MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

DRAFT FINAL PLANS
3/13/2020

ST. LOUIS COUNTY

SECTIONS 27, 29, 30, 31 & U.S. SURVEY NUMBERS 1930, 1953 & 2939, T45N, R6E
AND SECTION 36, T45N, R5E

DESIGN DESIGNATION

ROUTE 100

A.A.D.T. - 2020 = 30,100
A.A.D.T. - 2040 = 33,260
T = 10.9%
V = 40 M.P.H.
D = 50%/50%

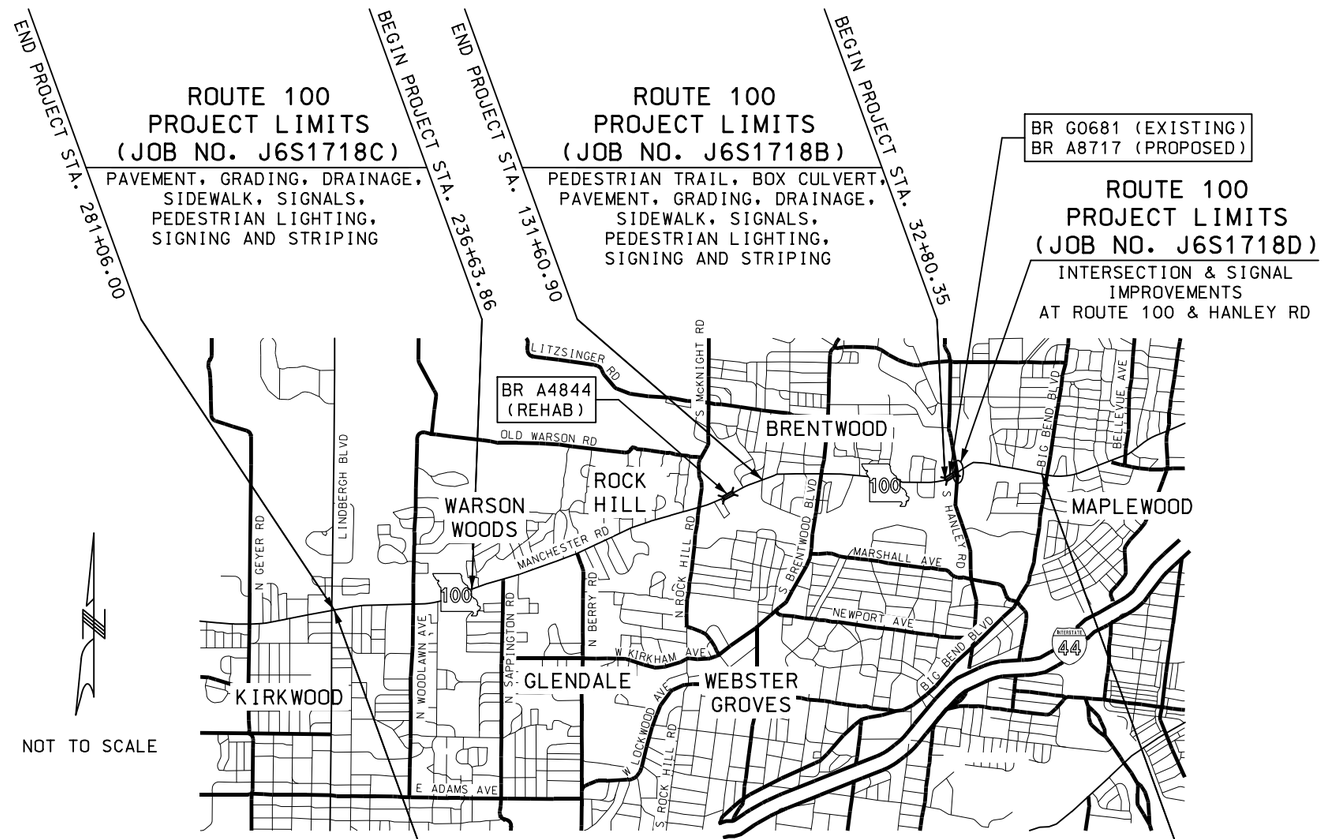
FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

NORMAL RIGHT OF WAY IS TO BE ACQUIRED FOR THIS PROJECT.

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
RETAINING WALL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
UNDERGROUND FIBER OPTIC CABLE	-FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
GAS	-G-	G
WATER	-W-	W
PIPES (CMP OR RCP)		
MANHOLE (SANITARY SEWER)	SAN	
MANHOLE (STORM SEWER)	STORM	
MANHOLE (TELEPHONE)	TMH	
GAS VALVE	GV	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
INLET	DI	
MANHOLE (NEW STORM)		
LIGHT POLE		
POWER POLE	PP	
POWER & LIGHT POLE	PPL	
GUY POLE	GUY	
TELEPHONE RISER	T RISER	
PULL BOX		
GROUND MOUNTED SIGN	SIGN	
FENCE (EXISTING)	-X-	
PED FENCE OR HANDRAIL (NEW)		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



ROUTE 100 - PROJECT LIMITS
(JOB NO. J6S1718)

PAVEMENT REHABILITATION AND WIDENING, CURB & GUTTER REPLACEMENT
GRADING, DRAINAGE, SIDEWALK, SIGNALS, LIGHTING, SIGNING, STRIPING,
BRIDGE REHABILITATION AND BRIDGE REPLACEMENT

DISCLAIMER

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THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

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LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 1+45.00	
END OF PROJECT	STA. 281+06.00	
APPARENT LENGTH (J6S1718)	27,961.00	FEET
BEGINNING OF PROJECT	STA. 32+80.35	
END OF PROJECT	STA. 131+60.90	
APPARENT LENGTH (J6S1718B)	9880.55	FEET
BEGINNING OF PROJECT	STA. 236+63.86	
END OF PROJECT	STA. 281+06.00	
APPARENT LENGTH (J6S1718C)	4,442.14	FEET

EQUATIONS AND EXCEPTIONS:

EQUATION: STA. 21+05.40 BK = STA. 21+04.55 AH (+0.85')
EQUATION: STA. 30+96.88 BK = STA. 30+99.00 AH (-2.12')
EQUATION: STA. 36+81.86 BK = STA. 36+80.40 AH (+1.46')
EQUATION: STA. 52+21.83 BK = STA. 52+23.24 AH (-1.41')
EQUATION: STA. 84+29.17 BK = STA. 118+09.65 AH (-3380.48')
EQUATION: STA. 201+10.00 BK = STA. 201+00.00 AH (+10.00')

TOTAL CORRECTIONS	-3,371.70	FEET
NET LENGTH OF PROJECT	24,589.30	FEET
STATE LENGTH (J6S1718)	4.657	MILES
TOTAL CORRECTIONS	-3,380.43	FEET
NET LENGTH OF PROJECT	6,500.12	FEET
STATE LENGTH (J6S1718B)	1.231	MILES
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	4,442.14	FEET
STATE LENGTH (J6S1718C)	0.841	MILES

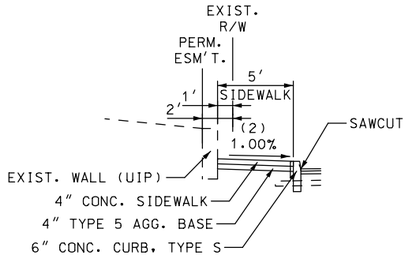
DATE PREPARED: 2/5/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 1
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B/C/D
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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TITLE SHEET



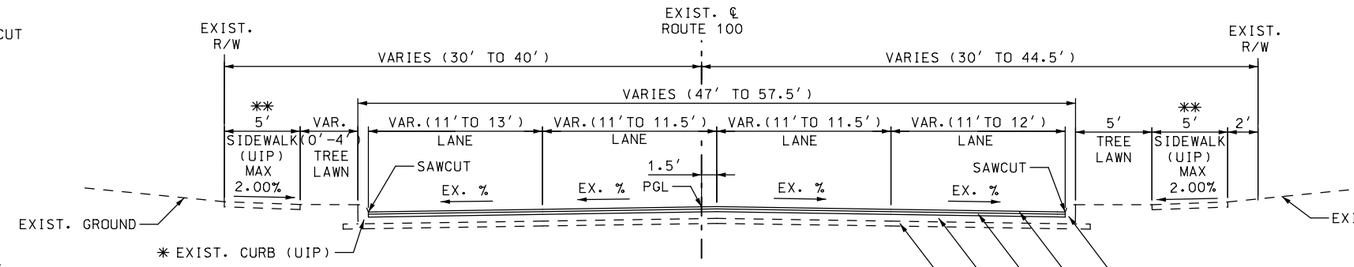
STA. 7+00.00 TO STA. 7+84.00

✳ REMOVE & REPLACE CURB AT THE FOLLOWING LOCATIONS ONLY:

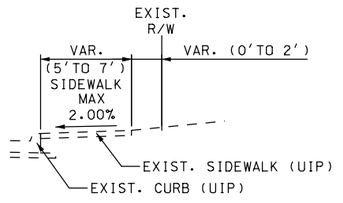
STA. 2+76.50 TO STA. 2+81.61
STA. 4+93.50 TO STA. 5+15.60
STA. 7+00.00 TO STA. 7+84.00 (SEE INSET)

✳✳ REMOVE & REPLACE SIDEWALK AT THE FOLLOWING LOCATIONS ONLY:

STA. 4+93.56 TO STA. 5+12.90
STA. 7+00.00 TO STA. 7+84.00 (SEE INSET)



1 TYPICAL SECTION ROUTE 100
STA. 1+45.00 TO STA. 13+00.00
(MARTINI DR TO BREDELL AVE)
STA. 18+50.00 TO STA. 21+50.00
(CIRCLE DR TO BARTOLD AVE)



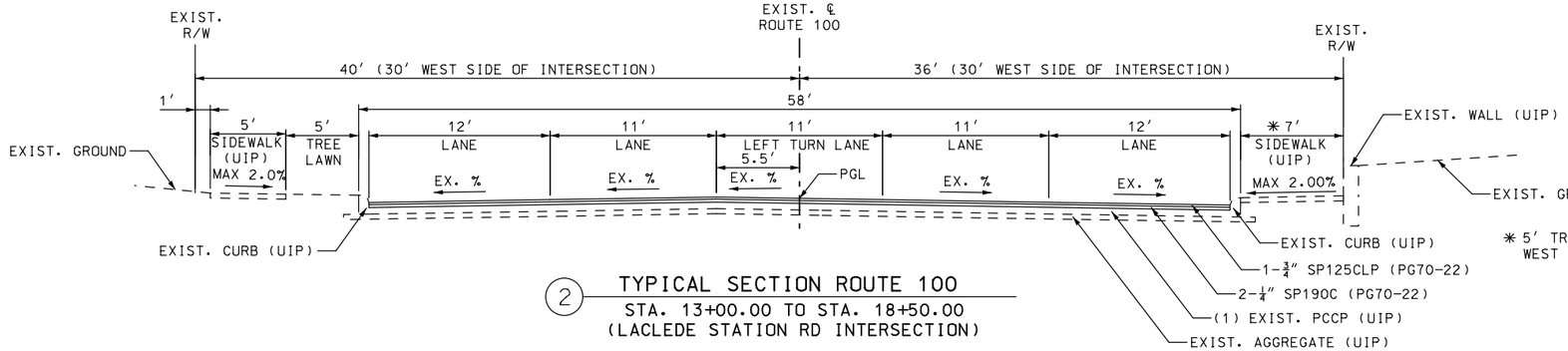
STA. 9+81.22 TO STA. 15+46.70
STA. 17+89.46 TO STA. 21+50.00

✳ REMOVE & REPLACE CURB AT THE FOLLOWING LOCATION ONLY:

STA. 1+70.24 TO STA. 1+77.59

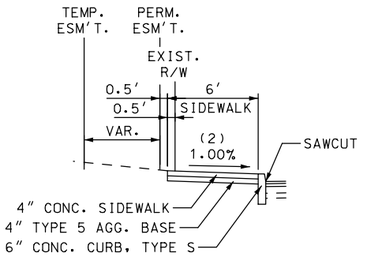
✳✳ REMOVE & REPLACE SIDEWALK AT THE FOLLOWING LOCATIONS ONLY:

STA. 6+50.00 TO STA. 7+80.00
STA. 10+74.96 TO STA. 10+86.96

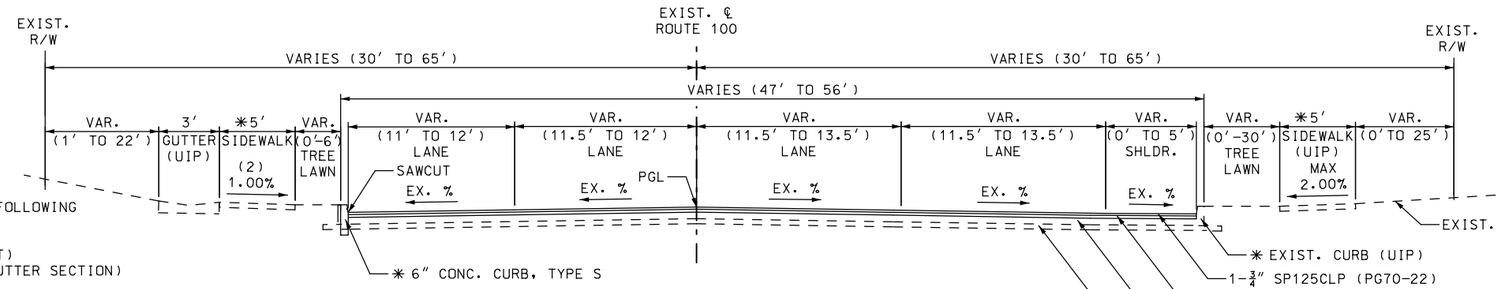


2 TYPICAL SECTION ROUTE 100
STA. 13+00.00 TO STA. 18+50.00
(LACLEDE STATION RD INTERSECTION)

✳ 5' TREE LAWN W/ 5' SIDEWALK WEST SIDE OF INTERSECTION (UIP)



STA. 22+40.00 TO STA. 23+87.00



3 TYPICAL SECTION ROUTE 100
STA. 21+50.00 TO STA. 28+50.00
(BARTOLD AVE TO EAST OF HANELY RD)

✳ REMOVE & REPLACE CURB & SIDEWALK AT THE FOLLOWING LOCATIONS ONLY:

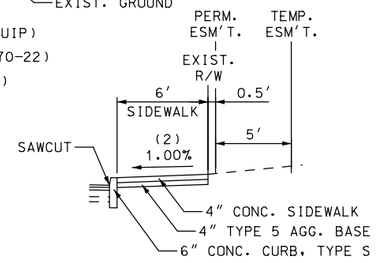
STA. 22+40.00 TO STA. 23+87.00 (SEE INSET)
STA. 25+31.50 TO STA. 25+51.20 (CURB & GUTTER SECTION)
STA. 26+18.08 TO STA. 26+33.20
STA. 26+33.20 TO STA. 29+15.00 (TYPE S CURB REPLACEMENT ONLY)

ASPHALT APPLICATION RATES	
SP125CLP (PG70-22)	1.927 TON/CY
SP190C (PG70-22)	1.940 TON/CY
BP-1 (PB64-22)	1.948 TON/CY
PMBB (PG64-22)	1.943 TON/CY
TACK COAT APPLICATION RATES	
EXIST. & NEW PAVEMENT SURFACES	0.20 GAL/SY
BETWEEN NEW ASPHALT LIFTS	0.05 GAL/SY

NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4" ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.



✳ REMOVE & REPLACE CURB & SIDEWALK AT THE FOLLLOWING LOCATION ONLY:

STA. 21+50.00 TO STA. 24+00.00

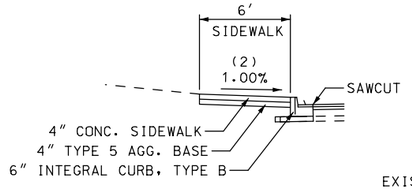
DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	2
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B/C
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REV.

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MISSOURI CERT. OF AUTHORITY: 001538

TYPICAL SECTIONS
ROUTE 100
SHEET 1 OF 14

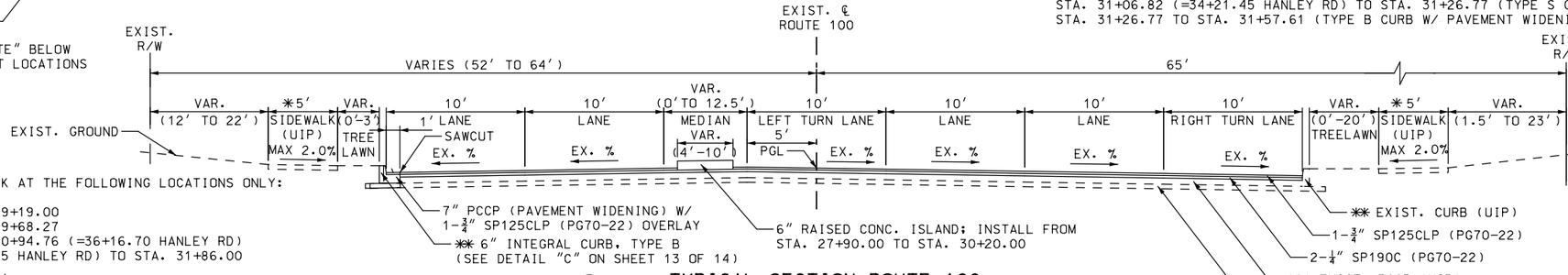


SEE STATION RANGE "NOTE" BELOW FOR SIDEWALK REPLACEMENT LOCATIONS

✳ REMOVE & REPLACE SIDEWALK AT THE FOLLOWING LOCATIONS ONLY:

STA. 28+99.00 TO STA. 29+19.00
STA. 29+60.00 TO STA. 29+68.27
STA. 30+00.00 TO STA. 30+94.76 (=36+16.70 HANLEY RD)
STA. 31+75.22 (=36+70.95 HANLEY RD) TO STA. 31+86.00

✳✳ BEGIN INTEGRAL CURB W/ 1′ PAVEMENT WIDENING AT STA. 29+15.00 (MATCH EXIST. CROSS SLOPE)



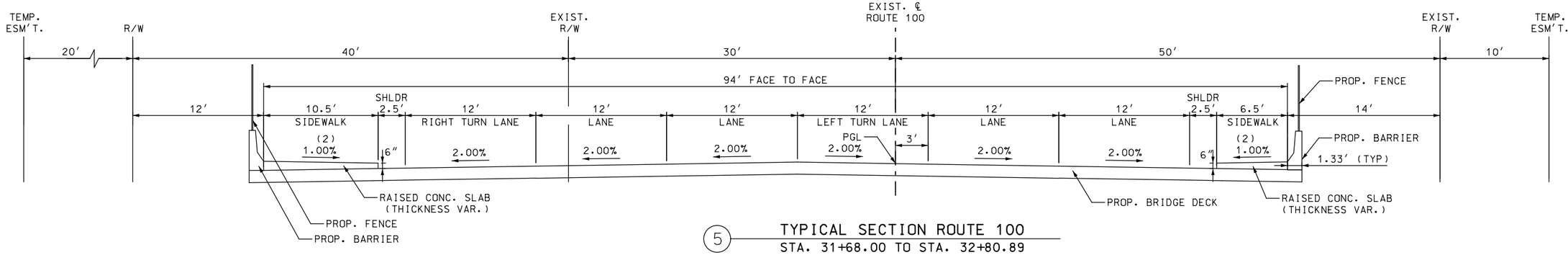
④ TYPICAL SECTION ROUTE 100
STA. 28+50.00 TO STA. 31+68.00
(HANLEY RD INTERSECTION)

✳ REMOVE & REPLACE SIDEWALK AT THE FOLLOWING LOCATIONS ONLY:

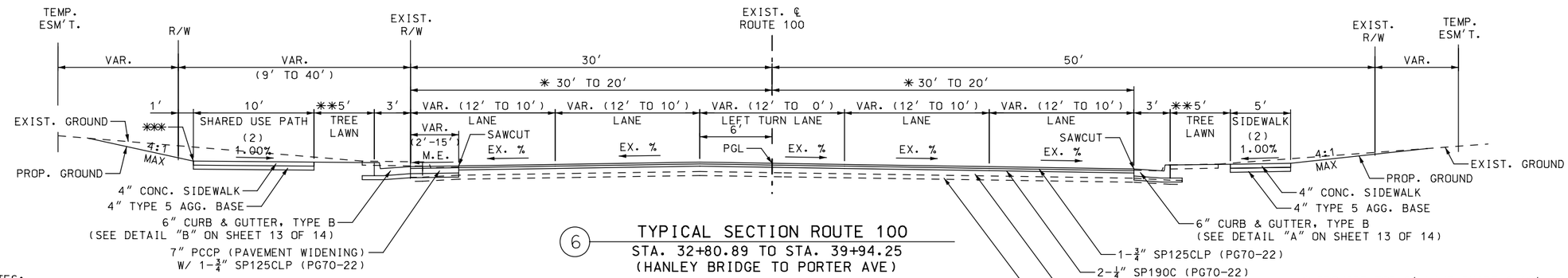
STA. 29+95.24 TO STA. 30+21.87 (=33+55.91 HANLEY RD)
STA. 31+06.82 (=34+21.45 HANLEY RD) TO STA. 31+57.61

✳✳ REMOVE & REPLACE CURB AT THE FOLLOWING LOCATIONS ONLY:

STA. 29+91.18 TO STA. 30+21.87 (=33+55.91 HANLEY RD) (TYPE B CURB W/ PAVEMENT WIDENING)
STA. 31+06.82 (=34+21.45 HANLEY RD) TO STA. 31+26.77 (TYPE S CURB)
STA. 31+26.77 TO STA. 31+57.61 (TYPE B CURB W/ PAVEMENT WIDENING)



⑤ TYPICAL SECTION ROUTE 100
STA. 31+68.00 TO STA. 32+80.89
(BRIDGE OVER BLACK CREEK)
(SEE BRIDGE PLANS FOR ADDITIONAL DETAILS)



⑥ TYPICAL SECTION ROUTE 100
STA. 32+80.89 TO STA. 39+94.25
(HANLEY BRIDGE TO PORTER AVE)

NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4" ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK AND SHARED USE PATH (PARALLEL TO ROUTE 100) HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION OF BOTH SIDEWALK AND SHARED USE PATH NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

✳✳ TRANSITION FROM 10′ SHARED USE PATH AT BACK OF CURB TO 3′ TREELAWN FROM STA. 34+00.00 TO STA. 34+15.08 & THEN TRANSITION TO 5′ TREELAWN BEGINNING AT STA. 35+00.18

✳✳✳ PROVIDE FOR MSE WALL (SEE DETAIL "L" ON SHEET 14 OF 14) STA. 35+98.44 TO STA. 36+92.50 (WALL NO. 1)

✳ PROVIDE FOR 6′ LANE SHIFT & 12′ TO 10′ LANE TAPER:
STA. 36+80.40 RT. TO STA. 39+80.40 RT.
STA. 35+00.00 LT. TO STA. 39+44.00 LT.

REMOVE PAVEMENT (RT.) FOR EXIST. RIGHT TURN LANE AT PORTER AVE (SEE PLANS FOR DETAILS)

✳✳ TRANSITION FROM 6′ SIDEWALK AT BACK OF CURB TO 5′ TREELAWN FROM STA. 33+16.60 TO STA. 33+49.85

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

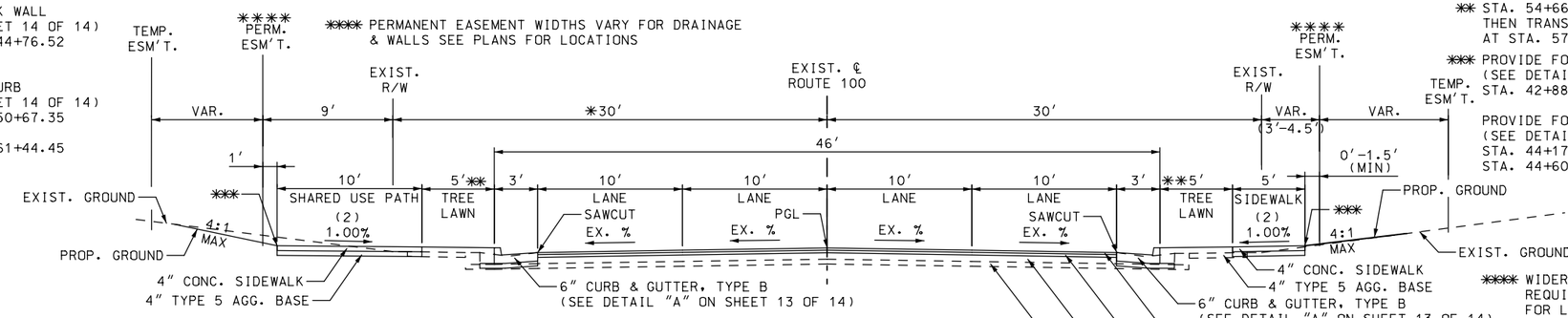
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TYPICAL SECTIONS
ROUTE 100
SHEET 2 OF 14

✱✱✱ PROVIDE FOR SMALL BLOCK WALL
(SEE DETAIL "J" ON SHEET 14 OF 14)
STA. 43+95.73 TO STA. 44+76.52
(WALL NO. 3)

PROVIDE FOR MODIFIED CURB
(SEE DETAIL "H" ON SHEET 14 OF 14)
STA. 50+46.18 TO STA. 50+67.35
(WALL NO. 6)
STA. 59+89.08 TO STA. 61+44.45
(WALL NO. 7)



✱ 40′ EXIST. R/W FROM STA. 56+58.75 TO STA. 63+69.89
(LILLIAN AVE TO BOMPART AVE)

✱✱ TAPER TREELAWN FROM 5′ TO 3′ FROM STA. 61+44.45 TO STA. 61+55.64 TO TRANSITION SHARED USE PATH TO BACK OF CURB (STA. 62+02.23 TO STA. 62+67.47). TRANSITION BACK TO 5′ TREELAWN (FROM 3′ TO 5′) STA. 63+12.46 TO STA. 63+26.25 (SEE TYPICAL SECTION DETAIL "24" ON SHEET 9 OF 14 FOR ADDITIONAL DETAILS REGARDING THIS LOCATION.)

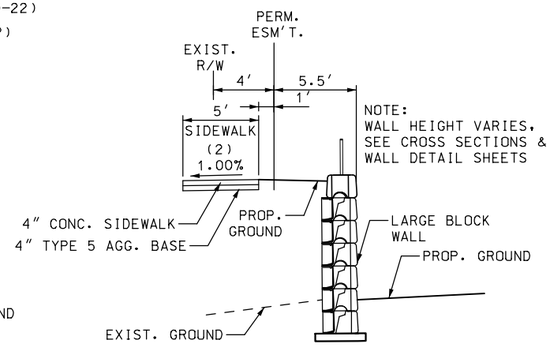
(7) TYPICAL SECTION ROUTE 100
STA. 39+94.25 TO STA. 62+70.00
(PORTER AVE TO MARY AVE)

✱✱ STA. 54+66.00 TO STA. 56+96.62 (3′ TREELAWN) THEN TRANSTION FROM 3′ BACK TO 5′ TREELAWN AT STA. 57+06.27; CONT. 5′ TREELAWN

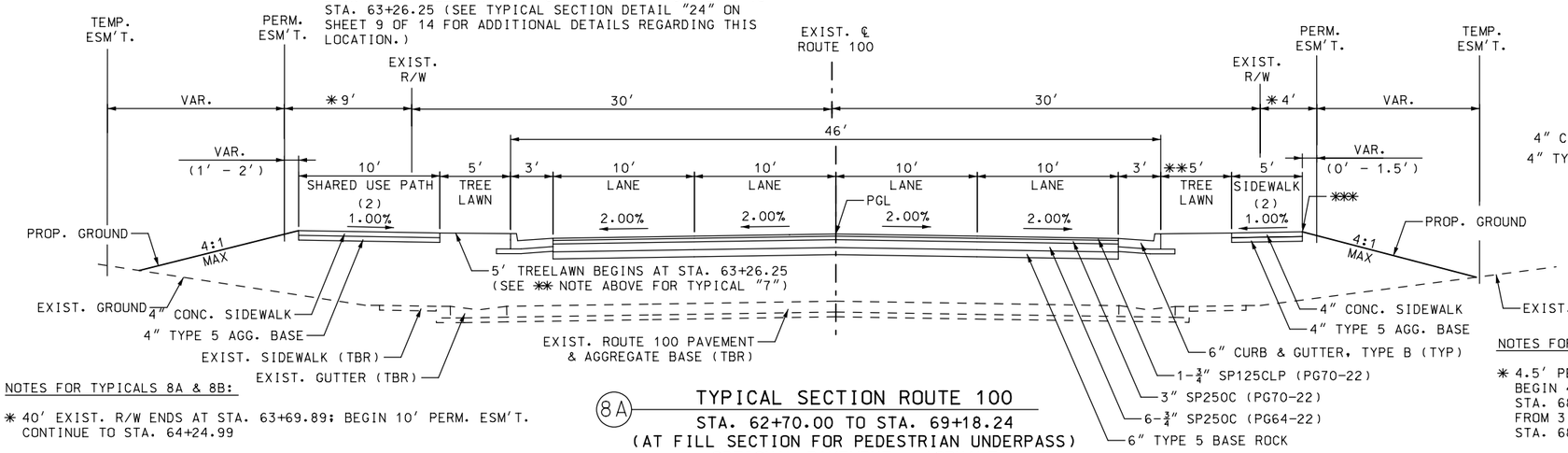
✱✱✱ PROVIDE FOR MSE WALL
(SEE DETAIL "L" ON SHEET 14 OF 14)
STA. 42+88.00 TO STA. 43+91.90 (WALL NO. 2)

PROVIDE FOR SMALL BLOCK WALLS
(SEE DETAIL "J" ON SHEET 14 OF 14)
STA. 44+17.55 TO STA. 44+24.22 (WALL NO. 4)
STA. 44+60.99 TO STA. 44+69.67 (WALL NO. 5)

✱✱✱✱ WIDER PERMANENT EASEMENT WIDTHS REQUIRED FOR DRAINAGE, SEE PLANS FOR LOCATIONS AND WIDTHS



STA. 65+53.47 TO STA. 65+84.11 (ROUTE 100)
(=STA. 5+91.57 ROGERS PARKWAY)



(8A) TYPICAL SECTION ROUTE 100
STA. 62+70.00 TO STA. 69+18.24
(AT FILL SECTION FOR PEDESTRIAN UNDERPASS)
OPTIONAL PAVEMENT - ASPHALT

NOTES FOR TYPICALS 8A & 8B:

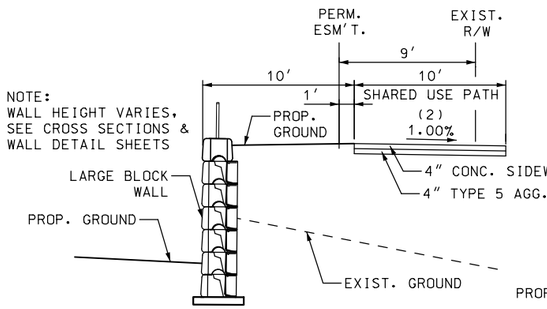
✱ 40′ EXIST. R/W ENDS AT STA. 63+69.89; BEGIN 10′ PERM. ESM'T. CONTINUE TO STA. 64+24.99

BEGIN 9′ PERM. ESM'T AT STA 66+08.78 CONTINUE TO STA. 68+80.05
(BEGIN VARIABLE WIDTH PERM. ESM'T.; SEE PLANS FOR DETAILS)

✱ 4.5′ PERM. ESM'T. FROM STA 62+70.00 TO STA 63+57.97 BEGIN 4′ PERM ESM'T. AT STA. 64+53.79; CONTINUE TO STA. 68+00.06 TRANSITION TO 3′ PERM. ESM'T. & TAPER FROM 3′ TO 2′ PERM. ESM'T. FROM STA. 68+00.06 TO STA. 68+40.06; CONTINUE 2′ PERM. ESM'T.

✱✱ TRANSITION FROM 5′ TO 3′ TREELAWN FROM STA. 68+00.00 TO STA. 68+80.00; CONTINUE 3′ TREELAWN

✱✱✱ PROVIDE FOR MSE WALL FROM STA. 68+36.91 TO STA. 68+46.47 (WALL NO. 8) (TIE TO EXIST. WALL)
(SEE DETAIL "L" ON SHEET 14 OF 14)

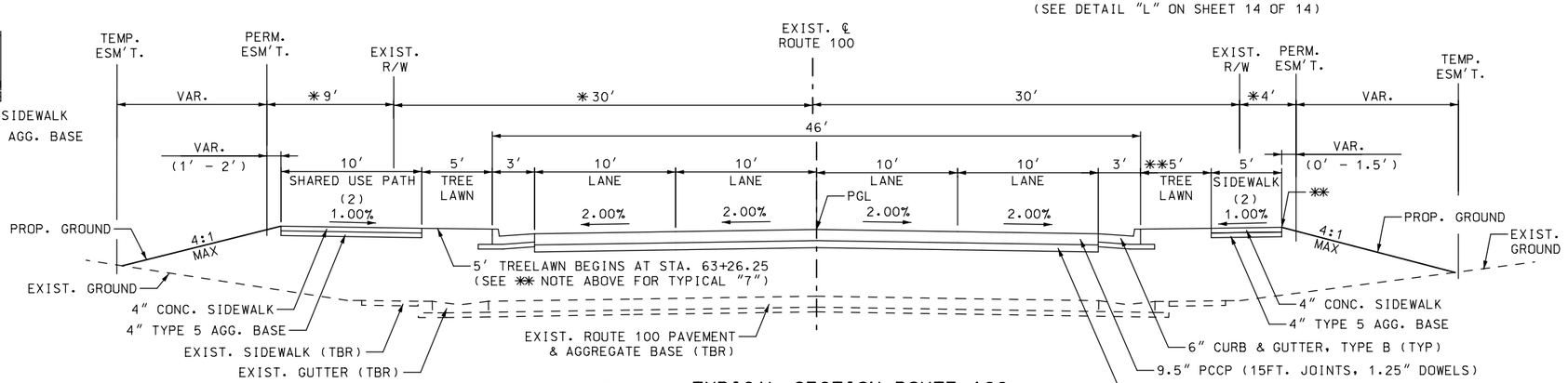


STA. 65+60.72 TO STA. 65+99.36 (ROUTE 100)
(=STA. 6+79.87 ROGERS PARKWAY)

NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4" ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK AND SHARED USE PATH (PARALLEL TO ROUTE 100) HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION OF BOTH SIDEWALK AND SHARED USE PATH NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.



(8B) TYPICAL SECTION ROUTE 100
STA. 62+70.00 TO STA. 69+18.24
(AT FILL SECTION FOR PEDESTRIAN UNDERPASS)
OPTIONAL PAVEMENT - CONCRETE

DATE PREPARED: 3/13/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 2
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B/C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

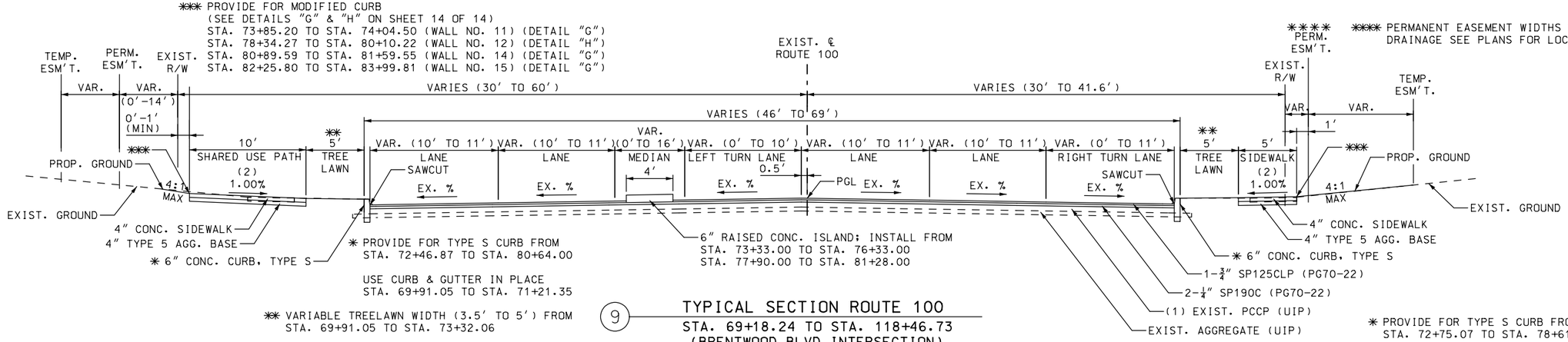
DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TYPICAL SECTIONS
ROUTE 100
SHEET 3 OF 14

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(9) TYPICAL SECTION ROUTE 100
STA. 69+18.24 TO STA. 118+46.73
(BRENTWOOD BLVD INTERSECTION)

✱✱ VARIABLE TREELAWN WIDTH (3.5' TO 5') FROM STA. 69+91.05 TO STA. 73+32.06

10' SHARED USE PATH AT BACK OF CURB FROM STA. 75+76.00 TO STA 80+18.00

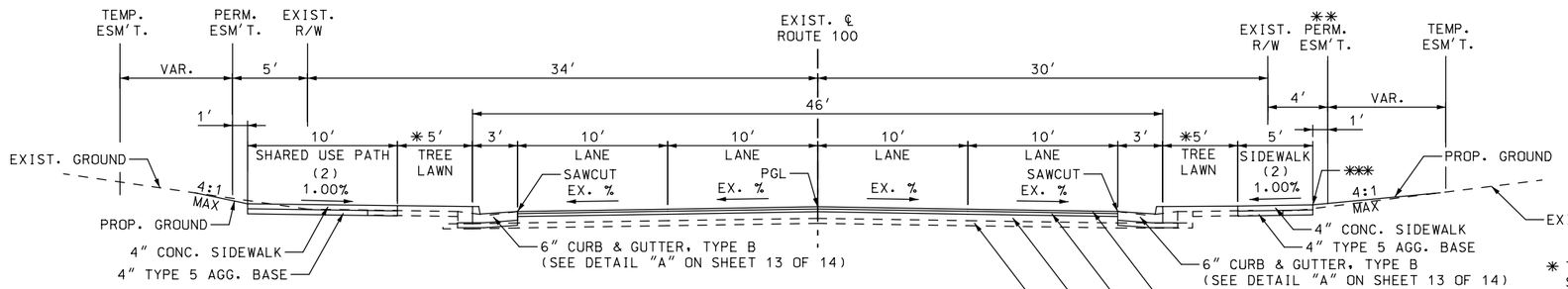
VARIABLE TREELAWN WIDTH (1' TO 9.2') FROM STA. 80+49.00 TO STA. 83+67.23

TRANSITION 10' SHARED USE PATH TO BACK OF CURB AT STA 83+67.23

✱✱ STA. 68+80.00 TO STA. 70+19.64 (3' TREELAWN) TAPER TREELAWN FROM 3' TO 5' FROM STA. 70+19.64 TO STA. 71+25.94; BEGIN 5' TREELAWN

✱✱✱ PROVIDE FOR MODIFIED CURB
(SEE DETAIL "G" ON SHEET 14 OF 14)
STA. 70+09.49 TO STA. 70+22.30 (WALL NO. 9)
STA. 70+53.59 TO STA. 70+93.64 (WALL NO. 10)

PROVIDE FOR SMALL BLOCK WALL W/ PED HANDRAIL AND 1' PAVED TREELAWN (SEE DETAIL "K" ON SHEET 14 OF 14)
STA. 79+61.14 TO STA. 80+61.86 (WALL NO. 13)



(10) TYPICAL SECTION ROUTE 100
STA. 118+46.73 TO STA. 131+35.37
(ANNALEE AVE TO BREMERTON RD)

✱ PROVIDE FOR 10' SHARED USE PATH AT BACK OF CURB FROM STA. 83+67.23 TO STA. 122+03.50 WITHIN EXIST. R/W; TRANSITION TO 5' TREELAWN

✱ TRANSITION TREELAWN FROM 5' TO 3' FROM STA. 130+36.20 TO STA. 130+44.20

✱✱ PROVIDE FOR 15' PERMANENT EASEMENT FROM STA. 127+03.42 TO STA. 130+68.59 FOR DRAINAGE & WALL

✱✱✱ PROVIDE FOR SMALL BLOCK WALL
(SEE DETAIL "J" ON SHEET 14 OF 14)
STA. 129+98.47 TO STA. 130+30.86 (WALL NO. 16)

✱✱ 6' SIDEWALK AT BACK OF CURB WITH 3' PERMANENT DRAINAGE EASEMENT FROM BREMERTON TO CREVE COEUR.

EAST SIDE OF RARITAN TAPER FROM 7.5' TO 4' TREELAWN FROM STA. 145+53.75 TO STA. 145+88.68; BEGIN 6' SIDEWALK AT BACK OF CURB AT STA. 146+47.33

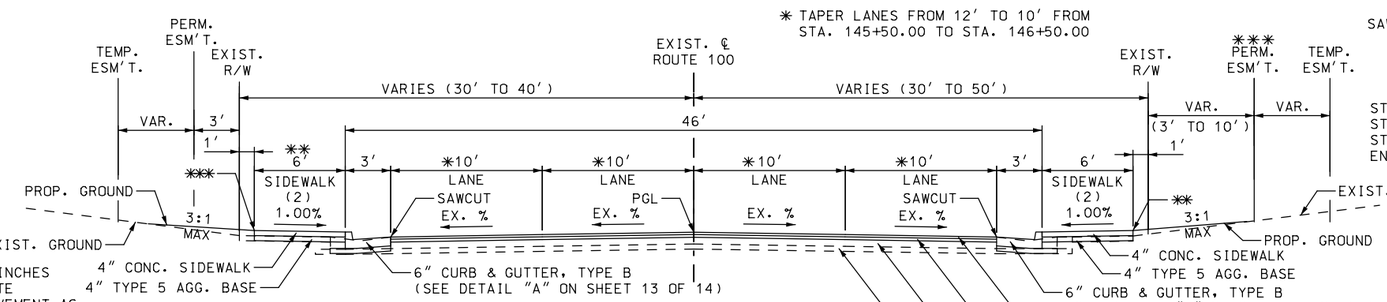
✱✱✱ PROVIDE FOR MODIFIED CURB
(SEE DETAIL "G" ON SHEET 14 OF 14)
STA. 147+11.50 TO STA. 147+37.50
(WALL NO. 17)

PROVIDE FOR MSE WALL
(SEE DETAIL "L" ON SHEET 14 OF 14)
STA. 150+28.71 TO STA. 150+36.65
(WALL NO. 20)

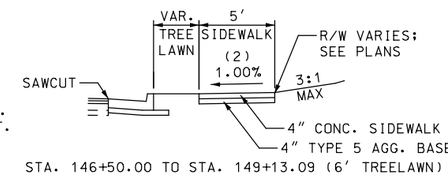
NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4" ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK AND SHARED USE PATH (PARALLEL TO ROUTE 100) HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION OF BOTH SIDEWALK AND SHARED USE PATH NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.



(11) TYPICAL SECTION ROUTE 100
STA. 131+35.37 TO STA. 136+98.00
(BREMERTON RD TO CREVE COEUR DR)
STA. 145+51.60 TO STA. 150+00.00
(RARITAN DR TO EAST OF MCKNIGHT)



STA. 146+50.00 TO STA. 149+13.09 (6' TREELAWN)
STA. 149+23.09 TO STA. 149+92.81 (2.15' TREELAWN)
STA. 150+00.76 TO STA. 150+97.84 (3.5' TREELAWN)
END SIDEWALK IMPROVEMENTS AT STA. 150+97.84

✱✱ PROVIDE FOR SMALL BLOCK WALLS
(SEE DETAIL "J" ON SHEET 14 OF 14)
STA. 148+32.87 TO STA. 148+51.03 (WALL NO. 18)
STA. 149+83.53 TO STA. 149+83.96 (WALL NO. 19)

✱✱✱ PERMANENT EASEMENT WIDTHS VARY FOR DRAINAGE SEE PLANS FOR LOCATIONS

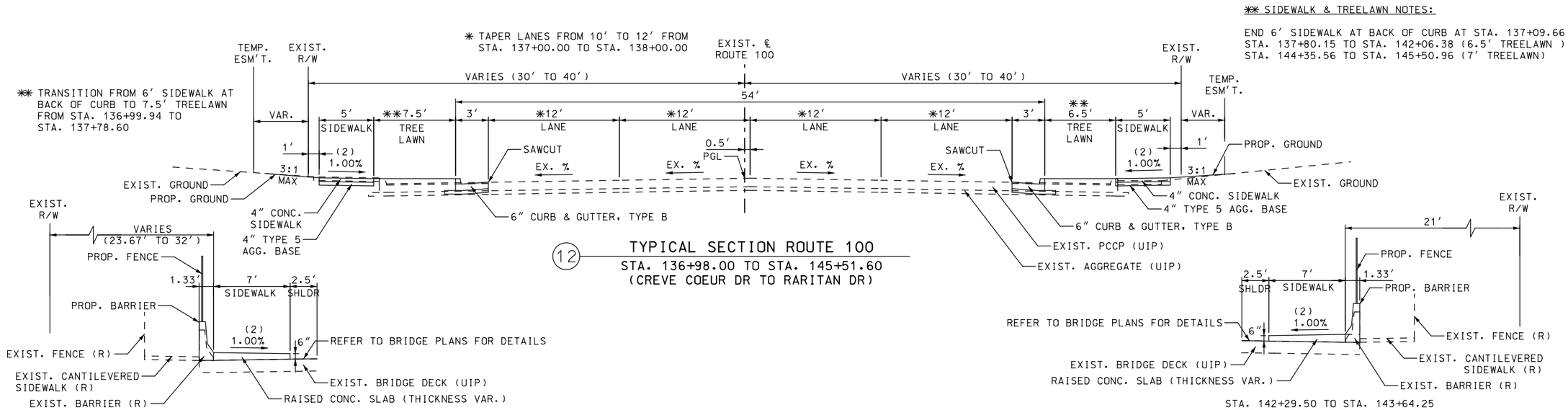
DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

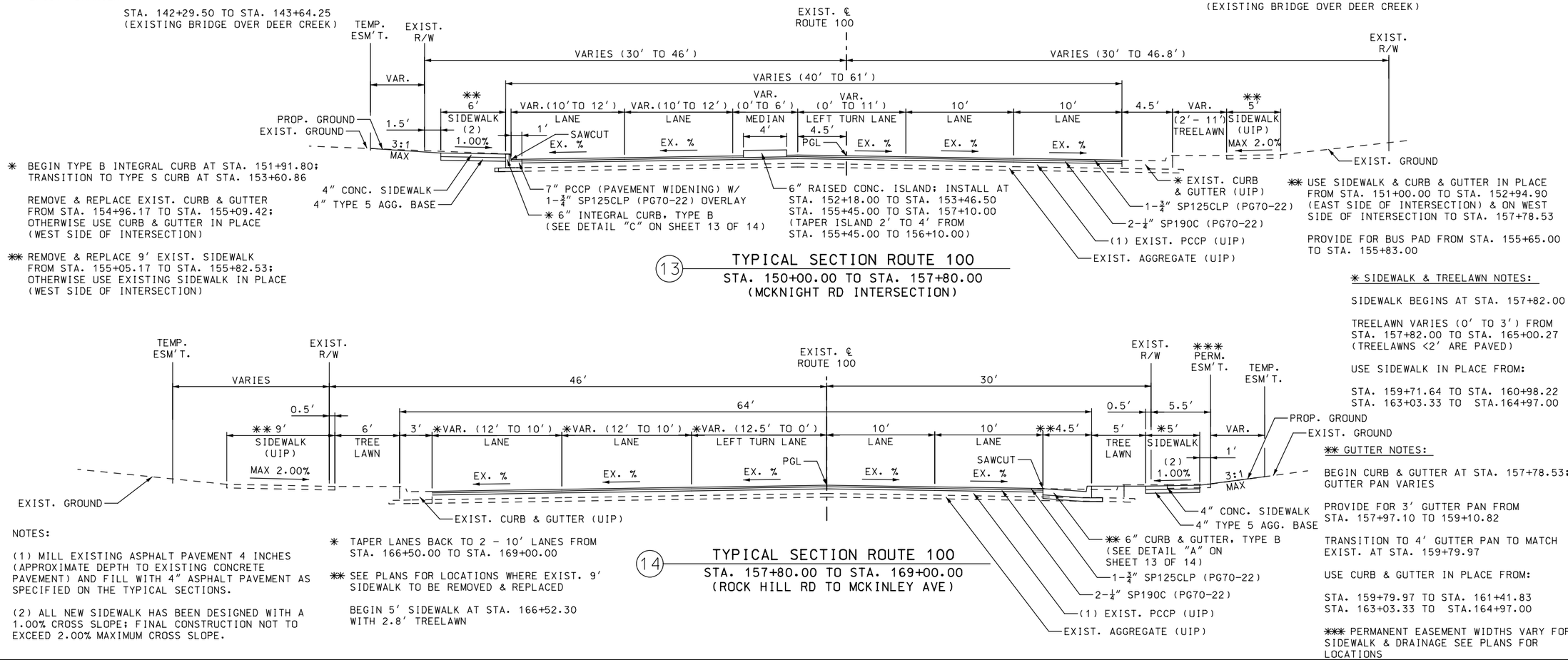
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TYPICAL SECTIONS
ROUTE 100
SHEET 4 OF 14



12 TYPICAL SECTION ROUTE 100
STA. 136+98.00 TO STA. 145+51.60
(CREVE COEUR DR TO RARITAN DR)



✱ BEGIN TYPE B INTEGRAL CURB AT STA. 151+91.80; TRANSITION TO TYPE S CURB AT STA. 153+60.86

REMOVE & REPLACE EXIST. CURB & GUTTER FROM STA. 154+96.17 TO STA. 155+09.42; OTHERWISE USE CURB & GUTTER IN PLACE (WEST SIDE OF INTERSECTION)

✱✱ REMOVE & REPLACE 9′ EXIST. SIDEWALK FROM STA. 155+05.17 TO STA. 155+82.53; OTHERWISE USE EXISTING SIDEWALK IN PLACE (WEST SIDE OF INTERSECTION)

✱✱ USE SIDEWALK & CURB & GUTTER IN PLACE FROM STA. 151+00.00 TO STA. 152+94.90 (EAST SIDE OF INTERSECTION) & ON WEST SIDE OF INTERSECTION TO STA. 157+78.53

PROVIDE FOR BUS PAD FROM STA. 155+65.00 TO STA. 155+83.00

13 TYPICAL SECTION ROUTE 100
STA. 150+00.00 TO STA. 157+80.00
(MCKNIGHT RD INTERSECTION)

NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4″ ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

✱ TAPER LANES BACK TO 2 - 10′ LANES FROM STA. 166+50.00 TO STA. 169+00.00

✱✱ SEE PLANS FOR LOCATIONS WHERE EXIST. 9′ SIDEWALK TO BE REMOVED & REPLACED

BEGIN 5′ SIDEWALK AT STA. 166+52.30 WITH 2.8′ TREELAWN

14 TYPICAL SECTION ROUTE 100
STA. 157+80.00 TO STA. 169+00.00
(ROCK HILL RD TO MCKINLEY AVE)

✱✱ SIDEWALK & TREELAWN NOTES:

SIDEWALK BEGINS AT STA. 157+82.00

TREELAWN VARIES (0′ TO 3′) FROM STA. 157+82.00 TO STA. 165+00.27 (TREELAWNS <2′ ARE PAVED)

USE SIDEWALK IN PLACE FROM:

STA. 159+71.64 TO STA. 160+98.22
STA. 163+03.33 TO STA.164+97.00

✱✱ GUTTER NOTES:

BEGIN CURB & GUTTER AT STA. 157+78.53; GUTTER PAN VARIES

PROVIDE FOR 3′ GUTTER PAN FROM STA. 157+97.10 TO 159+10.82

TRANSITION TO 4′ GUTTER PAN TO MATCH EXIST. AT STA. 159+79.97

USE CURB & GUTTER IN PLACE FROM:

STA. 159+79.97 TO STA. 161+41.83
STA. 163+03.33 TO STA.164+97.00

✱✱✱ PERMANENT EASEMENT WIDTHS VARY FOR SIDEWALK & DRAINAGE SEE PLANS FOR LOCATIONS

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
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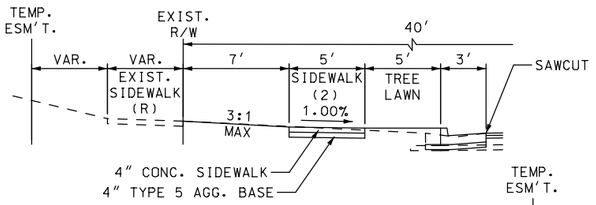
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TYPICAL SECTIONS
ROUTE 100
SHEET 5 OF 14

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STA. 181+39.99 TO STA. 189+69.48
(KORTWRIGHT AVE TO TAVALON AVE)

✳ SIDEWALK & TREELAWN NOTES:

6' TREELAWN FROM STA. 169+16.18 TO STA. 170+83.00

3' TREELAWN FROM STA. 170+96.08 TO STA. 181+39.16

5' TREELAWN FROM STA. 181+49.16 TO STA. 189+53.50

6' SIDEWALK AT BACK OF CURB FROM STA. 189+57.50 TO STA. 194+00.83

✳ SIDEWALK & TREELAWN NOTES:

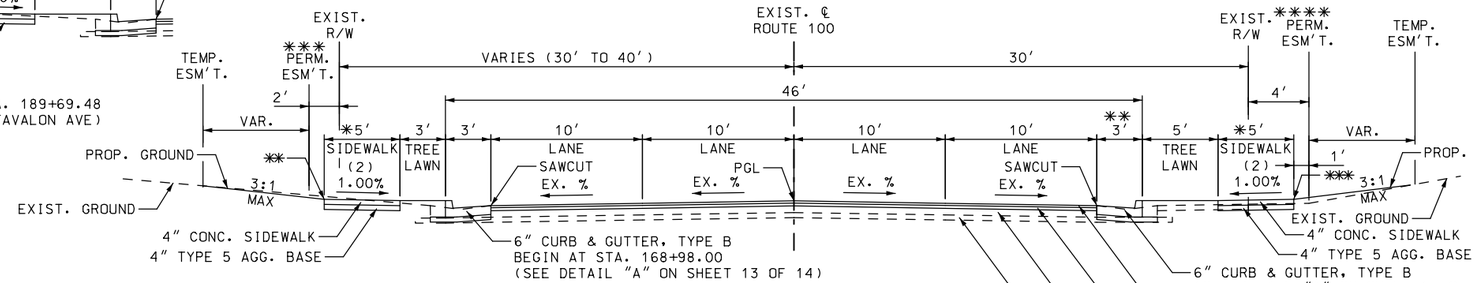
REMOVE & REPLACE SIDEWALK AND CURB & GUTTER FROM STA. 194+57.10 TO STA. 195+24.50

USE SIDEWALK AND CURB & GUTTER IN PLACE FROM STA. 195+24.50 TO STA. 195+95.79

PROVIDE FOR 6' SIDEWALK AT BACK OF CURB FROM STA. 196+06.00 TO STA. 198+23.60; TRANSITION TO 3' TREELAWN

✳✳ PROVIDE FOR SMALL BLOCK WALL (SEE DETAIL "K" ON SHEET 14 OF 14) STA. 199+36.17 TO STA. 199+99.01 (WALL NO. 26)

✳✳✳ SEE PLANS FOR PERM. ESM'T. LOCATIONS; WIDTHS VARY FOR SIDEWALK, DRAINAGE AND WALLS



✳✳ PROVIDE FOR MSE WALL
(SEE DETAIL "L" ON SHEET 14 OF 14)
STA. 179+70.00 TO STA. 181+38.66 (WALL NO. 23)

✳✳✳ PERMANENT EASEMENT WIDTHS VARY FOR SIDEWALK, DRAINAGE & WALLS SEE PLANS FOR LOCATIONS

(15) TYPICAL SECTION ROUTE 100
STA. 169+00.00 TO STA. 193+00.00
(MCKINLEY AVE TO FAIRDALE AVE)

✳ SIDEWALK & TREELAWN NOTES:

USE SIDEWALK IN PLACE FROM STA. 170+37.50 TO STA. 171+17.75

7.5' TREELAWN FROM STA. 171+17.75 TO STA. 171+46.52

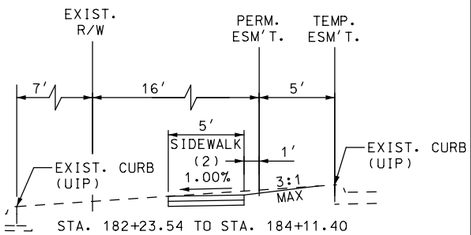
3' TREELAWN FROM STA. 171+66.39 TO STA. 176+61.61

TAPER TREELAWN (8' TO 5') FROM STA. 176+76.41 TO STA. 178+18.82

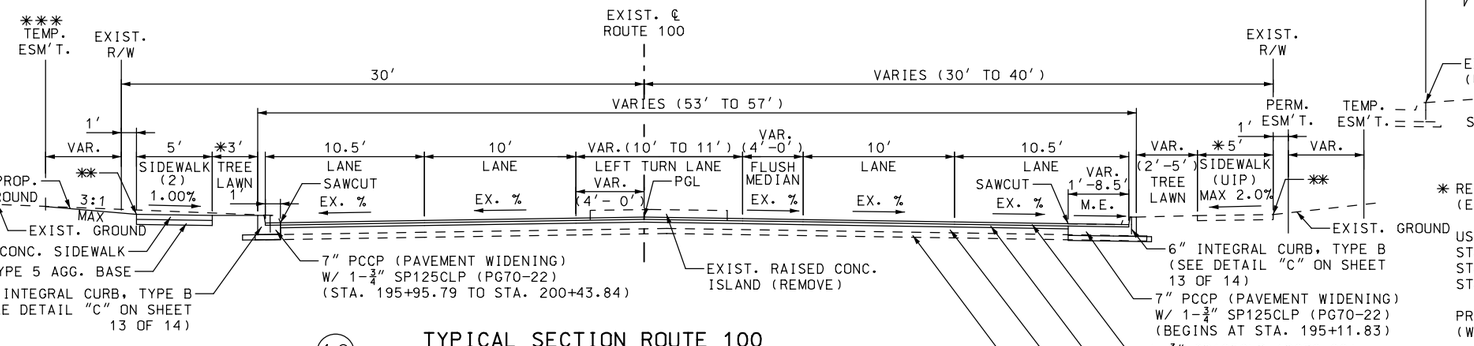
BEGIN 6' SIDEWALK AT BACK OF CURB AT STA. 190+09.78

✳✳ TRANSITION FROM 4.5' CURB & GUTTER BACK TO STANDARD 3' AT STA. 171+27.77

USE CURB & GUTTER IN PLACE FROM STA. 182+32.78 TO STA. 184+78.50



STA. 182+23.54 TO STA. 184+11.40



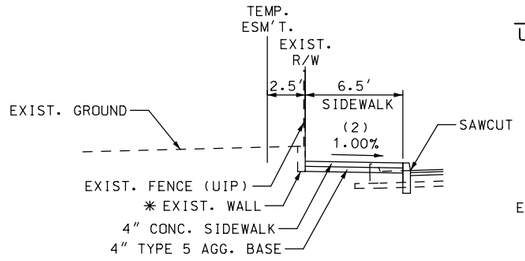
✳ REMOVE & REPLACE PORTIONS OF SIDEWALK (EAST SIDE OF INTERSECTION)

USE EXISTING SIDEWALK IN PLACE FROM STA. 198+38.92 TO STA. 199+66.65
STA. 198+85.03 TO STA. 199+95.19
STA. 200+57.59 TO STA. 201+87.40

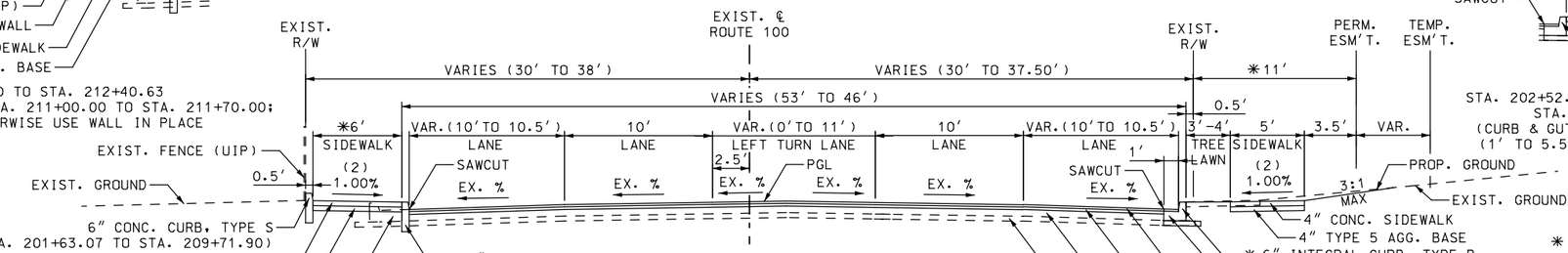
PROVIDE FOR 6' SIDEWALK AT BACK OF CURB (WEST SIDE OF INTERSECTION)

✳✳ PROVIDE FOR MODIFIED CURB
(SEE DETAIL "H" ON SHEET 14 OF 14)
STA. 194+51.53 TO STA. 194+70.05 (WALL NO. 25)

(16) TYPICAL SECTION ROUTE 100
STA. 193+00.00 TO STA. 202+00.00
(BERRY RD INTERSECTION - WEST SIDE OF INTERSECTION)
USE EXISTING LANE CONFIGURATION IN PLACE - EAST SIDE OF INTERSECTION
5 - 10' LANES WITH 6' MEDIAN (SEE PLANS FOR DETAILS)
INSTALL 4' WIDE - 6" RAISED CONC. ISLAND FROM
STA. 195+43.00 TO STA. 197+10.00



STA. 209+71.90 TO STA. 212+40.63
✳ RECONSTRUCT WALL FROM STA. 211+00.00 TO STA. 211+70.00; (WALL NO. 27) OTHERWISE USE WALL IN PLACE



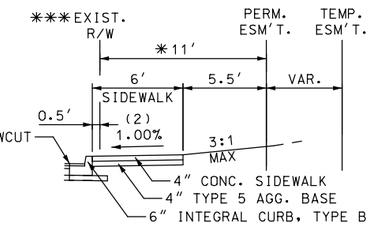
NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4" ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

(17) TYPICAL SECTION ROUTE 100
STA. 202+00.00 TO STA. 218+50.00
(SALEM HILLS TO ANDREW DR)

✳ BEGIN CURB & GUTTER AT STA. 212+92.75; USE CURB & GUTTER AND SIDEWALK IN PLACE FROM STA. 215+19.49 TO STA. 216+70.50



STA. 202+52.00 TO STA. 206+66.31 (CURB SECTION)
STA. 213+30.72 TO STA. 214+90.58
(CURB & GUTTER SECTION; ✳✳✳ EXIST. R/W VARIES (1' TO 5.5') AT BACK OF SIDEWALK, SEE PLANS)

✳ PROVIDE FOR 11' PERMANENT DRAINAGE EASEMENT FROM STA. 202+50.80 TO STA. 209+30.00; CONT. PERMANENT EASEMENT, WIDTH VARIES (1' TO 20')

✳✳ USE EXISTING CURB IN PLACE FROM STA. 210+81.00 TO STA. 212+44.00

BEGIN CURB & GUTTER AT STA. 213+23.65

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
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TYPICAL SECTIONS
ROUTE 100
SHEET 6 OF 14

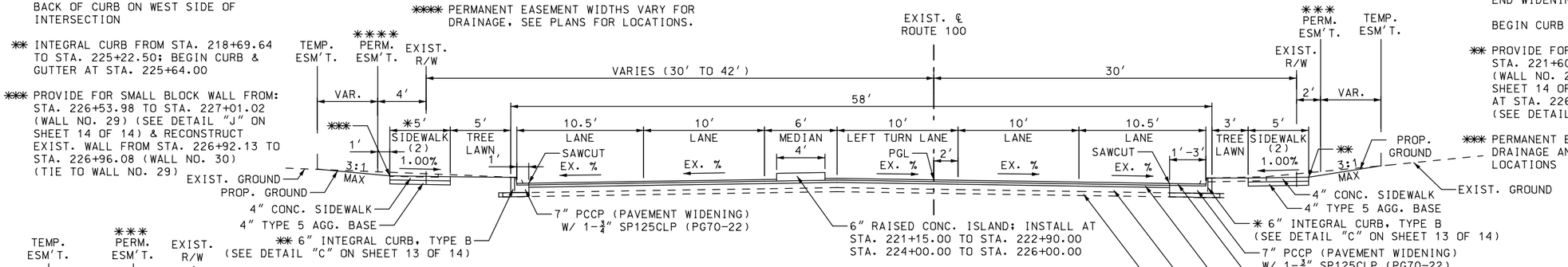
REV.

✳ TRANSITION FROM 6′ SIDEWALK AT BACK OF CURB TO 5′ SIDEWALK W/ 5′ TREELAWN AT STA. 218+95.70: TRANSITION BACK TO 6′ SIDEWALK AT BACK OF CURB ON WEST SIDE OF INTERSECTION

✳✳ INTEGRAL CURB FROM STA. 218+69.64 TO STA. 225+22.50; BEGIN CURB & GUTTER AT STA. 225+64.00

✳✳✳ PROVIDE FOR SMALL BLOCK WALL FROM: STA. 226+53.98 TO STA. 227+01.02 (WALL NO. 29) (SEE DETAIL "J" ON SHEET 14 OF 14) & RECONSTRUCT EXIST. WALL FROM STA. 226+92.13 TO STA. 226+96.08 (WALL NO. 30) (TIE TO WALL NO. 29)

✳✳✳✳ PERMANENT EASEMENT WIDTHS VARY FOR DRAINAGE, SEE PLANS FOR LOCATIONS.



(18) TYPICAL SECTION ROUTE 100
STA. 218+50.00 TO STA. 228+00.00
(SAPPINGTON RD INTERSECTION)

✳ END CURB & GUTTER AT STA. 219+44.60

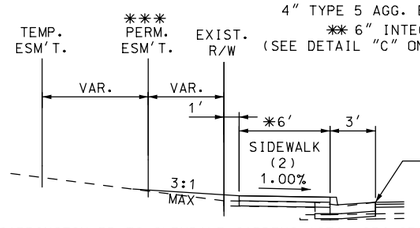
BEGIN INTEGRAL CURB AT STA. 220+10.59

END WIDENING AT STA. 222+70.00

BEGIN CURB & GUTTER AT STA. 227+21.61

✳✳ PROVIDE FOR SMALL BLOCK WALLS FROM: STA. 221+60.00 TO STA. 222+88.37 (WALL NO. 28) (SEE DETAIL "K" ON SHEET 14 OF 14) & AT ENTRANCE AT STA. 226+73.50 (WALL NO. 31) (SEE DETAIL "J" ON SHEET 14 OF 14)

✳✳✳ PERMANENT EASEMENT WIDTHS VARY FOR DRAINAGE AND WALLS, SEE PLANS FOR LOCATIONS



SAPPINGTON RD TO GLENDALE GARDENS (STA. 234+65.81)

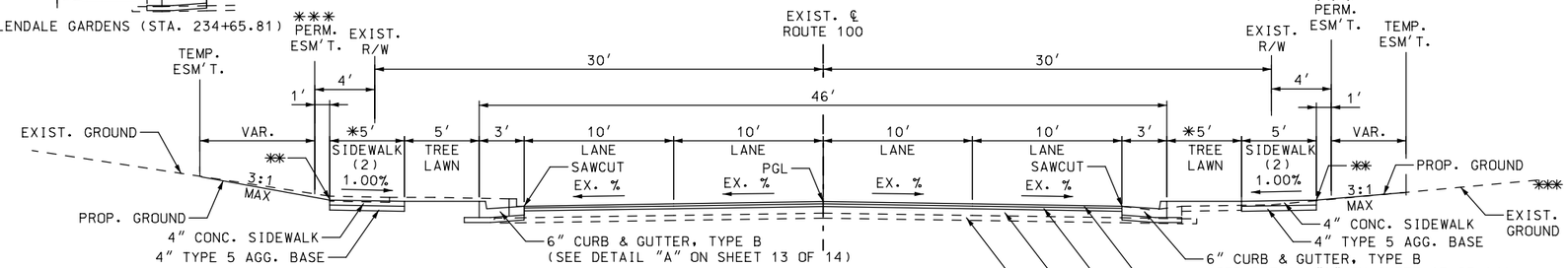
✳ TRANSITION FROM 3′ TO 5′ TREELAWN AT STA. 236+63.86 (BEGIN PROJECT J6S1718C)

✳✳ PROVIDE FOR MODIFIED CURB (SEE DETAIL "G" ON SHEET 14 OF 14) STA. 228+20.00 TO STA. 229+78.80 (WALL NO. 32) STA. 230+19.97 TO STA. 231+10.00 (WALL NO. 34)

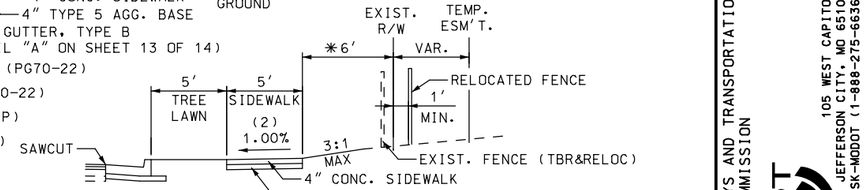
PROVIDE FOR SMALL BLOCK WALL (SEE DETAIL "J" ON SHEET 14 OF 14) STA. 244+19.50 TO STA. 244+51.50 (WALL NO. 36)

PROVIDE FOR MSE WAL (SEE DETAIL "L" ON SHEET 14 OF 14) STA. 230+19.04 TO STA. 230+19.23 (WALL NO. 33) (TIE TO MODIFIED CURB WALL NO. 34)

✳✳✳ PERMANENT EASEMENT WIDTHS VARY FOR DRAINAGE, SEE PLANS FOR LOCATIONS



(19) TYPICAL SECTION ROUTE 100
STA. 228+00.00 TO STA. 248+18.48
(BENNETT AVE TO DICKSON ST)



STA. 255+54.65 TO STA. 264+34.32
(RELOCATE FENCE FROM STA. 301+01.00 (WOODLAWN) TO STA. 264+34.32 (ROUTE 100)
(✳ 6′ EXIST. R/W ENDS AT STA. 258+91.21; TAPERS TO 1′ AT STA. 262+73.58)

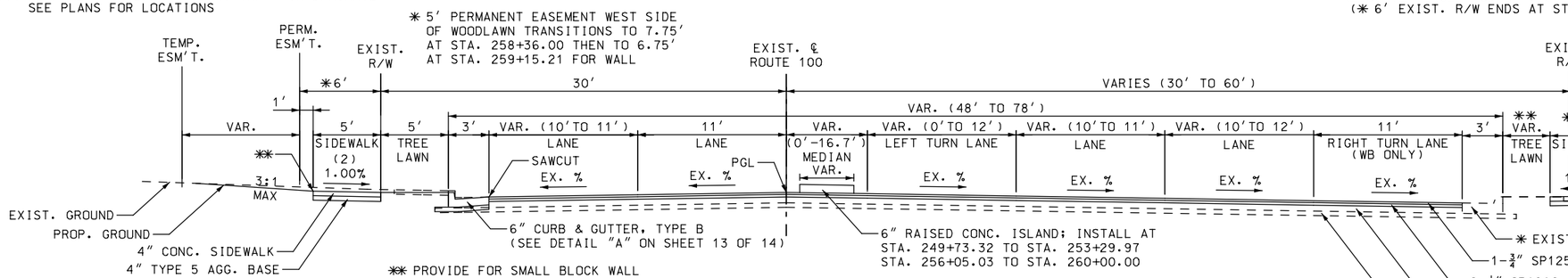
✳ TRANSITION FROM 6′ SIDEWALK AT BACK OF CURB TO 5′ SIDEWALK W/ 5′ TREELAWN AT STA. 234+65.81

✳✳ PROVIDE FOR SMALL BLOCK WALL (SEE DETAIL "K" ON SHEET 14 OF 14) STA. 236+55.06 TO STA. 236+59.67 (WALL NO. 35)

PROVIDE FOR MODIFIED CURB (SEE DETAIL "G" ON SHEET 14 OF 14) STA. 247+34.49 TO STA. 247+49.72 (WALL NO. 37)

✳✳✳ PERMANENT EASEMENT WIDTHS VARY FOR DRAINAGE, SEE PLANS FOR LOCATIONS

✳ 5′ PERMANENT EASEMENT WEST SIDE OF WOODLAWN TRANSITIONS TO 7.75′ AT STA. 258+36.00 THEN TO 6.75′ AT STA. 259+15.21 FOR WALL



(20) TYPICAL SECTION ROUTE 100
STA. 248+18.48 TO STA. 263+65.00
(WOODLAWN AVE INTERSECTION)

NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4" ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

✳✳ PROVIDE FOR SMALL BLOCK WALL (SEE DETAIL "K" ON SHEET 14 OF 14) STA. 248+27.85 TO STA. 248+71.55 (WALL NO. 38) STA. 248+98.35 TO STA. 249+21.12 (WALL NO. 39) STA. 258+39.50 TO STA. 259+19.49 (WALL NO. 44) STA. 259+54.51 TO STA. 260+38.00 (WALL NO. 45) STA. 260+73.00 TO STA. 263+23.34 (WALL NO. 46) TRANSITION TO TYPE "J" WALL AT STA. 261+77.88

PROVIDE FOR MODIFIED CURB (SEE DETAIL "G" ON SHEET 14 OF 14) STA. 252+30.00 TO STA. 252+96.49 (WALL NO. 40) STA. 253+27.50 TO STA. 254+32.85 (WALL NO. 41)

✳ USE CURB & GUTTER IN PLACE FROM STA. 250+30.00 TO STA. 251+21.00 STA. 251+39.00 TO STA. 253+64.55

✳✳ TREELAWN VARIES FROM 3′ TO 5′ EAST SIDE OF WOODLAWN AVENUE

5′ TREELAWN WEST SIDE OF WOODLAWN

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
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COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

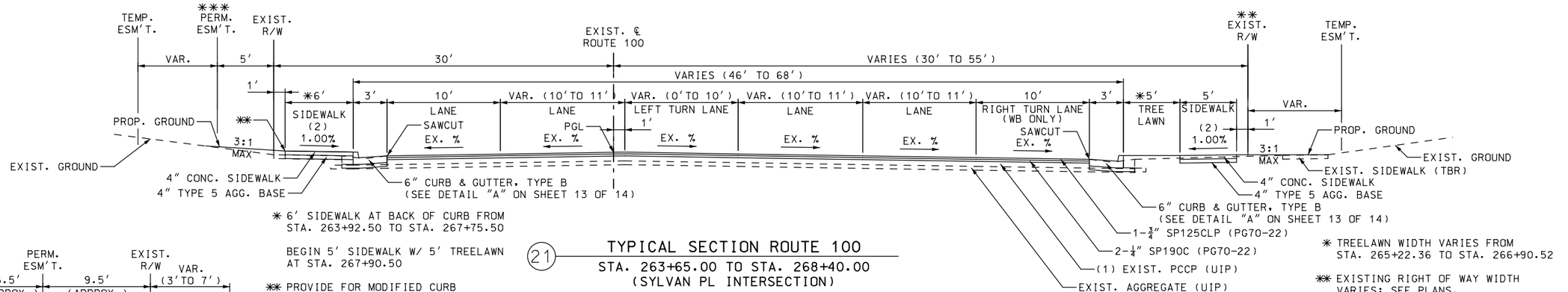
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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TYPICAL SECTIONS
ROUTE 100
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* 6′ SIDEWALK AT BACK OF CURB FROM STA. 263+92.50 TO STA. 267+75.50

BEGIN 5′ SIDEWALK W/ 5′ TREELAWN AT STA. 267+90.50

** PROVIDE FOR MODIFIED CURB (SEE DETAIL "G" ON SHEET 14 OF 14) STA. 267+13.38 TO STA. 267+22.67 (WALL NO. 48)

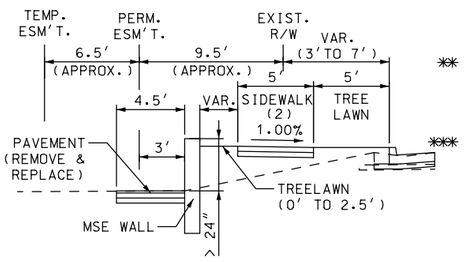
*** PERMANENT EASEMENT REQUIRED FOR DRAINAGE & UTILITIES ONLY

21 TYPICAL SECTION ROUTE 100
STA. 263+65.00 TO STA. 268+40.00
(SYLVAN PL INTERSECTION)

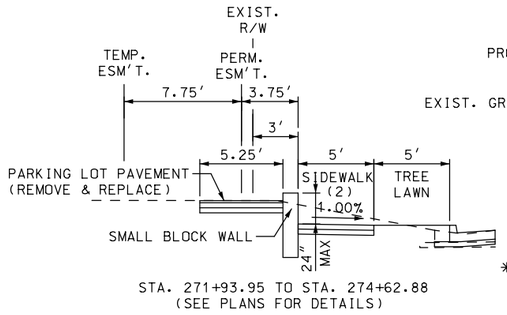
* TREELAWN WIDTH VARIES FROM STA. 265+22.36 TO STA. 266+90.52

** EXISTING RIGHT OF WAY WIDTH VARIES; SEE PLANS.

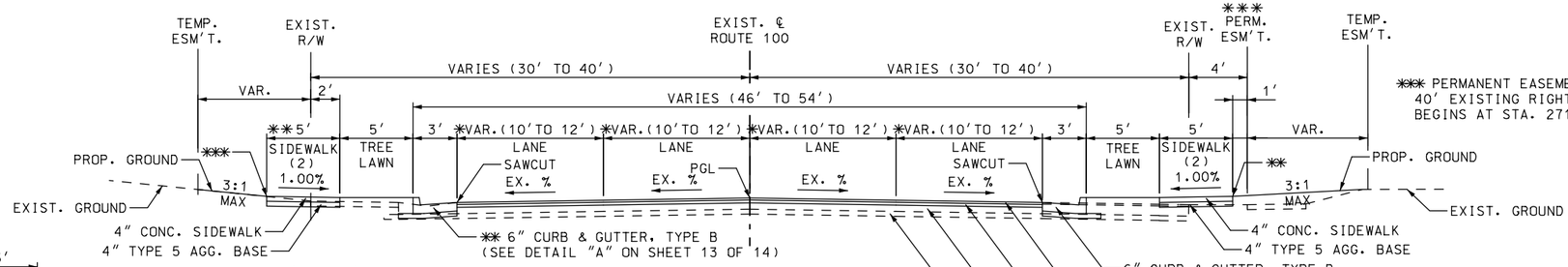
PROVIDE FOR 1′ PERMANENT EASEMENT AT BACK OF SIDEWALK BETWEEN STA. 262+73.58 TO STA. 265+55.00; STARTING AGAIN AT STA. 268+10.54



STA. 268+67.09 TO STA. 271+32.14
(SEE PLANS FOR DETAILS)



STA. 271+93.95 TO STA. 274+62.88
(SEE PLANS FOR DETAILS)



*** PERMANENT EASEMENT ENDS, 40′ EXISTING RIGHT OF WAY BEGINS AT STA. 271+94.57

* TAPER LANES FROM 10′ TO 12′ FROM STA. 269+80.00 TO STA. 271+40.00

** USE EXIST. CURB & GUTTER & SIDEWALK IN PLACE BEGINNING AT STA. 275+28.33

*** PROVIDE FOR MSE WALL (SEE DETAIL "M" ON SHEET 14 OF 14) STA. 268+67.09 TO STA. 271+32.14 (WALL NO. 47)

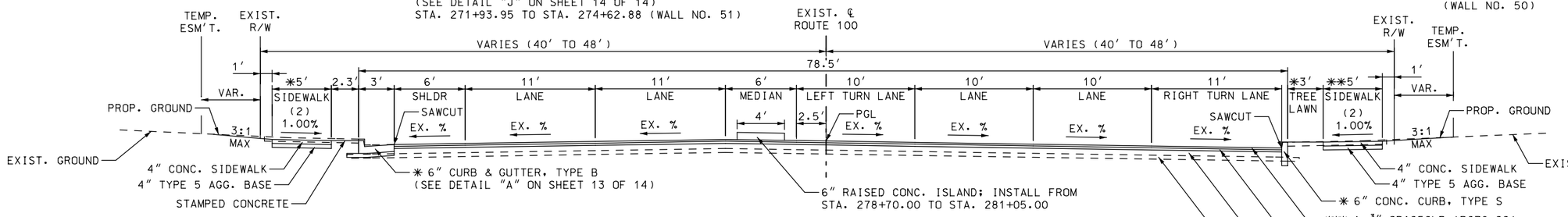
PROVIDE FOR SMALL BLOCK WALL (SEE DETAIL "J" ON SHEET 14 OF 14) STA. 271+93.95 TO STA. 274+62.88 (WALL NO. 51)

22 TYPICAL SECTION ROUTE 100
STA. 268+40.00 TO STA. 276+70.00
(BERNICE AVENUE TO TAYLOR AVE)

* TAPER WB LANES FROM 10′ TO 12′ FROM STA. 271+40.00 TO STA. 273+00.00

** PROVIDE FOR MODIFIED CURB (SEE DETAIL "H" ON SHEET 14 OF 14) STA. 269+20.90 TO STA. 269+44.50 (WALL NO. 49)

PROVIDE FOR SMALL BLOCK WALL (SEE DETAIL "K" ON SHEET 14 OF 14) STA. 269+65.50 TO STA. 270+20.41 (WALL NO. 50)



* INSTALL NEW SIDEWALK AND CURB & GUTTER FROM STA. 280+16.15 TO STA. 281+34.50; OTHERWISE USE EXISTING SIDEWALK AND CURB & GUTTER IN PLACE

23 TYPICAL SECTION ROUTE 100
STA. 276+70.00 TO STA. 281+06.00
(KIRKWOOD ROAD INTERSECTION)

* TRANSITION FROM 5′ TO 3′ TREELAWN AT STA. 278+27.45 & BEGIN TYPE S CURB; END CURB REPLACEMENT AT STA. 278+72.00

** SIDEWALK ENDS AT STA. 279+12.32; MATCH EXIST. SIDEWALK

*** END PAVEMENT IMPROVEMENTS; WESTBOUND LANES AT STA. 278+70.00

NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4″ ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
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COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

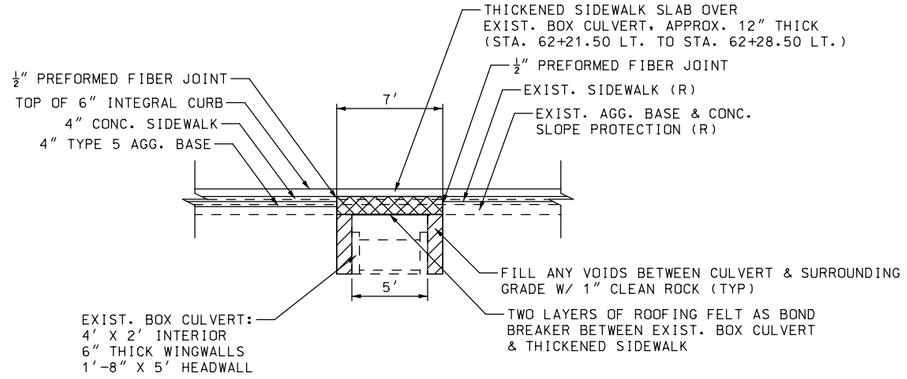
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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TYPICAL SECTIONS
ROUTE 100
SHEET 8 OF 14

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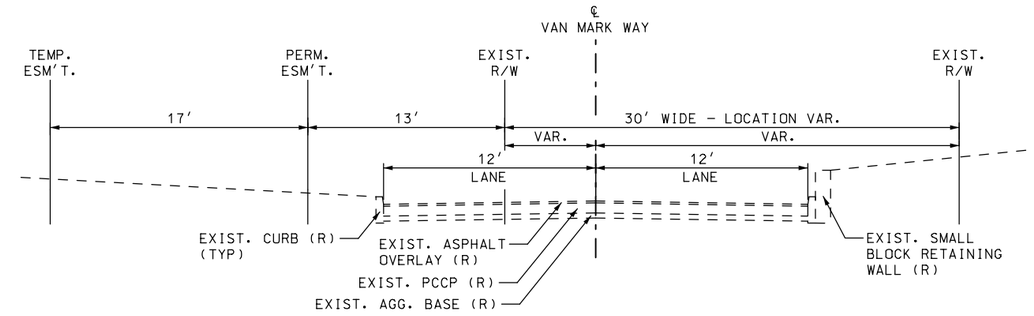
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NOTE:
ROUTE 100 STA. 62+22.00, BACK OF SIDEWALK EXIST. EL. = 445.75', PROP. EL. = 446.29'
ROUTE 100 STA. 62+28.00, BACK OF SIDEWALK EXIST. EL. = 445.58', PROP. EL. = 446.26'

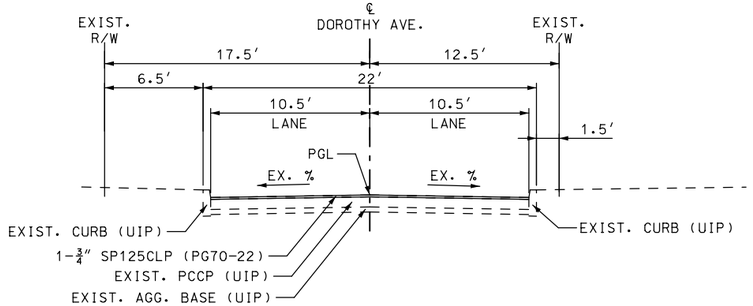
(24) SIDEWALK OVER BOX CULVERT NEAR BOMPART AVE

4' X 2' EXISTING BOX CULVERT
℄ STA. 62+25 LT. (ROUTE 100)
STA. 62+21.50 LT. TO STA. 62+28.50 LT.



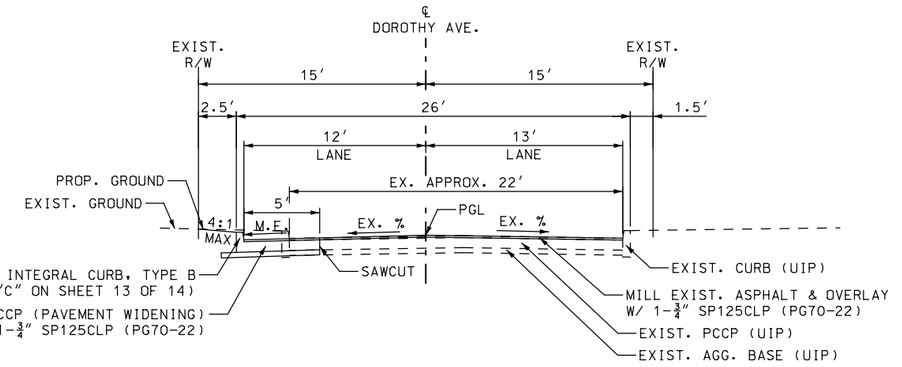
(25) TYPICAL SECTION VAN MARK WAY

EXIST. PAVEMENT TO BE REMOVED
(SEE PLANS FOR LOCATIONS)



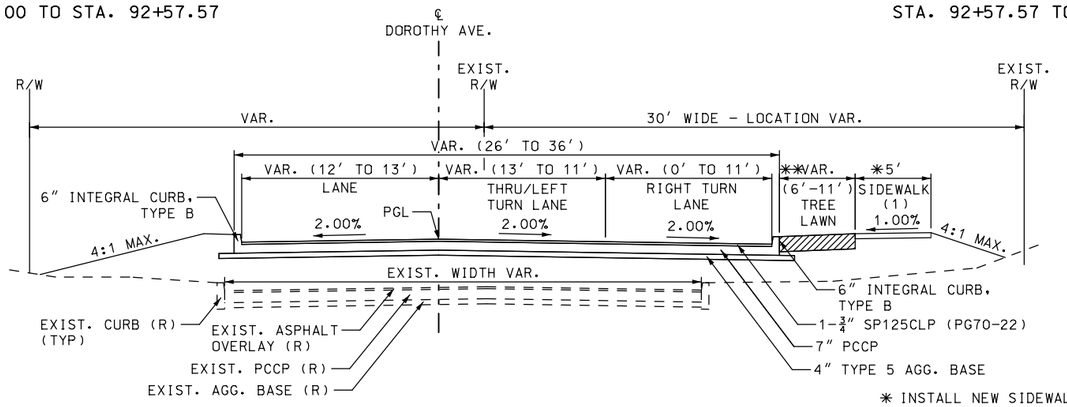
(26) TYPICAL SECTION DOROTHY AVENUE

MILL & OVERLAY
STA. 89+12.00 TO STA. 92+57.57



(27) TYPICAL SECTION DOROTHY AVENUE

LANE WIDENING
STA. 92+57.57 TO STA. 93+17.40



(28) TYPICAL SECTION DOROTHY AVENUE

NEW PAVEMENT
STA. 93+17.40 TO STA. 94+80.00

* INSTALL NEW SIDEWALK FROM
STA. 93+48.48 TO STA. 94+67.33

** AMENDED SOILS FROM
STA. 93+80.53 TO STA. 94+61.33

NOTES:

(1) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

DATE PREPARED
3/13/2020
ROUTE 100 | STATE MO
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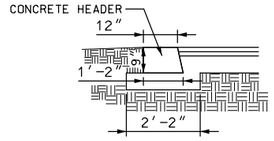
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TYPICAL SECTIONS
ROUTE 100
SHEET 9 OF 14

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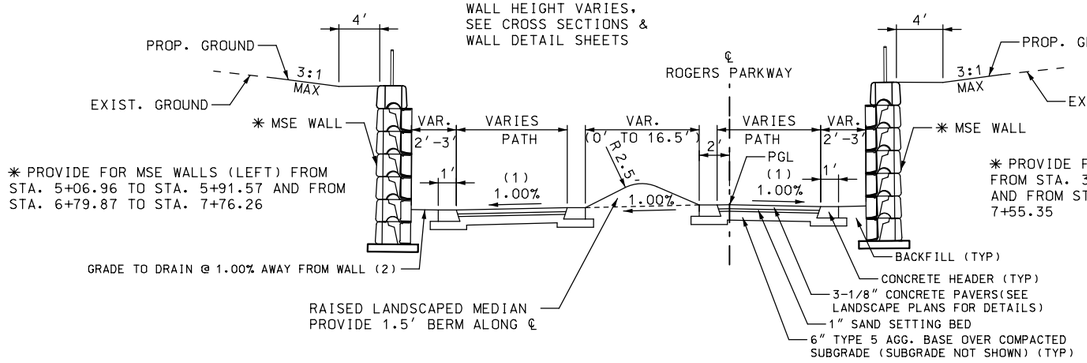
ROGERS PARKWAY NOTES:

* SEE PLANS FOR ADDITIONAL INFORMATION REGARDING PROPOSED ALIGNMENT, SHARED USE PATH & RETAINING WALL LAYOUT AND RIGHT OF WAY



ROGERS PARKWAY
CONCRETE HEADER DETAIL

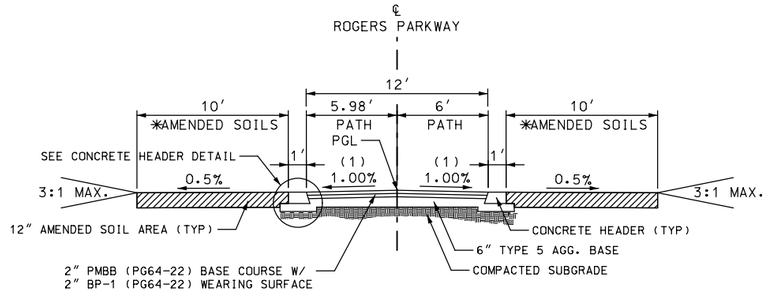
NOTE:
WALL HEIGHT VARIES, SEE CROSS SECTIONS & WALL DETAIL SHEETS



* PROVIDE FOR MSE WALLS (LEFT) FROM STA. 5+06.96 TO STA. 5+91.57 AND FROM STA. 6+79.87 TO STA. 7+76.26

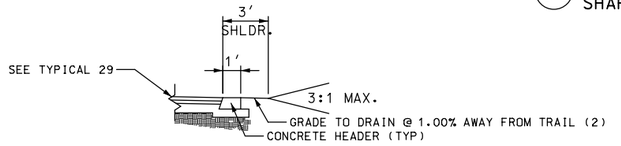
* PROVIDE FOR MSE WALLS (RIGHT) FROM STA. 3+60.39 TO STA. 5+91.57 AND FROM STA. 6+79.31 TO STA. 7+55.35

30 TYPICAL SECTION ROGERS PARKWAY
SHARED USE PATH W/ RAISED LANDSCAPED MEDIAN
STA. 4+28.55 TO STA. 5+91.57
STA. 6+79.58 TO STA. 8+33.11

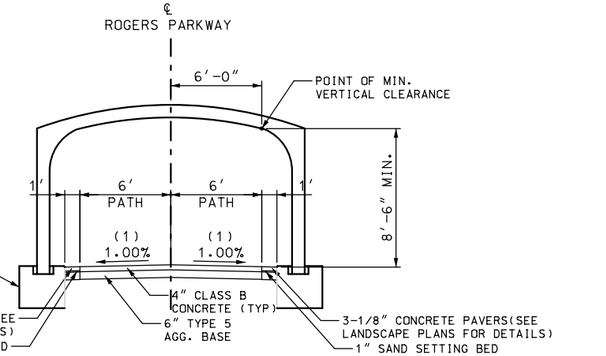


29 TYPICAL SECTION ROGERS PARKWAY
SHARED USE PATH
STA. 0+03.57 TO STA. 4+28.55

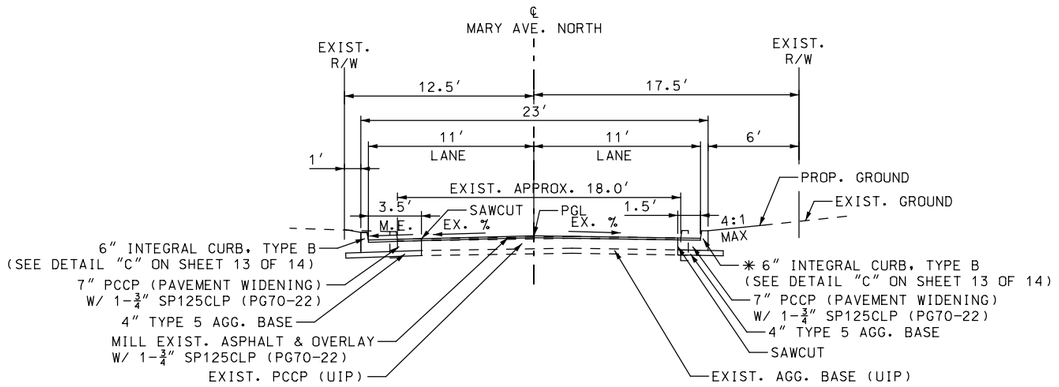
* AMENDED SOILS (RT) ENDS STA.1+70.00 AND AMENDED SOILS (LEFT) ENDS STA. 4+33.25 (SEE DETAIL A ON THIS SHEET FOR ALTERNATE END CONDITION)



DETAIL A
ALTERNATE END CONDITION
(APPLIED TO LEFT & RIGHT SIDES OF TRAIL)

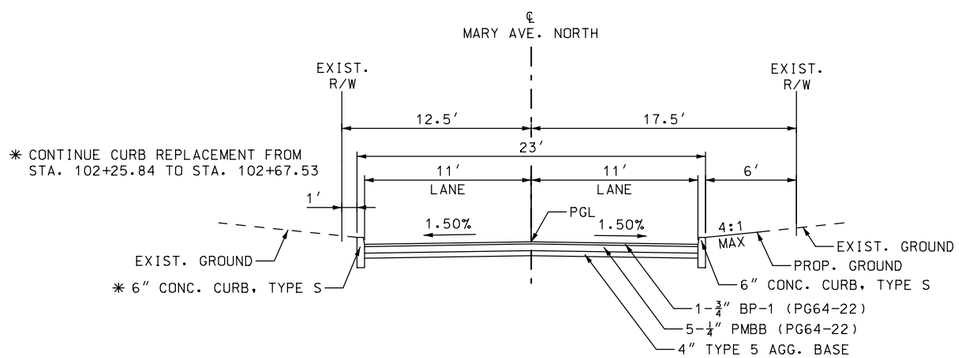


31 TYPICAL SECTION ROGERS PARKWAY - PRECAST 3-SIDED STRUCTURE
SHARED USE PATH AT PEDESTRIAN UNDERPASS
STA. 5+91.57 TO STA. 6+79.58 (88 LF)



32 TYPICAL SECTION MARY AVENUE NORTH
LANE WIDENING
STA. 100+57.21 TO STA. 101+40.75

* VARY INTEGRAL CURB HEIGHT TO MATCH EXISTING ENTRANCE AND SIDEWALK ELEVATIONS



33 TYPICAL SECTION MARY AVENUE NORTH
NEW PAVEMENT
STA. 101+40.75 TO STA. 102+32.10

NOTES:

(1) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION OF BOTH SIDEWALK AND SHARED USE PATH NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

(2) SHOULDER GRADING OUTSIDE OF CONCRETE HEADER TO SLOPE AT 1.00% AWAY FROM TRAIL EXCEPT FOR ALONG WALLS. AT WALL LOCATIONS GRADE AT 1.00% AWAY FROM THE WALL.

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
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COUNTY ST. LOUIS
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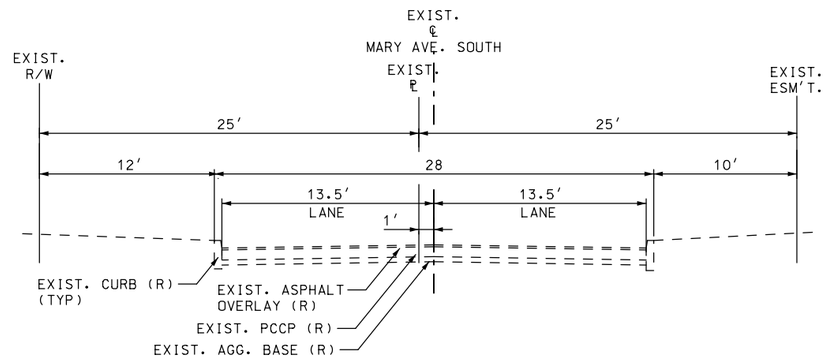
DESCRIPTION | DATE | REV.

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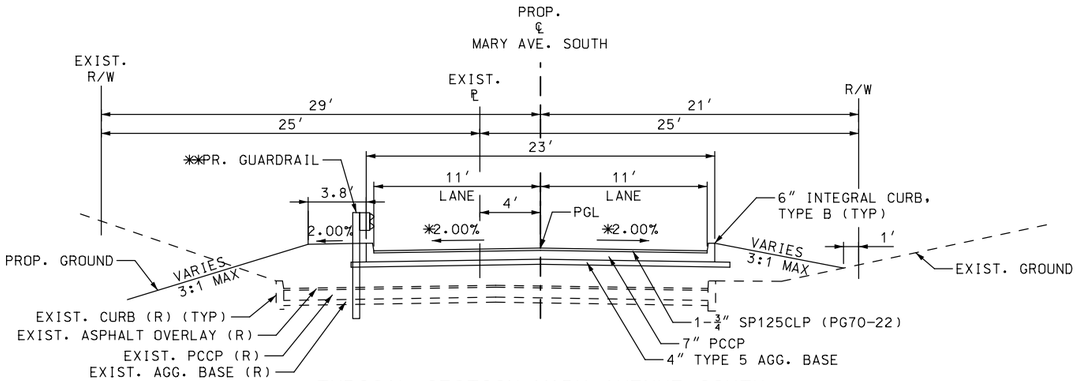
TYPICAL SECTIONS
ROUTE 100
SHEET 10 OF 14

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34 TYPICAL SECTION MARY AVENUE SOUTH

EXIST. PAVEMENT TO BE REMOVED
(SEE PLANS FOR LOCATIONS)

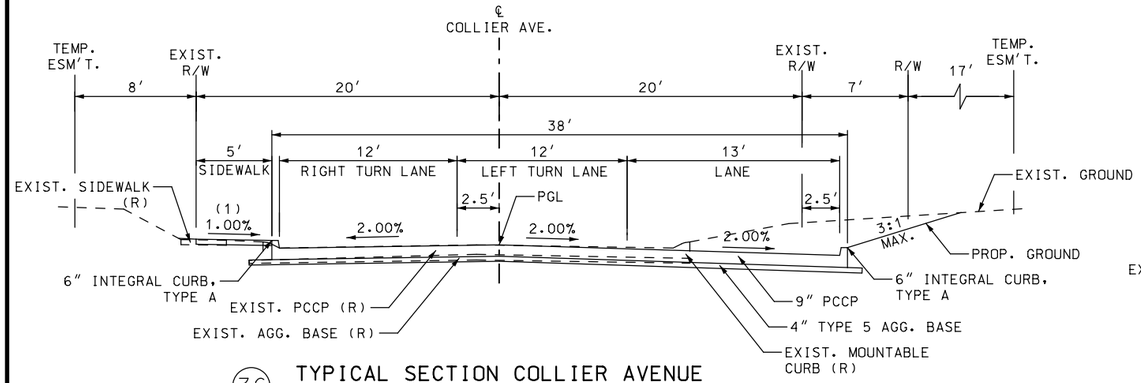


35 TYPICAL SECTION MARY AVENUE SOUTH

NEW PAVEMENT
STA. 105+20.19 TO STA. 107+08.34

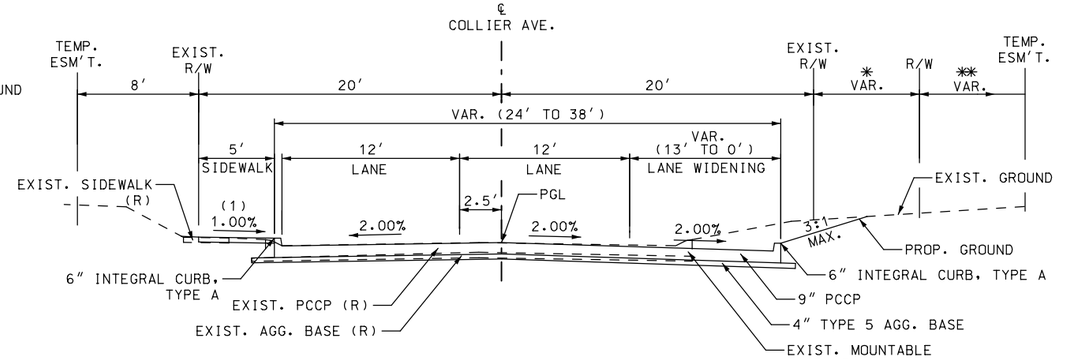
✱ TRANSITION CROSS SLOPE FROM PROPOSED 2.00% CROWN TO MATCH EXISTING FROM STA. 106+97.93 TO STA. 107+08.34

✱✱ PROPOSED GUARDRAIL STA. 105+50.37 TO STA. 106+51.57



36 TYPICAL SECTION COLLIER AVENUE

NEW PAVEMENT & LANE ADDITION
STA. 115+35.86 TO 116+62.30



37 TYPICAL SECTION COLLIER AVENUE

NEW PAVEMENT & LANE WIDENING
STA. 116+62.30 TO 117+23.50

✱ NEW R/W VARIES FROM 7′ TO 0′
STA. 116+62.42 TO STA. 116+87.82

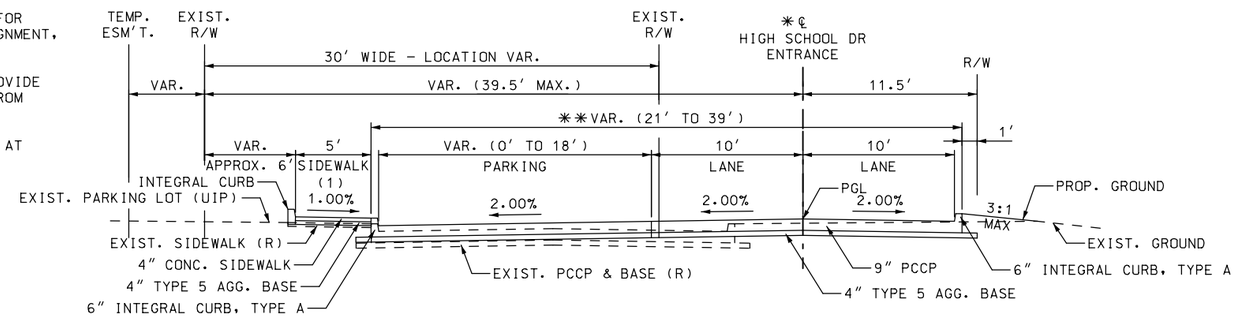
✱✱ TEMP. ESM'T. VARIES FROM 17′ TO 0′
STA. 116+83.75 TO STA. 117+20.58

HIGH SCHOOL DRIVE (ENTRANCE) NOTES:

✱ HIGH SCHOOL DRIVE TO BE REALIGNED; SEE PLANS FOR ADDITIONAL INFORMATION REGARDING PROPOSED ALIGNMENT, ROADWAY & PARKING LAYOUT AND RIGHT OF WAY

✱✱ TRANSITION FROM 21′ TO 39′ WIDE ROADBED TO PROVIDE FOR 5 – 8′ WIDE ANGLED (45°) PARKING STALLS FROM STA. 128+72.48 TO STA. 129+40.31

✱✱✱ PROVIDE FOR VARIABLE WIDTH TREELAWN BEGINNING AT STA. 129+19.38 SEE PLANS FOR DETAILS



38 TYPICAL SECTION – HIGH SCHOOL DRIVE (ENTRANCE)

NEW PAVEMENT W/ PARKING (SEE PLANS FOR LAYOUT)
STA. 128+23.17 TO STA. 129+80.00

NOTES:

(1) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

DATE PREPARED
3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B/C

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

TYPICAL SECTIONS
ROUTE 100
SHEET 1:1 OF 14

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\002_TS_01_J6S1718_I5.dgn 3:23:23 PM 3/13/2020

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD												
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	REMARKS
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	5+02.31	RT 100	LT		I-107	4.23										4					1						9.1	TRAPPED
	21+72.44	RT 100	RT		I-123A	4.53														1						9.7	TRAPPED
	21+72.44 TO 21+99.85	RT 100	RT	SS-123A					32																	14.8	
	21+99.85	RT 100	RT		I-123B	3.81															1					14.6	
	21+72.44	RT 100	RT	21J4-336C	I-124	4.80																	1			10.2	TRAPPED
	25+43.08	RT 100	RT	21J4-0420C	I-125	4.15															1					15.7	TRAPPED
	34+80.69	RT 100	LT		MH-202-1	2.37										1										5.6	
	34+92.88	RT 100	LT		I-202	2.26															1					9.5	
	34+92.88 TO 34+80.69	RT 100	LT	SS-202					9																	2.3	
	34+98.26	RT 100	RT	21K3-0244D																				1			
	35+55.19	RT 100	RT	21K3-0239D																				1			
	39+10.08	RT 100	RT		I-203	5.02														1						10.6	
	39+10.08 TO 39+10.80	RT 100	RT	SS-203						14																11.9	
	39+10.08 TO 39+57.43	RT 100	RT	SS-204						41																22.3	
	39+57.43	RT 100	RT		I-204	4.75															1					17.7	
	42+98.02	RT 100	RT		I-208	6.10																	1			12.6	
	42+98.02 TO 43+41.99	RT 100	RT	SS-208A-2								40														29.7	
	42+99.73	RT 100	LT		MH-207A-1	6.78										1										13.9	
	42+99.73 TO 43+47.79	RT 100	LT	SS-207A								44														34.5	
	43+41.99	RT 100	RT		I-208A-2	5.36																	1			11.2	
	43+41.99 TO 43+47.83	RT 100	LT	SS-207B-2								2														1.4	
	43+47.79	RT 100	LT		I-207A	5.32																	1			11.1	
	43+47.79	RT 100	LT		MH-207B-2	5.58										1										11.6	
	43+47.79 TO 45+45.81	RT 100	LT	SS-207B-1					195																	110.6	
	43+47.79 TO 43+47.79	RT 100	LT	SS-207B-2						6																3.6	
	43+47.83	RT 100	RT		I-208A-1	5.28																	1			11.1	
	43+47.83 TO 44+42.43	RT 100	RT	SS-208B-1								91														63.0	
	44+42.43	RT 100	RT		MH-208B-1	5.40										1										11.3	
	44+42.43 TO 45+24.17	RT 100	RT	SS-208B								77														55.3	
	45+21.55	RT 100	RT		MH-208D-3	5.94										1										12.3	
	45+21.55 TO 45+24.17	RT 100	RT	SS-208D-3								6														4.5	
	45+24.17	RT 100	RT		I-208B	5.68															1					20.7	
	45+45.81	RT 100	LT		MH-207B-1	4.63										1										9.9	
	45+45.81 TO 45+59.36	RT 100	LT	SS-207B					18																	8.9	
	45+21.55 TO 47+52.64	RT 100	RT	SS-208D-2								227														172.9	
	45+59.36	RT 100	LT		I-207B	4.25														1						9.2	
	47+52.64	RT 100	RT		MH-208D-2	5.82										1										12.1	
	47+52.64 TO 47+53.23	RT 100	RT	SS-208C								6														4.3	
	47+53.23	RT 100	RT		I-208C	5.26															1					19.3	
	47+53.23 TO 47+53.25	RT 100	LT/RT	SS-207C						47																25.5	
	47+53.25	RT 100	LT		I-207C	4.50														1						9.6	
	47+52.64 TO 48+10.16	RT 100	RT	SS-208D-1						54																33.0	
	48+10.16	RT 100	RT		MH-208D-1	5.18										1										10.9	
	48+10.16 TO 48+25.16	RT 100	RT	SS-208D						13																7.2	
	48+25.16	RT 100	RT		I-208D	4.85															1					18.0	
	51+26.46	RT 100	RT		I-209E-1	4.50																	1			9.6	
	51+26.46 TO 51+32.42	RT 100	RT	SS-209E-1					2																	1.0	
	51+32.42	RT 100	RT		I-209E-2	4.75																	1			10.1	
	51+32.42 TO 51+92.49	RT 100	RT	SS-209E-2						55																28.7	
	51+92.49	RT 100	RT		I-209D-1	4.65																	1			9.9	
	51+92.49 TO 51+98.44	RT 100	RT	SS-209D-1						2																1.0	
	51+98.44	RT 100	RT		I-209D-2	4.69																	1			10.0	
	51+98.44 TO 51+98.56	RT 100	RT	SS-209D-2						2																1.1	
	51+98.56	RT 100	RT		MH-209D-3	5.37										1										11.2	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI ENGINEERS
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 1 OF 8

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD												
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	REMARKS
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	51+98.56 TO 54+51.50	RT 100	RT	SS-209D-3								247															171.8	
	54+51.50	RT 100	RT		MH-209D-4	5.35										1											11.2	
	54+51.50 TO 54+51.51	RT 100	RT	SS-209D-4								7															5.1	
	54+51.51	RT 100	RT		I-209C	5.89															1						21.4	
	54+51.51 TO 55+17.64	RT 100	RT	SS-209C								59															46.1	
	55+00.15	RT 100	RT		I-209B	4.69															1						17.4	
	55+00.15 TO 55+17.64	RT 100	RT	SS-209B					20																		12.1	
	55+17.64	RT 100	RT		MH-209C-1	6.16												1									19.9	
	55+17.64 TO 56+51.09	RT 100	RT	SS-209C-1										129													117.1	
	55+17.64 TO 55+28.02	RT 100	RT	SS-209A					13																		8.0	
	55+28.02	RT 100	RT		I-209A	4.88															1						18.1	
	56+51.09	RT 100	RT		MH-209C-2	5.85											1										15.4	
	56+51.09 TO 58+32.03	RT 100	RT	SS-209C-2										179													167.6	
	58+92.89 TO 59+28.29	RT 100	RT	SS-212A					32																		20.8	
	59+27.94	RT 100	LT		I-210	4.25															1						16.0	
	59+27.94 TO 59+27.95	RT 100	L	SS-210					2																		1.0	
	59+27.95	RT 100	LT		MH-210-1	4.69										1											10.0	
	59+28.29	RT 100	RT		I-212A	5.54														1							11.6	
	59+28.29 TO 60+18.38	RT 100	RT	SS-212-1					86																		47.9	
	60+18.38	RT 100	RT		MH-212-1	4.49										1											9.6	
	60+18.38 TO 60+23.24	RT 100	RT	SS-212					8																		3.8	
	60+23.24	RT 100	RT		I-212	4.04														1							8.8	
	60+36.81	RT 100	LT		I-213A	4.17																	1				9.0	
	60+36.81 TO 60+36.82	RT 100	LT	SS-213A					7																		3.4	
	60+36.82	RT 100	LT		MH-213-1	4.56										1											9.7	
	60+36.82 TO 60+37.27	RT 100	LT	SS-213					2																		1.0	
	60+37.27	RT 100	LT		I-213	4.37														1							9.4	
	60+80.28	RT 100	LT		I-214A	4.74																	1				10.1	
	60+80.28 TO 60+80.31	RT 100	LT	SS-214A					6																		3.3	
	60+80.31	RT 100	LT		MH-213-2	5.16										1											10.8	
	60+80.31 TO 60+80.32	RT 100	LT	SS-214					3																		1.7	
	60+80.32	RT 100	LT		I-214	4.91														1							10.4	
	61+20.07	RT 100	LT		MH-213-3	5.26										1											11.0	
	61+20.07 TO 61+20.50	RT 100	LT	SS-215					2																		1.1	
	61+20.50	RT 100	LT		I-215	4.59														1							9.8	
	61+63.67	RT 100	RT		I-216A	4.25														1							9.2	
	61+63.67 TO 61+79.99	RT 100	RT	SS-216A					16																		7.6	
	62+25.47 TO 63+59.90	RT 100	RT	SS-218-1					129																		81.2	
	63+59.75	RT 100	RT		I-218	4.37													1								9.4	
	63+59.75 TO 63+59.90	RT 100	RT	SS-218					8																		4.4	
	63+59.90	RT 100	RT		MH-218-1	5.56										1											11.6	
	66+68.40 TO 68+07.59	RT 100	LT	SS-220C-1						134																	90.0	
	68+07.59	RT 100	LT		MH-220C-1	5.25										1											11.0	
	68+07.59 TO 68+07.81	RT 100	LT	SS-220					13																		7.3	
	68+07.59 TO 69+84.23	RT 100	LT	SS-220C					173																		100.9	
	68+07.81	RT 100	LT		I-220	4.85																	1				10.3	
	69+84.23	RT 100	LT		I-220C	5.25														1							11.0	
	69+84.23 TO 71+26.08	RT 100	LT	SS-221B-1					138																		79.0	
	71+26.08	RT 100	LT		MH-221B-1	5.05										1											10.6	
	71+26.08 TO 71+28.42	RT 100	RT/LT	SS-221B					62																		34.5	
	71+28.42	RT 100	RT		I-221B	4.95															1						18.3	
	71+28.42 TO 71+77.36	RT 100	RT	SS-221C					44																		24.4	
	71+76.86	RT 100	RT		MH-221D-1	4.55										1											9.7	
	71+76.86 TO 71+77.36	RT 100	RT	SS-221D-1					7																		3.7	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI ENGINEERS, INC.
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 2 OF 8

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD												REMARKS
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	71+76.86 TO 74+05.11	RT 100	RT	SS-221D					226																		114.8	
	71+77.36	RT 100	RT		I-221C	5.03														1							10.6	
	74+05.11	RT 100	RT		I-221D	4.60														1							9.8	
	81+24.67	RT 100	RT		I-230-1	5.09																	1				10.7	
	81+24.67 TO 81+30.50	RT 100	RT	SS-230-1					2																		1.1	
	81+30.50	RT 100	RT		I-230-2	5.09																	1				10.7	
	81+30.50 TO 81+85.40	RT 100	RT	SS-230-2					51																		27.3	
	81+85.40	RT 100	RT		MH-230-3	4.56										1											9.7	
	81+85.40 TO 82+54.79	RT 100	RT	SS-230-3					66																		35.8	
	81+86.69	RT 100	LT		I-227	6.53														1							13.4	
	81+86.69 TO 81+96.49	RT 100	LT	SS-227				5																			4.3	
	81+96.49 TO 82+18.80	RT 100	LT	SS-228-1									18														20.1	
	82+18.80	RT 100	LT		MH-228-1	8.22										1											16.6	
	82+18.80 TO 82+26.78	RT 100	LT	SS-228					4																		2.9	
	82+26.78	RT 100	LT		I-228	4.75														1							10.1	
	82+54.79	RT 100	RT		I-230A-2	5.20																	1				10.9	
	82+54.79 TO 82+60.63	RT 100	RT	SS-230A-2								2															1.4	
	82+60.63	RT 100	RT		I-230A-1	5.50																	1				11.5	
	82+60.63 TO 82+78.40	RT 100	RT	SS-230A-1								16															13.0	
	82+95.28 TO 83+12.01	RT 100	RT	SS-230C-4						14																	9.8	
	83+12.01	RT 100	RT		MH-230C-4	4.71										1											10.0	
	83+12.01 TO 118+94.77	RT 100	RT	SS-230C-3					199																		98.5	
	118+94.76 R 6	RT 100	RT		I-230B	4.43															1						16.6	
	118+94.76 TO 118+94.77	RT 100	RT	SS-230B					7																		3.4	
	118+94.77 R 6	RT 100	RT		MH-230C-3	4.20										1											9.1	
	118+94.77 TO 120+13.65	RT 100	RT	SS-230C-2					115																		54.6	
	120+13.65 R 6	RT 100	RT		MH-230C-2	4.35										1											9.3	
	120+13.65 TO 121+90.12	RT 100	RT	SS-230C-1					172																		83.2	
	121+89.70 R 6	RT 100	RT		I-230C	4.55															1						17.0	
	121+89.70 TO 121+90.12	RT 100	RT	SS-230C					7																		3.5	
	121+90.12 R 6	RT 100	RT		MH-230C-1	4.35										1											9.3	
	125+79.66	RT 100	RT		I-302F	4.98															1						18.4	
	125+79.66 TO 126+36.52	RT 100	RT	SS-302F					54																		29.2	
	126+36.52	RT 100	RT		I-302E	4.75														1							10.1	
	126+36.52 TO 126+43.36	RT 100	RT	SS-302E					11																		6.2	
	126+43.36	RT 100	RT		MH-302D	5.34										1											11.2	
	126+43.36 TO 126+98.20	RT 100	RT	SS-302D-2					52																		28.4	
	126+98.20	RT 100	RT		MH-302C	4.50										1											9.6	
	126+98.20 TO 129+02.18	RT 100	RT	SS-302C						202																	107.4	
	127+00.47	RT 100	RT		I-302D	4.41															1						16.6	
	127+00.47 TO 126+98.20	RT 100	RT	SS-302D-1						8																	4.0	
	127+11.93	RT 100	LT		I-301E	4.83															1						17.9	
	127+11.93 TO 129+00.51	RT 100	LT	SS-301E						179																	96.7	
	129+00.51	RT 100	LT		I-301D	4.89															1						18.1	
	129+00.51 TO 131+05.82	RT 100	LT	SS-301D						198																	109.0	
	129+02.18	RT 100	RT		MH-302B-2	5.07										1											10.7	
	129+02.18 TO 130+34.77	RT 100	RT	SS-302B-3						129																	86.4	
	130+32.50	RT 100	RT		I-302B	4.25															1						16.0	
	130+32.50 TO 130+34.77	RT 100	RT	SS-302B-2							8																5.4	
	130+34.77	RT 100	RT		MH-302B-1	6.98										1											14.2	
	130+34.77 TO 131+04.41	RT 100	RT	SS-302B-1						68																	47.0	
	131+04.41	RT 100	RT		I-302A	5.47															1						20.0	
	131+04.41 TO 131+27.65	RT 100	RT	SS-302A						30																	38.6	
	131+05.82	RT 100	LT		I-301C	5.02															1						18.5	

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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
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105 WEST CAPITOL
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CDI ENGINEERS
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Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 3 OF 8

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\00X_QU_03_J6S3329_I5.dgn 6:28:00 PM 2/5/2020

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD												REMARKS
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	131+05.82 TO 131+38.87	RT 100	LT	SS-301C-2						29																	16.5	
	131+27.65	RT 100	RT		I-302	17.68																1					34.2	
	131+27.65 TO 131+68.58	RT 100	RT	SS-302					38																		46.2	
	131+38.87	RT 100	LT		MH-301C	5.25										1											11.0	
	131+38.87 TO 132+83.04	RT 100	LT	SS-301C-1						139																	84.6	
	131+68.57	RT 100	RT		I-303A	4.98																1					10.5	
	131+68.57 TO 131+68.58	RT 100	RT	SS-303A-2								6															3.6	
	131+68.58	RT 100	RT		MH-303A	4.18										1											9.0	
	131+68.58 TO 133+98.37	RT 100	RT	SS-303A-1					226																		133.3	
	132+83.04	RT 100	LT		I-301B	5.70															1						20.8	
	132+83.04 TO 135+46.05	RT 100	LT	SS-301B						255																	147.3	
	133+98.37	RT 100	RT		MH-303	6.44										1											13.2	
	133+98.37 TO 134+16.69	RT 100	RT	SS-303-2								13															10.5	
	134+16.69	RT 100	RT		I-303	5.99															1						21.7	
	134+16.69 TO 135+52.01	RT 100	RT	SS-303-1								128															88.8	
	135+46.05	RT 100	LT		I-301A	4.69															1						17.5	
	135+46.05 TO 136+60.30	RT 100	LT	SS-301A						109																	49.3	
	135+52.01	RT 100	RT		I-305A	4.72															1						17.6	
	135+52.01 TO 136+96.02	RT 100	RT	SS-305A								136															74.9	
	136+96.02	RT 100	RT		I-305	3.78															1						14.5	
	136+96.02 TO 137+83.08	RT 100	RT	SS-305								83															41.5	
	144+81.18	RT 100	LT		I-320	6.67															1						23.9	
	145+14.76	RT 100	LT		MH-320-1	5.36										1											11.2	
	146+10.09	RT 100	LT		I-320A	6.07															1						21.9	
	146+10.09 TO 146+16.87	RT 100	LT	SS-320A						12																	7.6	
	146+16.87	RT 100	LT		MH-320-2	5.29										1											11.1	
	146+21.88 TO 146+36.31	RT 100	RT	SS-322						12																	8.5	
	146+36.31	RT 100	RT		MH-322	5.42										1											11.3	
	146+36.31 TO 147+35.30	RT 100	RT	SS-321A-1						93																	53.6	
	147+35.30	RT 100	RT		I-321A	4.95															1						18.3	
	147+35.30 TO 147+49.87	RT 100	RT	SS-321A-2						10																	5.9	
	147+49.87	RT 100	RT		MH-321A	5.63										1											11.7	
	148+48.46	RT 100	LT		I-320B	5.93															1						21.5	
	148+48.46 TO 148+52.84	RT 100	LT	SS-320B						14																	8.6	
	148+52.84	RT 100	LT		MH-320-3	5.07										1											10.7	
	148+87.17	RT 100	LT		I-320C	4.68														1							10.0	
	148+90.67	RT 100	RT		MH-321B	5.39										1											11.3	
	148+90.67 TO 147+49.87	RT 100	RT	SS-321B-1						137																	83.9	
	148+90.67 TO 149+05.18	RT 100	RT	SS-321B-2						10																	6.1	
	149+05.18	RT 100	RT		I-321B	5.52															1						20.2	
	149+43.61	RT 100	LT		MH-323-1	5.06										1											10.7	
	152+12.43	RT 100	LT		I-325	5.74															1						20.9	
	169+89.23	RT 100	RT		MH-343A	5.48										1											11.4	
	169+89.23 TO 171+38.50	RT 100	RT	SS-343A-1								144															103.1	
	169+89.23	RT 100	RT		MH-343A	5.48										1											11.4	
	169+89.23 TO 169+89.26	RT 100	RT	SS-343A-2								6															4.2	
	169+89.26	RT 100	RT		I-343A	5.37														1							11.2	
	170+88.44	RT 100	LT		I-342	4.73														1							10.1	
	170+88.44 TO 171+39.20	RT 100	LT	SS-342						47																	33.8	
	171+38.50	RT 100	RT		I-343	5.57															1						20.3	
	171+38.50 TO 172+01.72	RT 100	RT	SS-343C								56															39.8	
	171+39.20 TO 171+52.15	RT 100	LT	SS-342A						7																	5.1	
	171+52.15	RT 100	LT		I-342A	5.00															1						18.5	
	172+01.72	RT 100	RT		I-343C	5.41															1						19.8	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI ENGINEERS
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 4 OF 8

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD													REMARKS
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	174+39.00	RT 100	LT																							1		
	174+39.73	RT 100	LT		I-345	6.54														1							13.4	
	174+39.73 TO 175+63.17	RT 100	LT	SS-345B								121															91.8	
	174+39.81	RT 100	RT		I-344	6.62																	1				13.6	
	174+39.81 TO 174+86.68	RT 100	RT	SS-344A								42															31.7	
	174+86.68	RT 100	RT		I-344A	5.02															1						18.5	
	175+63.17	RT 100	LT		I-345B	5.17														1							10.9	
	175+63.17 TO 176+95.49	RT 100	LT	SS-345C						128																	73.9	
	176+95.49	RT 100	LT		I-345C	5.23														1							11.0	
	176+95.49 TO 178+43.94	RT 100	LT	SS-345D						144																	82.5	
	178+43.94	RT 100	LT		I-345D	5.09														1							10.7	
	184+49.17	RT 100	LT		I-348	4.98															1						18.4	
	184+49.17 TO 184+74.90	RT 100	LT	SS-348B-2						23																	15.9	
	184+74.74	RT 100	RT		I-349	7.29														1							14.8	
	184+74.74 TO 184+77.79	RT 100	RT	SS-349C					7																		4.4	
	184+74.90	RT 100	LT		I-348A	7.46																	1				15.1	
	184+74.93	RT 100	RT		MH-349-1	7.19										1											14.6	
	184+74.93 TO 185+56.31	RT 100	RT	SS-349-2						77																	52.0	
	184+75.44 TO 185+44.64	RT 100	LT	SS-350-1							66																44.4	
	184+77.79	RT 100	RT		I-349C	4.12															1						15.6	
	185+44.64 TO 185+53.42	RT 100	LT	SS-350-2							7																2.7	
	185+53.42	RT 100	LT		MH-350-1	3.67										1											8.1	
	185+53.42 TO 186+49.58	RT 100	LT	SS-350-3							92																39.7	
	185+56.27	RT 100	RT		I-349B	3.97														1							8.6	
	185+56.27 TO 185+56.31	RT 100	RT	SS-349B						6																	3.0	
	185+56.31	RT 100	RT		MH-349-2	4.98										1											10.5	
	185+56.31 TO 186+29.56	RT 100	RT	SS-349-3						69																	36.9	
	186+29.55	RT 100	RT		I-351	4.92															1						18.2	
	186+29.55 TO 186+29.56	RT 100	RT	SS-351							6																3.5	
	186+29.55 TO 187+20.09	RT 100	RT	SS-351A						83																	48.3	
	186+29.56	RT 100	RT		MH-349-3	4.65										1											9.9	
	186+47.87	RT 100	LT		I-350B	4.04															1						15.3	
	186+47.87 TO 186+49.58	RT 100	LT	SS-350B							12																5.4	
	186+49.58	RT 100	LT		MH-350-2	3.51										1											7.8	
	186+49.58 TO 187+02.91	RT 100	LT	SS-350A-1							48																22.0	
	187+02.91	RT 100	LT		I-350A	4.12															1						15.6	
	187+02.91 TO 188+96.60	RT 100	LT	SS-350A-2							188																105.2	
	187+20.09	RT 100	RT		I-351A	5.57															1						20.3	
	187+20.09 TO 188+19.12	RT 100	RT	SS-351C						94																	57.1	
	188+19.12	RT 100	RT		I-351C	5.37														1							11.2	
	188+19.12 TO 188+31.58	RT 100	RT	SS-351B						19																	11.5	
	188+19.12 TO 189+88.25	RT 100	RT	SS-351D						166																	97.0	
	188+31.58	RT 100	RT		I-351B	5.53														1							11.5	
	188+96.60	RT 100	LT		MH-350A	5.18										1											10.9	
	188+96.60 TO 188+99.19	RT 100	LT	SS-350E-1							5																3.0	
	188+96.60 TO 191+06.74	RT 100	LT	SS-350C							207																125.5	
	188+99.19	RT 100	LT		I-350E	4.67															1						17.4	
	189+88.25	RT 100	RT		I-351D	5.15														1							10.8	
	189+88.25 TO 191+23.70	RT 100	RT	SS-351E						130																	76.7	
	191+06.74	RT 100	LT		I-350C	4.89														1							10.3	
	191+06.74 TO 191+37.67	RT 100	LT	SS-350D						28																	14.7	
	191+23.70	RT 100	RT		I-351E	5.47															1						20.0	
	191+37.67	RT 100	LT		I-350D	4.54														1							9.7	
	191+37.67 TO 193+94.73	RT 100	LT	SS-350E						253																	136.3	
	193+94.73	RT 100	LT		MH-350E	5.17											1										13.7	

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DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC. Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 5 OF 8

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\00X_QU_05_J6S3329_I5.dgn 6:28:01 PM 2/5/2020

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD												REMARKS
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	193+94.73 TO 194+07.24	RT 100	LT	SS-350G						10																	5.4	
	194+07.24	RT 100	LT		I-350G	4.56														1							9.7	
	194+07.24 TO 194+14.29	RT 100	LT	SS-350F							10																5.7	
	194+07.24 TO 195+17.38	RT 100	LT	SS-350H						106																	54.9	
	194+14.29	RT 100	LT		I-350F	4.91															1						18.2	
	195+17.38	RT 100	LT		I-350H	4.77														1							10.1	
	201+19.79	RT 100	LT		I-401A	5.03																	1				10.6	
	201+19.79 TO 203+07.35	RT 100	LT	SS-401B						184																	102.8	
	201+95.13	RT 100	RT		I-404C	6.22														1							12.8	
	201+95.13 TO 203+29.00	RT 100	RT	SS-404C						129																	86.3	
	203+07.35	RT 100	LT		I-402B	4.90																	1				10.4	
	203+07.35 TO 204+93.51	RT 100	LT	SS-402B						183																	102.2	
	203+29.00	RT 100	RT		I-404B	5.92															1						21.5	
	203+29.00 TO 204+72.12	RT 100	RT	SS-404B						137																	86.9	
	204+72.12	RT 100	RT		MH-404A	5.55										1											11.6	
	204+72.12 TO 206+37.66	RT 100	RT	SS-404A-2						160																	97.0	
	204+93.51	RT 100	LT		I-402A	5.20																	1				10.9	
	204+93.51 TO 207+07.78	RT 100	LT	SS-402A						211																	124.8	
	206+37.66	RT 100	RT		I-404A	5.46															1						20.0	
	206+37.66 TO 207+37.57	RT 100	RT	SS-404A-1						94																	54.9	
	207+07.78	RT 100	LT		I-403A	5.48																	1				11.4	
	207+07.78 TO 208+77.36	RT 100	LT	SS-403A						166																	93.9	
	207+37.57	RT 100	RT		MH-404-4	5.10										1											10.7	
	207+37.57 TO 208+82.24	RT 100	RT	SS-404-4						140																	81.8	
	208+77.36	RT 100	LT		MH-403	5.38										1											11.3	
	208+77.36 TO 209+28.65	RT 100	LT	SS-403-2						48																	31.3	
	208+82.24	RT 100	RT		MH-404-1	10.83											1										27.1	
	209+28.65	RT 100	LT		I-403	6.85																	1				14.0	
	209+28.66	RT 100	RT		I-404	4.86															1						18.0	
	209+28.66 TO 209+28.86	RT 100	RT	SS-404								2															1.2	
	209+28.65 TO 210+56.17	RT 100	LT	SS-403B-1						124																	72.7	
	210+56.17	RT 100	LT		I-403B-1	5.79																	1				12.0	
	210+56.17 TO 210+61.99	RT 100	LT	SS-403B-2						2																	1.3	
	210+61.99	RT 100	LT		I-403B-2	5.66																	1				11.8	
	216+78.21	RT 100	LT		I-405	3.10																	1				7.0	
	216+78.21 TO 217+41.37	RT 100	LT	SS-405-3					60																		18.0	
	217+41.37	RT 100	LT		I-405A-1	2.54																	1				6.0	
	217+41.37 TO 217+47.20	RT 100	LT	SS-405A-1					2																		0.6	
	217+47.20	RT 100	LT		I-405A-2	2.49																	1				5.9	
	217+47.20 TO 218+03.21	RT 100	LT	SS-405A-2					53																		16.5	
	218+03.21	RT 100	LT		MH-405	3.13										1											7.1	
	218+03.21 TO 218+08.03	RT 100	LT	SS-405					4																		1.4	
	218+08.03	RT 100	LT		I-407A	3.35															1						13.1	
	218+08.03 TO 218+49.86	RT 100	LT	SS-407A					38																		13.3	
	218+49.86	RT 100	LT		I-408	2.97															1						11.9	
	220+28.13	RT 100	LT		I-407	5.97														1							12.4	
	221+32.52	RT 100	LT		MH-409	6.90										1											14.1	
	221+32.52 TO 221+32.54	RT 100	LT	SS-409-2						3																	2.4	
	221+32.54	RT 100	LT		I-409	7.52															1						26.7	
	222+26.72	RT 100	RT		I-410	4.52															1						16.9	
	222+27.65	RT 100	LT		I-411	5.57														1							11.6	
	223+13.99	RT 100	LT		I-413	4.08															1						15.5	
	223+77.50	RT 100	LT		I-414B	6.83															1						24.4	
	223+77.50 TO 224+04.24	RT 100	LT	SS-414B						50																	32.6	
	224+04.24	RT 100	LT		MH-414A	5.90										1											12.2	

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 6 OF 8

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD													
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	REMARKS
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	224+04.24 TO 225+98.02	RT 100	LT	SS-414A-2						188																	108.4	
	224+12.37	RT 100	RT		I-415C	6.13															1						22.2	
	224+12.37 TO 225+33.47	RT 100	RT	SS-415C-2						115																	69.8	
	225+33.47	RT 100	RT		MH-415C	5.79										1											12.0	
	225+33.47 TO 226+60.87	RT 100	RT	SS-415C-1						123																	71.3	
	225+98.02	RT 100	LT		I-414A	5.48															1						20.0	
	225+98.02 TO 227+16.53	RT 100	LT	SS-414A						113																	62.6	
	226+60.87	RT 100	RT		I-415B	4.31																	1				9.3	
	226+60.87	RT 100	RT		MH-415B	5.63										1											11.7	
	226+60.87 TO 228+16.69	RT 100	RT	SS-415B-1						152																	85.4	
	226+60.87 TO 226+60.87	RT 100	RT	SS-415B-2						8																	4.0	
	227+16.53	RT 100	LT		MH-414-2	7.27										1											14.8	
	227+16.53 TO 228+62.50	RT 100	LT	SS-414-4						143																	92.8	
	228+16.69	RT 100	RT		MH-415A-2	4.59										1											9.8	
	228+16.69 TO 229+58.46	RT 100	RT	SS-415A-3						138																	70.3	
	228+62.50	RT 100	LT		MH-414	5.97										1											12.4	
	228+62.50 TO 229+75.39	RT 100	LT	SS-414-3						109																	62.0	
	229+58.44	RT 100	RT		I-415A	3.36															1						13.1	
	229+58.44 TO 229+58.46	RT 100	RT	SS-415A-2						5																	2.4	
	229+58.46	RT 100	RT		MH-415A-1	5.14										1											10.8	
	229+58.46 TO 230+31.38	RT 100	RT	SS-415A-1						70																	35.9	
	229+75.39	RT 100	LT		I-414-2	4.81																	1				10.2	
	229+75.39 TO 229+81.22	RT 100	LT	SS-414-2								2															1.2	
	229+81.22	RT 100	LT		I-414-1	4.77																	1				10.1	
	229+81.22 TO 230+31.83	RT 100	LT	SS-414-1								47															29.7	
	230+31.38	RT 100	RT		MH-415-1	5.42										1											11.3	
	230+31.38 TO 230+34.63	RT 100	RT	SS-415						6																	2.2	
	230+31.83	RT 100	LT		MH-417	17.00										1											32.9	
	230+31.83 TO 230+66.42	RT 100	LT	SS-417-1								30															18.4	
	230+34.63	RT 100	RT		I-415	2.44															1						10.1	
	230+66.42	RT 100	LT		I-417-1	4.47																	1				9.6	
	230+66.42 TO 230+72.32	RT 100	LT	SS-417-2								2															1.1	
	230+72.32	RT 100	LT		I-417-2	4.34																	1				9.3	
	230+31.38 TO 230+77.91	RT 100	RT	SS-415-2						43																	21.5	
	230+77.91	RT 100	RT		MH-415-2	4.80										1											10.2	
	231+76.61	RT 100	RT		I-419	3.13															1						12.4	
	231+76.61 TO 231+86.93	RT 100	RT	SS-419-2					17																		6.2	
	231+86.93	RT 100	RT		MH-419	3.48										1											7.7	
	231+86.93 TO 233+53.97	RT 100	RT	SS-419A					162																		74.3	
	233+53.97	RT 100	RT		I-419A	4.77															1						17.7	
	236+62.16	RT 100	RT		I-420	6.10																	1				12.6	
	237+05.26	RT 100	LT		I-421	4.47										1											9.6	
	237+05.26 TO 237+10.98	RT 100	LT	SS-421-2					10																		5.1	
	237+05.26 TO 237+77.75	RT 100	LT	SS-421A-1					69																		34.5	
	237+10.98	RT 100	LT		MH-421	5.26										1											11.0	
	237+77.75	RT 100	LT		I-421A-1	4.64																	1				9.9	
	237+77.75 TO 237+83.60	RT 100	LT	SS-421A-2					2																		1.0	
	237+83.60	RT 100	RT		I-421A-2	4.45																	1				9.5	
	241+35.15	RT 100	RT		MH-421-1	9.62										1											19.1	
	241+35.32	RT 100	RT		MH-421-2	9.97										1											19.8	
	241+35.32 TO 241+57.53	RT 100	LT	SS-421B						18																	9.5	
	241+35.63	RT 100	RT		I-422 EX	9.79																		1	1			
	241+35.89	RT 100	RT		MH-422	10.57										1											20.9	
	241+35.89 TO 242+77.28	RT 100	RT	SS-422A-1						137																	69.3	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI ENGINEERING
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 7 OF 8

DRAINAGE STRUCTURES AND PIPE CULVERTS

PLAN SHEET	STATION	ROADWAY	LOCATION	MSD DRAINAGE STRUCTURE ID#	MODOT DRAINAGE STRUCTURE ID#	STRUCTURE ACTUAL DEPTH	PIPES CONNECTED TO DRAINAGE STRUCTURE	CLASS III RCP								MSD STANDARD												REMARKS
								12″	15″	18″	21″	24″	27″	30″	36″	PRECAST MANHOLE 48″	PRECAST MANHOLE 60″	PRECAST MANHOLE 72″	AREA INLET 58″X58″	SINGLE STREET INLET 54″X48″	DOUBLE STREET INLET 108″X52″	2 GRATE INLET 48″X48″	2 GRATE INLET W/ SIDE INTAKE 48″X48″	ADA COMPLIANT GRATE	ADJUST TO GRADE	CLEANOUT DRAINAGE STRUCTURE AND PIPE	CLASS 3 EX	
								LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	
	241+57.53	RT 100	LT		I-421B	4.87																	1				10.3	
	241+57.53 TO 242+79.55	RT 100	LT	SS-421C						119																	67.9	
	242+77.28	RT 100	RT		I-422A	4.05															1						15.4	
	242+77.28	RT 100	RT		MH-422A-1	4.64										1											9.9	
	242+77.28 TO 242+77.28	RT 100	RT	SS-422A-2						5																	2.4	
	242+77.28 TO 243+97.17	RT 100	RT	SS-422A-3						116																	64.1	
	242+79.55	RT 100	LT		I-421C	5.51																	1				11.5	
	242+79.55 TO 244+05.82	RT 100	LT	SS-421D						123																	76.8	
	243+97.17	RT 100	RT		MH-422A-2	5.40										1											11.3	
	243+97.17 TO 244+96.00	RT 100	RT	SS-422B-1						94																	52.2	
	244+05.82	RT 100	LT		I-421D	5.83																	1				12.1	
	244+96.00	RT 100	RT		I-422B	4.70															1						17.5	
	244+96.00 TO 246+27.66	RT 100	RT	SS-422B-2						124																	66.4	
	246+27.66	RT 100	RT		MH-422B	5.04										1											10.6	
	246+27.66 TO 247+31.62	RT 100	RT	SS-422C						95																	53.0	
	247+31.62	RT 100	RT		I-422C	5.10															1						18.8	
	255+66.81	RT 100	RT		MH-430	2.51										1											5.9	
	255+66.81 TO 255+80.28	RT 100	RT	SS-430-1					10																		3.0	
	255+67.47	RT 100	LT		MH-431	3.33										1											7.4	
	255+67.47 TO 255+88.03	RT 100	LT	SS-431-2					17																		6.9	
	255+80.28	RT 100	RT		I-430-1	2.93																	1				6.7	
	255+80.28 TO 255+86.11	RT 100	RT	SS-430-2					2																		0.7	
	255+86.11	RT 100	RT		I-430-2	3.03																	1				6.9	
	255+88.03	RT 100	LT		I-431-1	4.10																	1				8.9	
	255+88.03 TO 255+93.86	RT 100	LT	SS-431-3					2																		0.9	
	255+93.86	RT 100	LT		I-431-2	4.35																	1				9.3	
	263+15.45	RT 100	LT		I-435A	2.14														1							5.2	
	263+15.45 TO 263+42.18	RT 100	LT	SS-435A				25																			5.6	
	264+75.06 TO 266+32.11	RT 100	LT	SS-435B					155																		74.5	
	266+32.11	RT 100	LT		I-435B	4.38														1							9.4	
	266+32.11 TO 268+82.59	RT 100	LT	SS-435D					245																		129.3	
	266+38.48	RT 100	RT		I-436	4.58															1						17.1	
	266+38.48 TO 266+41.21	RT 100	RT	SS-436					3																		1.4	
	266+41.21	RT 100	RT		MH-436	4.10										1											8.9	
	268+21.43	RT 100	RT	22M1-094D																					1			
	268+39.18	RT 100	RT	22M1-093D																					1			
	268+82.59	RT 100	LT		I-435D	5.22															1						19.2	
							TOTALS	30	3115	7081	649	1642	18	308		78	3	1	1	37*	66*	2	43*	1	5	1	10577	

* NOTE:
1. QUANTITIES FOR SINGLE STREET INLET 54″ X 48″ INCLUDE 1 TRAPPED INLET.
2. QUANTITIES FOR DOUBLE STREET INLET 108″ X 52″ INCLUDE 2 TRAPPED INLETS.
3. QUANTITIES FOR 2 GRATE INLET W/ SIDE INTAKE 48″ X 48″ INCLUDE 1 TRAPPED INLET.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 8 OF 8

PERMANENT STRIPING

SHEET NO.	ROADWAY	WATERBORNE PAVMENT MARKING PAINT, TYPE L BEADS							PREFORMED THERMOPLASTIC PAVMENT MARKING								
		6" WHITE			4" YELLOW	4" YELLOW						ARROWS			BIKE		
		SOLID LF	INTER. LF	DOTTED LF	DOTTED LF	SOLID LF	INTER. LF	DOUBLE LF	24" S.W. STOP BAR LF	30" WHITE MIDBLOCK EACH	12" WHITE YIELD LINE TRIANGLES EACH	STRAIGHT ARROW EACH	LEFT/RIGHT ARROW EACH	STRAIGHT LT/RT ARROW EACH	BIKE LANE ARROW EACH	BIKE LANE BIKE EACH	SHARED USE SHARROW EACH
PM001	RTE 100	893	2079			60		1541	157			4	4				
PM002	RTE 100	1355	2145			40		1581	153	1	2	4	8	6			
PM003	RTE 100	2138	2163			620		1695	179		1	5	12	1			
PM004	RTE 100	521	2700					1454	98	1	2		3				
PM005	RTE 100	2813	2700					1495	80	1	2		2	2			
PM006	RTE 100	4403	2145			770		1180	168		1		18	0			
PM007	RTE 100	3208	2525			388		976	88	1	2		7				
PM008	RTE 100	2782	2750					1375	55	1	2						
PM009	RTE 100	2054	2272			62		1153	49				2				
PM010	RTE 100	4022	2138			675		941	151		2		15	1			
PM011	RTE 100	2704	2700					1515	56	1	2		1				
PM012	RTE 100	2107	2140					1233	87		1		1	3			
PM013	RTE 100	3027	1033		71	1246	740	925	149				8	2			
PM014	RTE 100	3322	2135			1538	1095	308	149				16				
PM015	RTE 100	3710	2165			730		1436	141				7	3			
PM016	RTE 100	1902	2500					1250	69	1	2						
PM017	RTE 100	6401	2165	272		931		1250	144		4		12		7	7	2
PM018	RTE 100	3631	1915			961		977	143				11				
PM019	RTE 100	3092	2273			466		1220	93				6				
FACTORS		1.00	0.25	0.25	0.25	1.00	0.25	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TOTAL LENGTH		54085	42643	272	71	8487	1835	23505	2209	7	23	13	133	18	7	7	2
ADJUSTED TOTAL		54.085	10.661	68	18	8.487	459	47.010	2.209	7	23	13	133	18	7	7	2
PAY TOTAL		64.814			18	55.956			2.209	7	23	13	133	18	7	7	2

NTCIP COMPLIANT CHANGEABLE MESSAGE SIGN
6 EA.

TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING
LUMP SUM = 1

TEMPORARY PAVEMENT MARKING

TCP SHEET NO.	STAGE	PLACE 6" S.W. PAINT LF	PLACE 6" S.Y. PAINT LF	PLACE 6" D.S.Y. PAINT LF	REMOVE EXIST S.W. PAINT	REMOVE EXIST D.S.Y. PAINT	REMOVE 6" S.W. PAINT LF	REMOVE 6" S.Y. PAINT LF	REMOVE 6" D.S.Y. PAINT LF
TCP002	1	1750	650	490	1750	490	690	650	
TCP003	1	1030	230	120	1030	120	790	230	
TCP004	2	1600	250	380			1220	250	380
TCP005	2	1095	405	270			825	405	270
TCP006	1	718	180	100	718	100	718	180	100
TCP007	1	1110	240	90	1110	90	1110	240	90
TCP008	2	1120	250	95			1120	250	95
TCP009	2	635	410	90			635	410	90
TOTAL		9.058	2.715	1.635	4.608	800	7.108	2.615	1.025
PAY TOTAL		9.058	2.715	1.635	4.608	800	7.108	2.615	1.025

TEMPORARY SHORING
LUMP SUM = 1

TEMPORARY TRAFFIC CONTROL
LUMP SUM = 1

EROSION CONTROL

SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LOC	SILT FENCE LF	CURB INLET CHECK EA	ALT. INLET CHECK EA	TYPE C BERM LF	SEDIMENT REMOVAL CY
EC001	RTE 100	0+00	13+00	LT/RT	232	2			4
EC002	RTE 100	13+00	26+50	LT/RT	285	1			4
EC003	RTE 100	26+50	39+50	LT/RT	1741	2		242	19
EC004	RTE 100	39+50	53+00	LT/RT	537	2			7
EC005	RTE 100	53+00	66+50	LT/RT	1782	8	6		28
EC006	RTE 100	66+50	80+00	LT/RT	1480	3			17
EC007	RTE 100	80+00	127+25	LT/RT	773	3			10
EC008	RTE 100	127+25	141+00	LT/RT	538	2			7
EC009	RTE 100	141+00	152+50	LT/RT	449	3		214	7
EC010	RTE 100	152+50	165+00	LT/RT	353				4
EC011	RTE 100	165+00	178+50	LT/RT	758				8
EC012	RTE 100	178+50	191+00	LT/RT	977	3			12
EC013	RTE 100	191+00	204+00	LT/RT	545	6			9
EC014	RTE 100	204+00	217+00	LT/RT	1542	2			17
EC015	RTE 100	217+00	230+50	LT/RT	918	11			16
EC016	RTE 100	230+50	243+00	LT/RT	1309	2			15
EC017	RTE 100	243+00	256+00	LT/RT	1181	3			14
EC018	RTE 100	256+00	268+50	LT/RT	1284				13
EC019	RTE 100	268+50	283+00	LT/RT	628				7
				TOTAL	17.312	53	6	456	218

TEMPORARY PAVEMENT

SHEET NO.	STATION	STATION	ROADWAY	LOC	1" BP-1 (TONS)	6" PMBB (TONS)	4" TYPE 5 AGGR. (SY)	CLASS A EXCAVATION (CY)	REMARKS
TCP002	59+82	69+38	ROUTE 100	LT	55.4	331.2	1022.6	312.5	LEFT SHOULDER
TCP003	61+02	71+08	ROUTE 100	RT	69.2	413.9	1278.1	390.5	RIGHT SHOULDER
				TOTAL	124.6	745.1	2300.8	703.02	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE: 100 | STATE: MO

DISTRICT: SL | SHEET NO.: QU001

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

EFFECTIVE: 10-01-2019

WARNING SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00	3	48	2	32	14	REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00	3	48	2	32	15	REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00	1	16			6A	MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
W05-1	48X48	16.00	2	32			34	ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00	2	10			44A	NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25	1	6.25			31	ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	27	432	9	144	2	ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00	2	32			64	DETOUR AHEAD
W020-3	48X48	16.00	5	80			67/68	ROAD CLOSED AHEAD
W020-4	48X48	16.00	2	32			24	ONE LANE ROAD AHEAD
W020-5	48X48	16.00	17	272	4	64	5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	14	224	4	64	6	RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	2	32			27	FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00	4	64			22	SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

GUIDE SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00						ROAD WORK NEXT XX MILES
G020-2	48X24	8.00						END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00						WORK ZONE (PLAQUE)
M04-8a	24X18	3.00	2	6			61	END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)

REGULATORY SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	8	96	4	48	21	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00	3	36	2	24	7	KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	1	2				SIDEWALK CLOSED
R9-10	24X12	2.00	2	4				SIDEWALK CLOSED USE OTHER SIDE
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	2	20			62	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	1	12.5			60	ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)

MISCELLANEOUS SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-7	48X24	8.00						RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE
CONST-9			2					DETOUR WEST 100 - RIGHT
CONST-10			2					DETOUR WEST 100 - AHEAD LEFT
CONST-11			2					DETOUR WEST 100 - LEFT
CONST-12			4					DETOUR EAST 100 - AHEAD RIGHT
CONST-13			3					DETOUR EAST 100 - RIGHT
CONST-14			2					DETOUR EAST 100 - AHEAD LEFT
CONST-15			2					DETOUR EAST 100 - LEFT
CONST-16			1					WEST 100 - CLOSED 4 MI. AHEAD
CONST-17			1					EAST 100 - CLOSED 5 MI. AHEAD

616-10.05 CONSTRUCTION SIGNS	TOTAL
	1507

616-10.10 RELOCATED SIGNS*	TOTAL

* NO DIRECT PAYMENT FOR RELOCATED SIGNS
** ITEMS INCLUDED IN TEMPORARY TRAFFIC CONTROL, LUMP SUM

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008		ADVANCED WARNING RAIL SYSTEM
6161009		FLAG ASSEMBLY
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	928**	CHANNELIZER (TRIM LINE)
6161030	24**	TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHTS
6161033	99**	DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	15**	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161052		WARNING LIGHT, TYPE B
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	6	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D	1310	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A	1260	RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	QU002

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

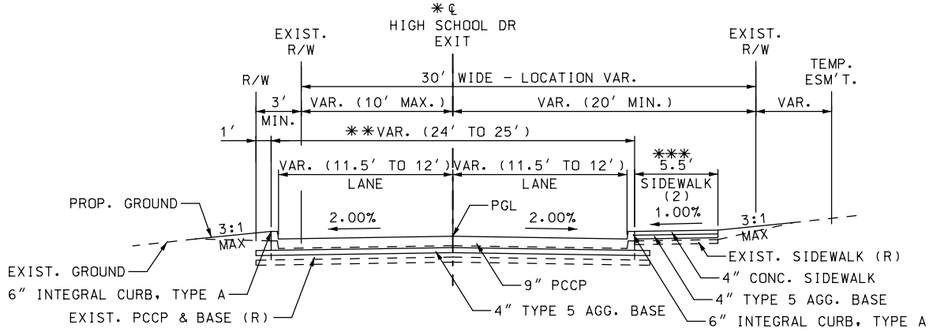
BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



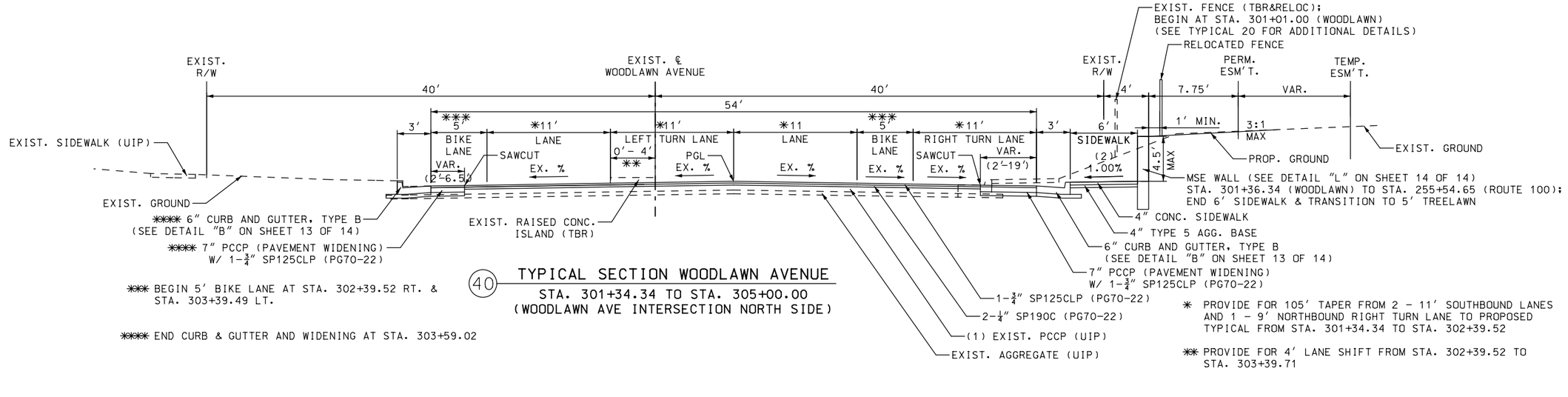
39 TYPICAL SECTION - HIGH SCHOOL DRIVE (EXIT)
NEW PAVEMENT
STA. 134+04.68 TO STA. 134+80.00

HIGH SCHOOL DRIVE (EXIT) NOTES:

* HIGH SCHOOL DRIVE TO BE REALIGNED; SEE PLANS FOR ADDITIONAL INFORMATION REGARDING PROPOSED ALIGNMENT, ROADWAY LAYOUT & RIGHT OF WAY

** TAPER FROM 11.5' TO 12' LANES FROM STA. 134+20.00 TO STA. 134+55.00

*** PROVIDE FOR 5.5' SIDEWALK FROM STA. 134+04.68 TO STA. 134+29.00; TRANSITION TO 5' SIDEWALK W/ VARIABLE WIDTH TREELAWN SEE PLANS FOR DETAILS



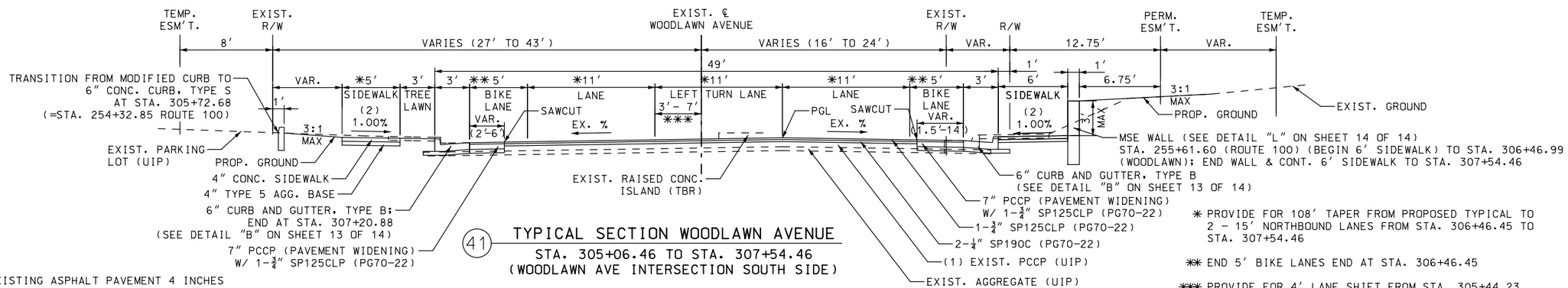
40 TYPICAL SECTION WOODLAWN AVENUE
STA. 301+34.34 TO STA. 305+00.00
(WOODLAWN AVE INTERSECTION NORTH SIDE)

*** BEGIN 5' BIKE LANE AT STA. 302+39.52 RT. & STA. 303+39.49 LT.

**** END CURB & GUTTER AND WIDENING AT STA. 303+59.02

* PROVIDE FOR 105' TAPER FROM 2 - 11' SOUTHBOUND LANES AND 1 - 9' NORTHBOUND RIGHT TURN LANE TO PROPOSED TYPICAL FROM STA. 301+34.34 TO STA. 302+39.52

** PROVIDE FOR 4' LANE SHIFT FROM STA. 302+39.52 TO STA. 303+39.71



41 TYPICAL SECTION WOODLAWN AVENUE
STA. 305+06.46 TO STA. 307+54.46
(WOODLAWN AVE INTERSECTION SOUTH SIDE)

NOTES:

(1) MILL EXISTING ASPHALT PAVEMENT 4 INCHES (APPROXIMATE DEPTH TO EXISTING CONCRETE PAVEMENT) AND FILL WITH 4" ASPHALT PAVEMENT AS SPECIFIED ON THE TYPICAL SECTIONS.

(2) ALL NEW SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

* PROVIDE FOR 6' SIDEWALK AT BACK OF CURB FROM STA. 253+90.99 (ROUTE 100) TO STA. 306+00.64; TRANSITION TO 5' SIDEWALK W/ 3' TREELAWN

END SIDEWALK AT STA. 307+26.88; MATCH EXIST. SIDEWALK.

* PROVIDE FOR 108' TAPER FROM PROPOSED TYPICAL TO 2 - 15' NORTHBOUND LANES FROM STA. 306+46.45 TO STA. 307+54.46

** END 5' BIKE LANES END AT STA. 306+46.45

*** PROVIDE FOR 4' LANE SHIFT FROM STA. 305+44.23 TO STA. 306+11.19

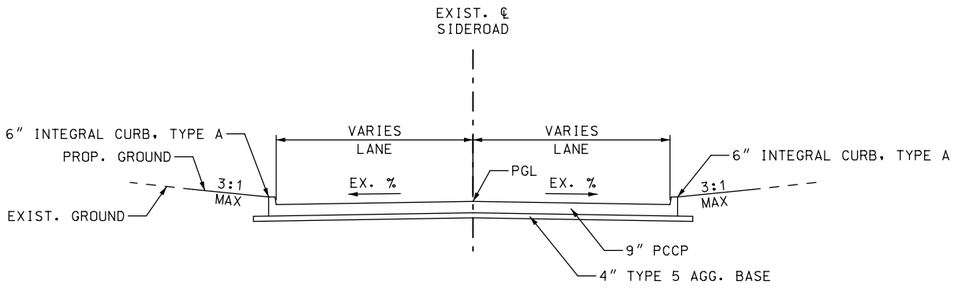
DATE PREPARED: 3/13/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 2
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B/C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION | DATE | REV.

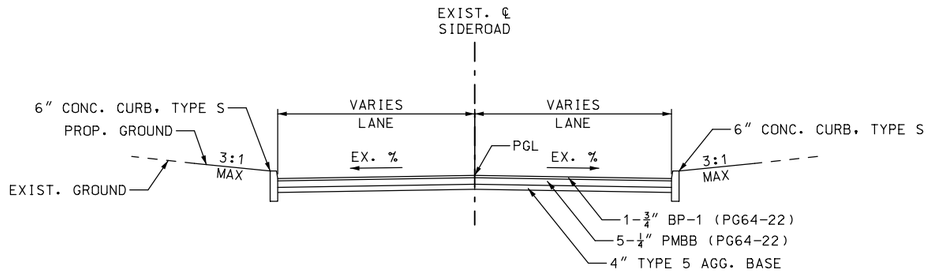
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

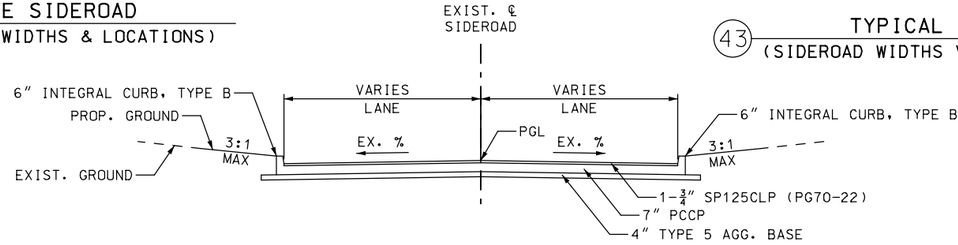
TYPICAL SECTIONS
ROUTE 100
SHEET 12 OF 14



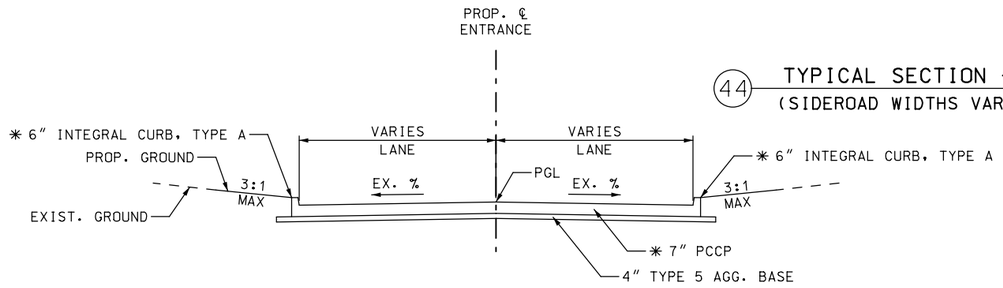
42 TYPICAL SECTION – CONCRETE SIDEROAD
(SIDEROAD WIDTHS VARY; SEE PLANS FOR WIDTHS & LOCATIONS)



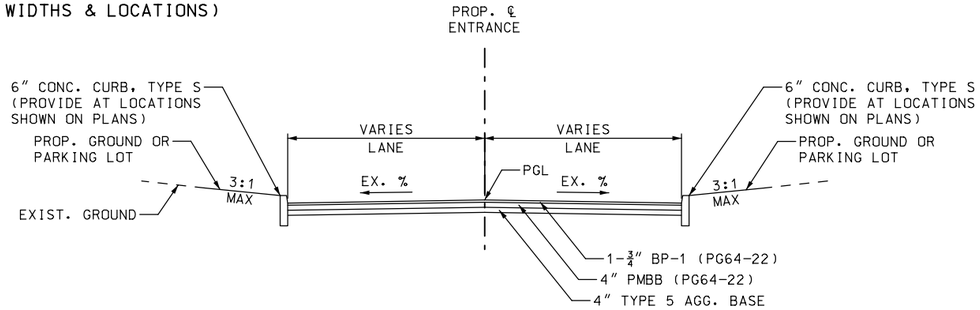
43 TYPICAL SECTION – ASPHALT SIDEROAD
(SIDEROAD WIDTHS VARY; SEE PLANS FOR WIDTHS & LOCATIONS)



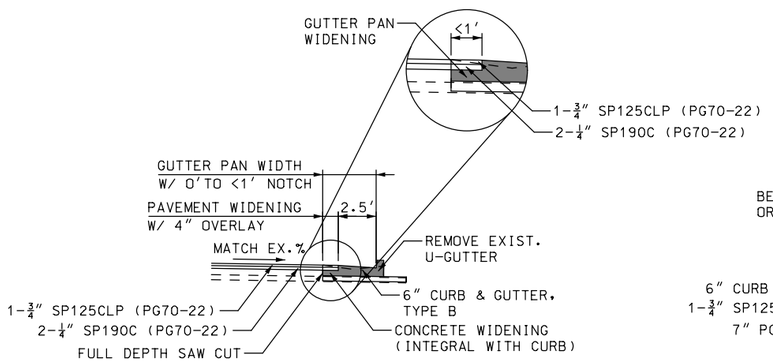
44 TYPICAL SECTION – CONCRETE SIDEROAD W/ OVERLAY
(SIDEROAD WIDTHS VARY; SEE PLANS FOR WIDTHS & LOCATIONS)



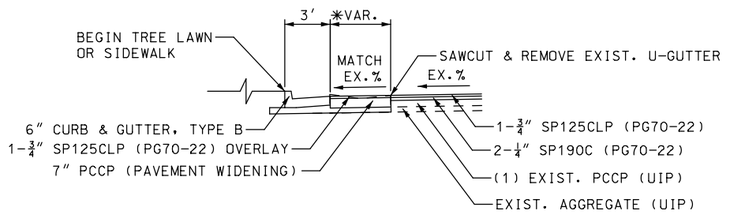
45 TYPICAL SECTION – ENTRANCE
(ENTRANCE WIDTHS VARY; SEE PLANS FOR WIDTHS & LOCATIONS)
✳ PAID FOR AS PAVED APPROACH (7 IN.); SEE STANDARD PLANS



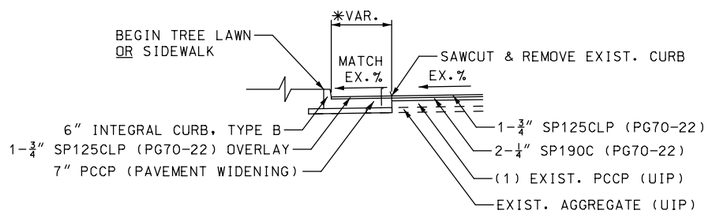
46 TYPICAL SECTION – ASPHALT TIE-IN (FOR ENTRANCES)
(ENTRANCE WIDTHS VARY; SEE PLANS FOR WIDTHS & LOCATIONS)



A CURB & GUTTER DETAIL
PAVEMENT WIDENING <1'



B CURB & GUTTER DETAIL
PAVEMENT WIDENING 1' OR GREATER
✳ SEE PLANS FOR LOCATIONS & WIDTHS



C INTEGRAL CURB DETAIL
PAVEMENT WIDENING 1' OR GREATER
✳ SEE PLANS FOR LOCATIONS & WIDTHS

DATE PREPARED
3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY
ST. LOUIS
JOB NO.
J6S1718/J6S1718B/C
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

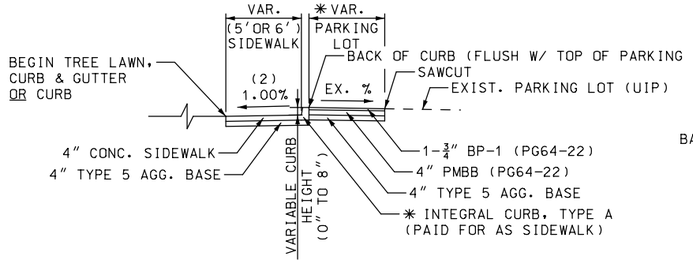
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

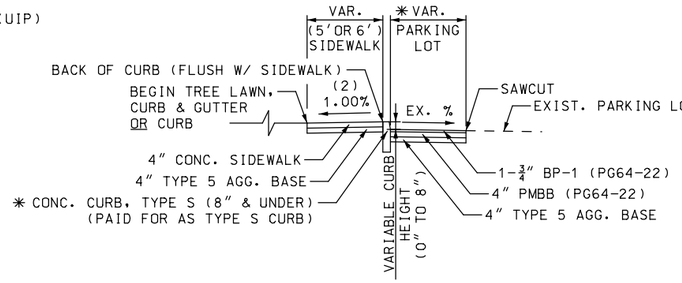
TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

TYPICAL SECTIONS
ROUTE 100
SHEET 13 OF 14

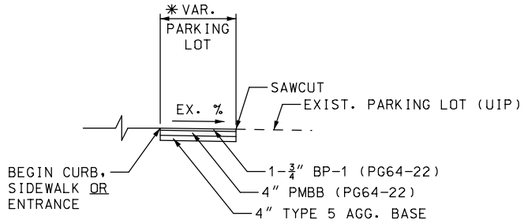
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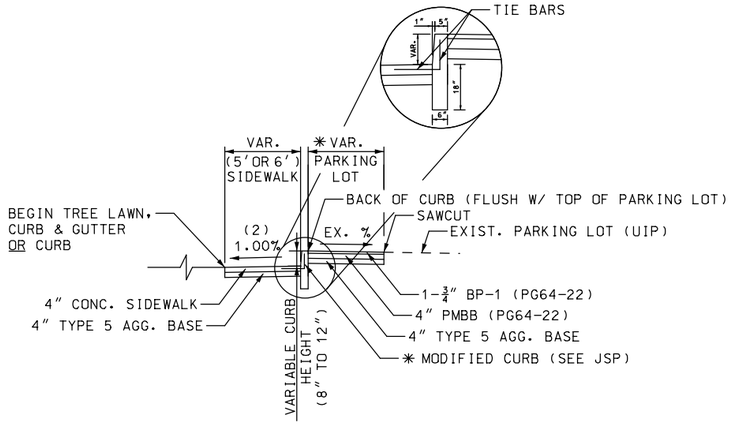
D INTEGRAL CURB DETAIL
STANDARD CURB AT BACK OF SIDEWALK
✳ SEE PLANS FOR LOCATIONS & WIDTHS



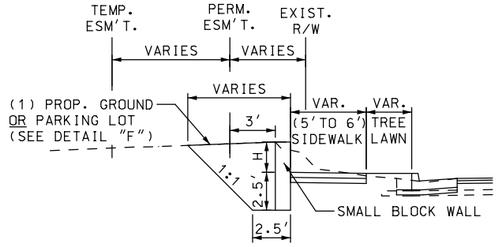
E TYPE S CURB DETAIL
STANDARD CURB AT BACK OF SIDEWALK
✳ SEE PLANS FOR LOCATIONS & WIDTHS



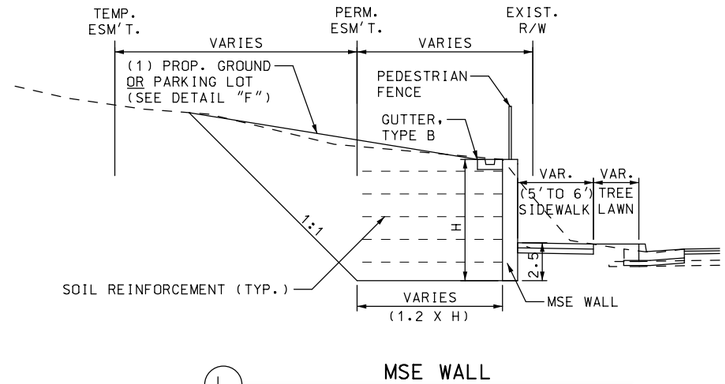
F ASPHALT TIE-IN PAVEMENT
PARKING LOT REPLACEMENT
✳ SEE PLANS FOR LOCATIONS & WIDTHS



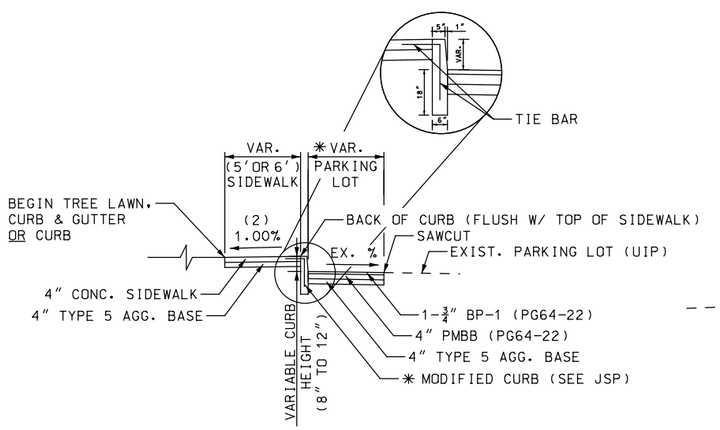
G MODIFIED CURB DETAIL
CUT SECTION
CURB HEIGHTS 8" TO 12" MAX
✳ SEE PLANS FOR LOCATIONS & WIDTHS



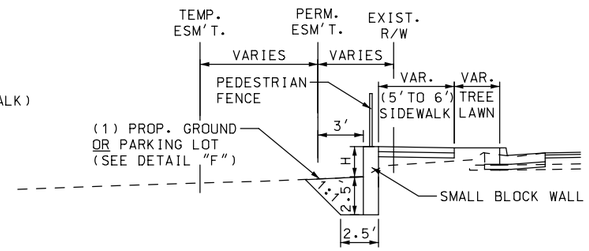
J SMALL BLOCK WALL
CUT SECTION
WALL HEIGHT (H) VARIES 12" TO 24" MAX
(SEE PLANS FOR LOCATIONS & WALL DETAILS)



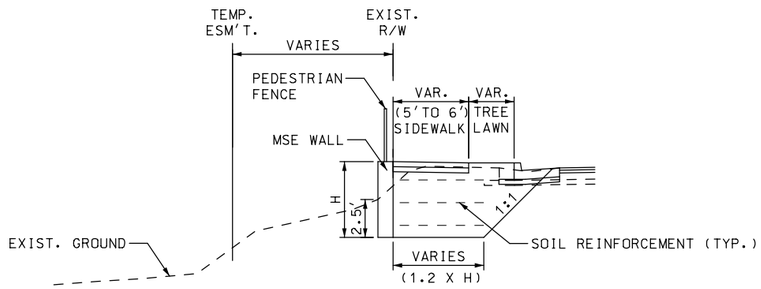
L MSE WALL
CUT SECTION
WALL HEIGHT (H) GREATER THAN 24"
(SEE PLANS FOR LOCATIONS &
STANDARD DRAWINGS FOR MSE WALL DETAILS)



H MODIFIED CURB DETAIL
FILL SECTION
CURB HEIGHTS 8" TO 12" MAX
✳ SEE PLANS FOR LOCATIONS & WIDTHS



K SMALL BLOCK WALL
FILL SECTION
WALL HEIGHT (H) VARIES 12" TO 24" MAX
(SEE PLANS FOR LOCATIONS & WALL DETAILS)



M MSE WALL
FILL SECTION
WALL HEIGHT (H) GREATER THAN 24"
(SEE PLANS FOR LOCATIONS &
STANDARD DRAWINGS FOR MSE WALL DETAILS)

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

TYPICAL SECTIONS
ROUTE 100
SHEET 14 OF 14

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\002_TS_01_J6S1718_I5.dgn 3:24:19 PM 3/13/2020

LEGEND
MILL & FILL LIMITS
NEW ASPHALT PAVEMENT
NEW CONCRETE PAVEMENT
NEW CONCRETE PAVEMENT (TO BE OVERLAID)
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL LAYOUT AT BIG BEND BOULEVARD SHOWN FOR INFORMATION ONLY.

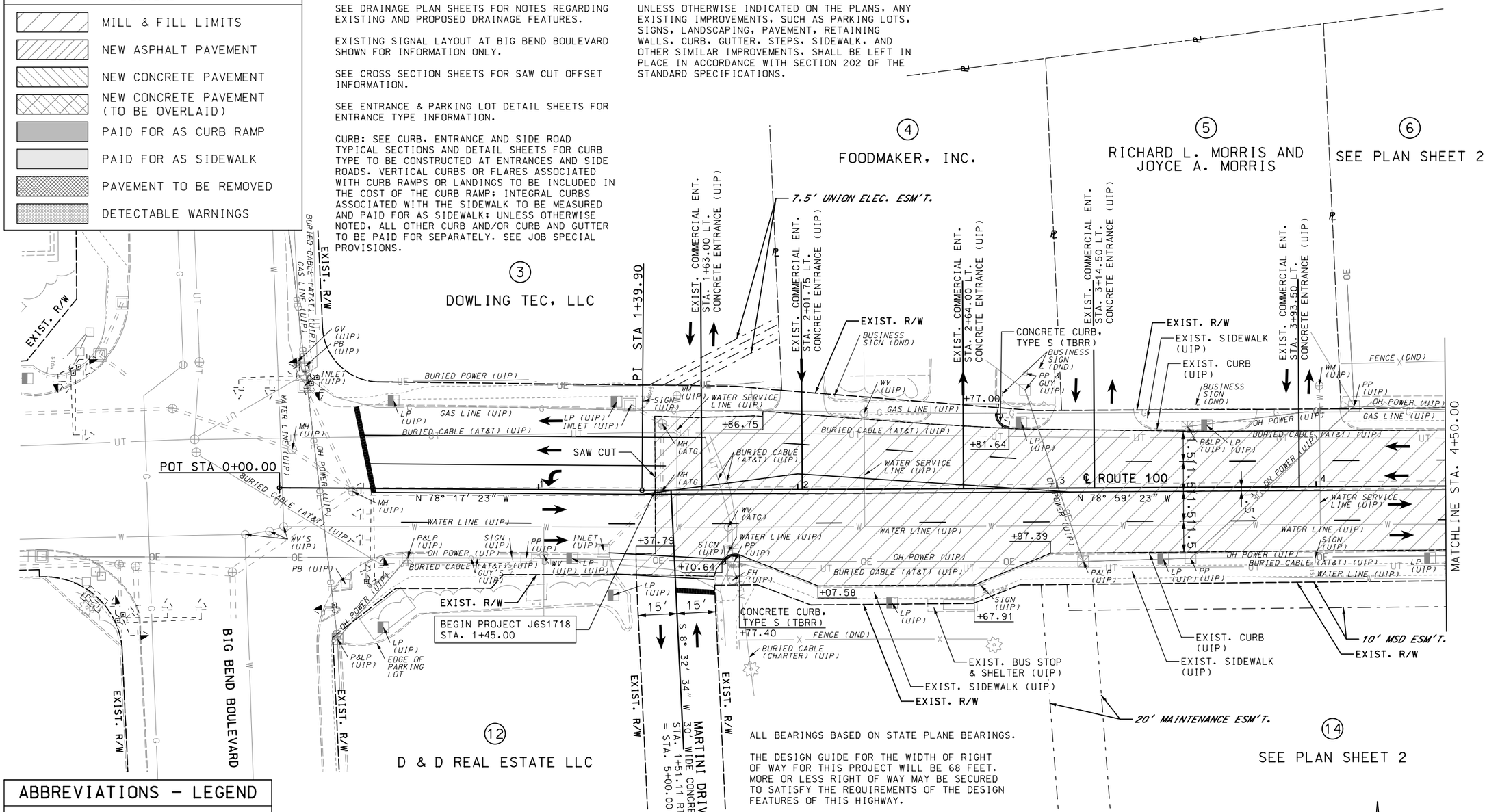
SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.



ABBREVIATIONS – LEGEND	
USE IN PLACE	(UIP)
DO NOT DISTURB	(DND)
ADJUST TO GRADE	(ATG)
ADJUST TO GRADE BY OTHERS	(ATGBO)
REMOVE	(TBR)
TO BE REMOVED AND REPLACED (BY CONTRACTOR)	(TBRR)
TO BE REMOVED AND RELOCATED (BY CONTRACTOR)	(TBR&RELOC)
TO BE REMOVED (BY OTHERS)	(TBRBO)
TO BE REMOVED AND REPLACED (BY OTHERS)	(TBRRBO)
TO BE REMOVED AND RELOCATED (BY OTHERS)	(TBR&RELOCBO)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBAF)

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

ALL BEARINGS BASED ON STATE PLANE BEARINGS.

THE DESIGN GUIDE FOR THE WIDTH OF RIGHT OF WAY FOR THIS PROJECT WILL BE 68 FEET. MORE OR LESS RIGHT OF WAY MAY BE SECURED TO SATISFY THE REQUIREMENTS OF THE DESIGN FEATURES OF THIS HIGHWAY.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 4+85.00 TO STA. 5+17.48, FROM STA. 6+23.55 TO STA. 7+85.00, FROM STA. 21+67.99 TO STA. 24+12.20, STA. 25+00.00 TO STA. 26+40.00, FROM STA. 30+07.64 TO STA. 141+76.52, AND FROM STA. 143+68.40 TO STA. 279+07.31 FROM STA. 280+67.99 TO STA. 281+31.68 FOR A TOTAL DISTANCE OF 4.16 MILES.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.

NO DIRECT PAYMENT WILL BE MADE FOR ANY NECESSARY CLEARING AND GRUBBING.

DISCLAIMER

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SCALE
0 20 40 60

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 4
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

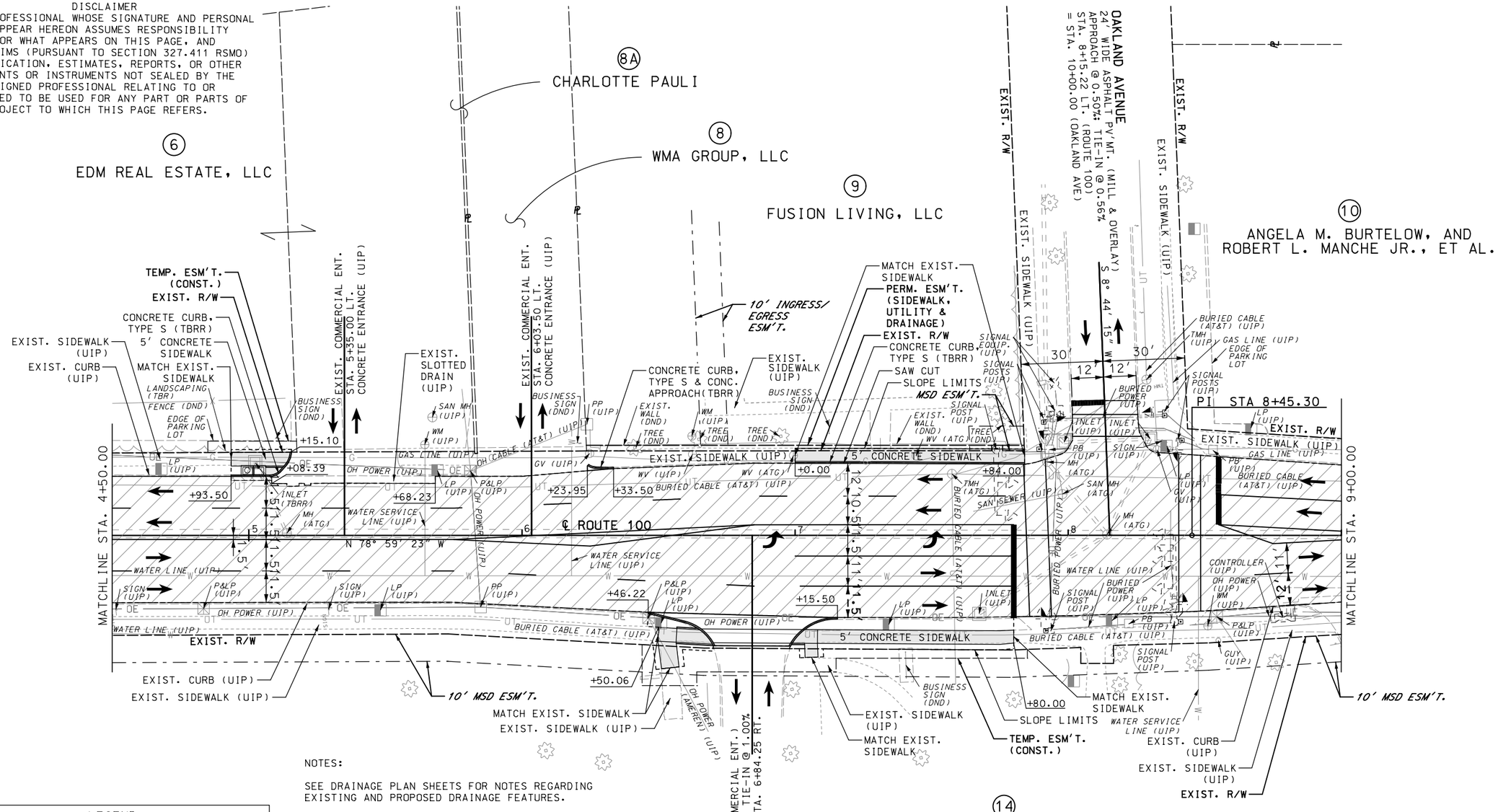
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JEFFERSON CITY, MO 65102
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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 1 OF 52

REV. •

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT OAKLAND AVENUE TO BE LEFT IN PLACE. SIGNAL SHALL BE MODIFIED FOR THE ADDITION OF AUDIBLE PEDESTRIAN SIGNALS (APS); SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 5
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

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PL-AN
ROUTE 100
SHEET 2 OF 52

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

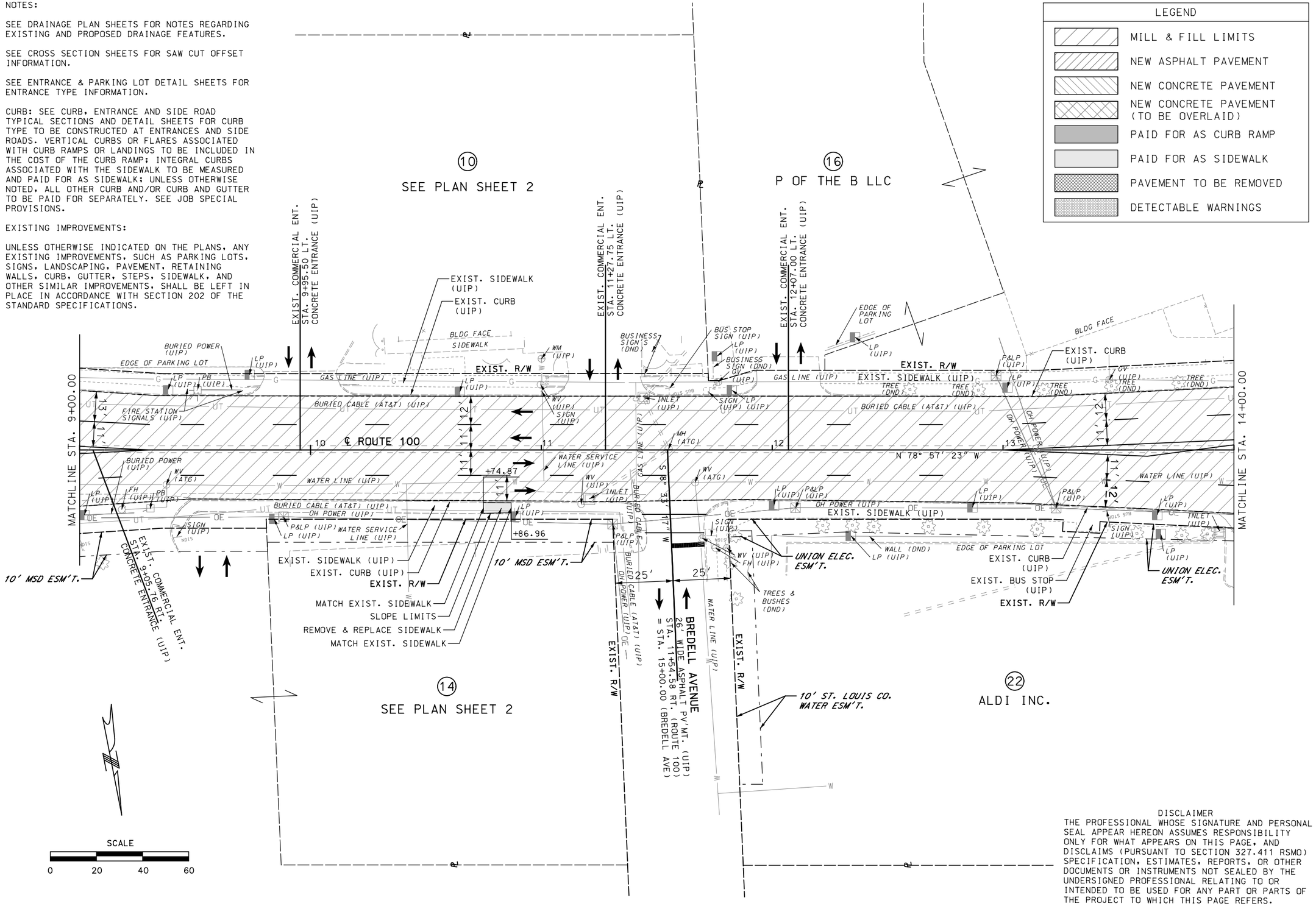
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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 6
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

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MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 3 OF 52

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT LACLEDE STATION ROAD TO BE LEFT IN PLACE. SIGNAL SHALL BE MODIFIED FOR THE ADDITION OF AUDIBLE PEDESTRIAN SIGNALS (APS); SEE SIGNAL PLAN SHEETS FOR DETAILS.

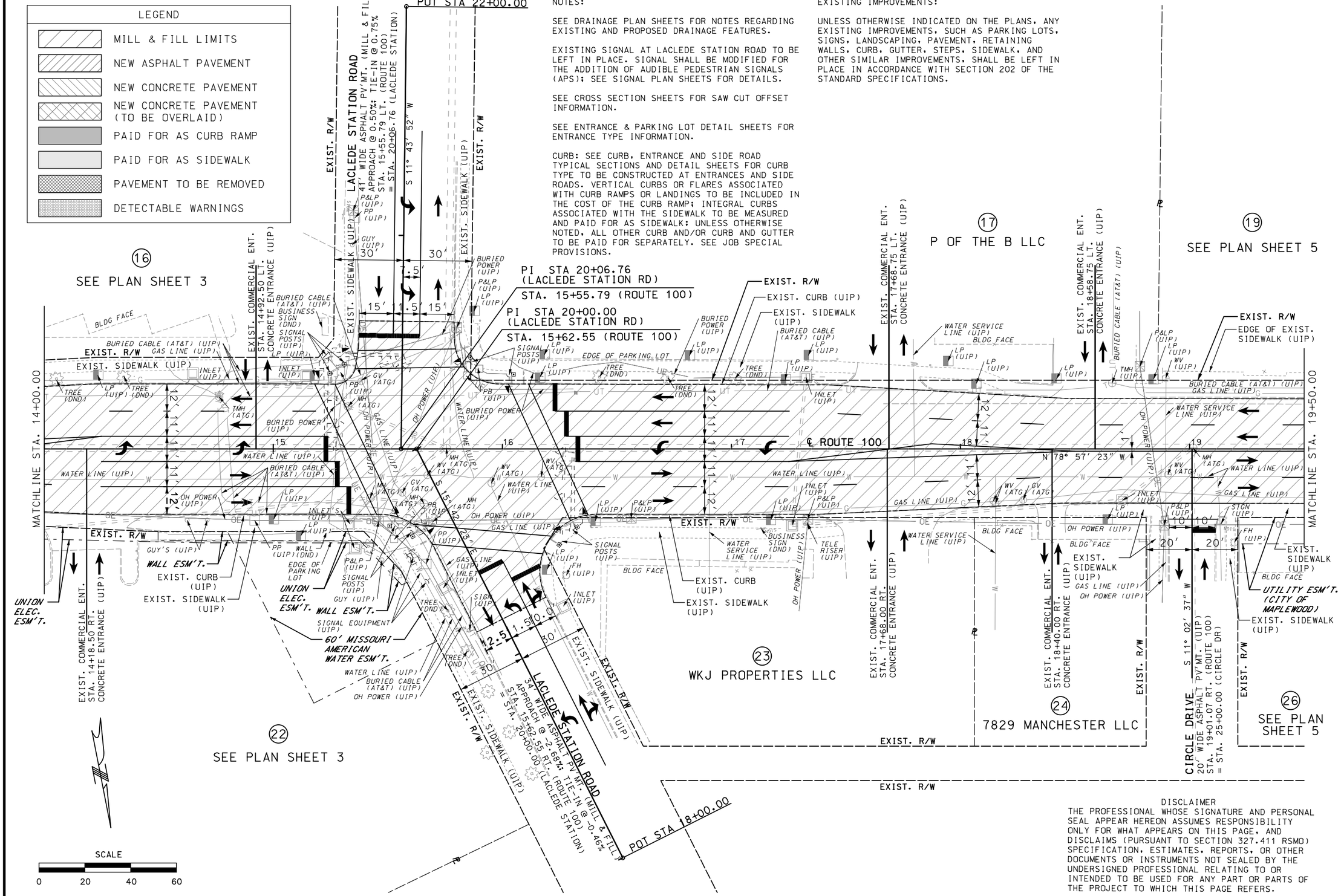
SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 7
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 4 OF 52

REV.

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

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INSTALLATION OF MID-BLOCK CROSSING:

SEE SIGNAL SHEETS FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING, RECTANGULAR RAPID FLASHING BEACON (RRFB), ADVANCED LIGHTING & SIGNING AT CROSSING.

IN ADDITION, SEE PLAN SHEET 6 OF 52 FOR DETAILS REGARDING THE INSTALLATION OF AN ADVANCED RRFB AT STA. 25+50.00, 27' LT.

EXISTING IMPROVEMENTS:

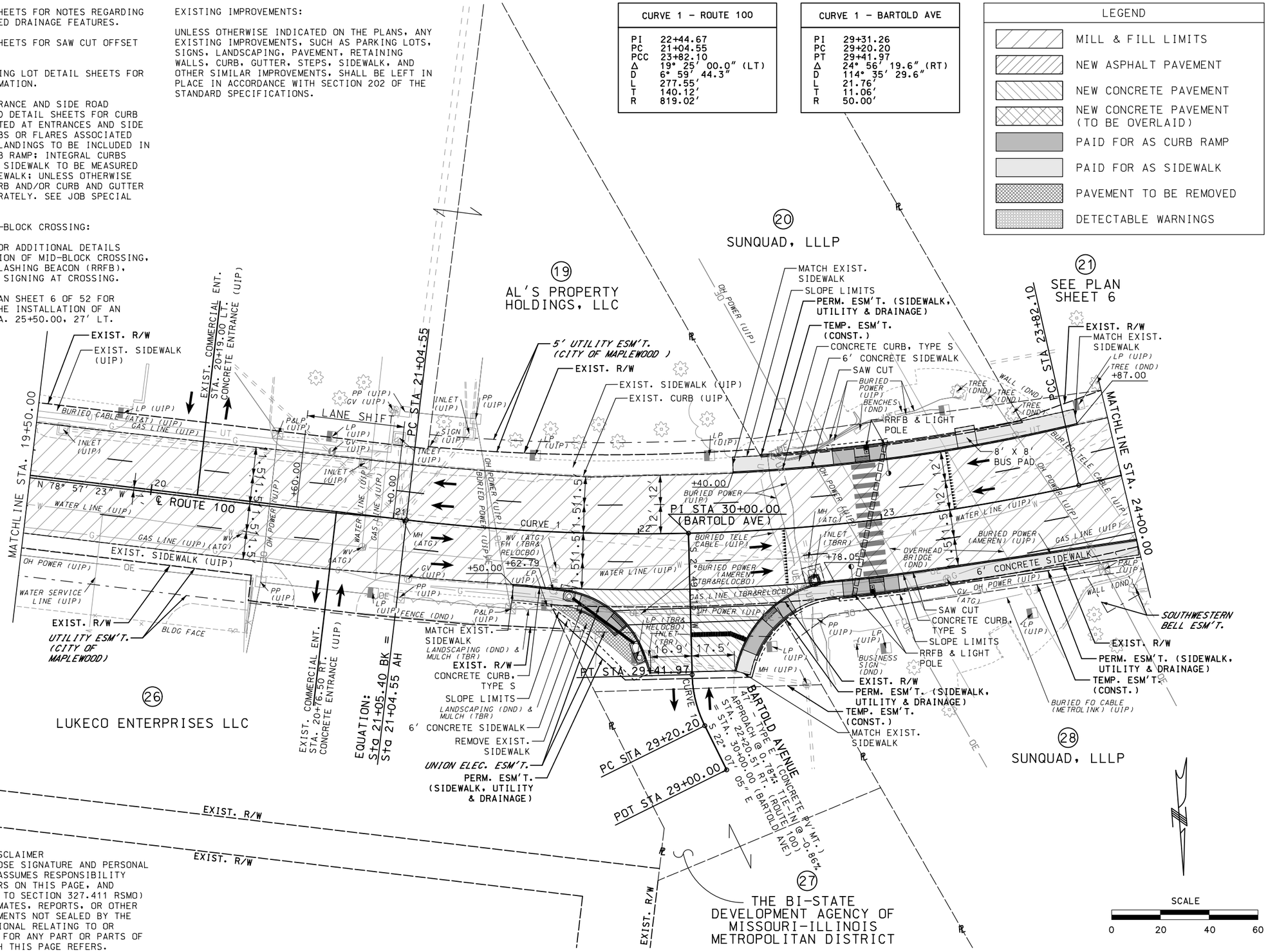
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CURVE 1 – ROUTE 100	
PI	22+44.67
PC	21+04.55
PCC	23+82.10
Δ	19° 25' 00.0" (LT)
D	6° 59' 44.3"
L	277.55'
T	140.12'
R	819.02'

CURVE 1 – BARTOLD AVE	
PI	29+31.26
PC	29+20.20
PT	29+41.97
Δ	24° 56' 19.6" (RT)
D	114° 35' 29.6"
L	21.76'
T	11.06'
R	50.00'

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS



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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 8
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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JEFFERSON CITY, MO 65102
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PLAN
ROUTE 100
SHEET 5 OF 52

REV.

LEGEND	
	MILL & FILL LIMITS
	NEW ASPHALT PAVEMENT
	NEW CONCRETE PAVEMENT
	NEW CONCRETE PAVEMENT (TO BE OVERLAID)
	PAID FOR AS CURB RAMP
	PAID FOR AS SIDEWALK
	PAVEMENT TO BE REMOVED
	DETECTABLE WARNINGS

CURVE 2 – ROUTE 100	
PI	27+42.16
PCC	23+82.10
PT	30+85.17
Δ	30° 28′ 00.0″ (LT)
D	4° 20′ 00.1″
L	703.07′
T	360.06′
R	1,322.20′

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

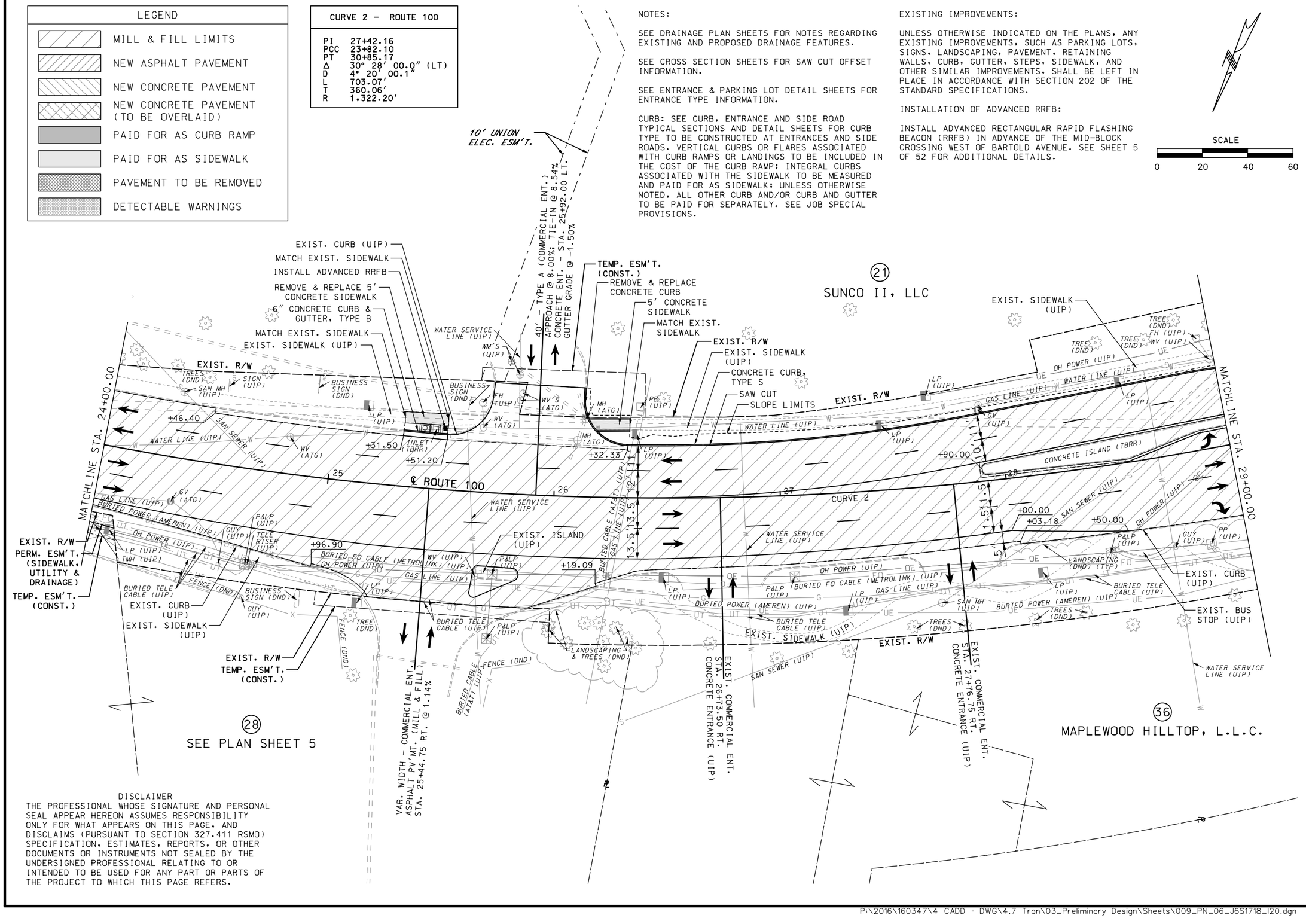
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INSTALLATION OF ADVANCED RRFB:

INSTALL ADVANCED RECTANGULAR RAPID FLASHING BEACON (RRFB) IN ADVANCE OF THE MID-BLOCK CROSSING WEST OF BARTOLD AVENUE. SEE SHEET 5 OF 52 FOR ADDITIONAL DETAILS.

SCALE
0 20 40 60



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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 9
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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PLAN
ROUTE 100
SHEET 6 OF 52

REV.

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LEGEND
MILL & FILL LIMITS
NEW ASPHALT PAVEMENT
NEW CONCRETE PAVEMENT
NEW CONCRETE PAVEMENT (TO BE OVERLAID)
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

CURVE 1 – HANLEY RD	
PI	36+85.77
PC	35+29.13
PT	38+34.94
Δ	30° 34′ 48.6″ (RT)
D	9° 59′ 59.9″
L	305.80′
T	156.64′
R	572.96′

(21) SEE PLAN SHEET 6

** REMOVE BRIDGE G0681
69′ WIDTH (OUT-OUT)
131′ LENGTH
(70′ ARCH OPENING)
BUILD BRIDGE A8717
STA. 31+68.00 TO 32+80.88
(TYPE TBD)
WIDTH = 96′-8″
D.A. = 8.5 MI²
Q_{50} = 6,754 CFS

* PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

SCALE 0 20 40 60

(31) SEE PLAN SHEET 8

(30) SUNNEN PRODUCTS COMPANY

(36) SEE PLAN SHEET 6

(37) OUTDOOR SYSTEMS, INC.

(38) MIRAN INVESTMENT CO

(39) SEE PLAN SHEET 8

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT HANLEY ROAD TO BE REMOVED & REPLACED; SEE SIGNAL PLAN SHEETS FOR DETAILS. SEE PROJECT J6S1718D FOR PROPOSED SIGNAL ENHANCEMENTS AT HANLEY ROAD.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 10
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 7 OF 52

CURVE 3 – ROUTE 100	
PI	35+68.52
PC	34+52.09
PCC	36+81.86
Δ	22° 50′ 00.0″ (RT)
D	9° 56′ 15.1″
L	229.77′
T	116.43′
R	576.56′

CURVE 4 – ROUTE 100	
PI	38+02.23
PCC	36+80.40
PCC	39+23.14
Δ	12° 08′ 00.0″ (RT)
D	4° 59′ 54.3″
L	242.74′
T	121.83′
R	1,146.28′

✳ PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

(31) THE GENE ROBERT FREDERIC, JR. TRUST II

(32) WEI'S INVESTMENT, LLC

(33) SHAM TEKWANI AND NEETA TEKWANI

(41) BESTAR, LLC

(39 & 40) SIMMONS FIRST NATIONAL BANK, ETAL

℄ ROUTE 100

CURVE 3

CURVE 4

PC STA 34+52.09

PCC STA 36+80.40

MATCHLINE STA. 34+00.00

MATCHLINE STA. 39+00.00

BEGIN WATER LINE RELOCATION STA. 36+05.00

EQUATION: Sta 36+81.86 BK = Sta 36+80.40 AH

48′ – TYPE B (COMMERCIAL ENT.) APPROACH @ 10.00%; TIE-IN @ 9.06% CONCRETE ENT. – STA. 34+58.00 LT.

28′ – TYPE B (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN @ 10.68% ASPHALT ENT. – STA. 35+85.00 LT.

30′ – TYPE A (COMMERCIAL ENT.) APPROACH @ 6.50%; TIE-IN NOT REQ'D ASPHALT ENT. – STA. 37+07.50 LT.

28′ – TYPE A (COMMERCIAL ENT.) APPROACH @ 6.50%; TIE-IN @ 2.46% ASPHALT ENT. – STA. 37+72.00 LT.

24′ – TYPE B (COMMERCIAL ENT.) APPROACH @ 7.00%; TIE-IN @ 2.93% ASPHALT ENT. – STA. 38+63.25 LT.

35′ – TYPE A (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN @ 8.73% CONCRETE ENT. – 36+08.00 RT.

30′ – TYPE A (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN @ 7.85% CONCRETE ENT. – 37+09.50 RT.

TEMP. ESM'T. (CONST.)
6″ CONCRETE CURB & GUTTER, TYPE B
7″ CONCRETE PV'MT. WIDENING (w/ 1–2″ OVERLAY)
25′ INGRESS/ EGRESS ESM'T.
EXIST. R/W
R/W LINE
SLOPE LIMITS
LANDSCAPING & TREES (TBR)
CONCRETE CURB, TYPE S
SAW CUT
EXIST. SIDEWALK (R)
WALL (MSE) W/ PED FENCE
BLDG FACE
10′ CONCRETE SIDEWALK
5′ CONCRETE SIDEWALK
EDGE OF PARKING LOT
BUSH (TBR)
BUS STOP SIGN (TBRRBO)
✳ NEW PED. LIGHT POLE (TYP)
REMOVE EXIST. PV'MT. & CURB
EXIST. SIDEWALK (TBR)
SAN SEWER (UIP)
WATER SERVICE LINE (UIP)
WATER LINE (UIP)
GAS LINE (UIP)
OH POWER (TBR&RELOCBO)
GUY (TBR& RELOCBO)
PP (TBR& RELOCBO)
P&LP (TBR&RELOCBO)
TELE RISER (TBR& RELOCBO)
TREE (DND)
BOLLARD (TBR)
FREDRIC ROOFING SIGN (TBR&RELOCBO)
JOYLUCK RESTAURANT SIGN (TBR&RELOCBO)
BUSINESS SIGN (DND)
BODY & DANCE SIGN (TBR& RELOCBO)
SIGN (TBR)
SIGN (UIP)
LP (UIP)
FH (TBR&RELOCBO)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED FO CABLE (METROLINK) (TBR&RELOCBO)
BURIED CABLE (CHARTER) (UIP)
BURIED CABLE (AT&T) (TBR& RELOCBO)
BURIED CABLE (AT&T) (UIP)
INLET (TBR)
INLET (UIP)
MH (ATG)
MH (UIP)
SAN MH (UIP)
GV (ATG)
GV (UIP)
WM (UIP)
WV
WATER LINES
FENCE (TBR)
+05.00
24′ CROSS ACCESS ESM'T.
EXIST. COMMERCIAL ENT. (TO BE REMOVED)
REMOVE CONCRETE REPLACE W/ SOD
TEMP. ESM'T (CONST.)
10′ WATER PIPE ESM'T.
10′ MSD ES'MT.
WATER SERVICE LINE
10′ WATER PIPE ESM'T.
EXIST. R/W
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
SAW CUT
6″ CONCRETE CURB & GUTTER, TYPE B
BUILDING

SCALE
0 20 40 60

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500′ WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED. WATER LINE RELOCATION BEGINS AT STA.36+05.00.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 1-1
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 8 OF 52

REV.

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CURVE 5 – ROUTE 100	
PI	40+97.80
PCC	39+23.14
PT	42+72.29
Δ	4° 24′ 00.0″ (RT)
D	1° 15′ 36.7″
L	349.15′
T	174.66′
R	4,546.55′

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500′ WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

INSTALLATION OF MID-BLOCK CROSSING:

SEE SIGNAL SHEETS FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING, RECTANGULAR RAPID FLASHING BEACON (RRFB), ADVANCED LIGHTING & SIGNING AT CROSSING.

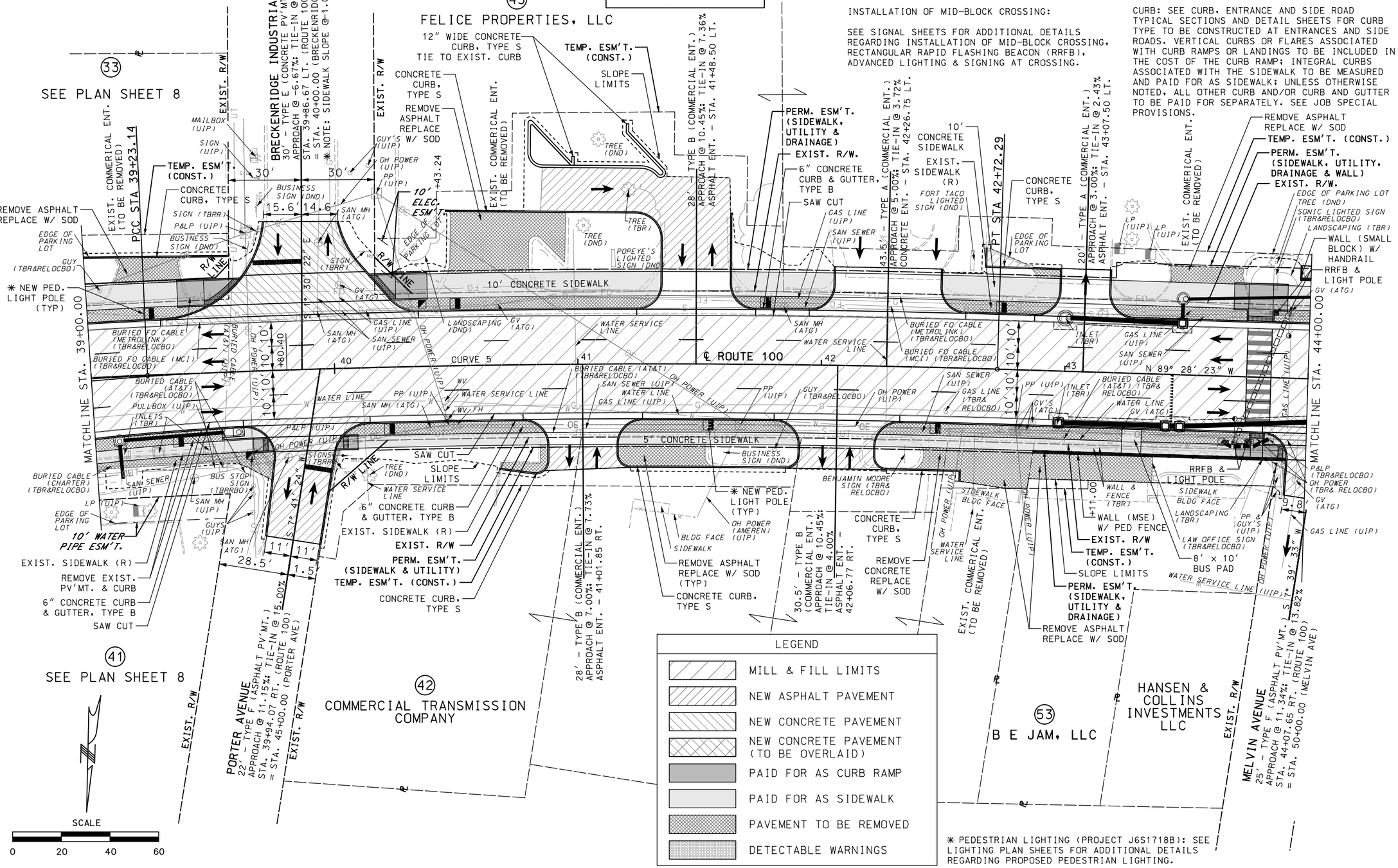
NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.



LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

✳ PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	1-2
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
.	.

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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 9 OF 52

REV.

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** SEE PLAN SHEET 9 OF 52 FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING ON EAST SIDE OF MELVIN AVENUE.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

(43) SEE PLAN SHEET 9

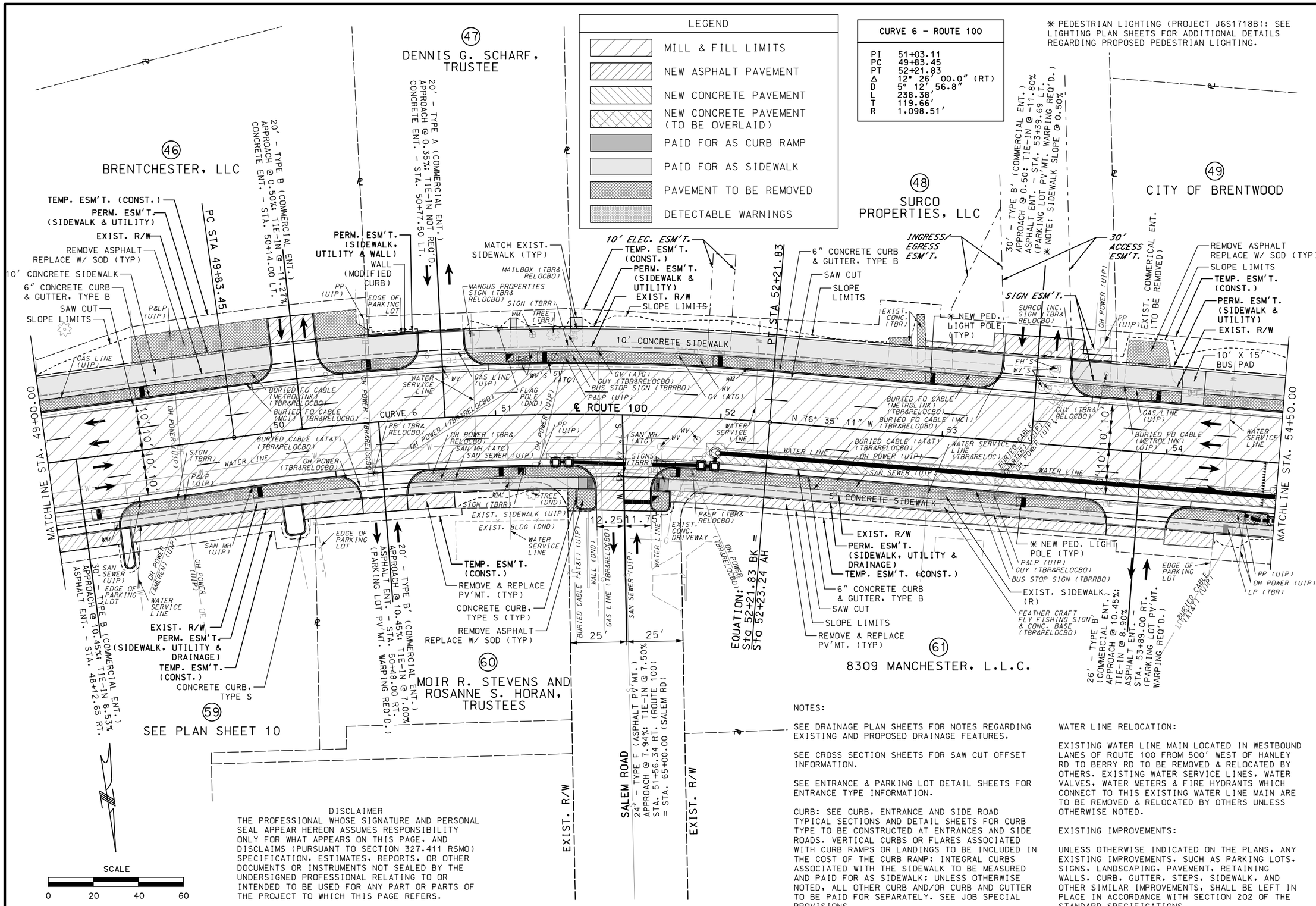
(45) FELICE PROPERTIES, LLC

MERCANTILE DRIVE
49' - TYPE E (CONCRETE PV'MT)
APPROACH @ 8.37%; TIE-IN @ 1.00%
STA. 45+17.12 LT. (ROUTE 100)
= STA. 55+00.00 (MERCANTILE DR)

EXIST. R/W

15' 12' 20'
30' 30'

INTEGRAL CURB, TYPE A
BRENTWOOD INDUST. NON-LIGHTED SIGN (TBR&RELOCBO)
MATCH EXIST. SIDEWALK
TEMP. ESM'T. (CONST.)
R/W LINE
PERM. ESM'T. (SIDEWALK, DRAINAGE & WALL)
EXIST. R/W
EDGE OF PARKING LOT
** SEE NOTE
WALL (SMALL BLOCK) W/ HANDRAIL
10' X 15' BUS PAD
TREES (TBR)
SAN MH (ATG)
BACK STA. 44+19.21
MATCHLINE STA. 44+00.00
S 0° 15' 20" E
GAS LINE (UIP)
BURIED CABLE (AT&T) (UIP)
SIGN (TBRR)
BUSH (TBR)
WATER LINE (UIP)
P&LP (UIP)
GUY'S (TBR&RELOCBO)
TEMP. ESM'T. (CONST.)
R/W LINE
EXIST. SIDEWALK (R)
EDGE OF PARKING LOT
TREES & LANDSCAPING (TBR) (TYP)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
6" CONCRETE CURB & GUTTER, TYPE B
SAW CUT
SLOPE LIMITS
LP (TBR&RELOCBO)
10' CONCRETE SIDEWALK
30' - TYPE B (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN 6.50% ASPHALT ENT. - STA. 47+25.50 LT.
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
BUSINESS SIGN (DND)
EDGE OF PARKING LOT
WM
LP (TBR&RELOCBO)
TREES & LANDSCAPING (TBR) (TYP)
GAS LINE (UIP)
EDGE OF PARKING LOT
* NEW PED. LIGHT POLE (TYP)
MATCHLINE STA. 49+00.00
WATER SERVICE (TBR&RELOCBO)
GV (ATG)
GAS LINE (TBR&RELOCBO)
OH POWER (TBR&RELOCBO)
GAS LINE (UIP)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED FO CABLE (METROLINK) (TBR&RELOCBO)
LP (TBR&RELOCBO)
GAS LINE (UIP)
TREES & LANDSCAPING (TBR) (TYP)
BUS STOP SIGN (TBRRBO)
GUY (TBR&RELOCBO)
P&LP (UIP)
GV (ATG)
GAS LINE (UIP)
BURIED FO CABLE (METROLINK) (UIP)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
10' 10' 10'
SAN MH (ATG)
GV'S (ATG)
WATER SERVICE (TBR&RELOCBO)
OH POWER (TBR&RELOCBO)
GAS LINE (UIP)
BURIED CABLE (AT&T) (TBR&RELOCBO)
SAN SEWER (UIP)
PP (UIP)
OH POWER (UIP)
WATER LINE
GAS LINE (UIP)
BURIED CABLE (AT&T) (TBR&RELOCBO)
SAN SEWER (UIP)
WATER LINE
OH POWER (AMEREN) (TBR&RELOCBO)
OH POWER (TBR&RELOCBO)
PP (TBR& RELOCBO)
GAS STATION LIGHTED SIGN (TBR&RELOCBO)
SAN SEWER (UIP)
SAN MH (ATG)
PP (TBR& RELOCBO)
WATER LINES
WV'S
OH POWER (TBR&RELOCBO)
PP (TBR&RELOCBO)
ISLAND (TBR)
WATER SERVICE LINE
BURIED CABLE (AT&T) (TBR&RELOCBO)
RPM AUTO SERVICE & REPAIR SIGN (TBR&RELOCBO)
WALL (TBR) & REPLACE W/ TYPE S CURB
WALL (SMALL BLOCK) TIE TO EXIST. WALL
SEE PLAN SHEET 9 FOR SIDEROAD NOTE
S 7° 39' 33" W
WATER LINE (UIP)
WATER SERVICE LINE (UIP)
CONC. PARKING AREA
ASPHALT DRIVEWAY
OH POWER (AMEREN) (UIP)
WALL (DND)
PARKING AREA
WATER SERVICE LINE (TBR&RELOC)
ASPHALT (TBR)
SAN MH (ATG)
P&LP (UIP)
GAS STATION LIGHTED SIGN & LIGHT POLE (TBR&RELOCBO)
GAS PUMP (DND)
LP (UIP)
* NEW PED. LIGHT POLE (TYP)
SLOPE LIMITS
SAW CUT
6" CONCRETE CURB & GUTTER, TYPE B
EXIST. SIDEWALK (R)
5' CONCRETE SIDEWALK
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
CONCRETE CURB, TYPE S
GAS LINE (UIP)
OH POWER (UIP)
SAN SEWER (UIP)
WATER LINE (UIP)
16.75' 9.75'
25' 25'
SIGNS (TBRR)
EDGE OF PARKING LOT
REMOVE & REPLACE PV'MT. (TYP)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
CONCRETE CURB, TYPE S (TYP)
SLOPE LIMITS
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
37' - TYPE A (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN 10.83% CONCRETE ENT. - STA. 44+47.06 RT.
32' - TYPE B' (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN 8.86% ASPHALT ENT. - STA. 44+99.83 RT.
12' - TYPE B' (COMMERCIAL ENT.) APPROACH @ 10.45% STA. 45+41.67 RT.
45' - TYPE B' (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN 11.83% ASPHALT ENT. - STA. 45+89.00 RT.
45' - TYPE B'' (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN 2.05% ASPHALT ENT. - STA. 46+47.50 RT. (PARKING LOT PV'MT. WARPING REQ'D.)
26' - TYPE F (ASPHALT PV'MT.) APPROACH @ 5.74%; TIE-IN @ 3.00% STA. 47+94.30 RT. (ROUTE 100) = STA. 60+00.00 (LOUIS AVE)
WATER SERVICE LINE (UIP)
WATER LINE (UIP)
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
WALL (SMALL BLOCK) TIE TO EXIST. WALL
WATER SERVICE LINE (TBR&RELOC)
WATER SERVICE LINE (UIP)
WATER SERVICE LINE (TBR&RELOC)
WATER SERVICE LINE (UIP)
WATER SERVICE LINE (UIP)
WATER SERVICE LINE (UIP



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WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

EXISTING IMPROVEMENTS:

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 1-4
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 1-1 OF 52

REV. .

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DESIGNATED PARKING STALLS

1. PERMANENT PARKING LICENSE FOR GWH, LLC (ADA ACCESSIBLE)
2. PERMANENT PARKING LICENSE FOR GWH, LLC
3. PERMANENT PARKING LICENSE FOR GWH, LLC
4. PERMANENT PARKING LICENSE FOR GWH, LLC
5. PERMANENT PARKING LICENSE FOR GWH, LLC
6. PERMANENT PARKING LICENSE FOR GWH, LLC

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

INSTALLATION OF MID-BLOCK CROSSING:

SEE SIGNAL SHEETS FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING, RECTANGULAR RAPID FLASHING BEACON (RRFB), ADVANCED LIGHTING & SIGNING AT CROSSING.

* PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

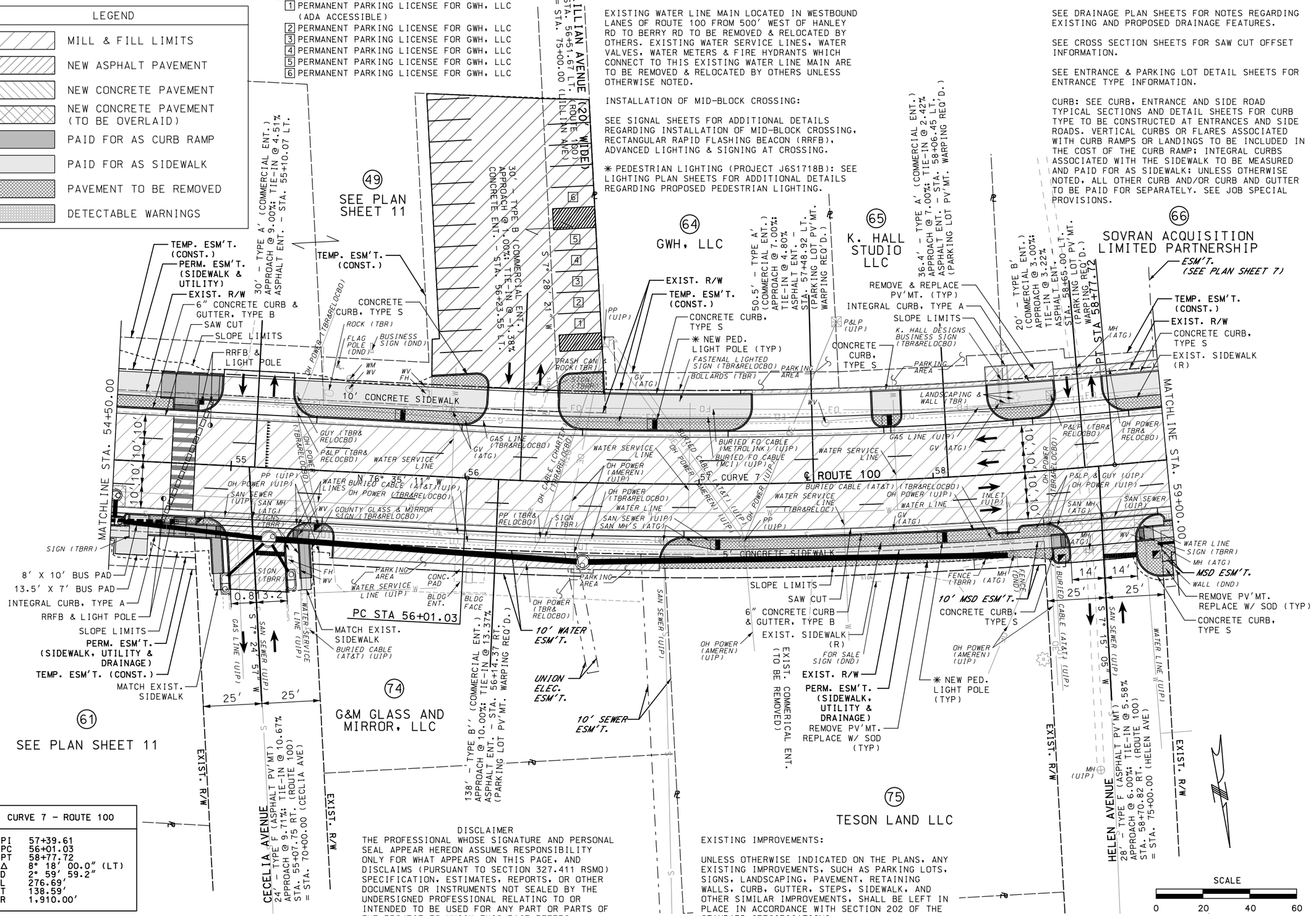
NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.



CURVE 7 - ROUTE 100	
PI	57+39.61
PC	56+01.03
PT	58+77.72
Δ	8° 18' 00.0" (LT)
D	2° 59' 59.2"
L	276.69'
T	138.59'
R	1,910.00'

DISCLAIMER

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EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

DATE PREPARED 3/13/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 1-5

COUNTY ST. LOUIS

JOB NO. J6S1718/J6S1718B

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 12 OF 52

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\015_PN_12_J6S1718B_120.dgn 5:09:10 PM 3/13/2020

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

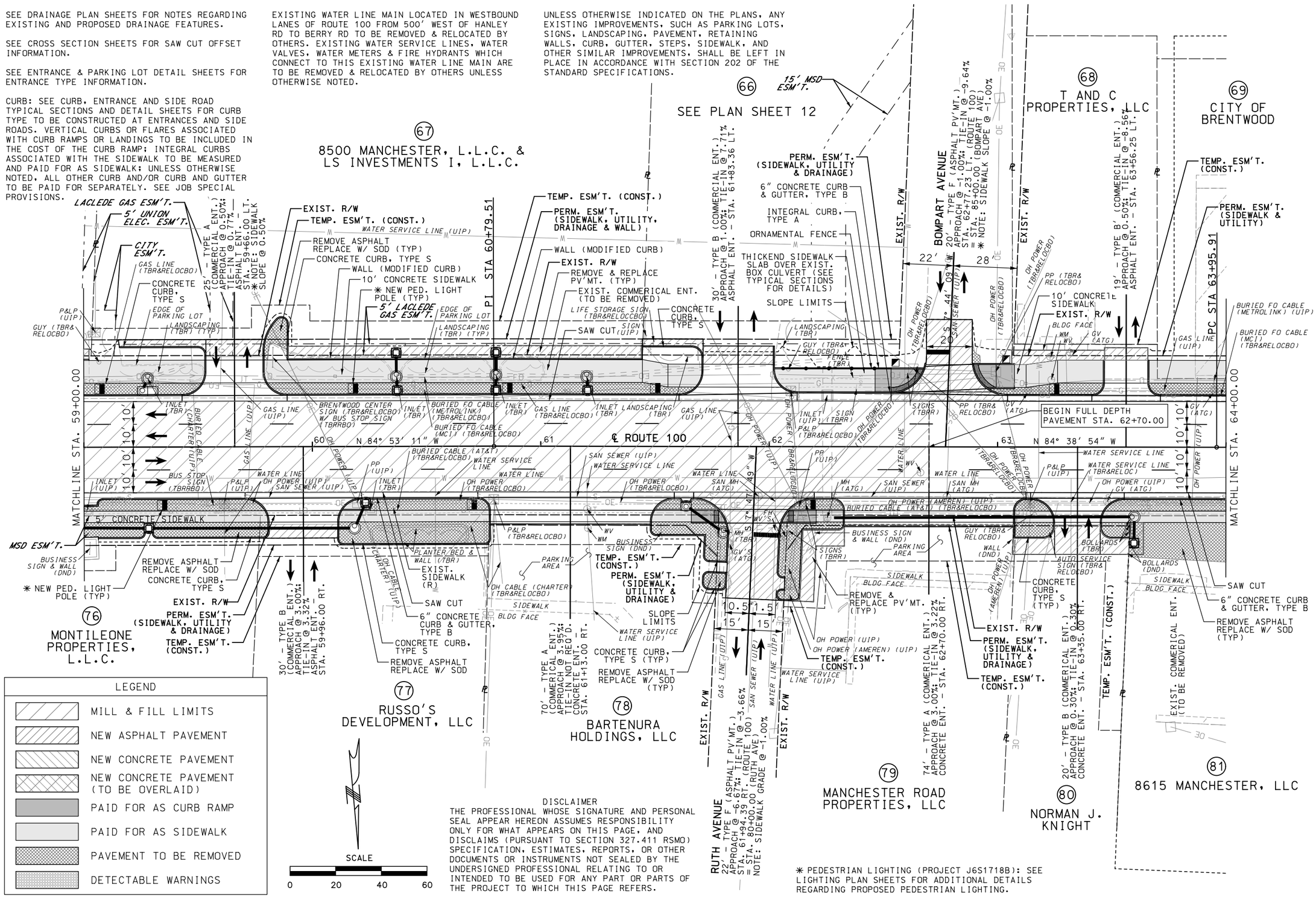
CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE

0 20 40 60

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* PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

DATE PREPARED 3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	1-6

COUNTY: ST. LOUIS

JOB NO.: J6S1718/J6S1718B

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN

ROUTE 100

SHEET 13 OF 52

REV.

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* PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

CURVE 8 – ROUTE 100	
PI	64+95.91
PC	63+95.91
PT	65+95.91
Δ	1° 00′ 00.0″ (LT)
D	0° 30′ 00.0″
L	200.00′
T	100.00′
R	11,458.87′

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500′ WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SEE SHEET 52 OF 52 FOR HORIZONTAL ALIGNMENT INFORMATION AND CURVE DATA FOR MARY AVE, DOROTHY AVE AND THE PROPOSED PEDESTRIAN TRAIL (ROGERS PARKWAY).

SEE PROFILE SHEETS FOR GRADE INFORMATION FOR PROPOSED PROFILES FOR ROUTE 100, MARY AVE & DOROTHY AVE.

UNLESS OTHERWISE INDICATED ON THE PLANS, ALL LANDSCAPING, TREES, SIGNS, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE REMOVED FROM PARCELS 70, 71, 72, 81, 82, 83 WITHIN THE BOUNDARY OF THE LAND OR EASEMENTS TO BE ACQUIRED.

(72) NORMAN B. WEST & MARY LOU WEST

(71) MARY AVENUE & COMPANY LLC

(70) IDOWU AJIBOLA

(69) SEE PLAN SHEET 13

(73) MORICE ENTERPRISES, LLC

(84) SUBURBAN PARTNERS, L.P.

(82) CITY OF BRENTWOOD

(83) CITY OF BRENTWOOD

(81) SEE PLAN SHEET 13

(SEE PLAN SHEET 51 OF 52) MATCHLINE OFFSET 190.00′ LT

MATCHLINE OFFSET 185.00′ RT (SEE PLAN SHEET 51 OF 52)

MATCHLINE STA. 64+00.00

MATCHLINE STA. 68+50.00

PT STA 65+95.91

POT STA 95+00.00

PT STA 94+50.41

PC STA 94+00.20

PT STA 93+18.14

CURVE 8

MARY AVENUE SOUTH

DOROTHY AVENUE

VAN MARK WAY

& ROGERS PARKWAY

PROPOSED PEDESTRIAN UNDERPASS ROGERS PARKWAY STA 6+32.24= ROUTE 100 STA 66+00.00

℄ ROUTE 100

N 85° 38′ 54″ W

S 14° 29′ 19″ W

S 17° 00′ 56″ W

SCALE 0 20 40 60

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS
- CONCRETE PAVERS
- PERMEABLE INTERLOCKING CONCRETE PAVEMENT
- AMENDED SOILS

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

DATE PREPARED 3/13/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 17

COUNTY ST. LOUIS

JOB NO. J6S1718/J6S1718B

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION | DATE | REV.

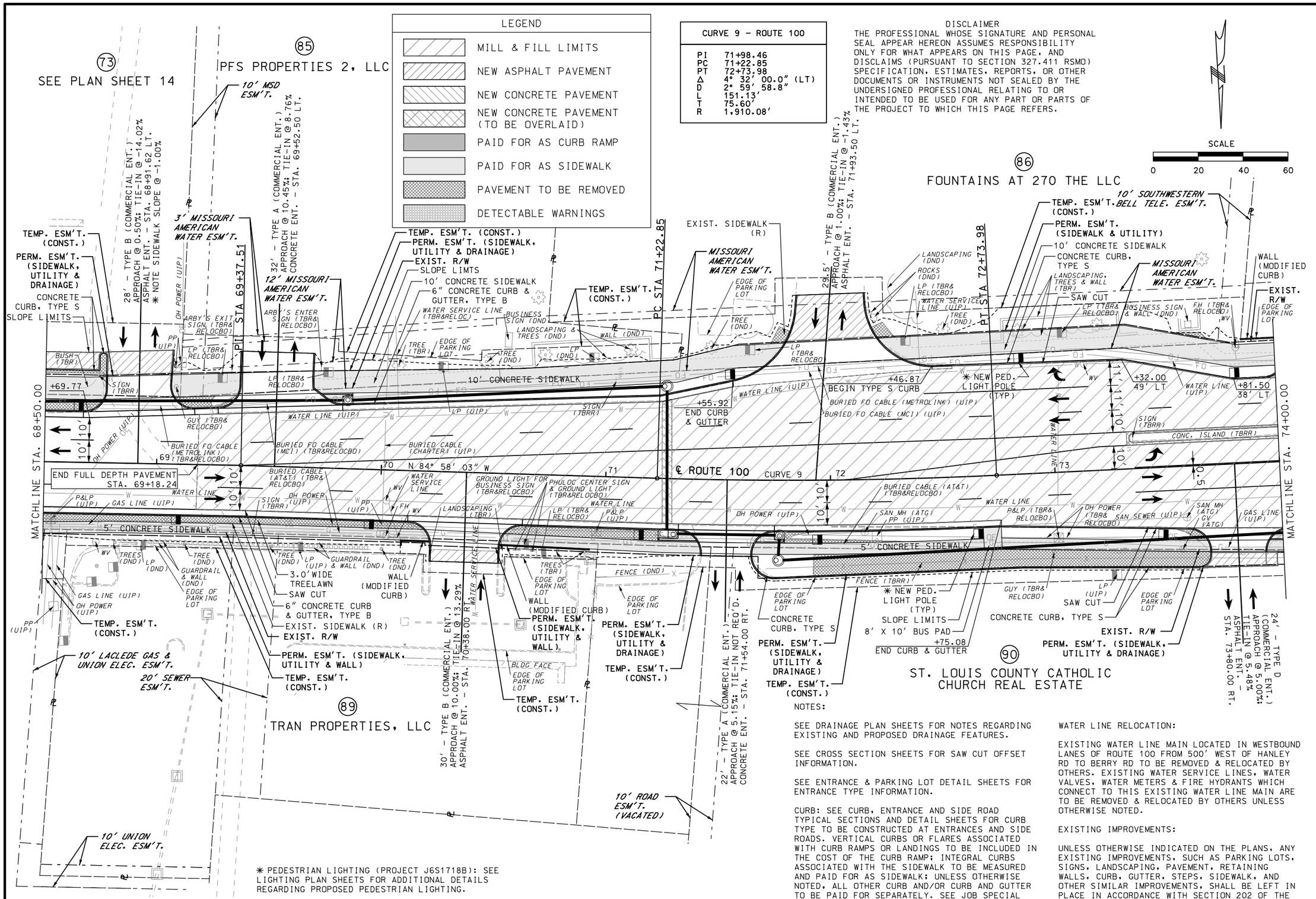
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

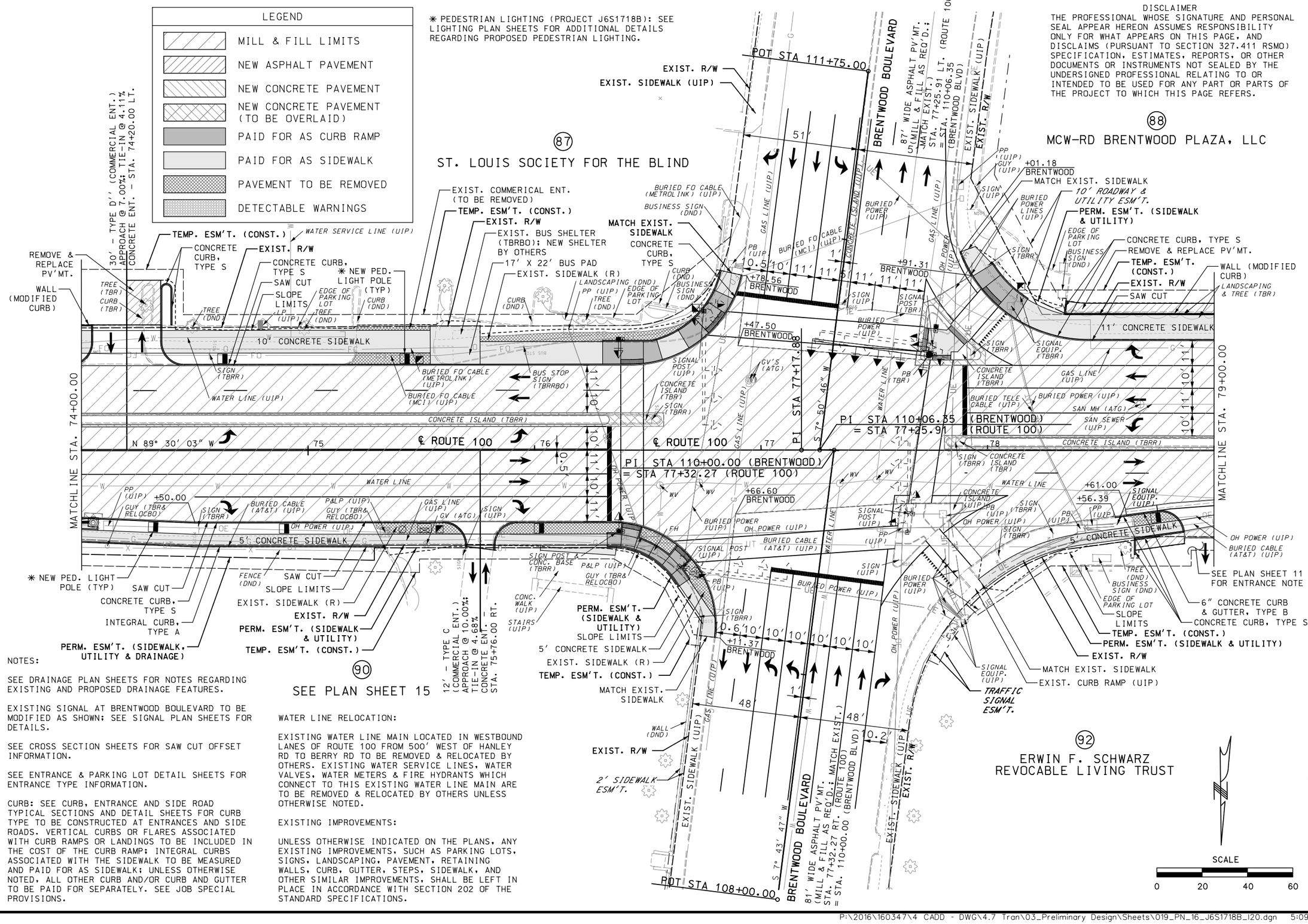
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 14 OF 52

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LEGEND
MILL & FILL LIMITS
NEW ASPHALT PAVEMENT
NEW CONCRETE PAVEMENT
NEW CONCRETE PAVEMENT (TO BE OVERLAID)
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS
CURVE 9 – ROUTE 100
PI 71+98.46
PC 71+22.85
PT 72+73.98
Δ 4° 32' 00.0" (LT)
D 2° 59' 58.8"
L 151.13'
T 75.60'
R 1,910.08'
DISCLAIMER
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SCALE
0 20 40 60
(73) SEE PLAN SHEET 14
(85) PFS PROPERTIES 2, LLC
(86) FOUNTAINS AT 270 THE LLC
(89) TRAN PROPERTIES, LLC
(90) ST. LOUIS COUNTY CATHOLIC CHURCH REAL ESTATE
10' MSD ESM'T.
3' MISSOURI AMERICAN WATER ESM'T.
12' MISSOURI AMERICAN WATER ESM'T.
MISSOURI AMERICAN WATER ESM'T.
10' SOUTHWESTERN BELL TELE. ESM'T.
10' LACLEDE GAS & UNION ELEC. ESM'T.
20' SEWER ESM'T.
10' UNION ELEC. ESM'T.
10' ROAD ESM'T. (VACATED)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
PERM. ESM'T. (SIDEWALK, UTILITY & WALL)
PERM. ESM'T. (SIDEWALK & UTILITY)
EXIST. R/W
SLOPE LIMTS
EXIST. SIDEWALK (R)
10' CONCRETE SIDEWALK
5' CONCRETE SIDEWALK
6" CONCRETE CURB & GUTTER, TYPE B
CONCRETE CURB, TYPE S
SLOPE LIMITS
3.0' WIDE TREELAWN
SAW CUT
EXIST. SIDEWALK (R)
WALL (MODIFIED CURB)
28' – TYPE B (COMMERCIAL ENT.) APPROACH @ 0.50%; TIE-IN @ -14.02% ASPHALT ENT. – STA. 68+91.62 LT. * NOTE SIDEWALK SLOPE @ -1.00%
32' – TYPE A (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN @ 8.76% CONCRETE ENT. – STA. 69+52.50 LT.
30' – TYPE B (COMMERCIAL ENT.) APPROACH @ 10.00%; TIE-IN @ 13.29% ASPHALT ENT. – STA. 70+38.00 RT.
22' – TYPE A (COMMERCIAL ENT.) APPROACH @ 5.15%; TIE-IN NOT REQ'D. CONCRETE ENT. – STA. 71+54.00 RT.
29.5' – TYPE B (COMMERCIAL ENT.) APPROACH @ 1.00%; TIE-IN @ -1.43% ASPHALT ENT. – STA. 71+93.50 LT.
24' – TYPE D (COMMERCIAL ENT.) APPROACH @ 5.00%; TIE-IN @ 5.48% ASPHALT ENT. – STA. 73+80.00 RT.
PC STA 71+22.85
PT STA 72+73.98
MATCHLINE STA. 68+50.00
MATCHLINE STA. 74+00.00
END FULL DEPTH PAVEMENT STA. 69+18.24
BEGIN TYPE S CURB +46.87
END CURB & GUTTER +55.92
END CURB & GUTTER +75.08
8' X 10' BUS PAD
* NEW PED. LIGHT POLE (TYP)
SLOPE LIMITS
+69.77
+81.50 38' LT
+32.00 49' LT
N 84° 58' 03" W
℄ ROUTE 100 CURVE 9
WATER LINE (UIP)
BURIED FO CABLE (METROLINK) (UIP)
BURIED FO CABLE (MCI) (UIP)
BURIED CABLE (CHARTER) (UIP)
BURIED CABLE (AT&T) (TBR&RELOCBO)
BURIED FO CABLE (METROLINK) (TBR&RELOCBO)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
OH POWER (UIP)
GAS LINE (UIP)
WATER SERVICE LINE
GROUND LIGHT FOR BUSINESS SIGN (TBR&RELOCBO)
PHULOG CENTER SIGN & GROUND LIGHT (TBR&RELOCBO)
LANDSCAPING (TBR)
LANDSCAPING (DND)
ROCKS (DND)
LANDSCAPING, TREES & WALL (TBR)
BUSINESS SIGN (DND)
LANDSCAPING & TREES (DND)
WALL (DND)
GUARDRAIL & WALL (DND)
GUARDRAIL (DND)
FENCE (DND)
FENCE (TBR)
TREE (DND)
TREE (TBR)
TREES (DND)
TREES (TBR)
LP (UIP)
LP (TBR&RELOCBO)
LP (DND)
P&LP (UIP)
PP (UIP)
SIGN (TBRR)
SIGN (UIP)
GUY (TBR&RELOCBO)
FH (TBR&RELOCBO)
WV
SAN MH (ATG)
GV (ATG)
SAN SEWER (UIP)
CONC. ISLAND (TBRR)
EDGE OF PARKING LOT
BLDG FACE
WALL (MODIFIED CURB)
CONCRETE CURB, TYPE S
SAW CUT
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
10' CONCRETE SIDEWALK
5' CONCRETE SIDEWALK
10' 10' 10'



NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT BRENTWOOD BOULEVARD TO BE MODIFIED AS SHOWN; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 19
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | BY

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 16 OF 52

REV.

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NOTES:

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SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

(88)

SEE PLAN SHEET 16

(COLLIER DRIVE) MATCHLINE STA. 116+95.00

5' CONCRETE SIDEWALK
EXIST. R/W
END IMPROVEMENTS STA. 117+23.50 (COLLIER DRIVE)
EXIST. R/W
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
TEMP. ESM'T. (CONST.)
COLLIER DRIVE
MATCHLINE STA. 116+95.00 (COLLIER DRIVE)
BLDG FACE

SCALE 0 20 40 60

COLLIER ENTRANCE NOTE:

20' - TYPE A (COMMERCIAL ENT.) APPROACH @ 1.00%: TIE-IN @ 3.80% CONCRETE ENT. - STA. 115+95.99 RT.

(98)

ASTI PROPERTIES, L.L.C.

CURVE 10 - ROUTE 100	
PI	83+79.17
PC	83+29.17
PCC	84+29.17
Δ	1° 28' 30.0" (LT)
D	1° 28' 30.0"
L	100.00'
T	50.00'
R	3,884.46'

PC STA 83+29.17

WALL (MODIFIED CURB)
PERM. ESM'T. (SIDEWALK, UTILITY & WALL)
TEMP. ESM'T. (CONST.)
10' CONCRETE SIDEWALK
MSD ESM'T.
SAW CUT
SLOPE LIMITS
EDGE OF PARKING LOT
6" CONCRETE CURB & GUTTER, TYPE B
EXIST. R/W
SEE ENTRANCE NOTE
CONCRETE CURB, TYPE S
TEMP. ESM'T. (CONST.)
EXIST. R/W
CONCRETE CURB, TYPE S
TEMP. ESM'T. (CONST.)
EXIST. R/W
EXIST. SIDEWALK (R)
TEMP. ESM'T. (CONST.)
WALL (MODIFIED CURB)
6" CONCRETE CURB & GUTTER, TYPE B
✳ NEW PED. LIGHT POLE (TYP)
EXIST. R/W
CONCRETE CURB, TYPE S
EDGE OF PARKING LOT
BUSINESS SIGN (TBR& RELOCBO)
TREE (DND)
TREES (DND)
LANDSCAPING (TBR)
REMOVE & REPLACE PV'MT.
LANDSCAPING & TREE (TBR)
WALL (MODIFIED CURB)
TEMP. ESM'T. (CONST.)
EXIST. R/W
CONCRETE CURB, TYPE S
SAW CUT
GUY (TBR& RELOCBO)
LANDSCAPING (DND)
LANDSCAPING & TREES (TBR)
EDGE OF PARKING LOT
11' CONCRETE SIDEWALK
LANDSCAPING & TREE (TBR)
TREE (DND)
30' - TYPE D (COMMERCIAL ENT.) APPROACH @ 1.00%: TIE-IN @ -5.50% ASPHALT ENT. - STA. 80+33.50 LT. ✳ NOTE: SIDEWALK SLOPE @ -1.00%

MATCHLINE STA. 79+00.00

+08.00 END CURB
+64.00 BEGIN CURB & GUTTER
+49.70 37.5' LT
+22.40
P&LP (UIP)
SIGN (TBRR)
GAS LINE (UIP)
FOR LEASE SIGN (TBR&RELOCBO)
SAN SEWER (UIP)
SIGN (TBRR)
CONCRETE ISLAND (TBRR)
80
81
82
83
CURVE 10
℄ ROUTE 100
N 89° 22' 03" W
WALL (SMALL BLOCK) W/ HANDRAIL
BUS STOP SIGN (TBRRBO)
5' CONCRETE SIDEWALK
BURIED CABLE (AT&T) (TBR& RELOCBO)
GUY (TBR& RELOCBO)
GV (ATG)
SAN MH (ATG)
P&LP (UIP)
OH POWER (UIP)
WATER LINE
WV
WM
ISLAND (TBR)
PP'S (UIP)
SIGNS (TBRR)
SAN MH (ATG)
SIGN (TBRR)
BLDG FACE
WATER SERVICE LINE
SAW CUT
EXIST. R/W
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
6" CONCRETE CURB & GUTTER, TYPE B
SAN SEWER LINES (UIP)
OH POWER (UIP)
OH POWER (AMEREN) (UIP)
8' X 10' BUS PAD
CONCRETE CURB, TYPE S
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
✳ NEW PED. LIGHT POLE (TYP)
OH POWER (UIP)
CONCRETE CURB, TYPE S
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
INTEGRAL CURB, TYPE A
WATER SERVICE LINE
WM (UIP)
GAS LINE (UIP)
SAN SEWER (UIP)
MH'S (ATG)
14.5'
15
22.2' S
PP (UIP)
GV (UIP)
OH POWER (UIP)
LP (UIP)
BURIED CABLE (AT&T) (UIP)
25'
25'
ANNELEE AVENUE
30' - TYPE F (ASPHALT PV'MT.) APPROACH @ 3.55%: TIE-IN @ 2.42% STA. 82+80.91 RT. (ROUTE 100) = STA. 120+00.00 (ANNALEE AVE)
EXIST. R/W
EXIST. R/W
WATER SERVICE LINE (TBR& RELOC)
REMOVE PAVEMENT REPLACE W/ SOD (TYP)
CONCRETE CURB, TYPE S
TEMP. ESM'T. (CONST.)
SAN SEWER (UIP)
CONCRETE CURB, TYPE S
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
BUSINESS SIGN (DND)
MATCHLINE STA. 84+00.00

30' - TYPE B' (COMMERCIAL ENT.) APPROACH @ 4.00%: TIE-IN @ 3.81% CONCRETE ENT. - STA. 79+02.00 RT.

20' - TYPE B' (COMMERCIAL ENT.) APPROACH @ 12.00%: TIE-IN @ 14.47% ASPHALT ENT. - STA. 79+45.00 RT. (PARKING LOT PV'MT. WARPING REQ'D.)

(92)

SEE PLAN SHEET 16

(93)

8821 MANCHESTER, LLC

(94)

8837 MANCHESTER, LLC

20' - TYPE B'' (COMMERCIAL ENT.) APPROACH @ 10.00%: TIE-IN @ 9.73% ASPHALT ENT. - STA. 80+78.00 RT. (PARKING LOT PV'MT. WARPING REQ'D.)

30' - TYPE A (COMMERCIAL ENT.) APPROACH @ 6.17%: TIE-IN NOT REQ'D. ASPHALT ENT. - STA. 81+58.00 RT. (PARKING LOT PV'MT. WARPING REQ'D.)

(95)

8837 MANCHESTER, LLC

38' - TYPE A (COMMERCIAL ENT.) APPROACH @ 5.67%: TIE-IN NOT REQ'D. CONCRETE ENT. - STA. 82+31.00 RT.

(97)

615 DEVELOPMENT, L.L.C.

45' - TYPE A (COMMERCIAL ENT.) APPROACH @ 8.36%: TIE-IN NOT REQ'D. CONCRETE ENT. - STA. 83+52.00 RT.

(105)

TERRENCE R. O'BRIEN AND DANIEL E. BRASSIL AND PATRICK J. BRASSIL

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

✳ PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

DISCLAIMER

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	20
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN

ROUTE 100

SHEET 17 OF 52

REV.

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CURVE 11 – ROUTE 100	
PI	118+59.65
PCC	118+09.65
PT	119+09.65
Δ	1° 28′ 30.0″ (LT)
D	1° 28′ 30.0″
L	100.00′
T	50.00′
R	3,884.46′

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

* PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

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(98) SEE PLAN SHEET 17

(99) H. M. BOEGEMAN REALTY CO., AND CREST DEVELOPMENT CO., AND WAYCLIFFE DEVELOPMENT CORP.

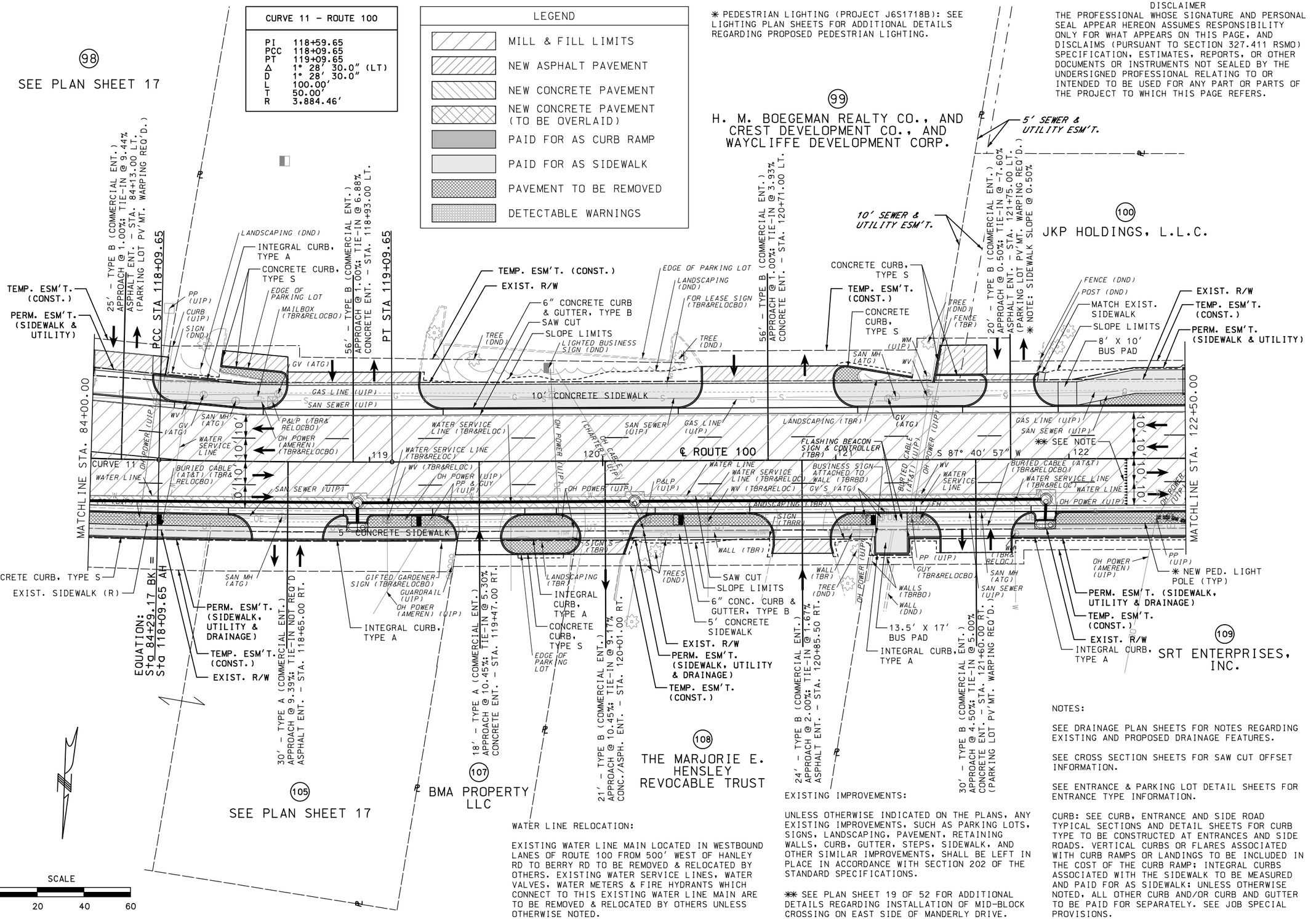
(100) JKP HOLDINGS, L.L.C.

(109) SRT ENTERPRISES, INC.

(108) THE MARJORIE E. HENSLEY REVOCABLE TRUST

(107) BMA PROPERTY LLC

(105) SEE PLAN SHEET 17



WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500′ WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

EXISTING IMPROVEMENTS:

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** SEE PLAN SHEET 19 OF 52 FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING ON EAST SIDE OF MANDERLY DRIVE.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	21
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6360
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 18 OF 52

REV.

LEGEND
MILL & FILL LIMITS
NEW ASPHALT PAVEMENT
NEW CONCRETE PAVEMENT
NEW CONCRETE PAVEMENT (TO BE OVERLAID)
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

DISCLAIMER

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

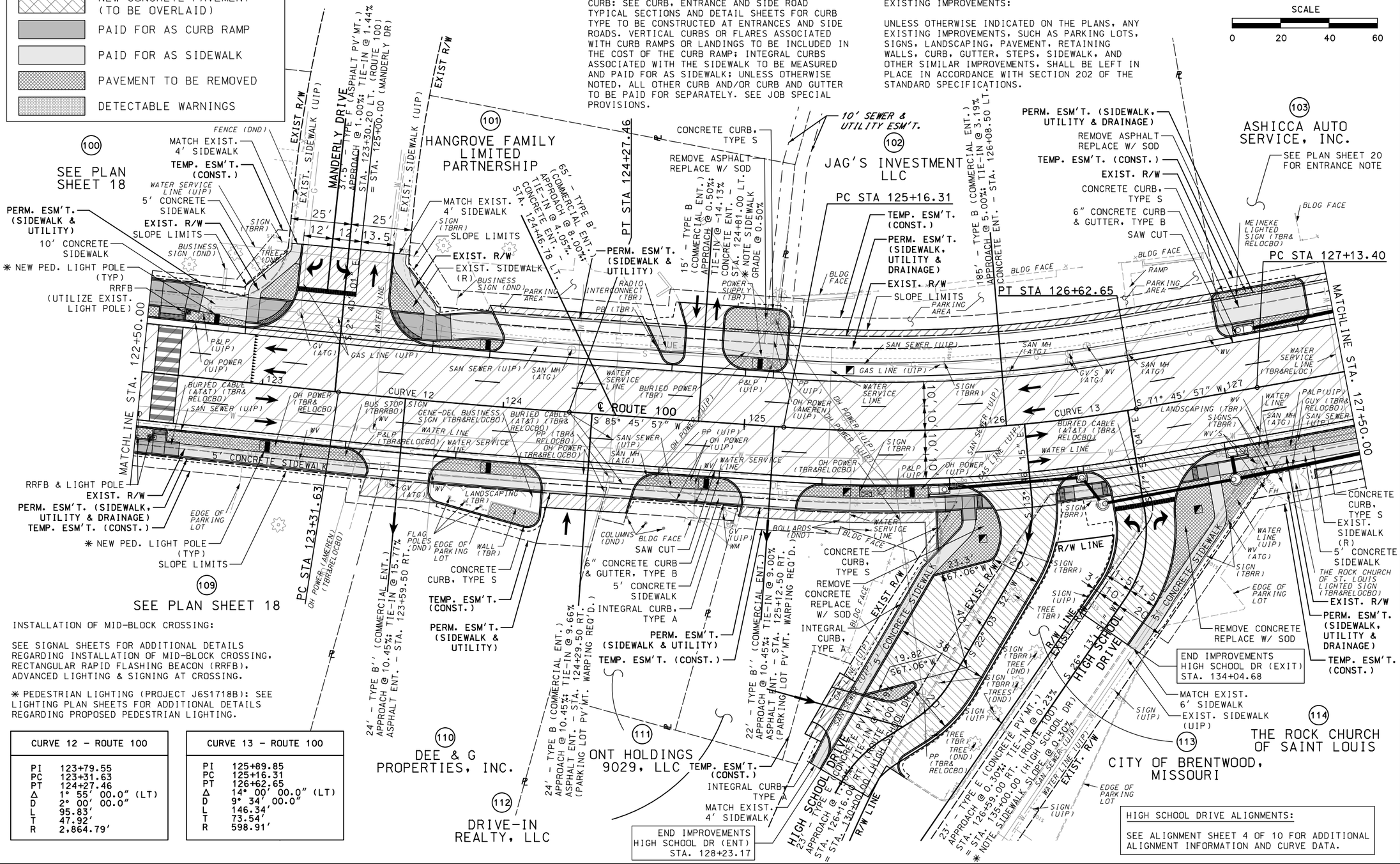
WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

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SCALE
0 20 40 60



INSTALLATION OF MID-BLOCK CROSSING:

SEE SIGNAL SHEETS FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING, RECTANGULAR RAPID FLASHING BEACON (RRFB), ADVANCED LIGHTING & SIGNING AT CROSSING.

✳ PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

CURVE 12 - ROUTE 100	
PI	123+79.55
PC	123+31.63
PT	124+27.46
Δ	1° 55' 00.0" (LT)
D	2° 00' 00.0"
L	95.83'
T	47.92'
R	2,864.79'

CURVE 13 - ROUTE 100	
PI	125+89.85
PC	125+16.31
PT	126+62.65
Δ	14° 00' 00.0" (LT)
D	9° 34' 00.0"
L	146.34'
T	73.54'
R	598.91'

DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	22
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 19 OF 52

REV.

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✳ PEDESTRIAN LIGHTING (PROJECT J6S1718B): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

CURVE 14 – ROUTE 100	
PI	127+98.84
PC	127+13.40
PT	128+84.23
Δ	3° 25′ 00.0″ (LT)
D	2° 00′ 00.0″
L	170.83′
T	85.44′
R	2,864.79′

DISCLAIMER

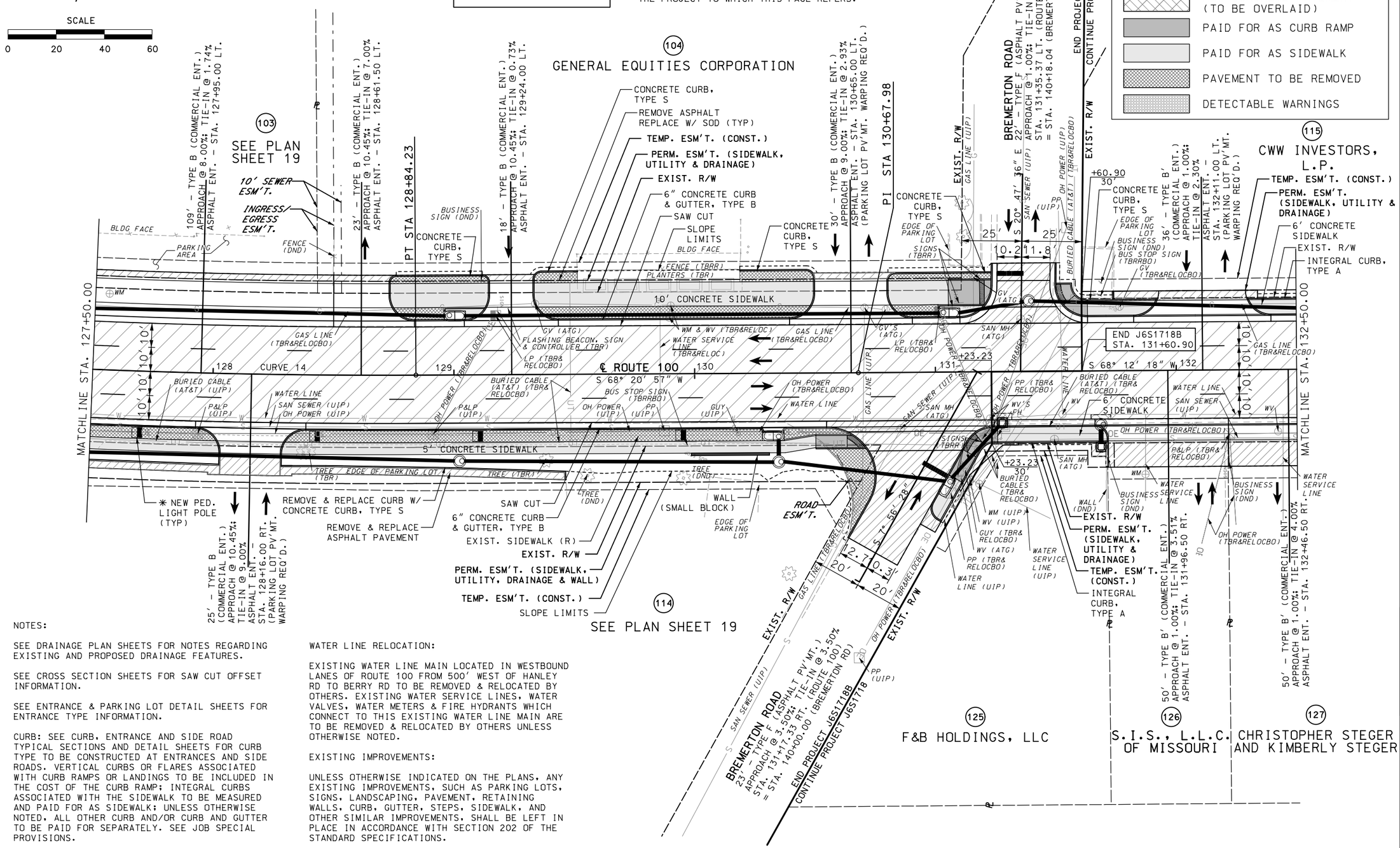
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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE

0 20 40 60



NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500′ WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 23
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 20 OF 52

REV.

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DISCLAIMER

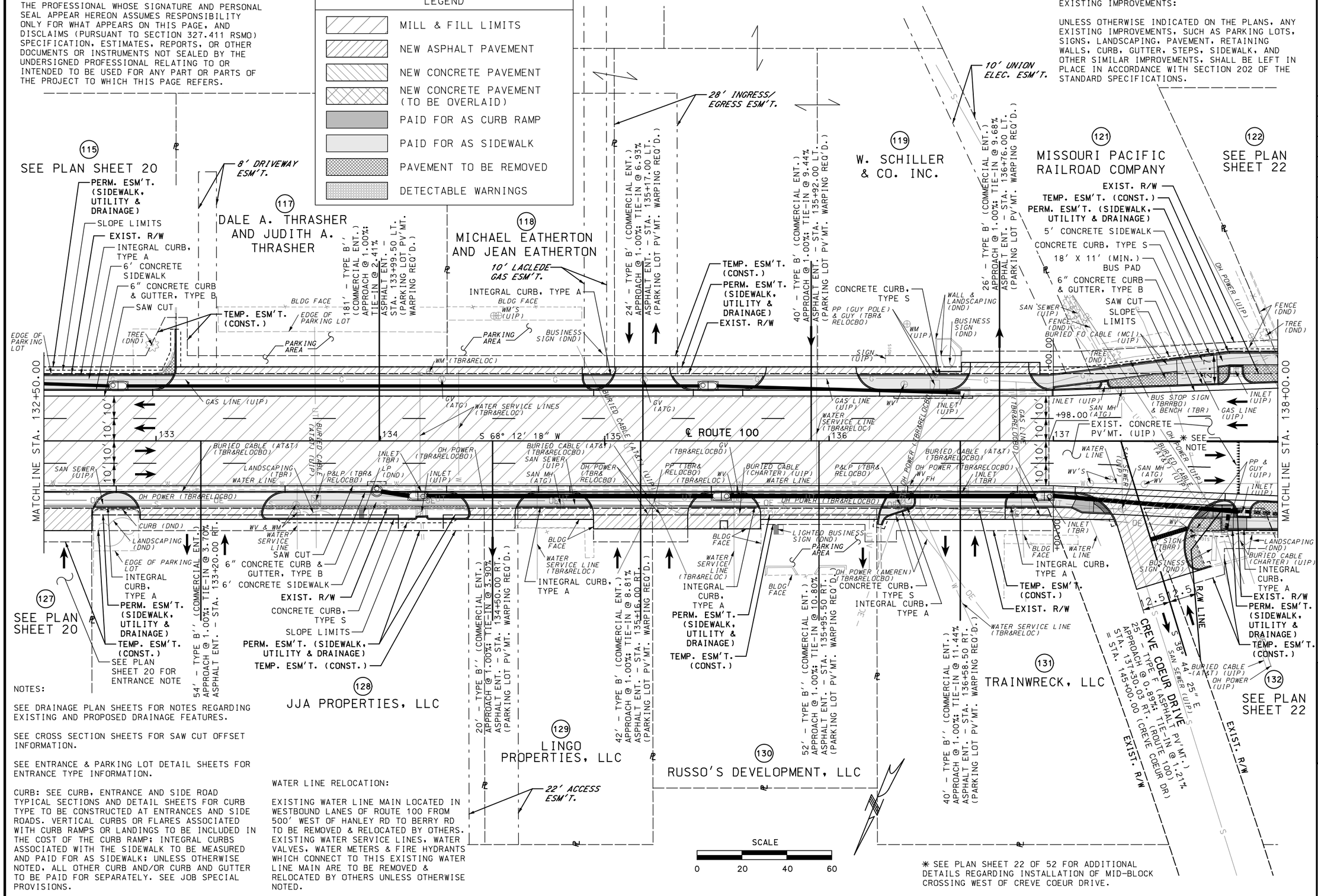
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

EXISTING IMPROVEMENTS:

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

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* SEE PLAN SHEET 22 OF 52 FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING WEST OF CREVE COEUR DRIVE.

DATE PREPARED 3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	24

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN

ROUTE 100

SHEET 21 OF 52

REV.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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INSTALLATION OF MID-BLOCK CROSSING:

SEE SIGNAL SHEETS FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING, RECTANGULAR RAPID FLASHING BEACON (RRFB), ADVANCED LIGHTING & SIGNING AT CROSSING.

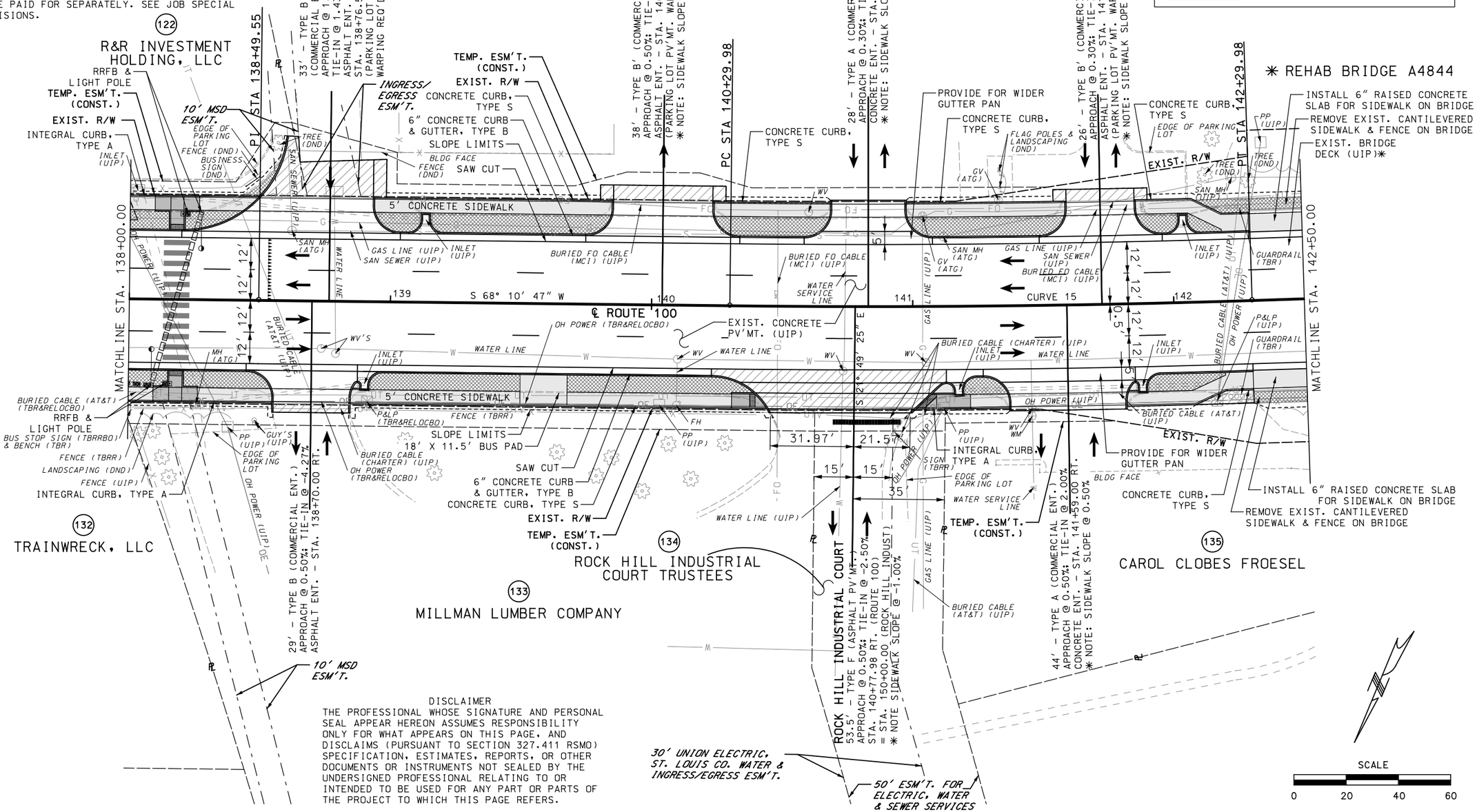
WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

CURVE 15 – ROUTE 100	
PI	141+29.98
PC	140+29.98
PT	142+29.98
Δ	2° 30' 00.0" (LT)
D	1° 14' 59.9"
L	200.00'
T	100.02'
R	4,583.75'

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS



DISCLAIMER

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 25
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 22 OF 52

CURVE 16 – ROUTE 100	
PI	144+54.14
PC	143+54.10
PT	145+54.11
Δ	3° 21′ 00.0″ (LT)
D	1° 40′ 29.6″
L	200.01′
T	100.03′
R	3,420.85′

10′ SEWER ESM'T.

(123) SEE PLAN SHEET 22

✳ REHAB BRIDGE |A4844

REMOVE EXIST. CANTILEVERED SIDEWALK ON BRIDGE

INSTALL 6″ RAISED CONCRETE SLAB FOR SIDEWALK ON BRIDGE

EXIST. R/W

DRAINAGE ESM'T. (MODOT)

PC STA 143+54.10

CONCRETE CURB, TYPE S

EXIST. R/W

36′ – TYPE A′ (COMMERCIAL ENT.) APPROACH @ 1.00%: TIE-IN @ -9.77% CONCRETE ENT. – STA. 144+16.00 LT.

(124) GBC ENTERPRISES, L.L.C.

SLOPE LIMITS

EXIST. R/W

6′ CONCRETE CONCRETE SIDEWALK

6″ CONCRETE CURB & GUTTER, TYPE B

SAW CUT

SIGN (TBR)

BLDG FACE

WALLS (DND)

BUSINESS SIGN & LANDSCAPING (DND)

PP (UIP)

OH POWER (UIP)

GV (UIP)

PT STA 145+54.11

(139) THEISS PLATING CORPORATION

LANDSCAPING & WALL (DND)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

EXIST. R/W

TEMP. ESM'T. (CONST.)

PORTION OF WALL (TBR)

BUSINESS SIGN (DND)

RARITAN DRIVE 27′ – TYPE F (ASPHALT PV'MT.) APPROACH @ 0.11%: TIE-IN @ 4.31% STA. 146+36.27 LT. (ROUTE 100) = STA. 160+00.00 (RARITAN DR)

GAS LINE (TBR&RELOCBO)

S 35° 37′ 30″ E

25′

14.3′ 12.6′

EXIST. R/W

(140) THE MANCHESTER PROFESSIONAL BUILDING, L.L.C.

43′ – TYPE B′ (COMMERCIAL ENT.) APPROACH @ 1.00%: TIE-IN @ 19.12% ASPHALT ENT. – STA. 146+90.00 LT. (PARKING LOT PV'MT. WARPING REQ'D.)

INTEGRAL CURB, TYPE A

BLDG FACE

EDGE OF PARKING LOT

STAIRS & SIDEWALK (DND)

PARKING AREA

TEMP. ESM'T. (CONST.)

EXIST. R/W

SAW CUT

PP (UIP)

WALL (MODIFIED CURB)

SEE PLAN SHEET 24 FOR ENTRANCE NOTE

(141) SEE PLAN SHEET 24

MATCHLINE STA. 142+50.00

7′ CONCRETE SIDEWALK

BURIED FO CABLE (MCI) (UIP)

SAN SEWER (UIP)

SAN MH (UIP)

WM

WV

GAS LINE (UIP)

SAN MH (ATG)

+99.49

WATER SERVICE LINE

INLET (TBR)

INLET (UIP)

INLETS (TBR)

WATER SERVICE LINE

SAN SEWER (UIP)

EXIST. CONCRETE PV'MT. (UIP)

CURVE 16

℄ ROUTE 100

+84.11

+51.60

BURIED TELE CABLE (UIP)

BURIED CABLE (AT&T) (UIP)

BUS STOP

WV'S SIGN (TBRBO)

GV (ATG)

WV'S & WM

BURIED FO CABLE (MCI) (TBR&RELOCBO)

SAN MH (ATG)

PP (GUY POLE) & GUY (TBR&RELOCBO)

SAN MH (ATG)

GAS LINE (UIP)

OH POWER (TBR&RELOCBO)

WATER LINE

12′ 12′ 12′ 12′ 12′ 12′

10′ 10′ 10′ 10′

143 144 145 146 147

EXIST. BRIDGE DECK (UIP)✳

0.5′

S 65° 40′ 47″ W

REMOVE & REPLACE CONCRETE APPROACH PAVEMENT

WATER LINE

S 24° 58′ 18″ E

S 62° 19′ 47″ W

BURIED FO CABLE (MCI) (TBR&RELOCBO)

6′ CONC. SIDEWALK

GAS LINE (UIP)

SAN SEWER (UIP)

SAN SEWER (UIP)

BURIED CABLE (AT&T) (TBR&RELOCBO)

WATER LINE

LP (TBR& RELOC)

FH P&LP (UIP)

MATCHLINE STA. 147+50.00

7′ CONCRETE SIDEWALK

OH POWER (UIP)

EXIST. R/W

CONCRETE CURB, TYPE S

INSTALL 6″ RAISED CONCRETE SLAB FOR SIDEWALK ON BRIDGE

REMOVE EXIST. CANTILEVERED SIDEWALK ON BRIDGE

MSD ESM'T.

STANFORD PLACE SIGN NON-LIGHTED (TBR&RELOCBO) SIGN (TBRR)

R/W LINE

15′ 15′

SAN SEWER (UIP)

P&LP (UIP)

GUY (TBR& RELOCBO)

PP (UIP)

WALL (DND)

EXIST. R/W

TEMP. ESM'T. (CONST.)

R/W LINE

LACLEDE GAS ESM'T.

MSD ESM'T.

5″ CONCRETE SIDEWALK

INLET (UIP)

LANDSCAPING (TBR)

EDGE OF PARKING LOT

INTEGRAL CURB, TYPE A

SAW CUT

6″ CONCRETE CURB & GUTTER, TYPE B

PP & GUY (UIP)

BUSINESS SIGN & LANDSCAPING (DND)

32.5′ – TYPE B (COMMERCIAL ENT.) APPROACH @ 1.00%: TIE-IN @ 9.45% ASPHALT ENT. – STA. 145+87.00 RT.

WATER LINE

INLET (UIP)

LANDSCAPING (TBR)

INTEGRAL CURB, TYPE A

BUSINESS SIGN & LANDSCAPING (DND)

MATCH EXIST. SIDEWALK

EXIST. R/W

EDGE OF PARKING LOT

SLOPE LIMITS

5′ CONCRETE SIDEWALK

SAW CUT

6″ CONCRETE CURB & GUTTER, TYPE B

EXIST. R/W

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T. (CONST.)

REMOVE & REPLACE PORTION OF CURB & PARKING LOT

WATER SERVICE LINE (TBR&RELOC)

(135) SEE PLAN SHEET 22

(137) STANFORD COURT APARTMENTS, L.L.C.

(147) STANFORD COURT APTS LLC MILLS PROPERTIES LLC

RARITAN DRIVE 30′ – TYPE E (CONCRETE PV'MT.) APPROACH @ 5.00%: TIE-IN @ 6.96% STA. 143+93.25 RT. (ROUTE 100) = STA. 155+00.00 (RARITAN DR)

EXIST. R/W

EXIST. R/W

SCALE

0 20 40 60

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500′ WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- REMOVE & REPLACE CONCRETE APPROACH PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED 3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	26

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.

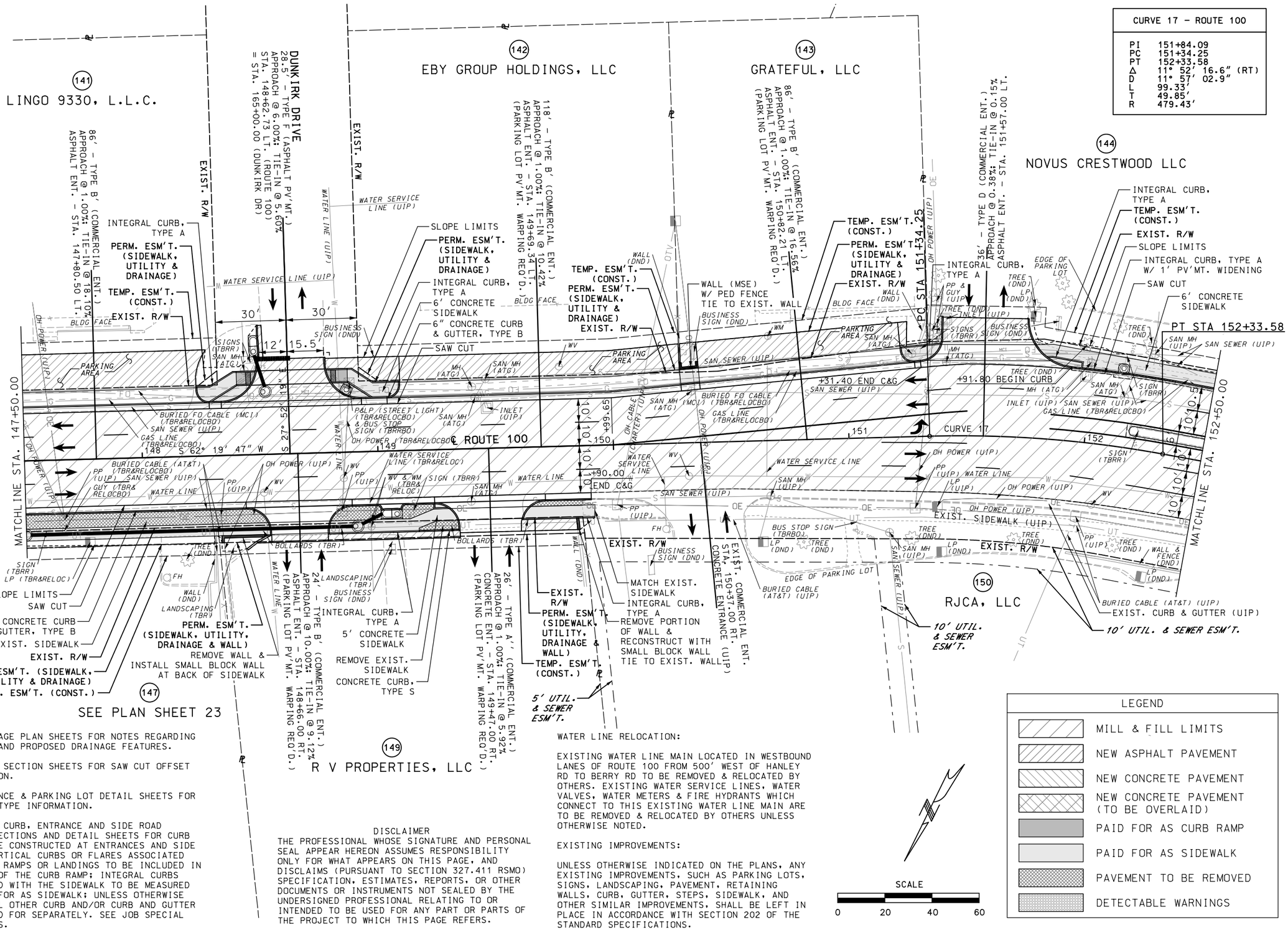
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JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001538

PL-AN
ROUTE 100
SHEET 23 OF 52

REV. .



NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500′ WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 27
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001539

PLAN
ROUTE 100
SHEET 24 OF 52

REV.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

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SCALE
0 20 40 60

(144) SEE PLAN SHEET 24

(146) MARKET AT McKNIGHT I, LLC

(150) SEE PLAN SHEET 24

(151) MISSOURI CVS PHARMACY LLC

(152) SEE PLAN SHEET 26

PI STA 170+05.52 (ROCK HILL RD) = STA 154+10.61 (ROUTE 100)

PI STA 170+00.00 (MCKNIGHT RD) = STA 154+05.08 (ROUTE 100)

✳ STATIONING FOR MCKNIGHT/NORTH ROCK HILL ROADS IS BASED ON CHAIN STORED AS MCKNIGHT.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

WATER LINE RELOCATION:

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT MCKNIGHT ROAD TO BE MODIFIED AS SHOWN; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 28
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

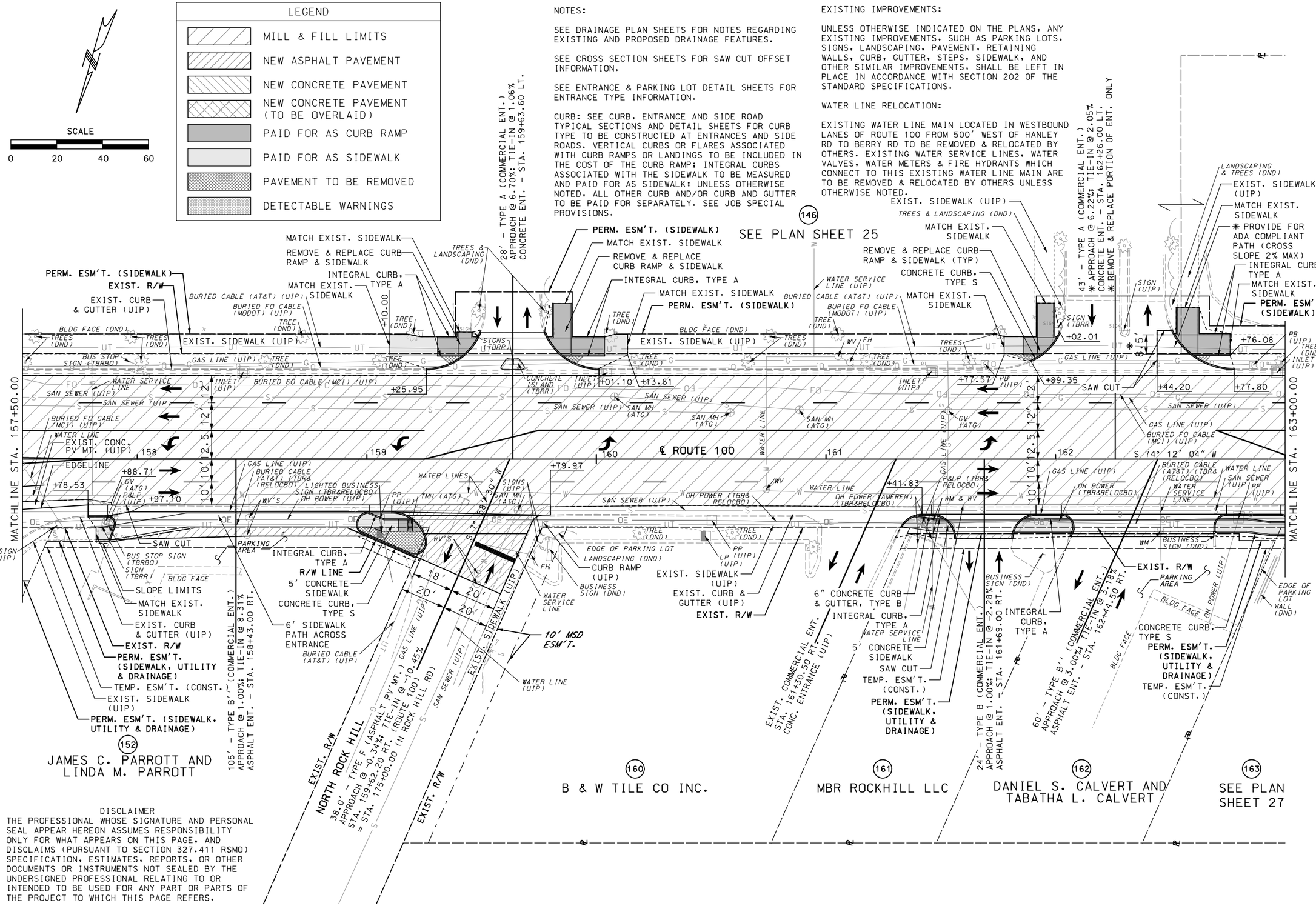
DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 25 OF 52

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 29
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 26 OF 52

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\029_PN_26_J6S1718_I20.dgn 5:09:47 PM 3/13/2020

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

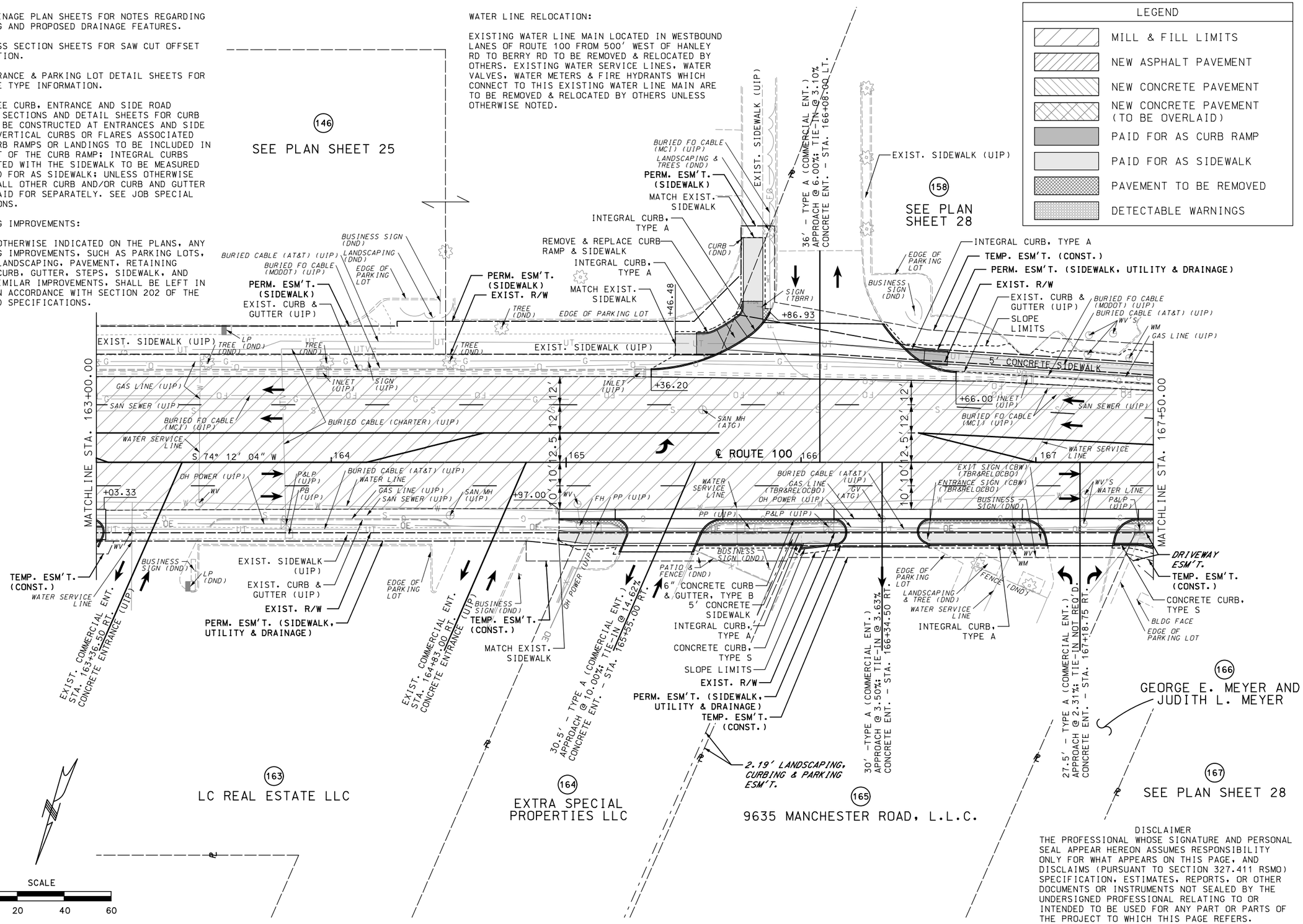
CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.



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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 30
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 27 OF 52

REV.

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

INSTALLATION OF MID-BLOCK CROSSING:

SEE SIGNAL SHEETS FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING, RECTANGULAR RAPID FLASHING BEACON (RRFB), ADVANCED LIGHTING & SIGNING AT CROSSING.

✳ DO NOT INSTALL ADVANCED LIGHT POLE; UTILIZE EXISTING LIGHTING.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

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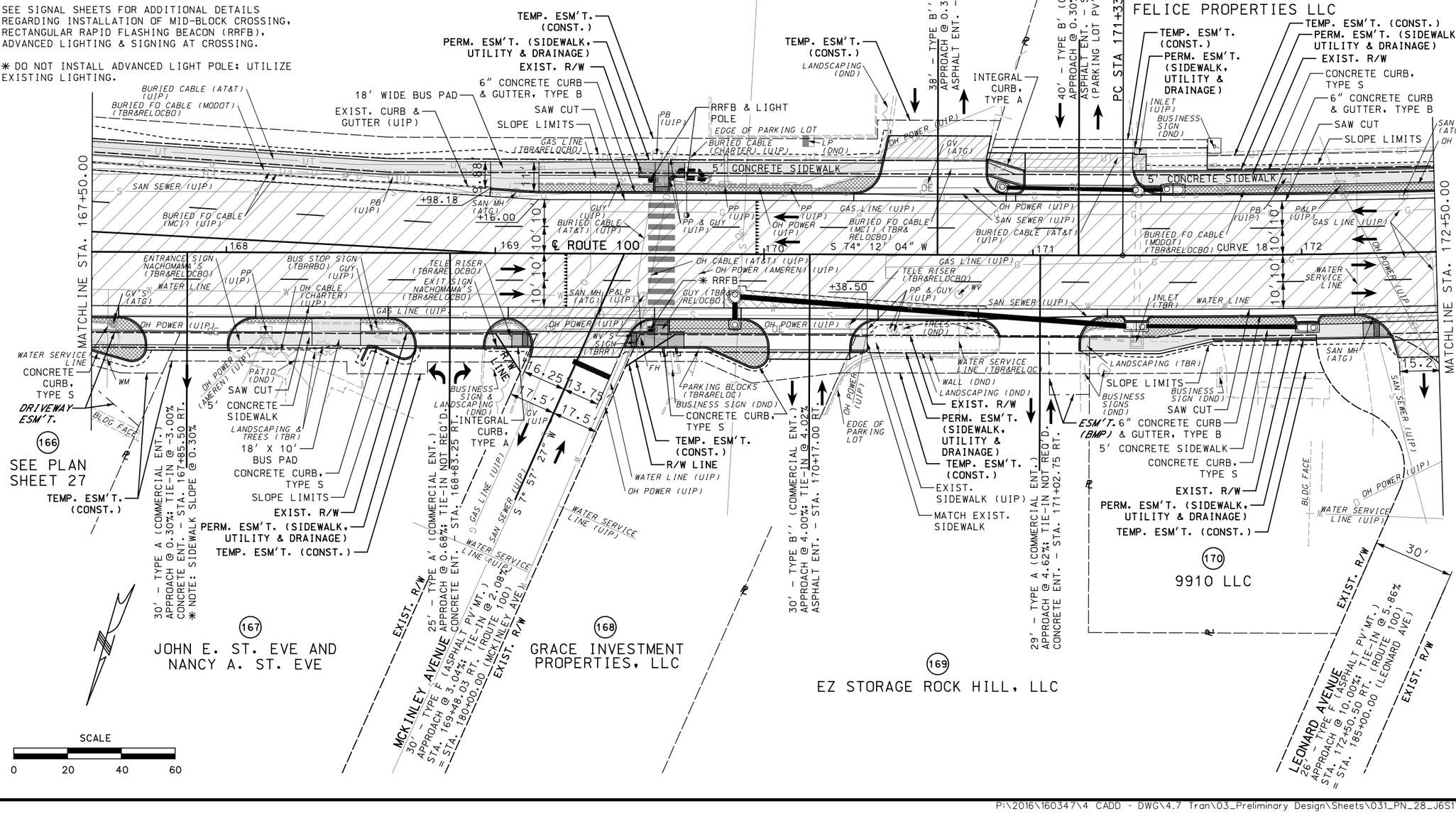
CURVE 18 – ROUTE 100	
PI	172+32.48
PC	171+33.41
PT	173+31.51
Δ	2° 58' 17.6" (LT)
D	1° 30' 00.0"
L	198.10'
T	99.07'
R	3,819.72'

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS



DATE PREPARED
3/13/2020
ROUTE: 100 — STATE: MO
DISTRICT: SL — SHEET NO.: 31
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 28 OF 52

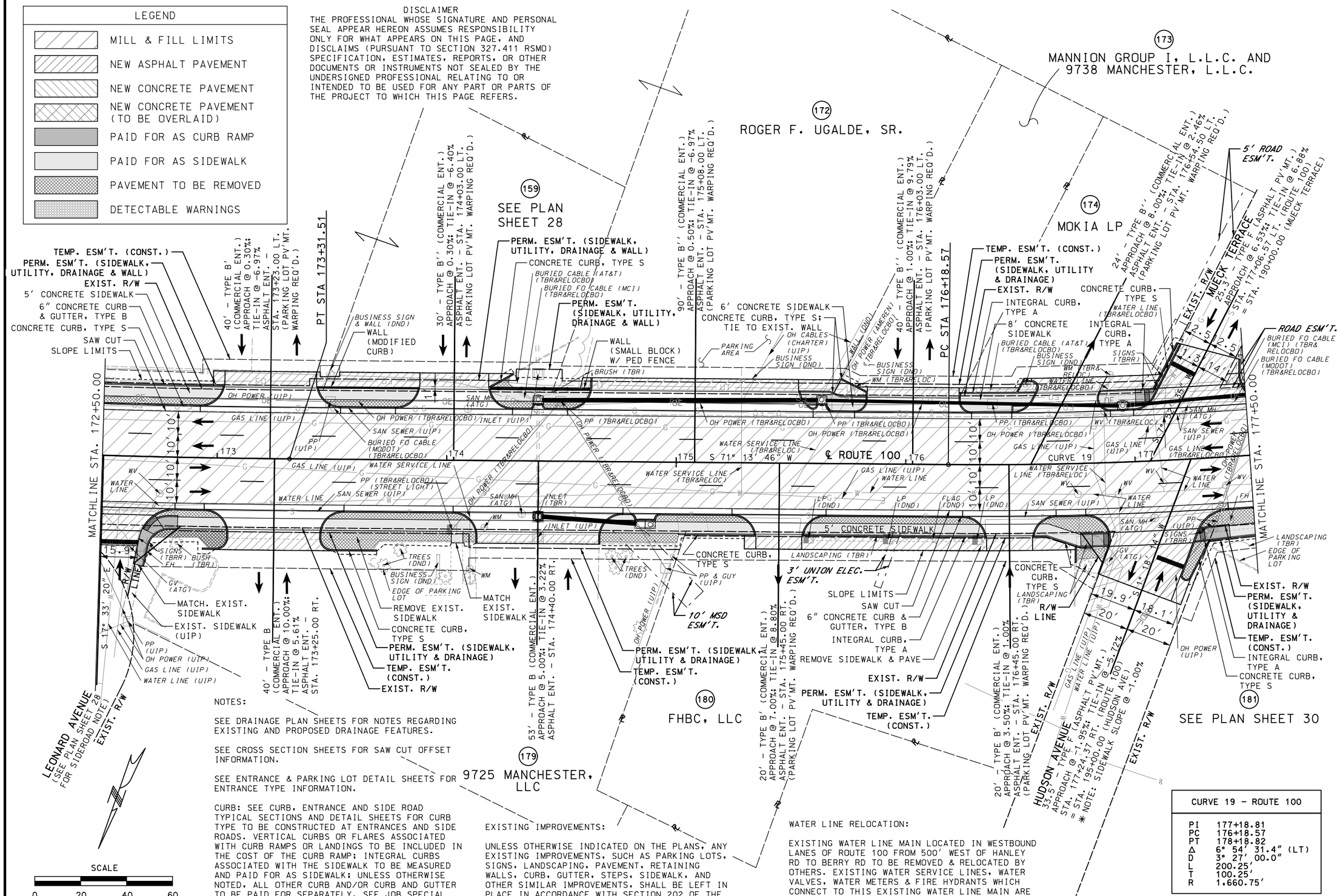
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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

CURVE 19 – ROUTE 100	
PI	177+18.81
PC	176+18.57
PT	178+18.82
Δ	6° 54' 31.4" (LT)
D	3° 27' 00.0"
L	200.25'
T	100.25'
R	1,660.75'

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 32
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

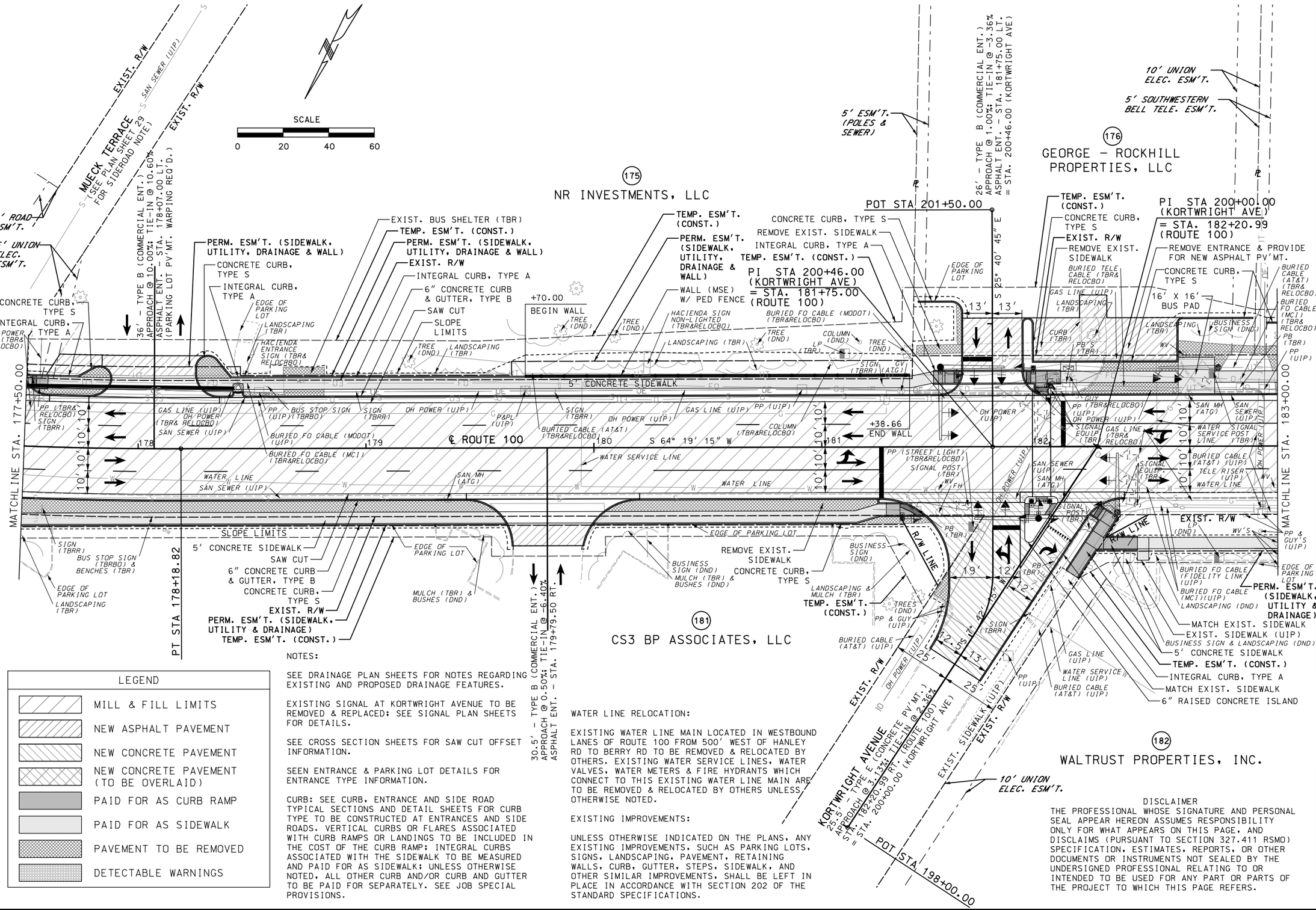
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PLAN
ROUTE 100
SHEET 29 OF 52

REV.

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTES:

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EXISTING SIGNAL AT KORTWRIGHT AVENUE TO BE REMOVED & REPLACED; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEEN ENTRANCE & PARKING LOT DETAILS FOR ENTRANCE TYPE INFORMATION.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	33
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE | DESCRIPTION | REV.

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PLAN
ROUTE 100
SHEET 30 OF 52

SCALE
0 20 40 60

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(177) DAN CHARLES WINTERMANTEL

(178) ALEXANDER VENTURES, LLC

(184) SEE PLAN SHEET 32

(182) SEE PLAN SHEET 30

(183) THE CITY OF ROCK HILL MUNICIPAL LIBRARY DISTRICT

(195) McDONALD'S CORPORATION

BLOSSOM LANE
25' – TYPE E (CONCRETE PV'MT.)
APPROACH @ -6.67%: TIE-IN @ -6.00%
STA. 184+63.00 LT. (ROUTE 100)
STA. 205+00.00 (BLOSSOM LN)
* NOTE: SIDEWALK SLOPE @ -1.00%

MANITOU DRIVE
26' – TYPE F (ASPHALT PV'MT.)
APPROACH @ 1.00%: TIE-IN @ 1.91%
STA. 186+63.10 LT. (ROUTE 100)
= STA. 210+00.00 (MANITOU DR)

30' – TYPE B (COMMERCIAL ENT.)
APPROACH @ 4.00%: TIE-IN @ 1.00%
ASPHALT ENT. – STA. 183+28.50 LT.

26' – TYPE B' (COMMERCIAL ENT.)
APPROACH @ 4.00%: TIE-IN @ 3.67%
CONCRETE ENT. – STA. 185+20.13 LT.

26' – TYPE B' (COMMERCIAL ENT.)
APPROACH @ 4.00%: TIE-IN @ 5.54%
CONCRETE ENT. – STA. 186+05.70 LT.

30' – TYPE B (COMMERCIAL ENT.)
APPROACH @ 9.00%: TIE-IN @ 10.41%
ASPHALT ENT. – STA. 187+30.00 LT.

MATCHLINE STA. 183+00.00

MATCHLINE STA. 187+50.00

℄ ROUTE 100

S 64° 19' 15" W

S 24° 26' 28" E

S 24° 46' 58" E

+68.54

TEMP. ESM'T. (CONST.)
SLOPE LIMITS
CONCRETE CURB, TYPE S
REMOVE EXIST. SIDEWALK
EXIST. R/W
6" CONCRETE CURB & GUTTER, TYPE B
SAW CUT
MATCH EXIST. SIDEWALK
INTEGRAL CURB, TYPE A
5' CONCRETE SIDEWALK
EXIST. SIDEWALK (UIP)
EXIST. R/W
MATCH EXIST. SIDEWALK
INTEGRAL CURB, TYPE A
TEMP. ESM'T. (CONST.)
EXIST. R/W
INTEGRAL CURB, TYPE A
CONCRETE CURB, TYPE S
EDGE OF PARKING LOT
PARKING BLOCKS (TBR) (TYP)
PARKING BLOCK (TBR)
SIGN (TBRR)
EXIST. R/W
CONCRETE CURB, TYPE S
EDGE OF PARKING LOT
GAS LINE (TBR&RELOCBO)
TEMP. ESM'T. (CONST.)
CONCRETE CURB, TYPE S
BURIED CABLE (AT&T) (TBR&RELOCBO)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED FO CABLE (MODOT) (TBR&RELOCBO)
OH POWER (TBR&RELOCBO)
CONCRETE CURB, TYPE S
GAS LINE (UIP)
BURIED FO CABLE (MCI) (UIP)
OH POWER (UIP)
SAN SEWER (UIP)
TREE (DND)
BUSINESS SIGN (DND)
BUS STOP SIGN & BENCH (TBR)
BUS STOP SIGN (TBRRBO)
WATER LINE
GAS LINE (UIP)
SAN SEWER (UIP)
BUS STOP SIGN (TBRRBO)
BURIED FO CABLE (MODOT) (TBR&RELOCBO)
BURIED CABLE (AT&T) (TBR&RELOCBO)
BURIED FO CABLE (MCI) (UIP)
BURIED FO CABLE (FIDELITY LINK) (UIP)
BURIED CABLE (AT&T) (UIP)
OH POWER (UIP)
OH CABLE (CHARTER)
WATER SERVICE LINE (UIP)
GAS LINE (UIP)
SAN SEWER (UIP)
WATER LINE
SAN MH (ATG)
BURIED CABLE (AT&T) (TBR&RELOCBO)
WATER SERVICE LINE (TBR&RELOC)
SAN MH (ATG)
LANDSCAPING (TBR)
OH POWER (UIP)
SAN SEWER (UIP)
GAS LINE (UIP)
INLET (UIP)
PP (UIP)
SIGN (TBRR)
OH POWER (TBR&RELOCBO)
TELE RISER (UIP)
P&LP (UIP)
GAS LINE (TBR&RELOCBO)
GV (TBR&RELOCBO)
WATER LINE
INLET (TBR)
P&LP (TBR&RELOCBO)
SAN SEWER (UIP)
BUSINESS SIGN (DND)
GV (TBR&RELOCBO)
EXIST. R/W
5' CONCRETE SIDEWALK
PP (UIP)
TELE RISER (UIP)
WV'S
LANDSCAPING (DND)
EXIST. CURB & GUTTER (UIP)
8' X 8' BUS PAD
PROP. RAMP, LANDING & SIDEWALK REPLACEMENT
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EDGE OF PARKING LOT
EXIST. COMMERCIAL ENT. STA. 184+28.00 RT. CONC. ENTRANCE (UIP)
WATER LINE
WV
WATER LINE
FH
INLETS (TBRR)
WALL (MSE) W/ PED FENCE
PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)
TREES (DND)
5' CONCRETE SIDEWALK
REMOVE EXIST. SIDEWALK
TEMP. ESM'T. (CONST.)
20' – TYPE B (COMMERCIAL ENT.)
APPROACH @ 0.50%: TIE-IN @ -3.60%
ASPHALT ENT. – STA. 184+99.00 RT.
10' LACLEDE GAS ESM'T.
CONCRETE CURB, TYPE S
PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)
TEMP. ESM'T. (CONST.)
WATER SERVICE LINE (TBR&RELOC)
INLET (UIP)
STORM ESM'T. (VAR. WIDTH)
CONCRETE CURB, TYPE S
20' – TYPE B'' (COMMERCIAL ENT.)
APPROACH @ 1.00%: TIE-IN @ -1.49%
ASPHALT ENT. – STA. 185+85.00 RT.
(PARKING LOT PV'MT. WARPING REQ'D.)
OH POWER (UIP)
15' SEWER ESM'T.
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
LP (DND)
WALL (DND)
LANDSCAPING (TBR)
INTEGRAL CURB, TYPE A
SLOPE LIMITS
SAW CUT
6" CONCRETE CURB & GUTTER, TYPE B
5' CONCRETE SIDEWALK
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
22' – TYPE B (COMMERCIAL ENT.)
APPROACH @ 10.00%: TIE-IN @ 9.09%
ASPHALT ENT. – STA. 186+93.90 RT.
OH CABLE (CHARTER) (UIP)
BURIED CABLE (AT&T) (TBR&RELOCBO)
BUSINESS SIGN (DND)

LEGEND
- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

EXISTING IMPROVEMENTS:

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WATER LINE RELOCATION:

EXISTING WATER LINE MAIN LOCATED IN WESTBOUND LANES OF ROUTE 100 FROM 500' WEST OF HANLEY RD TO BERRY RD TO BE REMOVED & RELOCATED BY OTHERS. EXISTING WATER SERVICE LINES, WATER VALVES, WATER METERS & FIRE HYDRANTS WHICH CONNECT TO THIS EXISTING WATER LINE MAIN ARE TO BE REMOVED & RELOCATED BY OTHERS UNLESS OTHERWISE NOTED.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

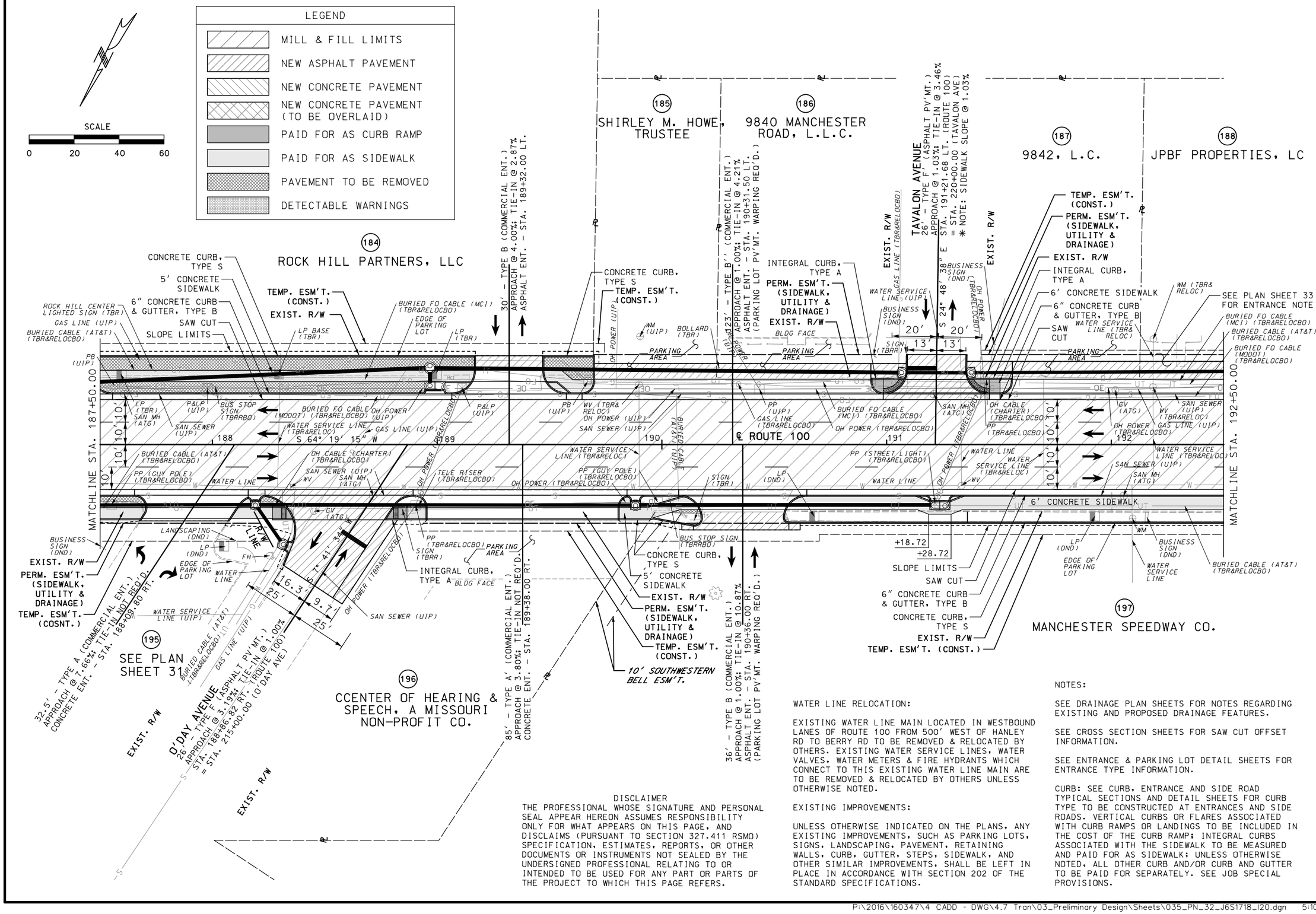
DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 34
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

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PLAN
ROUTE 100
SHEET 31 OF 52



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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 35
COUNTY ST. LOUIS
JOB NO. J6S1718
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BRIDGE NO. .

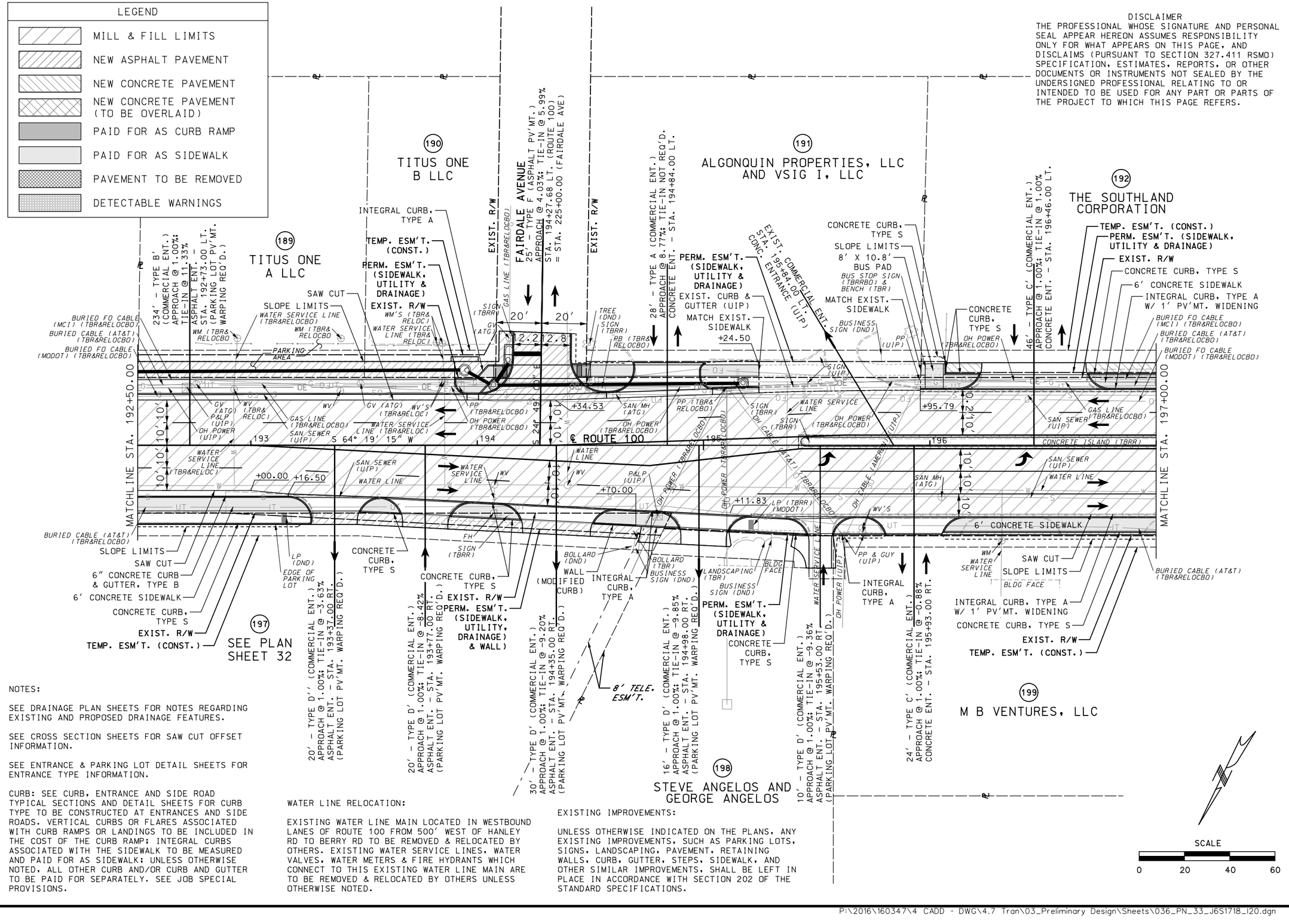
DATE | DESCRIPTION

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PLAN
ROUTE 100
SHEET 32 OF 52

REV.



NOTES:

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
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COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
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PLAN
ROUTE 100
SHEET 33 OF 52

REV.

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EXISTING SIGNAL AT BERRY ROAD TO BE REMOVED & REPLACED; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

(192) SEE PLAN SHEET 33

(193) MANCHESTER PROPERTY INVESTORS LLC

(194) 9910 LLC

(200) SCOTT REALTY HOLDINGS, LLC

(201) LAURIE'S SHOE CENTER, INC.

(202) SEE PLAN SHEET 35

(199) SEE PLAN SHEET 33

BERRY ROAD
54' WIDE CONC. PV'MT. W/ ASPH. OVERLAY
APPROACH @ -2.00%: TIE-IN @ -3.62%
STA. 197+65.15 LT. (ROUTE 100)
= STA. 230+09.00 (BERRY RD)
* SIDEWALK SLOPE @ -1.00%

BERRY ROAD
25' WIDE CONC. PV'MT. W/ ASPH. OVERLAY
APPROACH @ -0.57%: TIE-IN @ -1.58%
STA. 197+74.16 RT. (ROUTE 100)
= STA. 230+00.00 (BERRY RD)
* NOTE: SIDEWALK SLOPE @ -1.00%

SALEM HILLS DRIVE
26.5' - TYPE F (ASPHALT PV'MT.)
APPROACH @ 1.09%: TIE-IN @ 6.67%
STA. 202+26.82 RT. (ROUTE 100)
= STA. 240+00.00 (SALEM HILLS DR)
* NOTE: SIDEWALK SLOPE @ 1.09%

MONIER PLACE
23.3' - TYPE F (ASPHALT PV'MT.)
APPROACH @ -1.13%: TIE-IN @ -8.14%
STA. 200+08.37 LT. (ROUTE 100)
= STA. 235+00.00 (MONIER PL)
* NOTE: SIDEWALK SLOPE @ -7.13%

20' - TYPE D'' (COMMERCIAL ENT.)
APPROACH @ 0.41%: TIE-IN @ 0.56%
ASPHALT ENT. - STA. 200+24.51
(PARKING LOT PV'MT. WARPING REQ'D.)
= STA. 235+44.98 LT. MONIER PL)
* NOTE: SIDEWALK SLOPE @ 0.56%

30'' - TYPE D'' (COMMERCIAL ENT.)
APPROACH @ 0.30%: TIE-IN @ -6.58%
ASPHALT ENT. - STA. 199+20.75 LT.
(PARKING LOT PV'MT. WARPING REQ'D.)
* NOTE: SIDEWALK SLOPE @ 0.30%

30'' - TYPE C' (COMMERCIAL ENT.)
APPROACH @ 4.00%: TIE-IN NOT REQ'D
CONCRETE ENT. - STA. 198+70.00 LT.

30'' - TYPE D (COMMERCIAL ENT.)
APPROACH @ 0.50%: TIE-IN @ -6.20%
ASPHALT ENT. - STA. 201+47.00 LT.

48' - TYPE D (COMMERCIAL ENT.)
APPROACH @ 0.50%: TIE-IN @ -1.42%
ASPHALT ENT. - STA. 200+85.00 LT.

32' - TYPE D (COMMERCIAL ENT.)
APPROACH @ 10.00%: TIE-IN @ 9.50%
ASPHALT ENT. - STA. 200+26.75 RT.

POT STA 231+50.00
POT STA 229+00.00
PC STA 198+47.20
PI STA 230+00.00 (BERRY RD) = STA. 197+74.16 (ROUTE 100)
PI STA 230+09.00 (BERRY RD) = STA. 197+65.15 (ROUTE 100)
PT STA 200+47.19
PDT STA 201+00.00
PC STA 238+68.72
PT STA 239+52.67
MATCHLINE STA. 197+00.00
MATCHLINE STA. 202+50.00
℄ ROUTE 100 +43.84
CURVE 20
CURVE 1
EQUATION: Sta 201+10.00 BK = Sta 201+00.00 AH

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

CURVE 20 – ROUTE 100	
PI	199+47.30
PC	198+47.20
PT	200+47.19
Δ	6° 33' 59.3" (RT)
D	3° 17' 00.0"
L	199.99'
T	100.11'
R	1,745.05'

CURVE 1 – SALEM HILLS DR	
PI	239+11.01
PC	238+68.72
PT	239+52.67
Δ	17° 12' 54.1" (LT)
D	20° 30' 18.9"
L	83.95'
T	42.30'
R	279.42'

SCALE 0 20 40 60

DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	37
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

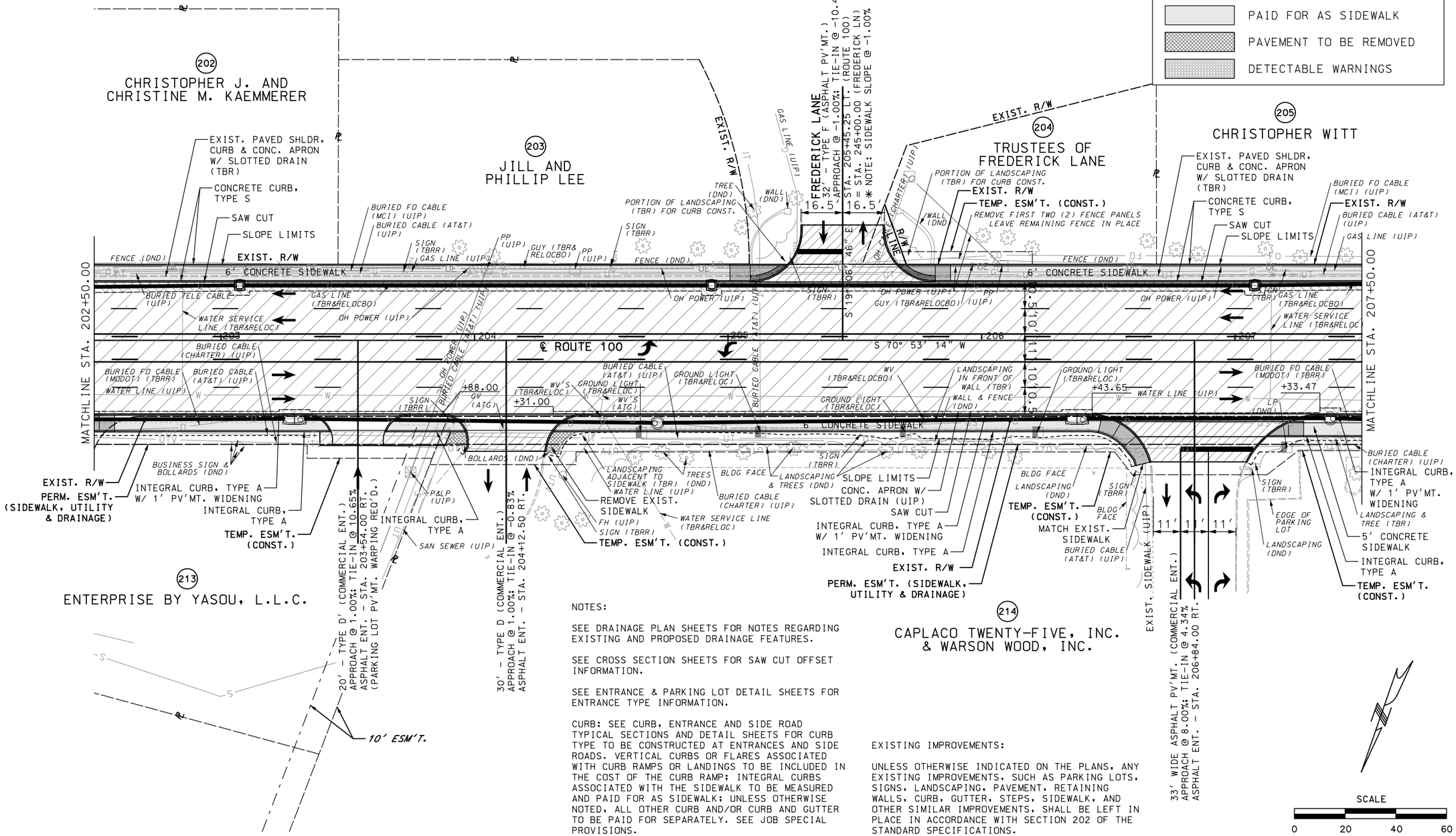
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(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 34 OF 52

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LEGEND
- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS



NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

EXISTING IMPROVEMENTS:

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 38
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

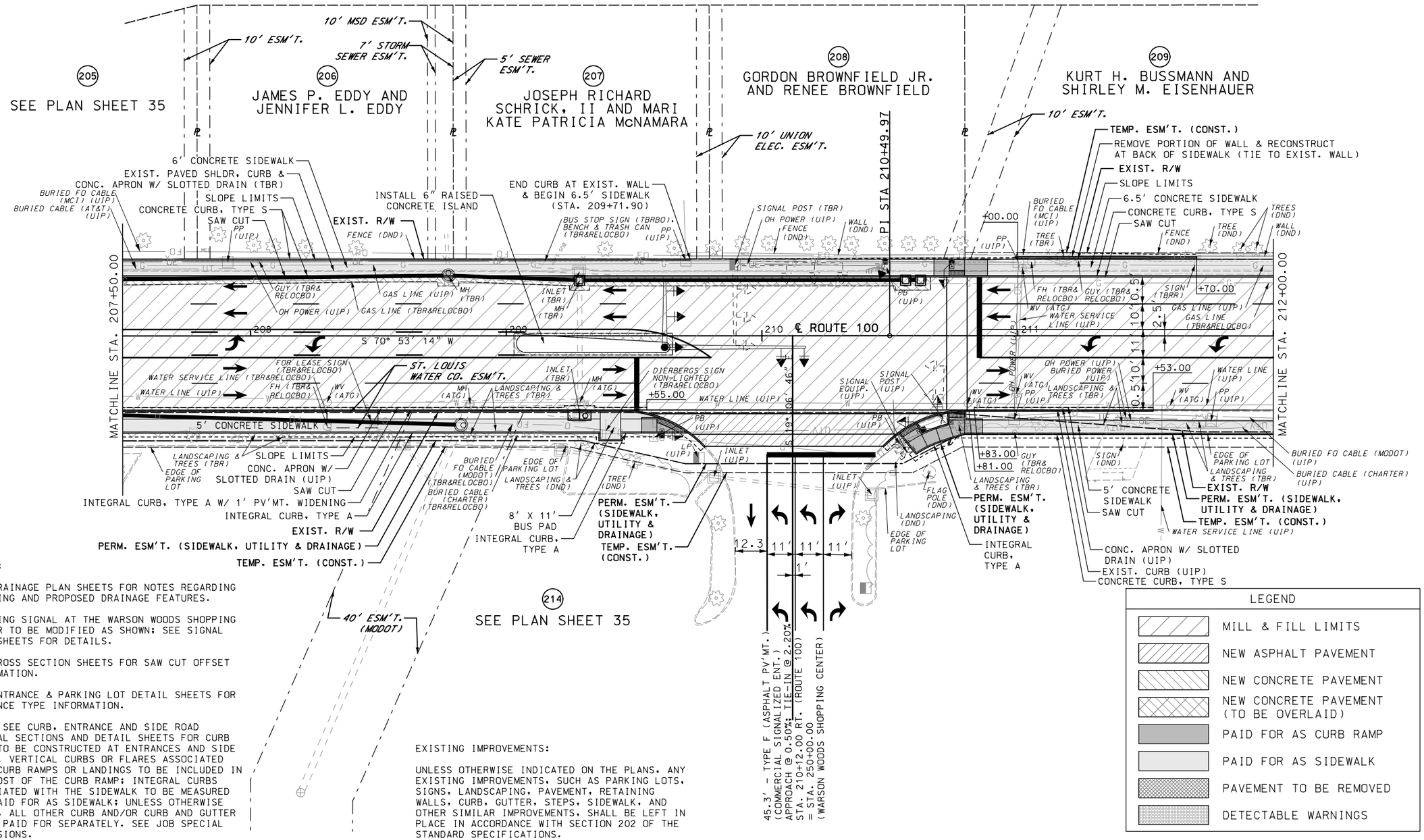
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PLAN
ROUTE 100
SHEET 35 OF 52

REV.

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SCALE
0 20 40 60



NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT THE WARSON WOODS SHOPPING CENTER TO BE MODIFIED AS SHOWN; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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LEGEND
- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 39
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

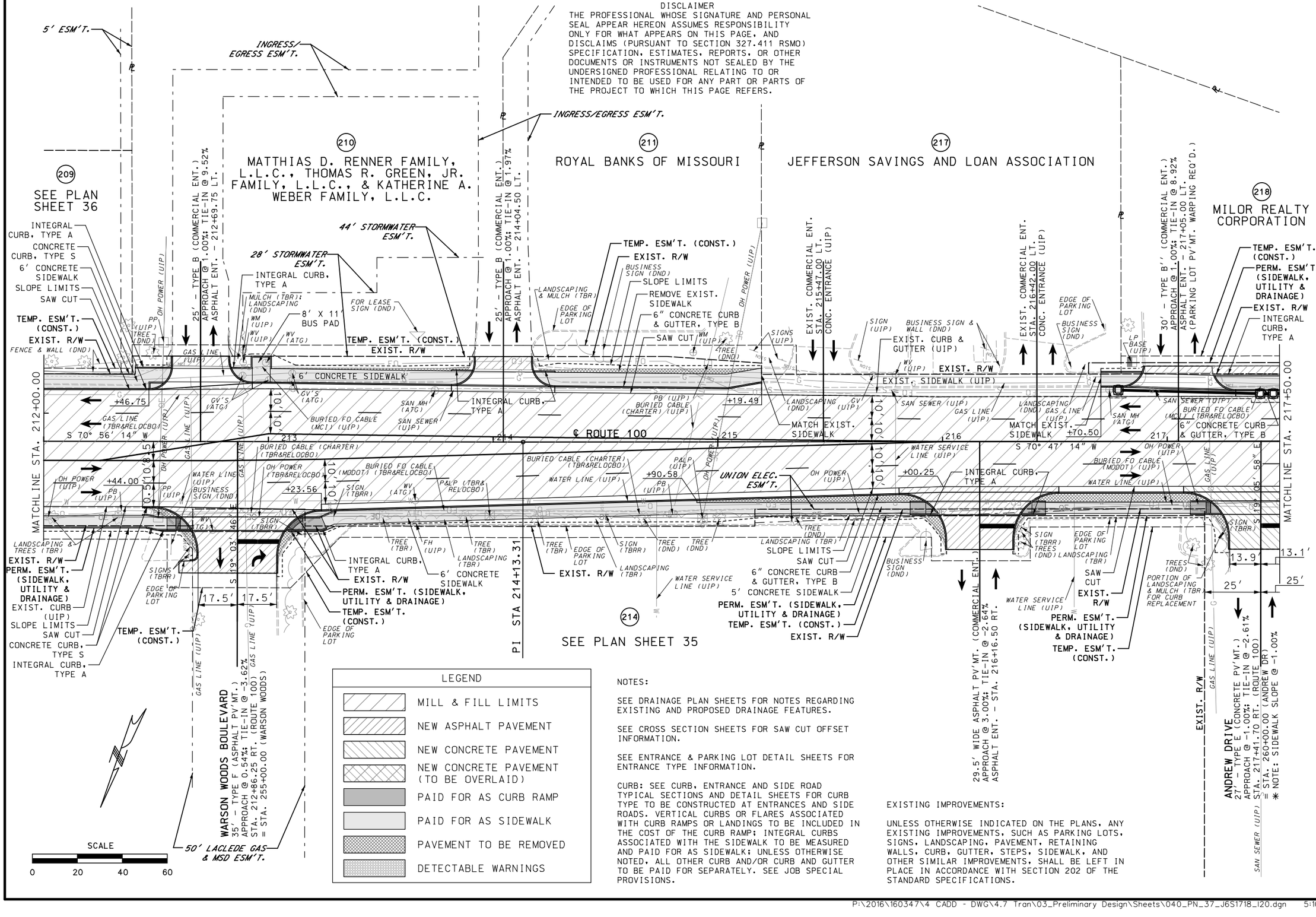
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PLAN
ROUTE 100
SHEET 36 OF 52

REV.

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
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- DETECTABLE WARNINGS

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 40
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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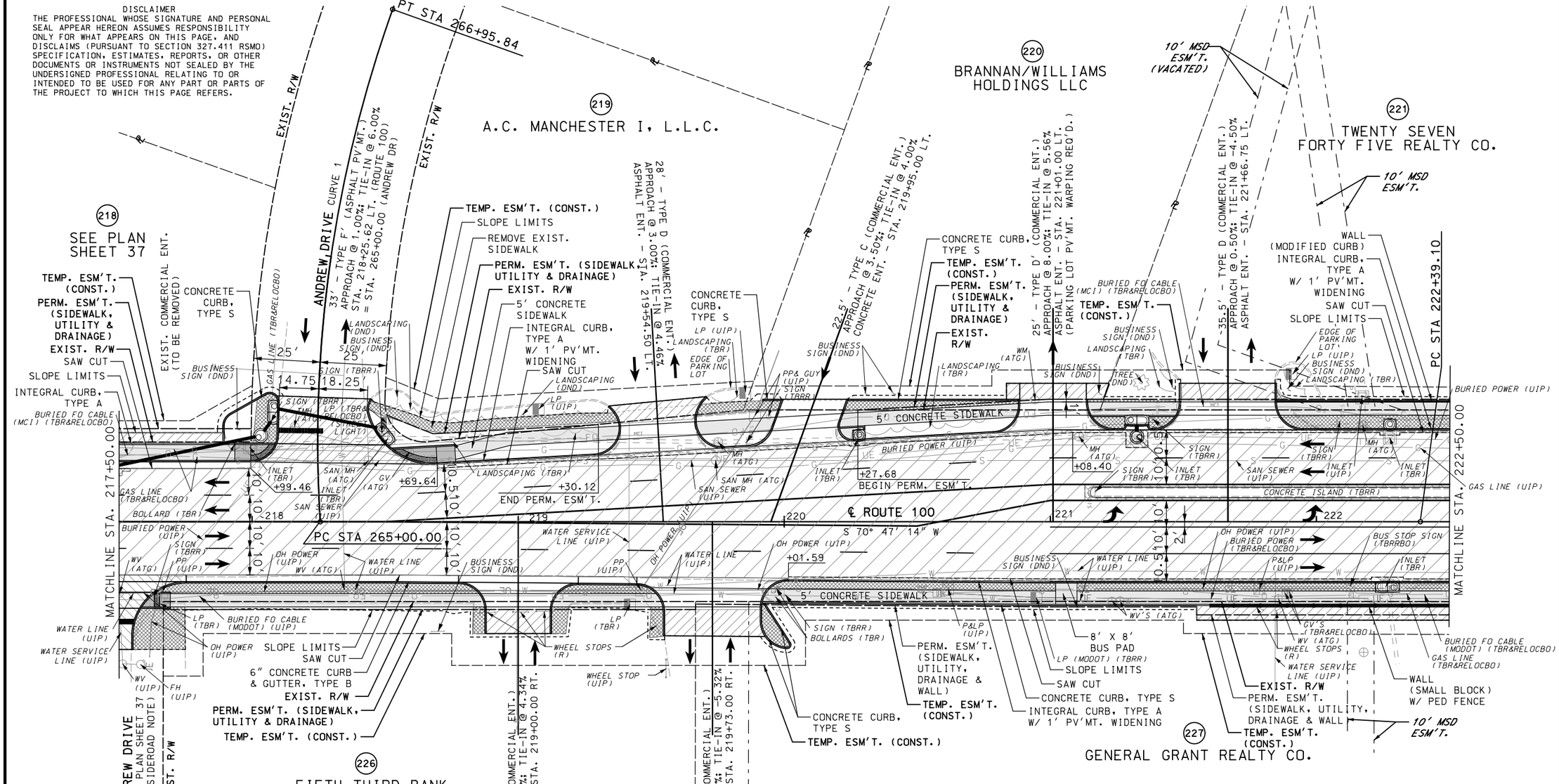
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PLAN
ROUTE 100
SHEET 37 OF 52

REV.

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NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

CURVE 1 - ANDREW DR	
PI	265+99.29
PC	265+00.00
PT	266+95.84
Δ	23° 19' 40.4" (RT)
D	11° 54' 42.5"
L	195.84'
T	99.29'
R	481.00'

SCALE
0 20 40 60

DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	41
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 38 OF 52

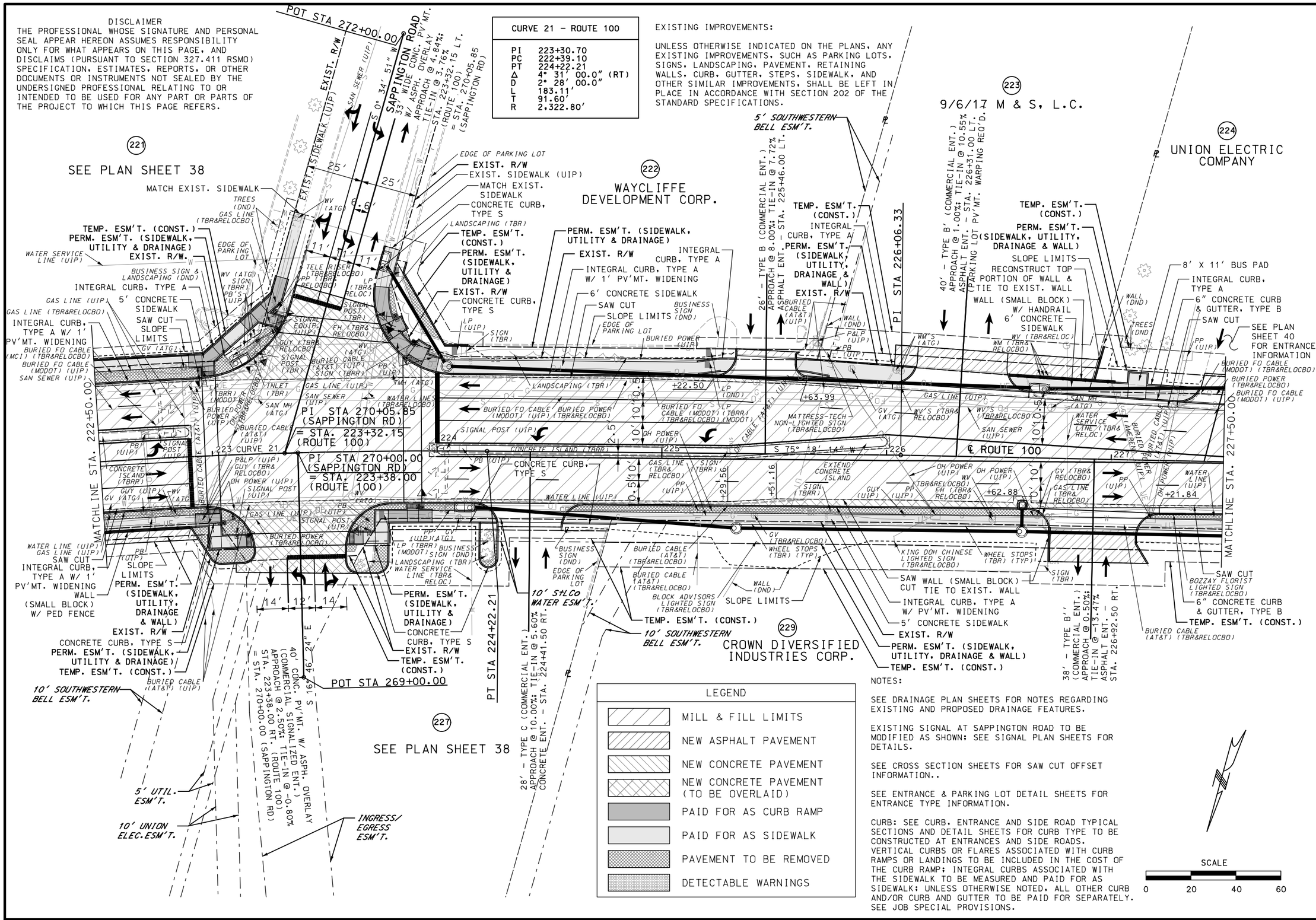
REV.

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CURVE 21 – ROUTE 100	
PI	223+30.70
PC	222+39.10
PT	224+22.21
Δ	4° 31' 00.0" (RT)
D	2° 28' 00.0"
L	183.11'
T	91.60'
R	2,322.80'

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.



LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT SAPPINGTON ROAD TO BE MODIFIED AS SHOWN; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION..

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

SCALE
0 20 40 60

DATE PREPARED
3/13/2020
ROUTE: 100 — STATE: MO
DISTRICT: SL — SHEET NO.: 42
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION / DATE / REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PLAN
ROUTE 100
SHEET 39 OF 52

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

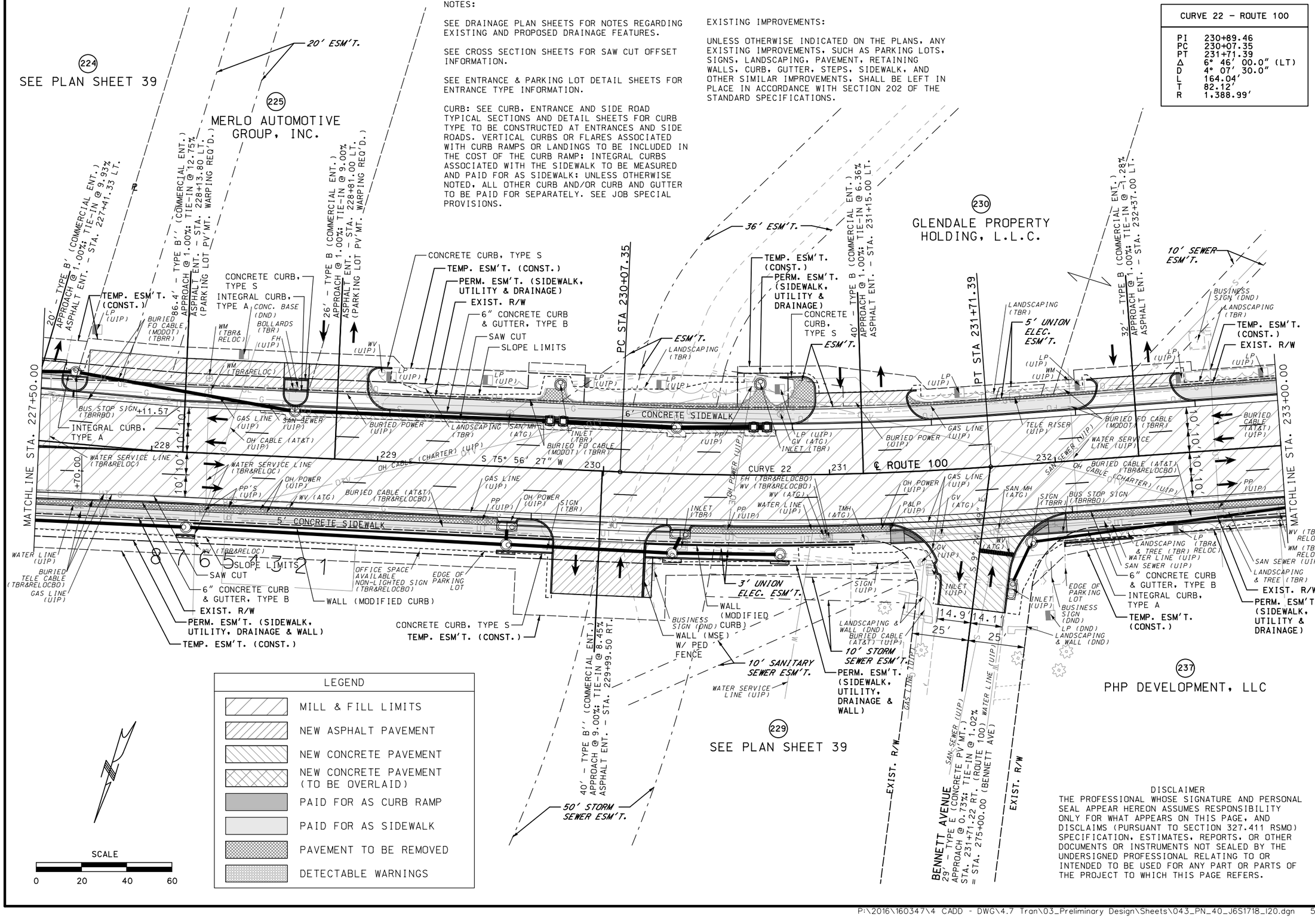
SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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CURVE 22 – ROUTE 100	
PI	230+89.46
PC	230+07.35
PT	231+71.39
Δ	6° 46′ 00.0″ (LT)
D	4° 07′ 30.0″
L	164.04′
T	82.12′
R	1,388.99′



LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE
0 20 40 60

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 43
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6800
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 40 OF 52

REV.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

EXISTING IMPROVEMENTS:

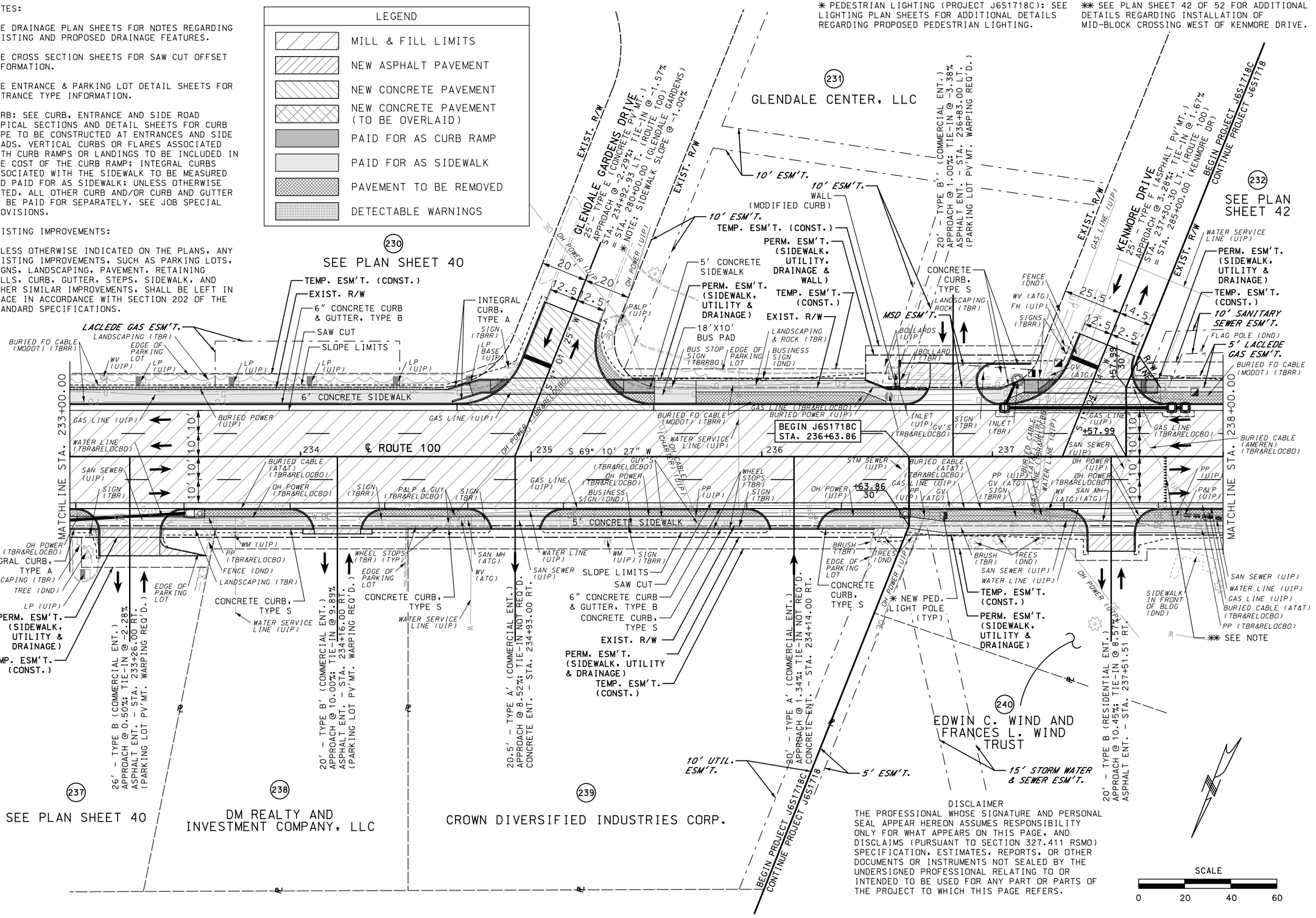
UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

✳ PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

✳✳ SEE PLAN SHEET 42 OF 52 FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING WEST OF KENMORE DRIVE.



DISCLAIMER

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DATE PREPARED 3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	44

COUNTY ST. LOUIS

JOB NO. J6S1718/J6S1718C

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN

ROUTE 100

SHEET 41 OF 52

REV.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

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MATCHLINE STA. 238+00.00

232 SWEETGUM PROPERTIES, LLC

233 SWEETGUM PROPERTIES, LLC

234 10132 MANCHESTER ROAD, LLC

235 10134 MANCHESTER ROAD, LLC

236 DORIS M. CANNON

243 SEE PLAN SHEET 43

MATCHLINE STA. 243+00.00

18' - TYPE A (COMMERCIAL ENT.) APPROACH @ 3.00%; TIE-IN @ 4.90% CONCRETE ENT. - STA. 238+91.00 LT.

18' - TYPE A (COMMERCIAL ENT.) APPROACH @ 3.00%; TIE-IN @ 4.97% CONCRETE ENT. - STA. 240+53.50 LT.

15' - TYPE A' (COMMERCIAL ENT.) APPROACH @ 0.50%; TIE-IN @ -6.81% CONCRETE ENT. - STA. 241+38.00 LT.

30' - TYPE B' (COMMERCIAL ENT.) APPROACH @ 9.00%; TIE-IN @ 3.95% ASPHALT ENT. - STA. 242+51.00 LT. (PARKING LOT PV'MT. WARPING REQ'D.)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
5' LACLEDE GAS ESM'T.
10' SANITARY SEWER ESM'T.
RRFB & LIGHT POLE
MATCH EXIST. SIDEWALK
17' DRIVEWAY ESM'T.
MATCH EXIST. SIDEWALK
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK & UTILITY)
EXIST. R/W
6" CONCRETE CURB & GUTTER, TYPE B
SAW CUT
SLOPE LIMITS
MATCH EXIST. SIDEWALK
15' SANITARY SEWER ESM'T.
10' SANITARY SEWER ESM'T.
5' LACLEDE GAS ESM'T.
MATCH EXIST. SIDEWALK
7.5' ESM'T.
TEMP. ESM'T. (CONST.)
LANDSCAPING & WALL (DND)
MATCH EXIST. SIDEWALK
INTEGRAL CURB, TYPE A
EDGE OF PARKING LOT
BRUSH (TBR)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
CONCRETE CURB, TYPE S
BUSINESS SIGN & WALL (DND)
GAS LINE (UIP)

5' CONCRETE SIDEWALK

BURIED FO CABLE (MODOT) (TBRR)
GAS LINE (UIP)
WATER SERVICE LINE (UIP)
BURIED FO CABLE (MODOT) (TBRR)
GV (ATG)
INLET (TBR)
GAS LINE (UIP)
WATER SERVICE LINE (UIP)
WATER SERVICE LINE (UIP)
BURIED FO CABLE (MODOT) (TBRR)

POT STA 290+00.00
S 69° 10' 27" W
239 240 ℄ ROUTE 100 241 242
10' 10' 10'

SAN SEWER (UIP)
OH POWER (TBR&RELOCBO)
GAS LINE (UIP)
BUS STOP SIGN (TBRRBO)
SAN MH (ATG)
WATER LINE (UIP)
WV (ATG)
WV (TBR&RELOCBO)
FH (TBR& RELOCBO)
BURIED CABLE (AT&T) (UIP)
WATER SERVICE LINE (UIP)
CITY OF KIRKWOOD VERTICAL GATEWAY STA. 240+25.00 RT.
BUSHES (TBR)
PP (UIP)
SAN MH (ATG)
INLETS (UIP)
BURIED CABLE (AT&T) (TBR&RELOCBO)
OH POWER (UIP)
P&LP (UIP)
SIGN (TBR)
GAS LINE (TBR&RELOCBO)
SAN SEWER (UIP)
WATER LINE (UIP)
P&LP (UIP)
SIGN (TBRR)

S 20° 49' 33" E

SIGN (TBRR)
RRFB & LIGHT POLE
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.) 8' X 10' BUS PAD
INTEGRAL CURB, TYPE A
WALL (TBR)
OH POWER (TBR& RELOCBO)
13.5 13.5
25' 25'
WALL (TBR)
TREE (DND)
SIGN (TBRR)
BUSHES (TBR)
PERM. ESM'T. (SIDEWALK & UTILITY)
TEMP. ESM'T. (CONST.)
TREE (DND)
SIGN (TBRR)
PP (UIP)
SAN SEWER (UIP)
WATER LINE (UIP)
OH POWER (UIP)
GAS LINE (UIP)
SAW CUT
6" CONCRETE CURB & GUTTER, TYPE B
PERM. ESM'T. (SIDEWALK, UTILITY & VERT. GATEWAY)
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
5' ESM'T.
10' SEWER ESM'T.
SAN SEWER (UIP)
TREES (TBR)
EXIST. SIDEWALK (R)
EDGE OF PARKING LOT
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
* NEW PED. LIGHT POLE (TYP.)
MATCH EXIST. SIDEWALK
10' STORM SEWER ESM'T.
TREES (DND)
1.8 13.2
25' 25'
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. SIDEWALK (R)
MATCH EXIST. SIDEWALK
WATER SERVICE LINE (UIP)
TREE (DND)
TREES (DND)

PC STA 289+00.00
PT STA 289+49.68
CURVE 1
WATER SERVICE LINE (UIP)
GAS LINE (UIP)
WATER LINE (UIP)
GAS LINE (UIP)
WATER SERVICE LINE (UIP)
WATER SERVICE LINE (UIP)
GAS LINE (UIP)
WATER LINE (UIP)

240 SEE PLAN SHEET 41

241 EDWIN C. WIND & FRANCES L. WIND TRUST

242 WOODLAWN CONDOMINIUMS

EXIST. R/W
STURGIS DRIVE
27' - TYPE F (ASPHALT PV'MT.)
APPROACH @ 2.50%; TIE-IN @ -1.00%
STA. 238+61.40 RT. (ROUTE 100)
= STA. 290+00.00 (STURGIS DR)
EXIST. R/W

EXIST. R/W
MARIEDALE COURT
25' - TYPE E (CONCRETE PV'MT.)
APPROACH @ 1.00%; TIE-IN @ 1.34%
STA. 242+30.64 RT. (ROUTE 100)
= STA. 295+00.00 (MARIEDALE CT)
EXIST. R/W

CURVE 1 - STURGIS DR	
PI	289+24.96
PC	289+00.00
PT	289+49.68
Δ	13° 53' 07.3" (LT)
D	27° 56' 57.0"
L	49.68'
T	24.96'
R	205.00'

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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INSTALLATION OF MID-BLOCK CROSSING:

SEE SIGNAL SHEETS FOR ADDITIONAL DETAILS REGARDING INSTALLATION OF MID-BLOCK CROSSING, RECTANGULAR RAPID FLASHING BEACON (RRFB), ADVANCED LIGHTING & SIGNING AT CROSSING.

SCALE
0 20 40 60

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 45
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

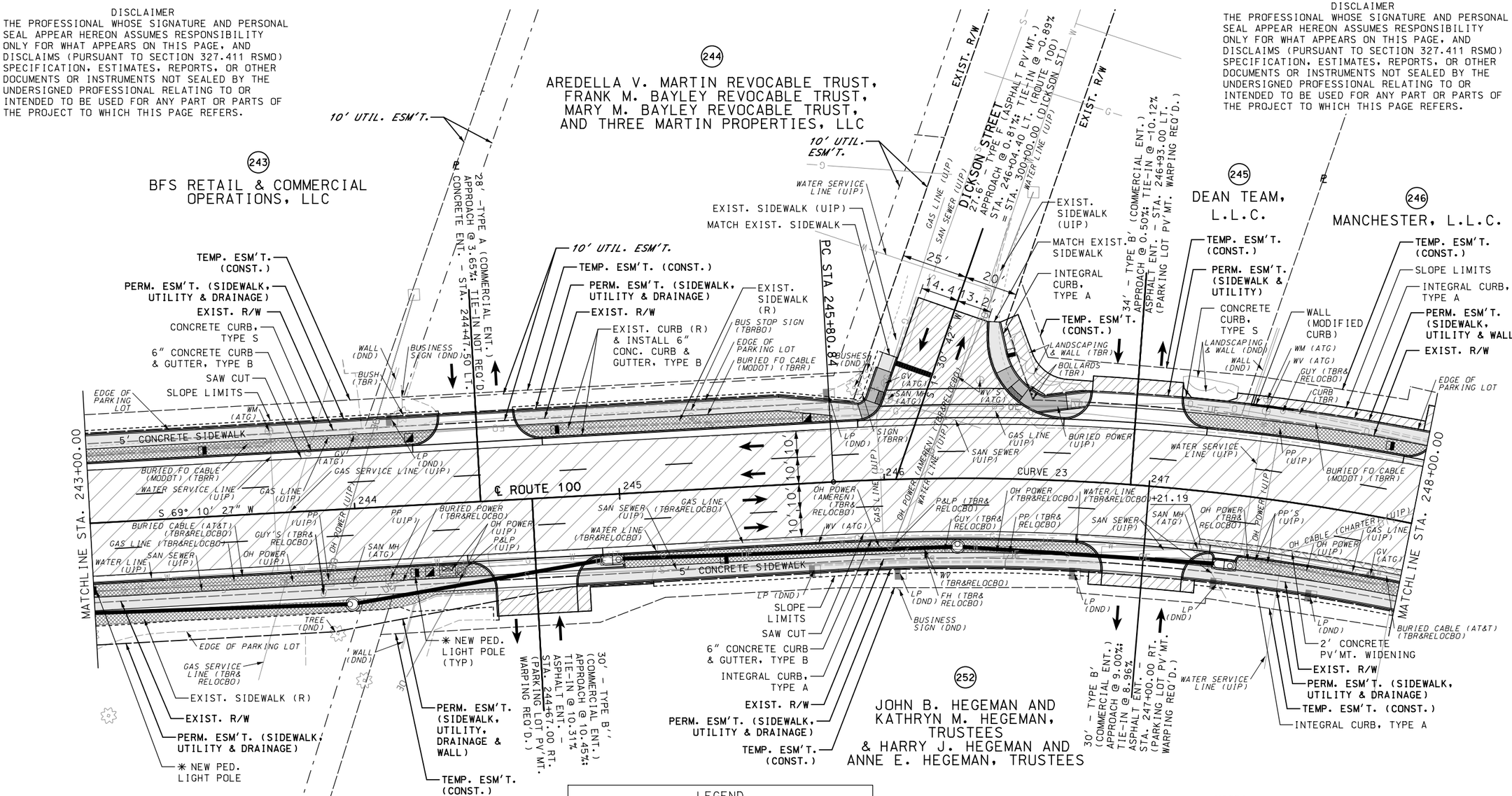
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(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 42 OF 52

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CURVE 23 – ROUTE 100	
PI	247+00.41
PC	245+80.84
PT	248+18.47
Δ	15° 48' 09.5" (RT)
D	6° 39' 00.0"
L	237.63'
T	119.58'
R	861.59'

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

✳ PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

DATE PREPARED	
3/13/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	46
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718/J6S1718C	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
TWM
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PLAN
ROUTE 100
SHEET 43 OF 52

REV.

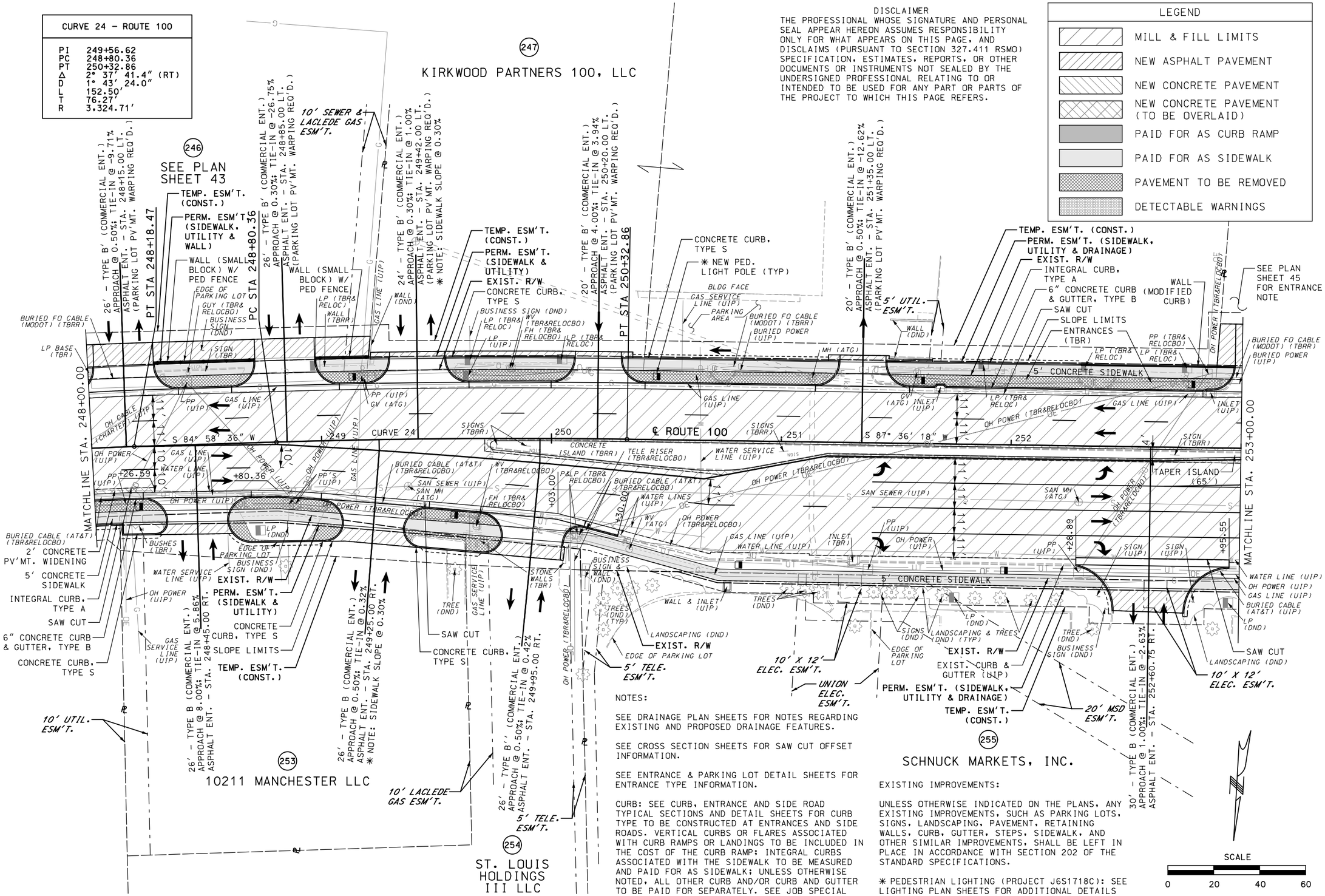
CURVE 24 – ROUTE 100	
PI	249+56.62
PC	248+80.36
PT	250+32.86
Δ	2° 37′ 41.4″ (RT)
D	1° 43′ 24.0″
L	152.50′
T	76.27′
R	3,324.71′

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LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS



NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

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✱ PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

SCALE
0 20 40 60

DESCRIPTION

DATE PREPARED
3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	47

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 44 OF 52

REV.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT WOODLAWN AVENUE TO BE REMOVED & REPLACED; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

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END IMPROVEMENTS STA. 307+54.47

30' – TYPE B' (COMMERCIAL ENT.) APPROACH @ 6.00%; TIE-IN @ 8.43% ASPHALT ENT. – STA. 306+79.21 LT. (WOODLAWN AVE) (PARKING LOT PV'MT. WARPING REQ'D.)

END 7" CONC. PV'MT. W/ 1-¾" ASPHALT OVERLAY BEGIN MILL & OVERLAY STA. 306+36.92 (WOODLAWN AVE)

249

30' – TYPE B' (COMMERCIAL ENT.) APPROACH @ 10.45%; TIE-IN @ 11.00% ASPHALT ENT. – STA. 253+12.00 LT. (PARKING LOT PV'MT. WARPING REQ'D.)

10260 MANCHESTER, LLC

PI STA 305+00.00 (WOODLAWN AVE) = STA 254+67.39 (ROUTE 100)

PI STA 305+06.46 (WOODLAWN AVE) = STA 254+73.85 (ROUTE 100)

℄ WOODLAWN AVE.

℄ ROUTE 100

MATCHLINE STA. 253+00.00

MATCHLINE STA. 303+50.00

MATCHLINE STA. 258+00.00

SEE PLAN SHEET 44

END 7" CONC. PV'MT. W/ 1-¾" ASPH. OVERLAY BEGIN MILL & OVERLAY STA. 303+59.02 (WOODLAWN AVE)

255

256

257

WOODLAWN AVE. NORTH END DETAIL

SEE BELOW

(FOR DETAIL ONLY) SCALE 0 20 40 60

PI STA 301+64.57

BEGIN IMPROVEMENTS STA. 301+34.29

250

BROWN AND SONS FOODLINER, INC.

CARMELITE SISTERS OF THE DIVINE HEART OF JESUS OF MISSOURI

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✳ PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE 0 20 40 60

DATE PREPARED 3/13/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 48

COUNTY ST. LOUIS

JOB NO. J6S1718/J6S1718C

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

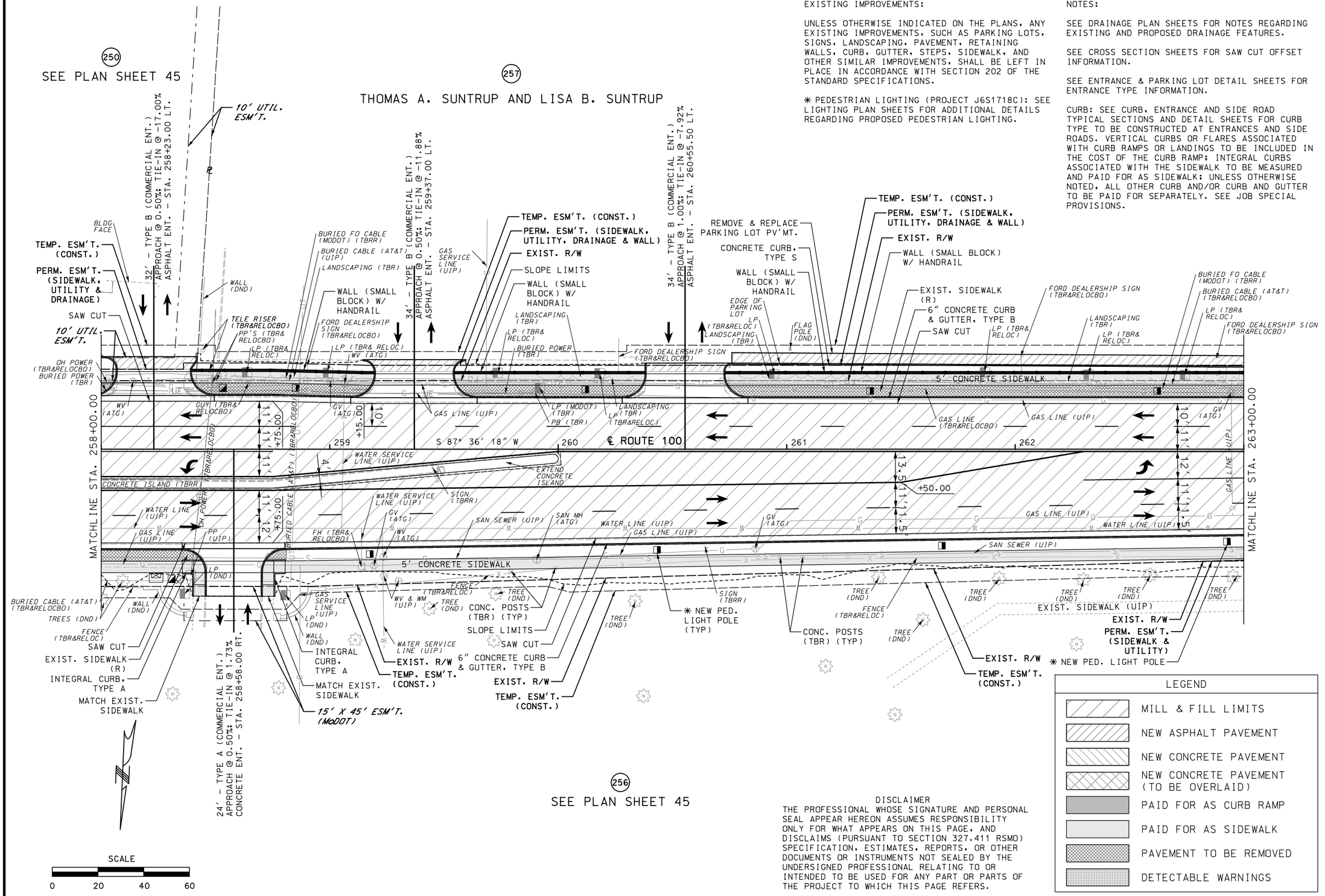
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 45 OF 52

REV. .

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\048_PN_45_J6S1718C_120.dgn 5:10:36 PM 3/13/2020



EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

* PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

256
SEE PLAN SHEET 45

DISCLAIMER
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LEGEND
- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 49
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION	REV.
.	.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
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GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN
ROUTE 100
SHEET 46 OF 52

SCALE
0 20 40 60

(257) SEE PLAN SHEET 6

EXIST. SIDEWALK (UIP)
MATCH EXIST. SIDEWALK
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)
LP (TBR&RELOC)
WALL (SMALL BLOCK)
CONCRETE CURB, TYPE S (REMOVE & REPLACE PARKING LOT PV'MT.)

EXIST. R/W

WOOD AVENUE
34' - TYPE F (ASPHALT PV'MT.)
APPROACH @ 1.90%; TIE-IN @ 2.00%
STA. 263+54.42 LT. (ROUTE 100)
= STA. 310+00.00 (WOOD AVE)

GAS LINE (UIP)
GAS LINE (UIP)
OH POWER (UIP)
SAN SEWER (UIP)
WATER SERVICE LINE (UIP)
WATER LINE (UIP)
INLET (UIP)
PP (UIP)
SIGN (TBRR)
FH (UIP)
S 1° 51' 19" W
24.5'
15.5'
7.01'
17'
WATER SERVICE LINE (UIP)
10' UTIL. ESM'T.
10' SEWER ESM'T.
* NEW PED. LIGHT POLE (TYP)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
5' CONCRETE SIDEWALK
CONCRETE CURB, TYPE S
EXIST. R/W
SAW CUT
SLOPE LIMITS
BLDG FACE
SIDEWALK (UIP)
PARKING AREA
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (UTILITY & DRAINAGE)
EXIST. R/W
5' TELE. ESM'T.
SIGNAL POST (UIP)
WALL (DND)
GAS LINE (UIP)
WATER LINE (UIP)
20'
20'
17'
11'

155' - TYPE B' (COMMERCIAL ENT.)
APPROACH @ 1.00%; TIE-IN @ 2.66%
ASPHALT ENT. - STA. 264+80.50 LT.
(PARKING LOT PV'MT. WARPING REQ'D.)

(258) S N S LIMITED

POT STA 316+00.00
PI STA 315+00.00 (SYLVAN PL)
= STA 265+84.69 (ROUTE 100)

SYLVAN PLACE
28' - TYPE F (ASPHALT PV'MT.)
APPROACH @ 1.00%; TIE-IN @ -0.50%
STA. 265+91.50 LT. (ROUTE 100)
= STA. 315+06.81 (SYLVAN PL)

* PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

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(259) C&B PROPERTIES, L.L.C.

WATER SERVICE LINE (UIP)
WV (UIP)
SIGN (TBRR)
SIGNAL POST (UIP)
PERM. ESM'T. (UTILITY, DRAINAGE & WALL)
INTEGRAL CURB, TYPE A
GAS SERVICE LINE (UIP)
WV (ATG)
PARKING AREA
BLDG FACE
SIDEWALK (UIP)
WALL (MODIFIED CURB)
MATCH EX. SIDEWALK
5' CONC. SIDEWALK

66' - TYPE B' (COMMERCIAL ENT.)
APPROACH @ 1.00%; TIE-IN @ 11.31%
ASPHALT ENT. - STA. 266+75.00 LT.
(PARKING LOT PV'MT. WARPING REQ'D.)

(260) SAINT LOUIS DENT COMPANY LLC

10' UTIL. ESM'T.
CONCRETE CURB, TYPE S
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)
SLOPE LIMITS
EXIST. R/W
5' CONCRETE SIDEWALK
BLDG FACE

36' - TYPE B' (COMMERCIAL ENT.)
APPROACH @ 1.00%; TIE-IN @ -8.27%
ASPHALT ENT. - STA. 267+42.00 LT.
(PARKING LOT PV'MT. WARPING REQ'D.)

MATCHLINE STA. 263+00.00

GUY'S (UIP)
MH (ATG)
BURIED FO CABLE (MODOT) (TBRR)
BURIED CABLE (AT&T) (TBR&RELOCBO)
GAS LINE (TBR&RELOCBO)
GV'S (TBR&RELOCBO)
INLET (UIP)
GV (TBR&RELOCBO)
BURIED POWER (TBR& RELOCBO)
GV (ATG)
GAS LINE (UIP)
SIGN (TBR& RELOCBO)
LP (DND)
BURIED FO CABLE (MODOT) (TBRR)
BURIED CABLE (AT&T) (TBR&RELOCBO)

℄ ROUTE 100
S 87° 29' 38" W
264
265
266
267
10'
11'
+25.00
+37.39
+65.00
+21.17
+90.00
S 0° 00' 00" E

WV (ATG)
WATER LINE (UIP)
GAS LINE (UIP)
SIGN (TBRR)
SAN SEWER (UIP)
SAN MH (ATG)
P&LP (UIP)
OH POWER (UIP)
PP (UIP)
BURIED POWER (UIP)
SAN SEWER (UIP) SIGNAL POST (UIP)
BURIED TELE CABLE (TBR&RELOCBO)
SIGNAL POST & EQUIP. (UIP)
WATER LINE (UIP)
GAS LINE (UIP)
BUS STOP SIGN (TBRRBO)
WATER SERVICE LINE (TBR&RELOC)
5' CONCRETE SIDEWALK
OH POWER (UIP)
MH (ATG)

MATCHLINE STA. 268+00.00

PI STA 263+09.54
EXIST. SIDEWALK (UIP)
SAW CUT
SLOPE LIMITS
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
GREEN SPACE ESM'T.
TREE (DND)
FENCE (TBR&RELOC) & BRUSH (TBR)
TREES (DND)
EXIST. R/W
GAS LINE (UIP)
6" CONCRETE CURB & GUTTER, TYPE B
EXIST. SIDEWALK (R)
SLOPE LIMITS
TEMP. ESM'T. (CONST.)
10' SEWER ESM'T.
EDGE OF PARKING LOT
MATCH EXIST. SIDEWALK
CONCRETE CURB, TYPE S; MATCH EXIST. INLET
POT STA 314+00.00
24'
12'
12'
2'
LANDSCAPING (DND)
BUSINESS SIGN & LANDSCAPING (DND)
WATER SERVICE LINE (UIP)
GAS SERVICE LINE (UIP)
SLOPE LIMITS
6" CONCRETE CURB & GUTTER, TYPE B
8' X 13' BUS PAD
EXIST. SIDEWALK (R)
TEMP. ESM'T. (CONST.)
EXIST. R/W
10' SEWER ESM'T.
MATCH EXIST. SIDEWALK
PI STA 315+06.81 (SYLVAN PL)
= STA 265+91.50 (ROUTE 100)

(256) SEE PLAN SHEET 5

(263) EZ STORAGE KIRKWOOD, LLC

CROSS ACCESS ESM'T.
10' ESM'T. (CITY OF KIRKWOOD)

52' - TYPE F (ASPHALT PV'MT.)
(COMMERCIAL SIGNALIZED ENT.)
APPROACH @ -1.78%; TIE-IN @ -0.91%
STA. 265+84.69 RT. (ROUTE 100)
= STA. 315+00.00 (SYLVAN PL)

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL AT SLYVAN PLACE TO BE MODIFIED AS SHOWN; SEE SIGNAL PLAN SHEETS FOR DETAILS.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

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LEGEND
- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 50
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 47 OF 52

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261 WESTERN CONTINENTAL INVESTMENTS LLC

262 PENNINGTON/COGGAN HOLDINGS, LLC

266 LOUIS H. BOPP, INC.

267 LOUIS H. BOPP, INC.

264 EEB KIRK, LLC

265 ERIC W. KUHLMANN, TRUSTEE

274 WAYLAND LAND CO,

BERNICE AVENUE
28' - TYPE F (ASPHALT PV'MT.)
APPROACH @ 0.65%; TIE-IN @ -4.18%
STA. 268+26.96 LT. (ROUTE 100)
= STA. 320+00.00 (BERNICE AVE)
* NOTE: SIDEWALK @ -1.00%

CURRAN AVENUE
26' - TYPE F (ASPHALT PV'MT.)
APPROACH @ 6.16%; TIE-IN @ 2.58%
STA. 271+61.01 LT. (ROUTE 100)
= STA. 330+00.00 (CURRAN AVE)

22.5' - TYPE F (ASPHALT PV'MT.)
APPROACH @ -5.00%; TIE-IN @ -7.78%
STA. 330+54.55 LT. (CURRAN AVENUE)
* NOTE: SIDEWALK SLOPE @ -1.00%

23.3' - TYPE F (ASPHALT PV'MT.)
APPROACH @ 7.50%; TIE-IN @ 8.00%
STA. 330+54.95 RT. (CURRAN AVENUE

LYNCHESTER LANE
25' - TYPE E (ASPHALT PV'MT.)
APPROACH @ 0.84%; TIE-IN @ 3.07%
STA. 269+08.66 RT. (ROUTE 100)
= STA. 325+00.00 (LYNCHESTER LN.)

20' - TYPE B' (COMMERCIAL ENT.)
APPROACH @ 0.50%; TIE-IN @ 0.41%
ASPHALT ENT. - STA. 269+55.00 RT.
(PARKING LOT PV'MT. WARPING REQ'D.)

30' - TYPE B'' (COMMERCIAL ENT.)
APPROACH @ 1.00%; TIE-IN @ 2.07%
ASPHALT ENT. - STA. 270+40.50 RT.
(PARKING LOT PV'MT. WARPING REQ'D.)

28' - TYPE B (COMMERCIAL ENT.)
APPROACH @ 10.45%; TIE-IN @ 10.13%
ASPHALT ENT. - STA. 272+06.00 RT.

℄ ROUTE 100

S 0° 56' 27" W

S 88° 09' 12" W

S 41° 49" W

EXIST. R/W

EXIST. SIDEWALK (UIP)

EXIST. SIDE STREET (UIP)

SLOPE LIMITS

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

* NEW PED. LIGHT POLE

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T. (CONST.)

CONCRETE CURB, TYPE S

8'X12' BUS PAD

WALL (MSE) W/ PED FENCE

6" CONCRETE CURB & GUTTER, TYPE B

SAW CUT

REMOVE & REPLACE SIDEROAD PV'MT.

EDGE OF PV'MT.

EDGE OF PARKING LOT

MATCH EXIST. SIDEWALK

10' UTIL. ESM'T.

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTIL. & WALL)

REMOVE & REPLACE PARKING LOT PV'MT.

WALL (SMALL BLOCK) W/ HANDRAIL

5' CONCRETE SIDEWALK

CONCRETE CURB, TYPE S

LANDSCAPING (TBR)

SAW CUT

BURIED FO CABLE (MODOT) (TBRR)

BURIED CABLE (AT&T) (TBR&RELOCBO)

GAS LINE (TBR&RELOCBO)

GAS SERVICE LINE (UIP)

WATER LINE (UIP)

WATER SERVICE LINE (UIP)

WV (ATG)

WM (ATG)

WALL (MODIFIED CURB)

EXIST. R/W

PERM. ESM'T. (SIDEWALK, UTILITY & WALL)

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

BUSINESS SIGN & LANDSCAPING (DND)

BLDG FACE

LP (DND)

FLAG POLE & LP (DND)

MULCH (TBR) & LANDSCAPING (DND) (TYP)

EXIST.SIDEWALK (R)

WV & WM (UIP)

BLDG FACE LANDSCAPING & WALL (DND)

10' SEWER ESM'T.

12' ROADWAY ESM'T.

6' SIDEWALK ESM'T.

20' INGRESS/ EGRESS ESM'T.

10' UTIL. ESM'T.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

* PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

NOTES:

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SCALE
0 20 40 60

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 51
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 48 OF 52

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\051_PN_48_J6S1718C_120.dgn 5:10:45 PM 3/13/2020

CURVE 25 – ROUTE 100	
PI	274+53.85
PC	273+49.58
PT	275+57.67
Δ	9° 19′ 37.9″ (LT)
D	4° 28′ 55.9″
L	208.09′
T	104.28′
R	1,278.30′

EXISTING IMPROVEMENTS:

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✳ PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

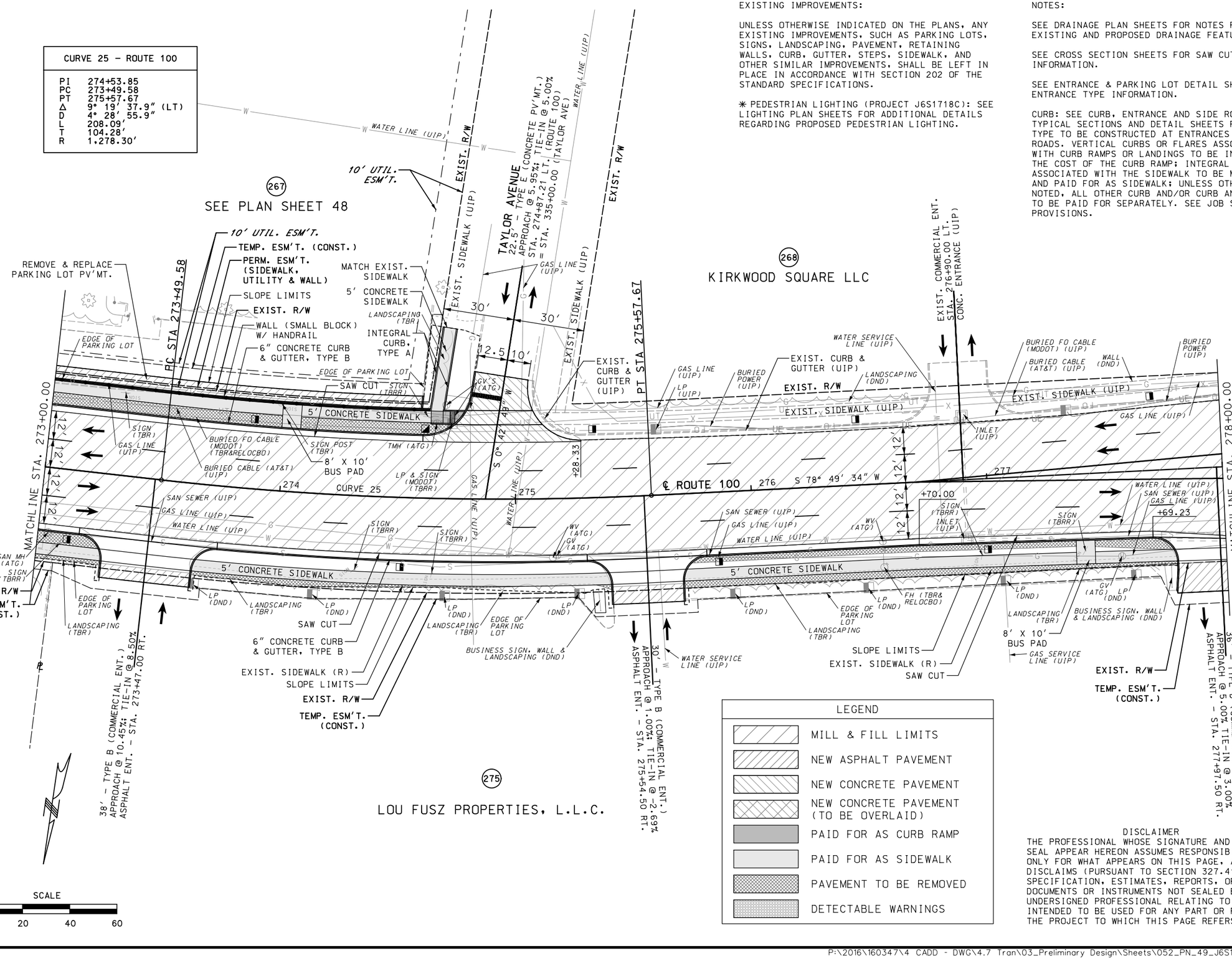
NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

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LEGEND	
	MILL & FILL LIMITS
	NEW ASPHALT PAVEMENT
	NEW CONCRETE PAVEMENT
	NEW CONCRETE PAVEMENT (TO BE OVERLAID)
	PAID FOR AS CURB RAMP
	PAID FOR AS SIDEWALK
	PAVEMENT TO BE REMOVED
	DETECTABLE WARNINGS

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 52
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PL-AN
ROUTE 100
SHEET 49 OF 52

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
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(270) MLSE II LLC

(271) THE ESTHER D. FIGUEROA TRUST

(272) HODGE ASSOCIATES LLC

(275) SEE PLAN SHEET 49

(276) LINCOLN INVESTMENT COMPANY

SCALE
0 20 40 60

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✳ PEDESTRIAN LIGHTING (PROJECT J6S1718C): SEE LIGHTING PLAN SHEETS FOR ADDITIONAL DETAILS REGARDING PROPOSED PEDESTRIAN LIGHTING.

NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING SIGNAL LAYOUT AT LINDBERGH BOULEVARD SHOWN FOR INFORMATION ONLY.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

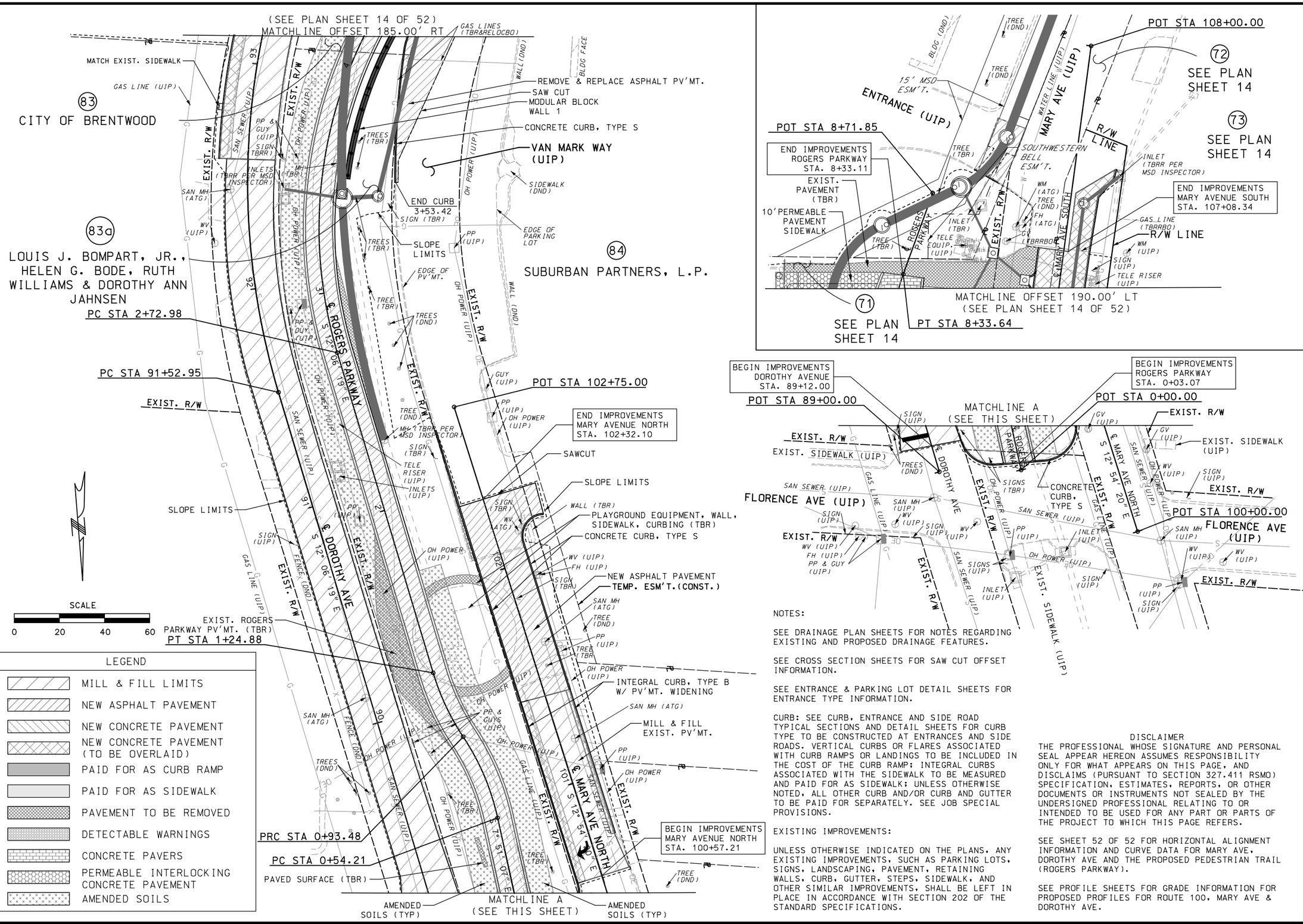
DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 53
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
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(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
ROUTE 100
SHEET 50 OF 52



NOTES:

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

SEE CROSS SECTION SHEETS FOR SAW CUT OFFSET INFORMATION.

SEE ENTRANCE & PARKING LOT DETAIL SHEETS FOR ENTRANCE TYPE INFORMATION.

CURB: SEE CURB, ENTRANCE AND SIDE ROAD TYPICAL SECTIONS AND DETAIL SHEETS FOR CURB TYPE TO BE CONSTRUCTED AT ENTRANCES AND SIDE ROADS. VERTICAL CURBS OR FLARES ASSOCIATED WITH CURB RAMPS OR LANDINGS TO BE INCLUDED IN THE COST OF THE CURB RAMP; INTEGRAL CURBS ASSOCIATED WITH THE SIDEWALK TO BE MEASURED AND PAID FOR AS SIDEWALK; UNLESS OTHERWISE NOTED, ALL OTHER CURB AND/OR CURB AND GUTTER TO BE PAID FOR SEPARATELY. SEE JOB SPECIAL PROVISIONS.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

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SEE SHEET 52 OF 52 FOR HORIZONTAL ALIGNMENT INFORMATION AND CURVE DATA FOR MARY AVE, DOROTHY AVE AND THE PROPOSED PEDESTRIAN TRAIL (ROGERS PARKWAY).

SEE PROFILE SHEETS FOR GRADE INFORMATION FOR PROPOSED PROFILES FOR ROUTE 100, MARY AVE & DOROTHY AVE.

DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 54
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PLAN
ROUTE 100
SHEET 51 OF 52

REV.

CURVE 1 – ROGERS PARKWAY	
PI	0+74.07
PC	0+54.21
PRC	0+93.48
Δ	21° 13′ 28.6″ (LT)
D	54° 03′ 09.4″
L	39.27′
T	19.86′
R	106.00′

CURVE 2 – ROGERS PARKWAY	
PI	1+09.29
PRC	0+93.48
PT	1+24.88
Δ	16° 58′ 17.0″ (RT)
D	54° 03′ 09.4″
L	31.40′
T	15.81′
R	106.00′

CURVE 3 – ROGERS PARKWAY	
PI	3+95.14
PC	2+72.98
PRC	4+90.57
Δ	64° 55′ 57.3″ (RT)
D	29° 50′ 29.6″
L	217.59′
T	122.16′
R	192.00′

CURVE 4 – ROGERS PARKWAY	
PI	5+42.91
PRC	4+90.57
PT	5+91.29
Δ	38° 28′ 19.5″ (LT)
D	38° 11′ 49.9″
L	100.72′
T	52.34′
R	150.00′

CURVE 5 – ROGERS PARKWAY	
PI	7+25.51
PC	6+74.72
PRC	7+72.89
Δ	36° 16′ 27.7″ (LT)
D	36° 57′ 02.9″
L	98.17′
T	50.79′
R	155.06′

CURVE 6 – ROGERS PARKWAY	
PI	8+05.04
PRC	7+72.89
PT	8+33.64
Δ	46° 24′ 27.9″ (RT)
D	76° 23′ 39.7″
L	60.75′
T	32.15′
R	75.00′

CURVE 1 – DOROTHY AVE.	
PI	92+37.37
PC	91+52.95
PT	93+18.14
Δ	29° 07′ 14.5″ (RT)
D	17° 37′ 46.1″
L	165.18′
T	84.42′
R	325.00′

CURVE 2 – DOROTHY AVE.	
PI	94+25.39
PC	94+00.20
PT	94+50.41
Δ	11° 30′ 26.0″ (LT)
D	22° 55′ 05.9″
L	50.21′
T	25.19′
R	250.00′

NOTES:

SEE PLAN SHEETS 14 AND 51 OF 52 FOR ADDITIONAL INFORMATION REGARDING REMOVALS, PROPOSED WORK AND UTILITIES.

SEE DRAINAGE PLAN SHEETS FOR NOTES REGARDING EXISTING AND PROPOSED DRAINAGE FEATURES.

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS
- CONCRETE PAVERS PERMEABLE INTERLOCKING CONCRETE PAVEMENT
- AMENDED SOILS

RUTH AVENUE

STA. 62+70.00 (ROUTE 100)
BEGIN FULL-DEPTH
PAVEMENT REPLACEMENT

BOMPART AVENUE

FLORENCE AVE

POT STA 89+00.00

POT STA 100+00.00

PC STA 0+54.21

PRC STA 0+93.48

PT STA 1+24.88

PC STA 2+72.98

PC STA 91+52.95

EXIST. R/W

DOROTHY AVENUE

S 12° 06′ 19″ E

EXIST. R/W

℄ MARY AVE NORTH

S 12° 54′ 20″ E

EXIST. R/W

S 77° 51′ 07″ E

℄ DOROTHY AVE

PT STA 93+18.14

EXIST. DOROTHY AVE PAVEMENT (TBR)

PC STA 94+00.20

PT STA 94+50.41

S 17° 00′ 56″ W

S 5° 30′ 30″ W

VAN MARK WAY

MODULAR BLOCK WALL 1

℄ ROGERS PARKWAY

EXIST. VAN MARK WAY PAVEMENT (TBR)

PRC STA 4+90.57

POT STA 102+75.00

12″ WIDE CONC. EDGING (TYP.)

TEMP. ESM'T. (CONST.)

PLAYGROUND EQUIPMENT (TBRBO)

SIDEWALK, WALL, MULCH (TBR)

RAISED LANDSCAPED MEDIAN (SEE LANDSCAPE PLANS FOR DETAILS)

MODULAR BLOCK WALL 2

EXIST. DECK (TBR)

CONCRETE PAVER PLAZA AREA

MODULAR BLOCK WALL 3

PT STA 5+91.29

PROPOSED PEDESTRIAN UNDERPASS
ROGERS PARKWAY STA. 6+32.24=
ROUTE 100 STA. 66+00.00

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

TEMP. ESM'T. (CONST.)

SLOPE LIMITS

℄ ROUTE 100

N 85° 38′ 54″ W

STA. 69+18.24 (ROUTE 100)
END FULL-DEPTH
PAVEMENT REPLACEMENT

PC STA 63+95.91

DOROTHY AVE STA 95+00.00=
ROUTE 100 STA 64+81.24

10′ CONCRETE SIDEWALK

RAISED LANDSCAPED MEDIAN (SEE LANDSCAPE PLANS FOR DETAILS)

MODULAR BLOCK WALL 5

MODULAR BLOCK WALL 6

MODULAR BLOCK WALL 4

PC STA 6+74.72

PRC STA 7+72.89

10′ PERMEABLE PAVEMENT SIDEWALK

PT STA 8+33.64

POT STA 8+71.85

CONCRETE TRAFFIC BARRIER, TYPE E

GUARDRAIL

EXIST. R/W

S 24° 29′ 58″ W

S 22° 09′ 03″ W

℄ MARY AVE SOUTH

R/W LINE

MARY AVE STA 105+00.00 =
ROUTE 100 STA 66+33.52

EXIST. MARY AVENUE PAVEMENT (TBR)

POT STA 108+00.00

SLOPE LIMITS

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T. (CONST.)

PI STA 69+37.51

BUILDING (DND)

BUILDING (TBR)

BUILDING (TBRBO)

68	T and C Properties, LLC
69	PIZZAZZ COMMERCIAL LLC
70	Idowu Ajibola
71	Mary Avenue & Company LLC
72	MARY AVENUE (PRIVATE ROAD–25′ WIDE)
73	Morice Enterprises, LLC,
79	Manchester Road Properties, LLC
80	Norman J. Knight
81	8615 Manchester, LLC
82	City of Brentwood
83	City of Brentwood
83A	LOUS J. BOMPART JR, HELEN G. BODE, RUTH WILLAMS AND DOROTHY ANN JAHNSEN
84	Suburban Partners, L.P.

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SCALE
0 40 80 120

DATE PREPARED
3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

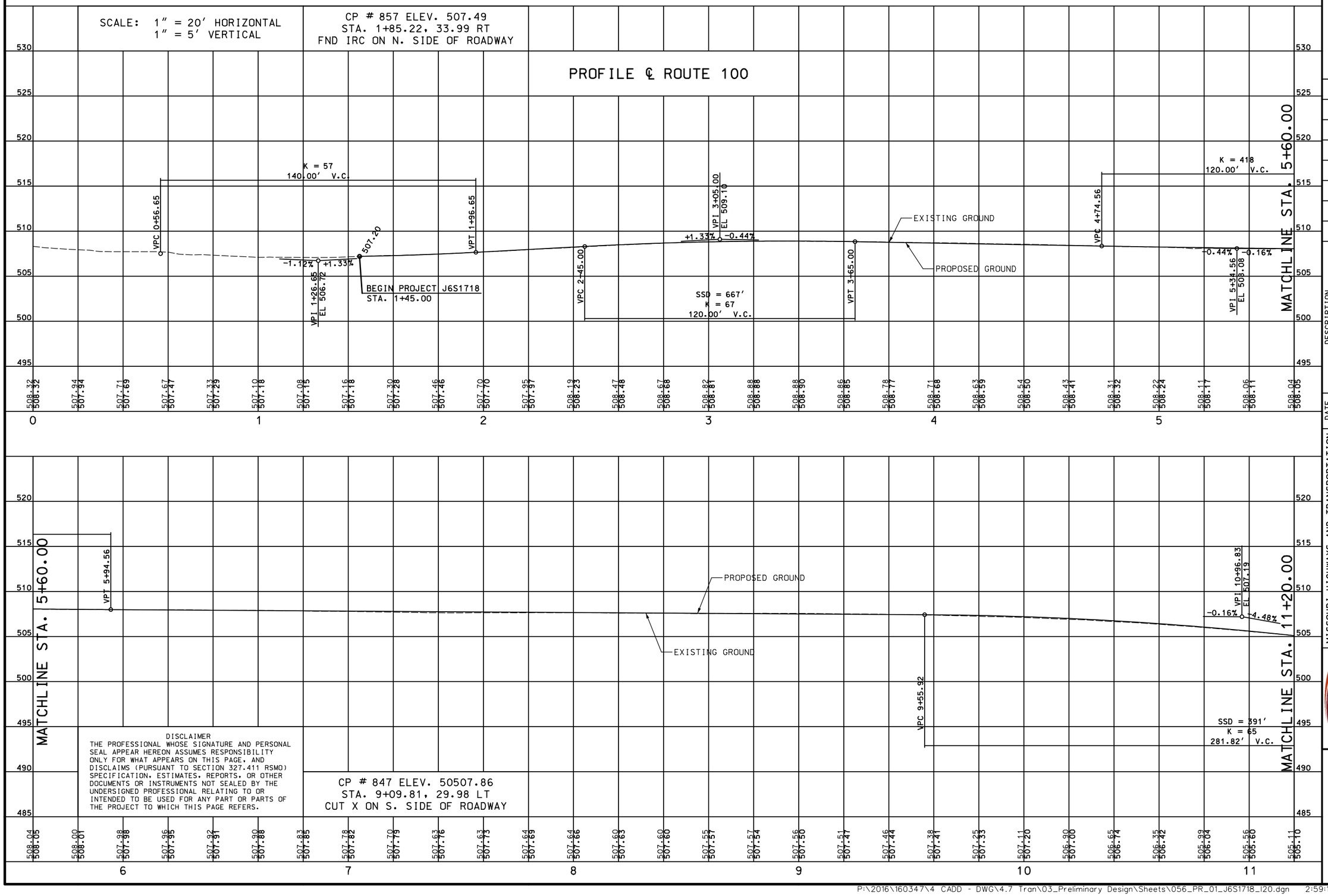
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MISSOURI CERT. OF AUTHORITY: 001528

PLAN
MARY/DOROTHY AVENUES & ROGERS PARKWAY
SHEET 52 OF 52

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

CP # 857 ELEV. 507.49
STA. 1+85.22, 33.99 RT
FND IRC ON N. SIDE OF ROADWAY

PROFILE ℄ ROUTE 100



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CP # 847 ELEV. 50507.86
STA. 9+09.81, 29.98 LT
CUT X ON S. SIDE OF ROADWAY

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MISSOURI CERT. OF AUTHORITY: 001538

PROFILE
ROUTE 100
SHEET 1 OF 27

REV.

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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

CP # 846 ELEV. 497.60
STA. 13+00.29, 28.77 LT
PK ON S. SIDE OF ROADWAY

PROFILE ℄ ROUTE 100

MATCHLINE STA. 11+20.00

MATCHLINE STA. 16+80.00

VFT 12+37.73

VPC 13+50.00

K = 342
100.00' V.C.

VPT 14+50.00

-4.48%

-4.19%

VPI 14+00.00
EL 493.62

PROPOSED GROUND

EXISTING GROUND

VPI 16+00.00
EL 485.25

-4.19%

-4.96%

VPC 15+00.00

SSD = 1492'
K = 258
200.00' V.C.

505 500 495 490 485 480 475 470

505.10 504.56 504.03 503.93 503.91 503.21 503.22 502.47 502.47 501.66 501.86 500.78 500.79 499.93 499.92 499.04 499.04 498.13 498.17 497.20 497.30 496.29 496.42 495.41 495.55 494.49 494.67 493.63 493.80 492.71 492.92 491.86 492.05 491.01 491.17 490.18 490.30 489.08 489.42 488.32 488.55 487.70 487.67 486.84 486.80 485.94 485.91 485.08 484.95 484.15 483.99 482.56 483.03 482.56 482.07 481.28 481.11

12 13 14 15 16

MATCHLINE STA. 16+80.00

MATCHLINE STA. 22+40.00

VPT 17+00.00

VPC 18+00.00

K = 796
200.00' V.C.

VPT 20+00.00

-4.96%

-4.71%

VPI 19+00.00
EL 470.37

EXISTING GROUND

PROPOSED GROUND

VPC 20+94.46

K = 85
250.00' V.C.

Station Equation:
Sta 21+05.40 BK =
Sta 21+04.55 AH

-4.71%

-1.71%

VPI 22+18.61
EL 455.33

480 475 470 465 460 455 450 445

481.29 481.11 480.09 480.15 479.33 479.19 478.35 478.23 477.33 477.26 476.32 476.30 475.35 475.34 474.36 474.38 473.39 473.42 472.41 472.46 471.40 471.50 470.46 470.54 469.50 469.58 468.55 468.62 467.62 467.66 466.68 466.70 465.73 465.74 464.81 464.78 463.87 463.82 462.84 462.86 461.96 461.90 461.01 460.95 460.06 460.01 459.19 459.16 458.31 458.35 457.51 457.59 456.82 456.87 456.21 456.21 455.62 455.59

17 18 19 20 21 22

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DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	57

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PROFILE
ROUTE 100
SHEET 2 OF 27

REV.

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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 22+40.00

VPT 23+43.61

PROPOSED GROUND

EXISTING GROUND

VPC 26+28.00

MATCHLINE STA. 28+00.00

470 465 460 455 450 445 440 435

455.62 455.59 | 455.05 455.01 | 454.46 454.48 | 453.93 454.00 | 453.47 453.57 | 453.02 453.18 | 452.64 452.83 | 452.32 452.47 | 452.00 452.12 | 451.64 451.77 | 451.30 451.41 | 450.82 451.06 | 450.60 450.71 | 450.28 450.35 | 449.91 450.00 | 449.47 449.65 | 449.09 449.29 | 448.76 448.94 | 448.43 448.58 | 448.15 448.23 | 447.90 447.88 | 447.63 447.56 | 447.31 447.26 | 446.98 446.88 | 446.73 446.73 | 446.50 446.51 | 446.31 446.31 | 446.21 446.13 | 446.18 445.98

23 24 25 26 27 28

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CP # 841 ELEV. 445.56
STA. 33+60.27, 36.46 RT
CUT X ON N. SIDE OF ROADWAY

MATCHLINE STA. 28+00.00

K = 158
500.00' V.C.

-1.77% +1.40%

VPI 28+78.00
EL 448.67

PROPOSED GROUND

EXISTING GROUND

VPT 31+30.12

Station Equation:
Sta 30+96.88 BK =
Sta 30+99.00 AH

REMOVE AND REPLACE EXIST. BRIDGE # G0681
PROPOSED BRIDGE # A8717

BK. E. ABUT (EXIST.)
STA. 31+80.00

VPC 31+68.30

VPI 32+25.80
EL 448.51

℄ BLACK CREEK
STA. 32+33.60
(ROUTE 100)

+1.40% -2.08%

BK. W. ABUT (EXIST.)
STA. 32+90.00

VPT 32+83.30

EXIST. BRIDGE
ARCH OPENING

SSD = 367'
K = 33
115.00' V.C.

APPROX. EXIST. GROUND
(AVG. UPSTREAM &
DOWNSTREAM, 75'FROM ℄)

EXISTING GROUND

APPROX. EXIST. GROUND
(AVG. UPSTREAM &
DOWNSTREAM, 75'FROM ℄)

-2.08% -1.87%

VPI 33+36.32
EL 446.21

BEGIN PROJECT J6S1718B
CONTINUE PROJECT J6S1718
STA. 32+80.35

MATCHLINE STA. 33+60.00

465 460 455 450 445 440 435 430

446.19 445.99 | 446.12 445.86 | 445.88 445.77 | 445.67 445.69 | 445.51 445.65 | 445.44 445.62 | 445.45 445.63 | 445.46 445.66 | 445.52 445.71 | 445.59 445.79 | 445.89 445.90 | 445.92 446.03 | 446.19 446.18 | 446.37 446.36 | 446.61 446.57 | 446.84 446.78 | 447.11 447.03 | 447.43 447.31 | 447.73 447.59 | 447.78 447.85 | 448.07 448.00 | 448.24 448.02 | 448.14 447.93 | 447.81 447.72 | 447.45 447.38 | 446.98 446.97 | 446.51 446.55 | 446.14 446.14 | 445.78 445.77

28 29 30 31 32 33

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PROFILE
ROUTE 100
SHEET 3 OF 27

REV.

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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 33+60.00

MATCHLINE STA. 39+20.00

K = 57
200.00' V.C.

VPC 33+76.00

VPT 35+76.00

EXISTING GROUND

PROPOSED GROUND

-1.87% +1.65%

VPI 34+76.00
EL 443.60

Station Equation:
Sta 36+81.86 BK =
Sta 36+80.40 AH

VPI 37+50.93
EL 448.15

+1.65% +0.66%

VPC 36+52.39

SSD = 1196'
K = 203
200.00' V.C.

VPT 38+50.93

470	465	460	455	450	445	440	435
445.78	445.41	445.08	444.80	444.62	444.56	444.53	444.52
445.77	445.40	445.07	444.82	444.63	444.52	444.48	444.50
444.60	444.73	445.04	445.43	445.67	446.00	446.32	446.65
444.60	444.77	445.01	445.31	445.64	445.97	446.30	446.63
446.95	447.23	447.50	447.76	447.99	448.20	448.36	448.52
446.94	447.25	447.52	447.77	448.01	448.22	448.41	448.58
448.68	448.83	448.99	449.14	449.26			
448.74	448.87	449.00	449.14	449.27			
34	35	36	37	38	39		

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CP # 839 ELEV. 450.72
STA. 40+40.22, 36.53 LT
IRC ON S. SIDE OF ROADWAY

MATCHLINE STA. 39+20.00

MATCHLINE STA. 44+80.00

EXISTING GROUND

PROPOSED GROUND

VPI 42+65.67
EL 451.55

+0.66% +0.54%

VPC 42+15.67

SSD = 9014'
K = 831
100.00' V.C.

VPT 43+15.67

470	465	460	455	450	445	440	435
449.26	449.36	449.48	449.59	449.76	449.93	450.08	450.22
449.27	449.40	449.53	449.67	449.80	449.93	450.06	450.19
450.36	450.50	450.64	450.76	450.88	450.99	451.02	451.21
450.33	450.46	450.59	450.72	450.86	450.99	451.12	451.25
451.35	451.51	451.65	451.77	451.88	452.01	452.12	452.20
451.38	451.51	451.62	451.74	451.85	451.96	452.07	452.17
452.30	452.41	452.50	452.58	452.66			
452.28	452.39	452.50	452.61	452.71			
40	41	42	43	44			

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION	REV.
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PROFILE
ROUTE 100
SHEET 4 OF 27

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\059_PR_04_J6S1718B_I20.dgn 2:59:15 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

CP # 837 ELEV. 457.46
STA. 49+90.62, 33.45 LT
PK ON S. SIDE OF ROADWAY

PROFILE ℄ ROUTE 100

MATCHLINE STA. 44+80.00

MATCHLINE STA. 50+40.00

VPC 46+76.00

K = 88
120.00' V.C.

VPT 47+96.00

VPI 47+36.00
EL 454.10

+0.54%

+1.91%

PROPOSED GROUND

EXISTING GROUND

VPC 48+76.00

SSD = 433'
K = 64
210.00' V.C.

VPI 49+81.00
EL 458.77

+1.91%

-1.38%

MATCHLINE STA. 50+40.00

MATCHLINE STA. 56+00.00

EXISTING GROUND

PROPOSED GROUND

VPT 50+86.00

Station Equation:
Sta 52+21.83 BK =
Sta 52+23.24 AH

VPC 53+14.42

VPI 53+64.42
EL 453.49

-1.38%

-1.93%

SSD = 2011'
K = 182
100.00' V.C.

VPT 54+14.42

-1.93%

VPI 55+31.10
EL 450.27

-1.98%

VPC 55+49.00

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DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION	REV.
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PROFILE
ROUTE 100
SHEET 5 OF 27

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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

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MATCHLINE STA. 56+00.00

K = 152
272.00' V.C.

-1.98% -0.19%

VPI 56+85.00
EL 447.22

VPT 58+21.00

PROPOSED GROUND

EXISTING GROUND

MATCHLINE STA. 61+60.00

CP # 835 ELEV. 446.18
STA. 63+55.85, 32.92 RT
PK ON N. SIDE OF ROADWAY

MATCHLINE STA. 61+60.00

K = 97
90.00' V.C.

VPC 62+25.00

VPC 63+17.50

VPT 63+15.00

K = 63
175.00' V.C.

VPT 64+92.50

STA. 66+00.00 (ROUTE 100)
(=STA. 6+32.24 ROGERS PARKWAY)

VPI 66+50.36
EL 455.73

+3.53% +1.75%

VPC 66+93.24

VPC 66+10.36

VPT 66+90.36

SSD = 647'
K = 45
80.00' V.C.

-0.19% +0.73%

BEGIN FULL DEPTH PAVEMENT
STA. 62+70.00

VPI 62+70.00
EL 446.08

+0.73% +3.53%

VPI 64+05.00
EL 447.07

PROPOSED GROUND

EXISTING GROUND

PROPOSED PEDESTRIAN UNDERPASS

MATCHLINE STA. 67+20.00

DATE PREPARED	3/15/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	61
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REV.

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PROFILE
ROUTE 100
SHEET 6 OF 27

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\061_PR_06_J6S1718B_I20.dgn 2:59:16 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

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MATCHLINE STA. 67+20.00

K = 66
225.00' V.C.

PROPOSED GROUND

EXISTING GROUND

VPI 68+05.74
EL 458.45
+1.75%
+5.18%

VPT 69+18.24

END FULL DEPTH PAVEMENT
STA. 69+18.24

VPI 70+25.03
EL 469.82
+5.18%
+5.44%

VPC 71+80.03

+5.44%

MATCHLINE STA. 72+80.00

68	69	70	71	72

CP # 833 ELEV. 488.14
STA. 75+92.28, 47.63 RT
IRC ON N. SIDE OF ROADWAY

MATCHLINE STA. 72+80.00

VPI 72+80.03
EL 483.70
+2.53%

SSD = 471'
K = 69
200.00' V.C.

VPT 73+80.03

VPC 73+82.00

VPI 75+00.00
EL 489.27
+2.53%
-1.74%

SSD = 370'
K = 55
236.00' V.C.

PROPOSED GROUND

EXISTING GROUND

VPT 76+18.00

K = 25
68.00' V.C.

VPC 77+05.75

VPI 77+39.75
EL 485.09
-1.74%
+0.95%

VPT 77+73.75

VPC 77+91.50

MATCHLINE STA. 78+40.00

73	74	75	76	77	78

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION	REV.
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PROFILE
ROUTE 100
SHEET 7 OF 27

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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

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MATCHLINE STA. 78+40.00

VPI 79+30.00
EL 486.90
+0.95%
-3.60%

SSD = 376'
K = 61
277.00' V.C.

VPT 80+68.50

VPC 80+85.51

EXISTING GROUND

PROPOSED GROUND

K = 43
290.00' V.C.

-3.60%
+3.22%

VPI 82+30.50
EL 476.05

VPT 83+75.51

MATCHLINE STA. 84+00.00

CP # 831 ELEV. 496.48
STA. 122+53.76, 33.16 RT
PK ON N. SIDE OF ROADWAY

MATCHLINE STA. 84+00.00

Station Equation:
Sta 84+29.17 BK =
Sta 118+09.65 AH

VPC 118+97.50

VPI 119+50.00
EL 487.00
+3.22%
+2.16%

SSD = 1072'
K = 99
105.00' V.C.

VPT 120+02.50

VPC 120+10.00

K = 71
130.00' V.C.

VPI 120+75.00
EL 489.70
+2.16%
+4.00%

VPT 121+40.00

VPC 121+60.00

PROPOSED GROUND

EXISTING GROUND

MATCHLINE STA. 123+40.00

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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PROFILE
ROUTE 100
SHEET 8 OF 27

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\063_PR_08_J6S1718B_I20.dgn 2:59:17 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

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MATCHLINE STA. 123+40.00

VPI 123+65.00
EL 501.30
+4.00% -2.51%

PROPOSED GROUND
EXISTING GROUND

SSD = 369'
K = 63
410.00' V.C.

VPT 125+70.00

VPC 126+30.06

K = 207
175.00' V.C.

-2.51% -1.66%

VPI 127+17.56
EL 492.46

VPT 128+05.06

VPC 128+17.37

MATCHLINE STA. 129+00.00

MATCHLINE STA. 129+00.00

VPI 129+47.37
EL 488.65
-1.66% -5.31%

SSD = 425'
K = 71
260.00' V.C.

VPT 130+77.37

END PROJECT J6S1718B
CONTINUE PROJECT J6S1718
STA. 131+60.90

PROPOSED GROUND

EXISTING GROUND

VPC 133+75.40

MATCHLINE STA. 134+60.00

CP # 829 ELEV. 476.60
STA. 131+70.34, 26.19 RT
PK ON N. SIDE OF ROADWAY

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	64

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION	REV.
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PROFILE
ROUTE 100
SHEET 9 OF 27

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\064_PR_09_J6S1718B_I20.dgn 2:59:18 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

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MATCHLINE STA. 134+60.00

K = 60
325.00' V.C.

-5.31%
+0.11%
VPI 135+37.90
EL 457.26

VPT 137+00.40

PROPOSED GROUND
EXISTING GROUND

+0.11%
+0.29%
VPI 138+39.38
EL 457.60

VPC 139+99.61

MATCHLINE STA. 140+20.00

CP # 827 ELEV. 465.58
STA. 144+45.76, 31.01 RT
CUT X ON N. SIDE OF ROADWAY

MATCHLINE STA. 140+20.00

K = 66
170.00' V.C.

+0.29%
+2.88%
VPI 140+84.61
EL 458.30

VPC 141+70.74

VPT 141+69.61

+2.88%
+1.48%
VPI 142+10.74
EL 461.93

BK. E. ABUT (EXIST.)
STA. 142+29.50

REHAB EXIST. BRIDGE # A4844

SSD = 814'
K = 57
80.00' V.C.

VPT 142+50.74

EXIST. BRIDGE DECK (UIP)

BK. W. ABUT (EXIST.)
STA. 143+64.25

VPC 143+73.00

PROPOSED GROUND
EXISTING GROUND

K = 85
300.00' V.C.

+1.93%
+5.47%
VPI 145+23.00
EL 467.60

MATCHLINE STA. 145+80.00

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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PROFILE
ROUTE 100
SHEET 10 OF 27

REV.

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PROFILE ℄ ROUTE 100

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

MATCHLINE STA. 145+80.00

MATCHLINE STA. 151+40.00

PROPOSED GROUND

EXISTING GROUND

VPT 146+73.00

VPI 146+74.74
EL 475.90

+5.47%

+4.89%

VPI 149+64.31
EL 490.05

+4.89%

+5.42%

VPI 150+69.51
EL 495.75

+5.42%

+4.98%

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CP # 824 ELEV. 510.98
STA. 154+50.88, 39.67 LT
CUT X ON ISLAND S.W. CORNER
OF ROCKHILL RD.

MATCHLINE STA. 151+40.00

MATCHLINE STA. 157+00.00

VPC 152+35.72

SSD = 408'
K = 57
200.00' V.C.

VPI 153+35.72
EL 509.00

VPC 154+43.00

VPT 154+35.72

EXISTING GROUND

PROPOSED GROUND

+4.98%

+1.48%

K = 180
300.00' V.C.

VPI 155+93.00
EL 512.80

+1.48%

+3.15%

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	66

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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PROFILE
ROUTE 100
SHEET 1:1 OF 27

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\066_PR_11_J6S1718_120.dgn 2:59:19 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 157+00.00

MATCHLINE STA. 162+60.00

MATCHLINE STA. 162+60.00

MATCHLINE STA. 168+20.00

PROPOSED GROUND

EXISTING GROUND

VPT 157+43.00

VPI 159+08.69
EL 522.73

+3.15%

+3.29%

VPI 162+06.78
EL 532.53

+3.28%

+3.28%

VPI 167+15.00
EL 549.18

+3.28%

-0.74%

VPC 165+67.50

SSD = 416'
K = 73
295.00' V.C.

CP # 822 ELEV. 534.80
STA. 162+75.52, 42.72 LT
IRC ON S. SIDE OF ROADWAY

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DATE PREPARED	3/15/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	67
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REV.

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PROFILE
ROUTE 100
SHEET 12 OF 27

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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 168+20.00

MATCHLINE STA. 173+80.00

PROPOSED GROUND

EXISTING GROUND

VPT 168+62.50

VPC 169+73.66

K = 164
180.00' V.C.

VPI 170+63.66
EL 546.60

-0.74%

+0.36%

VPT 171+53.66

VPC 173+25.00

169	170	171	172	173
548.25 548.28	548.20 548.22	548.08 548.11	547.94 547.96	547.81 547.81
547.65 547.66	547.49 547.52	547.33 547.37	547.17 547.22	547.05 547.09
546.95 546.99	546.88 546.91	546.80 546.85	546.78 546.82	546.77 546.82
546.74 546.84	546.76 546.88	546.83 546.94	546.93 547.01	547.04 547.09
547.11 547.16	547.18 547.23	547.28 547.30	547.38 547.37	547.42 547.44
547.47 547.51	547.57 547.59	547.70 547.70	547.82 547.83	

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CP # 820 ELEV. 552.05
STA. 176+30.30, 28.47 RT
PK ON N. SIDE OF ROADWAY

MATCHLINE STA. 173+80.00

K = 140
320.00' V.C.

+0.36%

+2.63%

VPI 174+85.00
EL 548.10

VPT 176+45.00

PROPOSED GROUND

EXISTING GROUND

MATCHLINE STA. 179+40.00

174	175	176	177	178	179
547.82 547.83	547.96 548.00	548.12 548.19	548.34 548.41	548.61 548.66	548.91 548.94
549.25 549.24	549.62 549.58	550.01 549.94	550.40 550.33	550.82 550.75	551.27 551.20
551.75 551.68	552.23 552.19	552.72 552.71	553.19 553.24	553.66 553.77	554.15 554.29
554.69 554.82	555.23 555.35	555.75 555.87	556.29 556.40	556.85 556.93	557.41 557.45
557.94 557.98	558.48 558.51	559.01 559.04	559.56 559.56	560.08 560.09	

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION	REV.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MISSOURI CERT. OF AUTHORITY: 001538

PROFILE
ROUTE 100
SHEET 13 OF 27

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\068_PR_13_J6S1718_I20.dgn 2:59:20 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

CP # 819 ELEV. 564.17
STA. 183+51.95, 30.74 LT
PK ON S. SIDE OF ROADWAY

PROFILE ℄ ROUTE 100

MATCHLINE STA. 179+40.00

VPC 180+17.00

VPI 181+79.50
EL 566.40

+2.63% -1.11%

SSD = 420'
K = 71
265.00' V.C.

PROPOSED GROUND

EXISTING GROUND

VPT 183+12.00

VPC 184+04.39

MATCHLINE STA. 185+00.00

MATCHLINE STA. 185+00.00

K = 110
341.00' V.C.

VPI 185+74.89
EL 562.00

-1.11% +1.98%

VPT 187+45.39

VPI 187+87.11
EL 566.19

+1.98% +1.81%

EXISTING GROUND

PROPOSED GROUND

MATCHLINE STA. 190+60.00

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DATE PREPARED	3/15/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	69
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REV.

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PROFILE
ROUTE 100
SHEET 14 OF 27

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 190+60.00

MATCHLINE STA. 196+20.00

PROPOSED GROUND

EXISTING GROUND

+1.81% +1.99%

VPI 190+99.40
EL 571.83

+1.99% +1.87%

VPI 193+26.91
EL 576.36

VPC 194+52.00

600 595 590 585 580 575 570 565

571.12 571.47 571.48 571.85 571.84 572.21 572.24 572.60 572.64 573.01 573.04 573.40 573.43 573.80 573.85 574.20 574.23 574.60 574.63 575.01 575.02 575.42 575.42 575.84 575.82 576.23 576.22 576.57 576.60 576.95 576.97 577.28 577.35 577.67 577.72 578.07 578.10 578.45 578.47 578.76 578.84 579.06 579.20 579.42 579.54 579.74 579.86 580.16 580.17 580.90 580.46 581.15 580.13 581.43 580.98 581.65 581.22

191 192 193 194 195 196

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CP # 816 ELEV. 581.32
STA. 201+12.75, 25.25 LT
PK ON S. SIDE OF ROADWAY

MATCHLINE STA. 196+20.00

MATCHLINE STA. 201+60.00

VPI 198+32.00
EL 585.80

+1.87% -1.47%

EXISTING GROUND

PROPOSED GROUND

Station Equation:
Sta 201+10.00 BK =
Sta 201+00.00 AH

SSD = 701'
K = 228
760.00' V.C.

600 595 590 585 580 575 570 565

581.65 581.22 581.86 581.43 582.01 581.63 582.19 581.82 582.37 581.98 582.27 582.13 582.13 582.26 582.25 582.37 582.42 582.46 583.08 582.54 583.15 582.60 583.16 582.64 583.18 582.67 582.76 582.67 582.67 582.66 582.65 582.63 582.62 582.59 582.54 582.52 582.45 582.44 582.32 582.34 582.19 582.23 582.08 582.09 581.93 581.94 581.85 581.77 581.66 581.59 581.54 581.49 581.30 581.27 581.06 581.04 580.82 580.79

197 198 199 200 201 201 (AH)

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	70

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PROFILE
ROUTE 100
SHEET 15 OF 27

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\070_PR_15_J6S1718_I20.dgn 2:59:22 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

CP # 815 ELEV. 573.87
STA. 206+47.59, 32.34 RT
CUT X ON N. SIDE OF ROADWAY

PROFILE ℄ ROUTE 100

MATCHLINE STA. 201+60.00

MATCHLINE STA. 207+20.00

VPT 202+02.00

PROPOSED GROUND

EXISTING GROUND

600 595 590 585 580 575 570 565

580.82 580.79 | 580.54 580.53 | 580.23 580.24 | 579.91 579.95 | 579.61 579.66 | 579.31 579.36 | 579.01 579.07 | 578.71 578.77 | 578.44 578.48 | 578.16 578.19 | 577.89 577.89 | 577.58 577.60 | 577.28 577.30 | 576.98 577.01 | 576.67 576.72 | 576.35 576.42 | 576.04 576.13 | 575.75 575.83 | 575.47 575.54 | 575.19 575.25 | 574.92 574.95 | 574.66 574.66 | 574.38 574.37 | 574.08 574.07 | 573.78 573.78 | 573.49 573.48 | 573.19 573.19 | 572.91 572.90 | 572.62 572.60

202 203 204 205 206 207

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MATCHLINE STA. 207+20.00

MATCHLINE STA. 212+80.00

VPC 208+05.00

K = 73
350.00' V.C.

VPI 209+80.00
EL 568.78

-1.47% +3.30%

VPT 211+55.00

VPC 212+53.00

EXISTING GROUND

PROPOSED GROUND

590 585 580 575 570 565 560 555

572.62 572.60 | 572.31 572.31 | 571.99 572.01 | 571.69 571.72 | 571.39 571.43 | 571.14 571.15 | 570.90 570.92 | 570.70 570.75 | 570.58 570.63 | 570.54 570.57 | 570.53 570.56 | 570.56 570.61 | 570.68 570.71 | 570.80 570.87 | 570.98 571.08 | 571.22 571.34 | 571.51 571.66 | 572.14 572.03 | 572.14 572.46 | 572.97 572.94 | 573.58 573.48 | 574.23 574.07 | 574.83 574.71 | 575.41 575.37 | 576.06 576.03 | 576.73 576.69 | 577.36 577.35 | 577.98 578.01 | 578.57 578.60

208 209 210 211 212

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DATE	DESCRIPTION	REV.

DATE PREPARED 3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	71

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

PROFILE
ROUTE 100
SHEET 16 OF 27

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\071_PR_16_J6S1718_I20.dgn 2:59:22 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

CP # 813 ELEV. 576.68
STA. 216+80.09, 26.48 RT
PK ON N. SIDE OF ROADWAY

PROFILE ℄ ROUTE 100

MATCHLINE STA. 212+80.00

VPI 213+78.00
EL 581.90
+3.30%
-1.69%

SSD = 341'
K = 50
250.00' V.C.

VPI 215+03.00

EXISTING GROUND

PROPOSED GROUND

VPC 217+18.00

K = 96
120.00' V.C.

-1.69%
-0.44%

VPI 217+78.00
EL 575.12

VPT 218+38.00

MATCHLINE STA. 218+40.00

590	585	580	575	570	565	560	555
578.57	578.60	579.09	579.11	579.54	579.54	579.90	579.89
580.19	580.16	580.39	580.36	580.49	580.47	580.50	580.50
580.43	580.45	580.37	580.33	580.05	580.12	579.78	579.83
579.46	579.49	579.14	579.15	578.81	578.82	578.48	578.48
578.13	578.14	577.76	577.80	577.43	577.46	577.10	577.12
576.78	576.78	576.44	576.44	576.10	576.10	575.76	575.79
575.43	575.52	575.26	575.29	575.08	575.10	574.90	574.95
574.77	574.85						

213 214 215 216 217 218

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MATCHLINE STA. 218+40.00

VPI 220+35.67
EL 573.99

-0.44% -0.57%

PROPOSED GROUND

EXISTING GROUND

VPC 222+93.20

MATCHLINE STA. 224+00.00

590	585	580	575	570	565	560	555
574.77	574.85	574.69	574.76	574.61	574.67	574.54	574.58
574.49	574.50	574.43	574.41	574.35	574.32	574.24	574.23
574.13	574.18	574.06	574.06	573.99	573.97	573.86	573.85
573.75	573.74	573.59	573.63	573.44	573.51	573.32	573.40
573.18	573.29	573.06	573.17	572.95	573.06	572.86	572.95
572.74	572.83	572.69	572.82	572.61	572.61	572.52	572.49
572.36	572.34	572.15	572.13	571.84	571.86	571.51	571.53
571.55	571.14						

219 220 221 222 223 224

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	72

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION	REV.
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PROFILE
ROUTE 100
SHEET 17 OF 27

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\072_PR_17_J6S1718_I20.dgn 2:59:23 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 224+00.00

MATCHLINE STA. 229+60.00

MATCHLINE STA. 229+60.00

MATCHLINE STA. 235+20.00

VPI 224+20.97
EL 571.81

-0.57%
-4.28%

SSD = 418'
K = 69
255.54' V.C.

VPT 225+48.74

PROPOSED GROUND

EXISTING GROUND

VPI 227+14.36
EL 559.25

-4.28%
-4.42%

VPC 228+04.00

224	225	226	227	228	229
571.55	570.70	569.83	568.95	568.06	567.16
571.14	570.19	569.01	568.34	567.60	566.81

225	226	227	228	229
565.84	564.99	564.09	563.26	562.40
565.36	565.09	564.22	563.35	562.48

226	227	228	229
561.58	560.75	559.89	559.00
561.61	560.75	559.88	559.00

227	228	229
558.12	557.17	556.28
558.12	557.24	556.35

228	229
555.41	554.54
555.47	554.61

229	230	231	232	233	234	235
553.74	552.87	551.99	551.12	550.25	549.38	548.51
553.82	552.95	552.07	551.20	550.33	549.46	548.59

230	231	232	233	234	235
553.08	552.21	551.34	550.47	549.60	548.73
553.10	552.23	551.36	550.49	549.62	548.75

231	232	233	234	235
552.45	551.58	550.71	549.84	548.97
552.45	551.58	550.71	549.84	548.97

232	233	234	235
551.84	550.97	550.10	549.23
551.88	551.01	550.14	549.27

233	234	235
551.22	550.35	549.48
551.37	550.50	549.63

234	235
550.85	549.98
550.94	550.07

235
550.52
550.58

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CP # 810 ELEV. 552.40
STA. 233+12.31, 26.91 LT
PK ON S. SIDE OF ROADWAY

K = 56
320.00' V.C.

VPT 231+24.00

EXISTING GROUND

PROPOSED GROUND

-4.42%
+1.33%

VPI 229+64.00
EL 548.22

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	73

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PROFILE
ROUTE 100
SHEET 18 OF 27

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\073_PR_18_J6S1718_I20.dgn 2:59:23 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

CP # 809 ELEV. 565.77
STA. 240+85.12, 27.97 LT
PK ON S. SIDE OF ROADWAY

PROFILE ℄ ROUTE 100

MATCHLINE STA. 235+20.00

MATCHLINE STA. 240+80.00

BEGIN PROJECT J6S1718C
CONTINUE PROJECT J6S1718
STA. 236+63.86

VPC 238+05.00

K = 133
350.00' V.C.

+1.33% +3.96%

VPI 239+80.00
EL 561.70

PROPOSED GROUND

EXISTING GROUND

580 575 570 565 560 555 550 545

555.66 555.62 | 555.94 555.89 | 556.20 556.16 | 556.47 556.42 | 556.71 556.69 | 556.93 556.96 | 557.16 557.22 | 557.42 557.49 | 557.70 557.76 | 558.00 558.02 | 558.26 558.29 | 558.59 558.55 | 558.88 558.82 | 559.13 559.09 | 559.37 559.35 | 559.63 559.63 | 559.92 559.93 | 560.23 560.27 | 560.58 560.63 | 560.97 561.02 | 561.40 561.45 | 561.85 561.90 | 562.33 562.39 | 562.87 562.90 | 563.44 563.44 | 564.03 564.02 | 564.65 564.62 | 565.30 565.26 | 565.94 565.92

236 237 238 239 240

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MATCHLINE STA. 240+80.00

MATCHLINE STA. 246+40.00

VPT 241+55.00

VPC 245+04.81

PROPOSED GROUND

EXISTING GROUND

590 585 580 575 570 565 560 555

565.94 565.92 | 566.62 566.61 | 567.31 567.34 | 568.02 568.09 | 568.78 568.87 | 569.55 569.67 | 570.35 570.46 | 571.15 571.25 | 571.95 572.04 | 572.77 572.83 | 573.59 573.62 | 574.40 574.42 | 575.20 575.21 | 575.98 576.00 | 576.79 576.79 | 577.58 577.58 | 578.36 578.37 | 579.16 579.17 | 579.95 579.96 | 580.76 580.75 | 581.56 581.54 | 582.37 582.33 | 583.14 583.12 | 583.89 583.90 | 584.62 584.66 | 585.36 585.42 | 586.10 586.16 | 586.82 586.89 | 587.54 587.61

241 242 243 244 245 246

DATE	DESCRIPTION

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	7-4

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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PROFILE
ROUTE 100
SHEET 19 OF 27

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\074_PR_19_J6S1718C_I20.dgn 2:59:24 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 246+40.00

MATCHLINE STA. 252+00.00

MATCHLINE STA. 252+00.00

MATCHLINE STA. 257+60.00

PROPOSED GROUND

EXISTING GROUND

VPI 247+54.81
EL 592.42

+3.96% +2.49%

SSD = 937'
K = 341
500.00' V.C.

VPT 250+04.81

VPC 250+15.00

K = 141
200.00' V.C.

+2.49% +3.91%

VPI 251+15.00
EL 601.40

VPT 252+15.00

VPC 257+47.40

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CP # 807 ELEV. 612.70
STA. 254+09.54, 68.47 RT
IRC ON N. SIDE OF ROADWAY

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MISSOURI CERT. OF AUTHORITY: 001538

PROFILE
ROUTE 100
SHEET 20 OF 27

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\075_PR_20_J6S1718C_I20.dgn 2:59:25 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 257+60.00

VPI 259+62.14
EL 634.50

+3.91% -1.88%

PROPOSED GROUND

EXISTING GROUND

SSD = 401'
K = 74
430.00' V.C.

VPT 261+77.14

VPC 263+05.00

MATCHLINE STA. 263+20.00

650 645 640 635 630 625 620 615

626.52 626.59 | 627.15 627.32 | 627.77 627.99 | 628.33 628.61 | 628.87 629.18 | 629.37 629.69 | 629.87 630.14 | 630.32 630.54 | 630.71 630.89 | 631.03 631.18 | 631.31 631.42 | 631.56 631.60 | 631.72 631.73 | 631.83 631.81 | 631.82 631.83 | 631.78 631.79 | 631.61 631.70 | 631.40 631.56 | 631.16 631.37 | 630.91 631.11 | 630.65 630.81 | 630.34 630.45 | 629.95 630.03 | 629.59 629.59 | 629.21 629.17 | 628.82 628.78 | 628.45 628.43 | 628.07 628.11 | 627.73 627.83

258 259 260 261 262 263

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CP # 805 ELEV. 629.09
STA. 266+91.55, 41.05 RT
IRC ON N. SIDE OF ROADWAY

K = 85
300.00' V.C.

VPT 264+55.00
EL 625.25

-1.88% +1.72%

VPC 266+50.00

K = 159
320.00' V.C.

PROPOSED GROUND

EXISTING GROUND

+1.72% +3.73%

VPI 268+10.00
EL 631.35

MATCHLINE STA. 263+20.00

MATCHLINE STA. 268+80.00

650 645 640 635 630 625 620 615

627.73 627.83 | 627.43 627.58 | 627.17 627.36 | 626.98 627.19 | 626.83 627.04 | 626.72 626.94 | 626.64 626.86 | 626.58 626.83 | 626.65 626.83 | 626.82 626.86 | 626.97 626.93 | 627.10 627.03 | 627.28 627.17 | 627.47 627.34 | 627.71 627.55 | 627.98 627.80 | 628.39 628.08 | 628.56 628.39 | 629.13 628.74 | 629.53 629.13 | 629.93 629.55 | 630.31 630.00 | 630.75 630.49 | 631.21 631.02 | 631.75 631.58 | 632.27 632.17 | 632.80 632.80 | 633.43 633.47 | 634.12 634.17

264 265 266 267 268

DATE PREPARED
3/15/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 76
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PROFILE
ROUTE 100
SHEET 21 OF 27

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\076_PR_21_J6S1718C_I20.dgn 2:59:25 PM 3/15/2020

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 268+80.00

MATCHLINE STA. 274+40.00

MATCHLINE STA. 274+40.00

MATCHLINE STA. 280+00.00

EXISTING GROUND

PROPOSED GROUND

VPT 269+70.00

VPI 272+22.22
EL 646.71

VPC 272+91.59

VPI 274+33.30
EL 654.63

+3.73%

+3.75%

+3.75%

-1.60%

SSD = 343'
K = 53
283.43' V.C.

VPT 275+75.02

VPC 277+75.50

VPI 278+57.00
EL 647.84

VPT 279+38.50

VPC 279+52.86

VPI 279+82.86
EL 643.41

-1.60%

-3.52%

-3.52%

-4.42%

SSD = 644'
K = 85
163.00' V.C.

SSD = 1228'
K = 67
60.00' V.C.

CP # 803 ELEV. 647.39
STA. 278+79.62, 5.88 LT
CUT X ON MEDIAN TO THE SOUTH

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DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	7.7

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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DATE	DESCRIPTION
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MISSOURI CERT. OF AUTHORITY: 001538

PROFILE
ROUTE 100
SHEET 22 OF 27

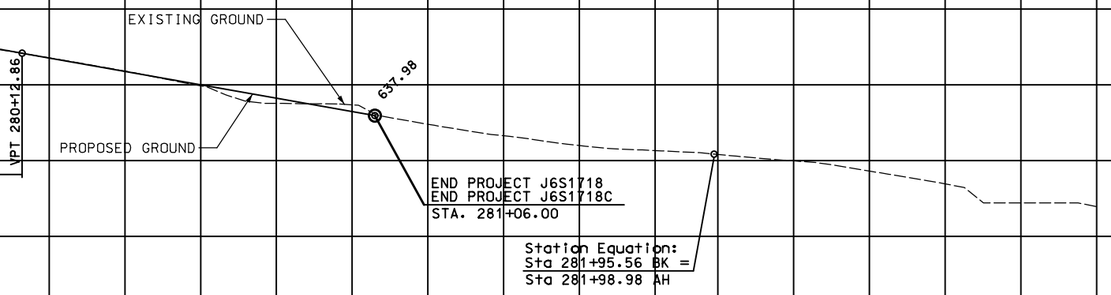
REV.

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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ ROUTE 100

MATCHLINE STA. 280+00.00



660 655 650 645 640 635 630 625

642.62 642.64 | 641.77 641.77 | 640.90 640.88 | 639.93 640.00 | 638.78 639.12 | 638.68 638.23 | 637.40 637.35 | 636.64 636.62 | 635.98 636.09 | 635.66 635.71 | 635.40 635.40 | 634.98 635.00 | 634.31 634.35 | 633.46 633.46 | 632.20 632.69 | 631.95 631.95

280 281 282 283

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DATE PREPARED: 3/15/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 7-8
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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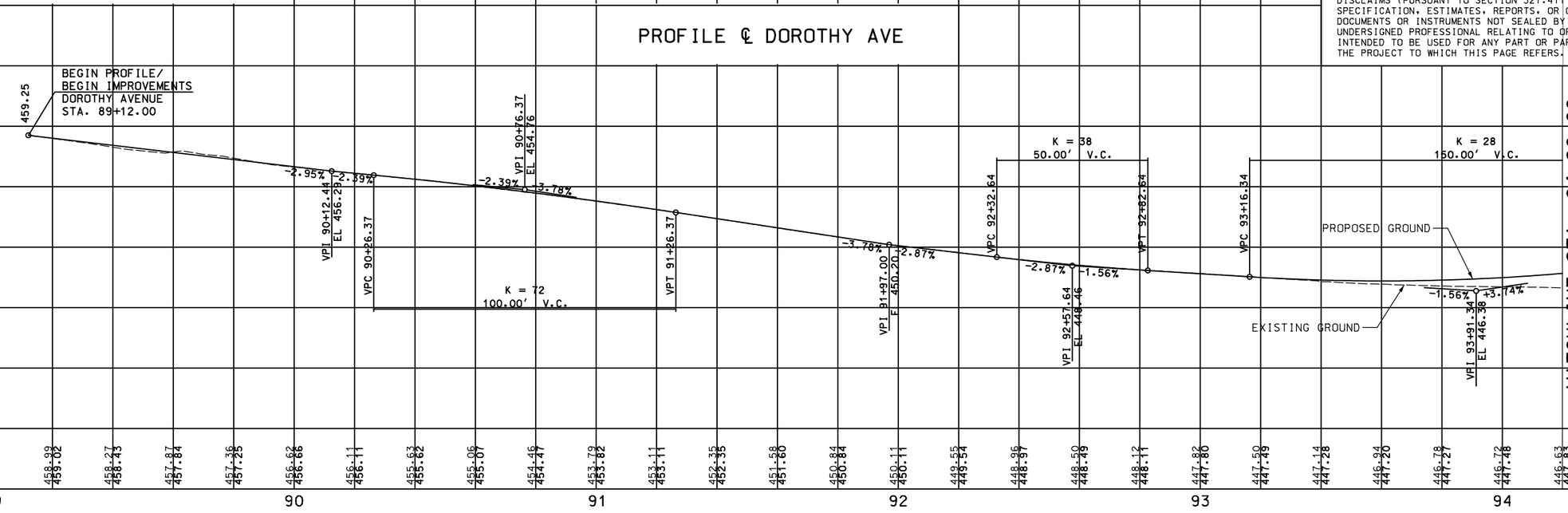
PROFILE
ROUTE 100
SHEET 23 OF 27

REV.

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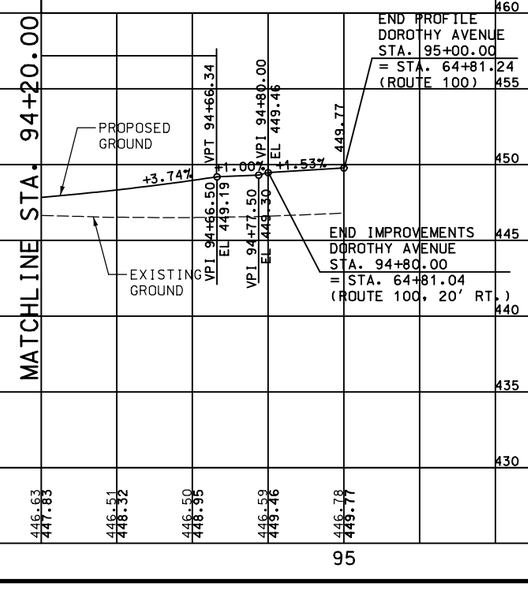
SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ DOROTHY AVE



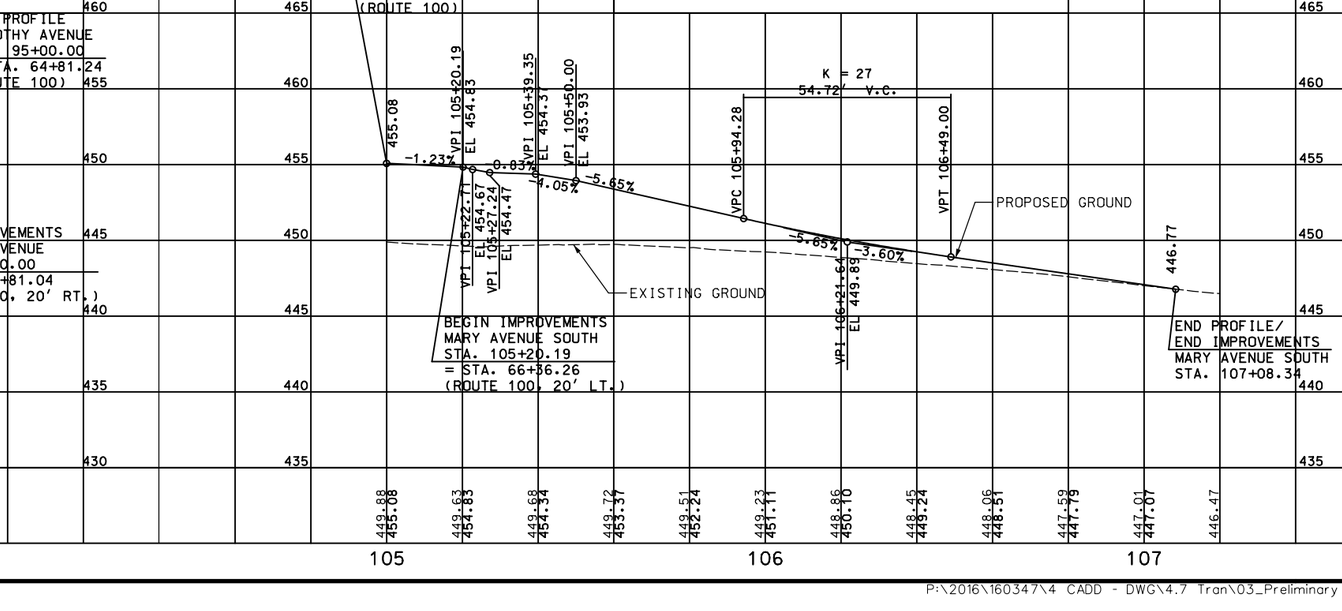
89 90 91 92 93 94

PROFILE ℄ DOROTHY AVE



95

PROFILE ℄ MARY AVE SOUTH



105 106 107

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DATE PREPARED: 3/15/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 79
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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PROFILE
DOROTHY AVE & MARY AVE SOUTH
SHEET 24 OF 27

REV.

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PROFILE ℄ ROGERS PARKWAY

SCALE: 1″ = 20′ HORIZONTAL
1″ = 5′ VERTICAL

BEGIN PROFILE/
BEGIN IMPROVEMENTS
ROGERS PARKWAY
STA. 0+03.07

459.66

VPC 0+15.17

+3.03%

VPI 0+40.17
EL 460.78

-3.85%

VPT 0+65.17

SSD = 182′
K = 7
50.00′ V.C.

EXISTING GROUND

PROPOSED GROUND

K = 13
40.00′ V.C.

VPC 3+81.00

-3.85%

VPI 4+01.00
EL 446.90

-0.75%

VPT 4+21.00

VPC 4+34.34

-0.75%

VPI 4+54.34
EL 446.50

-4.01%

VPT 4+74.34

SSD = 351′
K = 12
40.00′ V.C.

VPC 5+41.57

MATCHLINE STA. 5+60.00

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PROFILE ℄ ROGERS PARKWAY

MATCHLINE STA. 5+60.00

K = 14
50.00′ V.C.

VPI 5+66.57
EL 442.00

VPT 5+91.57

EXISTING GROUND

PROPOSED GROUND

STA. 6+32.24
ROGERS PARKWAY
=STA. 66+00.00
℄ ROUTE 100

-4.00%

-0.50%

K = 11
50.00′ V.C.

VPC 6+79.57

VPI 7+04.57
EL 441.31

-0.50%

+4.00%

VPT 7+29.57

END PROFILE/
END IMPROVEMENTS
ROGERS PARKWAY
STA. 8+33.11

VPI 8+02.50
EL 445.23

+4.00%

+7.00%

445.53

VPC 7+77.50

SSD = 385′
K = 17
50.00′ V.C.

VPT 8+27.50

PROFILE ℄ MARY AVE NORTH

BEGIN PROFILE/
BEGIN IMPROVEMENTS
MARY AVENUE NORTH
STA. 100+57.21

461.01

PROPOSED GROUND

EXISTING GROUND

-0.33%

VPC 102+07.05

25.00′ V.C.
K = 112

VPI 102+19.59
EL 460.47

-0.56%

VPT 102+32.09

460.40

END PROFILE/
END IMPROVEMENTS
MARY AVENUE NORTH
STA. 102+32.10

DATE PREPARED
3/15/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	80

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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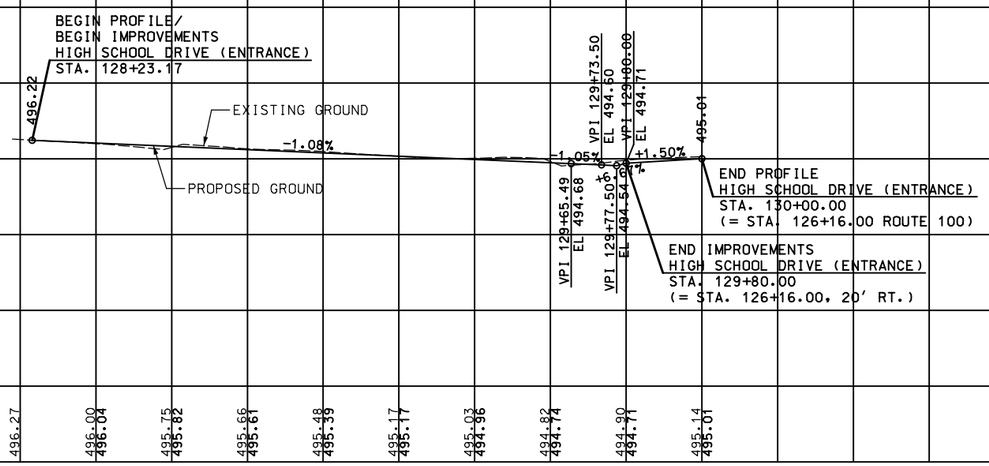
PROFILE
ROGERS PARKWAY &
MARY AVE NORTH

SHEET 25 OF 27

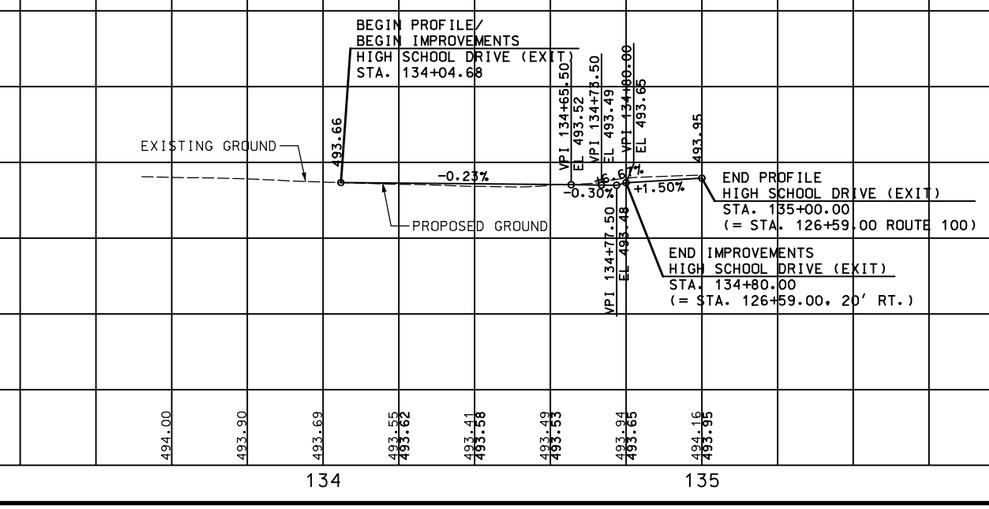
REV.

SCALE: 1″ = 20′ HORIZONTAL
1″ = 5′ VERTICAL

PROFILE ℄ HIGH SCHOOL DR – ENTRANCE



PROFILE ℄ HIGH SCHOOL DR – EXIT



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DATE PREPARED: 3/15/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 81
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

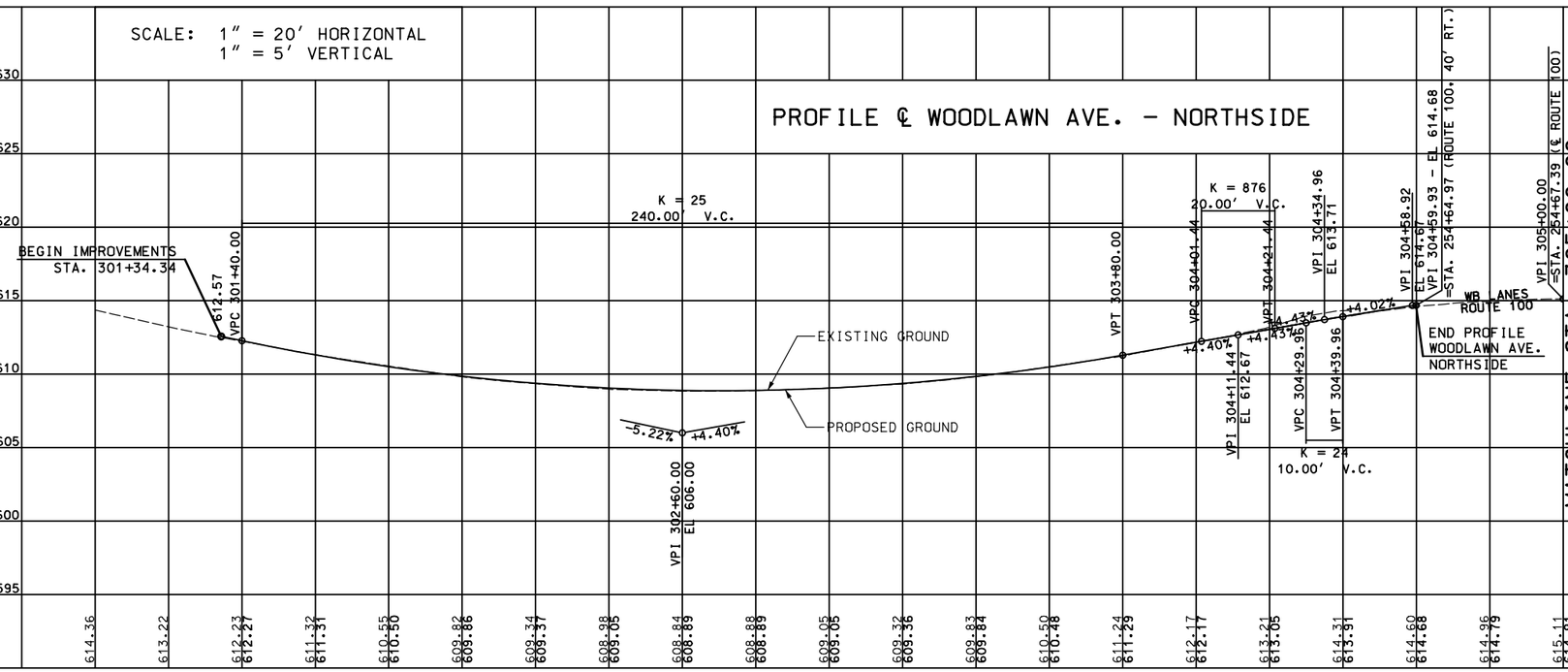
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PROFILE
HIGH SCHOOL DRIVE
ENTRANCE & EXIT
SHEET 26 OF 27

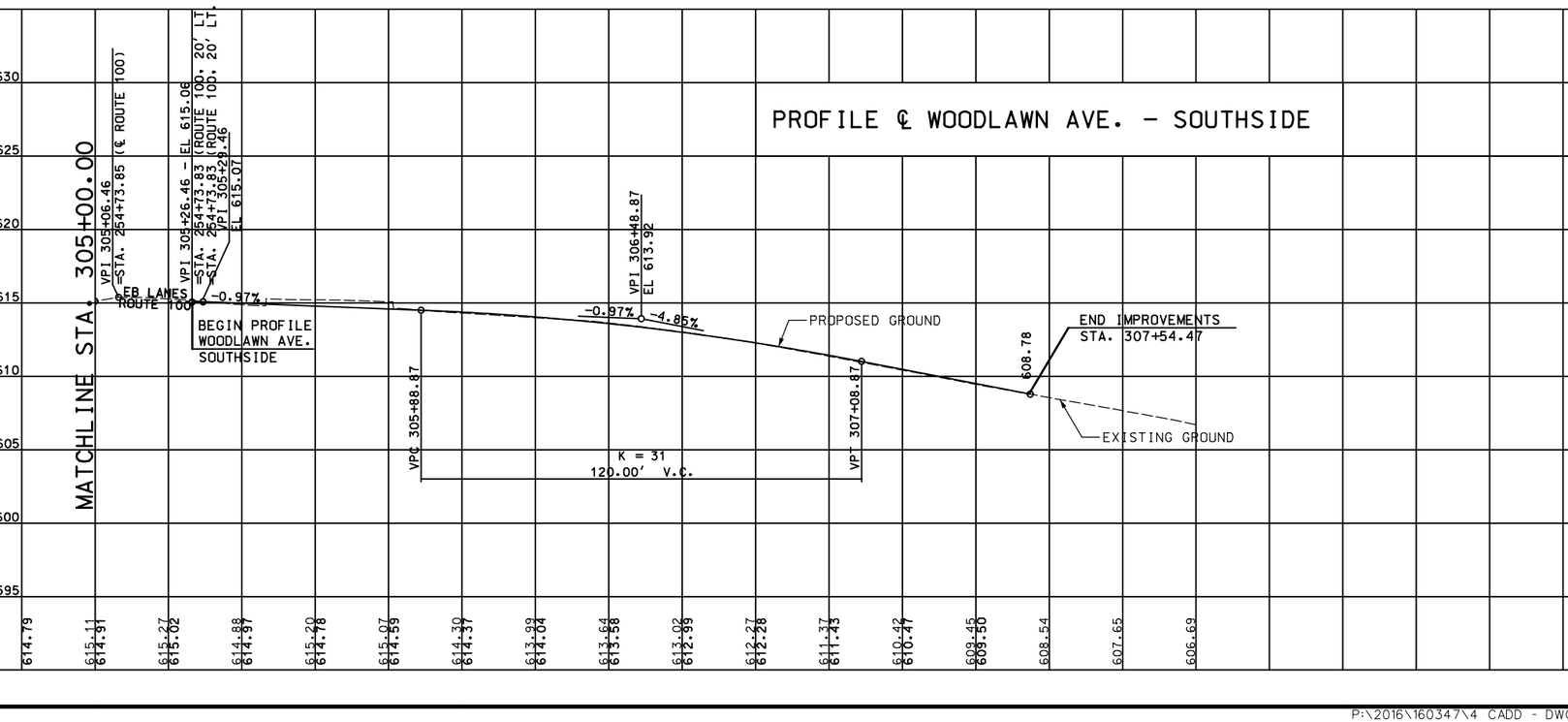
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SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

PROFILE ℄ WOODLAWN AVE. – NORTHSIDE



PROFILE ℄ WOODLAWN AVE. – SOUTHSIDE



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DATE PREPARED: 3/15/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 82
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

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PROFILE
WOODLAWN AVENUE
SHEET 27 OF 27

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\082_PR_27_J6S1718C_I20.dgn 2:59:28 PM 3/15/2020

LEGEND
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

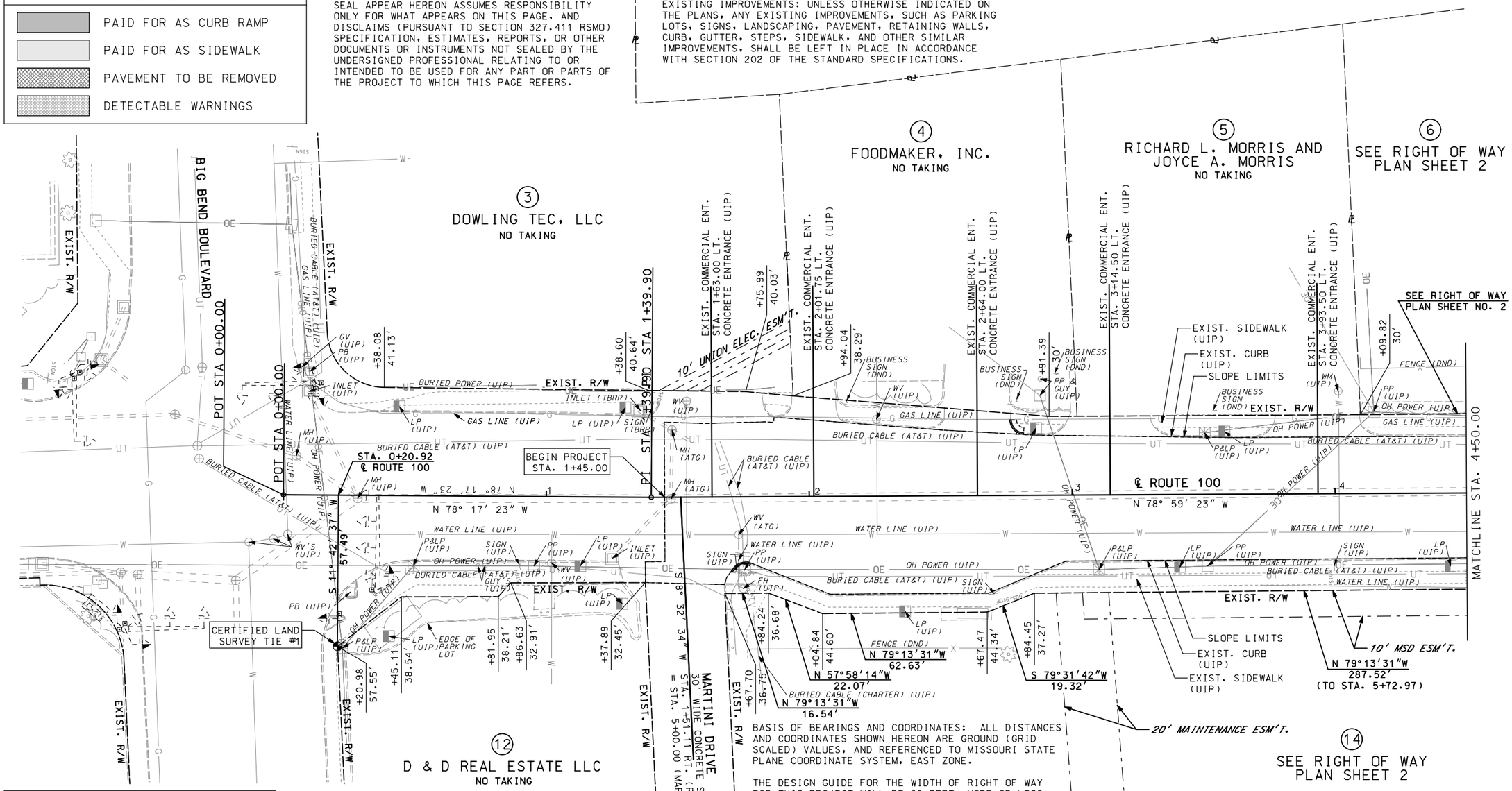
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NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

U.S. SURVEY NO. 2939



ABBREVIATIONS – LEGEND

USE IN PLACE	(UIP)
DO NOT DISTURB	(DND)
ADJUST TO GRADE	(ATG)
ADJUST TO GRADE BY OTHERS	(ATGBO)
REMOVE	(TBR)
TO BE REMOVED AND REPLACED (BY CONTRACTOR)	(TBRR)
TO BE REMOVED AND RELOCATED (BY CONTRACTOR)	(TBR&RELOC)
TO BE REMOVED (BY OTHERS)	(TBRBO)
TO BE REMOVED AND REPLACED (BY OTHERS)	(TBRRBO)
TO BE REMOVED AND RELOCATED (BY OTHERS)	(TBR&RELOCBO)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBAF)

CERTIFIED LAND SURVEY TIE #1

Commencing at a marked Cut "X" in the southeast corner of Lot A in QuikTrip #610R Consolidation Plat recorded in Book 362, Page 280 in St. Louis County Recorder of Deeds office (or along the northside of the Route 100 Right of Way Line and the west Right of Way Line of Big Ben Boulevard) to Route 100 ℄ Sta. 0+20.92, S 11° 42 '37" W a distance of 57.49 feet in U.S. Survey 2939.

BASIS OF BEARINGS AND COORDINATES: ALL DISTANCES AND COORDINATES SHOWN HEREON ARE GROUND (GRID SCALED) VALUES, AND REFERENCED TO MISSOURI STATE PLANE COORDINATE SYSTEM, EAST ZONE.

THE DESIGN GUIDE FOR THE WIDTH OF RIGHT OF WAY FOR THIS PROJECT WILL BE 68 FEET. MORE OR LESS RIGHT OF WAY MAY BE SECURED TO SATISFY THE REQUIREMENTS OF THE DESIGN FEATURES OF THIS HIGHWAY.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND
FROM STA. 4+85.00 TO STA. 5+17.48,
FROM STA. 6+23.55 TO STA. 7+85.00,
FROM STA. 9+65.00 TO STA. 12+25.00,
FROM STA. 21+10.10 TO STA. 24+12.20,
FROM STA. 25+00.00 TO STA. 26+40.00,
FROM STA. 30+07.64 TO STA. 141+92.94, AND
FROM STA. 143+68.40 TO STA. 281+37.87
FOR A TOTAL DISTANCE OF 4.26 MILES.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.

NO DIRECT PAYMENT WILL BE MADE FOR ANY NECESSARY CLEARING AND GRUBBING.

SCALE
0 20 40 60

DATE PREPARED
3/6/2020
ROUTE 100 / STATE MO
DISTRICT SL / SHEET NO. 7.7
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 1 OF 50

REV.

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U.S. SURVEY NO. 2939

(6) EDM REAL ESTATE, LLC
133 S.F. TEMP. ESM'T.
27,415 S.F. REMAINING

(8A) CHARLOTTE PAULI
NO TAKING

(8) WMA GROUP, LLC
NO TAKING

(9) FUSION LIVING, LLC
318 S.F. PERM. ESM'T.
65,755 S.F. REMAINING

(10) ANGELA M. BURTELOW, AND ROBERT L. MANCHE JR., ET AL.
NO TAKING

OAKLAND AVENUE
24' WIDE ASPHALT PVMT.
(MILL & OVERLAY) @ 0.50%
= STA. 8+15.22 LT. (ROUTE 100)
STA. 10+00.00 (OAKLAND AVE)

PI STA 8+45.30

MATCHLINE STA. 4+50.00

MATCHLINE STA. 9+00.00

TEMP. ESM'T. (CONST.)
EXIST. R/W
S 11°00'37"W 4.15'
S 79°15'19"E - 75.18' (TO STA. 4+09.82)
EXIST. SIDEWALK (UIP)
EXIST. CURB (UIP)
EDGE OF PARKING LOT
FENCE (DND)
LANDSCAPING (TBR)
N 78°59'23"W 32.48'
S 79°15'19"E 32.64'
INLET (TBRR)
EXIST. SLOTTED DRAIN (UIP)
EXIST. COMMERCIAL ENT. STA. 5+35.00 LT. CONCRETE ENTRANCE (UIP)
EXIST. COMMERCIAL ENT. STA. 6+03.50 LT. CONCRETE ENTRANCE (UIP)
SAN MH (UIP)
WM (UIP)
PP (UIP)
OH CABLE (AT&T) (UIP)
GAS LINE (UIP)
OH POWER (UIP)
BUSINESS SIGN (DND)
EXIST. WALL (DND)
TREE (DND)
GV (UIP)
WV (UIP)
WV (ATG)
P&LP (UIP)
LP (UIP)
S 08°41'41"W 2.07'
℄ ROUTE 100
N 78°59'15"W 148.39'
S 79°00'53"E 148.31'
N 78° 59' 23" W
N 08°41'41"E 4.00'
WATER LINE (UIP)
MH (ATG)
OH POWER (AMEREN) (UIP)
N 75°49'32"W 22.72'
BURIED CABLE (AT&T) (UIP)
10' INGRESS/ EGRESS ESM'T.
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. SIDEWALK (UIP)
SLOPE LIMITS
MSD ESM'T.
EXIST. R/W
S 8° 44' 15" W
N 08°44'15"E
N 81°01'36"W 2.00' 19.60'
N 81°01'36"W 6.35'
INLET (UIP)
BURIED POWER (UIP)
SIGNAL POST (UIP)
SIGNAL EQUIP. (UIP)
SIGNAL POSTS (UIP)
BURIED CABLE (AT&T) (UIP)
TMH (UIP)
GAS LINE (UIP)
EDGE OF PARKING LOT
SIGN (UIP)
SAN SEWER (UIP)
SAN MH (ATG)
CONTROLLER (UIP)
OH POWER (UIP)
WM (UIP)
GUY (UIP)
SLOPE LIMITS
EXIST. CURB (UIP)
EXIST. SIDEWALK (UIP)
SEE RIGHT OF WAY PLAN SHEET NO. 1
10' MSD ESM'T.
+72.97 36.08'
N 75°49'32"W 71.14'
S 11°00'37"W 14.99'
+44.00 40.01' - 55.00'
S 78°59'23"E 20.00'
N 11°00'37"E 5.00'
+64.00 50' - 55'
+66.68 41.27'
27' COMMERCIAL ENT. CONC. APPROACH @ 0.55% STA. 6+84.25 RT.
+15.00 45' - 50'
N 78°37'50"W 111.97'
S 78°59'23"E 51.00'
N 11°00'37"E 5.00'
TEMP. ESM'T. (CONST.)
BUSINESS SIGN (DND)
+78.65 41.97'
+85.00 41.74' - 45'
S 78°59'23"E 70.00'
+04.59 41.04'
+04.58 46.87'
+16.60 46.88'
+16.53 40.27'
N 11°00'37"E 3.26'
+50.94 39.39'
N 80°27'16"W 34.39'
10' MSD ESM'T.
N 82°39'56"W 84.67' (TO STA. 9+35.43)
+30.35' - 34.50'
+17.48 34.50'
+17.64 30.50'
+82.68 30' +82.65 30.76'
+83.65 30.76' +83.68 30'
+23.55 33.00' +23.64 30.93'
+71.94 30.99' - 32.99'
+75.94 31' - 33'
+83.96 31.00'
+83.88 33.00'
+43.68 39.02'

(14) CITY OF MAPLEWOOD, MISSOURI
953 S.F. TEMP. ESM'T
681,708 S.F. REMAINING

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

1. N 11°00'40"E - 2.00'
2. S 79°00'53"E - 4.00'
3. S 11°00'40"W - 2.00'
4. S 79°00'53"E - 8.02'
5. N 79°01'15"W - 7.94'
6. S 11°02'38"W - 5.83'
7. S 78°57'22"E - 12.02'
8. N 10°25'34"E - 6.61'

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SCALE
0 20 40 60

DATE PREPARED 3/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 7-8
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 2 OF 50

REV.

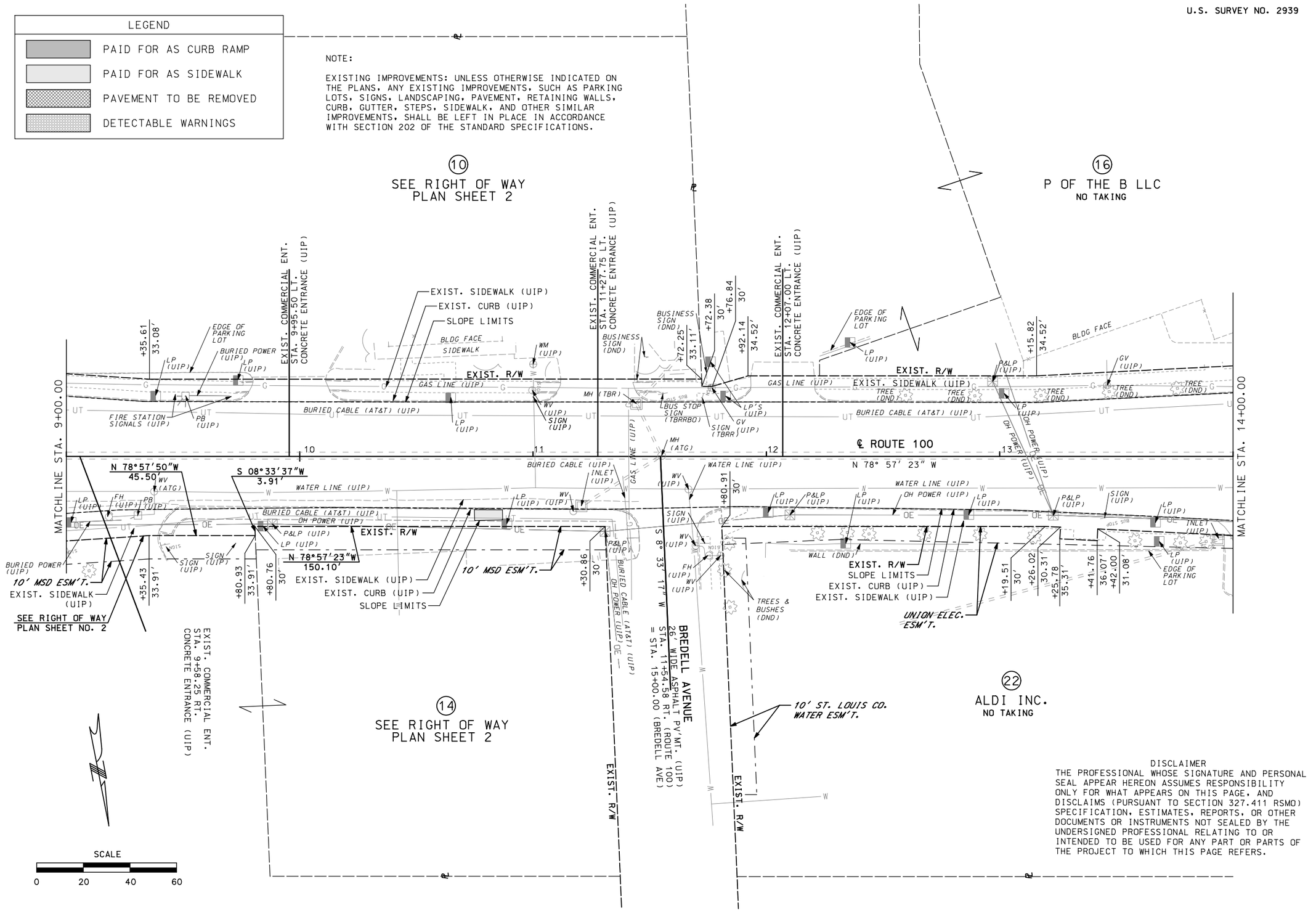
P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\084_RW_02_J6S1718_120.dgn 1:08:30 PM 3/5/2020

U.S. SURVEY NO. 2939

LEGEND	
	PAID FOR AS CURB RAMP
	PAID FOR AS SIDEWALK
	PAVEMENT TO BE REMOVED
	DETECTABLE WARNINGS

NOTE:

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DATE PREPARED	3/5/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	7.9
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION	REV.
.	.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 3 OF 50

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LEGEND

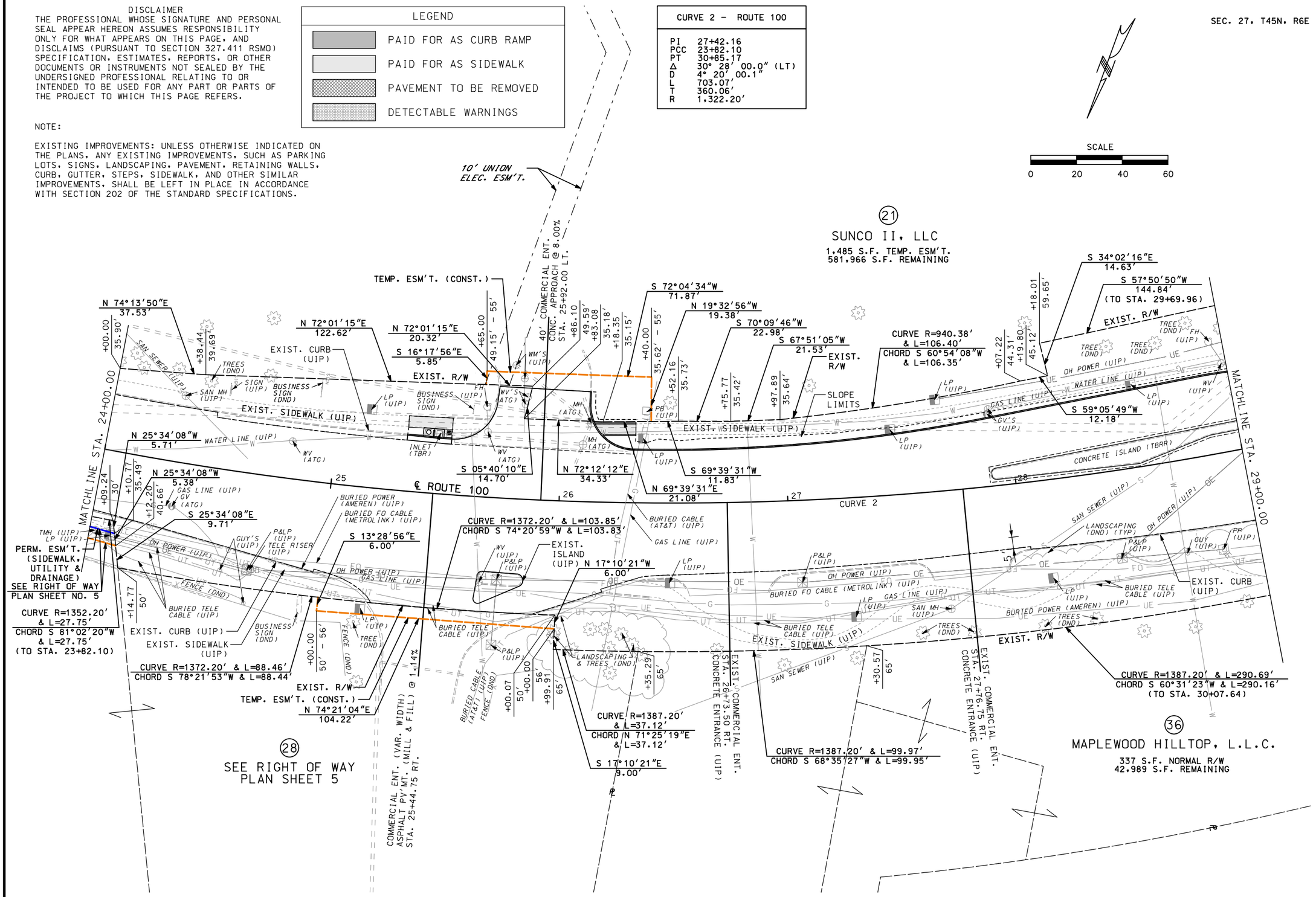
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

CURVE 2 – ROUTE 100

PI	27+42.16
PCC	23+82.10
PT	30+85.17
Δ	30° 28′ 00.0″ (LT)
D	4° 20′ 00.1″
L	703.07′
T	360.06′
R	1,322.20′

SEC. 27, T45N, R6E

SCALE 0 20 40 60



DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	82
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REVISION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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(314) 241-6300
www.twm-llc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 6 OF 50

LEGEND
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

CURVE 1 – HANLEY RD	
PI	36+85.77
PC	35+29.13
PT	38+34.94
Δ	30° 34′ 48.6″ (RT)
D	9° 59′ 59.9″
L	305.80′
T	156.64′
R	572.96′

U.S SURVEY NO. 1930 & SEC. 27, T45N, R6E

HANLEY ROAD

(21) SEE RIGHT OF WAY PLAN SHEET 6

(30) SUNNEN PRODUCTS COMPANY
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(31) SEE RIGHT OF WAY PLAN SHEET 8

(36) SEE RIGHT OF WAY PLAN SHEET 6

(37) OUTDOOR SYSTEMS, INC.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(38) MIRAN INVESTMENT CO
NO TAKING

(39) SEE RIGHT OF WAY PLAN SHEET 8

SEE RIGHT OF WAY PLAN SHEET NO. 6

SEE RIGHT OF WAY PLAN SHEET NO. 6

TEMP. ESM'T. (CONST.)
S 15°56′53″E
34.38′

EXIST. SIDEWALK (UIP)

SLOPE LIMITS
S 57°45′25″W
39.01′

N 35°58′59″W
10.00′

EXIST. R/W

CURVE R=532.96′ & L=28.59′
CHORD S 08°21′36″E & L=28.58′

CURVE R=532.96′ & L=66.10′
CHORD S 13°26′59″E & L=66.06′

S 75°19′21″W
5.00′

CURVE R=612.96′ & L=32.23′
CHORD N 16°11′02″W & L=32.23′

N 52°22′08″E
5.52′

S 52°22′08″W
46.15′

PC STA 35+29.13 (HANLEY)
STA. 30+89.54 (ROUTE 100)
POT1 STA 30+99.00
(ROUTE 100)

PT STA 30+85.17
(ROUTE 100)

EQUATION:
Sta 30+96.88 BK =
Sta 30+99.00 AH
PI STA 35+00.00 (HANLEY)
STA. 31+20.79 (ROUTE 100)

CURVE R=1387.20′ & L=10.33′
CHORD S 54°18′24″W & L=10.33′

MATCHLINE STA. 29+00.00

MATCHLINE STA. 34+00.00

N 69°22′06″W
28.22′

TEMP. ESM'T. (CONST.)

OH CABLE (CHARTER) (TBR& RELOCBO)

S 51°09′37″W
125.92′

10′ UNION ELEC. ESM'T.

120′ STORM CHANNEL ESM'T.

BLACK CREEK

S 51°09′37″W
122.28′
(TO STA. 34+50.00)

EXIST. CONC. PAD (TBR)

SLOPE LIMITS
S 57°19′31″W
93.12′

S 51°09′37″W
114.67′

N 84°00′05″W
147.91′

R/W LINE

N 06°34′45″E
42.74′

WINDSOCK (TBR)

BURIED CABLE (CHARTER) (TBR&RELOCBO)

N 51°09′37″E
122.19′

N 51°09′37″E
185.25′
(TO STA. 34+52.09)

END BRIDGE
STA. 32+80.35

BEGIN BRIDGE
STA. 31+68.53

N 51°09′37″E
23.86′

S 51°09′37″W
36.53′

℄ ROUTE 100
S 51° 09′ 37″ W

S 51°09′37″W
274.19′
(TO STA. 34+52.09)

N 51°09′37″E
284.58′
(TO STA. 34+52.09)

MSD ESM'T.

10′ WATER PIPE ESM'T.

10′ MSD ESM'T.

TEMP. ESM'T. (CONST.)

24′ CROSS ACCESS ESM'T.

N 07°15′24″E
14.42′

S 09°23′21″E
35.01′

N 04°44′42″E
28.28′

S 50°16′57″E
40.75′

N 50°16′57″W
26.60′

N 09°23′21″W
15.28′

S 09°23′21″E
53.42′

EXIST. BILLBOARDS (DND)

SLOPE LIMITS

R/W LINE

EXIST. COMMERCIAL ENT. STA. 29+62.25 RT. CONCRETE ENTRANCE (UIP)

L HANLEY ROAD
S 9° 23′ 21″ E

SAN SEWER (UIP)

SAN MH (UIP)

NOTE:

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SCALE
0 20 40 60

DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	83
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION . . . . . DATE . . . . .

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 7 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\083_RW_07_J6S1718_120.dgn 12:44:16 PM 3/6/2020

U.S. SURVEY NO. 1930

CURVE 3 – ROUTE 100	
PI	35+68.52
PC	34+52.09
PCC	36+81.86
Δ	22° 50′ 00.0″ (RT)
D	9° 56′ 15.1″
L	229.77′
T	116.43′
R	576.56′

CURVE 4 – ROUTE 100	
PI	38+02.23
PCC	36+80.40
PCC	39+23.14
Δ	12° 08′ 00.0″ (RT)
D	4° 59′ 54.3″
L	242.74′
T	121.83′
R	1,146.28′

(31)
THE GENE ROBERT FREDERIC, JR. TRUST II
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(32)
WEI'S INVESTMENT, LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(33)
SHAM TEKWANI AND NEETA TEKWANI
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(39 & 40)
SIMMONS FIRST NATIONAL BANK, ETAL
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(41)
BESTAR, LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

SEE RIGHT OF WAY PLAN SHEET NO. 7

SEE RIGHT OF WAY PLAN SHEET NO. 9

TEMP. ESM'T. (CONST.)

25′ INGRESS/ EGRESS ESM'T.

R/W LINE

EXIST. R/W

SLOPE LIMITS

℄ ROUTE 100

PC STA 34+52.09

PCC STA 36+80.40

EQUATION: Sta 36+81.86 BK = Sta 36+80.40 AH

MATCHLINE STA. 34+00.00

MATCHLINE STA. 39+00.00

10′ WATER PIPE ESM'T.

10′ MSD ESMT.

24′ CROSS ACCESS ESM'T.

35′ COMMERCIAL ENT. CONC. APPROACH @ 8.00% STA. 34+58.00 RT. (CONC. PV'MT TIE-IN)

48′ COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 34+58.00 LT. (CONC. PV'MT TIE-IN)

28′ COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 35+85.00 LT. (ASPHALT PV'MT TIE-IN)

35′ COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 36+08.00 RT. (CONC. PV'MT TIE-IN)

30′ COMMERCIAL ENT. CONC. APPROACH @ 6.00% STA. 37+07.50 LT. (ASPHALT PV'MT TIE-IN)

30′ COMMERCIAL ENT. CONC. APPROACH @ 5.00% STA. 37+71.00 LT. (ASPHALT PV'MT TIE-IN)

24′ COMMERCIAL ENT. CONC. APPROACH @ 5.00% STA. 38+63.25 LT. (ASPHALT PV'MT TIE-IN)

30′ COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 37+09.50 RT. (CONC. PV'MT TIE-IN)

① N 06°44′45″E – 17.64′
② N 06°44′45″E – 25.40′
③ N 01°30′22″W – 6.15′
④ N 01°30′22″W – 14.73′

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE
0 20 40 60

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

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DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	84
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE	.	.	.	.	.	.	.
REV.	.	.	.	.	.	.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 8 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\084_RW_08_J6S1718_120.dgn 12:48:35 PM 3/6/2020

CURVE 5 - ROUTE 100	
PI	40+97.80
PCC	39+23.14
PT	42+72.29
Δ	4° 24' 00.0" (RT)
D	1° 15' 36.7"
L	349.15'
T	174.66'
R	4,546.55'

① N 01°30'22"W - 12.50'
② N 01°30'22"W - 14.48'
③ S 01°30'22"E - 7.72'
④ S 01°30'22"E - 15.29'
⑤ CURVE R=4576.55' & L=15.26'
CHORD N 87°24'32"E & L=15.26'
⑥ N 01°32'00"W - 9.89'
⑦ N 01°32'00"W - 2.00'
⑧ S 07°41'24"W - 20.81'
⑨ S 07°41'24"W - 27.01'
⑩ CURVE R=4516.55' & L=20.86'
CHORD S 87°13'47"W & L=20.86'
⑪ N 47°31'34"E - 3.12'
⑫ N 07°41'24"E - 2.03'
⑬ N 07°41'24"E - 18.20'
⑭ N 07°41'54"E - 2.03'
⑮ N 07°41'54"E - 18.45'
⑯ N 89°05'57"E - 60.37'
⑰ CURVE R=4514.55' & L=60.25'
CHORD S 89°53'47"W & L=60.25'
⑱ CURVE R=4516.55' & L=60.25'
CHORD S 89°53'59"W & L=60.25'
⑲ N 07°41'46"E - 2.02'
⑳ N 07°41'46"E - 17.60'
㉑ CURVE R=4516.55' & L=19.30'
CHORD N 89°35'44"W & L=19.30'
㉒ CURVE R=4514.55' & L=19.55'
CHORD N 89°35'50"W & L=19.55'
㉓ N 89°28'23"W - 16.08'
㉔ N 89°28'23"W - 15.83'
㉕ N 07°42'44"E - 2.02'
㉖ N 07°42'44"E - 16.75'
㉗ N 89°28'23"W - 8.64'
㉘ N 07°39'33"E - 2.72'

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

(33) SEE RIGHT OF WAY PLAN SHEET 8

(43) FELICE PROPERTIES, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

U.S. SURVEY NO. 1930

BRECKENRIDGE INDUSTRIAL COURT
30' WIDE CONCRETE PV'MT. @ -6.67%
STA. 39+86.67 LT. (ROUTE 100)
= STA. 40+00.00 (BRECKENRIDGE INDUST CT.)

PCC STA 39+23.14
PT STA 42+72.29

EXIST. R/W
EXIST. SLOPE LIMITS
EXIST. EDGE OF PARKING LOT
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
10' ELEC. ESM'T.
10' WATER PIPE ESM'T.
PROP. WALL (SMALL BLOCK)
34.5' COMMERCIAL ENT. CONC. APPROACH @ 4.00% STA. 40+64.25 LT. (ASPHALT PV'MT TIE-IN)
28' COMMERCIAL ENT. CONC. APPROACH @ 5.00% STA. 41+48.50 LT. (ASPHALT PV'MT TIE-IN)
43.5' COMMERCIAL ENT. CONC. APPROACH @ 3.00% STA. 42+26.75 LT. (CONCRETE PV'MT TIE-IN)
30' COMMERCIAL ENT. CONC. APPROACH @ 3.00% STA. 43+02.50 LT. (ASPHALT PV'MT TIE-IN)
30' COMMERCIAL ENT. CONC. APPROACH @ 5.00% STA. 43+58.00 LT. (ASPHALT PV'MT TIE-IN)
64' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 41+20.00 RT. (ASPHALT PV'MT TIE-IN)
25' COMMERCIAL ENT. CONC. APPROACH @ 5.00% STA. 42+04.00 RT. (ASPHALT PV'MT TIE-IN)
56' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 42+73.00 RT. (CONC. & ASPH. PV'MT TIE-IN)

SEE RIGHT OF WAY PLAN SHEET NO. 8
TEMP. ESM'T. (CONST.) S 88°03'36"W 107.75' (TO STA. 38+55.00)
CURVE R=4576.55' & L=34.76'
CHORD N 86°20'40"E & L=34.76'
CURVE R=4578.55' & L=22.38'
CHORD S 86°16'01"W & L=22.38'
S 42°26'15"W 17.94'
CURVE R=1178.28' & L=23.79'
CHORD S 85°32'54"W & L=23.79'
CURVE R=4516.55' & L=79.55'
CHORD S 87°52'00"W & L=79.55'
CURVE R=4514.55' & L=81.59'
CHORD S 87°50'58"W & L=81.59'
CURVE R=4576.55' & L=152.58'
CHORD N 88°27'34"E & L=152.58'
CURVE R=4578.55' & L=154.58'
CHORD N 88°26'49"E & L=154.58'
S 88°16'43"W 154.00'
N 47°00'03"W 2.80'
N 47°00'03"W 18.59'
CURVE R=4516.55' & L=90.38'
CHORD S 88°56'40"W & L=90.37'
CURVE R=4514.55' & L=90.38'
CHORD S 88°56'26"W & L=90.37'
CURVE R=4576.55' & L=88.83'
CHORD N 89°58'15"E & L=88.83'
CURVE R=4578.55' & L=88.90'
CHORD S 89°58'14"W & L=88.90'
℄ ROUTE 100
N 89°05'57"E 82.06'
N 89°05'57"E 90.33'
N 89°05'57"E 35.49'
N 00°45'44"W 11.00'
S 89°46'24"W 13.98'
S 89°46'24"W 71.80'
S 00°18'32"W 6.00'
N 89°29'19"W 123.68'
S 89°28'23"E 47.71'
S 89°28'23"E 58.50'
N 89°28'23"W - 40.88' (TO STA. 44+19.21)
N 89°28'23"W - 147.03' (TO STA. 44+19.21)
N 00°31'37"E 6.00'
N 00°31'37"E 10.00'
N 89°28'23"W 13.62'
N 89° 28' 23" W 69.14'
N 89°28'23"W 13.88'
S 00°31'37"W 2.00'
S 00°31'37"W 30.01'
N 89°28'23"W 9.00'
N 89°05'57"E 24.98'
S 71°27'31"E 8.73'
N 00°31'37"E 18.00'
S 7° 39' 33" W
S 42°16'46"E 17.93'
N 07°41'24"E 24.47'
N 47°31'34"E 28.91'
N 47°31'34"E 16.81'
N 07°41'24"E 19.79'
S 82°18'36"E 7.00'
CURVE R=4496.55' & L=31.69'
CHORD S 86°19'43"W & L=31.69'

STA. 39+00.00 MATCHLINE
STA. 44+00.00 MATCHLINE

(41) SEE RIGHT OF WAY PLAN SHEET 8

PORTER AVENUE
22' WIDE ASPHALT PV'MT @ 13.61%
STA. 39+94.07 RT. (ROUTE 100)
= STA. 45+00.00 (PORTER AVE)

(42) COMMERCIAL TRANSMISSION COMPANY
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(53) B E JAM, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

HANSEN & COLLINS INVESTMENTS LLC
NO TAKING

MELVIN AVENUE
25' WIDE ASPHALT PV'MT @ 1.00%
STA. 44+07.65 RT. (ROUTE 100)
= STA. 50+00.00 (MELVIN AVE)

SCALE
0 20 40 60

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NOTE:
EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

CERTIFIED LAND SURVEY TIE #2

Commencing at an Iron Pipe in the southwest corner of Lot 8125-31 in Brazeaux Melvin Avenue Boundary Adjustment Plat recorded in Book 358, Page 216 in St. Louis County Recorder of Deeds office (or along the northside of the Route 100 Right of Way Line and the east Right of Way Line of Melvin Avenue) to Route 100 ℄ Sta. 43+88.78, S 00° 31' 37" W a distance of 30.01 feet in U.S. Survey 1930.

DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	85
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-llc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY PLAN
ROUTE 100
SHEET 9 OF 50

U.S. SURVEY NO. 1930

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

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① S 07°39'33"W - 1.01'
② S 07°39'33"W - 30.38'
③ S 82°20'27"E - 10.00'
④ N 07°39'33"E - 13.43'
⑤ S 89°01'11"E - 39.07'
⑥ S 89°01'11"E - 49.13'
⑦ N 89°01'11"W - 49.13'
⑧ N 07°39'33"E - 1.01'
⑨ N 07°39'33"E - 18.12'
⑩ S 89°01'11"E - 45.84'
⑪ S 89°01'11"E - 49.00'
⑫ N 89°01'11"W - 49.00'
⑬ N 07°39'33"E - 1.01'
⑭ N 07°39'33"E - 7.05'
⑮ S 00°58'49"W - 5.00'
⑯ S 89°01'11"E - 2.58'
⑰ N 07°39'33"E - 16.11'
⑱ S 89°01'11"E - 48.83'
⑲ S 89°01'11"E - 48.83'
⑳ N 89°01'11"W - 48.83'
㉑ N 07°39'33"E - 8.05'
㉒ N 07°39'33"E - 5.03'
㉓ N 07°39'33"E - 11.08'
㉔ S 89°01'11"E - 48.83'
㉕ S 89°01'11"E - 48.83'
㉖ N 89°01'11"W - 48.83'
㉗ N 07°39'33"E - 5.03'
㉘ N 07°39'33"E - 8.05'

(43) SEE RIGHT OF WAY PLAN SHEET 9

(45) FELICE PROPERTIES, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

MERCANTILE DRIVE
49' WIDE CONCRETE PV'MT @ 7.00%
STA. 45+17.12 LT. (ROUTE 100)
= STA. 55+00.00 (MERCANTILE DR)

EXIST. R/W

SEE RIGHT OF WAY PLAN SHEET NO. 9

PI STA 44+19.21

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T (CONST.)

SLOPE LIMITS

EXIST. R/W LINE

BURIED FO CABLE (MCI) (TBR&RELOCBO)

BURIED FO CABLE (METROLINK) (TBR&RELOCBO)

BURIED CABLE (AT&T) (TBR&RELOCBO)

℄ ROUTE 100

45' COMMERCIAL ENT. CONC. APPROACH @ 5.00% STA. 47+18.00 LT. (ASPHALT PV'MT TIE-IN)

37' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 44+47.06 RT. (CONCRETE PV'MT TIE-IN)

43' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 44+95.76 RT. (ASPHALT PV'MT TIE-IN)

45' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 45+89.00 RT. (ASPHALT PV'MT TIE-IN)

45' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 46+45.00 RT. (ASPHALT PV'MT TIE-IN)

30' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 48+72.50 RT. (ASPHALT PV'MT TIE-IN)

PROP. WALL (SMALL BLOCK) TIE TO EXIST. WALL

(54) RENOVATION REAL ESTATE, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(55) T & C REAL ESTATE, L.L.C.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(56) LAND LOVERS LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(57) LAPLANTE HOLDINGS, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(58) MAC'S CONVENIENCE STORES LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(59) RPM HOLDINGS, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

MELVIN AVENUE
EXIST. R/W

LOUIS AVENUE
26' WIDE ASPHALT PV'MT @ 6.74%
STA. 47+94.30 RT. (ROUTE 100)
= STA. 60+00.00 (LOUIS AVE)

SEE RIGHT OF WAY PLAN SHEET NO. 11

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SCALE
0 20 40 60

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 86
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

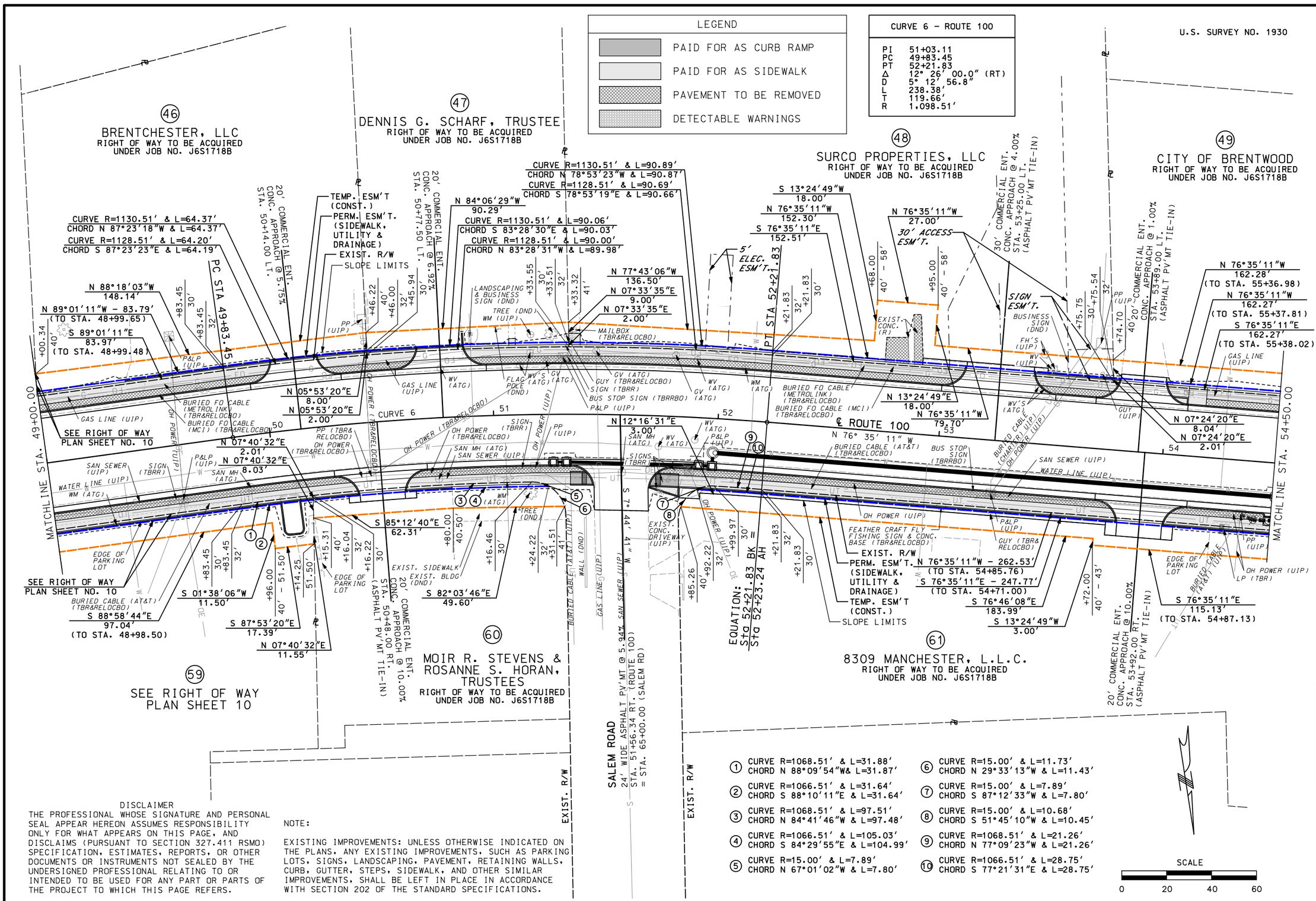
DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 10 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\086_RW_10_J6S1718_120.dgn 10:58:36 AM 3/6/2020



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① CURVE R=1068.51' & L=31.88'
CHORD N 88°09'54"W& L=31.87'

② CURVE R=1066.51' & L=31.64'
CHORD S 88°10'11"E & L=31.64'

③ CURVE R=1068.51' & L=97.51'
CHORD N 84°41'46"W & L=97.48'

④ CURVE R=1066.51' & L=105.03'
CHORD S 84°29'55"E & L=104.99'

⑤ CURVE R=15.00' & L=7.89'
CHORD N 67°01'02"W & L=7.80'

⑥ CURVE R=15.00' & L=11.73'
CHORD N 29°33'13"W & L=11.43'

⑦ CURVE R=15.00' & L=7.89'
CHORD S 87°12'33"W & L=7.80'

⑧ CURVE R=15.00' & L=10.68'
CHORD S 51°45'10"W & L=10.45'

⑨ CURVE R=1068.51' & L=21.26'
CHORD N 77°09'23"W & L=21.26'

⑩ CURVE R=1066.51' & L=28.75'
CHORD S 77°21'31"E & L=28.75'

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 87
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
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(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 1-1 OF 50

LEGEND
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

① CURVE R=1880.00' & L=37.50'
CHORD S 77°09'28"E & L=37.50'

② CURVE R=1878.00' & L=37.29'
CHORD N 77°09'19"W & L=37.29'

③ S 13°08'40"W - 7.00'

④ N 77°16'13"W - 26.98'

⑤ N 07°28'21"E - 15.05'

⑥ N 07°28'21"E - 2.01'

⑦ CURVE R=1880.00' & L=20.06'
CHORD S 78°02'05"E & L=20.06'

⑧ CURVE R=1878.00' & L=20.06'
CHORD N 78°01'48"W & L=20.06'

⑨ N 77°59'38"W - 20.06'

⑩ N 07°28'21"E - 7.02'

⑪ N 07°28'21"E - 8.02'

⑫ N 07°28'21"E - 2.01'

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(49) SEE RIGHT OF WAY PLAN SHEET 11

U.S. SURVEY NO. 1930

LILLIAN AVENUE (20' WIDTH) CONC. APPROACH @ 0.11% (ASPHALT PV'MT TIE-IN) STA. 56+51.67 LT. (ROUTE 100) = STA. 75+00.00 (LILLIAN AVE)

(64) GWH, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(65) K. HALL STUDIO LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(66) SOVRAN ACQUISITION LIMITED PARTNERSHIP
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

SEE RIGHT OF WAY PLAN SHEET NO. 11

TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
SLOPE LIMITS

S 76°35'11"E 63.01'
N 76°35'11"W 63.21'
N 76°36'09"W 72.83'

30' COMMERCIAL ENT. CONC. APPROACH @ 3.00% STA. 55+99.50 LT.

N 79°50'31"W 100.11'
CURVE R=1870.00' & L=100.12'
CHORD S 79°51'07"E & L=100.11'

162' COMMERCIAL ENT. CONC. APPROACH @ 4.00% STA. 57+27.00 LT. (ASPHALT PV'MT TIE-IN)

CURVE R=1870.00' & L=44.25'
CHORD S 84°12'31"E & L=44.25'
CURVE R=1870.00' & L=70.00'
CHORD S 82°27'30"E & L=70.00'
N 82°27'29"W 70.00'

20' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 58+65.00 LT. (ASPHALT PV'MT TIE-IN)

N 84°27'38"W - 69.78' (TO STA. 59+03.53)
S 84°53'11"E - 25.53' (TO STA. 59+03.25)

EXIST. ESM'T. (SEE PLAN SHEET 13)

PT STA 58+77.72

MATCHLINE STA. 54+50.00

MATCHLINE STA. 59+00.00

BUSINESS SIGN (DND)
FLAG POLE (DND)
ROCK (TBR)
BOLLARDS (DND)
WM & WV (UIP)
GAS LINE (UIP)
WV (ATG)
LANDSCAPING (TBR)
OH POWER (UIP)
MH (UIP)
MULCH (TBR)
PLANTER BOX (TBRR)
GV (ATG)
P&LP (UIP)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED FO CABLE (METROLINK) (TBR&RELOCBO)
BURIED FO CABLE (CHARTER) (TBR&RELOCBO)
BURIED CABLE (AT&T) (TBR&RELOCBO)
BURIED CABLE (AT&T) (UIP)
BURIED CABLE (TBR&RELOCBO)
BURIED CABLE (AMEREN) (UIP)
GV'S (ATG) (UIP)
SAN MH'S (ATG)
SAN SEWER (UIP)
WATER LINE (UIP)
SIGN (TBRR)
PP (UIP)
INLET (UIP)
FH (UIP)
FH (TBR&RELOCBO)
BLDG FACE
FOR SALE SIGN (DND)
FENCE (TBR)
WALL (DND)

N 07°28'21"E 8.04'
N 07°28'21"E 2.01'
N 07°28'21"E 7.00'
N 07°28'21"E 7.00'
N 07°24'57"E 5.08'
N 07°24'57"E 8.04'
S 07°24'57"W 10.06'
S 07°24'57"W 3.02'
N 07°24'57"E 10.02'
N 07°24'57"E 3.01'
N 07°15'05"E 10.00'
N 07°15'05"E 5.00'
S 07°15'05"W 13.01'
S 07°15'05"W 5.00'
S 13°24'49"W 3.00'
S 76°35'11"E 15.29'
S 77°19'26"E 150.63'
N 76°35'11"W 64.99'
S 76°35'11"E 63.94'
S 09°48'53"W 2.00'
S 80°37'13"E 29.68'
S 82°28'43"E 97.13'
S 79°39'45"E 35.64'

CURVE R=1940.00' & L=162.34'
CHORD N 81°30'50"W & L=162.29'
CURVE R=1950.00' & L=162.37'
CHORD S 81°31'11"E & L=162.32'

CURVE R=1940.00' & L=85.67'
CHORD N 77°51'05"W & L=85.66'
CURVE R=1950.00' & L=86.72'
CHORD S 77°51'37"E & L=86.71'

N 76° 35' 11" W

OH POWER (UIP)
OH POWER (TBR&RELOCBO)
OH POWER (AMEREN) (UIP)
COUNTY GLASS & MIRROR SIGN (TBR& RELOCBO)
SIGNS (TBR)
SIGN (TBR& RELOCBO)
PP (UIP)
SAN MH'S (ATG)
MH (UIP)
MH (ATG)
GV (ATG)
GV'S (ATG) (UIP)
GAS LINE (UIP)
WV (UIP)
WV (ATG)
FH (UIP)
FH (TBR&RELOCBO)
BUY (TBR&RELOCBO)
P&LP (UIP)
SAN SEWER (UIP)
WATER LINE (UIP)
SIGN (TBRR)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
SEE RIGHT OF WAY PLAN SHEET NO. 11
EXIST. R/W
SLOPE LIMITS
BUSINESS SIGN (DND)
BOLLARDS (DND)
FLAG POLE (DND)
ROCK (TBR)
WM & WV (UIP)
LANDSCAPING (TBR)
OH POWER (UIP)
MH (UIP)
MULCH (TBR)
PLANTER BOX (TBRR)
GV (ATG)
P&LP (UIP)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED FO CABLE (METROLINK) (TBR&RELOCBO)
BURIED CABLE (AT&T) (TBR&RELOCBO)
BURIED CABLE (AT&T) (UIP)
BURIED CABLE (TBR&RELOCBO)
BURIED CABLE (AMEREN) (UIP)
GV'S (ATG) (UIP)
SAN MH'S (ATG)
SAN SEWER (UIP)
WATER LINE (UIP)
SIGN (TBRR)
PP (UIP)
INLET (UIP)
FH (TBR&RELOCBO)
BLDG FACE
FOR SALE SIGN (DND)
FENCE (TBR)
WALL (DND)
SEE RIGHT OF WAY PLAN SHEET NO. 13
MSD ESM'T.
10' MSD ESM'T.
10' WATER ESM'T.
10' SEWER ESM'T.
UNION ELEC. ESM'T.

PC STA 56+01.03

138' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 56+14.37 RT.

20' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 57+36.00 RT. (ASPHALT PV'MT TIE-IN)

CECELIA AVENUE
24' WIDE ASPHALT PV'MT @ 0.79%
STA. 55+07.75 RT. (ROUTE 100)
= STA. 70+00.00 (CECILIA AVE)

HELEN AVENUE
28' WIDE ASPHALT PV'MT @ 8.00%
STA. 58+70.82 RT. (ROUTE 100)
= STA. 80+00.00 (HELEN AVE)

(61) SEE RIGHT OF WAY PLAN SHEET 11

(74) G&M GLASS AND MIRROR, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(75) TESON LAND LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

CURVE 7 - ROUTE 100	
PI	57+39.61
PC	56+01.03
PT	58+77.72
Δ	8° 18' 00.0" (LT)
D	2° 59' 59.2"
L	276.69'
T	138.59'
R	1,910.00'

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SCALE
0 20 40 60

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 88
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 12 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\088_RW_12_J6S1718_120.dgn 11:00:31 AM 3/6/2020

① N 07°47'49"E - 17.93'
② N 07°47'49"E - 20.86'
③ S 07°47'49"W - 28.06'
④ S 07°47'49"W - 12.01'
⑤ N 84°38'54"W - 50.01'
⑥ S 84°38'54"E - 50.01'
⑦ S 84°38'54"E - 50.01'
⑧ N 84°38'54"W - 37.75'
⑨ S 84°38'54"E - 37.84'
⑩ S 84°43'03"E - 87.29' (TO STA. 64+45.00)

DISCLAIMER
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U.S. SURVEY NO. 1930

SCALE
0 20 40 60

(67) 8500 MANCHESTER, L.L.C. & LS INVESTMENTS I, L.L.C.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(66) SEE RIGHT OF WAY PLAN SHEET 12

(68) T AND C PROPERTIES, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(69) PIZZAZZ COMMERCIAL, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(76) MONTILEONE PROPERTIES, L.L.C.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(77) RUSSO'S DEVELOPMENT, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(78) BARTENURA HOLDINGS, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(79) MANCHESTER ROAD PROPERTIES, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(80) NORMAN J. KNIGHT
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(81) 8615 MANCHESTER, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTE:
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DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	89
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION / DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 13 OF 50

REV. •

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U.S. SURVEY NO. 1930

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

CURVE 8 – ROUTE 100

PI	64+95.91
PC	63+95.91
PT	65+95.91
Δ	1° 00′ 00.0″ (LT)
D	0° 30′ 00.0″
L	200.00′
R	11,458.87′

(69) SEE RIGHT OF WAY PLAN SHEET 13

(70) IDOWU AJIBOLA
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(71) MARY AVENUE & COMPANY LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(72) NORMAN B. WEST & MARY LOU WEST
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(73) MORICE ENTERPRISES, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(81) SEE RIGHT OF WAY PLAN SHEET 13

(82) CITY OF BRENTWOOD
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(83) THE CITY OF BRENTWOOD
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(84) SUBURBAN PARTNERS, L.P.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

MARY AVENUE
27.5′ WIDE ASPHALT PV'MT @ 1.52%
STA. 66+28.45 LT. (ROUTE 100) = STA. 105+00.00 (MARY AVE)

DOROTHY AVENUE
45′ WIDE ASPHALT PV'MT @ 0.66%
STA. 65+01.60 RT. (ROUTE 100) = STA. 95+00.00 (DOROTHY AVE)

VANMARK WAY (FORMERLY MARY AVENUE)
26′ WIDE ASPHALT PV'MT @ -0.42%
STA. 66+06.90 RT. (ROUTE 100) = STA. 100+00.00 (VAN MARK WAY)

℄ ROUTE 100
N 85° 38′ 54″ W

MATCHLINE STA. 64+00.00

MATCHLINE STA. 68+50.00

SEE RIGHT OF WAY PLAN SHEET NO. 15

SCALE
0 20 40 60

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

DATE PREPARED	
3/6/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	90
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DATE	DESCRIPTION
.	.

RIGHT OF WAY PLAN
ROUTE 100
SHEET 14 OF 50

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REV.

U.S. SURVEY NO. 1930

10' MSD ESM'T.

(73)

SEE RIGHT OF WAY PLAN SHEET 14
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

CERTIFIED LAND SURVEY TIE #3

Commencing at an Iron Pin in the southeast corner of adjacent Parcel 1 in Phuloc Center Boundary Adjustment Plat recorded in Book 357, Page 6 in St. Louis County Recorder of Deeds office (or along the northside of the Route 100 Right of Way Line in the southeast corner of Parcel 89) to Route 100 ℄ Sta. 68+60.70, S 04° 21' 06" W a distance of 29.96 feet in U.S. Survey 1930.

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

CURVE 9 – ROUTE 100

PI	71+98.46
PC	71+22.85
PT	72+73.98
Δ	4° 32' 00.0" (LT)
D	2° 59' 58.8"
L	151.13'
T	75.60'
R	1,910.08'

DISCLAIMER

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(85)

PFS PROPERTIES 2, LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(86)

FOUNTAINS AT 270 THE LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(89)

TRAN PROPERTIES, LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(90)

ST. LOUIS COUNTY CATHOLIC CHURCH REAL ESTATE
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

SEE RIGHT OF WAY PLAN SHEET NO. 14
STA. 68+60.70
℄ ROUTE 100

SEE RIGHT OF WAY PLAN SHEET NO. 16

CERTIFIED LAND SURVEY TIE #3

SEE RIGHT OF WAY PLAN SHEET NO. 14

20' SEWER ESM'T.

10' LACLEDE GAS & UNION ELEC. ESM'T.

10' UNION ELEC. ESM'T.

10' ROAD ESM'T. (VACATED)

NOTE:

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① N 05°48'02"E – 7.56'
② N 05°48'02"E – 0.55'
③ N 05°48'02"E – 7.47'
④ N 05°48'02"E – 1.42'
⑤ S 00°17'32"W – 4.00'
⑥ N 89°42'28"W – 31.79'
⑦ N 89°42'28"W – 31.29'
⑧ N 89°42'28"W – 8.32'
⑨ N 89°42'28"W – 7.82'
⑩ N 00°17'32"E – 4.00'
⑪ CURVE R=1940.08' & L=24.90'
CHORD N 85°20'07"W & L=24.90'
⑫ CURVE R=1945.08' & L=24.67'
CHORD S 85°19'51"E & L=24.67'
⑬ CURVE R=1940.08' L=10.02'
CHORD N 85°51'03"W & L=10.02'
⑭ CURVE R=1945.08' & L=21.30'
CHORD S 86°00'29"E & L=21.30'
⑮ N 07°40'25"E – 15.73'

SCALE
0 20 40 60

DATE PREPARED
3/6/2020
ROUTE 100 / STATE MO
DISTRICT SL / SHEET NO. 91
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001539

RIGHT OF WAY PLAN
ROUTE 100
SHEET 15 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\091_RW_15_J6S1718_120.dgn 11:13:36 AM 3/6/2020

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U.S. SURVEY NO. 1930

(87)
ST. LOUIS SOCIETY FOR THE BLIND
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(88)
MCW-RD BRENTWOOD PLAZA, LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(90)
SEE RIGHT OF WAY
PLAN SHEET 15

(92)
ERWIN F. SCHWARZ
REVOCABLE LIVING TRUST
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

POT STA 111+75.00
BRENTWOOD BOULEVARD
S 7° 50' 46" W
PI STA 110+06.35 (BRENTWOOD) = STA 77+25.91 (ROUTE 100)
PI STA 110+00.00 (BRENTWOOD) = STA 77+32.27 (ROUTE 100)
℄ ROUTE 100
ROT STA 108+00.00
MATCHLINE STA. 74+00.00
MATCHLINE STA. 79+00.00

N 89°30'03"W 47.03' (TO STA. 73+85.97)
S 89°42'28"E 47.79' (TO STA. 73+85.20)
22' COMMERCIAL ENT. CONC. APPROACH @ 4.00% STA. 74+16.00 LT. (CONCRETE PV'MT TIE-IN)
N 00°29'57"E 5.71'
S 89°42'28"E 83.00'
S 00°29'57"W 5.41'
EDGE OF PARKING LOT
LP (UIP)
TREE (DND)
SIGN (TBRR)
WATER LINE (UIP)
34' COMMERCIAL ENT. CONC. APPROACH @ 4.00% STA. 75+39.00 LT. (CONCRETE PV'MT TIE-IN)
N 89°30'03"W 129.00'
S 89°42'28"E 126.18'
TEMP. ESM'T. (CONST.)
EXIST. R/W
SLOPE LIMITS
CURVE R=45.00' & L=64.75'
CHORD N 49°04'09"E & L=59.31'
S 51°02'17"W 53.95'
BUSINESS SIGN (DND)
CURB (DND)
PP (UIP)
PB (UIP)
SIGN (DND)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED FO CABLE (METROLINK) (TBR&RELOCBO)
BUS STOP SIGN (TBRRBO)
BUS SHELTER (TBR&RELOCBO)
OH POWER (UIP)
SIGNAL POST (UIP)
BURIED POWER (UIP)
GV'S (ATG)
GAS LINE (UIP)
CONCRETE ISLAND (TBRR)
EXIST. SIDEWALK (UIP)
EXIST. R/W
10' ROADWAY & UTILITY ESM'T.
LANDSCAPING (DND)
S 27°08'02"E 48.44'
S 27°08'02"E 19.21'
N 89°22'03"W - 247.94' (TO STA. 80+63.00)
S 89°22'03"E - 238.99' (TO STA. 80+63.00)
TEMP. ESM'T. (CONST.)
EXIST. R/W
SLOPE LIMITS
TREE & LANDSCAPING (TBR)
BUSINESS SIGN (DND)
EDGE OF PARKING LOT
PROP. WALL (SMALL BLOCK) & PED. FENCE
BURIED TELE CABLE (UIP)
SAN MH (ATG)
SAN SEWER (UIP)
SIGNAL EQUIP. (UIP)
GUY (UIP)
SIGN (UIP)
WATER LINE (UIP)
OH POWER (UIP)
BURIED POWER LINES (UIP)
SEE RIGHT OF WAY PLAN SHEET NO. 15
PP (UIP) GUY (TBR& RELOCBO)
P&LP (UIP) GUY (TBR& RELOCBO)
GAS LINE (UIP) GV (ATG)
SIGN POST & CONC. BASE (TBRR)
P&LP (UIP) GUY (TBR&RELOCBO) FH (TBR&RELOCBO)
SIGNAL POST (UIP)
FENCE (TBRR)
BURIED CABLE (AT&T) (TBR& RELOCBO)
SLOPE LIMITS
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
12' COMMERCIAL ENT. CONC. APPROACH @ 9.00% STA. 75+76.00 RT. (CONCRETE PV'MT TIE-IN)
CONC. WALK (UIP)
STAIRS (UIP)
EXIST. WALL (UIP)
EXIST. R/W
4' SIDEWALK ESM'T.
EXIST. SIDEWALK (UIP)
BRENTWOOD BOULEVARD
S 7° 43' 47" W
CURVE R=40.00' & L=55.68'
CHORD N 49°37'04"W & L=51.29'
CURVE R=34.00' & L=33.08'
CHORD S 61°37'34"E & L=31.79'
CURVE R=95.00' & L=77.45'
CHORD S 67°16'38"W & L=75.32'
CURVE R=93.00' & L=48.71'
CHORD N 58°55'32"E & L=48.15'
CURVE R=95.00' & L=60.01'
CHORD S 25°49'33"W & L=59.02'
TRAFFIC SIGNAL ESM'T.
SIGNS (TBRR)
BURIED CABLE (AT&T) (TBR& RELOCBO)
SEE RIGHT OF WAY PLAN SHEET 17 FOR ENTRANCE NOTE
S 89°22'03"E - 51.30' (TO STA. 79+27.49)
S 89°22'03"E - 57.49' (TO STA. 79+27.49)
N 89°22'03"W 16.38'
S 89°22'03"E 42.00'
N 82°48'32"E 43.52'
N 00°37'57"E 7.00'
N 56°44'22"E 38.84'
S 46°04'41"E 5.00'
S 46°04'41"E 2.00'
S 82°09'14"E 5.00'
N 07°43'47"E 9.84'
N 07°43'47"E 2.15'
S 59°26'25"E 25.95'
S 33°45'04"E 22.72'
S 33°45'04"E 20.44'
S 07°43'47"W 7.94'
N 89°30'34"W 186.17'
S 89°30'03"E 218.27'
S 89°30'03"E 220.00'
N 00°29'57"E 5.00'
N 00°29'57"E 6.93'

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE
0 20 40 60

NOTE:
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DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	92
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6360
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 16 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\092_RW_16_J6S1718_120.dgn 11:14:42 AM 3/6/2020

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LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

CURVE 10 – ROUTE 100

PI	83+79.17
PC	83+29.17
PCC	84+29.17
Δ	1° 28′ 30.0″ (LT)
D	1° 28′ 30.0″
L	100.00′
T	50.00′
R	3,884.46′

U.S. SURVEY NO. 1930

SCALE 0 20 40 60

(88) SEE RIGHT OF WAY PLAN SHEET 16

(98) ASTI PROPERTIES, L.L.C.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

SEE RIGHT OF WAY PLAN SHEET NO. 16

SEE RIGHT OF WAY PLAN SHEET NO. 18

MATCHLINE STA. 79+00.00

MATCHLINE STA. 84+00.00

℄ ROUTE 100

(93) 8821 MANCHESTER, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(94) 8837 MANCHESTER, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(95) 8837 MANCHESTER, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(97) 615 DEVELOPMENT, L.L.C.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(105) TERRENCE R. O'BRIEN AND DANIEL E. BRASSIL AND PATRICK J. BRASSIL
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(92) SEE RIGHT OF WAY PLAN SHEET 16

① S 89°22′03″E – 25.58′
② S 00°37′57″W – 4.00′
③ S 89°22′03″E – 50.00′
④ N 00°37′57″E – 8.00′
⑤ S 89°22′03″E – 24.64′
⑥ N 00°51′04″W – 2.00′
⑦ N 00°51′04″W – 5.00′
⑧ N 02°22′37″W – 2.00′
⑨ N 02°22′37″W – 5.01′
⑩ S 02°22′37″E – 2.00′
⑪ S 02°22′37″E – 13.02′

DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	93
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 17 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\093_RW_17_J6S1718_I20.dgn 12:52:33 PM 3/6/2020

U.S. SURVEY NO. 1930

CURVE 11 – ROUTE 100	
PI	118+59.65
PCC	118+09.65
PT	119+09.65
Δ	1° 28′ 30.0″ (LT)
D	1° 28′ 30.0″
L	100.00′
T	50.00′
R	3,884.46′

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

DISCLAIMER

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(98)
SEE RIGHT OF WAY
PLAN SHEET 17

(99)
H. M. BOEGEMAN REALTY CO., AND
CREST DEVELOPMENT CO., AND
WAYCLIFFE DEVELOPMENT CORP.
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

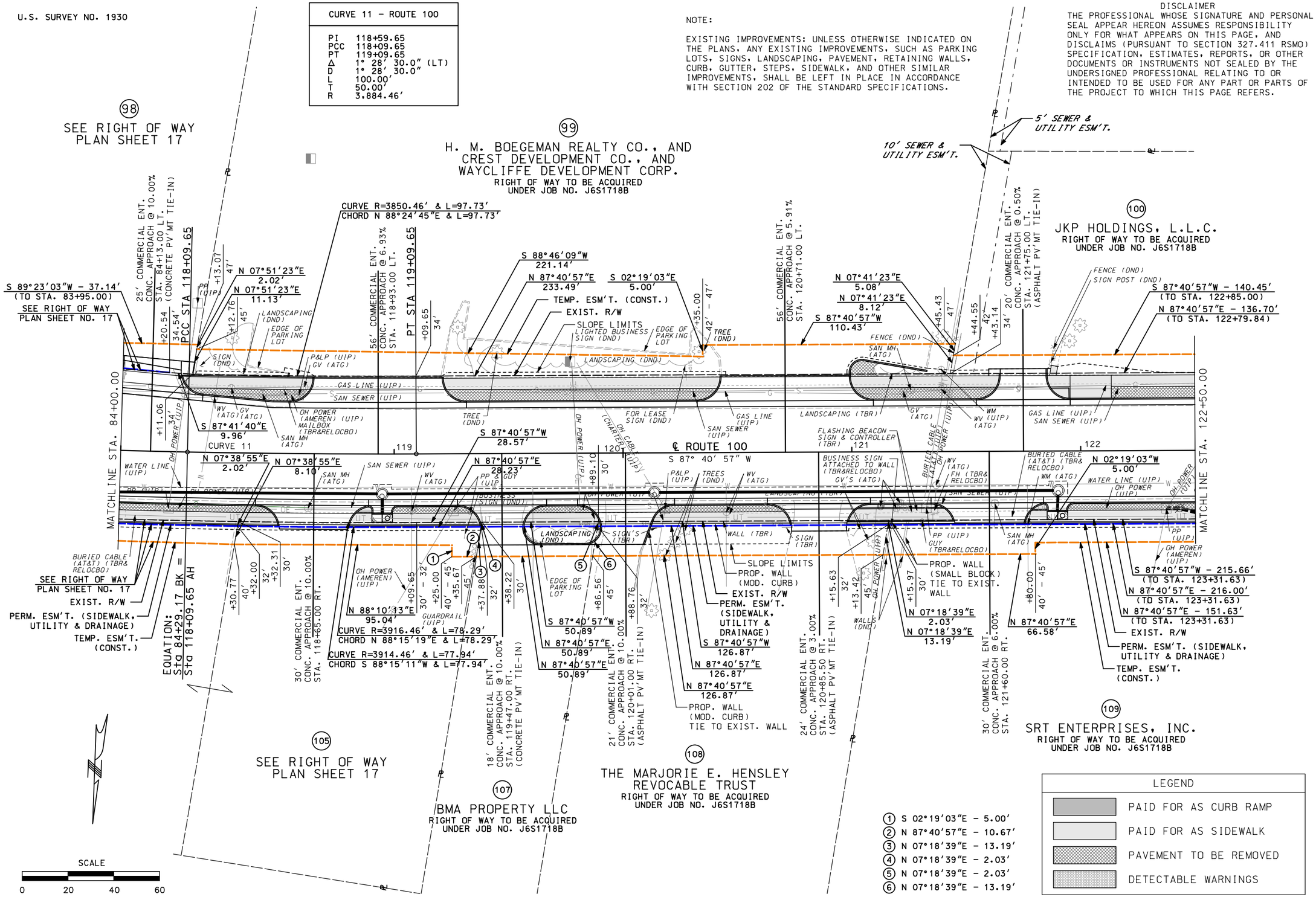
(100)
JKP HOLDINGS, L.L.C.
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(105)
SEE RIGHT OF WAY
PLAN SHEET 17

(107)
BMA PROPERTY LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(108)
THE MARJORIE E. HENSLEY
REVOCABLE TRUST
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B

(109)
SRT ENTERPRISES, INC.
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718B



① S 02°19′03″E – 5.00′
② N 87°40′57″E – 10.67′
③ N 07°18′39″E – 13.19′
④ N 07°18′39″E – 2.03′
⑤ N 07°18′39″E – 2.03′
⑥ N 07°18′39″E – 13.19′

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	94
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 2200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 18 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\094_RW_18_J6S1718_120.dgn 11:16:44 AM 3/6/2020

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DISCLAIMER

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① CURVE R=2894.79' & L=21.73'
CHORD S 87°28'03"W & L=21.73'

② CURVE R=2896.79' & L=21.39'
CHORD N 87°28'16"E & L=21.39'

③ CURVE R=2894.79' & L=75.11'
CHORD S 86°30'33"W & L=75.10'

④ CURVE R=2896.79' & L=75.51'
CHORD N 86°30'46"E & L=75.51'

⑤ S 85°45'57"W - 17.61'

⑥ N 85°45'57"E - 17.21'

⑦ N 07°18'39"E - 2.04'

⑧ N 07°18'39"E - 11.23'

⑨ N 07°18'39"E - 12.25'

⑩ N 85°45'57"E - 7.58'

⑪ N 04°14'03"W - 3.00'

⑫ S 07°18'39"W - 3.06'

⑬ N 07°18'39"E - 8.17'

⑭ N 07°18'39"E - 2.04'

⑮ S 85°45'57"W - 15.92'

⑯ N 85°45'57"E - 16.32'

⑰ CURVE R=628.91' & L=54.18'
CHORD S 83°17'52"W & L=54.17'

⑱ CURVE R=630.91' & L=55.39'
CHORD N 83°15'03"E & L=55.37'

⑲ N 06°30'01"W - 3.00'

⑳ S 36°28'11"E - 14.79'

㉑ S 36°28'11"E - 15.52'

㉒ S 36°28'11"E - 2.25'

㉓ CURVE R=628.91' & L=19.60'
CHORD S 79°56'13"W & L=19.59'

㉔ N 26°13'51"E - 19.75'

㉕ N 26°13'51"E - 9.00'

㉖ CURVE R=628.91' & L=31.16'
CHORD S 74°06'37"W & L=31.16'

㉗ CURVE R=10.00' & L=23.31'
CHORD N 40°32'21"W & L=18.38'

㉘ S 26°13'51"W - 25.18'

㉙ S 26°13'51"W - 21.02'

㉚ N 71°45'57"E - 10.00'

U.S. SURVEY NO. 1930

SCALE
0 20 40 60

(100) SEE RIGHT OF WAY PLAN SHEET 18

(101) HANGROVE FAMILY LIMITED PARTNERSHIP
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(102) JAG'S INVESTMENT LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(103) ASHICCA AUTO SERVICE, INC.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(109) SEE RIGHT OF WAY PLAN SHEET 18

(110) DEE & G PROPERTIES, INC.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(111) ONT HOLDINGS 9029, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(112) DRIVE-IN REALTY, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(113) CITY OF BRENTWOOD, MISSOURI
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(114) THE ROCK CHURCH OF SAINT LOUIS
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

MANDERLY DRIVE
37.5' WIDTH ASPHALT PV'MT @ 1.00%
S 2° 40' 01" E STA. 123+30.20 LT. (ROUTE 100)
= STA. 125+00.00 (MANDERLY DR)

CERTIFIED LAND SURVEY TIE #4

10' SEWER & UTILITY ESM'T.

SEE RIGHT OF WAY PLAN SHEET NO. 18

SEE RIGHT OF WAY PLAN SHEET NO. 20
SEE RIGHT OF WAY PLAN SHEET NO. 20 FOR ENTRANCE NOTE

PC STA 125+16.31

PT STA 124+27.47

PC STA 126+62.65

PT STA 127+13.40

MATCHLINE STA. 122+50.00

MATCHLINE STA. 127+50.00

CURVE R=25.00' & L=39.42'
CHORD N 42°30'28"E & L=35.46'
CURVE R=25.00' & L=39.55'
CHORD S 47°59'04"E & L=35.55'

CURVE R=2830.79' & L=46.06'
CHORD N 86°13'55"E & L=46.06'

CURVE R=564.91' & L=138.03'
CHORD N 78°45'57"E & L=137.69'

℄ ROUTE 100

STA. 123+57.60 ℄ ROUTE 100

HIGH SCHOOL DRIVE
23' WIDE CONCRETE PV'MT @ 0.50%
= STA. 126+29.49 RT. (HIGH SCHOOL DR)
= STA. 130+00.00 (HIGH SCHOOL DR)

HIGH SCHOOL DRIVE
23' WIDE CONCRETE PV'MT @ 0.50%
= STA. 127+19.53 RT. (ROUTE 100) (HIGH SCHOOL DR)
= STA. 135+00.00 (HIGH SCHOOL DR)

24' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 123+60.00 RT. (ASPHALT PV'MT TIE-IN)

24' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 124+31.00 RT. (ASPHALT PV'MT TIE-IN)

28' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 125+16.00 RT. (ASPHALT PV'MT TIE-IN)

65' COMMERCIAL ENT. CONC. APPROACH @ 6.00% STA. 124+27.50 LT.

15' COMMERCIAL ENT. CONC. APPROACH @ 1.40% STA. 124+81.00 LT.

185' COMMERCIAL ENT. CONC. APPROACH @ 3.60% STA. 126+08.50 LT.

NOTE:

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CURVE 12 - ROUTE 100	
PI	123+79.56
PC	123+31.63
PT	124+27.47
Δ	1° 55' 00.0" (LT)
D	2° 00' 00.0"
L	95.83'
T	47.92'
R	2,864.79'

CURVE 13 - ROUTE 100	
PI	125+89.85
PC	125+16.31
PT	126+62.65
Δ	14° 00' 00.0" (LT)
D	9° 34' 00.0"
L	146.34'
T	73.54'
R	598.91'

CERTIFIED LAND SURVEY TIE #4

Commencing at an Iron Pipe in the southeast corner of Lot 2 in Brentwood Office Condominiums Plat recorded in Book 358, Page 55 in St. Louis County Recorder of Deeds office (or south of the Route 100 Right of Way Line in the southeast corner of Parcel 101) to Route 100 & Sta. 123+57.60, N 02° 50' 13" W a distance of 125.69 feet in U.S. Survey 1930.

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 95
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY PLAN
ROUTE 100
SHEET 19 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\095_RW_19_J6S1718_I20.dgn 11:22:31 AM 3/6/2020

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(103)

SEE RIGHT OF WAY PLAN SHEET 19

S 70°33'57"W – 137.99'
(TO STA. 127+03.19)

CURVE R=2830.79' & L=128.16'
CHORD N 70°28'08"E & L=128.15'
(TO STA. 127+13.40)

120' COMMERCIAL ENT. CONC. APPROACH @ 8.58% STA. 127+79.00 LT. (ASPHALT PV'MT TIE-IN)

INGRESS/ EGRESS ESM'T.

10' SEWER ESM'T.

20' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 128+63.00 LT. (ASPHALT PV'MT TIE-IN)

CURVE R=2830.79' & L=40.65'
CHORD N 68°45'38"E & L=40.64'

S 67°21'08"W
40.66'

20' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 129+23.00 LT. (ASPHALT PV'MT TIE-IN)

SLOPE LIMITS
TEMP. ESM'T. (CONST.)
EXIST. R/W

S 68°20'57"W
183.70'
N 68°20'57"E
183.71'

30' COMMERCIAL ENT. CONC. APPROACH @ 8.00% STA. 130+65.00 LT. (ASPHALT PV'MT TIE-IN)

S 68°12'18"W
43.06'
N 68°12'18"E
42.94'

EXIST. R/W

BREMERTON ROAD
22' WIDE ASPHALT PV'MT @ 0.50%
STA. 131+35.37 LT. (ROUTE 100)
= STA. 140+18.04 (BREMERTON RD)

N 20°47'36"W
7.00'

S 20°47'36"E
5.00'
S 20°47'36"E
3.00'

EXIST. R/W

36' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 132+11.00 LT.

S 68°12'18"W – 134.37'
(TO STA. 132+95.42)
S 68°12'18"W – 147.96'
(TO STA. 133+08.91)
N 68°12'18"E – 148.01'
(TO STA. 133+08.91)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W

(104)

GENERAL EQUITIES CORPORATION
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718B

(115)

CWW INVESTORS, L.P.
444 S.F. PERM. ESM'T.
897 S.F. TEMP. ESM'T.
17,981 S.F. REMAINING

① S 21°47'42"E – 2.00'
② S 21°47'42"E – 5.00'
③ N 68°12'18"E – 8.28'
④ N 68°12'18"E – 2.72'
⑤ S 68°12'18"W – 2.74'
⑥ N 21°47'42"W – 10.00'

U.S. SURVEY NO. 1930

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

BLDG FACE
FENCE (DND)
WM (ATG)
GAS LINE (UIP)
BUSINESS SIGN (DND)
FLASHING BEACON, SIGN & CONTROLLER (TBR)
LP (TBR& RELOCBO)
WM & WV (ATG)
GAS LINE (UIP)
PLANTERS (DND) (TYP)
EDGE OF PARKING LOT
GV (UIP)
SAN SEWER (UIP)
GAS LINE (UIP)
SIGNS (TBRR)
GV (ATG)
BUSINESS SIGN (DND)
BUS STOP SIGN (TBRRBO)
EDGE OF PARKING LOT
38' OH POWER (UIP)
PP (UIP)
SAN MH (ATG)
LP (TBR& RELOCBO)
BURIED CABLE (AT&T) (UIP)
GAS LINE (UIP)
WATER LINE (UIP)
SAN SEWER (UIP)
OH POWER (TBR&RELOCBO)

MATCHLINE STA. 127+50.00

S 21°43'28"E
6.00'

128 CURVE 14 129 ℄ ROUTE 100 S 68° 20' 57" W 130

PT STA 128+84.23

PI STA 130+67.98

131 S 68° 12' 18" W 132

MATCHLINE STA. 132+50.00

S 07°56'28"W
3.46'
S 07°56'28"W
45.06'

S 21°55'06"E
5.00'
N 21°55'06"W
10.00'

N 68°12'18"E – 50.00'
(TO STA. 132+71.29)
S 68°12'18"W – 50.00'
(TO STA. 132+71.26)

WATER LINE (UIP)
SAN SEWER (UIP)
OH POWER (UIP)
P&LP (UIP)
BUSINESS SIGN (DND)
BUS STOP SIGN (TBRRBO)
BURIED CABLE (AT&T) (TBR& RELOCBO)
GUY (UIP)
OH POWER (TBR&RELOCBO)
PP (TBR& RELOCBO)
WV (ATG)
FH (TBR& RELOCBO)
SAN MH (ATG)
SIGNS (TBRR)
INLET (TBR)
BUSINESS SIGN (DND)
P&LP (TBR& RELOCBO)
WV (UIP)
WATER LINE (UIP)
WM (UIP)
TREE EDGE OF PARKING LOT (TBR)
TREE (TBR)
TREE (DND)
BURIED CABLE (AT&T) (TBR& RELOCBO)
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
ROAD ESM'T.
EDGE OF PARKING LOT
BURIED TELE CABLES (TBR& RELOCBO)
GUY (TBR& RELOCBO)
PP (TBR& RELOCBO)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
WATER LINE (UIP)
BURIED CABLE (AT&T) (TBR& RELOCBO)
SAN SEWER (UIP)

CURVE R=2894.79' & L=167.89'
CHORD S 70°00'39"W & L=167.87'
(TO STA. 137+18.08)
CURVE R=2909.79' & L=173.52'
CHORD N 70°03'27"E & L=173.49'
(TO STA. 137+13.40)

N 69°31'33"E
183.71'
(TO STA. 137+03.53)

25' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 128+16.00 RT. (ASPHALT PV'MT TIE-IN)

S 68°20'57"W
193.00'
N 68°20'57"E
184.48'
N 68°20'57"E
166.77'

S 51°35'06"E
15.00'

N 07°56'28"E
17.25'
N 07°56'28"E
20.70'

N 07°56'28"E
45.61'
S 82°03'32"E
5.00'

N 68°12'18"E
48.03'
N 68°12'18"E
41.48'
N 68°12'18"E
36.87'

S 68°12'18"W
47.26'
N 68°12'18"E
50.00'

50' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 131+96.50 RT. (ASPHALT PV'MT TIE-IN)

50' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 132+46.50 RT. (ASPHALT PV'MT TIE-IN)

N 21°55'06"W
15.00'

(114)

SEE RIGHT OF WAY PLAN SHEET 19

EXIST. R/W
BREMERTON ROAD
23' WIDE ASPHALT PV'MT @ 3.50%
STA. 131+17.33 RT. (ROUTE 100)
= STA. 140+00.00 (BREMERTON RD)
SAN SEWER (UIP)
GAS LINE (UIP)
OH POWER (TBR&RELOCBO)
PP (UIP)
EXIST. R/W

(125)

F&B HOLDINGS, LLC
205 S.F. PERM. ESM'T.
305 S.F. TEMP. ESM'T.
13,656 S.F. REMAINING

(126)

S.I.S., L.L.C. OF MISSOURI
27 S.F. PERM. ESM'T.
723 S.F. TEMP. ESM'T.
7,500 S.F. REMAINING

(127)

CHRISTOPHER STEGER AND KIMBERLY STEGER
750 S.F. TEMP. ESM'T.
7,500 S.F. REMAINING

SCALE
0 20 40 60

CURVE 14 – ROUTE 100	
PI	127+98.84
PC	127+13.40
PT	128+84.23
Δ	3° 25' 00.0" (LT)
D	2° 00' 00.0"
L	170.83'
T	85.44'
R	2,864.79'

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 96
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 20 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\096_RW_20_J6S1718_120.dgn 11:23:49 AM 3/6/2020

LEGEND
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

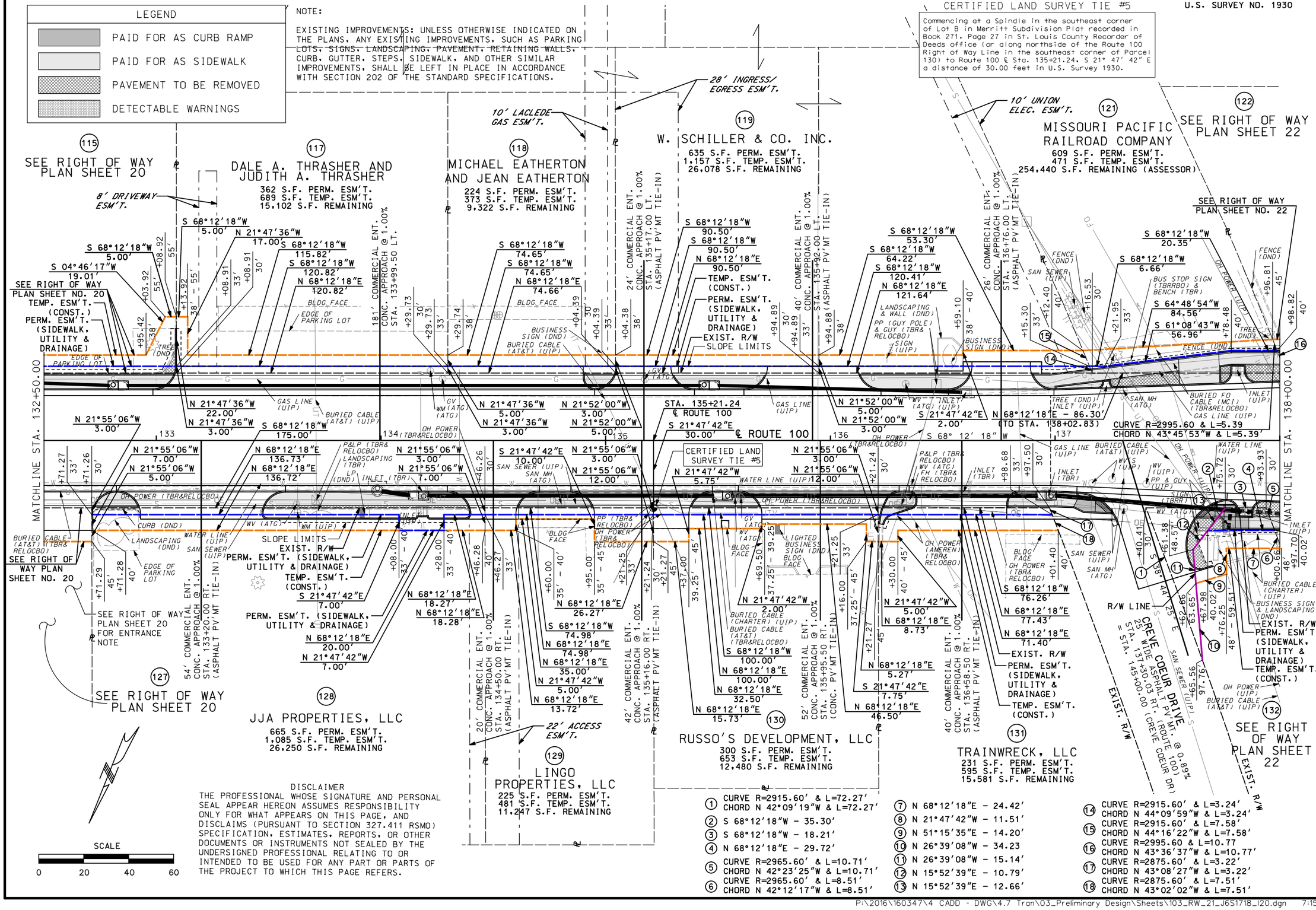
NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

CERTIFIED LAND SURVEY TIE #5

Commencing at a Spindle in the southeast corner of Lot B in Merritt Subdivision Plat recorded in Book 271, Page 27 in St. Louis County Recorder of Deeds office (or along northside of the Route 100 Right of Way Line in the southeast corner of Parcel 130) to Route 100 ℄ Sta. 135+21.24, S 21° 47' 42" E a distance of 30.00 feet in U.S. Survey 1930.

U.S. SURVEY NO. 1930



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SCALE

0 20 40 60

① CURVE R=2915.60' & L=72.27'
CHORD N 42°09'19"W & L=72.27'
② S 68°12'18"W - 35.30'
③ S 68°12'18"W - 18.21'
④ N 68°12'18"E - 29.72'
⑤ CURVE R=2965.60' & L=10.71'
CHORD N 42°23'25"W & L=10.71'
⑥ CURVE R=2965.60' & L=8.51'
CHORD N 42°12'17"W & L=8.51'
⑦ N 68°12'18"E - 24.42'
⑧ N 21°47'42"W - 11.51'
⑨ N 51°15'35"E - 14.20'
⑩ N 26°39'08"W - 34.23
⑪ N 26°39'08"W - 15.14'
⑫ N 15°52'39"E - 10.79'
⑬ N 15°52'39"E - 12.66'
⑭ CURVE R=2915.60' & L=3.24'
CHORD N 44°09'59"W & L=3.24'
⑮ CURVE R=2915.60' & L=7.58'
CHORD N 44°16'22"W & L=7.58'
⑯ CURVE R=2995.60 & L=10.77
CHORD N 43°36'37"W & L=10.77'
⑰ CURVE R=2875.60' & L=3.22'
CHORD N 43°08'27"W & L=3.22'
⑱ CURVE R=2875.60' & L=7.51'
CHORD N 43°02'02"W & L=7.51'

DATE PREPARED
3/6/2020
ROUTE: 100 — STATE: MO
DISTRICT: SL — SHEET NO.: 97
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 21 OF 50

REV.

U.S. SURVEY NO. 1930

NOTE:

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CURVE 15 – ROUTE 100	
PI	141+29.98
PC	140+29.98
PT	142+29.98
Δ	2° 30′ 00.0″ (LT)
D	1° 14′ 59.9″
L	200.00′
T	100.02′
R	4,583.75′

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

✳ REHAB BRIDGE A4844

(122) R&R INVESTMENT HOLDING, LLC
722 S.F. TEMP. ESM'T.
9,498 S.F. REMAINING

(123) MILLMAN LUMBER COMPANY
2,273 S.F. TEMP. ESM'T.
249,599 S.F. REMAINING (ASSESSOR)

(132) TRAINWRECK, LLC
794 S.F. NORMAL R/W
240 S.F. PERM. ESM'T
468 S.F. TEMP. ESM'T.
7,155 S.F. REMAINING

(133) MILLMAN LUMBER COMPANY
2,094 S.F. TEMP. ESM'T.
155,122 S.F. REMAINING

(134) ROCK HILL INDUSTRIAL COURT TRUSTEES
398 S.F. TEMP. ESM'T.
92,347 S.F. REMAINING (ASSESSOR)

(135) CAROL CLOBES FROESEL
249 S.F. TEMP. ESM'T.
16,824 S.F. REMAINING

RONALD D. FROESEL TRUSTEE ET AL.
NO TAKING

ROCK HILL INDUSTRIAL COURT
53.5' WIDE ASPHALT PV'MT. @ 0.50% S 21° 49′ 25″ E
STA. 140+77.98 RT. (ROUTE 100)
= STA. 150+00.00 (ROCK HILL INDUST)

MATCHLINE STA. 138+00.00

MATCHLINE STA. 142+50.00

PI STA 138+49.55

PC STA 140+29.98

PT STA 142+29.98

℄ ROUTE 100

CURVE 15

EXIST. R/W

SLOPE LIMITS

EXIST. BRIDGE DECK (UIP)✳

SEE RIGHT OF WAY PLAN SHEET NO. 21

INGRESS/ EGRESS ESM'T.

10′ MSD ESM'T.

TEMP. ESM'T. (CONST.)

EXIST. R/W

BLDG FACE

FENCE (DND)

EDGE OF PARKING LOT

BUSINESS SIGN (DND)

TREE (DND)

INLET (UIP)

SAN MH (ATG)

GAS LINE (UIP)

SAN SEWER (UIP)

BURIED FO CABLE (MCI) (TBR&RELOCBO)

BURIED CABLE (AT&T) (UIP)

WATER LINE (UIP)

OH POWER (TBR&RELOCBO)

WV'S (UIP)

MH (ATG)

BURIED CABLE (CHARTER) (UIP)

P&LP (TBR&RELOCBO)

FENCE (TBRR)

FENCE (UIP)

LANDSCAPING (DND)

PP (UIP)

GUY'S (UIP)

BUS STOP SIGN (TBRRBO) & BENCH (TBR)

FH (UIP)

WV (ATG)

GV (ATG)

WV (UIP)

SIGN (TBRR)

FLAG POLES & LANDSCAPING (DND)

GUARDRAIL (TBR)

BURIED CABLE (AT&T) (UIP)

BURIED CABLE (CHARTER) (UIP)

PP (UIP)

INLET (UIP)

SAN MH (UIP)

GAS LINE (UIP)

SAN SEWER (UIP)

BURIED FO CABLE (MCI) (TBR&RELOCBO)

S 10°41′18″W 27.27′

S 68°12′18″W – 43.52′ (TO STA. 137+96.81)

N 68°12′18″E – 50.71′ (TO STA. 137+98.82)

S 68°10′47″W 6.44′

N 68°10′47″E 18.14′

N 34°23′54″W 28.69′

S 83°21′14″W 42.02′

S 52°48′17″W 20.74′

N 21°49′13″W 12.00′

S 68°10′47″W 68.00′

N 68°10′47″E 162.29′

S 68°10′47″W 28.00′

S 83°35′43″W 20.66′

CURVE R=4543.75′ & L=86.19′
CHORD N 67°38′11″E & L=86.19′

S 67°21′55″W 113.17′

N 58°45′02″E 35.39′

S 24°11′58″E 10.00′

S 58°45′02″W 77.49′

S 65°40′47″W – 70.25′ (TO STA. 143+00.25)

N 68°10′47″E 262.34′

S 68°10′47″W –232.30′ (TO STA. 137+97.70)

N 21°49′25″W 8.00′

N 67°27′44″E 50.00′

N 21°49′25″W 5.00′

N 21°49′25″W 3.00′

N 66°45′00″E 64.98′

S 76°29′51″W 28.87′

N 76°29′51″E 54.96′

N 65°40′47″E –124.12′ (TO STA. 143+54.10)

CURVE R=4623.75′ & L=33.00′
CHORD S 67°58′31″W & L=33.00′

CURVE R=4623.75′ & L=50.00′
CHORD S 67°27′39″W & L=50.00′

CURVE R=4623.75′ & L=36.40′
CHORD S 66°55′32″W & L=36.40′

S 68° 10′ 47″ W

138+76.50 LT. (ASPHALT PV'MT TIE-IN)

29′ COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 138+70.00 RT. (ASPHALT PV'MT TIE-IN)

33′ COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 140+04.00 LT. (ASPHALT PV'MT TIE-IN)

38′ COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 140+04.00 LT. (ASPHALT PV'MT TIE-IN)

28′ COMMERCIAL ENT. CONC. APPROACH @ 0.30% STA. 140+83.00 LT.

26′ COMMERCIAL ENT. CONC. APPROACH @ 0.30% STA. 141+72.50 LT. (ASPHALT PV'MT TIE-IN)

44′ COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 141+59.00 LT.

30′ UNION ELECTRIC, ST. LOUIS CO. WATER & INGRESS/EGRESS ESM'T.

50′ ESM'T. FOR ELECTRIC, WATER & SEWER SERVICES

SCALE 0 20 40 60

DATE PREPARED	
3/6/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	98
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION

DATE

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 22 OF 50

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\104_RW_22_J6S1718_120.dgn 7:12:30 AM 3/6/2020

CURVE 16 – ROUTE 100	
PI	144+54.14
PC	143+54.10
PT	145+54.11
Δ	3° 21′ 00.0″ (LT)
D	1° 40′ 29.6″
L	200.01′
T	100.03′
R	3,420.85′

U.S. SURVEY NO. 1930

10′ SEWER ESM'T.

(123) SEE RIGHT OF WAY PLAN SHEET 22

✳ REHAB BRIDGE | A4844

SEE RIGHT OF WAY PLAN SHEET NO. 22

(124) GBC ENTERPRISES, L.L.C.
NO TAKING

(139) THEISS PLATING CORPORATION
83 S.F. PERM. ESM'T.
275 S.F. TEMP. ESM'T.
8,314 S.F. REMAINING

(140) THE MANCHESTER PROFESSIONAL BUILDING, L.L.C.
1,151 S.F. TEMP. ESM'T.
12,269 S.F. REMAINING

(141) SEE RIGHT OF WAY PLAN SHEET 24

SEE RIGHT OF WAY PLAN SHEET 24 FOR ENTRANCE NOTE

(135) SEE RIGHT OF WAY PLAN SHEET 22

(137) STANFORD COURT APARTMENTS, L.L.C.
245 S.F. NORMAL R/W
12,631 S.F. REMAINING

(147) STANFORD COURT APTS LLC
MILLS PROPERTIES LLC
356 S.F. NORMAL R/W
1,782 S.F. PERM. ESM'T.
1,701 S.F. TEMP. ESM'T.
73,370 S.F. REMAINING

RARITAN DRIVE
27′ WIDE ASPHALT PV'MT @ 0.11%
STA. 146+36.27 LT. (ROUTE 100)
= STA. 160+00.00 (RARITAN DR)

RARITAN DRIVE
30′ WIDE CONCRETE PV'MT @ 5.00%
STA. 143+93.25 RT. (ROUTE 100)
= STA. 155+00.00 (RARITAN DR)

36′ COMMERCIAL ENT. CONC. APPROACH @ -9.5% STA. 144+16.00 LT.

43′ COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 146+90.00 LT. (ASPHALT PV'MT TIE-IN)

32.5′ COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 145+87.00 RT. (ASPHALT PV'MT TIE-IN)

MATCHLINE STA. 142+50.00

MATCHLINE STA. 147+50.00

PT STA 145+54.11

PC STA 143+54.10

CURVE 16 ℄ ROUTE 100

CURVE R=3380.85′ & L=8.68′
CHORD N 62°24′12″E & L=8.68′

CURVE R=3475.85′ & L=14.53′
CHORD N 65°33′36″E & L=14.53′

CURVE R=3460.85′ & L=124.25′
CHORD S 63°14′33″W & L=124.24′

EXIST. R/W

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T. (CONST.)

SLOPE LIMITS

R/W LINE

LACLEDE GAS ESM'T.

MSD ESM'T.

DRAINAGE ESM'T. (MoDOT)

EXIST. BRIDGE DECK (UIP)✳

STANFORD PLACE SIGN NON-LIGHTED (TBR&RELOCBO)

BUSINESS SIGN & LANDSCAPING (DND)

WALLS (DND)

BLDG FACE

EDGE OF PARKING LOT

STAIRS & SIDEWALK (DND)

WALL (DND)

LANDSCAPING (TBR)

PROP. WALL (MOD. CURB)

SIGN (TBRR)

PORTION OF WALL (TBR)

BUS STOP SIGN (TBRBO)

GUY (TBR& RELOCBO)

PP (UIP)

PP (GUY POLE) & GUY (TBR&RELOCBO)

OH POWER (UIP)

WATER LINE (UIP)

SAN SEWER (UIP)

SAN MH (UIP) WM (UIP) WV (ATG)

SAN MH (ATG)

GAS LINE (UIP)

BURIED FO CABLE (MCI) (TBR&RELOCBO)

BURIED CABLE (AT&T) (UIP)

BURIED TELE CABLE (UIP)

BURIED FO CABLE (MCI) (UIP)

INLET (ATG) INLET (UIP) INLET (TBR)

INLETS (UIP)

WV (ATG)

MH (ATG) WV & WM (ATG)

GV (ATG)

P&LP (UIP)

LP (TBR& RELOC)

FH (UIP)

S 65° 40′ 47″ W

S 62° 19′ 47″ W

N 35°37′30″W 5.05′

S 54°22′30″W 5.00′

S 35°37′30″E 11.27′

S 35°37′30″E 5.05′

N 35°37′30″W 17.01′

S 62°19′47″W 77.72′

N 62°19′47″E 75.68′

N 27°52′19″W 15.00′

S 27°52′19″E 5.00′

N 62°19′47″E 46.27′

S 62°20′36″W 54.95′

N 62°19′47″E 5.05′

S 35°37′30″E 15.15′

N 17°19′47″E 7.07′

N 17°19′47″E 11.31′

N 62°19′47″E 11.89′

S 27°40′17″E 20.00′

N 62°19′47″E 50.00′

N 17°31′44″E 13.69′

N 64°40′46″E 17.76′

N 27°40′19″W 5.01′

S 27°40′19″E 5.00′

N 63°17′58″E 130.93′

S 62°19′47″W – 220.11′ (TO STA. 148+31.21)

N 62°19′47″E – 195.75′ (TO STA. 148+31.75)

N 62°19′47″E – 201.14′ (TO STA. 148+32.14)

① S 24°35′10″E – 27.58′
② S 67°14′41″W – 11.60′
③ CURVE R=141.77′ & L=27.60′ CHORD N 15°22′18″W & L=27.56′
④ N 65°22′52″E – 7.18′
⑤ CURVE R=111.77′ & L=26.63′ CHORD S 13°03′10″E & L=26.57′
⑥ S 67°14′41″W – 9.52′
⑦ N 25°27′05″W – 10.54′
⑧ CURVE R=3460.85′ & L=18.37′ CHORD S 64°25′23″W & L=18.37′
⑨ N 40°28′55″E – 36.78′

LEGEND	
	PAID FOR AS CURB RAMP
	PAID FOR AS SIDEWALK
	PAVEMENT TO BE REMOVED
	DETECTABLE WARNINGS

SCALE 0 20 40 60

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DATE PREPARED	
3/6/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	99
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY PLAN
ROUTE 100
SHEET 23 OF 50

REV.

U.S. SURVEY NO. 1930

CURVE 17 – ROUTE 100	
PI	151+84.09
PC	151+34.25
PT	152+33.58
Δ	11° 52′ 16.6″ (RT)
D	11° 57′ 02.9″
L	99.33′
T	49.85′
R	479.43′

(141) LINGO 9330, L.L.C.
24 S.F. PERM. ESM'T.
1,982 S.F. TEMP. ESM'T.
14,903 S.F. REMAINING

(142) EBY GROUP HOLDINGS, LLC
32 S.F. PERM. ESM'T.
2,042 S.F. TEMP. ESM'T.
20,233 S.F. REMAINING

(143) GRATEFUL, LLC
78 S.F. PERM. ESM'T.
1,668 S.F. TEMP. ESM'T.
15,279 S.F. REMAINING

(144) NOVUS CRESTWOOD LLC
243 S.F. PERM. ESM'T.
1,899 S.F. TEMP. ESM'T.
122,366 S.F. REMAINING

(147) SEE RIGHT OF WAY PLAN SHEET 23

(149) R V PROPERTIES, LLC
1,085 S.F. PERM. ESM'T.
775 S.F. TEMP. ESM'T.
30,725 S.F. REMAINING

(150) RJCA, LLC
81 S.F. PERM. ESM'T.
347 S.F. TEMP. ESM'T.
51,352 S.F. REMAINING

DUNKIRK DRIVE
28.5' WIDE ASPHALT PV'MT
STA. 148+62.73 LT. (ROUTE 100)
= STA. 165+00.00 (DUNKIRK DR)

EXIST. R/W

86' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 147+80.50 LT. (ASPHALT PV'MT TIE-IN)

118' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 149+69.00 LT. (ASPHALT PV'MT TIE-IN)

86' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 150+82.21 LT. (ASPHALT PV'MT TIE-IN)

36' COMMERCIAL ENT. CONC. APPROACH @ 0.29% STA. 151+57.00 LT. (ASPHALT PV'MT TIE-IN)

24' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 148+66.00 RT.

26' COMMERCIAL ENT. CONC. APPROACH @ 7.50% STA. 149+47.00 RT. (CONC. PV'MT TIE-IN)

30' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 150+37.00 RT. (CONC. PV'MT TIE-IN)

℄ ROUTE 100

STA. 149+86.97

PC STA 151+34.25

CURVE 17

PT STA 152+33.58

MATCHLINE STA. 147+50.00

MATCHLINE STA. 152+50.00

SEE RIGHT OF WAY PLAN SHEET NO. 23

SLOPE LIMITS

EXIST. R/W

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

PROP. WALL (MOD. CURB) TIE TO EXIST. WALL

REMOVE WALL & RECONSTRUCT AT BACK OF SIDEWALK TIE TO EXIST. WALL

REMOVE PORTION OF WALL & RECONSTRUCT

5′ UTIL. & SEWER ESM'T.

10′ UTIL. & SEWER ESM'T.

EXIST. SIDEWALK (UIP)

EXIST. CURB & GUTTER (UIP)

CURVE R=434.39′ & L=80.24′
CHORD N 69°17′04″E & L=80.13′

CERTIFIED LAND SURVEY TIE #6

CERTIFIED LAND SURVEY TIE #6

Commencing at a Concrete R/W marker in the southeast corner of Lot 1 in U-Gas Rockhill Plat recorded in Book 360, Page 23 in St. Louis County Recorder of Deeds office (or along northside of the Route 100 Right of Way Line in the southeast corner of Parcel 150) to Route 100 ℄ Sta. 149+86.97, S 27° 40′ 13″ E a distance of 39.26 feet in U.S. Survey 1930.

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

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SCALE
0 20 40 60

DESCRIPTION | DATE | REV.

DATE PREPARED 3/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 100
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 24 OF 50

LEGEND
PAID FOR AS CURB RAMP
PAID FOR AS SIDEWALK
PAVEMENT TO BE REMOVED
DETECTABLE WARNINGS

U.S. SURVEY NO. 1930

(144)
SEE RIGHT OF WAY
PLAN SHEET 24

(146)
MARKET AT McKNIGHT I, LLC
13,964 S.F. PERM. ESM'T.
608,474 S.F. REMAINING

(151)
MISSOURI CVS PHARMACY LLC
143 S.F. TEMP. ESM'T.
3,657 S.F. PERM. ESM'T.
96,106 S.F. REMAINING

(150)
SEE RIGHT OF WAY
PLAN SHEET 24

(152)
SEE RIGHT OF WAY
PLAN SHEET 26

NORTH ROCK HILL ROAD
S 8° 01' 29" W

ROCK HILL ROAD (64' WIDTH)
STA. 154+10.61 LT. (ROUTE 100)
= STA. 170+05.52 (ROCK HILL RD)

MCKNIGHT ROAD
S 7° 51' 50" W

MCKNIGHT ROAD (62' WIDTH)
CONC. PV'MT W/ ASPH. OVERLAY @ 1.50%
STA. 154+05.08 RT. (ROUTE 100) (MCKNIGHT RD)
= STA. 170+00.00 (MCKNIGHT RD)

℄ ROUTE 100

MATCHLINE STA. 152+50.00

MATCHLINE STA. 157+50.00

PI STA 170+05.52 (ROCK HILL RD)
= STA 154+10.61 (ROUTE 100)

PI STA 170+00.00 (MCKNIGHT RD)
= STA 154+05.08 (ROUTE 100)

CURVE R=109.00' & L=36.84'
CHORD N 04°35'07"W & L=36.66'

CURVE R=109.00'
& L=13.93'
CHORD S 17°55'42"E
& L=13.92'

CURVE R=45.00' & L=51.97'
CHORD N 41°06'47"E & L=49.13'

CURVE R=39.00' & L=57.32'
CHORD S 63°41'38"E & L=52.30'

CURVE R=53.82' & L=62.78'
CHORD S 40°46'53"W & L=59.28'

CURVE R=65.00' & L=75.83'
CHORD N 40°46'53"E & L=71.60'

CURVE R=22.95' & L=20.04'
CHORD S 40°17'43"E & L=19.41'

TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

PERM. ESM'T. (SIDEWALK)

TEMP. ESM'T. (CONST.)

10' ESM'T.

5' SLOPE ESM'T.

10' UTIL. & SEWER ESM'T.

5' WALL ESM'T.

SLOPE LIMITS

EDGE OF PARKING LOT

EDGE OF CONC. PATIO (DND)

EXIST. R/W

EXIST. CURB & GUTTER (UIP)

EXIST. SIDEWALK (UIP)

EXIST. CONC. PV'MT. (UIP)

EXIST. COMMERCIAL ENT.
STA. 157+15.50 RT.
CONC. ENTRANCE (UIP)

BUILDING FACE (DND)

LANDSCAPING & TREES (DND)

LANDSCAPING, WALL & MONUMENT (DND)

LANDSCAPING (DND)

BUSINESS SIGN (DND)

WALL (DND)

N 74°12'04"E - 710.30'
(TO STA. 162+54.75)

S 74°12'04"W - 292.32'
(TO STA. 159+17.32)

S 74°12'04"W
163.97'
(TO STA. 157+63.22)

N 74°12'04"E
60.00'

N 74°12'04"E
64.00'
(TO STA. 157+53.09)

S 74°12'04"W
87.27'

S 74°12'04"W
85.36'

N 74°12'04"E
84.03'

S 75°43'57"W
13.96'

N 26°09'19"W
21.65'

N 65°58'37"W
19.21'

S 15°47'56"E
6.50'

N 61°32'48"E
19.23'

N 61°32'48"E
6.85'

S 61°32'48"W
50.21'

N 61°32'48"E
28.70'

N 61°32'48"E
28.70'

S 68°30'36"E
20.06'

S 68°46'25"E
38.05'

S 28°27'12"E
5.00'

N 28°27'12"W
5.00'

S 08°01'29"W
8.38'

S 08°01'29"W
6.88'

S 41°06'47"W
46.16'

S 41°06'47"W
49.13'

N 82°08'10"W
5.00'

N 74°34'34"E
24.55'

N 74°34'34"E
8.86'

N 37°08'10"W
9.02'

S 7°21'42"W
14.99'

N 07°51'50"E
10.05'

N 07°51'50"E
5.55'

SEE RIGHT OF WAY
PLAN SHEET NO. 24

SEE RIGHT OF WAY
PLAN SHEET NO. 24

BURIED FO CABLE (MCI) (UIP)

BURIED FO CABLE (MODOT) (UIP)

BURIED CABLE (AT&T) (UIP)

BURIED POWER (UIP)

BURIED TELE CABLE (UIP)

BURIED POWER (TBA)

BURIED CABLE (AT&T) (TBA)

OH POWER (UIP)

OH CABLE (AT&T) (UIP)

OH CABLE (CHARTER) (UIP)

GAS LINE (UIP)

SAN SEWER (UIP)

WATER LINE (UIP)

CONCRETE ISLAND (TBRR)

CONCRETE ISLAND (UIP)

SIGNAL POST (TBR)

SIGNAL POST (UIP)

SIGNAL EQUIP. (UIP)

PB (TBR)

PB (UIP)

PB (AT&T) (UIP)

PB'S (UIP)

PP (UIP)

PP & GUYS (UIP)

PP & GUY (UIP)

LP (UIP)

INLET (UIP)

INLET (TBR)

MH (ATG)

MH (UIP)

SAN MH (ATG)

WM (ATG)

WV (ATG)

P&LP (UIP)

FH (TBR&RELOCBO)

GV (ATG)

GV (UIP)

GV'S (UIP)

GUY (TBR& RELOCBO)

GUY'S (UIP)

SIGN (UIP)

SIGN (TBRR)

SIGNS (TBRR)

BUS STOP SIGN (TBRBO)

TREE (DND)

TREES (DND)

TREE (DND) (UIP)

TREE (DND) (ATG)

BUILDING FACE (DND)

BUILDING FACE (UIP)

+13.91
+22.77
+47.33
+47.38
+89.41
+19.79
+22.02
+26.05
+54.78
+53.30
+95.95
+91.97
+94.75
+75.49
+99.33
+73.49
+05.12
+05.64
+81.07
+64.91
+69.29
+09.53
+87.43
+15.42
+73.65
+64.99
+55.79
+70.08
+22.98
+73.30
+37.73
+44.44
+50.26
+53.32
+60.00
+46.50
+61.10
+51.38
+89.10
+45.09
+88.00
+40.21
+06.77
+89.25
+66.77
+89.09
+25.00
+12.25
+19.08
+22.98

39'
44'
47.41'
41'
48'
41'
36'
53'
30'
36'
61'
46'
94.98'
81.07'
94.60'
73.30'
54.50' - 61'
130.94'

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SCALE
0 20 40 60

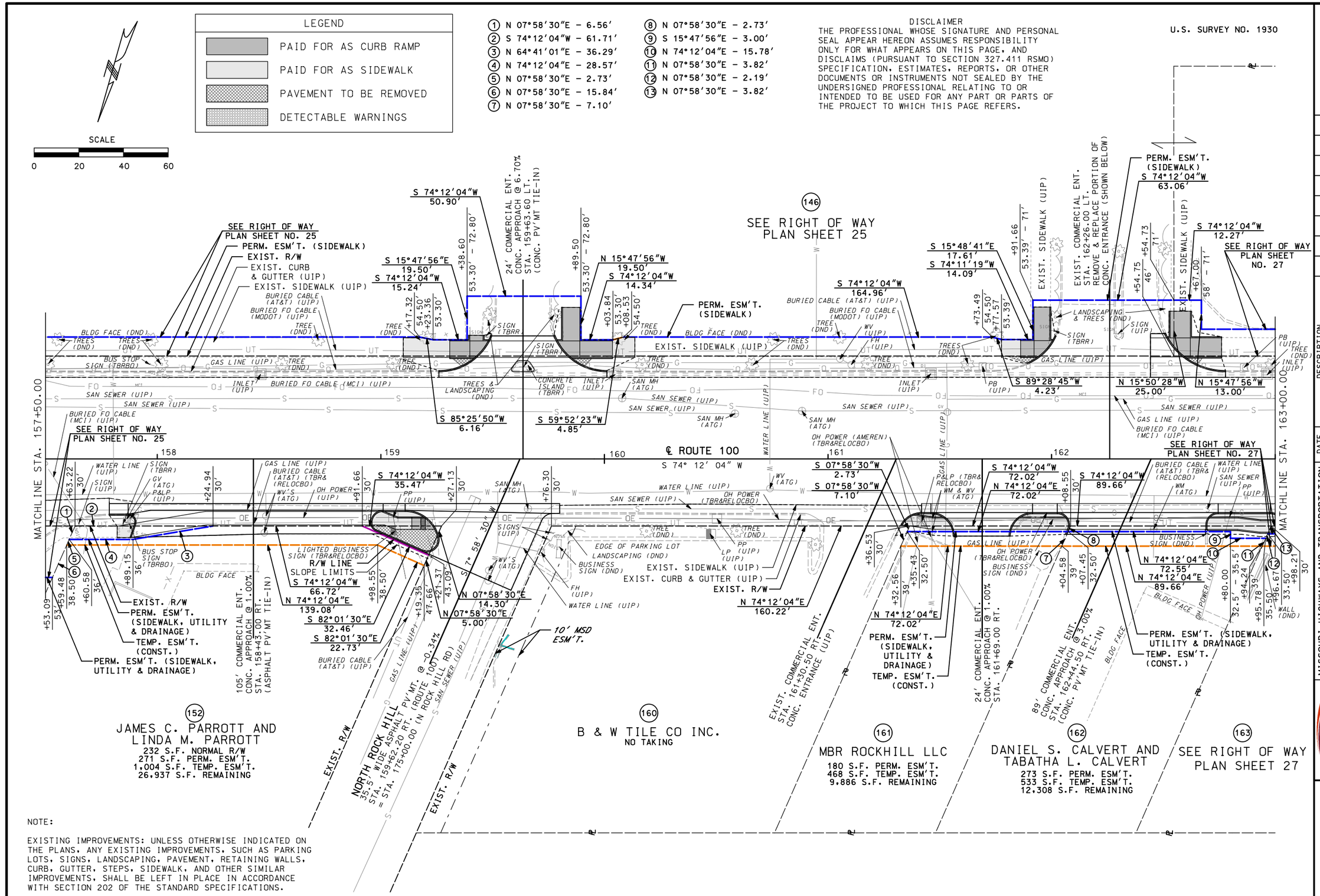
DATE PREPARED
3/6/2020
ROUTE: 100 — STATE: MO
DISTRICT: SL — SHEET NO.: 101
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001539

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 25 OF 50



DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 102
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
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www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 26 OF 50

REV. •

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\108_RW_26_J6S1718_120.dgn 12:25:49 PM 3/6/2020

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

① N 07°57'27"E – 6.01'
② N 07°57'27"E – 3.61'
③ N 07°57'27"E – 1.86'

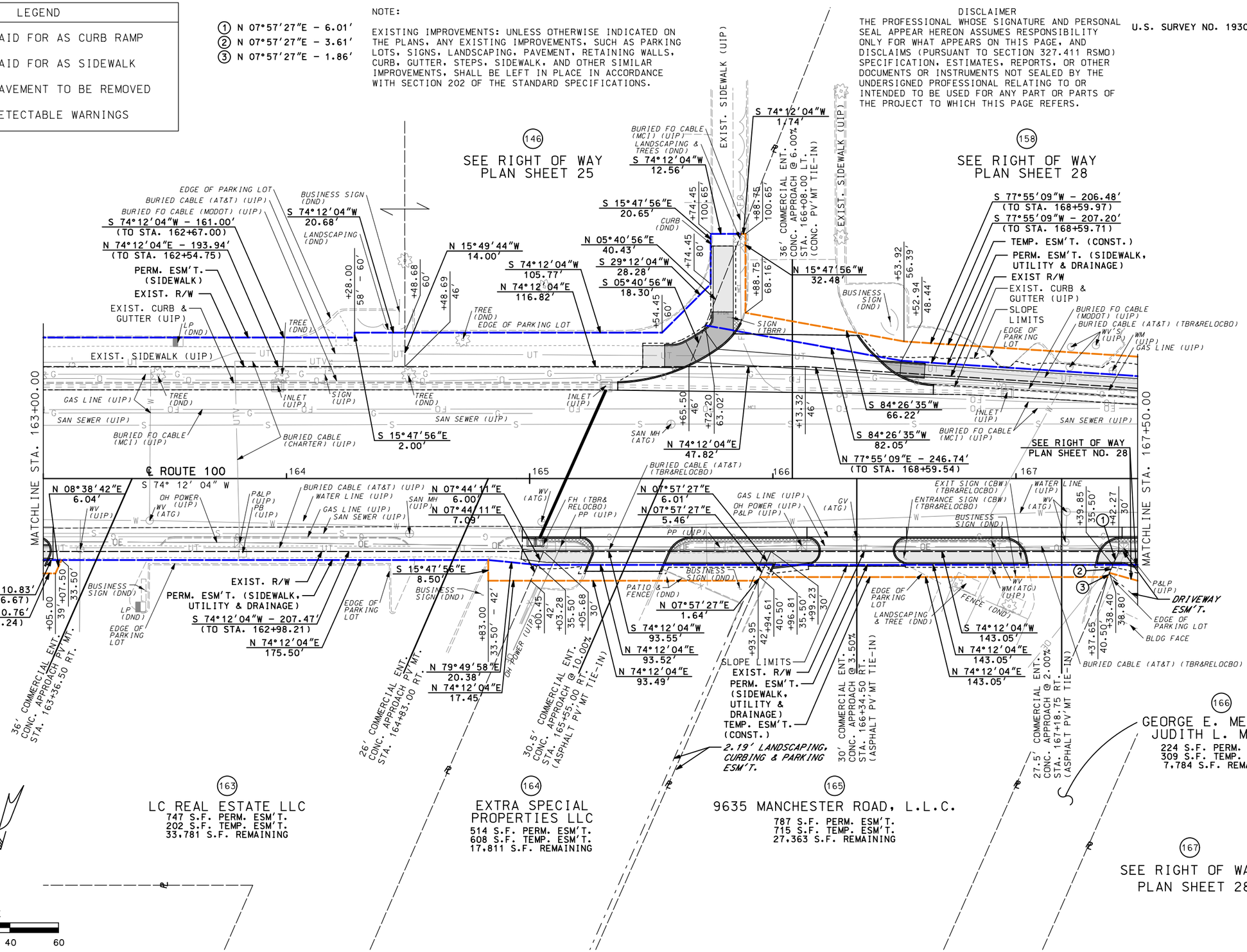
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U.S. SURVEY NO. 1930



DATE PREPARED 3/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 103
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 27 OF 50

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LEGEND	
	PAID FOR AS CURB RAMP
	PAID FOR AS SIDEWALK
	PAVEMENT TO BE REMOVED
	DETECTABLE WARNINGS

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CURVE 18 – ROUTE 100	
PI	172+32.48
PC	171+33.41
PT	173+31.51
Δ	2° 58′ 17.6″ (LT)
D	1° 30′ 00.0″
L	198.10′
T	99.07′
R	3,819.72′

① N 82°35′01″W – 11.25′
② N 00°53′59″E – 0.59′
③ N 00°53′59″E – 5.22′
④ N 00°53′59″E – 3.13′
⑤ N 00°53′59″E – 7.31′
⑥ S 74°12′04″W – 15.33′
⑦ N 07°57′27″E – 15.33′
⑧ S 48°55′15″E – 6.57′
⑨ S 48°55′15″E – 5.97′
⑩ S 48°55′15″E – 4.21′
⑪ S 74°12′04″W – 13.05′
⑫ S 07°57′27″W – 13.05′
⑬ N 41°04′45″E – 3.56′
⑭ N 41°04′45″E – 6.41′
⑮ N 41°04′45″E – 11.90′
⑯ N 74°12′04″E – 25.71′
⑰ N 07°57′27″E – 7.10′
⑱ N 07°57′27″E – 8.19′
⑲ S 74°12′04″W – 12.24′
⑳ N 74°12′04″E – 12.24′
㉑ CURVE R=3856.22′ & L=14.02′
CHORD N 74°05′49″E & L=14.02′

U.S. SURVEY NO. 1930

(159)
FELICE PROPERTIES LLC
1,760 S.F. PERM. ESM'T.
2,216 S.F. TEMP. ESM'T.
59,912 S.F. REMAINING

(158)
REFRIGERATION SUPPLIES, INC.
3,069 S.F. PERM. ESM'T.
4,659 S.F. TEMP. ESM'T.
167,319 S.F. REMAINING

(166)
SEE RIGHT OF WAY PLAN SHEET 27

(167)
JOHN E. ST. EVE AND NANCY A. ST. EVE
108 S.F. NORMAL R/W
662 S.F. PERM. ESM'T.
766 S.F. TEMP. ESM'T.
25,283 S.F. REMAINING

(168)
GRACE INVESTMENT PROPERTIES, LLC
78 S.F. NORMAL R/W
462 S.F. PERM. ESM'T.
541 S.F. TEMP. ESM'T.
20,763 S.F. REMAINING

(169)
EZ STORAGE ROCK HILL, LLC
572 S.F. PERM. ESM'T.
683 S.F. TEMP. ESM'T.
58,701 S.F. REMAINING

(170)
9910 LLC
332 S.F. PERM. ESM'T.
850 S.F. TEMP. ESM'T.
11,380 S.F. REMAINING

SEE RIGHT OF WAY PLAN SHEET NO. 29

NOTE:

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SCALE
0 20 40 60

DATE PREPARED	
3/5/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	104
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 28 OF 50

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LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

(1) S 18°46'14"E - 5.00'
(2) S 71°13'46"W - 19.09'
(3) S 71°13'46"W - 0.91'
(4) N 18°46'14"W - 5.00'
(5) N 82°08'58"W - 6.70'
(6) CURVE R=1630.75' & L=4.96'
CHORD N 71°08'33"E & L=4.96'
(7) CURVE R=1625.75' & L=7.47'
CHORD S 71°05'52"W & L=7.47'
(8) S 70°35'02"W - 18.11'
(9) S 07°52'35"W - 4.52'
(10) N 07°52'35"E - 5.76'
(11) N 07°52'35"E - 26.83'
(12) N 82°07'25"W - 6.00'
(13) S 07°52'35"W - 21.62'
(14) S 07°52'35"W - 12.84'
(15) S 07°52'35"W - 6.99'
(16) CURVE R=3849.72' & L=53.96'
CHORD S 72°19'54"W & L=53.96'
(TO STA. 172+31.25)
(17) CURVE R=52.00' & L=45.95'
CHORD S 63°02'14"E & L=44.47'
(TO STA. 172+31.25)
(18) CURVE R=3849.72' & L=47.08'
CHORD S 71°34'47"W & L=47.08'
(19) CURVE R=3851.72' & L=49.53'
CHORD N 71°35'52"E & L=49.53'
(20) CURVE R=1690.75' & L=57.98'
CHORD S 70°14'50"W & L=57.97'
(21) CURVE R=1692.75' & L=42.92'
CHORD N 70°30'11"E & L=42.92'
(22) CURVE R=1690.75' & L=14.86'
CHORD S 69°00'47"W & L=14.86'
(23) N 01°18'14"E - 14.91'
(24) S 54°42'56"E - 8.43'
(25) S 54°42'56"E - 8.15'
(26) N 87°51'36"E - 15.90'
(27) N 69°10'17"E - 4.77'
(28) N 01°18'14"E - 12.13'

U.S. SURVEY NO. 1953

(173) MANNION GROUP I, L.L.C. AND 9738 MANCHESTER, L.L.C.
278 S.F. PERM. ESM'T.
206 S.F. TEMP. ESM'T.
7,399 S.F. REMAINING

(174) MOKIA LP
421 S.F. PERM. ESM'T.
690 S.F. TEMP. ESM'T.
8,710 S.F. REMAINING

(159) SEE RIGHT OF WAY PLAN SHEET 28

(172) ROGER F. UGALDE, SR.
623 S.F. PERM. ESM'T.
795 S.F. TEMP. ESM'T.
23,665 S.F. REMAINING

SEE RIGHT OF WAY PLAN SHEET NO. 30

(179) 9725 MANCHESTER, LLC
567 S.F. NORMAL R/W
999 S.F. PERM. ESM'T.
2,584 S.F. TEMP. ESM'T.
20,784 S.F. REMAINING

(180) FHBC, LLC
102 S.F. NORMAL R/W
399 S.F. PERM. ESM'T.
1,940 S.F. TEMP. ESM'T.
19,971 S.F. REMAINING

(181) SEE RIGHT OF WAY PLAN SHEET 30

BRYAN M. SPITERI AND BLAISE A. SPITERI
NO TAKING

LEONARD AVENUE (SEE RIGHT OF WAY PLAN SHEET 28 FOR SIDEROAD NOTE)

HUDSON AVENUE 33.5' WIDE ASPHALT PV'MT. @ 1.95% STA. 177+24.37 RT. (ROUTE 100) = STA. 195+00.00 (HUDSON AVE)

MUECK TERRACE 5' ROAD EXIST. R/W 25.3' WIDE ASPHALT PV'MT. @ 6.53% STA. 177+06.57 LT. (ROUTE 100) = STA. 190+00.00 (MUECK TERRACE)

MATCHLINE STA. 172+50.00

MATCHLINE STA. 177+50.00

℄ ROUTE 100

PT STA 173+31.51

PC STA 176+18.57

CURVE 19

SCALE
0 20 40 60

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CURVE 19 - ROUTE 100	
PI	177+18.81
PC	176+18.57
PT	178+18.82
Δ	6° 54' 31.4" (LT)
D	3° 27' 00.0"
L	200.25'
T	100.25'
R	1,660.75'

DATE PREPARED 3/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 105
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 29 OF 50

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U.S. SURVEY NO. 1953 & SEC. 29, T45N, R6E

MUECK TERRACE
(SEE RIGHT OF WAY PLAN SHEET 29 FOR SIDEROAD NOTE)

EXIST. R/W

5' ROAD ESM'T.

5' UNION ELEC. ESM'T.

CURVE R=1624.75' & L=74.69'
CHORD S 65°38'16"W & L=74.68'
(TO STA. 177+42.48)
CURVE R=1630.75' & L=78.55'
CHORD N 65°42'03"E & L=78.55'
(TO STA. 177+38.82)

36' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 178+07.00 LT. (ASPHALT PV'MT TIE-IN)

+18.82
30' – 36'

S 64°19'15"W
119.00'

S 64°43'43"W – 198.75'
(TO STA. 177+49.26)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

+45.00
32' – 36'

EDGE OF PARKING LOT

LANDSCAPING (TBR)

HACIENDA ENTRANCE SIGN (TBR& RELOCBO)

BUS SHELTER (TBR)

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

EXIST. R/W

S 25°40'45"E
6.00'

+50.00
47'

+64.00
32' – 38'

TREE (DND)

LANDSCAPING (TBR)

S 61°50'56"W
185.48'

S 64°19'15"W
175.94'

N 64°19'15"E
320.95'

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

PROP. MSE WALL

SLOPE LIMITS

HACIENDA SIGN NON-LIGHTED (TBR&RELOCBO)

PI STA 200+46.00
(KORTWRIGHT AVE)
= STA. 181+75.00
(ROUTE 100)

COLUMN (DND)

TREE (DND)

LANDSCAPING (TBR)

LP (TBR)

SIGN (TBRR)

GV (AIG)

S 64°19'15"W
5.00'

N 24°26'28"W
30.01'

S 24°26'28"E
15.00'

+35.63
70'

+35.31
55'

+40.64
70'

+39.99
40'

POT STA 201+50.00

26' COMMERCIAL ENTRANCE CONC. APPROACH @ 1.00% STA. 181+75.00 LT. (ROUTE 100) = STA. 200+46.00 (KORTWRIGHT AVE) (ASPHALT PV'MT. TIE-IN)

5' ESM'T. (POLES & SEWER)

EDGE OF PARKING LOT

S 25° 40' 45" E

S 64°19'15"W
104.36'

N 64°19'15"E
150.04'

TEMP. ESM'T. (CONST.)

EXIST. R/W

SEE RIGHT OF WAY PLAN SHEET NO. 31

N 24°26'28"W
20.00

S 76°43'37"W
46.55'

+45.00
70'

+90.45
60'

10' UNION ELEC. ESM'T.

5' SOUTHWESTERN BELL TELE. ESM'T.

BURIED TELE CABLE (TBR&RELOCBO)

LANDSCAPING CURB (TBR)

BUSINESS SIGN (DND)

LANDSCAPING (TBR)

BURIED CABLE (AT&T) (TBR& RELOCBO)

BURIED FO CABLE (MCI) (TBR& RELOCBO)

SIGNAL POST (TBR)

PB (UIP)

GAS LINE (UIP)

PB'S (TBR)

WV (ATG)

SAN MH (ATG)

SAN SEWER (UIP)

OH POWER (UIP)

GUY (TBR&

PP RELOCBO (UIP)

SIGNAL EQUIP. (TBR)

PP (UIP)

PI STA 200+00.00
(KORTWRIGHT AVE)
= STA. 182+20.99
(ROUTE 100)

+90.02
40'

OH POWER (TBR& RELOCBO)

OH POWER (UIP)

SAN SEWER (UIP)

GAS LINE (UIP)

BUS STOP SIGN (TBRBO)

PP (UIP)

BURIED FO CABLE (MODOT) (TBR&RELOCBO)

BURIED FO CABLE (MCI) (TBR&RELOCBO)

SIGN (TBRR)

BURIED CABLE (AT&T) (TBR&RELOCBO)

P&PL (UIP)

OH POWER (UIP)

GAS LINE (UIP)

PP (UIP)

COLUMN (TBR&RELOCBO)

S 64°19'15"W
26.18'

N 25°40'45"W
4.00'

N 24°26'28"W
2.00'

N 24°26'28"W
8.00'

℄ ROUTE 100

S 64° 19' 15" W

MATCHLINE STA. 177+50.00

MATCHLINE STA. 183+00.00

178

179

180

181

182

SIGN (TBRR)

WATER LINE (UIP)

SAN SEWER (UIP)

SAN MH (ATG)

MULCH (TBR)/ BUSHES (DND)

BURIED FO CABLE (MODOT) (TBR&RELOCBO)

SAN SEWER (UIP)

WATER LINE (UIP)

S 53°59'15"E
4.54'

+34.15

+36.31
30'
34'

S 64°19'15"W
37.13'

SIGNAL POST (TBR)

WV (ATG)

+71.29'
30'

S 07°42'15"W
12.00'

S 07°42'15"W
7.16'

S 64°19'15"W
12.00'

BURIED CABLE (AT&T) (UIP)

+31.77
30'

+43.17
30'

GAS LINE (UIP)

TELE RISER (UIP)

SIGNAL EQUIP. (TBR)

SAN MH (ATG)

SIGNAL POST (TBR)

EXIST. R/W

PP & GUY'S (UIP)

WV (ATG)

WV (UIP)

+20.62
46'

+H (TBR& RELOCBO)

PP (TBR& RELOCBO) (STREET LGHT)

PB (TBR)

S 07°42'15"W
13.93'

R/W LINE

SEE RIGHT OF WAY PLAN SHEET NO. 31

BURIED FO CABLE (FIDELITY LINK) (UIP)

BURIED FO CABLE (MCI)(UIP)

LANDSCAPING (DND)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

EXIST. SIDEWALK (UIP)

N 36°00'45"E
21.13'

BUSINESS SIGN & LANDSCAPING (DND)

N 36°00'45"E
13.98'

TEMP. ESM'T. (CONST.)

GAS LINE (UIP)

BURIED CABLE (AT&T) (UIP)

EDGE OF PARKING LOT

BUSINESS SIGN (DND)

PB (TBR)

+27.67
39'

LANDSCAPING & MULCH (TBR)

S 53°59'15"E
35.77'

S 53°59'15"E
30.67'

N 07°42'15"E
11.36'

BURIED CABLE (AT&T) (UIP)

TREES (DND)

PP & GUY (UIP)

SIGN (TBRR)

N 07°42'15"E
37.13'

+44.60

+50.85

+70.49'

S 7° 42' 15" W

PP (UIP)

EXIST. SIDEWALK (UIP)

EXIST. R/W

EXIST. R/W

OH POWER (UIP)

10'

+12.96'
57.63'

+24.56
40.02'

+25.27
51'

SLOPE LIMITS

EXIST. R/W

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T. (CONST.)

S 64°19'15"W
315.34'

N 64°19'15"E – 408.13'
(TO STA. 177+30.09)

N 64°19'15"E – 223.75'
(TO STA. 177+33.33)

S 25°40'45"E
8.50'

N 64°19'15"E
50.00'

+55.00
39' – 47.5'

EDGE OF PARKING LOT

MULCH (TBR)/ BUSHES (DND)

+05.00
39' – 47.5'

N 25°40'45"W
8.50'

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

TEMP. ESM'T. (CONST.)

N 64°19'15"E
122.65'

BUSINESS SIGN (DND)

30.5' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 179+79.50 RT. (ASPHALT PV'MT TIE-IN)

PT STA 178+18.82

+18.82
30'

BUS STOP SIGN (TBRBO) & BENCH (TBR)

LANDSCAPING (TBR)

EDGE OF PARKING LOT

CURVE R=1690.75' & L=87.48'
CHORD S 65°48'11"W & L=87.47'
(TO STA. 177+32.89)

KORTWRIGHT AVENUE
25.5' WIDE CONCRETE PV'MT. @ 3.13%
STA. 182+20.99 RT. (ROUTE 100)
= STA. 200+00.00 (KORTWRIGHT AVE)

POT STA 198+00.00

10' UNION ELEC. ESM'T.

176
GEORGE – ROCKHILL PROPERTIES, LLC
4,273 S.F. TEMP. ESM'T.
37,500 S.F. REMAINING

175
NR INVESTMENTS, LLC
2,262 S.F. PERM. ESM'T.
5,404 S.F. TEMP. ESM'T.
125,081 S.F. REMAINING

181
CS3 BP ASSOCIATES, LLC
576 S.F. NORMAL R/W
1,691 S.F. PERM. ESM'T.
2,936 S.F. TEMP. ESM'T.
115,284 S.F. REMAINING

182
WALTRUST PROPERTIES, INC.
60 S.F. NORMAL R/W
4,111 S.F. PERM. ESM'T.
1,376 S.F. TEMP. ESM'T.
87,518 S.F. REMAINING

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE
0 20 40 60

DISCLAIMER
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DATE PREPARED	
3/5/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	106
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 30 OF 50

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SEC. 29, T45N, R6E

(177) DAN CHARLES WINTERMANTEL
1,696 S.F. TEMP. ESM'T.
25,459 S.F. REMAINING

(178) ALEXANDER VENTURES, LLC
693 S.F. TEMP. ESM'T.
16,336 S.F. REMAINING

(184) SEE RIGHT OF WAY PLAN SHEET 32

(182) SEE RIGHT OF WAY PLAN SHEET 30

(183) THE CITY OF ROCK HILL MUNICIPAL LIBRARY DISTRICT
1,781 S.F. PERM. ESM'T.
1,029 S.F. TEMP. ESM'T.
23,473 S.F. REMAINING

(195) McDONALD'S CORPORATION
144 S.F. NORMAL R/W
1,068 S.F. PERM. ESM'T.
1,459 S.F. TEMP. ESM'T.
53,025 S.F. REMAINING

BLOSSOM LANE
25' WIDE CONCRETE PV'MT. @ -6.67%
STA. 184+63.00 LT. (ROUTE 100)
= STA. 205+00.00 (BLOSSOM LN)

MANITOU DRIVE
26' WIDE ASPHALT PV'MT. @ 1.00%
STA. 186+63.10 LT. (ROUTE 100)
= STA. 210+00.00 (MANITOU DR)

℄ ROUTE 100

CERTIFIED LAND SURVEY TIE #7

Commencing at a Spindle in the southwest corner of Lot A in Manchester Road Consolidation Plat at Kortwright Avenue Plat recorded in Book 353, Page 1012 in St. Louis County Recorder of Deeds office (or along northside of the Route 100 Right of Way Line in the southwest corner of Parcel 182) to Route 100 ℄ Sta. 184+77.18, S 25° 40' 45" E a distance of 30.00 feet in Section 29, T45N, R6E.

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTE:
EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SCALE
0 20 40 60

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 107
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6360
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 31 OF 50

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SEC. 29, T45N, R6E

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

(184) ROCK HILL PARTNERS, LLC
1,404 S.F. TEMP. ESM'T.
56,197 S.F. REMAINING

(185) SHIRLEY M. HOWE, TRUSTEE
550 S.F. PERM. ESM'T.
25 S.F. TEMP. ESM'T.
7,315 S.F. REMAINING

(186) 9840 MANCHESTER ROAD, L.L.C.
778 S.F. PERM. ESM'T.
10,348 S.F. REMAINING

(187) 9842, L.C.
705 S.F. PERM. ESM'T.
141 S.F. TEMP. ESM'T.
9,376 S.F. REMAINING

(188) JPBF PROPERTIES, LC
375 S.F. PERM. ESM'T.
75 S.F. TEMP. ESM'T.
4,988 S.F. REMAINING

TAVALON AVENUE
26' WIDTH ASPHALT PV'MT. @ 1.03%
STA. 191+21.68 LT. (ROUTE 100)
= STA. 220+00.00 (TAVALON AVE)

(195) SEE RIGHT OF WAY PLAN SHEET 31

O'DAY AVENUE
26' WIDE ASPHALT PV'MT. @ 3.19% RT. (ROUTE 100)
STA. 188+86.82 RT. (ROUTE 100)
= STA. 215+00.00 (O'DAY AVE)

(196) CENTER OF HEARING & SPEECH, A MISSOURI NON-PROFIT CO.
500 S.F. PERM. ESM'T.
350 S.F. TEMP. ESM'T.
14,615 S.F. REMAINING

(197) MANCHESTER SPEEDWAY CO.
1,665 S.F. PERM. ESM'T.
3,915 S.F. TEMP. ESM'T.
106,882 S.F. REMAINING

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SCALE
0 20 40 60

DATE PREPARED 3/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 108
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 32 OF 50

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SEC. 29 & 30, T45N, R6E

(189)
TITUS ONE A LLC
1,000 S.F. PERM. ESM'T.
200 S.F. TEMP. ESM'T.
13,300 S.F. REMAINING

(190)
TITUS ONE B LLC
607 S.F. PERM. ESM'T.
107 S.F. TEMP. ESM'T.
7,714 S.F. REMAINING

(191)
ALGONQUIN PROPERTIES, LLC
AND
VSIG I, LLC
1,035 S.F. PERM. ESM'T.
740 S.F. TEMP. ESM'T.
19,739 S.F. REMAINING

(192)
THE SOUTHLAND CORPORATION
547 S.F. NORMAL R/W
296 S.F. PERM. ESM'T.
1,428 S.F. TEMP. ESM'T.
19,193 S.F. REMAINING

FAIRDALE AVENUE
EXIST. R/W
234' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 192+73.00 LT. (ASPHALT PV'MT TIE-IN)
20' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 193+37.00 RT. (ASPHALT PV'MT TIE-IN)
20' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 193+77.00 RT. (ASPHALT PV'MT TIE-IN)
30' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 194+35.00 RT. (ASPHALT PV'MT TIE-IN)
16' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 194+98.00 RT.
10' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 195+53.00 RT. (ASPHALT PV'MT TIE-IN)
24' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 195+93.00 RT.
28' COMMERCIAL ENT. CONC. APPROACH @ 8.50% STA. 194+84.00 LT.
EXIST. COMMERCIAL ENT. STA. 195+64.00 LT. CONC. ENTRANCE (UIP)
46' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 196+46.00 LT.
MATCHLINE STA. 192+50.00
MATCHLINE STA. 197+00.00
℄ ROUTE 100

S 64°19'15"W 53.77'
S 64°19'15"W 52.77'
N 64°19'15"E 58.00'
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST R/W
SLOPE LIMITS
S 64°19'15"W 100.00'
S 64°19'15"W 100.00'
N 64°19'15"E 100.00'
S 24°49'00"E 7.00'
S 24°49'00"E 5.00'
S 01°29'21"W 9.55'
S 24°49'00"E 225.00'
N 24°49'00"W 2.00'
N 24°49'00"W 10.00'
N 24°49'00"W 2.00'
N 24°49'00"W 10.00'
N 24°49'00"W 20.50'
S 01°29'21"W 2.25'
S 64°19'15"W 147.93'
S 64°19'15"W 147.89'
N 64°19'15"E 147.82'
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
S 64°19'15"W 10.86'
N 25°40'45"W 4.80'
N 24°17'34"W 5.00'
N 24°17'34"W 7.00'
S 64°19'15"W - 117.86' (TO STA. 197+14.11)
S 64°19'15"W - 101.74' (TO STA. 197+08.74)
N 64°19'15"E - 109.04' (TO STA. 197+05.00)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W

BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED CABLE (AT&T) (TBR&RELOCBO)
BURIED FO CABLE (MODOT) (TBR&RELOCBO)
OH POWER (UIP)
P&LP (UIP)
GAS LINE (UIP)
SAN SEWER (UIP)
WATER LINE (UIP)
FH (TBR&RELOCBO)
GV (ATG)
WV (ATG)
WV'S (ATG)
SIGN (TBRR)
SIGN (UIP)
PB (TBR&RELOCBO)
PP (TBR&RELOCBO)
OH POWER (TBR&RELOCBO)
SAN MH (ATG)
TREE (DND)
BUSINESS SIGN (DND)
BUS STOP SIGN (TBRRBO) & BENCH (TBR)
PP (UIP)
OH CABLE (AT&T) (TBR&RELOCBO)
CONCRETE ISLAND (TBRR)
PROP. WALL (SMALL BLOCK) & PED. FENCE
LP (DND)
EDGE OF PARKING LOT
SEE RIGHT OF WAY PLAN SHEET NO. 32
BOLLARD (TBR)
BOLLARD (DND)
LANDSCAPING (TBR)
BLDG FACE
LP (TBRR) (MODOT)
PP & GUY (UIP)
WM (UIP)
SAN MH (ATG)
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY DRAINAGE & WALL)
S 64°19'15"W 196.44'
N 67°14'48"E 191.90'
N 67°14'48"E 129.95'
S 66°57'55"W 74.77'
N 67°14'48"E 61.43'
N 67°14'48"E 63.06'
8' TELE. ESM'T.
TEMP. ESM'T. (CONST.)
S 64°19'15"W- 162.78' (TO STA. 197+20.14)
N 64°19'15"E - 156.46' (TO STA. 197+18.82)
N 64°19'15"E 13.49'
N 25°40'45"W 19.00'

① N 00°23'15"E - 7.29'
② S 00°23'15"W - 0.35'
③ N 00°23'15"E - 3.26'
④ N 00°23'15"E - 7.61'
⑤ S 00°23'15"W - 1.63'
⑥ S 25°40'45"E - 2.76'
⑦ N 66°01'20"E - 6.60'
⑧ S 25°40'45"E - 4.73'
⑨ N 64°19'15"E - 10.76'
⑩ N 64°19'15"E - 5.00'
⑪ N 25°40'45"W - 14.00'

(197)
SEE RIGHT OF WAY PLAN SHEET 32

(198)
STEVE ANGELOS AND GEORGE ANGELOS
33 S.F. PERM. ESM'T.
992 S.F. TEMP. ESM'T.
21,123 S.F. REMAINING

(199)
M B VENTURES, LLC
1,127 S.F. TEMP. ESM'T.
20,053 S.F. REMAINING

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

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SCALE
0' 20 40 60

DATE PREPARED 3/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 109
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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ST. LOUIS, MO 63101
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www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 33 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\115_RW_33_J6S1718_120.dgn 3:36:28 PM 3/5/2020

1. N 64°19'15"E - 20.89'
2. N 20°01'49"E - 28.63'
3. N 24°15'37"W - 24.93'
4. N 24°15'37"W - 2.12'
5. S 33°51'19"W - 4.34'
6. S 33°51'19"W - 15.38'
7. S 09°55'15"W - 42.95'
8. S 18°54'39"W - 25.43'
9. S 23°20'47"E - 17.30'
10. S 65°44'23"W - 14.39'
11. S 78°59'01"E - 8.60'
12. S 78°59'01"E - 14.91'
13. S 24°15'37"E - 14.51'
14. S 65°44'23"W - 1.00'
15. CURVE R=29.00' & L=7.19'
CHORD N 31°21'49"W & L=7.17'
16. N 56°58'32"W - 19.02'
17. N 58°41'37"W - 28.07'
18. N 24°15'37"W - 34.08'
19. S 65°44'23"W - 5.00'
20. S 24°15'37"E - 34.08'
21. S 01°10'00"W - 6.00'
22. S 01°10'00"W - 17.66'
23. N 88°50'00"W - 5.00'
24. N 01°10'00"E - 7.94'
25. N 86°07'09"W - 23.60'
26. CURVE R=340.00' & L=28.86'
CHORD N 19°31'57"W & L=28.85'
27. N 72°50'26"E - 5.00'
28. S 19°15'53"E - 25.31'
29. S 86°07'09"E - 19.13'
30. N 15°23'57"W - 14.01'
31. CURVE R=390.00' & L=18.21'
CHORD S 21°23'31"E & L=18.21'
32. S 21°58'02"W - 15.71'
33. NOT USED
34. N 21°58'02"E - 20.53'
35. N 21°58'02"E - 19.94'
36. N 20°49'29"W - 10.62'
37. N 69°56'45"E - 5.00'

SEC. 30, T45N, R6E

SCALE
0 20 40 60

BERRY ROAD
34' WIDE CONC. PV'MT W/ ASPH. OVERLAY @ -2.00%
STA. 197+65.15 LT. (ROUTE 100) (BERRY RD)
= STA. 230+09.00 (BERRY RD)

EXIST. R/W

POT STA 231+50.00

192 SEE RIGHT OF WAY PLAN SHEET 33

193 MANCHESTER PROPERTY INVESTORS LLC
69 S.F. PERM. ESM'T.
813 S.F. TEMP. ESM'T.
10,312 S.F. REMAINING

194 9910 LLC
323 S.F. PERM. ESM'T.
2,503 S.F. TEMP. ESM'T.
15,820 S.F. REMAINING

201 LAURIE'S SHOE CENTER, INC.
18 S.F. PERM. ESM'T.
2,084 S.F. TEMP. ESM'T.
19,219 S.F. REMAINING

202 SEE RIGHT OF WAY PLAN SHEET 35

MONIER PLACE
23' WIDE ASPHALT PV'MT @ -1.13%
STA. 200+08.37 LT. (ROUTE 100) (MONIER PL)
STA. 235+00.00 (MONIER PL)

TEMP. ESM'T. (CONST.)
EXIST. R/W LINE
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
EXIST. R/W

S 68°11'17"W 87.86'
N 68°11'17"E 89.63'
S 67°27'11"W 101.21'
CURVE R=1778.05' & L=108.26'
CHORD S 67°35'43"W & L=108.25'
CURVE R=1775.05' & L=106.82'
CHORD N 67°34'37"E & L=106.80'
S 01°10'00"W 30.15'
N 01°10'00"E 44.59'
N 88°50'00"W 15.00'
N 55°42'04"W 7.00'
N 70°53'14"E 153.67'
S 70°53'14"W 117.92'
S 41°27'00"W 8.14'
N 01°10'00"E 7.36'
N 88°50'00"W 29.13'
S 70° 53' 14" W
S 25°14'55"E 17.00'
N 25°14'55"W 2.01'
N 25°14'55"W 3.00'
N 01°10'00"E 3.23'
CURVE R=1775.05' & L=6.25'
CHORD N 70°47'11"E & L=6.25'

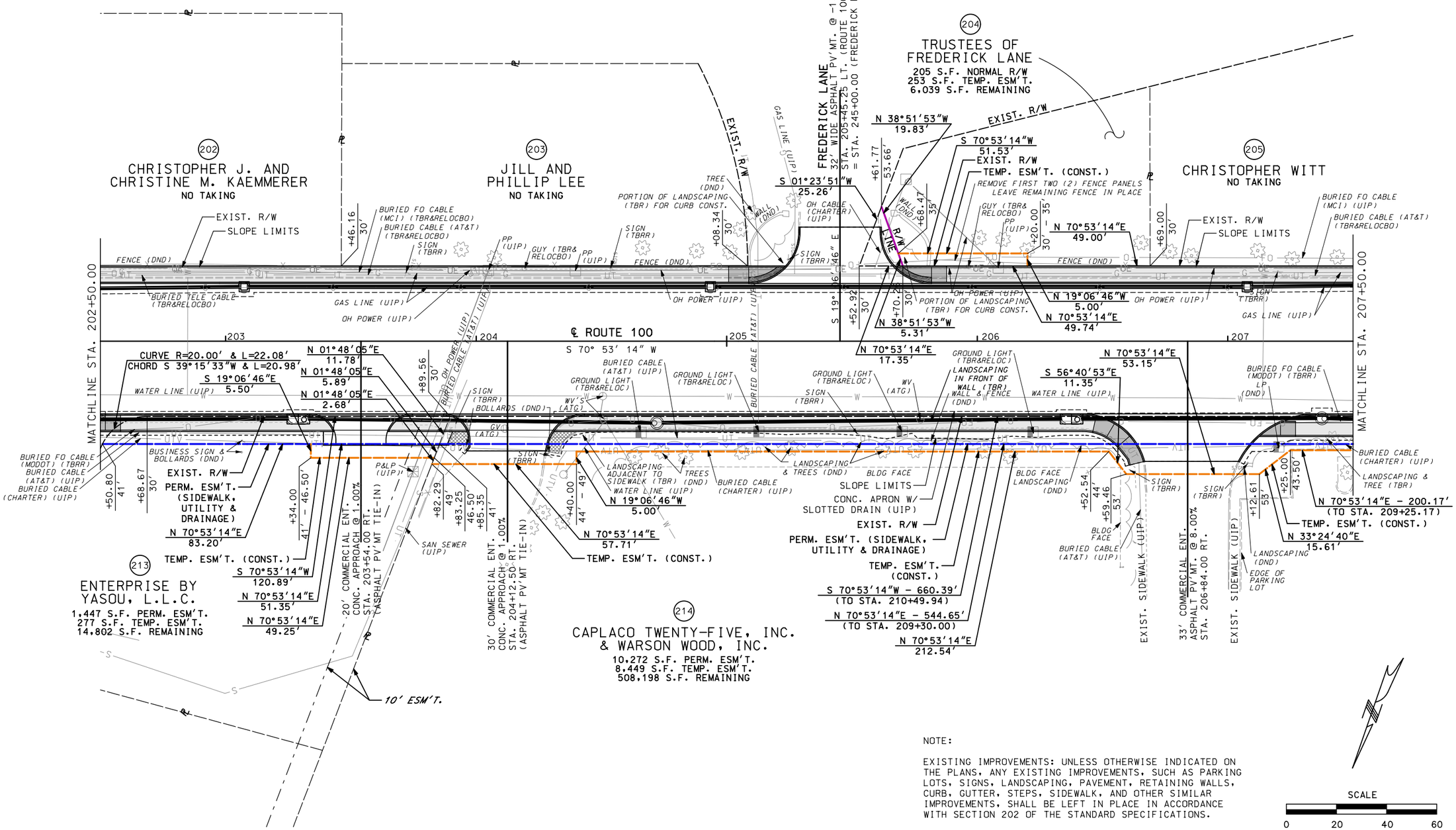
PI STA 230+00.00 (BERRY RD) = STA. 197+74.16 (ROUTE 100)
PC STA 198+47.20
PI STA 230+09.00 (BERRY RD) = STA. 197+65.15 (ROUTE 100)
POT STA 201+00.00
EQUATION:
Sta 201+10.00 BK = Sta 201+00.00 AH
PT STA 200+47.19
PT STA 239+52.67
PC STA 238+68.72

CURVE 20
PROP. WALL (SMALL BLOCK) & PED. FENCE
CONCRETE ISLAND (TBR)
TINT WINDOWS LIGHTED SIGN (TBR&RELOCBO) & WOOD (TBR); REPLACE W/ CURB
LANDSCAPING & ROCKS (TBR) OH POWER (TBR&RELOCBO)
BUSINESS SIGN (DND)
FENCE (DND)
BUS PAD (8' X 8')
BUS STOP SIGN (TBRRBO)
EDGE OF PARKING LOT
FLAG POLES (DND)
SIGN (TBRR)
SIGN (UIP)
SIGN (TBR)
SIGNAL EQUIP. (TBR)
SIGNAL POST (TBR)
LP (TBR)
LP'S (DND)
P&LP (UIP)
P&LP & GUY (TBR&RELOCBO)
PP & GUY (UIP)
PP & GUY (TBR&RELOCBO)
PP (TBR&RELOCBO)
PP (UIP)
PP (DND)
GUY (TBR&RELOCBO)
GUY (TBR&RELOCBO)
GUY (TBR&RELOCBO)
GUY'S (UIP)
OH POWER (TBR&RELOCBO)
OH POWER (UIP)
BURIED CABLE (AT&T) (UIP)
BURIED CABLE (CHARTER) (UIP)
BURIED CABLE (AT&T) (TBR&RELOCBO)
BURIED CABLE (CHARTER) (TBR&RELOCBO)
BURIED FO CABLE (FIDELITY LINK) (TBR&RELOCBO)
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED FO CABLE (MODOT) (TBRR)
BURIED TELE CABLE (TBR&RELOCBO)
GAS LINE (UIP)
WATER LINE (UIP)
WV (ATG)
WV & FH (UIP)
SAN MH (ATG)
SAN SEWER (UIP)
GV (ATG)
BENCH (TBR)
TREE (DND)
EXIST. SIDEWALK (UIP)
EXIST. SIDEWALK
BUSINESS SIGN (DND)
BUSINESS SIGN (UIP)
BUSINESS SIGN (TBRR)

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LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SEC. 30, T45N, R6E



NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SCALE
0 20 40 60

DATE PREPARED 3/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 111
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

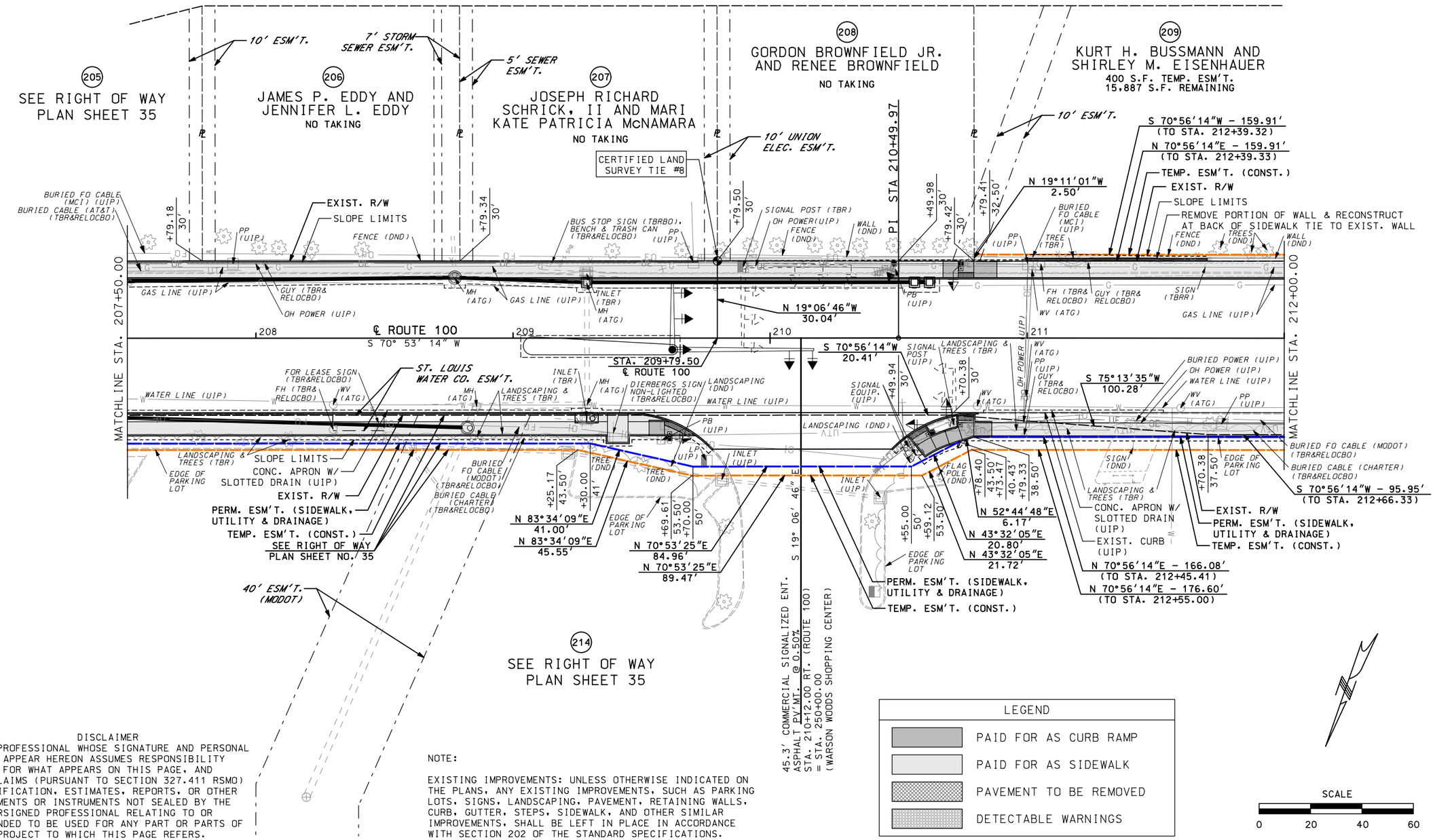
RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 35 OF 50

REV.

SEC. 30, T45N, R6E

CERTIFIED LAND SURVEY TIE #8

Commencing at an Iron Pipe in the northeast corner of Lot 3 in Frederick Lane Subdivision Plat recorded in Book 34, Page 70 in St. Louis County Recorder of Deeds office (or along southside of the Route 100 Right of Way Line in the northeast corner of Parcel 208) to Route 100 ℄ Sta. 209+79.50, N 19° 06′ 46″ W a distance of 30.04 feet in Section 30, T45N, R6E.



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LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE 0 20 40 60

DATE PREPARED 3/5/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	112

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION / DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 36 OF 50

REV.

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SEC. 30, T45N, R6E

(209) SEE RIGHT OF WAY PLAN SHEET 36

(210) MATTHIAS D. RENNER FAMILY, L.L.C., THOMAS R. GREEN, JR. FAMILY, L.L.C., & KATHERINE A. WEBER FAMILY, L.L.C.
825 S.F. TEMP. ESM'T.
44,680 S.F. REMAINING

(211) ROYAL BANKS OF MISSOURI
638 S.F. TEMP. ESM'T.
21,638 S.F. REMAINING

(217) JEFFERSON SAVINGS AND LOAN ASSOCIATION
72 S.F. PERM. ESM'T.
202 S.F. TEMP. ESM'T.
27,160 S.F. REMAINING

(218) MILOR REALTY CORPORATION
601 S.F. PERM. ESM'T.
512 S.F. TEMP. ESM'T.
14,720 S.F. REMAINING

5' ESM'T.

INGRESS/ EGRESS ESM'T.

44' STORMWATER ESM'T.

28' STORMWATER ESM'T.

TEMP. ESM'T. (CONST.)

25' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 212+69.75 LT. (ASPHALT PV'MT TIE-IN)

25' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 214+04.50 LT. (ASPHALT PV'MT TIE-IN)

EXIST. COMMERCIAL ENT. STA. 215+47.00 LT. CONCRETE ENTRANCE (UIP)

EXIST. COMMERCIAL ENT. STA. 216+42.00 LT. CONCRETE ENTRANCE (UIP)

30' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 217+05.00 LT. (ASPHALT PV'MT TIE-IN)

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

S 70°47'14"W - 97.21' (TO STA. 217+76.70)

S 70°47'14"W - 120.19' (TO STA. 217+99.68)

N 70°47'14"E - 120.17' (TO STA. 217+99.66)

SEE RIGHT OF WAY PLAN SHEET NO. 36

TEMP. ESM'T. (CONST.)

EXIST. R/W

FENCE & WALL (DND)

S 19°13'36"E 5.00'

N 19°13'36"W 2.50'

N 19°13'36"W 5.50'

S 70°56'14"W 165.09'

N 70°56'14"E 165.09'

FOR LEASE SIGN (DND)

SLOPE LIMITS

BUSINESS SIGN (DND)

S 70°47'14"W 106.12'

S 70°47'14"W 15.51'

N 70°47'14"E 15.51'

S 70°56'14"W 8.87'

N 19°11'51"W 5.00'

N 70°56'14"E 8.87'

N 70°47'14"E 64.17'

S 74°52'35"E 42.07'

S 19°11'51"E 5.00'

N 19°12'46"W 13.00'

N 19°11'51"W 8.00'

N 70°47'14"E 130.00'

S 19°12'46"E 5.00'

S 70°47'14"W 14.49'

N 70°47'14"E 14.49'

N 19°12'46"W 5.00'

N 19°12'10"W 3.00'

N 19°12'10"W 5.00'

S 70°47'14"W 15.00'

N 70°47'14"E 15.00'

S 70°56'14"W 13.52'

S 19°04'55"E 7.50'

N 19°04'55"W 7.50'

S 19°04'55"E 3.00'

S 19°04'55"E 4.50'

N 19°05'58"W 3.00'

N 19°05'58"W 5.00'

S 70°56'14"W 83.51'

N 70°56'14"E 81.37'

N 47°36'22"E 6.31'

N 25°17'37"E 31.47'

S 70°56'14"W 50.00'

N 70°56'14"E 71.14'

N 70°56'14"E 55.00'

S 70°47'14"W 103.17'

N 70°47'14"E 181.75'

S 70°47'14"W 200.19'

N 70°47'14"E 200.19'

S 19°12'46"E 10.50'

N 70°47'14"E 44.00'

S 70°47'14"W 77.62'

PI STA 214+13.31

(214) SEE RIGHT OF WAY PLAN SHEET 35

WARSON WOODS BOULEVARD
35' WIDE ASPHALT PV'MT @ 0.54%
STA. 212+86.25 RT. (ROUTE 100)
= STA. 255+00.00 (WARSON WOODS)

ANDREW DRIVE
27' WIDE CONCRETE PV'MT. @ -1.00%
STA. 217+41.70 RT. (ROUTE 100)
= STA. 260+00.00 (ANDREW DR)

29.5' COMMERCIAL ENT. ASPHALT PV'MT. @ 3.00% STA. 216+16.50 RT.

50' LACLEDE GAS & MSD ESM'T.

MATCHLINE STA. 212+00.00

MATCHLINE STA. 217+50.00

SCALE
0 20 40 60

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LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED 3/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 113

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DATE | DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

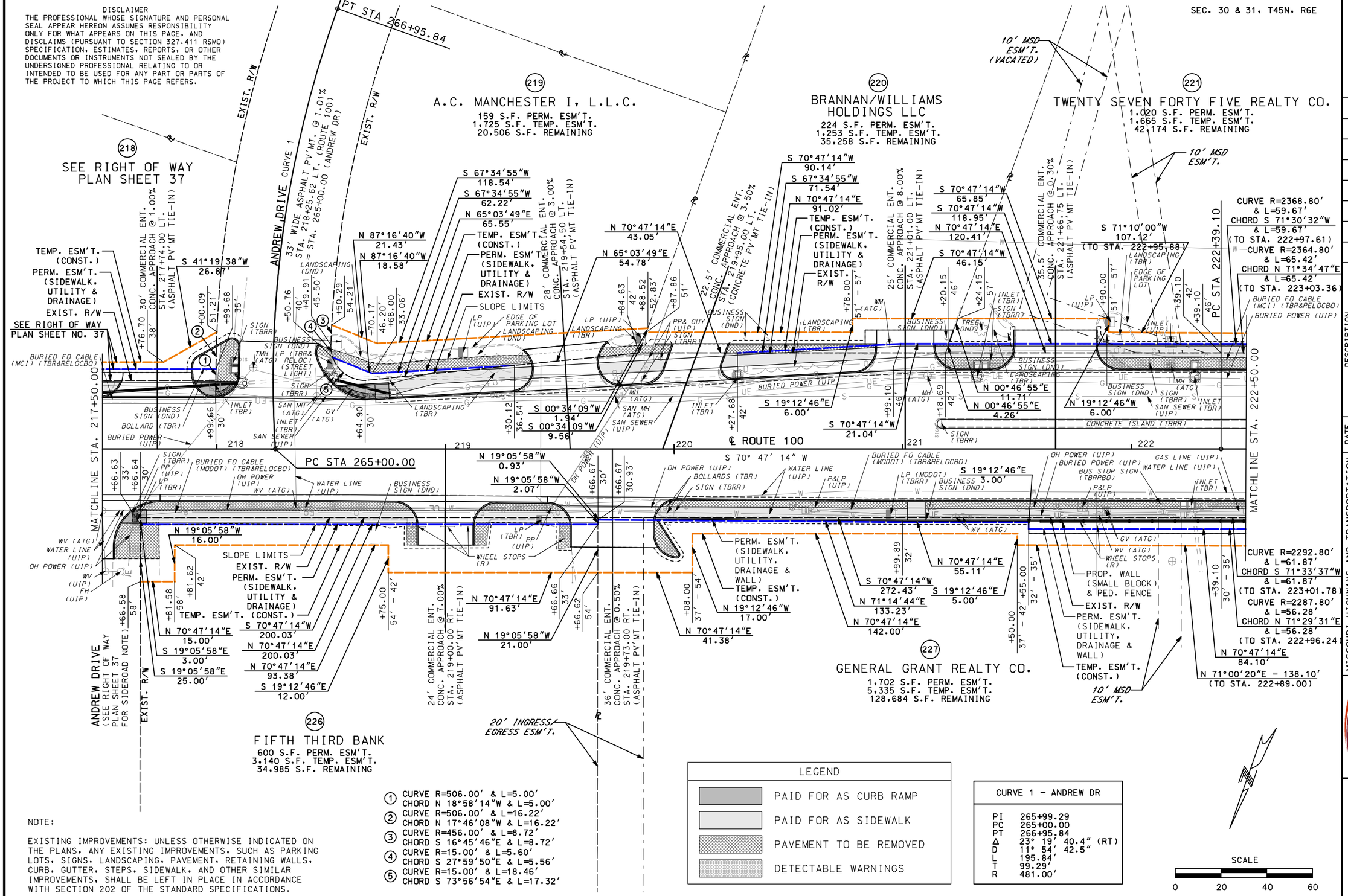
RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 37 OF 50

REV.

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SEC. 30 & 31, T45N, R6E



① CURVE R=506.00' & L=5.00'
CHORD N 18°58'14"W & L=5.00'
② CURVE R=506.00' & L=16.22'
CHORD N 17°46'08"W & L=16.22'
③ CURVE R=456.00' & L=8.72'
CHORD S 16°45'46"E & L=8.72'
④ CURVE R=15.00' & L=5.60'
CHORD S 27°59'50"E & L=5.56'
⑤ CURVE R=15.00' & L=18.46'
CHORD S 73°56'54"E & L=17.32'

LEGEND

	PAID FOR AS CURB RAMP
	PAID FOR AS SIDEWALK
	PAVEMENT TO BE REMOVED
	DETECTABLE WARNINGS

CURVE 1 – ANDREW DR

PI	265+99.29
PC	265+00.00
PT	266+95.84
Δ	23° 19' 40.4" (RT)
D	11° 54' 42.5"
L	195.84'
T	99.29'
R	481.00'

SCALE
0 20 40 60

NOTE:

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DATE PREPARED 8/16/2019
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 114
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6360
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 38 OF 50

REV.

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

① S 20°49'33"E - 4.00'
② S 20°49'33"E - 6.00'
③ S 20°49'33"E - 4.00'
④ CURVE R=20.00' & L=23.77'
CHORD N 35°07'20"E & L=22.40'
⑤ N 01°04'14"E - 1.57'
⑥ N 01°04'14"E - 4.31'
⑦ S 01°04'14"W - 14.80'
⑧ N 69°10'27"E - 14.80'
⑨ N 54°52'40"W - 3.29'
⑩ S 54°52'40"E - 8.45'
⑪ S 54°52'40"E - 4.83'

SEC. 31, T45N, R6E

(230) SEE RIGHT OF WAY PLAN SHEET 40

(231) GLENDALE CENTER, LLC
1,373 S.F. PERM. ESM'T.
717 S.F. TEMP. ESM'T.
32,637 S.F. REMAINING

(232) SEE RIGHT OF WAY PLAN SHEET 42

(237) SEE RIGHT OF WAY PLAN SHEET 40

(238) DM REALTY AND INVESTMENT COMPANY, LLC
417 S.F. PERM. ESM'T.
422 S.F. TEMP. ESM'T.
15,645 S.F. REMAINING

(239) CROWN DIVERSIFIED INDUSTRIES CORP.
1,081 S.F. PERM. ESM'T.
1,071 S.F. TEMP. ESM'T.
29,310 S.F. REMAINING

(240) SEE RIGHT OF WAY PLAN SHEET 42

NOTE:

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SCALE
0 20 40 60

DATE PREPARED
3/6/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	117

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 41 OF 50

REV.

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

1. S 20°49'33"E - 4.00'
2. S 20°49'33"E - 6.00'
3. S 20°49'33"E - 4.00'
4. CURVE R=20.00' & L=23.77' CHORD N 35°07'20"E & L=22.40'
5. N 01°04'14"E - 1.57'
6. N 01°04'14"E - 4.31'
7. S 01°04'14"W - 14.80'
8. N 69°10'27"E - 14.80'
9. N 54°52'40"W - 3.29'
10. S 54°52'40"E - 8.45'
11. S 54°52'40"E - 4.83'

SEC. 31, T45N, R6E

(230) SEE RIGHT OF WAY PLAN SHEET 40

(231) GLENDALE CENTER, LLC
1,373 S.F. PERM. ESM'T.
717 S.F. TEMP. ESM'T.
32,637 S.F. REMAINING

(232) SEE RIGHT OF WAY PLAN SHEET 42

(237) SEE RIGHT OF WAY PLAN SHEET 40

(238) DM REALTY AND INVESTMENT COMPANY, LLC
417 S.F. PERM. ESM'T.
422 S.F. TEMP. ESM'T.
15,645 S.F. REMAINING

(239) CROWN DIVERSIFIED INDUSTRIES CORP.
1,081 S.F. PERM. ESM'T.
1,071 S.F. TEMP. ESM'T.
29,310 S.F. REMAINING

(240) SEE RIGHT OF WAY PLAN SHEET 42

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

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SCALE 0 20 40 60

DATE PREPARED 11/6/2019
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 117
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 41 OF 50

P:\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\117_RW_41_J6S1718_120.dgn 9:51:12 AM 11/6/2019

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SEC. 31, T45N, R6E

DISCLAIMER
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(232) SWEETGUM PROPERTIES, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(233) SWEETGUM PROPERTIES, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(234) 10132 MANCHESTER ROAD, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(235) 10134 MANCHESTER ROAD, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(236) DORIS M. CANNON
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(243) SEE RIGHT OF WAY PLAN SHEET 43

(240) EDWIN C. WIND & FRANCES L. WIND TRUST
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(241) EDWIN C. WIND & FRANCES L. WIND TRUST
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(242) WOODLAWN CONDOMINIUMS
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

SEE RIGHT OF WAY PLAN SHEET NO. 41

SEE RIGHT OF WAY PLAN SHEET NO. 43

POT STA 290+00.00

PT STA 289+49.68

PC STA 289+00.00

STURGIS DRIVE
27' WIDE ASPHALT PV'MT. @ 0.50%
STA. 238+61.40 RT. (ROUTE 100)
= STA. 290+00.00 (STURGIS DR)

MARIEDALE DRIVE
25' WIDE CONCRETE PV'MT. @ 1.00%
STA. 242+30.64 RT. (ROUTE 100)
= STA. 295+00.00 (MARIEDALE CT)

℄ ROUTE 100 S 69° 10' 27" W

MATCHLINE STA. 238+00.00

MATCHLINE STA. 243+00.00

CURVE 1 – STURGIS DR	
PI	289+24.96
PC	289+00.00
PT	289+49.68
Δ	13° 53' 07.3" (LT)
D	27° 56' 57.0"
L	49.68'
T	24.96'
R	205.00'

① CURVE R=20.00' & L=9.02'
CHORD S 82°05'42"W & L=8.94'

② CURVE R=20.00' & L=11.92'
CHORD N 67°54'18"W & L=11.75'

③ CURVE R=20.00' & L=11.92'
CHORD S 26°15'11"W & L=11.75'

④ CURVE R=20.00' & L=9.02'
CHORD S 56°15'11"W & L=8.94'

⑤ CURVE R=25.00' & L=23.18'
CHORD N 84°15'39"W & L=22.36'

⑥ CURVE R=25.00' & L=3.57'
CHORD N 53°36'13"W & L=3.57'

⑦ CURVE R=25.00' & L=3.57'
CHORD S 11°57'06"W & L=3.57'

⑧ CURVE R=25.00' & L=23.18'
CHORD S 42°36'32"W & L=22.36'

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SCALE
0 20 40 60

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 118
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 42 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\118_RW_42_J6S1718_I20.dgn 11:29:40 AM 3/6/2020

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

CERTIFIED LAND SURVEY TIE #9

Commencing at an Iron Pipe in the soutwest corner of Phase 2 in Woodlawn Condominiums Phase 2 Plat recorded in Book 218, Page 88 in St. Louis County Recorder of Deeds office (or along northside of the Route 100 Right of Way Line in the southwest corner of Parcel 251) to Route 100 ℄ Sta. 244+13.82, S 20° 49' 33" E a distance of 30.00 feet in Section 31, T45N, R6E.

SEC. 31, T45N, R6E

243

BFS RETAIL & COMMERCIAL OPERATIONS, LLC

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

244

ARDELLA V. MARTIN TRUST, FRANK M. BAYLEY TRUST, MARY M. BAYLEY TRUST, AND THREE MARTIN PROPERTIES, LLC.

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

245

DEAN TEAM, L.L.C.

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

246

MANCHESTER, L.L.C.

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

242

WOODLAWN CONDOMINIUMS

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

252

JOHN B. HEGEMAN AND KATHRYN M. HEGEMAN, TRUSTEES & HARRY J. HEGEMAN AND ANNE E. HEGEMAN, TRUSTEES

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

DICKSON STREET
27.6' WIDE ASPHALT PV'MT. @ 2.18%
STA. 246+04.40 LT. (ROUTE 100)
≡ STA. 300+00.00 (DICKSON ST)

℄ ROUTE 100

STA. 244+13.82
℄ ROUTE 100
S 20°49'33"E
30.00'

PC STA 245+80.84

CURVE 23

MATCHLINE STA. 243+00.00

MATCHLINE STA. 248+00.00

CERTIFIED LAND SURVEY TIE #9

REMOVE & RECONSTRUCT LANDSCAPING WALL

10' UTIL. ESM'T.

10' ELEC. ESM'T.

EXIST. R/W

EXIST. SIDEWALK (UIP)

EDGE OF PARKING LOT

SLOPE LIMITS

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

TEMP. ESM'T. (CONST.)

PROP. WALL

247 (MOD. CURB)

BOLLARDS (TBR)

BUS STOP SIGN (TBRBO)

BUSINESS SIGN (DND)

BUSHES (DND)

BUSH (TBR)

WALL (DND)

WALL (TBRR)

LANDSCAPING & WALL (DND)

BURIED FO CABLE (MODOT) (TBRR)

BURIED FO CABLE (MODOT) (UIP)

BURIED CABLE (AT&T) (TBR&RELOCBO)

BURIED CABLE (AT&T) (TBR&RELOCBO)

BURIED FO CABLE (MODOT) (TBRR)

BURIED POWER (UIP)

P&LP (TBR& RELOCBO)

OH POWER (TBR& RELOCBO)

OH POWER (UIP)

OH CABLE (CHARTER) (UIP)

PP (UIP)

PP (TBR& RELOCBO)

PP'S (UIP)

GUY (TBR& RELOCBO)

GUY'S (TBR& RELOCBO)

GAS LINE (UIP)

SAN SEWER (UIP)

WATER LINE (UIP)

SAN MH (ATG)

GV (ATG)

WV (ATG)

WV'S (ATG)

FH (TBR& RELOCBO)

LP (DND)

LP'S (DND)

LP (TBRR)

SIGN (TBRR)

EDGE OF PARKING LOT

S 69°10'27"W - 210.00' (TO STA. 241+99.84)

S 69°10'27"W - 210.00' (TO STA. 241+96.96)

N 69°10'27"E - 210.00' (TO STA. 241+95.31)

N 01°32'49"E 3.78'

N 01°32'49"E 3.78'

N 01°32'49"E 2.70'

N 01°32'49"E 1.62'

S 69° 10' 27" W

S 69°10'27"W 184.51'

N 69°10'27"E 174.91'

N 69°10'27"E 175.53'

N 01°30'42"E 6.54'

N 01°30'42"E 1.61'

S 1° 30' 42" W 58.47'

S 01°30'42"W 8.01'

N 37°06'20"W 24.73'

S 37°06'20"E 22.87'

S 37°06'20"E 7.60'

N 01°30'42"E 12.51'

N 01°30'42"E 2.84'

S 83°28'55"W 88.25'
(TO STA. 248+18.48)

CURVE R=891.59 & L=90.12'
CHORD N 82°04'52"E & L=90.08'
(TO STA. 248+18.48)

S 75°23'13"W 83.05'

CURVE R=891.59' & L=78.85'
CHORD N 76°39'07"E & L=78.83'

S 69°10'27"W - 133.31'
(TO STA. 242+80.51)

N 69°10'27"E - 149.59'
(TO STA. 242+60.51)

N 69°10'27"E - 150.40'
(TO STA. 242+58.58)

N 00°24'15"W 10.67'

N 00°24'15"W 3.20'

S 00°24'15"E 5.34'

N 69°10'27" E 39.90'

N 20°49'33"W 5.00'

N 69°10'27"E 107.88'

N 20°49'33"W 8.00'

S 69°10'27"W 167.02'

N 69°10'27"E 130.84'

N 69°10'27"E 65.84'

CURVE R=831.59' & L=222.09'
CHORD S 76°49'29"W & L=221.43'
(TO STA. 248+10.94)

CURVE R=826.59' & L=157.49'
CHORD N 74°37'57"E & L=157.25'

N 72°18'15"E 89.75'

S 14°33'51"E 2.00'

N 77°15'52"E 52.31'

N 10°54'24"W 2.00'

CURVE R=829.59' & L=63.45'
CHORD N 82°16'55"E & L=63.44'
(TO STA. 248+10.90)

N 81°35'14"E - 71.50'
(TO STA. 248+05.00)

N 09°54'33"W 3.00'

30' COMMERCIAL ENT. CONC. APPROACH @ 4.00% STA. 244+47.50 LT. (CONC. PV'MT TIE-IN)

30' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 244+67.00 RT. (ASPHALT PV'MT TIE-IN)

34' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 246+93.00 LT. (ASPHALT PV'MT TIE-IN)

30' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 247+00.00 RT. (CONC. PV'MT TIE-IN)

CURVE 23 - ROUTE 100

PI	247+00.41
PC	245+80.84
PT	248+18.47
Δ	15° 48' 09.5" (RT)
D	6° 39' 00.0"
L	237.63'
T	119.58'
R	861.59'

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DISCLAIMER

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① CURVE R=891.59' & L=8.98'
CHORD N 69°27'45"E & L=8.98'

② CURVE R=893.09' & L=9.59'
CHORD N 69°28'54"E & L=9.59'

③ CURVE R=22.50' & L=9.95'
CHORD N 75°56'29"W & L=9.87'

④ CURVE R=893.89' & L=40.24'
CHORD S 75°18'55"W & L=40.23'

⑤ CURVE R=894.31' & L=33.64'
CHORD S 77°40'56"W & L=33.63'

⑥ CURVE R=894.31' & L=28.04'
CHORD S 79°39'29"W & L=28.04'

⑦ CURVE R=894.49' & L=61.79'
CHORD S 82°32'07"W & L=61.78'
(TO STA. 248+18.48)

SCALE
0 20 40 60

DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	119
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6800
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 43 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\119_RW_43_J6S1718_I20.dgn 11:34:19 AM 3/6/2020

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SEC. 30 & 31, T45N, R6E

218
SEE RIGHT OF WAY PLAN SHEET 37

219
A.C. MANCHESTER I, L.L.C.
159 S.F. PERM. ESM'T.
1,725 S.F. TEMP. ESM'T.
20,506 S.F. REMAINING

220
BRANNAN/WILLIAMS HOLDINGS LLC
224 S.F. PERM. ESM'T.
1,253 S.F. TEMP. ESM'T.
35,258 S.F. REMAINING

221
TWENTY SEVEN FORTY FIVE REALTY CO.
1,020 S.F. PERM. ESM'T.
1,665 S.F. TEMP. ESM'T.
42,174 S.F. REMAINING

226
FIFTH THIRD BANK
600 S.F. PERM. ESM'T.
3,140 S.F. TEMP. ESM'T.
34,985 S.F. REMAINING

227
GENERAL GRANT REALTY CO.
1,702 S.F. PERM. ESM'T.
5,335 S.F. TEMP. ESM'T.
128,684 S.F. REMAINING

PT STA 266+95.84
EXIST. R/W
ANDREW DRIVE CURVE 1
33' WIDE ASPHALT PV'MT. @ 1.01%
STA. 278+25.62 LT. (ROUTE 100) = STA. 265+00.00 (ANDREW DR)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
SLOPE LIMITS
SEE RIGHT OF WAY PLAN SHEET NO. 37
28' COMMERCIAL ENT. CONC. APPROACH @ 3.00% STA. 219+54.50 LT. (ASPHALT PV'MT TIE-IN)
22.5' COMMERCIAL ENT. CONC. APPROACH @ 3.50% STA. 219+95.00 LT. (CONCRETE PV'MT TIE-IN)
25' COMMERCIAL ENT. CONC. APPROACH @ 8.00% STA. 221+01.00 LT. (ASPHALT PV'MT TIE-IN)
35.5' COMMERCIAL ENT. CONC. APPROACH @ 0.30% STA. 221+66.75 LT. (ASPHALT PV'MT TIE-IN)
10' MSD ESM'T. (VACATED)
10' MSD ESM'T.
CURVE R=2368.80' & L=59.67'
CHORD S 71°30'32"W & L=59.67'
(TO STA. 222+97.61)
CURVE R=2364.80' & L=65.42'
CHORD N 71°34'47"E & L=65.42'
(TO STA. 223+03.36)
PC STA 222+39.10
BURIED FO CABLE (MCI) (TBR&RELOCBO)
BURIED POWER (UIP)
MATCHLINE STA. 217+50.00
MATCHLINE STA. 222+50.00
PC STA 265+00.00
℄ ROUTE 100
ANDREW DRIVE (SEE RIGHT OF WAY PLAN SHEET 37 FOR SIDEROAD NOTE)
20' INGRESS/ EGRESS ESM'T.
24' COMMERCIAL ENT. CONC. APPROACH @ 7.00% STA. 219+00.00 RT. (ASPHALT PV'MT TIE-IN)
36' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 219+73.00 RT. (ASPHALT PV'MT TIE-IN)
PROP. WALL (SMALL BLOCK) & PED. FENCE
CURVE R=2292.80' & L=61.87'
CHORD S 71°33'37"W & L=61.87'
(TO STA. 223+01.78)
CURVE R=2287.80' & L=56.28'
CHORD N 71°29'31"E & L=56.28'
(TO STA. 222+96.24)
N 71°00'20"E - 138.10'
(TO STA. 222+89.00)

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

CURVE 1 – ANDREW DR

PI	265+99.29
PC	265+00.00
PT	266+95.84
Δ	23° 19' 40.4" (RT)
D	11° 54' 42.5"
L	195.84'
T	99.29'
R	481.00'

① CURVE R=506.00' & L=5.00'
CHORD N 18°58'14"W & L=5.00'
② CURVE R=506.00' & L=16.22'
CHORD N 17°46'08"W & L=16.22'
③ CURVE R=456.00' & L=8.72'
CHORD S 16°45'46"E & L=8.72'
④ CURVE R=15.00' & L=5.60'
CHORD S 27°59'50"E & L=5.56'
⑤ CURVE R=15.00' & L=18.46'
CHORD S 73°56'54"E & L=17.32'

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SCALE
0 20 40 60

DATE PREPARED 3/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 114
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6360
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 38 OF 50

CURVE 24 – ROUTE 100	
PI	249+56.62
PC	248+80.36
PT	250+32.86
Δ	2° 37′ 41.4″ (RT)
D	1° 43′ 24.0″
L	152.50′
T	76.27′
R	3,324.71′

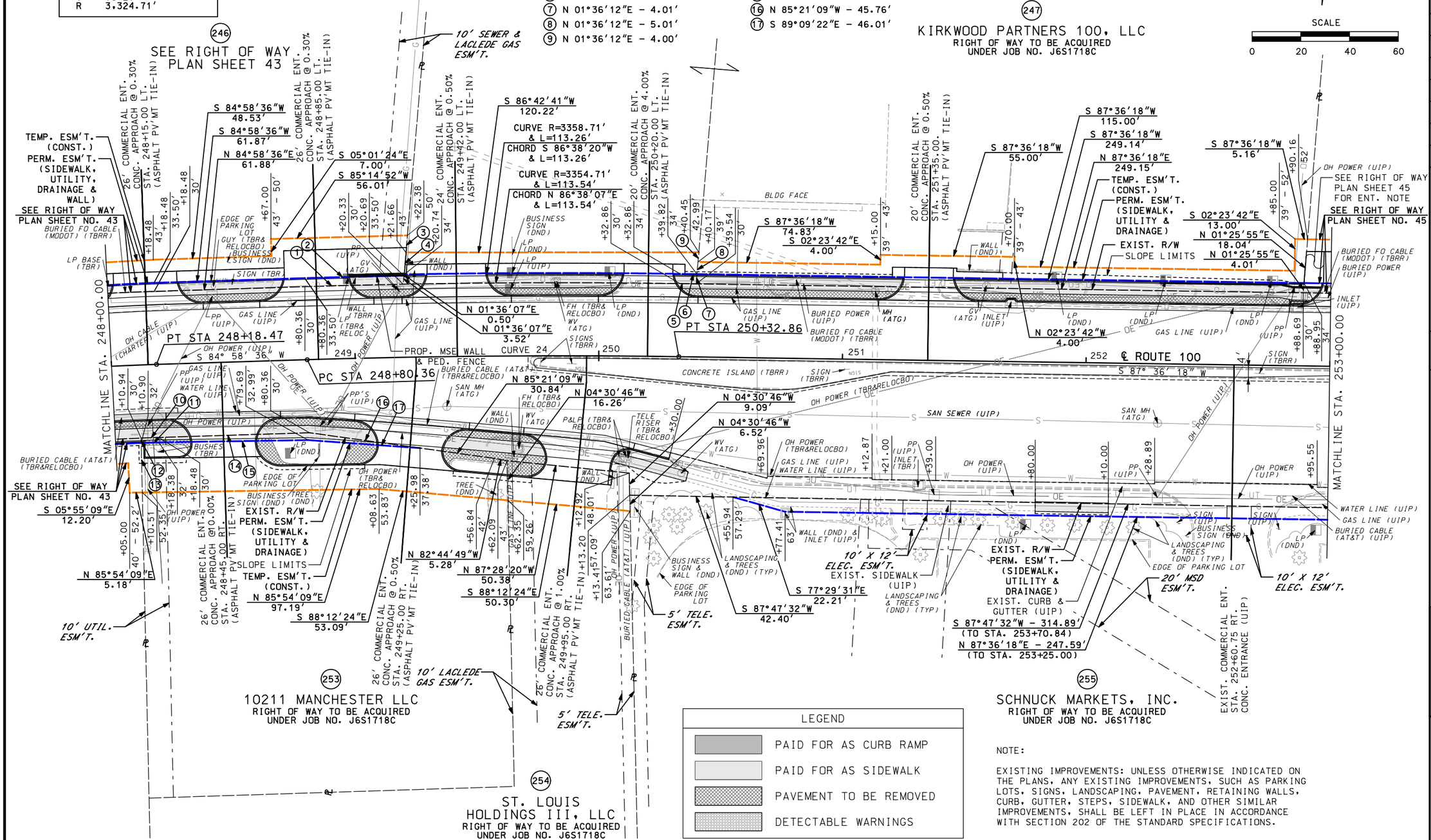
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① CURVE R=3354.71′ & L=40.34′
CHORD N 85°19′16″E & L=40.34′
② CURVE R=3358.21′ & L=40.74′
CHORD S 85°19′27″W & L=40.74′
③ N 01°36′07″E – 9.05′
④ N 01°36′07″E – 7.04′
⑤ N 87°36′18″E – 6.68′
⑥ S 87°36′18″W – 6.96′
⑦ N 01°36′12″E – 4.01′
⑧ N 01°36′12″E – 5.01′
⑨ N 01°36′12″E – 4.00′
⑩ CURVE R=831.59′ & L=7.27′
CHORD S 84°43′34″W & L=7.27′
⑪ CURVE R=829.59′ & L=7.20′
CHORD N 84°43′19″E & L=7.20′
⑫ N 04°30′25″W – 2.00′
⑬ N 04°30′25″W – 20.35′
⑭ S 84°58′36″W – 61.88′
⑮ N 85°54′09″E – 61.32′
⑯ N 85°21′09″W – 45.76′
⑰ S 89°09′22″E – 46.01′

SEC. 31, T45N, R6E

SCALE 0 20 40 60



LEGEND	
	PAID FOR AS CURB RAMP
	PAID FOR AS SIDEWALK
	PAVEMENT TO BE REMOVED
	DETECTABLE WARNINGS

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	120
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION / DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 44 OF 50

REV. •

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CURVE 21 - ROUTE 100	
PI	223+30.70
PC	222+39.10
PT	224+22.21
Δ	4° 31' 00.0" (RT)
D	2° 28' 00.0"
L	183.11'
T	91.60'
R	2,322.80'

(1) S 00°34'51"W - 11.67'
(2) S 00°34'51"W - 9.23'
(3) S 33°10'27"E - 28.29'
(4) N 44°55'31"W - 42.81'
(5) S 88°12'18"E - 20.26'
(6) N 00°34'51"E - 4.66'
(7) N 00°34'51"E - 5.18'
(8) S 00°34'51"W - 5.29'
(9) S 75°18'14"W - 4.28'
(10) S 00°34'51"W - 4.65'
(11) N 00°34'51"E - 6.30'
(12) N 00°34'51"E - 15.33'
(13) S 00°34'51"W - 5.11'
(14) S 78°37'08"W - 5.11'
(15) S 78°37'08"W - 8.18'
(16) N 00°34'51"E - 5.11'
(17) S 17°46'42"E - 7.00'
(18) N 72°21'41"E - 13.13'
(19) N 50°16'16"W - 14.26'
(20) N 50°16'16"W - 6.47'
(21) S 16°41'29"W - 14.25'
(22) S 16°41'29"W - 5.08'
(23) N 74°05'10"E - 11.52'
(24) N 14°41'46"W - 7.00'
(25) CURVE R=2292.80' & L=46.81'
CHORD S 74°43'09"W & L=46.81'
(26) CURVE R=2287.80' & L=42.71'
CHORD N 74°46'09"E & L=42.71'

SEC. 31, T45N, R6E

SEE RIGHT OF WAY PLAN SHEET 38

SEE RIGHT OF WAY PLAN SHEET NO. 38

POT STA 272+00.00

EXIST. R/W

EXIST. SIDEWALK (UIP)

SAPPINGTON ROAD

S 0° 34' 51" W 33' WIDE CONC. PV'MT. STA. 223+32.15 LT. (ROUTE 100) = STA. 270+05.85 (SAPPINGTON RD)

EXIST. SIDEWALK (UIP)

EDGE OF PARKING LOT

SAN SEWER (UIP)

EXIST. R/W

EXIST. SIDEWALK (UIP)

EDGE OF PARKING LOT

N 89°25'09"W 5.00'

N 00°34'51"E 41.63'

S 00°34'51"W 40.16'

N 00°34'51"E 19.35'

S 33°15'29"W 41.39'

S 33°15'29"W 38.16'

N 42°15'12"E 23.36'

BUSINESS SIGN & LANDSCAPING (DND)

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

EXIST. R/W.

GAS LINE (UIP)

BURIED FO CABLE (MCI) (TBR&RELOCBO)

BURIED FO CABLE (MODOT) (UIP)

SAN SEWER (UIP)

WV (ATG)

TREES (DND)

GAS LINE (UIP)

TELE RISER (TBR&RELOCBO)

PP (TBR& RELOCBO)

PP (TBR& RELOC)

SIGNAL POST (TBR)

WV (ATG)

SIGNAL EQUIP. (UIP)

GUY (TBR&RELOCBO)

FH (TBR& RELOCBO)

WV (ATG)

LANDSCAPING (TBR)

SIGN (TBR)

PB'S (UIP)

SIGNAL POST (TBR)

INLET (TBR)

SAN MH (ATG)

GAS LINE (UIP)

SAN SEWER (UIP)

TMH (ATG)

SIGNAL EQUIP. (UIP)

BURIED CABLE (AT&T) (UIP)

BURIED POWER (UIP)

CONCRETE ISLAND (TBRR)

PB (UIP)

SIGNAL POST (UIP)

223 CURVE 21

PI STA 270+05.85 (SAPPINGTON RD) = STA. 223+32.15 (ROUTE 100)

PI STA 270+00.00 (SAPPINGTON RD) = STA. 223+38.00 (ROUTE 100)

PT STA 224+22.21

MATCHLINE STA. 222+50.00

MATCHLINE STA. 227+50.00

P&LP (UIP)

GUY (TBR&RELOCBO)

GUY (UIP)

WV (ATG)

GV (ATG)

OH POWER (UIP)

LP (TBRR) (MODOT)

PB (UIP)

GAS LINE (UIP)

WATER LINE (UIP)

PROP. WALL (SMALL BLOCK) & PED. FENCE

SEE RIGHT OF WAY PLAN SHEET NO. 38

EXIST. R/W

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

TEMP. ESM'T. (CONST.)

S 48°17'35"E 17.39'

10' SOUTHWESTERN BELL ESM'T.

5' UTIL. ESM'T.

10' UNION ELEC. ESM'T.

INGRESS/ EGRESS ESM'T.

POT STA 269+00.00

S 16° 46' 24" E

S 71°54'47"W 49.97'

N 75°11'59"E 131.39'

N 14°41'46"W 21.50'

40' COMMERCIAL SIGNALIZED ENT. CONC. PV'MT. W/ ASPH. OVERLAY @ 2.00% STA. 223+38.00 RT. (ROUTE 100) = STA. 270+00.00 (SAPPINGTON RD)

SEE RIGHT OF WAY PLAN SHEET 38

222

WAYCLIFFE DEVELOPMENT CORP.
1,107 S.F. PERM. ESM'T.
707 S.F. TEMP. ESM'T.
44,806 S.F. REMAINING

N 89°25'09"W 10.00'

N 00°34'51"E 13.79'

N 44°55'31"W 29.88'

TEMP. ESM'T. (CONST.)

S 75°18'14"W 14.44'

S 75°18'14"W 95.04'

N 75°18'14"E 161.41'

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

EXIST. R/W

SLOPE LIMITS

EDGE OF PARKING LOT

N 14°45'02"W 6.50'

LANDSCAPING (TBR)

SIGN (TBR)

S 75°18'14"W 17.03'

S 14°41'46"E 5.00'

BURIED FO CABLE (MODOT) (UIP)

BURIED POWER (UIP)

BURIED FO CABLE (MODOT)(TBR& RELOCBO)

10' STLCO WATER ESM'T.

WATER LINE (UIP)

BUSINESS SIGN (DND)

LP (TBRR) (MODOT)

PB (UIP)

WV (ATG)

GAS LINE (UIP)

SIGNAL POST (UIP)

LANDSCAPING (TBR)

BUSINESS SIGN (DND)

LANDSCAPING (TBR)

28' COMMERCIAL ENT. CONC. APPROACH @ 7.50% STA. 224+41.50 RT. (CONC. PV'MT TIE-IN)

S 75°18'14"W 95.04'

S 75°18'14"W 56.35'

S 75°18'14"W 54.98'

26' COMMERCIAL ENT. CONC. APPROACH @ 6.00% STA. 225+46.00 LT. (CONCRETE PV'MT TIE-IN)

5' SOUTHWESTERN BELL ESM'T.

BURIED CABLE (AT&T) (UIP)

WALL (DND)

P&LP (UIP)

PB (UIP)

MATTRESS-TECH NON-LIGHTED SIGN (TBR&RELOCBO)

BUSINESS SIGN (DND)

WM'S (ATG)

LP (DND)

LP (TBRR) (MODOT)

BURIED CABLE (AT&T) (UIP)

GV (ATG)

PROP. WALL (SMALL BLOCK)

RECONSTRUCT PORTION OF WALL & TIE TO PROP. WALL

℄ ROUTE 100

OH POWER (UIP)

SAN MH (ATG)

SAN SEWER (UIP)

BURIED CABLE (AT&T) (UIP)

PI STA 226+06.33

223

9/6/17 M & S, L.C.
674 S.F. PERM. ESM'T.
1,254 S.F. TEMP. ESM'T.
25,445 S.F. REMAINING

40' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 226+31.00 LT. (ASPHALT PV'MT TIE-IN)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

S 78°37'08"W 117.71'

S 78°37'08"W 118.60'

N 79°15'10"E 122.54'

WV (UIP) WM'S (TBR& RELOCBO)

WV (ATG)

TREES (DND)

224

UNION ELECTRIC COMPANY
669 S.F. PERM. ESM'T.
788 S.F. TEMP. ESM'T.
15,985 S.F. REMAINING

S 78°37'08"W - 66.50' (TO STA. 227+69.39)

S 78°37'08"W - 74.72' (TO STA. 227+66.85)

N 75°56'27"E - 75.58' (TO STA. 227+65.03)

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

SEE RIGHT OF WAY PLAN SHEET 40 FOR ENTRANCE INFORMATION

PP (UIP)

BURIED FO CABLE (MODOT) (TBR& RELOCBO)

BURIED POWER (UIP)

BURIED FO CABLE (MODOT) (UIP)

WALL (DND)

BURIED CABLE (AMEREN)

BURIED CABLE (AT&T) (UIP)

WATER LINE (UIP)

BURIED TELE CABLE (TBR&RELOCBO)

S 75°56'27"W - 400.85' (TO STA. 230+07.35)

N 75°56'27"E - 400.80' (TO STA. 230+07.35)

N 75°56'27"E - 238.00' (TO STA. 229+63.00)

N 14°03'33"W 11.00'

N 75°56'27"E 60.00'

BOZZAY FLORIST LIGHTED SIGN (TBR&RELOCBO)

38' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 226+92.50 RT. (ASPHALT PV'MT TIE-IN)

S 14°03'33"E 5.00'

N 75°56'27"E 58.39'

WHEEL STOPS (TBR) (TYP)

GAS LINE (UIP)

GV (ATG)

OH POWER (UIP)

PP (UIP)

SIGN (TBR)

PP & GUY (UIP)

PROP. MSE WALL TIE TO EXIST. WALL

SLOPE LIMITS
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)
TEMP. ESM'T. (CONST.)

S 75°18'14"W 128.27'
N 75°18'14"E 130.92'
N 75°18'14"E 133.83'

229

CROWN DIVERSIFIED INDUSTRIES CORP.
6,554 S.F. PERM. ESM'T.
6,384 S.F. TEMP. ESM'T.
256,138 S.F. REMAINING

N 00°24'57"E 5.18'
N 00°24'57"E 3.63'
N 00°24'57"E 1.55'
S 00°24'57"W 11.39'

S 75°18'14"W 55.68'
N 75°18'14"E 54.33'
N 75°18'14"E 43.09'

KING (DOH CHINESE LIGHTED SIGN (TBR&RELOCBO)

EXTEND CONCRETE ISLAND

BLOCK ADVISORS LIGHTED SIGN (TBR&RELOCBO)

WALL (DND)

BUSINESS SIGN (DND)

LANDSCAPING (TBR)

EDGE OF PARKING LOT

227

SEE RIGHT OF WAY PLAN SHEET 38

SCALE
0 20 40 60

NOTE:

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LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED	
3/5/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	115
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 39 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\121_RW_39_J6S1718_120.dgn 2:54:20 PM 3/5/2020

① CURVE R=55.00' & L=50.95'
CHORD N 61°04'08"E & L=49.14'

② CURVE R=81.00' & L=42.78'
CHORD S 52°34'42"W & L=42.29'

③ CURVE R=75.00' & L=57.28'
CHORD S 52°27'47"W & L=55.90'

④ N 01°20'26"E – 3.16'

⑤ N 01°20'26"E – 11.09'

⑥ CURVE R=70.00' & L=106.96'
CHORD S 48°37'21"E & L=96.85'

⑦ CURVE R=73.00' & L=72.48'
CHORD N 36°36'25"W & L=69.54'

⑧ S 05°00'42"E – 20.26'

⑨ N 08°09'54"W – 14.46'

⑩ S 05°00'42"E – 31.35'

⑪ CURVE R=50.00' & L=53.68'
CHORD N 61°27'06"W & L=51.14'

⑫ CURVE R=44.00' & L=48.03'
CHORD S 61°07'28"E & L=45.68'

⑬ N 59°18'16"E – 4.43'

⑭ CURVE R=50.00' & L=14.28'
CHORD N 22°30'55"W & L=14.23'

NOTE:

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30' COMMERCIAL ENT.
CONC. APPROACH @ 6.00%
STA. 306+79.21 LT.
(WOODLAWN AVE)
(ASPHALT PV'MT TIE-IN)

(249)
10260 MANCHESTER, LLC
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718C

30' COMMERCIAL ENT.
CONC. APPR. @ 10.00%
STA. 253+12.00 LT.
(ASPH. PV'MT TIE-IN)

SEC. 31, T45N, R6E

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

✱ STATIONING BASED ON WOODLAWN AVE

(256)
SEE BELOW

(250)
BROWN & SONS FOODLINER, INC.
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718C

SEC. 36, T45N, R5E

(255)
SEE RIGHT OF WAY PLAN SHEET 44

SEE RIGHT OF WAY PLAN SHEET NO. 44

SEE RIGHT OF WAY PLAN SHEET NO. 46

CARMELITE SISTERS OF THE DIVINE HEART OF JESUS OF MISSOURI
RIGHT OF WAY TO BE ACQUIRED
UNDER JOB NO. J6S1718C

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LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE
0 20 40 60

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 121
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 45 OF 50

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SEC. 31, T45N, R6E

(224) SEE RIGHT OF WAY PLAN SHEET 39

(225) MERLO AUTOMOTIVE GROUP, INC.
564 S.F. PERM. ESM'T.
1,179 S.F. TEMP. ESM'T.
21,636 S.F. REMAINING

(229) SEE RIGHT OF WAY PLAN SHEET 39

(230) GLENDALE PROPERTY HOLDING, L.L.C.
1,117 S.F. PERM. ESM'T.
5,061 S.F. TEMP. ESM'T.
202,052 S.F. REMAINING

(237) PHP DEVELOPMENT, LLC
796 S.F. PERM. ESM'T.
1,002 S.F. TEMP. ESM'T.
27,372 S.F. REMAINING

① S 00°20'41"W - 7.34'
② S 00°20'41"W - 10.21'
③ S 00°20'41"W - 1.46'
④ S 14°03'33"E - 4.00'
⑤ N 14°03'33"W - 3.50'
⑥ S 16°11'24"E - 1.50'
⑦ S 16°11'24"E - 3.00'
⑧ CURVE R=1358.99' & L=22.50'
CHORD N 73°20'09"E & L=22.50'
⑨ CURVE R=20.00' & L=20.82'
CHORD S 78°46'13"E & L=19.90'
⑩ CURVE R=20.00' & L=5.40'
CHORD N 41°12'07"W & L=5.39'

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CURVE 22 - ROUTE 100	
PI	230+89.46
PC	230+07.35
PT	231+71.39
Δ	6° 46' 00.0" (LT)
D	4° 07' 30.0"
L	164.04'
T	82.12'
R	1,388.99'

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE 0 20 40 60

NOTE:
EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

DATE PREPARED	3/5/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	116
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION / DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 40 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\122_RW_40_J6S1718_120.dgn 2:49:55 PM 3/5/2020

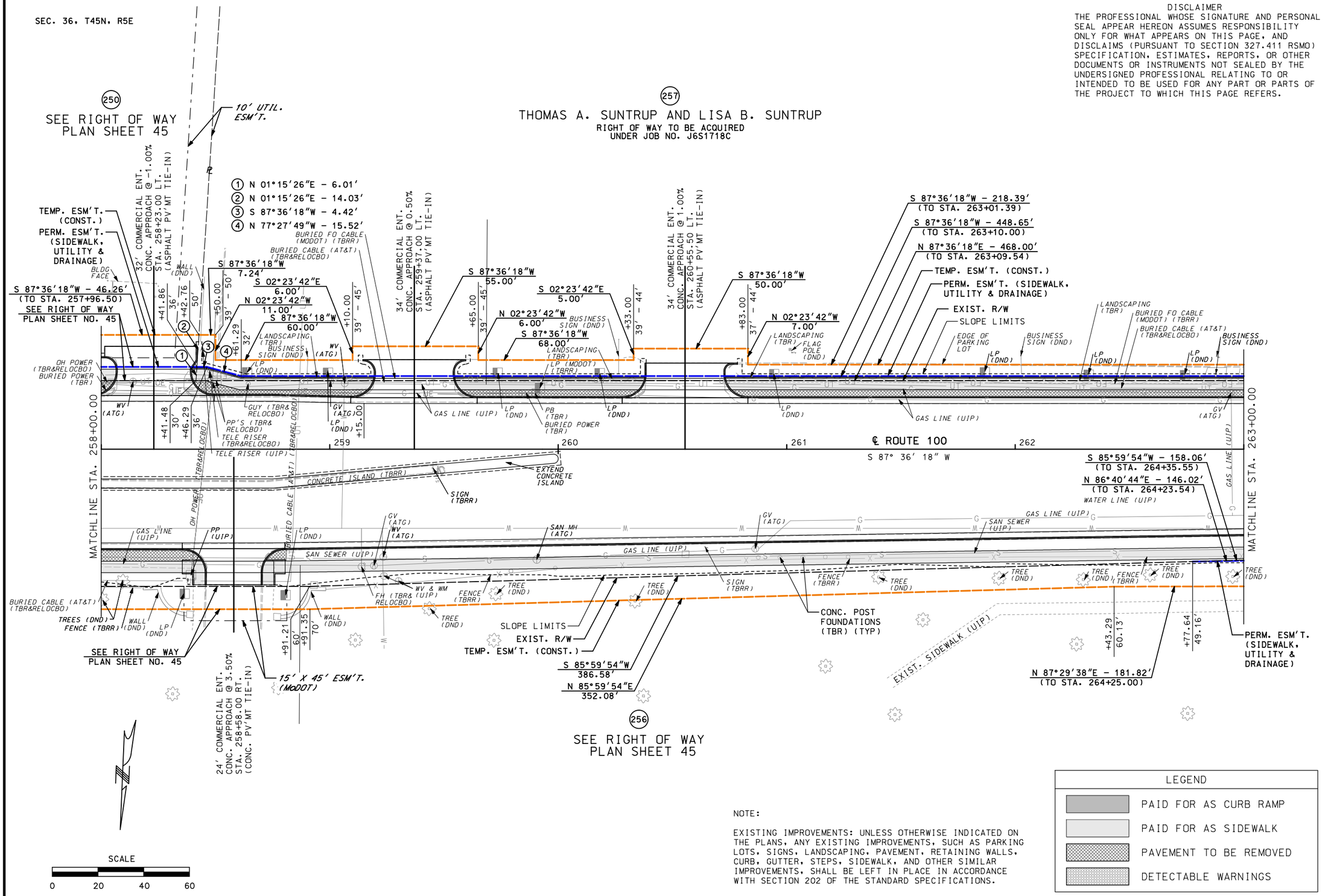
SEC. 36, T45N, R5E

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(250)
SEE RIGHT OF WAY PLAN SHEET 45

(257)
THOMAS A. SUNTRUP AND LISA B. SUNTRUP
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(256)
SEE RIGHT OF WAY PLAN SHEET 45



NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE
0 20 40 60

DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 122
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 46 OF 50

REV.

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SEC. 36, T45N, R5E

(257) SEE RIGHT OF WAY PLAN SHEET 46

(258) S N S LIMITED
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(259) C & B PROPERTIES, L.L.C.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(260) SAINT LOUIS DENT COMPANY LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(256) SEE RIGHT OF WAY PLAN SHEET 45

(263) EZ STORAGE KIRKWOOD, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

WOOD AVENUE
34' WIDE ASPHALT PV'MT. @ 2.91%
STA. 263+54.42 LT. (ROUTE 100)
= STA. 310+00.00 (WOOD AVE)

SYLVAN PLACE
28.5' WIDE ASPHALT PV'MT. @ 1.08%
STA. 315+06.81 LT. (ROUTE 100)
= STA. 265+91.50 (SYLVAN PL)

℄ ROUTE 100

POT STA 316+00.00

POT STA 314+00.00

PI STA 315+00.00 (SYLVAN PL) = STA 265+84.69 (ROUTE 100)

PI STA 315+06.81 (SYLVAN PL) = STA 265+91.50 (ROUTE 100)

PI STA 263+09.51

MATCHLINE STA. 263+00.00

MATCHLINE STA. 268+00.00

155' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 264+80.50 LT. (ASPHALT PV'MT TIE-IN)

66' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 266+75.00 LT. (ASPHALT PV'MT TIE-IN)

36' COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 267+42.00 LT. (ASPHALT PV'MT TIE-IN)

SHOP N' SAVE ENTRANCE (52' WIDTH)
ASPHALT PV'MT. @ -0.68%
STA. 265+84.69 RT. (ROUTE 100)
= STA. 315+00.00 (SYLVAN PL)

① CURVE R=20.00' & L=18.48'
CHORD S 24°37'14"E & L=17.83'

② CURVE R=20.00' & L=14.45'
CHORD S 71°48'05"E & L=14.14'

③ CURVE R=20.00' & L=14.45'
CHORD N 66°47'21"E & L=14.14'

④ CURVE R=20.00' & L=15.58'
CHORD N 23°45'42"E & L=15.19'

⑤ CURVE R=20.00' & L=6.49'
CHORD S 41°48'05"E & L=6.46'

⑥ CURVE R=20.00' & L=14.45'
CHORD S 71°48'05"E & L=14.14'

SCALE 0 20 40 60

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DISCLAIMER
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DATE PREPARED	
3/6/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	123
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 47 OF 50

REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\123_RW_47_J6S1718_120.dgn 11:42:22 AM 3/6/2020

SEC. 36, T45N, R5E

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BERNICE AVENUE
28' WIDE ASPHALT PV'MT. @ 1.16%
STA. 268+26.96 LT. (ROUTE 100)
= STA. 320+00.00 (BERNICE AVE)

CURRAN AVENUE
26' WIDE ASPHALT PV'MT. @ 1.16%
STA. 271+61.01 LT. (ROUTE 100)
= STA. 330+00.00 (CURRAN AVE)

EXIST. R/W

261
WESTERN CONTINENTAL INVESTMENTS, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

262
PENNINGTON/COGGAN HOLDING, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

266
LOUIS H. BOPP, INC.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

267
LOUIS H. BOPP, INC.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

264
EEB KIRK, LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

265
ERIC W. KUHLMANN, TRUSTEE
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

274
WAYLAND LAND CO.
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

℄ ROUTE 100

MATCHLINE STA. 268+00.00

MATCHLINE STA. 273+00.00

PI STA 268+11.41

SEE RIGHT OF WAY PLAN SHEET NO. 47

SEE RIGHT OF WAY PLAN SHEET NO. 49

EXIST. SIDEWALK (UIP)

S 88°09'12"W 20.06'
N 88°09'12"E 20.55'

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

PROP. WALL (SMALL BLOCK)

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

GAS LINE (UIP)

OH POWER (UIP)

S 0° 56' 27" W

S 88°09'12"W 100.10'
N 88°09'12"E 79.52'

S 88°09'12"W 82.61'
S 86°43'16"W 57.45'
N 88°09'12"E 57.37'
N 01°02'20"E 15.02'
N 88°09'12"E 25.35'

S 88°09'12"W 100.10'
S 86°43'16"W 100.22'
N 88°09'12"E 100.07'

EXIST. SIDEWALK (UIP)

EDGE OF PARKING LOT

EDGE OF EXIST. PV'MT.

TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

EXIST. R/W

SLOPE LIMITS

BUSINESS SIGN (DND)

SIDEWALK

10' UTIL. ESM'T.

LP (DND)

S 88°09'12"W 16.66'

S 87°22'10"W 94.10'

N 88°09'12"E - 127.96' (TO STA. 273+15.77)

LANDSCAPING (TBR)

EDGE OF PARKING LOT

BURIED CABLE (AT&T) (TBR&RELOCBO)

BURIED FO CABLE (MODOT) (TBRR)

SIGN (TBRR)

SIGNS (TBRR) LP (TBRR) (MODOT)

N 01°50'48"W 10.00'

BUS STOP SIGN (TBRRBO)

BUSHES (TBR)

N 00°35'56"E 13.58'
N 00°35'56"E 1.44'

N 00°41'49"E 11.07'
N 00°41'49"E 3.94'

N 01°50'48"W 6.24'
S 00°41'49"W 12.01'

PROP. WALL (SMALL BLOCK)

GUY (UIP)
S 88°09'12"W 68.53'
N 88°09'12"E 72.56'

TREE (DND)

EDGE OF PARKING LOT

INLET (UIP)

N 88°09'12"E 74.22'

BUSINESS SIGN & LANDSCAPING (DND)

10' SEWER ESM'T.

S 01°50'48"E 23.00'

TEMP. ESM'T. (CONST.)

N 88°09'12"E 19.93'

12' ROADWAY ESM'T. (CITY OF KIRKWOOD)

5' SIDEWALK ESM'T.

20' INGRESS/ EGRESS ESM'T.

EXIST. R/W

LYNCHESTER LANE
25' WIDE ASPHALT PV'MT. @ 0.84%
STA. 269+08.66 RT. (ROUTE 100)
= STA. 325+00.00 (LYNCHESTER LN)

PROP. (MOD. CURB & PED. FENCE)

N 00°38'16"E 8.01'
N 00°38'16"E 5.00'

BUSINESS SIGN, WALL & LANDSCAPING (DND)

N 00°38'16"E 7.01'
N 01°50'48"W 11.00'

MULCH (TBR) & LANDSCAPING (DND)

N 89°35'07"E 54.60'
S 01°50'48"E 4.50'

N 01°50'48"W 5.36'
N 01°50'48"W 4.64'

GAS LINE (UIP)
WATER LINE (UIP)
LP (DND)

S 88°09'12"W 85.64'
N 88°09'12"E 92.64'

PROP. WALL (SMALL BLOCK) & PED. FENCE

BLDG FACE

N 88°09'12"E 54.50'
N 01°50'48"W 13.00'

N 88°09'12"E 46.06'

20' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 269+50.00 RT. (ASPHALT PV'MT TIE-IN)

30' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 270+40.50 RT. (ASPHALT PV'MT TIE-IN)

N 88°09'12"E 10.28'

N 88°09'12"E 50.50'

BUSINESS SIGN (DND)
N 01°50'48"W 6.50'

FLAG POLE (DND)

S 88°09'12"W 174.20'
N 88°09'12"E 109.99'
N 88°09'12"E 105.00'

28' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 272+06.00 RT. (ASPHALT PV'MT TIE-IN)

N 01°50'48"W 4.50'
N 88°09'12"E 50.00'

WV & WM (UIP)
BLDG FACE
WALL (DND)
LANDSCAPING (DND)

EXIST. R/W
TEMP. ESM'T. (CONST.)
S 88°09'12"W - 113.15' (TO STA. 273+07.72)
N 88°09'12"E - 82.69' (TO STA. 273+07.69)

NOTE:
EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

SCALE
0 20 40 60

1. S 48°32'54"W - 14.00'
2. CURVE R=20.00' & L=15.76' CHORD N 23°30'45"E & L=15.35'
3. CURVE R=20.00' & L=14.45' CHORD N 66°47'21"E & L=14.14' (TO STA. 267+95.92)
4. S 00°56'27"W - 10.01'
5. S 00°56'27"W - 5.01'
6. S 01°04'03"W - 4.01'
7. S 01°04'03"W - 6.01'
8. S 01°04'03"W - 15.04'
9. N 01°04'03"E - 4.07'
10. S 45°36'28"E - 5.54'
11. S 45°36'28"E - 11.80'
12. N 88°09'12"E - 26.54'
13. N 00°37'52"E - 13.14'
14. S 89°22'08"E - 14.00'
15. N 00°37'52"W - 19.89'
16. S 00°37'52"W - 18.67'
17. S 00°37'52"W - 14.36'
18. N 44°23'32"E - 10.63'
19. S 88°09'12"W - 14.36'
20. N 44°23'32"E - 10.12'

LEGEND
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

DATE PREPARED	
3/6/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	124
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY PLAN
ROUTE 100
SHEET 48 OF 50

REV.

SEC. 36, T45N, R5E

CURVE 25 – ROUTE 100	
PI	274+53.85
PC	273+49.58
PT	275+57.67
Δ	9° 19′ 37.9″ (LT)
D	4° 28′ 55.9″
L	208.09′
T	104.28′
R	1,278.30′

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

(267)

SEE RIGHT OF WAY PLAN SHEET 48

SEE RIGHT OF WAY PLAN SHEET NO. 48

SEE RIGHT OF WAY PLAN SHEET NO. 48

(268)

KIRKWOOD SQUARE LLC

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(275)

LOU FUSZ PROPERTIES, L.L.C.

RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

10′ UTIL. ESM′T.

TEMP. ESM′T. (CONST.)

PERM. ESM′T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

EXIST. R/W

SLOPE LIMITS

PROP. WALL (SMALL BLOCK)

EXIST. SIDEWALK (UIP)

TAYLOR AVENUE
33.5′ WIDE CONCRETE PV′MT. @ 6.97%
STA. 274+87.21 LT. (ROUTE 100)
= STA. 335+00.00 (TAYLOR AVE)

PC STA 273+49.58

PT STA 275+57.67

MATCHLINE STA. 273+00.00

MATCHLINE STA. 278+00.00

N 89°09′41″W 5.00′

S 00°42′49″W 31.98′

N 00°42′49″E 38.22′

S 86°35′17″W – 154.84′ (TO STA. 272+99.09)

S 0° 42′ 49″ W

CURVE R=1238.30′ & L=33.80′
CHORD N 88°09′12″E & L=33.80′

S 86°35′17″W 126.17′

CURVE R=1238.30′ & L=92.41′
CHORD N 86°00′56″E & L=92.38′

N 88°09′12″E 41.85′

CURVE 25

CURVE R=1238.30′ & L=16.75′
CHORD N 83°29′24″E & L=16.75′

℄ ROUTE 100
S 78° 49′ 34″ W

N 01°14′28″W 3.50′
S 01°14′28″E 5.50′

N 86°46′24″E 48.63′

N 02°45′45″W 5.00′

N 87°59′58″E 63.15′

N 81°51′49″E 116.84′

CURVE R=1318.30′ & L=214.61′
CHORD S 83°29′23″W & L=214.37′

N 79°12′46″E 46.09′

S 09°56′02″E 7.50′

N 11°10′26″W 5.50′

EXIST. R/W
TEMP. ESM′T. (CONST.)
N 78°49′34″E 199.00′

S 78°49′34″W – 259.24′ (TO STA. 278+16.91)

S 11°10′26″E 12.50′

N 78°49′34″E – 51.00′ (TO STA. 278+25.00)

EXIST. COMMERCIAL ENT. STA. 276+90.00 LT. CONC. ENTRANCE (UIP)

38′ COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 273+47.00 RT. (ASPHALT PV′MT TIE-IN)

30′ COMMERCIAL ENT. CONC. APPROACH @ 1.00% STA. 275+54.50 RT. (ASPHALT PV′MT TIE-IN)

36′ COMMERCIAL ENT. CONC. APPROACH @ 5.50% STA. 277+49.50 RT. (ASPHALT PV′MT TIE-IN)

SCALE
0 20 40 60

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

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DATE PREPARED 3/6/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 125
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001539

RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 49 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\125_RW_49_J6S1718_I20.dgn 11:50:25 AM 3/6/2020

SEC. 36, T45N, R5E

CERTIFIED LAND SURVEY TIE #10

Commencing at an Iron Pipe in the southeast corner of Lot A in Houser Consolidation Plat One recorded in Book 356, Page 644 in St. Louis County Recorder of Deeds office (or along northside of the Route 100 Right of Way Line in the southeast corner of Parcel 276) to Route 100 ℄ Sta. 279+07.26, S 11° 10' 26" E a distance of 48.16 feet in Section 36, T45N, R5E.

SCALE
0 20 40 60

(271) THE ESTHER D. FIGUEROA TRUST
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

(270) MLSE II LLC
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

END IMPROVEMENTS STA. 340+98.87

20' COMMERCIAL ENT. CONC. APPROACH @ 10.00% STA. 280+50.00 LT. (ASPHALT PV'MT TIE-IN)

LINDBERGH BOULEVARD
23' WIDE ASPHALT PV'MT. (MILL & FILL) @ -0.85%
STA. 279+50.88 LT. (ROUTE 100)
= STA. 340+00.00 (LINDBERGH BLVD)

EXIST. R/W
EXIST. SIDEWALK (UIP)
EXIST. COMMERCIAL ENT. STA. 278+53.50 LT. CONC. ENTRANCE (UIP)
EXIST. SIDEWALK (UIP)
EXIST. CURB & GUTTER (UIP)
EXIST. R/W
LANDSCAPING (DND)
BUSINESS SIGN (DND)
GAS LINE (UIP)
WALL (DND)
SIGNS (UIP)
INLET (UIP)
LP (UIP)
BURIED FO CABLE (MODOT) (UIP)
BURIED CABLE (CHARTER) (UIP)
SIGN (TBRR)
TRESS (DND) (TYP)
FENCE (DND)
EDGE OF PARKING LOT
TELE RISER (UIP)
SIGN (UIP)
BURIED POWER (UIP)
GUARDRAIL (UIP)
WALL (DND)
BURIED FO CABLE (MODOT) (TBR&RELOCBO)
BURIED CABLE (AT&T) (TBR&RELOCBO)
CONCRETE ISLAND (TBRR)
TEMP. ESM'T. (CONST.)
SLOPE LIMITS
FLAG POLE (DND)
BLDG FACE
WM & WV (UIP)
TMH (UIP)
BURIED TELE CABLE (UIP)

S 38° 34' 25" W
S 01°02'27"W 10.23'
N 78°49'34"E 58.58'
S 78°49'34"W 68.80'
N 39°54'21"E 15.92'
S 78° 49' 34" W
S 1° 02' 27" W

+15.27 87.27'
+69.07 58'
+66.90 48'
+37.87 58'
+52.65 69.93'
+26.55 40'
+25.48 48'
345

POT1 STA 281+98.98
EQUATION:
Sta 281+95.56 BK =
Sta 281+98.98 AH
POT STA 283+00.00

℄ ROUTE 100
PI STA 281+80.83
END PROJECT STA. 281+06.00

MATCHLINE STA. 278+00.00

SEE RIGHT OF WAY PLAN SHEET NO. 49
STA. 279+07.26 ℄ ROUTE 100
CERTIFIED LAND SURVEY TIE #10
S 11° 10' 26" E 48.16'

WATER LINE (UIP)
LANDSCAPING (TBR)
SAN SEWER (UIP)
GV (UIP)
SIGN (TBRR)
GAS LINE (UIP)
GV (ATG)
SAN MH (ATG)
INLET (UIP)
PARKING BLOCKS (TBR)
WV (ATG)
BURIED POWER (UIP)
LP (UIP)
SAN MH (UIP)
GAS LINE (UIP)
SAN SEWER (UIP)
WATER LINE (UIP)
SIGN (TBRR)
TREE (DND)
LANDSCAPING (TBR)
WALL & FENCE (DND)
LANDSCAPING (DND)
SLOPE LIMITS
EXIST. R/W
TEMP. ESM'T. (CONST.)
10' UTIL. ESM'T.
EDGE OF PARKING LOT
EXIST. SIDEWALK (UIP)
10' UTIL. ESM'T.
SIGN (DND)

+70.00
+16.91 40' - 48'
+25.00 52' - 57.5'
+07.31 48'
+07.31 52'
+23.00 52' - 58.5'
+66.00 53' - 58.5'
+09.87 48'
+14.59 53'
+28.37 67.60'

N 11°10'26"W 8.00'
N 11°10'26"W 5.50'
S 78°49'34"W 90.41'
N 78°49'34"E 82.31'
N 11°05'14"W 4.00'
N 78°49'34"E 15.69'
S 11°10'26"E 6.50'
N 11°10'26"W 5.50'
N 78°49'34"E 43.00'
S 78°49'34"W 202.56'
N 78°49'34"E 148.59'
N 54°30'32"W 6.87'

279 280 281 282

PI STA 345+00.00 (LINDBERGH BLVD) = STA 281+88.67 (ROUTE 100)
PI STA 345+02.06 (LINDBERGH BLVD) = STA 281+86.61 (ROUTE 100)

LINDBERGH BOULEVARD
S 0° 26' 08" W
EXIST. R/W

SEE RIGHT OF WAY PLAN SHEET 49 FOR ENT. NOTE

(275) SEE RIGHT OF WAY PLAN SHEET 49

26' COMMERCIAL ENT. CONC. APPROACH @ 0.50% STA. 279+43.00 RT. (ASPHALT PV'MT TIE-IN)

(276) LINCOLN INVESTMENT COMPANY
RIGHT OF WAY TO BE ACQUIRED UNDER JOB NO. J6S1718C

LEGEND

- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

NOTE:

EXISTING IMPROVEMENTS: UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

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DATE PREPARED	3/6/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	126
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

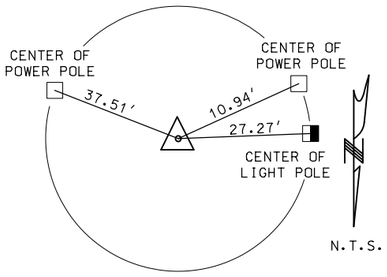
DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

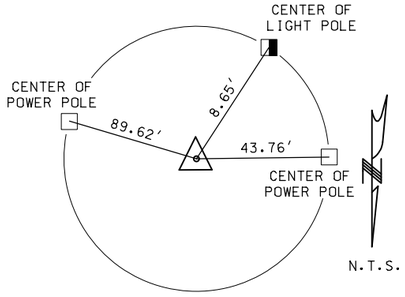
RIGHT-OF-WAY PLAN
ROUTE 100
SHEET 50 OF 50

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\OLD Root Job Brentwood Kirkwood Plan Sheets\126_RW_50_J6S1718_120.dgn 11:49:26 AM 3/6/2020



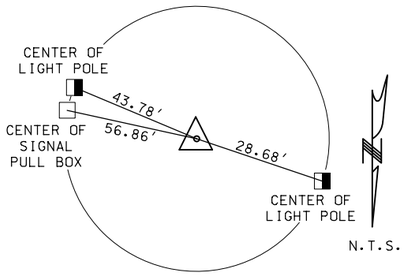
CONTROL POINT #856
ELEV. 507.38

FOUND CUT X
N = 1011938.58
E = 870668.05
ROUTE 100 STA. = 0+86.63
OFFSET = 32.91' RT



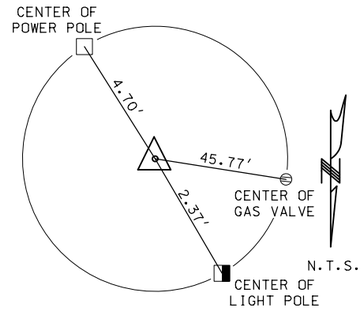
CONTROL POINT #848
ELEV. 508.81

IRC
N = 1012009.77
E = 870320.95
ROUTE 100 STA. = 4+40.54
OFFSET = 35.85' LT



CONTROL POINT #847
ELEV. 507.86

CUT X
N = 1012034.82
E = 869847.73
ROUTE 100 STA. = 9+09.81
OFFSET = 29.98' LT



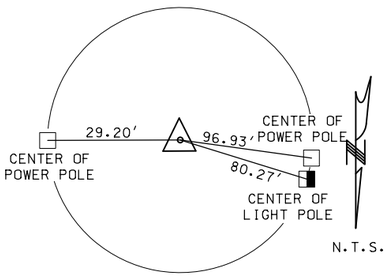
CONTROL POINT #846
ELEV. 497.60

SET PK
N=1012110.81
E=869464.72
ROUTE 100 = 13+00.29
OFFSET = 28.77' LT

GENERAL NOTES:

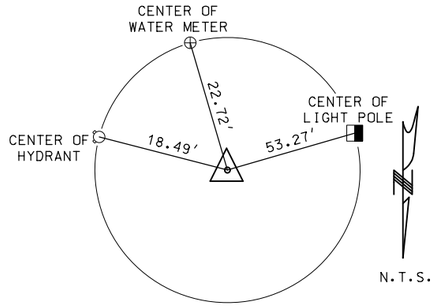
BASIS OF BEARINGS AND COORDINATES: ALL DISTANCES AND COORDINATES SHOWN HEREON ARE GROUND (GRID SCALED) VALUES, AND REFERENCED TO MISSOURI STATE PLANE COORDINATE SYSTEM, EAST ZONE.

LINEAR UNIT: US SURVEY FEET (SFT)
GEODETIC DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88 (GEOID 12A)
PROJECT LOCATION:
LATITUDE: 38°36'33.72146"N NORTHING: 1010751.409 SFT
LONGITUDE: 90°21'49.37394"W EASTING: 859150.945 SFT
HEIGHT: 415.52 SFTELEV.: 517.54 SFT
CM SCALE FACTOR: 1.0000847688



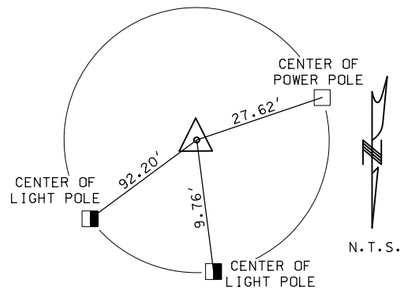
CONTROL POINT #844
ELEV. 458.00

CUT X
N = 1012332.89
E = 868611.06
ROUTE 100 = 21+77.35
OFFSET = 29.03' RT



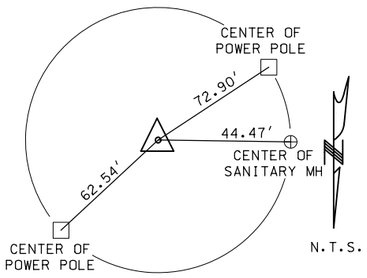
CONTROL POINT #8067

CUT X
N = 1012227.06
E = 868217.78
ROUTE 100 STA. = 25+82.08
OFFSET = 30.01' LT



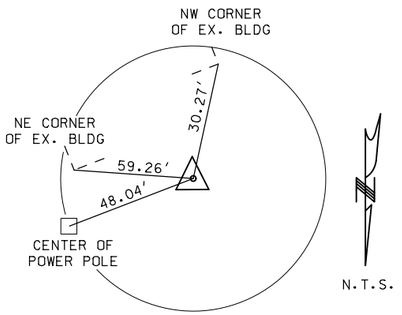
CONTROL POINT #843
ELEV. 446.03

IRC
N = 1012198.61
E = 867978.25
ROUTE 100 STA. = 28+14.70
OFFSET = 33.90' RT



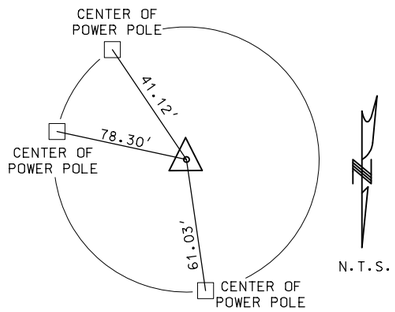
CONTROL POINT #841
ELEV. 445.56

CUT X
N = 1011878.67
E = 867531.72
ROUTE 100 STA. = 33+60.27
OFFSET = 36.46' RT



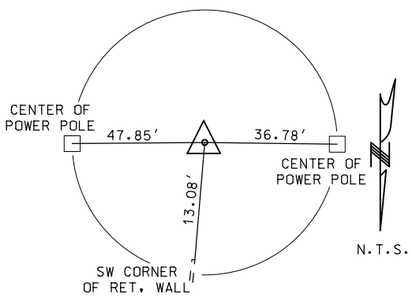
CONTROL POINT #840
ELEV. 447.29

IRC
N = 1011663.18
E = 867314.36
ROUTE 100 STA. = 36+57.40
OFFSET = 33.32' LT



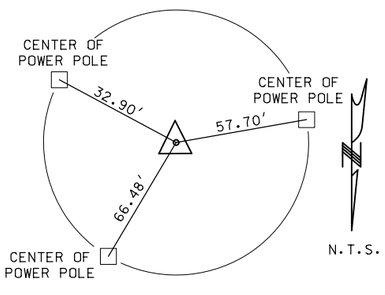
CONTROL POINT #839
ELEV. 450.72

IRC
N = 1011602.84
E = 866926.44
ROUTE 100 = 40+40.22
OFFSET = 36.53' LT



CONTROL POINT #838
ELEV. 452.75

SET PK
N = 1011662.94
E = 866451.03
ROUTE 100 = 45+14.60
OFFSET = 24.42' LT



CONTROL POINT #837
ELEV. 457.46

SET PK
N = 1011613.25
E = 865973.87
ROUTE 100 STA. = 49+90.62
OFFSET = 33.45' LT

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DATE PREPARED
8/26/2019

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	134

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B/C

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

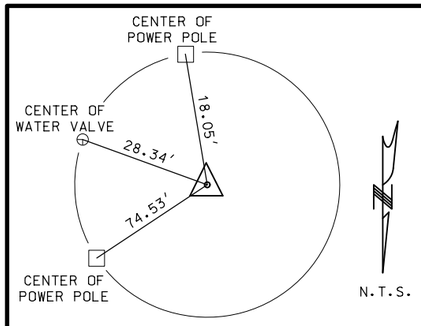
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ENGINEERING
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720 OLIVE STREET, SUITE 200A
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(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001539

REFERENCE POINTS
ROUTE 100
SHEET 1 OF 5

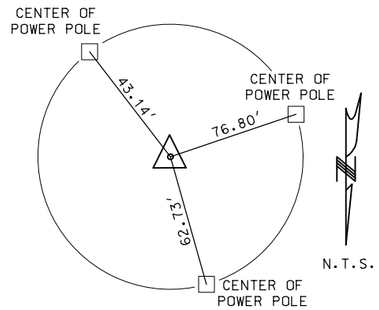
REV.

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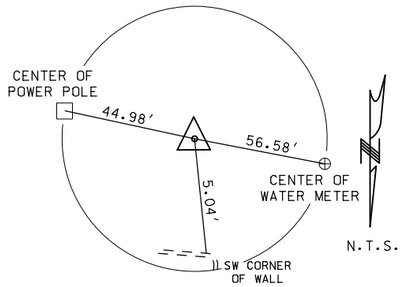
CONTROL POINT #8443
ELEV. 452.86

IRC
N = 1011682.02
E = 865590.41
ROUTE 100 STA. = 53+75.69
OFFSET = 30.54' LT



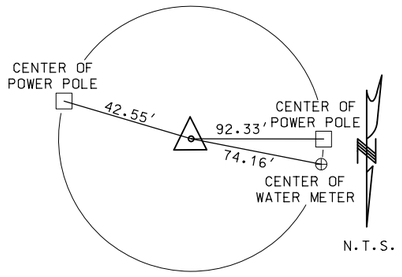
CONTROL POINT #836
ELEV. 447.53

SET PK
N = 1011751.59
E = 865283.98
ROUTE 100 STA. = 56+91.44
OFFSET = 31.84' LT



CONTROL POINT #872
ELEV. 446.16

SET PK
N = 1011855.24
E = 864922.36
ROUTE 100 STA. = 60+64.26
OFFSET = 30.24' RT



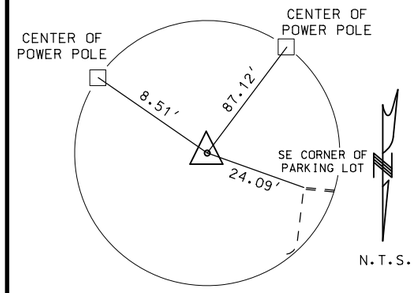
CONTROL POINT #835
ELEV. 446.18

SET PK
N = 1011885.03
E = 864632.41
ROUTE 100 STA. = 63+55.85
OFFSET = 32.92' RT

GENERAL NOTES:

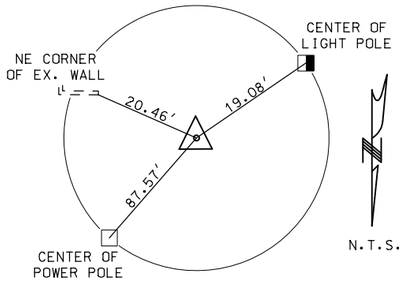
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LINEAR UNIT: US SURVEY FEET (SFT)
GEODETIC DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88 (GEOID 12A)
PROJECT LOCATION:
LATITUDE: 38°36'33.72146"N NORTHING: 1010751.409 SFT
LONGITUDE: 90°21'49.37394"W EASTING: 859150.945 SFT
HEIGHT: 415.52 SFTELEV.: 517.54 SFT
CM SCALE FACTOR: 1.0000847688



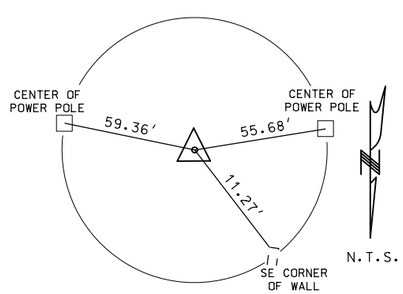
CONTROL POINT #8359

IPF
N = 1011922.87
E = 864128.42
ROUTE 100 STA. = 68+60.70
OFFSET = 29.96' RT



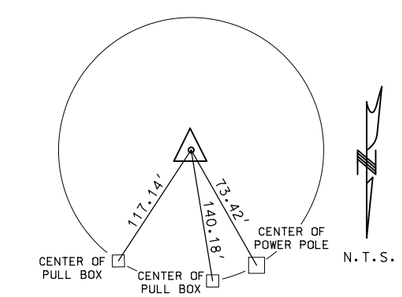
CONTROL POINT #834
ELEV. 476.85

IRC
N = 1011871.16
E = 863835.88
ROUTE 100 STA. = 71+48.56
OFFSET = 46.14' LT



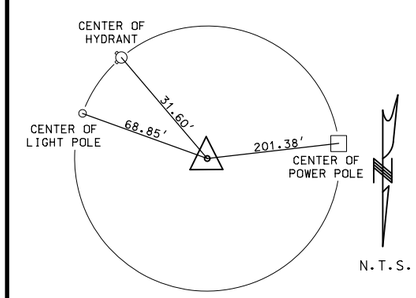
CONTROL POINT #833
ELEV. 488.14

IRC
N = 1011972.78
E = 863396.14
ROUTE 100 STA. = 75+92.28
OFFSET = 47.63 RT



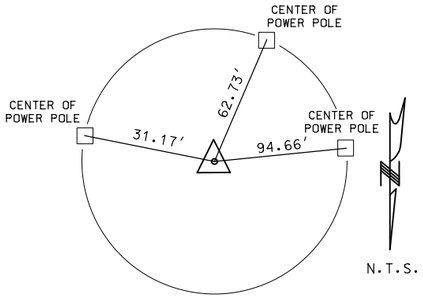
CONTROL POINT #853
ELEV. 483.25

CUT X
N = 1011745.97
E = 863235.62
ROUTE 100 STA. = 77+50.40
OFFSET = 180.64' LT



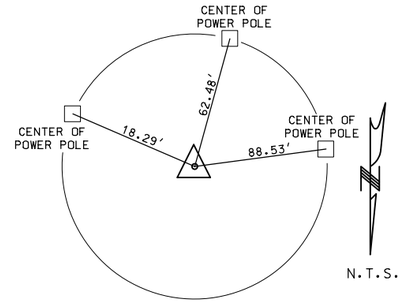
CONTROL POINT #832
ELEV. 479.02

IRC
N = 1011890.59
E = 862756.84
ROUTE 100 STA. = 82+30.75
OFFSET = 41.32' LT



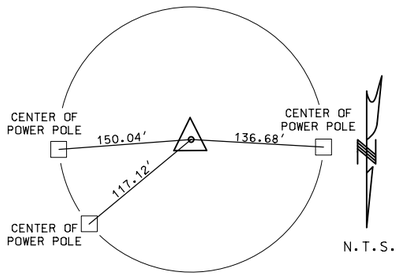
CONTROL POINT #8384

CPS
N = 1011963.74
E = 862535.79
ROUTE 100 STA. = 118+32.10
OFFSET = 31.33' RT



CONTROL POINT #831
ELEV. 496.48

SET PK
N = 1011949.27
E = 862113.76
ROUTE 100 STA. = 122+53.76
OFFSET = 33.16' RT



CONTROL POINT #830
ELEV. 493.56

SET PK
N = 1011845.91
E = 861713.05
ROUTE 100 STA. = 126+67.92
OFFSET = 26.27' LT

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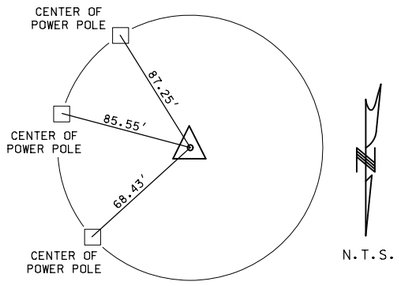
DATE PREPARED: 8/26/2019
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 135
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B/C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

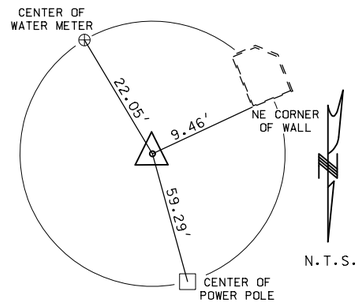
TWM
ENGINEERING
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720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001539

REFERENCE POINTS
ROUTE 100
SHEET 2 OF 5



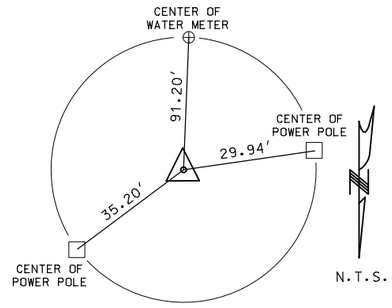
CONTROL POINT #829
ELEV. 476.60

SET PK
N = 1011716.90
E = 861225.52
ROUTE 100 STA. = 131+70.34
OFFSET = 26.19' RT



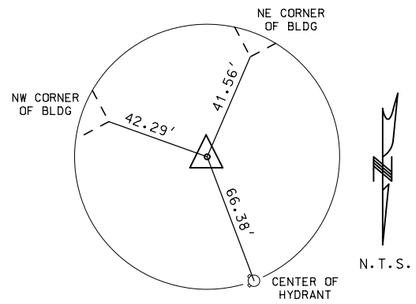
CONTROL POINT #828
ELEV. 457.86

SET PK
N = 1011490.68
E = 860812.07
ROUTE 100 STA. = 136+38.23
OFFSET = 30.35' LT



CONTROL POINT #827
ELEV. 465.58

CUT X
N = 1011232.89
E = 860043.45
ROUTE 100 STA. =144+45.76
OFFSET = 31.01' RT



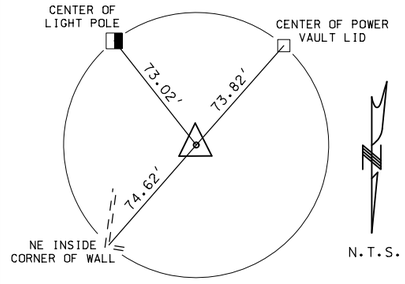
CONTROL POINT #826
ELEV. 493.69

SET PK
N = 1010909.76
E = 859552.82
ROUTE 100 STA. = 150+29.37
OFFSET = 29.05' LT

GENERAL NOTES:

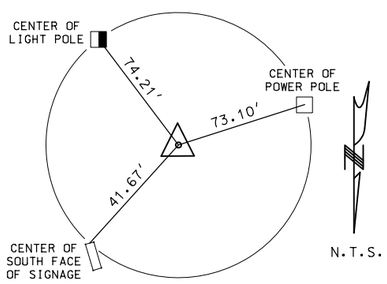
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VERTICAL DATUM: NAVD 88 (GEOID 12A)
PROJECT LOCATION:
LATITUDE: 38°36'33.72146"N NORTHING: 1010751.409 SFT
LONGITUDE: 90°21'49.37394"W EASTING: 859150.945 SFT
HEIGHT: 415.52 SFTELEV.: 517.54 SFT
CM SCALE FACTOR: 1.0000847688



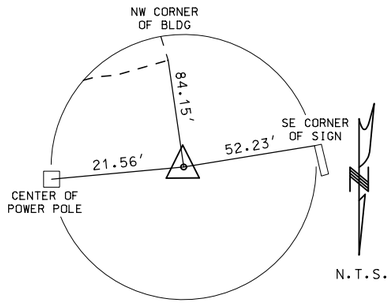
CONTROL POINT #825
ELEV. 507.99

CUT X
N = 1010923.12
E = 859213.83
ROUTE 100 STA. = 153+48.89
OFFSET = 108.54' RT



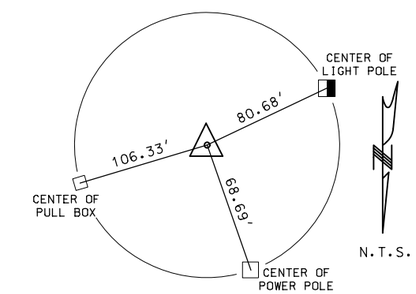
CONTROL POINT #823
ELEV. 516.81

CUT X
N = 1010747.16
E = 858883.37
ROUTE 100 STA. = 157+14.78
OFFSET = 29.20' RT



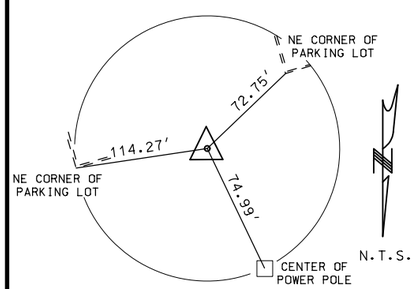
CONTROL POINT #8438

IRF
N = 1010690.29
E = 858678.94
ROUTE 100 STA. = 159+26.97
OFFSET = 30.14' RT



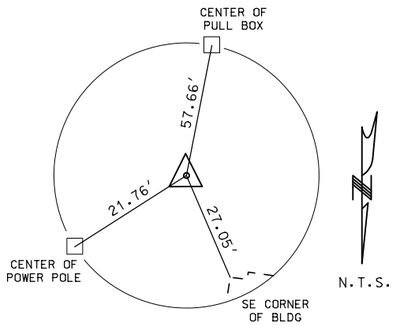
CONTROL POINT #822
ELEV. 534.80

IRC
N = 1010525.28
E = 858363.39
ROUTE 100 STA. = 162+75.52
OFFSET = 42.75' LT



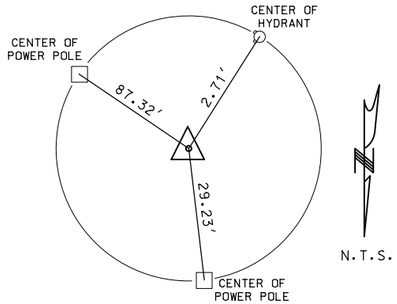
CONTROL POINT #8435
ELEV. 543.87

CUT X
N = 1010443.43
E = 858085.28
ROUTE 100 STA. = 165+65.41
OFFSET = 45.76' LT



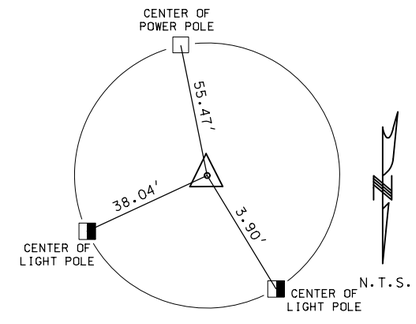
CONTROL POINT #821
ELEV. 547.80

CUT X
N = 1010436.40
E = 857806.08
ROUTE 100 STA. = 168+35.98
OFFSET = 23.49' RT



CONTROL POINT #8434
ELEV. 548.67

CUT X
N = 1010334.95
E = 857383.54
ROUTE 100 STA. = 172+68.67
OFFSET = 433.33' RT



CONTROL POINT #820
ELEV. 552.05

SET PK
N = 1010204.68
E = 857044.91
ROUTE 100 STA. = 176+30.30
OFFSET = 28.47' RT

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DATE PREPARED
8/26/2019
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 136
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

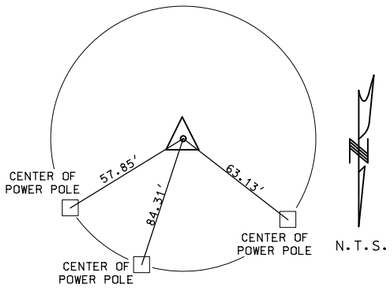
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001538

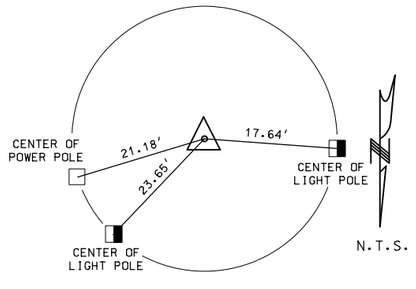
REFERENCE POINTS
ROUTE 100
SHEET 3 OF 5

REV.



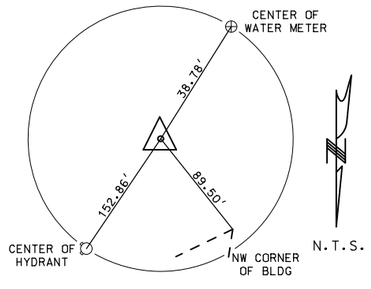
CONTROL POINT #819
ELEV. 564.17

SET PK
N = 1009847.17
E = 856412.94
ROUTE 100 STA. = 183+51.95
OFFSET = 30.75' LT



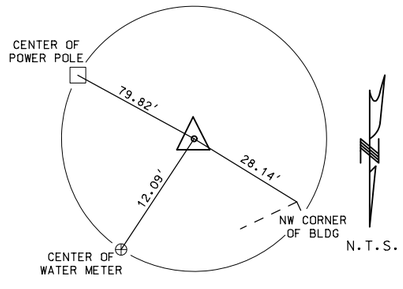
CONTROL POINT #4003

IPF
N = 1009778.31
E = 856129.48
ROUTE 100 STA. = 186+37.25
OFFSET = 30.03' RT



CONTROL POINT #818
ELEV. 569.08

SET PK
N=1009587.71
E=855865.81
ROUTE 100 STA. = 189+57.47
OFFSET = 27.48' LT



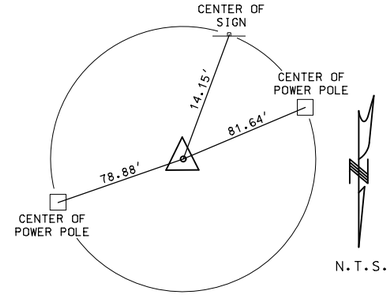
CONTROL POINT #817
ELEV. 581.60

SET PK
N = 1009348.13
E = 855221.26
ROUTE 100 STA. = 196+42.18
OFFSET = 35.90' RT

GENERAL NOTES:

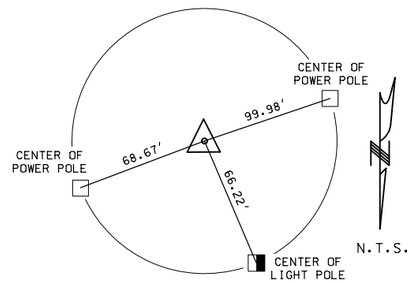
BASIS OF BEARINGS AND COORDINATES: ALL DISTANCES AND COORDINATES SHOWN HEREON ARE GROUND (GRID SCALED) VALUES, AND REFERENCED TO MISSOURI STATE PLANE COORDINATE SYSTEM, EAST ZONE.

LINEAR UNIT: US SURVEY FEET (SFT)
GEODETIC DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88 (GEOID 12A)
PROJECT LOCATION:
LATITUDE: 38°36'33.72146"N NORTHING: 1010751.409 SFT
LONGITUDE: 90°21'49.37394"W EASTING: 859150.945 SFT
HEIGHT: 415.52 SFTELEV.: 517.54 SFT
CM SCALE FACTOR: 1.0000847688



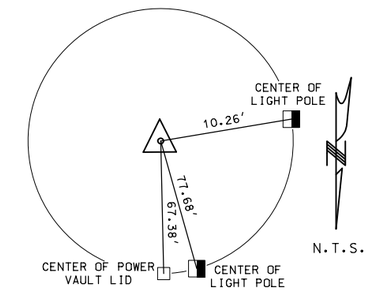
CONTROL POINT #816
ELEV. 581.32

SET PK
N = 1009102.18
E = 854804.11
ROUTE 100 STA. = 201+12.75
OFFSET = 25.25' LT



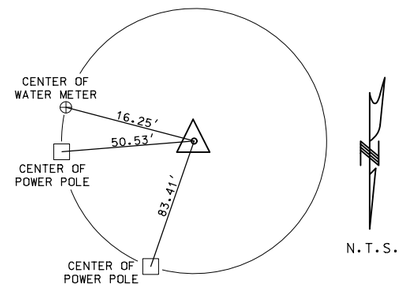
CONTROL POINT #8088

IRC
N = 1008968.20
E = 854431.98
ROUTE 100 STA. = 205+08.24
OFFSET = 30.00' LT



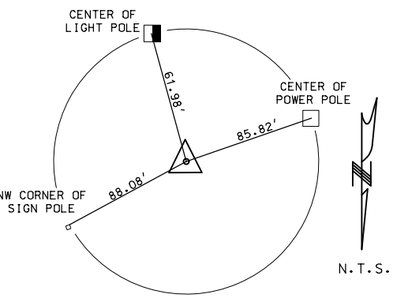
CONTROL POINT #8089

IPF
N = 1008813.860
E = 853986.707
ROUTE 100 STA. = 209+79.50
OFFSET = 30.04' LT



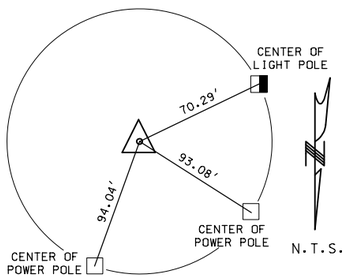
CONTROL POINT #814
ELEV. 579.40

CUT X
N = 1008706.79
E = 853682.16
ROUTE 100 STA. = 213+02.29
OFFSET = 31.71' LT



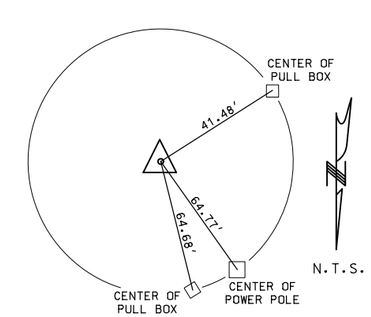
CONTROL POINT #813
ELEV. 576.68

SET PK
N = 1008637.72
E = 853306.24
ROUTE 100 STA. = 216+80.09
OFFSET = 26.48' RT



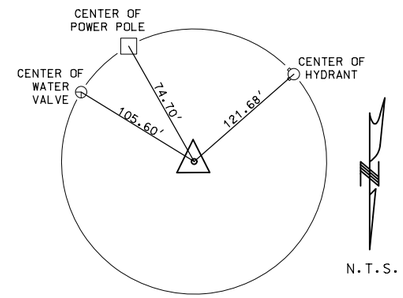
CONTROL POINT #8414

IPF
N = 1008422.61
E = 852914.52
ROUTE 100 STA. = 221+20.78
OFFSET = 47.74' LT



CONTROL POINT #812
ELEV. 572.64

SET PK
N = 1008380.96
E = 852763.58
ROUTE 100 STA. = 222+76.41
OFFSET = 37.70' LT



CONTROL POINT #811
ELEV. 557.25

SET PK
N=1008317.44
E=852285.50
ROUTE 100 STA. = 227+52.99
OFFSET = 25.16' RT

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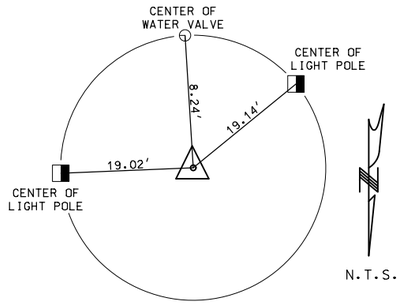
DATE PREPARED: 8/26/2019
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 137
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B/C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE	REV.
.	.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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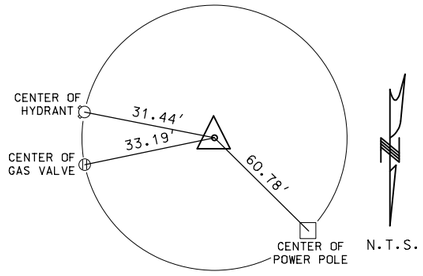
TWM
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ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001539

REFERENCE POINTS
ROUTE 100
SHEET 4 OF 5



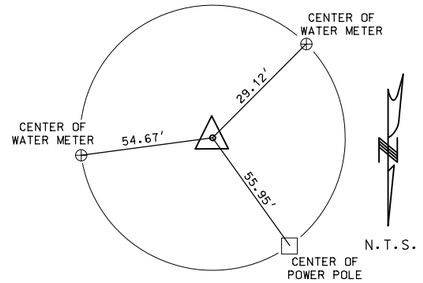
CONTROL POINT #810
ELEV. 552.40

SET PK
N = 1008106.85
E = 851766.32
ROUTE 100 STA. = 233+12.31
OFFSET = 26.91' LT



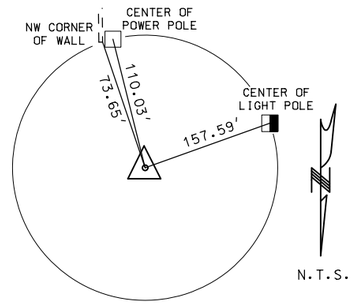
CONTROL POINT #8379

IPF
N = 1007945.59
E = 851350.86
ROUTE 100 STA. = 237+57.95
OFFSET = 29.92' LT



CONTROL POINT #809
ELEV. 565.77

SET PK
N = 1007831.10
E = 851044.37
ROUTE 100 STA. = 240+85.12
OFFSET = 27.97' LT



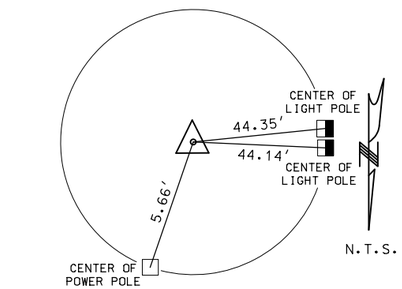
CONTROL POINT #8376

IPF
N = 1007768.42
E = 850716.54
ROUTE 100 STA. = 244+13.82
OFFSET = 30.00' RT

GENERAL NOTES:

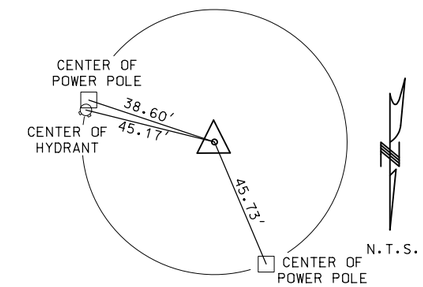
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GEODETIC DATUM: NAD 83 (2011)
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PROJECT LOCATION:
LATITUDE: 38°36'33.72146"N NORTHING: 1010751.409 SFT
LONGITUDE: 90°21'49.37394"W EASTING: 859150.945 SFT
HEIGHT: 415.52 SFTELEV.: 517.54 SFT
CM SCALE FACTOR: 1.0000847688



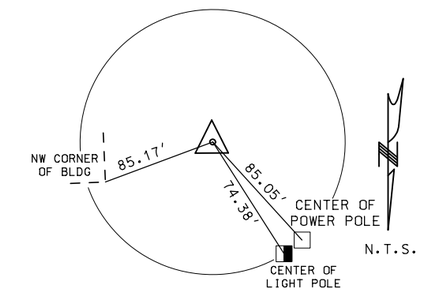
CONTROL POINT #8371
ELEV. 595.77

IRC
N = 1007587.15
E = 850241.02
ROUTE 100 STA. = 249+20.48
OFFSET = 32.27' LT



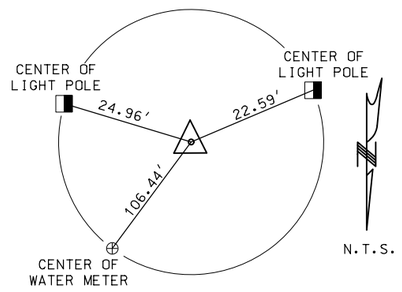
CONTROL POINT #807
ELEV. 612.70

IRC
N = 1007665.41
E = 849747.19
ROUTE 100 STA. = 254+09.54
OFFSET = 68.47' RT



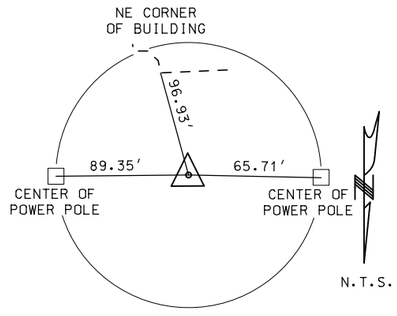
CONTROL POINT #2041
ELEV. 615.51

IRC
N = 1007494.98
E = 849665.64
ROUTE 100 STA. = 254+98.15
OFFSET = 98.40' LT



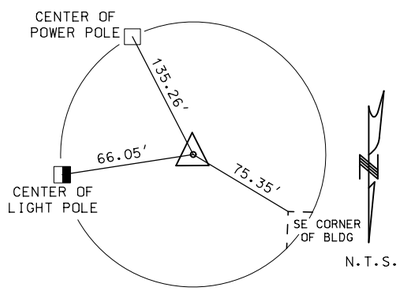
CONTROL POINT #806
ELEV. 631.61

SET PK
N = 1007547.38
E = 849164.10
ROUTE 100 STA. = 259+97.05
OFFSET = 25.08' LT



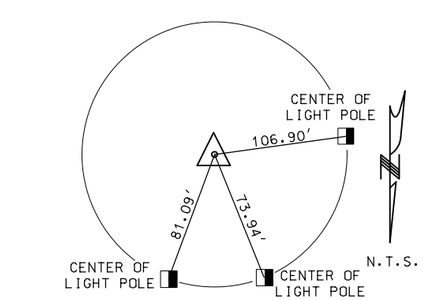
CONTROL POINT #2038

IPF
N = 1007598.79
E = 848722.91
ROUTE 100 STA. = 264+35.63
OFFSET = 44.97' RT



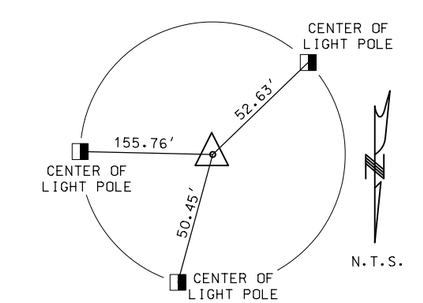
CONTROL POINT #2025
ELEV. 634.47

CUT X
N = 1007564.29
E = 848253.58
ROUTE 100 STA. = 269+06.36
OFFSET = 47.77' RT



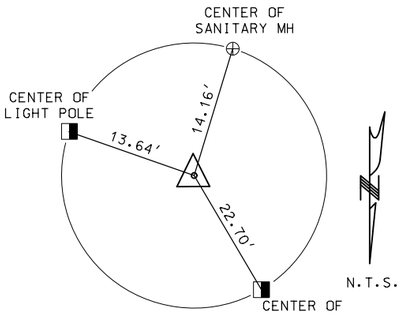
CONTROL POINT #804
ELEV. 653.40

SET PK
N = 1007483.01
E = 847713.22
ROUTE 100 STA. = 274+51.55
OFFSET = 29.92' LT



CONTROL POINT #803
ELEV. 647.39

CUT X
N = 1007428.37
E = 847290.33
ROUTE 100 STA. = 278+79.62
OFFSET = 5.88' LT



CONTROL POINT #800

CUT X
N = 1007434.64
E = 847045.27
ROUTE 100 STA. = 281+18.82
OFFSET = 47.77' RT

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DATE PREPARED: 8/26/2019
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 138
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B/C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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MISSOURI CERT. OF AUTHORITY: 001538

REFERENCE POINTS
ROUTE 100
SHEET 5 OF 5

REV.

P:\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\138_RP_05_J6S1718_I5.dgn 10:41:44 AM 8/26/2019

Coordinate Point Listing
Missouri Coordinate System of 1983

Sheet No.	Point Type	Station	Roadway	Curve	Delta	Radius	Tangent	Length	Northing	Easting	Description
1	POB	0+00.00 R1	ROUTE 100						1011888.77	870746.20	BEGIN - ROUTE 100
1	PI	1+39.90 R1	ROUTE 100						1011917.17	870609.21	PI ROUTE 100
1	POB	4+00.00	MARTINI DR						1012018.20	870613.06	BEGIN - MARTINI DR
1	POE	5+00.00 1+51.11 R1	MARTINI DR ROUTE 100						1011919.31	870598.21	END - MARTINI DR INTERSECTION - MARTINI DR & ROUTE 100
2	POB	10+00.00 8+15.22 R1	OAKLAND AVE ROUTE 100						1012046.14	869946.32	BEGIN - OAKLAND AVE INTERSECTION - OAKLAND AVE & ROUTE 100
2	POE	11+00.00	OAKLAND AVE						1011947.30	869931.13	END - OAKLAND AVE
2	PI	8+45.30 R1	ROUTE 100						1012051.89	869916.79	PI ROUTE 100
3	POB	14+00.00	BREDELL AVE						1012210.02	869628.12	BEGIN - BREDELL AVE
3	POE	15+00.00 11+54.58 R1	BREDELL AVE ROUTE 100						1012111.13	869613.24	END - BREDELL AVE INTERSECTION - BREDELL AVE & ROUTE 100
4	POB	18+00.00	LACLEDE STATION RD						1012381.81	869158.68	BEGIN - LACLEDE STATION RD
4	PI	20+00.00 15+62.55 R1	LACLEDE STATION RD ROUTE 100						1012189.28	869212.82	INTERSECTION - LACLEDE STATION RD & ROUTE 100
4	PI	20+06.76 15+55.79 R1	LACLEDE STATION RD ROUTE 100						1012187.98	869219.46	INTERSECTION - LACLEDE STATION RD & ROUTE 100
4	POE	22+00.00	LACLEDE STATION RD						1011998.78	869180.17	END - LACLEDE STATION RD
4	POB	24+00.00	CIRCLE DR						1012352.27	868899.73	BEGIN - CIRCLE DR
4	POE	25+00.00 19+01.07 R1	CIRCLE DR ROUTE 100						1012254.12	868880.57	END - CIRCLE DR INTERSECTION - CIRCLE DR & ROUTE 100
5 5	Back Station Ahead Station	21+05.40 R1 21+04.55 R2	ROUTE 100 ROUTE 100	CURVE 1 CURVE 1					1012293.26	868680.03	END REGION 1 BEGIN REGION 2
5	PC	21+04.55 R2	ROUTE 100	CURVE 1					1012293.26	868680.03	BEGIN CURVE 1
5	POB	29+00.00	BARTOLD AVE						1012405.33	868556.66	BEGIN - BARTOLD AVE
5	PC	29+20.20	BARTOLD AVE	CURVE 1					1012386.61	868564.26	BEGIN BARTOLD CURVE 1
5	PI	29+31.26 1.21' LT	BARTOLD AVE	CURVE 1	24°56'20" RT	50.00	11.06	21.76	1012376.37	868568.43	PI BARTOLD CURVE 1
5	CC		BARTOLD AVE	CURVE 1					1012367.78	868517.94	
5	PT	29+41.97	BARTOLD AVE	CURVE 1					1012365.32	868567.88	END BARTOLD CURVE 1
5	POE	30+00.00 22+20.51 R2	BARTOLD AVE ROUTE 100						1012307.36	868565.03	END - BARTOLD AVE INTERSECTION - BARTOLD AVE & ROUTE 100
5	PI	22+44.67 R2 11.90' RT	ROUTE 100	CURVE 1	19°25'00" LT	819.02	140.12	277.55	1012320.10	868542.50	PI CURVE 1
5	CC		ROUTE 100	CURVE 1					1011489.41	868523.14	
5	PCC	23+82.10 R2	ROUTE 100	CURVE 1 & 2					1012299.70	868403.88	END CURVE 1 & BEGIN CURVE 2
6	PI	27+42.16 R2 48.15' RT	ROUTE 100	CURVE 2	30°28'00" LT	1322.20	360.06	703.07	1012247.27	868047.65	PI CURVE 2
6	CC		ROUTE 100	CURVE 2					1010991.59	868596.41	
7	PT	30+85.17 R2	ROUTE 100	CURVE 2					1012021.46	867767.20	END CURVE 2
7	POE	38+50.00	HANLEY RD						1011703.57	867795.59	END - HANLEY RD
7	PT	38+34.94	HANLEY RD	CURVE 1					1011718.46	867797.87	END HANLEY CURVE 1
7	CC		HANLEY RD	CURVE 1					1011806.28	867231.68	
7	PI	36+85.77 21.03' LT	HANLEY RD	CURVE 1	30°34'49" RT	572.96	156.64	305.80	1011873.25	867821.88	PI HANLEY CURVE 1
7	PC	35+29.13 30+89.54 R2	HANLEY RD ROUTE 100	CURVE 1					1012018.72	867763.80	BEGIN HANLEY CURVE 1 INTERSECTION - HANLEY RD & ROUTE 100
7 7	Back Station Ahead Station	30+96.88 R2 30+99.00 R3	ROUTE 100 ROUTE 100						1012014.12	867758.09	END REGION 2 BEGIN REGION 3
7	PI	35+00.00 31+20.79 R3	HANLEY RD ROUTE 100						1012000.45	867741.11	INTERSECTION - HANLEY RD & ROUTE 100
7	POB	32+50.00	HANLEY RD						1012247.10	867700.32	BEGIN - HANLEY RD
8	PC	34+52.09 R3	ROUTE 100	CURVE 3					1011792.68	867483.07	BEGIN CURVE 3
8	PI	35+68.52 R3 11.64' LT	ROUTE 100	CURVE 3	22°50'00" RT	576.56	116.43	229.77	1011719.66	867392.38	PI CURVE 3
8	CC		ROUTE 100	CURVE 3					1012241.76	867121.48	
8 8	Back Station Ahead Station	36+81.86 R3 36+80.40 R4	ROUTE 100 ROUTE 100	CURVE 3 & 4 CURVE 3 & 4					1011687.56	867280.46	END REGION 3 BEGIN REGION 4
8	PCC	36+80.40 R4	ROUTE 100	CURVE 3 & 4					1011687.56	867280.46	END CURVE 3 & BEGIN CURVE 4
8	PI	38+02.23 R4 6.46' LT	ROUTE 100	CURVE 4	12°08'00" RT	1146.28	121.83	242.74	1011653.96	867163.36	PI CURVE 4
8	CC		ROUTE 100	CURVE 4					1012789.40	866964.38	
9	PCC	39+23.14 R4	ROUTE 100	CURVE 4 & 5					1011645.73	867041.81	END CURVE 4 & BEGIN CURVE 5
9	POB	40+00.00 39+86.67 R4	BRECKENRIDGE INDUSTRIAL CT ROUTE 100	CURVE 5					1011641.89	866978.40	BEGIN - BRECKENRIDGE INDUSTRIAL CT INTERSECTION - BRECKENRIDGE INDUSTRIAL CT & ROUTE 100
9	POE	41+00.00	BRECKENRIDGE INDUSTRIAL CT						1011541.92	866981.02	END - BRECKENRIDGE INDUSTRIAL CT
9	POB	44+00.00	PORTER AVE						1011740.60	866984.39	BEGIN - PORTER AVE
9	POE	45+00.00 39+94.07 R4	PORTER AVE ROUTE 100	CURVE 5					1011641.50	866971.01	END - PORTER AVE INTERSECTION - PORTER AVE & ROUTE 100

DATE PREPARED
10/22/2019

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 139
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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COORDINATE POINTS
ROUTE 100
SHEET 1 OF 7

Coordinate Point Listing
Missouri Coordinate System of 1983

Sheet No.	Point Type	Station	Roadway	Curve	Delta	Radius	Tangent	Length	Northing	Easting	Description
9	PI	40+97.80 R4 3.35' LT	ROUTE 100	CURVE 5	4°24'00" RT	4546.55	174.66	349.15	1011633.94	866867.55	PI CURVE 5
9	CC		ROUTE 100	CURVE 5					1016181.90	866734.70	
9	PT	42+72.29 R4	ROUTE 100	CURVE 5					1011635.54	866692.89	END CURVE 5
9	POB	49+00.00	MELVIN AVE						1011735.89	866570.87	BEGIN - MELVIN AVE
9	POE	50+00.00 44+07.65 R4	MELVIN AVE ROUTE 100						1011636.79	866557.54	END - MELVIN AVE INTERSECTION - MELVIN AVE & ROUTE 100
10	PI	44+19.21 R4	ROUTE 100						1011636.89	866545.98	PI ROUTE 100
10	POB	55+00.00 45+17.12 R4	MERCANTILE DR ROUTE 100						1011638.57	866448.09	BEGIN - MERCANTILE DR INTERSECTION - MERCANTILE DR & ROUTE 100
10	POE	56+00.00	MERCANTILE DR						1011538.57	866448.54	END - MERCANTILE DR
10	POB	59+00.00	LOUIS AVE						1011742.37	866184.65	BEGIN - LOUIS AVE
10	POE	60+00.00 47+94.30 R4	LOUIS AVE ROUTE 100						1011643.31	866170.94	END - LOUIS AVE INTERSECTION - LOUIS AVE & ROUTE 100
11	PC	49+83.45 R4	ROUTE 100	CURVE 6					1011646.55	865981.83	BEGIN CURVE 6
11	PI	51+03.11 R4 6.50' LT	ROUTE 100	CURVE 6	12°26'00" RT	1098.51	119.66	238.38	1011648.59	865862.19	PI CURVE 6
11	POB	64+00.00	SALEM RD						1011762.16	865823.38	BEGIN - SALEM RD
11	POE	65+00.00 51+56.34 R4	SALEM RD ROUTE 100						1011663.07	865809.91	END - SALEM RD INTERSECTION - SALEM RD & ROUTE 100
11	CC		ROUTE 100	CURVE 6					1012744.90	866000.62	
11	PT	52+21.83 R4	ROUTE 100	CURVE 6					1011676.35	865745.79	END CURVE 6
11 11	Back Station Ahead Station	52+21.83 R4 52+23.24 R5	ROUTE 100 ROUTE 100						1011676.35	865745.79	END REGION 4 BEGIN REGION 5
12	POB	69+00.00	CECILIA AVE						1011841.52	865481.95	BEGIN - CECILIA AVE
12	POE	70+00.00 55+07.75 R5	CECILIA AVE ROUTE 100						1011742.35	865469.04	END - CECILIA AVE INTERSECTION - CECILIA AVE & ROUTE 100
12	PC	56+01.03 R5	ROUTE 100	CURVE 7					1011763.99	865378.31	BEGIN CURVE 7
12	PI	57+39.61 R5 5.02' RT	ROUTE 100	CURVE 7	8°18'00" LT	1910.00	138.59	276.69	1011796.14	865243.50	PI CURVE 7
12	CC		ROUTE 100	CURVE 7					1009906.09	864935.23	
12	POB	74+00.00	HELEN AVE						1011907.07	865124.96	BEGIN - HELEN AVE
12	POE	75+00.00 58+70.82 R5	HELEN AVE ROUTE 100	CURVE 7					1011807.87	865112.34	END - HELEN AVE INTERSECTION - HELEN AVE & ROUTE 100
12	PT	58+77.72 R5	ROUTE 100	CURVE 7					1011808.49	865105.47	END CURVE 7
13	PI	60+79.51 R5	ROUTE 100						1011826.48	864904.47	PI ROUTE 100
13	POB	79+00.00	RUTH AVE						1011936.27	864803.66	BEGIN - RUTH AVE
13	POE	80+00.00 61+94.39 R5	RUTH AVE ROUTE 100						1011837.19	864790.10	END - RUTH AVE INTERSECTION - RUTH AVE & ROUTE 100
13	POB	85+00.00 62+77.23 R5	BOMPART AVE ROUTE 100						1011844.92	864707.62	BEGIN - BOMPART AVE INTERSECTION - BOMPART AVE & ROUTE 100
13	POE	86+00.00	BOMPART AVE						1011745.83	864694.15	END - BOMPART AVE
13	PC	63+95.91 R5	ROUTE 100	CURVE 8					1011855.99	864589.45	BEGIN CURVE 8
52	POB	89+00.00	DOROTHY AVE						1012451.21	864496.98	BEGIN - DOROTHY AVE
52	PC	91+52.95	DOROTHY AVE	CURVE 1					1012203.88	864550.03	BEGIN - DOROTHY CURVE 1
52	PI	92+37.37 10.78' LT	DOROTHY AVE	CURVE 1	29°07'15"RT	325.00	84.42	165.18	1012121.35	864567.73	PI DOROTHY CURVE 1
52	CC		DOROTHY AVE	CURVE 1					1012135.73	864232.26	
52	PT	93+18.14	DOROTHY AVE	CURVE 1					1012040.62	864543.03	END - DOROTHY CURVE 1
52	PC	94+00.20	DOROTHY AVE	CURVE 2					1011962.16	864519.01	BEGIN - DOROTHY CURVE 2
52	PI	94+25.39 1.27' RT	DOROTHY AVE	CURVE 2	11°30'26" LT	250.00	25.19	50.21	1011938.07	864511.64	PI DOROTHY CURVE 2
52	CC		DOROTHY AVE	CURVE 2					1011889.00	864758.07	
52	PT	94+50.41	DOROTHY AVE	CURVE 2					1011913.00	864509.23	END - DOROTHY CURVE 2
52	POE	95+00.00 64+81.24 R5	DOROTHY AVE ROUTE 100	CURVE 8					1011863.63	864504.47	END - DOROTHY AVE INTERSECTION - DOROTHY AVE & ROUTE 100
14	PI	64+95.91 R5 0.44' RT	ROUTE 100	CURVE 8	1°00'00" LT	11458.87	100.00	200.00	1011865.32	864489.89	PI CURVE 8
14	CC		ROUTE 100	CURVE 8					1000447.08	863520.68	
14	PT	65+95.91 R5	ROUTE 100	CURVE 8					1011872.91	864390.18	END CURVE 8
52	POB	0+00.00	ROGERS PARKWAY						1012453.30	864460.82	BEGIN - ROGERS PARKWAY
52	PC	0+54.21	ROGERS PARKWAY	CURVE 1					1012399.60	864468.23	BEGIN - ROGERS PARKWAY CURVE 1
52	PI	0+74.07 1.84' RT	ROGERS PARKWAY	CURVE 1	21°13'29" LT	106.00	19.86	39.27	1012379.92	864470.94	PI ROGERS PARKWAY CURVE 1
52	CC		ROGERS PARKWAY	CURVE 1					1012414.08	864573.23	
52	PRC	0+93.48	ROGERS PARKWAY	CURVE 1 & 2					1012362.56	864480.59	END CURVE 1 & BEGIN CURVE 2
52	PI	1+09.29 1.17' LT	ROGERS PARKWAY	CURVE 2	16°58'17" RT	106.00	15.81	31.40	1012348.74	864488.28	PI ROGERS PARKWAY CURVE 2
52	CC		ROGERS PARKWAY	CURVE 2					1012311.05	864387.95	
52	PT	1+24.88	ROGERS PARKWAY	CURVE 2					1012333.28	864491.59	END - ROGERS PARKWAY CURVE 2

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ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	140

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B/C

CONTRACT ID.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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COORDINATE POINTS
ROUTE 100
SHEET 2 OF 7

REV.

Coordinate Point Listing
Missouri Coordinate System of 1983

Sheet No.	Point Type	Station	Roadway	Curve	Delta	Radius	Tangent	Length	Northing	Easting	Description
52	PC	2+72.98	ROGERS PARKWAY	CURVE 3					1012188.47	864522.65	BEGIN - ROGERS PARKWAY CURVE 3
52	PI	3+95.14 35.57' LT	ROGERS PARKWAY	CURVE 3	64°55'57" RT	192.00	122.16	217.59	1012069.03	864548.27	PI ROGERS PARKWAY CURVE 3
52	CC		ROGERS PARKWAY	CURVE 3					1012148.21	864334.92	
52	PRC	4+90.57	ROGERS PARKWAY	CURVE 3 & 4					1011995.22	864450.93	END CURVE 3 & BEGIN CURVE 4
52	PI	5+42.91 8.87' RT	ROGERS PARKWAY	CURVE 4	38°28'19" LT	150.00	52.34	100.72	1011963.59	864409.22	PI ROGERS PARKWAY CURVE 4
52	CC		ROGERS PARKWAY	CURVE 4					1011875.70	864541.56	
52	PT	5+91.29	ROGERS PARKWAY	CURVE 4					1011912.89	864396.25	END - ROGERS PARKWAY CURVE 4
52	POT	6+32.24 66+00.00 R5	ROGERS PARKWAY ROUTE 100						1011873.22	864386.09	INTERSECTION - ROGERS PARKWAY & ROUTE 100
52	PC	6+74.72	ROGERS PARKWAY	CURVE 5					1011832.06	864375.56	BEGIN - ROGERS PARKWAY CURVE 5
52	PI	7+25.51 8.11' RT	ROGERS PARKWAY	CURVE 5	36°16'28" LT	155.06	50.79	98.17	1011782.86	864362.96	PI ROGERS PARKWAY CURVE 5
52	CC		ROGERS PARKWAY	CURVE 5					1011793.59	864525.77	
52	PRC	7+72.89	ROGERS PARKWAY	CURVE 5 & 6					1011735.73	864381.91	END CURVE 5 & BEGIN CURVE 6
52	PI	8+05.04 6.60' LT	ROGERS PARKWAY	CURVE 6	46°24'28" RT	75.00	32.15	60.75	1011705.90	864393.91	PI ROGERS PARKWAY CURVE 6
52	CC		ROGERS PARKWAY	CURVE 6					1011707.75	864312.33	
52	PT	8+33.64	ROGERS PARKWAY	CURVE 6					1011676.65	864380.58	END - ROGERS PARKWAY CURVE 6
52	POE	8+71.85	ROGERS PARKWAY						1011641.87	864364.73	END - ROGERS PARKWAY
52	POB	100+00.00	MARY AVE NORTH						1012484.61	864411.51	BEGIN - MARY AVE NORTH
52	POE	102+75.00	MARY AVE NORTH						1012216.56	864472.93	END - MARY AVE NORTH
52	POB	105+00.00 66+33.52 R 5	MARY AVE SOUTH ROUTE 100						1011875.76	864352.67	BEGIN - MARY AVE SOUTH INTERSECTION - MARY AVE SOUTH & ROUTE 100
52	POE	107+20.00	MARY AVE SOUTH						1011660.69	864306.37	END - MARY AVE SOUTH
15	PI	69+37.51 R5	ROUTE 100						1011898.83	864049.56	PI ROUTE 100
15	PC	71+22.85 R5	ROUTE 100	CURVE 9					1011915.08	863864.93	BEGIN CURVE 9
15	PI	71+98.46 R5 1.50' RT	ROUTE 100	CURVE 9	4°32'00" LT	1910.08	75.60	151.13	1011921.72	863789.62	PI CURVE 9
15	CC		ROUTE 100	CURVE 9					1010012.37	863697.38	
15	PT	72+73.98 R5	ROUTE 100	CURVE 9					1011922.37	863714.02	END CURVE 9
16	PI	77+17.88 R5	ROUTE 100						1011926.24	863270.13	PI ROUTE 100
16	POB	108+00.00	BRENTWOOD BLVD						1012124.58	863282.65	BEGIN - BRENTWOOD BLVD
16	PI	110+00.00 77+32.27 R5	BRENTWOOD BLVD ROUTE 100						1011926.40	863255.75	INTERSECTION - BRENTWOOD BLVD & ROUTE 100
16	PI	110+06.35 77+25.91 R5	BRENTWOOD BLVD ROUTE 100						1011926.33	863262.10	INTERSECTION - BRENTWOOD BLVD & ROUTE 100
16	POE	111+75.00	BRENTWOOD BLVD						1011759.26	863239.08	END - BRENTWOOD BLVD
17	POB	115+00.00 81+85.26 R5	COLLIER AVE ROUTE 100						1011931.40	862802.79	BEGIN - COLLIER AVE INTERSECTION - COLLIER AVE & ROUTE 100
17	POE	117+25.00	COLLIER AVE						1011708.46	862772.42	END - COLLIER AVE
17	POB	119+00.00	ANNALEE AVE						1012032.37	862702.99	BEGIN - ANNALEE AVE
17	POE	120+00.00 82+80.91 R5	ANNALEE AVE ROUTE 100						1011932.46	862707.14	END - ANNALEE AVE INTERSECTION - ANNALEE AVE & ROUTE 100
17	PC	83+29.17 R5	ROUTE 100	CURVE 10					1011932.99	862658.88	BEGIN CURVE 10
17	PI	83+79.17 R5 0.32' RT	ROUTE 100	CURVE 10	1°28'30" LT	3884.46	50.00	100.00	1011933.54	862608.88	PI CURVE 10
18	CC		ROUTE 100	CURVE 10					1008048.77	862616.00	
18	Back Station Ahead Station	84+29.17 R5 118+09.65 R6	ROUTE 100 ROUTE 100	CURVE 10 CURVE 11					1011932.81	862558.88	END REGION 5 BEGIN REGION 6
18	PCC	118+09.65 R6	ROUTE 100	CURVE 10 & 11					1011932.81	862558.88	END CURVE 10 & BEGIN CURVE 11
18	PI	118+59.65 R6 0.32' RT	ROUTE 100	CURVE 11	1°28'30" LT	3884.46	50.00	100.00	1011932.07	862508.89	PI CURVE 11
18	PT	119+09.65 R6	ROUTE 100	CURVE 11					1011930.05	862458.92	END CURVE 11
19	POB	125+00.00 123+30.20 R6	MANDERLY DR ROUTE 100						1011913.05	862038.72	BEGIN - MANDERLY DR INTERSECTION - MANDERLY DR & ROUTE 100
19	POE	126+00.00	MANDERLY DR						1011813.15	862043.38	END - MANDERLY DR
19	PC	123+31.63 R6	ROUTE 100	CURVE 12					1011912.99	862037.29	BEGIN CURVE 12
19	PI	123+79.55 R6 0.40' RT	ROUTE 100	CURVE 12	1°55'00" LT	2864.79	47.92	95.83	1011911.05	861989.41	PI CURVE 12
19	CC		ROUTE 100	CURVE 12					1009050.54	862153.13	
19	PT	124+27.46 R6	ROUTE 100	CURVE 12					1011907.51	861941.62	END CURVE 12
19	PC	125+16.31 R6	ROUTE 100	CURVE 13					1011900.95	861853.01	BEGIN CURVE 13
19	PI	125+89.85 R6 4.50' RT	ROUTE 100	CURVE 13	14°00'00" LT	598.91	73.54	146.34	1011895.52	861779.67	PI CURVE 13
19	CC		ROUTE 100	CURVE 13					1011303.68	861897.23	

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COORDINATE POINTS
ROUTE 100
SHEET 3 OF 7

REV.

Coordinate Point Listing
Missouri Coordinate System of 1983

Sheet No.	Point Type	Station	Roadway	Curve	Delta	Radius	Tangent	Length	Northing	Easting	Description
19	POB	128+17.93	HIGH SCHOOL DR (ENTRANCE)						1012047.20	861810.16	BEGIN - HIGH SCHOOL DR (ENTRANCE)
19	PC	128+23.17	HIGH SCHOOL DR (ENTRANCE)	CURVE 1					1012042.35	861808.19	BEGIN - HIGH SCHOOL (ENTRANCE) CURVE 1
19	PI	128+35.38 1.47' LT	HIGH SCHOOL DR (ENTRANCE)	CURVE 1	27°26'12" RT	50.00	12.21	23.94	1012031.03	861803.61	PI HIGH SCHOOL (ENTRANCE) CURVE 1
19	CC		HIGH SCHOOL DR (ENTRANCE)	CURVE 1					1012061.12	861761.85	
19	PT	128+47.12	HIGH SCHOOL DR (ENTRANCE)	CURVE 1					1012023.11	861794.33	END - HIGH SCHOOL (ENTRANCE) CURVE 1
19	PC	128+61.77	HIGH SCHOOL DR (ENTRANCE)	CURVE 2					1012013.59	861783.19	BEGIN - HIGH SCHOOL (ENTRANCE) CURVE 2
19	PI	128+73.97 1.47' RT	HIGH SCHOOL DR (ENTRANCE)	CURVE 2	27°26'12" LT	50.00	12.21	23.94	1012005.66	861773.90	PI HIGH SCHOOL (ENTRANCE) CURVE 2
19	CC		HIGH SCHOOL DR (ENTRANCE)	CURVE 2					1011975.57	861815.66	
19	PT	128+85.71	HIGH SCHOOL DR (ENTRANCE)	CURVE 2					1011994.35	861769.32	END - HIGH SCHOOL (ENTRANCE) CURVE 2
19	PC	129+38.18	HIGH SCHOOL DR (ENTRANCE)	CURVE 3					1011945.72	861749.62	BEGIN - HIGH SCHOOL (ENTRANCE) CURVE 3
19	PI	129+54.34 2.55' RT	HIGH SCHOOL DR (ENTRANCE)	CURVE 3	35°49'47" LT	50.00	16.16	31.27	1011930.74	861743.55	PI HIGH SCHOOL (ENTRANCE) CURVE 3
19	CC		HIGH SCHOOL DR (ENTRANCE)	CURVE 3					1011926.94	861795.96	
19	PT	129+69.45	HIGH SCHOOL DR (ENTRANCE)	CURVE 3					1011915.04	861747.39	END - HIGH SCHOOL (ENTRANCE) CURVE 3
19	POE	130+00.00 126+16.00 R6	HIGH SCHOOL DR (ENTRANCE) ROUTE 100	CURVE 13					1011885.37	861754.67	END - HIGH SCHOOL DR (ENTRANCE) INTERSECTION - HIGH SCHOOL DR (ENTRANCE) & ROUTE 100
19	POB	133+52.12	HIGH SCHOOL DR (EXIT)						1012011.50	861733.05	BEGIN - HIGH SCHOOL DR (EXIT)
19	PC	134+19.68	HIGH SCHOOL DR (EXIT)	CURVE 1					1011950.90	861703.19	BEGIN - HIGH SCHOOL (EXIT) CURVE 1
19	PI	134+39.94 3.95' RT	HIGH SCHOOL DR (EXIT)	CURVE 1	44°06'55" LT	50.00	20.26	38.50	1011932.73	861694.24	PI HIGH SCHOOL (EXIT) CURVE 1
19	CC		HIGH SCHOOL DR (EXIT)	CURVE 1					1011928.80	861748.04	
19	PT	134+58.17	HIGH SCHOOL DR (EXIT)	CURVE 1					1011913.45	861700.46	END - HIGH SCHOOL (EXIT) CURVE 1
19	POE	135+00.00 126+59.00 R6	HIGH SCHOOL DR (EXIT) ROUTE 100	CURVE 13					1011873.65	861713.30	END - HIGH SCHOOL DR (EXIT) INTERSECTION - HIGH SCHOOL DR (EXIT) & ROUTE 100
19	PT	126+62.65 R6	ROUTE 100	CURVE 13					1011872.51	861709.83	END CURVE 13
19	PC	127+13.40 R6	ROUTE 100	CURVE 14					1011856.64	861661.64	BEGIN CURVE 14
20	PI	127+98.84 R6 1.27' RT	ROUTE 100	CURVE 14	3°25'00" LT	2864.79	85.44	170.83	1011829.90	861580.49	PI CURVE 14
20	CC		ROUTE 100	CURVE 14					1009135.70	862558.03	
20	PT	128+84.23 R6	ROUTE 100	CURVE 14					1011798.38	861501.07	END CURVE 14
20	PI	130+67.98 R6	ROUTE 100						1011730.58	861330.29	PI ROUTE 100
20	POB	139+00.00	BREMERTON RD						1011811.30	861298.27	BEGIN - BREMERTON RD
20	PI	140+00.00 131+17.33 R6	BREMERTON RD ROUTE 100						1011712.26	861284.46	INTERSECTION - BREMERTON RD & ROUTE 100
20	PI	140+18.04 131+35.37 R6	BREMERTON RD ROUTE 100						1011705.56	861267.71	INTERSECTION - BREMERTON RD & ROUTE 100
20	POE	141+00.00	BREMERTON RD						1011628.94	861296.80	END - BREMERTON RD
21	POB	144+00.00	CREVE COEUR DR						1011562.77	860652.98	BEGIN - CREVE COEUR DR
21	POE	145+00.00 137+30.03 R6	CREVE COEUR DR ROUTE 100						1011484.77	860715.56	END - CREVE COEUR DR INTERSECTION - CREVE COEUR DR & ROUTE 100
22	PI	138+49.55 R6	ROUTE 100						1011440.40	860604.58	PI ROUTE 100
22	PC	140+29.98 R6	ROUTE 100	CURVE 15					1011373.33	860437.08	BEGIN CURVE 15
22	POB	149+00.00	ROCK HILL INDUSTRIAL CT						1011448.09	860355.44	BEGIN - ROCK HILL INDUSTRIAL CT
22	POE	150+00.00 140+77.98 R6	ROCK HILL INDUSTRIAL CT ROUTE 100	CURVE 15					1011355.26	860392.61	END - ROCK HILL INDUSTRIAL CT INTERSECTION - ROCK HILL INDUSTRIAL CT & ROUTE 100
22	PI	141+30.00 R6 1.09' RT	ROUTE 100	CURVE 15	2°30'00" LT	4583.75	100.02	200.00	1011336.15	860344.23	PI CURVE 15
22	CC		ROUTE 100	CURVE 15					1007117.99	862140.84	
22	PT	142+29.98 R6	ROUTE 100	CURVE 15					1011294.96	860253.09	END CURVE 15
23	PC	143+54.10 R6	ROUTE 100	CURVE 16					1011243.85	860139.98	BEGIN CURVE 16
23	POB	154+00.00	RARITAN DR (NORTH)						1011318.17	860062.18	BEGIN - RARITAN DR (NORTH)
23	POE	155+00.00 143+93.25 R6	RARITAN DR (NORTH) ROUTE 100	CURVE 16					1011227.52	860104.40	END - RARITAN DR (NORTH) INTERSECTION - RARITAN DR (NORTH) & ROUTE 100
23	PI	144+54.14 R6 1.46' RT	ROUTE 100	CURVE 16	3°21'00" LT	3420.85	100.03	200.01	1011202.65	860048.82	PI CURVE 16
23	CC		ROUTE 100	CURVE 16					1008126.57	861548.81	
23	PT	145+54.11 R6	ROUTE 100	CURVE 16					1011156.19	859960.23	END CURVE 16
23	POB	160+00.00 146+36.27 R6	RARITAN DR (SOUTH) ROUTE 100						1011118.04	859887.47	BEGIN - RARITAN DR (SOUTH) INTERSECTION - RARITAN DR (SOUTH) & ROUTE 100
23	POE	161+00.00	RARITAN DR (SOUTH)						1011036.76	859945.72	END - RARITAN DR (SOUTH)
24	POB	165+00.00	DUNKIRK DR						1011012.88	859686.91	BEGIN - DUNKIRK DR
24	POE	166+00.00 148+62.73 R6	DUNKIRK DR ROUTE 100						1010924.48	859733.66	END - DUNKIRK DR INTERSECTION - DUNKIRK DR & ROUTE 100
24	PC	151+34.25 R6	ROUTE 100	CURVE 17					1010886.79	859446.45	BEGIN CURVE 17
24	PI	151+84.09 R6 2.58' LT	ROUTE 100	CURVE 17	11°52'17" RT	479.43	49.85	99.33	1010863.64	859402.30	PI CURVE 17

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COORDINATE POINTS
ROUTE 100
SHEET 4 OF 7

Coordinate Point Listing
Missouri Coordinate System of 1983

Sheet No.	Point Type	Station	Roadway	Curve	Delta	Radius	Tangent	Length	Northing	Easting	Description
24	CC		ROUTE 100	CURVE 17					1011311.39	859223.81	
24	PT	152+33.58 R6	ROUTE 100	CURVE 17					1010850.07	859354.34	END CURVE 17
25	POB	167+50.00	MCKNIGHT RD						1011051.03	859223.52	BEGIN - MCKNIGHT RD
25	PI	170+00.00 154+05.08 R6	MCKNIGHT RD ROUTE 100						1010803.38	859189.31	INTERSECTION - MCKNIGHT RD & ROUTE 100
25	PI	170+05.52 154+10.61 R6	MCKNIGHT RD ROUTE 100						1010801.87	859184.00	INTERSECTION - MCKNIGHT RD & ROUTE 100
25	POE	172+50.00	MCKNIGHT RD						1010559.79	859149.87	END - MCKNIGHT RD
26	POB	174+00.00	N ROCK HILL RD						1010750.73	858667.12	BEGIN - N ROCK HILL RD
26 28	POE	175+00.00 159+62.20 R6	N ROCK HILL RD ROUTE 100						1010651.70	858653.24	END - N ROCK HILL RD INTERSECTION - N ROCK HILL RD & ROUTE 100
28	POB	179+00.00	MCKINLEY AVE						1010482.33	857718.50	BEGIN - MCKINLEY AVE
28	POE	180+00.00 169+48.03 R6	MCKINLEY AVE ROUTE 100						1010383.29	857704.66	END - MCKINLEY AVE INTERSECTION - MCKINLEY AVE & ROUTE 100
28	PC	171+33.40 R6	ROUTE 100	CURVE 18					1010332.82	857526.29	BEGIN CURVE 18
28	PI	172+32.48 R6 1.28' RT	ROUTE 100	CURVE 18	2°58'18" LT	3819.72	99.07	198.10	1010305.85	857430.95	PI CURVE 18
28	CC		ROUTE 100	CURVE 18					1006657.40	858566.25	
29	POB	184+00.00	LEONARD AVE						1010394.56	857383.95	BEGIN - LEONARD AVE
29	POE	185+00.00 172+50.50 R6	LEONARD AVE ROUTE 100	CURVE 18					1010299.22	857414.12	END - LEONARD AVE INTERSECTION - LEONARD AVE & ROUTE 100
29	PT	173+31.51 R6	ROUTE 100	CURVE 18					1010273.97	857337.15	END CURVE 18
29	PC	176+18.56 R6	ROUTE 100	CURVE 19					1010181.60	857065.36	BEGIN CURVE 19
29	POB	190+00.00 177+06.57 R6	MUECK TERRACE ROUTE 100	CURVE 19					1010151.09	856982.82	BEGIN - MUECK TERRACE INTERSECTION - MUECK TERRACE & ROUTE 100
29	POE	191+00.00	MUECK TERRACE						1010052.03	856969.12	END - MUECK TERRACE
29	PI	177+18.81 R6 3.02' RT	ROUTE 100	CURVE 19	6°54'31" LT	1660.75	100.25	200.25	1010149.34	856970.44	PI CURVE 19
29	POB	194+00.00	HUDSON AVE						1010244.36	856968.61	BEGIN - HUDSON AVE
29	POE	195+00.00 177+24.37 R6	HUDSON AVE ROUTE 100	CURVE 19					1010144.39	856966.33	END - HUDSON AVE INTERSECTION - HUDSON AVE & ROUTE 100
29	CC		ROUTE 100	CURVE 19					1008609.18	857599.75	
30	PT	178+18.82 R6	ROUTE 100	CURVE 19					1010105.90	856880.09	END CURVE 19
30	POB	198+00.00	KORTWRIGHT AVE						1010129.82	856544.45	BEGIN - KORTWRIGHT AVE
30	PI	200+00.00 182+20.99 R6	KORTWRIGHT AVE ROUTE 100						1009931.62	856517.64	INTERSECTION - KORTWRIGHT AVE & ROUTE 100
30	PI	200+46.00 181+75.00 R6	KORTWRIGHT AVE ROUTE 100						1009951.56	856559.09	INTERSECTION - KORTWRIGHT AVE & ROUTE 100
30	POE	201+50.00	KORTWRIGHT AVE						1009857.83	856604.16	END - KORTWRIGHT AVE
31	POB	205+00.00 184+63.00 R6	BLOSSOM LN ROUTE 100						1009826.76	856299.54	BEGIN - BLOSSOM LN INTERSECTION - BLOSSOM LN & ROUTE 100
31	POE	206+00.00	BLOSSOM LN						1009735.72	856340.91	END - BLOSSOM LN
31	POB	210+00.00 186+63.10 R6	MANITOU DR ROUTE 100						1009740.04	856119.19	BEGIN - MANITOU DR INTERSECTION - MANITOU DR & ROUTE 100
31	POE	211+00.00	MANITOU DR						1009649.24	856161.09	END - MANITOU DR
32	POB	214+00.00	O'DAY AVE						1009742.20	855930.96	BEGIN - O'DAY AVE
32	POE	215+00.00 188+86.82 R6	O'DAY AVE ROUTE 100						1009643.10	855917.58	END - O'DAY AVE INTERSECTION - O'DAY AVE & ROUTE 100
32	POB	220+00.00 191+21.88 R6	TAVALON AVE ROUTE 100						1009541.33	855705.91	BEGIN - TAVALON AVE INTERSECTION - TAVALON AVE & ROUTE 100
32	POE	221+00.00	TAVALON AVE						1009450.56	855747.88	END - TAVALON AVE
33	POB	225+00.00 194+27.68 R6	FAIRDALE AVE ROUTE 100						1009408.73	855430.13	BEGIN - FAIRDALE AVE INTERSECTION - FAIRDALE AVE & ROUTE 100
33	POE	226+00.00	FAIRDALE AVE						1009317.96	855472.10	END - FAIRDALE AVE
34	POB	229+00.00	BERRY RD						1009354.14	855088.37	BEGIN - BERRY RD
34	PI	230+00.00 197+74.16 R6	BERRY RD ROUTE 100						1009258.59	855117.88	INTERSECTION - BERRY RD & ROUTE 100
34	PI	230+09.00 194+16.15 R6	BERRY RD ROUTE 100						1009262.49	855125.99	INTERSECTION - BERRY RD & ROUTE 100
34	POE	231+50.00	BERRY RD						1009133.95	855183.93	END - BERRY RD
34	PC	198+47.20 R6	ROUTE 100	CURVE 20					1009226.94	855052.05	BEGIN CURVE 20
34	PI	199+47.30 R6 2.87' LT	ROUTE 100	CURVE 20	6°33'59" RT	1745.05	100.11	199.99	1009183.56	854961.83	PI CURVE 20
34	CC		ROUTE 100	CURVE 20					1010799.64	854295.86	
34	POB	235+00.00 200+08.37 R6	MONIER PL ROUTE 100	CURVE 20					1009163.90	854903.77	BEGIN - MONIER PL INTERSECTION - MONIER PL & ROUTE 100
34	POE	236+00.00	MONIER PL	CURVE 20					1009063.92	854901.74	END - MONIER PL
34	PT	200+47.19 R6	ROUTE 100	CURVE 20					1009150.78	854867.24	END CURVE 20
34	Back Station Ahead Station	201+10.00 R6 201+00.00 R7	ROUTE 100 ROUTE 100						1009130.22	854807.89	END REGION 6 BEGIN REGION 7

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ROUTE 100 | STATE MO

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COORDINATE POINTS
ROUTE 100
SHEET 5 OF 7

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Coordinate Point Listing
Missouri Coordinate System of 1983

Sheet No.	Point Type	Station	Roadway	Curve	Delta	Radius	Tangent	Length	Northing	Easting	Description
34	POB	238+50.00	SALEM HILLS DR						1009236.05	854665.87	BEGIN - SALEM HILLS DR
34	PC	238+68.72	SALEM HILLS DR	CURVE 1					1009217.34	854665.34	BEGIN SALEM HILLS CURVE 1
34	PI	239+11.01 R7 3.18' RT	SALEM HILLS DR	CURVE 1	17°12'54" LT	279.42	42.30	83.95	1009175.06	854664.14	PI SALEM HILLS CURVE 1
34	CC		SALEM HILLS DR	CURVE 1					1009209.39	854944.65	
34	PT	239+52.67	SALEM HILLS DR	CURVE 1					1009134.32	854675.50	END SALEM HILLS CURVE 1
34	POE	240+00.00 202+26.82 R7	SALEM HILLS DR ROUTE 100						1009088.69	854688.07	END - SALEM HILLS DR INTERSECTION - SALEM HILLS DR & ROUTE 100
35	POB	245+00.00 205+45.25 R7	FREDERICK LN ROUTE 100						1008984.43	854387.19	BEGIN - FREDERICK LN INTERSECTION - FREDERICK LN & ROUTE 100
35	POE	246+00.00	FREDERICK LN						1008889.94	854419.93	END - FREDERICK LN
36	POB	248+50.00	WARSON WOODS SHOPPING CTR						1008973.33	853897.05	BEGIN - WARSON WOODS SHOPPING CTR
36	POE	250+00.00 210+12.00 R7	WARSON WOODS SHOPPING CTR ROUTE 100						1008831.60	853946.17	END - WARSON WOODS SHOPPING CTR INTERSECTION - WARSON WOODS SHOPPING CTR & ROUTE 100
36	PI	210+49.97 R7	ROUTE 100						1008819.17	853910.29	PI ROUTE 100
37	POB	254+00.00	WARSON WOODS BLVD						1008836.52	853654.31	BEGIN - WARSON WOODS BLVD
37	POE	255+00.00 212+86.25 R7	WARSON WOODS BLVD ROUTE 100						1008742.00	853686.97	END - WARSON WOODS BLVD INTERSECTION - WARSON WOODS BLVD & ROUTE 100
37	PI	214+13.31 R7	ROUTE 100						1008700.50	853566.88	PI ROUTE 100
37	POB	259+00.00	ANDREW (NORTH)						1008686.93	853224.05	BEGIN - ANDREW (NORTH)
37	POE	260+00.00 217+41.70 R7	ANDREW (NORTH) ROUTE 100						1008592.43	853256.77	END - ANDREW (NORTH) INTERSECTION - ANDREW (NORTH) & ROUTE 100
38	PC	265+00.00 218+25.62 R7	ANDREW (SOUTH) ROUTE 100	CURVE 1					1008564.82	853177.53	BEGIN - ANDREW (SOUTH) & BEGIN ANDREW (SOUTH) CURVE 1 INTERSECTION - ANDREW (SOUTH) & ROUTE 100
38	PI	265+99.29 10.14' LT	ANDREW (SOUTH)	CURVE 1	23°19'40" RT	481.00	99.29	195.84	1008473.30	853216.06	PI ANDREW (SOUTH) CURVE 1
38	CC		ANDREW (SOUTH)	CURVE 1					1008378.18	852734.22	
38	PT	266+95.84	ANDREW (SOUTH)	CURVE 1					1008374.01	853215.20	END ANDREW (SOUTH) CURVE 1
38	POE	267+50.00	ANDREW (SOUTH)						1008319.85	853214.73	END - ANDREW (SOUTH)
38	PC	222+39.10 R7	ROUTE 100	CURVE 21					1008428.75	852787.08	BEGIN CURVE 21
39	PI	223+30.70 R7 1.81' LT	ROUTE 100	CURVE 21	4°31'00" RT	2322.80	91.60	183.11	1008398.61	852700.58	PI CURVE 21
39	POE	272+00.00	SAPPINGTON RD						1008205.75	852696.65	END - SAPPINGTON RD
39	PI	270+05.85 223+32.15 R7	SAPPINGTON RD ROUTE 100	CURVE 21					1008399.90	852698.62	INTERSECTION - SAPPINGTON RD & ROUTE 100
39	PI	270+00.00 223+38.00 R7	SAPPINGTON RD ROUTE 100	CURVE 21					1008398.20	852693.02	INTERSECTION - SAPPINGTON RD & ROUTE 100
39	POB	269+00.00	SAPPINGTON RD						1008493.95	852664.17	BEGIN - SAPPINGTON RD
39	CC		ROUTE 100	CURVE 21					1010622.18	852022.70	
39	PT	224+22.21 R7	ROUTE 100	CURVE 21					1008375.37	852611.98	END CURVE 21
39	PI	226+06.33 R7	ROUTE 100						1008328.66	852433.88	PI ROUTE 100
40	PC	230+07.35 R7	ROUTE 100	CURVE 22					1008231.24	852044.87	BEGIN CURVE 22
40	PI	230+89.46 R7 2.43' RT	ROUTE 100	CURVE 22	6°46'00" LT	1388.99	82.12	164.04	1008211.29	851965.22	PI CURVE 22
40	CC		ROUTE 100	CURVE 22					1006883.86	852382.29	
40	POB	274+00.00	BENNETT AVE						1008280.81	851872.27	BEGIN - BENNETT AVE
40	POE	275+00.00 231+71.22 R7	BENNETT AVE ROUTE 100	CURVE 22					1008182.16	851888.63	END - BENNETT AVE INTERSECTION - BENNETT AVE & ROUTE 100
40	PT	231+71.39 R7	ROUTE 100	CURVE 22					1008182.10	851888.47	END CURVE 22
41	POB	280+00.00 234+92.93 R7	GLENDALE GARDENS DR ROUTE 100						1008067.78	851587.93	BEGIN - GLENDALE GARDENS DR INTERSECTION - GLENDALE GARDENS DR & ROUTE 100
41	POE	281+00.00	GLENDALE GARDENS DR						1007967.80	851586.15	END - GLENDALE GARDENS DR
41	POB	285+00.00 237+30.30 R7	KENMORE DR ROUTE 100						1007983.39	851366.07	BEGIN - KENMORE DR INTERSECTION - KENMORE DR & ROUTE 100
41	POE	286+00.00	KENMORE DR						1007883.41	851364.20	END - KENMORE DR
42	PC	289+00.00	STURGIS DR	CURVE 1					1008031.87	851213.53	BEGIN - STURGIS DR
42	PI	289+24.96 R7 1.51' RT	STURGIS DR	CURVE 1	13°53'07" LT	205.00	24.96	49.68	1008007.10	851216.67	PI STURGIS CURVE 1
42	CC		STURGIS DR	CURVE 1					1008057.58	851416.91	
42	PT	289+49.68	STURGIS DR	CURVE 1					1007983.81	851225.65	END STURGIS CURVE 1
42	POE	290+00.00 238+61.40 R7	STURGIS DR ROUTE 100						1007936.78	851243.54	END - STURGIS DR INTERSECTION - STURGIS DR & ROUTE 100
42	POB	294+00.00	MARIEDALE CT						1007899.05	850863.09	BEGIN - MARIEDALE CT
42	POE	295+00.00 242+30.64 R7	MARIEDALE CT ROUTE 100						1007805.50	850898.42	END - MARIEDALE CT INTERSECTION - MARIEDALE CT & ROUTE 100
43	PC	245+80.84 R7	ROUTE 100	CURVE 23					1007681.00	850571.10	BEGIN CURVE 23
43	POB	300+00.00 246+04.40 R7	DICKSON ST ROUTE 100	CURVE 23					1007672.92	850548.96	BEGIN - DICKSON ST INTERSECTION - DICKSON ST & ROUTE 100
43	POE	301+00.00	DICKSON ST						1007572.96	850546.33	END - DICKSON ST

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MISSOURI CERT. OF AUTHORITY: 001528

COORDINATE POINTS
ROUTE 100
SHEET 6 OF 7

REV.

Coordinate Point Listing
Missouri Coordinate System of 1983

Sheet No.	Point Type	Station	Roadway	Curve	Delta	Radius	Tangent	Length	Northing	Easting	Description
43	PI	247+00.41 R7 8.26' LT	ROUTE 100	CURVE 23	15°48'10" RT	861.59	119.58	237.63	1007638.49	850459.34	PI CURVE 23
43	CC		ROUTE 100	CURVE 23					1008486.30	850264.78	
44	PT	248+18.47 R7	ROUTE 100	CURVE 23					1007628.02	850340.22	END CURVE 23
44	PC	248+80.36 R7	ROUTE 100	CURVE 24					1007622.60	850278.58	BEGIN CURVE 24
44	PI	249+56.62 R7 0.87' LT	ROUTE 100	CURVE 24	2°37'41" RT	3324.71	76.27	152.50	1007615.92	850202.61	PI CURVE 24
44	CC		ROUTE 100	CURVE 24					1010934.54	849987.47	
44	PT	250+32.86 R7	ROUTE 100	CURVE 24					1007612.73	850126.41	END CURVE 24
45	POB	301+00.00	WOODLAWN AVE						1007994.50	849699.91	BEGIN - WOODLAWN AVE
45	PI	301+64.57	WOODLAWN AVE						1007929.94	849698.51	
45	PI	305+00.00 254+67.39 R7	WOODLAWN AVE ROUTE 100						1007594.57	849692.25	 INTERSECTION - WOODLAWN AVE & ROUTE 100
45	PI	305+06.46 254+73.85 R7	WOODLAWN AVE ROUTE 100						1007594.30	849685.80	 INTERSECTION - WOODLAWN AVE & ROUTE 100
45	POE	308+00.00	WOODLAWN AVE						1007301.03	849698.37	END - WOODLAWN AVE
47	PI	263+09.51 R7	ROUTE 100						1007559.38	848850.87	PI ROUTE 100
47	POB	310+00.00 263+54.42 R7	WOOD AVE ROUTE 100						1007557.42	848806.00	BEGIN - WOOD AVE INTERSECTION - WOOD AVE & ROUTE 100
47	POE	311+00.00	WOOD AVE						1007457.47	848802.76	END - WOOD AVE
47	POB	314+00.00	SYLVAN PL						1007647.35	848575.95	BEGIN - SYLVAN PL
47	PI	315+00.00 265+84.69 R7	SYLVAN PL ROUTE 100						1007547.35	848575.95	 INTERSECTION - SYLVAN PL & ROUTE 100
47	PI	315+06.81 265+91.50 R7	SYLVAN PL ROUTE 100						1007547.05	848569.15	 INTERSECTION - SYLVAN PL & ROUTE 100
47	POE	316+00.00	SYLVAN PL						1007453.88	848566.81	END - SYLVAN PL
48	PI	268+11.41 R7	ROUTE 100						1007537.43	848349.45	PI ROUTE 100
48	POB	320+00.00 268+26.96 R7	BERNICE AVE ROUTE 100						1007536.93	848333.91	BEGIN - BERNICE AVE INTERSECTION - BERNICE AVE & ROUTE 100
48	POE	321+00.00	BERNICE AVE						1007436.95	848332.26	END - BERNICE AVE
48	POB	324+00.00	LYNCHESTER LN						1007634.29	848253.35	BEGIN - LYNCHESTER LN
48	POE	325+00.00 269+08.66 R7	LYNCHESTER LN ROUTE 100						1007534.30	848252.25	END - LYNCHESTER LN INTERSECTION - LYNCHESTER LN & ROUTE 100
48	POB	330+00.00 271+61.01 R7	CURRAN AVE ROUTE 100						1007526.17	848000.03	BEGIN - CURRAN AVE INTERSECTION - CURRAN AVE & ROUTE 100
48	POE	331+00.00	CURRAN AVE						1007426.17	847998.82	END - CURRAN AVE
49	PC	273+49.58 R7	ROUTE 100	CURVE 25					1007520.09	847811.57	BEGIN CURVE 25
49	PI	274+53.85 R7 4.25' RT	ROUTE 100	CURVE 25	9°19'38" LT	1278.30	104.28	208.09	1007516.73	847707.34	PI CURVE 25
49	CC		ROUTE 100	CURVE 25					1006242.45	847852.76	
49	POB	335+00.00 274+87.21 R7	TAYLOR AVE ROUTE 100	 CURVE 25					1007508.26	847674.50	BEGIN - TAYLOR AVE INTERSECTION - TAYLOR AVE & ROUTE 100
49	POE	336+00.00	TAYLOR AVE	CURVE 25					1007408.27	847673.26	END - TAYLOR AVE
49	PT	275+57.67 R7	ROUTE 100	CURVE 25					1007496.52	847605.04	END CURVE 25
50	POB	340+00.00 279+50.88 R7	LINDBERGH BLVD (RT TURN LANE) ROUTE 100						1007420.32	847219.28	BEGIN - LINDBERGH BLVD (RT TURN LANE) INTERSECTION - LINDBERGH BLVD (RT TURN LANE) & ROUTE 100
50	POE	341+50.00	LINDBERGH BLVD (RT TURN LANE)						1007303.05	847125.75	END - LINDBERGH BLVD (RT TURN LANE)
50	PI	281+80.83 R7	ROUTE 100						1007375.76	846993.69	PI ROUTE 100
50	POB	342+50.00	LINDBERGH BLVD						1007624.28	846987.89	BEGIN - LINDBERGH BLVD
50	PI	345+00.00 281+88.67 R7	LINDBERGH BLVD ROUTE 100						1007374.28	846985.99	 INTERSECTION - LINDBERGH BLVD & ROUTE 100
50	PI	345+02.06 281+86.61 R7	LINDBERGH BLVD ROUTE 100						1007374.67	846988.01	 INTERSECTION - LINDBERGH BLVD & ROUTE 100
50	POE	347+50.00	LINDBERGH BLVD						1007126.77	846983.51	END - LINDBERGH BLVD
50	Back Station Ahead Station	281+95.56 R7 281+98.98 R8	ROUTE 100 ROUTE 100						1007372.99	846979.22	END REGION 7 BEGIN REGION 8
50	POE	283+00.00 R8	ROUTE 100						1007353.99	846880.01	END - ROUTE 100

DATE PREPARED
10/21/2019

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 145

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B/C

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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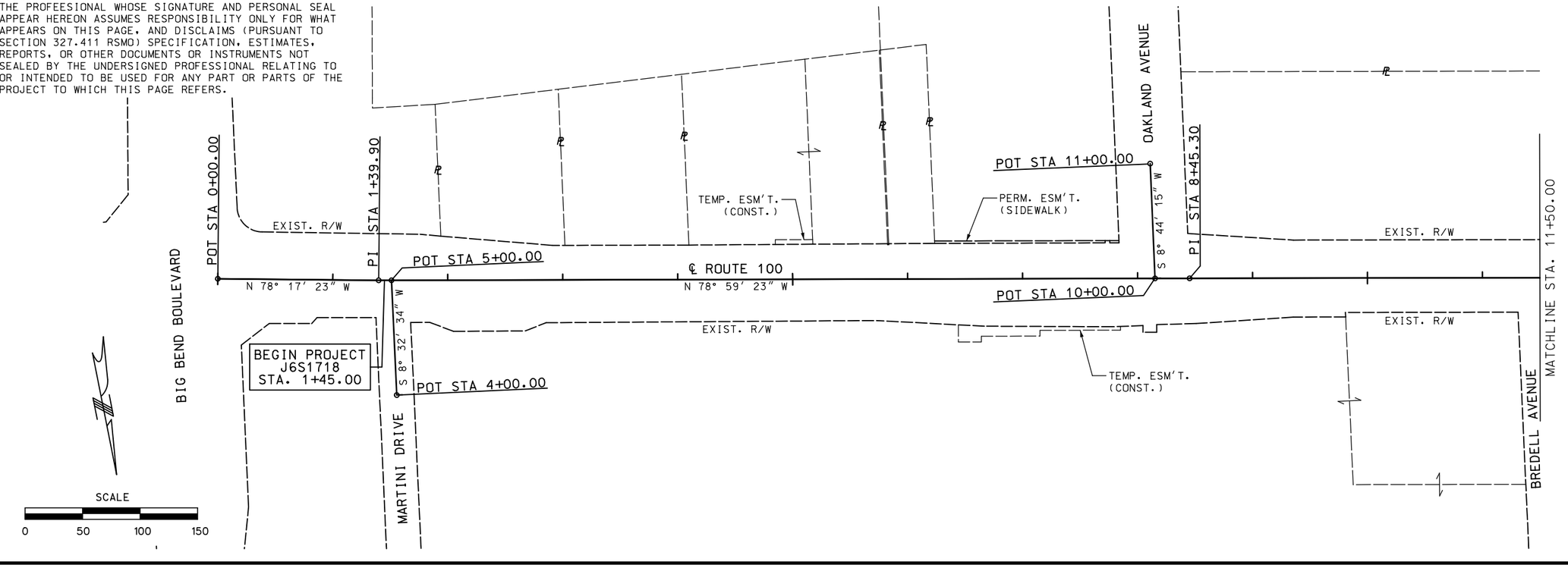
COORDINATE POINTS

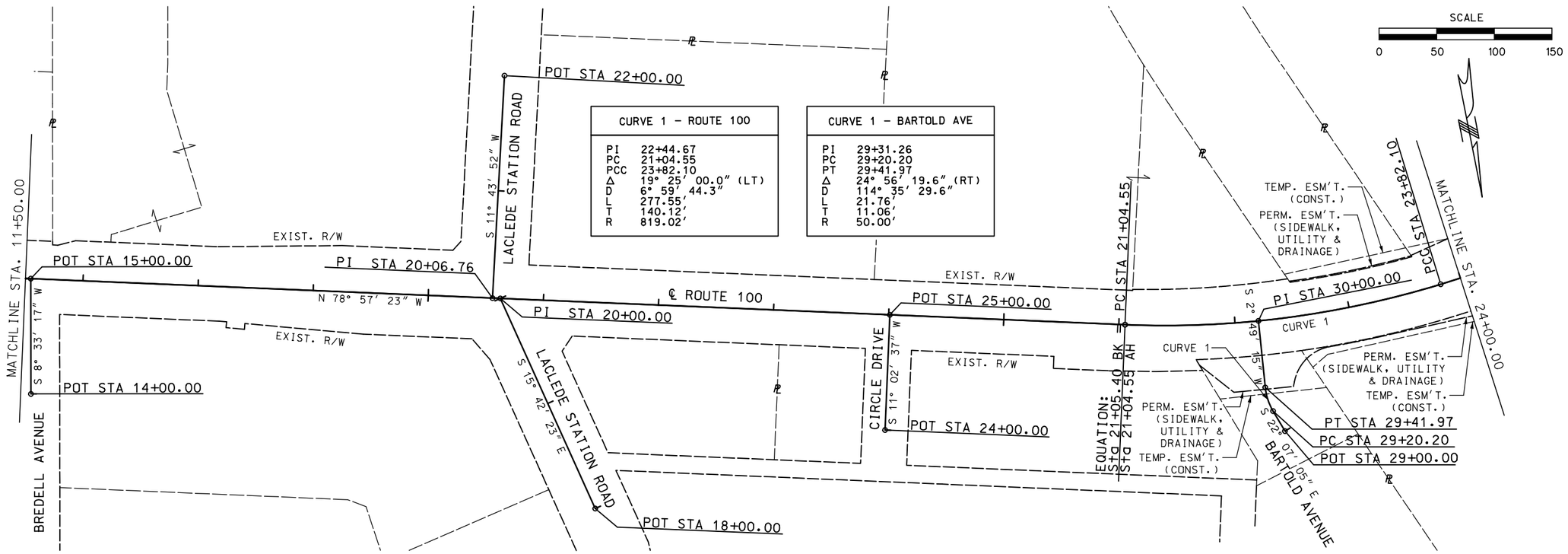
ROUTE 100

SHEET 7 OF 7

REV.

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DATE PREPARED 10/22/2019
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 146
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ALIGNMENT SHEETS
ROUTE 100
SHEET 1 OF 10

REV.

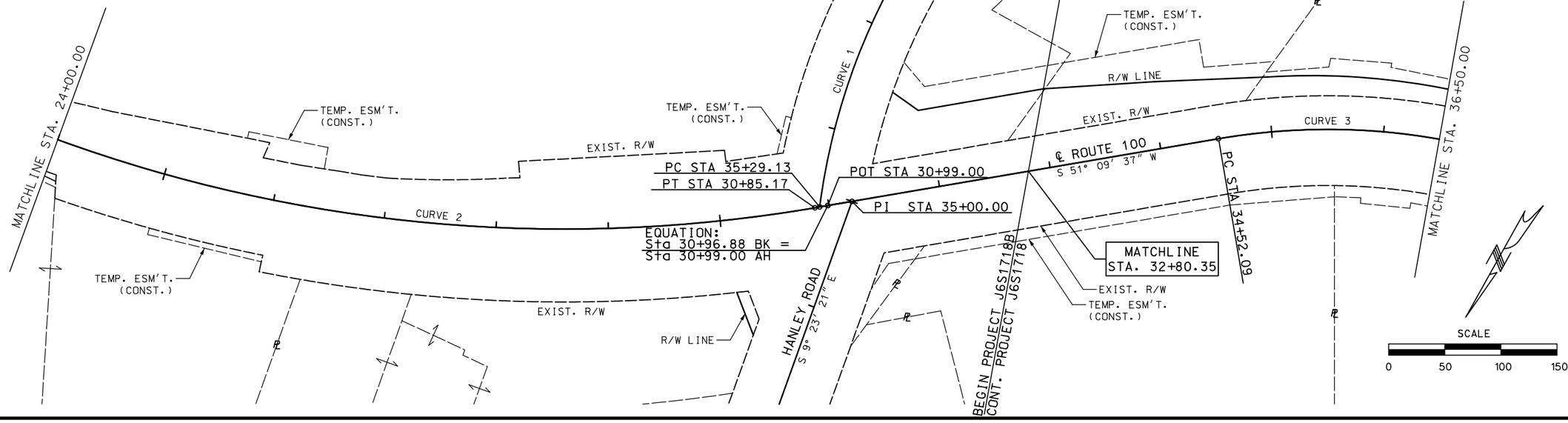
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CURVE 2 – ROUTE 100	
PI	27+42.16
PCC	23+82.10
PT	30+85.17
Δ	30° 28′ 00.0″ (LT)
D	4° 20′ 00.1″
L	703.07′
T	360.06′
R	1,322.20′

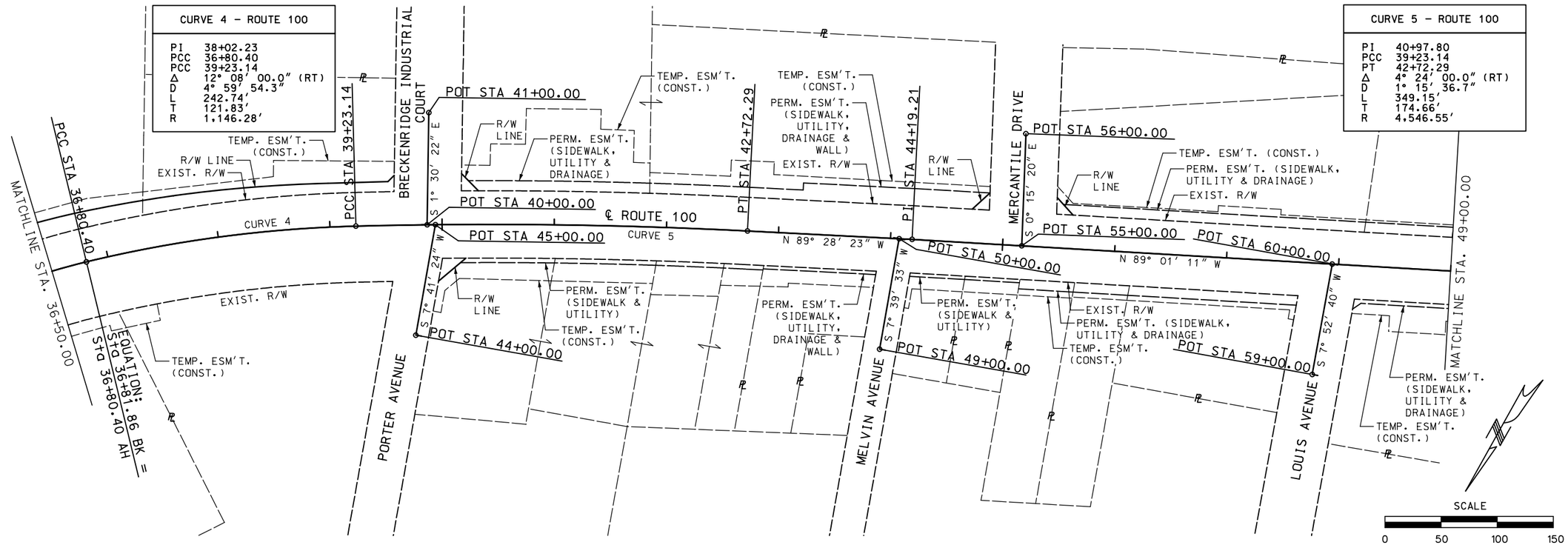
CURVE 1 – HANLEY RD	
PI	36+85.77
PC	35+29.13
PT	38+34.94
Δ	30° 34′ 48.6″ (RT)
D	9° 59′ 59.9″
L	305.80′
T	156.64′
R	572.96′

CURVE 3 – ROUTE 100	
PI	35+68.52
PC	34+52.09
PCC	36+81.86
Δ	22° 50′ 00.0″ (RT)
D	9° 56′ 15.1″
L	229.77′
T	116.43′
R	576.56′



CURVE 4 – ROUTE 100	
PI	38+02.23
PCC	36+80.40
PCC	39+23.14
Δ	12° 08′ 00.0″ (RT)
D	4° 59′ 54.3″
L	242.74′
T	121.83′
R	1,146.28′

CURVE 5 – ROUTE 100	
PI	40+97.80
PCC	39+23.14
PT	42+72.29
Δ	4° 24′ 00.0″ (RT)
D	1° 15′ 36.7″
L	349.15′
T	174.66′
R	4,546.55′



DATE PREPARED
10/22/2019

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	147

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ALIGNMENT SHEETS
ROUTE 100
SHEET 2 OF 10

REV.

CURVE 6 – ROUTE 100	
PI	51+03.11
PC	49+83.45
PT	52+21.83
Δ	12° 26′ 00.0″ (RT)
D	5° 12′ 56.8″
L	238.38′
T	119.66′
R	1,098.51′

CURVE 7 – ROUTE 100	
PI	57+39.61
PC	56+01.03
PT	58+77.72
Δ	8° 18′ 00.0″ (LT)
D	2° 59′ 59.2″
L	276.69′
T	138.59′
R	1,910.00′

MATCHLINE STA. 49+00.00

PC STA 49+83.45

PT STA 52+21.83

PC STA 56+01.03

PT STA 58+77.72

PI STA 60+79.51

MATCHLINE STA. 61+50.00

CURVE 6

CURVE 7

℄ ROUTE 100

N 76° 35′ 11″ W

N 84° 53′ 11″ W

POT STA 64+00.00

POT STA 65+00.00

POT STA 69+00.00

POT STA 70+00.00

POT STA 74+00.00

POT STA 75+00.00

S 7° 44′ 41″ W

S 7° 24′ 57″ W

S 7° 15′ 05″ W

EQUATION:
Sta 52+21.83 BK =
Sta 52+23.24 AH

TEMP. ESM'T. (CONST.)

PERM. ESM'T. (SIDEWALK & UTILITY)

EXIST. R/W

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE & WALL)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

SALEM ROAD

CECELIA AVENUE

LILLIAN AVENUE

HELEN AVENUE

SCALE

0 50 100 150

CURVE 8 – ROUTE 100	
PI	64+95.91
PC	63+95.91
PT	65+95.91
Δ	1° 00′ 00.0″ (LT)
D	0° 30′ 00.0″
L	200.00′
T	100.00′
R	11,458.87′

CURVE 9 – ROUTE 100	
PI	71+98.46
PC	71+22.85
PT	72+73.98
Δ	4° 32′ 00.0″ (LT)
D	2° 59′ 58.8″
L	151.13′
T	75.60′
R	1,910.08′

MATCHLINE STA. 61+50.00

MATCHLINE STA. 74+00.00

POT STA 8+71.85

PT STA 8+33.64

POT STA 107+20.00

POT STA 86+00.00

POT STA 85+00.00

POT STA 80+00.00

POT STA 95+00.00

POT STA 105+00.00

POT STA 79+00.00

PT STA 94+50.41

PC STA 94+00.20

PT STA 93+18.14

PRC STA 7+72.89

PC STA 6+74.72

PC STA 4+90.57

PT STA 5+91.29

PI STA 69+37.51

PC STA 71+22.85

PT STA 72+73.98

CURVE 8

CURVE 9

℄ ROUTE 100

N 84° 38′ 54″ W

N 85° 38′ 54″ W

N 84° 58′ 03″ W

S 7° 44′ 09″ W

S 7° 47′ 49″ W

S 5° 30′ 30″ W

S 14° 21′ 19″ W

S 12° 09′ 03″ W

S 24° 29′ 53″ W

S 17° 00′ 56″ W

CURVE 1

CURVE 2

CURVE 3

CURVE 4

CURVE 5

CURVE 6

BOMPART AVENUE

RUTH AVENUE

DOROTHY AVENUE

ROGERS PARKWAY

MARY AVENUE (SOUTH)

R/W LINE

TEMP. ESM'T (CONST.)

PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)

PERM. ESM'T. (SIDEWALK, UTILITY, DRAINAGE & WALL)

PERM. ESM'T. (SIDEWALK, UTILITY & WALL)

PERM. ESM'T. (SIDEWALK & UTILITY)

EXIST. R/W

TEMP. ESM'T. (CONST.)

SCALE

0 50 100 150

SHEET PLAN SHEETS 51 & 52 (OF 52) FOR ADDITIONAL ALIGNMENT INFORMATION

CURVE DATA FOR DOROTHY AVE & ROGERS PARKWAY PROVIDED FOR ON PLAN SHEET 52 OF 52.

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DATE PREPARED
10/22/2019

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	148

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION	REV.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ALIGNMENT SHEETS
ROUTE 100
SHEET 3 OF 10

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CURVE 10 - ROUTE 100	
PI	83+79.17
PC	83+29.17
PCC	84+29.17
Δ	1° 28′ 30.0″ (LT)
D	1° 28′ 30.0″
L	100.00′
T	50.00′
R	3,884.46′

CURVE 11 - ROUTE 100	
PI	118+59.65
PCC	118+09.65
PT	119+09.65
Δ	1° 28′ 30.0″ (LT)
D	1° 28′ 30.0″
L	100.00′
T	50.00′
R	3,884.46′

SCALE 0 50 100 150

MATCHLINE STA. 74+00.00
POT STA 111+75.00
PI STA 77+17.88
S 7° 50′ 46″ W
TEMP. ESM'T. (CONST.)
EXIST. R/W
PERM. ESM'T. (SIDEWALK & UITLITY)
TEMP. ESM'T. (CONST.)
EXIST. R/W
POT STA 117+25.00
TEMP. ESM'T. (CONST.)
EXIST. R/W
COLLIER AVENUE
S 7° 45′ 27″ W
R/W LINE
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & WALL)
EXIST. R/W
PC STA 83+29.17
PCC STA 118+09.65
PT STA 119+09.65
TEMP. ESM'T. (CONST.)
EXIST. R/W
MATCHLINE STA. 120+30.00
PI STA 110+06.35
N 89° 30′ 03″ W
℄ ROUTE 100
N 89° 22′ 03″ W
POT STA 115+00.00
POT STA 120+00.00
CURVE 11
CURVE 10
PI STA 110+00.00
S 2° 22′ 37″ E
POT STA 119+00.00
EQUATION:
Sta 84+29.17 BK
Sta 118+09.65 AH
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
EXIST. R/W
PERM. ESM'T. (SIDEWALK & UTILITY)
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
PERM. ESM'T. (SIDEWALK & UTILITY)
TEMP. ESM'T. (CONST.)
BRENTWOOD BOULEVARD
S 7° 43′ 47″ W
POT STA 108+00.00
ANNELEE AVENUE
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)

CURVE 12 - ROUTE 100	
PI	123+79.55
PC	123+31.63
PT	124+27.46
Δ	1° 55′ 00.0″ (LT)
D	2° 00′ 00.0″
L	95.83′
T	47.92′
R	2,864.79′

CURVE 13 - ROUTE 100	
PI	125+89.85
PC	125+16.31
PT	126+62.65
Δ	14° 00′ 00.0″ (LT)
D	9° 34′ 00.0″
L	146.34′
T	73.54′
R	598.91′

CURVE 14 - ROUTE 100	
PI	127+98.84
PC	127+13.40
PT	128+84.23
Δ	3° 25′ 00.0″ (LT)
D	2° 00′ 00.0″
L	170.83′
T	85.44′
R	2,864.79′

CURVE 1 - HIGH SCHOOL DR	
PI	128+35.38
PC	128+23.17
PT	128+47.12
Δ	27° 26′ 12.1″ (RT)
D	114° 35′ 29.6″
L	23.94′
T	12.21′
R	50.00′

CURVE 2 - HIGH SCHOOL DR	
PI	128+73.97
PC	128+61.77
PT	128+85.71
Δ	27° 26′ 12.1″ (LT)
D	114° 35′ 29.6″
L	23.94′
T	12.21′
R	50.00′

CURVE 3 - HIGH SCHOOL DR	
PI	129+54.34
PC	129+38.18
PT	129+69.45
Δ	35° 49′ 47.1″ (LT)
D	114° 35′ 29.6″
L	31.27′
T	16.16′
R	50.00′

SCALE 0 50 100 150

MATCHLINE STA. 120+30.00
POT STA 126+00.00
TEMP. ESM'T. (CONST.)
EXIST. R/W
PERM. ESM'T. (SIDEWALK & UTILITY)
℄ ROUTE 100
S 87° 40′ 57″ W
POT STA 125+00.00
S 2° 40′ 01″ E
MANDERLY DRIVE
PT STA 124+27.46
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK & UTILITY)
EXIST. R/W
BEARING 6
CURVE 4
PT STA 126+62.65
PC STA 127+13.40
PT STA 128+84.23
PI STA 130+67.98
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
S 20° 47′ 36″ E
BREMERTON ROAD
CONT. PROJECT J6S1718
END PROJECT J6S1718B
POT STA 141+00.00
MATCHLINE STA. 131+60.90
TEMP. ESM'T. (CONST.)
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
EXIST. R/W
MATCHLINE STA. 132+80.00
PI STA 140+18.04
S 68° 20′ 57″ W
POT STA 140+00.00
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
CURVE 12
S 85° 45′ 57″ W
POT STA 130+00.00
BEARING 4
CURVE 13
S 71° 45′ 57″ W
CURVE 14
POT STA 135+00.00
PC STA 125+16.31
PT STA 129+69.45
CURVE 3
PC STA 129+38.18
PT STA 134+58.17
EXIST. R/W
PERM. ESM'T. (SIDEWALK, UTILITY & DRAINAGE)
TEMP. ESM'T. (CONST.)
PC STA 123+31.63
PERM. ESM'T. (SIDEWALK & UTILITY)
TEMP. ESM'T. (CONST.)
PT STA 128+85.71
CURVE 2
PC STA 128+61.77
PT STA 128+47.12
PC STA 128+23.17
POT STA 128+17.93
HIGH SCHOOL DRIVE
BEARING 3
R/W LINE
BEARING 5
PC STA 134+19.68
POT STA 133+52.12
HIGH SCHOOL DRIVE
BEARING 1
CURVE 1
BEARING 2
TEMP. ESM'T. (CONST.)
TEMP. ESM'T. (CONST.)
MATCHLINE STA. 131+23.17
POT STA 139+00.00
BREMERTON ROAD
END PROJECT J6S1718B
CONT. PROJECT J6S1718

CURVE 4 - HIGH SCHOOL DR	
PI	134+39.94
PC	134+19.68
PT	134+58.17
Δ	44° 06′ 54.9″ (LT)
D	114° 35′ 29.6″
L	38.50′
T	20.26′
R	50.00′

HIGH SCHOOL DRIVE BEARING INFO:
BEARING 1: S 22° 03′ 32″ W
BEARING 2: S 49° 29′ 44″ W
BEARING 3: S 22° 03′ 32″ W
BEARING 4: S 13° 46′ 15″ E
BEARING 5: S 26° 13′ 51″ W
BEARING 6: S 17° 53′ 04″ E

DATE PREPARED 10/22/2019
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 149
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

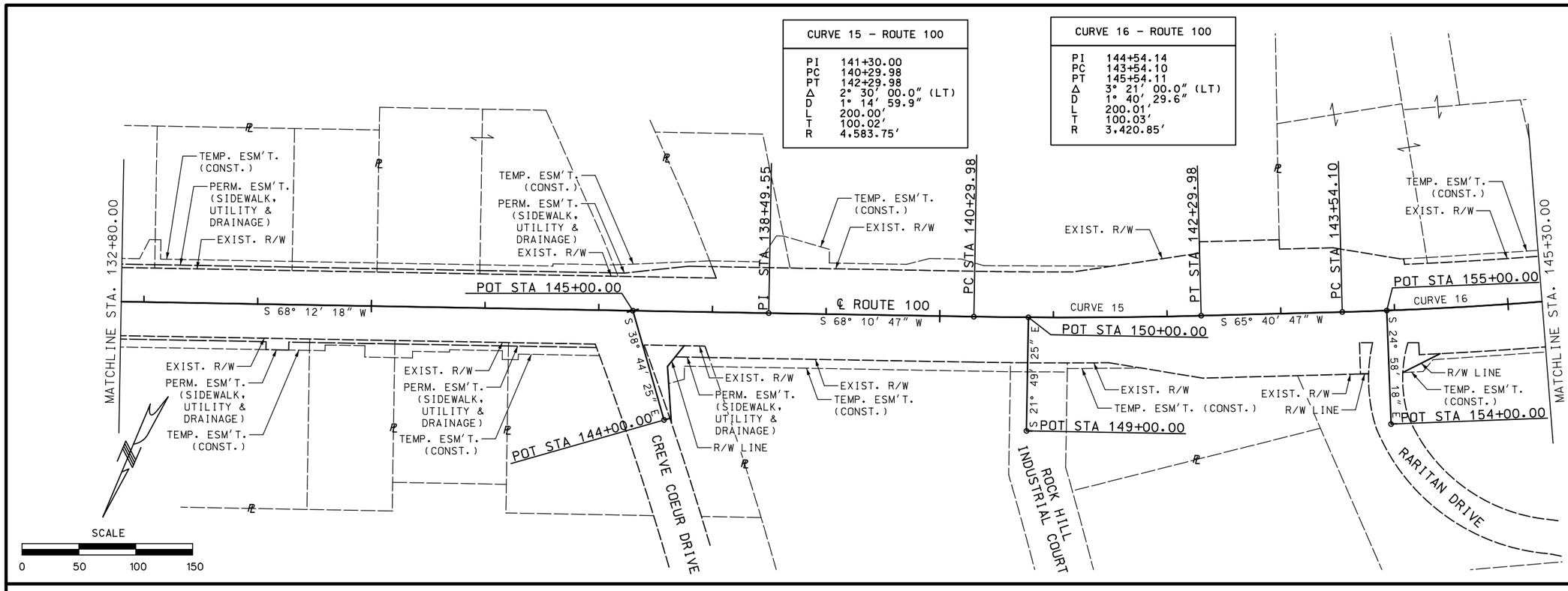
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

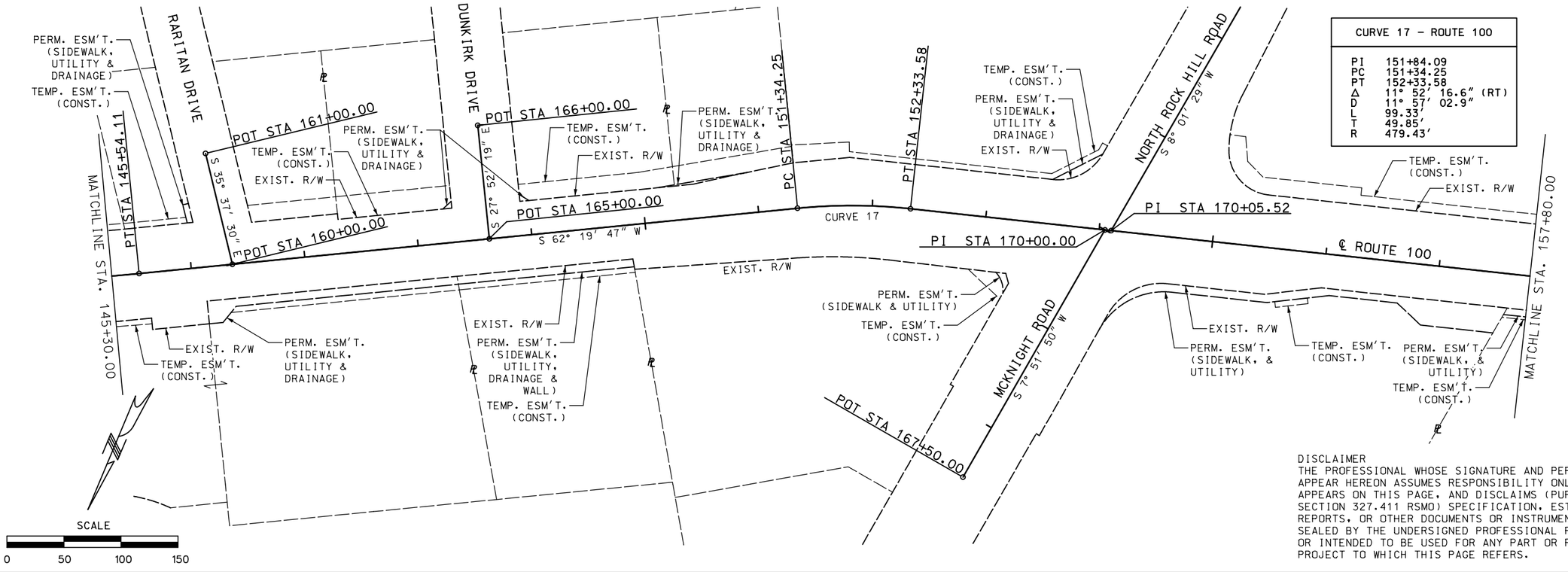
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ALIGNMENT SHEETS
ROUTE 100
SHEET 4 OF 10

REV.

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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 150
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

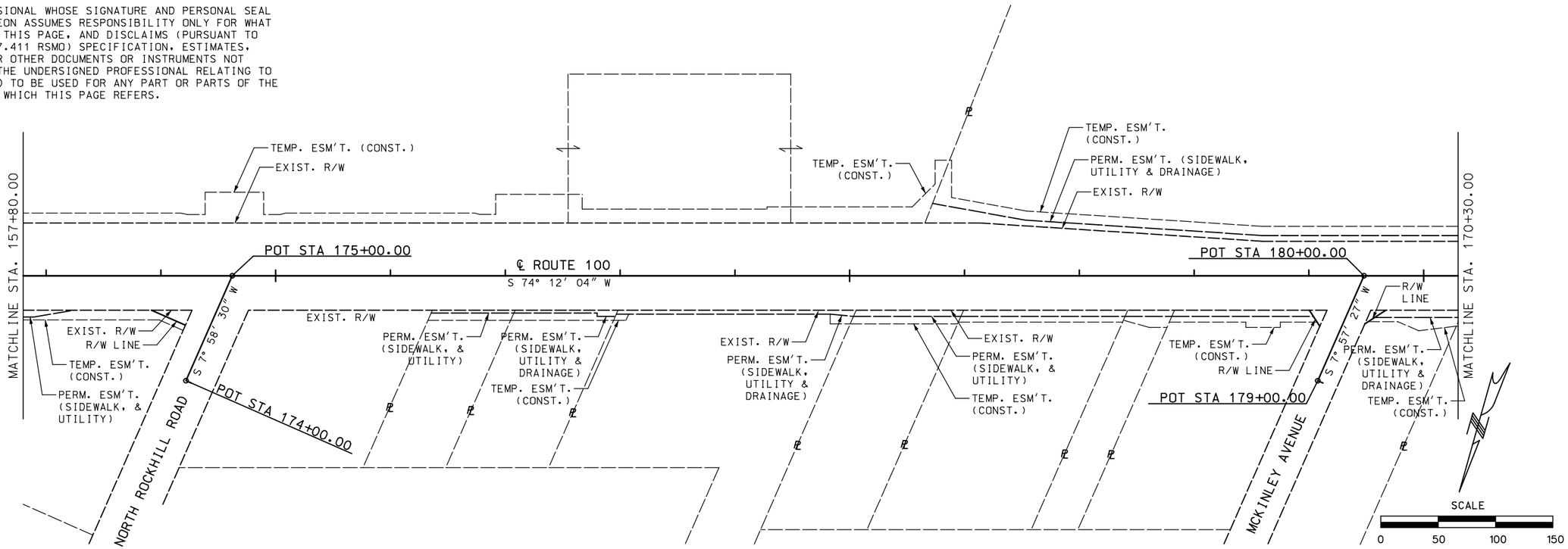
DESCRIPTION | DATE | REV.

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JEFFERSON CITY, MO 65102
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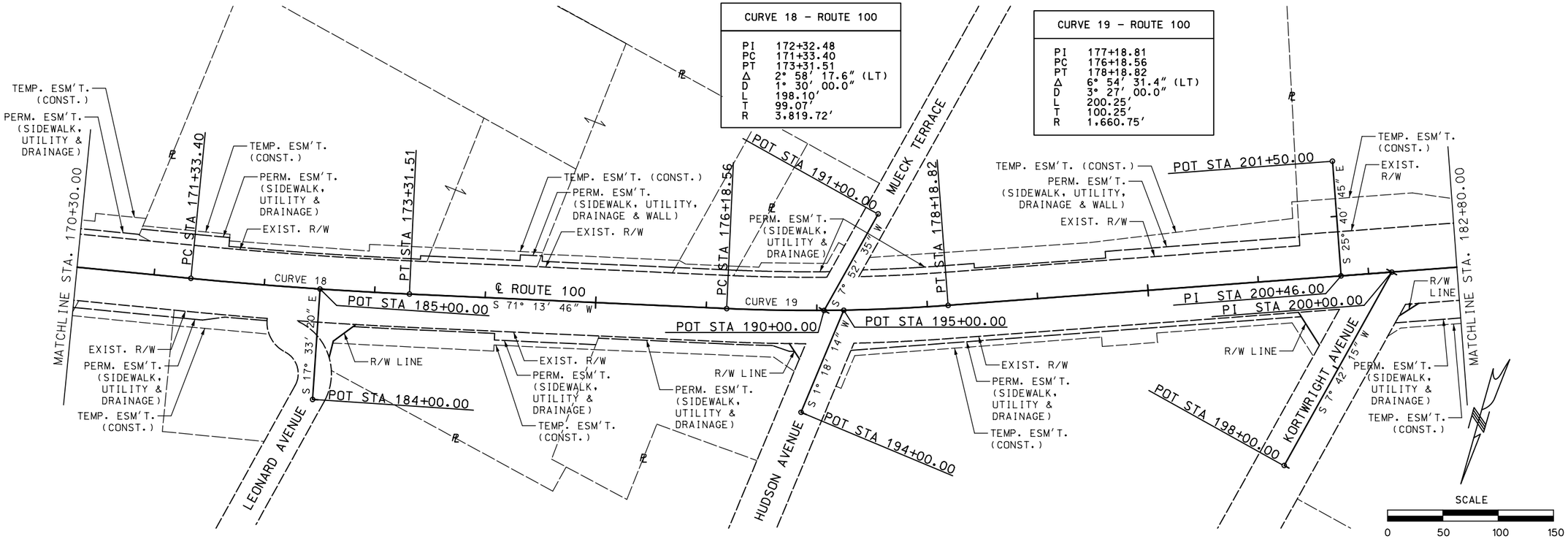
ALIGNMENT SHEETS
ROUTE 100
SHEET 5 OF 10

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CURVE 18 – ROUTE 100	
PI	172+32.48
PC	171+33.40
PT	173+31.51
Δ	2° 58' 17.6" (LT)
D	1° 30' 00.0"
L	198.10'
T	99.07'
R	3,819.72'

CURVE 19 – ROUTE 100	
PI	177+18.81
PC	176+18.56
PT	178+18.82
Δ	6° 54' 31.4" (LT)
D	3° 27' 00.0"
L	200.25'
T	100.25'
R	1,660.75'



DATE PREPARED
10/22/2019

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	151

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
. . . . .	. . . . .

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105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

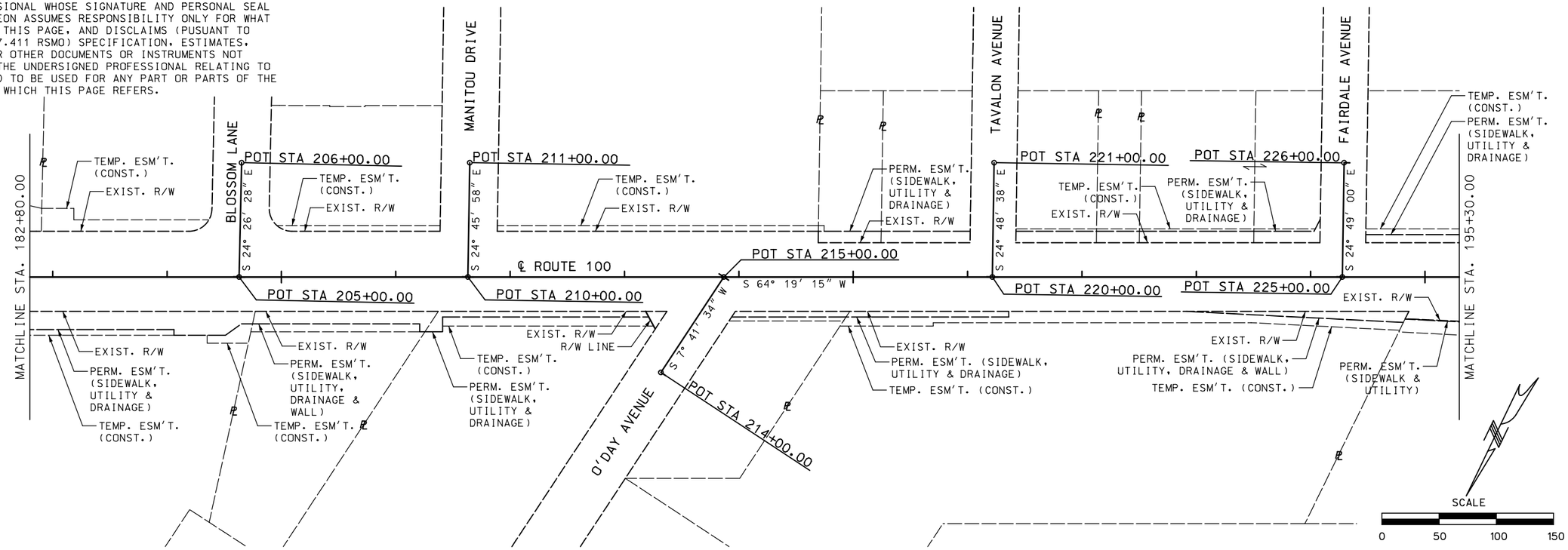
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ALIGNMENT SHEETS
ROUTE 100
SHEET 6 OF 10

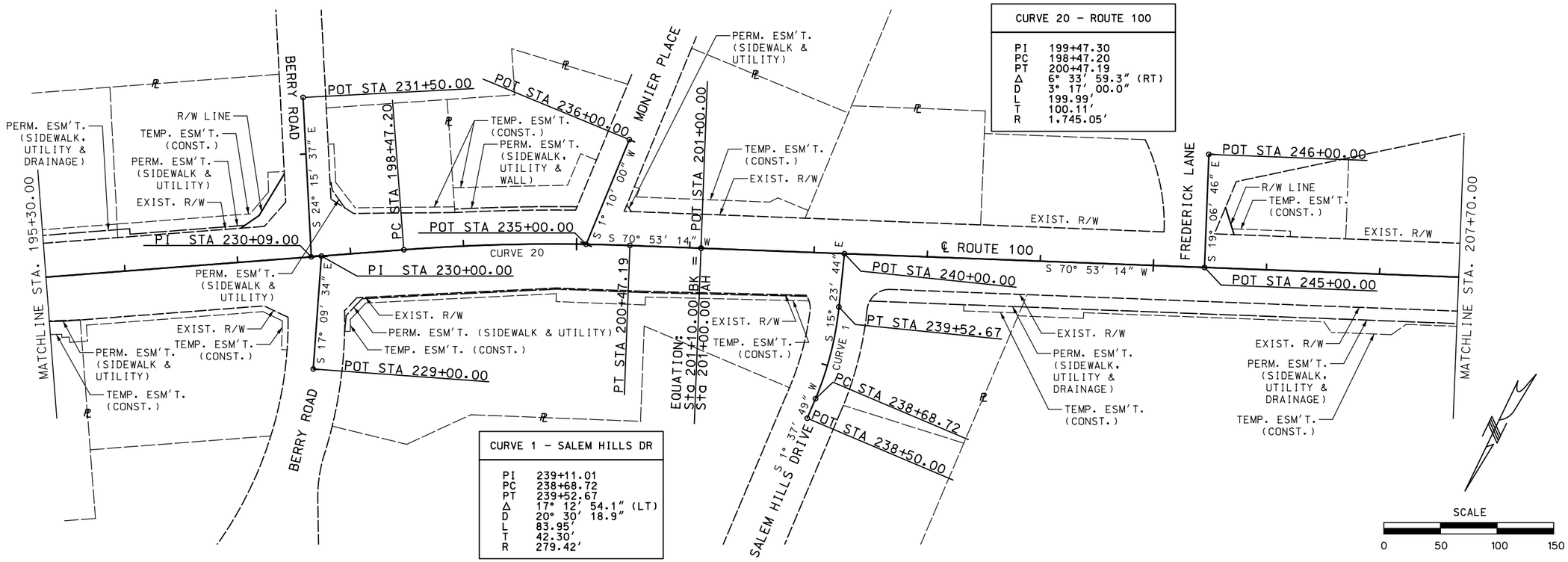
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CURVE 20 – ROUTE 100	
PI	199+47.30
PC	198+47.20
PT	200+47.19
Δ	6° 33' 59.3" (RT)
D	3° 17' 00.0"
L	199.99'
T	100.11'
R	1,745.05'



CURVE 1 – SALEM HILLS DR	
PI	239+11.01
PC	238+68.72
PT	239+52.67
Δ	17° 12' 54.1" (LT)
D	20° 30' 18.9"
L	83.95'
T	42.30'
R	279.42'

SCALE
0 50 100 150

DATE PREPARED
10/22/2019

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	152

COUNTY
ST. LOUIS
JOB NO.
J6S1718
CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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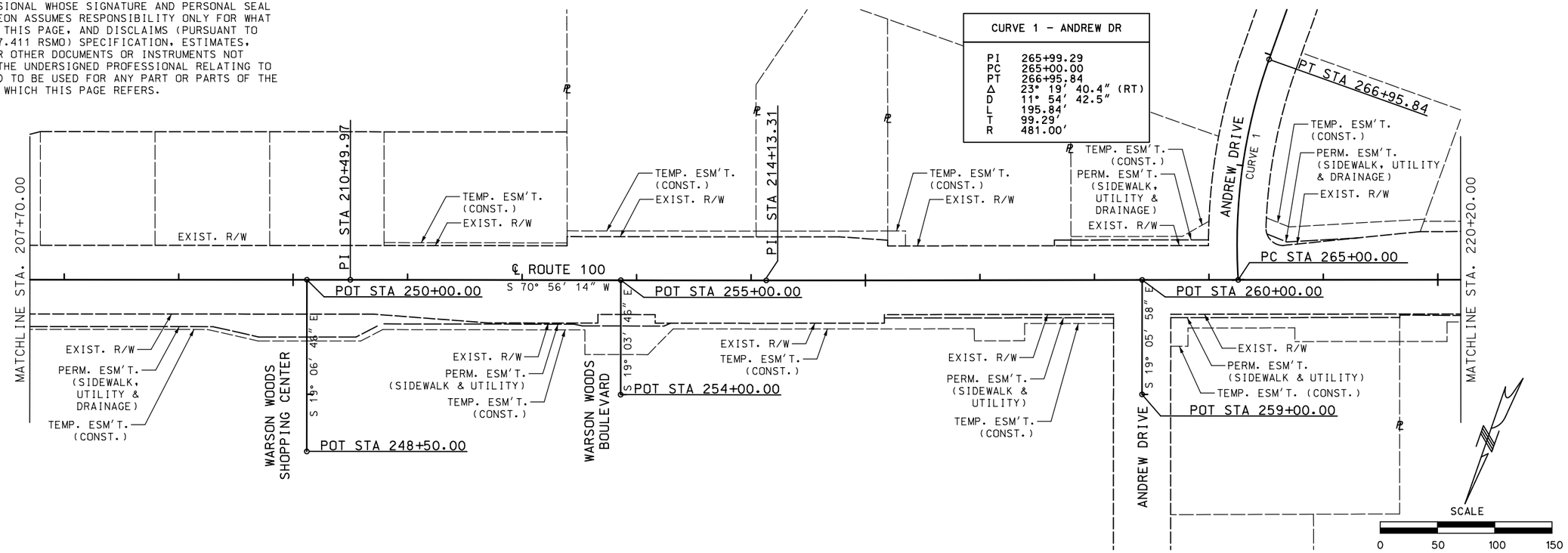
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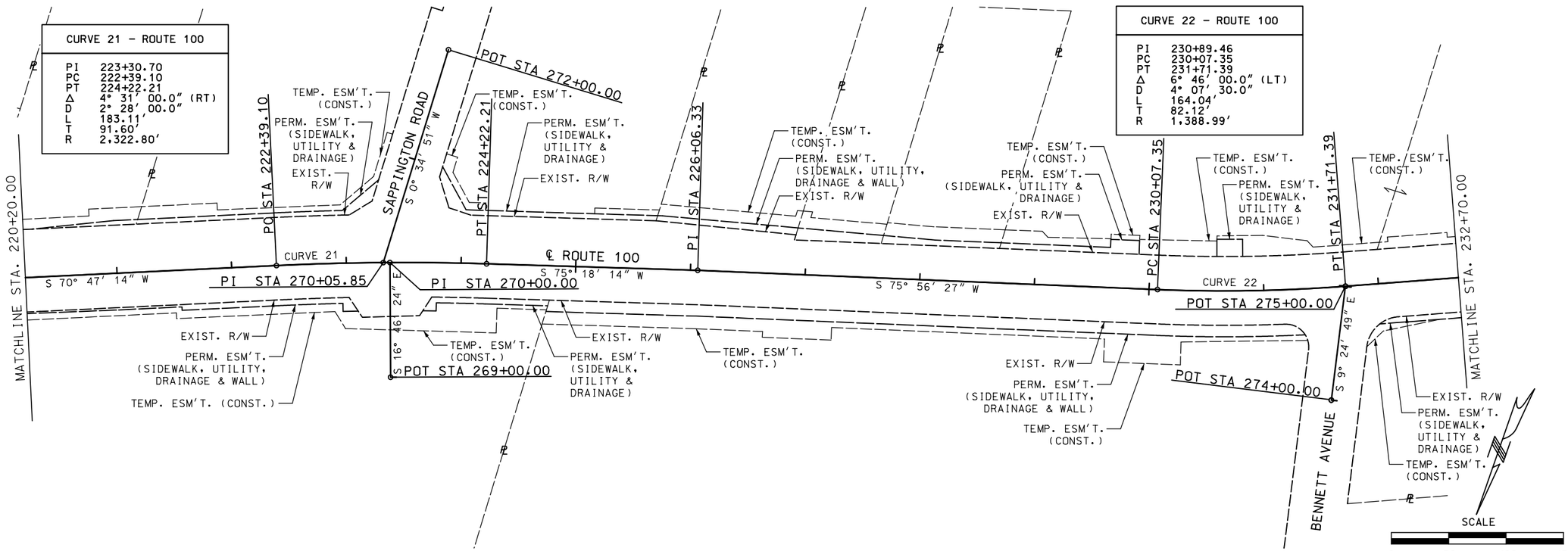
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SHEET 7 OF 10

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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 153
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

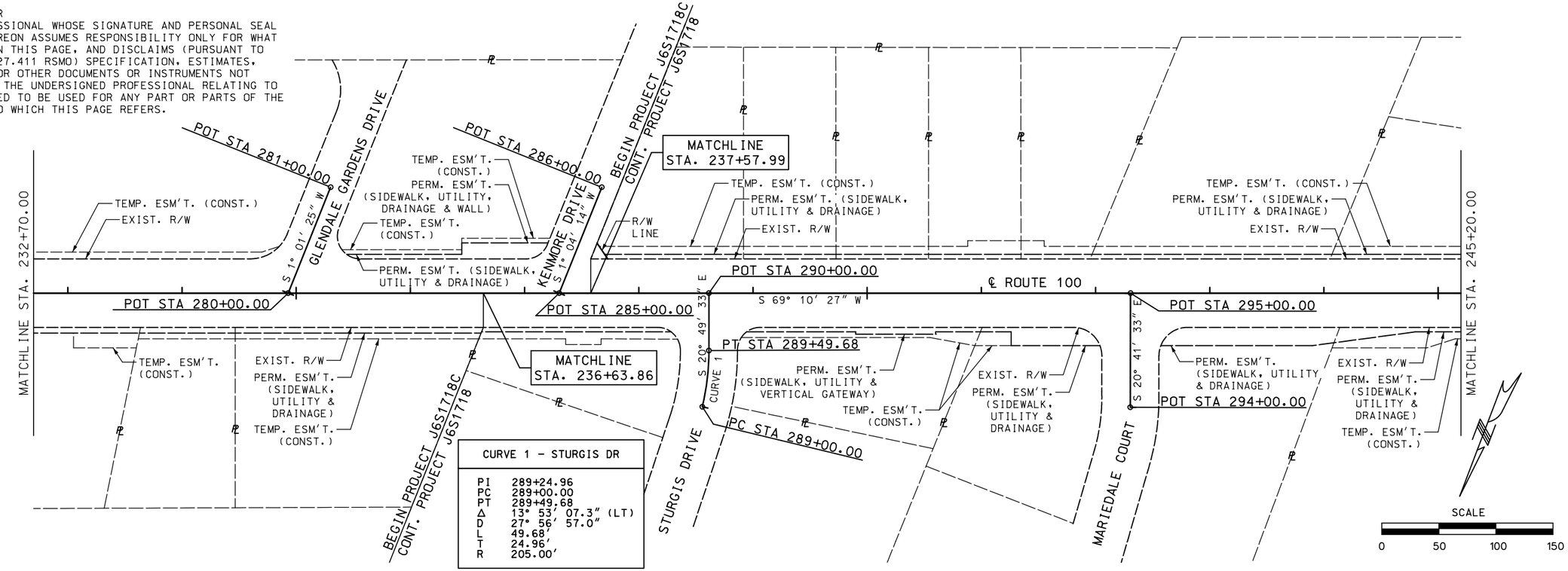
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ALIGNMENT SHEETS
ROUTE 100
SHEET 8 OF 10

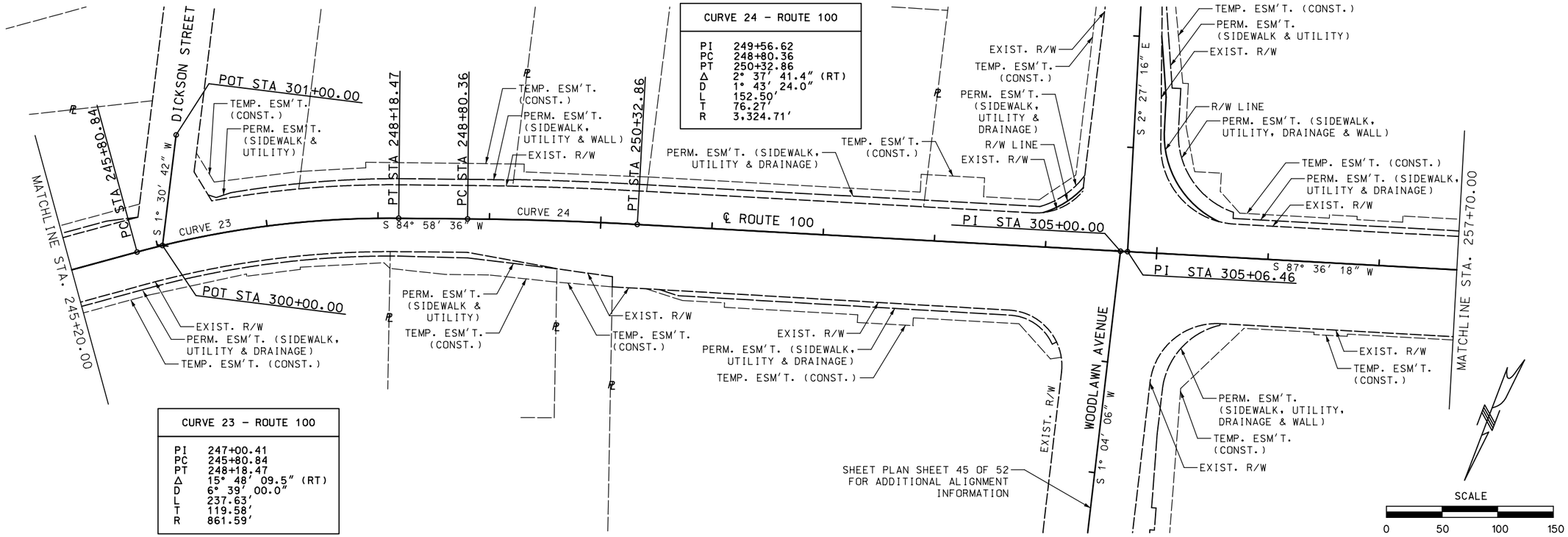
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CURVE 1 – STURGIS DR

PI	289+24.96
PC	289+00.00
PT	289+49.68
Δ	13° 53' 07.3" (LT)
D	27° 56' 57.0"
L	49.68'
T	24.96'
R	205.00'



CURVE 24 – ROUTE 100

PI	249+56.62
PC	248+80.36
PT	250+32.86
Δ	2° 37' 41.4" (RT)
D	1° 43' 24.0"
L	152.50'
T	76.27'
R	3,324.71'

CURVE 23 – ROUTE 100

PI	247+00.41
PC	245+80.84
PT	248+18.47
Δ	15° 48' 09.5" (RT)
D	6° 39' 00.0"
L	237.63'
T	119.58'
R	861.59'

DATE PREPARED 10/22/2019
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 154
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

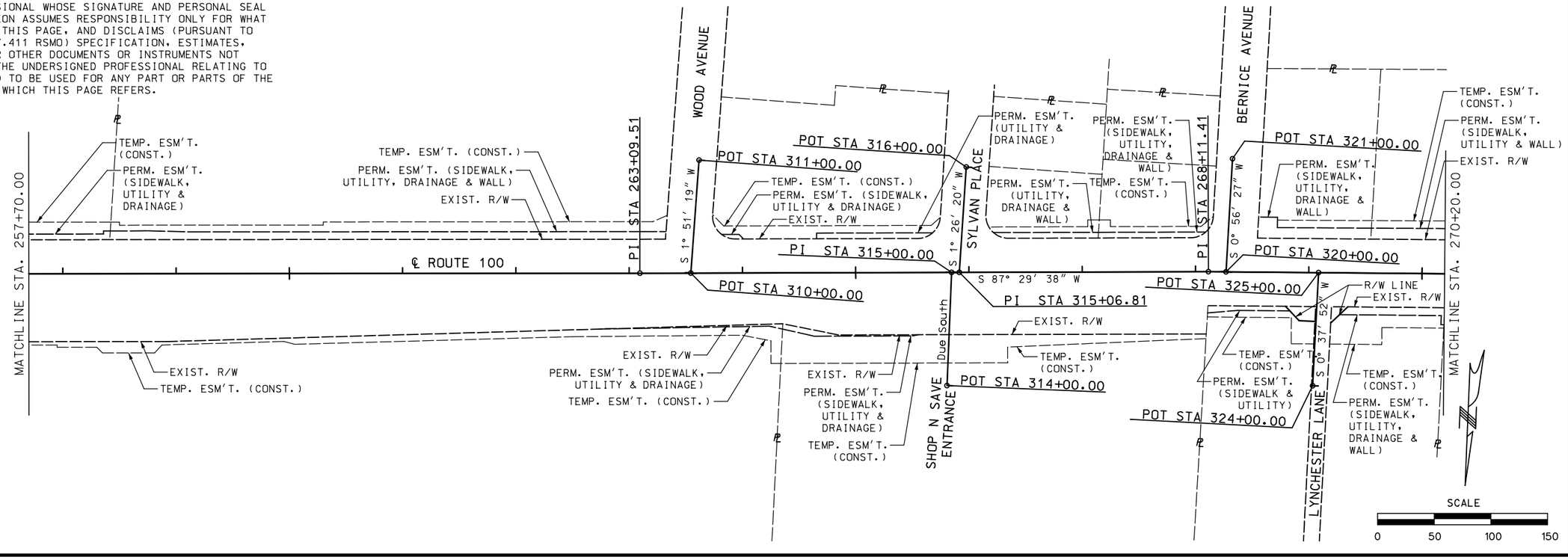
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

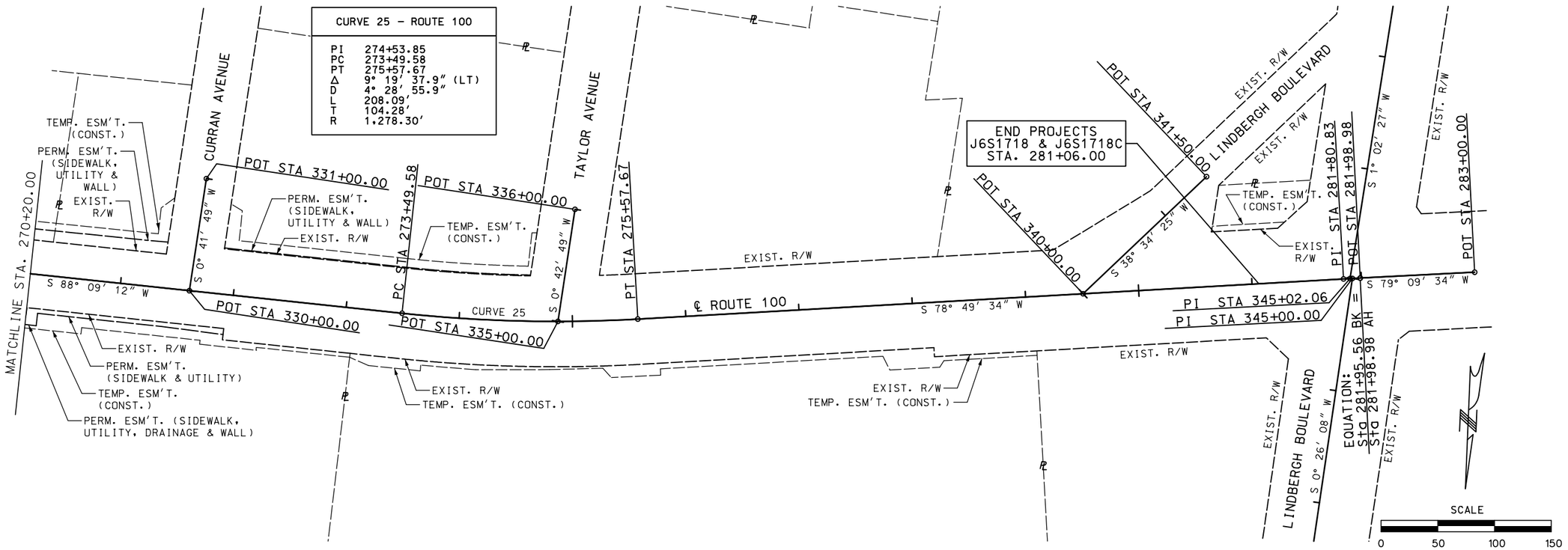
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ALIGNMENT SHEETS
ROUTE 100
SHEET 9 OF 10

REV.

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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 155
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

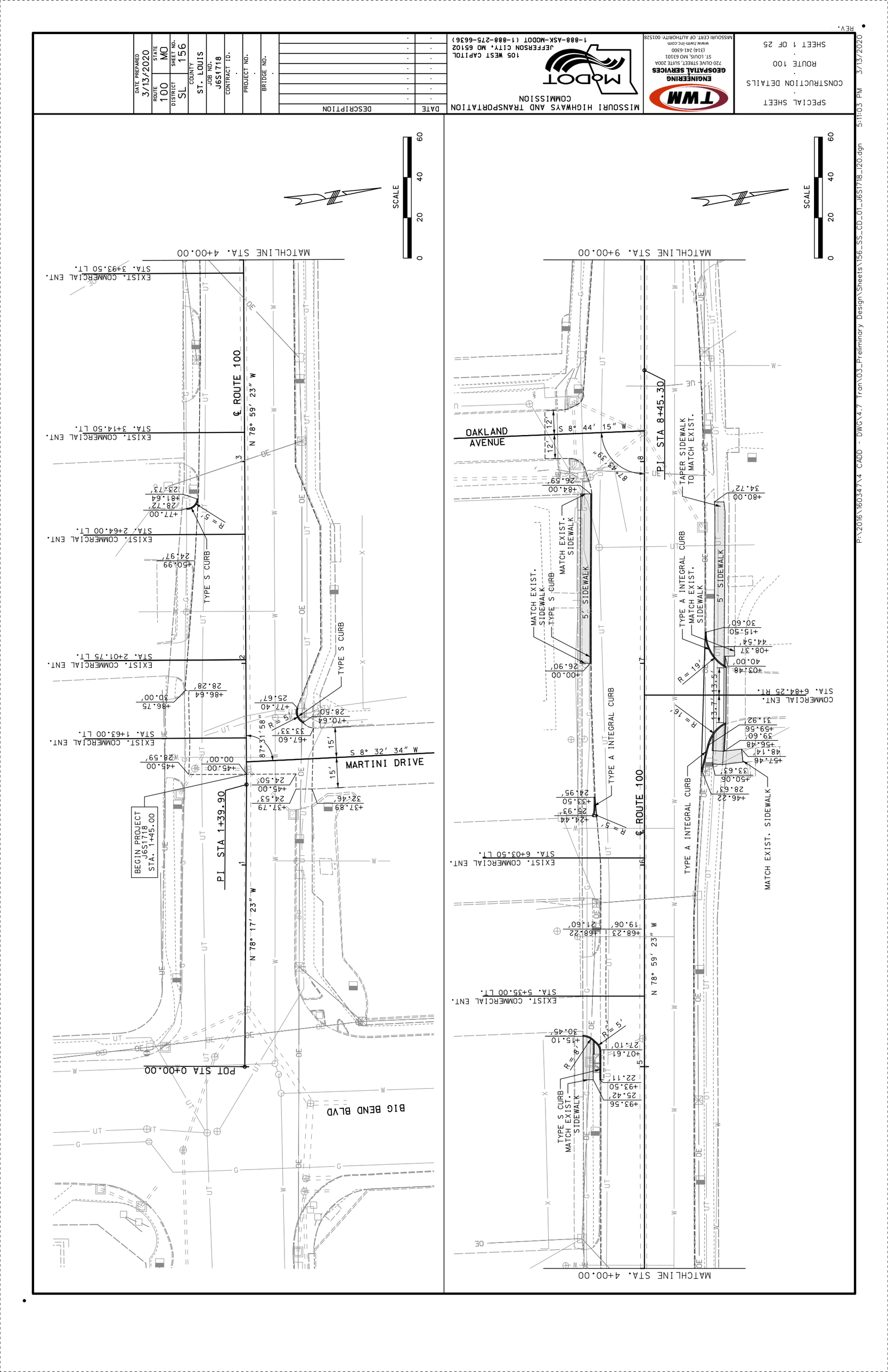
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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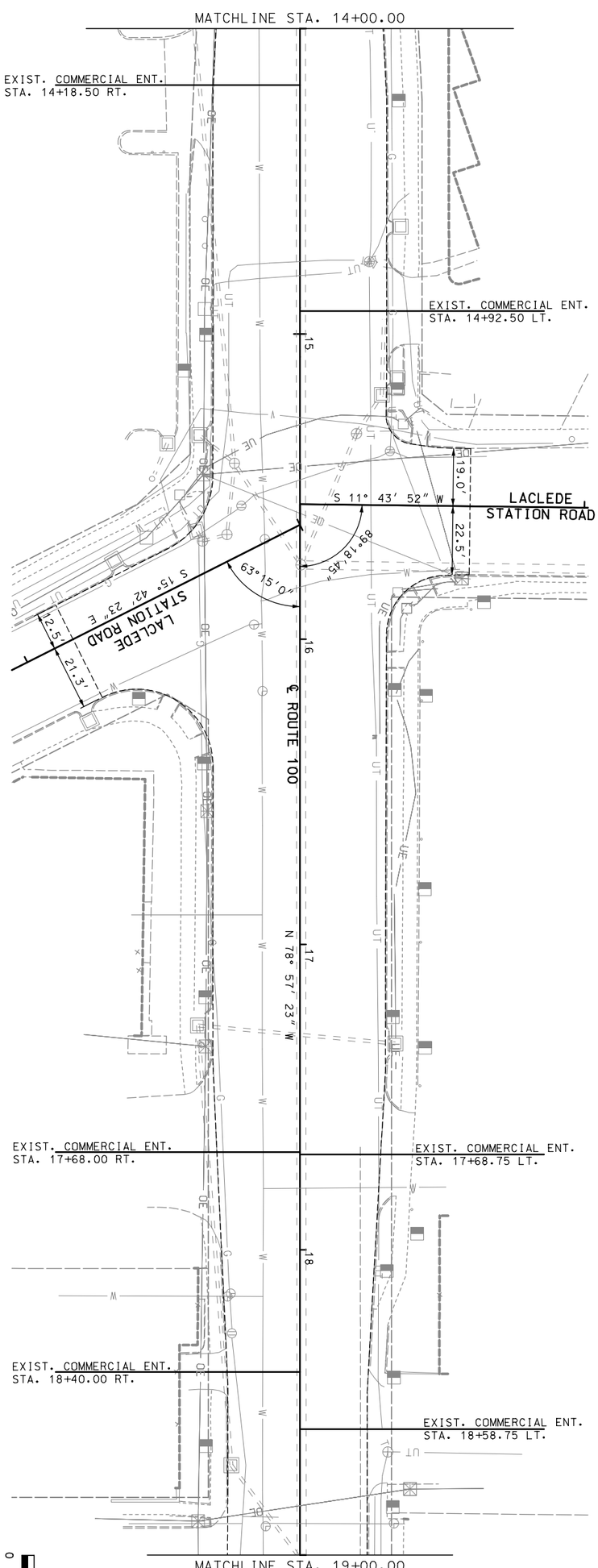
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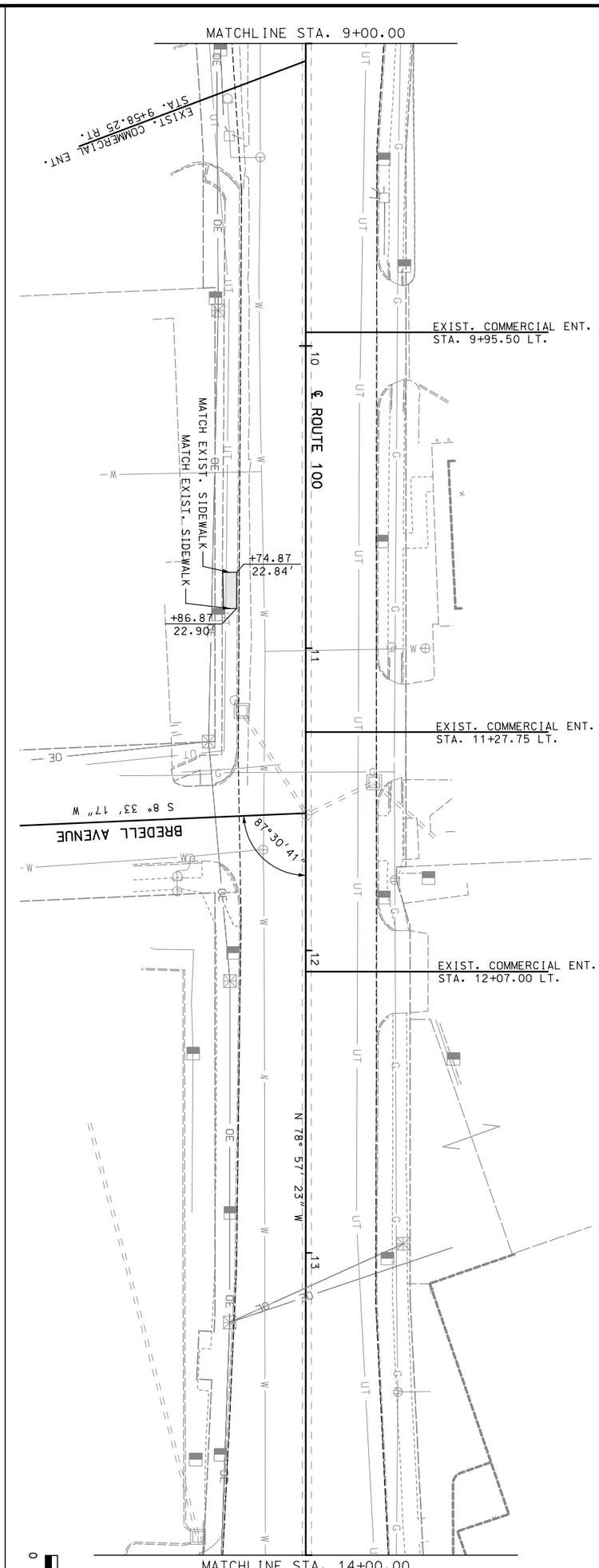
ALIGNMENT SHEETS
ROUTE 100
SHEET 10 OF 10

REV.

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SPECIAL SHEET
CONSTRUCTION DETAILS
ROUTE 100
SHEET 1 OF 25
3/13/2020 5:11:03 PM
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DATE
DESCRIPTION
REV.
DATE PREPARED 3/13/2020
ROUTE 100
STATE MO
DISTRICT SL
SHEET NO. 156
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
SCALE 0 20 40 60
MATCHLINE STA. 4+00.00
MATCHLINE STA. 9+00.00
℄ ROUTE 100
N 78° 59′ 23″ W
N 78° 17′ 23″ W
S 8° 44′ 15″ W
S 8° 32′ 34″ W
OAKLAND AVENUE
MARTINI DRIVE
BIG BEND BLVD
PI STA 8+45.30
PI STA 1+39.90
POT STA 0+00.00
BEGIN PROJECT J6S1718 STA. 1+45.00
TAPER SIDEWALK TO MATCH EXIST.
TYPE A INTEGRAL CURB
MATCH EXIST. SIDEWALK
TYPE S CURB
5′ SIDEWALK
EXIST. COMMERCIAL ENT.
STA. 6+84.25 RT.
STA. 6+03.50 LT.
STA. 5+35.00 LT.
STA. 3+93.50 LT.
STA. 3+14.50 LT.
STA. 2+64.00 LT.
STA. 2+01.75 LT.
STA. 1+63.00 LT.
R= 5′
R= 8′
R= 19′
87°31′58″
81°43′39″





SPECIAL SHEET
·
CONSTRUCTION DETAILS
·
ROUTE 100
·
SHEET 2 OF 25

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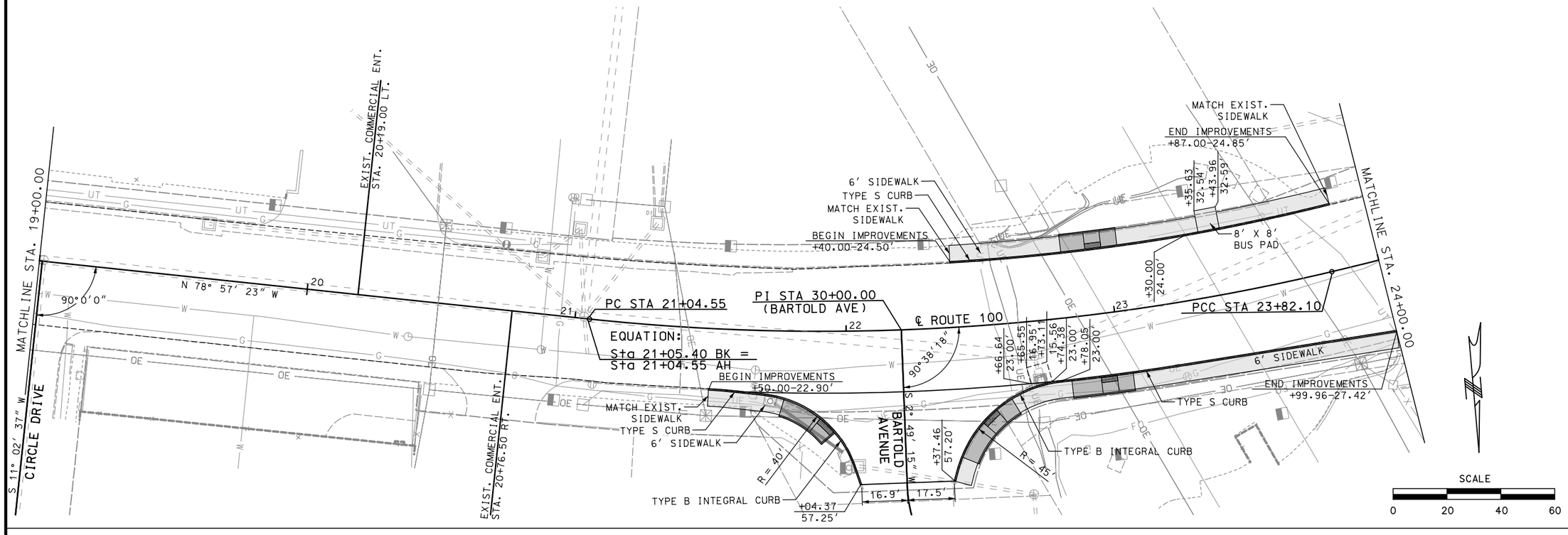
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1-888-ASK-MODOT (1-888-275-6636)

DATE	DESCRIPTION
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BRIDGE NO. ·
PROJECT NO. ·
CONTRACT ID. ·
JOB NO. J6S1718
COUNTY ST. LOUIS
DISTRICT SL
SHEET NO. 157
ROUTE 100
STATE MO
DATE PREPARED 3/13/2020

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REV.



DATE PREPARED 3/13/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 158

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

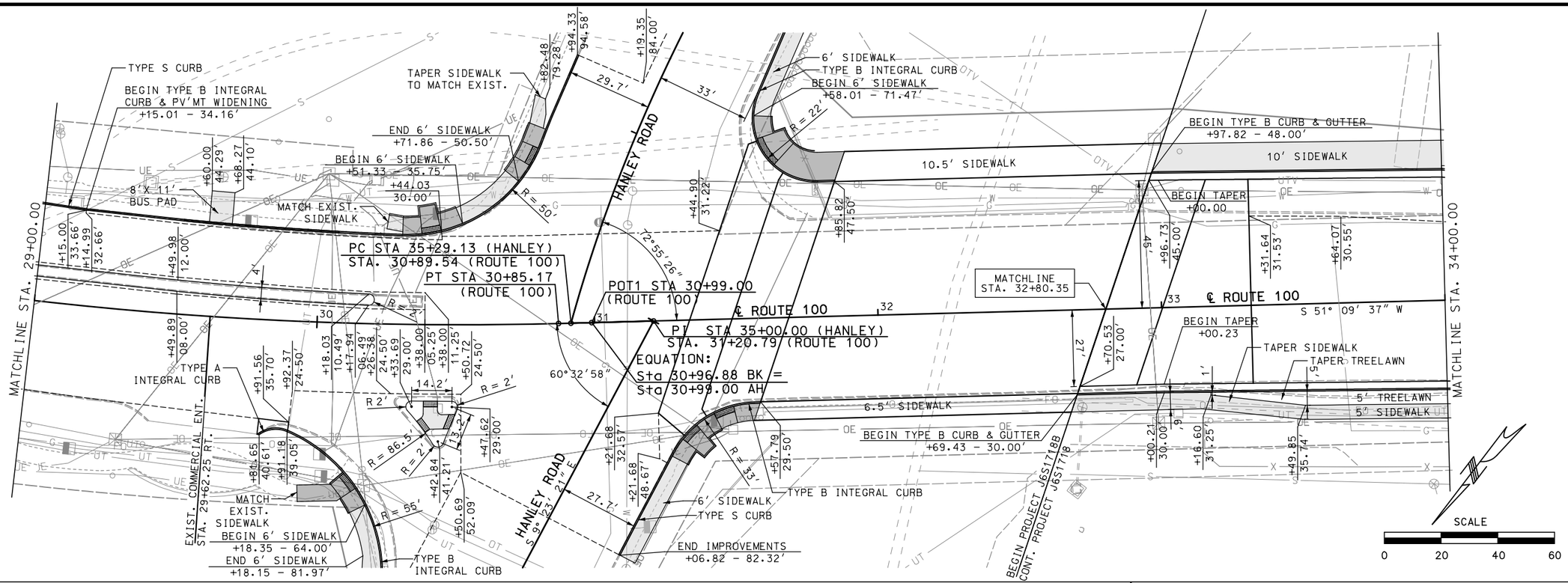
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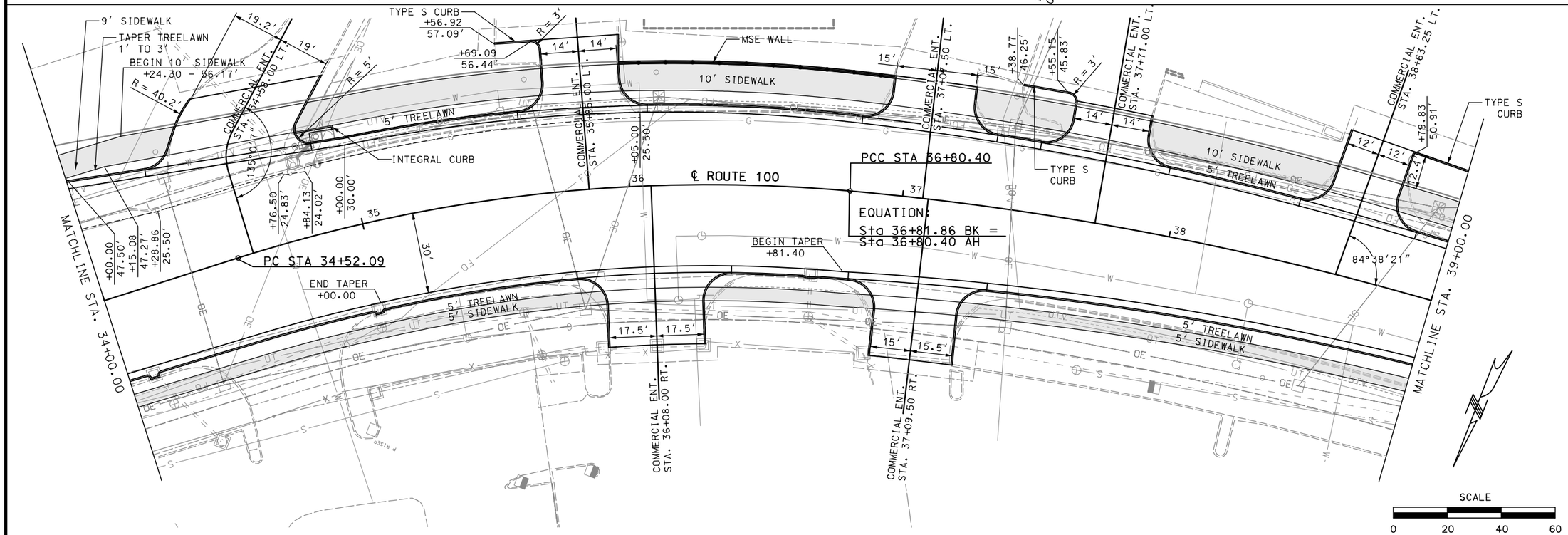
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SPECIAL SHEET
.
CONSTRUCTION DETAILS
.
ROUTE 100
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SHEET 3 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	159
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION / DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

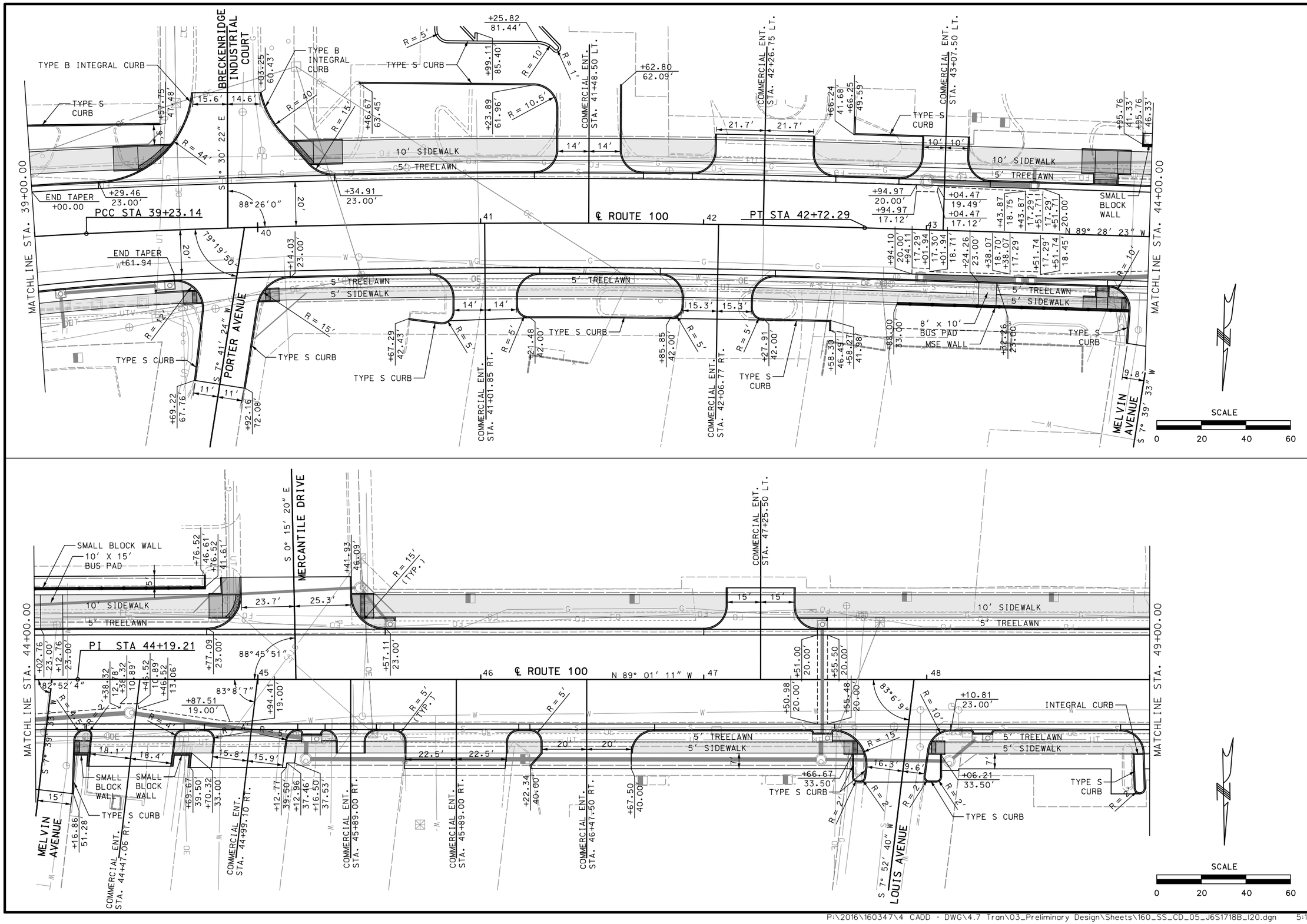
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 4 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	160
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

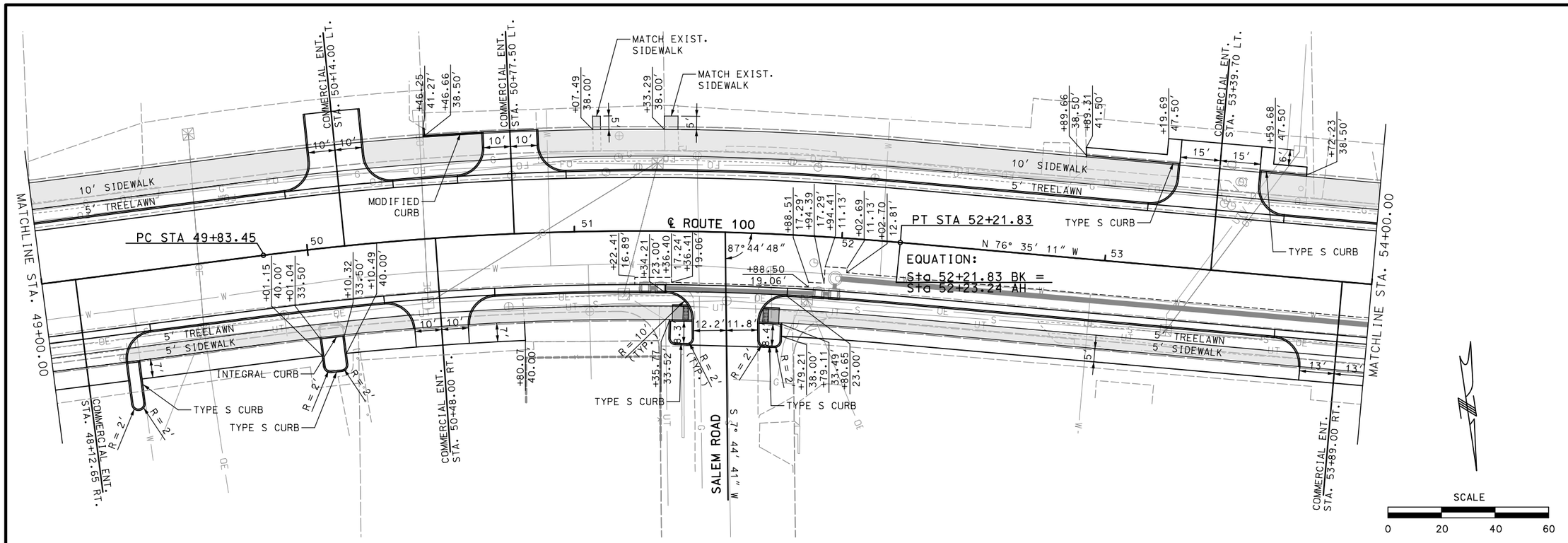
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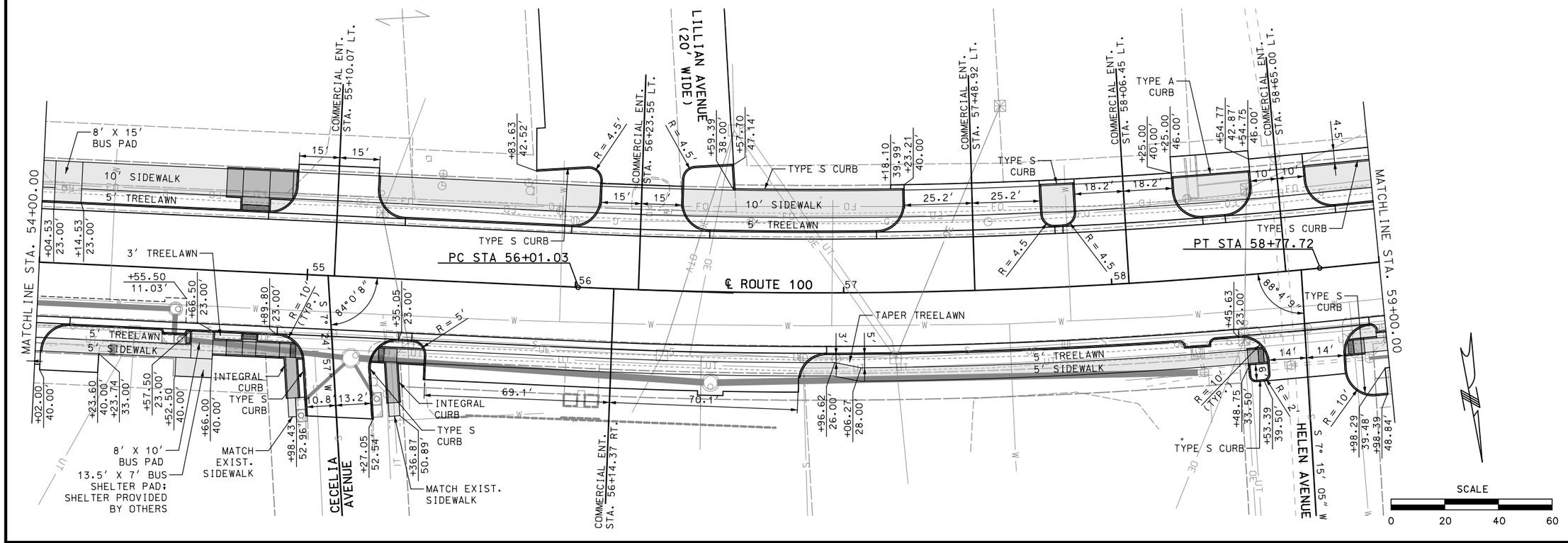
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 5 OF 25





DATE PREPARED
3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	161

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

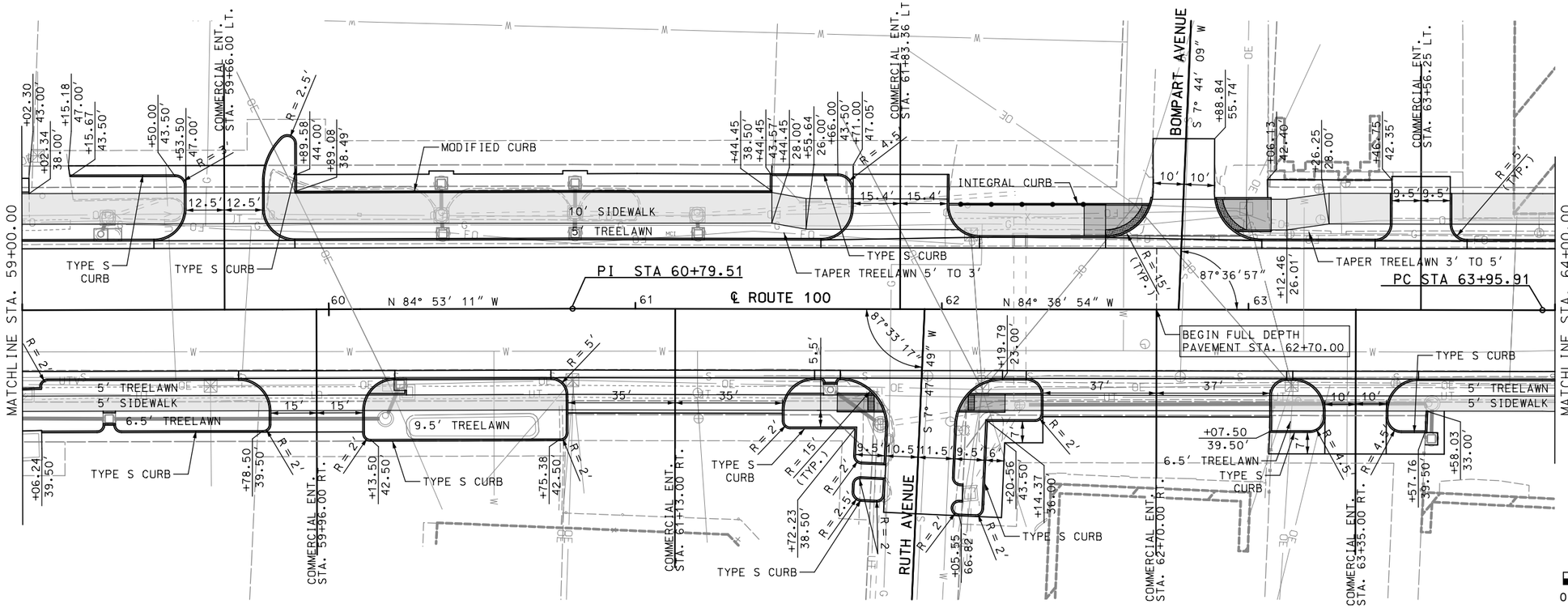
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

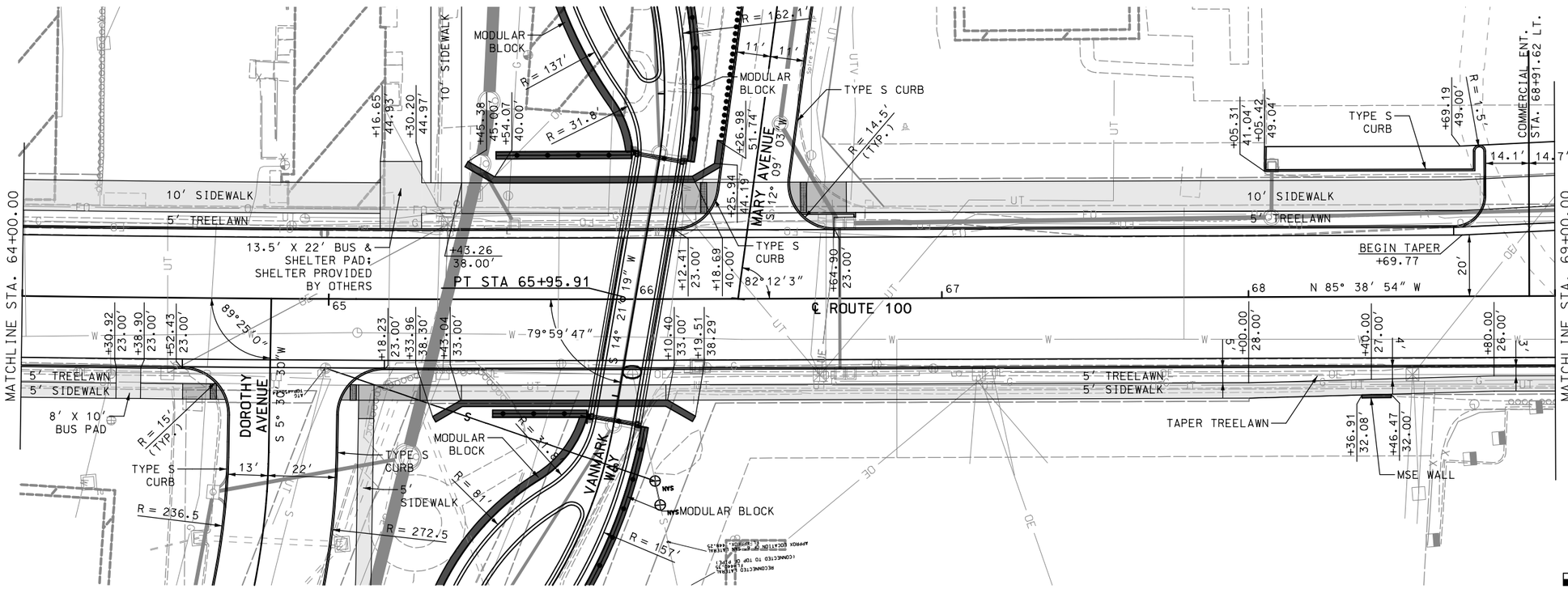
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 6 OF 25

REV.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 162
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
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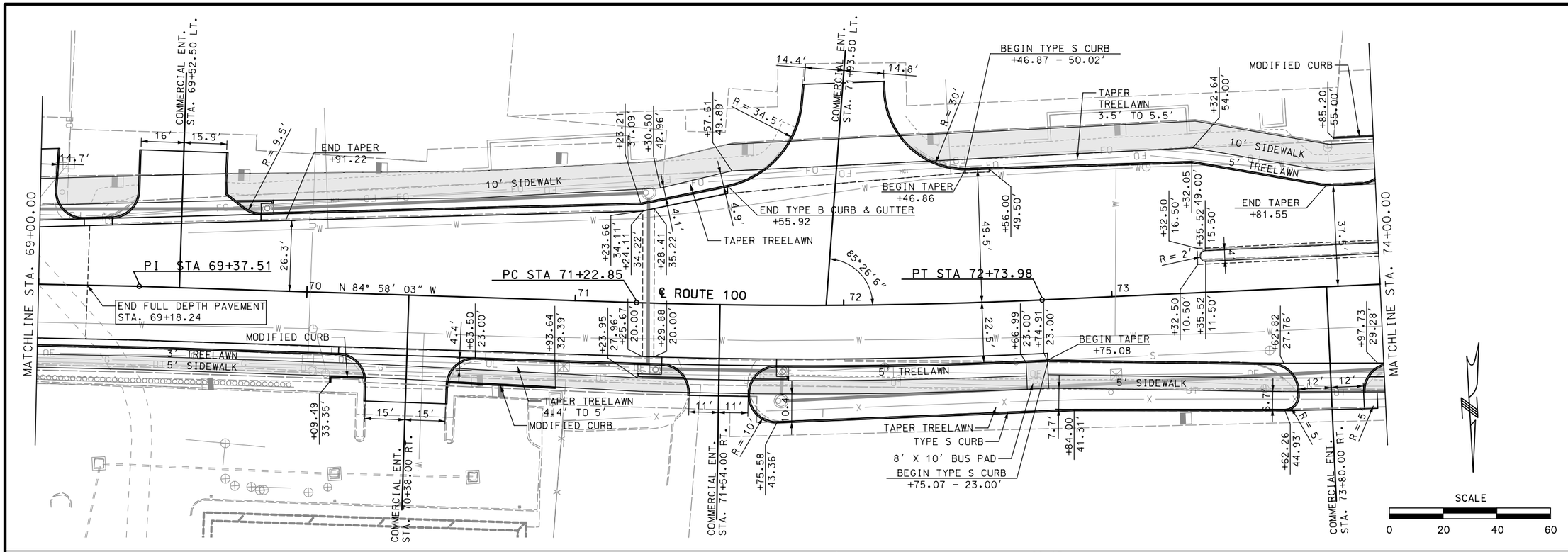
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 7 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	163
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

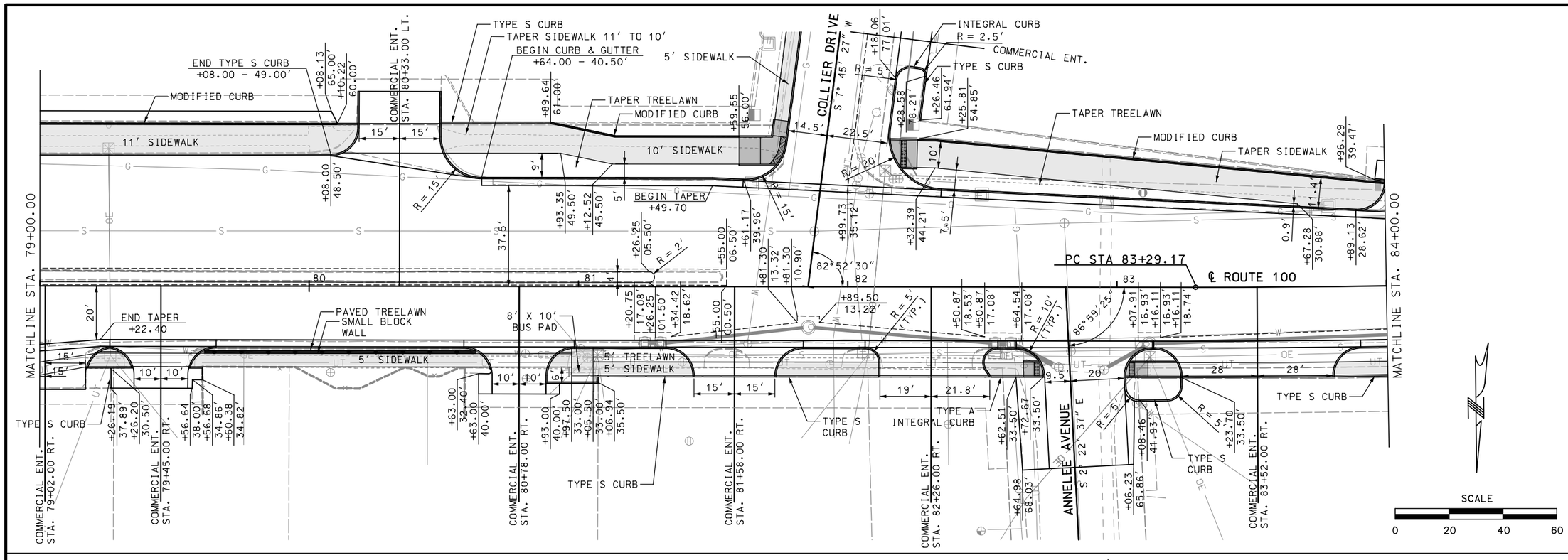
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

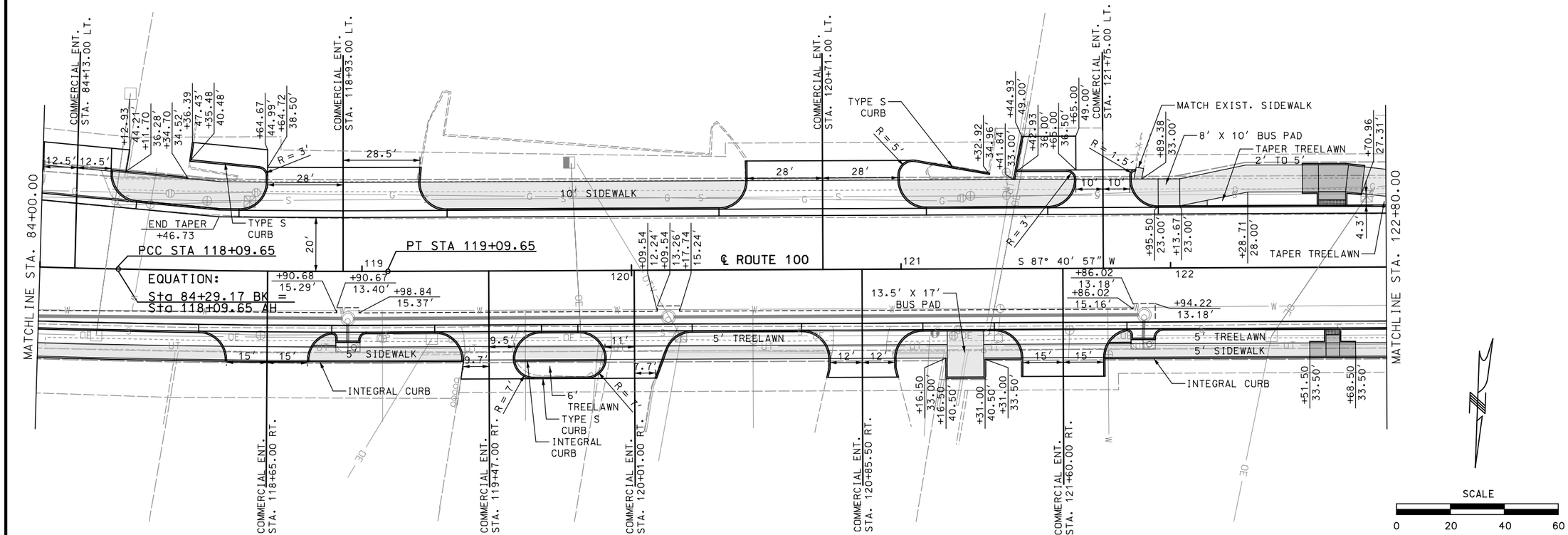
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 8 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	164
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION / DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

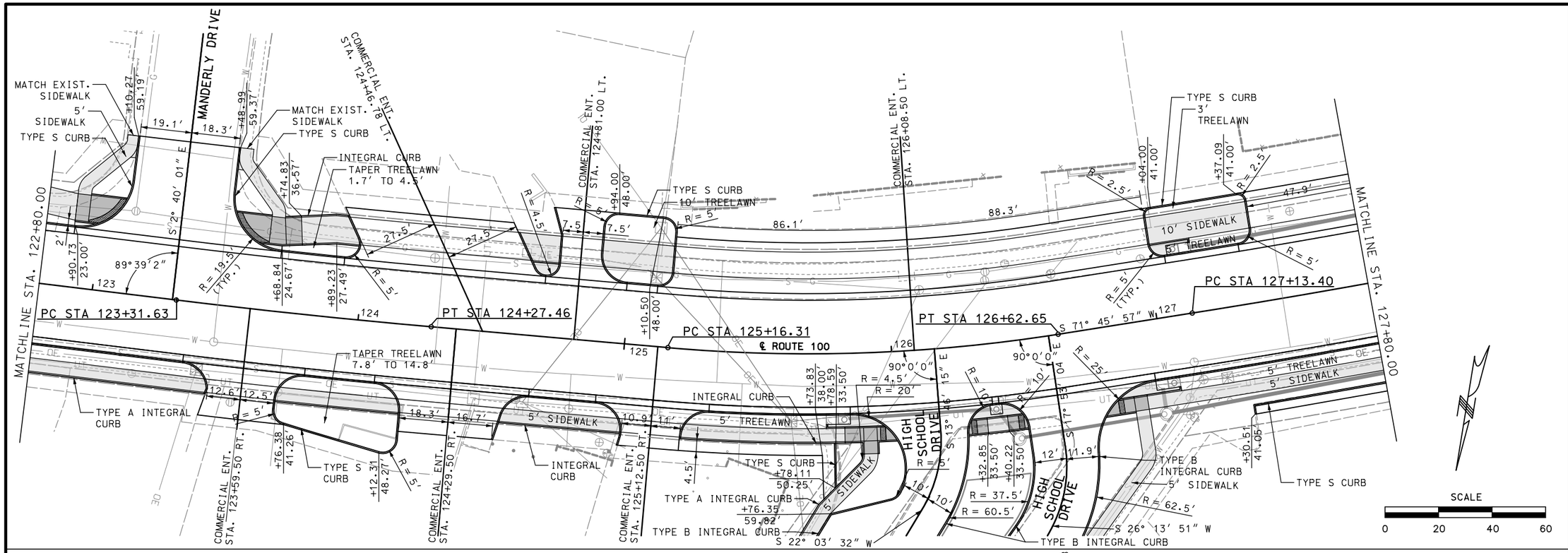
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

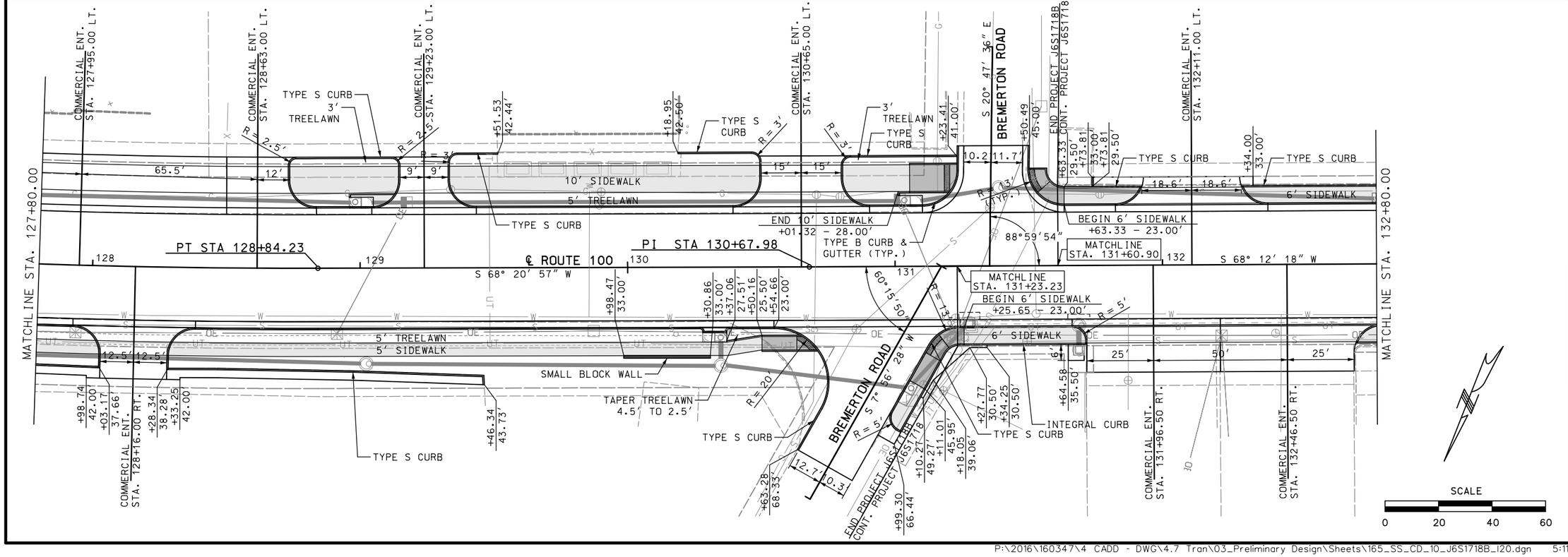
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 9 OF 25

REV.

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DATE PREPARED 3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	165

COUNTY: ST. LOUIS

JOB NO.: J6S1718/J6S1718B

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

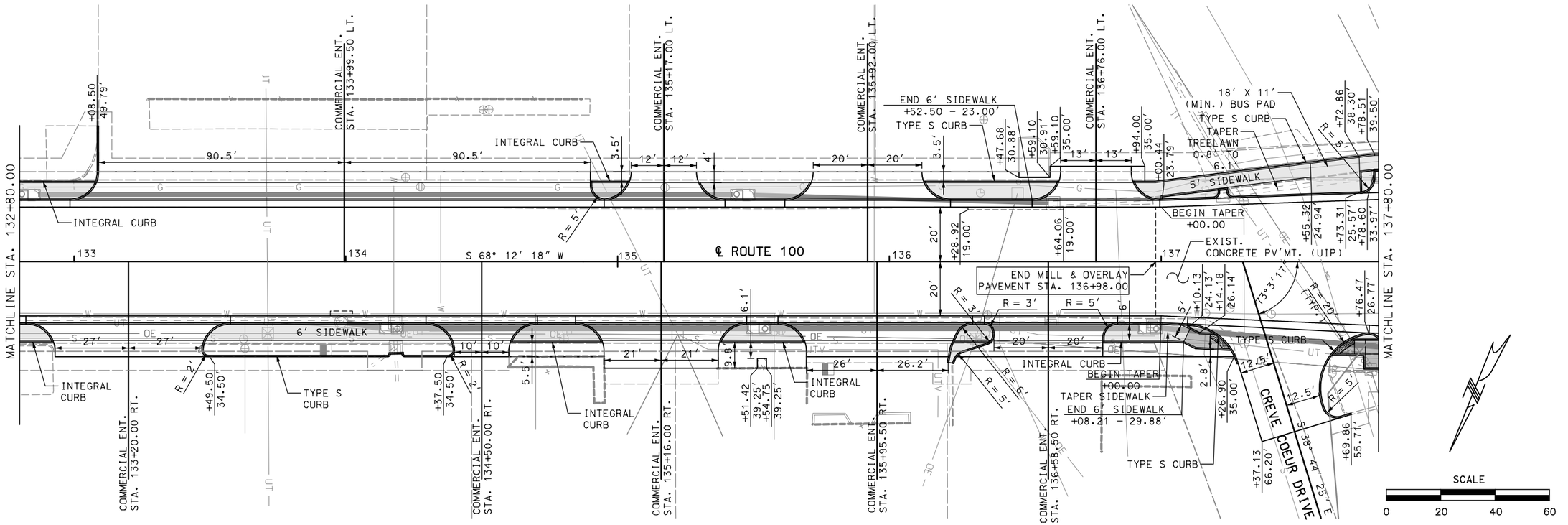
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

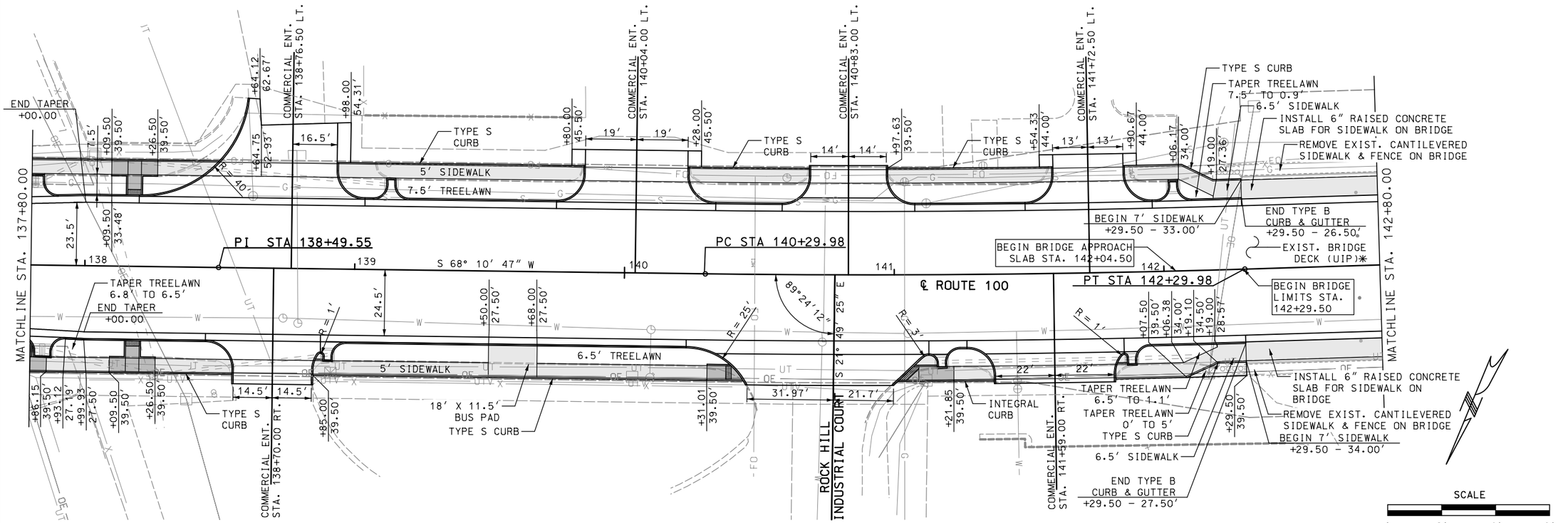
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 10 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	166
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REV.

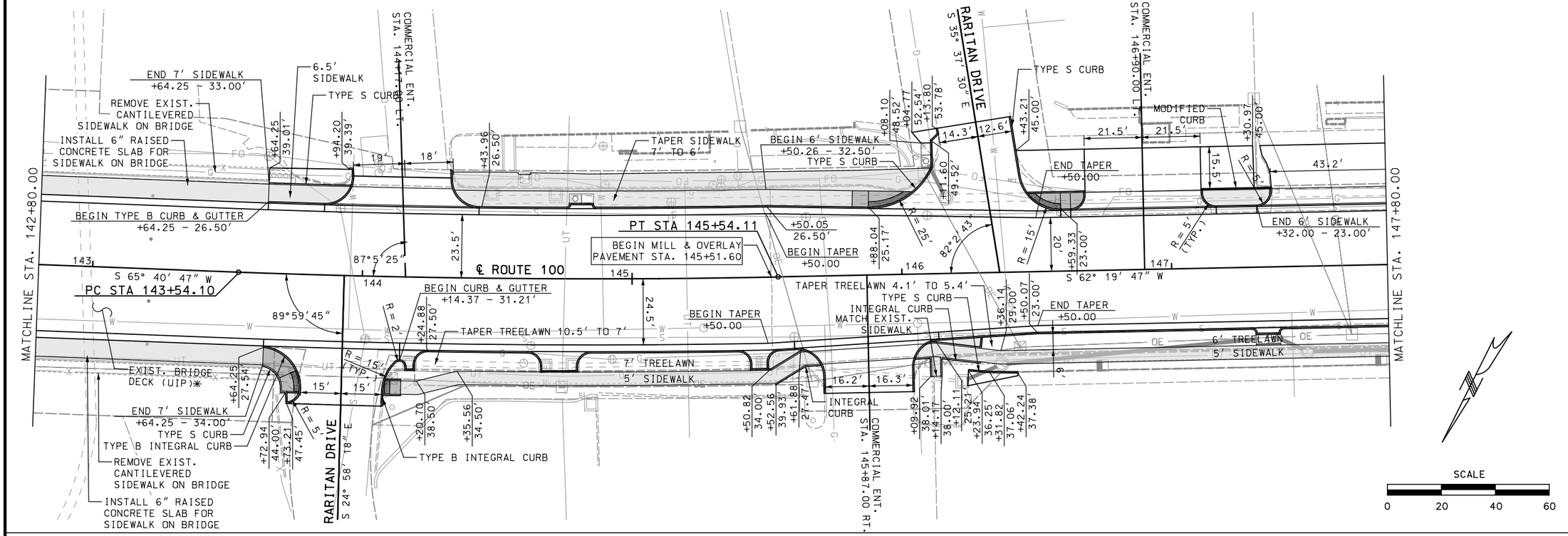
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

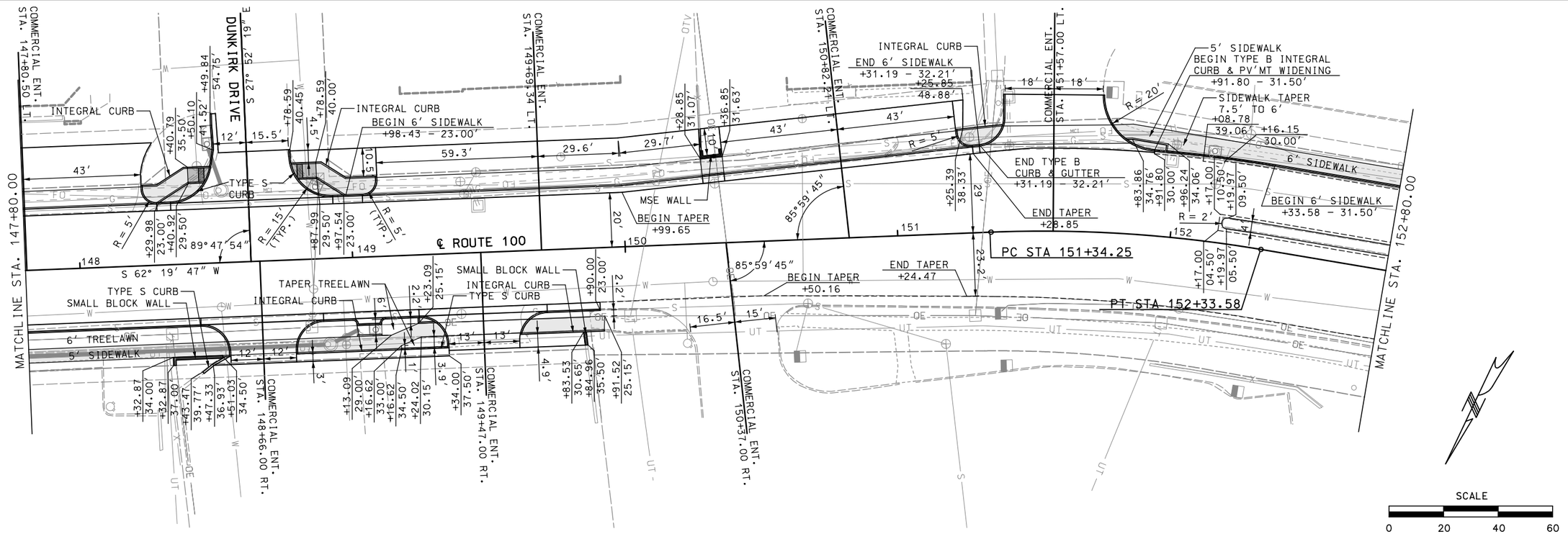
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CONSTRUCTION DETAILS
ROUTE 100
SHEET 11 OF 25

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DATE PREPARED
3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	167

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DATE	DESCRIPTION
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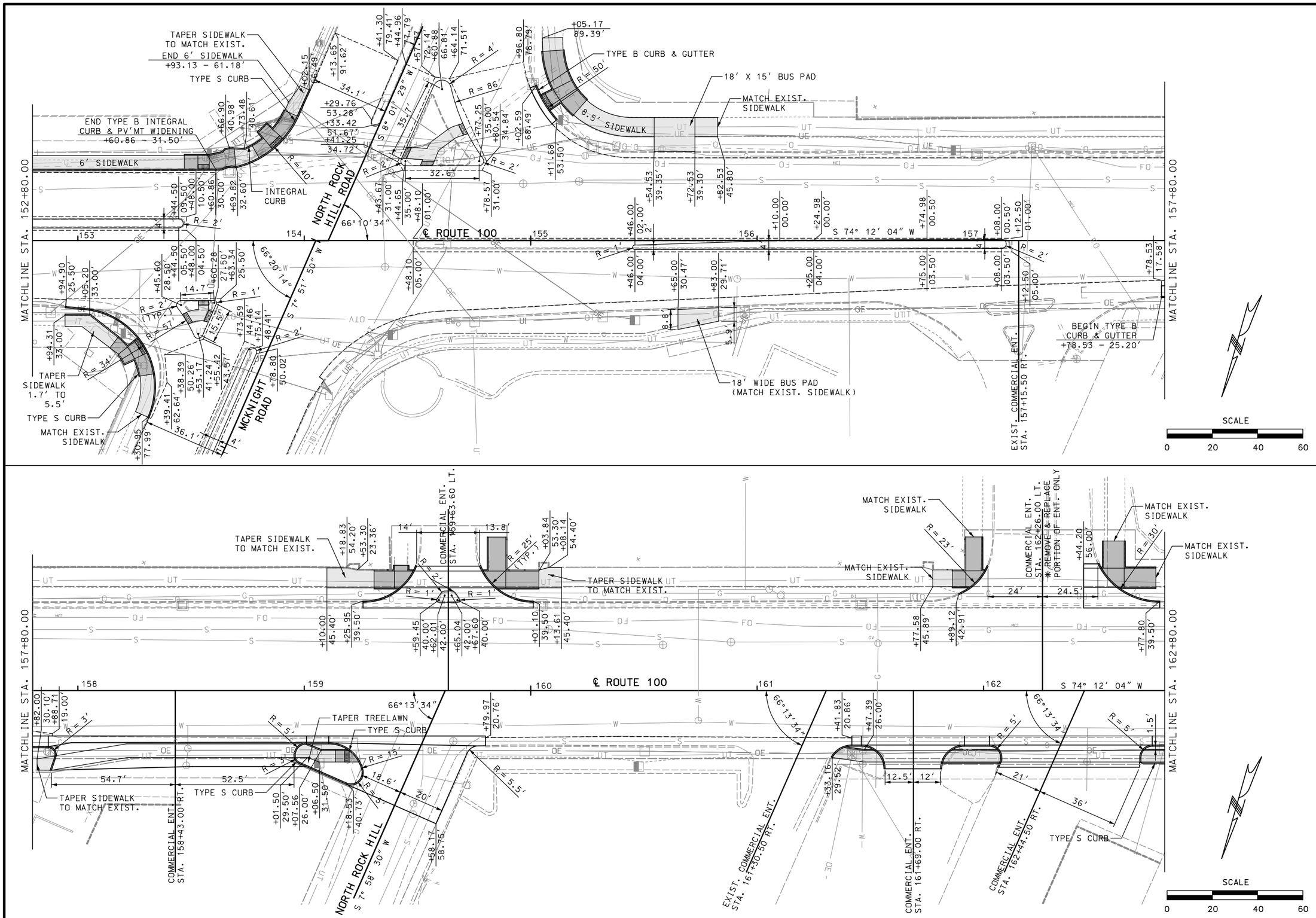
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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REV.



DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	168
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

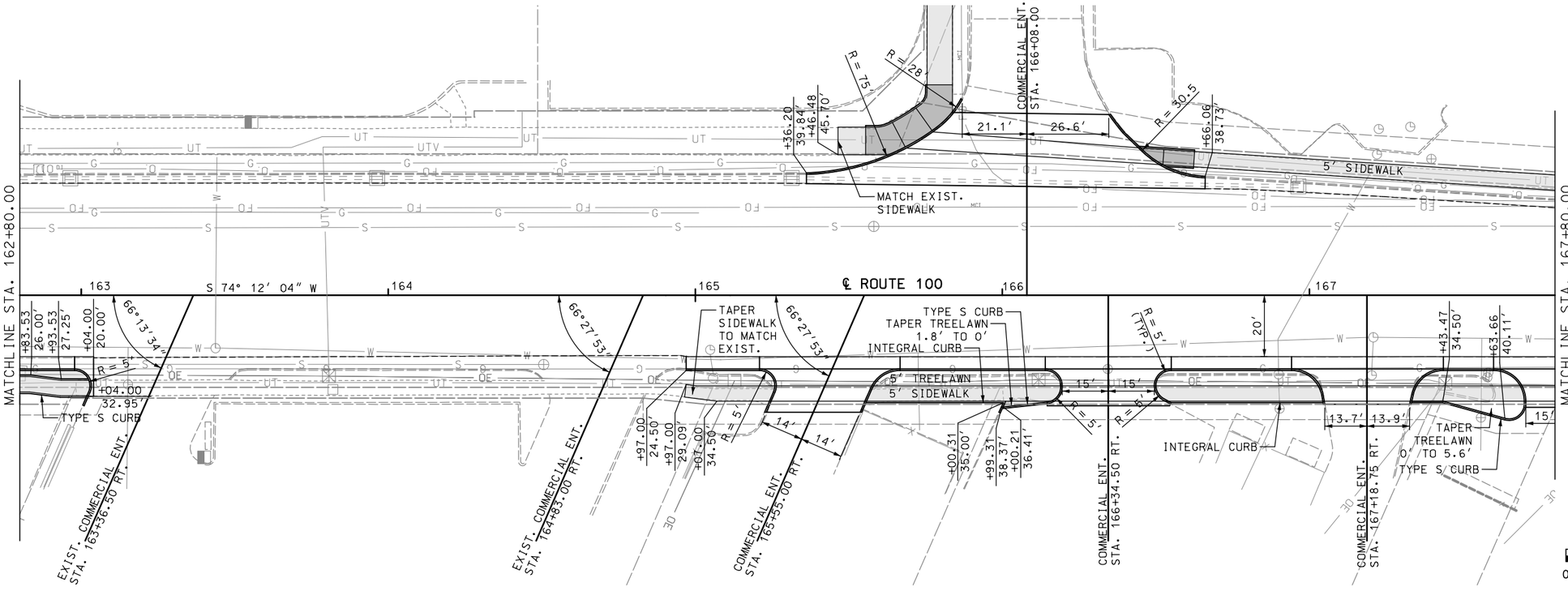
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

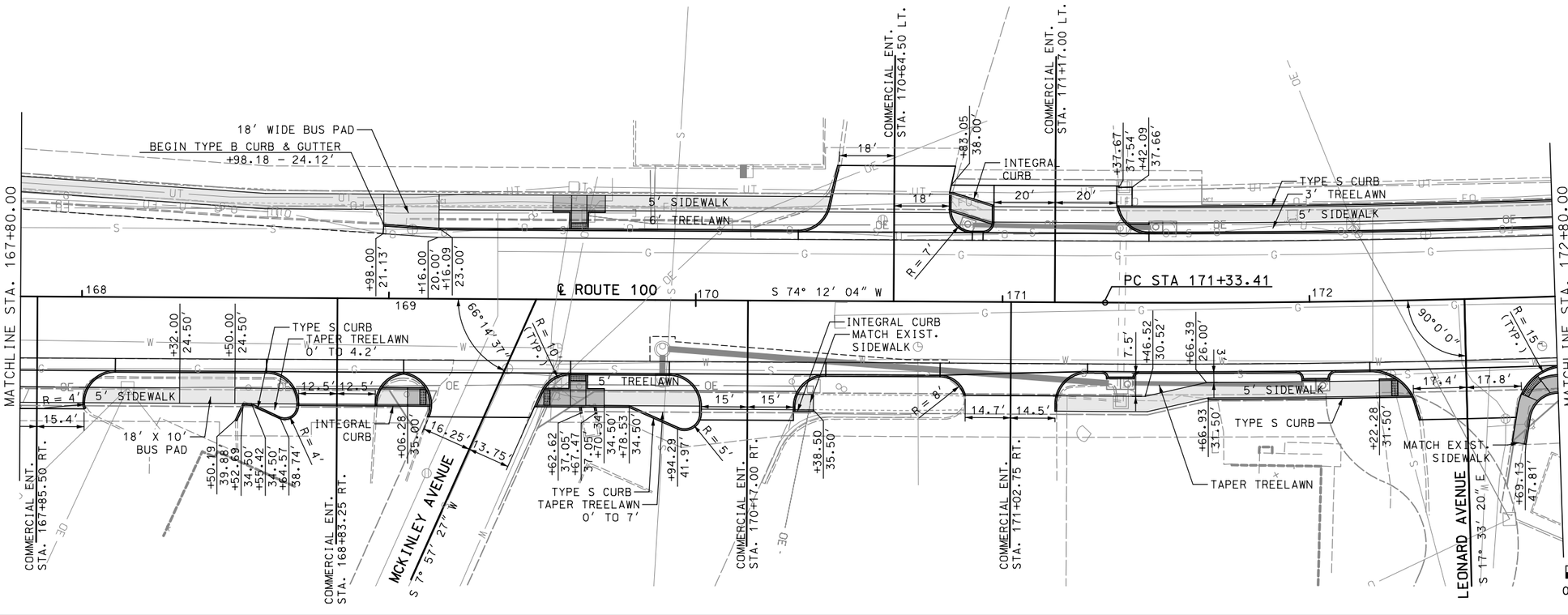
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 13 OF 25

REV.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 169
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION	REV.
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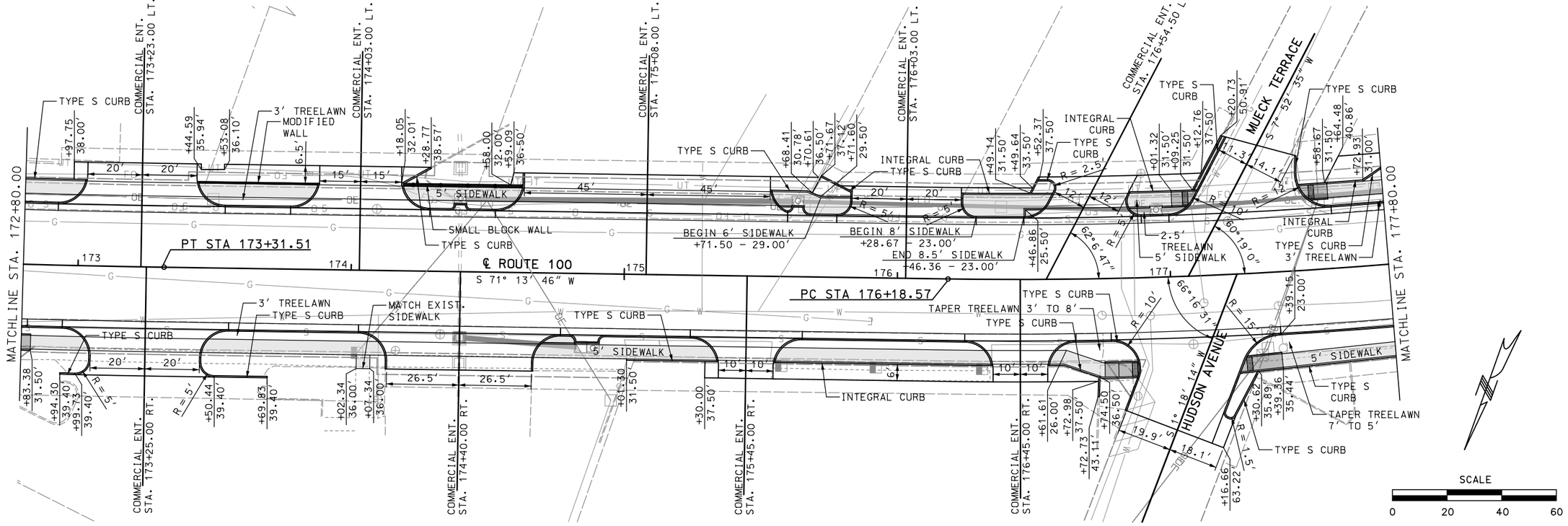
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

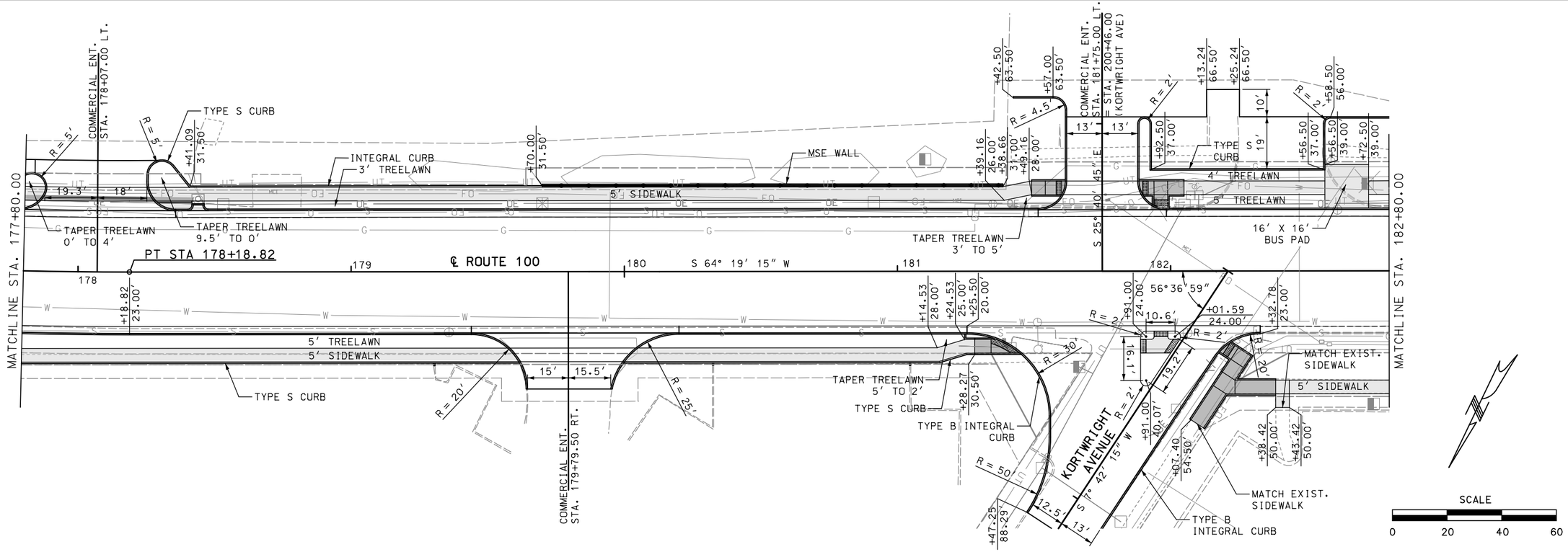
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 14 OF 25

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 170
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
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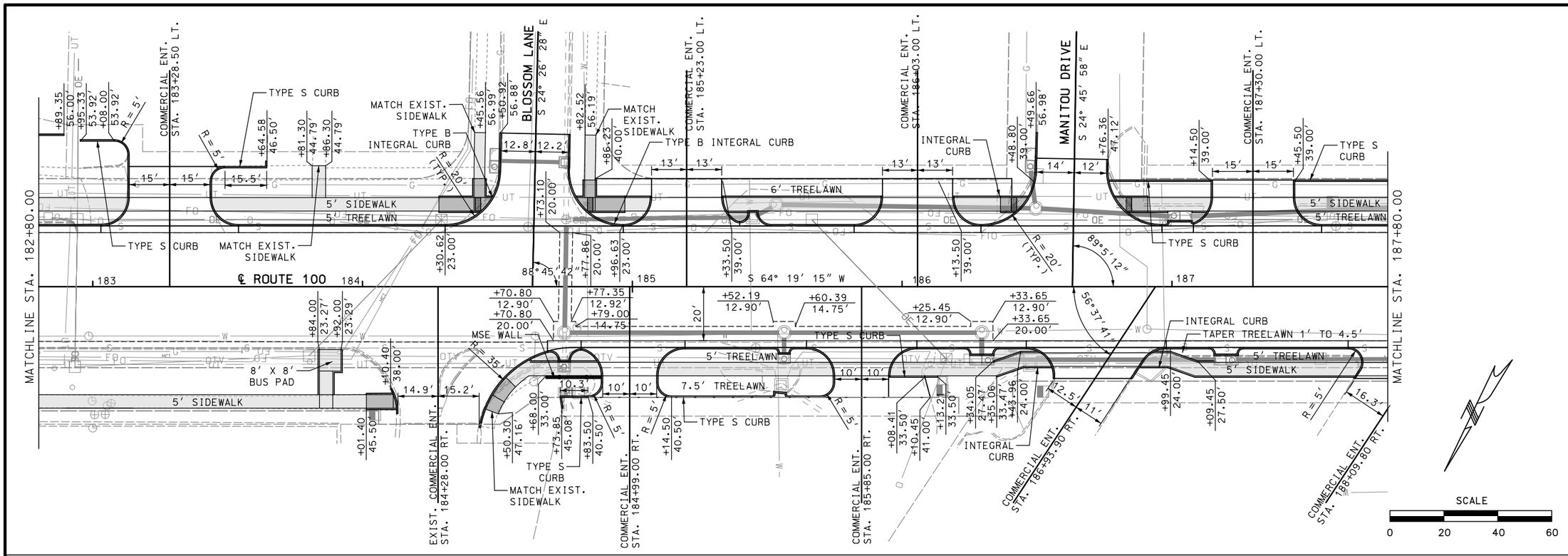
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

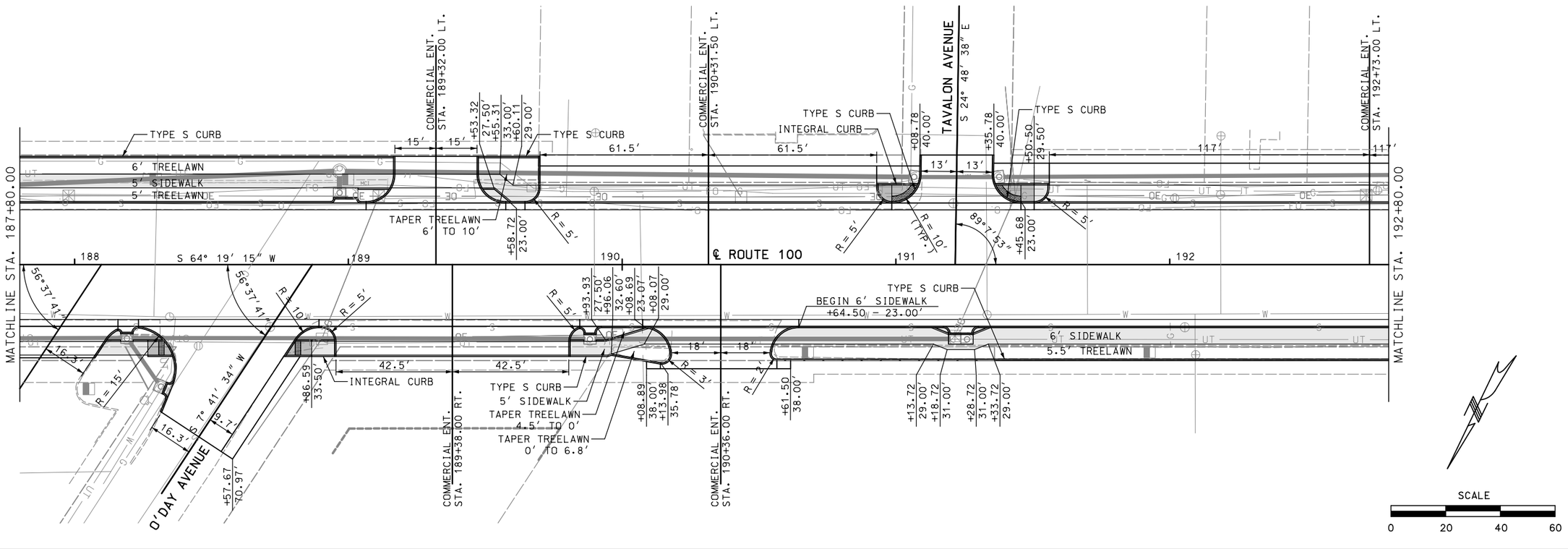
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 15 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	171
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

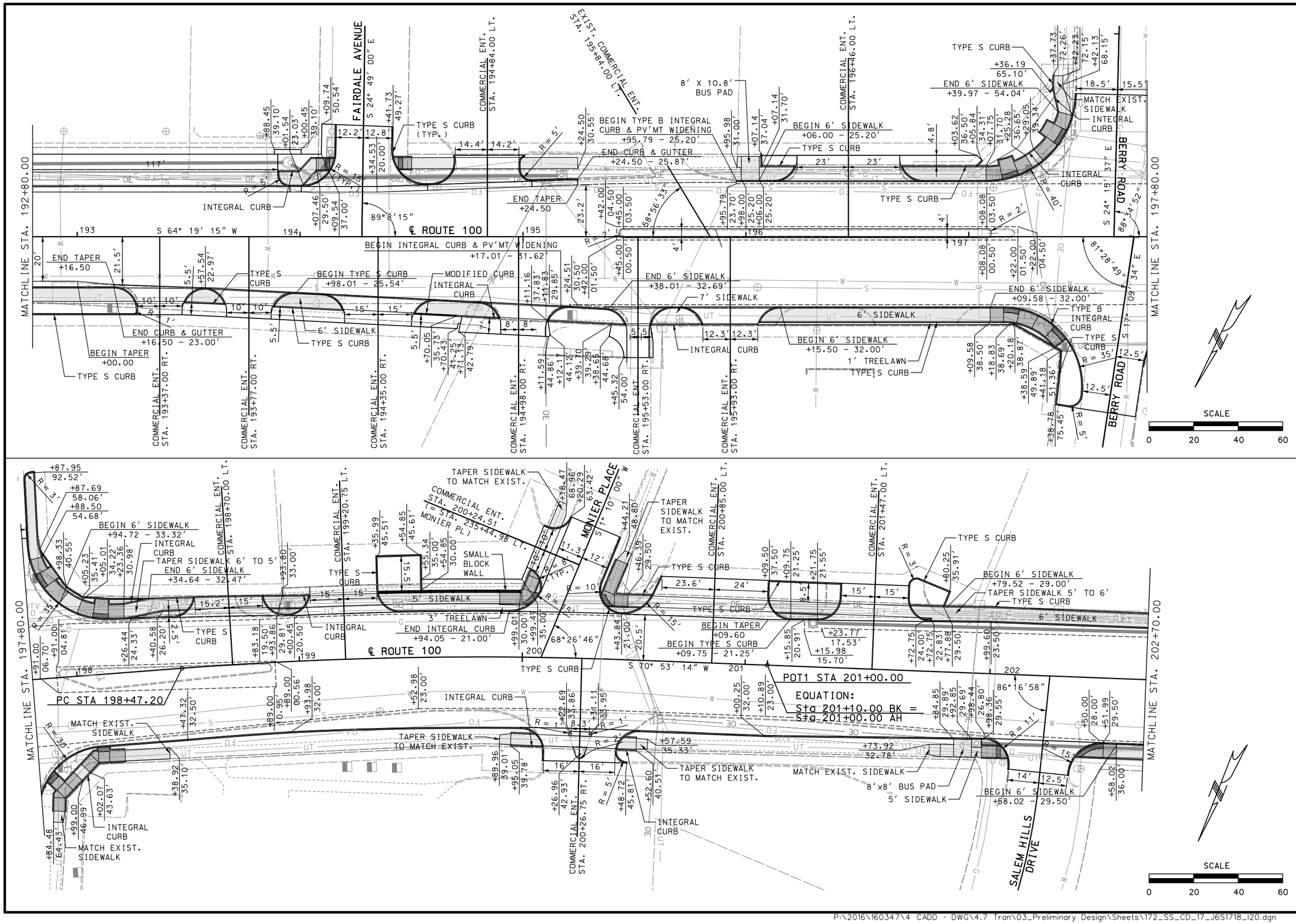
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SPECIAL SHEET
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CONSTRUCTION DETAILS
.
ROUTE 100
.
SHEET 16 OF 25

REV.

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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 172
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

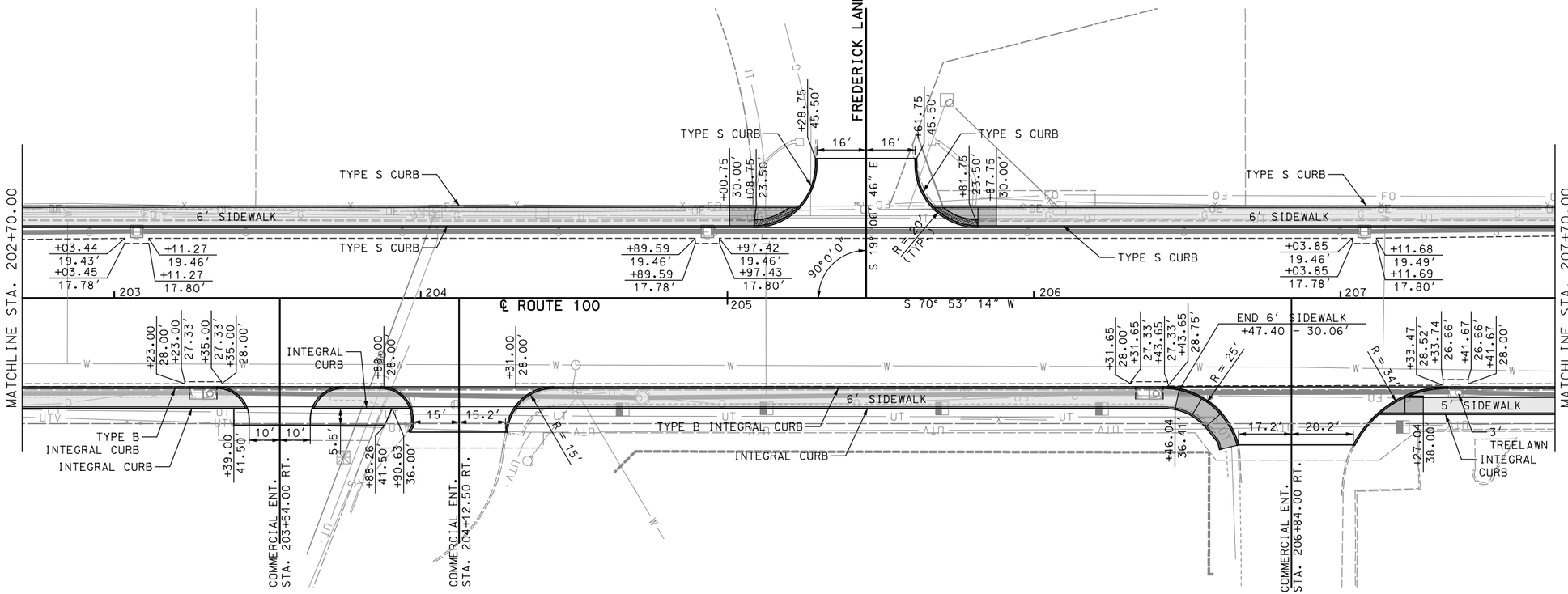
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

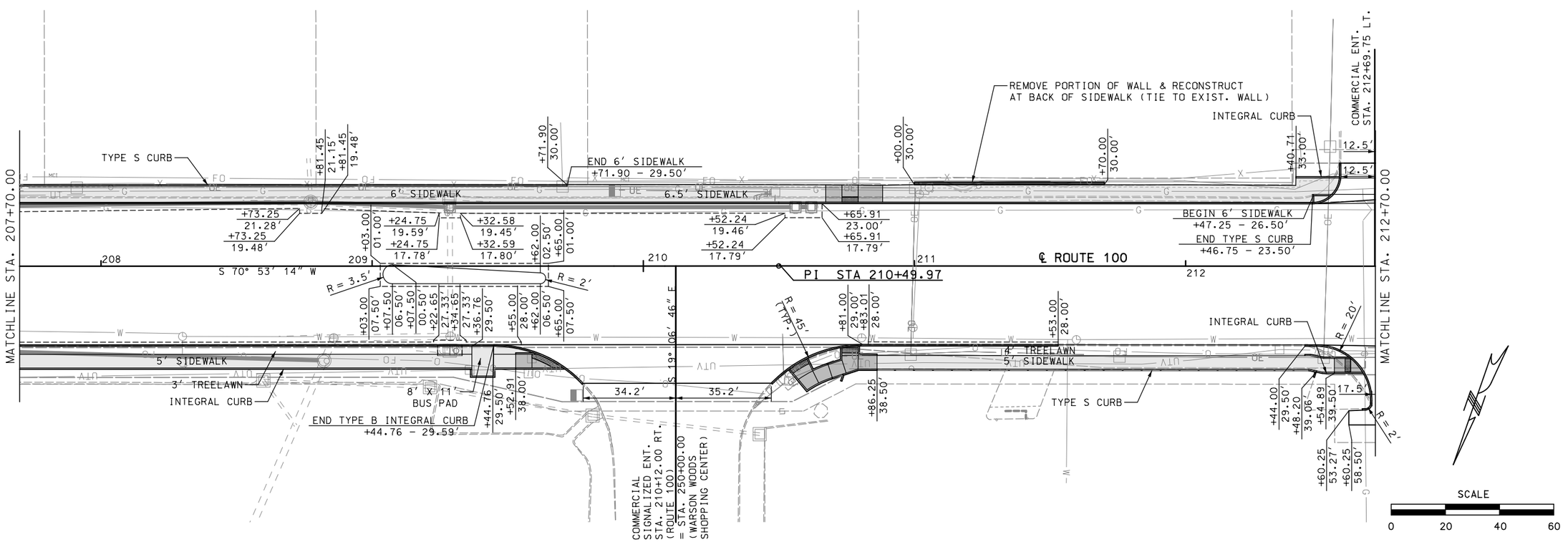
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 17 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	173
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

REV.

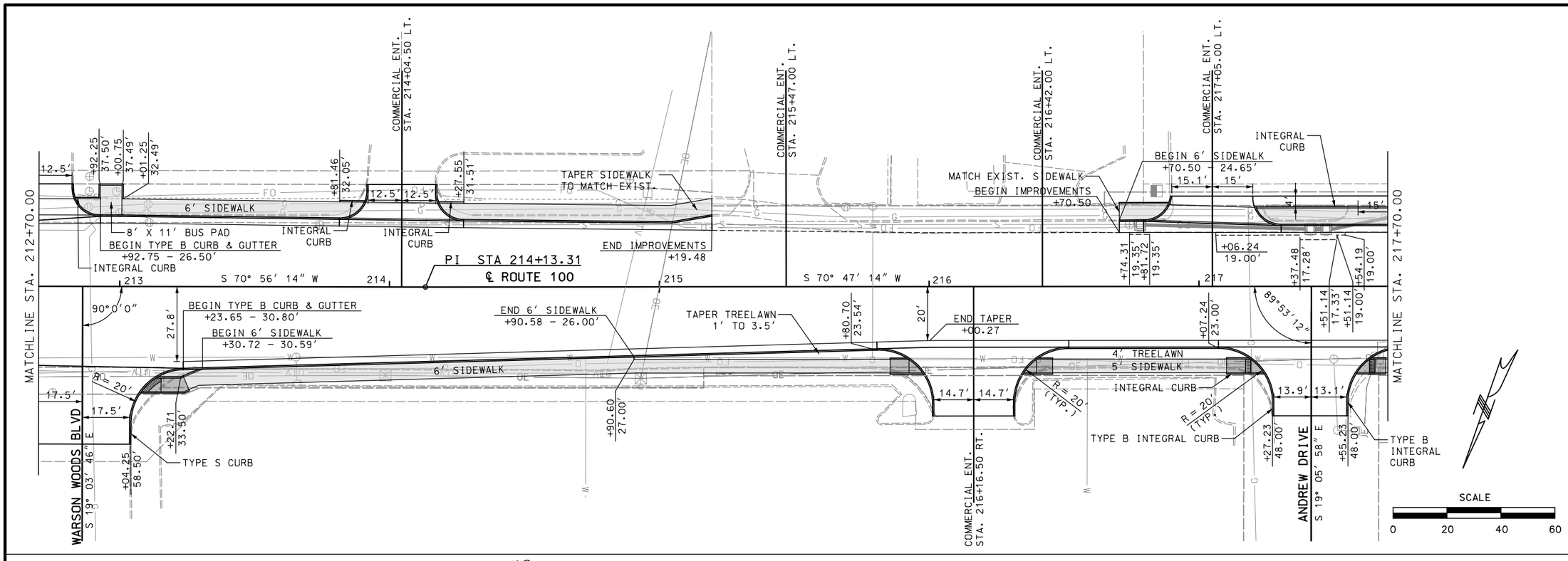
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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SPECIAL SHEET
.
CONSTRUCTION DETAILS
.
ROUTE 100
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SHEET 18 OF 25

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	174
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

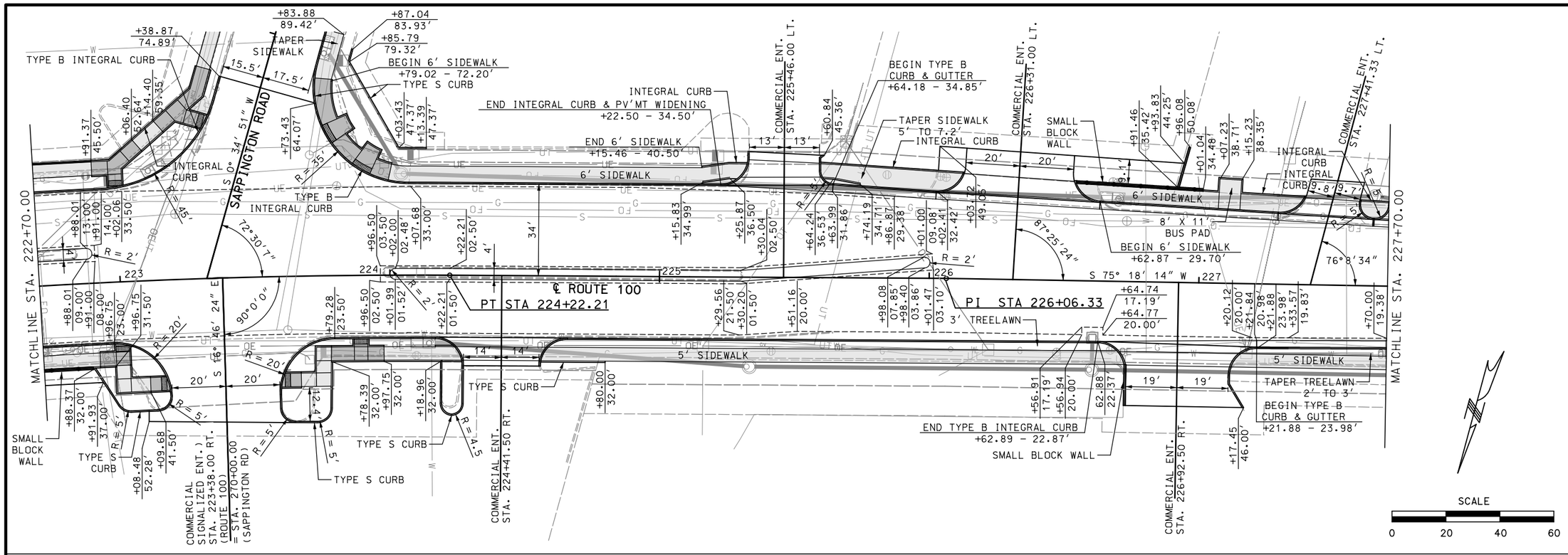
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

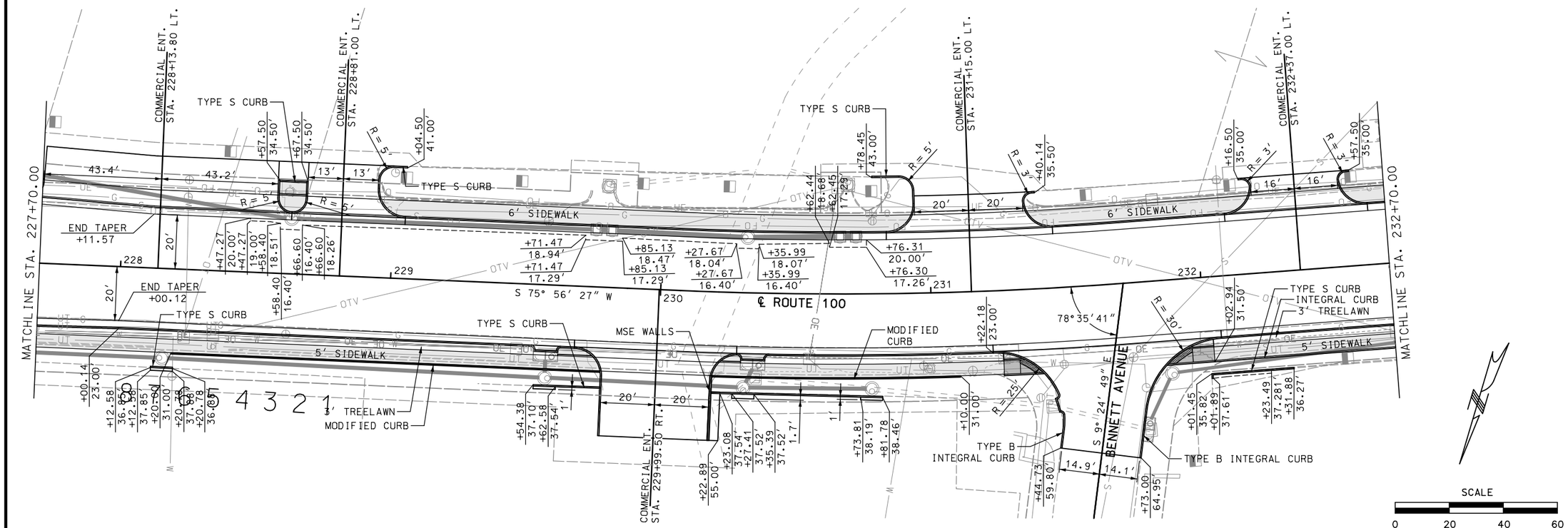
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SPECIAL SHEET
CONSTRUCTION DETAILS
ROUTE 100
SHEET 19 OF 25

REV.

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	175
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE | REV.

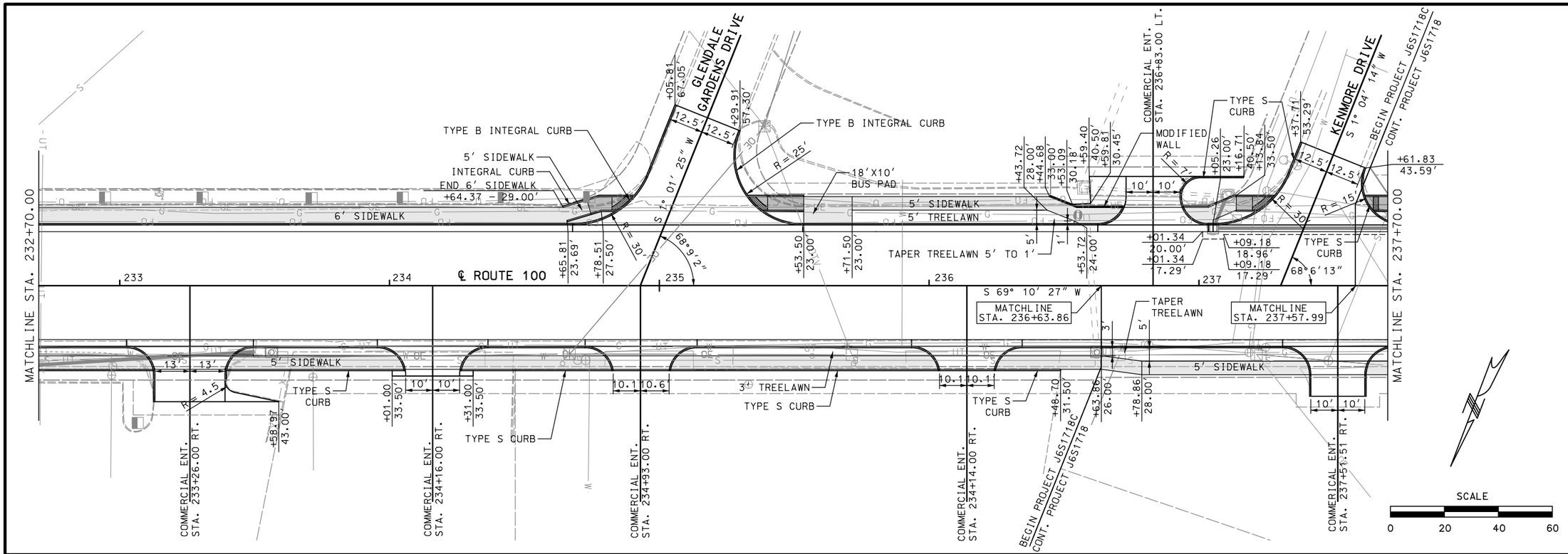
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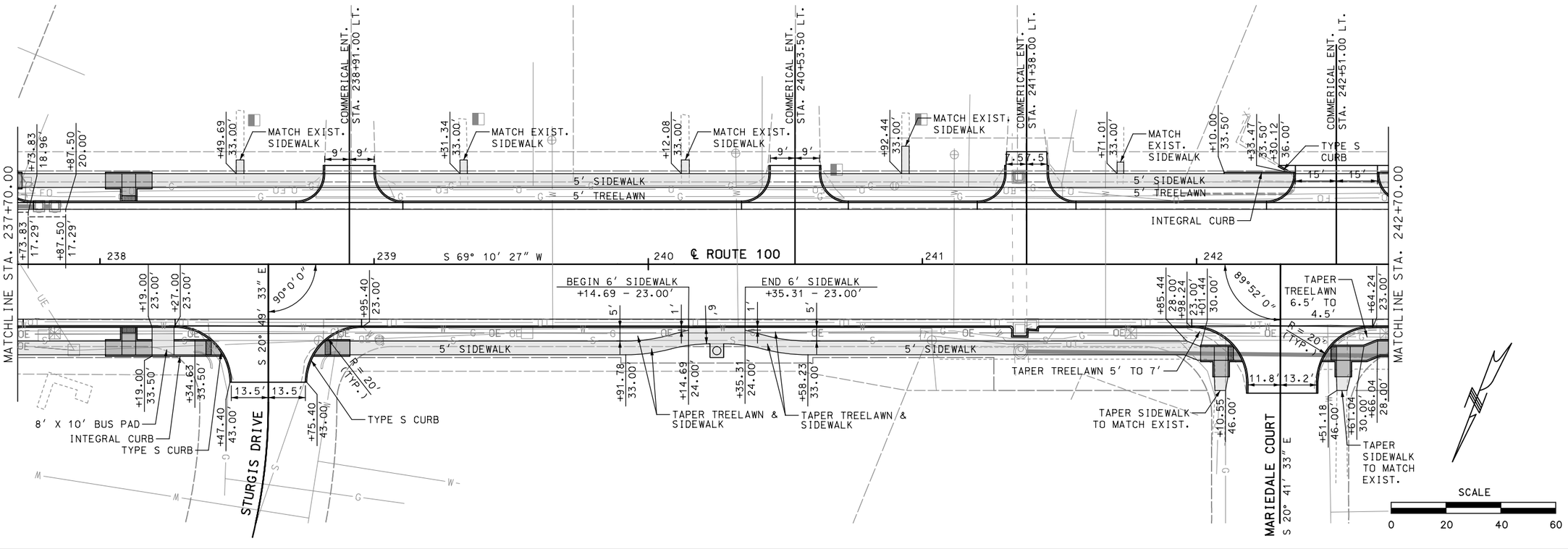
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CONSTRUCTION DETAILS
ROUTE 100
SHEET 20 OF 25

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DATE PREPARED 3/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	176

COUNTY: ST. LOUIS

JOB NO.: J6S1718/J6S1718C

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DATE	DESCRIPTION
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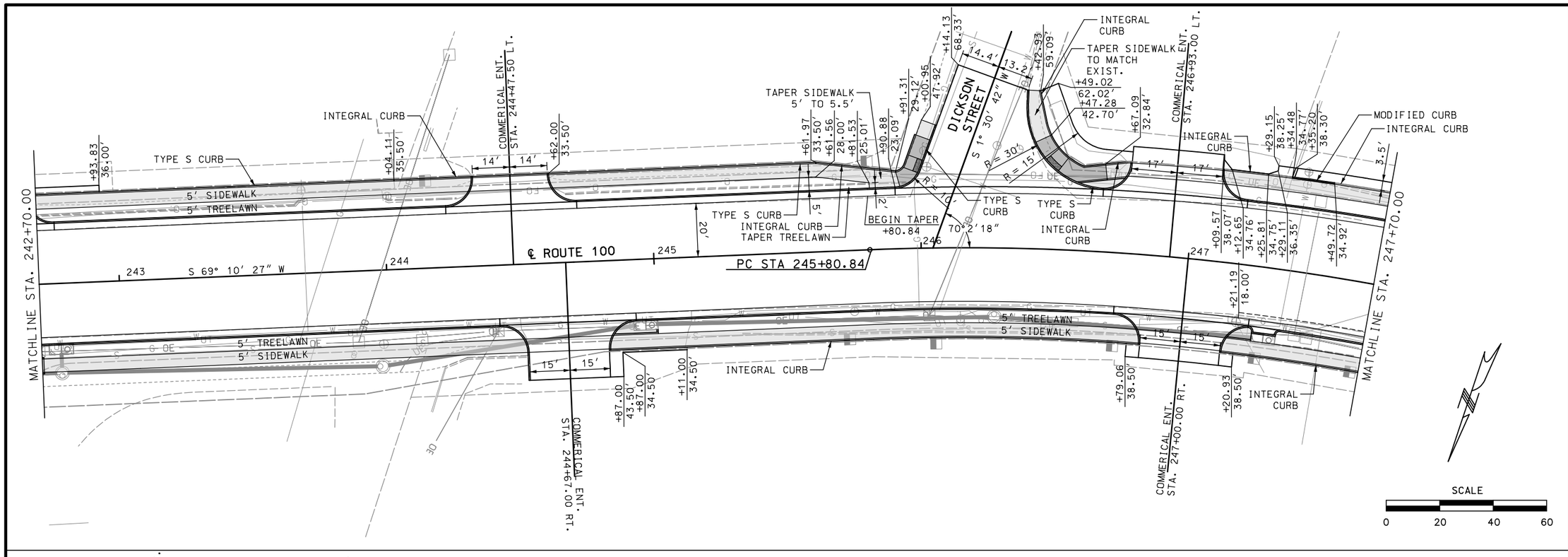
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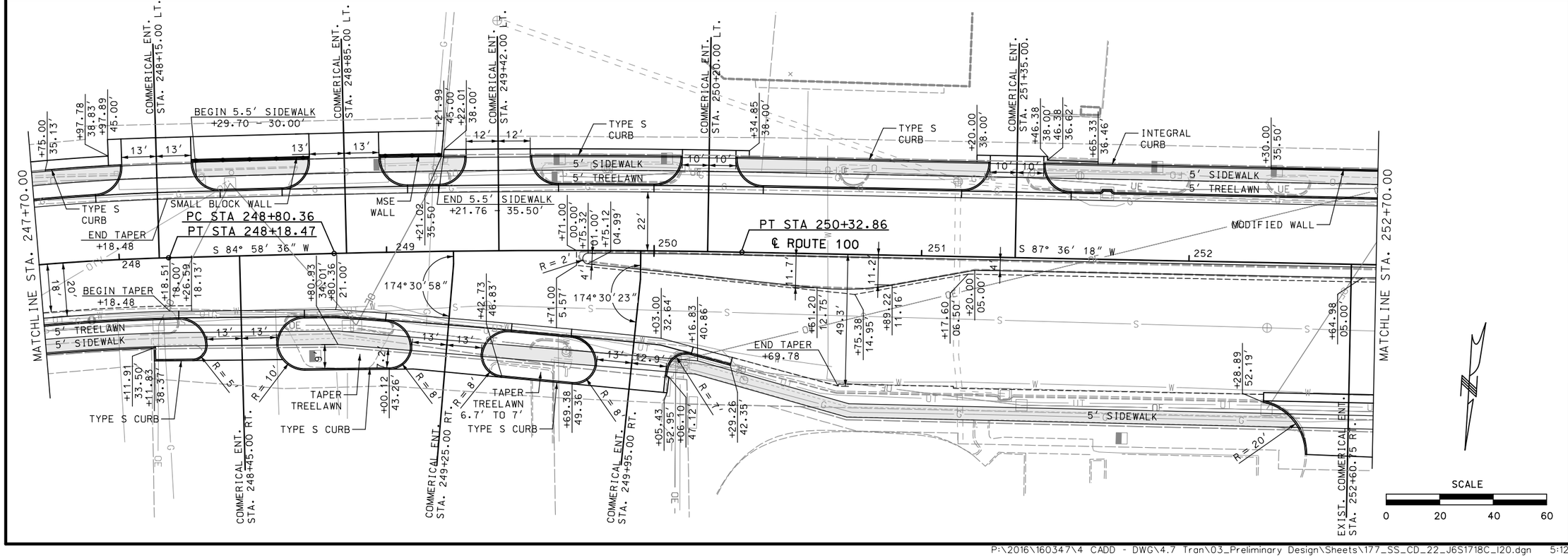
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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 177
COUNTY ST. LOUIS
JOB NO. J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

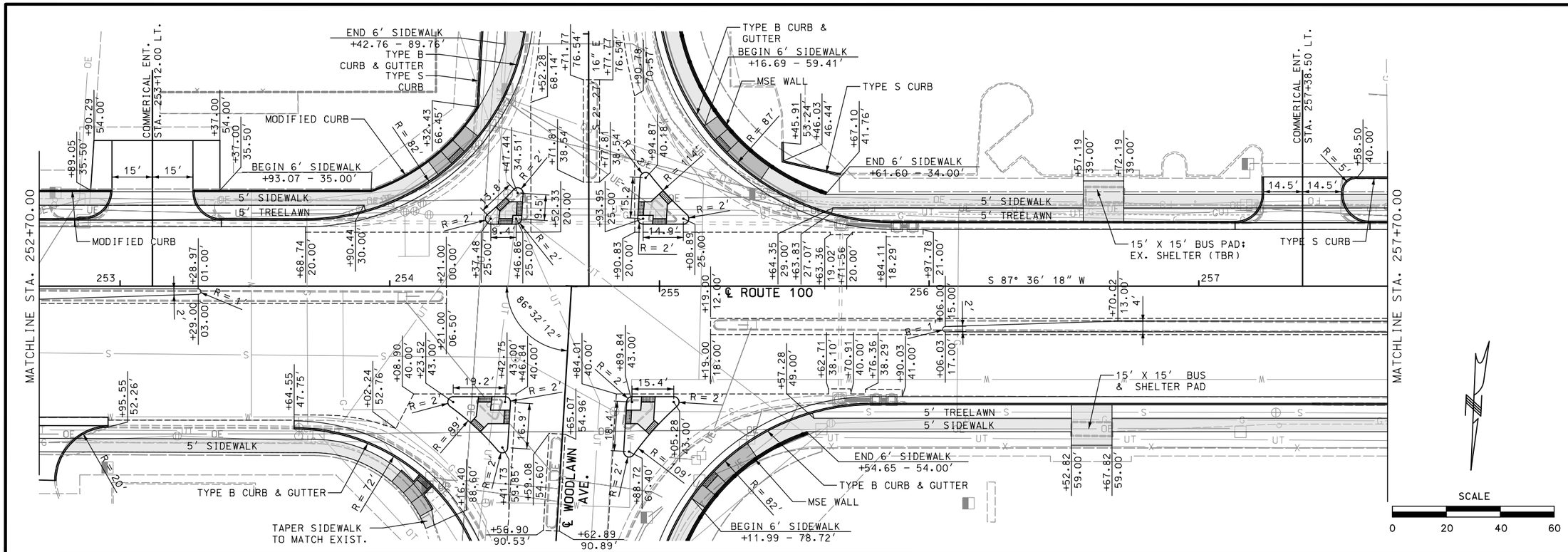
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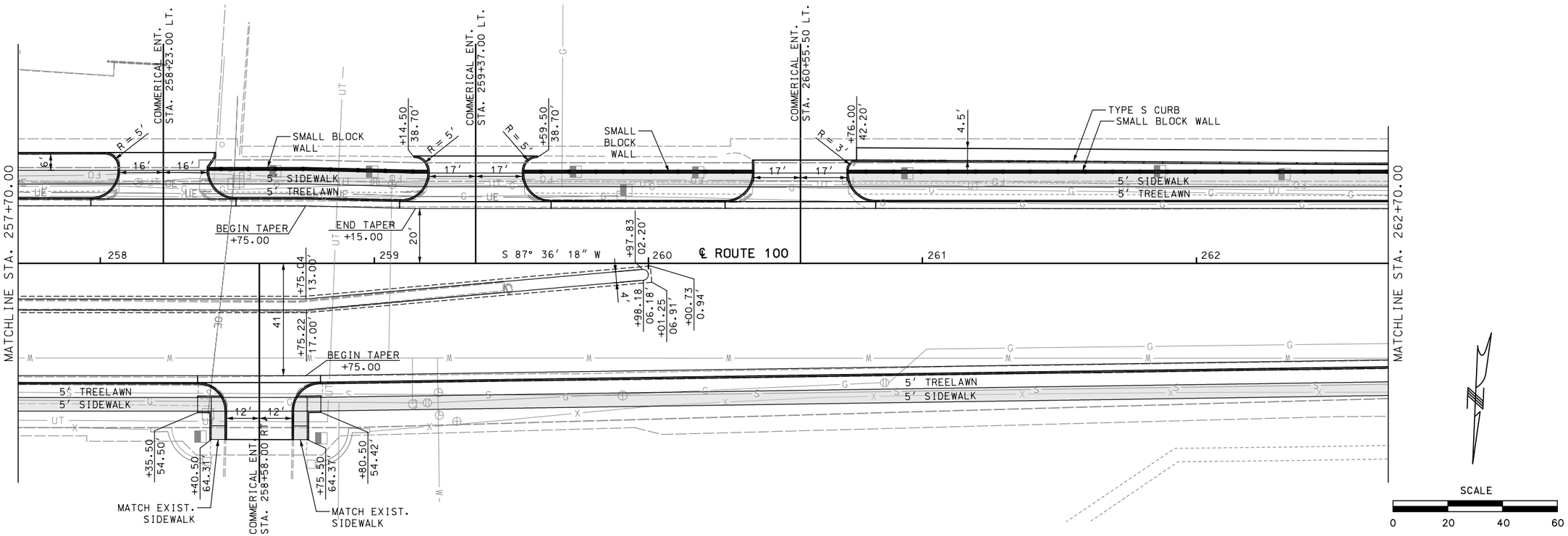
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SPECIAL SHEET
CONSTRUCTION DETAILS
ROUTE 100
SHEET 22 OF 25

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DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	178
COUNTY	ST. LOUIS
JOB NO.	J6S1718C
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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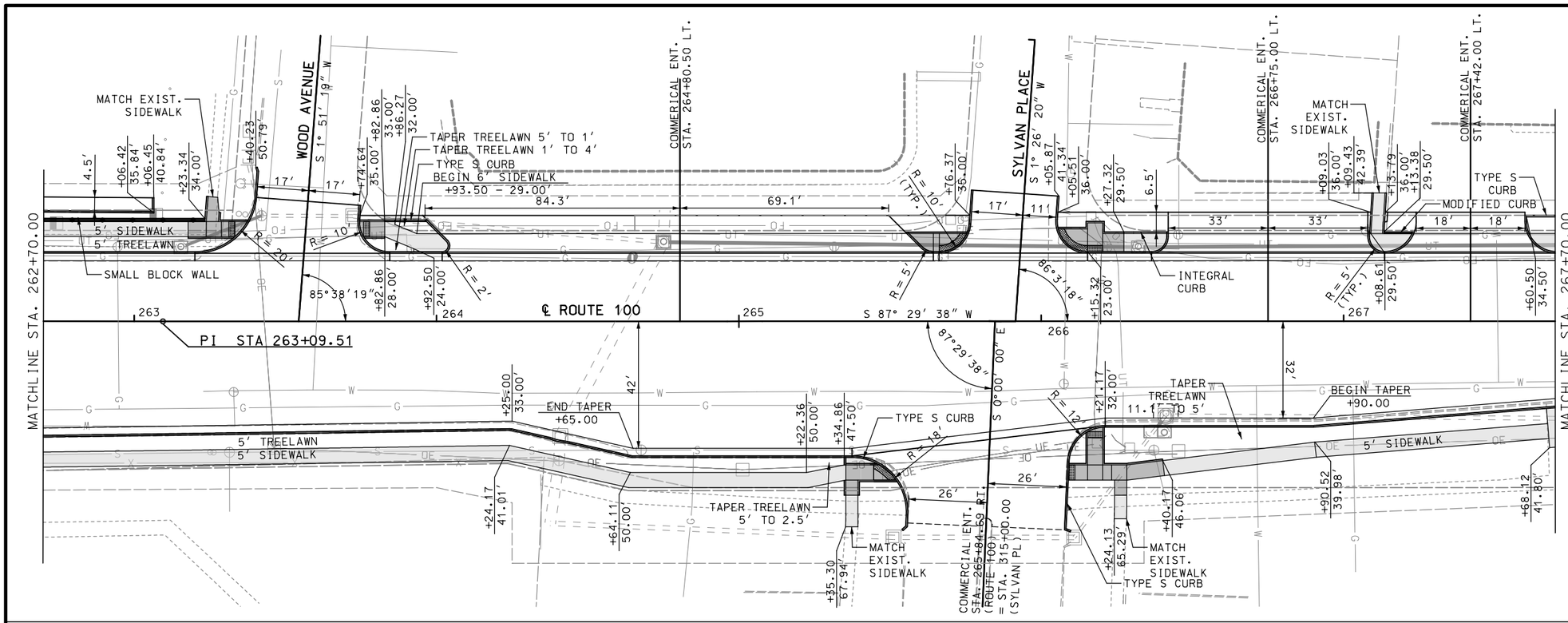
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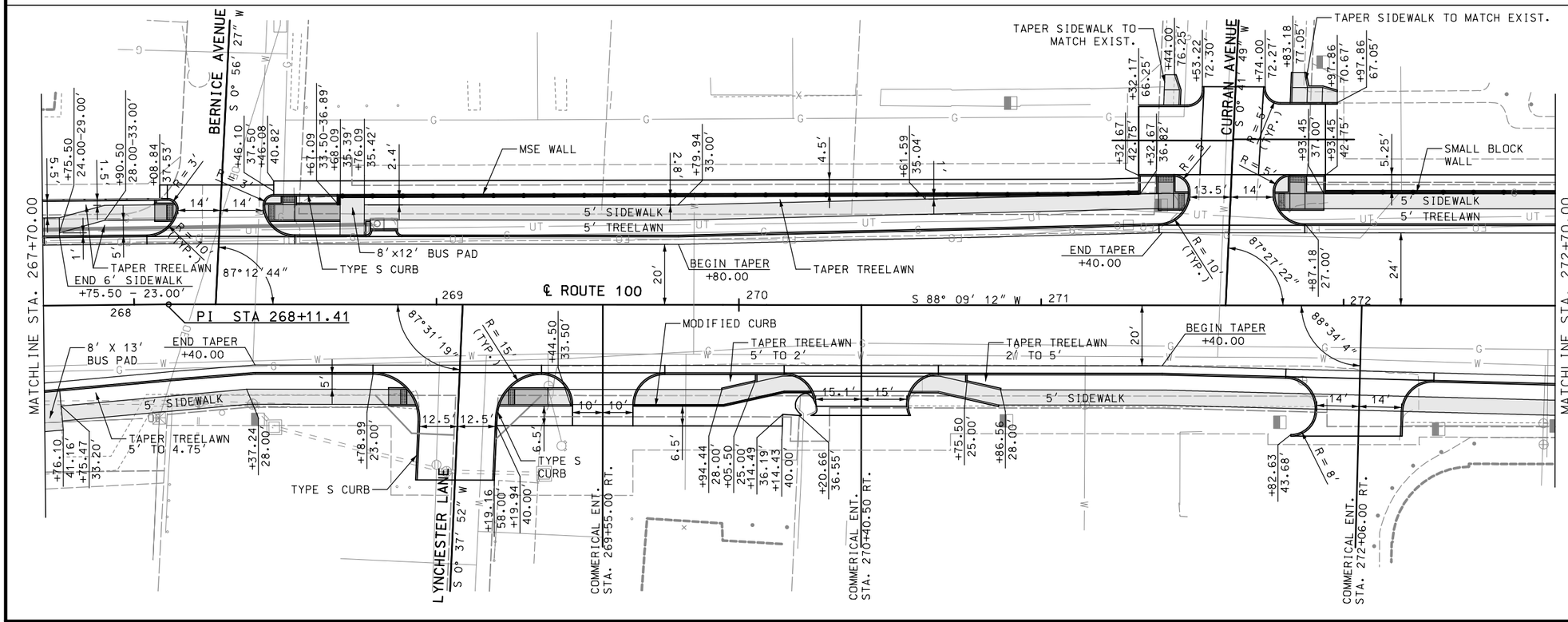
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ROUTE 100
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DATE PREPARED 3/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 179
COUNTY ST. LOUIS
JOB NO. J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

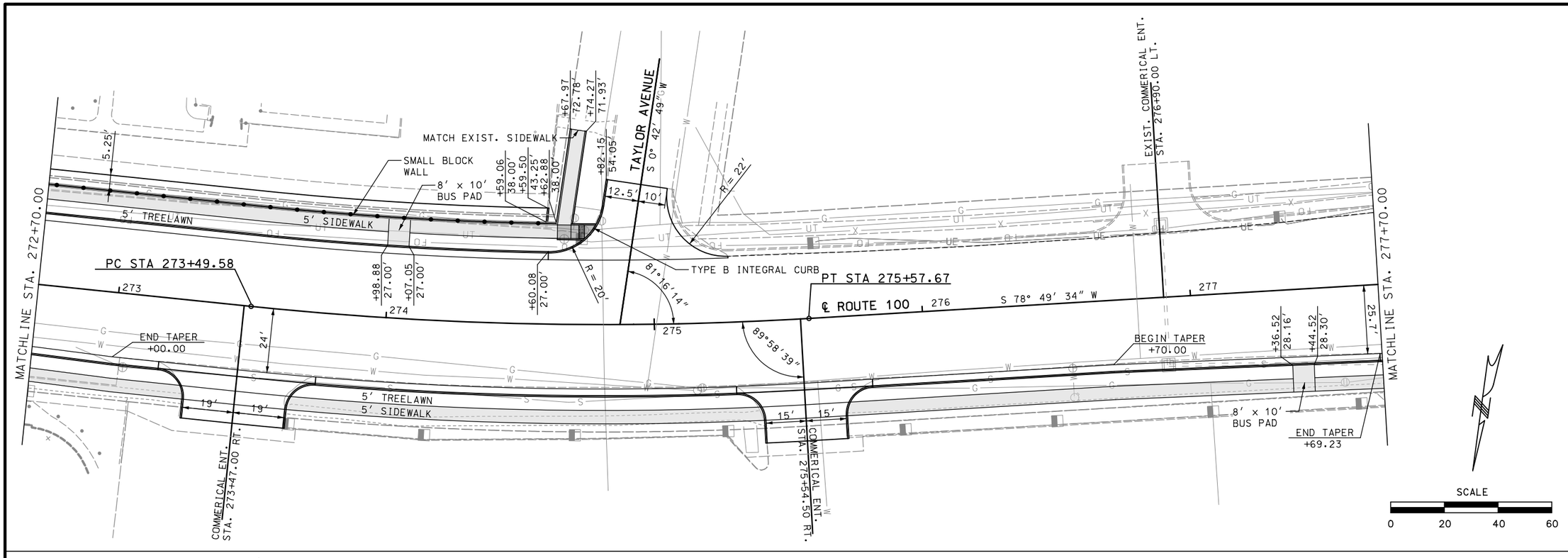
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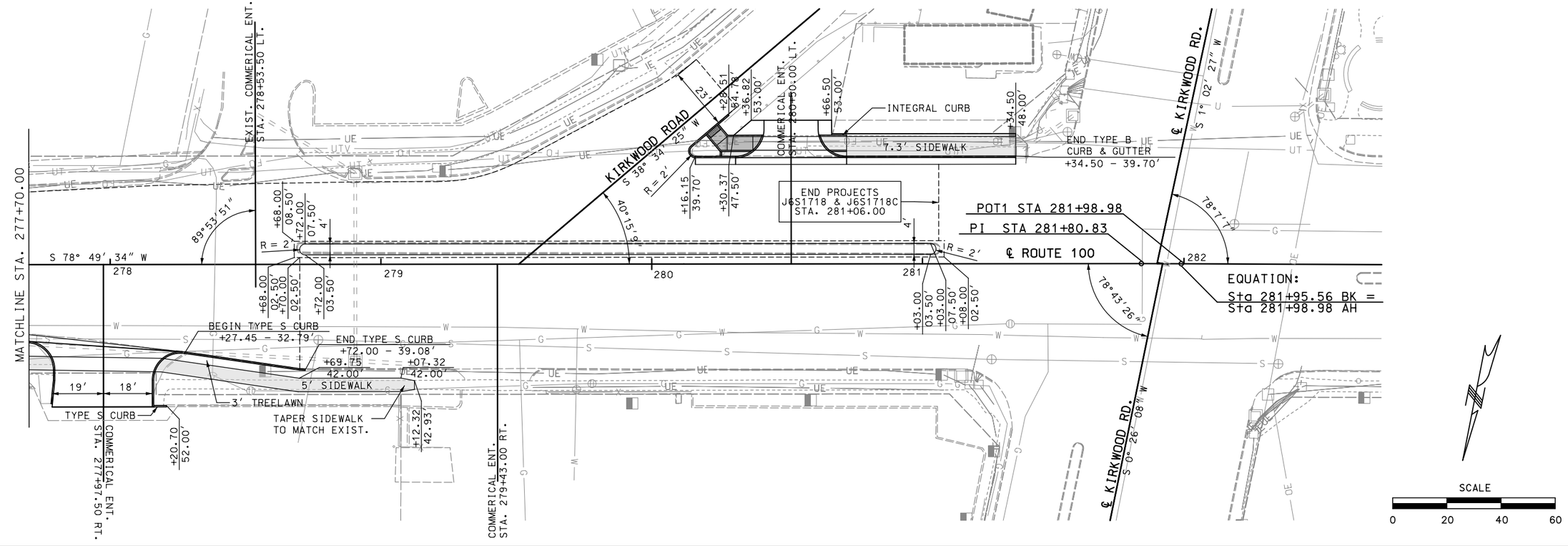
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 24 OF 25





DATE PREPARED	3/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	180
COUNTY	ST. LOUIS
JOB NO.	J6S1718C
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 25 OF 25

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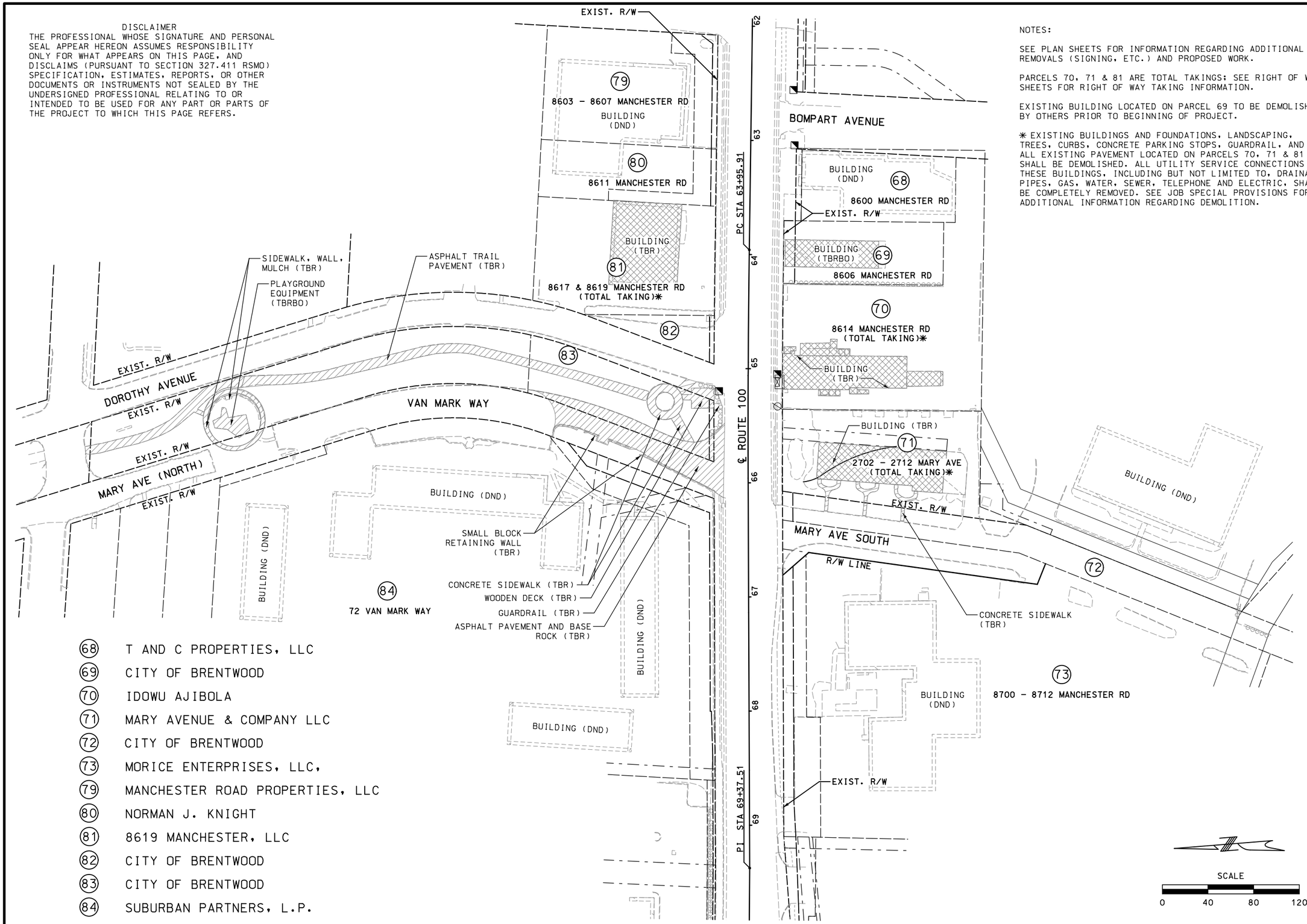
NOTES:

SEE PLAN SHEETS FOR INFORMATION REGARDING ADDITIONAL REMOVALS (SIGNING, ETC.) AND PROPOSED WORK.

PARCELS 70, 71 & 81 ARE TOTAL TAKINGS; SEE RIGHT OF WAY SHEETS FOR RIGHT OF WAY TAKING INFORMATION.

EXISTING BUILDING LOCATED ON PARCEL 69 TO BE DEMOLISHED BY OTHERS PRIOR TO BEGINNING OF PROJECT.

✱ EXISTING BUILDINGS AND FOUNDATIONS, LANDSCAPING, TREES, CURBS, CONCRETE PARKING STOPS, GUARDRAIL, AND ALL EXISTING PAVEMENT LOCATED ON PARCELS 70, 71 & 81 SHALL BE DEMOLISHED. ALL UTILITY SERVICE CONNECTIONS TO THESE BUILDINGS, INCLUDING BUT NOT LIMITED TO, DRAINAGE PIPES, GAS, WATER, SEWER, TELEPHONE AND ELECTRIC, SHALL BE COMPLETELY REMOVED. SEE JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION.



(68) T AND C PROPERTIES, LLC
(69) CITY OF BRENTWOOD
(70) IDOWU AJIBOLA
(71) MARY AVENUE & COMPANY LLC
(72) CITY OF BRENTWOOD
(73) MORICE ENTERPRISES, LLC,
(79) MANCHESTER ROAD PROPERTIES, LLC
(80) NORMAN J. KNIGHT
(81) 8619 MANCHESTER, LLC
(82) CITY OF BRENTWOOD
(83) CITY OF BRENTWOOD
(84) SUBURBAN PARTNERS, L.P.

DATE PREPARED 3/31/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 181
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

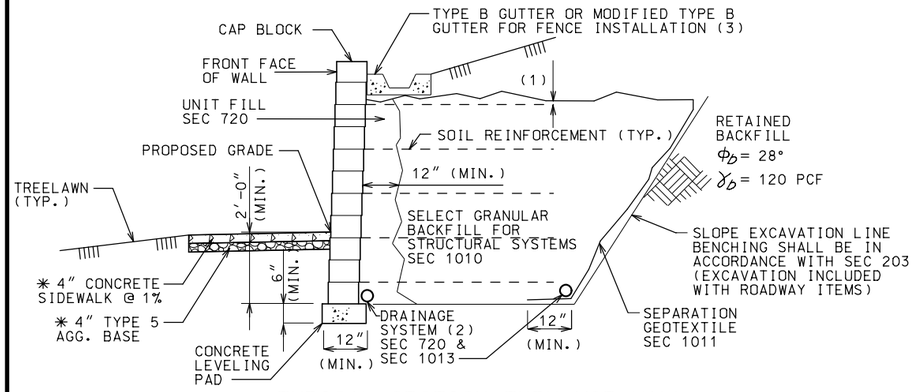
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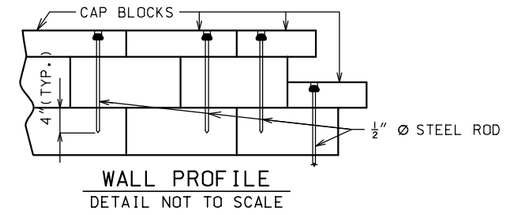
SPECIAL SHEET . DEMOLITION PLAN . ROUTE 100 . SHEET 1 OF 1

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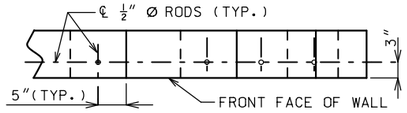
TYPICAL SECTION THRU MSE WALL (SMALL BLOCK WALL SYSTEM)

DETAIL NOT TO SCALE



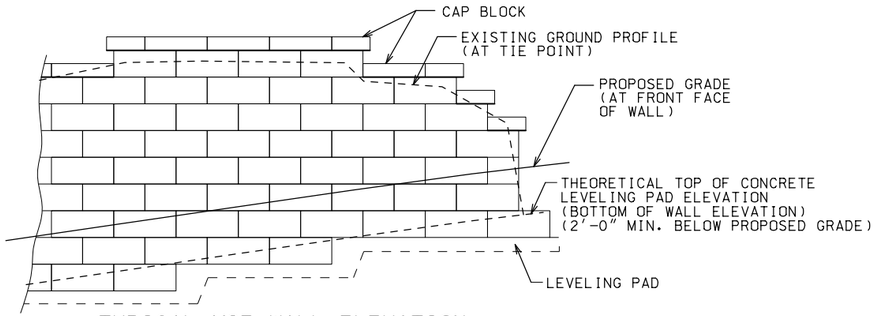
WALL PROFILE

DETAIL NOT TO SCALE



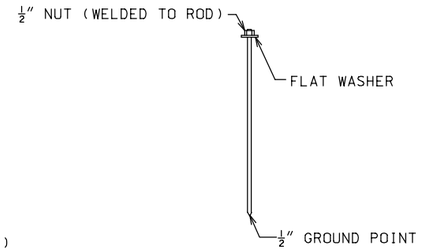
WALL PLAN

DETAIL NOT TO SCALE



TYPICAL MSE WALL ELEVATION (SMALL BLOCK WALL SYSTEM)

(LOOKING AT FRONT FACE OF WALL)
DETAIL NOT TO SCALE



DETAILS OF ½" THREADED ROD OR REINFORCING ROD

DETAIL NOT TO SCALE

TYPICAL SECTION NOTES:

(1) TOPMOST LAYER FOR REINFORCEMENT SHALL BE FULLY COVERED WITH SELECT GRANULAR BACKFILL FOR STRUCTURAL SYSTEMS, AS APPROVED BY THE WALL MANUFACTURER, BEFORE PLACEMENT OF THE SEPARATION GEOTEXTILE.

(2) MINIMUM 6" DIAMETER PERFORATED PVC OR PE PIPE.

MANUFACTURER SHALL SHOW DRAIN DETAILS ON DESIGN PLANS TO BE SUBMITTED AS SHOWN ON MoDOT MSE WALL PLANS AND/OR ROADWAY PLANS.

CONTRACTOR SHALL MODIFY THE DRAIN DETAILS AS SHOWN IF IT WILL IMPROVE FLOW AS MAY BE THE CASE FOR STEPPED LEVELING PAD AND FOR AN UNEVEN GROUND LINE (APPROVAL OF THE ENGINEER REQUIRED).

(3) SEE STD PLAN 609.00 FOR GUTTER DETAILS AND STD PLAN 607.11 FOR MODIFIED GUTTER AT LOCATIONS WHERE FENCE IS REQUIRED.

ELEVATION VIEW NOTES:

WALL CONTRACTOR SHALL SHOW THE FOLLOWING ITEMS ON THE DESIGN DRAWINGS AND/OR ON THE FABRICATOR SHOP DRAWINGS:

(A) LEVELING PAD HORIZONTAL.

(B) LEVELING PAD LENGTH AND STEP ELEVATIONS SHALL BE BASED ON WALL MANUFACTURER'S RECOMMENDATION. TOP OF LEVELING PAD ELEVATIONS SHALL NOT BE HIGHER THAN THEORETICAL TOP OF LEVELING PAD ELEVATIONS SHOWN ON THESE PLANS.

THE CAP BLOCKS AND LEVELING PAD STEPS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. THE FINAL CONFIGURATION SHALL BE DETERMINED BY THE WALL ENGINEER.

ROD NOTES:

HOLES SHALL BE ⅝" ROUND AND EXTENDED 4" INTO THE THIRD LAYER OF BLOCKS, RECESSED 2" DEEP BY 1-½" ROUND.

RODS OR REINFORCING BARS SHALL BE SECURED BY AN APPROVED RESIN ANCHOR SYSTEM IN ACCORDANCE WITH SEC 1039.

RECESS HOLE SHALL BE BACKFILLED WITH NON-SHRINK CEMENT GROUT.

SEE PROCEEDING SHEETS FOR LOCATION SKETCH, PLAN & ELEVATIONS VIEWS FOR ALL WALLS.

WALLS NO. 1, 2, 8, 20, 23, 24, 39, 42, 43 & 47 SHALL BE MSE WALL SYSTEMS (SMALL BLOCK WALL SYSTEMS); SEE DETAILS ABOVE.

WALLS NO. 3 - 5, 13, 16, 18, 19, 22, 26, 28, 30, 32, 34, 38, 44 - 46, 50 SHALL BE SMALL BLOCK (NON-MSE) WALL SYSTEMS; SEE TYPICAL SECTIONS FOR DETAILS.

WALLS NO. 27 & 31 TO BE RECONSTRUCTED IN PLACE; WALL FOOTINGS TO BE LEFT IN PLACE. SEE JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

WALLS NO. 6, 7, 9 - 12, 14, 15, 17, 21, 25, 29, 33, 35 - 37, 40, 41, 48 & 49 SHALL BE MODIFIED CURB WALLS; SEE TYPICAL SECTIONS FOR DETAILS.

SEE RETAINING WALL DETAIL SHEET 2 FOR PEDESTRIAN FENCE DETAILS FOR PROJECTS J6S1718 & J6S1718C ONLY. SEE LANDSCAPING PLAN SHEETS FOR PEDESTRIAN FENCE DETAILS SPECIFIC FOR PROJECT J6S1718B. SEE PLAN VIEWS ON PROCEEDING RETAINING WALL DETAIL SHEETS FOR LOCATIONS WHERE PEDESTRIAN FENCING IS REQUIRED.

✳ SEE TYPICAL SECTIONS AND PLAN SHEETS FOR ADDITIONAL SIDEWALK INSTALLATION DETAILS.

ESTIMATED QUANTITIES

ITEM		TOTAL J6S1718	TOTAL J6S1718B	TOTAL J6S1718C
MECHANICALLY STABILIZED EARTH WALL SYSTEMS	SQFT	2278	1036	2118
SMALL BLOCK WALL (NON-MSE WALL)	SQFT	2740	429	1606
RECONSTRUCT WALL IN PLACE	SQFT	135		
MODIFIED CURB WALL	LINEAR FT	874	481	59
48" DECORATIVE PEDESTRIAN FENCE	LINEAR FT	736		503
PEDESTRIAN FENCE (J6S1718B ONLY)	LINEAR FT		684	
SIDEWALK HAND-RAILING W/O BALUSTERS	LINEAR FT	424	81	403

MSE WALL SYSTEMS DATA TABLE

PROPRIETARY WALL SYSTEMS		COMBINATION WALL SYSTEMS			
MANUFACTURER	SYSTEM	FACING UNIT MANUFACTURER	FACING UNIT	GEOGRID MANUFACTURER	GEOGRID

MSE WALL SYSTEMS DATA TABLE IS TO BE COMPLETED BY MoDOT CONSTRUCTION PERSONNEL TO RECORD THE MANUFACTURER OF THE PROPRIETARY WALL SYSTEM OR THE MANUFACTURERS OF THE COMBINATION WALL SYSTEM THAT WAS USED FOR CONSTRUCTING THE MSE WALL.

MSE WALL GENERAL NOTES:

DESIGN SPECIFICATIONS:

2002 AASHTO LFD (17TH ED.) STANDARD SPECIFICATIONS (SECTION 5, ASD DESIGN)
SEISMIC PERFORMANCE CATEGORY A
ACCELERATION COEFFICIENT = 0.09

DESIGN LOADING:

ϕ_D = 28° AND UNIT WEIGHT, γ_D = 120 PCF FOR RETAINED BACKFILL MATERIAL TO BE RETAINED BY THE MECHANICALLY STABILIZED EARTH WALL SYSTEM.

ϕ_f = 28° FOR UNIMPROVED FOUNDATION GROUND WHERE WALL IS TO BEAR.

ACTUAL ϕ_r ≥ 34°FOR THE SELECT GRANULAR BACKFILL (REINFORCED BACKFILL AND WEDGE AREA BACKFILL) FOR STRUCTURAL SYSTEMS.

DESIGN ϕ_r = 34°FOR THE SELECT GRANULAR BACKFILL (REINFORCED BACKFILL) ONLY FOR STRUCTURAL SYSTEMS.

THE ALLOWABLE BEARING PRESSURE FOR UNIMPROVED FOUNDATION GROUND 1,500 PSF.

THE MAXIMUM APPLIED BEARING PRESSURE FOR THE CONTROLLING DESIGN CASE AT THE FOUNDATION LEVEL SHALL BE SHOWN ON THE MANUFACTURER'S DESIGN PLANS WHERE THE MAXIMUM APPLIED BEARING PRESSURE ≤ ALLOWABLE BEARING PRESSURE. FOR SEISMIC DESIGN THE MAXIMUM APPLIED BEARING PRESSURE ≤ TWO TIMES ALLOWABLE BEARING PRESSURE.

FACTOR OF SAFETY SHALL BE 2.0 FOR OVERTURNING AND 1.5 FOR SLIDING.

FOR SEISMIC DESIGN THE FACTOR OF SAFETY SHALL BE 1.5 OVERTURNING AND 1.1 FOR SLIDING.

DESIGN UNIT STRESSES:

ALL CONCRETE FOR LEVELING PAD SHALL BE CLASS B OR B-1 WITH F'C = 4000 PSI.

MISCELLANEOUS:

THE MSE WALL SYSTEM SHALL BE BUILT IN ACCORDANCE WITH SEC 720 AND WITH JOB SPECIAL PROVISION "MECHANICALLY STABILIZED EARTH WALL SYSTEM."

A FILTER CLOTH MEETING THE REQUIREMENTS FOR A SEPARATION GEOTEXTILE MATERIAL SHALL BE PLACED BETWEEN THE SELECT GRANULAR BACKFILL OR STRUCTURAL SYSTEMS AND THE BACKFILL BEING RETAINED BY THE MECHANICALLY STABILIZED EARTH WALL SYSTEM.

ALL WALL DETAILS SHOW TOP AND BOTTOM ELEVATIONS USING A BASELINE FOR A VERTICAL WALL. IF A BATTERED SMALL BLOCK WALL SYSTEM IS USED, THE HEIGHT OF THE WALL SHALL BE ADJUSTED AS NECESSARY TO FIT THE GROUND SLOPE AND THE CONCRETE LEVELING PAD SHALL BE ADJUSTED AS NECESSARY TO ACCOUNT FOR THE WALL BATTER. IF A FENCE IS BUILT ON AN EXTENDED GUTTER, THEN THE HEIGHT OF THE WALL SHALL BE FURTHER ADJUSTED.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO COORDINATE CONSTRUCTION OF THE WALL WITH BRIDGE AND ROADWAY CONSTRUCTION AND ENSURE THAT THE BRIDGE AND ROADWAY CONSTRUCTION, RESULTING OR EXISTING OBSTRUCTIONS, SHALL NOT IMPACT THE CONSTRUCTION OR PERFORMANCE OF THE WALL. SOIL REINFORCEMENT SHALL BE DESIGNED AND PLACED TO AVOID DAMAGE BY PILE DRIVING, GUARDRAIL POST INSTALLATION, UTILITY AND SIGN FOUNDATIONS. (SEE ROADWAY AND BRIDGE PLANS.)

IF ROCK IS ENCOUNTERED IN THE PROPOSED REINFORCED BACKFILL AREA OR WEDGE AREA OF THE MSE WALL BEFORE OR DURING EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY CEASE EXCAVATION AND NOTIFY THE ENGINEER.

PERMANENT SHIMS FOR SMALL BLOCK MSE WALL:

SHIMS WILL BE SPARINGLY ALLOWED TO MAINTAIN HORIZONTAL AND VERTICAL CONTROL. THE PREFERABLE SHIM SHALL BE MADE OF A PLASTIC MATERIAL THAT WILL NOT RUST, STAIN, ROT OR LEACH ONTO THE CONCRETE AND HAS A MINIMUM COMPRESSIVE STRENGTH EQUAL TO BLOCK WALL UNIT. STEEL OR WOOD SHIMS WILL NOT BE ALLOWED. SHIMS SHALL NOT EXCEED ⅝" IN THICKNESS AND SHALL DISTRIBUTE LOAD IN ORDER TO NOT INDUCE STRESS INTO BLOCK WALL UNITS. NO SHIM SHALL BE USED BETWEEN THE CONCRETE LEVELING PAD AND THE BASE COURSE OF THE BLOCK WALL.

DISCLAIMER REGARDING GEOTECHNICAL INFORMATION:

(1) INFORMATION PROVIDED IN THIS PLAN SHEET HAS BEEN PROVIDED FOR INFORMATION ONLY BASED ON WORST CASE SCENARIO CONDITIONS. A FORMAL GEOTECHNICAL ANALYSIS HAS NOT BE PERFORMED FOR WALLS NO. 1 - 50; THEREFORE THE CONTRACTOR SHALL BE RESPONSIBLE IN CONSTRUCTION FOR VERIFYING INFORMATION PRIOR TO CONSTRUCTION OF THESE WALLS. THE COST OF SAID TESTING SHALL BE INCLUDED IN THE COST OF THE WALL. (SEE JOB SPECIAL PROVISIONS FOR DETAILS.)

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ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 182
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B/C
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

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SPECIAL SHEET
RETAINING WALL DEATILS
SHEET 1 OF 40

REV.

NOTES:

DECORATIVE PEDESTRIAN FENCING SHALL BE IN ACCORDANCE WITH 2010 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND 2010 INTERIM REVISIONS. THE DESIGN LINE LOAD FOR PEDESTRIAN RAILINGS WILL NOT REQUIRE A 50LB/FT AND 200LB LOAD BE APPLIED SIMULTANEOUSLY. THE POSTS OF PEDESTRIAN FENCING WILL REQUIRE BOTH LOADINGS APPLIED SIMULTANEOUSLY.

FENCE SHALL HAVE A GLOSS BLACK FINISH (FEDERAL STANDARD #17038) SYSTEM "G" IN ACCORDANCE WITH SEC 1081.

BASE PLATE SHALL BE ASTM A709, GRADE 36.

DIMENSIONS OF PEDESTRIAN FENCE ARE MEASURED HORIZONTALLY.

MEASUREMENT OF PEDESTRIAN FENCE WILL BE MADE TO THE NEAREST LINEAR FOOT ALONG CENTERLINE FENCE.

PAYMENT FOR FURNISHING AND ERECTING THE FENCE, COMPLETE IN PLACE, WITH U-BOLTS, WASHERS AND REINFORCING BARS WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR 48" DECORATIVE PEDESTRIAN FENCE (STRUCTURES) MEASURED ALONG THE OUTSIDE EDGE OF THE WALL FROM END OF WALL TO END OF WALL.

ALL FENCE POSTS SHALL BE VERTICAL.

SUBSTITUTION FOR THE U-BOLT CAGES ON THE DECORATIVE PEDESTRIAN FENCE WILL NOT BE PERMITTED.

MORTAR SHALL BE PLACED UNDER THE POST BASE PLATES IN ACCORDANCE WITH SEC 1066.

CONTRACTOR SHALL SUBMIT COMPLETE DETAILED SHOP DRAWINGS IN ACCORDANCE WITH SEC 1080.

THE CONTRACTOR SHALL HAVE THE DECORATIVE PEDESTRIAN FENCING MANUFACTURER SUBMIT STRUCTURAL DESIGN COMPUTATIONS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI.

ALL MATERIALS USED IN FABRICATION AND CONSTRUCTION OF THE DECORATIVE PEDESTRIAN FENCING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, EXCEPT AS MODIFIED IN THE CONTRACT DOCUMENTS.

DECORATIVE PEDESTRIAN FENCING SYSTEM SHALL BE SUPPLIED BY ONLY ONE OF THE FOLLOWING MANUFACTURERS. FENCING SYSTEM SHALL INCLUDE ALL COMPONENTS EXCEPT THE ANCHOR BOLTS AND #4 BARS WELDED TO THE ANCHOR BOLTS. THE ASSEMBLY OF THE PICKETS TO THE RAILS AND THE RAILS TO THE POSTS SHALL BE THE SAME AS THE STYLE MENTIONED FOR THE MANUFACTURER.

AMERISTAR FENCE PRODUCTS, INC.
1555 N. MINGO
TULSA, OK 74116
(800) 321-8724
www.ameristarfence.com

STYLE: AEGIS II MAJESTIC

BETAFENCE USA
3309 S.W. INTERSTATE 45
ENNIS, TX 75119
(888) 650-4766
www.betafenceusa.com

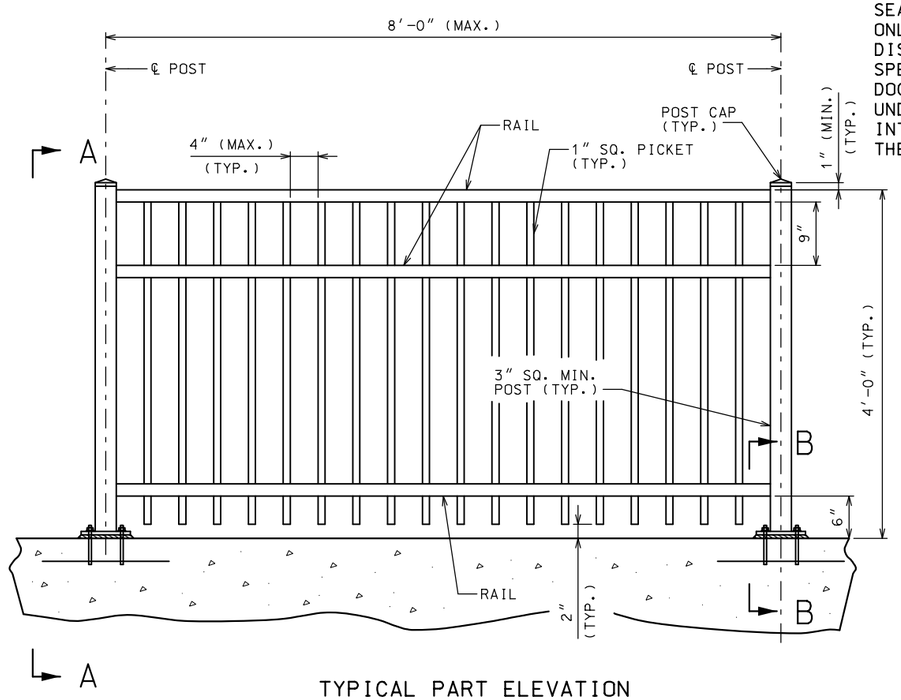
STYLE: UPGRADE-I LANDMARK

IRON EAGLE INDUSTRIES, INC.
1256 CARDIFF BLVD.
MISSISSAUGA, ONTARIO CANDADA L5S1R1
(905) 670-2558
www.ironeagleind.com

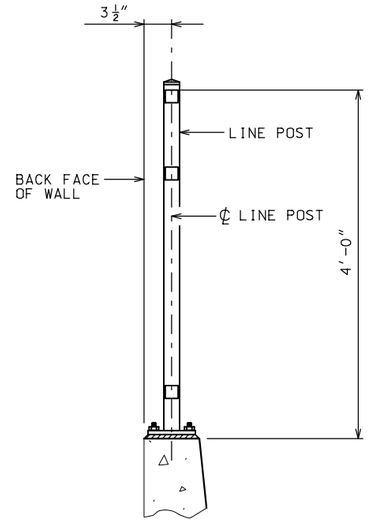
STYLE: SILVER EAGLE II

MERCHANTS METALS
6575 ROMISS COURT
ST. LOUIS, MO 63134
(800) 293-3363
www.merchantsmetals.com

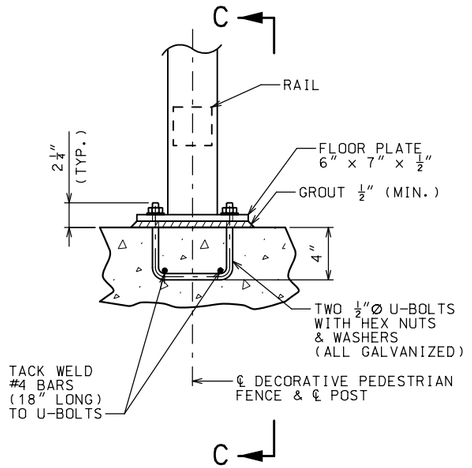
STYLE: GUARDSMAN MONROE



TYPICAL PART ELEVATION

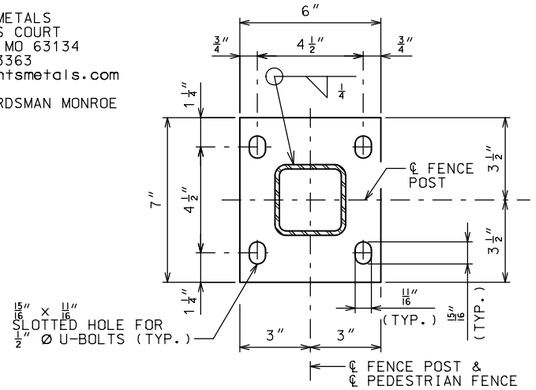


SECTION A-A

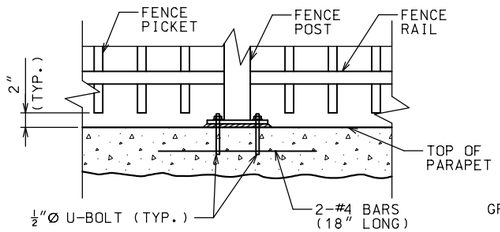


SECTION B-B AT FENCE SUPPORT

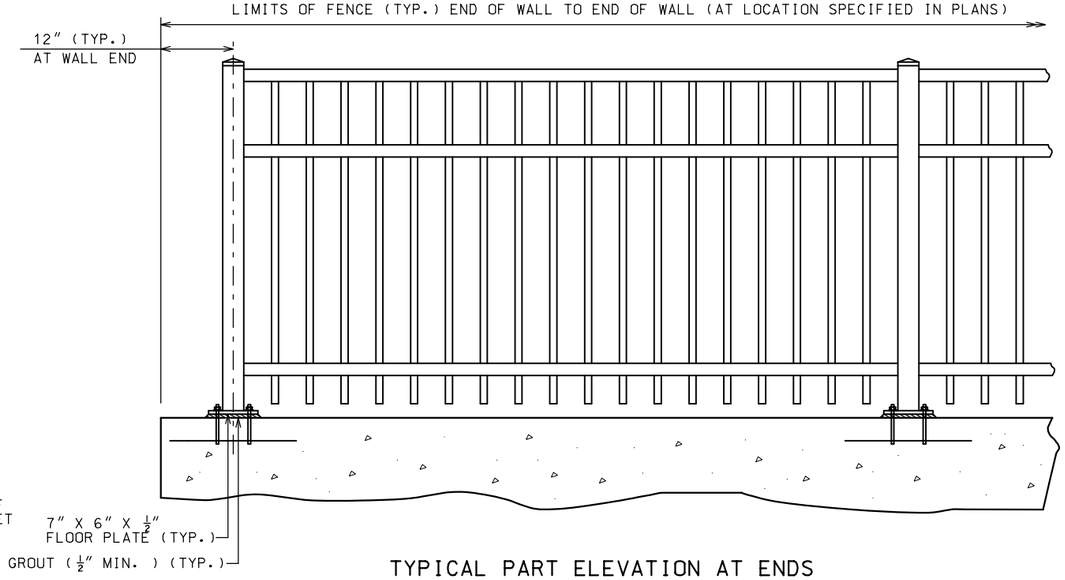
NOTE: REINFORCEMENT NOT SHOWN FOR CLARITY.



PLAN OF FLOOR PLATE



SECTION C-C AT SUPPORT



TYPICAL PART ELEVATION AT ENDS

DISCLAIMER

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DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 183
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES

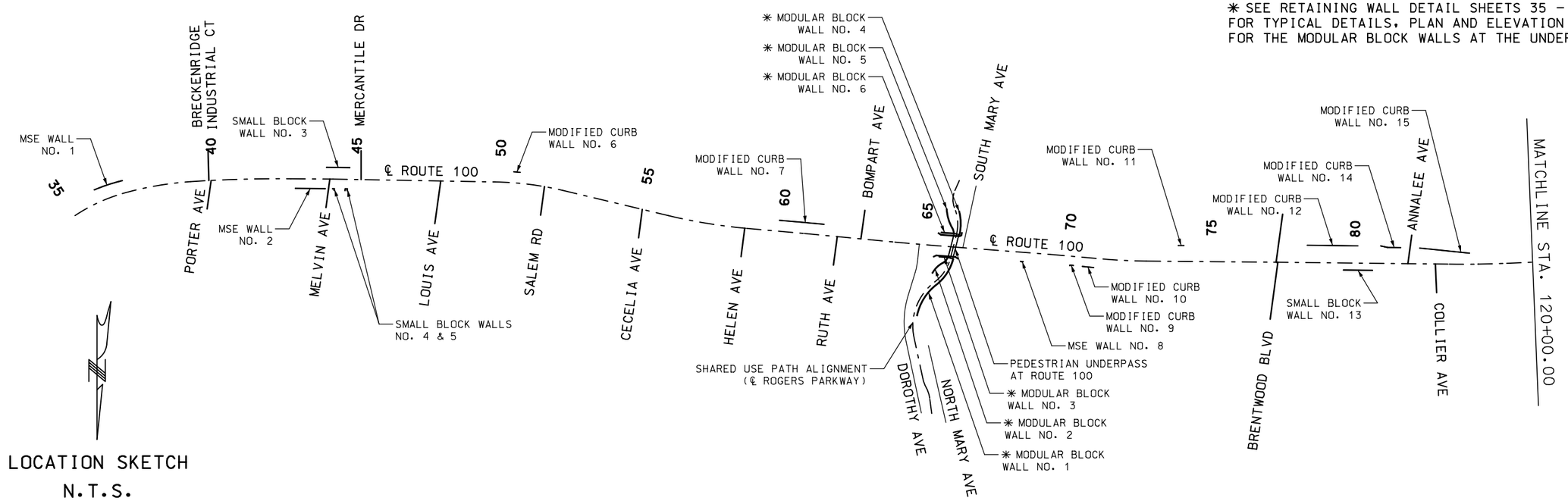
SPECIAL SHEET
RETAINING WALL DEATILS
SHEET 2 OF 40

REV.

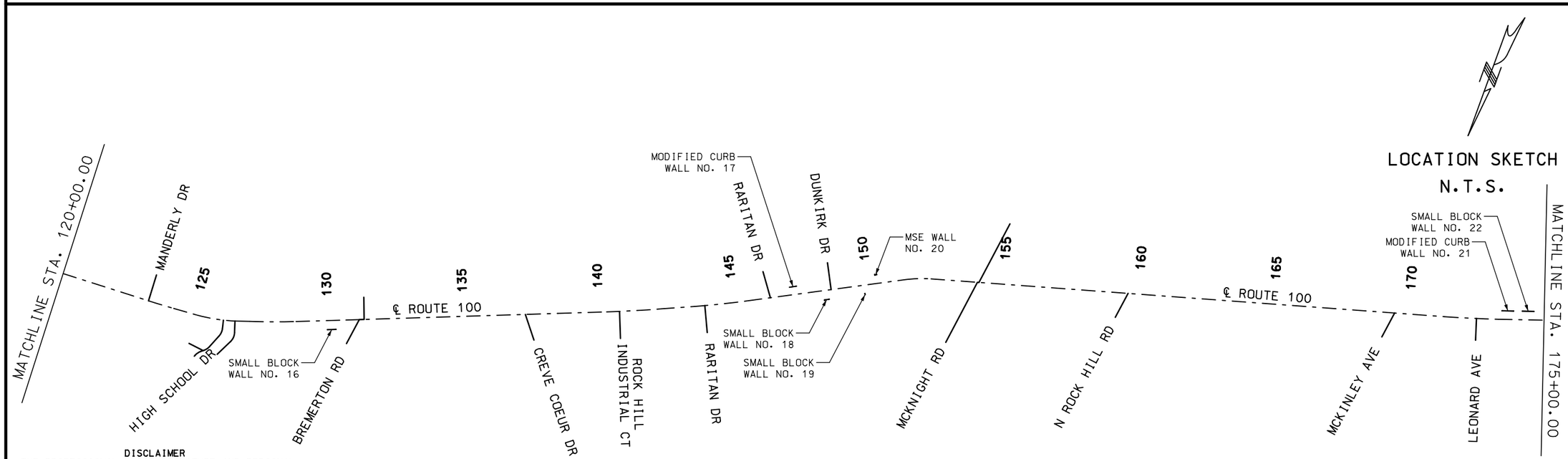
DECORATIVE PEDESTRIAN FENCE DETAILS (PROJECTS J6S1718 & J6S1718C ONLY)

NOTE:

✳ SEE RETAINING WALL DETAIL SHEETS 35 - 40 FOR TYPICAL DETAILS, PLAN AND ELEVATION VIEWS FOR THE MODULAR BLOCK WALLS AT THE UNDERPASS.



LOCATION SKETCH
N.T.S.



LOCATION SKETCH
N.T.S.

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DATE PREPARED 2/3/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 184
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

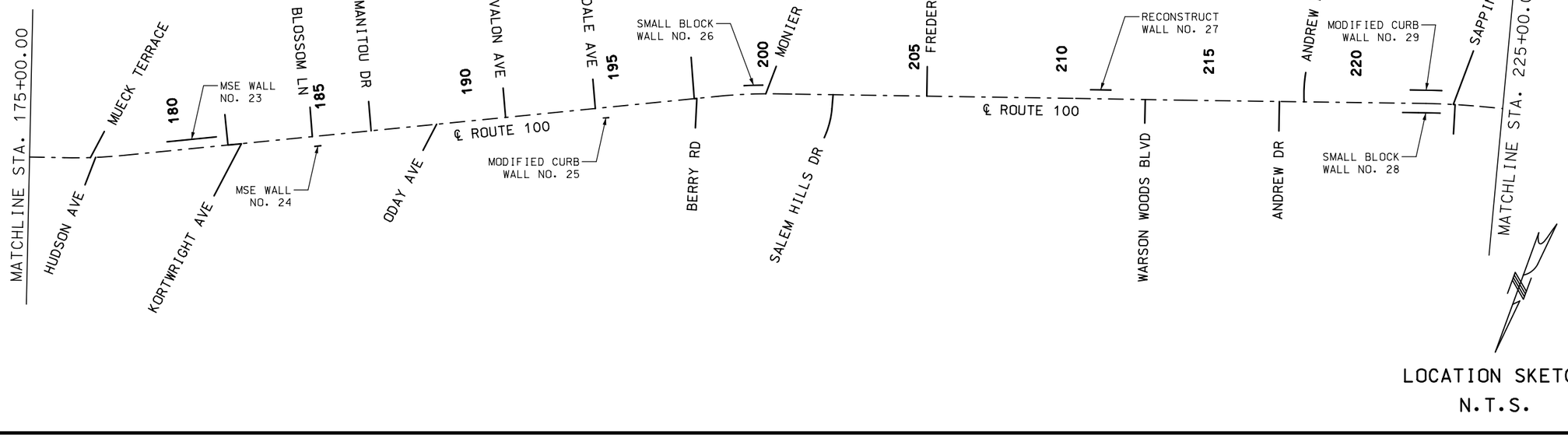
TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 3 OF 40

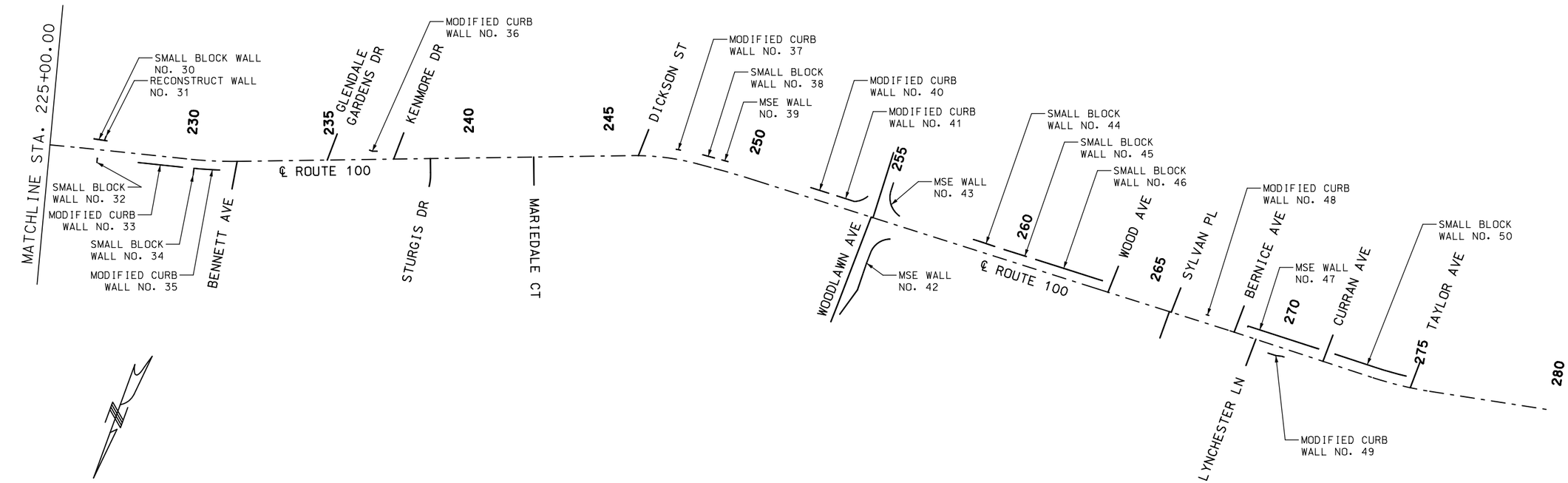
REV.

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LOCATION SKETCH
N.T.S.



LOCATION SKETCH
N.T.S.

DATE PREPARED	1/30/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	185
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B/C
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

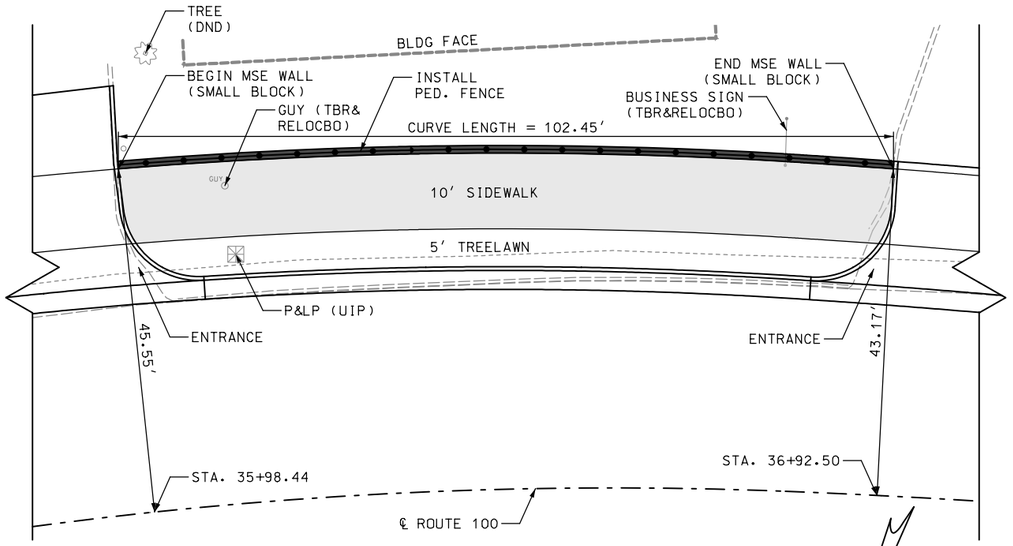
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

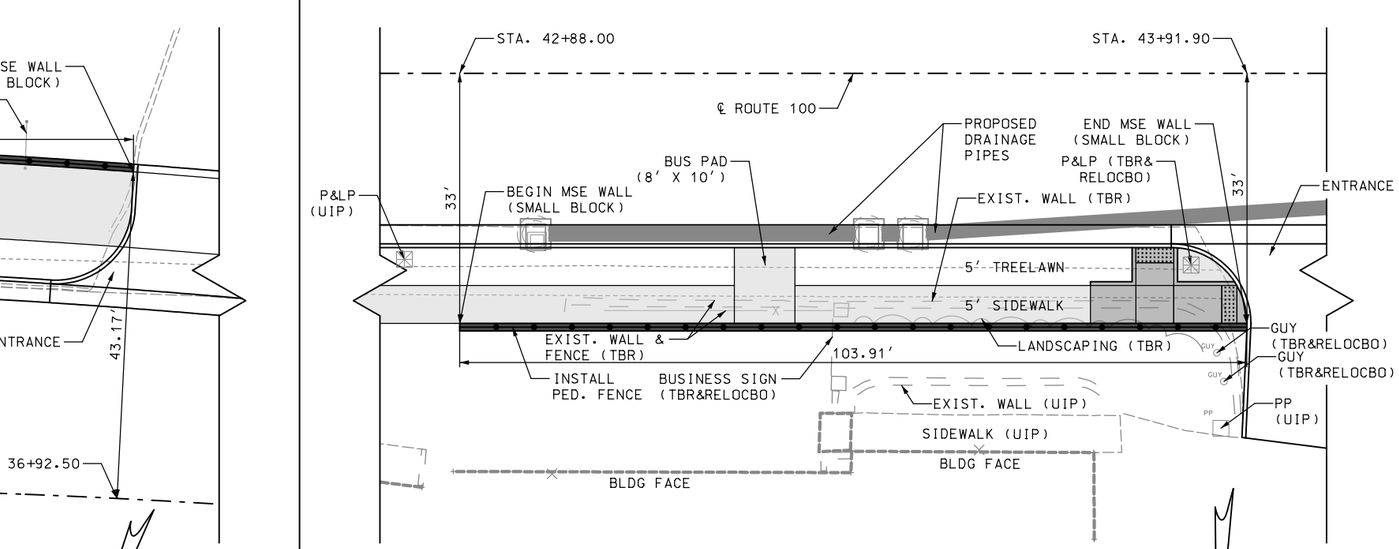
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GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 4 OF 40

REV.

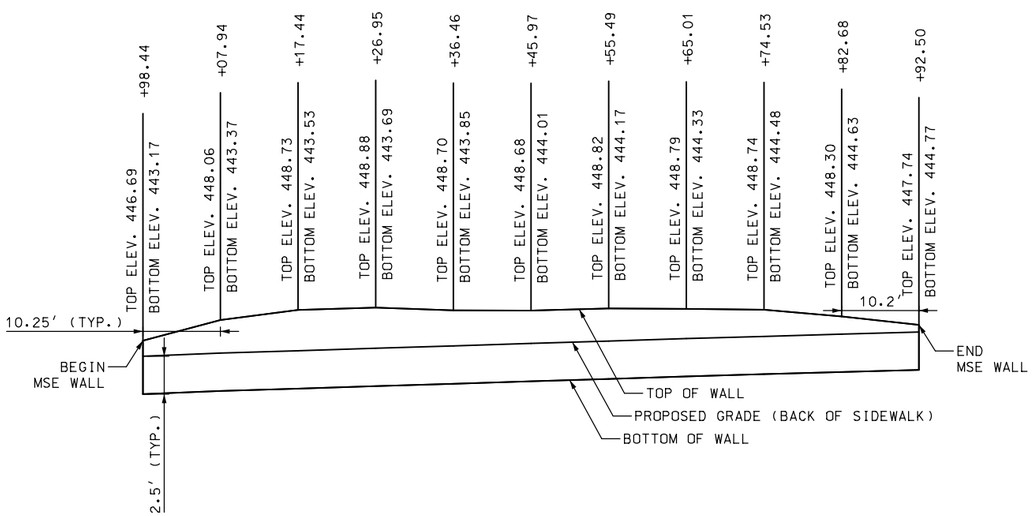


1 WALL PLAN VIEW
MSE WALL (SMALL BLOCK)
STA. 35+98.44 TO STA. 36+92.50



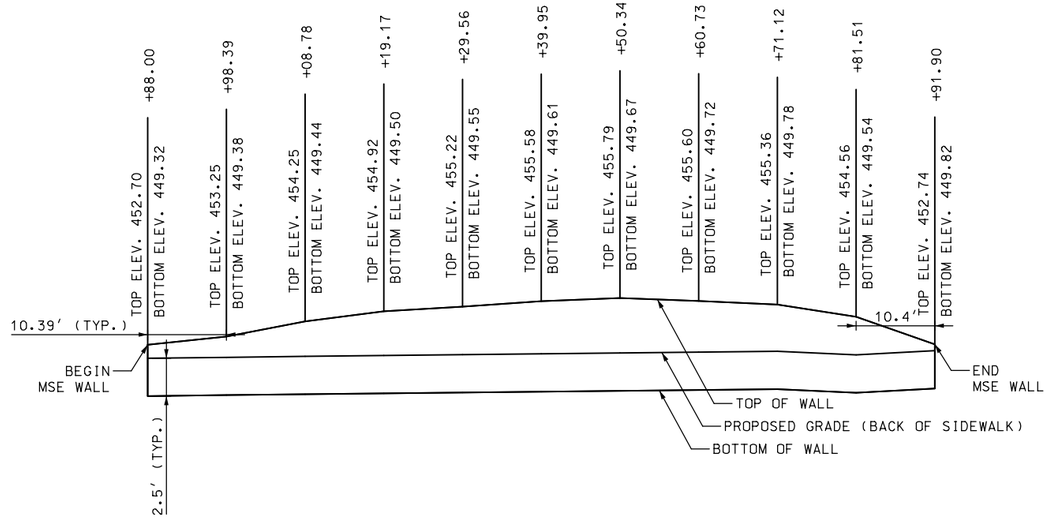
2 WALL PLAN VIEW
MSE WALL (SMALL BLOCK)
STA. 42+88.00 TO STA. 43+91.90

SCALE
0 10 20 30



1 WALL PROFILE VIEW
MSE WALL (SMALL BLOCK) - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



2 WALL PROFILE VIEW
MSE WALL (SMALL BLOCK) - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 186
COUNTY
ST. LOUIS
JOB NO.
J6S1718/J6S1718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

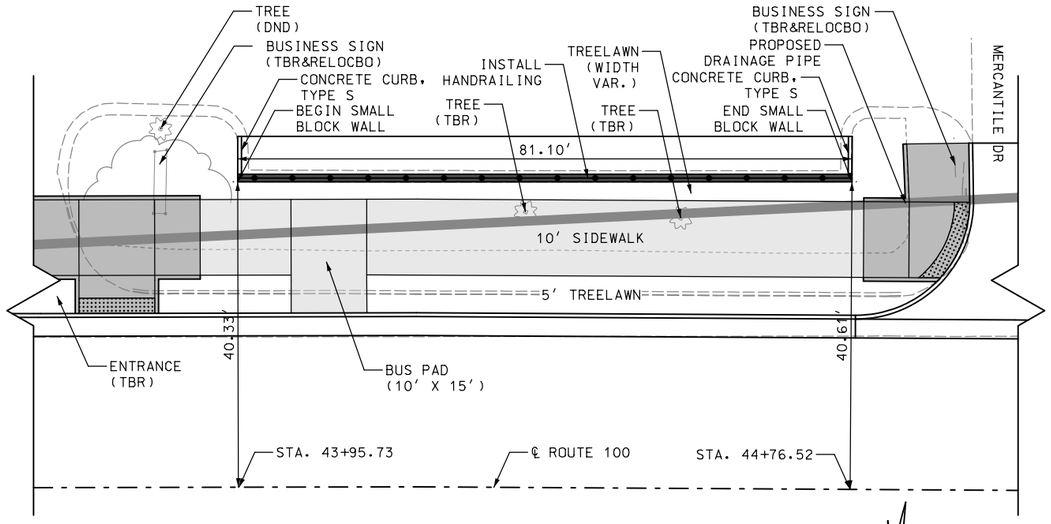
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

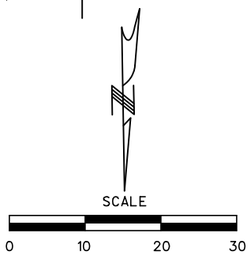
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 5 OF 40

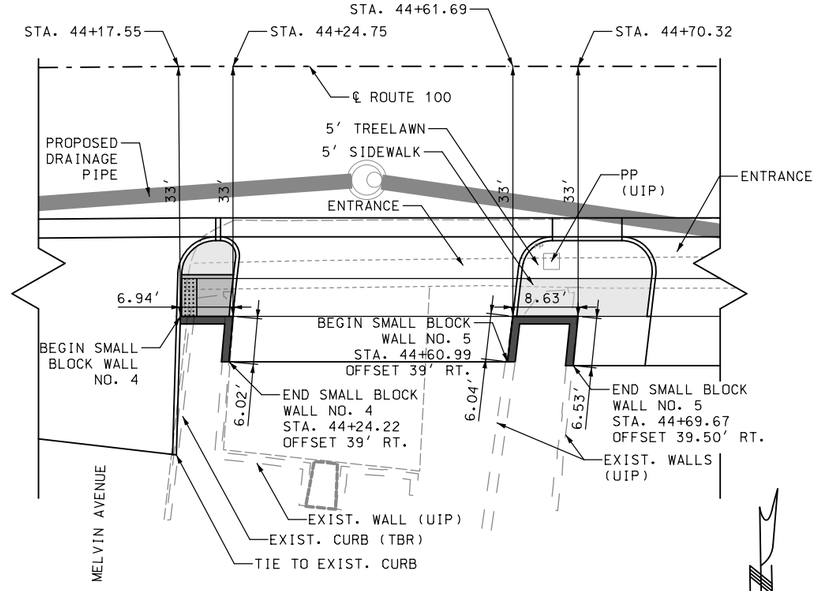
REV.



3 WALL PLAN VIEW

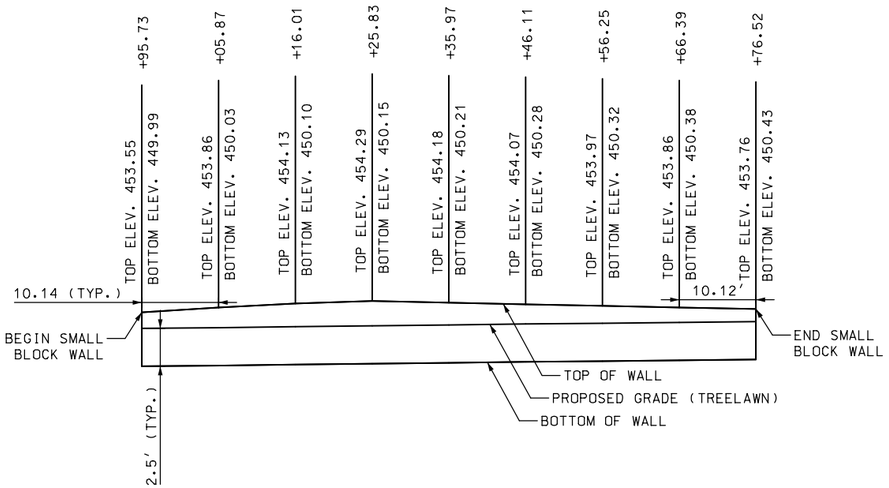
SMALL BLOCK WALL
STA. 43+95.73 TO STA. 44+76.52





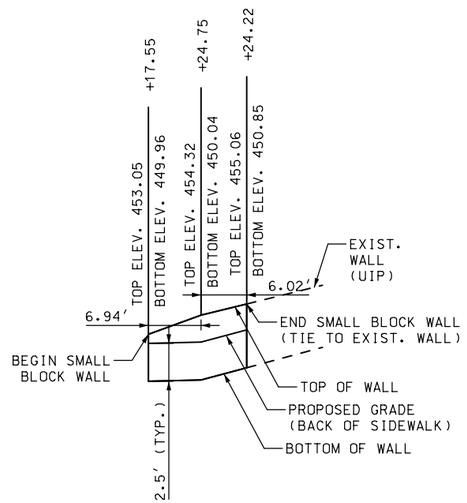
4 5 WALL PLAN VIEW

SMALL BLOCK WALL
STA. 44+17.55 TO STA. 44+24.22
SMALL BLOCK WALL
STA. 44+60.99 TO STA. 44+69.67



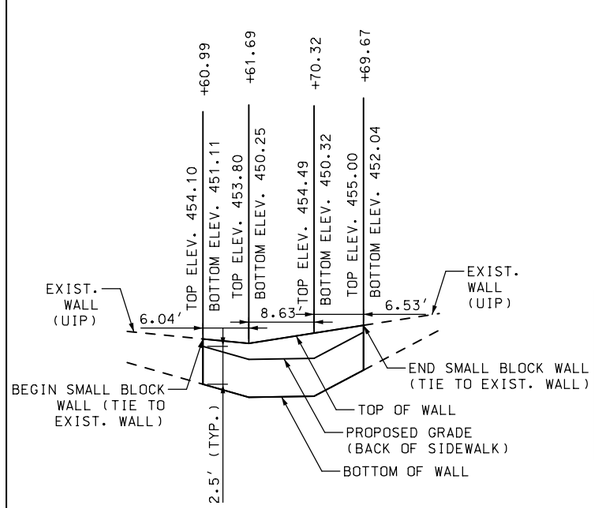
3 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)



4 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)



5 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: ALL WALL PROFILES SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
3/10/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	187

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

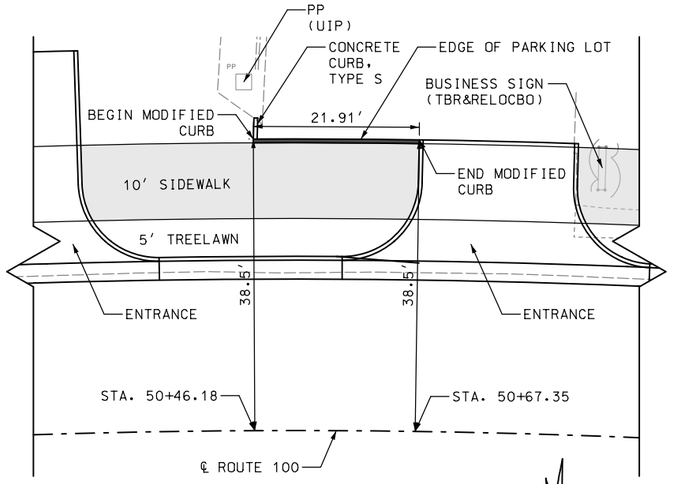
DESCRIPTION	DATE
. . . . .	. . . . .

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 6 OF 40

REV.



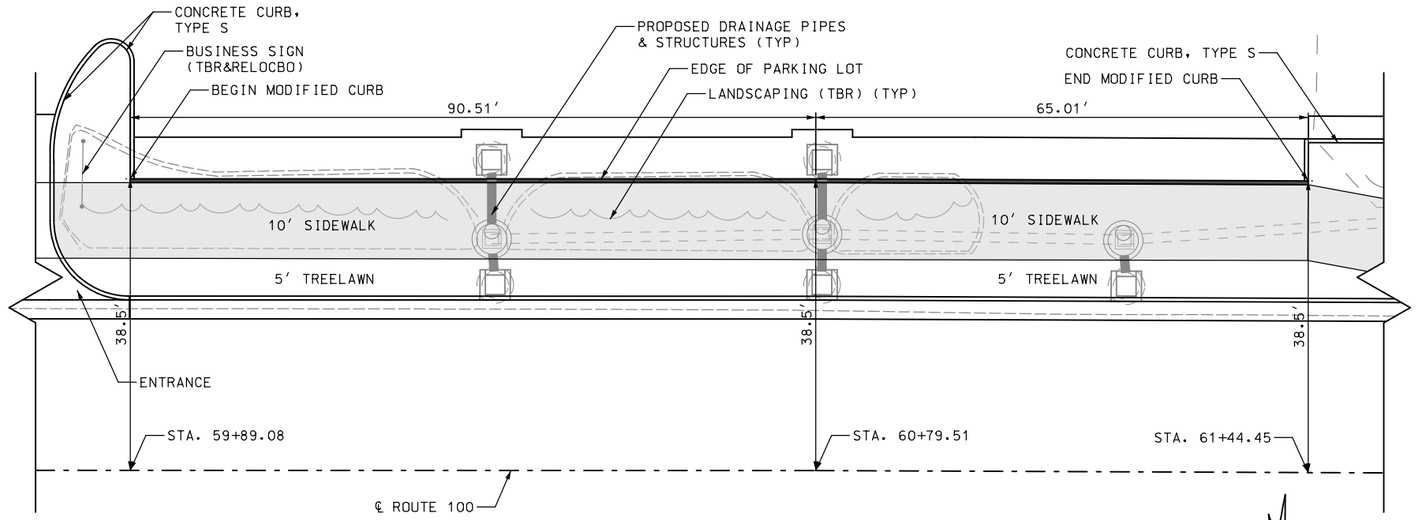
6 WALL PLAN VIEW

MODIFIED CURB

STA. 50+46.18 TO STA. 50+67.35

SCALE

0 10 20 30



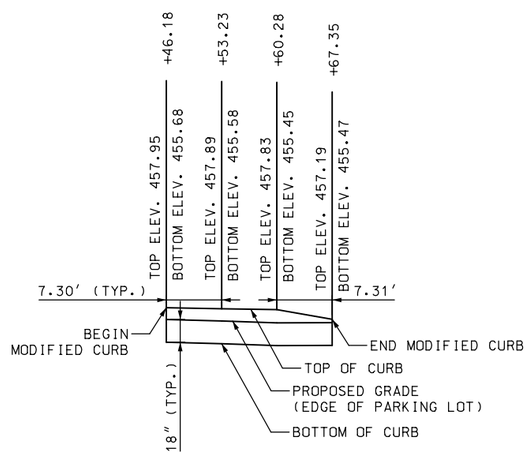
7 WALL PLAN VIEW

MODIFIED CURB

STA. 59+89.08 TO STA. 61+44.45

SCALE

0 10 20 30

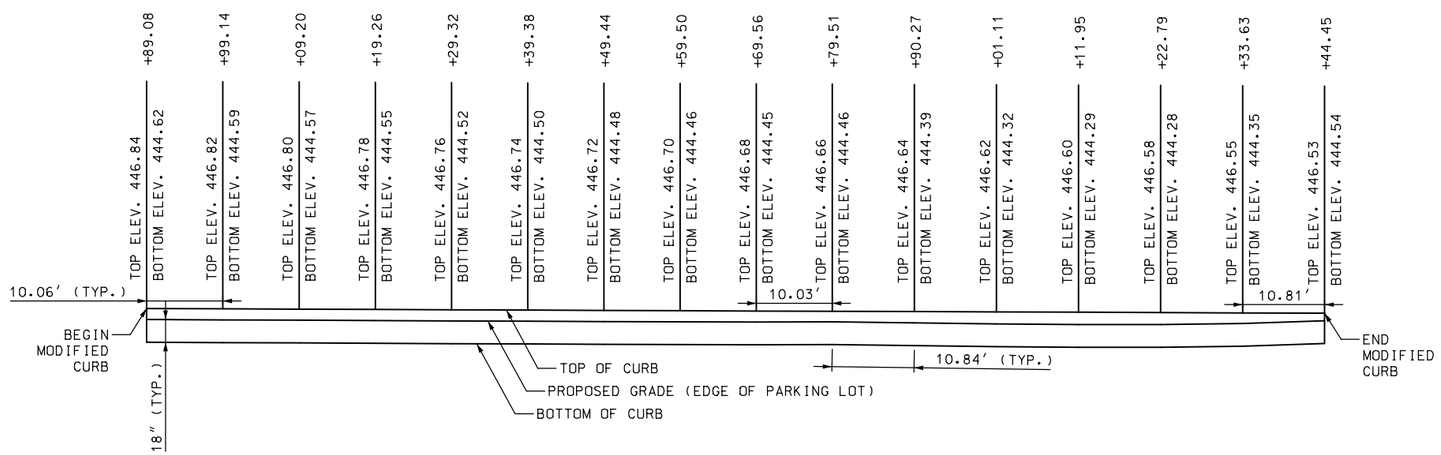


6 WALL PROFILE VIEW

MODIFIED CURB – FILL SECTION

(BACK FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



7 WALL PROFILE VIEW

MODIFIED CURB – FILL SECTION

(BACK FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
1/30/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 188

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

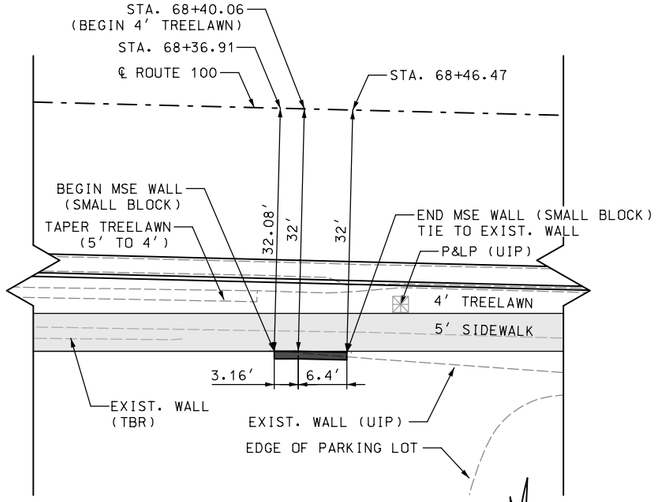
TWM
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GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET

RETAINING WALL DETAILS

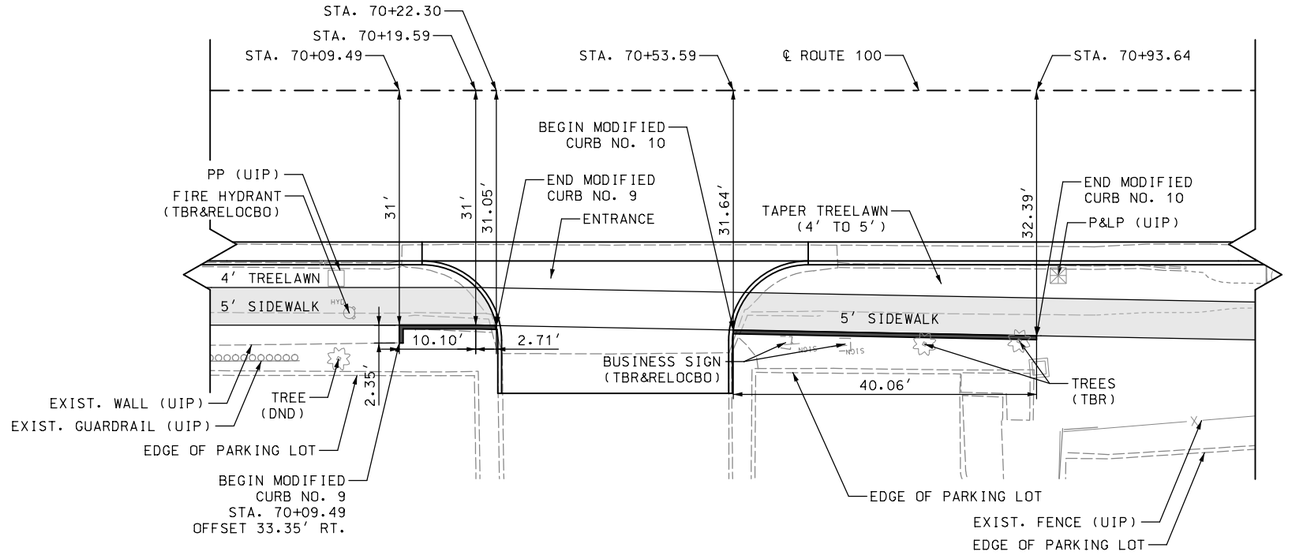
SHEET 7 OF 40

REV.



8 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 68+36.91 TO STA. 68+46.47



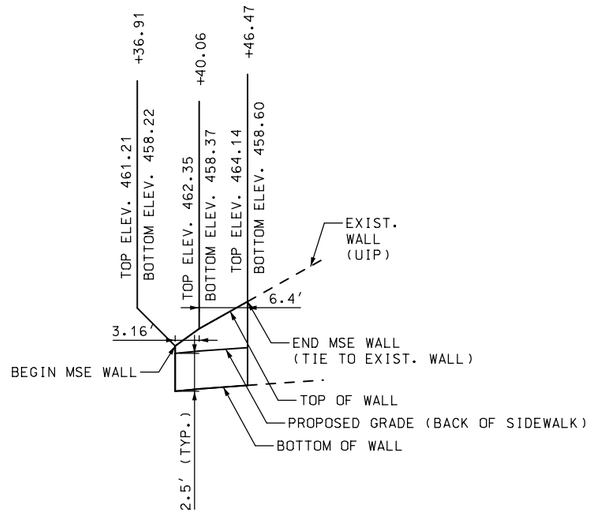
9 WALL PLAN VIEW

MODIFIED CURB
STA. 70+09.49 TO STA. 70+22.30

10 WALL PLAN VIEW

MODIFIED CURB
STA. 70+53.59 TO STA. 70+93.64

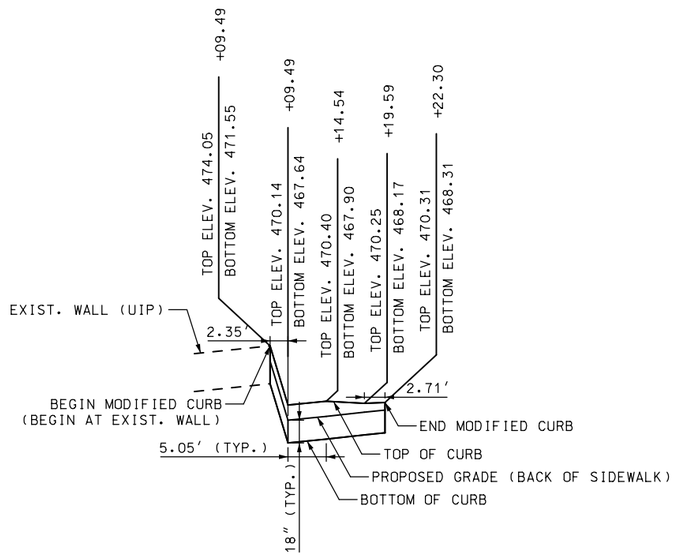
SCALE
0 10 20 30



8 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) – CUT SECTION
(FRONT FACE OF WALL SHOWN)

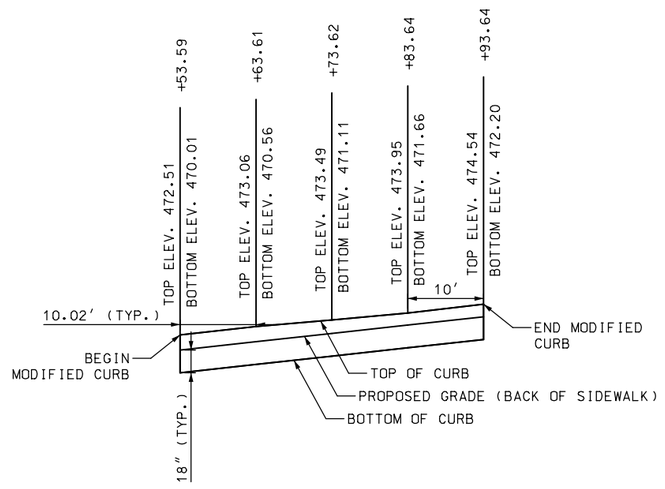
NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



9 WALL PROFILE VIEW

MODIFIED CURB – CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



10 WALL PROFILE VIEW

MODIFIED CURB – CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
1/31/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	189

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

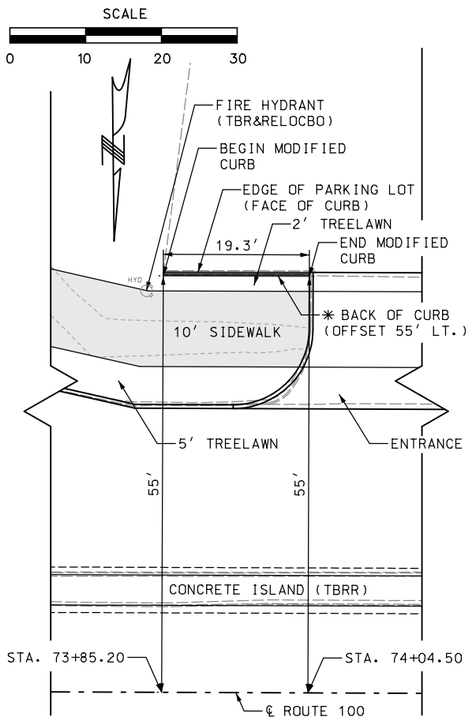
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JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001528

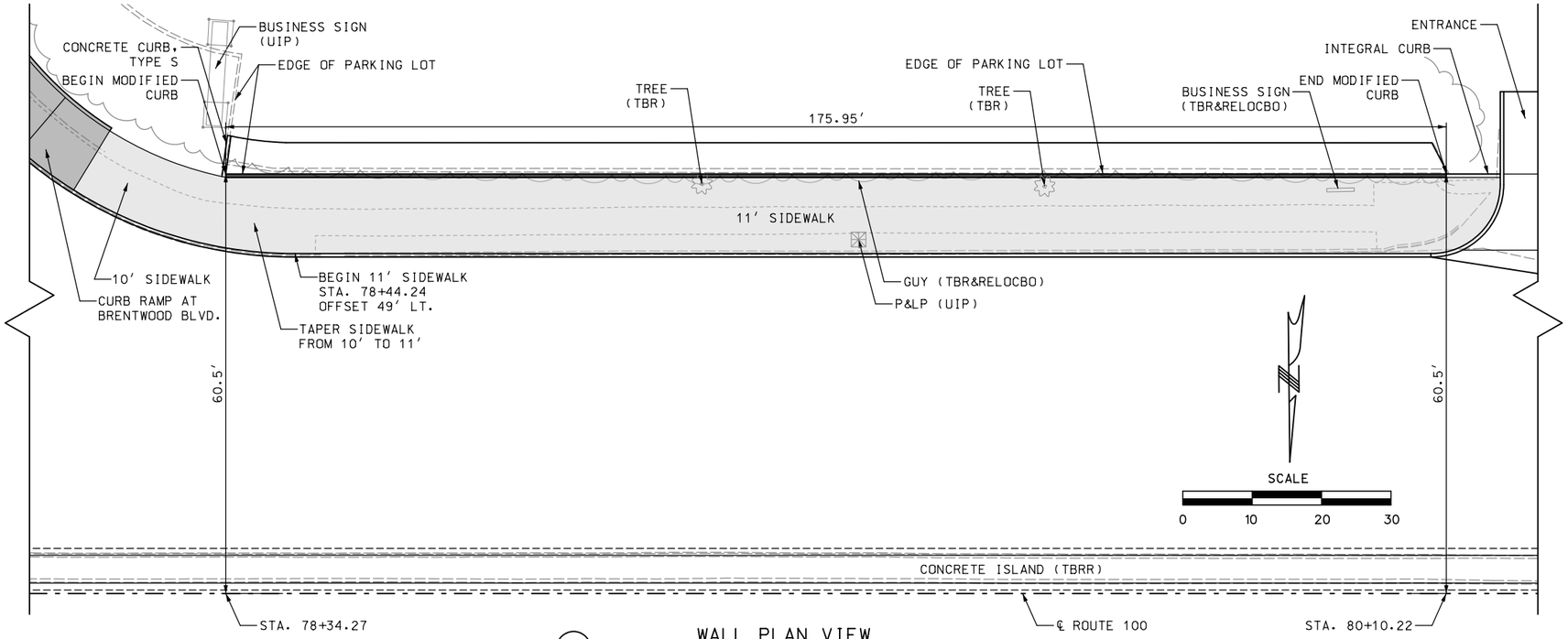
SPECIAL SHEET

RETAINING WALL DETAILS

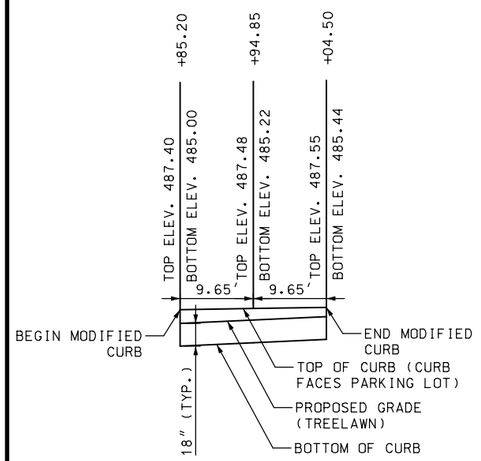
SHEET 8 OF 40



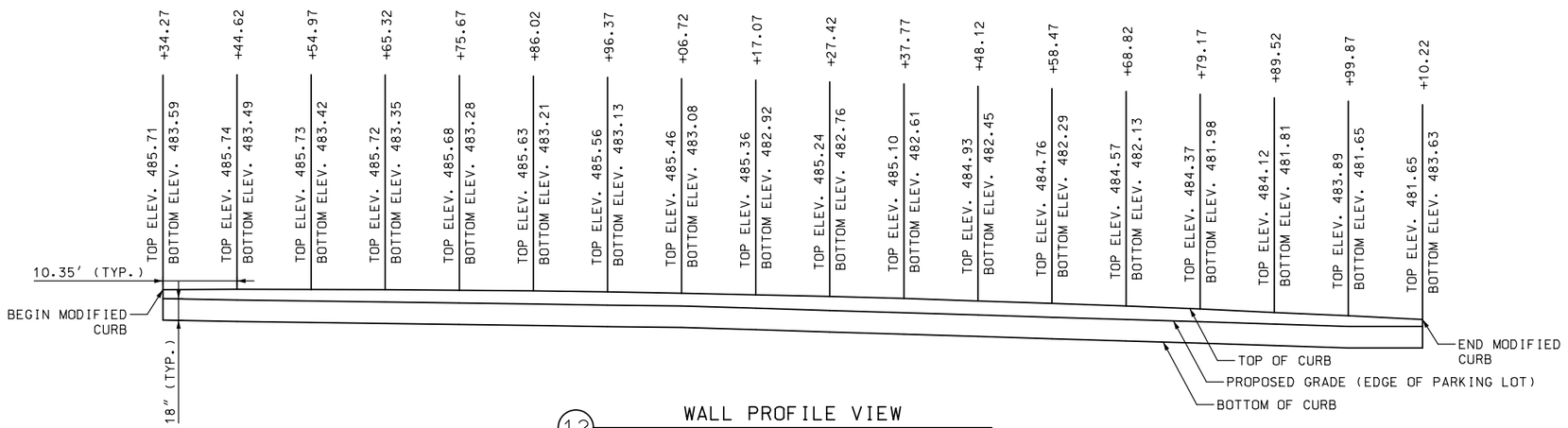
11 WALL PLAN VIEW
MODIFIED CURB
STA. 73+85.20 TO STA. 74+04.50



12 WALL PLAN VIEW
MODIFIED CURB
STA. 78+34.27 TO STA. 80+10.22



11 WALL PROFILE VIEW
MODIFIED CURB - FILL SECTION
(✳ BACK FACE OF CURB SHOWN)



12 WALL PROFILE VIEW
MODIFIED CURB - FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILES SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
1/30/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	190

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE	REV.
.	.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

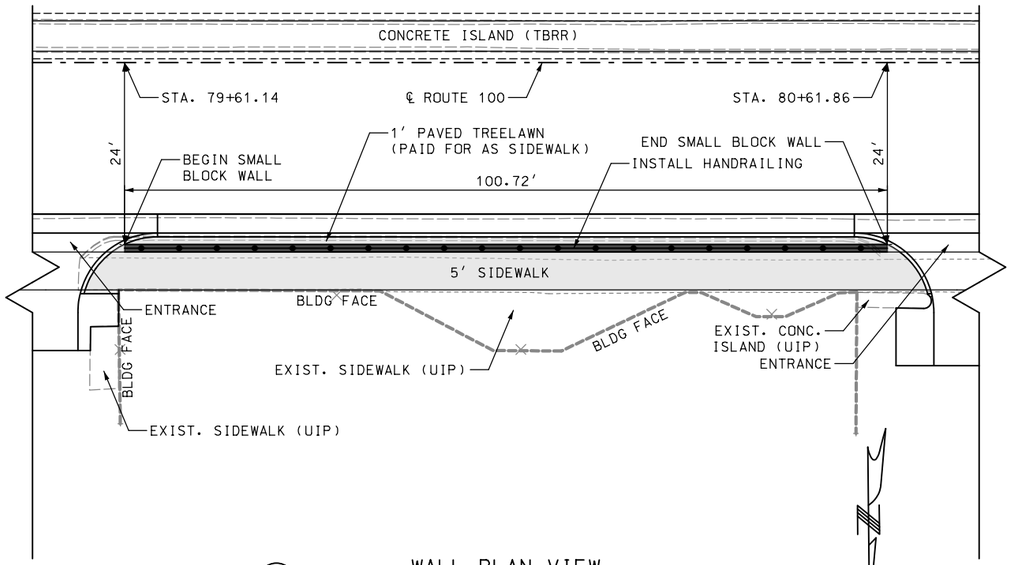
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001528

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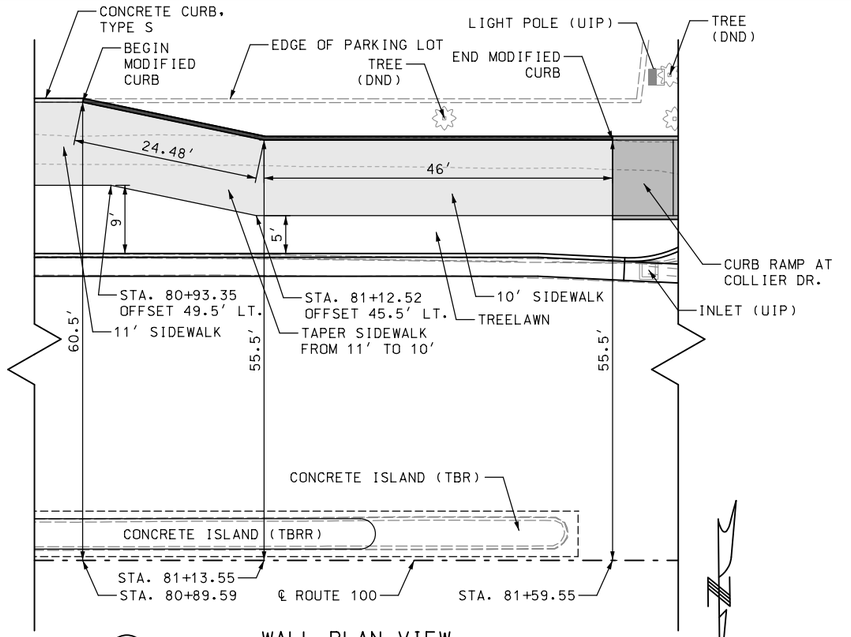
RETAINING WALL DETAILS

SHEET 9 OF 40



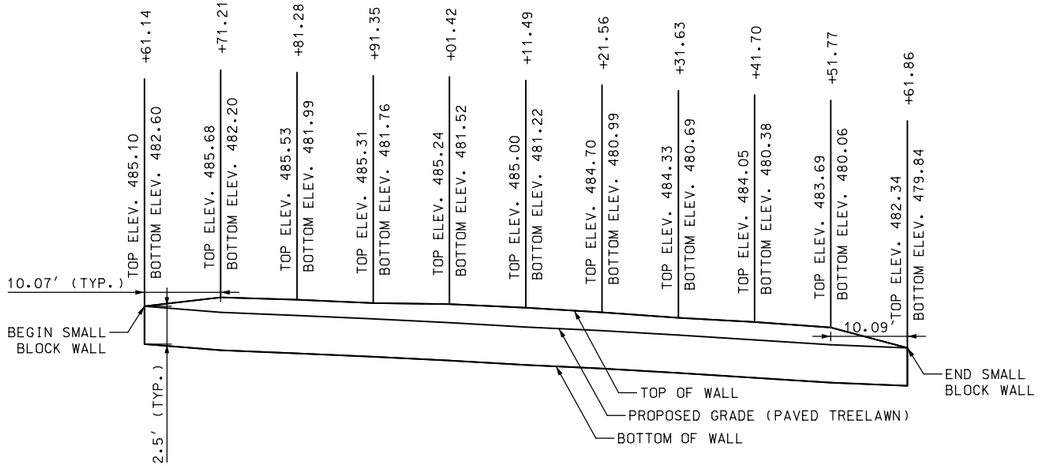
13 WALL PLAN VIEW

SMALL BLOCK WALL
STA. 79+61.14 TO STA. 80+61.86



14 WALL PLAN VIEW

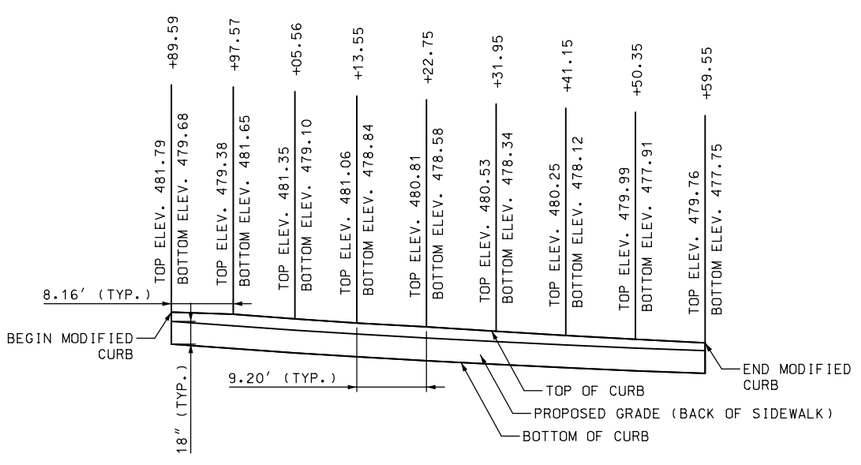
MODIFIED CURB
STA. 80+89.59 TO STA. 81+59.55



13 WALL PROFILE VIEW

SMALL BLOCK WALL – FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



14 WALL PROFILE VIEW

MODIFIED CURB – CUT SECTION
(FRONT FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

SCALE
0 10 20 30

DATE PREPARED
3/10/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	191

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

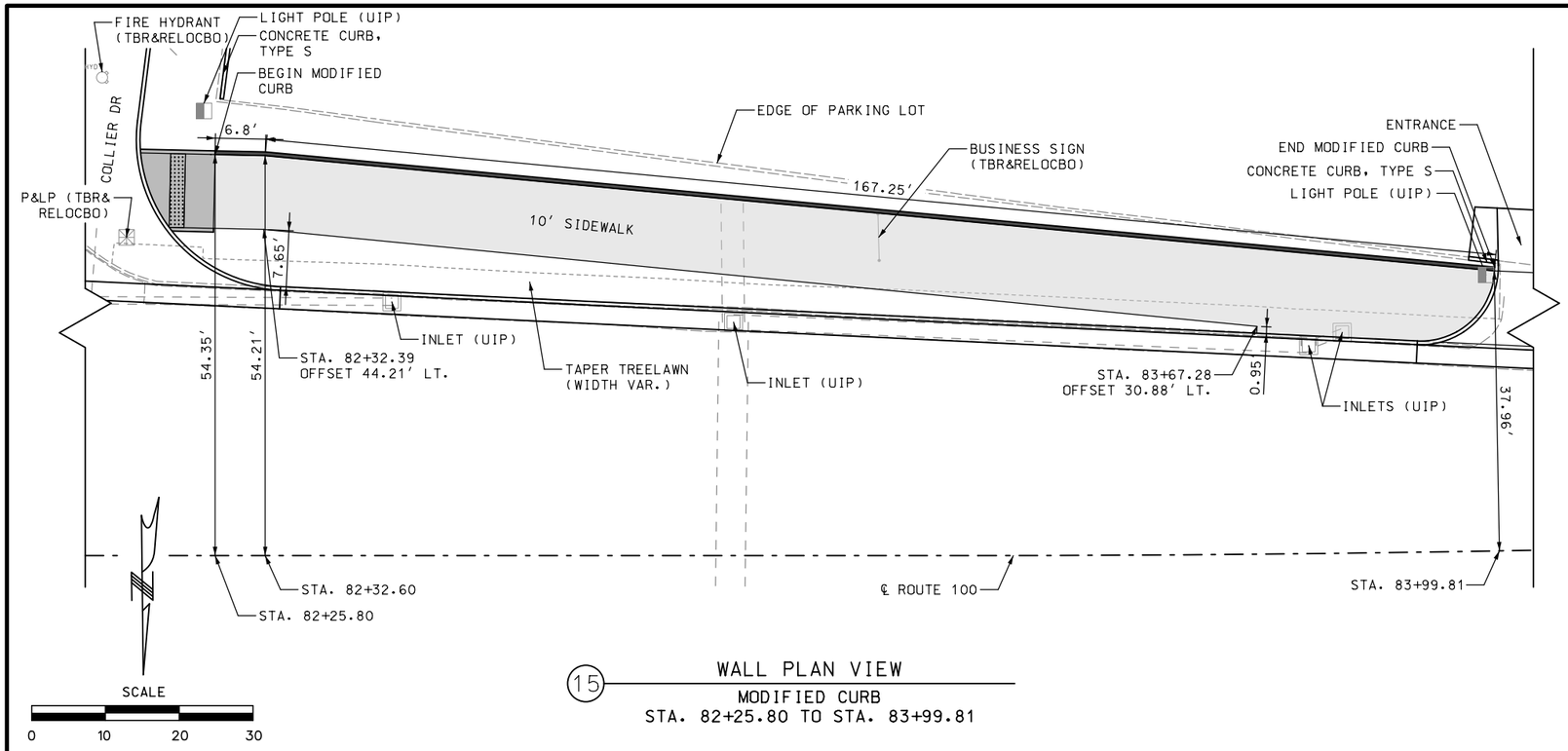
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SPECIAL SHEET

RETAINING WALL DETAILS

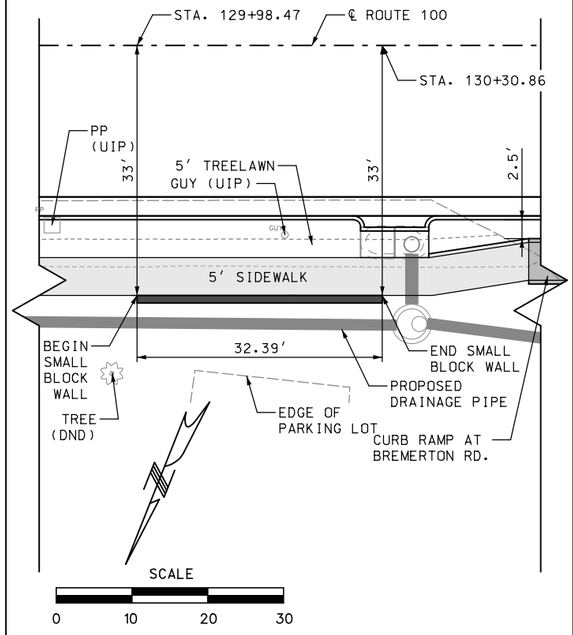
SHEET 10 OF 40

REV.



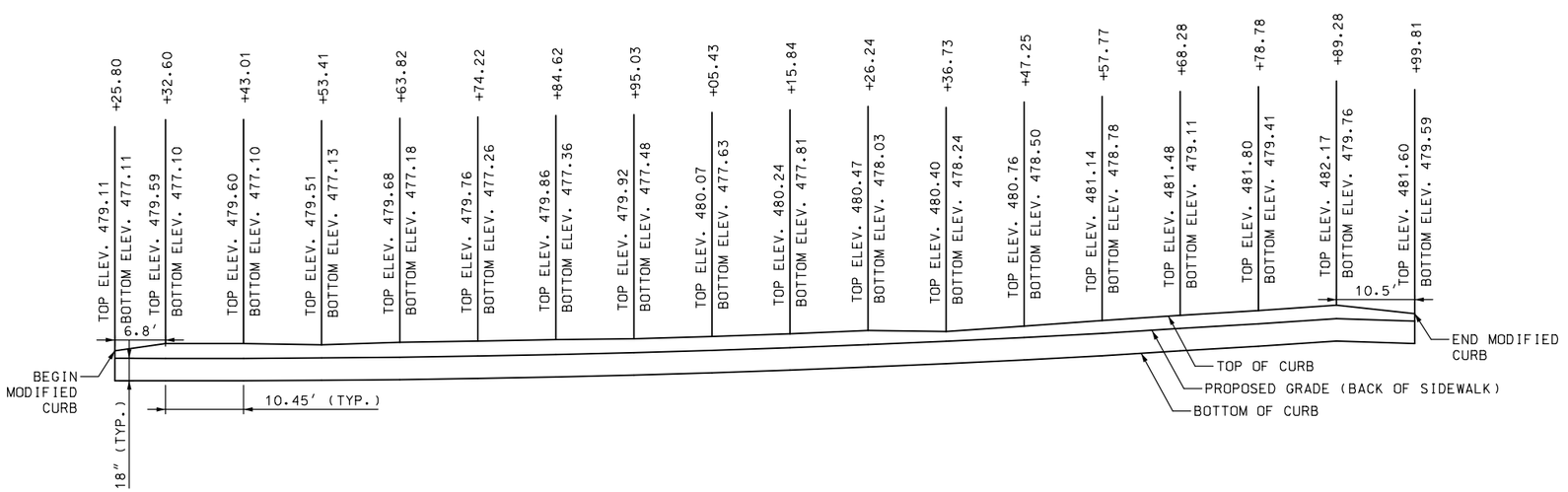
15 WALL PLAN VIEW

MODIFIED CURB
STA. 82+25.80 TO STA. 83+99.81



16 WALL PLAN VIEW

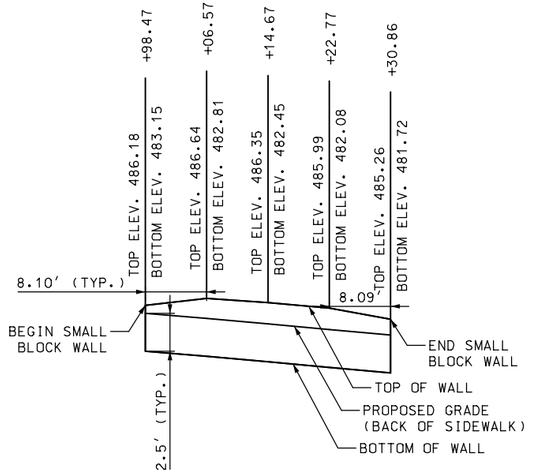
SMALL BLOCK WALL
STA. 129+98.47 TO STA. 130+30.86



15 WALL PROFILE VIEW

MODIFIED CURB - CUT SECTION
(FRONT FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



16 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
1/30/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	192

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

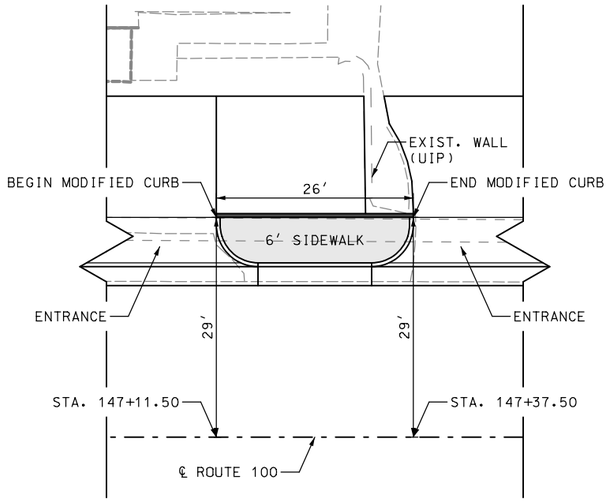
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GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET

RETAINING WALL DETAILS

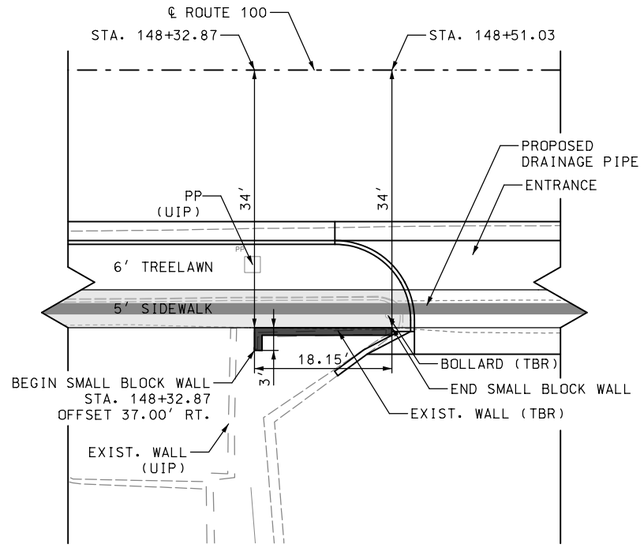
SHEET 1-1 OF 40

REV.



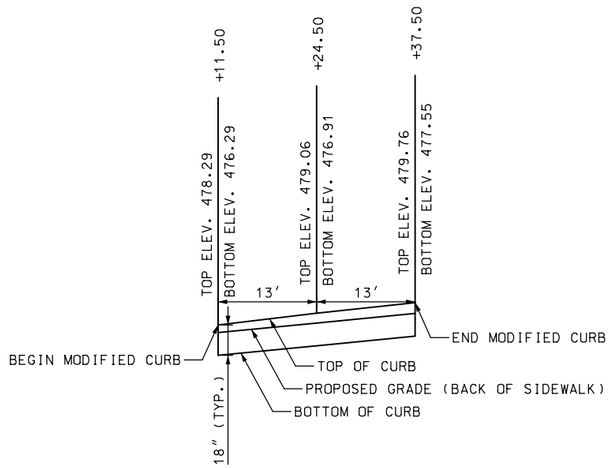
17 WALL PLAN VIEW
MODIFIED CURB
STA. 147+11.50 TO STA. 147+37.50

SCALE
0 10 20 30



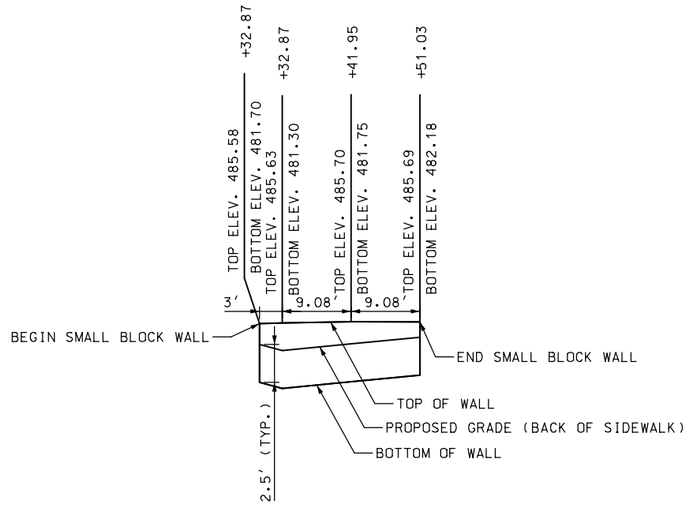
18 WALL PLAN VIEW
SMALL BLOCK WALL
STA. 148+32.87 TO STA. 148+51.03

SCALE
0 10 20 30



17 WALL PROFILE VIEW
MODIFIED CURB – CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



18 WALL PROFILE VIEW
SMALL BLOCK WALL – CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 193
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

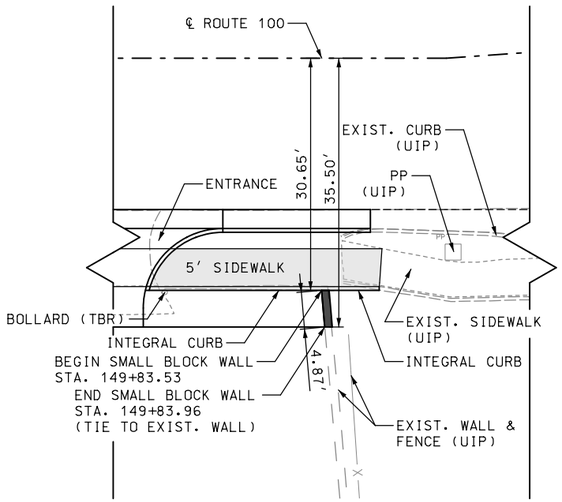
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 12 OF 40

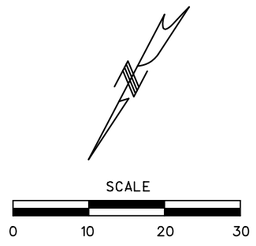
REV. .

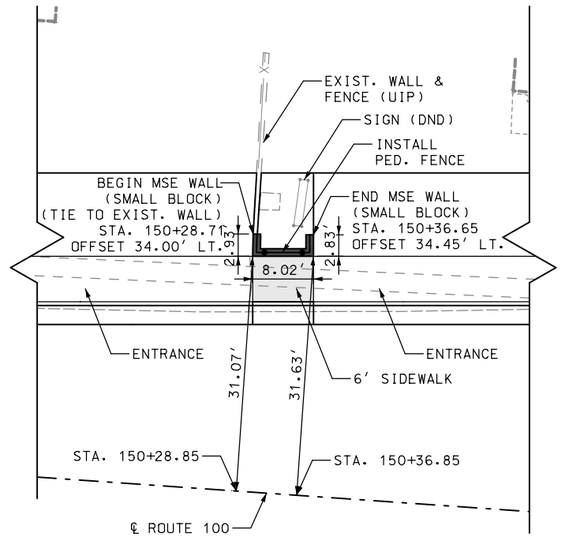
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19 WALL PLAN VIEW

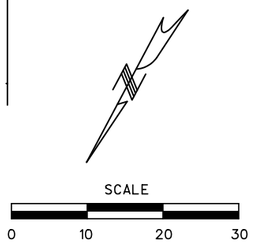
SMALL BLOCK WALL
STA. 149+83.53 TO STA. 149+83.96

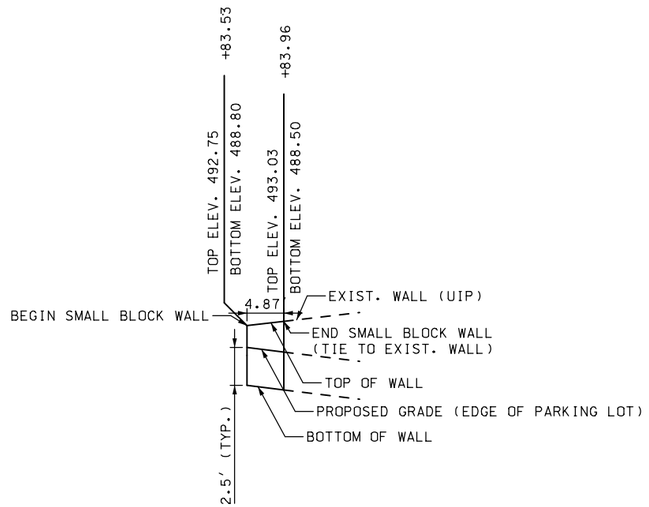




20 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 150+28.71 TO STA. 150+36.65

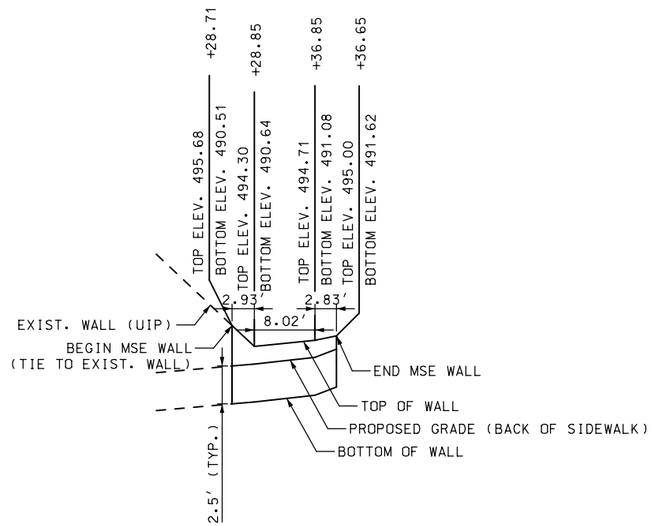




19 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



20 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
1/30/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 194
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

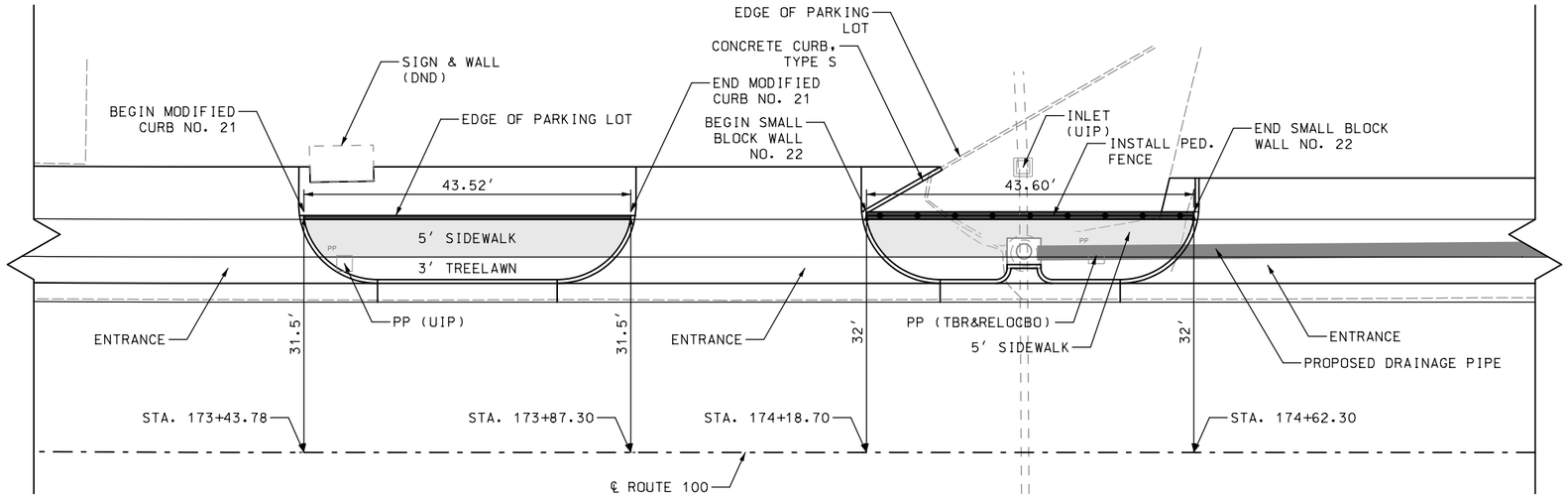
DESCRIPTION	DATE
.	.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 13 OF 40

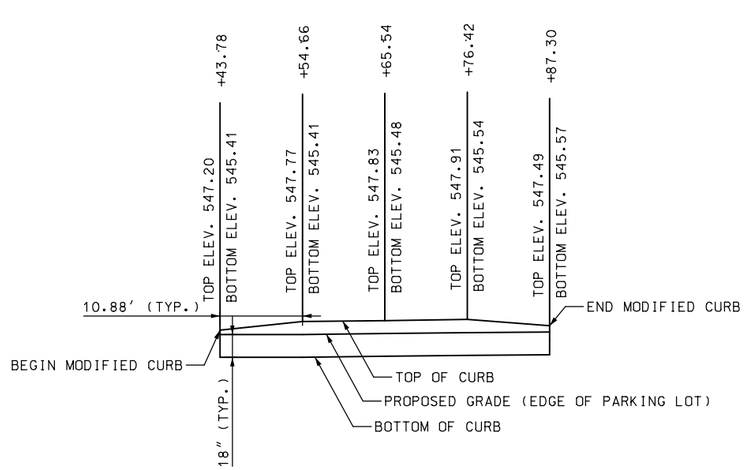
REV.



21 WALL PLAN VIEW
MODIFIED CURB
STA. 173+43.78 TO STA. 173+87.30

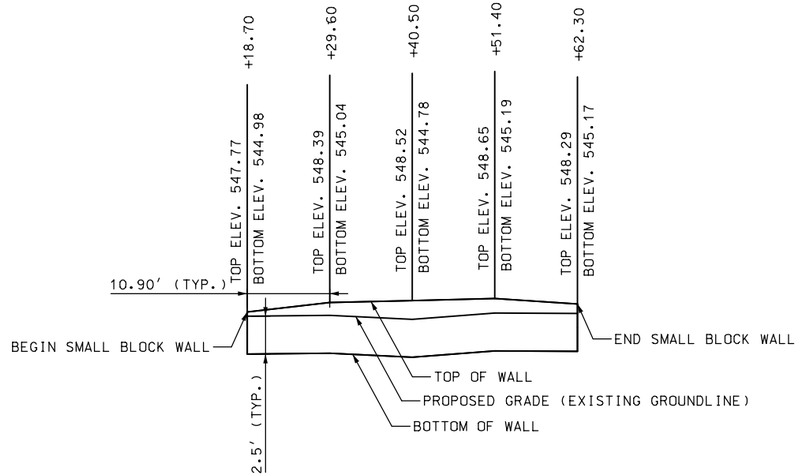
22 WALL PLAN VIEW
SMALL BLOCK WALL
STA. 174+18.70 TO STA. 174+62.30

SCALE
0 10 20 30



21 WALL PROFILE VIEW
MODIFIED CURB – FILL SECTION
(BACK FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



22 WALL PROFILE VIEW
SMALL BLOCK WALL – FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

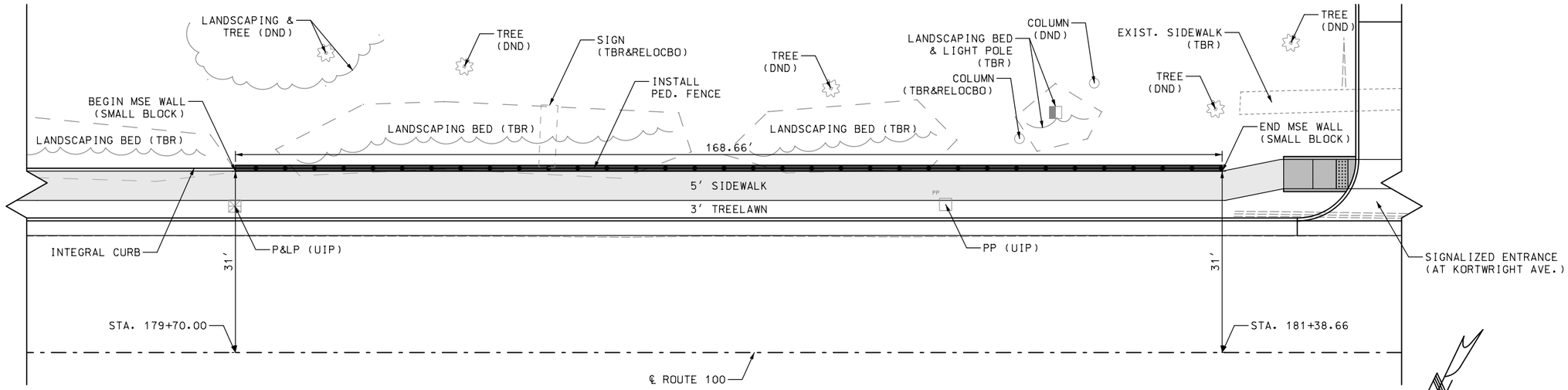
DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 195
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001528

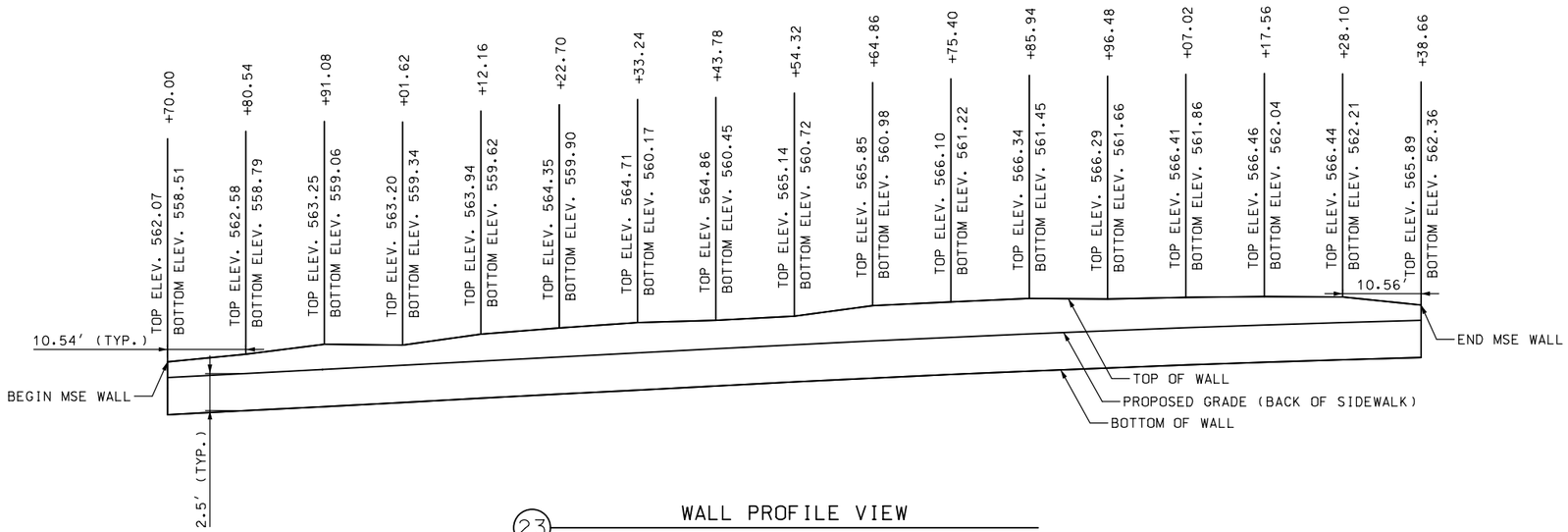
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 14 OF 40



23 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 179+70.00 TO STA. 181+38.66

SCALE
0 10 20 30



23 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 196
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

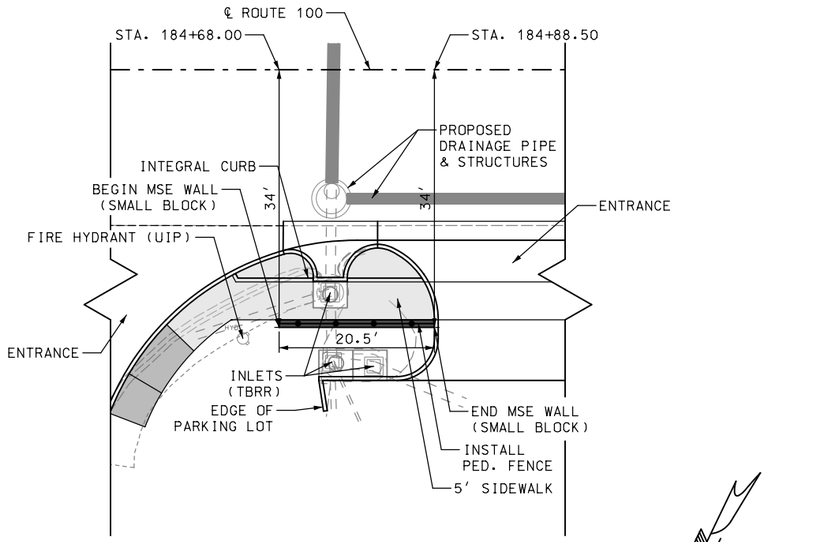
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1-888-ASK-MODOT (1-888-275-6636)

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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 15 OF 40

REV.

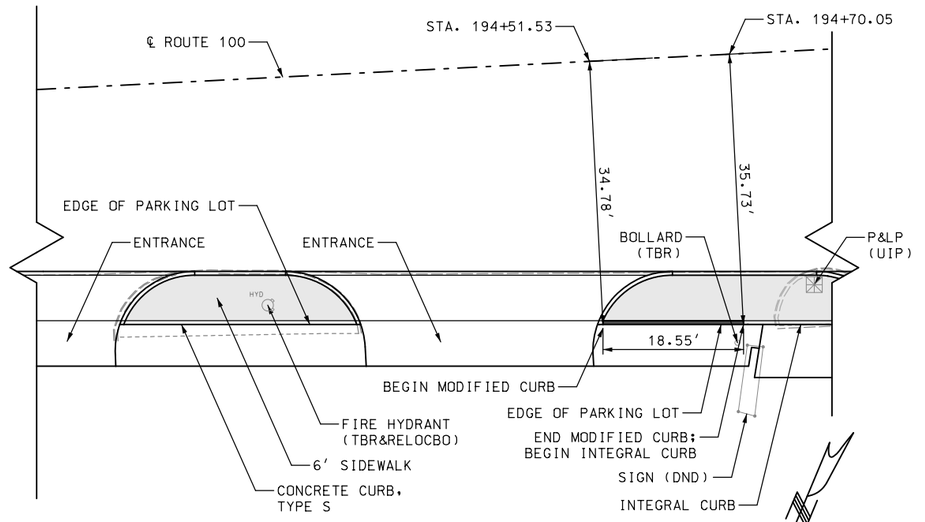
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24 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 184+68.00 TO STA. 184+88.50

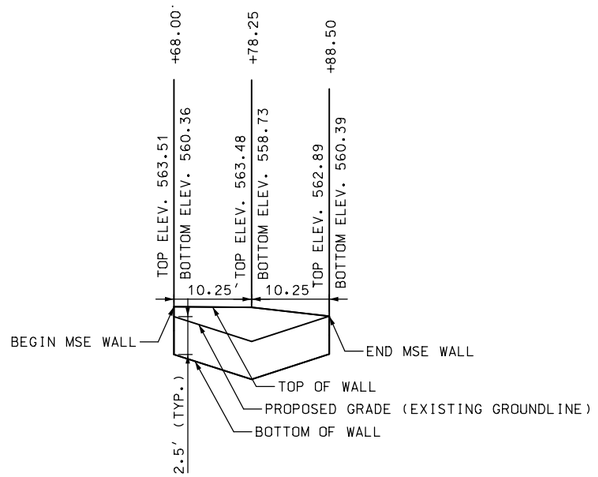
SCALE
0 10 20 30



25 WALL PLAN VIEW

MODIFIED CURB
STA. 194+51.53 TO STA. 194+70.05

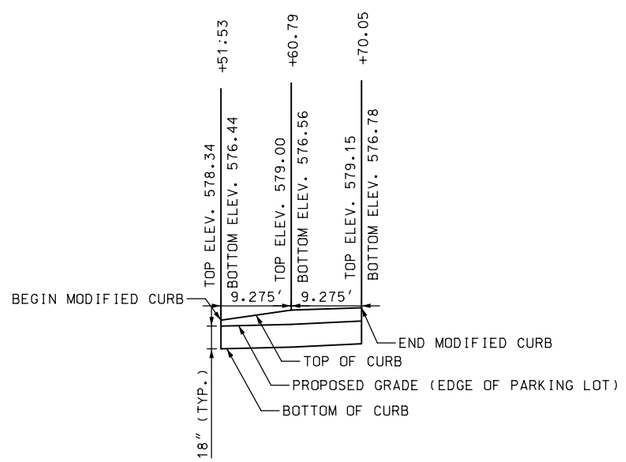
SCALE
0 10 20 30



24 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) – FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



25 WALL PROFILE VIEW

MODIFIED CURB – FILL SECTION
(BACK FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

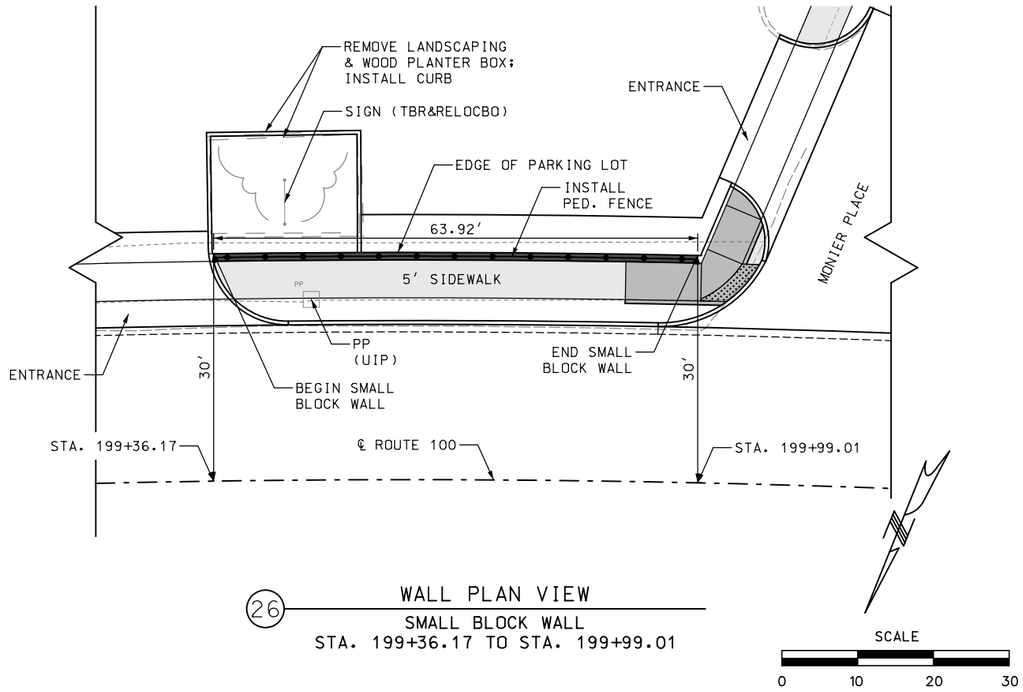
DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 197
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

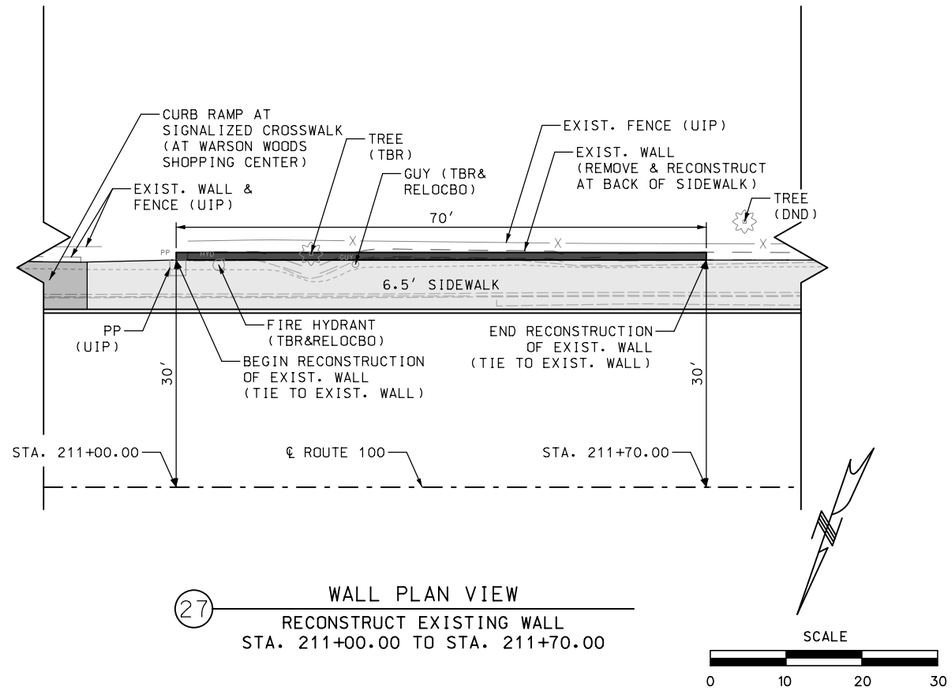
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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 16 OF 40



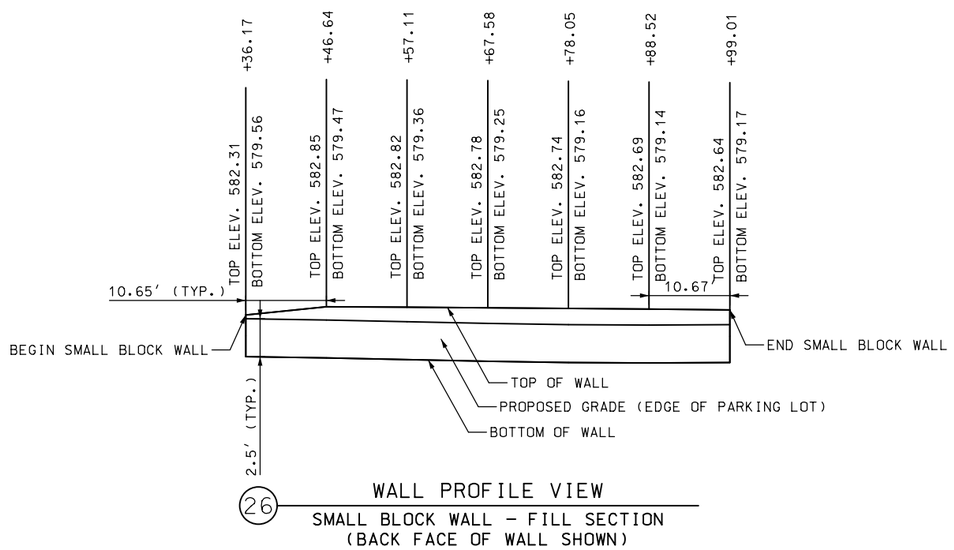
26 WALL PLAN VIEW

SMALL BLOCK WALL
STA. 199+36.17 TO STA. 199+99.01



27 WALL PLAN VIEW

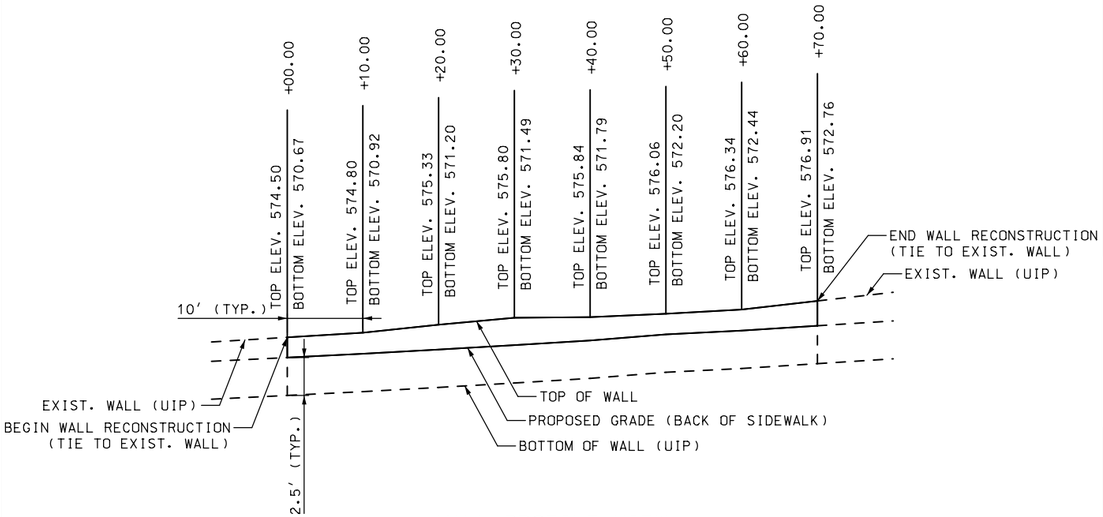
RECONSTRUCT EXISTING WALL
STA. 211+00.00 TO STA. 211+70.00



26 WALL PROFILE VIEW

SMALL BLOCK WALL - FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



27 WALL PROFILE VIEW

RECONSTRUCT EXISTING WALL
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
1/30/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	198

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
. . . . .	. . . . .

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

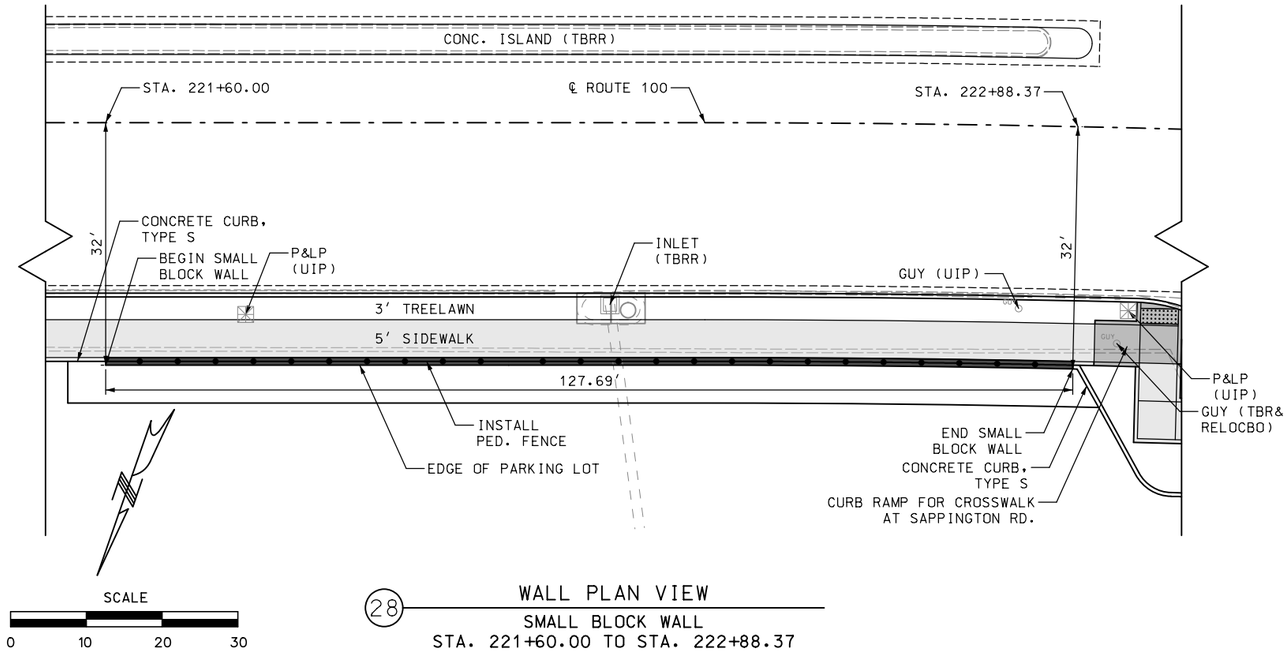
TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET

RETAINING WALL DETAILS

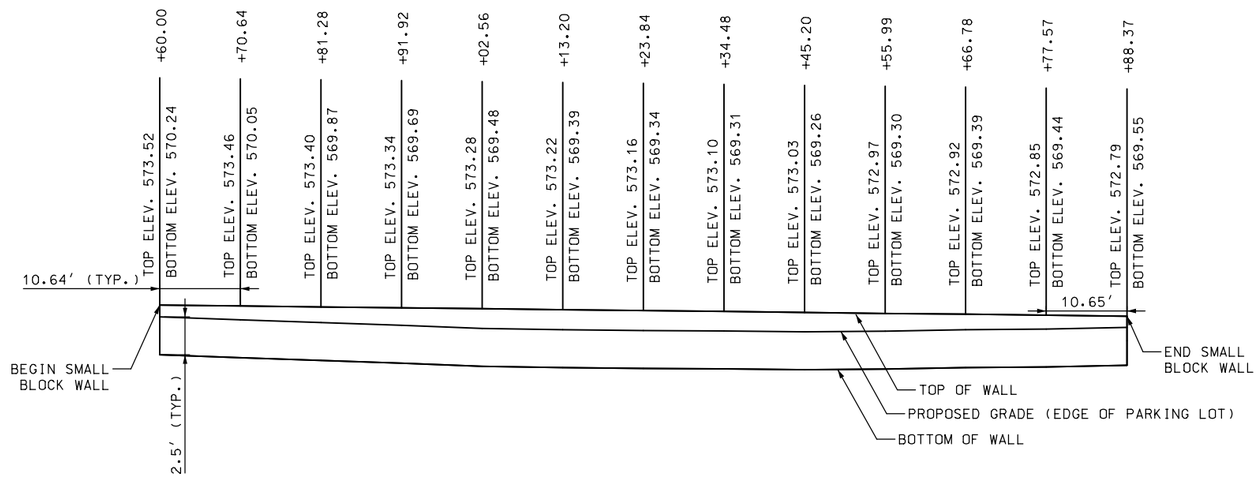
SHEET 1-7 OF 40

REV.



28 WALL PLAN VIEW

SMALL BLOCK WALL
STA. 221+60.00 TO STA. 222+88.37



28 WALL PROFILE VIEW

SMALL BLOCK WALL - FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: ALL WALL PROFILES SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 199
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

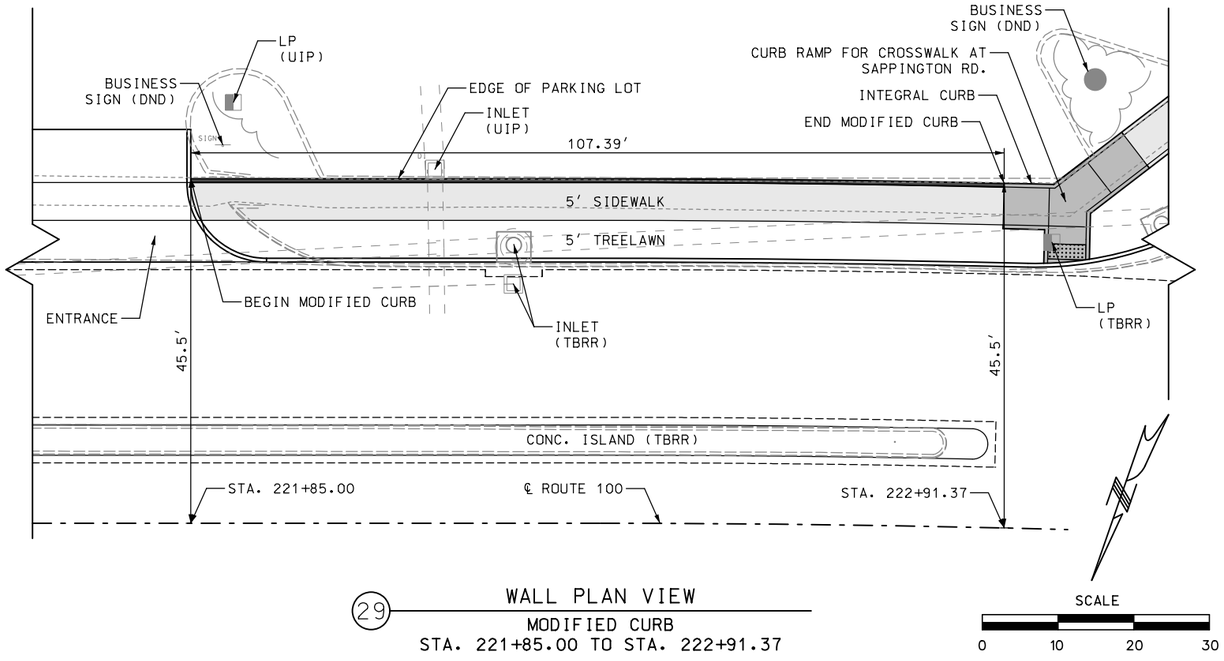
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 18 OF 40

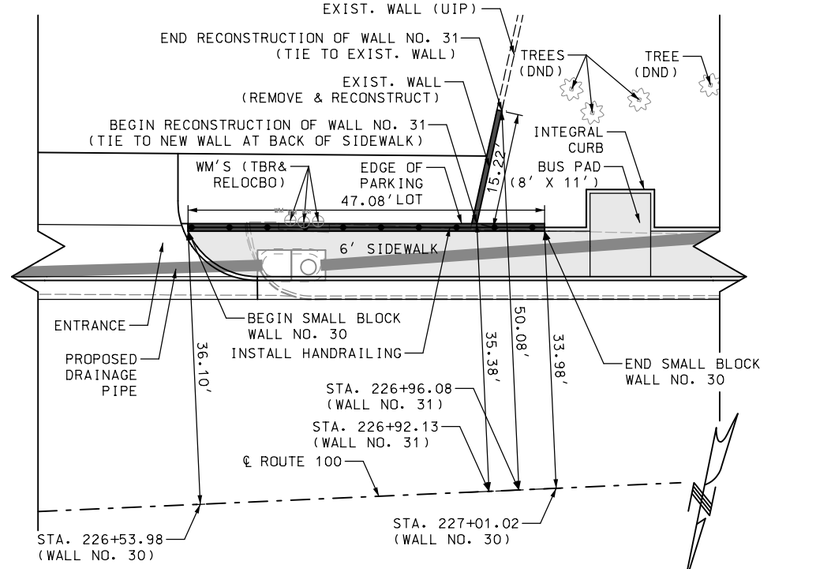
REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\199_SS_WD_18_J6S1718_110.dgn 12:35:39 PM 1/30/2020



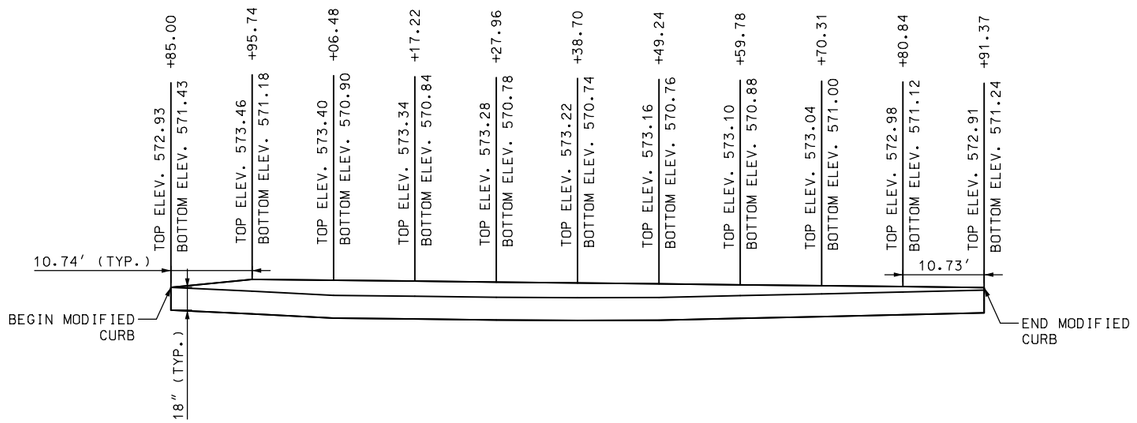
29 WALL PLAN VIEW

MODIFIED CURB
STA. 221+85.00 TO STA. 222+91.37



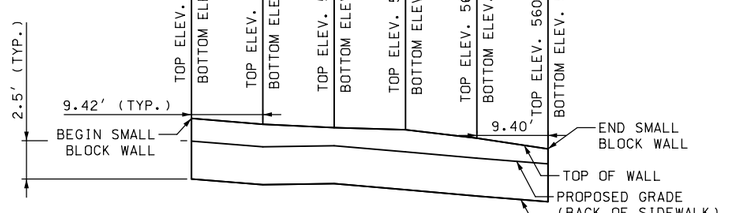
30 31 WALL PLAN VIEW

SMALL BLOCK WALL NO. 30
STA. 226+53.98 TO STA. 227+01.02
RECONSTRUCT EXISTING WALL NO. 31
STA. 226+92.13 TO STA. 226+96.08



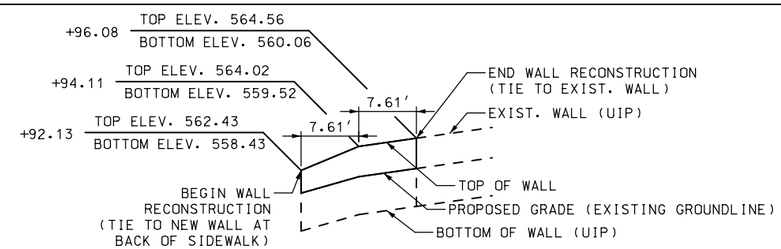
29 WALL PROFILE VIEW

MODIFIED CURB - FILL SECTION
(BACK FACE OF CURB SHOWN)



30 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)



31 WALL PROFILE VIEW

RECONSTRUCT EXISTING WALL
(FRONT FACE OF WALL SHOWN)

NOTE: ALL WALL PROFILES SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 3/10/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 200
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

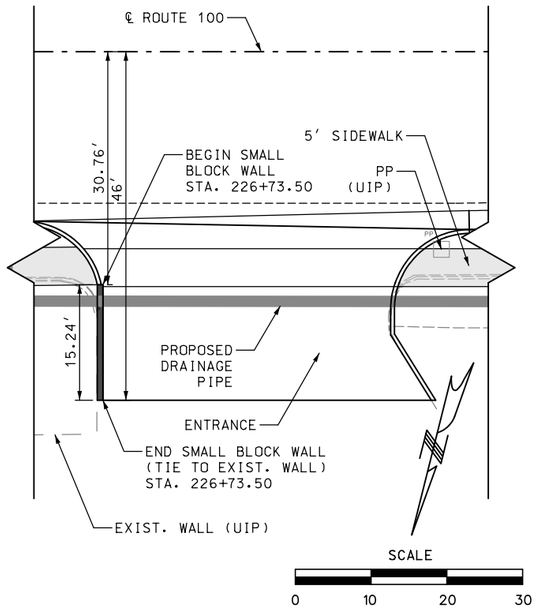
DESCRIPTION	DATE
.	.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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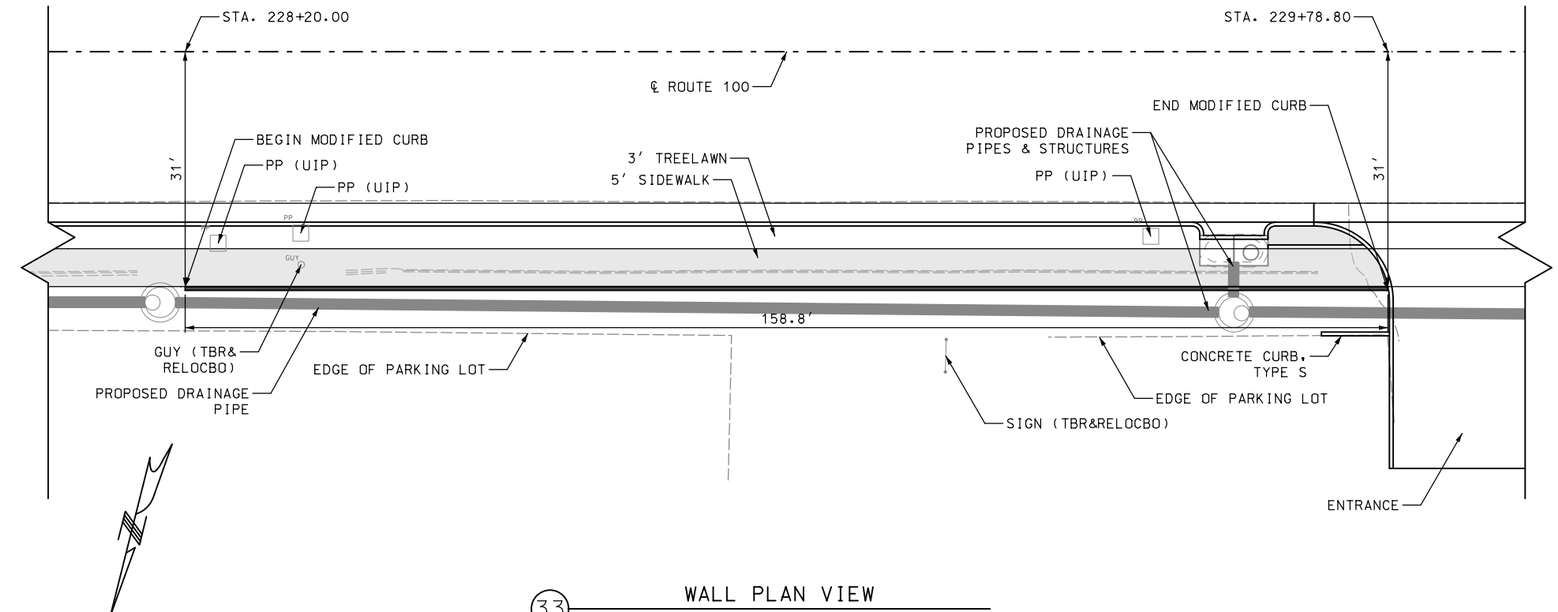
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 19 OF 40

REV. .



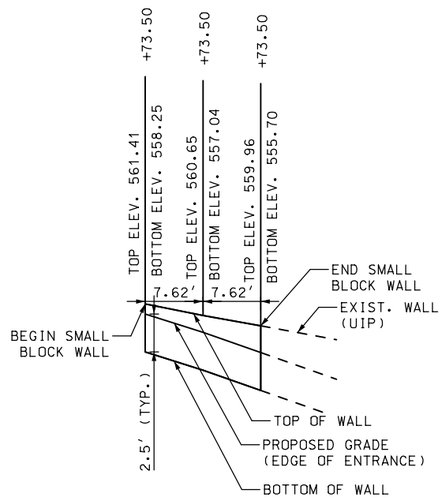
32 WALL PLAN VIEW

SMALL BLOCK WALL
AT STA. 226+73.50



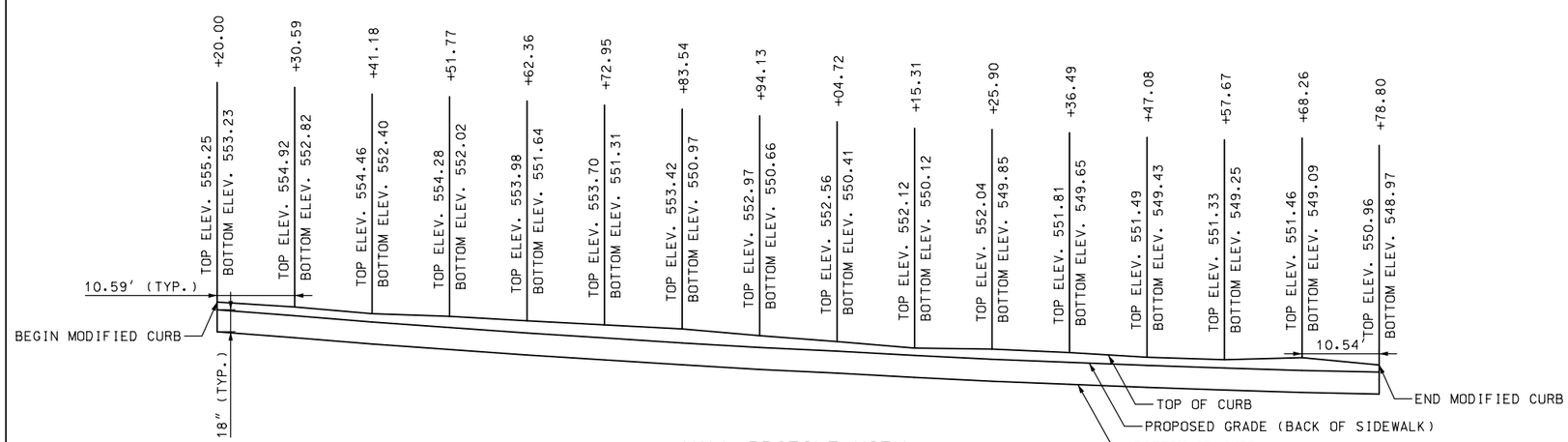
33 WALL PLAN VIEW

MODIFIED CURB
STA. 228+20.00 TO STA. 229+78.80



32 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)



33 WALL PROFILE VIEW

MODIFIED CURB - CUT SECTION
(FRONT FACE OF CURB SHOWN)

NOTE: ALL WALL PROFILES SHOWN AT A 2:1 VERTICAL EXAGGERATION

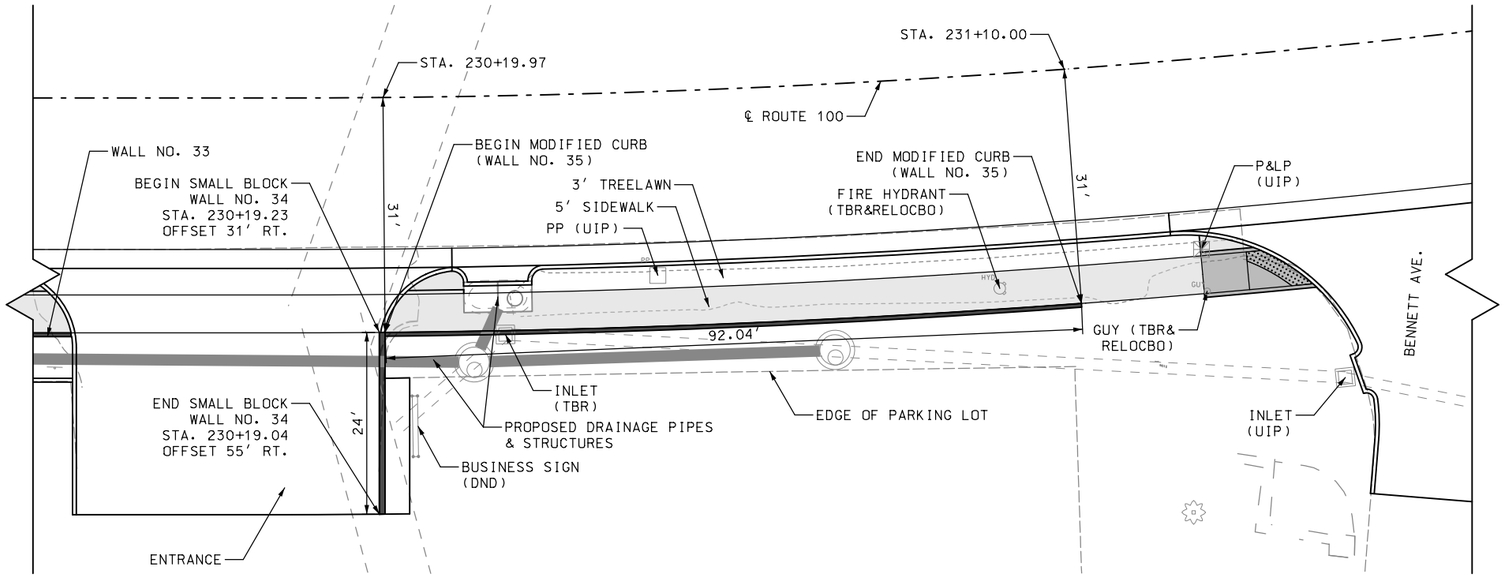
DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 201
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

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JEFFERSON CITY, MO 65102
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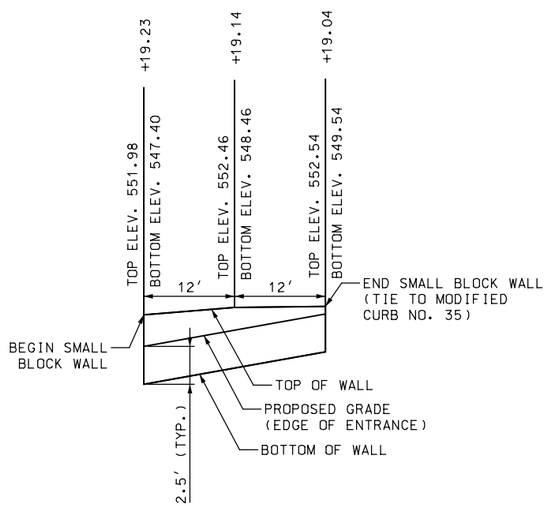
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 20 OF 40



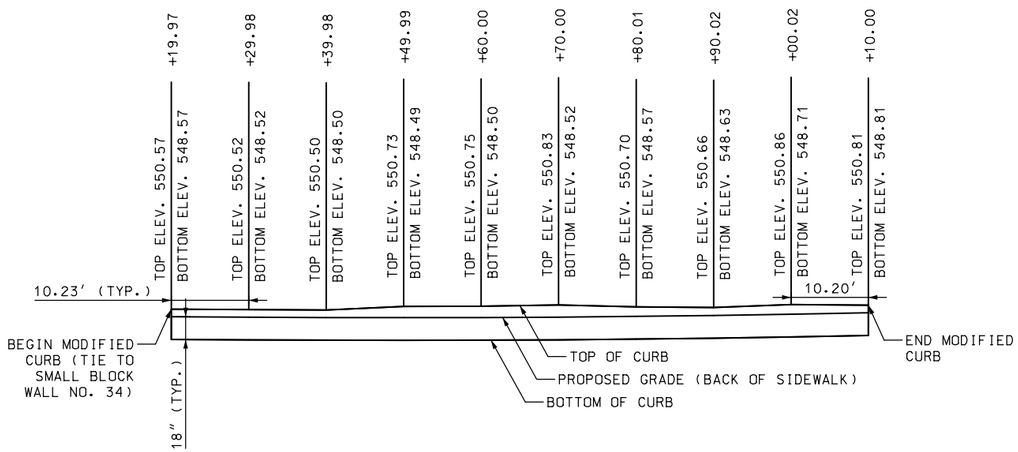
34 WALL PLAN VIEW
SMALL BLOCK WALL
STA. 230+19.23 TO STA. 230+19.04

35 WALL PLAN VIEW
MODIFIED CURB
STA. 230+19.97 TO STA. 231+10.00

SCALE
0 10 20 30



34 WALL PROFILE VIEW
SMALL BLOCK WALL – CUT SECTION
(FRONT FACE OF WALL SHOWN)



35 WALL PROFILE VIEW
MODIFIED CURB – CUT SECTION
(FRONT FACE OF CURB SHOWN)

NOTE: ALL WALL PROFILES SHOWN AT A 2:1 VERTICAL EXAGGERATION

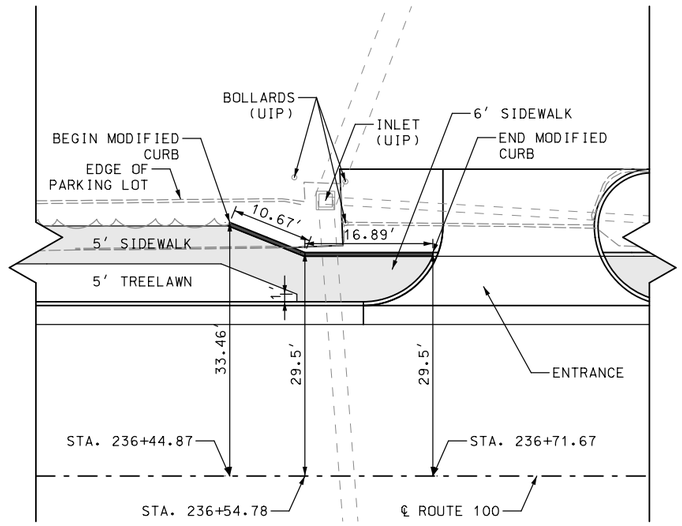
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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 202
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

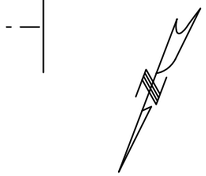
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001538

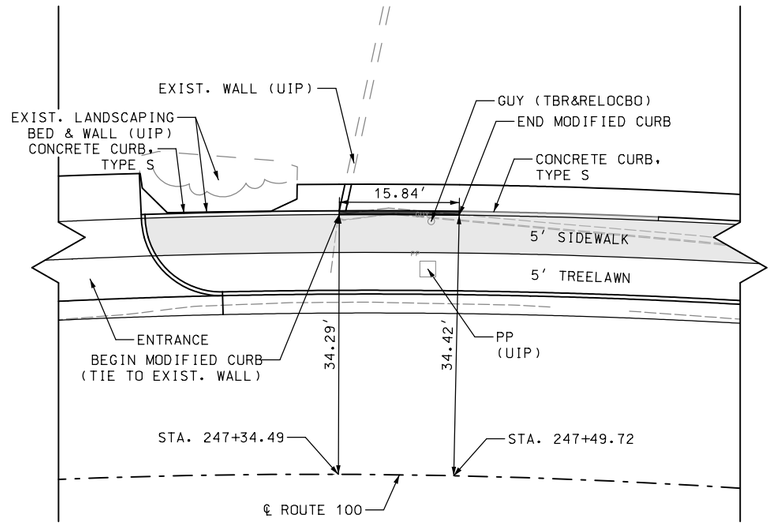
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 21 OF 40

REV.

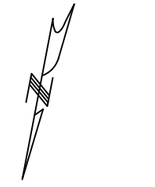


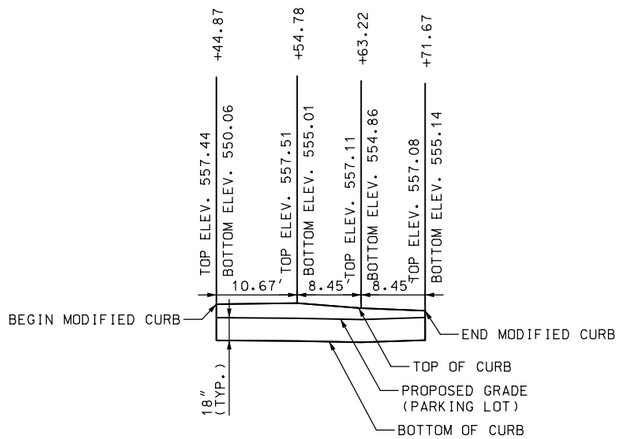
36 WALL PLAN VIEW
MODIFIED CURB
STA. 236+44.87 TO STA. 236+71.67





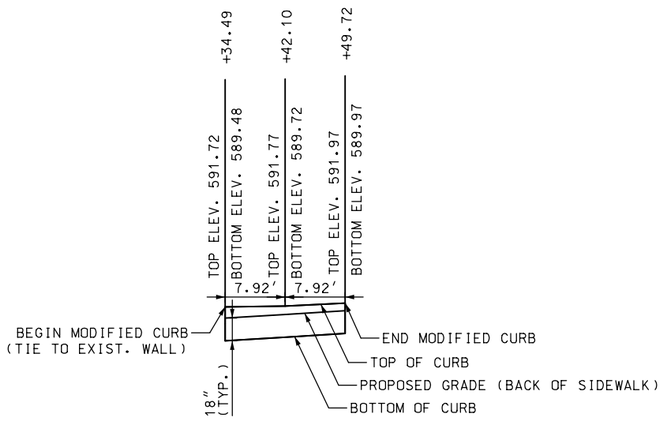
37 WALL PLAN VIEW
MODIFIED CURB
STA. 247+34.49 TO STA. 247+49.72





36 WALL PROFILE VIEW
MODIFIED CURB - FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



37 WALL PROFILE VIEW
MODIFIED CURB - CUT SECTION
(FRONT FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/31/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 203
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

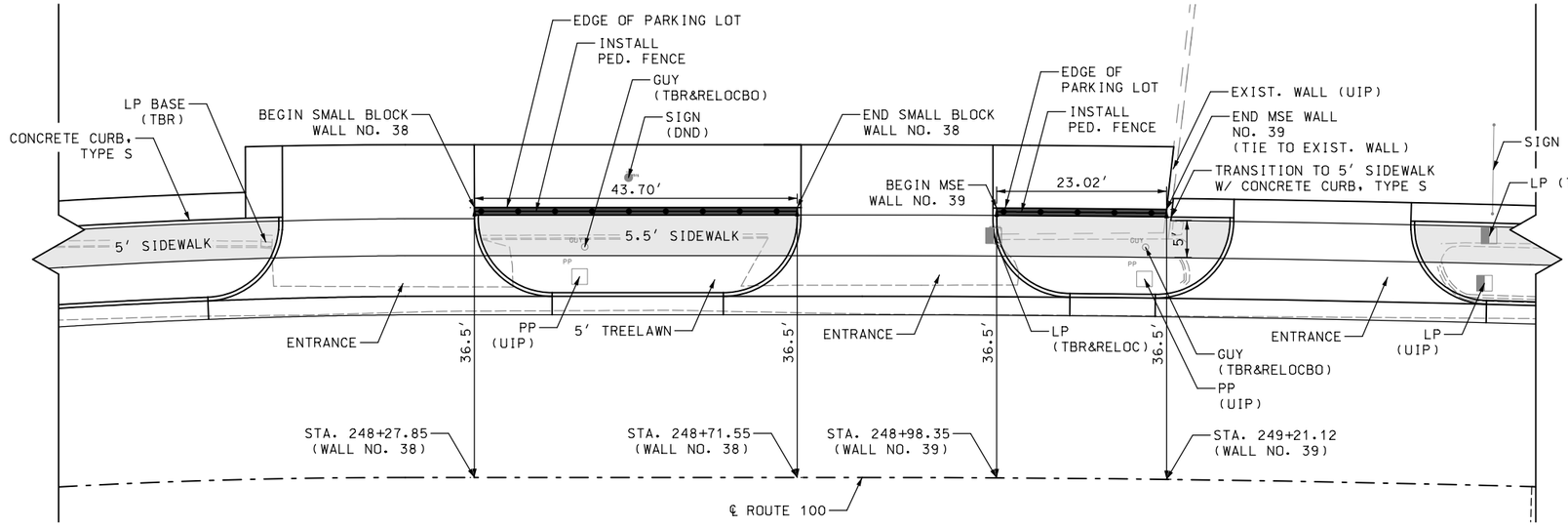
DESCRIPTION	DATE
.	.

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105 WEST CAPITOL
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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 22 OF 40

REV.



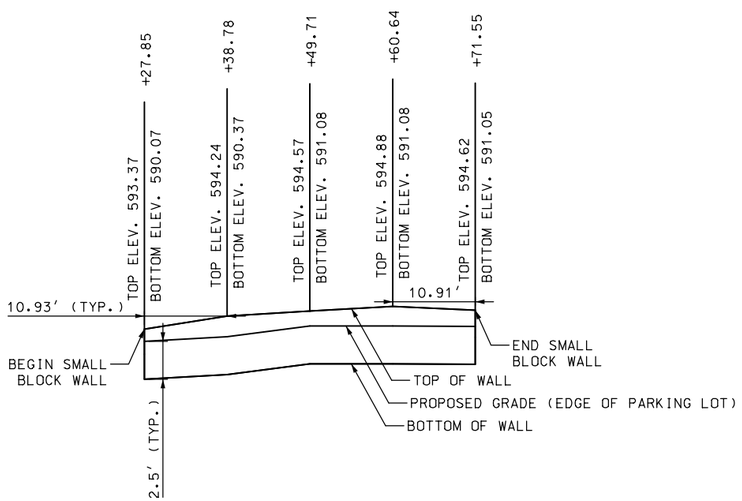
38 WALL PLAN VIEW

SMALL BLOCK WALL
STA. 248+27.85 TO STA. 248+71.55

39 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 248+98.35 TO STA. 249+21.12

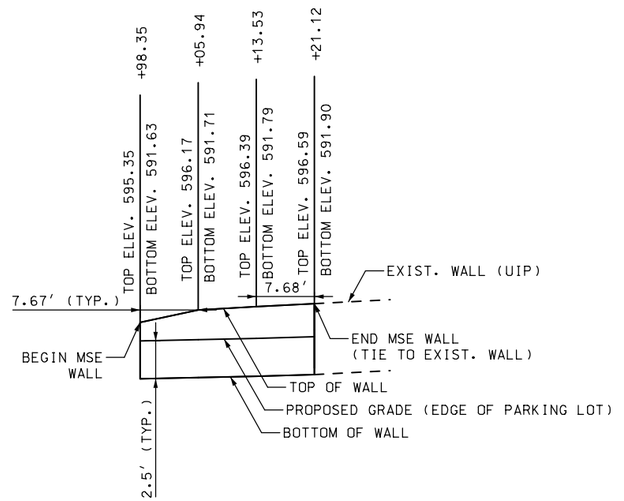
SCALE
0 10 20 30



38 WALL PROFILE VIEW

SMALL BLOCK WALL - FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



39 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) - FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/31/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 204
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

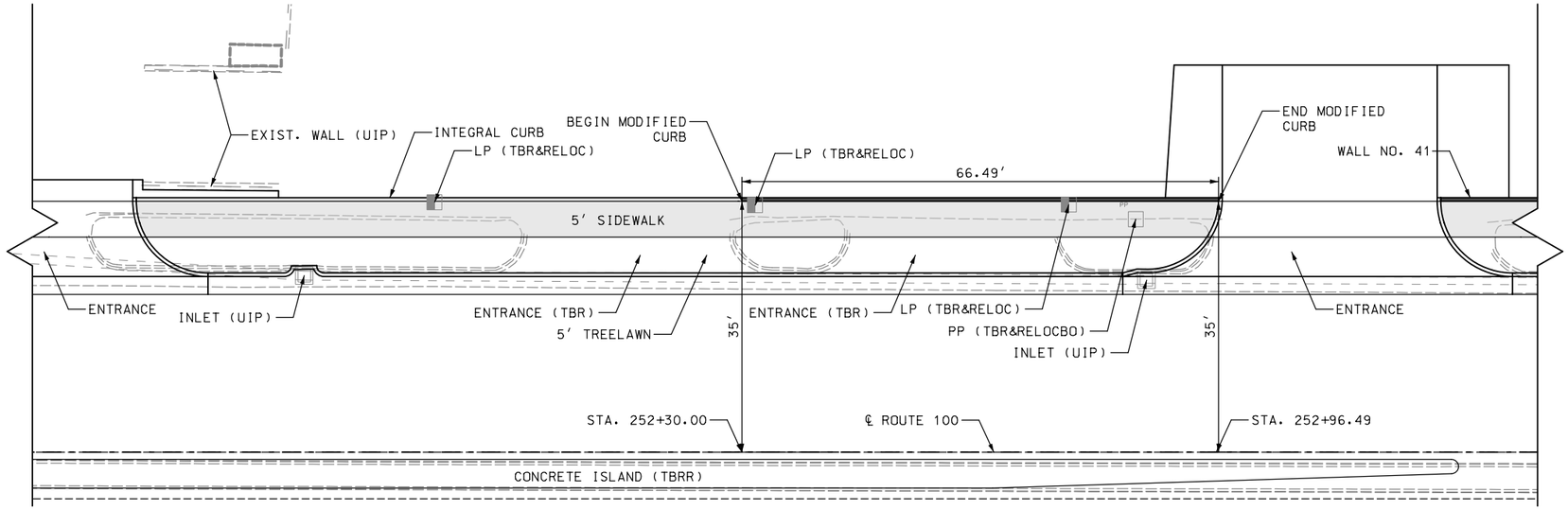
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 23 OF 40

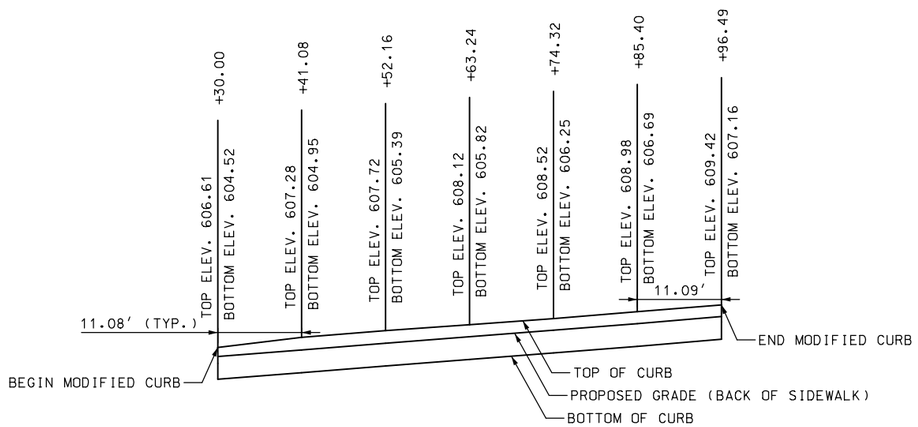
REV.



40 WALL PLAN VIEW

MODIFIED CURB
STA. 252+30.00 TO STA. 252+96.49

SCALE
0 10 20 30



40 WALL PROFILE VIEW

MODIFIED CURB – CUT SECTION
(FRONT FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 205
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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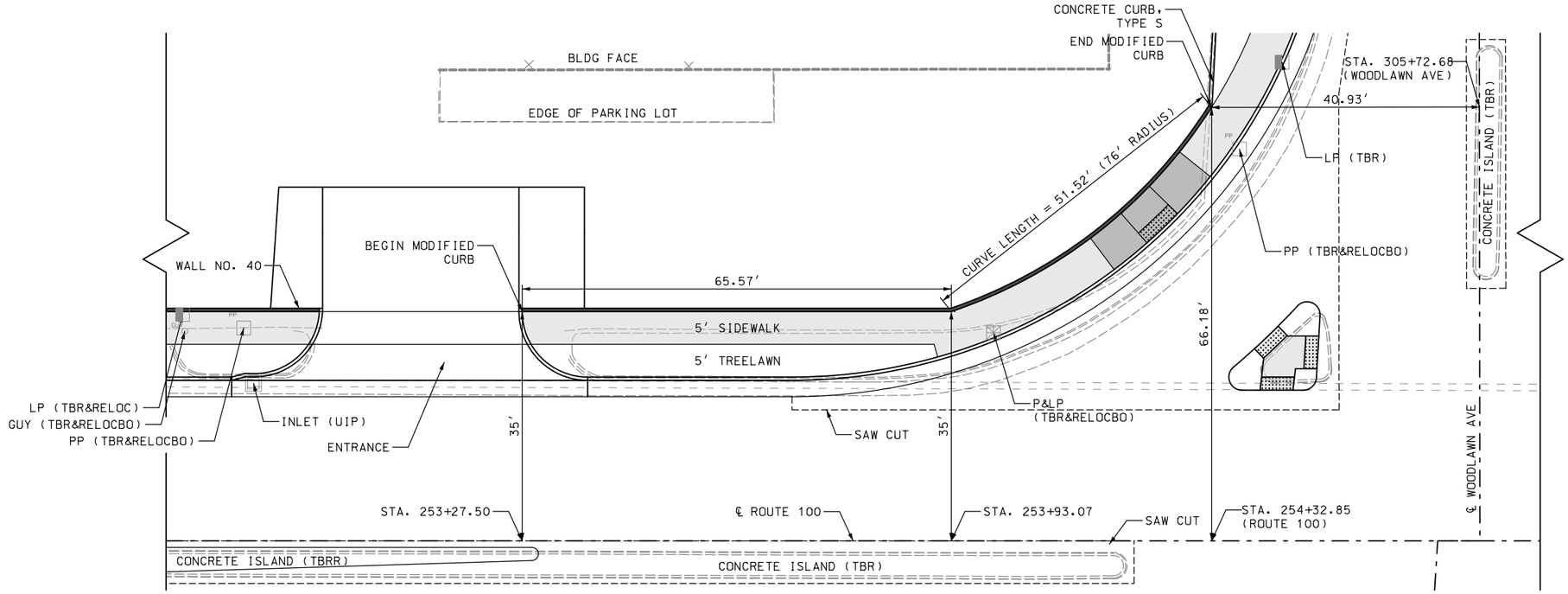
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 24 OF 40

REV.

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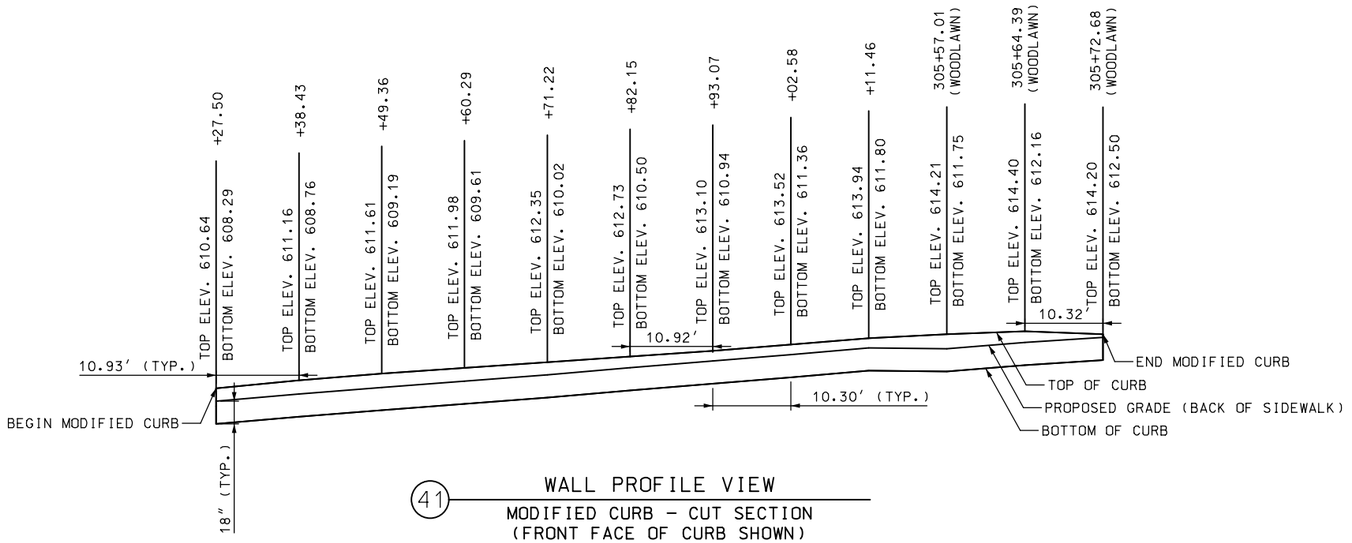


41 WALL PLAN VIEW

MODIFIED CURB

STA. 253+27.50 TO STA. 305+72.68 (WOODLAWN AVE)
(= STA. 254+32.85 ROUTE 100)

SCALE
0 10 20 30



41 WALL PROFILE VIEW

MODIFIED CURB - CUT SECTION
(FRONT FACE OF CURB SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/31/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 206
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

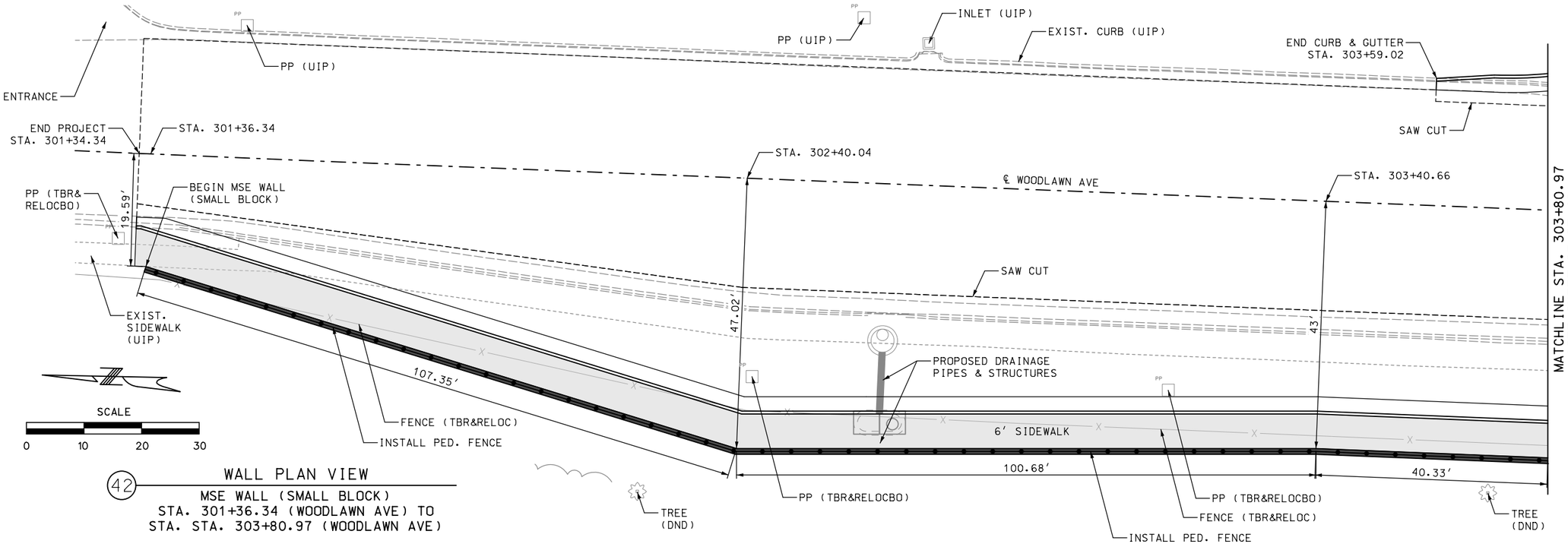
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

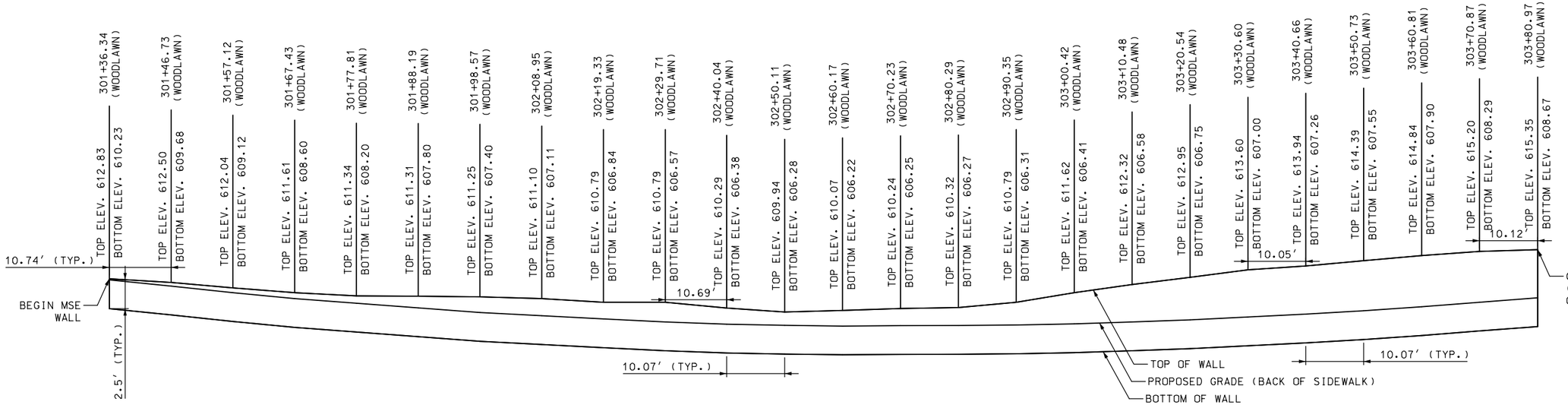
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 25 OF 40

REV.



42 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 301+36.34 (WOODLAWN AVE) TO
STA. STA. 303+80.97 (WOODLAWN AVE)



42 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 2/3/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 207
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

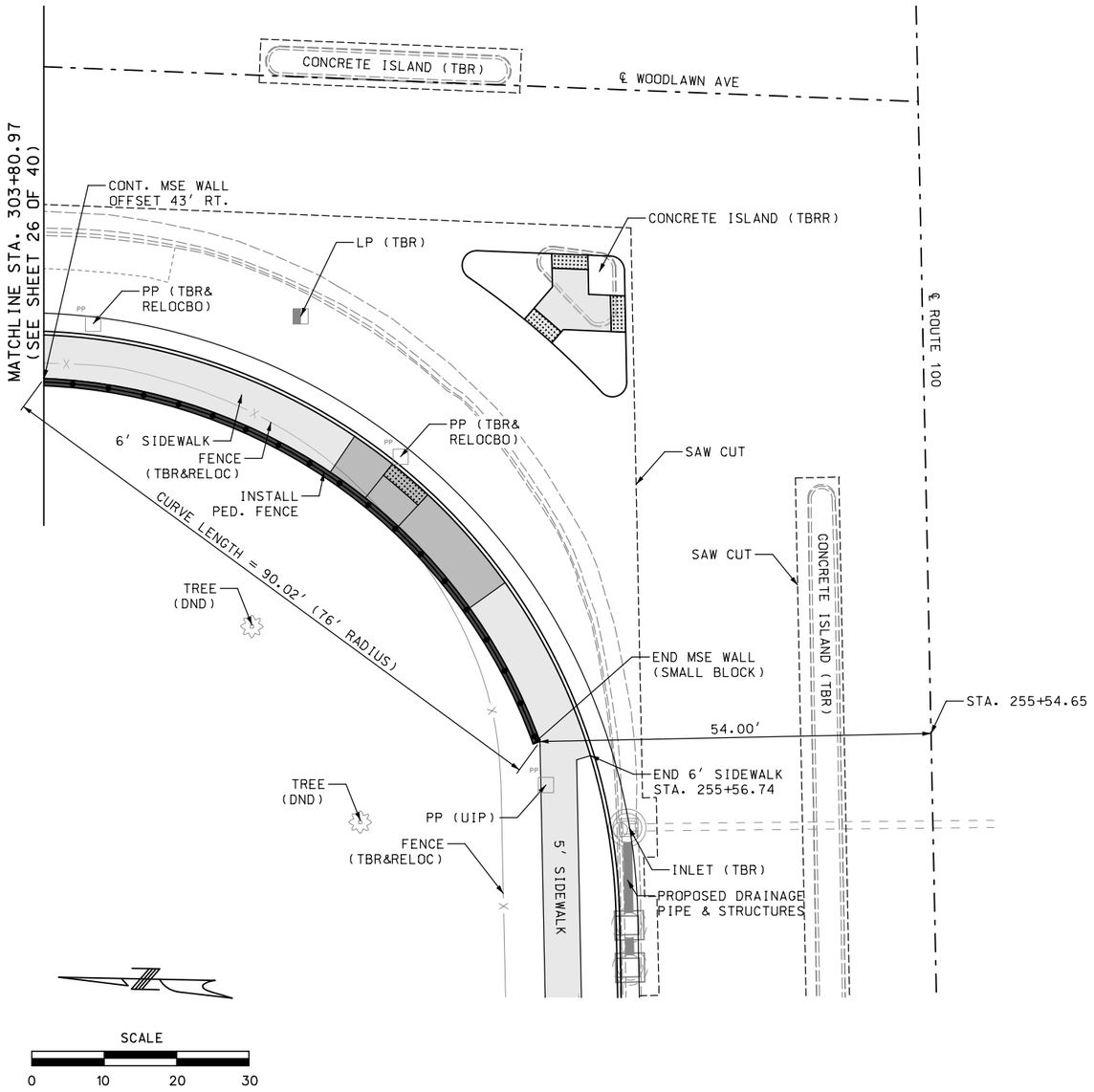
DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
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MISSOURI CERT. OF AUTHORITY: 001528

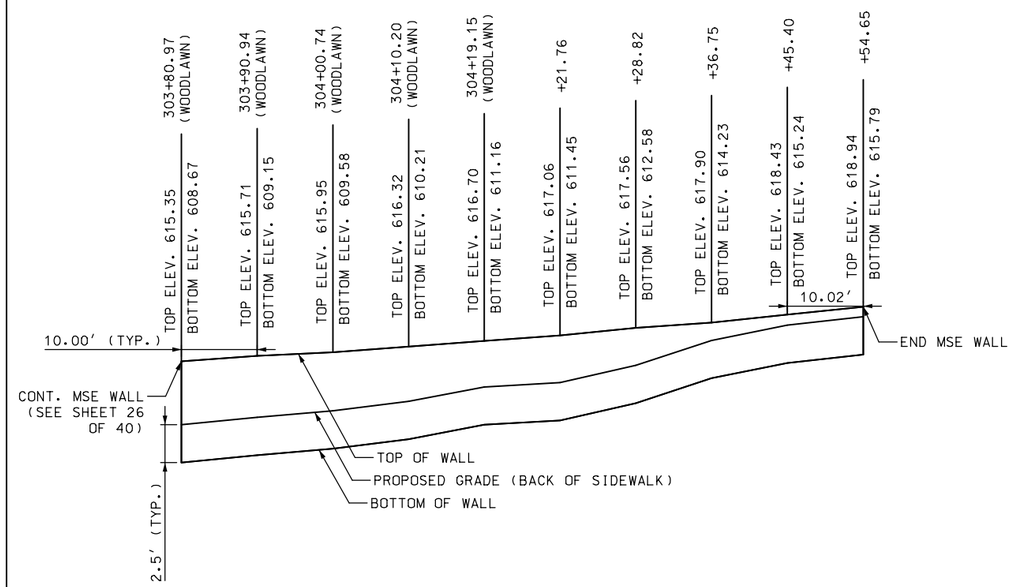
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 26 OF 40

REV.



42 WALL PLAN VIEW CONT.

MSE WALL (SMALL BLOCK)
STA. STA. 303+80.97 (WOODLAWN AVE)
TO STA. 255+54.65 (ROUTE 100)



42 WALL PROFILE VIEW CONT.

MSE WALL (SMALL BLOCK) - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	208

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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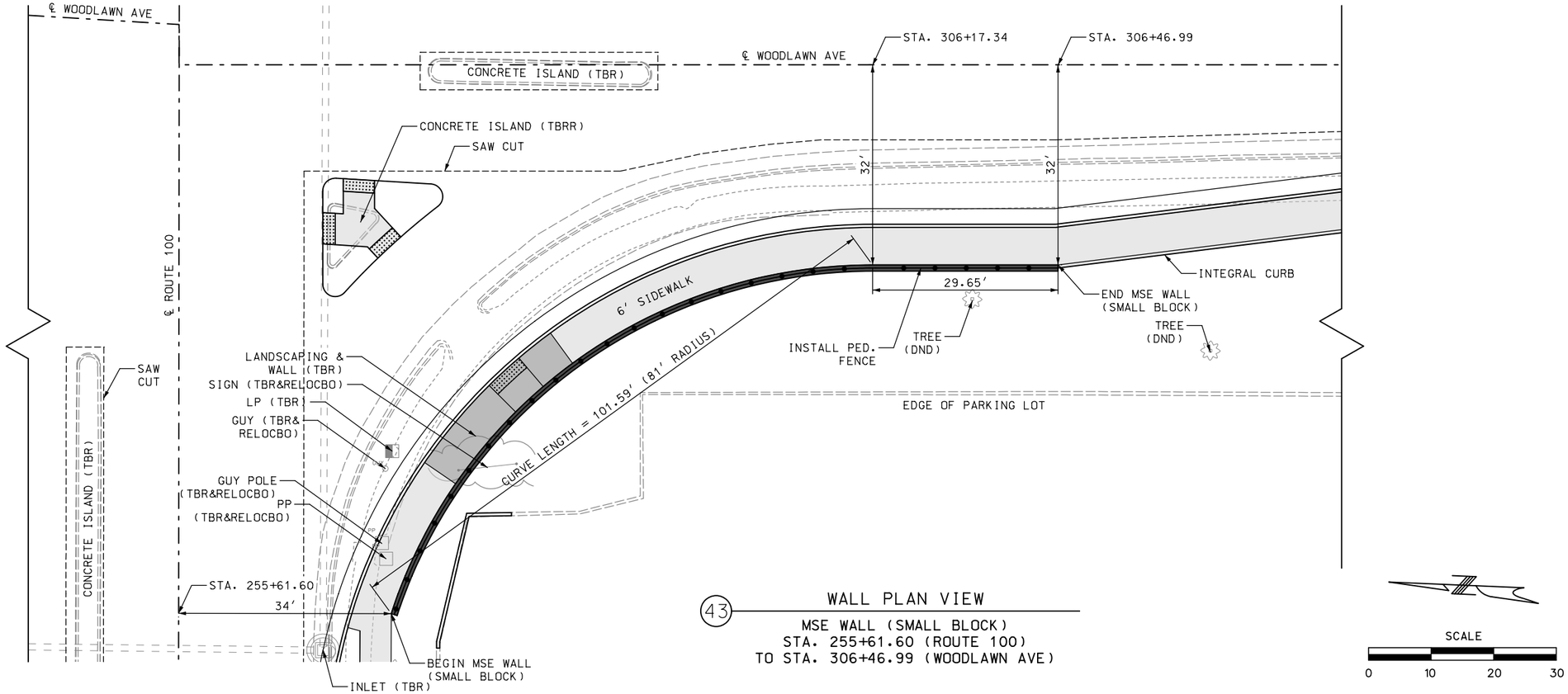
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SPECIAL SHEET

RETAINING WALL DETAILS

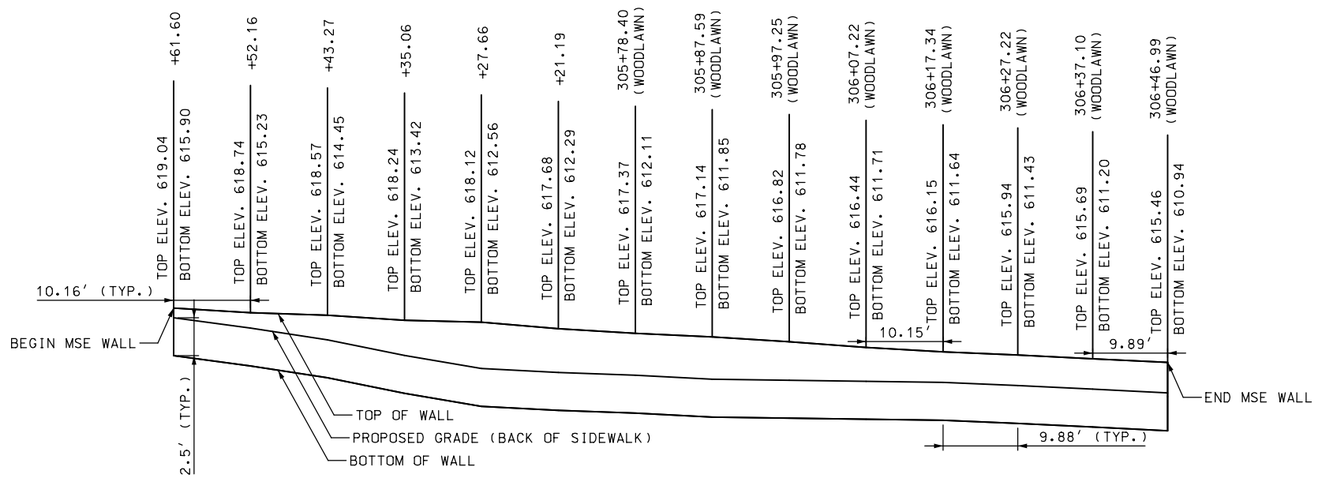
SHEET 27 OF 40

REV.



43 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 255+61.60 (ROUTE 100)
TO STA. 306+46.99 (WOODLAWN AVE)



43 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) – CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 2/3/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 209
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

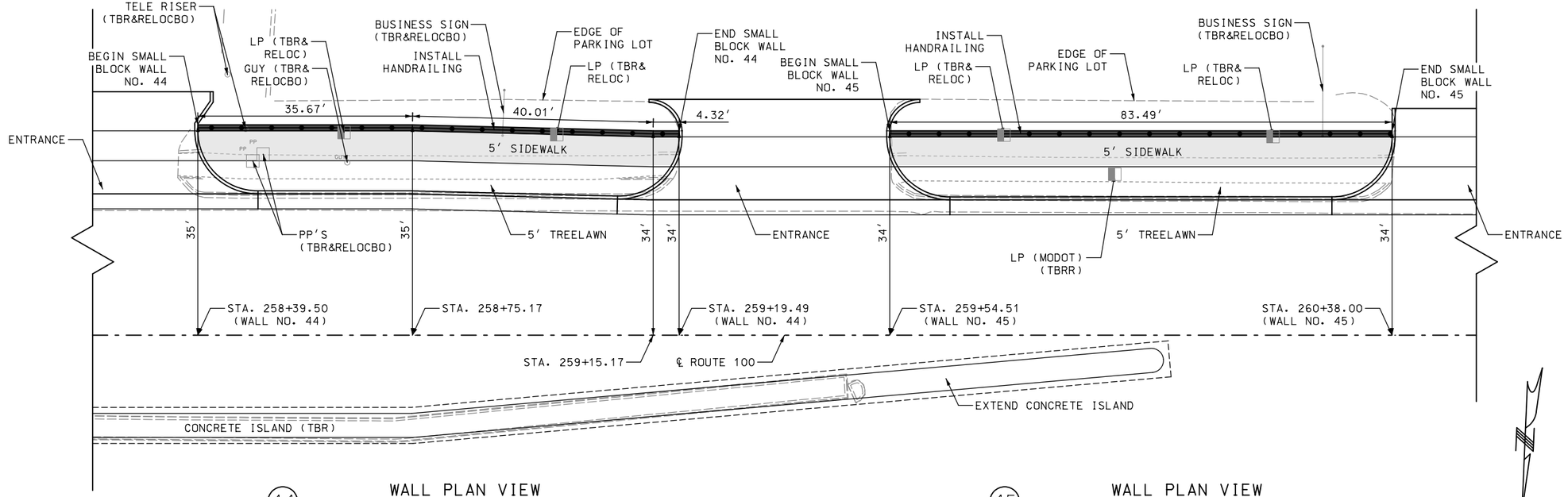
DATE	DESCRIPTION
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JEFFERSON CITY, MO 65102
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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 28 OF 40

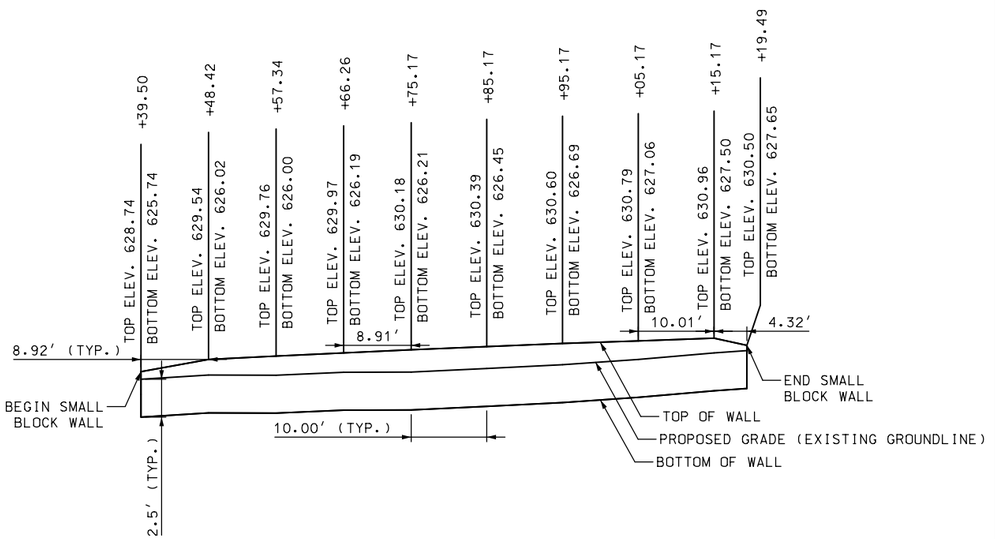
REV.



44 WALL PLAN VIEW
SMALL BLOCK WALL
STA. 258+39.50 TO STA. 259+19.49

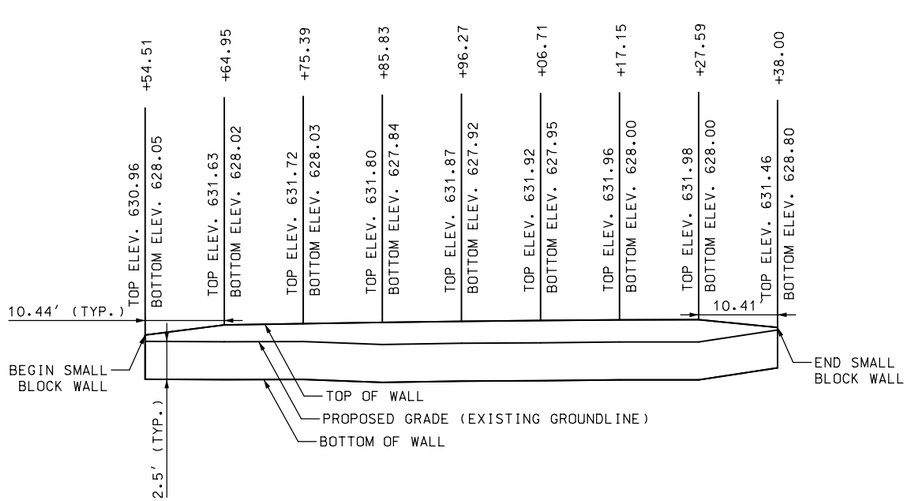
45 WALL PLAN VIEW
SMALL BLOCK WALL
STA. 259+54.51 TO STA. 260+38.00

SCALE
0 10 20 30



44 WALL PROFILE VIEW
SMALL BLOCK WALL – FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION



45 WALL PROFILE VIEW
SMALL BLOCK WALL – FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

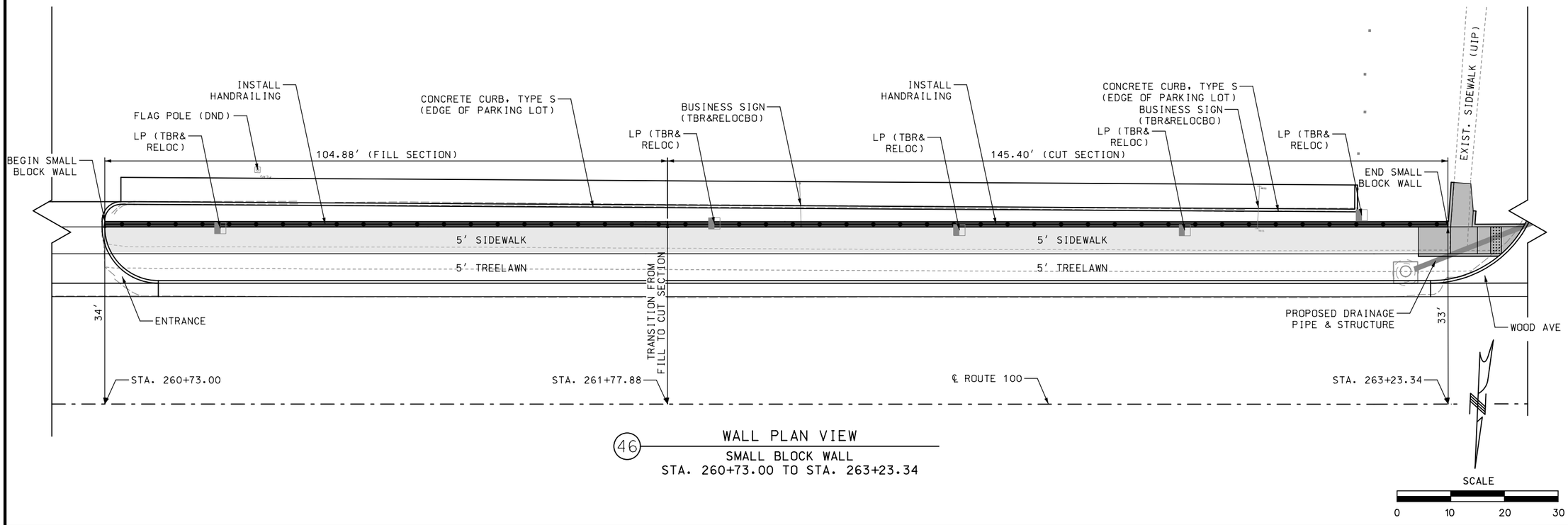
DATE PREPARED 3/10/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 210
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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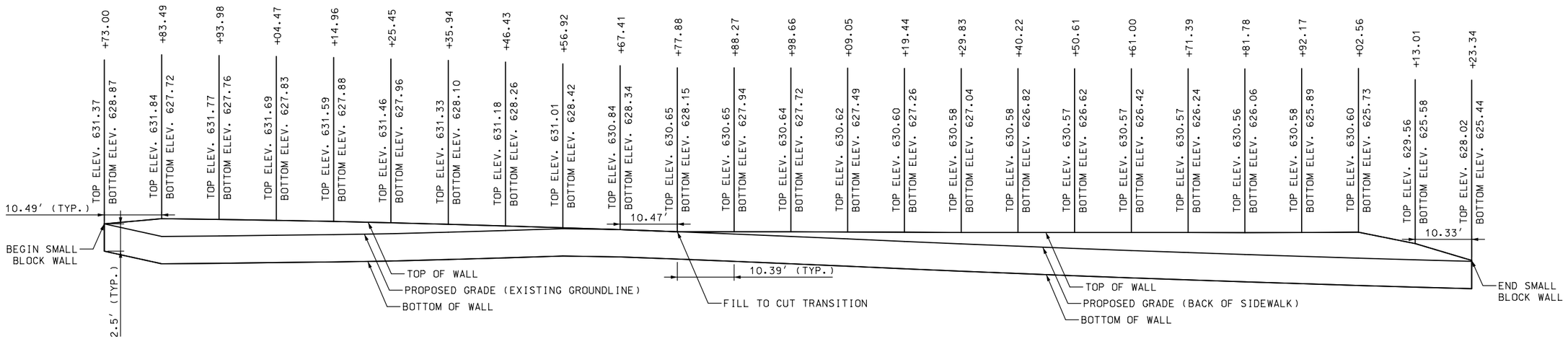
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 29 OF 40

REV. •



46 WALL PLAN VIEW

SMALL BLOCK WALL
STA. 260+73.00 TO STA. 263+23.34



46 WALL PROFILE VIEW

SMALL BLOCK WALL
FILL SECTION - STA. 260+73.00 TO STA. 261+77.88
(BACK FACE OF WALL SHOWN - OFFSET 34' LT.)
CUT SECTION - STA. 261+77.88 TO STA. 263+23.34
(FRONT FACE OF WALL SHOWN - OFFSET 33' LT.)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 3/10/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 211
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

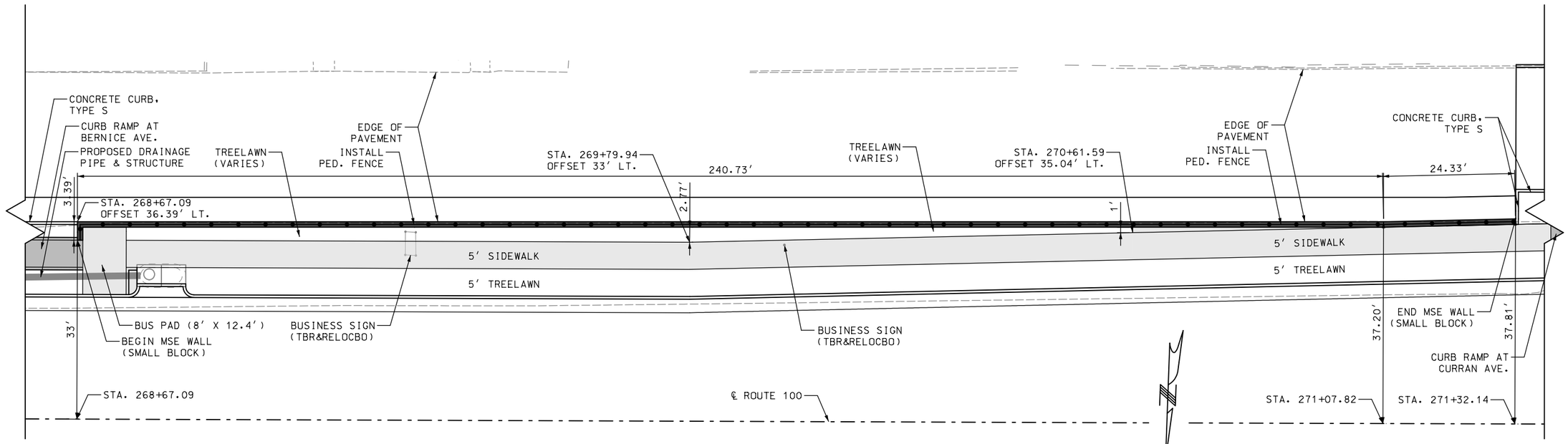
DESCRIPTION | DATE | REV.

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JEFFERSON CITY, MO 65102
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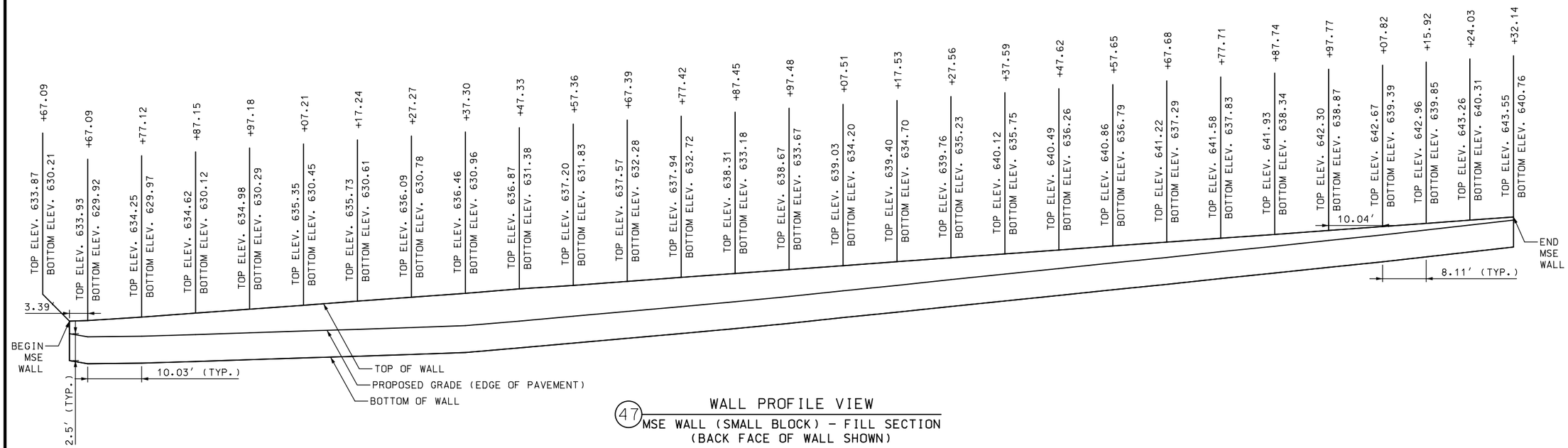
SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 30 OF 40

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47 WALL PLAN VIEW

MSE WALL (SMALL BLOCK)
STA. 268+67.09 TO STA. 271+32.14



47 WALL PROFILE VIEW

MSE WALL (SMALL BLOCK) - FILL SECTION
(BACK FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 1/30/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 212
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

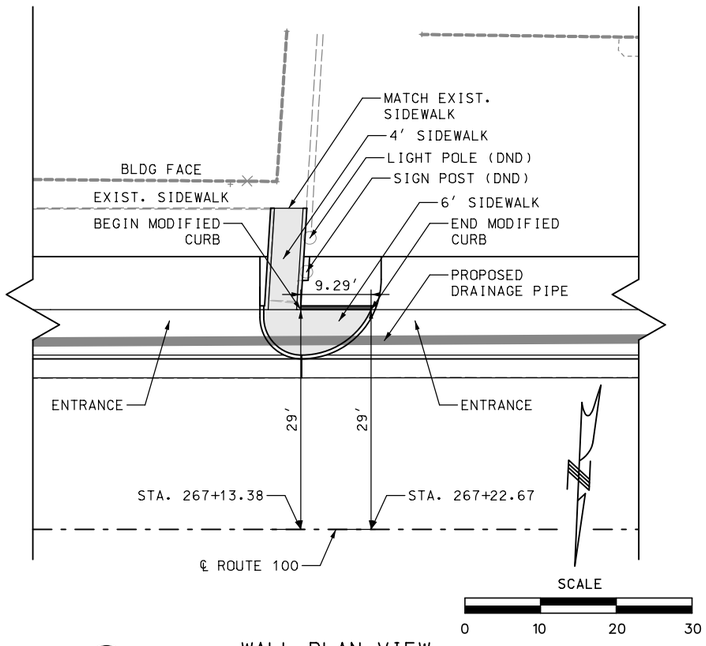
DESCRIPTION | DATE

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JEFFERSON CITY, MO 65102
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SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 31 OF 40

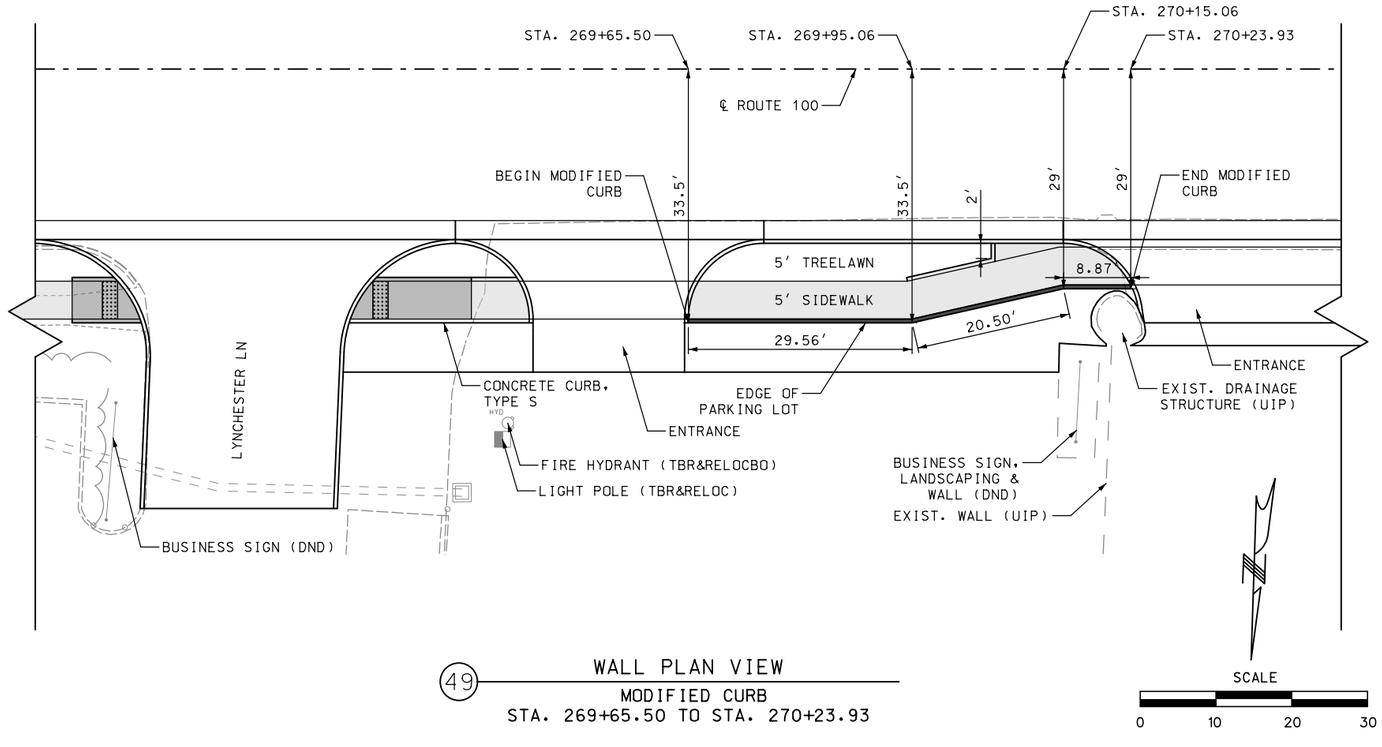
REV.



48 WALL PLAN VIEW

MODIFIED CURB

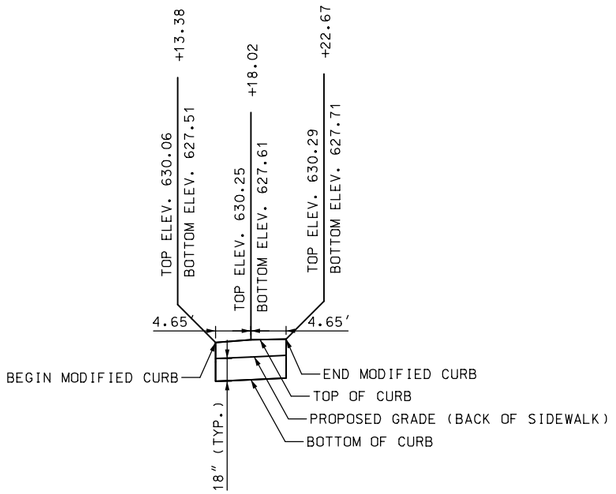
STA. 267+13.38 TO STA. 267+22.67



49 WALL PLAN VIEW

MODIFIED CURB

STA. 269+65.50 TO STA. 270+23.93

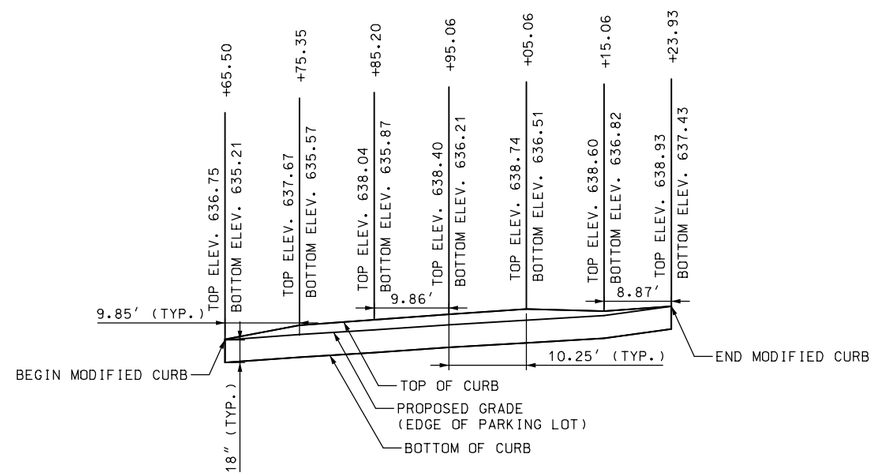


48 WALL PROFILE VIEW

MODIFIED CURB - CUT SECTION

(FRONT FACE OF CURB SHOWN)

NOTE: ALL WALL PROFILES SHOWN AT A 2:1 VERTICAL EXAGGERATION



49 WALL PROFILE VIEW

MODIFIED CURB - FILL SECTION

(BACK FACE OF WALL SHOWN)

DATE PREPARED 2/1/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 213

COUNTY ST. LOUIS

JOB NO. J6S1718/J6S1718C

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

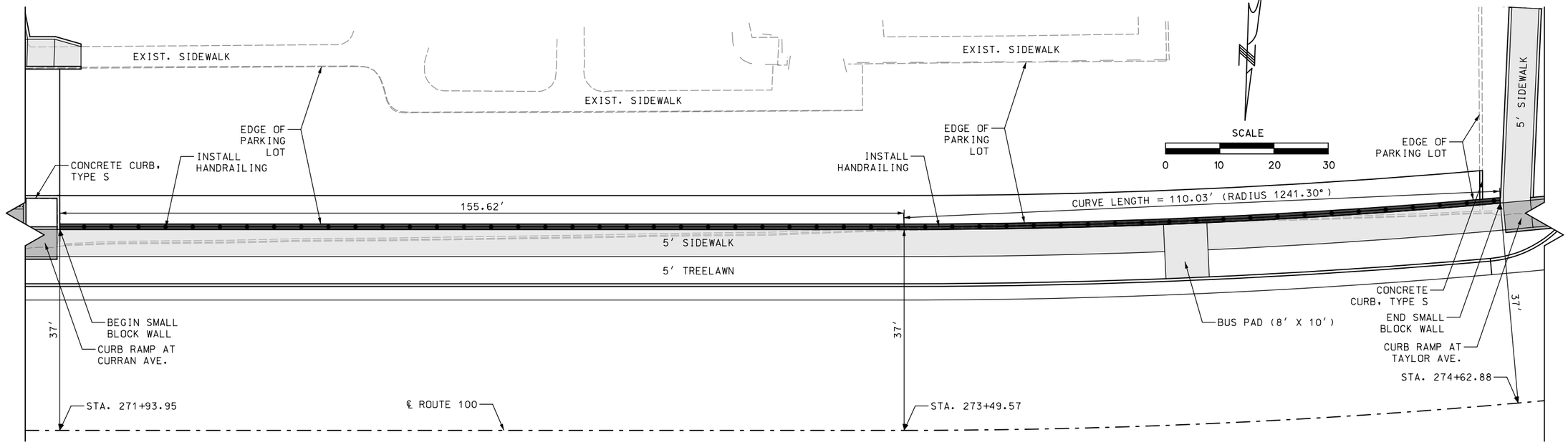
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SPECIAL SHEET

RETAINING WALL DETAILS

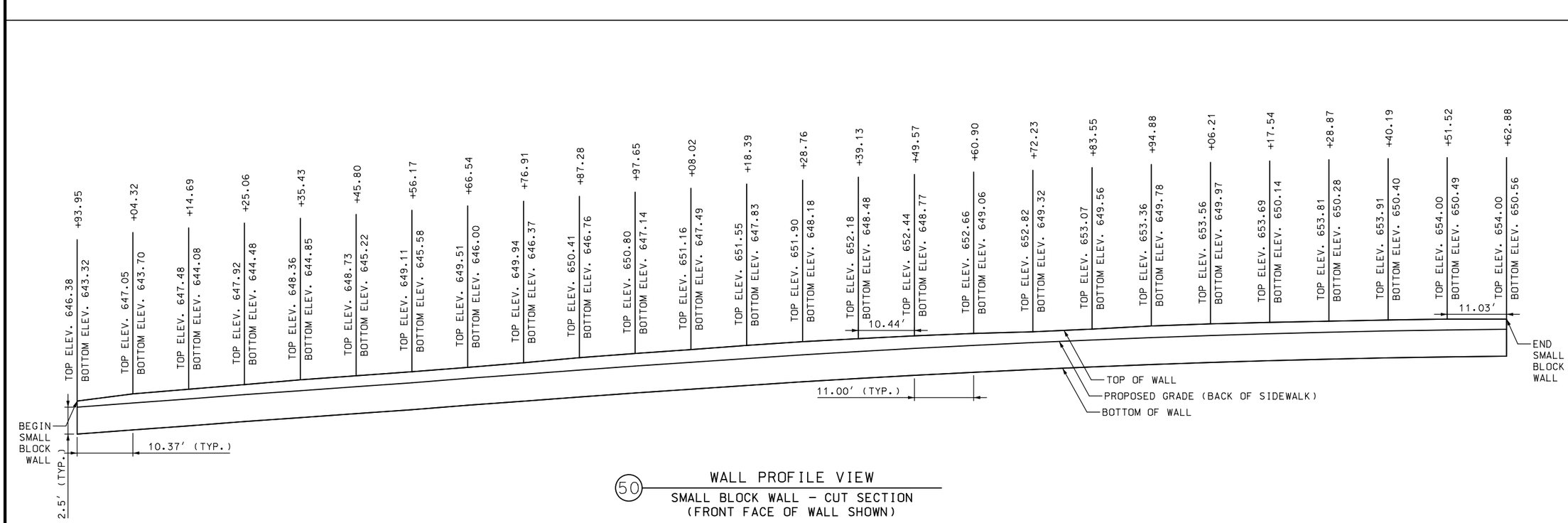
SHEET 32 OF 40

REV.



50 WALL PLAN VIEW

SMALL BLOCK WALL
STA. 271+93.95 TO STA. 274+62.88



50 WALL PROFILE VIEW

SMALL BLOCK WALL - CUT SECTION
(FRONT FACE OF WALL SHOWN)

NOTE: WALL PROFILE SHOWN AT A 2:1 VERTICAL EXAGGERATION

DATE PREPARED 3/10/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 214
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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RETAINING WALL DETAILS
SHEET 33 OF 40

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DATE PREPARED
2/3/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	215

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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SPECIAL SHEET

RETAINING WALL DETAILS

SHEET 34 OF 40

BORING LOCATIONS

BORE HOLE NO.	NORTHING	EASTING	ELEVATION (FT)
B-01	1011822.410	864354.035	449.68
B-02	1011912.406	864392.741	448.71
B-03	1011786.311	864327.192	449.25
B-04	1011790.266	864347.089	449.60
B-05	1011744.591	864317.826	448.39
B-06	1011737.508	864335.852	448.81
B-07	1011939.232	864409.086	449.36
B-08	1011925.583	864421.758	448.75
B-09	1011991.297	864471.556	449.97
B-10	1011981.933	864452.430	450.51

NOTE: NORTHING AND EASTING COORDINATES ARE IN MODIFIED STATE PLANE COORDINATES.

GEOTECHNICAL OVERVIEW:

SOFT SOILS: TO REMEDIATE FOR SOFT SOILS, PLANS SHOW OVEREXCAVATION TO ELEVATION 433 WITHIN LIMITS OF TUNNEL (FROM STAGE LINE TO 6' BEYOND SOUTH END OF TUNNEL, AND 8' BEYOND BACK OF TUNNEL WALLS SOUTH OF HTE STAGE LINE) AND WITHIN THE LIMITS OF WALLS 4 & 5 (FACE OF BLOCK TO BACK OF REINFORCEMENT) THAT BEAR BELOW ELEVATION 435.

EXPANSIVE SOILS: REMOVE FAT CLAYS TO 1' BELOW ROGERS PARKWAY BASE ROCK. REPLACE WITH LOW-PLASTICITY (LP) MATERIAL BELOW BASE ROCK.

BEDROCK: BORINGS DO NOT INDICATE ROCK WILL BE FOUND WHEN EXCAVATING TO ELEVATION 433. IF EXCAVATION FOR TUNNEL FOOTINGS ENCOUNTERS ROCK, ROCK SHALL BE REMOVED TO 1' BELOW PLANNED BOTTOM OF FOOTING WIDE ENOUGH TO PROVIDE ROOM FOR HTE INSTALLATION OF A BOND BREAK WITH THE SIDES OF THE FOOTING EXCAVATION. OVEREXCAVATION SHALL BE BACKFILLED WITH COMPACTED, COHESIVE SOIL.

GROUNDWATER: GROUNDWATER LEVEL FLUCTUATIONS OCCUR DUE TO SEASONAL VARIATIONS IN THE AMOUNT OF RAINFALL, RUNOFF AND OTHER FACTORS. CONTRACTOR SHALL BE ADVISED THAT GEOTECHNICAL REPORT NOTES DEWATERING MAY BE NECESSARY WHEN EXCAVATING.

EARTHWORK: OVEREXCAVATION UNDER WALLS SHALL BE BACKFILLED WITH COMPACTED TYPE 5 BASE AGGREGATE WITH LAYERS OF GEO-REINFORCING GRID AT 2' SPACING WITH THE FIRST LAYER PLACED AT THE BOTTOM OF THE OVEREXCAVATION. TYPE 5 BASE AGGREGATE SHALL BE COMPACTED IN 6" LIFTS TO AT LEAST 95% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY, WITH MOISTURE CONTENT FROM -1% TO +3% OF THE OPTIMUM MOISTURE CONTENT.

FOUNDATION CONSTRUCTION CONSIDERATIONS: CONCRETE SHOULD BE PLACED SOON AFTER EXCAVATING TO REDUCE BEARING SOIL DISTURBANCE. PLACEMENT OF A LEAN CONCRETE MUD-MAT OVER THE BEARING SOILS SHOULD BE CONSIDERED IF THE EXCAVATIONS MUST REMAIN OPEN FOR AN EXTENDED PERIOD OF TIME.

LATERAL EARTH PRESSURES, MSE WALLS: WALL AND BAKFILL SHALL BE CONSTRUCTED AS FAR IN ADVANCE OF ADJACENT CONSTRUCTION AS POSSIBLE. ANY CONSTRUCTION ATOP THE WALL SHALL BE DELAYED UNTIL THE MAJORITY OF SETTLEMENT HAS OCCURRED.

ESTIMATED QUANTITIES

ITEM		TOTAL J6S1718B
CONCRETE AND MASONRY PROTECTION SYSTEM	LUMP SUM	1.0
PRECAST CONCRETE MODULAR BLOCK WALL **	SQFT	4,600
PEDESTRIAN FENCE (J6S1718B ONLY)	LINEAR FT	396

** PAYMENT FOR PRECAST CONCRETE MODULAR BLOCK WALL SYSTEMS SHALL INCLUDE ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING ALL COMPONENTS LISTED IN SEC 720 AND ASSOCIATED JSP, INCLUDING BUT NOT LIMITED TO THE LEVELING PAD, CAPSTONE, SELECT GRANULAR BACKFILL FOR STRUCTURAL SYSTEMS, SEPARATION GEOTEXTILE, DRAINAGE SYSTEM, AND ANCHOR SYSTEMS. PAYMENT SHALL ALSO INCLUDE THE ENCASED 10" PVC SANITARY SEWER PIPE CROSSINGS.

MSE WALL SYSTEMS DATA TABLE

PROPRIETARY WALL SYSTEMS		COMBINATION WALL SYSTEMS			
MANUFACTURER	SYSTEM	FACING UNIT MANUFACTURER	FACING UNIT	GEOGRID MANUFACTURER	GEOGRID

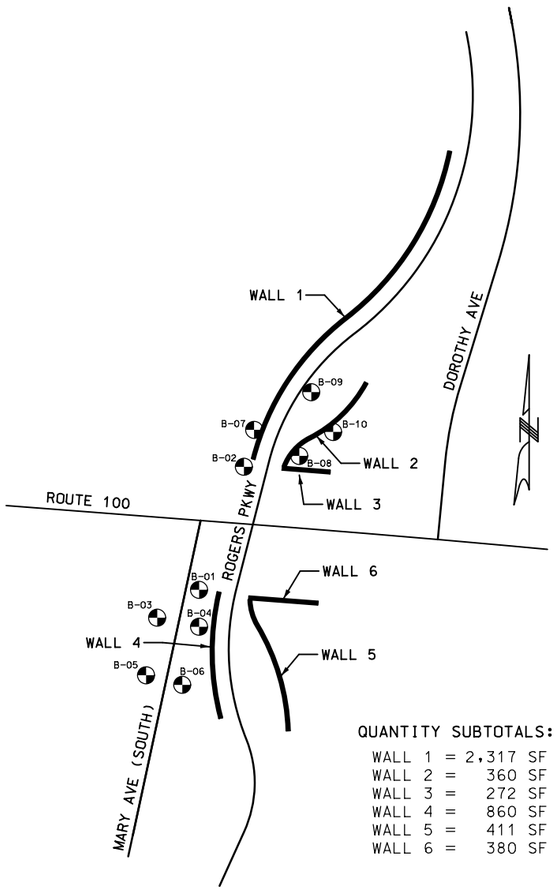
MSE WALL SYSTEMS DATA TABLE IS TO BE COMPLETED BY MoDOT CONSTRUCTION PERSONNEL TO RECORD THE MANUFACTURER OF THE PROPRIETARY WALL SYSTEM OR THE MANUFACTURERS OF THE COMBINATION WALL SYSTEM THAT WAS USED FOR CONSTRUCTING THE MSE WALL.

⊕ INDICATES LOCATION OF BORINGS

NOTICE AND DISCLAIMER REGARDING BORING LOG DATA:

THE LOCATION OF ALL SUBSURFACE BORINGS FOR THIS STRUCTURE ARE SHOWN ON THE PLAN SHEET(S) FOR EACH STRUCTURE. THE BORING DATA FOR ALL LOCATIONS INDICATED, AS WELL AS ANY OTHER BORING LOGS OR OTHER FACTUAL RECORDS OF SUBSURFACE DATA AND INVESTIGATIONS PERFORMED FOR THE DESIGN OF THE PROJECT, ARE SHOWN ON SHEET(S) NO. ___. NO GREATER SIGNIFICANCE OR WEIGHT SHOULD BE GIVEN TO THE BORIN DATA DEPICTED ON THE PLAN SHETS THAN IS GIVEN TO THE SUBSURFACE DATA AVAILABLE FROM ELSEWHERE.

THE CITY AND COMMISSION DO NOT REPRESENT OR WARRANT THAT ANY SUCH BORING DATA ACCURATELY DEPICTS THE CONDITIONS TO BE ENCOUNTERED IN CONSTRUCTING THIS PROJECT. A CONTRACTOR ASSUMES ALL RISKS IT MAY ENCOUNTER IN BASING ITS BID PRICES, TIME OR SCHEDULE OF PERFORMANCE ON THE BORING DATA DEPICTED HERE OR THOSE AVAILABLE FROM THE DISTRICT, OR ON ANY OTHER DOCUMENTATION NOT EXPRESSLY WARRANTED, WHICH THE CONTRACTOR MAY OBTAIN FROM THE CITY OR COMMISSION.



QUANTITY SUBTOTALS:

WALL 1 = 2,317 SF
WALL 2 = 360 SF
WALL 3 = 272 SF
WALL 4 = 860 SF
WALL 5 = 411 SF
WALL 6 = 380 SF

LOCATION SKETCH

MSE WALL GENERAL NOTES:

DESIGN SPECIFICATIONS:

2002 AASHTO LFD (17TH ED.) STANDARD SPECIFICATIONS (SECTION 5, ASD DESIGN)
SEISMIC PERFORMANCE CATEGORY B
ACCELERATION COEFFICIENT = 0.09

DESIGN LOADING:

ϕ_b = 35° AND UNIT WEIGHT, γ_b = 125 PCF FOR RETAINED BACKFILL MATERIAL TO BE RETAINED BY THE MECHANICALLY STABILIZED EARTH WALL SYSTEM.

ϕ_f = 29° FOR UNIMPROVED FOUNDATION GROUND WHERE WALL IS TO BEAR.
ϕ_f = 34° FOR IMPROVED FOUNDATION GROUND WHERE WALL IS TO BEAR.

ACTUAL $\phi_r \geq$ 34°FOR THE SELECT GRANULAR BACKFILL (REINFORCED BACKFILL AND WEDGE AREA BACKFILL) FOR STRUCTURAL SYSTEMS.

DESIGN ϕ_r = 34°FOR THE SELECT GRANULAR BACKFILL (REINFORCED BACKFILL) ONLY FOR STRUCTURAL SYSTEMS.

THE ALLOWABLE BEARING PRESSURE FOR UNIMPROVED FOUNDATION GROUND IS 1,500 PSF.

THE ALLOWABLE BEARING PRESSURE FOR IMPROVED FOUNDATION GROUND IS 3,000 PSF.

THE MAXIMUM APPLIED BEARING PRESSURE FOR THE CONTROLLING DESIGN CASE AT THE FOUNDATION LEVEL SHALL BE SHOWN ON THE MANUFACTURER'S DESIGN PLANS WHERE THE MAXIMUM APPLIED BEARING PRESSURE ≤ ALLOWABLE BEARING PRESSURE. FOR SEISMIC DESIGN THE MAXIMUM APPLIED BEARING PRESSURE ≤ TWO TIMES ALLOWABLE BEARING PRESSURE.

FACTOR OF SAFETY SHALL BE 2.5 FOR OVERTURNING AND 1.5 FOR SLIDING.

FOR SEISMIC DESIGN THE FACTOR OF SAFETY SHALL BE 1.5 OVERTURNING AND 1.1 FOR SLIDING.

DESIGN UNIT STRESSES:

ALL CONCRETE FOR LEVELING PAD SHALL BE CLASS B OR B-1 WITH F'C = 4000 PSI.

MISCELLANEOUS:

THE MSE WALL SYSTEMS SHALL BE BUILT WITH ZERO BATTER (VERTICAL FACE).

THE MSE WALL SYSTEM SHALL BE BUILT IN ACCORDANCE WITH SEC 720 AND WITH JOB SPECIAL PROVISION "PRECAST CONCRETE MODULAR BLOCK (PCMB) WALLS."

GRAVITY MODULAR BLOCK WALLS (WITH NO SOIL REINFORCEMENT) AND HYBRID MSE WALL/GRAVITY WALL ARE ALLOWABLE WHERE DESIGN LOADING AND SPECIFICATIONS ARE MET.

THE COST OF JOINT FILLER AND JOINT SEAL, COMPLETE AND IN PLACE, WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR CONCRETE TRAFFIC BARRIER (TYPE E). SEE ROADWAY PLANS.

CAPSTONES SHALL BE REQUIRED THE FULL LENGTH OF WALLS 2 AND 5.

ANY MODULAR BLOCK AND CAPSTONE REINFORCEMENT SHALL BE EPOXY COATED.

ALL WALLS SHALL BE THE SAME "LIMESTONE" COLOR, AS APPROVED BY THE ENGINEER.

J6S1718B: CONCRETE AND MASONRY PROTECTION SYSTEM SHALL BE APPLIED TO THE FACE, TOP, AND BACK OF ROADWAY TYPE E BARRIER AND BARRIER HEIGHT TRANSITION SECTIONS, TO THE EXPOSED INNER CONCRETE OF PRECAST CULVERT SECTIONS, AND TO THE EXPOSED ENDS OF PRECAST CULVERT SECTIONS AND HEADWALLS.

ANCHORAGE REINFORCEMENT SHALL BE SPACED TO AVOID PAVEMENT DROP INLET OR STORMWATER MANHOLE BEHIND WALL.

A FILTER CLOTH MEETING THE REQUIREMENTS FOR A SEPARATION GEOTEXTILE MATERIAL SHALL BE PLACED BETWEEN THE SELECT GRANULAR BACKFILL OR STRUCTURAL SYSTEMS AND THE BACKFILL BEING RETAINED BY THE MECHANICALLY STABILIZED EARTH WALL SYSTEM.

ALL WALL DETAILS SHOW TOP AND BOTTOM ELEVATIONS USING A BASELINE FOR A VERTICAL WALL. IF A FENCE IS BUILT ON AN EXTENDED GUTTER, THEN THE HEIGHT OF THE WALL SHALL BE FURTHER ADJUSTED.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO COORDINATE CONSTRUCTION OF THE WALL WITH STRUCTURE AND ROADWAY CONSTRUCTION AND ENSURE THAT THE STRUCTURE AND ROADWAY CONSTRUCTION, RESULTING OR EXISTING OBSTRUCTIONS, SHALL NOT IMPACT THE CONSTRUCTION OR PERFORMANCE OF THE WALL. SOIL REINFORCEMENT SHALL BE DESIGNED AND PLACED TO AVOID DAMAGE BY PILE DRIVING, GUARDRAIL POST INSTALLATION, UTILITY AND SIGN FOUNDATIONS. (SEE ROADWAY AND STRUCTURAL PLANS.)

WALLS 4 & 5 SHALL BE OVEREXCAVATED TO ELEVATION 433.

NO REINFORCEMENT SHALL BE LEFT UNCONNECTED TO THE WALL OR ARBITRARILY CUT/BENT IN THE FIELD TO AVOID AN OBSTRUCTION.

IF ROCK IS ENCOUNTERED IN THE PROPOSED REINFORCED BACKFILL AREA OR WEDGE AREA OF THE MSE WALL BEFORE OR DURING EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY CEASE EXCAVATION AND NOTIFY THE ENGINEER.

PERMANENT SHIMS FOR PRECAST MODULAR BLOCK WALL:

SHIMS WILL BE SPARINGLY ALLOWED TO MAINTAIN HORIZONTAL AND VERTICAL CONTROL. THE PREFERABLE SHIM SHALL BE MADE OF A PLASTIC MATERIAL THAT WILL NOT RUST, STAIN, ROT OR LEACH ONTO THE CONCRETE AND HAS A MINIMUM COMPRESSIVE STRENGTH EQUAL TO BLOCK WALL UNIT. STEEL OR WOOD SHIMS WILL NOT BE ALLOWED. SHIMS SHALL NOT EXCEED 1/8" IN THICKNESS AND SHALL DISTRIBUTE LOAD IN ORDER TO NOT INDUCE STRESS INTO BLOCK WALL UNITS. NO SHIM SHALL BE USED BETWEEN THE CONCRETE LEVELING PAD AND THE BASE COURSE OF THE BLOCK WALL.

DATE PREPARED
3/11/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	216

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B/C

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 2004
ST. LOUIS, MO 63101
(314) 241-4580
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001328

SPECIAL SHEET
RETAINING WALL DEATILS
SHEET 35 OF 40

REV.

* CAPSTONE SHALL BE REQUIRED ON WALLS 2 & 5. PANEL DOWELS FOR CAPSTONE SHALL BE REQUIRED AND AS PROVIDED BY MANUFACTURER.

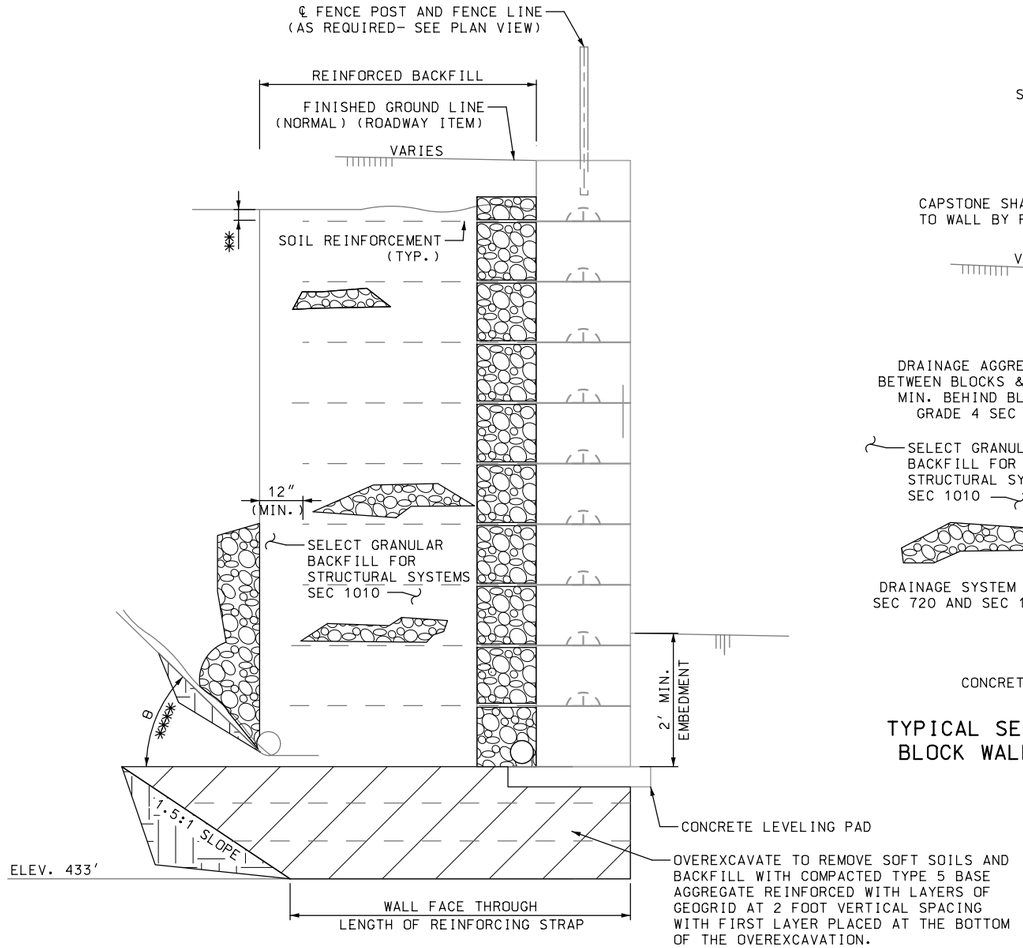
** TOPMOST LAYER OF REINFORCMENT SHALL BE FULLY COVERED WITH SELECT GRANULAR BACKFILL FOR STRUCTURAL SYSTEMS, AS APPROVED BY THE WALL MANUFACTURER, BEFORE PLACEMENT OF THE SEPARATION GEOTEXTILE.

*** MINIMUM 6" DIAMETER PERFORATED PVC OR PE PIPE, UNLESS LARGER SIZE PIPES ARE REQUIRED BY DESIGN OR BY WALL MANUFACTURER.

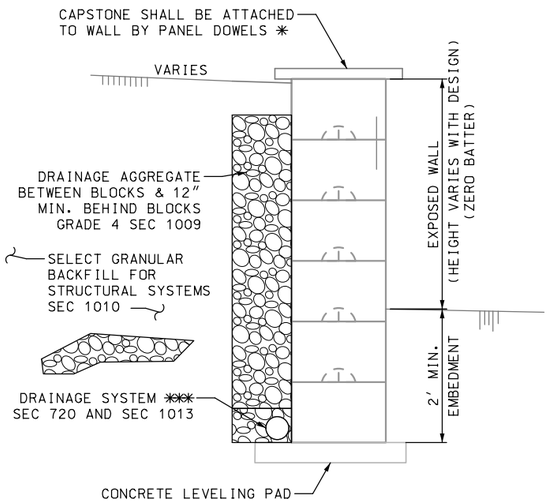
MANUFACTURER SHALL SHOW DRAIN DETAILS ON DESIGN PLANS TO BE SUBMITTED AS SHOWN ON MODOT MSE WALL PLANS AND/OR ROADWAY PLANS.

CONTRACTOR SHALL MODIFY THE DRAIN DETAILS AS SHOWN IF IT WILL IMPROVE FLOW AS MAY BE THE CASE FOR STEPPED LEVELING PAD, AND FOR AN UNEVEN GROUND LINE (APPROVAL OF THE ENGINEER REQUIRED).

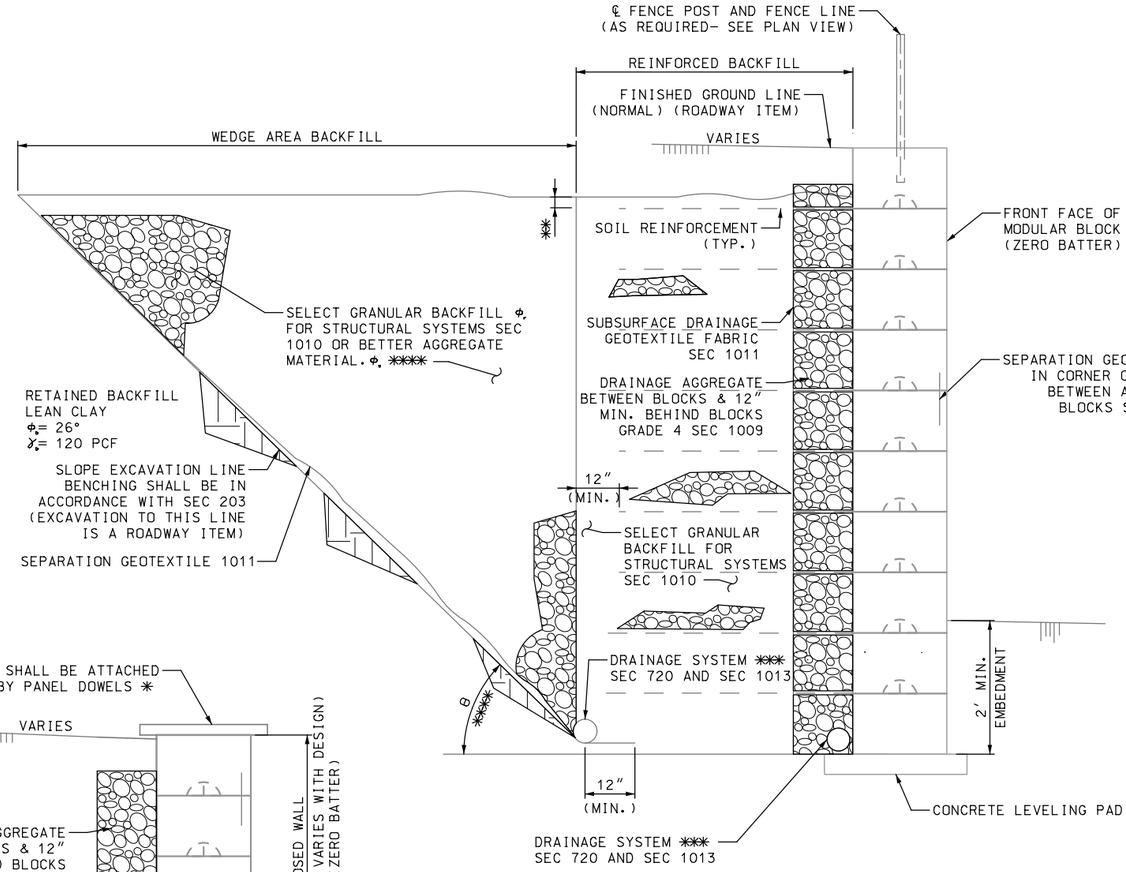
EXCAVATION QUANTITIES AND PAY ITEMS ARE GIVEN ON THE ROADWAY PLANS. EXCAVATION QUANTITIES ARE BASED ON A SOIL REINFORCEMENT LENGTH OF 0.7 x WALL HEIGHT AND ANY OVEREXCAVATION REQUIRED BY GEOTECHNICAL REPORT. THE SOIL REINFORCEMENT LENGTH MAY VARY BASED UPON THE WALL DESIGN SELECTED BY THE CONTRACTOR. PLAN EXCAVATION QUANTITIES WILL BE PAID REGARDLESS OF ANY ACUTAL QUANTITIES REMOVED BASED ON THE SOIL REINFORCEMENT LENGTH AND DESIGN SELECTED.



TYPICAL SECTION THRU SOIL REINFORCED MODULAR BLOCK WALL SHOWING OVEREXCAVATION



TYPICAL SECTION THRU GRAVITY MODULAR BLOCK WALL (NO SOIL REINFORCEMENT)



TYPICAL SECTION THRU SOIL REINFORCED MODULAR BLOCK WALL SHOWING FILTER CLOTH

**** SELECT GRANULAR BACKFILL SHALL EXTEND A MINIMUM OF 12" BEYOND THE END OF ALL SOIL REINFORCEMENT. WHEN THE ANGLE, θ, BETWEEN THE RETAINED BACKFILL EXCAVATION/FILL LINE AND THE HORIZONTAL IS LESS THAN 90°. THE WEDGE AREA BACKFILL BETWEEN θ AND 90° SHALL BE FILLED WITH SELECT GRANULAR BACKFILL FOR STRUCTURAL SYSTEMS MEETING THE REQUIREMENTS OF SECTION 1010.

- FOR $(45° + \Phi/2) < \theta \leq 90°$, PROPERTIES FOR RETAINED BACKFILL SHALL BE USED FOR ACTIVE FORCE COMPUTATIONS.

- FOR $\theta \leq (45° + \Phi/2)$, CONTRACTOR SHALL HAVE THE OPTION TO USE SELECT GRANULAR BACKFILL, Φ_r , OR BETTER AGGREGATE MATERIAL, Φ_r FOR ACTIVE FORCE COMPUTATIONS IN THE WEDGE AREA BACKFILL, THE ANGLE OF INTERNAL FRICTION FOR WEDGE AREA BACKFILL MATERIAL, Φ_r OR Φ_r, SHALL BE LIMITED TO 34° UNLESS DETERMINED OTHERWISE IN ACCORDANCE WITH SECTION 1010. IF Φ_r OR $\Phi_r > 34°$ IS DESIRED FOR WEDGE AREA BACKFILL THEN TEST REPORT SHALL BE SUBMITTED WITH MANUFACTURER'S DESIGN PLANS. Φ_r OR Φ_r SHALL NOT BE GREATER THAN 40° FOR COMPUTATIONS. FINAL CONFIGURATION OF THIS OPTION SHALL BE SENT TO GEOTECHNICAL SECTION FOR A NEW OVERALL GLOBAL STABILITY ANALYSIS. DESIGN Φ_r SHALL BE SHOWN ON MANUFACTURER'S PLANS IF USED.

SHOW RANGE OF ACCEPTABLE THETA (θ) ANGLE ON SHOP DRAWINGS WHICH MUST BE CONSISTENT WITH DESIGN COMPUTATIONS AND PROPOSED CONSTRUCTION OF WALL. COORDINATION BETWEEN WALL DESIGNER (MANUFACTURER) AND CONTRACTOR IS REQUIRED BEFORE SHOP DRAWINGS SUBMITTAL.

THE SLOPE EXCAVATION LINE SHALL BE BENCHED AND SEPARATION GEOTEXTILE SHALL BE PLACED BETWEEN THE RETAINED BACKFILL AND EITHER SELECTED GRANULAR BACKFILL OR BETTER AGGREGATE MATERIAL, AND BETWEEN THE SELECT GRANULAR BACKFILL AND BETTER AGGREGATE MATERIAL.

DATE PREPARED 3/12/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 217
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

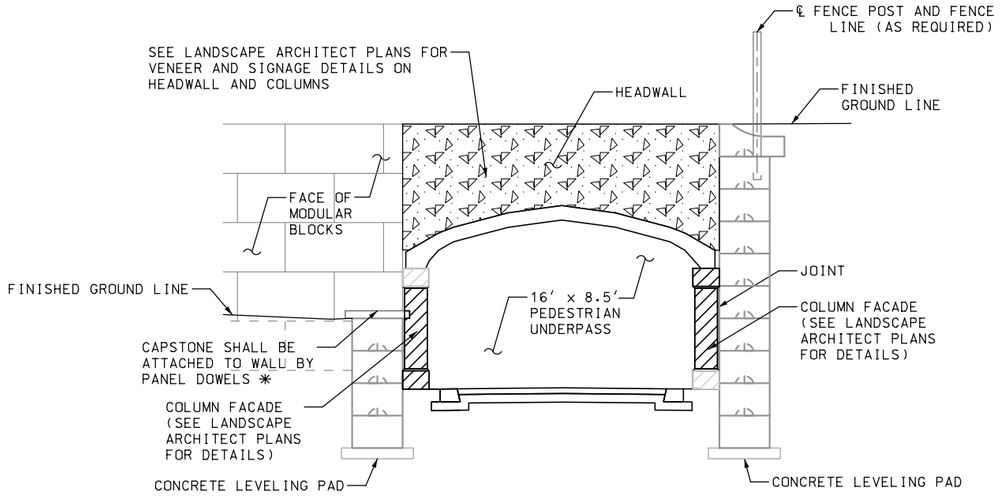
DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

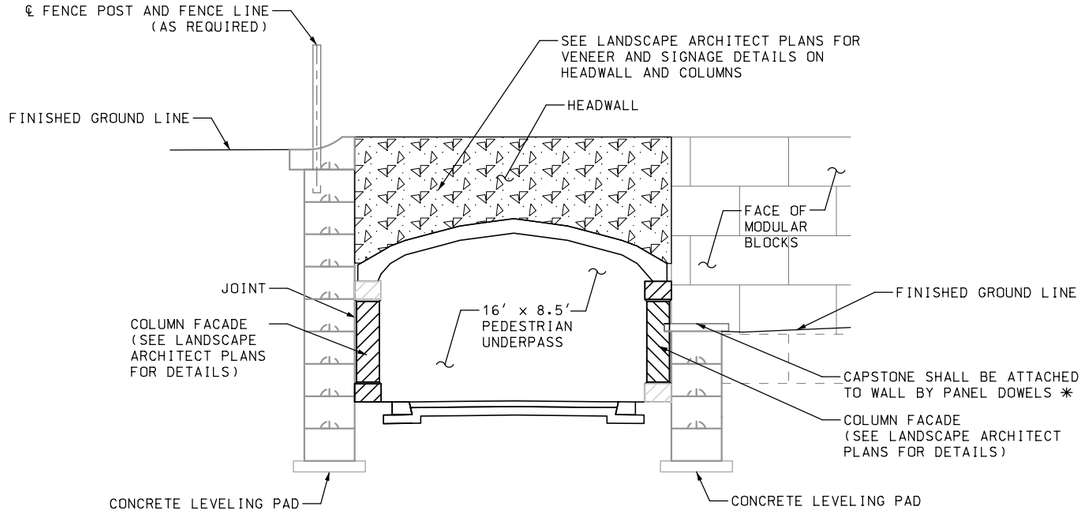
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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 36 OF 40

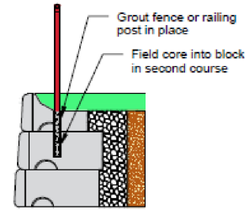
REV.



MODULAR BLOCK WALL ELEVATION AT PEDESTRIAN UNDERPASS – NORTH ENTRANCE FACING SOUTH



MODULAR BLOCK WALL ELEVATION AT PEDESTRIAN UNDERPASS – SOUTH ENTRANCE FACING NORTH



Grouted Connection (2 Blocks)

FENCE CONNECTION TO TOP BLOCK OF PRECAST CONCRETE MODULAR BLOCK WALL

NOTE:

48" TALL PEDESTRIAN FENCE SHALL BE PROVIDED ON WALLS 1, 3, 4 & 6.

ALL FENCING SHALL BE INSTALLED LEVEL, PLUMB AND TRUE, AND SECURELY MOUNTED AT REGULAR INTERVALS TO THE TOP BLOCKS OF THE WALLS.

RODS OR REINFORCING BARS SHALL BE SECURED BY AN APPROVED RESIN ANCHOR SYSTEM IN ACCORDANCE WITH SEC 1039.

RECESS HOLE SHALL BE BACKFILLED WITH NON-SHRINK CEMENT GROUT.

✳ INVERTED U-SHAPE REINFORCED CAPSTONE MAY BE USED IN LIEU OF COPING. PANEL DOWELS FOR CAPSTONE SHALL BE REQUIRED AND AS PROVIDED BY MANUFACTURER.

✳✳ TOPMOST LAYER OF REINFORCMENT SHALL BE FULLY COVERED WITH SELECT GRANULAR BACKFILL FOR STRUCTURAL SYSTEMS. AS APPROVED BY THE WALL MANUFACTURER, BEFORE PLACEMENT OF THE SEPARATION GEOTEXTILE.

✳✳✳ MINIMUM 6" DIAMETER PERFORATED PVC OR PE PIPE, UNLESS LARGER SIZE PIPES ARE REQUIRED BY DESIGN OR BY WALL MANUFACTURER.

DATE PREPARED 3/12/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 218
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
RETAINING WALL DETAILS
SHEET 37 OF 40

REV.

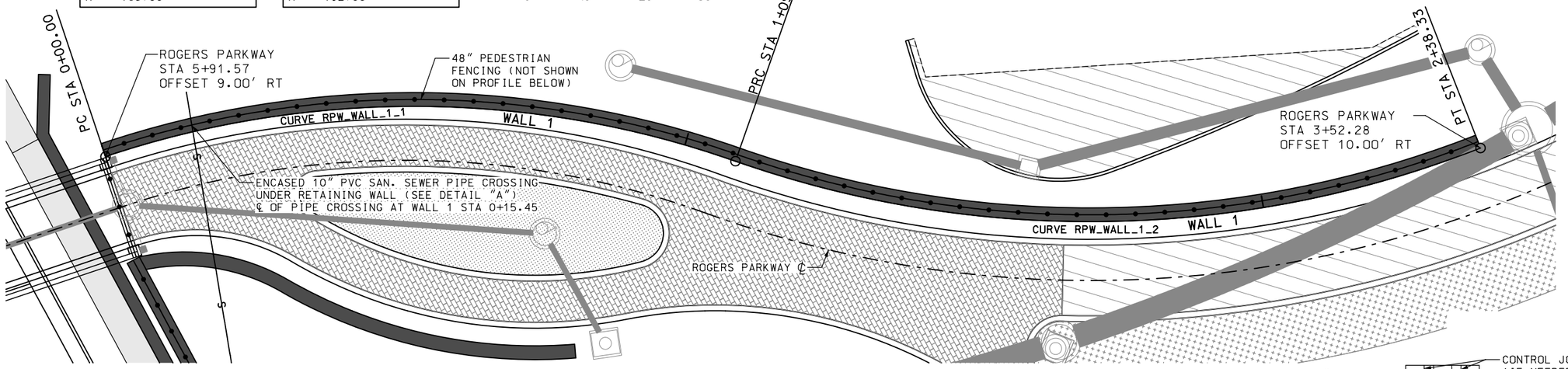
CURVE RPW_WALL_1_1	
PI	0+56.58
PC	0+00.00
PRC	1+09.01
Δ	37° 51′ 16.4″ (RT)
D	34° 43′ 29.0″
L	109.01′
T	56.58′
R	165.00′

CURVE RPW_WALL_1_2	
PI	1+76.54
PRC	1+09.01
PT	2+38.33
Δ	40° 42′ 41.3″ (LT)
D	31° 28′ 52.3″
L	129.32′
T	67.53′
R	182.00′

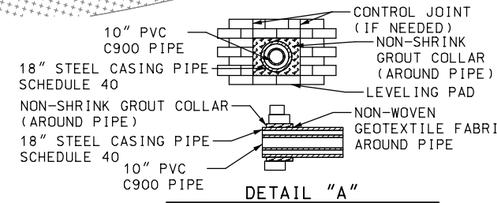
SCALE
0 10 20 30

WALL 1 NOTES:

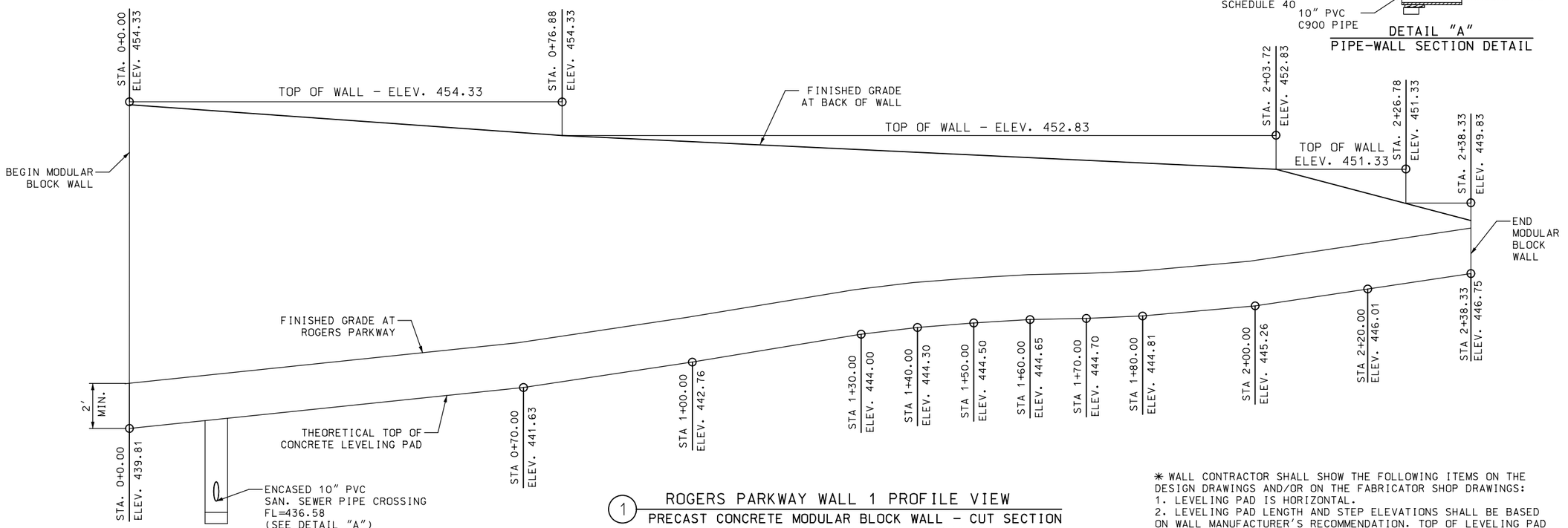
-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE SANITARY PIPE CROSSING.
-ELEVATIONS GIVEN ARE TAKEN FROM TOP OF WALL AND TOP OF THEORETICAL LEVELING PAD.
-BASELINE OF WALL IS AT THE FRONT FACE OF THE WALL.
-STATIONING OF THE WALL IS ALONG FRONT FACE OF THE WALL.
-WALL PROFILE DRAWN AT A 4:1 VERTICAL EXAGGERATION.



1 ROGERS PARKWAY WALL 1 PLAN VIEW
PRECAST CONCRETE MODULAR BLOCK WALL
STA. 0+00 TO STA. 2+38.33



DETAIL "A"
PIPE-WALL SECTION DETAIL



1 ROGERS PARKWAY WALL 1 PROFILE VIEW
PRECAST CONCRETE MODULAR BLOCK WALL – CUT SECTION
(FRONT FACE OF WALL SHOWN)
CONCRETE LEVELING PAD NOT SHOWN FOR CLARITY ✳

✳ WALL CONTRACTOR SHALL SHOW THE FOLLOWING ITEMS ON THE DESIGN DRAWINGS AND/OR ON THE FABRICATOR SHOP DRAWINGS:
1. LEVELING PAD IS HORIZONTAL.
2. LEVELING PAD LENGTH AND STEP ELEVATIONS SHALL BE BASED ON WALL MANUFACTURER'S RECOMMENDATION. TOP OF LEVELING PAD ELEVATIONS SHALL NOT BE HIGHER THAN THORETICAL TOP OF LEVELING PAD ELEVATIONS SHOWN ON THESE PLANS.

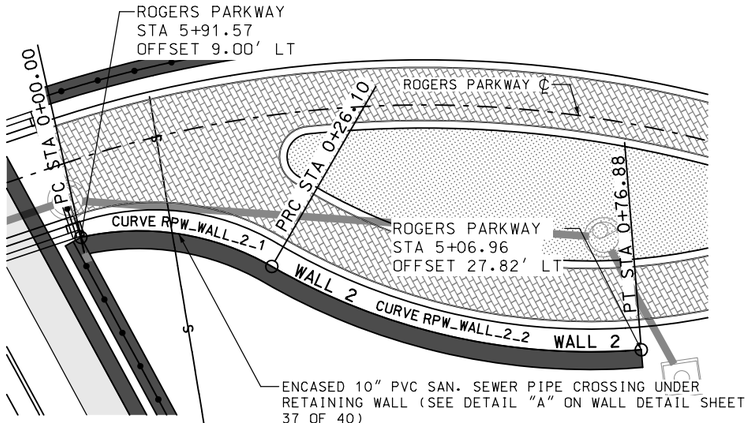
DATE PREPARED 3/11/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 219
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SPECIAL SHEET
RETAINING WALL DETAILS
ROGERS PARKWAY
SHEET 38 OF 40

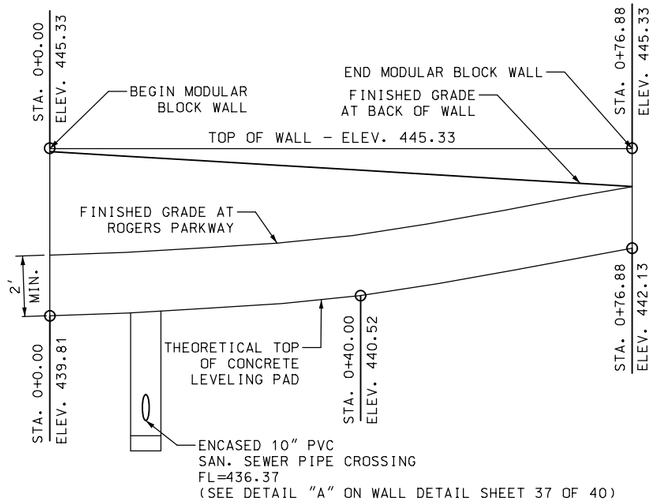


CURVE RPW_WALL_2_1	
PI	0+13.69
PC	0+00.00
PRC	0+26.10
Δ	42° 43' 10.1" (RT)
D	163° 42' 08.0"
L	26.10'
T	13.69'
R	35.00'

CURVE RPW_WALL_2_2	
PI	0+52.29
PRC	0+26.10
PT	0+76.88
Δ	34° 38' 12.0" (LT)
D	68° 12' 33.3"
L	50.78'
T	26.19'
R	84.00'

② ROGERS PARKWAY WALL 2 PLAN VIEW

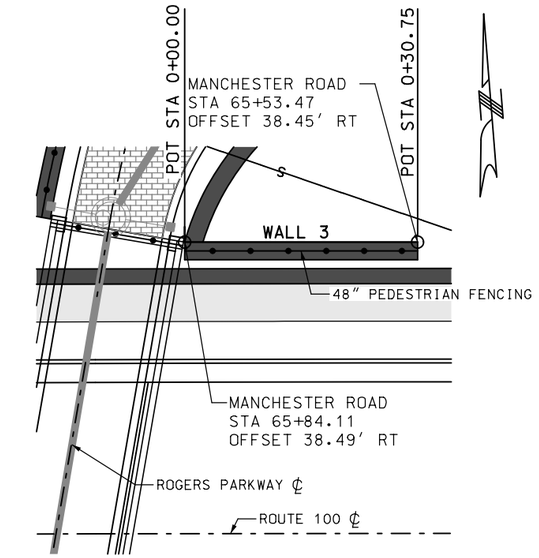
PRECAST CONCRETE MODULAR BLOCK WALL
STA. 0+00 TO STA. 0+76.88



② ROGERS PARKWAY WALL 2 PROFILE VIEW

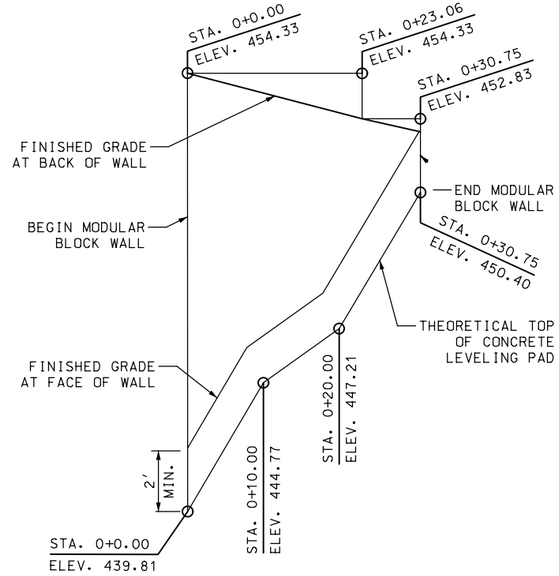
PRECAST CONCRETE MODULAR BLOCK WALL
(LOOKING AT BACK FACE OF WALL)

CONCRETE LEVELING PAD NOT SHOWN FOR CLARITY ✳
CAPSTONE SHALL BE REQUIRED THE FULL LENGTH OF THE WALL.
ELEVATION OF TOP BLOCK SHALL REMAIN CONSISTENT THE FULL LENGTH OF THE WALL.



③ ROGERS PARKWAY WALL 3 PLAN VIEW

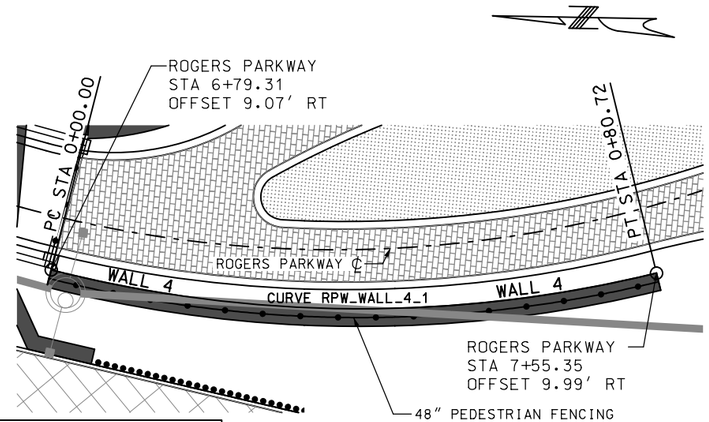
PRECAST CONCRETE MODULAR BLOCK WALL
STA. 0+00 TO STA. 0+30.75



③ ROGERS PARKWAY WALL 3 PROFILE VIEW

PRECAST CONCRETE MODULAR BLOCK WALL
(LOOKING AT BACK FACE OF WALL)

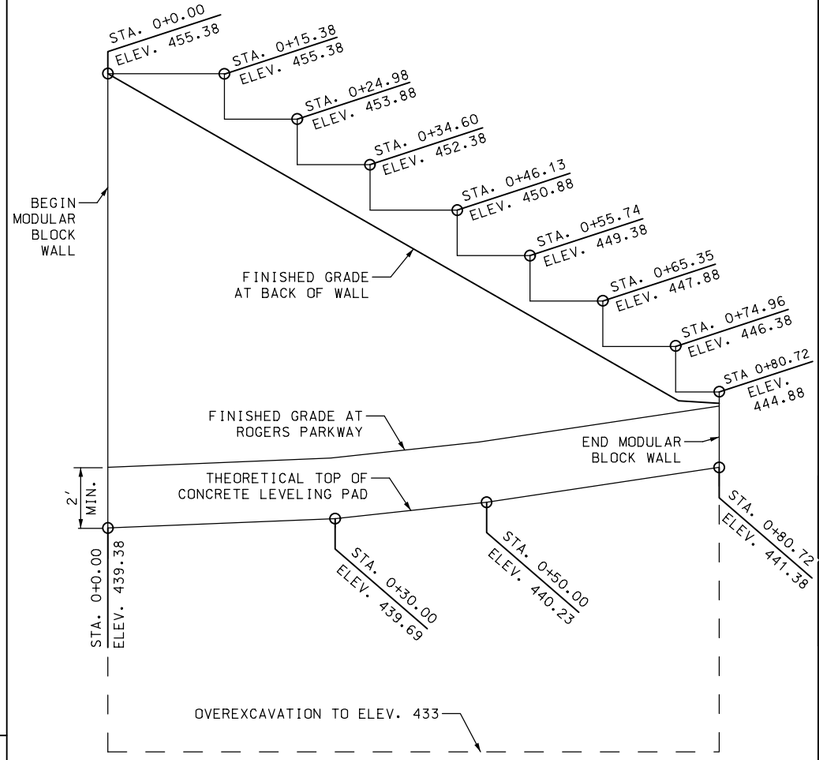
CONCRETE LEVELING PAD NOT SHOWN FOR CLARITY ✳



CURVE RPW_WALL_4_1	
PI	0+41.18
PC	0+00.00
PT	0+80.72
Δ	28° 01' 47.2" (LT)
D	34° 43' 29.0"
L	80.72'
T	41.18'
R	165.00'

④ ROGERS PARKWAY WALL 4 PLAN VIEW

PRECAST CONCRETE MODULAR BLOCK WALL
STA. 0+00 TO STA. 0+80.72



④ ROGERS PARKWAY WALL 4 PROFILE VIEW

PRECAST CONCRETE MODULAR BLOCK WALL
(LOOKING AT BACK FACE OF WALL)

CONCRETE LEVELING PAD NOT SHOWN FOR CLARITY ✳

✳ WALL CONTRACTOR SHALL SHOW THE FOLLOWING ITEMS ON THE DESIGN DRAWINGS AND/OR THE FABRICATOR SHOP DRAWINGS:
1. LEVELING PAD IS HORIZONTAL
2. LEVELING PAD LENGTH AND STEP ELEVATIONS SHALL BE BASED ON WALL MANUFACTURER'S RECOMMENDATION. TOP OF LEVELING PAD ELEVATIONS SHALL NOT BE HIGHER THAN THEORETICAL TOP OF LEVELING PAD ELEVATIONS SHOWN ON THESE PLANS.

WALL 2, 3 AND 4 NOTES:

-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE SAMITARY PIPE CROSSING OF WALL 2.
-ELEVATIONS GIVEN ARE TAKEN FROM TOP OF WALL AND TOP OF THEORETICAL LEVELING PAD.
-BASELINE OF WALL IS ALONG FRONT FACE OF WALL.
-WALL PROFILES DRAWN AT A 4:1 VERTICAL EXAGGERATION.

DATE PREPARED
3/12/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	220

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION
DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

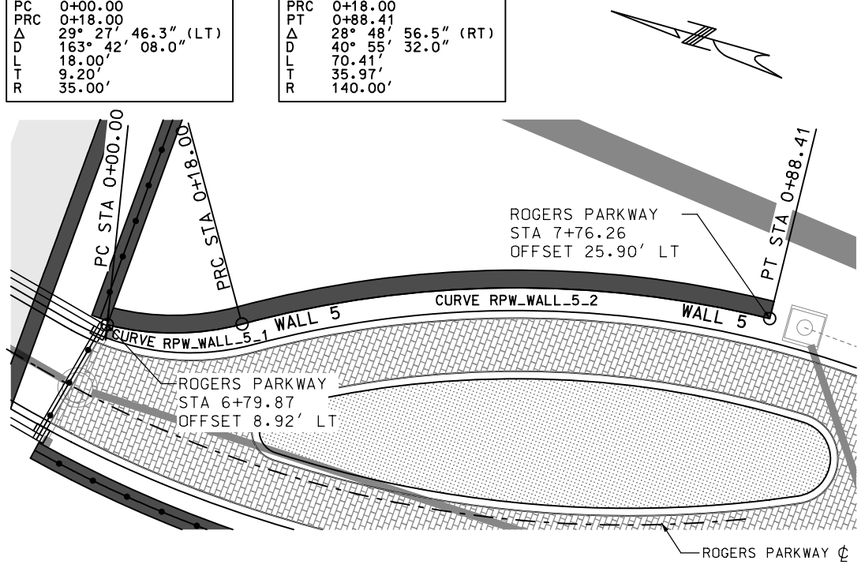
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SPECIAL SHEET
RETAINING WALL DETAILS
ROGERS PARKWAY

SHEET 39 OF 40

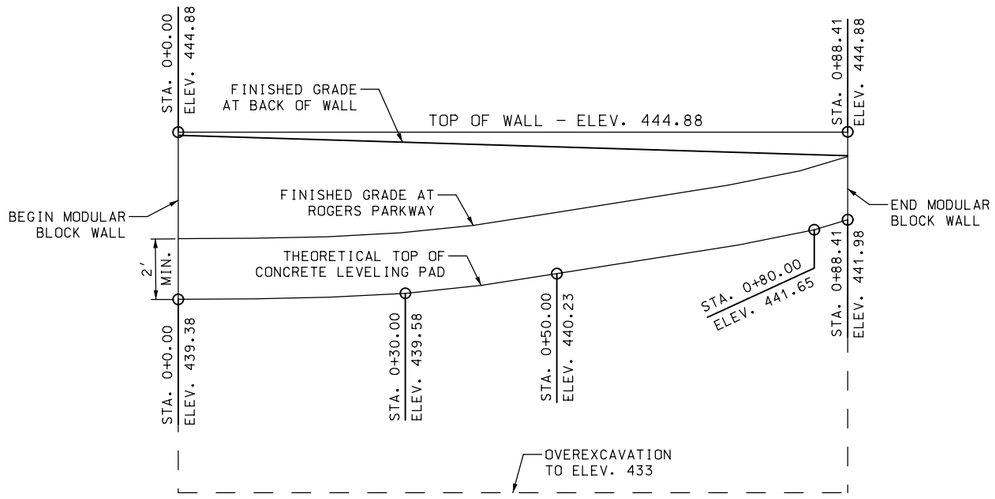
CURVE RPW_WALL_5_1	
PI	0+09.20
PC	0+00.00
PRC	0+18.00
Δ	29° 27′ 46.3″ (LT)
D	163° 42′ 08.0″
L	18.00′
T	9.20′
R	35.00′

CURVE RPW_WALL_5_2	
PI	0+53.96
PRC	0+18.00
PT	0+88.41
Δ	28° 48′ 56.5″ (RT)
D	40° 55′ 32.0″
L	70.41′
T	35.97′
R	140.00′



5 ROGERS PARKWAY WALL 5 PLAN VIEW

PRECAST CONCRETE MODULAR BLOCK WALL
STA. 0+00 TO STA. 0+88.41



5 ROGERS PARKWAY WALL 5 PROFILE VIEW

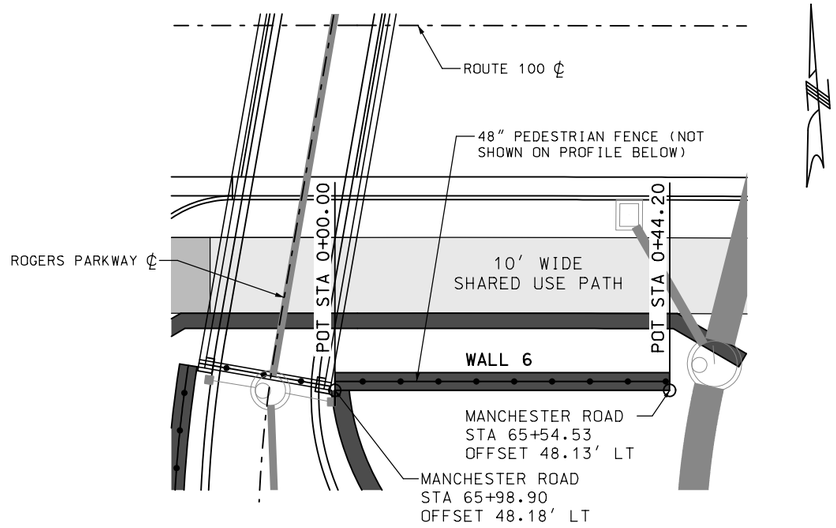
PRECAST CONCRETE MODULAR BLOCK WALL
(FRONT FACE OF WALL SHOWN)

CONCRETE LEVELING PAD NOT SHOWN FOR CLARITY ✳
CAPSTONE SHALL BE REQUIRED THE FULL LENGTH OF THE WALL.
ELEVATION OF THE TOP BLOCK SHALL REMAIN CONSISTENT THE FULL LENGTH OF THE WALL.

✳ WALL CONTRACTOR SHALL SHOW THE FOLLOWING ITEMS ON THE DESIGN DRAWINGS AND/OR THE FABRICATOR SHOP DRAWINGS:
1. LEVELING PAD IS HORIZONTAL.
2. LEVELING PAD LENGTH AND STEP ELEVATIONS SHALL BE BASED ON WALL MANUFACTURER'S RECOMMENDATION. TOP OF LEVELING PAD ELEVATIONS SHALL NOT BE HIGHER THAN THEORETICAL TOP OF LEVELING PAD ELEVATIONS SHOWN ON THESE PLANS.

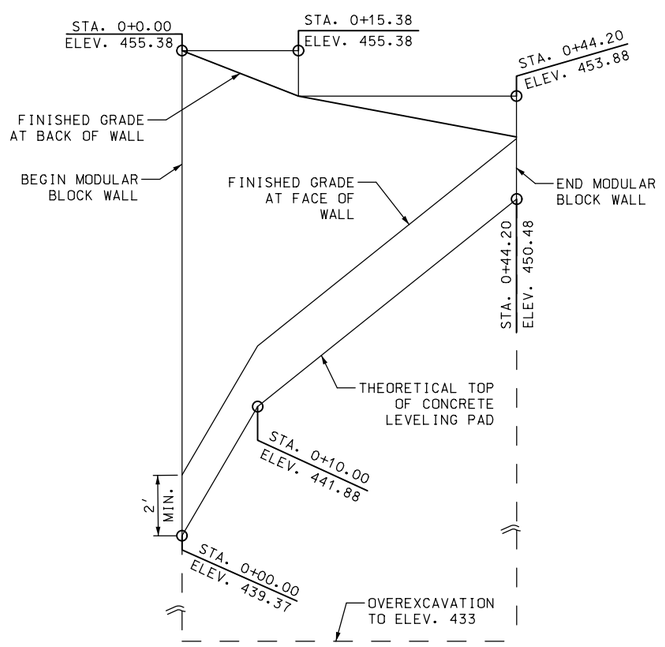
WALL 5 & 6 NOTES:

-ELEVATIONS GIVEN ARE TAKEN FROM TOP OF WALL AND TOP OF THEORETICAL LEVELING PAD.
-BASELINE OF WALL IS AT THE FRONT FACE OF THE WALL.
-STATIONING OF THE WALL IS ALONG FRONT FACE OF THE WALL.
-WALL PROFILE DRAWN AT A 4:1 VERTICAL EXAGGERATION.



6 ROGERS PARKWAY WALL 6 PLAN VIEW

PRECAST CONCRETE MODULAR BLOCK WALL
STA. 0+00 TO STA. 0+44.20



6 ROGERS PARKWAY WALL 6 PROFILE VIEW

PRECAST CONCRETE MODULAR BLOCK WALL
(FRONT FACE OF WALL SHOWN)
CONCRETE LEVELING PAD NOT SHOWN FOR CLARITY ✳

DATE PREPARED 3/12/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 221
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

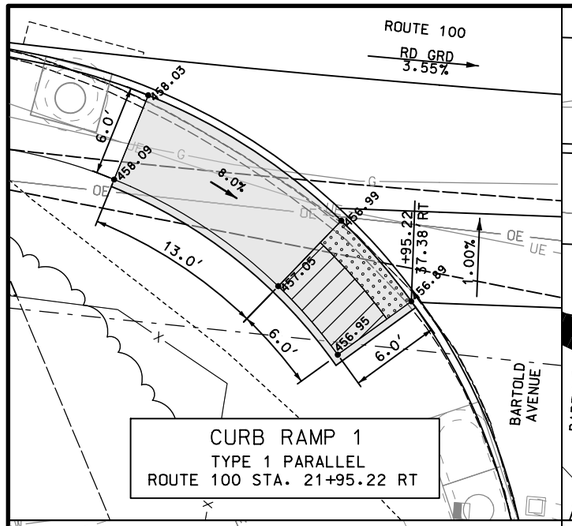
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

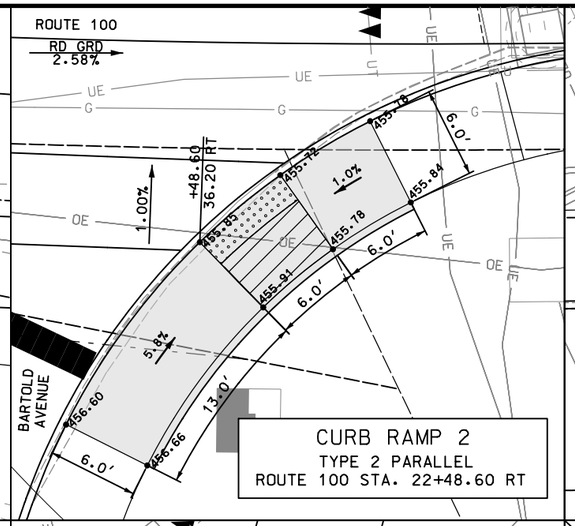
TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET
RETAINING WALL DETAILS
ROGERS PARKWAY
SHEET 40 OF 40

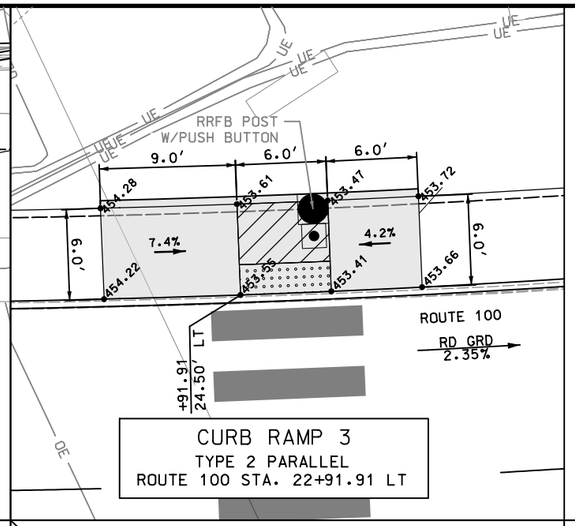
REV.



CURB RAMP 1
TYPE 1 PARALLEL
ROUTE 100 STA. 21+95.22 RT



CURB RAMP 2
TYPE 2 PARALLEL
ROUTE 100 STA. 22+48.60 RT



CURB RAMP 3
TYPE 2 PARALLEL
ROUTE 100 STA. 22+91.91 LT

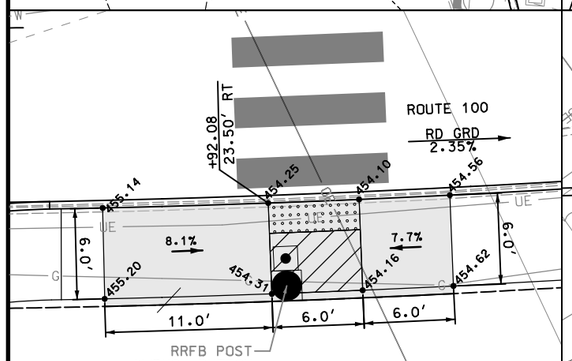
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

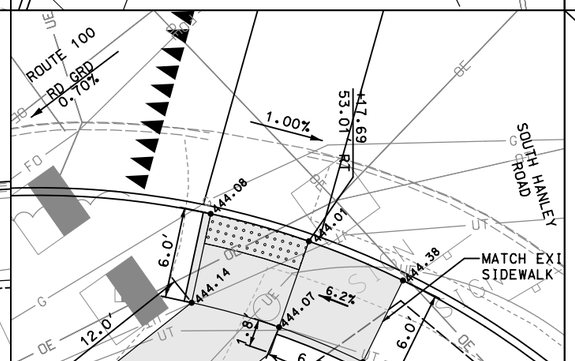
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

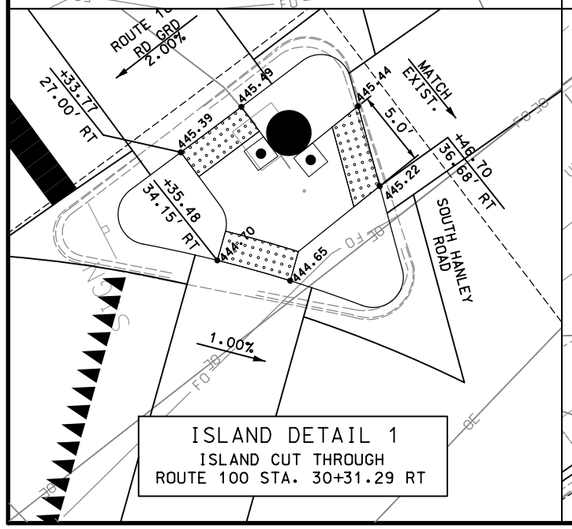
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



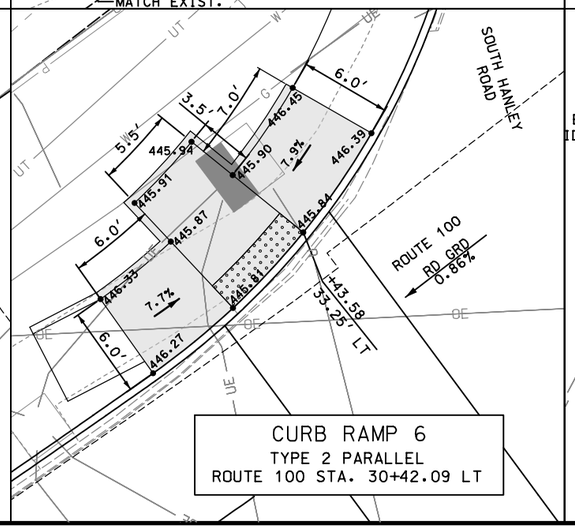
CURB RAMP 4
TYPE 2 PARALLEL
ROUTE 100 STA. 22+92.08 RT



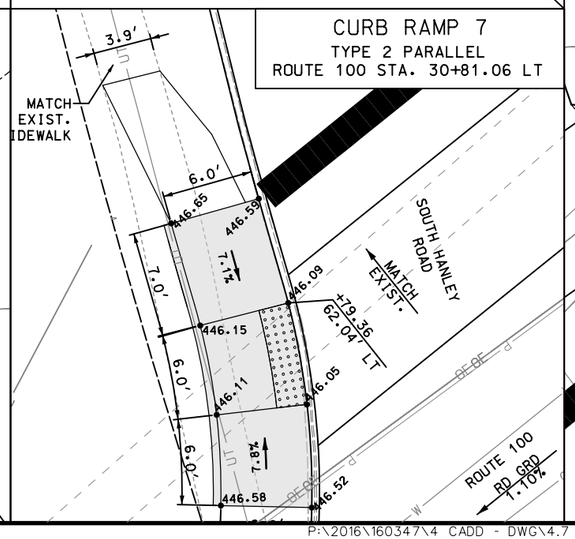
CURB RAMP 5
BLENDED TRANSITION
ROUTE 100 STA. 30+17.69 RT



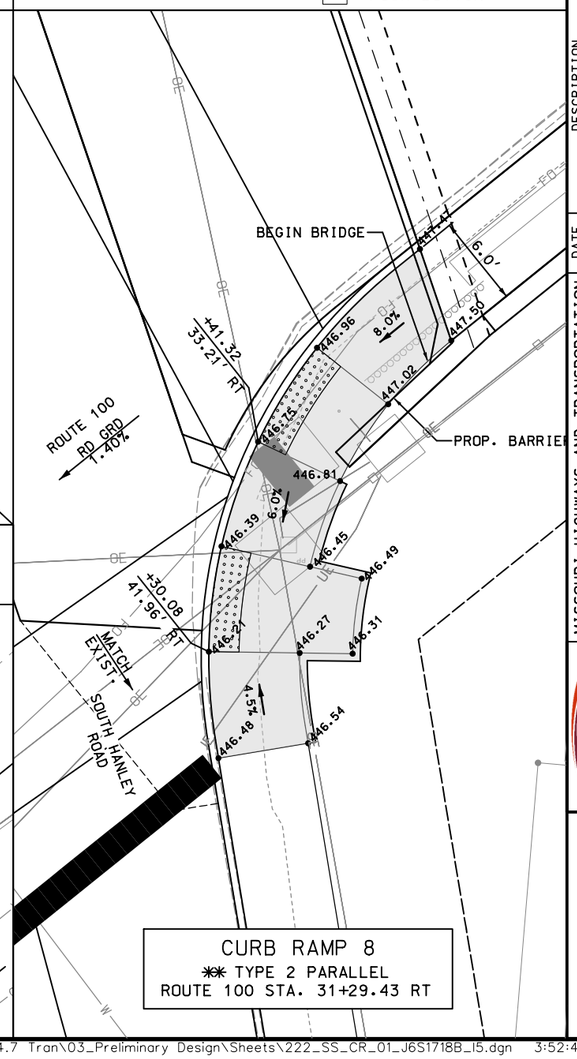
ISLAND DETAIL 1
ISLAND CUT THROUGH
ROUTE 100 STA. 30+31.29 RT



CURB RAMP 6
TYPE 2 PARALLEL
ROUTE 100 STA. 30+42.09 LT



CURB RAMP 7
TYPE 2 PARALLEL
ROUTE 100 STA. 30+81.06 LT



CURB RAMP 8
** TYPE 2 PARALLEL
ROUTE 100 STA. 31+29.43 RT

DATE PREPARED	3/23/2020
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	222
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

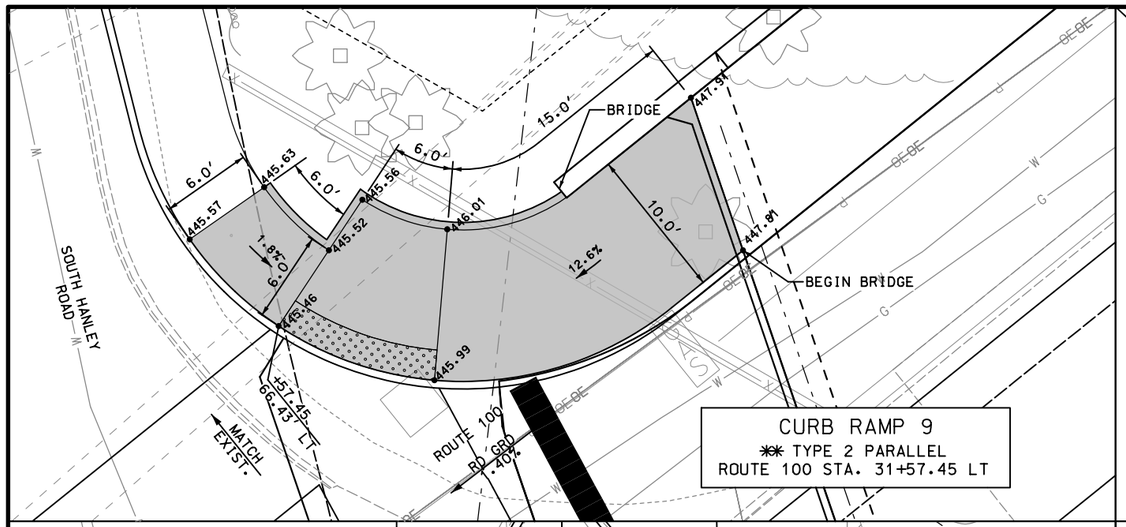
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 1 OF 19

REV.



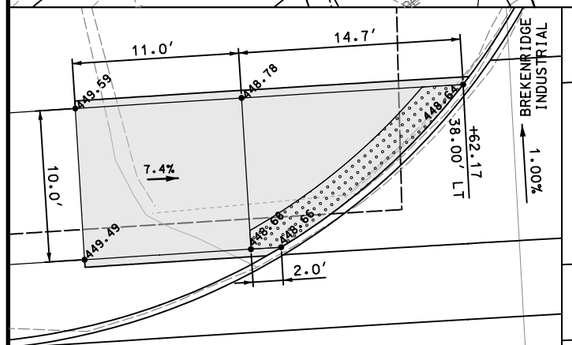
CURB RAMP 9
** TYPE 2 PARALLEL
ROUTE 100 STA. 31+57.45 LT

SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
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3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

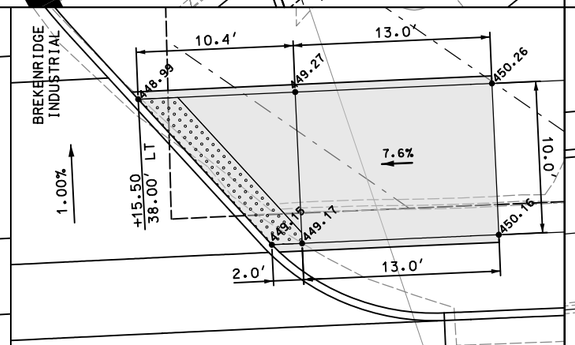
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



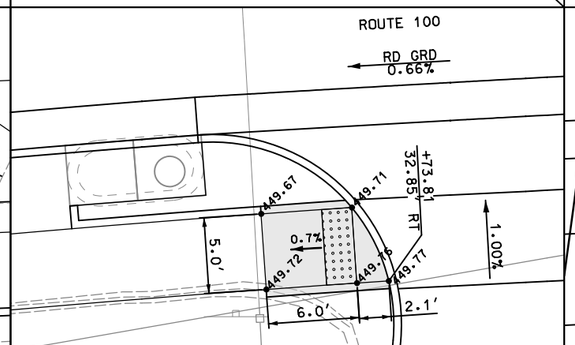
ROUTE 100
RD GRD
0.66%

CURB RAMP 10
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 39+62.17 LT



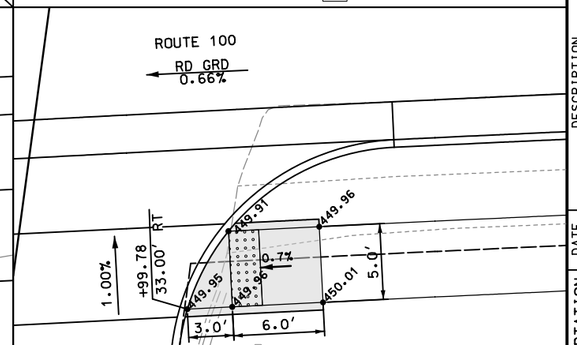
ROUTE 100
RD GRD
0.66%

CURB RAMP 11
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 40+15.50 LT



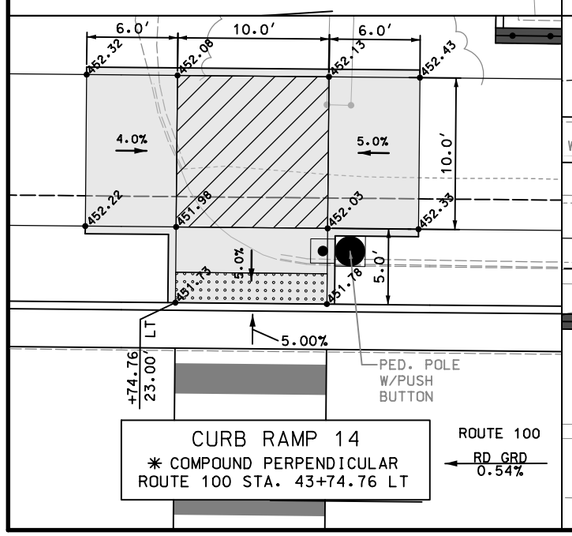
CURB RAMP 12
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 39+73.81 RT

PORTER AVENUE



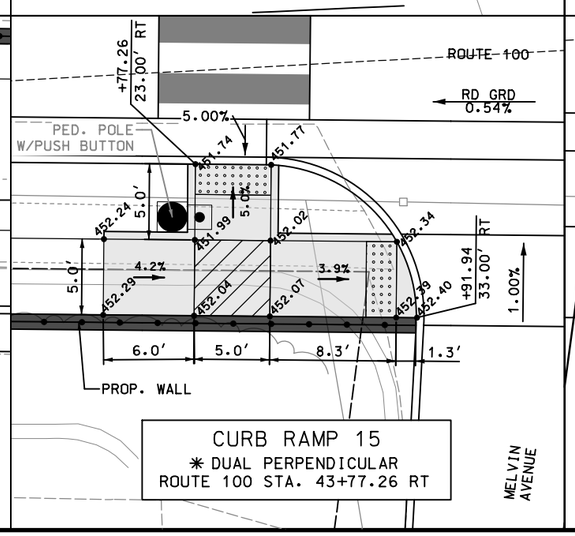
PORTER AVENUE

CURB RAMP 13
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 39+99.78 RT



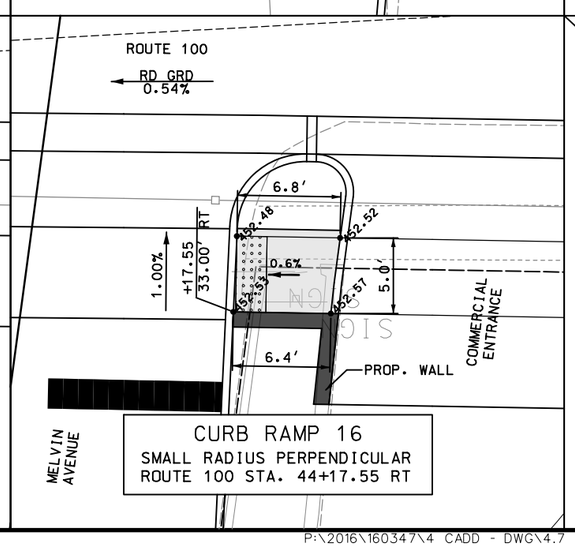
ROUTE 100
RD GRD
0.54%

CURB RAMP 14
* COMPOUND PERPENDICULAR
ROUTE 100 STA. 43+74.76 LT



CURB RAMP 15
* DUAL PERPENDICULAR
ROUTE 100 STA. 43+77.26 RT

MELVIN AVENUE



MELVIN AVENUE

CURB RAMP 16
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 44+17.55 RT

DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	223
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

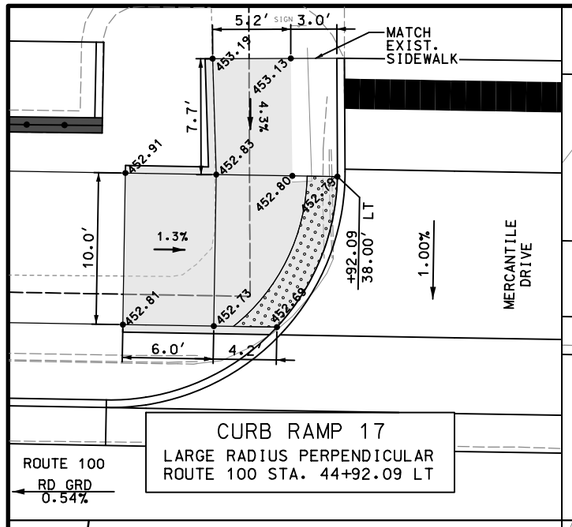
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

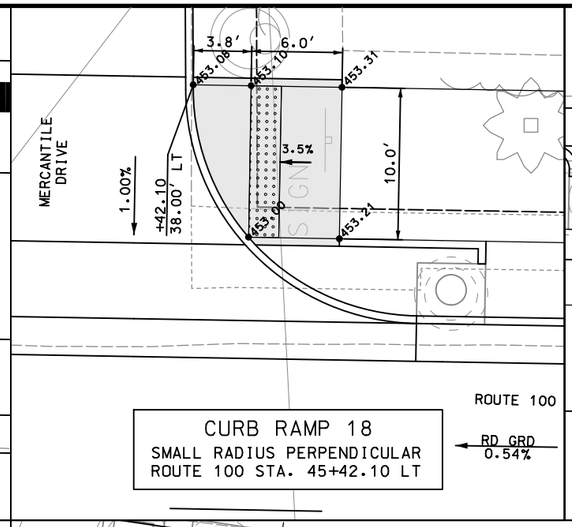
ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6800
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 2 OF 19

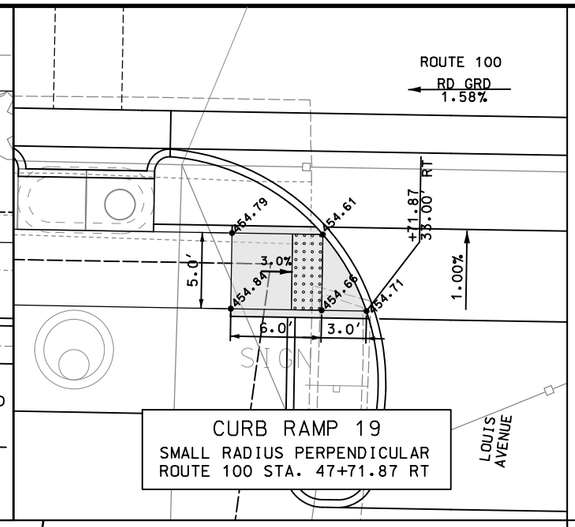
REV.



CURB RAMP 17
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 44+92.09 LT



CURB RAMP 18
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 45+42.10 LT



CURB RAMP 19
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 47+71.87 RT

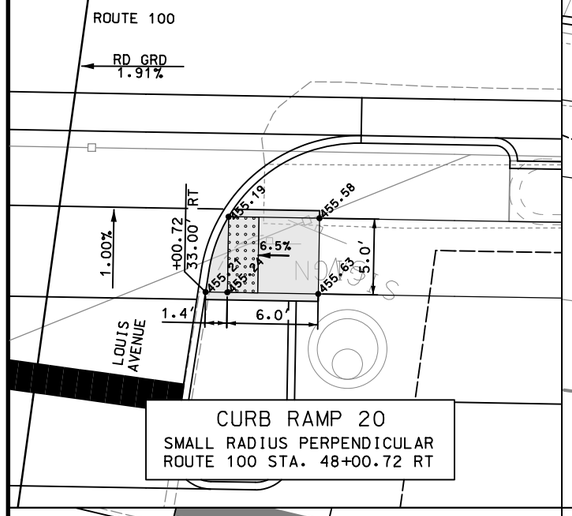
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

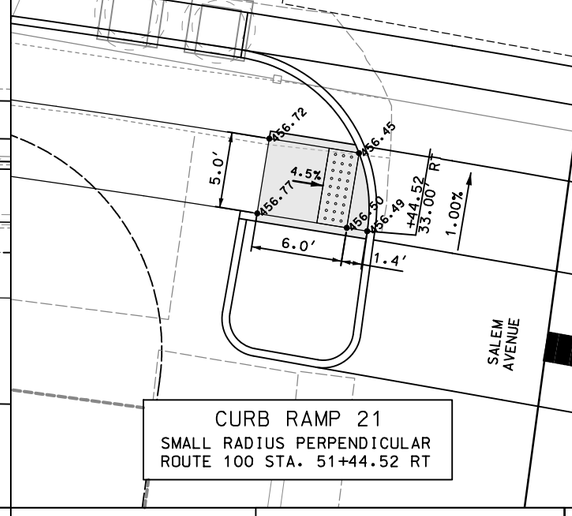
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

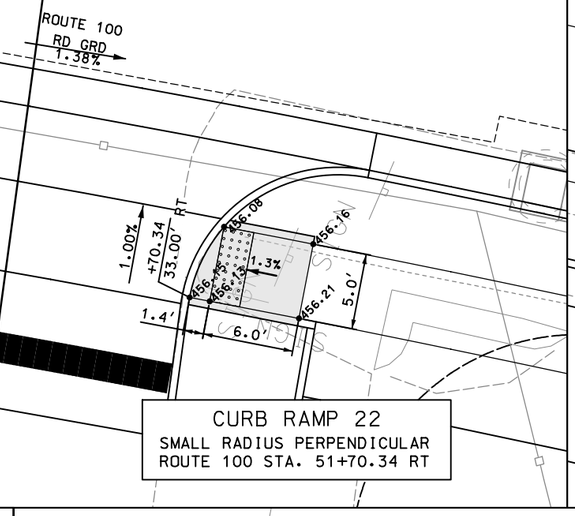
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



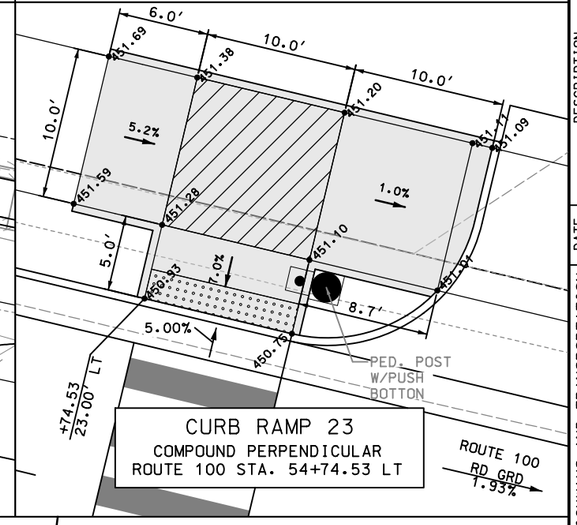
CURB RAMP 20
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 48+00.72 RT



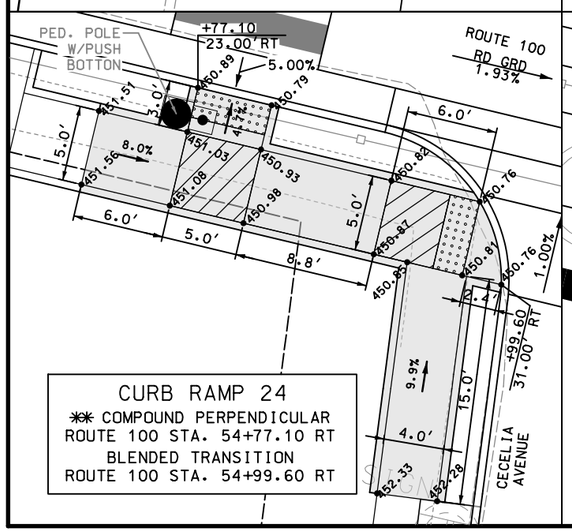
CURB RAMP 21
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 51+44.52 RT



CURB RAMP 22
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 51+70.34 RT

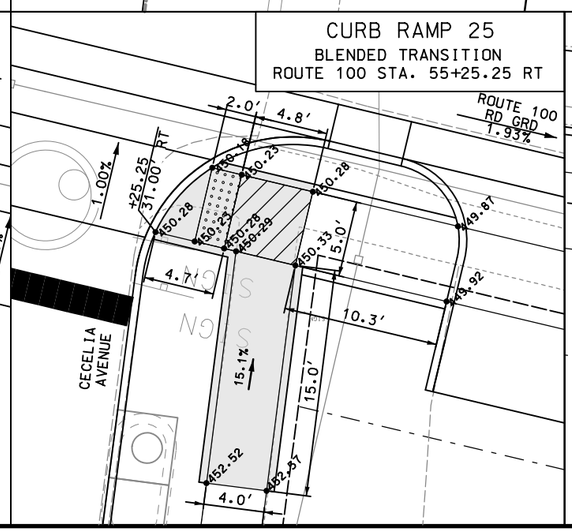


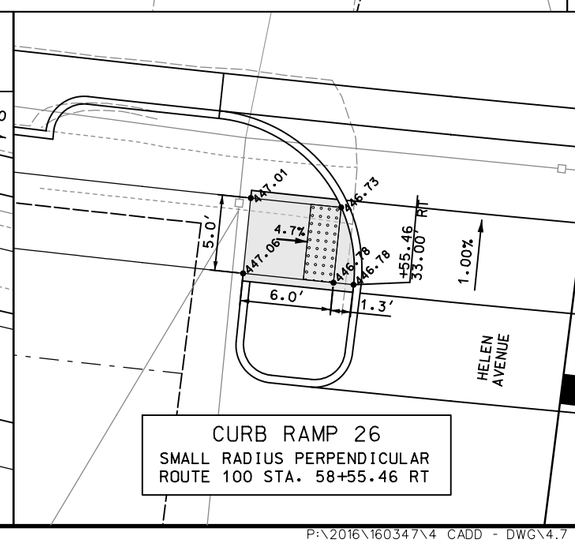
CURB RAMP 23
COMPOUND PERPENDICULAR
ROUTE 100 STA. 54+74.53 LT



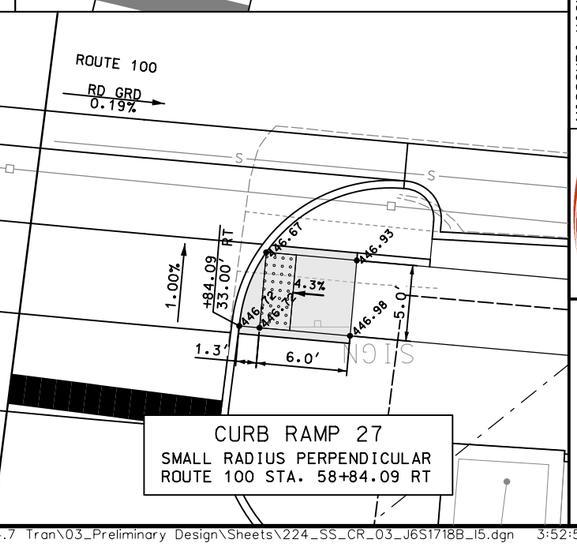
CURB RAMP 24
** COMPOUND PERPENDICULAR
ROUTE 100 STA. 54+77.10 RT
BLENDED TRANSITION
ROUTE 100 STA. 54+99.60 RT

CURB RAMP 25
BLENDED TRANSITION
ROUTE 100 STA. 55+25.25 RT





CURB RAMP 26
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 58+55.46 RT



CURB RAMP 27
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 58+84.09 RT

DATE PREPARED
3/23/2020
ROUTE 100
STATE MO
DISTRICT SL
SHEET NO. 224
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION
DATE

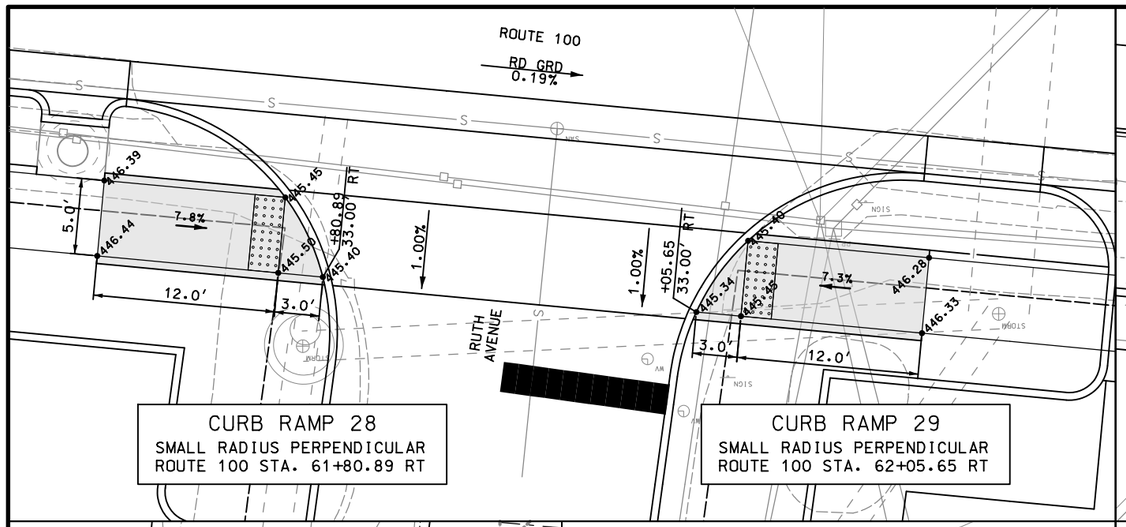
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 3 OF 19

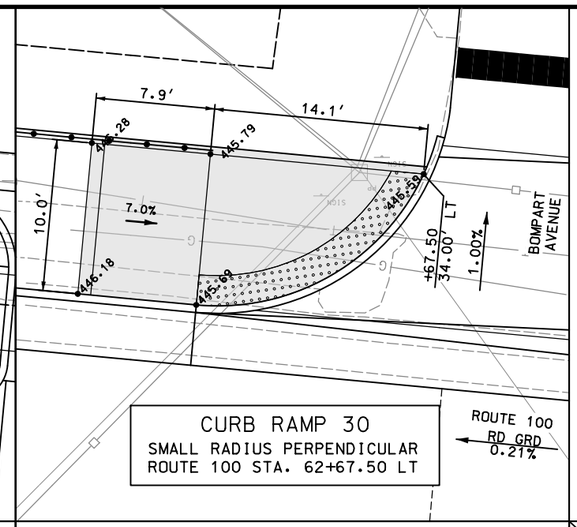
REV. .

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\224_SS_CR_03_J6S1718B_15.dgn 3:52:50 PM 3/23/2020



CURB RAMP 28
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 61+80.89 RT

CURB RAMP 29
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 62+05.65 RT



CURB RAMP 30
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 62+67.50 LT

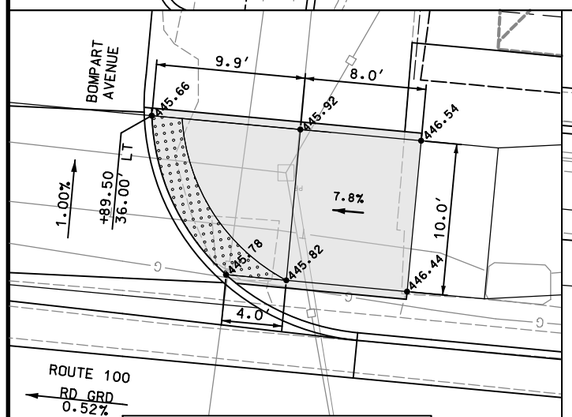
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
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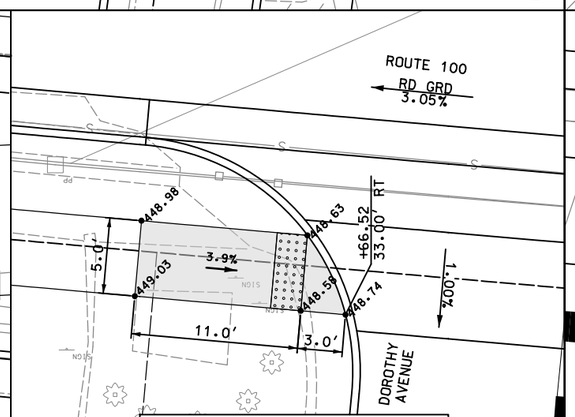
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

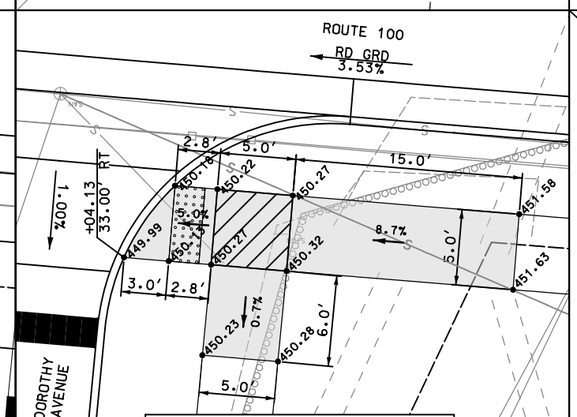
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



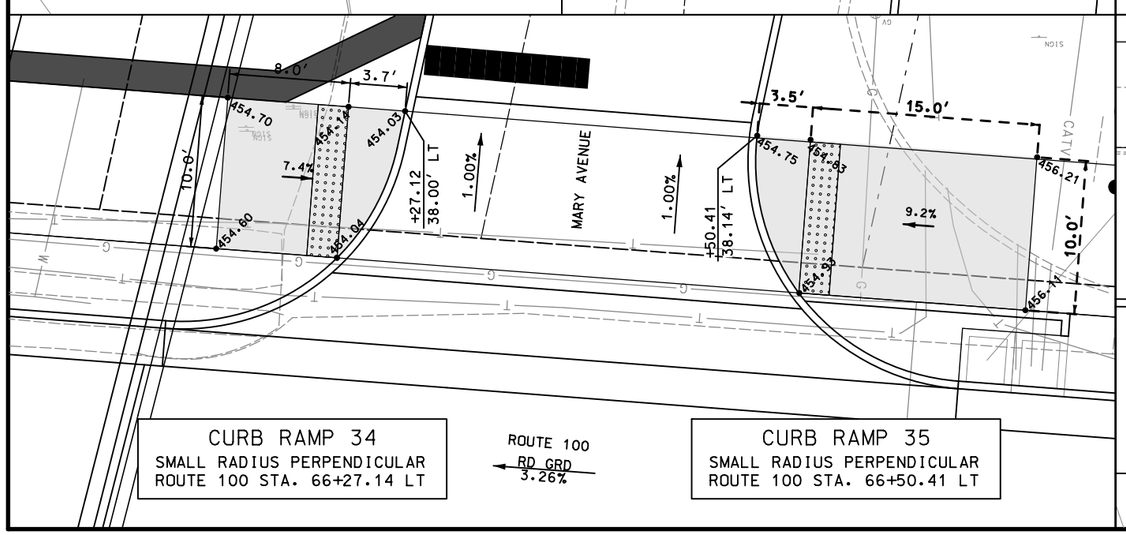
CURB RAMP 31
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 62+89.50 LT



CURB RAMP 32
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 64+66.52 RT

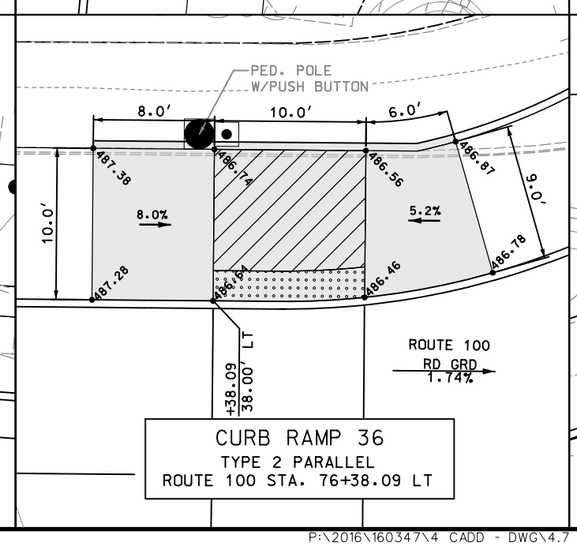


CURB RAMP 33
COMPOUND PERPENDICULAR
ROUTE 100 STA. 65+04.13 RT

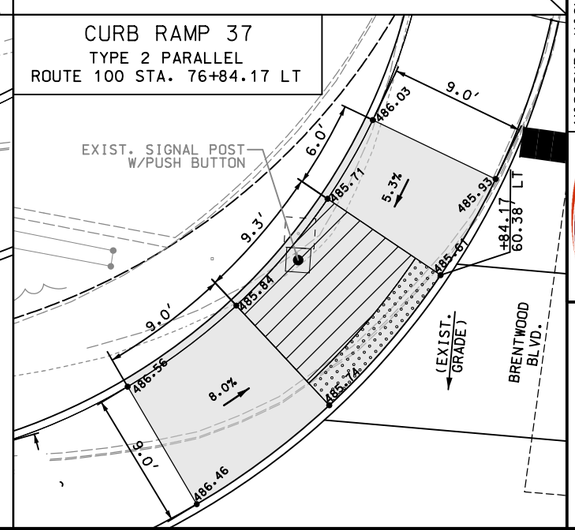


CURB RAMP 34
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 66+27.14 LT

CURB RAMP 35
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 66+50.41 LT



CURB RAMP 36
TYPE 2 PARALLEL
ROUTE 100 STA. 76+38.09 LT



CURB RAMP 37
TYPE 2 PARALLEL
ROUTE 100 STA. 76+84.17 LT

DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	225
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

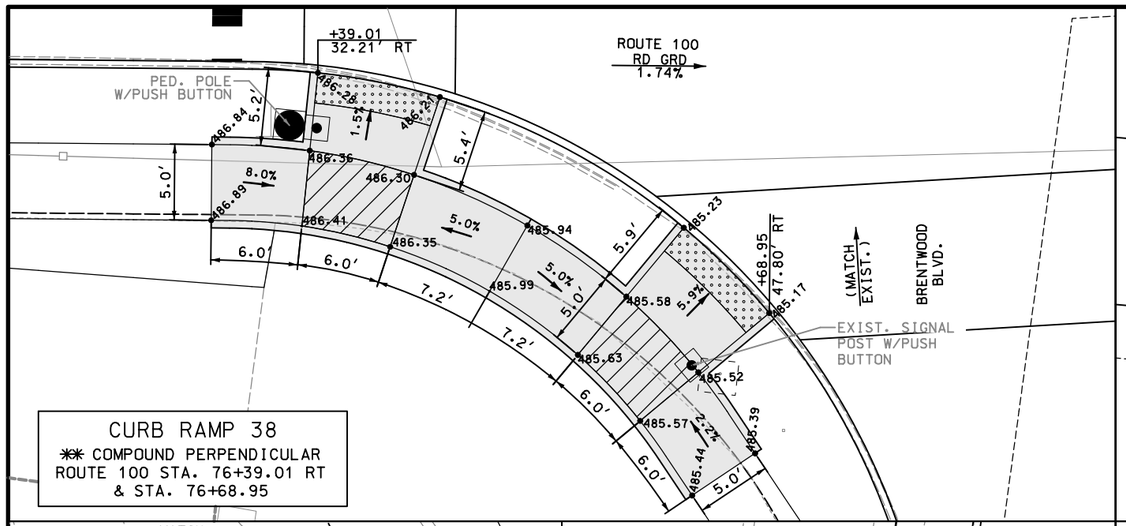
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

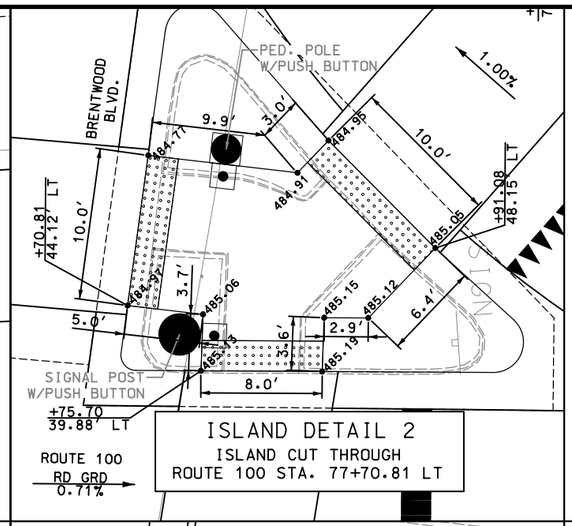
SPECIAL SHEET
.
CURB RAMP DETAILS
.
ROUTE 100
.
SHEET 4 OF 19

REV.



CURB RAMP 38

** COMPOUND PERPENDICULAR
ROUTE 100 STA. 76+39.01 RT
& STA. 76+68.95



ISLAND DETAIL 2

ISLAND CUT THROUGH
ROUTE 100 STA. 77+70.81 LT

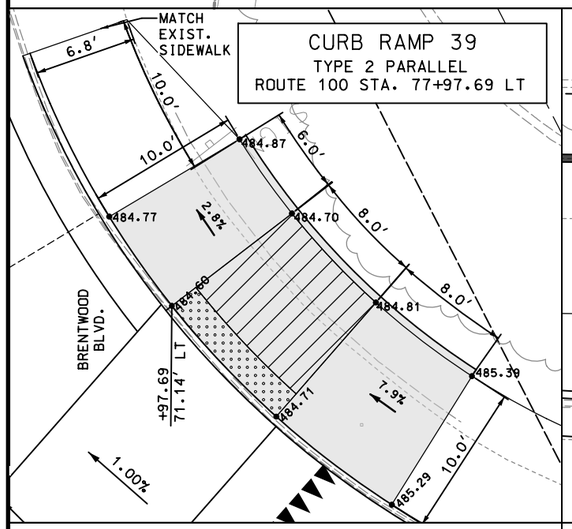
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

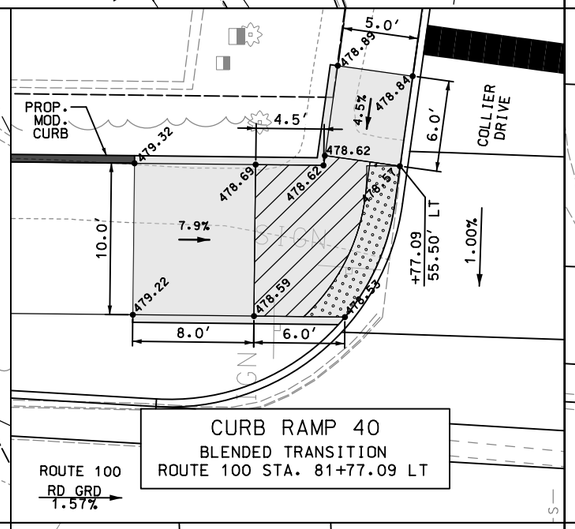
LEGEND

- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



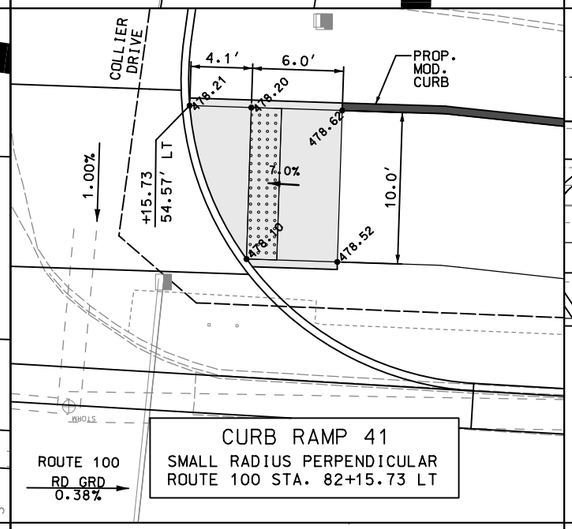
CURB RAMP 39

TYPE 2 PARALLEL
ROUTE 100 STA. 77+97.69 LT



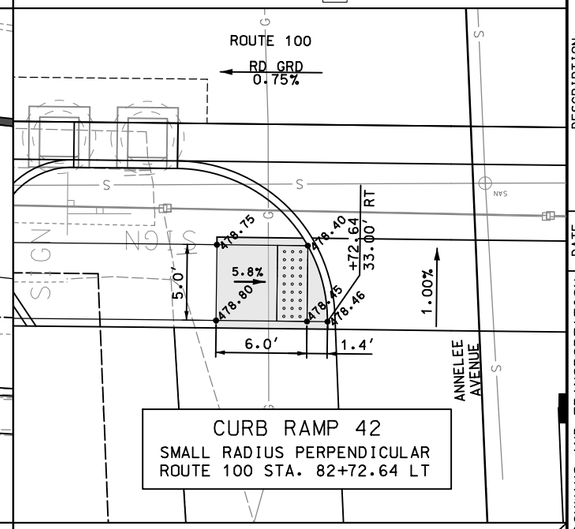
CURB RAMP 40

BLENDED TRANSITION
ROUTE 100 STA. 81+77.09 LT



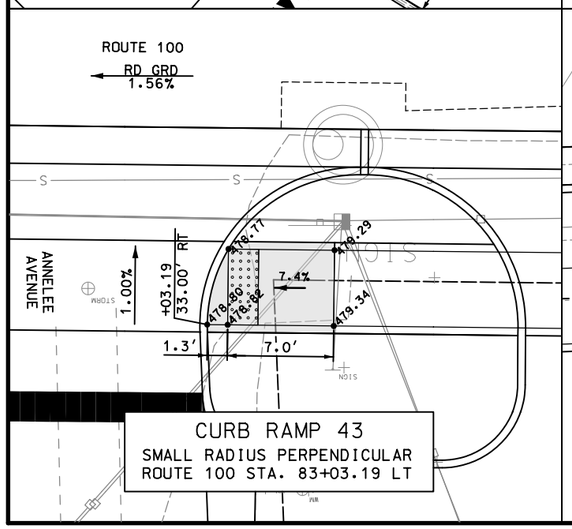
CURB RAMP 41

SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 82+15.73 LT



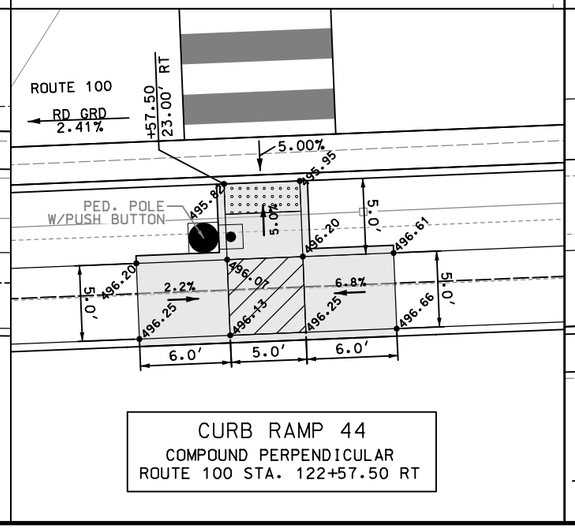
CURB RAMP 42

SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 82+72.64 LT



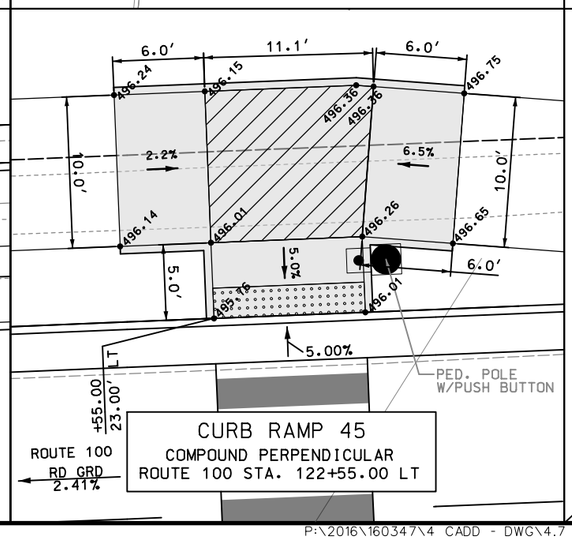
CURB RAMP 43

SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 83+03.19 LT



CURB RAMP 44

COMPOUND PERPENDICULAR
ROUTE 100 STA. 122+57.50 RT



CURB RAMP 45

COMPOUND PERPENDICULAR
ROUTE 100 STA. 122+55.00 LT

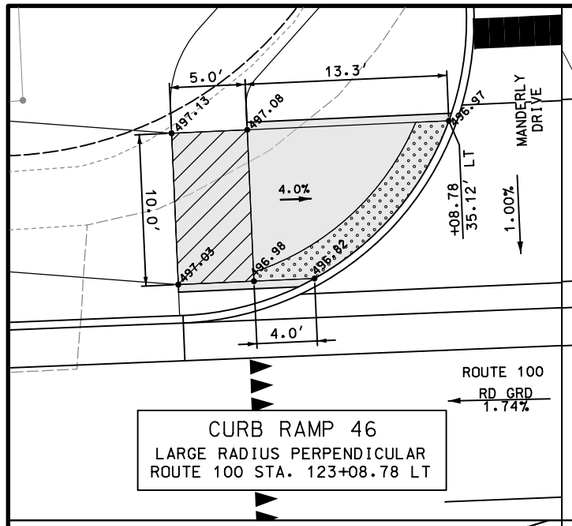
DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	226
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION
DATE
REV.

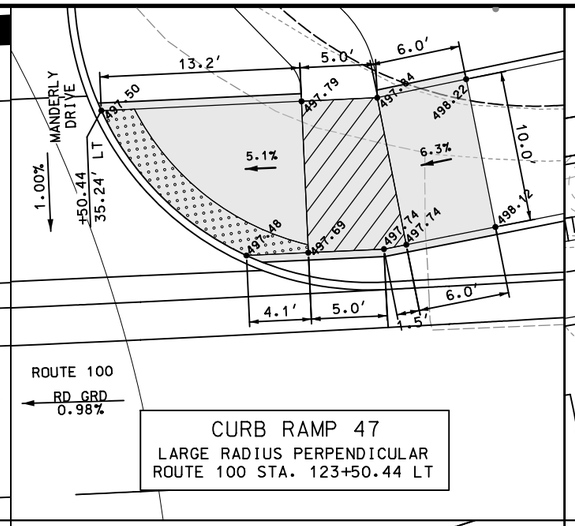
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6800
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

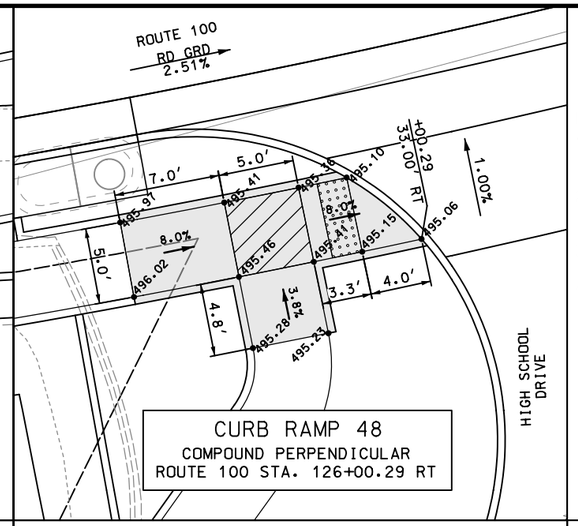
SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 5 OF 19



CURB RAMP 46
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 123+08.78 LT



CURB RAMP 47
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 123+50.44 LT



CURB RAMP 48
COMPOUND PERPENDICULAR
ROUTE 100 STA. 126+00.29 RT

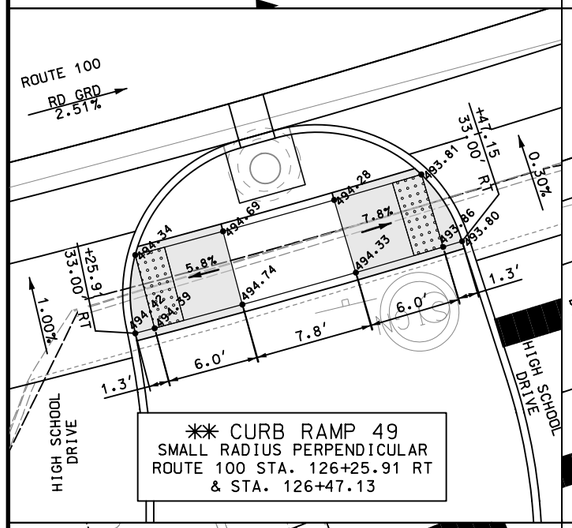
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

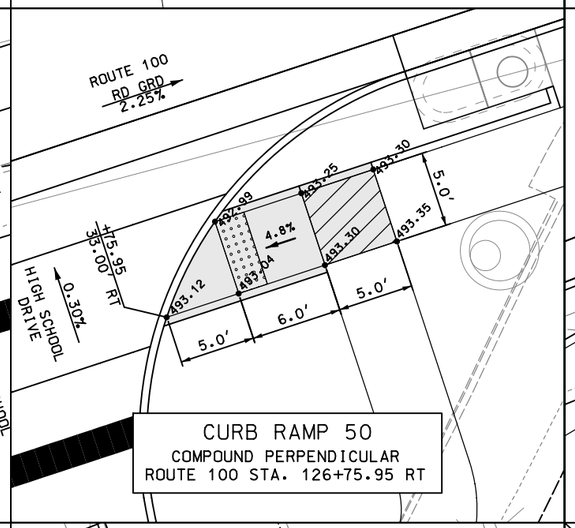
✳PAID FOR AS ONE (1) CURB RAMP.
✳✳PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

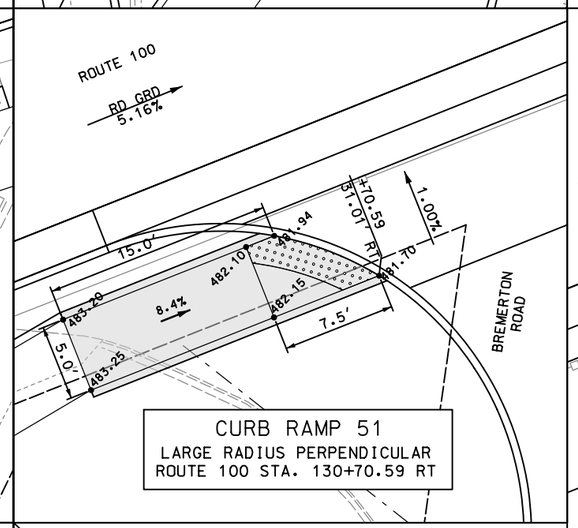
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



✳✳ CURB RAMP 49
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 126+25.91 RT
& STA. 126+47.13



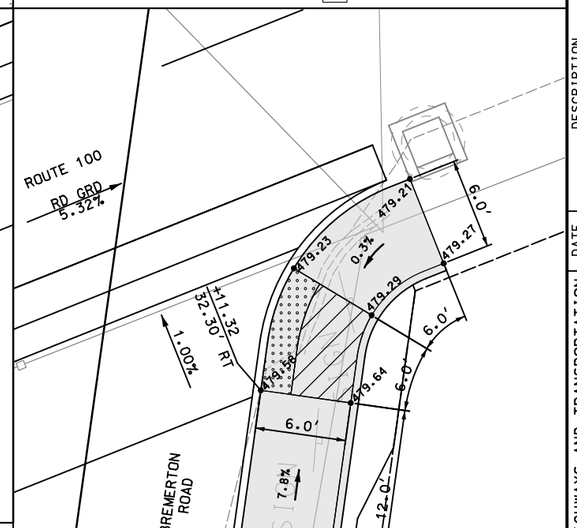
CURB RAMP 50
COMPOUND PERPENDICULAR
ROUTE 100 STA. 126+75.95 RT



CURB RAMP 51
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 130+70.59 RT

CURB RAMP 53
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 131+23.36 LT

CURB RAMP 54
TYPE 1 PARALLEL
ROUTE 100 STA. 131+50.33 LT



CURB RAMP 52
TYPE 2 PARALLEL
ROUTE 100 STA. 131+11.32 RT

DATE PREPARED
3/23/2020
ROUTE: 100 — STATE: MO
DISTRICT: SL — SHEET NO.: 227
COUNTY: ST. LOUIS
JOB NO.: J6S1718/J6S1718B
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION

DATE
.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

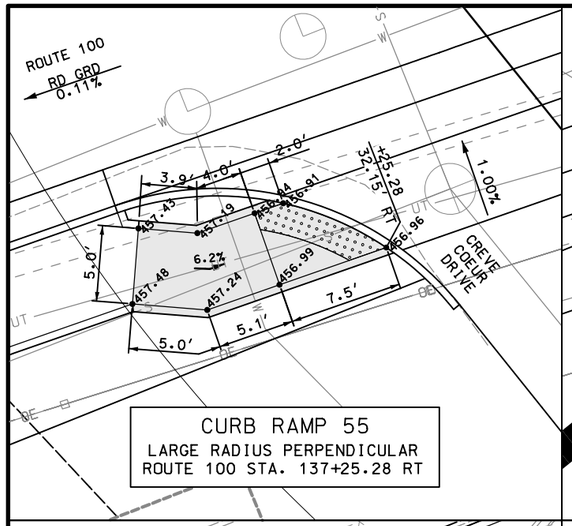
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

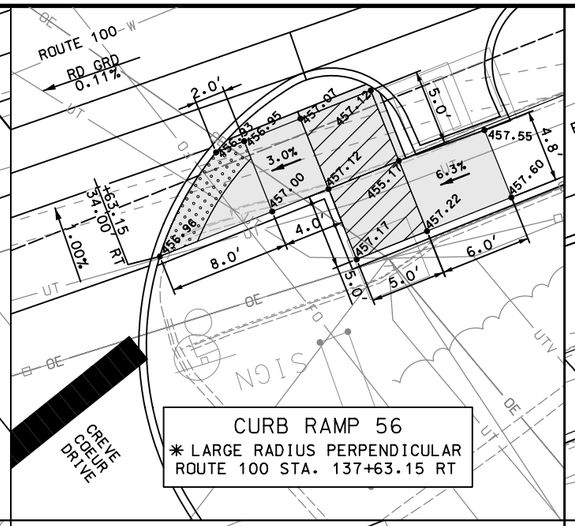
SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 6 OF 19

REV.

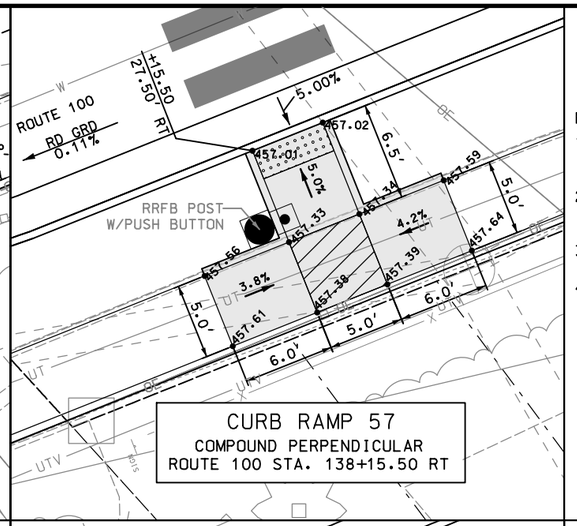
P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\227_SS_CR_06_J6S1718B_I5.dgn 3:52:58 PM 3/23/2020



CURB RAMP 55
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 137+25.28 RT



CURB RAMP 56
✳ LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 137+63.15 RT



CURB RAMP 57
COMPOUND PERPENDICULAR
ROUTE 100 STA. 138+15.50 RT

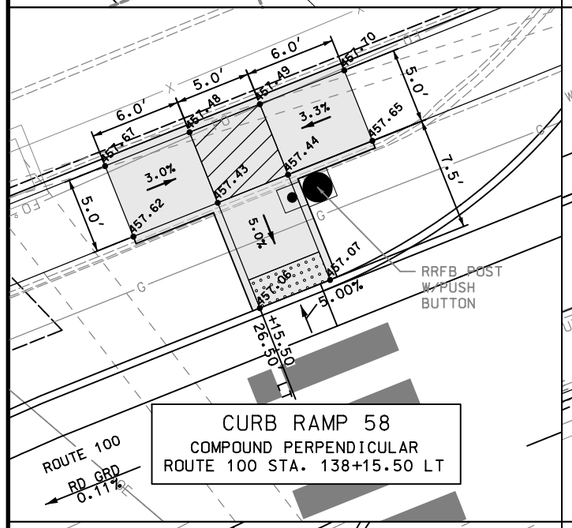
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

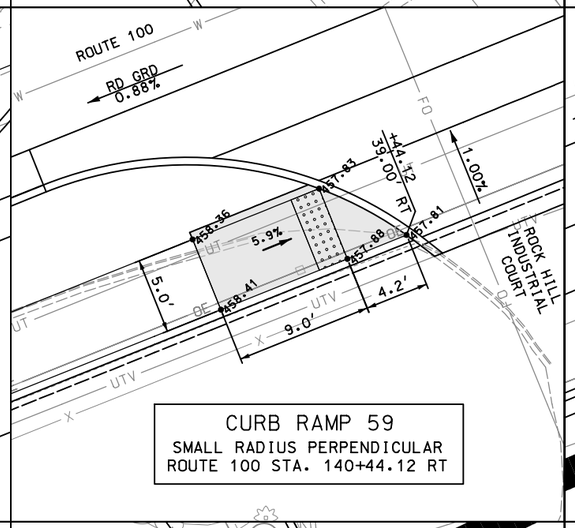
✳PAID FOR AS ONE (1) CURB RAMP.
✳✳PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

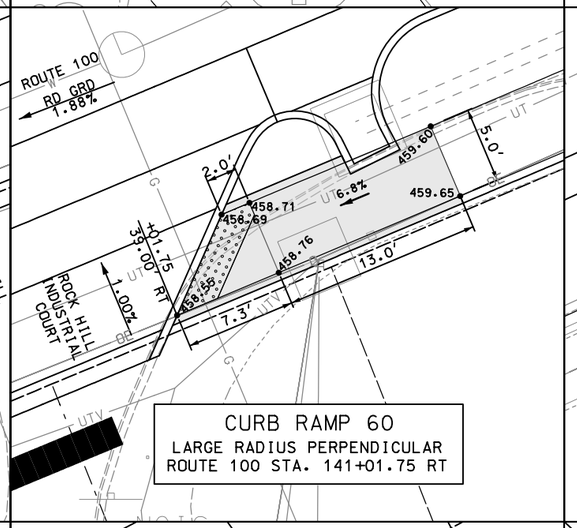
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



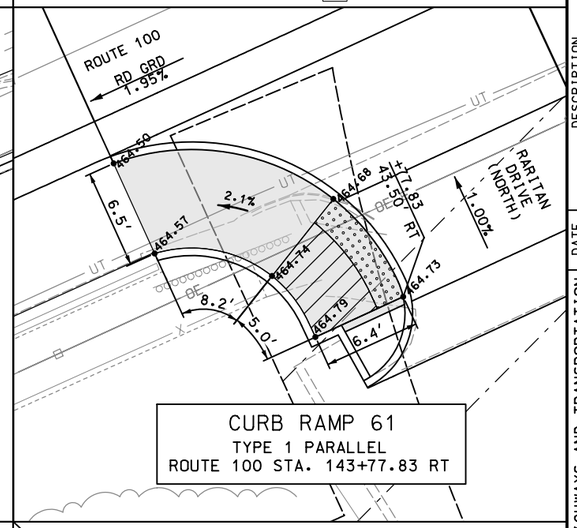
CURB RAMP 58
COMPOUND PERPENDICULAR
ROUTE 100 STA. 138+15.50 LT



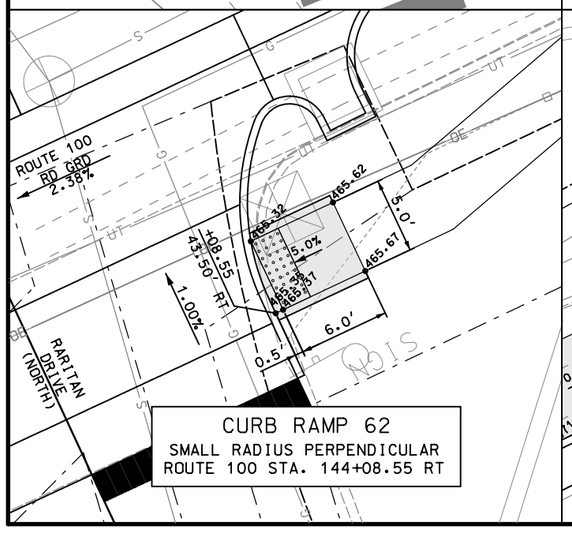
CURB RAMP 59
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 140+44.12 RT



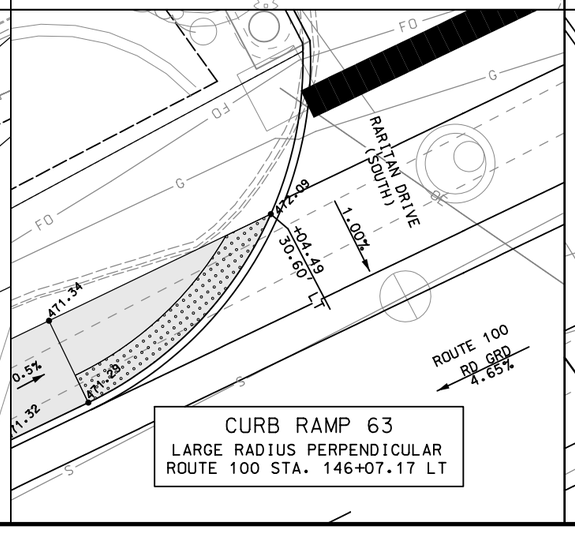
CURB RAMP 60
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 141+01.75 RT



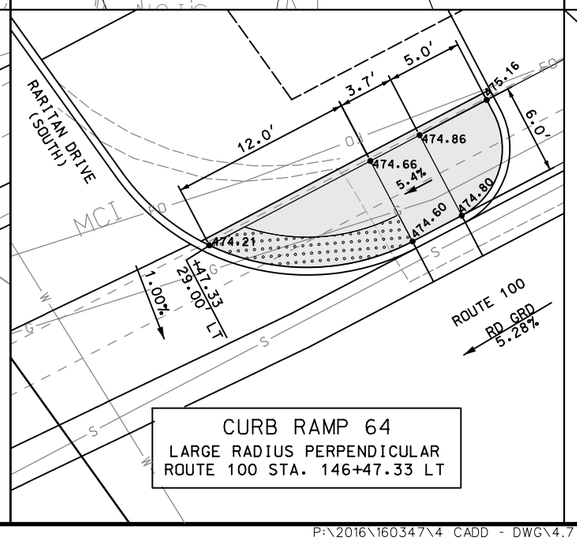
CURB RAMP 61
TYPE 1 PARALLEL
ROUTE 100 STA. 143+77.83 RT



CURB RAMP 62
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 144+08.55 RT



CURB RAMP 63
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 146+07.17 LT



CURB RAMP 64
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 146+47.33 LT

DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	228
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

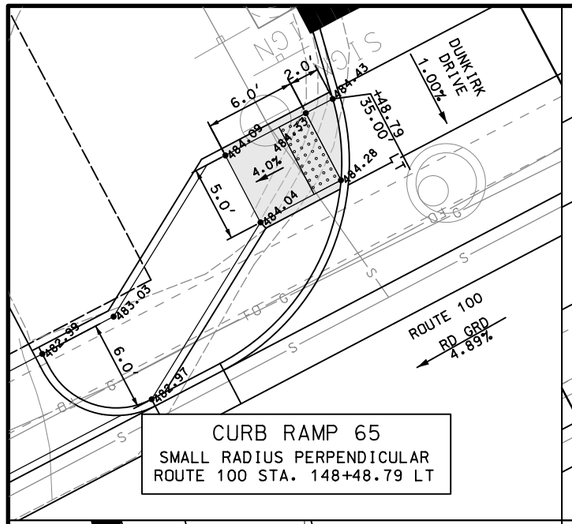
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

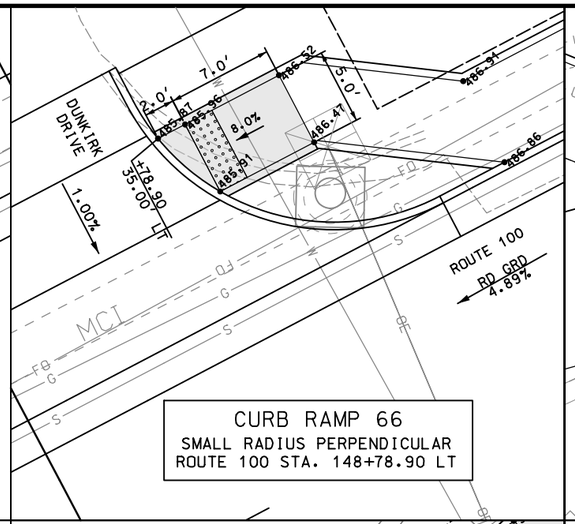
SPECIAL SHEET
.
CURB RAMP DETAILS
.
ROUTE 100
.
SHEET 7 OF 19

REV.

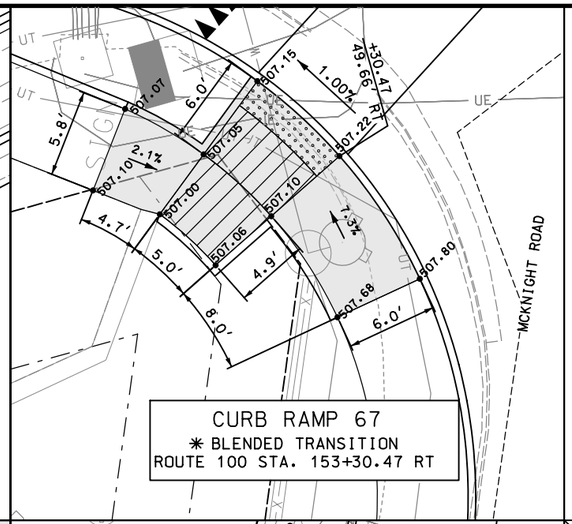
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CURB RAMP 65
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 148+48.79 LT



CURB RAMP 66
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 148+78.90 LT



CURB RAMP 67
✳ BLENDED TRANSITION
ROUTE 100 STA. 153+30.47 RT

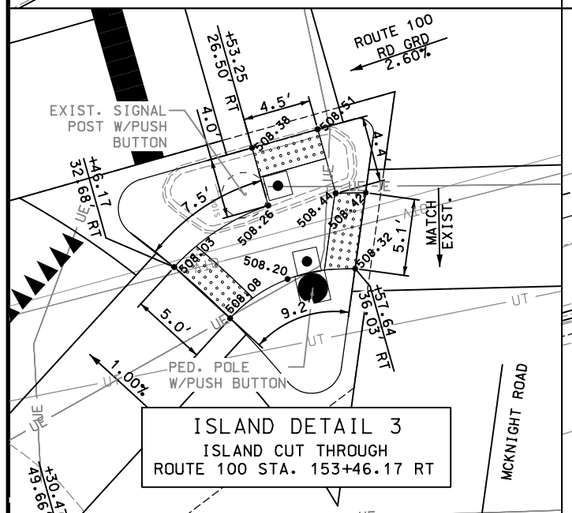
SCALE
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NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

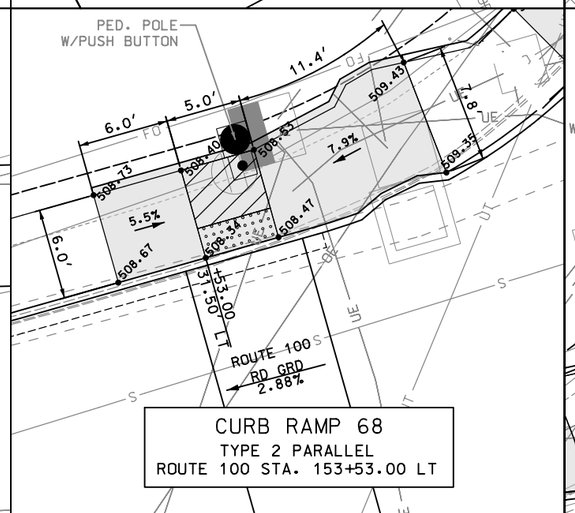
✳PAID FOR AS ONE (1) CURB RAMP.
✳✳PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

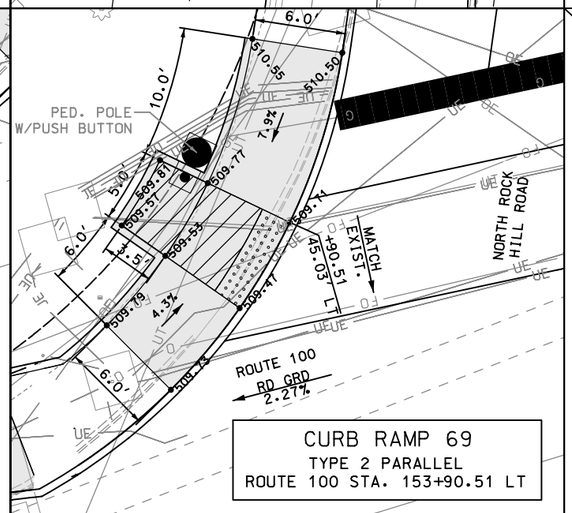
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



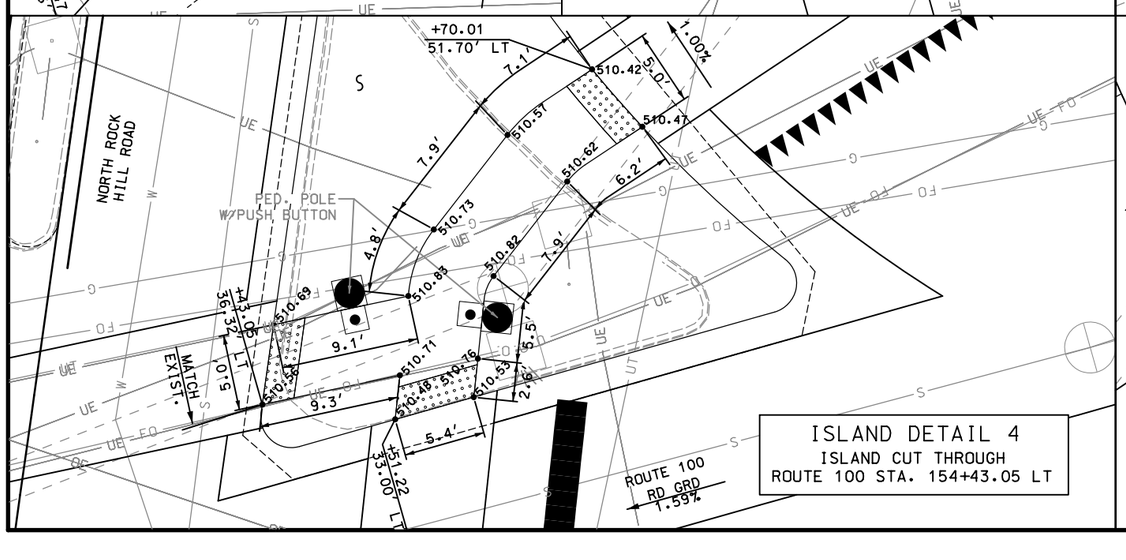
ISLAND DETAIL 3
ISLAND CUT THROUGH
ROUTE 100 STA. 153+46.17 RT



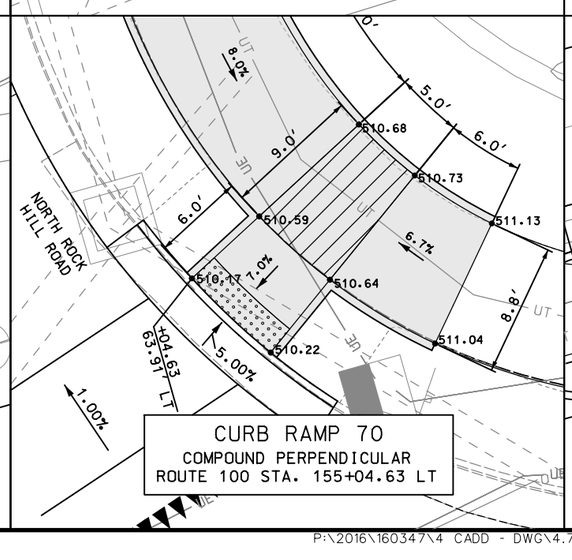
CURB RAMP 68
TYPE 2 PARALLEL
ROUTE 100 STA. 153+53.00 LT



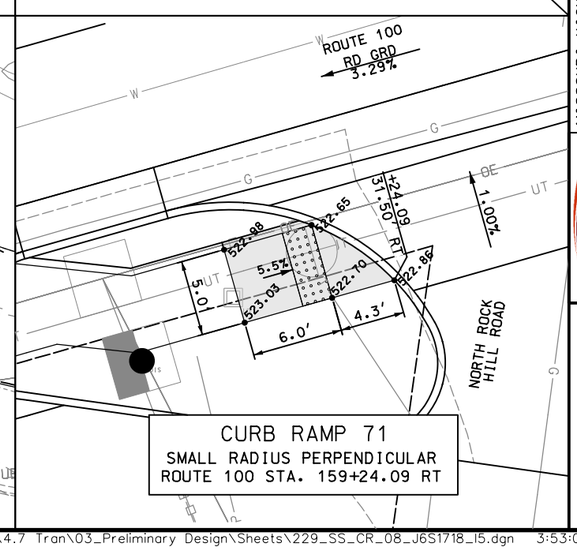
CURB RAMP 69
TYPE 2 PARALLEL
ROUTE 100 STA. 153+90.51 LT



ISLAND DETAIL 4
ISLAND CUT THROUGH
ROUTE 100 STA. 154+43.05 LT



CURB RAMP 70
COMPOUND PERPENDICULAR
ROUTE 100 STA. 155+04.63 LT



CURB RAMP 71
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 159+24.09 RT

DATE PREPARED
3/23/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	229

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

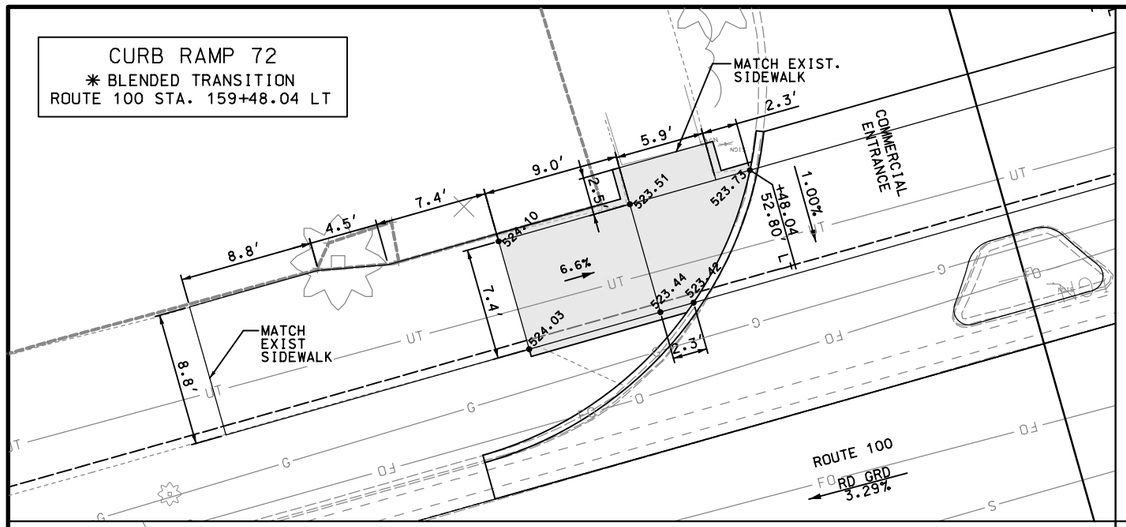
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6800
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

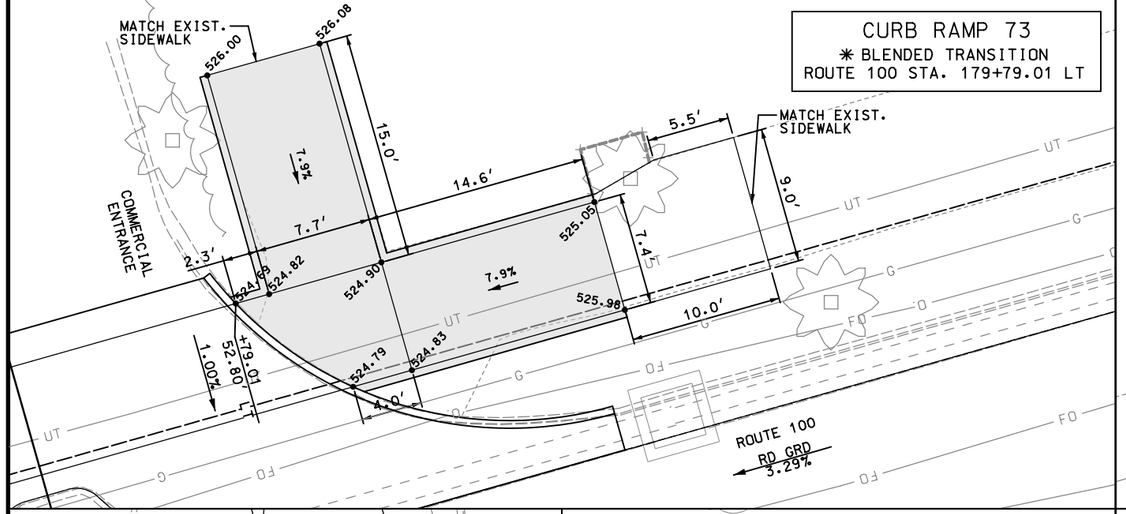
SPECIAL SHEET
CURB RAMP DETAILS
ROUTE 100
SHEET 8 OF 19

REV.



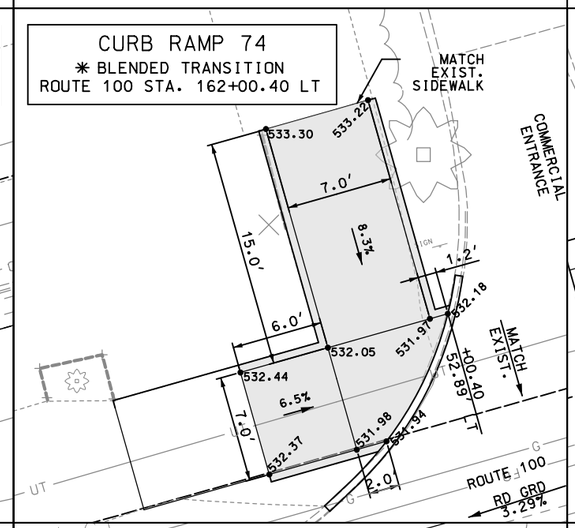
CURB RAMP 72

✳ BLENDED TRANSITION
ROUTE 100 STA. 159+48.04 LT



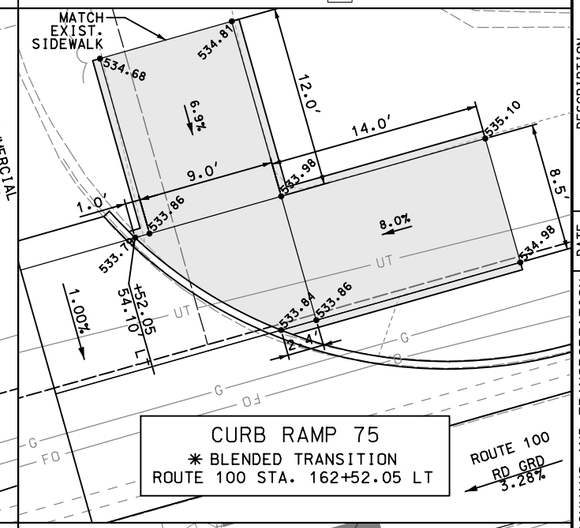
CURB RAMP 73

✳ BLENDED TRANSITION
ROUTE 100 STA. 179+79.01 LT



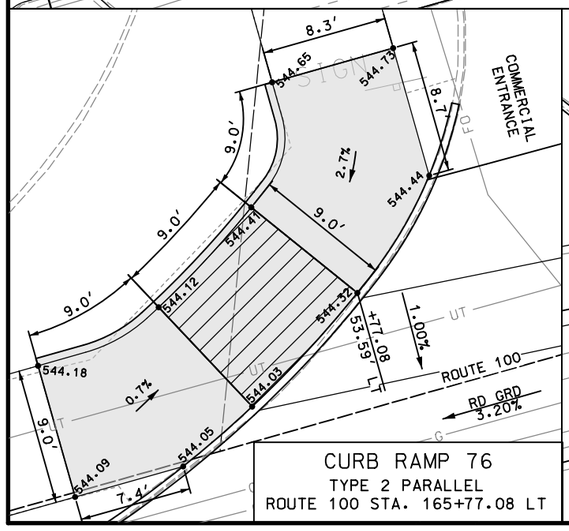
CURB RAMP 74

✳ BLENDED TRANSITION
ROUTE 100 STA. 162+00.40 LT



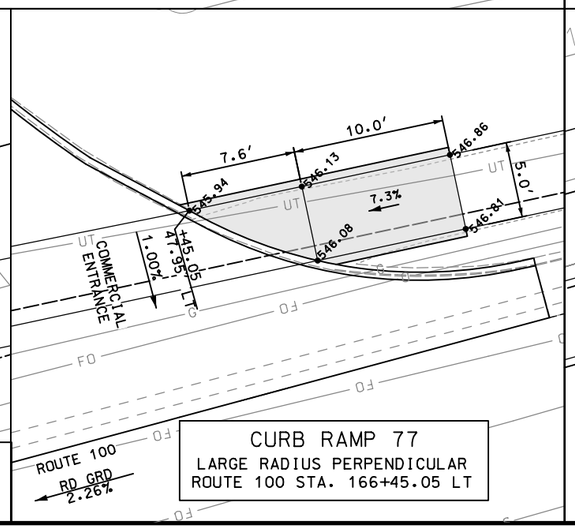
CURB RAMP 75

✳ BLENDED TRANSITION
ROUTE 100 STA. 162+52.05 LT



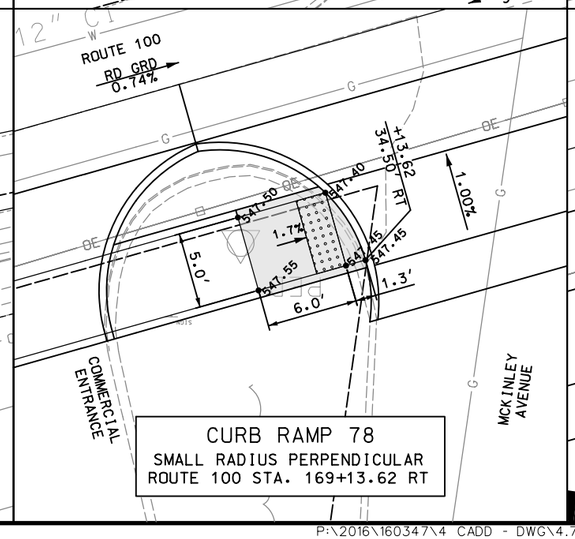
CURB RAMP 76

TYPE 2 PARALLEL
ROUTE 100 STA. 165+77.08 LT



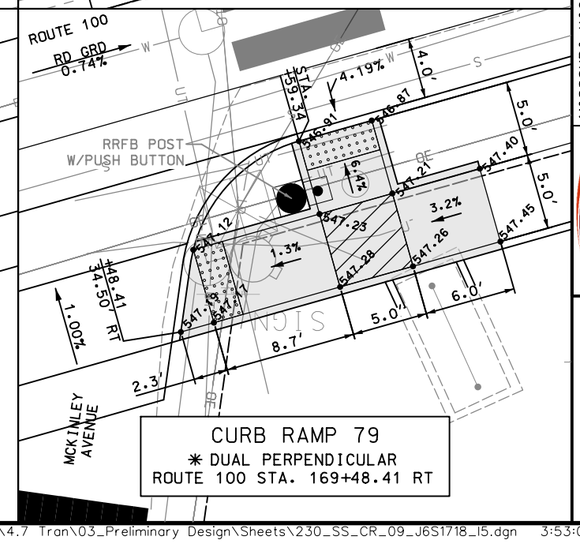
CURB RAMP 77

LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 166+45.05 LT



CURB RAMP 78

SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 169+13.62 RT



CURB RAMP 79

✳ DUAL PERPENDICULAR
ROUTE 100 STA. 169+48.41 RT

SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

✳PAID FOR AS ONE (1) CURB RAMP.
✳✳PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON

DESCRIPTION | DATE

DATE PREPARED 3/23/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 230
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

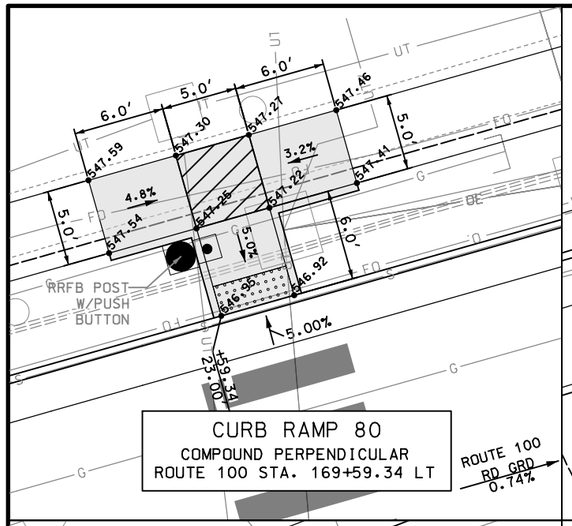
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

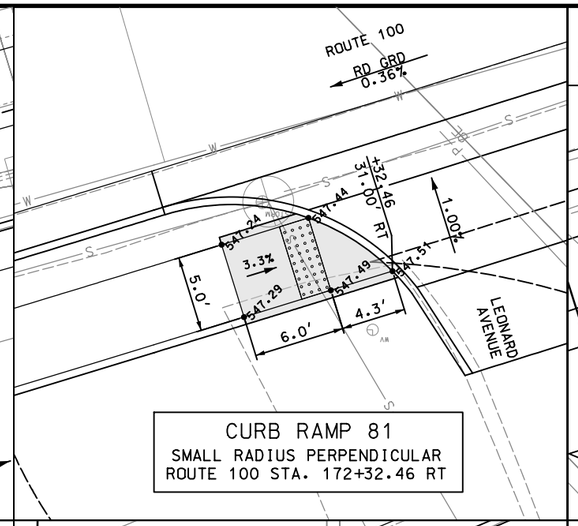
SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 9 OF 19

REV. .

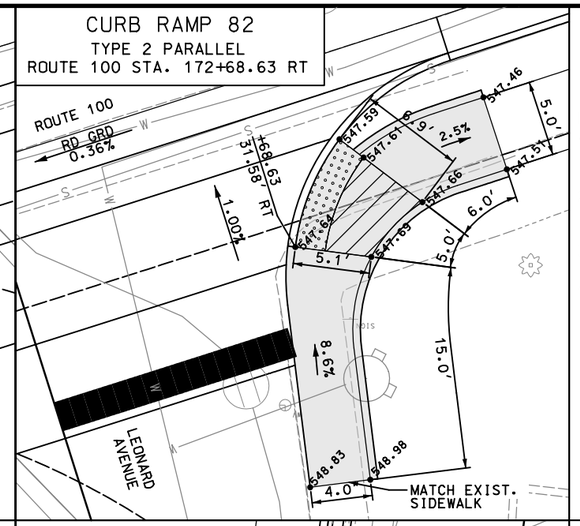
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CURB RAMP 80
COMPOUND PERPENDICULAR
ROUTE 100 STA. 169+59.34 LT



CURB RAMP 81
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 172+32.46 RT



CURB RAMP 82
TYPE 2 PARALLEL
ROUTE 100 STA. 172+68.63 RT

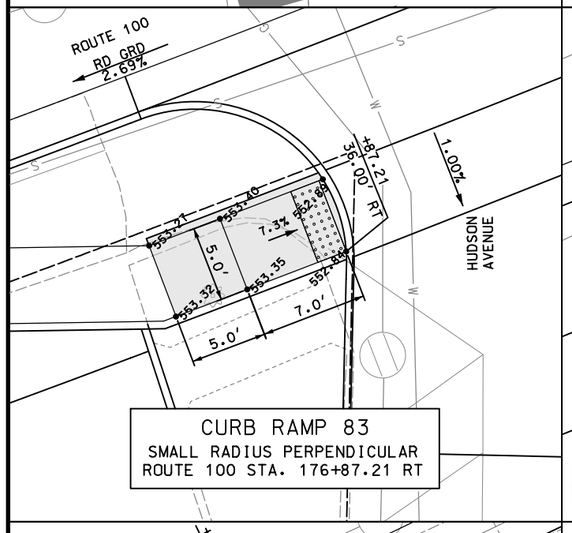
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

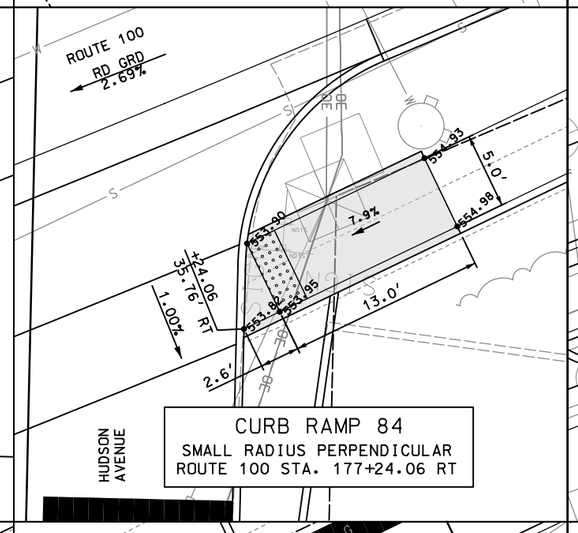
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

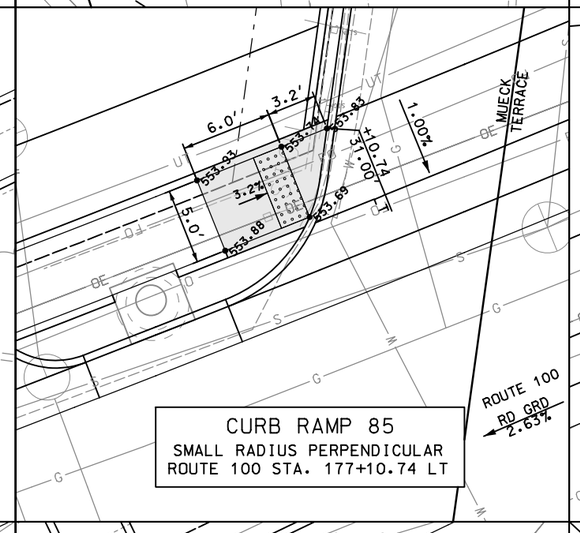
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



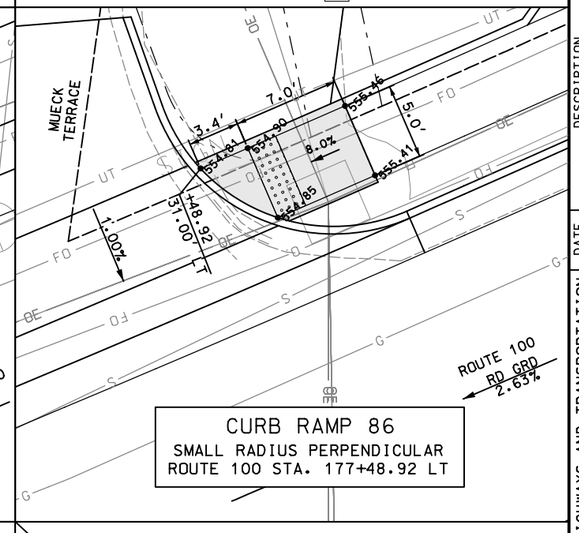
CURB RAMP 83
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 176+87.21 RT



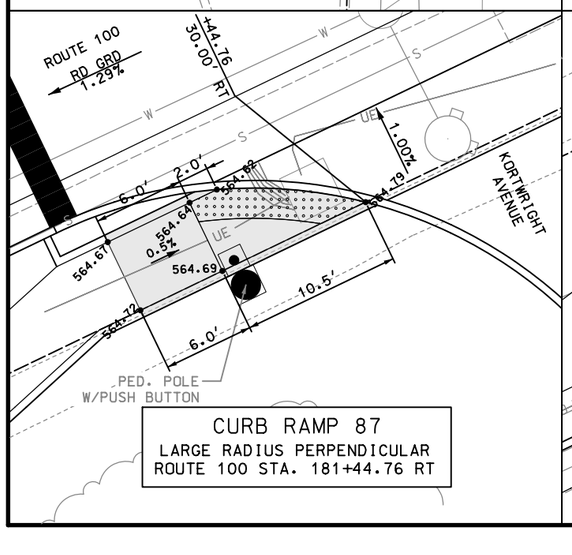
CURB RAMP 84
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 177+24.06 RT



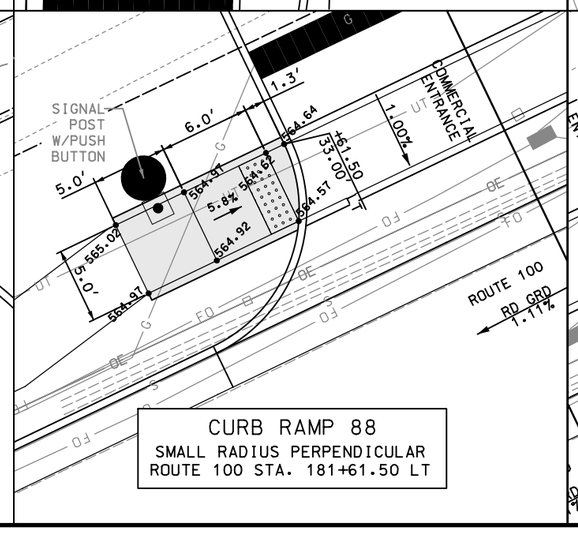
CURB RAMP 85
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 177+10.74 LT



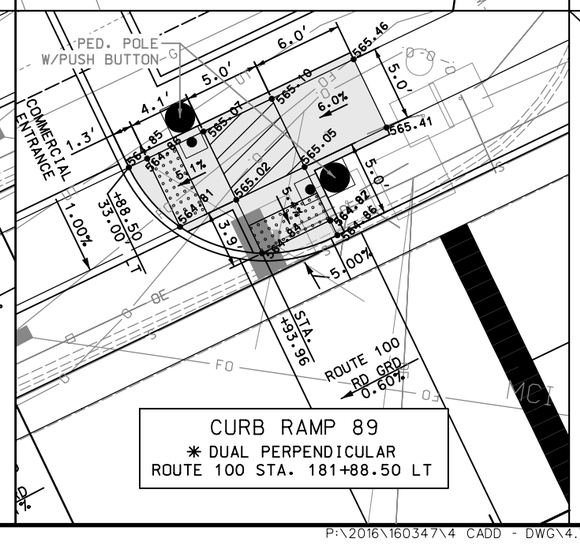
CURB RAMP 86
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 177+48.92 LT



CURB RAMP 87
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 181+44.76 RT



CURB RAMP 88
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 181+61.50 LT



CURB RAMP 89
* DUAL PERPENDICULAR
ROUTE 100 STA. 181+88.50 LT

DATE PREPARED
3/23/2020
ROUTE: 100 — STATE: MO
DISTRICT: SL — SHEET NO.: 231
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

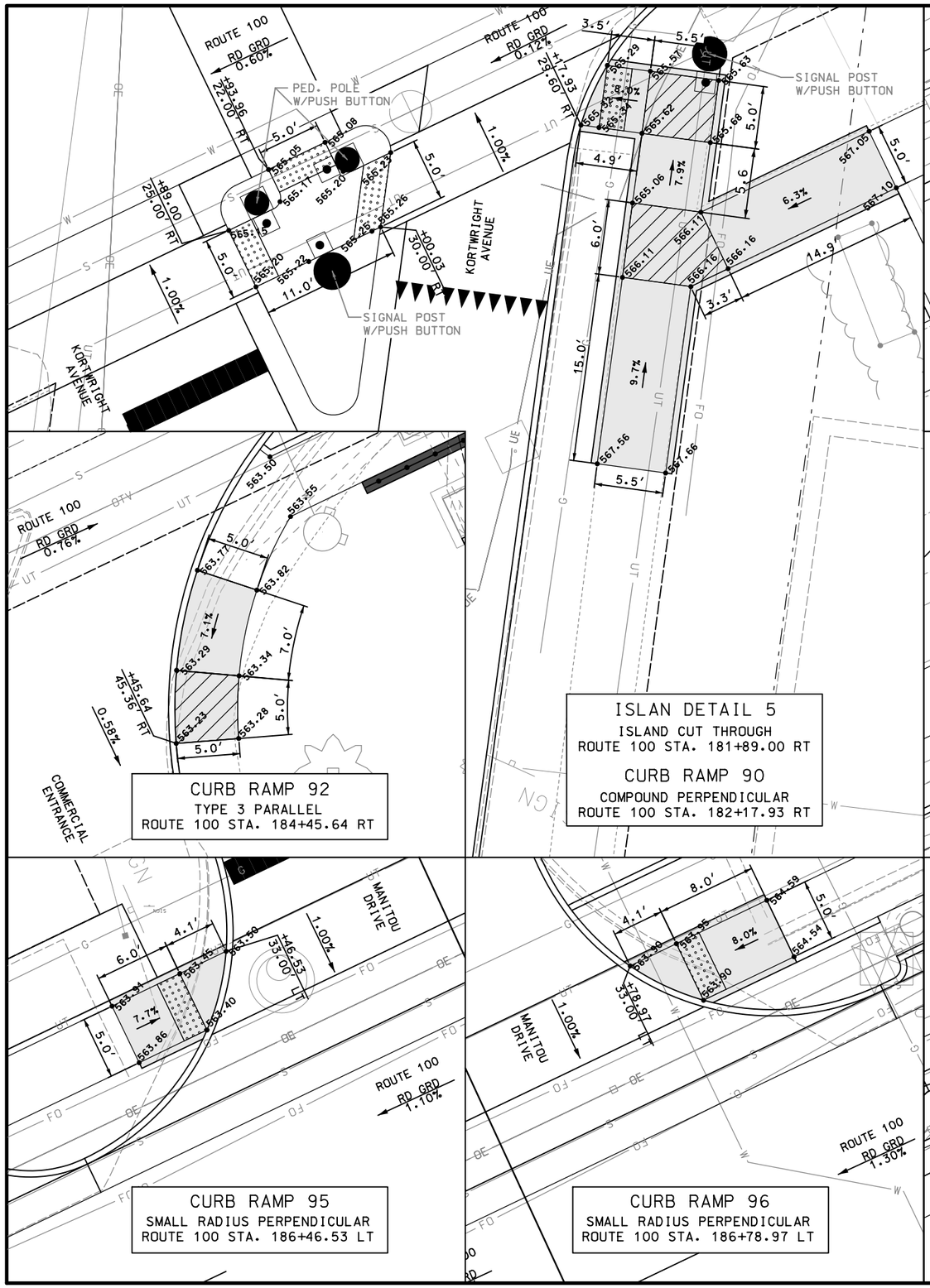
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 10 OF 19

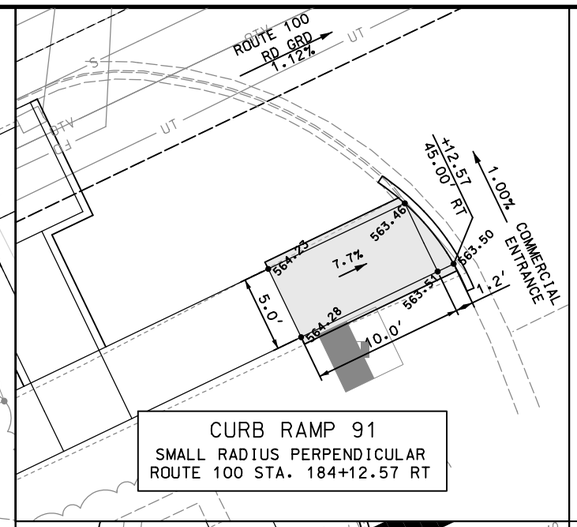
REV.

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ISLAN DETAIL 5
ISLAND CUT THROUGH
ROUTE 100 STA. 181+89.00 RT

CURB RAMP 90
COMPOUND PERPENDICULAR
ROUTE 100 STA. 182+17.93 RT



CURB RAMP 91
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 184+12.57 RT

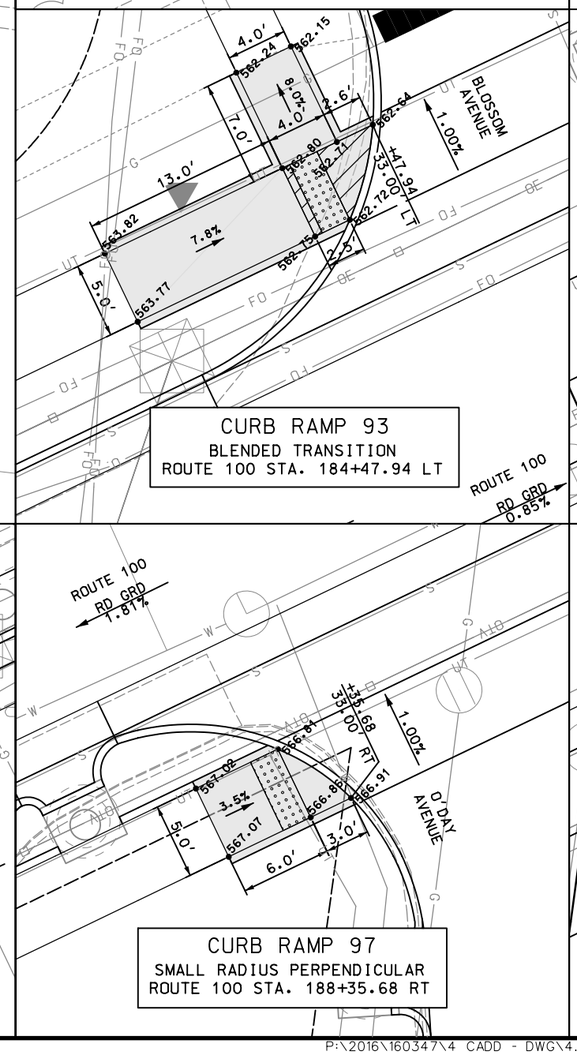
NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

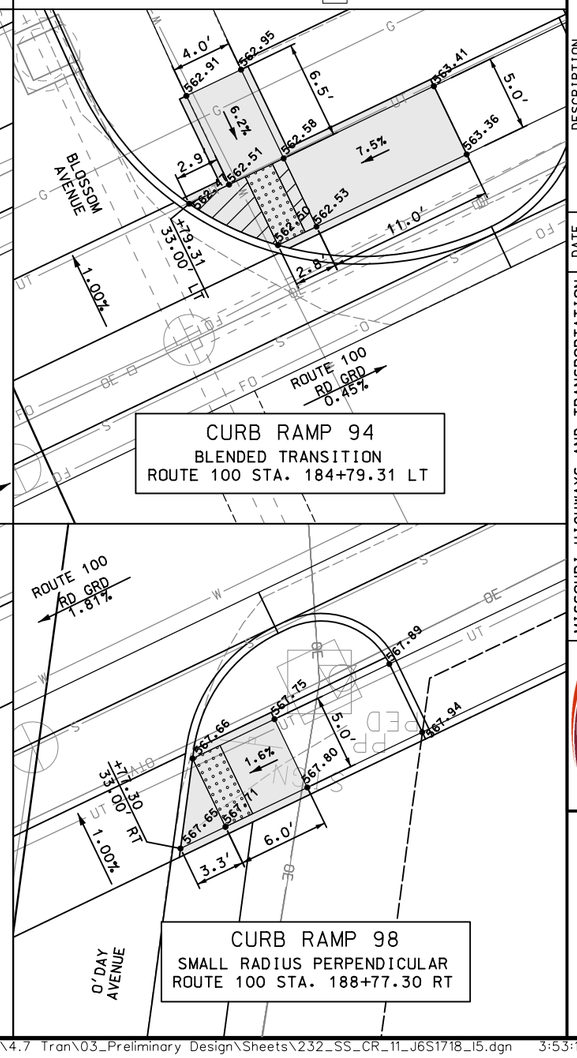
SCALE
0 5 10 15

LEGEND
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON

CURB RAMP 92
TYPE 3 PARALLEL
ROUTE 100 STA. 184+45.64 RT



CURB RAMP 93
BLENDED TRANSITION
ROUTE 100 STA. 184+47.94 LT



CURB RAMP 94
BLENDED TRANSITION
ROUTE 100 STA. 184+79.31 LT

CURB RAMP 95
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 186+46.53 LT

CURB RAMP 96
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 186+78.97 LT

CURB RAMP 97
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 188+35.68 RT

CURB RAMP 98
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 188+77.30 RT

DATE PREPARED
3/23/2020
ROUTE: 100 — STATE: MO
DISTRICT: SL — SHEET NO.: 232
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
.	.

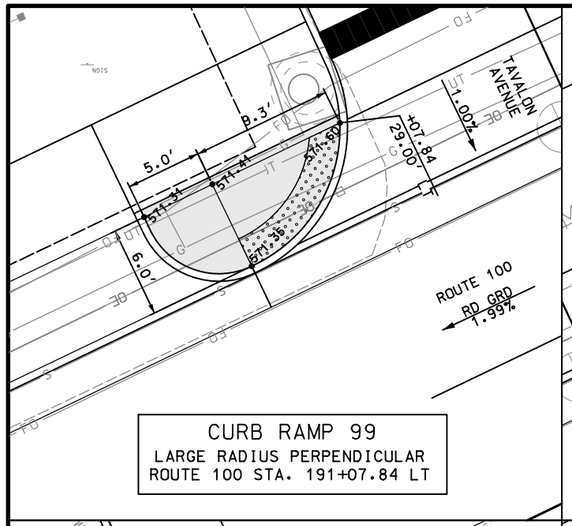
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
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MISSOURI CERT. OF AUTHORITY: 001528

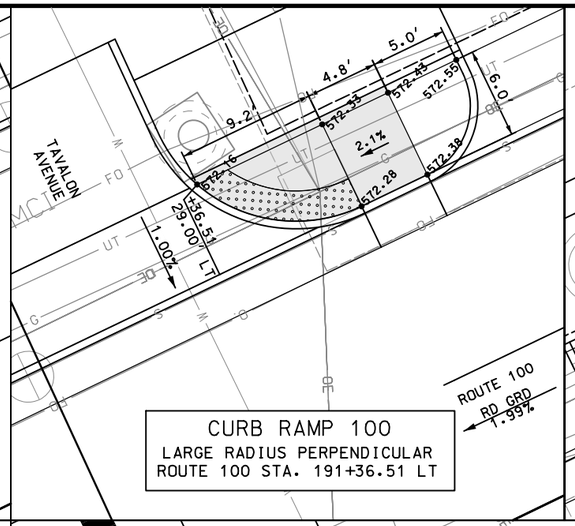
SPECIAL SHEET . CURB RAMP DETAILS . ROUTE 100 . SHEET 11 OF 19

REV. .

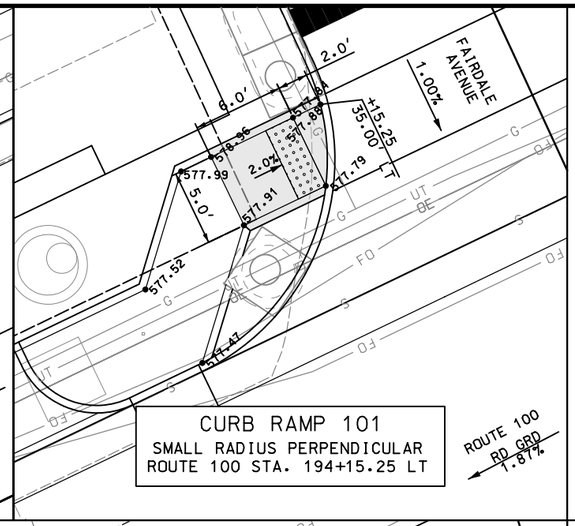
P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\232_SS_CR_11_J6S1718_I5.dgn 3:53:15 PM 3/23/2020



CURB RAMP 99
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 191+07.84 LT



CURB RAMP 100
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 191+36.51 LT



CURB RAMP 101
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 194+15.25 LT

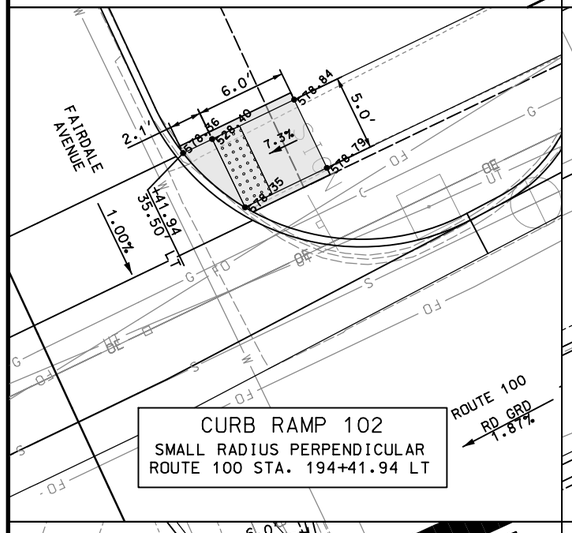
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

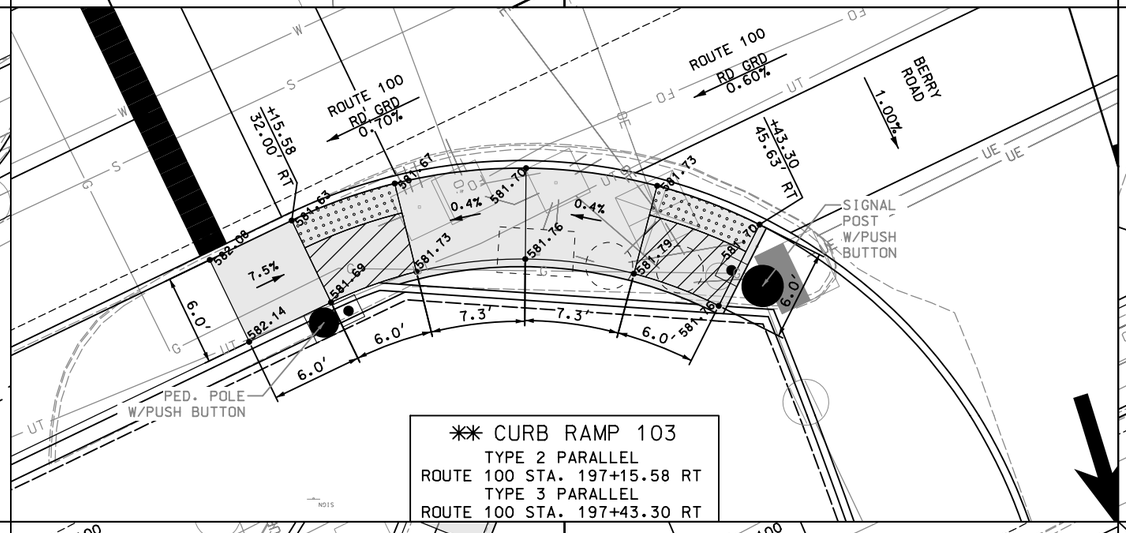
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

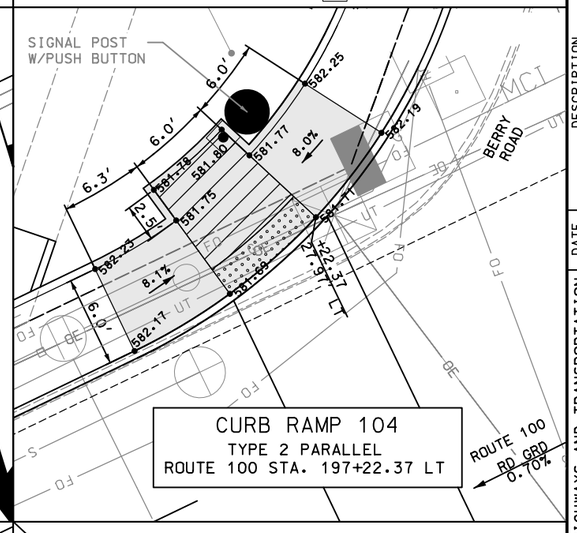
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



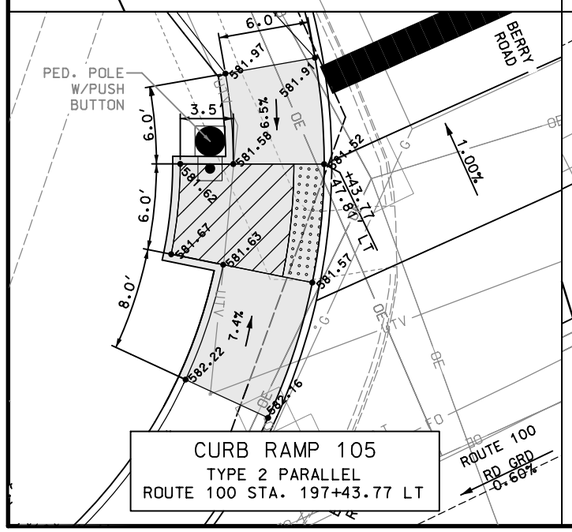
CURB RAMP 102
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 194+41.94 LT



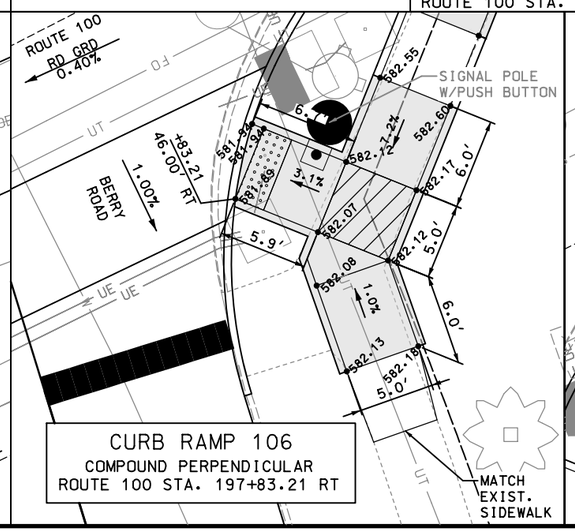
✳✳ CURB RAMP 103
TYPE 2 PARALLEL
ROUTE 100 STA. 197+15.58 RT
TYPE 3 PARALLEL
ROUTE 100 STA. 197+43.30 RT



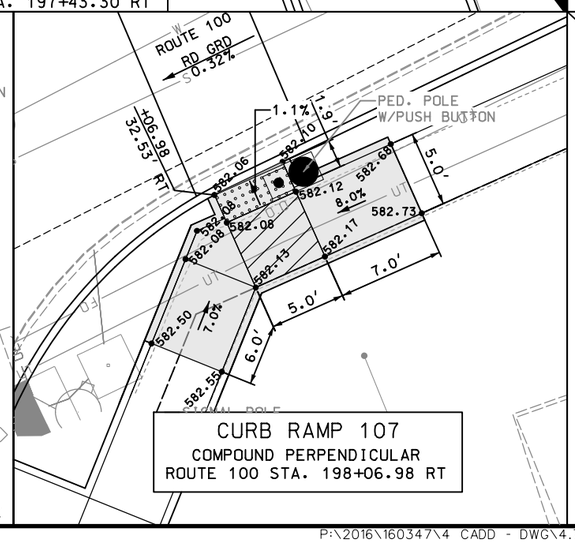
CURB RAMP 104
TYPE 2 PARALLEL
ROUTE 100 STA. 197+22.37 LT



CURB RAMP 105
TYPE 2 PARALLEL
ROUTE 100 STA. 197+43.77 LT



CURB RAMP 106
COMPOUND PERPENDICULAR
ROUTE 100 STA. 197+83.21 RT



CURB RAMP 107
COMPOUND PERPENDICULAR
ROUTE 100 STA. 198+06.98 RT

DATE PREPARED
3/23/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	233

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

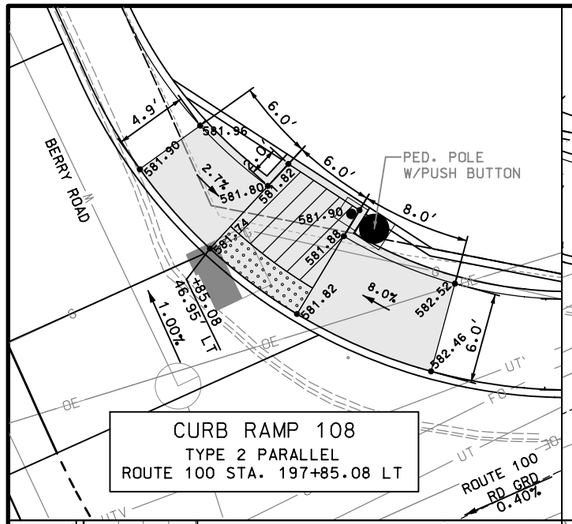
DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

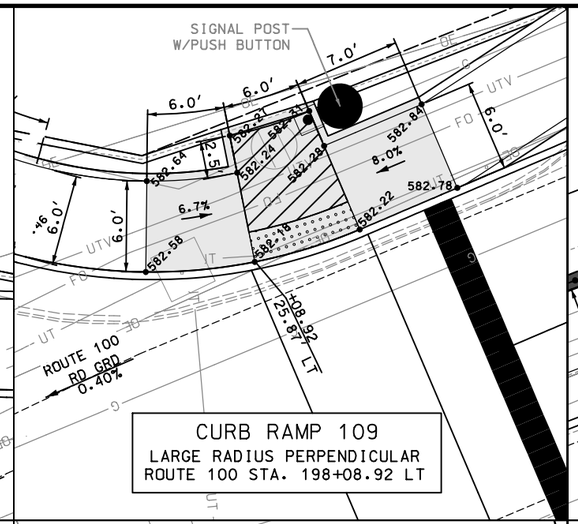
TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET
.
CURB RAMP DETAILS
.
ROUTE 100
.
SHEET 12 OF 19

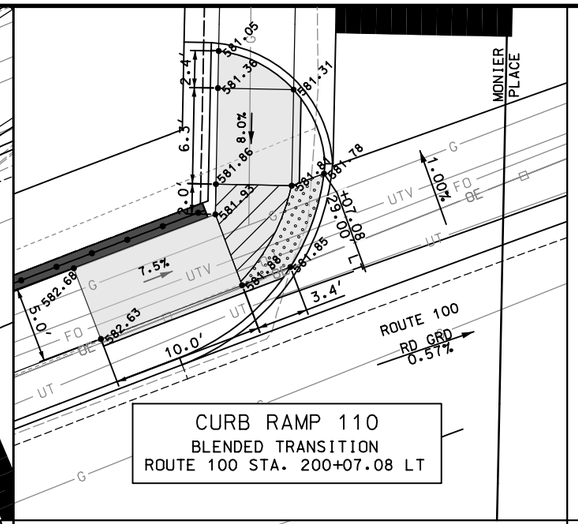
REV.



CURB RAMP 108
TYPE 2 PARALLEL
ROUTE 100 STA. 197+85.08 LT



CURB RAMP 109
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 198+08.92 LT



CURB RAMP 110
BLENDED TRANSITION
ROUTE 100 STA. 200+07.08 LT

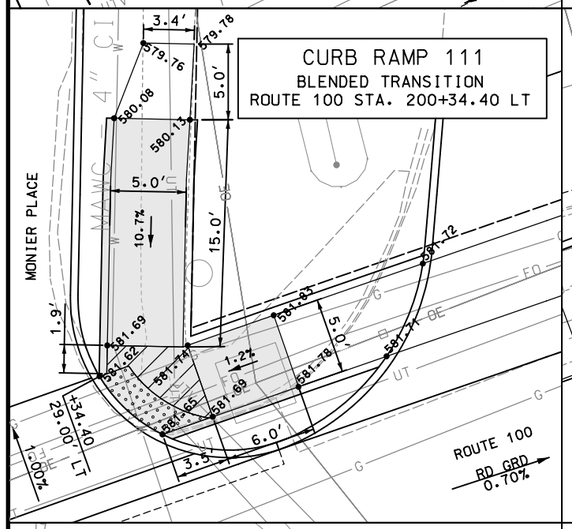
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

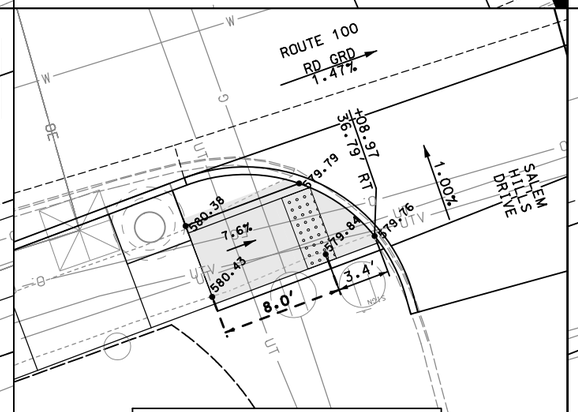
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

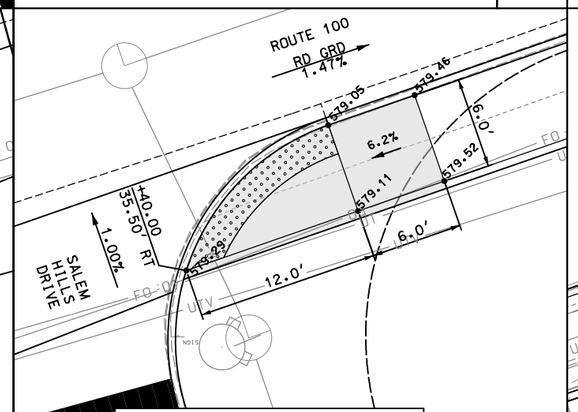
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



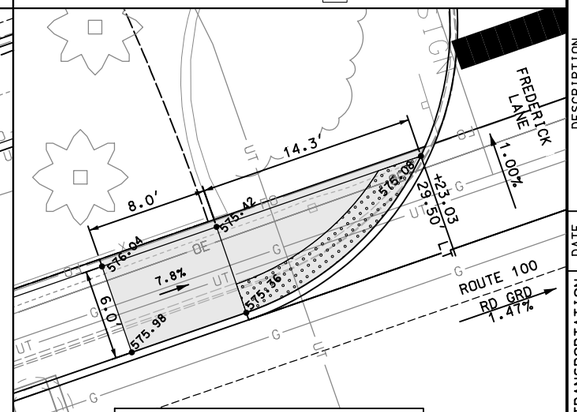
CURB RAMP 111
BLENDED TRANSITION
ROUTE 100 STA. 200+34.40 LT



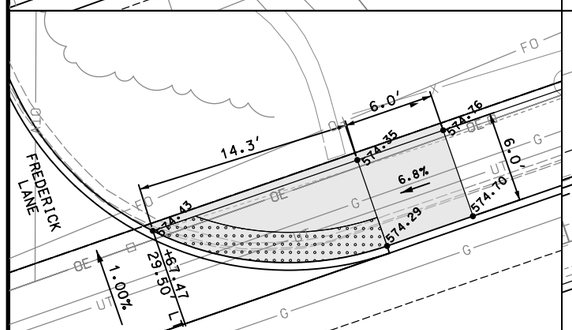
CURB RAMP 112
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 202+08.97 RT



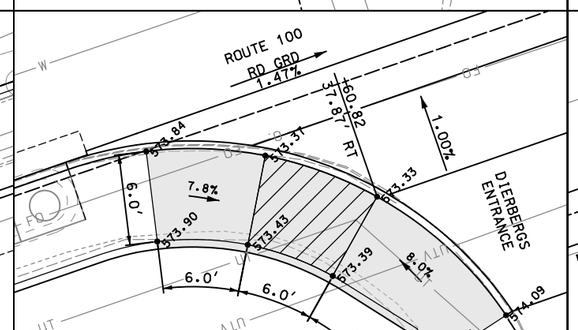
CURB RAMP 113
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 202+39.99 RT



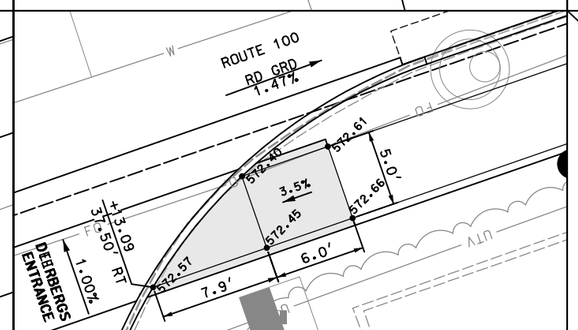
CURB RAMP 114
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 205+23.03 LT



CURB RAMP 115
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 205+67.47 LT



CURB RAMP 116
TYPE 2 PARALLEL
ROUTE 100 STA. 206+60.82 RT



CURB RAMP 117
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 207+13.09 RT

DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	234
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

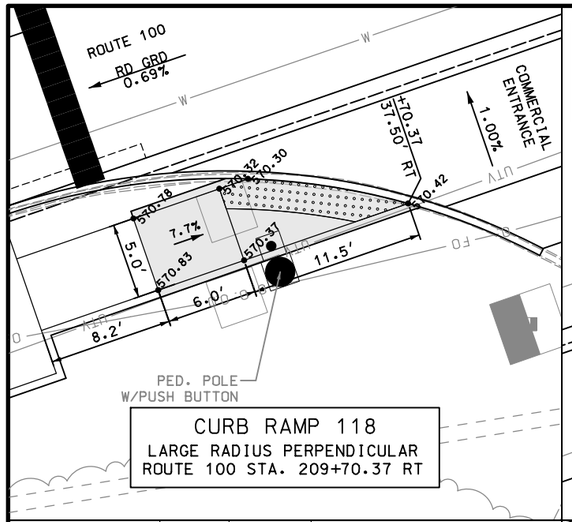
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

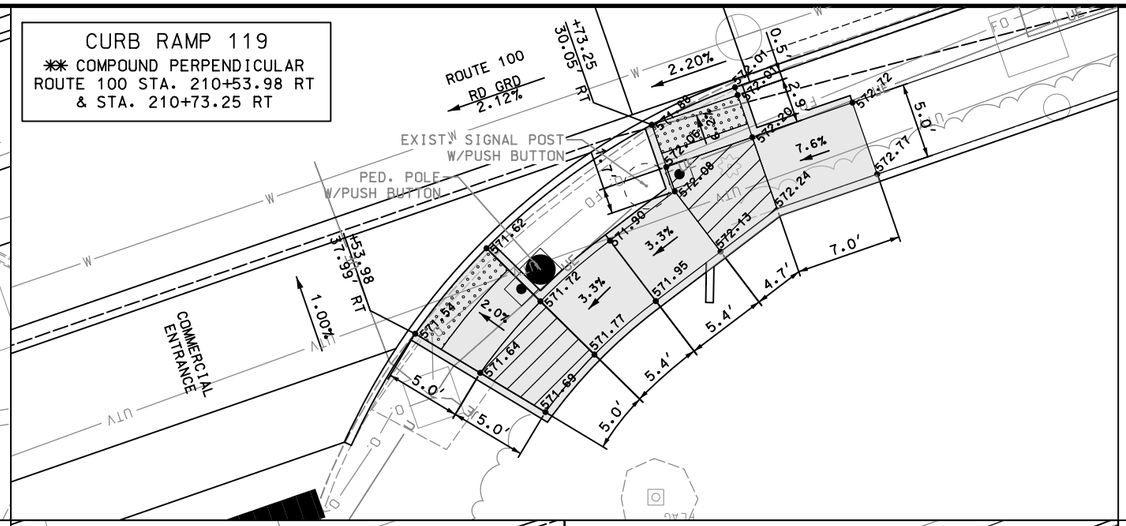
SPECIAL SHEET
.
CURB RAMP DETAILS
.
ROUTE 100
.
SHEET 13 OF 18

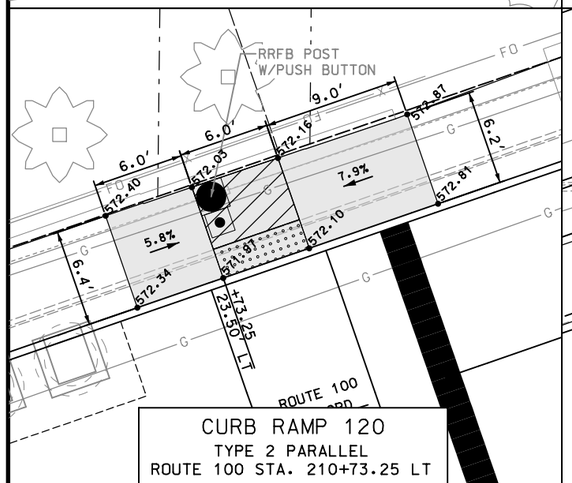
REV.

P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\234_SS_CR_13_J6S1718_I5.dgn 3:53:20 PM 3/23/2020

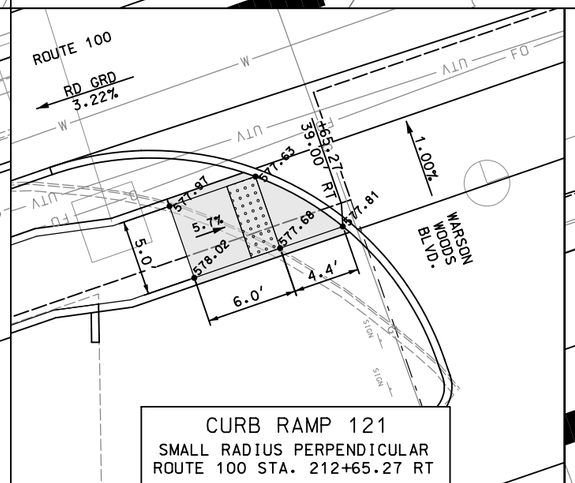


CURB RAMP 118
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 209+70.37 RT

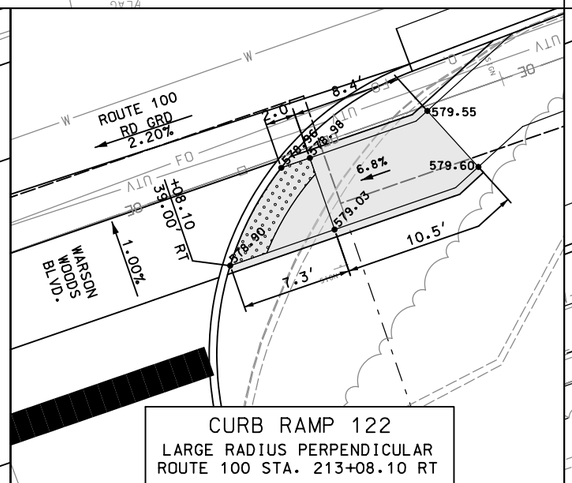




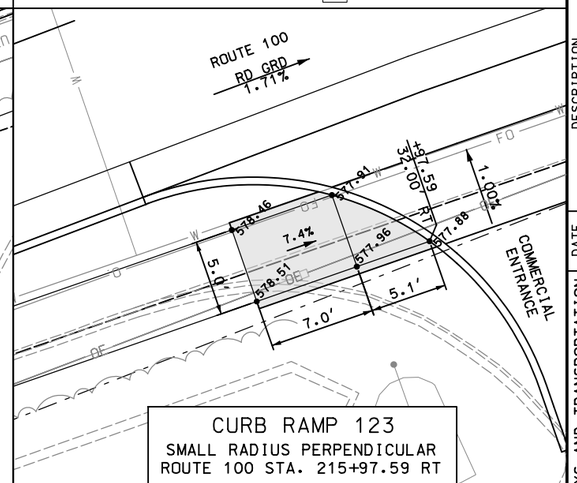
CURB RAMP 120
TYPE 2 PARALLEL
ROUTE 100 STA. 210+73.25 LT



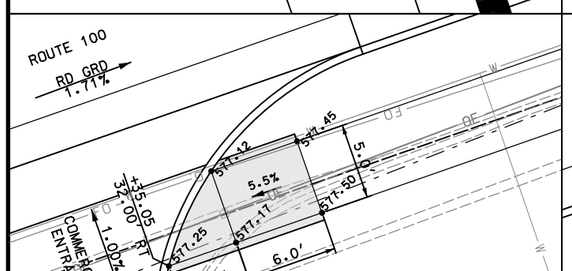
CURB RAMP 121
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 212+65.27 RT



CURB RAMP 122
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 213+08.10 RT



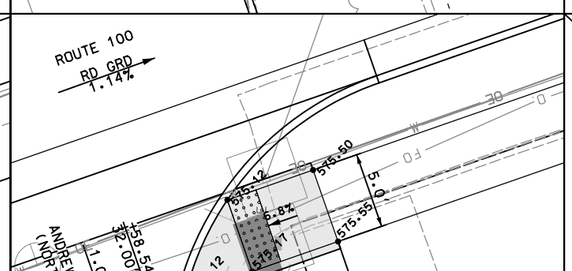
CURB RAMP 123
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 215+97.59 RT



CURB RAMP 124
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 216+35.05 RT



CURB RAMP 125
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 217+23.94 RT



CURB RAMP 126
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 217+58.54 RT

SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON

DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	235
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

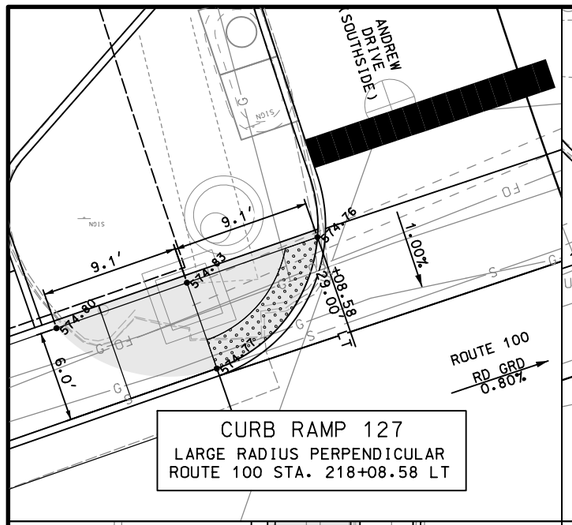
DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

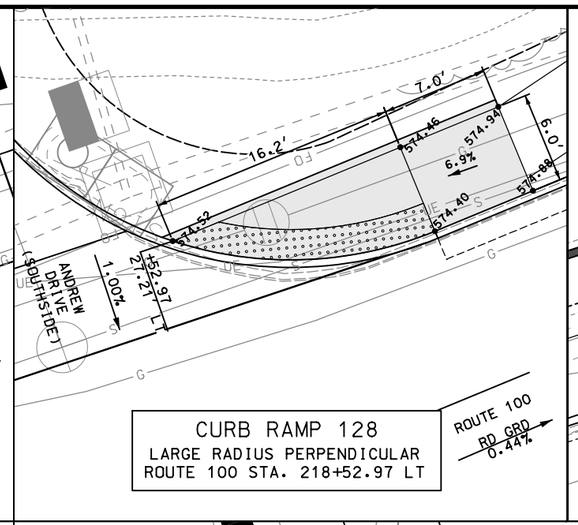
TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
CURB RAMP DETAILS
ROUTE 100
SHEET 14 OF 19

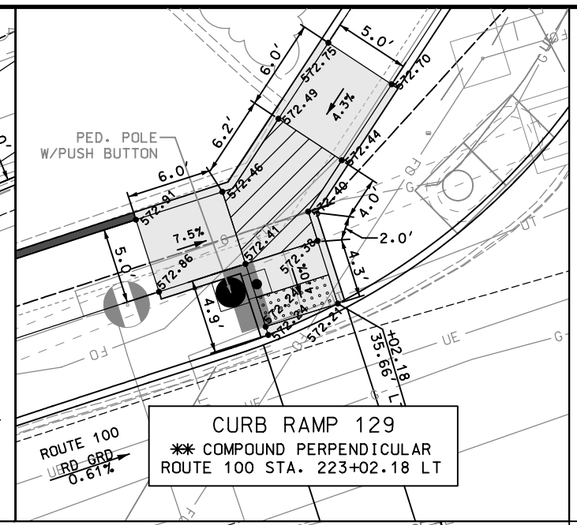
P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\235_SS_CR_14_J6S1718_I5.dgn 3:53:23 PM 3/23/2020



CURB RAMP 127
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 218+08.58 LT



CURB RAMP 128
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 218+52.97 LT



CURB RAMP 129
** COMPOUND PERPENDICULAR
ROUTE 100 STA. 223+02.18 LT

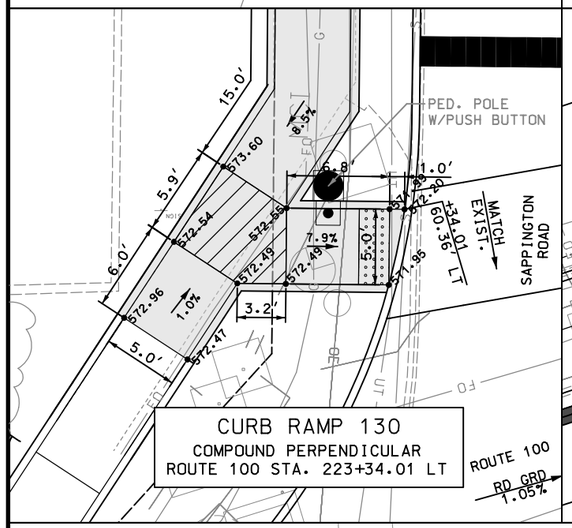
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

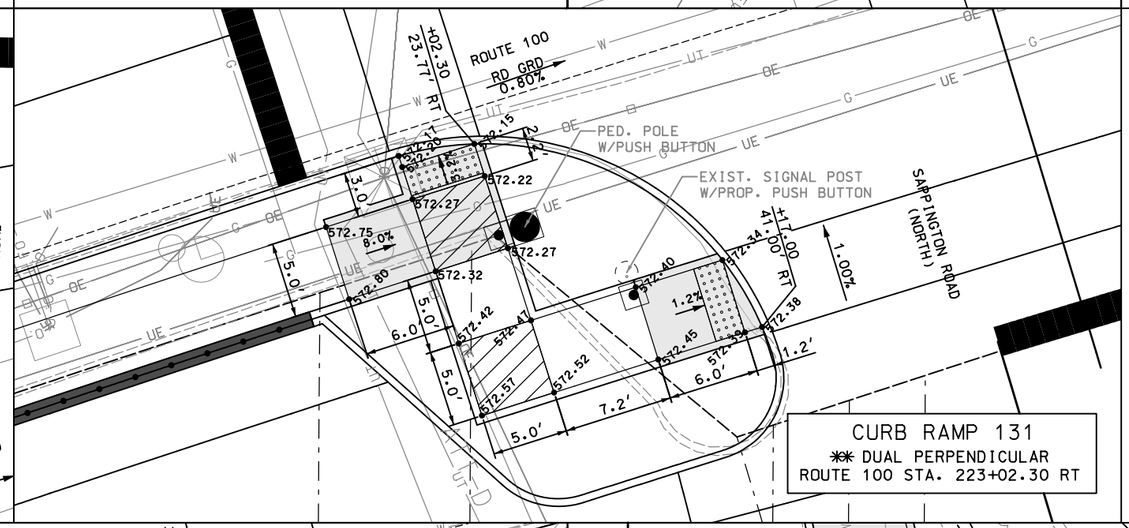
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

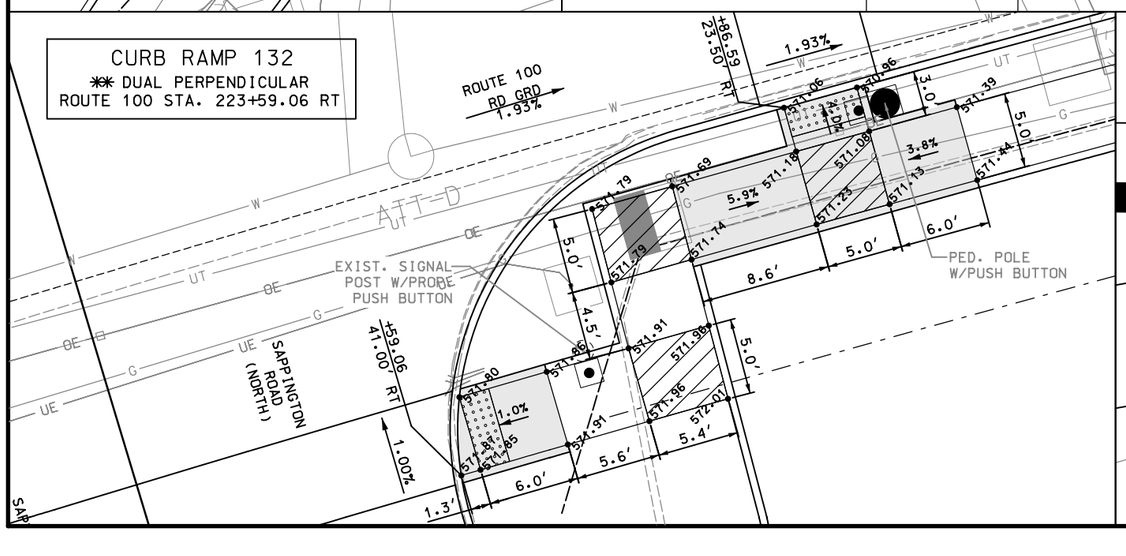
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



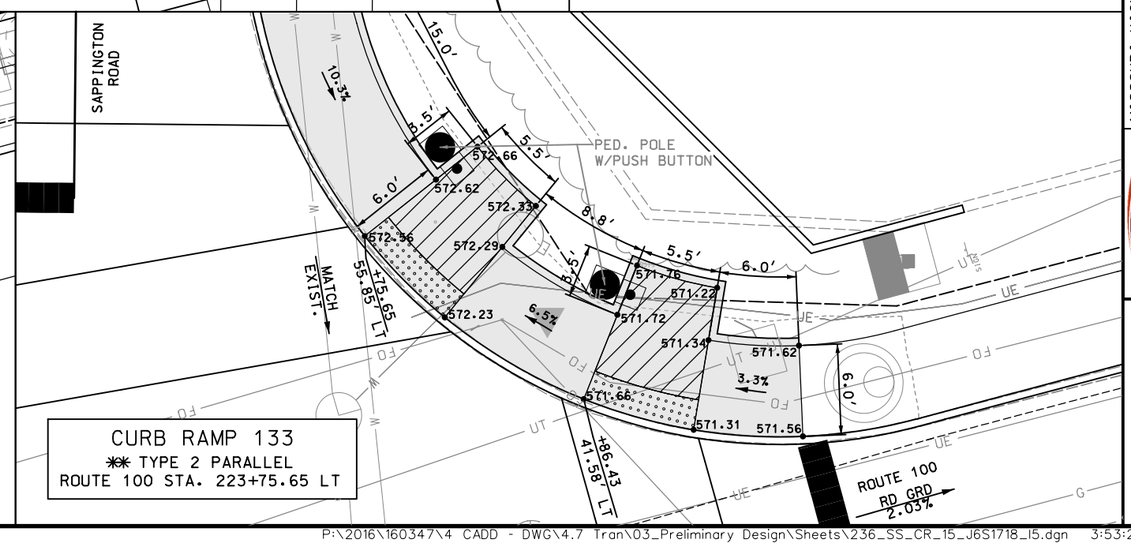
CURB RAMP 130
COMPOUND PERPENDICULAR
ROUTE 100 STA. 223+34.01 LT



CURB RAMP 131
** DUAL PERPENDICULAR
ROUTE 100 STA. 223+02.30 RT



CURB RAMP 132
** DUAL PERPENDICULAR
ROUTE 100 STA. 223+59.06 RT



CURB RAMP 133
** TYPE 2 PARALLEL
ROUTE 100 STA. 223+75.65 LT

DATE PREPARED
3/23/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	236

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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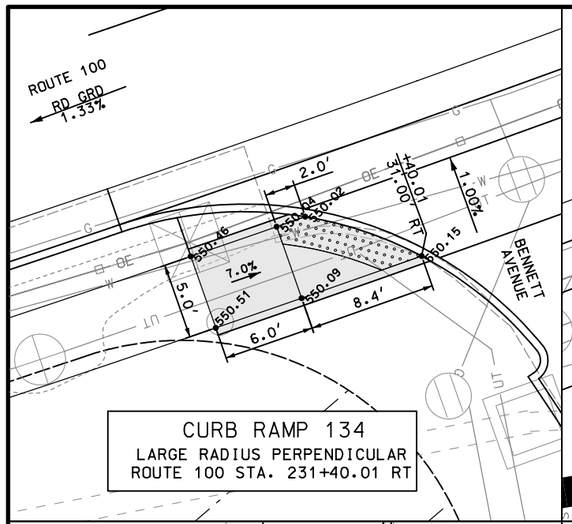
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

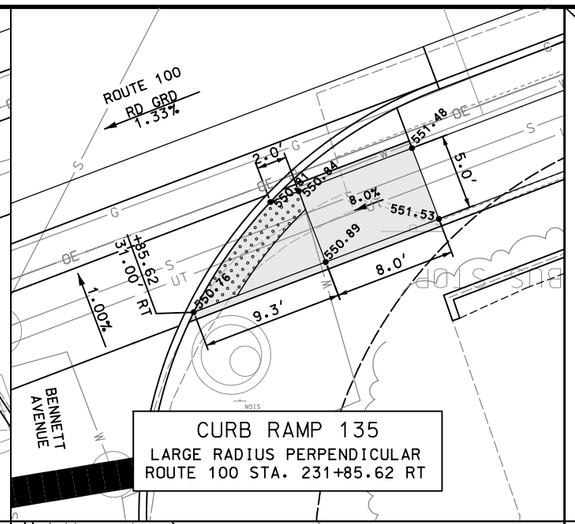
SPECIAL SHEET
.
CURB RAMP DETAILS
.
ROUTE 100
.
SHEET 15 OF 18

REV.
.

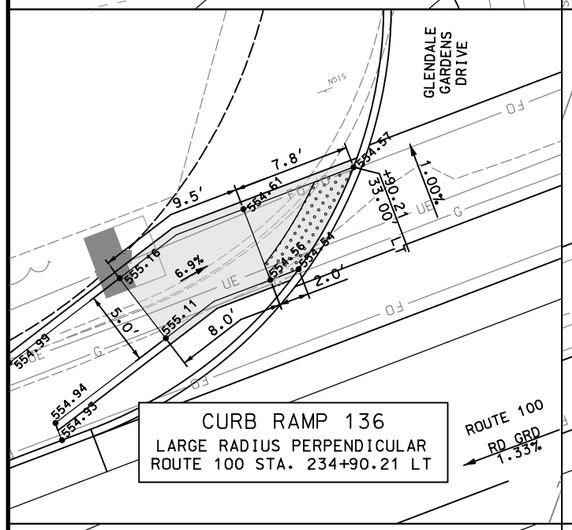
P:\2016\160347\4 CADD - DWG\4.7 Tran\03_Preliminary Design\Sheets\236_SS_CR_15_J6S1718_I5.dgn 3:53:25 PM 3/23/2020



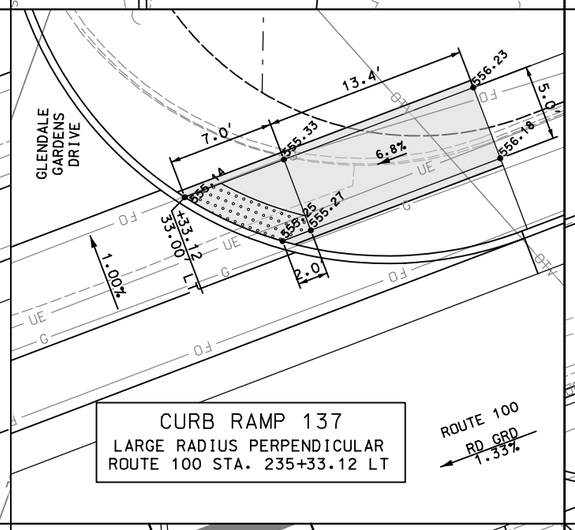
CURB RAMP 134
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 231+40.01 RT



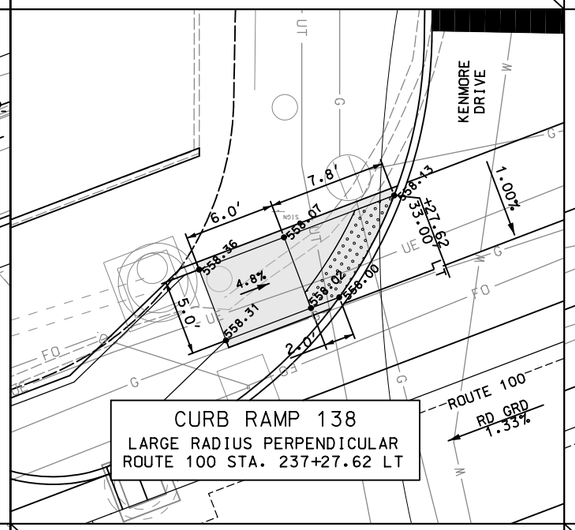
CURB RAMP 135
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 231+85.62 RT



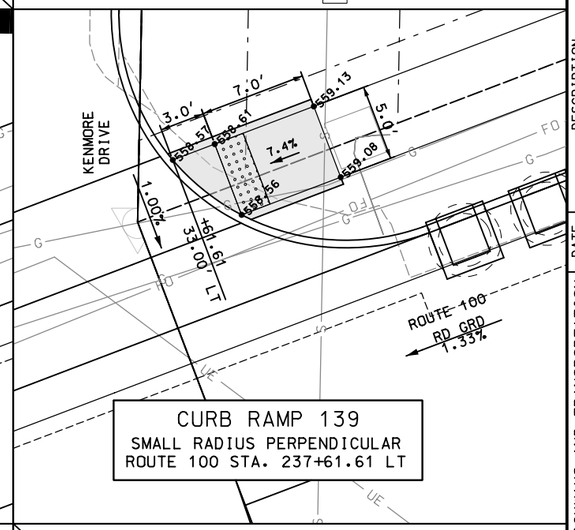
CURB RAMP 136
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 234+90.21 LT



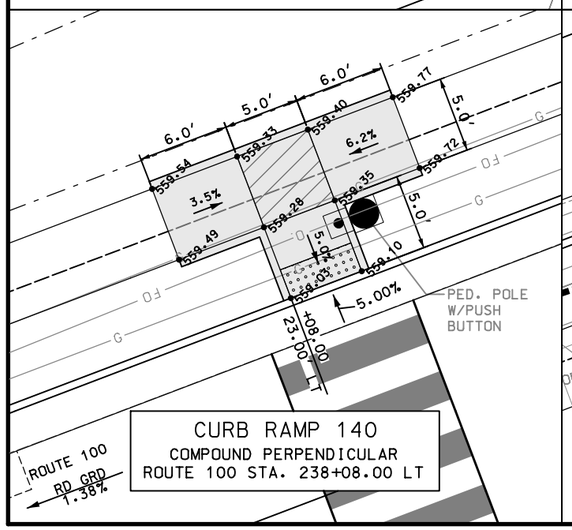
CURB RAMP 137
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 235+33.12 LT



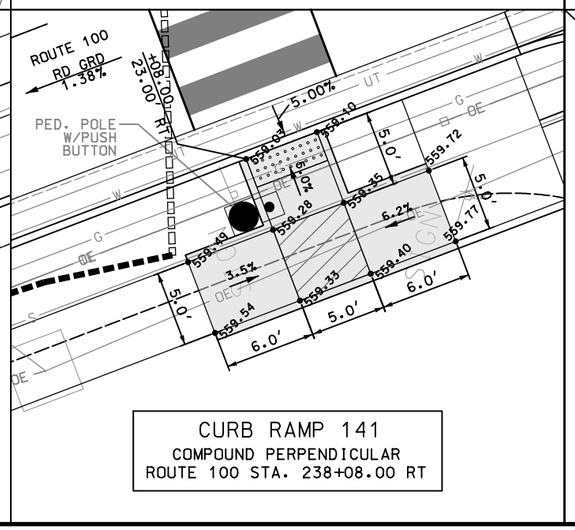
CURB RAMP 138
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 237+27.62 LT



CURB RAMP 139
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 237+61.61 LT



CURB RAMP 140
COMPOUND PERPENDICULAR
ROUTE 100 STA. 238+08.00 LT



CURB RAMP 141
COMPOUND PERPENDICULAR
ROUTE 100 STA. 238+08.00 RT

SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON

DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	237
COUNTY	ST. LOUIS
JOB NO.	J6S1718/J6S1718C
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

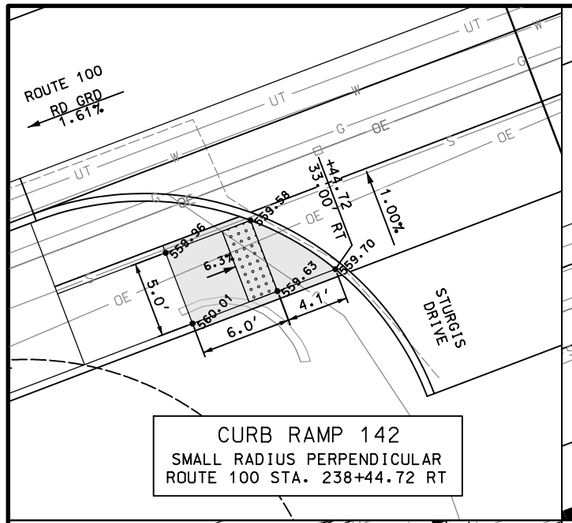
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
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720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

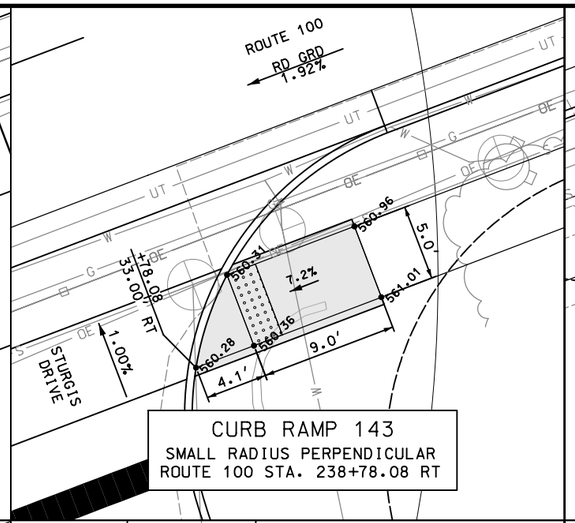
SPECIAL SHEET
.
CURB RAMP DETAILS
.
ROUTE 100
.
SHEET 16 OF 19

REV.

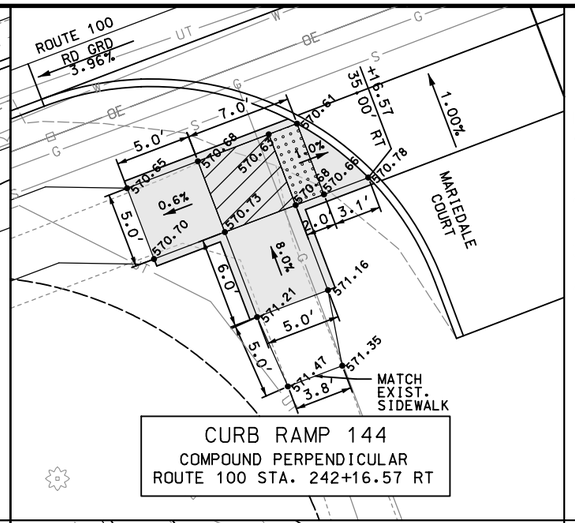
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CURB RAMP 142
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 238+44.72 RT



CURB RAMP 143
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 238+78.08 RT



CURB RAMP 144
COMPOUND PERPENDICULAR
ROUTE 100 STA. 242+16.57 RT

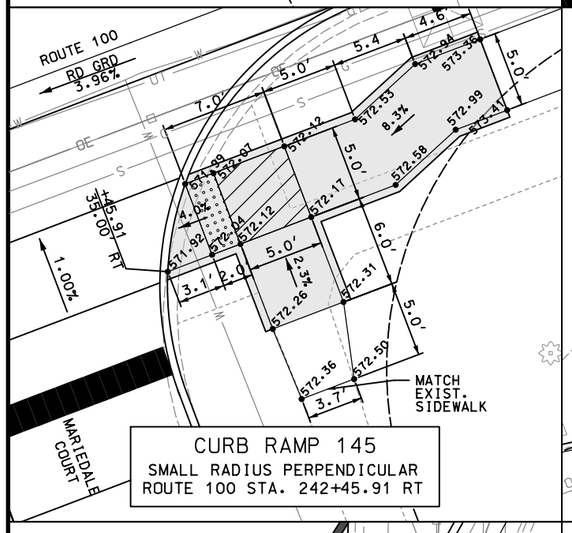
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
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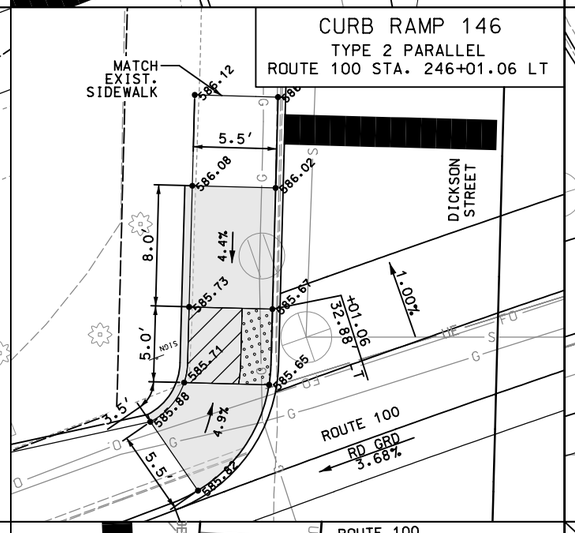
*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

LEGEND

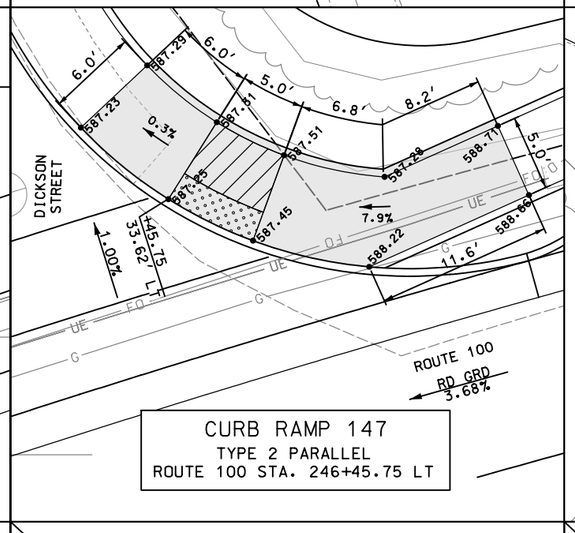
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



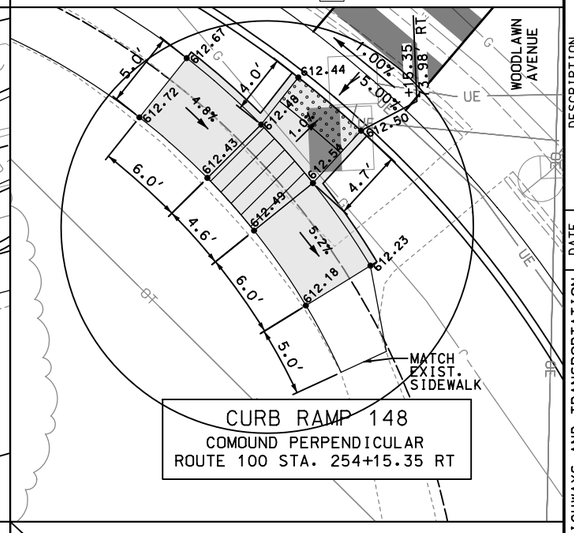
CURB RAMP 145
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 242+45.91 RT



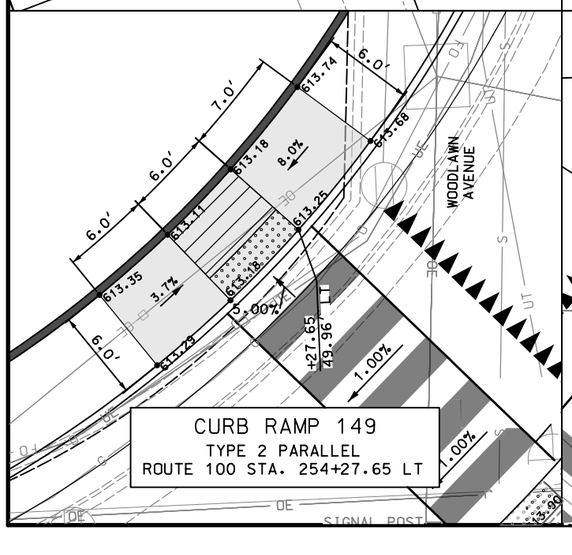
CURB RAMP 146
TYPE 2 PARALLEL
ROUTE 100 STA. 246+01.06 LT



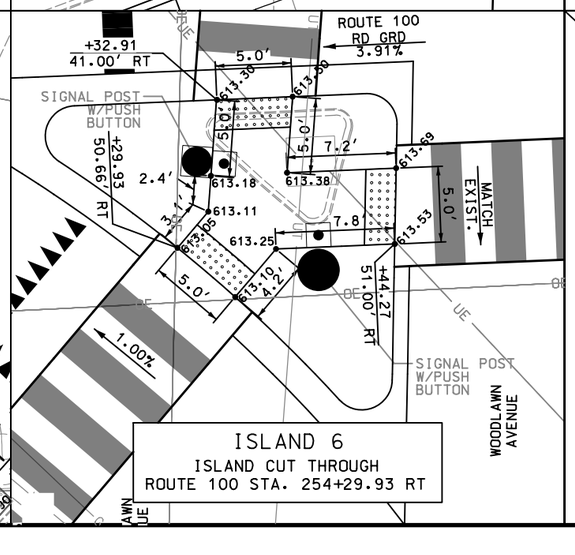
CURB RAMP 147
TYPE 2 PARALLEL
ROUTE 100 STA. 246+45.75 LT



CURB RAMP 148
COMOUND PERPENDICULAR
ROUTE 100 STA. 254+15.35 RT



CURB RAMP 149
TYPE 2 PARALLEL
ROUTE 100 STA. 254+27.65 LT



ISLAND 6
ISLAND CUT THROUGH
ROUTE 100 STA. 254+29.93 RT

DATE	DESCRIPTION

DATE PREPARED
3/23/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	238

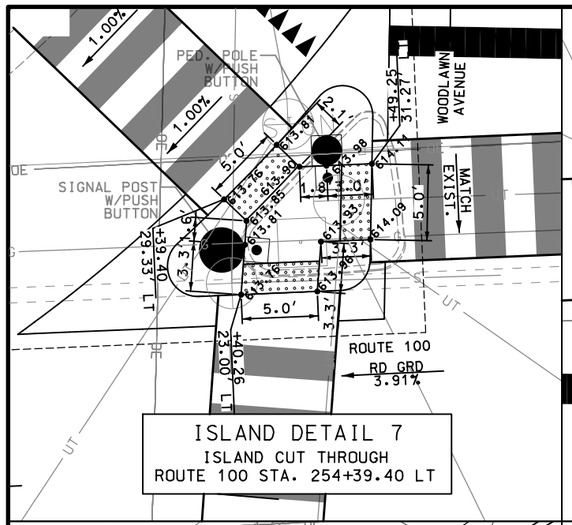
COUNTY
ST. LOUIS
JOB NO.
J6S1718C
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

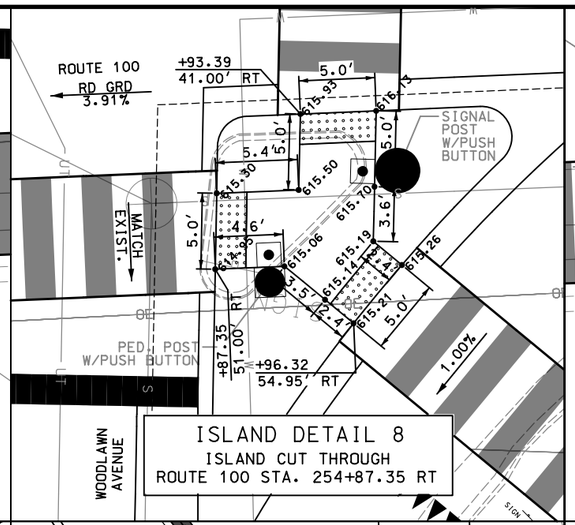
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ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
CURB RAMP DETAILS
ROUTE 100
SHEET 17 OF 19

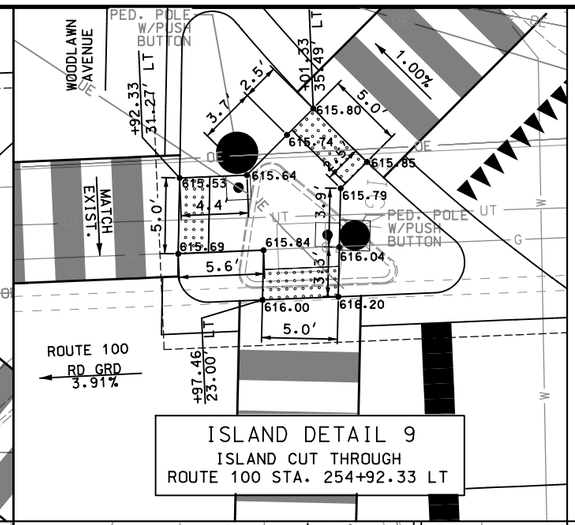
REV.



ISLAND DETAIL 7
ISLAND CUT THROUGH
ROUTE 100 STA. 254+39.40 LT



ISLAND DETAIL 8
ISLAND CUT THROUGH
ROUTE 100 STA. 254+87.35 RT



ISLAND DETAIL 9
ISLAND CUT THROUGH
ROUTE 100 STA. 254+92.33 LT

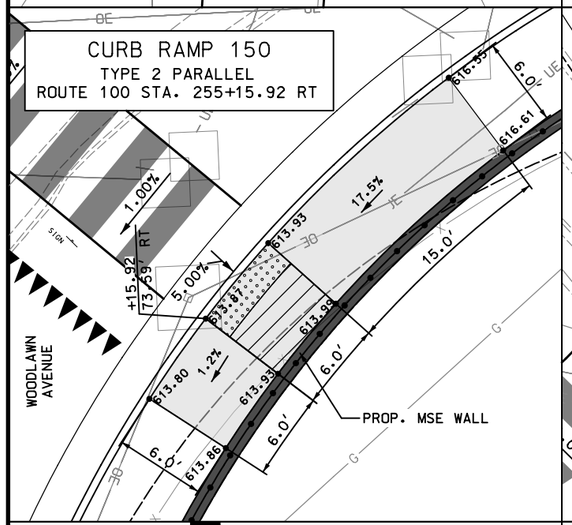
SCALE
0 5 10 15

NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
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4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

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**PAID FOR AS TWO (2) CURB RAMPS.

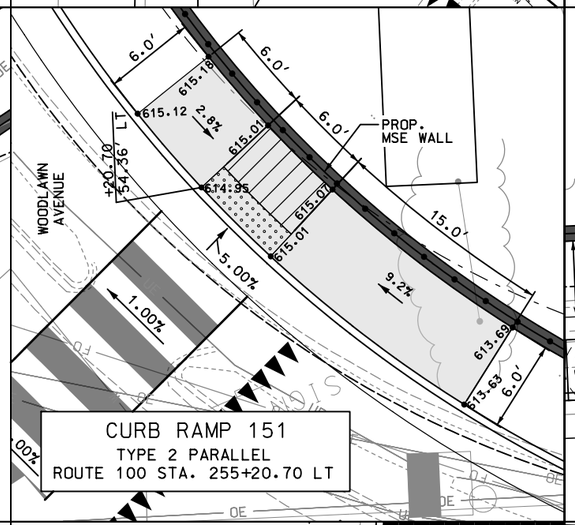
LEGEND

- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



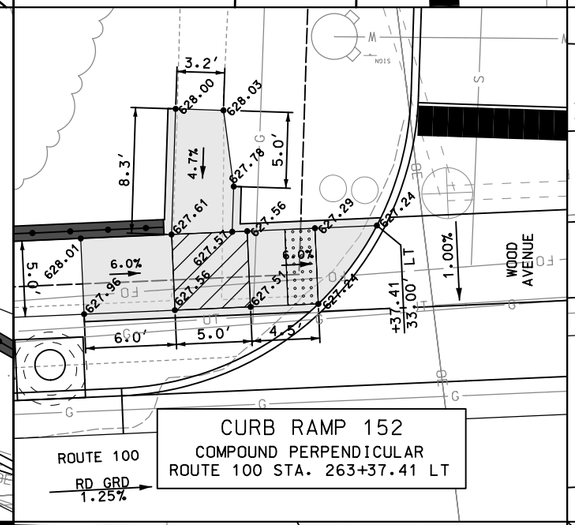
CURB RAMP 150
TYPE 2 PARALLEL
ROUTE 100 STA. 255+15.92 RT

CURB RAMP 154
COMPOUND PERPENDICULAR
ROUTE 100 STA. 265+52.01 RT



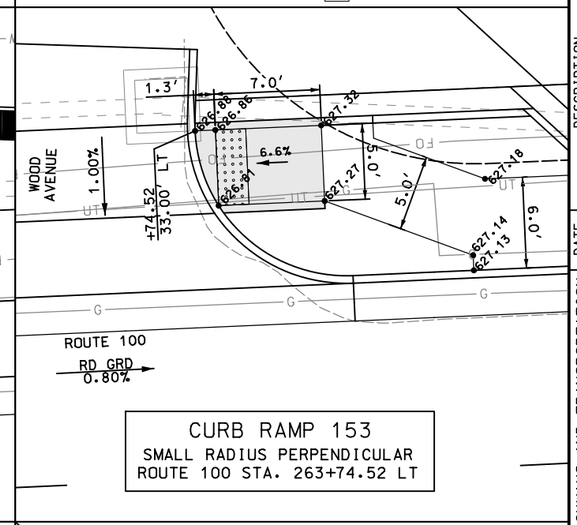
CURB RAMP 151
TYPE 2 PARALLEL
ROUTE 100 STA. 255+20.70 LT

CURB RAMP 155
LARGE RADIUS PERPENDICULAR
ROUTE 100 STA. 265+75.37 LT



CURB RAMP 152
COMPOUND PERPENDICULAR
ROUTE 100 STA. 263+37.41 LT

CURB RAMP 156
* LARGE RADIUS PERPENDICULAR
TYPE 3 PARALLEL
ROUTE 100 STA. 266+05.64 LT



CURB RAMP 153
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 263+74.52 LT

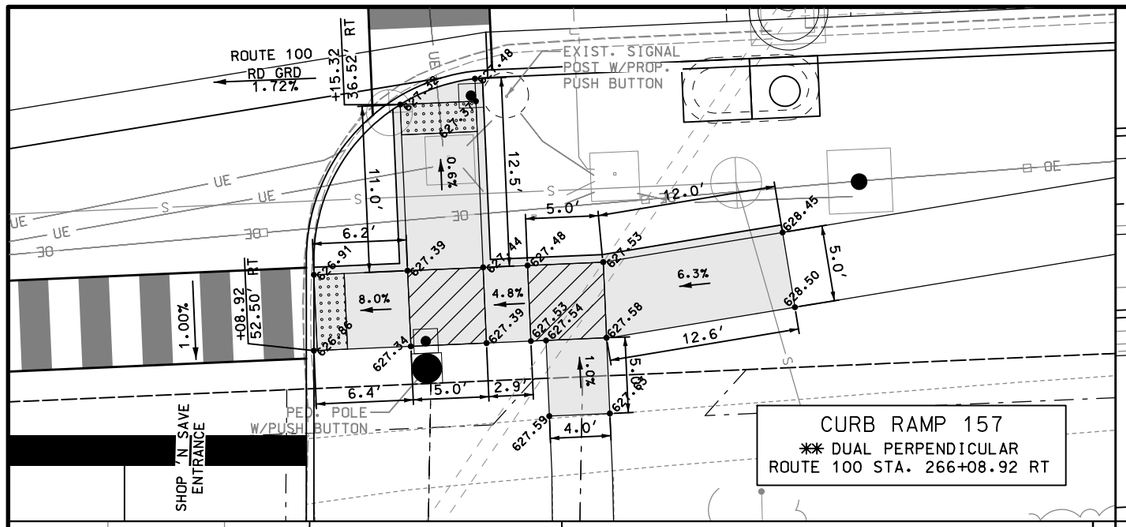
DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	239
COUNTY	ST. LOUIS
JOB NO.	J6S1718C
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION
DATE
REV.

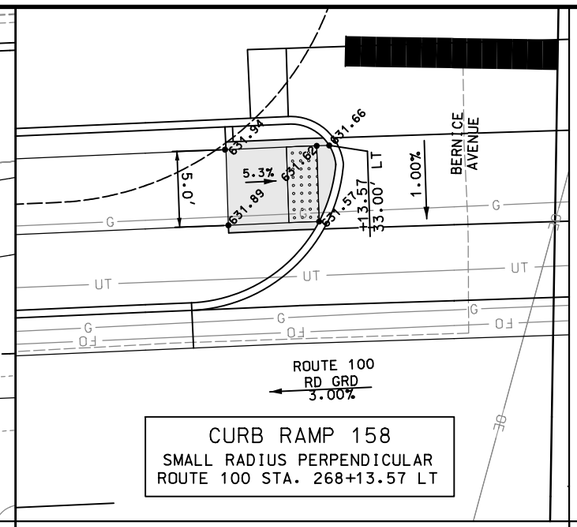
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
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ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
.
CURB RAMP DETAILS
.
ROUTE 100
.
SHEET 18 OF 19



CURB RAMP 157
** DUAL PERPENDICULAR
ROUTE 100 STA. 266+08.92 RT



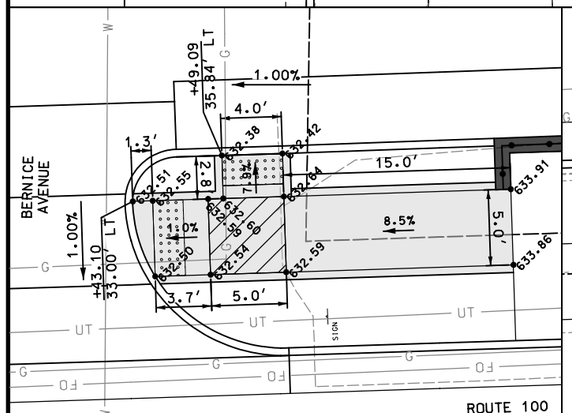
CURB RAMP 158
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 268+13.57 LT

SCALE
0 5 10 15

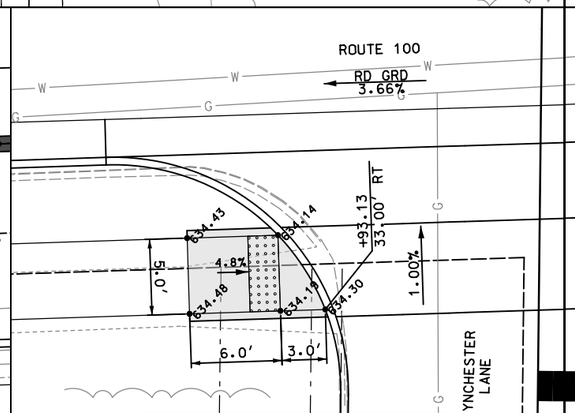
NOTES:
1. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP INCLUDED IN COST OF CURB RAMP.
2. PUSH BUTTON LOCATIONS SHOWN FOR INFORMATION ONLY, REFER TO SIGNAL PLANS FOR ADDITIONAL INFORMATION.
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4. REFER TO PLAN SHEETS FOR UTILITY NOTES.

*PAID FOR AS ONE (1) CURB RAMP.
**PAID FOR AS TWO (2) CURB RAMPS.

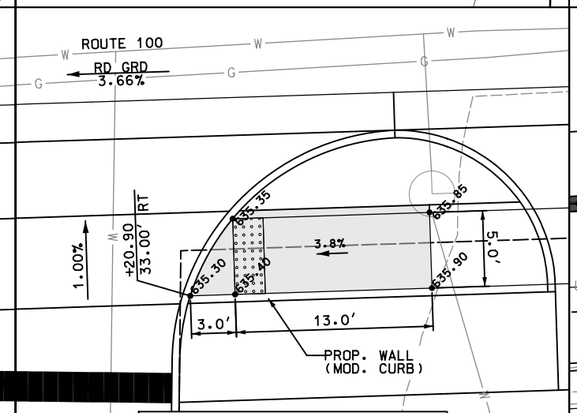
LEGEND
- DETECTABLE WARNING SURFACE
- PROPOSED LANDING 2.00% MAX SLOPE (ALL DIRECTIONS)
- CURB RAMP, 8.33% MAX. SLOPE (PAID FOR AS CURB RAMP)
- RAMP DIRECTION
- PUSH BUTTON



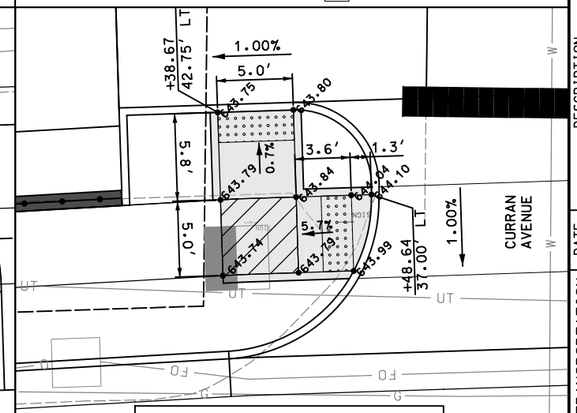
CURB RAMP 159
* DUAL PERPENDICULAR
ROUTE 100 STA. 268+43.10 LT



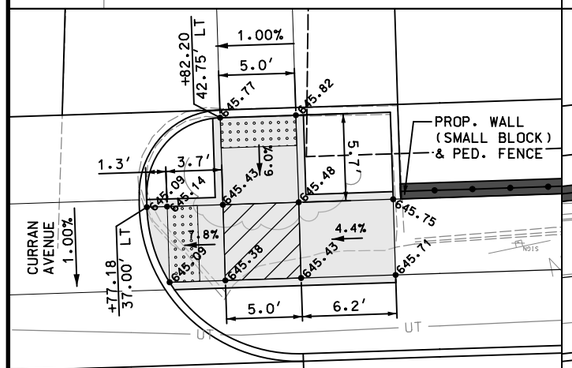
CURB RAMP 160
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 268+93.13 RT



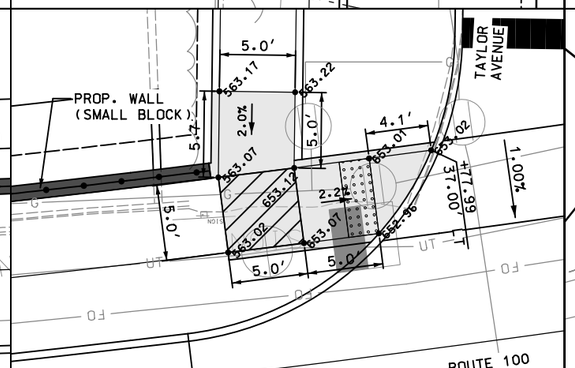
CURB RAMP 161
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 269+20.90 RT



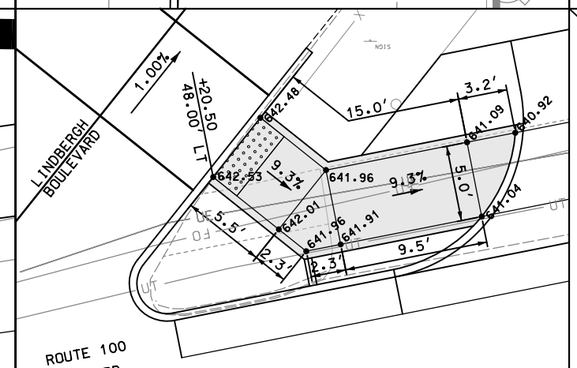
CURB RAMP 162
* DUAL PERPENDICULAR
ROUTE 100 STA. 271+38.67 LT



CURB RAMP 163
* DUAL PERPENDICULAR
ROUTE 100 STA. 271+77.18 LT



CURB RAMP 164
COMPOUND PERPENDICULAR
ROUTE 100 STA. 274+77.99 LT



CURB RAMP 165
SMALL RADIUS PERPENDICULAR
ROUTE 100 STA. 280+20.50 LT

DATE PREPARED	3/23/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	240
COUNTY	ST. LOUIS
JOB NO.	J6S1718C
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

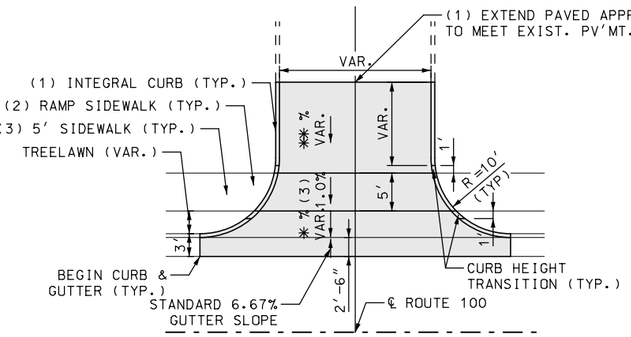
DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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MISSOURI CERT. OF AUTHORITY: 001528

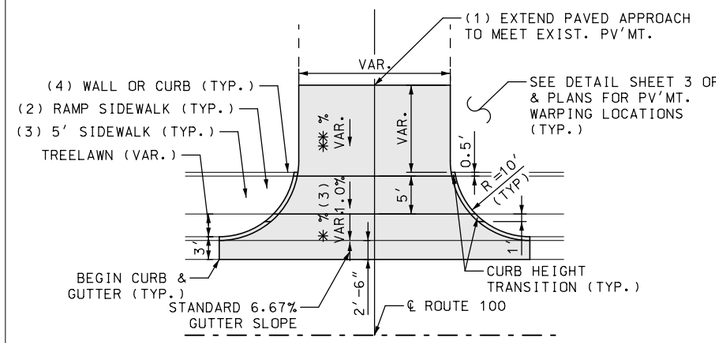
SPECIAL SHEET
CURB RAMP DETAILS
ROUTE 100
SHEET 19 OF 19

REV.



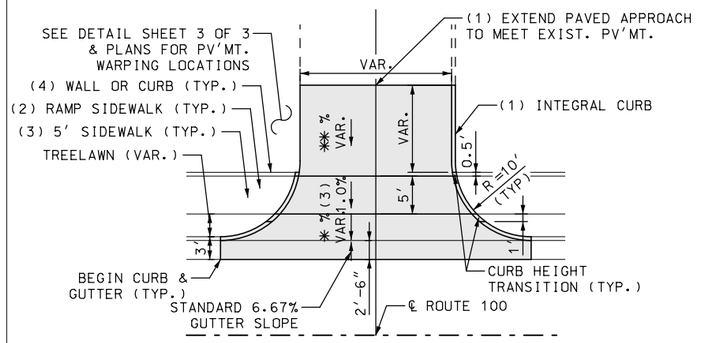
1 ENTRANCE – TYPE A

(1) CONCRETE ENTRANCE
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN



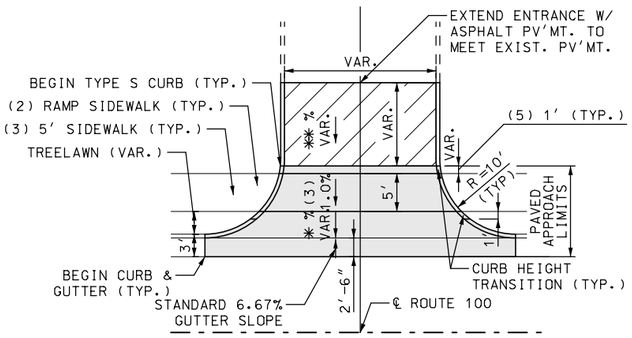
2 ENTRANCE – TYPE A'

(1) CONCRETE ENTRANCE
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN



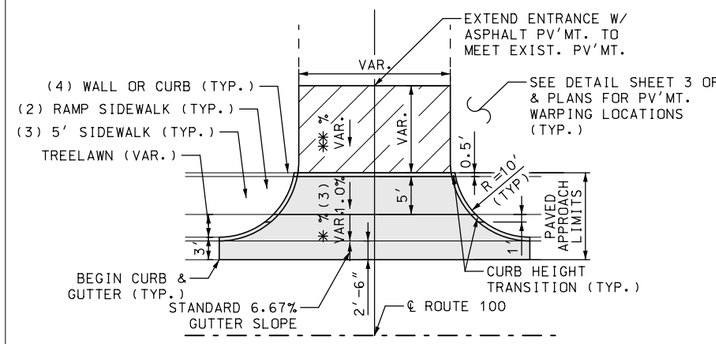
3 ENTRANCE – TYPE A''

(1) CONCRETE ENTRANCE
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN
(CURBING EXTENDS BEYOND APPROACH; ONE SIDE ONLY)



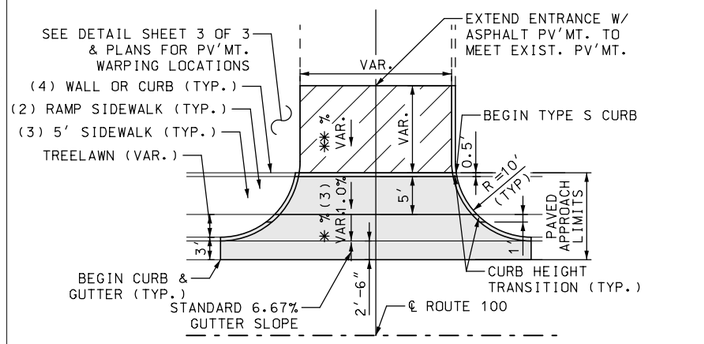
4 ENTRANCE – TYPE B

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN



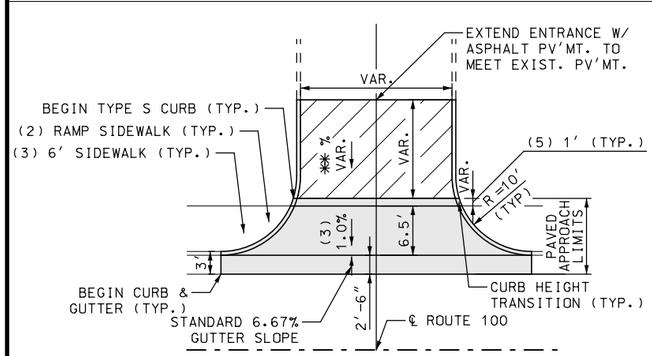
5 ENTRANCE – TYPE B'

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN



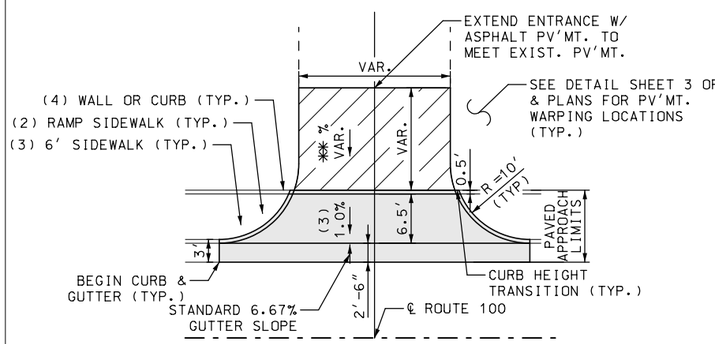
6 ENTRANCE – TYPE B''

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN
(CURBING EXTENDS BEYOND APPROACH; ONE SIDE ONLY)



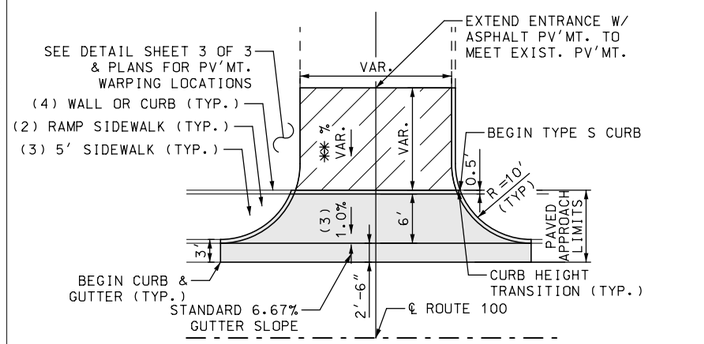
7 ENTRANCE – TYPE B

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB & GUTTER SECTION
6' SIDEWALK AT BACK OF CURB



8 ENTRANCE – TYPE B'

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB & GUTTER SECTION
6' SIDEWALK AT BACK OF CURB



9 ENTRANCE – TYPE B''

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB & GUTTER SECTION
6' SIDEWALK AT BACK OF CURB
(CURBING EXTENDS BEYOND APPROACH; ONE SIDE ONLY)

NOTE: SEE SHEET 2 OF 3 FOR ENTRANCE DETAIL NOTES AND LEGEND.
* = APPROACH GRADE & ** = TIE-IN GRADE (SEE PLANS FOR GRADES)

DATE PREPARED
2/3/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	241

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B/C

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

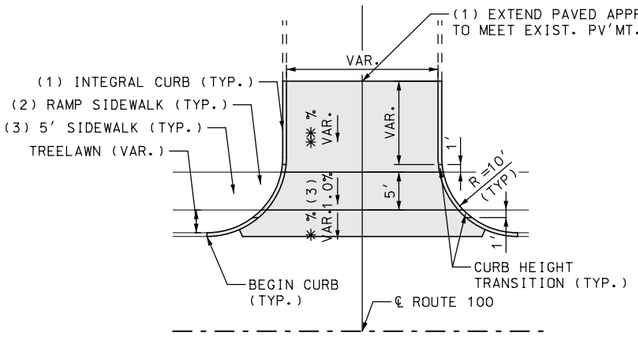
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SPECIAL SHEET
SIDEROAD, ENTRANCE & PARKING LOT DETAILS
SHEET 1 OF 4

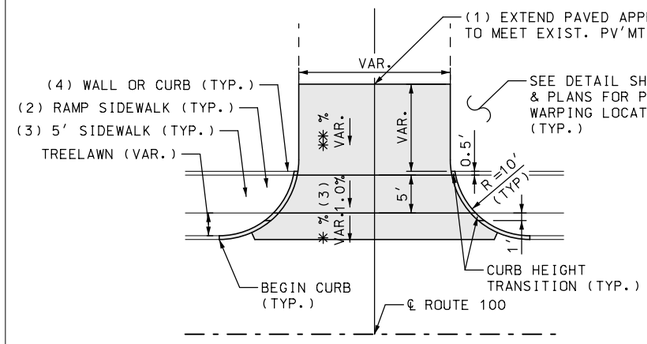
REV.

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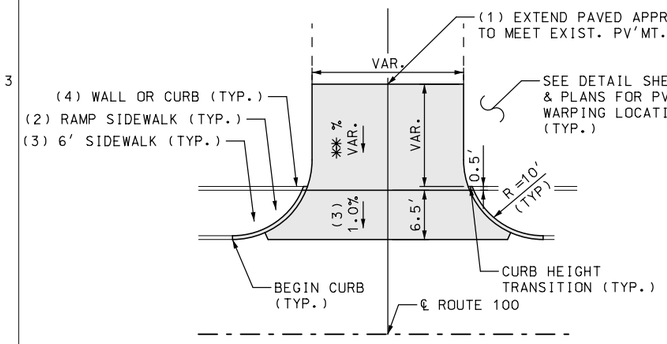
10 ENTRANCE – TYPE C

(1) CONCRETE ENTRANCE
CURB SECTION ONLY
5' SIDEWALK W/ TREELAWN



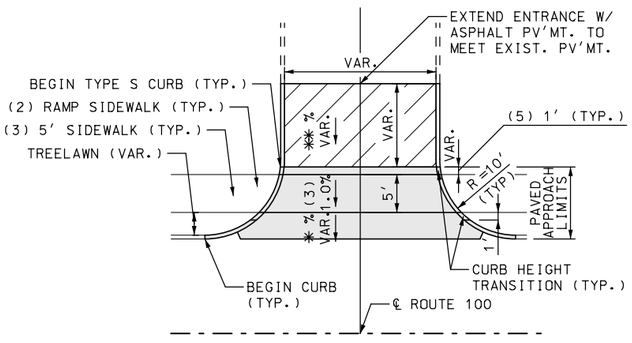
11 ENTRANCE – TYPE C'

(1) CONCRETE ENTRANCE
CURB SECTION ONLY
5' SIDEWALK W/ TREELAWN



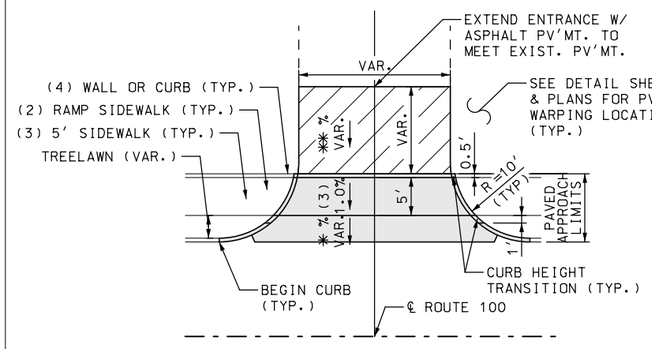
12 ENTRANCE – TYPE C'

(1) CONCRETE ENTRANCE
CURB SECTION ONLY
6' SIDEWALK AT BACK OF CURB



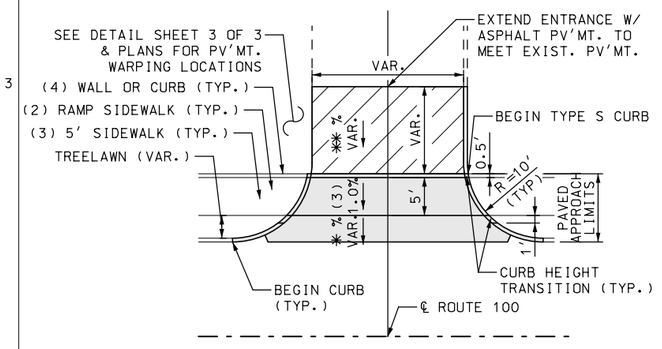
13 ENTRANCE – TYPE D

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB SECTION ONLY
5' SIDEWALK W/ TREELAWN



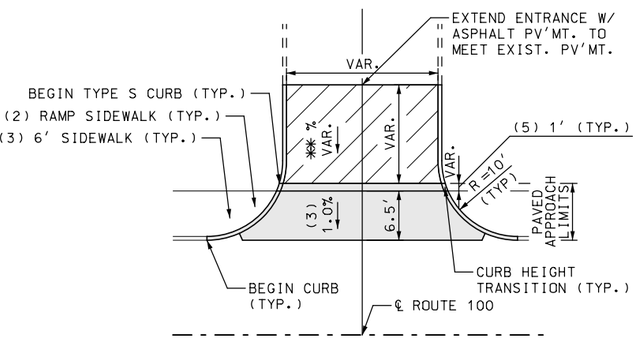
14 ENTRANCE – TYPE D'

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB SECTION ONLY
5' SIDEWALK W/ TREELAWN



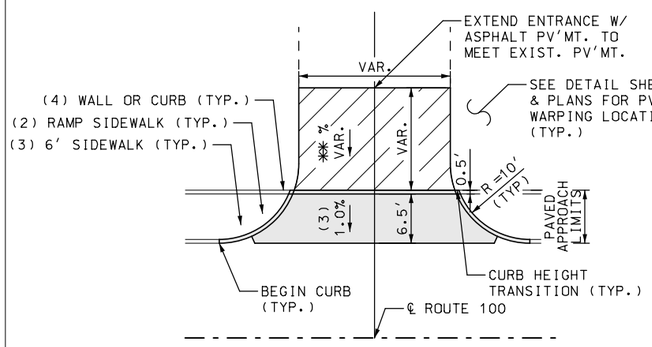
15 ENTRANCE – TYPE D''

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB SECTION ONLY
5' SIDEWALK W/ TREELAWN
(CURBING EXTENDS BEYOND APPROACH; ONE SIDE ONLY)



16 ENTRANCE – TYPE D

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB SECTION ONLY
6' SIDEWALK AT BACK OF CURB



17 ENTRANCE – TYPE D'

ASPHALT ENTRANCE W/ PAVED APPROACH
CURB SECTION ONLY
6' SIDEWALK AT BACK OF CURB

ENTRANCE DETAIL NOTES:

(1) ANY EXISTING CONCRETE ENTRANCE WHERE GRADES REQUIRE PAVEMENT TO BE EXTENDED BEYOND APPROACH, ENTIRE ENTRANCE, INCLUDING CURBING, SHALL BE PAID FOR AS PAVED APPROACH; OTHERWISE SEE DETAILS FOR LIMITS OF PAVED APPROACH.

(2) WHERE GRADES REQUIRE IT, SIDEWALK GRADE SHALL BE TRANSITIONED TO THE GRADE OF THE APPROACH VIA AN APPROPRIATE RAMP, SEE STANDARD PLAN 608.50 FOR RAMP DETAILS. RAMPS AT ENTRANCE APPROACHES SHALL BE PAID FOR AS SIDEWALK.

(3) NEW SIDEWALK AND THE APPROACH GRADE THROUGH THE LIMITS OF THE SIDEWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION SHALL NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE.

(4) CURB OR WALL MAY NOT BE REQUIRED. SEE PLANS FOR SPECIFIC LOCATIONS REGARDING THE CURB OR WALL TYPE AT THE BACK OF SIDEWALK; SEE TYPICAL SECTIONS FOR ADDITIONAL CURB AND WALL DETAILS.

(5) FOR TYPE B OR D ENTRANCES, PROVIDE FOR 0.5' CURB HEIGHT TRANSITION WHERE CURB IS REQUIRED AT THE BACK OF SIDEWALK; OTHERWISE PROVIDE FOR STANDARD 1'.

(6) SEE PLANS AND ENTRANCE CROSS SECTIONS FOR ADDITIONAL INFORMATION REGARDING TREELAWN WIDTHS, ENTRANCE WIDTHS, LENGTHS AND GRADES.

(7) SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION REGARDING PAVEMENT TYPES.

(8) SEE STANDARD PLAN 608.00H FOR ADDITIONAL DETAILS REGARDING CONSTRUCTION OF PAVED APPROACHES.

LEGEND

ASPHALT PAVEMENT PAVED APPROACH

* = APPROACH GRADE & ** = TIE-IN GRADE (SEE PLANS FOR GRADES)

DATE PREPARED
2/3/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	242

COUNTY
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J6S1718/J6S1718B/C

CONTRACT ID.
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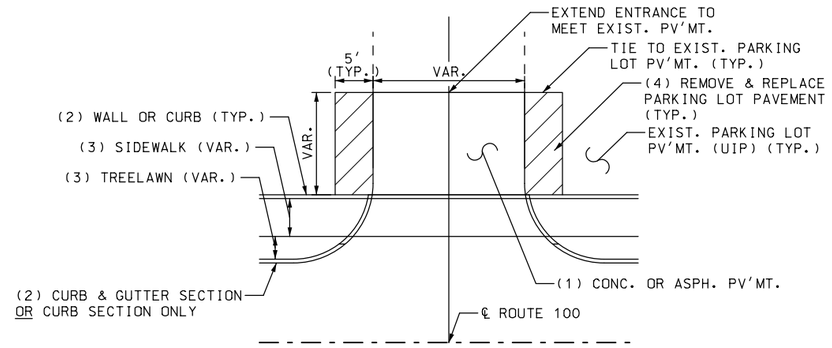
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105 WEST CAPITOL
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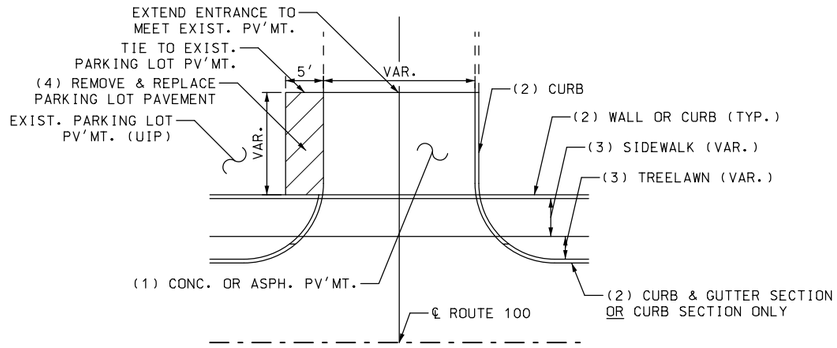
SPECIAL SHEET
SIDEROAD, ENTRANCE & PARKING LOT DETAILS
SHEET 2 OF 4

REV.



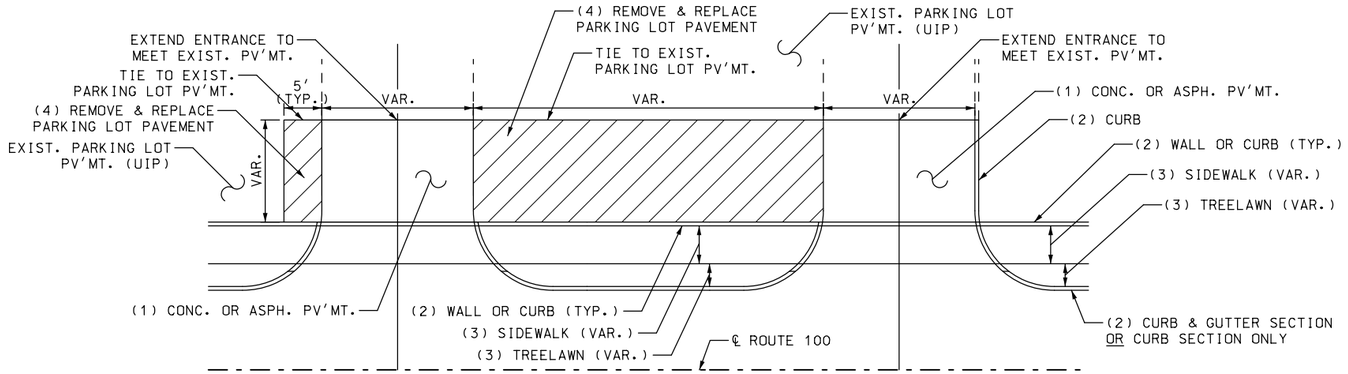
18 PARKING LOT DETAIL

(1) ENTRANCE TYPE B', TYPE C' OR TYPE D'
CONCRETE OR ASPHALT ENTRANCE W/ PAVED APPROACH
FOR ENTRANCES ADJACENT TO PARKING AREAS



19 PARKING LOT DETAIL

(1) ENTRANCE TYPE A'', TYPE B'' OR TYPE D''
CONCRETE OR ASPHALT ENTRANCE W/ PAVED APPROACH
(CURBING EXTENDS BEYOND APPROACH; ONE SIDE ONLY)
FOR ENTRANCES ADJACENT TO PARKING AREAS



20 PARKING LOT DETAIL

(1) ENTRANCE COMBINATION DETAIL
TWO CONCRETE OR ASPHALT ENTRANCES W/ PAVED APPROACH
FOR ENTRANCES IN CLOSE PROXIMITY ADJACENT TO PARKING AREA

PARKING LOT DETAIL NOTES:

(1) SEE PLANS FOR PROPOSED ENTRANCE TYPE; SEE DETAIL SHEET 1 OF 3 AND DETAIL SHEET 2 OF 3 FOR ADDITIONAL ENTRANCE DETAILS.

(2) SEE PLANS FOR LOCATIONS AND CURB TYPE REQUIRED ALONG MAINLINE, AT ENTRANCES, AND AT THE BACK OF SIDEWALK AND FOR PROPOSED WALL LOCATIONS; SEE TYPICAL SECTIONS FOR ADDITIONAL CURB AND WALL DETAILS.

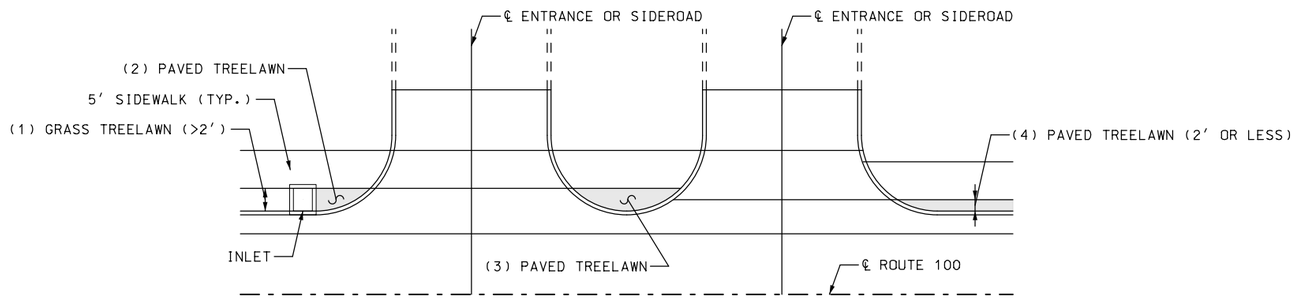
(3) SEE PLANS AND ENTRANCE CROSS SECTIONS FOR ADDITIONAL INFORMATION REGARDING SIDEWALK WIDTHS, TREELAWN WIDTHS, ENTRANCE WIDTHS, LENGTHS AND GRADES.

(4) PROVIDE FOR PAVEMENT WARPING TO TIE PROPOSED ENTRANCE TO EXISTING PARKING LOT PAVEMENT.

(5) SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION REGARDING PAVEMENT TYPES FOR PARKING LOTS.

LEGEND

ASPHALT PAVEMENT



21 PAVED TREELAWN DETAIL

TYPICAL PAVED TREELAWN LOCATIONS
(SEE SUMMARY OF QUANTITIES FOR SPECIFIC LOCATIONS)

PAVED TREELAWN NOTES:

(1) SEED OR SOD TREELAWNS GREATER THAN 2' WIDE.

(2) PAVE TREELAWN IN AREAS BETWEEN INLETS AND ENTRANCES OR SIDEROADS.

(3) PAVE TREELAWN IN AREAS BETWEEN ENTRANCES OR SIDEROADS IN CLOSE PROXIMITY.

(4) PAVE TREELAWN LESS THAN 2' WIDE.

LEGEND

PAVED TREELAWN (PAID FOR AS SIDEWALK)

DATE PREPARED 2/3/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 243
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

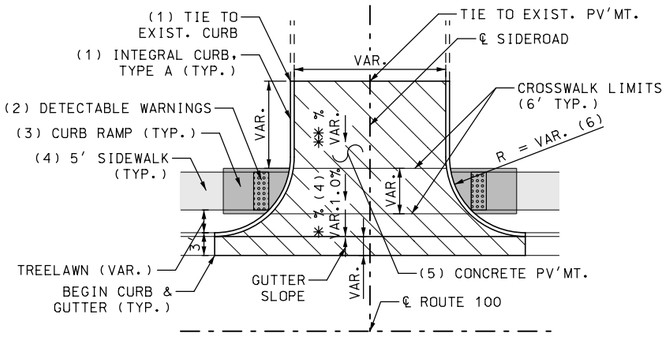
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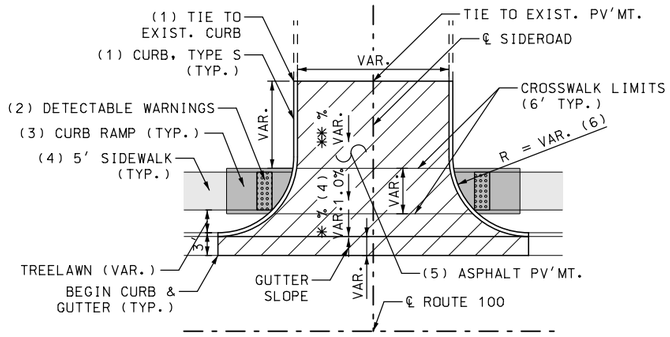
SPECIAL SHEET
SIDEROAD, ENTRANCE & PARKING LOT DETAILS
SHEET 3 OF 4

REV.



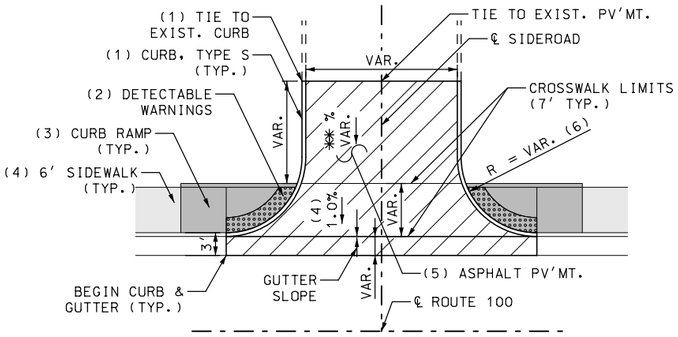
22 SIDEROAD – TYPE E

CONCRETE PAVEMENT
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN



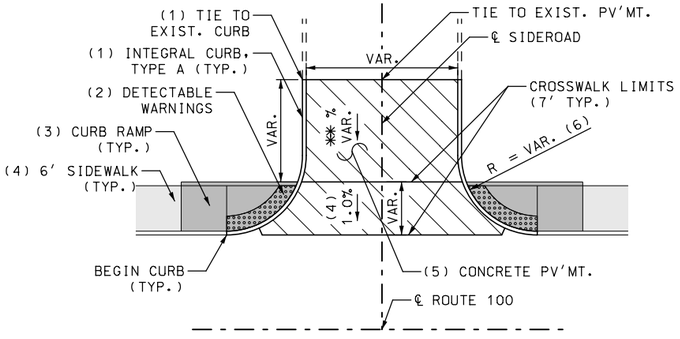
23 SIDEROAD – TYPE F

ASPHALT PAVEMENT
CURB & GUTTER SECTION
5' SIDEWALK W/ TREELAWN



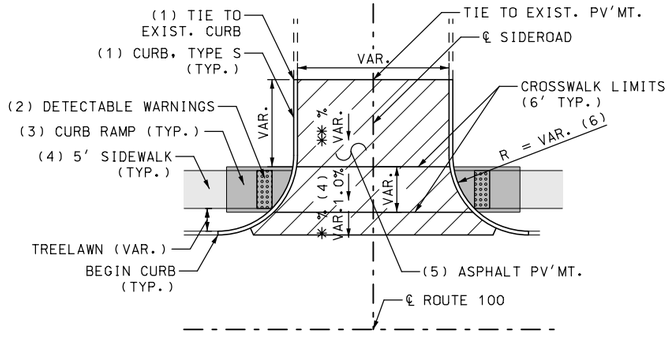
24 SIDEROAD – TYPE F'

ASPHALT PAVEMENT
CURB & GUTTER SECTION
6' SIDEWALK AT BACK OF CURB



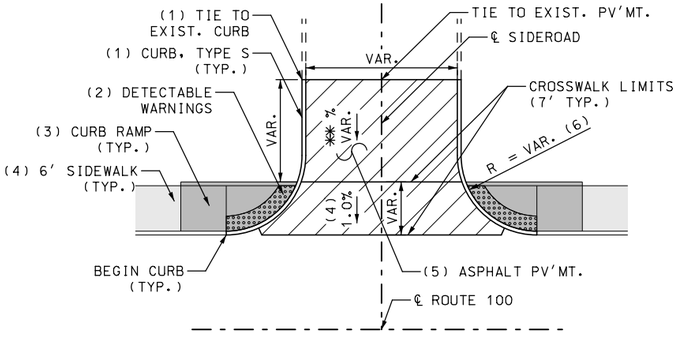
25 SIDEROAD – TYPE E'

CONCRETE PAVEMENT
CURB SECTION ONLY
6' SIDEWALK AT BACK OF CURB



26 SIDEROAD – TYPE F

ASPHALT PAVEMENT
CURB SECTION ONLY
5' SIDEWALK W/ TREELAWN



27 SIDEROAD – TYPE F'

ASPHALT PAVEMENT
CURB SECTION ONLY
6' SIDEWALK AT BACK OF CURB

SIDEROAD DETAIL NOTES:

(1) CURBING FOR SIDEROAD CONSTRUCTION TO BE PAID FOR SEPARATELY; TRANSITION STANDARD CURB TO MATCH EXISTING CURB LINE.

(2) DETECTABLE WARNINGS SHALL BE PROVIDED AT ALL SIDEROAD INTERSECTIONS; AS SHOWN IN THE PLANS. DETECTABLE WARNINGS SHALL BE PAID FOR SEPARATELY.

(3) NEW CURB RAMPS TO BE PROVIDED, SEE CURB RAMP DETAIL SHEETS FOR SPECIFIC DETAILS REGARDING CURB RAMP CONSTRUCTION. ALL CURBING REQUIRED FOR CONSTRUCTION OF CURB RAMP SHALL BE INCLUDED IN THE COST OF THE CURB RAMP.

(4) NEW SIDEWALK AND THE APPROACH GRADE THROUGH THE LIMITS OF THE CROSSWALK HAS BEEN DESIGNED WITH A 1.00% CROSS SLOPE; FINAL CONSTRUCTION SHALL NOT TO EXCEED 2.00% MAXIMUM CROSS SLOPE. SEE INTERSECTION DETAILS FOR CROSSWALK WIDTHS AND ADDITIONAL SIDEWALK DETAILS.

(5) SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION REGARDING PAVEMENT TYPES.

(6) SEE INTERSECTION DETAIL SHEETS FOR RADIUS INFORMATION AND ADDITIONAL DETAILS REGARDING CONSTRUCTION OF SIDEROADS.

(7) SEE PLANS AND SIDEROAD CROSS SECTIONS FOR ADDITIONAL INFORMATION REGARDING TREELAWN WIDTHS, SIDEROAD WIDTHS, LENGHTS, GRADES AND GUTTER SLOPES.

LEGEND

ASPHALT PAVEMENT
CONCRETE PAVEMENT
CURB RAMP
SIDEWALK

✳ = APPROACH GRADE & ✳✳ = TIE-IN GRADE (SEE PLANS FOR GRADES)

DATE PREPARED 2/3/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 244
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

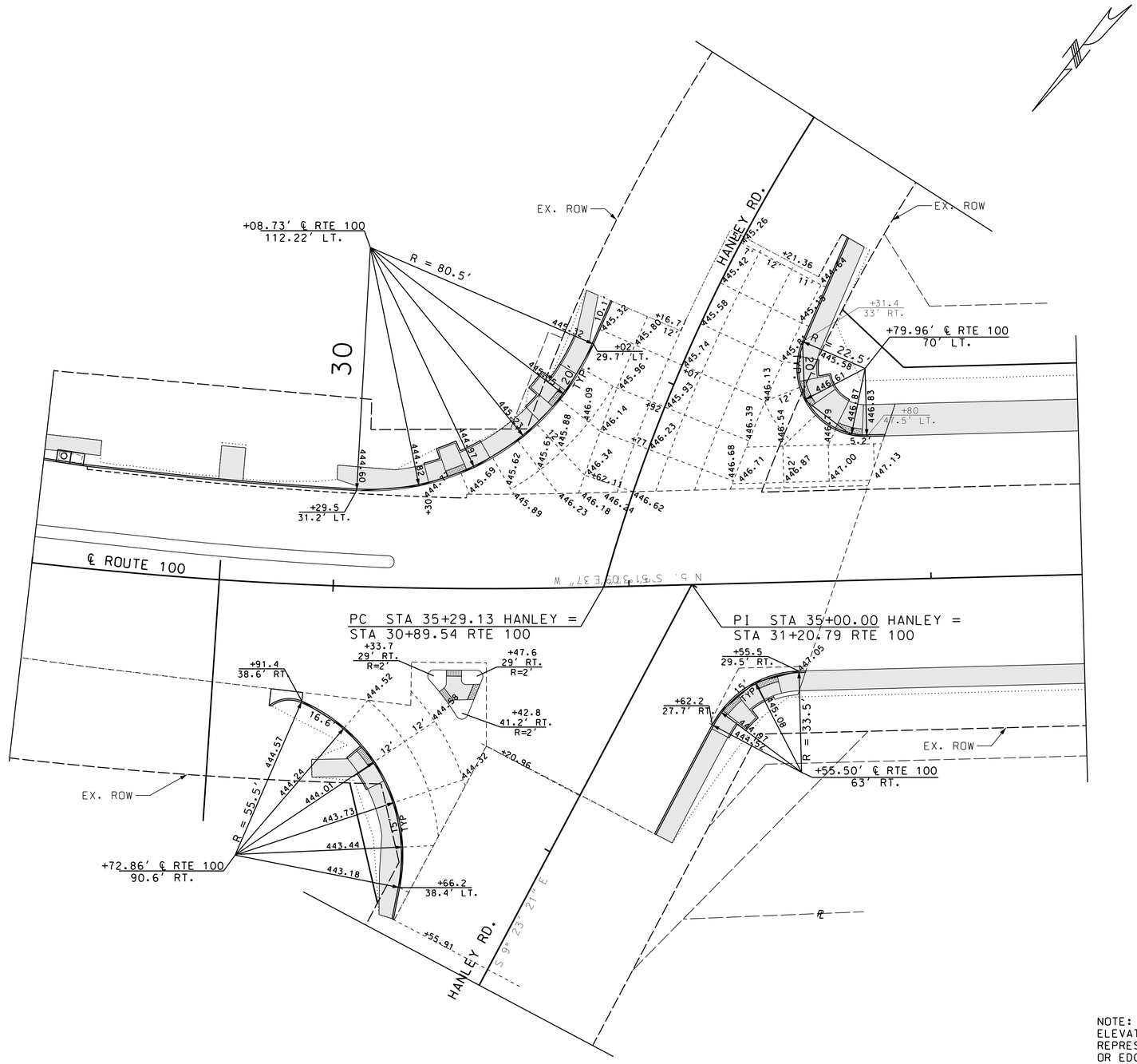
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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
SIDEROAD, ENTRANCE & PARKING LOT DETAILS
SHEET 4 OF 4

REV.



NOTE:
ELEVATIONS SHOWN AT ROUNDINGS REPRESENT BOTTOM FACE OF CURB OR EDGE OF SHOULDER

SCALE
0 20 40 60

SPECIAL SHEET
INTERSECTION DETAILS
SHEET 1 OF 10

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DATE PREPARED: 2/4/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: IW001
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

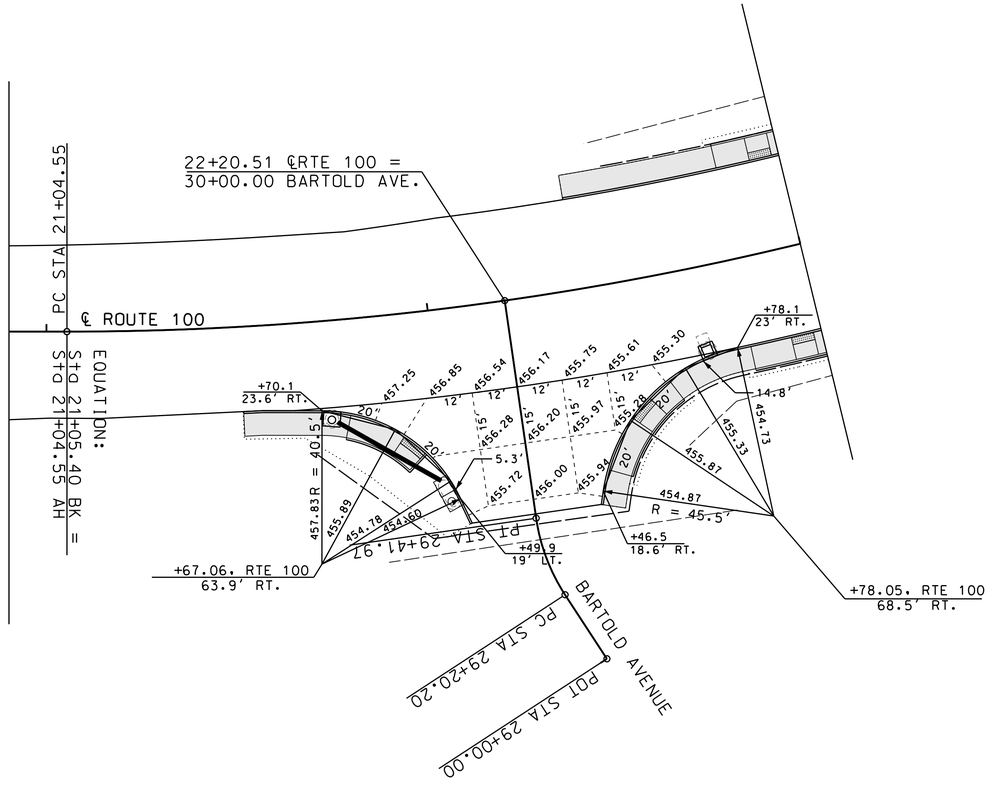
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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HDR Engineering, Inc.
401 S. 18th Street
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St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

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REV.



NOTE:
ELEVATIONS SHOWN AT ROUNDINGS REPRESENT BOTTOM FACE OF CURB OR EDGE OF SHOULDER

SCALE

0 20 40 60

SPECIAL SHEET
INTERSECTION DETAILS
SHEET 2 OF 10

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	IW001A

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

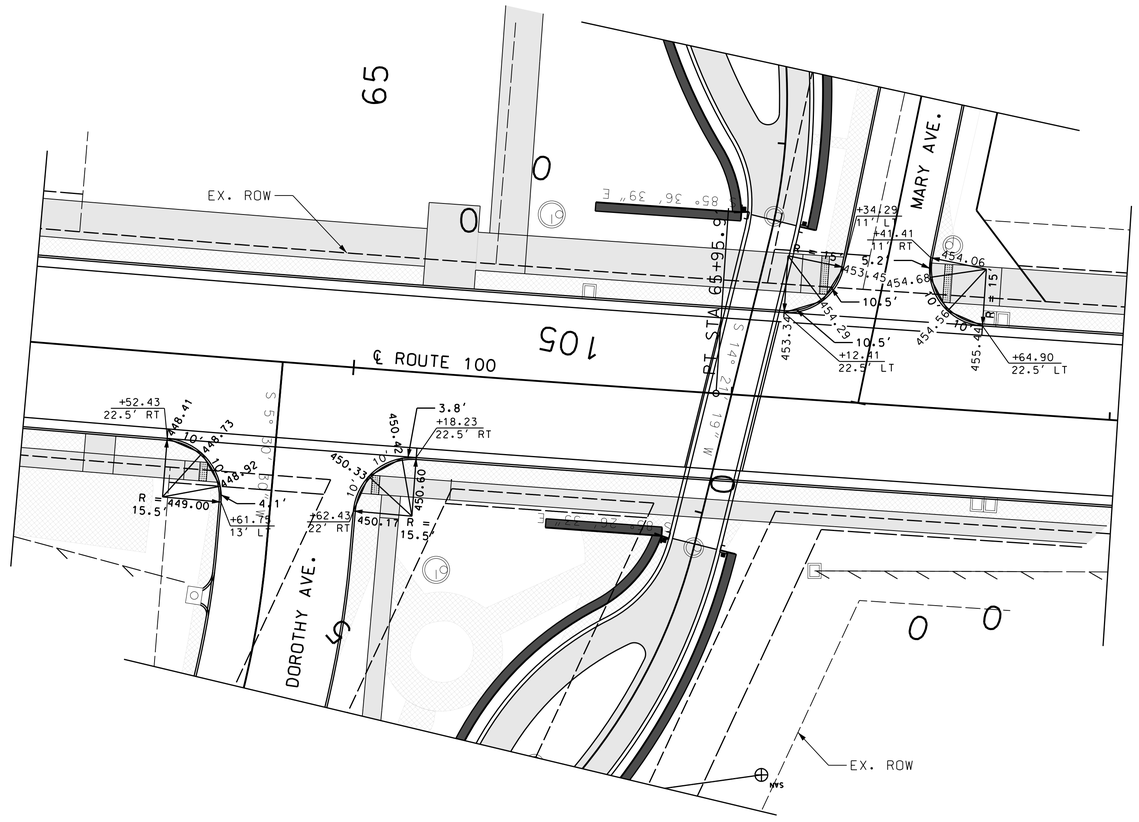
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE

0 20 40 60

SPECIAL SHEET
INTERSECTION DETAILS
SHEET 3 OF 10

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	IW001B

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

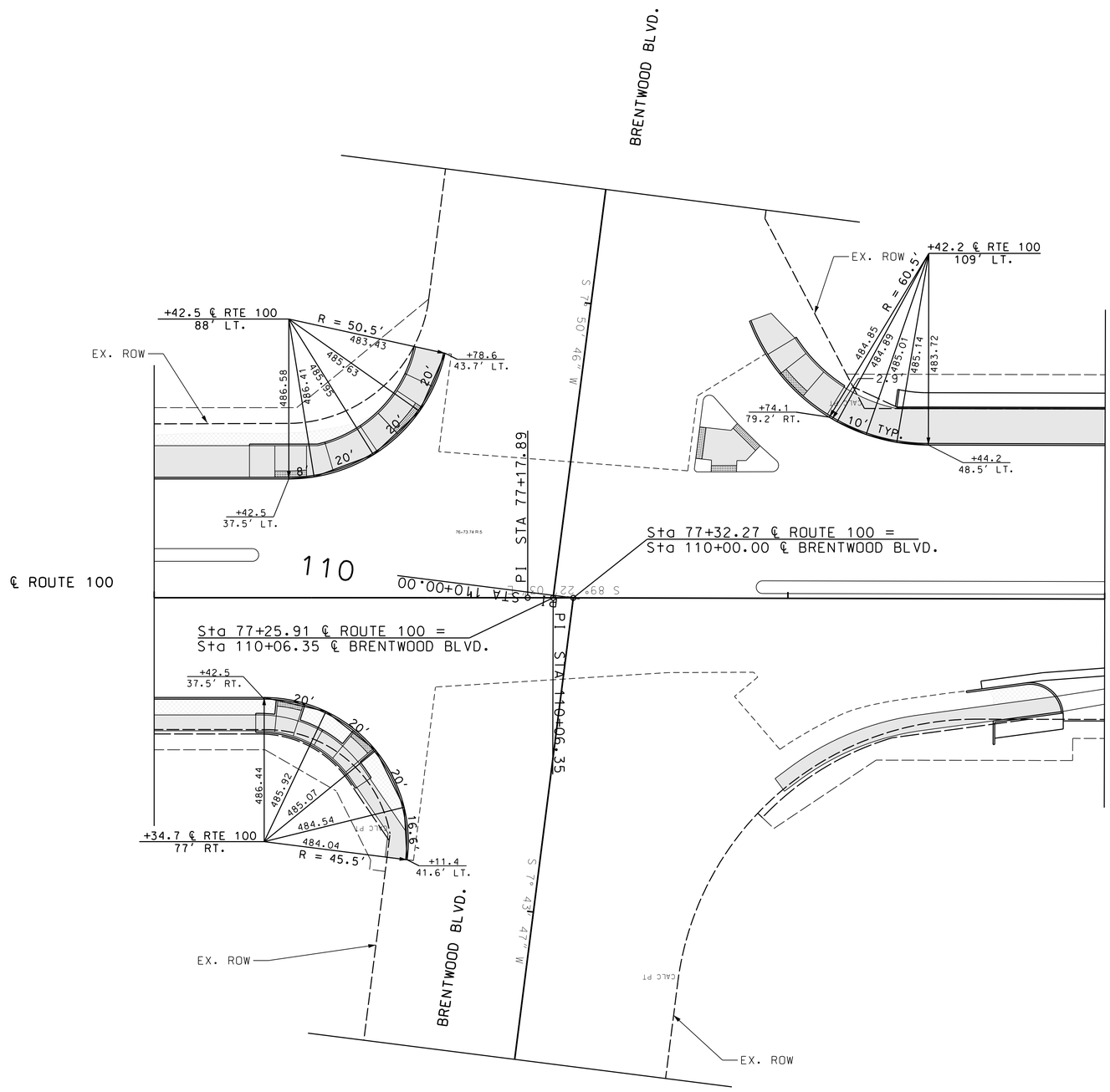
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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SPECIAL SHEET
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SHEET 4 OF 10

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DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	IW002
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

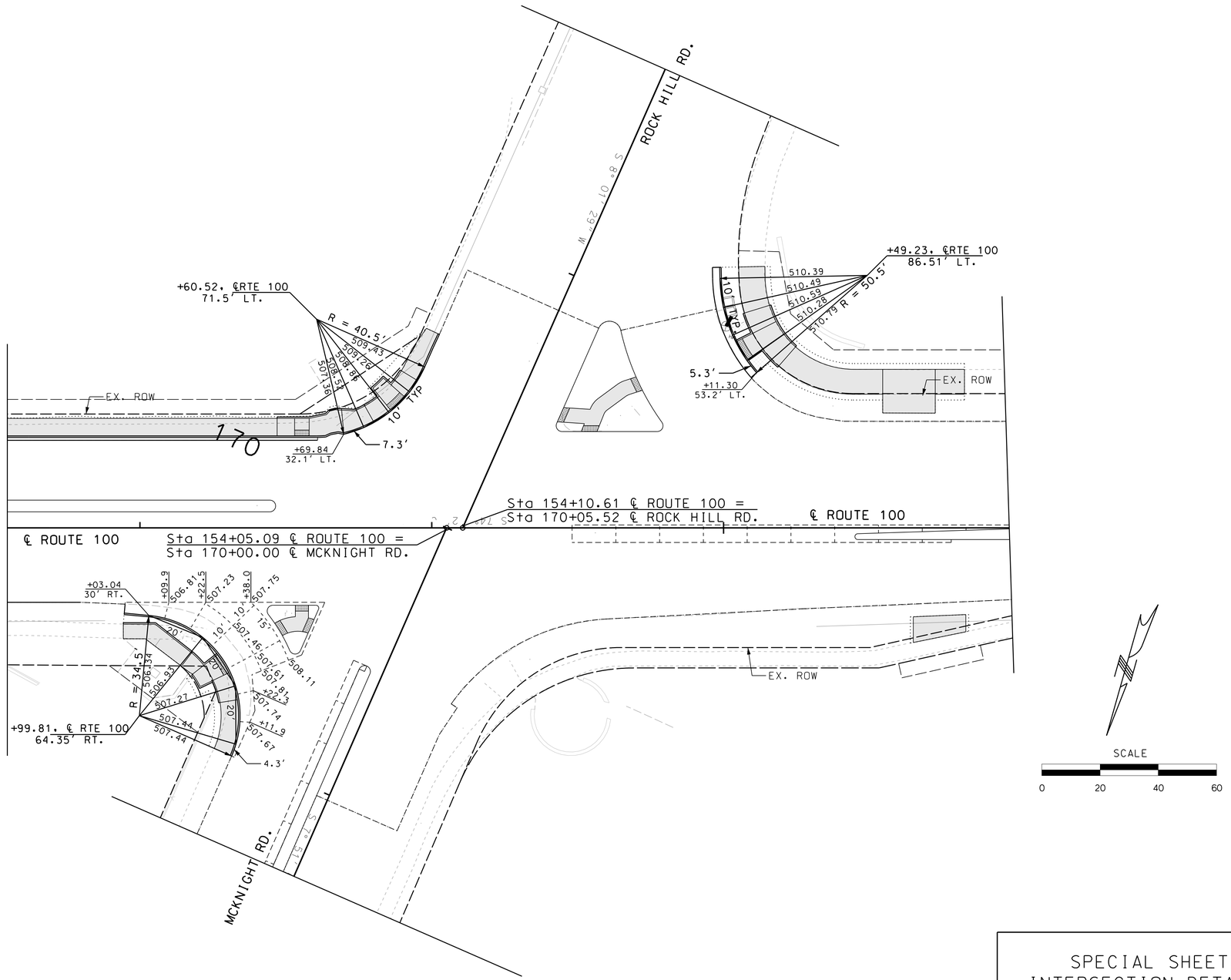
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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	IW003

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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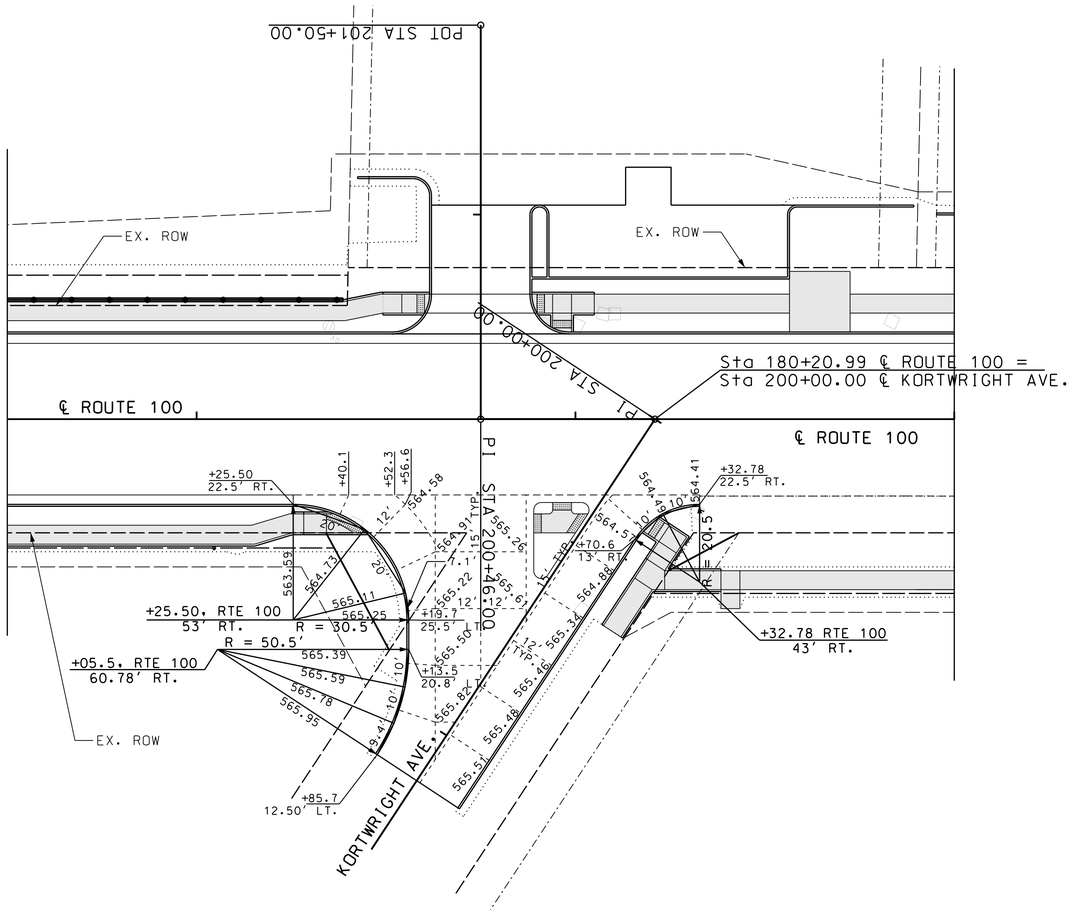
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
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SPECIAL SHEET
INTERSECTION DETAILS
SHEET 5 OF 10



SPECIAL SHEET
INTERSECTION DETAILS
SHEET 6 OF 10

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	IW004

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

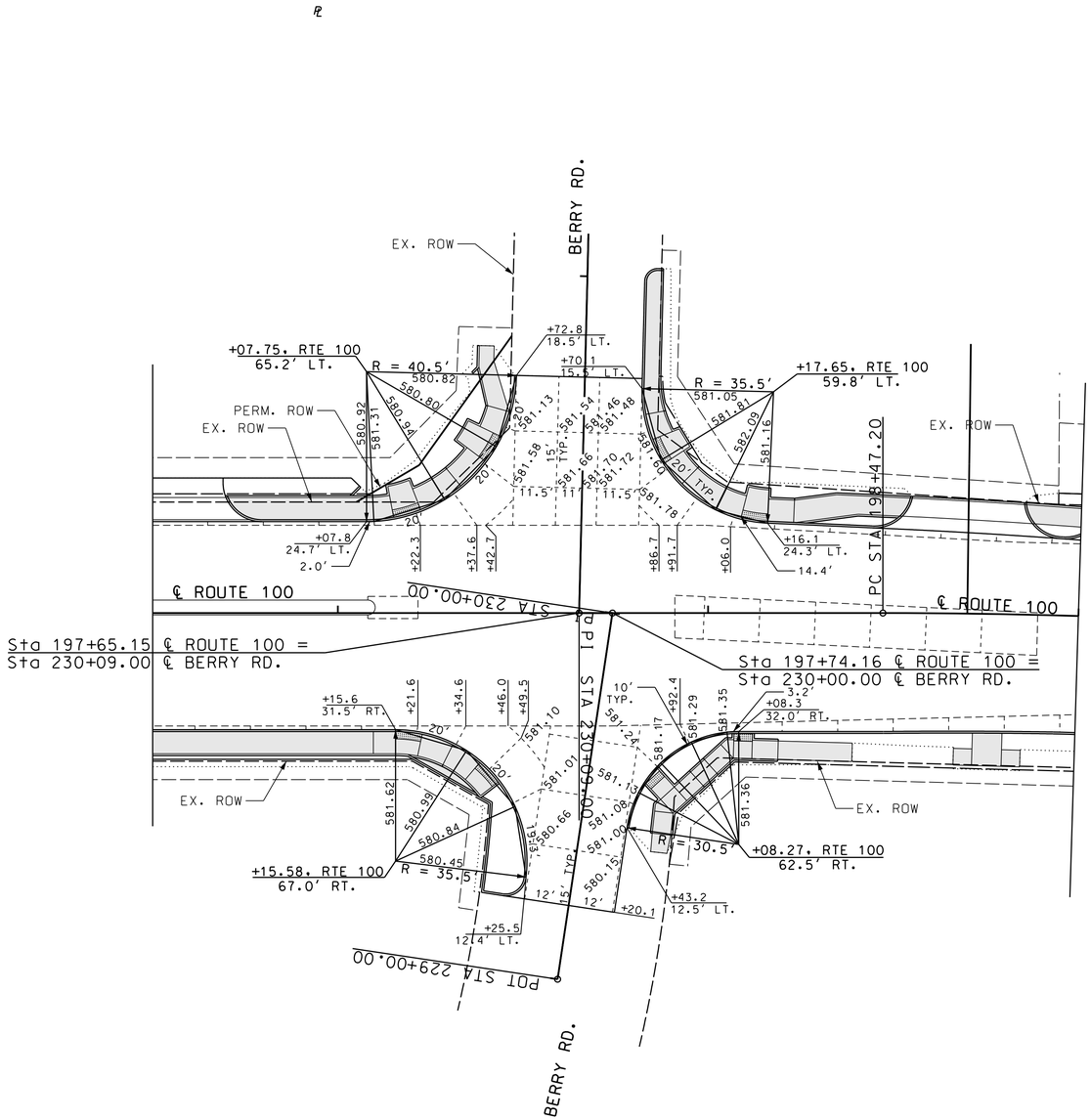
DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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SCALE

0 20 40 60

SPECIAL SHEET
INTERSECTION DETAILS
SHEET 7 OF 10

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	IW005

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

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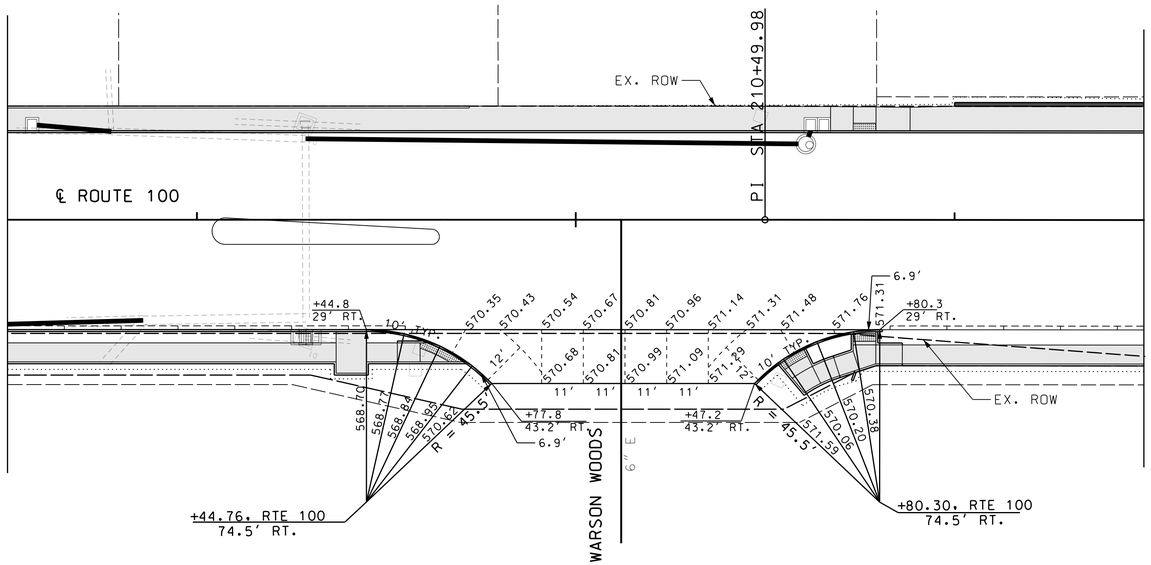
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REV.



SCALE

0 20 40 60

SPECIAL SHEET
INTERSECTION DETAILS
SHEET 8 OF 10

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	IW006

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

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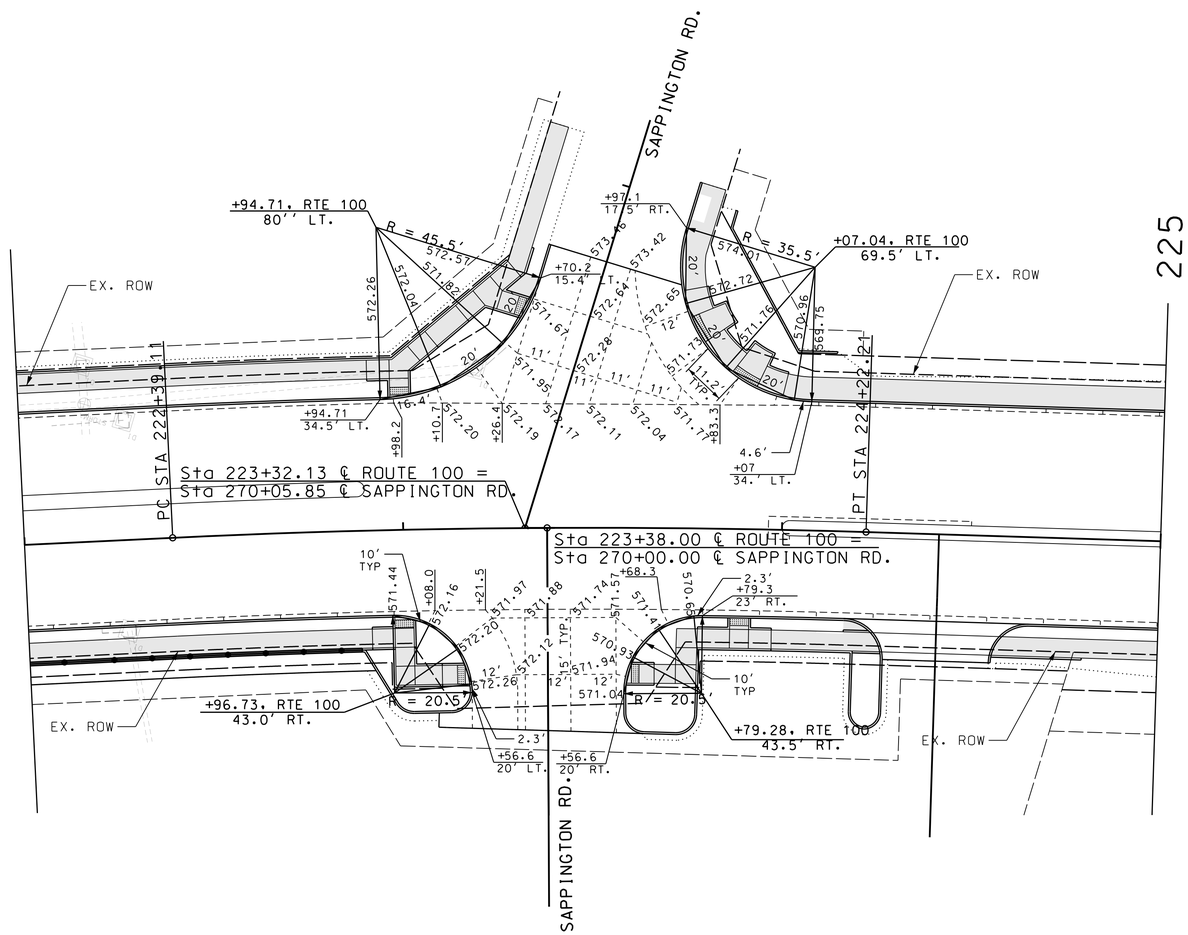
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DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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HDR Engineering, Inc.
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REV.



225

SCALE

0 20 40 60

SPECIAL SHEET
INTERSECTION DETAILS
SHEET 9 OF 10

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	IW007

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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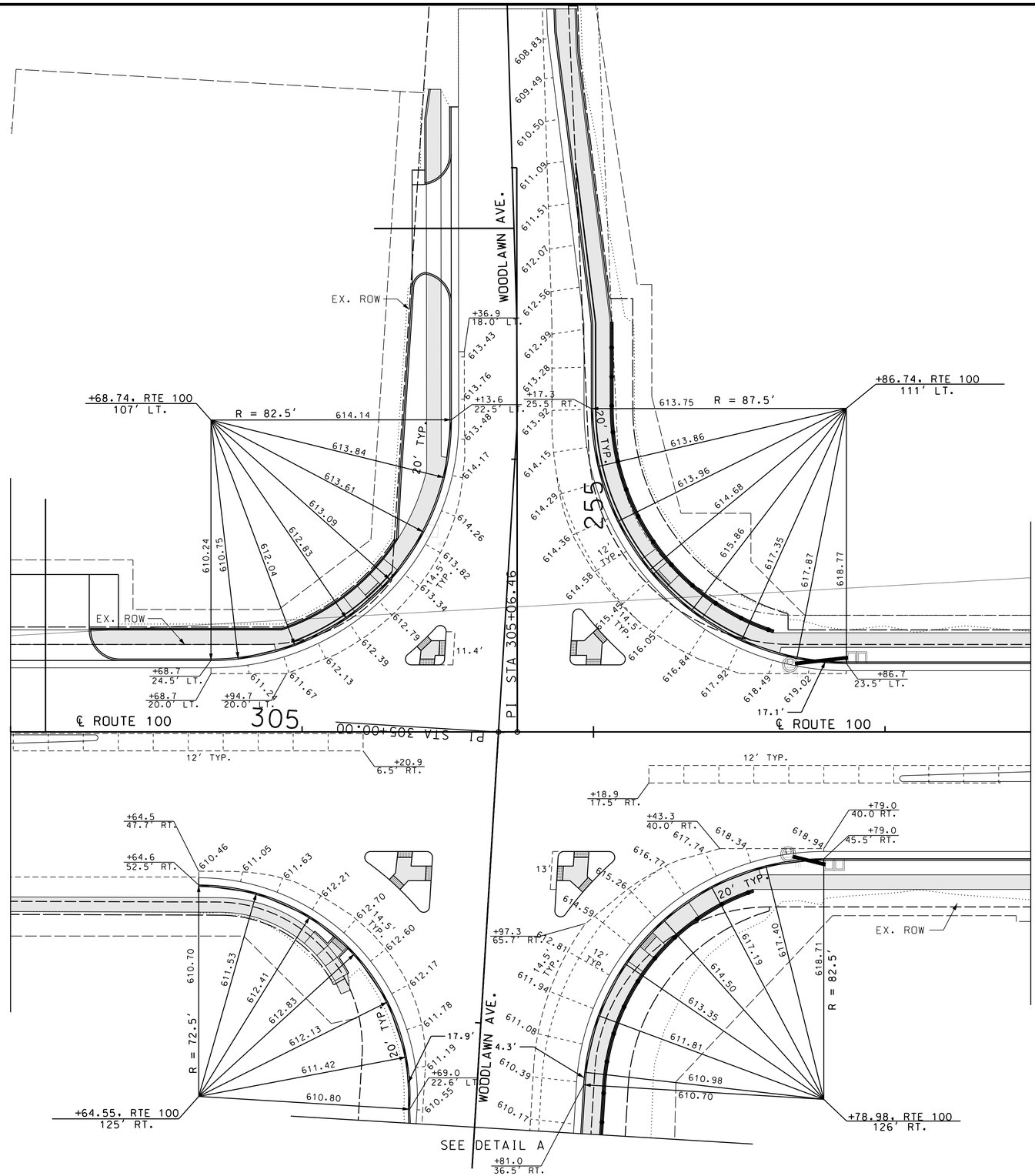
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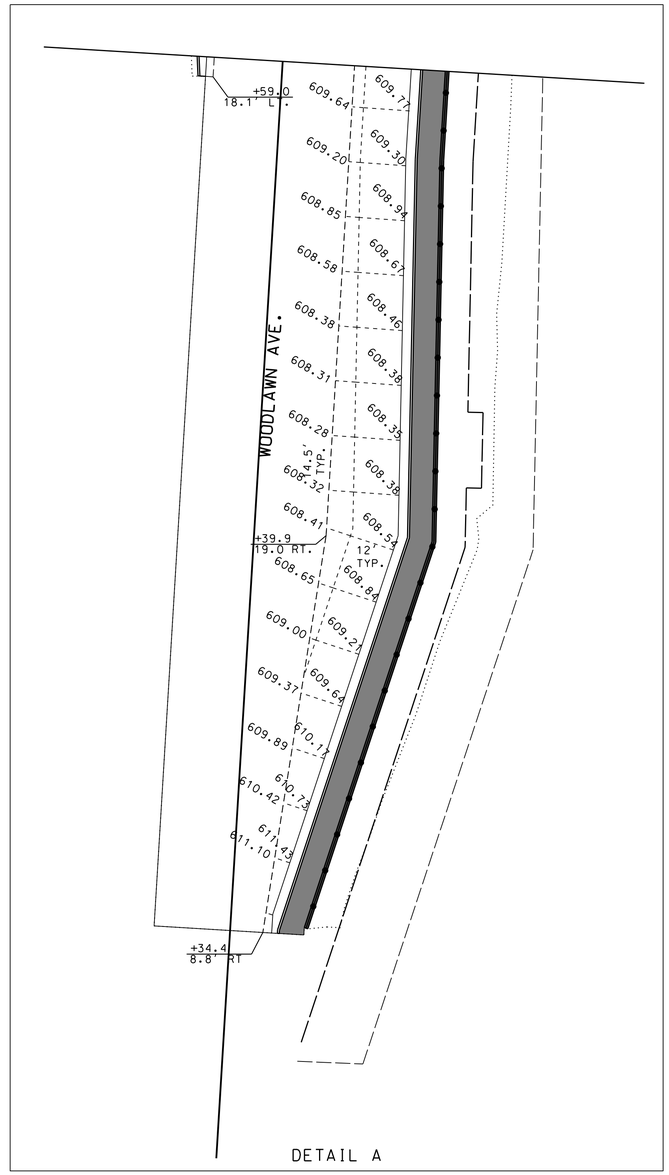
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SCALE
0 20 40 60

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SHEET 10 OF 10

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
IW008

DESCRIPTION	DATE

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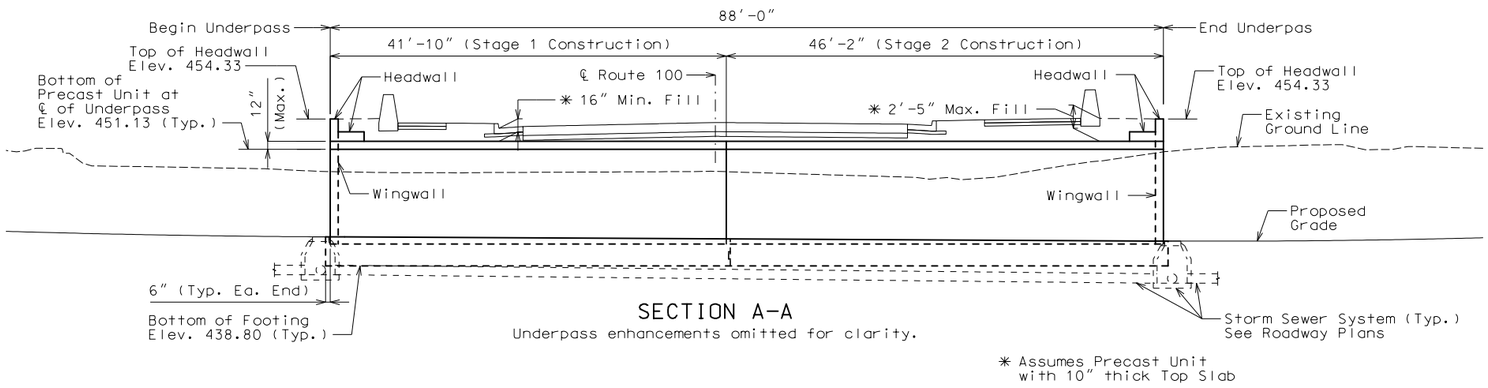
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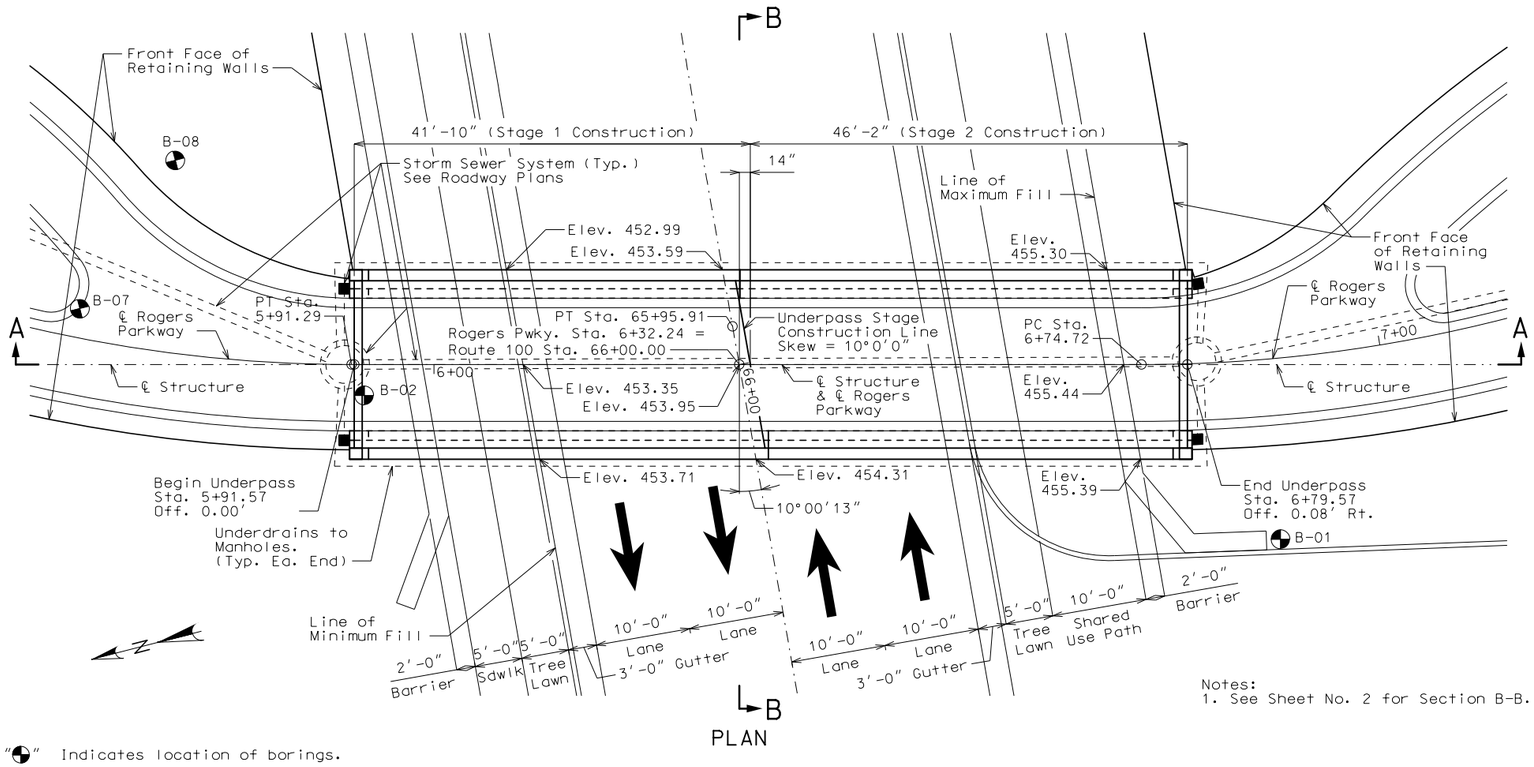
(16′ SPAN x 10′ RISE) THREE-SIDED PRECAST CONCRETE STRUCTURE



SECTION A-A

Underpass enhancements omitted for clarity.

✳ Assumes Precast Unit with 10″ thick Top Slab



PLAN

Notes:
1. See Sheet No. 2 for Section B-B.

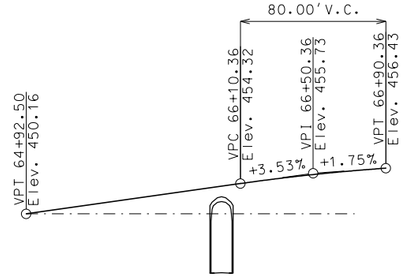
"⊕" Indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

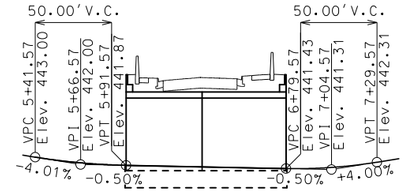
The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheet(s) No. 8 thru 9 or will be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Estimated Quantities			Final Quantities
Class 4 Excavation	cu. yard	XX	
Class B Concrete (Substructure)	cu. yard	50.2	
Reinforcing Steel (Epoxy Coated)	pound	1820	
Precast Concrete Structure	lump sum	1	
Waterproofing Membrane for Three-Sided Structure	lump sum	1	
Vertical Drain Core for Three-Sided Structure	lump sum	1	
Select Backfill for Structural Systems	cu. yard	XX	



ROUTE 100 PROFILE



ROGERS PARKWAY PROFILE

General Notes:

Design Specifications:
2012 AASHTO LRFD Bridge Design Speicications (6th Ed.) and 2013 Interim Revisions

Design Loadings:
Vehicular = HL-93 minus lane load
Earth = 120 lb/cf
Equivalent Fluid Pressure = 30 lb/cf (Min.), 60 lb/cf (Max.)

Design Unit Stresses:
Class B Concrete (Substructure) f′c = 3,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Flat-topped three-sided units will not be allowed.

Factored Design Reactions (per leg)from Three-Sided Structure used for Footing Design:
Vertical = 20 k/ft (DL + LL + IM)
Horizontal = 1.5 k/ft (DL + LL + IM)
If calculated reactions exceed these values, the Contractor shall notify the Engineer.

Traffic Handling: Traffic to be maintained on structures during construction. See roadway plans for traffic control and Sheets No. 3 thru 5 for staged construction details.

See Special Sheets for details of Underpass Enhancements.

B.M. #100 IRON ROD WITH CAP
EASTING = 864524.011
NORTHING = 1012073.584
ELEV. 451.33

B.M. #700 IRON ROD WITH CAP
EASTING = 864286.167
NORTHING = 1011686.323
ELEV. 449.34

UNDERPASS: ROUTE 100 OVER ROGERS PARKWAY

ROUTE 100 FROM BRENTWOOD BLVD. TO S. HANLEY RD.
ABOUT 0.2 MILES EAST OF BRENTWOOD BLVD.
TIE STATION 66+00.00

STD. 706.35

Detailed MAR. 2020
Checked MAR. 2020

Note: This drawing is not to scale. Follow dimensions.

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DATE PREPARED 3/20/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J61718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
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TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

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NOTES:

1. EXISTING GUIDE, WARNING AND REGULATORY SIGNS WITHIN THE WORK ZONE SHALL NOT CONFLICT WITH THE CONSTRUCTION SIGNING (SUCH AS SPEED LIMIT, BRIDGE CLEARANCE, ETC.) AND SHALL BE COVERED, REMOVED OR RELOCATED WITH NO DIRECT PAYMENT. CONSTRUCTION SIGNS SHALL NOT OBSTRUCT EXISTING SIGNS REMAINING IN PLACE.

2. ALL SPACING AND DISTANCES ARE APPROXIMATE. THEY MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

3. SEE STANDARD PLAN 616.10AV FOR TEMPORARY TRAFFIC CONTROL DEVICES DETAILS.

5. SEE STANDARD PLAN 619.10J FOR PAVEMENT EDGE TREATMENT DETAILS AND USE OF SIGNS W08-9, W08-9A AND W08-11.

6. SEE STANDARD PLAN 620.10G FOR TEMPORARY PAVEMENT MARKING DETAILS.

7. THE NUMBER OF SIGNS AND DEVICES ESTIMATED AND AS PART OF LUMP SUM TRAFFIC CONTROL ITEM XXXXXXX INCLUDES THE FOLLOWING:
   - MAXIMUM NUMBER BY STAGE AS SHOWN ON SHEETS TC03-TC13
   - DEER CREEK BRIDGE REHAB
   - ROGERS PARKWAY BRIDGE CONSTRUCTION
   - DETOUR DETAILS

   x - STATIONARY LANE CLOSURE (2000' WORK ZONE)
   x - SHOULDER WORK DETAIL WITH MINOR TRAVELWAY ENCROACHMENT (2000' WORK ZONE)
   x - SHOULDER WORK DETAIL WITH NO TRAVELWAY ENCROACHMENT (2000' WORK ZONE)
   x - OPERATIONS IN TWO-WAY LEFT TURN LANE ON MULTI-LANE UNDIVIDED HIGHWAYS (2000' WORK ZONE)
   x - HALF ROAD CLOSURE ON A MULTI-LANE HIGHWAY (2000' WORK ZONE)
   x - LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (500' WORK ZONE)
   x - LANE CLOSURE AT INTERSECTION (2000' WORK ZONE)
   x - SIDEWALK DETOUR OR DIVERSION (1 APPLICATION)

8. CONSTRUCTION SIGNS NOTED AS POST-MOUNTED (POST) SHALL BE MOUNTED PER STANDARD PLAN 616.10AV.

9. THE SPEED LIMIT DURING ACTIVE CONSTRUCTION SHALL BE 25 M.P.H. WHERE EXISTING POSTED SPEED LIMIT IS 30 M.P.H. AND 30 M.P.H. WHERE EXISTING POSTED SPEED IS 35 M.P.H. UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL PLAN.

10. CONFLICTING STRIPING SHALL BE REMOVED PRIOR TO GUIDING TRAFFIC THROUGH WORK ZONES. ANY STRIPING WHICH IS DAMAGED DURING A DAYS WORK SHALL BE RE-STRIPED NO LATER THAN THE END OF THE SAME DAY.

12. NON-CONFLICTING WORK MAY BE CONSTRUCTED CONCURRENTLY IN DIFFERENT STAGES WITH THE APPROVAL OF THE ENGINEER.

13. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CONSTRUCTION TRAFFIC CONTROL SIGNS.

14. ALL WARNING SIGNS SHALL HAVE A FLUORESCENT SHEETING.

15. WORDING FOR CHANGEABLE MESSAGE SIGNS SHALL BE AS APPROVED OR DIRECTED BY THE ENGINEER.

16. EXACT LOCATIONS FOR CHANGEABLE MESSAGE SIGNS SHALL BE AS DIRECTED BY THE ENGINEER.

17. MISSOURI ONE CALL (800 DIG RITE) SHALL BE CONTACTED FOR LOCATES (800-344-7483 OR 811) BEFORE BEGINNING ANY EXCAVATION OR BORING ACTIVITIES.

19. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THE COMMISSION DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE TO THEM. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION NOTES

1. TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.
2. REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
4. A FLASHING ARROW BOARD SHALL BE USED WHEN A LANE IS CLOSED. WHEN MORE THAN ONE LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH LANE.
5. ALTERNATIVE TEMPORARY TRAFFIC CONTROL SET-UPS SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.
6. UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.
7. PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
8. VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.
9. FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

CONSTRUCTION SEQUENCING

PHASE 1

1. INSTALL PROJECT ADVANCE WARNING SIGNS AND PHASE 1 TRAFFIC CONTROL DEVICES.

2. INSTALL LANE SHIFTS FOR THE CONSTRUCTION OF THE EB PORTION OF THE ROGERS PARKWAY CULVERT AND IMPLEMENT THE STAGE 1 CONSTRUCTION OF THE CULVERT AND GRADE RAISE OF ROUTE 100. INSTALL TEMPORARY PAVEMENT ALONG EASTBOUND LANES PRIOR TO SHIFTING TRAFFIC.

3. SHIFT TRAFFIC TO THE NEWLY COMPLETED ROUTE 100 EB LANES AND INSTALL STAGE 2 OF THE ROGERS PARKWAY CULVERT.

PHASE 2

1. INSTALL LANE SHIFTS FOR THE CONSTRUCTION OF THE EB PORTION OF THE BRIDGE (A4844) OVER DEER CREEK AND CONSTRUCT THE STAGE 1 REHAB OF THIS STRUCTURE.

2. SHIFT TRAFFIC TO THE NEWLY COMPLETED ROUTE 100 EB LANES AND CONSTRUCT STAGE 2 OF THE BRIDGE (A4844) OVER DEER CREEK REHAB.

PHASE 3

1. INSTALL DETOUR FOR CONSTRUCTION OF BRIDGE (A8717) OVER BLACK CREEK.

PHASE 4

1. APPLY LANE CLOSURES ALONG EB ROUTE 100 ALONG VARIOUS LOCATIONS AT THE DISCRETION OF THE ENGINEER FOR THE CONSTRUCTION OF VARIOUS IMPROVEMENTS AS SHOWN IN THE PLANS.

PHASE 5

1. APPLY LANE CLOSURES ALONG WB ROUTE 100 ALONG VARIOUS LOCATIONS AT THE DISCRETION OF THE ENGINEER FOR THE CONSTRUCTION OF VARIOUS IMPROVEMENTS AS SHOWN IN THE PLANS.

TRAFFIC CONTROL LEGEND

	EXISTING PAVEMENT
	CONSTRUCTION (THIS STAGE)
→	TRAFFIC USAGE
	TEMPORARY TRAFFIC BARRIER
	IMPACT ATTENUATOR
•	SIGN (SINGLE SIDED)
■	CHANNELIZERS (TRIM-LINE)
□	TEMPORARY RAISED PAVEMENT MARKER
▲	DIRECTIONAL INDICATOR BARRICADE
	TYPE III MOVEABLE BARRICADE
	CHANGEABLE MESSAGE SIGN (CONTRACTOR FURNISHED & RETAINED)
	FLASHING ARROW PANEL
	FLAGGER
(UIP)	USE IN PLACE
S.W.	SOLID WHITE
S.Y.	SOLID YELLOW
I.W.	INTERMITTENT WHITE
I.Y.	INTERMITTENT YELLOW
D.Y.	DOUBLE YELLOW
P	PROPOSED TEMPORARY LIGHTING FIXTURE
E	EXISTING LIGHTING FIXTURE
(R)	REMOVE

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TRAFFIC CONTROL GENERAL NOTES AND LEGEND

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DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP001

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

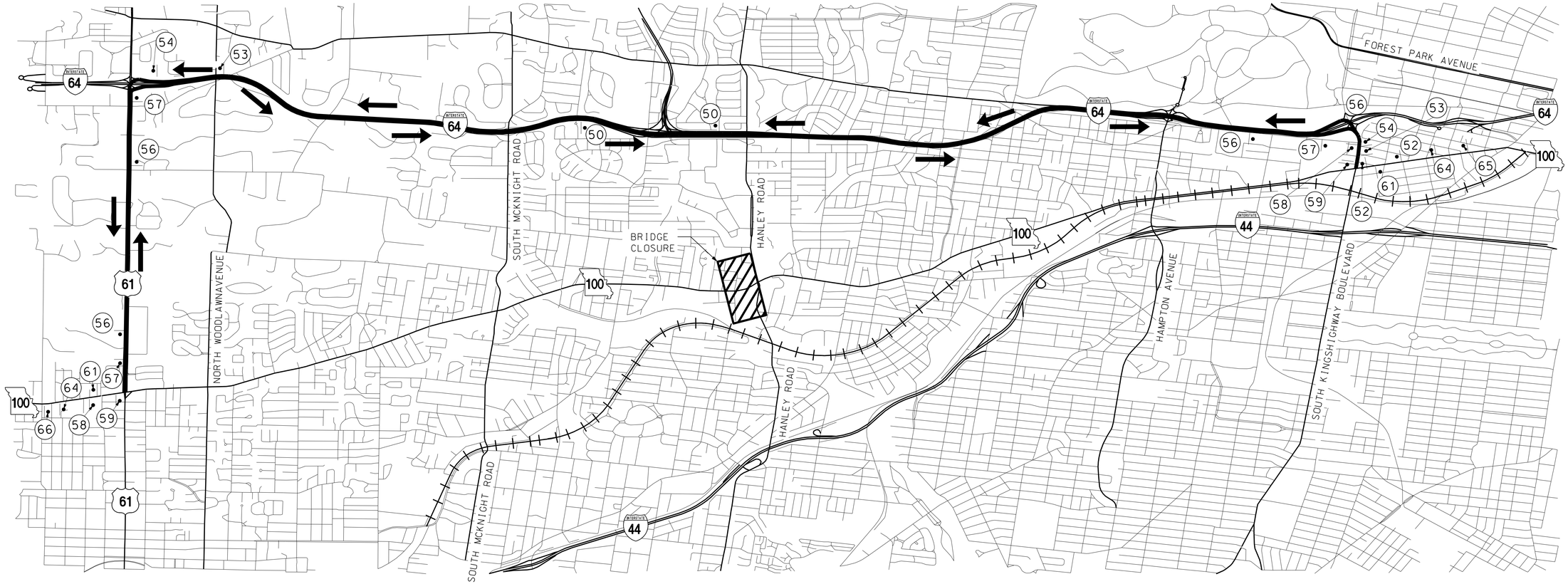
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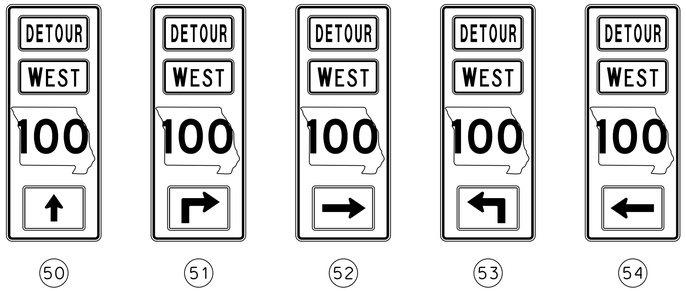
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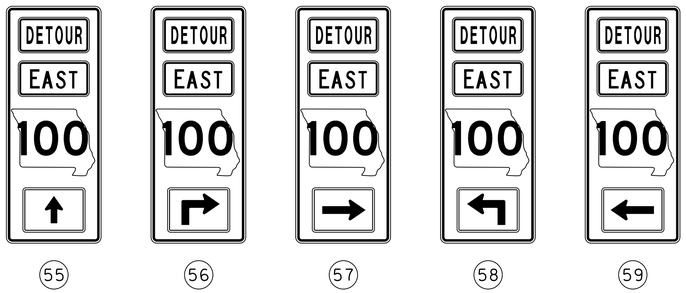
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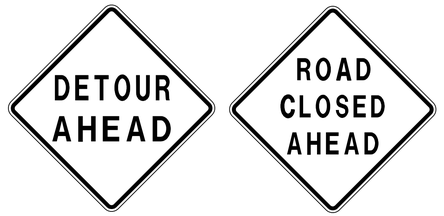
50 51 52 53 54



55 56 57 58 59



61



64 68



65



66

N.T.S.

GENERAL NOTES:

1. ALL SIGNS SHALL BE NON-PORTABLE, POST-MOUNTED UNLESS OTHERWISE NOTED.
2. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.
3. ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TRAFFIC CONTROL STATE ROUTE DETOUR

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ROUTE	STATE
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DISTRICT	SHEET NO.
SL	TCP023

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

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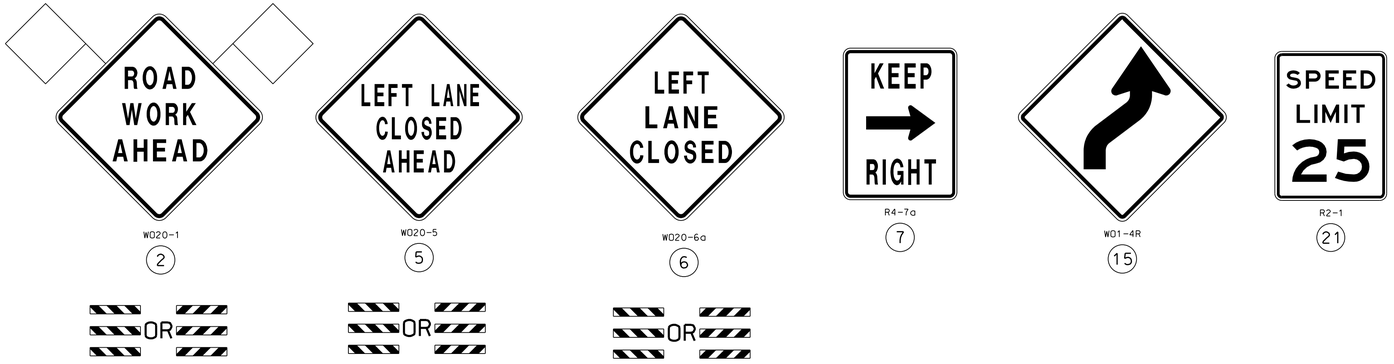
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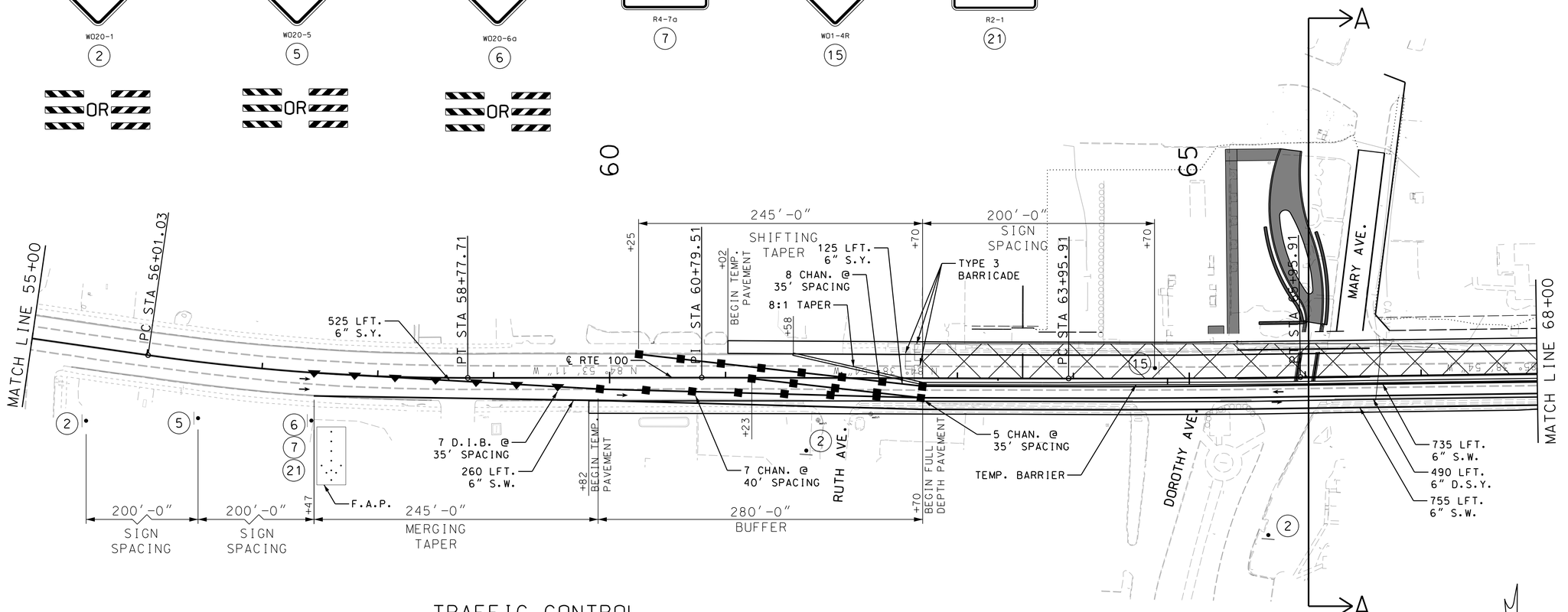
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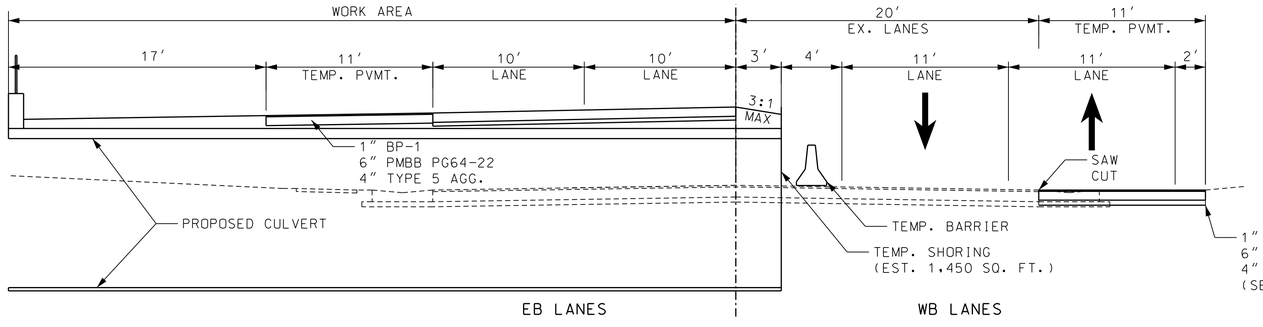
REV.

ASPHALT MATERIAL APPLICATION RATES	
ASPHALTIC MATERIAL	COMPACTED APPLICATION RATE
BP-1	1.948 TONS/CY
PMBB PG64-22	1.943 TONS/CY





TRAFFIC CONTROL
℄
ROUTE 100



SECTION A-A

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

SCALE
0 50 100 150

STAGING NOTES:
1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, AND 6.
4. TEMPORARY PAVEMENT SHALL BE INSTALLED PRIOR TO STAGE 1 USING TYPICAL APPLICATION "STATIONARY LANE CLOSURE" OR "SHOULDER WORK DETAIL WITH MINOR TRAVELWAY ENCROACHMENT".

TRAFFIC CONTROL

STAGE 1
ROGERS PARKWAY

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP002

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

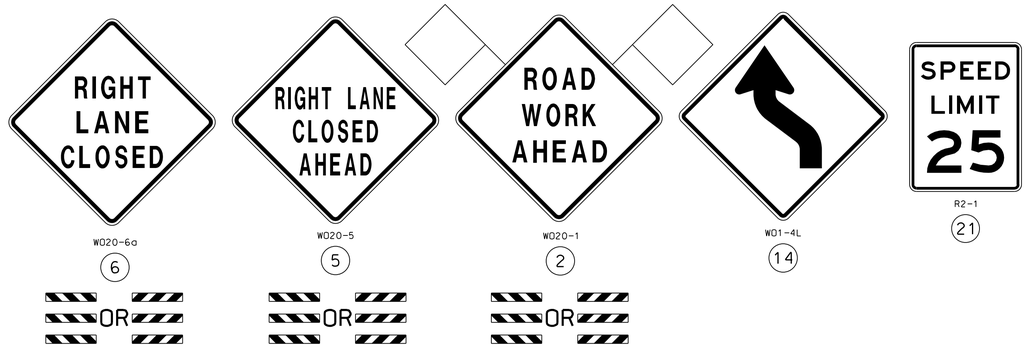
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

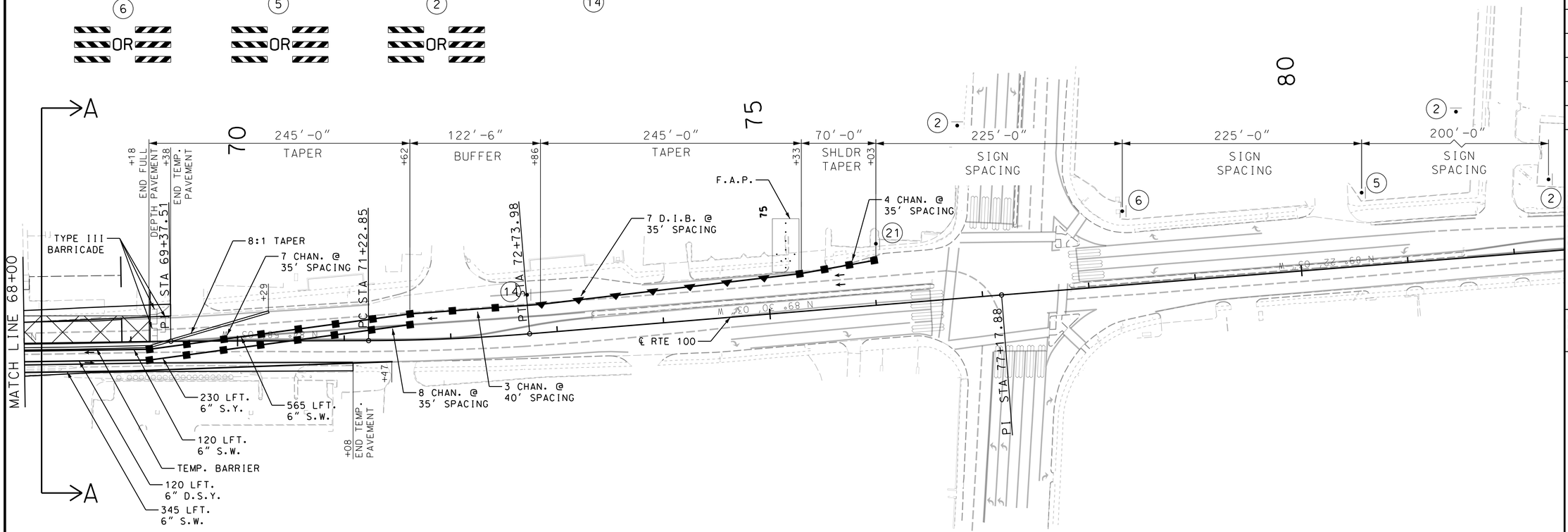
REV.	DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

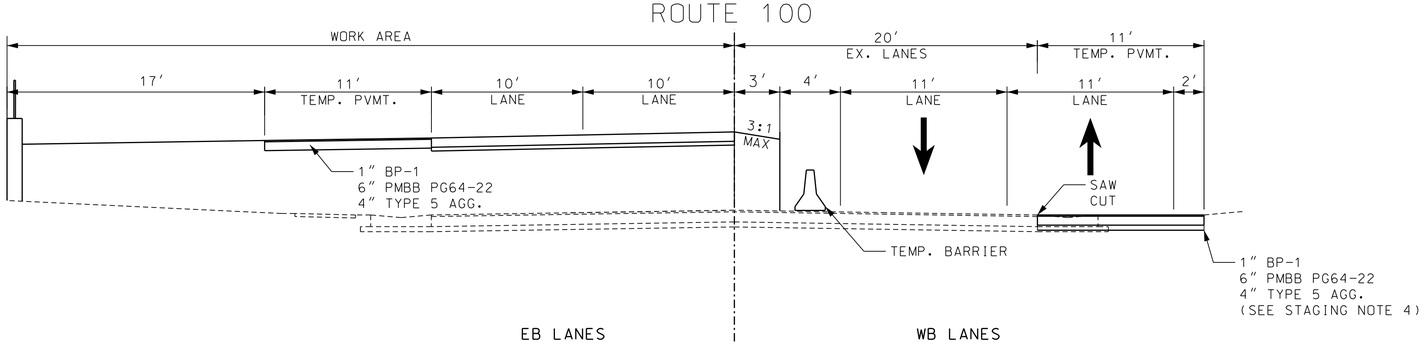


ASPHALT MATERIAL APPLICATION RATES	
ASPHALTIC MATERIAL	COMPACTED APPLICATION RATE
BP-1	1.948 TONS/CY
PMBB PG64-22	1.943 TONS/CY



TRAFFIC CONTROL

℄ ROUTE 100



SECTION A-A

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

STAGING NOTES:

1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, AND 6.
4. TEMPORARY PAVEMENT SHALL BE INSTALLED PRIOR TO STAGE 1 USING TYPICAL APPLICATION "STATIONARY LANE CLOSURE" OR "SHOULDER WORK DETAIL WITH MINOR TRAVELWAY ENCROACHMENT".

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 1
ROGERS PARKWAY

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP003

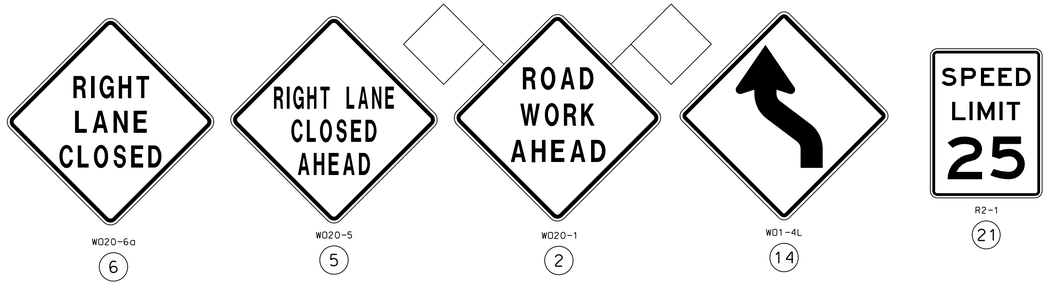
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

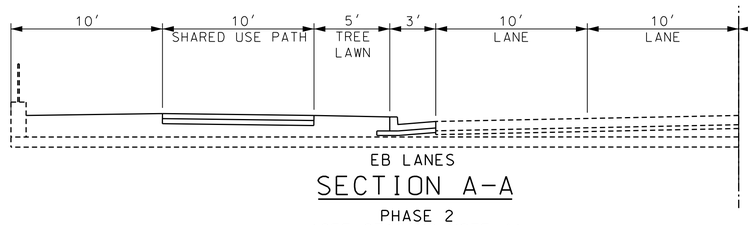
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



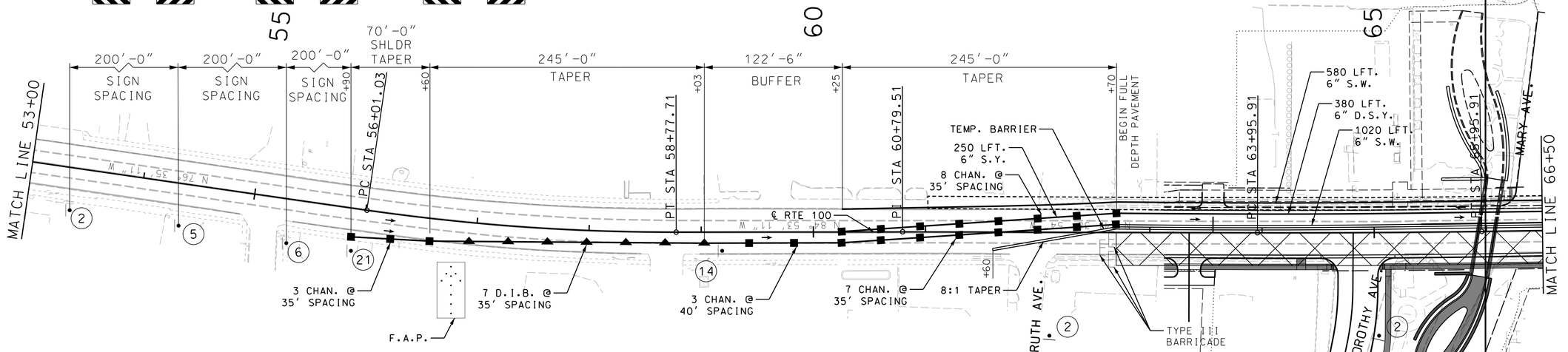
TRAFFIC CONTROL

℄ ROUTE 100



SECTION A-A

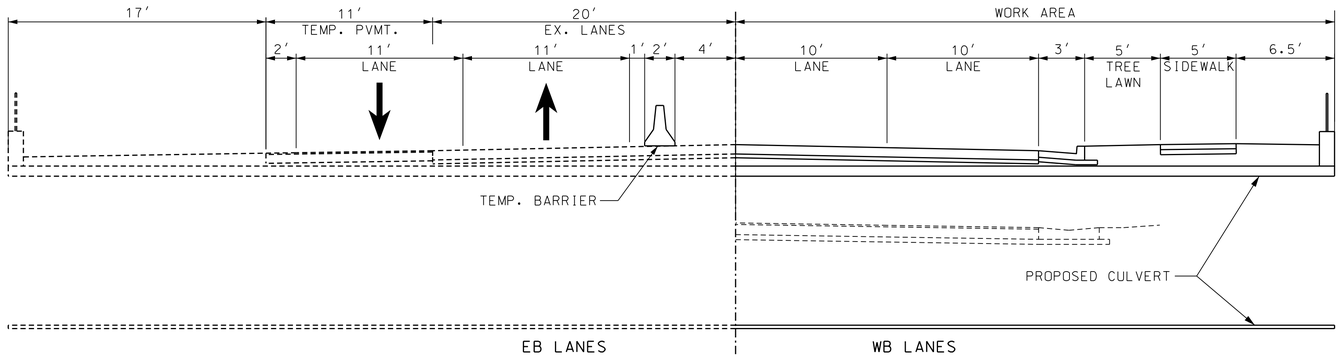
PHASE 2
(SEE STAGING NOTE 4)



TRAFFIC CONTROL

℄

ROUTE 100



SECTION A-A

PHASE 1

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

STAGING NOTES:

1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, AND 6.
4. TEMPORARY PAVEMENT SHALL BE REMOVED AFTER PHASE 1 AND PHASE 2 ELEMENTS INSTALLED USING TYPICAL APPLICATION "STATIONARY LANE CLOSURE" OR "SHOULDER WORK DETAIL WITH MINOR TRAVELWAY ENCROACHMENT".

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 2
ROGERS PARKWAY

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	TCP004
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

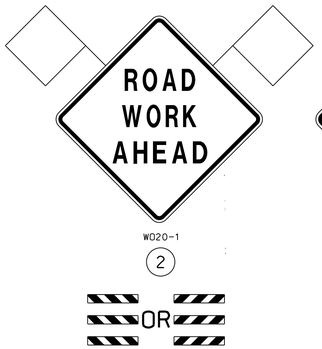
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

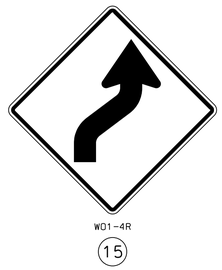
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856







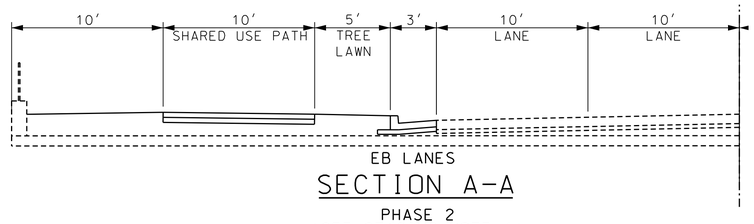






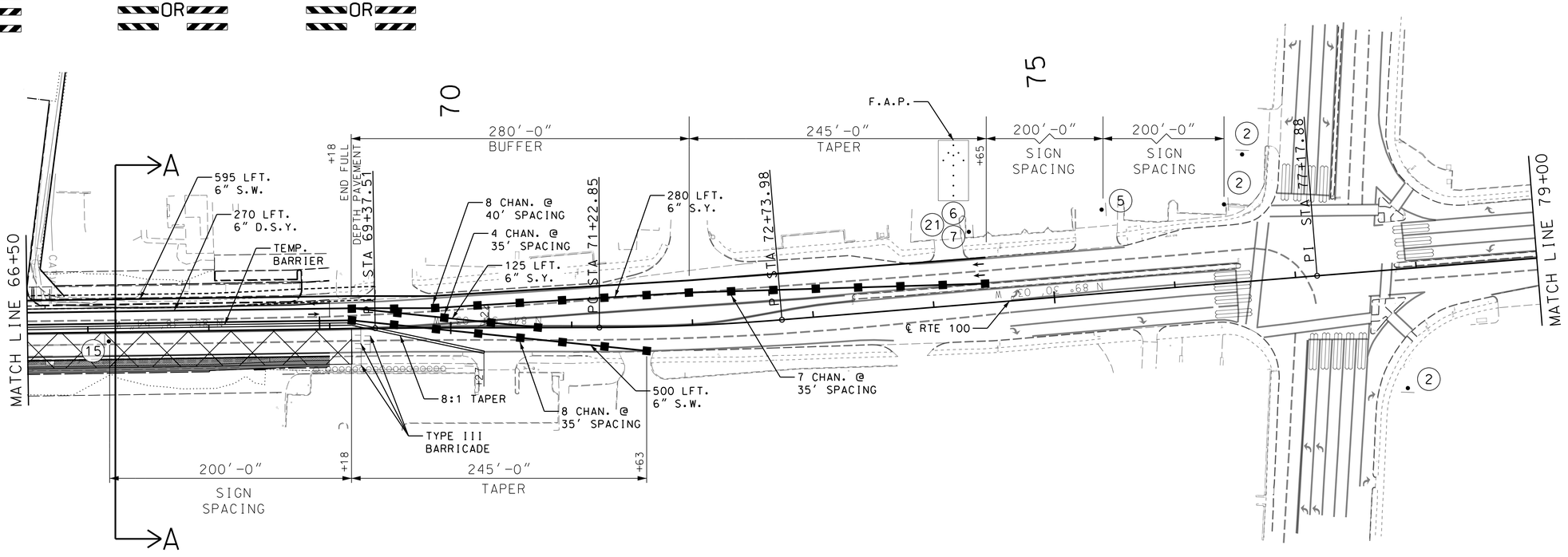
TRAFFIC CONTROL

℄ ROUTE 100



SECTION A-A

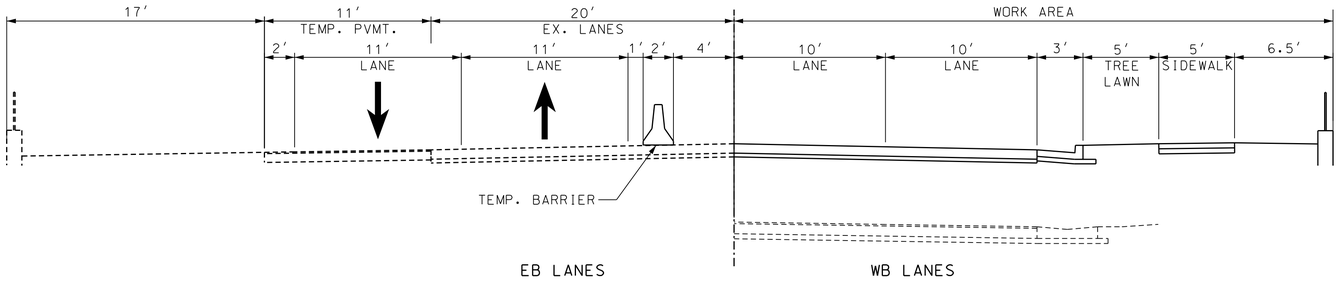
PHASE 2
(SEE STAGING NOTE 4)



TRAFFIC CONTROL

℄

ROUTE 100



SECTION A-A

PHASE 1

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

STAGING NOTES:

1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, AND 6.
4. TEMPORARY PAVEMENT SHALL BE REMOVED AFTER PHASE 1 AND PHASE 2 ELEMENTS INSTALLED USING TYPICAL APPLICATION "STATIONARY LANE CLOSURE" OR "SHOULDER WORK DETAIL WITH MINOR TRAVELWAY ENCROACHMENT".

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 2
ROGERS PARKWAY

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP005

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

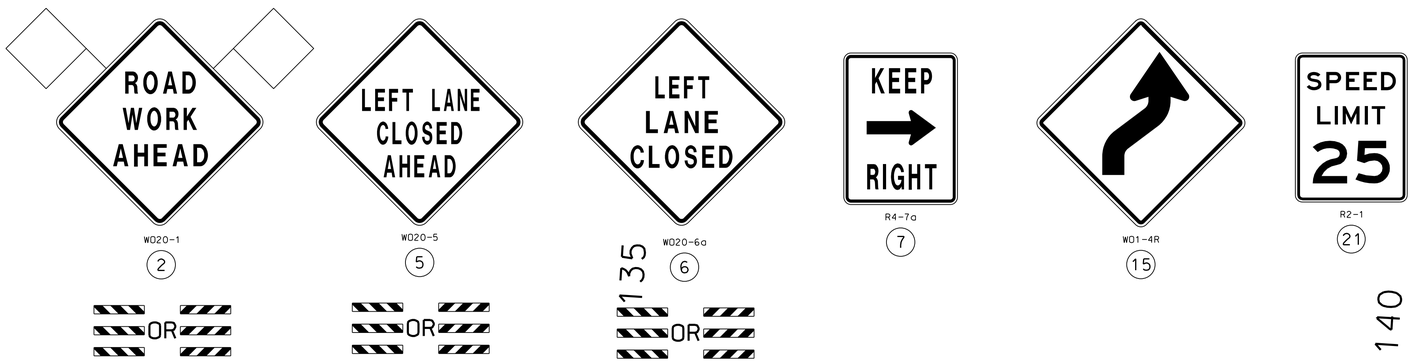
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

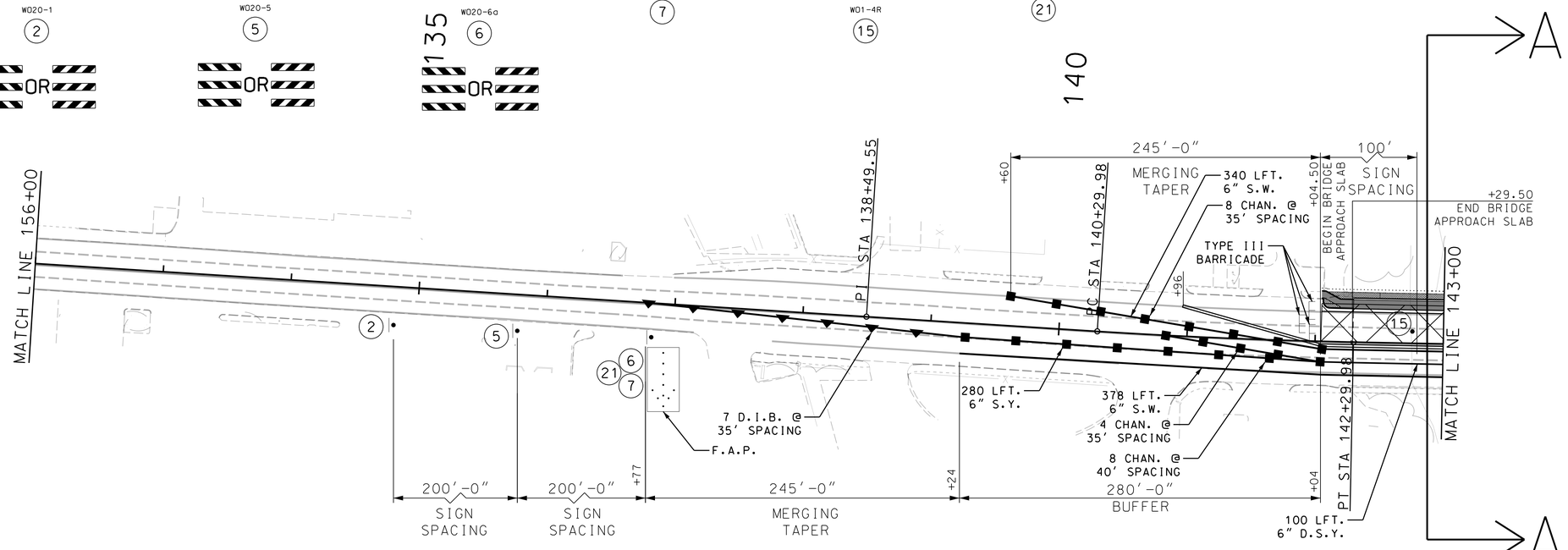
SHEET TITLE NAME

ROUTE/STREET NAME

SHEET XX OF 64

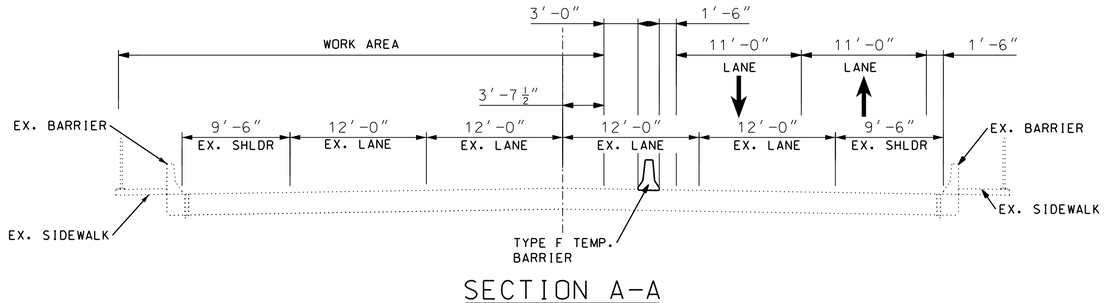
REV.





TRAFFIC CONTROL

℄ ROUTE 100



SECTION A-A

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

STAGING NOTES:

1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, AND 6.

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 1
DEER CREEK

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	TCP006
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

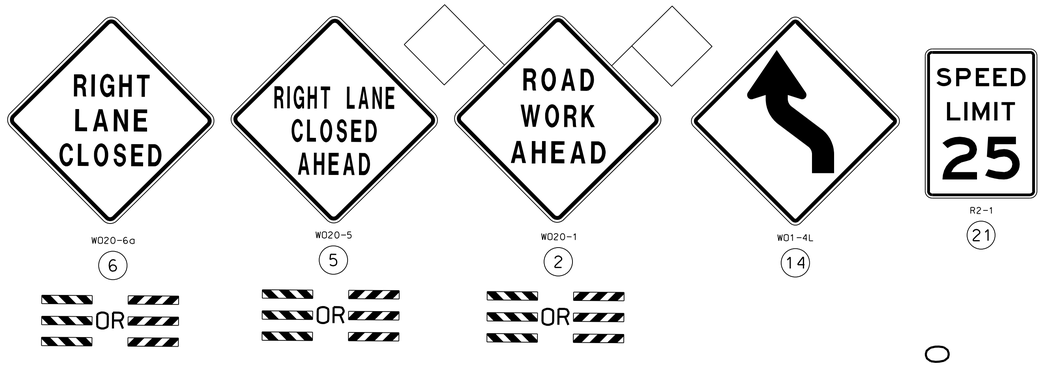
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

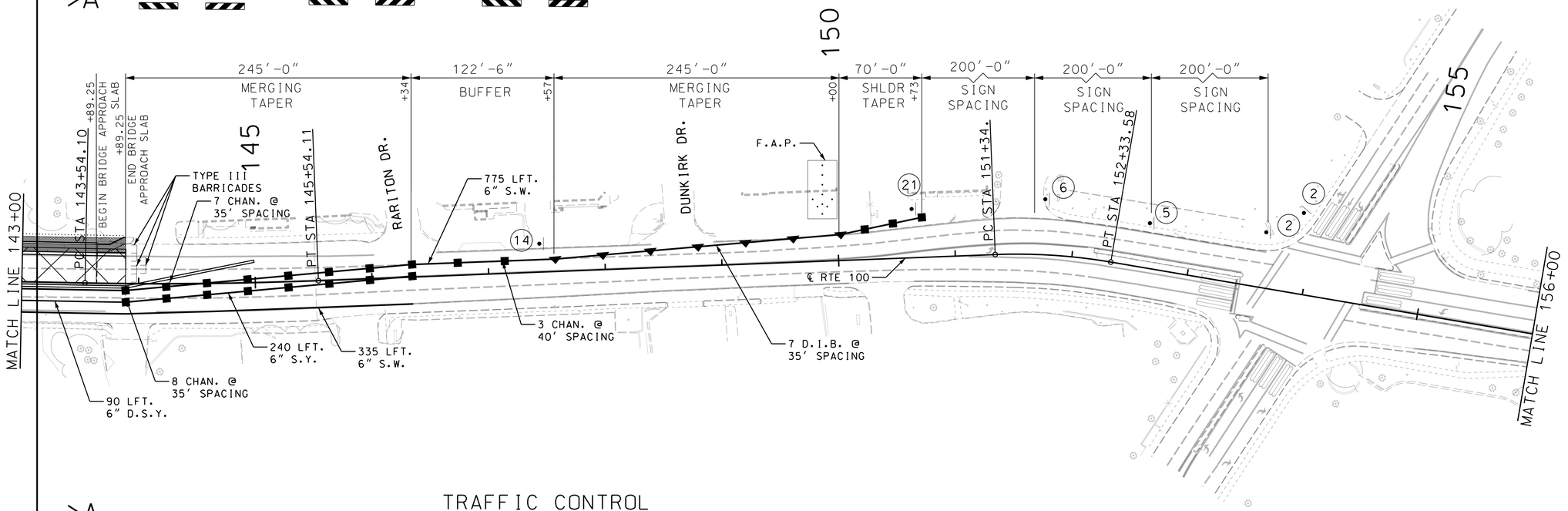
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

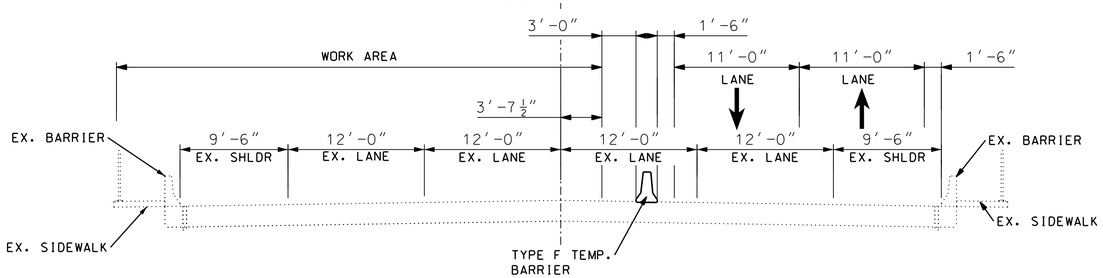
REV.

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TRAFFIC CONTROL
℄ ROUTE 100



SECTION A–A

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

STAGING NOTES:

1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2. 5. AND 6.

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 1
DEER CREEK

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP007

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

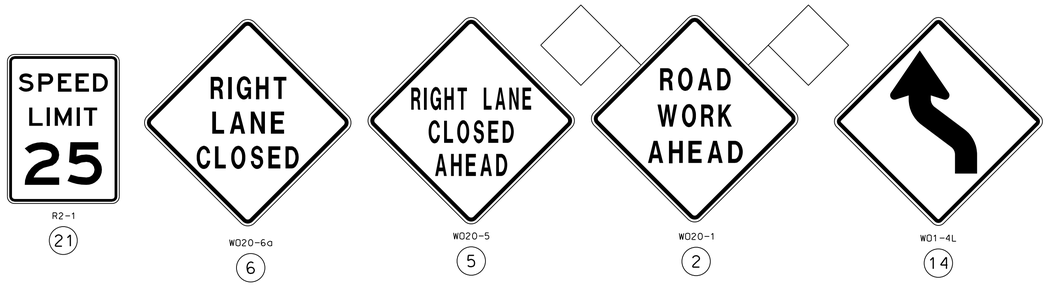
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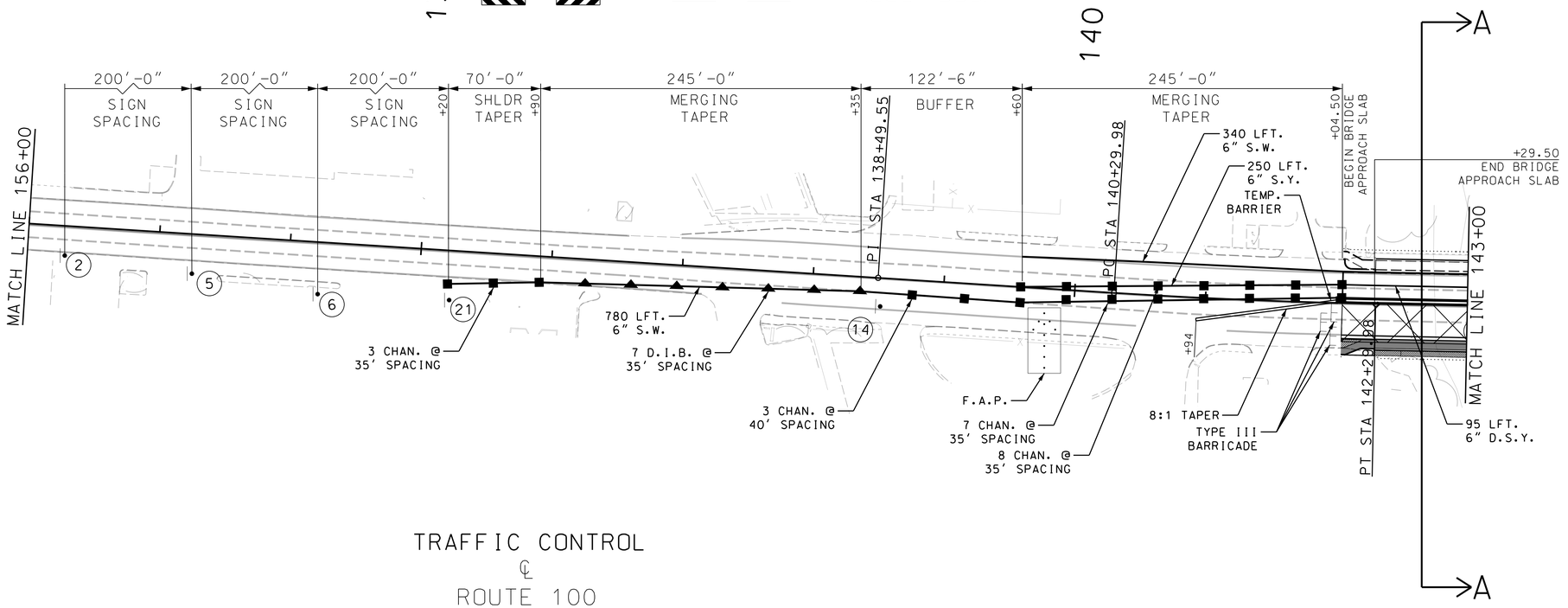
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

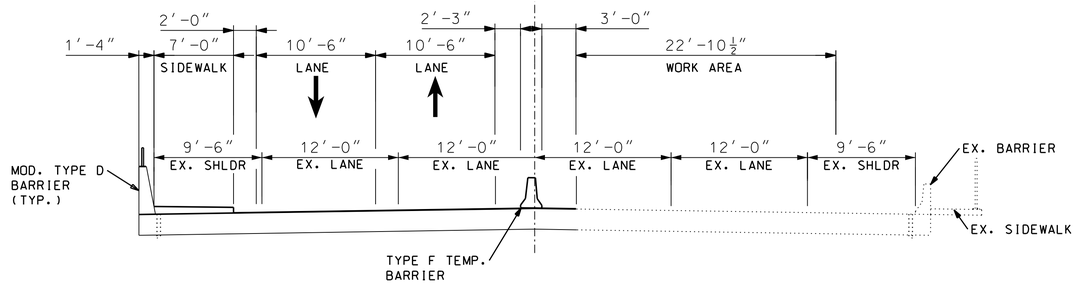




TRAFFIC CONTROL

℄

ROUTE 100



SECTION A-A

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

STAGING NOTES:

1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, AND 6.

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 2
DEER CREEK

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP008

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

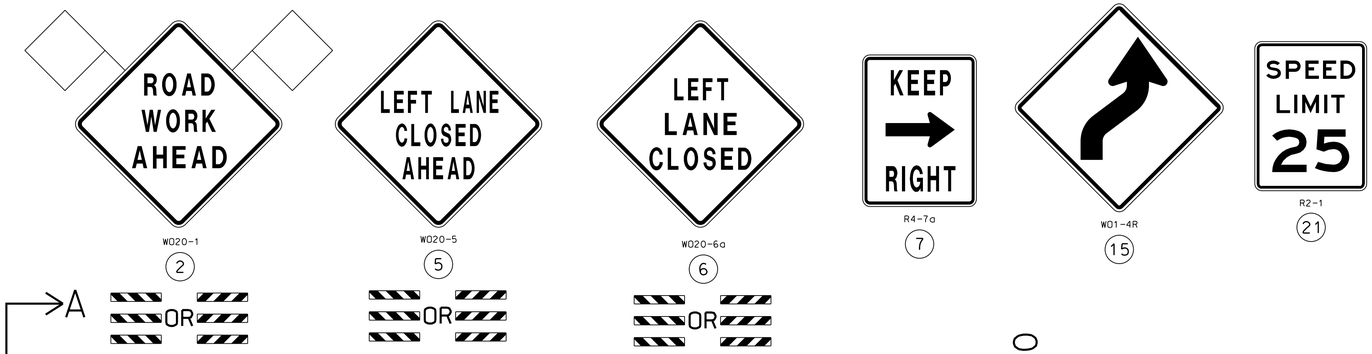
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

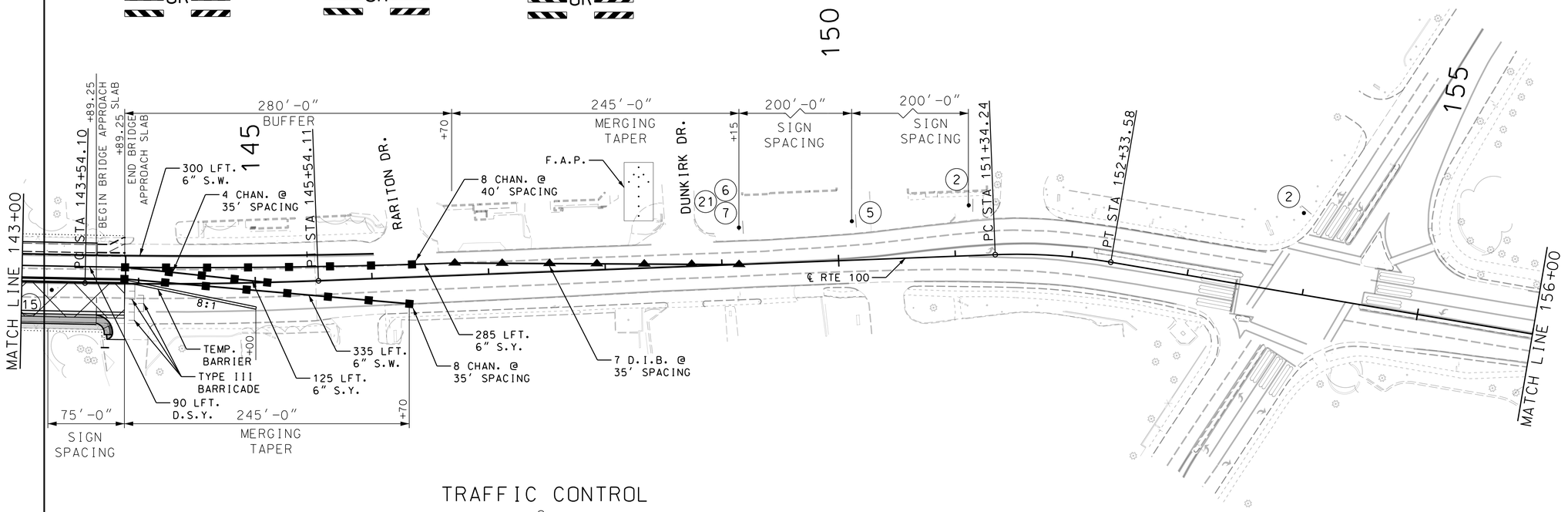
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

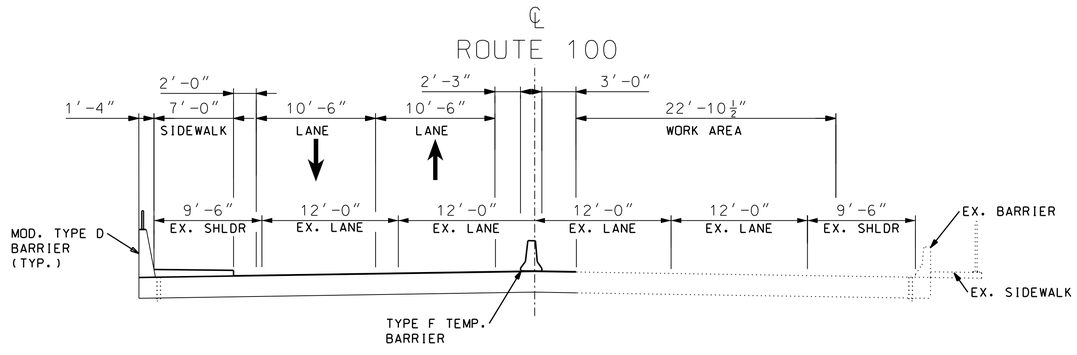
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.





TRAFFIC CONTROL



SECTION A-A

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVEABLE BARRICADE
- WORK ZONE

STAGING NOTES:

1. CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN.
2. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
3. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2. 5. AND 6.

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 2
DEER CREEK

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP009

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



W020-6a

6



W020-5

5



W020-3a

67



W020-3

68



W020-1

2



W020-5

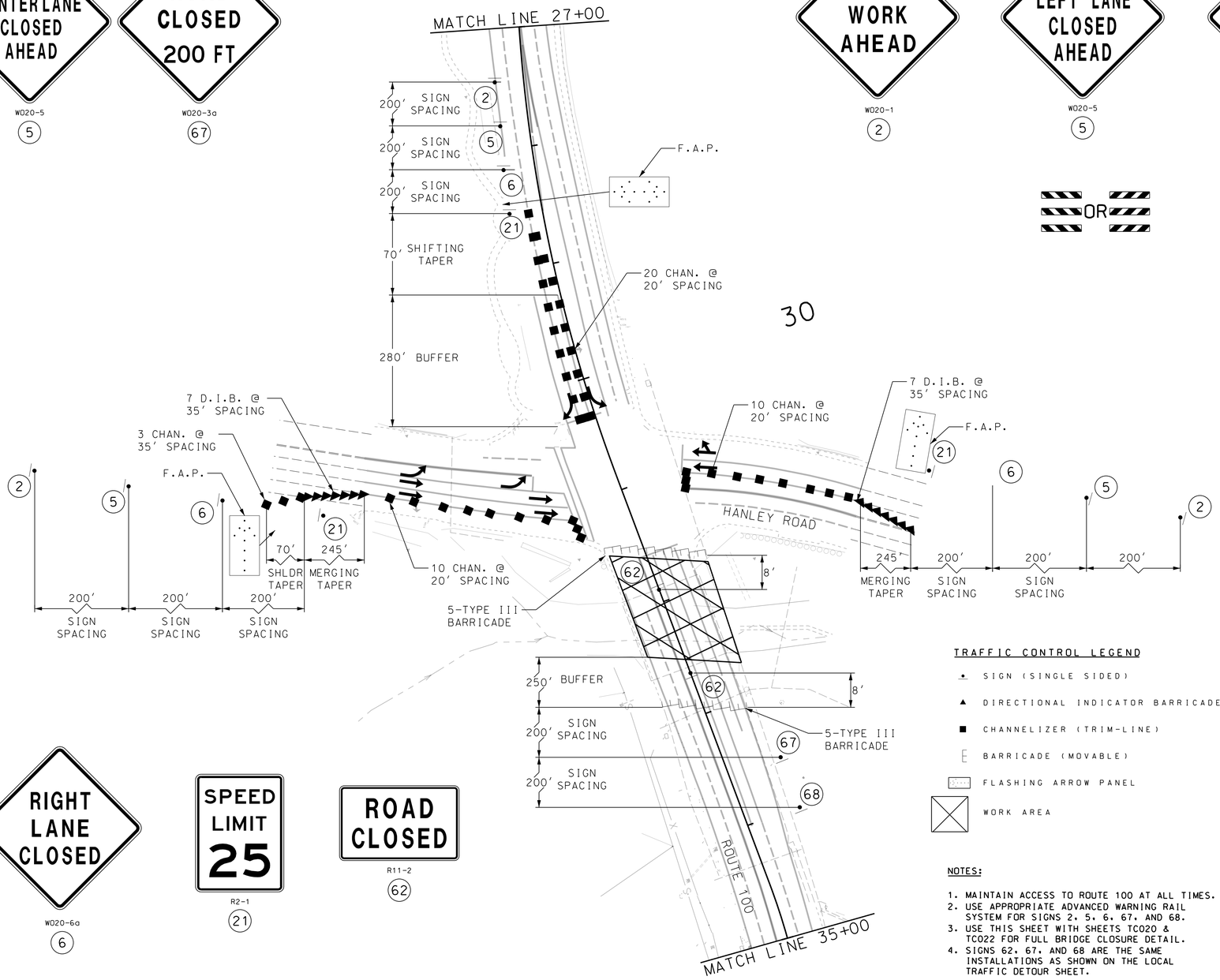
5



W020-6a

6

OR





W020-5

5



W020-6a

6

R2-1

21

R11-2

62

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- BARRICADE (MOVABLE)
- FLASHING ARROW PANEL
- WORK AREA

NOTES:

1. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
2. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, 6, 67, AND 68.
3. USE THIS SHEET WITH SHEETS TC020 & TC022 FOR FULL BRIDGE CLOSURE DETAIL.
4. SIGNS 62, 67, AND 68 ARE THE SAME INSTALLATIONS AS SHOWN ON THE LOCAL TRAFFIC DETOUR SHEET.

SCALE

0 50 100 150

TRAFFIC CONTROL

HANLEY BRIDGE CLOSURE
1 OF 2

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	TCP021
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

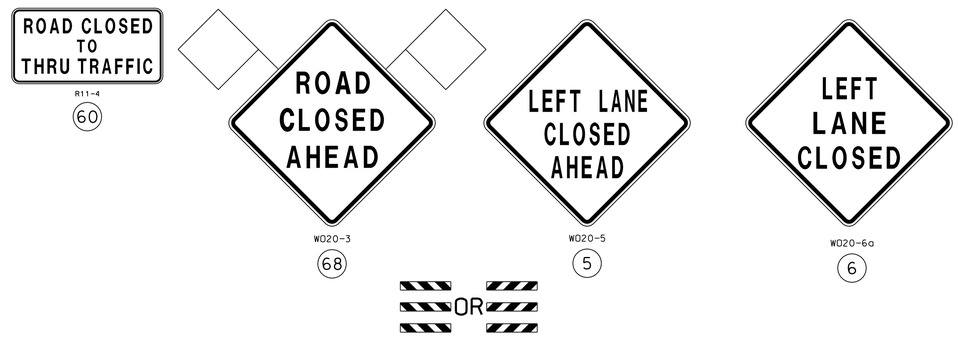
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

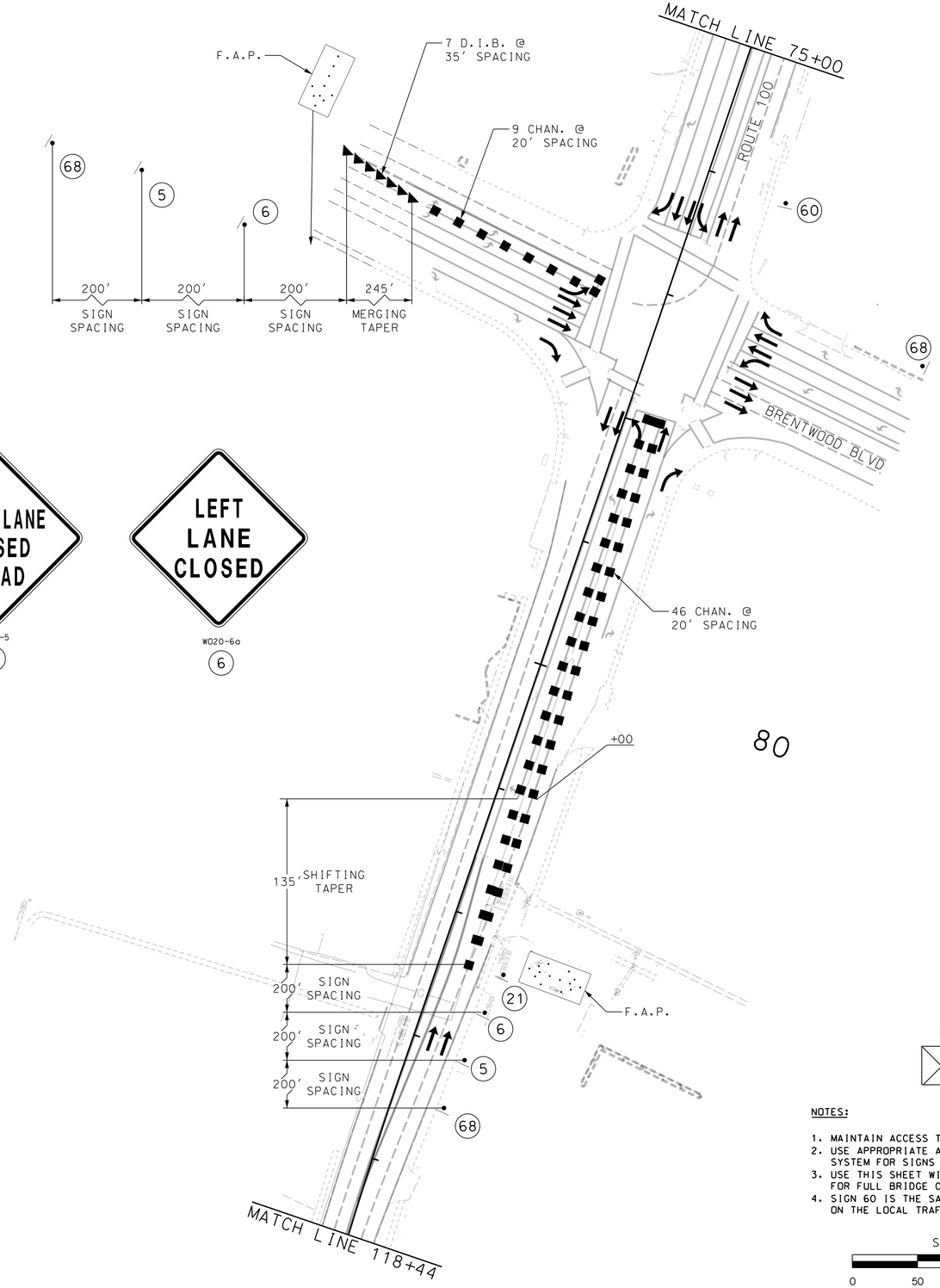
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REV.

c:\pwworking\central01\d0580437\XXX12_TCP12_J6S1718_I50.dgn 10:31:11 AM 2/4/2020







TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- BARRICADE (MOVABLE)
- FLASHING ARROW PANEL
- WORK AREA

NOTES:

1. MAINTAIN ACCESS TO ROUTE 100 AT ALL TIMES.
2. USE APPROPRIATE ADVANCED WARNING RAIL SYSTEM FOR SIGNS 2, 5, 6, 67, AND 68.
3. USE THIS SHEET WITH SHEETS TC020 & TC021 FOR FULL BRIDGE CLOSURE DETAIL.
4. SIGN 60 IS THE SAME INSTALLATION AS SHOWN ON THE LOCAL TRAFFIC DETOUR SHEET.

SCALE

0 50 100 150

TRAFFIC CONTROL

HANLEY BRIDGE CLOSURE
2 OF 2

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TCP022

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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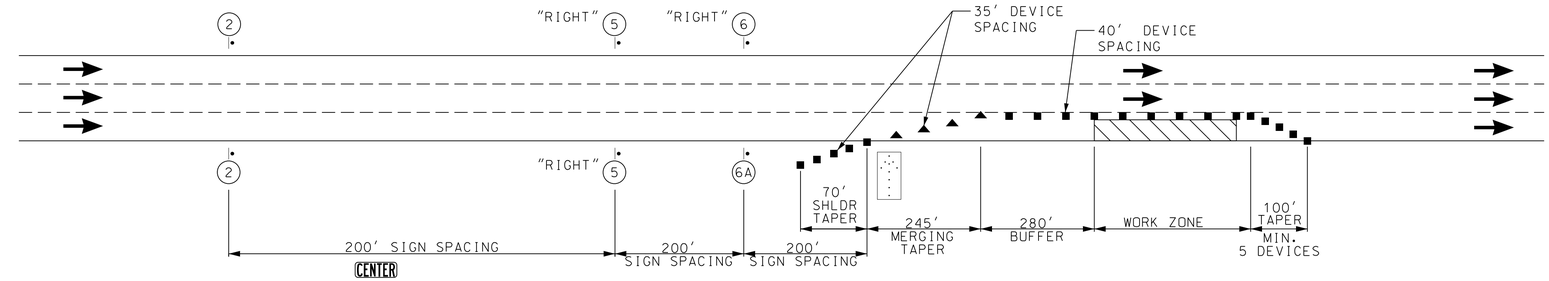
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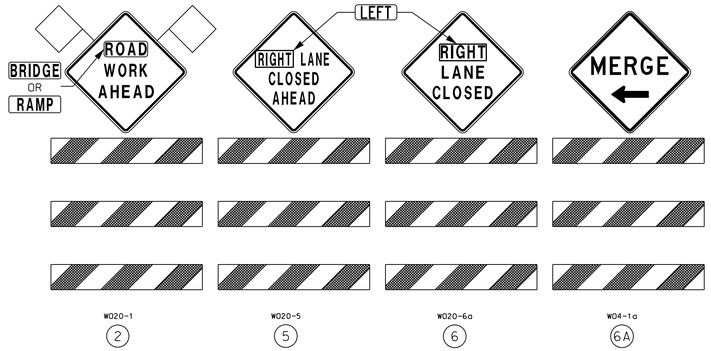
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

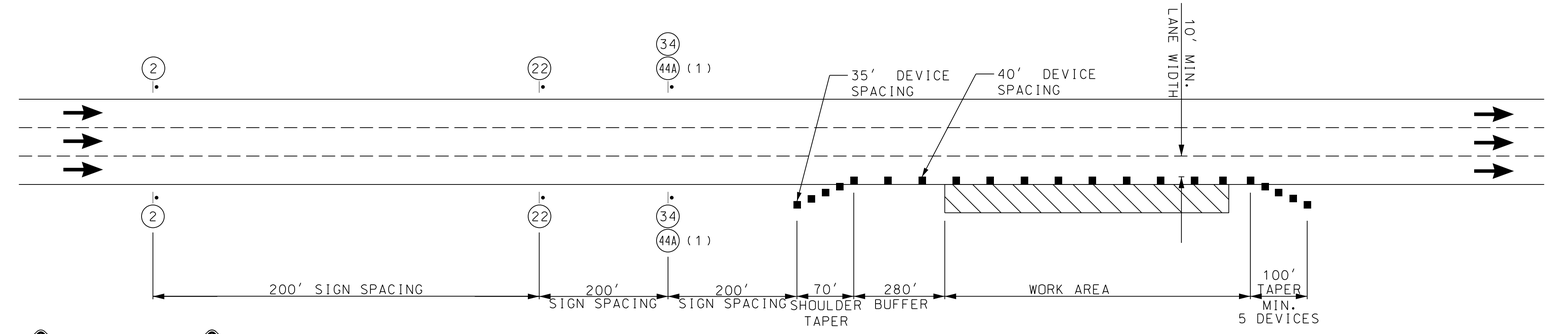
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St. Louis, MO 63103-2267
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Certificate of Authority: 000856

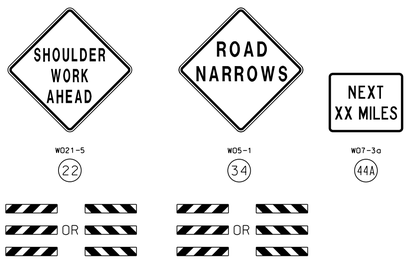
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STATIONARY LANE CLOSURE





SHOULDER WORK DETAIL WITH MINOR TRAVELWAY ENCROACHMENT

(1) NEXT XX MILE SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- BARRICADE (MOVABLE)
- FLASHING ARROW PANEL
- FLAGGER

N.T.S.

TRAFFIC CONTROL TYPICAL APPLICATIONS

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DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	TA001

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

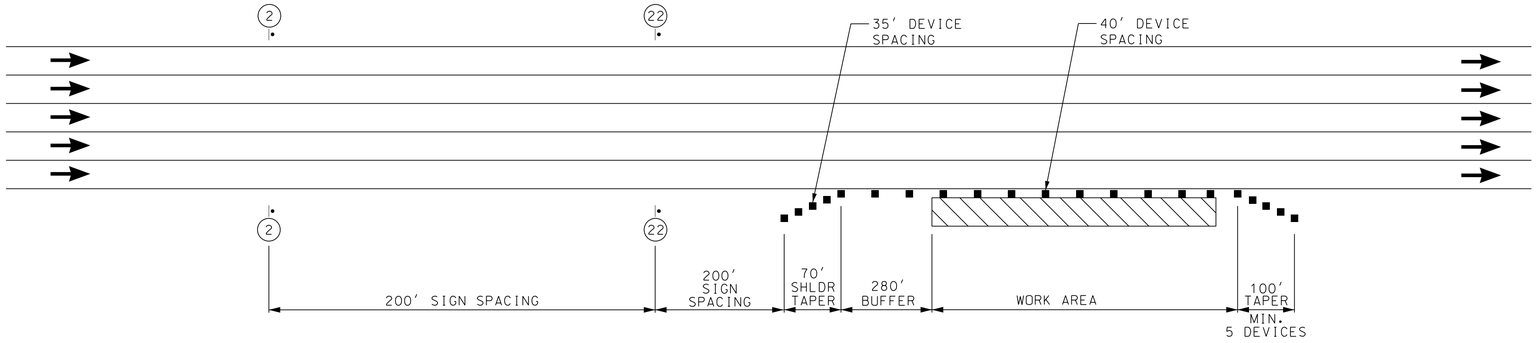
DESCRIPTION	DATE

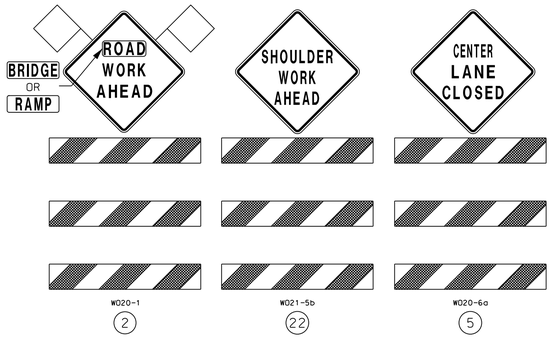
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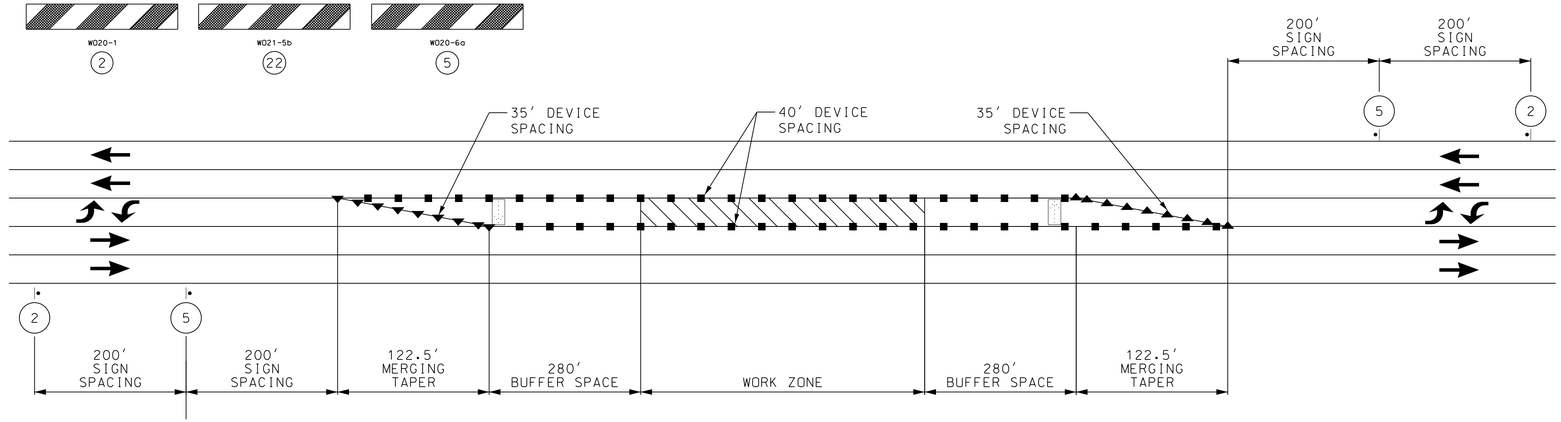
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REV.





SHOULDER WORK DETAIL WITH NO TRAVELWAY ENCROACHMENT



OPERATIONS IN TWO-WAY LEFT TURN LANE ON MULTI-LANE UNDIVIDED HIGHWAYS

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- BARRICADE (MOVABLE)
- FLASHING ARROW PANEL
- FLAGGER

N.T.S.

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NOTE:

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

TRAFFIC CONTROL
TYPICAL APPLICATIONS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	TA002

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

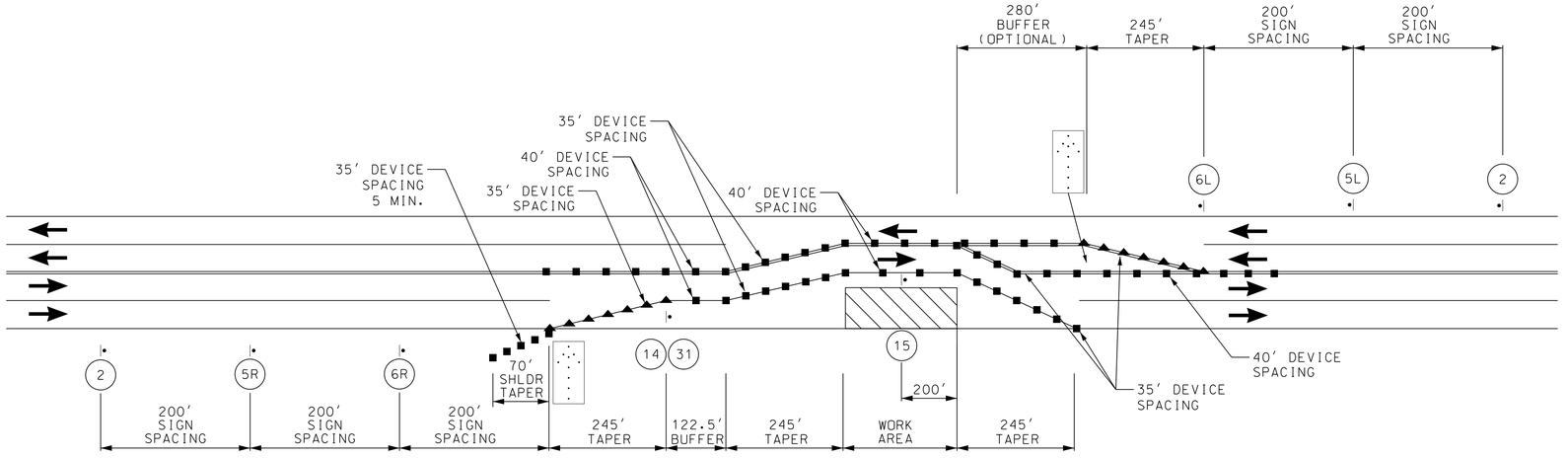
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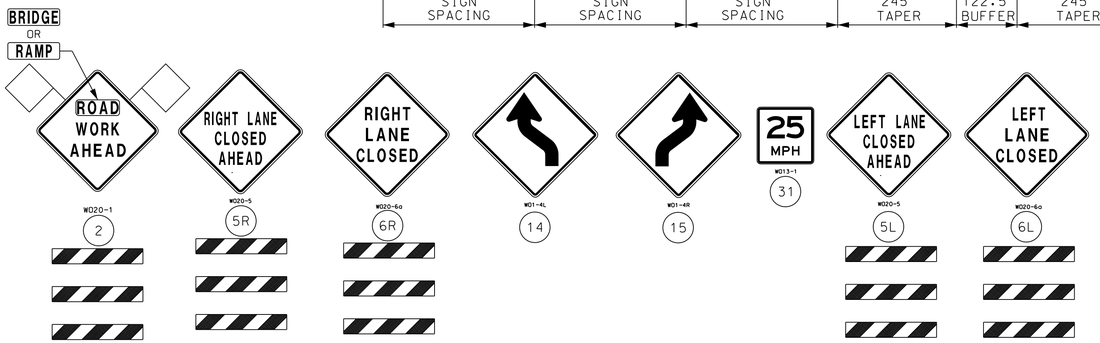
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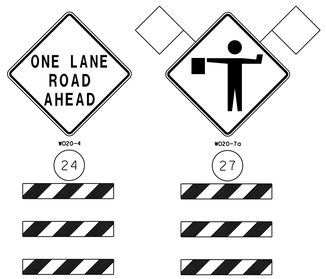
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314-425-8300
Certificate of Authority: 000856

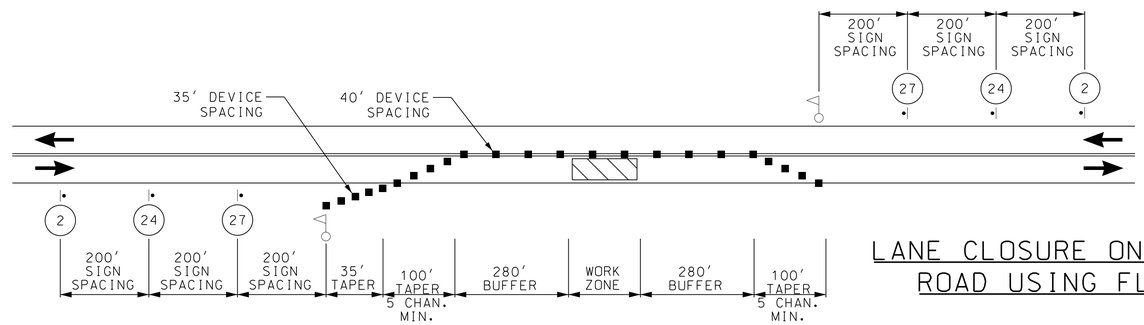
REV.





HALF ROAD CLOSURE ON A MULTI-LANE HIGHWAY





LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- BARRICADE (MOVABLE)
- FLASHING ARROW PANEL
- FLAGGER

NOTE:

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

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TRAFFIC CONTROL TYPICAL APPLICATIONS

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DATE PREPARED 2/4/2020

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100	MO
DISTRICT	SHEET NO.
SL	TA004

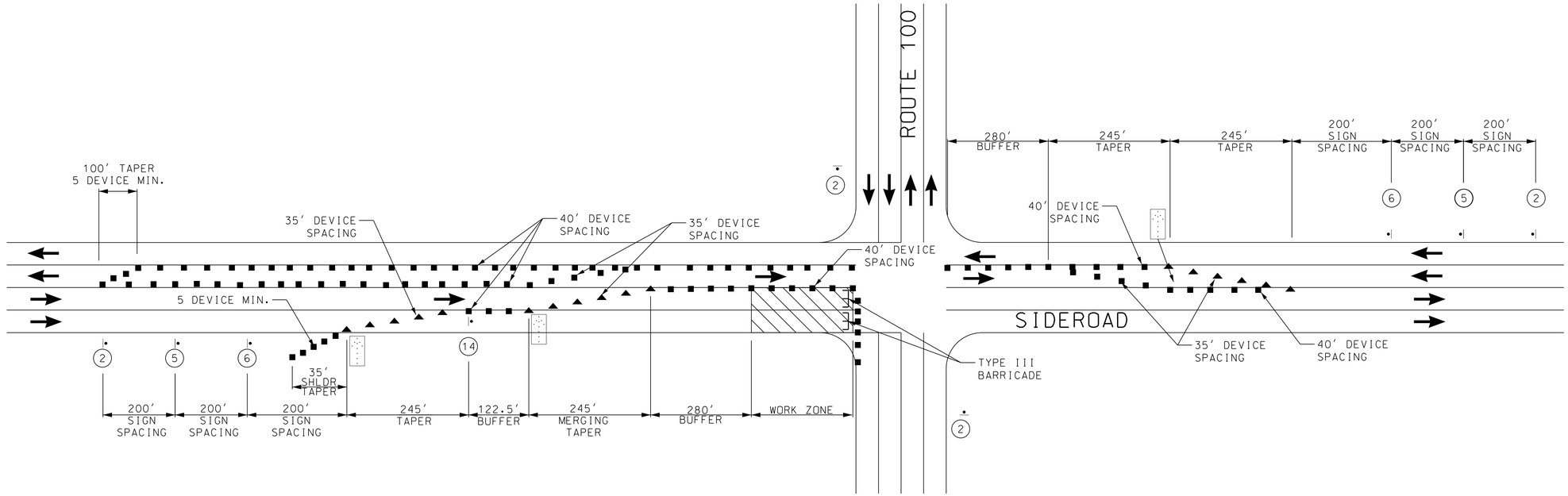
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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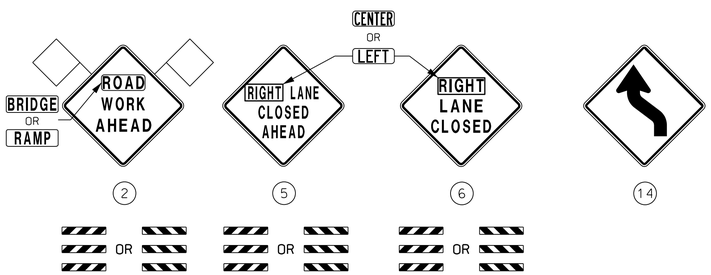
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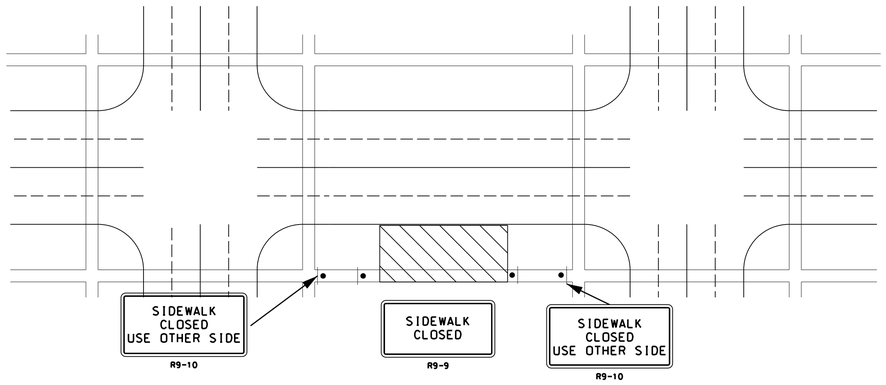
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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St. Louis, MO 63103-2267
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LANE CLOSURE AT INTERSECTION





SIDEWALK DETOUR OR DIVERSION

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- BARRICADE (MOVABLE)
- FLASHING ARROW PANEL
- FLAGGER
- WARNING LIGHT, TYPE B
- WORK AREA

N.T.S.

TRAFFIC CONTROL
TYPICAL APPLICATIONS

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DATE PREPARED: 2/4/2020
ROUTE: 100
STATE: MO
DISTRICT: SL
SHEET NO.: TA006
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

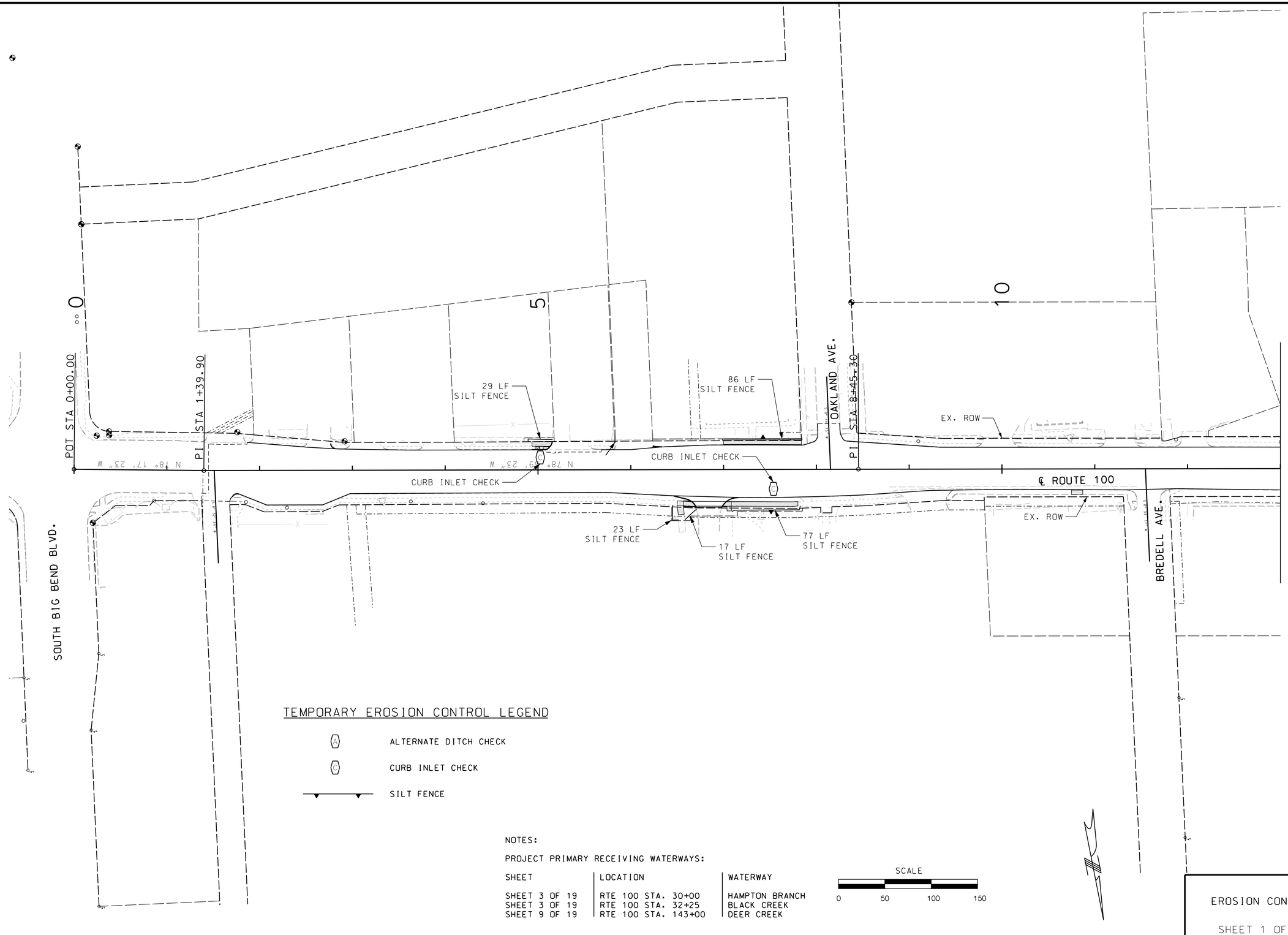
DESCRIPTION | DATE

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REV.



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

NOTES:

PROJECT PRIMARY RECEIVING WATERWAYS:

SHEET	LOCATION	WATERWAY
SHEET 3 OF 19	RTE 100 STA. 30+00	HAMPTON BRANCH
SHEET 3 OF 19	RTE 100 STA. 32+25	BLACK CREEK
SHEET 9 OF 19	RTE 100 STA. 143+00	DEER CREEK

SCALE
0 50 100 150

EROSION CONTROL

SHEET 1 OF 19

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC001

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

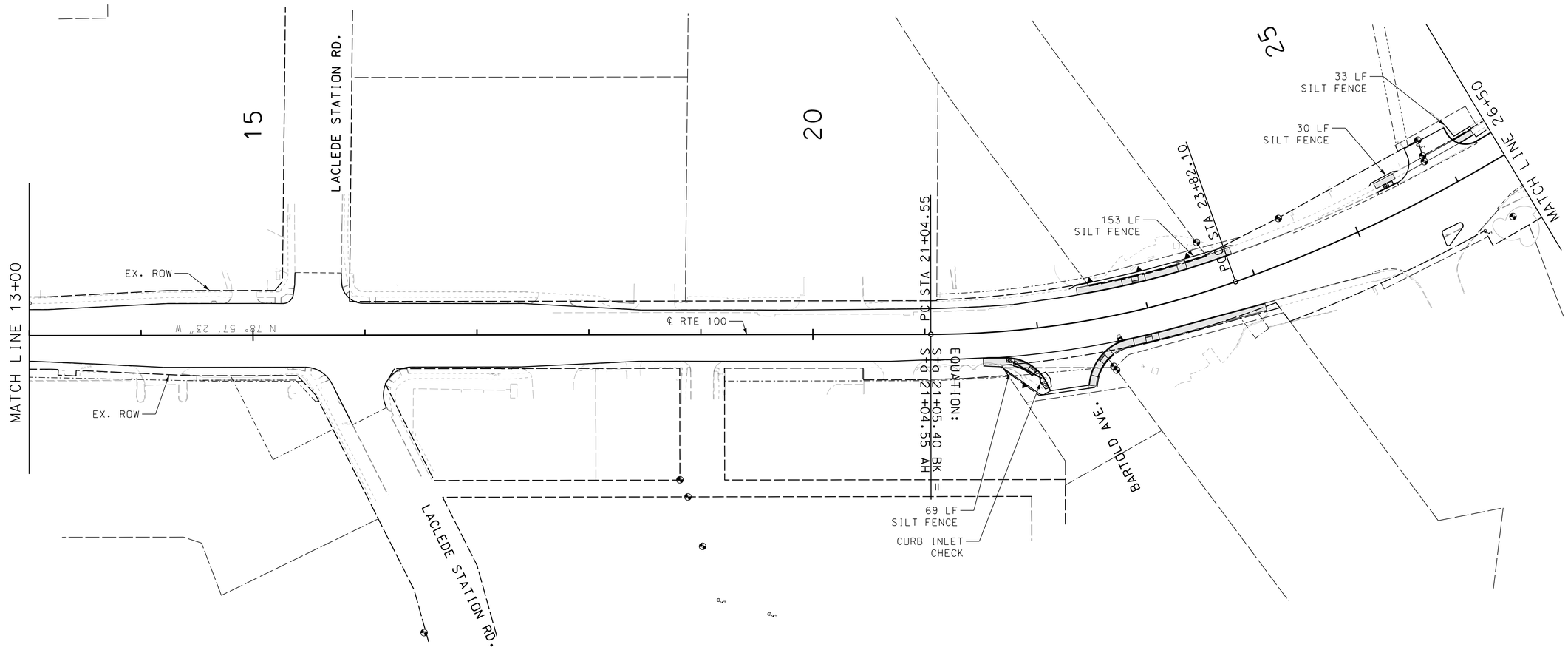
BRIDGE NO.

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DATE	DESCRIPTION	REV.

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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 2 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC002

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

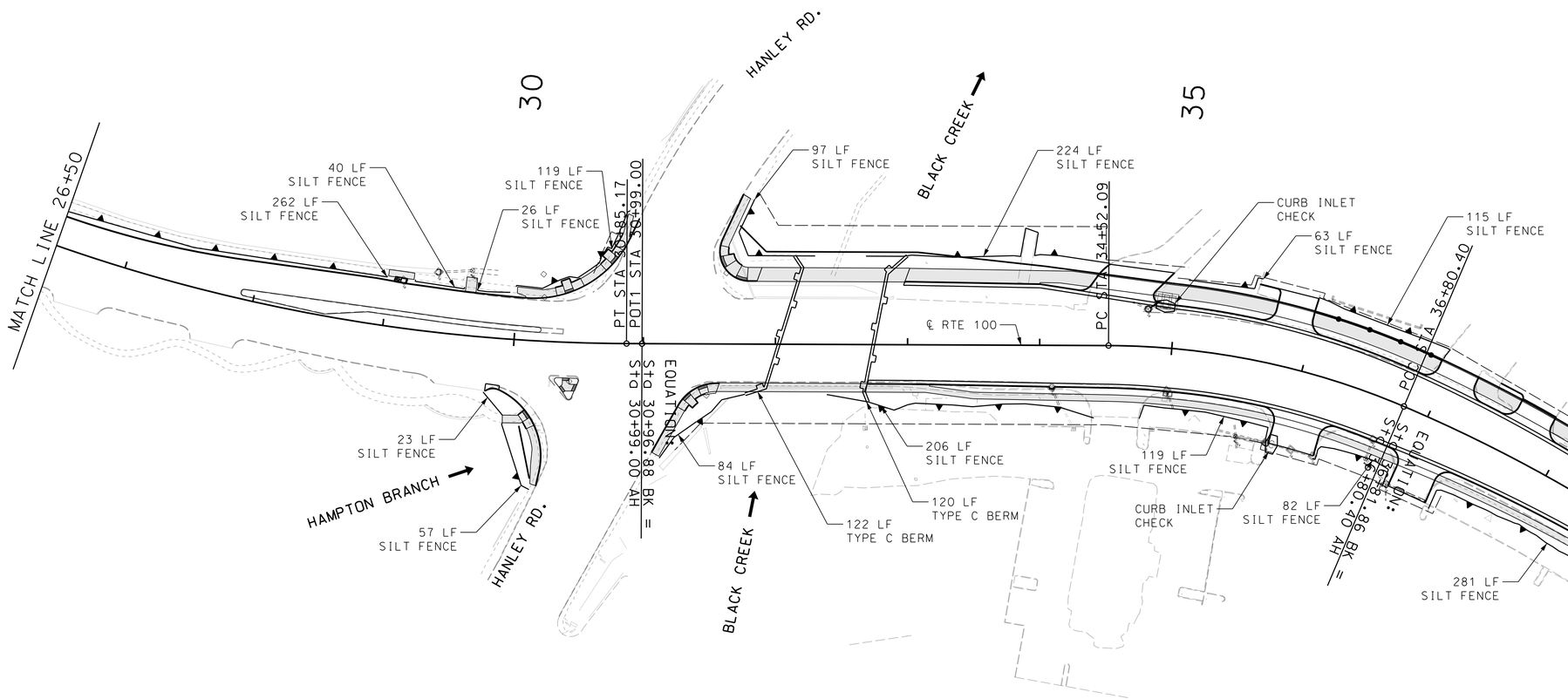
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REV.



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 3 OF 19

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC003

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

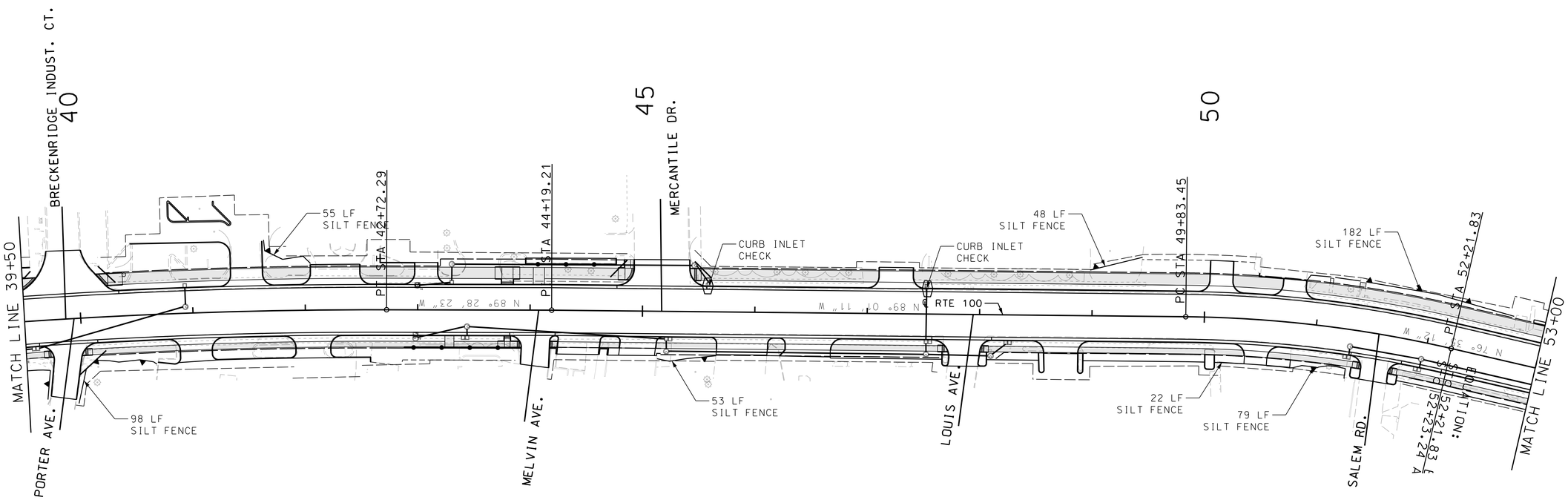
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DATE	DESCRIPTION

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TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 4 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC004

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

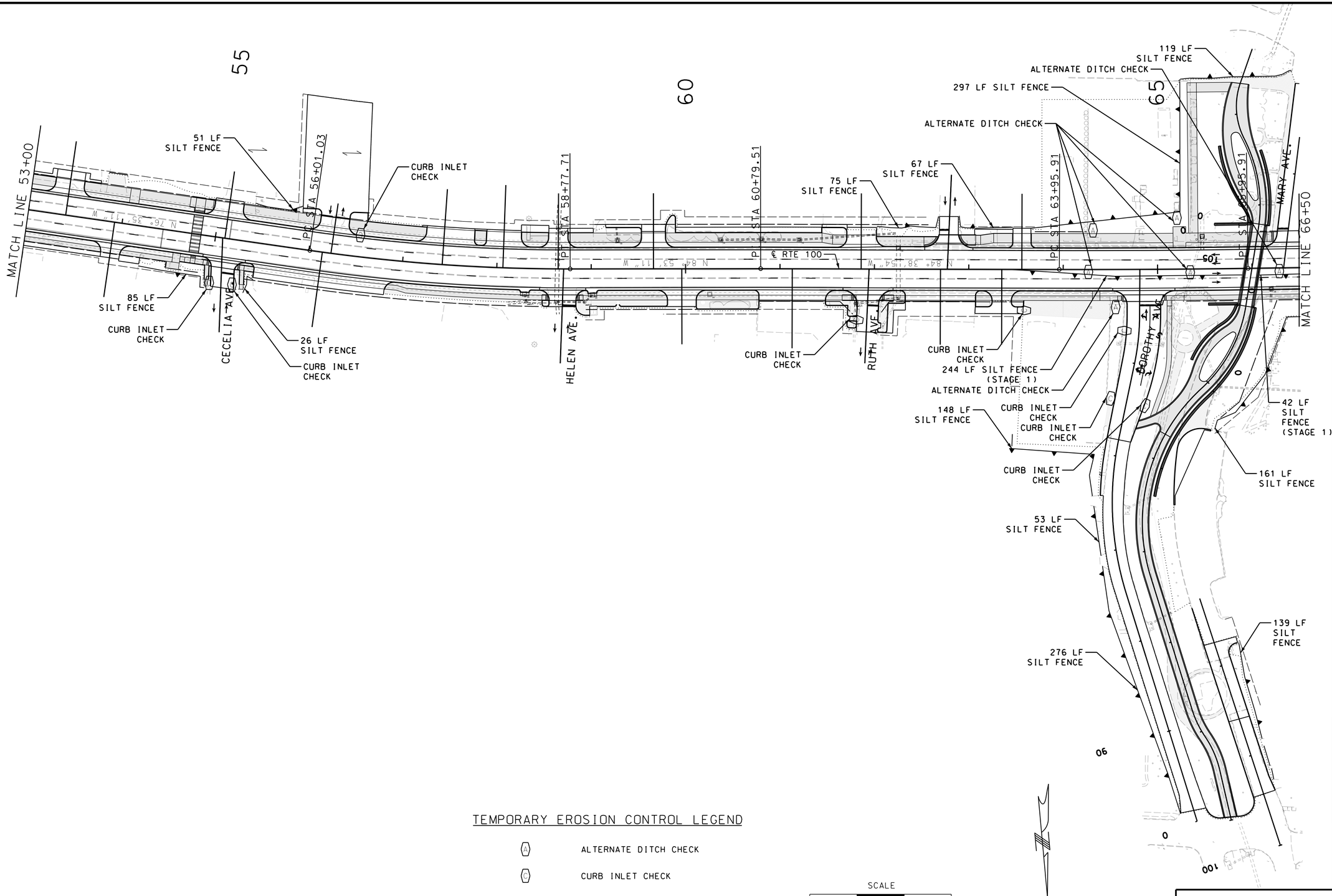
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Certificate of Authority: 000856

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TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK

(C) CURB INLET CHECK

SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 5 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC005

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

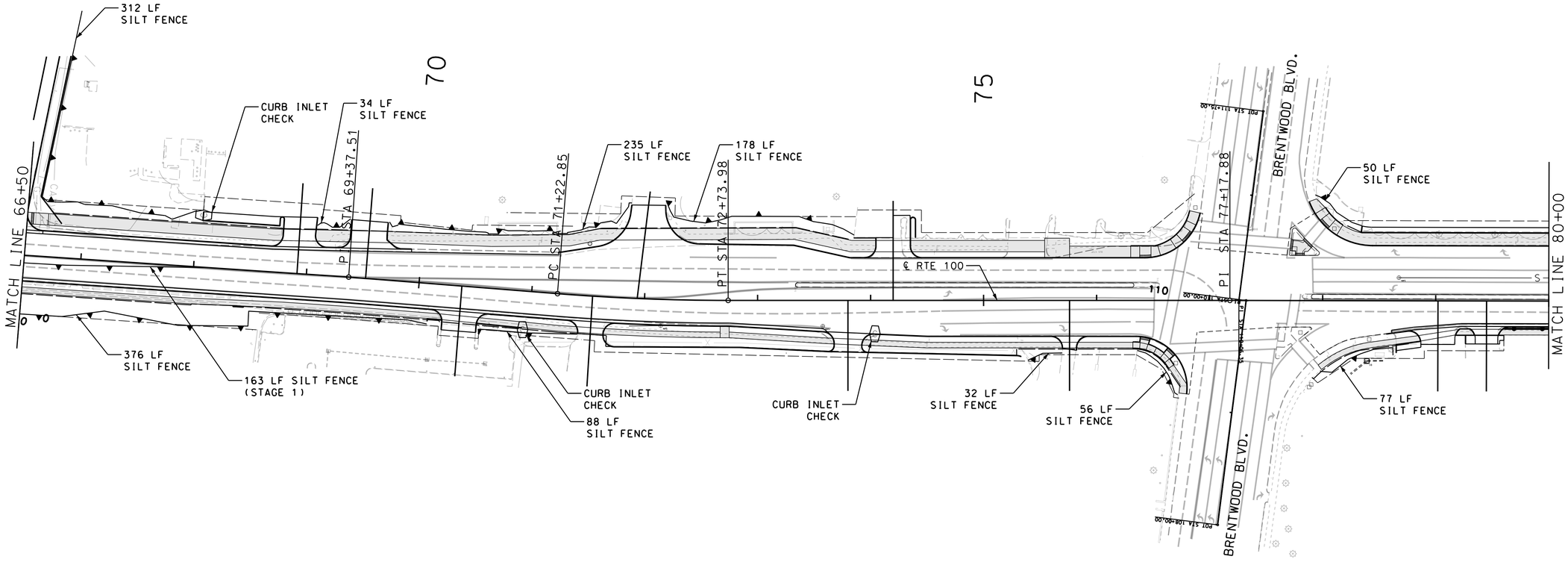
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DESCRIPTION | DATE

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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL

SHEET 6 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC006

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

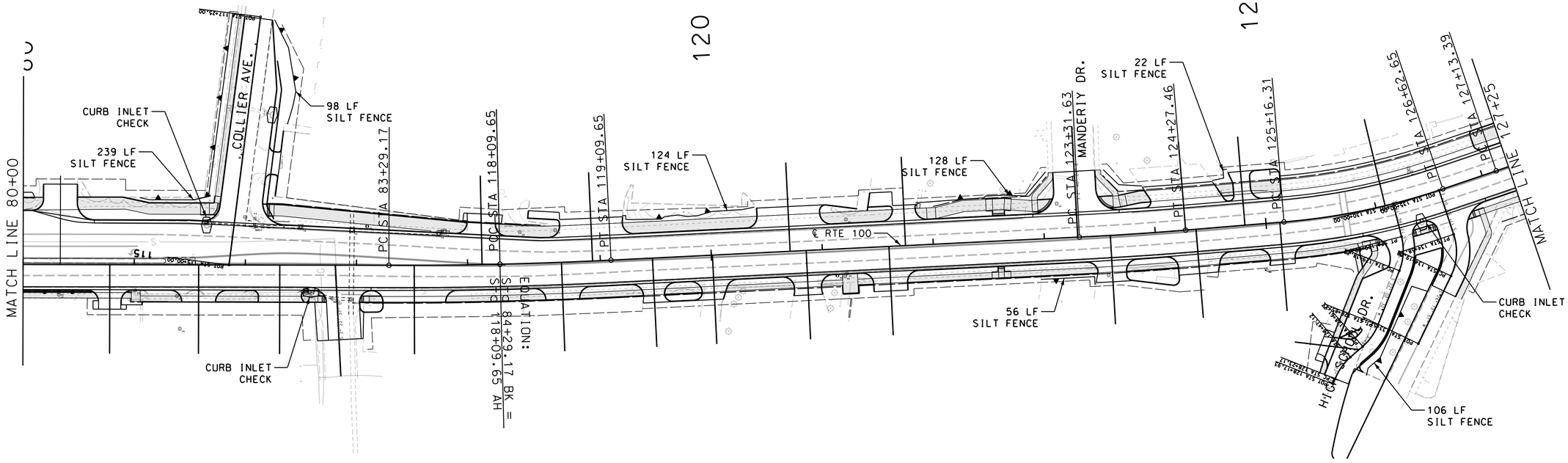
DATE

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JEFFERSON CITY, MO 65102
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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 7 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC007

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

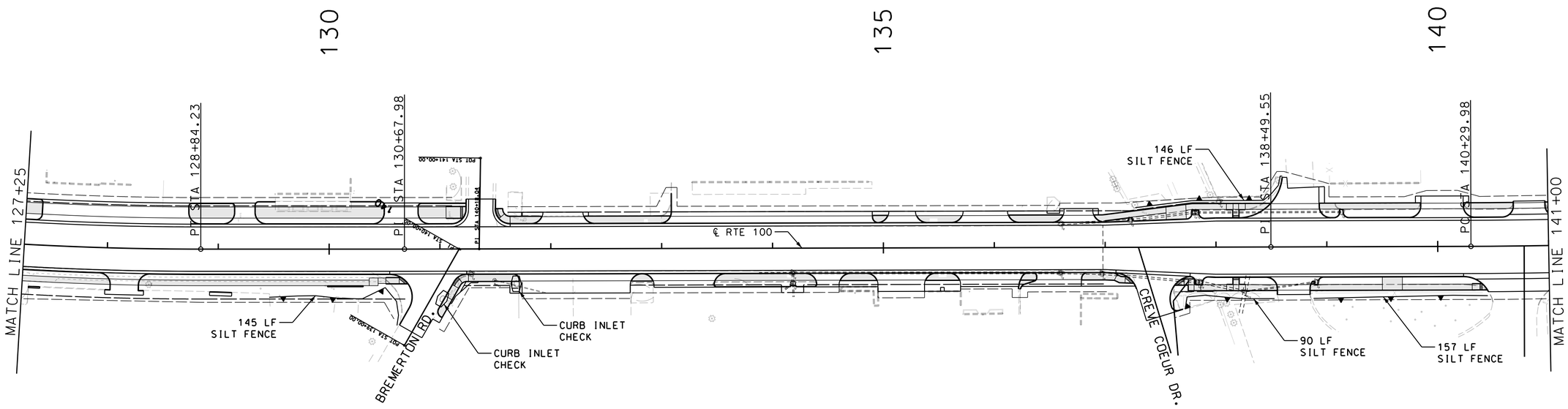
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 8 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC008

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

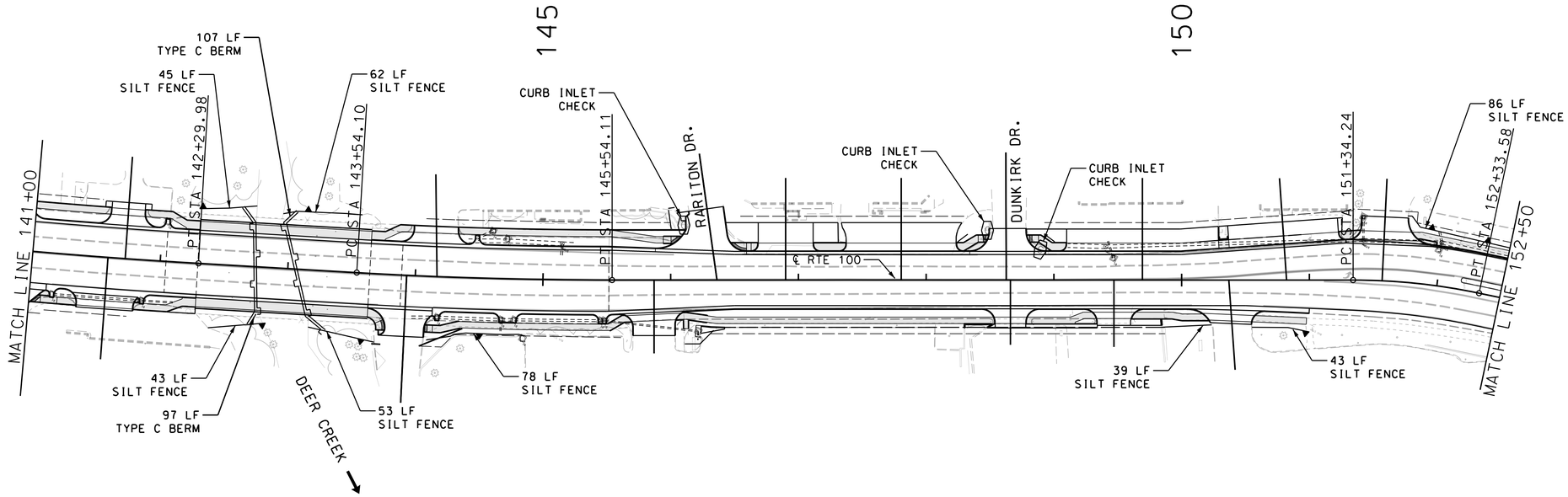
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 9 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC009

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

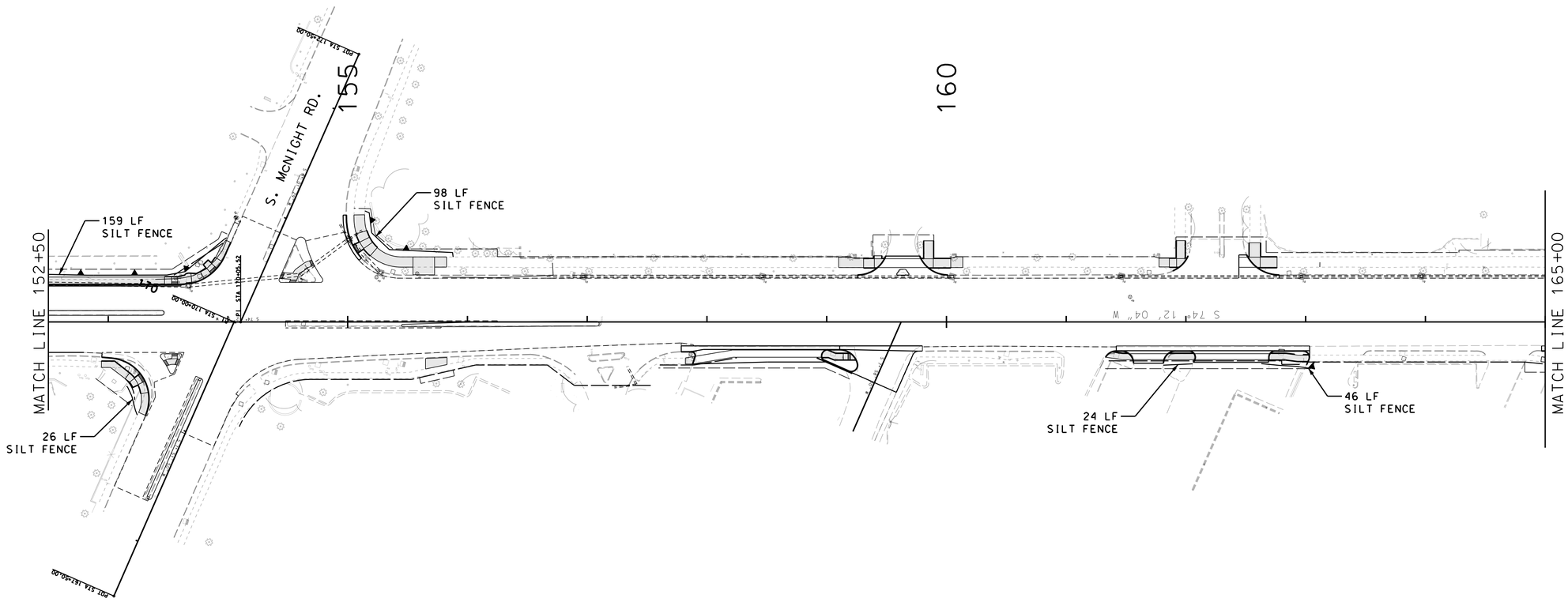
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
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St. Louis, MO 63103-2267
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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 10 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC010

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

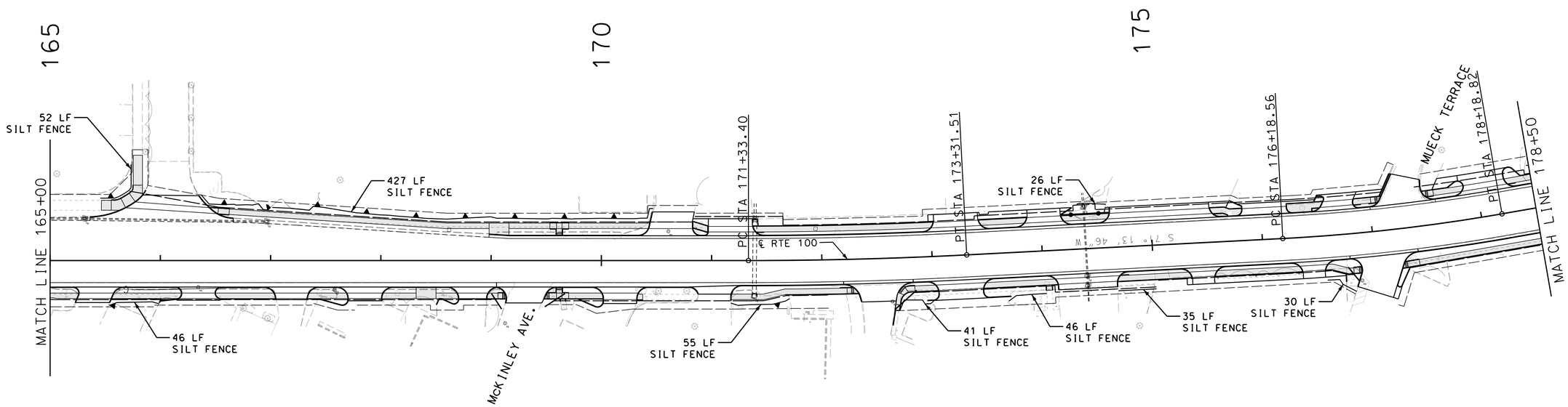
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL

SHEET 11 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC011

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

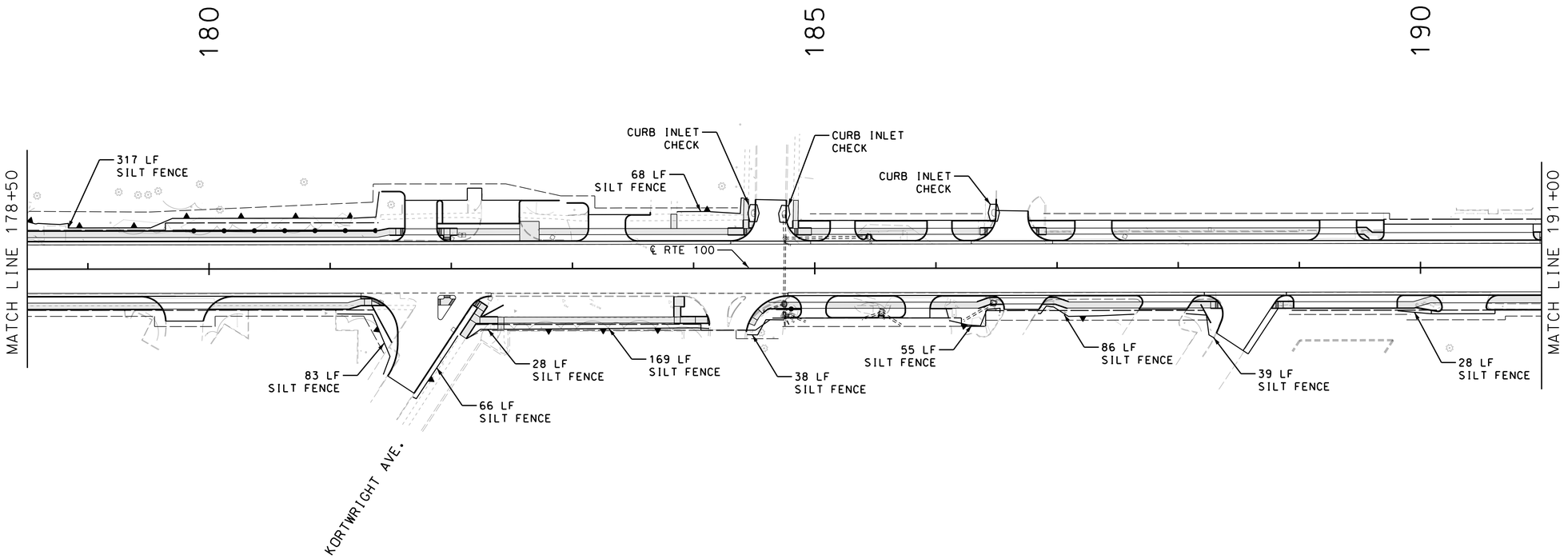
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 12 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC012

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

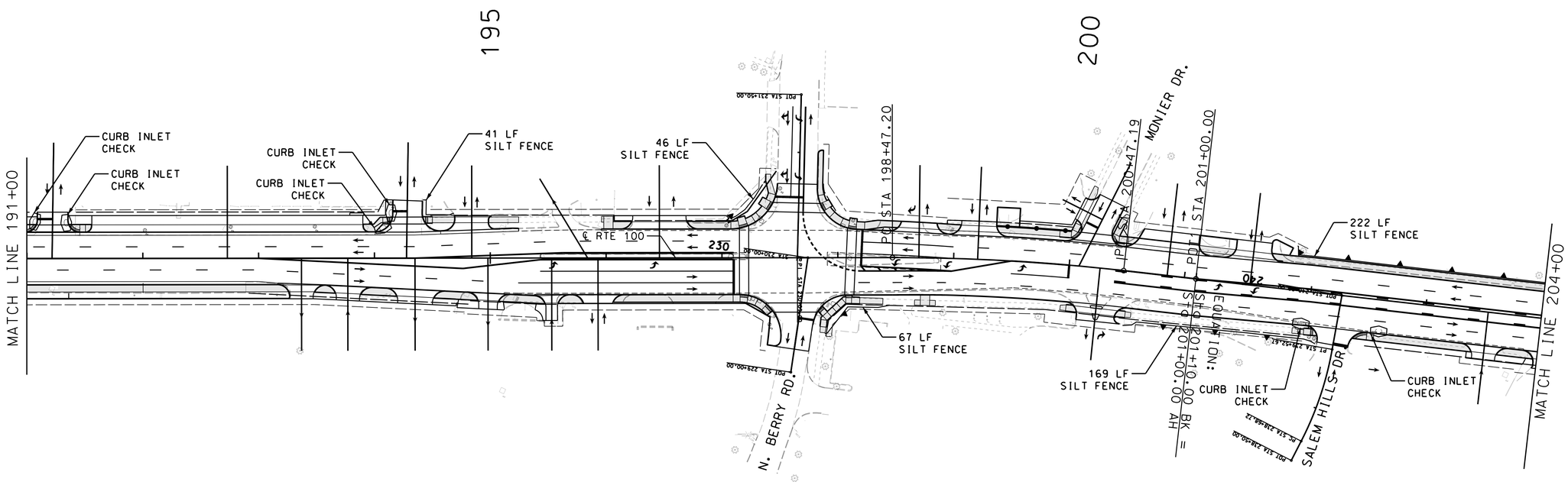
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 13 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	EC013

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

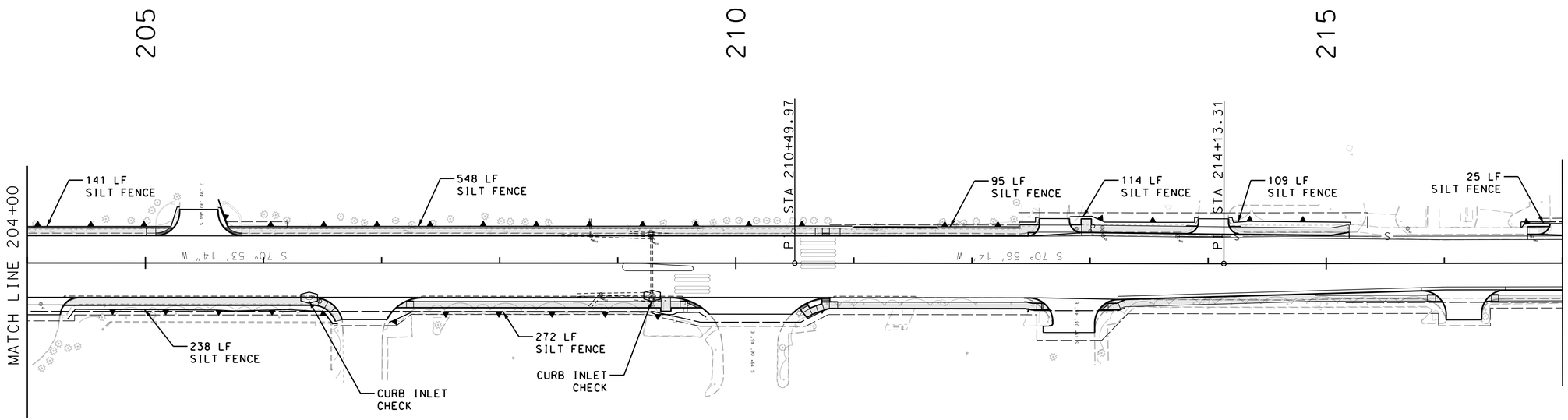
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 14 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC014

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

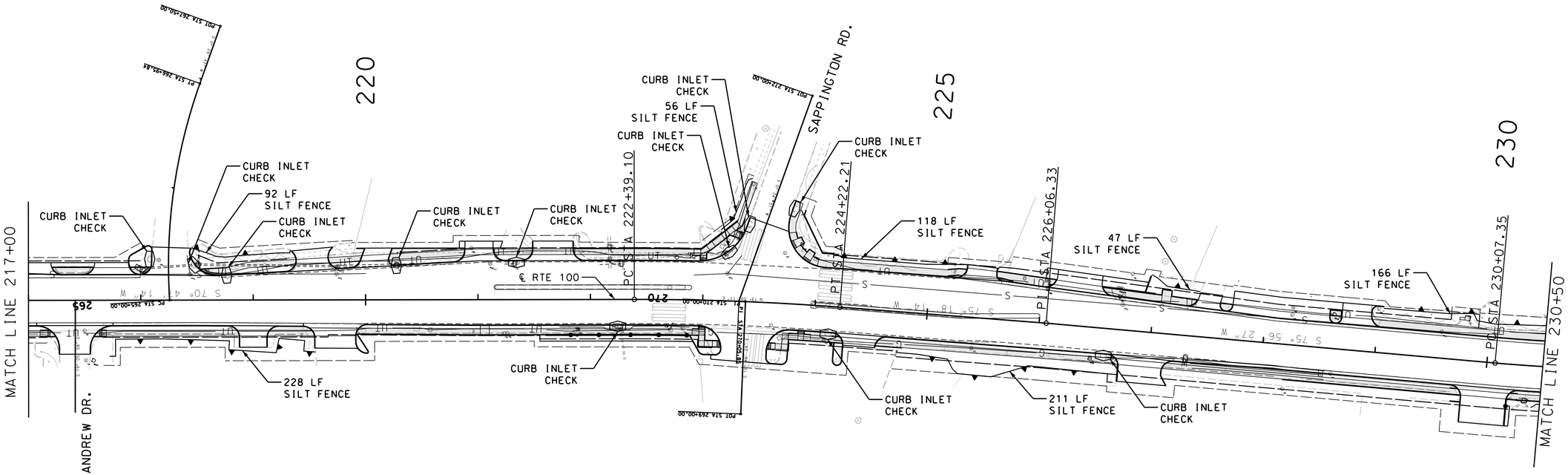
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 15 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC015

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

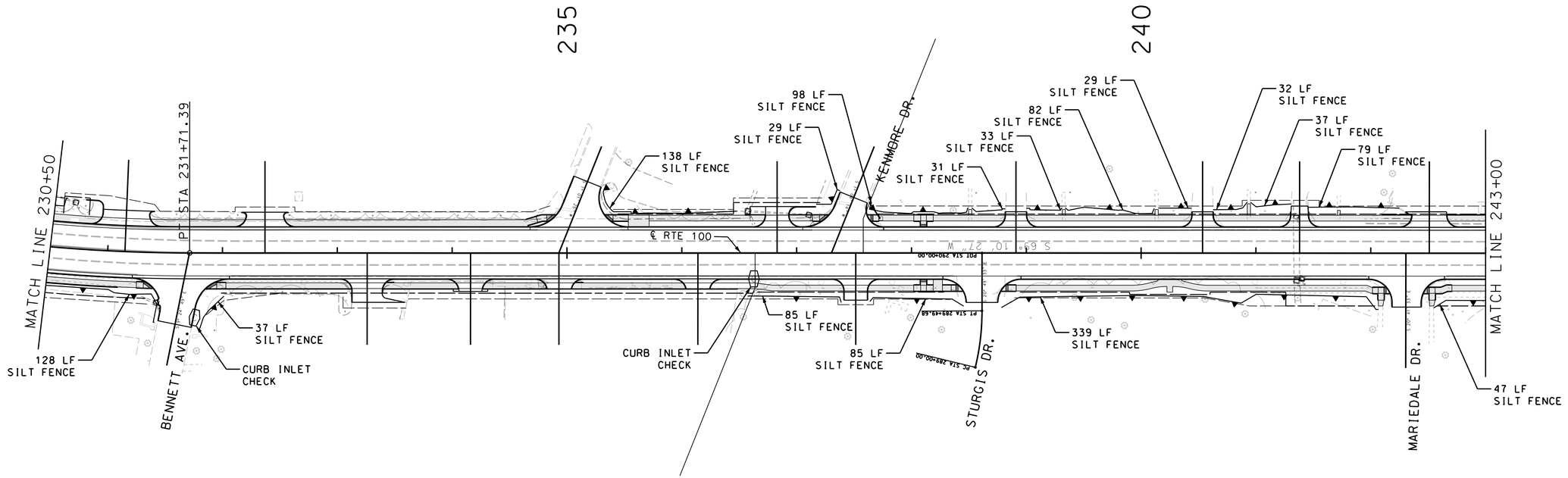
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 16 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC016

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

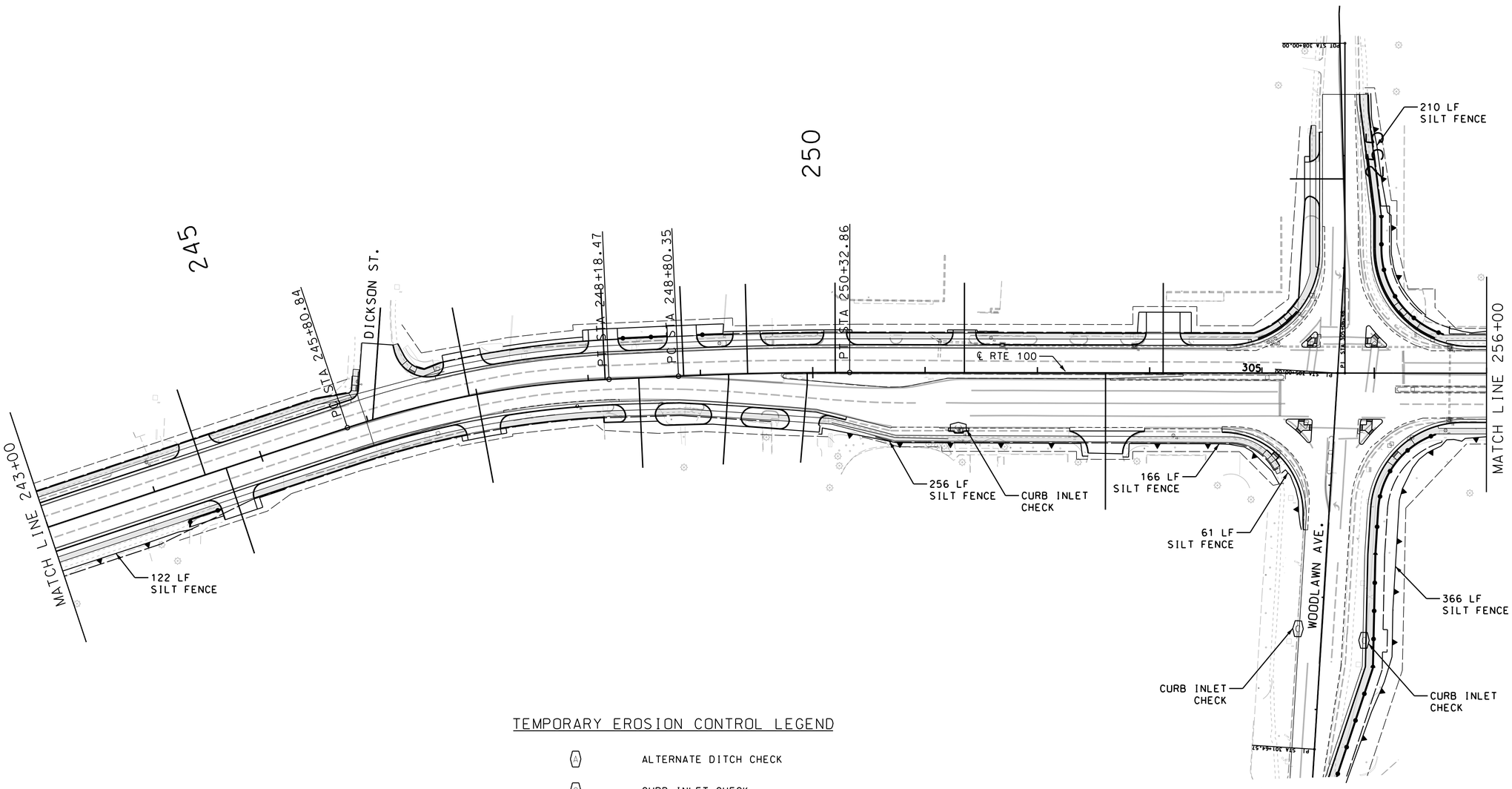
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 17 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC017

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

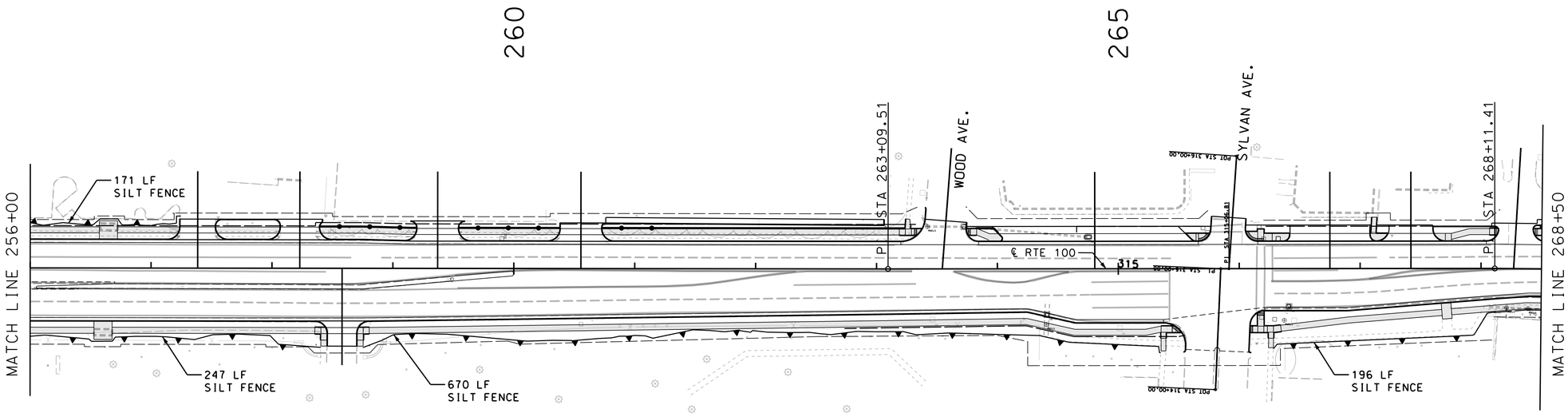
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

TRAFFIC CONTROL

STAGE 1
SHEET 18 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC018

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

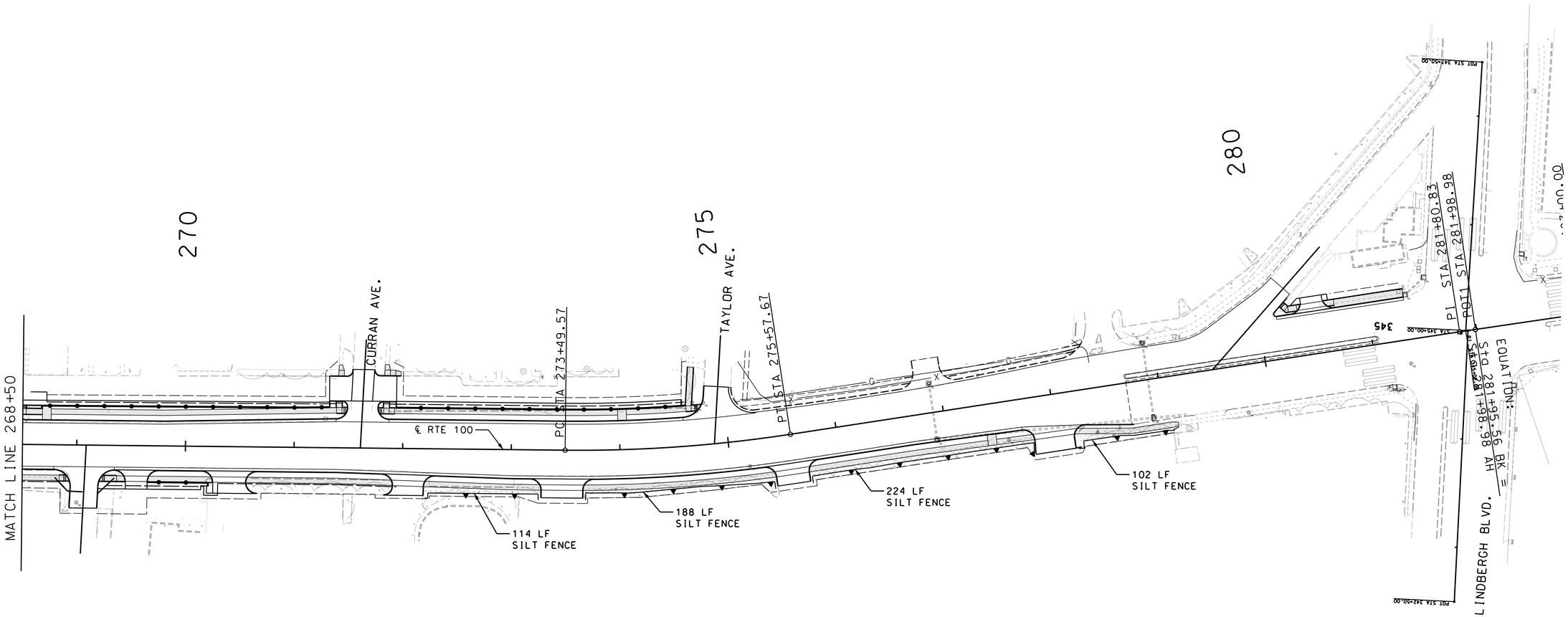
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.

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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL

SHEET 19 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	EC019

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

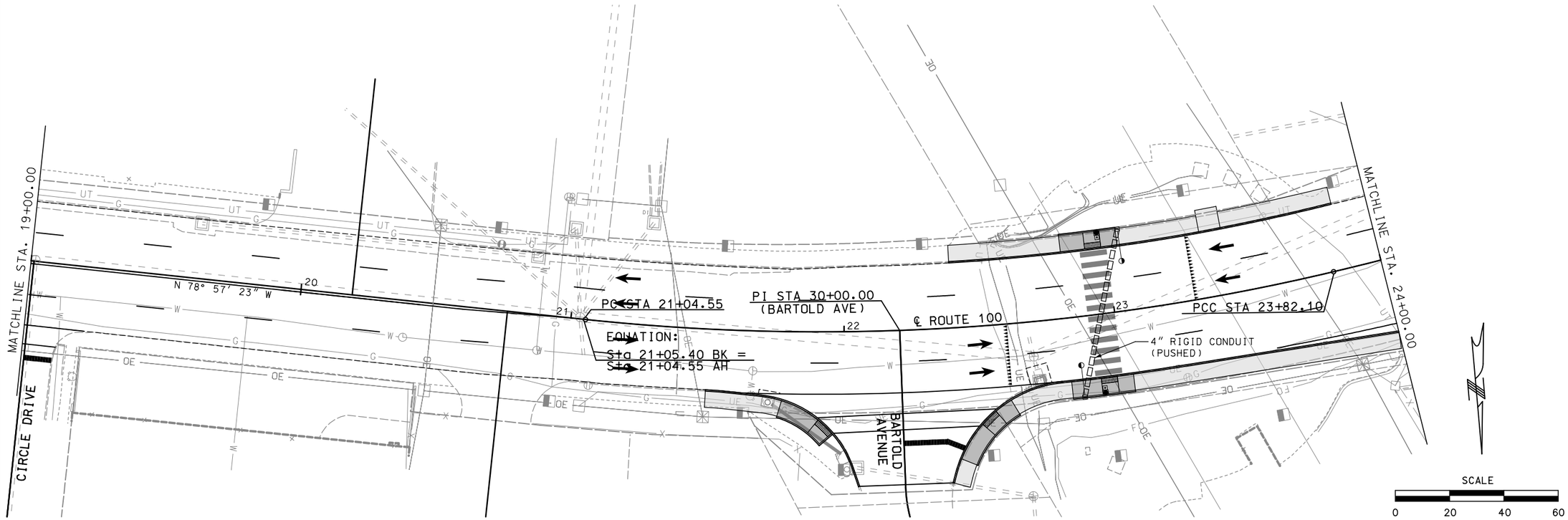
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

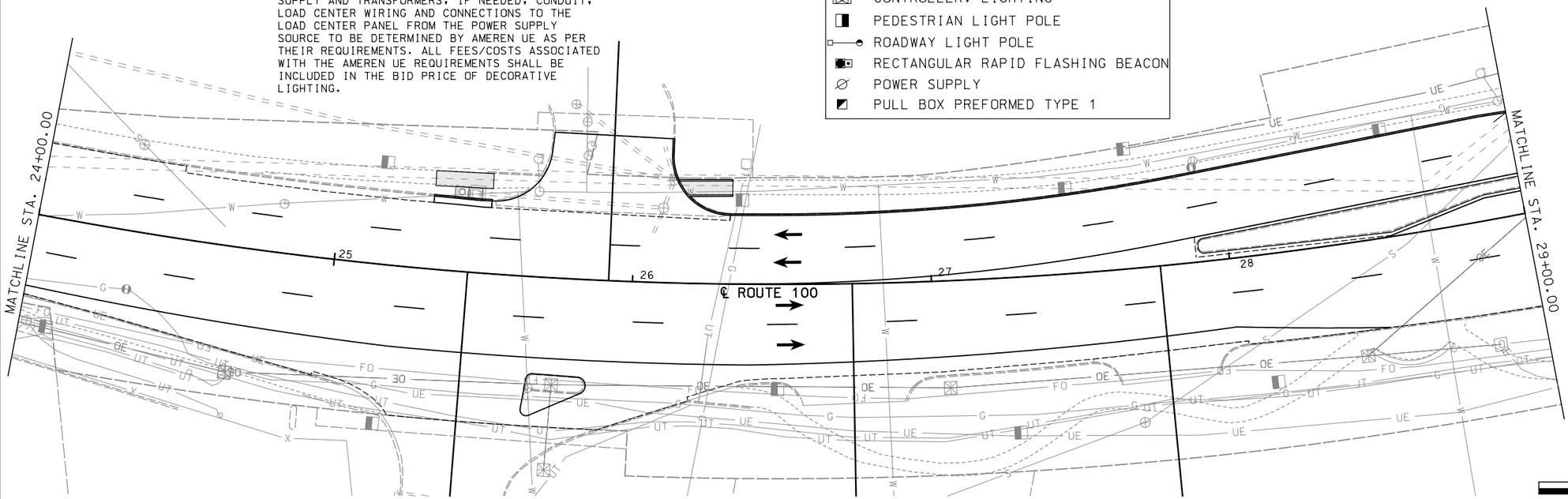
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



✳ THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS, IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.

LIGHTING LEGEND
CONTROLLER, LIGHTING
PEDESTRIAN LIGHT POLE
ROADWAY LIGHT POLE
RECTANGULAR RAPID FLASHING BEACON
POWER SUPPLY
PULL BOX PREFORMED TYPE 1



DATE PREPARED
3/31/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	158

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

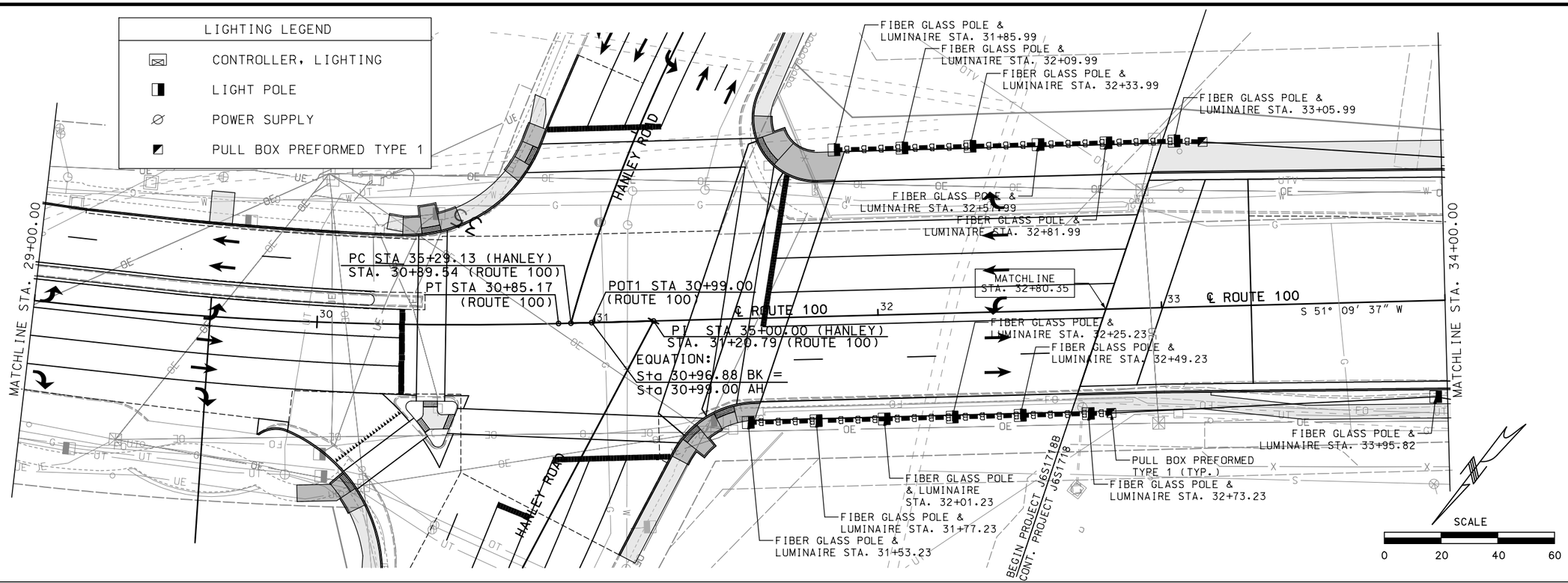
TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

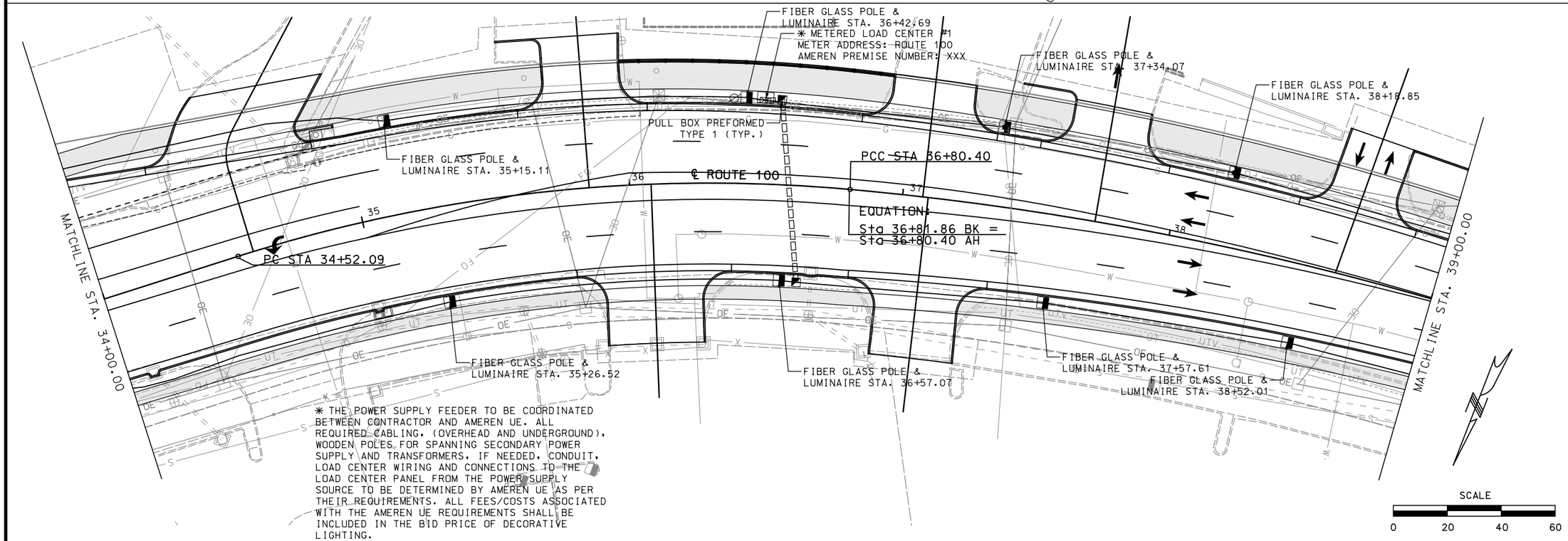
SPECIAL SHEET
.
LIGHTING
.
ROUTE 100
.
SHEET 1 OF 14

REV.

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LIGHTING LEGEND	
⊠	CONTROLLER, LIGHTING
◨	LIGHT POLE
⌀	POWER SUPPLY
◩	PULL BOX PREFORMED TYPE 1





✳ THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS, IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.

DATE PREPARED 2/24/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 159
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

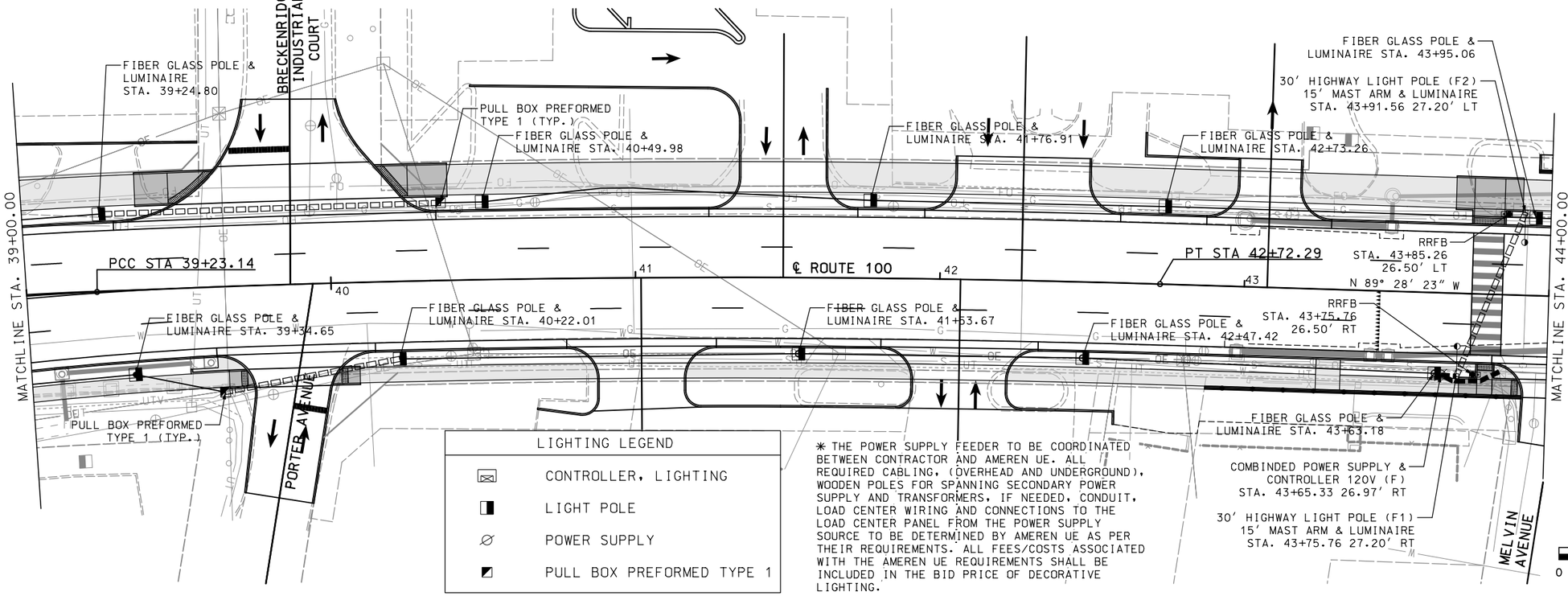
DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 4 OF 25

REV. .



DATE PREPARED
2/24/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	160

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

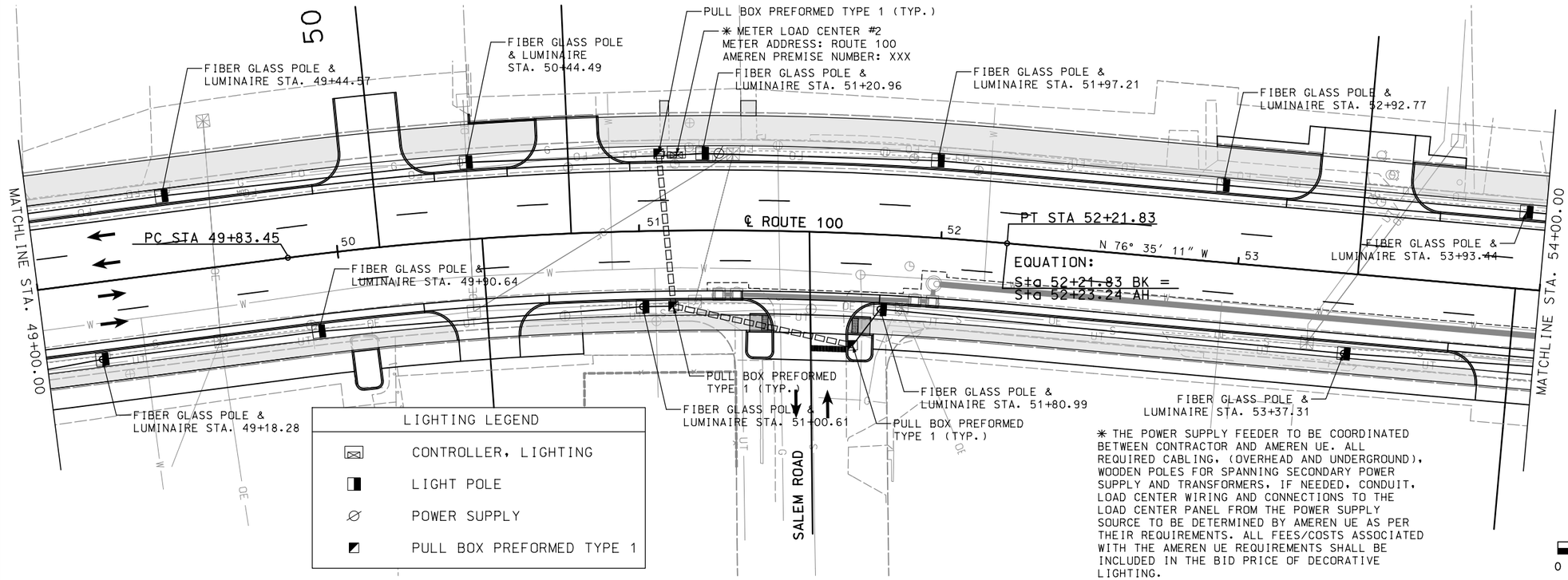
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

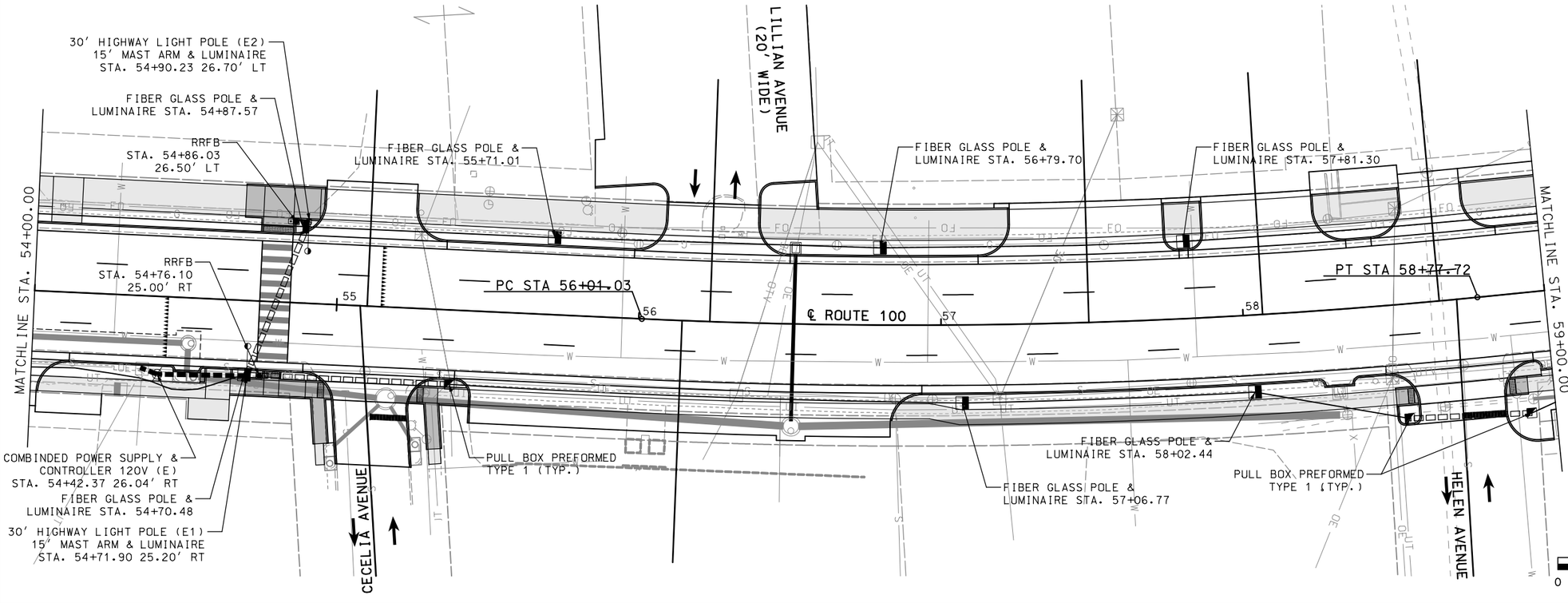
TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 5 OF 25

REV.

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DATE PREPARED
2/24/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	161

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

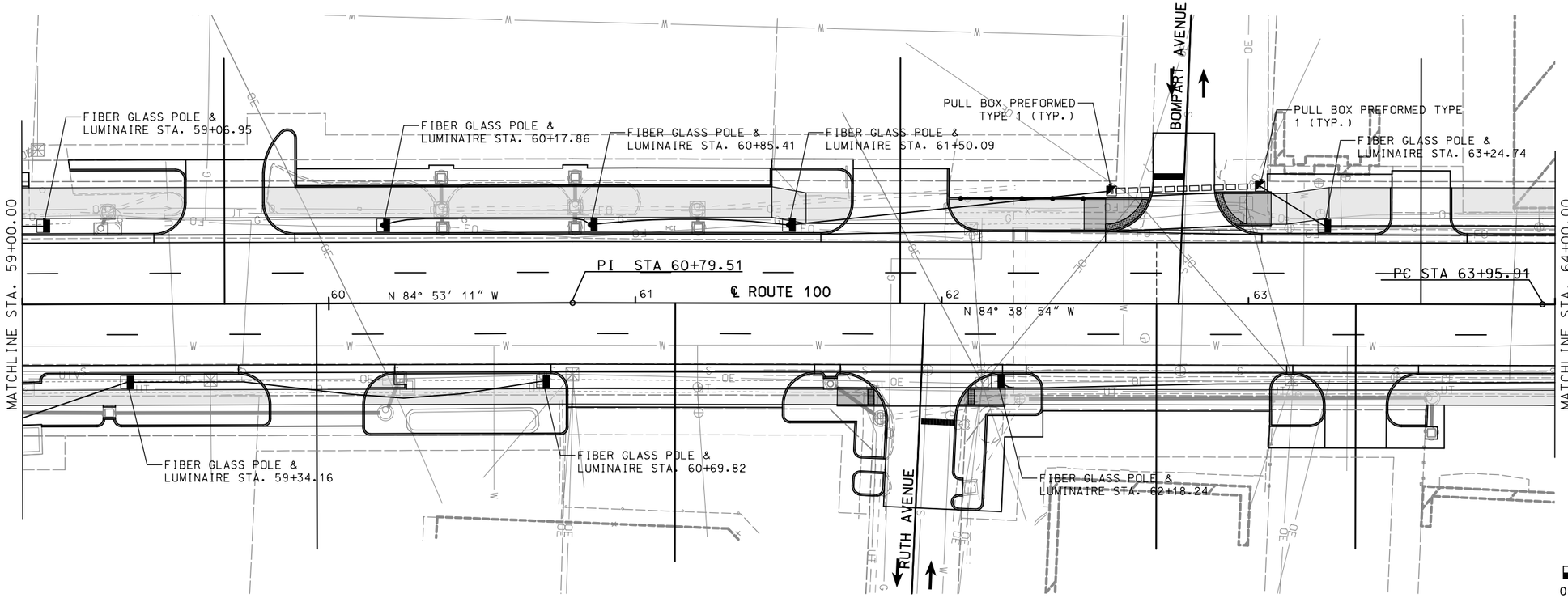
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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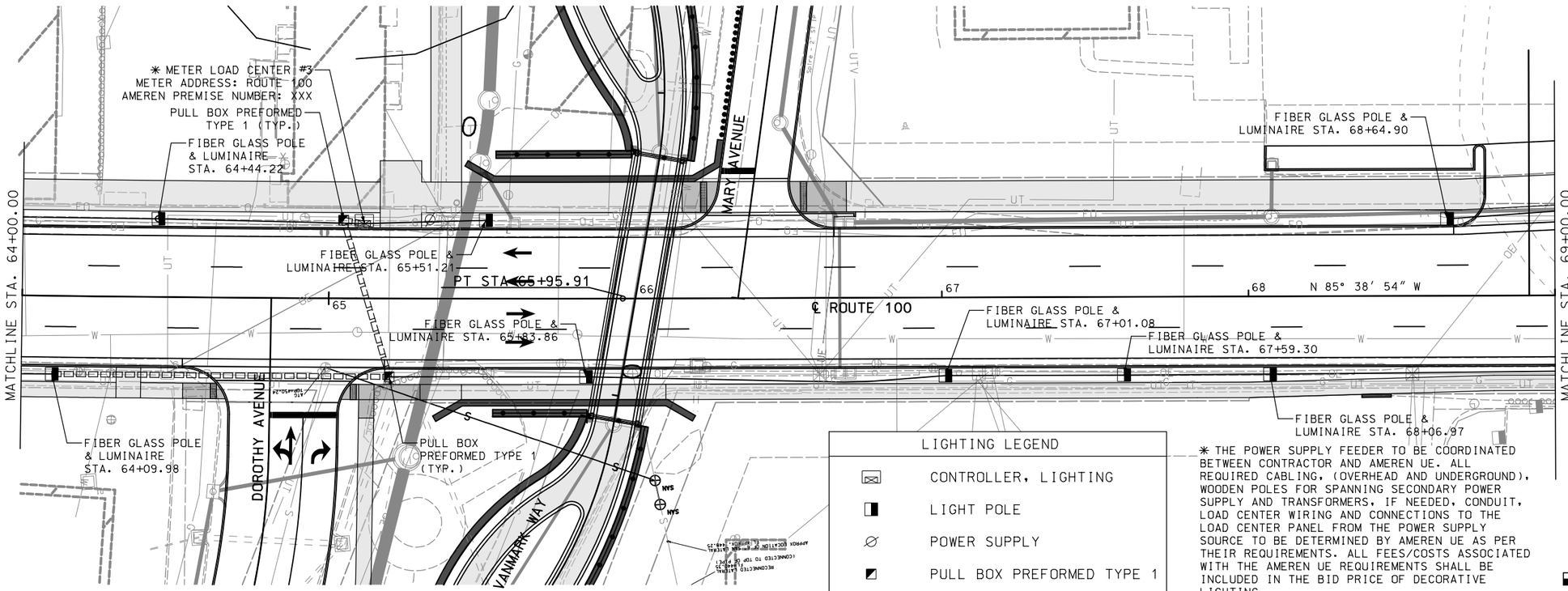
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SPECIAL SHEET
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CONSTRUCTION DETAILS
.
ROUTE 100
.
SHEET 6 OF 25

REV.

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DATE PREPARED 2/24/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 162
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 7 OF 25

REV.

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LIGHTING LEGEND

- CONTROLLER, LIGHTING
- LIGHT POLE
- POWER SUPPLY
- PULL BOX PREFORMED TYPE 1

MATCHLINE STA. 69+00.00

PI STA 69+37.51

N 84° 58′ 03″ W

PC STA 71+22.85

℄ ROUTE 100

PT STA 72+73.98

MATCHLINE STA. 74+00.00

FIBER GLASS POLE & LUMINAIRE STA. 69+09.02

FIBER GLASS POLE & LUMINAIRE STA. 69+95.28

FIBER GLASS POLE & LUMINAIRE STA. 71+15.45

FIBER GLASS POLE & LUMINAIRE STA. 71+54.68

FIBER GLASS POLE & LUMINAIRE STA. 71+93.99

FIBER GLASS POLE & LUMINAIRE STA. 72+64.77

FIBER GLASS POLE & LUMINAIRE STA. 72+86.18

FIBER GLASS POLE & LUMINAIRE STA. 73+46.91

FIBER GLASS POLE & LUMINAIRE STA. 73+81.83

SCALE 0 20 40 60

MATCHLINE STA. 74+00.00

N 89° 30′ 03″ W

℄ ROUTE 100

FIBER GLASS POLE & LUMINAIRE STA. 74+31.60

FIBER GLASS POLE & LUMINAIRE STA. 74+62.21

FIBER GLASS POLE & LUMINAIRE STA. 74+89.42

FIBER GLASS POLE & LUMINAIRE STA. 75+42.70

FIBER GLASS POLE & LUMINAIRE STA. 76+01.97

PULL BOX PREFORMED TYPE 1 (TYP.)

PULL BOX PREFORMED TYPE 1 (TYP.)

PULL BOX PREFORMED TYPE 1 (TYP.)

METER LOAD CENTER #3
METER ADDRESS: ROUTE 100
AMEREN PREMISE NUMBER: XXX

BRENTWOOD BOULEVARD

PI STA 77+17.88

PI STA 110+06.35 (BRENTWOOD BLVD)
= STA 77+25.91 (ROUTE 100)

PI STA 110+00.00 (BRENTWOOD BLVD)
= STA 77+32.27 (ROUTE 100)

FIBER GLASS POLE & LUMINAIRE STA. 78+74.33

MATCHLINE STA. 79+00.00

SCALE 0 20 40 60

* THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS, IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.

DATE PREPARED 2/24/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	163

COUNTY: ST. LOUIS

JOB NO.: J6S1718B

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
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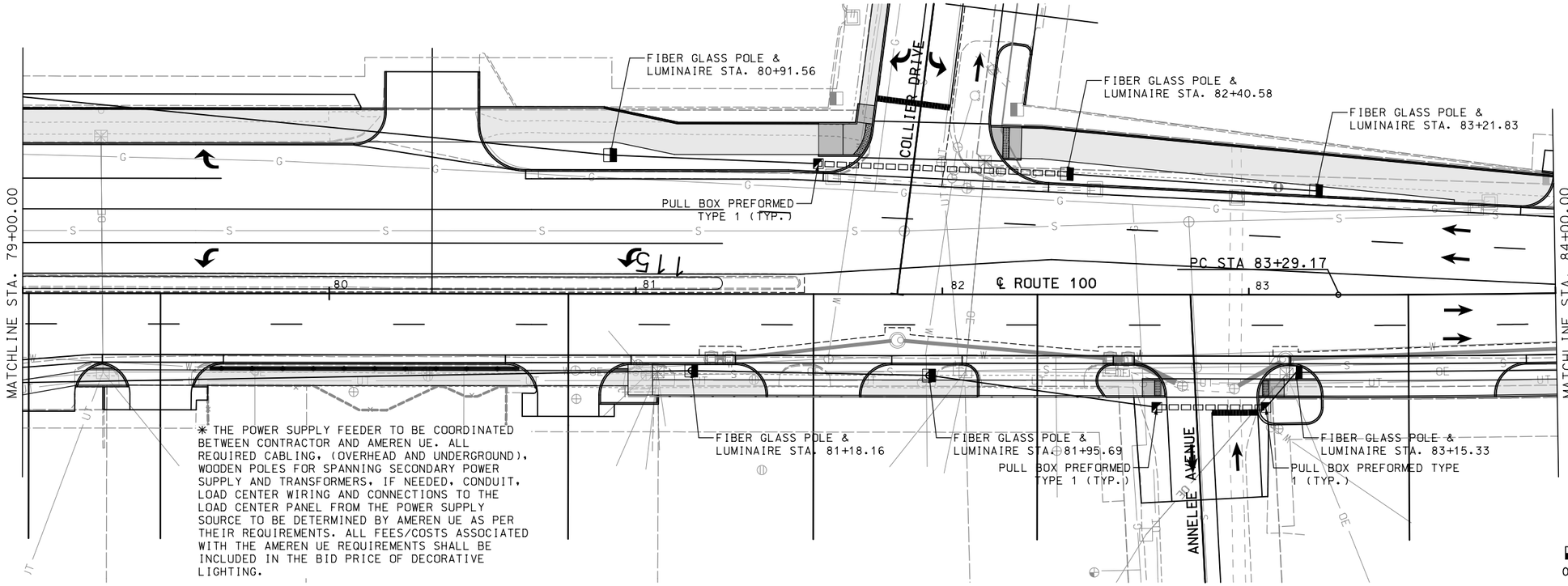
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

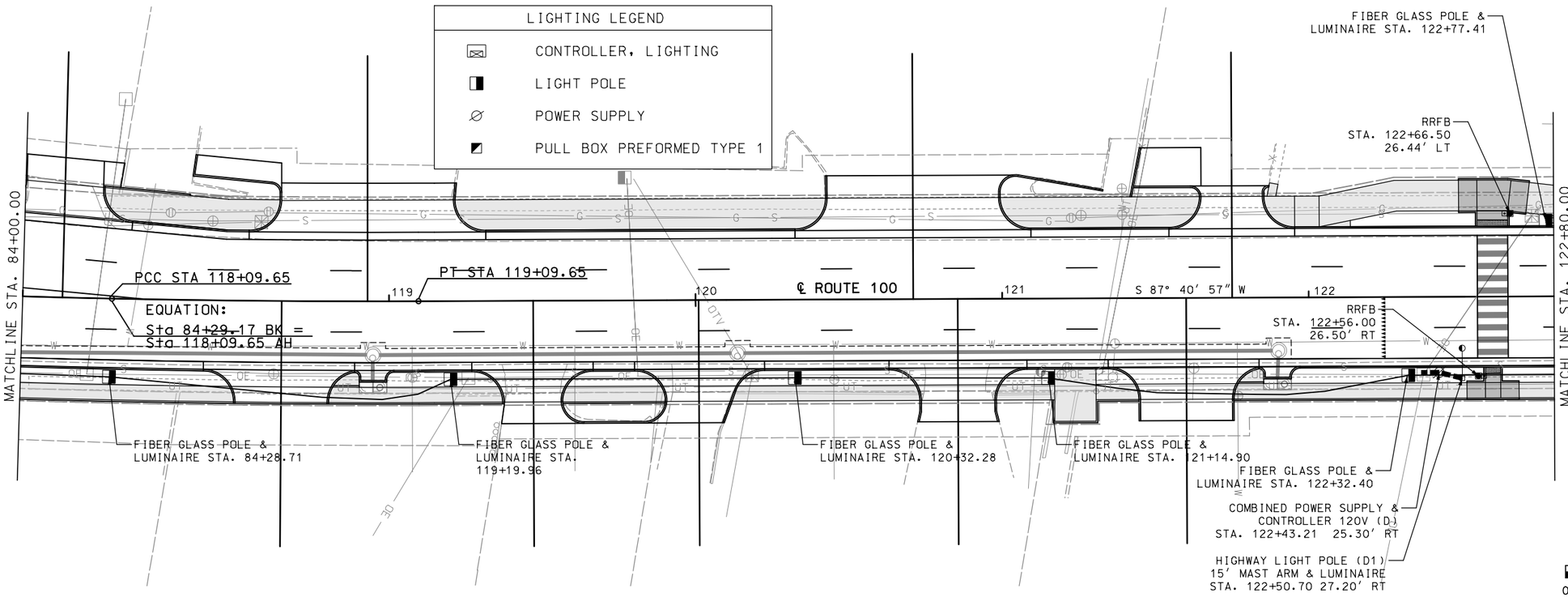
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SPECIAL SHEET
.
CONSTRUCTION DETAILS
.
ROUTE 100
.
SHEET 8 OF 25

REV.





DATE PREPARED 2/24/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 164
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 9 OF 25

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✳ THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS. IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.

LIGHTING LEGEND

- CONTROLLER, LIGHTING
- LIGHT POLE
- POWER SUPPLY
- PULL BOX PREFORMED TYPE 1

MANDERLY DRIVE

MATCHLINE STA. 122+80.00

PULL BOX PREFORMED TYPE 1 (TYP.)

FIBER GLASS POLE & LUMINAIRE STA. 123+90.59

FIBER GLASS POLE & LUMINAIRE STA. 125+03.62

PULL BOX PREFORMED TYPE 1 (TYP.)

PC STA 123+31.63

PT STA 124+27.46

PC STA 125+16.31

℄ ROUTE 100

PT STA 126+62.65

S 71° 45′ 57″ W

PC STA 127+13.40

MATCHLINE STA. 127+80.00

PULL BOX PREFORMED TYPE 1 (TYP.)

FIBER GLASS POLE & LUMINAIRE STA. 123+03.59

FIBER GLASS POLE & LUMINAIRE STA. 123+94.84

FIBER GLASS POLE & LUMINAIRE STA. 124+84.86
METERED LOAD CENTER #4
METER ADDRESS: ROUTE 100
AMEREN PREMISE: XXX

FIBER GLASS POLE & LUMINAIRE STA. 125+67.94

HIGH SCHOOL DRIVE

HIGH SCHOOL DRIVE

PULL BOX PREFORMED TYPE 1 (TYP.)

PULL BOX PREFORMED TYPE 1 (TYP.)

FIBER GLASS POLE & LUMINAIRE STA. 127+69.22

SCALE 0 20 40 60

MATCHLINE STA. 127+80.00

BREMERTON ROAD

END PROJECT J6S1718B
CONT. PROJECT J6S1718

PT STA 128+84.23

℄ ROUTE 100
S 68° 20′ 57″ W

PI STA 130+67.98

MATCHLINE STA. 131+60.90

MATCHLINE STA. 131+23.23

S 68° 12′ 18″ W

MATCHLINE STA. 132+80.00

FIBER GLASS POLE & LUMINAIRE STA. 128+42.39

FIBER GLASS POLE & LUMINAIRE STA. 129+09.79

FIBER GLASS POLE & LUMINAIRE STA. 129+94.09

BREMERTON ROAD

END PROJECT J6S1718B
CONT. PROJECT J6S1718

SCALE 0 20 40 60

DATE PREPARED
2/24/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	165

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION

DATE

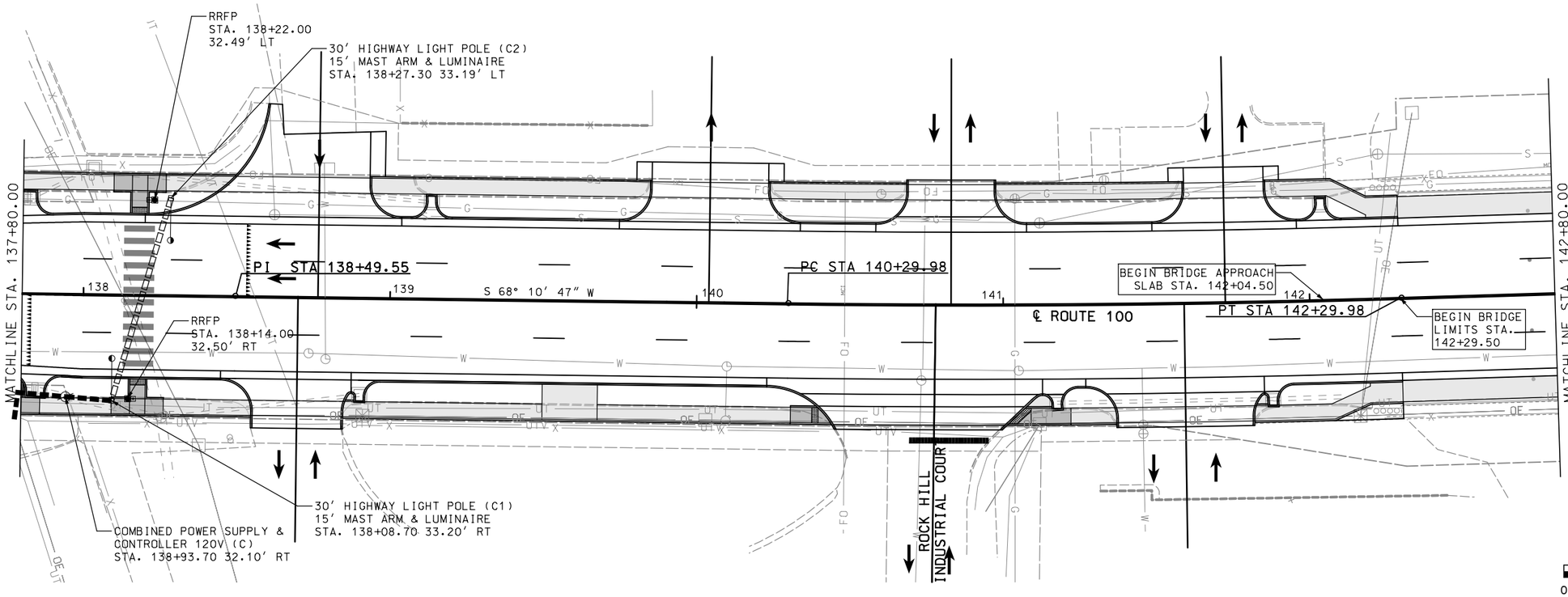
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

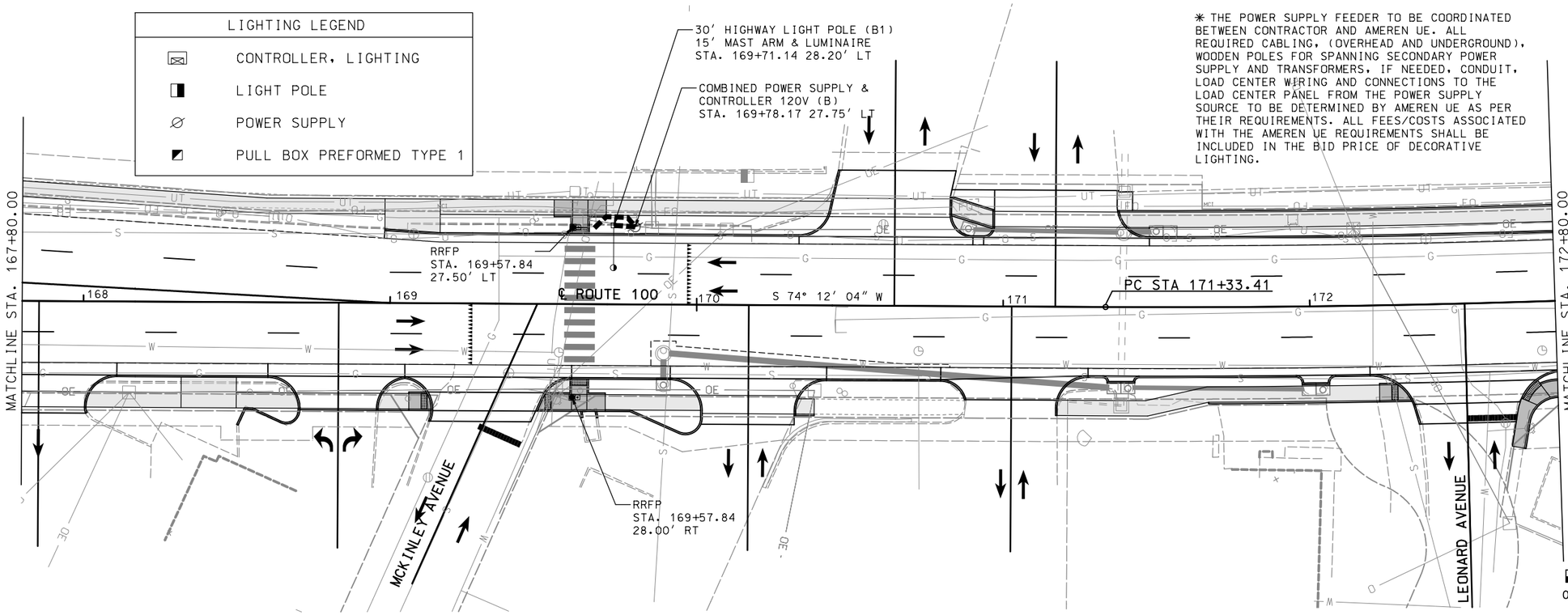
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SPECIAL SHEET
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CONSTRUCTION DETAILS
.
ROUTE 100
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SHEET 10 OF 25

REV.





DATE PREPARED
2/24/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	166

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

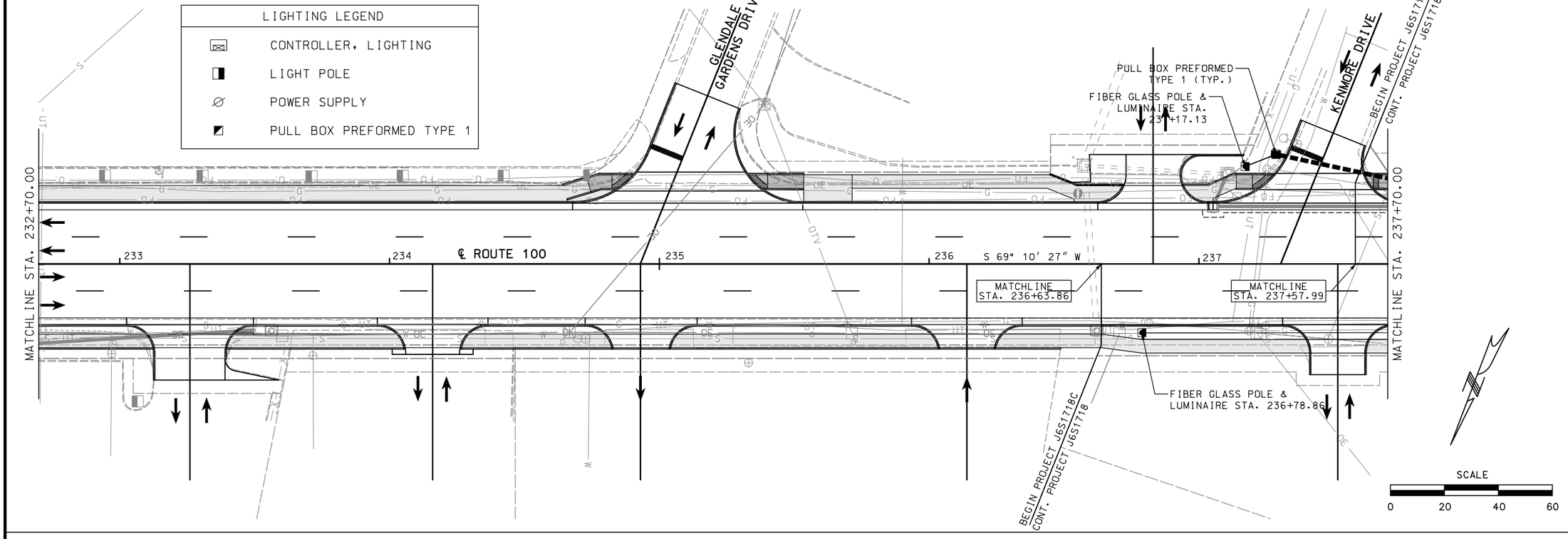
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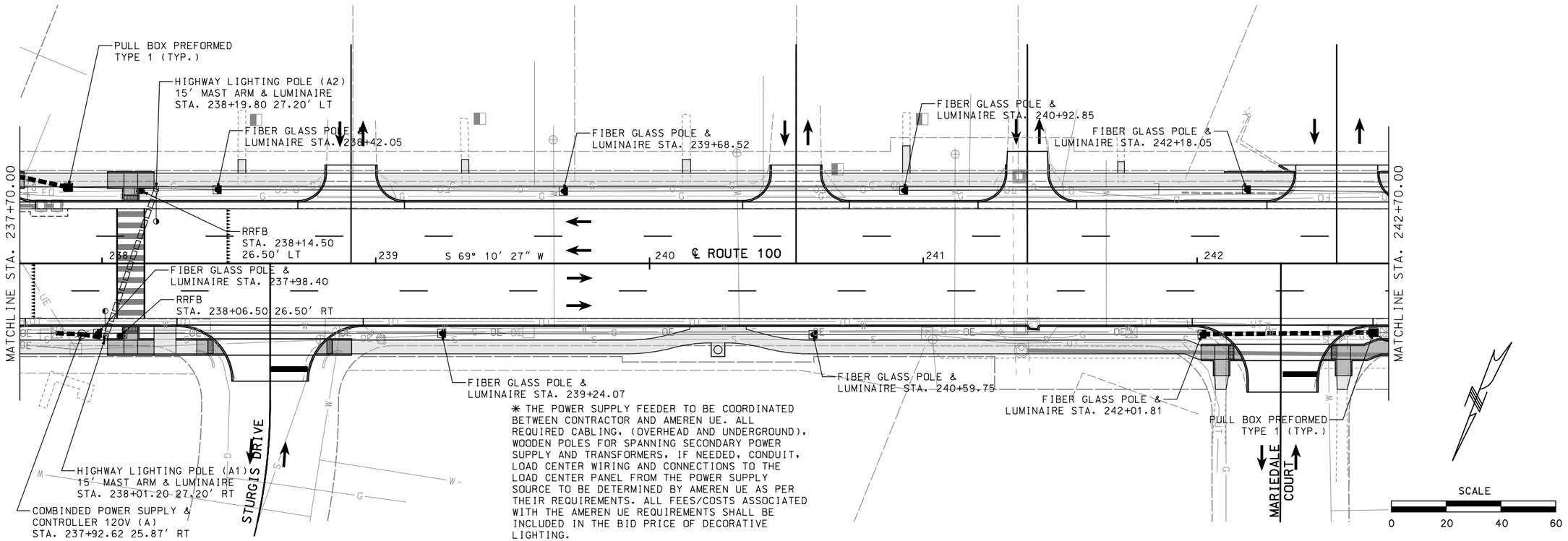
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 11 OF 25

REV.

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* THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS, IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.

DATE PREPARED 2/24/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 176
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

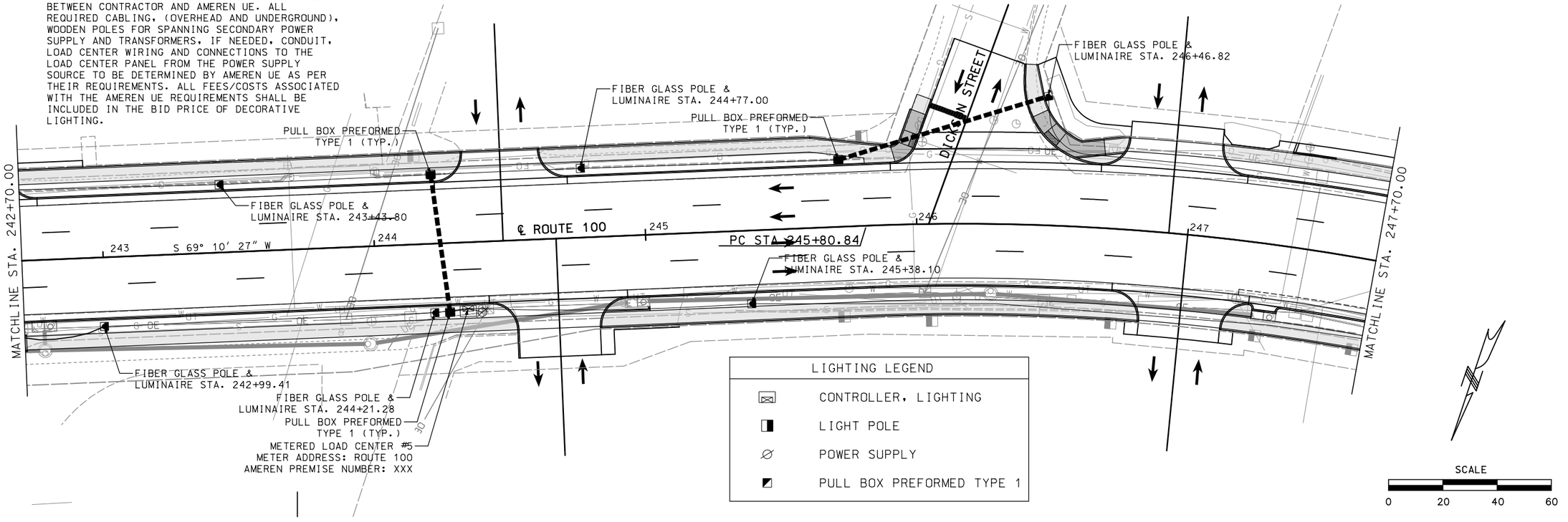
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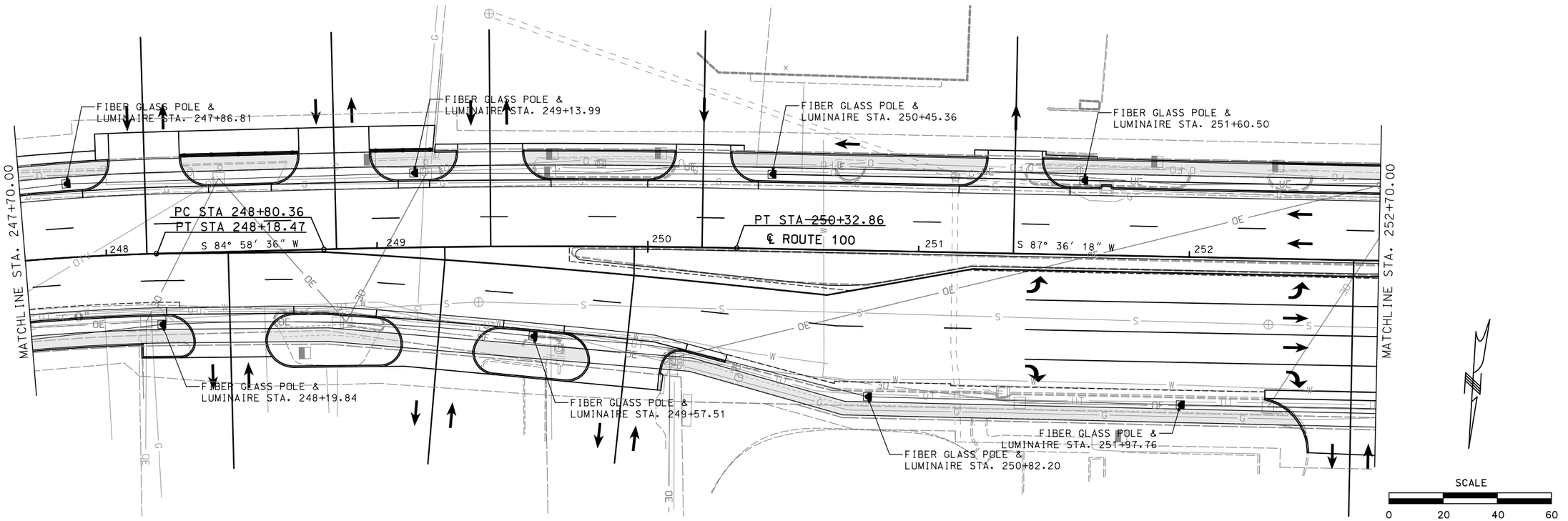
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 21 OF 25

REV.

✳ THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS, IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.





DATE PREPARED
2/24/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	177

COUNTY
ST. LOUIS

JOB NO.
J6S1718C

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION

DATE

REV.

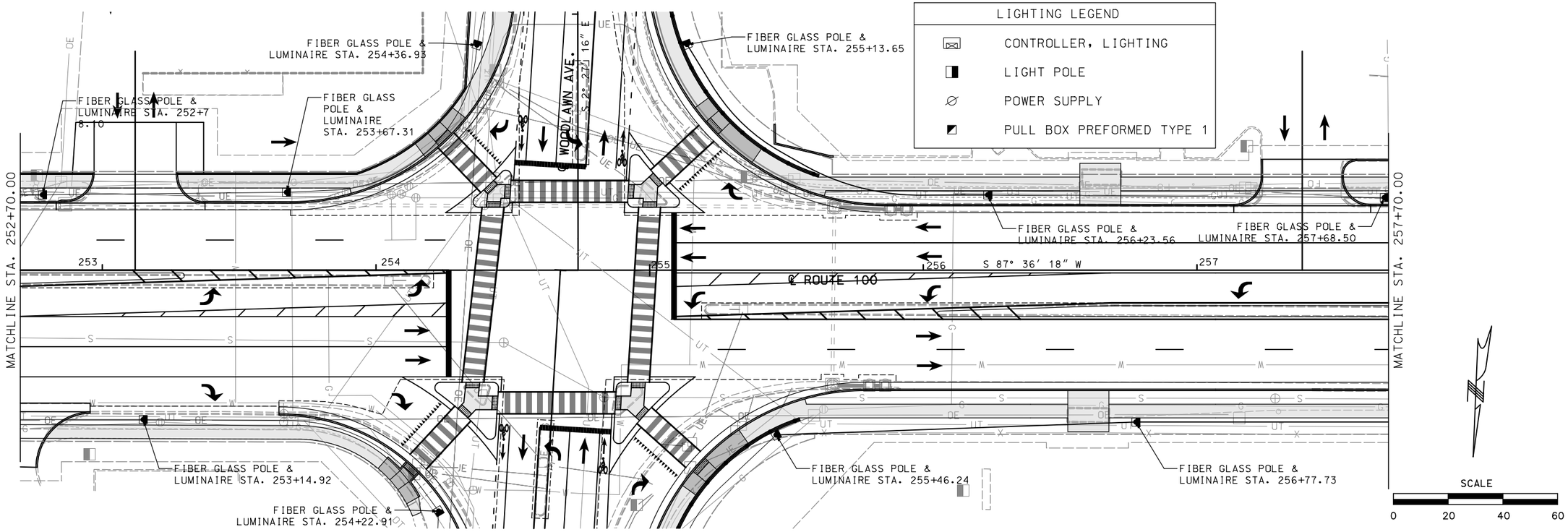
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 22 OF 25

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* THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS, IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.

DATE PREPARED 2/24/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 178
COUNTY ST. LOUIS
JOB NO. J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

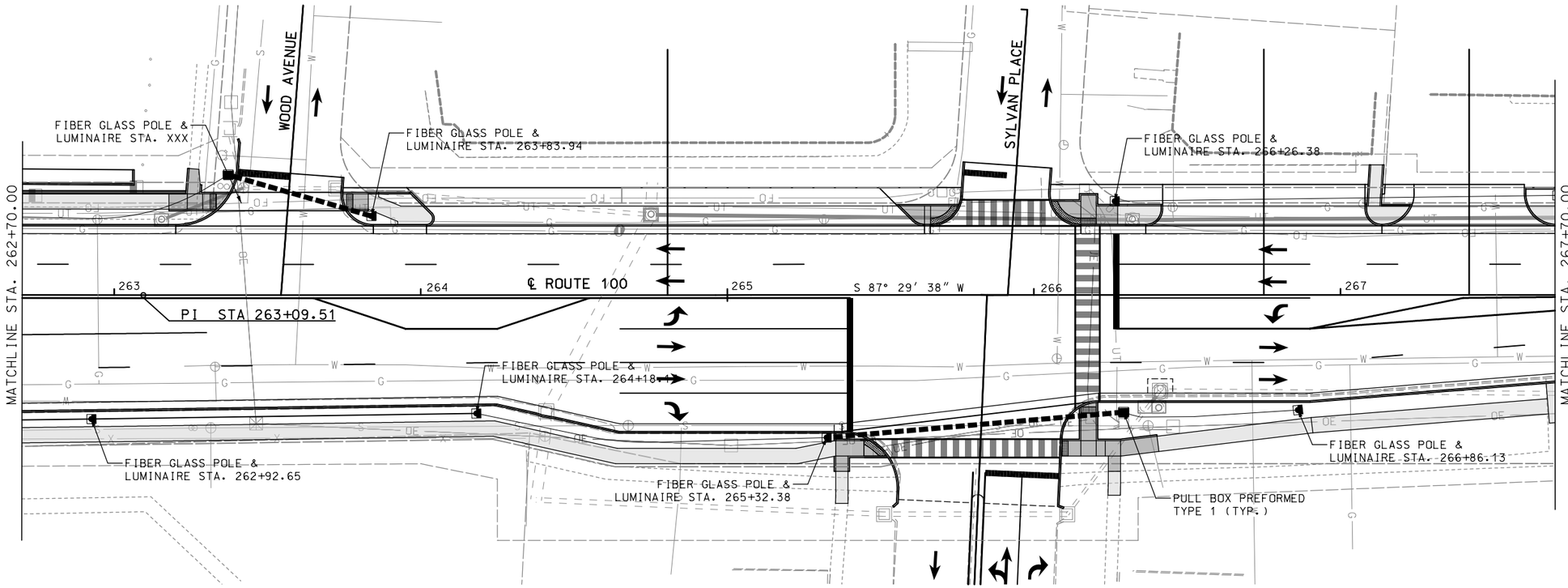
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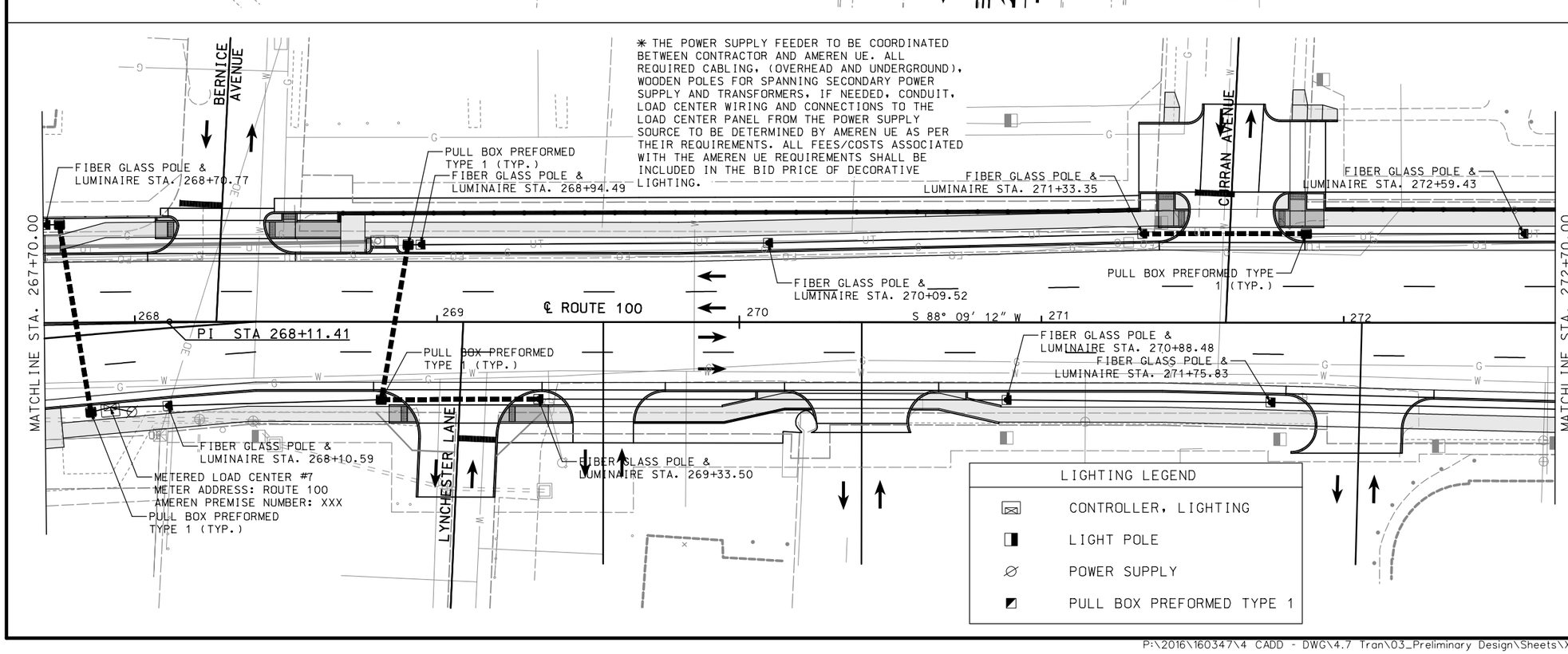
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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 23 OF 25

REV.





DATE PREPARED
2/24/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	179

COUNTY
ST. LOUIS

JOB NO.
J6S1718C

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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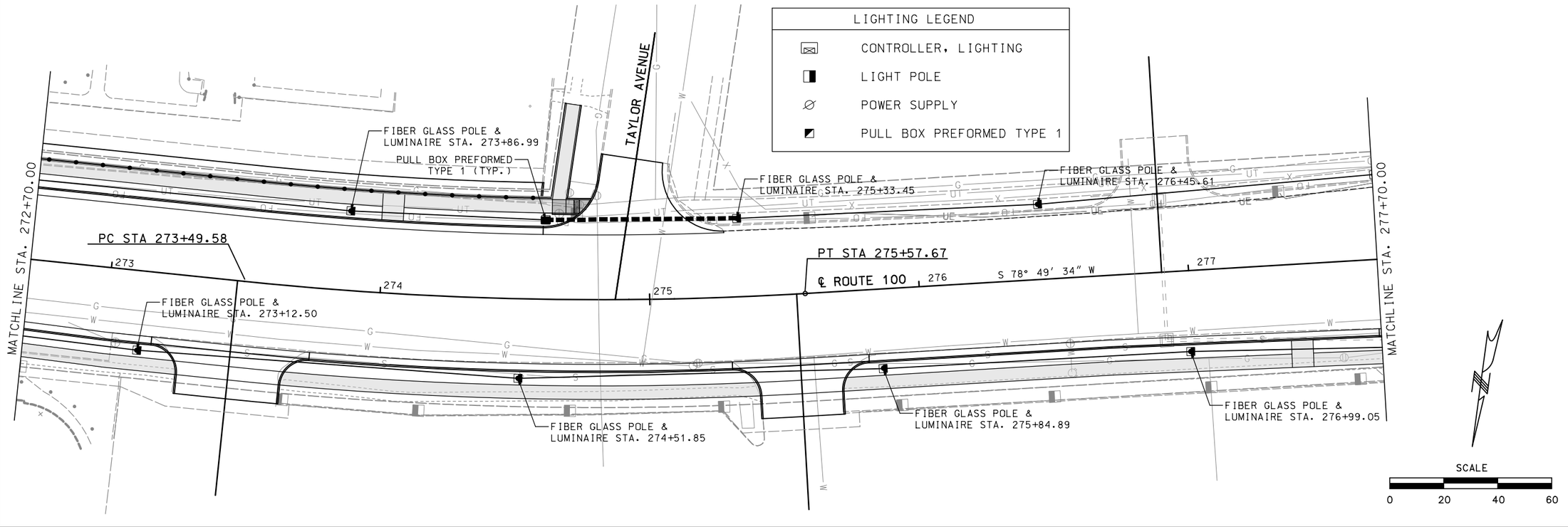
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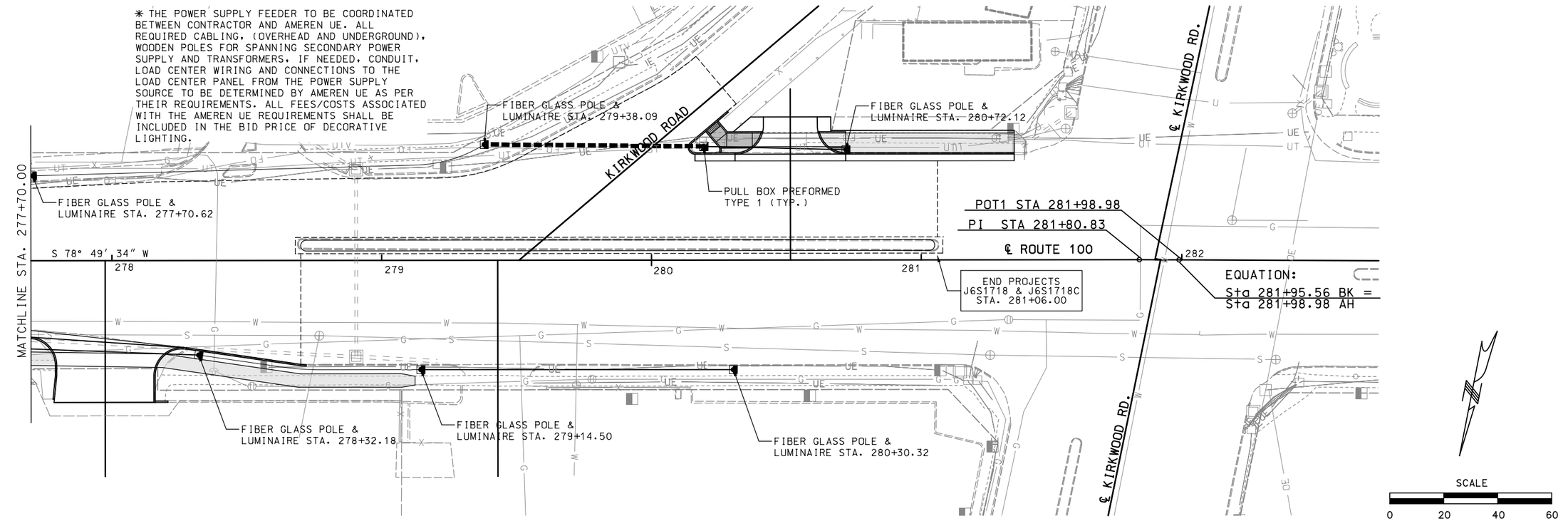
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SPECIAL SHEET
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CONSTRUCTION DETAILS
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ROUTE 100
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SHEET 24 OF 25

REV.



✳ THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN UE. ALL REQUIRED CABLING, (OVERHEAD AND UNDERGROUND), WOODEN POLES FOR SPANNING SECONDARY POWER SUPPLY AND TRANSFORMERS, IF NEEDED, CONDUIT, LOAD CENTER WIRING AND CONNECTIONS TO THE LOAD CENTER PANEL FROM THE POWER SUPPLY SOURCE TO BE DETERMINED BY AMEREN UE AS PER THEIR REQUIREMENTS. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN UE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF DECORATIVE LIGHTING.



DATE PREPARED 2/24/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 180
COUNTY ST. LOUIS
JOB NO. J6S1718C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SPECIAL SHEET . CONSTRUCTION DETAILS . ROUTE 100 . SHEET 25 OF 25

REV.

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG001

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

GENERAL NOTES

ROUTE 100

SHEET 01 OF 64

TRAFFIC SIGNALS LEGEND

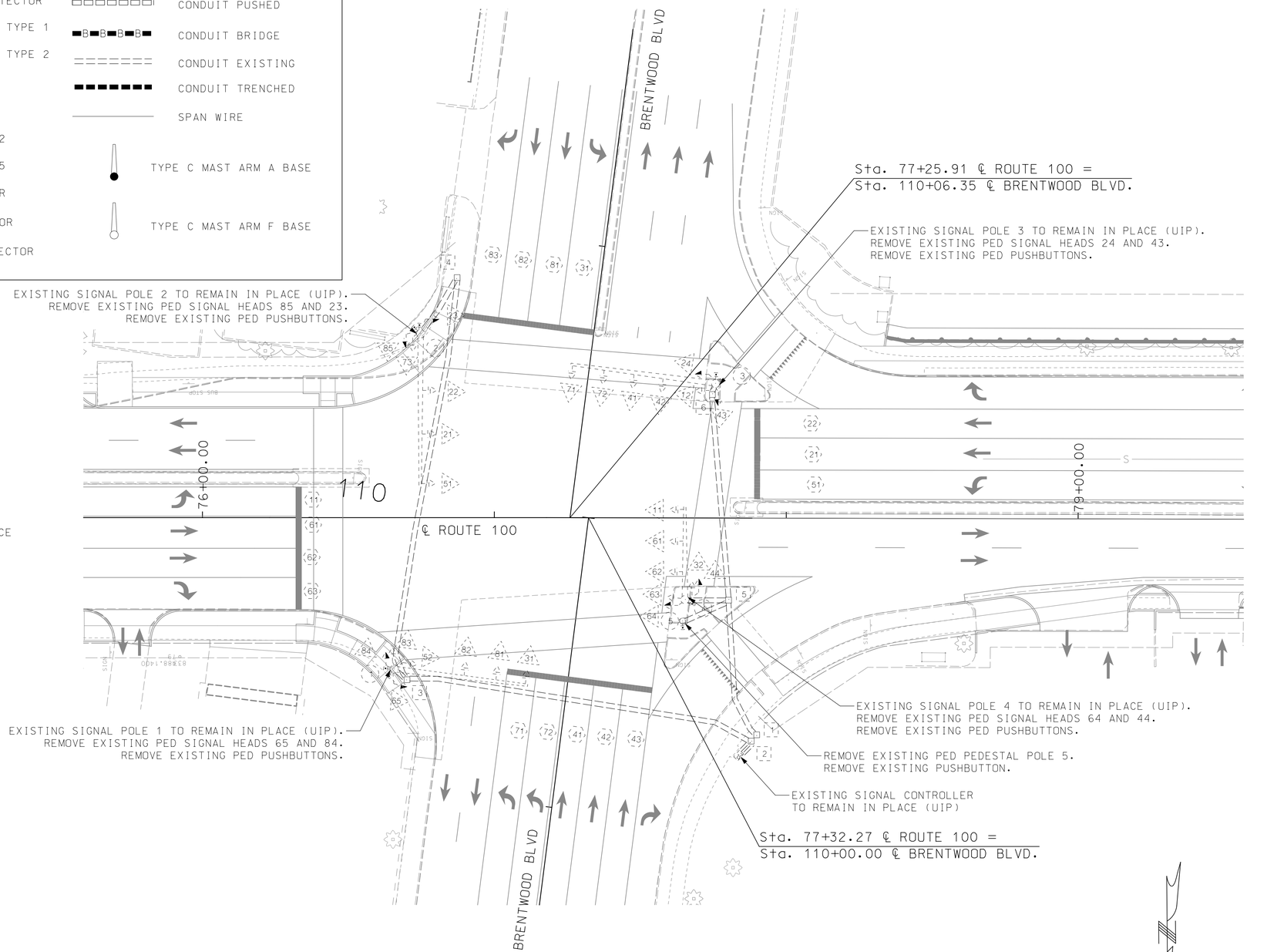
- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- TYPE C BASE
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- APS PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG002

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

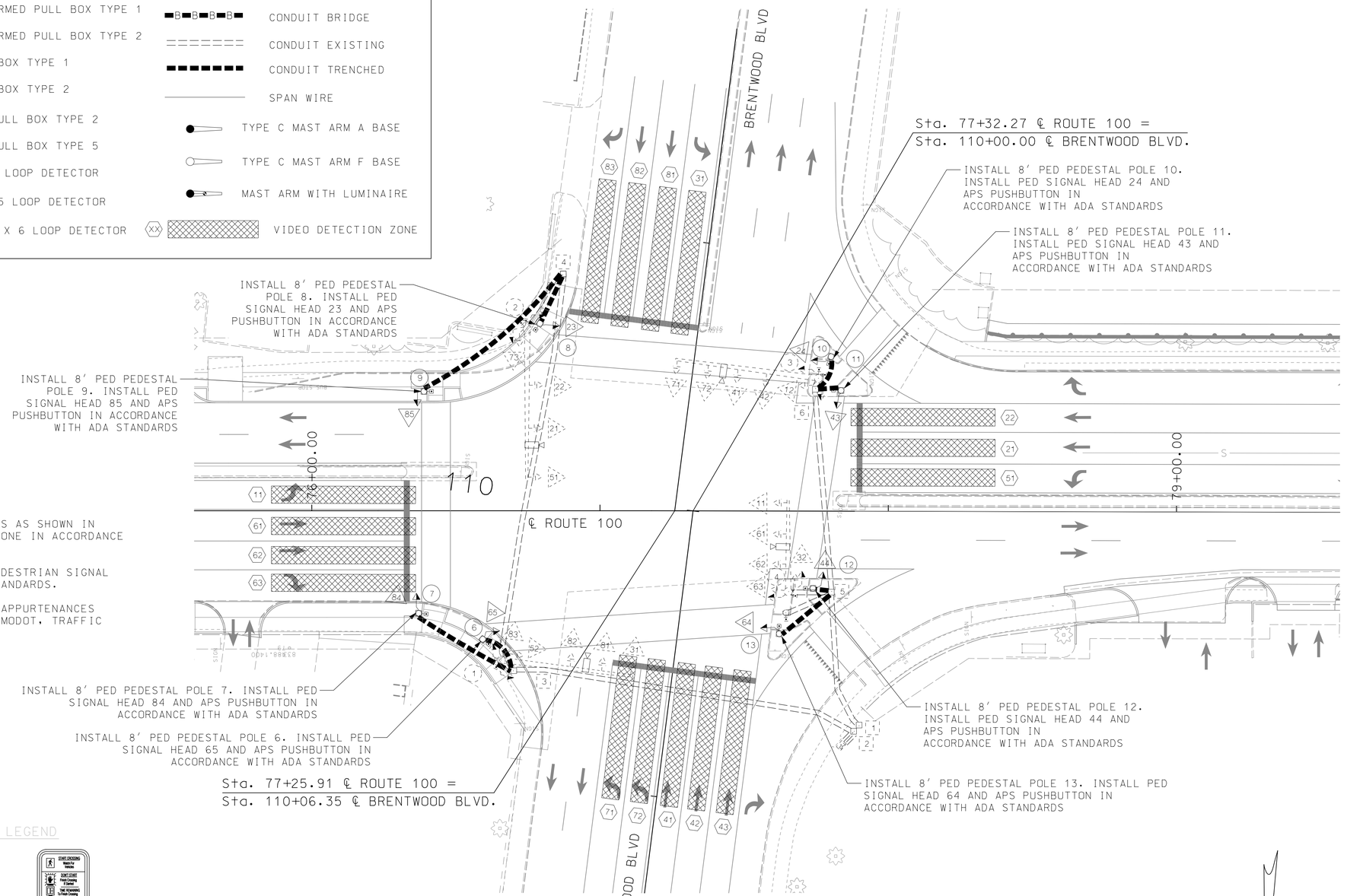
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & BRENTWOOD BLVD.
SHEET 02 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE



GENERAL NOTES

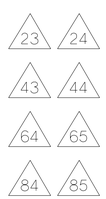
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3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.

SIGNAL HEAD LEGEND

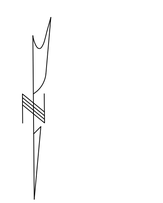




SIGN LEGEND







"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG003

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
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St. Louis, MO 63103-2267
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Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & BRENTWOOD BLVD.
SHEET 03 OF 64

EFFECTIVE: 10/01/2016

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | POST TYPE C & CL ARM LENGTH A | SIGNAL SPACING B | SIGNAL SPACING C | SIGN SPACING D | SIGN SPACING D' | POST TYPE B & BL ARM LENGTH E | LEFT ARM E SIGNAL SPACING F | LEFT ARM E SIGNAL SPACING G | LEFT ARM E SIGNAL SPACING H | LEFT ARM E SIGNAL SPACING H' | LEFT ARM E SIGN SPACING F | LEFT ARM E SIGN SPACING G | LEFT ARM E SIGN SPACING H | LEFT ARM E SIGN SPACING H' | RIGHT ARM K SIGNAL SPACING L | RIGHT ARM K SIGNAL SPACING M | RIGHT ARM K SIGNAL SPACING N | RIGHT ARM K SIGNAL SPACING N' | RIGHT ARM K SIGN SPACING L | RIGHT ARM K SIGN SPACING M | RIGHT ARM K SIGN SPACING N | RIGHT ARM K SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
3	6	15'		17'													
3	7	40'		42'													
4	8	18'		20'													
4	9	65'		67'													
5	12	7'		9'													
5	13	23'		25'													
6	10	13'		15'													
6	11	10'		12'													
SUBTOTALS				199'													
TOTALS				199'													

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	3c#20	COAX	SINGLE-MODE	MULTI-MODE	
☒	2	7'			144'	144'						72'	72'			8-2c; 8-5c; 4-3c; 4-COAX
2	3	120'			504'	504'						252'	252'			4-2c; 4-5c; 2-3c; 2-COAX
3	6	15'			18'	18'										1-2c; 1-5c
3	7	40'			43'	43'										1-2c; 1-5c
3	4	140'			292'	292'						146'	146'			2-2c; 2-5c; 1-3c; 1-COAX
4	8	18'			21'	21'										1-2c; 1-5c
4	9	65'			68'	68'										1-2c; 1-5c
2	1	3'			36'	36'						18'	18'			4-2c; 4-5c; 2-3c; 2-COAX
1	5	46'			208'	208'						104'	104'			4-2c; 4-5c; 2-3c; 2-COAX
5	12	7'			10'	10'										1-2c; 1-5c
5	13	23'			26'	26'										1-2c; 1-5c
5	6	70'			152'	152'						76'	76'			2-2c; 2-5c; 1-3c; 1-COAX
6	10	13'			16'	16'										1-2c; 1-5c
6	11	10'			13'	13'										1-2c; 1-5c
3	1	6'										9'	9'			1-3c; 1-COAX
4	2	23'										26'	26'			1-3c; 1-COAX
6	3	4'										7'	7'			1-3c; 1-COAX
5	4	15'										18'	18'			1-3c; 1-COAX
POLE 1												51'	51'			1-3c; 1-COAX
POLE 2												65'	65'			1-3c; 1-COAX
POLE 3												49'	49'			1-3c; 1-COAX
POLE 4												37'	37'			1-3c; 1-COAX
POLE 6					9'	15'										1-2c; 1-5c
POLE 7					9'	15'										1-2c; 1-5c
POLE 8					9'	15'										1-2c; 1-5c
POLE 9					9'	15'										1-2c; 1-5c
POLE 10					9'	15'										1-2c; 1-5c
POLE 11					9'	15'										1-2c; 1-5c
POLE 12					9'	15'										1-2c; 1-5c
POLE 13					9'	15'										1-2c; 1-5c
SUBTOTALS					1,767'	1,815'						930'	930'			
TOTALS					1,770'	1,820						930'	930'			

INTERSECTION ROUTE 100 & BRENTWOOD BLVD. D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG005

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & BRENTWOOD BLVD.
SHEET 05 OF 64

EFFECTIVE 04-01-2002

POWER SUPPLY- EXISTING

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
.	.	.	Ex	.	15 Amps	. Amps	. Amps	. Amps		Amps	Cl. Ft.	Ameren UE
.	.	.	Type	.	15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✳ SWITCH		COORDINATION INTERFACE ✳						TIME ✳ CLOCK	NEMA CABINET TYPE ✳			170 CABINET TYPE ✳		170 SOFTWARE ✳	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
.	.	.	.	.	X	.	X							X			Ex					
.	.	.	.	.	.	.																
.	.	.	.	.	.	.																
.	.	.	.	.	.	.																

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON ✟	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
65	NORTH CROSSWALK	1	.	.	.	.
84	EAST CROSSWALK	1				
23	SOUTH CROSSWALK	1				
86	EAST CROSSWALK	1				
24	SOUTH CROSSWALK	1				
43	WEST CROSSWALK	1				
44	WEST CROSSWALK	1				
64	NORTH CROSSWALK	1				
11	ROUTE 100 WB LT					1
61	ROUTE 100 WB					1
62	ROUTE 100 WB					1
63	ROUTE 100 WB					1
81	BRENTWOOD BLVD NB					1
82	BRENTWOOD BLVD NB					1
83	BRENTWOOD BLVD NB					1
31	BRENTWOOD BLVD NB LT					1
21	ROUTE 100 EB					1
22	ROUTE 100 EB					1
51	ROUTE 100 EB LT					1
71	BRENTWOOD BLVD SB LT					1
72	BRENTWOOD BLVD SB LT					1
41	BRENTWOOD BLVD SB					1
42	BRENTWOOD BLVD SB					1
43	BRENTWOOD BLVD SB					1
.						
	TOTAL	8				

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✟ FULL ADA-COMPLIANT APS PUSH BUTTONS

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	11	21 22	71 72	41 42 43				
	2	51	61 62 63	31	81 82 83				

Note: Land 2C Detector Wires on Detector Panel in Cabinet

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 0 NEW (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
11	21 22	51	61 62 63	31	41 42	71 72	81 82 83	23 24	43 44	64 65	84 85

TOTAL NUMBER OF LOAD SWITCHES = 0 NEW

ROUTE 100 & BRENTWOOD BLVD.

INTERSECTION

D-37C

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG006

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
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.	.
.	.
.	.
.	.
.	.
.	.
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
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314-425-8300
Certificate of Authority: 000856

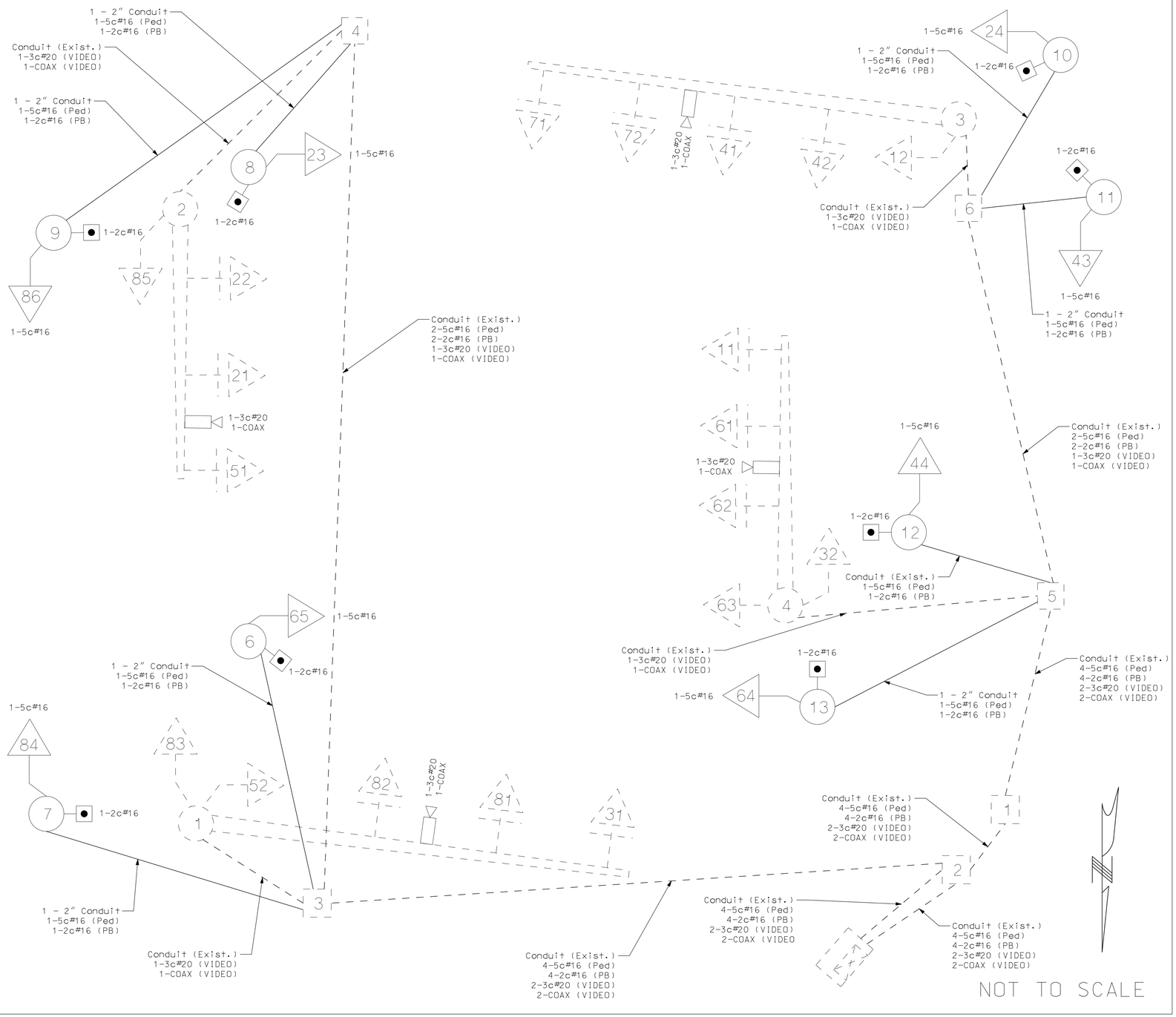
TRAFFIC SIGNAL PLANS

ROUTE 100 & BRENTWOOD BLVD.

SHEET 06 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

WIRING DIAGRAM



LEGEND

CONDUIT CONTAINING CABLE WITH SIZE

X-Xc MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)

LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)

PULL BOX WITH NUMBER

POST WITH NUMBER

POST WITH MAST ARM

DETECTOR WITH NUMBER

SIGNAL HEAD WITH NUMBER

SIGNAL CONTROLLER

POWER SUPPLY

VIDEO DETECTOR

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DATE PREPARED: 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG007

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
SHEET 07 OF 64
ROUTE 100 & BRENTWOOD BLVD.

TRAFFIC SIGNAL PLANS (PROPOSED)
SHEET 07 OF 64
ROUTE 100 & BRENTWOOD BLVD

INTERSECTION

D-37D

EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

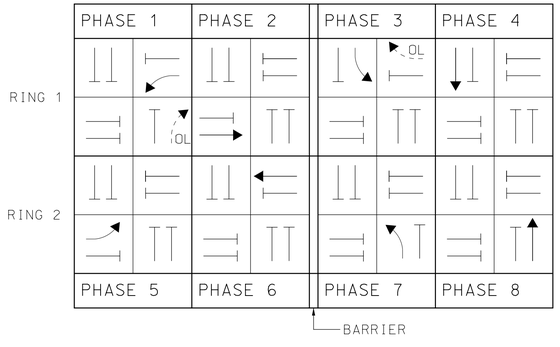
	PHASE 1+5				PHASE 2+6				PHASE 3+7				PHASE 4+8				PHASE	PHASE	PHASE	PHASE	PED Φ 2	PED Φ 4	PED Φ 6	PED Φ 8
																					OVERLAP	OVERLAP	OVERLAP	OVERLAP
FACE NUMBERS	11	51	83		21	22	63		31	71	73	63	41	42	83						23	43	64	84
	12	52			61	62			32	72			81	82							24	44	65	85
SIGNAL INDICATIONS R	RL	RL	R		R	R	R		RL	RL	RL	R	R	R	R						DW	DW	DW	DW
SIGNAL INDICATIONS Y	YL	YL	YR†		Y	Y	Y		YL	YL	YL	YR†	Y	Y	Y						FDW	FDW	FDW	FDW
SIGNAL INDICATIONS FYA																								
SIGNAL INDICATIONS G	L	L	RT		S	G	G		L	L	L	RT	S	G	G						W	W	W	W
DETECTOR ASSIGNMENTS																								
DETECTOR ASSIGNMENTS (PEDS. ONLY)																								
OVERLAP PARENT PHASES																								

FACE NUMBERS

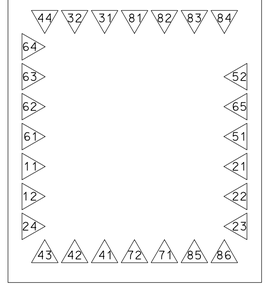
SIGNAL INDICATIONS (R, Y, FYA, G)

DETECTOR ASSIGNMENTS

RING STRUCTURE



SIGNAL FACE LOCATION



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YR† — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY — YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE 100	FR
BRENTWOOD RD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

ROUTE 100 WITH BRENTWOOD BLVD.

D-38A

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG008

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TRAFFIC SIGNAL PLANS
ROUTE 100 & BRENTWOOD BLVD.
SHEET 08 OF 64

TRAFFIC SIGNALS LEGEND

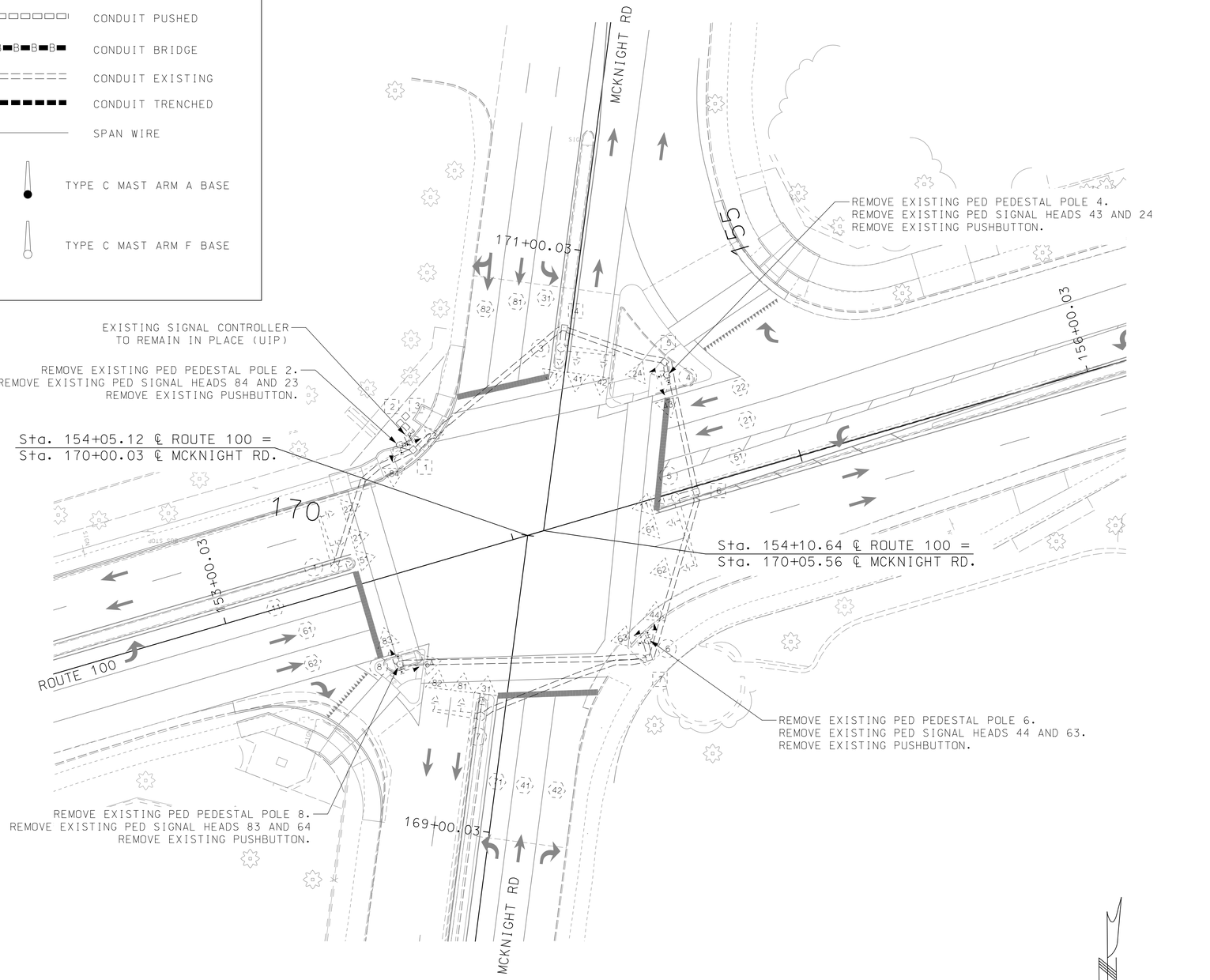
- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- TYPE C BASE
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- APS PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG009

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

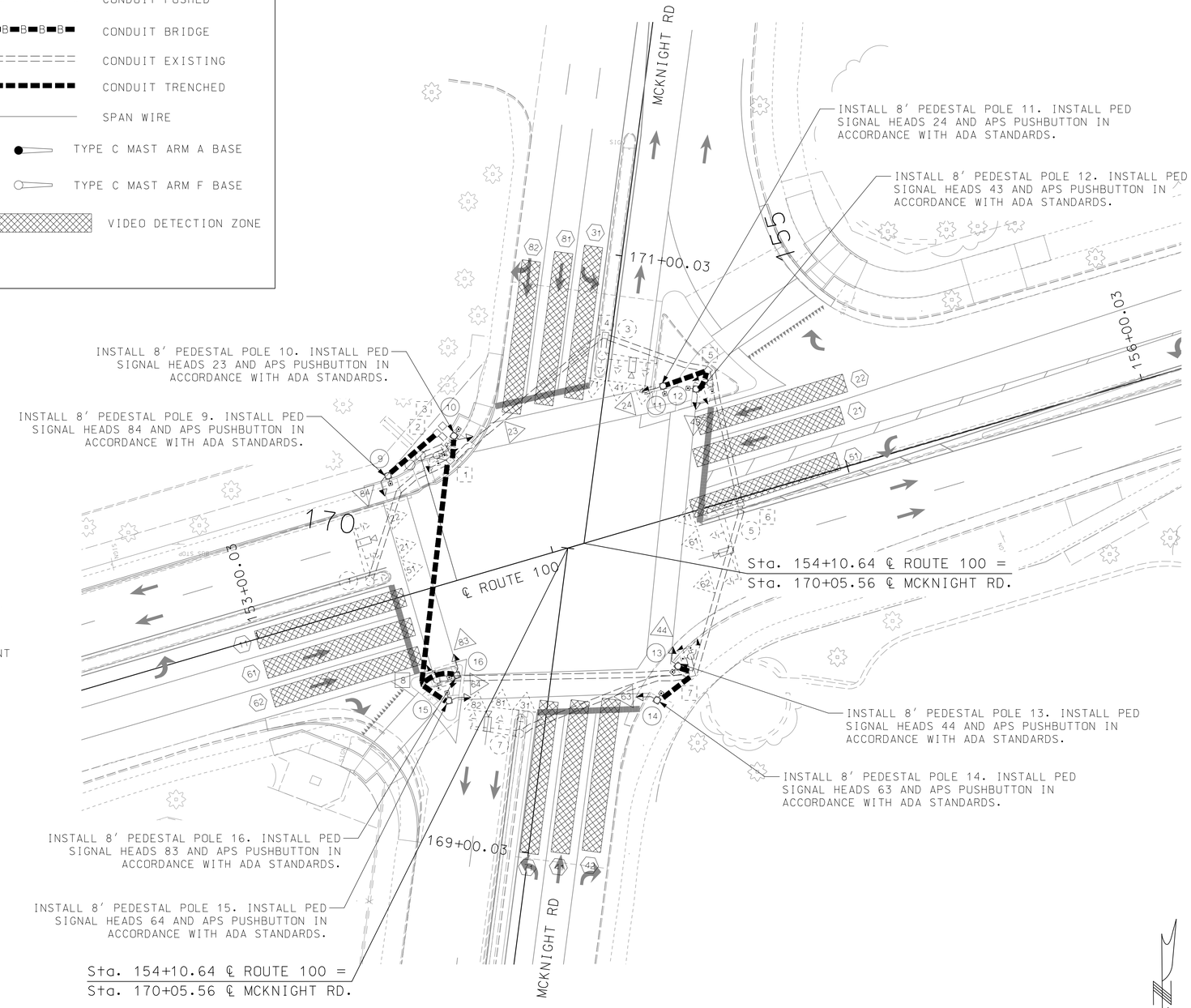
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401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & MCKNIGHT RD
SHEET 09 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- VIDEO DETECTION ZONE



GENERAL NOTES

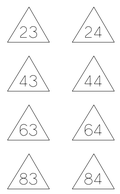
1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.

SIGNAL HEAD LEGEND





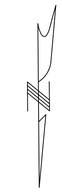
SIGN LEGEND



R10-3eL (9"X15") 6 EACH



R10-3eR (9"X15") 2 EACH



SCALE

0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG010

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & MCKNIGHT RD
SHEET 10 OF 64

EFFECTIVE: 10/01/2016

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A	BASE: F	BASE: C	BASE: CONCRETE** (CU. YDS.)	PULL BOX: PREFORMED CLASS 1	PULL BOX: PREFORMED CLASS 2	PULL BOX: PREFORMED CLASS 3	PULL BOX: PREFORMED CLASS 5	PULL BOX: CONCRETE STANDARD	PULL BOX: CONCRETE DOUBLE, TYPE A	PULL BOX: CONCRETE DOUBLE, TYPE B	PULL BOX: DRAIN TYPE*	POST: TOP MOUNT POST 8 FT.	POST: TOP MOUNT POST 15 FT.	POST: TYPE C & CL ARM LENGTH	POST: TYPE C & CL SIGNAL SPACING	POST: TYPE C & CL SIGN SPACING	POST: TYPE B & BL ARM LENGTH	POST: TYPE B & BL LEFT ARM E SIGNAL SPACING	POST: TYPE B & BL LEFT ARM E SIGN SPACING	POST: TYPE B & BL RIGHT ARM K SIGNAL SPACING	POST: TYPE B & BL RIGHT ARM K SIGN SPACING	POST: INCLUDED ANGLE	POST: LUMINAIRE BRACKET ARM* 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
1		ROUTE 100	153+40	8' LT	E X I S T I N G												1																
3		ROUTE 100	154+33	57' LT	E X I S T I N G												1																
5		ROUTE 100	154+56	2' RT	E X I S T I N G												1																
7		ROUTE 100	153+73	54' RT	E X I S T I N G												1																
9		ROUTE 100	153+56	39' LT			1	0.44									1																
10		ROUTE 100	153+80	46' LT			1	0.44									1																
11		ROUTE 100	154+50	42' LT			1	0.44									1																
12		ROUTE 100	154+60	38' LT			1	0.44									1																
13		ROUTE 100	154+29	47' RT			1	0.44									1																
14		ROUTE 100	154+19	56' RT			1	0.44									1																
15		ROUTE 100	153+54	37' RT			1	0.44									1																
16		ROUTE 100	153+59	30' RT			1	0.44									1																
	1	ROUTE 100	153+77	38' LT	E X I S T I N G																												
	2	ROUTE 100	153+75	48' LT	E X I S T I N G																												
	3	ROUTE 100	153+77	50' LT	E X I S T I N G																												
	4	ROUTE 100	154+36	63' LT	E X I S T I N G																												
	5	ROUTE 100	154+66	43' LT	E X I S T I N G																												
	6	ROUTE 100	154+63	2' RT	E X I S T I N G																												
	7	ROUTE 100	154+33	51' RT	E X I S T I N G																												
	8	ROUTE 100	153+47	29' RT					1							X																	
SUBTOTAL								3.52		1							8																
TOTAL								3.52		1							8																

SIGNAL HEADS

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE 150W SODIUM	INDICATIONS * 12" LENS CONVENTIONAL	INDICATIONS * 12" LENS OPTICAL LIMITING	VISORS * 12" LENS	VISORS * PED.	LOUVERS *	BACKPLATE* LENSES	BRACKET* TYPE	ONE-FACE SECTION	TWO-FACE SECTIONS
	1	21		E X I S T I N G		3			EX	EX	X	
		22		E X I S T I N G		3			EX	EX	X	
		51		E X I S T I N G		5			EX	EX	X	
	3	41		E X I S T I N G		3			EX	EX	X	
		42		E X I S T I N G		3			EX	EX	X	
		71		E X I S T I N G		5			EX	EX	X	
	5	11		E X I S T I N G		3			EX	EX	X	
		61		E X I S T I N G		3			EX	EX	X	
		62		E X I S T I N G		5			EX	EX	X	
	7	31		E X I S T I N G		3			EX	EX	X	
		81		E X I S T I N G		3			EX	EX	X	
		82		E X I S T I N G		5			EX	EX	X	
	9	84						1		1	1	
	10	23						1		1	1	
	11	24						1		1	1	
	12	43						1		1	1	
	13	44						1		1	1	
	14	63						1		1	1	
	15	64						1		1	1	
	16	83						1		1	1	
SUBTOTAL								SUBTOTAL OPTICALLY LIMITED				
TOTAL								SUBTOTAL CONVENTIONAL				
								SUBTOTAL COMBINATION OL & CONV		8	X	X
								TOTAL OPTICALLY LIMITED				
								TOTAL CONVENTIONAL				
								TOTAL COMBINATION OL & CONV		8	X	X

SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	TOTAL AREA EACH SIGN ITEM NO. 90350.04A	SIGNAL MOUNTING HARDWARE ITEM NO. 90350.73
		INCHES	SQ.FT.	SQ.FT.	EA.
6	R10-3eL	9 x 15	0.9	5.6	6
2	R10-3eR	9 x 15	0.9	1.9	2
	SUBTOTAL		7.5		8
	TOTAL		7.5		8

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

LEGEND

T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

TRAFFIC SIGNAL PLANS (PROPOSED)
SHEET 11 OF 64
ROUTE 100 & MCKNIGHT RD.
INTERSECTION

D-37A

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/5/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: SG011
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & MCKNIGHT RD.
SHEET 11 OF 64

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
☒	1	EX.		EX.													
☒	2	EX.		EX.													
2	9	22′		23′													
1	10	8′		9′													
1	8	74′		72′													
8	15	10′		11′													
8	16	12′		13′													
5	11	16′		17′													
5	12	8′		9′													
7	13	6′		7′													
7	14	15′		16′													
1	1	48′		EX.													
4	3	7′		EX.													
5	6	45′		EX.													
6	5	8′		EX.													
7	7	60′		EX.													
1	4	EX.		EX.													
4	5	EX.		EX.													
6	7	EX.		EX.													
SUBTOTALS				177′													
TOTALS				177′													

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	3c#20	COAX	SINGLE-MODE	MULTI-MODE	
☒	2	5′			19′	19′										1-5c, 1-2c
2	9	22′			28′	28′										1-5c, 1-2c
☒	1	5′			57′	57′						68′	68′			7-2c, 7-5c, 4-3c, 4-COAX
1	10	8′			14′	14′										1-5c, 1-2c
1	8	74′			172′	172′										2-2c, 2-5c
8	15	10′			16′	16′										1-5c, 1-2c
8	16	12′			18′	18′										1-5c, 1-2c
1	4	65′			308′	308′						213′	213′			4-2c, 4-5c, 3-3c, 3-COAX
4	5	36′			192′	192′						84′	84′			4-2c, 4-5c, 3-3c, 3-COAX
5	11	16′			22′	22′										1-5c, 1-2c
5	12	8′			14′	14′						102′	102′			1-5c, 1-2c
5	6	45′			114′	114′						64′	64′			2-2c, 2-5c, 2-3c, 2-COAX
6	7	58′			140′	140′										2-2c, 2-5c, 1-3c, 1-COAX
7	13	6′			12′	12′						55′	55′			1-5c#16, 1-2c#16
7	14	15′			21′	21′						14′	14′			1-5c#16, 1-2c#16
1	1	48′										15′	15′			1-3c#20, 1-COAX
4	3	7′										67′	67′			1-3c#20, 1-COAX
6	5	8′														1-3c#20, 1-COAX
7	7	60′														1-3c#20, 1-COAX
POLE 1												34′	34′			1-3c#20, 1-COAX
POLE 3												32′	32′			1-3c#20, 1-COAX
POLE 5												35′	35′			1-3c#20, 1-COAX
POLE 7												32′	32′			1-3c#20, 1-COAX
POLE 9					9′	15′										1-5c#16, 1-2c#16
POLE 10					9′	15′										1-5c#16, 1-2c#16
POLE 11					9′	15′										1-5c#16, 1-2c#16
POLE 12					9′	15′										1-5c#16, 1-2c#16
POLE 13					9′	15′										1-5c#16, 1-2c#16
POLE 14					9′	15′										1-5c#16, 1-2c#16
POLE 15					9′	15′										1-5c#16, 1-2c#16
POLE 16					9′	15′										1-5c#16, 1-2c#16
SUBTOTALS					1,219′	1,267′						580′	580′			
TOTALS					1,220′	1,270′						580′	580′			

INTERSECTION ROUTE 100 & MCKNIGHT RD. D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG012

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & MCKNIGHT RD.
SHEET 12 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 04-01-2002

POWER SUPPLY - EXISTING

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	153+77'	44' LT	Ex	.	15 Amps	. Amps	. Amps	. Amps		Amps	Ci. Ft.	Ameren UE
.	.	.	Type	.	15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✳ SWITCH		COORDINATION INTERFACE ✳						TIME ✳ CLOCK	NEMA CABINET TYPE ✳			170 CABINET TYPE ✳		170 SOFTWARE ✳	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	153+68'	43' LT	.	.	X	.	X							X			Ex					
.	.	.	.	.	.	.																
.	.	.	.	.	.	.																
.	.	.	.	.	.	.																

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
84P	EAST CROSSWALK	1				
23P	SOUTH CROSSWALK	1				
24P	SOUTH CROSSWALK	1				
43P	WEST CROSSWALK	1				
44P	WEST CROSSWALK	1				
63P	NORTH CROSSWALK	1				
64P	NORTH CROSSWALK	1				
83P	EAST CROSSWALK	1				
11	ROUTE 100 WB LT					1
21	ROUTE 100 EB					1
22	ROUTE 100 EB					1
31	MCKNIGHT RD NB LT					1
41	MCKNIGHT RD SB					1
42	MCKNIGHT RD SB					1
51	ROUTE 100 EB LT					1
61	ROUTE 100 WB					1
62	ROUTE 100 WB					1
71	MCKNIGHT RD SB LT					1
81	MCKNIGHT RD NB					1
82	MCKNIGHT RD NB					1
.						
.						
.						
.						
.						
TOTAL		8				

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✟ FULL ADA-COMPLIANT APS PUSH BUTTONS

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	11	21 22	31	41 42	.	.		
	2	51	61 62	71	81 82	.	.		

NOTE: LAND 2C DETECTOR WIRES ON DETECTOR PANEL IN CABINET

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 0 NEW

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
11	21 22	31	41 42	51	61 62	71	81 82	23 24	43 44	63 64	83 84

TOTAL NUMBER OF LOAD SWITCHES = 0 NEW

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/5/2020

ROUTE: 100 | STATE: MO

DISTRICT: SL | SHEET NO.: SG013

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
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.	.
.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TRAFFIC SIGNAL PLANS

ROUTE 100 & MCKNIGHT RD.

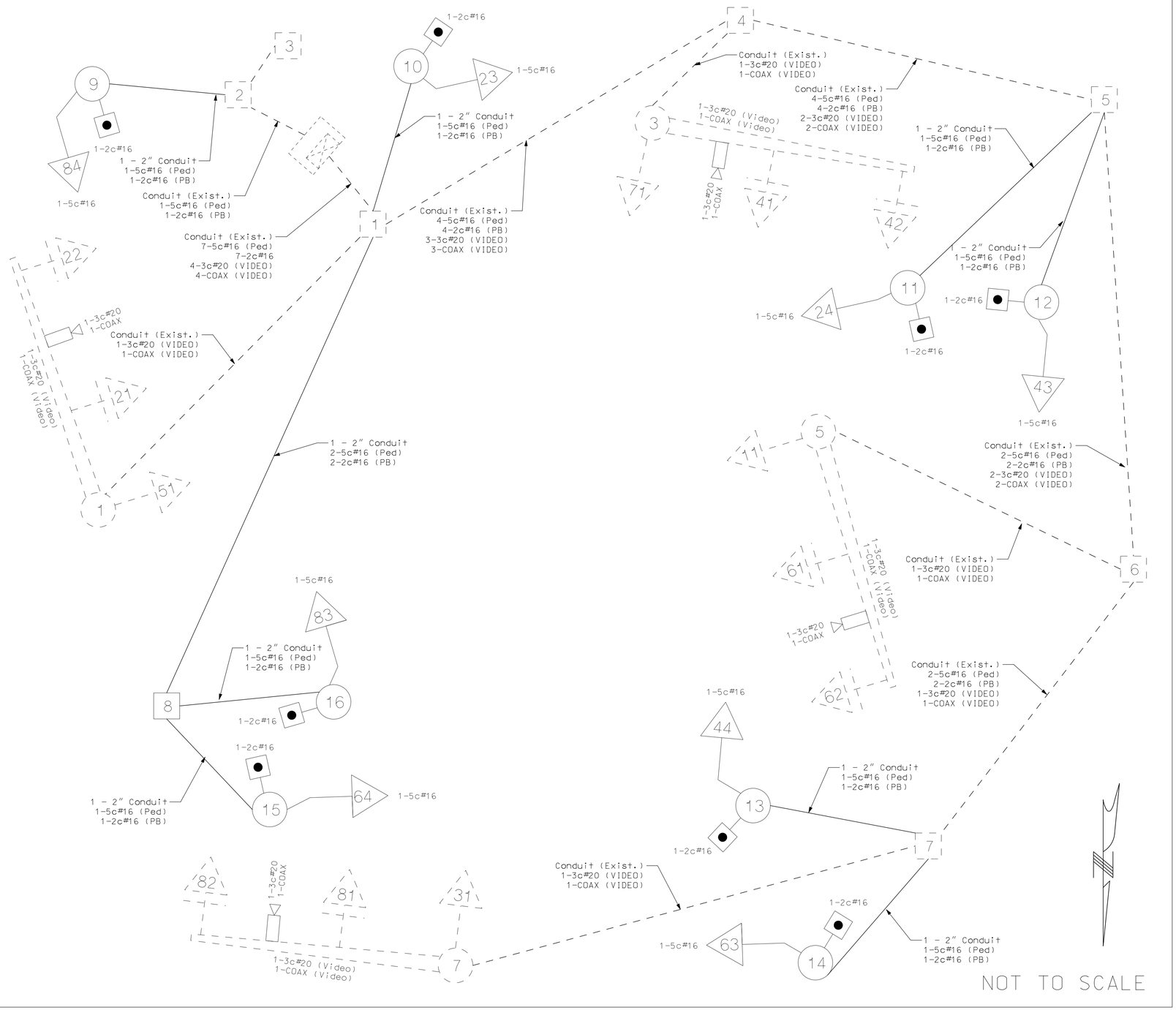
SHEET 13 OF 64

ROUTE 100 & MCKNIGHT RD.

INTERSECTION

D-37C

WIRING DIAGRAM



LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- X-Xc — MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- VIDEO DETECTOR

TRAFFIC SIGNAL PLANS (PROPOSED)
SHEET 14 OF 64

ROUTE 100 & MCKNIGHT RD.

INTERSECTION

D-37D

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
2/5/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG014

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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TRAFFIC SIGNAL PLANS
ROUTE 100 & MCKNIGHT RD.
SHEET 14 OF 64

EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1+5				PHASE 2+6				PHASE 3+7				PHASE 4+8				PHASE	PHASE	PHASE	PHASE	PED Φ 2 OVERLAP	PED Φ 4 OVERLAP	PED Φ 6 OVERLAP	PED Φ 8 OVERLAP		
FACE NUMBERS	11	51			21	61	11	51	31	71			41	81	31	71					23	43	63	83	FACE NUMBERS	
					22	62							42	82							24	44	64	84		
SIGNAL INDICATIONS R	RL	RL			R	R	R	R	RL	RL			R	R	R	R					DW	DW	DW	DW	R	SIGNAL INDICATIONS
SIGNAL INDICATIONS Y	YL	YL			Y	Y	Y	Y	YL	YL			Y	Y	Y	Y					FDW	FDW	FDW	FDW	Y	
SIGNAL INDICATIONS FYA																									FYA	
SIGNAL INDICATIONS G	L	L			G	G	G	G	L	L			G	G	G	G					W	W	W	W	G	
DETECTOR ASSIGNMENTS																									DETECTOR ASSIGNMENTS	
DETECTOR ASSIGNMENTS (PEDS. ONLY)																										
OVERLAP PARENT PHASES																										

PHASE 1	PHASE 2	PHASE 3	PHASE 4
PHASE 5	PHASE 6	PHASE 7	PHASE 8

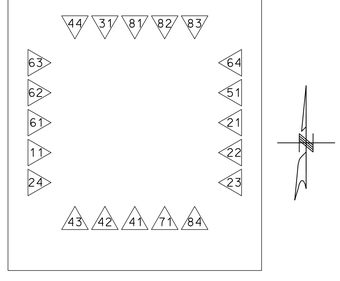
RING 1

RING 2

BARRIER

RING STRUCTURE

SIGNAL FACE LOCATION



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW – FLASHING DON'T WALK
W – WALK
DW – DON'T WALK
R/W – RIGHT OF WAY INTERVAL
YR+ – YELLOW RIGHT ARROW
RT. – GREEN RIGHT ARROW
LY –YL – YELLOW LEFT ARROW
L – GREEN LEFT ARROW
S – GREEN STRAIGHT AHEAD ARROW
G – CIRCULAR GREEN
Y – CIRCULAR YELLOW
R – CIRCULAR RED
RL – RED LEFT ARROW
Ø – TRAFFIC PHASE
AO – ALL OTHERS
FR – FLASHING RED
FY – FLASHING CIRCULAR YELLOW
FYL – FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE 100	FR
MCKNIGHT RD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

ROUTE 100 WITH MCKNIGHT RD.

D-38A

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	SG015

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

ROUTE 100 & MCKNIGHT RD.

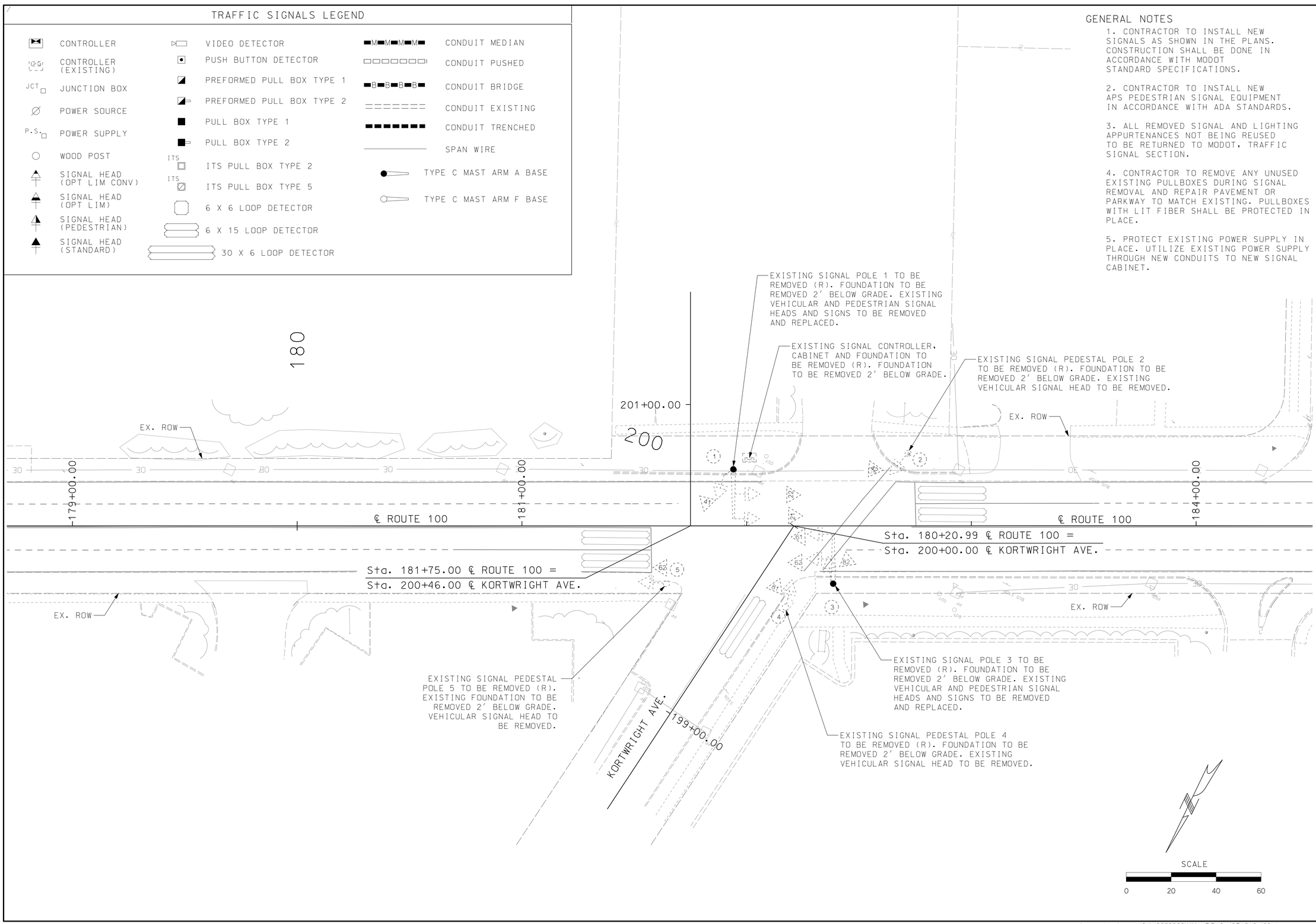
SHEET 15 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.
4. CONTRACTOR TO REMOVE ANY UNUSED EXISTING PULLBOXES DURING SIGNAL REMOVAL AND REPAIR PAVEMENT OR PARKWAY TO MATCH EXISTING. PULLBOXES WITH LIT FIBER SHALL BE PROTECTED IN PLACE.
5. PROTECT EXISTING POWER SUPPLY IN PLACE. UTILIZE EXISTING POWER SUPPLY THROUGH NEW CONDUITS TO NEW SIGNAL CABINET.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/5/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SG016
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

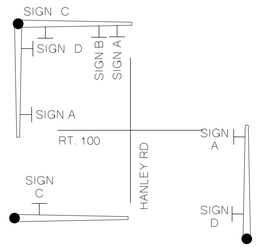
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & KORTWRIGHT AVE.
SHEET 16 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

SIGN LOCATIONS

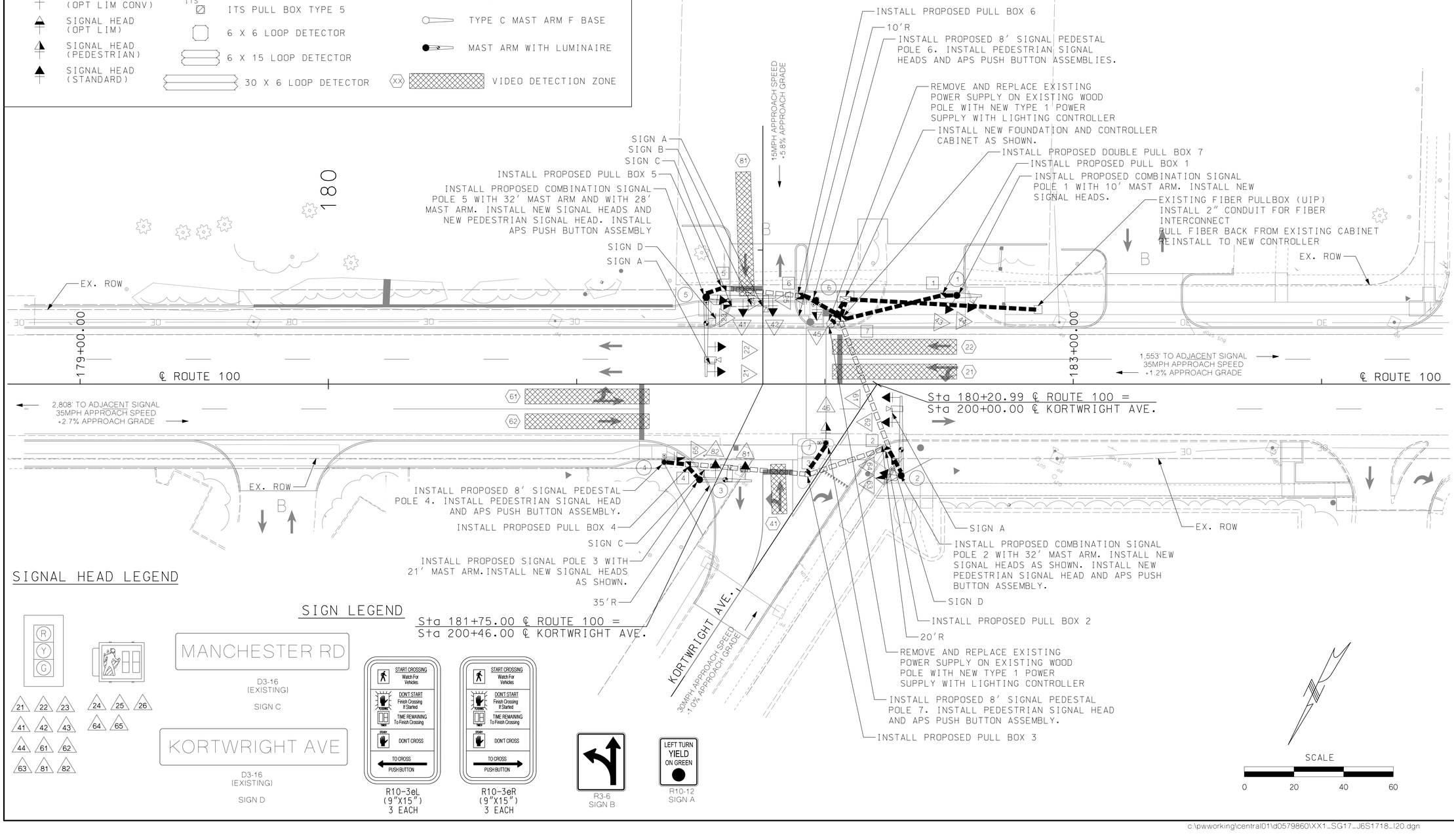


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2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



SIGNAL HEAD LEGEND

SIGN LEGEND

D3-16 (EXISTING)
SIGN C

D3-16 (EXISTING)
SIGN D

R10-3eL (9"X15") 3 EACH

R10-3eR (9"X15") 3 EACH

R3-6 SIGN B

R10-12 SIGN A

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
2/5/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG017

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & KORTWRIGHT AVE.
SHEET 17 OF 64

EFFECTIVE: 10/01/2016

POST

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM** 4 FT. | LUMINAIRE BRACKET ARM** 6 FT. | LUMINAIRE BRACKET ARM** 8 FT. | LUMINAIRE BRACKET ARM** 10 FT. | LUMINAIRE BRACKET ARM** 12 FT. | LUMINAIRE BRACKET ARM** 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1″	2″	3″	4″		2″	3″	4″	2″	3″	4″	2″	3″		
∅	⊠	78′				81′											
FOEX	⊠	7′				10′											
⊠	7	7′				16′											
7	1	42′								40′							
1	1	6′			9′												
6	7	17′				18′											
6	6	7′			10′												
6	5	31′								29′							
5	5	8′			11′												
7	2	56′								54′							
2	2	12′			15′												
2	3	34′								32′							
3	4	48′								46′							
4	3	8′			11′												
4	4	10′			13′												
3	7	15′			18′												
∅	7	5′		8′										5′			
SUBTOTALS				8′	69′	47′				201′				4′			
TOTALS				10′	70′	50′				210′				10′			

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		VIDEO		FIBER		REMARKS
				1c#4 (x3)	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	3c #20	COAX	SINGLE-MODE	MULTI-MODE	
∅	⊠	78′								376′						3-1c
FOEX	⊠	7′														EXISTING FIBER REPULLED
⊠	7	7′			108′	108′	90′					72′	72′			6-2c, 6-5c, 5-7c, 4-3c, 4-COAX, 4-2c
7	1	42′					48′									1-7c
1	1	6′					9′									1-7c
6	7	17′			69′	69′	46′			46′		46′	46′			3-2c, 3-5c, 2-7c, 2-3c, 2-COAX, 2-2c
6	6	7′			20′	20′										2-2c, 2-5c
6	5	31′			37′	37′	74′			74′		37′	37′			1-2c, 1-5c, 2-7c, 2-3c, 2-COAX, 2-2c
5	5	8′			11′	11′	22′			22′		22′	22′			1-2c, 1-5c, 2-7c, 2-3c, 2-COAX, 2-2c
7	2	56′			186′	186′	124′			124′		124′	124′			2-2c, 2-5c, 2-7c, 2-3c, 2-COAX, 2-2c
2	2	12′			15′	15′	15′			15′		15′	15′			1-2c, 1-5c, 1-7c, 1-3c, 1-COAX, 1-2c
2	3	34′			80′	80′	40′			40′		40′	40′			2-2c, 2-5c, 1-7c, 1-3c, 1-COAX, 1-2c
3	4	48′			54′	54′	54′			54′		54′	54′			1-2c, 1-5c, 1-7c, 1-3c, 1-COAX, 1-2c
4	3	8′					11′			11′		11′	11′			1-7c, 1-3c, 1-COAX, 1-2c
4	4	10′			13′	13′										1-2c, 1-5c
3	7	15′			18′	18′										1-2c, 1-5c
∅	7	5′								84′						4-2c
POLE 1							37′									1-7c; 7c Jumper
POLE 2					9′	10′	94′				100′	48′	48′			1-2c; 1-5c; 1-7c; 2-1c; 1-3c; 1-COAX; 7c Jumper
POLE 3							58′				100′	33′	33′			1-7c; 2-1c; 1-3c; 1-COAX; 7c Jumper
POLE 4					9′	10′										1-2c, 1-5c
POLE 5					9′	10′	188′				200′	91′	91′			1-2c; 1-5c; 2-7c; 4-1c; 2-3c; 2-COAX; 7c Jumper
POLE 6					18′	20′										2-2c, 2-5c
POLE 7					9′	10′										1-2c, 1-5c
SUBTOTALS					683′	731′	910′			846′	400′	593′	593′			
TOTALS					690′	740′	910′			850′	400′	600′	600′			

INTERSECTION ROUTE 100 & KORTWRIGHT AVE D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG019

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & KORTWRIGHT AVE.
SHEET 19 OF 64

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EFFECTIVE 04-01-2002

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	182+08	34' LT	Type 1	K	15 Amps	· Amps	40 Amps	· Amps	1	20 Amps	Ci. Ft.	Ameren UE
·	·	·	Type	·	15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✳ SWITCH		COORDINATION INTERFACE ✳						TIME ✳ CLOCK	NEMA CABINET TYPE ✳			170 CABINET TYPE ✳		170 SOFTWARE ✳	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	182+08.33	33' RT	·	·	X	·	X					·	·	X			X		·	·	·	·
·	·	·	·	·	·	·	·					·	·	·					·	·	·	·
·	·	·	·	·	·	·	·					·	·	·					·	·	·	·

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON ✟	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
61	ROUTE 100 WB	·		·	·	1
62	ROUTE 100 WB					1
21	ROUTE 100 EB					1
22	ROUTE 100 EB					1
41	KORTWRIGHT AVE SB					
81	KORTWRIGHT AVE NB					
24P	SOUTH CROSSWALK	1				
25P	SOUTH CROSSWALK	1				
45P	WEST CROSSWALK	1				
46P	WEST CROSSWALK	1				
64P	NORTH CROSSWALK	1				
65P	NORTH CROSSWALK	1				
·						
·						
·						
·						
·						
·						
·						
·						
·						
·						
·						
·						
·						
TOTAL		6				

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✟ FULL ADA-COMPLIANT APS PUSH BUTTONS

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	21 22	41 42						
	2	61 62	81						

NOTE: LAND 2C DETECTOR WIRES ON DETECTOR PANEL IN CABINET

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 2

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
21 22 23	41 42	43 44	61 62 63	81 82					24 25	45 46	64 65

TOTAL NUMBER OF LOAD SWITCHES = 8

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG020

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. ·

PROJECT NO. ·

BRIDGE NO. ·

DESCRIPTION	DATE
·	·
·	·
·	·
·	·
·	·
·	·
·	·
·	·

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
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314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

ROUTE 100 & KORTWRIGHT AVE.

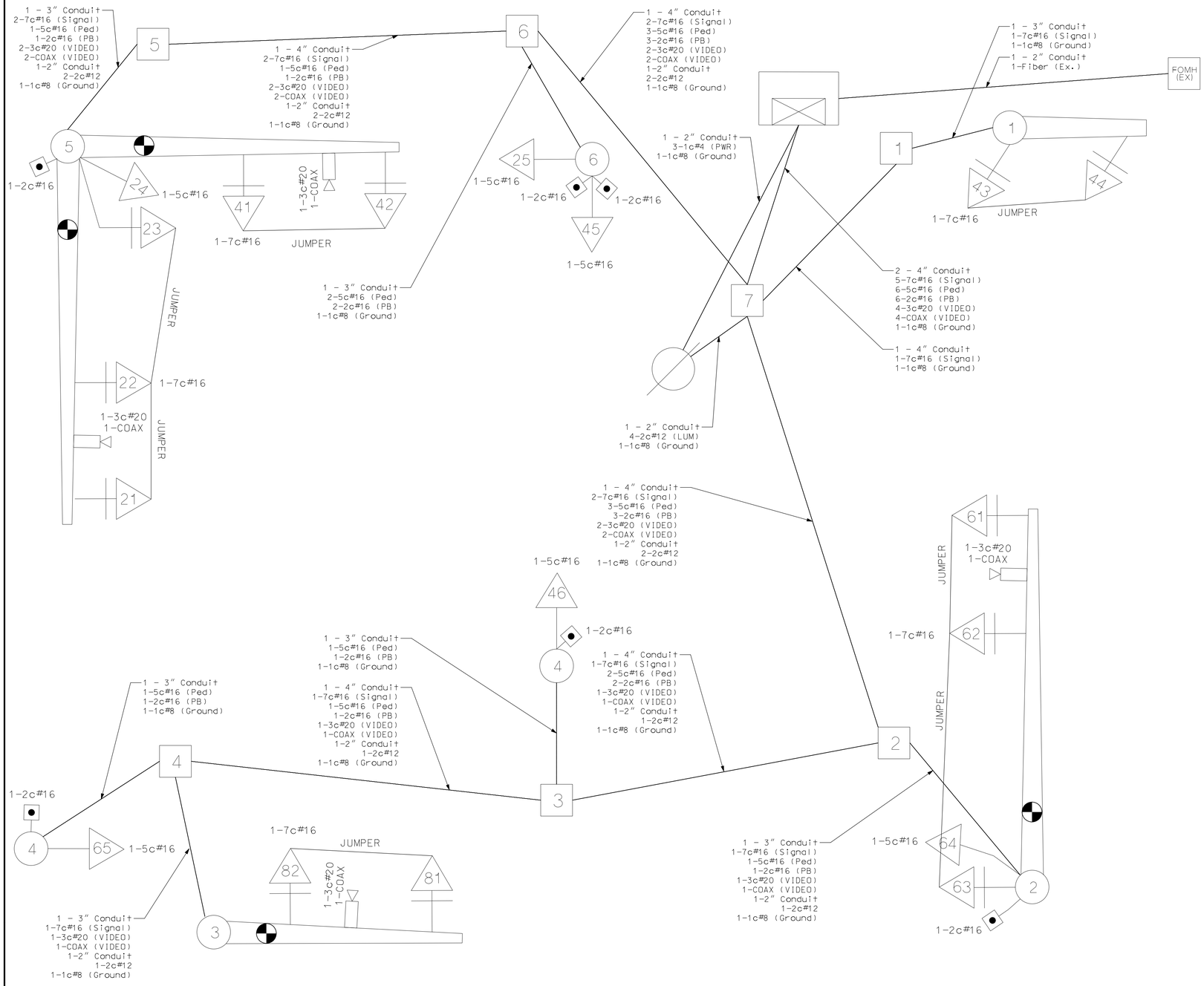
SHEET 20 OF 64

ROUTE 100 & KORTWRIGHT AVE.

INTERSECTION

D-37C

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
	VIDEO DETECTION CAMERA

ROUTE 100 & KORTWRIGHT AVE.

INTERSECTION

D-37D

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG021

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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TRAFFIC SIGNAL PLANS

ROUTE 100 & KORTWRIGHT AVE.

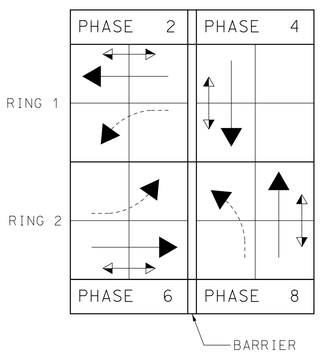
SHEET 21 OF 64

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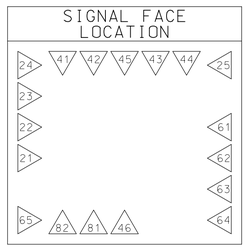
EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

		PHASE 2+6				PHASE 4+8				PHASE	PHASE	PHASE	PHASE	PHASE	PHASE	PED Φ 2 OVERLAP	PED Φ 4 OVERLAP	PED Φ 6 OVERLAP	PED Φ OVERLAP
FACE NUMBERS		21	22	61	62	41	42	81	82							24	45	64	
		23		63		43	44									25	46	65	
SIGNAL INDICATIONS	R	R	R	R	R	R	R	R	R										
	Y	Y	Y	Y	Y	Y	Y	Y	Y										
	G	G	G	G	G	G	G	G	G										
DETECTOR ASSIGNMENTS		11	11	12	12	21	21	22	22										
DETECTOR ASSIGNMENTS (PEDS. ONLY)																			
OVERLAP PARENT PHASES																			



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY — YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
KORTWRIGHT AVE	FR
ROUTE 100	FR
CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION		
INTERSECTION OF		
ROUTE 100	WITH	KORTWRIGHT AVE

D-38E

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. .

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & KORTWRIGHT AVE.
SHEET 22 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.
4. CONTRACTOR TO REMOVE ANY UNUSED EXISTING PULLBOXES DURING SIGNAL REMOVAL AND REPAIR PAVEMENT OR PARKWAY TO MATCH EXISTING. PULLBOXES WITH LIT FIBER SHALL BE PROTECTED IN PLACE.

195

195+00.00

EX. ROW

EXISTING SIGNAL PEDESTAL POLE 1 TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE. EXISTING SIGNAL HEAD 81 TO BE REMOVED.

REMOVE EXISTING DOUBLE PULL BOX (R).

Sta 197+65.15 ℄ ROUTE 100 =
Sta 230+09.00 ℄ BERRY RD.

BERRY RD.

℄ ROUTE 100

230

EXISTING PULLBOX TO BE REMOVED (R).

EXISTING SIGNAL MAST ARM POLE 6 TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE. EXISTING SIGNAL HEADS 21 AND 22 TO BE REMOVED.

REMOVE EXISTING DOUBLE PULL BOX (R).

REMOVE EXISTING CONTROLLER, CABINET, FOUNDATION AND ACCOMPANYING EQUIPMENT (R).

EXISTING PULLBOX TO BE REMOVED (R).

EXISTING LIGHTING POWER SUPPLY TO BE REMOVED (R).

EXISTING LIGHTING POWER SUPPLY TO BE REMOVED (R).

EXISTING SIGNAL PEDESTAL POLE 5 TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE. EXISTING SIGNAL HEAD 41 TO BE REMOVED.

EXISTING SIGNAL PEDESTAL POLE 2 TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE. EXISTING SIGNAL HEAD 82 TO BE REMOVED.

EXISTING SIGNAL MAST ARM POLE 3 TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE. EXISTING SIGNAL HEADS 11, 61 AND 62 TO BE REMOVED.

EXISTING PULLBOX TO BE REMOVED (R).

EX. ROW

199+00.00

℄ ROUTE 100

Sta 117+74.16 ℄ ROUTE 100 =
Sta 230+00.00 ℄ BERRY RD.

EXISTING PULLBOX AND LOOPS TO BE REMOVED (R).

EXISTING UTILITY POLE TO REMAIN (UIP).

EXISTING SIGNAL PEDESTAL POLE 4 TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE. EXISTING SIGNAL HEAD 71 TO BE REMOVED.

EXISTING PULLBOX TO BE REMOVED (R).

BERRY RD.

EX. ROW

SCALE
0 20 40 60

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DATE PREPARED: 2/5/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	SG023

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

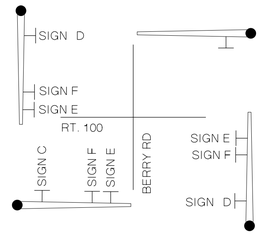
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & BERRY RD.
SHEET 23 OF 64

TRAFFIC SIGNALS LEGEND

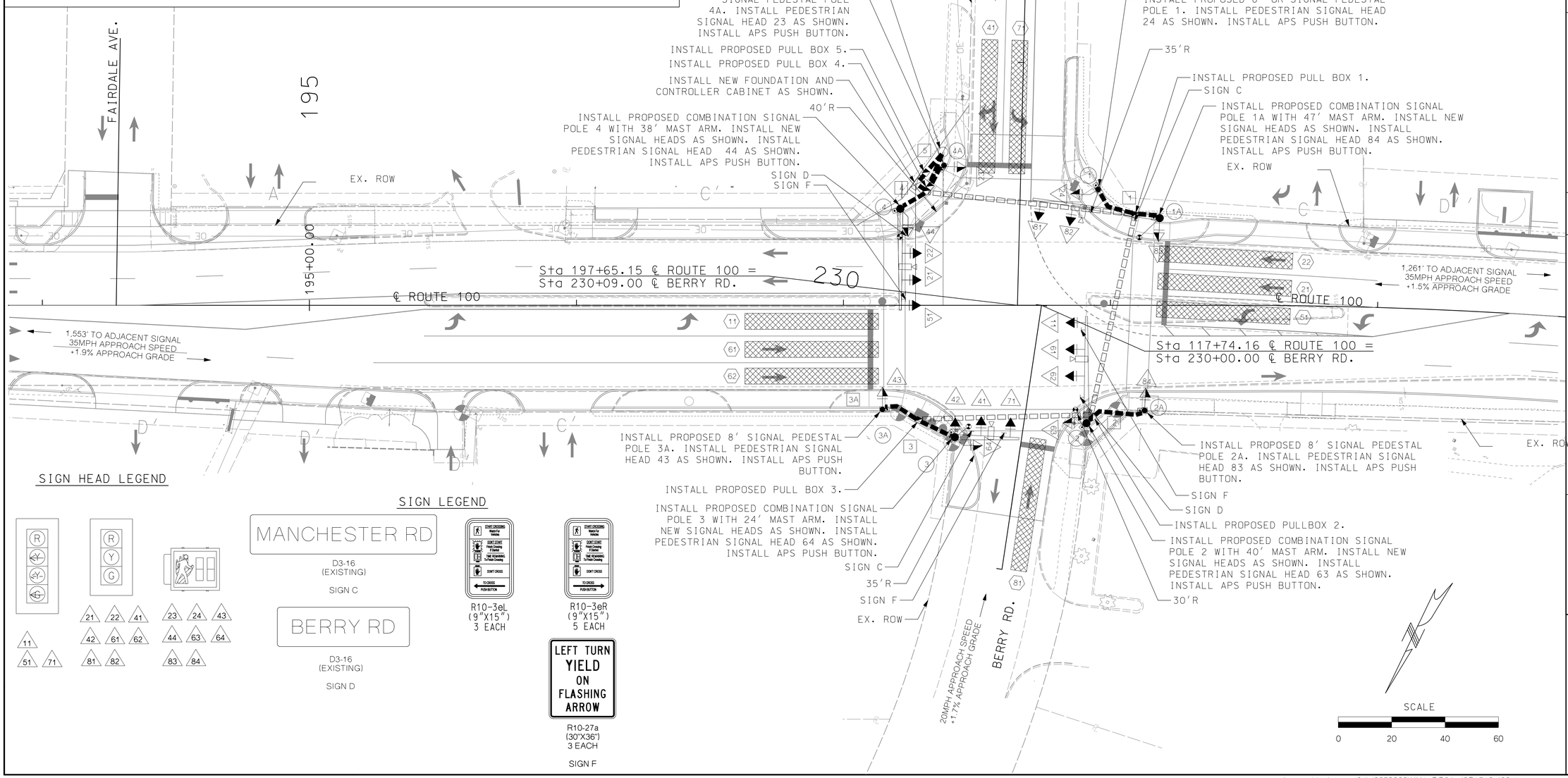
- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

SIGN LOCATIONS



GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



SIGN HEAD LEGEND

SIGN LEGEND

MANCHESTER RD
D3-16
(EXISTING)
SIGN C

BERRY RD
D3-16
(EXISTING)
SIGN D

R10-3eL
(9"X15")
3 EACH

R10-3eR
(9"X15")
5 EACH

LEFT TURN
YIELD
ON
FLASHING
ARROW

R10-27a
(30"X36")
3 EACH

SIGN F

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG024

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & BERRY RD.
SHEET 24 OF 64

c:\pwworking\central01\d0579860\XX1_SG24_J6S1718_I20.dgn 15:17:22 2/5/2020

EFFECTIVE: 10/01/2016

BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE A (9 / 9.5 / 10 / 10.5 / 11 / 12)	BASE F (9 / 9.5 / 10 / 10.5 / 11 / 12)	BASE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 1	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	PULL BOX CONCRETE DOUBLE, TYPE A	PULL BOX CONCRETE DOUBLE, TYPE B	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.	TYPE C & CL ARM LENGTH A	TYPE C & CL SIGNAL SPACING B	TYPE C & CL SIGNAL SPACING C	TYPE C & CL SIGNAL SPACING D	TYPE C & CL SIGN SPACING D'	TYPE B & BL ARM LENGTH E	TYPE B & BL LEFT ARM E SIGNAL SPACING K	TYPE B & BL LEFT ARM E SIGN SPACING E	TYPE B & BL LEFT ARM E SIGN SPACING K	TYPE B & BL LEFT ARM E SIGNAL SPACING F	TYPE B & BL LEFT ARM E SIGN SPACING G	TYPE B & BL LEFT ARM E SIGN SPACING H	TYPE B & BL LEFT ARM E SIGN SPACING H'	TYPE B & BL RIGHT ARM K SIGNAL SPACING L	TYPE B & BL RIGHT ARM K SIGNAL SPACING M	TYPE B & BL RIGHT ARM K SIGNAL SPACING N	TYPE B & BL RIGHT ARM K SIGNAL SPACING N'	TYPE B & BL RIGHT ARM K SIGN SPACING L	TYPE B & BL RIGHT ARM K SIGN SPACING M	TYPE B & BL RIGHT ARM K SIGN SPACING N	TYPE B & BL RIGHT ARM K SIGN SPACING N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	LUMINAIRE BRACKET ARM* 6 FT.	LUMINAIRE BRACKET ARM* 8 FT.	LUMINAIRE BRACKET ARM* 10 FT.	LUMINAIRE BRACKET ARM* 12 FT.	LUMINAIRE BRACKET ARM* 15 FT.
☒		ROUTE 100	197+28	46' LT				1.93												1																											
1		ROUTE 100	197+95	43' LT				0.44												1																											
1A		ROUTE 100	198+18	33' LT		1		3.27														47		31	12																					
2		ROUTE 100	197+91	44' RT		1		3.27															40		17	10	10																			
2A		ROUTE 100	198+13	39' RT			1	0.44												1																											
3		ROUTE 100	197+42	49' RT	1			2.88															24		8	11																				
3A		ROUTE 100	197+15	39' RT			1	0.44												1																											
4		ROUTE 100	197+21	36' LT		1		3.27																38	15	10	10																			
4A		ROUTE 100	197+38	52' LT			1	0.44												1																											
	1	ROUTE 100	198+09	34' LT							1					X																															
	2	ROUTE 100	197+94	42' RT						1						X																														
	3	ROUTE 100	197+28	43' RT						1						X																														
	4	ROUTE 100	197+32	44' LT										1		X																														
	5	ROUTE 100	197+31	50' LT						1						X																														
SUBTOTAL								16.38		3	1			1						4		1	1	1	1																					
TOTAL								16.38		3	1			1						4		1	1	1	1																					

SIGNAL HEADS

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE 150W SODIUM	INDICATIONS * 12" LENS CONVENTIONAL (R Y YL YR† FYL FYR G S L R†)	INDICATIONS * 12" LENS OPTICAL LIMITING (R Y YL YR† YL YR† G S L R†)	VISORS * 12" LENS	VISORS * PED.	LOUVERS * (A B C D E F)	BACKPLATE* LENSES (1 2 3 4 5)	BRACKET* TYPE (I II III)	ONE-FACE SECTION 1- (T S C B)	ONE-FACE SECTION 3- (T S C B)	ONE-FACE SECTION 4- (T S C B)	ONE-FACE SECTION 5- (T S C B)	TWO-FACE SECTIONS 11- (T S B)	TWO-FACE SECTIONS 33- (T S C B)	TWO-FACE SECTIONS 34- (S B)	TWO-FACE SECTIONS 35- (S B)	TWO-FACE SECTIONS 44- (S B)	TWO-FACE SECTIONS 45- (S B)
	1	24			1		1		1		1										
	1A	81	1	1 1		3			1	1		1									
	1A	82		1 1		3			1	1		1									
	1A	84			1		1		1	1											
	2	11	1	1 1		4			1	1			1								
	2	61		1 1		3			1	1		1									
	2	62		1 1		3			1	1		1									
	2	63			1		1		1	1											
	2A	83			1		1		1	1											
	3	42	1	1 1		3			1	1		1									
	3	41		1 1		3			1	1		1									
	3	71		1 1		4			1	1			1								
	3	64			1		1		1	1											
	3A	43			1		1		1	1											
	4	22	1	1 1		3			1	1		1									
	4	21		1 1		3			1	1		1									
	4	51		1 1		4			1	1			1								
	4	44			1		1		1	1											
	4A	23			1		1		1	1											
SUBTOTAL		4																			
TOTAL		4																			
SUBTOTAL OPTICALLY LIMITED																					
SUBTOTAL CONVENTIONAL							8				8			3							
SUBTOTAL COMBINATION OL & CONV																					
TOTAL OPTICALLY LIMITED																					
TOTAL CONVENTIONAL							8				8			3							
TOTAL COMBINATION OL & CONV																					

SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	TOTAL AREA EACH SIGN ITEM NO. 90350.04A	SIGNAL MOUNTING HARDWARE ITEM NO. 90350.73
		INCHES	SQ.FT.	SQ.FT.	EA.
3	R10-27a	30 X 36	5.0	15.0	3
3	R10-3eL	9 x 15	0.9	2.8	3
5	R10-3eR	9 x 15	0.9	4.7	5
2	D3-16	42 X 12	3.5	7.0	2
2	D3-16	60 X 12	5.0	10.0	2
SUBTOTAL			39.5		15
TOTAL			39.5		15

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

TRAFFIC SIGNAL PLANS (PROPOSED)
SHEET 25 OF 64
ROUTE 100 & BERRY RD.
INTERSECTION

LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

D-37A

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. SG025
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & BERRY RD.
SHEET 25 OF 64

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET. 1"	TRENCH 2"	TRENCH 3"	TRENCH 4"	PUSHED 2"	PUSHED 3"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	REMARKS
∅	5	10′		13′									5′		
5	⊠	6′		9′											
∅	4	14′		17′											
1	1	18′			21′										
1	1A	10′		13′	13′										
1	2	78′					76′		152′						2 RUNS
2	2	4′		7′	7′										
2	2A	17′			20′										
2	3	66′					64′		64′						
3	3	15′		18′	18′										
3	3A	15′			18′										
⊠	4	5′		8′	8′										
4	4	12′		15′	15′										
4	4A	10′			13′										
4	1	79′					77′		154′						2 RUNS
SUBTOTALS				100′	133′			217′		370′				5′	
TOTALS				100′	140′			220′		370′				10′	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c #4	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL 3c #16	CLOSED LOOP INTERCONNECT 3 PAIR #16	LUMINAIRE CONTROL 2c #12	LUMINAIRE POLE & BRACKET 1c #10	DETECTOR 3c #20	DETECTOR COAX	FIBER SINGLE-MODE	FIBER MULTI-MODE	REMARKS
∅	5	10′	63′												3 RUNS
5	⊠	6′	51′												3 RUNS
∅	4	14′							100′						4 RUNS
1	1	18′		21′	10′										1-5c, 1-2c
1	1A	10′		13′	13′	13′			13′		13′	13′			1-7c, 1-5c, 1-2c
1	2	78′		336′	336′	336′			168′		168′	168′			4-7c, 4-5c, 4-2c, 2-2c#12, 2-3c, 2-COAX
2	2	4′		7′	7′	14′			7′		7′	7′			2-7c, 1-5c, 1-2c, 1-2c#12, 1-3c, 1-COAX
2	2A	17′		20′	8′										1-5c, 1-2c
2	3	66′		144′	144′	144′			72′		72′	72′			2-7c, 2-5c, 2-2c, 1-2c#12, 1-3c, 1-COAX
3	3	15′		18′	18′	36′			18′		18′	18′			2-7c, 1-5c, 1-2c, 1-2c#12, 1-3c, 1-COAX
3	3A	15′		18′	12′										1-5c, 1-2c
⊠	4	5′		128′	128′	112′					64′	64′			7-7c, 8-5c, 8-2c, 4-2c#12, 4-3c, 4-COAX
4	4	12′		15′	15′	30′			15′		15′	15′			2-7c, 1-5c, 1-2c, 1-2c#12, 1-3c, 1-COAX
4	4A	10′		13′	13′										1-5c, 1-2c
4	1	79′		510′	510′	425′			255′		255′	255′			5-7c, 6-5c, 6-2c, 3-2c#12, 3-3c, 3-COAX
POLE 1				9′	10′										1-5c; 1-2c
POLE 1A				9′	10′	94′				100′	34′	34′			1-7c; 1-5c; 1-2c; 2-1c#10; 1-3c; 1-COAX; 7c Jumper
POLE 2				9′	10′	136′				100′	38′	38′			2-7c; 1-5c; 1-2c; 2-1c#10; 1-3c; 1-COAX; 7c Jumper
POLE 2A				9′	10′										1-5c; 1-2c
POLE 3				9′	10′	114′				100′	38′	38′			2-7c; 1-5c; 1-2c; 2-1c#10; 1-3c; 1-COAX; 7c Jumper
POLE 3A				9′	10′										1-5c; 1-2c
POLE 4				9′	10′	131′				100′	34′	34′			2-7c; 1-5c; 1-2c; 2-1c#10; 1-3c; 1-COAX; 7c Jumper
POLE 4A				9′	10′										1-5c; 1-2c
SUBTOTALS			114′	1,315′	1,323′	1,585′			648′	400′	785′	785′			
TOTALS			120′	1,320′	1,330′	1,590′			650′	400′	790′	790′			

INTERSECTION ROUTE 100 & BERRY RD.

D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG026

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & BERRY RD.
SHEET 26 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 04-01-2002

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
ROUTE 100	197+27.46	45.47' LT	Type 2	K	15 Amps	40 Amps	50 Amps	- Amps	1	20 Amps	Cl. Ft.	Ameren UE
-	-	-	Type	-	15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	197+27.46	46' LT			1		1							1			1					
-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11	ROUTE 100	-	-	-	-	1
21	BERRY RD					1
22	ROUTE 100					1
41	BERRY RD					1
51	ROUTE 100					1
61	ROUTE 100					1
62	BERRY RD					1
81	BERRY RD					1
63P	NORTH CROSSWALK	1				
64P	NORTH CROSSWALK	1				
83P	WEST CROSSWALK	1				
84P	WEST CROSSWALK	1				
23P	SOUTH CROSSWALK	1				
24P	SOUTH CROSSWALK	1				
43P	EAST CROSSWALK	1				
44P	EAST CROSSWALK	1				
-						
-						
-						
-						
-						
-						
-						
TOTAL		8				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	11	21 22	41	-	-	-	-	-
	2	51	61 62	81	-	-	-	-	-

NOTE: LAND 2C DETECTOR WIRES ON DETECTOR PANEL IN CABINET

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 3 (3)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
21 22	51	41 42	71	61 62	11	81 82		23 24	43 44	63 64	83 84

TOTAL NUMBER OF LOAD SWITCHES = 11

ROUTE 100 & BERRY RD

INTERSECTION

D-37C

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG027

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. -

PROJECT NO. -

BRIDGE NO. -

DESCRIPTION	DATE
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

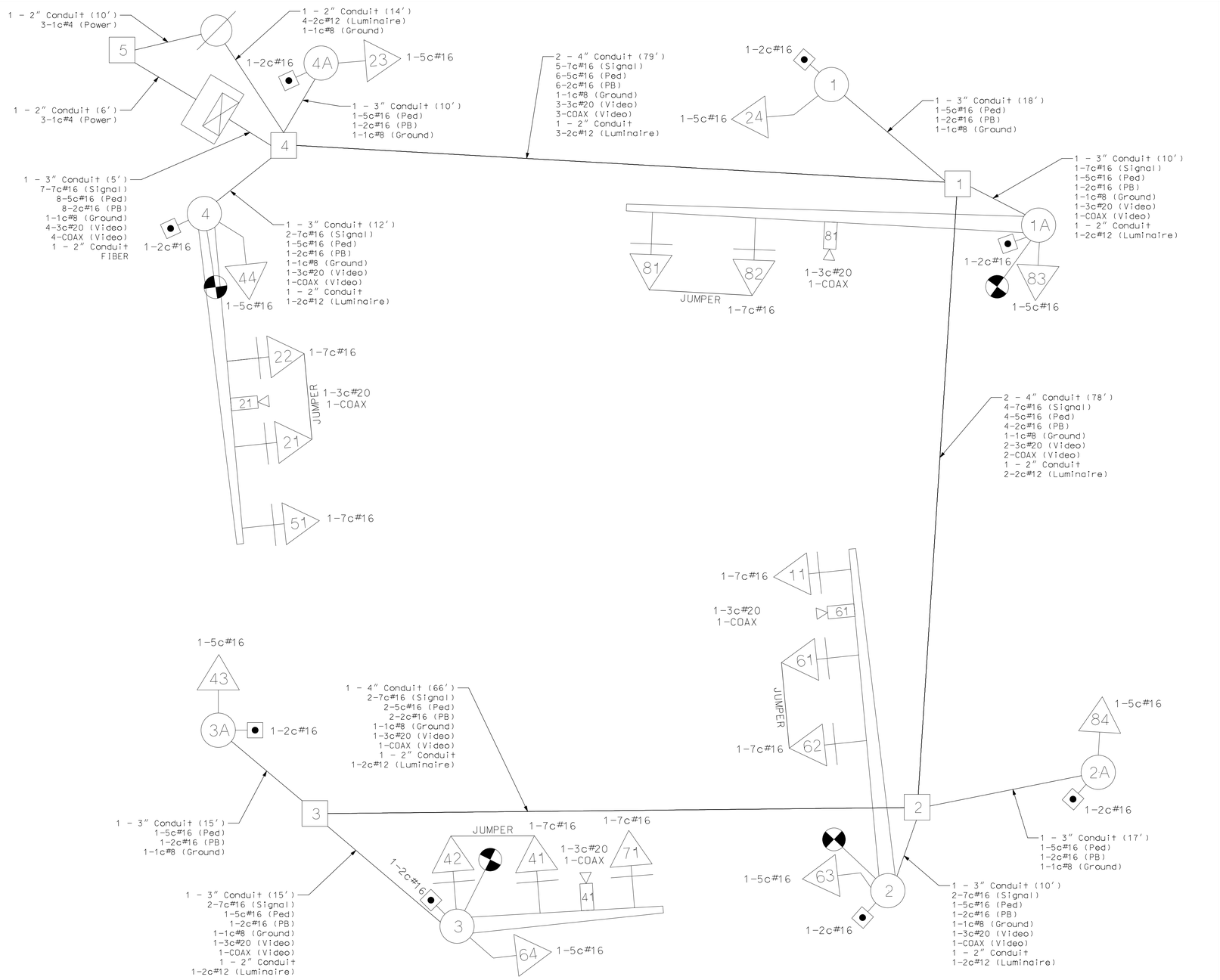
TRAFFIC SIGNAL PLANS

ROUTE 100 & BERRY RD.

SHEET 27 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

WIRING DIAGRAM



LEGEND

- 3" CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER
- VIDEO DETECTION CAMERA

ROUTE 100 & BERRY RD.

INTERSECTION

D-37D

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG028

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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St. Louis, MO 63103-2267
314-425-8300
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TRAFFIC SIGNAL PLANS
ROUTE 100 & BERRY RD.
SHEET 28 OF 64

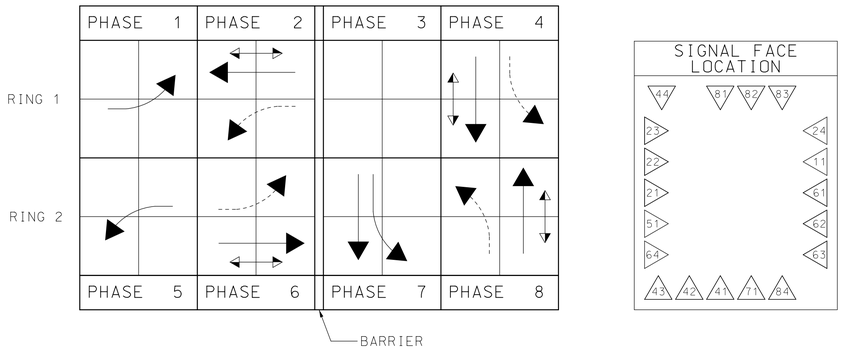
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 09/08/2009

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1+5				PHASE 2+6				PHASE 7			PHASE 4+8				PHASE	PHASE	PHASE	PHASE	PED Φ 2 OVERLAP	PED Φ 4 OVERLAP	PED Φ 6 OVERLAP	PED Φ 8 OVERLAP
FACE NUMBERS	11	51			21	61	11	51	41	71		41	71	81						23	43	63	83
					22	62			42			42		82						24	44	64	84
SIGNAL INDICATIONS R	R	R			R	R	R	R	R	R		R	R	R						DW	DW	DW	DW
SIGNAL INDICATIONS Y	Y	Y			Y	Y	Y	Y	Y	Y		Y	Y	Y						FDW	FDW	FDW	FDW
SIGNAL INDICATIONS FYA							FYA	FYA					FYA										
SIGNAL INDICATIONS G	G	G			G	G			G	G		G		G						W	W	W	W
DETECTOR ASSIGNMENTS																							
DETECTOR ASSIGNMENTS (PEDS. ONLY)																							
OVERLAP PARENT PHASES																							



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
BERRY RD	FR
ROUTE 100	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

ROUTE 100 WITH BERRY RD

D-38

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG029

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
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St. Louis, MO 63103-2267
314-425-8300
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TRAFFIC SIGNAL PLANS
ROUTE 100 & BERRY RD.
SHEET 29 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE

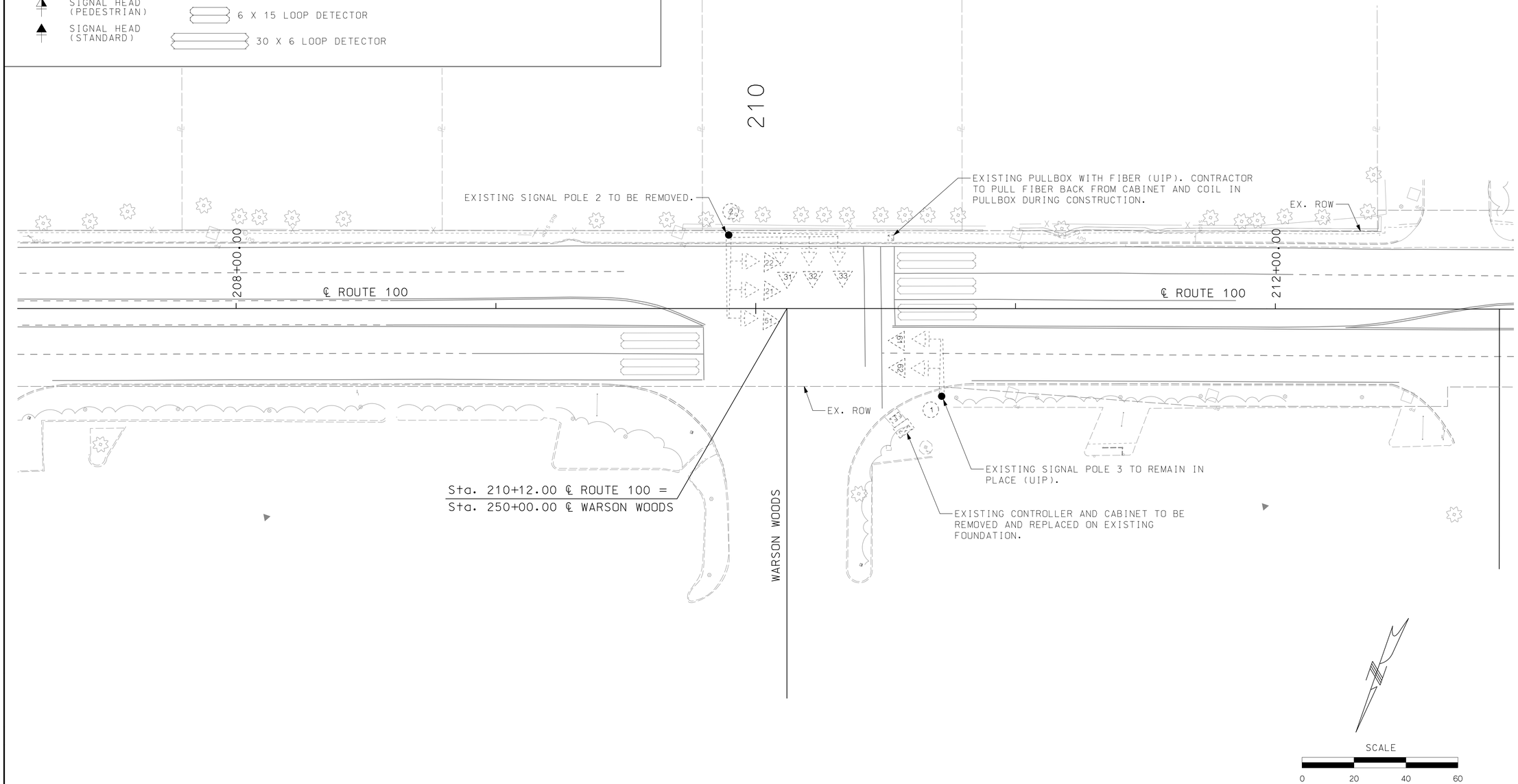
GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.

4. CONTRACTOR TO REMOVE ANY UNUSED EXISTING PULLBOXES DURING SIGNAL REMOVAL AND REPAIR PAVEMENT OR PRAKWAY TO MATCH EXISTING. PULLBOXES WITH LIT FIBER SHALL BE PROTECTED IN PLACE.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/5/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SG030
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

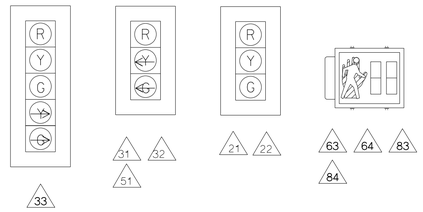
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & WARSON WOODS
SHEET 30 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

SIGNAL HEAD LEGEND

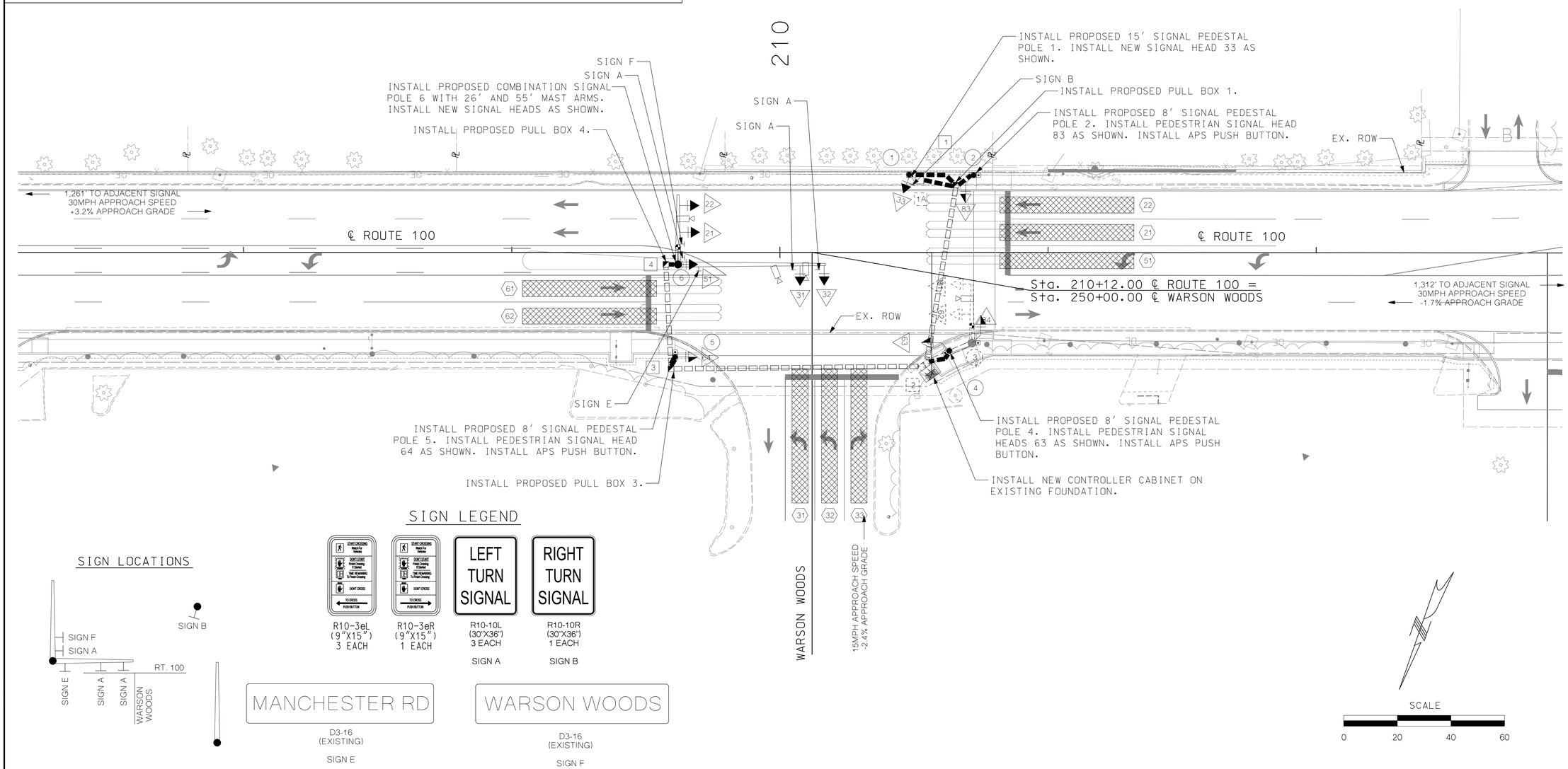


GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



SIGN LEGEND

R10-3eL (9"X15") 3 EACH

R10-3eR (9"X15") 1 EACH

R10-10L (30"X36") 3 EACH
SIGN A

R10-10R (30"X36") 1 EACH
SIGN B

SIGN LOCATIONS

MANCHESTER RD
D3-16 (EXISTING)
SIGN E

WARSON WOODS
D3-16 (EXISTING)
SIGN F

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG031

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
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314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & WARSON WOODS
SHEET 31 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE: 10/01/2016

POST

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A: 9 | A: 9.5 | A: 10 | A: 10.5 | A: 11 | A: 12 | F: 9 | F: 9.5 | F: 10 | F: 10.5 | F: 11 | F: 12 | BASE: C | BASE: CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED: CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE: STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II: A | B | C | TOP MOUNT POST: 8 FT. | 15 FT. | TYPE C & CL: ARM LENGTH: A | A | A | A | SIGNAL SPACING: B | C | D | D' | SIGN SPACING: B | C | D | D' | TYPE B & BL: ARM LENGTH: E | K | E | K | E | K | LEFT ARM E: SIGNAL SPACING: F | G | H | H' | SIGN SPACING: F | G | H | H' | RIGHT ARM K: SIGNAL SPACING: L | M | N | N' | SIGN SPACING: L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM*: 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
1	1	16′			19′												
1	2	6′			9′												
2	1	65′				63′											
2	3	17′			EX.												
2	4	8′			11′												
4	6	5′		8′	8′												
3	4	37′		35′		35′											
3	5	3′			6′												
2	3	91′		89′		89′											
⊠	2	5′		EX.		EX.											
1A	1	14′		12′													

EFFECTIVE 04-01-2002

POWER SUPPLY - EXISTING

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
ROUTE 100	211+76.03	32.61' RT	Ex.	-	15 Amps	- Amps	- Amps	- Amps		Amps	Cl. Ft.	
-	-	-	Type	-	15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	210+56.64	45.65' RT	-	-	EX	-											EX					
-	-	-	-	-	-	-																
-	-	-	-	-	-	-																
-	-	-	-	-	-	-																

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
21	ROUTE 100 EB	-	-	-	-	1
22	ROUTE 100 EB					1
31	WARSON WOODS SB RT					1
32	WARSON WOODS SB RT					1
33	WARSON WOODS SB LT					1
61	ROUTE 100 WB					1
62	ROUTE 100 WB					1
63P	NORTH CROSSWALK	1				
64P	NORTH CROSSWALK	1				
83P	WEST CROSSWALK	1				
84P	WEST CROSSWALK	1				
TOTAL		4				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	21 22	31 32	51	-	-	-	-	-
	2	61 62	33	-	-	-	-	-	-

Note: Land 2C Detector Wires on Detector Panel in Cabinet

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 3 (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
21 22	51	31 32	33	61 62						63 64	83 84

TOTAL NUMBER OF LOAD SWITCHES = 7

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/5/2020

ROUTE: 100 | STATE: MO

DISTRICT: SL | SHEET NO.: SG034

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.: -

PROJECT NO.: -

BRIDGE NO.: -

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

ROUTE 100 & WARSON WOODS

SHEET 34 OF 64

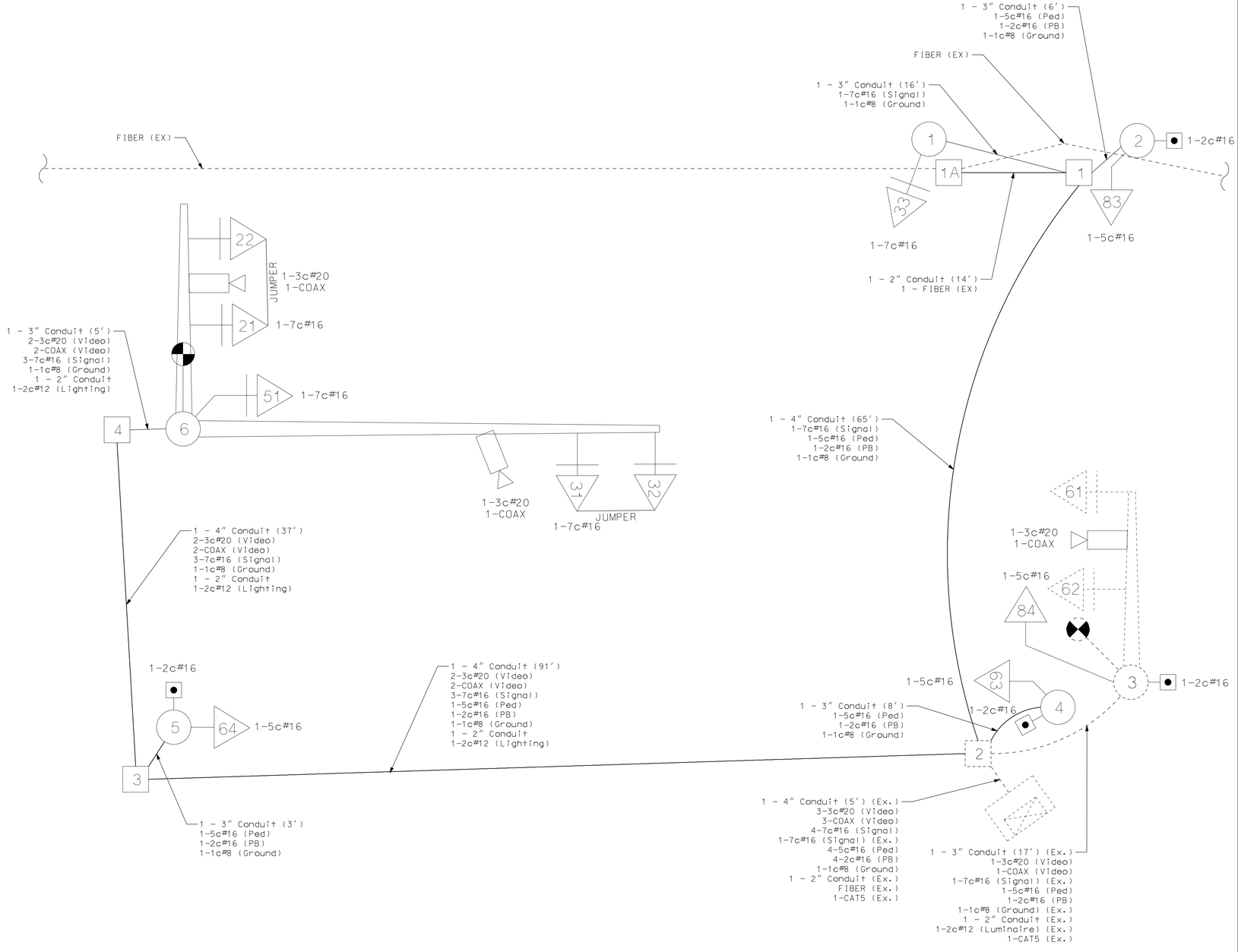
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

ROUTE 100 & WARSON WOODS

INTERSECTION

D-37C

WIRING DIAGRAM



LEGEND

- 3" —— CONDUIT CONTAINING CABLE WITH SIZE
- —— CABLE
- X-Xc MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- X PULL BOX WITH NUMBER
- X POST WITH NUMBER
- X POST WITH MAST ARM
- X POST WITH MAST ARM AND LUMINAIRE
- X DETECTOR WITH NUMBER
- X SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER
- VIDEO DETECTION CAMERA

ROUTE 100 & WARSON WOODS

INTERSECTION

D-37D

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG035

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & WARSON WOODS
SHEET 35 OF 64

EFFECTIVE 09/08/2009

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

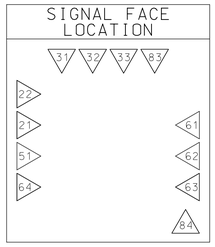
	PHASE 1	PHASE 2+6	PHASE 3	PHASE	PHASE	PHASE	PHASE	PHASE	PED Φ 6 OVERLAP	PED Φ 8 OVERLAP Φ 3	PED Φ OVERLAP	PED Φ OVERLAP
FACE NUMBERS	51	21 22	61 62 63	51	31 32	33			63 64	83 84		
SIGNAL INDICATIONS R	R	R	R	R	R	R			DW	DW		
SIGNAL INDICATIONS Y	Y	Y	Y	Y	Y	Y			FDW	FDW		
SIGNAL INDICATIONS FYA			FYA									
SIGNAL INDICATIONS G	G	G	G		G	G			W	W		
DETECTOR ASSIGNMENTS												
DETECTOR ASSIGNMENTS (PEDS. ONLY)									63 64	83 84		
OVERLAP PARENT PHASES												

	PHASE 1	PHASE 2	PHASE 3	PHASE 4
RING 1				
RING 2				
	PHASE 5	PHASE 6	PHASE 7	PHASE 8

BARRIER

RING STRUCTURE

SIGNAL FACE LOCATION



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ——▶ — ACTUATED VEHICULAR MOVEMENT
- - - -▶ — PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ——▷ — NON-ACTUATED VEHICULAR MOVEMENT
- - - -▷ — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ——▶ — ACTUATED PEDESTRIAN MOVEMENT
- ——▷ — NON-ACTUATED PEDESTRIAN MOVEMENT
- —⊣ — VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
WOODLAWN AVE	FR
ROUTE 100	FY

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

ROUTE 100 WITH WARSON WOODS

D-38

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG036

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TRAFFIC SIGNAL PLANS

ROUTE 100 & WARSON WOODS

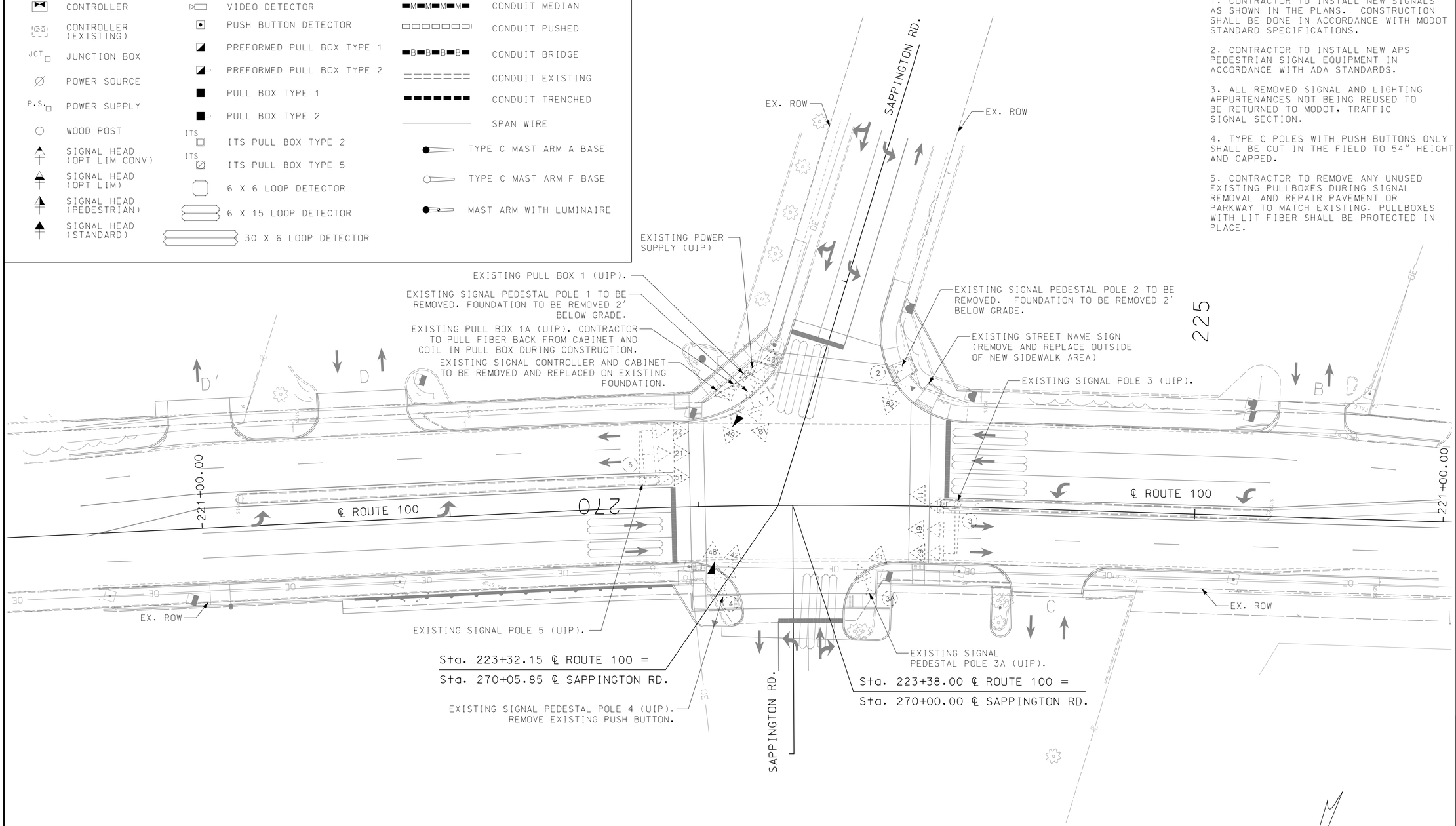
SHEET 36 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.
4. TYPE C POLES WITH PUSH BUTTONS ONLY SHALL BE CUT IN THE FIELD TO 54" HEIGHT AND CAPPED.
5. CONTRACTOR TO REMOVE ANY UNUSED EXISTING PULLBOXES DURING SIGNAL REMOVAL AND REPAIR PAVEMENT OR PARKWAY TO MATCH EXISTING. PULLBOXES WITH LIT FIBER SHALL BE PROTECTED IN PLACE.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/5/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SG037
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

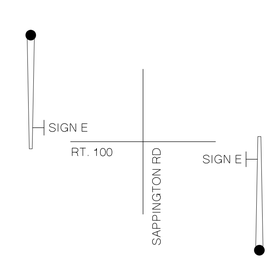
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TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & SAPPINGTON RD.
SHEET 37 OF 64

TRAFFIC SIGNALS LEGEND

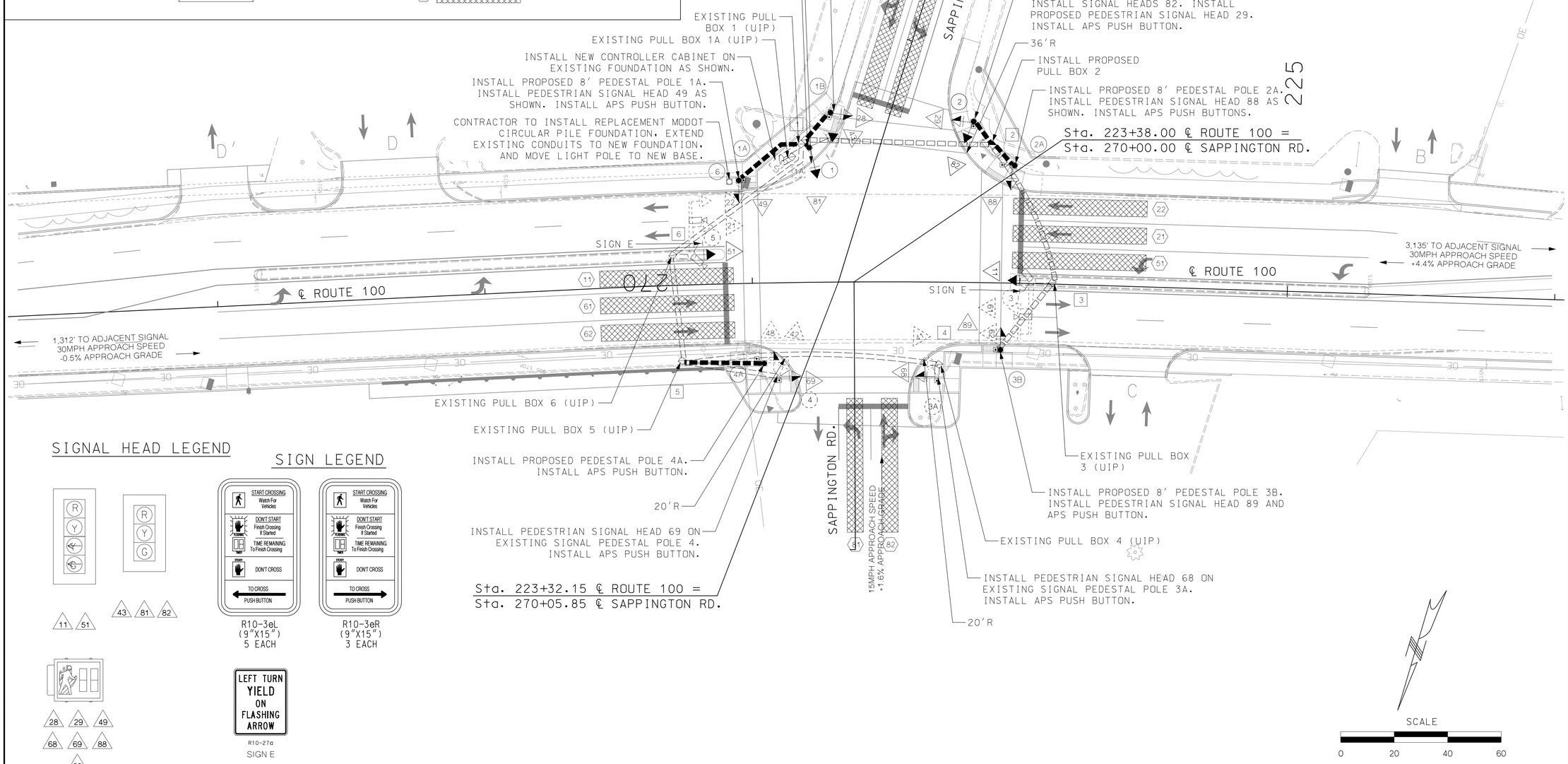
- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

SIGN LOCATIONS



GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.
4. TYPE C POLES WITH PUSH BUTTONS ONLY SHALL BE CUT IN THE FIELD TO 54" HEIGHT AND CAPPED.



SIGNAL HEAD LEGEND

SIGN LEGEND

R10-3eL (9"X15") 5 EACH

R10-3eR (9"X15") 3 EACH

R10-27a
SIGN E

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DATE PREPARED	
2/5/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG038

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & SAPPINGTON RD.
SHEET 38 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE: 10/01/2016

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1″	2″	3″	4″		2″	3″	4″	2″	3″	4″	2″	3″		
☒	1	5															EXISTING
1	1	7			13′												
1	1a	22			28′												
1	1b	22			28′												
1	2	79								83′							
2	2	12			18′												
2	2a	12			18′												
2	3	58								62′							
3	3																EXISTING
3	3b	32							38′								
1	6																EXISTING
6	5																EXISTING
6	5																EXISTING
5	4																EXISTING
5	4A	31			37′												
5	4																EXISTING
4	3a																EXISTING
☒	1A	4′															EXISTING
SUBTOTALS				142′				38′	145′								
TOTALS				150′				40′	150′								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	3c #20	COAX	SINGLE-MODE	MULTI-MODE	
☒	1	5			128′	128′	80′					64′	64′			5-7c, 8-5c, 8-2c, 4-3c, 4-COAX
1	1	7					20′									2-7c
1	1a	22			25′	25′										1-5c, 1-2c
1	1b	22			25′	25′										1-5c, 1-2c
1	2	79			255′	255′	255′					170′	170′			3-7c, 3-5c, 3-2c, 2-3c, 2-COAX
2	2	12			15′	15′	15′									1-7c, 1-5c, 1-2c
2	2a	12			15′	15′										1-5c, 1-2c
2	3	58			64′	64′	128′					128′	128′			2-7c, 1-5c, 1-2c, 2-3c, 2-COAX
3	3	8					22′					22′	22′			2-7c, 2-3c, 2-COAX
3	3b	32			35′	35′										1-5c, 1-2c
1	6	58			192′	192′						128′	128′			3-5c, 3-2c, 2-3c, 2-COAX
6	5	7										20′	20′			2-3c, 2-COAX
6	5	39			135′	135′										3-5c, 3-2c
5	4	37			40′	80′										2-5c, 1-2c
5	4a	31			34′											1-2c
5	4	96			102′	102′										1-5c, 1-2c
4	3a	5			8′	8′										1-5c, 1-2c
☒	1A	4′												EX.		FIBER (EX.)
	POLE 1						26′									2-7c
	POLE 1A				9′	10′										1-5c, 1-2c
	POLE 1B				9′	10′										1-5c, 1-2c
	POLE 2				9′	10′	13′									1-7c, 1-5c, 1-2c
	POLE 2A				9′	10′										1-5c, 1-2c
	POLE 3						63′					56′	56′			2-7c, 2-3c, 2-COAX; 7c-Jumper
	POLE 3A				9′	10′										1-5c, 1-2c
	POLE 3B				9′	10′										1-5c, 1-2c
	POLE 4				9′	20′										1-5c, 1-2c
	POLE 4A				9′											1-2c
	POLE 5											55′	55′			2-3c, 2-COAX
SUBTOTALS					1145′	1199′	622′					734′	734′			
TOTALS					1150′	1200′	630′					740′	740′			

INTERSECTION ROUTE 100 & SAPPINGTON RD.

D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG040

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & SAPPINGTON RD.
SHEET 40 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 04-01-2002

POWER SUPPLY - EXISTING

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	223+11.45	43'LT	Type 1	.	15 Amps	. Amps	. Amps	. Amps		Amps	Ci. Ft.	Ameren UE
.	.	.	Type	.	15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	223+11.45	43'LT	.	.	1	.	1							1			1					
.	.	.	.	.	.	.	.							.								
.	.	.	.	.	.	.	.							.								
.	.	.	.	.	.	.	.							.								

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11	ROUTE 100 WB	.	.	.	.	1
21	ROUTE 100 EB					1
22	ROUTE 100 EB					1
28P	SOUTH CROSSWALK	1				
29P	SOUTH CROSSWALK	1				
41	SAPPINGTON NB					1
42	SAPPINGTON NB					1
48P	EAST CROSSWALK	1				
49P	EAST CROSSWALK	1				
51	ROUTE 100 EB					1
61	ROUTE 100 WB					1
62	ROUTE 100 WB					1
68P	NORTH CROSSWALK	1				
69P	NORTH CROSSWALK	1				
81	SAPPINGTON SB					1
82	SAPPINGTON SB					1
88P	WEST CROSSWALK	1				
89P	WEST CROSSWALK	1				
.						
.						
.						
.						
.						
.						
.						
TOTAL		8				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	11	21 22	31	41	.	.	.	.
	2	51	61 62	71	81	.	.	.	.

Note: Land 2C Detector Wires on Detector Panel in Cabinet

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 0 NEW (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
11	21 22		41 42	51	61 62		81 82	28 29	48 49	68 69	88 89

Note: Run FYA Phases 1 and 5 off of Amber Output on Load Switches 9 and 11.

TOTAL NUMBER OF LOAD SWITCHES = 4 NEW

ROUTE 100 & SAPPINGTON RD.

INTERSECTION

D-37C

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DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG041

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

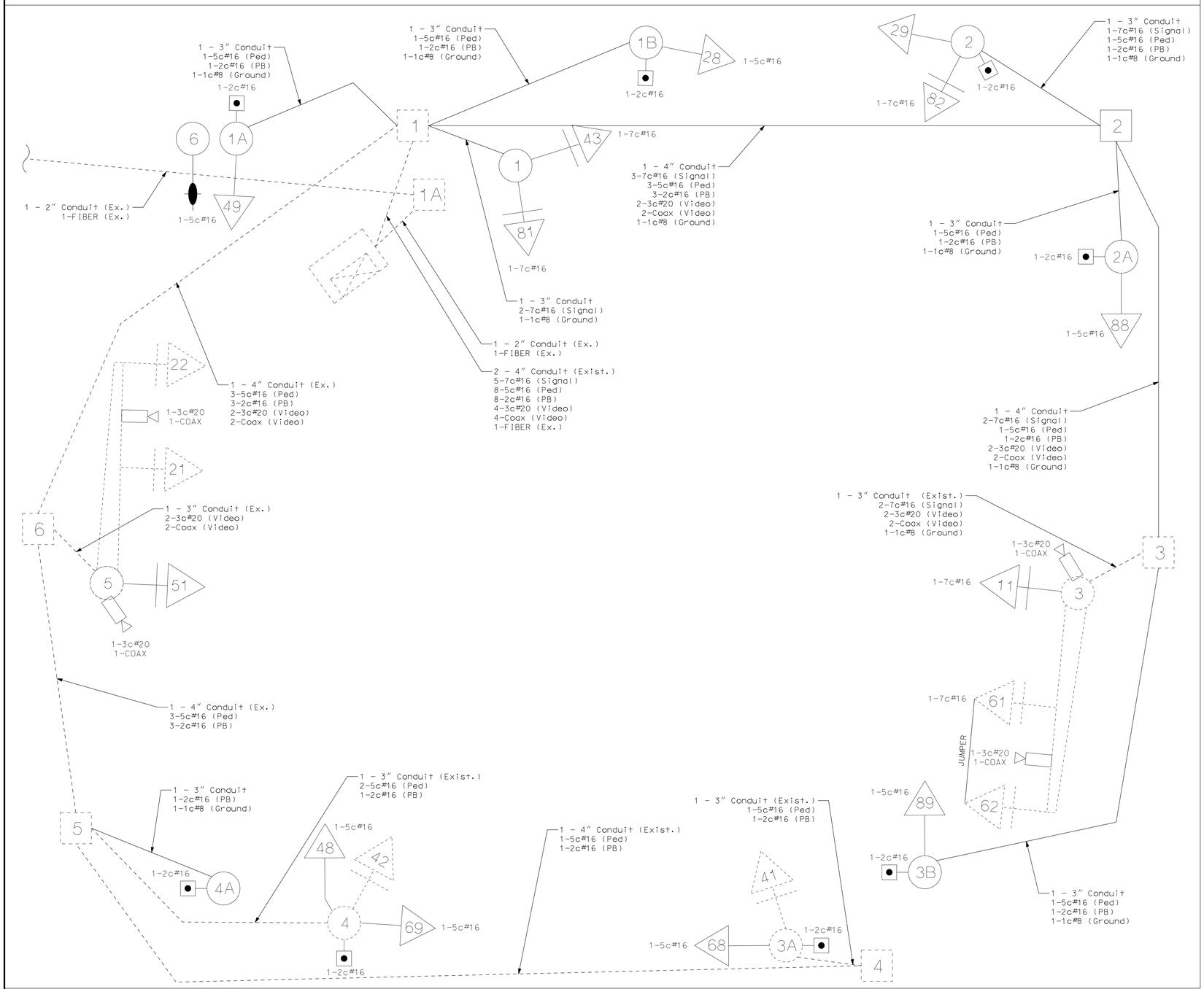
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TRAFFIC SIGNAL PLANS
ROUTE 100 & SAPPINGTON RD.
SHEET 41 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

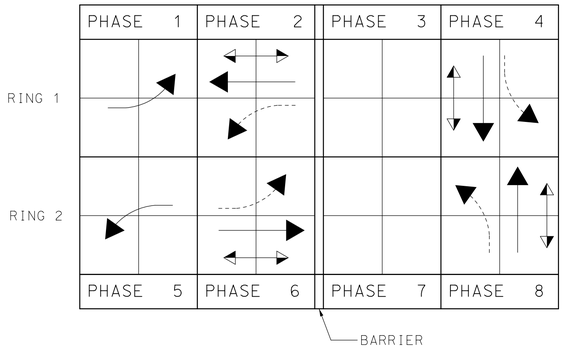
WIRING DIAGRAM


1 - 3" Conduit
1-5c#16 (Ped)
1-2c#16 (PB)
1-1c#8 (Ground)
1-2c#16
1 - 2" Conduit (Ex.)
1-FIBER (Ex.)
1-5c#16
1 - 3" Conduit
1-5c#16 (Ped)
1-2c#16 (PB)
1-1c#8 (Ground)
1-5c#16
1-2c#16
1-7c#16
1 - 4" Conduit
3-7c#16 (Signal)
3-5c#16 (Ped)
3-2c#16 (PB)
2-3c#20 (Video)
2-Coax (Video)
1-1c#8 (Ground)
1-7c#16
1 - 3" Conduit
2-7c#16 (Signal)
1-1c#8 (Ground)
1 - 2" Conduit (Ex.)
1-FIBER (Ex.)
2 - 4" Conduit (Exist.)
5-7c#16 (Signal)
8-5c#16 (Ped)
8-2c#16 (PB)
4-3c#20 (Video)
4-Coax (Video)
1-FIBER (Ex.)
1 - 3" Conduit
1-7c#16 (Signal)
1-5c#16 (Ped)
1-2c#16 (PB)
1-1c#8 (Ground)
1-2c#16
1-5c#16
1 - 3" Conduit
1-5c#16 (Ped)
1-2c#16 (PB)
1-1c#8 (Ground)
1-2c#16
1-5c#16
1 - 4" Conduit (Ex.)
3-5c#16 (Ped)
3-2c#16 (PB)
2-3c#20 (Video)
2-Coax (Video)
1-3c#20
1-COAX
1 - 4" Conduit
2-7c#16 (Signal)
1-5c#16 (Ped)
1-2c#16 (PB)
2-3c#20 (Video)
2-Coax (Video)
1-1c#8 (Ground)
1 - 3" Conduit (Exist.)
2-7c#16 (Signal)
2-3c#20 (Video)
2-Coax (Video)
1-1c#8 (Ground)
1-3c#20
1-COAX
1-7c#16
1 - 3" Conduit (Ex.)
2-3c#20 (Video)
2-Coax (Video)
1-3c#20
1-COAX
1 - 4" Conduit (Ex.)
3-5c#16 (Ped)
3-2c#16 (PB)
1-7c#16
JUMPER
1-3c#20
1-COAX
1-5c#16
1-2c#16
1 - 3" Conduit
1-2c#16 (PB)
1-1c#8 (Ground)
1 - 3" Conduit (Exist.)
2-5c#16 (Ped)
1-2c#16 (PB)
1-5c#16
1-5c#16
1 - 4" Conduit (Exist.)
1-5c#16 (Ped)
1-2c#16 (PB)
1 - 3" Conduit (Exist.)
1-5c#16 (Ped)
1-2c#16 (PB)
1-5c#16
1-2c#16
1 - 3" Conduit
1-5c#16 (Ped)
1-2c#16 (PB)
1-1c#8 (Ground)
1-2c#16
1-5c#16
1-5c#16
1-2c#16
1-2c#16
1-5c#16
1-2c#16
1-2c#16
1-5c#16
1-2c#16
1-2

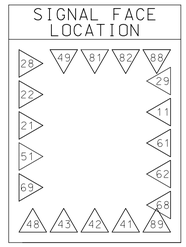
EFFECTIVE 09/08/2009

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1+5				PHASE 2+6				PHASE 4+8		PHASE		PHASE		PHASE		PHASE		PED Φ 2 OVERLAP		PED Φ 4 OVERLAP		PED Φ 6 OVERLAP		PED Φ 8 OVERLAP		
FACE NUMBERS	11	51			21	61	11	51	41 42	81									28		48		68		88		FACE NUMBERS
					22	62			43	82									29		49		69		89		
SIGNAL INDICATIONS R	R	R			R	R	R	R	R	R																	SIGNAL INDICATIONS R
SIGNAL INDICATIONS Y	Y	Y			Y	Y	Y	Y	Y	Y																	SIGNAL INDICATIONS Y
SIGNAL INDICATIONS FYA							FYA	FYA																			SIGNAL INDICATIONS FYA
SIGNAL INDICATIONS G	G	G			G	G			G	G																	SIGNAL INDICATIONS G
DETECTOR ASSIGNMENTS																											DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																											
OVERLAP PARENT PHASES																											



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW – FLASHING DON'T WALK
- R/W – RIGHT OF WAY INTERVAL
- DW – DON'T WALK
- YR† – YELLOW RIGHT ARROW
- RT. – GREEN RIGHT ARROW
- W – WALK
- LY –YL – YELLOW LEFT ARROW
- L – GREEN LEFT ARROW
- S – GREEN STRAIGHT AHEAD ARROW
- G – CIRCULAR GREEN
- Y – CIRCULAR YELLOW
- R – CIRCULAR RED
- Ø – TRAFFIC PHASE
- AO – ALL OTHERS
- FR – FLASHING RED
- FY – FLASHING CIRCULAR YELLOW
- FYL – FLASHING YELLOW LEFT ARROW
- FYR – FLASHING YELLOW RIGHT ARROW

FLASHING OPERATION	
ROUTE 100	FR
SAPPINGTON RD.	FR

CONTROLLER TYPE: NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

ROUTE 100 WITH SAPPINGTON RD.

D-38

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG043

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

ROUTE 100 & SAPPINGTON RD.

SHEET 43 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.

4. CONTRACTOR TO REMOVE ANY UNUSED EXISTING PULLBOXES DURING SIGNAL REMOVAL AND REPAIR PAVEMENT OR PARKWAY TO MATCH EXISTING. PULLBOXES WITH LIT FIBER SHALL BE PROTECTED IN PLACE.

WOODLAWN AVE.

EXISTING STREET LIGHT TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING MAST ARM SIGNAL POLE 3 TO BE REMOVED. EXISTING SIGNAL HEADS TO BE REMOVED AND REPLACED. EXISTING FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING STREET LIGHT TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING PULLBOX WITH FIBER COMMUNICATIONS (UIP). CONTRACTOR TO REMOVE UNUSED CONDUCTORS FROM CONDUIT RUNS ENTERING/LEAVING THIS PULLBOX.

EXISTING MAST ARM SIGNAL POLE 2 TO BE REMOVED. EXISTING SIGNAL HEADS TO BE REMOVED AND REPLACED. EXISTING FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EX. ROW

252+00.00

℄ ROUTE 100

Sta. 254+67.39 ℄ ROUTE 100 =
Sta. 305+00.00 ℄ WOODLAWN AVE.

305

255

Sta. 254+73.85 ℄ ROUTE 100 =
Sta. 305+06.46 ℄ WOODLAWN AVE.

EXISTING MAST ARM SIGNAL POLE 4 TO BE REMOVED. EXISTING SIGNAL HEADS TO BE REMOVED AND REPLACED. EXISTING FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING SIGNAL CABINET AND CONTROLLER TO BE REMOVED AND REPLACED. FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING POWER SUPPLY TO BE REMOVED AND REPLACED.

EXISTING STREET LIGHT TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING STREET LIGHT TO BE REMOVED. FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING MAST ARM SIGNAL POLE 1 TO BE REMOVED. EXISTING SIGNAL HEADS TO BE REMOVED AND REPLACED. EXISTING FOUNDATION TO BE REMOVED 2' BELOW GRADE.

EXISTING LIGHTING METER AND DISCONNECT. CONTRACTOR TO COODRINATE WITH AMEREN UE TO RETIRE SERVICE AND REMOVE EQUIPMENT FROM POLE.

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/5/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SG044
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

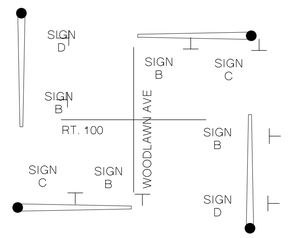
TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & WOODLAWN AVE.
SHEET 44 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC SIGNALS LEGEND

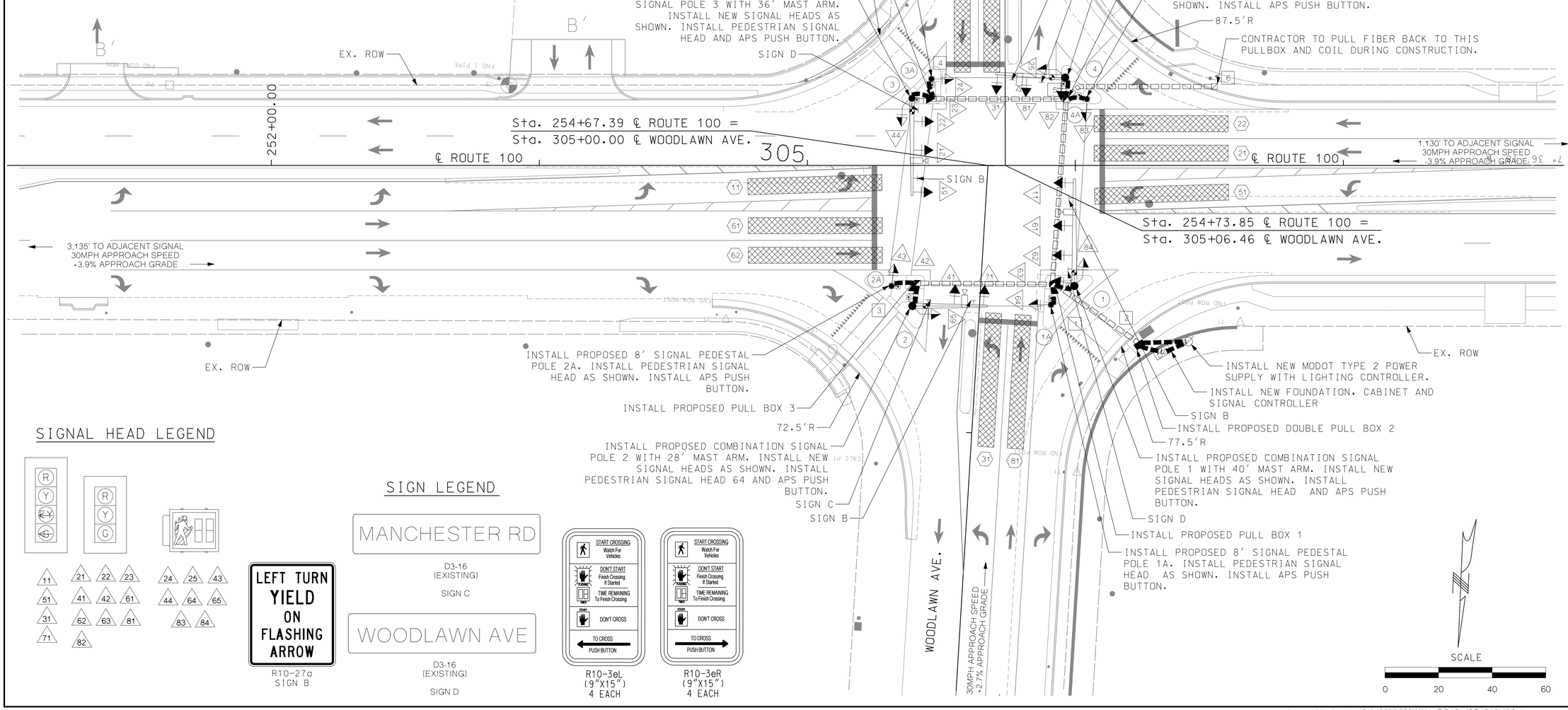
- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
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- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

SIGN LOCATIONS



GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.
4. CONTRACTOR TO CONTACT AMEREN UE TO COORDINATE POWER FEED TO NEW TYPE 2 POWER SUPPLY.



SIGNAL HEAD LEGEND

SIGN LEGEND

D3-16
(EXISTING)
SIGN C

D3-16
(EXISTING)
SIGN D

R10-27a
SIGN B

R10-3eL
(9"X15")
4 EACH

R10-3eR
(9"X15")
4 EACH

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/5/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	SG045

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
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314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & WOODLAWN AVE.
SHEET 45 OF 64

c:\pwworking\central01\d0579860\XX1_SG45_J6S1718_I20.dgn 15:18:23 2/5/2020

EFFECTIVE: 10/01/2016

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL LEFT ARM E SIGNAL SPACING E | TYPE B & BL LEFT ARM E SIGNAL SPACING K | TYPE B & BL LEFT ARM E SIGN SPACING E | TYPE B & BL LEFT ARM E SIGN SPACING K | TYPE B & BL RIGHT ARM K SIGNAL SPACING F | TYPE B & BL RIGHT ARM K SIGNAL SPACING G | TYPE B & BL RIGHT ARM K SIGNAL SPACING H | TYPE B & BL RIGHT ARM K SIGNAL SPACING H' | TYPE B & BL RIGHT ARM K SIGN SPACING F | TYPE B & BL RIGHT ARM K SIGN SPACING G | TYPE B & BL RIGHT ARM K SIGN SPACING H | TYPE B & BL RIGHT ARM K SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET. 1"	TRENCH 2"	TRENCH 3"	TRENCH 4"	PUSHED 2"	PUSHED 3"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	REMARKS
∅	⊠	11′		19′									5′		
∅	2	18′		21′											
⊠	2	9′		12′		24′									
2	1	40′					38′		38′						
1	(1)	8′		11′	11′										
1	(1A)	8′			11′										
1	3	50′					48′		48′						
3	(2)	9′		12′	12′										
3	(2A)	10′			13′										
1	5	69′					67′		67′						
5	(4)	8′		11′	11′										
5	(4A)	8′			11′										
5	4	50′					48′		48′						
4	(3)	8′		11′	11′										
4	(3A)	7′			10′										
5	6	56′					54′								
SUBTOTALS				97′	90′	12′	255′		201′				5′		
TOTALS				100′	100′	20′	260′		210′				10′		

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c #4	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL 3c #16	CLOSED LOOP INTERCONNECT 3 PAIR #16	LUMINAIRE CONTROL 2c #12	LUMINAIRE POLE & BRACKET 1c #10	VIDEO 3c #20	VIDEO COAX	FIBER SINGLE-MODE	FIBER MULTI-MODE	REMARKS
∅	⊠	11′	81′										EX.		3 RUNS
∅	2	18′							116′				EX.		4-2c
⊠	2	9′		160′	160′	160′					80′	80′			8-7c; 8-5c; 8-2c; 4-3c; 4-COAX; FIBER (EX.)
2	1	40′		368′	368′	368′			184′		184′	184′			8-7c; 8-5c; 8-2c; 4-3c; 4-COAX; 4-2c#12; FIBER (EX.)
1	(1)	8′		11′	11′	22′			11′		11′	11′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX; 1-2c#12
1	(1A)	8′		11′	11′										1-5c; 1-2c
1	3	50′		112′	112′	112′			56′		56′	56′			2-7c; 2-5c; 2-2c; 1-3c; 1-COAX; 1-2c#12
3	(2)	9′		12′	12′	24′			12′		12′	12′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX; 1-2c#12
3	(2A)	10′		13′	13′										1-5c; 1-2c
1	5	69′		300′	300′	300′			150′		150′	150′	EX.		4-7c; 4-5c; 4-2c; 2-3c; 2-COAX; 2-2c#12; FIBER (EX.)
5	(4)	8′		11′	11′	22′			11′		11′	11′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX; 1-2c#12
5	(4A)	8′		11′	11′										1-5c; 1-2c
5	4	50′		112′	112′	112′			56′		56′	56′			2-7c; 2-5c; 2-2c; 1-3c; 1-COAX; 1-2c#12
4	(3)	8′		11′	11′	22′			11′		11′	11′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX; 1-2c#12
4	(3A)	7′		10′	10′										1-5c; 1-2c
5	6	56′											EX.		FIBER (EX.)
POLE 1				9′	10′	94′				100′	49′	49′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX; 7c-Jumper
POLE 1A				9′	10′										1-5c; 1-2c
POLE 2				9′	10′	46′				100′	41′	41′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX; 7c-Jumper
POLE 2A				9′	10′										1-5c; 1-2c
POLE 3				9′	10′	78′				100′	45′	45′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX
POLE 3A				9′	10′										1-5c; 1-2c
POLE 4				9′	10′	51′				100′	38′	38′			2-7c; 1-5c; 1-2c; 1-3c; 1-COAX
POLE 4A				9′	10′										1-5c; 1-2c
SUBTOTALS			81′	1214′	1222′	1411′			607′	400′	744′	744′			
TOTALS			90′	1220′	1230′	1420′			610′	400′	750′	750′			

INTERSECTION ROUTE 100 & WOODLAWN AVE. D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG047

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & WOODLAWN AVE.
SHEET 47 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 04-01-2002

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	255+32.22	69'RT	Type 2	K	15 Amps	40 Amps	50 Amps	- Amps	1	20 Amps	Cl. Ft.	Ameren UE
-	-	-	Type	-	15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	255+32.22	69'RT	X		X		X							X			X		X			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11	ROUTE 100					1
61	ROUTE 100					1
62	ROUTE 100					1
51	ROUTE 100					1
21	ROUTE 100					1
22	ROUTE 100					1
71	WOODLAWN AVE					1
41	WOODLAWN AVE					1
31	WOODLAWN AVE					1
81	WOODLAWN AVE					1
24P	SOUTH CROSSWALK	1				
25P	SOUTH CROSSWALK	1				
43P	EAST CROSSWALK	1				
44P	EAST CROSSWALK	1				
64P	NORTH CROSSWALK	1				
65P	NORTH CROSSWALK	1				
83P	WEST CROSSWALK	1				
84P	WEST CROSSWALK	1				
-						
-						
-						
-						
-						
TOTAL		8				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	11	21 22	31	41				
	2	51	61 62	71	81				

Note: Land 2C Detector Wires on Detector Panel in Cabinet

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 4 (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
11	21 22 23	31	41 42	51	61 62 63	71	81 82	24 25	43 44	64 65	83 84

Note: Run FYA Phases 1 and 5 off of Amber Output on Load Switches 9 and 11.

Note: Run FYA Phases 3 and 7 off of Amber Output on Load Switches 10 and 12.

TOTAL NUMBER OF LOAD SWITCHES = 12

ROUTE 100 & WOODLAWN AVE.

INTERSECTION

D-37C

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG048

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

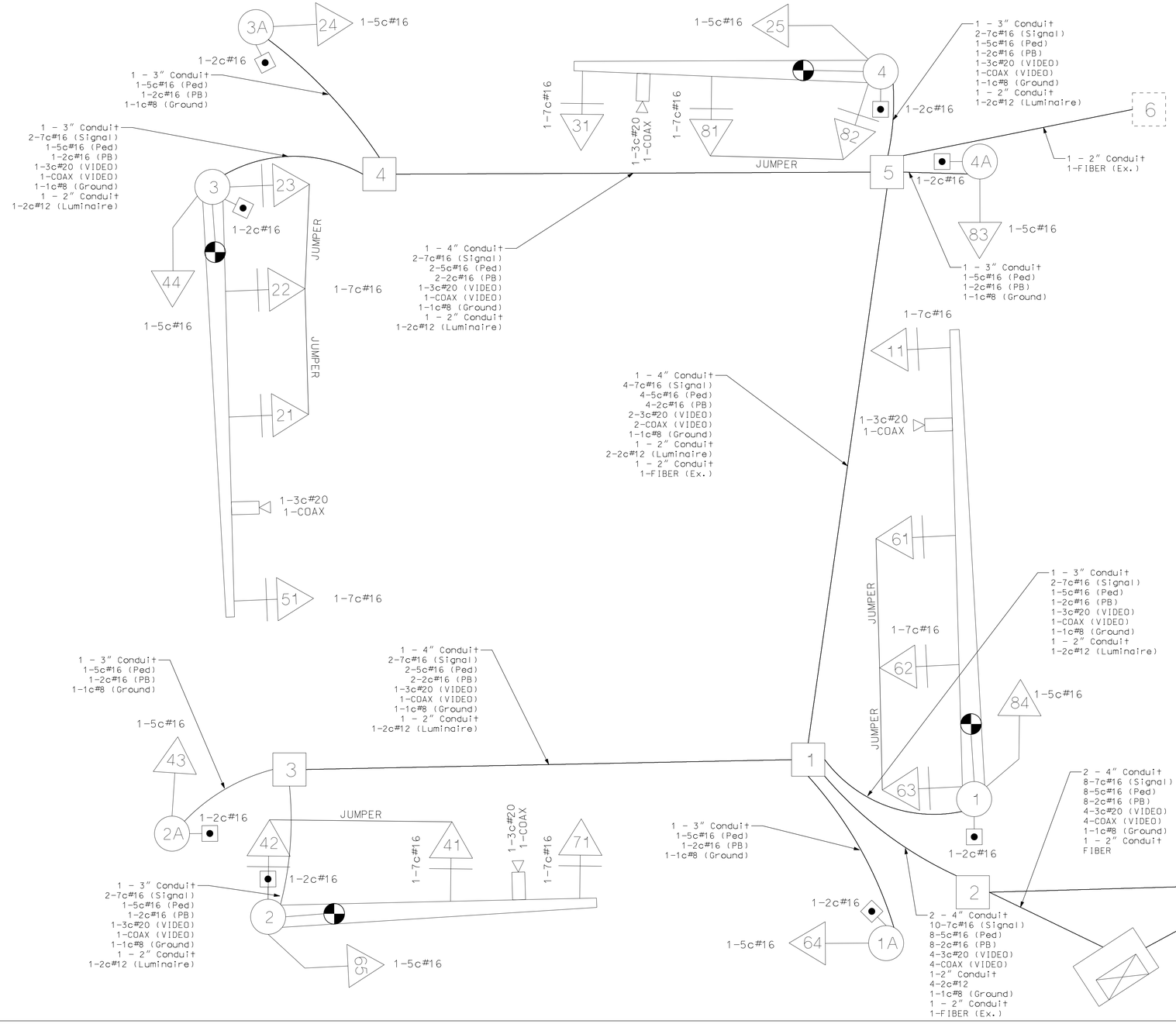
ROUTE 100 & WOODLAWN AVE.

SHEET 48 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
	VIDEO DETECTION CAMERA

ROUTE 100 & WOODLAWN AVE.

INTERSECTION

D-37D

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG049

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

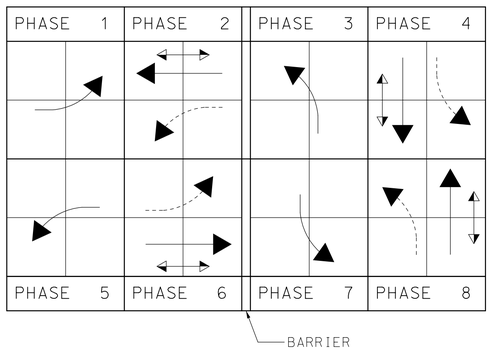
ROUTE 100 & WOODLAWN AVE.

SHEET 47 OF 64

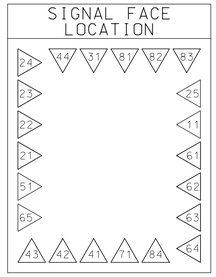
EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1+5				PHASE 2+6				PHASE 3+7				PHASE 4+8				PHASE	PHASE	PHASE	PHASE	PED Φ 2	PED Φ 4	PED Φ 6	PED Φ 8	
																					OVERLAP	OVERLAP	OVERLAP	OVERLAP	
FACE NUMBERS	11	51			11	51	61 62	21 22	31	71			31	71	41	42					24	43	64	83	FACE NUMBERS
							63	23							81	82					25	44	65	84	
SIGNAL INDICATIONS R	R	R			R	R	R	R	R	R			R	R	R	R									R
SIGNAL INDICATIONS Y	Y	Y			Y	Y	Y	Y	Y	Y			Y	Y	Y	Y									Y
SIGNAL INDICATIONS FYA					FYA	FYA							FYA	FYA											FYA
SIGNAL INDICATIONS G	G	G					G	G	G	G					G	G									G
DETECTOR ASSIGNMENTS																									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																									
OVERLAP PARENT PHASES																									



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY —YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
WOODLAWN AVE	FR
ROUTE 100	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

ROUTE 100 WITH WOODLAWN AVE.

D-38E

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	.

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

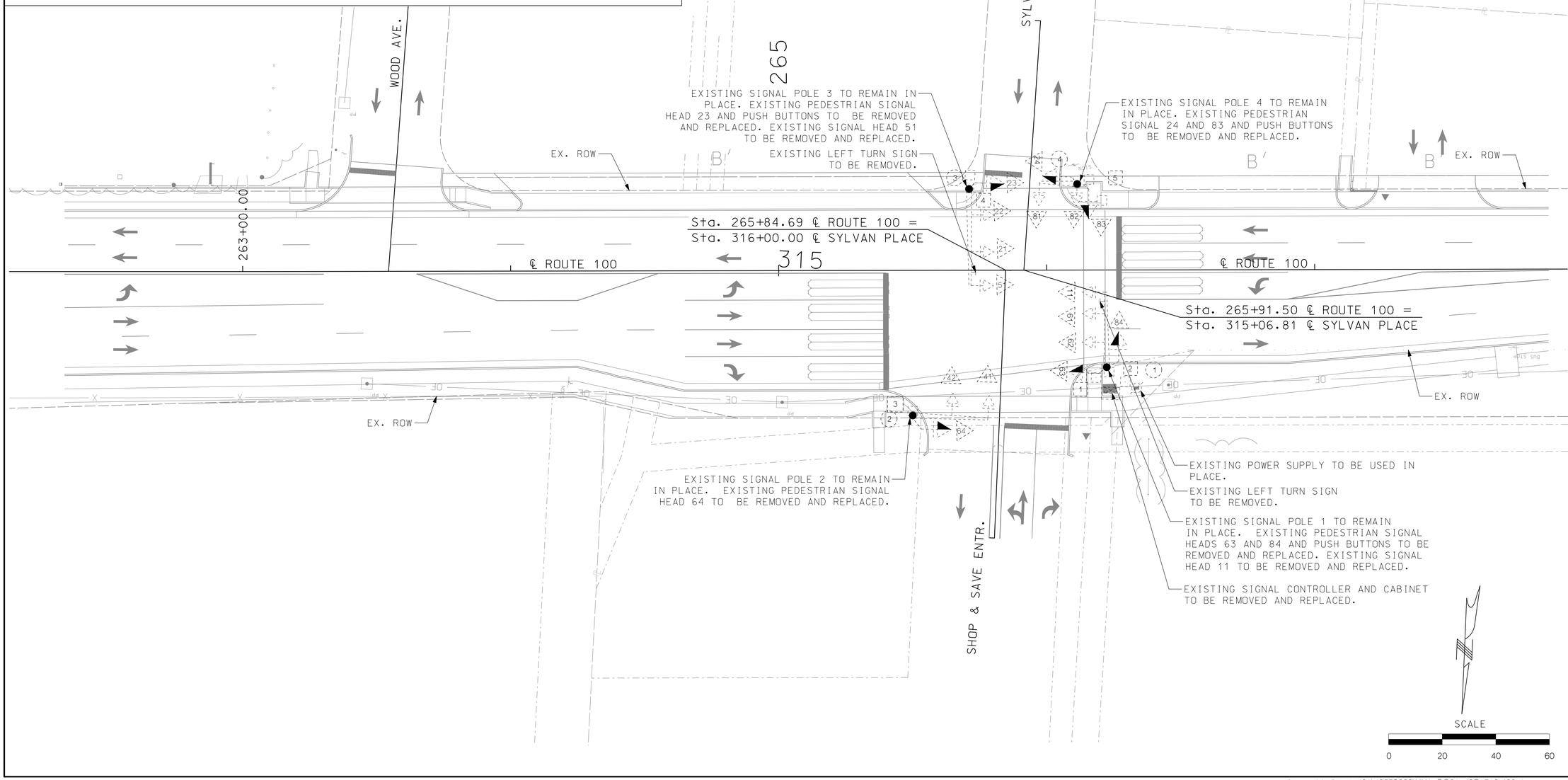
TRAFFIC SIGNAL PLANS
ROUTE 100 & WOODLAWN AVE.
SHEET 48 OF 64

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.
4. EXISTIN GPULLBOXES SHALL BE PROTECTED IN PLACE.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/5/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SG051
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & SYLVAN PLACE
SHEET 51 OF 64

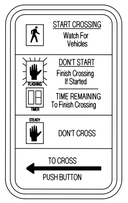
TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

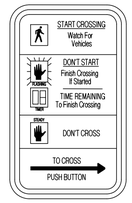
SIGN LEGEND



R10-27A
30x36
SIGN E



R10-3eL
(9"X15")
3 EACH



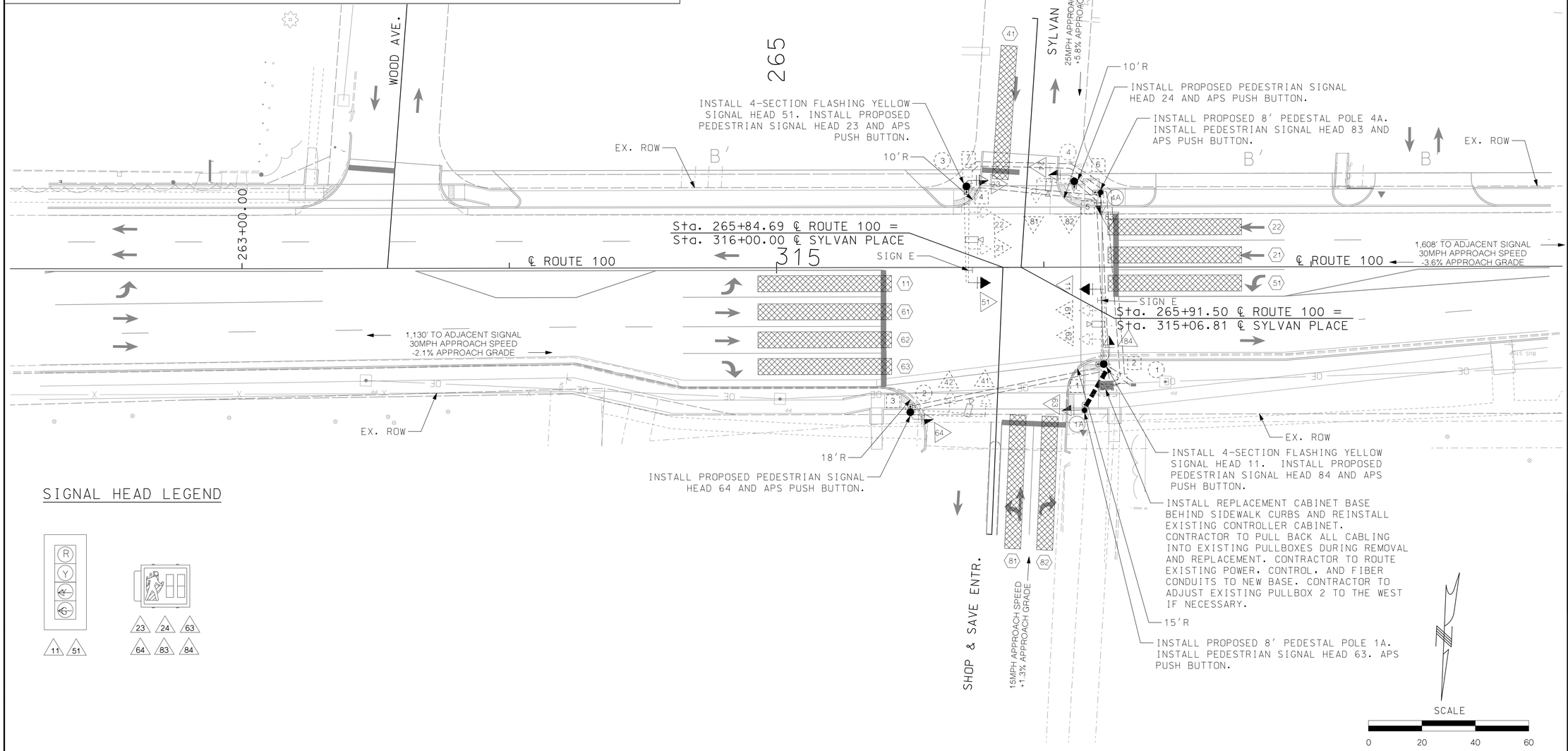
R10-3eR
(9"X15")
3 EACH

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



SIGNAL HEAD LEGEND

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
2/5/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG052

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & SYLVAN PLACE
SHEET 52 OF 64

EFFECTIVE: 10/01/2016

POST

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A (9 / 9.5 / 10 / 10.5 / 11 / 12)	BASE: F (9 / 9.5 / 10 / 10.5 / 11 / 12)	BASE: C	BASE: CONCRETE** (CU. YDS.)	PULL BOX: PREFORMED CLASS 1	PULL BOX: PREFORMED CLASS 2	PULL BOX: PREFORMED CLASS 3	PULL BOX: PREFORMED CLASS 5	PULL BOX: CONCRETE STANDARD	PULL BOX: CONCRETE DOUBLE, TYPE A	PULL BOX: CONCRETE DOUBLE, TYPE B	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.	TYPE C & CL: ARM LENGTH A	TYPE C & CL: SIGNAL SPACING B	TYPE C & CL: SIGNAL SPACING C	TYPE C & CL: SIGNAL SPACING D	TYPE C & CL: SIGNAL SPACING D'	TYPE C & CL: SIGN SPACING B	TYPE C & CL: SIGN SPACING C	TYPE C & CL: SIGN SPACING D	TYPE C & CL: SIGN SPACING D'	TYPE B & BL: ARM LENGTH E	TYPE B & BL: LEFT ARM E: SIGNAL SPACING K	TYPE B & BL: LEFT ARM E: SIGN SPACING E	TYPE B & BL: LEFT ARM E: SIGN SPACING K	TYPE B & BL: LEFT ARM E: SIGN SPACING F	TYPE B & BL: LEFT ARM E: SIGN SPACING G	TYPE B & BL: LEFT ARM E: SIGN SPACING H	TYPE B & BL: LEFT ARM E: SIGN SPACING H'	TYPE B & BL: RIGHT ARM K: SIGNAL SPACING L	TYPE B & BL: RIGHT ARM K: SIGNAL SPACING M	TYPE B & BL: RIGHT ARM K: SIGNAL SPACING N	TYPE B & BL: RIGHT ARM K: SIGNAL SPACING N'	TYPE B & BL: RIGHT ARM K: SIGN SPACING L	TYPE B & BL: RIGHT ARM K: SIGN SPACING M	TYPE B & BL: RIGHT ARM K: SIGN SPACING N	TYPE B & BL: RIGHT ARM K: SIGN SPACING N'	TYPE B & BL: INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	LUMINAIRE BRACKET ARM* 6 FT.	LUMINAIRE BRACKET ARM* 8 FT.	LUMINAIRE BRACKET ARM* 10 FT.	LUMINAIRE BRACKET ARM* 12 FT.	LUMINAIRE BRACKET ARM* 15 FT.
☒	..	ROUTE 100	266+28	42' RT				1.93																																										
1		ROUTE 100	266+22	36' RT	E	X	I	S	T	I	N	G											E	X	I	S	T	I	N	G																						
1A		ROUTE 100	265+15	54' RT				0.44													1																															
2		SYLVAN PLACE	265+50	54' RT	E	X	I	S	T	I	N	G											E	X	I	S	T	I	N	G																						
3		ROUTE 100	265+71	30' LT	E	X	I	S	T	I	N	G											E	X	I	S	T	I	N	G																						
4		SYLVAN PLACE	265+11	32' LT	E	X	I	S	T	I	N	G											E	X	I	S	T	I	N	G																						
4A		SYLVAN PLACE	265+21	28' LT				0.44													1																															
	1	ROUTE 100	266+34	39' RT	E	X	I	S	T	I	N	G																																											
	2	ROUTE 100	266+23	37' RT	E	X	I	S	T	I	N	G																																											
	3	ROUTE 100	265+50	52' RT	E	X	I	S	T	I	N	G																																											
	4	ROUTE 100	265+75	29' LT	E	X	I	S	T	I	N	G																																											
	5	ROUTE 100	266+21	25' LT	E	X	I	S	T	I	N	G																																											
	6	ROUTE 100	266+16	34' LT	E	X	I	S	T	I	N	G																																											
	7	ROUTE 100	265+71	36' LT	E	X	I	S	T	I	N	G																																											

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1″	2″	3″	4″		2″	3″	4″	2″	3″	4″	2″	3″		
3	2	2′															EXISTING
1	3	75′															EXISTING
1	1a	17′			23′												
1	1	2′															EXISTING
4	3	4′															EXISTING
5	4	46′															EXISTING
5	4	11′															EXISTING
5	4a	2′			8′												
1	5	64′															EXISTING
☒	1	5′															EXISTING
6	7	45′															EXISTING
2	6	77′															EXISTING
☒	2	6′															EXISTING
SUBTOTALS					31′												
TOTALS					40′												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		VIDEO		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	3c #20	COAX	SINGLE-MODE	MULTI-MODE	
3	2	2′			8′	8						8′	8′			1-5C; 1-2C; 1-3C; 1-COAX
1	3	75′			79′	79′						79′	79′			1-5C; 1-2C; 1-3C; 1-COAX
1	1a	17′			23′	23′										1-5C; 1-2C
1	1	2′			8′	8′	5′					8′	8′			1-7C; 1-5C; 1-2C; 1-3C; 1-COAX
4	3	4′			10′	10′	7′					10′	10′			1-7C; 1-5C; 1-2C; 1-3C; 1-COAX
5	4	46′			50′	50′	52′					50′	50′			1-7C; 1-5C; 1-2C; 1-3C; 1-COAX
5	4	11′			17′	17′						17′	17′			1-5C; 1-2C; 1-3C; 1-COAX
5	4a	2′			8′	8′										1-5C; 1-2C
1	5	64′			204′	204′	70′					136′	136′			1-7C; 3-5C; 3-2C; 2-3C; 2-COAX
☒	1	5′			114′	114′	32′					76′	76′			2-7C; 6-5C; 6-2C; 4-3C; 4-COAX
6	7	45′												EX		EXISTING; 1-FIBER (EX)
2	6	77′												EX		EXISTING; 1-FIBER (EX)
☒	2	6′												EX		EXISTING; 1-FIBER (EX)
					9′	10′	49′					36′	36′			1-7C; 1-5C; 1-2C; 1-3C; 1-COAX
					9′	10′										1-5C; 1-2C
					9′	10′						42′	42′			1-5C; 1-2C; 1-3C; 1-COAX
					9′	10′	57′					41′	41′			1-7C; 1-5C; 1-2C; 1-3C; 1-COAX
					9′	10′						31′	31′			1-5C; 1-2C; 1-3C; 1-COAX
					9′	10′										1-5C; 1-2C
SUBTOTALS					575′	581′	272′					534′	534′			
TOTALS					580′	590′	280′					540′	540′			

INTERSECTION ROUTE 100 & SYLVAN PLACE

D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG054

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & SYLVAN PLACE
SHEET 54 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 04-01-2002

POWER SUPPLY - EXISTING

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	266+27.87	42'RT	Ex	-	15 Amps	- Amps	- Amps	- Amps	Ex	Amps	Cl. Ft.	Ameren UE
-	-	-	Type	-	15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	266+27.87	42'RT	-	-	Ex	-	X							X			X					
-	-	-	-	-	-	-																
-	-	-	-	-	-	-																
-	-	-	-	-	-	-																

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11	ROUTE 100	-		-	-	1
21	ROUTE 100					1
22	ROUTE 100					1
41	ROUTE 100					1
51	ROUTE 100					1
61	ROUTE 100					1
62	ROUTE 100					1
63	ROUTE 100					1
81	ROUTE 100					1
82	ROUTE 100					1
23	SOUTH CROSSWALK	1				
24	SOUTH CROSSWALK	1				
63	NORTH CROSSWALK	1				
64	NORTH CROSSWALK	1				
83	WEST CROSSWALK	1				
84	WEST CROSSWALK	1				
-						
-						
-						
-						
TOTAL		6				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	11	21 22	81 82	-	-	-	-	-
	2	51	61 62	41 42	-	-	-	-	-

Note: Land 2C Detector Wires on Detector Panel in Cabinet

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
11	21 22	41 42	51	61 62	81 82				23 24	63 64	83 89

Note: Run FYA Phases 1 and 5 off of Amber Output on Load Switches 10 and 11.

TOTAL NUMBER OF LOAD SWITCHES = 0 NEW

ROUTE 100 & SYLVAN PLACE

INTERSECTION

D-37C

c:\pwworking\central01\d0579860\XX1_SG55_J6S1718_120.dgn 15:19:13 2/5/2020

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG055

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

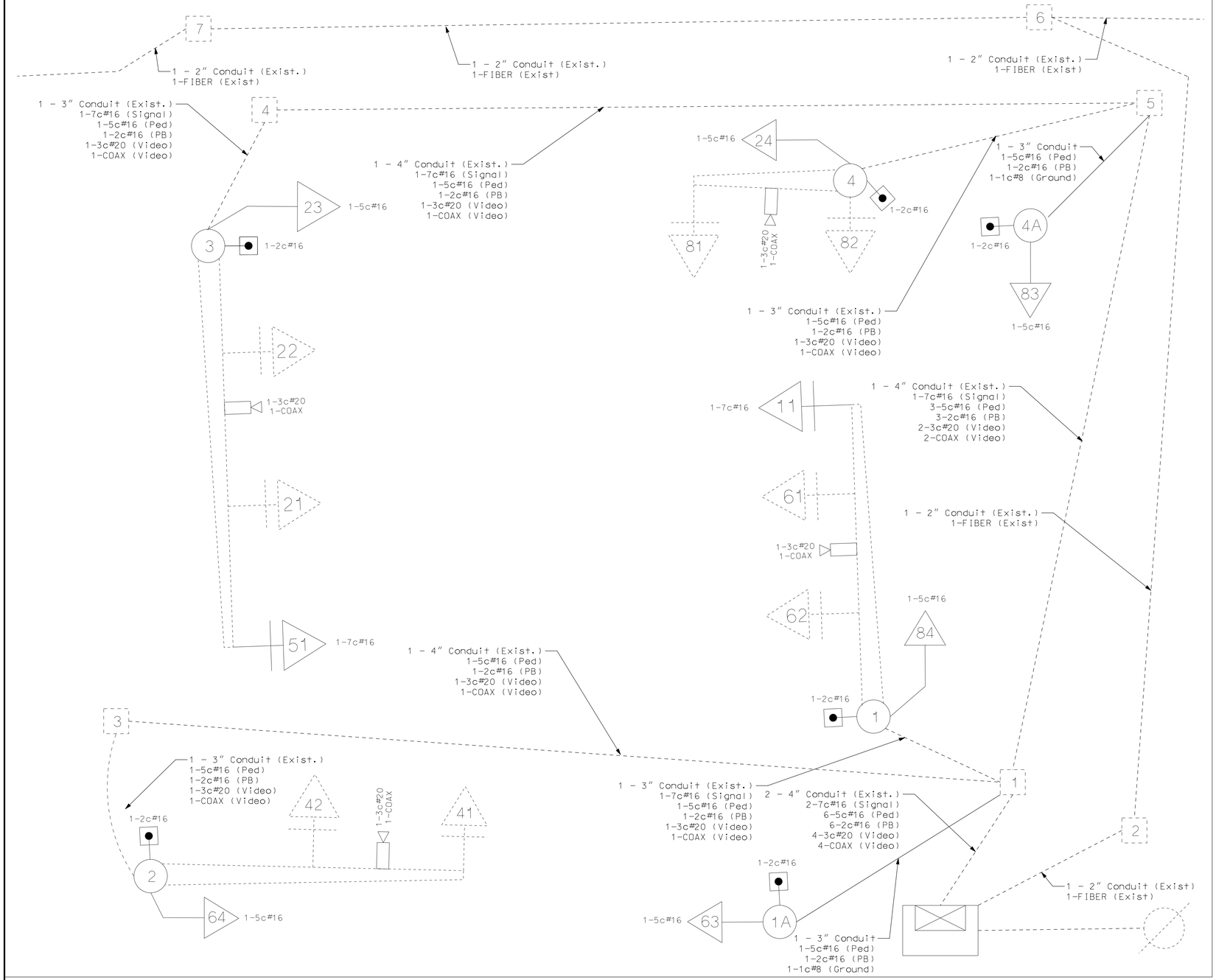
TRAFFIC SIGNAL PLANS

ROUTE 100 & SYLVAN PLACE

SHEET 55 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
	VIDEO DETECTOR CAMERA

ROUTE 100 & SYLVAN PLACE

INTERSECTION

D-37D

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG056

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

ROUTE 100 & SYLVAN PLACE

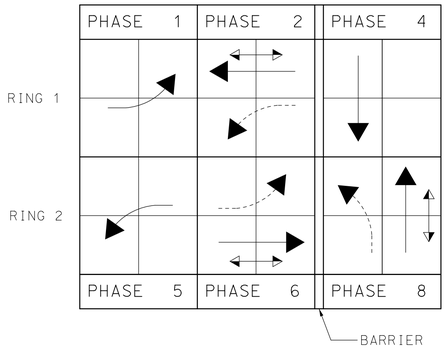
SHEET 56 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

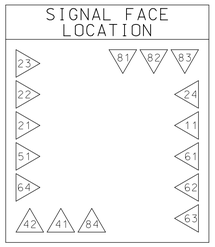
EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

		PHASE 1+5			PHASE 2+6				PHASE 4+8		PHASE		PHASE		PHASE		PHASE		PED Φ 2 OVERLAP		PED Φ 6 OVERLAP		PED Φ 8 OVERLAP		PED Φ OVERLAP		
FACE NUMBERS		11	51		11	51	21	61	41	81									23		63		83				FACE NUMBERS
							22	62	42	82									24		64		84				
SIGNAL INDICATIONS	R	R	R		R	R	R	R	R	R																	R
	Y	Y	Y		Y	Y	Y	Y	Y	Y																	Y
	FYA				FYA	FYA																					FYA
	G	G	G				G	G	G	G																	G
DETECTOR ASSIGNMENTS																											DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																											
OVERLAP PARENT PHASES																											



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
SYLVAN PL	FR
ROUTE 100	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

ROUTE 100 WITH SYLVAN PLACE

D-38E

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG057

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS

ROUTE 100 & SYLVAN PLACE

SHEET 57 OF 64

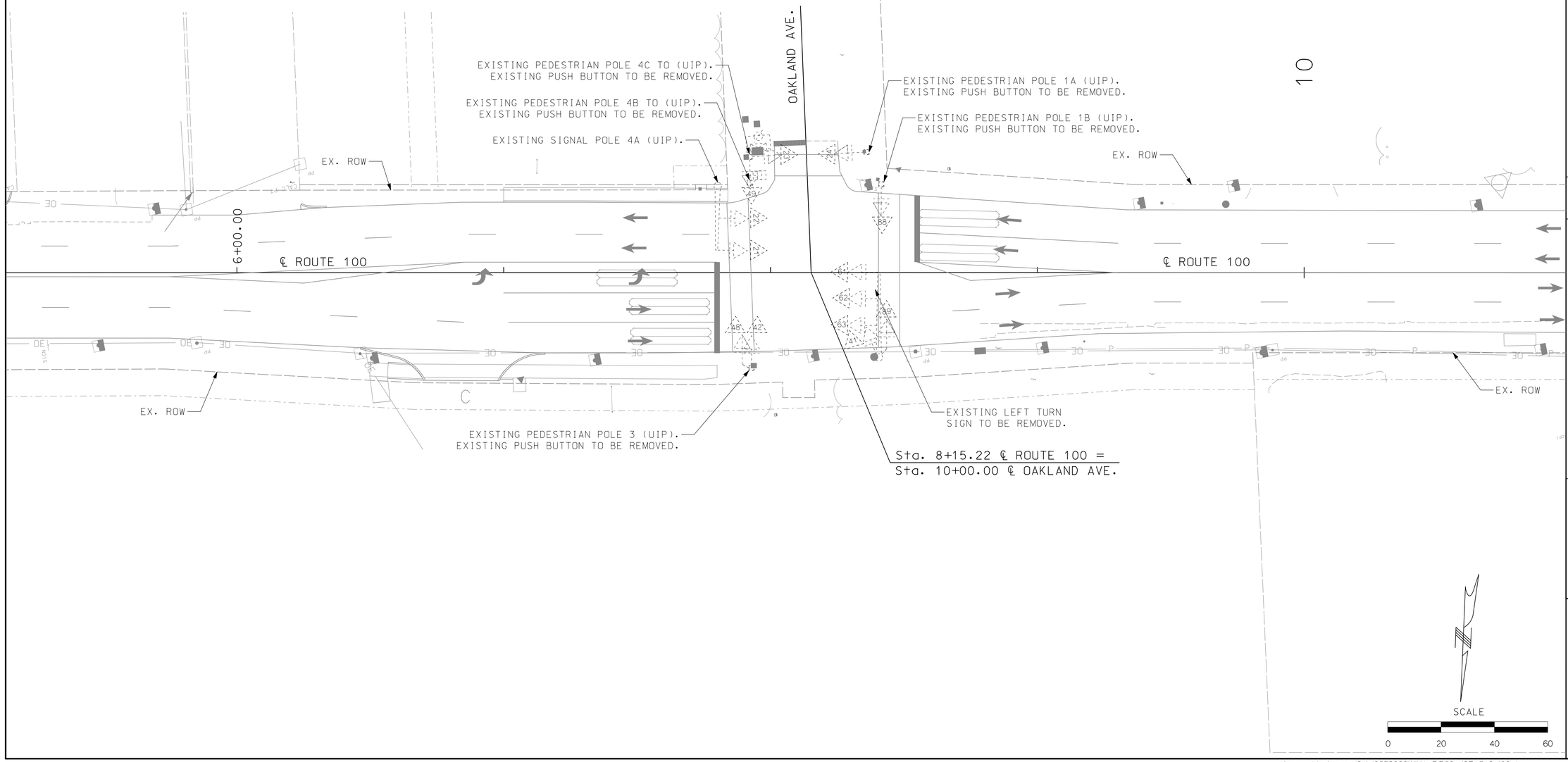
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE

GENERAL NOTES

1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.
2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.
3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG058

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (REMOVAL)
ROUTE 100 & OAKLAND AVE.
SHEET 58 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC SIGNALS LEGEND

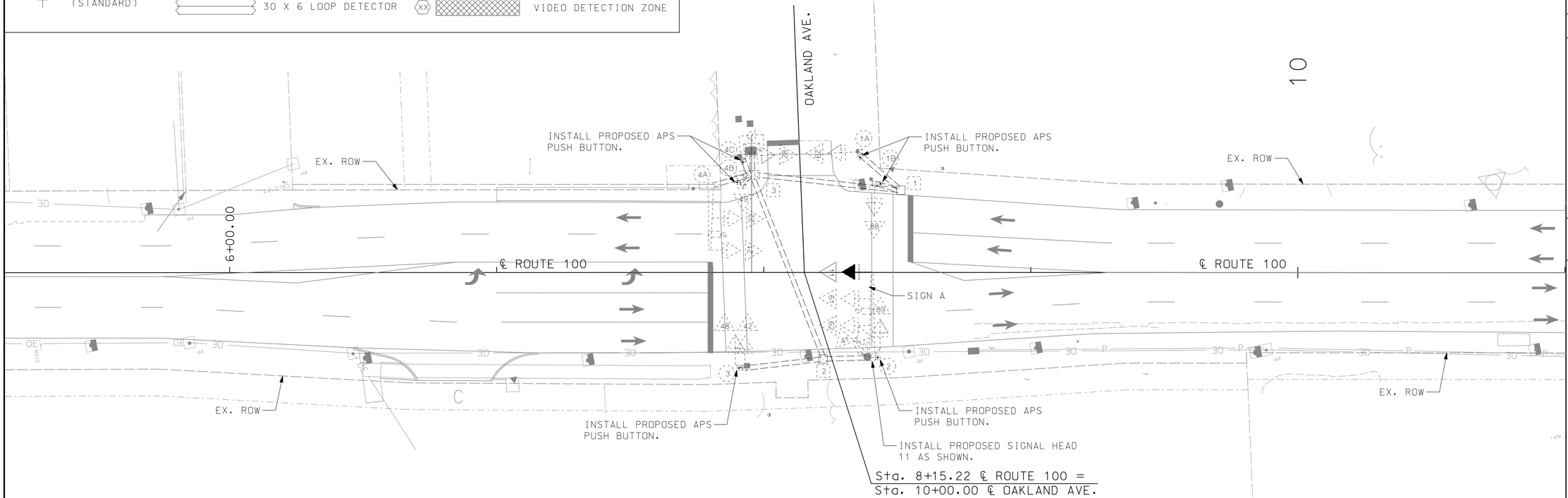
- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE
- MAST ARM WITH LUMINAIRE
- VIDEO DETECTION ZONE

GENERAL NOTES

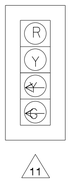
1. CONTRACTOR TO INSTALL NEW SIGNALS AS SHOWN IN THE PLANS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD SPECIFICATIONS.

2. CONTRACTOR TO INSTALL NEW APS PEDESTRIAN SIGNAL EQUIPMENT IN ACCORDANCE WITH ADA STANDARDS.

3. ALL REMOVED SIGNAL AND LIGHTING APPURTENANCES NOT BEING REUSED TO BE RETURNED TO MODOT, TRAFFIC SIGNAL SECTION.



SIGNAL HEAD LEGEND



SIGN LEGEND



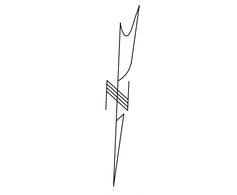
R10-27a
SIGN A



R10-3eL
(9"X15")
3 EACH



R10-3eR
(9"X15")
3 EACH



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DATE PREPARED: 2/5/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: SG059
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & OAKLAND AVE.
SHEET 59 OF 64

EFFECTIVE: 10/01/2016

POST NUMBER	PULL BOX NUMBER	LOCATION APPROACH	LOCATION STATION	LOCATION OFFSET	BASE A	BASE F	BASE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 1	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	PULL BOX CONCRETE DOUBLE, TYPE A	PULL BOX CONCRETE DOUBLE, TYPE B	DRAIN TYPE*	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.	POST TYPE C & CL ARM LENGTH	POST TYPE C & CL SIGNAL SPACING	POST TYPE C & CL SIGN SPACING	POST TYPE B & BL ARM LENGTH	POST TYPE B & BL LEFT ARM E SIGNAL SPACING	POST TYPE B & BL LEFT ARM E SIGN SPACING	POST TYPE B & BL RIGHT ARM K SIGNAL SPACING	POST TYPE B & BL RIGHT ARM K SIGN SPACING	POST TYPE B & BL INCLUDED ANGLE	LUMINAIRE BRACKET ARM*
					9 9.5 10 10.5 11 12	9 9.5 10 10.5 11 12										I II			A	B C D D′	E	K E K E K	F G H H′	F G H H′	L M N N′	L M N N′		4 FT. 6 FT. 8 FT. 10 FT. 12 FT. 15 FT.
1A		ROUTE 100	08+36	46′ LT	EXISTING	EXISTING																						
1B		ROUTE 100	08+42	34′ LT	EXISTING	EXISTING																						
2		ROUTE 100	08+41	32′ RT	EXISTING	EXISTING													EXISTING									
3		ROUTE 100	07+93	36′ RT	EXISTING	EXISTING																						
4A		ROUTE 100	07+81	33′ LT	EXISTING	EXISTING													EXISTING									
4B		ROUTE 100	07+93	34′ LT	EXISTING	EXISTING																						
4C		ROUTE 100	07+93	44′ LT	EXISTING	EXISTING																						
	1	ROUTE 100	08+52	31′ LT	EXISTING	EXISTING																						
	2	ROUTE 100	08+23	33′ RT	EXISTING	EXISTING																						
	3	ROUTE 100	08+93	36′ RT	EXISTING	EXISTING																						
				SUBTOTAL																								
				TOTAL																								

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE 150W SODIUM | INDICATIONS * 12" LENS CONVENTIONAL R | Y | YL | YR† | FYL | FYR | G | S | L | R† | 12" LENS OPTICAL LIMITING R | Y | YL | YR† | YL | YR† | G | S | L | R† | VISORS * 12" LENS | PED. | LOUVERS * A | B | C | D | E | F | BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | BRACKET* TYPE I | II | III | ONE-FACE SECTION 1- T | S | C | B | 3- T | S | C | B | 4- T | S | C | B | 5- T | S | C | B | TWO-FACE SECTIONS 11- T | S | B | 33- T | S | C | B | 34- T | S | B | 35- T | S | B | 44- T | S | B | 45- T | S | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1″	2″	3″	4″		2″	3″	4″	2″	3″	4″	2″	3″		
1	1A	21′															EXISTING
1	1B	10′															EXISTING
3	1	55′															EXISTING
2	2	19′															EXISTING
2	3	30′															EXISTING
3	2	74′															EXISTING
3	4A	16′															EXISTING
3	4B	4′															EXISTING
3	4C	8′															EXISTING
⊠	3	10′															EXISTING
																	POLE 2
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	3c#20	COAX	SINGLE-MODE	MULTI-MODE	
1	1A	21′														
1	1B	10′														
3	1	55′														
2	2	19′					22′									1-7c
2	3	30′														
3	2	74′					80′									1-7c
3	4A	16′														
3	4B	4′														
3	4C	8′														
⊠	3	10′					21′									1-7c
POLE 2							53′									1-7c
SUBTOTALS							176′									
TOTALS							180′									

INTERSECTION ROUTE 100 & OAKLAND AVE.

D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. SG061

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & OAKLAND AVE.
SHEET 61 OF 64

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 04-01-2002

POWER SUPPLY- EXISTING

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	07+96	51' LT	Ex	·	15 Amps	· Amps	· Amps	· Amps		Amps	Ci. Ft.	Ameren UE
·	·	·	Type	·	15 Amps	· Amps	· Amps	· Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✳ SWITCH		COORDINATION INTERFACE ✳						TIME ✳ CLOCK	NEMA CABINET TYPE ✳			170 CABINET TYPE ✳		170 SOFTWARE ✳	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	7+96	46' LT	·	·	Ex	·	X					·	·	X			Ex					
·	·	·	·	·	·	·	·					·	·	·					·	·	·	·
·	·	·	·	·	·	·	·					·	·	·					·	·	·	·

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON ✟	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
11	ROUTE 100 WB LT			·	·	EX
21	ROUTE 100 WB					EX
22	ROUTE 100 WB					EX
61	ROUTE 100 EB					EX
62	ROUTE 100 EB					EX
41	OAKLAND AVE NB					EX
28P	SOUTH CROSSWALK	1				
29P	SOUTH CROSSWALK	1				
48P	EAST CROSSWALK	1				
49P	EAST CROSSWALK	1				
88P	WEST CROSSWALK	1				
89P	WEST CROSSWALK	1				
TOTAL		6				

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
✟ FULL ADA-COMPLIANT APS PUSH BUTTONS

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	11	21 22	41	·	·	·	·	·
	2	·	61 62	42	·	·	·	·	·

NOTE: LAND 2C DETECTOR WIRES ON DETECTOR PANEL IN CABINET

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 3 (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
11	21 22	61 62	41 42						28 29	48 49	88 89

NOTE: RUN FYA PHASE 1 OFF OF AMBER OUTPUT ON LOAD SWITCH 10

TOTAL NUMBER OF LOAD SWITCHES = 0 NEW

ROUTE 100 & OAKLAND AVE.
INTERSECTION

D-37C

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG062

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: ·
PROJECT NO.: ·
BRIDGE NO.: ·

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

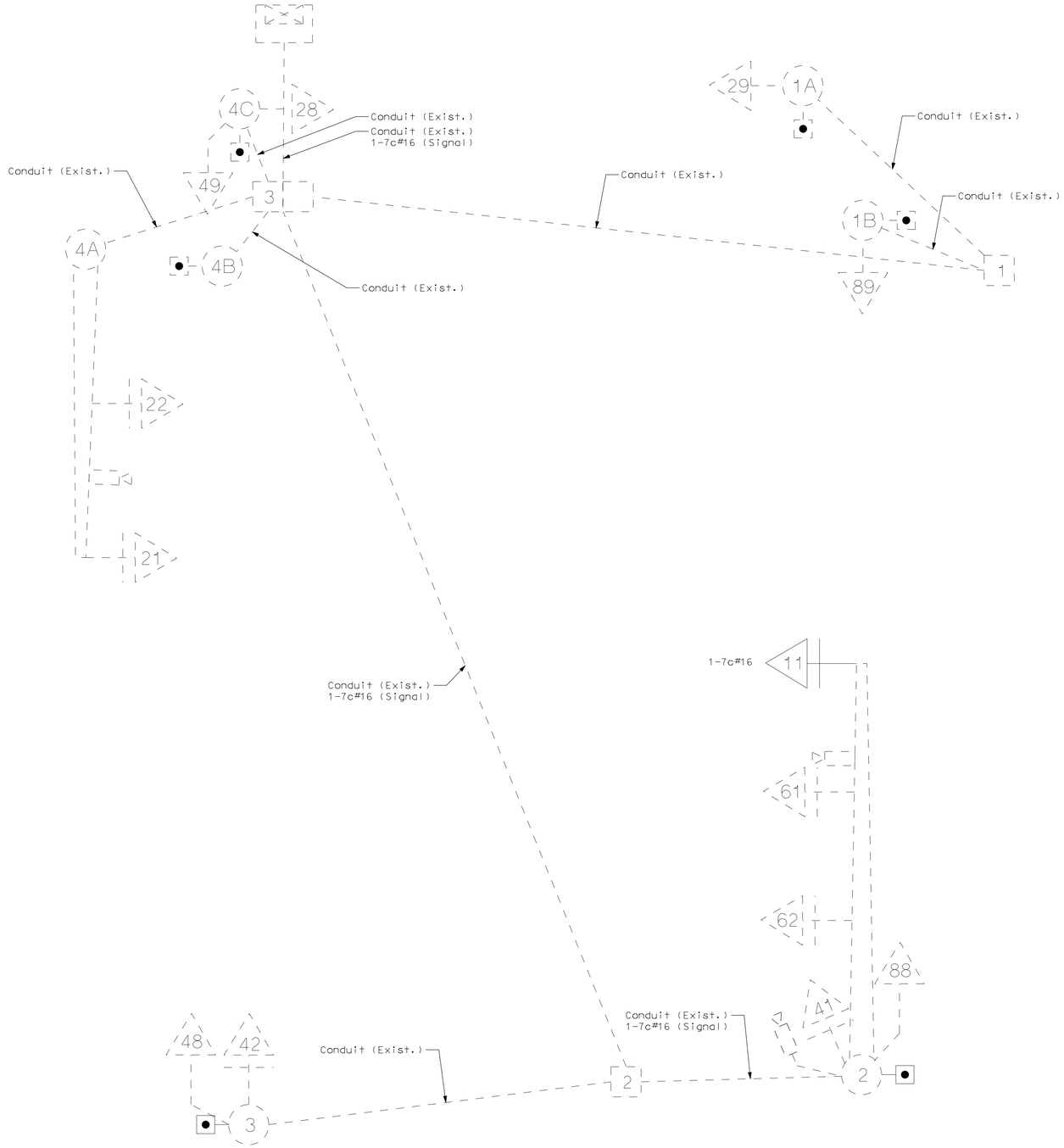
DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & OAKLAND AVE.
SHEET 62 OF 64

WIRING DIAGRAM



LEGEND

CONDUIT CONTAINING CABLE WITH SIZE

X-Xc MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)

LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)

PULL BOX WITH NUMBER

POST WITH NUMBER

POST WITH MAST ARM

DETECTOR WITH NUMBER

SIGNAL HEAD WITH NUMBER

SIGNAL CONTROLLER

POWER SUPPLY

VIDEO DETECTOR

TRAFFIC SIGNAL PLANS (PROPOSED)
SHEET 63 OF 64

ROUTE 100 & OAKLAND AVE.

INTERSECTION

D-37D

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG063

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

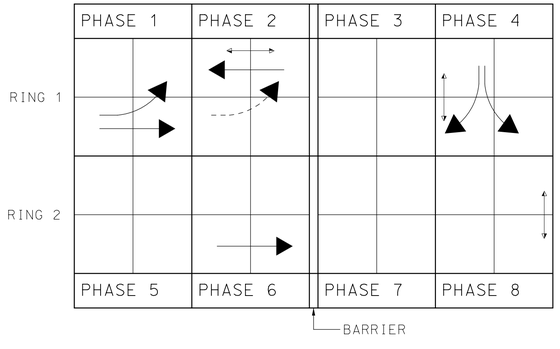
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS (PROPOSED)
ROUTE 100 & OAKLAND AVE.
SHEET 63 OF 64

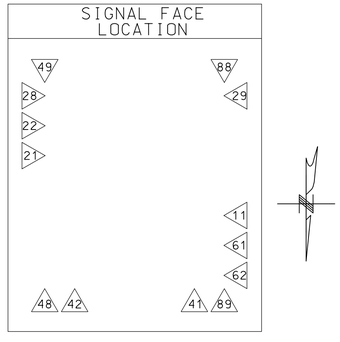
EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1	PHASE 2+6	PHASE 4	PHASE 4+8	PHASE	PHASE	PHASE	PHASE	PED Φ 2 OVERLAP	PED Φ 4 OVERLAP	PED Φ 6 OVERLAP	PED Φ 8 OVERLAP	
FACE NUMBERS	11, 61, 62	11, 61, 62, 21, 22	41, 42							48, 49	28, 29	88, 89	FACE NUMBERS
SIGNAL INDICATIONS R	R R R	R R R R	R										R
SIGNAL INDICATIONS Y	Y Y Y	Y Y Y	Y										Y
SIGNAL INDICATIONS FYA	FYA	FYA											FYA
SIGNAL INDICATIONS G	G G	G G	G										G
DETECTOR ASSIGNMENTS													DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)													
OVERLAP PARENT PHASES													



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YR+ — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY –YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE 100	FR
BRENTWOOD RD	FR
CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION		
INTERSECTION OF		
ROUTE 100	WITH	OAKLAND AVE.

D-38A

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SG064

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

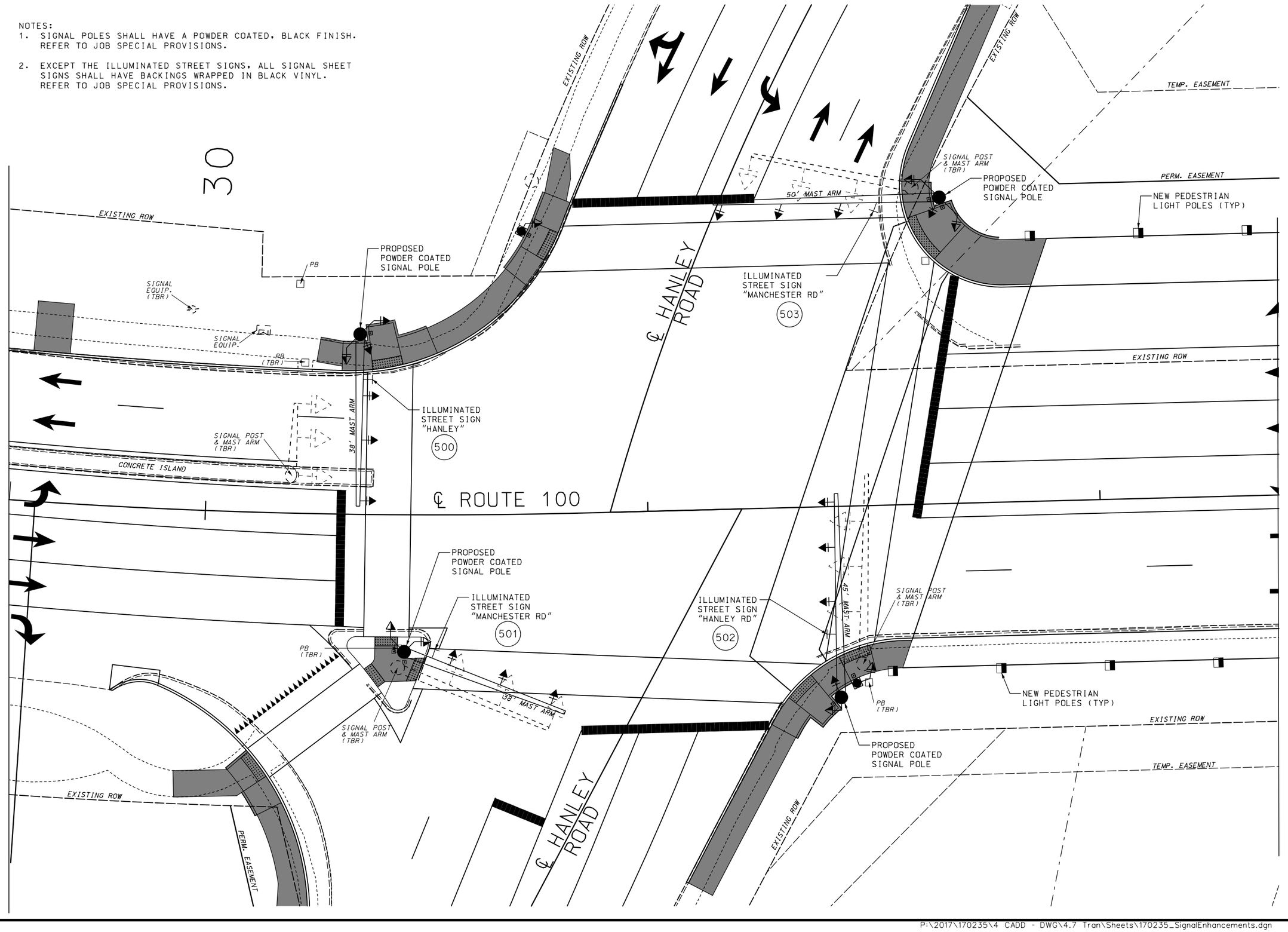
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

TRAFFIC SIGNAL PLANS
ROUTE 100 & OAKLAND AVE.
SHEET 64 OF 64

NOTES:
1. SIGNAL POLES SHALL HAVE A POWDER COATED, BLACK FINISH. REFER TO JOB SPECIAL PROVISIONS.

2. EXCEPT THE ILLUMINATED STREET SIGNS, ALL SIGNAL SHEET SIGNS SHALL HAVE BACKINGS WRAPPED IN BLACK VINYL. REFER TO JOB SPECIAL PROVISIONS.



DATE PREPARED
3/31/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	X

COUNTY
ST. LOUIS

JOB NO.
.

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

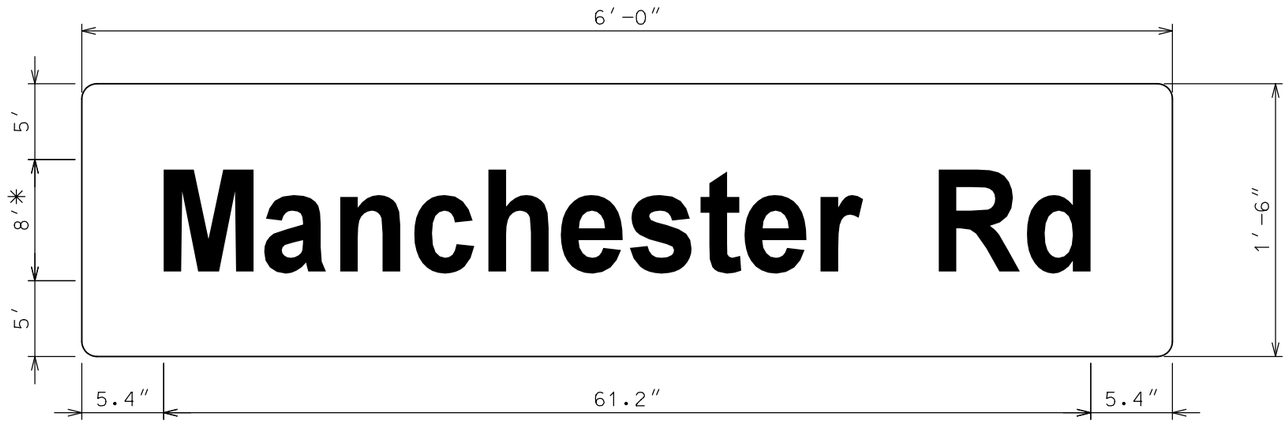
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
HANLEY RD. SIGNAL ENHANCEMENT
SHEET 1 OF 2

REV.

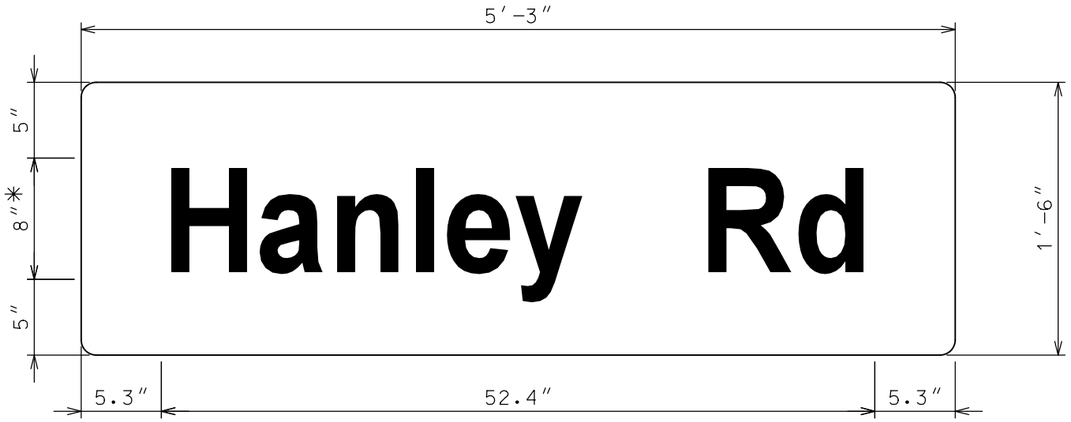
SIGN NUMBER	MANCHESTER RD
WIDTH X HEIGHT	6′-0″ x 1′-6″
BORDER WIDTH	0.5″
CORNER RADIUS	1.5″
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black
TYPE	Edge Lit LED STREET SIGN



✳ LETTERING SHALL BE 8″ IN HEIGHT OF TYPE "SERIES C"

SIGN NO.	501 & 503
STATION	30+44.10 LT & 31+66.15 RT
ROADWAY	MANCHESTER

SIGN NUMBER	HANLEY RD
WIDTH X HEIGHT	5′-3″ x 1′-6″
BORDER WIDTH	0.5″
CORNER RADIUS	1.5″
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black
TYPE	Edge Lit LED STREET SIGN



✳ LETTERING SHALL BE 8″ IN HEIGHT OF TYPE "SERIES C"

SIGN NO.	500 & 502
STATION	30+33.75 RT & 31+41.70 LT
ROADWAY	MANCHESTER

NOTES:

STREET SIGNS SHALL BE MOUNTED ON SIGNAL MAST ARMS

D-31

DATE PREPARED 3/31/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. X
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B/C
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

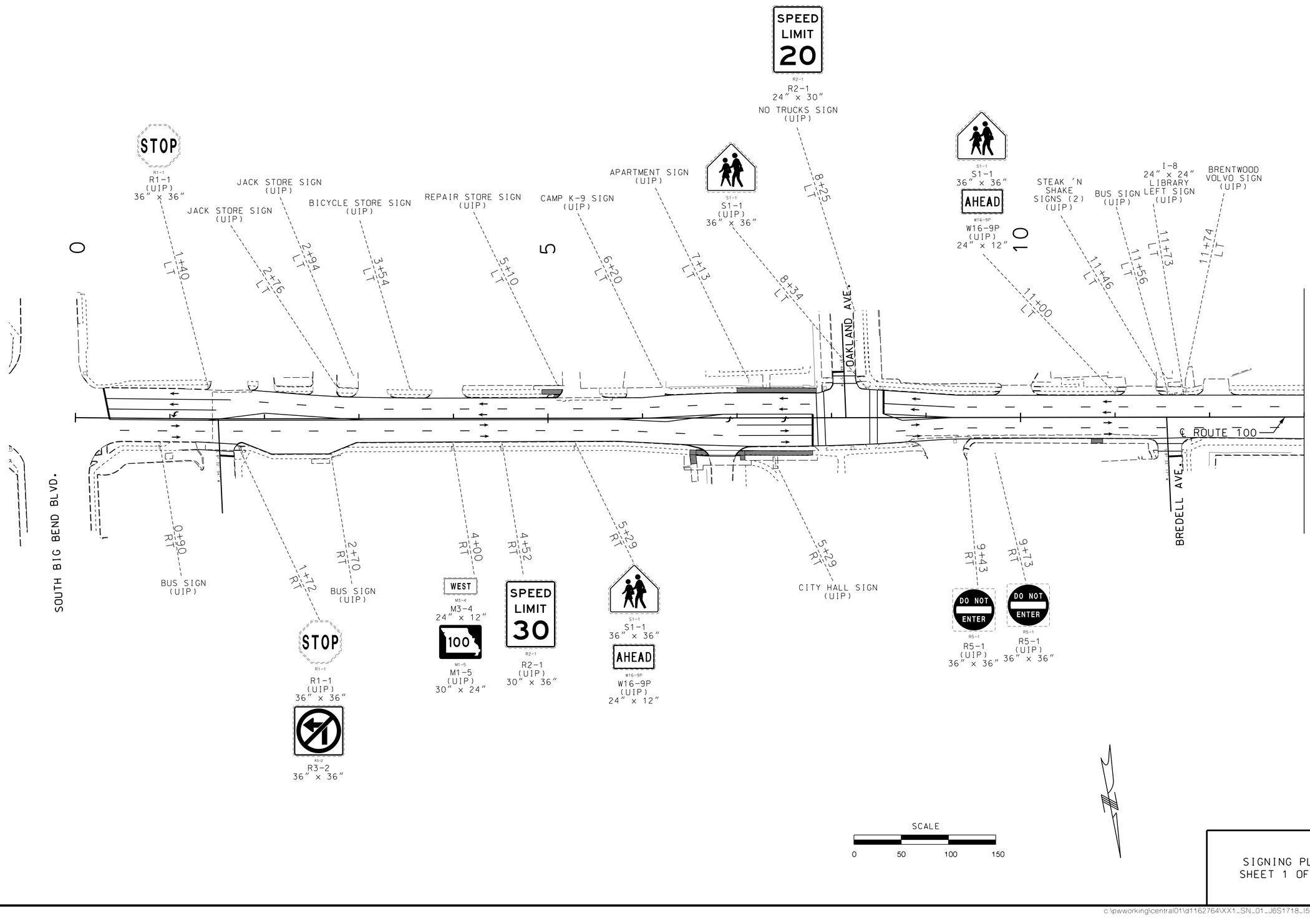
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET
HANLEY RD. SIGNAL ENHANCEMENT
SHEET 2 OF 2

REV.

P:\2017\170235\4 CADD - DWG\4.7 Tran\Sheets\170235_SignalEnhancements2.dgn 1:39:43 PM 3/31/2020



SIGNING PLAN
SHEET 1 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN001

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

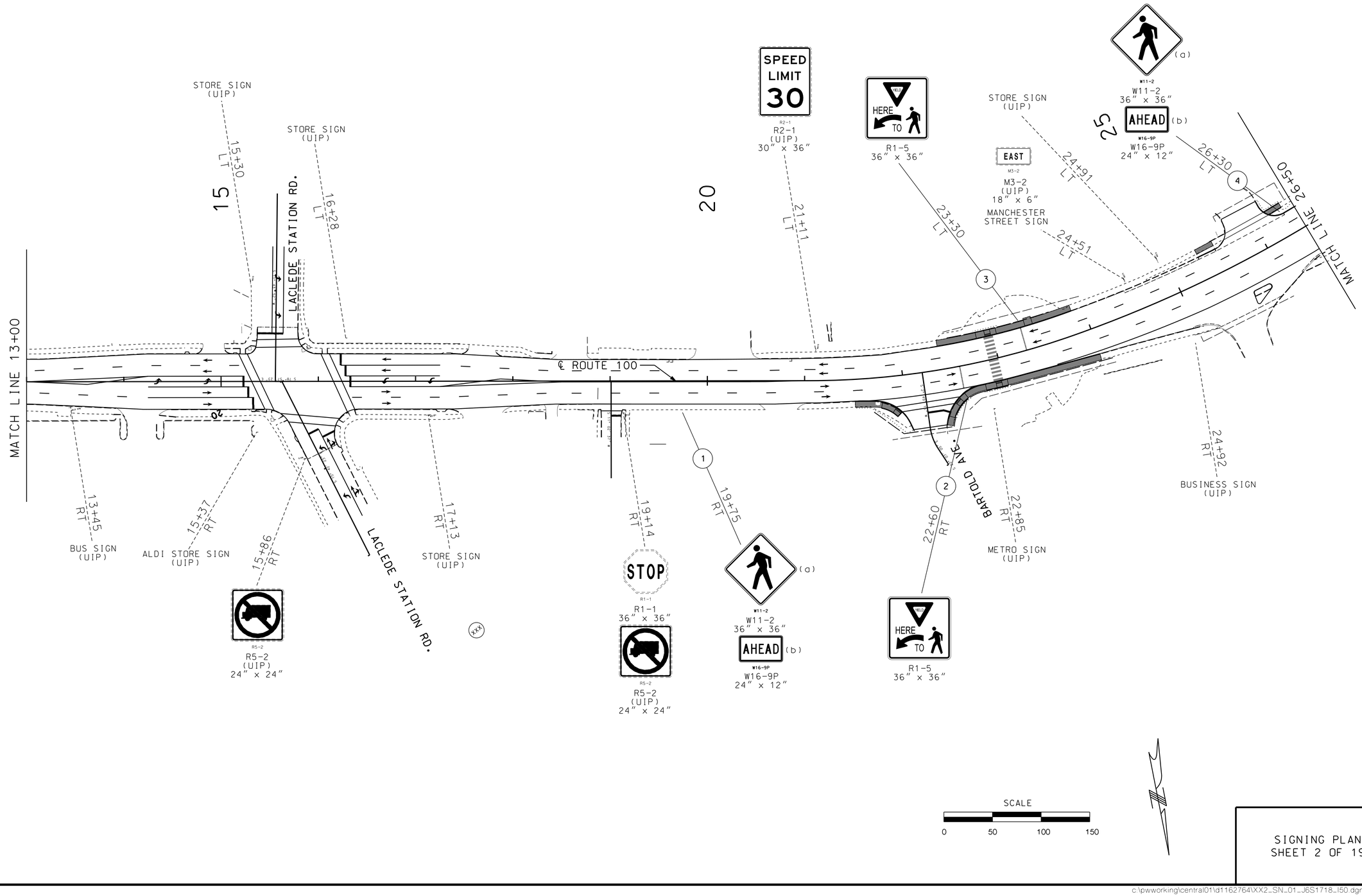
DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Suite 300
St. Louis, MO 63103-2267
314-425-8300
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REV.



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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN002

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION

DATE

REV.

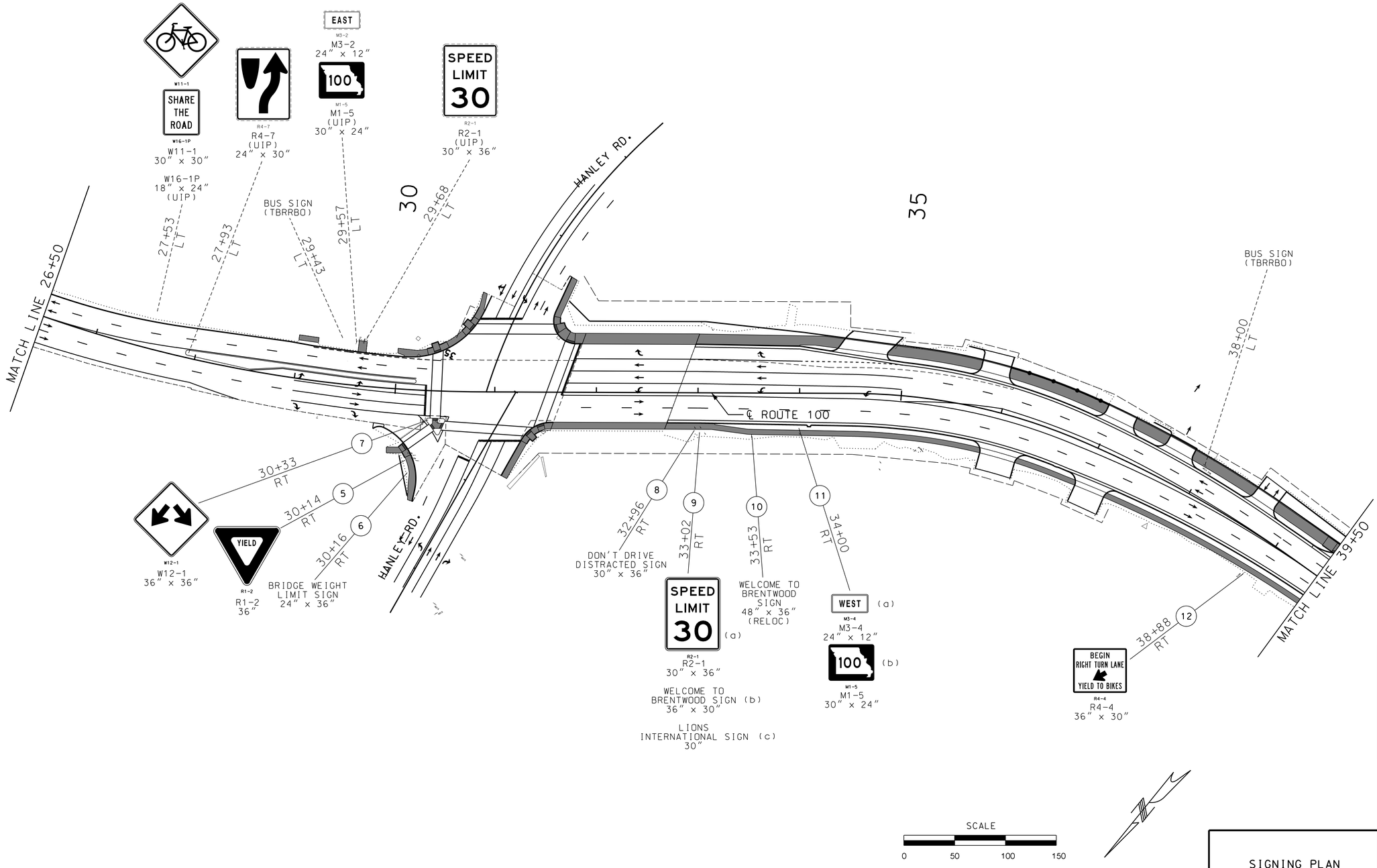
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

SIGNING PLAN
SHEET 2 OF 19

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SIGNING PLAN
SHEET 3 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN003

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

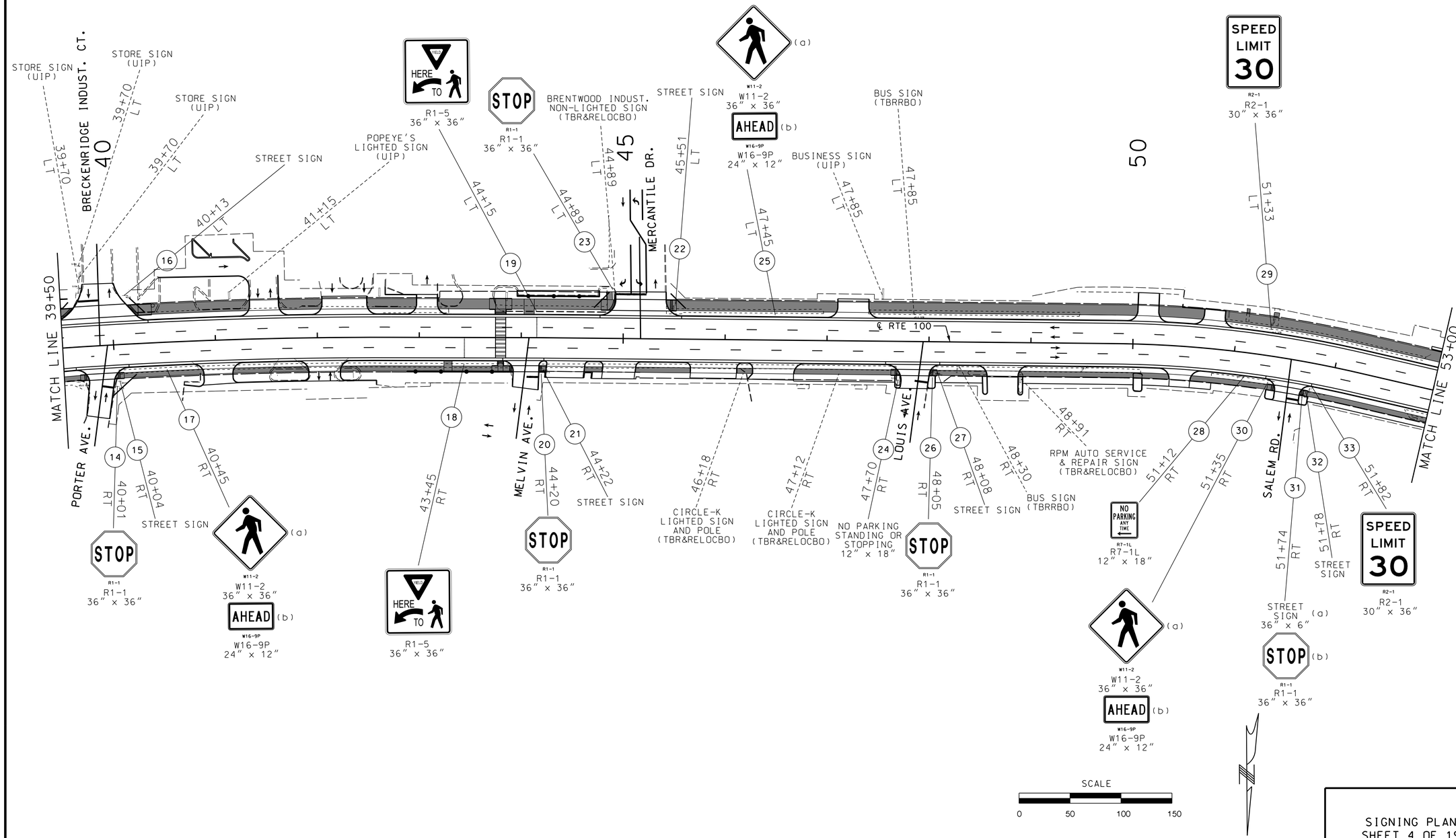
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



SIGNING PLAN
SHEET 4 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN004

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

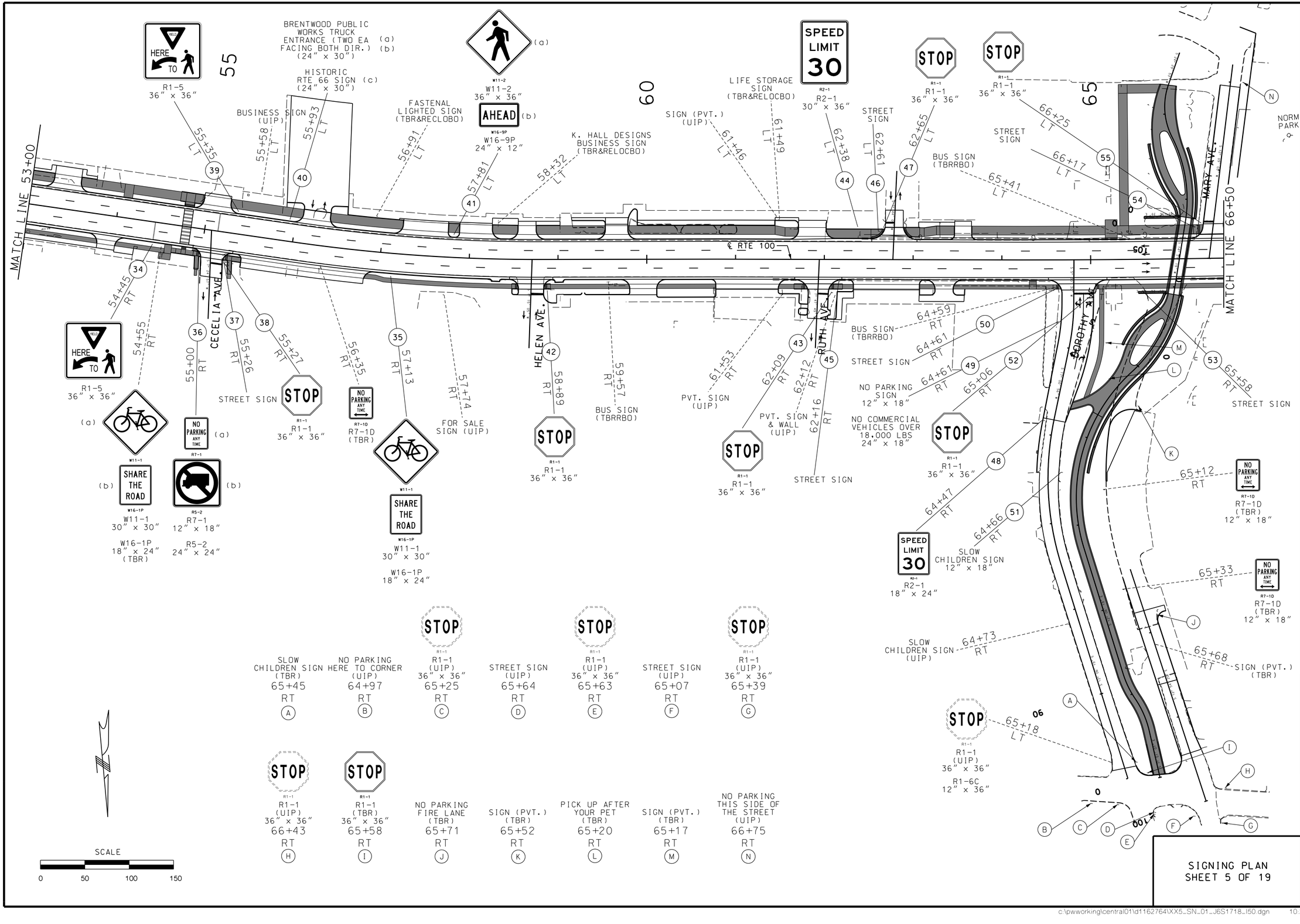
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



SLOW CHILDREN SIGN (TBR)	NO PARKING HERE TO CORNER (UIP)	R1-1 (UIP) 36" x 36"	STREET SIGN (UIP)	R1-1 (UIP) 36" x 36"	STREET SIGN (UIP)	R1-1 (UIP) 36" x 36"
65+45 RT	64+97 RT	65+25 RT	65+64 RT	65+63 RT	65+07 RT	65+39 RT
A	B	C	D	E	F	G

R1-1 (UIP) 36" x 36"	R1-1 (TBR) 36" x 36"	NO PARKING FIRE LANE (TBR)	SIGN (PVT.) (TBR)	PICK UP AFTER YOUR PET (TBR)	SIGN (PVT.) (TBR)	NO PARKING THIS SIDE OF THE STREET (UIP)
66+43 RT	65+58 RT	65+71 RT	65+52 RT	65+20 RT	65+17 RT	66+75 RT
H	I	J	K	L	M	N

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DATE PREPARED	
2/4/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN005

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIGNING PLAN
SHEET 5 OF 19

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DATE PREPARED	
2/4/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN006
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

MATCH LINE 66+50

MATCH LINE 80+00

70

75

¢ RTE 100

BRENTWOOD BLVD.

NORM WEST PARK SIGN
56
66+68 LT
66+73 LT

BUSINESS SIGN NON-LIGHTED (TBRRBO)
67+84 LT

MANCHESTER OFFICE NON-LIGHTED SIGN (TBR&RELOCBO)
57
68+74 LT

PVT. SIGN
69+53 LT

ARBY'S ENTER & EXIT SIGNS (TBR&RELOCBO)
59
70+55 LT

BUSINESS SIGN (UIP)
71+03 LT

(a) EAST
M3-2
M3-2
24" x 12"

(b) 100
M1-5
M1-5
30" x 24"

(c) HISTORIC RTE 66 BYWAY
24" x 30"

R4-7
R4-7
24" x 30"
60
73+35 LT

BUSINESS SIGN & WALL (UIP)
73+63 LT

(a)
W11-1
SHARE THE ROAD (b)
W16-1P
W11-1
30" x 30"
W16-1P
18" x 24"
62
74+56 LT

R4-7
R4-7
24" x 30"
63
76+31 LT

BUS SIGN (TBRRBO)
75+95 LT

R4-7
R4-7
24" x 30"
65
77+36 LT

BUSINESS SIGNS (2) (UIP)
76+64 LT

COUNTY MAINTENANCE SIGN (UIP)
77+92 LT

YIELD
R1-2
R1-2
36"
67
78+00 LT

W012-1
W12-1
36" x 36"
68
78+00 LT

BEGIN RIGHT TURN LANE YIELD TO BIKES
R4-4
R4-4
36" x 30"
71
79+71 LT

BUSINESS SIGN (UIP)
78+34 LT

58
69+43 RT

(a)
S1-1
S1-1
36" x 36"

(b) AHEAD
W16-9P
W16-9P
24" x 12"

69+43 RT
PHULOC CENTER SIGN & GROUND LIGHT (TBR&RELOCBO)

61
74+52 RT

BEGIN RIGHT TURN LANE YIELD TO BIKES
R4-4
R4-4
36" x 30"

74+52 RT
ONE WAY
R6-2L
R6-2
18" x 24"
(UIP)

64
76+72 RT

COUNTY MAINTENANCE SIGN

77+86 LT
W012-1
W12-1
36" x 36"
(UIP)

66
77+92 LT

R4-7
R4-7
24" x 30"

69
78+05 RT

YIELD
R1-2
R1-2
36"

70
78+29 RT

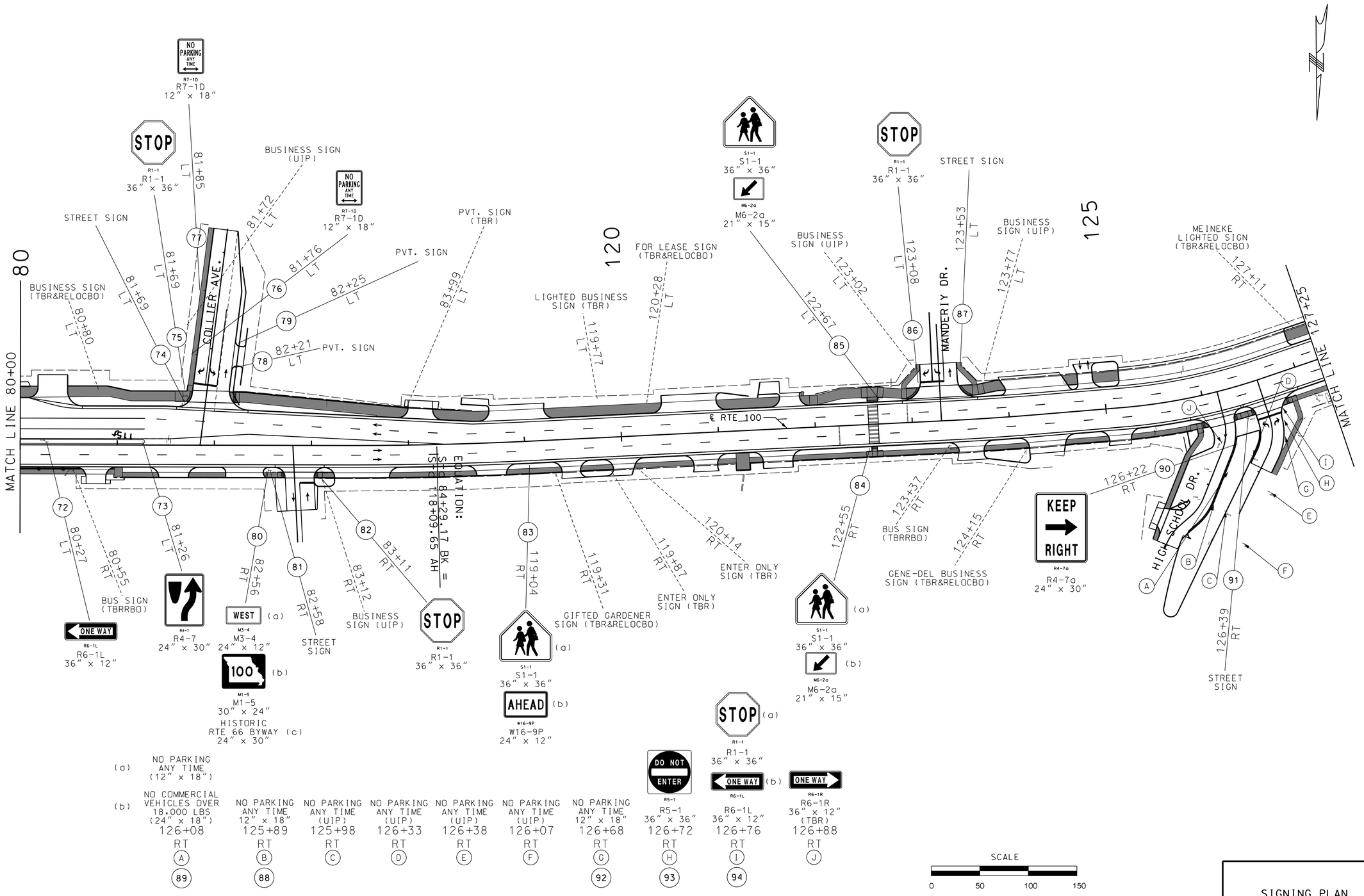
BUSINESS SIGN (UIP)
78+51 RT

(a)
W11-1
SHARE THE ROAD (b)
W16-1P
W11-1
30" x 30"
W16-1P
18" x 24"

SCALE
0 50 100 150

SIGNING PLAN
SHEET 6 OF 19

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SIGNING PLAN
SHEET 7 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN007

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

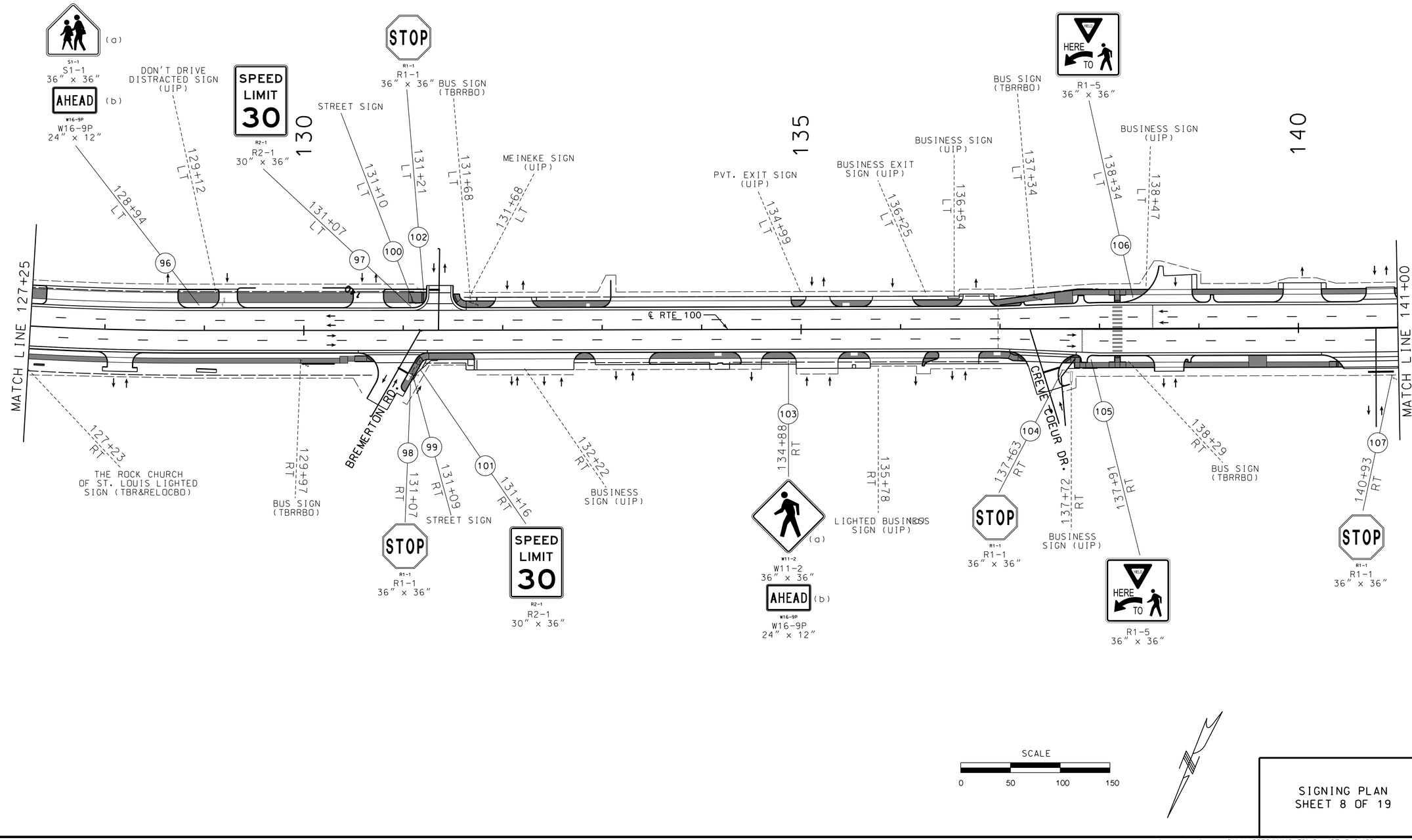
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



SIGNING PLAN
SHEET 8 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN008

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

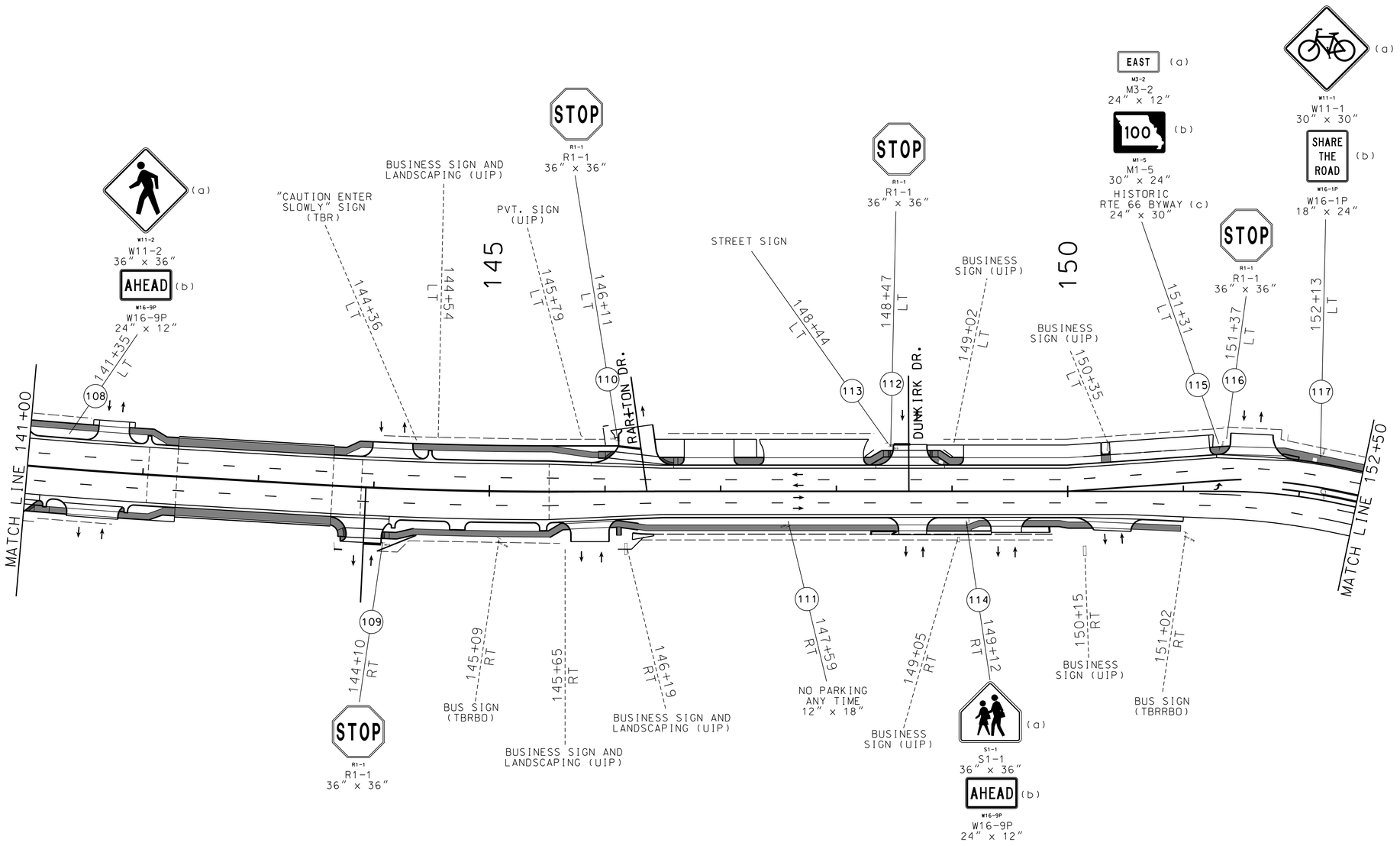
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DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



SIGNING PLAN
SHEET 9 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN009

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

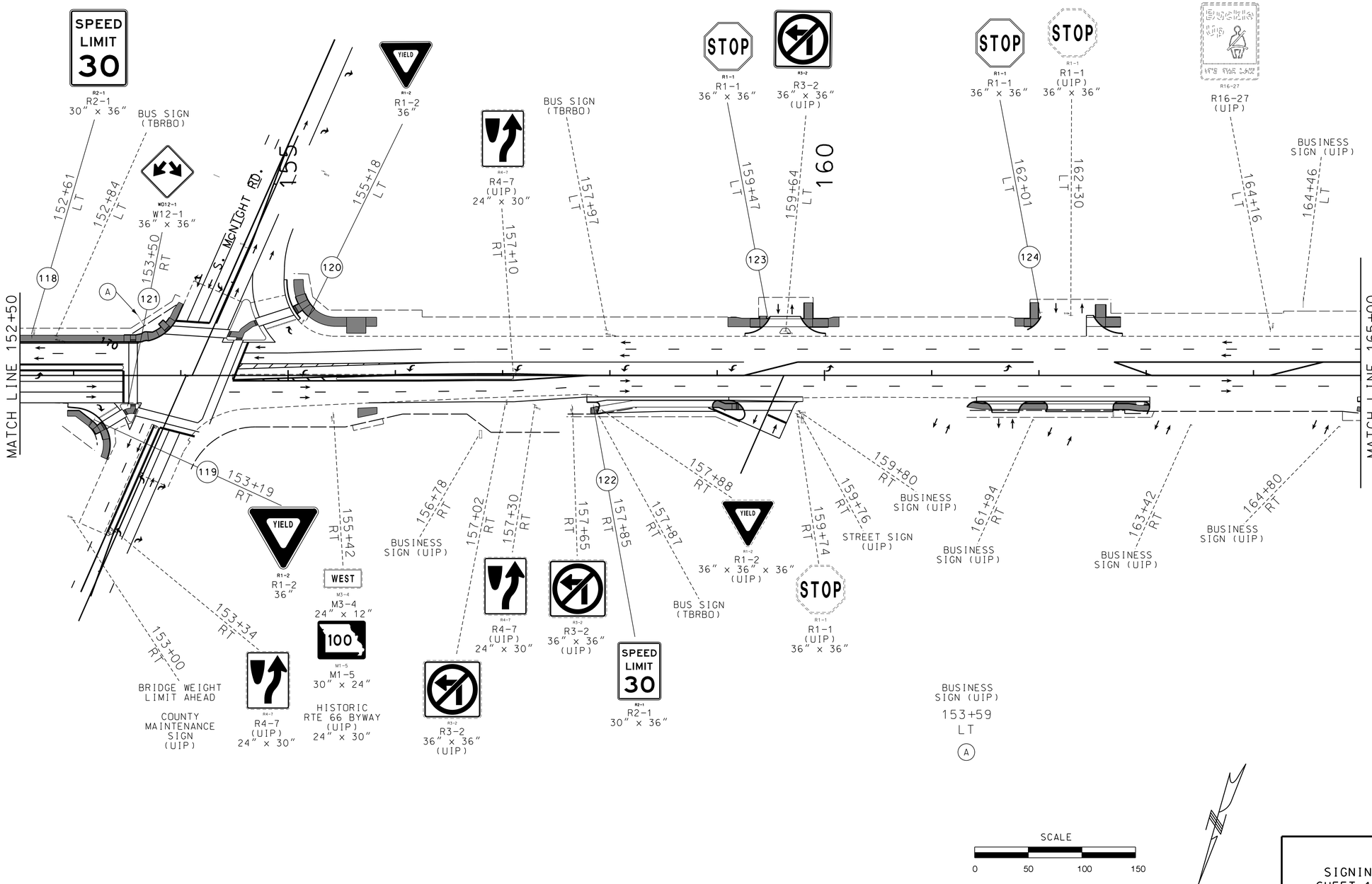
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



SIGNING PLAN
SHEET 10 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SN010
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

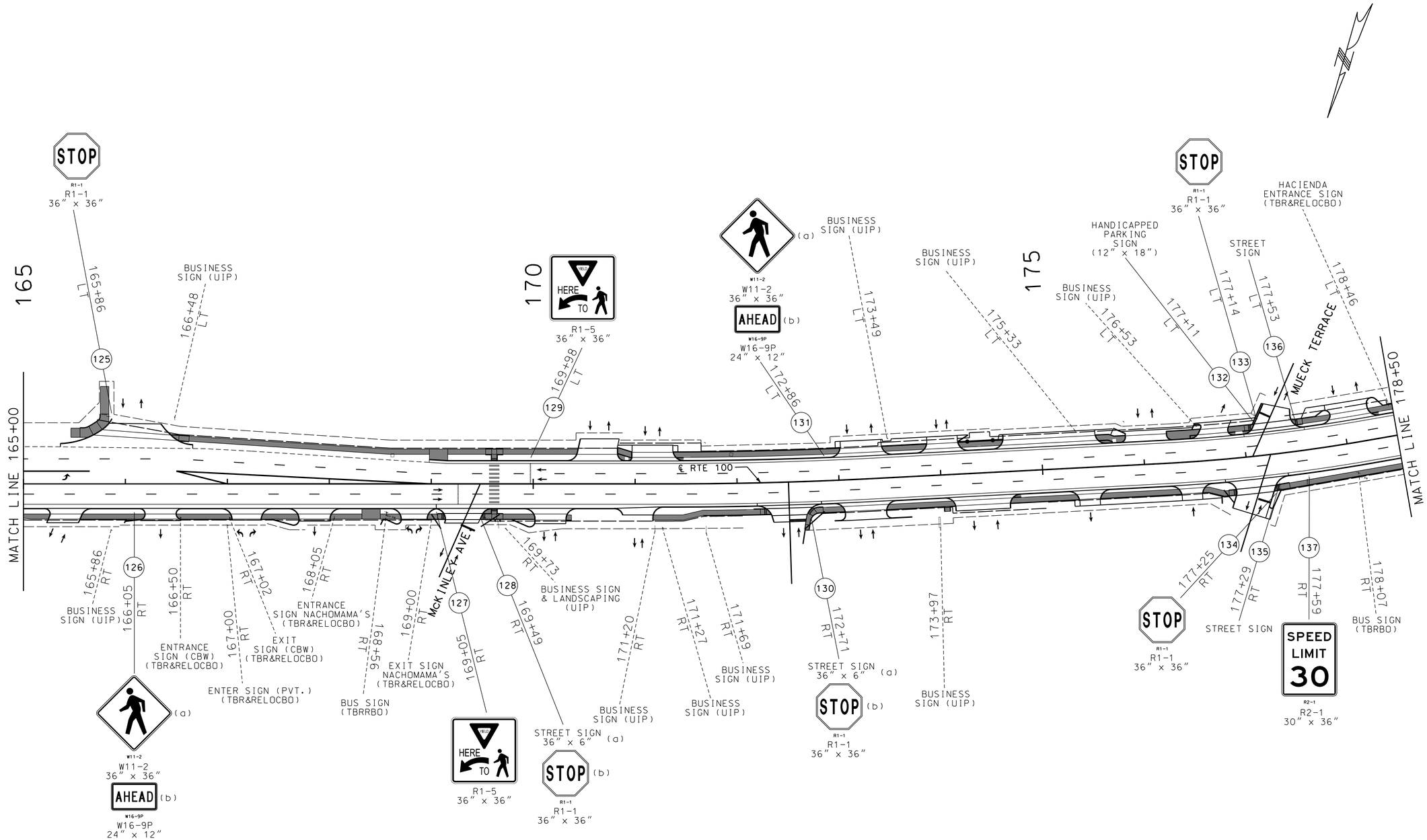
DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SN011
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

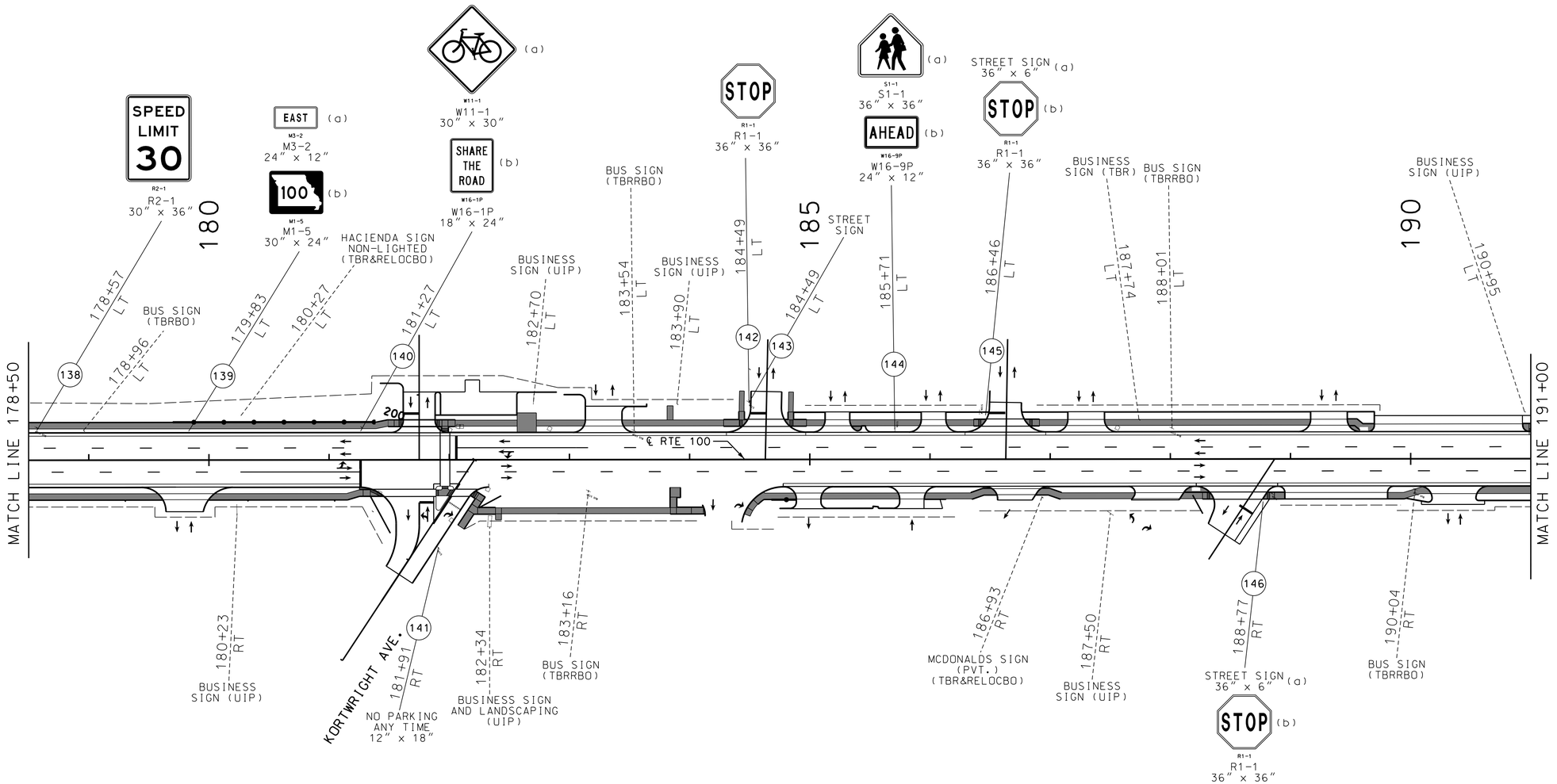
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
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314-425-8300
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SIGNING PLAN
SHEET 11 OF 19

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SN012
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

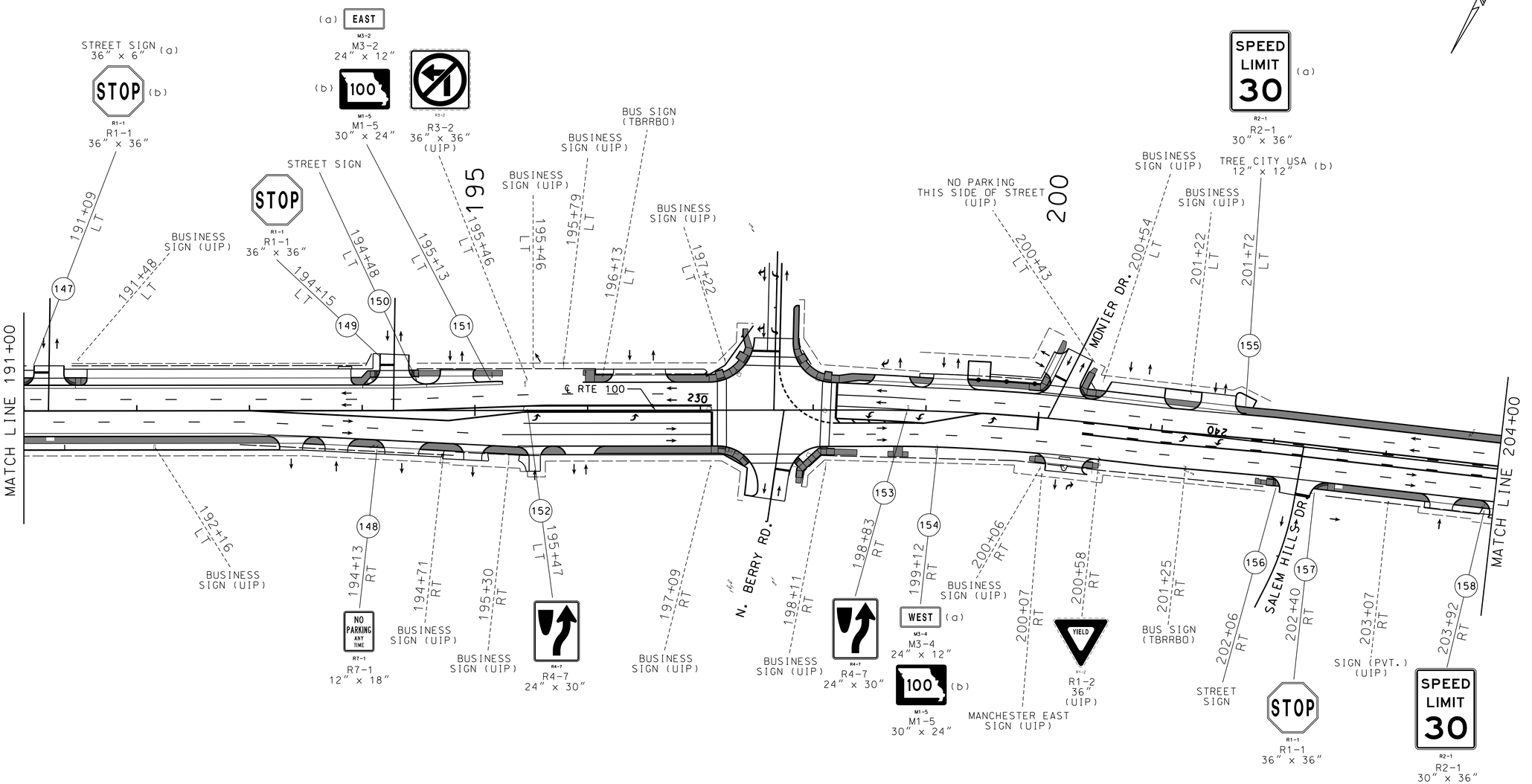
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
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SIGNING PLAN
SHEET 12 OF 19

REV.

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN013

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

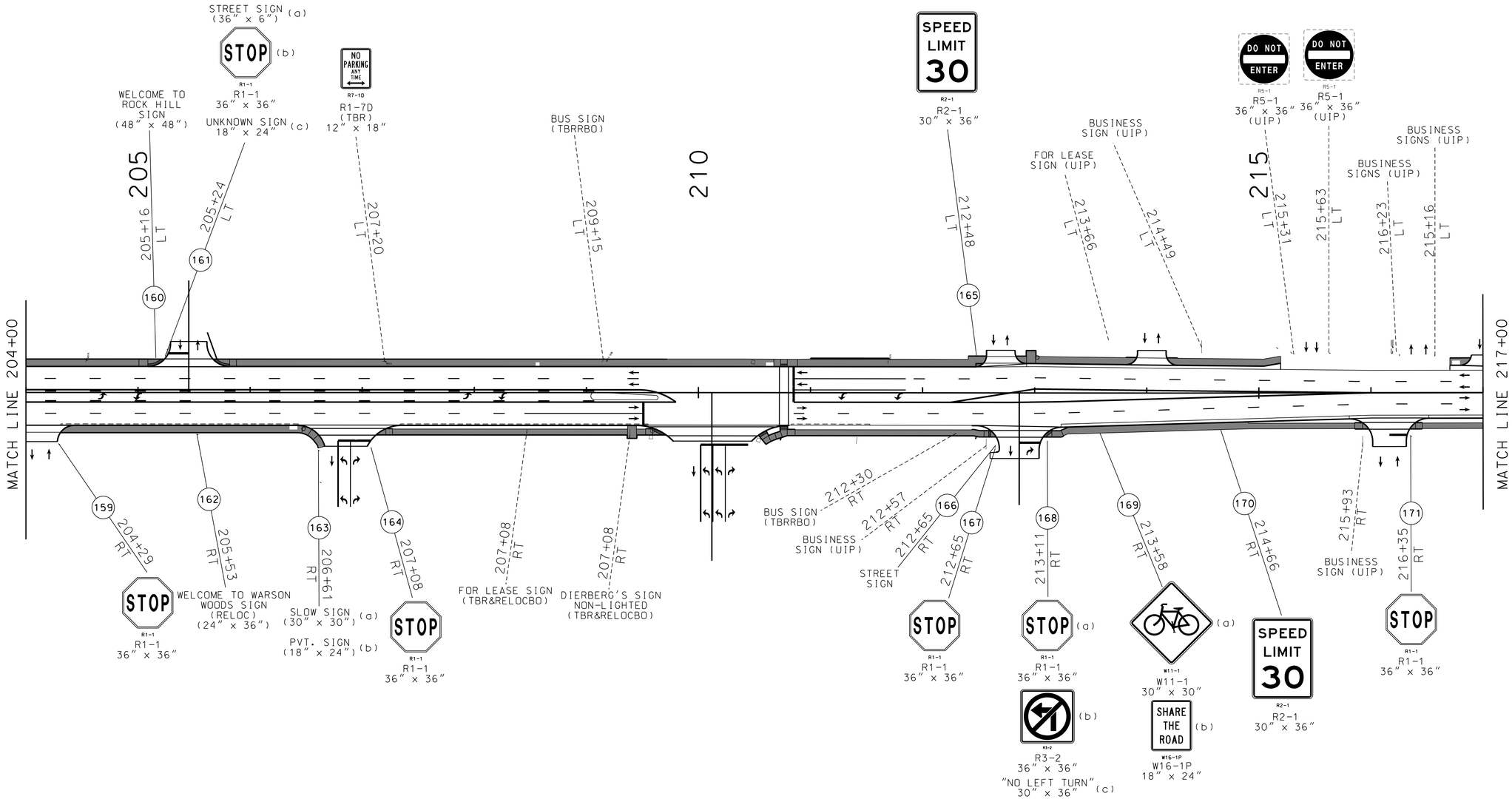
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

SIGNING PLAN
SHEET 13 OF 19

REV.



SIGNING PLAN
SHEET 14 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN014

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

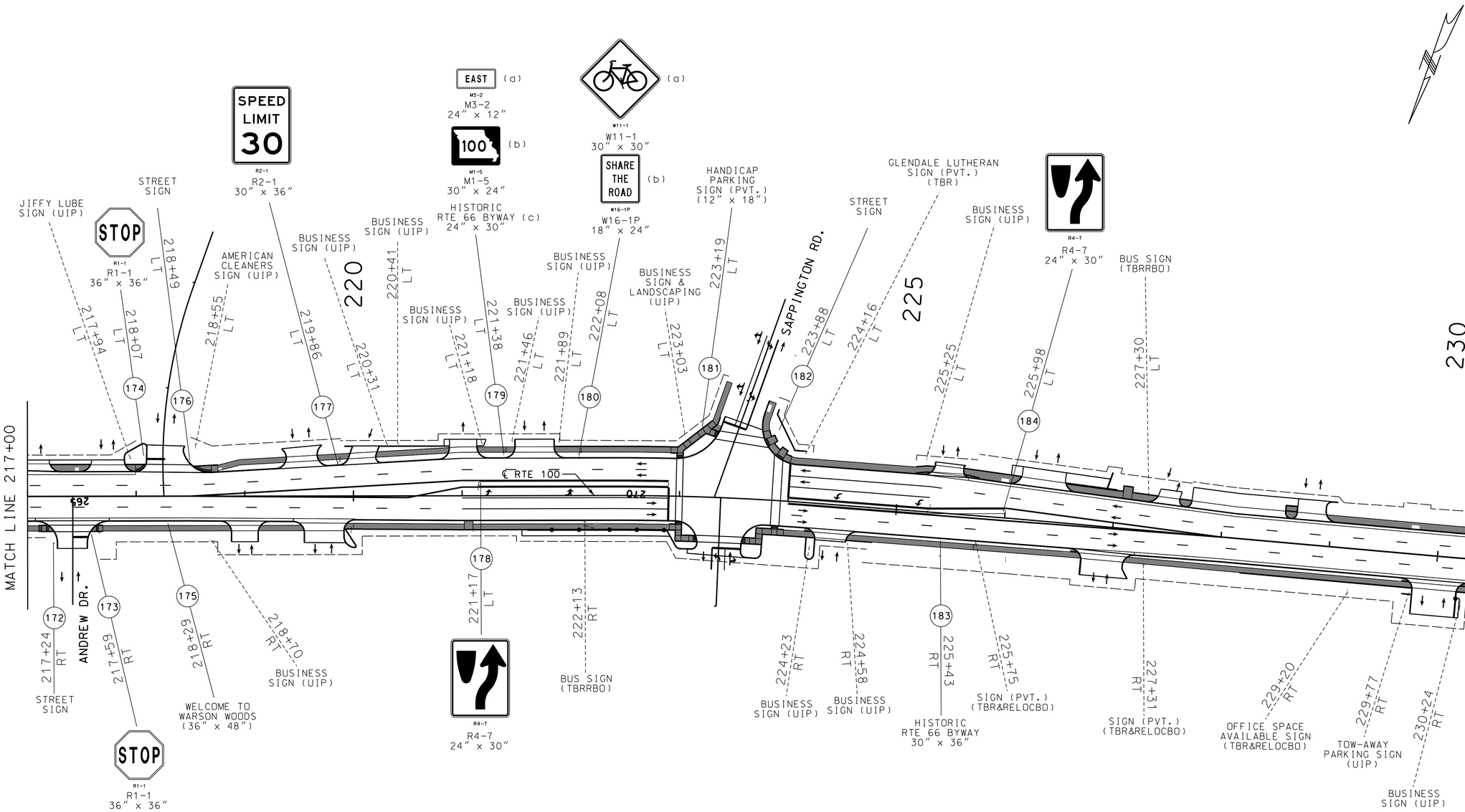
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN015

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

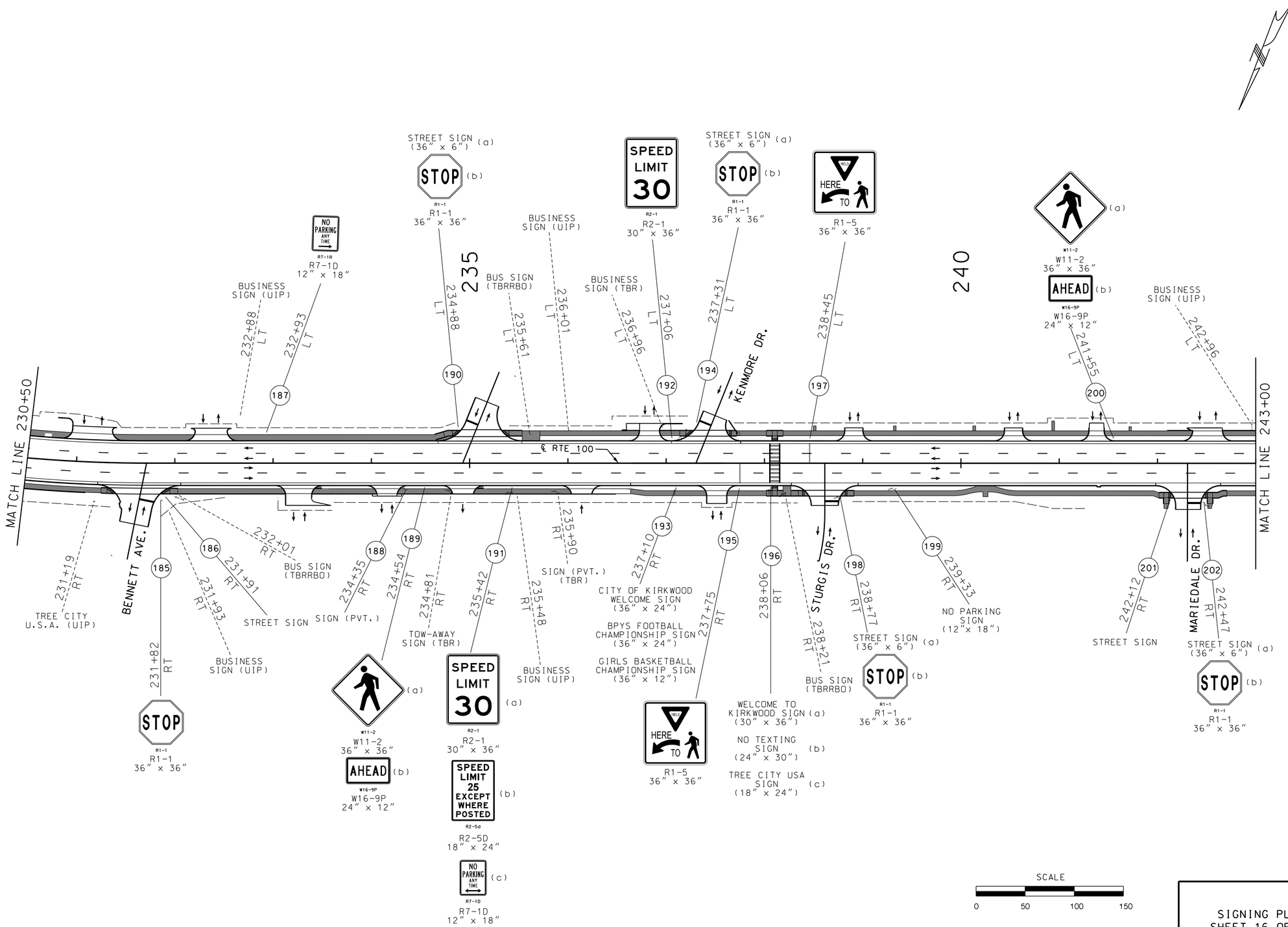
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

SIGNING PLAN
SHEET 15 OF 19

REV.



SIGNING PLAN
SHEET 16 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN016

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

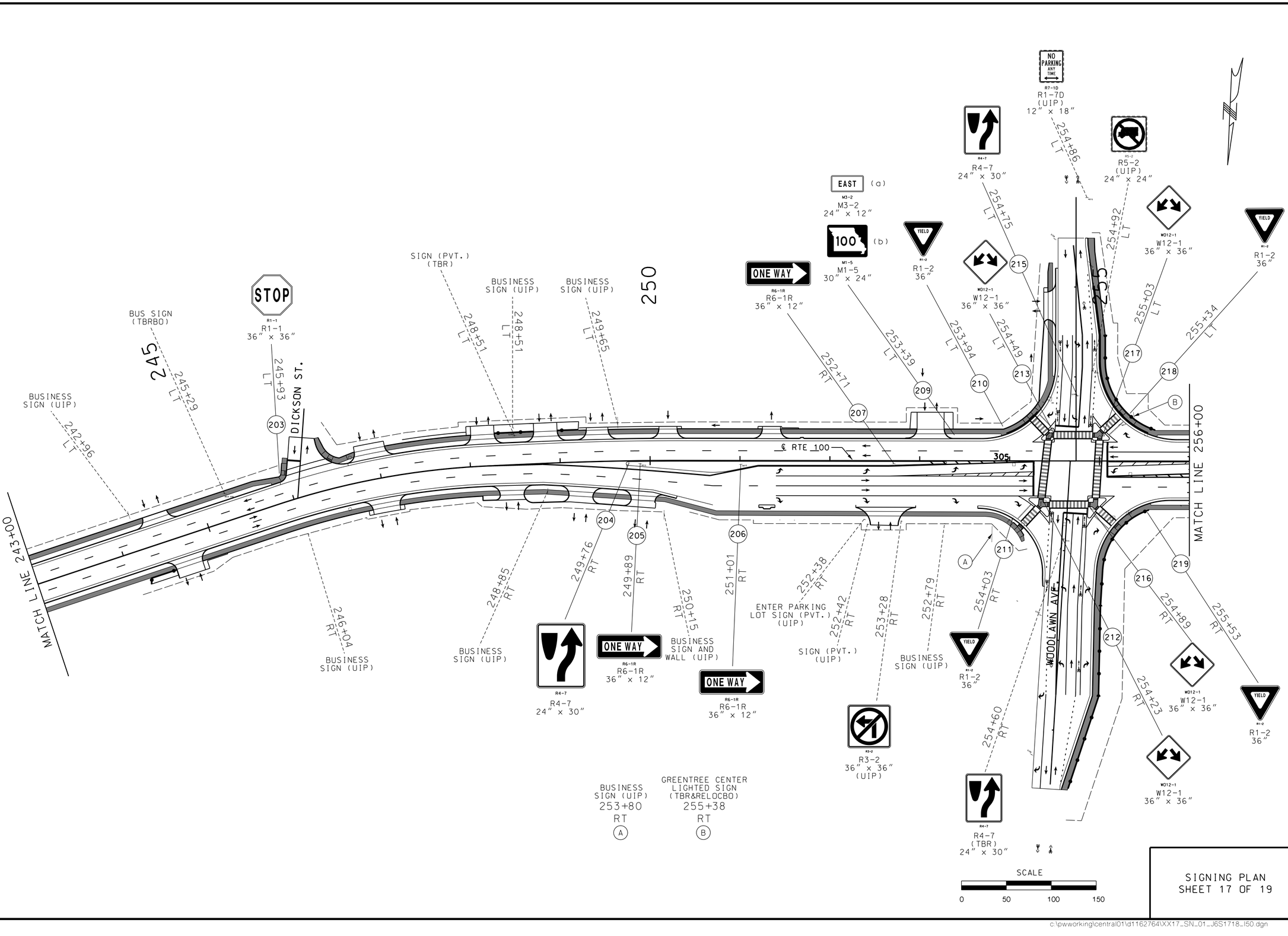
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
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314-425-8300
Certificate of Authority: 000856

REV.



SIGNING PLAN
SHEET 17 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	2/4/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	SN017
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

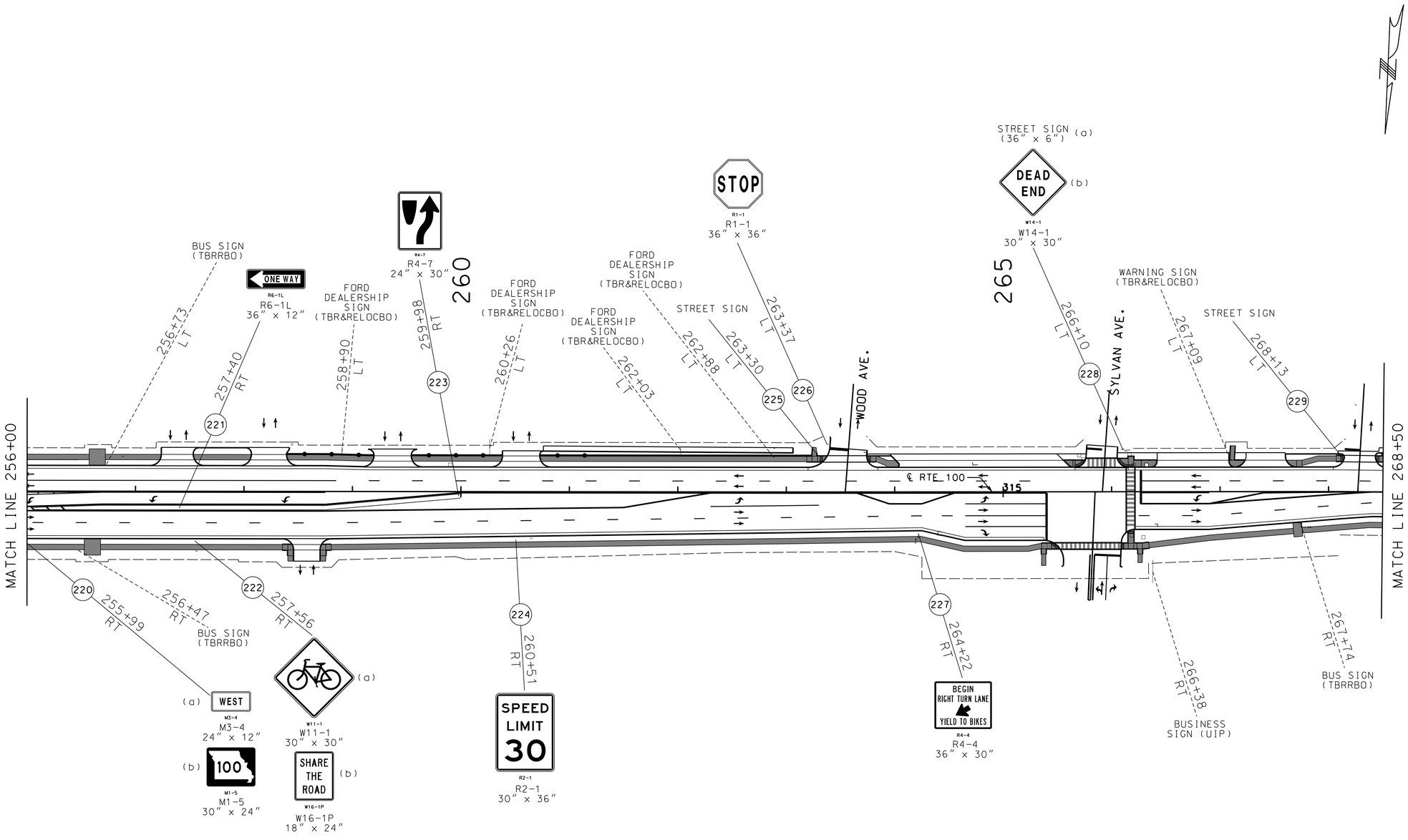
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



SIGNING PLAN
SHEET 18 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN018

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

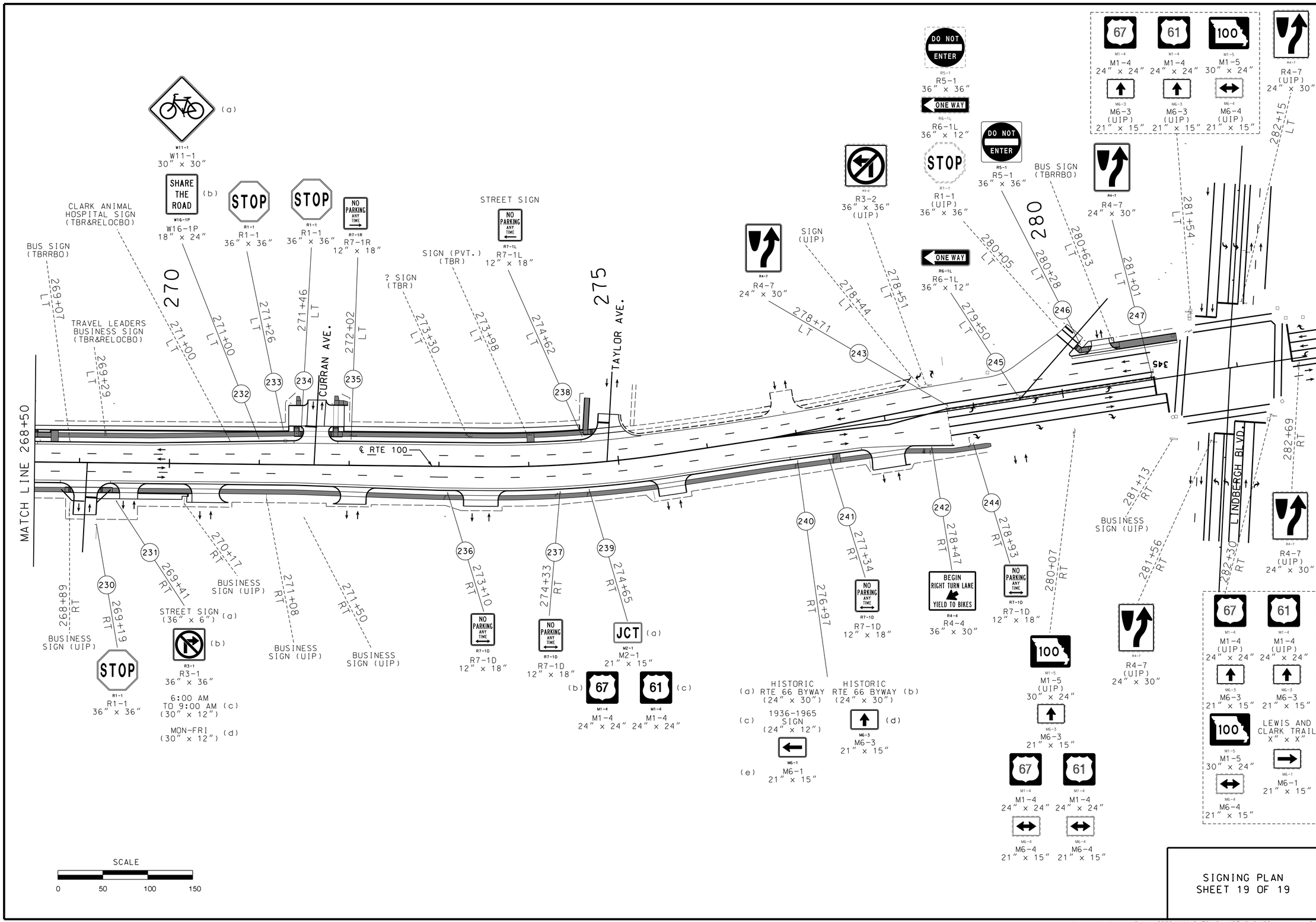
DESCRIPTION
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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HDR Engineering, Inc.
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SIGNING PLAN
SHEET 19 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	SN019

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL: POSTS ✳						BACKING BARS (2" X 3/16" BARS @ 2.55 LBS PER LIN FT)				TOTAL	U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST: 2 IN							2.5 IN						BREAK-AWAY ASSEMBLY	FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282		EMBD ITEM NO. 9031010	BOLT DOWN ITEM NO. 9031020	
						IN.	LF	LF		LBS		LF	LF	LF		LBS	EACH	IN.	LF	LBS	LBS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	CU YDS	CU YDS	
1	36"x36" 24"x12"	19+75		℄ RTE 100 (RT)																			14.75		14.75			3												
2	36"x36"	22+60		℄ RTE 100 (RT)																			13		13			3												
3	36"x36"	23+30		℄ RTE 100 (LT)																			13		13			3												
4	36"x36" 24"x12"	26+30		℄ RTE 100 (LT)																			14.75		14.75			3												
5	36"	30+14	6.67	℄ RTE 100 (RT)																			13		13			3												
6	24"x36"	30+16	6.67	℄ RTE 100 (RT)																		12.5																		
7	36"x36"	30+33		℄ RTE 100 (RT)																			14.5		14.5			3												
8	30"x36"	32+96	7.75	℄ RTE 100 (RT)																			13.5		13.5			3												REUSE SIGN ON NEW POST
9	30"x36" 36"x30" 30"	33+02	6.42	℄ RTE 100 (RT)		4	20.25		10.79	218.5																											1	0.36		REUSE SPECIAL SIGN ON NEW POST
11	24"x12" 30"x24"	34+00		℄ RTE 100 (RT)																			12.25		12.25			3												
12	36"x30"	38+88	11.67	℄ RTE 100 (RT)																			12.5		12.5			3												
13		39+70		℄ RTE 100 (LT)																																				SIGN CHANGED TO DND
14	36"	40+01	20.33	℄ RTE 100 (RT)																			13		13			3												
15		40+04		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
16		40+13		℄ RTE 100 (LT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
17	36"x36" 24"x12"	40+45		℄ RTE 100 (RT)																			14.75		14.75			3												
18	36"x36"	43+45		℄ RTE 100 (RT)																			13		13			3												
19	36"x36"	44+15		℄ RTE 100 (LT)																			13		13			3												
20	36"x36"	44+20	11.50	℄ RTE 100 (RT)																			15		15			3												
21		44+22		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
22		45+51		℄ RTE 100 (LT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
23	36"	44+89	20.00	℄ RTE 100 (LT)																			13		13			3												
24	12"x18"	47+70		℄ RTE 100 (RT)																		11.5																		REUSE SIGN ON NEW POST
25	36"x36" 24"x12"	47+45		℄ RTE 100 (LT)																			14.75		14.75			3												
26	36"x36"	48+05		℄ RTE 100 (RT)																			13		13			3												
27		48+08		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
28	12"x18"	51+12		℄ RTE 100 (RT)																			11.5		11.5			3												
29	30"x36"	51+33		℄ RTE 100 (LT)																			13		13			3												
30	36"x36" 24"x12"	51+35		℄ RTE 100 (RT)																			14.75		14.75			3												
31	36"x6" 36"	51+74		℄ RTE 100 (RT)		4	15.25		10.79	164.5																											1	0.36		
32		51+78		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
33	30"x36"	51+82		℄ RTE 100 (RT)																			13		13			3												
34	36"x36"	54+45		℄ RTE 100 (RT)																			13		13			3												
35	30"x30" 18"x24"	57+13		℄ RTE 100 (RT)																			15		15			3												
36	12"x18" 24"x24"	55+00	20.16	℄ RTE 100 (RT)																		12.75																		
37		55+26		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
38	36"	55+27	8.50	℄ RTE 100 (RT)																			13		13			3												
39	36"x36"	55+35		℄ RTE 100 (LT)																			13		13			3												
40	24"x30" 24"x30"	55+93		℄ RTE 100 (LT)		4	16.75		10.79	180.7																											1	0.36		REUSE SIGNS ON NEW POST
41	36"x36" 24"x12"	57+81		℄ RTE 100 (LT)																			14.75		14.75			3												
42	36"	58+89	10.42	℄ RTE 100 (RT)																			12.75		12.75			3												
43	36"	62+09	7.42	℄ RTE 100 (RT)																			12.50		12.50			3												
44	30"x36"	62+38	11.50	℄ RTE 100 (LT)																			13.50		13.50			3												
45		62+16		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
46		62+61		℄ RTE 100 (LT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
47	36"	62+65	11.75	℄ RTE 100 (LT)																			12.75		12.75			3												
		SUBTOTAL								563.7												36.75			403.25			90									3	2.25		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'-3½"	12"	4'-6"	0.13
3	7.58	0.63	4'-3½"	12"	4'-6"	0.13
4	10.79	0.90	5'-3½"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

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DATE PREPARED: 2/4/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: D291
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
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314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL: POSTS ✳						BACKING BARS 2" X 3/16" BARS @ 2.55 LBS PER LIN FT				TOTAL	U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST: 2 IN							2.5 IN							FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	EMBD ITEM NO. 9031010	BOLT DOWN ITEM NO. 9031020	
						IN.	LF	LF	LF	LBS		LF	LF	LF		LBS	EACH	IN.	LF	LBS	LBS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	CU YDS	CU YDS	
48	18"x24"	64+47		℄ RTE 100 (RT)																			11.75		11.75			3												
49	12"x18" 24"x18"	64+61		℄ RTE 100 (RT)																			12.50		12.50			3												REUSE SIGNS ON NEW POST
50		64+61		℄ RTE 100 (RT)																																0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
51	12"x18"	64+66		℄ RTE 100 (RT)																			11.5		11.5			3												
52	36"	65+06		℄ RTE 100 (RT)																			13		13			3												
53		65+58		℄ RTE 100 (RT)																																0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
54		66+17		℄ RTE 100 (LT)																																0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
55	36"	66+25	15.16	℄ RTE 100 (LT)																			12.75		12.75			3												
56	12"x18"	66+68	22.50	℄ RTE 100 (LT)																			11.5		11.5			3												REUSE SIGN ON NEW POST
57	18"x24"	68+74	16.00	℄ RTE 100 (LT)																		11.75																		
58	36"x36" 24"x12"	69+43	9.75	℄ RTE 100 (RT)																			13.50		13.50			3												
59	24"x12" 30"x24" 24"x30"	71+03		℄ RTE 100 (LT)		4	17.50		10.79	188.8																									1	0.36		REUSE RTE 66 SIGN ON NEW POST
60	24"x30"	73+35		℄ RTE 100 (LT)																			12.50		12.50			3												
61	36"x30"	74+52		℄ RTE 100 (RT)																			12.50		12.50			3												
62	30"x30" 18"x24"	74+56		℄ RTE 100 (LT)																			15		15			3												
63	24"x30"	76+31		℄ RTE 100 (LT)																			12.50		12.50			3												
64	12"x12"	76+72	7.50	℄ RTE 100 (RT)																			11		11			3												REUSE SIGN ON NEW POST
65	24"x30"	77+36		℄ RTE 100 (LT)																			12.50		12.50			3												
66	24"x30"	77+92		℄ RTE 100 (RT)																			12.50		12.50			3												
67	36"	78+00		℄ RTE 100 (LT)																			13		13			3												
68	36"x36"	78+00		℄ RTE 100 (LT)																			14.50		14.50			3												
69	36"	78+05		℄ RTE 100 (RT)																			12.75		12.75			3												
70	30"x30" 18"x24"	78+29		℄ RTE 100 (RT)																			14.75		14.75			3												
71	36"x30"	79+71	12.75	℄ RTE 100 (LT)																			13.75		13.75			3												
72	36"x12"	80+27		℄ RTE 100 (LT)																			11		11			3												
73	24"x30"	81+26		℄ RTE 100 (LT)																			12.50		12.50			3												
75	36"x36"	81+69	16.75	℄ RTE 100 (LT)																			13		13			3												
76	12"x18"	81+76	6.00	℄ RTE 100 (LT)																			11.75		11.75			3												
77	12"x18"	81+85	6.00	℄ RTE 100 (LT)																			11.75		11.75			3												
78	18"x24"	82+21		℄ RTE 100 (LT)																		12																		
79	12"x18"	82+25		℄ RTE 100 (LT)																		11.50																		
80	24"x12" 30"x24" 24"x30"	82+56		℄ RTE 100 (RT)		4	17.5		10.79	188.8																									1	0.36		REUSE RTE 66 SIGN ON NEW POST
81		82+58		℄ RTE 100 (RT)																																0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
82	36"	83+11	11.50	℄ RTE 100 (RT)																			12.75		12.75			3												
83	36"x36" 24"x12"	119+04		℄ RTE 100 (RT)																			13.5		13.5			3												
84	36"x36" 21"x15"	122+55		℄ RTE 100 (RT)																			13.5		13.5			3												
85	36"x36" 21"x15"	122+67		℄ RTE 100 (LT)																			13.5		13.5			3												
86	36"	123+08	11.75	℄ RTE 100 (LT)																			13		13			3												
87		123+53		℄ RTE 100 (LT)																																0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
88	12"x18"	125+89		℄ RTE 100 (RT)																			11.75		11.75			3												REUSE SIGN ON NEW POST
89	12"x18" 24"x18"	126+08		℄ RTE 100 (RT)																			12.5		12.5			3												REUSE SIGNS ON NEW POST
90	24"x30"	126+22		℄ RTE 100 (RT)																			12		12			3												
91		126+39		℄ RTE 100 (RT)																																0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
92	12"x18"	126+68		℄ RTE 100 (RT)																			11.75		11.75			3												REUSE SIGN ON NEW POST
93	36"x36"	126+72		℄ RTE 100 (RT)																			14.5		14.5			3												
94	36" 36"x12"	126+76		℄ RTE 100 (RT)																			12.75		12.75			3												
SUBTOTAL										377.6											35.25				445.25			105							2	1.5		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2 1/2	5.79	0.48	4'-3 1/2"	12"	4'-6"	0.13
3	7.58	0.63	4'-3 1/2"	12"	4'-6"	0.13
4	10.79	0.90	5'-3 1/2"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D292

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

c:\pwworking\central01\d1472029\D29_2.dgn 10:25:10 AM 2/4/2020

EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL: POSTS ✳						BACKING BARS 2" X 3/16" BARS @ 2.55 LBS PER LIN FT					U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST: 2 IN							PERFORATED SQUARE STEEL TUBE POST: 2.5 IN								FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL LBS	NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	TOTAL ITEM NO. 9031210 LBS	ITEM NO. 9031250 LF	POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031270A LF	ANCHOR 7 GA. ITEM NO. 9031273 LF	OMNI 7 GA. ITEM NO. 9031279 LF	ANCHOR 12 GA. ITEM NO. 9031271 LF	OMNI 12 GA. ITEM NO. 9031278 LF	POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT ITEM NO. 9031272 LF	ANCHOR 7 GA. ITEM NO. 9031281 LF	OMNI 7 GA. ITEM NO. 9031282 LF	BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EACH	EMBD ITEM NO. 9031010 CU YDS	BOLT DOWN ITEM NO. 9031020 CU YDS	
						IN.	LF	LF		LBS		LF	LF	LF		LBS		IN.	LF	LBS	LBS	LF																	
96	36"x36" 24"x12"	128+94		℄ RTE 100 (LT)																			13.5		13.5			3												
97	30"x36"	131+07		℄ RTE 100 (LT)																			13		13			3												
98	36"x36"	131+07		℄ RTE 100 (RT)																			13		13			3												
99		131+09		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
100		131+10		℄ RTE 100 (LT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
101	30"x36"	131+16		℄ RTE 100 (RT)																			13		13			3												
102	36"	131+21	13.66	℄ RTE 100 (LT)																			13		13			3												
103	36"x36" 24"x12"	134+88		℄ RTE 100 (RT)																			14.75		14.75			3												
104	36"	137+63	6.75	℄ RTE 100 (RT)																			12.5		12.5			3												
105	36"x36"	137+91		℄ RTE 100 (RT)																			13		13			3												
106	36"x36"	138+34		℄ RTE 100 (LT)																			13		13			3												
107	36"	140+93	6.75	℄ RTE 100 (RT)																			12.5		12.5			3												
108	36"x36" 24"x12"	141+35		℄ RTE 100 (LT)																			14.75		14.75			3												
109	36"	144+10	10.25	℄ RTE 100 (RT)																			12.5		12.5			3												
110	36"	146+11		℄ RTE 100 (LT)																			12.5		12.5			3												
111	12"x18"	147+59		℄ RTE 100 (RT)																			11.5		11.5			3												
112	36"	148+47		℄ RTE 100 (LT)																			12.5		12.5			3												
113		148+44		℄ RTE 100 (LT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
114	36"x36" 24"x12"	149+12		℄ RTE 100 (RT)																			13.5		13.5			3												
115	24"x12" 30"x24" 24"x30"	151+31	7.50	℄ RTE 100 (LT)		3	16.5		7.58	125.1																									1	0.13		REUSE RTE 66 SIGN ON NEW POST
116	36"x36"	151+37	8.00	℄ RTE 100 (LT)																			13		13			3												
117	30"x30" 18"x24"	152+13	8.24	℄ RTE 100 (LT)																			14.75		14.75			3												
118	30"x36"	152+61	7.75	℄ RTE 100 (LT)																			13.25		13.25			3												
119	36"	153+19		℄ RTE 100 (RT)																			12.75		12.75			3												
120	36"	155+18		℄ RTE 100 (LT)																			12.75		12.75			3												
121	36"x36"	153+50		℄ RTE 100 (RT)																			14.5		14.5			3												
122	30"x36"	157+85		℄ RTE 100 (RT)																			13		13			3												
123	36"	159+47		℄ RTE 100 (LT)																			13		13			3												
124	36"	162+01		℄ RTE 100 (LT)																			13		13			3												
125	36"	165+86		℄ RTE 100 (LT)																			13		13			3												
126	36"x36" 24"x12"	166+05		℄ RTE 100 (RT)																			14.75		14.75			3												
127	36"x36"	169+05		℄ RTE 100 (RT)																			13		13			3												
128	36"x6" 36"	169+49		℄ RTE 100 (RT)		3	15.25		7.58	115.6																									1	0.13		STREET SIGN TO BE REUSED ON NEW POST
129	36"x36"	169+98		℄ RTE 100 (LT)																			13		13			3												
130	36"x6" 36"	172+71	6.75	℄ RTE 100 (RT)		3	14.75		7.58	111.8																														STREET SIGN TO BE REUSED ON NEW POST
131	36"x36" 24"x12"	172+86		℄ RTE 100 (LT)																			14.75		14.75			3												
132	12"x18"	177+11		℄ RTE 100 (LT)																		11.5																		
133	36"	177+14		℄ RTE 100 (LT)																			13		13			3												
134	36"	177+25		℄ RTE 100 (RT)																			13		13			3												
135		177+29		℄ RTE 100 (RT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
136		177+53		℄ RTE 100 (LT)																																		0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
137	30"x36"	177+59		℄ RTE 100 (RT)																			13.25		13.25			3												
138	30"x36"	178+57		℄ RTE 100 (LT)																			13.25		13.25			3												
139	24"x12" 30"x24"	179+83		℄ RTE 100 (LT)																			13.5		13.5			3												
140	30"x30" 18"x24"	181+27		℄ RTE 100 (LT)																			16		16			3												
141	12"x18"	181+91		℄ RTE 100 (RT)																			11.5		11.5			3												
142	36"x36"	184+49		℄ RTE 100 (LT)																			13		13			3												
SUBTOTAL										352.5												11.5			503.5			114								3	1.04		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2 1/2	5.79	0.48	4'-3 1/2"	12"	4'-6"	0.13
3	7.58	0.63	4'-3 1/2"	12"	4'-6"	0.13
4	10.79	0.90	5'-3 1/2"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D293

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

c:\pwworking\central01\d1472029\D29_3.dgn 10:25:13 AM 2/4/2020

EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL: POSTS ✳						BACKING BARS (2" X 3/16" BARS @ 2.55 LBS PER LIN FT)				TOTAL	U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST: 2 IN							2.5 IN							FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	EMBD ITEM NO. 9031010	BOLT DOWN ITEM NO. 9031020	
						IN.	LF	LF	LF	LBS		LF	LF	LF		LBS	EACH	IN.	LF	LBS	LBS	LF	LF	LF	LF												EACH	CU YDS	CU YDS	
143		184+49		℄ RTE 100 (LT)																																			STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
144	36"x36" 24"x12"	185+71		℄ RTE 100 (LT)																			13.5		13.5			3												
145	36"x6" 36"	186+46		℄ RTE 100 (LT)		3	14.75		7.58	111.8																										1	0.13		STREET SIGN TO BE REUSED ON NEW POST
146	36"x6" 36"	188+77		℄ RTE 100 (RT)		3	14.75		7.58	111.8																										1	0.13		STREET SIGN TO BE REUSED ON NEW POST
147	36"x6" 36"	191+09		℄ RTE 100 (LT)		3	14.75		7.58	111.8																										1	0.13		STREET SIGN TO BE REUSED ON NEW POST
148	12"x18"	194+13	6.75	℄ RTE 100 (RT)																			11.75		11.75			3												
149	36"	194+15		℄ RTE 100 (LT)																			13		13			3												
150		194+48		℄ RTE 100 (LT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
151	24"x12" 30"x24"	195+13		℄ RTE 100 (LT)																			12.5		12.5			3												
152	24"x30"	195+47		℄ RTE 100 (LT)																			12.5		12.5			3												
153	24"x30"	198+83		℄ RTE 100 (RT)																			12.5		12.5			3												
154	24"x12" 30"x24"	199+12		℄ RTE 100 (RT)																			12.25		12.25			3												
155	30"x36" 12"x12"	201+72	7.50	℄ RTE 100 (LT)																			13.5		13.5			3											REUSE "TREE CITY USA" SIGN ON NEW POST
156		202+06		℄ RTE 100 (RT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
157	36"	202+40		℄ RTE 100 (RT)																			13		13			3												
158	30"x36"	203+92	8.00	℄ RTE 100 (RT)																			13.25		13.25			3												
159	36"x36"	204+29		℄ RTE 100 (RT)																			13		13			3												
161	36"x6" 18"x24" 36"x36"	205+24		℄ RTE 100 (LT)		4	17.5		10.79	188.8																										1	0.36		STREET SIGN TO BE REUSED ON NEW POST
163	30"x30" 18"x24"	206+61		℄ RTE 100 (RT)																			15		15			3											REUSE SIGN ON NEW POST
164	36"	207+08		℄ RTE 100 (RT)																			13		13			3												
165	30"x36"	212+48	11.25	℄ RTE 100 (LT)																			13.25		13.25			3												
166		212+65		℄ RTE 100 (RT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
167	36"x36"	212+65		℄ RTE 100 (RT)																			13		13			3												
168	36" 36"x36"	213+11		℄ RTE 100 (RT)		4	21		10.79	226.6																										1	0.36		REUSE SIGN ON NEW POST
169	30"x30" 18"x24"	213+58	7.75	℄ RTE 100 (RT)																			14.75		14.75			3												
170	30"x36"	214+66	7.50	℄ RTE 100 (RT)																			13.25		13.25			3												
171	36"	216+35		℄ RTE 100 (RT)																			13		13			3												
172		217+24		℄ RTE 100 (RT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
173	36"	217+59		℄ RTE 100 (RT)																			13		13			3												
174	36"	218+07		℄ RTE 100 (RT)																			13		13			3												
176		218+49		℄ RTE 100 (LT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
177	30"x36"	219+86		℄ RTE 100 (LT)																			13.25		13.25			3												
178	24"x30"	221+17		℄ RTE 100 (LT)																			12.5		12.5			3												
179	24"x12" 30"x24" 24"x30"	221+38		℄ RTE 100 (LT)		3	16.5		7.58	125.1																										1	0.13		REUSE RTE 66 SIGN ON NEW POST
180	30"x30" 18"x24"	222+08		℄ RTE 100 (LT)																			14.5		14.5			3												
181	12"x18"	223+19		℄ RTE 100 (LT)																			11.75		11.75			3											REUSE SIGN ON NEW POST
182		223+88		℄ RTE 100 (LT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
183	30"x36"	225+43		℄ RTE 100 (RT)																			13.25		13.25			3											REUSE SIGN ON NEW POST
184	24"x30"	225+98		℄ RTE 100 (LT)																			12.5		12.5			3												
185	36"x36"	231+82		℄ RTE 100 (RT)																			13		13			3												
186		231+91		℄ RTE 100 (RT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
187	12"x18"	232+93		℄ RTE 100 (LT)																			11.75		11.75			3												
188	24"x30"	234+35		℄ RTE 100 (RT)																			12.5		12.5			3											REUSE SIGN ON NEW POST
189	36"x36" 24"x12"	234+54		℄ RTE 100 (RT)																			14.75		14.75			3												
		SUBTOTAL								875.9															391.75			90								6	2.15		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2 1/2	5.79	0.48	4'-3 1/2"	12"	4'-6"	0.13
3	7.58	0.63	4'-3 1/2"	12"	4'-6"	0.13
4	10.79	0.90	5'-3 1/2"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D294

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

c:\pwworking\central01\d1472029\D29_4.dgn 10:25:16 AM 2/4/2020

EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL												U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST														FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
											POSTS ✳						BACKING BARS 2" X 3/16" BARS @ 2.55 LBS PER LIN FT					TOTAL		2 IN						2.5 IN						BREAK-AWAY ASSEMBLY	EMBD	BOLT DOWN	
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH	TOTAL	TOTAL	TOTAL ITEM NO. 9031210	U CHANNEL POST ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	ITEM NO. 9031241	ITEM NO. 9031010	ITEM NO. 9031020 CU YDS	
190	36"x6" 36"	234+88		℄ RTE 100 (LT)		3	14.5		7.58	109.9													13.25		13.25			3								1	0.13		STREET SIGN TO BE REUSED ON NEW POST
191	30"x36" 18"x24" 12"x18"	235+42		℄ RTE 100 (RT)		3	17.5		7.58	132.7																										1	0.13		
192	30"x36"	237+06		℄ RTE 100 (LT)																																			
193	36"x24" 36"x24" 36"x12"	237+10		℄ RTE 100 (RT)		3	16.0	16.0	7.58	242.6																										2	0.26		REUSE SIGNS ON NEW POST
194	36"x6" 36"	237+31		℄ RTE 100 (LT)		3	14.5		7.58	106.1																													STREET SIGN TO BE REUSED ON NEW POST
195	36"x36"	237+75		℄ RTE 100 (RT)																			13		13			3								1	0.13		
196	30"x36" 24"x30" 18"x24"	238+06		℄ RTE 100 (RT)		4	19.5		10.79	210.4																										1	0.36		REUSE SIGN ON NEW POST
197	36"x36"	238+45		℄ RTE 100 (LT)																			13		13			3											
198	36"x6" 36"	238+77		℄ RTE 100 (RT)		3	14.75		7.58	111.8																													
199	12"x18"	239+33		℄ RTE 100 (RT)																			11.75		11.75			3											
200	36"x36" 24"x12"	241+55		℄ RTE 100 (LT)																			14.75		14.75			3											
201		242+12		℄ RTE 100 (RT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
202	36"X6" 36"x36"	242+47		℄ RTE 100 (RT)		3	14.75		7.58	111.8																										1	0.13		STREET SIGN TO BE REUSED ON NEW POST
203	36"	245+93		℄ RTE 100 (LT)																			13		13			3											
204	24"x30"	249+76		℄ RTE 100 (RT)																			12.5		12.5			3											
205	36"x12"	249+89		℄ RTE 100 (RT)																			11		11			3											
206	36"x12"	251+01		℄ RTE 100 (RT)																			11		11			3											
207	36"x12"	252+71		℄ RTE 100 (RT)																			11		11			3											
209	24"x12" 30"x24"	253+39		℄ RTE 100 (LT)																			12.25		12.25			3											
210	36"	253+94	8.00	℄ RTE 100 (LT)																			13		13			3											
211	36"	254+03		℄ RTE 100 (RT)																			13		13			3											
212	36"x36"	254+23		℄ RTE 100 (RT)																			14.5		14.5			3											
213	36"x36"	254+49		℄ RTE 100 (LT)																			14.5		14.5			3											
215	24"x30"	254+75		℄ RTE 100 (LT)																			12.5		12.5			3											
216	36"x36"	254+89		℄ RTE 100 (RT)																			14.5		14.5			3											
217	36"x36"	255+03		℄ RTE 100 (LT)																			14.5		14.5			3											
218	36"	255+34	8.00	℄ RTE 100 (LT)																			13		13			3											
219	36"	255+53	8.00	℄ RTE 100 (RT)																			13		13			3											
220	24"x12" 30"x24"	255+99		℄ RTE 100 (RT)																			12.25		12.25			3											
221	36"x12"	257+40		℄ RTE 100 (RT)																			11		11			3											
222	30"x30" 18"x24"	257+56		℄ RTE 100 (RT)																			14.5		14.5			3											
223	24"x30"	259+98		℄ RTE 100 (RT)																			12.5		12.5			3											
224	30"x36"	260+51		℄ RTE 100 (RT)																			13.25		13.25			3											
225		263+30		℄ RTE 100 (LT)																																	0.13		STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
226	36"	263+37		℄ RTE 100 (LT)																			13		13			3											
227	36"x30"	264+22		℄ RTE 100 (RT)																			12.75		12.75			3											
228	36"x6" 30"x30"	266+10		℄ RTE 100 (LT)																			13		13			3											STREET SIGN TO BE REUSED ON NEW POST
229		268+13		℄ RTE 100 (LT)																																			STREET SIGN-REUSE SIGN AND POST AT SAME HEIGHT
230	36"	269+19		℄ RTE 100 (RT)																			13		13			3											
231	36"x6" 30"x30" 30"x12" 30"x12"	269+41	4.00	℄ RTE 100 (RT)		4	18.5		10.79	199.6																										1	0.36		STREET SIGN TO BE REUSED ON NEW POST
232	30"x30" 18"x24"	271+00		℄ RTE 100 (LT)																			14.5		14.5			3											
	SUBTOTAL									1224.9															388.75			90								8	1.76		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'-3½"	12"	4'-6"	0.13
3	7.58	0.63	4'-3½"	12"	4'-6"	0.13
4	10.79	0.90	5'-3½"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D295

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL: POSTS ✳						BACKING BARS 2" X 3/16" BARS @ 2.55 LBS PER LIN FT				TOTAL	U CHANNEL POST	PERFORMED SQUARE STEEL TUBE POST: 2 IN							2.5 IN							FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH IN	TOTAL LF	TOTAL LBS	ITEM NO. 9031210 LBS	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	EMBD ITEM NO. 9031010	BOLT DOWN ITEM NO. 9031020 CU YDS	
233	36"	271+26	12.00	℄ RTE 100 (LT)																			13		13			3											
234	36"	271+46		℄ RTE 100 (LT)																			13		13			3											
235	12"x18"	272+02		℄ RTE 100 (LT)																			11.75		11.75			3											
236	12"x18"	273+10		℄ RTE 100 (RT)																			11.75		11.75			3											
237	12"x18"	274+33		℄ RTE 100 (RT)																			11.75		11.75			3											
238	12"x18"	274+62		℄ RTE 100 (LT)																			11.75		11.75			3											
239	21"x15" 24"x24" 24"x24"	274+65		℄ RTE 100 (RT)		2.5	15.25		5.79	88.3							2	50	8.3	21.3	21.3															1	0.13		
240	24"x30" 24"x30" 24"x12" 21"x15" 21"x15"	276+97		℄ RTE 100 (RT)		3	15.5		7.58	117.5							5	4x50 1x32	19.3	49.3	49.3															1	0.13		REUSE SPECIAL SIGNS ON NEW POST
241	12"x18"	277+34		℄ RTE 100 (RT)																			11.75		11.75			3											
242	36"x30"	278+47		℄ RTE 100 (RT)																			12.75		12.75			3											
243	24"x30"	278+71		℄ RTE 100 (LT)																			12.5		12.5			3											
244	12"x18"	278+93		℄ RTE 100 (RT)																			11.75		11.75			3											
245	36"x12"	279+50		℄ RTE 100 (LT)																			11		11			3											
246	36"x36"	280+28		℄ RTE 100 (LT)																			14.5		14.5			3											
247	24"x30"	281+01		℄ RTE 100 (LT)																			12.5		12.5			3											
SUBTOTAL SHEET 1										563.7											36.75				403.25			90							3	2.25		
SUBTOTAL SHEET 2										377.6											35.25				445.25			105							2	1.5		
SUBTOTAL SHEET 3										352.5											11.5				503.5			114							3	1.04		
SUBTOTAL SHEET 4										875.9											0				391.75			90							6	2.15		
SUBTOTAL SHEET 5										1224.9											0				388.75			90							8	1.76		
SUBTOTAL SHEET 6										205.8											0	70.6			159.75			39							3	0.26		
	TOTAL									3600.4											84.5	70.6			2292.3			528							25	8.96		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'-3½"	12"	4'-6"	0.13
3	7.58	0.63	4'-3½"	12"	4'-6"	0.13
4	10.79	0.90	5'-3½"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: D296
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

c:\pwworking\central01\d1472029\D29_6.dgn 10:25:25 AM 2/4/2020

EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						WOOD POST			REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	4"x4" LF	4"x6" LF	6"x6" LF	
10	48"x36"	33+53	12.00	℄ RTE 100 (RT)		19.75			
160	48"x48"	205+16	8.00	℄ RTE 100 (LT)			13.25		
162	24"x36"	205+53	8.00	℄ RTE 100 (RT)		13.25			
175	36"x48"	218+29		℄ RTE 100 (RT)			14.5		
SUBTOTAL						33.0	27.75		
TOTAL						33.0	27.75		

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'-3⅜"	12"	4'-6"	0.13
3	7.58	0.63	4'-3⅜"	12"	4'-6"	0.13
4	10.79	0.90	5'-3⅜"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE: 100 | STATE: MO

DISTRICT: SL | SHEET NO.: D29W

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

c:\pwworking\central01\d1472029\D29_Wood_Posts.dgn 10:25:28 AM 2/4/2020

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH																		
				R1-5 36"x36"	R1-2 36"x36"	R12-1 WEIGHT LIMIT XX TONS 24"x36"	W12-1 36"x36"	R2-1 SPEED LIMIT 30 30"x36"	M1-5 100 30"x24"	M3-4 WEST 24"x12"	R4-4 BEGIN RIGHT TURN LANE YIELD TO BIKES 36"x30"	R1-1 STOP 36"x36"	R7-1L NO PARKING ANY TIME 12"x18"	W11-1 30"x30"	W16-1P SHARE THE ROAD 18"x24"	R7-1 NO PARKING ANY TIME 12"x18"	R5-2 24"x24"	S1-1 36"x36"	W16-9P AHEAD 24"x12"	M3-2 EAST 24"x12"	W11-2 36"x36"
1	19+75	℄ RTE 100 (RT)	SH																1		1
2	22+60	℄ RTE 100 (RT)	SH	1																		
3	23+30	℄ RTE 100 (LT)	SH	1																		
4	26+30	℄ RTE 100 (LT)	SH																1		1
5	30+14	℄ RTE 100 (RT)	SH		1																	
6	30+16	℄ RTE 100 (RT)	SH			1																
7	30+33	℄ RTE 100	SH				1															
9	33+02	℄ RTE 100 (RT)	SH					1														
11	34+00	℄ RTE 100 (RT)	SH						1	1												
12	38+88	℄ RTE 100 (RT)	SH								1											
14	40+01	℄ RTE 100 (RT)	SH									1										
17	40+45	℄ RTE 100 (RT)	SH																1		1	
18	43+45	℄ RTE 100 (RT)	SH	1																		
19	44+15	℄ RTE 100 (LT)	SH	1																		
20	44+20	℄ RTE 100 (RT)	SH									1										
23	44+89	℄ RTE 100 (LT)	SH									1										
25	47+45	℄ RTE 100 (LT)	SH																1		1	
26	48+05	℄ RTE 100 (RT)	SH									1										
28	51+12	℄ RTE 100 (RT)	SH										1									
29	51+33	℄ RTE 100 (LT)	SH					1														
30	51+35	℄ RTE 100 (RT)	SH																1		1	
31	51+74	℄ RTE 100 (RT)	SH									1										
33	51+82	℄ RTE 100 (RT)	SH					1														
34	54+45	℄ RTE 100 (RT)	SH	1																		
35	57+13	℄ RTE 100 (RT)	SH											1	1							
36	55+00	℄ RTE 100 (RT)	SH													1	1					
38	55+27	℄ RTE 100 (RT)	SH									1										
39	55+35	℄ RTE 100 (LT)	SH	1																		
41	57+81	℄ RTE 100 (LT)	SH																1		1	
42	58+89	℄ RTE 100 (RT)	SH									1										
43	62+09	℄ RTE 100 (RT)	SH									1										
44	62+38	℄ RTE 100 (LT)	SH					1														
47	62+65	℄ RTE 100 (LT)	SH									1										
48	64+47	℄ RTE 100 (RT)	SH					1														
52	65+06	℄ RTE 100 (RT)	SH									1										
55	66+25	℄ RTE 100 (LT)	SH									1										
58	69+43	℄ RTE 100 (RT)	SH															1	1			
59	71+03	℄ RTE 100 (LT)	SH						1											1		
		TOTAL		6	1	1	1	5	2	1	1	11	1	1	1	1	1	1	7	1	6	

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
YIELD HERE TO CROSS R1-5		6	36"x36"	54			
YIELD SIGN R1-2		1	36"x36"	9			
WEIGHT LIMIT XX TONS R12-1		1	24"x36"	6			
DOUBLE DOWN ARROW SYMBOL W12-1		1	36"x36"	9			
SPEED LIMIT 30 R2-1		5	30"x36"	37.5			
STATE NUMBER SHIELD 100 M1-5		2	30"x24"	10			
WEST DIRECTION MARKER M3-4		1	24"x12"	2			
BEGIN RIGHT TURN LANE- YIELD TO BIKES R4-4		1	36"x30"	7.5			
STOP SIGN R1-1		11	36"x36"	99			
NO PARKING ANY TIME - LEFT R7-1L		1	12"x18"	1.5			
BICYCLE SYMBOL W11-1		1	30"x30"	6.25			
SHARE THE ROAD W16-1P		1	18"x24"	3			
NO PARKING ANY TIME R7-1		1	12"x18"	1.5			
NO TRUCKS R5-2		1	24"x24"	4			
SCHOOL CROSSING SIGN S1-1		1	36"x36"	9			
AHEAD W16-9P		7	24"x12"	14			
EAST DIRECTION MARKER M3-2		1	24"x12"	2			
PEDESTRIAN SYMBOL W11-2		6	36"x36"	54			
SUBTOTAL				329.25			

* ORANGE, YELLOW & YELLOW/GREEN

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D301

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

c:\pwworking\central01\d1472029\D30_1.dgn 10:25:33 AM 2/4/2020

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SIGN DESCRIPTION, SIZES & NUMBER OF EACH															
			R1-2 36"x36"	R4-7 24"x30"	W12-1 36"x36"	R7-1D 12"x18"	M1-5 30"x24"	M3-4 24"x12"	R4-4 36"x30"	R1-1 36"x36"	R6-1L 36"x12"	W11-1 30"x30"	W16-1P 18"x24"	W16-7P 21"x15"	R4-7A 24"x30"	S1-1 36"x36"	W16-9P 24"x12"	R5-1 36"x36"
60	73+35	℄ RTE 100		1														
61	74+52	℄ RTE 100 (RT)							1									
62	74+56	℄ RTE 100 (LT)										1	1					
63	76+31	℄ RTE 100		1														
65	77+36	℄ RTE 100 (LT)		1														
66	77+92	℄ RTE 100 (RT)		1														
67	78+00	℄ RTE 100 (LT)	1															
68	78+00	℄ RTE 100 (LT)			1													
69	78+05	℄ RTE 100 (RT)	1															
70	78+29	℄ RTE 100 (RT)										1	1					
71	79+71	℄ RTE 100 (LT)							1									
72	80+27	℄ RTE 100									1							
73	81+26	℄ RTE 100		1														
75	81+69	℄ RTE 100 (LT)								1								
76	81+76	℄ RTE 100 (LT)				1												
77	81+85	℄ RTE 100 (LT)				1												
80	82+56	℄ RTE 100 (RT)					1	1										
82	83+11	℄ RTE 100 (RT)								1								
83	119+04	℄ RTE 100 (RT)														1	1	
84	122+55	℄ RTE 100 (RT)												1		1		
85	122+67	℄ RTE 100 (LT)												1		1		
86	123+08	℄ RTE 100 (LT)								1								
89	126+08	℄ RTE 100 (RT)				1												
90	126+22	℄ RTE 100 (RT)													1			
92	126+68	℄ RTE 100 (RT)				1												
93	126+72	℄ RTE 100 (RT)																1
94	126+76	℄ RTE 100 (RT)								1	1							
		TOTAL	2	5	1	4	1	1	2	4	2	2	2	2	1	3	1	1

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	FLAT SHEET SH (ITEM NO. 9035004A)	FLAT SHEET FLUORESCENT SHF ✳ (ITEM NO. 9035069A)	STRUCTURAL ST (ITEM NO. 9035011A)	STRUCTURAL FLUORESCENT STF ✳ (ITEM NO. 9035071A)
YIELD SIGN R1-2		2	36"x36"	18			
KEEP RIGHT SYMBOL R4-7		5	24"x30"	25			
DOUBLE DOWN ARROW SYMBOL W12-1		1	36"x36"	9			
NO PARKING ANY TIME R7-1D		4	12"x18"	6			
STATE NUMBER SHIELD 100 M1-5		1	30"x24"	5			
WEST DIRECTION MARKER M3-4		1	24"x12"	2			
BEGIN RIGHT TURN LANE-YIELD TO BIKES R4-4		2	36"x30"	15			
STOP SIGN R1-1		4	36"x36"	36			
ONE WAY IN LEFT ARROW R6-1L		2	36"x12"	6			
BICYCLE SYMBOL W11-1		2	30"x30"	12.5			
SHARE THE ROAD W16-1P		2	18"x24"	6			
45 DEGREE LEFT DIRECTIONAL ARROW W16-7P		2	21"x15"	4.4			
KEEP RIGHT HORIZONTAL ARROW R4-7A		1	24"x30"	5			
SCHOOL CROSSING SIGN S1-1		3	36"x36"	27			
AHEAD W16-9P		1	24"x12"	2			
DO NOT ENTER R5-1		1	36"x36"	9			
SUBTOTAL				187.9			

✳ ORANGE, YELLOW & YELLOW/GREEN

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020

ROUTE: 100 | STATE: MO

DISTRICT: SL | SHEET NO.: D302

COUNTY: ST. LOUIS

JOB NO.: J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

c:\pwworking\central01\d1472029\D30_2.dgn 10:25:36 AM 2/4/2020

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH																	
			SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH
			R1-5		S1-1	W16-9P	R2-1	R1-1	R7-1	M1-5	M3-2	W11-1	W16-1P	W12-1	R1-2	D9-6	R4-7	M3-4	W11-2		
			36"x36"		36"x36"	24"x12"	30"x36"	36"x36"	24"x12"	30"x24"	24"x12"	30"x30"	18"x24"	36"x36"	36"x36"x36"	12"x18"	24"x30"	24"x12"	36"x36"		
96	128+94	℄ RTE 100 (LT)			1	1															
97	131+07	℄ RTE 100 (LT)					1														
98	131+07	℄ RTE 100 (RT)						1													
101	131+16	℄ RTE 100 (RT)					1														
102	131+21	℄ RTE 100 (LT)						1													
103	134+88	℄ RTE 100 (RT)				1													1		
104	137+63	℄ RTE 100 (RT)						1													
105	137+91	℄ RTE 100 (RT)	1																		
106	138+34	℄ RTE 100 (LT)	1																		
107	140+93	℄ RTE 100 (RT)						1													
108	141+35	℄ RTE 100 (LT)				1													1		
109	144+10	℄ RTE 100 (RT)						1													
110	146+11	℄ RTE 100 (LT)						1													
111	147+59	℄ RTE 100 (RT)							1												
112	148+47	℄ RTE 100 (LT)						1													
114	149+12	℄ RTE 100 (RT)			1	1															
115	151+31	℄ RTE 100 (LT)								1	1										
116	151+37	℄ RTE 100 (LT)						1													
117	152+13	℄ RTE 100 (LT)										1	1								
118	152+61	℄ RTE 100 (LT)					1														
119	153+19	℄ RTE 100 (RT)													1						
120	155+18	℄ RTE 100 (LT)													1						
121	153+50	℄ RTE 100 (RT)												1							
122	157+85	℄ RTE 100 (RT)					1														
123	159+47	℄ RTE 100 (LT)						1													
124	162+01	℄ RTE 100 (LT)						1													
125	165+86	℄ RTE 100 (RT)						1													
126	166+05	℄ RTE 100 (RT)				1													1		
127	169+05	℄ RTE 100 (RT)	1																		
128	169+49	℄ RTE 100 (RT)						1													
129	169+98	℄ RTE 100 (LT)	1																		
130	172+71	℄ RTE 100 (RT)						1													
131	172+86	℄ RTE 100 (LT)				1													1		
132	177+11	℄ RTE 100 (LT)														1					
133	177+14	℄ RTE 100 (LT)						1													
134	177+25	℄ RTE 100 (RT)						1													
137	177+59	℄ RTE 100 (RT)					1														
138	178+57	℄ RTE 100 (LT)						1													
139	179+83	℄ RTE 100 (LT)								1	1										
140	181+27	℄ RTE 100 (LT)										1	1								
141	181+91	℄ RTE 100 (RT)							1												
142	184+49	℄ RTE 100 (LT)						1													
144	185+71	℄ RTE 100 (LT)			1	1															
145	186+46	℄ RTE 100 (LT)						1													
146	188+77	℄ RTE 100 (RT)						1													
147	191+09	℄ RTE 100 (LT)						1													
148	194+13	℄ RTE 100 (RT)							1												
149	194+15	℄ RTE 100 (LT)						1													
151	195+13	℄ RTE 100 (LT)								1											
152	195+47	℄ RTE 100															1				
153	198+83	℄ RTE 100															1				
154	199+12	℄ RTE 100 (RT)								1								1			
155	201+72	℄ RTE 100 (LT)					1														
157	202+40	℄ RTE 100 (RT)						1													
158	203+92	℄ RTE 100 (RT)					1														
159	204+29	℄ RTE 100 (RT)						1													
161	205+24	℄ RTE 100 (LT)						1													
		TOTAL	4		3	7	6	24	3	4	2	2	2	1	2	1	2	1	4		

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
YIELD HERE TO CROSS R1-5		4	36"x36"	36			
SCHOOL CROSSING SIGN S1-1		3	36"x36"	27			
AHEAD W16-9P		7	24"x12"	14			
SPEED LIMIT 30 R2-1		6	30"x36"	45			
STOP SIGN R1-1		24	36"x36"	216			
NO PARKING ANY TIME R7-1		3	24"x12"	6			
STATE NUMBER SHIELD 100 M1-5		4	30"x24"	20			
EAST DIRECTION MARKER M3-2		2	24"x12"	4			
BICYCLE SYMBOL W11-1		2	30"x30"	12.5			
SHARE THE ROAD W16-1P		2	18"x24"	6			
DOUBLE DOWN ARROW SYMBOL W12-1		1	36"x36"	9			
YIELD SIGN R1-2		2	36"x36"x36"	9			
HANDICAP ACCESS SYMBOL D9-6		1	12"x18"	1.5			
KEEP RIGHT SYMBOL R4-7		2	24"x30"	10			
WEST DIRECTION MARKER M3-4		1	24"x12"	2			
PEDESTRIAN SYMBOL W11-2		4	36"x36"	36			
		SUBTOTAL		454.0			

* ORANGE, YELLOW & YELLOW/GREEN

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D303

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH																				
			SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH
			R1-5 36"x36"	R3-2 36"x36"	W12-1 36"x36"	HIS. RTE 66 30"x36"	R2-1 30"x36"	R1-1 36"x36"	R7-1D 12"x18"	M1-5 30"x24"	M3-2 24"x12"	W11-1 30"x30"	W16-1P 18"x24"	R6-1R 36"x12"	R1-2 36"x36"x36"	D9-6 12"x18"	R4-7 24"x30"	M3-4 24"x12"	R2-5D 18"x24"	W11-2 36"x36"	W16-9P 24"x12"
163	206+61	℄ RTE 100 (RT)	1																					
164	207+08	℄ RTE 100 (RT)						1																
165	212+48	℄ RTE 100 (LT)					1																	
167	212+65	℄ RTE 100 (RT)						1																
168	213+11	℄ RTE 100 (RT)		1				1																
169	213+58	℄ RTE 100 (RT)										1	1											
170	214+66	℄ RTE 100 (RT)					1																	
171	216+35	℄ RTE 100 (RT)						1																
173	217+59	℄ RTE 100 (RT)						1																
174	218+07	℄ RTE 100 (LT)						1																
177	219+86	℄ RTE 100 (LT)					1																	
178	221+17	℄ RTE 100 (LT)															1							
179	221+38	℄ RTE 100 (LT)								1	1													
180	222+08	℄ RTE 100 (LT)										1	1											
181	223+19	℄ RTE 100 (LT)														1								
183	225+43	℄ RTE 100 (RT)				1																		
184	225+98	℄ RTE 100 (LT)															1							
185	231+82	℄ RTE 100 (RT)						1																
187	232+93	℄ RTE 100 (LT)							1															
189	234+54	℄ RTE 100 (RT)																			1	1		
190	234+88	℄ RTE 100 (LT)						1																
191	235+42	℄ RTE 100 (RT)					1		1										1					
192	237+06	℄ RTE 100 (LT)					1																	
194	237+31	℄ RTE 100 (LT)						1																
195	237+75	℄ RTE 100 (RT)	1																					
197	238+45	℄ RTE 100 (LT)	1																					
198	238+77	℄ RTE 100 (RT)						1																
199	239+33	℄ RTE 100 (RT)							1															
200	241+55	℄ RTE 100 (LT)																			1	1		
202	242+47	℄ RTE 100 (RT)						1																
203	245+93	℄ RTE 100 (LT)						1																
204	249+76	℄ RTE 100 (RT)															1							
205	249+89	℄ RTE 100 (RT)												1										
206	251+01	℄ RTE 100 (RT)												1										
207	252+71	℄ RTE 100 (RT)												1										
209	253+39	℄ RTE 100 (LT)								1	1													
210	253+94	℄ RTE 100 (LT)													1									
211	254+03	℄ RTE 100 (RT)													1									
212	254+23	℄ RTE 100 (RT)			1																			
213	254+49	℄ RTE 100 (LT)			1																			
215	254+75	℄ RTE 100 (LT)															1							
216	254+89	℄ RTE 100 (RT)			1																			
217	255+03	℄ RTE 100 (LT)																						
218	255+34	℄ RTE 100 (LT)																						
219	255+53	℄ RTE 100 (RT)													1									
220	255+99	℄ RTE 100 (RT)								1								1						
		TOTAL	3	1	3	1	5	12	2	3	2	2	2	3	3	1	4	1	1	2	2			

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
YIELD HERE TO CROSS R1-5		3	36"x36"	27			
NO LEFT TURN R3-2		1	36"x36"	9			
DOUBLE DOWN ARROW SYMBOL W12-1		3	36"x36"	27			
SPEED LIMIT 30 R2-1		1	24"x12"	2			
HISTORIC ROUTE 66 BYWAY		5	30"x36"	30			
STOP SIGN R1-1		12	36"x36"	90			
NO PARKING ANY TIME - BOTH DIRECTIONS R7-1D		2	12"x18"	3			
STATE NUMBERED SHIELD 100 M15-1		3	30"x24"	15			
EAST DIRECTION MARKER M3-2		2	24"x12"	4			
BICYCLE SYMBOL W11-1		2	30"x30"	12.5			
SHARE THE ROAD W16-1P		2	18"x24"	6			
ONE WAY IN RIGHT ARROW R6-1R		3	36"x12"	9			
YIELD SIGN R1-2		3	36"x36"x36"	13.5			
HANDICAP ACCESS SYMBOL D9-6		1	12"x18"	1.5			
KEEP RIGHT SYMBOL R4-7		4	24"x30"	20			
WEST DIRECTION MARKER M3-4		1	24"x12"	2			
SPEED LIMIT 25 EXCEPT WHERE POSTED R2-5D		1 2	18"x24"	3			
PEDESTRIAN SYMBOL W11-2		2	36"x36"	18			
AHEAD W16-9P			24"x12"	4			
		SUBTOTAL		296.5			

* ORANGE, YELLOW & YELLOW/GREEN

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D304

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SIGN DESCRIPTION, SIZES & NUMBER OF EACH																	
			M6-1 21"x15"	R5-1 36"x36"	R3-1 36"x36"	R6-1L 36"x12"	R4-4 36"x30"	R2-1 30"x36"	R1-1 36"x36"	R7-1D 12"x18"	R7-1L 12"x18"	R7-1R 12"x18"	W11-1 30"x30"	W16-1P 18"x24"	M6-3 21"x15"	W14-1 30"x30"	M1-4 24"x24"	R4-7 24"x30"	M2-1 21"x15"	M1-4 24"x24"
221	257+40	℄ RTE 100				1														
222	257+56	℄ RTE 100 (RT)											1	1						
223	259+98	℄ RTE 100																1		
224	260+51	℄ RTE 100 (RT)						1												
226	263+37	℄ RTE 100 (LT)							1											
227	264+22	℄ RTE 100 (RT)					1													
228	266+10	℄ RTE 100 (LT)														1				
230	269+19	℄ RTE 100 (RT)							1											
231	269+41	℄ RTE 100 (RT)			1															
232	271+00	℄ RTE 100 (LT)											1	1						
233	271+26	℄ RTE 100 (LT)							1											
234	271+46	℄ RTE 100 (LT)							1											
235	272+02	℄ RTE 100 (LT)										1								
236	273+10	℄ RTE 100 (RT)								1										
237	274+33	℄ RTE 100 (RT)								1										
238	274+62	℄ RTE 100 (LT)									1									
239	274+65	℄ RTE 100 (RT)													1		1		1	1
240	276+97	℄ RTE 100 (RT)	1																	
241	277+34	℄ RTE 100 (RT)								1										
242	278+47	℄ RTE 100 (RT)					1													
243	278+71	℄ RTE 100																1		
244	278+93	℄ RTE 100 (RT)								1										
245	279+50	℄ RTE 100				1														
246	280+28	℄ RTE 100 (LT)		1																
247	281+01	℄ RTE 100																1		
		TOTAL	1	1	1	2	2	1	4	4	1	1	2	2	1	1	1	3	1	1

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
NO PARKING ANY TIME R7-1							
TURN ARROW M6-1		1	21"x15"	2.2			
DO NOT ENTER R5-1		1	36"x36"	9			
NO RIGHT TURN R3-1		1	36"x36"	9			
ONE WAY IN LEFT ARROW R6-1L		2	36"x12"	6			
BEGIN RIGHT TURN LANE - YIELD TO BIKES R4-4		2	36"x30"	15			
SPEED LIMIT 30 R2-1		1	30"x36"	7.5			
STOP SIGN R1-1		4	36"x36"	36			
NO PARKING ANY TIME - BOTH DIRECTIONS R7-1D		4	12"x18"	6			
NO PARKING ANY TIME - LEFT R7-1L		1	12"x18"	1.5			
NO PARKING ANY TIME - RIGHT R7-1R		1	12"x18"	1.5			
BICYCLE SYMBOL W11-1		2	30"x30"	12.5			
SHARE THE ROAD W16-1P		2	18"x24"	6.0			
STRAIGHT AHEAD ARROW M6-3		1	21"x15"	2.2			
DEAD END W14-1		1	30"x30"	6.25			
US NUMBERED ROUTE SHIELD 61 M1-4		1	24"x24"	4			
KEEP RIGHT SYMBOL R4-7		3	24"x30"	15			
JUNCTION MARKER M2-1		1	21"x15"	2.2			
US NUMBERED ROUTE SHIELD 67 M1-4		1	24"x24"	4			
SUBTOTAL SHEET 1				329.25			
SUBTOTAL SHEET 2				187.9			
SUBTOTAL SHEET 3				454.0			
SUBTOTAL SHEET 4				296.5			
SUBTOTAL SHEET 5				145.85			
TOTAL				1413.5			

* ORANGE, YELLOW & YELLOW/GREEN

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. D305

COUNTY ST. LOUIS

JOB NO. J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

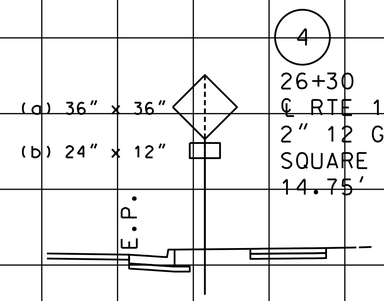
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

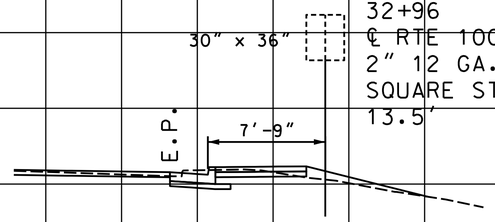
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.

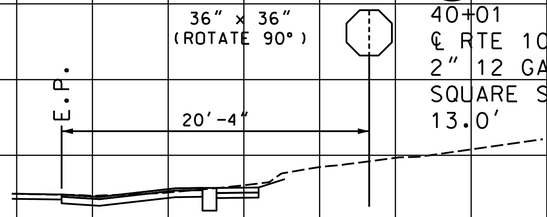
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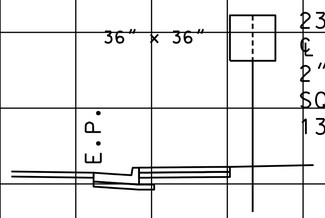
4
26+30
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



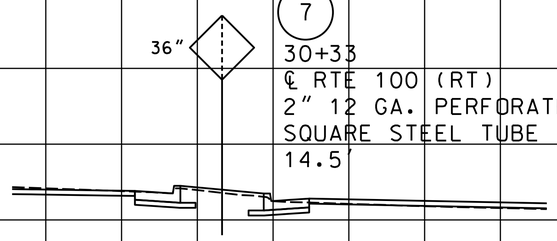
8
32+96
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5'



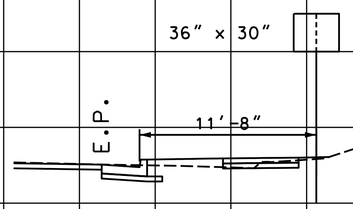
14
40+01
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



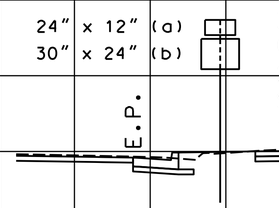
3
23+30
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



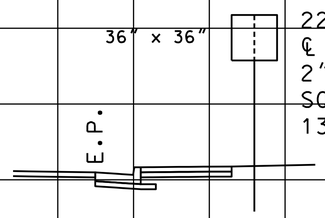
7
30+33
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'



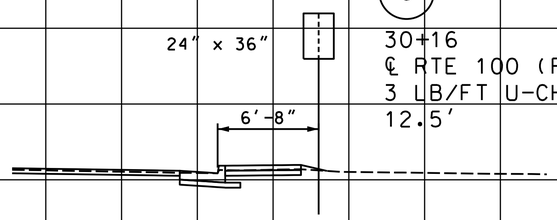
12
38+88
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



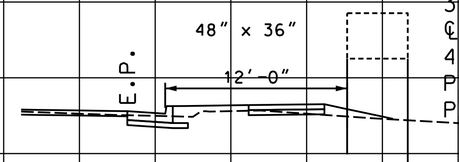
11
34+00
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.25'



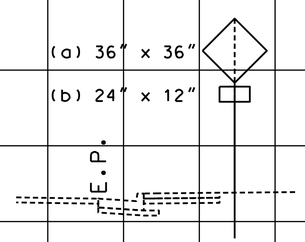
2
22+60
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



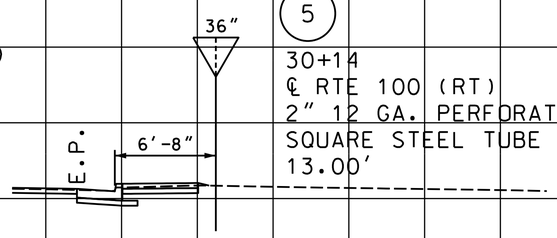
6
30+16
℄ RTE 100 (RT)
3 LB/FT U-CHANNEL
12.5'



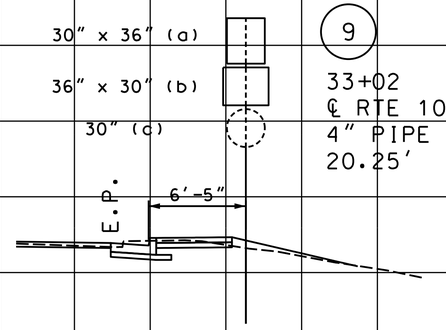
10
33+53
℄ RTE 100 (RT)
4" x 4" WOOD POST
POST 1: 9.5'
POST 2: 10.25'



1
19+75
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



5
30+14
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.00'



9
33+02
℄ RTE 100 (RT)
4" PIPE POST
20.25'

5'

CROSS SECTIONS
SHEET 1 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	1

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

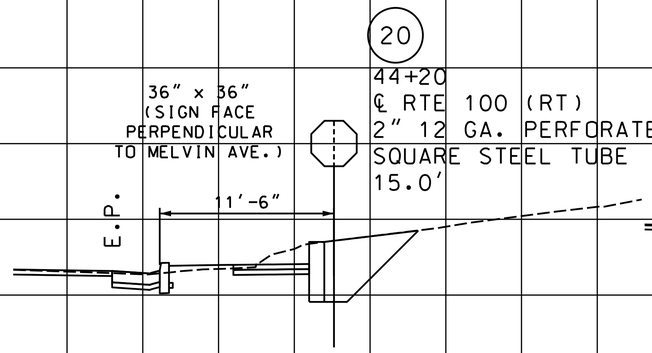
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

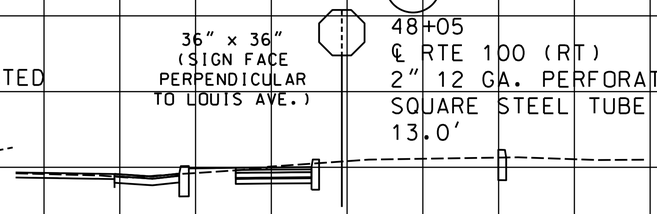
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

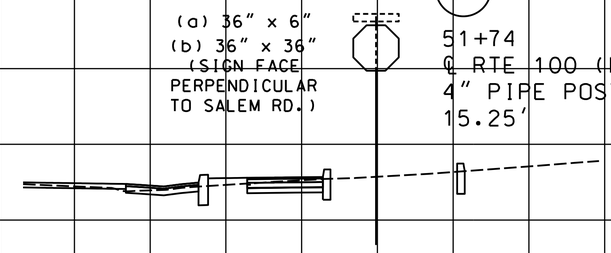
REV.



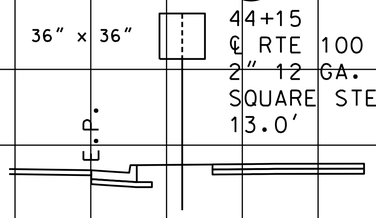
20
44+20
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
15.0'



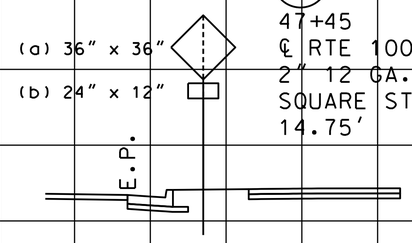
26
48+05
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



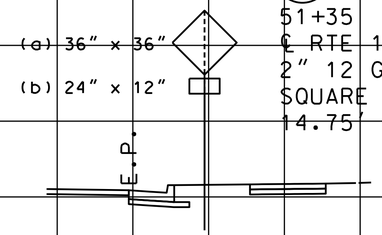
31
51+74
℄ RTE 100 (RT)
4" PIPE POST
15.25'



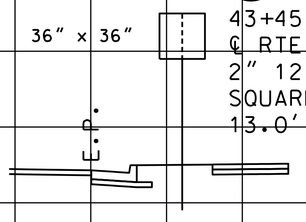
19
44+15
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



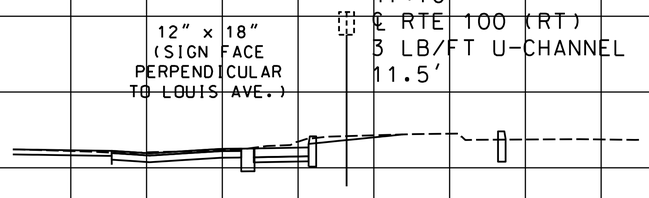
25
47+45
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



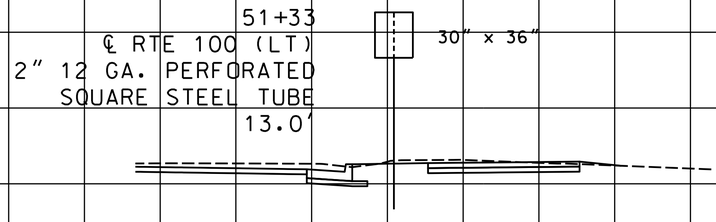
30
51+35
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



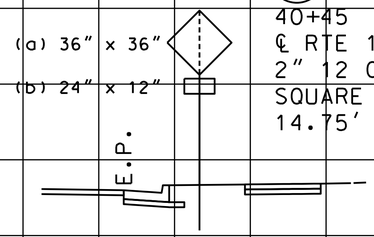
18
43+45
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



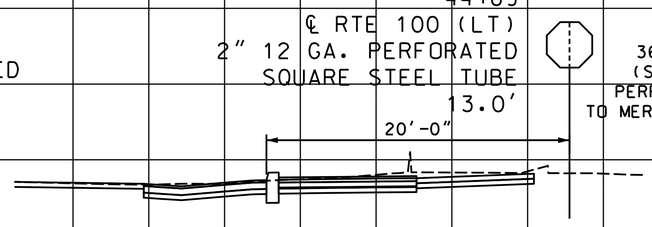
24
47+70
℄ RTE 100 (RT)
3 LB/FT U-CHANNEL
11.5'



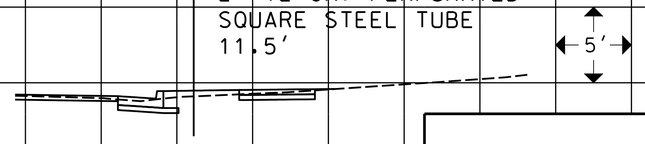
29
51+33
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



17
40+45
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



23
44+89
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



28
51+12
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.5'

CROSS SECTIONS
SHEET 2 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

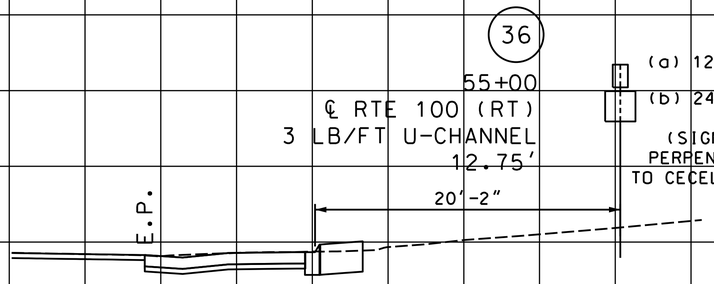
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

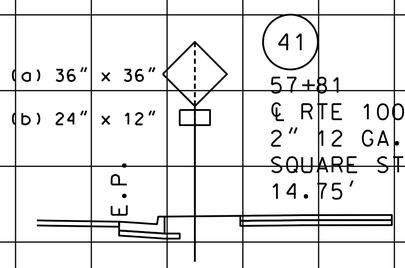
REV.	DESCRIPTION	DATE

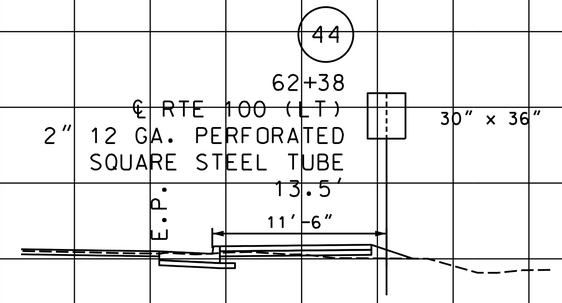
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

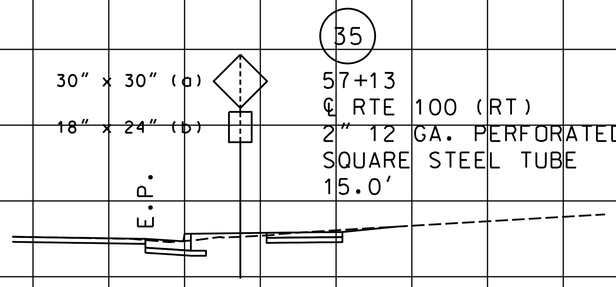
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

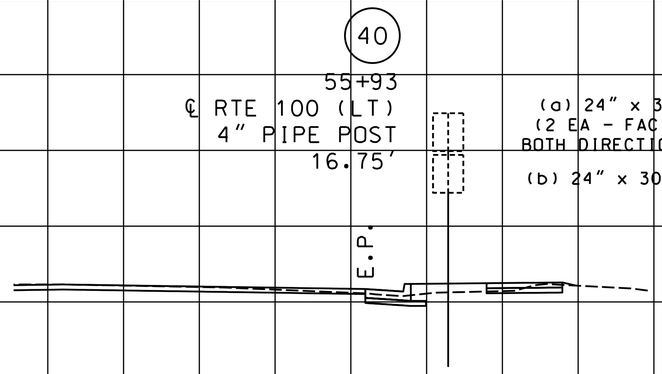
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

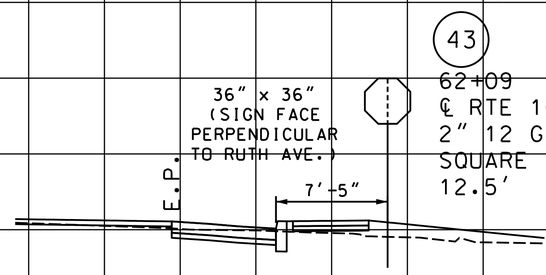


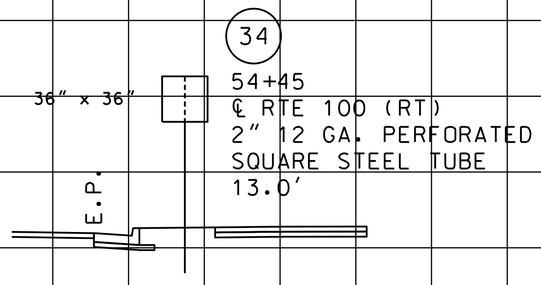


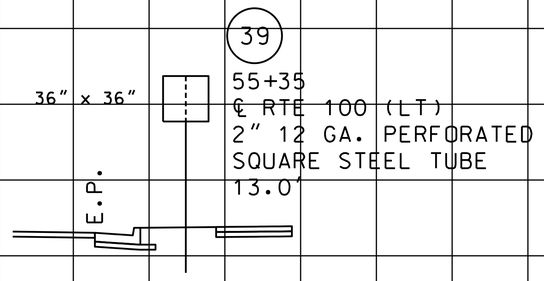


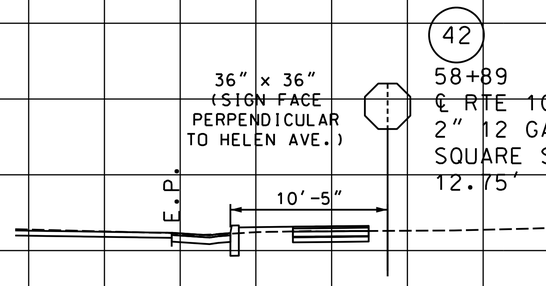


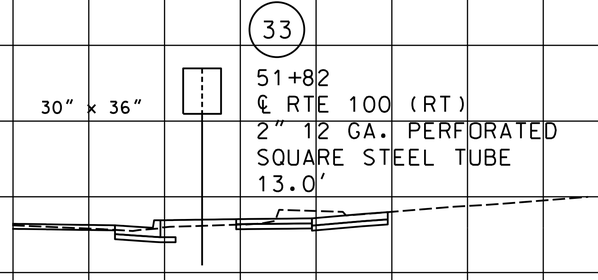


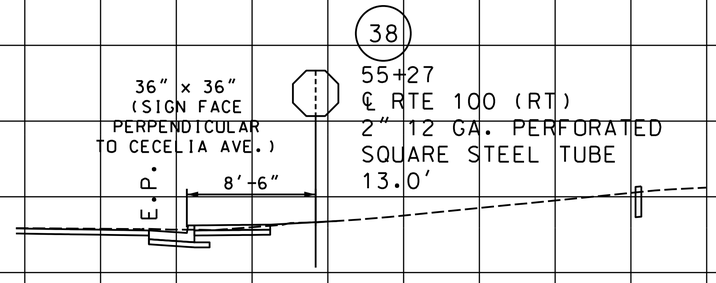


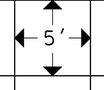












"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

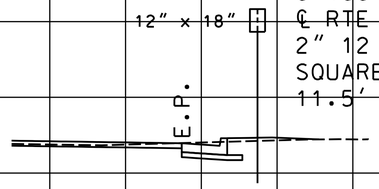
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

CROSS SECTIONS
SHEET 3 OF 18

REV.

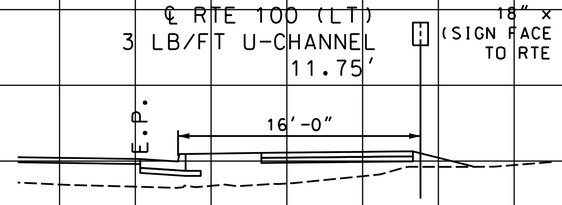
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(51)
64+66
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.5'

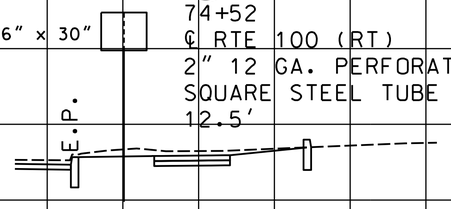


SECTION PERPENDICUAR TO DOROTHY AVE.

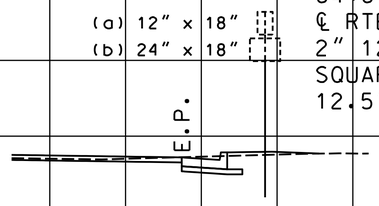
(57)
68+74
℄ RTE 100 (LT)
3 LB/FT U-CHANNEL
11.75'



(61)
74+52
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

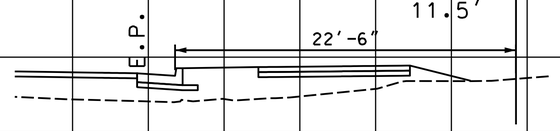


(49)
64+61
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

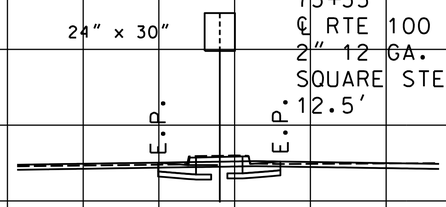


SECTION PERPENDICUAR TO DOROTHY AVE.

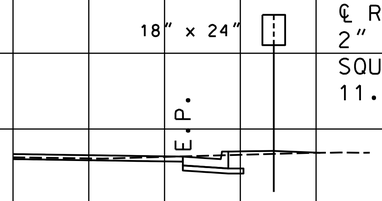
(56)
66+68
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.5'



(60)
73+35
℄ RTE 100
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

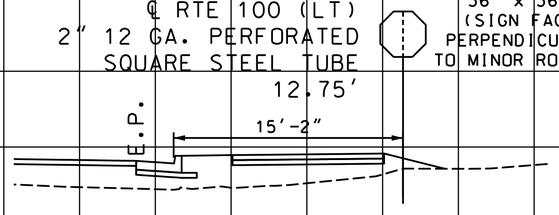


(48)
64+47
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

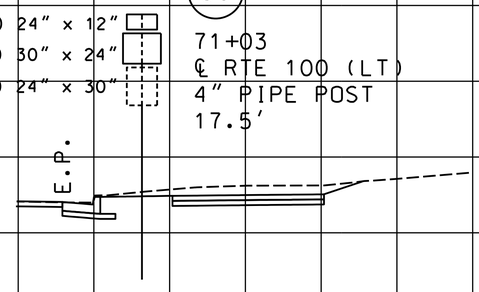


SECTION PERPENDICUAR TO DOROTHY AVE.

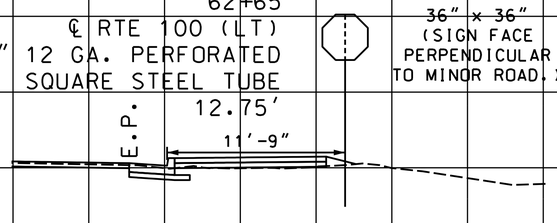
(55)
66+25
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'



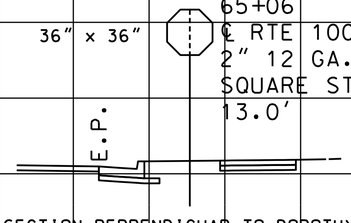
(59)
71+03
℄ RTE 100 (LT)
4" PIPE POST
17.5'



(47)
62+65
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'

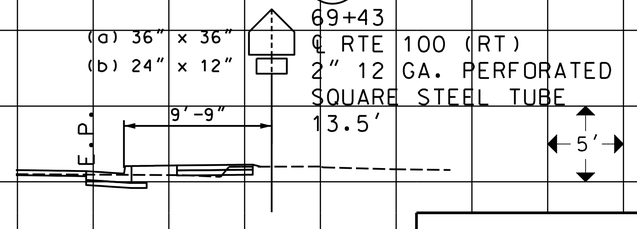


(52)
65+06
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



SECTION PERPENDICUAR TO DOROTHY AVE.

(58)
69+43
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5'



CROSS SECTIONS
SHEET 4 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	4

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

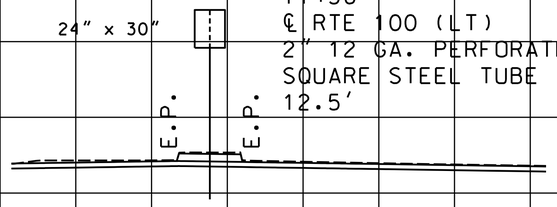
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

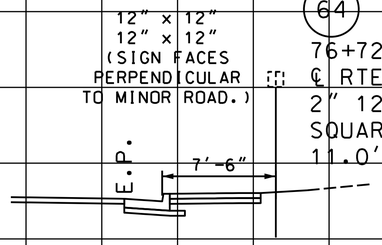
REV.

65
77+36
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



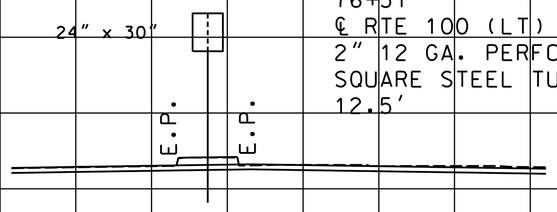
SECTION PERPENDICULAR TO BRENTWOOD BLVD.

64
76+72
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.0'

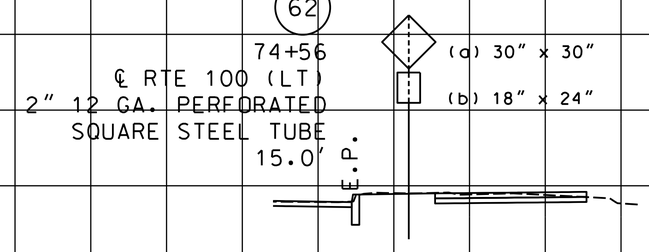


SECTION PERPENDICULAR TO BRENTWOOD BLVD.

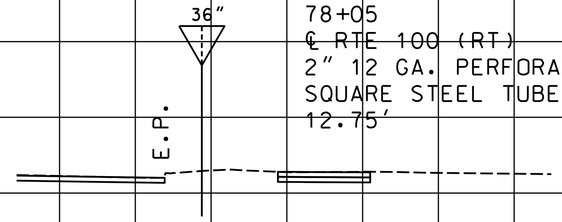
63
76+31
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



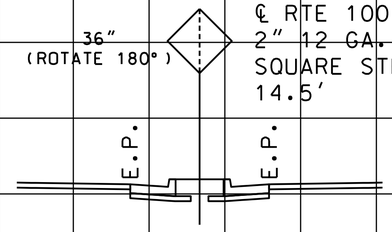
62
74+56
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
15.0'



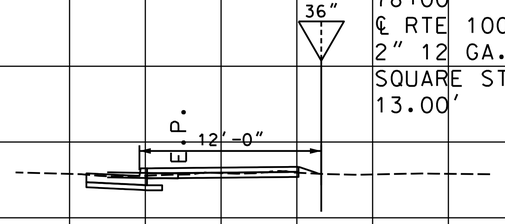
69
78+05
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'



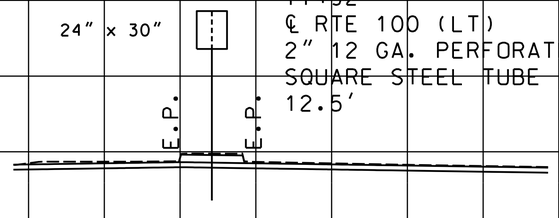
68
78+00
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'



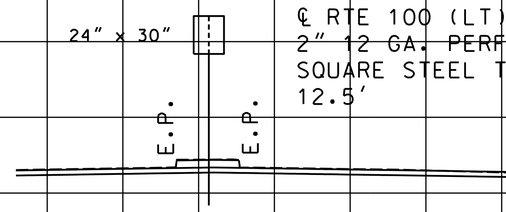
67
78+00
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.00'



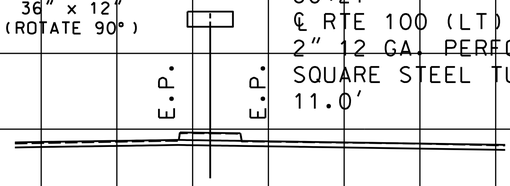
66
77+92
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



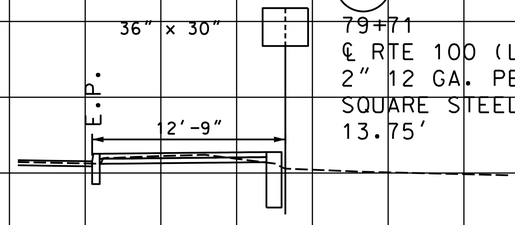
73
81+26
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



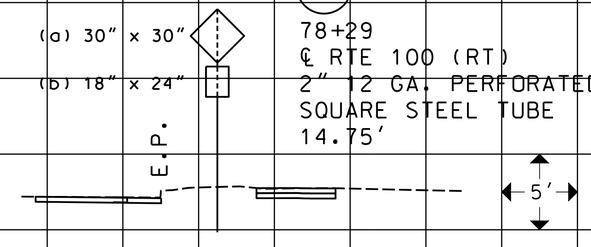
72
80+27
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.0'



71
79+71
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.75'



70
78+29
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



CROSS SECTIONS
SHEET 5 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

78
82+21
℄ RTE 100 (LT)
3 LB/FT U-CHANNEL
12.0′
18" x 24"
(SIGN FACE PARALLEL
TO COLLIER AVE)
E.P.
SECTION PERPENDICULAR
TO COLLIER AVE.

77
81+85
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75′
12" x 18"
E.P.
6′-0"
SECTION PERPENDICULAR
TO COLLIER AVE.

76
81+76
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75′
12" x 18"
E.P.
6′-0"
SECTION PERPENDICULAR
TO COLLIER AVE.

75
81+69
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0′
36" x 36"
(SIGN FACE
PERPENDICULAR
TO COLLIER AVE.)
E.P.
16′-9"

83
119+04
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5′
(a) 36" x 36"
(b) 24" x 12"
E.P.

82
83+11
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75′
36" x 36"
(SIGN FACE
PERPENDICULAR
TO MINOR ROAD)
E.P.
11′-6"

80
82+56
℄ RTE 100 (RT)
4" PIPE POST
17.5′
(a) 24" x 12"
(b) 30" x 24"
(c) 24" x 30"
E.P.

79
82+25
℄ RTE 100 (LT)
3 LB/FT U-CHANNEL
11.5′
12" x 18"
(SIGN FACE PARALLEL
TO COLLIER AVE)
E.P.
SECTION PERPENDICULAR
TO COLLIER AVE.

86
123+08
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0′
36" x 36"
(SIGN FACE
PERPENDICULAR
TO MINOR ROAD)
E.P.
11′-9"

85
122+67
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5′
(a) 36" x 36"
(b) 21" x 15"
E.P.

84
122+55
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5′
(a) 36" x 36"
(b) 21" x 15"
E.P.

5′

CROSS SECTIONS
SHEET 6 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

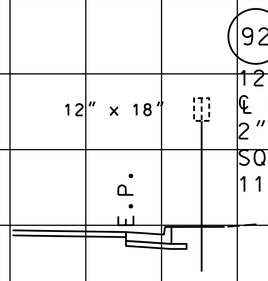
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

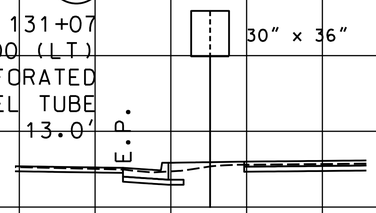
REV.

92
126+68
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

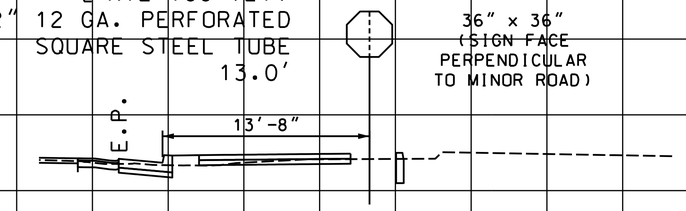


SECTION PERPENDICULAR
TO HIGH SCHOOL DRIVE

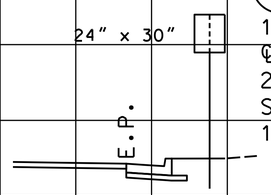
97
131+07
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



102
131+21
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

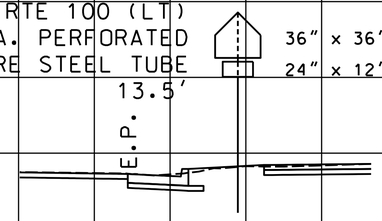


90
126+22
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.0'

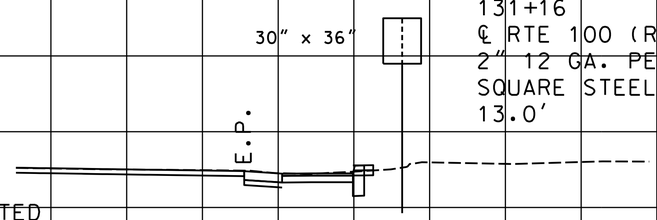


SECTION PERPENDICULAR
TO HIGH SCHOOL DRIVE

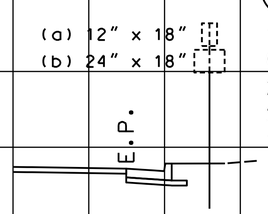
96
128+94
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5'



101
131+16
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

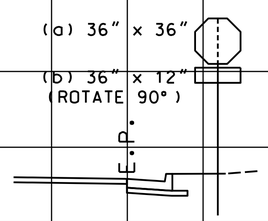


89
126+08
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



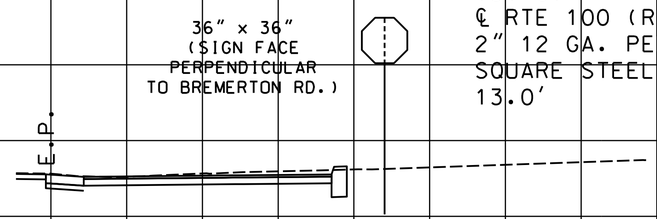
SECTION PERPENDICULAR
TO HIGH SCHOOL DRIVE

94
126+76
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'

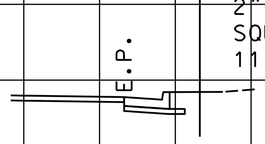


SECTION PERPENDICULAR
TO HIGH SCHOOL DRIVE

98
131+07
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

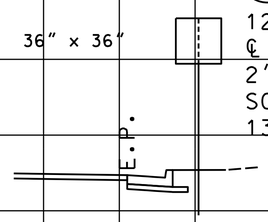


88
125+89
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

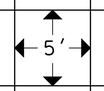


SECTION PERPENDICULAR
TO HIGH SCHOOL DRIVE

93
126+72
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



SECTION PERPENDICULAR
TO HIGH SCHOOL DRIVE



CROSS SECTIONS
SHEET 7 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

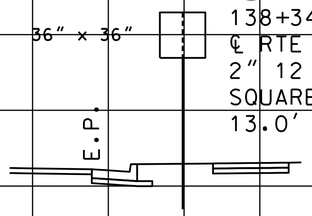
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

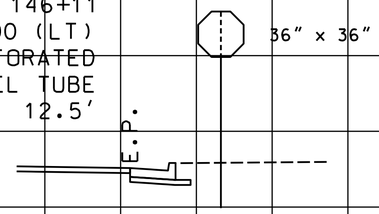
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.

106
138+34
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

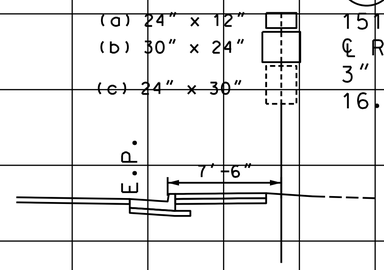


110
146+11
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

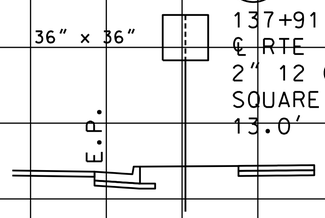


SECTION PERPENDICULAR TO RARITAN DR.

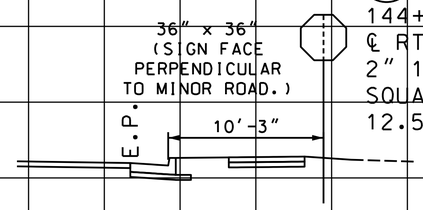
115
151+31
℄ RTE 100 (LT)
3" PIPE POST
16.5'



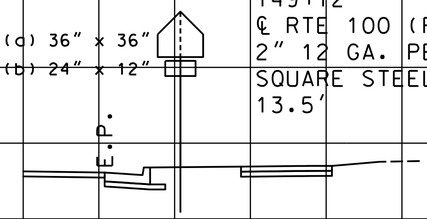
105
137+91
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



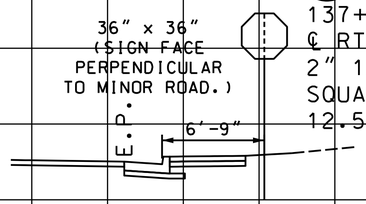
109
144+10
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



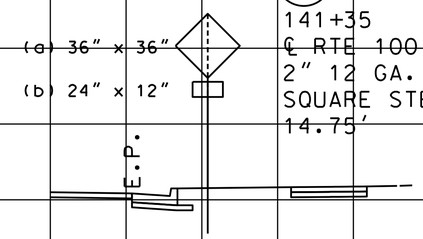
114
149+12
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5'



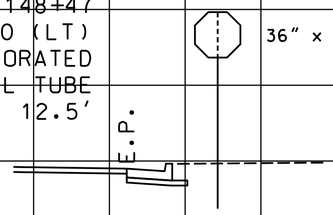
104
137+63
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



108
141+35
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'

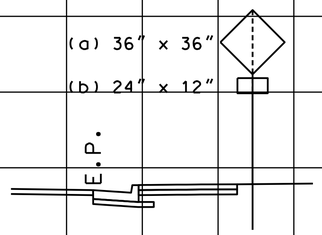


112
148+47
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

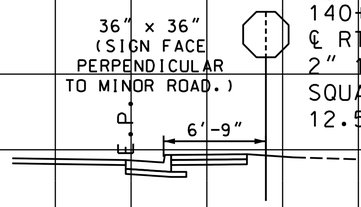


SECTION PERPENDICULAR TO RARITAN DR.

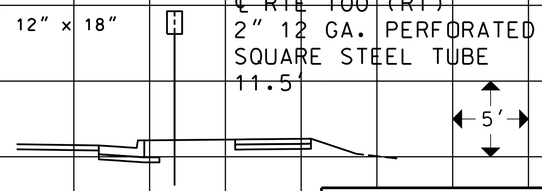
103
134+88
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



107
140+93
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



111
147+59
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.5'



CROSS SECTIONS
SHEET 8 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

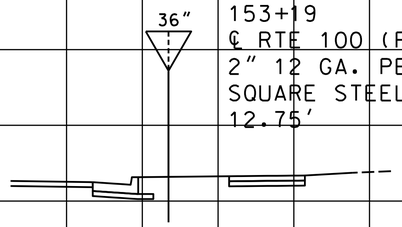
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

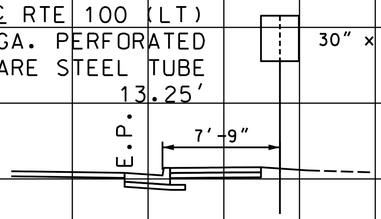
REV.

(119)
153+19
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'

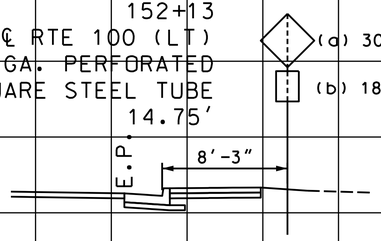


SECTION PERPENDICULAR TO CHANNELIZED LANE.

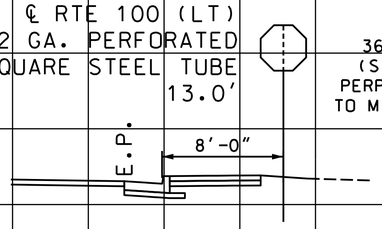
(118)
152+61
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



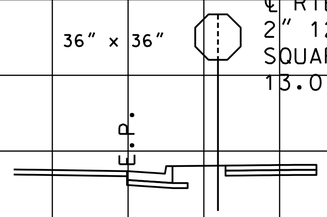
(117)
152+13
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



(116)
151+37
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

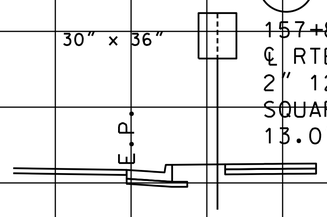


(123)
159+47
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

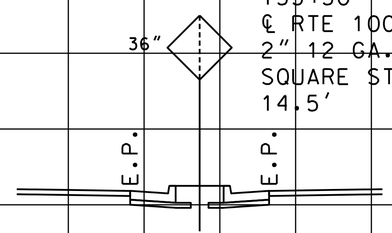


SECTION PERPENDICULAR
TO SHOPPING CENTER ENTRANCE.

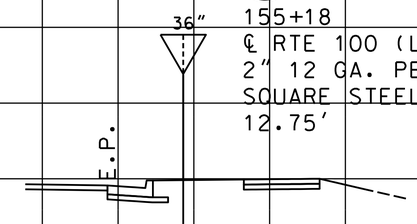
(122)
157+85
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



(121)
153+50
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'

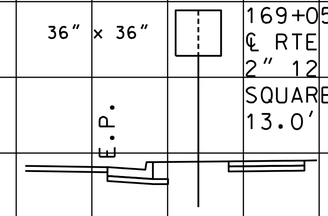


(120)
155+18
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'

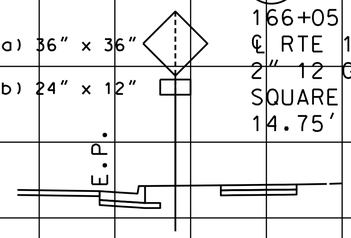


SECTION PERPENDICULAR TO CHANNELIZED LANE.

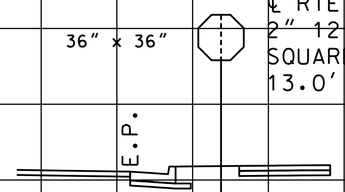
(127)
169+05
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



(126)
166+05
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'

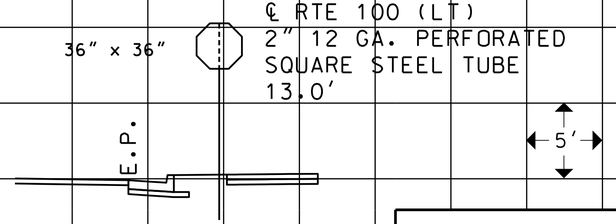


(125)
165+86
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



SECTION PERPENDICULAR
TO SHOPPING CENTER ENTRANCE.

(124)
162+01
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



SECTION PERPENDICULAR
TO SHOPPING CENTER ENTRANCE.

CROSS SECTIONS
SHEET 9 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

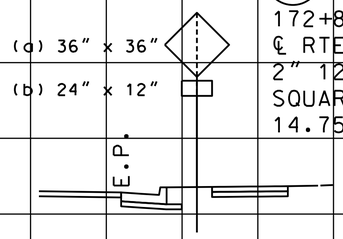
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

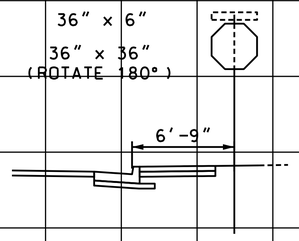
REV.

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131
172+86
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'

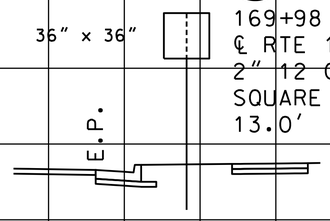


130
172+71
℄ RTE 100 (RT)
3" PIPE POST
14.75'

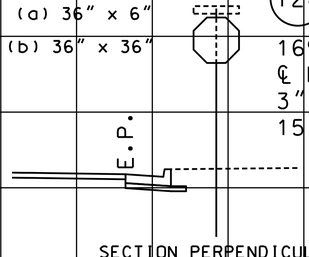


SECTION PERPENDICULAR
TO LEONARD AVE.

129
169+98
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

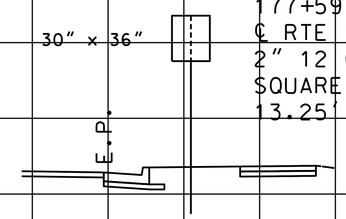


128
169+49
℄ RTE 100 (RT)
3" PIPE POST
15.25'

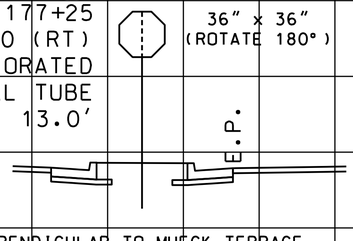


SECTION PERPENDICULAR
TO MCKINLEY AVE.

137
177+59
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'

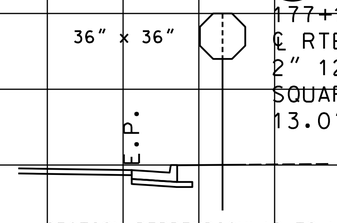


134
177+25
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



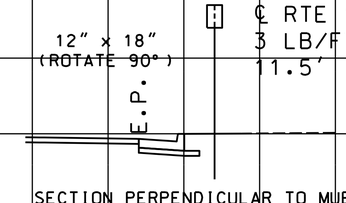
SECTION PERPENDICULAR TO MUECK TERRACE.

133
177+14
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



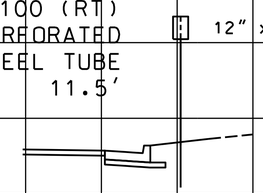
SECTION PERPENDICULAR TO MUECK TERRACE.

132
177+11
℄ RTE 100 (LT)
3 LB/FT U-CHANNEL
11.5'



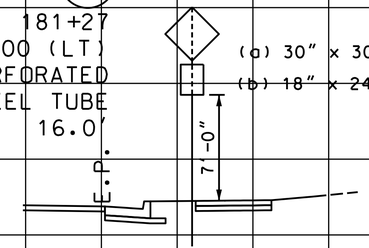
SECTION PERPENDICULAR TO MUECK TERRACE.

141
181+91
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.5'

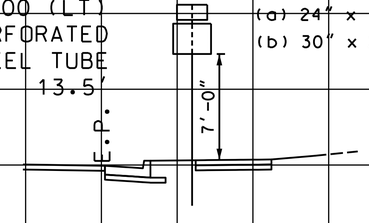


SECTION PERPENDICULAR TO KORTWRIGHT AVE.

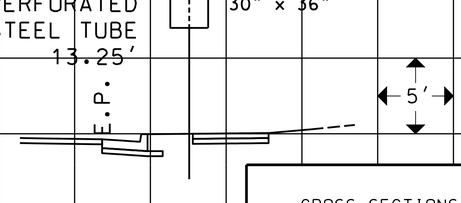
140
181+27
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
16.0'



139
179+83
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5'



138
178+57
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



CROSS SECTIONS
SHEET 10 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

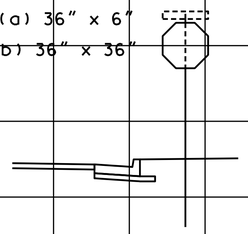
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.

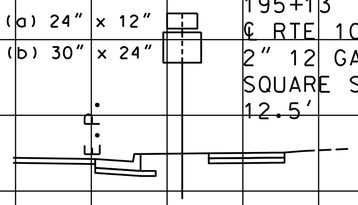
(a) 36" x 6"
(b) 36" x 36"



146
188+77
℄ RTE 100 (RT)
3" PIPE POST
14.75'

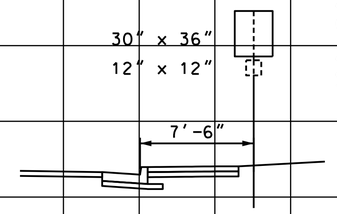
SECTION PERPENDICULAR
TO ODAY AVE.

(a) 24" x 12"
(b) 30" x 24"



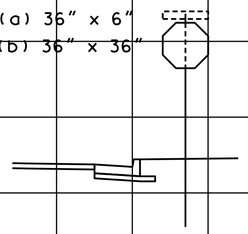
151
195+13
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

30" x 36"
12" x 12"



155
201+72
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5'

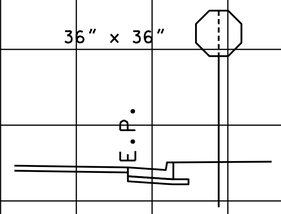
(a) 36" x 6"
(b) 36" x 36"



145
186+46
℄ RTE 100 (LT)
3" PIPE POST
14.75'

SECTION PERPENDICULAR
TO MANITOU DR.

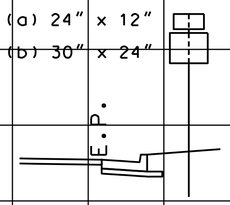
36" x 36"



149
194+15
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

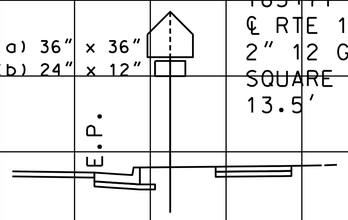
SECTION PERPENDICULAR
TO SHOPPING FAIRDALE AVE.

(a) 24" x 12"
(b) 30" x 24"



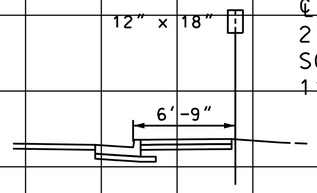
154
199+12
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.25'

(a) 36" x 36"
(b) 24" x 12"



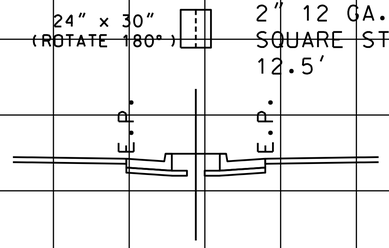
144
185+71
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.5'

12" x 18"



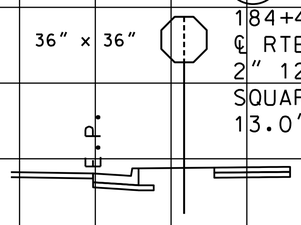
148
194+13
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

24" x 30"
(ROTATE 180°)



153
198+83
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

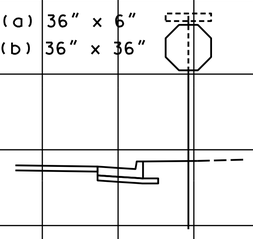
36" x 36"



142
184+49
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

SECTION PERPENDICULAR TO BLOSSOM LN.

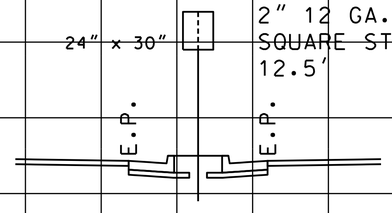
(a) 36" x 6"
(b) 36" x 36"



147
191+09
℄ RTE 100 (LT)
3" PIPE POST
14.75'

SECTION PERPENDICULAR
TO TAVALON AVE.

24" x 30"



152
195+47
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

CROSS SECTIONS
SHEET 11 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

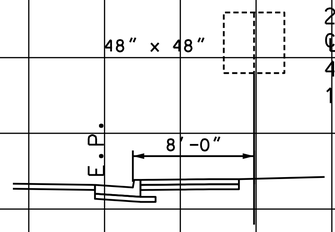
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

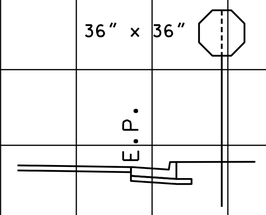
160

205+16
℄ RTE 100 (LT)
4" x 6" WOOD POST
13.25'



164

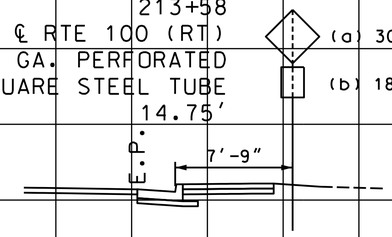
207+08
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



SECTION PERPENDICULAR
TO DIERBERG'S ENTRANCE.

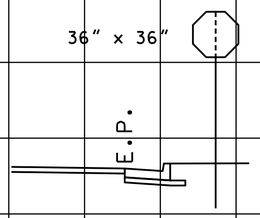
169

213+58
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



159

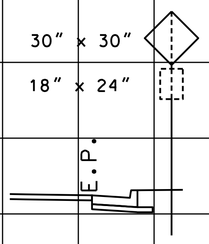
204+29
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

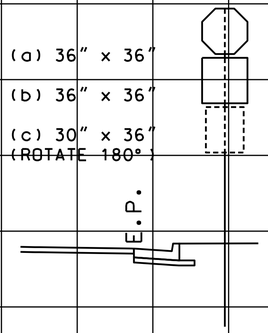


SECTION PERPENDICULAR
TO DIERBERG'S ENTRANCE.

163

206+61
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
15.0'





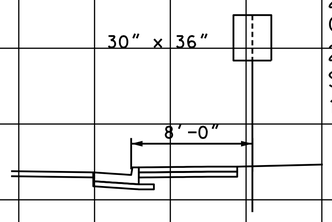
168

213+11
℄ RTE 100 (RT)
4" PIPE POST
21.0'

SECTION PERPENDICULAR
TO WARSON WOODS BLVD.

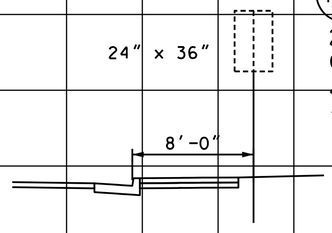
158

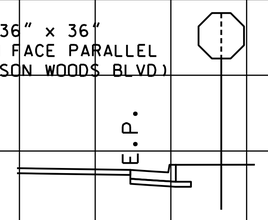
203+92
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



162

205+53
℄ RTE 100 (RT)
4" x 4" WOOD POST
13.25'





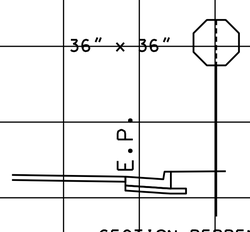
167

212+65
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

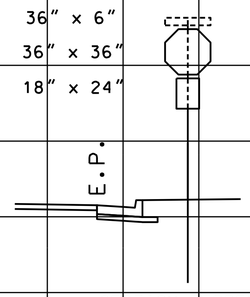
SECTION PERPENDICULAR
TO WARSON WOODS BLVD.

157

202+40
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



SECTION PERPENDICULAR
TO SHOPPING SALEM HILLS DR.



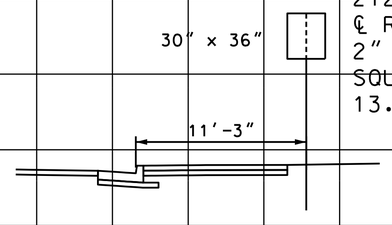
161

205+24
℄ RTE 100 (LT)
4" PIPE POST
17.5'

SECTION PERPENDICULAR
TO FREDERICK LN.

165

212+48
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



CROSS SECTIONS
SHEET 12 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	12

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

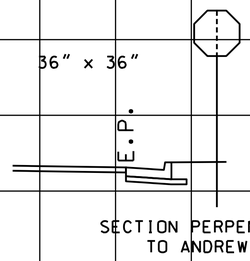
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

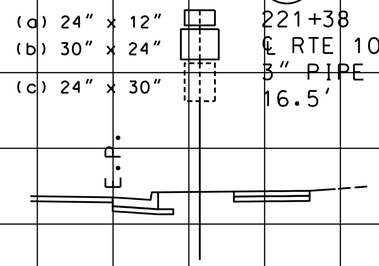
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

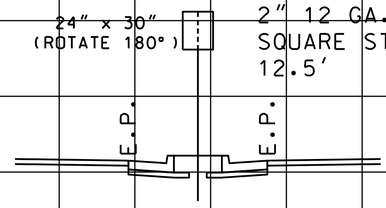


174
218+07
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

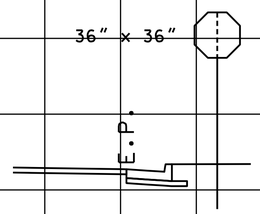
SECTION PERPENDICULAR
TO ANDREW DR.



179
221+38
℄ RTE 100 (LT)
3" PIPE POST
16.5'

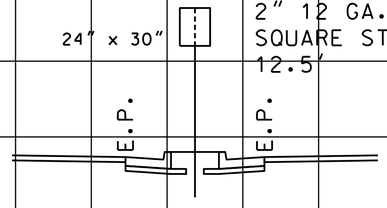


184
225+98
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

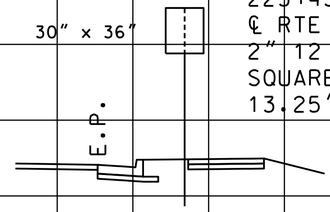


173
217+59
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

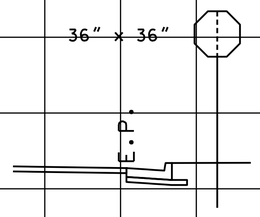
SECTION PERPENDICULAR
TO SHOPPING CENTER ENTRANCE.



178
221+17
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

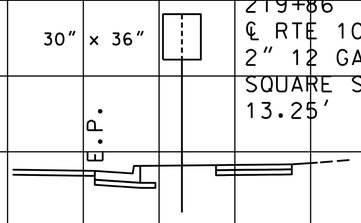


183
225+43
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'

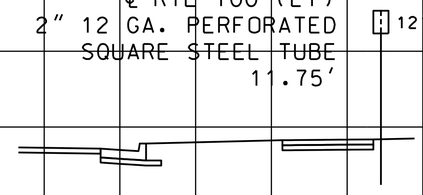


171
216+35
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

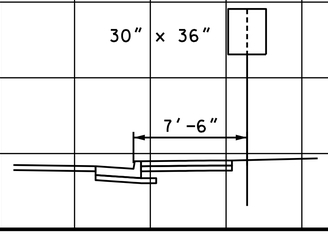
SECTION PERPENDICULAR
TO SHOPPING CENTER ENTRANCE.



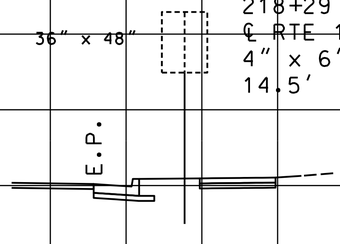
177
219+86
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



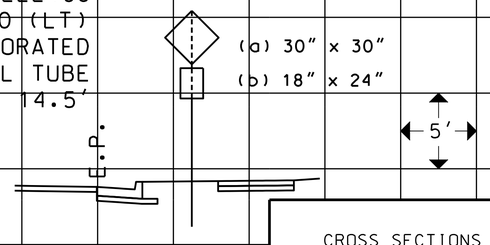
181
223+19
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'



170
214+66
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



175
218+29
℄ RTE 100 (RT)
4" x 6" WOOD POST
14.5'



180
222+08
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'

CROSS SECTIONS
SHEET 13 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	13

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

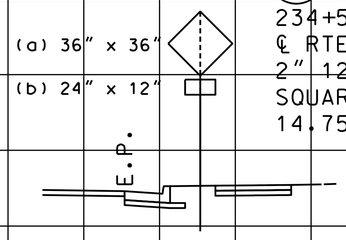
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

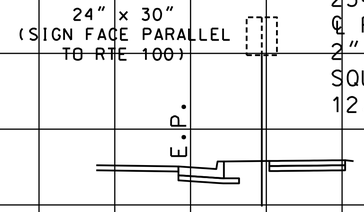
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

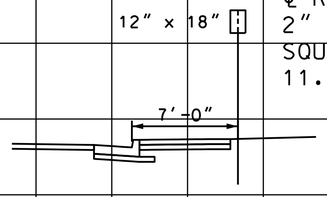
189
234+54
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



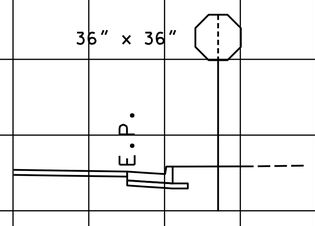
188
234+35
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



187
232+93
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

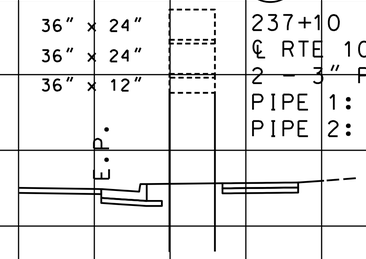


185
231+82
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

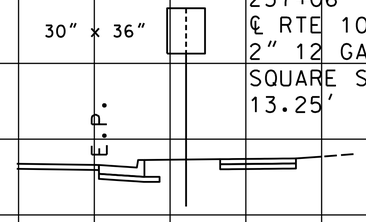


SECTION PERPENDICULAR
TO BENNETT AVE.

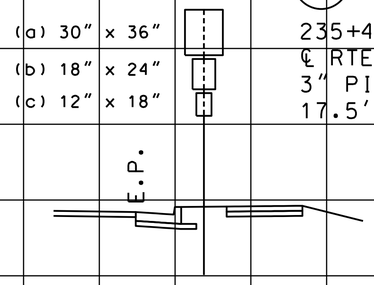
193
237+10
℄ RTE 100 (LT)
2 - 3" PIPE POST
PIPE 1: 16.0'
PIPE 2: 16.0'



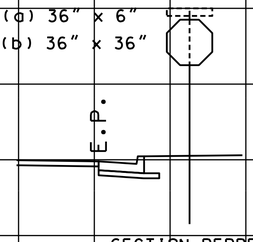
192
237+06
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



191
235+42
℄ RTE 100 (RT)
3" PIPE POST
17.5'

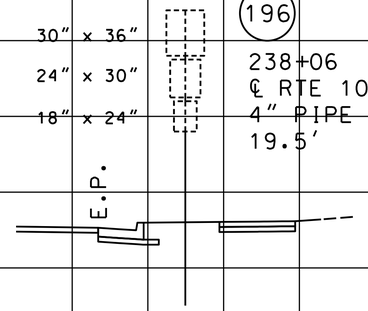


190
234+88
℄ RTE 100 (LT)
3" PIPE POST
14.5'

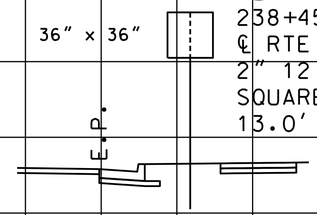


SECTION PERPENDICULAR
TO GLENDALE GARDENS DR.

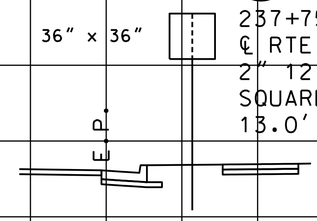
196
238+06
℄ RTE 100 (LT)
4" PIPE POST
19.5'



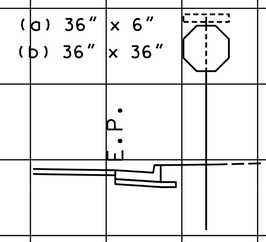
197
238+45
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



195
237+75
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



194
237+31
℄ RTE 100 (LT)
3" PIPE POST
14.5'



SECTION PERPENDICULAR
TO KENMORE DR.

5'

CROSS SECTIONS
SHEET 14 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

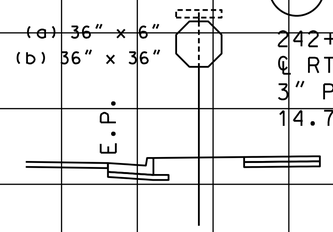
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

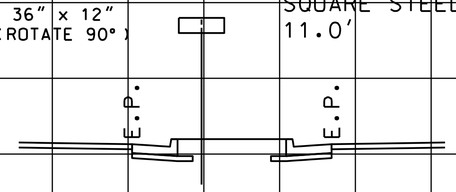
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202
242+47
℄ RTE 100 (RT)
3" PIPE POST
14.75'

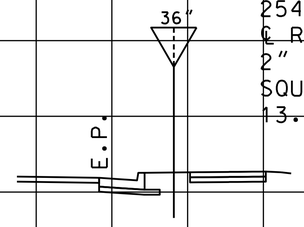


SECTION PERPENDICULAR
TO MARIEDALE DR.

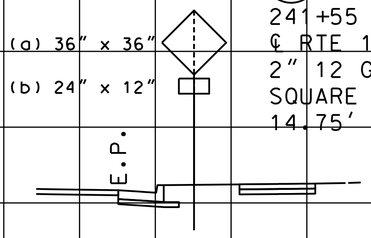
206
251+01
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.0'



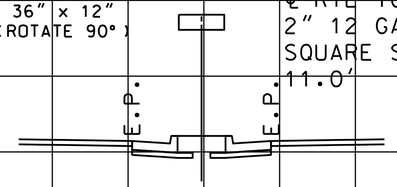
211
254+03
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.00'



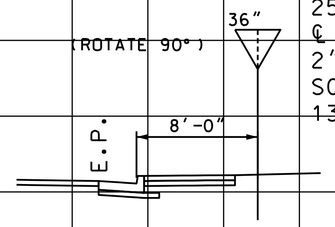
200
241+55
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.75'



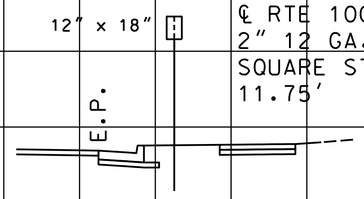
205
249+89
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.0'



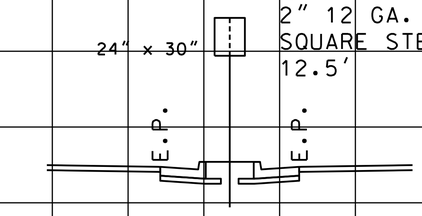
210
253+94
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.00'



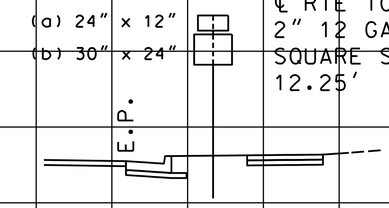
199
239+33
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'



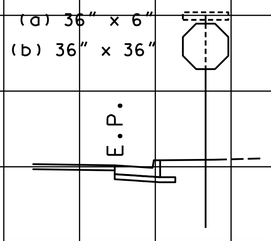
204
249+76
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



209
253+39
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.25'

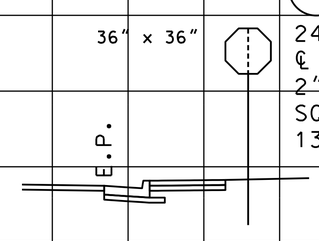


198
238+77
℄ RTE 100 (RT)
3" PIPE POST
14.75'



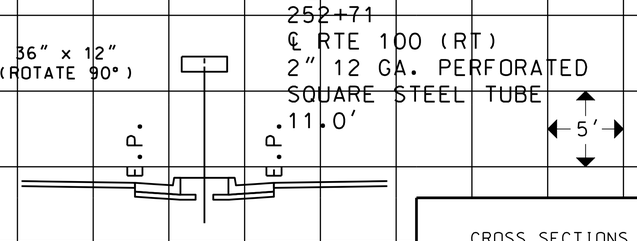
SECTION PERPENDICULAR
TO STURGIS DR.

203
245+93
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



SECTION PERPENDICULAR
TO DICKSON ST.

207
252+71
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.0'



CROSS SECTIONS
SHEET 15 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

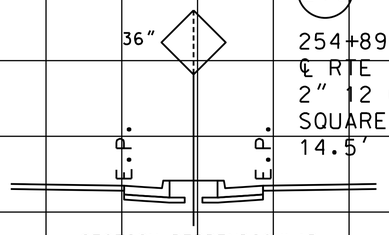
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

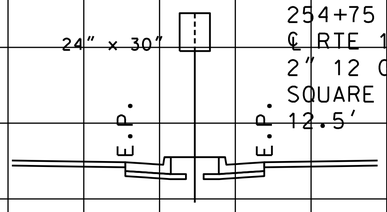
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(216)
254+89
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'



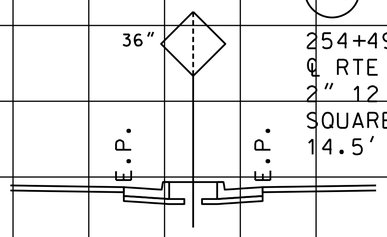
SECTION PERPENDICULAR
TO WOODLAWN AVE.

(215)
254+75
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

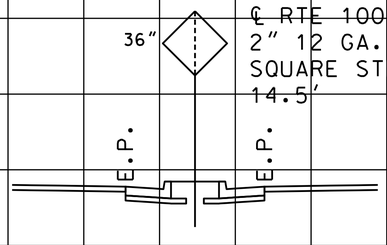


SECTION PERPENDICULAR
TO WOODLAWN AVE.

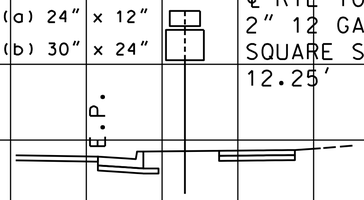
(213)
254+49
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'



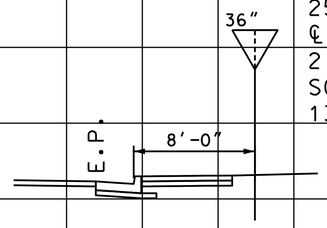
(212)
254+23
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'



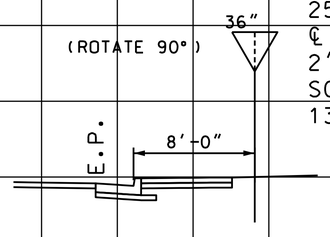
(220)
255+99
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.25'



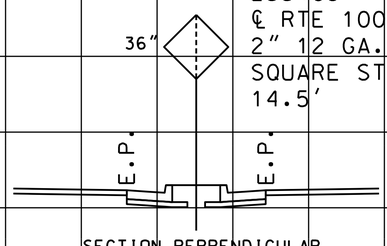
(219)
255+53
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.00'



(218)
255+34
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.00'

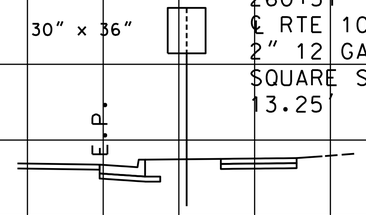


(217)
255+03
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'

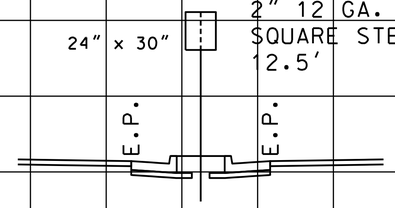


SECTION PERPENDICULAR
TO WOODLAWN AVE.

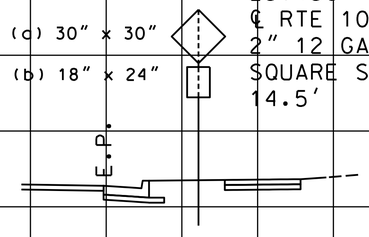
(224)
260+51
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.25'



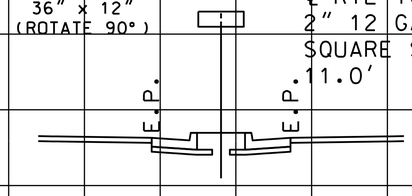
(223)
259+98
℄ RTE 100
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'



(222)
257+56
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'



(221)
257+40
℄ RTE 100
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.0'



CROSS SECTIONS
SHEET 16 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

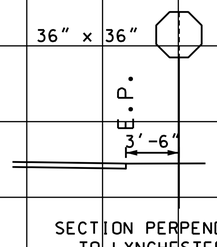
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

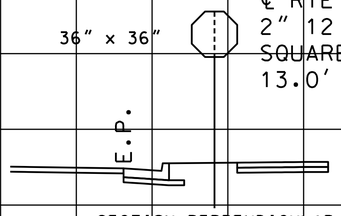
REV.

c:\pwworking\central01\d1457083\XS_16_J6S1718.dgn 10:26:32 AM 2/4/2020



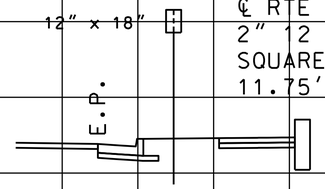
230
269+19
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

SECTION PERPENDICULAR
TO LYNCHESTER LN.

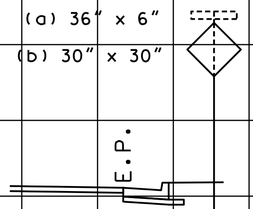


234
271+46
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

SECTION PERPENDICULAR
TO CURRAN AVE.

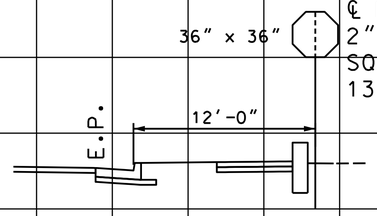


238
274+62
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

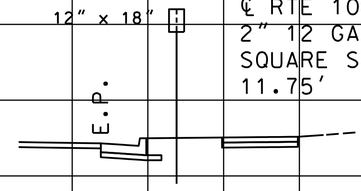


228
266+10
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

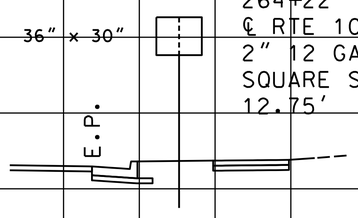
SECTION PERPENDICULAR
TO SYLVAN PL.



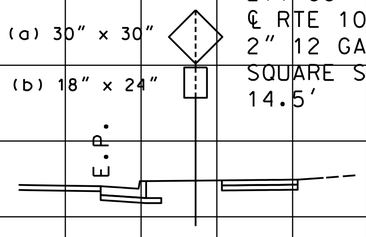
233
271+26
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'



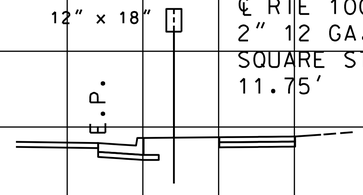
237
274+33
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'



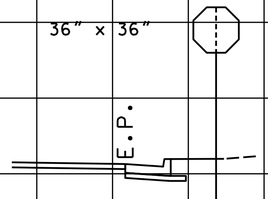
227
264+22
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'



232
271+00
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'

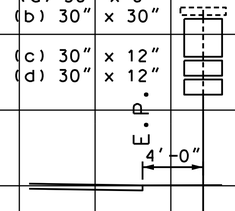


236
273+10
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'



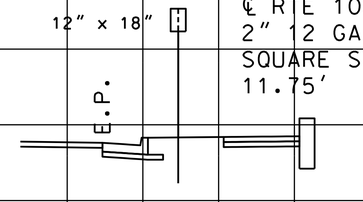
226
263+37
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
13.0'

SECTION PERPENDICULAR
TO WOOD AVE.



231
269+41
℄ RTE 100 (RT)
4" PIPE POST
18.5'

SECTION PERPENDICULAR
TO LYNCHESTER LN.



235
272+02
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

CROSS SECTIONS
SHEET 17 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	17

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

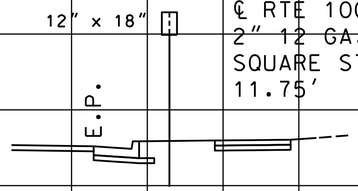
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

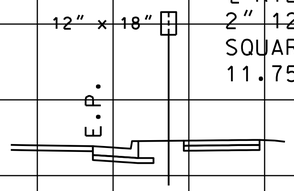
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

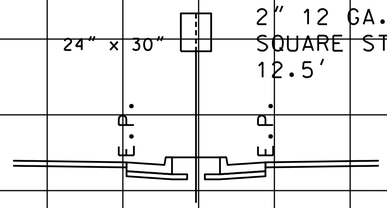
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



241
277+34
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'

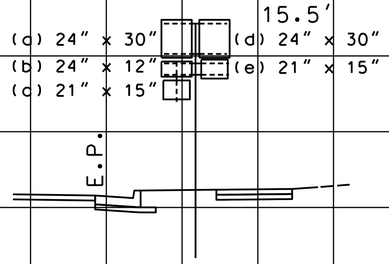


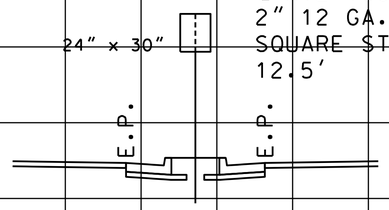
244
278+93
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.75'



247
281+01
℄ RTE 100
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

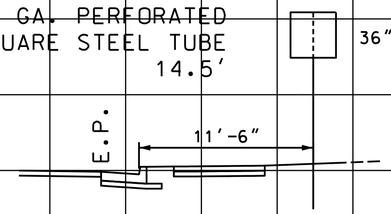
240
276+97
℄ RTE 100 (RT)
3" PIPE POST
15.5'



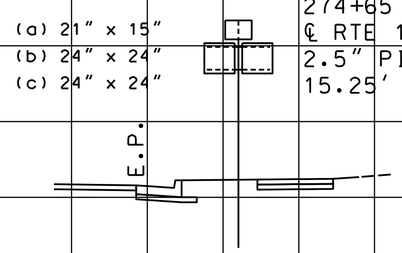


243
278+71
℄ RTE 100
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.5'

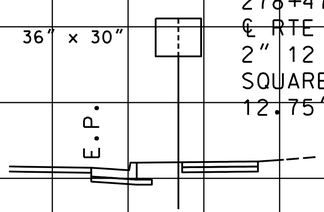
246
280+28
℄ RTE 100 (LT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
14.5'



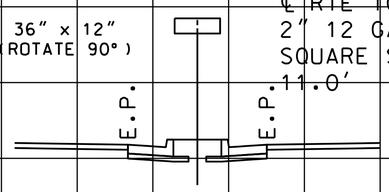
239
274+65
℄ RTE 100 (RT)
2.5" PIPE POST
15.25'

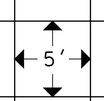


242
278+47
℄ RTE 100 (RT)
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
12.75'



245
279+50
℄ RTE 100
2" 12 GA. PERFORATED
SQUARE STEEL TUBE
11.0'





CROSS SECTIONS
SHEET 18 OF 18

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

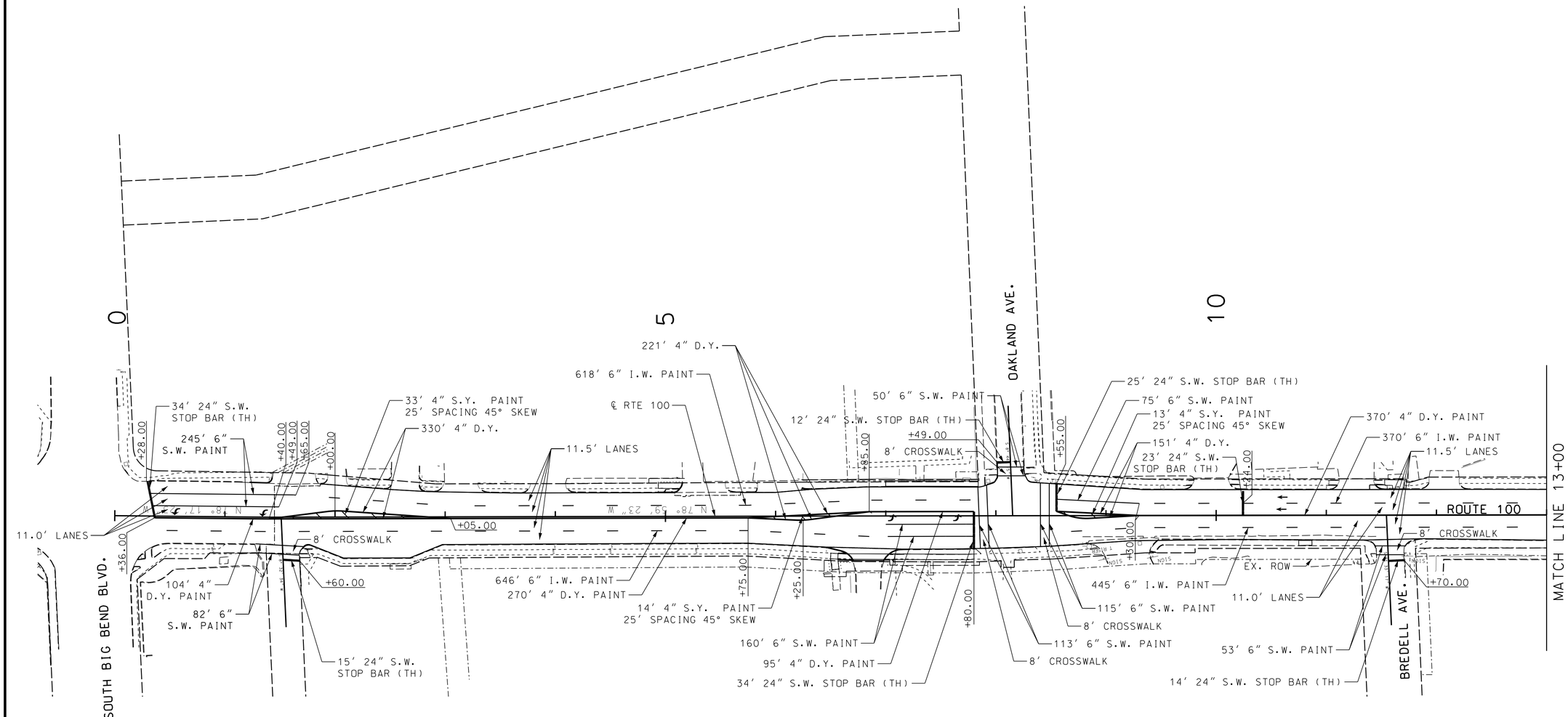
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
____	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

NOTE:
1. ALL PAVEMENT MARKINGS SHALL BE WATERBORNE PAVEMENT MARKING PAINT. TYPE L BEADS UNLESS OTHERWISE SPECIFIED.
2. (TH) DESIGNATES PERFORMED THERMOPLASTIC PAVEMENT MARKING.

SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 1 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: PM001
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

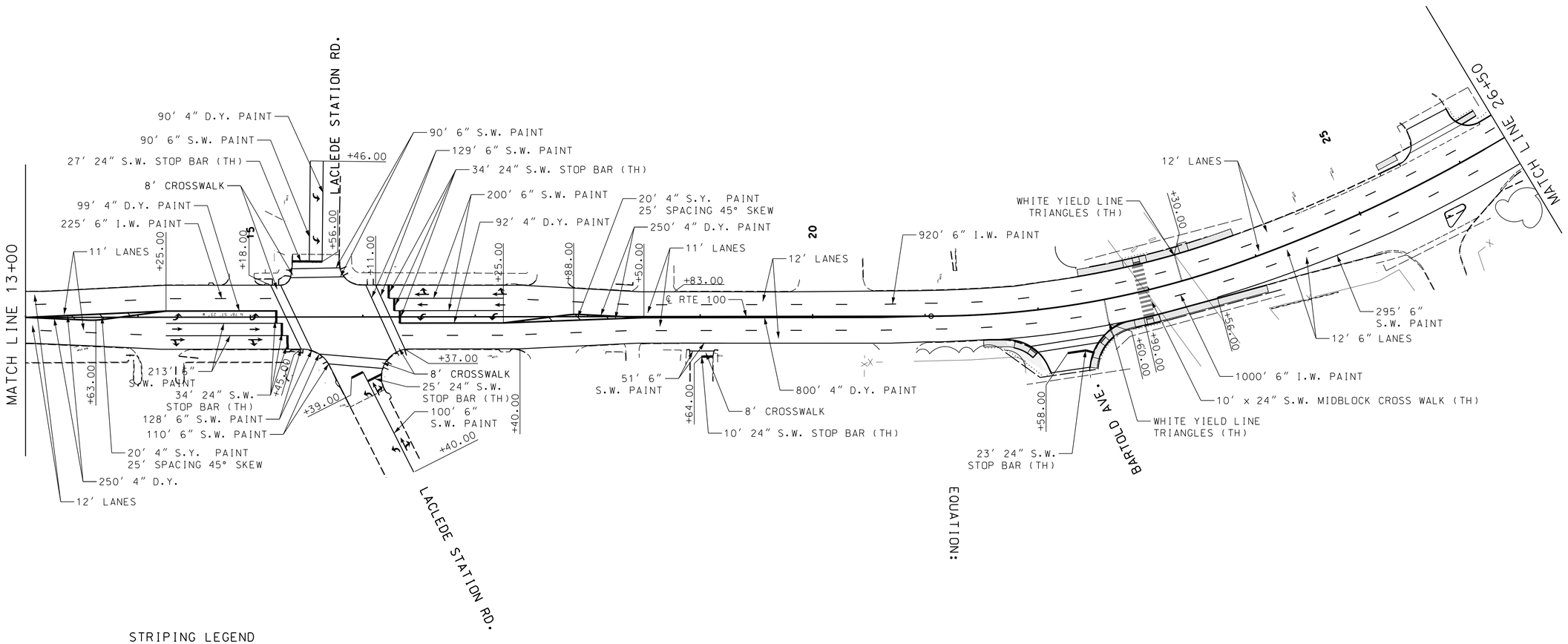
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
____	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

NOTE:
1. ALL PAVEMENT MARKINGS SHALL BE WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS UNLESS OTHERWISE SPECIFIED.
2. (TH) DESIGNATES PERFORMED THERMOPLASTIC PAVEMENT MARKING.

SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 2 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM002

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

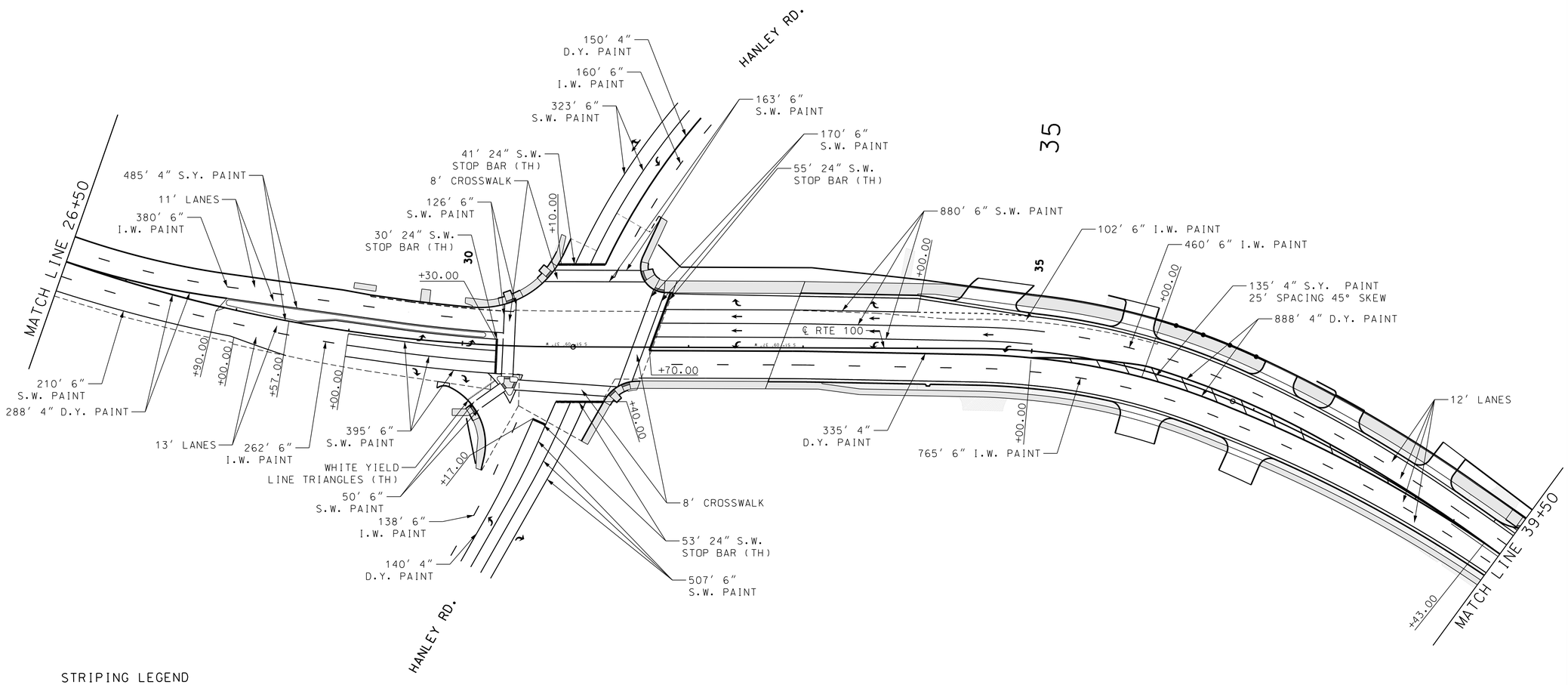
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
_ _ _ _	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

NOTE:
1. ALL PAVEMENT MARKINGS SHALL BE WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS UNLESS OTHERWISE SPECIFIED.
2. (TH) DESIGNATES PERFORMED THERMOPLASTIC PAVEMENT MARKING.

SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 3 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM003

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

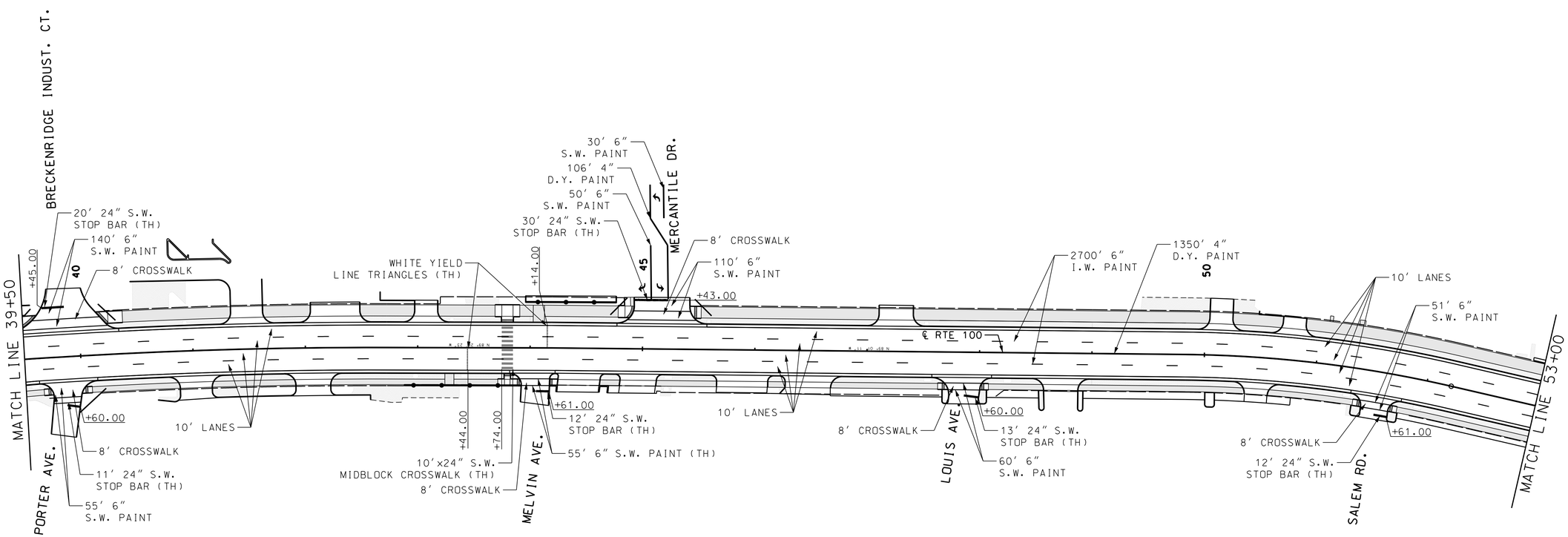
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
_ _ _ _	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

NOTE:
1. ALL PAVEMENT MARKINGS SHALL BE WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS UNLESS OTHERWISE SPECIFIED.
2. (TH) DESIGNATES PERFORMED THERMOPLASTIC PAVEMENT MARKING.

SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 4 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM004

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

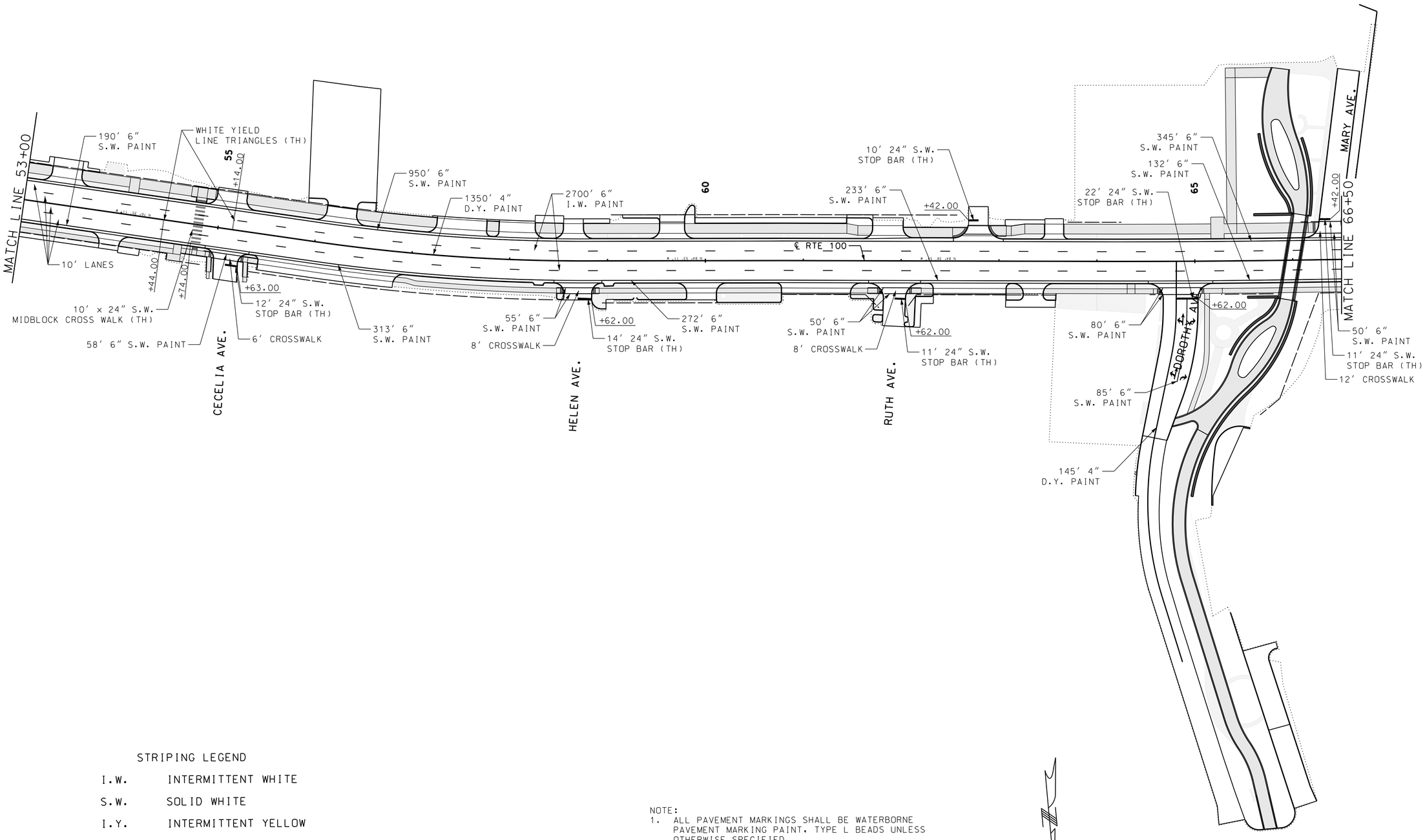
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
_ _ _ _	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

NOTE:
1. ALL PAVEMENT MARKINGS SHALL BE WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS UNLESS OTHERWISE SPECIFIED.
2. (TH) DESIGNATES PERFORMED THERMOPLASTIC PAVEMENT MARKING.

SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 5 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM005

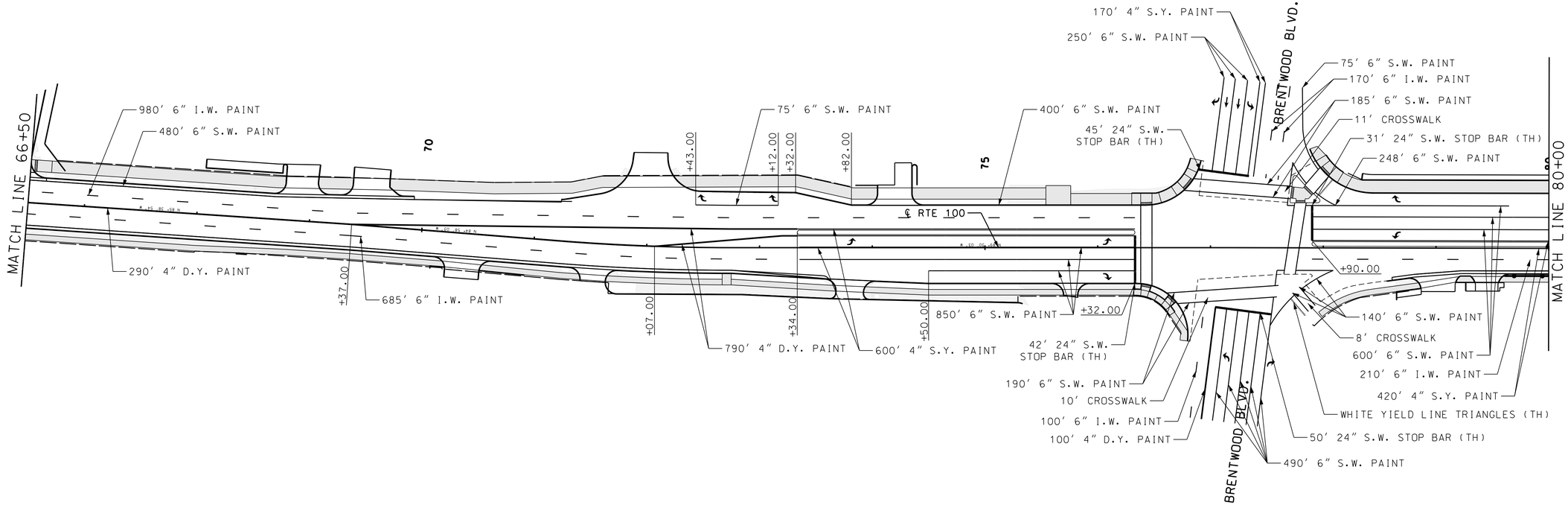
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
____	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 6 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM006

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

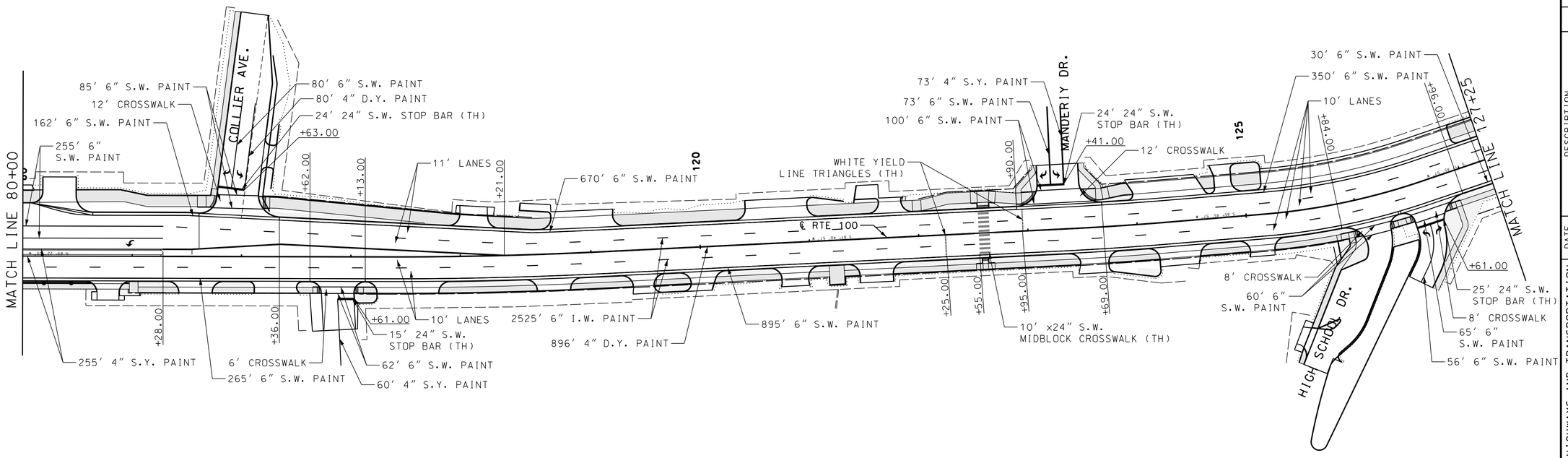
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
_ _ _ _	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 7 OF 19

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DATE PREPARED 2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM007

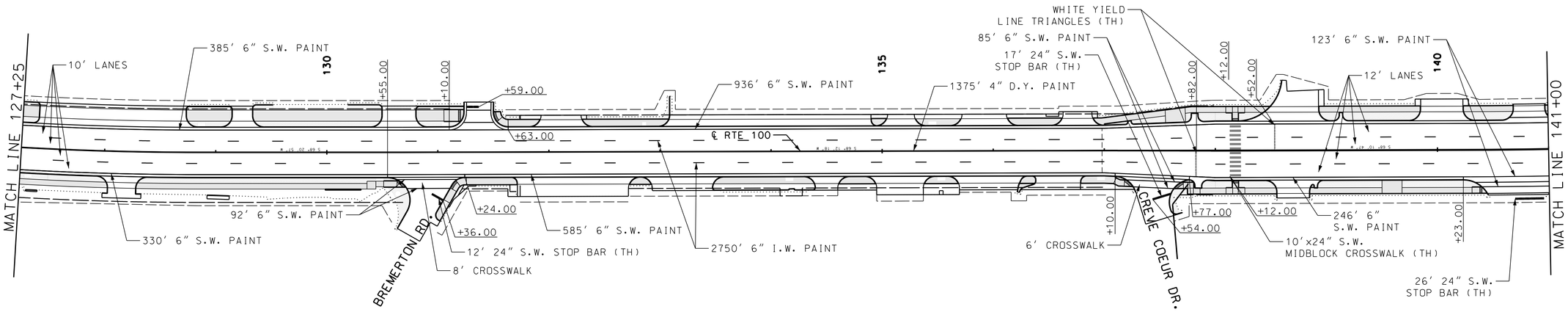
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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DESCRIPTION | DATE | REV.

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105 WEST CAPITOL
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STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 8 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM008

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

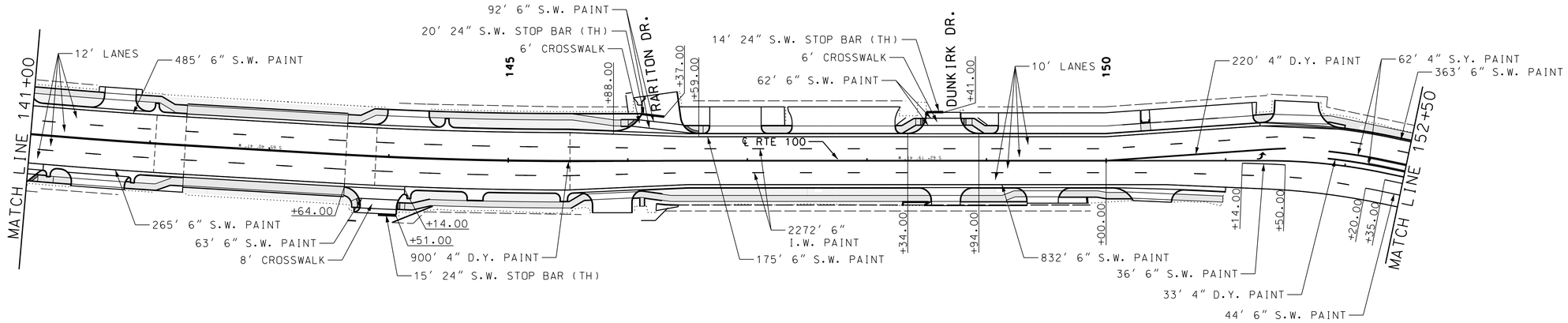
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
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_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 9 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM009

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

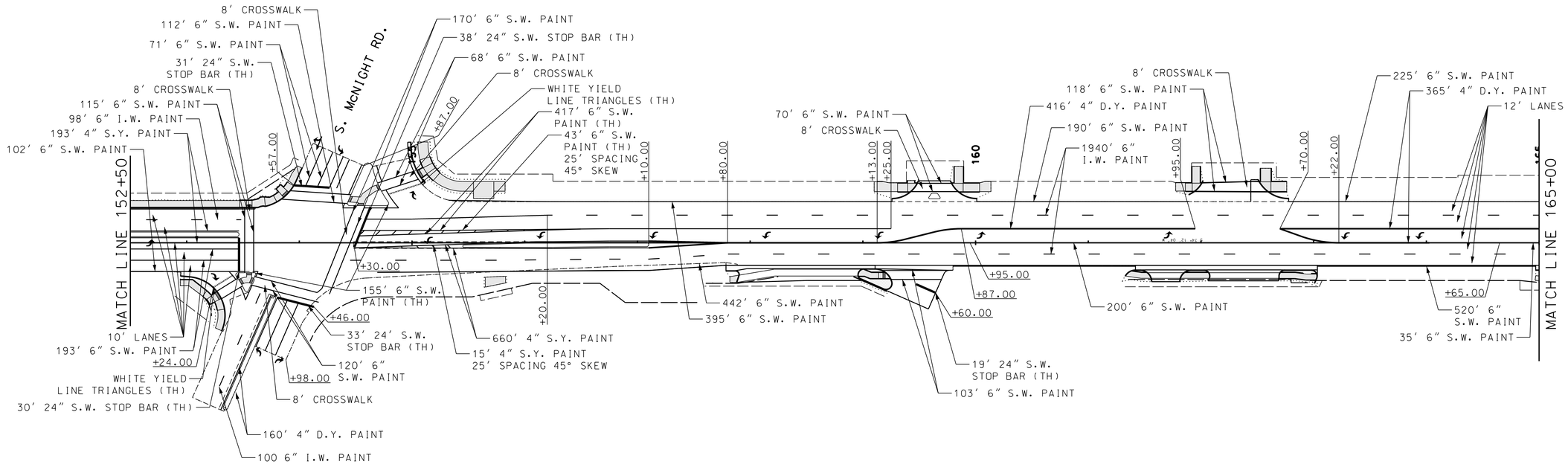
DESCRIPTION | DATE

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St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
____	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 10 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 2/4/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: PM010
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

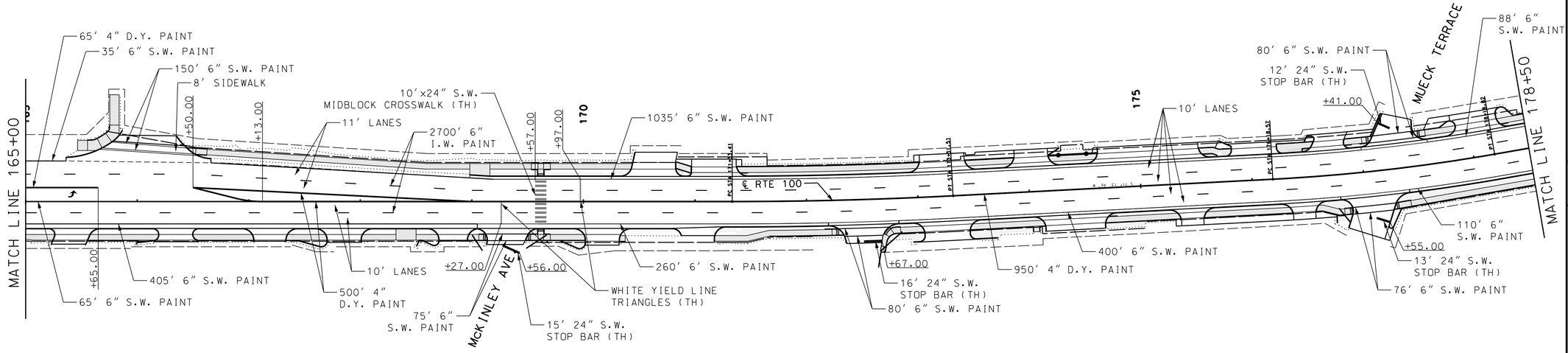
DESCRIPTION | DATE

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REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
____	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 11 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM011

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

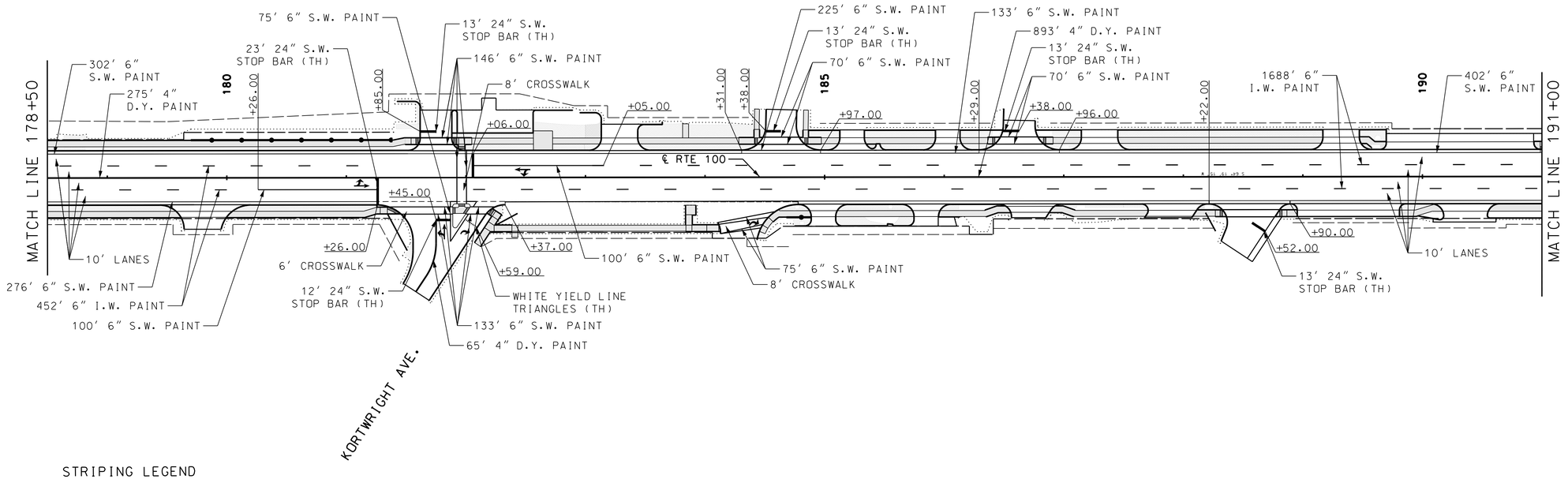
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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HDR Engineering, Inc.
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REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
____	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 12 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM012

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

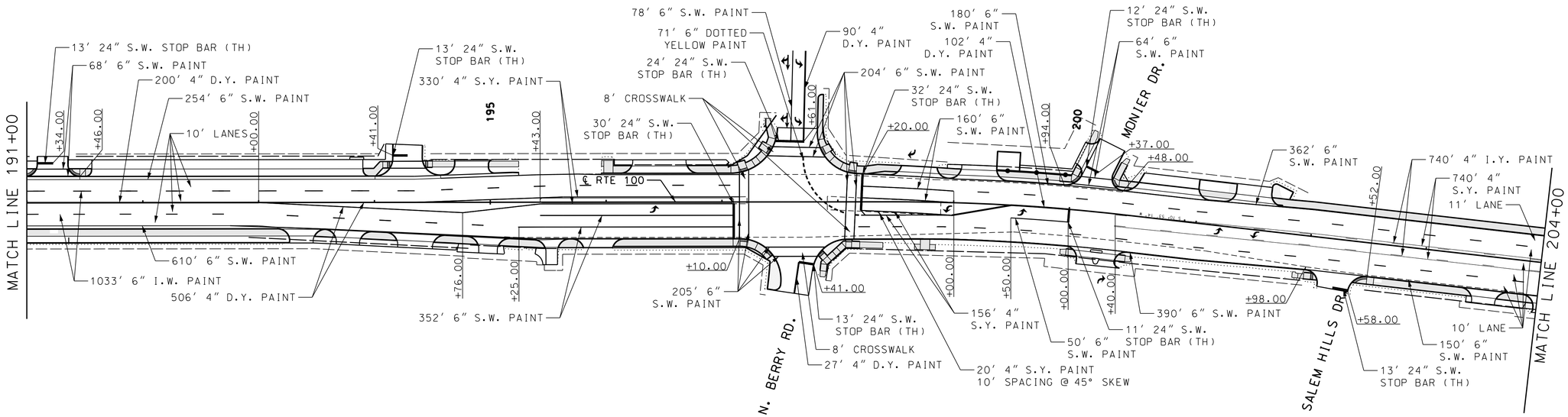
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
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REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
_ _ _ _	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 13 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM013

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

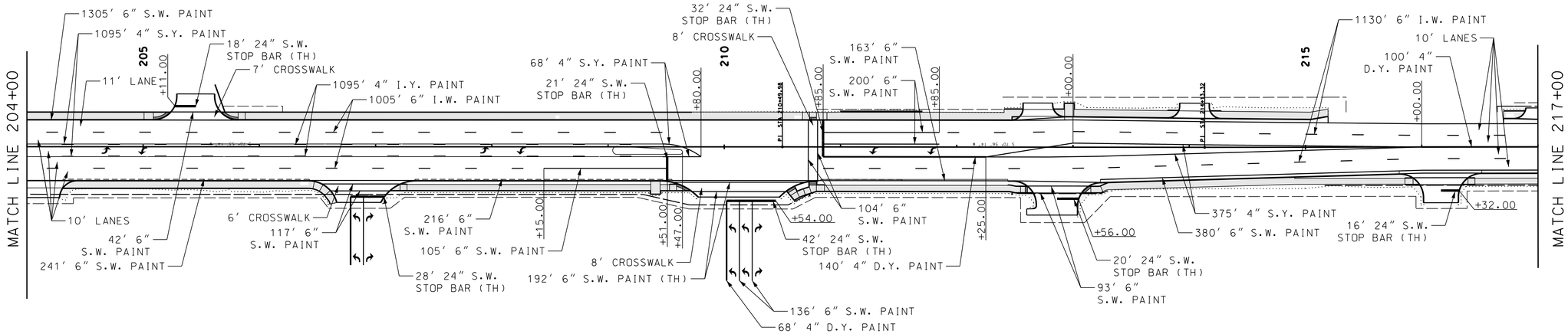
DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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314-425-8300
Certificate of Authority: 000856

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 14 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM014

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

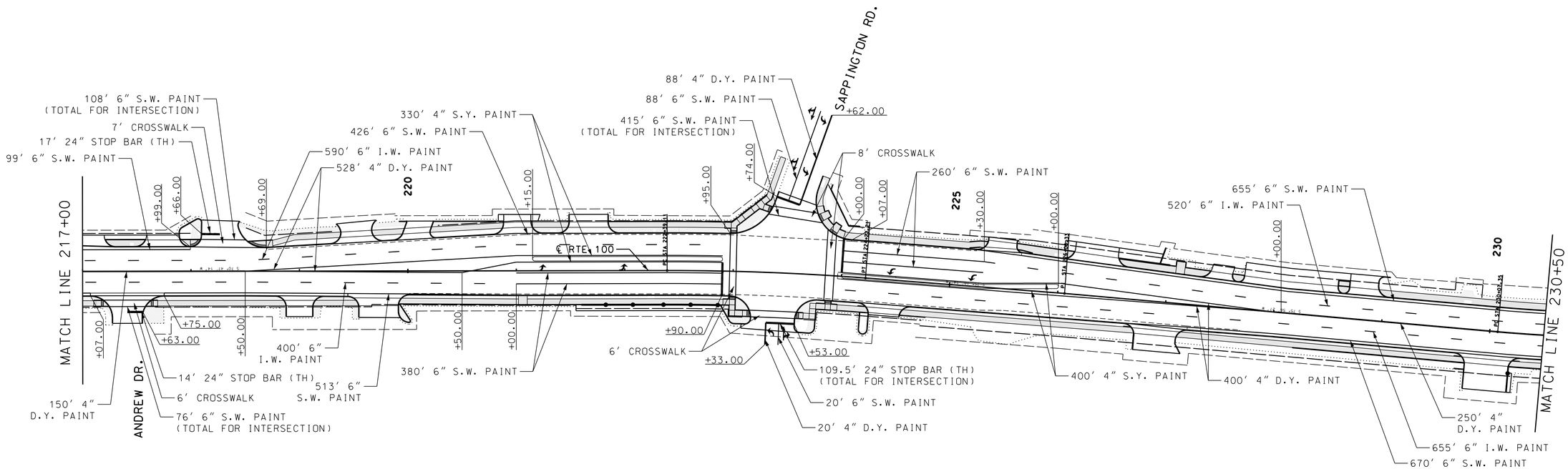
DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 15 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM015

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

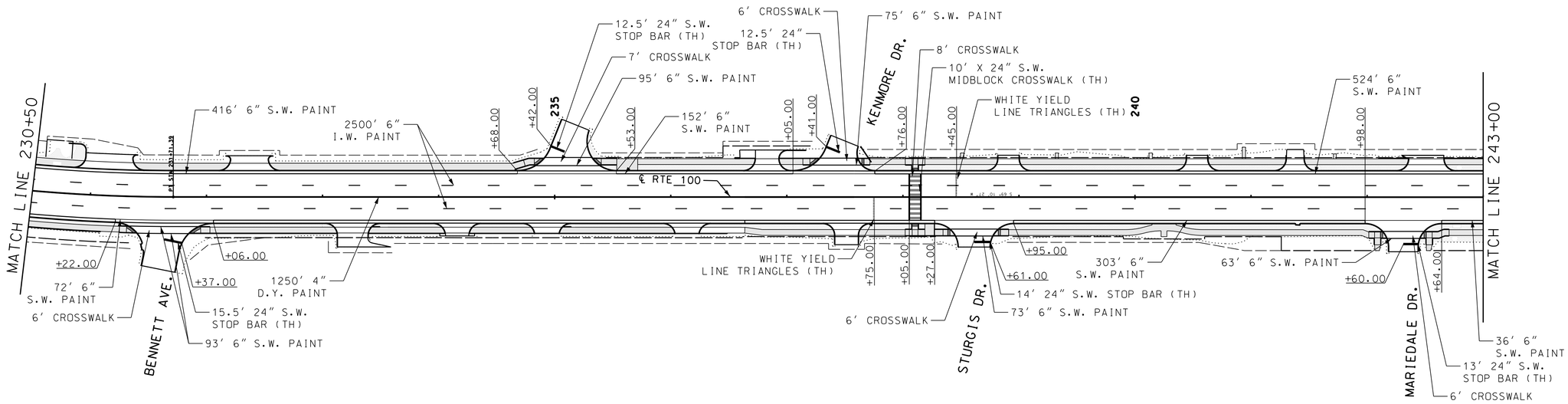
DESCRIPTION | DATE

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STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 16 OF 19

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM016

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

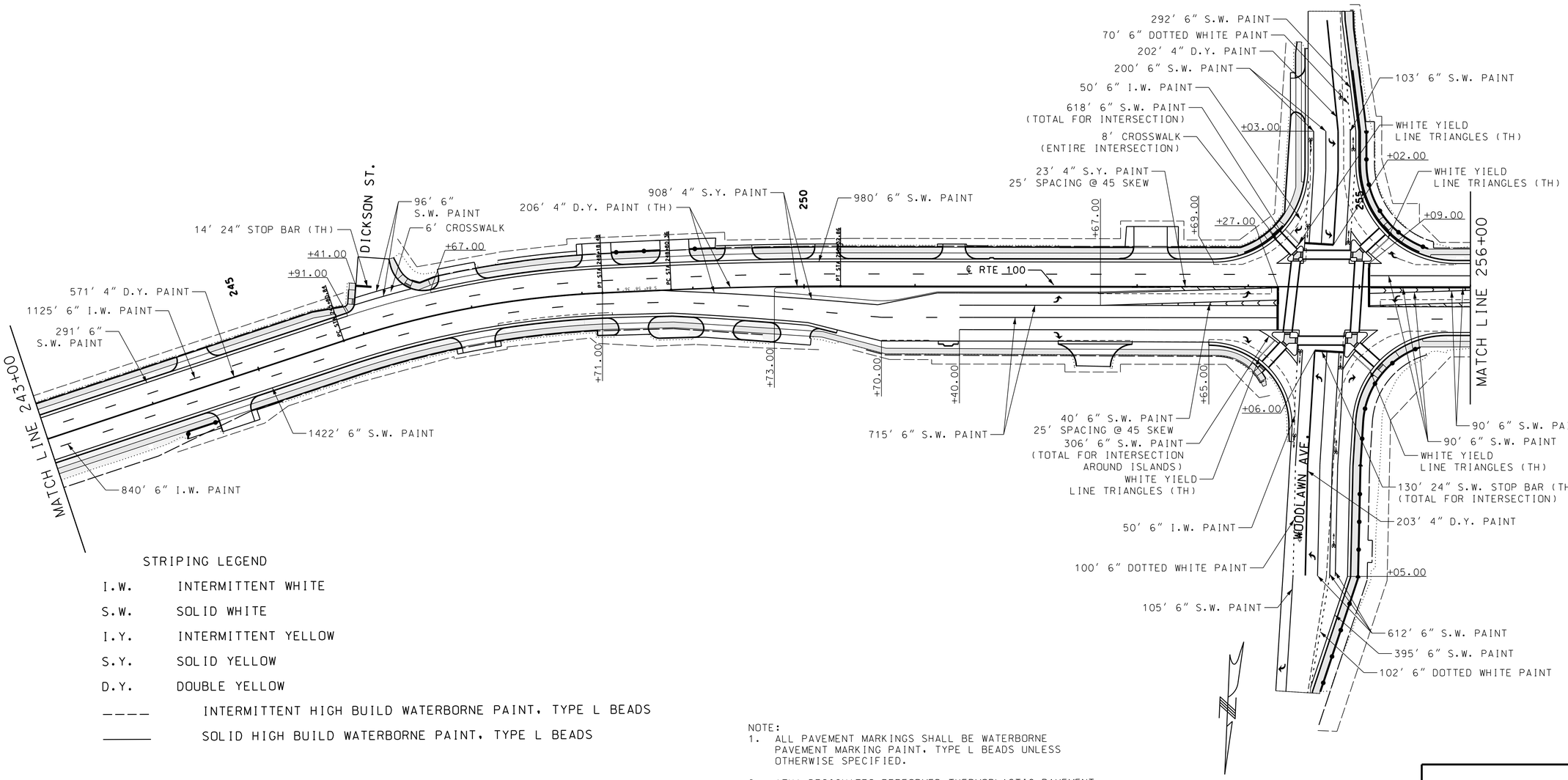
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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STRIPING LEGEND

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SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 17 OF 19

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DATE PREPARED
2/4/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	PM017

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

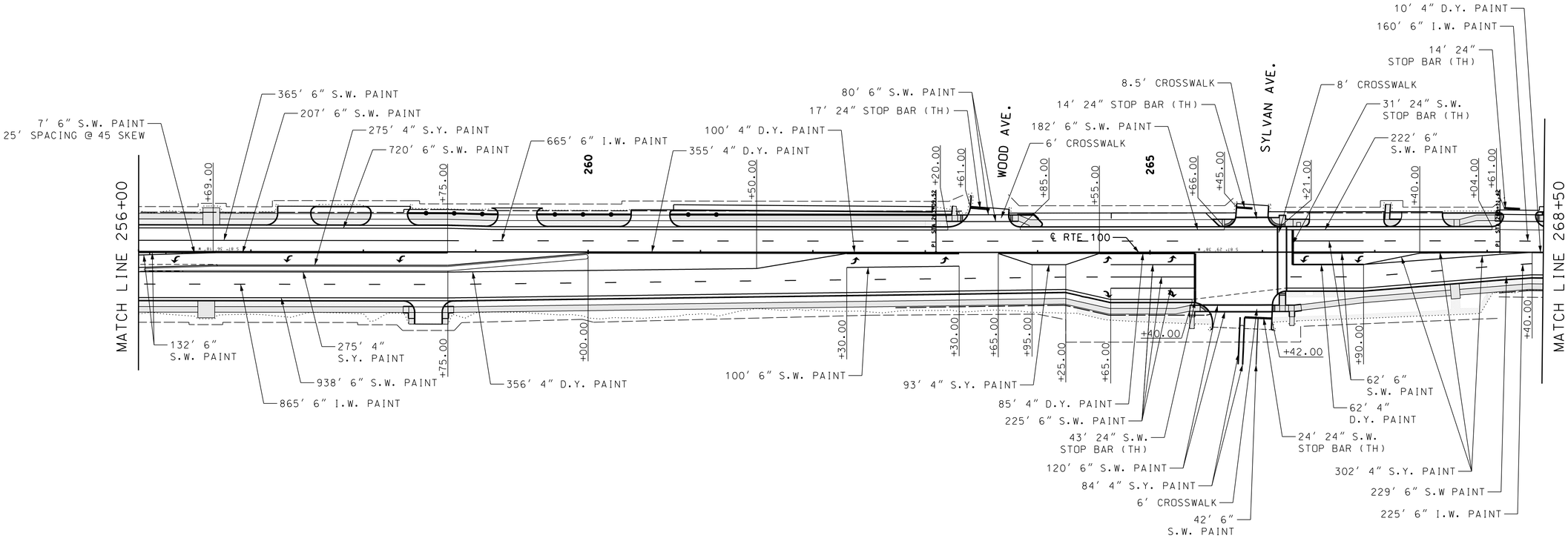
REV.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
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S.Y.	SOLID YELLOW
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SCALE
0 50 100 150

PAVEMENT MARKING SHEET 18 OF 19

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DATE PREPARED: 2/4/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: PM018
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

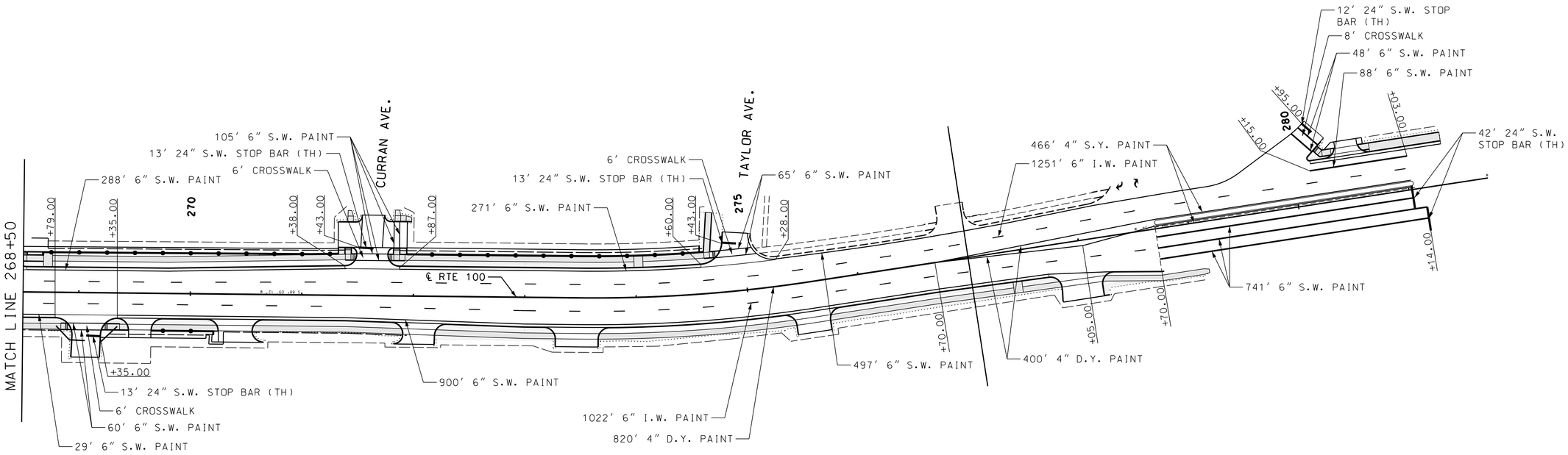
DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

REV.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
I.Y.	INTERMITTENT YELLOW
S.Y.	SOLID YELLOW
D.Y.	DOUBLE YELLOW
_ _ _ _	INTERMITTENT HIGH BUILD WATERBORNE PAINT, TYPE L BEADS
_____	SOLID HIGH BUILD WATERBORNE PAINT, TYPE L BEADS

NOTE:
1. ALL PAVEMENT MARKINGS SHALL BE WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS UNLESS OTHERWISE SPECIFIED.
2. (TH) DESIGNATES PERFORMED THERMOPLASTIC PAVEMENT MARKING.

SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 19 OF 19

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DATE PREPARED: 2/4/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: PM019
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

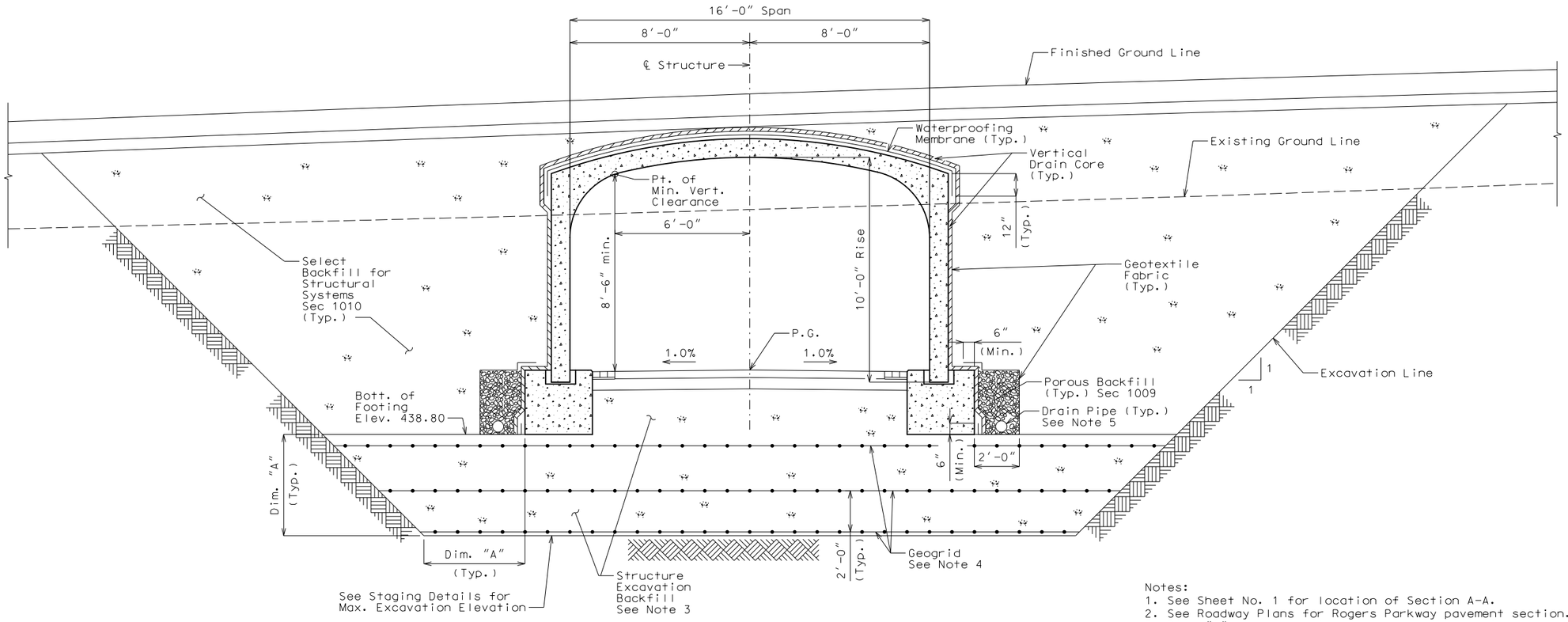
DESCRIPTION | DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

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SECTION A-A

Notes:
1. See Sheet No. 1 for location of Section A-A.
2. See Roadway Plans for Rogers Parkway pavement section.
3. Dim. "A" overexcavation as required to acheive allowable bearing pressures as determined by Geotechnical Engineer.
   Dim. "A" =
   4′-6″ for 1,500 psf Allowable Bearing Pressure
   3′-0″ for 2,000 psf Allowable Bearing Pressure
4. Backfill shall meet the electrochemical requirements of Sec. 1010.4.2.
5. Geogrid shall be an integrally formed polypropylene biaxial geogrid with the minimum average roll values for both MD and XMD of 410 lb/ft (6.0 kN/m) for Tensile Strength at 2% Strain and 1,310 lb/ft (19.2 kN/m) for Ultimate Tensile Strength determined in accordance with ASTM D 4759. The geogrid shall have 100% resistance to Long Term Degradation when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing. The geogrid shall have 100% resistance to UV Degradation when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D 4355. Geogrid will be considered completely covered by the contract unit price for Precast Concrete Structures.
6. All drain pipe shall slope 1 to 2 percent. Drain pipe may be either 4-inch diameter corrugated polyvinyl chloride (PVC) of polyethelene (PE) drain pipe. Perforated pipe shall be placed within the porous backfill and plain pipe shall be used to connect peforated pipe to manholes at either end of the underpass. Separate drain pipes shall be placed for each stage with caps installed on the ends of the drain pipes near the stage construction line.
7. Porous Backfill, Drain Pipe, pipe fittings, and Geotextile Fabric will be considered completely covered by the contract unit price for Vertical Drains for Three-Sided Structures.

TYPICAL SECTION

Detailed MAR. 2020
Checked MAR. 2020

Note: This drawing is not to scale. Follow dimensions.

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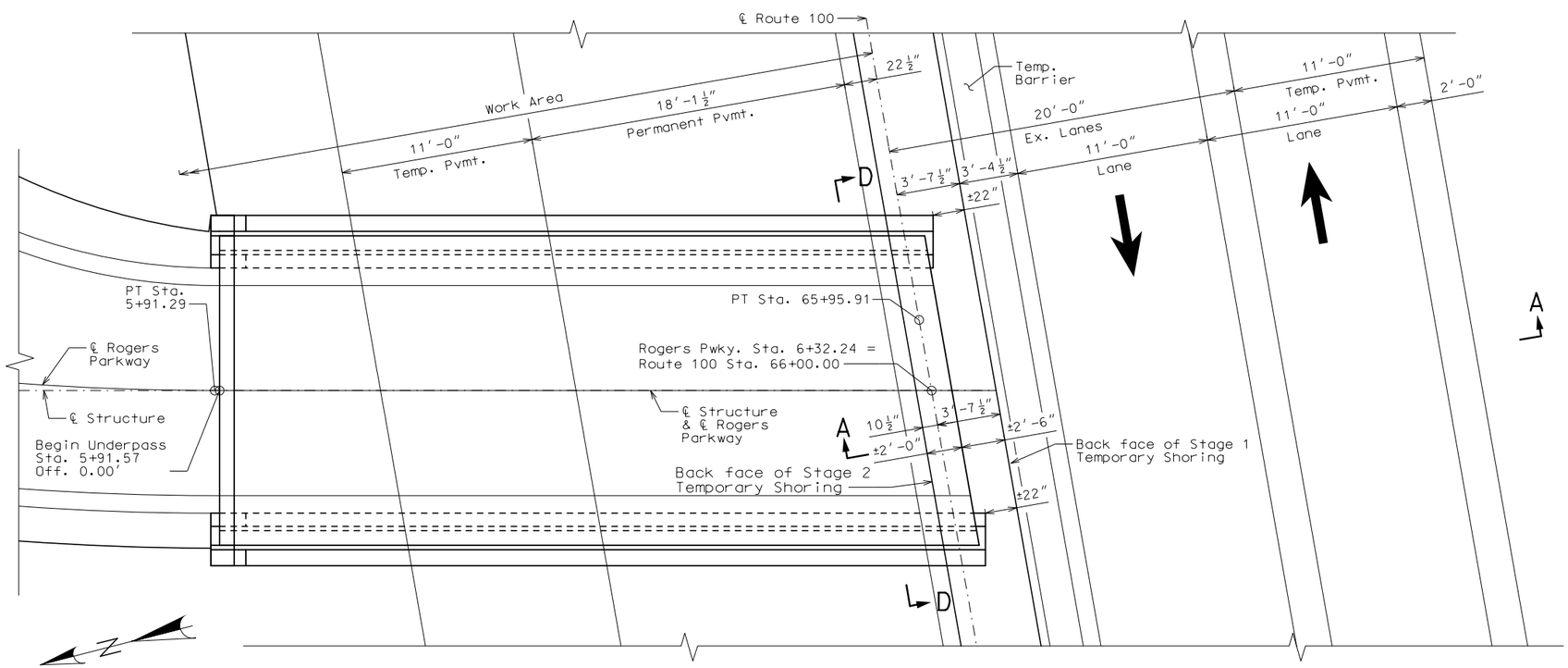
DATE PREPARED 3/20/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J61718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION	REV.
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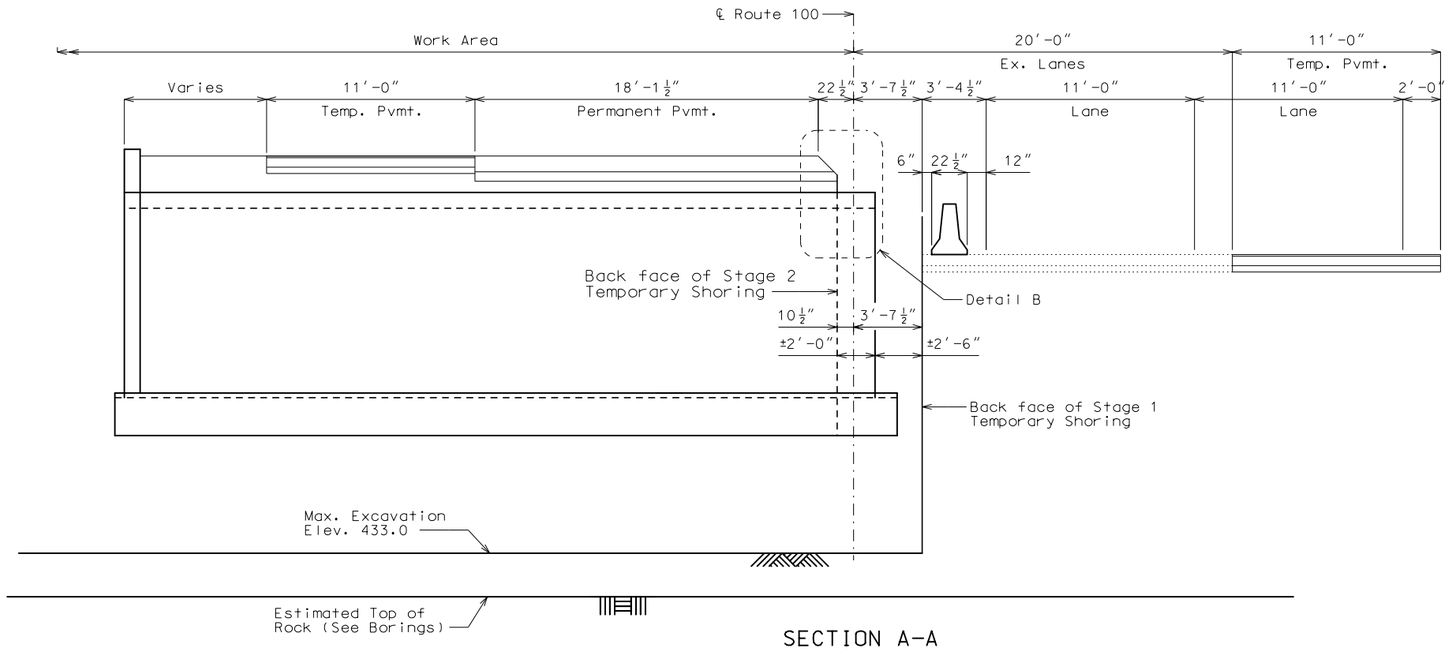
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528



STAGE 1 PLAN



SECTION A-A

Notes:
1. See Traffic Control sheets for information not shown.

STAGING DETAILS - STAGE 1

Detailed MAR. 2020
Checked MAR. 2020

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 9

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DATE PREPARED 3/20/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J61718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

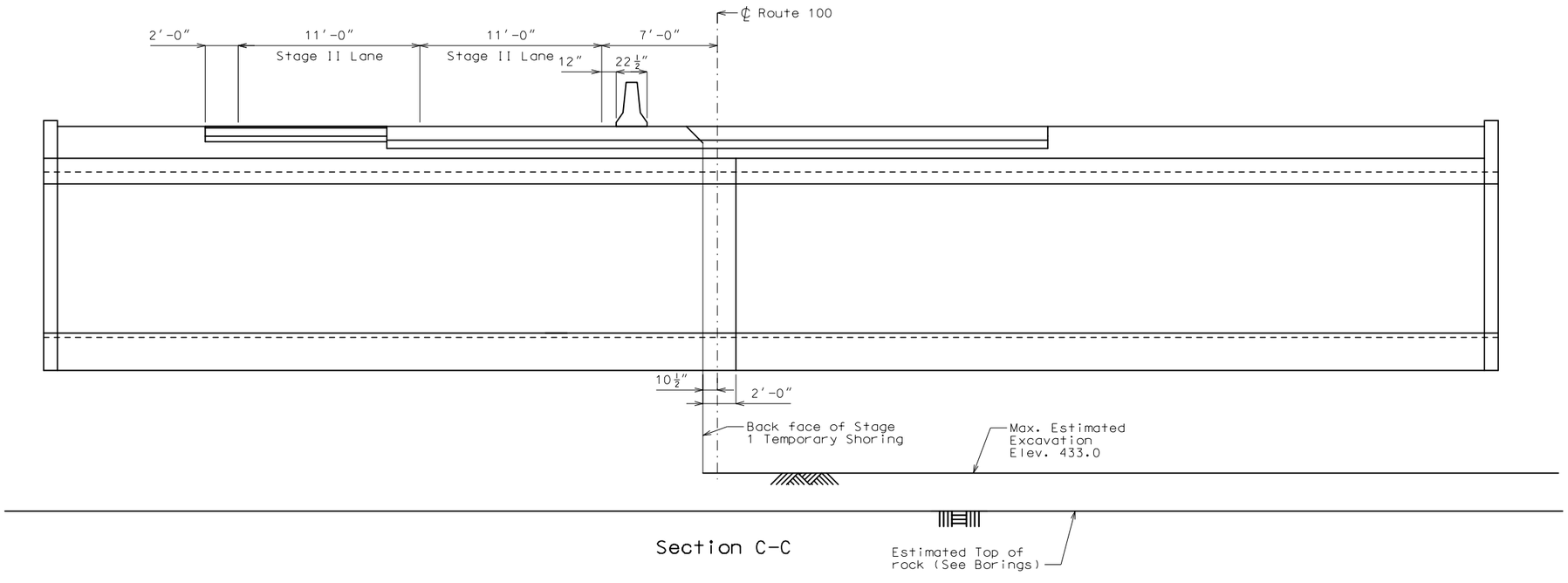
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ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 003528

REV.

P:\2017\170235\4 CADD - DWG\4.4 Struc\B_X0001_003_J6S31718B_Staging Dtls.dgn 3/20/2020 12:14:37 PM



Section C-C

STAGING DETAILS - STAGE 2

Detailed MAR. 2020
Checked MAR. 2020

Note: This drawing is not to scale. Follow dimensions.

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ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO.

COUNTY ST. LOUIS

JOB NO. J61718B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION
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REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
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N/F
DOWLING TEC LLC

21J231754
2707 S. BIG BEND BLVD.

N/F
DOWLING TEC LLC
DB. 122254 PG. 1224
PARCELS 1 & 2

21J231635
7518 MANCHESTER RD

N/F
FOODMAKER INC.
DB. 6434, PG. 464

21J231644
7520 MANCHESTER RD

N/F
RICHARD MORRIS
DB. 7149 PG. 1654

21J230654
7534 MANCHESTER RD

SI 106 EXISTING SINGLE INLET
MSD #21J4-138C

5' EASEMENT GRANTED TO UNION ELEC.
DB. 3799 PG. 148
DB. 3817 PG. 253
5' EASEMENT GRANTED TO UNION ELEC.

POT STA 0+00.00

PI STA 1+39.90

EXISTING 12" PIPE

EXISTING 12" PIPE

℄ ROUTE 100

MSD #21J4-130C (ATG)

EXISTING 12" PIPE

SI 105 EXISTING SINGLE INLET
MSD #21J4-139C

N/F
D & D REAL ESTATE LLC
DB. 20301, PG. 2861

21J231745
2633 BIG BEND BLVD

SOUTH BIG BEND BLVD

MARTINI DR.

MATCHLINE STA. 4+50.00

SCALE
0 20 40 60

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2/5/2020

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100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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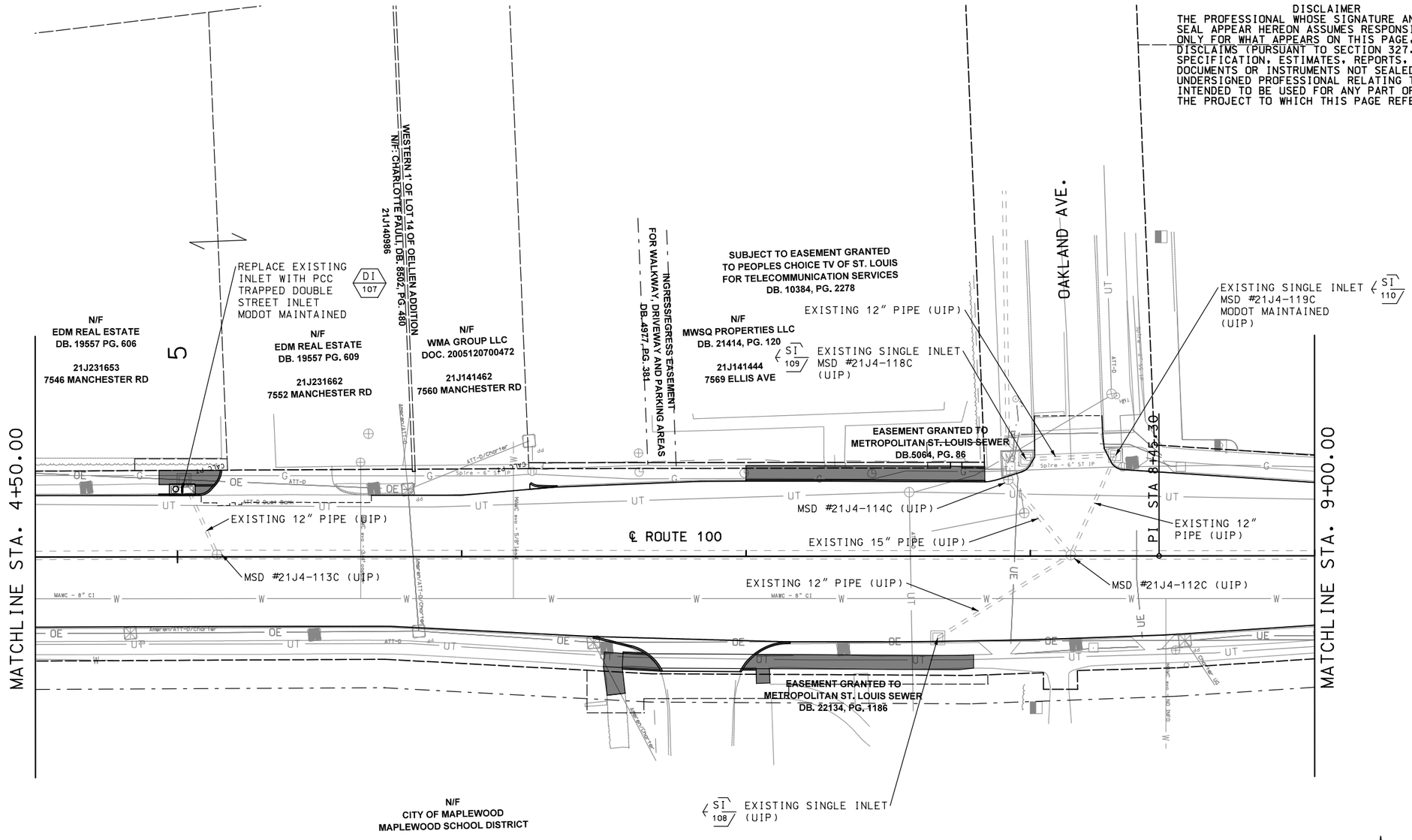
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 1 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\001_DP_01_J6S1718_20.dgn 5:47:26 PM 2/5/2020

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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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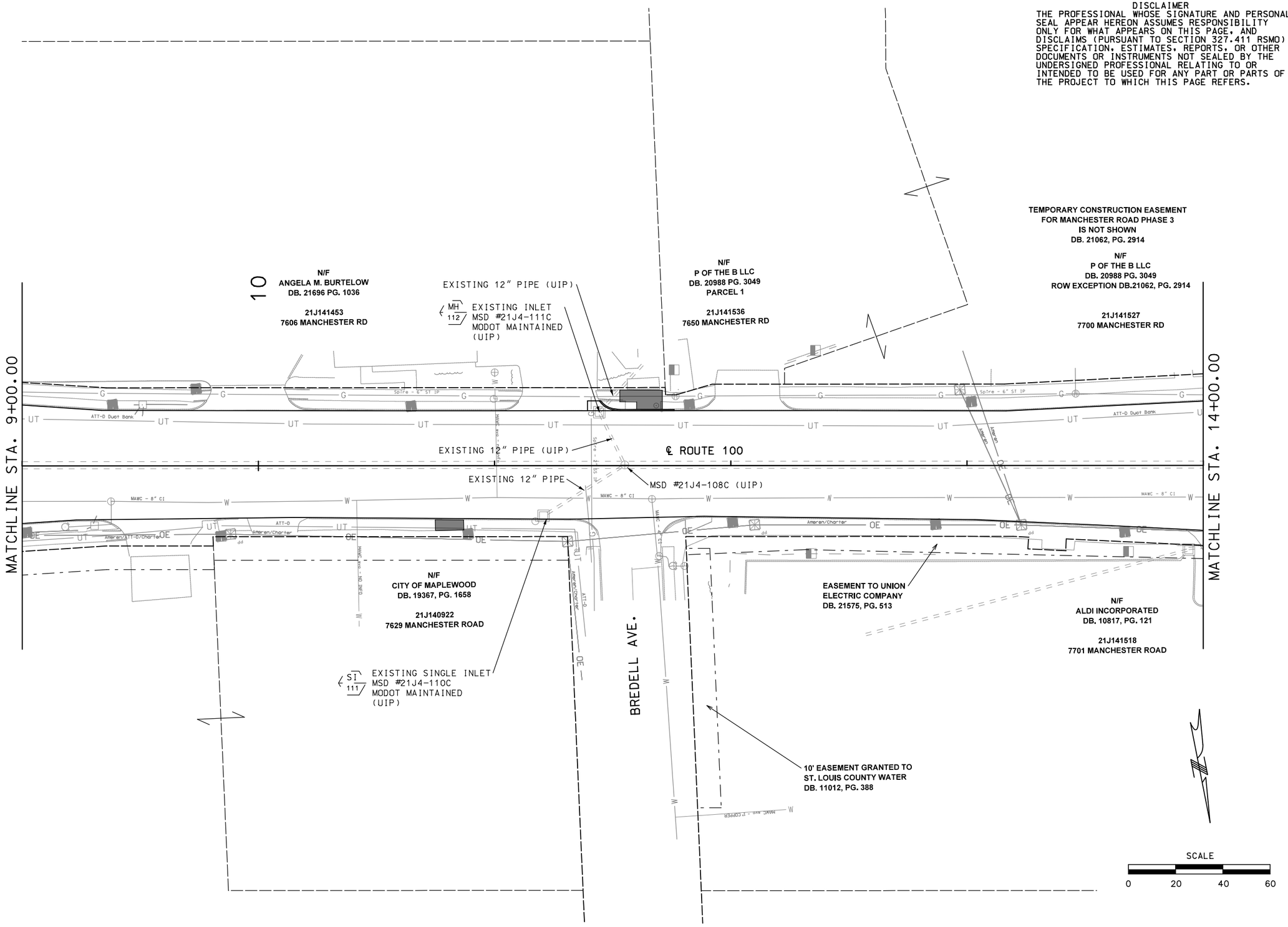
DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 2 OF 92

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\002_DP_02_J6S1718_20.dgn 5:47:26 PM 2/5/2020

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ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 3 OF 92

REV.

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TEMPORARY CONSTRUCTION EASEMENT FOR MANCHESTER ROAD PHASE 3 IS NOT SHOWN DB. 21062, PG. 2914

N/F
P OF THE B LLC
DB. 20988 PG. 3049
ROW EXCEPTION DB.21062, PG. 2914

SI 115 EXISTING SINGLE INLET
MSD #21J4-0256D
MODOT MAINTAINED
(UIP)

21J141527
7700 MANCHESTER RD

SI 114 EXISTING SINGLE INLET
MSD #21J4-0255D
MODOT MAINTAINED
(UIP)

EXISTING 12" PIPE (UIP)

LACLEDE STATION RD.

15

N/F
P OF B LLC
DB. 20988 PG. 3049
PARCEL 1

21J141509
7820 MANCHESTER RD

DI 119 EXISTING DOUBLE INLET
MSD #21J4-0248D
MODOT MAINTAINED
(UIP)

MATCHLINE STA. 14+00.00

EXISTING 12" PIPE (UIP)
MSD #21J4-0257D (UIP)

MSD #21J4-098C (UIP)

EXISTING 10" PIPE (UIP)

MSD #21J4-0254D (UIP)

℄ ROUTE 100

MSD #21J4-094C (UIP)

EXISTING 12" PIPE (UIP)

MSD #21J4-102C (UIP)

EXISTING 12" PIPE (UIP)

EXISTING 12" PIPE (UIP)

MATCHLINE STA. 19+50.00

EASEMENT TO UNION ELECTRIC COMPANY
DB. 21575, PG. 513

PERMANENT WALL EASEMENT
DB. 21194, PG. 2762

60' EASEMENT TO MISSOURI AMERICAN WATER
DB. 15052, PG. 2322

SI 116 EXISTING SINGLE INLET
MSD #21J4-0252D
(UIP)

SI 117 EXISTING SINGLE INLET
MSD #21J4-0253D
(UIP)

LACLEDE STATION RD.

N/F
W K J PROPERTIES LLC
DB. 11309, PG. 2480

21J141554
7803 MANCHESTER ROAD

EXISTING DOUBLE INLET
MSD #21J4-0249D
MODOT MAINTAINED
(UIP)

DI 118

N/F
7829 MANCHESTER LLC
DB. 21554, PG. 1206

21J140610
21J140858
7821-7829 MANCHESTER ROAD

DI 120 EXISTING DOUBLE INLET
MSD #21J4-0250D
MODOT MAINTAINED
(UIP)

SCALE
0 20 40 60

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
—

BRIDGE NO.
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DESCRIPTION

DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 4 OF 92

REV.

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MATCHLINE STA. 19+50.00

EXISTING SINGLE INLET MSD #21J4-0247D MODOT MAINTAINED (UIP)
SI 121

N/F
SUNNEN PRODUCTS CO.
DB. 21908 PG. 3721
PARCEL 1

21J130884
7844 MANCHESTER RD

EXISTING 12" PIPE (UIP)

MSD #21J4-0246D (UIP)

SI 122 EXISTING SINGLE INLET MSD #21J4-0245D (UIP)

EXISTING 12" PIPE (UIP)

EXISTING 30" PIPE (UIP)

EXISTING 36" VCP (UIP)

EXISTING 12" PIPE (UIP)

PCC STA 21+04.55

EQUATION
Sta 21+04.40 BK =
Sta 21+04.55 AH

MSD #21J4-103C (UIP)

℄ ROUTE 100

EXISTING 42" VSB (UIP)
(SEGMENTED BLOCK)

PROPOSED 32'- 15" GROUP B PIPE

EASEMENT GRANTED TO UNION ELEC.
DB. 21557, PG. 479

N/F
LUKECO ENTERPRISES
DB. 14427, PG. 1923

21J130949
7835 MANCHESTER ROAD

SI 123A PROPOSED PCC SINGLE STREET INLET MODOT MAINTAINED

DI 123B REPLACE EXISTING INLET WITH PCC DOUBLE STREET INLET MODOT MAINTAINED

CIRCLE DR.

SUBJECT TO PERMANENT EASEMENT TO THE BI-STATE DEVELOPMENT AGENCY FOR THE PURPOSE OF THE CROSS COUNTY EXTENSION RECORDED IN DB. 14966, PG. 1313. SAID EASEMENT ENCOMPASSES PORTION OF PARCEL 19 WHICH ADJOINS MANCHESTER ROAD, SAID EASEMENT IS NOT SHOWN.

N/F
SUNNEN PRODUCTS CO.
DB. 21908 PG. 3721
PARCEL 3

21J130976
7900 MANCHESTER RD

MSD #21J4-107C (UIP)
PRIVATE

5' UTILITY EASEMENT GRANTED TO THE CITY OF MAPLEWOOD DB. 21404, PG. 3677

N/F
SUNQUAD LLP

SUBJECT TO PERMANENT EASEMENT TO THE BI-STATE DEVELOPMENT AGENCY FOR THE PURPOSE OF THE CROSS COUNTY EXTENSION RECORDED IN DB. 14966, PG. 1313. SAID EASEMENT ENCOMPASSES ALL THAT PORTION OF PARCEL 20 WHICH ADJOINS MANCHESTER ROAD, SAID EASEMENT IS NOT SHOWN.

EASEMENTS GRANTED TO UNION ELECTRIC COMPANY ARE DESCRIBED IN VARIOUS DEEDS (8 TOTAL). DUE TO THE EXTENTS OF PARENT PARCEL THESE DESCRIPTIONS HAVE NOT BEEN DETERMINED (MANY ARE BLANKET IN NATURE) AND WOULD REQUIRE ADDITIONAL BOUNDARY TO DETERMINE BEGINNING / COMMENCEMENT POINTS.

TEMPORARY AND PERMANENT EASEMENT RIGHTS GRANTED TO CITIZENS FOR MODERN TRANSIT AS DESCRIBED IN DB. 9259, PG. 1629. ADDITIONAL EFFORTS TO DETERMINE EXTENTS OF EASEMENTS.

MSD #21J4-104C (UIP)

PCC STA 23+82.10

EXISTING 12" PIPE (UIP)

EXISTING 12" PIPE (UIP)

SUBJECT TO EASEMENTS WITHIN VACATED BARTOLD AVENUE; DB. 18045, PG. 1533

BARTOLD AVE.

N/F
BI STATE DEVELOPMENT
DB. 14465, PG. 2708
DB. 18045, PG. 1543
DB. 18045, PG. 1557

21J130958
7851 MANCHESTER ROAD

N/F
SUNQUAD L.P.
DB. 9416, PG. 814

REMOVE EXISTING GRATE INLET MSD #21J4-336C AND REPLACE WITH PCC TRAPPED 2 GRATE INLET WITH SIDE INTAKE
SI 124

MATCHLINE STA. 24+00.00

SCALE
0 20 40 60

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2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 5 OF 92

REV.

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DI 125 REPLACE EXISTING INLET
MSD #21J4-0420C
WITH PCC TRAPPED DOUBLE STREET INLET
MODOT MAINTAINED

APPROX. LOCATION OF 10' EASEMENT TO UNION ELECTRIC; DB. 1033, PG. 585

N/F
SUNCO II LLC
DB. 22026 PG. 299

21J130985
7910 MANCHESTER RD

SUBJECT TO RIGHTS OF DIRECT ACCESS AS DESCRIBED IN DB. 6301, PG. 1611
RELEASE OF THESE RIGHTS OF ACCESS AS DESCRIBED IN DB. 6723, PG. 1291

SUBJECT TO CONSTRUCTION AND MAINTENANCE EASEMENT FOR WALL
DB. 6646, PG. 893

EXISTING 42" VSB (UIP)
(SEGMENTED BLOCK)

25

MSD #21J4-372C (UIP)

EXISTING 12" PIPE (UIP)

MSD #21J4-250C (UIP)
(INTERCEPTOR)

EXISTING 42" VSB (UIP)
(SEGMENTED BLOCK)

MATCHLINE STA. 24+00.00

MATCHLINE STA. 29+00.00

EXISTING 12" PIPE (UIP)

MSD #21J4-0421C (UIP)

EXISTING 10" PIPE (UIP)

℄ ROUTE 100

TEMPORARY CONSTRUCTION EASEMENT AND LANDSCAPE EASEMENT
DB. 21404, PG. 1883
DB. 21404, PG. 1890

N/F
SUNQUAD L.P.
DB. 8639, PG. 1584
PARCEL 1

21J411046
2600 SOUTH HANLEY ROAD

N/F
MAPLEWOOD HILLTOP LLC
DB. 17766, PG. 3441
PARCEL 1

21J130930
7961 MANCHESTER ROAD

N/F
MAPLEWOOD HILLTOP LLC
DB. 17766, PG. 3441
PARCEL 2

21J130921
7963 MANCHESTER ROAD

N/F
MAPLEWOOD HILLTOP LLC
DB. 11539, PG. 2458

21J130628
7965 MANCHESTER ROAD

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 6 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\006_DP_06_J6S3210_20.dgn 5:47:28 PM 2/5/2020

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MSD #21J4-0410C (UIP)
EXISTING 42" PIPE (UIP)
MSD #21J4-0123D (UIP)
PRIVATE
MSD #21J4-0423C (UIP)

HANLEY RD.

N/F
SUNNEN PRODUCTS
DB. 6950 PG. 2432
PARCEL 1

120' WIDE STORM CHANNEL EASEMENT
DB. 6709, PG. 1285

21J130747
7912 MANCHESTER RD

SUBJECT TO A PERPETUAL DRAINAGE EASEMENT
DB. 6646, PG. 887

SUBJECT TO CONSTRUCTION AND MAINTENANCE EASEMENT FOR WALL
DB. 6646, PG. 893

SOUTHERLY RIGHT OF WAY OF MANCHESTER ROAD
APPEARS TO BE MONUMENTED AT 40' FROM CENTERLINE.
NO DOCUMENTS SUGGEST ADDITIONAL RIGHT OF WAY
FOR THIS PARCEL BASED ON THE TITLE COMMITMENT PROVIDED.

APPROXIMATE LOCATION OF 10' W
UNION ELECTRIC EASEMENT
DB. 11702, PG. 1092

120' WIDE STORM CHANNEL EASEMENT
DB. 6709, PG. 1285

MATCHLINE STA. 29+00.00

MATCHLINE STA. 34+00.00

PT STA 30+85.17

POT1 STA 30+99.00

℄ ROUTE 100

EQUATION:
Std 30+96.88 BK =
Std 30+99.00 AH

N/F
OUTDOOR SYSTEMS INC.
DB. 11087, PG. 1298

21J130581
7975 MANCHESTER ROAD

MSD EASEMENT
SHOWN ON DB. 8061, PG. 625

10' WIDE WATER PIPE EASEMENT
DB. 8061, PG. 625

24' WIDE CROSS ACCESS EASEMENT
DB. 9426, PG. 1799

N/F
TRUMAN BANK
DB. 17612, PG. 3345

21K341360
8071 MANCHESTER ROAD

24' WIDE CROSS ACCESS EASEMENT
DB. 9426, PG. 1799

SUBJECT TO THE RIGHT OF WAY OF UTILITY LINES
LOCATED WITHIN PART OF THE FORMER HANLEY ROAD; DB. 983, PG. 535

SUBJECT TO RIGHTS OF DIRECT ACCESS AND EASEMENT FOR
RIGHT OF WAY DESCRIBED IN PARCEL 12; DB. 6355, PG. 748

SUBJECT TO AN EASEMENT GRANTED TO UNION ELECTRIC COMPANY OF
MISSOURI; DB. 1620, PG. 521 AND DB. 1653, PG. 221

HANLEY RD.

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI
CIVIL DESIGN, INC.
www.cdi.com
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 7 OF 92

REV.

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N/F
GENE FREDERIC TRUST
DB. 16775 PG. 729

21K340774
8002 MANCHESTER RD

SUBJECT TO SEWER EASEMENTS RECORDED IN DB. 542, PG. 196 AND DB. 1903, PG. 602

SUBJECT TO EASEMENTS GRANTED TO UNION ELECTRIC COMPANY; DB. 6415, PG. 495

SUBJECT TO PERPETUAL DRAINAGE EASEMENT DB. 6639, PG. 920

SOUTHERLY RIGHT OF WAY OF MANCHESTER ROAD APPEARS TO BE MONUMENTED AT 40' FROM CENTERLINE. NO DOCUMENTS SUGGEST ADDITIONAL RIGHT OF WAY FOR THIS PARCEL BASED ON THE TITLE COMMITMENT PROVIDED.

N/F
WEIS INVESTMENT LLC
DB. 21956 PG. 1682

21K340792
8030 MANCHESTER RD

SUBJECT TO EASEMENTS GRANTED TO UNION ELECTRIC COMPANY; DB. 7133, PG. 72 AND DB. 6956,PG. 2108 (NEED TO PULL REFERENCED DEEDS TO DETERMINE EXACT LOCATIONS)

SOUTHERLY RIGHT OF WAY OF MANCHESTER ROAD APPEARS TO BE MONUMENTED AT 40' FROM CENTERLINE. NO DOCUMENTS SUGGEST ADDITIONAL RIGHT OF WAY FOR THIS PARCEL BASED ON THE TITLE COMMITMENT PROVIDED.

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N/F
SHAM AND
NEETA TEKWANI
DB. 9618 PG. 1605

21K340820
8040 MANCHESTER RD

SUBJECT TO EASEMENTS GRANTED TO UNION ELECTRIC COMPANY; DB. 7133, PG. 72 (NEED TO PULL REFERENCED DEED TO DETERMINE EXACT LOCATIONS)

SOUTHERLY RIGHT OF WAY OF MANCHESTER ROAD APPEARS TO BE MONUMENTED AT 40' FROM CENTERLINE. NO DOCUMENTS SUGGEST ADDITIONAL RIGHT OF WAY FOR THIS PARCEL BASED ON THE TITLE COMMITMENT PROVIDED.

25' INGRESS / EGRESS EASEMENT DB. 6701, PG. 1233

PROPOSED PCC DOUBLE STREET INLET DI 202

EXISTING 12" PIPE (UIP)

MH 202-1 REMOVE EXISTING INLET MSD #21K3-0250D AND REPLACE WITH PROPOSED PCC MANHOLE - 48"

PROPOSED 9'-15" GROUP B PIPE

℄ ROUTE 100

PC STA 34+09.06

MATCHLINE STA. 34+00.00

PCC STA 36+80.40

EQUATION 36+80 S+D = 36+96 B+AH

EXISTING 42" PIPE (UIP)

EXISTING 12" PIPE (UIP)

MSD #21K3-0242D (UIP)

MSD #21K3-0244D (ATG)

EXISTING PIPE (UIP)

APPROX LOCATION OF 10' MSD EASEMENT DB. 8024, PG. 1465

MSD #21K3-0239D (ATG)

EXISTING 12" PIPE (UIP)

MSD #21K3-0247D (UIP)

MSD #21K3-0248D (UIP)

EXISTING 12" PIPE (UIP)

24' WIDE CROSS ACCESS EASEMENT DB. 9426, PG. 1799

MSD #21K3-0240D (UIP)

MSD #21K3-0241D (UIP)

MSD #21K3-0238D (UIP)

EXISTING 12" PIPE (UIP)

MH 203-2 EXISTING MANHOLE MSD #21K3-0236D (UIP)

EXISTING 15" PIPE (UIP)

MSD #21K3-0237D (UIP)

N/F
SIMMONS FIRST NATIONAL BANK
DB. 20335, PG. 2510

21K341351
8075 MANCHESTER ROAD

BRAZEAUX PLAZA
PB. 354, PG. 105

10' WIDE WATER PIPE EASEMENT DB. 8061, PG. 625

EXISTING 42" PIPE (UIP)

N/F
BESTAR LLC
DB. 20509, PG. 1353

21K341382
8077 MANCHESTER ROAD

BRAZEAUX PLAZA PLAT TWO
PB. 354, PG. 383

MATCHLINE STA. 39+00.00

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI
CIVIL DESIGN, INC.
www / cdie
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 8 OF 92

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BRECKENRIDGE INDUST. CT.

STA. 39+00.00

PCC STA. 39+33.14

N/F
FELICE PROPERTIES LLC
DB. 19409 PG. 2389

21K340866
8100 MANCHESTER RD

SUBJECT TO SEWER EASEMENTS GRANTED THE CITY OF BRENTWOOD. COPIES OF EASMENT DOCUMENTS ARE POOR QUALITY, BUT APPEARS EASEMENTS ARE IN OLD RR ROW
DB. 3154, PG. 200-203

SUBJECT TO ELECTRICAL EASEMENTS GRANTED TO UNION ELECTRIC COMPANY
DB. 4039, PG. 199
DB. 5047, PG. 511

N/F
FELICE PROPERTIES LLC
DB. 19409 PG. 2397

21K340765
8106 MANCHESTER RD

SUBJECT TO SEWER EASEMENTS GRANTED THE CITY OF BRENTWOOD. COPIES OF EASMENT DOCUMENTS ARE POOR QUALITY, BUT APPEARS EASEMENTS ARE IN OLD RR ROW
DB. 3154, PG. 200-203

SUBJECT TO ELECTRICAL EASEMENTS GRANTED TO UNION ELECTRIC COMPANY
DB. 4039, PG. 199
DB. 5047, PG. 511

DB. 9XX, PG. 1142 ELEC. EASEMENT

PROPOSED PCC SINGLE STREET INLET — SI 203

PROPOSED PCC DOUBLE STREET INLET — DI 204

℄ ROUTE 100

PT STA. 42+72.29

2GI 207A — PROPOSED PCC 2 GRATE INLET WITH SIDE INTAKE

MH 207A-1 — REMOVE EXISTING INLET AND REPLACE WITH PROPOSED PCC MANHOLE – 48"

PROPOSED PCC MANHOLE – 48" — MH 207B-2

PROPOSED 195'-15" GROUP B PIPE

2GI 208A-1 — PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

PROPOSED 6'-18" GROUP B PIPE

PROPOSED 44'-24" GROUP B PIPE

2GI 208 — REPLACE EXISTING INLET WITH PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

PROPOSED 2'-24" PIPE

PROPOSED 91'-24" GROUP B PIPE

STA. 44+00.00

MATCHLINE STA. 39+00.00

PROPOSED 41'-18" GROUP B PIPE

PROPOSED 14'-18" GROUP B PIPE

MH 203-1 — EXISTING MANHOLE MSD #21K3-0235D (UIP)

REMOVE EXISTING 24" PIPE

EXISTING SINGLE INLET (TBR)

REMOVE EXISTING 21" PIPE

EXISTING SINGLE INLET MSD #21K3-0233D (TBR)

REMOVE EXISTING 24" PIPE

EXISTING SINGLE INLET MSD #21K3-0234D (TBR)

10' WIDE WATER PIPE EASEMENT
DB. 8061, PG. 625

PORTER AVE.

PROPOSED 40'-24" PIPE

2GI 208A-2 — PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

MELVIN AVE.

MATCHLINE STA. 44+00.00

N/F
BESTAR LLC
DB. 20509, PG. 1353

21K341382
8077 MANCHESTER ROAD

BRAZEAUX PLAZA PLAT TWO
PB. 354, PG. 383

N/F
COMMERCIAL TRANSMISSION COMPANY
DB. 7908, PG. 1925

21K341272
8109 MANCHESTER ROAD

PORTER AVENUE (40' W.)

N/F
COMMERCIAL TRANSMISSION COMPANY
DB. 7871, PG. 2204

21K340183
8111 MANCHESTER ROAD

SUBJECT TO SEWER EASEMENT (BLANKET)
DB. 297, PG. 382
(IDENTIFIED IN PARCEL 53 COMMITMENT)

N/F
COMMERCIAL TRANSMISSION COMPANY
DB. 7922, PG. 1908
PARCEL 2

21K340172
8115 MANCHESTER ROAD

N/F
COMMERCIAL TRANSMISSION COMPANY
DB. 7922, PG. 1908
PARCEL 1

21K340150
8121 MANCHESTER ROAD

N/F
B E JAM, LLC
DB. 19788, PG. 1147

21K341393
8131 MANCHESTER ROAD

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

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REV.	DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 9 OF 92

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BRENTWOOD
INDUSTRIAL PARK
PB. 113, PG. 62

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N/F
FELICE PROPERTIES LLC
DB. 19409 PG. 2397

21K340765
8106 MANCHESTER RD

SUBJECT TO SEWER EASEMENTS GRANTED THE CITY OF BRENTWOOD. COPIES OF EASMENT DOCUMENTS ARE POOR QUALITY, BUT APPEARS EASEMENTS ARE IN OLD RR ROW
DB. 3154, PG. 200-203

SUBJECT TO ELECTRICAL EASEMENTS GRANTED TO UNION ELECTRIC COMPANY
DB. 4039, PG. 199
DB. 5047, PG. 511

N/F
FELICE PROPERTIES LLC
DB. 19409 PG. 2405
PARCEL 1

21K331152
8154 MANCHESTER RD

N/F
FELICE PROPERTIES LLC
DB. 19409 PG. 2405
PARCEL 1

21K331152
8154 MANCHESTER RD

SUBJECT TO SEWER EASEMENTS GRANTED THE CITY OF BRENTWOOD. COPIES OF EASMENT DOCUMENTS ARE POOR QUALITY, BUT APPEARS EASEMENTS ARE IN OLD RR ROW
DB. 3154, PG. 200-203

SUBJECT TO ELECTRICAL EASEMENTS GRANTED TO UNION ELECTRIC COMPANY
DB. 4039, PG. 199
DB. 5047, PG. 511

N/F
FELICE PROPERTIES LLC
DB. 19409 PG. 2405
PARCEL 1

21K331152
8154 MANCHESTER RD

MERCANTILE DR.

PROPOSED PCC MANHOLE – 48" MH 207B-1
PROPOSED 18'-15" GROUP B PIPE
PROPOSED PCC SINGLE STREET INLET SI 207B
PROPOSED 195'-15" GROUP B PIPE
PROPOSED PCC SINGLE STREET INLET SI 207C

STA. 44+00.00
PI STA 44+19.21
STA. 49+00.00
℄ ROUTE 100

PROPOSED 91'-24" GROUP B PIPE
PROPOSED PCC MANHOLE – 48" MH 208B-1
PROPOSED PCC DOUBLE STREET INLET DI 208B
PROPOSED 77'-24" GROUP B PIPE
PROPOSED 227'-24" GROUP B PIPE
PROPOSED 47'-18" GROUP B PIPE
PROPOSED PCC DOUBLE STREET INLET DI 208C

MATCHLINE STA. 44+00.00
MATCHLINE STA. 49+00.00

MELVIN AVE.
LOUIS AVE.

PROPOSED 6'-24" GROUP B PIPE
PROPOSED PCC MANHOLE – 48" MH 208D-3
PROPOSED 6'-24" GROUP B PIPE
PROPOSED PCC MANHOLE – 48" MH 208D-2
PROPOSED 54'-18" GROUP B PIPE
PROPOSED PCC DOUBLE STREET INLET DI 208D
PROPOSED 13'-18" GROUP B PIPE
PROPOSED PCC MANHOLE – 48" MH 208D-1

N/F
T & C REAL ESTATE LLC
DB. 13204, PG. 2383

21K340141
8141 MANCHESTER ROAD

N/F
BONHOMME INVESTMENT
DB. 18888, PG. 222

21K340132
8135 MANCHESTER ROAD

N/F
LAND LOVERS LLC
(PER TITLE DOC., MISSING VESTING DEED)

21K340206
8143 MANCHESTER ROAD

N/F
LaPLANTE HOLDINGS, LLC
(PER TITLE DOC., MISSING VESTING DEED)

21K330162
8147 MANCHESTER ROAD

N/F
MACS CONVENIENCE STORES, LLC
DB. 17940, PG. 3065

21K330122
8199 MANCHESTER ROAD

N/F
RPM HOLDINGS LLC
DB. 22134, PG. 1886

21K330151
8209 MANCHESTER ROAD

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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PROJECT NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 10 OF 92

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N/F
BRENTCHESTER LLC
DB. 21128 PG. 172
PARCEL 1 & 2

21K331251
8212 MANCHESTER RD

SUBJECT TO 5' WIDE ELECTRICAL EASEMENTS GRANTED TO UNION ELECTRIC COMPANY DB. 4823, PG. 482

N/F
DENNIS SCHARF
DB. 11712 PG. 1071

21K330085
8224 MANCHESTER RD

N/F
SURCO PROPERTIES
DB. 21884 PG. 2944

21K331372
8300 MANCHESTER RD

BOMPART ESTATE SUBDIVISION
PB. 286, PG. 58

N/F
CITY OF BRENTWOOD
DB. 17907 PG. 55

21K331295
8318 MANCHESTER RD

APPROX LOCATION
5' ELEC EASEMENT
DB. 1844, PG. 48

30' W ACCESS EASEMENT
PB. 286, PG. 58

PROPOSED PCC MANHOLE - 48" MH 209D-3

BUILDING SETBACK
PB. 286, PG. 58

SIGN EASEMENT
PB. 286, PG. 58

50

MATCHLINE STA. 49+00.00

PC STA. 49+85.45

2GI 209E-2 PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

℄ ROUTE 100

2GI 209E-1 PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

PROPOSED 2'-18" GROUP B PIPE

PT STA. 52+21.83

EQUATION STA. 52+24.85 BK = STA. 52+24.74 AH

PROPOSED 247'-24" GROUP B PIPE

MATCHLINE STA. 54+50.00

PROPOSED 2'-15" GROUP B PIPE

PROPOSED 55'-18" GROUP B PIPE

SALEM RD.

PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE 2GI 209D-2

PROPOSED 2'-18" GROUP B PIPE

PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE 2GI 209D-1

N/F
RPM HOLDINGS LLC
DB. 22134, PG. 1886

21K330151
8209 MANCHESTER ROAD

N/F
MOIR B. STEVENS TRUST
DB. 18590, PG. 3259
PARCELS 1 & 2

21K331204
8225 MANCHESTER ROAD

N/F
8309 MANCHESTER LLC
DB. 18759, PG. 769

21K331460
8307 MANCHESTER ROAD

SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC AND TO ALL EASEMENTS THAT LIE WITHIN VACATED ALLEY
DB. 1458, PG. 373
DB. 2518, PG. 75

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 11 OF 92

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N/F
CITY OF BRENTWOOD
DB. 17907 PG. 55

21K331295
8318 MANCHESTER RD

N/F
CITY OF BRENTWOOD
DB. 17573 PG. 4396

21K220250
2740 BOMPART AVE

N/F
CITY OF BRENTWOOD
DB. 17573, PG. 4391

21K331284
8330 MANCHESTER RD

N/F
GWH LLC
DB. 16660 PG. 3000

21K331273
8410 MANCHESTER RD

N/F
K HALL STUDIO LLC
DB. 21514 PG. 225

21K240867
8416 MANCHESTER RD

N/F
SOVRAN
ACQUISITION LP
DB. 21020 PG. 973

21K240830
8524
MANCHESTER RD

5' W. EASEMENT GRANTED TO UNION ELECTRIC
DB. 7004, PG. 2319

MATCHLINE STA. 54+50.00

MATCHLINE STA. 59+00.00

PROPOSED PCC MANHOLE – 48" MH 209D-4

PROPOSED 7'-24" GROUP B PIPE

PROPOSED PCC MANHOLE – 72" MH 209C-1

PROPOSED 59'-24" GROUP B PIPE

PROPOSED 13'-15" GROUP B PIPE

PROPOSED 129'-30" GROUP B PIPE

PC STA. 56+0.03

℄ ROUTE 100

MSD #21K3-0205D (UIP)

EXISTING 48" PIPE (UIP)

PT STA. 58+77.72

EXISTING 12" PIPE (UIP)

EXISTING 30" PIPE (UIP)

CECELIA AVE.

HELEN AVE.

10' W. WATER EASEMENT GRANTED TO CITY OF BRENTWOOD
DB. 17730, PG. 4515
DB. 17738, PG. 2570

10' W. SEWER EASEMENT
DB. 1394, PG. 218

PROPOSED PCC DOUBLE STREET INLET DI 209A

PROPOSED 20'-15" GROUP B PIPE

PROPOSED 180'-30" GROUP B PIPE

10' W. EASEMENT GRANTED TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT
DB. 18895, PG. 299

EXISTING DOUBLE INLET MSD #21K3-0209D (UIP) DI 209

EXISTING 12" PIPE (UIP)

EXISTING MANHOLE MSD #21K3-0208D (UIP) MH 209C-3

EXISTING MANHOLE MSD #21K3-0206D (UIP) MH 209C-4

EXISTING DOUBLE INLET MSD #21K3-0210D (UIP) DI 211

EXISTING 12" PIPE (UIP)

EXISTING MANHOLE MSD #21K3-0211D (UIP) MH 211A-1

PROPOSED PCC DOUBLE STREET INLET DI 209C

PROPOSED PCC DOUBLE STREET INLET DI 209B

SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC AND TO ALL EASEMENTS THAT LIE WITHIN VACATED ALLEY
DB. 1458, PG. 373
DB. 2518, PG. 75

N/F
WILLIAM AND MARY KING
DB. 8101, PG. 1424

21K330241
8401 MANCHESTER ROAD

APPROX. LOCATION OF EASEMENT GRANTED TO UNION ELECTRIC
DB. 5574, PG. 44

PROPOSED PCC MANHOLE – 48" MH 209C-2

N/F
TESON LAND LLC
DB. 17114, PG. 2298
PARCEL 2

21K331415
8419 MANCHESTER ROAD

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

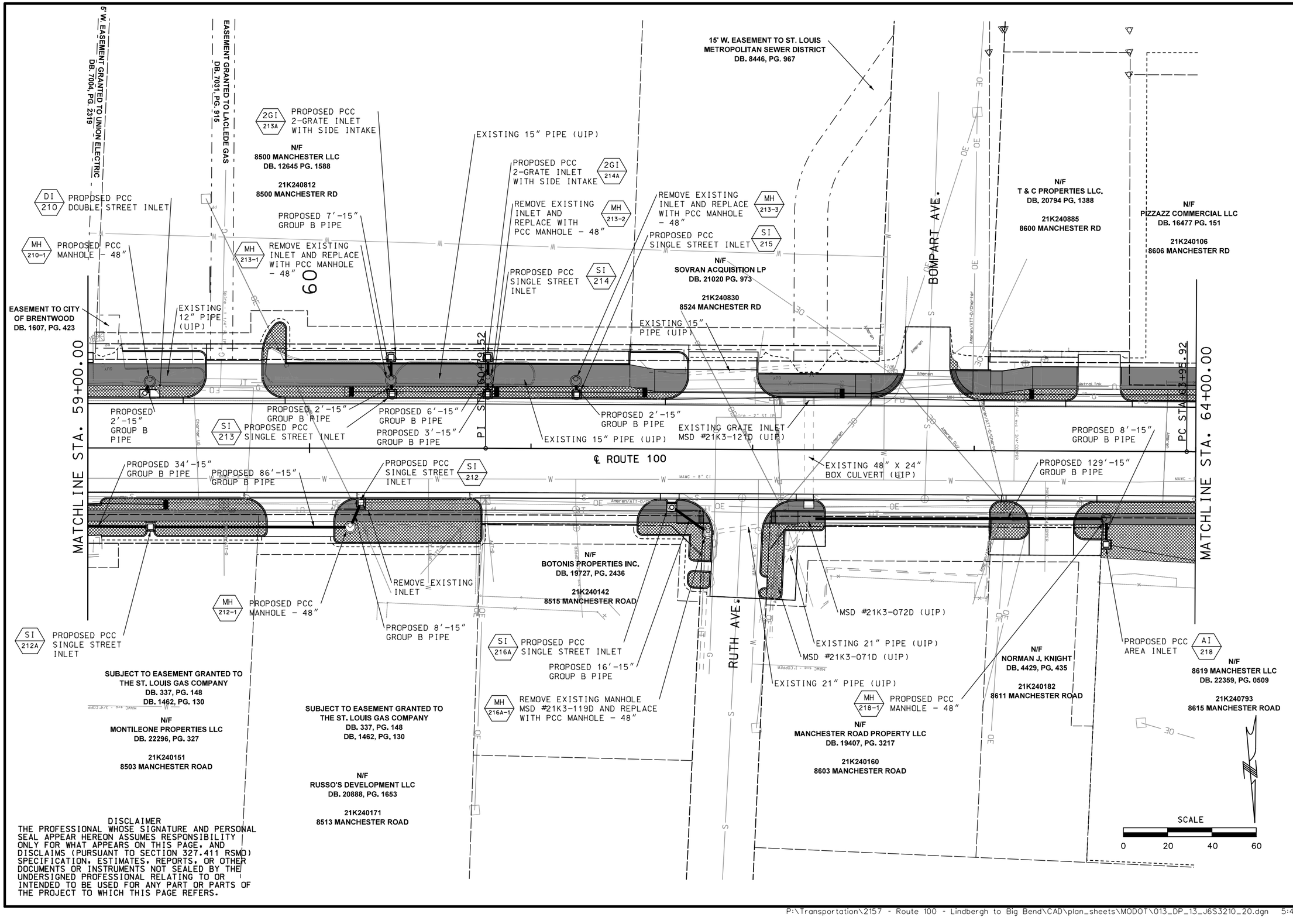
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC. Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 12 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\012_DP_12_J6S3210_20.dgn 5:47:31 PM 2/5/2020



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DATE PREPARED 2/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718/J6S1718B
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

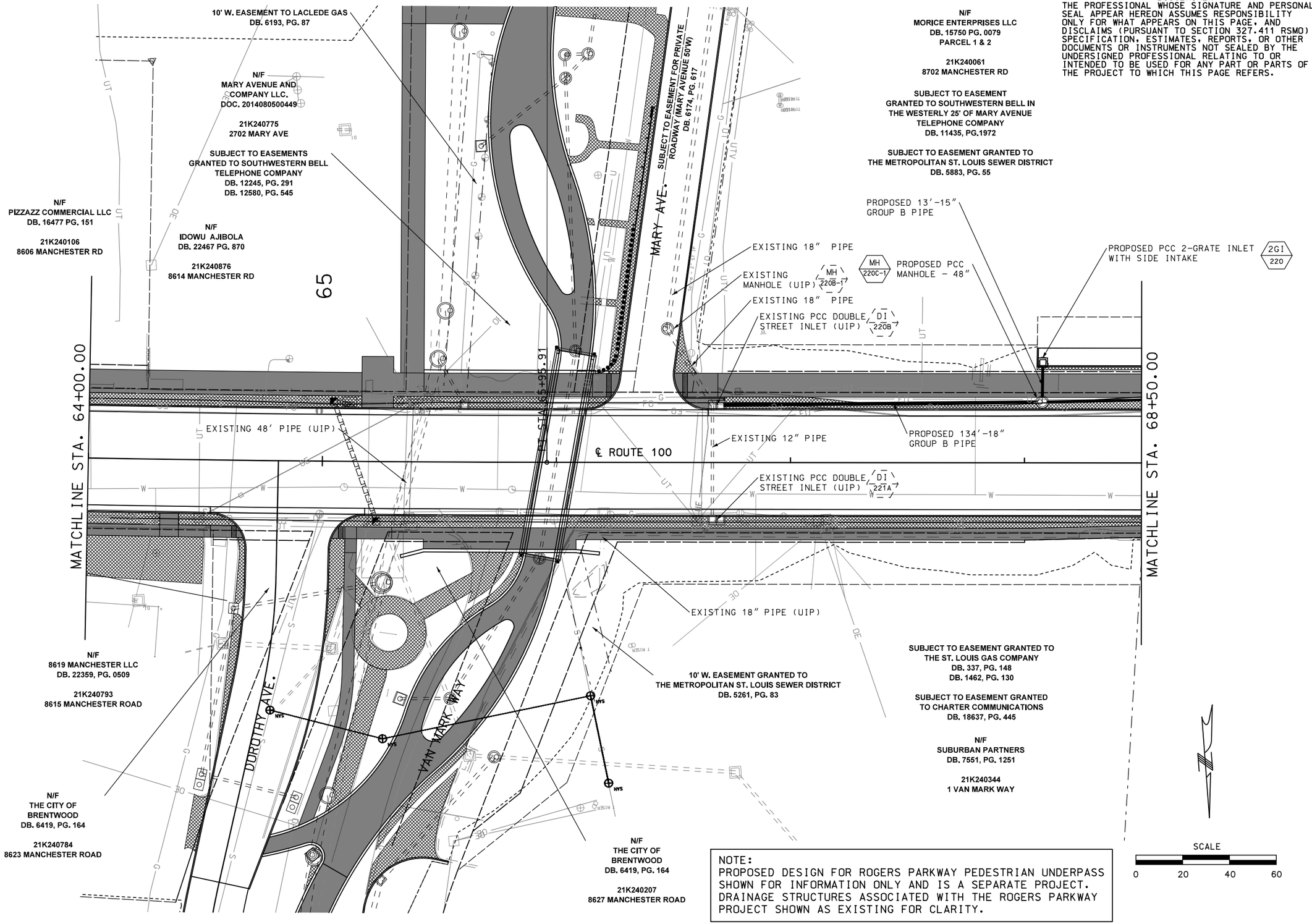
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 13 OF 92

REV.

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NOTE:
PROPOSED DESIGN FOR ROGERS PARKWAY PEDESTRIAN UNDERPASS SHOWN FOR INFORMATION ONLY AND IS A SEPARATE PROJECT. DRAINAGE STRUCTURES ASSOCIATED WITH THE ROGERS PARKWAY PROJECT SHOWN AS EXISTING FOR CLARITY.

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	23

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC. Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 14 OF 92

REV.

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BRENTWOOD COMMERCE
PB. 357, PG. 22
LOT 1

N/F
PFS PROPERTIES 2 LLC
DB. 21244 PG. 3287

21K240968
8720 MANCHESTER RD

SECOND EASEMENT GRANTED TO MISSOURI AMERICAN WATER
DB. 19133, PG. 2739

EASEMENT GRANTED TO MISSOURI AMERICAN WATER
DB. 19133, PG. 2739

EASEMENT GRANTED TO MISSOURI AMERICAN WATER
DB. 19133, PG. 2739

10' W. MSD EASEMENT
PB. 357, PG. 22

N/F
FOUNTAINS AT 270 LLC
DB. 19707 PG. 1131

21K231393
8730 MANCHESTER RD

PROPOSED PCC MANHOLE – 48" MH 221B-1

SI 220C PROPOSED PCC SINGLE STREET INLET

70

MATCHLINE STA. 68+50.00

PI STA 69+37.51

PROPOSED 173'-15" GROUP B PIPE

PROPOSED 138'-15" GROUP B PIPE

PC STA 71+32.86

PROPOSED 62'-15" GROUP B PIPE

PT STA 72+73.99

℄ ROUTE 100

MATCHLINE STA. 74+00.00

PROPOSED 44'-15" GROUP B PIPE

PROPOSED PCC SINGLE STREET INLET SI 221C

PROPOSED 226'-15" GROUP B PIPE

PROPOSED 7'-15" GROUP B PIPE

PROPOSED PCC MANHOLE – 48" MH 221D-1

10' W. EASEMENT GRANTED TO LACLEDE GAS
DB. 5261, PG. 83

10' W. EASEMENT GRANTED TO UNION ELECTRIC
DB. 6717, PG. 2043

20' W. SEWER EASEMENT
PB. 30, PG. 84

N/F
TRAN PROPERTIES LLC
DB. 18535, PG. 3214

21K240959
8711 MANCHESTER ROAD

DI 221B PROPOSED PCC DOUBLE STREET INLET

PHULOC CENTER
ADJUSTMENT PLAT
PB. 357, PG. 6

N/F
ST. LOUIS COUNTY CATHOLIC CHURCH
DB. 17765, PG. 4123

21K231151
8735 MANCHESTER ROAD

10' ROADWAY EASEMENT; PB. 14, PG. 89
VACATED IN DB. 2368, PG. 346

N/F
ST. LOUIS COUNTY CATHOLIC CHURCH
DB. 17765, PG. 4123

21K231173
2618 SOUTH BRENTWOOD BLVD

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 15 OF 92

N/F
ST. LOUIS SOCIETY FOR
THE BLIND
DB. 11431 PG. 2354

21K231351
8760 MANCHESTER RD

SUBJECT TO EASEMENT GRANTED
TO LAY AND MAINTAIN SEWER PIPES
DB. 512, PG. 372

N/F
MCW-RD BRENTWOOD
PLAZA LLC.
DB. 17647 PG. 3141

21K231214
8828 MANCHESTER RD

SUBJECT TO WATER SERVICE
LINE USE AGREEMENT WITH ST. LOUIS COUNTY WATER CO.
DB. 7946, PG. 2062

SUBJECT TO RELINQUISHMENT OF DIRECT ACCESS
TERMS/CONDITIONS RECORDED IN DB. 8041, PG. 436

10' W. ROADWAY MAINTENANCE
AND UTILITY EASEMENT
PB. 251, PG. 9

BRENTWOOD BLVD.

75

STA. 74+00.00

MATCHLINE STA. 74+00.00

P.I. STA 77+17.89

℄ ROUTE 100

STA. 79+00.00

MATCHLINE STA. 79+00.00

PROPOSED PCC
SINGLE STREET INLET
SI
221D

PROPOSED 226'-15"
GROUP B PIPE

N/F
ST. LOUIS COUNTY CATHOLIC CHURCH
DB. 17765, PG. 4123

21K231173
2618 SOUTH BRENTWOOD BLVD

5' STRIP DEDICATED FOR
ROADWAY PURPOSES
DB. 1648, PG.622

SPECIAL WARRANTY DEED
TO THE STATE HIGHWAY COMMISSION
DB. 6280, PG. 77

STRIP DEDICATED FOR
ROADWAY PURPOSES
DB. 7752, PG.1569

4' W. SIDEWALK EASEMENT
DB. 1416, PG. 156

TRAFFIC SIGNAL EASEMENT
DB. 12238, PG.34

N/F
SCHWARZ REVOCABLE LIVING TRUST
DB. 14153, PG. 405

21K231382
2625 SOUTH BRENTWOOD BLVD

SUBJECT TO EASEMENT GRANTED
TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT
DB. 15380, PG. 252

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 16 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\016_DP_16_J6S3210_20.dgn 5:47:33 PM 2/5/2020

N/F
MCW-RD BRENTWOOD
PLAZA LLC.
DB. 17647 PG. 3141

21K231214
8828 MANCHESTER RD

SUBJECT TO WATER SERVICE
LINE USE AGREEMENT WITH ST. LOUIS COUNTY WATER CO.
DB. 7946, PG. 2062

SUBJECT TO RELINQUISHMENT OF DIRECT ACCESS
TERMS/CONDITIONS RECORDED IN DB. 8041, PG. 436

EXISTING 48" PIPE (UIP)

MH 227-1 EXISTING MANHOLE (UIP)

EXISTING 12" PIPE (UIP)

SI 227 PROPOSED PCC SINGLE STREET INLET

EXISTING 48" PIPE (UIP)

EXISTING 18" PIPE (UIP)

MSD #21K4-108D (UIP)

MSD #21K4-107D (UIP)

EXISTING 27" PIPE (UIP)

REPLACE EXISTING INLET TOP WITH MANHOLE MH 228-1

PROPOSED 4'-15" GROUP B PIPE

PROPOSED PCC SINGLE STREET INLET SI 228

N/F
ASTI PROPERTIES
DB. 14146 PG. 291

21K141270
8900 MANCHESTER RD

SUBJECT TO 5'W. EASEMENT
GRANTED TO UNION ELECTRIC
DB. 3762, PG. 401
DB. 4360, PG. 44

COLLIER AVE.

MSD #21K4-106D (UIP)

EASEMENT GRANTED TO
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB. 9806, PG. 1374

EXISTING INLET (UIP)

EXISTING 12" PIPE (UIP)

EXISTING 36" PIPE (UIP)

MSD #21K4-109D (UIP)

EXISTING 12" PIPE (UIP)

MH 230-3 PROPOSED PCC MANHOLE - 48"

EXISTING 24" PIPE (UIP)

EXISTING 48" PIPE (UIP)

℄ ROUTE 100

PC STA 82+29.18

EXISTING 24" PIPE

MATCHLINE STA. 79+00.00

MATCHLINE STA. 84+00.00

PROPOSED 2'-15" GROUP B PIPE

PROPOSED 51'-15" GROUP B PIPE

PROPOSED 16'-24" GROUP B PIPE

PROPOSED 2'-24" GROUP B PIPE

EXISTING 18" PIPE (TBR)

EXISTING 30" PIPE (UIP)

PROPOSED 199'-15" GROUP B PIPE

PROPOSED 66'-15" GROUP B PIPE

2GI 230A-2 PROPOSED PCC 2 GRATE INLET WITH SIDE INTAKE

2GI 230A-1 PROPOSED PCC 2 GRATE INLET WITH SIDE INTAKE

2GI 230-1 PROPOSED PCC 2 GRATE INLET WITH SIDE INTAKE

2GI 230-2 PROPOSED PCC 2 GRATE INLET WITH SIDE INTAKE

ANNALEE AVE.

PROPOSED PCC MANHOLE - 48" MH 230C-4

PROPOSED 14'-18" GROUP B PIPE

EXISTING MANHOLE MSD #21K4-110D (UIP) MH 230A-4

EXISTING 36" PIPE (UIP)

EXISTING MANHOLE MSD #21K4-112D (UIP) MH 230A-3

SUBJECT TO EASEMENT GRANTED
FOR BUILDING BEING OVER PARCEL LINE
DB. 958, PG. 639

N/F
8821 MANCHESTER LLC
DB. 21412, PG. 2049

21K230994
8821 MANCHESTER ROAD

N/F
ROBINSON HEARING AID INC.
DB. 10819, PG. 2209

21K231104
8829 MANCHESTER ROAD

N/F
NOBLE CAPITAL LLC
DB. 21322, PG. 1447
PARCELS 1 & 2

21K230370
21K230343
8837-8839 MANCHESTER ROAD

SUBJECT TO SEWER EASEMENT
AFFECTING LOT 5
DB. 735, PG. 260
DB. 1188, PG. 518

N/F
615 DEVELOPMENT LLC
DB. 16547, PG. 1614

21K230352
8843 MANCHESTER ROAD

SUBJECT TO SEWER EASEMENT
AFFECTING LOT 5
DB. 735, PG. 260
DB. 1188, PG. 518

N/F
TERRENCE O'BRIEN
DB. 19595, PG. 2090
PARCELS 1 & 2

21K140538
8901 MANCHESTER ROAD

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	26

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC. Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 17 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\017_DP_17_J6S3210_20.dgn 5:47:34 PM 2/5/2020

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N/F
ASTI PROPERTIES
DB. 14146 PG. 291

21K141270
8900 MANCHESTER RD

SUBJECT TO 5'W. EASEMENT
GRANTED TO UNION ELECTRIC
DB. 3762, PG. 401
DB. 4360, PG. 44

N/F
H.M.BOEGEMAN REALTY CO. (2/8 INTEREST)
CREST DEVELOPMENT CO. (3/8 INTEREST)
WAYCLIFFE DEVELOPMENT CORP. (3/8 INTEREST)
DB. 7989 PG. 490

21K140400
8918 MANCHESTER RD

N/F
J K P HOLDINGS LLC
DB. 12026 PG. 177

21K140455
9012 MANCHESTER RD

30' BUILDING SETBACK (NOT SHOWN)
PB. 34, PG. 37

10" W SEWER AND UTILITY EASEMENT
PB. 34, PG. 37

120

STA. 84+00.00

MATCHLINE STA. 84+00.00

PCC STA 110+09.65

PT STA 110+09.65

EQUATION STA 110+09.65 AH = STA 109+17.55 BK

℄ ROUTE 100

MATCHLINE STA. 122+50.00

PROPOSED 199'-15" GROUP B PIPE

PROPOSED 7'-15" GROUP B PIPE

PROPOSED 115'-15" GROUP B PIPE

PROPOSED 172'-15" GROUP B PIPE

PROPOSED 7'-15" GROUP B PIPE

MH 230C-3 PROPOSED PCC MANHOLE - 48"

D1 230B PROPOSED PCC DOUBLE STREET INLET

PROPOSED PCC MANHOLE - 48" MH 230C-2

MH 230C-1 PROPOSED PCC MANHOLE - 48"

D1 230C PROPOSED PCC DOUBLE STREET INLET

N/F
TERRENCE O'BRIEN
DB. 19595, PG. 2090
PARCELS 1 & 2

21K140538
8901 MANCHESTER ROAD

N/F
TERRENCE O'BRIEN
PARCEL 3

21K140547
8935 MANCHESTER ROAD

SUBJECT TO ACCESS EASEMENT WITH PARCEL 108.
DB. 12506, PG. 447

N/F
BMA PROPERTY LLC
DB. 21856, PG. 3482

21K140565
8943 MANCHESTER ROAD

SUBJECT TO ACCESS EASEMENT WITH PARCEL 107.
DB. 12506, PG. 447

N/F
MARJORIE E. HENSLEY TRUST
DB. 17418, PG. 2251

21K140556
8949 MANCHESTER ROAD

SUBJECT TO EASEMENT FOR BUILDING ENCROACHMENT ALONG WESTERN LINE
DB. 11805, PG. 946

SUBJECT TO RECIPROCAL EASEMENT FOR JOINT USE AND MAINTENANCE
DB. 8360, PG. 392
DB. 9897, PG. 467

N/F
SRT ENTERPRISES INC.
DB. 11805, PG. 951

21K141353
9001 MANCHESTER ROAD

SCALE
0 20 40 60

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

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REV.	DESCRIPTION	DATE

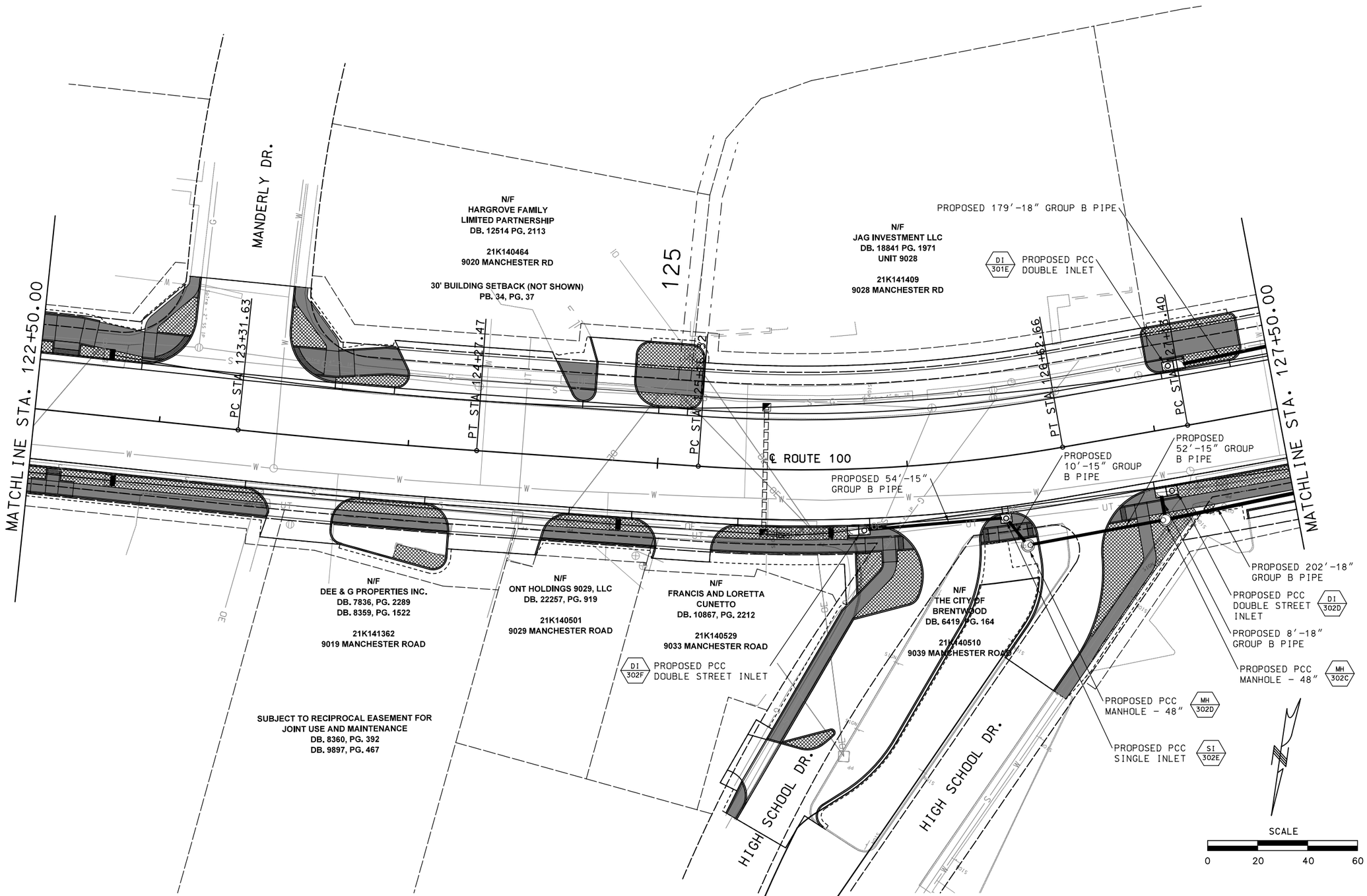
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC. www.cdi.com
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 18 OF 92

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100	MO
DISTRICT	SHEET NO.
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COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
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DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 19 OF 92

REV.

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\019_DP_19_J6S3210_20.dgn 5:47:35 PM 2/5/2020

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MATCHLINE STA. 127+50.00

N/F
ASHICCA AUTO SERVICE
DB. 15838 PG. 2404

21K141234
9100 MANCHESTER RD

APPROX. LOCATION OF 10'W SEWER EASEMENT GRANTED TO THE CITY OF BRENTWOOD DB. 1391, PG. 398

INGRESS/EGRESS EASEMENT AND ENCROACHMENT AGREEMENT
DB. 12506, PG. 485
DB. 18972, PG. 2022

PROPOSED 179'-18" GROUP B PIPE

PROPOSED 202'-18" GROUP B PIPE

N/F
THE ROCK CHURCH OF ST. LOUIS

21K141391
9125 MANCHESTER ROAD

MH 302B-2 PROPOSED PCC MANHOLE

PROPOSED 129'-18" GROUP B PIPE

PT STA. 128+84.23

℄ ROUTE 100

N/F
GENERAL EQUITIES CORP.
DB. 16857 PG. 2653

21K141243
9110 MANCHESTER RD

130

PROPOSED PCC DOUBLE INLET DI 301D

PROPOSED 198'-18" GROUP B PIPE

ROADWAY EASEMENT GRANTED TO THE CITY OF BRENTWOOD
DB. 3116, PG. 471

DI 302B PROPOSED PCC DOUBLE STREET INLET

PROPOSED 7'-21" GROUP B PIPE

MH 302B-1 PROPOSED PCC MANHOLE - 48"

PROPOSED
129'-18" GROUP B PIPE

PROPOSED 28'-18" GROUP B PIPE

DI 301C PROPOSED PCC DOUBLE INLET

PI STA. 130+67.98

BREMERTON RD.

N/F
CWW INVESTORS LP
DB. 14821 PG. 229

21K130185, 21K130193
9200 MANCHESTER RD

SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC COMPANY OF MISSOURI
DB. 2790, PG. 155
DB. 3122, PG. 634

PROPOSED PCC MANHOLE - 48" MH 301C

PROPOSED 138'-18" PIPE

EXISTING 15" PIPE (UIP)

PROPOSED PCC MANHOLE - 48" MH 303A

PROPOSED 5'-24" GROUP B PIPE

PROPOSED PCC 2-GRATE INLET 2GI 303A

N/F
S.I.S. LLC
DB. 19815, PG. 1089

21K130308
9207 MANCHESTER ROAD

REPLACE EXISTING GRATE INLET WITH PROPOSED PCC 2-GRATE SIDE INTAKE INLET 2GI 302

PROPOSED 29'-18" PIPE

PROPOSED PCC DOUBLE INLET DI 302A

PROPOSED 68'-18" GROUP B PIPE

N/F
F&B HOLDINGS LLC
DB. 19966, PG. 1641

21K130326
9201 MANCHESTER ROAD

SUBJECT TO EASEMENT FOR INGRESS/EGRESS AND MAINTENANCE/REPAIR (PARCEL 127)
DB. 13336, PG. 2438

BREMERTON RD.

MATCHLINE STA. 132+50.00

SCALE
0 20 40 60

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718B

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 20 OF 92

REV.

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MATCHLINE STA. 132+50.00

MATCHLINE STA. 138+00.00

N/F
CWW INVESTORS LP
DB. 14821 PG. 229

21K130185, 21K130193
9200 MANCHESTER RD

SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC COMPANY OF MISSOURI
DB. 2790, PG. 155
DB. 3122, PG. 634

8' EASEMENT GRANTED FOR DRIVEWAY PURPOSES
DB. 2642, PG. 25

N/F
DALE AND JUDITH THRASHER
DB. 18432 PG. 1980

21K130160
9222 MANCHESTER RD

PROPOSED PCC DOUBLE STREET INLET
DI 301B

10' EASEMENT GRANTED TO LACLEDE GAS COMPANY
DB. 2934, PG. 39

N/F
MICHAEL AND JEAN EATHERTON
DB. 17710 PG. 1715

21K131150
9230 MANCHESTER RD

DI 301A PROPOSED PCC DOUBLE STREET INLET

135

25' INGRESS/EGRESS EASEMENT
DB. 6688, PG. 148
28' INGRESS/EGREE EASEMENT
DB. 7875, PG. 525 & DB. 8105, PG. 2054

N/F
W. SCHILLER & CO.
DB. 15988 PG. 1526
PARCEL 1

21K131381
9238 MANCHESTER RD

N/F
W. SCHILLER & CO.
DB. 11915, PG. 661
PARCEL 3

21K131417
9244 MANCHESTER RD

10' EASEMENT GRANTED TO UNION ELECTRIC COMPANY
DB. 2177, PG. 282

SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC COMPANY OF MISSOURI
DB. 2790, PG. 155
DB. 2475, PG. 345

SI 306 EXISTING INLET MSD #21K4-135D (UIP)

SI 301 EXISTING INLET MSD #21K4-136D (UIP)

EXISTING 18" PIPE (UIP)

DI 308A EXISTING INLET MSD #21K4-134D (UIP)

PROPOSED 255'-18" PIPE

PROPOSED 109'-18" GROUP B PIPE

℄ ROUTE 100

EXISTING 18" PIPE

EXISTING 18" PIPE

EXISTING 18" PIPE (UIP)

EXISTING 15" PIPE (UIP)

EXISTING 18" PIPE

PROPOSED 83' 24" GROUP B PIPE

MH 303 PROPOSED PCC MANHOLE - 48"

PROPOSED 13'-24" GROUP B PIPE

PROPOSED 128'-24" GROUP B PIPE

DI 303 REPLACE EXISTING INLET WITH PCC DOUBLE STREET INLET

SI 304 EXISTING INLET (UIP)

N/F
JJA PROPERTIES LLC
DB. 11948, PG. 467

21K131435
9215 MANCHESTER ROAD

22' W. ACCESS EASEMENT
DB. 11606, PG. 2078

DI 305A PROPOSED PCC DOUBLE STREET INLET

N/F
LINGO PROPERTIES
DB. 18736, PG. 1773

21K130234
9227 MANCHESTER ROAD

PROPOSED 136' 24" GROUP B PIPE

REMOVE EXISTING INLET

DI 305 REPLACE EXISTING INLET WITH PCC DOUBLE STREET INLET

N/F
RUSSO DEVELOPMENT PROPERTIES
DB. 19237, PG. 1639

21K131224
9239 MANCHESTER ROAD

SUBJECT TO MAINTENANCE AGREEMENT WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT
DB. 8120, PG. 2234

N/F
TRAINWRECK LLC
DB. 16352, PG. 2685
PARCEL 2

21K130207
9243 MANCHESTER ROAD

DI 309B EXISTING INLET MSD #21K4-140D (UIP)

SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC
DB. 8226, PG. 1607

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

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REV.	DESCRIPTION	DATE

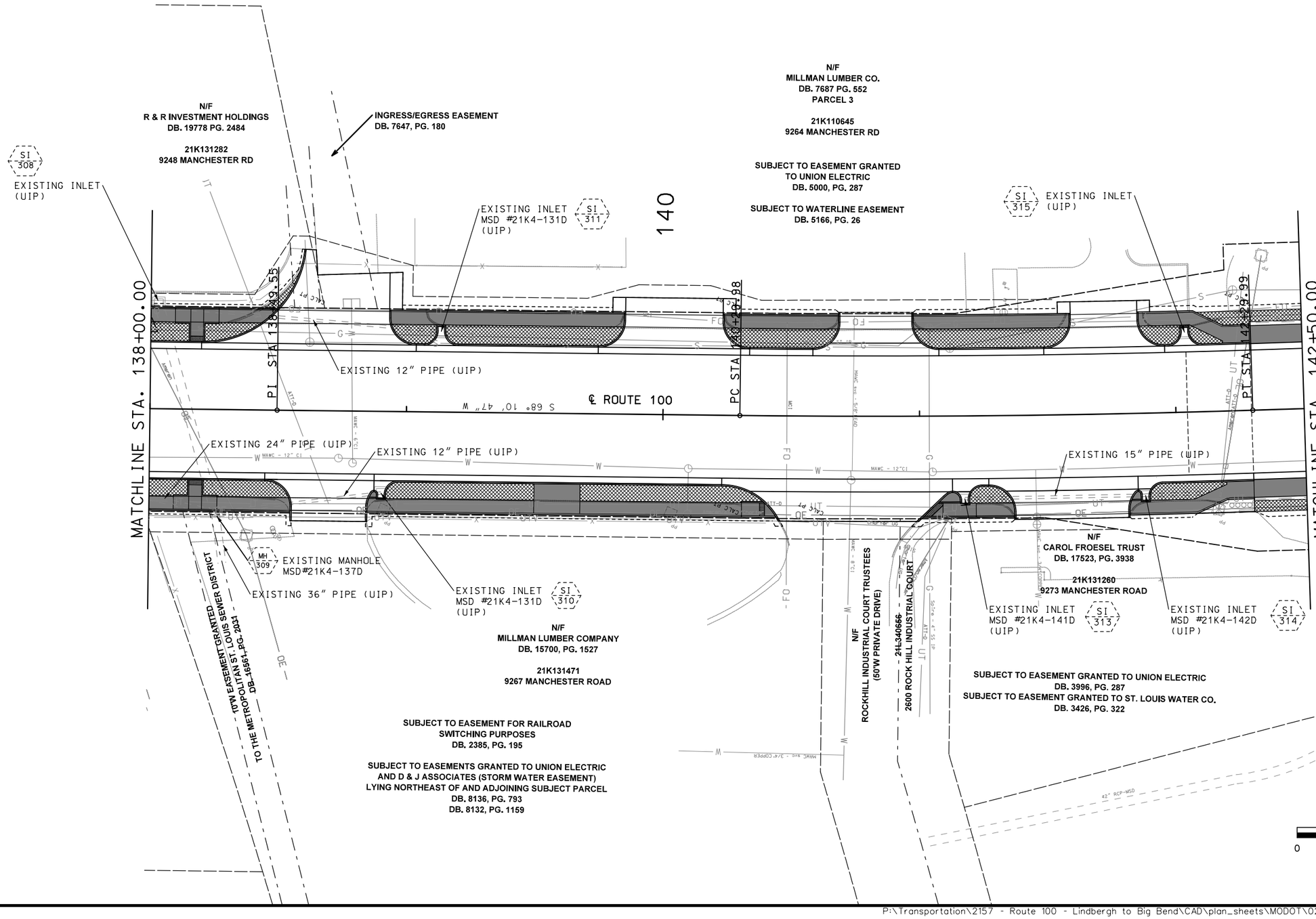
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 21 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\021_DP_21_J6S3210_20.dgn 5:47:36 PM 2/5/2020

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

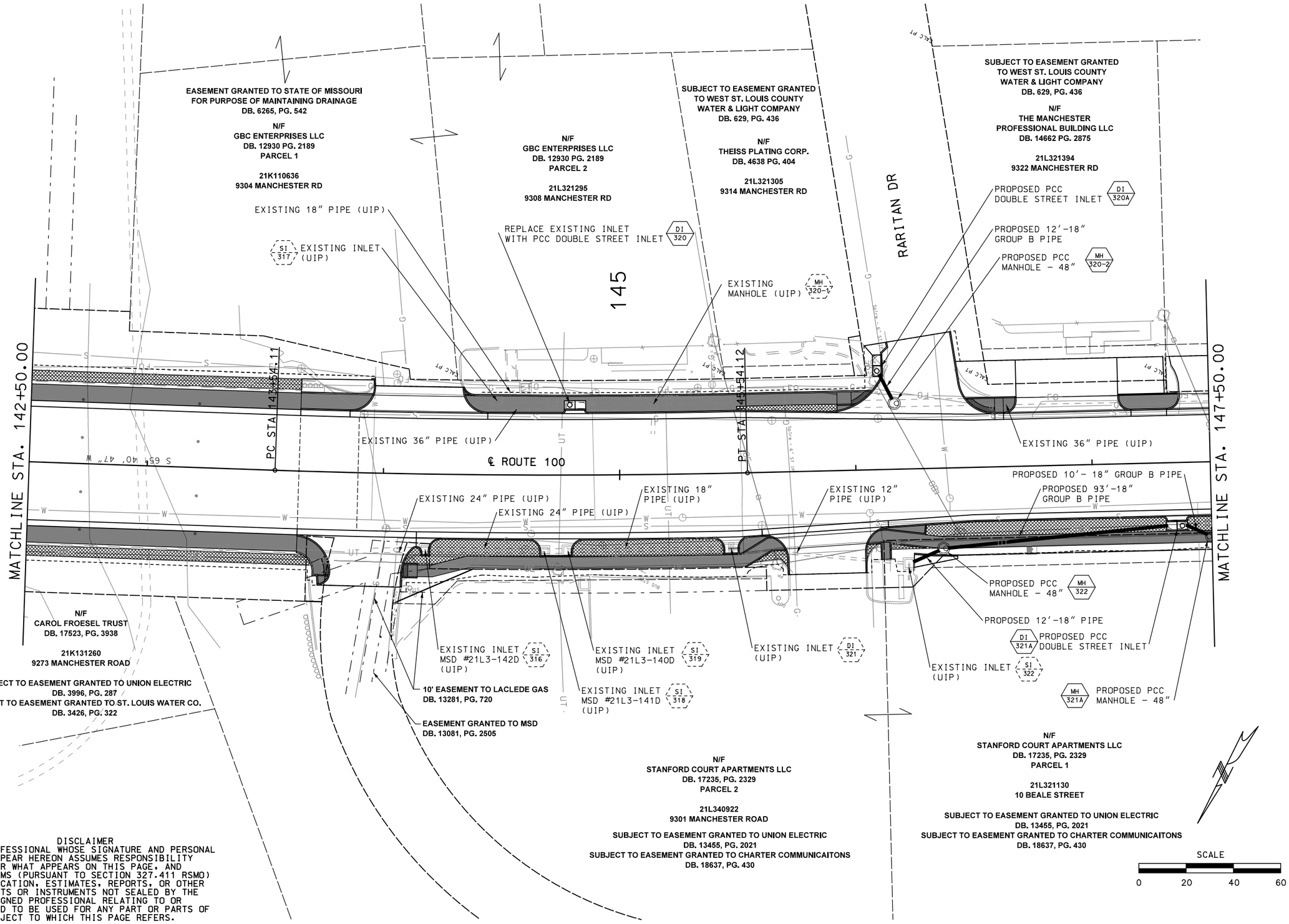
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 22 OF 92



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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

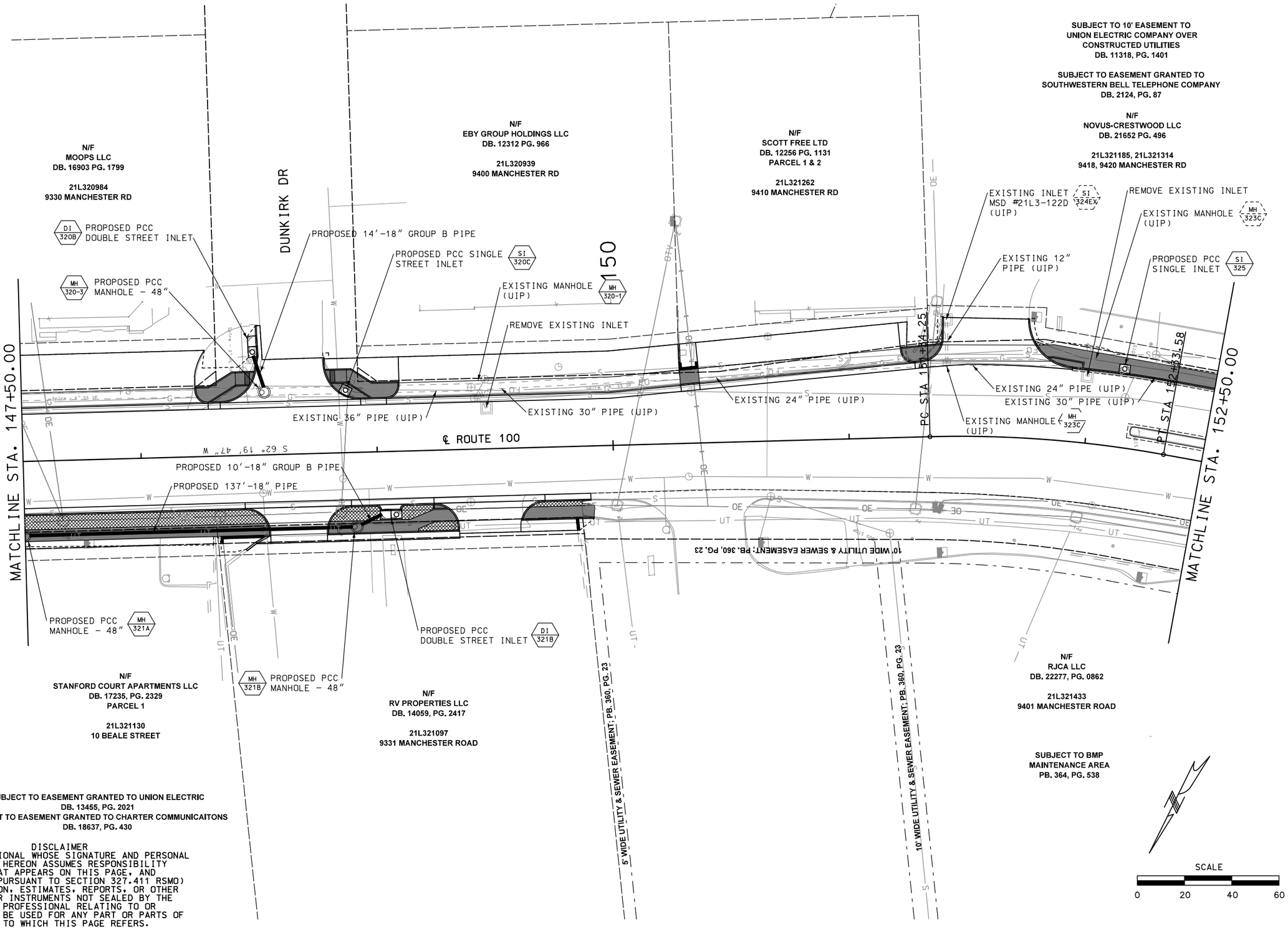
DATE	DESCRIPTION	REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 23 OF 92



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DATE PREPARED: 2/5/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.: —
PROJECT NO.: —
BRIDGE NO.: —

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

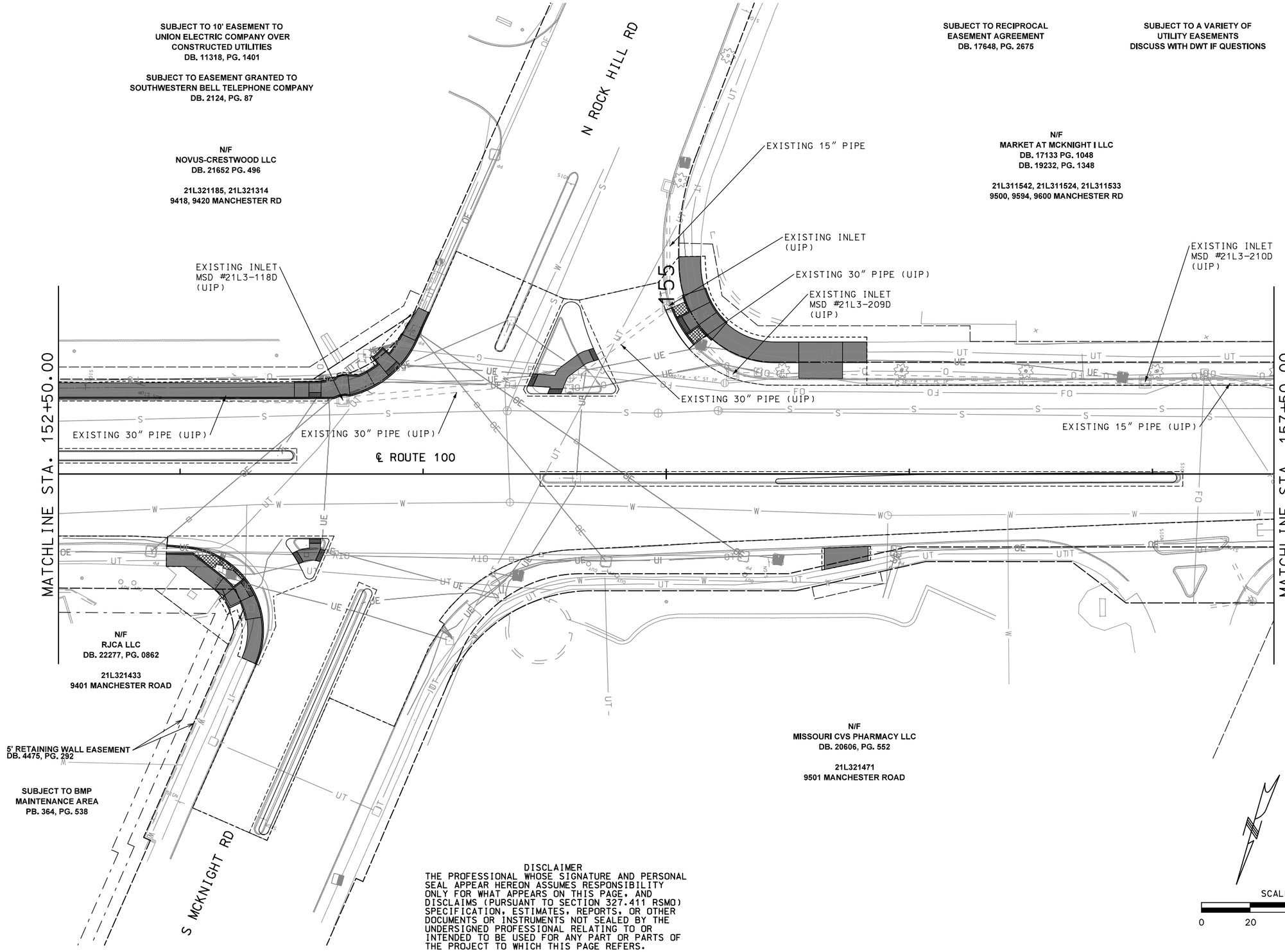
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 24 OF 92

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Missouri State Certificate of Authority #2002006604

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 25 OF 92

REV.

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SUBJECT TO A VARIETY OF
UTILITY EASEMENTS
DISCUSS WITH DWT IF QUESTIONS

SUBJECT TO RECIPROCAL
EASEMENT AGREEMENT
DB. 17648, PG. 2675

N/F
MARKET AT MCKNIGHT I LLC
DB. 17133 PG. 1048
DB. 19232, PG. 1348

21L311542, 21L311524, 21L311533
9500, 9594, 9600 MANCHESTER RD

EXISTING INLET
MSD #21L3-211D
(UIP)

EXISTING INLET
MSD #21L3-212D
(UIP)

EXISTING INLET
MSD #21L3-213D
(UIP)

EXISTING INLET
MSD #21L3-214D
(UIP)

EXISTING 15" PIPE (UIP)

EXISTING 15" PIPE (UIP)

EXISTING 12" PIPE (UIP)

℄ ROUTE 100

S 74° 12' 04" W

MATCHLINE STA. 157+50.00

MATCHLINE STA. 163+00.00

N ROCKHILL RD

N/F
JAMES C. PARROTT TRUST
DB. 20946, PG. 3621

21L310525
9523 MANCHESTER ROAD
21L311560
9517 MANCHESTER ROAD

N/F
B AND W TILE CO, INC.
DB. 22762, PG. 779

21L311111
9601 MANCHESTER ROAD

N/F
MBR ROCKHILL LLC
DB. 19880, PG. 3342

21L310460
9605 MANCHESTER ROAD

N/F
DANIEL S. AND TABITHA L. CALVERT
DB. 21520, PG. 1268

21L310442
9607 MANCHESTER ROAD

SCALE
0 20 40 60

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2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 26 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\026_DP_26_J6S3210_20.dgn 5:47:38 PM 2/5/2020

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N/F
MARKET AT MCKNIGHT I LLC
DB. 19232 PG. 1348

21L311551
9604 MANCHESTER RD

SUBJECT TO RECIPROCAL EASEMENT AGREEMENT
DB. 17648, PG. 2675

N/F
REFRIGERATION SUPPLIES INC.
DB. 13888 PG. 2125

21L311506 & 21L311494
9700 & 9710 MANCHESTER RD

EXISTING INLET
MSD #21L3-215D
(UIP)

EXISTING INLET
MSD #21L3-216D
(UIP)

EXISTING INLET
MSD #21L3-217D
(UIP)

165

STA. 163+00.00

STA. 167+50.00

MATCHLINE STA. 163+00.00

MATCHLINE STA. 167+50.00

EXISTING 12" PIPE (UIP)

EXISTING 12" PIPE (UIP)

EXISTING 12" PIPE (UIP)

℄ ROUTE 100

N/F
LC REAL ESTATE LLC
DB. 21664, PG. 1701

21L311616
9621 MANCHESTER ROAD

SUBJECT TO AN EASEMENT GRANTED TO UNION ELECTRIC, CENTERED ON INSTALLED UTILITIES
DB. 21931, PG. 1072

N/F
EXTRA SPECIAL PROPERTIES, LLC
DB. 22670, PG. 3627

21L311153
9631 MANCHESTER ROAD

SUBJECT TO AN EASEMENT GRANTED FOR ROOF OVERHANG
DB. 6887, PG. 766

2.19' EASEMENT FOR GRADING, COMPACTING, LANDSCAPING, CURBING AND PARKING
DB. 6892, PG. 1833

N/F
GARY ROSENBAUM
DB. 13177, PG. 1758

21L311142
9635 MANCHESTER ROAD

SUBJECT TO AN EASEMENT GRANTED FOR ROOF OVERHANG
DB. 6887, PG. 766

EASEMENT FOR DRIVEWAY AND PASSAGEWAY PURPOSES
DB. 3509, PG. 61

N/F
GEORGE E. AND JUDITH L. MEYER
DB. 6777, PG. 1739

21L310372
9641 MANCHESTER ROAD

SUBJECT TO SEWER EASEMENT
DB. 1571, PG. 56

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO.

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 27 OF 92

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\027_DP_27_J6S3210_20.dgn 5:47:39 PM 2/5/2020

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SUBJECT TO RECIPROCAL
EASEMENT AGREEMENT
DB. 17648, PG. 2675

N/F
REFRIGERATION SUPPLIES INC.
DB. 13888 PG. 2125

21L311506 & 21L311494
9700 & 9710 MANCHESTER RD

N/F
FELICE PROPERTIES
DB. 19409 PG. 2409
PARCEL 2

21L220073
9720 MANCHESTER RD

MATCHLINE STA. 167+50.00

MATCHLINE STA. 172+50.00

℄ ROUTE 100

PC STA 171+33.41

EXISTING 24" PIPE (UIP)

EXISTING INLET (UIP) EX SI 342

PROPOSED PCC SINGLE STREET INLET SI 342

PROPOSED PCC MANHOLE - 48" MH 342

PROPOSED PCC DOUBLE STREET INLET DI 342A

PROPOSED 47'-18" GROUP B PIPE

PROPOSED 7'-18" GROUP B PIPE

EXISTING PIPE (UIP)

PROPOSED 6'-24" GROUP B PIPE

PROPOSED 144'- 24" GROUP B PIPE

PROPOSED 56'- 18" GROUP B PIPE

PROPOSED PCC MANHOLE - 48" MH 343A

PROPOSED PCC SINGLE STREET INLET SI 343A

REMOVE EXISTING INLET

DI 343C PROPOSED PCC DOUBLE STREET INLET

DI 343 PROPOSED PCC DOUBLE STREET INLET

BMP RESERVE AREA
PB. 362, PG. 211

EASEMENT FOR DRIVEWAY AND PASSAGEWAY PURPOSES
DB. 3509, PG. 61

N/F
GEORGE E. AND
JUDITH L. MEYER
DB. 6777, PG. 1739

21L310372
9641 MANCHESTER ROAD

SUBJECT TO SEWER EASEMENT
DB. 1571, PG. 56

N/F
JOHN E. AND NANCY ST. EVE
DB. 10072, PG. 425

21L310332
9643 MANCHESTER ROAD

N/F
GRACE INVESTMENT PROPERTIES LLC
DB. 19324, PG. 894

21L220343
9701 MANCHESTER ROAD

N/F
EZ STORAGE ROCK HILL LLC
DB. 20742, PG. 358

21L221223
9715 MANCHESTER ROAD

N/F
9910 LLC
DB. 19375, PG. 691

21L220183
21L220172
9721 MANCHESTER ROAD

MCKINLEY AVE

LEONARD AVE

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 28 OF 92

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SUBJECT TO EASEMENTS GRANTED TO
UNION ELECTRIC (996/636), LACLEDE GAS (3319/636)
AND ST. LOUIS WATER COMPANY (4815/490 & 4815/501)
EASEMENTS REFERENCE OLD WARRENTY DEEDS, ADDITIONAL
RESEARCH IS NEEDED TO DETERMINE LOCATION

N/F
FELICE PROPERTIES
DB. 19409 PG. 2409
PARCEL 2

21L220073
9720 MANCHESTER RD

N/F
FELICE PROPERTIES
DB. 19409 PG. 2409
PARCEL 1

21L220073
9720 MANCHESTER RD

N/F
ROGER F. UGALDE SR.
DB. 8647 PG. 1019
PARCEL 1

21L220040
9730 MANCHESTER RD

SUBJECT TO EASEMENT GRANTED TO
UNION ELECTRIC (996/636)

N/F
MANNION GROUP 1 LLC
DB. 14169 PG. 1170

21L220031
9738 MANCHESTER RD

5' PERMANENT ROADWAY
EASEMENT
DB. 20629, PG. 1222

SUBJECT TO EASEMENT GRANTED TO
UNION ELECTRIC (996/636)

N/F
MOKIA LP
DB. 21750 PG. 1104

21L220022
9740 MANCHESTER RD

SI 345B PROPOSED PCC SINGLE STREET INLET

SI 345 PROPOSED PCC SINGLE STREET INLET

EXISTING 15" PIPE (UIP)

EXISTING INLET (UIP) SI 345A

SI 345C PROPOSED PCC SINGLE STREET INLET

175

MATCHLINE STA. 172+50.00

PT STA 173+31.51

℄ ROUTE 100

PC STA 176+18.57

MATCHLINE STA. 177+50.00

PROPOSED 120'-24" GROUP B PIPE
PROPOSED 128'-18" GROUP B PIPE

PROPOSED 143'-18" GROUP B PIPE

S 71° 13' 48" W

EXISTING 12" PIPE (UIP)

PROPOSED 67'-15" GROUP B PIPE

PROPOSED 41'-24" GROUP B PIPE

SI 344 REMOVE EXISTING INLET AND REPLACE WITH PCC SINGLE STREET INLET

N/F
9725 MANCHESTER LLC
DB. 15800, PG. 2991

21L220123
9725 MANCHESTER ROAD

DI 344A PROPOSED PCC DOUBLE STREET INLET

SUBJECT TO EASEMENTS GRANTED
TO UNION ELECTRIC COMPANY
DB. 3732, PG. 206

APPROX. LOCATION OF 10' EASEMENT
GRANTED TO THE METROPOLITAN
ST. LOUIS SEWER DISTRICT.
DB. 6679, PG. 402 & 404

3' EASEMENT GRANTED TO
UNION ELECTRIC CO.
DB. 915, PG. 296

N/F
FHBC LLC
DB. 21708, PG. 253

21L220105
9737 MANCHESTER ROAD

HUDSON AVE

SCALE
0 20 40 60

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DATE PREPARED
2/5/2020

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

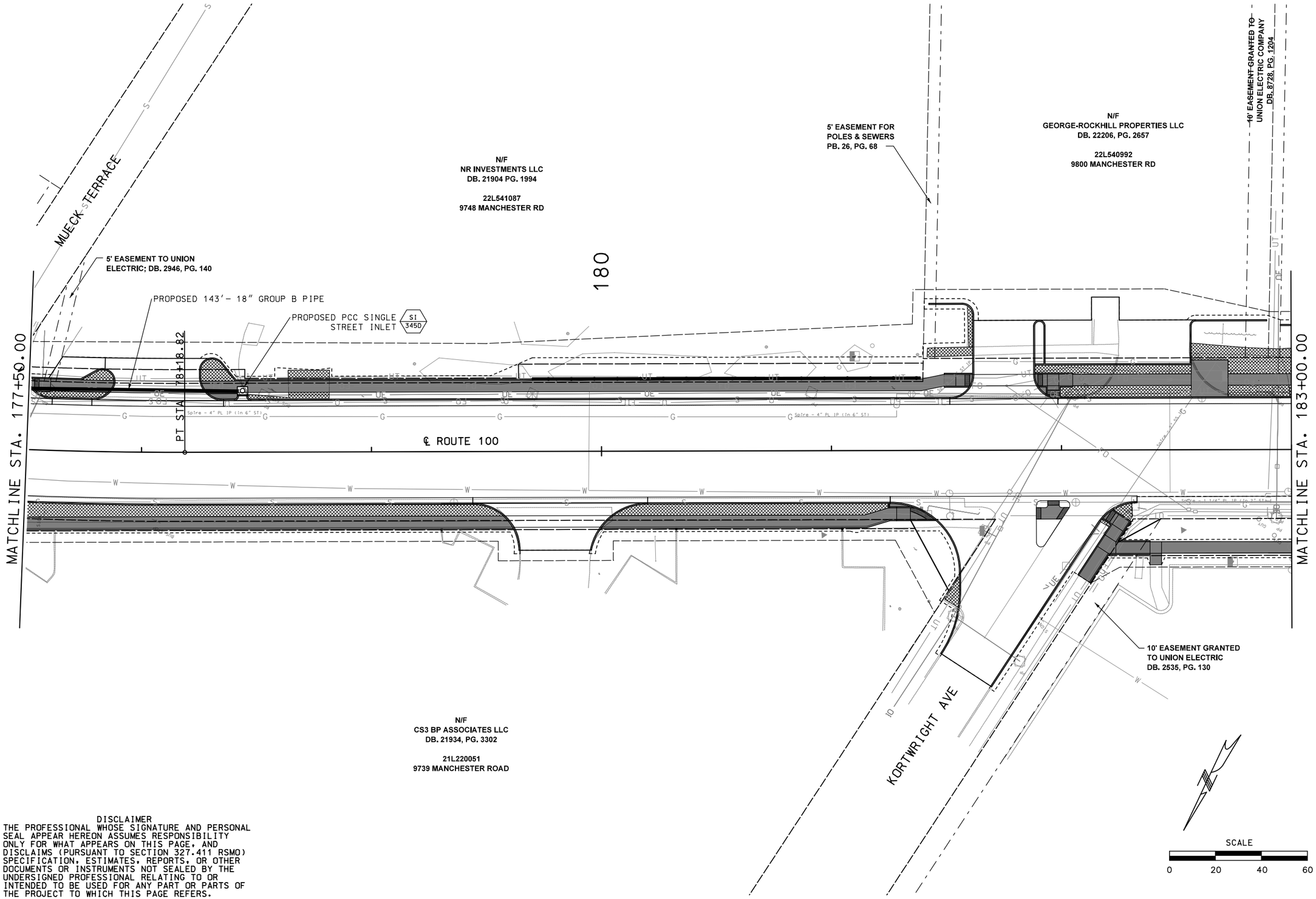
DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 29 OF 92

P:\Transportation\2157 - Route 100 - Lindbergh to Big Bend\CAD\plan_sheets\MODOT\029_DP_29_J6S3210_20.dgn 5:47:40 PM 2/5/2020



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ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 30 OF 92

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N/F
DAN CHARLES WINTERMANTEL
DB. 16013 PG. 745

22L541313
9804 MANCHESTER RD

N/F
ALEXANDER VENTURES LLC
DB. 19471 PG. 1461

22L531264
9810 MANCHESTER RD

N/F
ROCK HILL PARTNERS LLC
DB. 17505 PG. 1790

22L531321
9814 MANCHESTER RD

BLOSSOM AVE

185

MANITOU DR

STA. 183+00.00

STA. 187+50.00

MATCHLINE STA. 183+00.00

MATCHLINE STA. 187+50.00

℄ ROUTE 100

PROPOSED PCC DOUBLE STREET INLET (DI 348)

PROPOSED PCC SINGLE STREET INLET (SI 348A)

REPLACE EXISTING 18" PIPE WITH PROPOSED 66'-21" GROUP B PIPE

EXISTING INLET MSD #22L1-026D (UIP) (SI 350)

PROPOSED PCC MANHOLE - 48" (MH 350-1)

EXISTING 21" PIPE (UIP)

PROPOSED 12'- 21" GROUP B PIPE

PROPOSED PCC DOUBLE STREET INLET (DI 350B)

PROPOSED PCC MANHOLE (MH 350-2)

PROPOSED 48'-21" GROUP B PIPE

PROPOSED PCC DOUBLE STREET INLET (DI 350A)

PROPOSED 22'-18" GROUP B PIPE

EXISTING MH (UIP) (MH 348)

REPLACE EXISTING 15" PIPE WITH PROPOSED 37' - 21" GROUP B PIPE

PROPOSED 6'- 21" GROUP B PIPE

PROPOSED 92'-21" GROUP B PIPE

PROPOSED 188'-21" GROUP B PIPE

EXISTING 15" PIPE (UIP)

PROPOSED 77'-18" GROUP B PIPE

PROPOSED PCC MANHOLE - 48" (MH 349-2)

PROPOSED 6'-18" GROUP B PIPE

PROPOSED 83'-18" GROUP B PIPE

PROPOSED 93'-18" GROUP B PIPE

REMOVE EXISTING INLET

PROPOSED PCC MANHOLE - 48" (MH 349-3)

PROPOSED 7'-21" GROUP B PIPE

EXISTING 18" PIPE

PROPOSED PCC DOUBLE STREET INLET (DI 351A)

PROPOSED PCC MANHOLE - 48" (MH 349-1)

PROPOSED PCC SINGLE STREET INLET (SI 349B)

EXISTING 15" PIPE (UIP)

PROPOSED 69'-18" GROUP B PIPE

PROPOSED PCC DOUBLE STREET INLET (DI 351)

REPLACE EXISTING INLET WITH PCC SINGLE INLET (SI 349)

EXISTING 18" PIPE (UIP)

REPLACE EXISTING INLET WITH PCC DOUBLE STREET INLET (DI 349C)

15' WIDE SEWER EASEMENT
DB. 7719, PG. 830

N/F
WALTRUST PROPERTIES INC.
DB. 17177, PG. 2444

21L211174
9801 MANCHESTER ROAD

N/F
CITY OF ROCK HILL
MUNICIPAL LIBRARY DISTRICT
DB. 20044, PG. 1763

22L531101
9811 MANCHESTER ROAD

N/F
McDONALDS CORP
DB. 7714, PG. 837

22L531330
9815 MANCHESTER ROAD

SCALE
0 20 40 60

DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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BRIDGE NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 31 OF 92

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N/F
ROCK HILL PARTNERS LLC
DB. 17505 PG. 1790

22L531321
9814 MANCHESTER RD

SUBJECT TO EASEMENTS GRANTED TO THE ELECTRIC CO. OF MISSOURI
DB. 400, PG. 623-624

N/F
SHIRLEY M. HOWE
DB. 8260 PG. 923

22L530845
9838 MANCHESTER RD

SUBJECT TO EASEMENT GRANTED TO THE ELECTRIC COMPANY OF MISSOURI
DB. 400, PG. 623

N/F
9840 MANCHESTER ROAD LLC
DB. 12517 PG. 130

22L530827
9840 MANCHESTER RD

SUBJECT TO EASEMENT GRANTED TO THE ELECTRIC COMPANY OF MISSOURI
DB. 400, PG. 623

N/F
9842 LLC
DB. 15755 PG. 1513

22L530791
9842 MANCHESTER RD

SUBJECT TO EASEMENT GRANTED TO THE ELECTRIC COMPANY OF MISSOURI
DB. 400, PG. 623

N/F
JPBF PROPERTIES
DB. 17878 PG. 4639

22L530780
9846 MANCHESTER RD

190

TAVALON AVE

MH 350A PROPOSED PCC MANHOLE – 48″

DI 350E PROPOSED PCC DOUBLE STREET INLET

PROPOSED 5′– 21″ GROUP B PIPE

SI 350C PROPOSED PCC SINGLE STREET INLET

PROPOSED 27′– 18″ GROUP B PIPE

PROPOSED PCC SINGLE STREET INLET SI 350D

STA. 187+50.00

MATCHLINE STA. 187+50.00

PROPOSED 188′–21″ GROUP B PIPE

℄ ROUTE 100

S 64° 19′ 15″ W

PROPOSED 206′– 21″ GROUP B PIPE

PROPOSED 253′–18″ GROUP B PIPE

STA. 192+50.00

MATCHLINE STA. 192+50.00

PROPOSED 18′– 18″ GROUP B PIPE

PROPOSED 166′–18″ GROUP B PIPE

PROPOSED 130′– 18″ GROUP B PIPE

PROPOSED 93′–18″ PIPE

SI 351C PROPOSED PCC SINGLE STREET INLET

SI 351D PROPOSED PCC SINGLE STREET INLET

DI 351E PROPOSED PCC DOUBLE STREET INLET

D-DAY AVE

PROPOSED PCC SINGLE STREET INLET SI 351B

10' RIGHT OF ENTRY AGREEMENT
SOUTHWESTERN BELL TELEPHONE
DB. 20764, PG. 1251

N/F
McDONALDS CORP
DB. 7714, PG. 837

22L531330
9815 MANCHESTER ROAD

N/F
HARTZKE TRUST
DB. 21585, PG. 864

22L530964
9833 MANCHESTER ROAD

N/F
MANCHESTER SPEEDWAY COMPANY
DB. 6505, PG. 1247

22L531341
9841 MANCHESTER ROAD

SCALE
0 20 40 60

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100	MO
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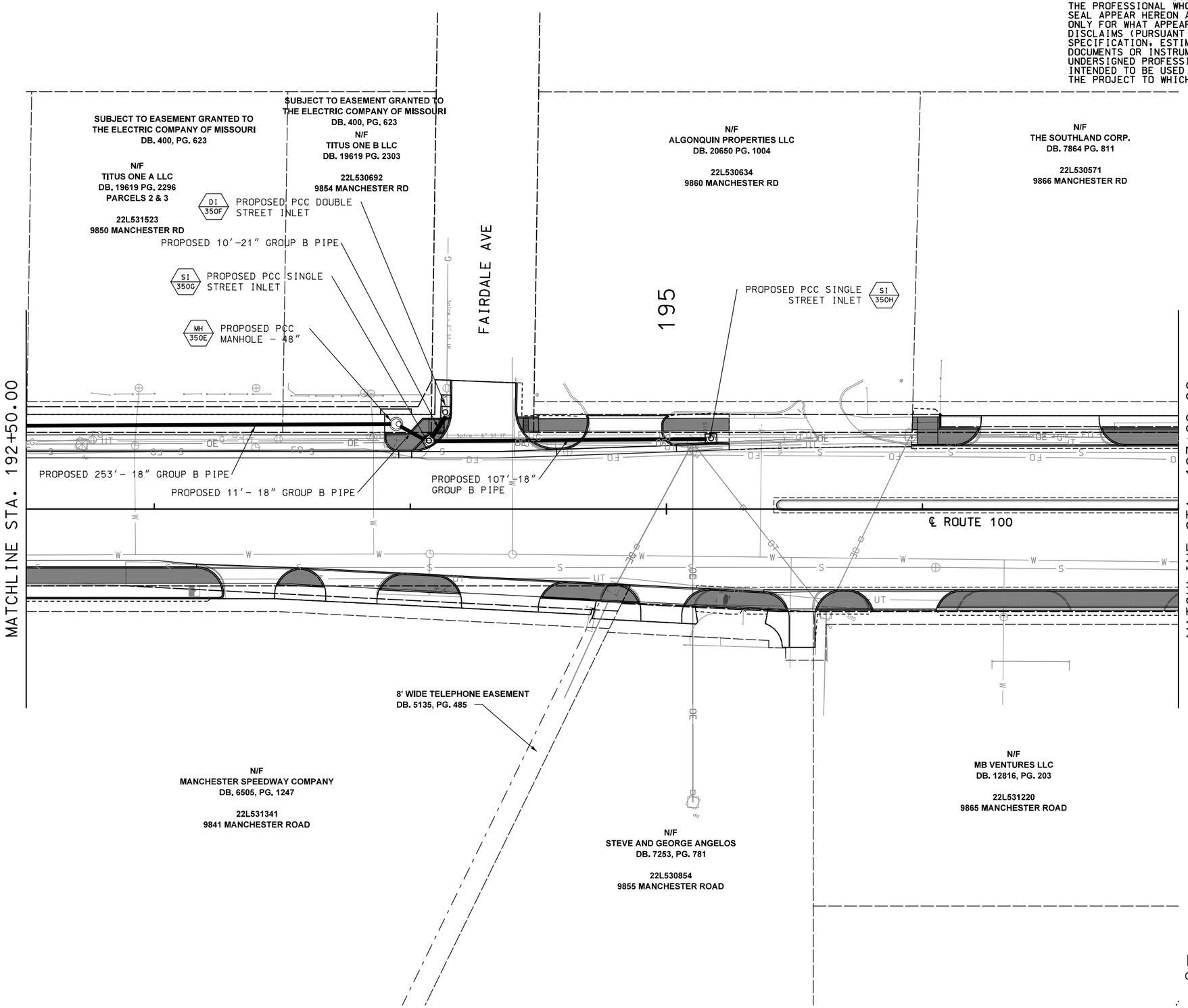
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 32 OF 92

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DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718
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105 WEST CAPITOL
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 33 OF 92

REV.

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N/F
THE SOUTHLAND CORP.
DB. 7864 PG. 811

22L530571
9866 MANCHESTER RD

N BERRY RD

SUBJECT TO EASEMENT GRANTED TO
UNION ELECTRIC LIGHT AND POWER COMPANY
DB. 818, PG. 7

N/F
MANCHESTER PROPERTY
INVESTORS LLC.
DB. 19800 PG. 2639

22L441103
9900 MANCHESTER RD

N/F
9910 LLC
DB. 18685 PG. 1346

22L440205
9910 MANCHESTER RD

MONIER PLACE

N/F
LAURIE'S SHOE CENTER, INC.
DB. 3949 PG. 32

22L440184
9916 MANCHESTER RD

N/F
CHRISTOPHER AND
CHRISTINE KAEMMERER
DB. 9443 PG. 1353

22L440162
3 FREDERICK LANE

PROPOSED PCC 2-GRATE
INLET WITH SIDE INTAKE
SI 401A

MATCHLINE STA. 197+00.00

PC STA 198+47.20

℄ ROUTE 100

PT STA 200+47.29

POT1 STA 201+00.00

EQUATION:
STA 201+00.00 BK =
STA 201+00.00 AH

MATCHLINE STA. 202+50.00

PROPOSED 184′-18″
GROUP B PIPE

PROPOSED 129′-18″
GROUP B PIPE

SI 404C PROPOSED PCC SINGLE
STREET INLET

5' EASEMENTS
PB. 37, PG. 16

N/F
MB VENTURES LLC
DB. 12816, PG. 203

22L531220
9865 MANCHESTER ROAD

N/F
SCOTT REALTY HOLDINGS LLC
DB. 21704, PG. 699
PARCELS 1 & 2

22L441305
22L441295
9887 MANCHESTER ROAD
9877 MANCHESTER ROAD

SCALE
0 20 40 60

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COUNTY ST. LOUIS
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CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

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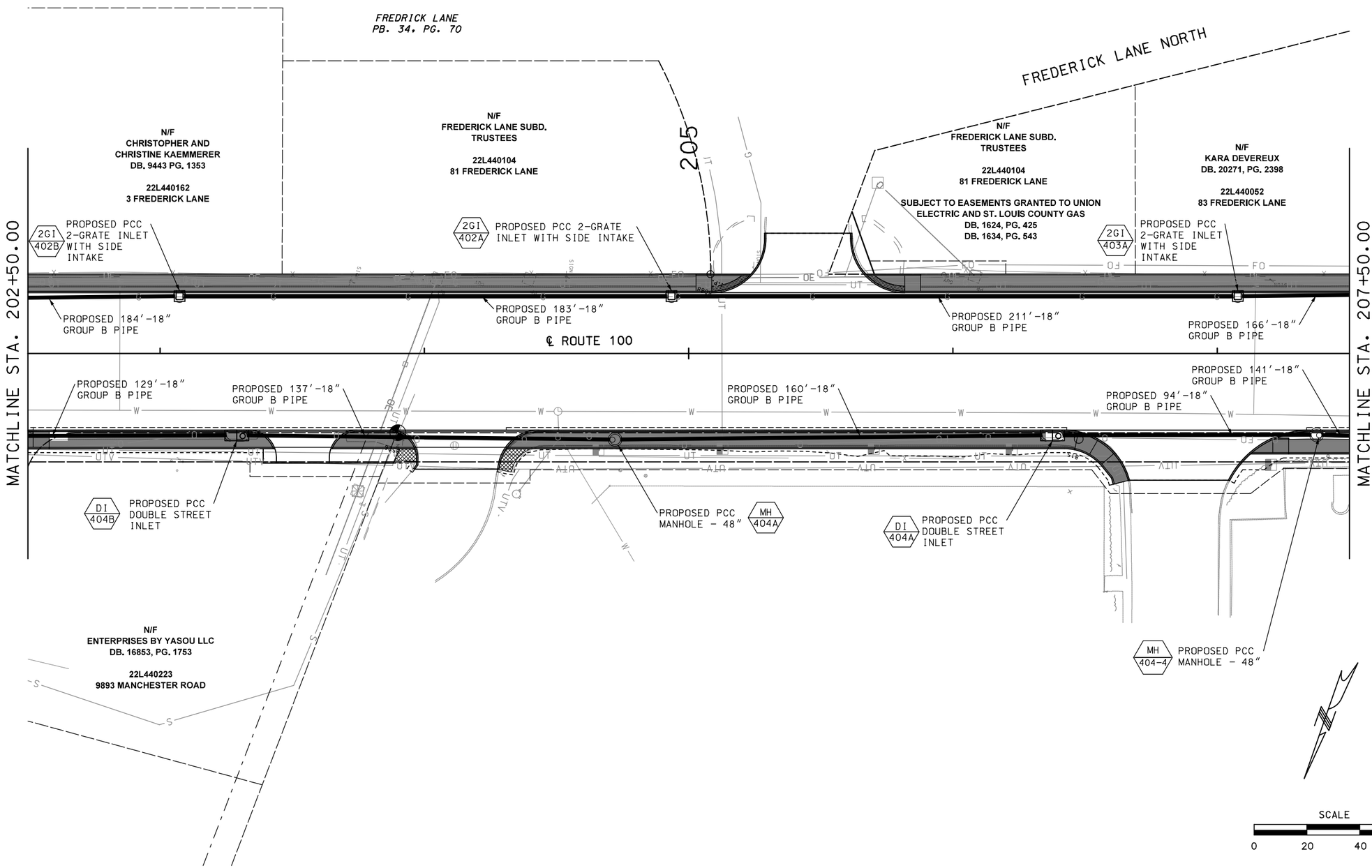
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 34 OF 92

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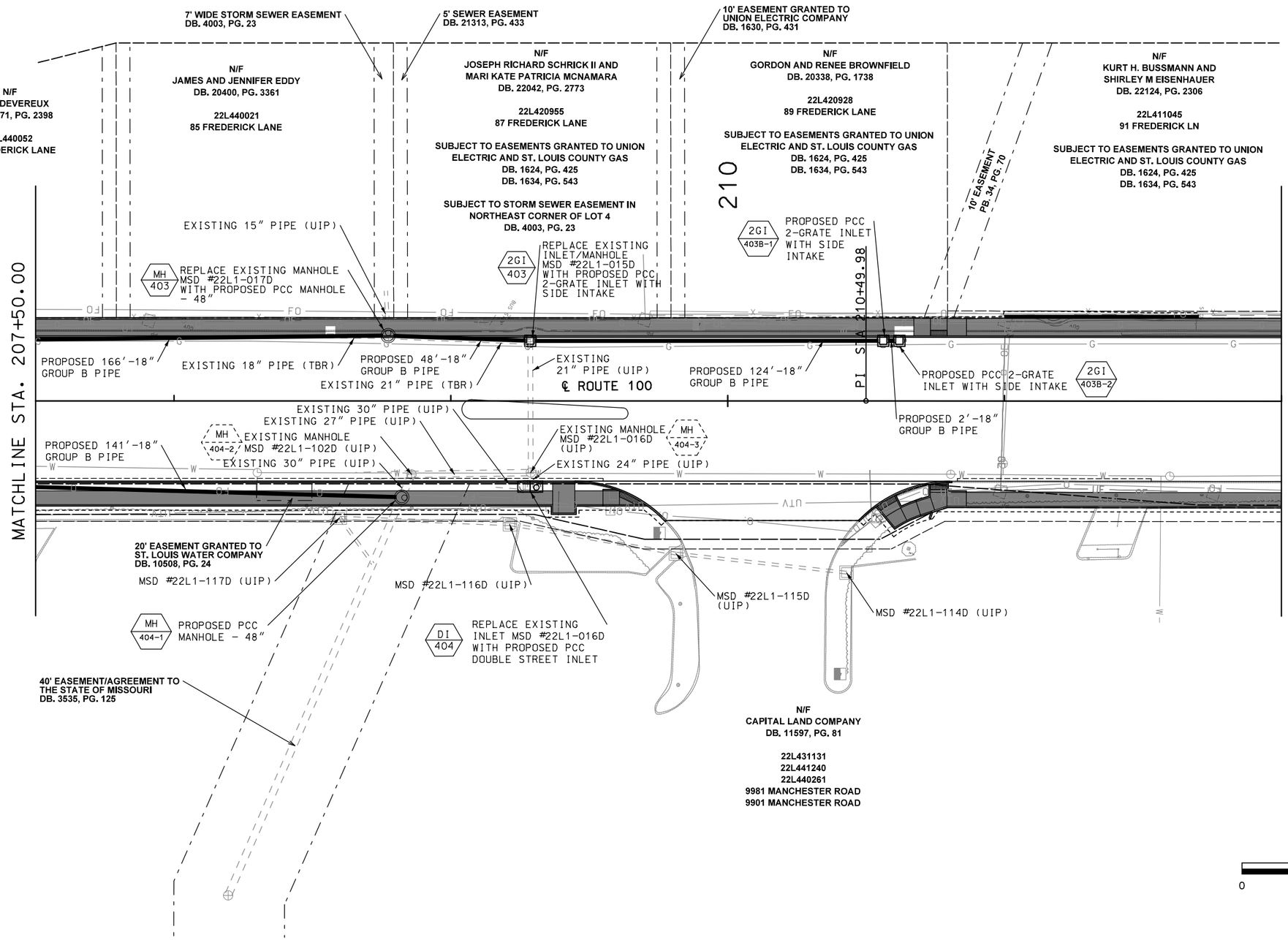
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 35 OF 92

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FREDERICK LANE NORTH



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100	MO
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SL	

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BRIDGE NO.: —

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 36 OF 92

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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INGRESS / EGRESS EASEMENT
PB. 359, PG. 53

5' EASEMENT
PB. 34, PG. 70

N/F
RENNER/GREEN/WEBER
FAMILY LLC
DB. 19602, PG. 996

22L411302
9986 MANCHESTER ROAD

STORMWATER DETENTION
EASEMENT
DB. 18497, PG. 853

ROYAL BANKS OF MISSOURI
PB. 359, PG. 53

N/F
ROYAL BANKS OF MISSOURI
DB. 18245, PG. 2854

22L411311
9990 MANCHESTER ROAD

N/F
JEFFERSON SAVINGS AND
LOAN ASSOCIATION
DB. 6709, PG. 1300

22L411188
9994 MANCHESTER ROAD

N/F
MILOR REALTY CORP.
DB. 6669, PG. 178
DB. 5325, PG. 291

22L411166
9998 MANCHESTER ROAD

2GI 405 — PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

2GI 405A-2 — PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

2GI 405A-1 — PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

MATCHLINE STA. 212+00.00

PI STA 214+13.32

℄ ROUTE 100

MATCHLINE STA. 217+50.00

PROPOSED 60'-15" GROUP B PIPE

PROPOSED 2'-15" GROUP B PIPE

EASEMENT GRANTED TO
UNION ELECTRIC COMPANY
DB. 6465, PG. 1549

50' WIDE EASEMENT TO
LACLEDE GAS COMPANY (DB. 10214, PG. 902)
AND THE METROPOLITAN ST. LOUIS
SEWER DISTRICT (DB. 10229, PG. 661)

ANDREW DR

SCALE
0 20 40 60

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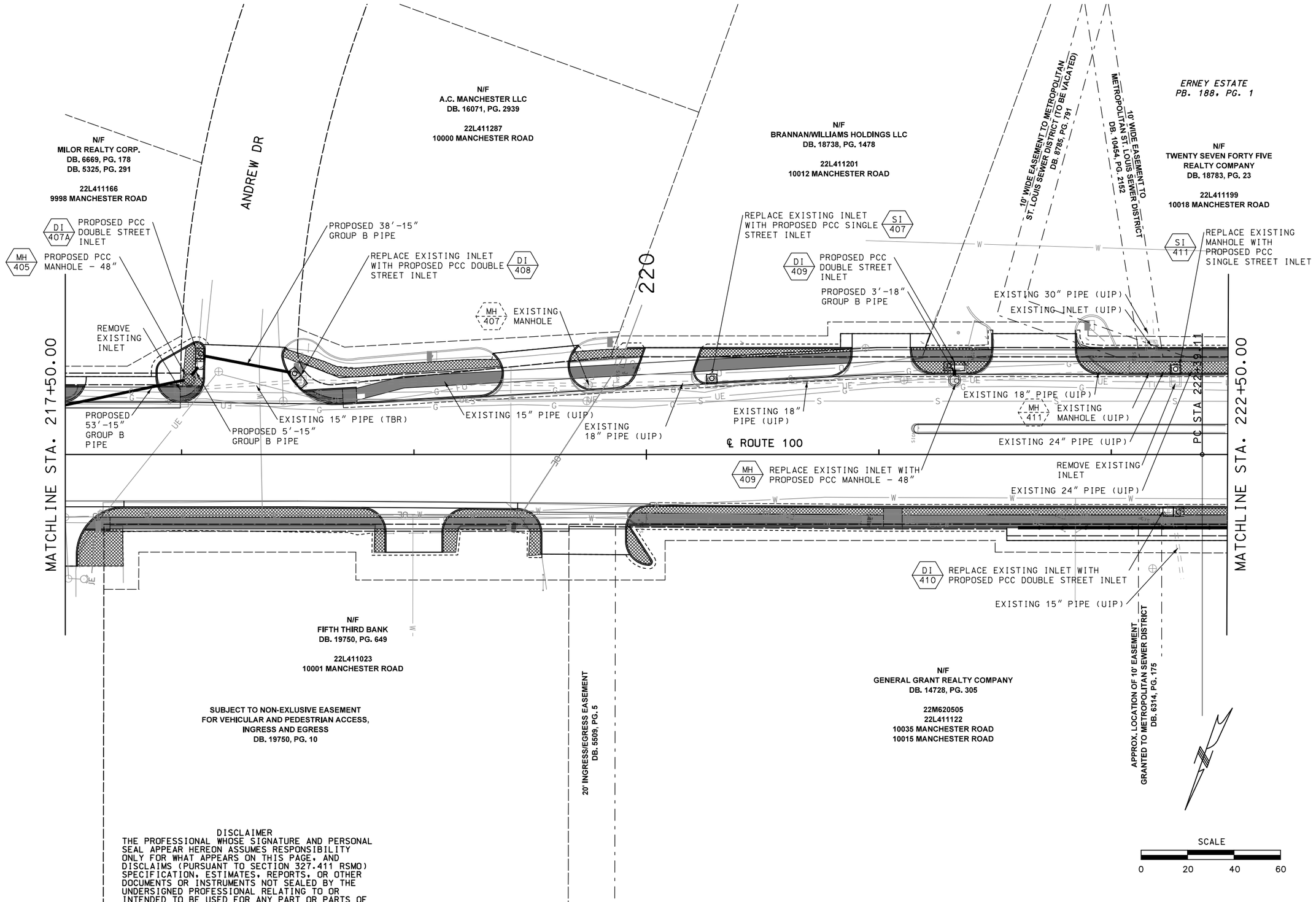
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CIVIL DESIGN, INC.
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 37 OF 92

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 38 OF 92

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REV.

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ERNEY ESTATE
PB. 188, PG. 1

N/F
TWENTY SEVEN FORTY FIVE
REALTY COMPANY
DB. 18783, PG. 23

22L411199
10018 MANCHESTER ROAD

N SAPPINGTON RD

N/F
WAYCLIFFE DEVELOPMENT CORP.
DB. 6596, PG. 1070

22M620541
10028 MANCHESTER ROAD

SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC COMPANY
DB. 4091, PG. 394

N/F
M & S L.C.
DB. 12066, PG. 798

22M620514
10044 MANCHESTER ROAD

N/F
UNION ELEC. COMPANY
DB. 4047, PG. 266

22M620523
10054 MANCHESTER ROAD

225

DI 413 — REPLACE EXISTING INLET WITH PROPOSED PCC DOUBLE STREET INLET

EXISTING 27" PIPE (UIP)

PROPOSED PCC DOUBLE STREET INLET — DI 414B

PROPOSED 50'-18" GROUP B PIPE

PROPOSED PCC MANHOLE — MH 414A

DI 414A — PROPOSED PCC DOUBLE STREET INLET

PROPOSED 91'-15" GROUP B PIPE

PROPOSED 258'-15" GROUP B PIPE

℄ ROUTE 100

PT STA 224+22.21

PI STA 226+06.33

MATCHLINE STA. 222+50.00

MATCHLINE STA. 227+50.00

PROPOSED 115'-18" GROUP B PIPE

PROPOSED 123'-18" GROUP B PIPE

PROPOSED 152'-18" GROUP B PIPE

DI 415C — PROPOSED PCC DOUBLE STREET INLET

PROPOSED PCC MANHOLE - 48" — MH 415C

MH 415B — PROPOSED PCC MANHOLE - 48"

PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE — SI 415B

PROPOSED 8'-18" GROUP B PIPE

APPROX. LOCATION OF 10' EASEMENT GRANTED TO SOUTHWESTERN BELL TELEPHONE CO. DB. 6330, PG. 1464

5' UTILITY EASEMENT PB. 65, PG. 39

INGRESS/EGRESS EASEMENT DB. 11137, PG. 1847

10' EASEMENT GRANTED TO UNION ELECTRIC COMPANY DB. 6335, PG. 1509

10' EASEMENT GRANTED TO ST. LOUIS COUNTY WATER COMPANY DB. 12457, PG. 806

10' EASEMENT GRANTED TO SOUTHWESTERN BELL TELEPHONE CO. DB. 7119, PG. 695

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SCALE
0 20 40 60

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DATE PREPARED 2/5/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID. —
PROJECT NO. —
BRIDGE NO. —

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 39 OF 92

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MATCHLINE STA. 227+50.00

MATCHLINE STA. 233+00.00

10' EASEMENT, DB 2534, PG 218

N/F
MERLO AUTOMOTIVE GROUP, INC
DB. 19902, PG. 546

22M620550
10058 MANCHESTER ROAD

N/F
SHIRLEY A. MERLO
REVOCABLE LIVING TRUST
DB. 11319, PG. 2246

22M620561
10070 MANCHESTER ROAD

EASEMENT
PB. 188, PG. 36

36' EASEMENT
PB. 115, PG. 49

5' EASEMENT GRANTED TO
UNION ELECTRIC COMPANY
DB. 6167, PG. 343

10' SEWER EASEMENT
DB. 1527, PG. 174

MH 414-2 PROPOSED PCC MANHOLE – 48"

MH 414 PROPOSED PCC MANHOLE – 48"

MH 417A REPLACE EXISTING INLET MSD #22M2-061D WITH PROPOSED PCC MANHOLE – 48"

2GI 414-1 PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

2GI 414-2 PROPOSED PCC 2-GRATE INLET WITH SIDE INTAKE

EXISTING 15" PIPE (UIP)

PROPOSED PCC MANHOLE – 48" MH 417

EXISTING 12" PIPE (UIP)

REPLACE EXISTING INLET WITH PROPOSED PCC MANHOLE – 48" MH 417B

PROPOSED PCC 2-GRATE SIDE INTAKE INLET 2GI 417-1

PROPOSED PCC 2-GRATE SIDE INTAKE INLET 2GI 417-2

EASEMENT
PB. 188, PG. 36

PROPOSED 94'-18" GROUP B PIPE

PROPOSED 109'-18" GROUP B PIPE

PROPOSED 2'-24" GROUP B PIPE

PROPOSED 47'-24" GROUP B PIPE

PC STA 230+07.35

℄ ROUTE 100

PT STA 231+71.39

PROPOSED 2'-24" GROUP B PIPE

PROPOSED 30'-24" GROUP B PIPE

PROPOSED 152'-18" GROUP B PIPE

PROPOSED 138'-18" GROUP B PIPE

PROPOSED 5'-18" GROUP B PIPE

PROPOSED 70'-18" GROUP B PIPE

PROPOSED 6'-18" GROUP B PIPE

REMOVE EXIST. INLET MSD #22M2-068D

PROPOSED 44'-18" GROUP B PIPE

EXISTING 18" PIPE

PROPOSED 162'-15" GROUP B PIPE

MH 415A-2 PROPOSED PCC MANHOLE – 48"

DI 415A PROPOSED PCC DOUBLE STREET INLET

MH 415A-1 PROPOSED PCC MANHOLE – 48"

DI 415 PROPOSED PCC DOUBLE STREET INLET

EXISTING 18" PIPE

MH 415-1 PROPOSED PCC MANHOLE – 48"

PROPOSED PCC MANHOLE – 48" MH 415-2

SI 416 EXISTING INLET MSD #22M2-066D (UIP)

EXISTING 15" PIPE (UIP)

MH 419 PROPOSED PCC MANHOLE – 48"

PROPOSED 17'-15" GROUP B PIPE

REPLACE EXISTING INLET MSD #22M2-225D WITH PROPOSED DOUBLE STREET INLET DI 419

N/F
PHP DEVELOPMENT LLC
DB. 12811, PG. 2001

22M620312
10115 MANCHESTER ROAD

N/F
CROWN DIVERSIFIED INDUSTRIES CORP.
DB. 7606, PG. 2206
PARCELS 3 & 4

22M620374
10039 MANCHESTER ROAD

3' EASEMENT UNION ELECTRIC
DB. 5808, PG. 165

APPROXIMATE LOCATION OF
50' WIDE STORM SEWER
EASEMENT PB. 65, PG. 39

APPROXIMATE LOCATION OF 10' WIDE
STORM SEWER EASEMENT
PB. 65, PG. 39

10' EASEMENT GRANTED TO
TWO MILE CREEK SANITARY SEWER DISTRICT
DB. 1503, PG. 505

BENNETT AVE

SCALE
0 20 40 60

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2/5/2020

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100	MO
DISTRICT	SHEET NO.
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COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

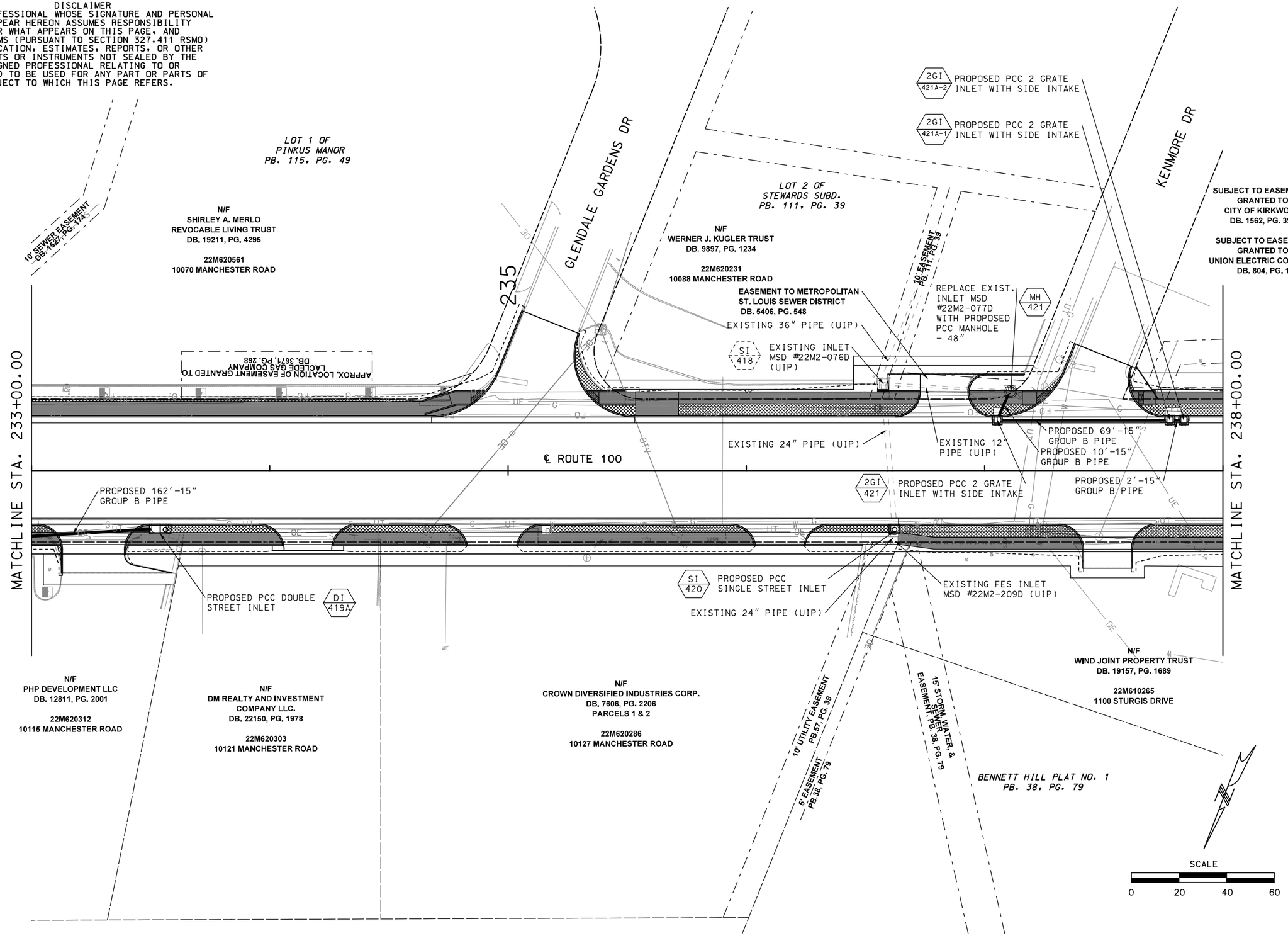
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 40 OF 92

REV.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

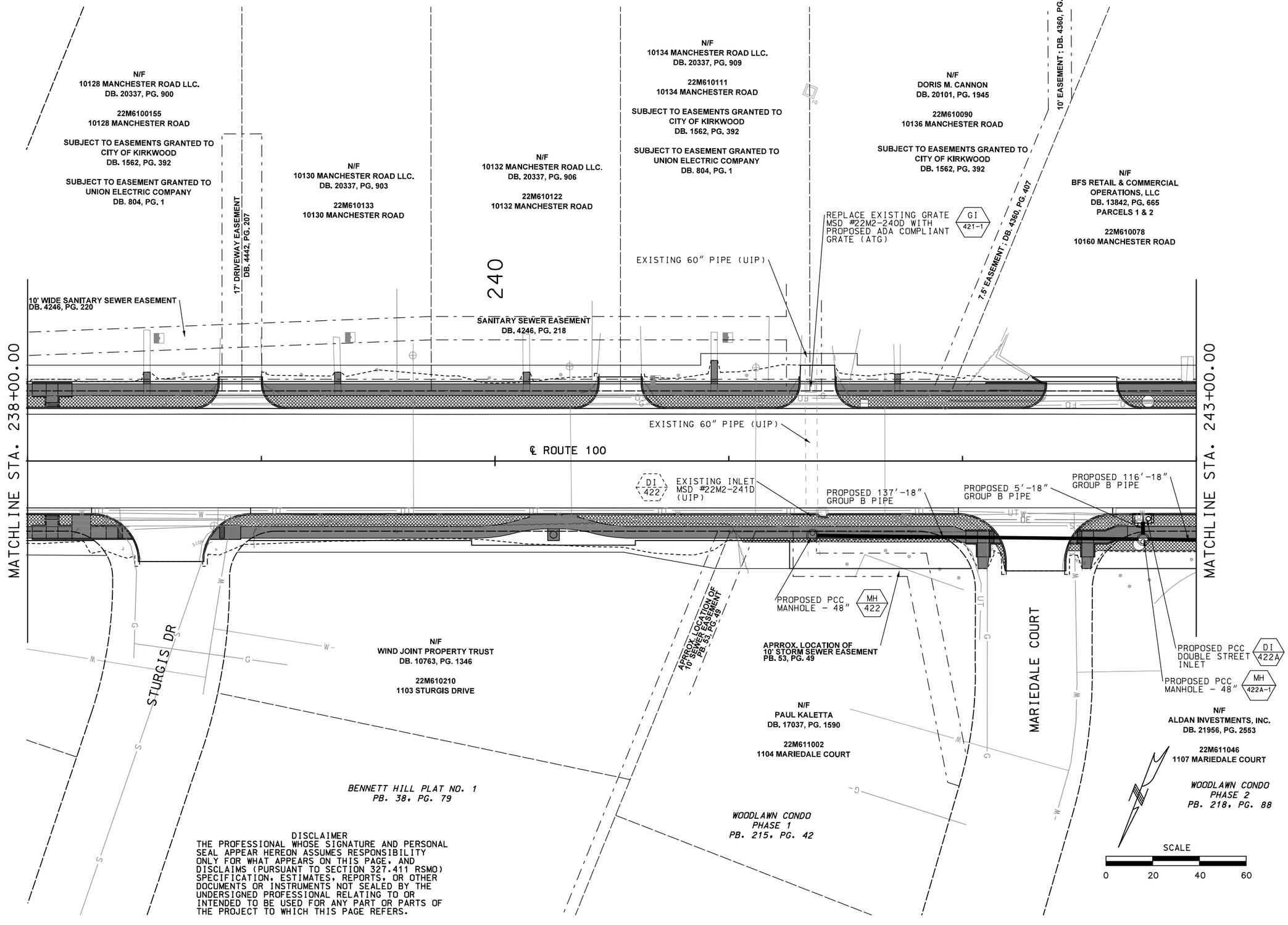
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 41 OF 92

REV.

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 42 OF 92

REV.

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N/F
CONNIE MARTIN BAKER LLC
DB. 21627, PG. 1016

22M331407
1054 DICKSON STREET

N/F
FRANK BAYLEY TRUST

22M611190
10170 MANCHESTER ROAD

N/F
BFS RETAIL & COMMERCIAL OPERATIONS, LLC
DB. 13842, PG. 665
PARCELS 1 & 2

22M610078
10160 MANCHESTER ROAD

N/F
DEAN TEAM, LLC
DB. 14897, PG. 1473

22M331283
10200 MANCHESTER ROAD

N/F
MANCHESTER LLC
DB. 13849, PG. 2431
PARCEL 1

22M331294
10204 MANCHESTER ROAD

SUBJECT TO STORM WATER DISCHARGE EASEMENT LOCATED AT A DISTANCE OF 59' SOUTH OF THE NORTHWEST CORNER OF SUBJECT PARCEL
DB. 4150, PG. 288

DICKSON ST

245

PC STA. 245+80.84

℄ ROUTE 100

MATCHLINE STA. 243+00.00

MATCHLINE STA. 248+00.00

PROPOSED 116'-18" GROUP B PIPE

PROPOSED 94'-18" GROUP B PIPE

PROPOSED 124'-18" GROUP B PIPE

PROPOSED 95'-18" GROUP B PIPE

MH 422A-2 PROPOSED PCC MANHOLE - 48"

DI 422B PROPOSED PCC DOUBLE STREET INLET

MH 422B PROPOSED PCC MANHOLE - 48"

DI 422C PROPOSED PCC DOUBLE STREET INLET

10' ELECTRIC EASEMENT
DB. 7471, PG. 401

N/F
ALDAN INVESTMENTS, INC.
DB. 21956, PG. 2553

22M611046
1107 MARIEDALE COURT

N/F
HARRY HEGEMAN REVOCABLE TRUST
DB. 12298, PG. 2177

22M610917
10205 MANCHESTER ROAD

SCALE
0 20 40 60

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COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
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PROJECT NO.
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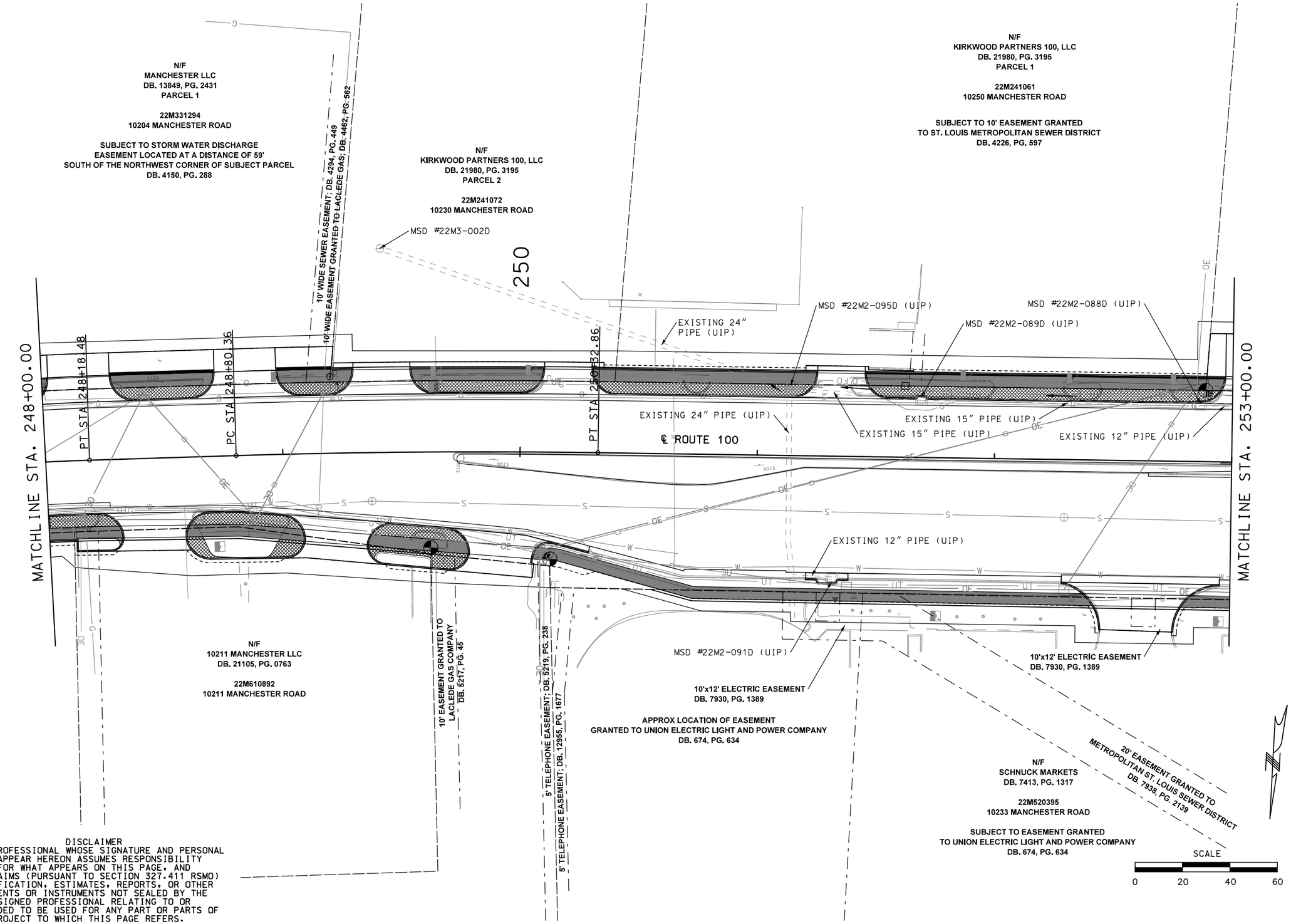
DATE	DESCRIPTION	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 43 OF 92

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ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

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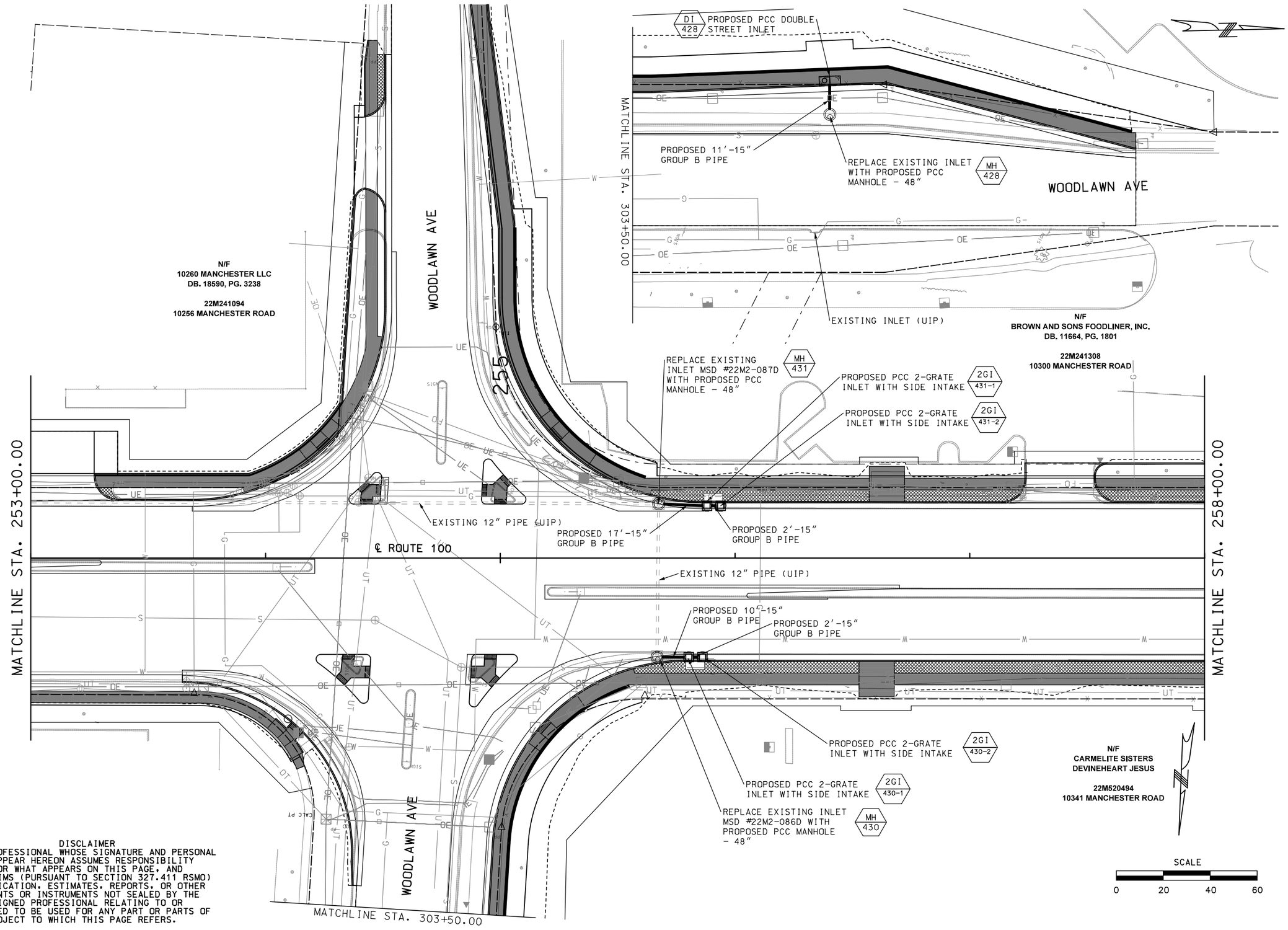
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 44 OF 92

REV.

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2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

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—

PROJECT NO.
—

BRIDGE NO.
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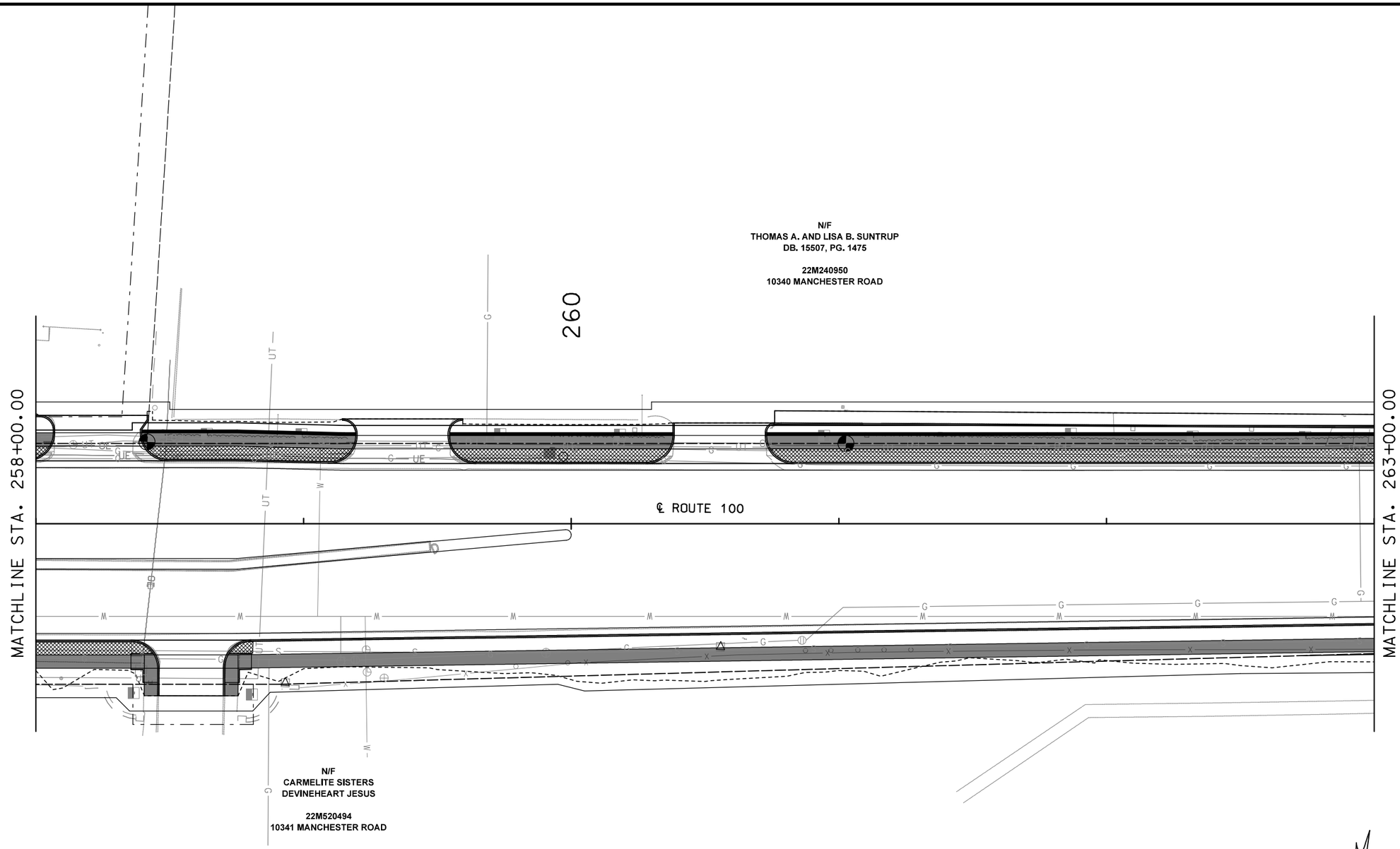
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 45 OF 92

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SCALE

0 20 40 60

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CONTRACT ID.
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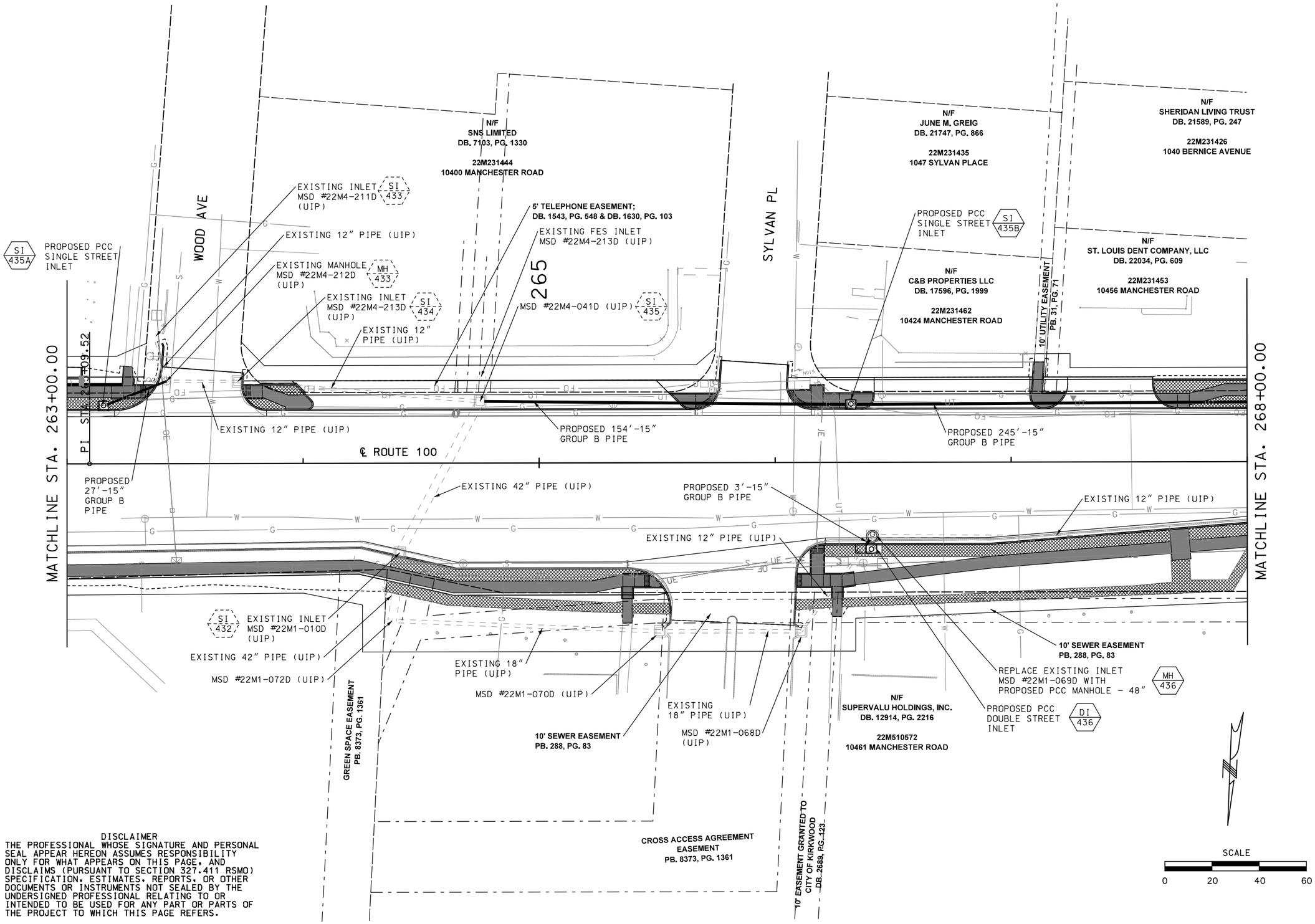
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 46 OF 92

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 47 OF 92

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ADELE
PG. 19, PG. 18

BERNICE AVE

N/F
WESTERN CONTINENTAL
INVESTMENTS, LLC
DB. 17202, PG. 2390

22M231408
10502 MANCHESTER ROAD

N/F
PENNINGTON / COGGAN
HOLDING LLC.
DB. 15971, PG. 1343

22M231417
10510 MANCHESTER ROAD

N/F
LOUIS H. BOPP, INC.
DB. 5880, PG. 119

22M231392
10520 MANCHESTER ROAD

CURREN AVE

10' UTILITY EASEMENT
PB. 354, PG. 931

BOPP CHAPEL
PG. 354, PG. 931

N/F
LOUIS H. BOPP, INC.
DB. 5880, PG. 119

22M231491
10610 MANCHESTER ROAD

PROPOSED PCC
DOUBLE STREET
INLET
DI
435D

270

MATCHLINE STA. 268+00.00

PI STA 271+11.42

PROPOSED 245'-15"
GROUP B PIPE

℄ ROUTE 100

MSD #22M1-094D (ATG)

MSD #22M1-093D (ATG)

EXISTING 12" PIPE (UIP)

MSD #22M1-091D (UIP)

EXISTING 12" PIPE (UIP)

EXISTING 12"
PIPE (UIP)

EXISTING 12" PIPE (UIP)

EXISTING 15" PIPE (UIP)

MSD #22M1-090D
(UIP)

MSD #22M1-088D (UIP)

EXISTING
12" PIPE (UIP)

EXISTING INLET
(UIP)

MATCHLINE STA. 273+00.00

N/F
EEB KIRK LLC
DB. 18140, PG. 1449

22M510583
10465 MANCHESTER ROAD

6' SIDEWALK EASEMENT
DB. 2888, PG. 397

ROADWAY EASEMENT (12 W)
DEDICATED TO CITY OF KIRKWOOD; PB. 345, PG. 510

N/F
ERIC W. KUHLMANN TRUSTEE
DB. 11422, PG. 443
PARCELS 1-3

22M510033
10515 MANCHESTER ROAD

N/F
WAYLAND LAND COMPANY
DB. 7102, PG. 1603
DB. 4814, PG. 29

22M510561
10525 MANCHESTER ROAD

20' INGRESS/EGRESS EASEMENT
DB. 4428, PG. 516

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DISTRICT	SHEET NO.
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COUNTY
ST. LOUIS

JOB NO.
J6S1718/J6S1718C

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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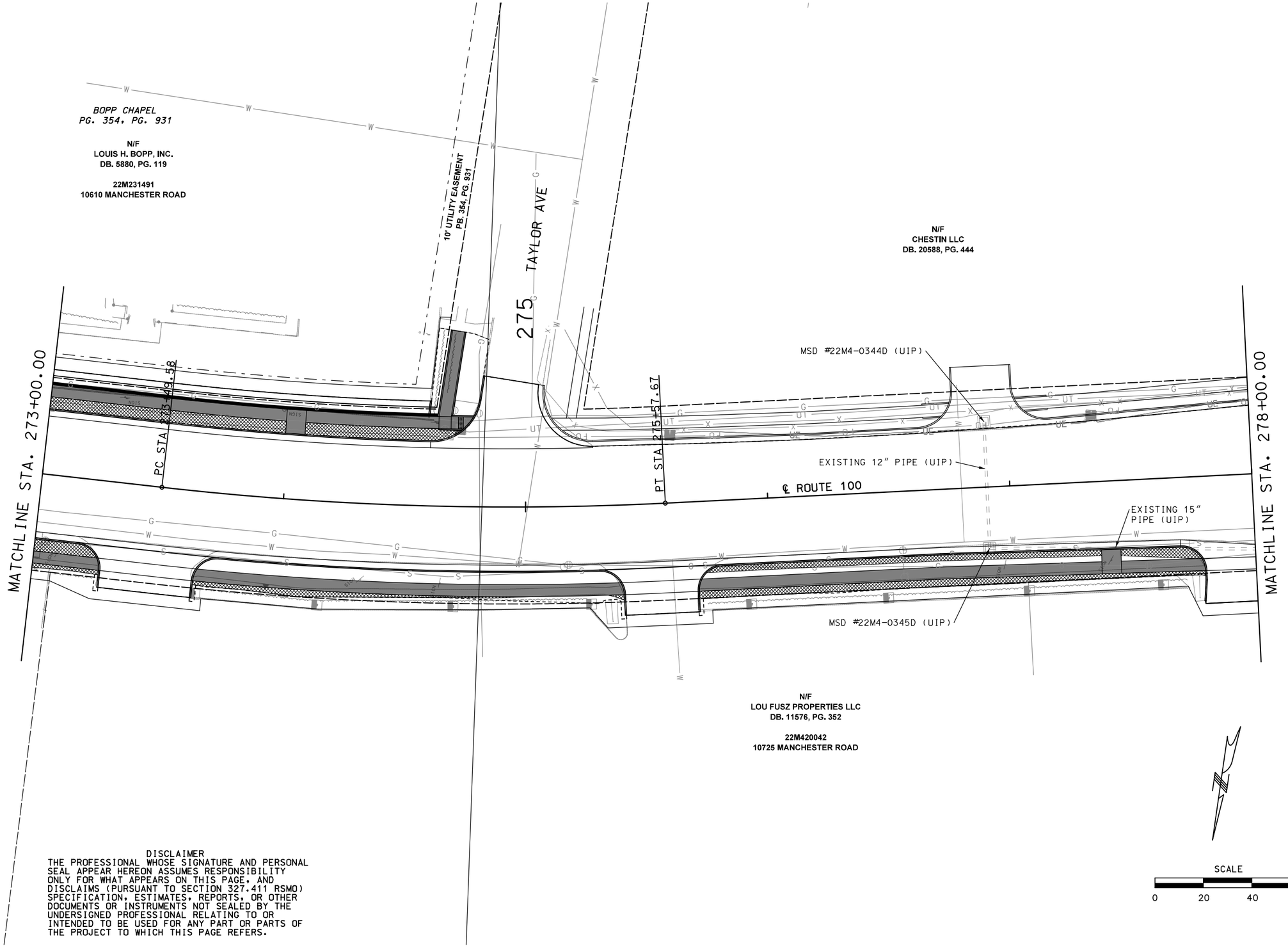
REV.	DESCRIPTION	DATE

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105 WEST CAPITOL
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 48 OF 92

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ROUTE	STATE
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DISTRICT	SHEET NO.
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COUNTY
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JOB NO.
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 49 OF 92

REV.

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N/F
THE HODGE ASSOC.
DB. 10620, PG. 1241

22M141116
1050 N. KIRKWOOD ROAD

N/F
FIGUEROA TRUST
DB. 21703, PG. 1205

22M141125
10764 MANCHESTER ROAD

N/F
MLSE II LLC
DB. 21586, PG. 42

22M141217
1018 NORTH KIRKWOOD ROAD

LINDBERGH BLVD

EXISTING 12" PIPE

MSD #22M4-0301D

MSD #22M4-086D

EXISTING INLET

EXISTING 12" PIPE

℄ ROUTE 100

PI STA 281+80.84

POT1 STA 281+98.98

EQUATION:
Sta 281+95.56 BK =
Sta 281+98.68 AH

POT STA 283+00.00

MATCHLINE STA. 278+00.00

EXISTING 12" PIPE

EXISTING 15" PIPE

EXISTING 15" PIPE

MSD #22M4-0343D

10' UTILITY EASEMENT
PB. 356, PG. 644

MSD #22M4-176D

N/F
LINCOLN INVESTMENT COMPANY

22M421212
10749 MANCHESTER ROAD

N/F
LINDBERGH MANCHESTER
REAL ESTATE LLC
DB. 22032, PG. 460

22M420011
10811 MANCHESTER ROAD

HOUSER CONSOLIDATION PLAT
PB. 356, PG. 644

LINDBERGH BLVD

10' UTILITY EASEMENT
PB. 356, PG. 644

SCALE
0 20 40 60

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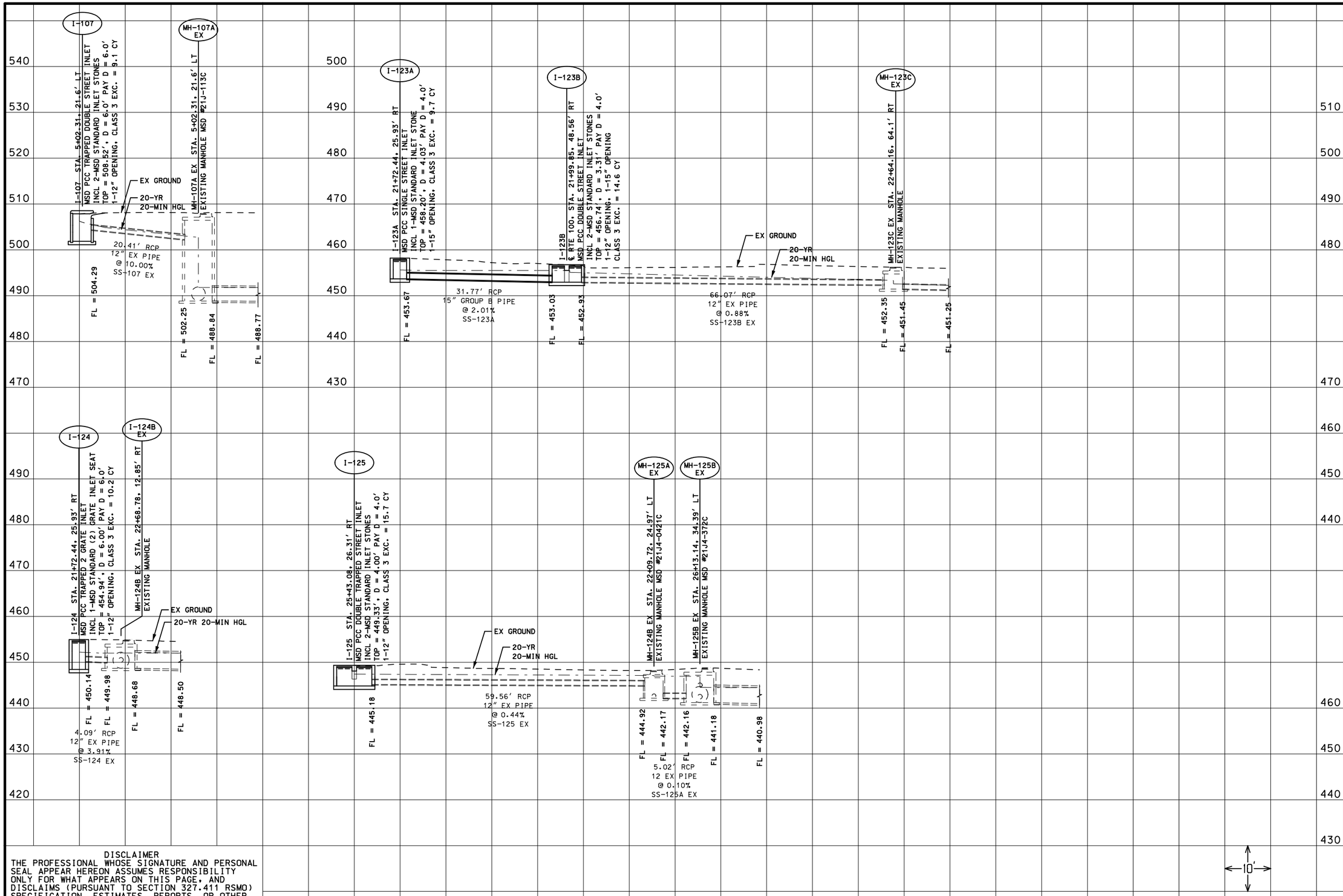
DATE	DESCRIPTION	REV.

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 50 OF 92

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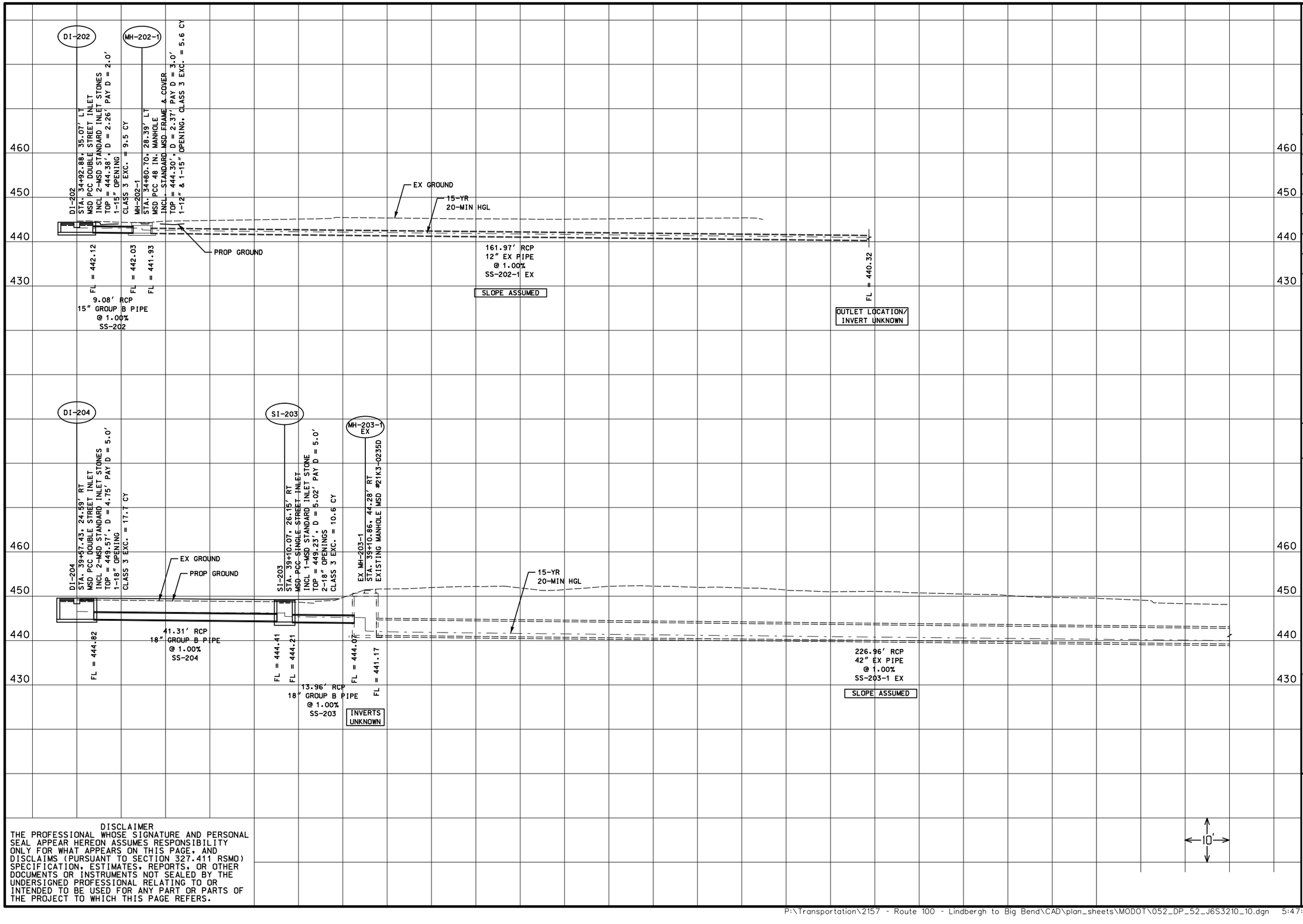
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
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REV.

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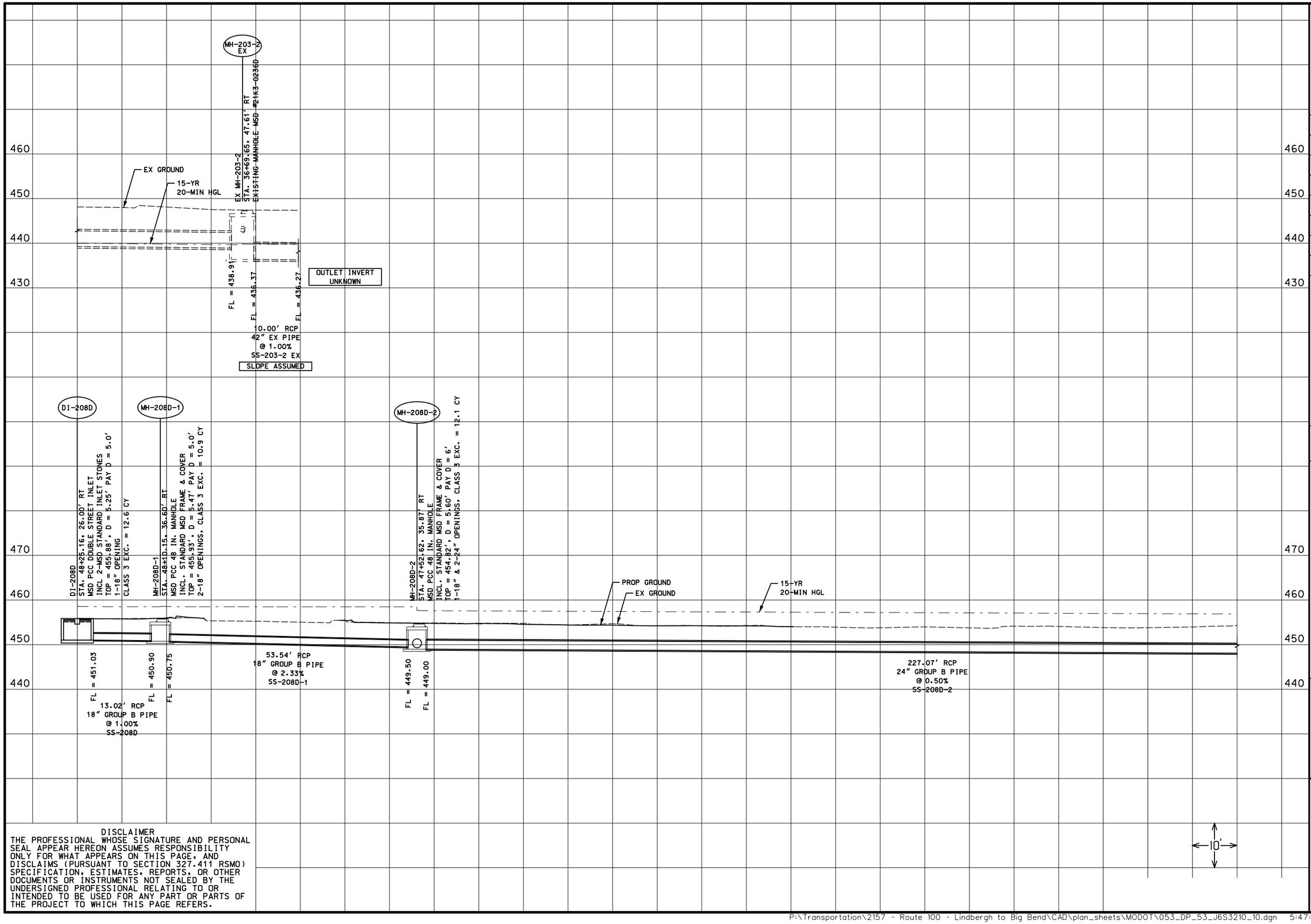
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
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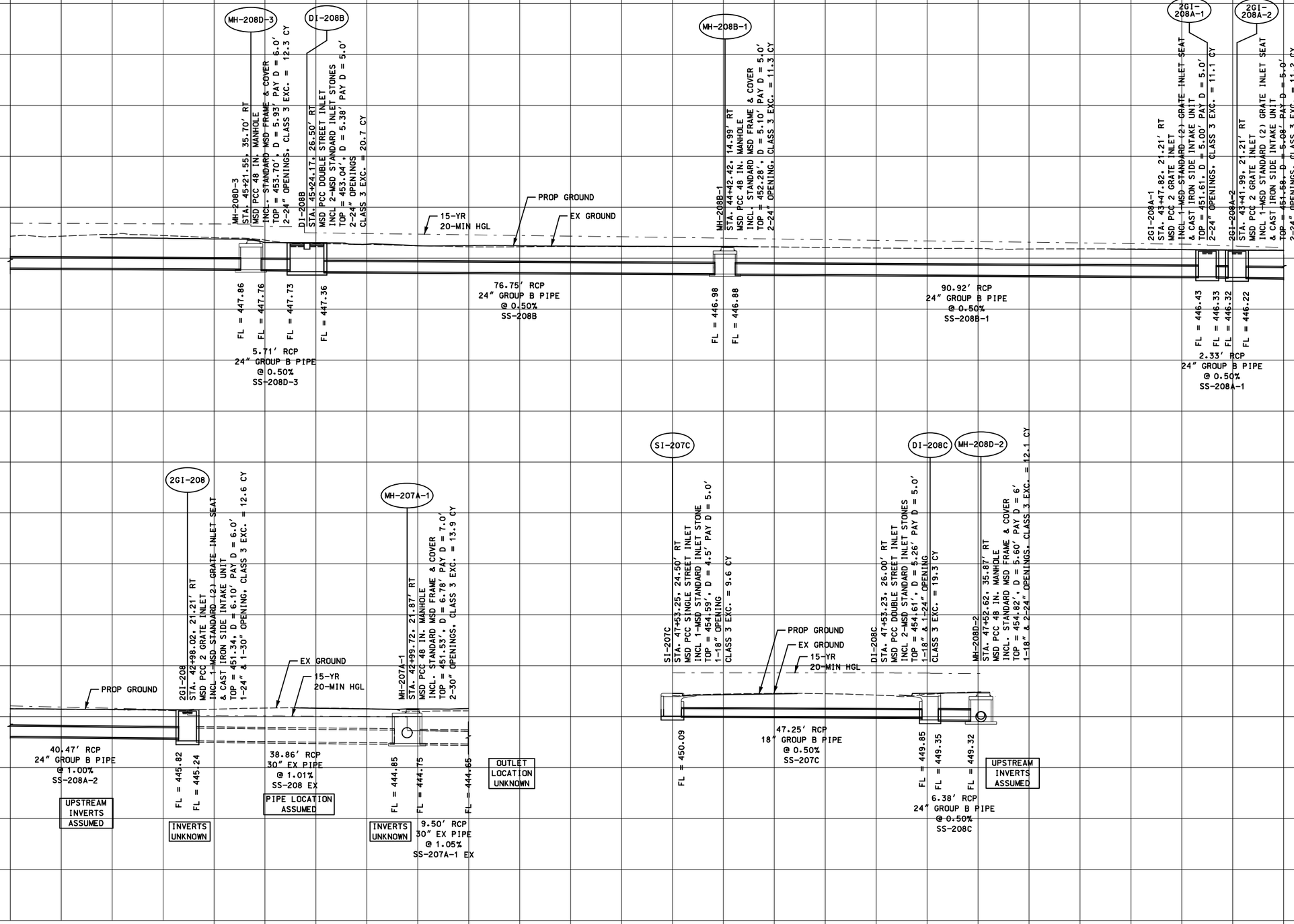
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 53 OF 92

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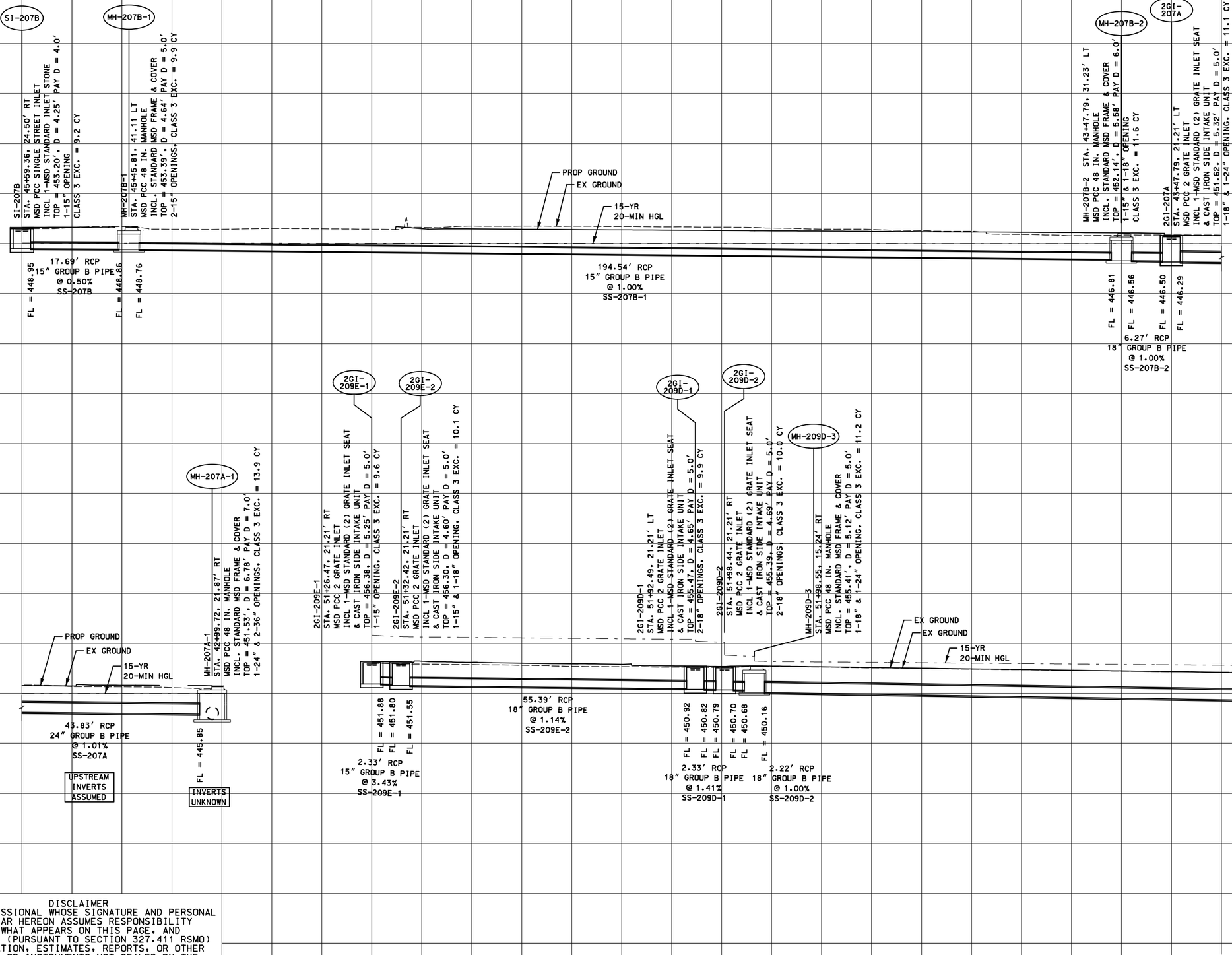
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 54 OF 92

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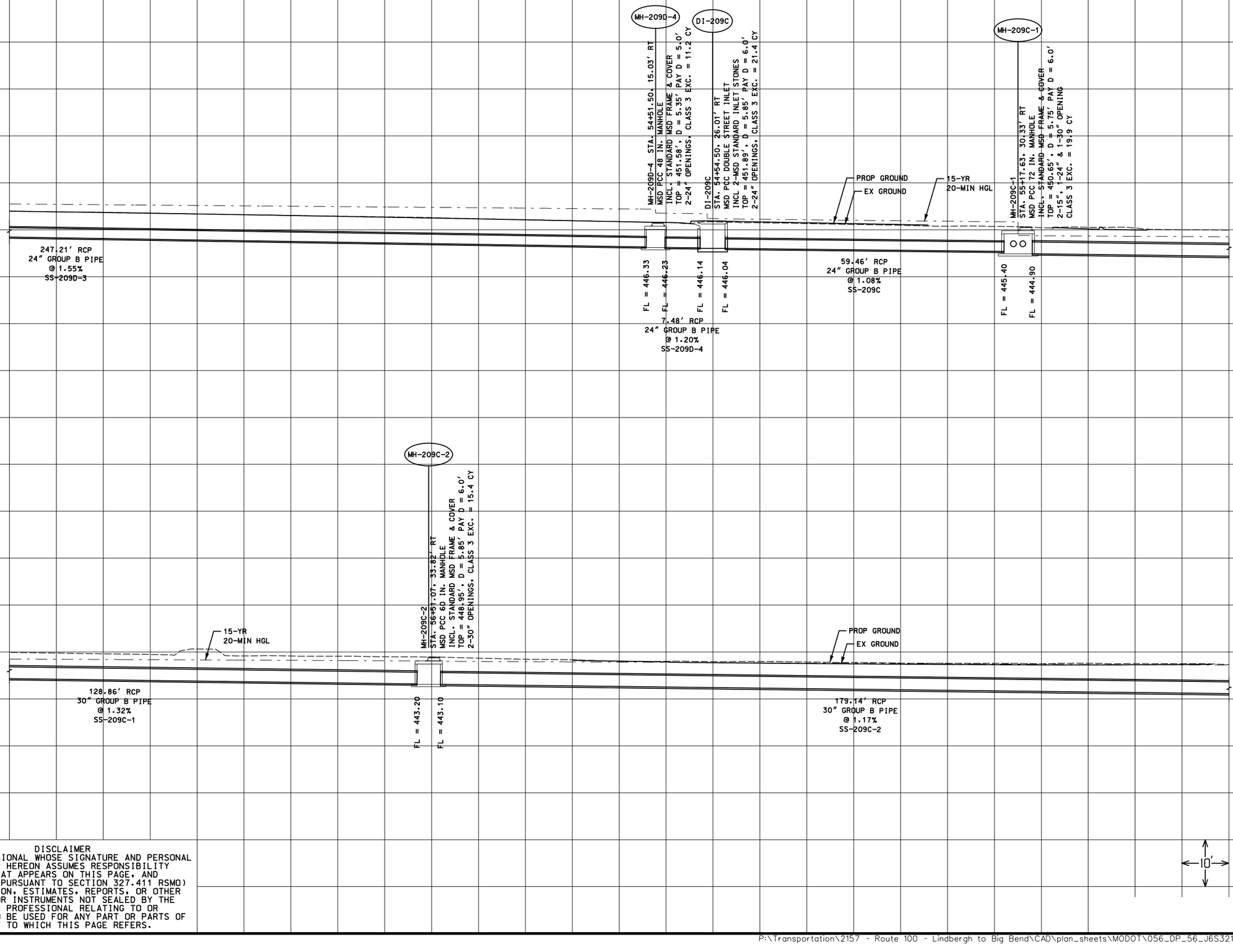
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 55 OF 92

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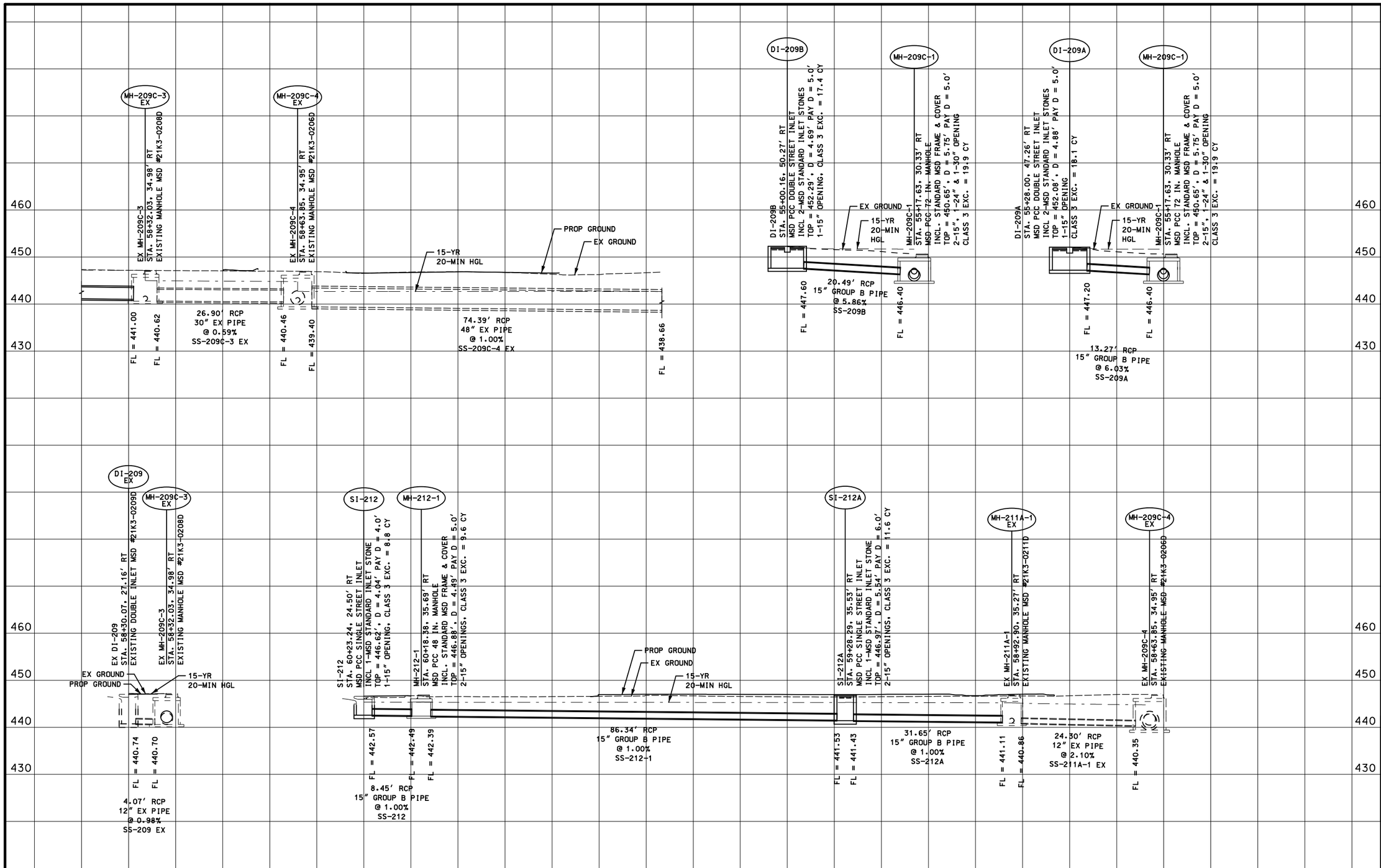
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 56 OF 92

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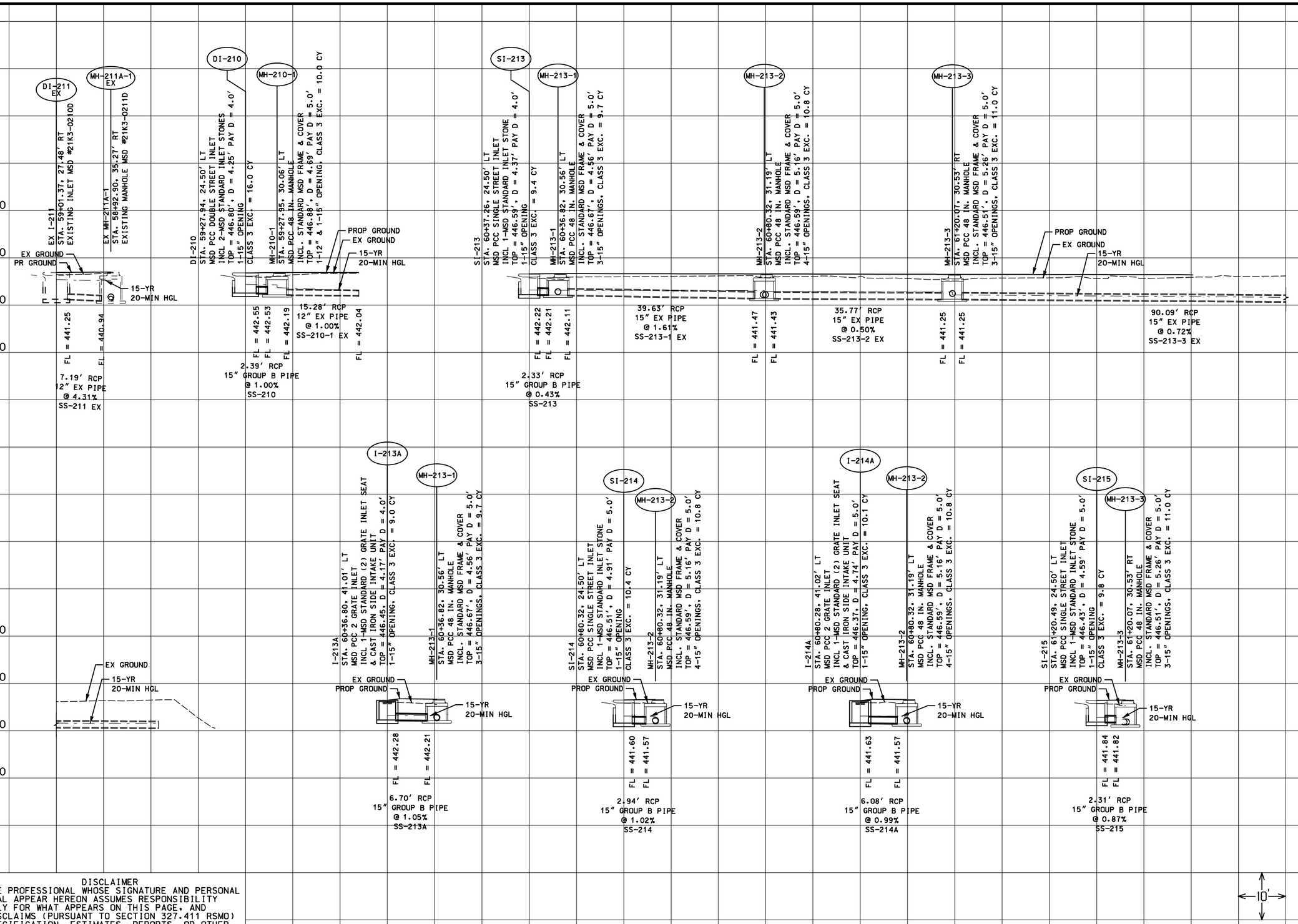
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 57 OF 92

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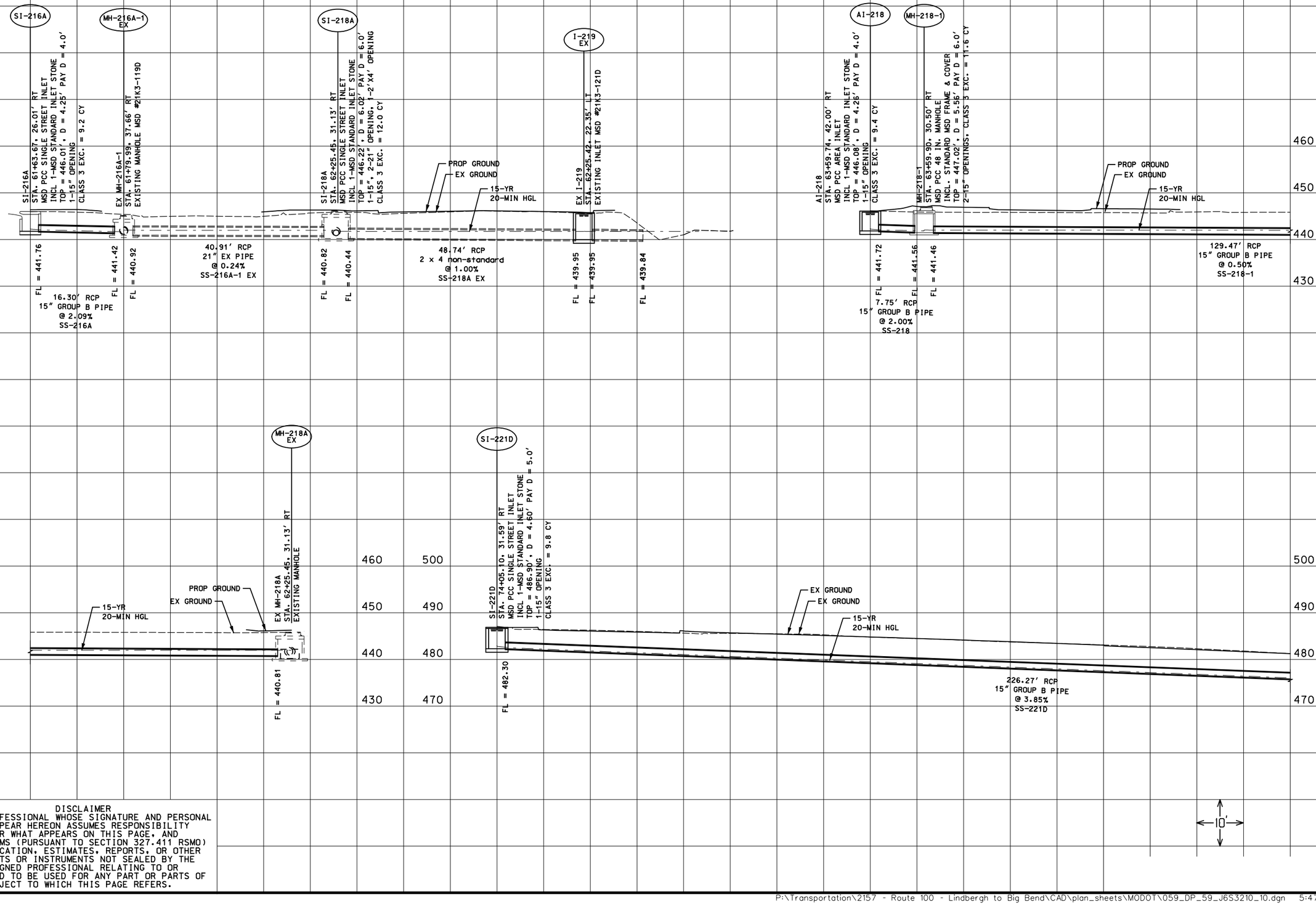
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 58 OF 92

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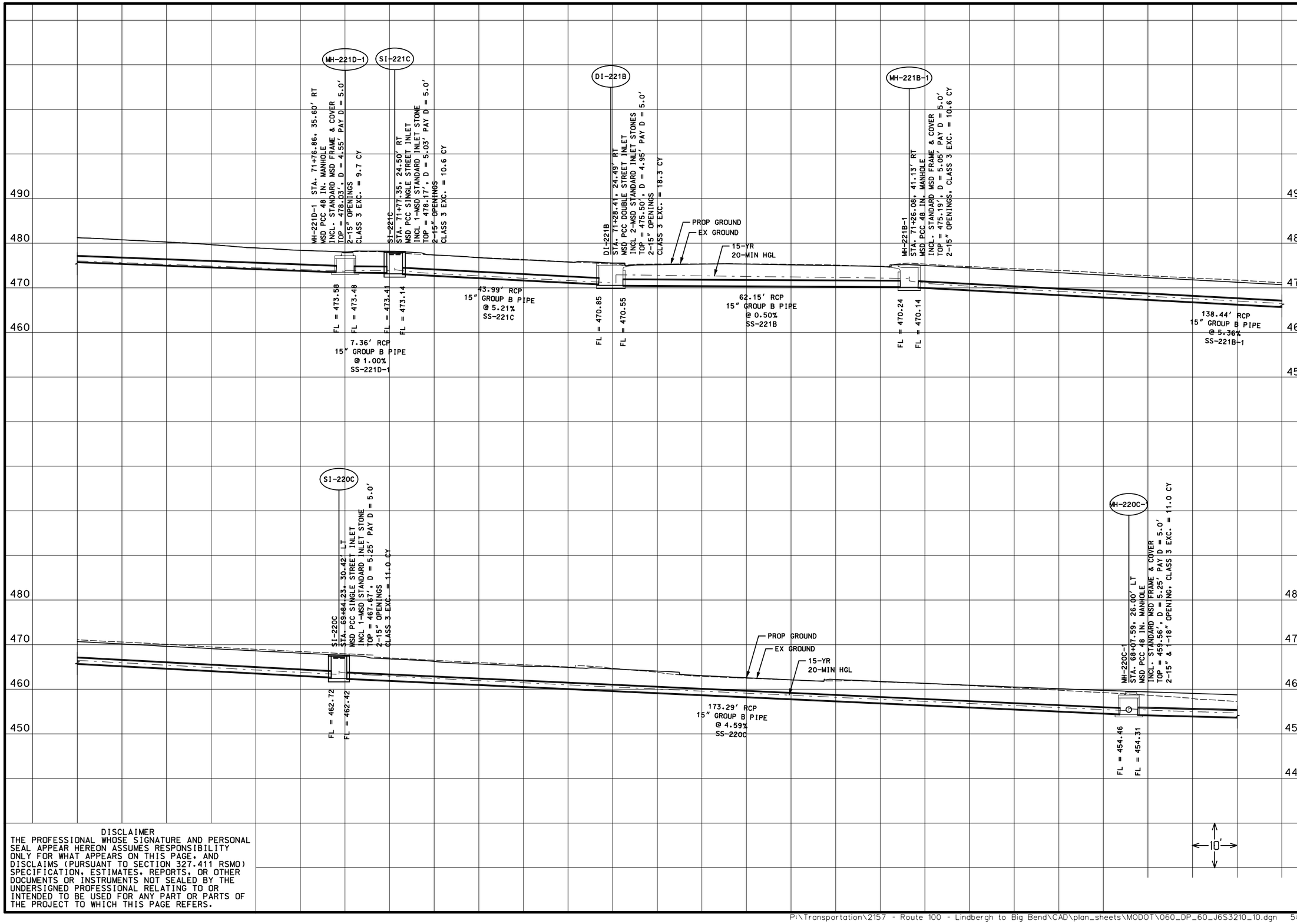
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 59 OF 92

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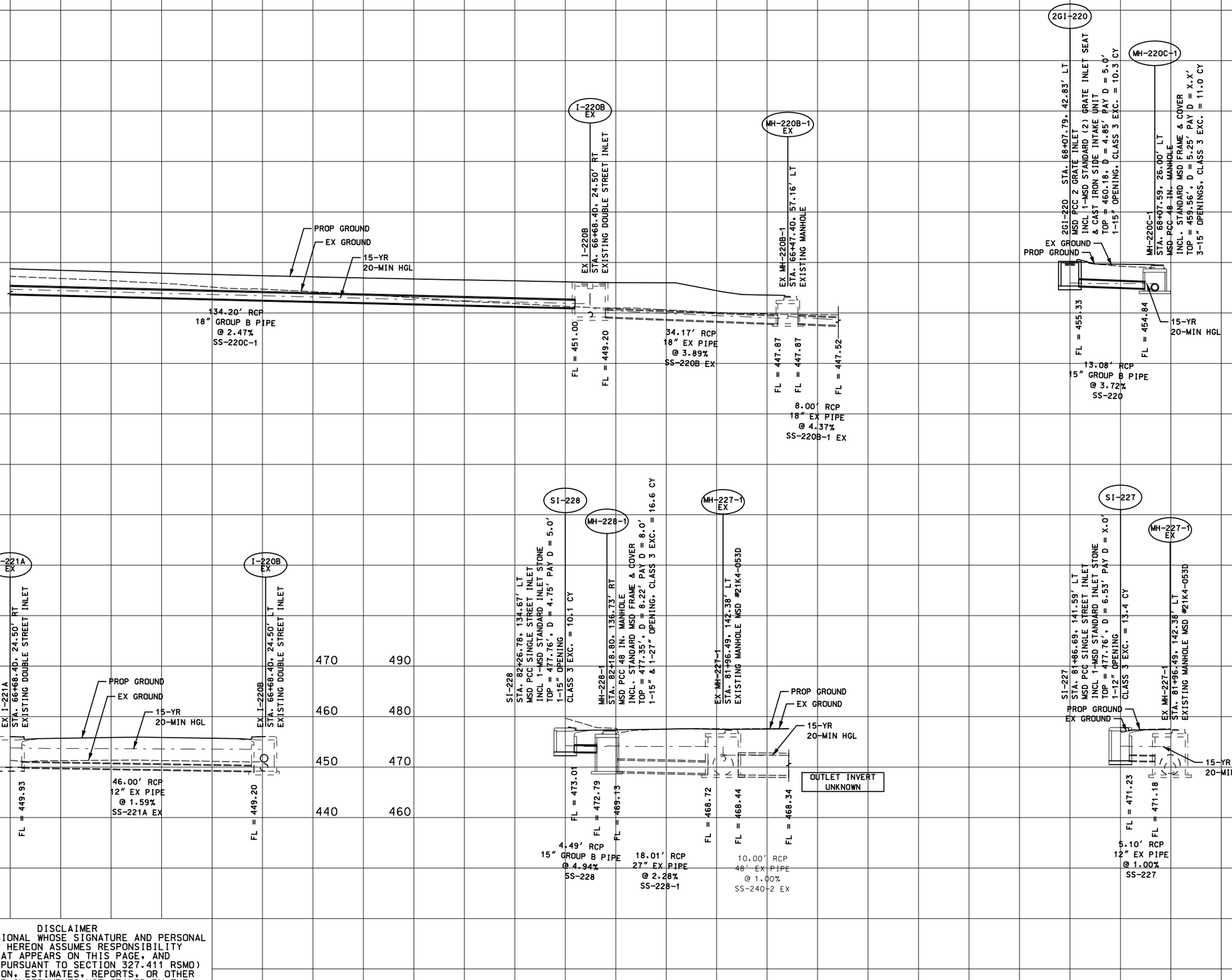
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DRAINAGE PLAN AND PROFILE SHEETS
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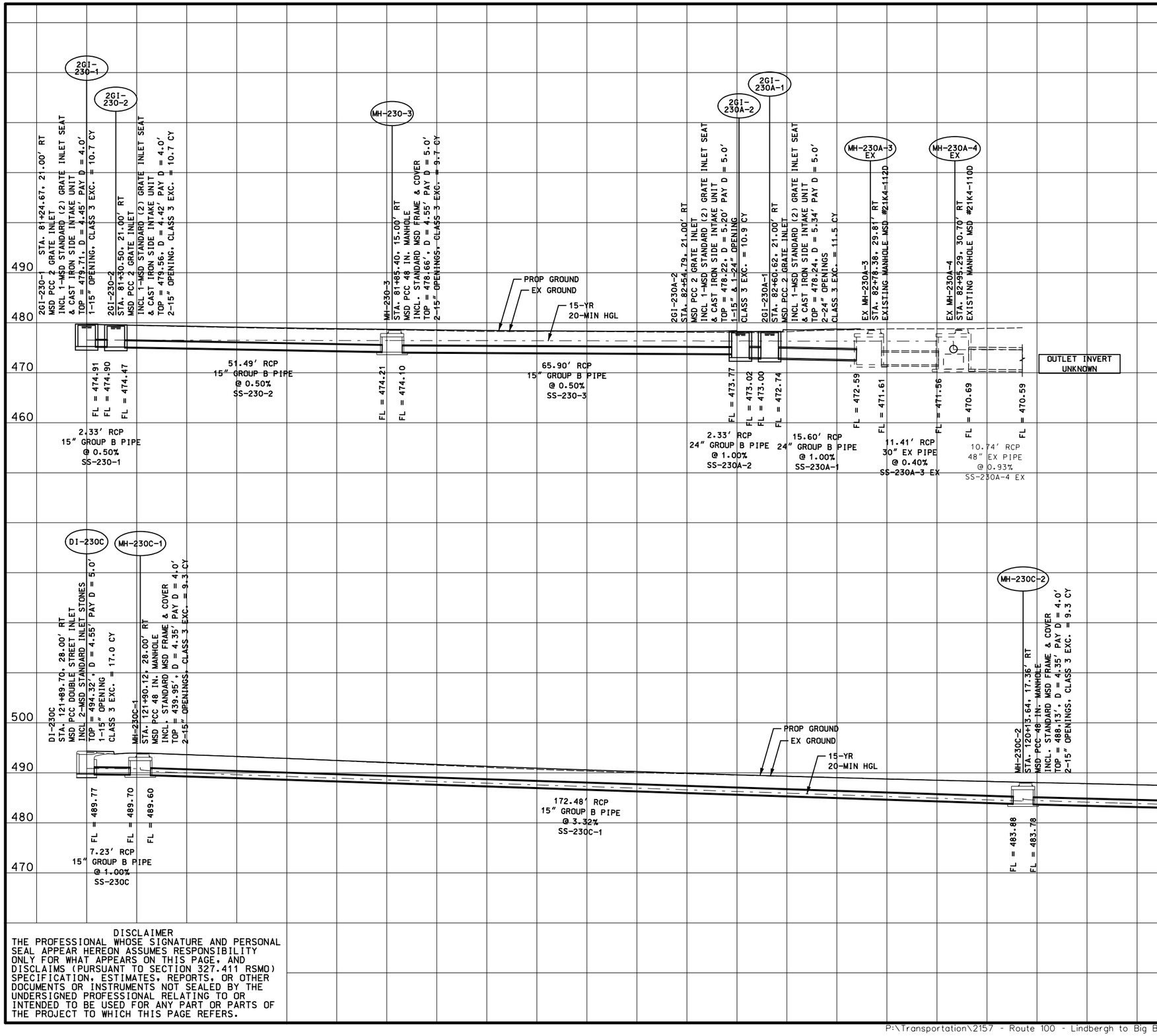
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 61 OF 92

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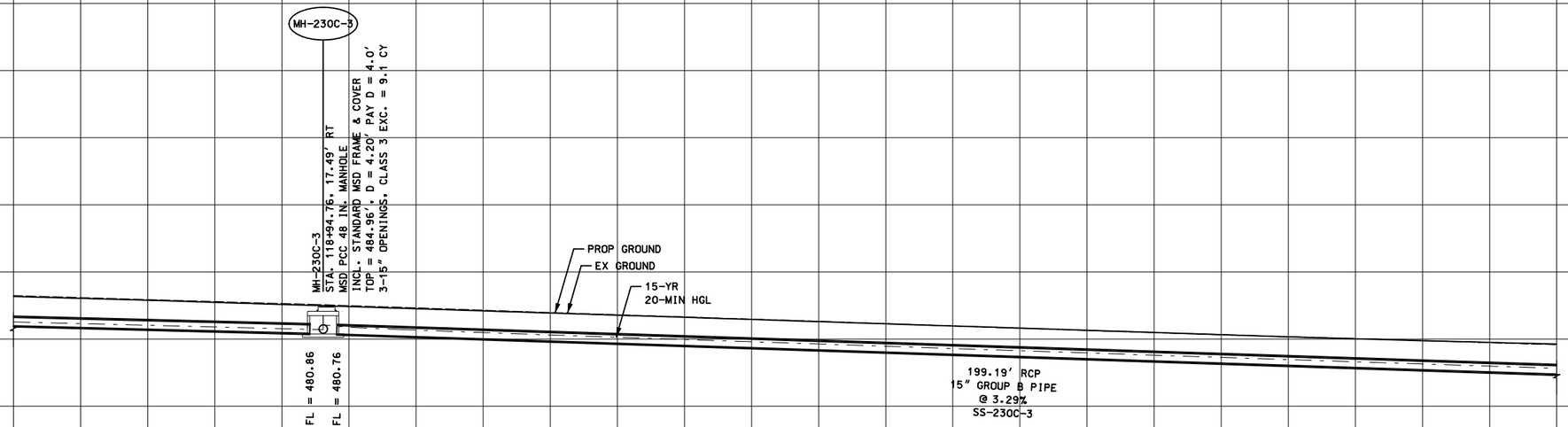
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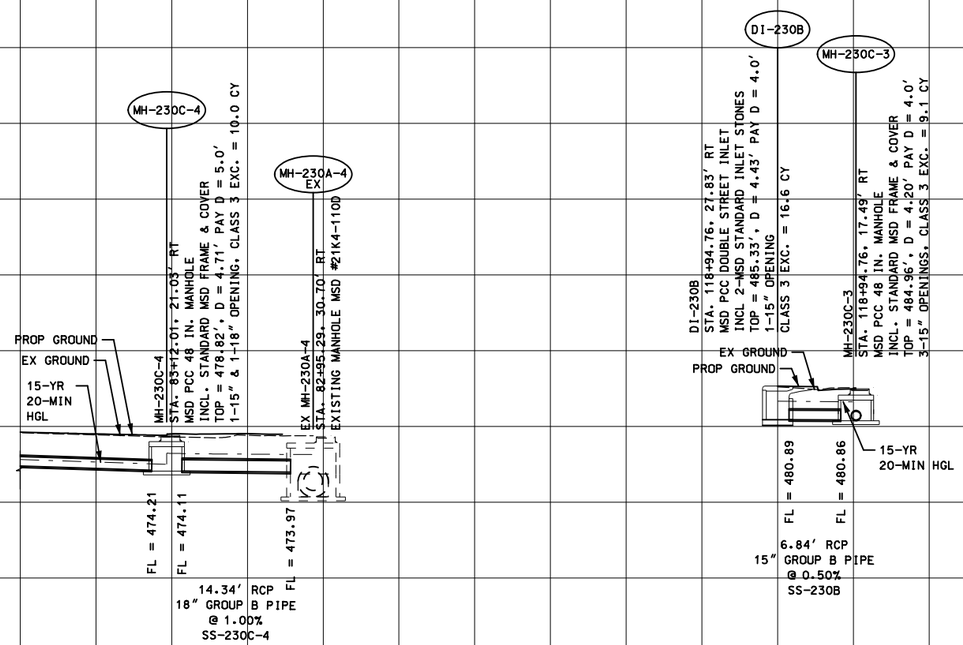
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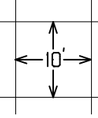
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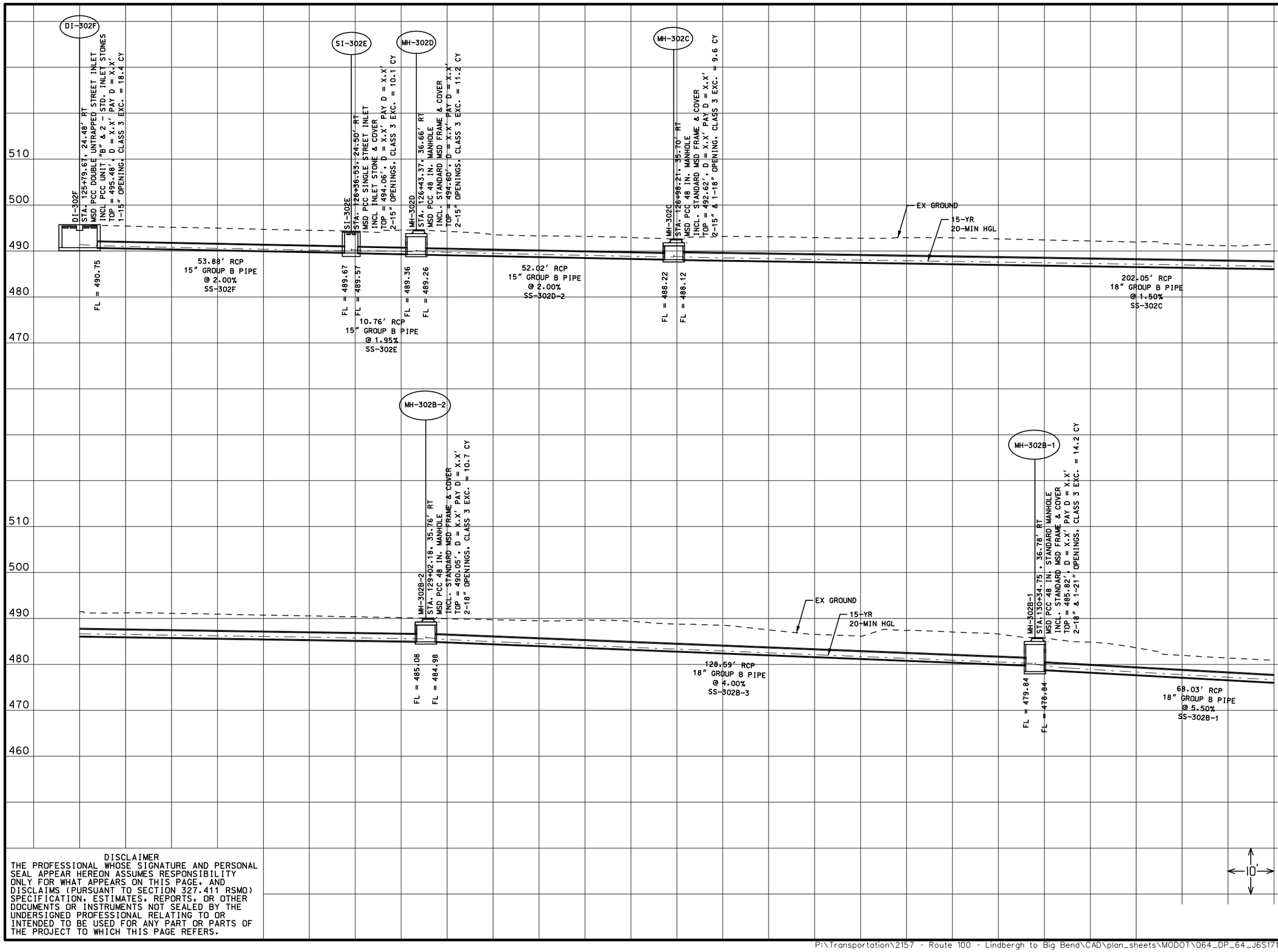
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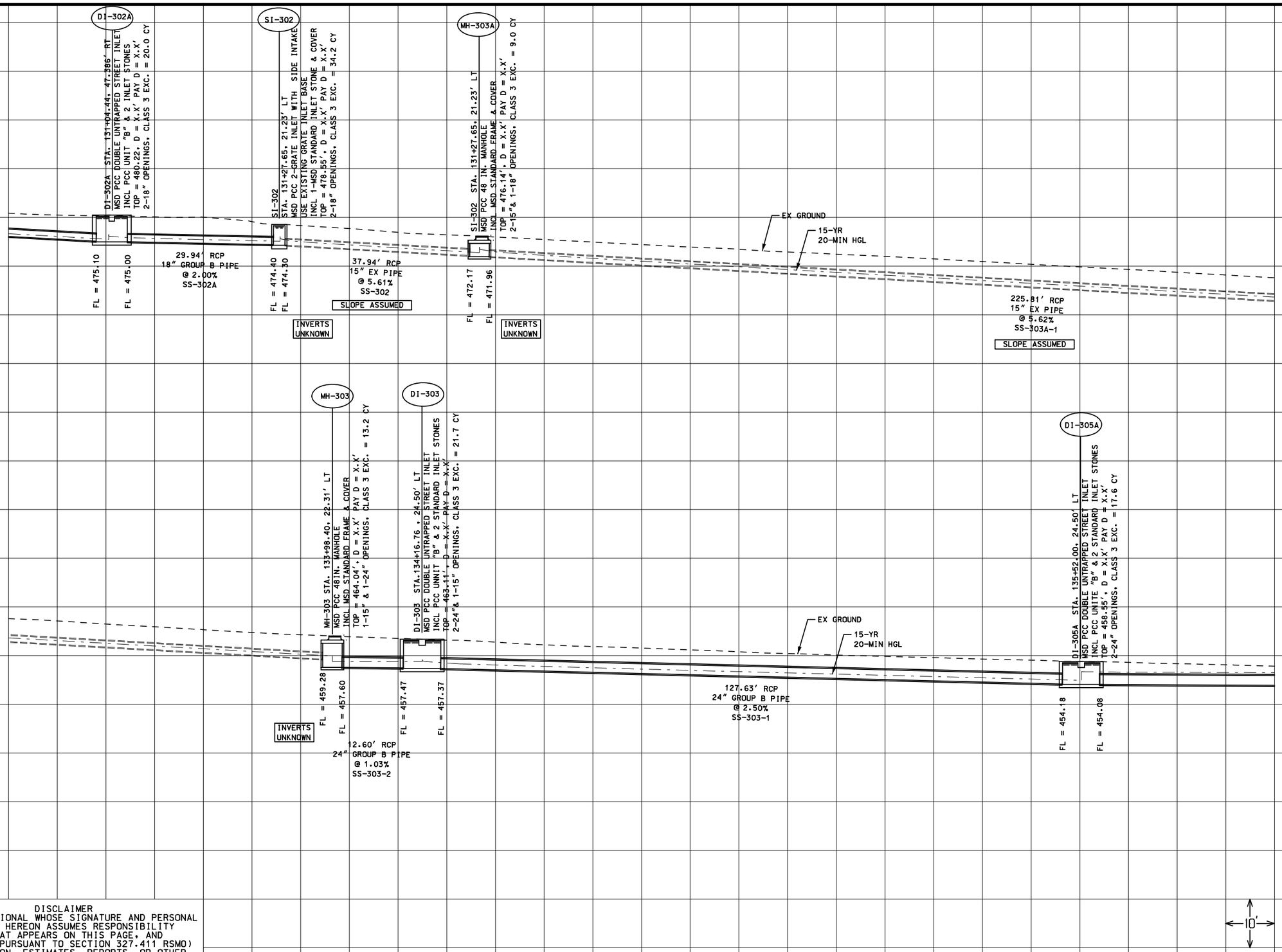
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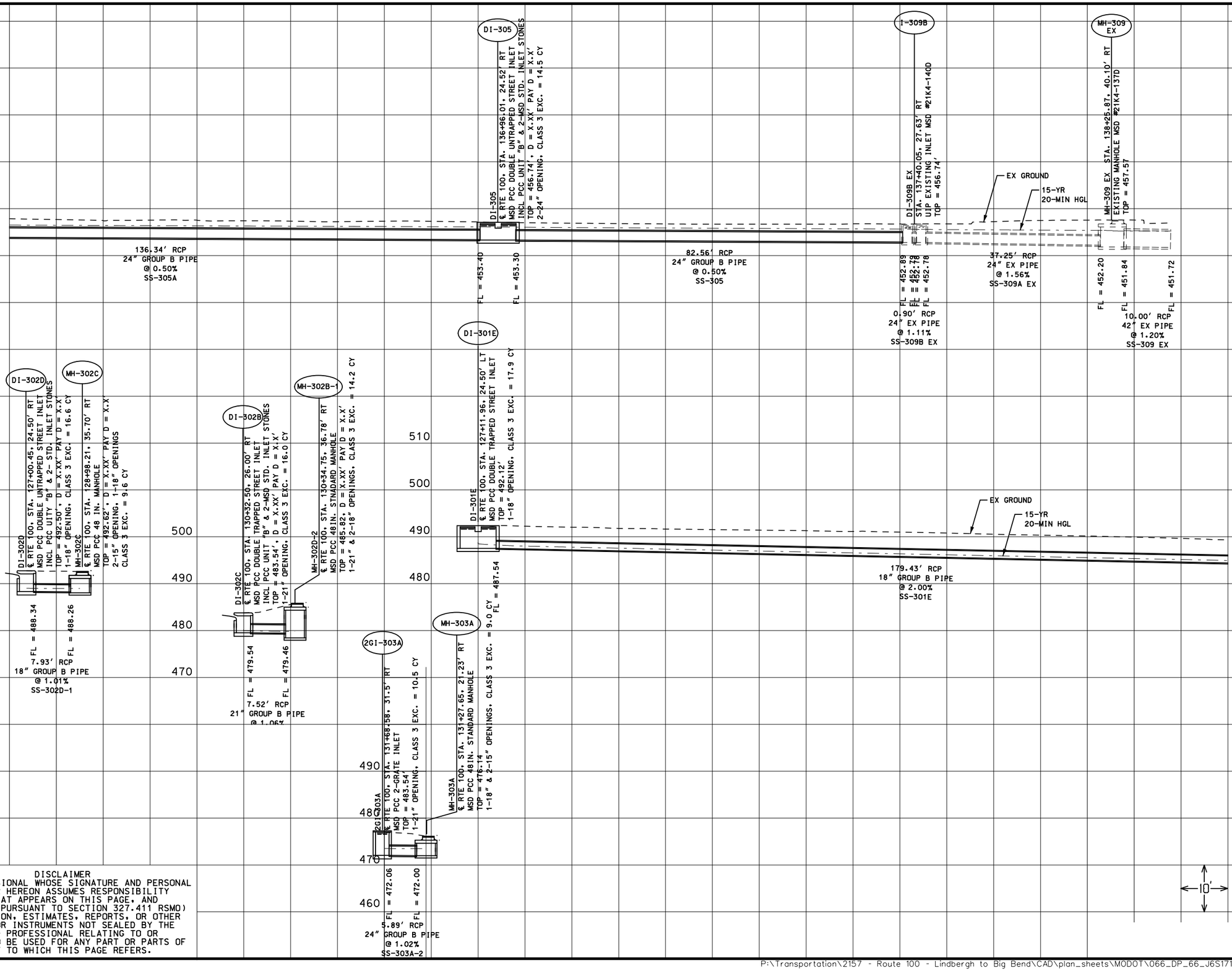
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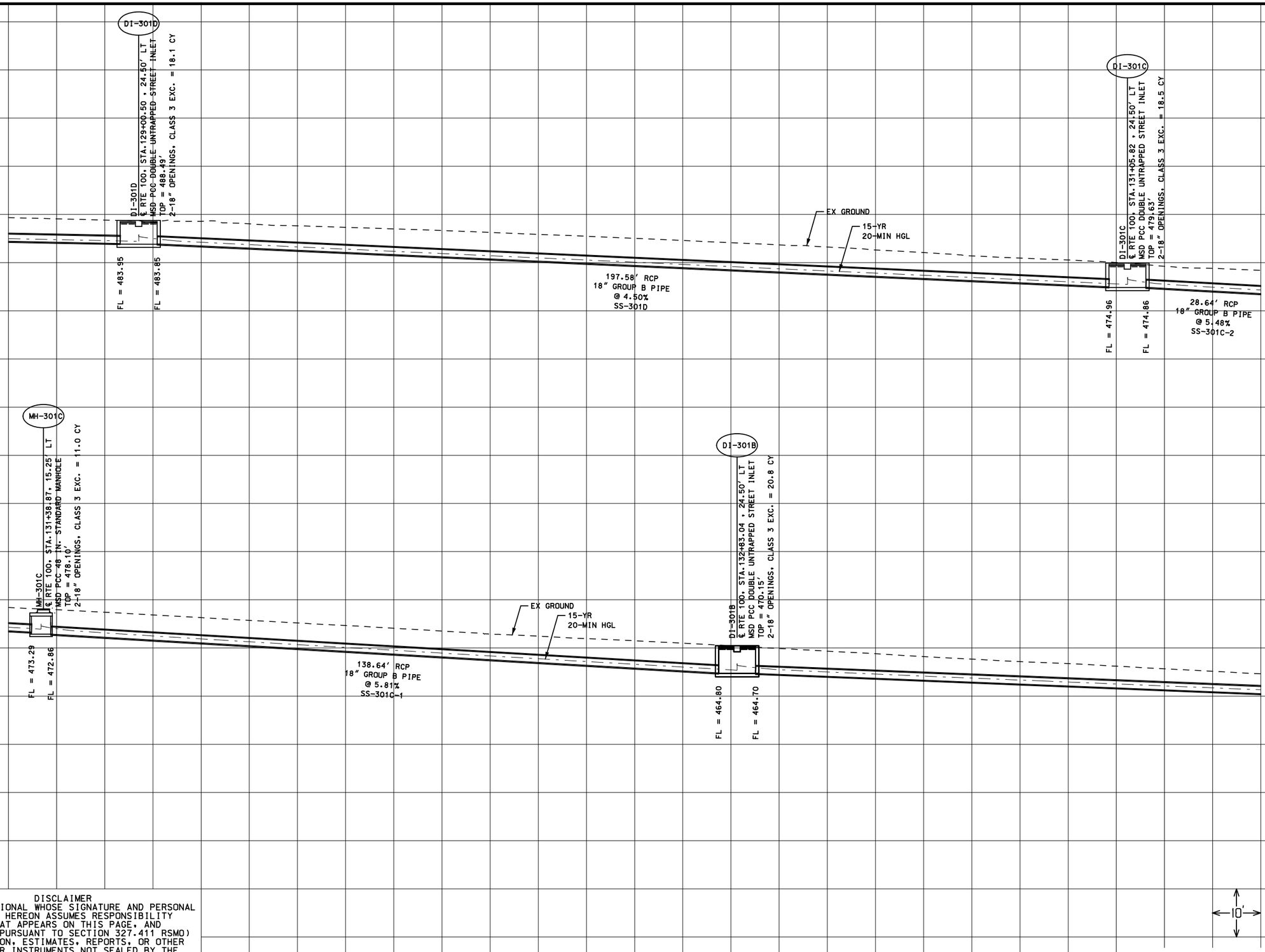
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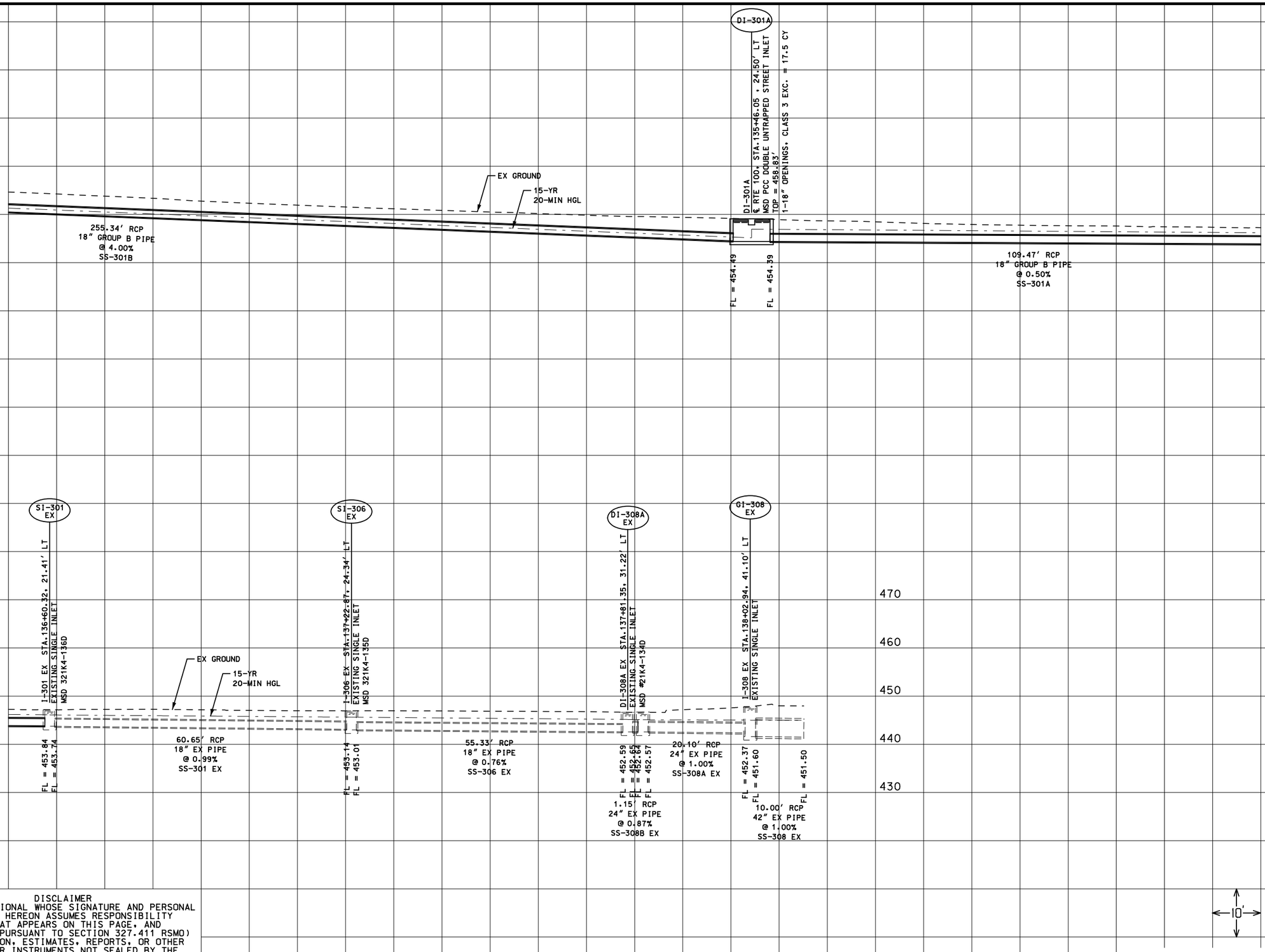
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SI-325

SI-325 STA.152+12.43 , 33.01' LT
MSD PCC SINGLE STREET INLET
TOP = 502.75'
2-30" OPENING, CLASS 3 EXC. = 20.9 CY

MH-325 EX

MH-325 EX STA. 151+99.25, 34.14' LT
EXISTING MANHOLE

MH-323C EX

MH-123C EX STA.151+41.75 , 31.36' LT
EXISTING MANHOLE

EX GROUND

15-YR
20-MIN HGL

FL = 497.26

10.71' RCP
30" EX PIPE
@ 2.80%
SS-325-2 EX

FL = 496.96

FL = 496.96

57.46' RCP
30" EX PIPE
@ 5.85%
SS-325-1 EX

FL = 493.60

FL = 493.57

194.71' RCP
30" EX PIPE
@ 4.49%
SS-323-2 EX

510
500
490
480
470

MH-320-1

MH-323-1 STA.149+43.59 , 26.51' LT
MSD PCC 48 IN. STANDARD MANHOLE
TOP = 488.97'
1-30" & 1-36" OPENINGS, CLASS 3 EXC. = 10.7 CY

SI-320C

I-320C STA.148+87.17 , 26.31' LT
MSD PCC SINGLE STREET INLET
TOP = 485.78'
2-36" OPENINGS, CLASS 3 EXC. = 10.0 CY

MH-320-3

MH-320-3 STA.148+52.85 , 26.61' LT
MSD PCC SINGLE STREET INLET
TOP = 484.15'
2-36" & 1-18" OPENINGS, CLASS 3 EXC. = 10.7 CY

EX GROUND

15-YR
20-MIN HGL

FL = 484.83

FL = 484.16

53.06' RCP
36" EX PIPE
@ 5.03%
SS-323-1 EX

FL = 481.49

FL = 481.35

30.80' RCP
36" EX PIPE
@ 5.91%
SS-320C EX

FL = 479.53

FL = 479.33

232.00' RCP
36" EX PIPE
@ 4.91%
SS-320-3 EX

510
500
490
480
470
460

10'

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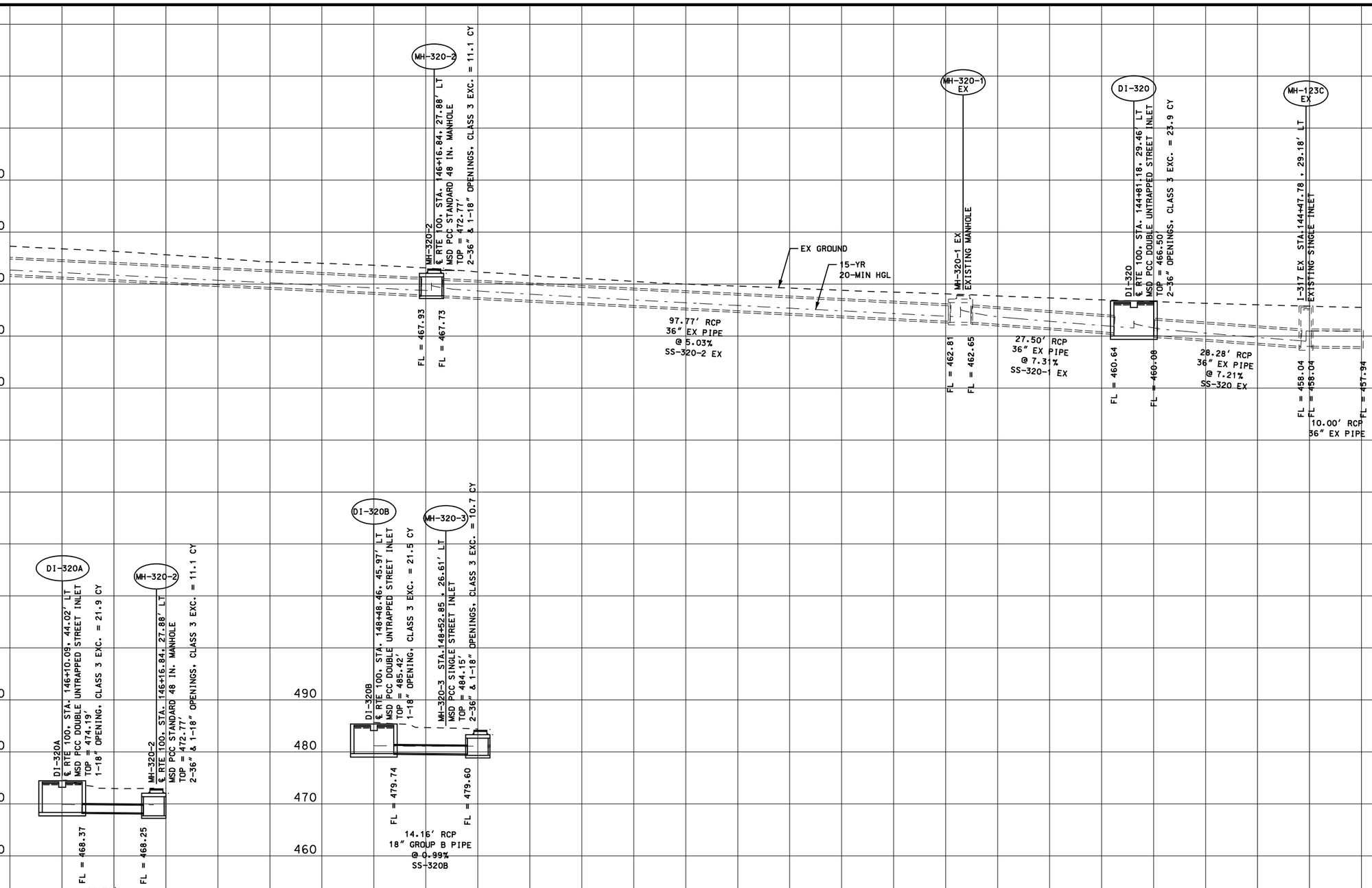
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ROUTE 100
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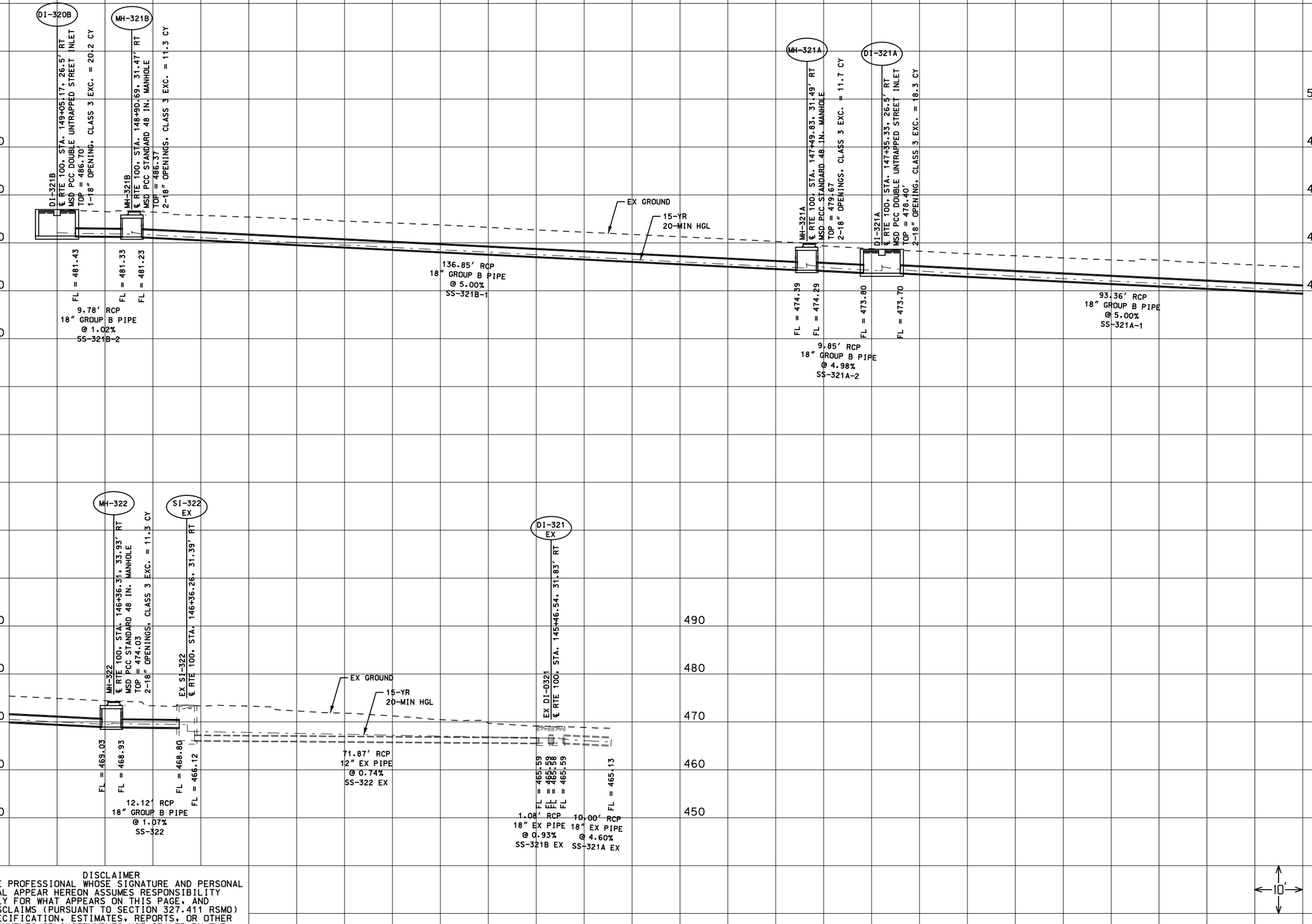
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 70 OF 92

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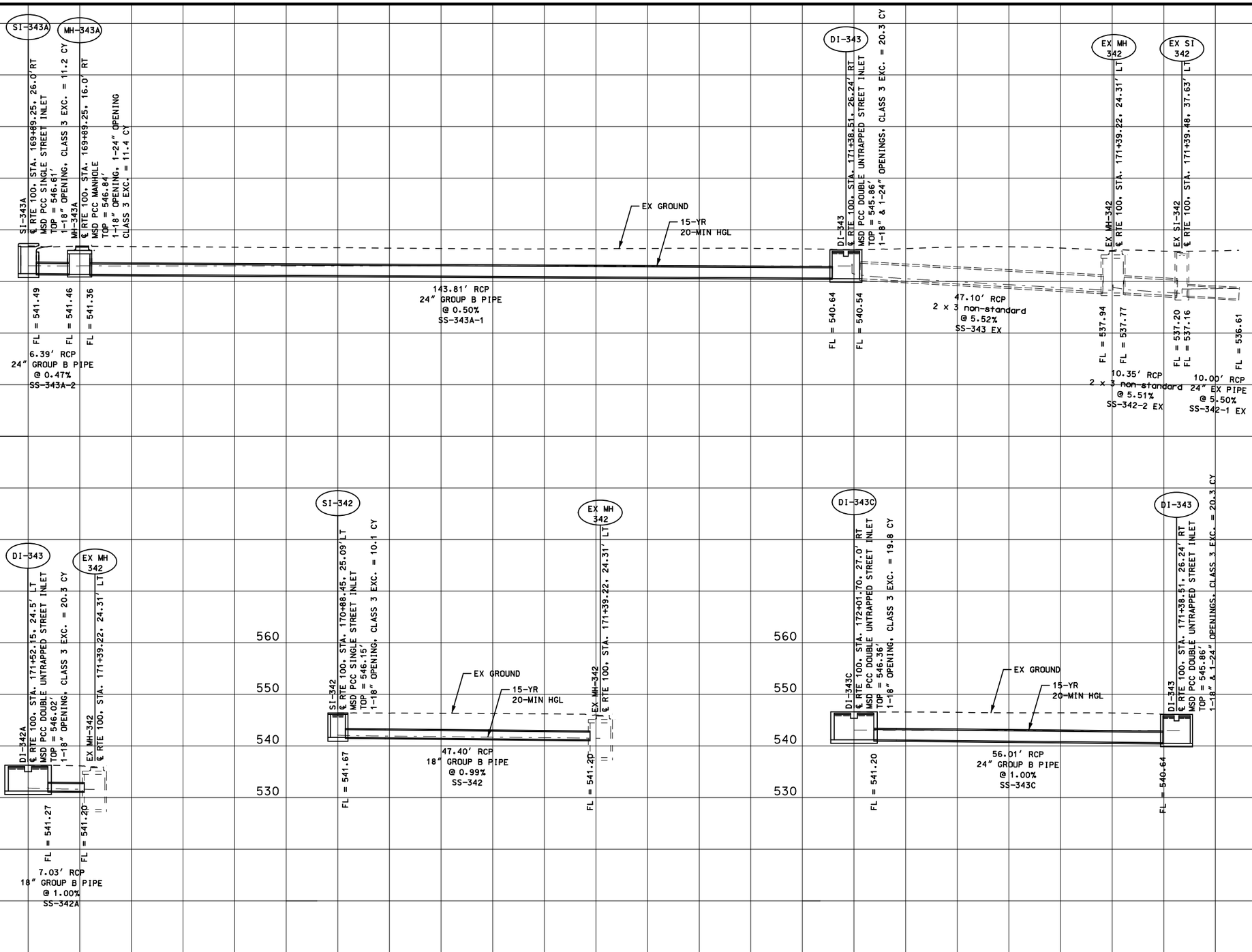
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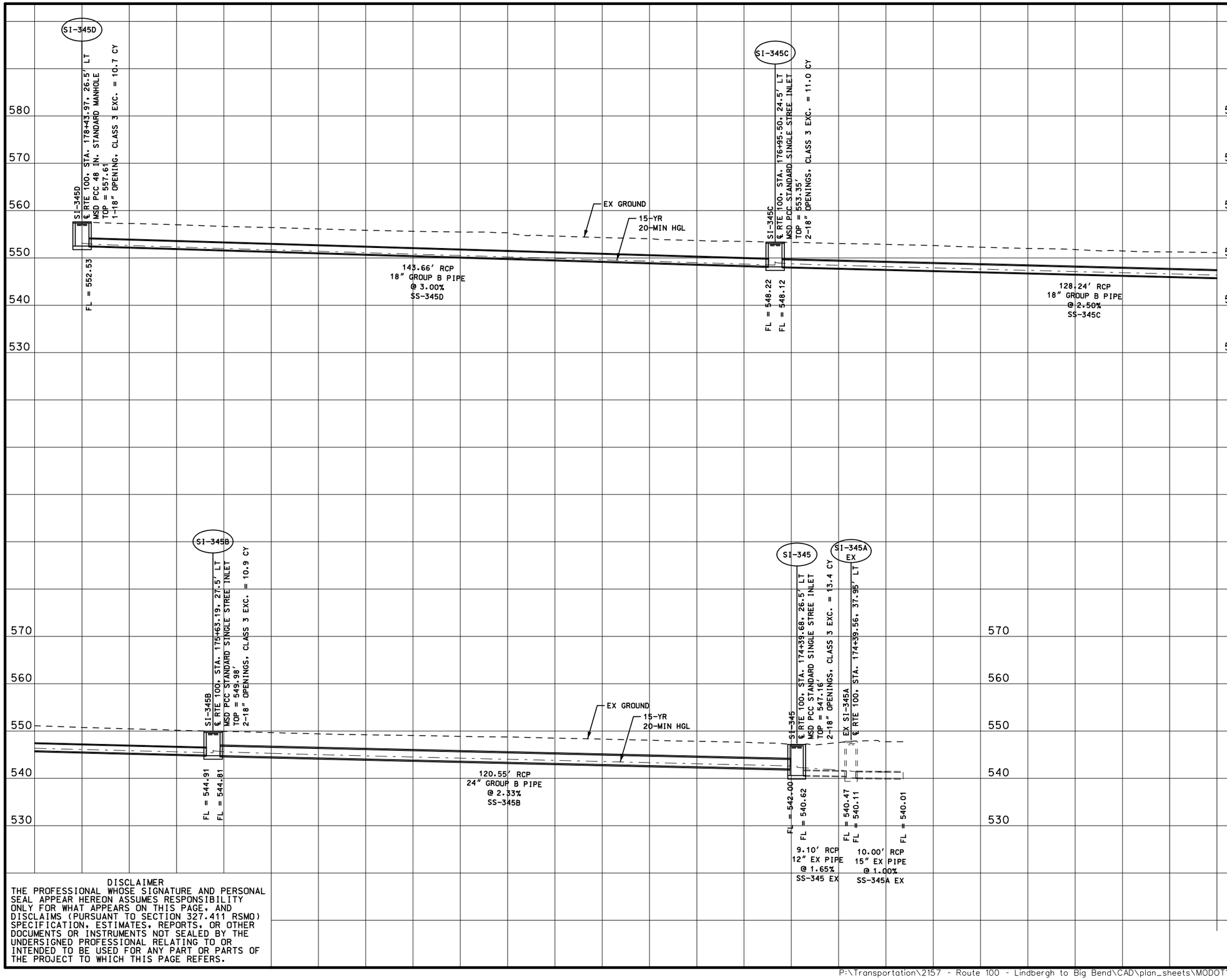
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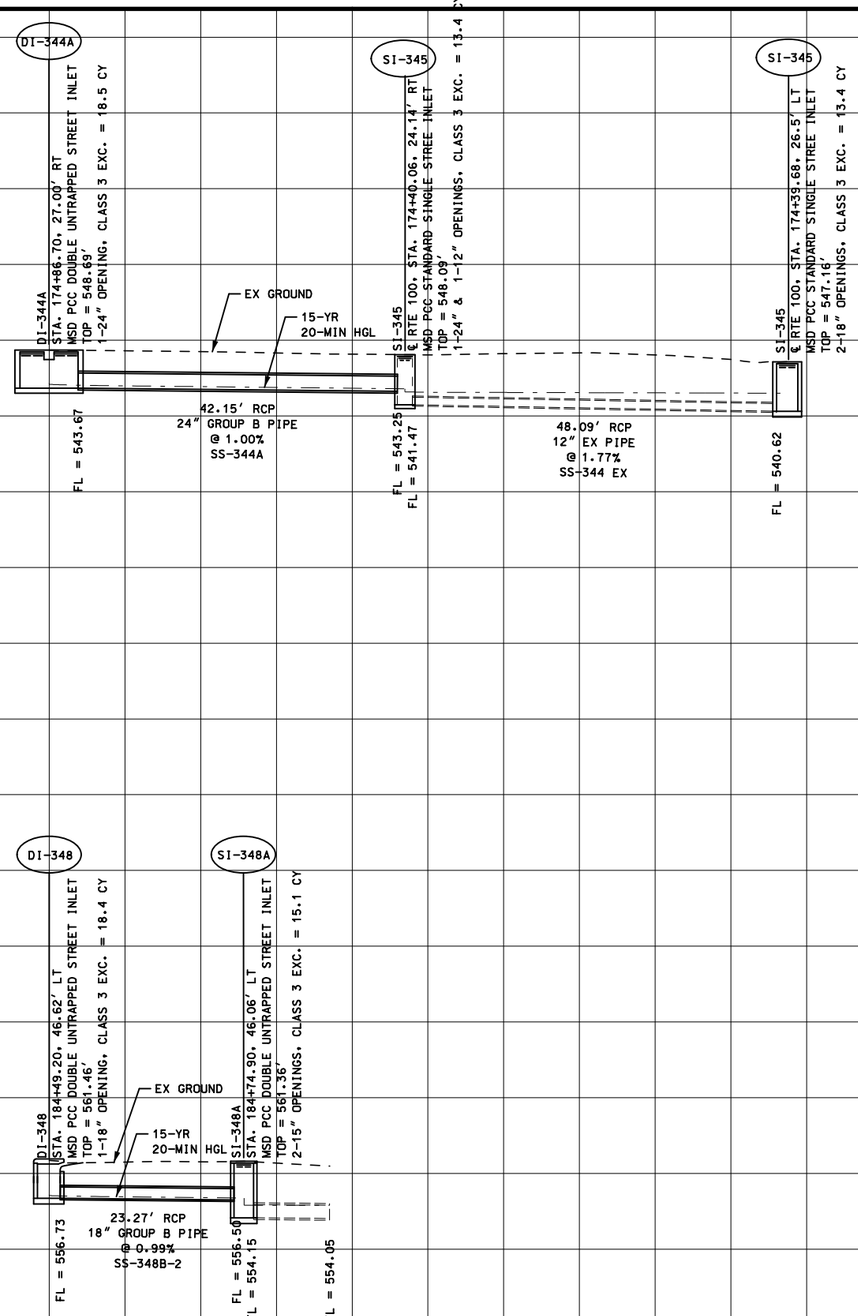
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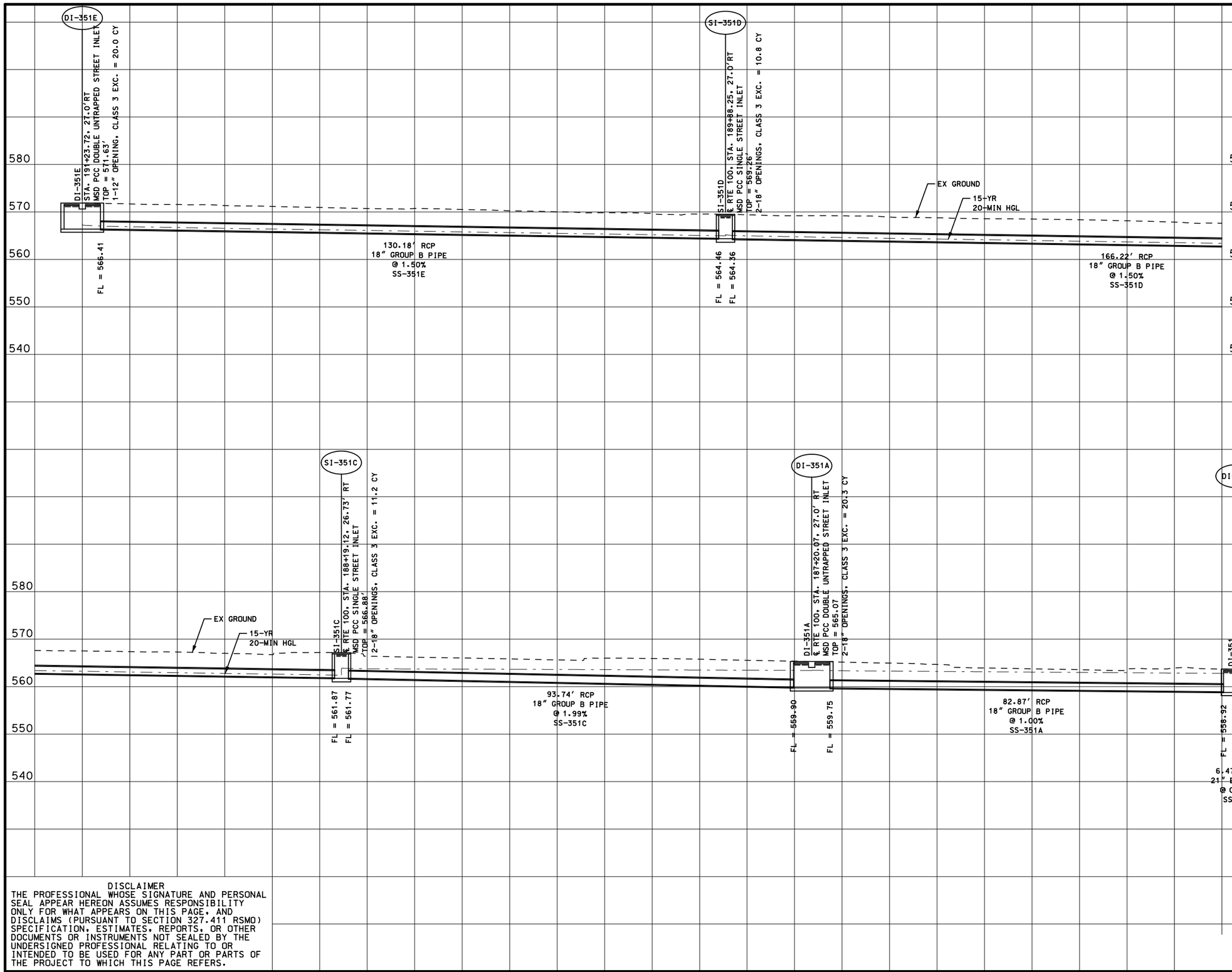
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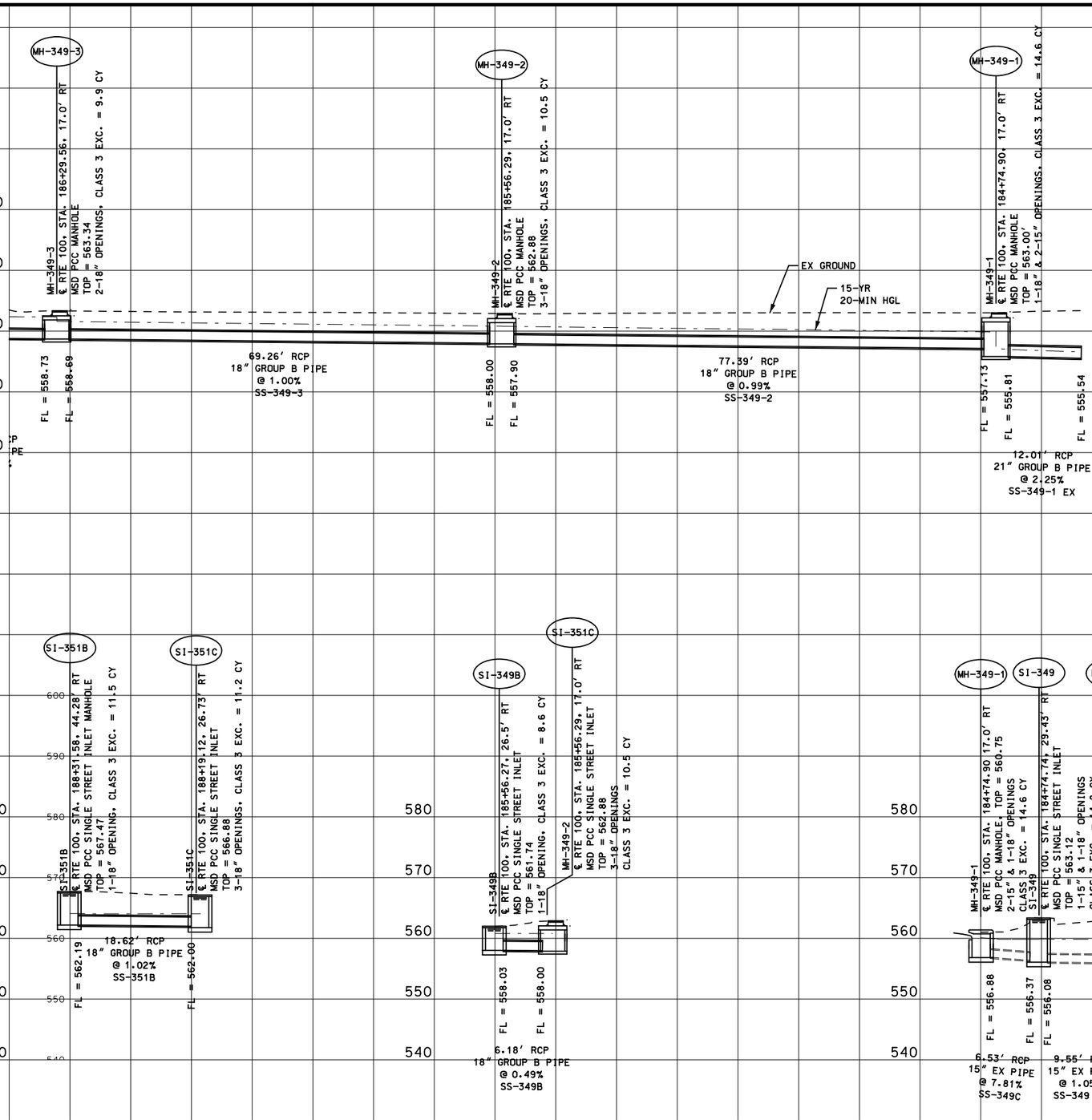
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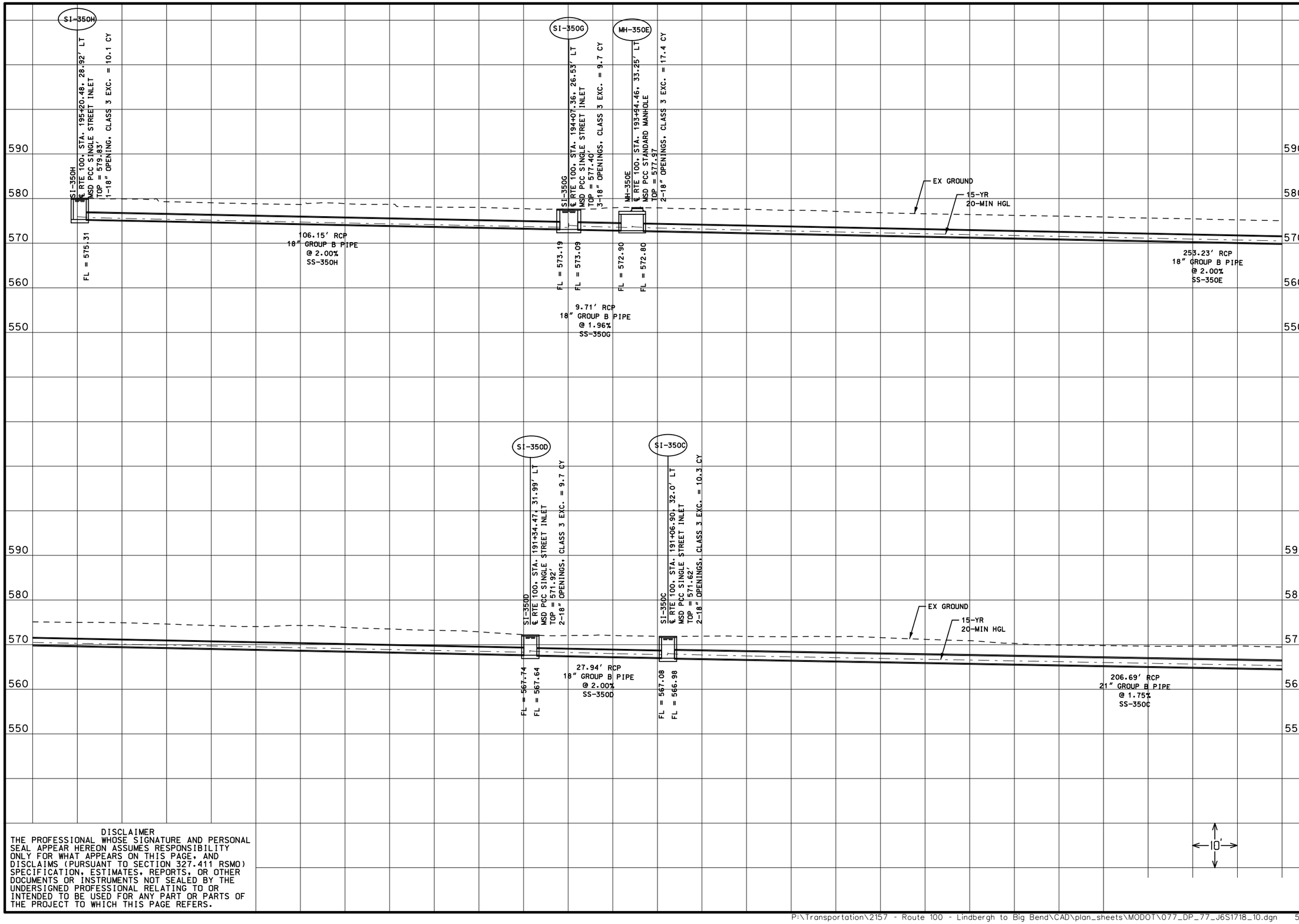
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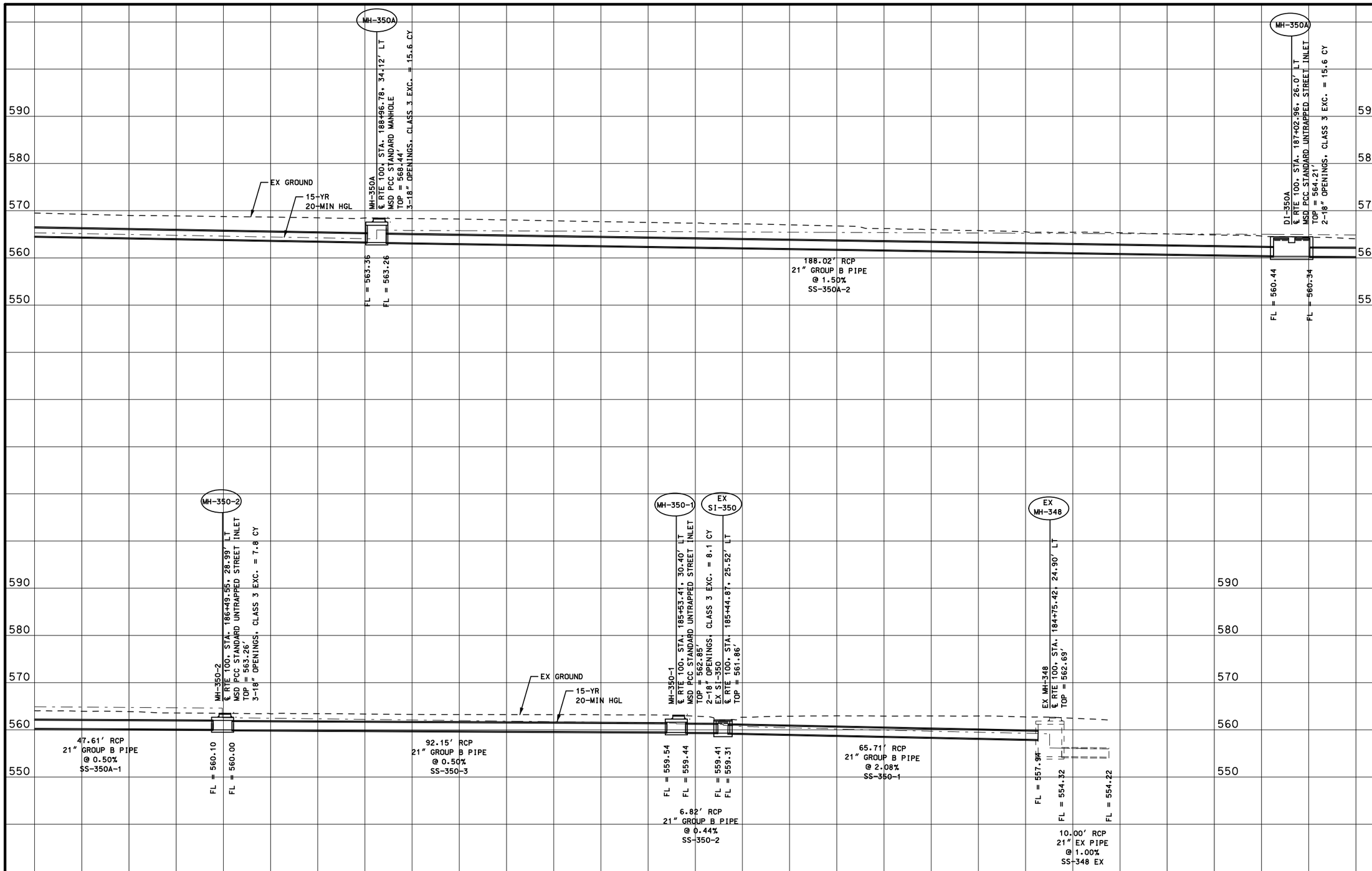
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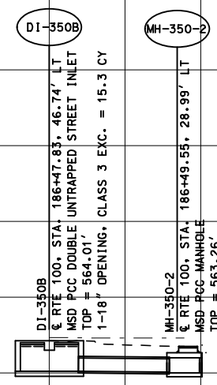
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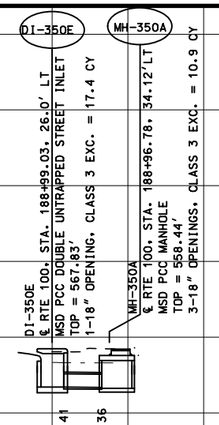
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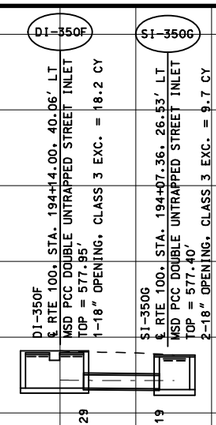
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ROUTE 100
SHEET 78 OF 92

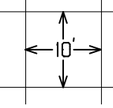
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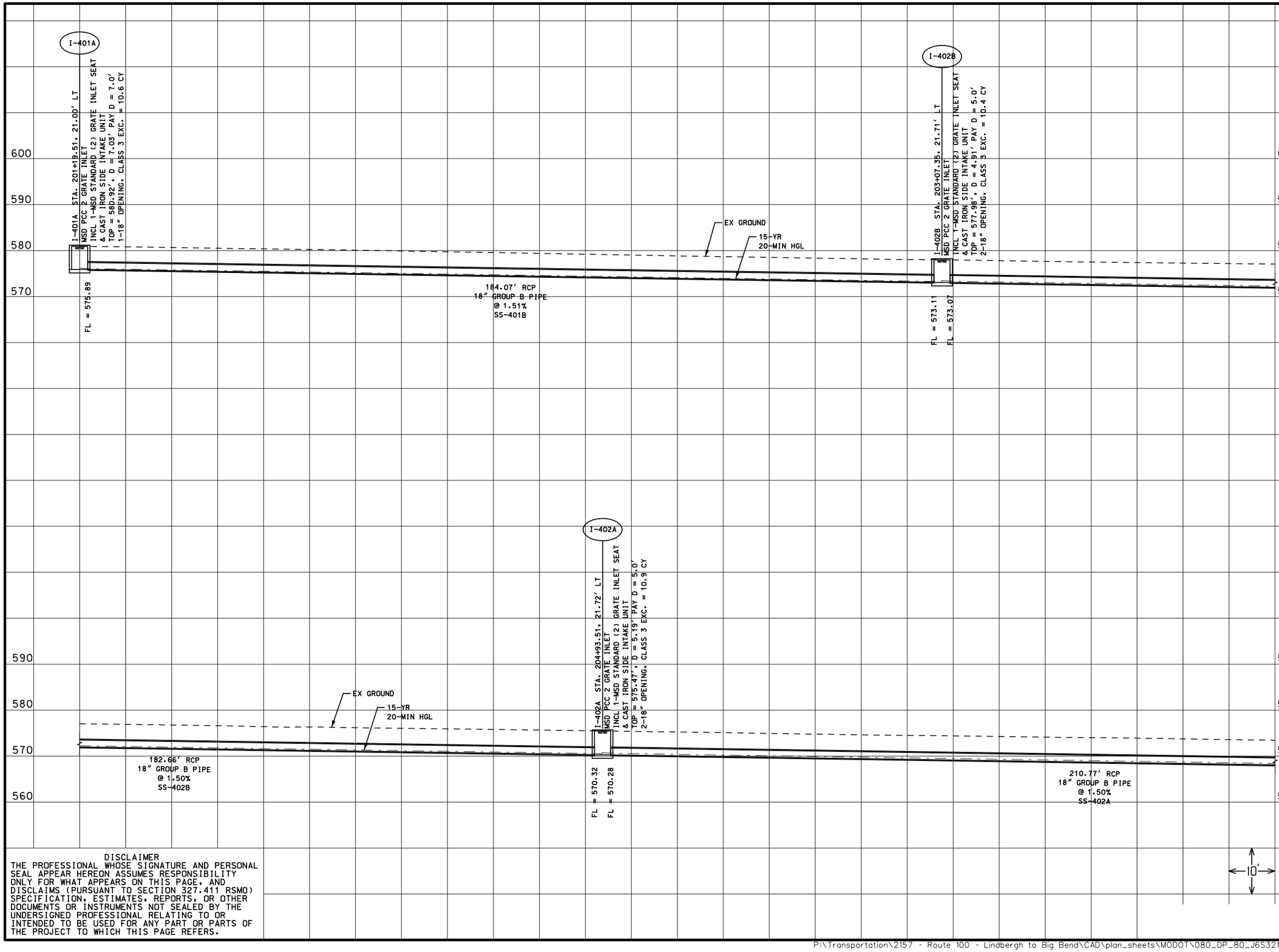
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ROUTE 100
SHEET 79 OF 92

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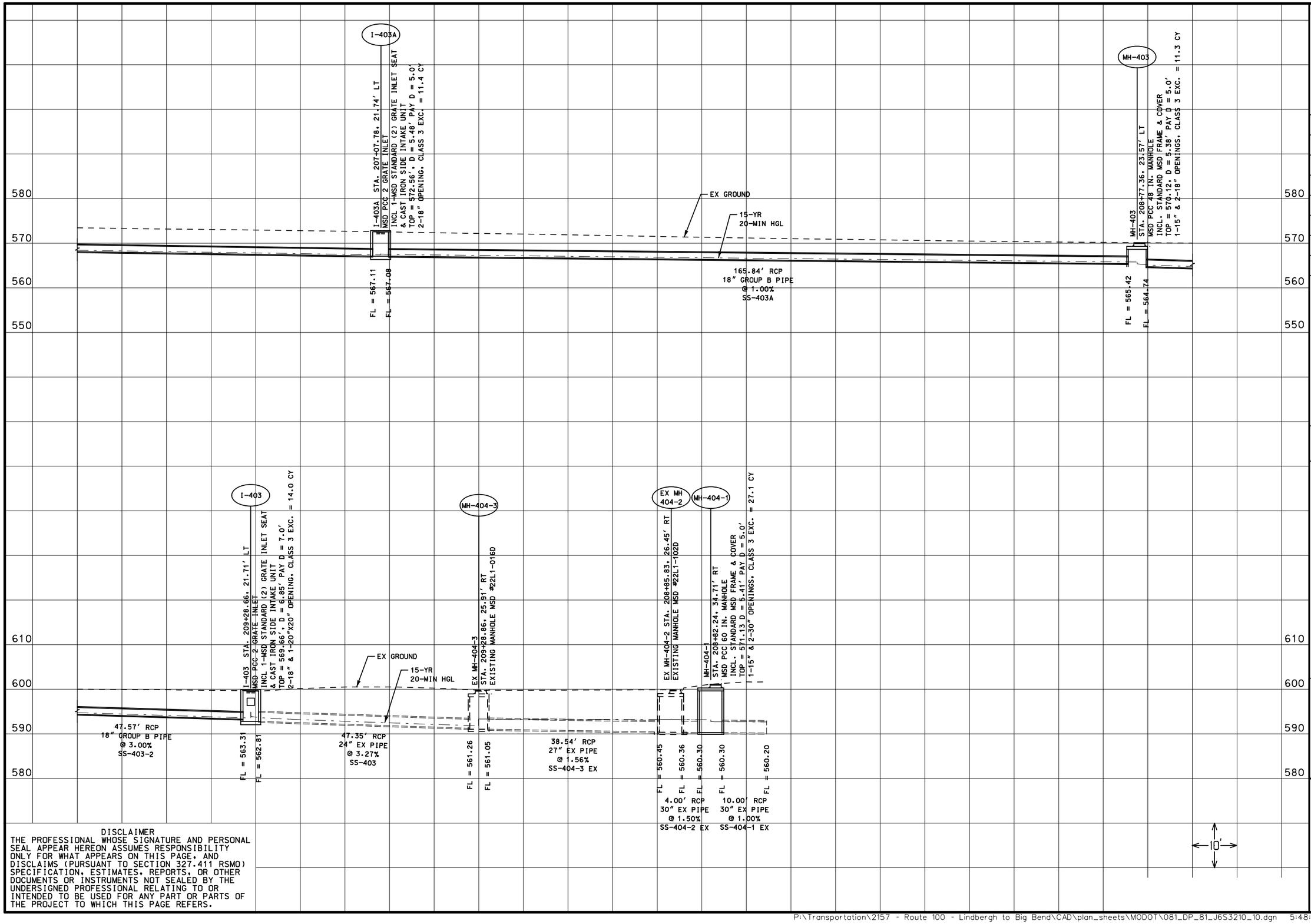
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DESCRIPTION	DATE

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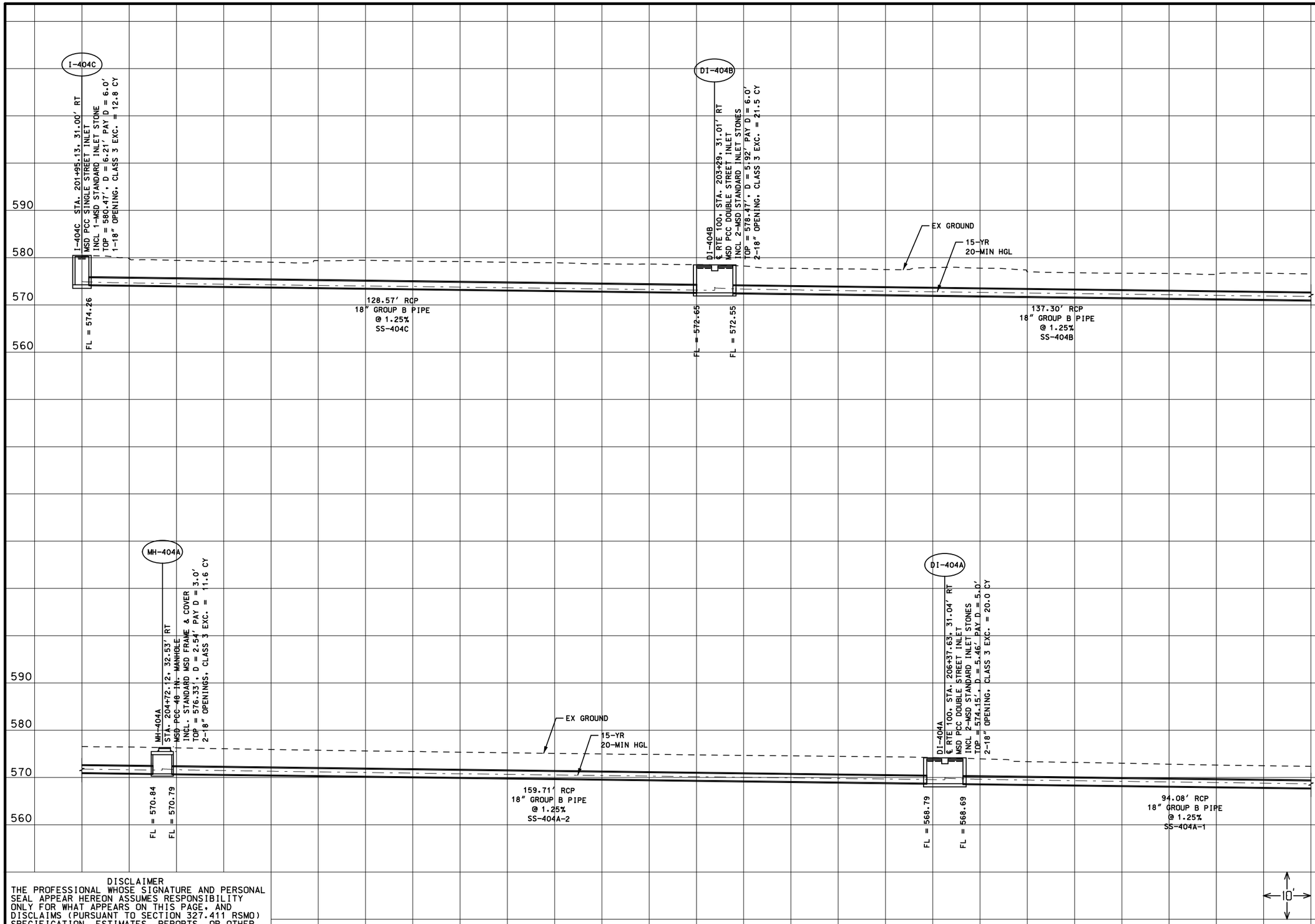
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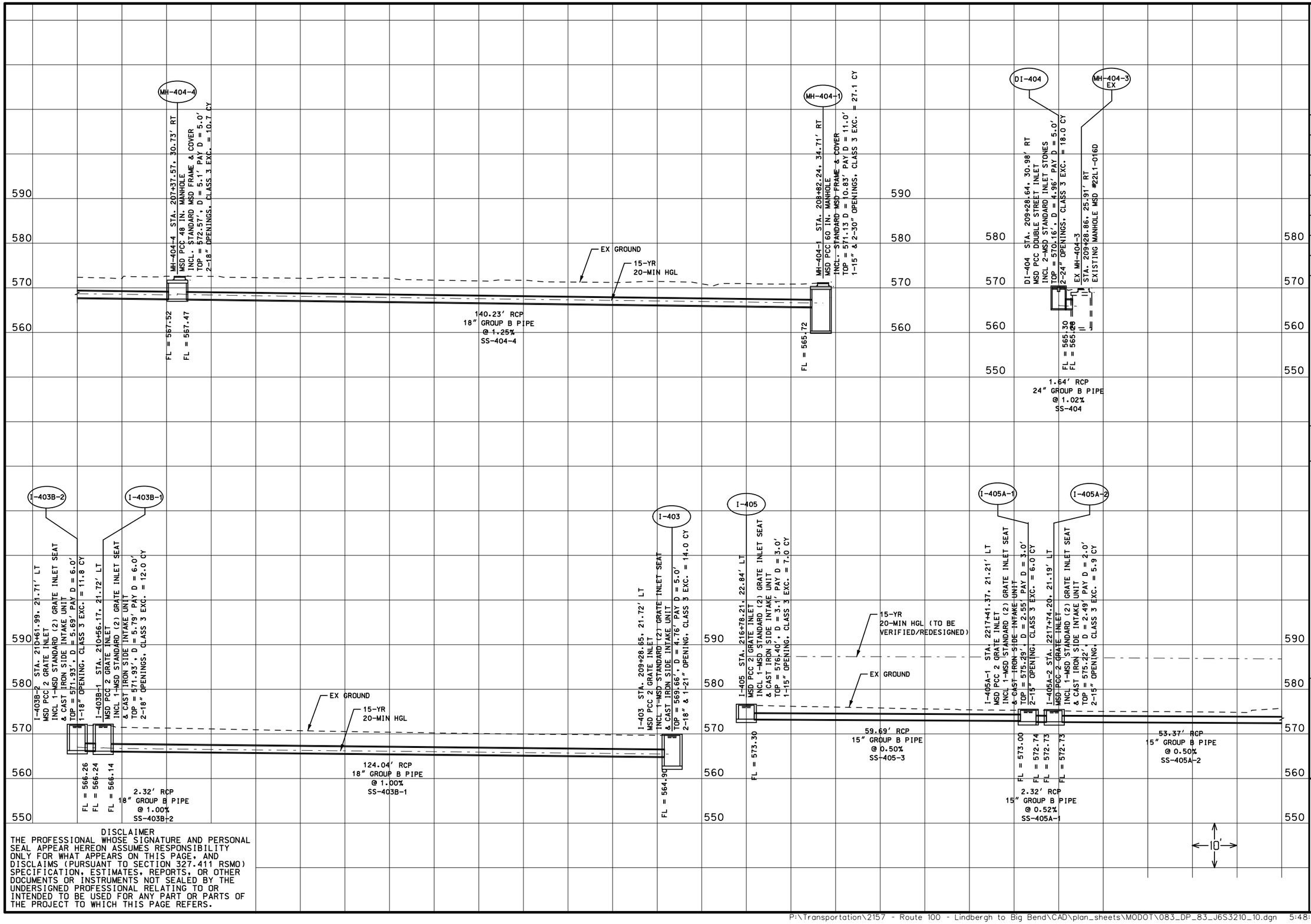
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ROUTE 100
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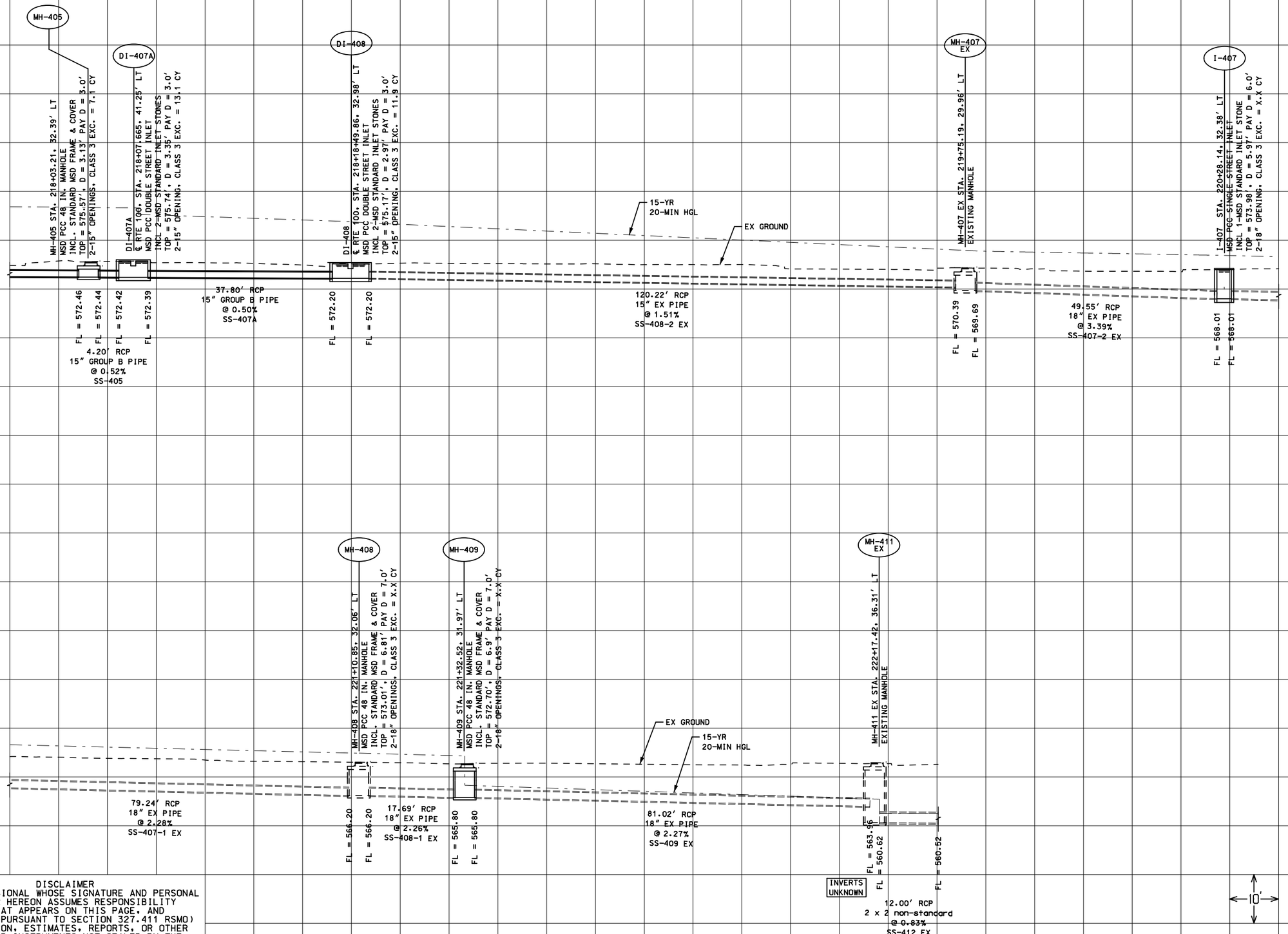
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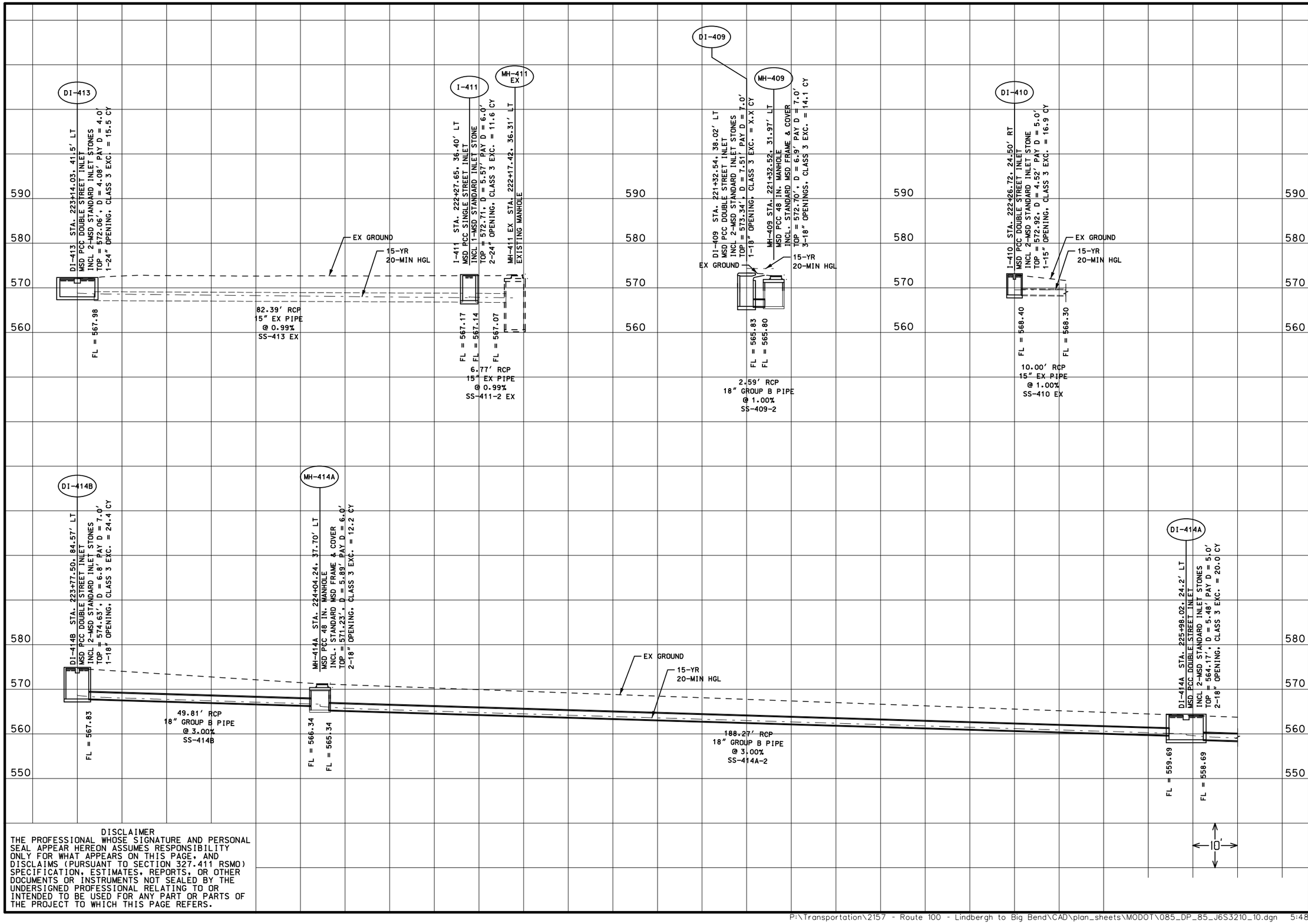
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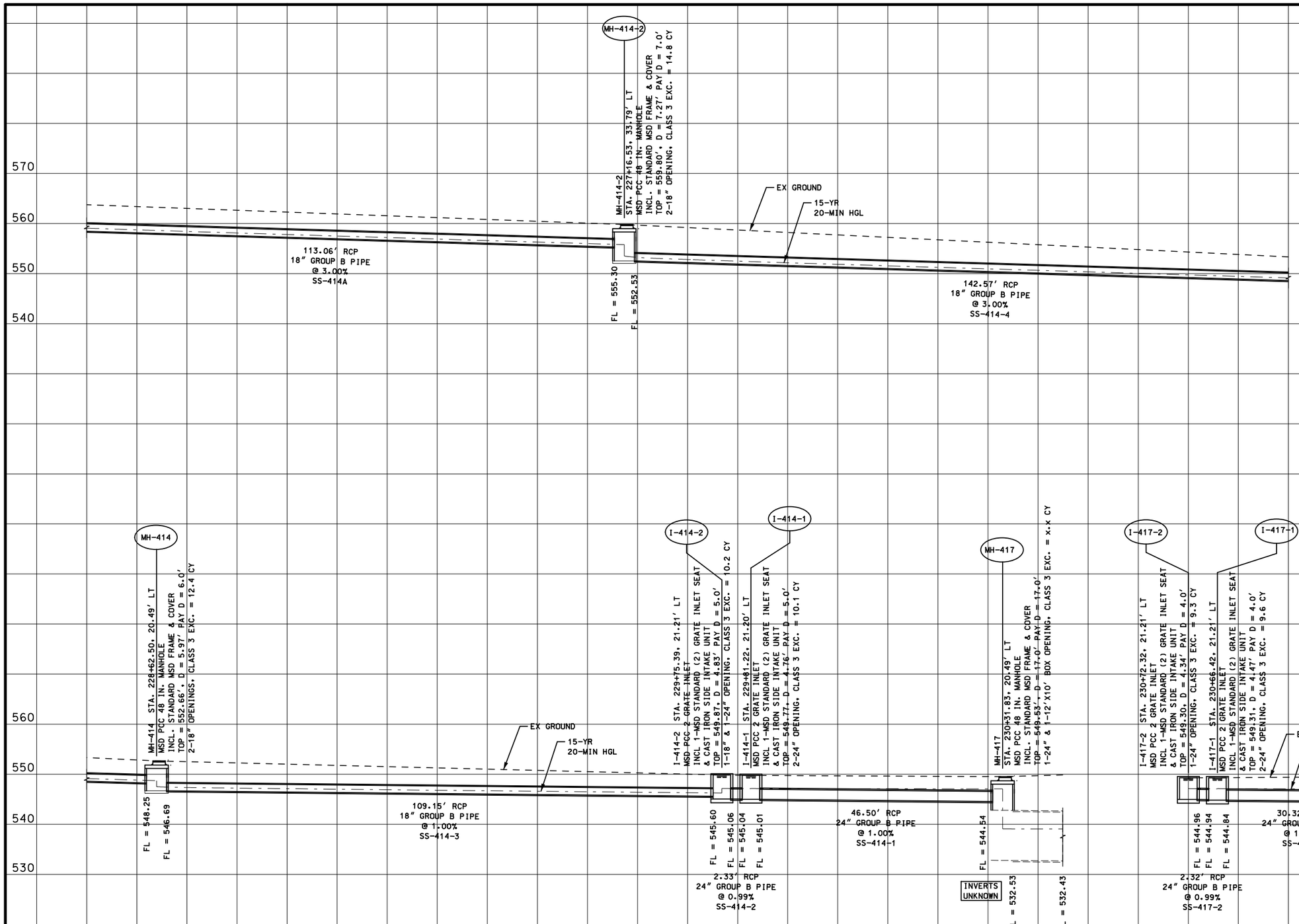
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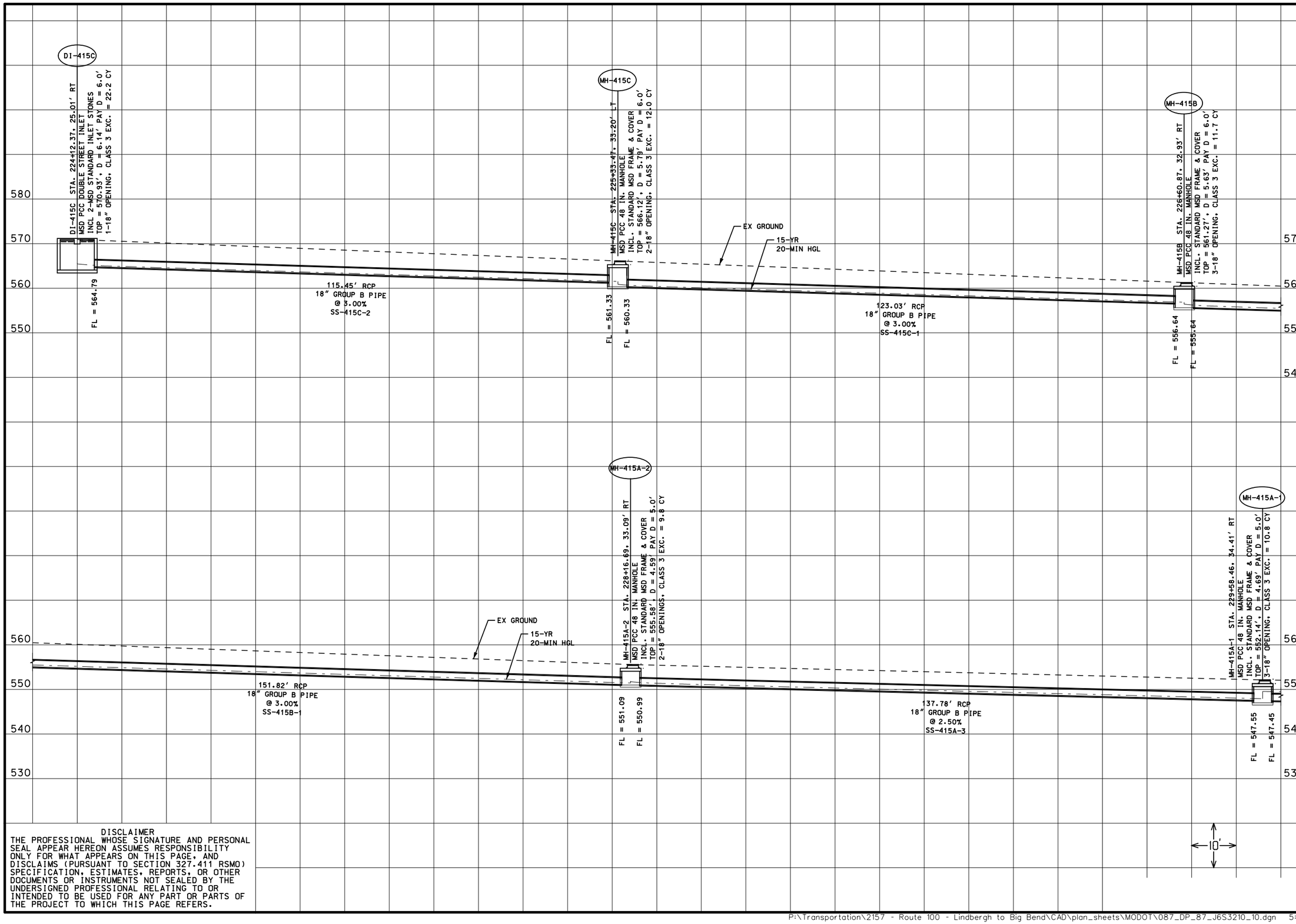
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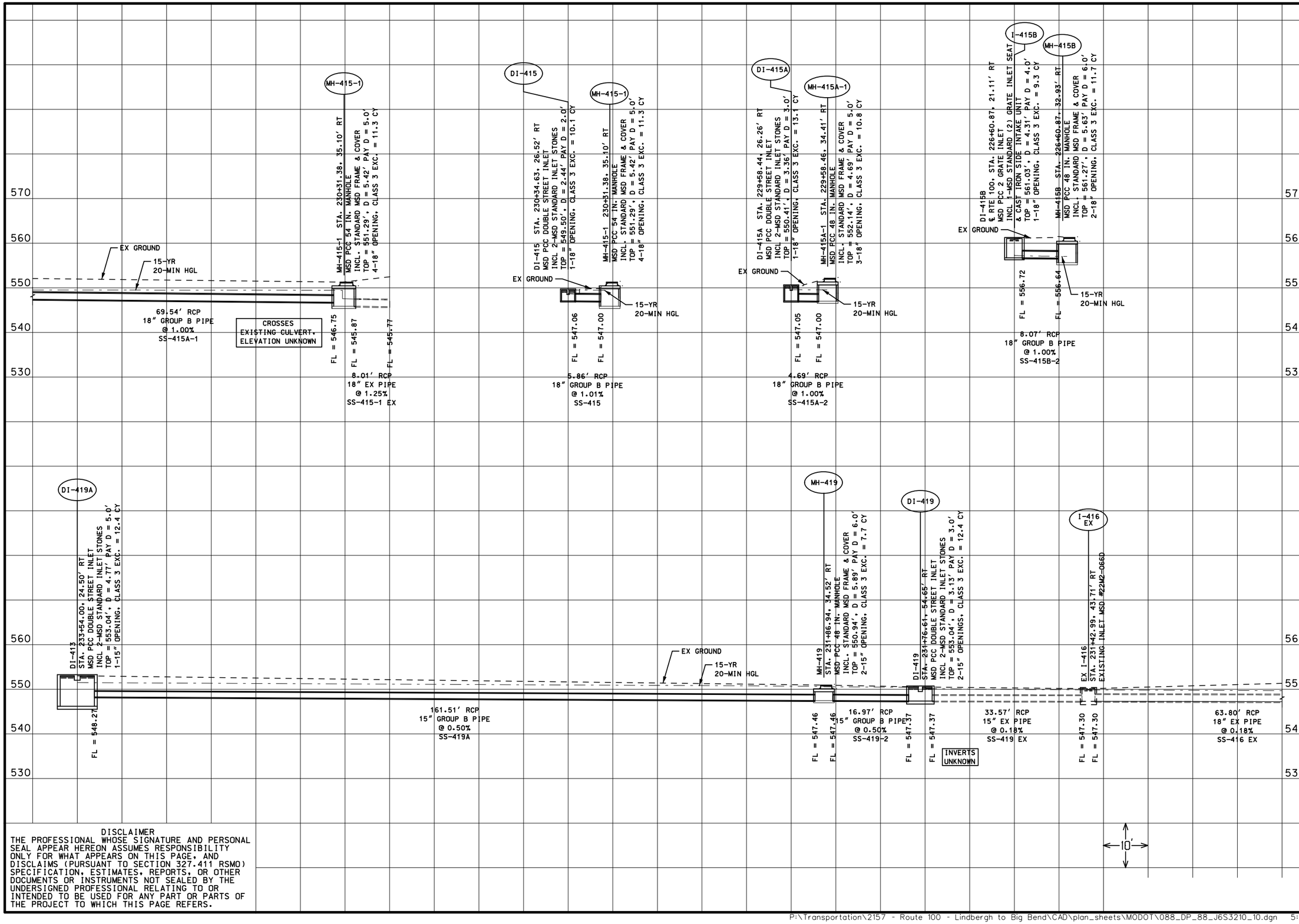
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DATE PREPARED
2/5/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.
—

PROJECT NO.
—

BRIDGE NO.
—

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

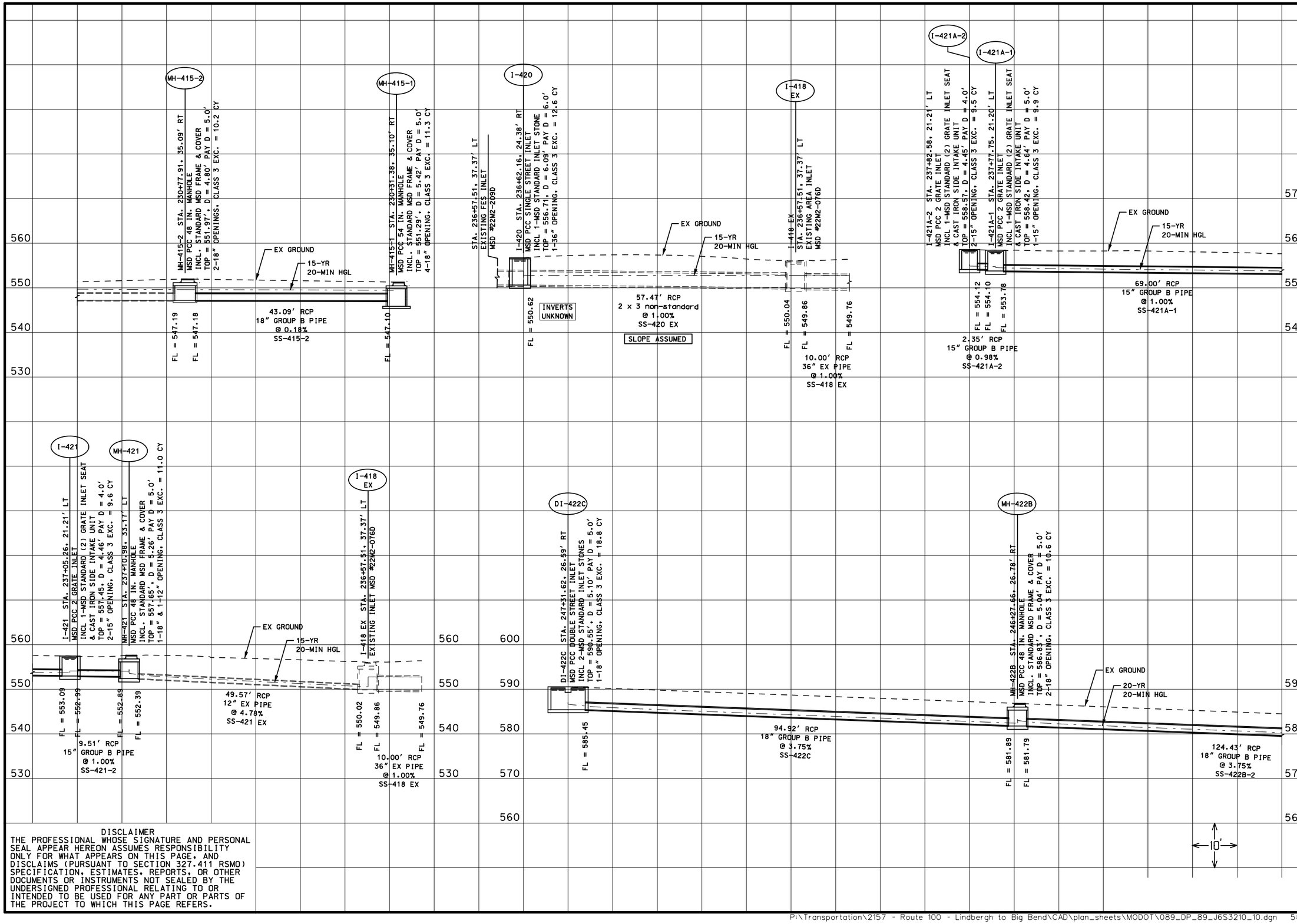
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 88 OF 92

REV.

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COUNTY
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J6S1718/J6S1718C

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PROJECT NO.
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BRIDGE NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

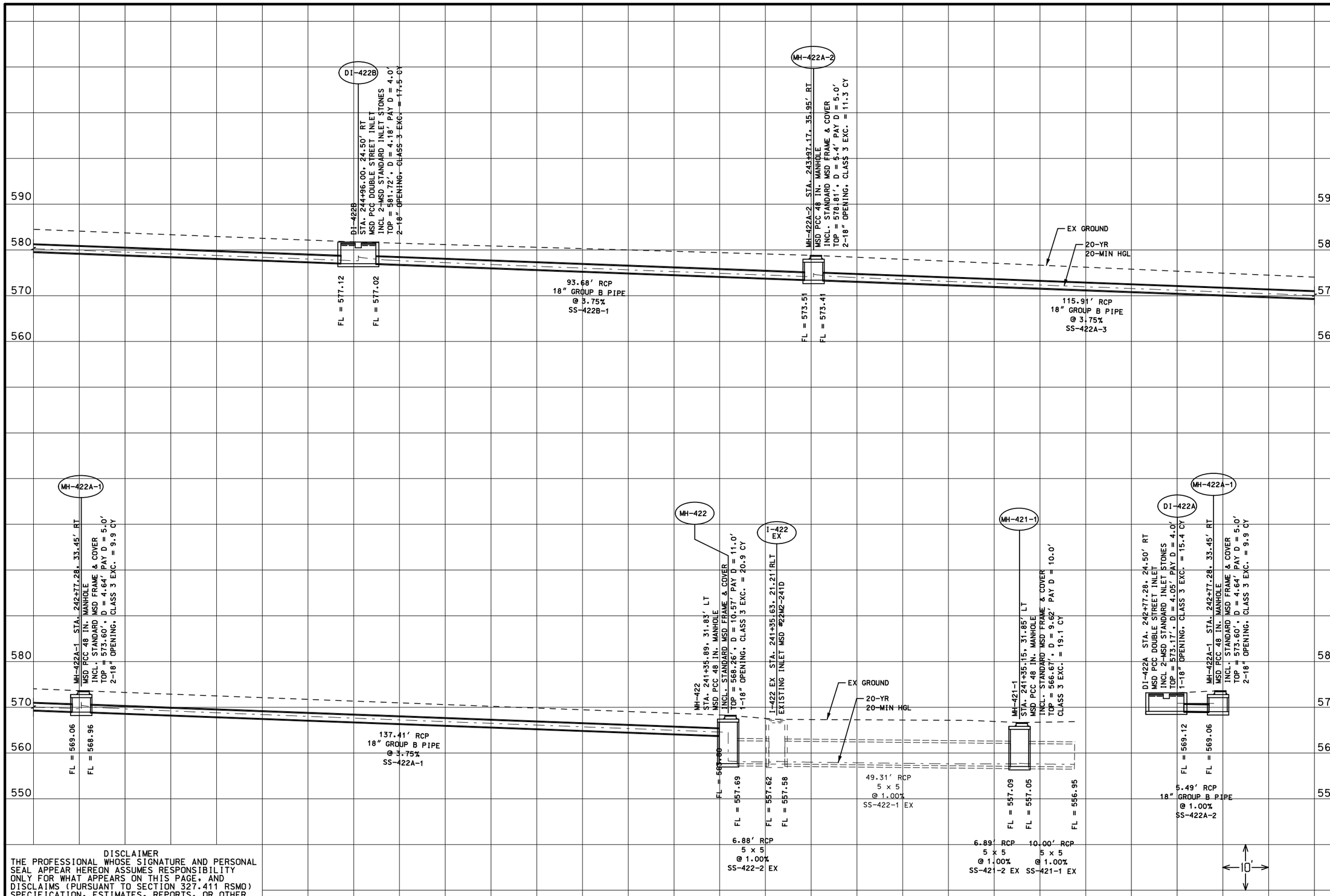
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ROUTE 100
SHEET 89 OF 92

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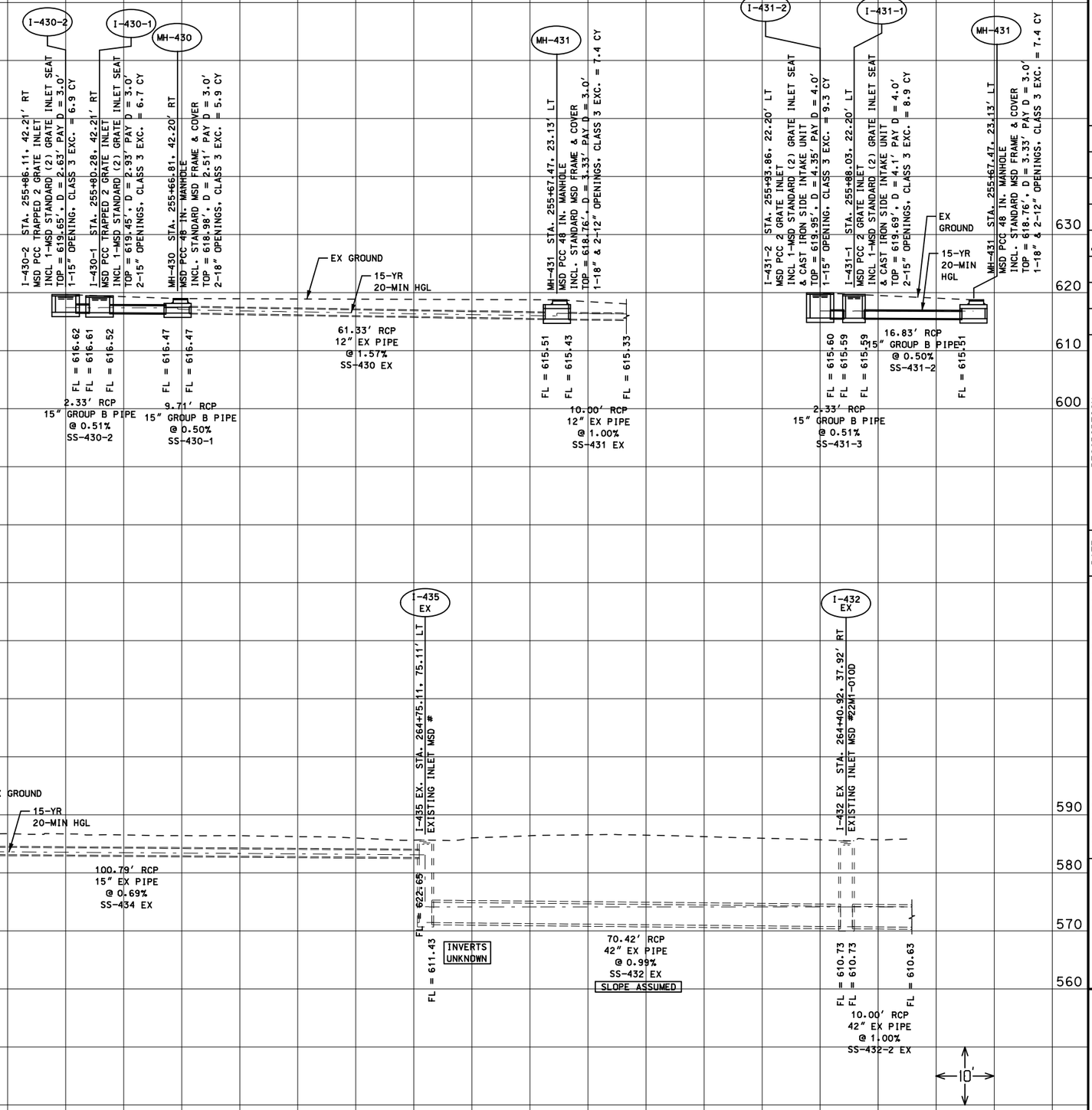
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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 90 OF 92

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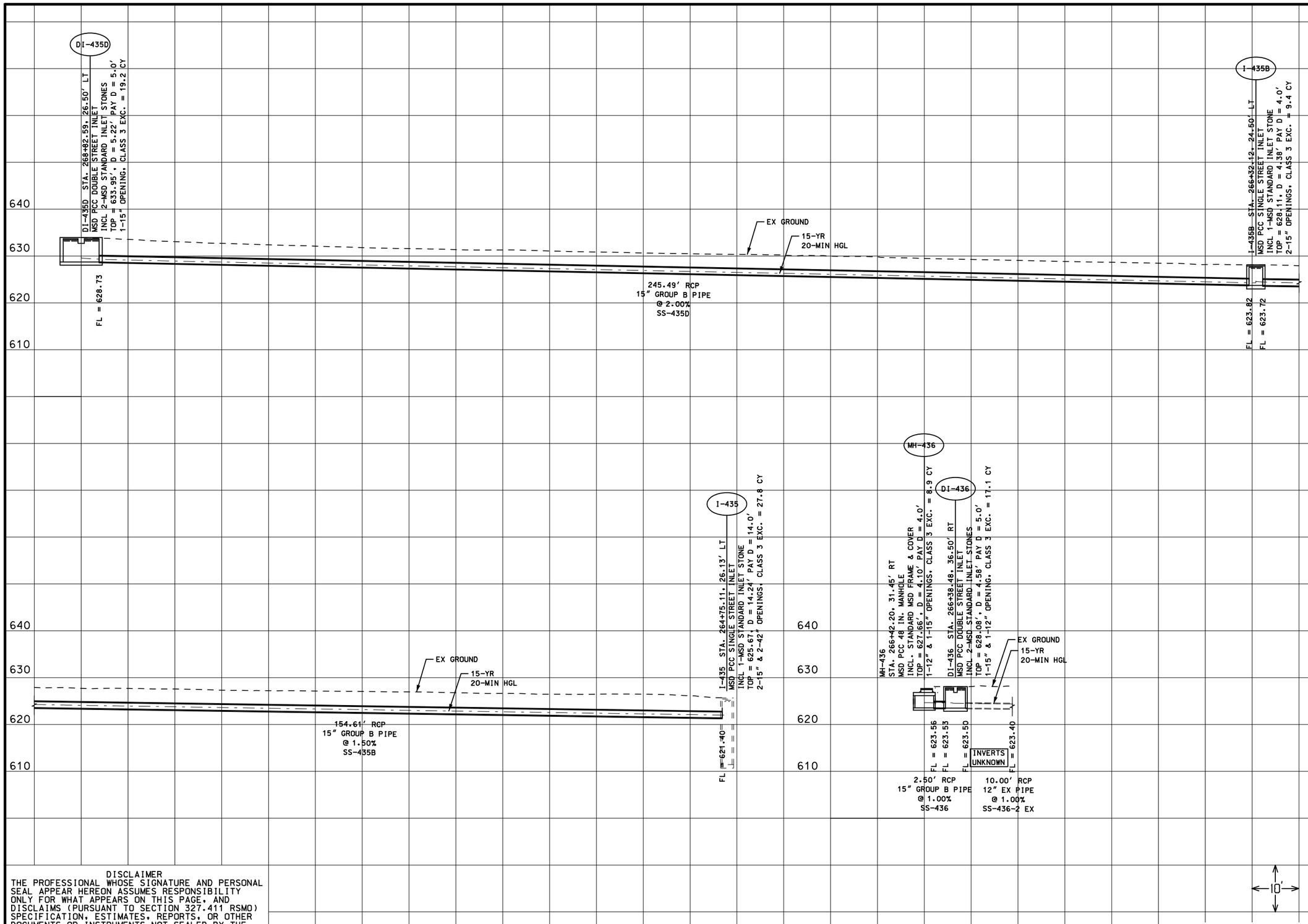
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ROUTE 100
SHEET 91 OF 92

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DRAINAGE PLAN AND PROFILE SHEETS
ROUTE 100
SHEET 92 OF 92

REV.

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PRELIMINARY PLANS
FOR
PEDESTRIAN UNDERPASS & ROGERS PARKWAY

MSD SUBMITTAL
02/13/2020

BRENTWOOD, MISSOURI
SECTION 27 & U.S. SURVEY 1930, T45N, R6E

OWNER
CITY OF BRENTWOOD
2348 S. BRENTWOOD BLVD
BRENTWOOD, MO 63144
(314) 962-4800
CONTACT: DAN GUMMERSHEIMER, P.E.

CIVIL ENGINEER
THOUVENOT WADE & MOERCHEN, INC
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
CONTACT: HEATHER COPELAND, P.E.
hcopeland@twm-inc.com

BASIS OF BEARINGS AND COORDINATES: ALL DISTANCES AND COORDINATES SHOWN HEREON ARE GROUND (GRID SCALED) VALUES, AND REFERENCED TO MISSOURI STATE PLANE COORDINATE SYSTEM, EAST ZONE.

LINEAR UNIT: US SURVEY FEET (SFT)
GEODETIC DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88 (GEOID 12A)
PROJECT LOCATION:
LATITUDE: 38°36'33.72146"N NORTHING: 1010751.409 SFT
LONGITUDE: 90°21'49.37394"W EASTING: 859150.945 SFT
HEIGHT: 415.52 SFTELEV.: 517.54 SFT
CM SCALE FACTOR: 1.0000847688

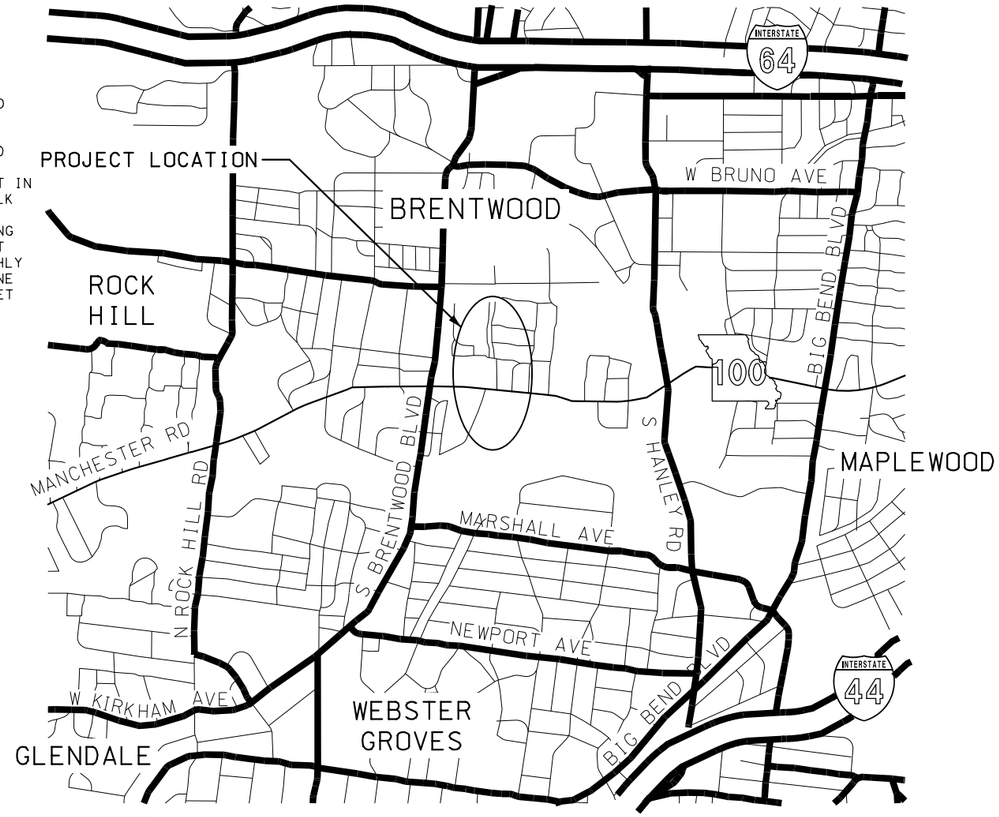
DATUM SHIFT FROM PROJECT LOCATION NAVD88 ELEVATION TO NGVD29 ELEVATION = -0.315 SFT
DATUM SHIFT CONVERSION OBTAINED USING NATIONAL GEODETIC SURVEY'S VERTCON PROCESS

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
STORM SEWER	-SS-	SS
GAS	-G-	G
WATER	-W-	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

ST. LOUIS COUNTY BENCHMARKS:
NAVD88(SLC2011a) ELEV = 458.80 FtUS (or) 139.842 METER
NGVD29 Elev = 459.17 FtUS
CUT "U" ON SOUTH SIDE OF ROUND CONCRETE BASE FOR THE WESTERNMOST OVERHEAD LAMP POST IN GRASS AREA BETWEEN THE SIDEWALK ALONG THE SOUTH SIDE OF MANCHESTER ROAD AND THE PARKING LOT FOR DEAN TEAM USED CAR LOT AT #8154 MANCHESTER ROAD;ROUGHLY 40 FEET SOUTH OF THE CENTERLINE OF MANCHESTER ROAD AND 340 FEET MORE OR LESS WEST OF THE CENTERLINE OF MECANTILE DRIVE
SP MO EAST N=308338±E=263990± METER - ESTIMATED
ROUGH NAD83 LAT=38.611682°± (N/+) LONG=90.339365°±(W/-)



ABBREVIATIONS - LEGEND

USE IN PLACE	(UIP)
DO NOT DISTURB	(DND)
ADJUST TO GRADE	(ATG)
ADJUST TO GRADE BY OTHERS	(ATGBO)
REMOVE	(TBR)
TO BE REMOVED AND REPLACED (BY CONTRACTOR)	(TBRR)
TO BE REMOVED AND RELOCATED (BY CONTRACTOR)	(TBR&RELOC)
TO BE REMOVED (BY OTHERS)	(TBRBO)
TO BE REMOVED AND REPLACED (BY OTHERS)	(TBRRBO)
TO BE REMOVED AND RELOCATED (BY OTHERS)	(TBR&RELOCBO)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBAF)
PRIVATE UNDER MSD INSPECTION	PUMI

PREVAILING WAGE NOTE

NOTICE TO CONTRACTOR: THIS PROJECT INCLUDES RELOCATION, ALTERATION, OR RECONSTRUCTION OF EXISTING MSD FACILITIES. IN ACCORDANCE WITH MSD RESOLUTION 3263, THE DISTRICT REQUIRES THE WAGE RATE TO BE AT LEAST EQUAL TO THE MISSOURI PREVAILING WAGE RATE AT THE TIME OF CONSTRUCTION START. AN AFFIDAVIT CERTIFYING THAT THE MISSOURI PREVAILING WAGE RATE AT THE TIME OF CONSTRUCTION START HAS BEEN PAID FOR ALL WORK RELATED TO RELOCATION, ALTERATION, OR RECONSTRUCTION OF EXISTING MSD FACILITIES IS REQUIRED PRIOR TO MSD CONSTRUCTION APPROVAL OF THIS PROJECT.

CONTRACTOR'S INSURANCE

PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM THE METROPOLITAN ST. LOUIS SEWER DISTRICT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE DISTRICT WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITTEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE. THE REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITIES, SECTION 10.090. (ADDENDUM)

WUNNENBERG: P22-36
MSD MAP: 21K3
MSD #: 19MSD-00347

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
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GENERAL NOTES	2
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STORM SEWER PROFILES	7-15
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DRAINAGE AREA MAP - EXISTING	18
DRAINAGE AREA MAP - PROPOSED	19
DRAINAGE AREA MAP - BMP	20
BMP DETAILS	21-22

STORMWATER MANAGEMENT FUTURE DISTURBANCE NOTE:

PROJECT DISTURBANCE = 1.35 ACRES
PROJECT RUNOFF DIFFERENTIAL = -0.33 CFS (REDUCTION)

ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)

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THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

TITLE SHEET
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 1 OF 1

REV. .

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MSD NOTES:

ABANDONMENT/PERMITS:

MSD PERMITS ARE REQUIRED PRIOR TO THE ABANDONMENT OR REMOVAL OF EXISTING SEWERS. TO RECEIVE MSD PERMITS THE PROJECT MUST HAVE MSD PLAN APPROVAL. NOTIFY MSD 48 HOURS PRIOR TO SEWER ABANDONMENT AND/OR REMOVAL.

C-900 SANITARY PIPE:

PVC GRAVITY SANITARY SEWER PIPE SIZES 4" THROUGH 15" SHALL BE AWWA C-900, CLASS 15 WITH DR18. PIPE TO BE LAID IN 20 FOOT LENGTHS WITH JOINTS WRAPPED 3 TIMES WITH FILTER FABRIC. EXTEND FILTER FABRIC 3 FEET EACH SIDE OF THE JOINT. ALL FITTINGS FOR PVC PIPE SHALL BE OF THE SAME MATERIAL AND STRENGTH REQUIREMENTS AS THE SEWER PIPE.

PVC SANITARY PIPE:

PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3034 STANDARD SPECIFICATIONS FOR THE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, SDR26 AND POLYVINYL CHLORIDE (PVC) LARGE DIAMETER PLASTIC GRAVITY SEWER PIPE AND FITTINGS, ASTM F679. PVC PIPE CONFORMING TO ASTM F794 "POLY (VINYL CHLORIDE) (PVC) PROFILE GRAVITY SEWER PIPE AND FITTINGS BASED ON CONTROLLED INSIDE DIAMETER" OPEN PRFILE (OP) ONLY AND TO ASTM F1803 "CLOSED PROFILE GRAVITY PIPE AND FITTINGS BASED ON CONTROLLED INSIDE DIAMETER" ALSO ASTM F-949 "STANDARD SPECIFICATION FOR POLY (VINYL CHLORIDE) (PVC) CORRUGATED SEWER PIPES WITH SMOOTH INTERIOR AND FITTINGS" WILL BE ALLOWED. ALL PIPES SHALL BE SERIES 46 WITH A MINIMUM WATERWAY WALL OF 0.095". FITTINGS FOR PVC PIPE SHALL BE OF THE SAME MATERIAL AND STRENGTH REQUIREMENTS AS THE SEWER, AS WELL AS MONOLITHIC IN CONSTRUCTION, UNLESS APPROVED OTHERWISE IN WRITING. CARE SHALL BE TAKEN TO ASSURE THAT NO PVC PIPE BE INSTALLED TO REMAIN EXPOSED TO SUNLIGHT OR ANY OTHER CONDITIONS THAT MAY ALLOW IT TO DETERIORATE.

COMPACTED FILL REQUIREMENTS:

A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER WILL VERIFY THAT ALL COMPRESSIBLE MATERIAL HAS BEEN REMOVED PRIOR TO FILL PLACEMENT AND THAT ALL FILL, AND FILLED AREAS, INCLUDING TRENCH BACKFILLS, UNDER BUILDINGS AND UNDER SANITARY AND STORM SEWER LINES CONSTRUCTED ABOVE THE ORIGINAL GROUND SURFACE, HAS BEEN COMPACTED TO 90% MODIFIED PROCTOR. FILL IS TO BE PLACED IN A MAXIMUM OF NINE-INCH (9") LIFTS. TESTS SHALL BE TAKEN AT A MAXIMUM OF FIFTY-FEET (50') WIDE INTERVALS ALONG THE ROUTE OF THE PIPE, AT A MAXIMUM INTERVAL, OF TWO FEET (2'), VERTICALLY AND LATERALLY ON EACH SIDE OF THE PIPE, AT A DISTANCE EQUAL TO THE DEPTH OF FILL OVER THE PIPE. A COPY OF THESE RESULTS WILL BE SUBMITTED TO MSD PRIOR TO PLACEMENT OF THE SEWER PIPE.

CONSTRUCTION SITE RUNOFF:

CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE

DETAIL DRAWINGS:

THE DETAIL DRAWINGS SHOWN HERE ARE ONLY FOR PRIVATE CONSTRUCTION THAT IS NOT UNDER MSD PERMITS. REFER TO MSD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC SEWER CONSTRUCTION OR PRIVATE CONSTRUCTION UNDER MSD PERMITS.

EXISTING CONNECTIONS:

EXISTING WATER AND SANITARY CONNECTIONS WILL NOT BE MODIFIED WITH THIS WORK.

FILL OR REMOVE ABANDONED SEWER:

ABANDONED SEWERS SHALL BE REMOVED OR COMPLETELY FILLED WITH GROUT

INFILTRATION BED:

TO PREVENT CONSTRUCTION SEDIMENT FROM CLOGGING INFILTRATION BED, AT NO TIME MAY CONSTRUCTION SEDIMENT ENTER THESE FACILITIES. ADDITIONALLY, THESE FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL SURROUNDING AREA THAT DRAINS TO THEM IS FULLY STABLE/ESTABLISHED.

INFILTRATION TESTING - FOR WHEN UTILIZING ONSITE SOILS AND/OR MIXING ONSITE FOR PLANTING SOIL:

THE IN-PLACE PERMEABILITY OF THE PLANTING SOIL SHALL BE 2.0 TO 3.5 FT/DAY, AND VERIFIED BY AND INFILTRATION TEST PERFORMED PER THE MARYLAND STORMWATER MANUAL, APPENDIX D.1, "INFILTRATION TESTING REQUIREMENTS (FIELD TESTING REQUIRED)". A MINIMUM OF ONE PERCOLATION TEST SHALL BE PERFORMED PER FACILITY. THE MSD FIELD INSPECTOR SHALL BE ALLOWED TO SELECT THE LOCATION OF PERCOLATION TESTS. THE MSD FIELD INSPECTOR SHALL BE PROVIDED A COPY OF ALL TEST RESULTS, SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER. TEST RESULTS SHALL REPORT IN UNITS OF FT/DAY. RESULTS SHALL DEMONSTRATE ACCEPTABLE PERMEABILITY PRIOR TO CONSTRUCTION APPROVAL. NOTE THESE TESTS ARE NOT REQUIRED IF UTILIZING PREMIXED PLANTING SOIL SUPPLIED BY A LOCAL MSD APPROVED SOILS SUPPLIER.

LIMITS OF DISTURBANCE:

THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE.

PIPE JOINTS WITH ADAPTERS AND COUPLINGS NOTE:

NOTE PIPE JOINTS WITH ADAPTERS AND COUPLINGS SHALL BE SUPPLIED AND INSTALLED WITH 316 STAINLESS STEEL NUT AND BOLT CLAMPS (T-BOLT) CONFIGURATION; AND WITH STAINLESS STEEL SHEAR BANDS, BEING A MINIMUM OF TWELVE (12) MILS (MSD STD. CONST. SPECS. PT. 2, SUBSECTION H11). WORM DRIVE HOSE CLAMPS AND CONCRETE BACKFILLING (CAUSTICITY) WILL NO LONGER BE ALLOWED AT THOSE JOINTS. GRANULAR BACKFILL SHOULD BE USED. IF FLOWABLE FILL IS REQUIRED, THE CONTRACTOR SHALL WRAP AND TAPE THE ADAPTERS AND COUPLINGS WITH A SIX (6) MIL POLYETHYLENE SHEET.

REMOVE REPLACE OR REHAB NOTE:

THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISTING STRUCTURE WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.

SANITARY AND STORM SEWERS IN SAME TRENCH:

IF STORM AND SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH, THE UPPER PIPE SHALL BE PLACED ON A SHELF AND THE LOWER PIPE SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOWLINE OF THE UPPER PIPE.

SANITARY LATERALS:

LATERALS TO BE 6-INCH PVC AND CONSTRUCTED AT 2.0% MINIMUM SLOPE.

SHOP DRAWINGS:

THE PROJECT ENGINEER SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN MISSOURI FOR APPROVAL TO MSD PRIOR TO CONSTRUCTION OF THESE STRUCTURES. STRUCTURES SHALL BE DESIGNED TO SUSTAIN HS-20 LOADS. PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.

SHOP DRAWINGS FOR BMPS:

MSD SHOP DRAWING SUBMITTAL REQUIRED FOR BMP AND ITS COMPONENTS PRIOR TO CONSTRUCTION.
MSD CONTACT: PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.

MSD NOTES CONTINUED:

STANDARD CONSTRUCTION:

ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2009. THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, AND SHALL INCLUDE ALL SUBSEQUENT CHANGES MADE THERETO.

SOME RECENT CHANGES CONCERN PLASTIC PIPE MATERIALS AND PIPE FIELD TESTING AND PERFORMANCE, AND INCLUDE THE FOLLOWING:

PART 2 - MATERIALS OF CONSTRUCTION

HIGH DENSITY POLYETHYLENE (HDPE) PIPE IS NOT ALLOWED FOR GRAVITY SEWERS FOR STORM, COMBINED, OR SANITARY SEWERS THAT ARE "PUBLIC:OR "PRIVATE UNDER MSD INSPECTION".

POLYPROPYLENE (PP) PIPE IS ALLOWED AS FOLLOWS FOR GRAVITY SEWERS THAT ARE "PUBLIC" OR "PRIVATE UNDER MSD INSPECTION":

FOR USE IN SANITARY AND COMBINED SEWERS 12 TO 60 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2764 "STANDARD SPECIFICATION FOR 6 TO 60 IN. POLYPROPYLENE (PP) CORRUGATED DOUBLE AND TRIPLE WALL PIPE AND FITTINGS FOR NON- PRESSURE SANITARY SEWER APPLICATIONS".
FOR USE IN STORM SEWERS 12 TO 24 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2881 "STANDARD SPECIFICATION FOR 12 TO 60 IN. POLYPROPYLENE (PP) DUAL WALL PIPE AND FITTINGS FOR NON-PRESSURE STORM SEWER APPLICATIONS;"OR
FOR USE IN STORM SEWERS 12 TO 60 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2764 "STANDARD SPECIFICATION FOR 6 TO 60 IN. POLYPROPYLENE (PP) CORRUGATED DOUBLE AND TRIPLE WALL PIPE AND FITTINGS FOR NON- PRESSURE SANITARY SEWER APPLICATIONS."

PART 4 - PIPE SEWER CONSTRUCTION

SECTION B, PIPE FIELD TESTS, PARAGRAPH 2, REACH INTEGRITY TESTING DELETE THE FIRST SENTENCE AND THE FOLLOWING REPLACEMENT APPLIES:

ALL SANITARY AND COMBINED SEWERS SHALL SUSTAIN A MAXIMUM LEAKAGE LIMIT OF 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY, AS REQUIRED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 2, REACH INTEGRITY TESTING, SUBPARAGRAPH C, INFILTRATION/EXFILTRATION TESTING DELETE THE SIXTH SENTENCE, CONCERNING LEAKAGE LIMITS, AND THE FOLLOWING REPLACEMENT APPLIES:

THE MEASUREMENT OF LEAKAGE SHALL NOT EXCEED 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY, AS REQUIRED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 4, MANHOLE TESTING, SUBPARAGRAPH A, VACUUM TESTING AFTER THE FIRST SENTENCE, THE FOLLOWING ADDITION APPLIES:

THE VACUUM TEST MUST BE PERFORMED PRIOR TO BACKFILLING AROUND THE MANHOLE UNLESS THE CONTRACTOR PROVIDES DOCUMENTATION FROM THE PRECAST MANHOLE MANUFACTURER STATING THAT THE MANHOLE MAY BE VACUUM TESTED AFTER BACKFILLING HAS TAKEN PLACE. THE CONTRACTOR MUST SUBMIT THIS DOCUMENTATION PRIOR TO BACKFILLING AROUND ANY MANHOLE.
SECTION B, PIPE FIELD TESTS, PARAGRAPH 4, MANHOLE TESTING, SUBPARAGRAPH B, EXFILTRATION TESTING DELETE THE SECOND SENTENCE, CONCERNING LEAKAGE LIMITS, AND THE FOLLOWING ADDITION APPLIES:

FOR EXFILTRATION TESTING, THE ALLOWABLE LEAKAGE LIMIT IS 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY WHEN THE AVERAGE HEAD ON THE TEST SECTION IS THREE FEET (3') OR LESS.

IF REINFORCED CONCRETE PIPE IS USED FOR SANITARY OR COMBINED SEWERS LARGER THAN 27", ALL PIPE AND JOINTS SHALL CONFORM TO ASTM C 361. IN ADDITION, IF THE DIAMETER IS LARGER THAN 48", THE JOINT TYPE MUST INCLUDE A GASKET THAT IS CONFINED IN A GROOVE IN THE SPIGOT OF THE PIPE.

TUNNEL / JACK / BORE NOTE:

ENGINEER APPROVED SHOP DRAWINGS MUST BE SUBMITTED TO MSD FOR REVIEW PRIOR TO THE CONSTRUCTION OF THE BORE, JACK OR TUNNEL. A PROPOSAL FOR THE BORE, JACK OR TUNNEL METHOD INCLUDING FULL DETAILS OF MATERIALS, EQUIPMENT AND METHOD OF OPERATION MAY BE SUBMITTED IN LIEU OF SHOP DRAWINGS. PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.

SEWER CONSTRUCTION AT ONE PERCENT (1%) OR LESS:

FOR SEWER PIPE (STORM, SANITARY, AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE DISTRIC INSPECTOR UPON REQUEST.
THE CONTRACOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN THE DESIGN GRADE MAY BE LEFT IN PLACE PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.

MSD ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPHS.
FIELD SURVEYED VERIFICAITON MUST BE MADE UNDER THE DIRECTION OF THE LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COST ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.

GENERAL UTILITY NOTES

THE TYPE, SIZE AND LOCATION OF UTILITIES AS DELINEATED ON THE PLANS AND SPECIFICATIONS HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT," OR "RECORD" DRAWINGS; FIELD SURVEY OF ONE CALL MARKED UTILITIES; OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SURFACE OR SUB-SURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE LOCATION OF UTILITIES ON THE PROJECT SITE. THEREFORE ALL UTILITY LOCATIONS, SIZE, AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND THE CONTRACTOR MUST VERIFY ALL UTILITIES IN THE FIELD.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING MISSOURI ONE CALL AND/OR THE PERTINENT UTILITY FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OPERATIONS. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DESIGN COORDINATION.

ANY RELOCATION OF PUBLIC OR PRIVATE UTILITIES SHALL BE UNDERTAKEN IN ACCORDANCE WITH ALL REQUIREMENTS OF THE UTILITY COMPANY AND WITH REGARD TO THE REQUIRED FEES, BONDS, PERMITS, AGREEMENTS, WORKING CONDITIONS, ETC. OF SAID COMPANY OR JURISDICTION. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND JURISDICTIONS A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF WORK TO ALLOW THE UTILITIES TO MARK THEIR LINES OR TO ALLOW THE PERTINENT JURISDICTIONS TIME TO COORDINATE THEIR STAFF, MATERIALS, AND EQUIPMENT TO CONDUCT INSPECTION.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING STRUCTURES, AND/OR UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY OR JURISDICTION TO PROPERLY REPAIR ANY FACILITIES DAMAGED IN THE COURSE OF THE WORK.

ANY FACILITIES OR APPURTENANCES, WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION, SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL/ADJUSTMENTS AND ADJUST HIS OPERATIONS IN ORDER THAT, THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THE PROJECT MAY PROGRESS IN A REASONABLE MANNER.

ANY SUBSURFACE UTILITY WITHIN THE PROJECT LIMITS IS TO BE VERIFIED FOR ACTIVITY WITH RESPECTIVE UTILITY OWNER. UTILITY OWNERS AND CONTACT INFORMATION IS PROVIDED ON THE TITLE SHEET.

MSD #: 19MSD-00347

DATE PREPARED
2/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

GENERAL NOTES

PEDESTRIAN UNDERPASS & ROGERS PARKWAY

SHEET 1 OF 1

REV.

NOTES:

1. ALL SANITARY STRUCTURES ARE MAINTAINED BY MSD.

2. FOR CLARITY, PORTIONS OF THE PAVEMENT, SIDEWALKS, ETC. REMOVAL HATCH IS NOT SHOWN. NOT ALL ITEMS TO BE REMOVED ARE LABELED. SEE REMOVALS SHEET FOR MORE DETAILS.

3. SEE SEWER PROFILE SHEETS FOR STRUCTURE AND PIPE DETAILS.

4. UNLESS NOTED OTHERWISE, ALL DRAINAGE STRUCTURES AND PIPES TO BE INSTALLED BY MODOT JOB NO. J6S1718B AND TO BE HANDLED UNDER MSD PERMIT 19MSD-00347.

5. ALL STORM STRUCTURES CONNECTING TO NEW DOUBLE CURB INLET 3-6 FROM THE WEST TO BE HANDLED UNDER MODOT JOB NO. J6S1718 AS WELL AS A SEPARATE MSD SUBMITTAL AND PERMIT.

DISCLAIMER
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(68)	T and C Properties, LLC	(79)	Manchester Road Properties, LLC
(69)	City of Brentwood	(80)	Norman J. Knight
(70)	Idowu Ajibola	(81)	8619 Manchester, LLC
(71)	Mary Avenue & Company LLC	(82)	City of Brentwood
(72)	Norman B. West & Mary Lou West	(83)	City of Brentwood
(73)	Morice Enterprises, LLC,	(84)	Suburban Partners, L.P.

SCALE
0 40 80 120
MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

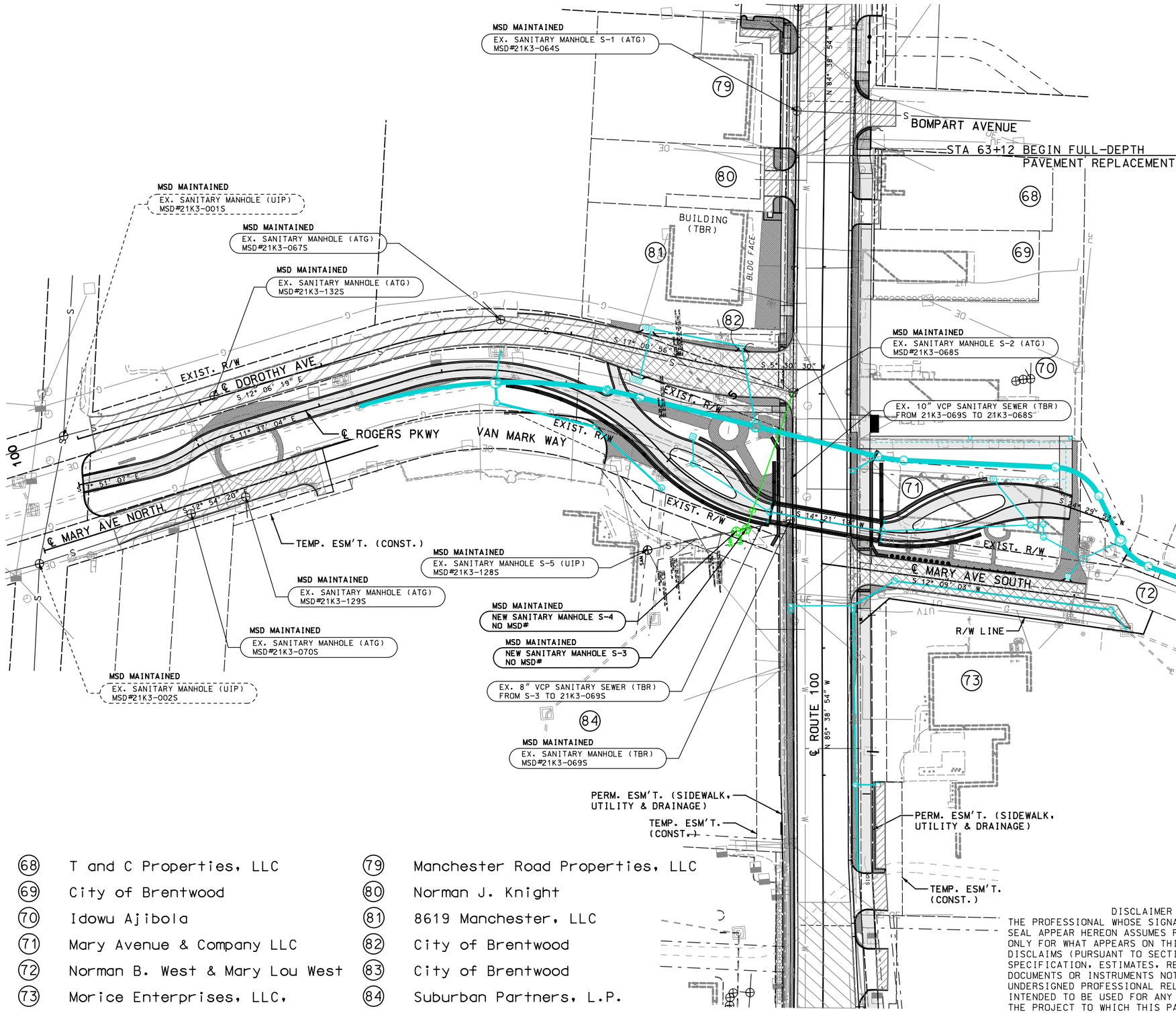
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OVERALL DRAINAGE PLAN
PEDESTRIAN UNDERPASS & ROGERS' PARKWAY
SHEET 1 OF 1

REV.

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NOTES:

1. ALL SANITARY STRUCTURES ARE MAINTAINED BY MSD.

2. FOR CLARITY, PORTIONS OF THE PAVEMENT, SIDEWALKS, ETC. REMOVAL HATCH IS NOT SHOWN. NOT ALL ITEMS TO BE REMOVED ARE LABELED. SEE REMOVALS SHEET FOR MORE DETAILS.

3. SEE SEWER PROFILE SHEETS FOR STRUCTURE AND PIPE DETAILS.

4. UNLESS NOTED OTHERWISE, ALL DRAINAGE STRUCTURES AND PIPES TO BE INSTALLED BY MODOT JOB NO. J6S1718B AND TO BE HANDLED UNDER MSD PERMIT 19MSD-00347.

5. ALL STORM STRUCTURES CONNECTING TO NEW DOUBLE CURB INLET 3-6 FROM THE WEST TO BE HANDLED UNDER MODOT JOB NO. J6S1718 AS WELL AS A SEPARATE MSD SUBMITTAL AND PERMIT.

(68)	T and C Properties, LLC	(79)	Manchester Road Properties, LLC
(69)	City of Brentwood	(80)	Norman J. Knight
(70)	Idowu Ajibola	(81)	8619 Manchester, LLC
(71)	Mary Avenue & Company LLC	(82)	City of Brentwood
(72)	Norman B. West & Mary Lou West	(83)	City of Brentwood
(73)	Morice Enterprises, LLC,	(84)	Suburban Partners, L.P.

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SCALE
0 40 80 120

MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 4
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

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OVERALL SANITARY PLAN
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 1 OF 1

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(SEE SHEET 6)
MATCHLINE OFFSET 190.00' LT

EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE INDICATED ON THE PLANS, ALL LANDSCAPING, TREES, SIGNS, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE REMOVED FROM PARCELS TO, 71, 72, 81, 82, 83 WITHIN THE BOUNDARY OF THE LAND OR EASEMENTS TO BE ACQUIRED.

CURVE 8 – ROUTE 100	
PI	64+95.91
PC	63+45.91
PT	65+95.91
Δ	1° 00' 00.0" (LT)
D	0° 30' 00.0"
L	200.00'
T	100.00'
R	11,458.87'

(71) MARY AVENUE & COMPANY LLC

(72) NORMAN B. WEST & MARY LOU WEST

(69)

(70) IDOWU AJIBOLA

(73) MORICE ENTERPRISES, LLC

(84) SUBURBAN PARTNERS, L.P.

(82) CITY OF BRENTWOOD

(83) CITY OF BRENTWOOD

(81)

MARY AVENUE (201 S 12° 09' 03" W 224.33' (ASPHALT PVT.) STA 66+33.52 PI (ROUTE 100) STA 200+00.00 (MARY AVE))

DOROTHY AVENUE (201 S 12° 09' 03" W 224.33' (ASPHALT PVT.) STA 66+33.52 PI (ROUTE 100) STA 200+00.00 (DOROTHY AVE))

℄ ROUTE 100

℄ ROGERS PARKWAY

VANMARK WAY

PROPOSED PEDESTRIAN UNDERPASS ROGERS PARKWAY STA 6+34.18 = ROUTE 100 STA 66+00.00

MATCHLINE MODOT JOB NO. J6S1718 (SEPARATE MSD PERMIT)

PT STA 65+95.91

PT STA 105+50.41

PC STA 105+00.02

PT STA 104+18.14

MATCHLINE OFFSET 185.00' RT (SEE SHEET 6)

MSD #: 19MSD-00347

SLOPE LIMITS NOTE:

ALL ITEMS SHOWN OUTSIDE OF LABELED SLOPE LIMITS ARE TO BE PERMITTED UNDER SEPARATE MSD SUBMITTAL AND PERMIT NUMBER.

LEGEND

- MILL & FILL LIMITS
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT (TO BE OVERLAID)
- PAID FOR AS CURB RAMP
- PAID FOR AS SIDEWALK
- PAVEMENT TO BE REMOVED
- DETECTABLE WARNINGS

SCALE 0 20 40 60

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 5
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE | DESCRIPTION | REV.

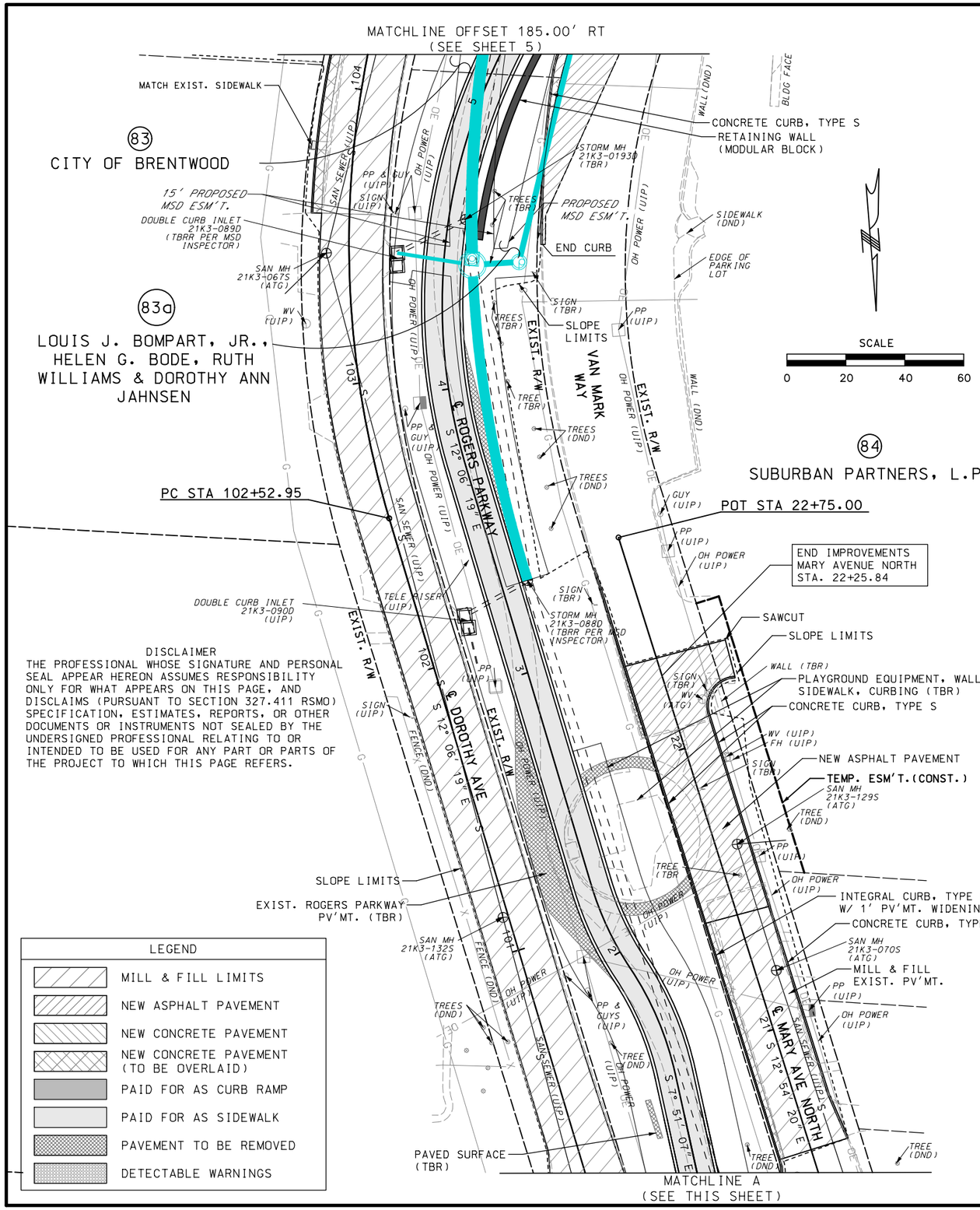
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PLAN
PEDESTRIAN UNDERPASS & ROGERS' PARKWAY
SHEET 1 OF 2

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EXISTING IMPROVEMENTS:

UNLESS OTHERWISE INDICATED ON THE PLANS, ANY EXISTING IMPROVEMENTS, SUCH AS PARKING LOTS, SIGNS, LANDSCAPING, PAVEMENT, RETAINING WALLS, CURB, GUTTER, STEPS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS, SHALL BE LEFT IN PLACE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 6
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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PLAN
PEDESTRIAN UNDERPASS & ROGERS' PARKWAY
SHEET 2 OF 2

REV.

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SHEET SPECIFIC NOTES:

1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

X/Y X = Network *
Y = Run *

5'
5'

MANHOLE BY OTHERS
STRUCTURE 307A
19MSD-00286
MH 1-1

CONTINUED BY OTHERS
(19MSD-00286)
Q=90.31 CFS

℄ 430.47

EX. GRADE

HGL

MATCH LINE A-A

201.0'
48" RCP @ 1.50%
GROUP B PIPE
Q=90.31 CFS
PUBLIC (MSD)
1/1

72 IN. MANHOLE MH 1-2

447.00

℄ 433.49

℄ 433.49

30.5'
48" RCP W/40' RADIUS BEND @ 1.50%
GROUP B PIPE
Q=90.31 CFS
PUBLIC (MSD)
1/2

MATCH LINE B-B

MATCH LINE A-A

1/1

96 IN. MANHOLE MH 1-3

446.00

℄ 433.95

12" PIPE
℄ 434.93

℄ 433.95

1/2

72 IN. MANHOLE MH 1-4

445.00

℄ 434.54

℄ 434.54

39.1'
48" RCP @ 1.50%
GROUP B PIPE
Q=88.57 CFS
PUBLIC (MSD)
1/3

72 IN. MANHOLE MH 1-5

445.35

℄ 435.19

℄ 435.19

43.1'
48" RCP @ 1.50%
GROUP B PIPE
Q=88.57 CFS
PUBLIC (MSD)
1/4

GRANULAR BACKFILL

PR. FINISHED GRADE

PR. FINISHED GRADE

EX. GRADE

EX. GRADE

HGL

SEE SW SHEET 2 OF 9

1/5

MATCH LINE B-B

MATCH LINE C-C

MSD #: 19MSD-00347

DATE PREPARED	2/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	7
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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STORM SEWER PROFILES
PEDESTRIAN UNDERPASS
& ROGERS PARKWAY
SHEET 1 OF 9

SHEET SPECIFIC NOTES:

1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

X/Y X = Network *
Y = Run *

5'
5'

MATCH LINE C-C

PR. FINISHED GRADE
EX. GRADE
HGL

119.5'
48" RCP @ 1.50%
GROUP B PIPE
Q=88.57 CFS
PUBLIC (MSD)
1/5

72 IN. MANHOLE MH 1-6
℄ 436.98

72 IN. MANHOLE MH 1-7
449.73
452.20
12" PIPE
℄ 448.14
℄ 436.98
℄ 437.29
℄ 437.29

20.8'
48" RCP W/105' RADIUS BEND @ 1.50%
GROUP A PIPE
Q=88.57 CFS
PUBLIC (MSD)
1/6

1/7

MATCH LINE D-D

MATCH LINE D-D

PR. FINISHED GRADE
GRANULAR BACKFILL
EX. GRADE
6" GAS (TBR&RELOCBO)
8" WATER (TBR&RELOCBO)
12" GAS (TBR&RELOCBO)
HGL

98.7'
48" RCP PIPE @ 1.00%
GROUP A PIPE
Q=88.34 CFS
PUBLIC (MSD)
1/7

96 IN. MANHOLE MH 1-8
449.00
12" PIPE
℄ 441.55
℄ 438.28
℄ 438.28

10" PVC
℄ 435.83

1/8

MATCH LINE E-E

MATCH LINE E-E

GRANULAR BACKFILL
PR. FINISHED GRADE
EX. GRADE
HGL

93.8'
48" RCP @ 1.00%
GROUP B PIPE
Q=87.12 CFS
PUBLIC (MSD)
1/8

72 IN. MANHOLE MH 1-9
446.60
℄ 439.22
℄ 439.22

72 IN. I.D. MH
4 WAY AREA INLET 1-10
EX. GRADE
PR. FINISHED GRADE
447.42
HGL
℄ 439.49
℄ 439.49

27.1'
48" RCP-TYPE 5 W/407' RADIUS BEND
@ 1.00%
Q=87.12 CFS
PUBLIC (MSD)
1/9

MATCH LINE F-F

EX. GRADE
PR. FINISHED GRADE
HGL

87.9'
48" RCP-TYPE 5 W/407' RADIUS BEND
@ 1.00%
Q=86.88 CFS
PUBLIC (MSD)
1/10

MSD #: 19MSD-00347

DATE PREPARED
2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 8
COUNTY
ST. LOUIS
JOB NO.
J6S1718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

STORM SEWER PROFILES
PEDESTRIAN UNDERPASS
& ROGERS PARKWAY
SHEET 2 OF 9

SHEET SPECIFIC NOTES:

1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

X = Network *
Y = Run *

5'
5'

MATCH LINE F-F

GRANULAR BACKFILL
PR. FINISHED GRADE
HGL
EX. GRADE

96 IN. I.D. AI
4 WAY AREA INLET (1-11)
449.82
15" PIPE
℄ 444.49
24" PIPE
℄ 444.73
℄ 440.37
℄ 440.37

SEE SW SHEET 2 OF 9
1/10

109.0'
42" RCP-TYPE 5 W/407' RADIUS BEND
@ 2.43%
Q=64.06 CFS
PUBLIC (MSD)
1/11

MATCH LINE G-G

MSD#21K3-088D (EXMH)
ATG (1-12)
454.44
EX. 15" PIPE
℄ 447.54
ASSUMED
℄ 445.65
ASSUMED
℄ 445.65

PR. FINISHED GRADE
HGL
1/11
1/12

MATCH LINE H-H

EX. GRADE
PR. FINISHED GRADE
HGL

269.3'
EX. 36" RCP @ 0.85%
Q=56.33 CFS
PUBLIC (MSD)
1/12

MSD#21K3-091D (EXD1)
(1-13)
460.37
EX. 15" RCP
℄ 449.79
EX. 30" RCP
℄ 449.79
℄ 447.95

MATCH LINE I-I

PR. FINISHED GRADE
EX. GRADE
HGL
1/12

MSD #: 19MSD-00347

DATE PREPARED	2/13/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	9
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001528

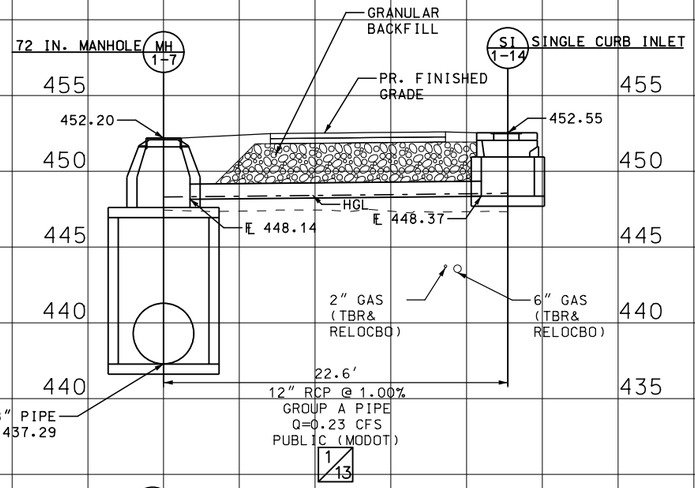
STORM SEWER PROFILES
PEDESTRIAN UNDERPASS
& ROGERS PARKWAY
SHEET 3 OF 9

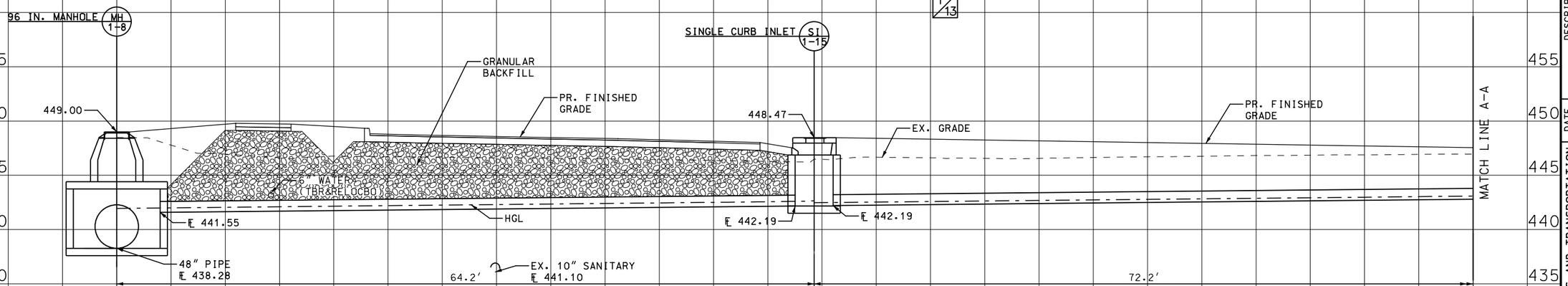
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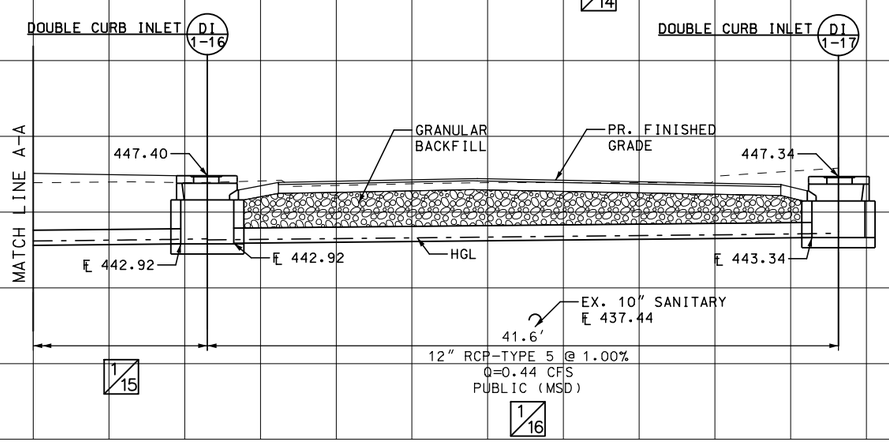
1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

X/Y X = Network *
Y = Run *

5'
5'







MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 10
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
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STORM SEWER PROFILES
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 4 OF 9

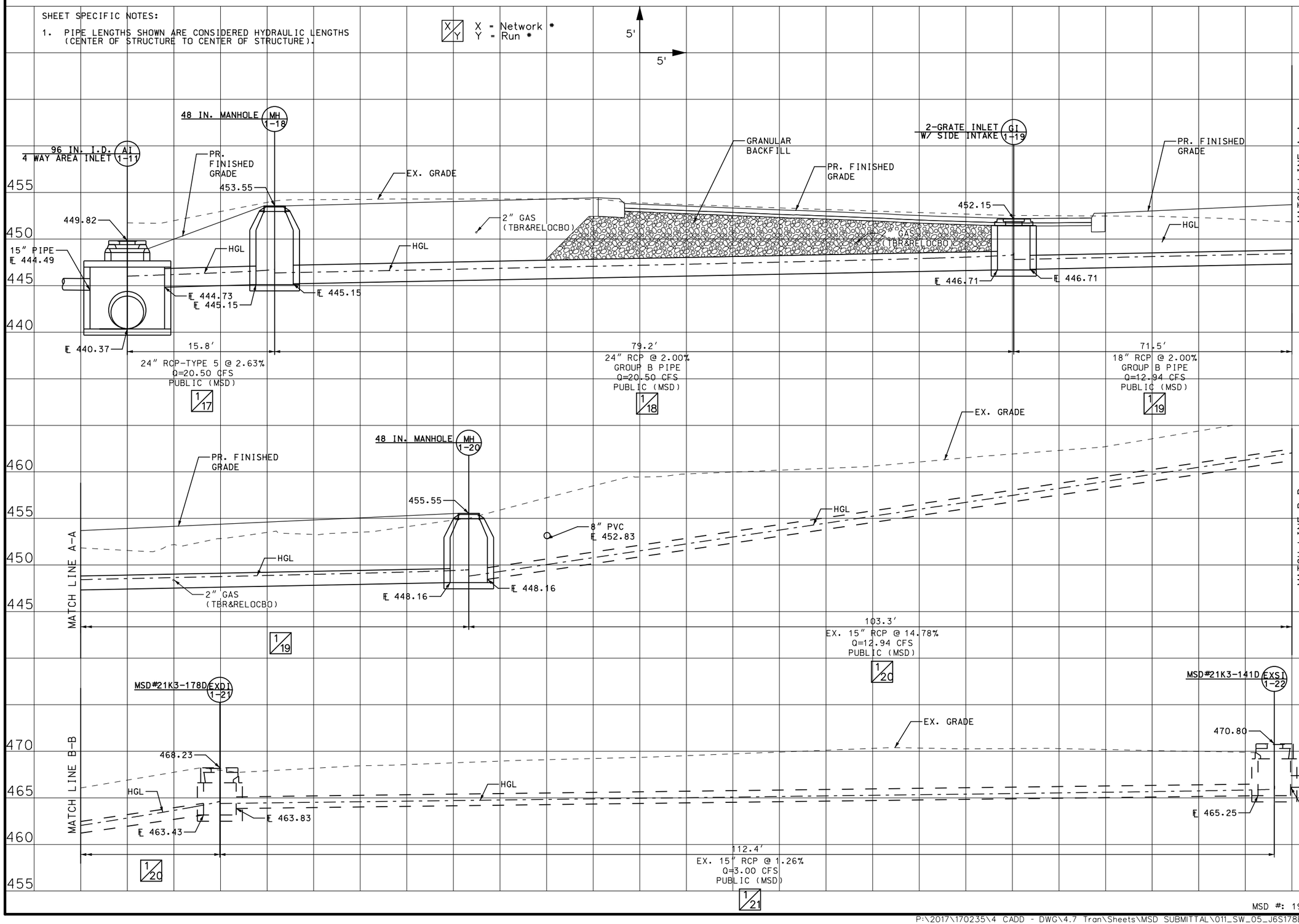
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SHEET SPECIFIC NOTES:

1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

X/Y X = Network *
Y = Run *

5'
5'



MSD #: 19MSD-00347

DATE PREPARED
2/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM
ENGINEERING
GEOSPATIAL SERVICES
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STORM SEWER PROFILES
PEDESTRIAN UNDERPASS
& ROGERS PARKWAY
SHEET 5 OF 9

REV.

P:\2017\170235\4 CADD - DWG\4.7 Tran\Sheets\MSD SUBMITTAL\011_SW_05_J6S178B_I5.dgn 9:17:08 AM 2/13/2020

SHEET SPECIFIC NOTES:

1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

X = Network *
Y = Run *

5'
5'

96 IN. I.D. AI
4 WAY AREA INLET 1-11

MSD#21K3-089D(EXD1)
1-23

GRANULAR BACKFILL
PR. FINISHED GRADE
EX. GRADE
449.82
449.43
24" PIPE
℄ 444.73
HGL
℄ 444.49
℄ 444.75
25.9'
15" RCP-TYPE 5 @ 1.00%
Q=1.20 CFS
PUBLIC (MSD)
1/22
42" & 48" PIPE
℄ 440.37

MH 1-3 96 IN. MANHOLE
MH 2-1 4 WAY AREA INLET
MH 2-2 48 IN. MANHOLE
MH 2-3 48 IN. MANHOLE BYPASS STRUCTURE

446.00
444.35
EX. GRADE
446.07
445.10
PR. FINISHED GRADE
GRANULAR BACKFILL
12" PIPE
℄ 439.50
12" PIPE
℄ 439.58
HGL
HGL
HGL
HGL
℄ 434.93
℄ 435.26
℄ 435.26
℄ 435.61
℄ 435.67
℄ 436.29
℄ 435.81
48" PIPE
℄ 433.95
6" PVC IN FROM HDS
℄ 435.61
6" PVC OUT TO HDS
℄ 435.81
32.6'
12" RCP @ 1.00%
GROUP B PIPE
Q=1.74 CFS
PRIVATE (BRENTWOOD)
2/1
35.5'
12" RCP @ 1.00%
GROUP B PIPE
Q=1.32 CFS
PRIVATE (BRENTWOOD)
2/2
14.1'
12" RCP @ 4.38%
GROUP B PIPE
Q=1.32 CFS
PRIVATE (PUMI)
2/3
116.6'
12" RCP-TYPE 5 @ 1.00%
Q=0.92 CFS
PRIVATE (BRENTWOOD)
2/4

MATCH LINE A-A

EX. GRADE
MH 2-4 48 IN. MANHOLE
6" GAS
(TBR& RELOCBO)
6" WATER
(TBR&RELOCBO)
PR. FINISHED GRADE
GRANULAR BACKFILL
441.43
HGL
℄ 436.98
℄ 436.98
12" PVC
℄ 436.98
90.0'
12" RCP-TYPE 5 @ 1.00%
Q=0.48 CFS
PRIVATE (BRENTWOOD)
2/5
2/4

MATCH LINE B-B

MSD #: 19MSD-00347

DATE PREPARED
2/13/2020
ROUTE 100
STATE MO
DISTRICT SL
SHEET NO. 12
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MISSOURI CERT. OF AUTHORITY: 001528

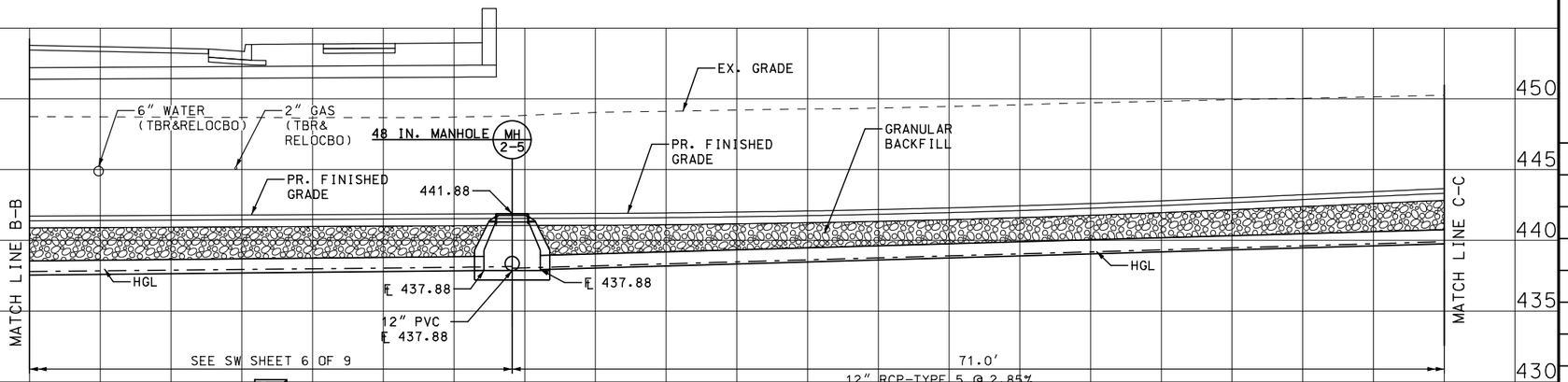
STORM SEWER PROFILES
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 6 OF 9

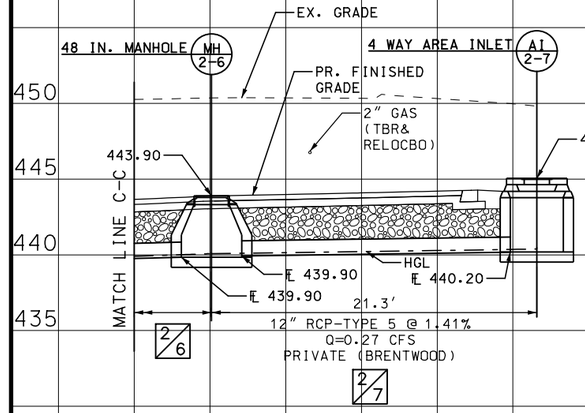
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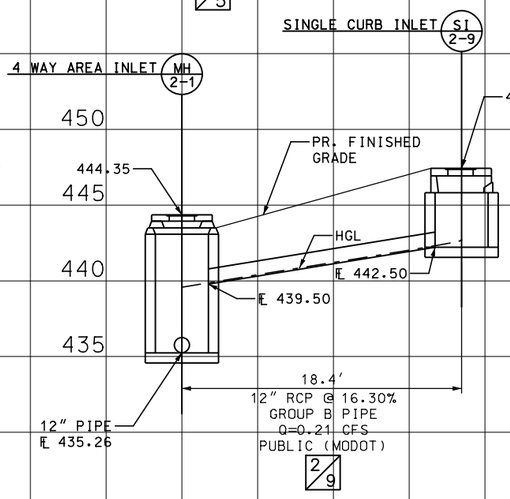
1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

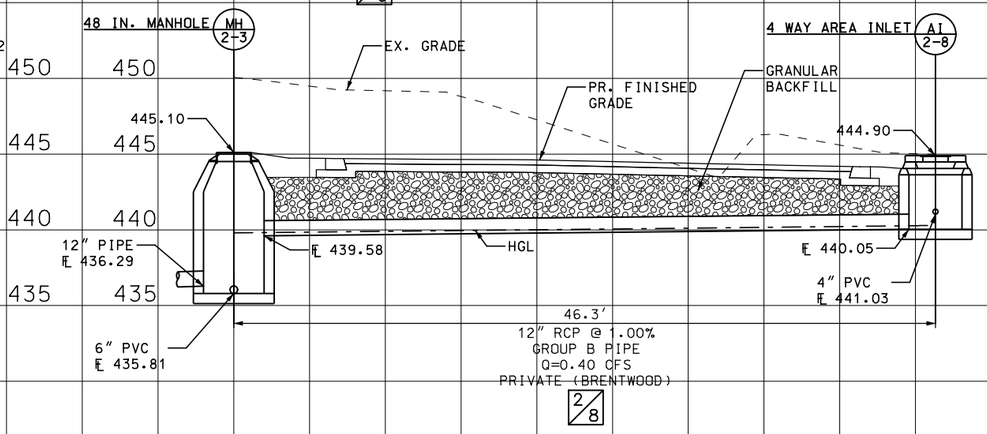
X = Network *
Y = Run *

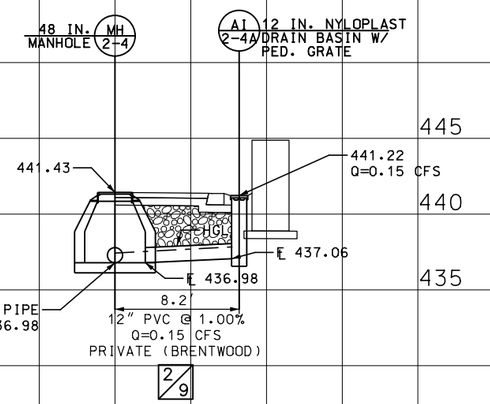
5'
5'

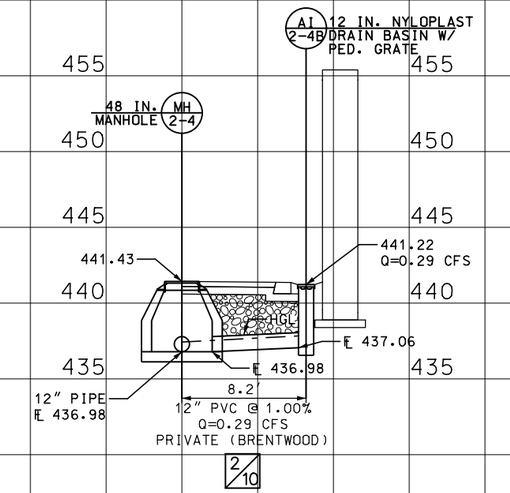


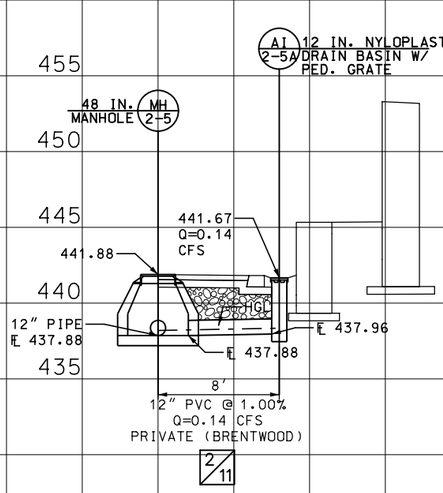


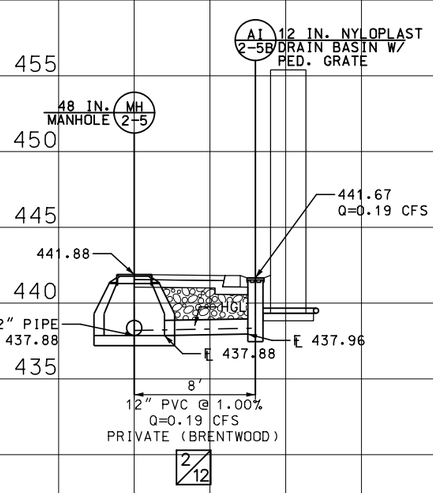












MSD #: 19MSD-00347

DATE PREPARED
2/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001538

STORM SEWER PROFILES
PEDESTRIAN UNDERPASS
& ROGERS' PARKWAY
SHEET 7 OF 9

SHEET SPECIFIC NOTES:

1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

X/Y X = Network *
Y = Run *

5' 5'

EX OF MSD#21K3-039D 3-1

ASSUMED CONNECTION TO EX. BOX CULVERT (MSD#21K3-038D)

EXBOX 3-2

EX. GRADE

EX. OUTFALL TO CREEK
℄ 435.07

HGL

ASSUMED
℄ 437.36

ASSUMED
℄ 435.51

37.5'
EX. 8'X5' BOX CULVERT @ 1.17%
Q=16.15 CFS
PUBLIC (MSD)

3/1

3/2

MATCH LINE A-A

MATCH LINE B-B

207.0'
EX. 18" RCP @ 1.84%
Q=15.15 CFS
PUBLIC (MSD)

3/2

EXS 3-3 MSD#21K3-046D

MH 3-4 48 IN. MANHOLE

445.39

446.00

℄ 441.17

℄ 441.23

℄ 441.86

℄ 441.86

2" GAS
(TBR&RELOCBO)

PR. FINISHED GRADE

MATCH LINE C-C

20.0'
18" RCP-TYPE 5 @ 3.50%
Q=11.30 CFS
PUBLIC (MSD)

3/3

171.8'
18" RCP-TYPE 5 @ 3.50%
Q=11.30 CFS
PUBLIC (MSD)

3/4

MSD #: 19MSD-00347

DATE PREPARED
2/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

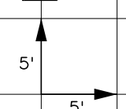
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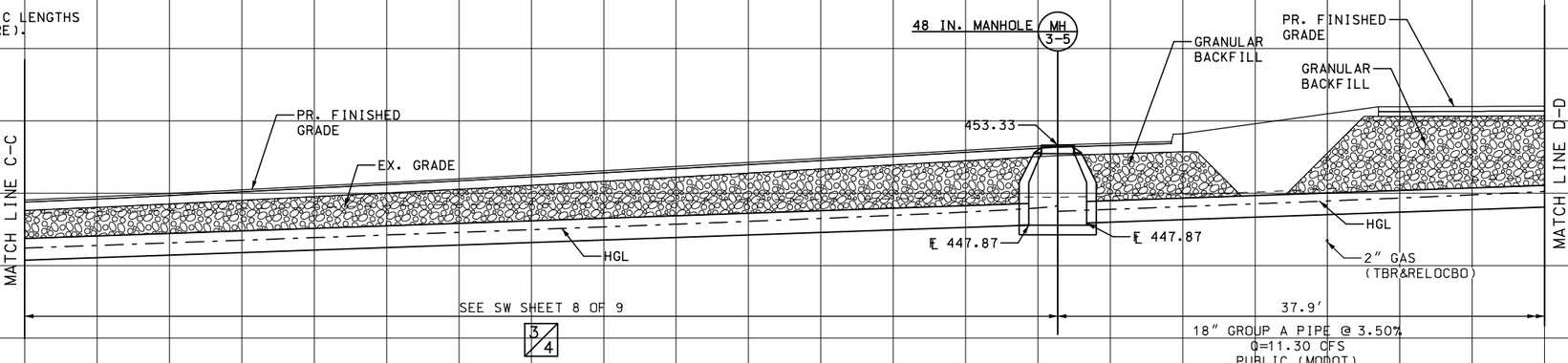
STORM SEWER PROFILES
PEDESTRIAN UNDERPASS
& ROGERS PARKWAY
SHEET 8 OF 9

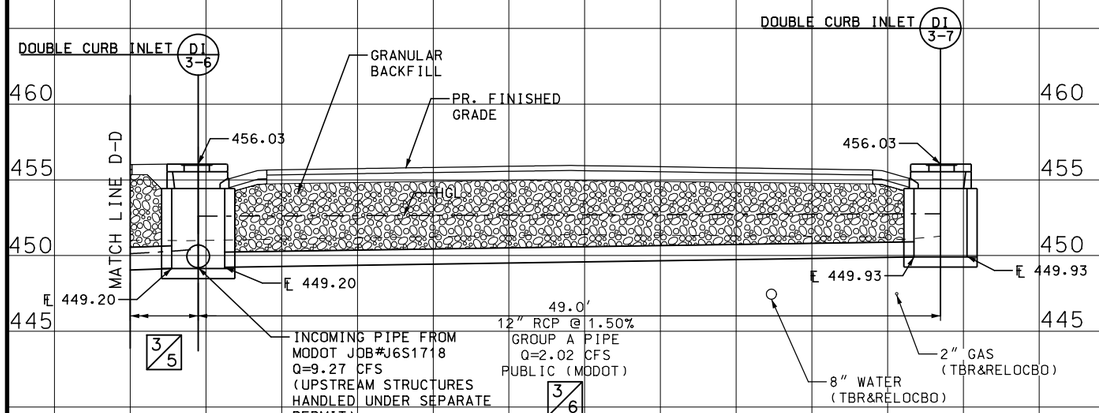
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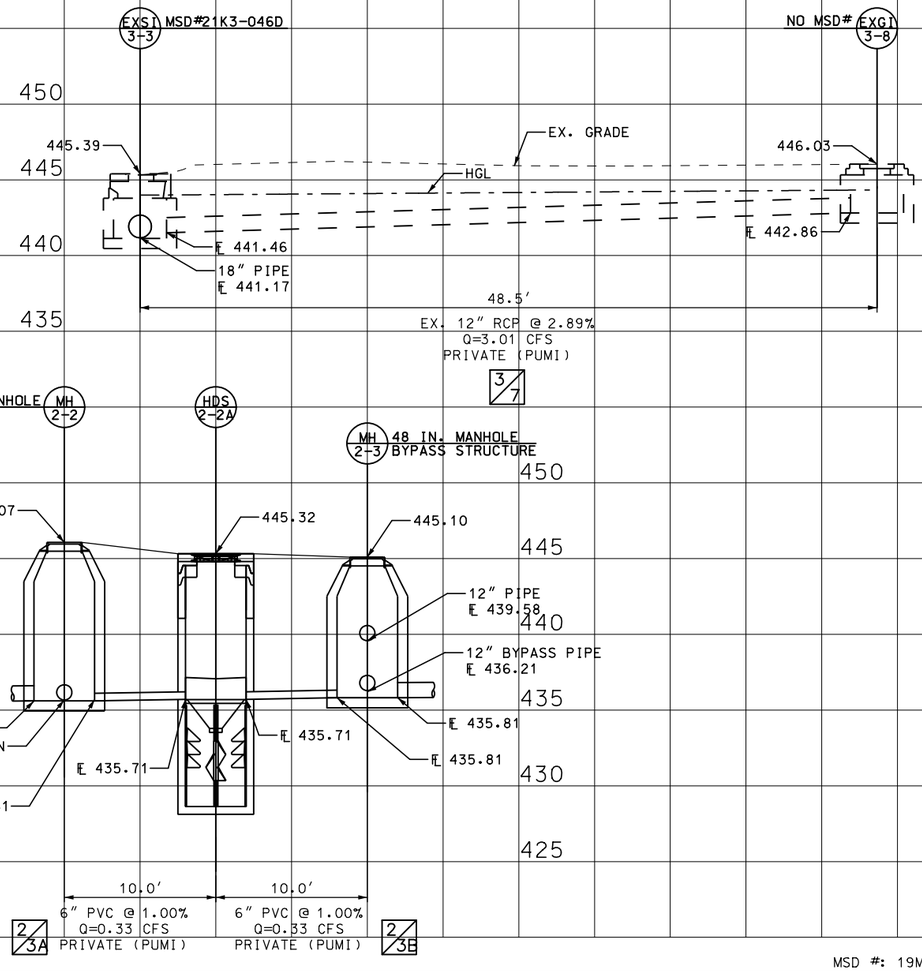
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X/Y X = Network *
Y = Run *









MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 15
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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STORM SEWER PROFILES
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 9 OF 9

REV.

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SHEET SPECIFIC NOTES:

1. PIPE LENGTHS SHOWN ARE CONSIDERED HYDRAULIC LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).
2. ALL PROPOSED SANITARY MANHOLES SHALL HAVE LOCK TYPE, SEALING, WATERTIGHT MANHOLE FRAMES AND COVERS.

X/Y X = Network *
Y = Run *

5'
5'

ADJUST TO GRADE EXMH
MSD#21K3-064S S-1

445.79

PR. FINISHED GRADE

EX. GRADE

EX. 8" VCP IN
℄=434.14

℄ 434.16

EX. 10" VCP OUT
℄=434.14

221.5'
EX 10" VCP @ 0.61%
PUBLIC (MSD)
S/1

MATCH LINE A-A

MATCH LINE B-B

PR. FINISHED GRADE

EX. GRADE

MATCH LINE A-A

MATCH LINE B-B

MATCH LINE C-C

S/1

ADJUST TO GRADE EXMH
MSD#21K3-068S S-2

450.24

PR. FINISHED GRADE

GRANULAR BACKFILL

EX. GRADE

6" WATER
(TBR&RELOCBO)

PR. 48" PIPE
℄=438.09

℄ 435.46

EX. 10" VCP IN
℄=435.51

℄ 435.51

20' OF CONCRETE ENCASEMENT
CENTERED AT CROSSING

S/1

113.6'
10" PVC-C900 PIPE @ 1.00%
PUBLIC (MSD)
S/2

2" GAS
(TBR&RELOCBO)

EX. GRADE

PR. 12" PIPE
℄=438.26

STEEL CASING THROUGH WALL
(GROUT FILL ENDS ONLY)
(SEE DETAIL "A" SHEET 2 OF 2)

6'

7.5'

STEEL CASING THROUGH WALL
(GROUT FILL ENDS ONLY)
(SEE DETAIL "A" SHEET 2 OF 2)

MSD #: 19MSD-00347

DATE PREPARED
2/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

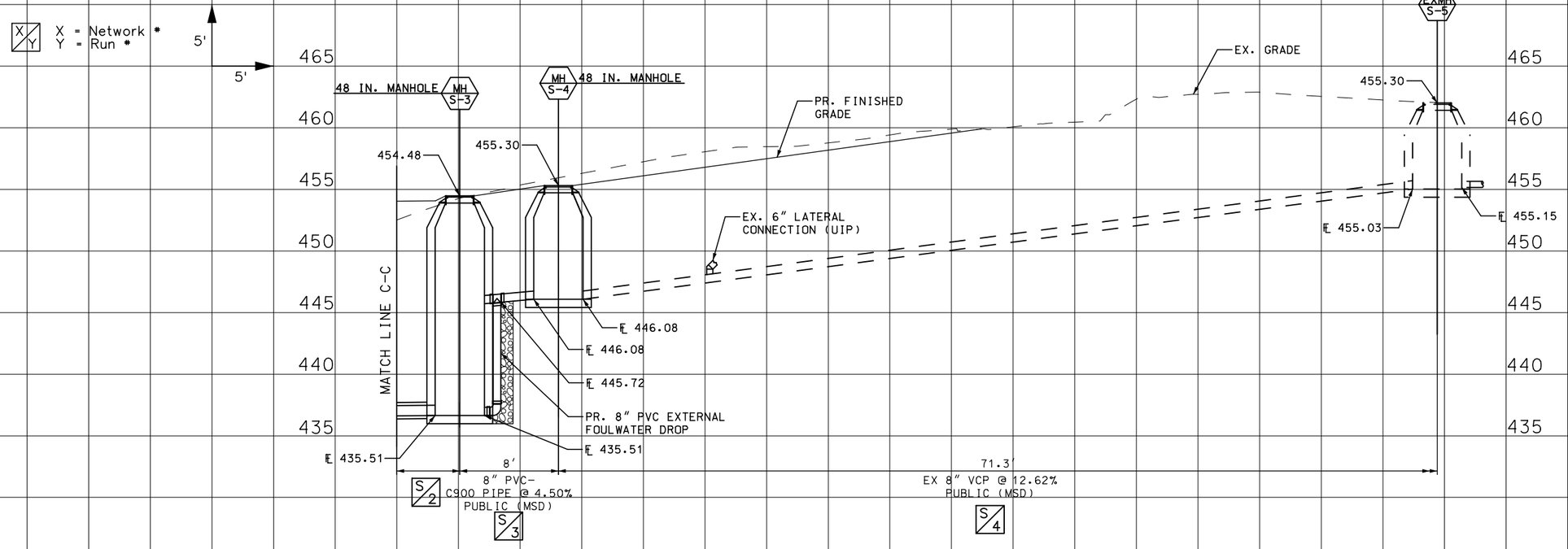
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JEFFERSON CITY, MO 65102
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SANITARY SEWER PROFILES
PEDESTRIAN UNDERPASS
& ROGERS PARKWAY
SHEET 1 OF 2

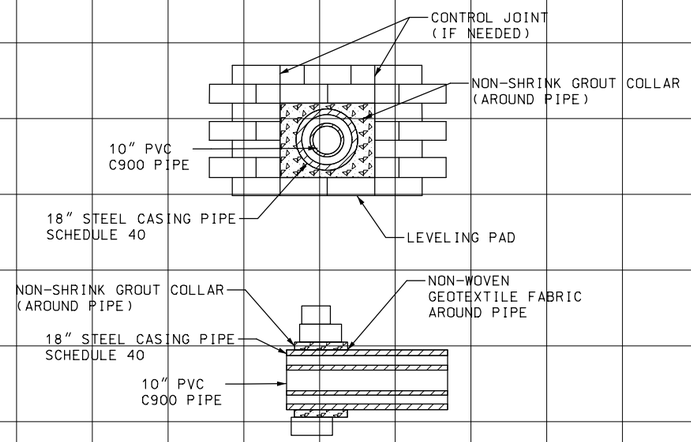
SHEET SPECIFIC NOTES:

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2. ALL PROPOSED SANITARY MANHOLES SHALL HAVE LOCK TYPE, SEALING, WATERTIGHT MANHOLE FRAMES AND COVERS.



PIPE-WALL SECTION DETAIL NOTE:

CONTRACTOR WILL BE REQUIRED TO SUBMIT A SHOP DRAWING DETAILING THE SPACERS



DETAIL "A"
PIPE-WALL SECTION DETAIL

MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 17
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

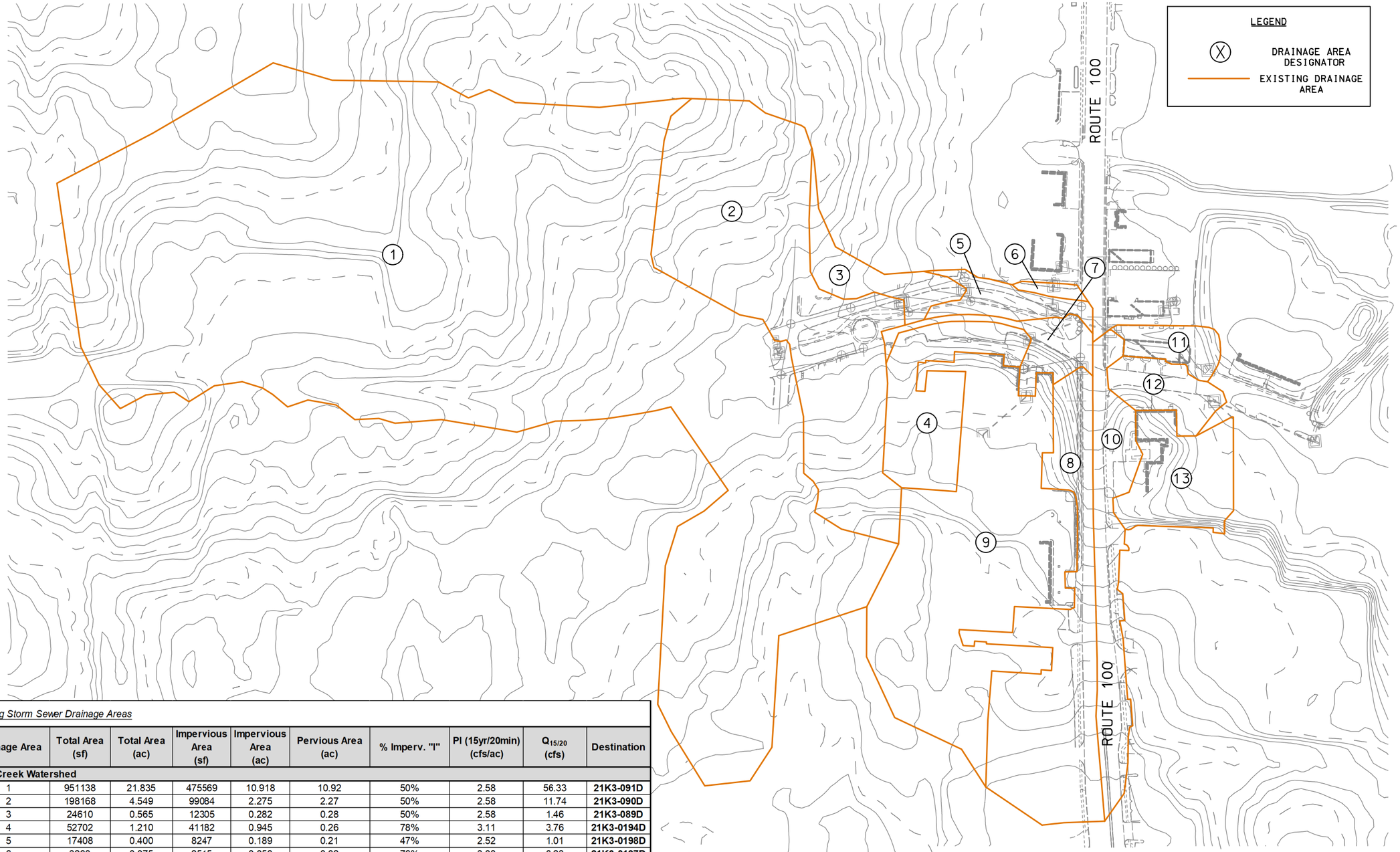
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001528

SANITARY SEWER PROFILES
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 2 OF 2

REV.

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Existing Storm Sewer Drainage Areas

Drainage Area	Total Area (sf)	Total Area (ac)	Impervious Area (sf)	Impervious Area (ac)	Pervious Area (ac)	% Imperv. "I"	PI (15yr/20min) (cfs/ac)	$Q_{15/20}$ (cfs)	Destination
Deer Creek Watershed									
1	951138	21.835	475569	10.918	10.92	50%	2.58	56.33	**21K3-091D**
2	198168	4.549	99084	2.275	2.27	50%	2.58	11.74	**21K3-090D**
3	24610	0.565	12305	0.282	0.28	50%	2.58	1.46	**21K3-089D**
4	52702	1.210	41182	0.945	0.26	78%	3.11	3.76	**21K3-0194D**
5	17408	0.400	8247	0.189	0.21	47%	2.52	1.01	**21K3-0198D**
6	3288	0.075	2515	0.058	0.02	76%	3.08	0.23	**21K3-0197D**
7	20212	0.464	11153	0.256	0.21	55%	2.67	1.24	**OPEN PIT**
8	109888	2.523	90486	2.077	0.45	82%	3.19	8.05	**EX. GRATE 1**
9	195680	4.492	127192	2.920	1.57	65%	2.88	12.94	**21K3-178D**
10	54792	1.258	39428	0.905	0.35	72%	3.01	3.79	**21K3-044D**
11	15061	0.346	10499	0.241	0.10	70%	2.97	1.03	**21K3-074D**
12	21282	0.489	8696	0.200	0.29	41%	2.41	1.18	**21K3-046D**
13	42370	0.973	32838	0.754	0.22	78%	3.11	3.03	**EXGI 3-8**
Total		**39.178**		**22.020**	**17.16**	**56%**	**2.70**	**105.77**	

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SCALE
0 100 200 300

MSD #: 19MSD-00347

DATE PREPARED
2/13/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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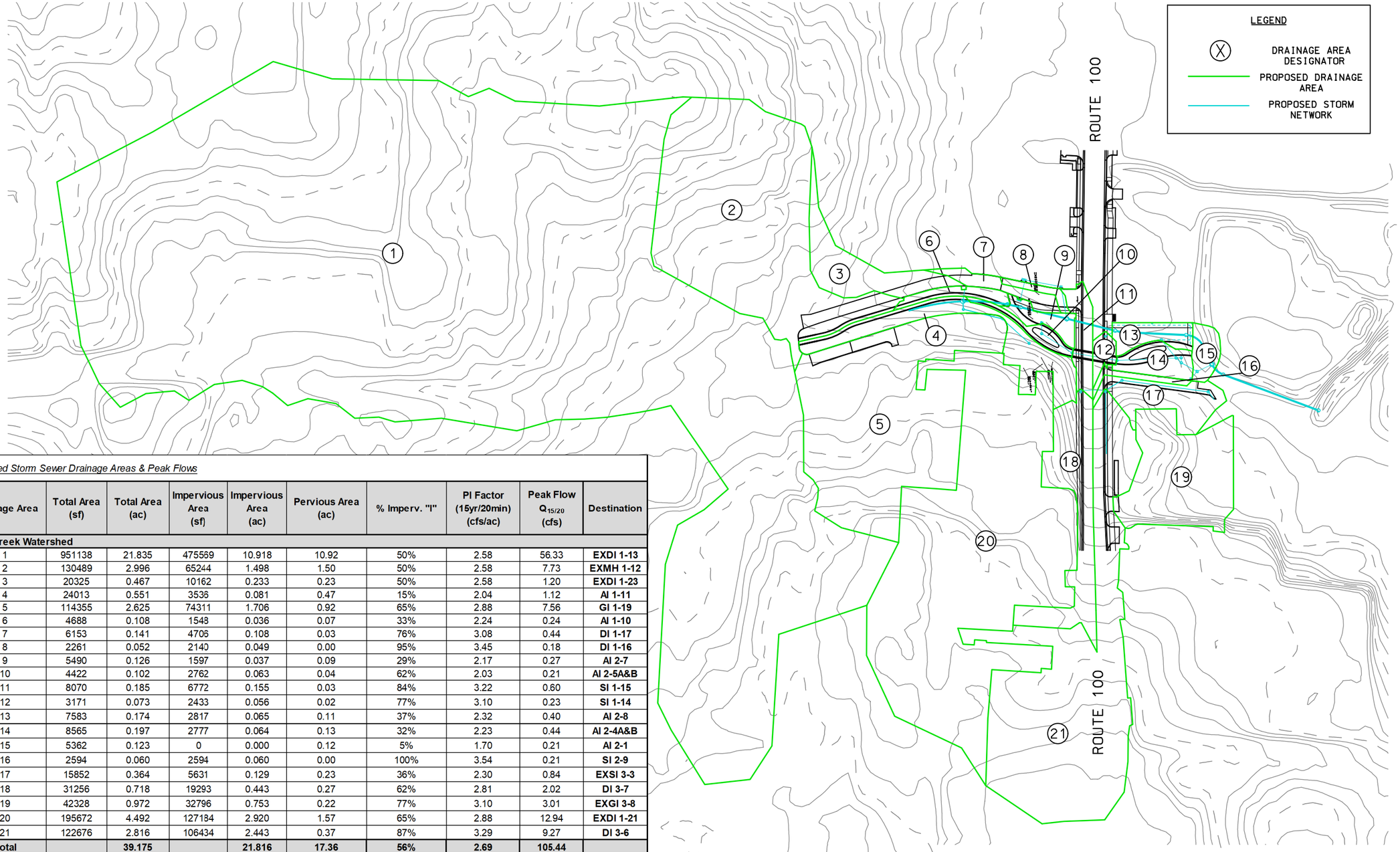
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
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MISSOURI CERT. OF AUTHORITY: 001528

DRAINAGE AREA MAP - EXISTING
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 1 OF 3

REV.

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Proposed Storm Sewer Drainage Areas & Peak Flows

Drainage Area	Total Area (sf)	Total Area (ac)	Impervious Area (sf)	Impervious Area (ac)	Pervious Area (ac)	% Imperv. "I"	PI Factor (15yr/20min) (cfs/ac)	Peak Flow $Q_{15/20}$ (cfs)	Destination
Deer Creek Watershed									
1	951138	21.835	475569	10.918	10.92	50%	2.58	56.33	**EXDI 1-13**
2	130489	2.996	65244	1.498	1.50	50%	2.58	7.73	**EXMH 1-12**
3	20325	0.467	10162	0.233	0.23	50%	2.58	1.20	**EXDI 1-23**
4	24013	0.551	3536	0.081	0.47	15%	2.04	1.12	**AI 1-11**
5	114355	2.625	74311	1.706	0.92	65%	2.88	7.56	**GI 1-19**
6	4688	0.108	1548	0.036	0.07	33%	2.24	0.24	**AI 1-10**
7	6153	0.141	4706	0.108	0.03	76%	3.08	0.44	**DI 1-17**
8	2261	0.052	2140	0.049	0.00	95%	3.45	0.18	**DI 1-16**
9	5490	0.126	1597	0.037	0.09	29%	2.17	0.27	**AI 2-7**
10	4422	0.102	2762	0.063	0.04	62%	2.03	0.21	**AI 2-5A&B**
11	8070	0.185	6772	0.155	0.03	84%	3.22	0.60	**SI 1-15**
12	3171	0.073	2433	0.056	0.02	77%	3.10	0.23	**SI 1-14**
13	7583	0.174	2817	0.065	0.11	37%	2.32	0.40	**AI 2-8**
14	8565	0.197	2777	0.064	0.13	32%	2.23	0.44	**AI 2-4A&B**
15	5362	0.123	0	0.000	0.12	5%	1.70	0.21	**AI 2-1**
16	2594	0.060	2594	0.060	0.00	100%	3.54	0.21	**SI 2-9**
17	15852	0.364	5631	0.129	0.23	36%	2.30	0.84	**EXSI 3-3**
18	31256	0.718	19293	0.443	0.27	62%	2.81	2.02	**DI 3-7**
19	42328	0.972	32796	0.753	0.22	77%	3.10	3.01	**EXGI 3-8**
20	195672	4.492	127184	2.920	1.57	65%	2.88	12.94	**EXDI 1-21**
21	122676	2.816	106434	2.443	0.37	87%	3.29	9.27	**DI 3-6**
Total		**39.175**		**21.816**	**17.36**	**56%**	**2.69**	**105.44**	

DIFFERENTIAL RUNOFF CALCULATIONS

Drainage Area	Total Area (ac)	Imperv. Area (ac)	% Imperv.	PI (cfs/ac)	Runoff (cfs)	Diff. Runoff (cfs)
Existing	39.178	22.020	56.21%	2.700	105.77	-0.33
Proposed	39.175	21.816	55.69%	2.691	105.44	

NOTES:

TOTAL DISTURBED AREA = 1.35 ACRES
(REFER TO BMP DRAINAGE AREA MAP FOR DISTURBED AREA LIMITS)

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SCALE
0 100 200 300
MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 1-9
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

DRAINAGE AREA MAP - PROPOSED
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 2 OF 3

REV.

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LEGEND

- UNTREATED AREAS
- HYDRODYNAMIC SEPARATOR AREA
- AMENDED SOILS DISCONNECT
- PERMEABLE PAVEMENT AREA
- ROADWAY MAINTENANCE AREA
- TIME OF CONCENTRATION (TC) FLOW PATH
- TRIBUTARY AREAS

TOTAL DISTURBED AREA = 1.35 AC.
(EXCLUDES AREAS FOR MAINTENANCE)

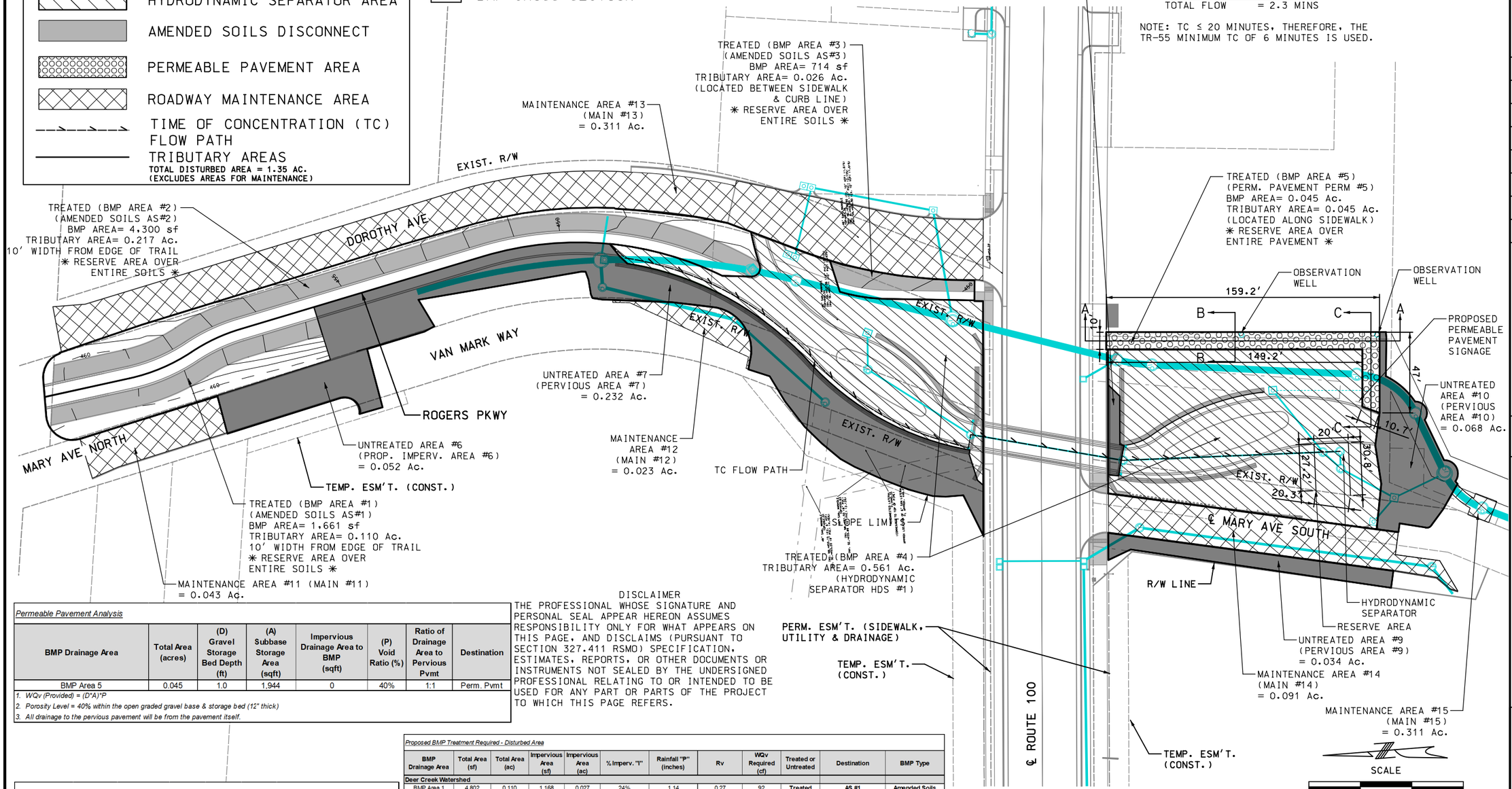
NOTE: REFER TO BMP DETAIL SHEET FOR BMP CROSS SECTION INFORMATION

BMP CROSS SECTION

TIME OF CONCENTRATION

SURFACE FLOW TO AI 2-5B AND PIPE TO HDS 2-2A:
OVERLAND FLOW = 1.2 MINS
PIPE FLOW = 1.1 MINS
TOTAL FLOW = 2.3 MINS

NOTE: TC ≤ 20 MINUTES, THEREFORE, THE TR-55 MINIMUM TC OF 6 MINUTES IS USED.



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Permeable Pavement Analysis

BMP Drainage Area	Total Area (acres)	(D) Gravel Storage Bed Depth (ft)	(A) Subbase Storage Area (sqft)	Impervious Drainage Area to BMP (sqft)	(P) Void Ratio (%)	Ratio of Drainage Area to Pervious Pvmt	Destination
BMP Area 5	0.045	1.0	1,944	0	40%	1:1	Perm. Pvmt

1. WQv (Provided) = (D*A)*P
2. Porosity Level = 40% within the open graded gravel base & storage bed (12" thick)
3. All drainage to the pervious pavement will be from the pavement itself.

Untreated Water Quality Volume

Untreated Drainage Area	Total Area "A" (ac)	Impervious Area (ac)	% Imperv. "I"	Rainfall "P" (inches)	Rv	Untreated WQv (cf)	Destination
Area 6	0.052	0.05	100%	1.14	0.95	154	Imperv. Pvmt #6
Area 7	0.232	0.041	18%	1.14	0.21	151	Pervious Area #7
Area 8	0.008	0.00	0%	1.14	0.05	1	Pervious Area #8
Area 9	0.034	0.00	0%	1.14	0.05	5	Pervious Area #9
Area 10	0.068	0.00	0%	1.14	0.05	11	Pervious Area #10
Total	**0.394**	**0.09**	**24%**			***323***	

1. WQv = [(P)(Rv)(A)]/12
   WQv = Water quality volume (in acre-feet)-converted to cf in chart
   Rv = 0.05 + 0.009 (I) where I is percent impervious cover
   A = drainage area to BMP in acres

Proposed BMP Treatment Required - Disturbed Area

BMP Drainage Area	Total Area (sf)	Total Area (ac)	Impervious Area (sf)	Impervious Area (ac)	% Imperv. "I"	Rainfall "P" (inches)	Rv	WQv Required (cf)	Treated or Untreated	Destination	BMP Type
Deer Creek Watershed											
BMP Area 1	4,802	0.110	1,168	0.027	24%	1.14	0.27	92	Treated	AS #1	Amended Soils
BMP Area 2	9,462	0.217	2,951	0.068	31%	1.14	0.33	223	Treated	AS #2	Amended Soils
BMP Area 3	1,111	0.026	405	0.009	36%	1.14	0.38	30	Treated	AS #3	Amended Soils
BMP Area 4	24,446	0.561	7,918	0.182	32%	1.14	0.34	595	Treated	HDS #1	Hydro. Separator
BMP Area 5	1,944	0.045	0	0.000	0%	1.14	0.05	7	Treated	PERM #5	Perm. Pvmt
Area 6	2,282	0.052	2,282	0.052	100%	1.14	0.95	154	Untreated	Imperv. Pvmt #6	Untreated
Area 7	10,091	0.232	1,796	0.041	18%	1.14	0.21	151	Untreated	Pervious Area #7	Untreated
Area 8	354	0.008	0	0.000	0%	1.14	0.05	1	Untreated	Pervious Area #8	Untreated
Area 9	1,489	0.034	0	0.000	0%	1.14	0.05	5	Untreated	Pervious Area #9	Untreated
Area 10	2,953	0.068	0	0.000	0%	1.14	0.05	11	Untreated	Pervious Area #10	Untreated
Maintenance #11	1,852	0.043	1,852	0.043	100%	1.14	0.95	125	N/A	MAIN #11	N/A-Not Counted
Maintenance #12	993	0.023	993	0.023	100%	1.14	0.95	67	N/A	MAIN #12	N/A-Not Counted
Maintenance #13	13,555	0.311	13,555	0.311	100%	1.14	0.95	918	N/A	MAIN #13	N/A-Not Counted
Maintenance #14	4,038	0.093	4,038	0.093	100%	1.14	0.95	273	N/A	MAIN #14	N/A-Not Counted
Maintenance #15	253	0.006	253	0.006	100%	1.14	0.95	17	N/A	MAIN #15	N/A-Not Counted
Total	**58,934**	**1.353**		**0.379**	**28%**			***1,269***			

1. WQv = [(P)(Rv)(A)]/12
   WQv = Water quality volume (in acre-feet)-converted to cf in chart
   Rv = 0.05 + 0.009 (I) where I is percent impervious cover
   A = drainage area to BMP in acres
2. Total values listed above do not account for the Maintenance Areas as these are not included in the distrubed areas

Amended Soils Disconnect BMP Treatment - Water Quality Volume

Treated BMP Area	Amended Soils Number (AS#)	Total Treated Area "A" (ac)	Treated Impervious Area (ac)	Treated Impervious Area (sf)	% Imperv. "I"	Amended Soils Area (sf)	Ratio Soils : Impev.
BMP Area 1	AS #1	0.110	0.027	1,168	24%	1,661	1.42:1
BMP Area 2	AS #2	0.217	0.068	2,951	31%	4,300	1.45:1
BMP Area 3	AS #3	0.026	0.009	405	36%	714	1.75:1

MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 20
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 2004
ST. LOUIS, MO 63101
(314) 241-8300
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MISSOURI CA # 2005026977-001528

DRAINAGE AREA MAP-BMP
PEDESTRIAN UNDERPASS & ROGERS' PARKWAY
SHEET 3 OF 3

REV.

MATERIALS AND DESIGN
CONCRETE STRUCTURES: DESIGNED FOR H-20 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C857 AND ASTM C858.

SEPARATOR INTERNALS SHALL BE SUBSTANTIALLY CONSTRUCTED OF STAINLESS STEEL, POLYETHYLENE, OR OTHER THERMOPLASTIC MATERIAL APPROVED BY THE MANUFACTURER.

PERFORMANCE
THE STORMWATER TREATMENT UNIT SHALL BE OFF LINE UNIT FOR THE WATER QUALITY TREATMENT FLOW WITH THE BYPASS CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW.

THE STORMWATER TREATMENT UNIT INTERNALS SHALL CONSIST OF(1)SEPARATOR CONE ASSEMBLY, AND (1)SUMP ASSEMBLY WHICH INCLUDES(4) LEGS WITH "TEETH".

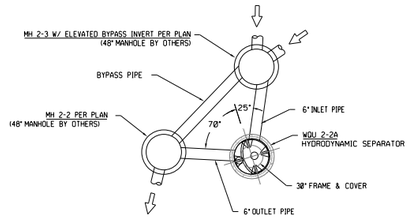
THE HYDRODYNAMIC SEPARATOR SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS ON AN ANNUAL AGGREGATE REMOVAL BASIS. SAID REMOVAL SHALL BE BASED ON FULL-SCALE THIRD PARTY TESTING USING OK-110 MEDIA GRADATION OR EQUIVALENT AND 300 mg/L INFLUENT CONCENTRATION. SAID FULL SCALE TESTING SHALL HAVE INCLUDED SEDIMENT CAPTURE BASED ON ACTUAL TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT.
-OR -
THE HYDRODYNAMIC SEPARATOR SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS USING A MEDIA MIX WITH d_{50}=75 MICRON AND 200 MG/L INFLUENT CONCENTRATION.

MANUFACTURER
MANUFACTURER SHALL BE OF A BARRACUDA HYDRODYNAMIC SEPARATOR AS INDICATED BY MSD AS AN APPROVED MATERIAL.

MAINTENANCE
HYDRODYNAMIC SEPARATOR MUST BE INSPECTED AND MAINTAINED PERIODICALLY. INSPECTION IS MADE BY CHECKING THE DEPTH OF SEDIMENT IN EACH MANHOLE WITH A GRADE STICK OR SIMILAR DEVICE. MAINTENANCE IS REQUIRED WHEN THE SEDIMENT DEPTH IN EXCEEDS 20 INCHES. MINIMUM INSPECTION IS RECOMMENDED TWICE A YEAR TO MAINTAIN OPERATION AND FUNCTION OF THE UNIT.

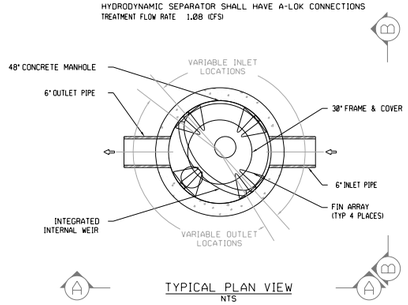
MAINTENANCE INSTRUCTIONS
1. REMOVE THE MANHOLE COVER TO PROVIDE ACCESS TO THE POLLUTANT STORAGE. POLLUTANTS ARE STORED IN THE SUMP,BELOW THE BOWL ASSEMBLY VISIBLE FROM THE SURFACE. YOU'LL ACCESS THIS AREA THROUGH THE 10" DIAMETER ACCESS CYLINDER.
2. USE A VACUUM TRUCK OR OTHER SIMILAR EQUIPMENT TO REMOVE ALL WATER, DEBRIS, OILS AND SEDIMENT.
3. USE A HIGH PRESSURE HOSE TO CLEAN THE MANHOLE OF ALL THE REMAINING SEDIMENT AND DEBRIS. THEN, USE THE VACUUM TRUCK TO REMOVE THE WATER.
4. FILL THE CLEANED MANHOLE WITH WATER UNTIL THE LEVEL REACHES THE INVERT OF THE OUTLET PIPE.
5. REPLACE THE MANHOLE COVER.
6. DISPOSE OF THE POLLUTED WATER, OILS, SEDIMENT AND TRASH AT AN APPROVED FACILITY.
   - LOCAL REGULATIONS PROHIBIT THE DISCHARGE OF SOLID MATERIAL INTO THE SANITARY SYSTEM. CHECK WITH THE LOCAL SEWER AUTHORITY FOR AUTHORITY TO DISCHARGE THE LIQUID.
   - SOME LOCALITIES TREAT THE POLLUTANTS AS LEACHATE. CHECK WITH LOCAL REGULATORS ABOUT DISPOSAL REQUIREMENTS.
   - ADDITIONAL LOCAL REGULATIONS MAY APPLY TO THE MAINTENANCE PROCEDURE.

HYDRODYNAMIC SEPARATOR SPECIFICATIONS

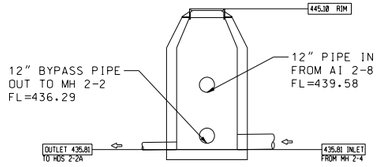


SITE SPECIFIC PLAN VIEW
NTS

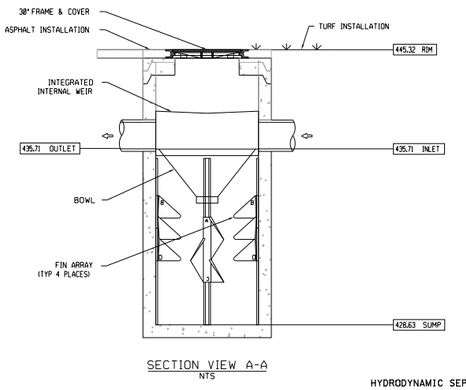
HYDRODYNAMIC SEPARATOR SHALL HAVE A-LOK CONNECTIONS
TREATMENT FLOW RATE 1.88 (CFS)



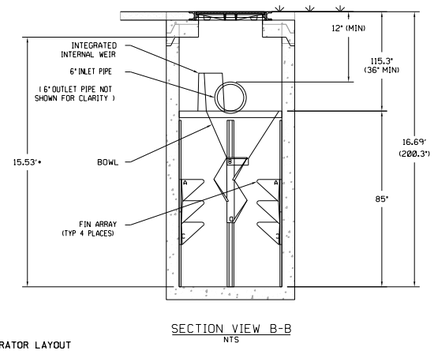
TYPICAL PLAN VIEW
NTS



SECTION VIEW MH 2-3 (BYPASS STRUCTURE)
NTS



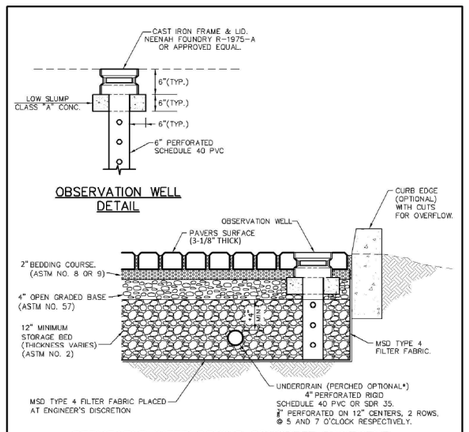
SECTION VIEW A-A
NTS



SECTION VIEW B-B
NTS

HYDRODYNAMIC SEPARATOR LAYOUT

HYDRODYNAMIC SEPARATOR DETAILS



OBSERVATION WELL DETAIL

PERMEABLE INTERLOCKING CONCRETE PAVEMENT TYPICAL SECTION

* ADDITIONAL UNDERDRAINS MAY BE PERCHED ABOVE THE REQUIRED STORAGE ELEVATION AND WITHIN THE STORAGE BED IN ORDER TO PROTECT THE PAVER BLOCKS.

METROPOLITAN ST. LOUIS SEWER DISTRICT *DETAIL LIBRARY*	CATAGORY: PAVEMENT
DESCRIPTION: PERMEABLE INTERLOCKING CONCRETE PAVEMENT (TYPICAL SECTION)	TITLE: PERMEABLE INTERLOCKING CONCRETE PAVEMENT (1)
10/15/2012	DRAWN BY: CADD SECTION
	DWG NAME: PVMT06-1

PERMEABLE PAVEMENT DETAIL

PERVIOUS INTERLOCKING CONCRETE PAVEMENT

POWER WASHING, RESURFACING, AND THE USE OF SAND ABRASIVES FOR WINTER TIRE TRACKING ARE PROHIBITED.

CARE SHALL BE TAKEN DURING SNOW PLOWING.

PICP INFORMATION SIGN
(NOT TO SCALE)

NOTES:
1. STANDARD 18"X12"X0.080" ALUMINUM SIGN FACE WITH BLACK TEXT ON WHITE BACKGROUND GALVANIZED STEEL POST 9'-6" LONG.
2. SET BOTTOM OF SIGN 5'-0" ABOVE GRADE.
3. SET BOTTOM OF POST 3'-0" BELOW GRADE.

METROPOLITAN ST. LOUIS SEWER DISTRICT *DETAIL LIBRARY*	CATAGORY: PAVEMENT
DESCRIPTION: PERVIOUS INTERLOCKING CONCRETE PAVEMENT (INFORMATION SIGN)	TITLE: PICP INFORMATION SIGN
06/21/2010	DRAWN BY: JTP

PICP INFORMATION SIGNAGE DETAIL

PERMEABLE PAVEMENT DETAILS

SHOP DRAWINGS:

THE PROJECT ENGINEER SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN MISSOURI FOR APPROVAL TO MSD PRIOR TO CONSTRUCTION OF THESE STRUCTURES. STRUCTURES SHALL BE DESIGNED TO SUSTAIN HS-20 LOADS. PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.

SHOP DRAWINGS FOR BMPS:

MSD SHOP DRAWING SUBMITTAL REQUIRED FOR BMP AND ITS COMPONENTS PRIOR TO CONSTRUCTION.
MSD CONTACT: PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.

PERMEABLE INTERLOCKING CONCRETE PAVEMENT (PICP):

THE CONTRACTOR SHALL OBTAIN THE CONCRETE PAVER MANUFACTURER'S CERTIFICATION THAT THE PAVING UNITS SUPPLIED TO CONSTRUCT THE PICP HAVE BEEN APPROVED BY MSD AND MEET THE REQUIREMENTS IN ASTM C936. THIS CERTIFICATION SHALL BE PROVIDED TO THE MSD DIVISION INSPECTOR. THE CERTIFICATION SHALL INCLUDE THE MANUFACTURER'S NAME, AND STATE THAT THE PICP SUPPLIED MEETS THE ASTM C936 SPECIFICATIONS, (TESTING SHOULD BE CURRENT WITHIN PREVIOUS 12 MONTHS) AND THAT THE PAVING MATERIALS MEET ALL REQUIREMENTS AS EVALUATED UNDER THE MANUFACTURER'S QUALITY CONTROL PROGRAM.

PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM MSD TO CONSTRUCT THE PERMEABLE INTERLOCKING CONCRETE PAVEMENT (PICP) FOR A GIVEN PROJECT, THE ENGINEER PROVIDING THE AS-BUILT CERTIFICATION SHALL VERIFY THAT THE INSTALLING CONTRACTOR HAS:

PAST HISTORY DEMONSTRATING APPLICABLE EXPERIENCE.

THE PICP INSTALLATION CONTRACTOR MUST HAVE A CURRENT LEVEL 1 CERTIFICATE FROM THE INTERLOCKING CONCRETE PAVEMENT INSTITUTE'S CONCRETE PAVER INSTALLER PROGRAM.

THE CONTRACTOR SHALL PREVENT AND DIVERT SEDIMENT FROM ENTERING THE SUBBASE AND PAVEMENT SURFACE UNTIL THE TRIBUTARY AREAS ARE DEEMED STABLE BY THE ASSIGNED MSD INSPECTOR.

VEHICULAR TRAFFIC SHALL BE PROHIBITED ON THE PICP UNTIL THE SITE IS STABLE TO PREVENT MUD FROM BEING DEPOSITED BY VEHICLES.

NO PRODUCT OR MATERIAL SUBSTITUTIONS ARE PERMITTED UNLESS PREVIOUSLY APPROVED BY THE MSD PLAN REVIEW ENGINEER OR BY THE MSD FIELD INSPECTOR ASSIGNED TO THE PROJECT. ALL SUBSTITUTIONS SHALL BE PRESENTED TO MSD THROUGH THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE PICP SYSTEM.

STONE SHOULD BE CLEAN, WASHED, 90 PERCENT FRACTURED FACES WITH A LOS ANGELES ABRASION INDEX OF LESS THAN 40 AND CONFORM TO THE GRADING REQUIREMENTS IN ASTM D448.

DO NOT CLEAN THE PAVER SURFACE WITH HIGH-PRESSURE HOSES OR ABRASIVES. WHEN CLEANING IS NECESSARY, COMBINATION CLEANING MACHINES THAT COMBINE A WET SPRAY AND VACUUM PROCESS HAVE BEEN FOUND TO BE EFFECTIVE.

A PERMANENT SIGN SHALL BE POSTED WARNING THAT CARE SHOULD BE TAKEN DURING SNOW PLOWING; AND PROHIBIT THE FOLLOWING: RESURFACING, THE USE OF SAND ABRASIVES FOR WINTER TIRE TRACTION, AND THE USE OF POWER WASHERS.

AT COMPLETION OF THE PROJECT, PRIOR TO FINAL DEDICATION, AN AS-BUILT CERTIFICATION, SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER, SHALL BE PROVIDED.

MANUFACTURER'S PREQUALIFICATION
THE PICP MANUFACTURER SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A QUALITY CONTROL PROGRAM TO ASSURE COMPLIANCE WITH REQUIREMENTS IN ASTM C936. PRIOR TO USE ON PROJECTS REQUIRING MSD APPROVAL, THE MANUFACTURE SHALL SUBMIT FIVE (5) COPIES OF A COMPLETED PERVIOUS PAVING APPLICATION AS WELL AS DOCUMENTATION DESCRIBING THE QUALITY CONTROL PROGRAM. THE COMPLETED APPLICATION AND OTHER DOCUMENTATION SHALL BE SUBMITTED TO:

MSD BMP COMMITTEE
METROPOLITAN ST. LOUIS SEWER DISTRICT
2350 MARKET STREET
ST. LOUIS, MISSOURI 63103-2555

MATERIAL CERTIFICATION
THE CONTRACTOR SHALL OBTAIN THE CONCRETE PAVER MANUFACTURER'S CERTIFICATION THAT THE PAVING UNITS SUPPLIED TO CONSTRUCT THE PICP HAVE BEEN APPROVED BY MSD AND MEET THE REQUIREMENTS IN ASTM C936. THIS CERTIFICATION SHALL BE PROVIDED TO THE MSD DIVISION INSPECTOR. THE CERTIFICATION SHALL INCLUDE THE MANUFACTURER'S NAME, AND STATE THAT THE PICP SUPPLIED MEETS THE ASTM C936 SPECIFICATIONS, (TESTING SHOULD BE CURRENT WITHIN PREVIOUS 12 MONTHS) AND THAT THE PAVING MATERIALS MEET ALL REQUIREMENTS AS EVALUATED UNDER THE MANUFACTURER'S QUALITY CONTROL PROGRAM.

CONTRACTOR PREQUALIFICATION
PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM MSD TO CONSTRUCT THE PERMEABLE INTERLOCKING CONCRETE PAVEMENT (PICP) FOR A GIVEN PROJECT. THE ENGINEER PROVIDING AS-BUILT CERTIFICATION SHALL VERIFY THAT THE INSTALLING CONTRACTOR HAS:

1. PAST HISTORY DEMONSTRATING APPLICABLE EXPERIENCE.
2. THE PICP INSTALLATION CONTRACTOR MUST HAVE A CURRENT LEVEL 1 CERTIFICATE FROM THE INTERLOCKING CONCRETE PAVEMENT INSTITUTE'S CONCRETE PAVER INSTALLER PROGRAM.

AS-BUILT CERTIFICATION
AT COMPLETION OF THE PROJECT, PRIOR TO FINAL DEDICATION, AN AS-BUILT CERTIFICATION, SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER, SHALL BE PROVIDED CERTIFYING:

1. THE PICP SYSTEM WAS BUILT IN ACCORDANCE WITH THE DETAILS, DIMENSIONS, AND MATERIALS AS APPROVED BY MSD FOR THIS PROJECT.
2. THE PICP SYSTEM WAS INSTALLED BY A QUALIFIED CONTRACTOR, AND HAS SATISFIED ALL APPLICABLE QUALITY CONTROL AND PERFORMANCE TESTS.
3. THE PICP SYSTEM INSTALLATION WAS WITNESSED BY THE CERTIFYING ENGINEER OR A REPRESENTATIVE UNDER HIS DIRECT SUPERVISION.

MSD #: 19MSD-00347

DATE PREPARED: 2/13/2020
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 21
COUNTY: ST. LOUIS
JOB NO.: J6S1718B
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

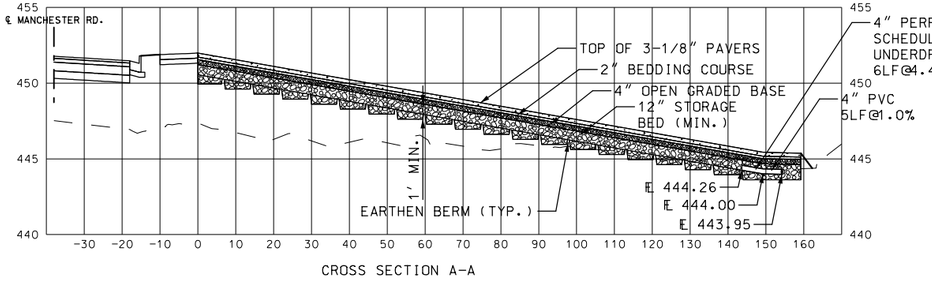
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

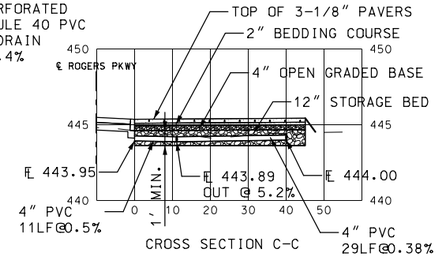
TWM ENGINEERING GEOSPATIAL SERVICES
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ST. LOUIS, MO 63101
(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001528

BMP DETAILS
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 1 OF 2

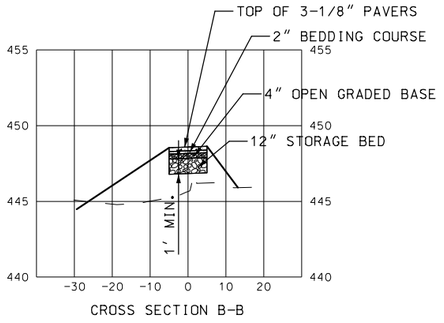
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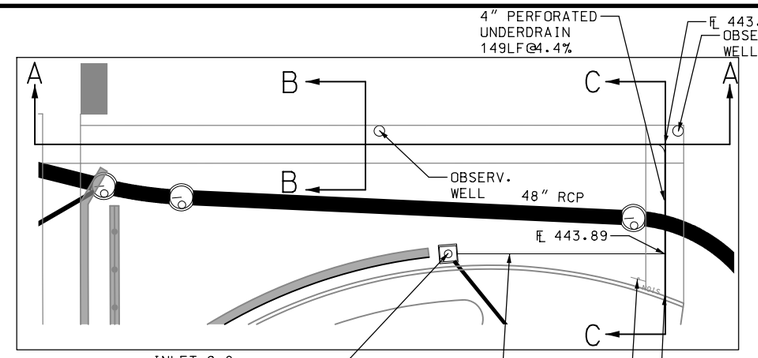
CROSS SECTION A-A



CROSS SECTION C-C

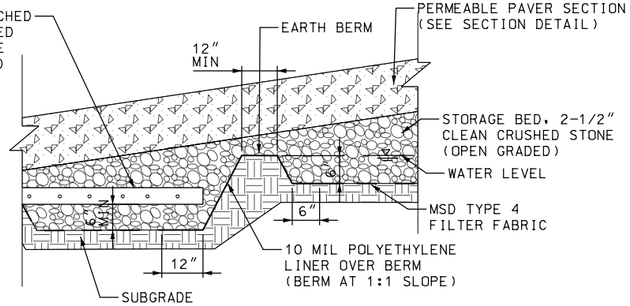


CROSS SECTION B-B

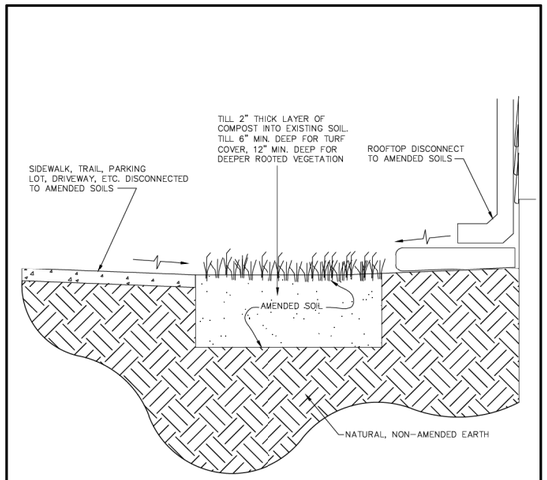


BMP CROSS SECTIONS - PERMEABLE PAVEMENT

SCALE: 1"=10' HORIZONTAL
1"=2.5' VERTICAL



EARTHERN BERM DETAIL



TYPICAL SECTION
(NOT TO SCALE)

NOTES:

(1) SEE TABLE 1. AMENDED SOILS DISCONNECTION CRITERIA FOR DESIGN REQUIREMENTS
(2) TILL SOIL SUBGRADE PRIOR TO COMPOST ADDITION, AND TILL AFTER COMPOST ADDITION
(3) CLEAN ALL OBJECTS LARGER THAN 2" FROM AMENDED SOIL AREA
(4) FOR TURF COVER, COMPLETE WITH FINE GRADING AND SODDING IN ACCORDANCE WITH MSD STANDARD SPECIFICATIONS
(5) SEE COMPOST SPECIFICATION FOR COMPOST MATERIAL PROPERTIES AND TESTING REQUIREMENTS

METROPOLITAN ST. LOUIS SEWER DISTRICT *DETAIL LIBRARY*	CATAGORY: BMP TITLE: AMENDED SOILS DISCONNECTION DETAIL
DESCRIPTION ROOFTOP AND NON-ROOFTOP DISCONNECTION EXAMPLE	DRAWN BY: JTP

05/31/2013

AMENDED SOILS DISCONNECT DETAIL

AMENDED SOILS DISCONNECT:

COMPOST APPLICATION PROCEDURE
CLEAR SURFACE OF OBSTRUCTIONS AND PROPERLY DISPOSE. THE SOIL SURFACE SHALL BE REASONABLY FREE OF ALL OBJECTS, INCLUDING STONE AND RUBBLE, GREATER THAN 2 INCHES, AND OTHER MATERIAL WHICH WILL INTERFERE WITH PLANTING AND SUBSEQUENT SITE MAINTENANCE.

1. ROTOTILL TO A DEPTH OF 6-8" FOR TURF COVER AND A MINIMUM OF 12" FOR DEEP ROOTED VEGETATION. IF THE SOIL IS TOO DENSE FOR A ROTOTILLER, THE SOIL SHOULD FIRST BE BROKEN UP INTO LARGE AGGREGATES USING A SOIL RIPPER.

2. IF OBSTRUCTIONS ARE UNEARTHED DURING TILLING, CLEAR OBSTRUCTIONS AND PROPERLY DISPOSE OF. THE SOIL SURFACE SHALL BE REASONABLY FREE OF ALL OBJECTS, INCLUDING STONE AND RUBBLE, GREATER THAN 2 INCHES, AND OTHER MATERIAL WHICH WILL INTERFERE WITH PLANTING AND SUBSEQUENT SITE MAINTENANCE.

3. DISTRIBUTE COMPOST EVENLY TO A MINIMUM DEPTH OF 2 INCHES OVER THE SOIL SURFACE.

4. REROTOTILL SEVERAL TIMES IN PERPENDICULAR DIRECTIONS TO INCORPORATE COMPOST AND OTHER SOIL AMENDMENTS.

5. COMPLETE WITH FINE GRADING AND SODDING.

6. WATER THOROUGHLY. ALLOW SOIL TO SETTLE FOR ONE WEEK.

COMPOST
COMPOST SHALL BE MATURE, STABLE, WEED FREE, AND PRODUCED BY AEROBIC DECOMPOSITION OF ORGANIC MATTER. COMPOST FEEDSTOCK MAY INCLUDE, BUT IS NOT LIMITED TO: AGRICULTURAL, FOOD OR INDUSTRIAL RESIDUALS; CLASS A BIOSOLIDS AS DEFINED IN THE EPA CFR TITLE 40, PART 503; YARD TRIMMINGS, OR SOURCE-SEPARATED MUNICIPAL SOLID WASTE. THE PRODUCT MUST NOT CONTAIN ANY VISIBLE REFUSE OR OTHER PHYSICAL CONTAMINANTS, SUBSTANCES TOXIC TO PLANTS, OR OVER 5% SAND, SILT, CLAY OR ROCK MATERIAL BY DRY WEIGHT. THE PRODUCT SHALL POSSESS NO OBJECTIONABLE ODORS. THE PRODUCT MUST MEET ALL APPLICABLE USEPA CFR, TITLE 40, PART 503 STANDARDS FOR CLASS A BIOSOLIDS. THE MOISTURE LEVEL SHALL BE SUCH THAT NO VISIBLE WATER OR DUST IS PRODUCED WHEN HANDLING THE MATERIAL.

TESTING. PRIOR TO DELIVERY OF ANY COMPOST TO THE SITE AND AS PART OF SHOP DRAWING REVIEW, THE FOLLOWING DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR TO THE DISTRICT INSPECTOR:

* FEEDSTOCK PERCENTAGE IN THE FINAL COMPOST PRODUCT.
* A STATEMENT THAT THE COMPOST MEETS FEDERAL AND STATE HEALTH AND SAFETY REGULATIONS.
* A STATEMENT THAT THE COMPOSTING PROCESS HAS MET TIME AND TEMPERATURE REQUIREMENTS.
* A COPY OF THE LAB ANALYSIS, LESS THAN FOUR MONTHS OLD, PERFORMED BY A SEAL OF TESTING ASSURANCE CERTIFIED LABORATORY VERIFYING THAT THE COMPOST MEETS THE PHYSICAL REQUIREMENTS AS DESCRIBED IN TABLE 1.

SOD
SOD FERTILIZING, SODDING AND WATERING TO BE IN ACCORDANCE WITH MSD STANDARD CONSTRUCTION SPECIFICATIONS PART 8 SECTION F.

SHOP DRAWINGS:
MSD SHOP DRAWING SUBMITTAL REQUIRED FOR BMP AND ITS COMPONENTS PRIOR TO CONSTRUCTION. MSD CONTACT: PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.

Parameter	Range	Testing Method
pH	5.0-8.5	TMECC 4.11A
Soluble Salt Concentration	< 10dS/m	TMECC 4.10-A
Moisture	30-60% wet weight basis	SMEWW 2540B
Organic Matter	30-65% dry weight basis	TMECC 5.07-A
Total Nitrogen (N)	>1.00% dry weight basis	TMECC 04.02-D
Phosphate (P_2O_5)	>0.50% dry weight basis	TMECC 04.03-A
Potash (K_2O)	>0.10% dry weight basis	TMECC 04.04-A
Particle Size	95% pass through 5/8" screen or smaller	TMECC 2.02-B
Stability (Carbon Dioxide evolution rate)	>80% relative to positive control	TMECC 5.08-B
Maturity (Seed emergence and seedling vigor)	>80% relative to positive control	TMECC 5.05-A
Physical contaminants (man made inerts)	<1% dry weight basis	TMECC 3.08-A
Chemical contaminants	**Meet or exceed US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3 levels:**	
Arsenic	< 41 ppm	TMECC 4.06-AS
Cadmium	< 39 ppm	TMECC 4.06-CD
Copper	< 1,500 ppm	TMECC 4.06-CU
Lead	< 300 ppm	TMECC 4.06-PB
Mercury	< 17 ppm	TMECC 4.06-HG
Molybdenum	< 75 ppm	TMECC 4.06-MO
Nickel	< 420 ppm	TMECC 4.06-NI
Selenium	< 100 ppm	TMECC 4.06-SE
Zinc	< 2,800 ppm	TMECC 4.06-ZN
Biological contaminants (pathogens)	**Meet or exceed US EPA Class A standard, 40 CFR § 503.32(a) levels:**	
Fecal coliform	< 1,000 MPN per gram, dry weight basis	TMECC 7.01

TABLE 1: PHYSICAL REQUIREMENTS FOR COMPOST

MSD #: 19MSD-00347

DATE PREPARED 2/13/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 22
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE | REVISION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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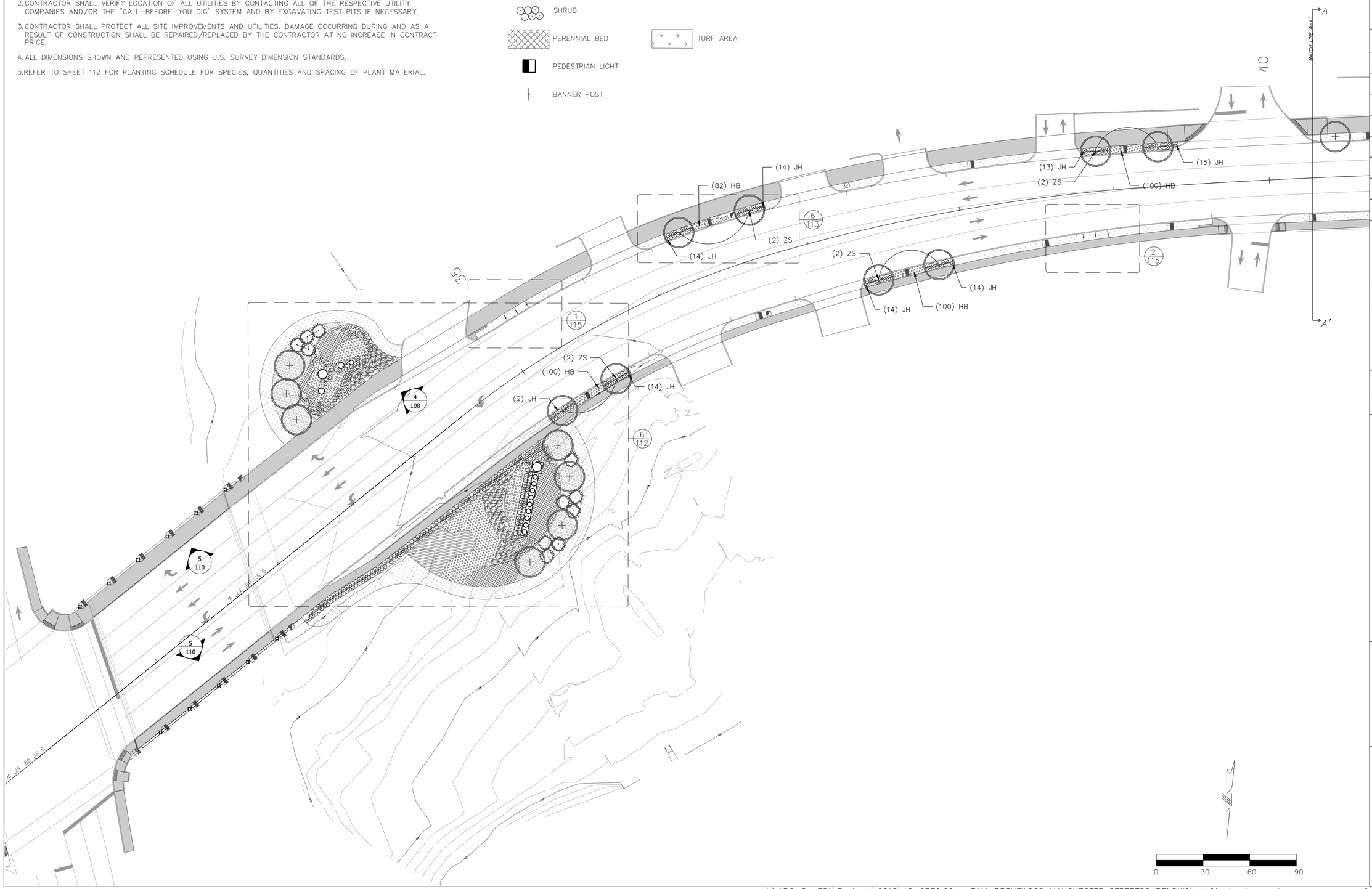
BMP DETAILS
PEDESTRIAN UNDERPASS & ROGERS PARKWAY
SHEET 2 OF 2

GENERAL NOTES

1. ALL SITE AND UTILITY INFORMATION SHOWN IS BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN. VERIFY ALL SITE CONDITIONS, ELEVATIONS, UTILITY LOCATIONS AND DIMENSIONING INCLUDING NEW IMPROVEMENTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER REPRESENTATIVE OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES AND/OR THE "CALL-BEFORE-YOU DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
3. CONTRACTOR SHALL PROTECT ALL SITE IMPROVEMENTS AND UTILITIES. DAMAGE OCCURRING DURING AND AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT NO INCREASE IN CONTRACT PRICE.
4. ALL DIMENSIONS SHOWN AND REPRESENTED USING U.S. SURVEY DIMENSION STANDARDS.
5. REFER TO SHEET 112 FOR PLANTING SCHEDULE FOR SPECIES, QUANTITIES AND SPACING OF PLANT MATERIAL.

LEGEND

- CANOPY TREE
- EVERGREEN TREE
- SHRUB
- PERENNIAL BED
- TURF AREA
- PEDESTRIAN LIGHT
- BANNER POST



0 30 60 90

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DATE

DATE PREPARED 02/05/20

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 100

COUNTY ST. LOUIS

JOB NO. J6S1718B

CONTRACT ID. -

PROJECT NO. -

BRIDGE NO. -

DATE	DESCRIPTION
02/05/20	CD REVIEW SET

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ARCTURIS
design collaborative
720 Olive Street
Suite 200
Saint Louis, MO 63101
(314) 206-7100

LANDSCAPE SHEETS

MANCHESTER ROAD
CORRIDOR ENHANCEMENTS

SHEET 1 OF 16

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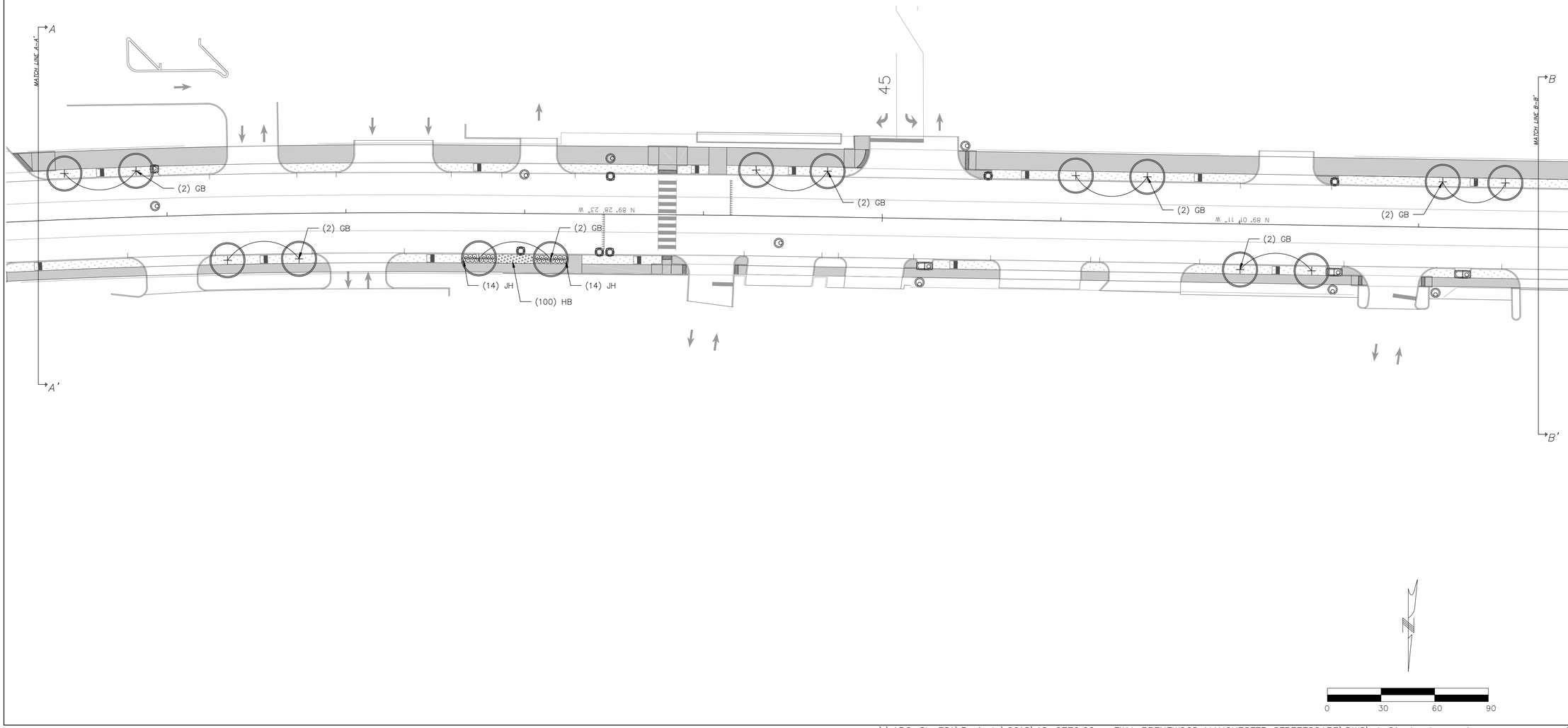
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LEGEND

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DESCRIPTION	DATE
CD REVIEW SET	02/05/20

DATE PREPARED: 02/05/20

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	101

COUNTY: ST. LOUIS

JOB NO.: J6S1718B

CONTRACT ID.: -.-

PROJECT NO.: -.-

BRIDGE NO.: -.-

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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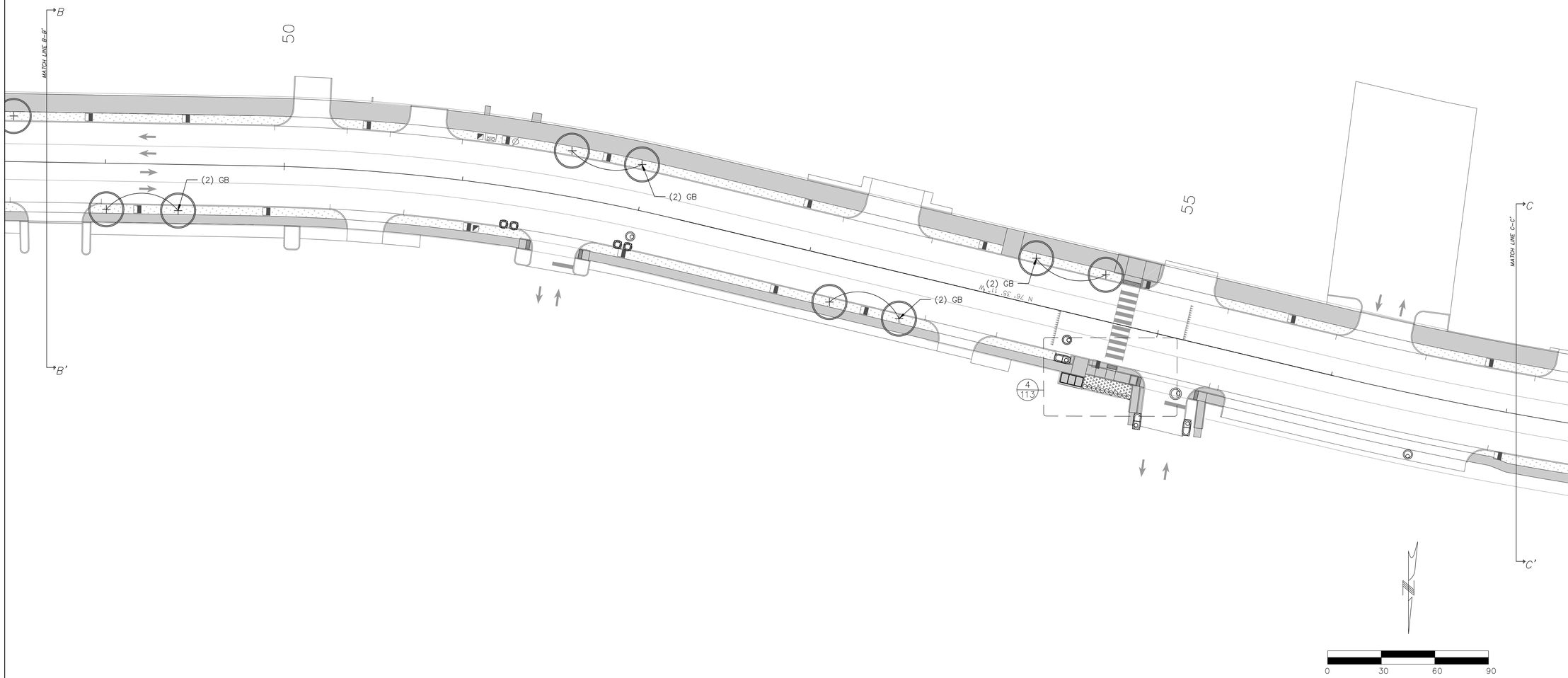
LANDSCAPE SHEETS
MANCHESTER ROAD
CORRIDOR ENHANCEMENTS
SHEET 2 OF 16

GENERAL NOTES

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LEGEND

- CANOPY TREE
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DATE

DATE PREPARED
02/05/20

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	102

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
_._

PROJECT NO.
_._

BRIDGE NO.
_._

DESCRIPTION	DATE
CD REVIEW SET	02/05/20

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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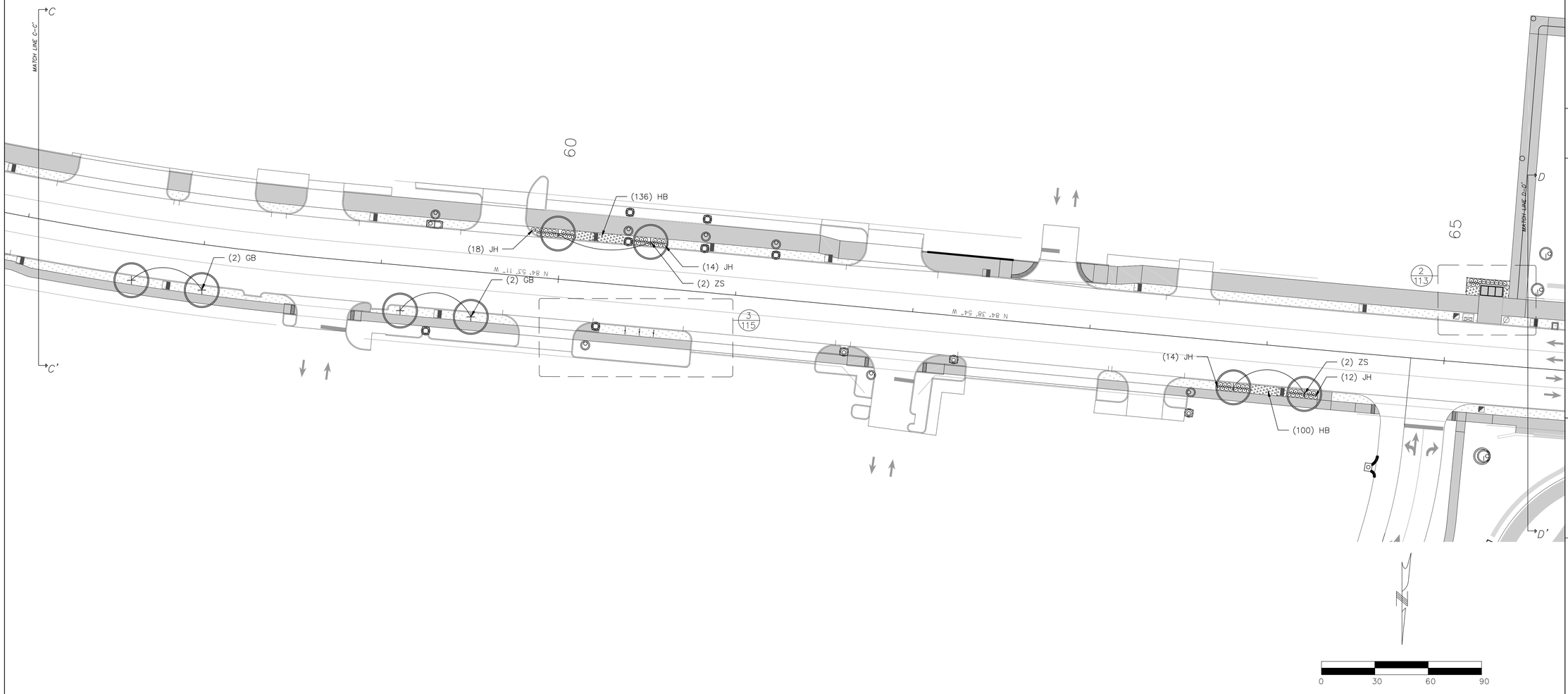
SHEET 3 OF 16

GENERAL NOTES

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LEGEND

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ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	103

COUNTY
ST. LOUIS

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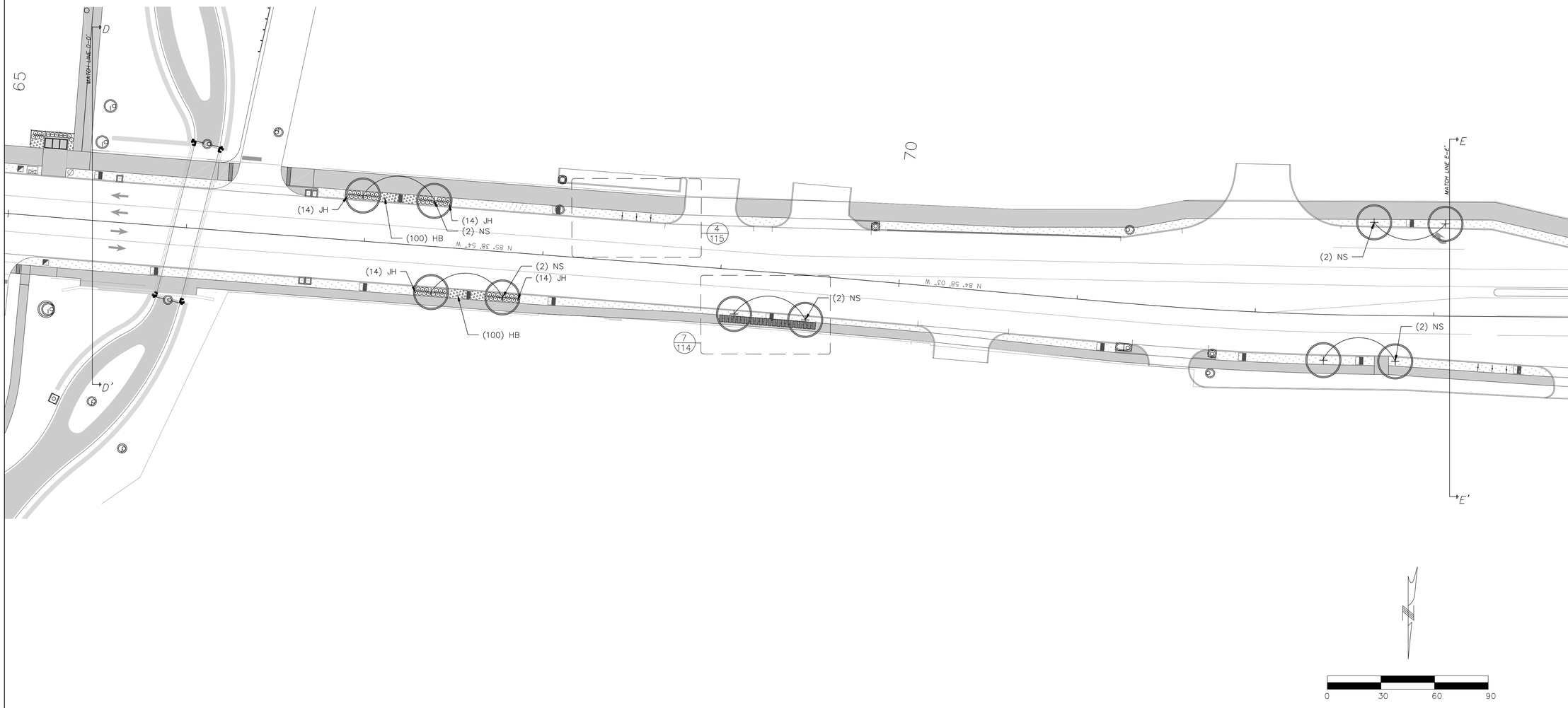
LANDSCAPE SHEETS
MANCHESTER ROAD
CORRIDOR ENHANCEMENTS
SHEET 4 OF 16

GENERAL NOTES

1. ALL SITE AND UTILITY INFORMATION SHOWN IS BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN. VERIFY ALL SITE CONDITIONS, ELEVATIONS, UTILITY LOCATIONS AND DIMENSIONING INCLUDING NEW IMPROVEMENTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER REPRESENTATIVE OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS.
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5. REFER TO SHEET 112 FOR PLANTING SCHEDULE FOR SPECIES, QUANTITIES AND SPACING OF PLANT MATERIAL.

LEGEND

- CANOPY TREE
- EVERGREEN TREE
- SHRUB
- PERENNIAL BED
- TURF AREA
- PEDESTRIAN LIGHT
- BANNER POST



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DATE
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DATE PREPARED
02/05/20

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	104

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.
_._

PROJECT NO.
_._

BRIDGE NO.
_._

DESCRIPTION	DATE
CD REVIEW SET	02/05/20

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ARCTURIS
design collaborative
720 Olive Street
Suite 200
Saint Louis, MO 63101
(314) 206-7100

LANDSCAPE SHEETS
MANCHESTER ROAD
CORRIDOR ENHANCEMENTS
SHEET 5 OF 16

\\ARC-SL-FS1\Projects\2018\18-2770.00 - TWM-BRENTWOOD MANCHESTER STREETSCAPE\DWG\pl-01 streetscape.dwg 2:39 PM 2/5/2020

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LEGEND

CANOPY TREE

EVERGREEN TREE

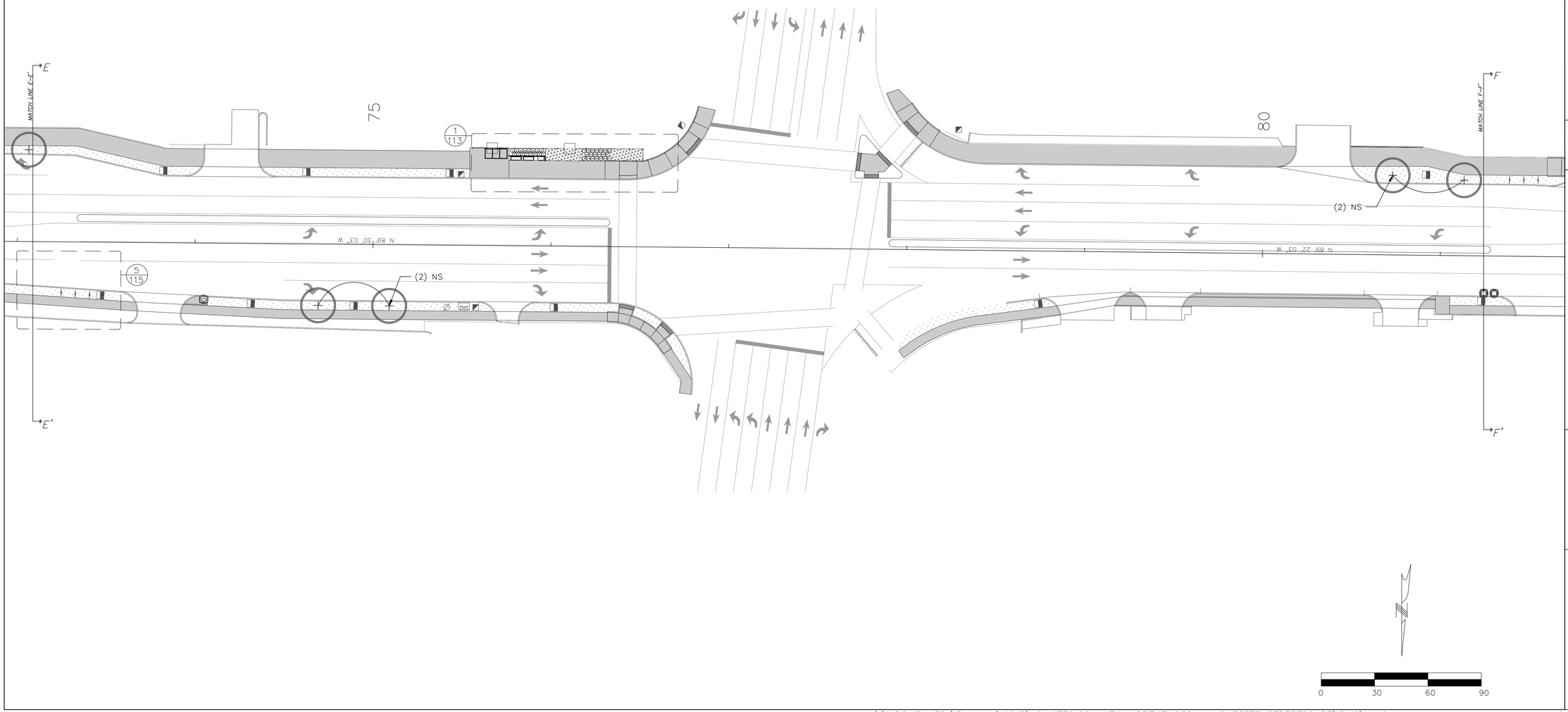
SHRUB

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LANDSCAPE SHEETS

MANCHESTER ROAD
CORRIDOR ENHANCEMENTS

SHEET 6 OF 16

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LEGEND

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EVERGREEN TREE

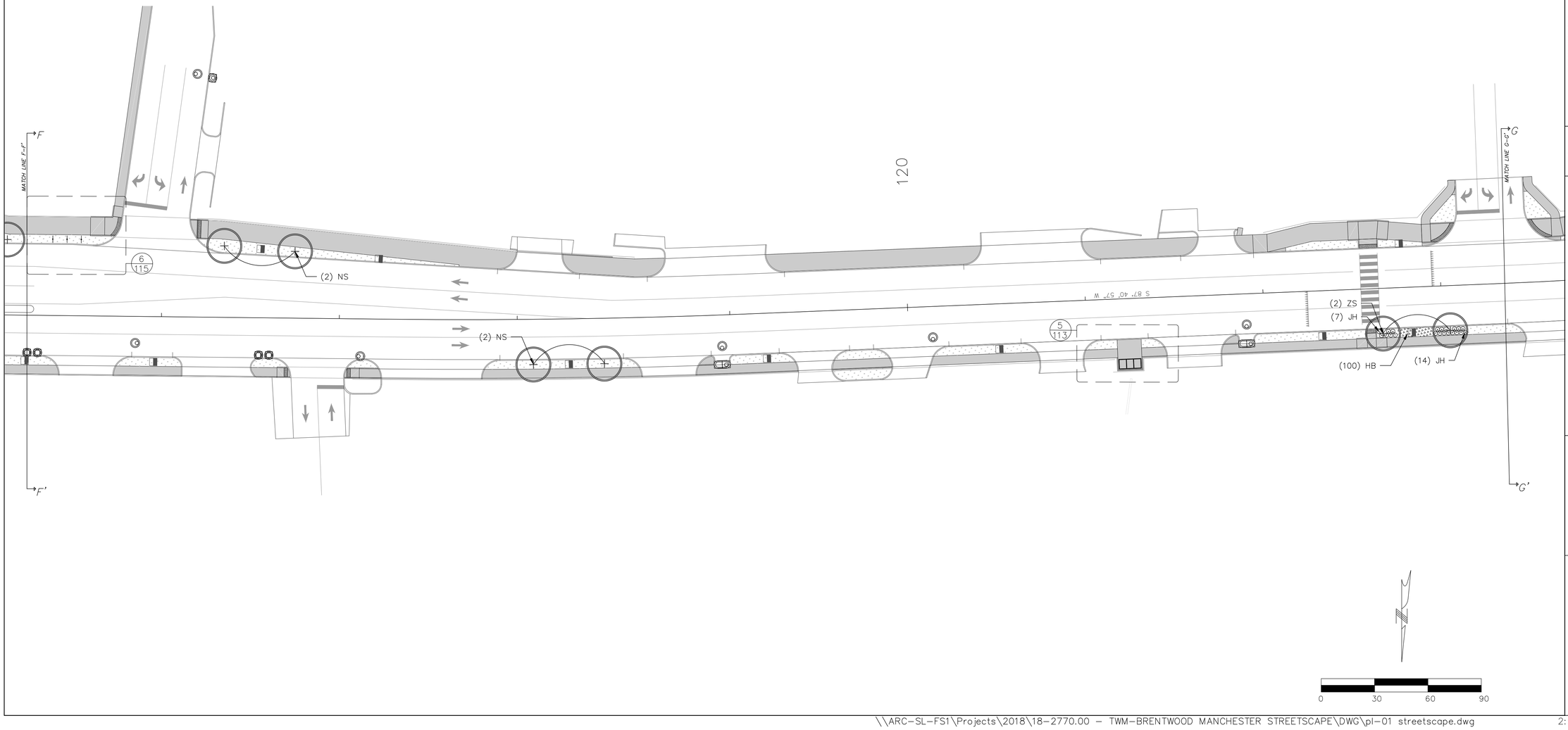
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LANDSCAPE SHEETS

MANCHESTER ROAD
CORRIDOR ENHANCEMENTS

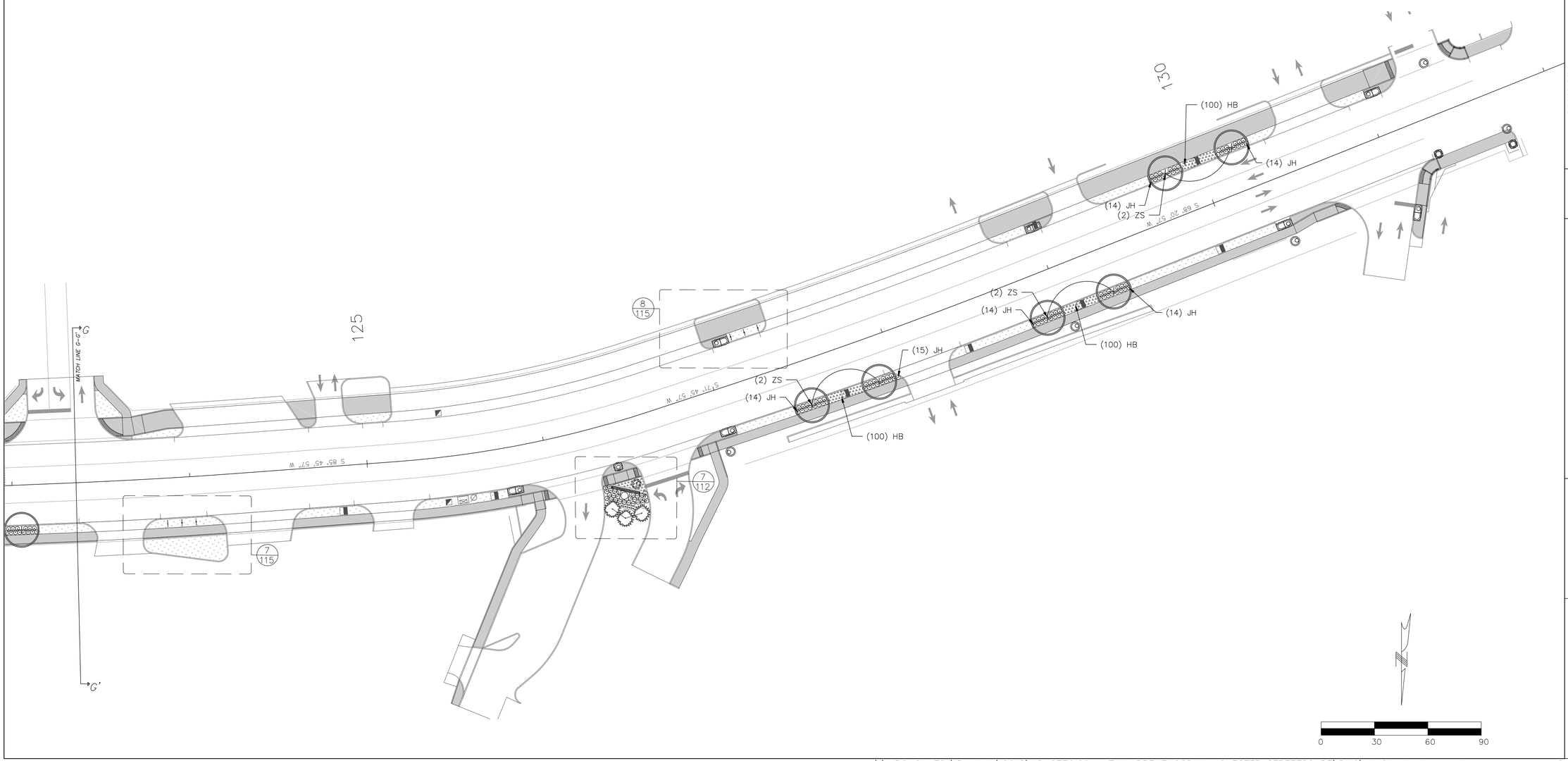
SHEET 7 OF 16

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SL	107

COUNTY: ST. LOUIS

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CD REVIEW SET	02/05/20

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

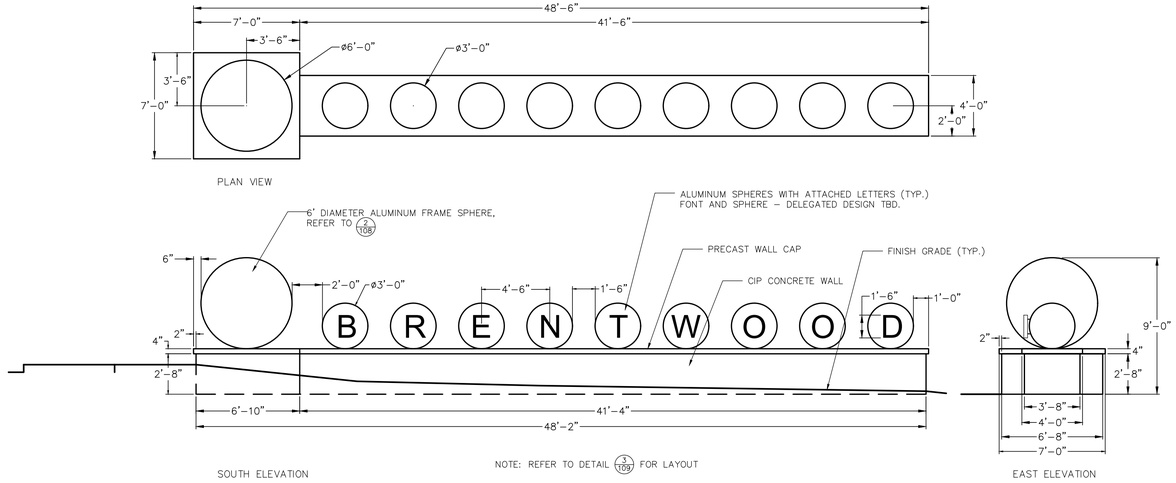
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LANDSCAPE SHEETS

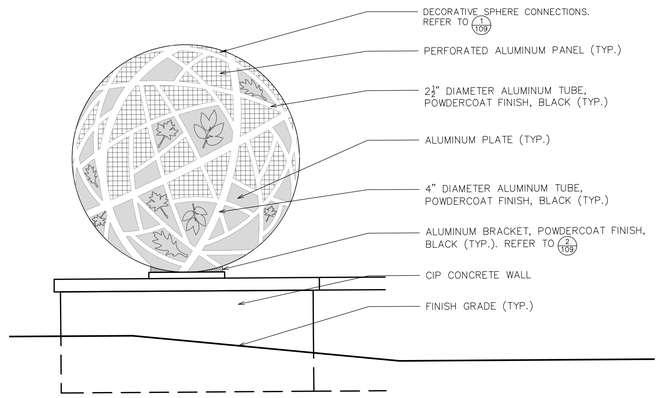
MANCHESTER ROAD
CORRIDOR ENHANCEMENTS

SHEET 8 OF 16



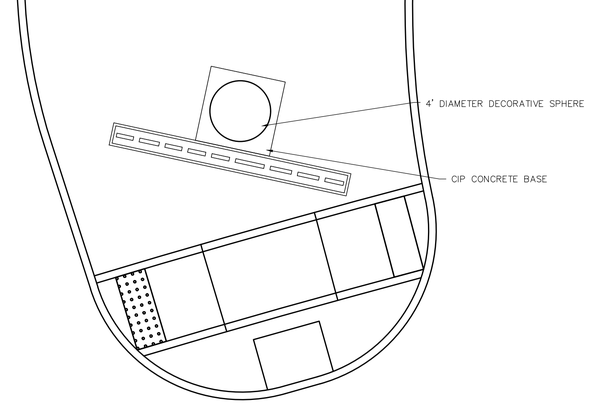
1/108 ELEVATION – HANLEY ROAD MONUMENT

0 2'–6" 5'–0" 10'–0"

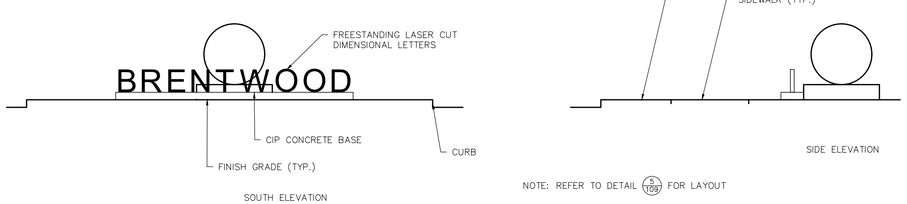


2/108 ELEVATION – HANLEY ROAD DECORATIVE SPHERE

0 2'–6" 5'–0" 10'–0"



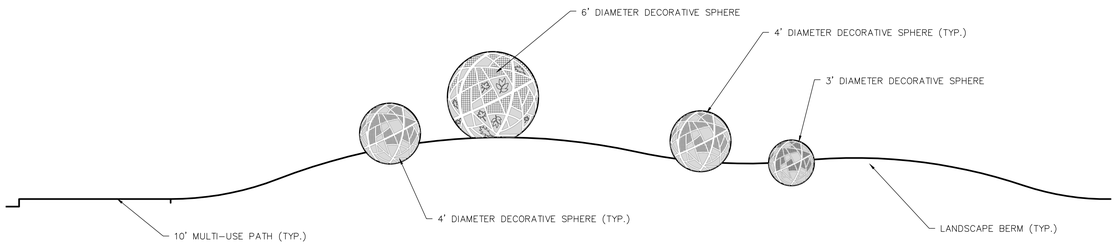
PLAN VIEW



NOTE: REFER TO DETAIL 5/109 FOR LAYOUT

3/108 ELEVATION – HIGH SCHOOL DRIVE MONUMENT

0 2'–6" 5'–0" 10'–0"



NOTE: REFER TO DETAIL 4/109 FOR LAYOUT

4/108 ELEVATION – HANLEY ROAD SOUTH MONUMENT

0 2'–6" 5'–0" 10'–0"

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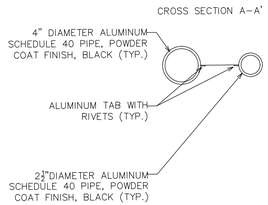
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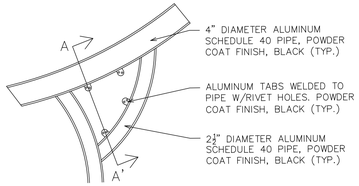
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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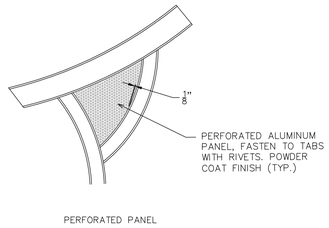
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LANDSCAPE SHEETS
MANCHESTER ROAD CORRIDOR ENHANCEMENTS
SHEET 9 OF 16

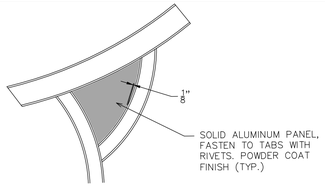
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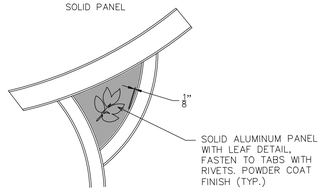




PERFORATED PANEL



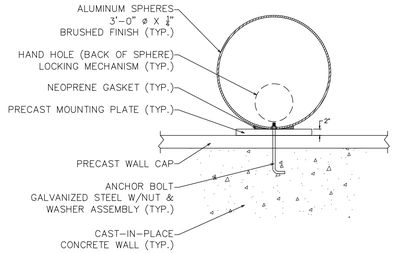
SOLID PANEL

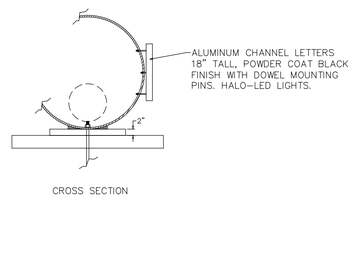


SOLID PANEL WITH LEAF

1/109 DETAIL – DECORATIVE SPHERE CONNECTIONS

0 4" 8" 1'–4"

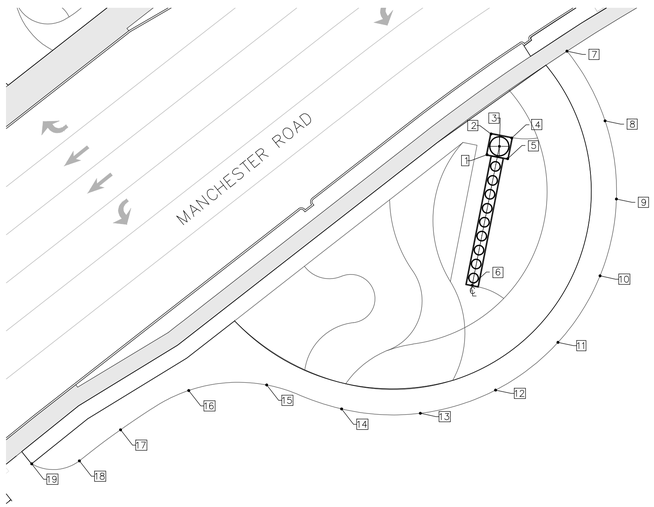




CROSS SECTION

2/109 DETAIL – WALL SPHERE BASE CONNECTION

0 2' 4' 8'

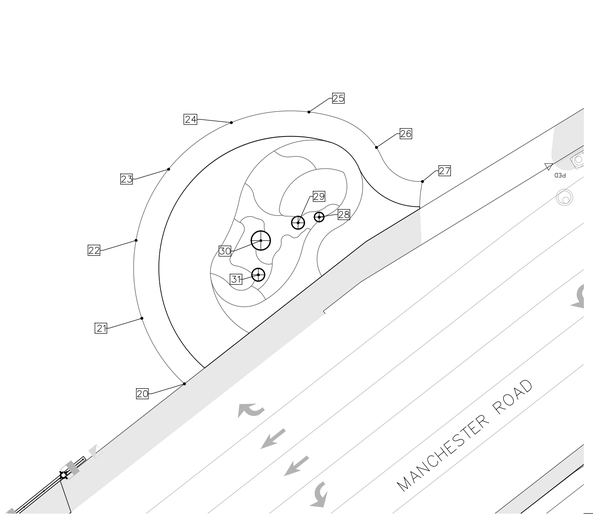


3/109 DETAILED PLAN VIEW – HANLEY ROAD GATEWAY (NORTH)

0 10' 20' 40'

COORDINATE SCHEDULE

POINT #	POINT TYPE	STATION (APPROX.)	OFFSET	NORTHING	EASTING	DESCRIPTION
1	CP	34+66.65	54.98' RT	1011828.33	867439.35	Corner Point – TOW East
2	CP	34+72.14	50.56' RT	1011821.78	867438.06	Corner Point – TOW South
3	RP	34+71.87	55.27' RT	1011825.70	867435.43	Center of Sphere
4	CP	34+74.35	57.73' RT	1011823.07	867431.52	Corner Point – TOW West
5	CP	34+71.60	59.97' RT	1011829.61	867432.80	Corner Point – TOW North
6	CL	34+35.66	84.44' RT	1011869.70	867444.05	Center Line of Wall
7	PC	35+09.94	42.84' RT	1011795.55	867414.02	Begin– Landscape Edging Curve
8	CC	35+07.74	67.90' RT	1011817.63	867401.95	Landscape Edging Curve
9	CC	34+95.17	90.47' RT	1011842.39	867398.36	Landscape Edging Curve
10	CC	34+72.97	107.20' RT	1011866.71	867403.55	Landscape Edging Curve
11	CC	34+45.50	115.56' RT	1011887.77	867416.88	Landscape Edging Curve
12	CC	34+03.47	64.19' RT	1011902.88	867436.64	Landscape Edging Curve
13	CC	33+97.46	105.71' RT	1011910.23	867460.47	Landscape Edging Curve
14	CC	33+78.91	89.00' RT	1011908.84	867485.40	Landscape Edging Curve
15	CC	33+65.17	68.21' RT	1011901.27	867509.14	Landscape Edging Curve
16	CC	33+44.84	54.09' RT	1011903.02	867533.83	Landscape Edging Curve
17	CC	33+20.22	50.25' RT	1011915.47	867555.42	Landscape Edging Curve
18	CC	33+03.90	49.73' RT	1011925.29	867568.46	Landscape Edging Curve
19	PT	32+91.54	40.99' RT	1011926.24	867583.57	End– Landscape Edging Curve



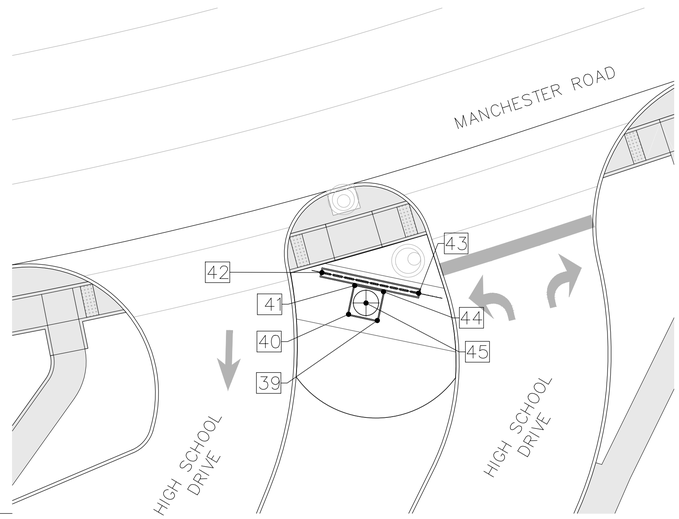
4/109 DETAILED PLAN VIEW – HANLEY ROAD GATEWAY (SOUTH)

0 10' 20' 40'

COORDINATE SCHEDULE

POINT #	POINT TYPE	STATION (APPROX.)	OFFSET	NORTHING	EASTING	DESCRIPTION
20	PC	33+52.80	57.18' LT	1011811.35	867597.41	Begin– Landscape Edging Curve
21	CC	33+55.31	81.81' LT	1011790.60	867610.90	Landscape Edging Curve
22	CC	33+69.36	102.17' LT	1011765.92	867612.73	Landscape Edging Curve
23	CC	33+91.52	113.26' LT	1011743.39	867602.43	Landscape Edging Curve
24	CC	34+16.25	112.30' LT	1011728.63	867582.56	Landscape Edging Curve
25	CC	34+37.48	99.51' LT	1011725.27	867558.00	Landscape Edging Curve
26	CC	34+47.11	77.36' LT	1011736.50	867536.61	Landscape Edging Curve
27	PT	34+51.71	59.81' LT	1011747.28	867522.02	End – Landscape Edging Curve
28	RP	34+19.16	71.53' LT	1011758.56	867554.72	Center of Sphere
29	RP	34+12.84	74.32' LT	1011760.35	867561.40	Center of Sphere
30	RP	34+00.10	77.34' LT	1011765.98	867573.21	Center of Sphere
31	RP	33+92.68	69.38' LT	1011776.84	867574.00	Center of Sphere

MODIFIED STATE PLANE (GROUND) COORDINATES



5/109 DETAILED PLAN VIEW – HIGH SCHOOL DRIVE GATEWAY

0 5' 10' 20'

COORDINATE SCHEDULE

POINT #	POINT TYPE	STATION (APPROX.)	OFFSET	NORTHING	EASTING	DESCRIPTION
39	CP	126+37.77	43.80' RT	1011922.88	861722.79	Corner Point – TOW North
40	CP	126+33.92	41.62' RT	1011921.90	861727.36	Corner Point – TOW East
41	CP	126+35.95	37.49' RT	1011917.14	861726.51	Corner Point – TOW South
42	CL	126+31.75	34.13' RT	1011915.29	861731.57	Center Line of Wall
43	CL	126+44.76	41.48' RT	1011918.57	861716.25	Center Line of Wall
44	CP	126+39.82	39.68' RT	1011918.19	861721.62	Corner Point – TOW West
45	RP	126+36.87	40.64' RT	1011920.11	861724.59	Radius of Sphere

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ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 109

COUNTY
ST. LOUIS

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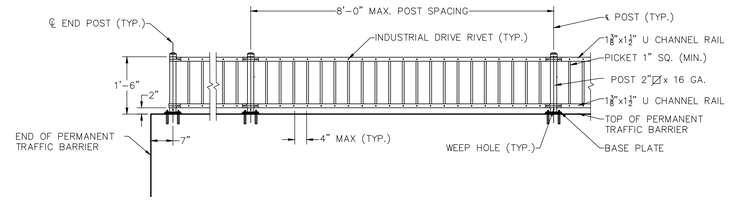
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LANDSCAPE SHEETS
MANCHESTER ROAD
CORRIDOR ENHANCEMENTS

SHEET 10 OF 16

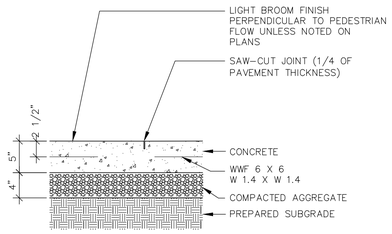
GENERAL NOTES:

1. ALL RAIL POSTS SHALL BE VERTICAL. GROUT OF $\frac{1}{2}$ INCH MINIMUM THICKNESS SHALL BE PLACED UNDER THE BASE PLATES TO PROVIDE FOR VERTICAL ALIGNMENT OF RAIL POSTS.
2. LOCATION AND DIMENSIONS OF THE 18 INCH AASHTO COMPLIANT FENCE ARE SHOWN ON THE SITE PLAN. DIMENSIONAL CHANGES WILL BE ALLOWED ONLY UNDER WRITTEN AUTHORIZATION OF THE ENGINEER.
3. RAILING, POST AND BASE PLATE DETAILS ARE SHOWN SCHEMATICALLY AND ARE BASED ON THE INFORMATION PROVIDED ON THE SITE PLAN. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS AND CALCULATIONS BASED ON A DESIGN IN ACCORDANCE WITH 2012 AASHTO LRFD 6TH EDITION AND THE 2013 INTERIMS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI.
4. THE CONTRACTOR SHALL FIELD VERIFY THE ACTUAL HORIZONTAL AND VERTICAL ALIGNMENT OF THE FENCE PRIOR TO BEGINNING FABRICATION OF THE FENCE.
5. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B, STRUCTURAL STEEL TUBING.
6. VENT HOLES FOR GALVANIZING SHALL BE PLACED IN THE POSTS AND RAILS AT LOCATIONS THAT WILL NOT ALLOW THE ACCUMULATION OF MOISTURE IN THE MEMBERS.
7. THE FENCE DETAILS MUST PROVIDE FOR THERMAL EXPANSION OF THE OVERALL FENCE LENGTH.



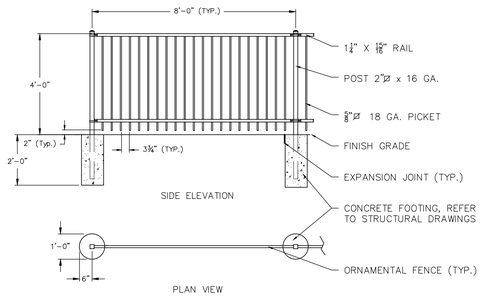
1/110 ELEVATION – ROUTE 100 BRIDGE A8717 RAILING

0 1'-3" 2'6" 5'-0"



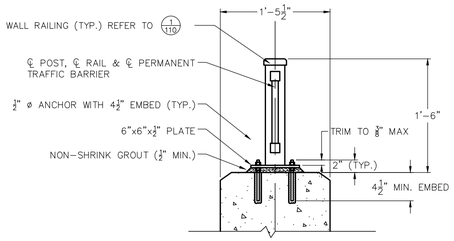
2/110 DETAIL – CONCRETE PAVEMENT

0 1'-3" 2'6" 5'-0"



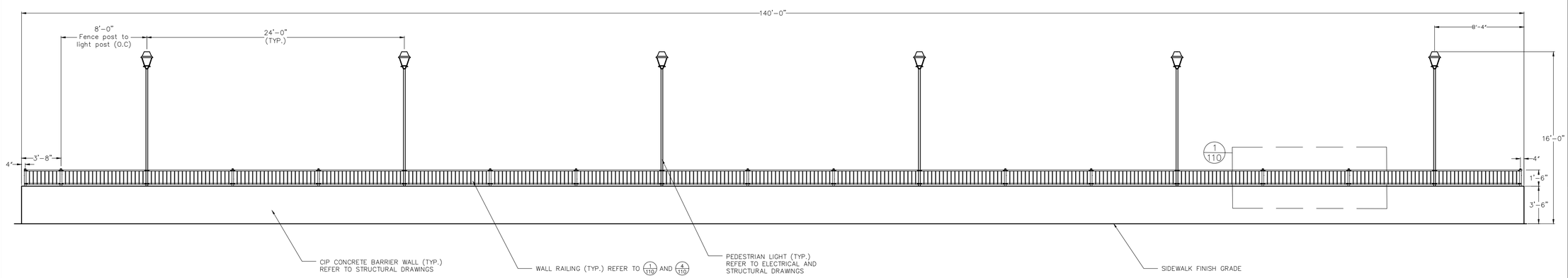
3/110 DETAIL – 48" HIGH ORNAMENTAL FENCE

0 2' 4' 8'



4/110 DETAIL – TYPICAL RAILING POST CONNECTION

0 7.5" 1'-3" 2'-6"



5/110 ELEVATION – ROUTE 100 BRIDGE A8717 BARRIER WALL (INTERIOR (ROADWAY SIDE) ELEVATION – NORTH AND SOUTH)

0 2'-6" 5'-0" 10'-0"

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DATE

DATE PREPARED 02/05/20

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 110

COUNTY ST. LOUIS

JOB NO. J6S1718B

CONTRACT ID. -.-

PROJECT NO. -.-

BRIDGE NO. -.-

DATE	DESCRIPTION
02/05/20	CD REVIEW SET

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ARCTURIS
design collaborative
720 Olive Street
Suite 200
Saint Louis, MO 63101
(314) 206-7100

LANDSCAPE SHEETS
MANCHESTER ROAD CORRIDOR ENHANCEMENTS
SHEET 11 OF 16

SODDING

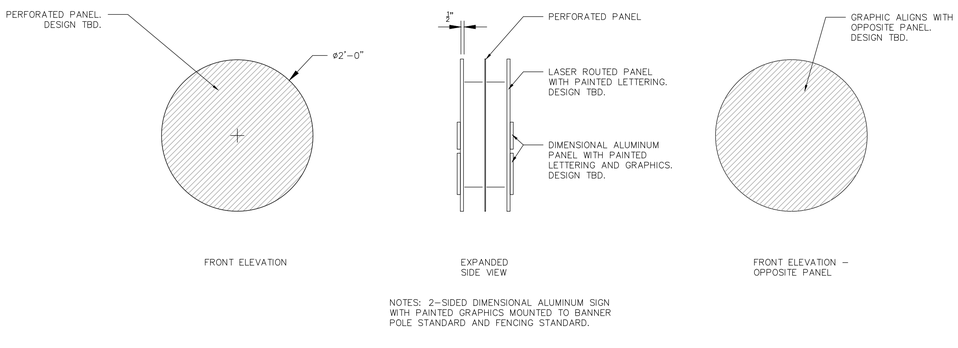
SHEET	STATION	STATION	ROUTE	LOCATION	SODDING (SY)	PLANT SOIL MIX (CY)	REMARKS
100	33+00.00	40.00+00	MAIN	LT/RT	745	314	
101	40+00.00	48.00+00	MAIN	LT/RT	534	8	
102	48+00.00	57.00+00	MAIN	LT/RT	613	6	
103	57+00.00	65.00+00	MAIN	LT/RT	436	22	
104	65+00.00	73.00+00	MAIN	LT/RT	538	17	
105	73+00.00	81.00+00	MAIN	LT/RT	404	13	
106	81+00.00	123.00+00	MAIN	LT/RT	378	7	
107	123+00.00	131.00+00	MAIN	LT/RT	312	42	
				TOTAL	3960	429	

STREETSCAPE ITEMS

SHEET	STATION	STATION	ROUTE	LOCATION	BANNER POLE (EACH)	BENCH (EACH)	RECEPTACLE (EACH)	GINKGO BILOBA (EACH)	NYSSA SYLVATICA (EACH)	ZELKOVA SERRATA (EACH)	AMELANCHIER GRANDIFLORA (EACH)	JUNIPERUS CHINENSIS (EACH)	COTONEASTER ADPRESSUS (EACH)	CORNUS SERICEA (EACH)	JUNIPERUS HORIZONTALIS (EACH)	RHUS AROMATICA (EACH)	PEROVSKIA ATRIPLICIFOLIA (EACH)	REMARKS
100	33+00.00	40.00+00	MAIN	LT/RT	6					8	7	11	71	92	341	25	499	
101	40+00.00	48.00+00	MAIN	LT/RT				14							28			
102	48+00.00	57.00+00	MAIN	LT/RT				8							11			
103	57+00.00	65.00+00	MAIN	LT/RT	3			4		4					71			
104	65+00.00	73.00+00	MAIN	LT/RT	3				10						56			
105	73+00.00	81.00+00	MAIN	LT/RT	3	2	1		4						36			
106	81+00.00	123.00+00	MAIN	LT/RT	3				4	2					21			
107	123+00.00	131.00+00	MAIN	LT/RT	6					6		3		4	112			
				TOTAL	24	2	1	26	18	20	7	14	71	96	676	25	499	

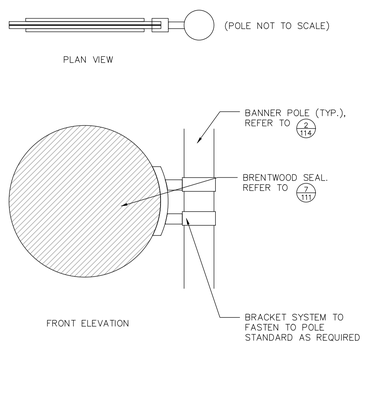
STREETSCAPE ITEMS – CONTINUED

SHEET	STATION	STATION	ROUTE	LOCATION	HEMEROCALLIS (EACH)	LIRIOPE SPICATA (EACH)	ECHINACEA PURPUREA(EACH)	SYMPHYOTRICHUM NOVAE–ANGLIAE (EACH)	REMARKS
100	33+00.00	40.00+00	MAIN	LT/RT	1798	1497	760	460	
101	40+00.00	48.00+00	MAIN	LT/RT	100				
102	48+00.00	57.00+00	MAIN	LT/RT	135				
103	57+00.00	65.00+00	MAIN	LT/RT	286				
104	65+00.00	73.00+00	MAIN	LT/RT	200				
105	73+00.00	81.00+00	MAIN	LT/RT	272				
106	81+00.00	123.00+00	MAIN	LT/RT	100				
107	123+00.00	131.00+00	MAIN	LT/RT	374				
				TOTAL	3265	1497	760	460	



7 / 111 ELEVATION – BRENTWOOD SEAL

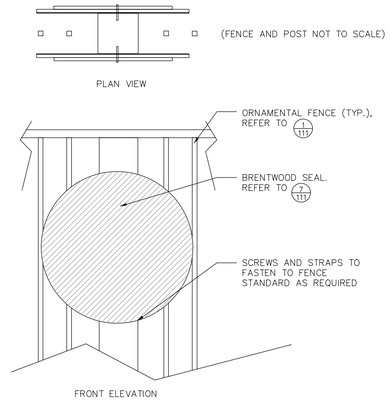
0 6" 1'–0" 2'–0"



8 / 111 ELEVATION – BRENTWOOD SEAL POLE MOUNT

0 6" 1'–0" 2'–0"

Does a Brentwood seal go on each fence? How often? Quantity of seals?



9 / 111 ELEVATION – BRENTWOOD SEAL FENCE MOUNT

0 6" 1'–0" 2'–0"

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ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 111

COUNTY ST. LOUIS

JOB NO. J6S1718B

CONTRACT ID. _:_

PROJECT NO. _:_

BRIDGE NO. _:_

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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1–888–ASK–MODOT (1–888–275–6636)

ARCTURIS design collaborative
720 Olive Street
Suite 200
Saint Louis, MO 63101
(314) 206–7100

LANDSCAPE SHEETS

MANCHESTER ROAD CORRIDOR ENHANCEMENTS

SHEET 12 OF 16

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PLANTING SCHEDULE

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	METHOD	SPACING
TREES						
GB	26	Ginkgo biloba	Ginkgo	3" Cal.	BB	As Shown
NS	18	Nyssa sylvatica	Black Gum Tree	3" Cal.	BB	As Shown
ZS	20	Zelkova serrata	Japanese Zelkova	3" Cal.	BB	As Shown
AG	7	Amelanchier grandiflora	Autumn Brilliance Serviceberry	3" Cal.	BB	As Shown
JC	14	Juniperus chinensis 'Spartan'	Spartan Juniper	6' HT.	BB	As Shown
SHRUBS						
CA	71	Cotoneaster adpressus 'Tom Thumb'	Tom Thumb Creeping Cotoneaster	3 Gal.	Cont.	As Shown
CS	96	Cornus sericea	Redtwig Dogwood	3 Gal.	Cont.	As Shown
JH	676	Juniperus horizontalis 'Plumosa'	Andorra Creeping Juniper	3 Gal.	Cont.	As Shown
RA	25	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	3 Gal.	Cont.	As Shown
PA	499	Perovskia atriplicifolia 'Little Spire'	Russian Sage	1 Gal.	Cont.	As Shown
PERENNIALS & GROUNDCOVERS						
HB	3265	Hemerocallis 'Baltimore Oriole'	Baltimore Oriole Daylily	2 Gal.	Cont.	As Shown
LS	1497	Liriope spicata	Creeping Liriope	1 Gal.	Cont.	As Shown
EP	760	Echinacea purpurea	White Coneflower	1 Gal.	Cont.	As Shown
SA	460	Symphyotrichum novae-angliae	New England Aster	1 Gal.	Cont.	As Shown

LEGEND

CANOPY TREE

EVERGREEN TREE

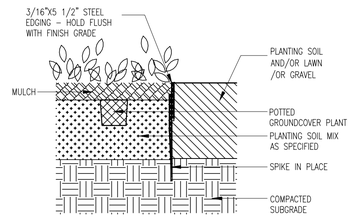
SHRUB

PERENNIAL BED

TURF AREA

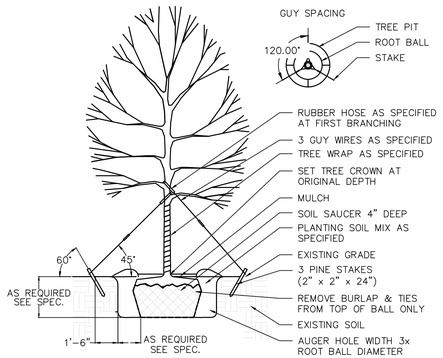
PEDESTRIAN LIGHT

BANNER POST



1/112 DETAIL – EDGING

0 1'–3" 2'–6" 5'–0"

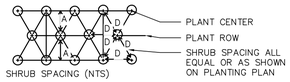


2/112 DETAIL – DECIDUOUS TREE PLANTING

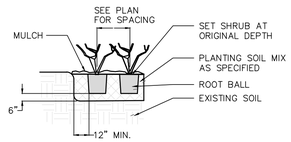
0 2'–6" 5'–0" 10'–0"

SPACING "D"	ROW "A"	NUMBER OF PLANTS PER SQ
24"	20.8"	.290
30"	26"	.185
36"	30"	.120
4'	41.5"	.073
5'	52"	.046

QUANTITY OF SHRUBS AND SPACING AS NOTED IN PLANTING SCHEDULE



SHRUB SPACING (NTS)

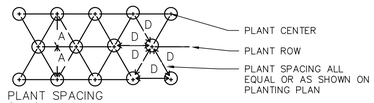


3/112 DETAIL – SHRUB PLANTING

0 2'–6" 5'–0" 10'–0"

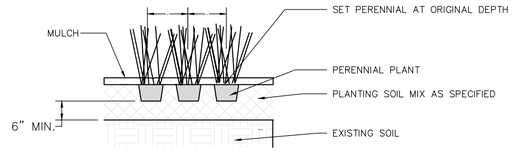
SPACING "D"	ROW "A"
18" O.C.	15.6"
12" O.C.	10.4"
10" O.C.	8.7"
8" O.C.	6.9"

QUANTITY OF PERENNIALS AND SPACING AS NOTED IN PLANTING SCHEDULE



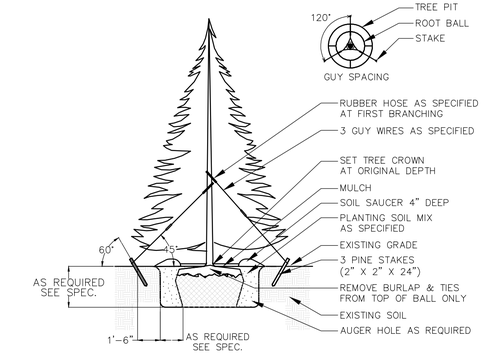
PLANT SPACING (NTS)

SEE PLANT SCHEDULE FOR SPACING



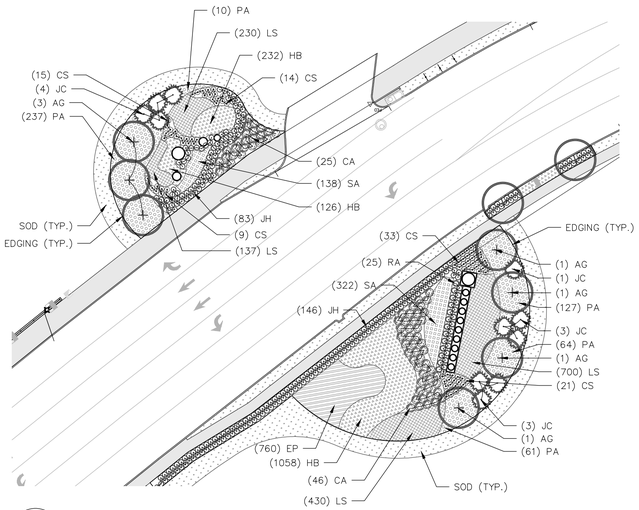
4/112 DETAIL – PERENNIAL PLANTING

0 1'–3" 2'–6" 5'–0"



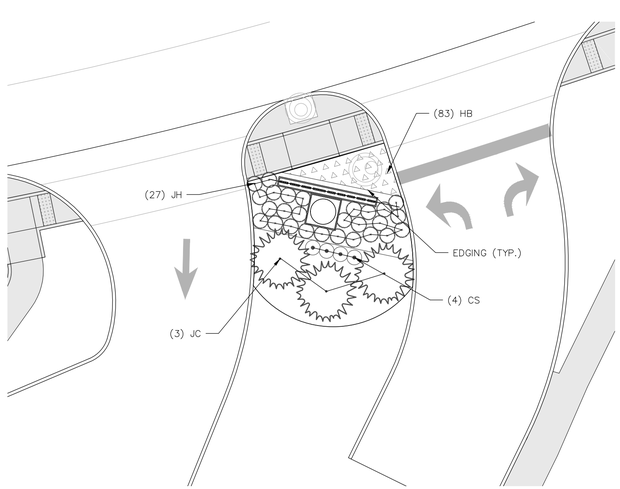
5/112 DETAIL – EVERGREEN TREE PLANTING

0 5' 10' 20'



6/112 DETAILED PLANTING PLAN – HANLEY ROAD GATEWAY

0 10' 20' 40'



7/112 DETAILED PLANTING PLAN – HIGH SCHOOL DRIVE GATEWAY

0 5' 10' 20'

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DATE

DATE PREPARED 02/05/20

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 112

COUNTY ST. LOUIS

JOB NO. J6S1718B

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PROJECT NO. -_-

BRIDGE NO. -_-

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

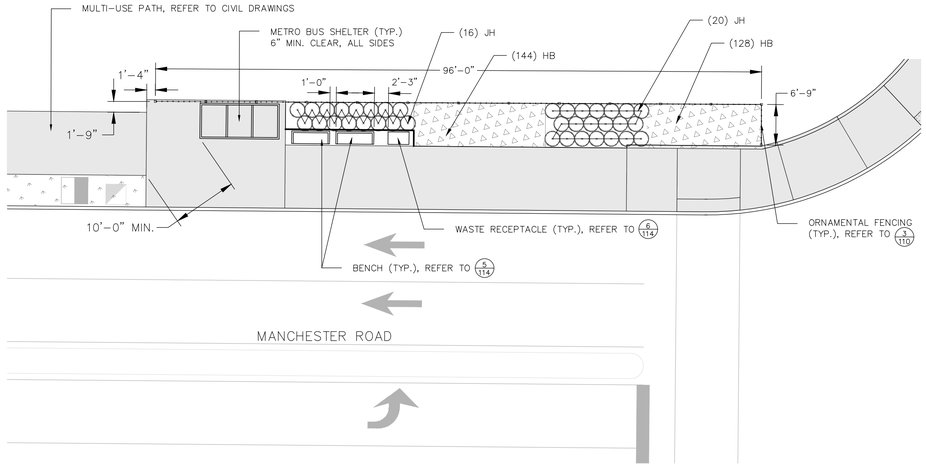
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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720 Olive Street
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Saint Louis, MO 63101
(314) 206-7100

LANDSCAPE SHEETS

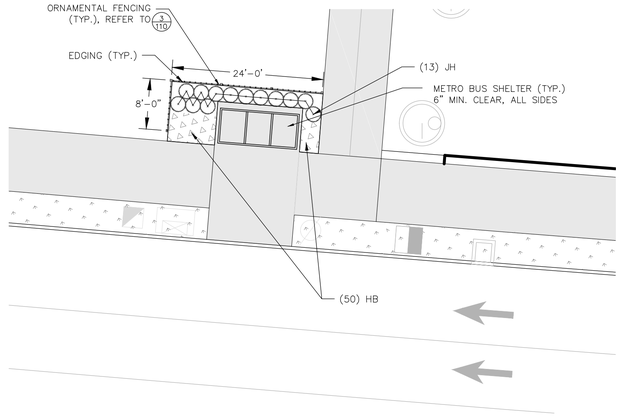
MANCHESTER ROAD CORRIDOR ENHANCEMENTS

SHEET 13 OF 16



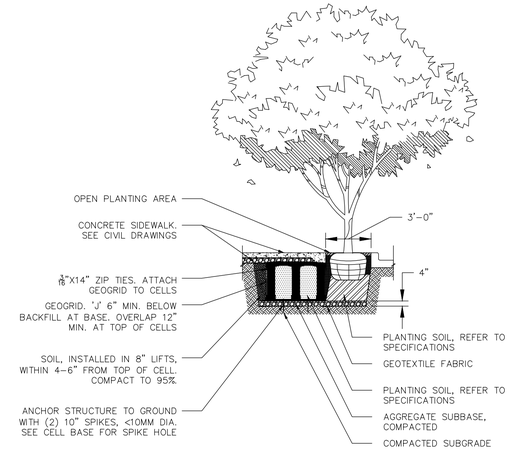
1/113 DETAILED PLAN VIEW – BUS STOP @ STA. 76+00 (APPROX.)

0 5' 10' 20'



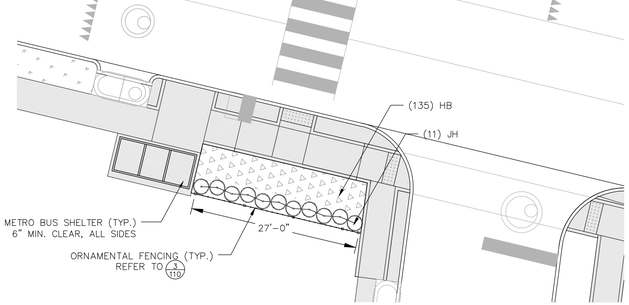
2/113 DETAILED PLAN VIEW – BUS STOP @ STA. 65+00 (APPROX.)

0 5' 10' 20'



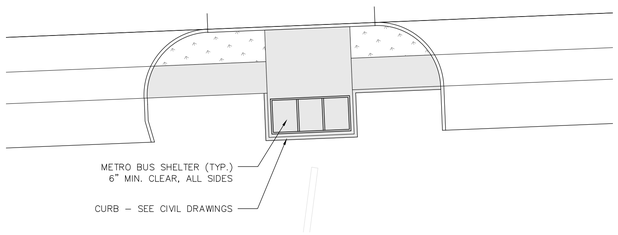
3/113 DETAILED – SILVA CELL SECTION

0 2'-6" 5'-0" 10'-0"



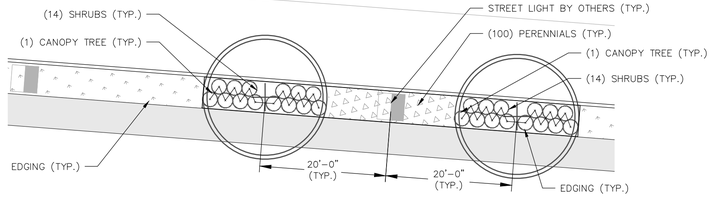
4/113 DETAILED PLAN VIEW – BUS STOP @ STA. 55+00 (APPROX.)

0 5' 10' 20'



5/113 DETAILED PLAN VIEW – BUS STOP @ STA. 121+00 (APPROX.)

0 5' 10' 20'



NOTE: STREETSCAPE PLAN SHOWN FOR REFERENCE. REFER TO PLAN SHEETS AND PLANTING SCHEDULE FOR QUANTITIES.

6/113 DETAILED PLAN VIEW – STREETSCAPE PLANTING (TYP.)

0 5' 10' 20'

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DATE

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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 113

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

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-_-

PROJECT NO.
-_-

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DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

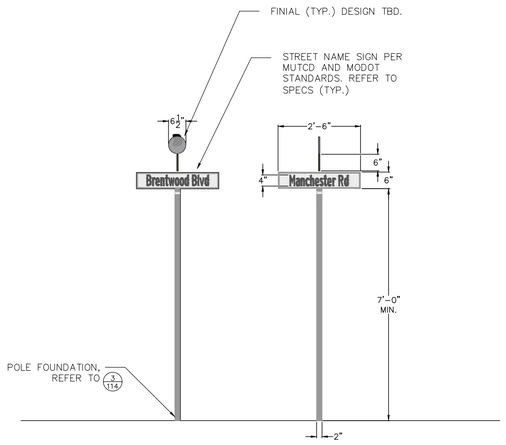
105 WEST CAPITOL
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LANDSCAPE SHEETS
MANCHESTER ROAD
CORRIDOR ENHANCEMENTS
SHEET 14 OF 16

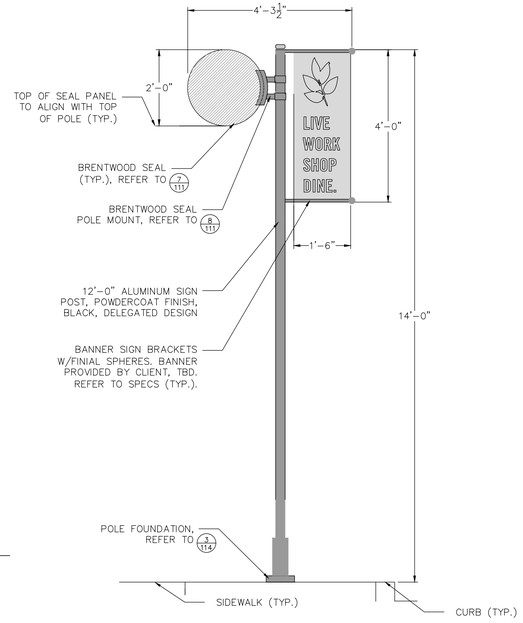
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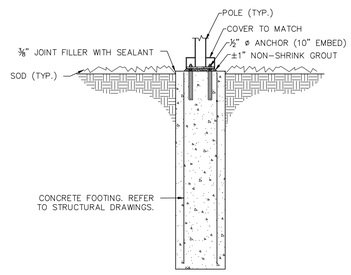
1/114 ELEVATION – STREET SIGNS

0 1'-3" 2'6" 5'-0"



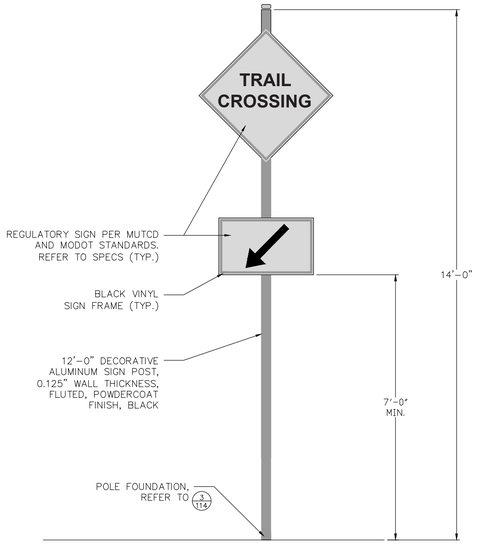
2/114 ELEVATION – BANNER POLE

0 1'-3" 2'6" 5'-0"



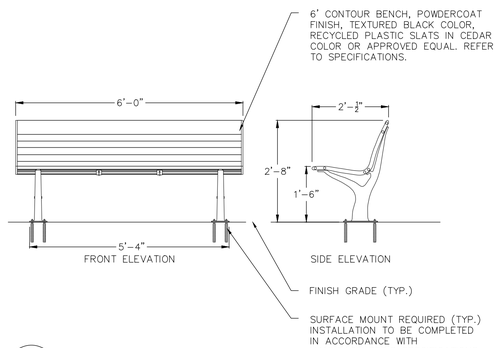
3/114 ELEVATION – TYPICAL POLE FOUNDATION

0 1'-3" 2'6" 5'-0"



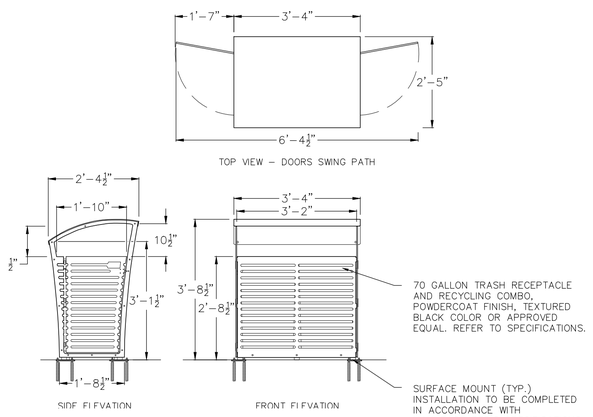
4/114 ELEVATION – DECORATIVE REGULATORY SIGN FRAMES AND POSTS

0 1'-3" 2'6" 5'-0"



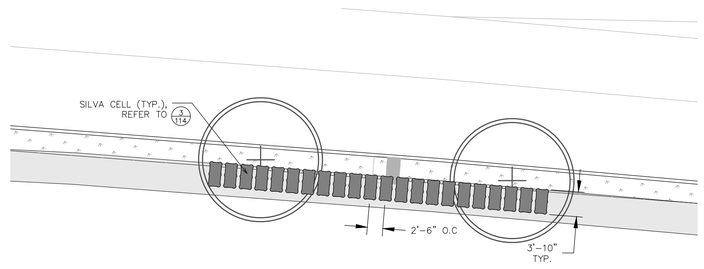
5/114 DETAIL – BENCH

0 1'-3" 2'6" 5'-0"



6/114 DETAIL – RECEPTACLE

0 1'-3" 2'6" 5'-0"



7/114 DETAILED PLAN VIEW – SILVA CELL TEST LOCATION

0 5' 10' 20'

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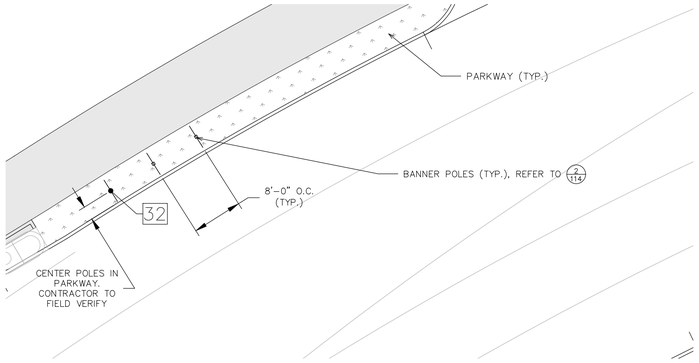
ARCTURIS design collaborative
720 Olive Street
Suite 200
Saint Louis, MO 63101
(314) 206-7100

LANDSCAPE SHEETS

MANCHESTER ROAD CORRIDOR ENHANCEMENTS

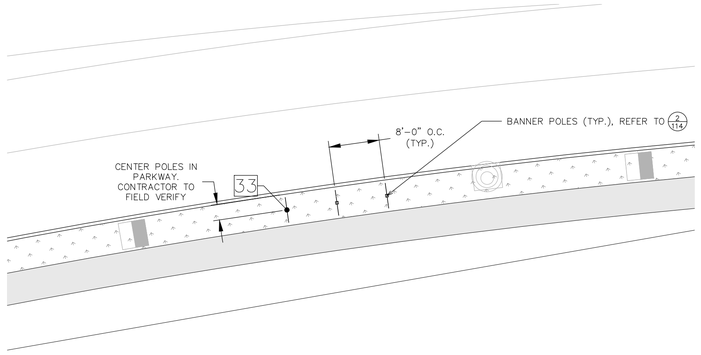
SHEET 15 OF 16

\\ARC-SL-FS1\Projects\2018\18-2770.00 – TWM-BRENTWOOD MANCHESTER STREETSCAPE\DWG\L-Sheets.dwg 4:33 PM 2/5/2020



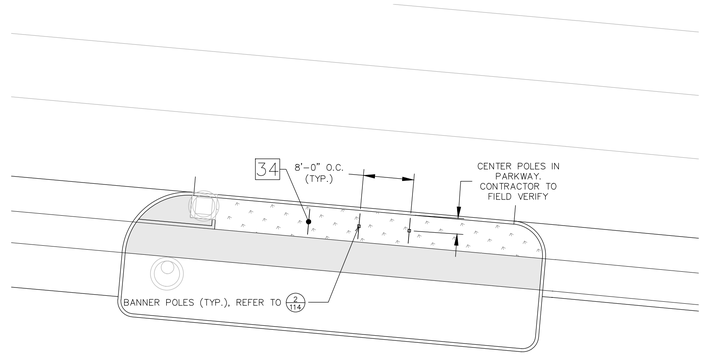
1/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 35+00 (APPROX.)

0 5' 10' 20'



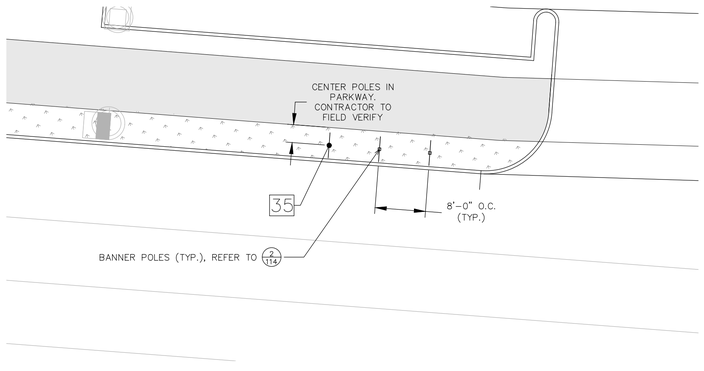
2/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 39+00 (APPROX.)

0 5' 10' 20'



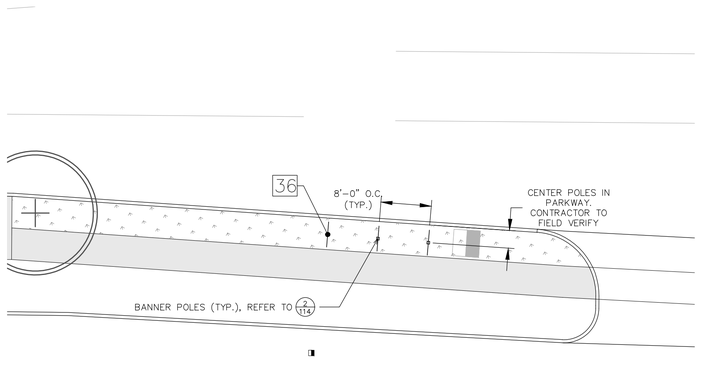
3/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 60+00 (APPROX.)

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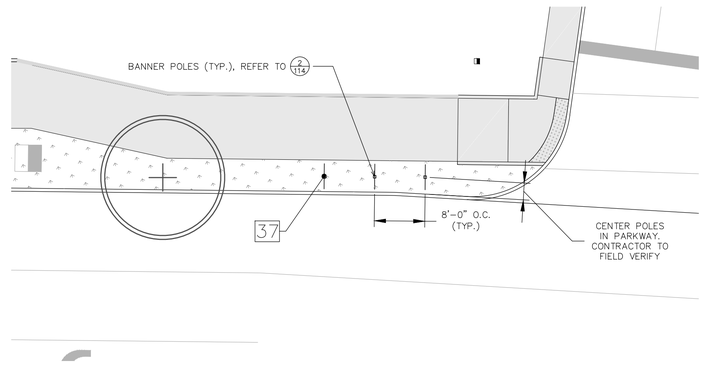
4/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 68+00 (APPROX.)

0 5' 10' 20'



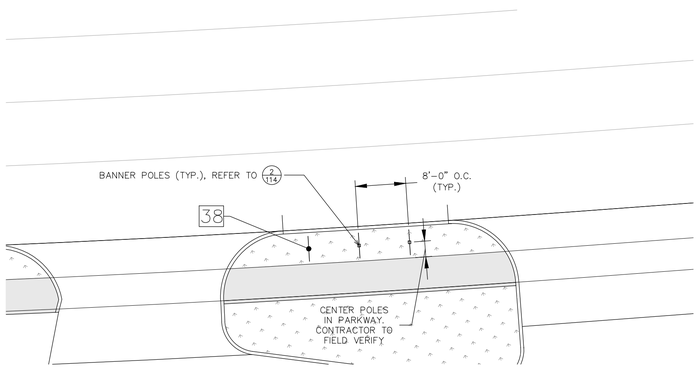
5/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 73+00 (APPROX.)

0 5' 10' 20'



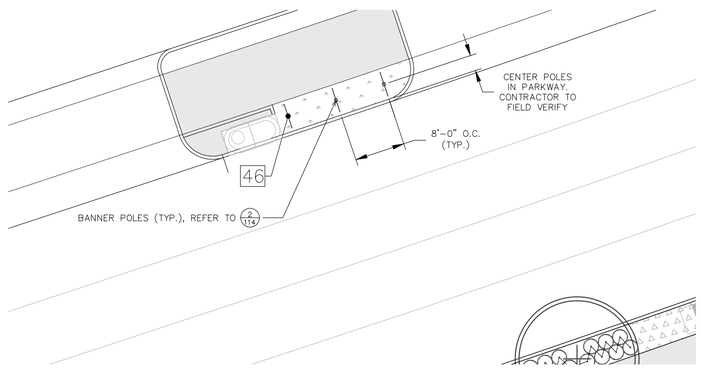
6/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 81+00 (APPROX.)

0 5' 10' 20'



7/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 124+00 (APPROX.)

0 5' 10' 20'



8/115 DETAILED PLAN VIEW – BANNER POLES @ STATION 127+00 (APPROX.)

0 5' 10' 20'

BANNER POLE COORDINATE SCHEDULE

POINT #	POINT TYPE	STATION (APPROX.)	OFFSET	NORTHING	EASTING	DESCRIPTION
32	BP	35+11.00	35.00' LT	1011729.66	867455.71	Center of banner pole
33	BP	38+78.52	27.63' RT	1011678.03	867084.48	Center of banner pole
34	BP	60+40.00	24.50' RT	1011848.35	864946.12	Center of banner pole
35	BP	68+43.78	26.20' LT	1011866.54	864142.17	Center of banner pole
36	BP	73+26.08	27.65' RT	1011951.42	863663.31	Center of banner pole
37	BP	81+39.60	44.00' LT	1011887.98	862849.10	Center of banner pole
38	BP	123+87.29	24.70' RT	1011935.78	861981.36	Center of banner pole
46	BP	127+19.75	26.00' LT	1011830.85	861664.97	Center of banner pole

MODIFIED STATE PLANE (GROUND) COORDINATES

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE

DATE PREPARED 02/05/20

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 115

COUNTY ST. LOUIS

JOB NO. J6S1718B

CONTRACT ID. -

PROJECT NO. -

BRIDGE NO. -

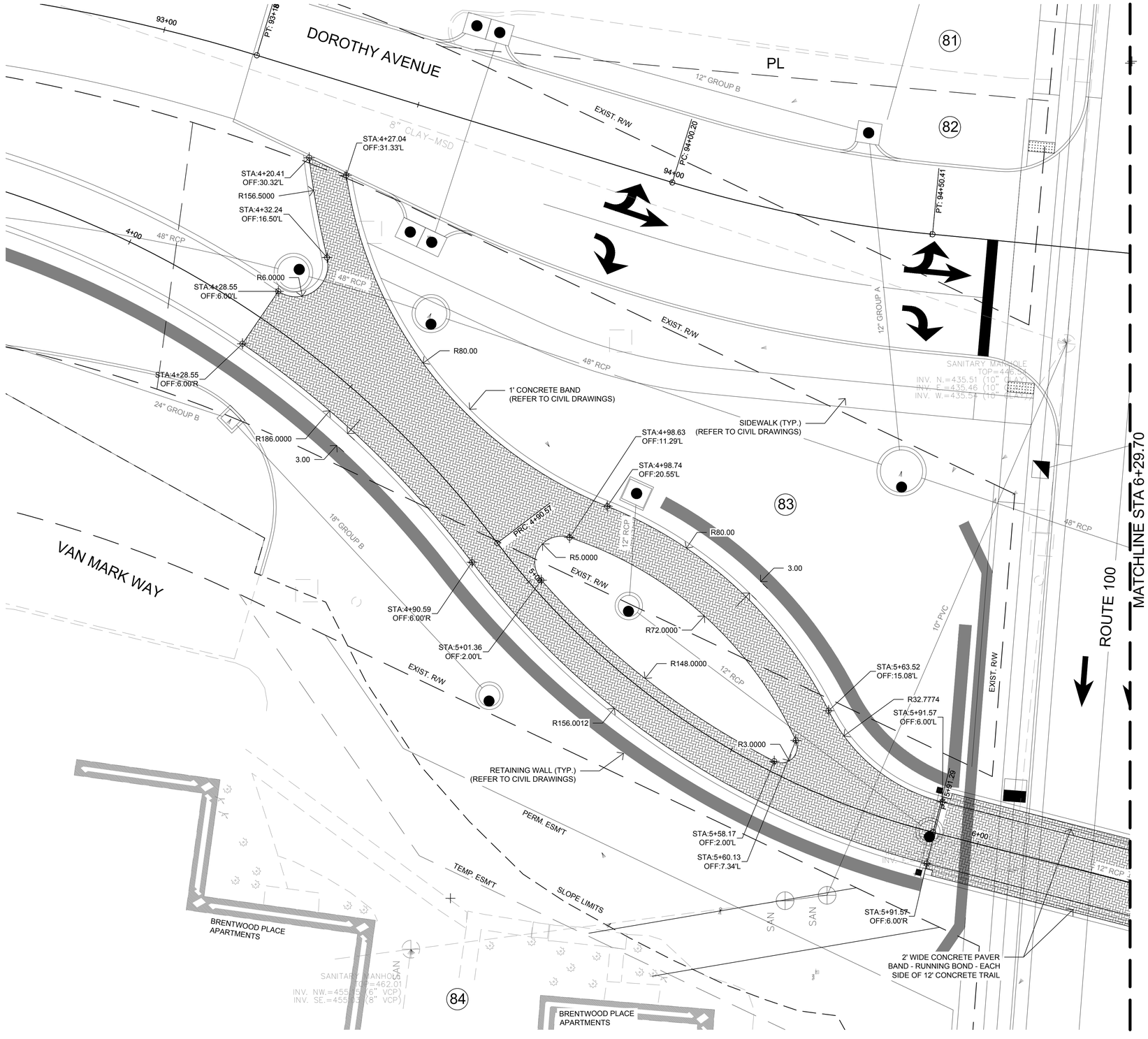
DATE	DESCRIPTION
02/05/20	CD REVIEW SET

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ARCTURIS design collaborative
720 Olive Street Suite 200 Saint Louis, MO 63101
(314) 206-7100

LANDSCAPE SHEETS
MANCHESTER ROAD CORRIDOR ENHANCEMENTS
SHEET 16 OF 16

\\ARC-SL-FS1\Projects\2018\18-2770.00 – TWM-BRENTWOOD MANCHESTER STREETSCAPE\DWG\L-Sheets.dwg 4:33 PM 2/5/2020

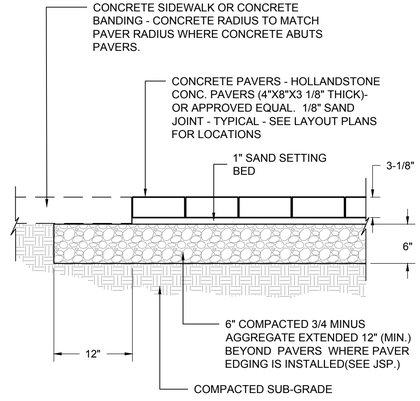


LEGEND

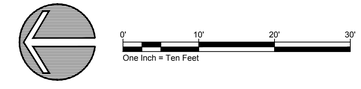
- CONCRETE PAVERS (HERRINGBONE)
- CONCRETE
- CONCRETE PAVERS (RUNNING BOND)

NOTES

1. VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND REPORT, IN WRITING, ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF WORK.
2. STATION AND OFFSETS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
3. RADIUS MEASUREMENTS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
4. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AS WELL AS APPLICABLE UTILITY PROVIDER REQUIREMENTS.
5. PROTECT ALL EXISTING VEGETATION SHOWN AS TO REMAIN PER THE CONTRACT DOCUMENTS.



CONCRETE PAVERS- TYPICAL



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/05/2020
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	1
COUNTY	ST. LOUIS
JOB NO.	J6S1718B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

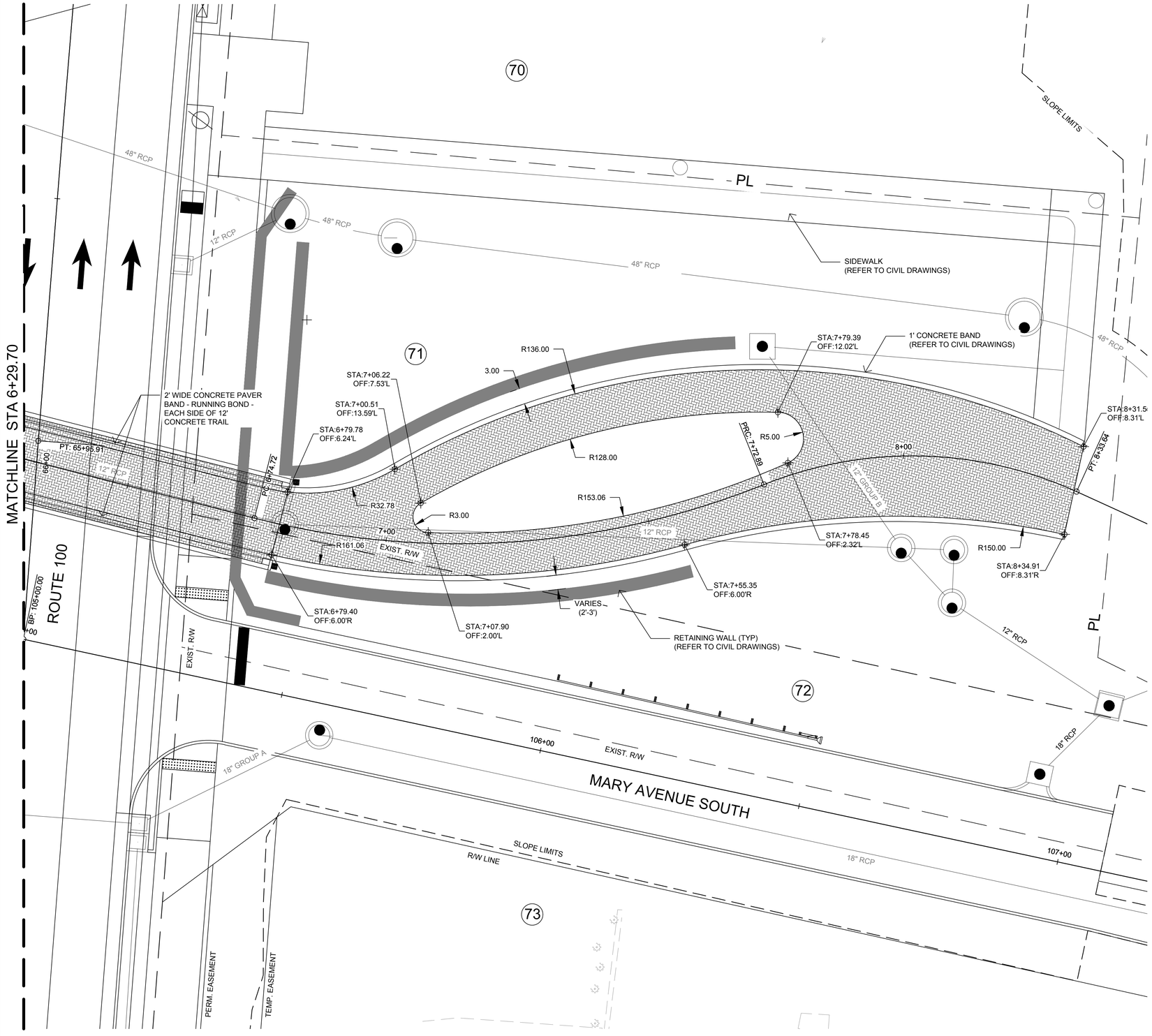
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PDS Planning Design Studio
727 North First Street Suite 360
Saint Louis, Missouri 63102
P 314.241.3600 F 314.241.3601

LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PAVEMENT PLAN
CONCRETE PAVERS

SHEET 1 OF 15

RFV



LEGEND

- CONCRETE PAVERS (HERRINGBONE)
- CONCRETE
- CONCRETE PAVERS (RUNNING BOND)

NOTES

1. VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND REPORT, IN WRITING, ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF WORK.
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5. PROTECT ALL EXISTING VEGETATION SHOWN AS TO REMAIN PER THE CONTRACT DOCUMENTS.

0' 10' 20' 30'
One Inch = Ten Feet

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 02/05/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY: ST. LOUIS
JOB NO.: J6S1718B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

DESCRIPTION	DATE

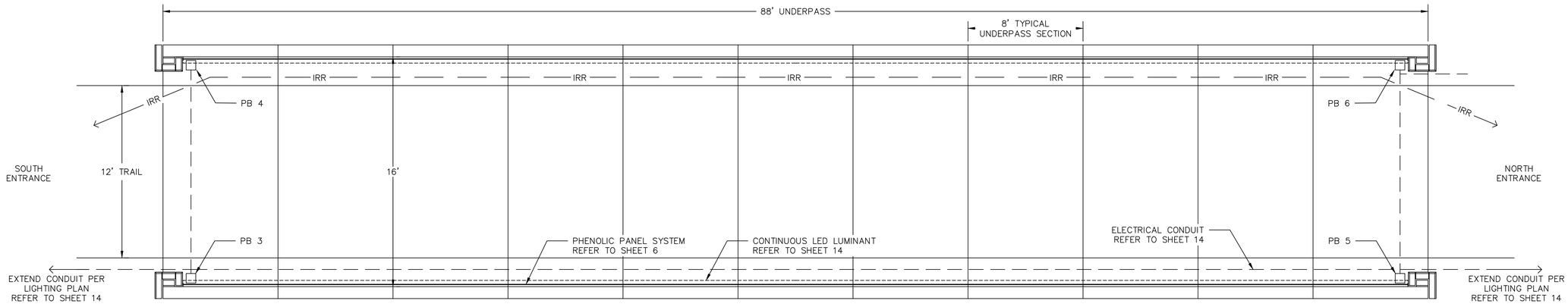
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PAVEMENT LAYOUT
PAVERS

SHEET 2 OF 15

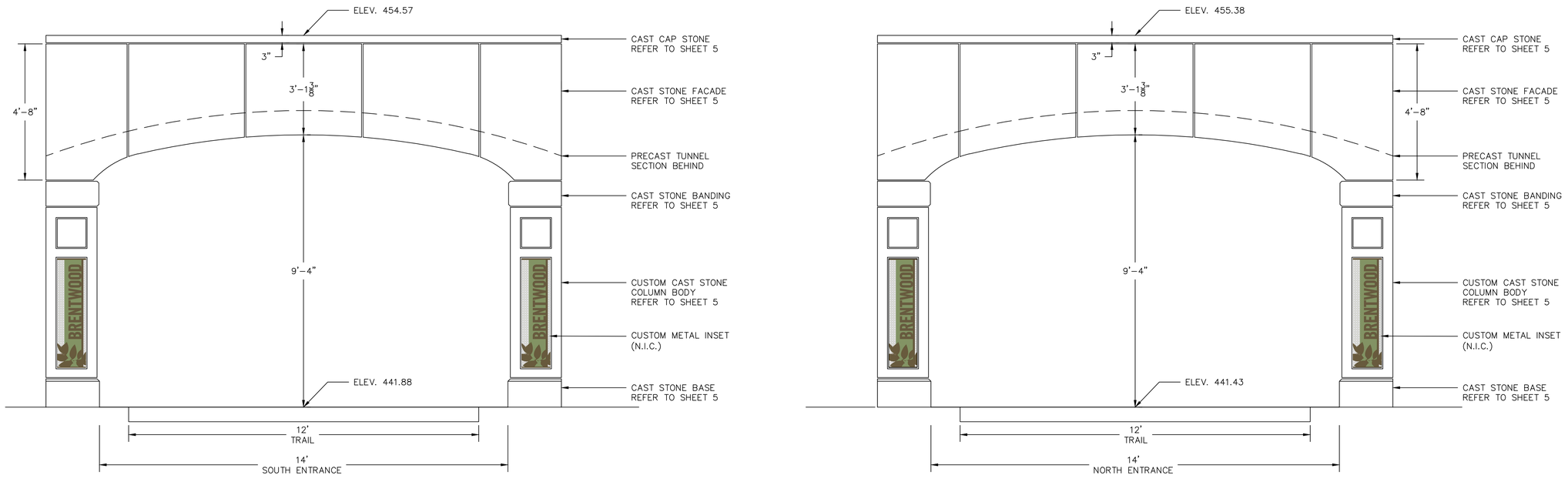
RFV



1/3 MANCHESTER ROAD PEDESTRIAN UNDERPASS

PLAN

NTS



2/3 MANCHESTER ROAD PEDESTRIAN UNDERPASS ENTRANCE FACADE ENHANCEMENTS

ELEVATION

NTS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE

DATE PREPARED
02/05/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 3

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

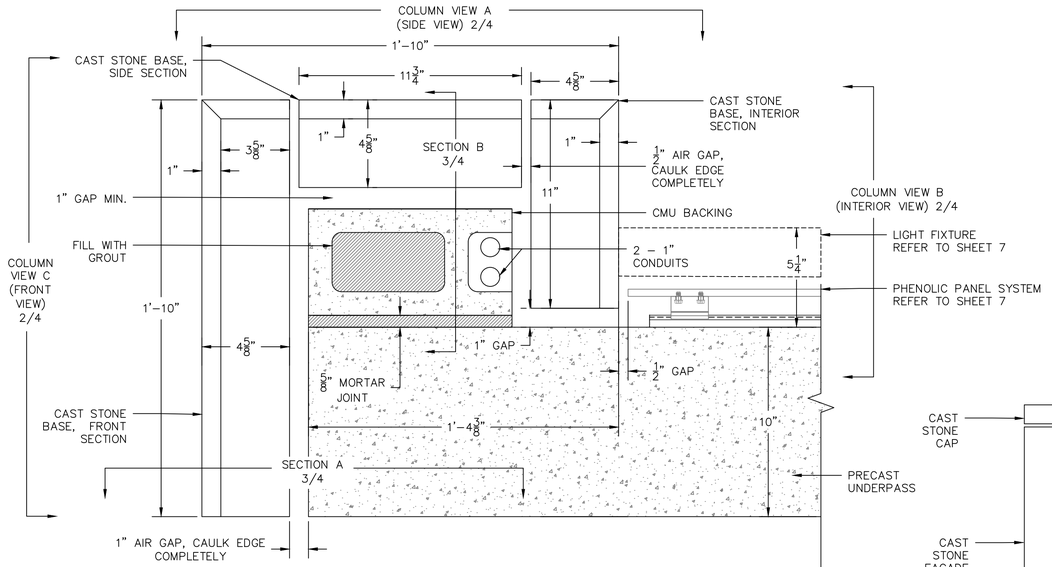
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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727 North First Street Suite 360
Saint Louis, Missouri 63102
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS

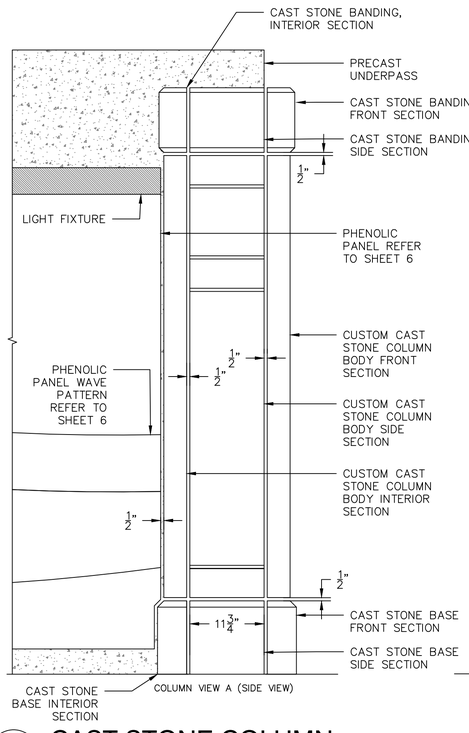
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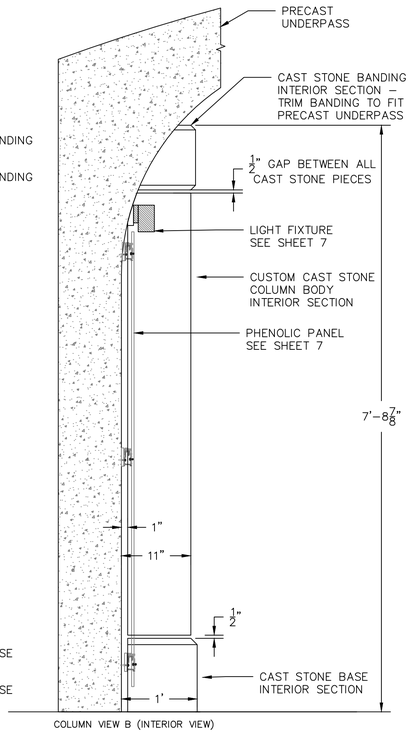
SHEET 3 OF 15

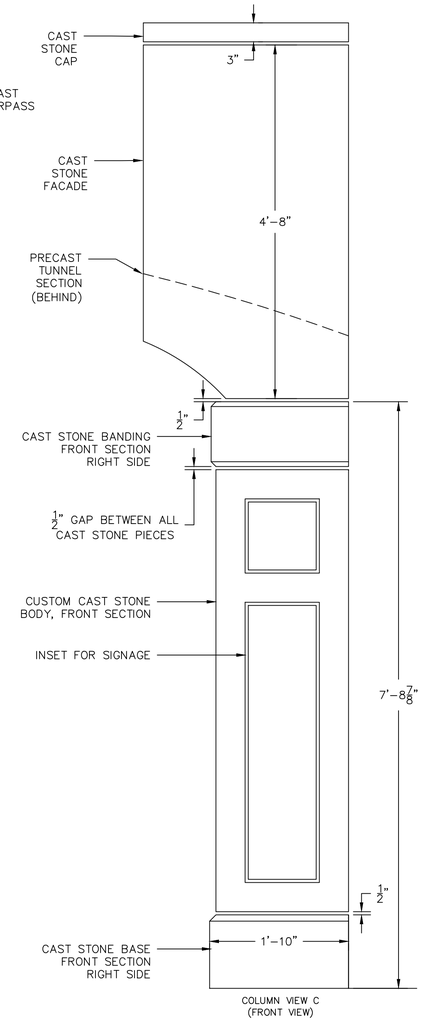


1/4 **CAST STONE COLUMNS**

PLAN NTS

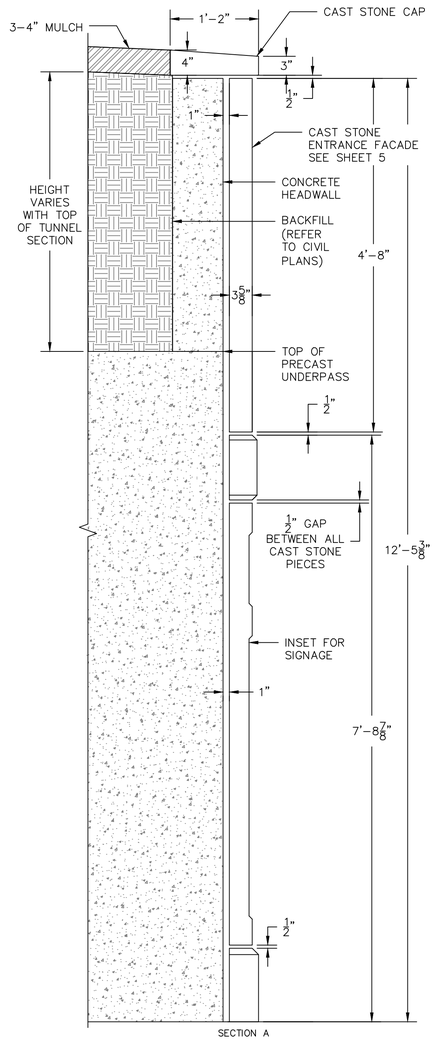


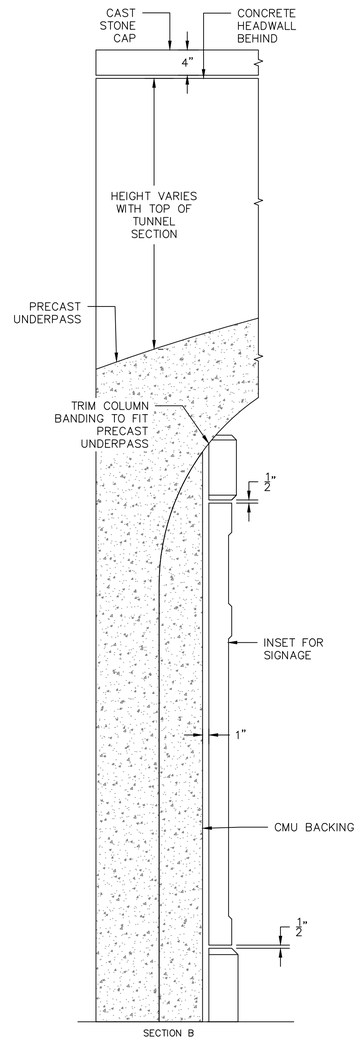




2/4 **CAST STONE COLUMN**

NTS





3/4 **TYPICAL COLUMN SECTIONS**

SECTIONS NTS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 02/05/2020

ROUTE: 100 | STATE: MO

DISTRICT: SL | SHEET NO.: 4

COUNTY: ST. LOUIS

JOB NO.: J6S1718B

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

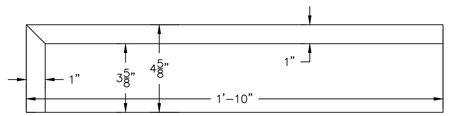
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

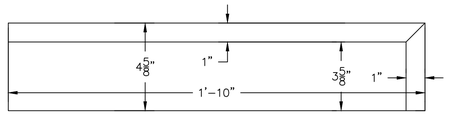
PDS Planning Design Studio
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Saint Louis, Missouri 63102
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
ENTRANCE FACADE
PLAN, SECTIONS/ELEVATIONS
SHEET 4 OF 15

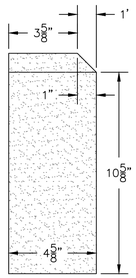
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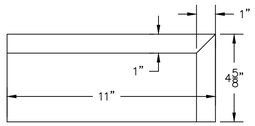
BASE, FRONT SECTION (LEFT SIDE)
PLAN VIEW



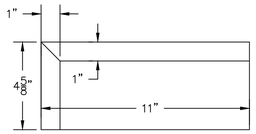
BASE, FRONT SECTION (RIGHT SIDE)
PLAN VIEW



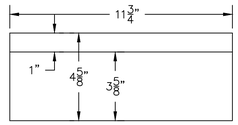
BASE PROFILE
FRONT, SIDE AND
INTERIOR SECTIONS



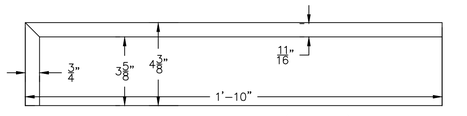
BASE, INTERIOR SECTION (LEFT SIDE)
PLAN VIEW



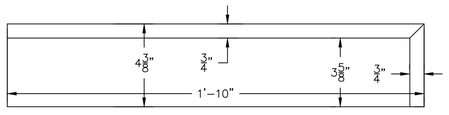
BASE, INTERIOR SECTION (RIGHT SIDE)
PLAN VIEW



BASE, SIDE SECTION
(RIGHT & LEFT SIDES)
PLAN VIEW



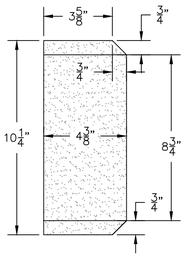
BANDING, FRONT SECTION (LEFT SIDE)
PLAN VIEW



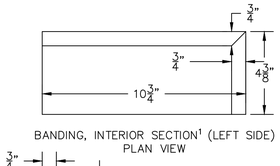
BANDING, FRONT SECTION (RIGHT SIDE)
PLAN VIEW

NOTE:

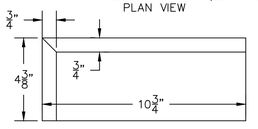
1. TRIM SIDE AND INTERIOR SECTION BANDING TO FIT PRECAST UNDERPASS



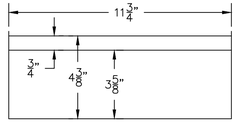
BANDING, FRONT SECTION
(RIGHT & LEFT SIDES)
SECTION VIEW



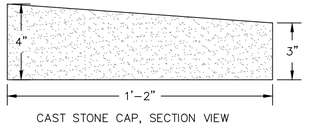
BANDING, INTERIOR SECTION[1] (LEFT SIDE)
PLAN VIEW



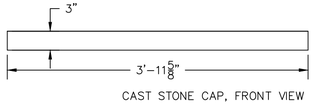
BANDING, INTERIOR SECTION[1] (RIGHT SIDE)
PLAN VIEW



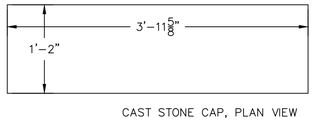
BANDING, SIDE SECTION[1]
(RIGHT & LEFT SIDES)
PLAN VIEW



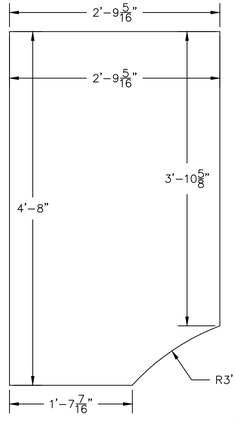
CAST STONE CAP, SECTION VIEW



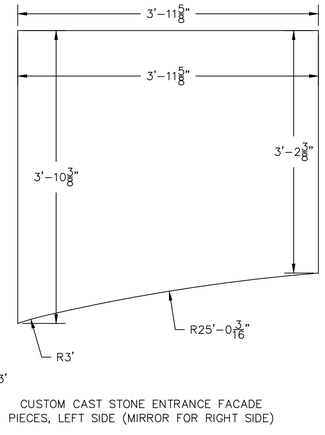
CAST STONE CAP, FRONT VIEW

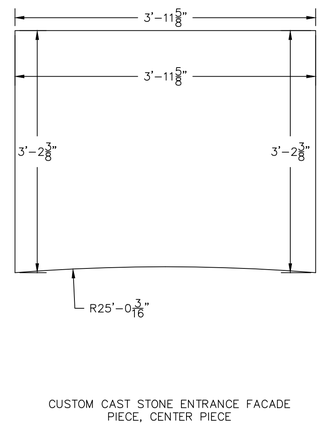


CAST STONE CAP, PLAN VIEW



CUSTOM CAST STONE ENTRANCE FACADE
PIECES, LEFT SIDE (MIRROR FOR RIGHT SIDE)





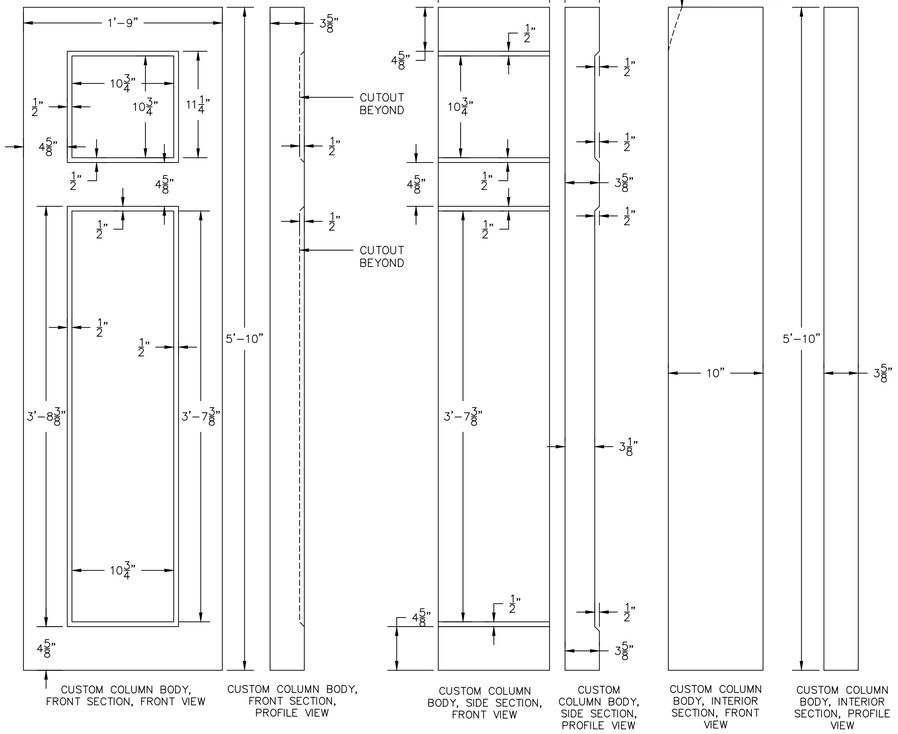
CUSTOM CAST STONE ENTRANCE FACADE
PIECE, CENTER PIECE

1/5 MANCHESTER ROAD PEDESTRIAN UNDERPASS CAST STONE FACADE COMPONENTS

NTS

2/5 CAST STONE ATTACHMENT DETAILS

NTS



CUSTOM COLUMN BODY,
FRONT SECTION, FRONT VIEW

CUSTOM COLUMN BODY,
FRONT SECTION,
PROFILE VIEW

CUSTOM COLUMN
BODY, SIDE SECTION,
FRONT VIEW

CUSTOM
COLUMN BODY,
SIDE SECTION,
PROFILE VIEW

CUSTOM COLUMN
BODY, INTERIOR
SECTION, FRONT
VIEW

CUSTOM COLUMN
BODY, INTERIOR
SECTION, PROFILE
VIEW

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DATE PREPARED: 02/05/2020

ROUTE: 100 | STATE: MO

DISTRICT: SL | SHEET NO.: 5

COUNTY: ST. LOUIS

JOB NO.: J6S1718B

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

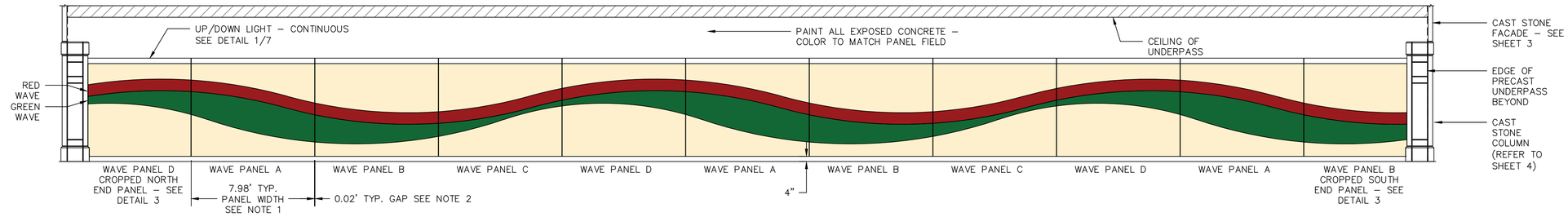
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727 North First Street Suite 360
Saint Louis, Missouri 63102
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
ENTRANCE FACADE
CAST STONE COMPONENTS

SHEET 5 OF 15

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

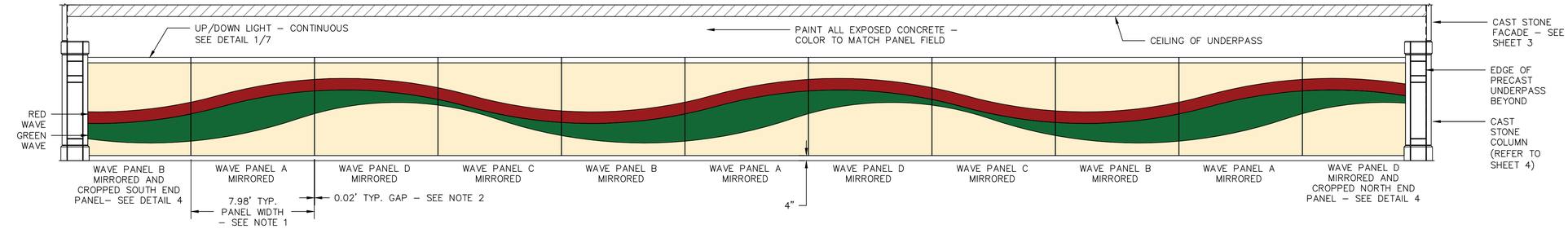


1/6 EAST UNDERPASS WALL - PHENOLIC WALL PANEL SYSTEM - WAVE GRAPHIC

ELEVATION NTS

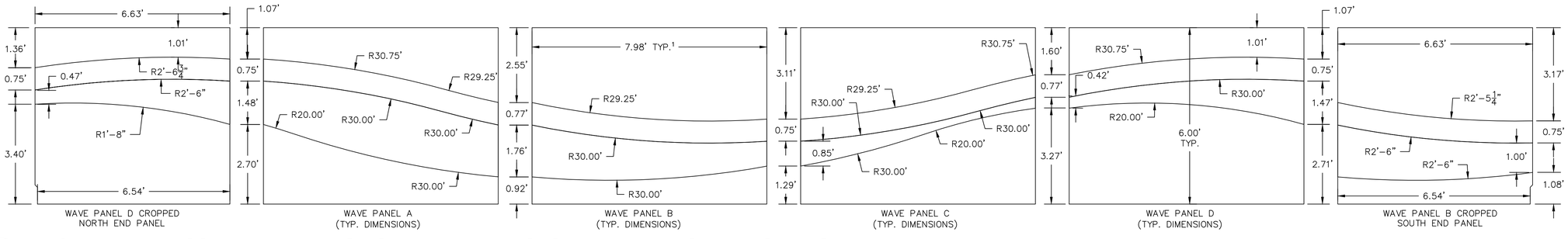
NOTES:

1. PANEL DIMENSIONS TO MATCH EXACT WIDTH OF TUNNEL SECTION BEHIND.
2. PANEL GAP DIMENSIONS TO MATCH EXACT WIDTH OF TUNNEL SECTION GAP.



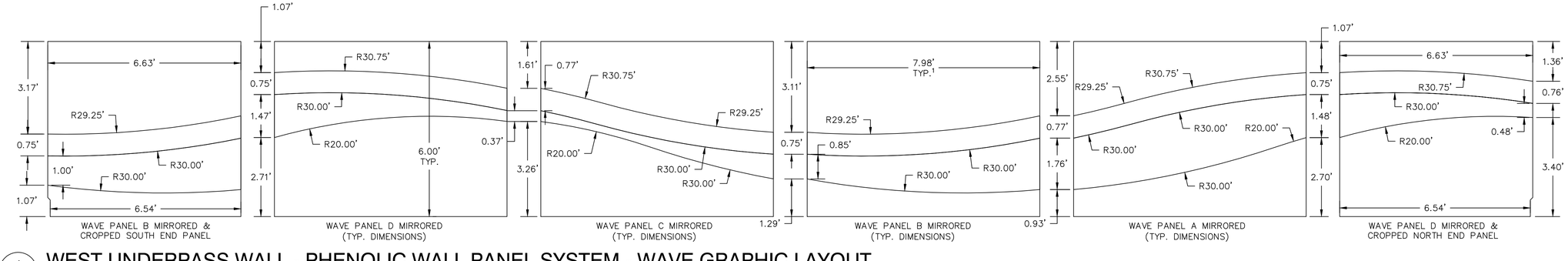
2/6 WEST UNDERPASS WALL - PHENOLIC WALL PANEL SYSTEM - WAVE GRAPHIC

ELEVATION NTS



3/6 EAST UNDERPASS WALL - PHENOLIC WALL PANEL SYSTEM - WAVE GRAPHIC LAYOUT

ELEVATION NTS



4/6 WEST UNDERPASS WALL - PHENOLIC WALL PANEL SYSTEM - WAVE GRAPHIC LAYOUT

ELEVATION NTS

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DATE PREPARED 02/05/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 6

COUNTY ST. LOUIS

JOB NO. J6S1718B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PDS Planning Design Studio

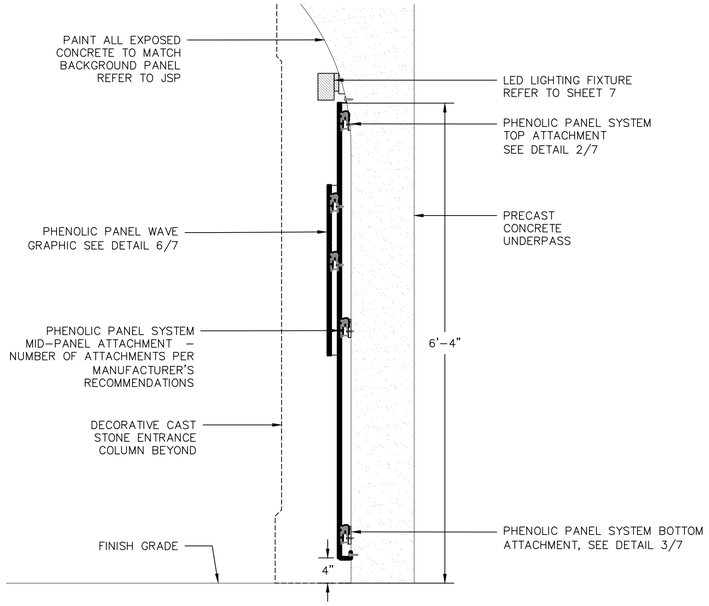
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PHENOLIC WALL SYSTEM
ELEVATIONS

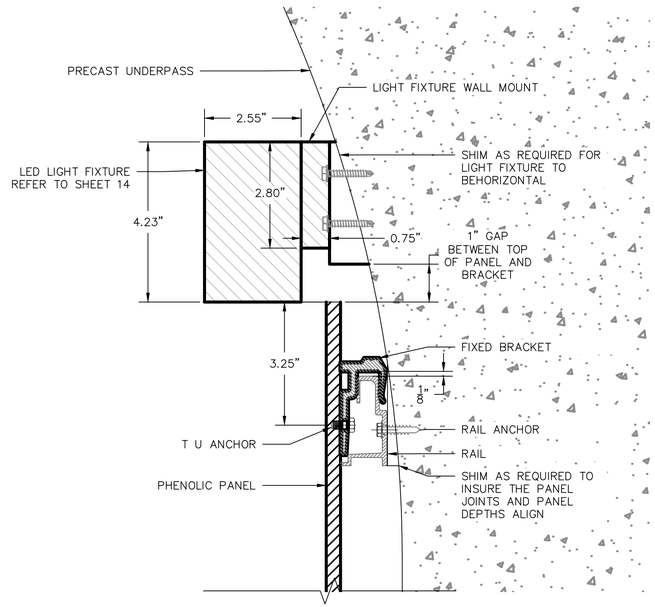
SHEET 6 OF 15

REV.

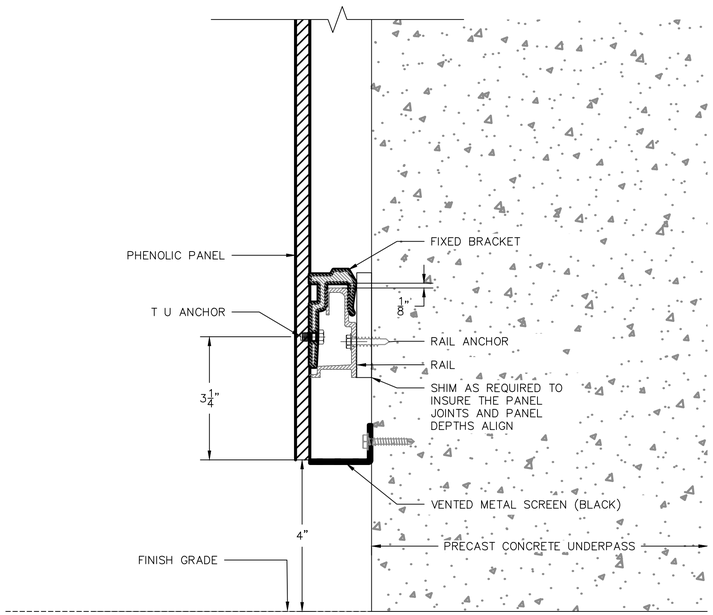
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



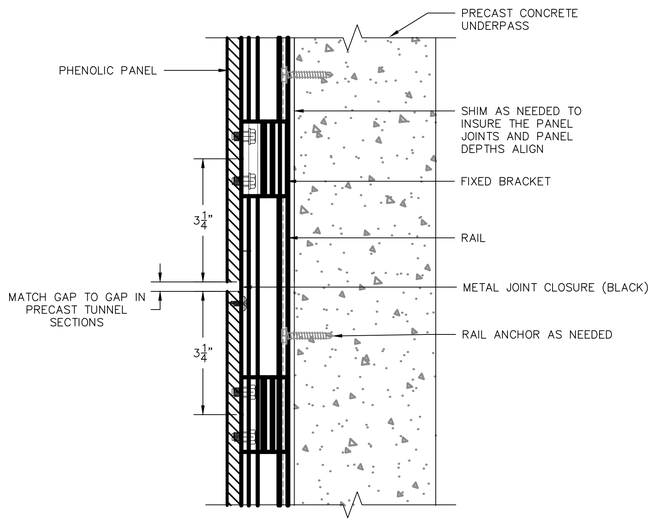
1/7 SECTION — PHENOLIC PANEL SYSTEM AND LED LIGHT FIXTURE ATTACHMENT — NTS



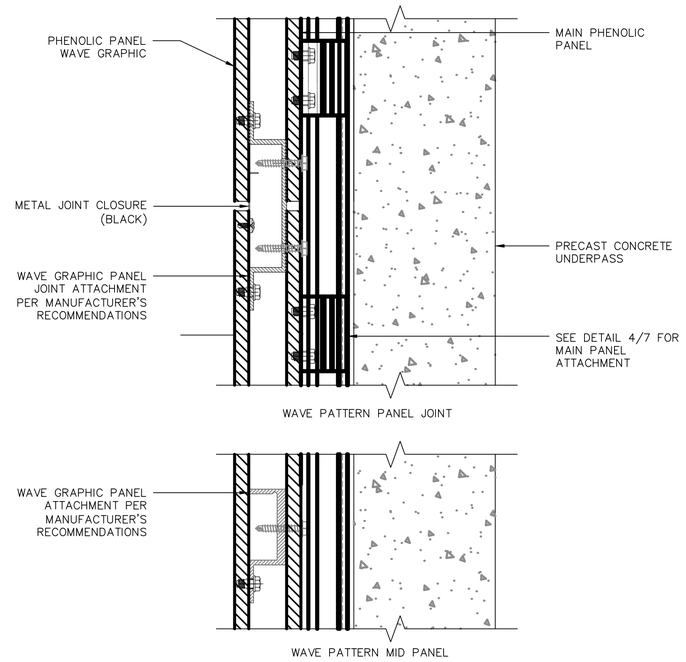
2/7 SECTION — PHENOLIC PANEL SYSTEM TOP BRACKET AND LED LIGHT FIXTURE ATTACHMENT — NTS



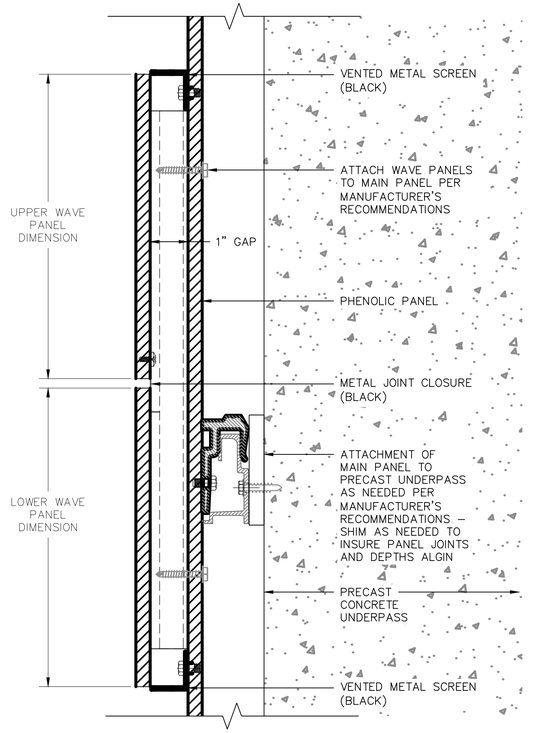
3/7 SECTION — PHENOLIC PANEL SYSTEM BOTTOM ATTACHMENT — NTS



4/7 PLAN — PHENOLIC PANEL ATTACHMENT PLAN VIEW — NTS



5/7 PLAN — PHENOLIC PANEL WAVE GRAPHIC PLAN VIEW — NTS



6/7 SECTION — PHENOLIC PANEL WAVE GRAPHIC ATTACHMENT — NTS

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DATE PREPARED	
02/05/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	7

COUNTY: ST. LOUIS
JOB NO.: J6S1718B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

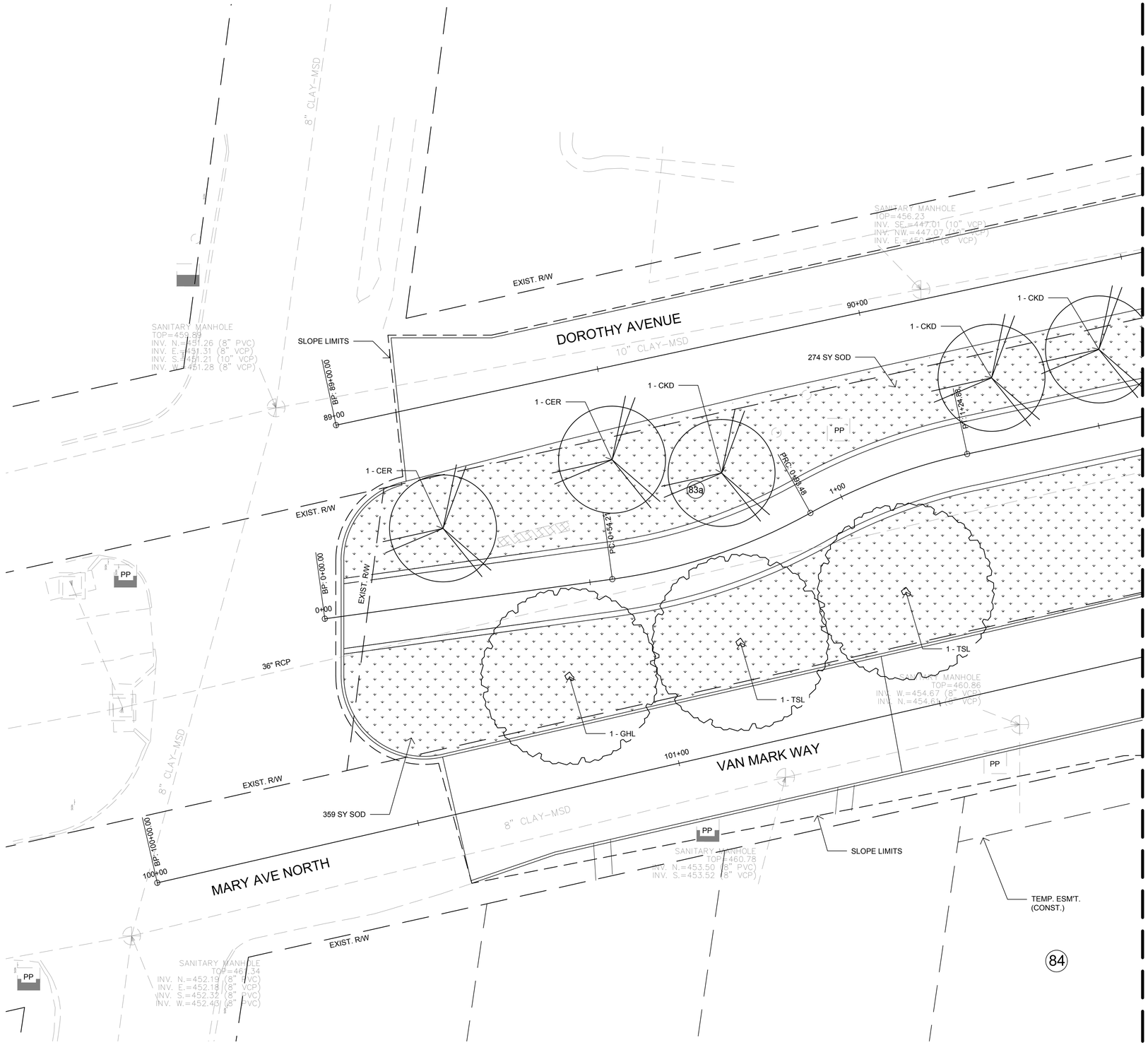
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PDS Planning Design Studio
727 North First Street Suite 360
Saint Louis, Missouri 63102
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PHENOLIC WALL SYSTEM
PLAN AND SECTIONS

SHEET 7 OF 15



LEGEND

CANOPY TREE | ORNAMENTAL TREE | SHRUB

(RGL) GO-LOW SUMAC 36" O.C.

(CTC) THREADLEAF COREOPSIS 18" O.C.

(BSG) SIDEOATS GRAMA 18" O.C.

(PWP) WOODLAND PHLOX 12" O.C.

(SLB) LITTLE BLUESTEM 18" O.C.

(BES) BLACK-EYED SUSAN 12" O.C.

(PDS) PRAIRIE DROPSEED 18" O.C.

TURF SOD

(SHA) HEATH ASTER 18" O.C.

NOTE:
ENTIRE BED AREA SHALL BE PREPARED IN ACCORDANCE WITH SPECIFICATIONS.

LANDSCAPE NOTES

1. REMOVE NATURAL FIBER TIES AND BURLAP FROM TOP OF ROOT BALL ONLY. REMOVE SYNTHETIC TIES AND BURLAP FROM ENTIRE ROOT BALL.
2. ALL PLANT MATERIAL MAY BE TAGGED OR OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO SITE DELIVERY. APPROVAL IN THE NURSERY DOES NOT INDICATE FINAL ACCEPTANCE.
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KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	TOTAL
TREES					
GHL	*Gleditsia triacanthos f. inermis* 'Skyline'	Skyline Honey-Locust	3" CAL	B&B	1
TSL	*Tilia tomentosa*	Silver Linden	3" CAL	B&B	2
CER	*Cercis canadensis*	Eastern Redbud	2" CAL	B&B	2
CKD	*Cornus Kousa*	Kousa Dogwood	2" CAL	B&B	3
PERENNIALS					
SOD		Turf Sod	SY		633

0' 10' 20' 30'
One Inch = Ten Feet

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DATE PREPARED	
02/05/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	8
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

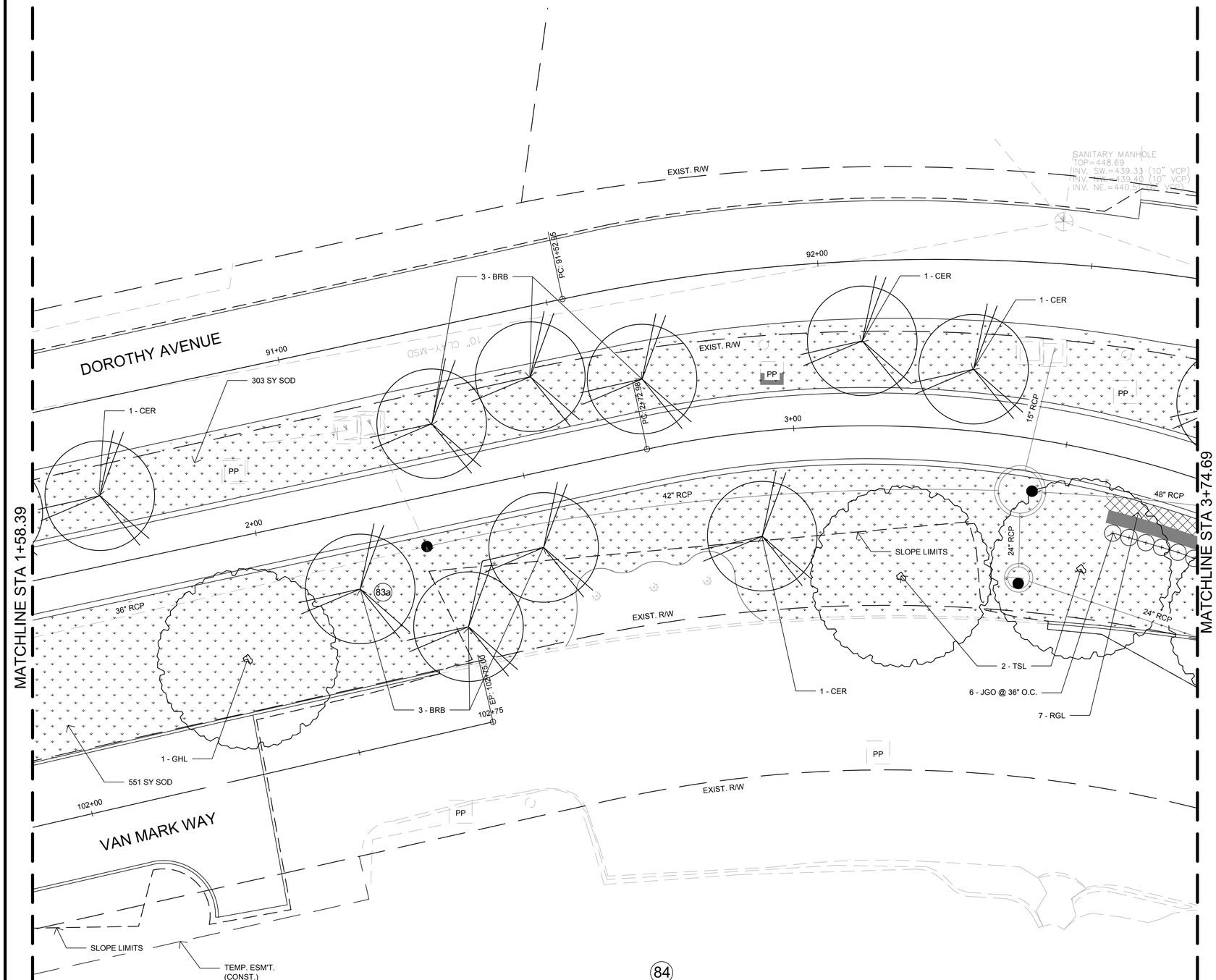
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PDS Planning Design Studio
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Saint Louis, Missouri 63102
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PLANTING PLAN

SHEET 8 OF 15

RFV



LEGEND

CANOPY TREE | ORNAMENTAL TREE | SHRUB

(RGL) GO-LOW SUMAC 36" O.C.

(CTC) THREADLEAF COREOPSIS 18" O.C.

(BSG) SIDEOATS GRAMA 18" O.C.

(PWP) WOODLAND PHLOX 12" O.C.

(SLB) LITTLE BLUESTEM 18" O.C.

(BES) BLACK-EYED SUSAN 12" O.C.

(PDS) PRAIRIE DROPSEED 18" O.C.

TURF SOD

(SHA) HEATH ASTER 18" O.C.

NOTE:
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LANDSCAPE NOTES

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KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	TOTAL
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TSL	*Tilia tomentosa*	Silver Linden	3" CAL	B&B	2
BRB	*Betula nigra*	River Birch	2" CAL	B&B	6
CER	*Cercis canadensis*	Eastern Redbud	2" CAL	B&B	4
SHRUBS					
JGO	*Juniperus virginiana* 'Grey Owl'	Grey Owl Juniper	#3	CONT	6
RGL	*Rhus aromatica* 'Gro-Low'	Gro-Low Sumac	#3	CONT	7
PERENNIALS					
SOD		Turf Sod	SY		854

0' 10' 20' 30'
One Inch = Ten Feet

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DATE PREPARED
02/05/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

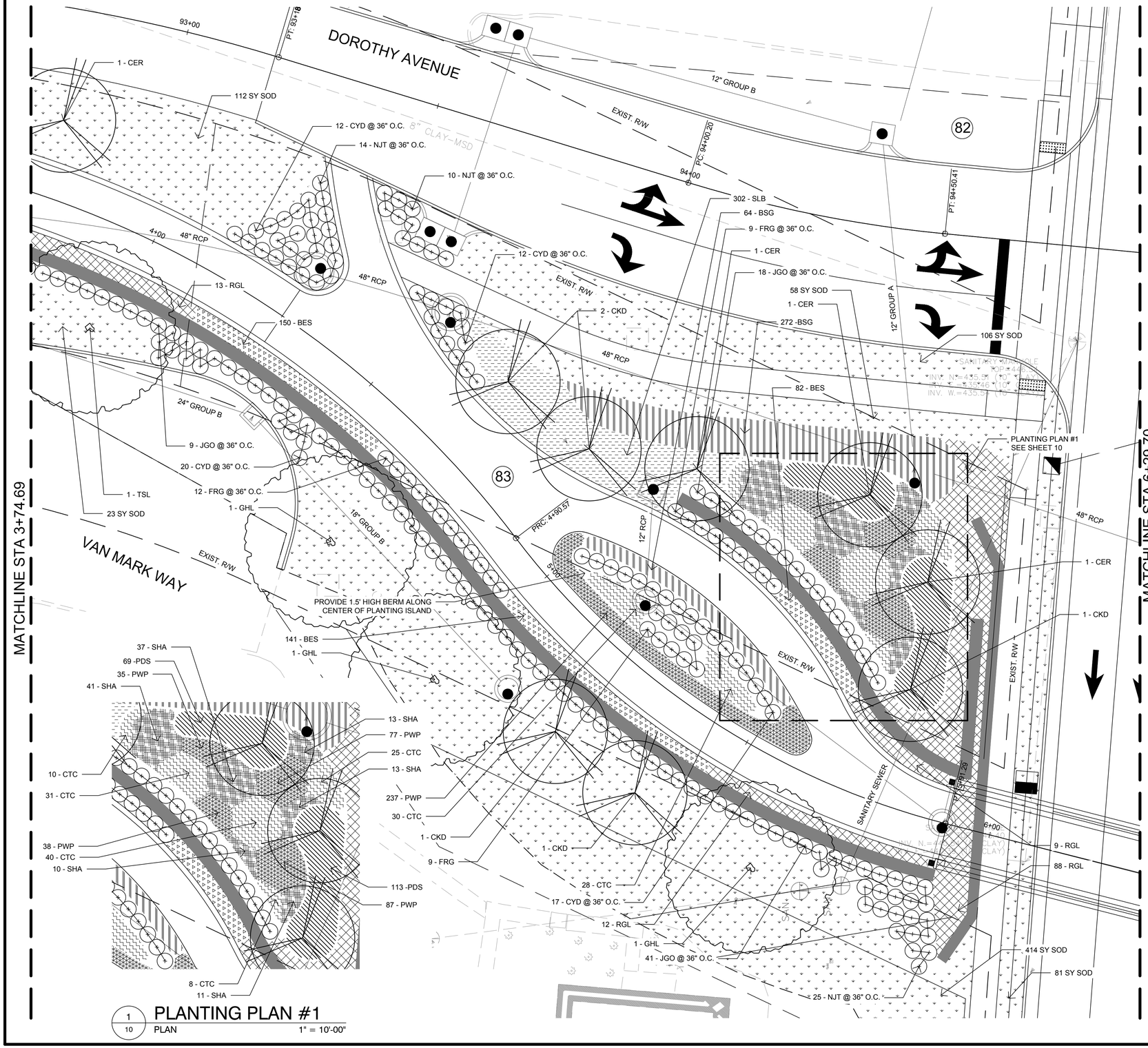
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Saint Louis, Missouri 63102
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PLANTING PLAN

SHEET 9 OF 15

RFV

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED



1/10 PLAN — PLANTING PLAN #1 — 1" = 10'-0"

LEGEND

CANOPY TREE | ORNAMENTAL TREE | SHRUB

(RGL) GO-LOW SUMAC 36" O.C.
(CTC) THREADLEAF COREOPSIS 18" O.C.
(BSG) SIDEOATS GRAMA 18" O.C.
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CKD	*Cornus Kousa*	Kousa Dogwood	2" CAL	B&B	5
SHRUBS					
NJT	*Ceanothus americanus*	New Jersey Tea	#3	CONT	49
CYD	*Cornus sericea* 'Flaviramea'	Yellow Twig Dogwood	#3	CONT	61
JGO	*Juniperus virginiana* 'Grey Owl'	Grey Owl Juniper	#3	CONT	68
RGL	*Rhus aromatica* 'Gro-Low'	Gro-Low Sumac	#3	CONT	122
GRASSES					
BSG	*Bouteloua curtipendula*	Sideoats Grama	#3	CONT	336
FRG	*Calamagrostis x acutiflora* 'Karl Foerster'	Feather Reed Grass	#3	CONT	30
SLB	*Schizachyrium scoparium*	Little Bluestem	#3	CONT	302
PDS	*Sporobolus heterolepis*	Prairie Dropseed	#3	CONT	182
PERENNIALS					
SHA	*Symphyotrichum ericoides*	Heath Aster	#1	CONT	125
CTC	*Coreopsis verticillata*	Threadleaf Coreopsis	#1	CONT	172
PWP	*Phlox divaricata*	Woodland Phlox	#1	CONT	474
BES	*Rudbeckia fulgida*	Black-Eyed Susan	#1	CONT	373
SOD		Turf Sod	SY		794

0' 10' 20' 30'
One Inch = Ten Feet

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DATE PREPARED 02/05/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 10
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

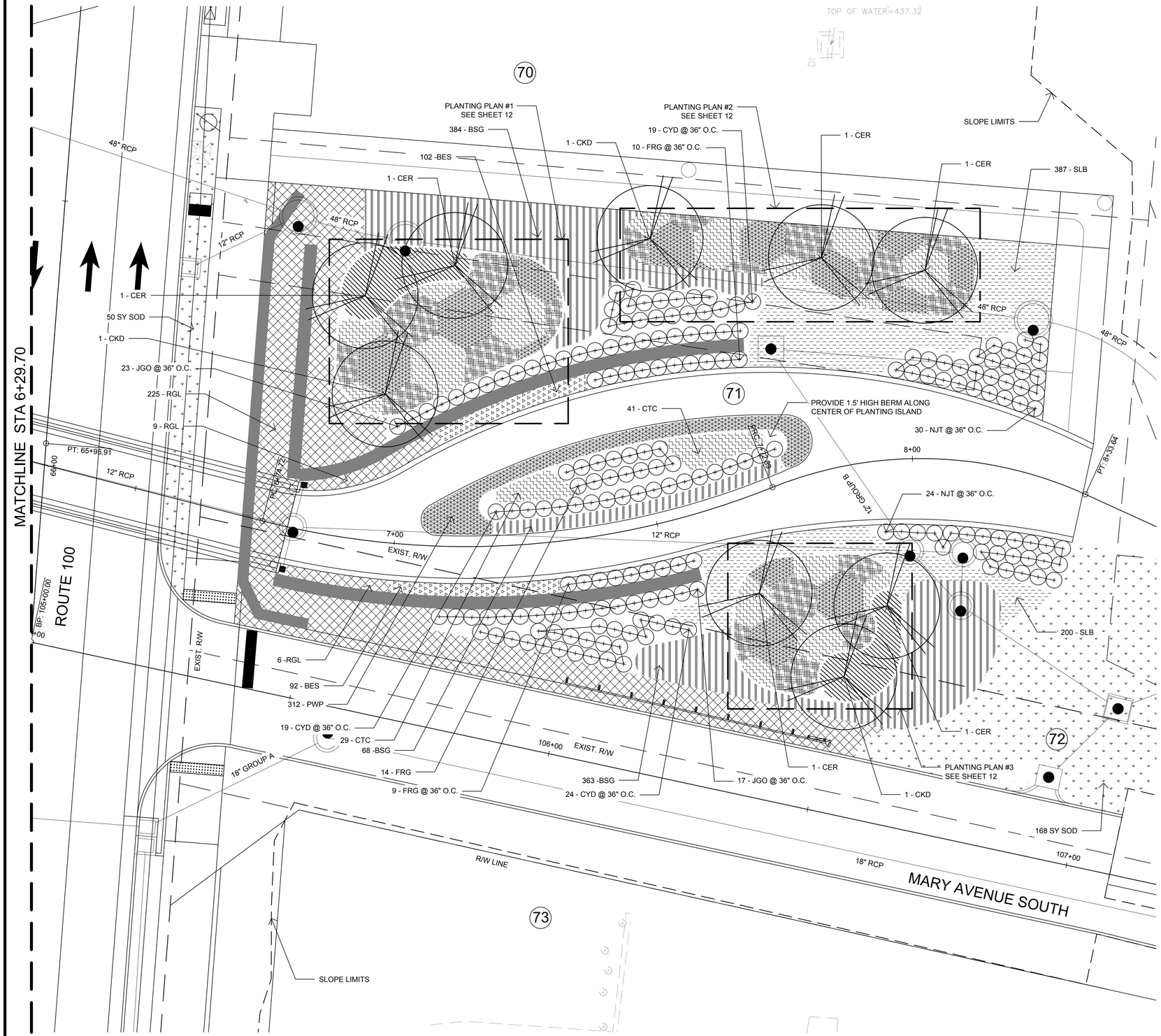
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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727 North First Street Suite 360
Saint Louis, Missouri 63102
P 314.241.3600 F 314.241.3601

LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PLANTING PLAN

SHEET 10 OF 15

RFV



LEGEND

CANOPY TREE | ORNAMENTAL TREE | SHRUB

(RGL) GO-LOW SUMAC 36" O.C.

(CTC) THREADLEAF COREOPSIS 18" O.C.

(BSG) SIDEOATS GRAMA 18" O.C.

(PWP) WOODLAND PHLOX 12" O.C.

(SLB) LITTLE BLUESTEM 18" O.C.

(BES) BLACK-EYED SUSAN 12" O.C.

(PDS) PRAIRIE DROPSEED 18" O.C.

TURF SOD

(SHA) HEATH ASTER 18" O.C.

NOTE:
ENTIRE BED AREA SHALL BE PREPARED IN ACCORDANCE WITH SPECIFICATIONS.

LANDSCAPE NOTES

1. REMOVE NATURAL FIBER TIES AND BURLAP FROM TOP OF ROOT BALL ONLY. REMOVE SYNTHETIC TIES AND BURLAP FROM ENTIRE ROOT BALL.
2. ALL PLANT MATERIAL MAY BE TAGGED OR OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO SITE DELIVERY. APPROVAL IN THE NURSERY DOES NOT INDICATE FINAL ACCEPTANCE.
3. CONTRACTOR IS ADVISED TO STUDY THE PLANS AND VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. REPORT ANY DISCREPANCIES IMMEDIATELY TO OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL USE EXTREME CARE TO AVOID DAMAGE OR DISRUPTIONS TO ANY EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL NOTIFY ALL UTILITIES AND UTILITY NOTIFICATION SERVICES A MINIMUM 48 HOURS IN ADVANCE OF STARTING WORK TO HAVE FACILITIES MARKED IN THE FIELD. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REPAIRS.
5. UTILITIES HAVE BEEN PLOTTED BASED ON AVAILABLE INFORMATION. SPECIFIC LOCATION OF TREE PLANTING NEAR UTILITIES WILL BE VERIFIED AND APPROVED BY OWNER'S REPRESENTATIVE AFTER UTILITY LOCATIONS ARE MARKED IN THE FIELD. KEY KNOWN AREAS OF UTILITY COORDINATION ARE REFERENCED BACK TO THIS NOTE, BUT OTHERS MAY EXIST AND SHOULD BE IDENTIFIED TO THE OWNER'S REPRESENTATIVE.
6. CONTRACTOR SHALL FULLY COORDINATE WORK WITH WORK BEING PREFORMED BY OTHER CONTRACTORS.
7. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREES AND SHRUB/GROUNDCOVER BEDS FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
8. THE CONTRACTOR SHALL STAKE AND BRACE ALL TREES IMMEDIATELY FOLLOWING INSTALLATION ACCORDING TO PLANS, DETAILS AND SPECIFICATIONS.
9. ALL EDGES OF PLANTING BEDS SHALL BE SPADE CUT UNLESS OTHERWISE SPECIFIED.
10. REFER TO THE AMERICAN STANDARDS FOR NURSERY STOCK (ASNS) FOR INFORMATION ON PLANT SIZES AND CONDITIONS.
11. ALL DISTURBED AREAS NOT SHOWN AS SOD OR PLANTING AREAS TO BE SEEDED WITH APPROVED TURF SEED MIX AS DESCRIBED IN TECHNICAL SPECIFICATIONS.

KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	TOTAL
TREES					
CER	*Cercis canadensis*	Eastern Redbud	2" CAL	B&B	6
CKD	*Cornus Kousa*	Kousa Dogwood	2" CAL	B&B	3
SHRUBS					
NJT	*Ceanothus americanus*	New Jersey Tea	#3	CONT	54
CYD	*Cornus sericea* 'Flaviramea'	Yellow Twig Dogwood	#3	CONT	62
JGO	*Juniperus virginiana* 'Grey Owl'	Grey Owl Juniper	#3	CONT	40
RGL	*Rhus aromatica* 'Gro-Low'	Gro-Low Sumac	#3	CONT	240
GRASSES					
BSG	*Bouteloua curtipendula*	Sideoats Grama	#3	CONT	815
FRG	*Calamagrostis x acutiflora* 'Karl Foerster'	Feather Reed Grass	#3	CONT	33
SLB	*Schizachyrium scoparium*	Little Bluestem	#3	CONT	587
PERENNIALS					
CTC	*Coreopsis verticillata*	Threadleaf Coreopsis	#1	CONT	70
PWP	*Phlox divaricata*	Woodland Phlox	#1	CONT	312
BES	*Rudbeckia fulgida*	Black-Eyed Susan	#1	CONT	194
SOD		Turf Sod	SY		218

0' 10' 20' 30'
One Inch = Ten Feet

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/05/2020	
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	11
COUNTY	
ST. LOUIS	
JOB NO.	
J6S1718B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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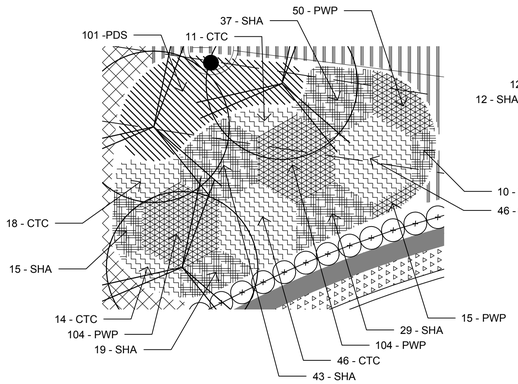
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PLANTING PLAN

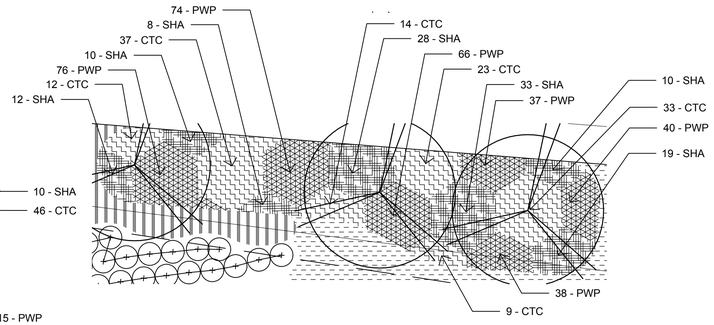
SHEET 11 OF 15

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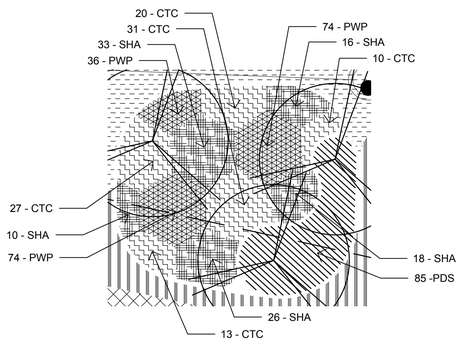
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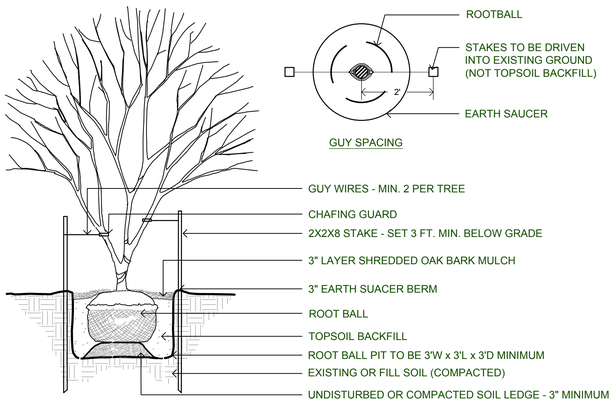
1/12 PLANTING PLAN #1
PLAN 1" = 10'-00"



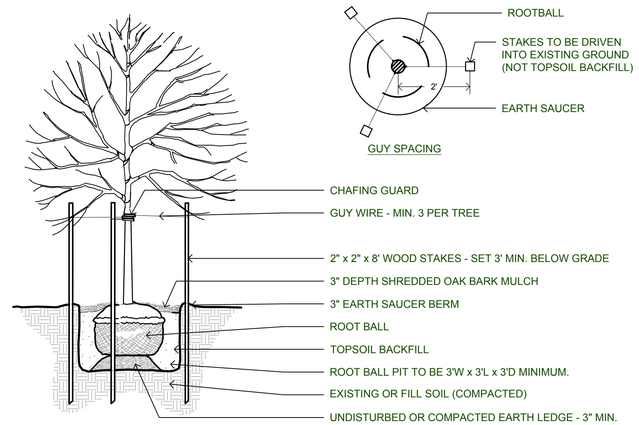
2/12 PLANTING PLAN #2
PLAN 1" = 10'-00"



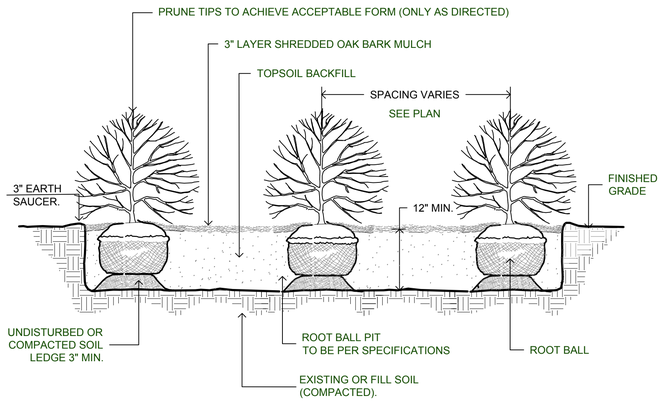
3/12 PLANTING PLAN #3
PLAN 1" = 10'-00"



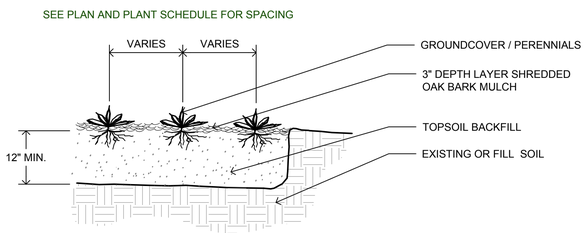
4/12 ORNAMENTAL TREE PLANTING
PLAN & SECTION NTS



5/12 CANOPY TREE PLANTING
PLAN & SECTION NTS



6/12 DECIDUOUS SHRUB PLANTING
SECTION NTS



NOTE:
ENTIRE BED AREA SHALL BE PREPARED IN ACCORDANCE WITH SPECIFICATIONS.

7/12 GROUNDCOVER AND PERENNIAL PLANTING
SECTION NTS

LEGEND

CANOPY TREE · ORNAMENTAL TREE · SHRUB

(RGL) GO-LOW SUMAC 36" O.C.
(CTC) THREADLEAF COREOPSIS 18" O.C.
(BSG) SIDEOATS GRAMA 18" O.C.
(PWP) WOODLAND PHLOX 12" O.C.
(SLB) LITTLE BLUESTEM 18" O.C.
(BES) BLACK-EYED SUSAN 12" O.C.
(PDS) PRAIRIE DROPSEED 18" O.C.
TURF SOD
(SHA) HEATH ASTER 18" O.C.

NOTE:
ENTIRE BED AREA SHALL BE PREPARED IN ACCORDANCE WITH SPECIFICATIONS.

LANDSCAPE NOTES

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11. ALL DISTURBED AREAS NOT SHOWN AS SOD OR PLANTING AREAS TO BE SEEDED WITH APPROVED TURF SEED MIX AS DESCRIBED IN TECHNICAL SPECIFICATIONS.

KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	TOTAL
GRASSES					
PDS	*Sporobolus heterolepis*	Prairie Dropseed	#3	CONT	186
PERENNIALS					
SHA	*Symphyotrichum ericoides*	Heath Aster	#1	CONT	376
CTC	*Coreopsis verticillata*	Threadleaf Coreopsis	#1	CONT	466
PWP	*Phlox divaricata*	Woodland Phlox	#1	CONT	788

0' 10' 20' 30'
One Inch = Ten Feet

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DATE PREPARED 02/05/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 12
COUNTY ST. LOUIS
JOB NO. J6S1718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

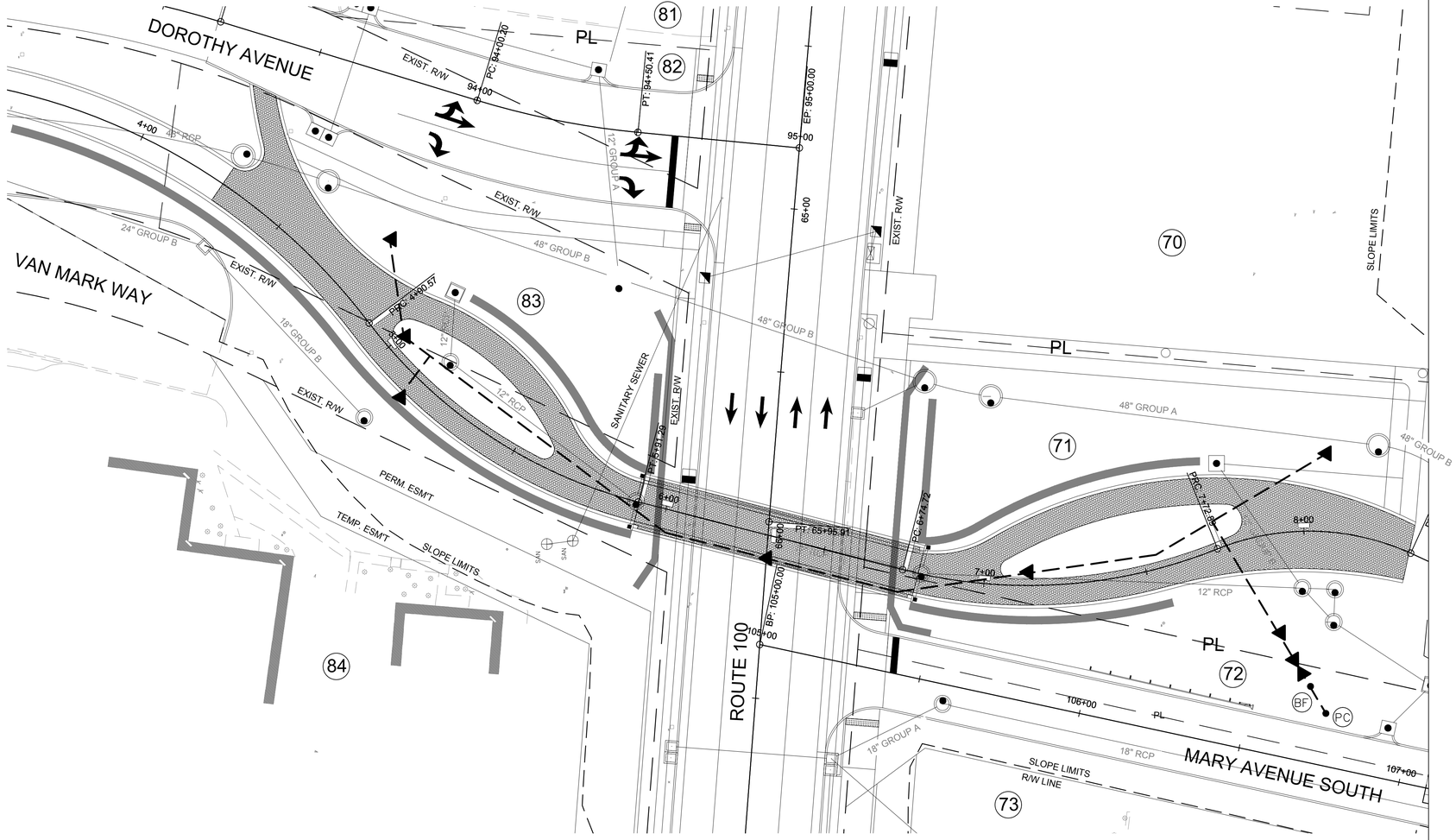
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
PLANTING DETAILS

SHEET 12 OF 15

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RFV

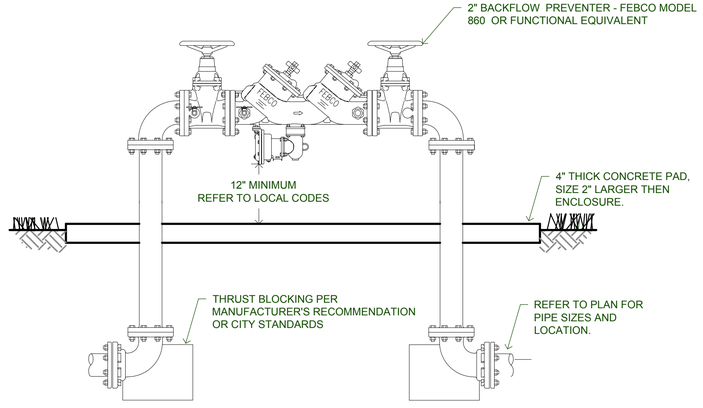


LEGEND

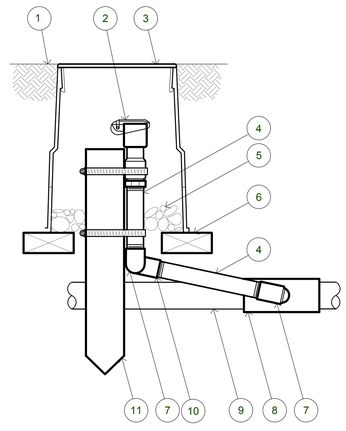
- QUICK COUPLER
- IRRIGATION MAIN - 2" CLASS 200 PVC
- (PC) POINT OF CONNECTION/METER
- VALVE
- (BF) BACKFLOW

NOTES

1. IRRIGATION PLAN IS SCHEMATIC ONLY. THE CONTRACTOR IS TO UTILIZE THIS SCHEMATIC PLAN AS THE BASIS OF HIS DESIGN.
2. BOUNDARIES AND AREAS DEFINED IN THIS PLAN ARE SCHEMATIC ONLY. CONTRACTOR IS TO VERIFY IN THE FIELD ACTUAL LOCATIONS OF THE AREAS TO BE IRRIGATED FOR SHAPE, SIZE, AND IRRIGATION METHOD.
3. CONTRACTOR SHALL INSTALL SYSTEM PER LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
4. COORDINATE WITH THE LANDSCAPE CONTRACTOR FOR BED LOCATIONS.
5. ALL MAINLINE AND LATERAL LINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SLEEVES. MAIN AND LATERAL LINE SLEEVES SHALL BE A MINIMUM OF TWICE THE DIAMETER OF THE PIPE WITHIN. CONTROL WIRE MAY BE INSTALLED IN THE SAME SLEEVES AS MAINLINE.
6. ALL DAMAGED AN REJECTED PIPE WILL BE REMOVED FROM THE SITE AT THE TIME OF REJECTION.
7. ALL PIPING, VALVES, ETC. WILL BE INSTALLED IN PLANTING AREAS / SHRUB BEDS WHEREVER POSSIBLE.
8. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING, WALLS, STRUCTURES AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY INSTALLATION OPERATIONS.
9. THE IRRIGATION CONTRACTOR SHALL COORDINATE THE IRRIGATION WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
10. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE AND CAPACITY PRIOR TO DESIGN AND CONSTRUCTION, REPORT THE DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED AND THE ACTUAL PRESSURE AVAILABLE AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S REPRESENTATIVE. REFER TO SPECIFICATIONS FOR AVAILABLE WATER PRESSURE.
11. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED WILL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
12. ALL VALVES, GATE VALVES, QUICK COUPLERS SHALL BE INSTALLED IN APPROVED VALVE BOXES.
13. QUICK COUPLER VALVES SHALL BE LOCATED AND INSTALLED AS INDICATED ON THE DRAWINGS AND DETAILS.



1/13 BACKFLOW PREVENTER
SECTION NTS



2/13 QUICK COUPLING VALVE : MODEL 3RC
SECTION NTS

0' 20' 40' 60'
One Inch = Twenty Feet

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DATE PREPARED 02/05/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	13

COUNTY ST. LOUIS

JOB NO. J6S1718B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

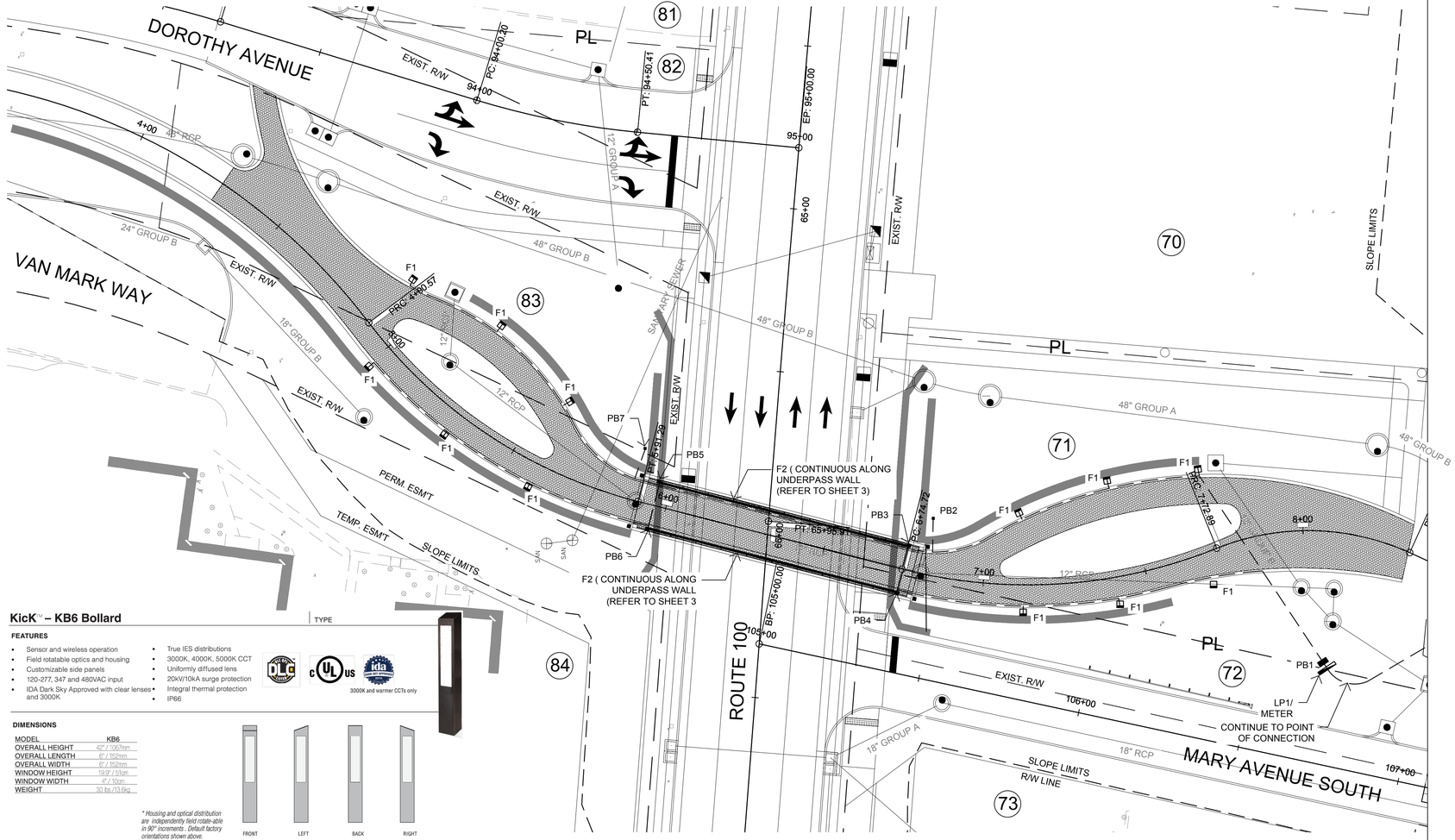
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LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
IRRIGATION
PLAN AND DETAILS

SHEET 13 OF 15

RFV



LEGEND

- F1 - LED LIGHT BOLLARD FIXTURE
- F2 - LED UNDERPASS UP/DOWN LIGHT FIXTURE
- LINE PANEL/METER (LP)
- PULL BOX (PB)
- CONDUIT/WIRE RUN

KicK™ – KB6 Bollard

TYPE

FEATURES

- Sensor and wireless operation
- Field rotatable optics and housing
- Customizable side panels
- 120-277, 347 and 480VAC input
- IDA Dark Sky Approved with clear lenses and 3000K
- True IES distributions
- 3000K, 4000K, 5000K CCT
- Uniformly diffused lens
- 20kV/10kA surge protection
- Integral thermal protection
- IP66

3000K and warmer CCTs only

DIMENSIONS

MODEL	KB6
OVERALL HEIGHT	42" / 1067mm
OVERALL LENGTH	6" / 152mm
OVERALL WIDTH	6" / 152mm
WINDOW HEIGHT	19-9" / 51cm
WINDOW WIDTH	4" / 10cm
WEIGHT	30 lbs /13.6kg

* *Housing and optical distribution are independently field rotate-able in 90° increments. Default factory orientations shown above.*

DISTRIBUTION OUTPUT*	Street Side		House Side	
SHIELDING SIDE	A	B	C	D

ORDERING INFORMATION

1	2	3	4	5	6	7
Model	Distribution	Shielding	Light Engine	Controls	Voltage	Fixture Finish

1. MODEL
KB6 *6" Square x 42 OAH bollard*

2. DISTRIBUTION
Y2 *IES Type II, clear lens*
Y3 *IES Type III, clear lens*
Y4 *IES Type IV, clear lens*
Y5 *IES Type V, clear lens*
YD *Symmetric distribution, diffused lens*

3. SHIELDING
Optional, may choose from 1 to 3 sides closed from options A, B, C, D or you may choose HSS option.
A *Short side closed*
B *Side 90° counterclockwise from short side closed*
C *Side 180° counterclockwise from short side closed*
D *Side 270° counterclockwise from short side closed*
HSS *House side shield [2]*

4. LIGHT ENGINE
2050 *5000K CCT, 29 watts*
2040 *4000K CCT, 29 watts*
2030 *3000K CCT, 29 watts*
1050 *5000K CCT, 14 watts*
1040 *4000K CCT, 14 watts*
1030 *3000K CCT, 14 watts*
560nm monochromatic amber and or custom lumen package available by request. [1]

5. CONTROL
May choose one
SC-MW *Motion Sensor*
WIR *wiScape Connectivity*
BPC *Button Type Photocell*

6. VOLTAGE
120-277VAC input or may choose one.
347 *347VAC input*
480 *480VAC input*

7. FIXTURE FINISH
Standard Color
AGN *Antique Green*
BL *Black*
BLT *Matte Black*
CRT *Corten*
DB *Dark Bronze*
DGN *Dark Green*
GT *Graphite*
LG *Light Grey*
MAL *Matte Aluminum*
MDB *Bronze Metallic*
MG *Medium Grey*
TT *Titanium*
WH *Arctic White*
WDB *Weathered Bronze*
VBU *Verde Blue*
Premium Color
SHK *Shamrock*
SPP *Salt and Pepper*
SFM *Seafoam*
WCP *Weathered Copper*
RAL *RAL 4 digit Color*
CUSTOM *Custom Color*

[1] *Contact factory*
[2] *House side shield assemblies to optical lens and is independent of outer housing.*

architectural area lighting
ARCHITECTURAL AREA LIGHTING
17760 Rowland Street | City of Industry | CA 91748
P 626.968.5666 | F 626.369.2695 | www.aal.net
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JOB
TYPE
NOTES

| 1 |

1/14 F1 - LED BOLLARD FIXTURE NTS

Pursuit™ – Bidirectional (Up & Down)

TYPE

FEATURES

- 2', 3', 4', 6' & 8' Housing Lengths
- Sections can be joined for runs up to 150' with seamless lens
- IP66 Rated
- Light Engine is independently rated IP67
- Electrical Connections IP68 rated
- Symmetric, Asymmetric, Wall Graze & Wall Wash Distributions
- "L", "T" & "X" Illuminated connectors for custom shapes
- NX Distributed Intelligence & SiteSync enabled for wireless control
- Output up to 1,500 lm/ft
- Fixed arm, pendant, wall & mullion mounting options

NX DISTRIBUTED INTELLIGENCE SiteSync LIGHTING SYSTEMS

IK08

ORDERING CODE

1	2	3	4	5	6	7	8	9	10	11	12	13
RN	ID											
Model	Light Engine	Row Length	Max Section Length	Output	Color Temp	Down Distribution	Up Distribution	Shielding	Voltage	Mounting	Options	Finish

1. MODEL
RN Pursuit

2. LIGHT ENGINE
ID Bidirectional (Up & Down Light)

3. ROW LENGTH
Manual Input (150' Max length. round up to nearest whole foot)

4. MAXIMUM FIXTURE SECTION LENGTH
2 2' Fixture
3 3' Fixture
4 4' Fixture
6 6' Fixture
8 8' Fixture

7. DIRECT DISTRIBUTIONS
SM Symmetrical
AS Asymmetrical
WG Wall graze
WW Wall wash

8. INDIRECT DISTRIBUTIONS
SM Symmetrical
AS Asymmetrical
WG Wall graze
WW Wall wash

9. SHIELDING
Direct
DL Diffuse lens-Down only
CL Clear lens

12. OPTIONS
EMF1 End Power Feed at one end
EMF2 End Power Feed at both ends
Photocell Options
PC Button Photocell [1]
Control Options–Not with PC [1]
SCP Dim Occupancy Sensor
SWP SiteSync Wireless
SWPM SiteSync Wireless with SCP
NXWE NX Wireless Enabled
NXOSW NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting
Emergency Battery Option
EM Battery Backup Unit (-20°C) [3]

5. OUTPUT
5 500 lumens/ft
7 750 lumens/ft
10 1000 lumens/ft [3]
15 1500 lumens/ft [3]

6. COLOR TEMPERATURE
3K8 3000K, 80 CRI
3K9 3000K, 90 CRI
4K8 4000K, 80 CRI
4K9 4000K, 90 CRI
5K8 5000K, 80 CRI
Consult factory for additional CCT options.

10. VOLTAGE
UNV 120-277V
347 347V
480 480V

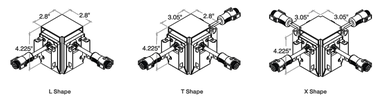
11. MOUNTING
W Wall
F3 3' Fixed arm
F6 6' Fixed arm
F12 12" Fixed arm
M Mullion
PSW12 12"Pendant
PSW24 24"Pendant
PSW36 36"Pendant

13. FIXTURE FINISH
Standard Color
BL Black
BLT Matte Black
DB Dark Bronze
GT Graphite
MG Medium Grey
TT Titanium
WH White
CUSTOM Custom Color

Note:
[1] Requires auxiliary housing. Fixture length will increase.
[2] Integral battery backup for 3, 4, 6 and 8 foot versions only. Not available on 2' housing.
[3] Not available on 2 or 3' housing.

ACCESSORIES
Illuminated connectors: see separate spec sheet

ILLUMINATED CONNECTORS (Enables Custom Shapes)
RNLTX-L L shape
RNLTX-T T shape
RNLTX-X X shape



architectural area lighting
ARCHITECTURAL AREA LIGHTING
17760 Rowland Street | City of Industry | CA 91748
P 626.968.5666 | F 626.369.2695 | www.aal.net
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JOB
TYPE
NOTES

| 1 |

2/14 F2 - LED UNDERPASS UP/DOWN LIGHT FIXTURE NTS

0' 20' 40' 60'
One Inch = Twenty Feet

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/05/2020	
ROUTE 100	STATE MO
DISTRICT SL	SHEET NO. 14
COUNTY ST. LOUIS	
JOB NO. J6S1718B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PDS Planning Design Studio
727 North First Street Suite 360
Saint Louis, Missouri 63102
P 314.241.3600 F 314.241.3601

LANDSCAPE PLANS
UNDERPASS ENHANCEMENTS
LANDSCAPE LIGHTING
PLAN AND DETAILS

SHEET 14 OF 15

RFV

UNDERPASS CAST STONE FACADE AND PHENOLIC PANELS									
SHEET	STA TO STA		LOCATION		COLUMN (NO. UNITS)	FACADE (SF)	COPING (LF)	PHENOLIC WALL PANEL (SF)	PHENOLIC PANEL WAVE (SF)
1	5+91.57		ROGERS PARKWAY	R	1				
1	5+91.57		ROGERS PARKWAY	L	1				
1	5+91.57		ROGERS PARKWAY	R/L		65			
1	5+91.57		ROGERS PARKWAY	R/L			18		
1 & 2	5+91.57	6+79.40	ROGERS PARKWAY	R				511	
1 & 2	5+91.57	6+79.78	ROGERS PARKWAY	L				511	
1 & 2	5+91.57	6+79.40	ROGERS PARKWAY	R					165
1 & 2	5+91.57	6+79.78	ROGERS PARKWAY	L					165
2	6+79.40		ROGERS PARKWAY	R	1				
2	6+79.78		ROGERS PARKWAY	L	1				
2	6+79.40	6+79.78	ROGERS PARKWAY	R/L		65			
2	6+79.40	6+79.78	ROGERS PARKWAY	R/L			18		

UNDERPASS PAVER AND GRAVEL						
SHEET	STA TO STA		LOCATION		PAVER (SF)	ROCK (CF)
1	4+28.55	5+91.57	ROGERS PARKWAY	R	985	22
1	4+20.41	5+91.57	ROGERS PARKWAY	L	1994	44
1 & 2	5+91.57	6+79.40	ROGERS PARKWAY	R	174	4
1 & 2	5+91.57	6+79.78	ROGERS PARKWAY	L	173	4
2	6+79.40	8+34.91	ROGERS PARKWAY	R	1178	25
2	6+79.78	8+31.55	ROGERS PARKWAY	L	1680	37

ITEM NO.	KEY	BOTANICAL NAME	COMMON NAME	SHT 8	SHT 9	SHT 10	SHT 11	SHT12	SIZE	CONDITION	TOTAL
	TREES										
	GHL	*Gleditsia triacanthos f. inermis* 'Skyline'	Skyline Honey-Locust	1	1	3			3" CAL	B&B	5
	TSL	*Tilia tomentosa*	Silver Linden	2	2	1			3" CAL	B&B	5
	BRB	*Betula nigra*	River Birch		6				2" CAL	B&B	6
	CER	*Cercis canadensis*	Eastern Redbud	2	4	4	6		2" CAL	B&B	16
	CKD	*Cornus Kousa*	Kousa Dogwood	3		5	3		2" CAL	B&B	11
	SHRUBS										
	NJT	*Ceanothus americanus*	New Jersey Tea			49	54		#3	CONT	103
	CYD	*Cornus sericea* 'Flaviramea'	Yellow Twig Dogwood			61	62		#3	CONT	123
	JGO	*Juniperus virginiana* 'Grey Owl'	Grey Owl Juniper		6	68	40		#3	CONT	114
	RGL	*Rhus aromatica* 'Gro-Low'	Gro-Low Sumac		7	122	240		#3	CONT	369
	GRASSES										
	BSG	*Bouteloua curtipendula*	Sideoats Grama			336	815		#3	CONT	1151
	FRG	*Calamagrostis x acutiflora* 'Karl Foerster'	Feather Reed Grass			30	33		#3	CONT	63
	SLB	*Schizachyrium scoparium*	Little Bluestem			302	587		#3	CONT	889
	PDS	*Sporobolus heterolepis*	Prairie Dropseed					368	#3	CONT	368
	PERENNIALS										
	SHA	*Symphyotrichum ericoides*	Heath Aster					501	#1	CONT	501
	CTC	*Coreopsis verticillata*	Threadleaf Coreopsis			58	70	580	#1	CONT	708
	PWP	*Phlox divaricata*	Woodland Phlox			237	312	1025	#1	CONT	1574
	BES	*Rudbeckia fulgida*	Black-Eyed Susan			373	194		#1	CONT	567
	SOD		Turf Sod	633	854	794	218		SY		2499

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DATE

DATE PREPARED
02/05/2020

ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 15

COUNTY
ST. LOUIS

JOB NO.
J6S1718B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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PDS Planning Design Studio
727 North First Street Suite 360
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P 314.241.3600 F 314.241.3601

LANDSCAPE PLANS
SUMMARY OF QUANTITIES

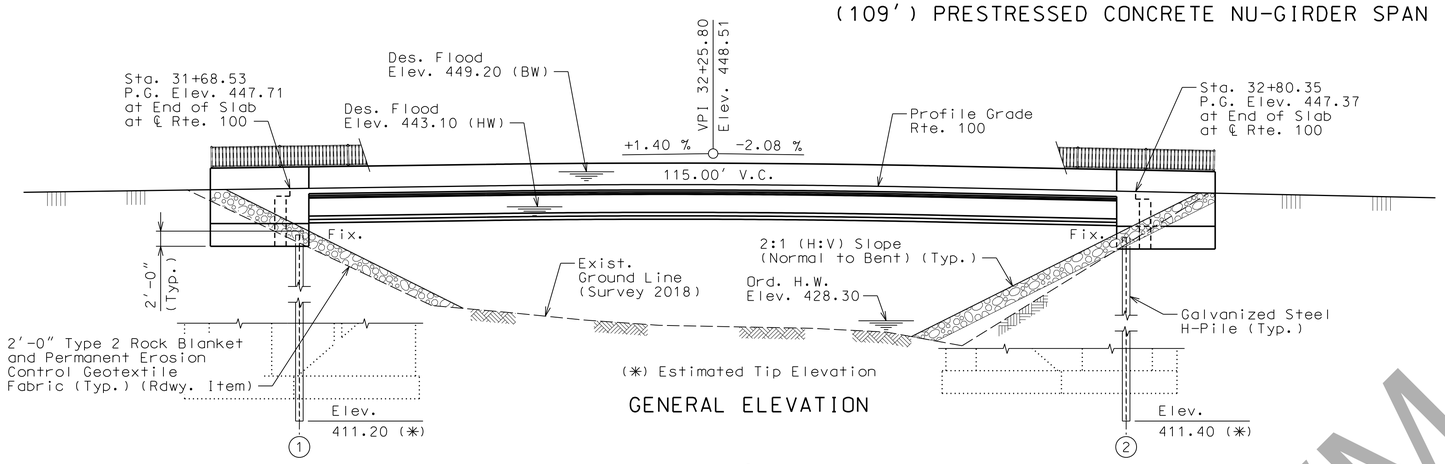
SHEET 15 OF 15

REV.

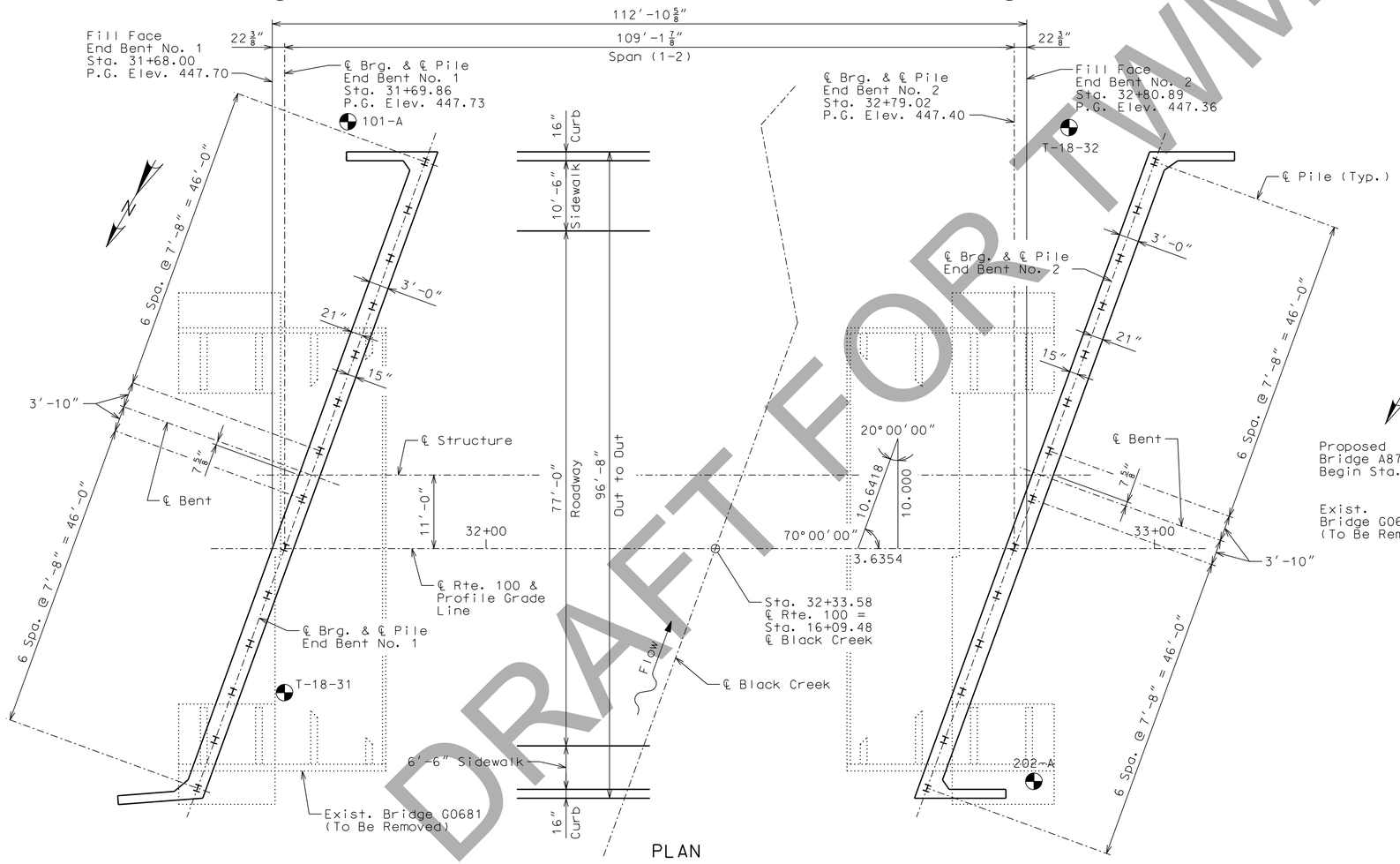
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

(109') PRESTRESSED CONCRETE NU-GIRDER SPAN

SEC/SUR 1930 TWP 45N RGE 6E



GENERAL ELEVATION



PLAN

GENERAL ELEVATION AND PLAN

Notes:

All dimensions are horizontal.

All Bents are parallel.

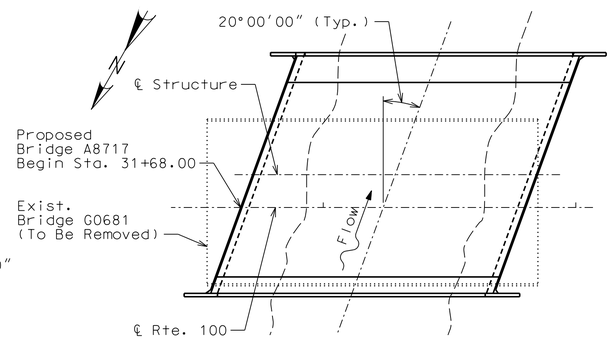
"⊕" Indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheets No. 31 thru 33 and may be included in the Electronic Bridge Deliverables. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Hydrologic Data
Drainage Area = 8.52 mi²
Design Flood Frequency = 50 years
Design Flood Discharge = 6,754 cfs
Design Flood (D.F.) Elevation = 443.10 (HW)
Design Flood (D.F.) Elevation = 449.20 (BW)
Base Flood (100-year) (HW)
Base Flood Elevation = 443.10
Base Flood Discharge = 6,949 cfs
Estimated Backwater = 0.60 ft
Average Velocity thru Opening = 6.80 ft/s
Freeboard (50-year)
Freeboard = None (HW and BW)
Roadway Overtopping (HW)
Overtopping Flood Discharge = NA
Overtopping Flood Frequency = NA
Flood Elevation = 447.80



LOCATION SKETCH

B.M. 1 ELEV. 449.13
CHISELED SQ
STA. 31+67. OFFSET 78' RT.

CP #841 ELEV. 449.13
CUT "X"
STA. 33+60.27. OFFSET 36.47' RT.

BRIDGE: ROUTE 100 OVER BLACK CREEK

RTE. 100 FROM RTE. I-270 TO ST. LOUIS CITY LIMIT

ABOUT 1.5 MILES S.W. OF ST. LOUIS CITY LIMIT

BEGINNING STA. 31+68.00

STD. 609.00
STD. 706.35

DATE PREPARED 1/9/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

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ESTIMATED QUANTITIES

	Item	Unit	Substr.	Superstr.	Total
	Class 1 Excavation	Cu. Yd.	114		114
	Removal of Bridges (G0681)	Lump Sum			1
	Bridge Approach Slab (Major Road)	Sq. Yd.		346	346
	Ornamental Pedestrian Fence	Lin. Ft.		261	261
	Galvanized Structural Steel Piles (12 in.)	Lin. Ft.	826		826
	Dynamic Pile Testing	Each	2		2
	Pile Point Reinforcement	Each	28		28
	Class B Concrete (Substructure)	Cu. Yd.	90.8		90.8
	Slab on Concrete NU-Girder	Sq. Yd.		1201	1201
	Sidewalk (Bridges)	Sq. Ft.		1901	1901
(*)	Barrier Curb (Mod. Type D)	Lin. Ft.		266	266
	NU, 43 Prestressed Concrete NU-Girder	Lin. Ft.		1210	1210
	Conduit System on Structure	Lin. Ft.		282	282
	Steel Intermediate Diaphragm for P/S Concrete Girders	Each		6	6
	Slab Drain	Each		12	12
	Vertical Drain at End Bents	Each	2		2
	Laminated Neoprene Bearing Pad (Tapered)	Each		22	22

Cost of L4x4 ASTM A709 Grade 36 HP Pile Anchors and 3/4" diameter ASTM F3125 Grade A325 bolts, complete in place, will be considered completely covered by the contract unit price for Galvanized Structural Steel Piles (12 in.).

* Barrier Curb (Mod. Type D) shall be cast-in-place or slip-form option.

ESTIMATED QUANTITIES:

All concrete above the construction joint in the end bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

All concrete and reinforcing steel in sidewalk will be considered completely covered by the contract unit price for Sidewalk (Bridges).

ESTIMATED QUANTITIES FOR SLAB ON CONCRETE NU-GIRDER

Item		Total
Class B-2 Concrete	Cu. Yds.	354.2
Reinforcing Steel (Epoxy Coated)	Lbs.	78,720

The table of Estimated Quantities for Slab on Concrete NU-Girder represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab.) Payment for prestressed panels, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in these estimated quantities but these variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness Class SC4 and a finish Type I, II or III.

The Estimated Quantities for Slab on Concrete NU-Girder are based on skewed precast prestressed end panels.

Class B-2 Concrete quantity is based on minimum top flange thickness and minimum joint material thickness.

The Prestressed Panel quantities are not included in the Table of Estimated Quantities for Slab on Concrete NU-Girder.

GENERAL NOTES:

DESIGN SPECIFICATIONS:
2012-AASHTO LRFD Bridge Design Specifications (6th Ed.) and 2013 Interim Revisions
Seismic Performance Category = B (Seismic Details)

DESIGN LOADING:
Vehicular = HL-93
Future Wearing Surface = 35lb/sf
Earth 120lb/cf, Equivalent Fluid Pressure 45lb/cf
Superstructure: Non-composite for dead load.
Composite for live load.

DESIGN UNIT STRESSES:

Class B Concrete (Substructure)	f'c = 3,000 psi
Class B-2 Concrete (Superstructure Except Prestressed Girders and Barrier Curb (Mod. Type D))	f'c = 4,000 psi
Class B-1 Concrete (Barrier Curb (Mod. Type D)	f'c = 4,000 psi
Reinforcing Steel (Grade 60)	fy = 60,000 psi
Steel Pile (ASTM A709 Grade 50)	fy = 50,000 psi

For Precast Prestressed Panel Stresses, see Sheet No. 13.
For Prestressed Girder Stresses, see Sheets No. 11 & 12.

NEOPRENE BEARING PADS:
Laminated Neoprene Bearing Pads (Tapered) shall be 60 Durometer and shall be in accordance with Sec 716.

JOINT FILLER:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

REINFORCING STEEL:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

TRAFFIC HANDLING:
Route 100 to be closed during construction.

MISCELLANEOUS:
MoDOT Construction personnel shall indicate the type of joint filler option used under precast panels for this structure.
☐ Constant Joint filler
☐ Variable Joint Filler

FOUNDATION DATA

Type	Design Data		Bent Number 1	Bent Number 2
Load Bearing Pile	Pile Type and Size		HP12x53	HP12x53
	Number	ea	14	14
	Approximate Length per Each	ft	30	29
	Pile Point Reinforcement	ea	All	All
	Minimum Galvanized Penetration (Elev.)	ft	Full Length	Full Length
	Minimum Tip Penetration (Elev.)	ft	-	-
	Criteria for Minimum Tip Penetration		**	**
	Pile Driving Verification Method		DT	DT
	Resistance Factor		0.65	0.65
	Minimum Nominal Axial Compressive Resistance	kip	425	425

DT = Dynamic Testing

Load Bearing Pile:
Minimum Nominal Axial Compressive Resistance = Maximum Factored Loads/Resistance Factor

** Piling is anticipated to be driven to and refuse on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in Sec 702.

All piles shall be galvanized down to the Minimum Galvanized Penetration (Elevation).

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

The contractor shall make every effort to achieve the Minimum Galvanized Penetration (Elevation) shown on the plans for all piles. Deviations in penetration less than 5 feet of the minimum will be considered acceptable provided the contractor makes the necessary corrections to ensure the minimum penetration is achieved on subsequent piles.

Pile Driving Analyzer (PDA) is required for this project. The PDA monitoring shall be performed by the contractor on a minimum of one driven pile at each bent. Piles shall be driven to achieve the Minimum Nominal Axial Pile Compressive Resistance specified in the table above, as verified by PDA testing to be performed on the initial pile installations. Re-strikes are not required. See Special Provisions for PDA testing requirements.

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GENERAL NOTES AND SUMMARY OF ESTIMATED QUANTITIES

Detailed December 2019
Checked December 2019

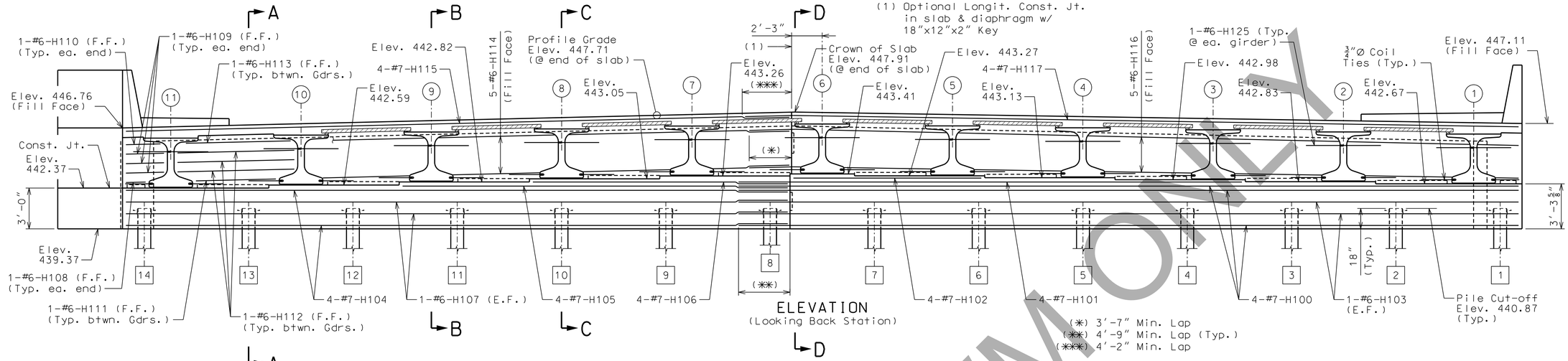
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DATE PREPARED 1/7/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 2
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

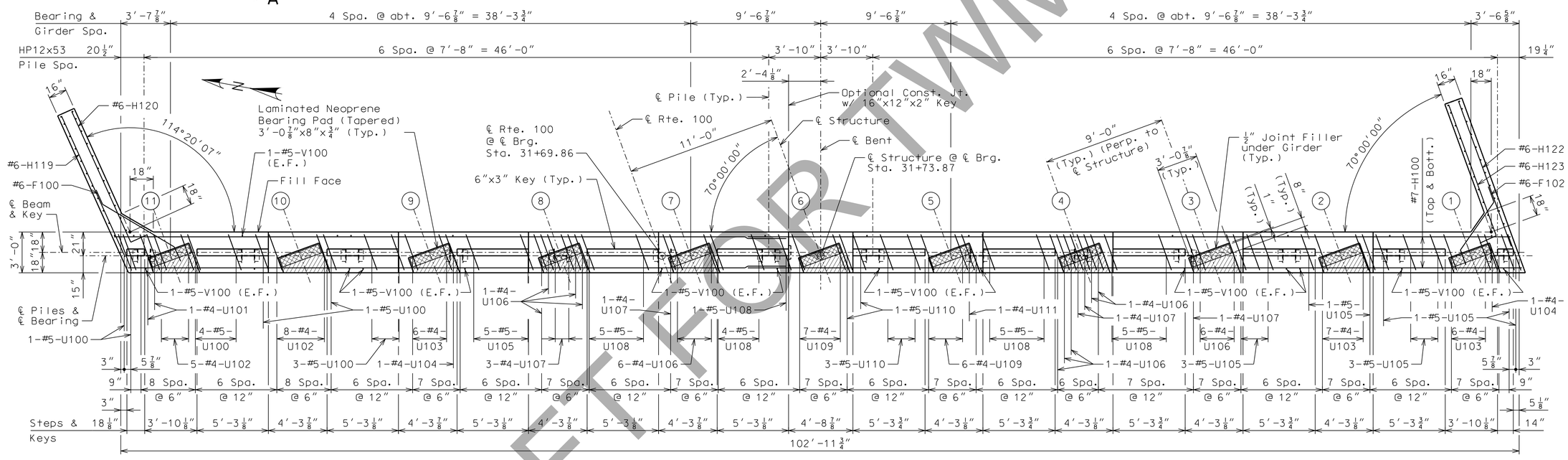
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401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



ELEVATION
(Looking Back Station)

(*) 3'-7" Min. Lap
(**) 4'-9" Min. Lap (Typ.)
(***) 4'-2" Min. Lap



PLAN OF BEAM
(Horizontal dimensions are measured along ℄ Piles and ℄ Brg.)

SUBSTRUCTURE QUANTITY TABLE FOR END BENT NO. 1

ITEM		QUANTITY
Class 1 Excavation	Cu. Yd.	50
Galvanized Structural Steel Pile (12 in.)	Lin. Ft.	420
Dynamic Pile Testing	Each	1
Pile Point Reinforcement	Each	14
Class B Concrete (Substructure)	Cu. Yd.	44.2

These quantities are included in the Estimated Quantities on Sheet No. 2.

Notes:

For Sections A-A thru D-D, see Sheet No. 4.

For Key details, Bearing detail, and Steel Pile Splice detail, see Sheet No. 5.

Reinforcing Steel shall be shifted to clear piles. U-bars shall clear piles by at least 1 1/2".

The U-bars, Pairs V-bars and #5-H118 bars shall be placed parallel to centerline of roadway.

The #6-F100 and #6-F102 bars shall be bent in the field to clear girders.

Strands at ends of girders shall be field bent or, if necessary, cut in field to maintain 1 1/2" minimum clearance to Fill Face of End Bent.

All concrete in the end bent above top of beam and below top of slab shall be Class B-2.

(1) - Denotes girder number.

[1] - Denotes pile number.

E.F. Denotes Each Face.

F.F. Denotes Front Face.

END BENT NO. 1 DETAILS

Detailed December 2019
Checked December 2019

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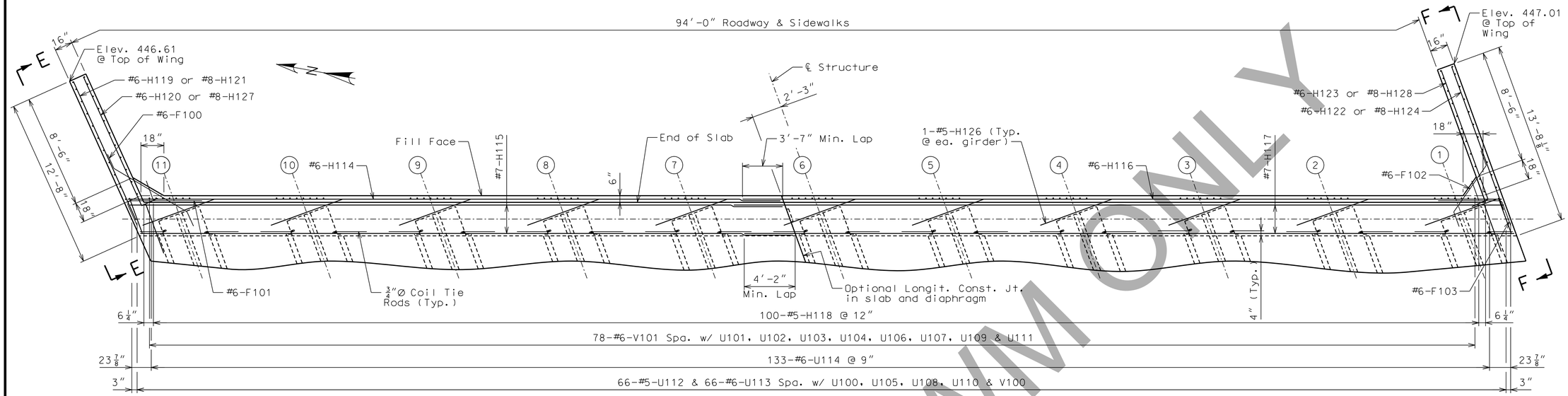
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DATE PREPARED 1/7/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

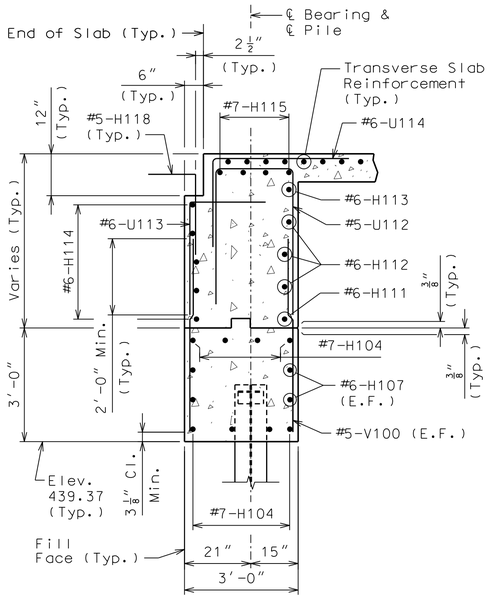
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314-425-8300
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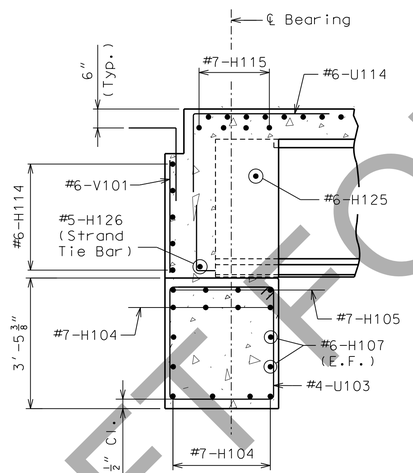


PLAN

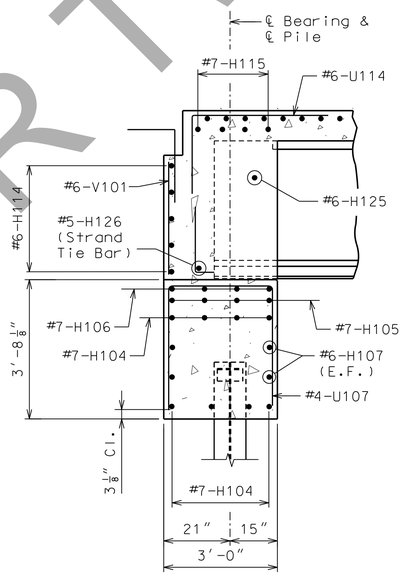
(Horizontal dimensions are measured along ℄ Brg.)



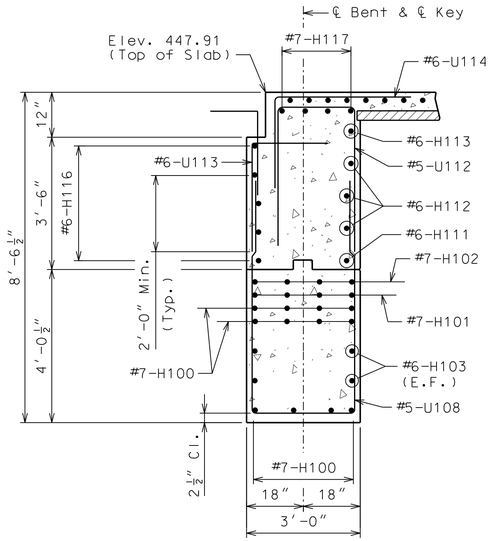
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

(At Crown of Roadway)

Notes:

#6-F100 and #6-F102 bars shall be bent in the field to clear girders.

The U-bars, pairs of V-bars and #5-H118 bars shall be placed parallel to centerline of roadway.

For location of Sections A-A, B-B, C-C & D-D, see Sheet No. 3.

For Elevations E-E & F-F, see Sheet No. 5.

Notes (Cont.):

For Pile Splice Details, see Sheet No. 5.

For details and reinforcement of Barrier Curbs at End Bent, see Sheets No. 20 & 21.

E.F. Denotes Each Face.

(1) - Denotes girder number.

END BENT NO. 1 DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 33

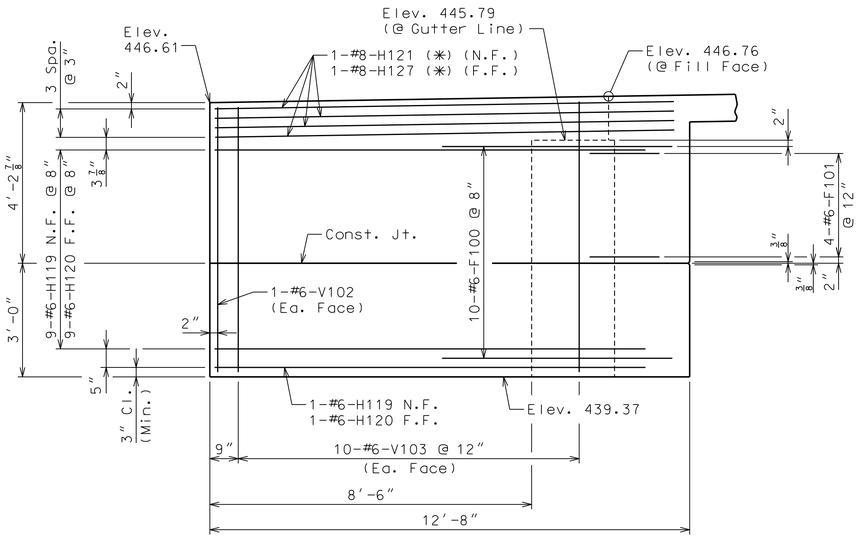
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DATE PREPARED	1/2/2020
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	4
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8717

DESCRIPTION | DATE

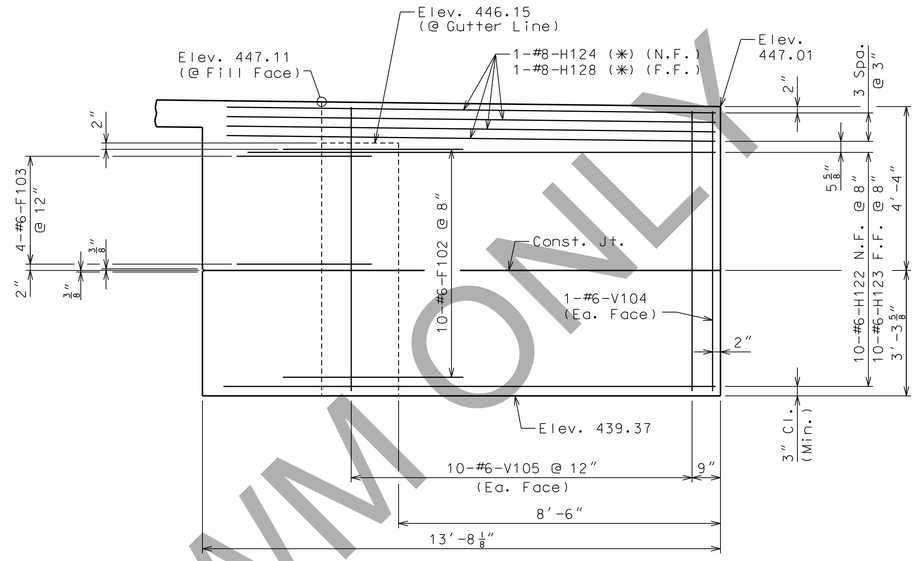
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ELEVATION E-E

(*) Place with grade

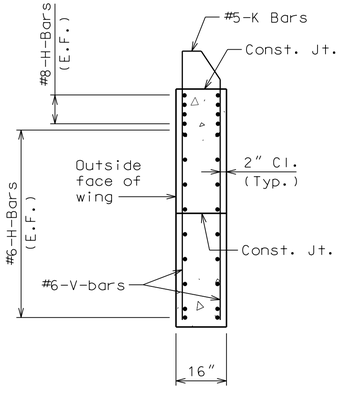


ELEVATION F-F

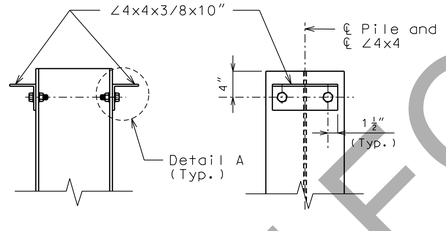
(*) Place with grade

Note: All dimensions and elevations given at outside face of wing.

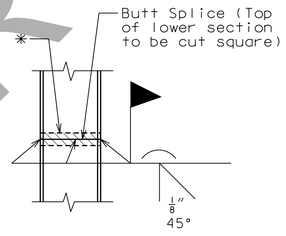
The #6-F100 and #6-F102 bars shall be bent in the field to clear girders.



PART SECTION
THRU LEFT OR
RIGHT WING



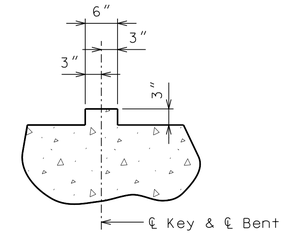
DETAILS OF HP PILE ANCHORS



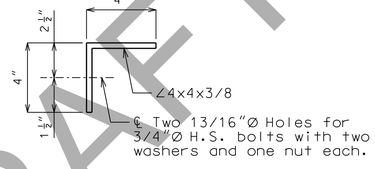
STEEL PILE SPLICE

(If required)

* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



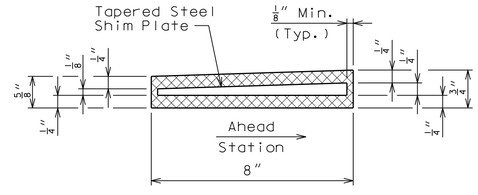
TYPICAL SECTION
THRU KEY



DETAIL A

Galvanizing ∠4x4, 3/4" diameter high strength bolts, washers and nuts will not be required.

Cost of L4x4 ASTM A709 Grade 36 HP Pile Anchors and 3/4" diameter ASTM F3125 Grade A325 bolts, complete in place, will be considered completely covered by the contract unit price for Galvanized Structural Steel Piles (12 in.)



LAMINATED NEOPRENE BEARING PAD
(TAPERED)

Notes:

For location of Elevations E-E & F-F, see Sheet No. 4.

For details and reinforcement of Barrier Curbs at End Bent, see Sheets No. 20 & 21.

E.F. Denotes Each Face.

N.F. Denotes Near Face.

F.F. Denotes Far Face.

END BENT NO. 1 DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

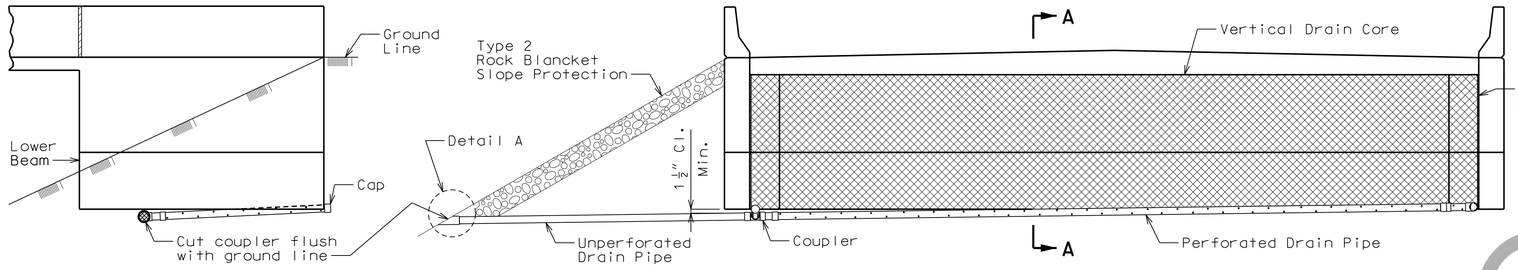
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DATE PREPARED 12/19/2019
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 5
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DATE	DESCRIPTION

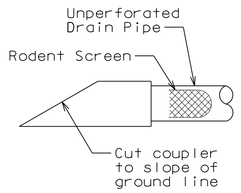
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

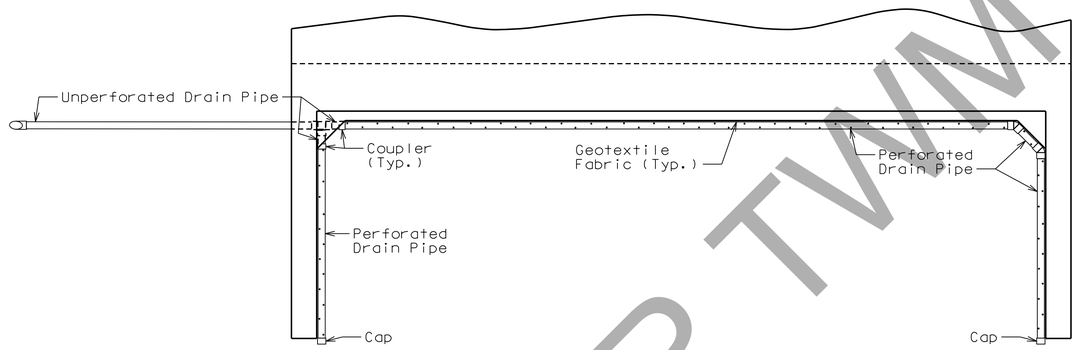


ELEVATION OF WING

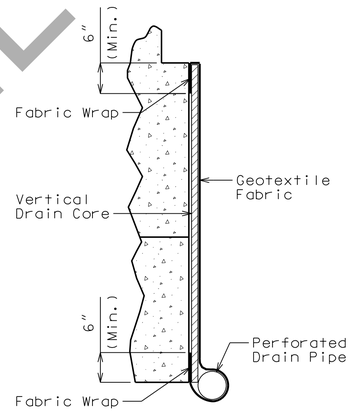
ELEVATION OF END BENT



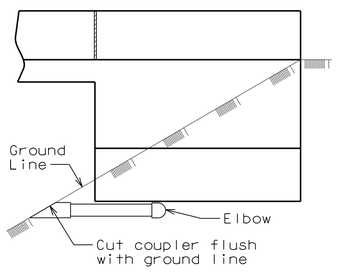
DETAIL A



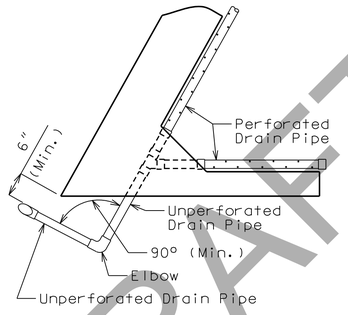
PLAN OF END BENT



PART SECTION A-A
(Section thru wing similar)



ELEVATION OF WING



PART PLAN

OPTIONAL TURNED DRAIN
(Only if rock is encountered outside of wing)

General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.

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VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)

Detailed November 2019
Checked November 2019

Note: This drawing is not to scale. Follow dimensions.

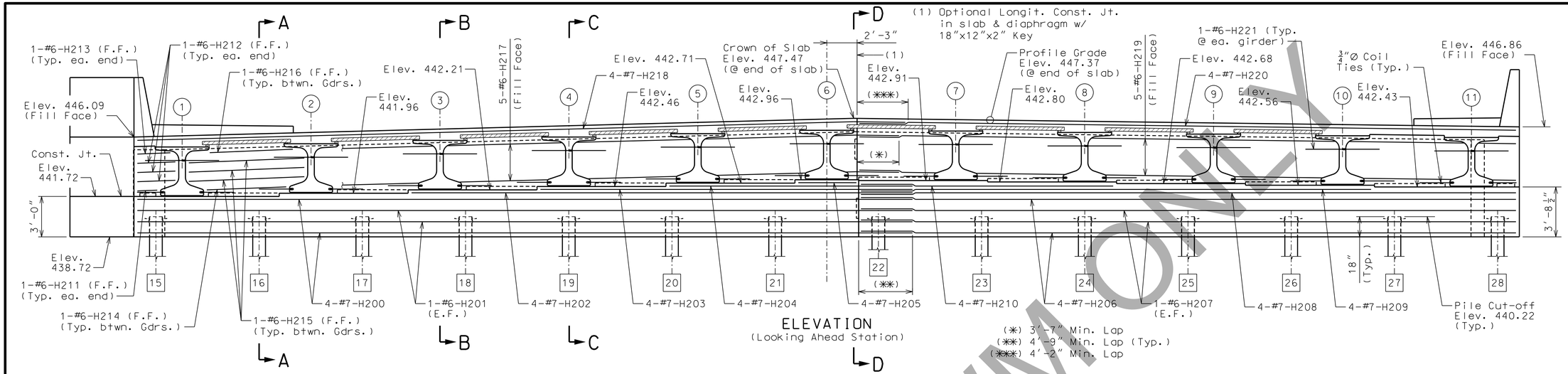
Sheet No. 6 of xx

DATE PREPARED 11/8/2019
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 6
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

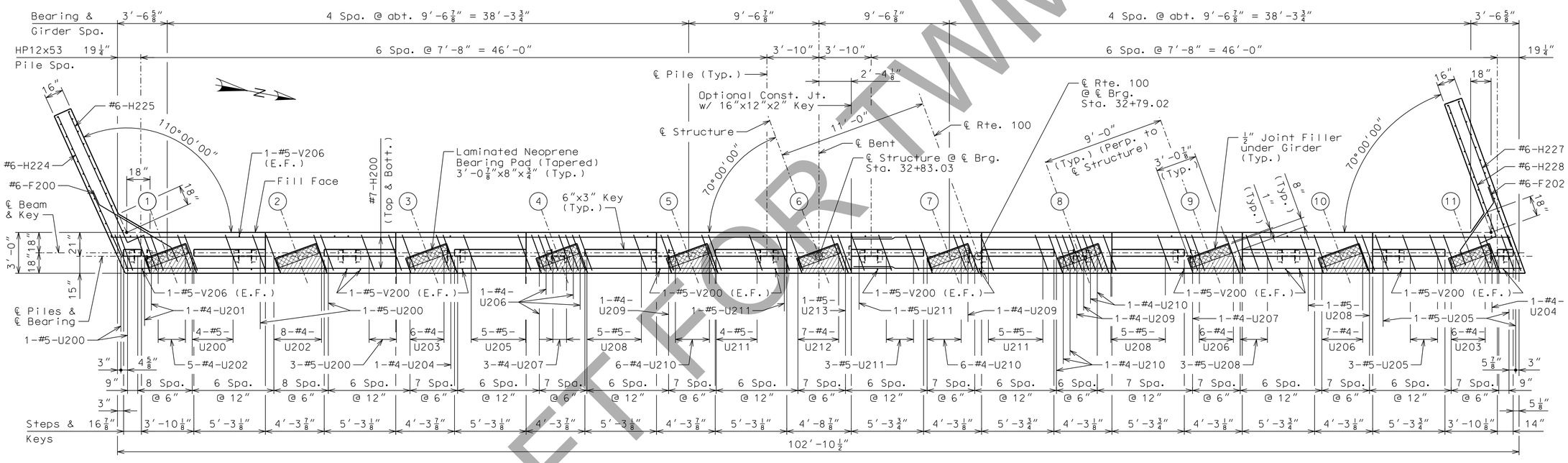
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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401 S. 18th Street
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St. Louis, MO 63103-2267
314-425-8300
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ELEVATION
(Looking Ahead Station)



PLAN OF BEAM
(Horizontal dimensions are measured along ℄ Piles and ℄ Brg.)

SUBSTRUCTURE QUANTITY TABLE FOR END BENT NO. 2

ITEM		QUANTITY
Class 1 Excavation	Cu. Yd.	64
Galvanized Structural Steel Pile (12 in.)	Lin. Ft.	406
Dynamic Pile Testing	Each	1
Pile Point Reinforcement	Each	14
Class B Concrete (Substructure)	Cu. Yd.	46.6

These quantities are included in the Estimated Quantities on Sheet No. 2.

Notes:

For Sections A-A thru D-D, see Sheet No. 8.

For Key details, Bearing detail, and Steel Pile Splice detail, see Sheet No. 9.

Reinforcing Steel shall be shifted to clear piles. U-bars shall clear piles by at least 1 1/2".

The U-bars, Pairs V-bars and #5-H222 bars shall be placed parallel to centerline of roadway.

The #6-F200 and #6-F202 bars shall be bent in the field to clear girders.

Strands at ends of girders shall be field bent or, if necessary, cut in field to maintain 1 1/2" minimum clearance to Fill Face of End Bent.

All concrete in the end bent above top of beam and below top of slab shall be Class B-2.

(1) - Denotes girder number.

[1] - Denotes pile number.

E.F. Denotes Each Face.

F.F. Denotes Front Face.

END BENT NO. 2 DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

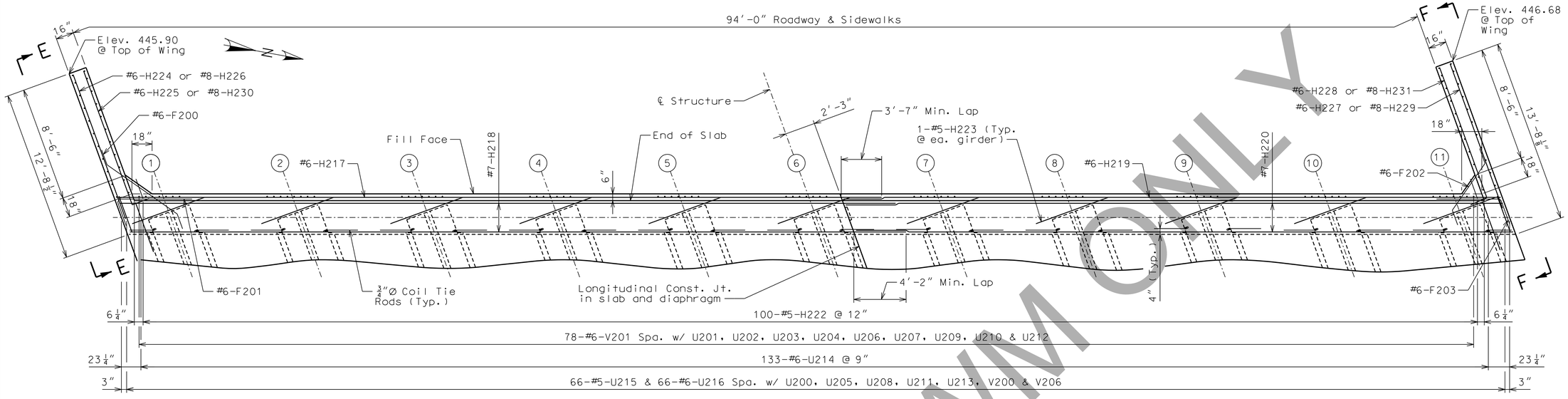
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DATE PREPARED 1/7/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 7
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

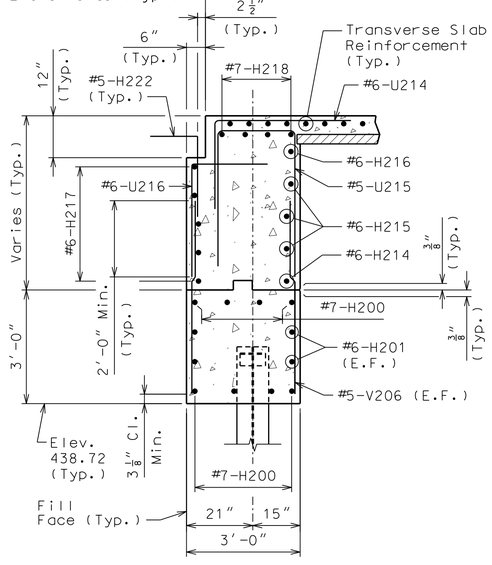
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
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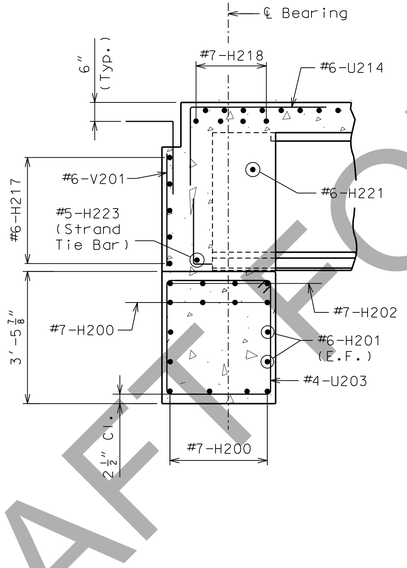


PLAN

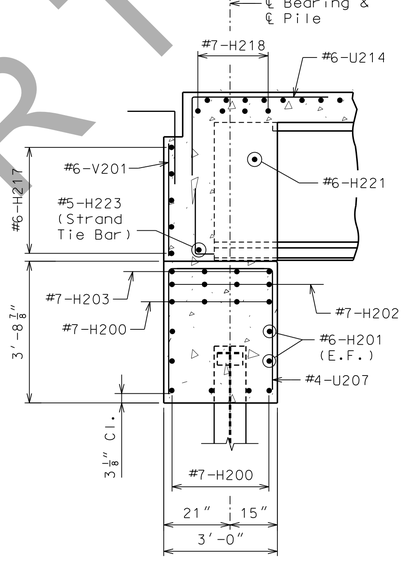
(Horizontal dimensions are measured along ℄ Brg.)



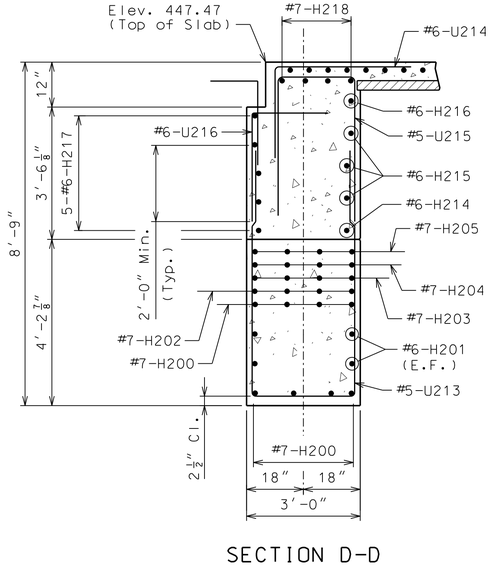
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

(At Crown of Roadway)

Notes:

#6-F200 and #6-F202 bars shall be bent in the field to clear girders.

The U-bars, pairs of V-bars and #5-H222 bars shall be placed parallel to centerline of roadway.

For location of Sections A-A, B-B, C-C & D-D, see Sheet No. 7.

For Elevations E-E & F-F, see Sheet No. 9.

Notes (Cont.):

For Pile Splice Details, see Sheet No. 9.

For details and reinforcement of Barrier Curbs at End Bent, see Sheets No. 20 & 21.

E.F. Denotes Each Face.

① - Denotes girder number.

END BENT NO. 2 DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

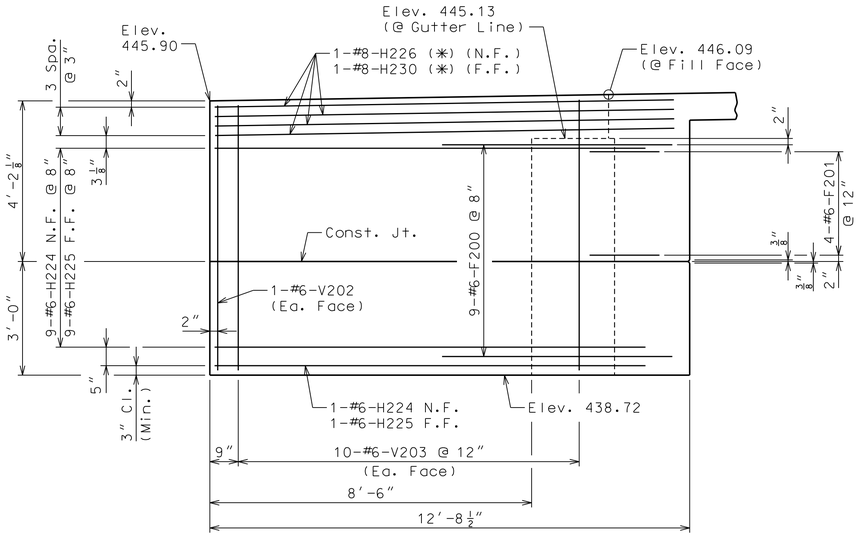
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DATE PREPARED	1/2/2020
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	8
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8717

DESCRIPTION | DATE

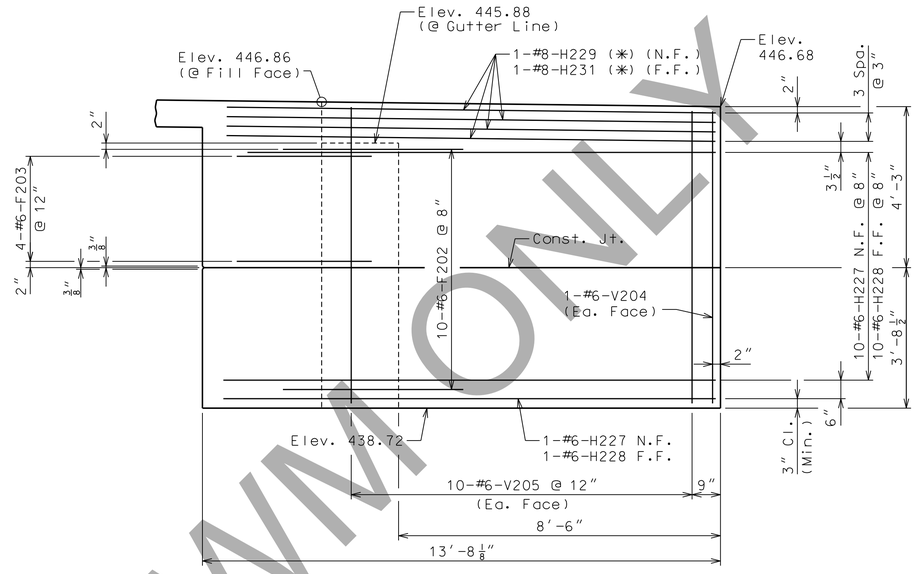
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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401 S. 18th Street
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ELEVATION E-E

(*) Place with grade

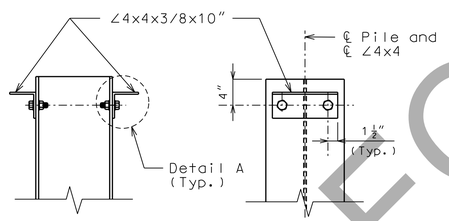


ELEVATION F-F

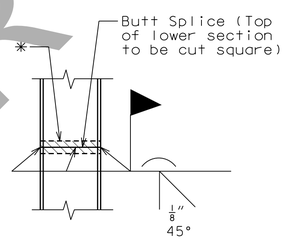
(*) Place with grade

Note: All dimensions and elevations given at outside face of wing.

The #6-F200 and #6-F202 bars shall be bent in the field to clear girders.



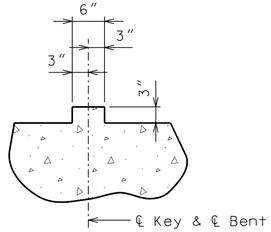
DETAILS OF HP PILE ANCHORS



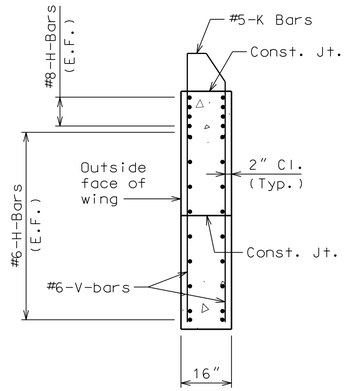
STEEL PILE SPLICE

(If required)

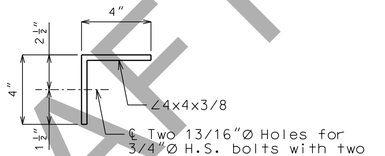
* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



TYPICAL SECTION THRU KEY



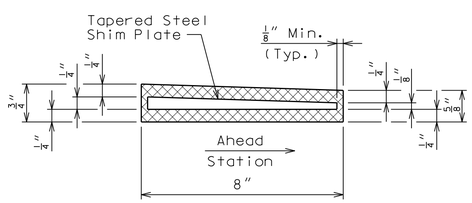
PART SECTION THRU LEFT OR RIGHT WING



DETAIL A

Galvanizing ∠4x4, 3/4" diameter high strength bolts, washers and nuts will not be required.

Cost of L4x4 ASTM A709 Grade 36 HP Pile Anchors and 3/4" diameter ASTM F3125 Grade A325 bolts, complete in place, will be considered completely covered by the contract unit price for Galvanized Structural Steel Piles (12 in.)



LAMINATED NEOPRENE BEARING PAD (TAPERED)

Notes:

For location of Elevations E-E & F-F, see Sheet No. 8.

For details and reinforcement of Barrier Curbs at End Bent, see Sheets No. 20 & 21.

E.F. Denotes Each Face.

N.F. Denotes Near Face.

F.F. Denotes Far Face.

END BENT NO. 2 DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

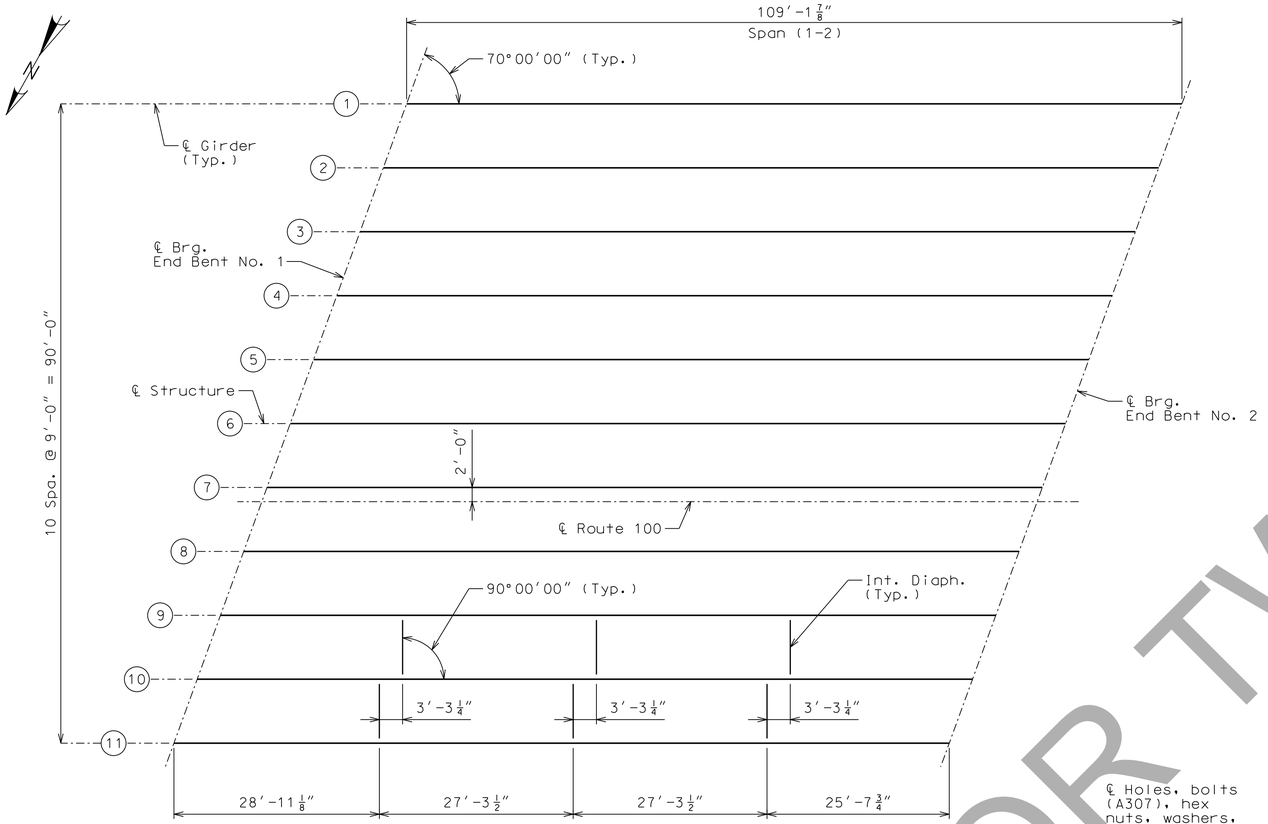
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DATE PREPARED 12/19/2019
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 9
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

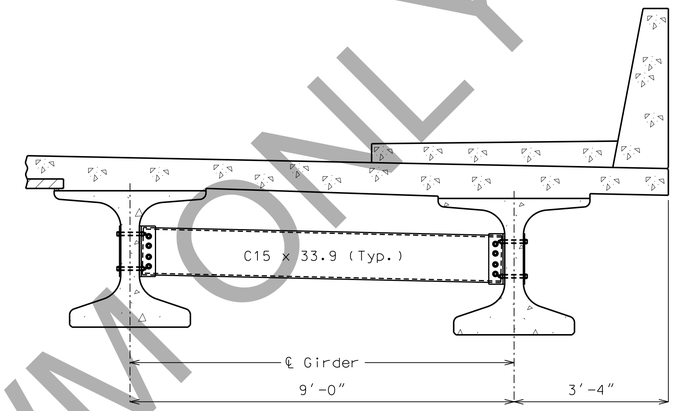
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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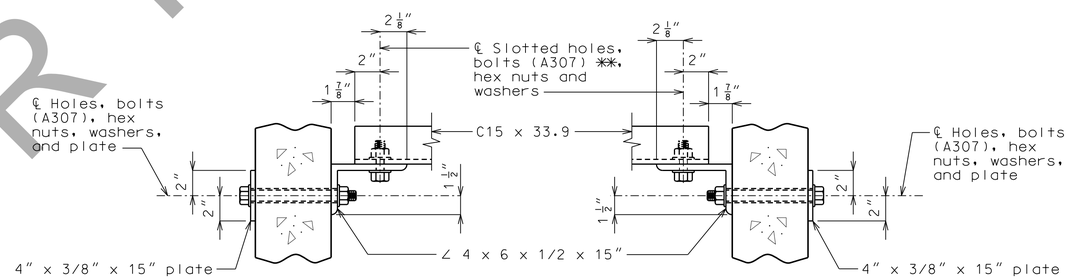


PLAN SHOWING LOCATION OF STEEL INTERMEDIATE DIAPHRAGMS

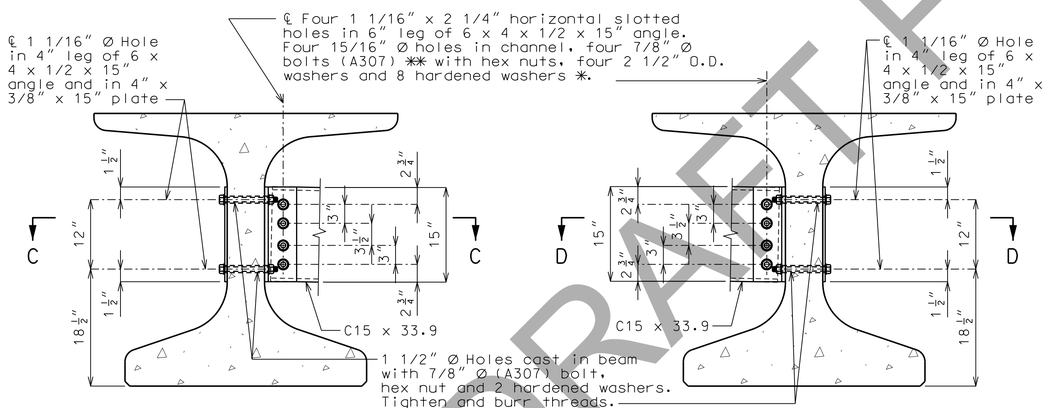
(Longitudinal dimensions are horizontal)



PART SECTION SHOWING
INTERMEDIATE DIAPHRAGMS



SECTION C-C SECTION D-D



SECTION THRU INT. GIRDER AT DIAPHRAGM

SECTION THRU EXT.GIRDER AT DIAPHRAGM

STEEL DIAPHRAGM NOTES:

* In lieu of 2 1/2″ outside diameter washers, contractor may substitute a 3/16″ (Min. thickness) plate with four 15/16″ Ø holes and one hardened washer per bolt.

** Bolts shall be tightened to provide a tension of one-half that specified in Sec 712 for high strength bolt installation. A325 bolts may be substituted for and installed in accordance with the requirements for the specified A307 bolts.

All diaphragm materials including bolts, nuts, and washers shall be galvanized.

Fabricated structural steel shall be ASTM A709 Grade 36 except as noted.

Payment for furnishing and installing steel intermediate diaphragms will be considered completely covered by the contract unit price for Steel Intermediate Diaphragm for P/S Concrete Girders.

Shop drawings will not be required for steel intermediate diaphragms and angle connections.

STEEL INTERMEDIATE DIAPHRAGM DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 10 of 33

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DATE PREPARED 12/18/2019
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 10
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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Concrete for prestressed girders shall be Class A-1 with f'c = 10,000 psi and f'ci = 8500 psi.

(+) indicates prestressing strand.

Use 50 strands with an initial prestress force of 2197.1 kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 0.6 inch diameter in accordance with AASHTO M 203, Grade 270. Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

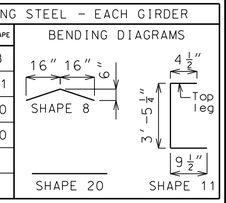
* Girder top flange shall be steel troweled to a smooth finish for 8" at the edges, as shown. Apply two layers of 30-lb roofing felt as a bond breaker to this region only excluding where joint filler is applied. The center portion shall be rough finished by scarifying the surface transversely with a wire brush, and no laitance shall remain on the surface.

** At the contractor's option the location for bent-up strands may be varied from that shown for fully bonded strands only. The total number of bent-up strands shall not be changed. One strand tie bar is required for each layer of bent-up strands except at end bents which require one bar on the bottom layer of strands only. No additional payment will be made if additional strand tie bars are required.

BILL OF REINFORCING STEEL - EACH GIRDER

NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE
132	3 G1	2'-10"	8
16	6 G2	4'-4"	11
2	4 G3	4'-1"	20
4	4 G6	Varies	20

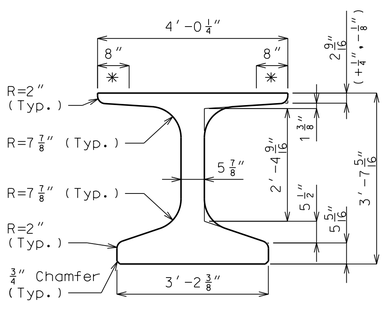
BENDING DIAGRAMS



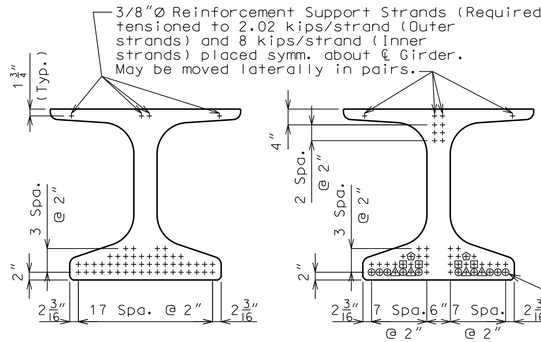
WELDED WIRE REINFORCEMENT
(WWR4 & WWR5 as shown in Welded Wire Bending Diagrams)

WWR1				WWR2				WWR3		
BAR SIZE	S1	L1	J1	BAR SIZE	S2	L2	J2	BAR SIZE	S3	L3
D20	4"	3'-0"	8"	D20	8"	18'-0"	7"	D20	12"	63'-0"

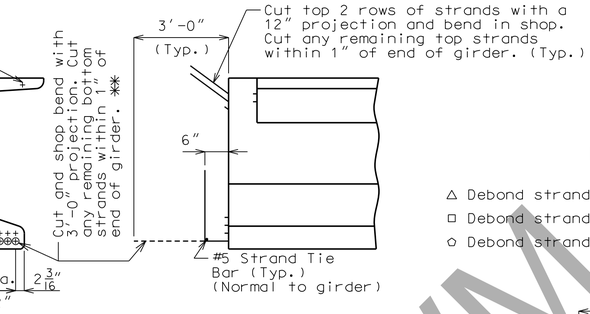
DIMENSIONS



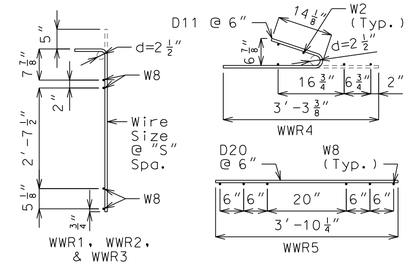
STRAND ARRANGEMENTS



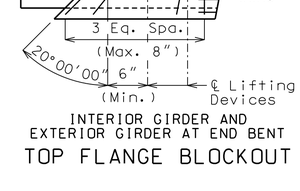
STRAND DETAILS AT GIRDER ENDS



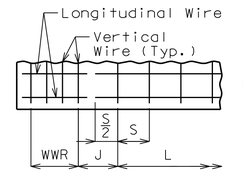
△ Debond strands at ends (6'-0")
□ Debond strands at ends (4'-0")
○ Debond strands at ends (2'-0")



WELDED WIRE BENDING DIAGRAMS



INTERIOR GIRDER AND EXTERIOR GIRDER AT END BENT
TOP FLANGE BLOCKOUT

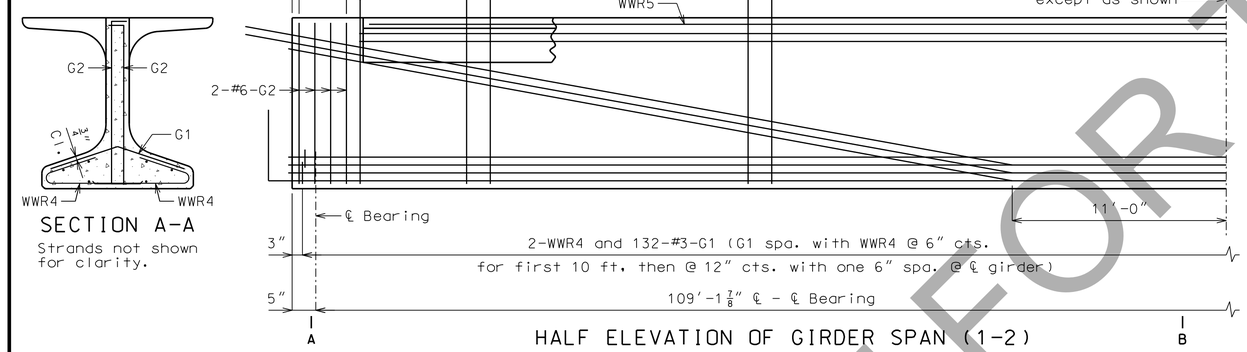


S = Vertical wire spacing

L = Length of WWR mats

J = Distance between WWR mats

WELDED WIRE PLACEMENT



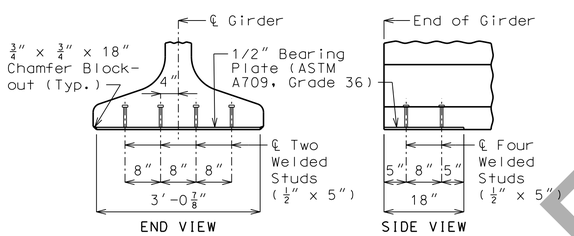
SECTION A-A
Strands not shown for clarity.

SECTION B-B
Strands not shown for clarity.

HALF ELEVATION OF GIRDER SPAN (1-2)

All girders are the same except for coil inserts for slab drains at Girder No. 10.

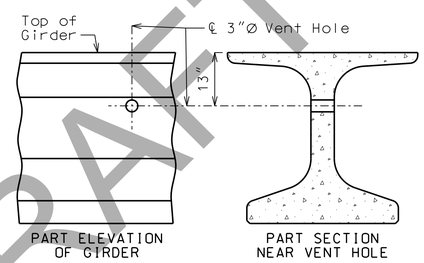
Reinforcement support strands not shown for clarity.



BEARING PLATE DETAILS

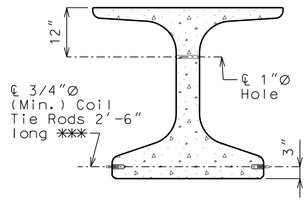
Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.

Cost of furnishing, galvanizing, and installing the 1/2" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.



DETAILS OF VENT HOLE

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1 1/2" minimum and steel interm. diaphragm bolt connections by 6" minimum.



INTERIOR GIRDER AND EXTERIOR GIRDER AT END BENTS

DETAILS OF COIL TIES

Cast 1"Ø hole horizontally in girder for #6 bar 5'-6" long and clear reinforcing steel or strands by 1 1/2" minimum.

*** Length of coil tie rods at exterior face of exterior girders at end bents = 21".

GIRDER DETAILS

General Notes:

Reinforcing Steel:

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1", unless otherwise shown.

All bar reinforcement shall be Grade 60.

Welded Wire Reinforcement (WWR) shall be in accordance with AASHTO M 221. WWR shall not be epoxy coated.

Miscellaneous:

Cost of 3/4"Ø coil tie rods placed in diaphragms will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.

Coil ties shall be held in place in the forms by slotted wire-setting-studs projecting thru forms. Studs are to be left in place or replaced with temporary plugs until girders are erected, then replaced by coil tie rods.

The contractor shall provide bracing necessary, for Girder bays 1-2 thru 8-9, for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.

For location of coil inserts at slab drains, see Sheet No. 14.

For location of coil ties and #6 bars at concrete bent diaphragms, see Sheets No. 3, 4, 7 and 8.

The 1 1/2"Ø holes shall be cast in the web for steel intermediate diaphragms in Girders 9, 10 & 11. Drilling is not allowed. For location of holes and details of steel intermediate diaphragms, see Sheet No. 10.

For Girder Camber Diagram, see Sheet No. 15.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

DRAFT FOR TWM ONLY

DATE PREPARED 1/2/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	11

COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8717

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

c:\pwworking\central01\d1156121\B_A8717_011_J6S1718.dgn 9:21:26 AM 1/2/2020

Concrete for prestressed girders shall be Class A-1 with f'c = 10,000 psi and f'ci = 8500 psi.

(+) indicates prestressing strand.

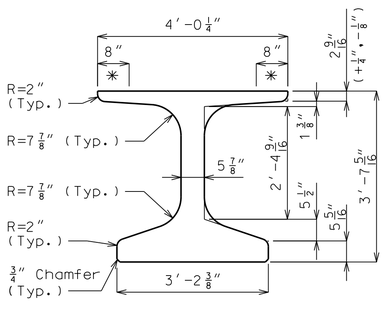
Use 50 strands with an initial prestress force of 2197.1 kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 0.6 inch diameter in accordance with AASHTO M 203, Grade 270. Pretensioned members shall be in accordance with Sec 1029.

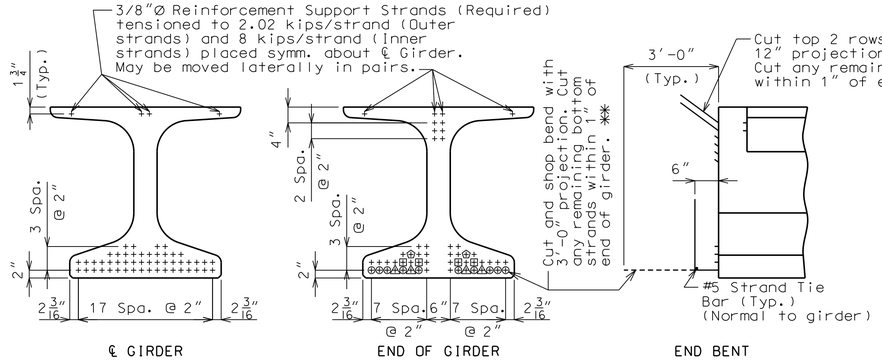
Fabricator shall be responsible for location and design of lifting devices.

✳ Girder top flange shall be steel troweled to a smooth finish for 8" at the edges, as shown. Apply two layers of 30-lb roofing felt as a bond breaker to this region only excluding where joint filler is applied. The center portion shall be rough finished by scarifying the surface transversely with a wire brush, and no laitance shall remain on the surface.

✳✳ At the contractor's option the location for bent-up strands may be varied from that shown for fully bonded strands only. The total number of bent-up strands shall not be changed. One strand tie bar is required for each layer of bent-up strands except at end bents which require one bar on the bottom layer of strands only. No additional payment will be made if additional strand tie bars are required.



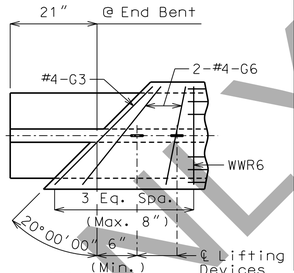
DIMENSIONS



STRAND ARRANGEMENTS

STRAND DETAILS AT GIRDER ENDS

△ Debond strands at ends (6'-0")
□ Debond strands at ends (4'-0")
⬠ Debond strands at ends (2'-0")



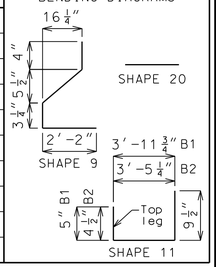
INTERIOR GIRDER AND EXTERIOR GIRDER AT END BENT

TOP FLANGE BLOCKOUT

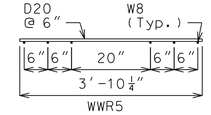
BILL OF REINFORCING STEEL - EACH GIRDER

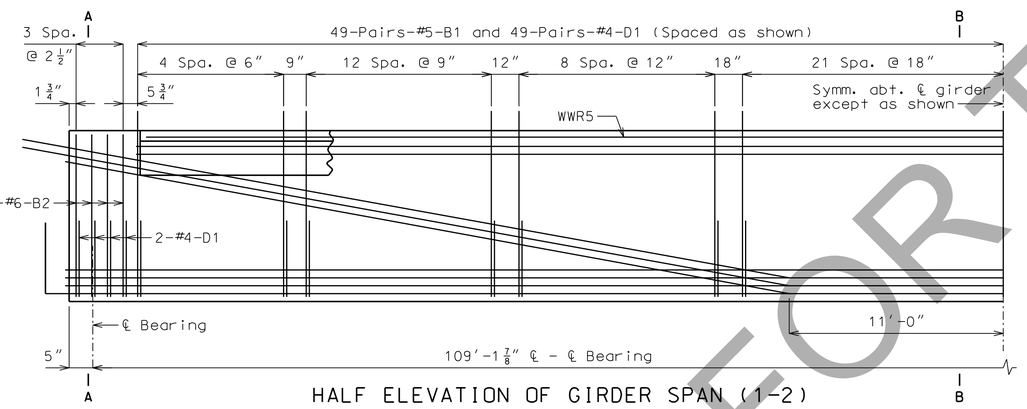
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE
194	5 B1	5'-0"	11
16	6 B2	4'-4"	11
210	4 D1	4'-0"	9
2	4 G3	4'-1"	20
4	4 G6	Varies	20

BENDING DIAGRAMS

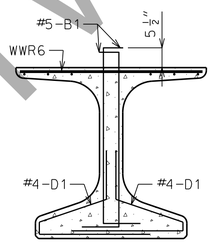


WELDED WIRE REINFORCEMENT - EACH GIRDER





SECTION A-A
Strands not shown for clarity.

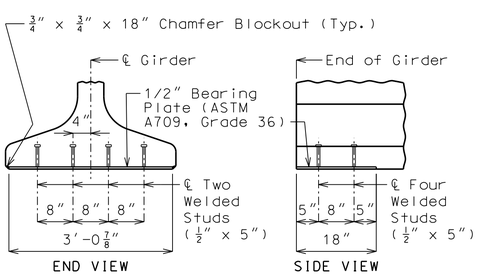


SECTION B-B
Strands not shown for clarity.

HALF ELEVATION OF GIRDER SPAN (1-2)

All girders are the same except for coil inserts for slab drains at Girder No. 10.

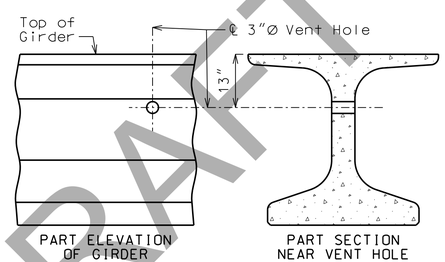
Reinforcement support strands not shown for clarity.



BEARING PLATE DETAILS

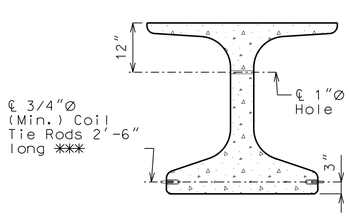
Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.

Cost of furnishing, galvanizing, and installing the 1/2" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.



DETAILS OF VENT HOLE

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1 1/2" minimum and steel interm. diaphragm bolt connections by 6" minimum.



INTERIOR GIRDER AND EXTERIOR GIRDER AT END BENTS

DETAILS OF COIL TIES

Cast 1"Ø hole horizontally in girder for #6 bar 5'-6" long and clear reinforcing steel or strands by 1 1/2" minimum.

✳✳✳ Length of coil tie rods at exterior face of exterior girders at end bents = 21".

General Notes:

Reinforcing Steel:

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1".

All bar reinforcement shall be Grade 60.

Welded Wire Reinforcement (WWR) shall be in accordance with AASHTO M 221.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

Miscellaneous:

Cost of 3/4"Ø coil tie rods placed in diaphragms will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.

Coil ties shall be held in place in the forms by slotted wire-setting-studs projecting thru forms. Studs are to be left in place or replaced with temporary plugs until girders are erected, then replaced by coil tie rods.

The contractor shall provide bracing necessary, for Girder Bays 1-2 thru 8-9, for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.

For location of coil ties and #6 bars at concrete bent diaphragms, see Sheets No. 3, 4, 7 and 8.

The 1 1/2"Ø holes shall be cast in the web for steel intermediate diaphragms in Girders 9, 10 & 11. Drilling is not allowed. For location of holes and details of steel intermediate diaphragms, see Sheet No. 10.

For Girder Camber Diagram, see Sheet No. 15.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

ALTERNATE BAR REINFORCING STEEL DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

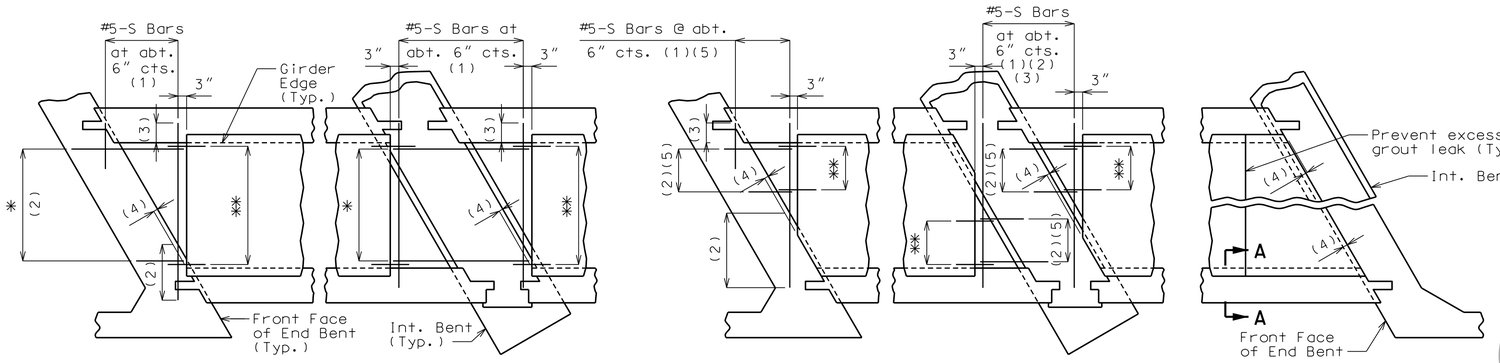
DATE PREPARED 1/2/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 12
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

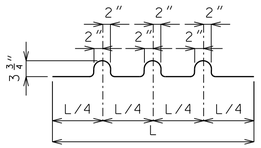
DRAFT FOR TWM ONLY



SQUARED END PANELS OR TRUNCATED END PANELS

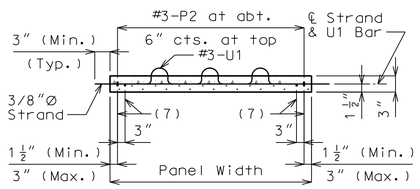
PLAN SHOWING PANELS PLACEMENT

* #5-S Bars at abt. 9" cts. (1)
** #3-P1 at 12" cts. (End panels only)

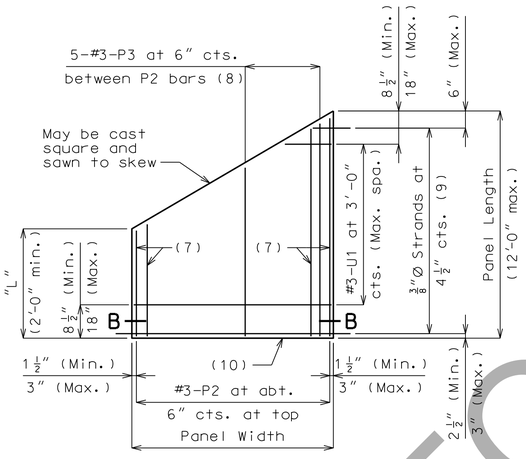


BENDING DIAGRAM FOR U1 BAR

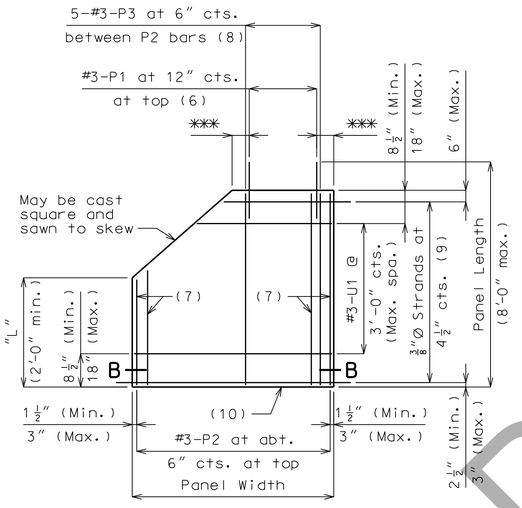
U1 Bars may be oriented at right angles to location and spacing shown. U1 Bars shall be placed between P1 bars.



SECTION B-B

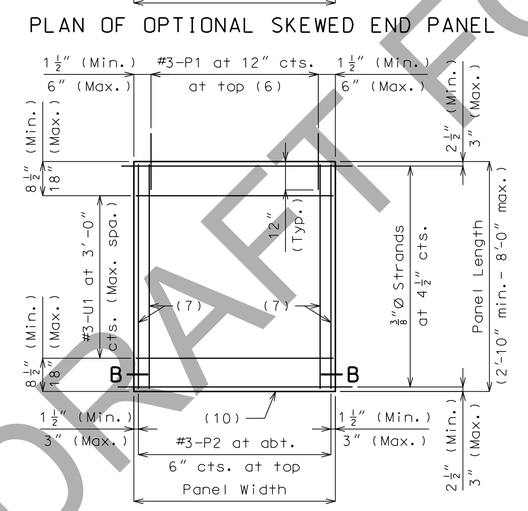


PLAN OF OPTIONAL SKEWED END PANEL



PLAN OF OPTIONAL TRUNCATED END PANEL

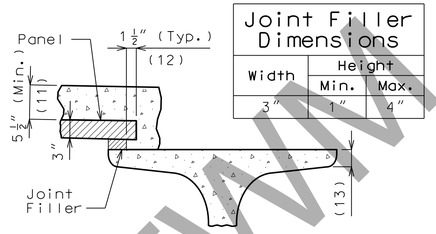
*** 3" (Min.), 6" (Max.)



PLAN OF SQUARED PANEL

SKEWED END PANELS

Joint Filler Dimensions		
Width	Height	
	Min.	Max.
3"	1"	4"



SECTION A-A

Reference Notes:

Plan of Panels Placement:

(1) S-bars shown are bottom steel in slab between panels and used with squared and truncated end panels only.

(2) Extend S-bars 18 inches beyond the front face of end bents and int. bents for squared and truncated end panels only.

(3) Extend S-bars 9 inches beyond edge of girder (Typ.).

(4) End panels shall be dimensioned 1/2" min. to 1 1/2" max. from the inside face of diaphragm.

(5) For truncated end panels, use a min. of #5-S bars at 6" crossings in openings, or min. 4x4-W7xW7.

Plans of Panels:

(6) For end panels only, P1 bars shall be 2'-0" in length and embedded 12". P1 bars will not be required for panels at squared integral end bents.

(7) #3-P2 bars near edge of panel at bottom (under strands).

(8) Use #3-P3 bars if panel is skewed 45° or greater.

(9) Any strand 2'-0" or shorter shall have a #4 reinforcing bar on each side of it, centered between strands. Strands 2'-0" or shorter may then be debonded at the fabricator's option.

(10) Optional 1/2" x 45° Chamfer one or both sides at bottom.

Section A-A:

(11) Slab thickness over prestressed panels varies due to girder camber. In order to maintain minimum slab thickness, it may be necessary to raise the grade uniformly throughout the structure. No payment will be made for additional labor or materials required for necessary grade adjustment.

(12) Contractor shall ensure proper consolidation under and between panels.

(13) At the contractor's option, the variation in slab thickness over prestressed panels may be eliminated or reduced by increasing and varying the girder top flange thickness. Dimensions shall be shown on the shop drawings.

General Notes:

Prestressed Panels:

Concrete for prestressed panels shall be Class A-1 with f'c = 6,000 psi, f'ci = 4,000 psi.

The top surface of all panels shall receive a scored finish with a depth of scoring of 1/8" perpendicular to the prestressing strands in the panels.

Prestressing tendons shall be high-tensile strength, uncoated, seven-wire, low-relaxation strands for prestressed concrete in accordance with AASHTO M 203 Grade 270, with nominal diameter of strand = 3/8" and nominal area = 0.085 sq.in. and minimum ultimate strength = 22.95 kips (270 ksi). Larger strands may be used with the same spacing and initial tension.

Initial prestressing force = 17.2 kips/strand.

The method and sequence of releasing the strands shall be shown on the shop drawings.

Suitable anchorage devices for lifting panels may be cast in panels, provided the devices are shown on the shop drawings and approved by the engineer. Panel lengths shall be determined by the contractor and shown on the shop drawings.

When squared end panels are used at skewed bents, the skewed portion shall be cast full depth. No separate payment will be made for additional concrete and reinforcing required.

Support from diaphragm forms is required under the optional skewed end until cast-in-place concrete has reached 3,000 psi compressive strength.

Prestressed panels shall be brought to saturated surface-dry (SSD) condition just prior to the deck pour. There shall be no free standing water on the panels or in the area to be cast.

The prestressed panel quantities are not included in the table of estimated quantities for the slab.

Reinforcing Steel:

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

If U1 bars interfere with placement of slab steel, U1 loops may be bent over, as necessary, to clear slab steel.

Deformed welded wire reinforcement (WWR) providing a minimum area of reinforcing perpendicular to strands of 0.22 sq in./ft, with spacing parallel to strands sufficient to ensure proper handling, may be used in lieu of the #3-P2 bars shown. Wire diameter shall not be larger than 0.375 inch. The above alternative reinforcement criteria may be used in lieu of the #3-P3 bars, when required, and placed over a width not less than 2 feet.

The following reinforcing steel shall be tied securely to the strands with the following maximum spacing in each direction:
#3-P2 bars at 16 inches.
WWR at 24 inches.

The #3-U1 bars shall be tied securely to #3-P2 bars, to WWR or to strands (when placed between P1 bars) at about 3-foot centers.

Minimum reinforcement steel length shall be 2'-0".

All reinforcement other than prestressing strands shall be epoxy coated.

Precast panels may be in contact with stirrup reinforcing in diaphragms.

S-bars are not listed in the bill of reinforcing.

Cost of S-bars will be considered completely covered by the contract unit price for the slab.

Joint Filler:

Joint filler shall be preformed fiber expansion joint material in accordance with Sec 1057 or expanded or extruded polystyrene bedding material in accordance with Sec 1073.

Use Slab Haunching Diagram on Sheet No. 15 for determining thickness of joint filler within the limits noted in the table of Joint Filler Dimensions.

Thicker material may be used on one or both sides of the girder to reduce cast-in-place concrete thickness to within tolerances.

The same thickness of preformed fiber expansion joint material shall be used under any one edge of any panel except at locations where top flange thickness may be stepped. The maximum change in thickness between adjacent panels shall be 1/4 inch. The polystyrene bedding material may be cut with a transition to match haunch height above top of flange.

Joint filler shall be glued to the girder. When thickness exceeds 1 1/2 inches, the joint filler shall be glued top and bottom. The glue used shall be the type recommended by the joint filler manufacturer.

Edges of panels shall be uniformly seated on the joint filler before slab reinforcement is placed.

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DETAILS OF PRESTRESSED PANELS

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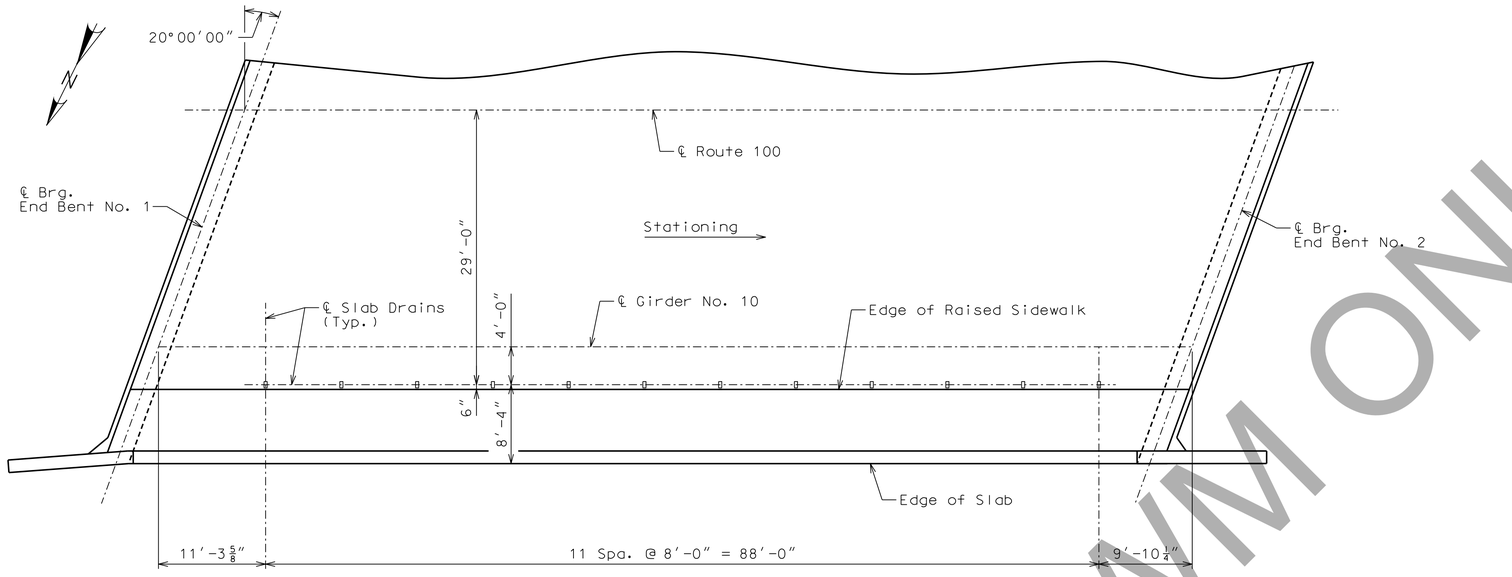
Note: This drawing is not to scale. Follow dimensions.

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COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

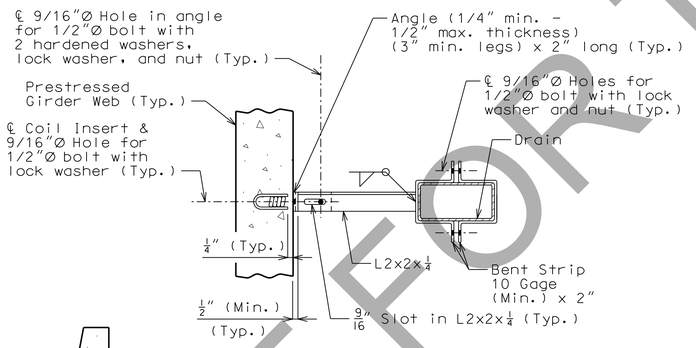
DESCRIPTION | DATE

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JEFFERSON CITY, MO 65102
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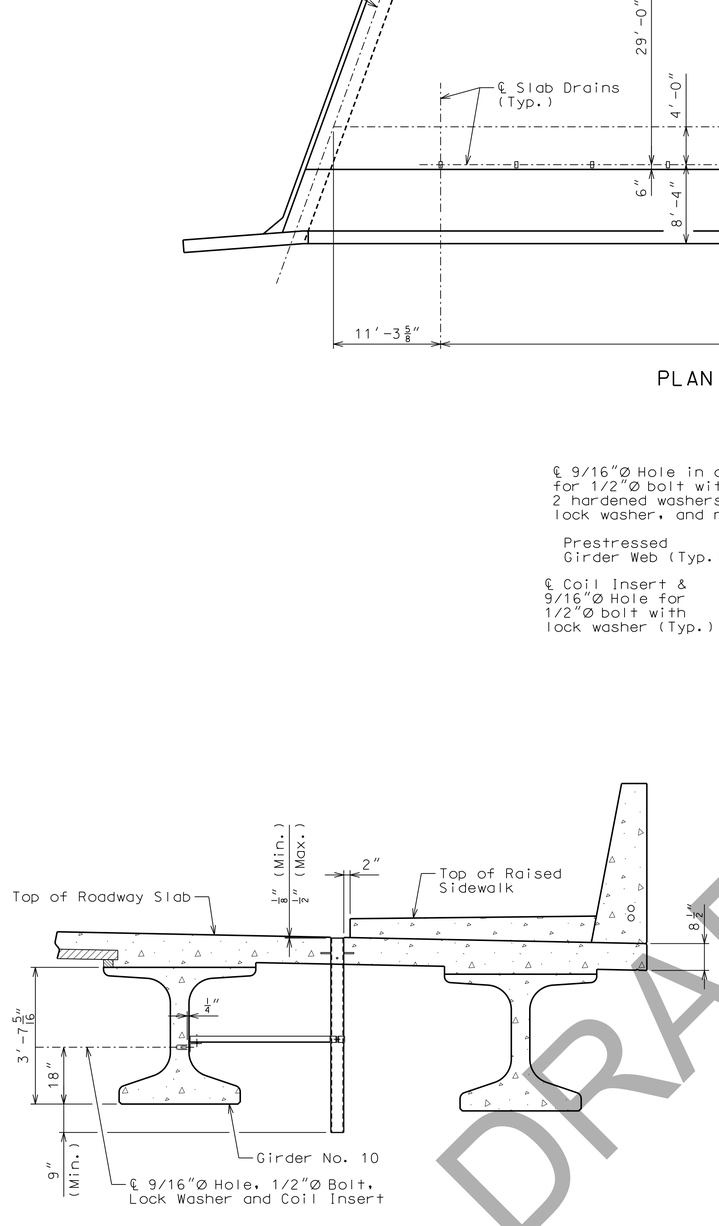
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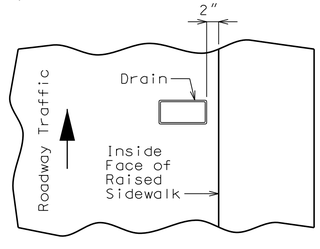
PLAN SHOWING DRAIN LOCATIONS



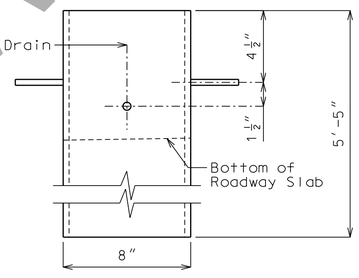
PART SECTION SHOWING BRACKET ASSEMBLY



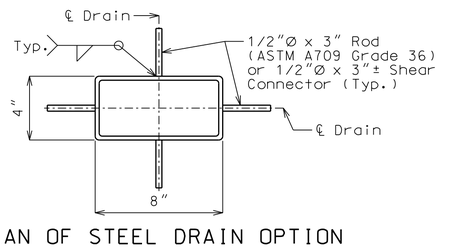
PART SECTION NEAR DRAIN



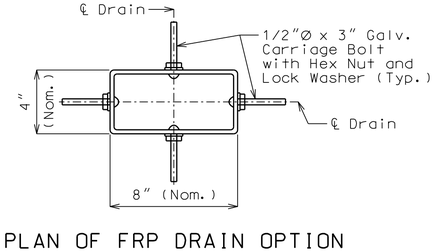
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The coil inserts and bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with ASTM A153.

Shop drawings will not be required for the slab drains and the bracket assembly.

The coil insert required for the bracket assembly attachment shall be located on the prestressed girder shop drawings.

Coil inserts shall have a concrete pull-out strength (ultimate load) of at least 2,500 pounds in 5,000 psi concrete.

The bolt required to attach the slab drain bracket assembly to the prestressed girder web shall be supplied by the prestressed girder fabricator.

Notes for Steel Drain:

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be as recommended by the manufacturer to ensure a smooth, chip free cut.

No additional payment will be made for this substitution.

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COUNTY ST. LOUIS
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PROJECT NO.
BRIDGE NO. A8717

DATE	DESCRIPTION

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JEFFERSON CITY, MO 65102
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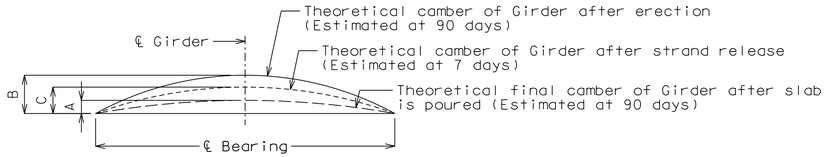
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SLAB DRAIN DETAILS

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Note: This drawing is not to scale. Follow dimensions.

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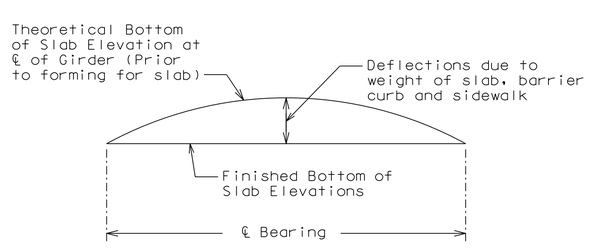


Girder	Span (1-2)		
	A	B	C
Ext. Girder No. 1	4 1/8"	7 1/4"	4 3/4"
Int. Girder No. 2-10	3 7/8"		
Ext. Girder No. 11	4 1/8"		

GIRDER CAMBER DIAGRAM

Conversion Factors for Girder Camber (Estimated at 90 days):

0.1 pt. = 0.314 x 0.5 pt.
0.2 pt. = 0.593 x 0.5 pt.
0.3 pt. = 0.813 x 0.5 pt.
0.4 pt. = 0.952 x 0.5 pt.

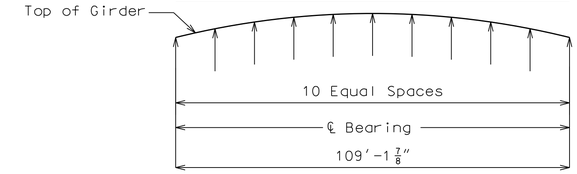


TYPICAL SLAB ELEVATIONS DIAGRAM

Theoretical Bottom of Slab Elevations at Centerline of Girder (Prior to forming for slab) (Estimated at 90 days)											
Girder No.	Span (1-2) (109'-1 7/8" ℄ Brg. - ℄ Brg.)										
	℄ Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	℄ Brg.
Girder No. 1	446.47	446.61	446.71	446.76	446.74	446.67	446.54	446.36	446.11	445.82	445.51
Girder No. 2	446.63	446.79	446.90	446.96	446.97	446.91	446.79	446.61	446.37	446.07	445.76
Girder No. 3	446.78	446.95	447.07	447.15	447.16	447.12	447.01	446.83	446.61	446.32	446.01
Girder No. 4	446.92	447.11	447.24	447.33	447.35	447.32	447.22	447.06	446.84	446.57	446.25
Girder No. 5	447.07	447.26	447.41	447.51	447.54	447.52	447.43	447.28	447.07	446.81	446.50
Girder No. 6	447.21	447.41	447.57	447.68	447.73	447.71	447.63	447.50	447.30	447.05	446.75
Girder No. 7	447.07	447.28	447.45	447.57	447.63	447.62	447.56	447.43	447.24	447.00	446.72
Girder No. 8	446.84	447.07	447.25	447.38	447.45	447.45	447.40	447.28	447.10	446.87	446.60
Girder No. 9	446.62	446.85	447.04	447.18	447.26	447.28	447.24	447.13	446.96	446.74	446.48
Girder No. 10	446.39	446.63	446.83	446.98	447.07	447.10	447.07	446.97	446.82	446.61	446.36
Girder No. 11	446.17	446.40	446.60	446.76	446.86	446.89	446.87	446.79	446.65	446.46	446.23

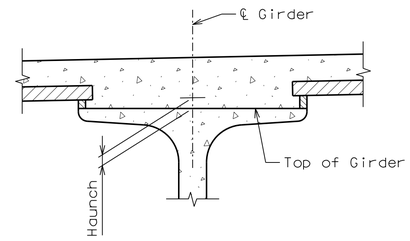
Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab (including precast panel), barrier curb and sidewalk.

	Bottom of Slab	Top of Girder
Girder No. 1	1 1/2"	2 3/16"
Girder No. 2	1 1/2"	2 5/16"
Girder No. 3	1 1/2"	2 5/16"
Girder No. 4	1 1/2"	2 5/16"
Girder No. 5	1 1/2"	2 5/16"
Girder No. 6	1 1/2"	2 5/16"
Girder No. 7	1 11/16"	2 1/2"
Girder No. 8	1 1/2"	2 5/16"
Girder No. 9	1 1/2"	2 5/16"
Girder No. 10	1 1/2"	2 1/4"
Girder No. 11	1 1/2"	2"



Span (1-2)

THEORETICAL SLAB HAUNCHING DIAGRAM



SLAB HAUNCHING DETAIL

Notes:

If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Concrete NU-Girder.

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CAMBER, SLAB ELEVATIONS AND HAUNCHING

Detailed December 2019
Checked December 2019

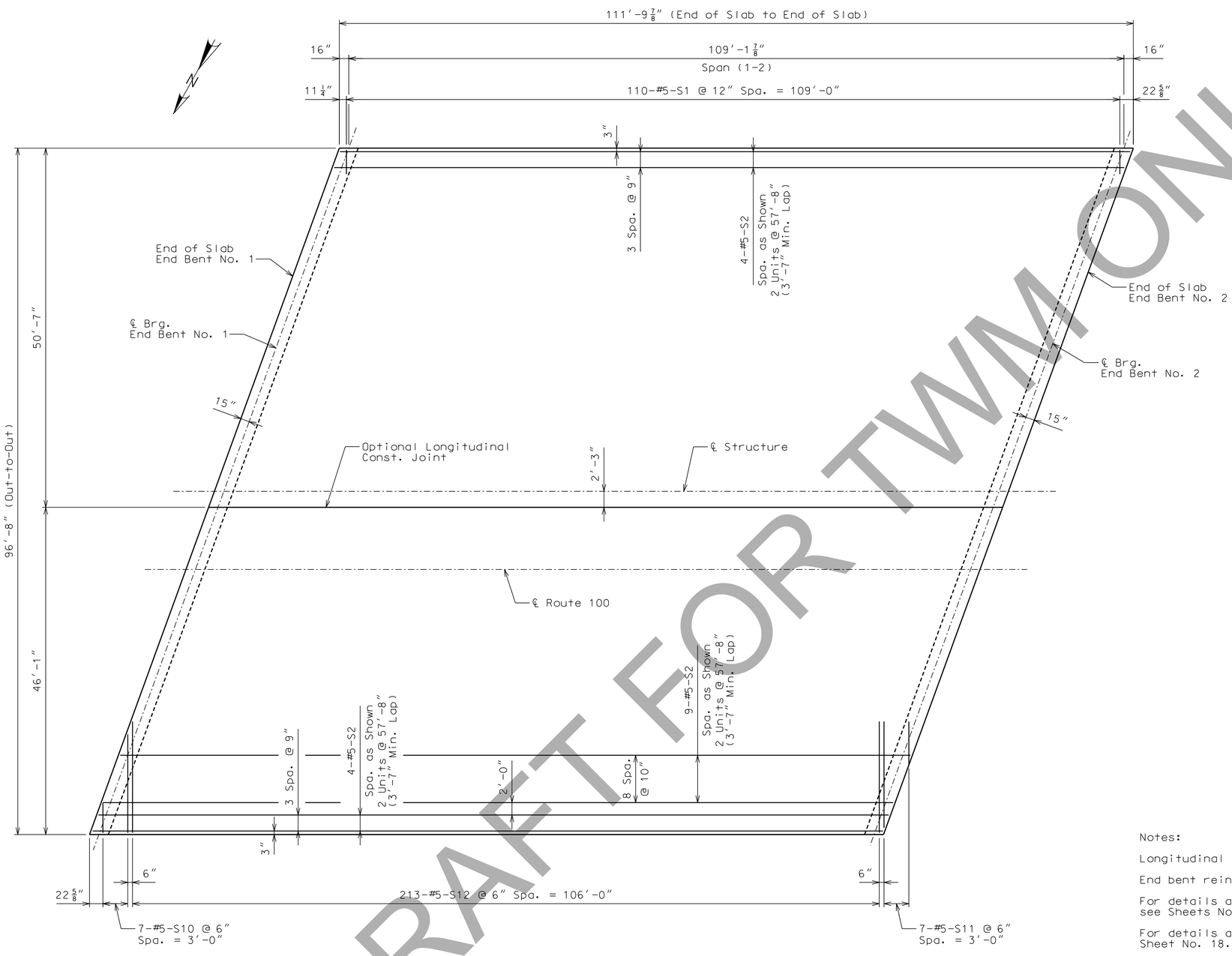
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ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 15
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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St. Louis, MO 63103-2267
314-425-8300
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Notes:

Longitudinal slab dimensions are measured horizontal.

End bent reinforcement not shown for clarity.

For details and reinforcement of Barrier Curb (Mod. Type D), see Sheets No. 20 & 21.

For details and reinforcement of raised sidewalk, see Sheet No. 18.

For Plan of Slab Reinforcement - Top, see Sheet No. 17.

For Typical Slab Section and Details, see Sheet No. 19.

For details of Precast Prestressed Panels, see Sheet No. 13.

For Theoretical Slab Haunching Diagram and Theoretical Bottom of Slab Elevations, see Sheet No. 15.

PLAN OF SLAB REINFORCEMENT - BOTTOM

Detailed December 2019
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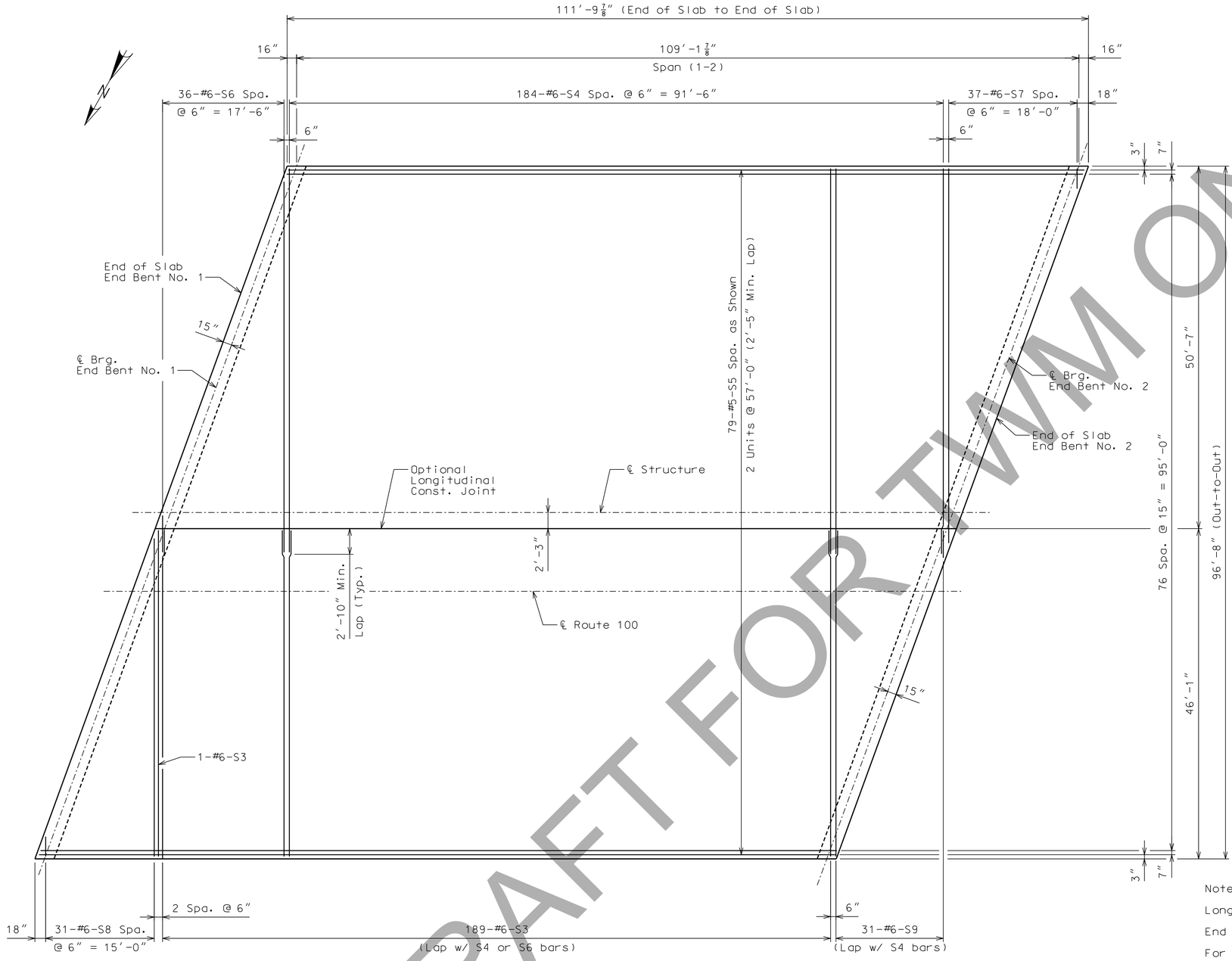
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DATE PREPARED	12/18/2019
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	16
COUNTY	ST. LOUIS
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Notes:

Longitudinal slab dimensions are measured horizontal.

End bent reinforcement not shown for clarity.

For details and reinforcement of Barrier Curb (Mod. Type D), see Sheets No. 20 & 21.

For details and reinforcement of raised sidewalk, see Sheet No. 18.

For Plan of Slab Reinforcement - Bottom, see Sheet No. 16.

For Typical Slab Section and Details, see Sheet No. 19.

For details of Precast Prestressed Panels, see Sheet No. 13.

For Theoretical Slab Haunching Diagram and Theoretical Bottom of Slab Elevations, see Sheet No. 15.

For details and reinforcement of Sidewalks, see Sheet No. 18.

PLAN OF SLAB REINFORCEMENT - TOP

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Note: This drawing is not to scale. Follow dimensions.

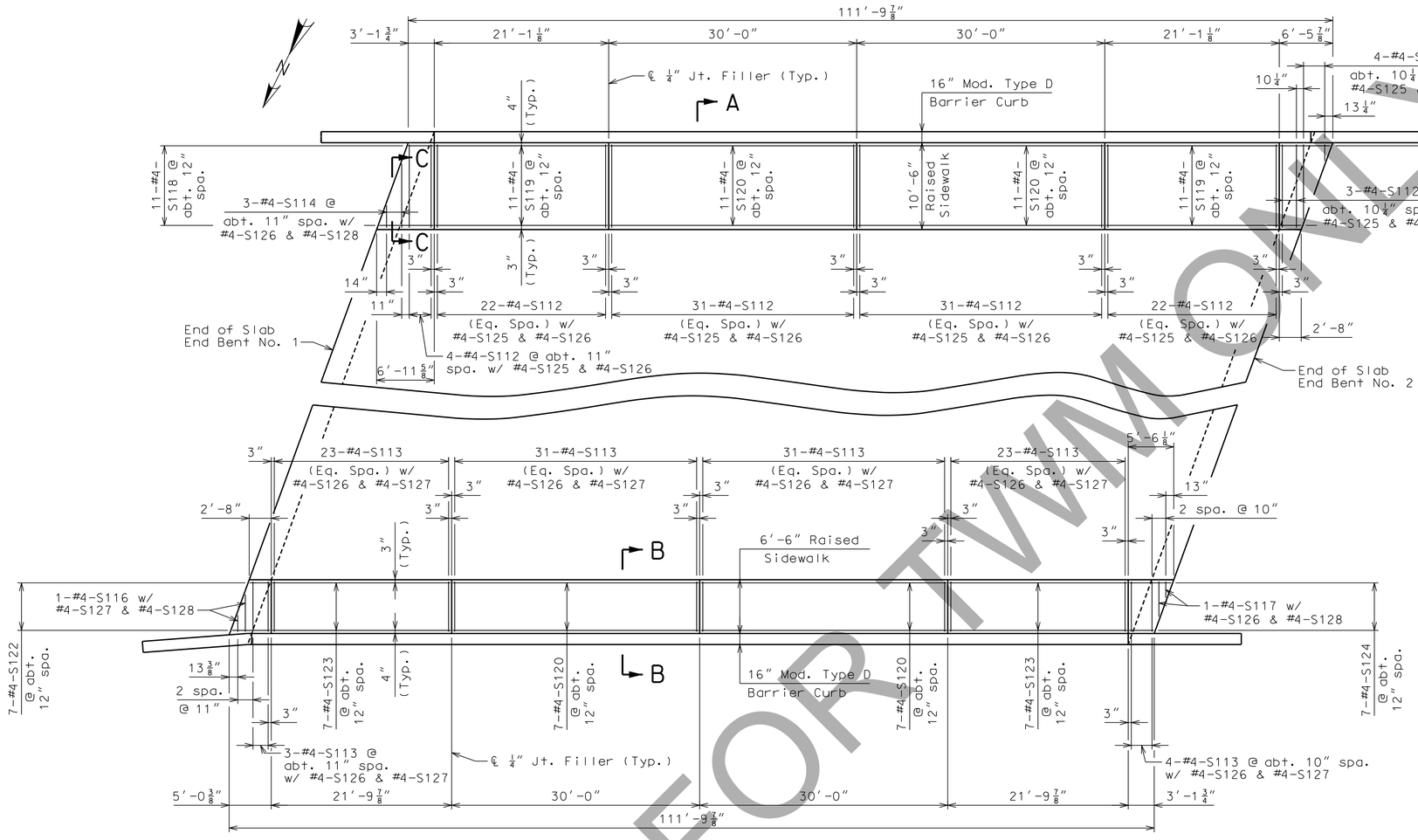
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ROUTE: 100 | STATE: MO
DISTRICT: BR | SHEET NO.: 17
COUNTY: ST. LOUIS
JOB NO.: J6S1718
CONTRACT ID.:
PROJECT NO.:
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PART PLAN SHOWING SIDEWALK REINFORCEMENT

FILLED JOINT DETAIL

SECTION A-A

SECTION B-B

SECTION C-C

Notes:

All exposed edges shall have either a 1/2″ radius or a 3/8″ bevel.

Concrete in the sidewalk shall be Class B-2.

For details of reinforcement in slab, see Sheets No. 16 & 17.

For details of Barrier Curb (Mod. Type D), see Sheets No. 20 & 21.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Sidewalk (Bridges) per Sq. Foot.

Measurement of the sidewalk is to the nearest square foot. The measurement will be horizontally along the outside face of sidewalk and from end to end of slab.

RAISED SIDEWALK DETAILS

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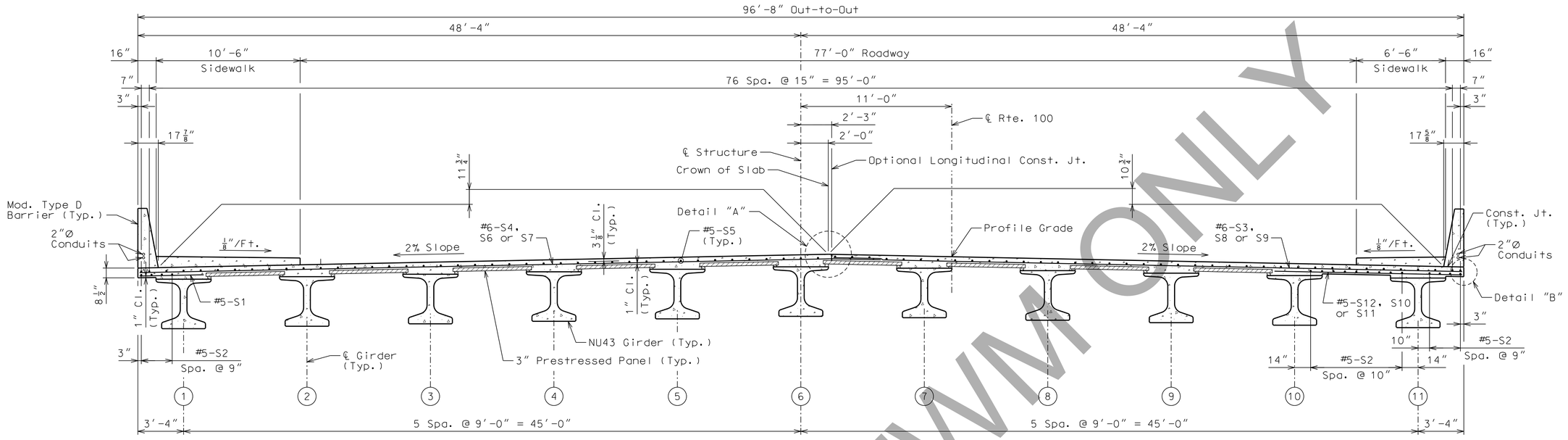
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DISTRICT BR | SHEET NO. 18
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

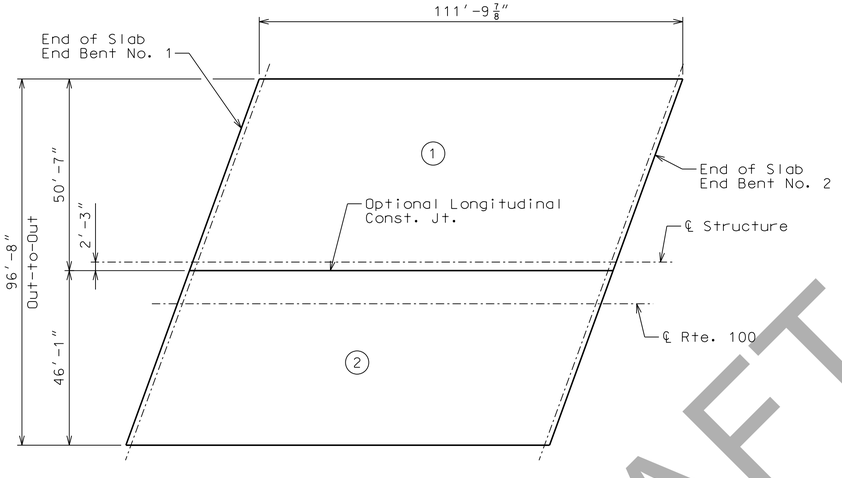
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SECTION THRU SLAB



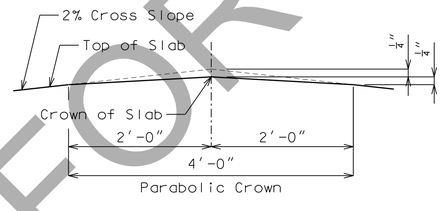
POUR SEQUENCE

The contractor shall pour up or down grade and satisfactorily finish the roadway slab at a rate of not less than 64 cubic yards per hour.

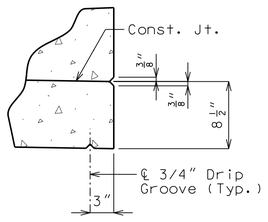
The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours and shall pour and satisfactorily finish the slab pours at the rate given.

The concrete diaphragm at the integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

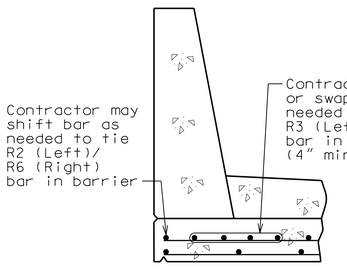
If the optional longitudinal joint is used, the pour rate can be reduced to 34 cubic yards per hour.



DETAIL "A"

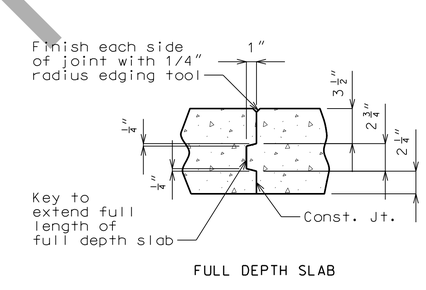


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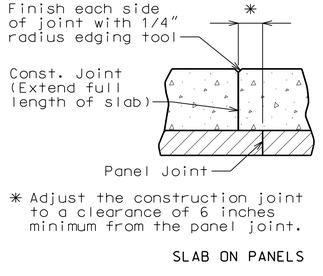


OPTIONAL SHIFTING TOP BARS AT BARRIER

(Left barrier shown, right barrier similar)



FULL DEPTH SLAB



* Adjust the construction joint to a clearance of 6 inches minimum from the panel joint.

SLAB ON PANELS

SLAB CONSTRUCTION JOINT

Notes:

For Plan of Slab Reinforcement, see Sheets No. 16 & 17.

For details and reinforcement of Barrier Curb (Mod. Type D), see Sheets No. 20 & 21.

For Theoretical Slab Haunching Diagram and Theoretical Bottom of Slab Elevations, see Sheet No. 15.

For details of Precast Prestressed Panels, see Sheet No. 13.

For details and location of slab drains, see Sheet No. 14.

For details and reinforcement of raised sidewalks, see Sheet No. 18.

TYPICAL SLAB SECTION AND DETAILS

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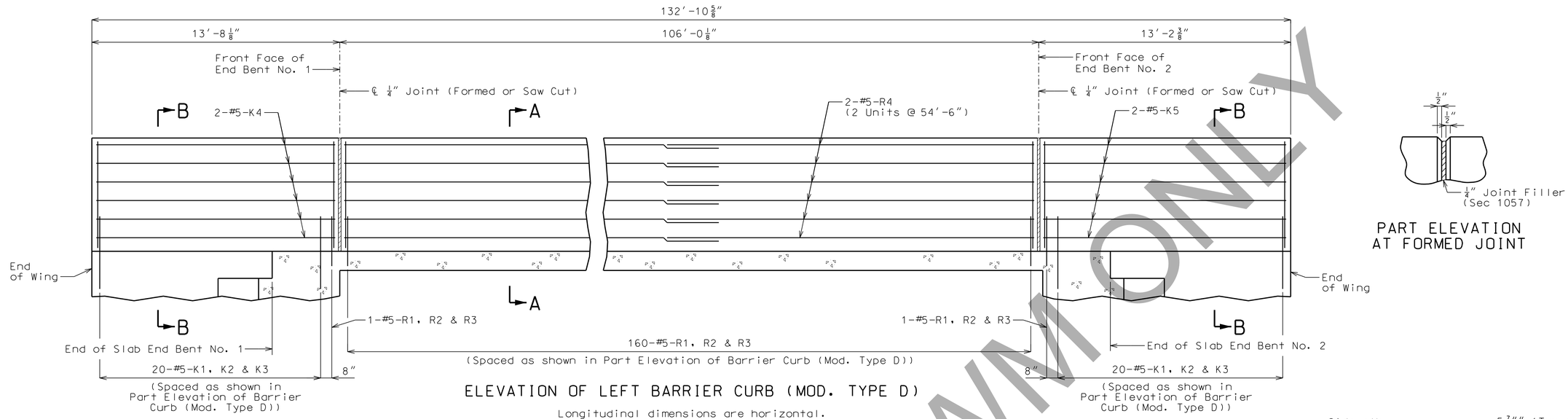
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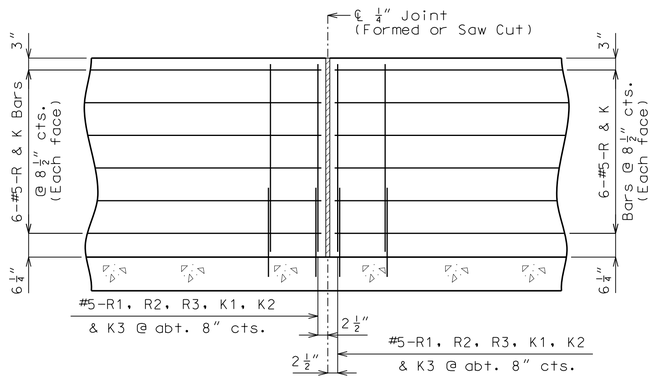
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HDR Engineering, Inc.
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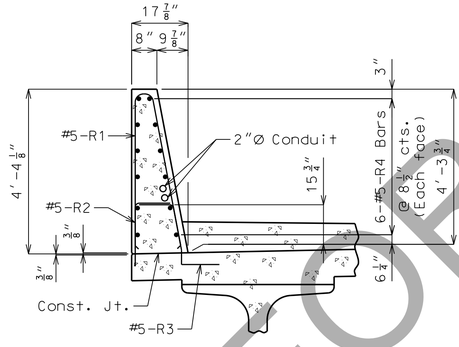


ELEVATION OF LEFT BARRIER CURB (MOD. TYPE D)

Longitudinal dimensions are horizontal.



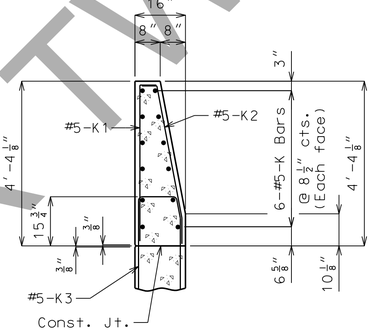
PART ELEVATION OF BARRIER CURB (MOD. TYPE D)



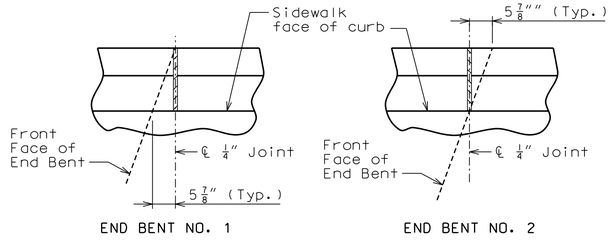
SECTION A-A

Use a minimum lap of 3′-1″ for #5 horizontal barrier curb (Mod. Type D) bars.

The cross-sectional area above the slab = 4.67 sq. ft.

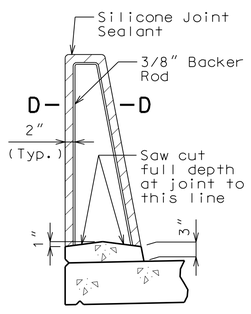


SECTION B-B

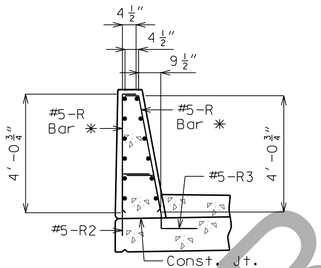


PART PLAN SHOWING BARRIER CURB JOINT

SECTION D-D

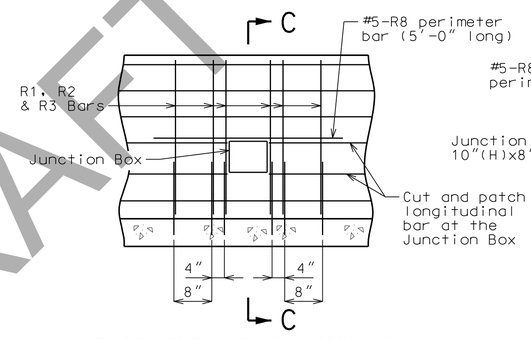


SECTION THRU SAW CUT JOINT



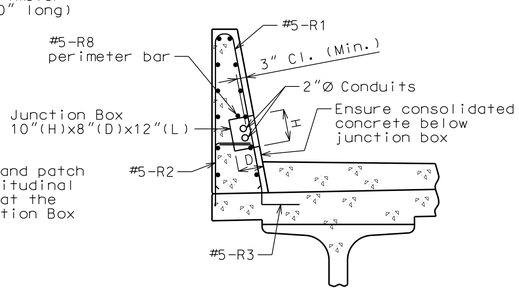
R-BAR PERMISSIBLE ALTERNATE SHAPE

✳ The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)



PART ELEVATION SHOWING REINFORCEMENT AT JUNCTION BOX

(7 Total locations along left barrier)



SECTION C-C

General Notes

Top of barrier curb (Mod. Type D) shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

All exposed edges of barrier curb (Mod. Type D) shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Barrier Curb (Mod. Type D) per linear foot.

Concrete in the barrier curb (Mod. Type D) shall be Class B-1.

Measurement of barrier curb (Mod. Type D) is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

For location of Junction Boxes, see Sheet No. 24.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

DETAILS OF CONVENTIONAL-FORMED LEFT BARRIER CURB (MOD. TYPE D)

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 20 of 33

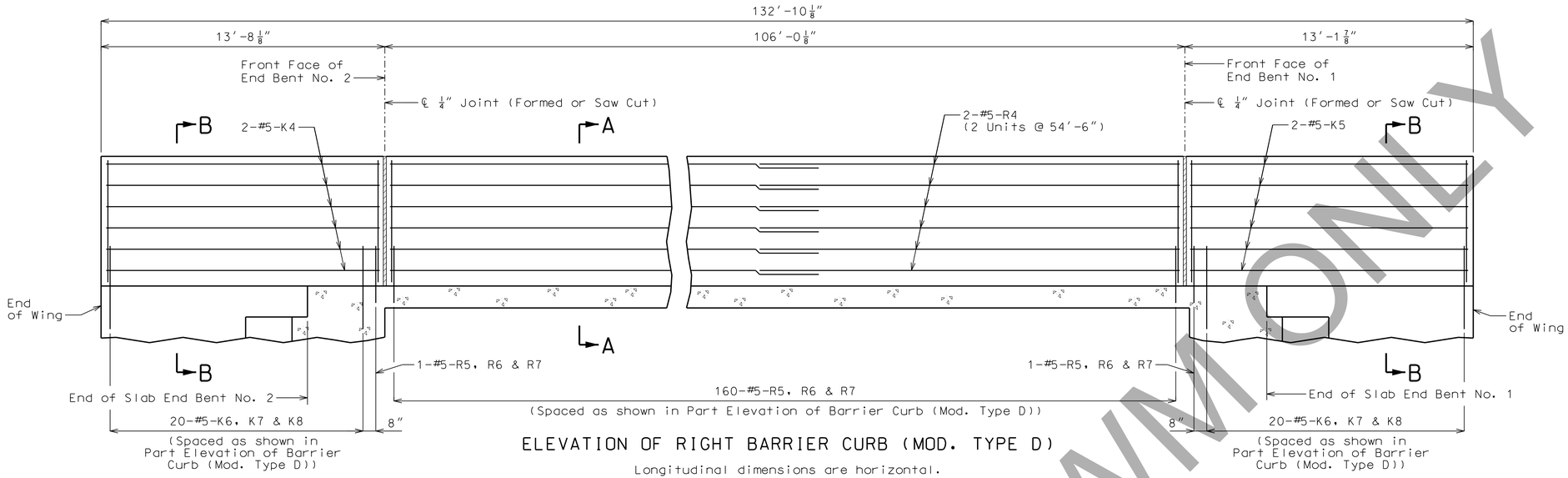
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ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 20
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

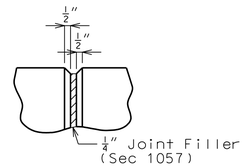
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

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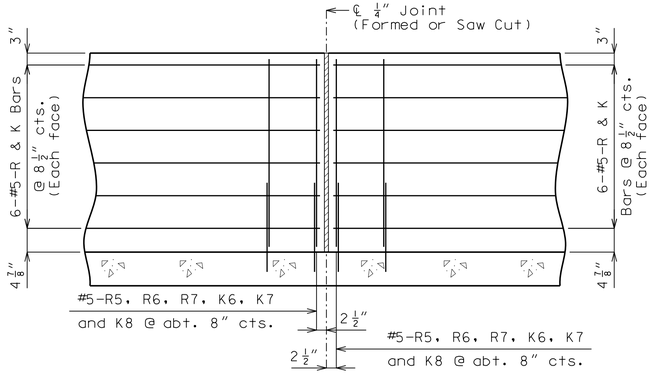


ELEVATION OF RIGHT BARRIER CURB (MOD. TYPE D)

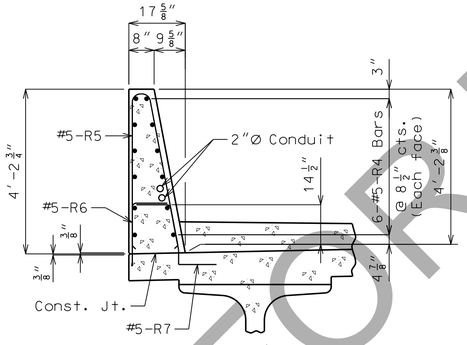
Longitudinal dimensions are horizontal.



PART ELEVATION AT FORMED JOINT



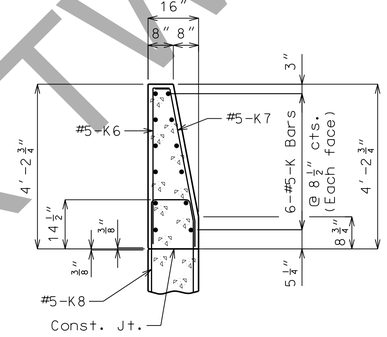
PART ELEVATION OF BARRIER CURB (MOD. TYPE D)



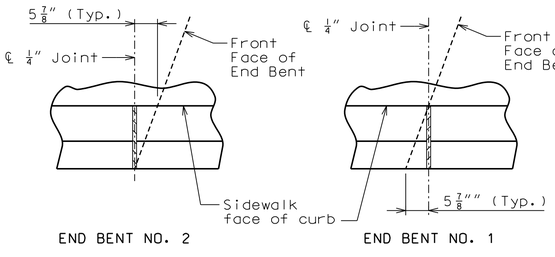
SECTION A-A

Use a minimum lap of 3′-1″ for #5 horizontal barrier curb (Mod. Type D) bars.

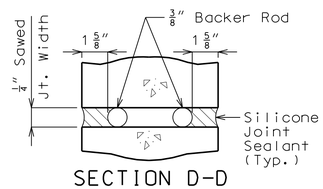
The cross-sectional area above the slab = 4.49 sq. ft.



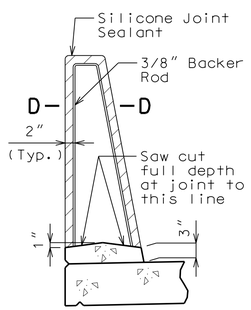
SECTION B-B



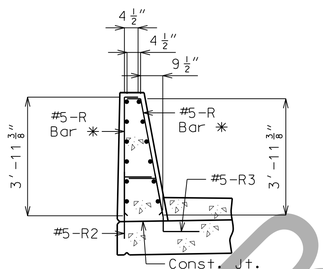
PART PLAN SHOWING BARRIER CURB JOINT



SECTION D-D

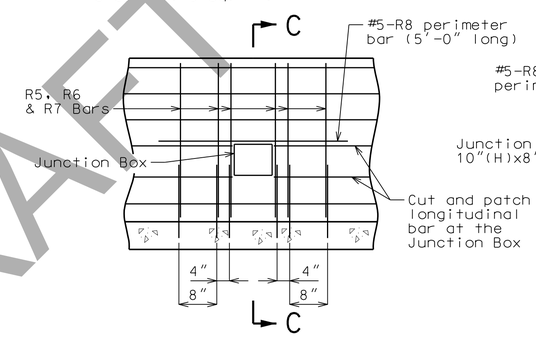


SECTION THRU SAW CUT JOINT



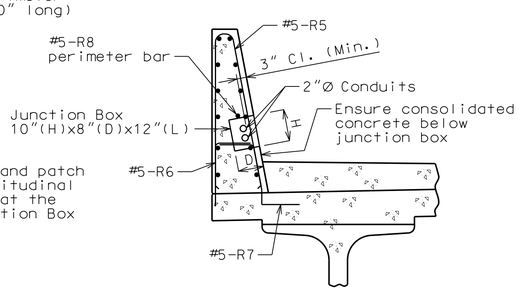
R-BAR PERMISSIBLE ALTERNATE SHAPE

✳ The R5 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)



PART ELEVATION SHOWING REINFORCEMENT AT JUNCTION BOX

(7 Total locations along right barrier)



SECTION C-C

General Notes

Top of barrier curb (Mod. Type D) shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

All exposed edges of barrier curb (Mod. Type D) shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Barrier Curb (Mod. Type D) per linear foot.

Concrete in the barrier curb (Mod. Type D) shall be Class B-1.

Measurement of barrier curb (Mod. Type D) is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

For location of Junction Boxes, see Sheet No. 24.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

DETAILS OF CONVENTIONAL-FORMED RIGHT BARRIER CURB (MOD. TYPE D)

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

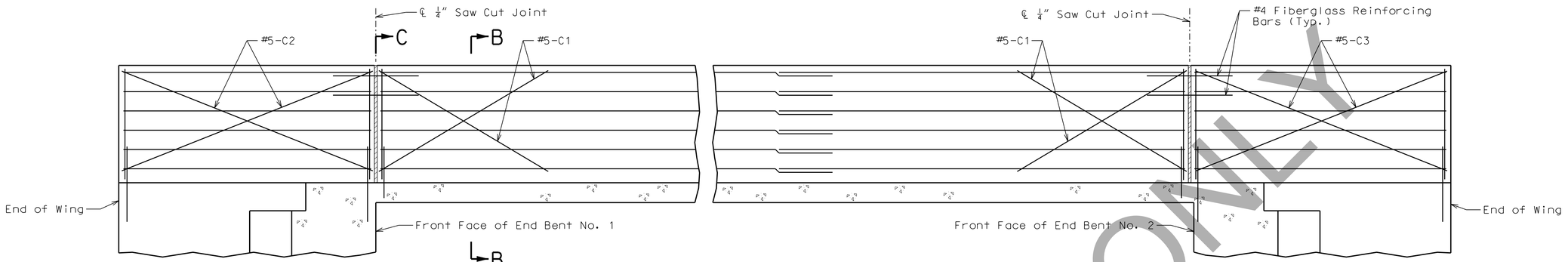
DRAFT FOR TWM ONLY

DATE PREPARED	1/2/2020
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SHEET NO.	21
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8717

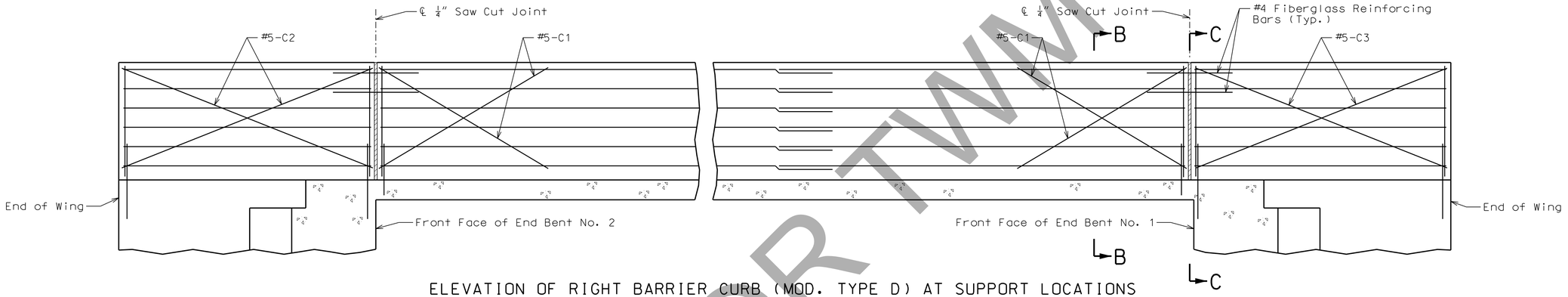
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

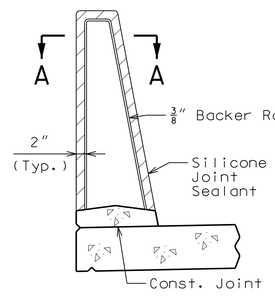
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000656



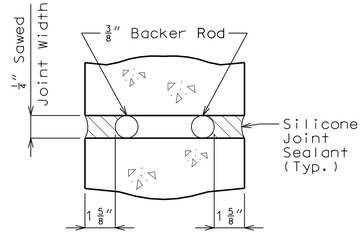
ELEVATION OF LEFT BARRIER CURB (MOD. TYPE D) AT SUPPORT LOCATIONS



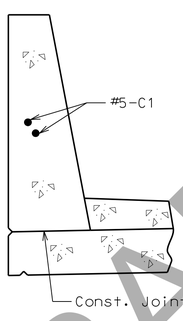
ELEVATION OF RIGHT BARRIER CURB (MOD. TYPE D) AT SUPPORT LOCATIONS



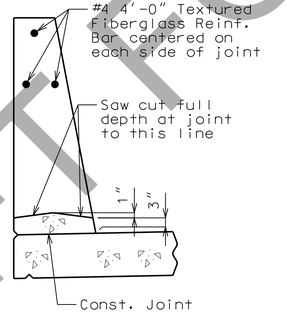
SECTION THRU SAW CUT JOINT



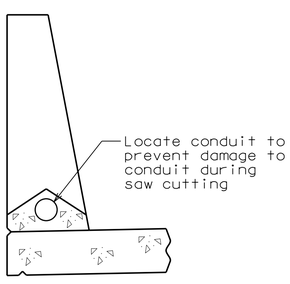
SECTION A-A



SECTION B-B
(Reinforcing not shown for clarity)



SECTION C-C



SECTION C-C

General Notes:

Top of barrier curb (Mod. Type D) shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

All exposed edges of barrier curb (Mod. Type D) shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Barrier Curb (Mod. Type D) per linear foot.

Concrete in the barrier curb (Mod. Type D) shall be Class B-1.

Measurement of barrier curb (Mod. Type D) is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Joint sealant and backer rods shall be used on all slip-form barrier curbs instead of joint filler and shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with slip-form option.

For slip-form option, all sides of the barrier curb shall have a vertically broomed finish and the curb top shall have a transversely broomed finish.

C bars (slip-form option only) shall be used in addition to cast-in-place conventional forming reinforcement for bridge barrier curb (Mod. Type D).

OPTIONAL SLIP-FORM BARRIER CURB (MOD. TYPE D)

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

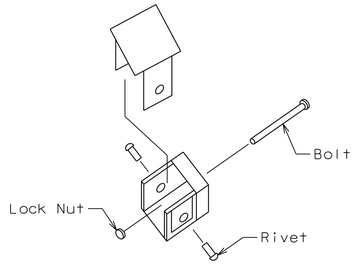
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ROUTE 100 | STATE MO
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COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

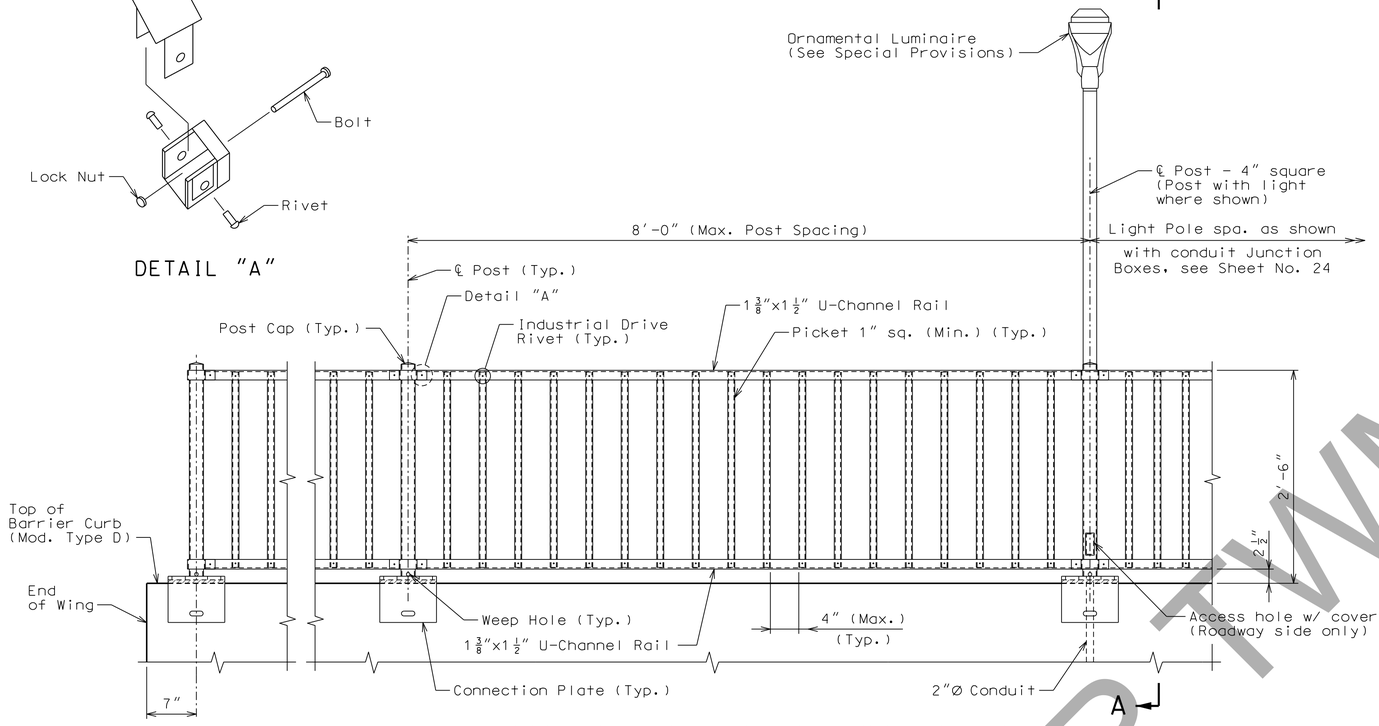
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St.Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

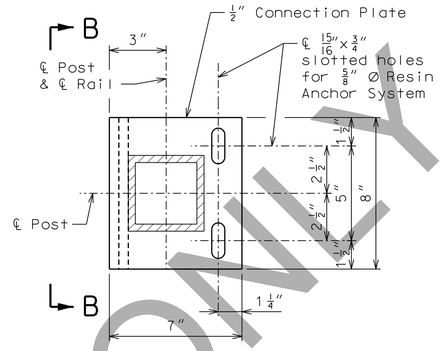
DRAFT FOR TWM ONLY



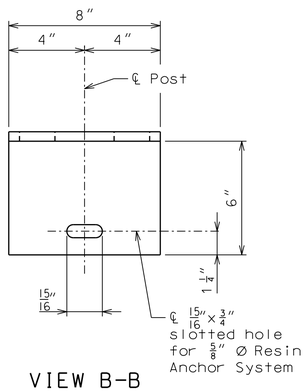
DETAIL "A"



TYPICAL ELEVATION OF PEDESTRIAN FENCE



PLAN OF CONNECTION PLATE



VIEW B-B

GENERAL NOTES:

Plans are for the design of the post spacing and base plate connection only. Railing, post, base plate and ornamental luminaire details are shown schematically and are based on the preliminary information provided. Contractor shall submit detailed shop drawings and calculations based on a design in accordance with 2012 AASHTO LRFD Standard Specifications (6th Ed.) and 2013 Interim Revisions and signed and sealed by a professional engineer registered in the State of Missouri.

All rail posts shall be vertical. Grout of 1/2" minimum thickness shall be placed under connection plates to provide for vertical alignment of rail posts and shall be in accordance with Sec 1066.

Payment for furnishing, galvanizing, finishing and erecting the pedestrian fence and ornamental luminaires, complete with anchor bolts and washers, will be considered completely covered by the contract unit price for Ornamental Pedestrian Fence per linear foot.

The limits of the Ornamental Pedestrian Fence along the top of each Barrier Curb (Mod. Type D) are from end of wing to end of wing as shown in the typical elevation detail.

Dimensions of pedestrian fence are measured horizontally.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 5/8".

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered covered by the contract unit price for Ornamental Pedestrian Fence.

All connections from post to rail shall be bolted.

Install fence per manufacturer's recommendations.

Tubular steel shall be ASTM A-924/A924M with a minimum yield strength of 45 ksi.

U-Channel steel shall be ASTM A-653/A653M with a minimum yield strength of 50 ksi.

Connection plates shall be ASTM A709, Grade 36.

Rail/post brackets shall be die cast of zinc per ASTM B86-83Z 33521 and shall accommodate rail angles up to 30° in any direction. Rail/post bracket shall have a minimum shear strength of 3,000 lbs and holding strength of 2,200 lbs. Bracket to have security cover.

Post caps shall be cast aluminum, malleable iron, or formed steel.

Industrial drive rivets shall have a minimum shear strength of 1,500 lbs and holding power of 1,100 lbs.

Galvanize tubular steel, U-Channels and connection plates per ASTM A653/A653M with G90 zinc coating, 0.90 oz/sf.

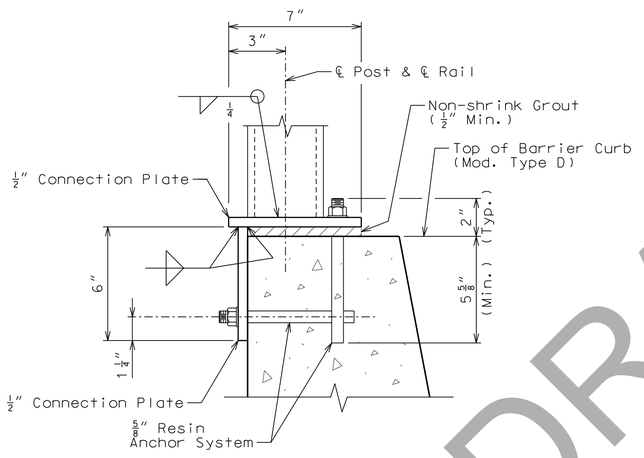
All fence elements shall be powder coated with zinc enriched epoxy primer powder coat of 2-4 mils and ultra polyester finish TGIC powder coat of 2-4 mils. Finish color shall be black.

The contractor shall field verify the location of the installed post anchoring systems and ornamental luminaires prior to fabrication of the ornamental fence.

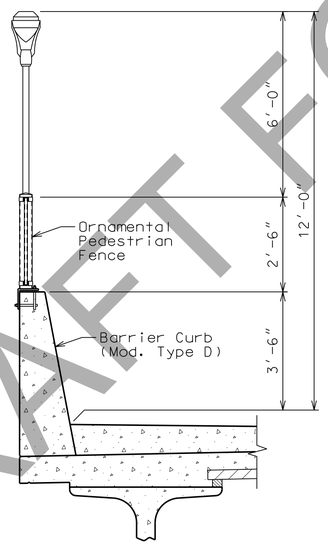
Centerline of post may be field adjusted to miss barrier joints.

For Conduit System Details, see Sheet No. 24.

For Details of Barrier Curb (Mod. Type D), see Sheets No. 20 & 21.



POST CONNECTION DETAIL



SECTION A-A

PEDESTRIAN FENCE DETAILS

DRAFT FOR TWMO ONLY

DATE PREPARED	12/30/2019
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	23
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8717

DESCRIPTION | DATE

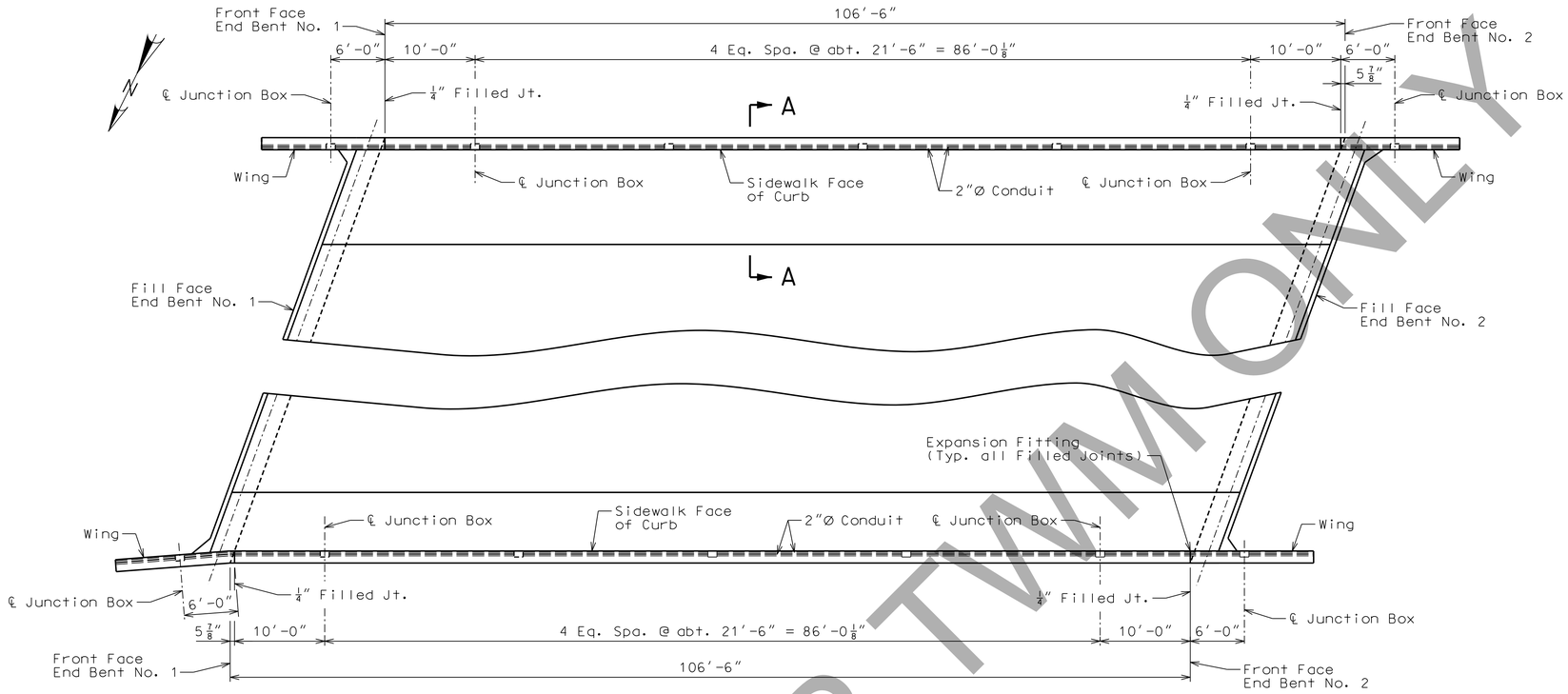
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

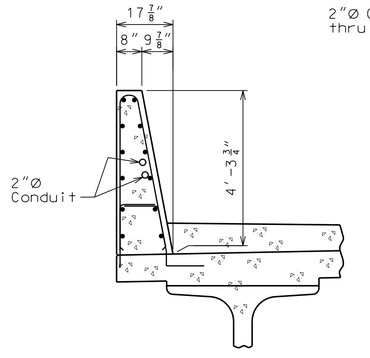
Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

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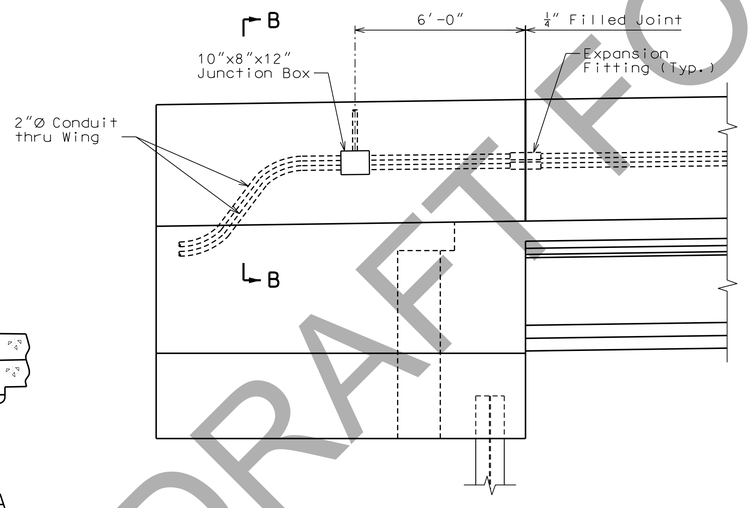


PART PLAN SHOWING CONDUIT THRU BARRIER CURB

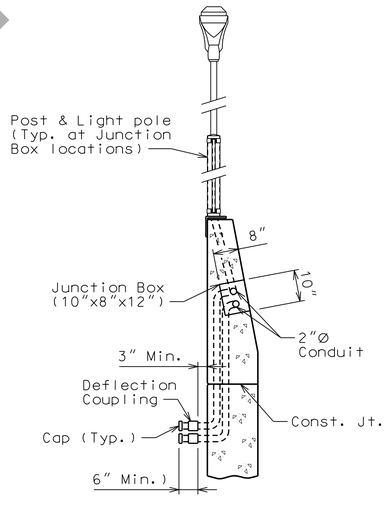


SECTION A-A

(Left barrier shown, right barrier similar)



TYPICAL PART ELEVATION OF WING



SECTION B-B

Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall PVC (polyvinyl chloride plastic) with 3″ minimum cover in concrete. Each section of conduit shall bear the Underwriter's Laboratories, Inc., (UL) label.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fitting shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion of 1″ at filled joints using a maximum temperature range of 120° F and a maximum temperature of 110° F.

Minimum clearance preferred between conduits in the safety barrier curb shall be 1″.

All junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be of water tight construction and shall meet requirements for NEMA 4 enclosure.

Placement of junction boxes and covers, complete-in-place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4″.

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Longitudinal dimensions are measured horizontal.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Payment for furnishing and installing Conduit System in Barrier Curbs, complete-in-place, will be considered completely covered by the contract linear foot price for Conduit System on Structure.

CONDUIT SYSTEM DETAILS

DRAFT FOR TWM ONLY

DATE PREPARED	
12/19/2019	
ROUTE 100	STATE MO
DISTRICT BR	SHEET NO. 24
COUNTY ST. LOUIS	
JOB NO. J6S1718	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A8717	

DESCRIPTION	DATE

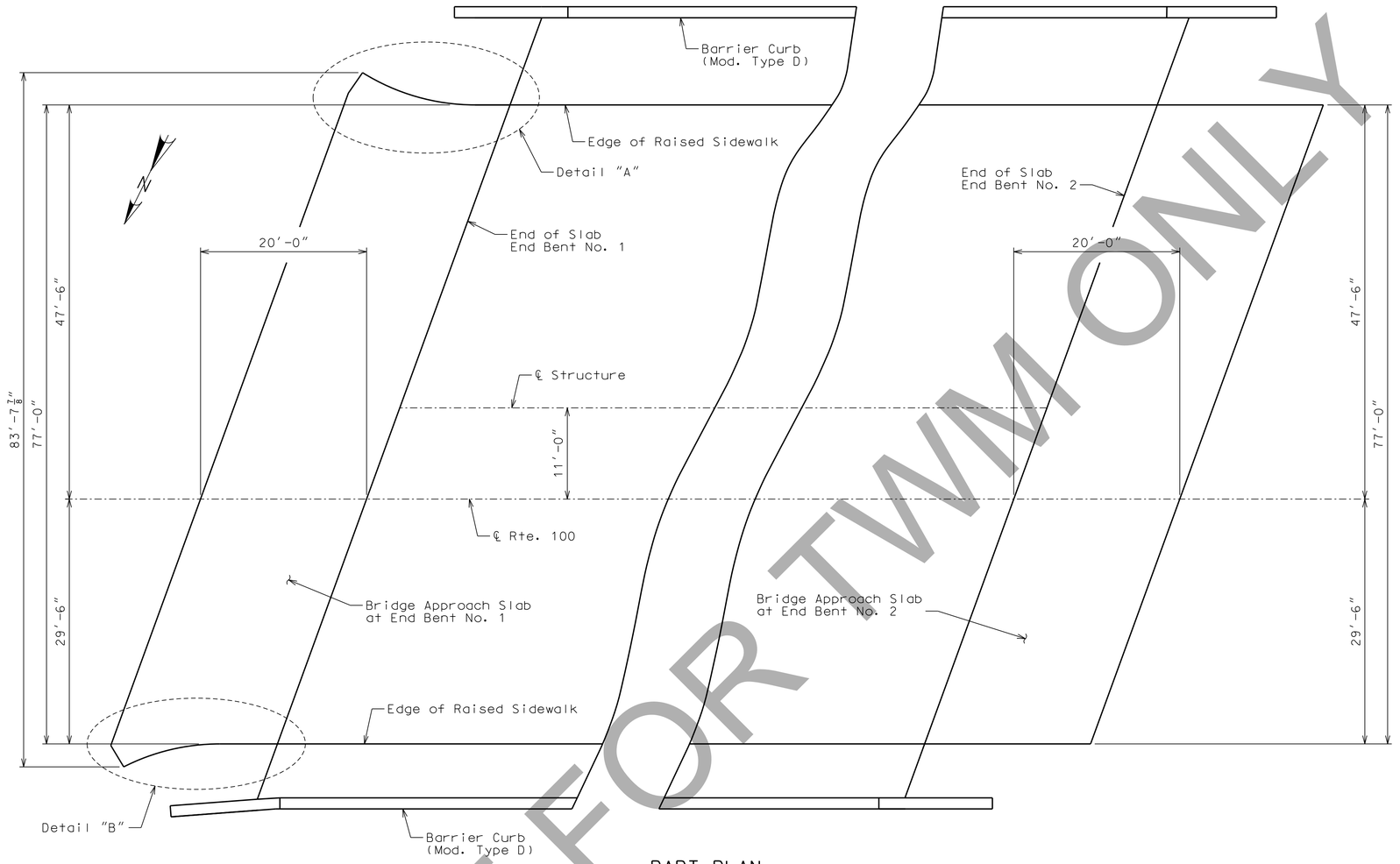
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

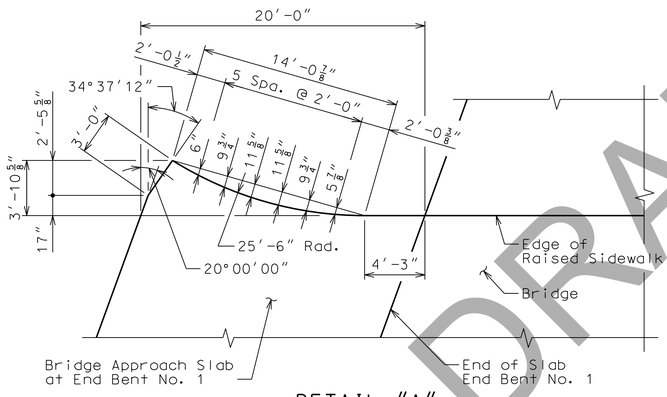
Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

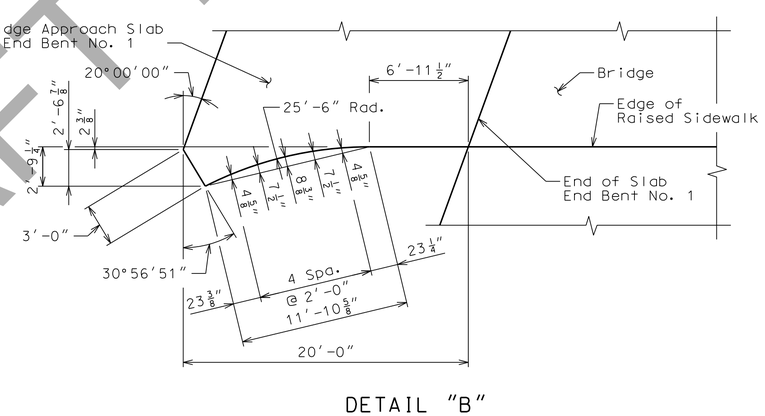
c:\pwworking\central01\d1156121\B_A8717_024_J6S1718.dgn 9:38:33 AM 12/19/2019



PART PLAN



DETAIL "A"



DETAIL "B"

APPROACH SLAB GEOMETRY

Notes:

For Details of Bridge Approach Slab at End Bent (Major Road), see Sheet No. 26.

See Roadway Plans for sidewalk transition details.

DRAFT FOR TWM ONLY

DATE PREPARED	12/19/2019
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	25
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8717

DESCRIPTION | DATE

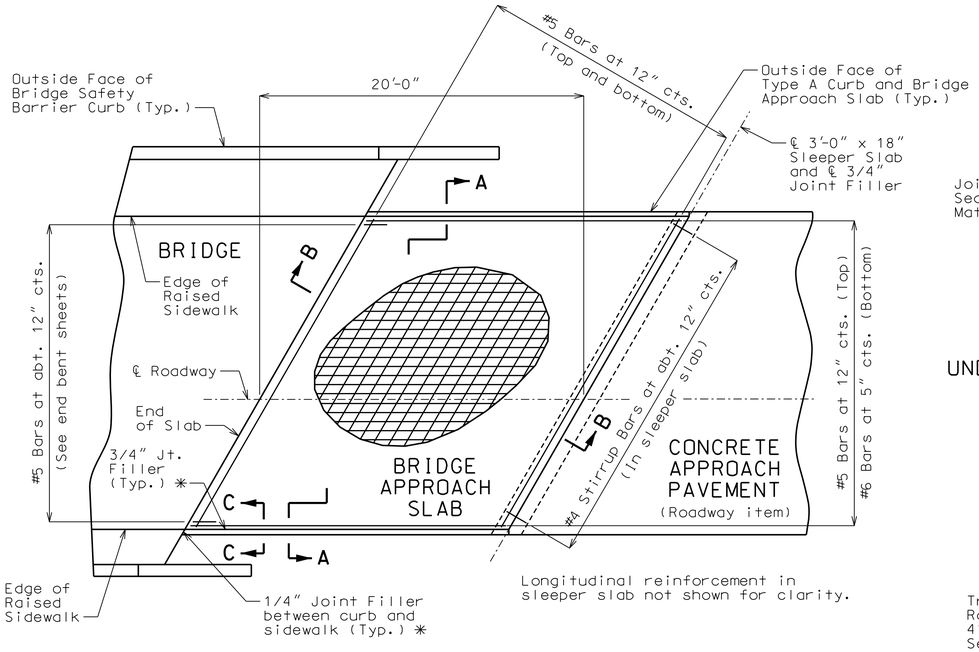
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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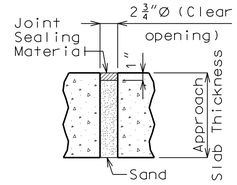
Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

c:\pwworking\central01\d1156121\B_A8717_025_J6S1718.dgn 9:42:04 AM 12/19/2019

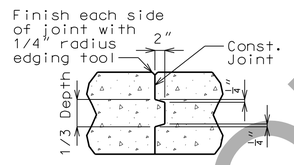


PART PLAN SHOWING REINFORCEMENT



UNDERSEAL ACCESS HOLE DETAIL

(If required)



CONST. JOINT DETAIL

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29".

Mechanical bar splices shall be in accordance with Sec 710.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge before pouring the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For Concrete Approach Pavement details, see roadway plans.

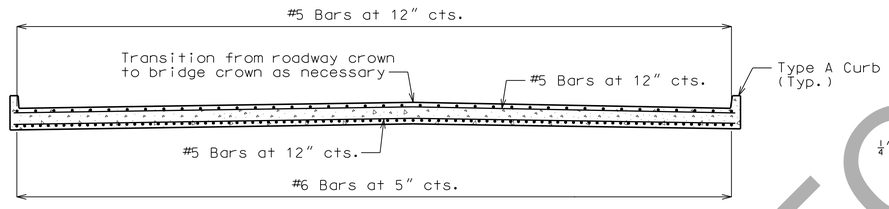
See Missouri Standard Plans Drawing 609.00 for details of Type A Curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major Road) per square yard.

* Seal joint between vertical face of approach slab and sidewalk with "Silicone Joint Sealant for Saw Cut and Formed Joints" in accordance with Sec 717.

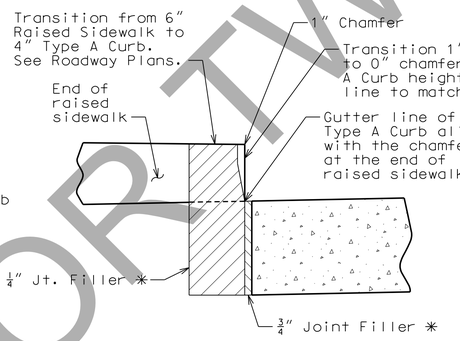
For Approach Slab Geometry for End Bents No. 1 & 2, see Sheet No. 25.

For transitions of curb along approach slab at both end bents, see Roadway Plans.



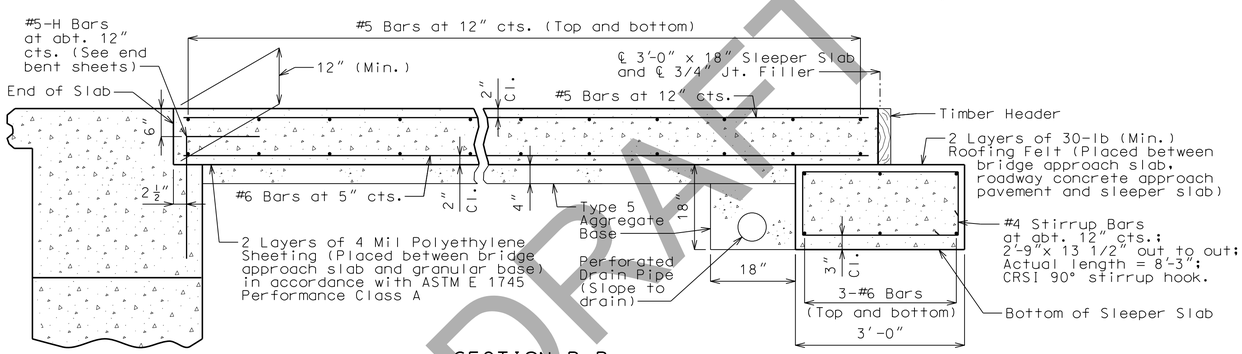
SECTION A-A

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

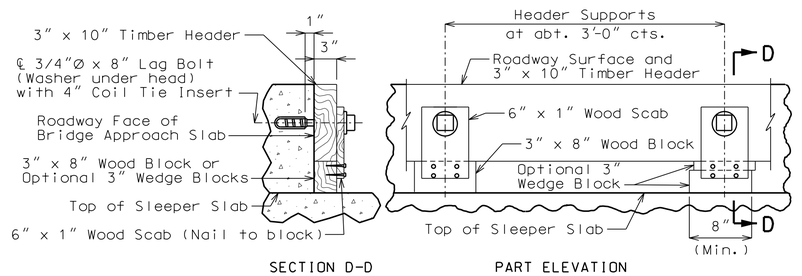


SECTION C-C

(Between raised sidewalk and curb)



SECTION B-B



SECTION D-D PART ELEVATION

DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.

DETAILS OF BRIDGE APPROACH SLAB AT END BENT (MAJOR ROAD)

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 26 of 33

DRAFT FOR TWM ONLY

DATE PREPARED	12/19/2019
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	26
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8717

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE	MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
SUBSTRUCTURE																												
END BENT NO. 1																												
10	6	F100	Brace	E	23					2	3.000	6	3.250	14.000		8.000		11.500		15.500		22.125		9	8	9	8	145
4	6	F101	Diaphragm	E	21					2	11.125	5	4.000							9.000		12.000		8	3	7	11	48
10	6	F102	Brace	E	23						14.000	4	4.750	2	3.000	22.125		15.500		11.500		8.000		7	10	7	9	116
4	6	F103	Diaphragm	E	21					2	11.125			5	3.000					9.000		12.000		8	2	8	1	49
12	7	H100	Beam	E	20					59	1.000													59	1	59	1	1449
4	7	H101	Beam	E	20					38	3.000													38	3	38	3	313
4	7	H102	Beam	E	20					14	0.000													14	0	14	0	114
4	6	H103	Beam	E	20					59	1.000													59	1	59	1	355
8	7	H104	Beam	E	20					48	3.000													48	3	48	3	789
4	7	H105	Beam	E	20					28	6.000													28	6	28	6	233
4	7	H106	Beam	E	20					18	11.000													18	11	18	11	155
4	6	H107	Beam	E	20					48	3.000													48	3	48	3	290
2	6	H108	Diaphragm	E	20					2	0.000													2	0	2	0	6
6	6	H109	Diaphragm	E	20					3	0.000													3	0	3	0	27
2	6	H110	Diaphragm	E	20					2	6.000													2	6	2	6	8
10	6	H111	Diaphragm	E	20					5	11.000													5	11	5	11	89
30	6	H112	Diaphragm	E	20					8	9.000													8	9	8	9	394
10	6	H113	Diaphragm	E	20					7	8.000													7	8	7	8	115
5	6	H114	Diaphragm	E	20					49	7.000													49	7	49	7	372
4	7	H115	Diaphragm	E	20					48	4.000													48	4	48	4	395
5	6	H116	Diaphragm	E	20					57	10.000													57	10	57	10	434
4	7	H117	Diaphragm	E	20					58	5.000													58	5	58	5	478
100	5	H118	App. Notch	E	19					2	0.000		15.000											3	3	3	1	322
10	6	H119	Wing	E	20					11	7.000													11	7	11	7	174
10	6	H120	Wing	E	19					10	6.750		12.000											11	7	11	5	171
4	8	H121	Wing	E	20					12	5.000													12	5	12	5	133
10	6	H122	Wing	E	20					11	7.000													11	7	11	7	174
10	6	H123	Wing	E	19					10	3.125		12.000											11	3	11	1	166
4	8	H124	Wing	E	20					12	8.000													12	8	12	8	135
11	6	H125	Diaphragm	E	20					5	6.000													5	6	5	6	91
11	5	H126	Diaphragm	E	20					5	3.000													5	3	5	3	60
4	8	H127	Wing	E	19					12	5.000		16.000											13	9	13	7	145
4	8	H128	Wing	E	19					12	8.000		16.000											14	0	13	10	148
11	5	U100	Beam	E	10	S						5	5.000	2	11.125									13	9	13	7	156
2	4	U101	Beam	E	10	S						2	8.000	2	11.125									8	3	8	1	11
13	4	U102	Beam	E	13	S				2	11.125	2	8.000	2	11.125	2	8.000							11	11	11	8	101
19	4	U103	Beam	E	13	S				2	11.125	2	11.625	2	11.125	2	11.625							12	7	12	4	157
2	4	U104	Beam	E	10	S						2	11.625	2	11.125									8	10	8	8	12
16	5	U105	Beam	E	10	S						5	8.000	2	11.125									14	3	14	1	235
21	4	U106	Beam	E	13	S				2	11.125	3	3.250	2	11.125	3	3.250							13	2	12	11	181
7	4	U107	Beam	E	10	S						3	3.250	2	11.125									9	6	9	4	44
20	5	U108	Beam	E	10	S						6	1.000	2	11.125									15	1	14	11	311
13	4	U109	Beam	E	13	S				2	11.125	3	7.000	2	11.125	3	7.000							13	9	13	6	117
5	5	U110	Beam	E	10	S						6	0.000	2	11.125									14	1	14	9	77
1	4	U111	Beam	E	10	S						3	7.000	2	11.125									10	19	11	7	
66	5	U112	Diaphragm	E	10	S						3	10.625	2	4.750									10	2	10	0	688
66	6	U113	Diaphragm	E	19	S				3	1.625	2	11.125											6	15	11	587
133	6	U114	Diaphragm	E	19	S				3	0.000	4	9.000											7	9	7	7	1515
28	5	V100	Beam	E	20					6	0.000													6	0	6	0	175
78	6	V101	Diaphragm	E	20					4	1.000													4	1	4	1	478
2	6	V102	Wing	E	20					7	0.000													7	0	7	0	21
20	6	V103	Wing	E	20			V	2	7	0.000													7	0	7	0	
										7	1.000													7	1	7	1	212

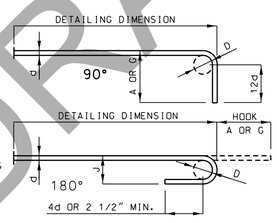
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE	MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
2	6	V104	Wing	E	20					7	4.000													7	4	7	4	22
20	6	V105	Wing	E	20			V	2	7	4.000													7	4	7	4	
										7	5.000													7	5	7	5	222
END BENT NO. 2																												
9	6	F200	Brace	E	23					2	3.000	6	3.250	14.000		8.000		11.500		15.500		22.125		9	8	9	8	131
4	6	F201	Diaphragm	E	21					2	11.125	5	3.000							9.000		12.000		8	2	7	10	47
10	6	F202	Brace	E	23						14.000	4	5.625	2	3.000	22.125		15.500		11.500		8.000		7	11	7	10	118
4	6	F203	Diaphragm	E	21					2	11.125			5	3.000					9.000		12.000		8	2	8	1	49
8	7	H200	Beam	E	20					59	1.000													59	1	59	1	966
4	6	H201	Beam	E	20					59	1.000													59	1	59	1	355
4	7	H202	Beam	E	20					38	4.000													38	4	38	4	313
4	7	H203	Beam	E	20					28	9.000													28	9	28	9	235
4	7	H204	Beam	E	20					19	2.000													19	2	19	2	157
4	7	H205	Beam	E	20					4	5.000													4	5	4	5	36
8	7	H206	Beam	E	20					48	4.000													48	4	48	4	790
4	6	H207	Beam	E	20					48	4.000													48	4	48	4	290
4	7	H208	Beam	E	20					48	4.000													48	4	48	4	395
4	7	H209	Beam	E	20					38	0.000													38	0	38	0	311
4	7	H210	Beam	E	20					18	10.000													18	10	18	10	154
2	6	H211	Diaphragm	E	20					2	0.000													2	0	2	0	6
6	6	H212	Diaphragm	E	20					3	0.000													3	0	3	0	27
2	6	H213	Diaphragm	E	20					2	6.000													2	6	2	6	8
10	6	H214	Diaphragm	E	20					5	11.000													5	11	5	11	89
30	6	H215	Diaphragm	E	20					8	9.000													8	9	8	9	394
10	6	H216	Diaphragm	E	20					7	8.000													7	8	7	8	115
5	6	H217	Diaphragm	E	20					57	4.000													57	4	57	4	431
4	7	H218	Diaphragm	E	20					57	11.000													57	11	57	11	474
5	6	H219	Diaphragm	E	20					48	5.000													48	5	48	5	364
4	7	H220	Diaphragm	E	20					48	5.000													48	5	48	5	396
11	6	H221	Diaphragm	E	20					5	6.000													5	6	5	6	91
100	5	H222	App. Notch	E	19					2	0.000		15.000											3	3	3	1	322
11	5	H223	Diaphragm	E	20					5	3.000													5	3	5	3	60
10	6	H224	Wing	E	20					11	7.000													11	7	11	7	174
10	6	H225	Wing	E	19					10	6.750		12.000											11	7	11	5	171
4	8	H226	Wing	E	20					12	5.000													12	5	12	5	133
11	6	H227	Wing	E	19					10	3.125		12.000											11	3	11	1	183
11	6	H228	Wing	E	20					11	7.000													11	7	11	7	191
4	8	H229	Wing	E	20					12	8.000													12	8	12	8	135
4	8	H230	Wing	E	19					12	5.000		16.000											13	9	13	7	145
4	8	H231	Wing	E	19					12	8.000		16.000											14	0	13	10	148
11	5	U200	Beam	E	10	S												5	5.375	2	11.125			13	10	13	8	157
2	4	U201	Beam	E	10	S												2	8.000	2	11.125			8	3	8	1	11
13	4	U202	Beam	E	13	S				2	11.125							2	8.000	2	11.125	2	8.000	11	11	11	8	101
12	4	U203	Beam	E	13	S				2	11.125							3	1.875	2	11.125	3	1.875	12	11	12	8	102
2	4	U204	Beam	E	10	S												3	1.875	2	11.125			9	3	9	1	12
11	5	U205	Beam	E	10	S												5	8.250	2	11.125			14	4	14	2	163
17	4	U206	Beam	E	13	S				2	11.125							3	4.875	2	11.125	3	4.875	13	5	13	2	150
4	4	U207	Beam	E	10	S												3	4.875	2	11.125			9	9	9	7	26
15	5	U208	Beam	E	10	S												6	1.125	2	11.125			15	1	14	11	233
4	4	U209	Beam	E	10	S												3	7.875	2	11.125			10	3	10	1	27
17	4	U210	Beam	E	13	S				2	11.125							3	7.875	2	11.125	3	7.875	13	1	13	8	155
14	5	U211	Beam	E	10	S												6	3.750	2	11.125			15	7	15	5	225
7	4	U212	Beam	E	13	S				2	11.125							3	10.875	2	11.125	3	10.875	14	5	14	2	66
1	5	U213	Beam	E	10	S												6	3.375	2	11.125			15	6	15	4	16
133	6	U214	Diaphragm	E	19	S				3	0.000	4	8.000											7	8	7	6	1498
66	5	U215	Diaphragm	E	10	S												3	10.500	2	4.750			10	2	10	0	688



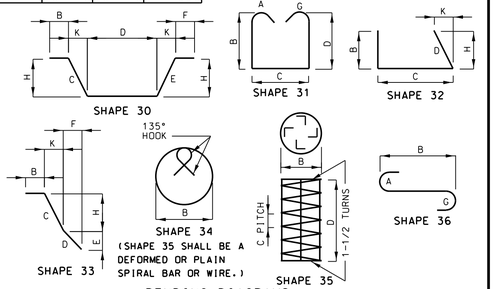
STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK HOOK A OR G	135° HOOK HOOK A OR G	135° HOOK APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.

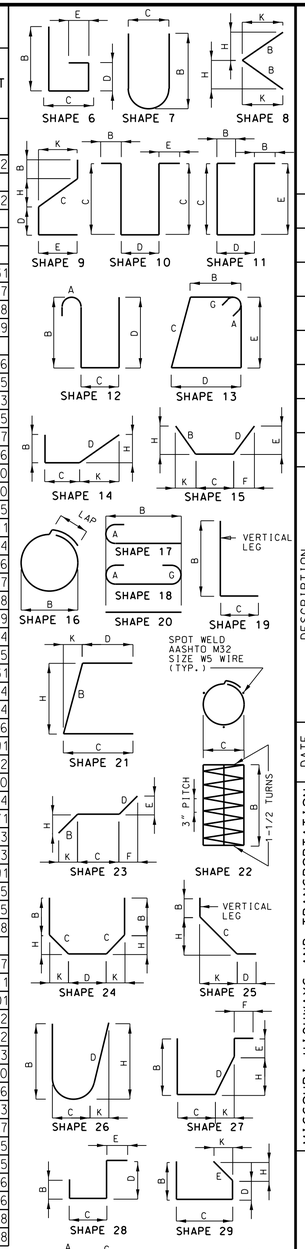


END HOOK DIMENSIONS				
		ALL GRADES		
BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.



BENDING DIAGRAMS



DATE PREPARED
1/9/2020

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	27

COUNTY
ST. LOUIS

JOB NO.
J6S1718

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8717

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

DRAFT FOR REVIEW ONLY

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

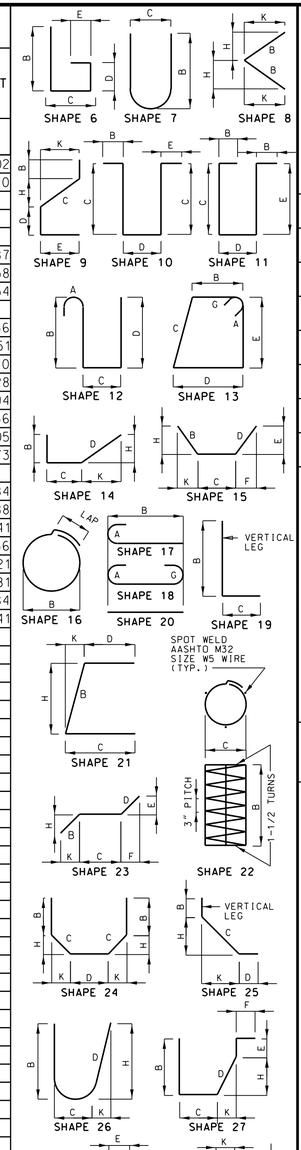
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BILL OF REINFORCING STEEL

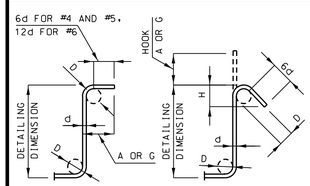
NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
66	6	U216	Diaphragm	E	19	S				3	1.375	2	11.125											6	1	5	11	587
24	5	V200	Beam	E	20					6	3.000													6	3	6	3	156
78	6	V201	Diaphragm	E	20					3	1.000													3	1	3	1	361
2	6	V202	Wing	E	20					6	11.000													6	11	6	11	21
20	6	V203	Wing	E	20			V	2	6	11.000													6	11	6	11	
										7	1.000													7	1	7	1	210
2	6	V204	Wing	E	20					7	8.000													7	8	7	8	23
20	6	V205	Wing	E	20			V	2	7	8.000													7	8	7	8	
										7	10.000													7	10	7	10	233
4	5	V206	Beam	E	20					5	2.000													5	2	5	2	22
			SUPERSTRUCTURE																									
			SLAB																									
110	5	S1	Slab	E	20					4	8.000													4	8	4	8	535
34	5	S2	Slab	E	20					57	8.000													57	8	57	8	2045
190	6	S3	Slab	E	20					45	10.000													45	10	45	10	13080
184	6	S4	Slab	E	20					53	5.000													53	5	53	5	14763
158	5	S5	Slab	E	20					57	0.000													57	0	57	0	9393
36	6	S6	Slab	E	20			V	1	3	11.000													3	11	3	11	
										52	1.000													52	1	52	1	1514
37	6	S7	Slab	E	20			V	1	2	7.000													2	7	2	7	
										52	1.000													52	1	52	1	1519
31	6	S8	Slab	E	20			V	1	3	2.000													3	2	3	2	
										44	5.000													44	5	44	5	1108
31	6	S9	Slab	E	20			V	1	3	2.000													3	2	3	2	
										44	5.000													44	5	44	5	1108
7	5	S10	Slab	E	20			V	1	4	0.000													4	0	4	0	
										12	3.000													12	3	12	3	59
7	5	S11	Slab	E	20			V	1	5	0.000													5	0	5	0	
										13	3.000													13	3	13	3	67
213	5	S12	Slab	E	20					13	8.000													13	8	13	8	3036
			SIDEWALK																									
113	4	S112	Sidewalk	E	20					10	3.000													10	3	10	3	774
115	4	S113	Sidewalk	E	20					6	3.000													6	3	6	3	480
3	4	S114	Sidewalk	E	20			V	1	2	8.000													2	8	2	8	
										7	9.000													7	9	7	9	10
4	4	S115	Sidewalk	E	20			V	1	2	6.000													2	6	2	6	
										9	7.000													9	7	9	7	16
2	4	S116	Sidewalk	E	20			V	1	2	6.000													2	6	2	6	
										5	0.000													5	0	5	0	5
2	4	S117	Sidewalk	E	20			V	1	2	5.000													2	5	2	5	
										4	9.000													4	9	4	9	5
11	4	S118	Sidewalk	E	20			V	1	3	0.000													3	0	3	0	
										6	8.000													6	8	6	8	36
22	4	S119	Sidewalk	E	20					20	9.000													20	9	20	9	305
36	4	S120	Sidewalk	E	20					29	8.000													29	8	29	8	713
11	4	S121	Sidewalk	E	20			V	1	2	7.000													2	7	2	7	
										6	2.000													6	2	6	2	32
7	4	S122	Sidewalk	E	20			V	1	2	7.000													2	7	2	7	
										4	9.000													4	9	4	9	17
14	4	S123	Sidewalk	E	20					21	6.000													21	6	21	6	201
7	4	S124	Sidewalk	E	20			V	1	3	0.000													3	0	3	0	
										5	3.000													5	3	5	3	19
117	4	S125	Sidewalk	E	28	S						8.000		14.500		12.000								2	11	2	9	215
233	4	S126	Sidewalk	E	28	S						8.000		10.750		12.000								2	7	2	5	376

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
117	4	S127	Sidewalk	E	28	S						8.000		13.000		12.000								2	9	2	7	202
11	4	S128	Sidewalk	E	21	S				13.625		8.000		12.000						13.625				2	10	2	8	20
			BARRIER CURB (MOD. TYPE D)																									
8	5	C1	Slip Form	E	20					10	5.000													10	5	10	5	87
4	5	C2	Slip Form	E	20					13	10.000													13	10	13	10	58
4	5	C3	Slip Form	E	20					12	10.000													12	10	12	10	54
162	5	R1	Barr. Curb	E	26					4	1.000	5.750								4	1.000	8.625		8	6	8	6	1436
162	5	R2	Barr. Curb	E	19	S				21.250		11.750												2	9	2	8	451
162	5	R3	Barr. Curb	E	27	S						11.750		16.625		5.500		12.000		16.250		3.250		3	10	3	8	620
48	5	R4	Barr. Curb	E	20					54	6.000													54	6	54	6	2728
162	5	R5	Barr. Curb	E	26					3	11.500	5.750								3	11.500	8.375		8	3	8	3	1394
162	5	R6	Barr. Curb	E	19	S				20.000		11.750												2	8	2	7	436
162	5	R7	Barr. Curb	E	27	S						11.750		15.250		5.500		12.000		15.000		3.000		3	9	3	7	605
14	5	R8	Barr. Curb	E	20					5	0.000													5	0	5	0	73
40	5	K1	Barr. Curb	E	19	S				4	1.000	5.000												4	6	4	5	184
40	5	K2	Barr. Curb	E	27	S						5.000	3	5.375		8.625				3	4.625	7.750		4	7	4	6	188
40	5	K3	Barr. Curb	E	27	S				3	8.000	12.125		5.875	3	2.250				5.750		1.125		8	4	8	2	341
24	5	K4	Barr. Curb	E	20					13	5.000													13	5	13	5	336
24	5	K5	Barr. Curb	E	20					12	10.000													12	10	12	10	321
40	5	K6	Barr. Curb	E	19	S				3	11.500	5.000												4	5	4	4	181
40	5	K7	Barr. Curb	E	27	S						5.000	3	5.375		7.125				3	4.625	7.750		4	6	4	5	184
40	5	K8	Barr. Curb	E	27	S				3	8.000	11.875		6.000	3	2.125				5.875		1.125		8	4	8	2	341

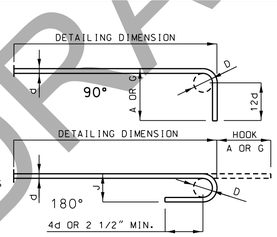


BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK A OR G	135° HOOK A OR G	135° HOOK APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
BAR SIZE	D (IN.)	ALL GRADES 180° HOOKS A OR G	ALL GRADES 180° HOOKS J	ALL GRADES 90° HOOKS A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

DRAFT FOR REVIEW ONLY

DATE PREPARED 1/9/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 28
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

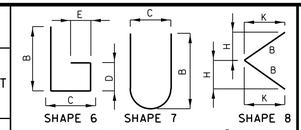
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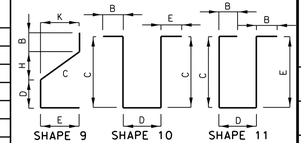
BILL OF REINFORCING STEEL

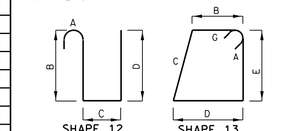
NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
BAR SIZE SUMMARY																												
TOTALS																												
	4			E																								4706
	5			E																								29219
	6			E																								45540
	7			E																								8153
	8			E																								1122
SLAB ON CONCRETE NU-GIRDER																												
	4			E																								4706
	5			E																								19201
	6			E																								45540
	7			E																								8153
	8			E																								1122
BARRIER CURB (MOD. TYPE D)																												
	5			E																								9819
SLIP-FORM OPTION																												
	5			E																								199

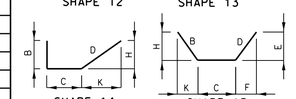
BILL OF REINFORCING STEEL

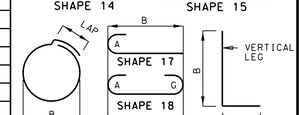
NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.

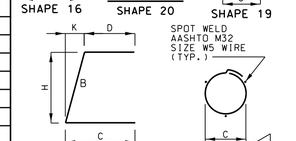


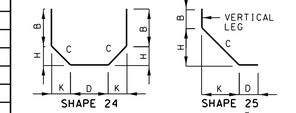


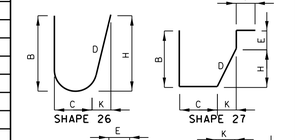


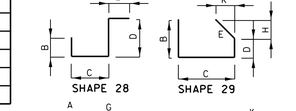


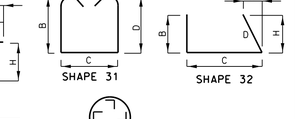


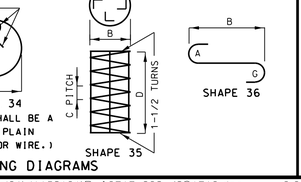




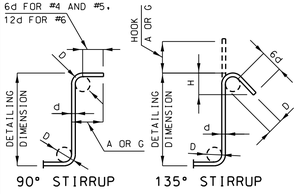






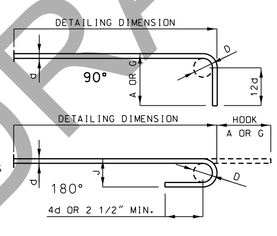


BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS			
GRADES 40 - 50 - 60 KSI			
BAR SIZE	D (IN.)	90° HOOK HOOK A OR G	135° HOOK HOOK A OR G	135° HOOK APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
		ALL GRADES		
BAR SIZE	D (IN.)	180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

DRAFT FOR TWM ONLY

DATE PREPARED 1/8/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 29
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

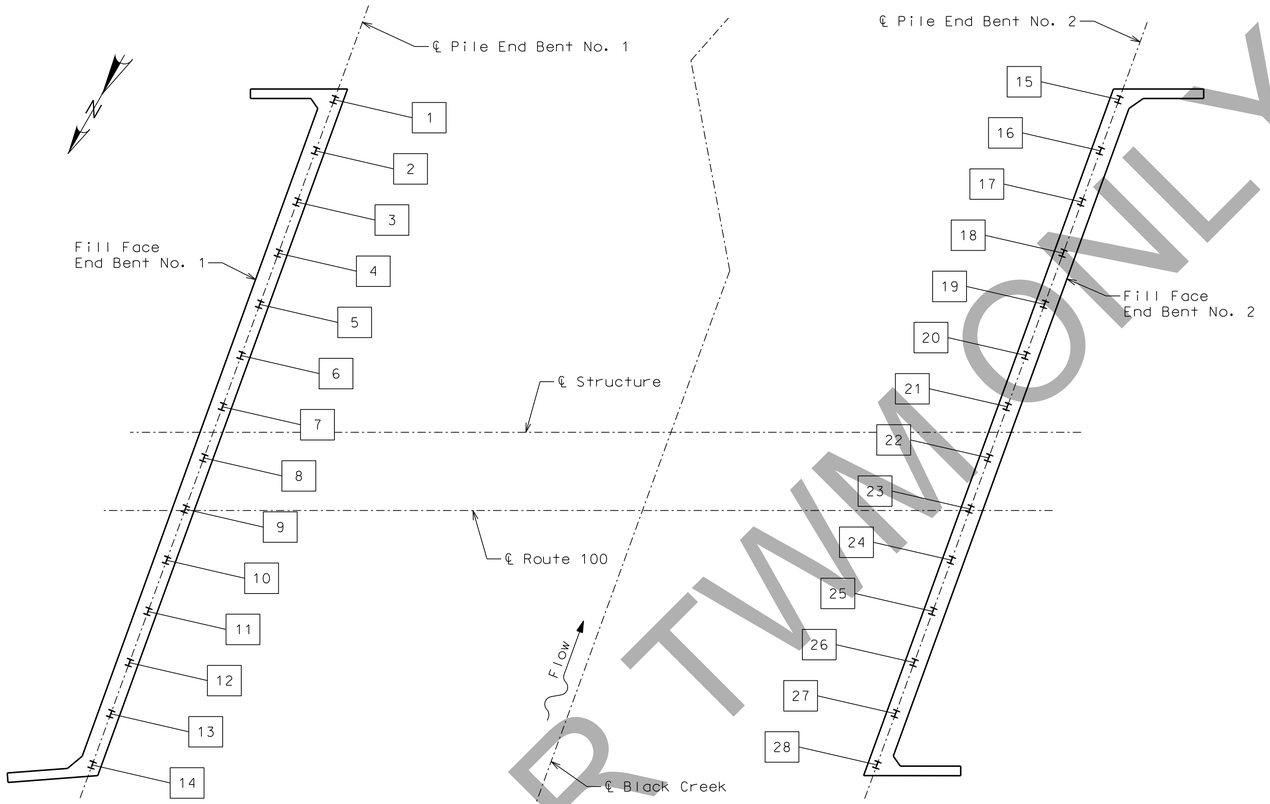
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.



PART PLAN SHOWING
PILE NUMBERING FOR RECORDING
AS-BUILT PILE DATA

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
					End Bent No. 1
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
					End Bent No. 2
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					

Note:
Indicate in remarks column:
A. Pile type and grade
B. Batter
C. Driven to practical refusal
D. PDA test pile
E. Minimum tip elevation controlled
(Use when actual blow count is less than PDA blow count due to minimum tip elevation requirement. A plus sign (+) shall be placed after the PDA nominal axial compressive resistance value indicating actual value is higher than PDA value.)

This sheet to be completed by MoDOT construction personnel.

AS-BUILT PILE DATA

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

DRAFT FOR TWMONLY

DATE PREPARED 1/9/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 30
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
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Certificate of Authority: 000856

Missouri Department of Transportation
Construction and Materials

BORING NO. T-18-31
Page 1 of 2

Job No.: J6S1718-A8717 **County:** St. Louis **Route:** 100
Design: A8717 **Skew:** 20 LA **Location:** Brentwood
Bent: 1 **Logged By:** Kasey Buckley **Operator:** Kenny Mathews
Station: 31+77 **Northing:** 1011989.8 **Date of Work:** 07/10/18-07/10/18
Offset: 22.4 R **Easting:** 867688.3 **Depth to Water:** 22.5
Elevation: 442.9 **Requested Northing:** 1012013.2 **Depth Hole Open:** 43.4
Requested Station: 31+69.9 **Requested Easting:** 867688.0 **Time Change:** At Time of Drilling
Requested Offset: 46.0 R **Equipment:** CME 45 ,Split-Spoon Sampler, NX
Requested Elevation: 446.9 **Location Note:** Inaccessible due to utilities
Drill No.: G-9577 **Hammer Efficiency:** 70% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.4' ASPHALT, Asphalt 0.4-1.0' CONCRETE, Concrete 1.0-8.0' CRUSHED AGGREGATE BASE, Base	440						
					0	3-3-3 (7)			
5			435						
		8.0-27.0' Dark gray brown, CLAYEY SILT scattered fine and coarse sand, scattered fine gravel, trace organics, medium stiff to stiff, moist			60	1-2-2 (5)		PP = 0.25 tsf	MC = 28.6% γ_{tot} = 122 pcf(1) LL = NP
10			430						
					47	1-2-3 (6)		PP = 0.75 tsf	
15			425						
					100	1-1-4 (6)		PP = 0.50 tsf	MC = 23.9% γ_{tot} = 126 pcf(1)
20			420						
25					80	2-2-3 (6)		PP = 1.00 tsf	MC = 23.9% γ_{tot} = 126 pcf(1)
		27.0-31.7' Dark gray, SAND abundant fine gravel, very loose, wet, fine and coarse grained, poorly graded	415						
30					27	3-0-0 (0)			
		31.7-43.4' Limestone, gray, thick bedded, moderately hard to hard, moderately weathered to slightly weathered, fine grained	410		94 (24)		Qu Test Results UCS = 743 ksf MC = 0.0%		
35									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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Missouri Department of Transportation
Construction and Materials

BORING NO. T-18-31
Page 2 of 2

Job No.: J6S1718-A8717 **County:** St. Louis **Route:** 100
Design: A8717 **Skew:** 20 LA **Location:** Brentwood
Bent: 1 **Logged By:** Kasey Buckley **Operator:** Kenny Mathews
Station: 31+77 **Northing:** 1011989.8 **Date of Work:** 07/10/18-07/10/18
Offset: 22.4 R **Easting:** 867688.3 **Depth to Water:** 22.5
Elevation: 442.9 **Requested Northing:** 1012013.2 **Depth Hole Open:** 43.4
Requested Station: 31+69.9 **Requested Easting:** 867688.0 **Time Change:** At Time of Drilling
Requested Offset: 46.0 R **Equipment:** CME 45 ,Split-Spoon Sampler, NX
Requested Elevation: 446.9 **Location Note:** Inaccessible due to utilities
Drill No.: G-9577 **Hammer Efficiency:** 70% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
35		31.7-43.4' Limestone, gray, thick bedded, moderately hard to hard, moderately weathered to slightly weathered, fine grained *(continued)*	405				γ_{moist} = 145.1 pcf		
40					100 (88)		Qu Test Results UCS = 1450 ksf MC = 0.0% γ_{moist} = 156.9 pcf		
		Bottom of borehole at 43.4 feet.	400						

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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DRAFT FOR TWM ONLY

Note:

For locations of borings, see Sheet No. 1.

BORING DATA

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

DATE PREPARED 1/9/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 31
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-5300
Certificate of Authority: 000856

Missouri Department of Transportation
Construction and Materials

BORING NO. 101-A
Page 1 of 1

Job No.: J6S1718-A8717
Design: A8717
Bent: 1
Station: 31+46.8
Offset: 75.0 L
Elevation: 441.9
Requested Station: 31+69.9
Requested Offset: 46.0 L
Requested Elevation: 447.3
Drill No.: G-9400

County: St. Louis
Skew: 20 LA
Logged By: Kasey Buckley
Northing: 1011926.5
Easting: 867741.2
Requested Northing: 1011926.1
Requested Easting: 867717.7
Equipment: Mobile B-31 ,
Location Note: Inaccessible due to utilities
Hammer Efficiency:

Route: 100
Location: Brentwood
Operator: Justin Reynolds
Date of Work: 07/11/18-07/11/18
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-26.3' Brown gray, CLAYEY SILT with fine sand, trace organics, moist	440						
5			435						
10			430						
15			425						
20			420						
25		26.3-26.8' Limestone, gray, moderately weathered, fine grained Bottom of borehole at 26.8 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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Missouri Department of Transportation
Construction and Materials

BORING NO. 202-A
Page 1 of 1

Job No.: J6S1718-A8717
Design: A8717
Bent: 2
Station: 32+82.3
Offset: 30.6 R
Elevation: 442.0
Requested Station: 32+79.0
Requested Offset: 46.0 R
Requested Elevation: 441.2
Drill No.: G-9400

County: St. Louis
Skew: 20 LA
Logged By: Kasey Buckley
Northing: 1011898.4
Easting: 867570.3
Requested Northing: 1011944.8
Requested Easting: 867603.0
Equipment: Mobile B-31 ,
Location Note: Inaccessible due to utilities
Hammer Efficiency:

Route: 100
Location: Brentwood
Operator: Justin Reynolds
Date of Work: 07/11/18-07/11/18
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-23.8' Brown gray, CLAYEY SILT with fine sand, trace organics, moist	440						
5			435						
10			430						
15			425						
20			420						
		23.8-24.3' Limestone, gray, moderately weathered, fine grained Bottom of borehole at 24.3 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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DRAFT FOR TWM ONLY

Note:

For locations of borings, see Sheet No. 1.

BORING DATA

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

DATE PREPARED 1/9/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 32
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

Missouri Department of Transportation
Construction and Materials

BORING NO. T-18-32
Page 1 of 2

Job No.: J6S1718-A8717 **County:** St. Louis **Route:** 100
Design: A8717 **Skew:** 20 LA **Location:** Brentwood
Bent: 2 **Logged By:** Kasey Buckley **Operator:** Kenny Mathews
Station: 32+85.5 **Northing:** 1011834.8 **Date of Work:** 07/11/18-07/11/18
Offset: 74.0 L **Easting:** 867613.5 **Depth to Water:** 17.5
Elevation: 440.3 **Requested Northing:** 1011857.7 **Depth Hole Open:** 38.9
Requested Station: 32+79 **Requested Easting:** 867632.7 **Time Change:** 4 hours
Requested Offset: 46.0 L **Equipment:** CME 45 ,Split-Spoon Sampler, Shelby Tube, NX
Requested Elevation: 446.4 **Location Note:** Inaccessible due to utilities
Drill No.: G-9577 **Hammer Efficiency:** 70% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0	0.0-1.2' TOPSOIL	440						
	1.2-2.5' GRAVEL, fine grained						PP = 0.50 tsf	
5	2.5-11.5' Brown, CLAYEY SILT with fine sand, trace organics, stiff, moist	435		64			PP = 1.50 tsf Torvane = 0.40 tsf	MC = 19.1% γ_{tot} = 131 pcf(1) LL = NP
				0	8-8-2 (12)			
10		430		36			PP = 0.25 tsf Torvane = 0.25 tsf	MC = 19.7% γ_{tot} = 131 pcf(1) LL = NP
	11.5-12.5' Gray, GRAVEL, fine grained			93	2-1-0 (1)		PP = 0.00 tsf	MC = 37.6% γ_{tot} = 114 pcf(1) LL = NP
15	12.5-23.8' Brown, CLAYEY SILT scattered fine sand, few organics, very soft to medium stiff, moist	425		44		Direct Shear Results Phi' = 31° c' = 242 psf MC = 26.9% γ_{moist} = 120.2 pcf	PP = 0.00 tsf Torvane = 0.15 tsf	MC = 28.1% γ_{tot} = 122 pcf(1) LL = NP
				13	3-3-2 (6)			
20		420		28		Direct Shear Results Phi' = 36° c' = 370 psf MC = 28.9% γ_{moist} = 125.7 pcf		LL = NP
				80	1-1-4 (6)			MC = 32.3% γ_{tot} = 118 pcf(1) LL = NP
25	23.8-28.5' Tree/Organics	415		33	39-9-8 (20)			
				43	6-31-46/0.4'			
30	28.5-28.9' Limestone, whitish gray, highly weathered, fine grained	410		100 (26)		Qu Test Results UCS = 948 ksf MC = 0.0% γ_{moist} = 165.7 pcf		
	28.9-38.9' Limestone, whitish gray, thin bedded, moderately hard, moderately weathered, fine grained							
35								

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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Missouri Department of Transportation
Construction and Materials

BORING NO. T-18-32
Page 2 of 2

Job No.: J6S1718-A8717 **County:** St. Louis **Route:** 100
Design: A8717 **Skew:** 20 LA **Location:** Brentwood
Bent: 2 **Logged By:** Kasey Buckley **Operator:** Kenny Mathews
Station: 32+85.5 **Northing:** 1011834.8 **Date of Work:** 07/11/18-07/11/18
Offset: 74.0 L **Easting:** 867613.5 **Depth to Water:** 17.5
Elevation: 440.3 **Requested Northing:** 1011857.7 **Depth Hole Open:** 38.9
Requested Station: 32+79 **Requested Easting:** 867632.7 **Time Change:** 4 hours
Requested Offset: 46.0 L **Equipment:** CME 45 ,Split-Spoon Sampler, Shelby Tube, NX
Requested Elevation: 446.4 **Location Note:** Inaccessible due to utilities
Drill No.: G-9577 **Hammer Efficiency:** 70% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
35	28.9-38.9' Limestone, whitish gray, thin bedded, moderately hard, moderately weathered, fine grained *(continued)*	405		100 (68)		Qu Test Results UCS = 480 ksf MC = 0.0% γ_{moist} = 157.4 pcf		
	Bottom of borehole at 38.9 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
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DRAFT FOR TWM ONLY

DATE PREPARED 1/9/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 33
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8717

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

Note:
For locations of borings, see Sheet No. 1.

BORING DATA

Detailed December 2019
Checked December 2019

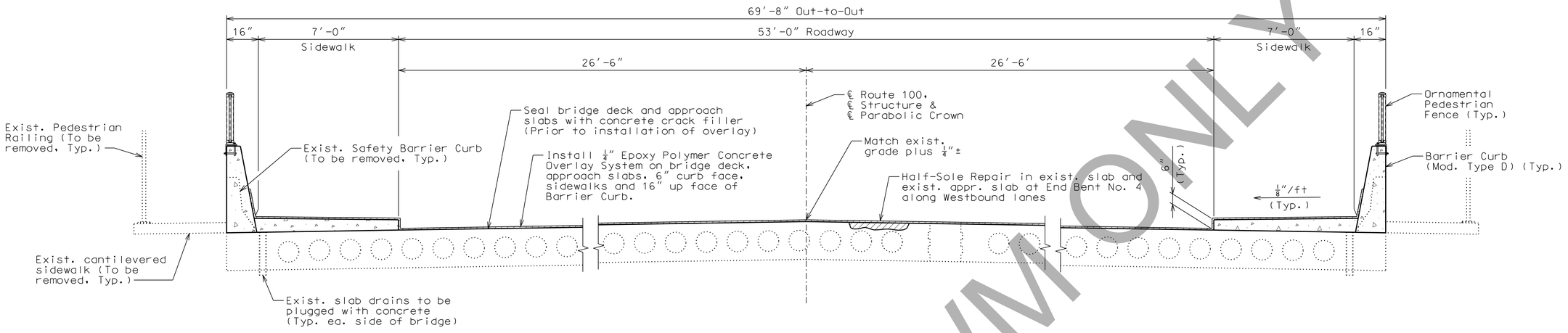
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 33 of 33

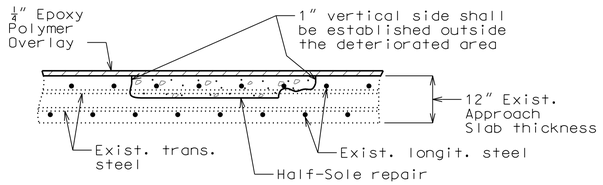
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

U.I.P. OVERLAY AND REHABILITATE EXISTING (42'-49'-42') CONTINUOUS VOIDED SLAB SPANS

SEC/SUR 28 & 29 TWP 45N RGE 6E



PART SECTION THRU SLAB



HALF-SOLE REPAIR

(Approach Slab shown, repair on bridge deck similar, but 22" deep Voided Slab)

(Engineer to field verify locations and Limits of Half-Sole Repair)

ESTIMATED QUANTITIES

Item	Unit	Total
Partial Removal of Existing Bridge Decks - Non Composite (Cant. Sidewalk)	Sq. Ft.	1220
Curb Removal	Lin. Ft.	271
Removal of Existing Expansion Joint Seal or Sealant	Lin. Ft.	134
Removal of Pedestrian Railing	Lin. Ft.	291
Partial Removal & Replacement of Approach Slab	Sq. Ft.	676
Ornamental Pedestrian Fence (30 in.)	Lin. Ft.	269
Ornamental Pedestrian Fence (74.5 in.)	Lin. Ft.	37
Epoxy Polymer Concrete Overlay	Sq. Yd.	1298
Barrier Curb (Mod. Type D)	Lin. Ft.	271
Sidewalk (Bridges)	Sq. Ft.	1897
Repairing Concrete Deck (Half-Soling)	Sq. Ft.	50
Concrete Crack Filler	Sq. Yd.	1032
Open Cell Foam Joint Seal	Lin. Ft.	134

GENERAL NOTES:

DESIGN SPECIFICATIONS:
1989 - AASHTO LFD and 1990 Interim Specifications (Existing Construction)
1983 - AASHTO Guide Specifications for Seismic Design (Existing Construction)
2002 AASHTO LFD (17th Ed.) Standard Specifications (New Construction)
Seismic Performance Category B
Bridge Deck Rating = 7

DESIGN LOADING:
HS20-44 Modified
24,000 lb. Tandem Axle
Future Wearing Surface = 35 lb/sf
Earth = 120 lb/cf, Equivalent fluid pressure = 45 lb/cf

DESIGN UNIT STRESSES:

Class B1 Concrete (Barrier Curb (Mod. Type D))	f'c = 4,000 psi.
Class B2 Concrete (Sidewalk)	f'c = 4,000 psi.
Reinforcing Steel (Grade 60)	fy = 60,000 psi.

JOINT FILLER:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion joint filler, except as noted.

REINFORCING STEEL:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Bars bonded in old concrete, not removed, shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

CONCRETE CRACK FILLER:
The cost of sealing the bridge deck and approach slabs with Low Viscosity Polymer Sealer, including labor, materials, equipment and any other incidental work, will be considered completely covered by the contract unit price for Concrete Crack Filler.

Measurement of the concrete crack filler is to the nearest square yard, measured from the inside face of sidewalk to inside face of sidewalk from end of approach slab to end of approach slab.

EPOXY POLYMER CONCRETE OVERLAY:
The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the epoxy polymer concrete. The cost of furnishing and installing the overlay, including labor, materials, equipment and any other incidental work, will be considered completely covered by the contract unit price for Epoxy Polymer Concrete Overlay.

Measurement of the epoxy polymer concrete overlay is to the nearest square yard, measured from the inside face of barrier curb to inside face of barrier curb, including the 6" curb face of sidewalk and 16" up face of barrier curbs, from end of approach slab to end of approach slab.

TRAFFIC:
Traffic to be maintained on structure. For details of staged construction, see roadway plans for traffic control.

MISCELLANEOUS:
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

Roadway surface adjacent to ends of Bridge Approach Slabs to match top of Bridge Approach Slab elevation (Roadway Item).

Longitudinal dimensions are based on the original design plans.

REPAIRS TO BRIDGE: ROUTE 100 OVER DEER CREEK

STATE ROAD FROM GLENDALE TO BRENTWOOD

ABOUT 0.2 MILES EAST OF ROCK HILL RD.

BEGINNING STATION 142+31.00 (MATCH EXISTING)

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DATE PREPARED 1/22/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A48441

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-5300
Certificate of Authority: 000856

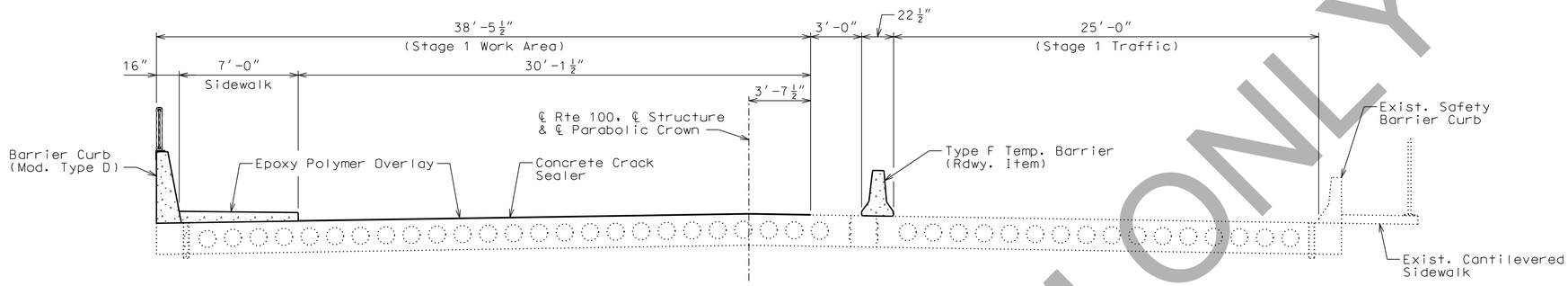
PART SECTION, GENERAL NOTES AND ESTIMATED QUANTITIES

Detailed December 2019
Checked December 2019

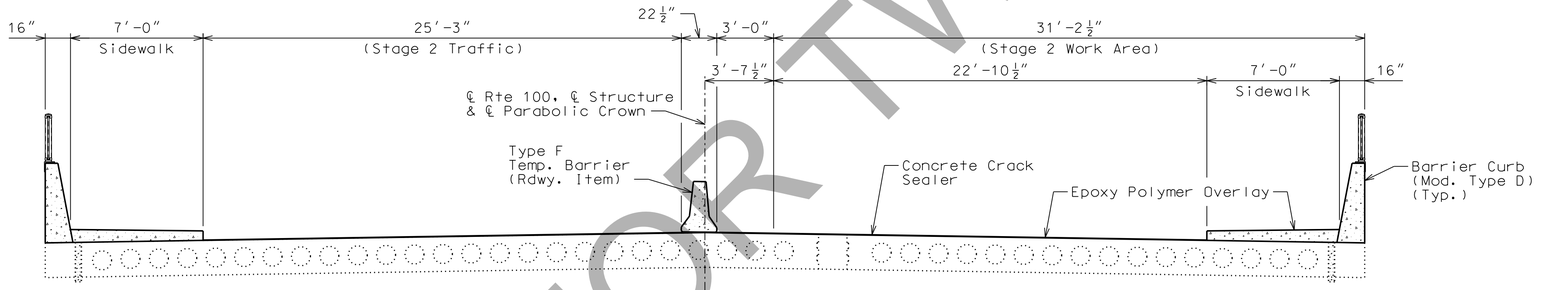
Note: This drawing is not to scale. Follow dimensions.

STD. 617.20
STD. 706.35

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STAGE 1 CONSTRUCTION



STAGE 2 CONSTRUCTION

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CONSTRUCTION STAGING

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

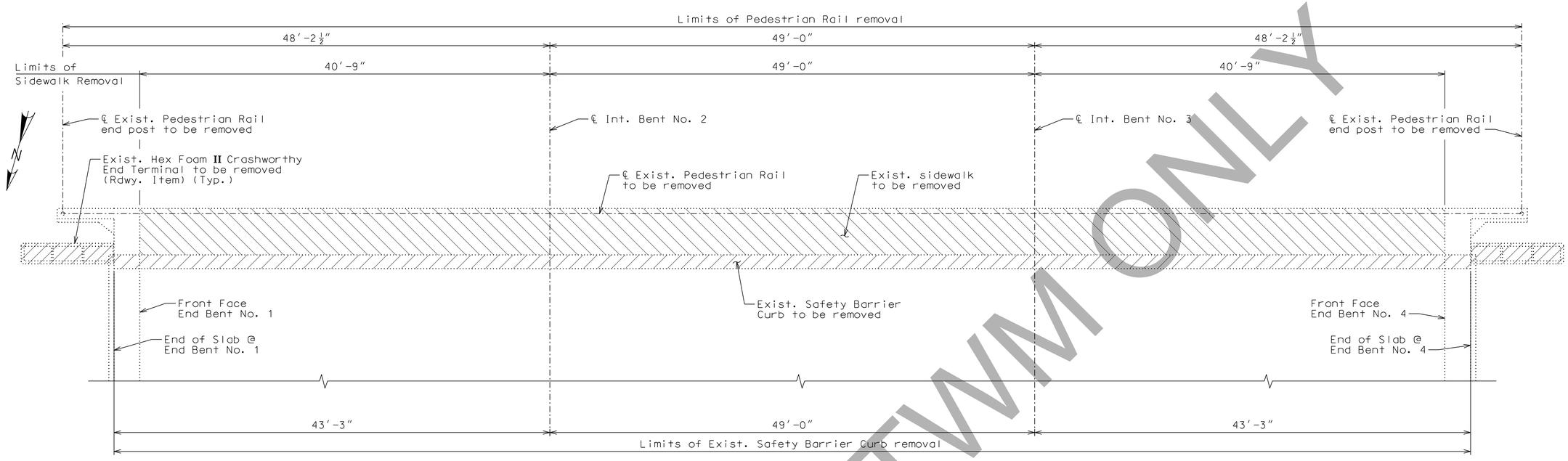
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ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	2
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A48441

DESCRIPTION

DATE

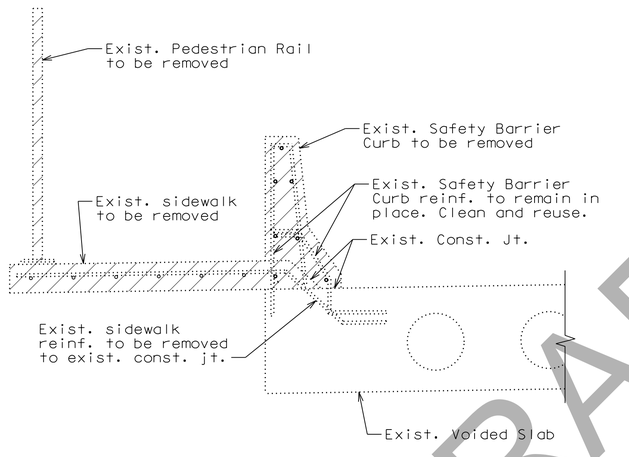
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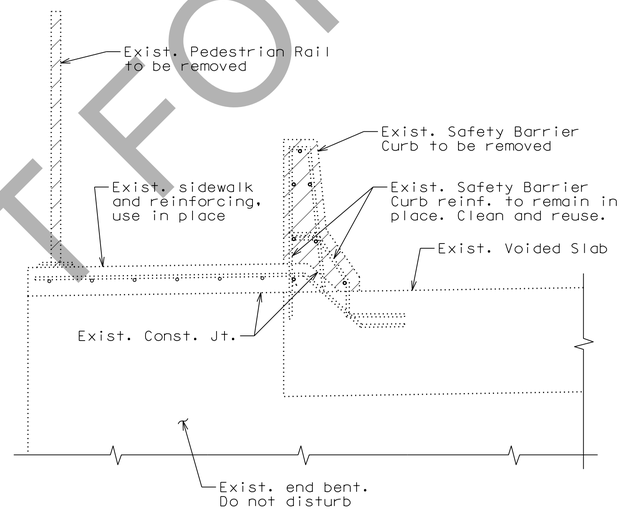
PART PLAN OF SLAB SHOWING REMOVALS

(Left sidewalk shown, right sidewalk similar)
(Pedestrian rail not shown for clarity)



TYPICAL SECTION OF REMOVALS

(Left sidewalk shown, right sidewalk similar)



TYPICAL SECTION OF REMOVALS AT END BENT

Notes:

The cost of removal of the existing pedestrian rails to the limits shown will be considered completely covered by the contract unit price for Removal of Pedestrian Railing, per linear foot.

The cost of removal of the existing sidewalks to the limits shown will be considered completely covered by the contract unit price for Partial Removal of Existing Bridge Decks - Non Composite (Cant. Sidewalk), per square foot.

The cost of removal of the existing safety barrier curb to the limits shown will be considered completely covered by the contract unit price for Curb Removal, per linear foot.

PEDESTRIAN RAILING, SIDEWALK AND BARRIER REMOVALS

DRAFT FOR TWM ONLY

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

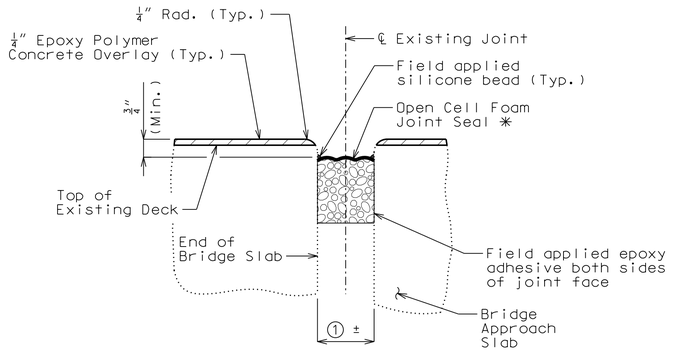
DATE PREPARED	1/22/2020
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	3
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A48441

DESCRIPTION

DATE

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SECTION THRU EXPANSION JOINT AT END BENTS NO. 1 & 4

* Manufacturer's recommended size

Notes:

Installation gaps for the open cell foam expansion joint are based on field measurements of the existing hot pour joint taken at 80°F. The engineer shall verify existing joint gaps prior to removal to ensure correct installation gap.

Open cell foam joint seal size (width and depth) shall be determined by the manufacturer. Manufacturer recommended seal size shall meet the movement and installation gap requirements and skew effect.

The open cell foam joint seal shall be installed according to the manufacturer's recommendations.

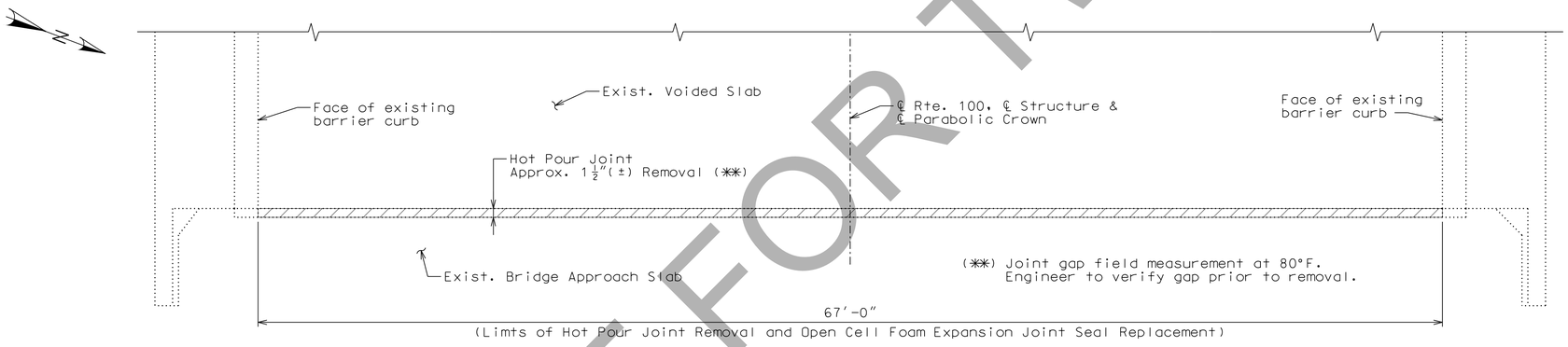
② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

③ MoDOT construction personnel will record the manufacturer and seal system (designated name) that was used.

Measurement of the Open Cell Foam Joint Seal is to the nearest linear foot to the limits shown.

Cost of furnishing and installing the expansion joints, complete in place, will be considered completely covered by the contract unit price for Open Cell Foam Joint Seal per linear foot.

The cost of removal of the existing hot pour joint to the limits shown will be considered completely covered by the contract unit price for Removal of Existing Expansion Joint Seal or Sealant.



PART PLAN SHOWING JOINT REMOVAL

(End Bent No. 1 shown, End Bent No. 2 similar)

Movement Parallel to Rdwy	Movement Normal to Joint	Allowed Installation Gap ① Normal to Joint at Roadway Surface @ Air/Surface Temperature ②						Manufacturer ③	Seal System ③ (Designated Name)
		@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F		
7/8"	5/8"	1 11/16"	1 5/8"	1 5/8"	1 9/16"	1 1/2"	1 7/16"		

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DETAILS OF OPEN CELL FOAM EXPANSION JOINT SEAL AT END BENTS NO. 1 & 4

Note: This drawing is not to scale. Follow dimensions.

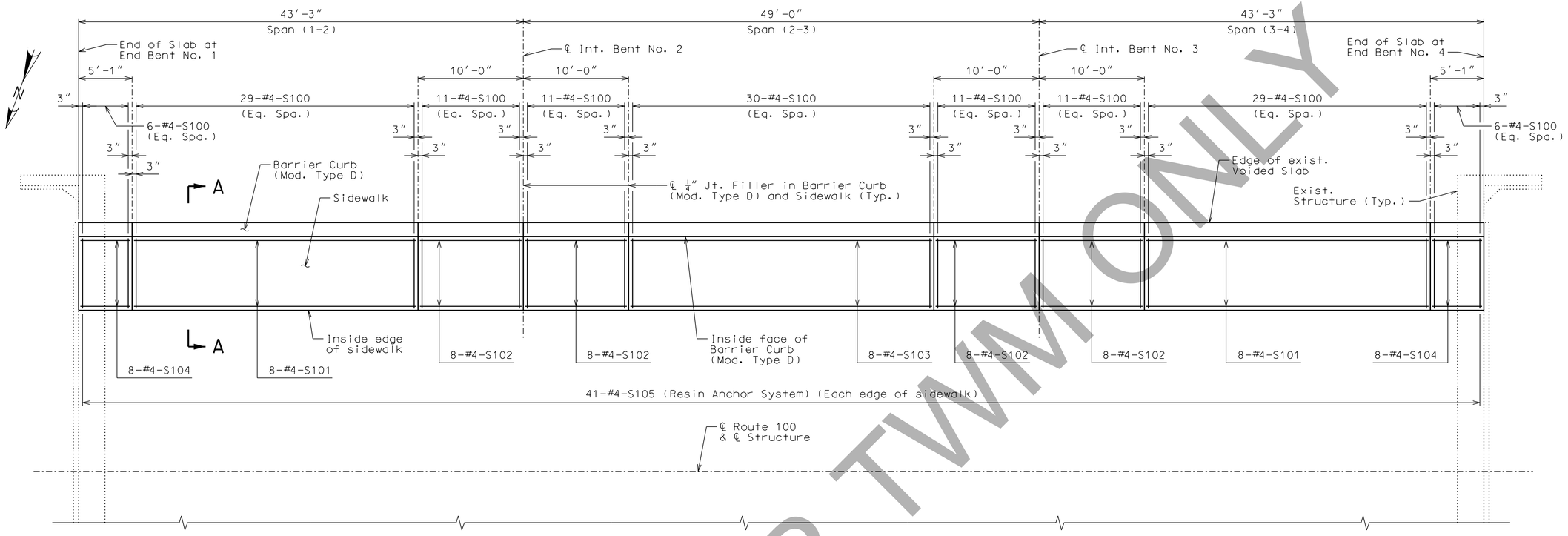
Detailed December 2019
Checked December 2019

DATE PREPARED	1/22/2020
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	4
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A48441

DESCRIPTION | DATE

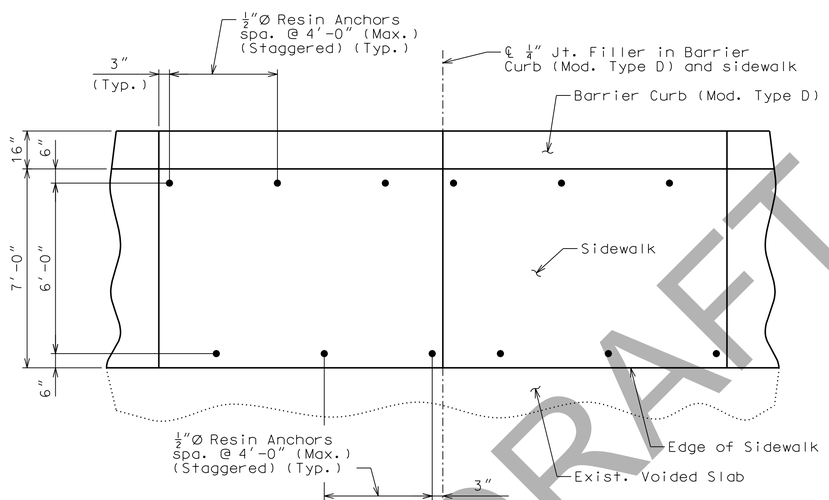
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
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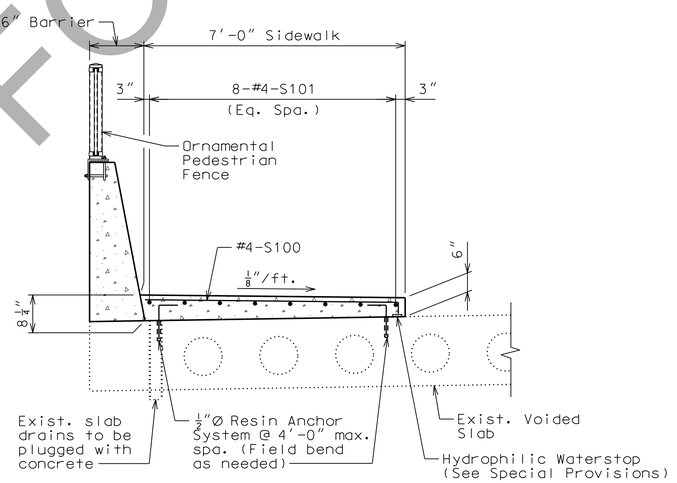


PART PLAN OF SLAB SHOWING SIDEWALK

(Left sidewalk shown, right sidewalk similar)



PART PLAN OF SIDEWALK SHOWING RESIN ANCHOR LAYOUT



SECTION A-A

(Left sidewalk shown, right sidewalk similar)

Notes:

Dimensions shown are horizontal and measured along the inside face of Barrier Curb (Mod. Type D).

All exposed edges of sidewalk shall have either a 1/2″ radius or a 3/8″ bevel, unless otherwise noted.

Payment for all concrete, reinforcement, and waterstop, complete in place, will be completely covered by the contract unit price for Sidewalk (Bridges), per square foot.

Concrete in the sidewalk shall be Class B-2.

Measurement of the sidewalk is to the nearest square foot for each structure, measured horizontally from the inside face of barrier curb to the inside edge of sidewalk and from end of slab to end of slab.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of plugging existing slab drains with concrete will be considered completely covered by the contract unit price for Sidewalk (Bridges), per square foot.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Sidewalk (Bridges).

The minimum embedment depth in concrete with f′c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039, but shall not be less than 5″.

Contractor to verify location of the existing slab void tubes and reinforcing prior to installing resin anchor system. Resin anchors shall be shifted to clear existing slab voids to maintain a minimum clearance of 3″.

An epoxy coated #4-S105 Grade 60 reinforcing bar shall be substituted for the 1/2″ dia. threaded rod.

SIDEWALK DETAILS

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Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

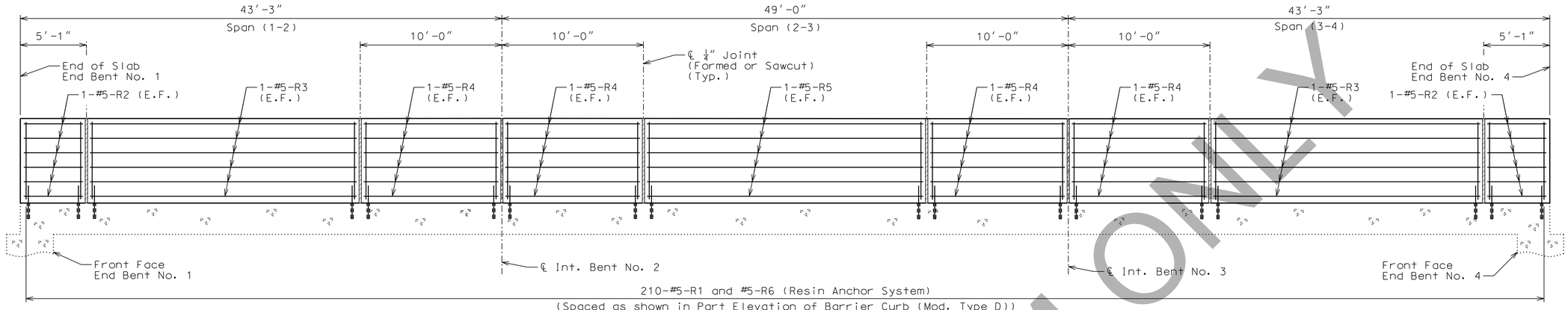
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ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	5
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A48441

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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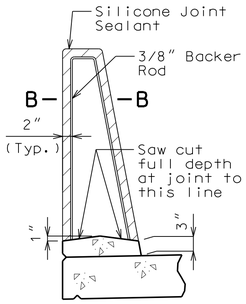


ELEVATION OF BARRIER CURB (MOD. TYPE D)

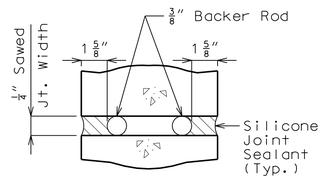
(Left barrier curb shown, right barrier curb similar)

Sidewalk not shown for clarity.

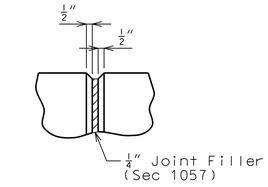
Longitudinal dimensions are horizontal.



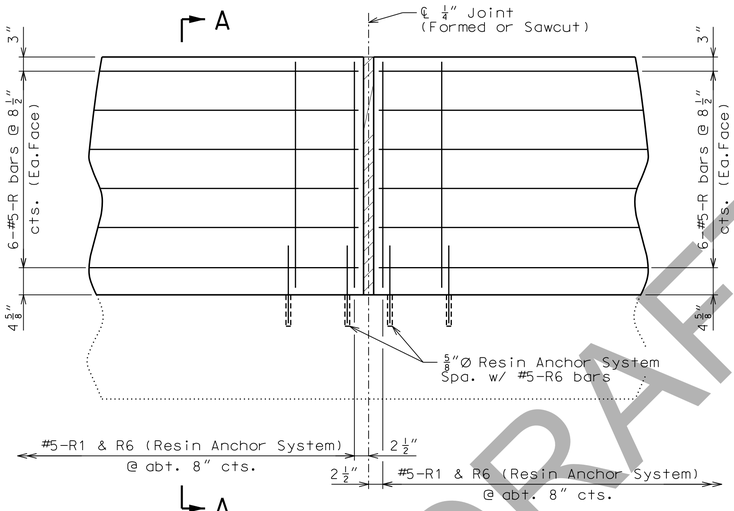
SECTION THRU
SAW CUT JOINT



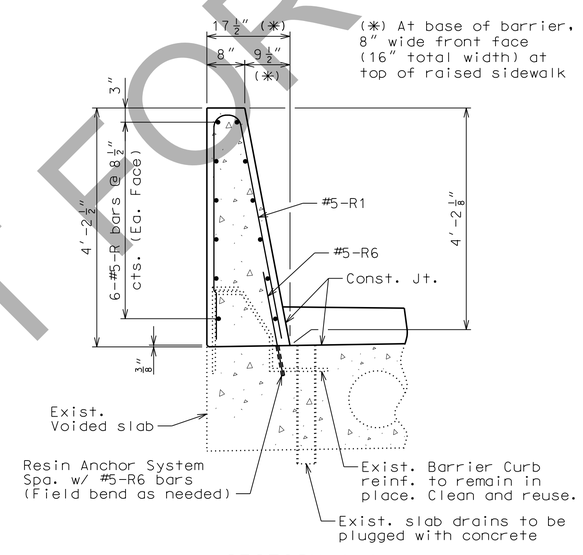
SECTION B-B



PART ELEVATION
AT FORMED JOINT



PART ELEVATION OF BARRIER CURB (MOD. TYPE D)



SECTION A-A

(Pedestrian Fence not shown for clarity)

Use a minimum lap of 3′-1″ for #5 horizontal safety barrier curb bars.

The cross-sectional area above the slab = 4.49 sq. ft.

General Notes

Top of barrier curb (Mod. Type D) shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

All exposed edges of barrier curb (Mod. Type D) shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Barrier Curb (Mod. Type D) per linear foot.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Barrier Curb (Mod. Type D).

The minimum embedment depth in concrete with f′c = 4000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5″.

Concrete in the barrier curb (Mod. Type D) shall be Class B-1.

Measurement of barrier curb (Mod. Type D) is to the nearest linear foot, measured along the outside top of slab from end of slab to end of slab.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

An epoxy coated #5-R6 Grade 60 reinforcing bar shall be substituted for the 5/8″ dia. threaded bars.

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CONVENTIONAL-FORMED BARRIER CURB (MOD. TYPE D)

Detailed December 2019
Checked December 2019

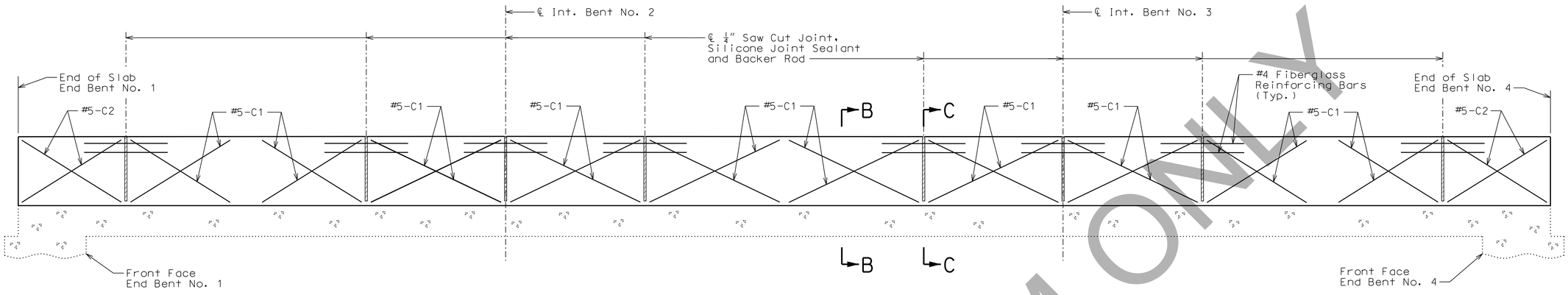
Note: This drawing is not to scale. Follow dimensions.

DATE PREPARED 1/22/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 6
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PROJECT NO.
BRIDGE NO. A48441

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

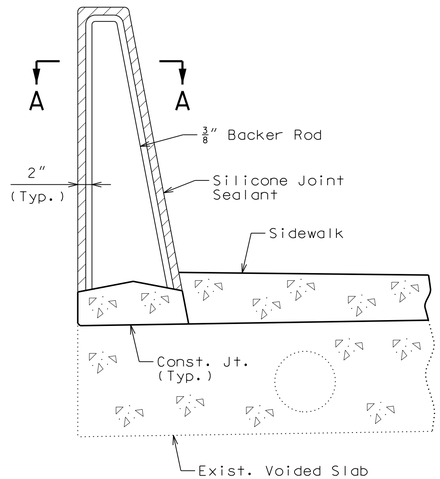
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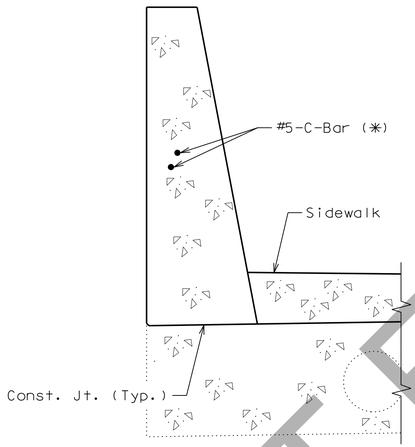
ELEVATION OF BARRIER CURB (MOD. TYPE D)

(Left barrier curb shown, right barrier curb similar)

Sidewalk not shown for clarity.

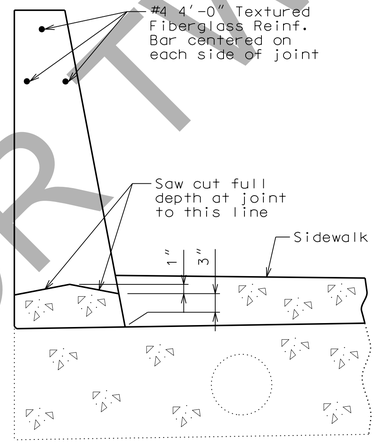


SECTION THRU SAW CUT JOINT

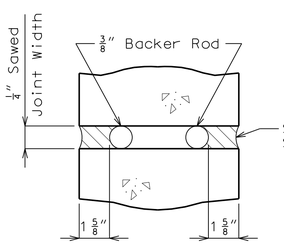


SECTION B-B

(*) Each side of Joint location



SECTION C-C



SECTION A-A

General Notes:

Top of barrier curb (Mod. Type D) shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

All exposed edges of barrier curb (Mod. Type D) shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Barrier Curb (Mod. Type D) per linear foot.

Concrete in the barrier curb (Mod. Type D) shall be Class B-1.

Measurement of barrier curb (Mod. Type D) is to the nearest linear foot for each structure, measured along the outside top of slab from end of slab to end of slab.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-form option, all sides of the barrier curb (Mod. Type D) shall have a vertically broomed finish and the curb top shall have a transversely broomed finish.

OPTIONAL SLIP-FORM BARRIER CURB (MOD. TYPE D)

Use R bars and resin anchor systems as shown for conventional-formed barrier curb.

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DATE PREPARED	1/22/2020
ROUTE	100
STATE	MO
DISTRICT	BR
SHEET NO.	7
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A48441

DESCRIPTION

DATE

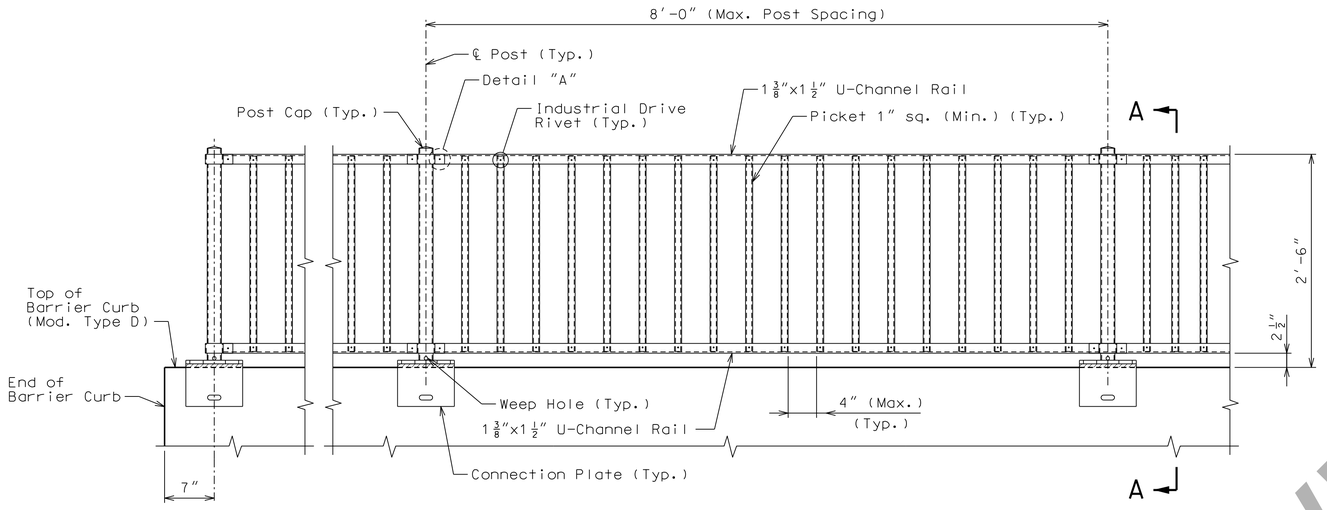
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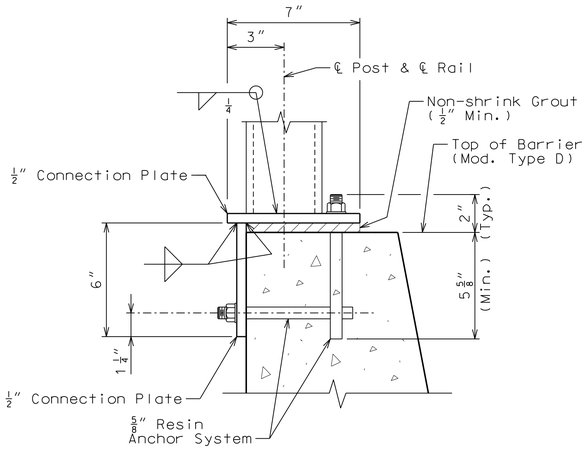
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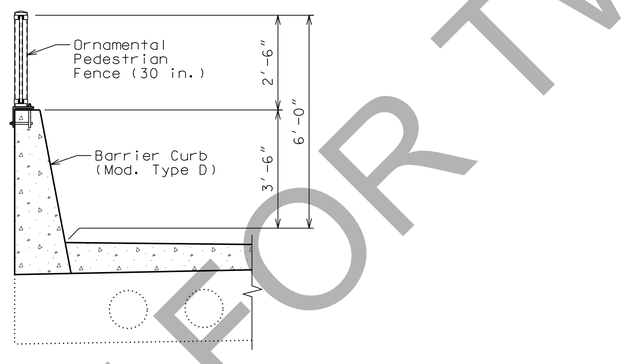
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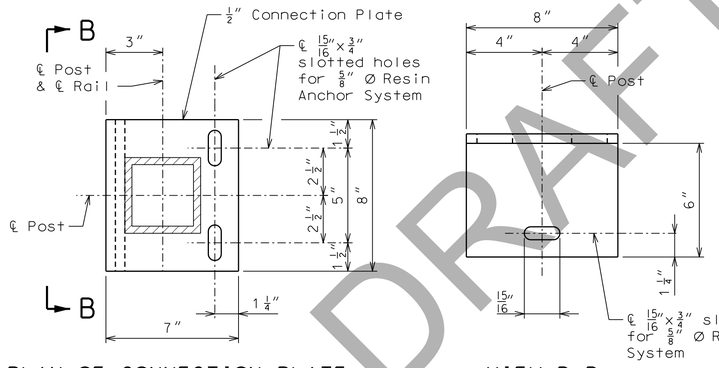
TYPICAL ELEVATION OF PEDESTRIAN FENCE



POST CONNECTION DETAIL

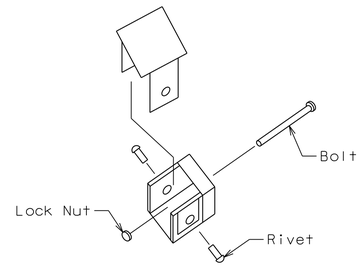


SECTION A-A



PLAN OF CONNECTION PLATE

VIEW B-B



DETAIL "A"

GENERAL NOTES:

Plans are for the design of the post spacing and base plate connection only. Railing, post and base plate details are shown schematically and are based on the preliminary information provided. Contractor shall submit detailed shop drawings and calculations based on a design in accordance with 2002 AASHTO LFD (17th ED.) Standard Specifications and signed and sealed by a professional engineer registered in the State of Missouri. Alternately, the fence design may comply with 2017 AASHTO LRFD 8th Edition. 50 pound/foot and 200 pound loading shall not be applied simultaneously.

All rail posts shall be vertical. Grout of 1/2" minimum thickness shall be placed under connection plates to provide for vertical alignment of rail posts and shall be in accordance with Sec 1066.

Dimensions of pedestrian fence are measured horizontally.

All connections from post to rail shall be bolted.

Install fence per manufacturer's recommendations.

Tubular steel shall be ASTM A-924/A924M with a minimum yield strength of 45 ksi.

U-Channel steel shall be ASTM A-653/A653M with a minimum yield strength of 50 ksi.

Connection plates shall be ASTM A709, Grade 36.

Rail/post brackets shall be die cast of zinc per ASTM B86-83Z 33521 and shall accommodate rail angles up to 30° in any direction. Rail/post bracket shall have a minimum shear strength of 3,000 lbs and holding strength of 2,200 lbs. Bracket to have security cover.

Post caps shall be cast aluminum, malleable iron, or formed steel.

Industrial drive rivets shall have a minimum shear strength of 1,500 lbs and holding power of 1,100 lbs.

Galvanized tubular steel, U-Channels and base plates per ASTM A653/A653M with G90 zinc coating, 0.90 oz/sf.

All fence elements shall be powder coated with zinc enriched epoxy primer powder coat of 2-4 mils and ultra polyester finish TGIC powder coat of 2-4 mils. Finish color shall be black.

Centerline of post may be field adjusted to miss barrier joints.

Notes:

Payment for furnishing, galvanizing, finishing and erecting the ornamental pedestrian fence (30 in.), complete with anchor bolts and washers, will be considered completely covered by the contract unit price for Ornamental Pedestrian Fence (30 in.) per linear foot.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 5/8".

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered covered by the contract unit price for Ornamental Pedestrian Fence (30 in.).

The contractor shall field verify the location of the installed post anchoring systems prior to fabrication of the ornamental fence.

For Details of Barrier Curb (Mod. Type D), see Sheet No. 6.

For Ornamental Pedesetrian Fence (74.5 in.) Details along existing End Bents, see Sheet No. 9.

DRAFT FOR TWM ONLY

DATE PREPARED 1/22/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 8
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A48441

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

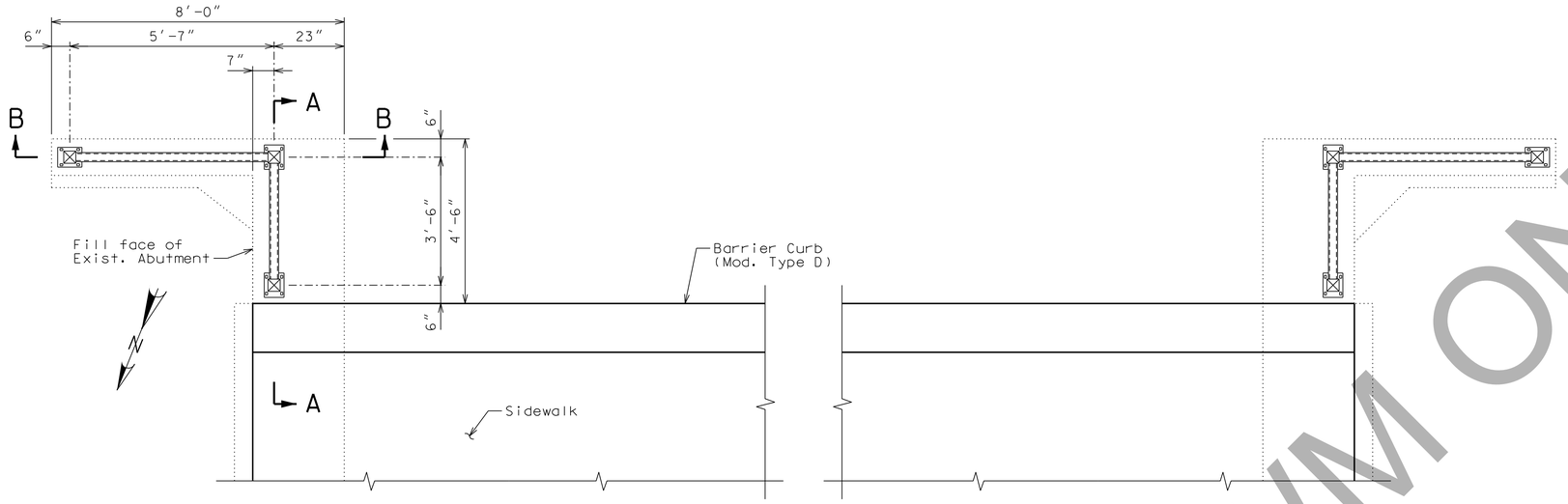
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

ORNAMENTAL PEDESTRIAN FENCE (30 IN.) DETAILS

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

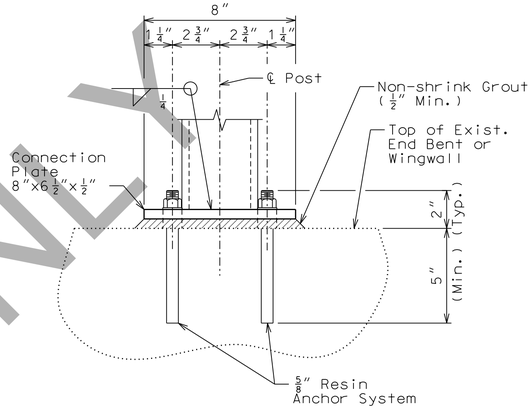
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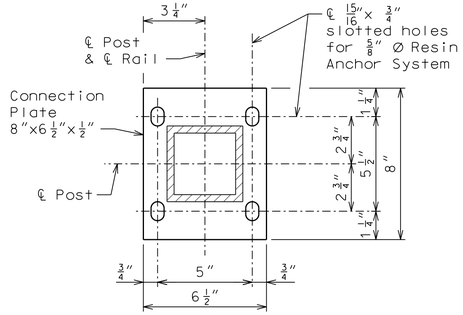
PART PLAN SHOWING PEDESTRIAN FENCE (74.5 IN.) ON EXISTING END BENT AND WINGWALL

(Left side of bridge shown, right side similar)

(Dimensions similar at End Bent 1 & 4)



POST CONNCETION DETAIL



PLAN OF CONNECTION PLATE

SECTION A-A

SECTION B-B

Notes:

For General Notes covering both Ornamental Pedestrian Fences, see Sheet No. 8.

Payment for furnishing, galvanizing, finishing and erecting the pedestrian fence (74.5 in.), complete with anchor bolts and washers, will be considered completely covered by the contract unit price for Ornamental Pedestrian Fence (74.5 in.) per linear foot.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f′c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5″.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered covered by the contract unit price Ornamental Pedestrian Fence (74.5 in.).

The contractor shall field verify the location of the installed post anchoring systems prior to fabrication of the ornamental fence.

For Detail "A", see Sheet No. 8.

For Ornamental Pedesetrian Fence (30 in.) Details along Barrier Curb (Mod. Type D), see Sheet No. 8.

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ORNAMENTAL PEDESTRIAN FENCE (74.5 IN.) DETAILS

Detailed December 2019
Checked December 2019

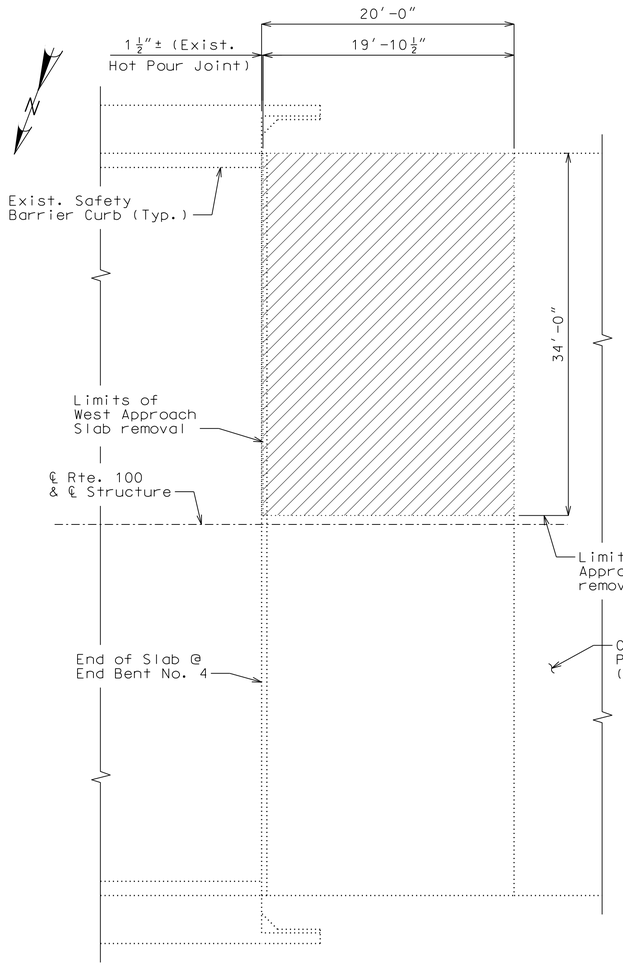
Note: This drawing is not to scale. Follow dimensions.

DATE PREPARED	1/23/2020
ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	9
COUNTY	ST. LOUIS
JOB NO.	J6S1718
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A48441

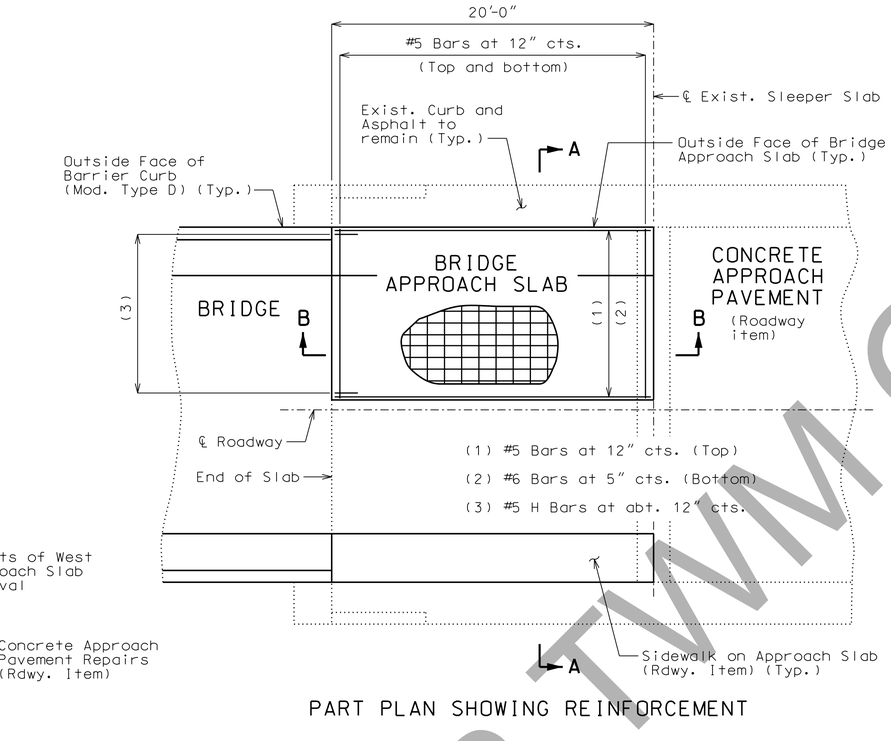
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

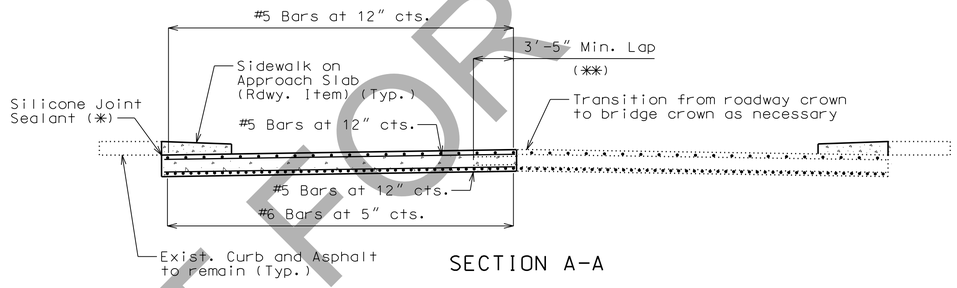
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856



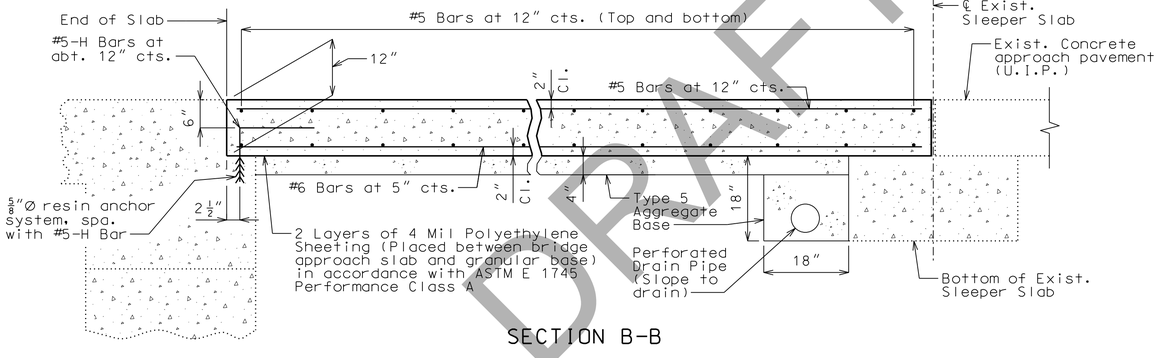
PART PLAN SHOWING APPROACH SLAB REMOVAL LIMITS



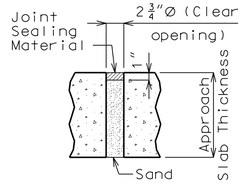
PART PLAN SHOWING REINFORCEMENT



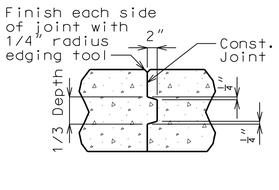
SECTION A-A



SECTION B-B



UNDERSEAL ACCESS HOLE DETAIL
(If required)



CONST. JOINT DETAIL

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29".

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge before pouring the bridge approach slab.

For Concrete Approach Pavement Repair details, see roadway plans.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Partial Removal & Replacement of Approach Slab per square foot.

* Seal joint between vertical face of approach slab and exist. curb with "Silicone Joint Sealant for Saw Cut and Formed Joints" in accordance with Sec 717.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c=4000 psi for the resin anchor systems shall be that required to meet the ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5-H Bar Grade 60 reinforcing bar shall be substituted for the 5/8" diameter threaded rod.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered covered by the contract unit price for Partial Removal & Replacement of Approach Slab, per square foot.

** Existing transverse reinforcement in approach slab to be cleaned and reused. Existing transverse reinforcing to be lapped with proposed transverse reinforcing as shown.

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DATE PREPARED 1/23/2020
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 10
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A48441

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

DETAILS OF BRIDGE APPROACH SLAB (MAJOR ROAD) AT END BENT NO. 4 AND REPAIRS

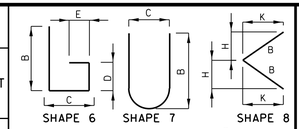
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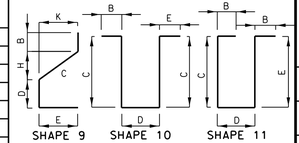
BILL OF REINFORCING STEEL

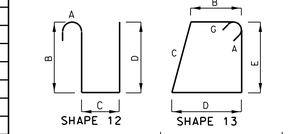
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SUPERSTRUCTURE																												
SIDEWALK																												
288	4	S100	Sidewalk	E	19						4.500	6	9.000											7	2	7	1	1363
32	4	S101	Sidewalk	E	20					27	10.000													27	10	27	10	595
64	4	S102	Sidewalk	E	20					9	8.000													9	8	9	8	413
16	4	S103	Sidewalk	E	20					28	8.000													28	8	28	8	306
32	4	S104	Sidewalk	E	20					4	9.000													4	9	4	9	102
164	4	S105	Sidewalk	E	19						12.000		6.000											1	6	1	5	155
BARRIER CURB (MOD. TYPE D)																												
40	5	C1	Slip Form	E	20					10	5.000													10	5	10	5	435
8	5	C2	Slip Form	E	20					6	1.000													6	1	6	1	51
420	5	R1	Barr. Curb	E	26	S				3	11.000		5.750							3	11.000		8.250	8	2	8	2	3577
48	5	R2	Barr. Curb	E	20					4	9.000													4	9	4	9	238
48	5	R3	Barr. Curb	E	20					27	10.000													27	10	27	10	1393
96	5	R4	Barr. Curb	E	20					9	8.000													9	8	9	8	968
24	5	R5	Barr. Curb	E	20					28	8.000													28	8	28	8	718
420	5	R6	Barr. Curb	E	20					2	0.000													2	0	2	0	876

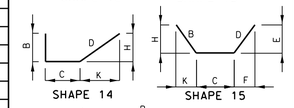
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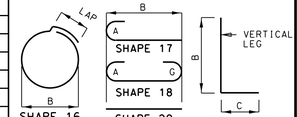
NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
BAR SIZE SUMMARY																												
TOTALS																												
	4			E																								2934
	5			E																								8256
SIDEWALK																												
	4			E																								2934
BARRIER CURB (MOD. TYPE D)																												
	5			E																								8256

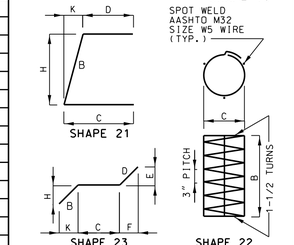


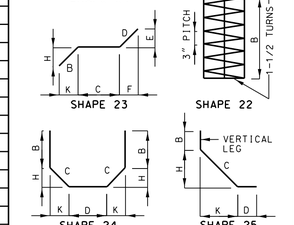


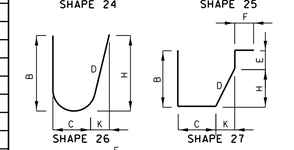


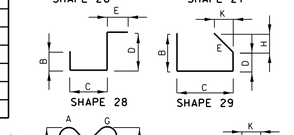


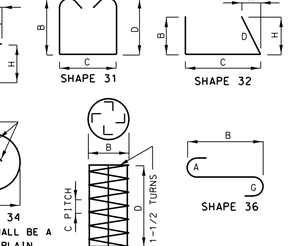




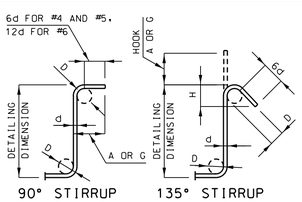






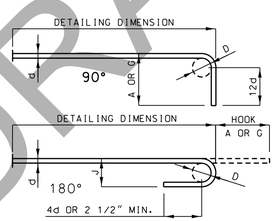


BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK HOOK A OR G	135° HOOK HOOK A OR G	135° HOOK APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
BAR SIZE	D (IN.)	ALL GRADES 180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

DRAFT FOR REVIEW ONLY

Detailed December 2019
Checked December 2019

Note: This drawing is not to scale. Follow dimensions.

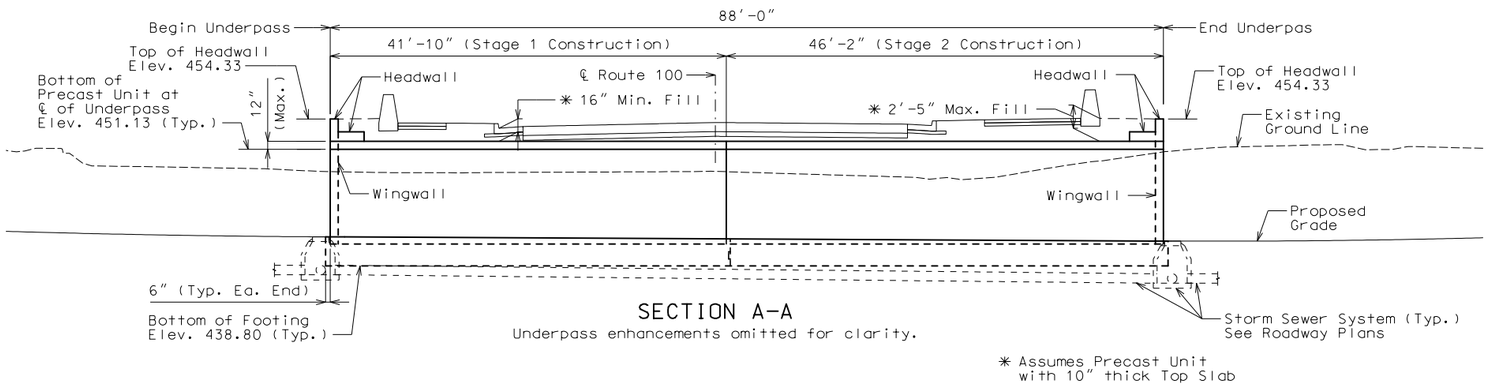
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ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 11
COUNTY ST. LOUIS
JOB NO. J6S1718
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A48441

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HDR Engineering, Inc.
401 S. 18th Street
Suite 300
St. Louis, MO 63103-2267
314-425-8300
Certificate of Authority: 000856

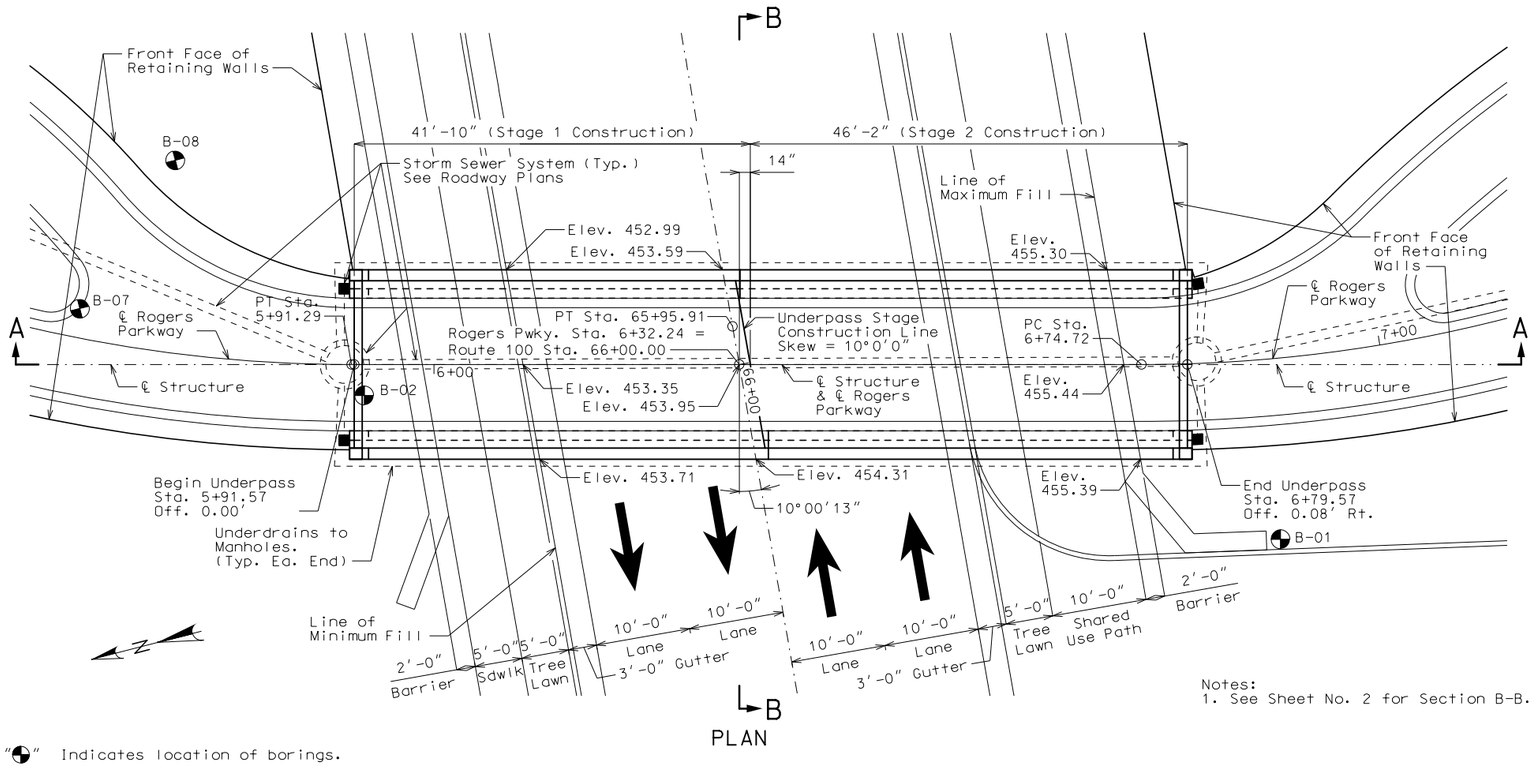
(16′ SPAN x 10′ RISE) THREE-SIDED PRECAST CONCRETE STRUCTURE



SECTION A-A

Underpass enhancements omitted for clarity.

✳ Assumes Precast Unit with 10″ thick Top Slab



PLAN

Notes:
1. See Sheet No. 2 for Section B-B.

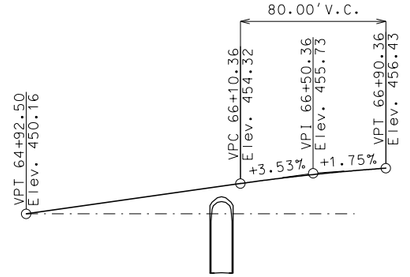
"⊕" Indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

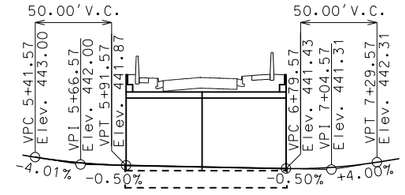
The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheet(s) No. 8 thru 9 or will be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Estimated Quantities			Final Quantities
Class 4 Excavation	cu. yard	XX	
Class B Concrete (Substructure)	cu. yard	50.2	
Reinforcing Steel (Epoxy Coated)	pound	1820	
Precast Concrete Structure	lump sum	1	
Waterproofing Membrane for Three-Sided Structure	lump sum	1	
Vertical Drain Core for Three-Sided Structure	lump sum	1	
Select Backfill for Structural Systems	cu. yard	XX	



ROUTE 100 PROFILE



ROGERS PARKWAY PROFILE

General Notes:

Design Specifications:
2012 AASHTO LRFD Bridge Design Speicications (6th Ed.) and 2013 Interim Revisions

Design Loadings:
Vehicular = HL-93 minus lane load
Earth = 120 lb/cf
Equivalent Fluid Pressure = 30 lb/cf (Min.), 60 lb/cf (Max.)

Design Unit Stresses:
Class B Concrete (Substructure) f′c = 3,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Flat-topped three-sided units will not be allowed.

Factored Design Reactions (per leg)from Three-Sided Structure used for Footing Design:
Vertical = 20 k/ft (DL + LL + IM)
Horizontal = 1.5 k/ft (DL + LL + IM)
If calculated reactions exceed these values, the Contractor shall notify the Engineer.

Traffic Handling: Traffic to be maintained on structures during construction. See roadway plans for traffic control and Sheets No. 3 thru 5 for staged construction details.

See Special Sheets for details of Underpass Enhancements.

B.M. #100 IRON ROD WITH CAP
EASTING = 864524.011
NORTHING = 1012073.584
ELEV. 451.33

B.M. #700 IRON ROD WITH CAP
EASTING = 864286.167
NORTHING = 1011686.323
ELEV. 449.34

UNDERPASS: ROUTE 100 OVER ROGERS PARKWAY

ROUTE 100 FROM BRENTWOOD BLVD. TO S. HANLEY RD.
ABOUT 0.2 MILES EAST OF BRENTWOOD BLVD.
TIE STATION 66+00.00

STD. 706.35

Detailed MAR. 2020
Checked MAR. 2020

Note: This drawing is not to scale. Follow dimensions.

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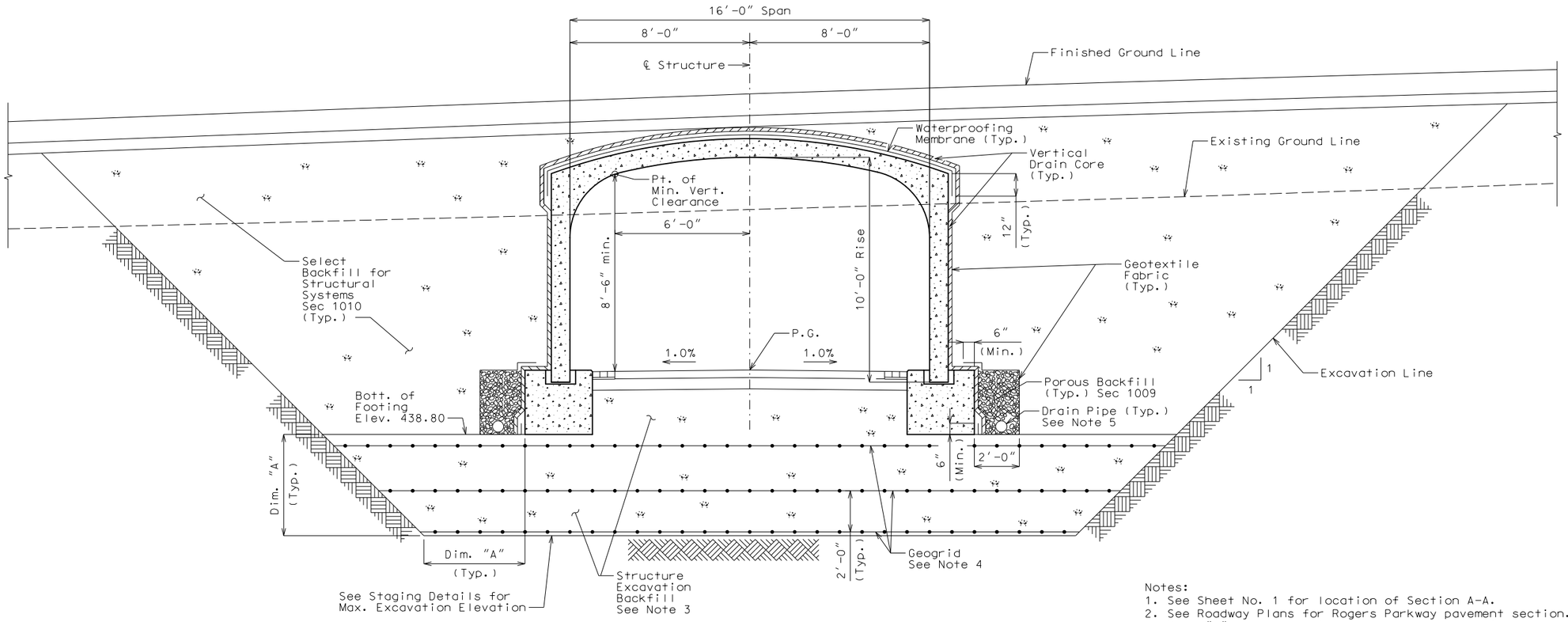
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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J61718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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SECTION A-A

Notes:
1. See Sheet No. 1 for location of Section A-A.
2. See Roadway Plans for Rogers Parkway pavement section.
3. Dim. "A" overexcavation as required to acheive allowable bearing pressures as determined by Geotechnical Engineer.
   Dim. "A" =
   4′-6″ for 1,500 psf Allowable Bearing Pressure
   3′-0″ for 2,000 psf Allowable Bearing Pressure
4. Backfill shall meet the electrochemical requirements of Sec. 1010.4.2.
5. Geogrid shall be an integrally formed polypropylene biaxial geogrid with the minimum average roll values for both MD and XMD of 410 lb/ft (6.0 kN/m) for Tensile Strength at 2% Strain and 1,310 lb/ft (19.2 kN/m) for Ultimate Tensile Strength determined in accordance with ASTM D 4759. The geogrid shall have 100% resistance to Long Term Degradation when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing. The geogrid shall have 100% resistance to UV Degradation when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D 4355. Geogrid will be considered completely covered by the contract unit price for Precast Concrete Structures.
6. All drain pipe shall slope 1 to 2 percent. Drain pipe may be either 4-inch diameter corrugated polyvinyl chloride (PVC) of polyethelene (PE) drain pipe. Perforated pipe shall be placed within the porous backfill and plain pipe shall be used to connect peforated pipe to manholes at either end of the underpass. Separate drain pipes shall be placed for each stage with caps installed on the ends of the drain pipes near the stage construction line.
7. Porous Backfill, Drain Pipe, pipe fittings, and Geotextile Fabric will be considered completely covered by the contract unit price for Vertical Drains for Three-Sided Structures.

TYPICAL SECTION

Detailed MAR. 2020
Checked MAR. 2020

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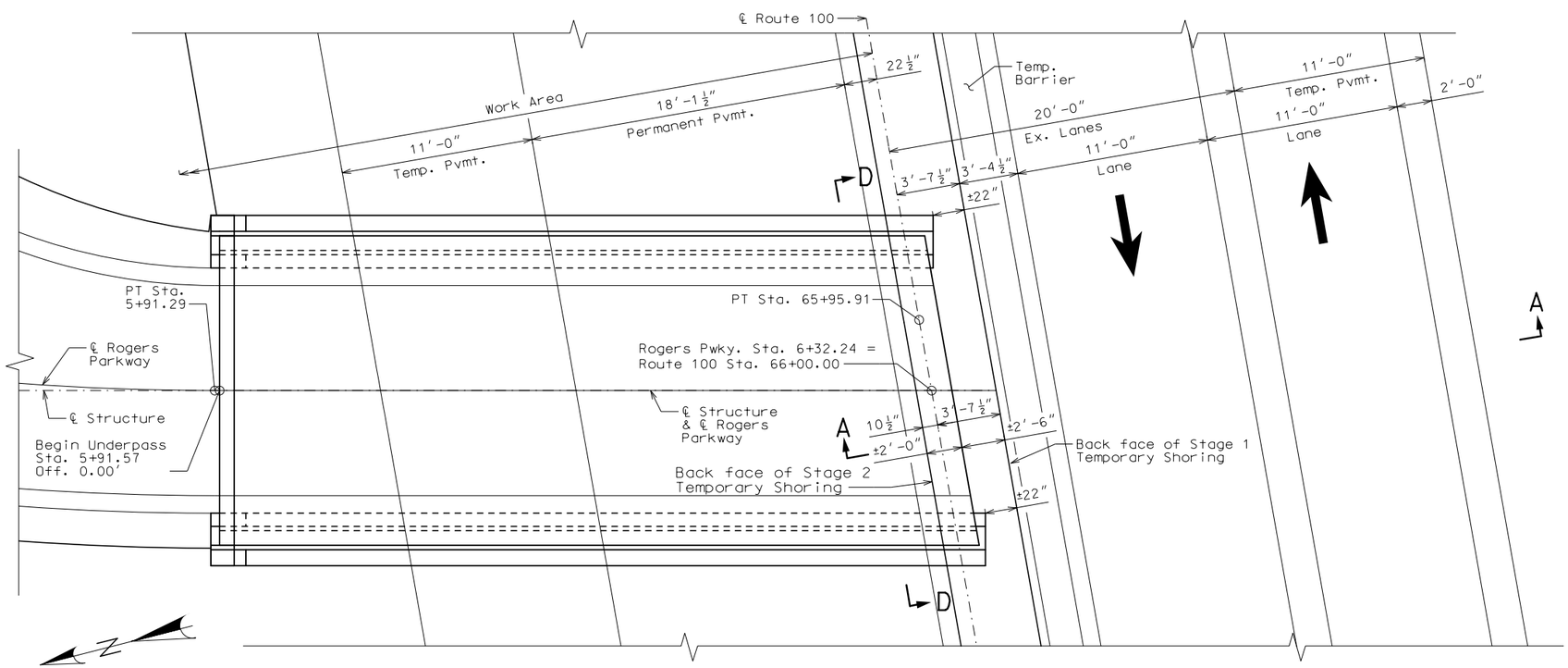
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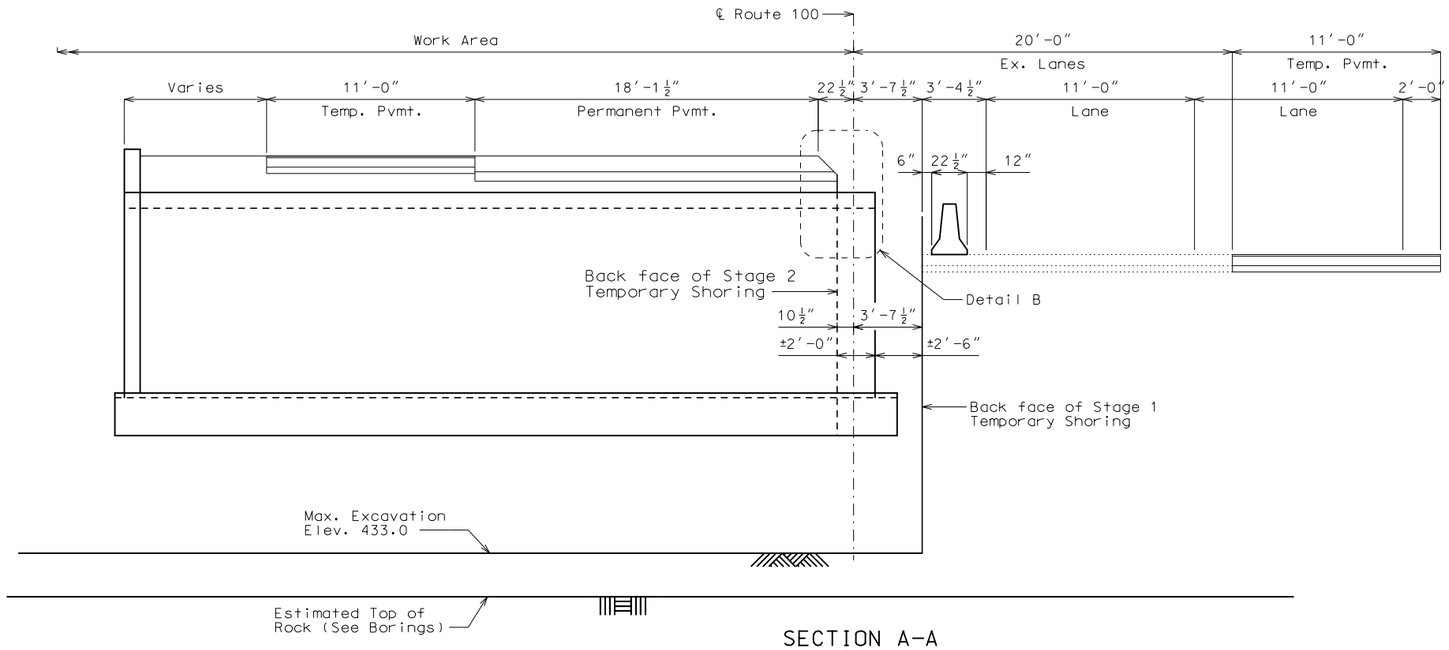
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STAGE 1 PLAN



SECTION A-A

Notes:
1. See Traffic Control sheets for information not shown.

STAGING DETAILS - STAGE 1

Detailed MAR. 2020
Checked MAR. 2020

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Sheet No. 3 of 9

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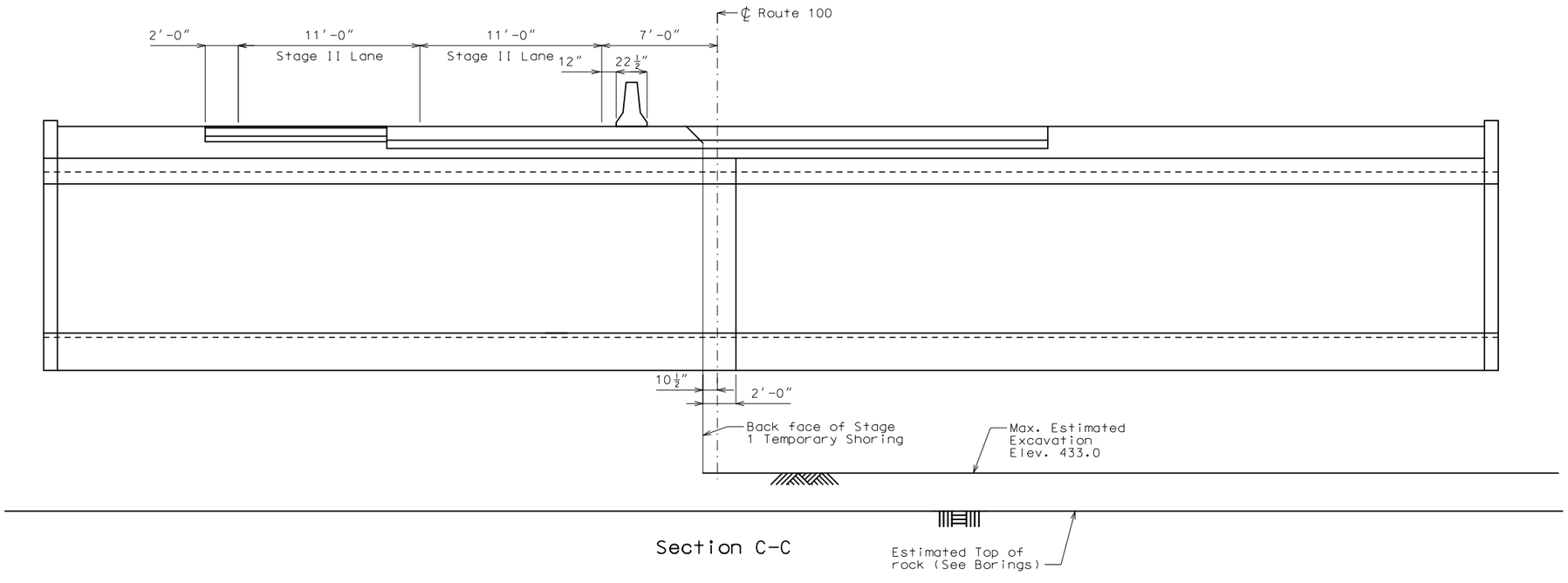
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Section C-C

STAGING DETAILS - STAGE 2

Detailed MAR. 2020
Checked MAR. 2020

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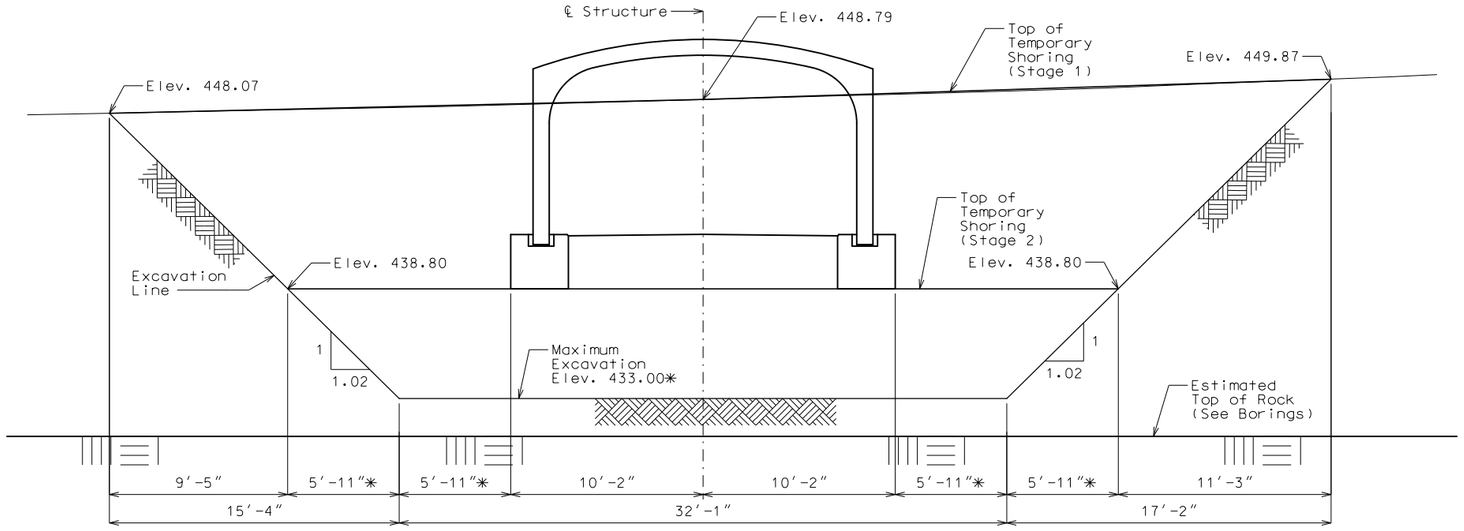
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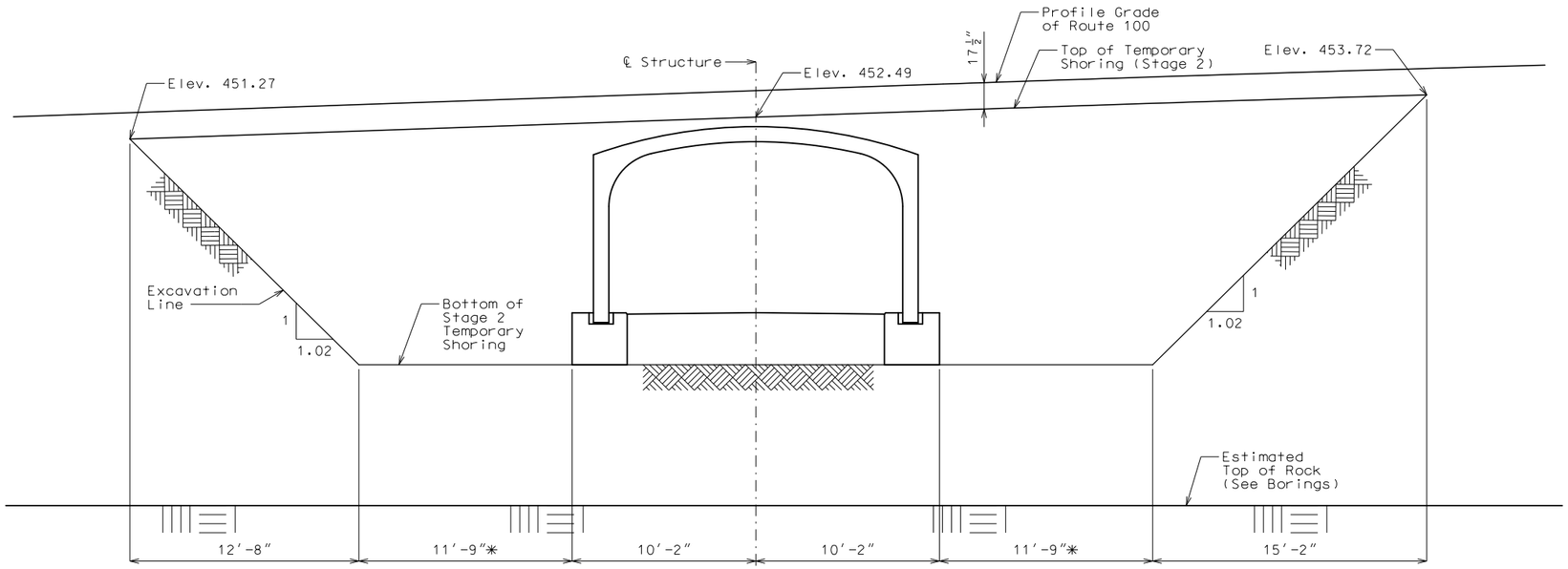
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SECTION C-C

Estimated Temporary Shoring Area = 1020 sq. feet

* Depth of excavation is dependent on the overexcavation required to acheive the required allowable bearing pressure. Temporary Shoring has been detailed and estimated quantities have been provided for the maximum excavation anticipated according to the geotechnical report. If less overexcavation is necessary, these dimensions may be reduced. See notes for Dimension "A" on Sheet No. 2.



SECTION E-E

Estimated Temporary Shoring Area = 1055 sq. feet

Notes:
1. Temporary Shoring shall be designed for all loading cases in each stage of construction. Note that during Stage 2, the Temporary Shoring installed in Stage 1 may need to support the portions of the underpass constructed in Stage 1 and the Stage 2 traffic.

STAGING DETAILS

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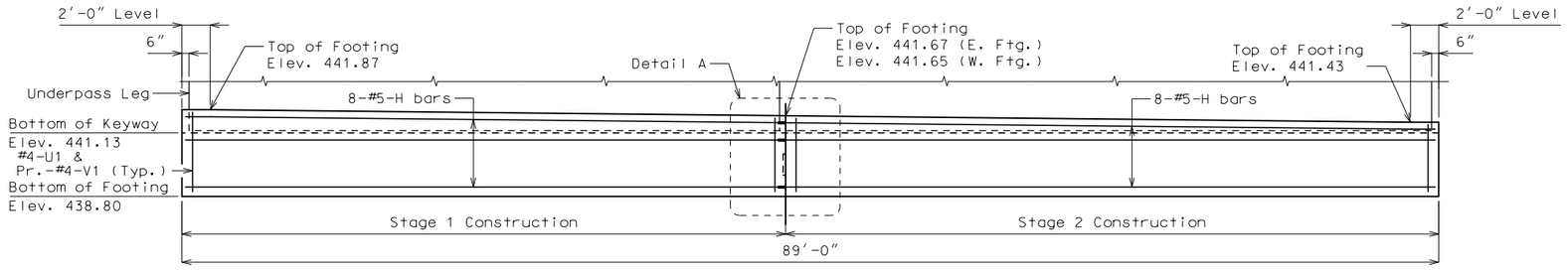
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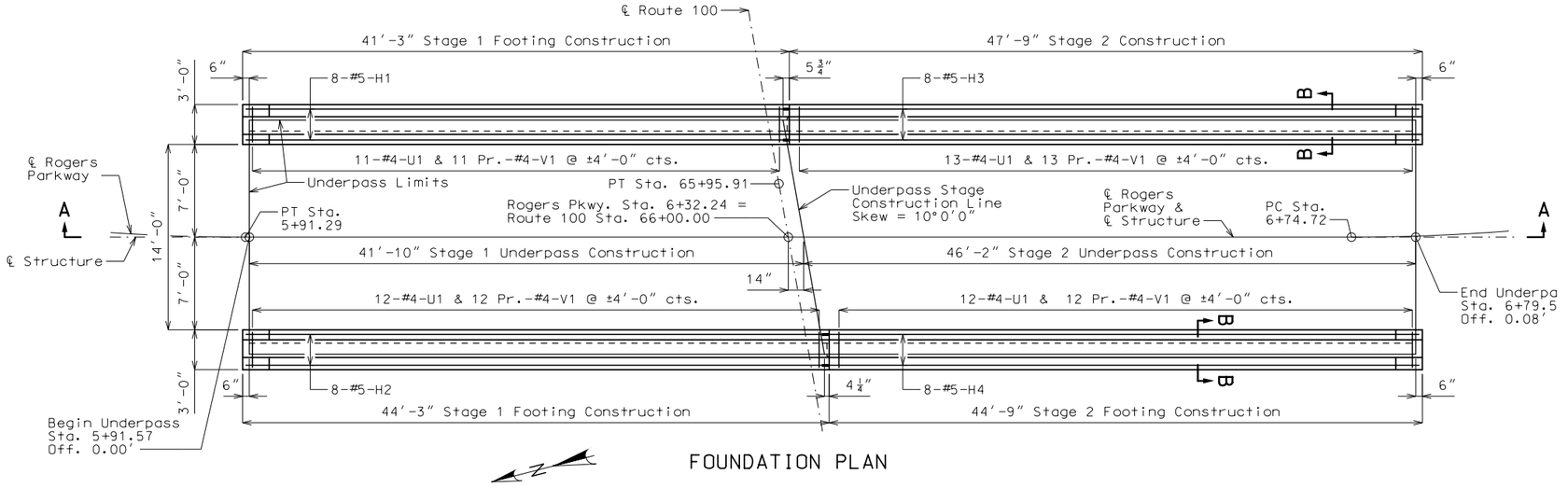
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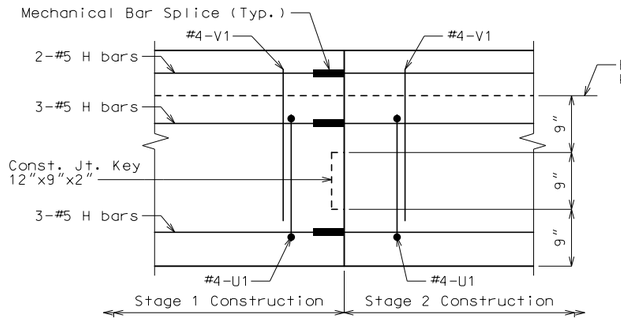
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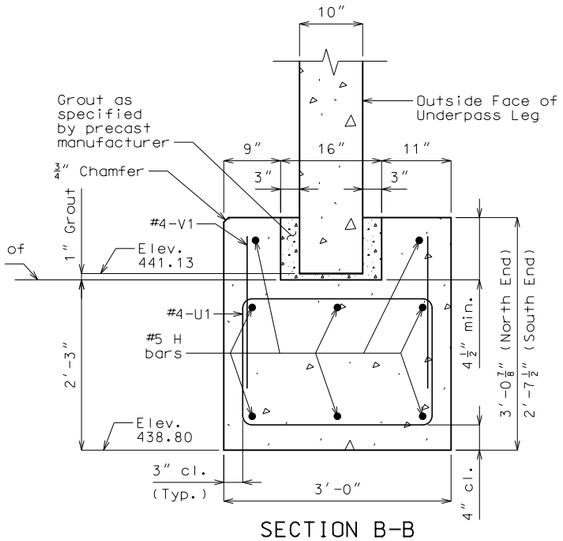
SECTION A-A



FOUNDATION PLAN



DETAIL A

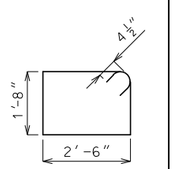


SECTION B-B

Substructure Quantity Table for Footings		
Item		Quantity
Class B Concrete (Substructure)	cu. yard	50.2
Reinforcing Steel (Epoxy Coated)	pound	1820

These quantities are included in the Estimated Quantities table on Sheet No. 1.

BILL OF REINFORCING STEEL - FOOTINGS				
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAM
8	5 H1	41′-0″	20	SHAPE 20
8	5 H2	44′-0″	20	
8	5 H3	47′-6″	20	
8	5 H4	44′-6″	20	
48	4 U1	8′-10″	13	
48	4 V1	2′-0″	20	



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures.
Stirrup and Tie Dimensions.

Actual lengths are measured along centerline of bar to the nearest inch.

All reinforcement shall be Grade 60.

All bars shall be epoxy coated.

Mechanical bar splices shall be in accordance with Sec 710.

FOOTING DETAILS

Detailed MAR. 2020
Checked MAR. 2020

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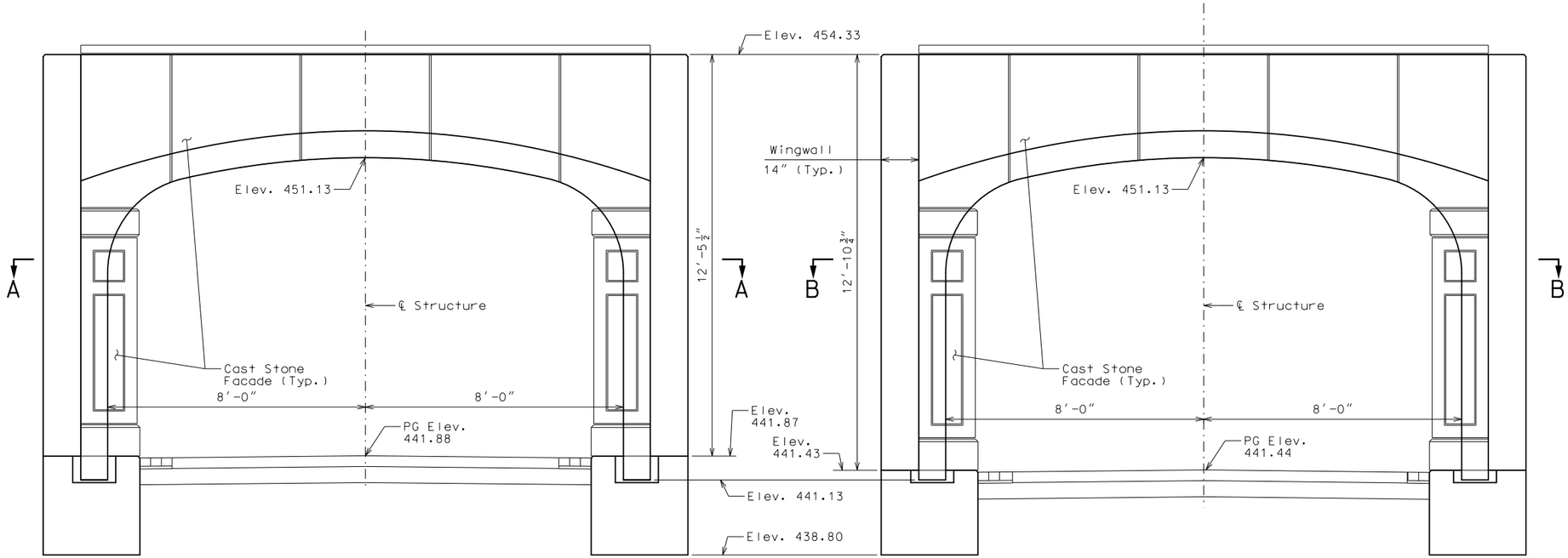
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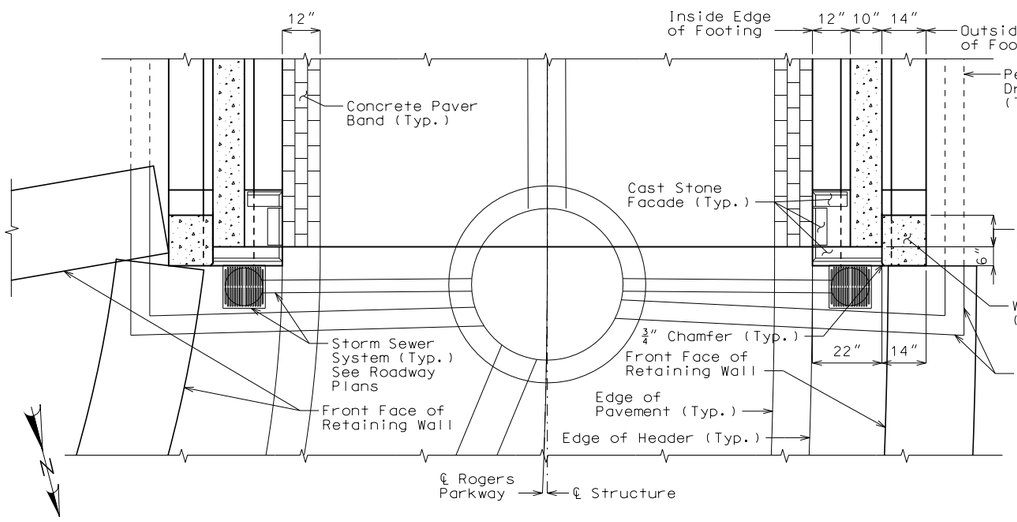
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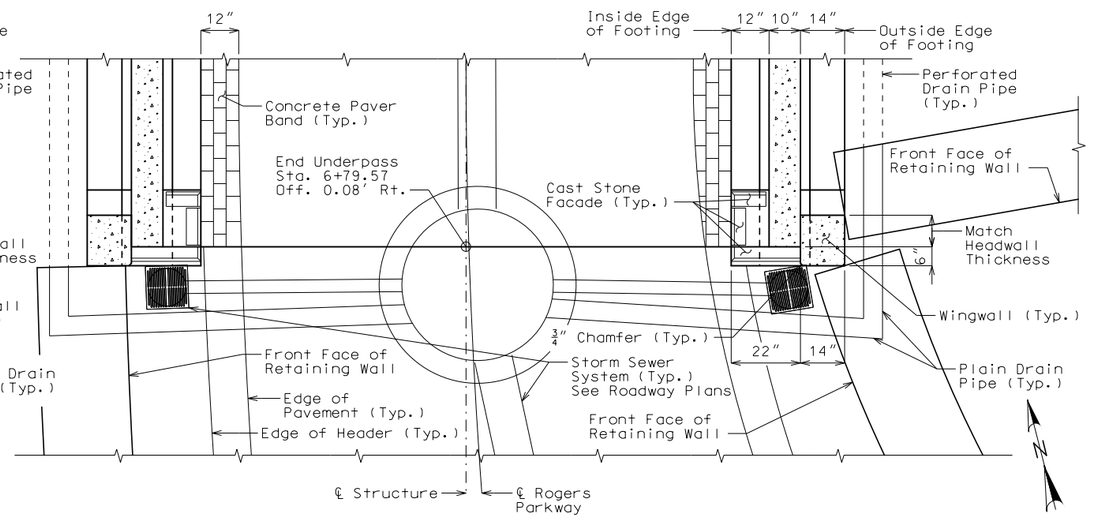


NORTH END ELEVATION

SOUTH END ELEVATION



SECTION A-A



SECTION B-B

Notes:
1. See Special Sheets for details of Underpass Enhancements.
2. Cast Stone Facade shall be attached to precast units, headwall, and wingwall. Attachment details by others.

DETAILS OF UNDERPASS ENDS

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BORING LOG NO. B-01

Page 1 of 1

PROJECT: Brentwood Pedestrian Underpass

CLIENT: Thouvenot, Wade & Moerchen, Inc
St. Louis, Missouri

SITE: Manchester Road and Mary Avenue
Brentwood, Missouri

LOCATION See Exploration Plan

Latitude: 38.61231° Longitude: -90.345508°

Surface Elev.: 449.7 (Ft.)

DEPTH	ELEVATION (Ft.)	Description	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	SAMPLE NUMBER	HAND PENETROMETER (tsf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI
0.3	449.5	**Approximately 4" asphalt**											
0.8	449	**Approximately 6" gravel**											
		FILL - LEAN CLAY, trace gravel, brown and gray			X	16	4-5-5 N=10	1	2.5		26		
3.0	446.5	**FILL - LEAN CLAY**, black and gray, strong hydrocarbon odor			X	18	4-5-7 N=12	2	2.5		21		
5.5	444	**SANDY LEAN CLAY (CL)**, trace gravel, dark brown, stiff to very soft	5		X	18	3-5-5 N=10	3	2.0		20		
					X	18	0-0-0 N=0	4	<0.25		33		
12.0	437.5	**LEAN CLAY (CL)**, brown, stiff	10	▽									
		Effective Stress: phi = 29, cohesion = 1 psi Total Stress: phi = 14, cohesion = 2 psi	15		■	24		5	3.0		28	95	37-19-18
					X	18	3-4-6 N=10	6	1.25		27		
22.5	427	***Auger Refusal at 22.5 Feet***	20	▽									

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3.25-inch hollow-stem augers

Abandonment Method:
Boring backfilled with auger cuttings and capped with asphalt upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations and locations provided by TWM.

Notes:

WATER LEVEL OBSERVATIONS

▽ *13 feet while drilling*

▽ *20 feet at completion of drilling*

Terracon
11600 Lilburn Park Rd
Saint Louis, MO

Boring Started: 02-09-2018 | Boring Completed: 02-09-2018

Drill Rig: 960 CME-550X | Driller: AM

Project No.: 15175300

BORING LOG NO. B-02

Page 1 of 1

PROJECT: Brentwood Pedestrian Underpass

CLIENT: Thouvenot, Wade & Moerchen, Inc
St. Louis, Missouri

SITE: Manchester Road and Mary Avenue
Brentwood, Missouri

LOCATION See Exploration Plan

Latitude: 38.612526° Longitude: -90.345407°

Surface Elev.: 448.7 (Ft.)

DEPTH	ELEVATION (Ft.)	Description	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	SAMPLE NUMBER	HAND PENETROMETER (tsf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI
0.3	448.5	**Approximately 4" asphalt**											
0.8	448	**Approximately 6" gravel**											
		LEAN CLAY (CL), brown, medium stiff to stiff			X	14	3-4-4 N=8	1	3.5		23		
					X	16	4-4-4 N=8	2	2.5		21		38-19-19
			5		X	18	3-5-5 N=10	3	2.0		25		
					X	18	3-3-4 N=7	4	2.0		27		
			10										
			15	▽	■	24		5	3.5	1260	19	114	
18.0	430.5	***Auger Refusal at 18 Feet***		▽									

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3.25-inch hollow-stem augers

Abandonment Method:
Boring backfilled with auger cuttings and capped with asphalt upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations and locations provided by TWM.

Notes:

WATER LEVEL OBSERVATIONS

▽ *14 feet while drilling*

▽ *16 feet at completion of drilling*

Terracon
11600 Lilburn Park Rd
Saint Louis, MO

Boring Started: 02-09-2018 | Boring Completed: 02-09-2018

Drill Rig: 960 CME-550X | Driller: AM

Project No.: 15175300

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 15175300 BRENTWOOD PEDESTR_RECOVERED.GPJ TERRACON_DATATEMPLATE.GDT 3/16/18

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BORING DATA

Note: For locations of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

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BORING LOG NO. B-07

Page 1 of 1

PROJECT: Brentwood Pedestrian Underpass

CLIENT: Thouvenot, Wade & Moerchen, Inc
St. Louis, Missouri

SITE: Manchester Road and Mary Avenue
Brentwood, Missouri

LOCATION See Exploration Plan
Latitude: 38.612591° Longitude: -90.345384°
Surface Elev.: 449.4 (Ft.)

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	SAMPLE NUMBER	HAND PENETROMETER (tsf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI
0.3	449											
Approximately 4" asphalt												
0.8	448.5											
Approximately 6" gravel												
FILL - LEAN TO FAT CLAY, trace gravel, reddish brown and dark brown				X	18	4-4-4 N=8	1	2.0		20		
3.0	446.5											
FAT CLAY (CH), reddish brown, stiff				X	18	4-5-7 N=12	2	4.0		22		60-20-40
5.5	444	5										
LEAN CLAY (CL), brown, medium stiff to stiff				X	18	4-6-6 N=12	3	2.5		26		
				■	24		4	3.5	1240	27	99	36-20-16
12.0	437.5	10										
SANDY LEAN CLAY (CL), trace gravel, brown and dark brown, stiff			▽	X	16	4-4-5 N=9	5	3.25		24		
17.5	432	15										
Auger Refusal at 17.5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method:
3.25-inch hollow-stem augers

Abandonment Method:
Boring backfilled with auger cuttings and capped with asphalt upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations and locations provided by TWM.

Notes:

WATER LEVEL OBSERVATIONS
▽ *14.5 feet while sampling*

Terracon
11600 Lilburn Park Rd
Saint Louis, MO

Boring Started: 02-09-2018 | Boring Completed: 02-09-2018
Drill Rig: 960 CME-550X | Driller: AM
Project No.: 15175300

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 15175300 BRENTWOOD PEDESTR_RECOVERED.GPJ TERRACON_DATATEMPLATE.GDT 3/16/18

BORING LOG NO. B-08

Page 1 of 1

PROJECT: Brentwood Pedestrian Underpass

CLIENT: Thouvenot, Wade & Moerchen, Inc
St. Louis, Missouri

SITE: Manchester Road and Mary Avenue
Brentwood, Missouri

LOCATION See Exploration Plan
Latitude: 38.612545° Longitude: -90.345283°
Surface Elev.: 448.8 (Ft.)

DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	SAMPLE NUMBER	HAND PENETROMETER (tsf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI
0.3	448.5											
Approximately 4" asphalt												
0.8	448											
Approximately 6" gravel												
FILL - LEAN CLAY, trace asphalt, sand, and gravel, brown				X	14	3-5-7 N=12	1	1.75		17		
5.0	444											
LEAN TO FAT CLAY (CL/CH), brown				X	12	3-4-4 N=8	2	1.5		13		
Effective Stress: phi = 34, cohesion = 0.1 psi												
Total Stress: phi = 22, cohesion = 1 psi				■	24		3	4.0		25		46-18-28
8.0	441	5										
FAT CLAY (CH), brown, stiff				X	18	4-4-4 N=8	4	1.5		27	100	50-20-30
12.0	437	10										
FAT CLAY (CH), trace sand and gravel, reddish brown, hard				X	18	6-10-27 N=37	5	4.0		37		
18.0	431	15										
LIMESTONE, highly to moderately weathered, strong rock, poor RQD				■	Recovery: 100% RQD: 38% Cu: 9,700 psi	Run 1						
23.0	426	20										
Boring Terminated at 23 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.
Classification of rock materials has been estimated based on observation of core samples.
Petrographic analysis may reveal other rock types.
Hammer Type: Automatic

Advancement Method:
3.25-inch hollow-stem augers

Abandonment Method:
Boring backfilled with auger cuttings and capped with asphalt upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations and locations provided by TWM.

Notes:
Hard drilling from 15 ot 18 feet

WATER LEVEL OBSERVATIONS
Groundwater not encountered prior to coring

Terracon
11600 Lilburn Park Rd
Saint Louis, MO

Boring Started: 02-13-2018 | Boring Completed: 02-13-2018
Drill Rig: 960 CME-550X | Driller: AM
Project No.: 15175300

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"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 3/20/2020
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO.
COUNTY ST. LOUIS
JOB NO. J61718B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWM ENGINEERING GEOSPATIAL SERVICES
720 OLIVE STREET, SUITE 200A
ST. LOUIS, MO 63101
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

BORING DATA

Note: For locations of borings, see Sheet No. 1.

Detailed MAR. 2020
Checked MAR. 2020

Note: This drawing is not to scale. Follow dimensions.

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