

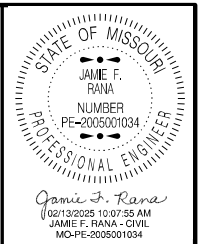
COLDMILLING & RESURFACING										
PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	AREA	COLDMILLING BIT. PAVEMENT FOR SURFACING (3" OR LESS)	ASPHALTIC CONC. MIXTURE PG 70-22 (SP125CLP MIX) 2 TONS/C.Y. TONS	BIT. PAVEMENT MIXTURE PG 64-22 (BP-1) 2 TONS/C.Y. TONS	TACK COAT LOW-TRACKING OR NON-TRACKING 0.13 GAL/S.Y. GAL.	REMARKS
						S.F.	S.Y.			
4	WB RTE. D	92+15.4	94+50.0	LT.	7567.5	840.8	116.8		109.3	
4	WB RTE. D	92+15.4	93+05.8	LT.	665.7	74.0		10.3	9.6	
4	WB RTE. D	92+84.3	93+16.6	LT.	192.6	21.4		3.0	2.8	
4	EB RTE. D	92+16.5	94+50.0	RT.	7965.2	885.0	122.9		115.1	
4	EB RTE. D	92+16.5	92+85.5	RT.	621	69.0		9.6	9.0	
4	EB RTE. D	92+40.7	93+00.8	RT.	640.8	71.2		9.9	9.3	
4	LOOP RAMP 'A' (NW QUAD)	3+50.8	7+31.3	-	8612.1	956.9	106.3		124.4	
4	LOOP RAMP 'A' (NW QUAD)	3+50.8	6+45.3	-	1931.4	214.6		23.84	27.9	
4 & 5	LOOP RAMP 'B' (NE QUAD)	4+67.0	8+12.8	-	8427.5	936.4	104.0		121.7	
4 & 5	LOOP RAMP 'B' (NE QUAD)	4+67.0	6+83.9	-	1474.5	163.8		18.20	21.3	
4 & 5	LOOP RAMP 'C' (SE QUAD)	4+20.6	8+45.0	-	10136.3	1126.3	125.1		146.4	
4 & 5	LOOP RAMP 'C' (SE QUAD)	4+20.6	7+76.6	-	2286.4	254.0		28.22	33.0	
4	LOOP RAMP 'D' (SW QUAD)	5+36.4	9+75.4	-	11089.6	1232.2	136.9		160.2	
4	LOOP RAMP 'D' (SW QUAD)	5+36.4	8+54.2	-	2404.7	267.2		29.69	34.7	
4	SB US 67	186+25.0	187+28.6	RT.	822	91.3		10.14	11.9	
4	SB US 67	186+25.0	195+00.0	RT.	31299.4	3477.7	386.4		452.1	
4	SB US 67	187+80.5	191+72.7	RT.	3641.2	404.6		44.96	52.6	
4	SB US 67	192+27.5	195+00.0	RT.	2612.4	290.3		32.26	37.7	
4	NB US 67	186+25.0	187+83.5	LT.	1546.1	171.8		19.09	22.3	
4	NB US 67	186+25.0	195+00.0	LT.	32839.6	3648.8	405.4		474.3	
4	NB US 67	188+55.9	192+79.1	LT.	3274	363.8		40.42	47.3	
4	NB US 67	194+00.9	195+00.0	LT.	818.5	90.9		10.10	11.8	
5	WB RTE. D	105+74.5	106+03.5	LT.	136.4	15.2		2.11	2.0	
5	WB RTE. D	105+85.7	106+35.6	LT.	219.4	24.4		3.39	3.2	
5	WB RTE. D	105+50.0	111+32.1	LT.	21777.3	2419.7	336.1		314.6	
5	WB RTE. D	108+50.0	111+32.1	LT.	2172.7	241.4		33.53	31.4	
5	EB RTE. D	105+50.0	111+32.1	RT.	22239	2471.0	343.2		321.2	
5	EB RTE. D	107+45.8	107+79.3	RT.	192.2	21.4		2.97	2.8	
5	EB RTE. D	107+60.1	111+32.1	RT.	2351.6	261.3		36.29	34.0	
N/A	BRIDGE	98+99.0	101+03.3	LT. & RT.	2860.2	++		35.31		2" OVERLAY AFTER PARTIAL BRIDGE RAISED MEDIAN REMOVAL
SUBTOTALS						21106.4	2183.10	403.32	2743.9	
PAY TOTALS						21107	2183.1	403.3	2744	

NOTE: AS SHOWN IN THE PLANS, US 67 & LOOP RAMPS TO RECEIVE A 2" MILL/FILL, INCLUDING SHOULDERS. RTE. D TO RECEIVE A 2.5" MILL/FILL, INCLUDING SHOULDERS.
NOTE: ++ SEE BRIDGE JSPS

4" CONCRETE MEDIAN STRIP						
PLAN SHEET NO.	ROADWAY	STATION	STATION	AREA	4" CONCRETE MEDIAN STRIP S.Y.	REMARKS
5	RTE. D	106+55.0	108+90.2	1865	207.22	LEAVE 30' GAP BETWEEN MEDIAN & CRASH CUSHION
PAY TOTAL					207.3	

CURB						
PLAN SHEET NO.	RDWY	STA	STA	LOC	INTEGRAL CURB TYPE A (6" OR UNDER) L.F.	REMARKS
4	RTE D	98+25.84	98+62.30	LT	37.0	
4	RTE D	98+42.72	98+80.36	RT	38.0	
4	RTE D	101+22.41	101+52.51	LT	30.0	
4	RTE D	101+55.62	101+80.62	RT	25.0	
TOTAL					130.0	
PAY TOTAL					130	

FLOWABLE FILL							
PLAN SHEET NO.	ROADWAY	LOCATION	LENGTH FT.	WIDTH FT.	DEPTH FT.	FLOWABLE FILL	REMARKS
N/A	EB RTE.	E. OF BALL DRIVE	10	1	1	0.4	
N/A	EB RTE.	E. OF BALL DRIVE	10	1	1	0.4	
N/A	EB RTE.	E. OF BALL DRIVE	12	1	1	0.4	
N/A	EB RTE.	E. OF BALL DRIVE	5	1	1	0.2	
SUBTOTAL						1.4	
PAY TOTAL						2	



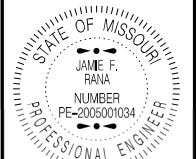
DATE PREPARED
2/12/2025
ROUTE D STATE MO
DISTRICT SL SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

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)

QUANTITY SHEETS
SHEET 3 OF 16



JAMIE F. RANA
1/23/2025 10:09:48 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/12/2025

ROUTE D STATE MO
DISTRICT SL SHEET NO. 4

COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

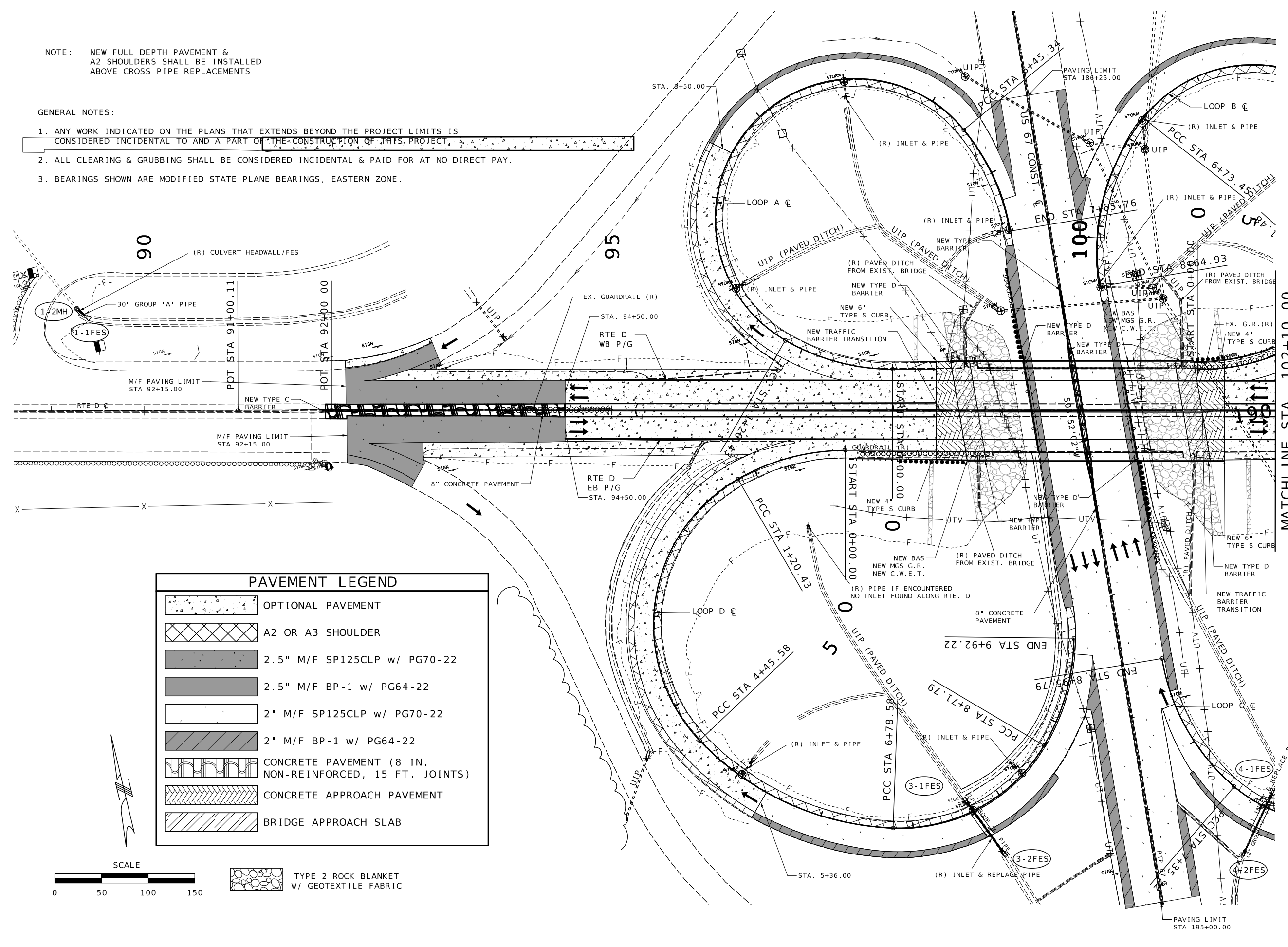
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
ROUTE D

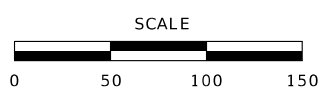
NOTE: NEW FULL DEPTH PAVEMENT & A2 SHOULDERS SHALL BE INSTALLED ABOVE CROSS PIPE REPLACEMENTS

GENERAL NOTES:

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
2. ALL CLEARING & GRUBBING SHALL BE CONSIDERED INCIDENTAL & PAID FOR AT NO DIRECT PAY.
3. BEARINGS SHOWN ARE MODIFIED STATE PLANE BEARINGS, EASTERN ZONE.

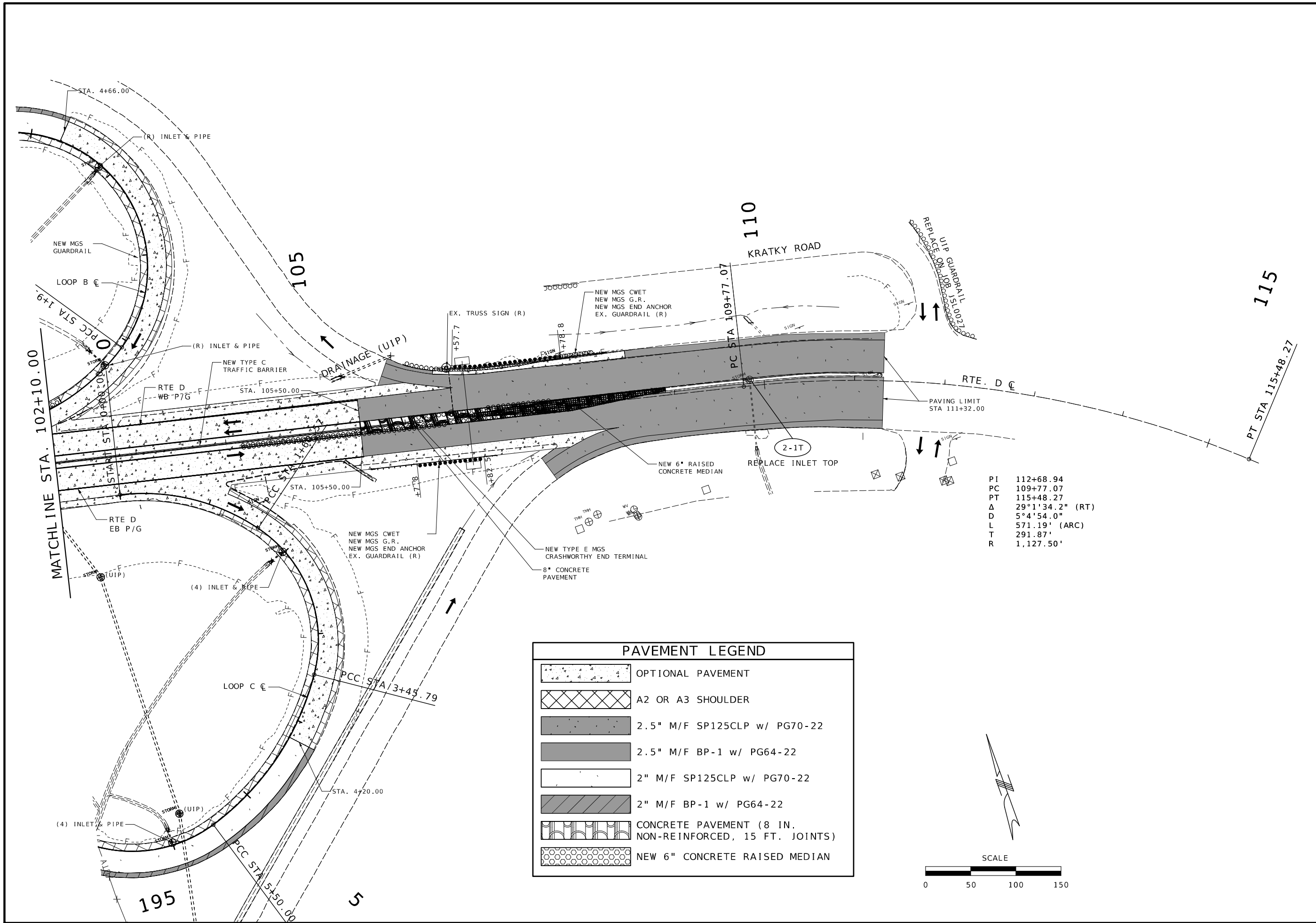


	OPTIONAL PAVEMENT
	A2 OR A3 SHOULDER
	2.5" M/F SP125CLP w/ PG70-22
	2.5" M/F BP-1 w/ PG64-22
	2" M/F SP125CLP w/ PG70-22
	2" M/F BP-1 w/ PG64-22
	CONCRETE PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS)
	CONCRETE APPROACH PAVEMENT
	BRIDGE APPROACH SLAB



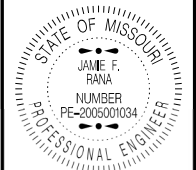
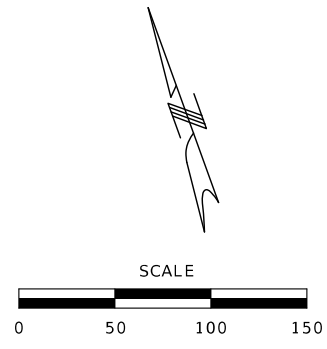
TYPE 2 ROCK BLANKET W/ GEOTEXTILE FABRIC





PI 112+68.94
 PC 109+77.07
 PT 115+48.27
 Δ 29°1'34.2" (RT)
 D 5°4'54.0"
 L 571.19' (ARC)
 T 291.87'
 R 1,127.50'

PAVEMENT LEGEND	
	OPTIONAL PAVEMENT
	A2 OR A3 SHOULDER
	2.5" M/F SP125CLP w/ PG70-22
	2.5" M/F BP-1 w/ PG64-22
	2" M/F SP125CLP w/ PG70-22
	2" M/F BP-1 w/ PG64-22
	CONCRETE PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS)
	NEW 6" CONCRETE RAISED MEDIAN



DATE PREPARED
 2/12/2025

ROUTE D STATE MO
 DISTRICT SL SHEET NO. 5
 COUNTY ST. LOUIS
 JOB NO. J6S3626
 CONTRACT ID.

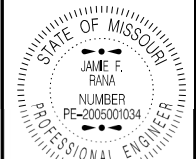
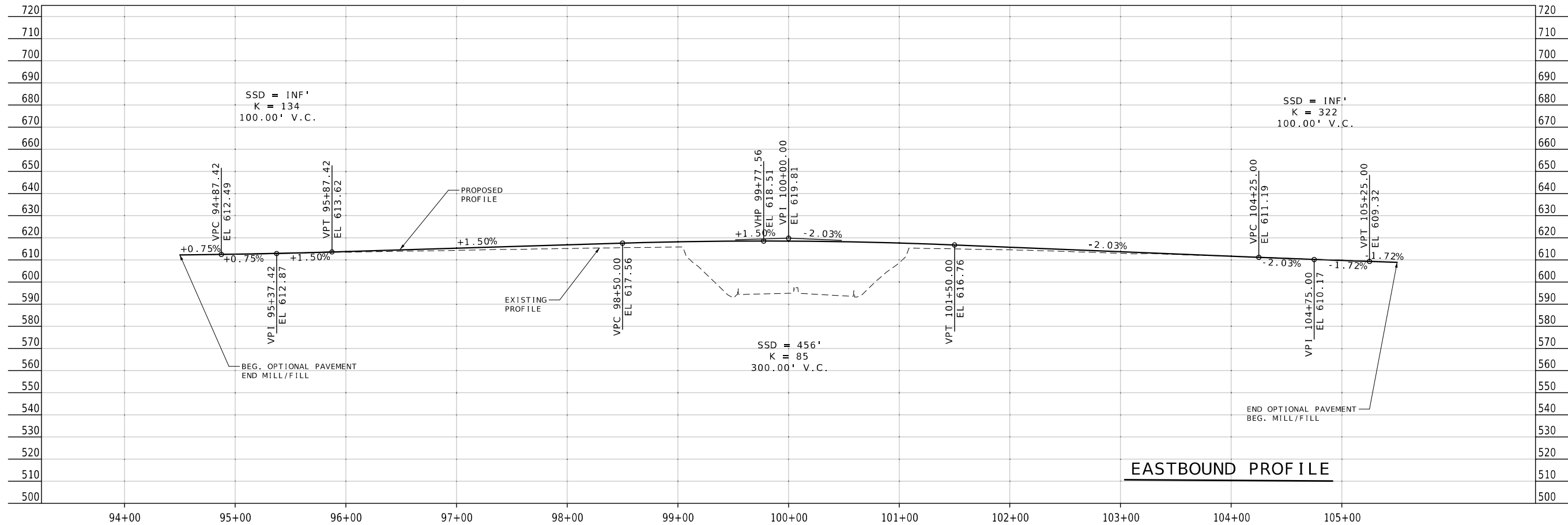
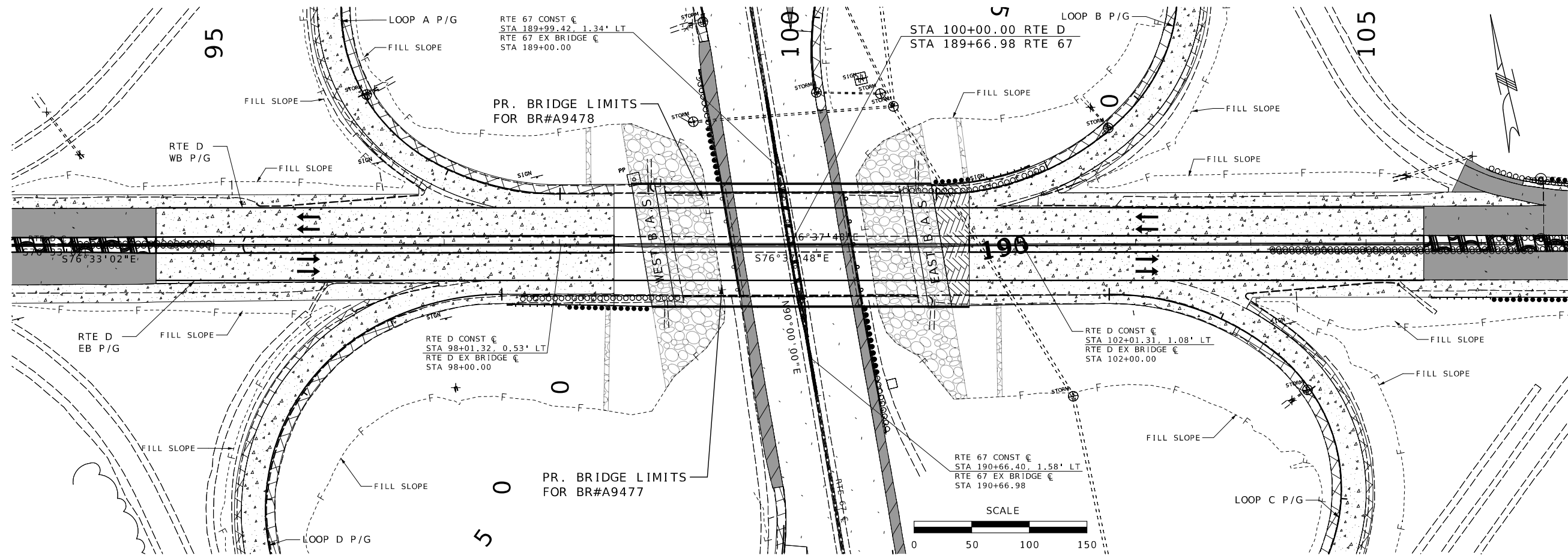
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
 ROUTE D



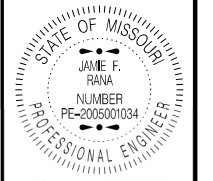
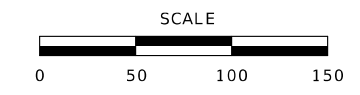
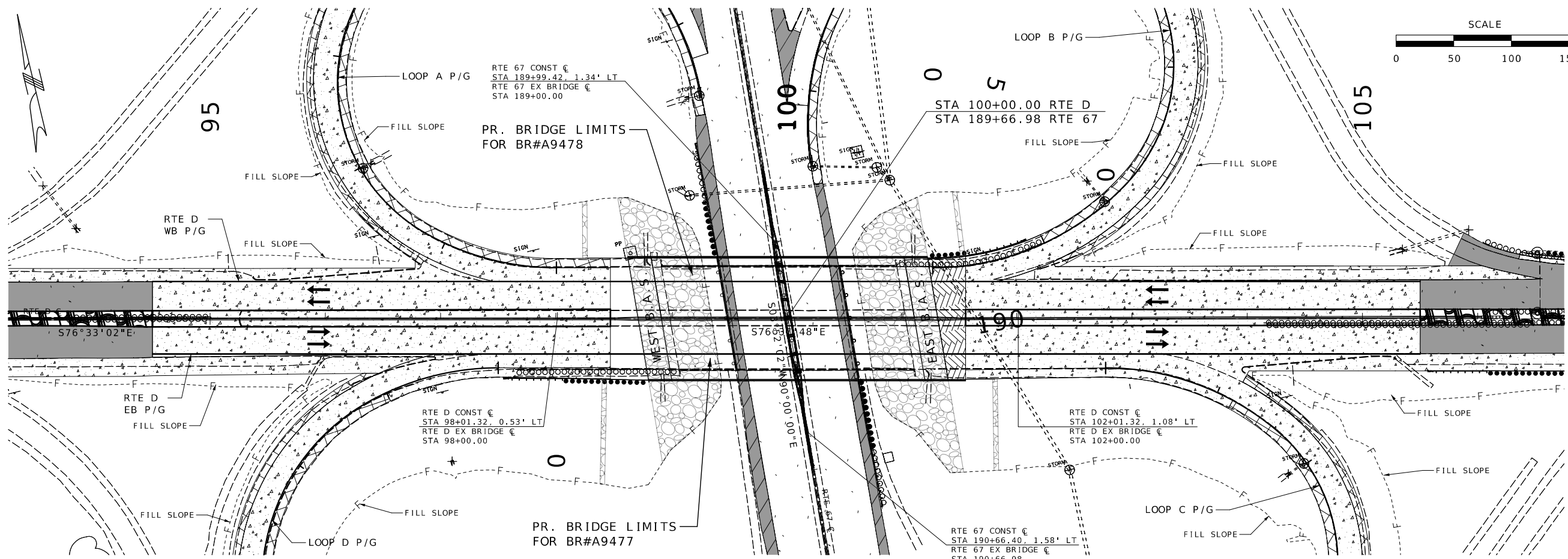
DATE PREPARED
 2/12/2025
 ROUTE D STATE MO
 DISTRICT SL SHEET NO. 6
 COUNTY ST. LOUIS
 JOB NO. J6S3626
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

PLAN PROFILE
 ROUTE D
 EASTBOUND PG



DATE PREPARED
2/12/2025

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 7

COUNTY
ST. LOUIS

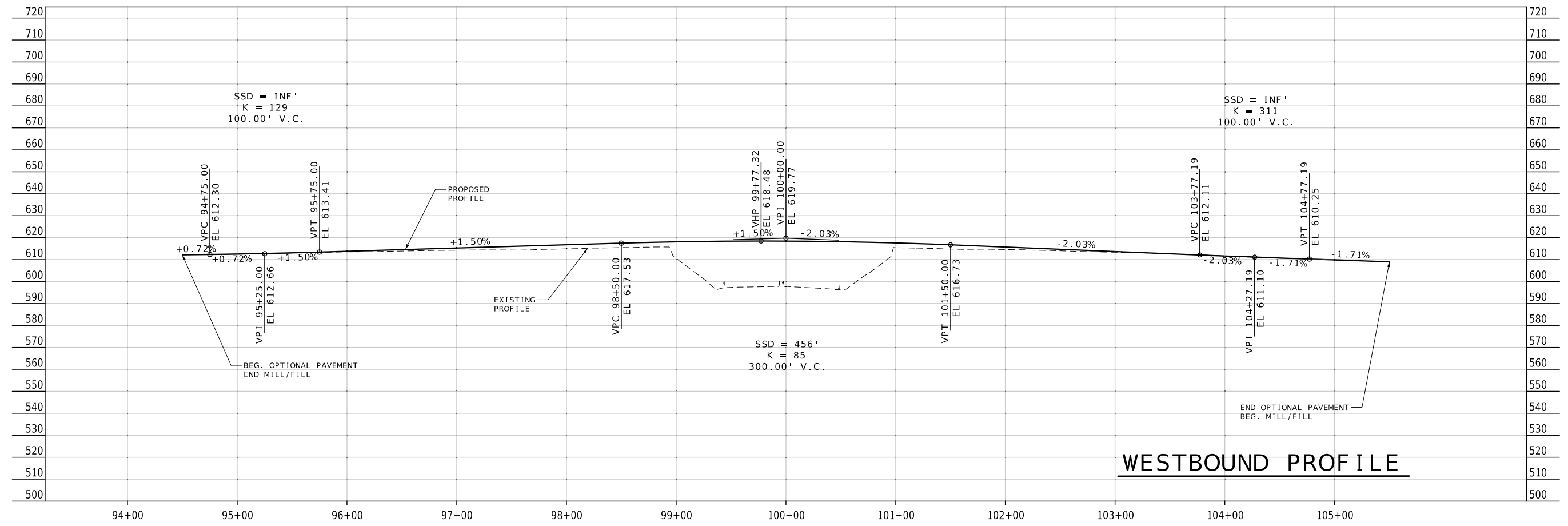
JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

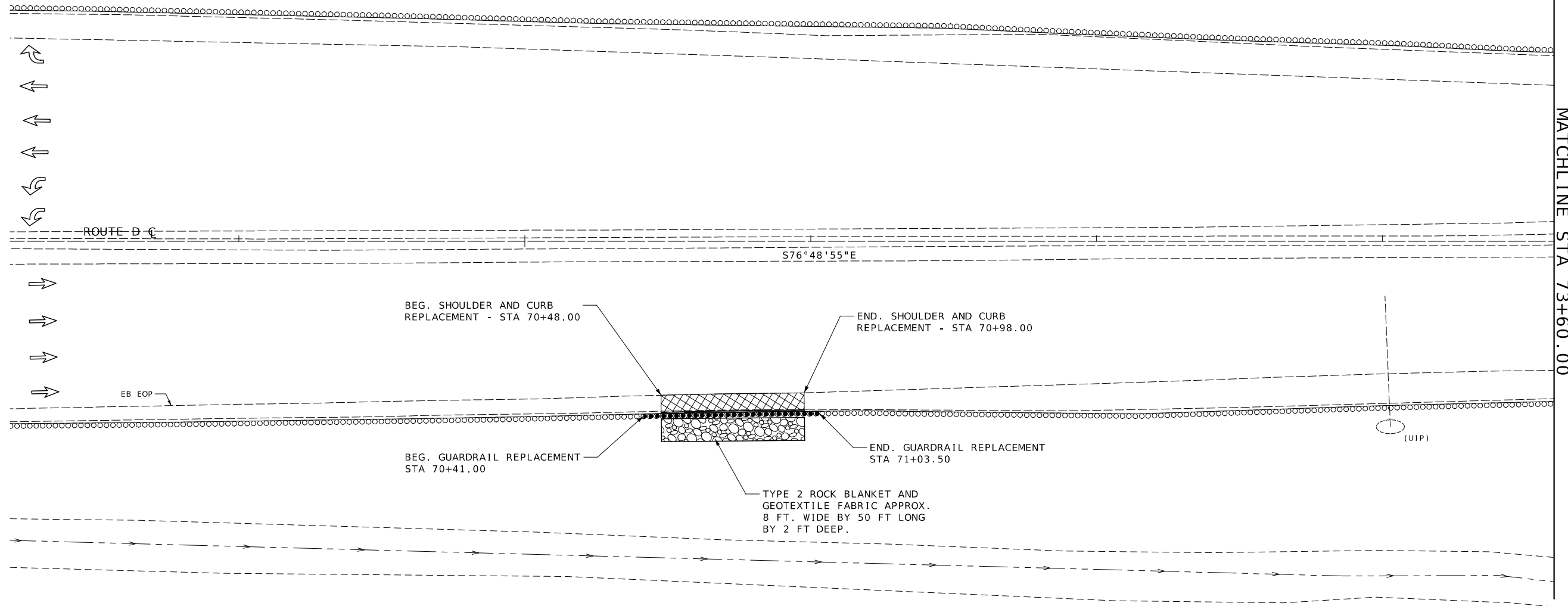
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

PLAN PROFILE
ROUTE D
WESTBOUND PG

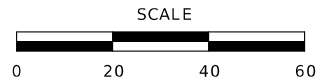


LEGEND	
	NEW A2 SHOULDER
	TYPE 2 ROCK BLANKET

70



MATCHLINE STA 73+60.00



NOTE: ROW LOCATED OUTSIDE LIMITS OF THIS PLAN SHEET.



Jamie F. Rana
 01/05/2025 11:20:31 AM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 12/20/2024

ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 10

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

PROJECT NO.

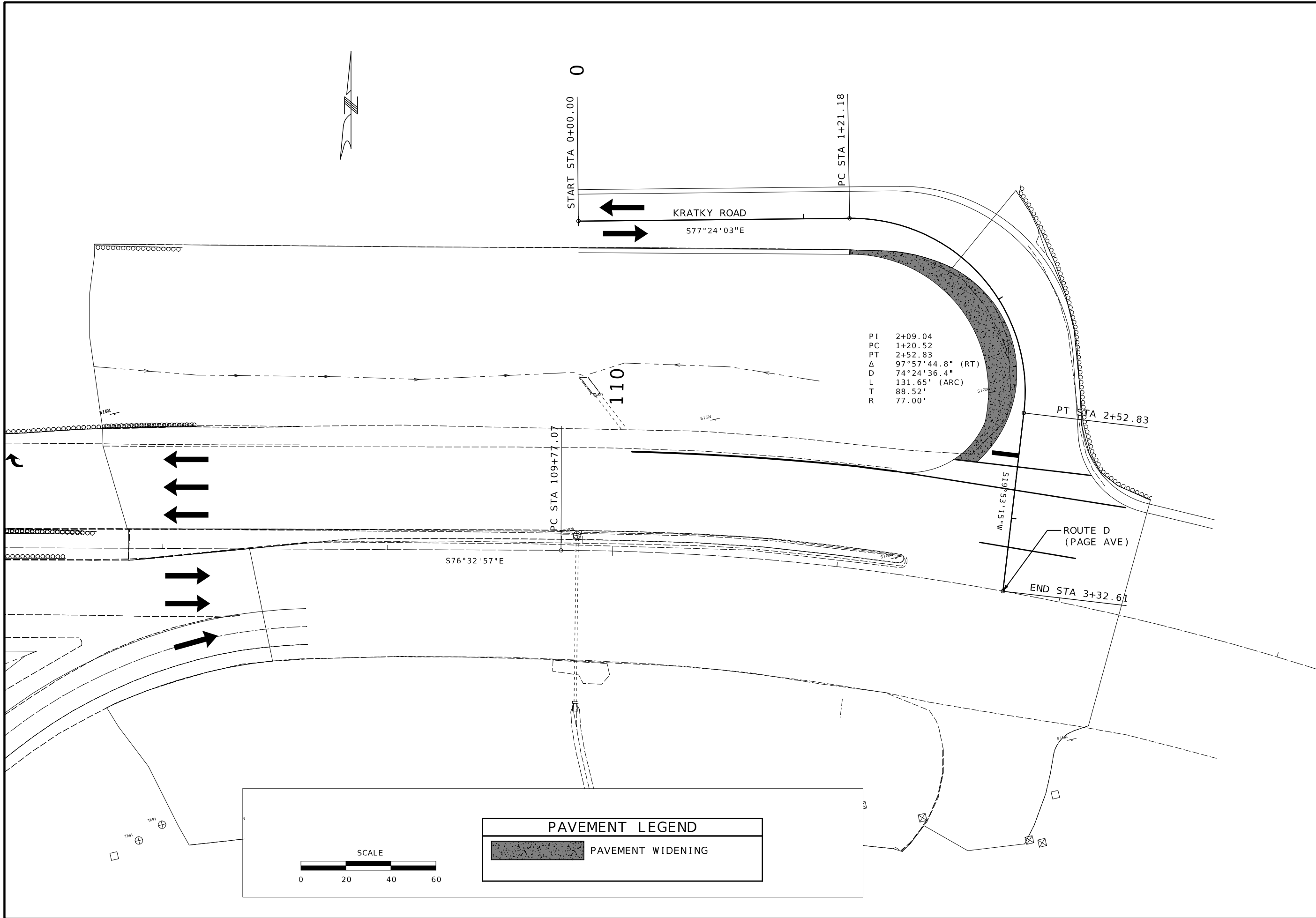
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
 EASTBOUND PAGE
 SLIDE REPAIR



Jamie F. Rana
 01/06/2025 11:22:31 AM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED		12/20/2024	
ROUTE	STATE	D	MO
DISTRICT	SHEET NO.	SL	12
COUNTY			
ST. LOUIS			
JOB NO.			
J6S3626			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

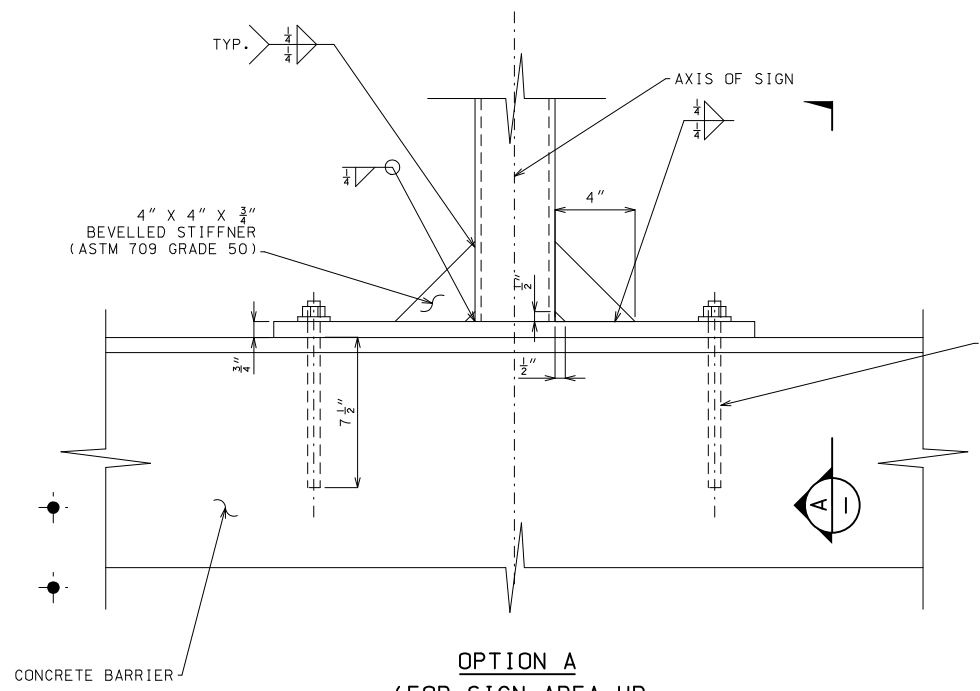
PLAN SHEET
 PAVEMENT WIDENING
 KRATKY ROAD

PAVEMENT LEGEND

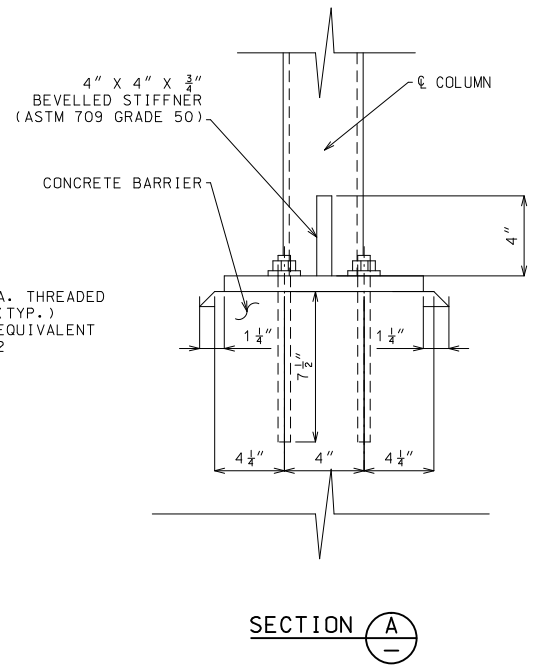
	PAVEMENT WIDENING
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SCALE

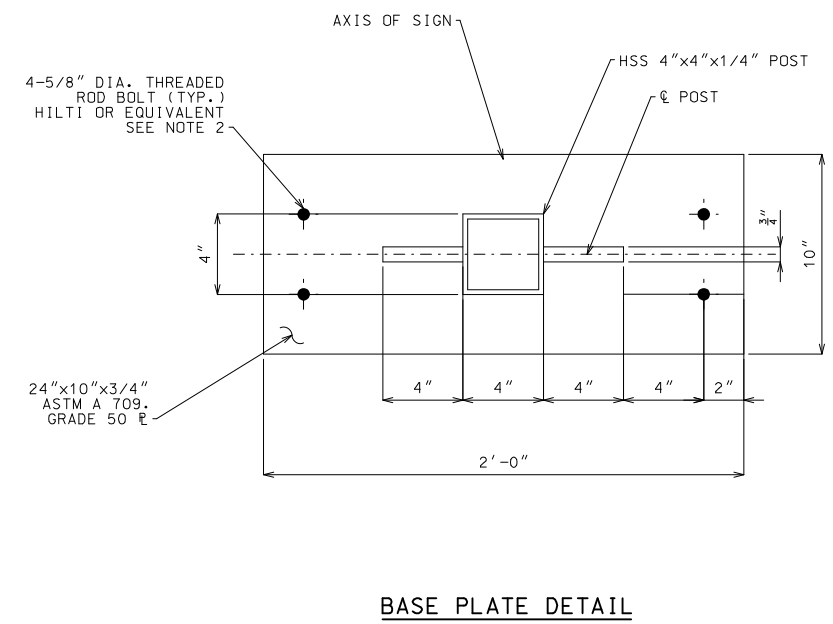
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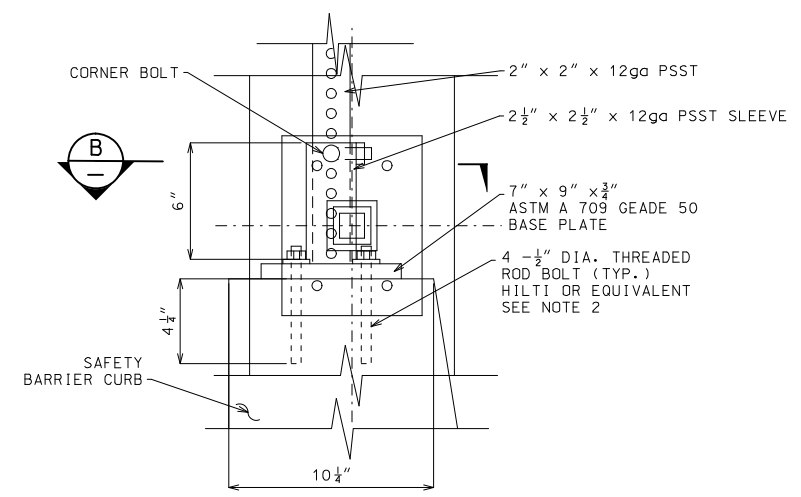
OPTION A
(FOR SIGN AREA UP TO 35 SQ. FT.)



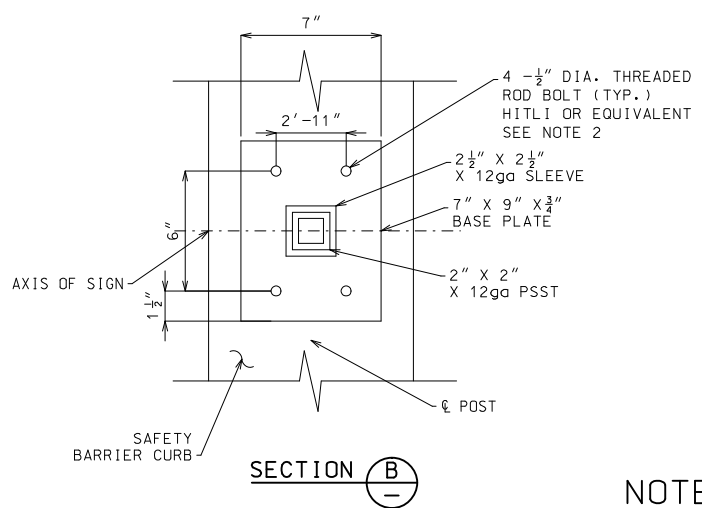
SECTION A



BASE PLATE DETAIL



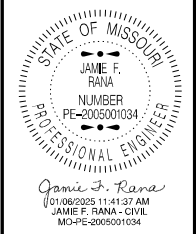
OPTION B
(FOR SIGN AREA UP TO 12 SQ. FT.)



SECTION B

NOTES:

1. THREADED ROD BOLTS SHALL CONFORM TO ASTM F 1554 GRADE 55.
2. HILTI HVA CAPSULE ADHESIVE ANCHORS OR APPROVED EQUAL.
3. CONCRETE IN BARRIER SHALL CONFIRM CLASS B1 ($f'c = 4000$ PSI).
4. OPTION A DETAIL SHALL BE USED WHEN FENCING IS MOUNTED TO THE TOP OF THE BARRIER. AT THE CONTRACTOR'S OPTION, THE SIGN POST MAY BE MOVED TO THE NEAREST FENCING LINE POST LOCATION AND REPLACE THE LINE POST.
5. LEVELING NUT MAY BE USED IF TOP OF BARRIER IS NOT COMPLETELY LEVEL.



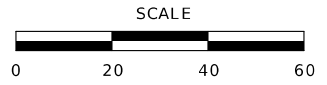
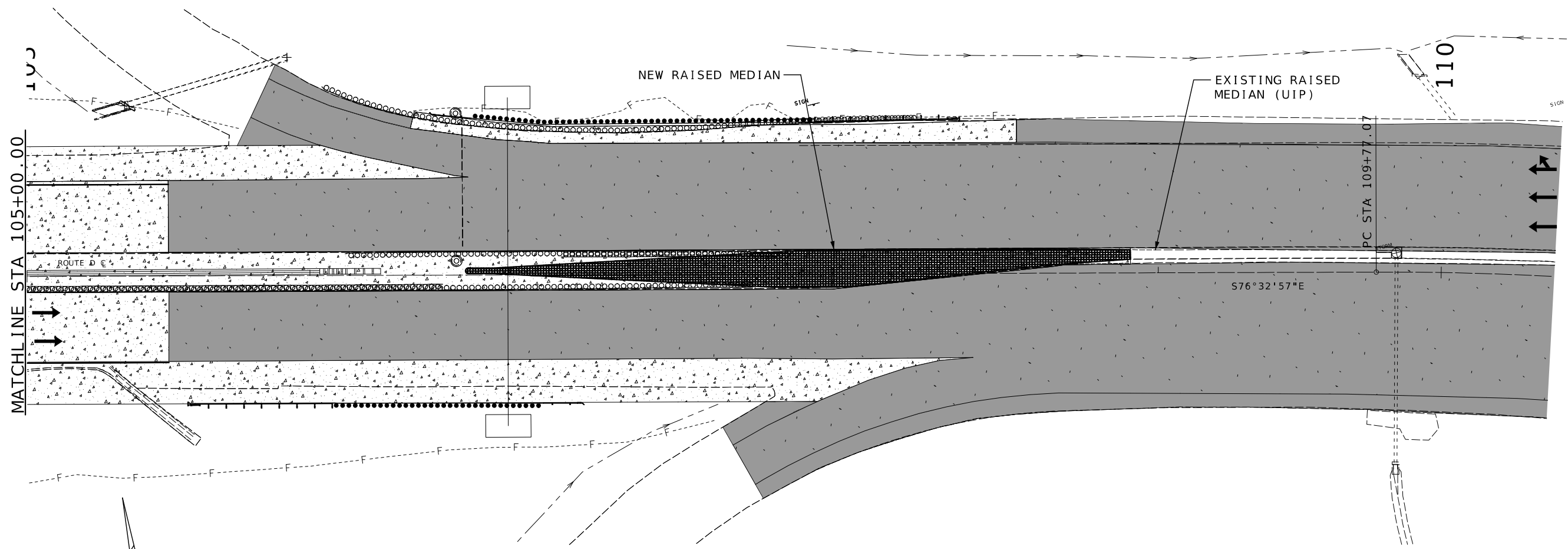
DATE PREPARED 12/20/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 20A
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

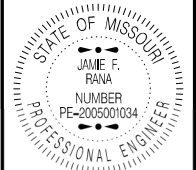
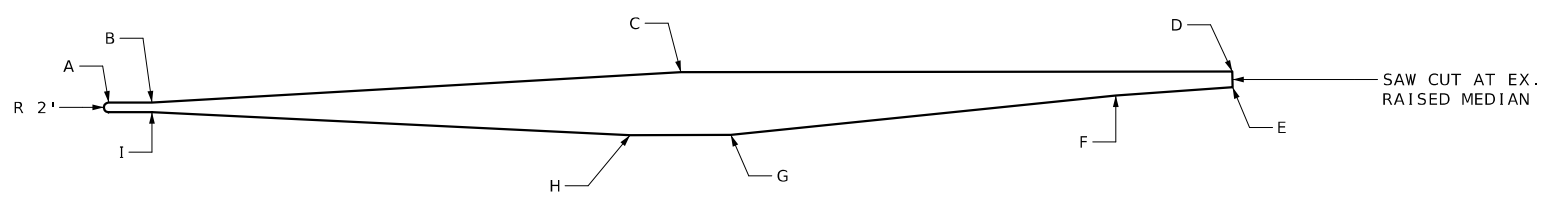
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**SPECIAL SHEET
BRACKET FOR SIGN
MOUNTED TO BARRIER**



ISLAND DETAIL		
A	106+56.00	2.45' LT
B	106+65.00	2.45' LT
C	107+75.23	8.39' LT
D	108+90.16	8.17' LT
E	108+90.16	4.88' LT
F	108+65.86	3.22' LT
G	107+85.61	4.71' RT
H	107+64.61	4.71' RT
I	106+65.00	0.45' RT



DATE PREPARED
 2/12/2025
 ROUTE D STATE MO
 DISTRICT SL SHEET NO. 20B
 COUNTY ST. LOUIS
 JOB NO. J6S3626
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

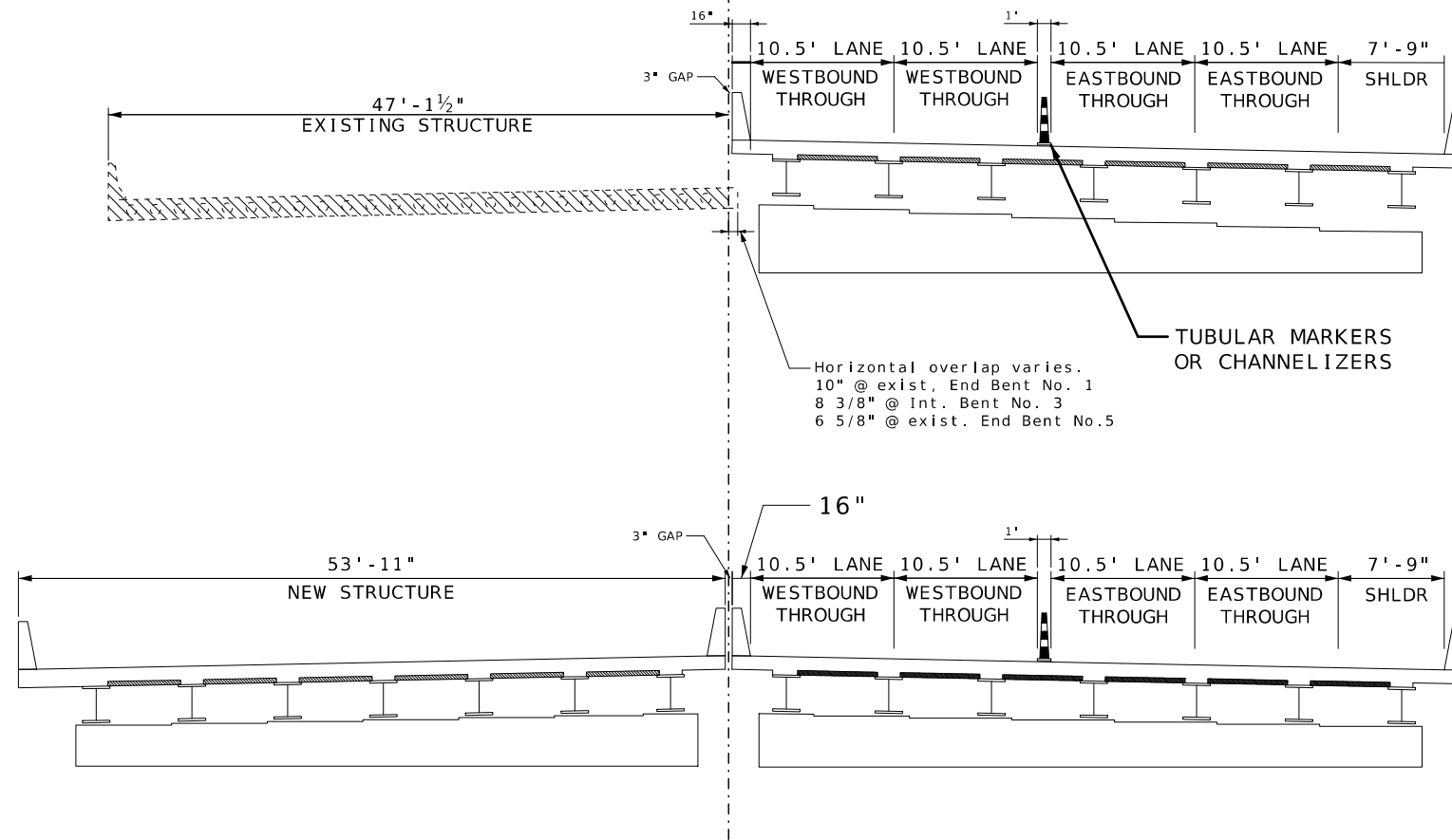
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

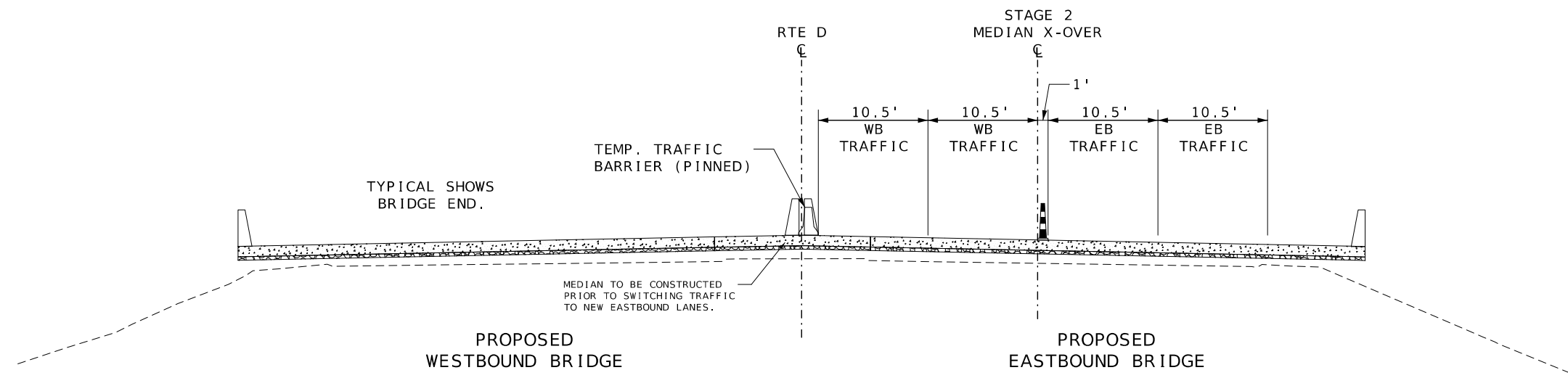
SPECIAL SHEET
ISLAND DETAIL

STAGE 2 - WESTBOUND CLOSURE (A9478)

PAGE 4

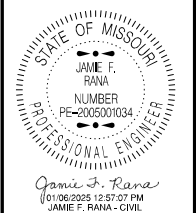


TYPICAL SECTIONS ON BRIDGE



TYPICAL SECTION BEFORE/AFTER BRIDGE

NOT TO SCALE



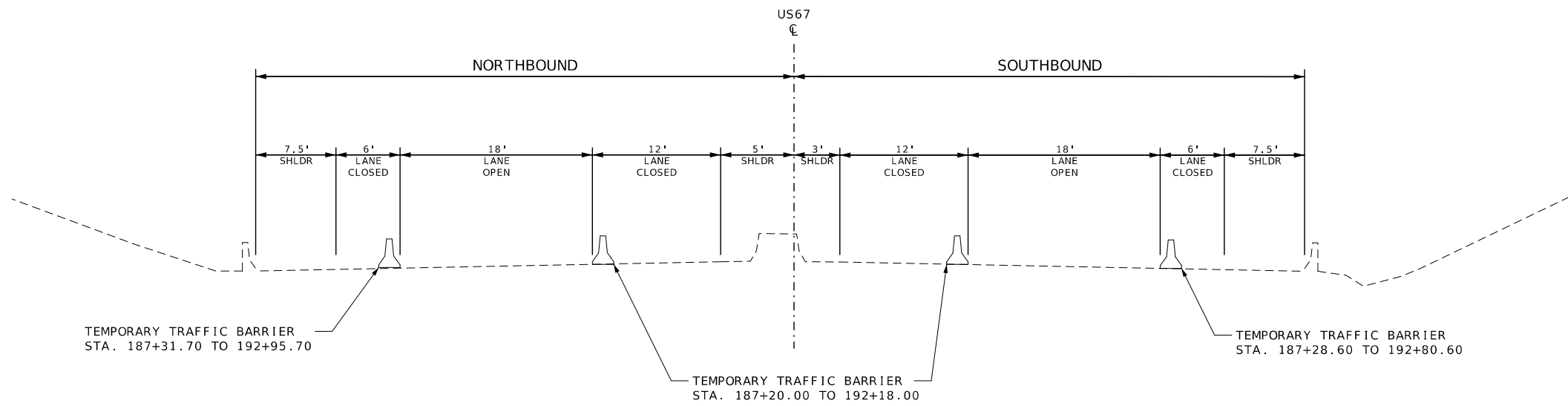
DATE PREPARED	
12/23/2024	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	22
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

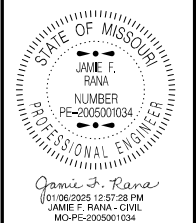
105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

TRAFFIC CONTROL BRIDGE STAGING TYPICAL



TRAFFIC CONTROL TYPICAL
US 67 @ RTE D
STA. 187+20.00 TO 192+18.00

*NOTE: ALL LANES SHALL BE CLOSED DURING THE DEMOLITION OF EXISTING BRIDGES AND DURING THE PLACEMENT OF NEW BRIDGE GIRDERS.



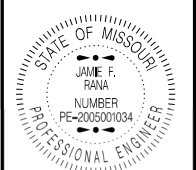
DATE PREPARED 12/20/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 22B
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

TRAFFIC CONTROL
US 67
TTC TYPICAL



JAMIE F. RANA
NO. PE-2003001034
MO-PE-200501034

DATE PREPARED
12/20/2024

ROUTE D STATE MO
DISTRICT SL SHEET NO. 27

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

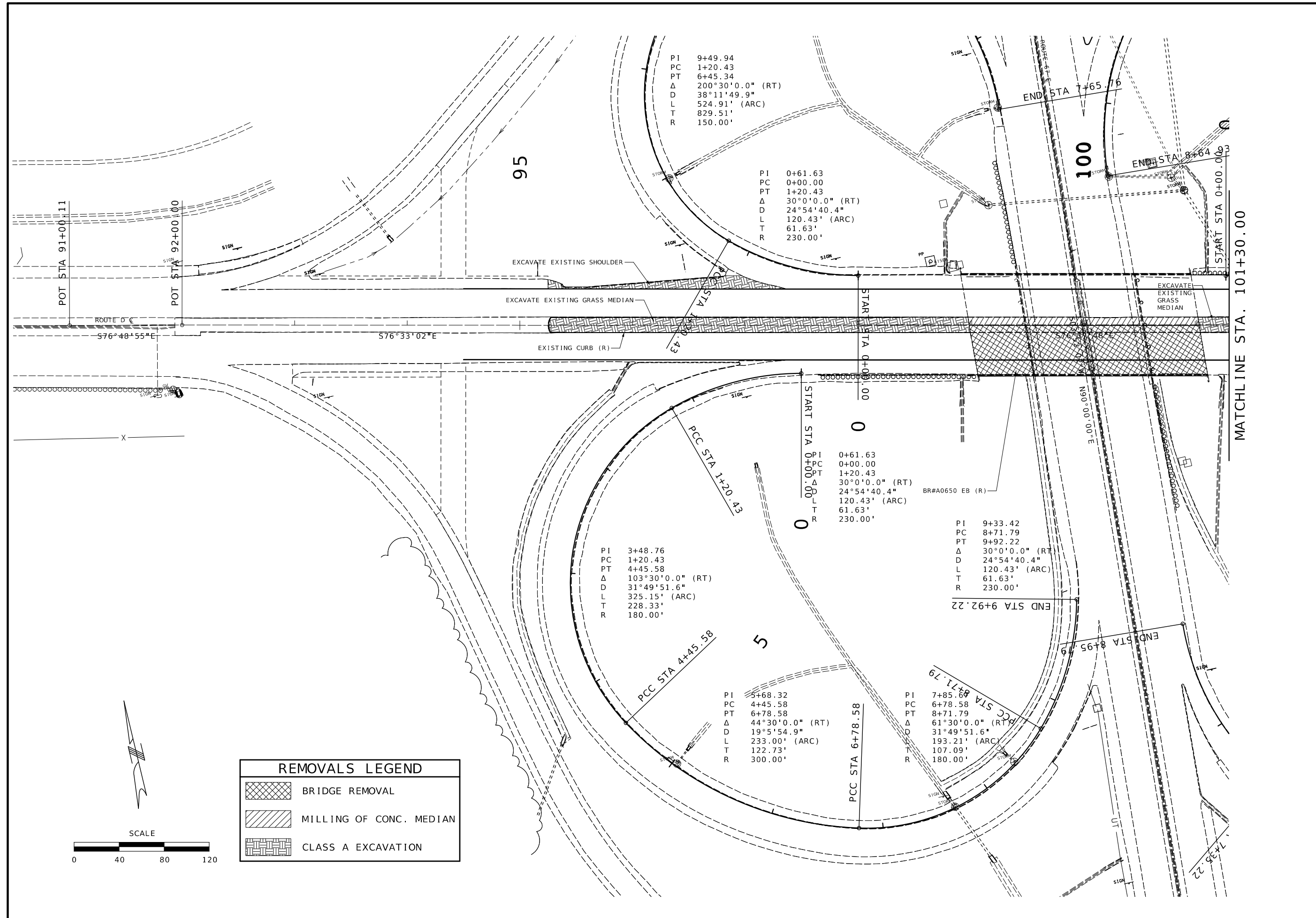
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

PLAN SHEET
STAGE 1A
REMOVALS



PI 9+49.94
PC 1+20.43
PT 6+45.34
 Δ 200°30'0.0" (RT)
D 38°11'49.9"
L 524.91' (ARC)
T 829.51'
R 150.00'

PI 0+61.63
PC 0+00.00
PT 1+20.43
 Δ 30°0'0.0" (RT)
D 24°54'40.4"
L 120.43' (ARC)
T 61.63'
R 230.00'

PI 3+48.76
PC 1+20.43
PT 4+45.58
 Δ 103°30'0.0" (RT)
D 31°49'51.6"
L 325.15' (ARC)
T 228.33'
R 180.00'

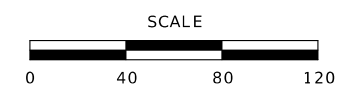
PI 0+61.63
PC 0+00.00
PT 1+20.43
 Δ 30°0'0.0" (RT)
D 24°54'40.4"
L 120.43' (ARC)
T 61.63'
R 230.00'

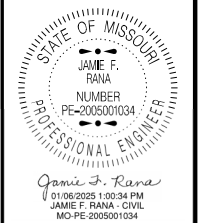
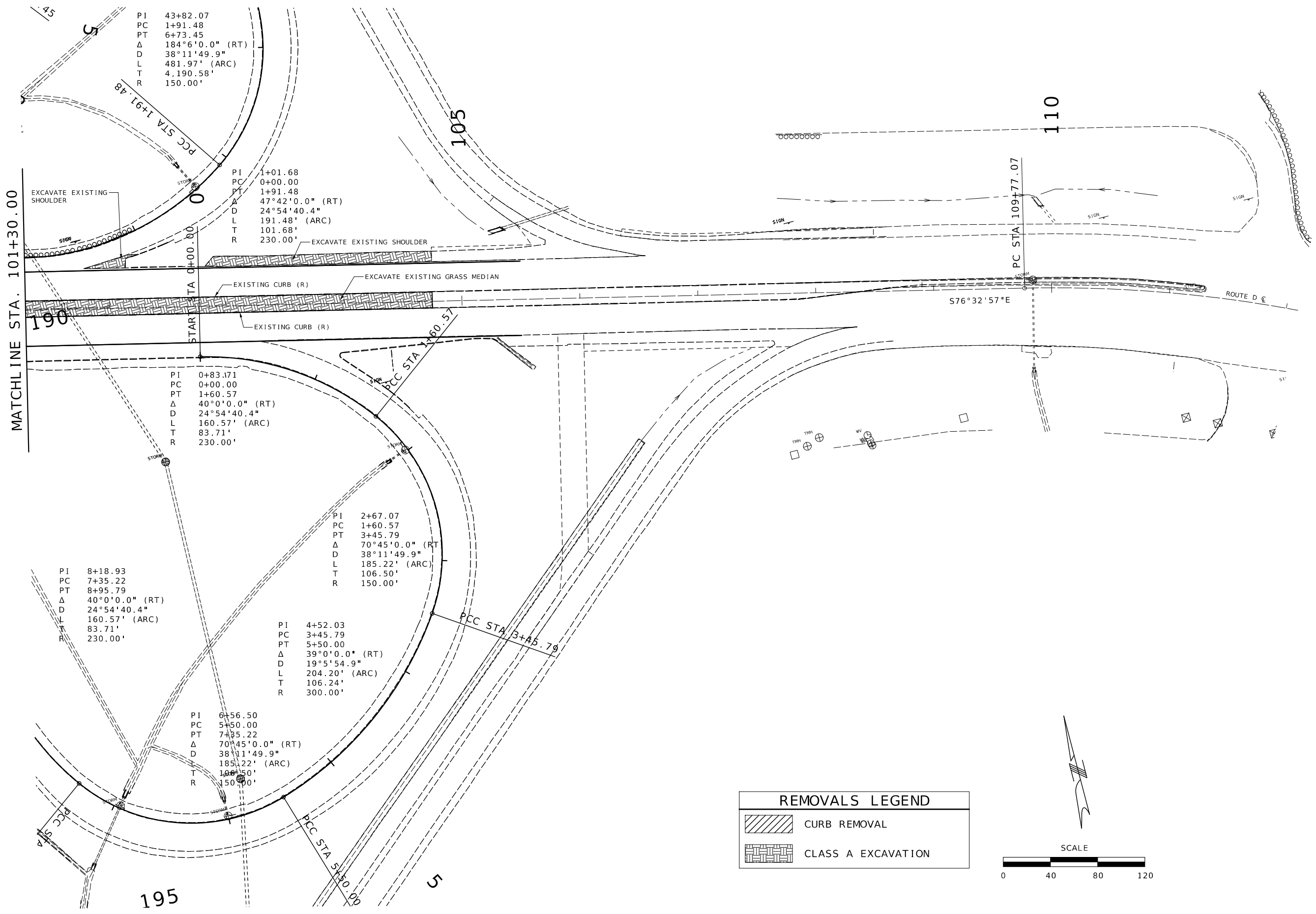
PI 9+33.42
PC 8+71.79
PT 9+92.22
 Δ 30°0'0.0" (RT)
D 24°54'40.4"
L 120.43' (ARC)
T 61.63'
R 230.00'

PI 5+68.32
PC 4+45.58
PT 6+78.58
 Δ 44°30'0.0" (RT)
D 19°5'54.9"
L 233.00' (ARC)
T 122.73'
R 300.00'

PI 7+85.68
PC 6+78.58
PT 8+71.79
 Δ 61°30'0.0" (RT)
D 31°49'51.6"
L 193.21' (ARC)
T 107.09'
R 180.00'

	BRIDGE REMOVAL
	MILLING OF CONC. MEDIAN
	CLASS A EXCAVATION





DATE PREPARED
12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	28

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

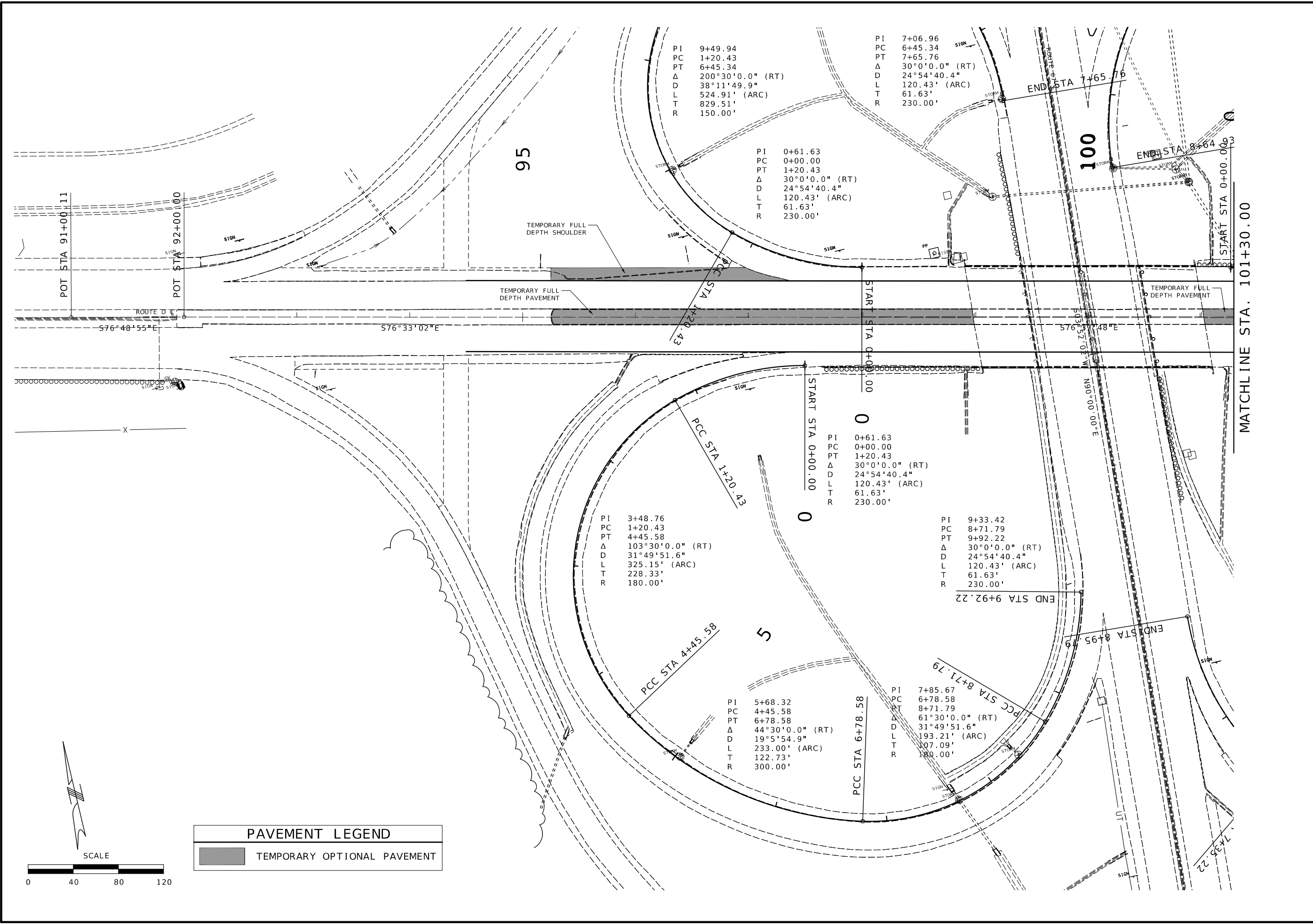
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

PLAN SHEET
STAGE 1A
REMOVALS



PI 9+49.94
 PC 1+20.43
 PT 6+45.34
 Δ 200°30'0.0" (RT)
 D 38°11'49.9"
 L 524.91' (ARC)
 T 829.51'
 R 150.00'

PI 7+06.96
 PC 6+45.34
 PT 7+65.76
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

PI 0+61.63
 PC 0+00.00
 PT 1+20.43
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

PI 0+61.63
 PC 0+00.00
 PT 1+20.43
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

PI 3+48.76
 PC 1+20.43
 PT 4+45.58
 Δ 103°30'0.0" (RT)
 D 31°49'51.6"
 L 325.15' (ARC)
 T 228.33'
 R 180.00'

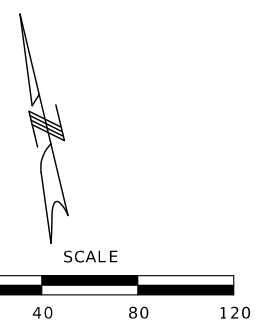
PI 9+33.42
 PC 8+71.79
 PT 9+92.22
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

PI 5+68.32
 PC 4+45.58
 PT 6+78.58
 Δ 44°30'0.0" (RT)
 D 19°5'54.9"
 L 233.00' (ARC)
 T 122.73'
 R 300.00'

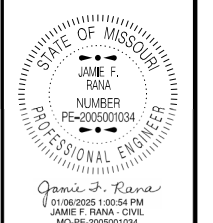
PI 7+85.67
 PC 6+78.58
 PT 8+71.79
 Δ 61°30'0.0" (RT)
 D 31°49'51.6"
 L 193.21' (ARC)
 T 107.09'
 R 180.00'

POT STA 91+00.11
 POT STA 92+00.00

MATCHLINE STA. 101+30.00



PAVEMENT LEGEND	
	TEMPORARY OPTIONAL PAVEMENT



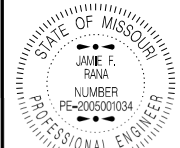
DATE PREPARED
 12/20/2024
 ROUTE D STATE MO
 DISTRICT SL SHEET NO. 29
 COUNTY ST. LOUIS
 JOB NO. J6S3626
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
 STAGE 1A
 PROPOSED



Jamie F. Rana
 01/06/2025 1:02:21 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 12/20/2024

ROUTE STATE
 D MO

DISTRICT SHEET NO.
 SL 35

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

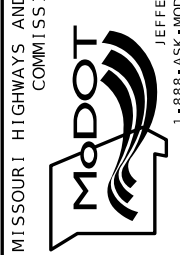
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

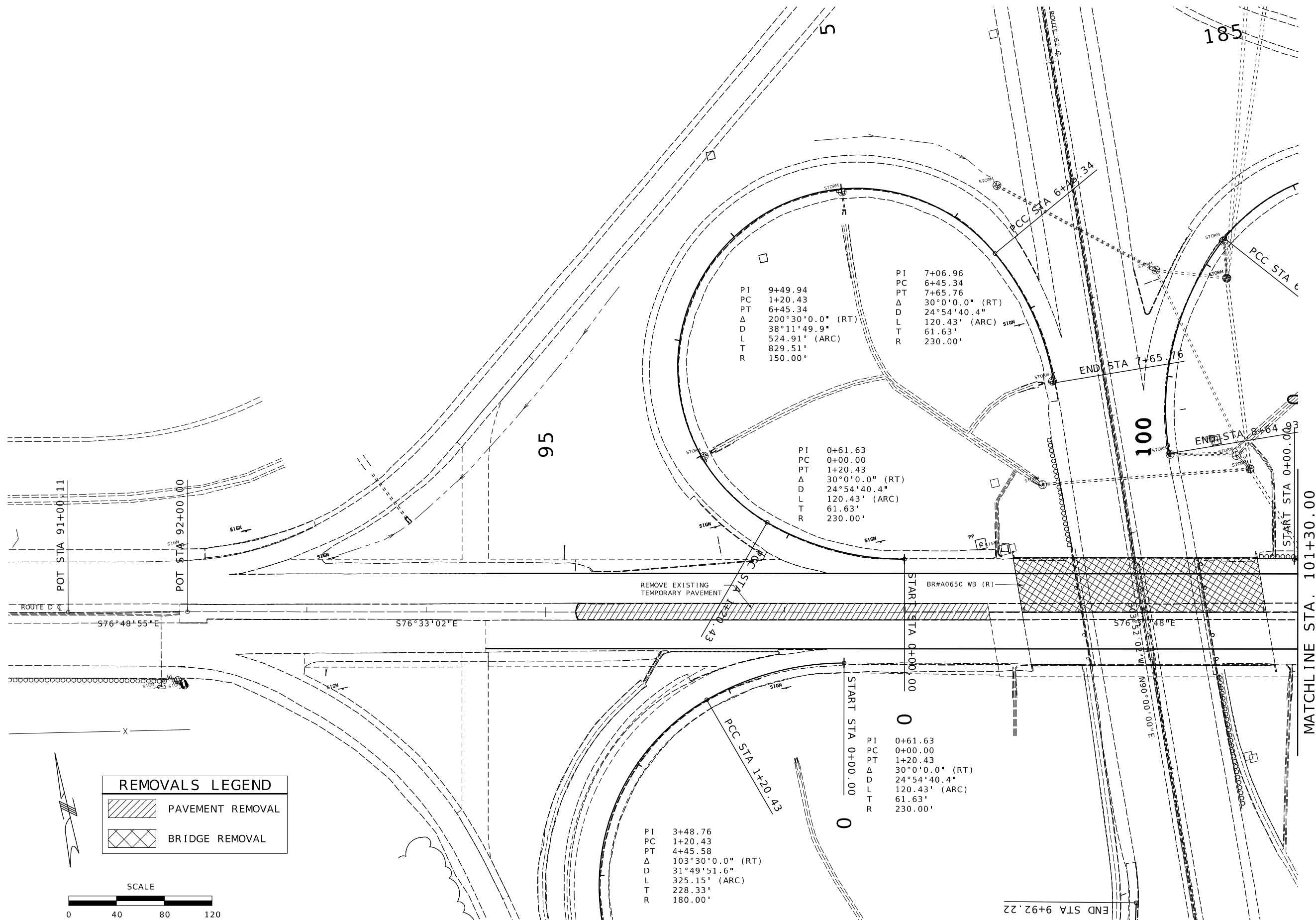
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLAN SHEET
 STAGE 2A
 REMOVALS



PI 9+49.94
 PC 1+20.43
 PT 6+45.34
 Δ 200°30'0.0" (RT)
 D 38°11'49.9"
 L 524.91' (ARC)
 T 829.51'
 R 150.00'

PI 7+06.96
 PC 6+45.34
 PT 7+65.76
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

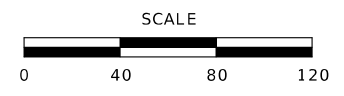
PI 0+61.63
 PC 0+00.00
 PT 1+20.43
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

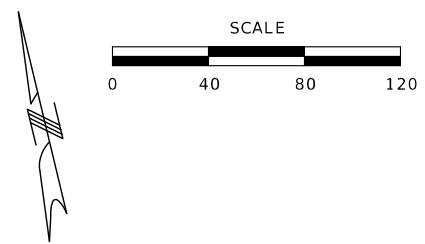
PI 0+61.63
 PC 0+00.00
 PT 1+20.43
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

PI 3+48.76
 PC 1+20.43
 PT 4+45.58
 Δ 103°30'0.0" (RT)
 D 31°49'51.6"
 L 325.15' (ARC)
 T 228.33'
 R 180.00'

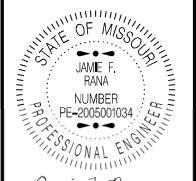
REMOVALS LEGEND

	PAVEMENT REMOVAL
	BRIDGE REMOVAL

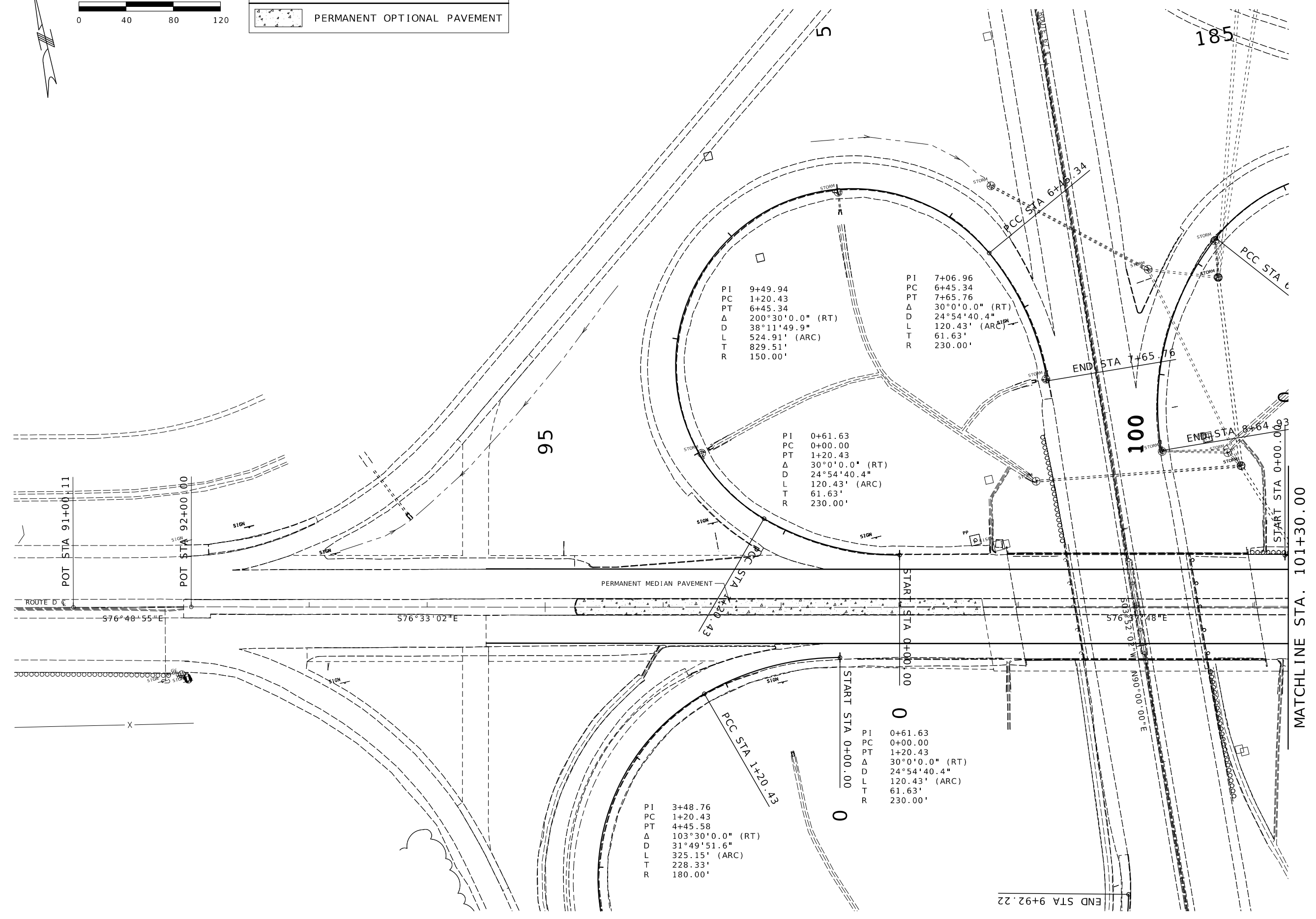




PAVEMENT LEGEND	
	PERMANENT PAVEMENT
	OPTIONAL PAVEMENT



DATE PREPARED 12/20/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 37
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



PI	9+49.94
PC	1+20.43
PT	6+45.34
Δ	200°30'0.0" (RT)
D	38°11'49.9"
L	524.91' (ARC)
T	829.51'
R	150.00'

PI	7+06.96
PC	6+45.34
PT	7+65.76
Δ	30°0'0.0" (RT)
D	24°54'40.4"
L	120.43' (ARC)
T	61.63'
R	230.00'

PI	0+61.63
PC	0+00.00
PT	1+20.43
Δ	30°0'0.0" (RT)
D	24°54'40.4"
L	120.43' (ARC)
T	61.63'
R	230.00'

PI	3+48.76
PC	1+20.43
PT	4+45.58
Δ	103°30'0.0" (RT)
D	31°49'51.6"
L	325.15' (ARC)
T	228.33'
R	180.00'

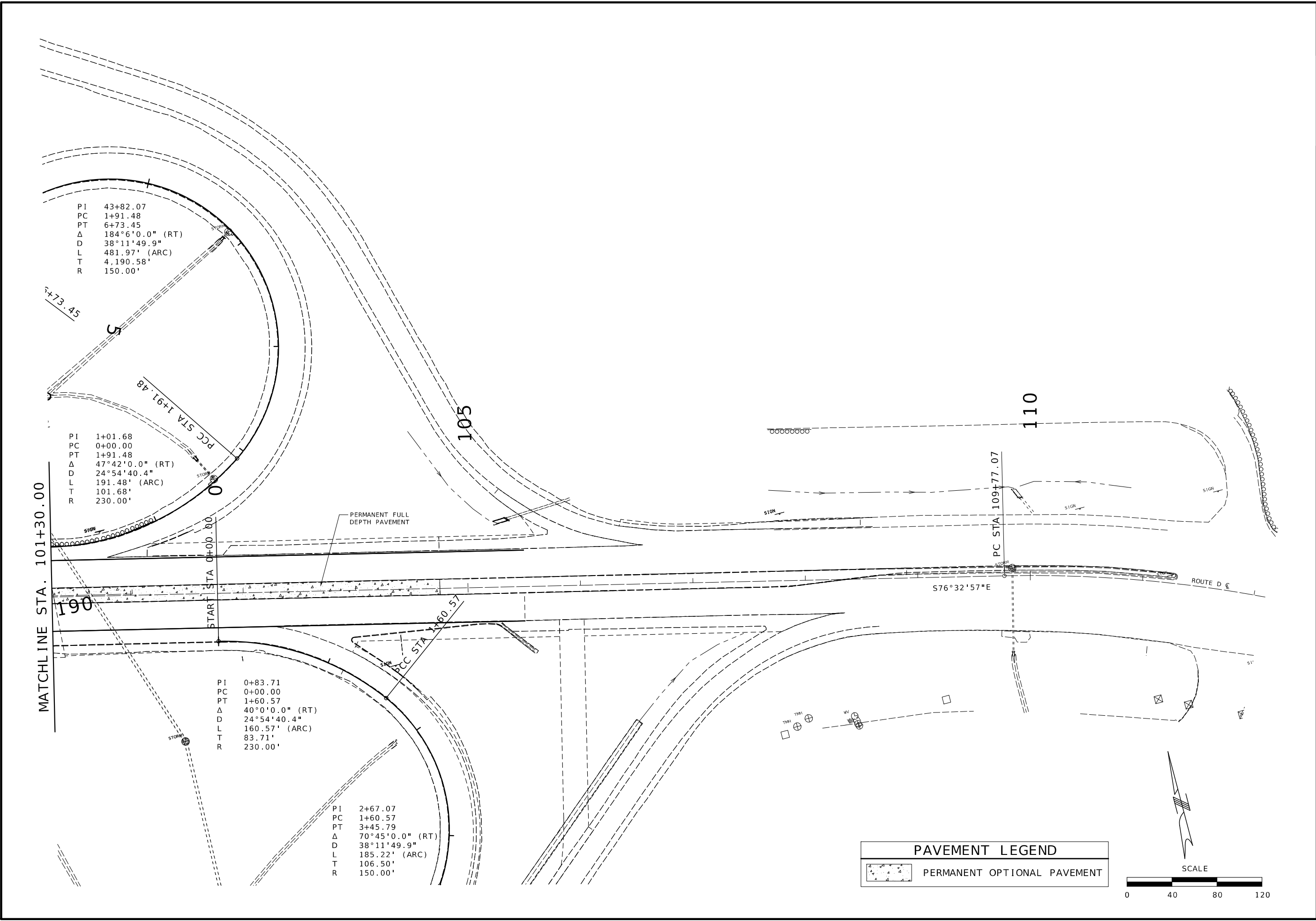
PI	0+61.63
PC	0+00.00
PT	1+20.43
Δ	30°0'0.0" (RT)
D	24°54'40.4"
L	120.43' (ARC)
T	61.63'
R	230.00'

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
STAGE 2A
PROPOSED



PI 43+82.07
 PC 1+91.48
 PT 6+73.45
 Δ 184°6'0.0" (RT)
 D 38°11'49.9"
 L 481.97' (ARC)
 T 4,190.58'
 R 150.00'

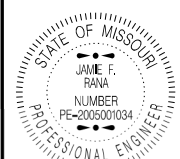
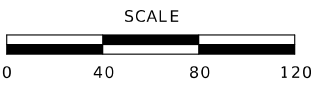
PI 1+01.68
 PC 0+00.00
 PT 1+91.48
 Δ 47°42'0.0" (RT)
 D 24°54'40.4"
 L 191.48' (ARC)
 T 101.68'
 R 230.00'

PI 0+83.71
 PC 0+00.00
 PT 1+60.57
 Δ 40°0'0.0" (RT)
 D 24°54'40.4"
 L 160.57' (ARC)
 T 83.71'
 R 230.00'

PI 2+67.07
 PC 1+60.57
 PT 3+45.79
 Δ 70°45'0.0" (RT)
 D 38°11'49.9"
 L 185.22' (ARC)
 T 106.50'
 R 150.00'

PAVEMENT LEGEND


 PERMANENT OPTIONAL PAVEMENT



Jamie F. Rana
 01/08/2025 1:21:02 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	38

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

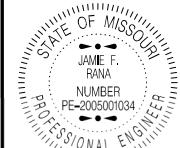
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

PLAN SHEET
 STAGE 2A
 PROPOSED



JAMIE F. RANA
 PE-2005001034
 MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED
 12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	39

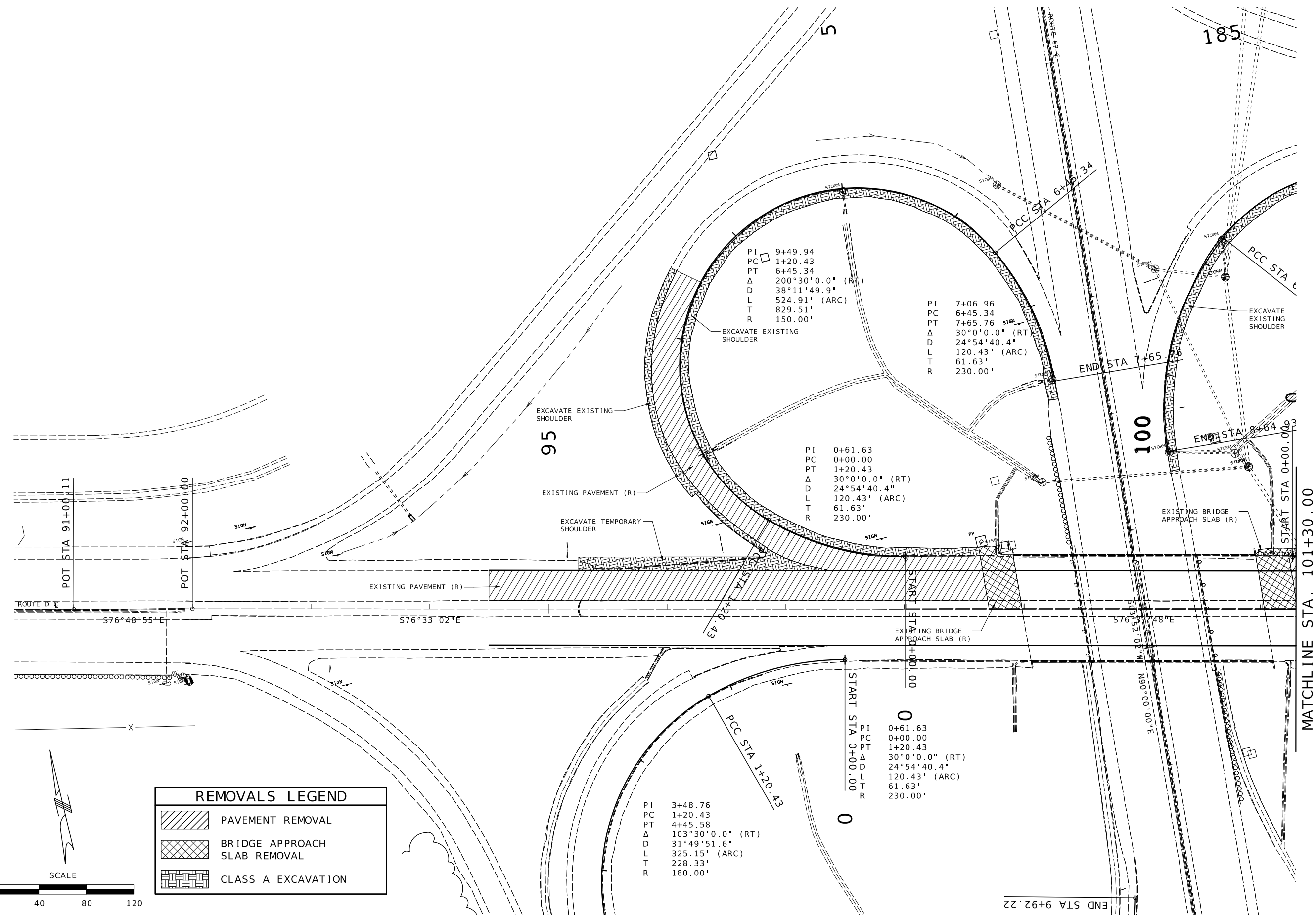
COUNTY
 ST. LOUIS
 JOB NO.
 J6S3626
 CONTRACT ID.

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)

PLAN SHEET
 STAGE 2B
 REMOVALS



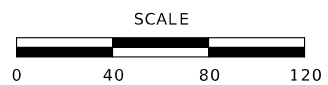
PI 9+49.94
 PC 1+20.43
 PT 6+45.34
 Δ 200°30'0.0" (RT)
 D 38°11'49.9"
 L 524.91' (ARC)
 T 829.51'
 R 150.00'

PI 7+06.96
 PC 6+45.34
 PT 7+65.76
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

PI 0+61.63
 PC 0+00.00
 PT 1+20.43
 Δ 30°0'0.0" (RT)
 D 24°54'40.4"
 L 120.43' (ARC)
 T 61.63'
 R 230.00'

PI 3+48.76
 PC 1+20.43
 PT 4+45.58
 Δ 103°30'0.0" (RT)
 D 31°49'51.6"
 L 325.15' (ARC)
 T 228.33'
 R 180.00'

REMOVALS LEGEND	
	PAVEMENT REMOVAL
	BRIDGE APPROACH SLAB REMOVAL
	CLASS A EXCAVATION



SCALE

MATCHLINE STA. 101+30.00

ROUTE D
 POT STA 91+00.11
 POT STA 92+00.00
 S76°48'55"E
 S76°33'02"E
 S76°32'48"E
 S76°32'48"E
 N90°00'00"E

PCC STA 1+20.43

END STA 9+92.22

START STA 0+00.00

END STA 7+65.76

END STA 8+64.06

START STA 0+00.00

START STA 1+00.00

START STA 0+00.00

START STA 1+00.00

START STA 2+00.00

START STA 3+00.00

START STA 4+00.00

START STA 5+00.00

START STA 6+00.00

START STA 7+00.00

START STA 8+00.00

START STA 9+00.00

START STA 10+00.00

START STA 11+00.00

START STA 12+00.00

START STA 13+00.00

START STA 14+00.00

START STA 15+00.00

START STA 16+00.00

START STA 17+00.00

START STA 18+00.00

START STA 19+00.00

START STA 20+00.00

START STA 21+00.00

START STA 22+00.00

START STA 23+00.00

START STA 24+00.00

START STA 25+00.00

START STA 26+00.00

START STA 27+00.00

START STA 28+00.00

START STA 29+00.00

START STA 30+00.00

START STA 31+00.00

START STA 32+00.00

START STA 33+00.00

START STA 34+00.00

START STA 35+00.00

START STA 36+00.00

START STA 37+00.00

START STA 38+00.00

START STA 39+00.00

START STA 40+00.00

START STA 41+00.00

START STA 42+00.00

START STA 43+00.00

START STA 44+00.00

START STA 45+00.00

START STA 46+00.00

START STA 47+00.00

START STA 48+00.00

START STA 49+00.00

START STA 50+00.00

START STA 51+00.00

START STA 52+00.00

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START STA 55+00.00

START STA 56+00.00

START STA 57+00.00

START STA 58+00.00

START STA 59+00.00

START STA 60+00.00

START STA 61+00.00

START STA 62+00.00

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START STA 64+00.00

START STA 65+00.00

START STA 66+00.00

START STA 67+00.00

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START STA 69+00.00

START STA 70+00.00

START STA 71+00.00

START STA 72+00.00

START STA 73+00.00

START STA 74+00.00

START STA 75+00.00

START STA 76+00.00

START STA 77+00.00

START STA 78+00.00

START STA 79+00.00

START STA 80+00.00

START STA 81+00.00

START STA 82+00.00

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START STA 84+00.00

START STA 85+00.00

START STA 86+00.00

START STA 87+00.00

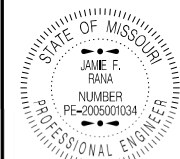
START STA 88+00.00

START STA 89+00.00

START STA 90+00.00

START STA 91+00.00

START STA 92+00.00



Jamie F. Rana
01/06/2025 1:21:41 PM
JAMIE F. RANA - CIVIL
MO-PE-200501034

DATE PREPARED
12/20/2024

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	40

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

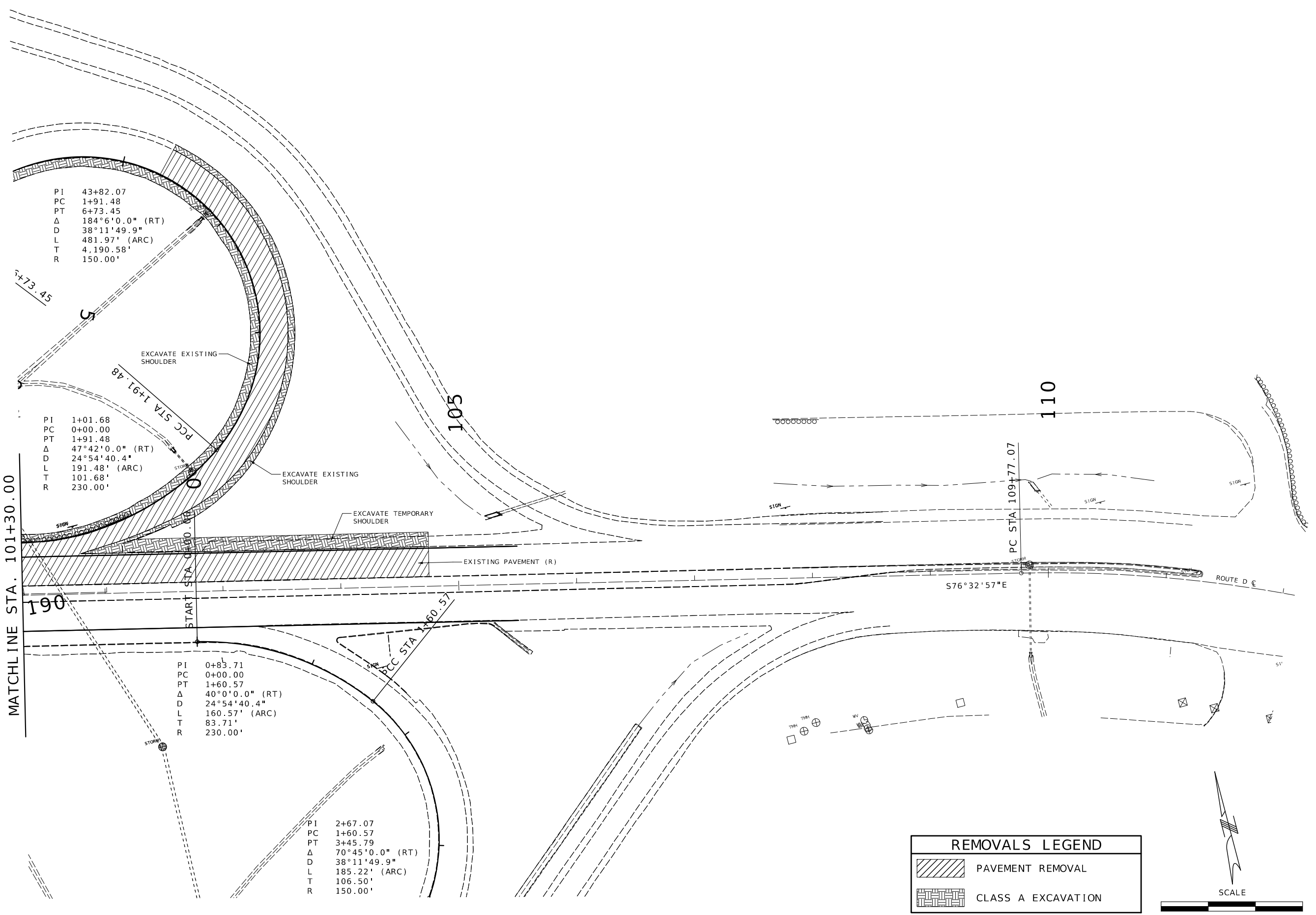
BRIDGE NO.

DATE	DESCRIPTION

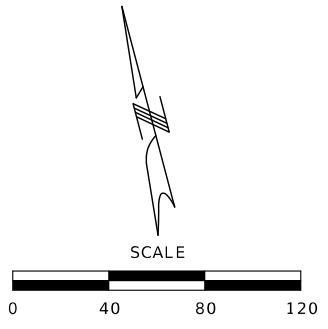
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

**PLAN SHEET
STAGE 2B
REMOVALS**



REMOVALS LEGEND	
	PAVEMENT REMOVAL
	CLASS A EXCAVATION



STATE OF MISSOURI
 JAMIE F. RANA
 NUMBER
 PE-2005001034
 PROFESSIONAL ENGINEER

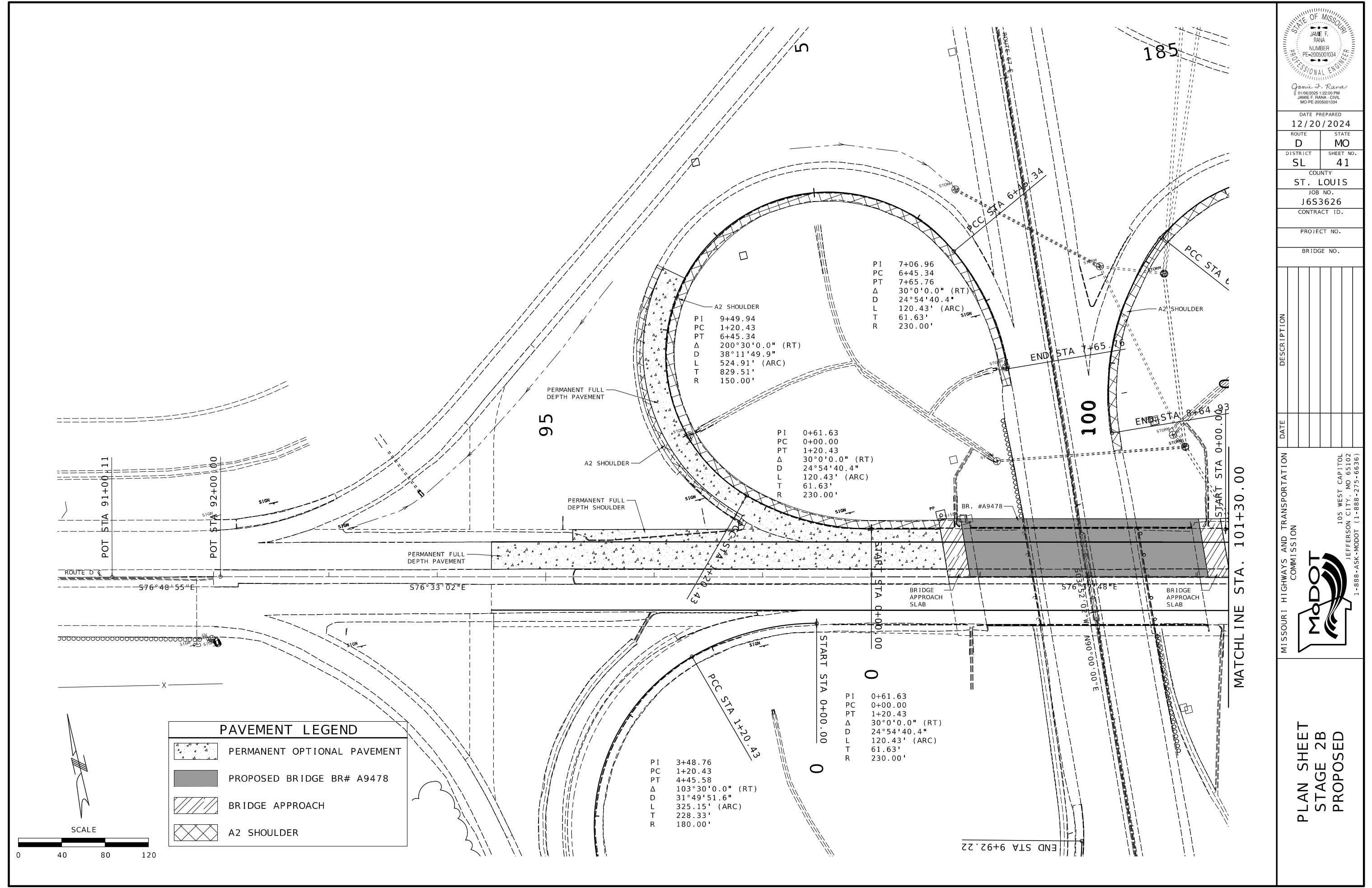
DATE PREPARED
 12/20/2024
 ROUTE STATE
 D MO
 DISTRICT SHEET NO.
 SL 41
 COUNTY
 ST. LOUIS
 JOB NO.
 J6S3626
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

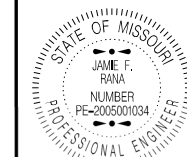
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
 STAGE 2B
 PROPOSED





Jamie F. Rana
01/06/2025 1:22:18 PM
JAMIE F. RANA - CIVIL
MO-PE-200501034

DATE PREPARED
12/20/2024

ROUTE D STATE MO

DISTRICT SL SHEET NO. 42

COUNTY ST. LOUIS

JOB NO. J6S3626

CONTRACT ID.

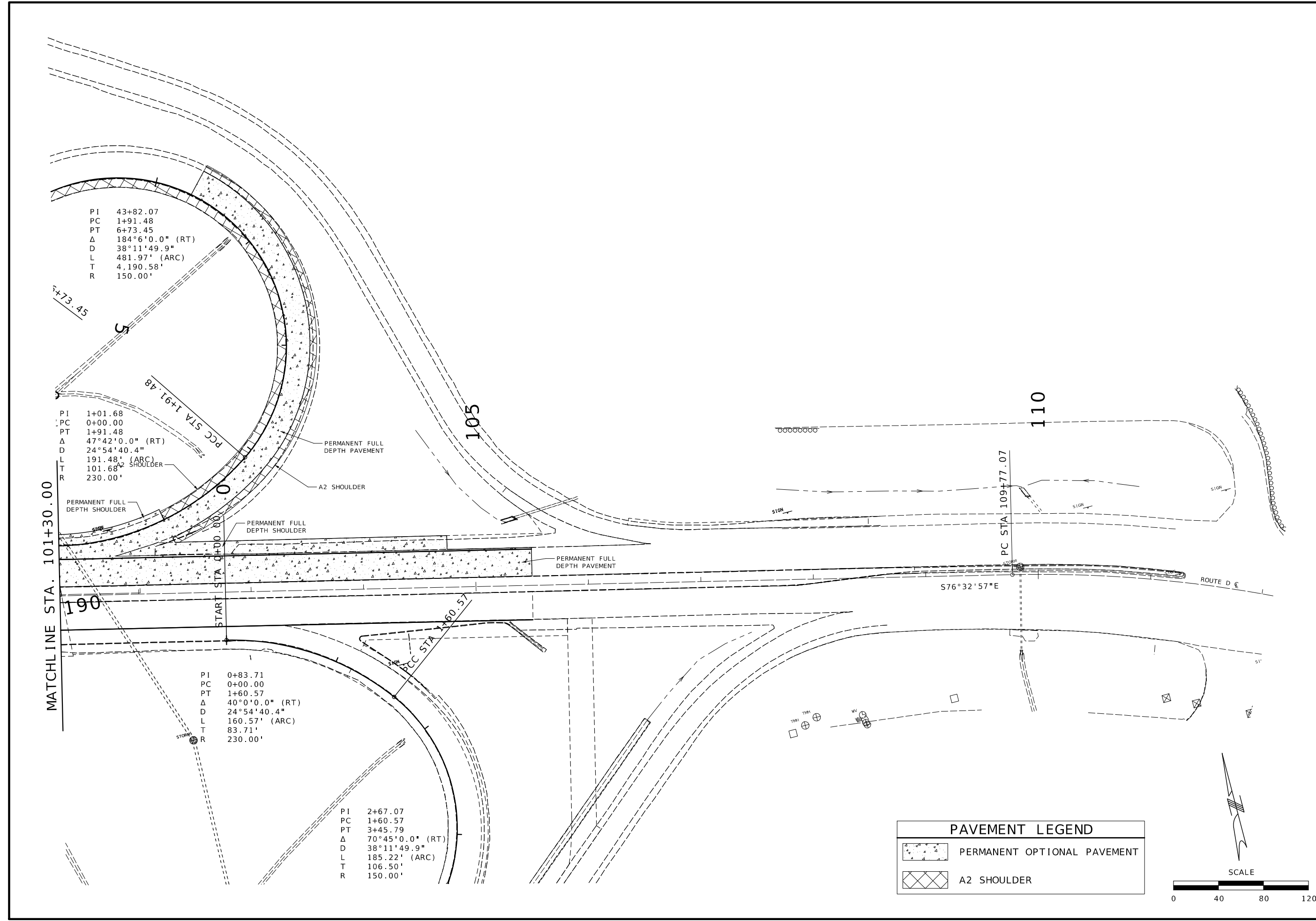
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

PLAN SHEET
STAGE 2B
PROPOSED

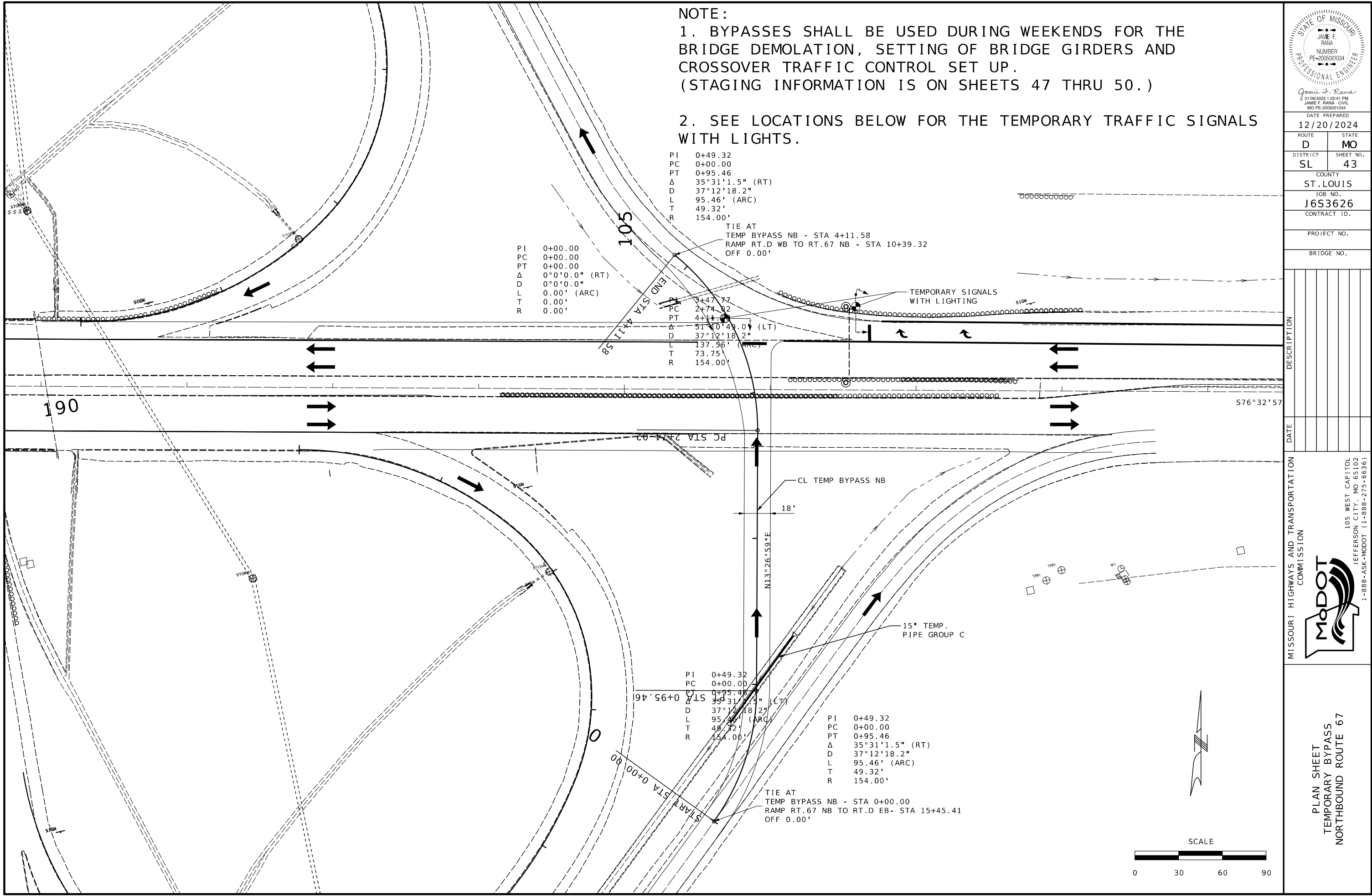


	PERMANENT OPTIONAL PAVEMENT
	A2 SHOULDER

NOTE:

1. BYPASSES SHALL BE USED DURING WEEKENDS FOR THE BRIDGE DEMOLITION, SETTING OF BRIDGE GIRDERS AND CROSSOVER TRAFFIC CONTROL SET UP.
(STAGING INFORMATION IS ON SHEETS 47 THRU 50.)

2. SEE LOCATIONS BELOW FOR THE TEMPORARY TRAFFIC SIGNALS WITH LIGHTS.



PI 0+00.00
PC 0+00.00
PT 0+00.00
Δ 0°0'0.0" (RT)
D 0°0'0.0"
L 0.00' (ARC)
T 0.00'
R 0.00'

PI 0+49.32
PC 0+00.00
PT 0+95.46
Δ 35°31'1.5" (RT)
D 37°12'18.2"
L 95.46' (ARC)
T 49.32'
R 154.00'

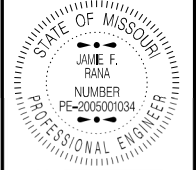
PI 0+47.77
PC 2+74.02
PT 4+11.58
Δ 51°0'49.0" (LT)
D 37°12'18.2"
L 137.56' (ARC)
T 73.75'
R 154.00'

PI 0+49.32
PC 0+00.00
PT 0+95.46
Δ 35°31'1.5" (RT)
D 37°12'18.2"
L 95.46' (ARC)
T 49.32'
R 154.00'

PI 0+49.32
PC 0+00.00
PT 0+95.46
Δ 35°31'1.5" (RT)
D 37°12'18.2"
L 95.46' (ARC)
T 49.32'
R 154.00'

TIE AT
TEMP BYPASS NB - STA 0+00.00
RAMP RT.67 NB TO RT.D EB- STA 15+45.41
OFF 0.00'

TIE AT
TEMP BYPASS NB - STA 4+11.58
RAMP RT.D WB TO RT.67 NB - STA 10+39.32
OFF 0.00'



Jamie F. Rana
01/06/2025 1:22:41 PM
JAMIE F. RANA - CIVIL
MO-PE-200501034

DATE PREPARED
12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	43

COUNTY
ST. LOUIS
JOB NO.
J6S3626
CONTRACT ID.

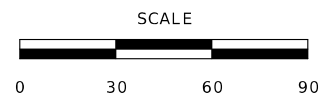
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
TEMPORARY BYPASS
NORTHBOUND ROUTE 67

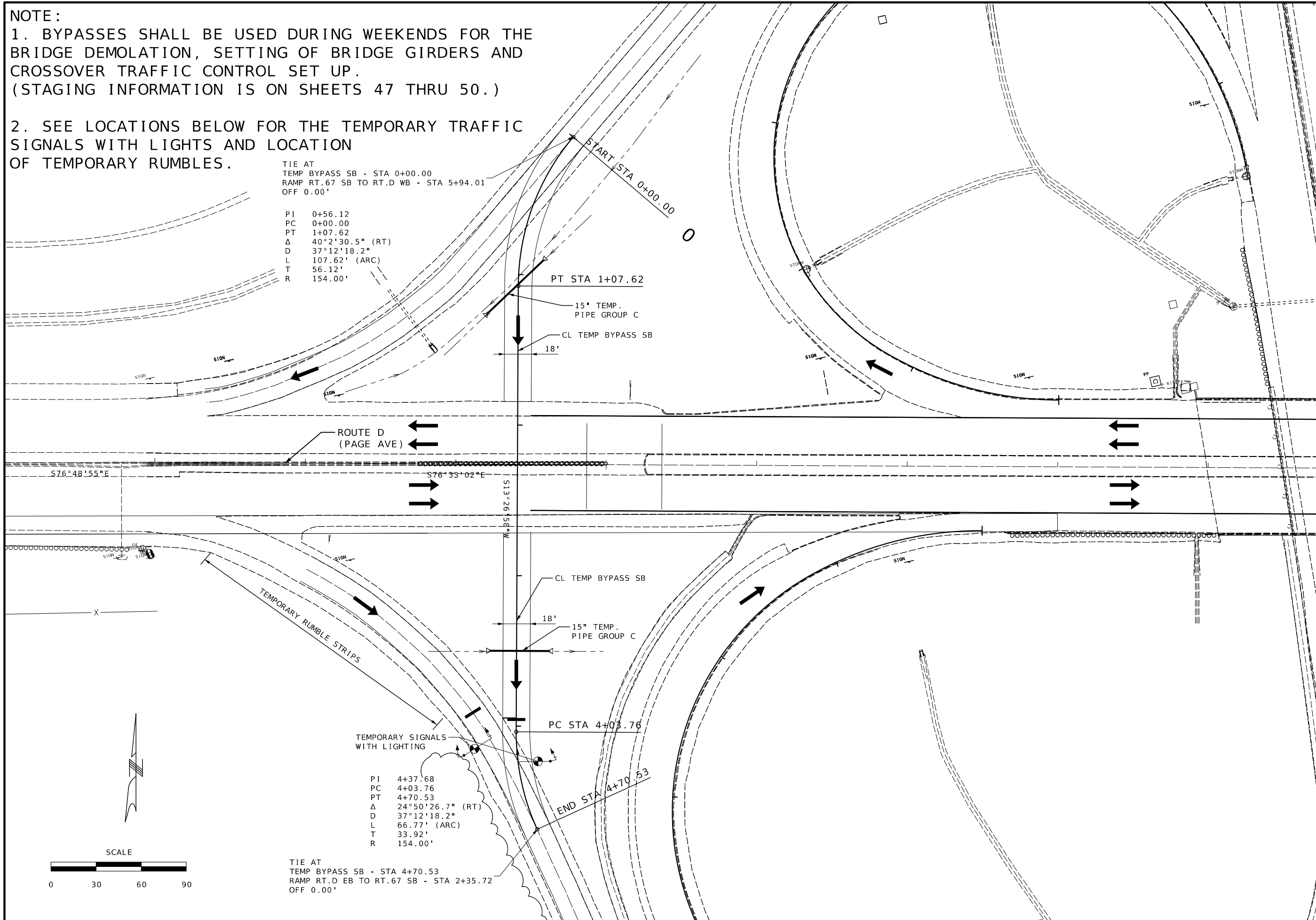


NOTE :
 1. BYPASSES SHALL BE USED DURING WEEKENDS FOR THE BRIDGE DEMOLITION, SETTING OF BRIDGE GIRDERS AND CROSSOVER TRAFFIC CONTROL SET UP.
 (STAGING INFORMATION IS ON SHEETS 47 THRU 50.)

2. SEE LOCATIONS BELOW FOR THE TEMPORARY TRAFFIC SIGNALS WITH LIGHTS AND LOCATION OF TEMPORARY RUMBLES.

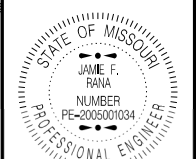
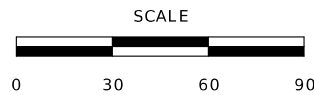
TIE AT
 TEMP BYPASS SB - STA 0+00.00
 RAMP RT.67 SB TO RT.D WB - STA 5+94.01
 OFF 0.00'

PI 0+56.12
 PC 0+00.00
 PT 1+07.62
 Δ 40°2'30.5" (RT)
 D 37°12'18.2"
 L 107.62' (ARC)
 T 56.12'
 R 154.00'



TIE AT
 TEMP BYPASS SB - STA 4+70.53
 RAMP RT.D EB TO RT.67 SB - STA 2+35.72
 OFF 0.00'

PI 4+37.68
 PC 4+03.76
 PT 4+70.53
 Δ 24°50'26.7" (RT)
 D 37°12'18.2"
 L 66.77' (ARC)
 T 33.92'
 R 154.00'



Jamie F. Rana
 01/06/2025 1:29:06 PM
 JAMIE F. RANA - CIVIL
 MO-PE-200501034

DATE PREPARED
 12/20/2024

ROUTE	STATE
D	MO

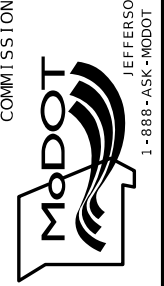
DISTRICT	SHEET NO.
SL	44

COUNTY
 ST. LOUIS
 JOB NO.
 J6S3626
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



PLAN SHEET
 TEMPORARY BYPASS
 SOUTHBOUND ROUTE 67



Jamie F. Rana
 01/06/2025 1:23:37 PM
 JAMIE F. RANA - CIVIL
 MO-PE-200501034

DATE PREPARED
 12/20/2024

ROUTE D STATE MO
 DISTRICT SL SHEET NO. 45

COUNTY
 ST. LOUIS
 JOB NO.
 J6S3626
 CONTRACT ID.

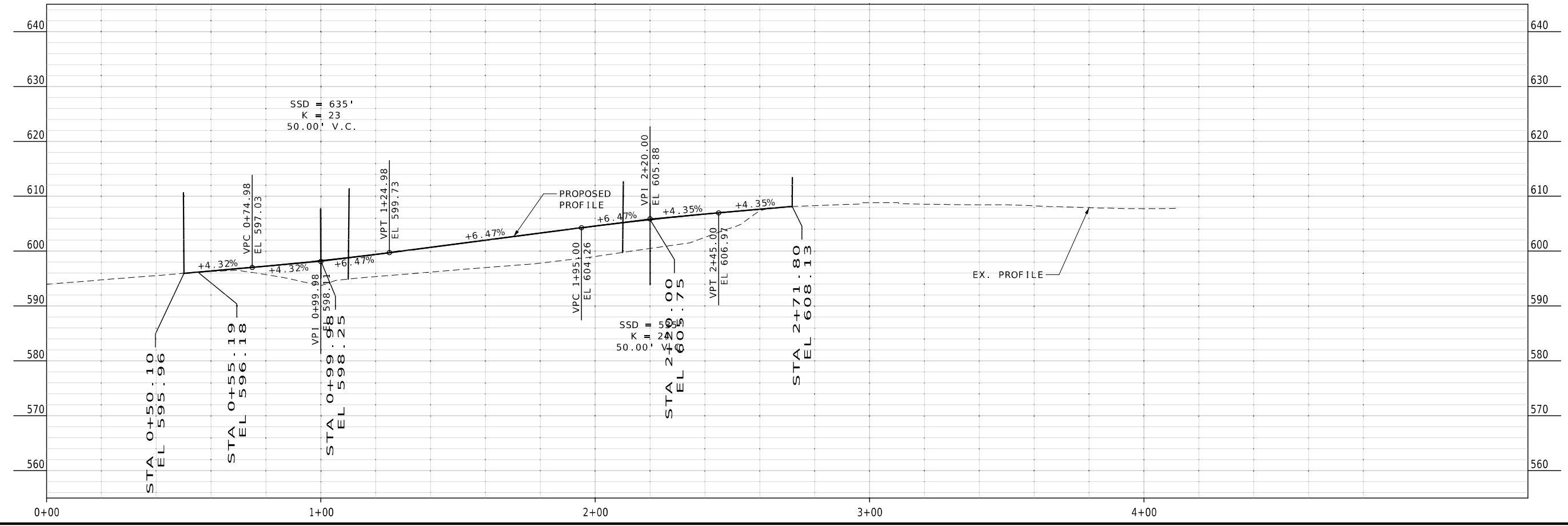
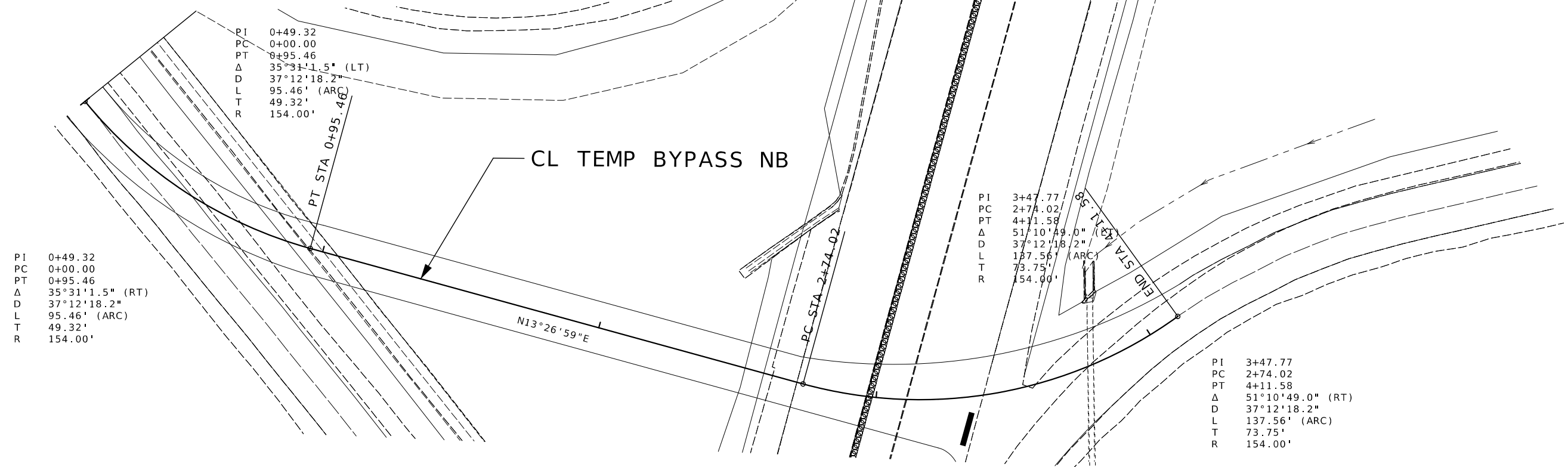
PROJECT NO.
 BRIDGE NO.

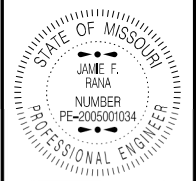
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
 NB US 67 TEMP. BYPASS
 DURING BRIDGE DEMOLITION
 OPERATIONS





Jamie F. Rana
01/06/2025 1:24:10 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
12/20/2024

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 46

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

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DATE DESCRIPTION

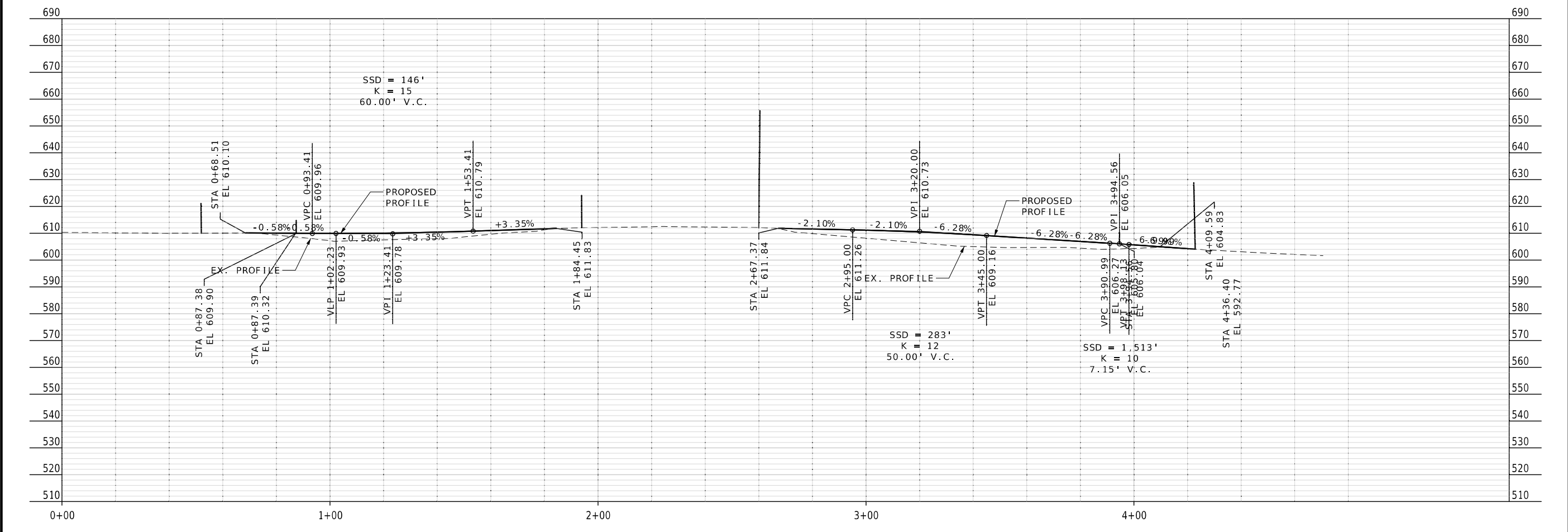
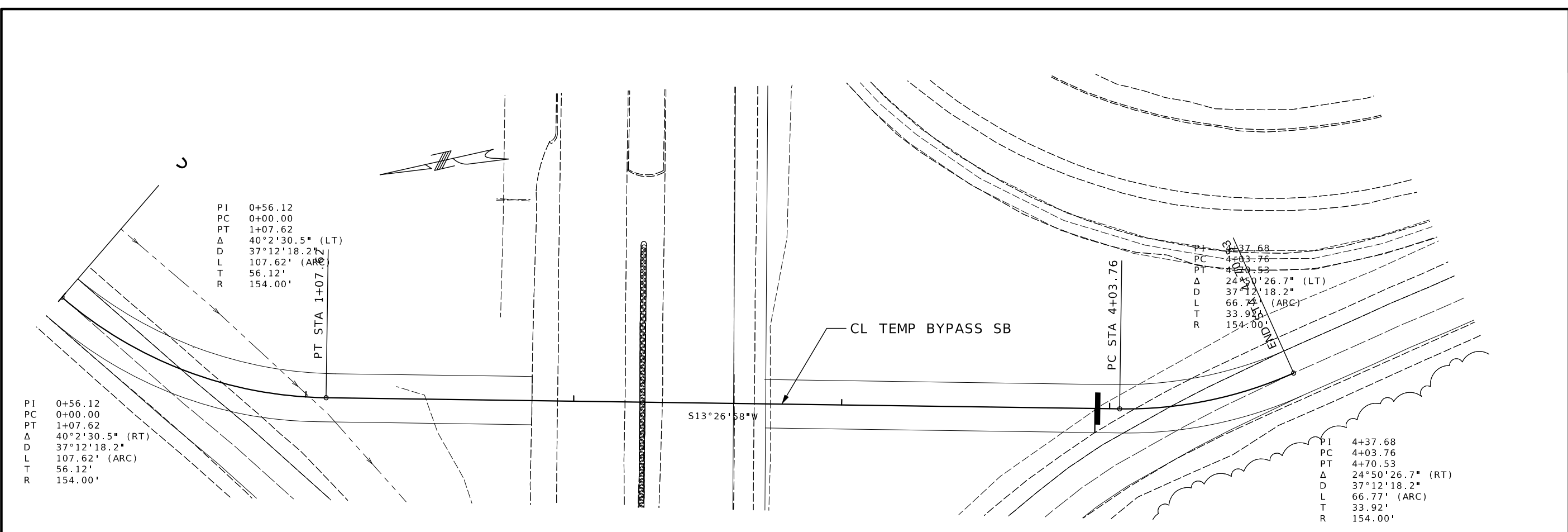
DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

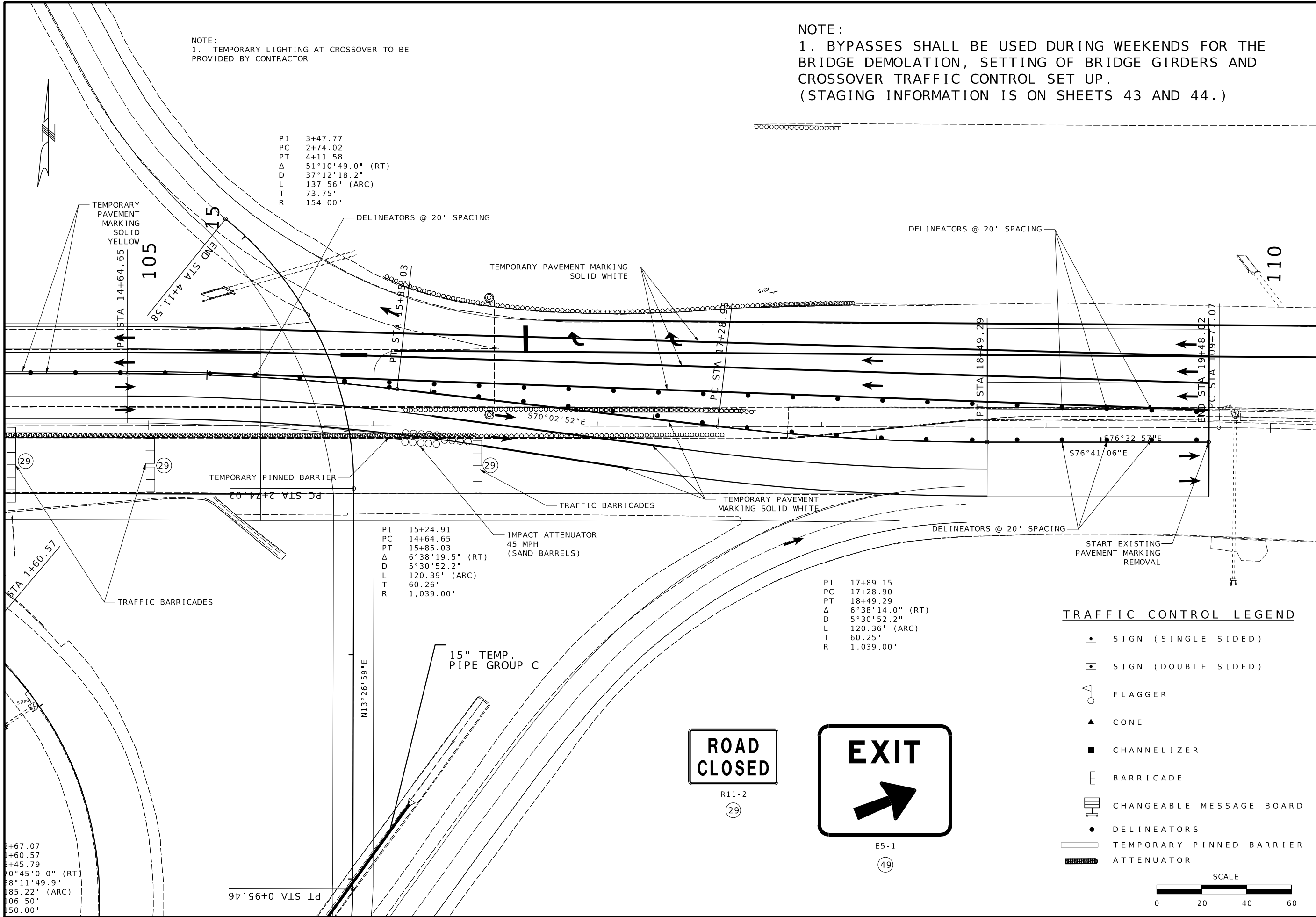


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL PLANS
SB US 67 TEMP. BYPASS
DURING BRIDGE DEMOLITION
OPERATIONS

NOTE:
 1. TEMPORARY LIGHTING AT CROSSOVER TO BE PROVIDED BY CONTRACTOR

NOTE:
 1. BYPASSES SHALL BE USED DURING WEEKENDS FOR THE BRIDGE DEMOLITION, SETTING OF BRIDGE GIRDERS AND CROSSOVER TRAFFIC CONTROL SET UP.
 (STAGING INFORMATION IS ON SHEETS 43 AND 44.)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◩ SIGN (DOUBLE SIDED)
- ◌ FLAGGER
- ▲ CONE
- CHANNELIZER
- ⊥ BARRICADE
- ▮ CHANGEABLE MESSAGE BOARD
- DELINEATORS
- ▭ TEMPORARY PINNED BARRIER
- ▨ ATTENUATOR



ROAD CLOSED

R11-2

(29)



E5-1

(49)

DATE PREPARED: 12/23/2024
 ROUTE: D STATE: MO
 DISTRICT: SL SHEET NO.: 48
 COUNTY: ST. LOUIS
 JOB NO.: J6S3626
 CONTRACT ID.:

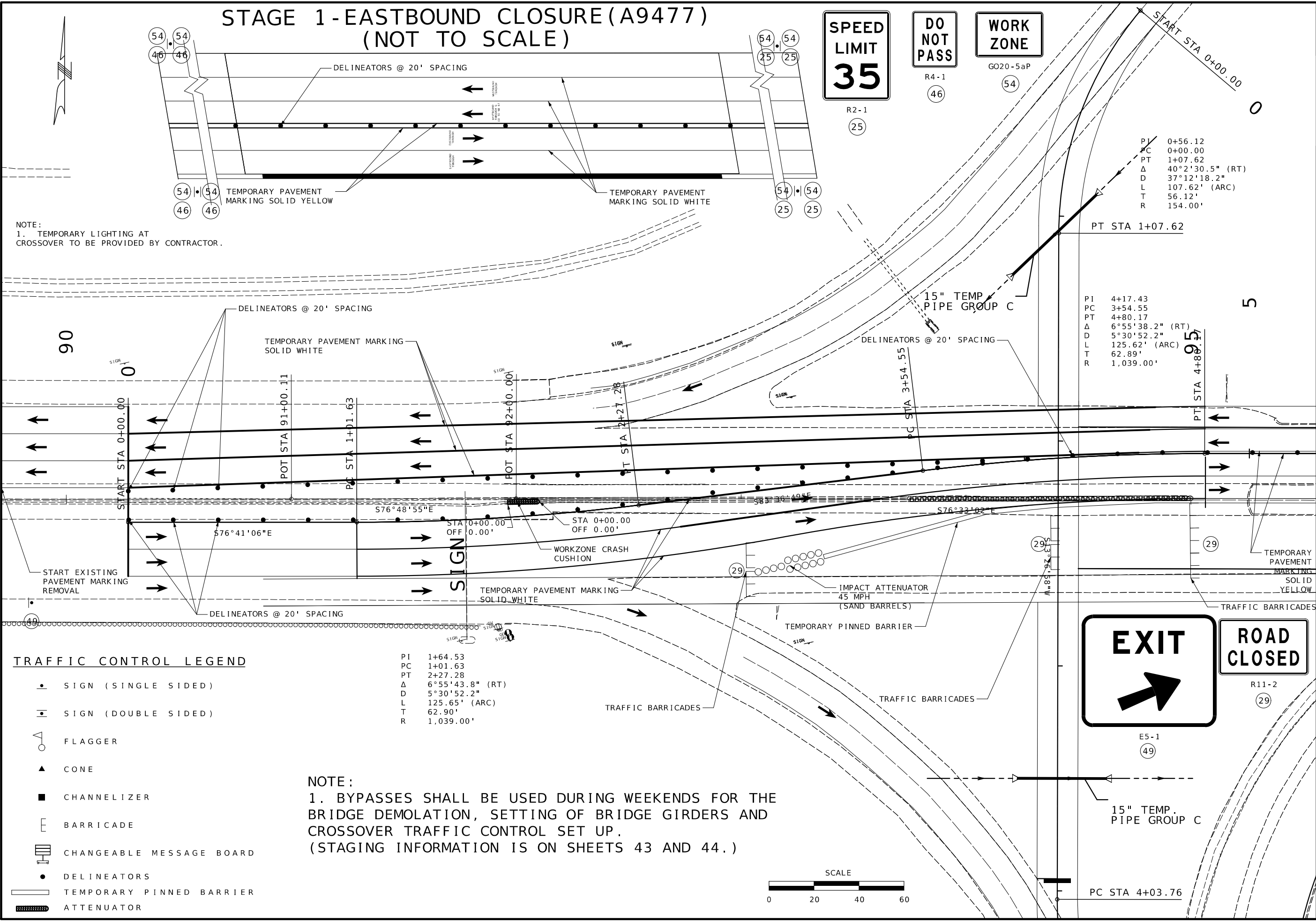
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
 EB BRIDGE MEDIAN CROSSOVER
 SHEET 2

STAGE 1 - EASTBOUND CLOSURE (A9477) (NOT TO SCALE)



SPEED LIMIT
35

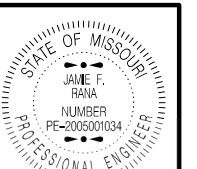
R2-1
25

DO NOT PASS

R4-1
46

WORK ZONE

GO20-5aP
54



DATE PREPARED
12/23/2024

ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 47
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	

NOTE:
1. TEMPORARY LIGHTING AT CROSSOVER TO BE PROVIDED BY CONTRACTOR.

PI 0+56.12
PC 0+00.00
PT 1+07.62
Δ 40°2'30.5" (RT)
D 37°12'18.2"
L 107.62' (ARC)
T 56.12'
R 154.00'

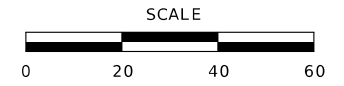
PI 4+17.43
PC 3+54.55
PT 4+80.17
Δ 6°55'38.2" (RT)
D 5°30'52.2"
L 125.62' (ARC)
T 62.89'
R 1,039.00'

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- DELINEATORS
- TEMPORARY PINNED BARRIER
- ATTENUATOR

PI 1+64.53
PC 1+01.63
PT 2+27.28
Δ 6°55'43.8" (RT)
D 5°30'52.2"
L 125.65' (ARC)
T 62.90'
R 1,039.00'

NOTE:
1. BYPASSES SHALL BE USED DURING WEEKENDS FOR THE BRIDGE DEMOLATION, SETTING OF BRIDGE GIRDERS AND CROSSOVER TRAFFIC CONTROL SET UP. (STAGING INFORMATION IS ON SHEETS 43 AND 44.)



DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

TRAFFIC CONTROL SHEET
EB BRIDGE MEDIAN CROSSOVER
SHEET 1

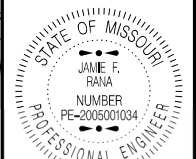
STAGE 2 - WESTBOUND CLOSURE (A9478) (NOT TO SCALE)

NOTE:
1. TEMPORARY LIGHTING AT CROSSOVER
TO BE PROVIDED BY CONTRACTOR

SPEED LIMIT 35
R2-1 (25)

DO NOT PASS
R4-1 (46)

WORK ZONE
GO20-5aP (54)



DATE PREPARED
2/12/2025

ROUTE D STATE MO
DISTRICT SL SHEET NO. 49
COUNTY ST. LOUIS

JOB NO.
J6S3626
CONTRACT ID.

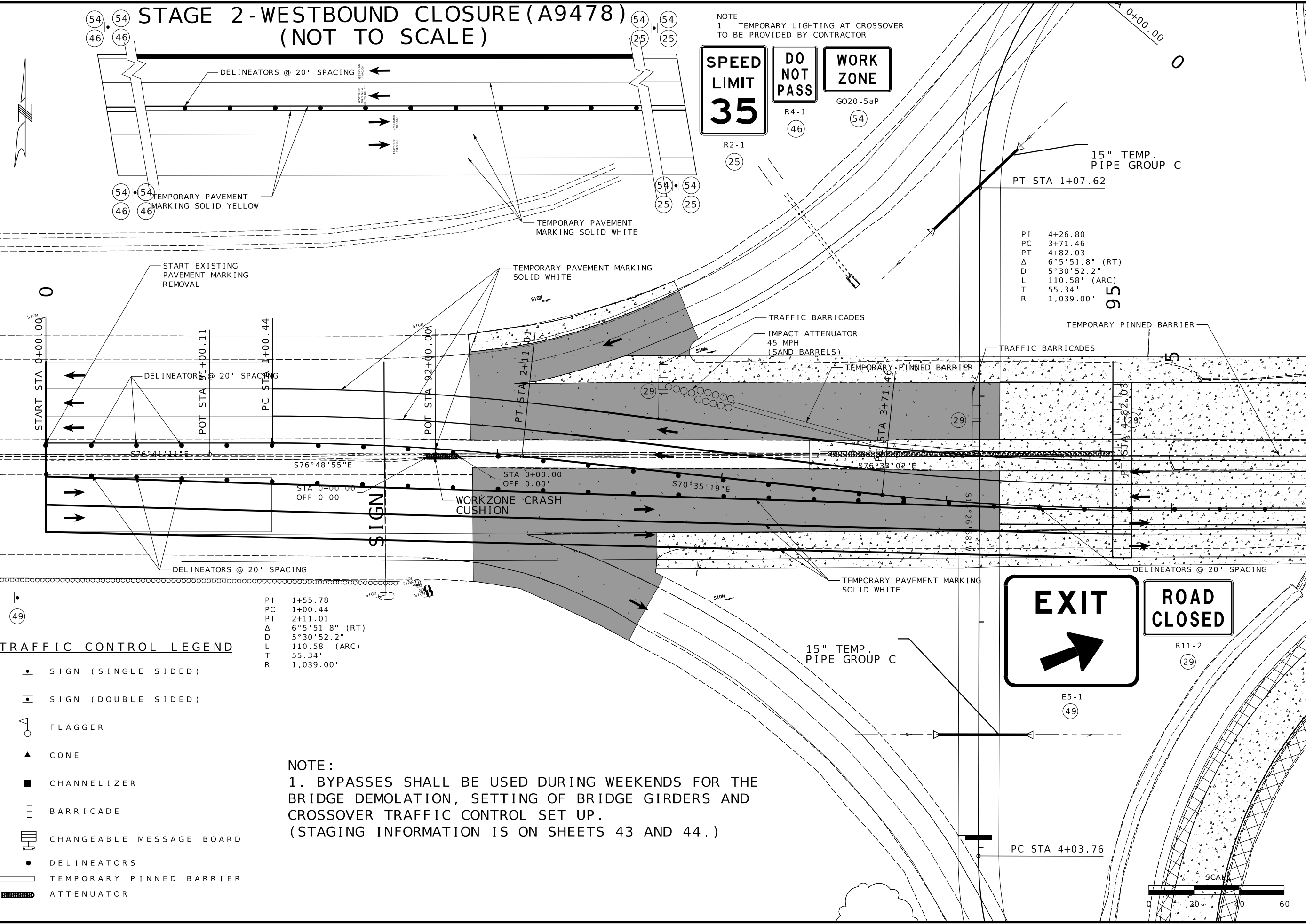
PROJECT NO.

BRIDGE NO.

15" TEMP. PIPE GROUP C
PT STA 1+07.62

PI 4+26.80
PC 3+71.46
PT 4+82.03
Δ 6°5'51.8" (RT)
D 5°30'52.2"
L 110.58' (ARC)
T 55.34'
R 1,039.00'

TEMPORARY PINNED BARRIER



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- DELINEATORS
- TEMPORARY PINNED BARRIER
- ATTENUATOR

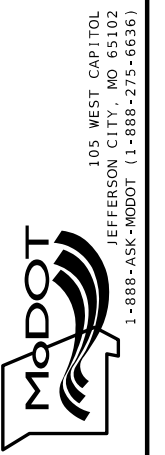
NOTE:
1. BYPASSES SHALL BE USED DURING WEEKENDS FOR THE
BRIDGE DEMOLITION, SETTING OF BRIDGE GIRDERS AND
CROSSOVER TRAFFIC CONTROL SET UP.
(STAGING INFORMATION IS ON SHEETS 43 AND 44.)

EXIT
E5-1 (49)

ROAD CLOSED
R11-2 (29)



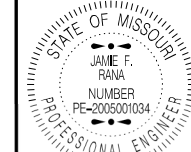
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



TRAFFIC CONTROL SHEET
WB BRIDGE MEDIAN CROSSOVER
SHEET 1

NOTE:
1. TEMPORARY LIGHTING AT CROSSOVER TO BE PROVIDED BY CONTRACTOR

NOTE:
1. BYPASSES SHALL BE USED DURING WEEKENDS FOR THE BRIDGE DEMOLITION, SETTING OF BRIDGE GIRDERS AND CROSSOVER TRAFFIC CONTROL SET UP.
(STAGING INFORMATION IS ON SHEETS 43 AND 44.)



Jamie F. Rana
10/21/2005 10:13:46 AM
JAMIE F. RANA - CIVIL
MO-PE-200501034

DATE PREPARED
2/12/2025

ROUTE STATE
D MO
DISTRICT SHEET NO.
SL 50

COUNTY
ST. LOUIS

JOB NO.
J6S3626
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)



ROAD CLOSED

R11-2
(29)

EXIT
↑

E5-1
(49)

PI 3+47.77
PC 2+74.02
PT 4+11.58
 Δ 51°10'49.0" (RT)
D 37°12'18.2"
L 137.56' (ARC)
T 73.75'
R 154.00'

PI 17+90.57
PC 17+33.04
PT 18+47.98
 Δ 6°20'19.2" (RT)
D 5°30'52.2"
L 114.94' (ARC)
T 57.53'
R 1,039.00'

105

110

TRAFFIC BARRICADES
TRAFFIC BARRICADES

TEMPORARY PAVEMENT MARKING SOLID WHITE
IMPACT ATTENUATOR 45 MPH (SAND BARRELS)

TEMPORARY PAVEMENT MARKING SOLID WHITE

START EXISTING PAVEMENT MARKING REMOVAL

DELINEATORS @ 20' SPACING

PC STA 17+33.04
PT STA 18+47.98

END STA 19+47.59
PC STA 19+47.59

S82°48'27"E

S76°28'07"E

S76°32'57"E

PI 15+24.49
PC 14+68.94
PT 15+79.94
 Δ 6°7'15.4" (RT)
D 5°30'52.2"
L 111.00' (ARC)
T 55.55'
R 1,039.00'

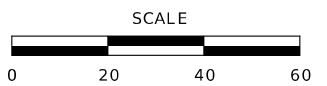
TEMPORARY PAVEMENT MARKING SOLID WHITE

DELINEATORS @ 20' SPACING

15" TEMP. PIPE GROUP C

TRAFFIC CONTROL LEGEND

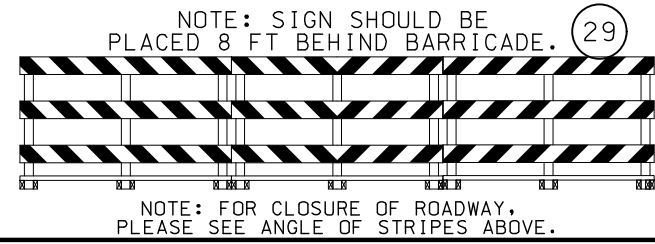
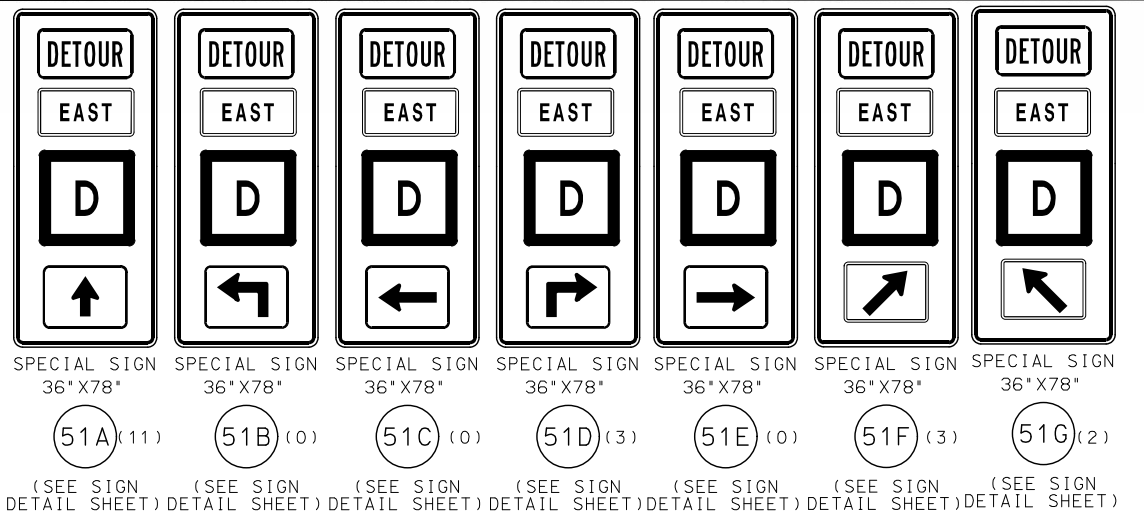
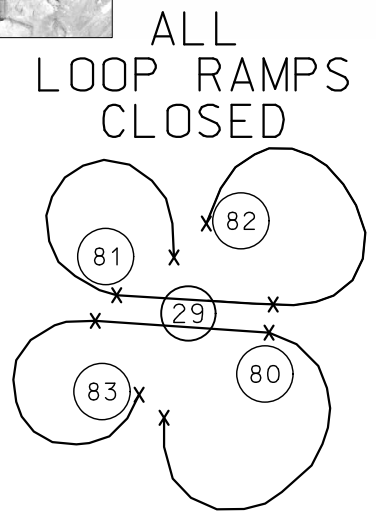
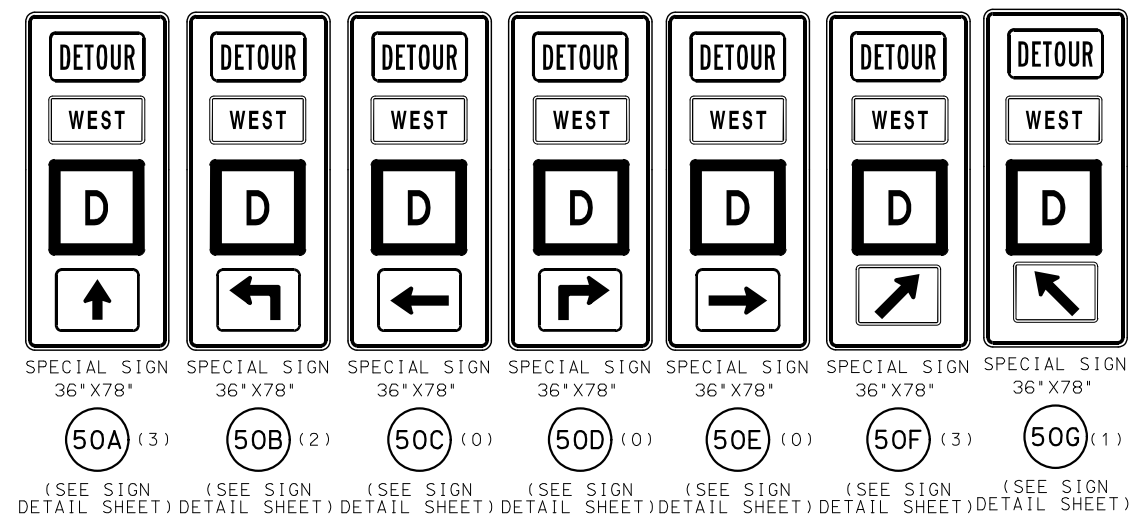
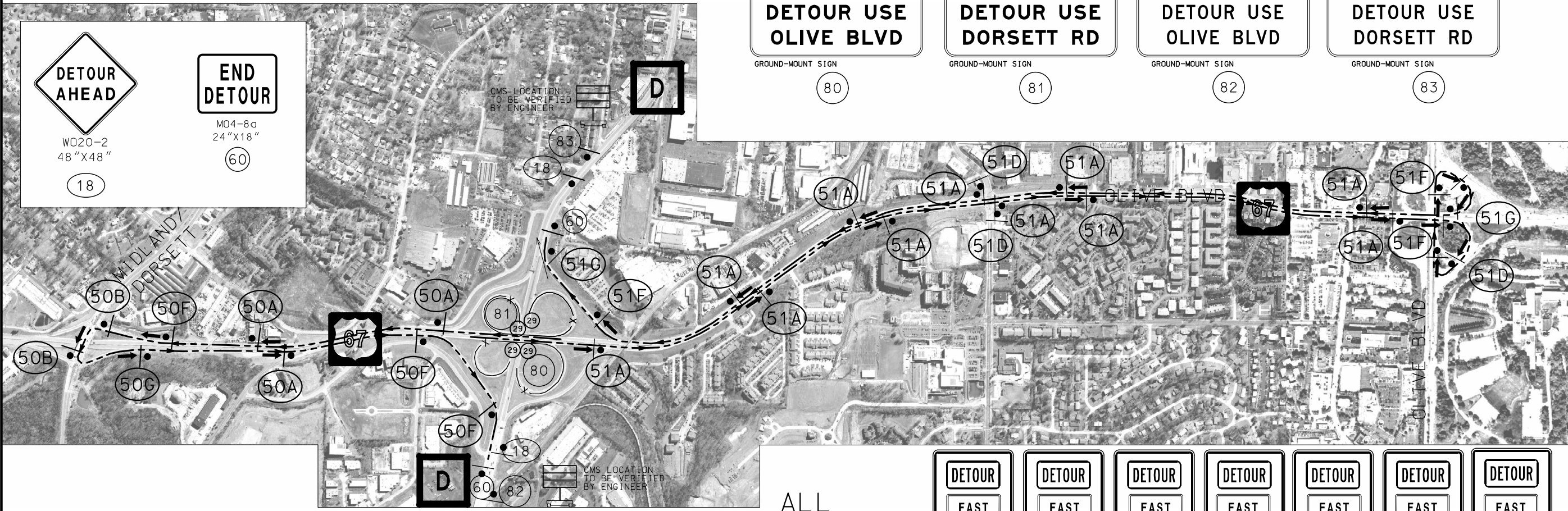
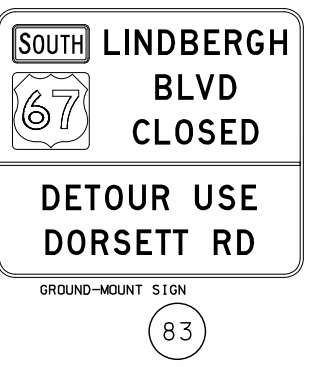
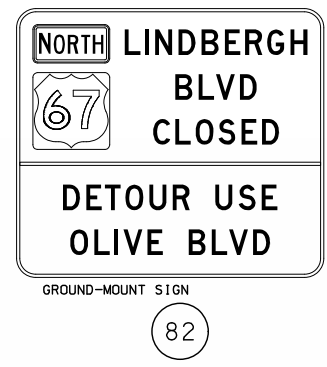
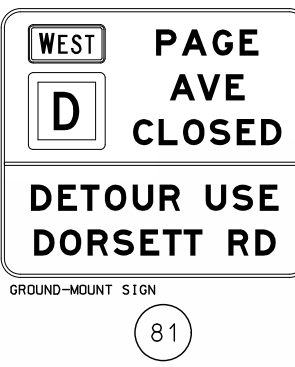
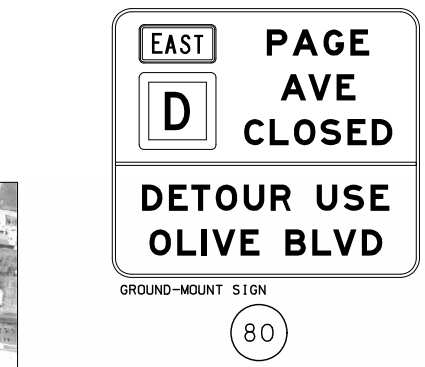
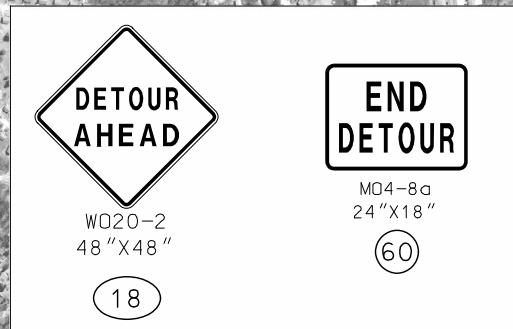
- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ CONE
- CHANNELIZER
- ⎓ BARRICADE
- ▭ CHANGEABLE MESSAGE BOARD
- DELINEATORS
- ▬ TEMPORARY PINNED BARRIER
- ▨ ATTENUATOR



2+67.07
1+60.57
3+45.79
70°45'0.0" (RT)

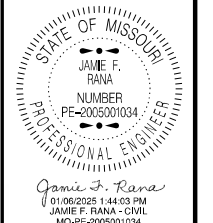
TRAFFIC CONTROL SHEET
WB BRIDGE MEDIAN CROSSOVER
SHEET 2

DETOURS WHEN
SB67 TO EB PAGE (CLOSED)
NB67 TO WB PAGE (CLOSED)
NOT TO SCALE



- GENERAL NOTES:
1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.
 2. ALL SIGNS SHALL BE GROUND-MOUNTED.
 3. ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
 4. ALL CMS BOARDS TO HAVE 5 CHANN. @ 20' SPACING INFRONT OF BOARD; CMS BOARD LOCATIONS TO BE DETERMINED BY ENGINEER

- TRAFFIC CONTROL LEGEND
- SIGN (SINGLE SIDED)
 -] TYPE III MOVABLE BARRICADE
 - ☐ CHANGEABLE MESSAGE SIGN
 - x— CLOSURE AREA —x—



DATE PREPARED
12/20/2024
ROUTE D STATE MO
DISTRICT SL SHEET NO. 51
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

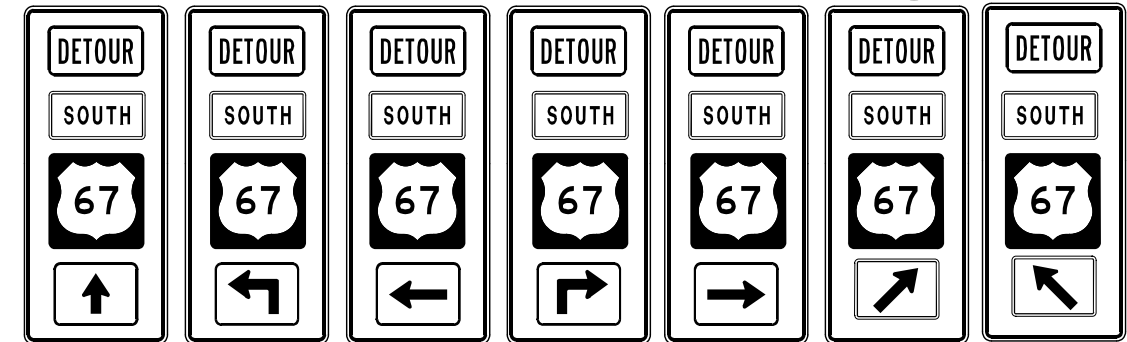
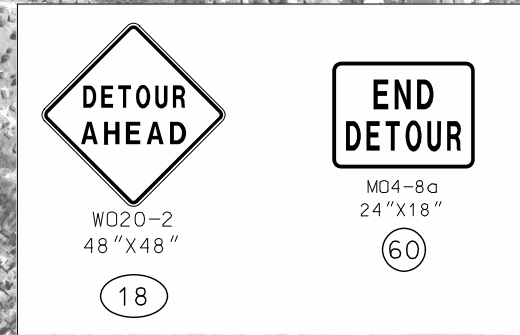
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

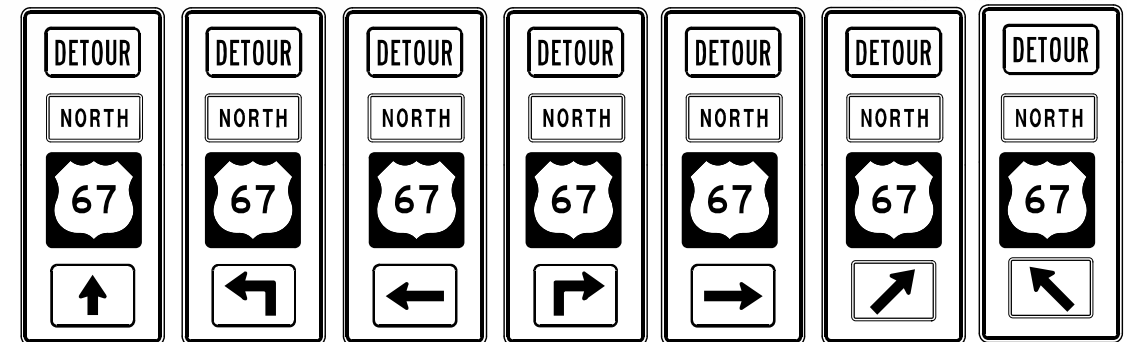
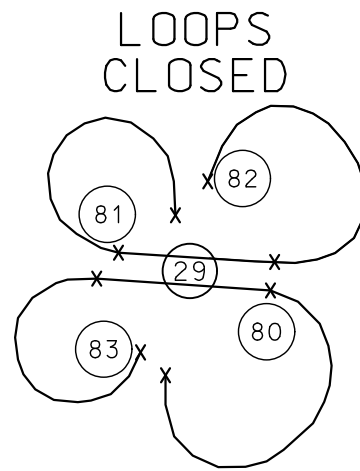
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL DETOURS

DETOURS WHEN
WB PAGE TO SB67 (CLOSED)
EB PAGE TO NB67 (CLOSED)
NOT TO SCALE



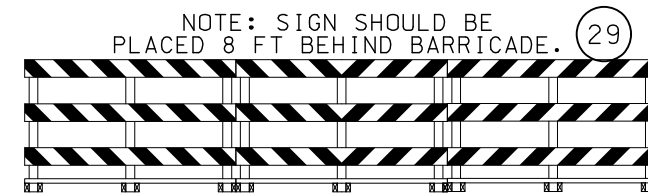
SPECIAL SIGN 36"X78" (52A) (3) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (52B) (2) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (52C) (0) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (52D) (0) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (52E) (0) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (52F) (2) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (52G) (2) (SEE SIGN DETAIL SHEET)



SPECIAL SIGN 36"X78" (53A) (12) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (53B) (0) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (53C) (0) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (53D) (3) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (53E) (0) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (53F) (3) (SEE SIGN DETAIL SHEET)
SPECIAL SIGN 36"X78" (53G) (2) (SEE SIGN DETAIL SHEET)



R11-2
48"X30"



NOTE: SIGN SHOULD BE PLACED 8 FT BEHIND BARRICADE. (29)

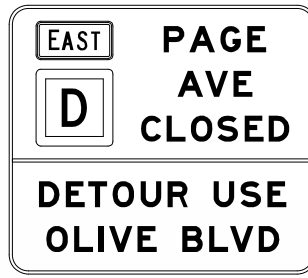
NOTE: FOR CLOSURE OF ROADWAY, PLEASE SEE ANGLE OF STRIPES ABOVE.

TRAFFIC CONTROL LEGEND

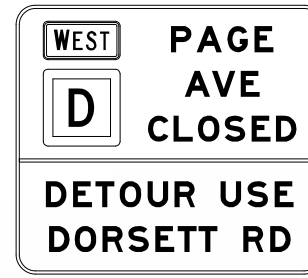
- SIGN (SINGLE SIDED)
-] TYPE III MOVABLE BARRICADE
- ☐ CHANGEABLE MESSAGE SIGN
- x— CLOSURE AREA

GENERAL NOTES:

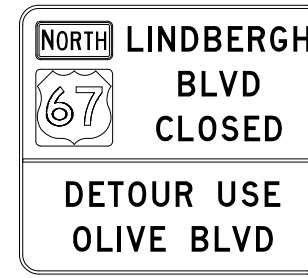
1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.
2. ALL SIGNS SHALL BE GROUND-MOUNTED.
3. ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
4. ALL CMS BOARDS TO HAVE 5 CHANN. @ 20' SPACING INFRONT OF BOARD; CMS BOARD LOCATIONS TO BE DETERMINED BY ENGINEER



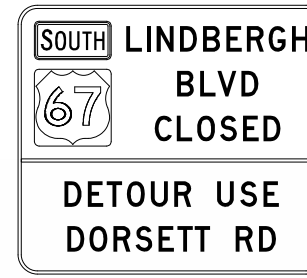
GROUND-MOUNT SIGN
80



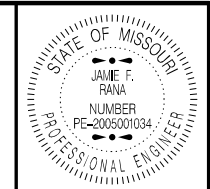
GROUND-MOUNT SIGN
81



GROUND-MOUNT SIGN
82



GROUND-MOUNT SIGN
83



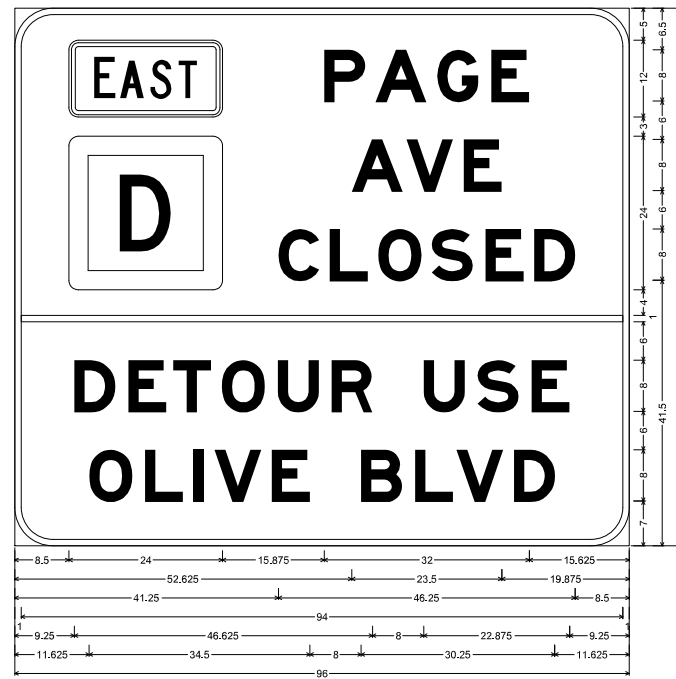
DATE PREPARED
1/9/2025
ROUTE D STATE MO
DISTRICT SL SHEET NO. 52
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

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)

TRAFFIC CONTROL
DETOURS

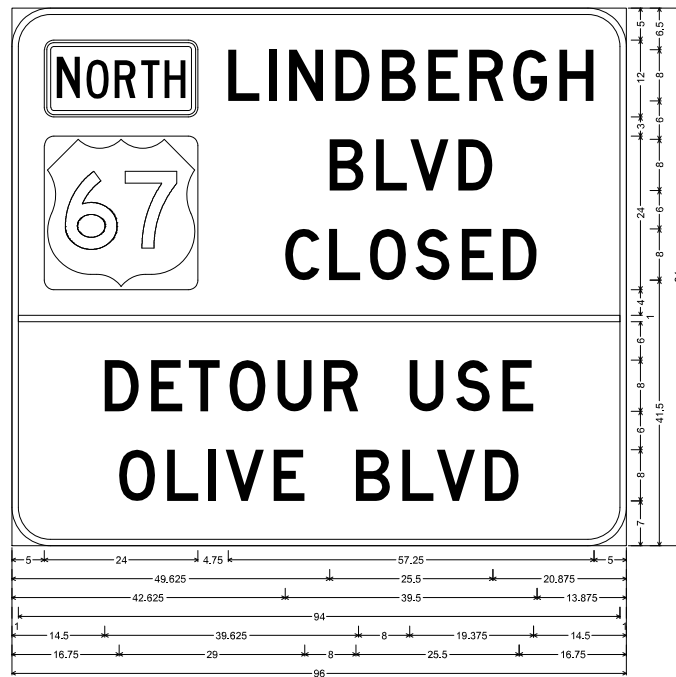


SIGN NO.	80
STATION	
ROADWAY	ROUTE D

SPECIAL SHF-FLAT SHEET FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
"PAGE", E Mod; "AVE", E Mod; "CLOSED", E Mod; "DETOUR USE", E Mod; "OLIVE BLVD", E Mod;

Table of letter and object lefts

P	A	G	E					
8,500	48,375	56,375	66,000					
8,500	52,625	61,250	70,125					
C	L	O	S	E	D			
41,250	49,250	56,875	65,125	73,625	81,125			
T, 1,000								
D	E	T	O	U	R	U	S	E
9,250	17,750	24,750	32,375	41,125	49,500	63,875	72,375	80,750
O	L	I	V	E	B	L	V	D
11,625	20,375	28,000	31,250	40,125	54,125	62,500	69,000	78,000

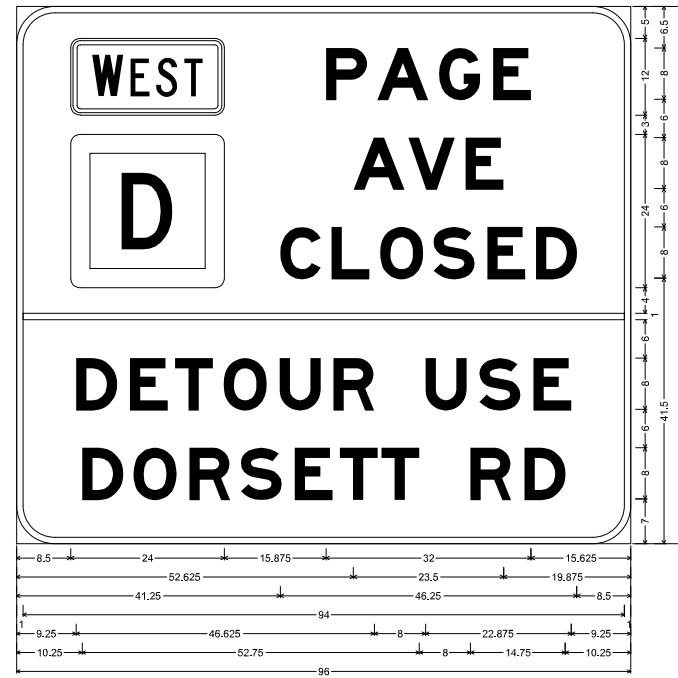


SIGN NO.	82
STATION	
ROADWAY	ROUTE D

SPECIAL SHF-FLAT SHEET FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
"LINDBERGH", D; "BLVD", D; "CLOSED", D; "DETOUR USE", D; "OLIVE BLVD", D;

Table of letter and object lefts

L	N	D	B	E	R	G	H	
5,000	33,750	40,125	43,250	50,500	57,875	65,125	71,500	
5,000	49,625	56,875	62,250	69,750				
C	L	O	S	E	D			
42,625	49,500	55,875	63,000	70,375	76,750			
T, 1,000								
D	E	T	O	U	R	U	S	E
14,500	21,750	27,625	34,000	41,500	48,750	62,125	69,375	76,625
O	L	I	V	E	B	L	V	D
16,750	24,250	30,625	33,375	40,875	53,750	61,000	66,375	73,875

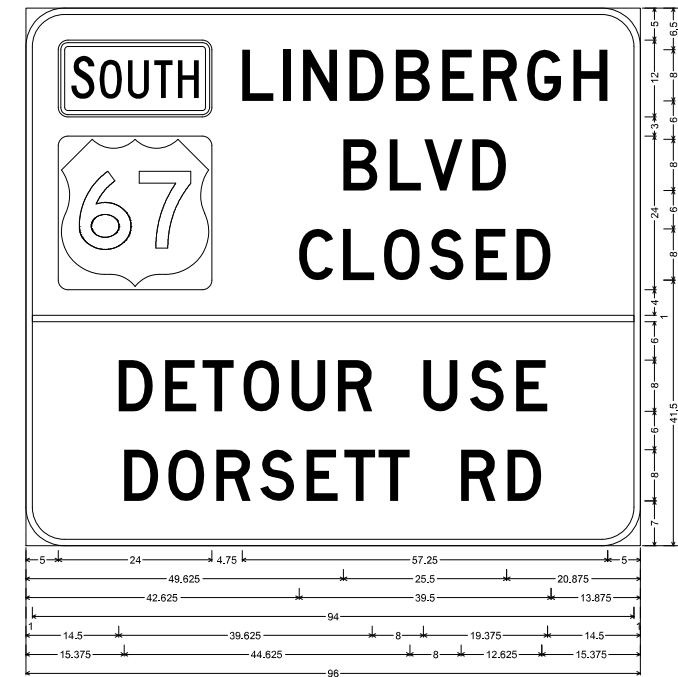


SIGN NO.	81
STATION	
ROADWAY	ROUTE D

SPECIAL SHF-FLAT SHEET FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
"PAGE", E Mod; "AVE", E Mod; "CLOSED", E Mod; "DETOUR USE", E Mod; "DORSETT RD", E Mod;

Table of letter and object lefts

P	A	G	E					
8,500	48,375	56,375	66,000					
8,500	52,625	61,250	70,125					
C	L	O	S	E	D			
41,250	49,250	56,875	65,125	73,625	81,125			
T, 1,000								
D	E	T	O	U	R	U	S	E
9,250	17,750	24,750	32,375	41,125	49,500	63,875	72,375	80,750
D	O	R	S	E	T	R	D	
10,250	18,250	27,000	35,000	43,500	50,500	57,000	71,000	79,375



SIGN NO.	83
STATION	
ROADWAY	ROUTE D

SPECIAL SHF-FLAT SHEET FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
"LINDBERGH", D; "BLVD", D; "CLOSED", D; "DETOUR USE", D; "DORSETT RD", D;

Table of letter and object lefts

L	N	D	B	E	R	G	H	
5,000	33,750	40,125	43,250	50,500	57,875	65,125	71,500	
5,000	49,625	56,875	62,250	69,750				
C	L	O	S	E	D			
42,625	49,500	55,875	63,000	70,375	76,750			
T, 1,000								
D	E	T	O	U	R	U	S	E
14,500	21,750	27,625	34,000	41,500	48,750	62,125	69,375	76,625
D	O	R	S	E	T	R	D	
15,375	22,250	29,750	36,625	43,875	49,750	55,125	68,000	75,250



Jamie F. Rana
01/06/2025 1:46:29 PM
JAMIE F. RANA - CIVIL
MO-PE-2006001034

DATE PREPARED
12/20/2024

ROUTE D STATE MO
DISTRICT SL SHEET NO. 53

COUNTY ST. LOUIS

JOB NO. J6S3626
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

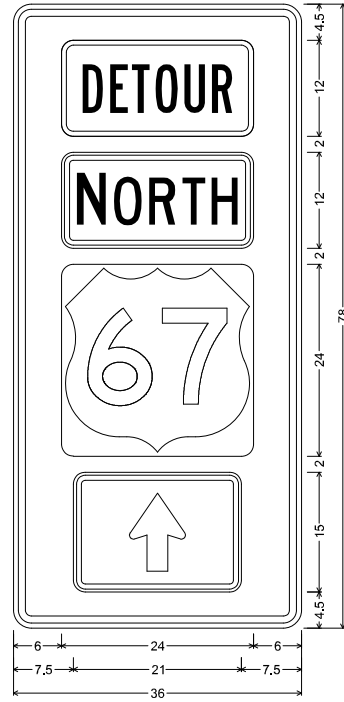
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

TRAFFIC CONTROL PLANS
DETOUR SIGNING DETAILS

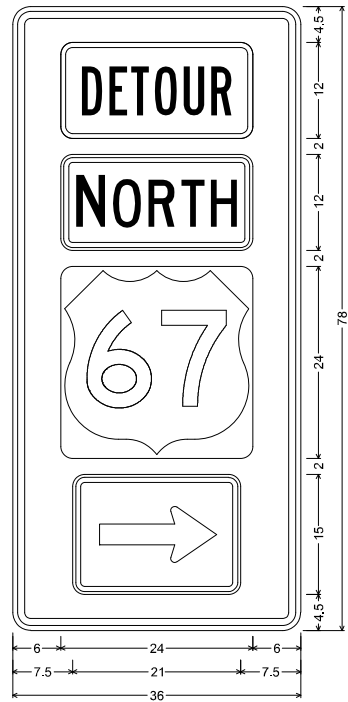
SIGN NO.	53A
STATION	
ROADWAY	NORTH 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

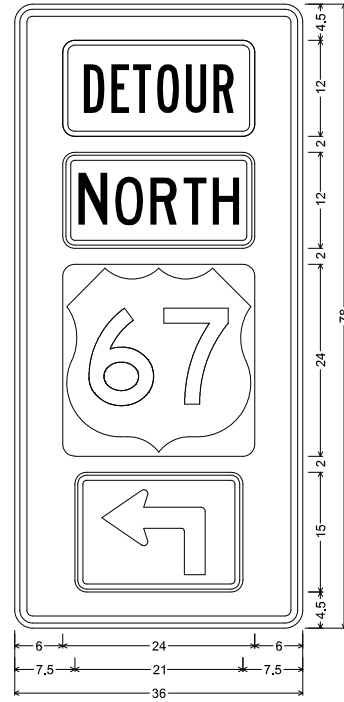
SIGN NO.	53E
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

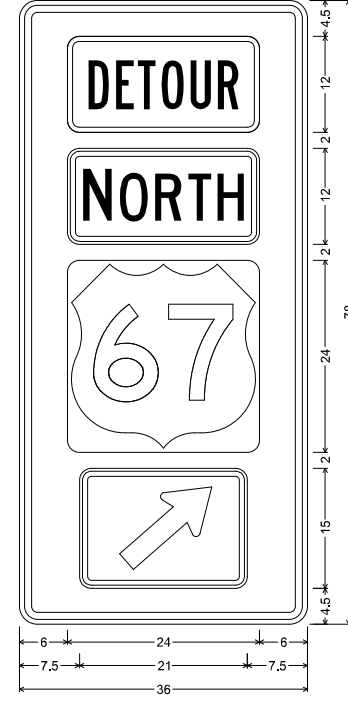
SIGN NO.	53B
STATION	
ROADWAY	NORTH 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

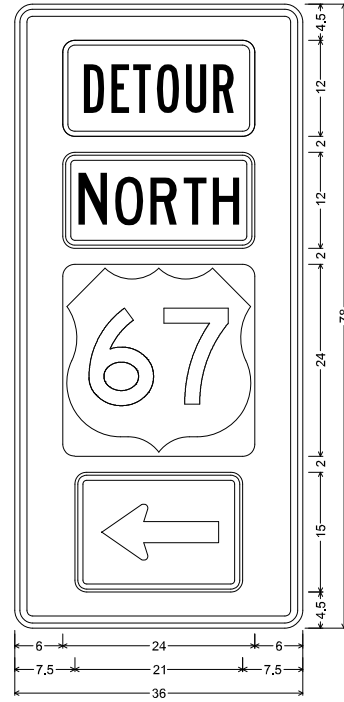
SIGN NO.	53F
STATION	
ROADWAY	N. 67/S. 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

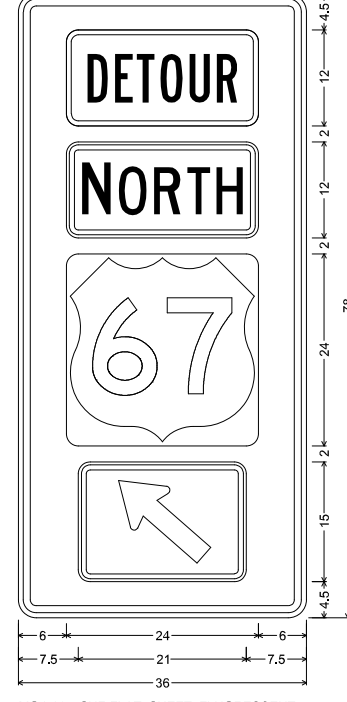
SIGN NO.	53C
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

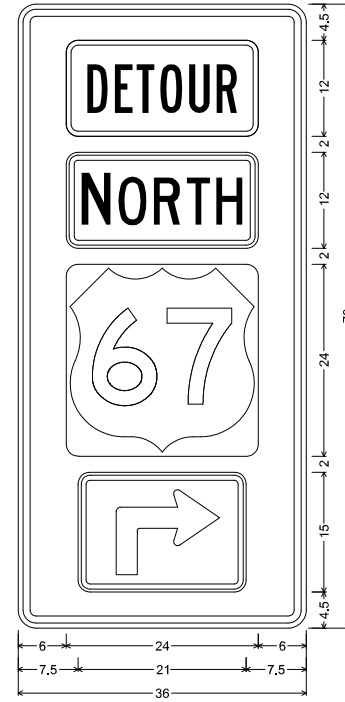
SIGN NO.	53G
STATION	
ROADWAY	SOUTH 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

SIGN NO.	53D
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500



DATE PREPARED
12/20/2024

ROUTE D STATE MO
DISTRICT SL SHEET NO. 54
COUNTY
ST. LOUIS
JOB NO.
J6S3626
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

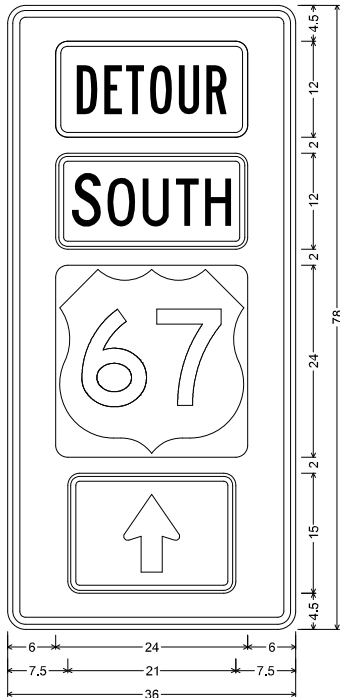
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
DETOUR SIGNING DETAILS

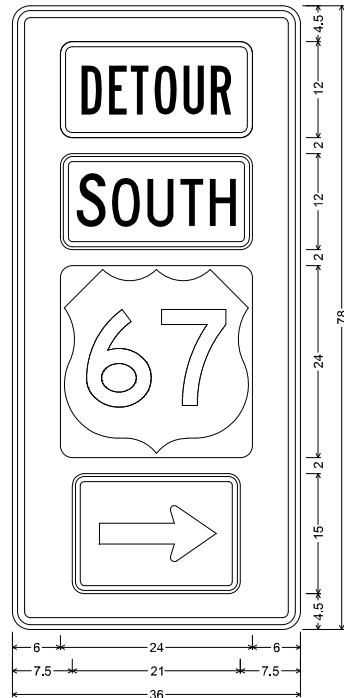
SIGN NO.	52A
STATION	
ROADWAY	S. 67/N. 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500

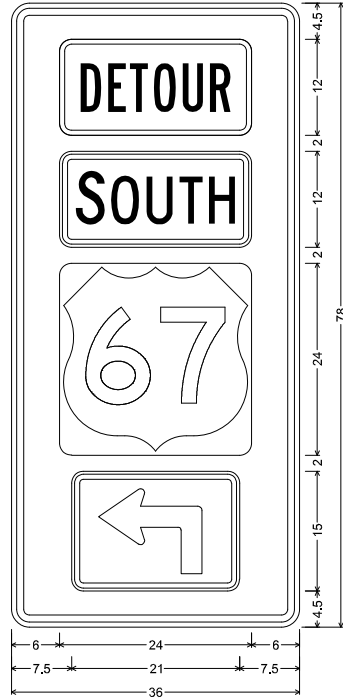
SIGN NO.	52E
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500

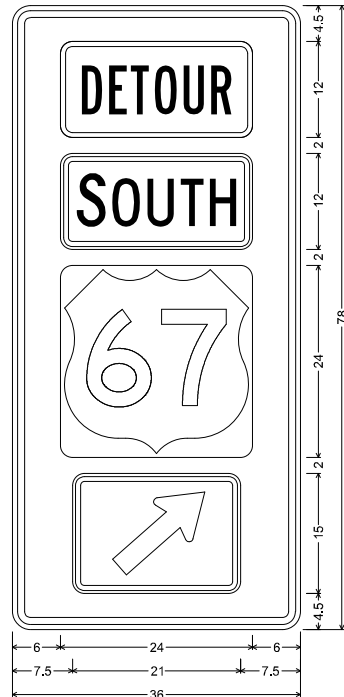
SIGN NO.	52B
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500

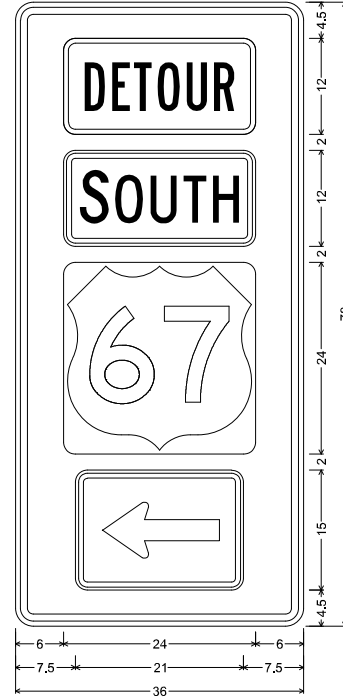
SIGN NO.	52A
STATION	
ROADWAY	RAMP OLIVE BLVD W. / E. RAMP E RT. D



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500

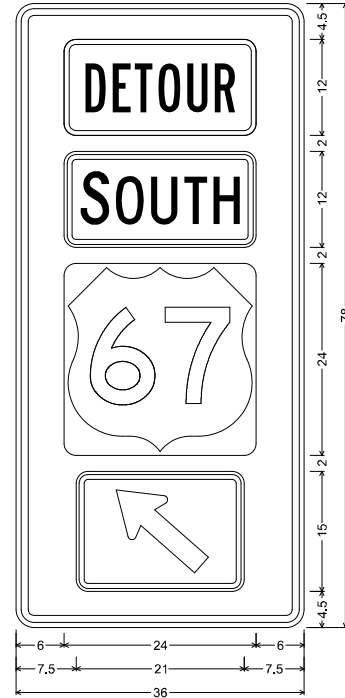
SIGN NO.	52C
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500

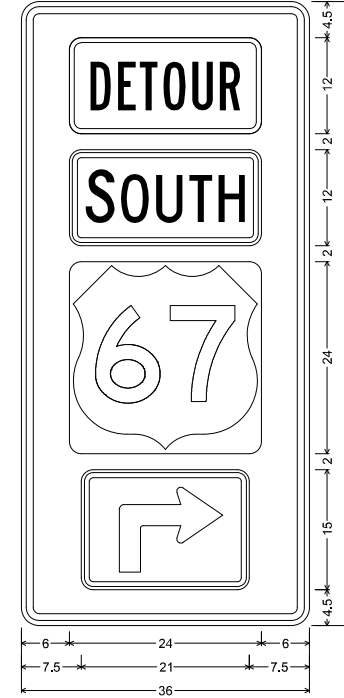
SIGN NO.	52G
STATION	
ROADWAY	RAMP S. 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

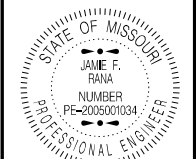
6,000
6,000
6,000
6,000
7,500

SIGN NO.	52D
STATION	
ROADWAY	S. 67/SIDE RD.



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500



DATE PREPARED	12/20/2024		
ROUTE	D	STATE	MO
DISTRICT	SL	SHEET NO.	55
COUNTY	ST. LOUIS		
JOB NO.	J6S3626		
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

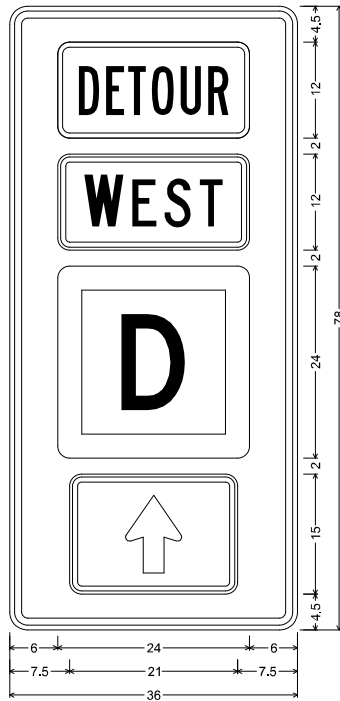
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
DETOUR SIGNING DETAILS

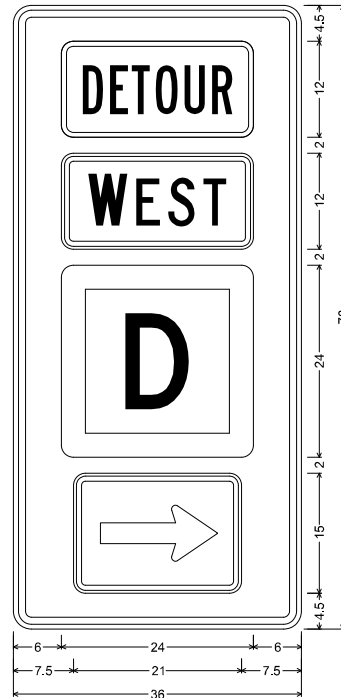
SIGN NO.	50A
STATION	
ROADWAY	S. 67/N. 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lifts

□	6,000
□	6,000
□	6,000
□	7,500

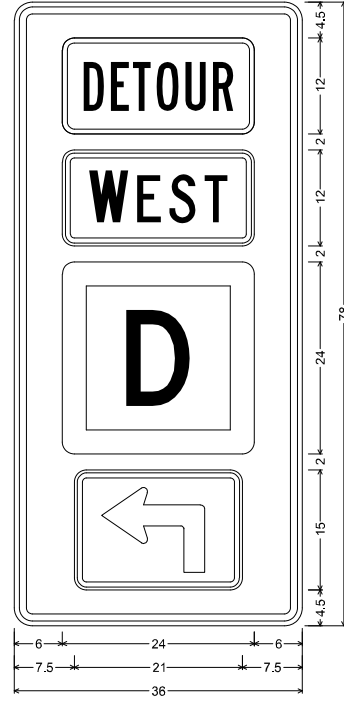
SIGN NO.	50E
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lifts

□	6,000
□	6,000
□	6,000
□	7,500

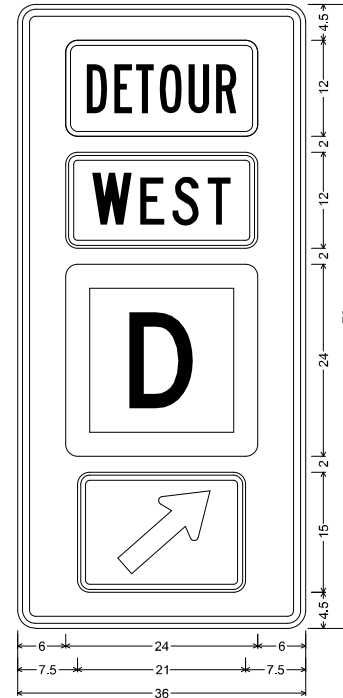
SIGN NO.	50B
STATION	
ROADWAY	MIDLAND/ DORSETT



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lifts

□	6,000
□	6,000
□	6,000
□	7,500

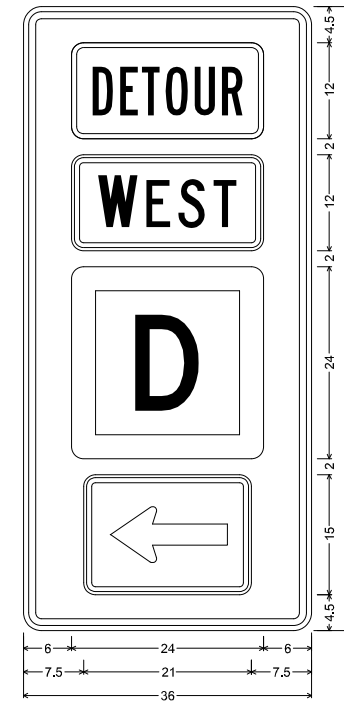
SIGN NO.	50F
STATION	
ROADWAY	N. 67/S. 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lifts

□	6,000
□	6,000
□	6,000
□	7,500

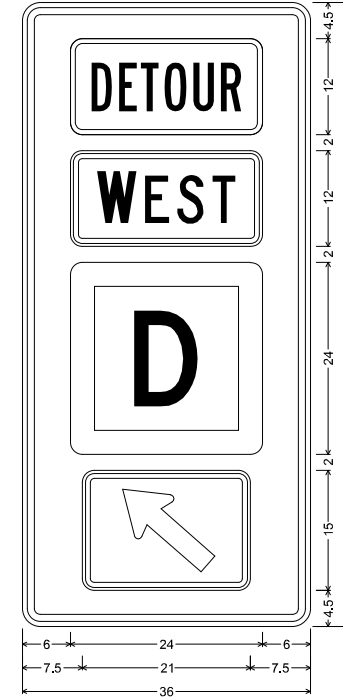
SIGN NO.	50C
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lifts

□	6,000
□	6,000
□	6,000
□	7,500

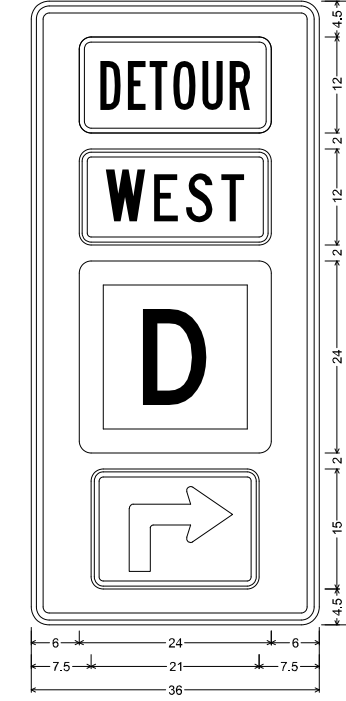
SIGN NO.	50G
STATION	
ROADWAY	SOUTH 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lifts

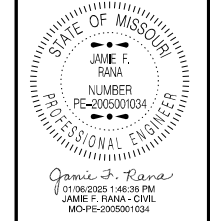
□	6,000
□	6,000
□	6,000
□	7,500

SIGN NO.	50D
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lifts

□	6,000
□	6,000
□	6,000
□	7,500



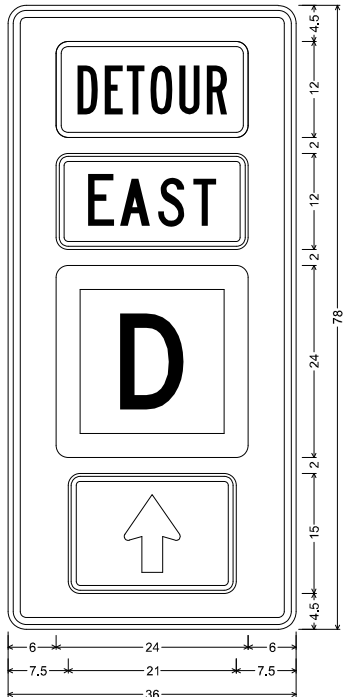
DATE PREPARED
12/20/2024
ROUTE STATE
D MO
DISTRICT SHEET NO.
SL 56
COUNTY
ST. LOUIS
JOB NO.
J6S3626
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

TRAFFIC CONTROL PLANS
DETOUR SIGNING DETAILS

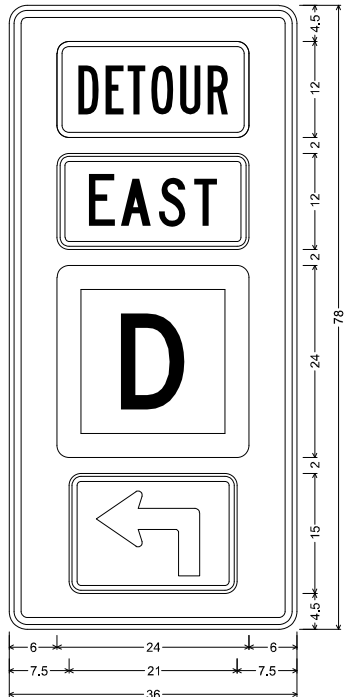
SIGN NO.	51A
STATION	
ROADWAY	S. 67/N. 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
 2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Table of letter and object lefts

6.000
6.000
6.000
7.500

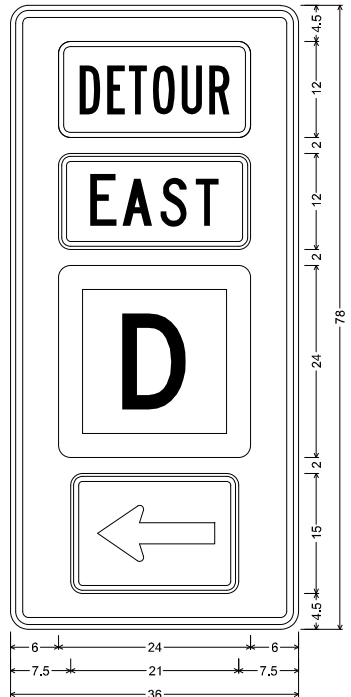
SIGN NO.	51B
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
 2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Table of letter and object lefts

6.000
6.000
6.000
7.500

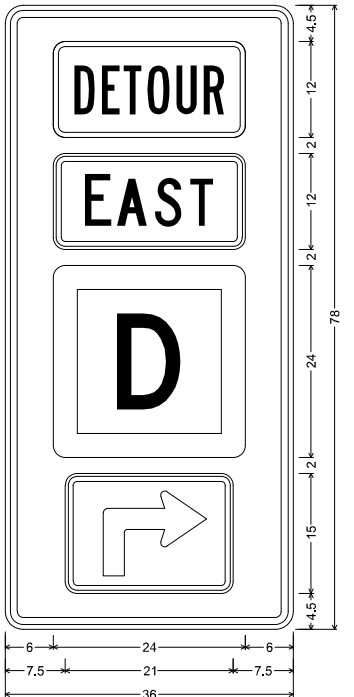
SIGN NO.	51C
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
 2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Table of letter and object lefts

6.000
6.000
6.000
7.500

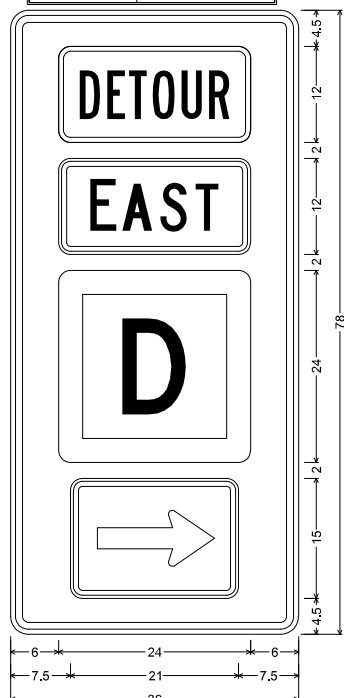
SIGN NO.	51D
STATION	
ROADWAY	S. 67/SIDE RD.



MO4-11 SHF-FLAT SHEET FLUORESCENT;
 2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Table of letter and object lefts

6.000
6.000
6.000
7.500

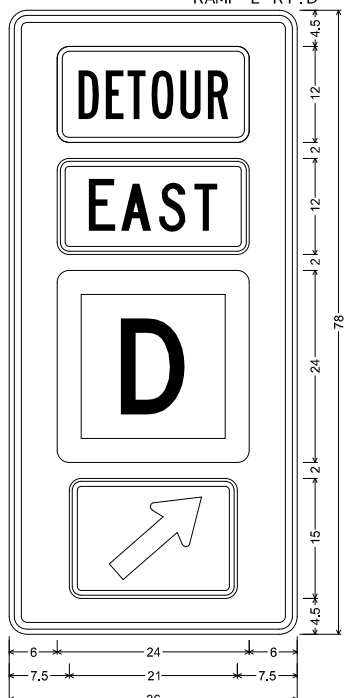
SIGN NO.	51E
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
 2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Table of letter and object lefts

6.000
6.000
6.000
7.500

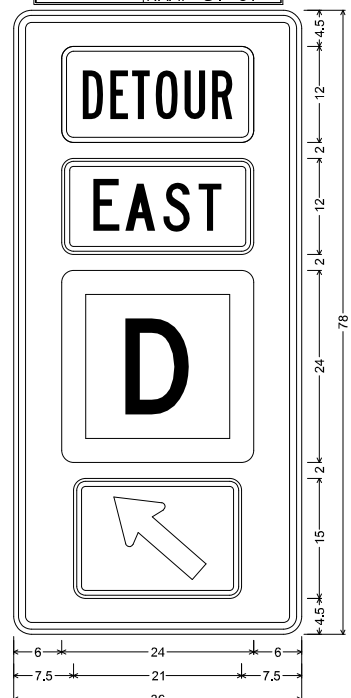
SIGN NO.	51F
STATION	
ROADWAY	RAMP OLIVE BLVD W. / E. RAMP E RT. D



MO4-11 SHF-FLAT SHEET FLUORESCENT;
 2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Table of letter and object lefts

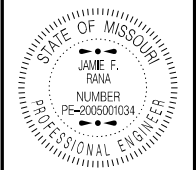
6.000
6.000
6.000
7.500

SIGN NO.	51G
STATION	
ROADWAY	RAMP S. 67



MO4-11 SHF-FLAT SHEET FLUORESCENT;
 2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Table of letter and object lefts

6.000
6.000
6.000
7.500



DATE PREPARED
 12/20/2024

ROUTE	D	STATE	MO
DISTRICT	SL	SHEET NO.	57
COUNTY	ST. LOUIS		
JOB NO.	J6S3626		
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)

TRAFFIC CONTROL PLANS
 DETOUR SIGNING DETAILS

NOT TO SCALE

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBLSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

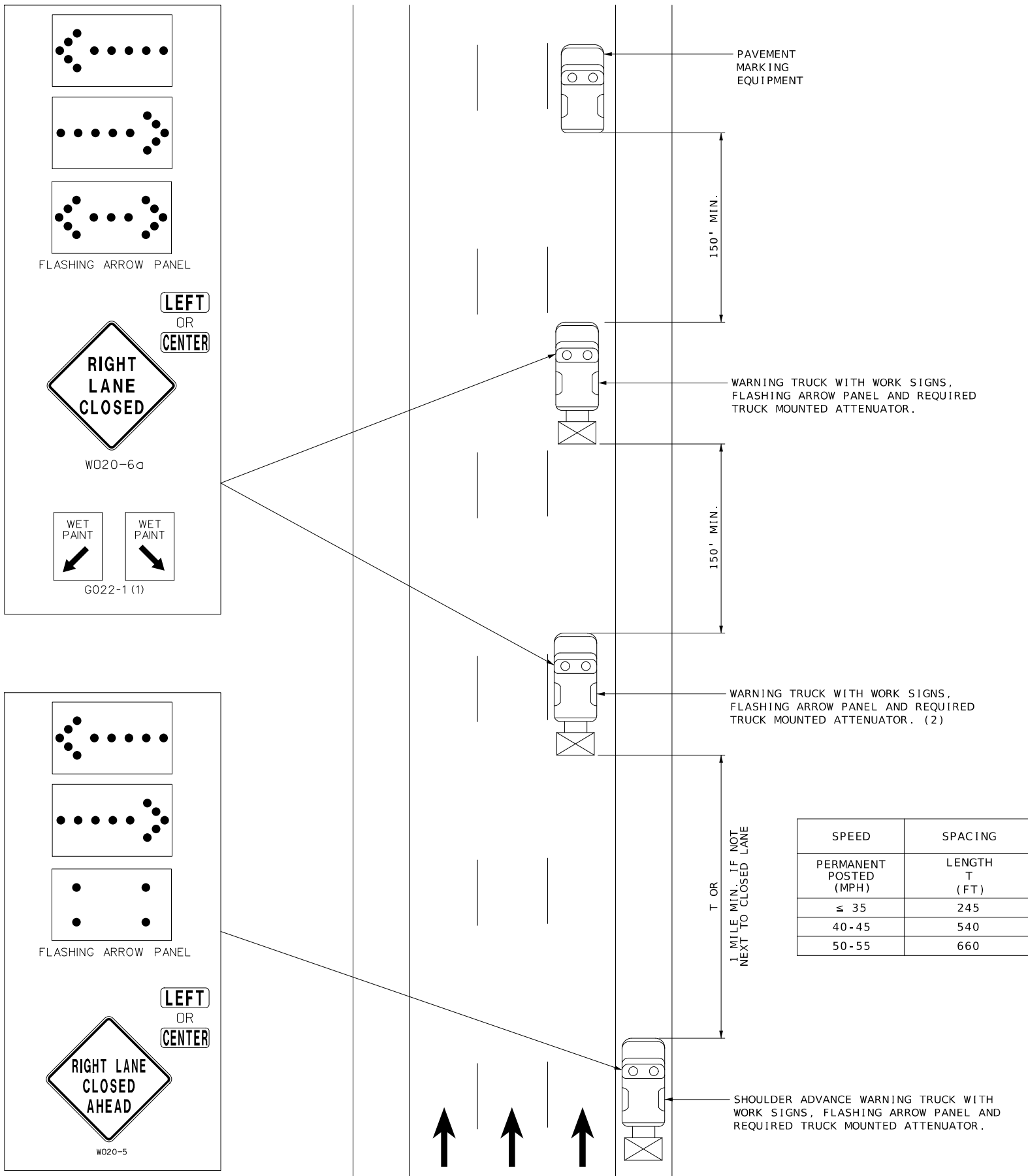
FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

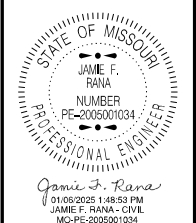
A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(2) WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR SPACING SHOWN, WHICH EVER IS GREATER.



STRIPING ON MULTI-LANE HIGHWAY



DATE PREPARED
12/20/2024

ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 58

COUNTY
ST. LOUIS

JOB NO.
J6S3626


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

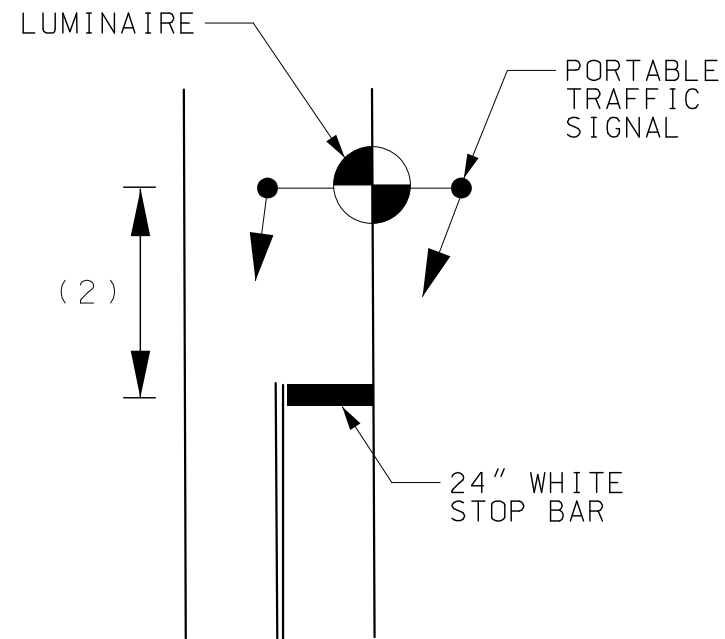
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



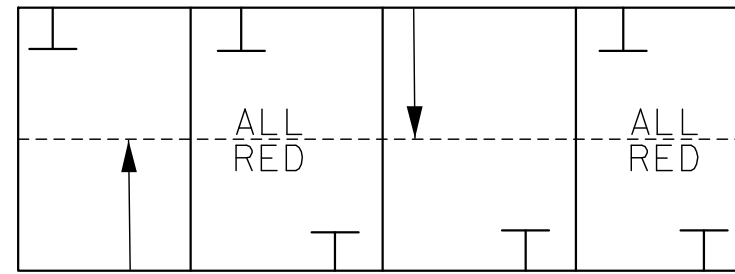
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY TRAFFIC CONTROL STRIPING ON MULTI-LANE HIGHWAY

PORTABLE TRAFFIC SIGNAL AND TEMPORARY TRAFFIC SIGN



PORTABLE TRAFFIC SIGNAL DETAIL (1)



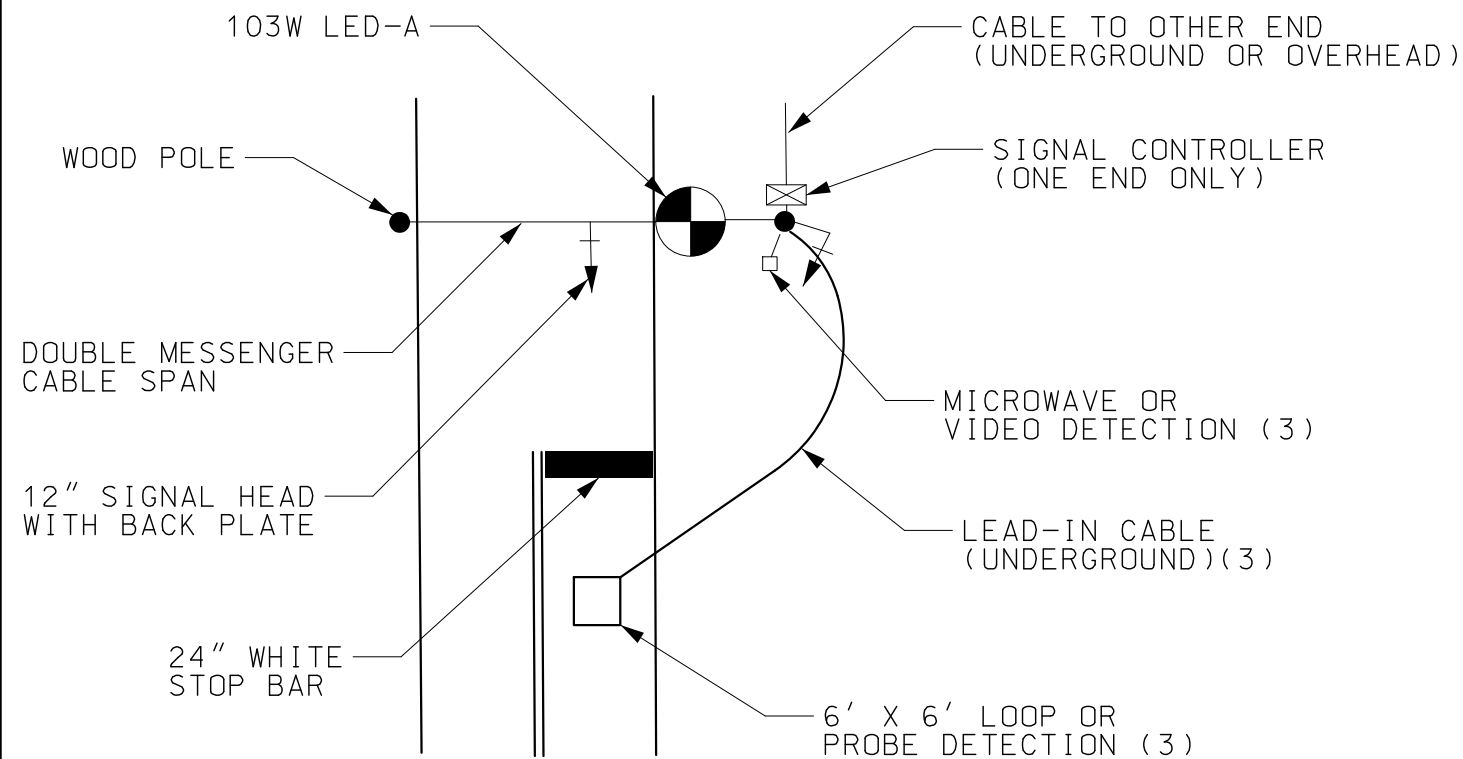
PHASE A PHASE B

PHASE A AND PHASE B SHALL ALWAYS BE FOLLOWED BY AN ALL RED PHASE OR INTERVAL.

SIGNALS SHALL REST IN ALL RED WHEN THERE ARE NO VEHICLE CALLS.

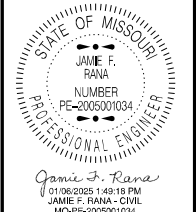
NOTES:

- (1) SIGNING AND PAVEMENT MARKING IDENTICAL ON BOTH APPROACHES.
- (2) 75- FEET RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40- FEET AND 150- FEET.
- (3) NON-INTRUSIVE DETECTION IS PREFERRED. HOWEVER, IF OTHER VEHICLE INTERFERENCE IS PRESENT (ie PARKING LOTS OR SIDE ROAD ACTIVITY), THEN OTHER DETECTION METHODS MAY BE USED.
- (4) IF SIDE ROADS OR DRIVEWAYS OCCUR WITHIN THE LIMITS OF THE STOP BARS, ADDITIONAL INDICATIONS AND PHASING ARE REQUIRED. FURTHERMORE, RIGHT TURNS SHALL BE PROHIBITED FROM THESE ACCESS POINTS DURING THE RED INTERVAL.



TEMPORARY TRAFFIC SIGNAL DETAIL (1)

NOT TO SCALE



DATE PREPARED	
12/20/2024	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	59
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

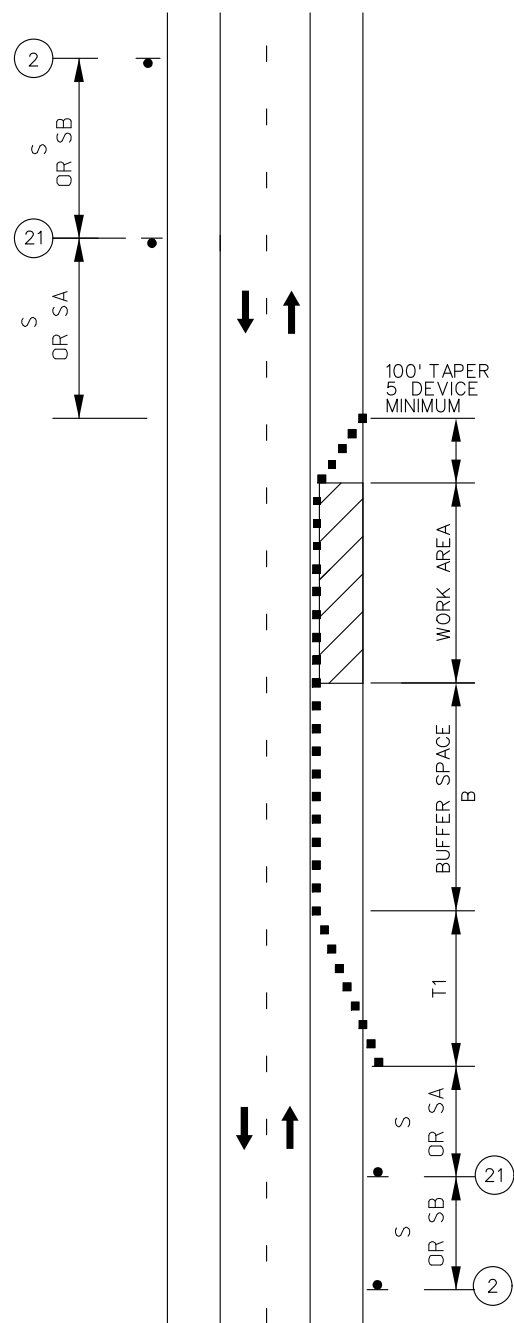
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
 PORTABLE TRAFFIC SIGNAL
 TEMPORARY TRAFFIC SIGN

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
	UN-DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (B)	TAPERS	BUFFER/WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

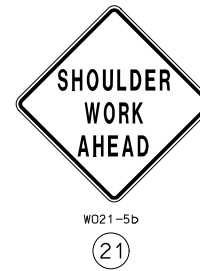


**WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS**

TRAFFIC CONTROL LEGEND

- ▲ SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- ▨ WORK AREA

NOT TO SCALE



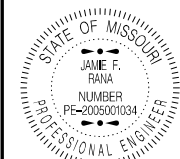
NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS.

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

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.



JAMIE F. RANA
PROFESSIONAL ENGINEER
01/08/2025 1:49:40 PM
JAMIE F. RANA - CIVIL
MCP-E-200501034

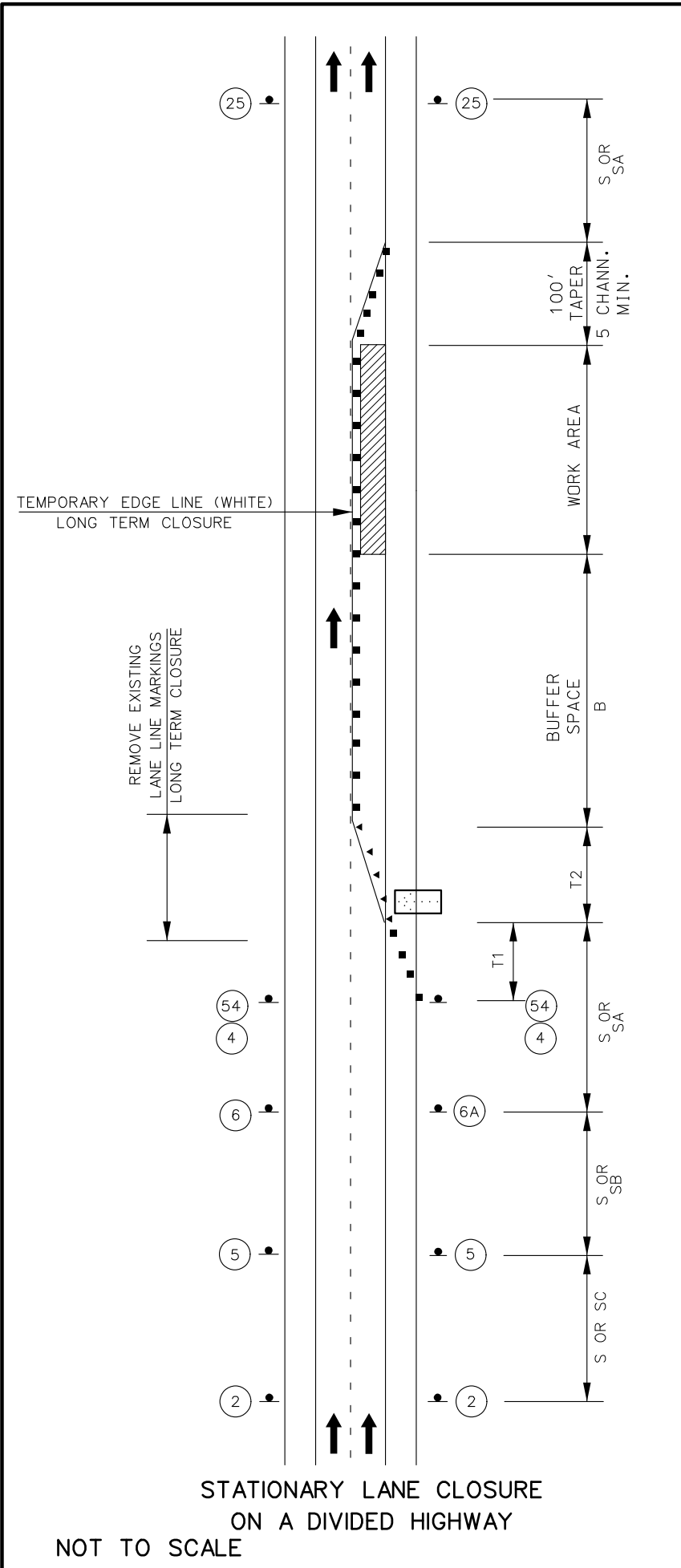
DATE PREPARED 12/20/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 60
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

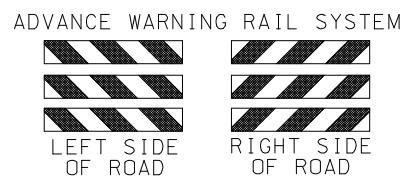
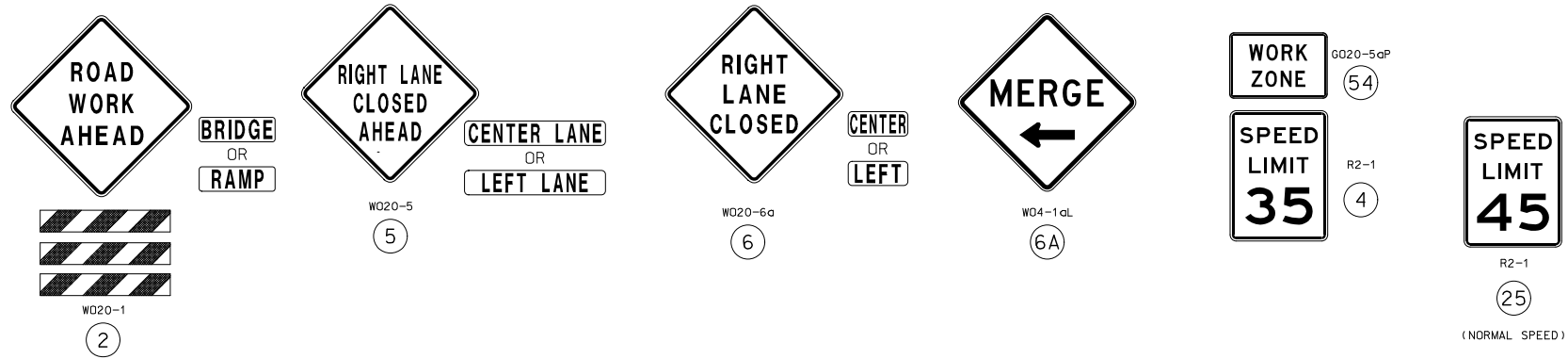
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

**TRAFFIC CONTROL PLANS
SHOULDER WORK**



STATIONARY LANE CLOSURE
ON A DIVIDED HIGHWAY

NOT TO SCALE



NOTE: PLACE 2 SIGNS *57 PRIOR TO ROAD WORK AHEAD SIGNS. USE 500' SPACING.



TRAFFIC CONTROL LEGEND

- ▲ SIGN (SINGLE SIDED)
- ◀ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- ▨ WORK AREA
- ◻ FLASHING ARROW PANEL
- ▩ ADVANCE WARNING RAILS

NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.
REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIER AND REVIEW EPG 616.8.34 LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER

REVIEW EPG 616.8.34A LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS - DE/CM FOR A LANE CLOSURE WITH WIDTH RESTRICTION

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft) (B)	CHANNELIZER SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

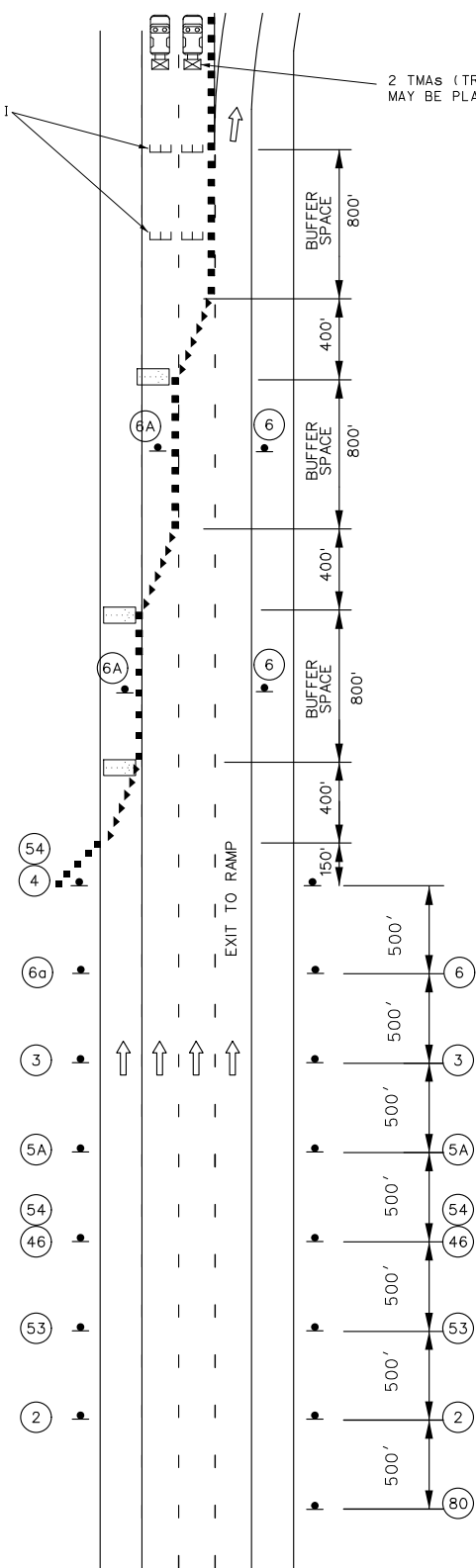
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
JAMIE F. RANA
PROFESSIONAL ENGINEER
NUMBER PE-2005001034
DATE PREPARED 12/20/2024
ROUTE D STATE MO
DISTRICT SL SHEET NO. 61A
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

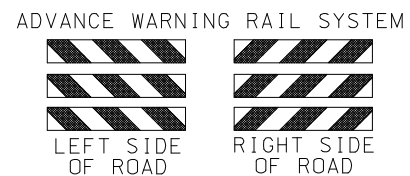
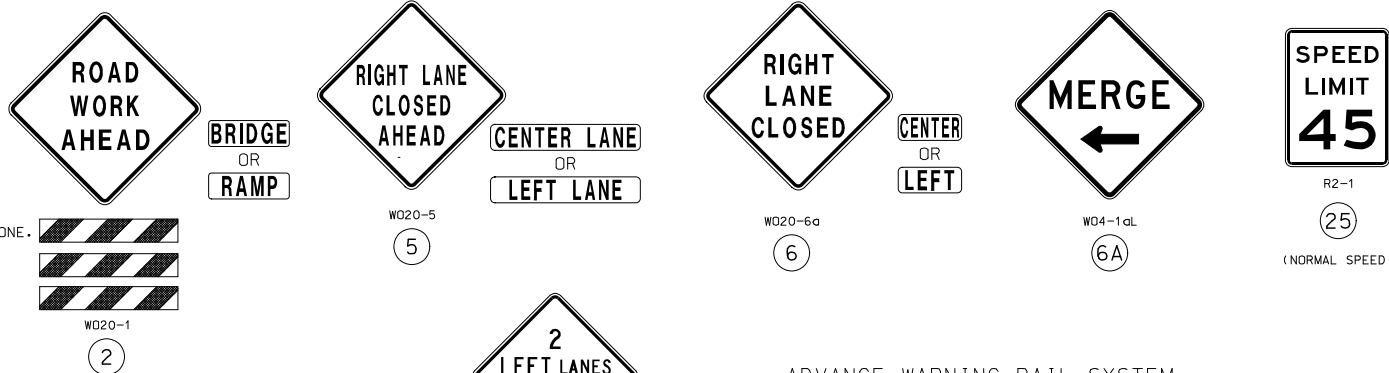
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL SHEET
STATIONARY LANE CLOSURE
ON A DIVIDED HIGHWAY

2 SETS OF 4-TYPE III MOVABLE BARRICADES



NOT TO SCALE



NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.
REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIER AND REVIEW EPG 616.8.34 LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER

REVIEW EPG 616.8.34A LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS - DE/CM FOR A LANE CLOSURE WITH WIDTH RESTRICTION

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

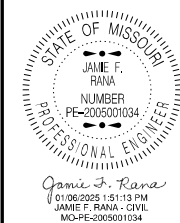
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

TRAFFIC CONTROL LEGEND

- ▲ SIGN (SINGLE SIDED)
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- ▨ WORK AREA
- ⚡ FLASHING ARROW PANEL
- ▨ ADVANCE WARNING RAILS

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft) (B)	CHANNELIZER SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

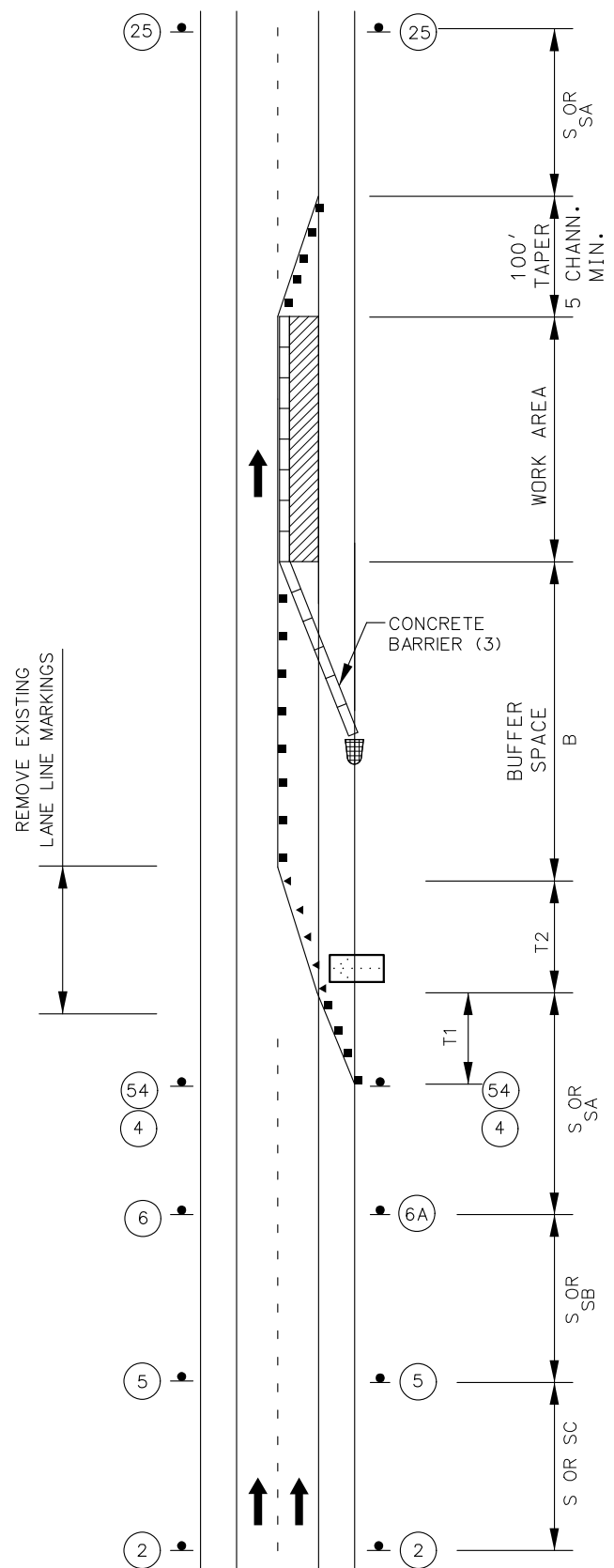


DATE PREPARED: 12/20/2024
ROUTE: D STATE: MO
DISTRICT: SL SHEET NO.: 61B
COUNTY: ST. LOUIS
JOB NO.: J6S3626
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

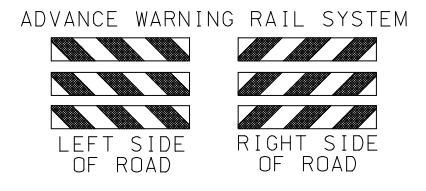
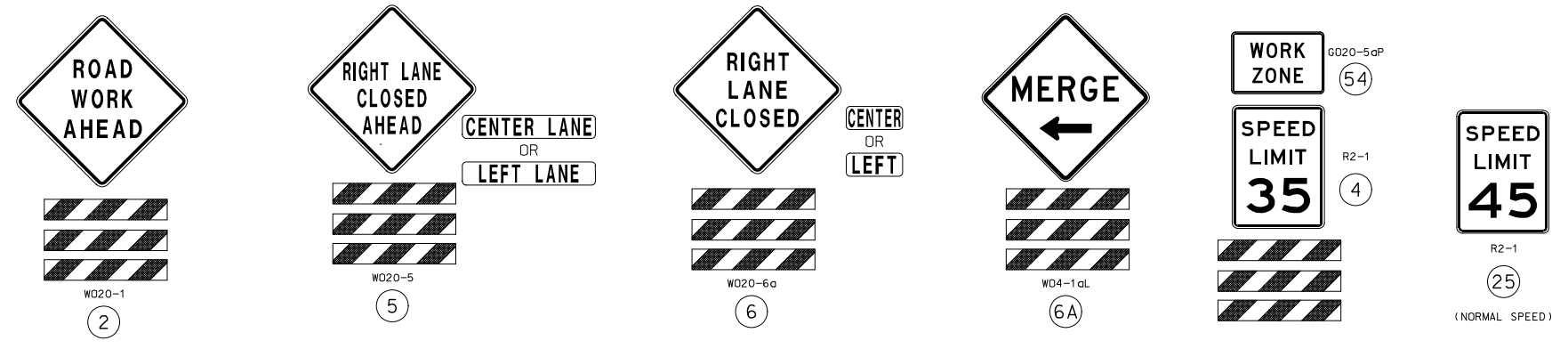
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL SHEET
STATIONARY LANE CLOSURE
ON A DIVIDED HIGHWAY
FOR BRIDGE DEMOLITION



LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER

NOT TO SCALE



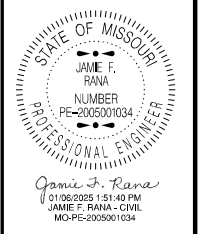
- TRAFFIC CONTROL LEGEND**
- SIGN (SINGLE SIDED)
 - ◄ DIRECTIONAL INDICATOR BARRICADE
 - CHANNELIZER (TRIM-LINE)
 - ▨ WORK AREA
 - ▬ TEMPORARY CONCRETE BARRIER
 - ⌋ END TREATMENT
 - ◻ FLASHING ARROW PANEL
 - ▨▨▨ ADVANCE WARNING RAILS

NOTES:

- REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.
- TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIERS.
- (3) FLARE BARRIER TO EXTEND BEYOND CLEAR ZONE OR FLARE BARRIER TO EDGE LINE AND USE APPROVED END TREATMENT.
- (3) CONCRETE BARRIER SHALL BE INSTALLED AT AN 8:1 FLARE RATE WITHIN THE TRAVEL LANES.
- (3) CONCRETE BARRIER MAY BE INSTALLED AT AN 8:1 FLARE RATE FROM THE SHOULDER POINT TO THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.
- (3) APPROVED CRASH CUSHION ARE TO BE USED WHEN THE POSTED SPEED LIMIT PRIOR TO ROAD WORK IS GREATER THAN OR EQUAL TO 40 MPH.
- (3) BARRIER HEIGHT TRANSITION MAY BE USED WHEN THE POSTED SPEED LIMIT PRIOR TO ROAD WORK IS LESS THAN 40 MPH.
- FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.
- IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.
- FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.
- REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.



DATE PREPARED
12/20/2024

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 62

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

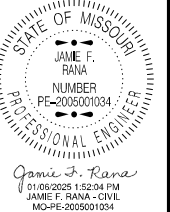
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
LANE CLOSURE WITH
TEMPORARY TRAFFIC BARRIER



James F. Rana
 01/06/2025 1:52:04 PM
 JAMES F. RANA - CIVIL
 MO-PE-200501034

DATE PREPARED
 12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

PROJECT NO.

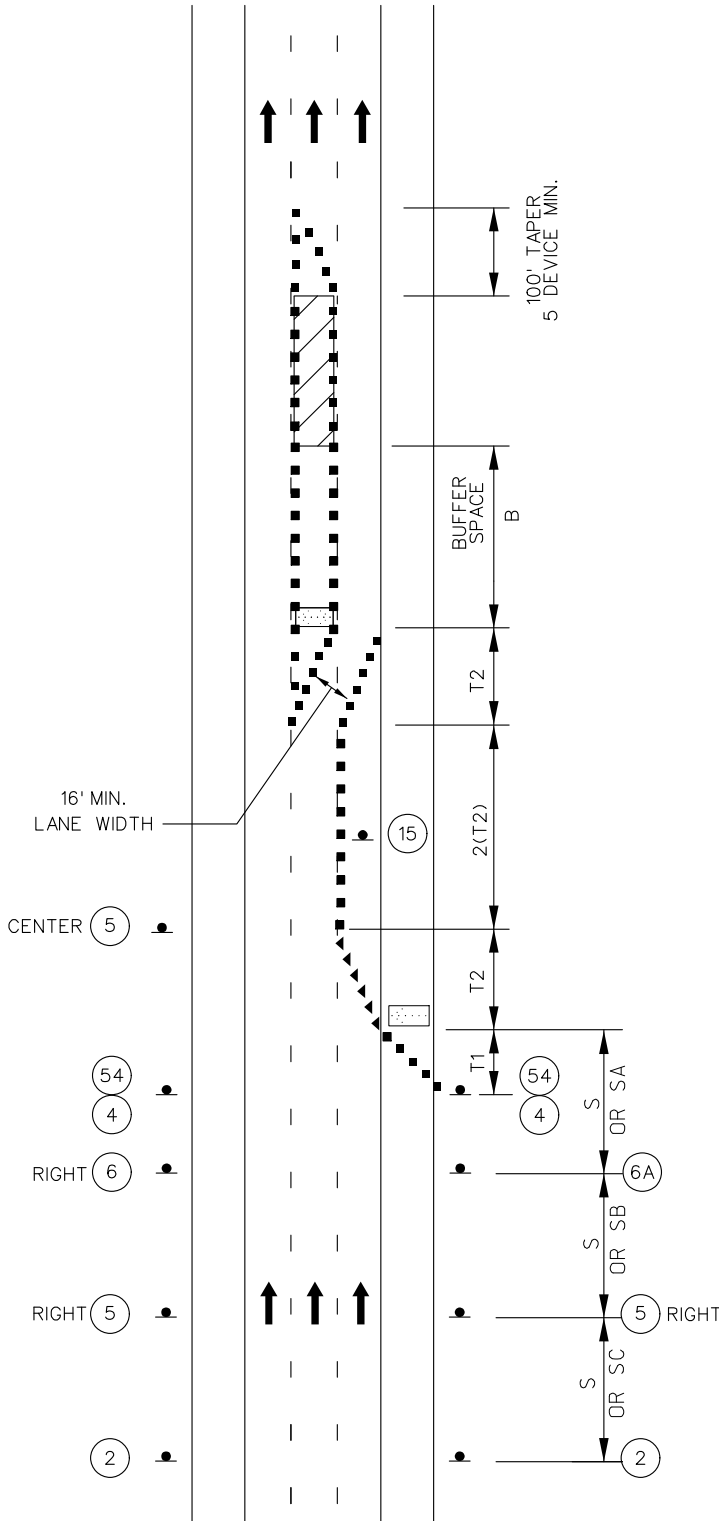
BRIDGE NO.

DATE	DESCRIPTION

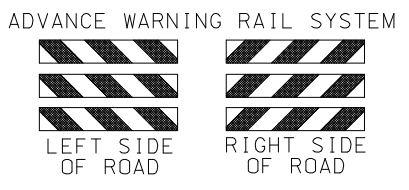
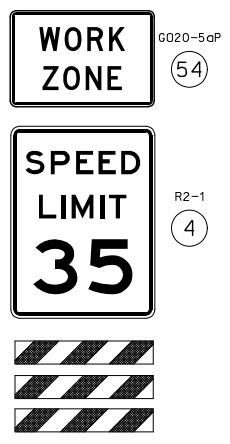
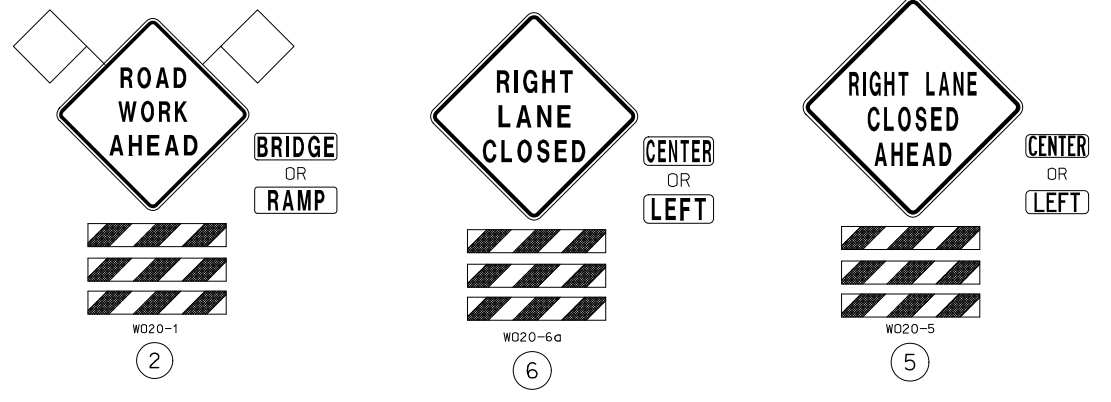
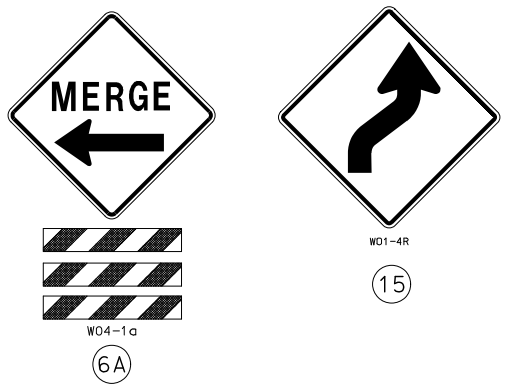
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
 INTERIOR LANE CLOSURE
 ON MULTI-LANE HIGHWAY



INTERIOR LANE CLOSURE
 ON MULTI-LANE HIGHWAY



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◀ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- ▨ WORK AREA
- ⋯ FLASHING ARROW PANEL
- 🚛 TRUCK MOUNTED ATTENUATOR (TMA)

NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

ALTERNATIVE TEMPORARY TRAFFIC CONTROL SET-UPS SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.

FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

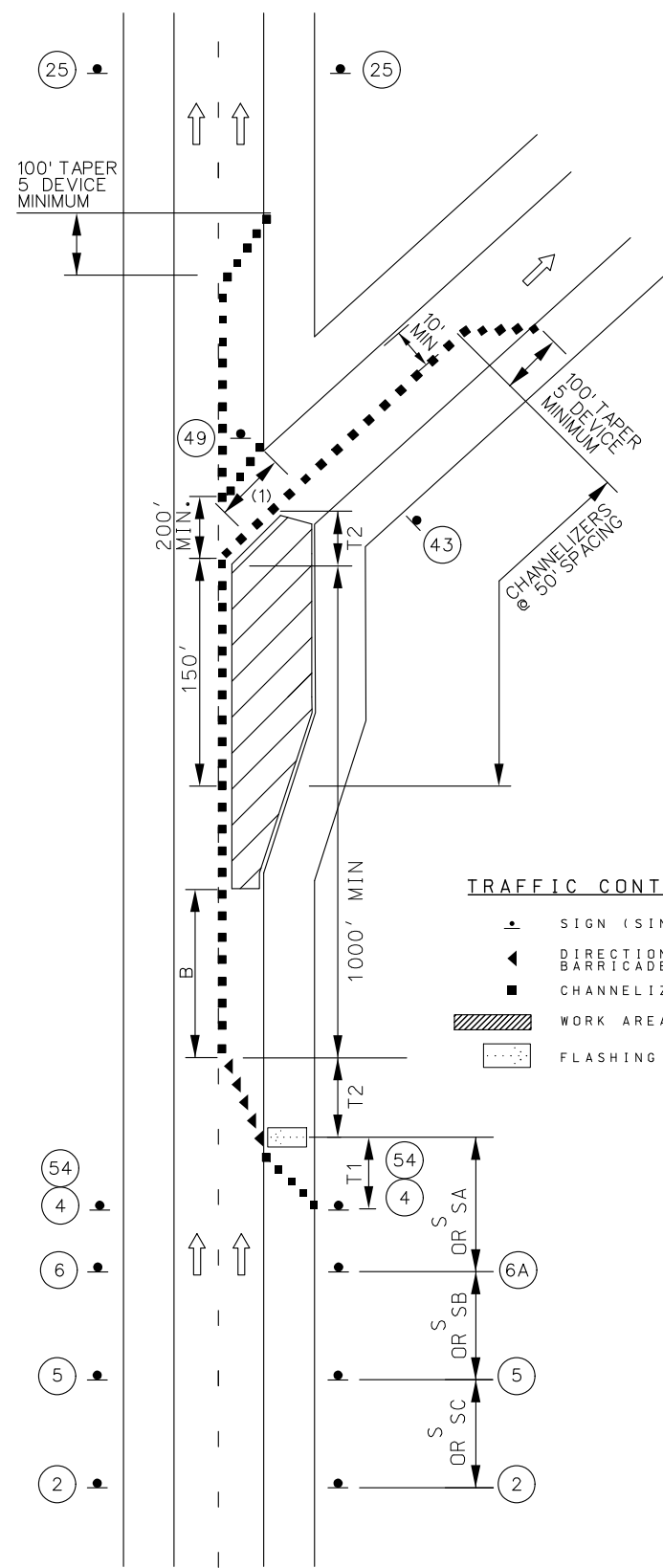
A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
 2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

NOT TO SCALE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

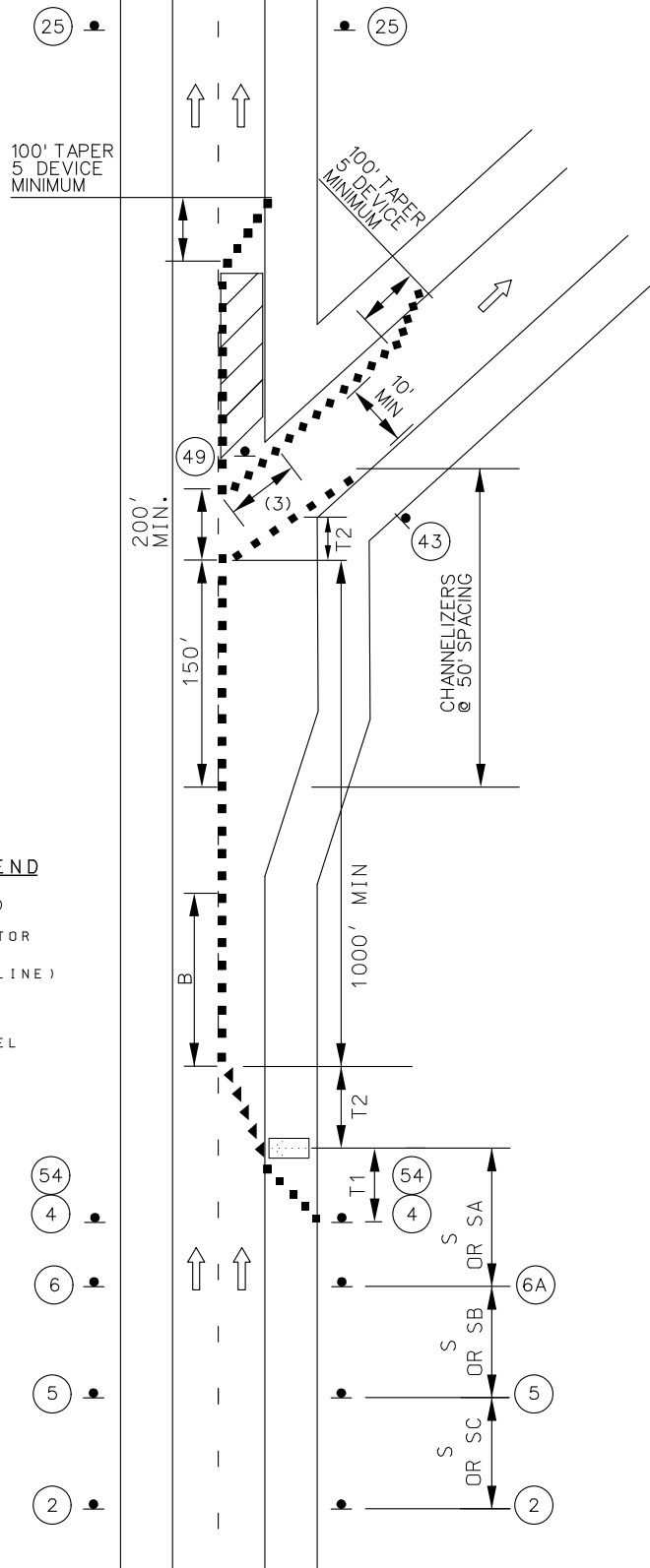


Diagram showing various traffic control signs and their placement:

- MERGE** (6A) - W04-1a
- ROAD WORK AHEAD** (2) - W020-1
- RIGHT LANE CLOSED** (6) - W020-6a
- RIGHT LANE CLOSED AHEAD** (5) - W020-5
- WORK ZONE** (54) - G020-5aP
- SPEED LIMIT 35** (4) - R2-1
- RAMP NARROWS** (43) - W05-1
- EXIT** (49) - E05-1

Diagram showing the **ADVANCE WARNING RAIL SYSTEM** with signs for the **LEFT SIDE OF ROAD** and **RIGHT SIDE OF ROAD**.

NOTES:

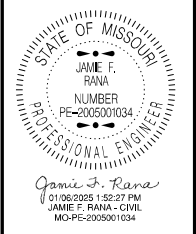
- REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
- RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED
- (3) 5 CHANNELIZER DEVICES MINIMUM
- IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.
- FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.
- FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.
- REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.



SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft) (B)	CHANNELIZER SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
 2. Lane taper length based on 12 ft. (standard lane width) offset.

WORK IN THE VICINITY OF AN EXIT RAMP



DATE PREPARED: 12/20/2024
 ROUTE: D, STATE: MO, DISTRICT: SL, SHEET NO.: 64
 COUNTY: ST. LOUIS
 JOB NO.: J6S3626
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

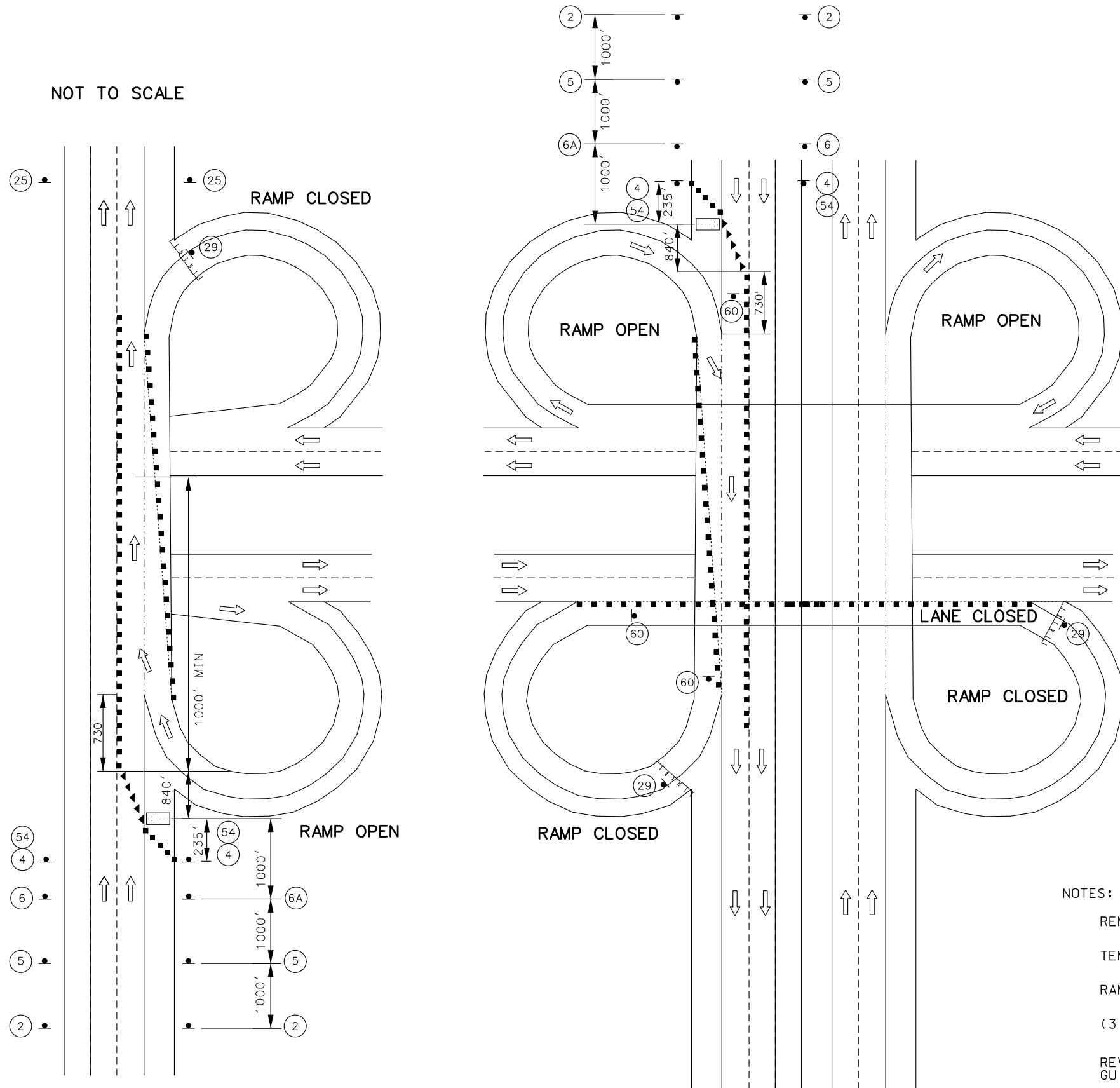
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**TRAFFIC CONTROL PLANS
 WORK IN VICINITY OF
 EXIT RAMP**

NOT TO SCALE



TRAFFIC CONTROL LEGEND

- ▲ SIGN (SINGLE SIDED)
- ▼ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- ▨ WORK AREA
- ⬇️ FLASHING ARROW PANEL

WORK ZONE SIGNS:

- W020-1: Advance warning rail system (2)
- W020-6a: Right Lane Closed (6)
- W020-5: Right Lane Closed Ahead (5)
- G020-5aP: Work Zone (54)
- R2-1: Speed Limit 35 (4)
- W04-1a: Merge (6A)
- R2-1 (NORMAL SPEED): Speed Limit 45 (25)

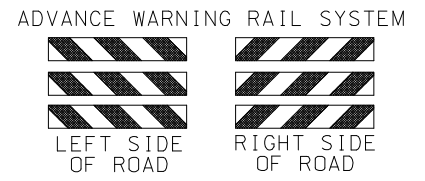
EXIT SIGNS:

- E05-1: Exit (49)
- E05-2a: Exit Closed (60)
- R11-2: Road Closed (29)

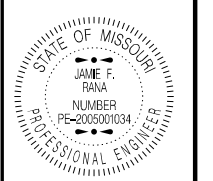
NOTES:

- REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
- RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED
- (3) 5 CHANNELIZER DEVICES MINIMUM
- REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

WORK IN THE VICINITY OF A LOOP RAMP
1 RAMP CLOSED



WORK IN THE VICINITY OF A LOOP RAMP
2 RAMPS CLOSED



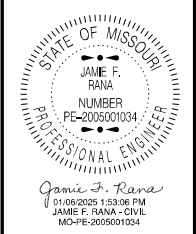
Jamie F. Rana
Professional Engineer
DATE PREPARED: 12/20/2024
ROUTE: D, STATE: MO, DISTRICT: SL, SHEET NO.: 65, COUNTY: ST. LOUIS, JOB NO.: J6S3626, CONTRACT ID.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TEMPORARY TRAFFIC CONTROL AT CLOVERLEAF INTERCHANGE



DATE PREPARED
12/20/2024

ROUTE D STATE MO
DISTRICT SL SHEET NO. 66

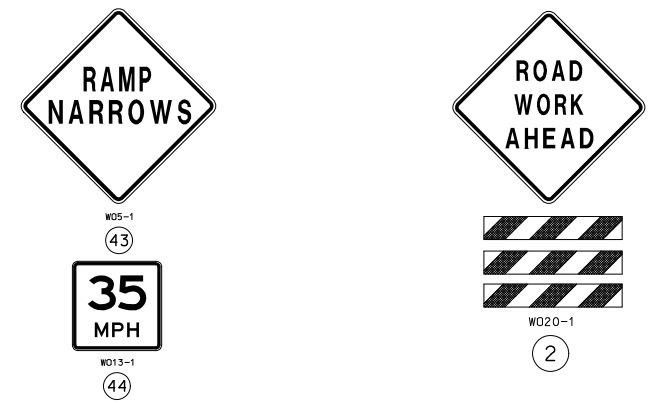
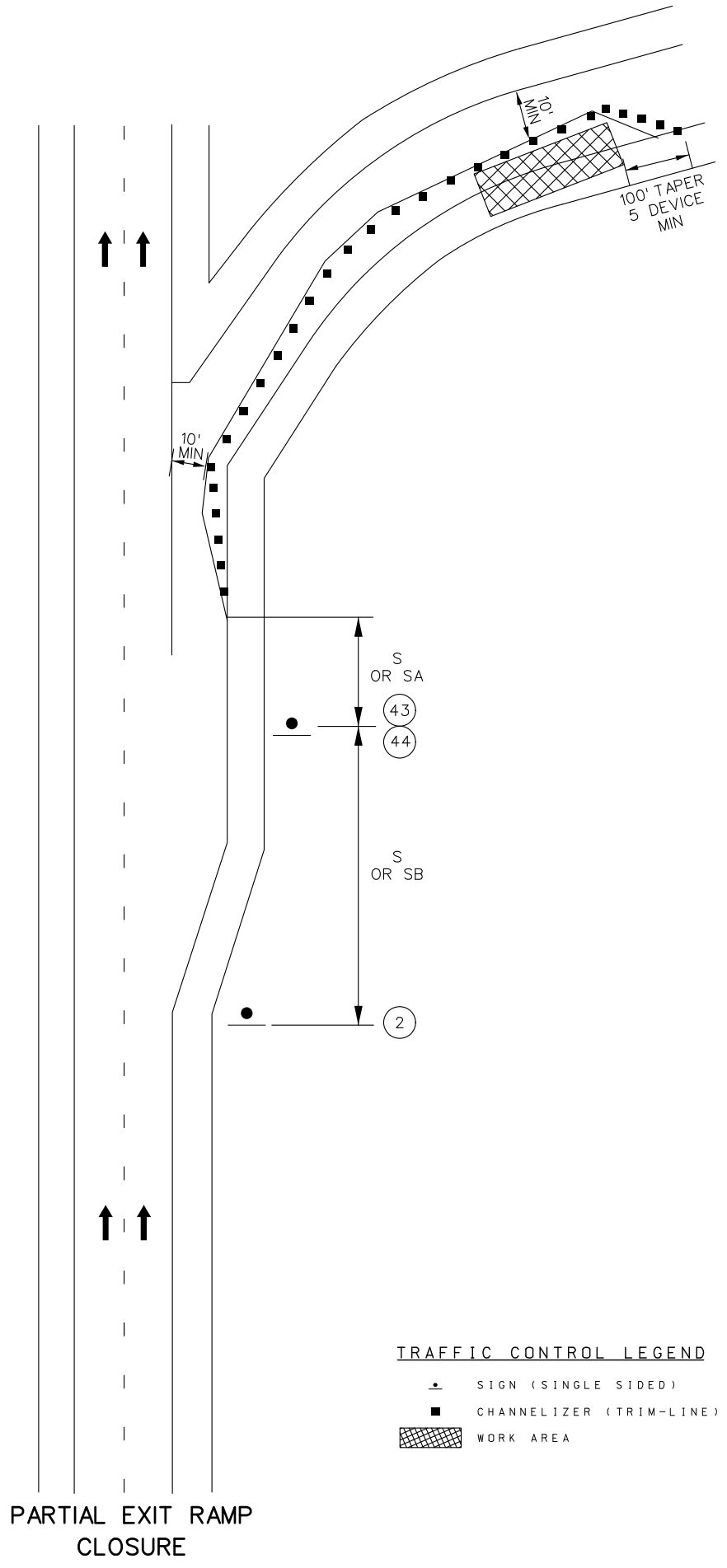
COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

CHANNELIZER (TRIM-LINE)

WORK AREA

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	UN-DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

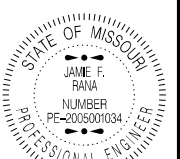
PARTIAL EXIT RAMP CLOSURE

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
PARTIAL EXIT RAMP
CLOSURE



James F. Rana
 (01/05/2025 1:53:24 PM)
 JAMES F. RANA - CIVIL
 MO-PE-200501034

DATE PREPARED
 12/20/2024

ROUTE STATE
 D MO

DISTRICT SHEET NO.
 SL 67

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

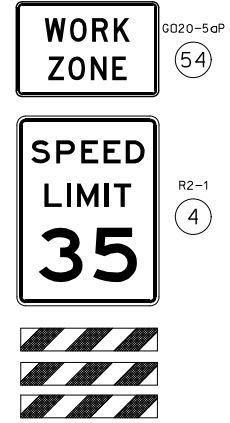
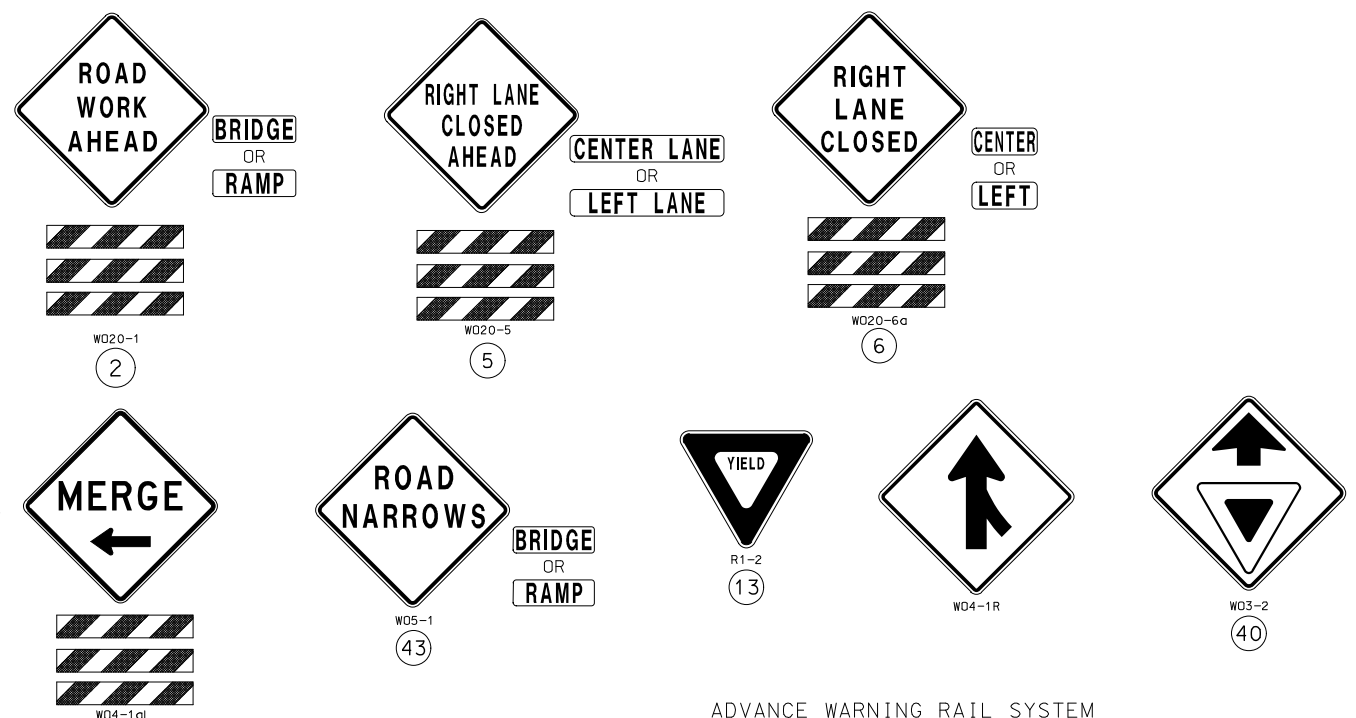
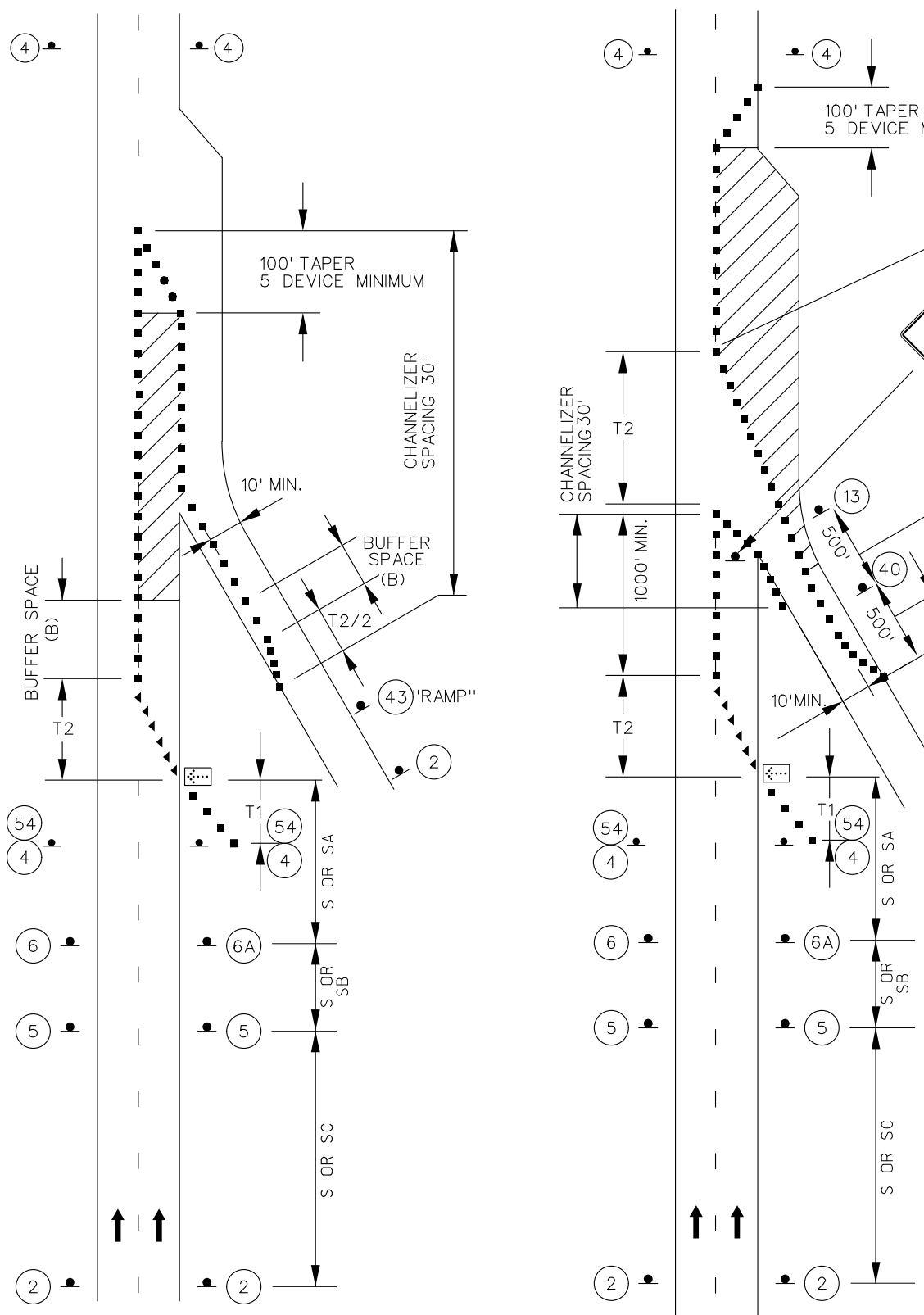
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
 WORK IN VICINITY OF
 AN ENTRANCE RAMP



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADES

NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED. TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES. RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

YIELD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC. WHERE INADEQUATE ACCELERATION DISTANCE EXISTS FOR THE TEMPORARY ENTRANCE, THE YIELD SIGN SHALL BE REPLACED WITH STOP SIGNS (ONE ON EACH SIDE OF THE APPROACH).

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

FOR RAMP WITH SHARP CURVES OR MULTIPLE LANES, RAMP SIGNS MAY BE PLACED ON BOTH SIDES OF THE RAMP.

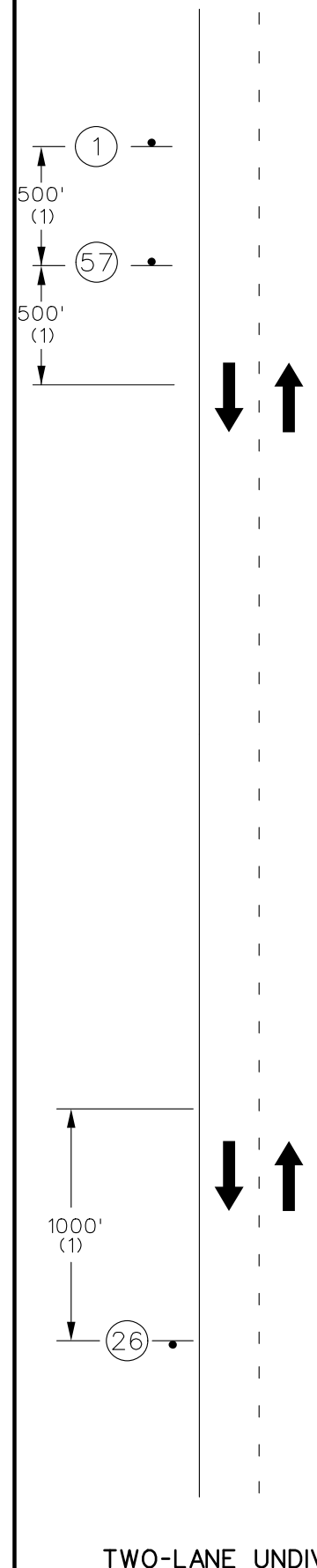
THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	UN-DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80

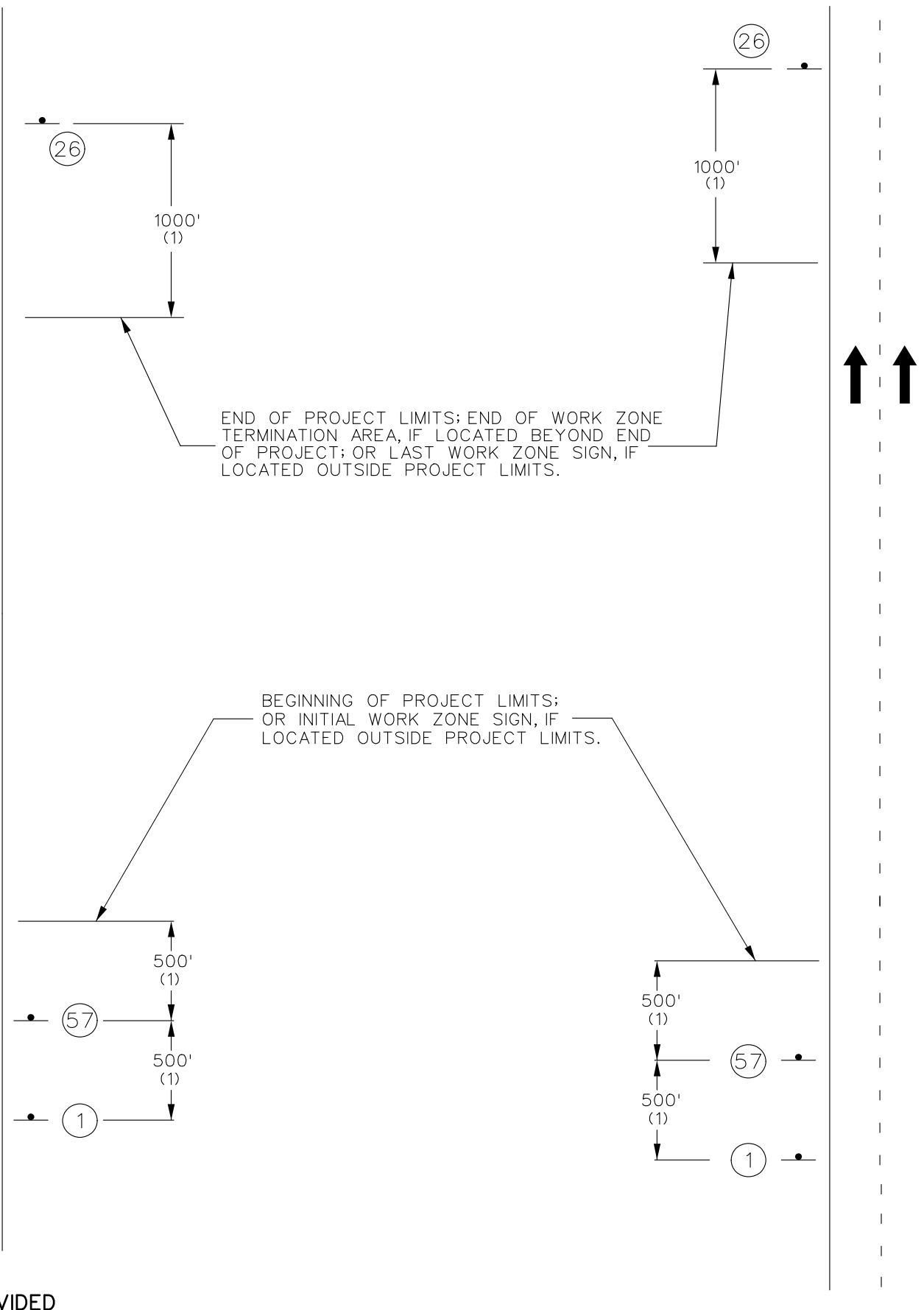
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
 2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

WORK IN THE VICINITY
 OF AN ENTRANCE RAMP



TWO-LANE UNDIVIDED



MULTI-LANE DIVIDED

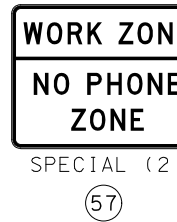
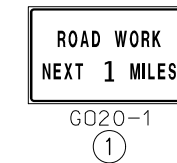
NOTES:

SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.
OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

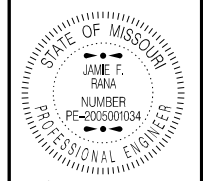
(2) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



END OF PROJECT LIMITS; END OF WORK ZONE TERMINATION AREA, IF LOCATED BEYOND END OF PROJECT; OR LAST WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

BEGINNING OF PROJECT LIMITS; OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

BEGIN/END OF PROJECT SIGNING (FOR USE ON ALL PROJECTS)



Jamie F. Rana
01/06/2025 1:54:09 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



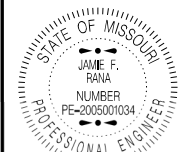
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL PLANS
BEGIN/END OF PROJECT
SIGNING

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. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

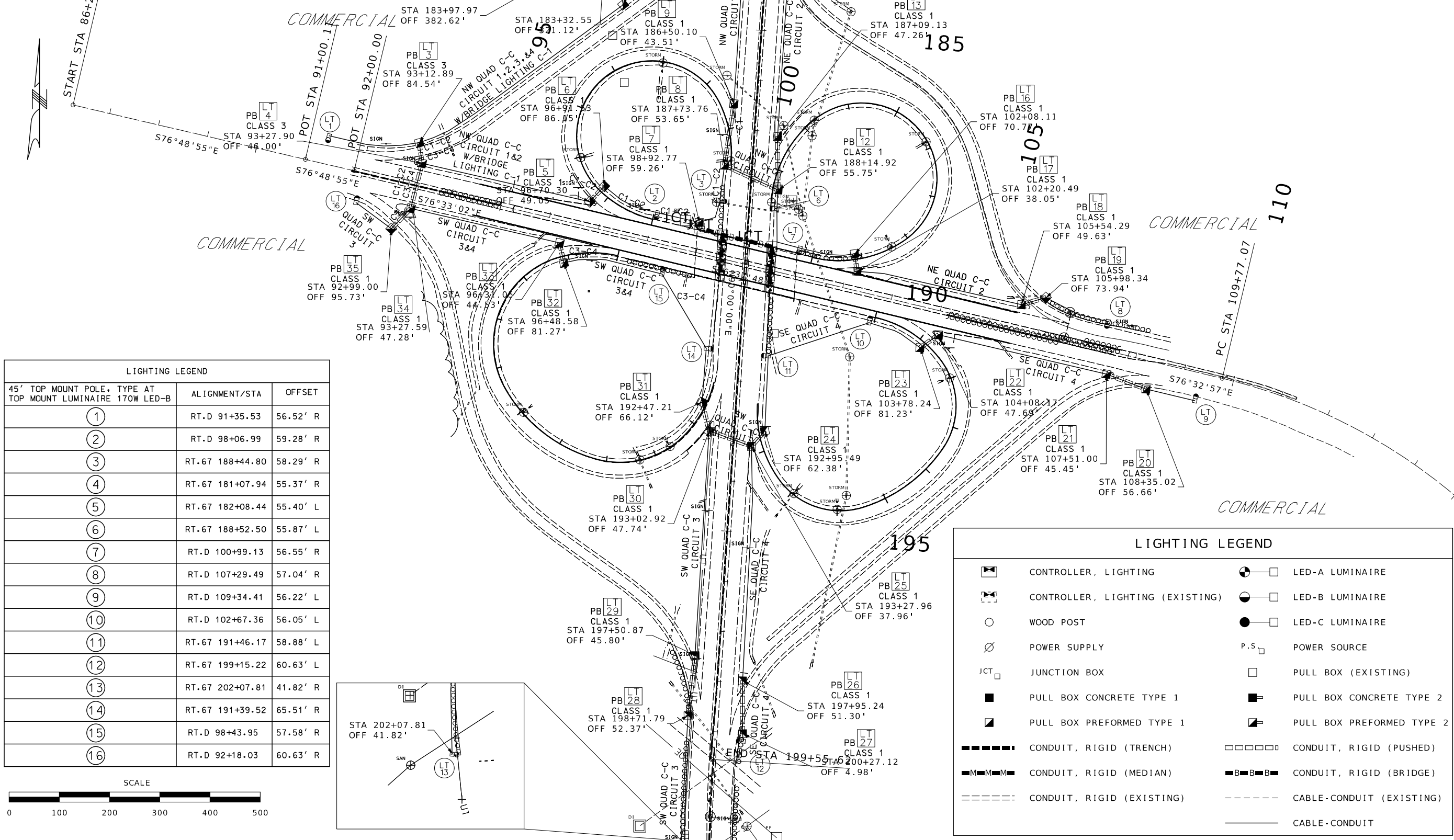
SINGLE METER
240V/480V
PS & LIGHTING
CONTROLLER W/UPS
(APPROX. 104'
TO POWER
SOURCE)
STA - 183+04.19 L
OS - 335.16'

NOTE: SEE BRIDGE LIGHTING PLAN SHEET FOR BRIDGE LIGHTING INFORMATION.

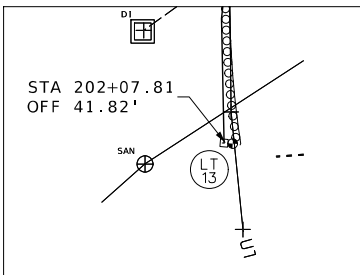
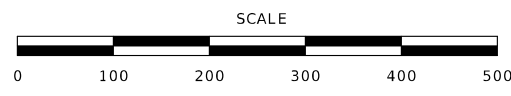


Jamie F. Rana
01/06/2025 1:54:41 PM
JAMIE F. RANA - CIVIL
MO-PE-200501034

DATE PREPARED	
12/30/2024	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	69
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



LIGHTING LEGEND		
45' TOP MOUNT POLE, TYPE AT TOP MOUNT LUMINAIRE 170W LED-B	ALIGNMENT/STA	OFFSET
1	RT.D 91+35.53	56.52' R
2	RT.D 98+06.99	59.28' R
3	RT.67 188+44.80	58.29' R
4	RT.67 181+07.94	55.37' R
5	RT.67 182+08.44	55.40' L
6	RT.67 188+52.50	55.87' L
7	RT.D 100+99.13	56.55' R
8	RT.D 107+29.49	57.04' R
9	RT.D 109+34.41	56.22' L
10	RT.D 102+67.36	56.05' L
11	RT.67 191+46.17	58.88' L
12	RT.67 199+15.22	60.63' L
13	RT.67 202+07.81	41.82' R
14	RT.67 191+39.52	65.51' R
15	RT.D 98+43.95	57.58' R
16	RT.D 92+18.03	60.63' R



LIGHTING LEGEND	
[Symbol]	CONTROLLER, LIGHTING
[Symbol]	CONTROLLER, LIGHTING (EXISTING)
[Symbol]	WOOD POST
[Symbol]	POWER SUPPLY
[Symbol]	JUNCTION BOX
[Symbol]	PULL BOX CONCRETE TYPE 1
[Symbol]	PULL BOX PREFORMED TYPE 1
[Symbol]	CONDUIT, RIGID (TRENCH)
[Symbol]	CONDUIT, RIGID (MEDIAN)
[Symbol]	CONDUIT, RIGID (EXISTING)
[Symbol]	LED-A LUMINAIRE
[Symbol]	LED-B LUMINAIRE
[Symbol]	LED-C LUMINAIRE
[Symbol]	P.S. POWER SOURCE
[Symbol]	PULL BOX (EXISTING)
[Symbol]	PULL BOX CONCRETE TYPE 2
[Symbol]	PULL BOX PREFORMED TYPE 2
[Symbol]	CONDUIT, RIGID (PUSHED)
[Symbol]	CONDUIT, RIGID (BRIDGE)
[Symbol]	CABLE-CONDUIT (EXISTING)
[Symbol]	CABLE-CONDUIT

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

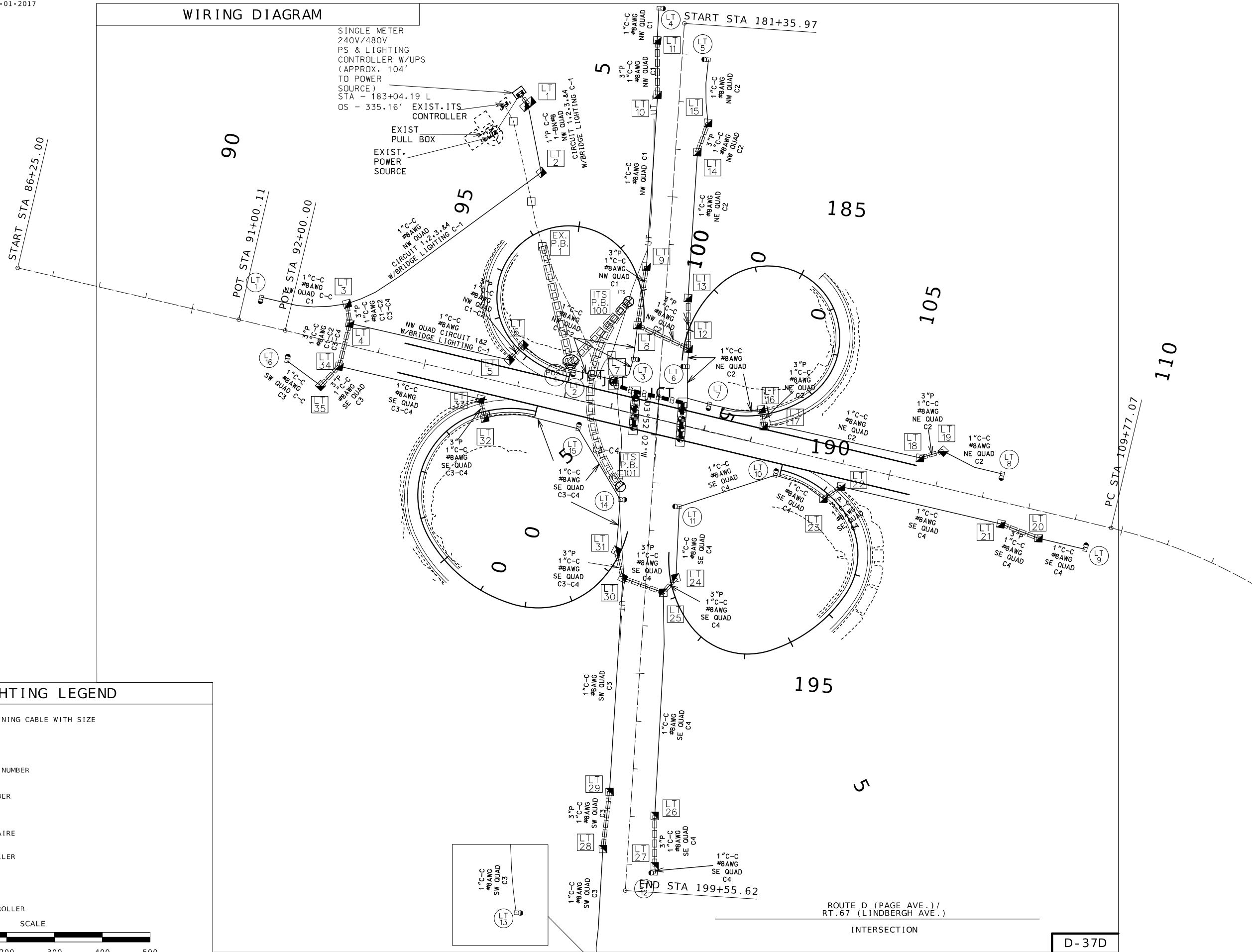
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LIGHTING
ROUTE D (PAGE AVE) /
67 (LINDERBERG AVE)
PLAN SHEET

WIRING DIAGRAM

SINGLE METER
240V/480V
PS & LIGHTING
CONTROLLER W/UPS
(APPROX. 104'
TO POWER
SOURCE)
STA - 183+04.19 L
OS - 335.16'

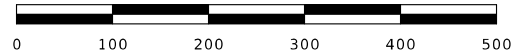
EXIST. ITS
CONTROLLER
EXIST.
PULL BOX
EXIST.
POWER
SOURCE



LIGHTING LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- FIBER CABLE
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- PULL BOX
- LED - B LUMINAIRE
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER

SCALE



DATE PREPARED
12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	70

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

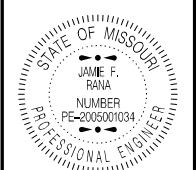
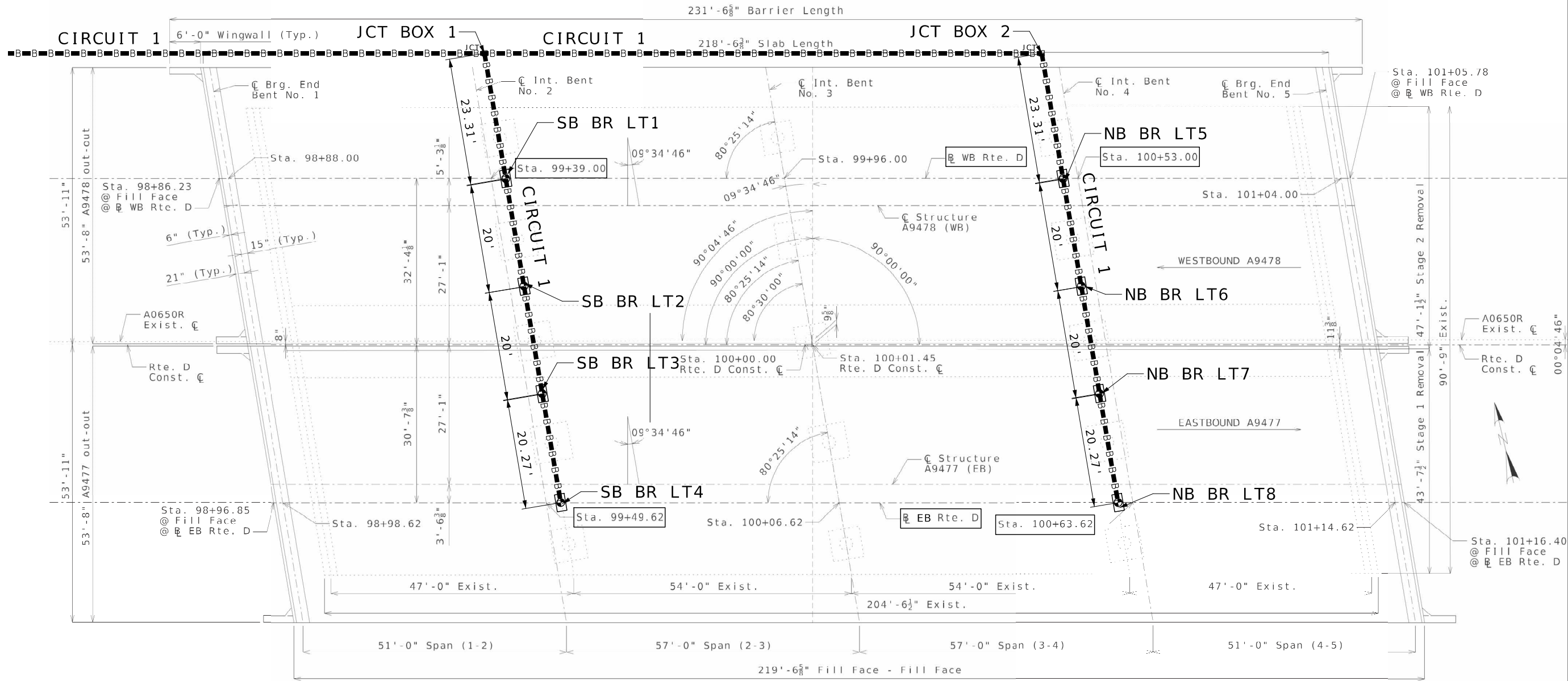
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

WIRING DIAGRAM
ROUTE D (PAGE AVE.) /
ROUTE 67 (LINDBERGH AVE.)
PLAN SHEET

BRIDGE LIGHTING
 SPLICING INTO LT PB7
 CLOVERLEAF CIRCUIT 1

BRIDGE LIGHTING PLAN



DATE PREPARED
 12/20/2024

ROUTE STATE
 D MO

DISTRICT SHEET NO.
 SL 71

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

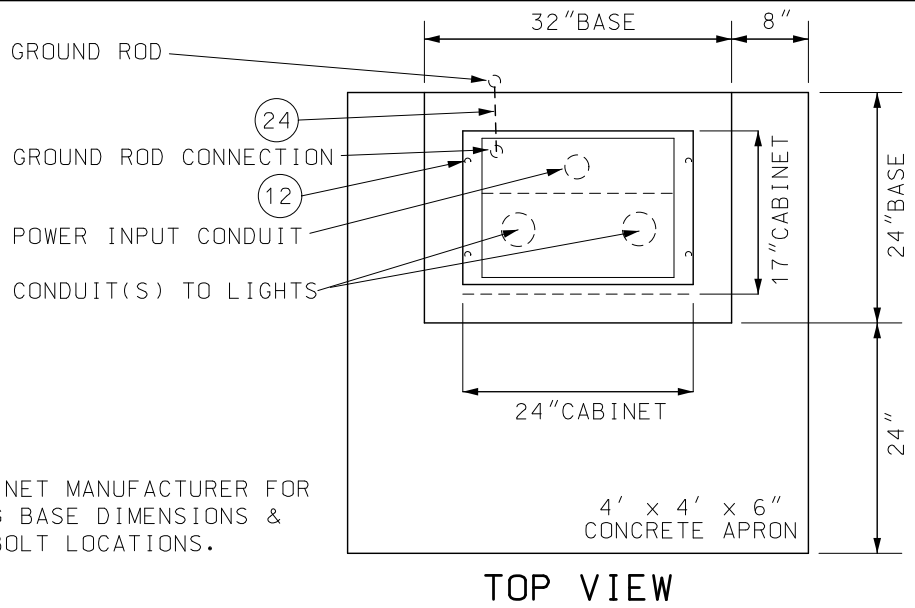
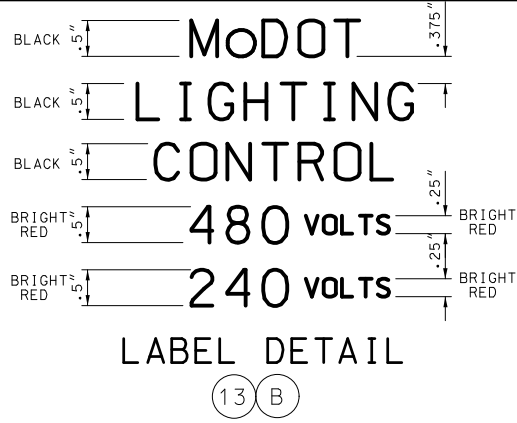
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

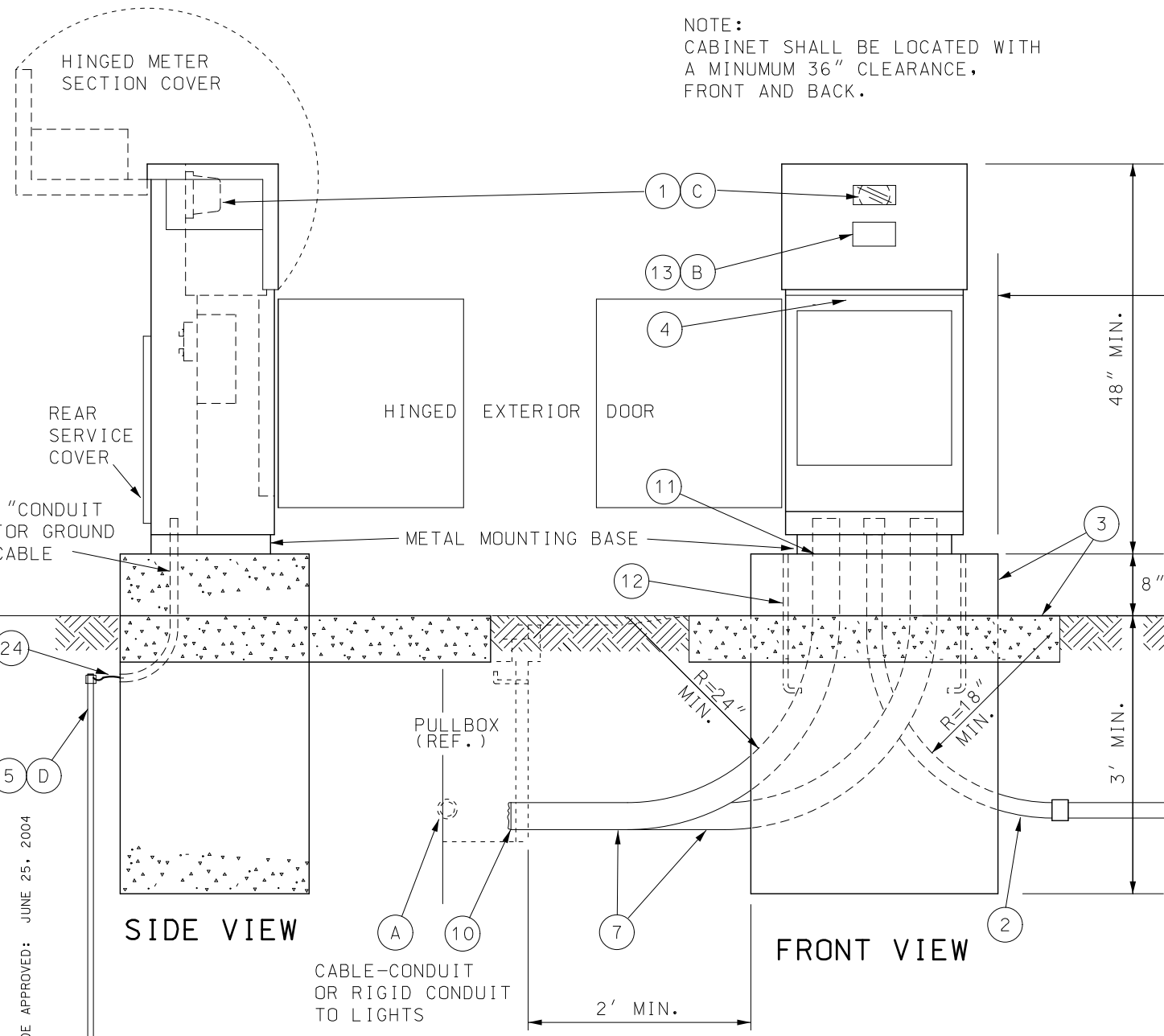
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
 BRIDGE LIGHTING



SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS & ANCHOR BOLT LOCATIONS.

NOTE:
 CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT AND BACK.



LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 0.9 C.Y. ±
4	NEMA 4, DUST-TIGHT, WATERTIGHT, CABINET
5	GROUND ROD, 3/4" DIA. X 8' MIN. (MIN. 8' IN SOIL)
7	RIGID CONDUIT TO FIRST PULL BOX (SEE PLANS FOR SIZE)
10	PLIABLE DUCT SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
24	GROUND WIRE, #2 AWG. MIN.

- NOTES**
- A IF CABLE-CONDUIT IS SPECIFIED, THE CONDUIT SHALL BE CUT AWAY FROM CABLES BETWEEN PULL BOX AND CONTROL STATION.
 - B LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.
 - C CONTROLLER CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED, AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.
 - D IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.
 - E UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTERS ARE TO BE CONNECTED ON THE LOAD OR LINE SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DECIDE WHERE THE LIGHTNING ARRESTER SHALL BE MOUNTED.

GENERAL NOTES:

ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.

PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.

CABINET SHALL BE LOCATED AWAY FROM TRAFFIC. TOP MOUNT PHOTO CONTROL SHALL FACE AN OPEN SKY. SIDE MOUNT PHOTO CONTROL SHALL FACE NORTH.

SEE PLANS FOR CIRCUIT WIRING; MAXIMUM LOADING PER CIRCUIT IS 7,400 WATTS FOR 240 VOLT AND 11,000 WATTS FOR 480 VOLT.

SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.

THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.

ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.

ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'COMBINATION BASE MOUNTED POWER SUPPLY AND LIGHTING CONTROL STATION'.

CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN PRICE BID FOR 'COMBINATION BASE MOUNTED POWER SUPPLY AND 'CONTROL STATION'.

06DE APPROVED: JUNE 25, 2004

STATE OF MISSOURI
 JAMIE F. RANA
 NUMBER
 PE-2005001034
 PROFESSIONAL ENGINEER

Jamie F. Rana
 01/06/2025 1:58:53 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 12/20/2024

ROUTE
 D MO

DISTRICT
 SL SHEET NO.
 72

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

PROJECT NO.

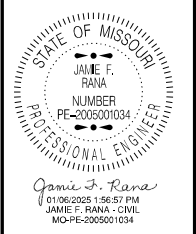
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
 PAD MOUNTED 240V/480V POWER SUPPLY & LIGHTING CONTROLLER
 SHEET 1 OF 2



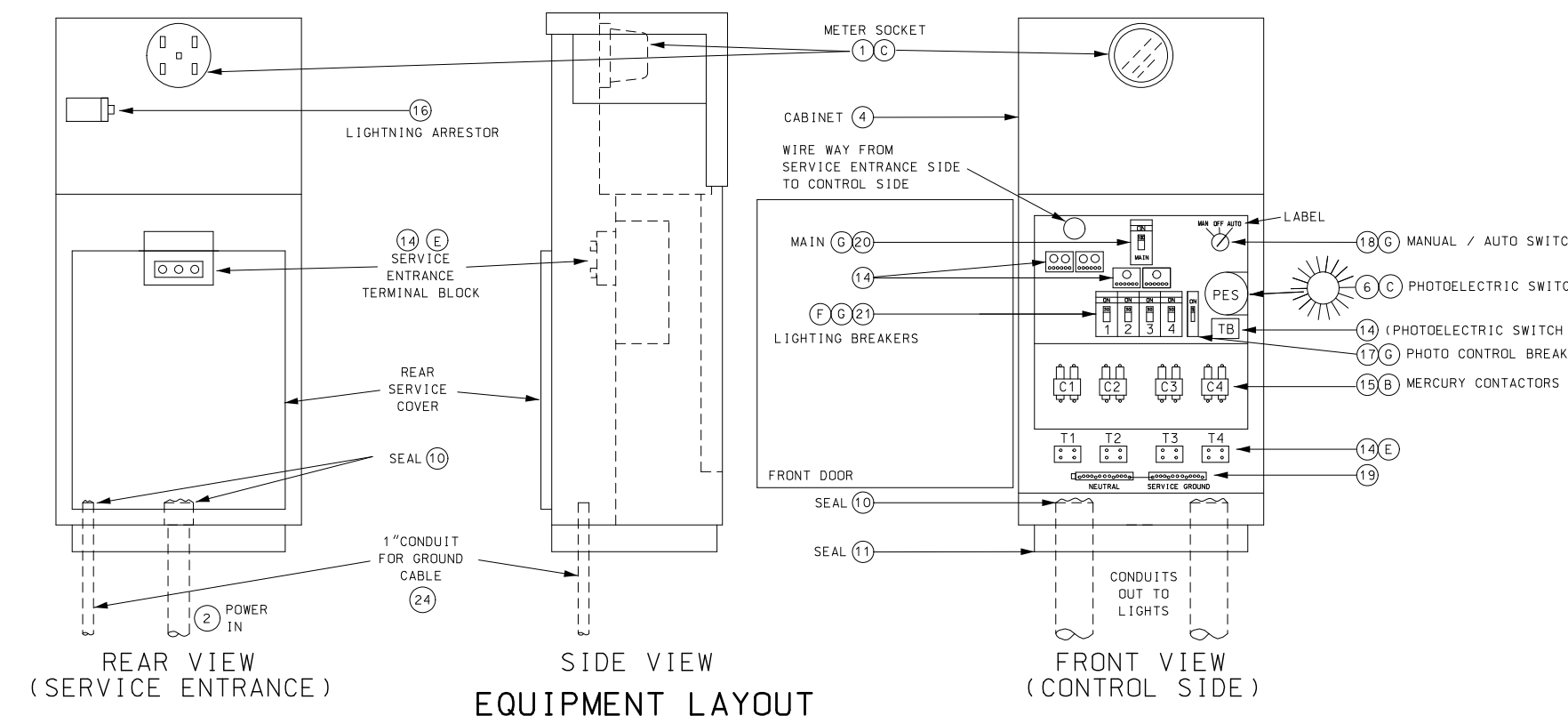
DATE PREPARED
12/20/2024
ROUTE D STATE MO
DISTRICT SL SHEET NO. 73
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

SPECIAL SHEET
PAD MOUNTED 240V/480V POWER
SUPPLY & LIGHTING CONTROLLER
SHEET 2 OF 2



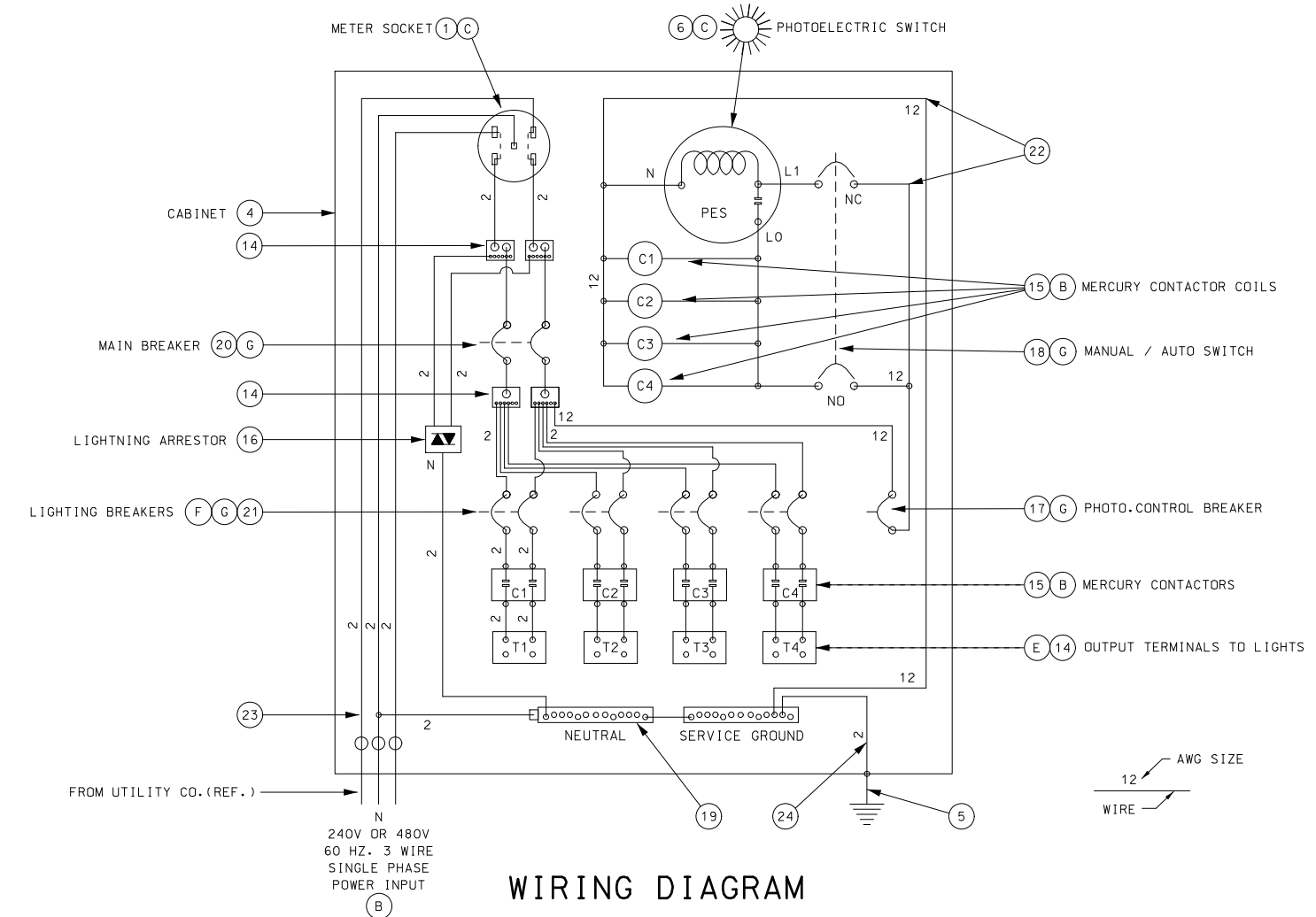
LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. X 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
14	INSULATED TERMINAL BLOCK
(240V)	2-POLE, 35 AMP, 120V COIL LIGHTING CONTACTOR (MERCURY)
15(480V)	2-POLE, 35 AMP, 240V COIL LIGHTING CONTACTOR (MERCURY)
16	2-POLE, 650 VOLT LIGHTING ARRESTER
15 17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, 100 AMP, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP(MIN), TYPE A LIGHTING BREAKERS
22	#12 AWG MIN., 600 V. CONTROL CABLE
23	#2 AWG MIN., 600 V. * POWER CABLE
24	#2 AWG MIN., 600 V. GROUND CABLE
*	SEE PLANS FOR SIZE

NOTES

- (B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.
- (C) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.
- (E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.
- (F) LIGHTING BREAKER SIZING:

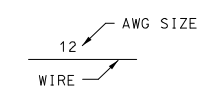
SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	480V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0 - 5500
20	2850-3700	5550 - 7400
25	3750-4600	7450 - 9200
30	4650-5500	9250 - 11,000
35	5550-6500	---
40	6550-7400	---

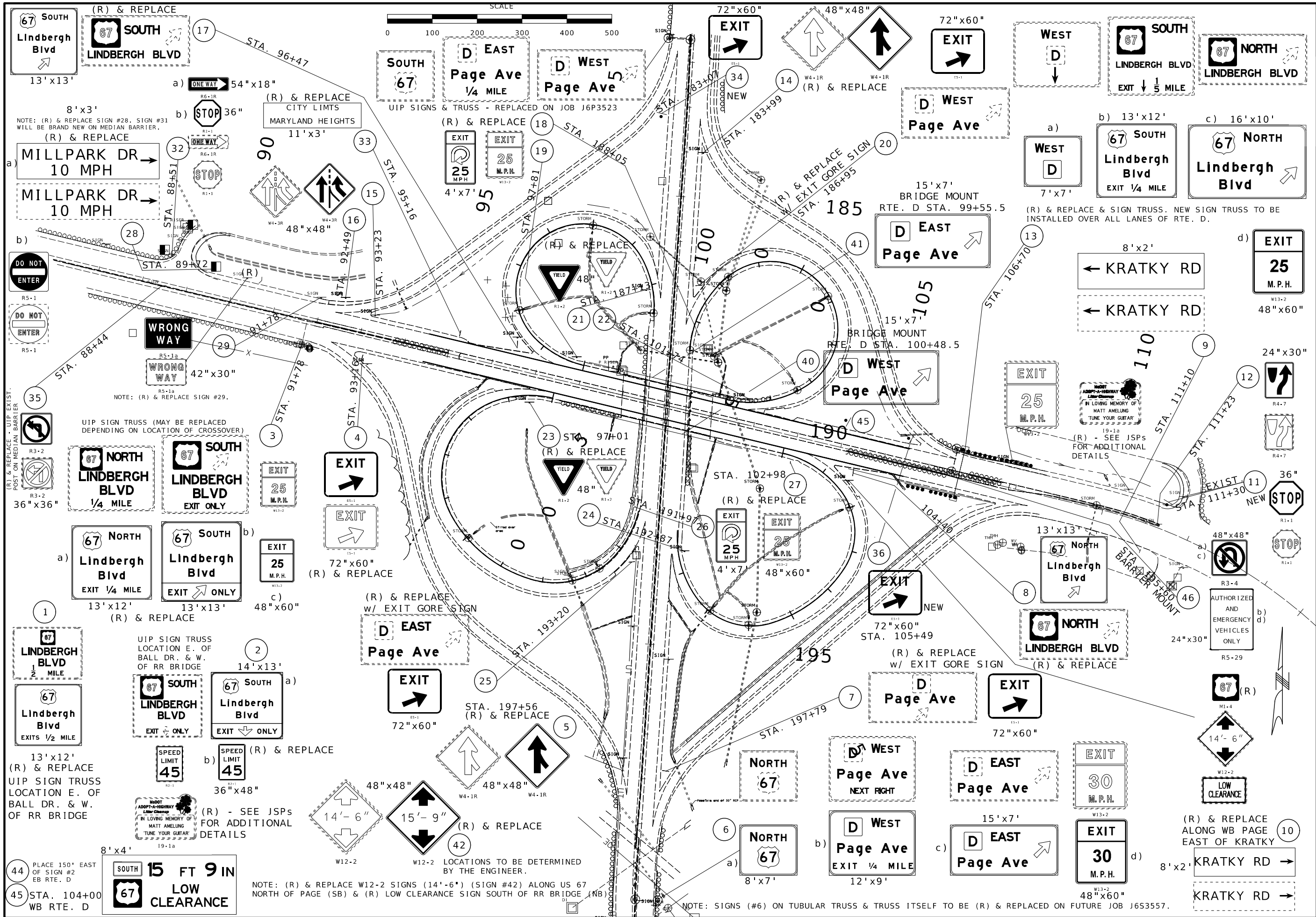
CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.
- (G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.



D6DE APPROVED: JUNE 25, 2004

240V OR 480V
60 HZ. 3 WIRE
SINGLE PHASE
POWER INPUT
(B)





DATE PREPARED
12/30/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	74

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

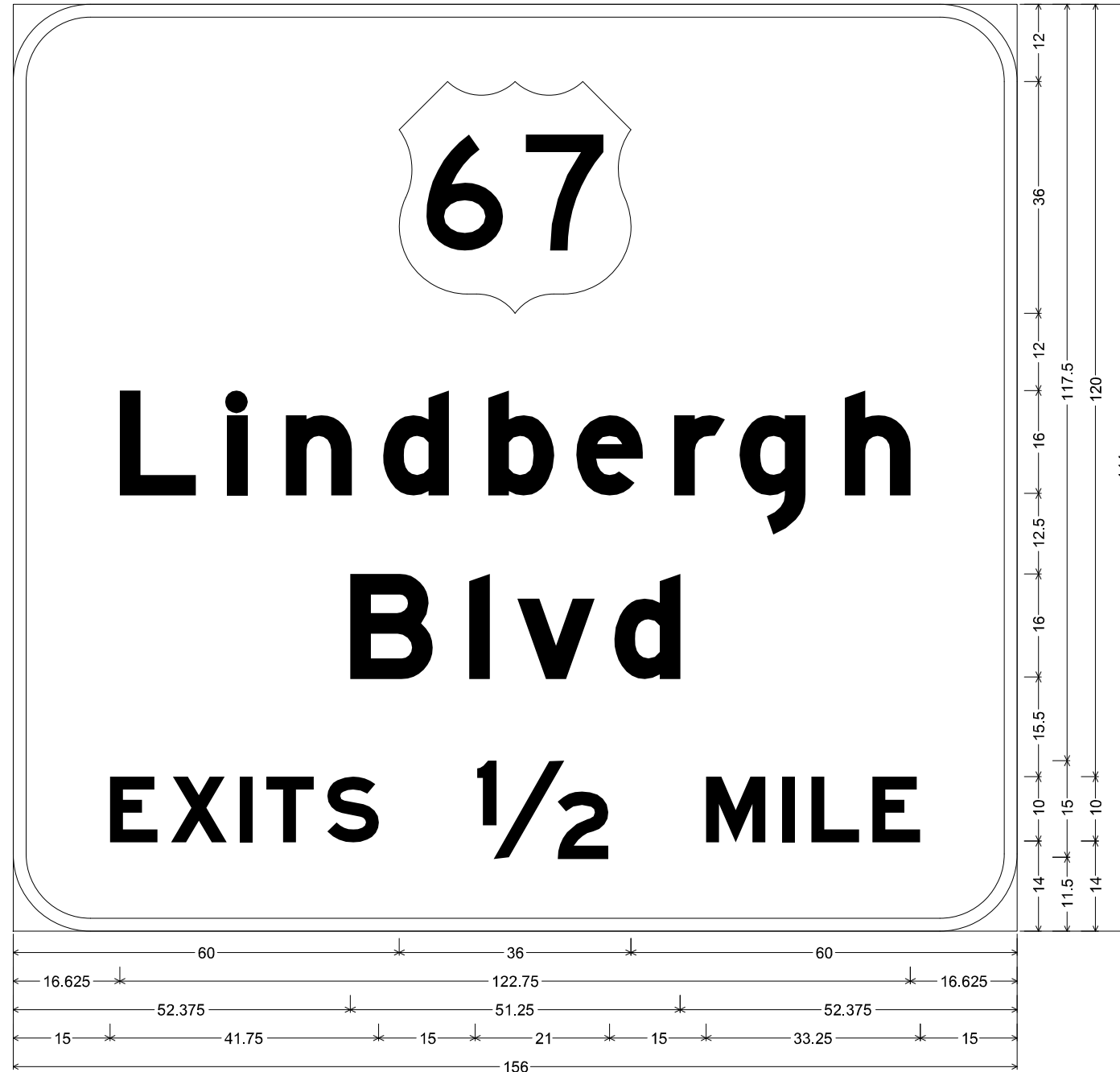
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING PLANS



SIGN NO.	1
STATION	EAST OF BALL DR.
ROADWAY	EB RTE. D

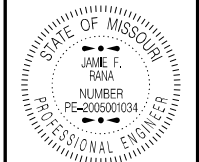
E1-1 ST-STRUCTURAL;

12.000" Radius, 2.000" Border, White on, Green;

"Lindbergh", E Mod; "Blvd", E Mod; "EXITS", E Mod; "1/2", E Mod; "MILE", E Mod;

Table of letter and object lefts

67										
60.000										
L	i	n	d	b	e	r	g	h		
16.625	33.250	42.375	57.500	73.875	87.500	102.750	112.875	129.250		
B	I	v	d							
52.375	70.875	78.375	93.375							
E	X	I	T	S	1/2	M	I	L	E	
15.000	24.500	35.250	39.375	48.875	71.750	107.750	119.500	124.000	133.500	



Jamie F. Rana
01/08/2025 1:58:47 PM
JAMIE F. RANA - CIVIL
MC-PE-2005001034

DATE PREPARED
12/20/2024

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 78

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

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DESCRIPTION

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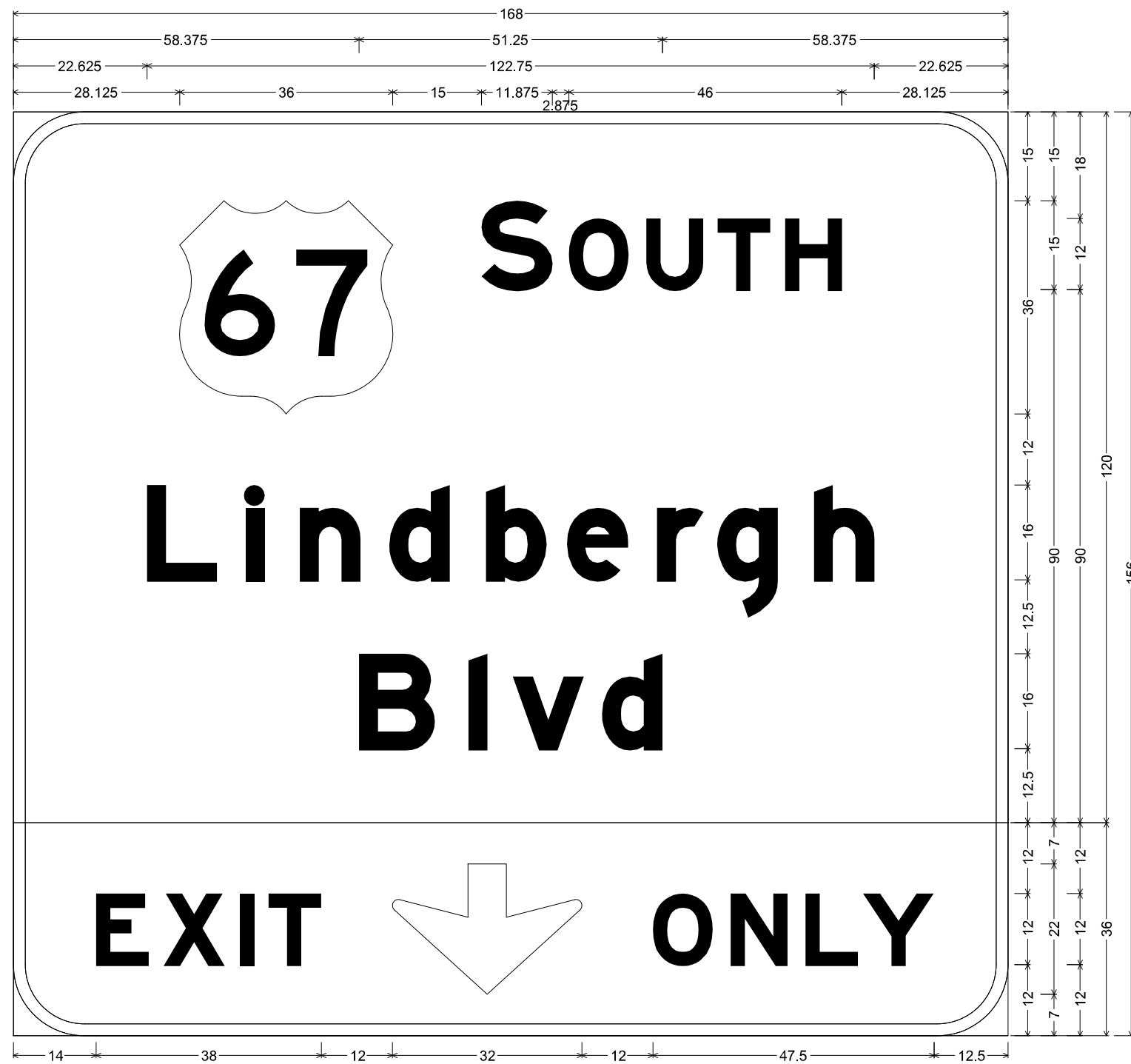
DESCRIPTION

DATE

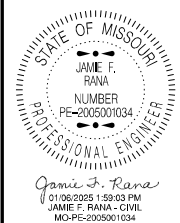
DESCRIPTION

DATE

DESCRIPTION



SIGN NO.	2
STATION	EAST OF BALL DR.
ROADWAY	EB RTE. D



DATE PREPARED 12/20/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 79
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

SIGN DETAILS

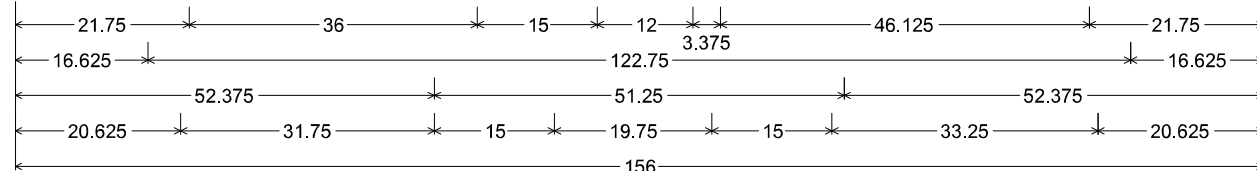
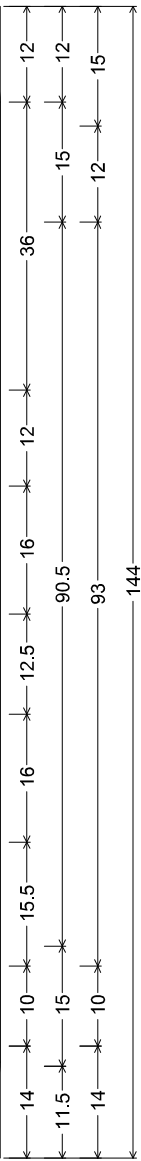
E1-1 ST-STRUCTURAL;
 12.000" Radius, 2.000" Border, White on, Green;
 "SOUTH", E Mod; "Lindbergh", E Mod; "Blvd", E Mod;

STF-STRUCTURAL FLUORESCENT;
 12.000" Radius, 2.000" Border, Black on, Yellow;
 "EXIT", E Mod; Down Arrow 22.000" 270"; "ONLY", E Mod;

Table of letter and object lefts

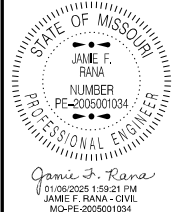
67	S	O	U	T	H			
28.125	79.125	93.875	106.875	119.000	130.375			
L	l	n	d	b	e	r	g	h
22.625	39.250	48.375	63.500	79.875	93.500	108.750	118.875	135.250
B	l	v	d					
58.375	76.875	84.375	99.375					
E	X	l	T	↓	O	N	L	Y
14.000	25.375	38.250	43.125	64.000	108.000	121.125	133.750	143.500

SIGN NO.	3A
STATION	91+78
ROADWAY	EB RTE. D



E1-1 ST-STRUCTURAL;
 12.000" Radius, 2.000" Border, White on, Green;
 "NORTH", E Mod; "Lindbergh", E Mod; "Blvd", E Mod; "EXIT", E Mod; "1/4", E Mod; "MILE", E Mod;
 Table of letter and object lefts

67	N	O	R	T	H			
21.750	72.750	88.125	101.250	113.250	124.750			
L	i	n	d	b	e	r	g	h
16.625	33.250	42.375	57.500	73.875	87.500	102.750	112.875	129.250
B	l	v	d					
52.375	70.875	78.375	93.375					
E	X	l	T	1/4	M	l	L	E
20.625	30.125	40.875	45.000	67.375	102.125	113.875	118.375	127.875

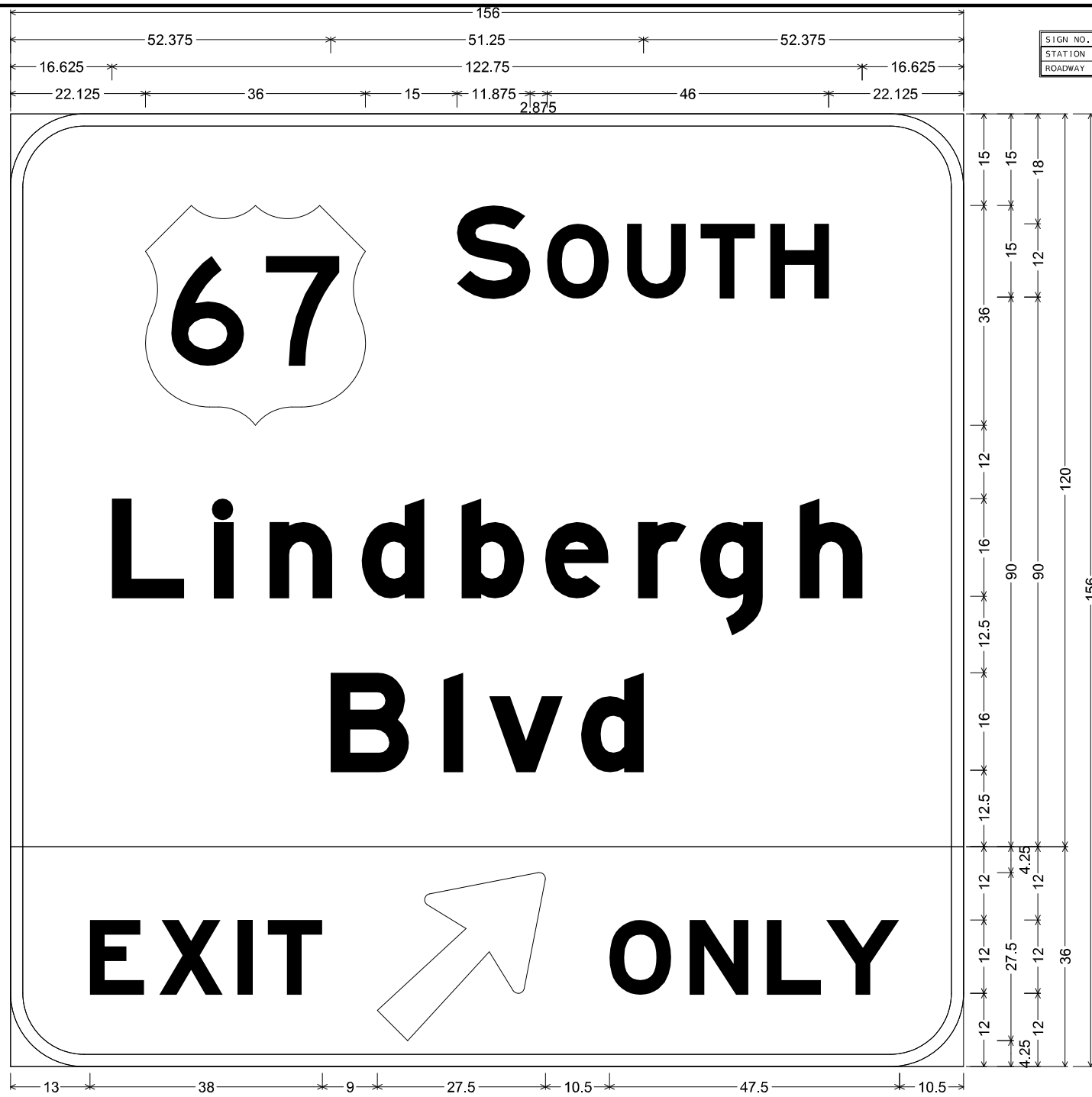


DATE PREPARED		12/20/2024
ROUTE	STATE	D MO
DISTRICT	SHEET NO.	SL 80
COUNTY		
ST. LOUIS		
JOB NO.		
J6S3626		
CONTRACT ID.		
PROJECT NO.		
BRIDGE NO.		

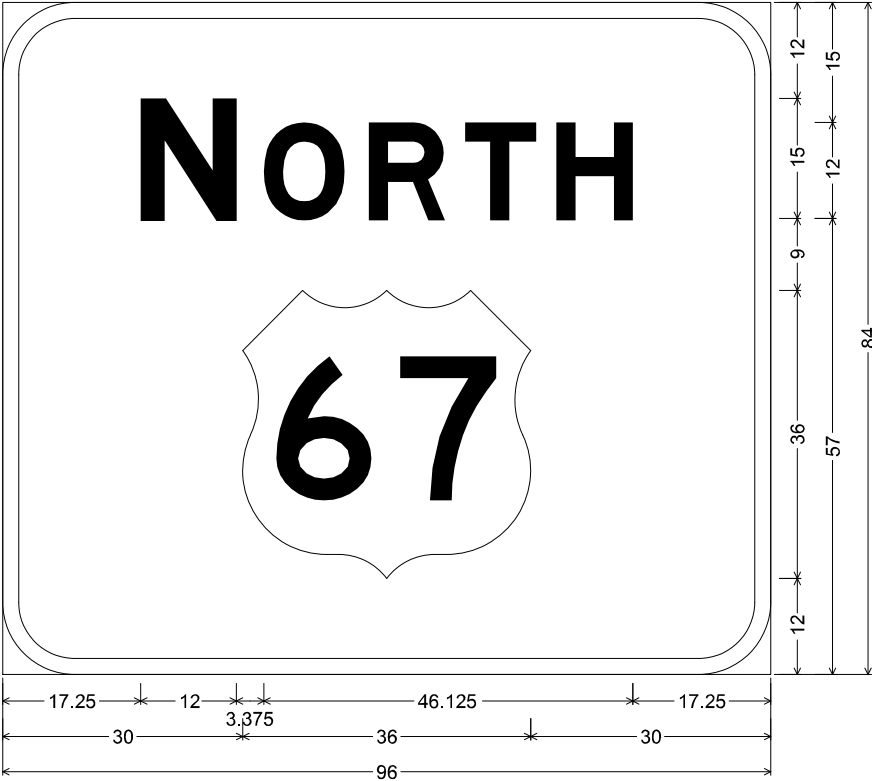
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

SIGN DETAILS



SIGN NO.	3B
STATION	91+78
ROADWAY	EB RTE. D



E1-1 ST-STRUCTURAL;
 9.000" Radius, 2.000" Border, White on, Green;
 "NORTH", E Mod;

Table of letter and object lefts

N	O	R	T	H
17.250	32.625	45.750	57.750	69.250
67				
30.000				

NOTE: SIGN #6 TO BE INSTALLED ON J6S3557 (FUTURE) - NOT ON THIS PROJECT. FOR INFORMATIONAL PURPOSES ONLY.

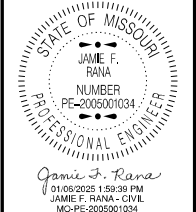
SIGN NO.	6a
STATION	
ROADWAY	NB US 67

E1-1 ST-STRUCTURAL;
 12.000" Radius, 2.000" Border, White on, Green;
 "SOUTH", E Mod; "Lindbergh", E Mod; "Blvd", E Mod;

STF-STRUCTURAL FLUORESCENT;
 12.000" Radius, 2.000" Border, Black on, Yellow;
 "EXIT", E Mod; Arrow 160 - 35.000" 45"; "ONLY", E Mod;

Table of letter and object lefts

67	S	O	U	T	H			
22.125	73.125	87.875	100.875	113.000	124.375			
L	I	n	d	b	e	r	g	h
16.625	33.250	42.375	57.500	73.875	87.500	102.750	112.875	129.250
B	I	v	d					
52.375	70.875	78.375	93.375					
E	X	I	T	↗	O	N	L	Y
13.000	24.375	37.250	42.125	60.000	98.000	111.125	123.750	133.500



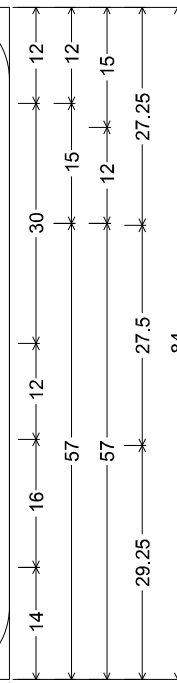
DATE PREPARED
12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	81
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3626	
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)

SIGN DETAILS



NOTE: SIGN #6 TO BE INSTALLED ON J6S3557 (FUTURE) - NOT ON THIS PROJECT. FOR INFORMATIONAL PURPOSES ONLY.

SIGN NO.	6b
STATION	
ROADWAY	NB US 67

E1-1 ST-STRUCTURAL;
 9.000" Radius, 2.000" Border, White on, Green;
 Rounded Rectangle 1.875" Radius;
 "EAST", E Mod; "Page Ave", E Mod; Arrow 160 - 35.000" 45';
 Table of letter and object lefts

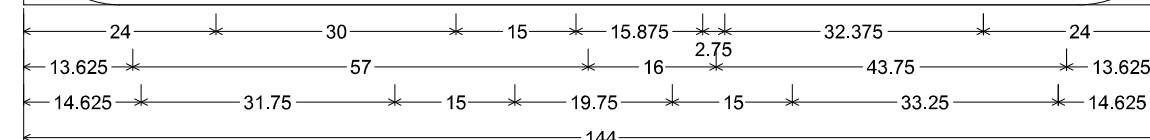
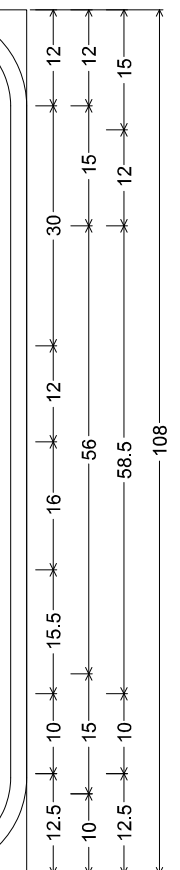
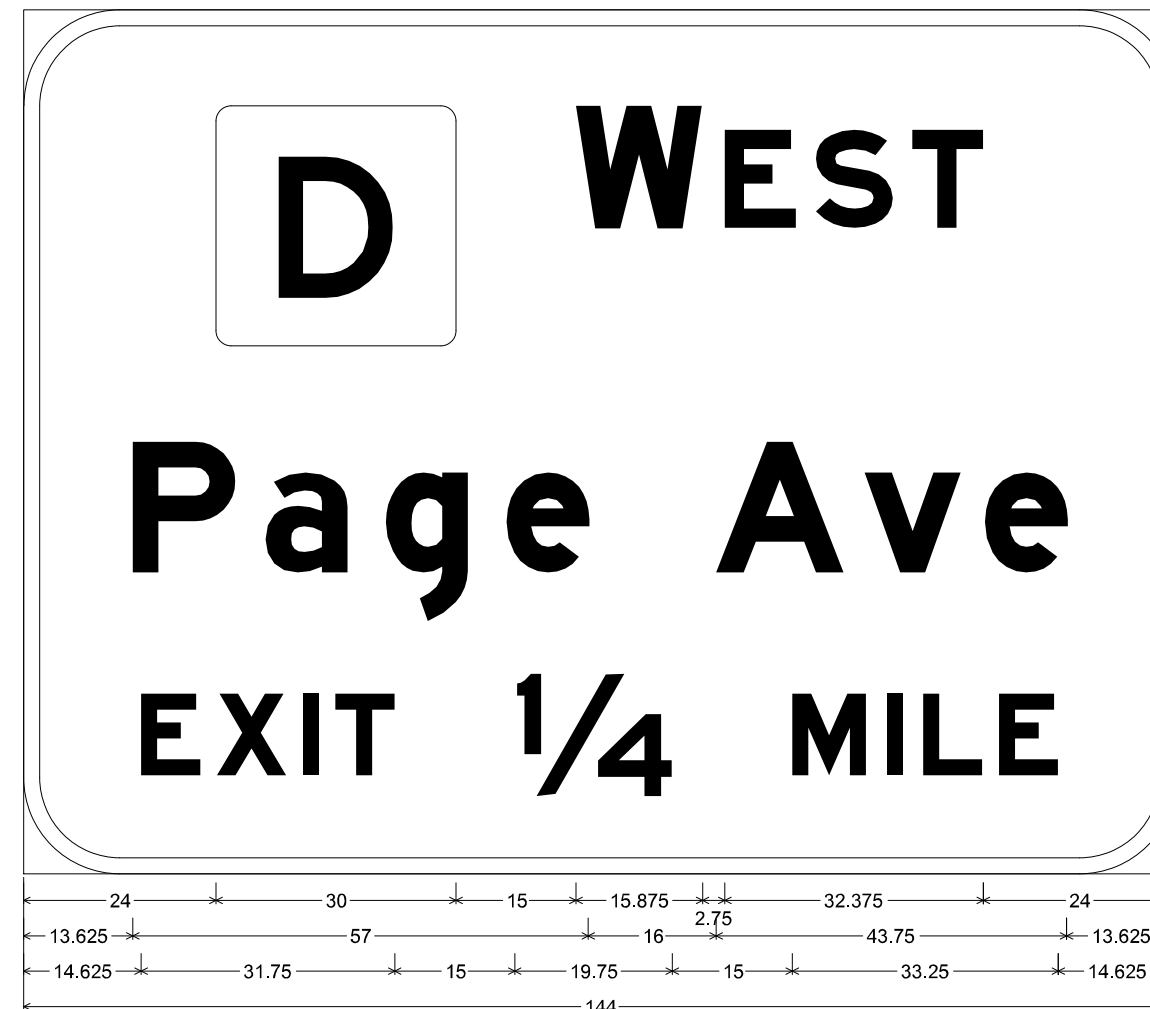
□	E	A	S	T	↗	
24.375	69.375	82.375	96.875	108.875	139.750	
P	a	g	e	A	v	e
12.750	29.375	44.375	59.500	85.625	104.250	119.250

SIGN NO.	6c
STATION	
ROADWAY	NB US 67

NOTE: SIGN #6 TO BE INSTALLED ON J6S3557 (FUTURE) - NOT ON THIS PROJECT. FOR INFORMATIONAL PURPOSES ONLY.

E1-1 ST-STRUCTURAL;
 12.000" Radius, 2.000" Border, White on, Green;
 Rounded Rectangle 1.875" Radius;
 "WEST", E Mod; "Page Ave", E Mod; "EXIT", E Mod; "1/4", E Mod; "MILE", E Mod;
 Table of letter and object lefts

□	W	E	S	T				
24.000	69.000	87.625	99.000	111.000				
P	a	g	e	A	v	e		
13.625	30.250	45.250	60.375	86.625	105.125	120.125		
E	X	I	T	1/4	M	I	L	E
14.625	24.125	34.875	39.000	61.375	96.125	107.875	112.375	121.875



JAMIE F. RANA
 NUMBER PE-2005001034
 PROFESSIONAL ENGINEER

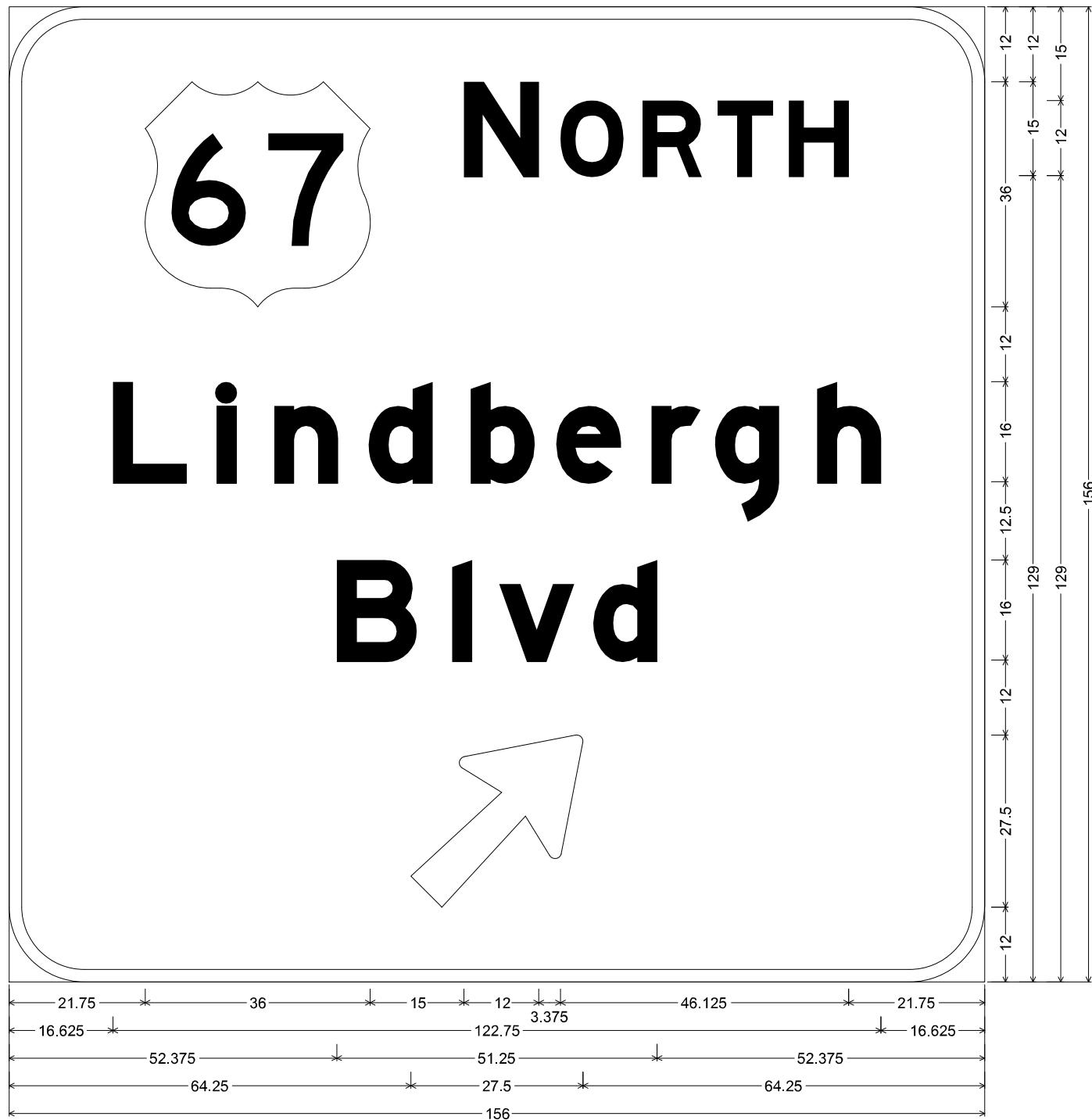
Jamie F. Rana
 01/06/2025 1:59:55 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED		12/20/2024	
ROUTE	D	STATE	MO
DISTRICT	SL	SHEET NO.	82
COUNTY			
ST. LOUIS			
JOB NO.			
J6S3626			
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)

SIGN DETAILS

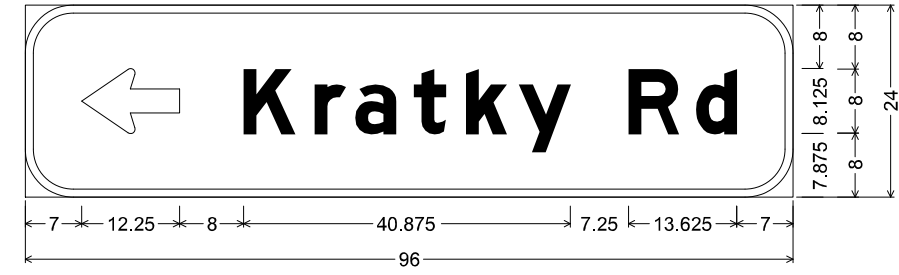


E1-1 ST-STRUCTURAL;
 12.000" Radius, 2.000" Border, White on, Green;
 "NORTH", E Mod; "Lindbergh", E Mod; "Blvd", E Mod; Arrow 160 - 35.000" 45";
 Table of letter and object lefts

67	N	O	R	T	H			
21.750	72.750	88.125	101.250	113.250	124.750			
L	i	n	d	b	e	r	g	h
16.625	33.250	42.375	57.500	73.875	87.500	102.750	112.875	129.250
B	l	v	d					
52.375	70.875	78.375	93.375					
↖								
64.250								

SIGN NO.	8
STATION	104+40
ROADWAY	EB RTE. D

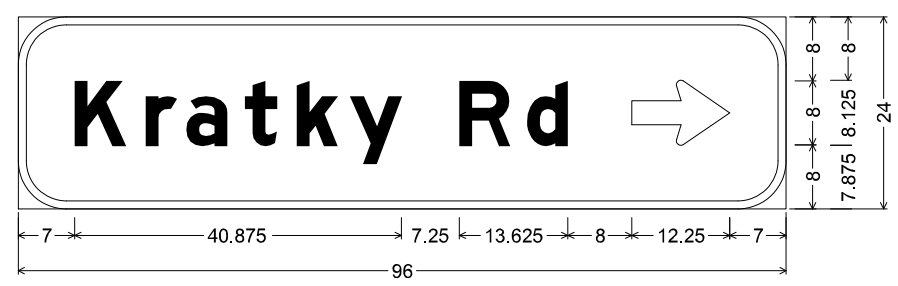
SIGN NO.	9
STATION	111+10
ROADWAY	EB RTE. D



D1-1 ST-STRUCTURAL;
 6.000" Radius, 1.000" Border, White on, Green;
 Standard Arrow Custom 12.250" X 8.125" 180"; "Kratky Rd", E Mod;
 Table of letter and object lefts

↖	K	r	a	t	k	y	R	d
7.000	27.250	36.250	41.250	48.625	55.125	61.750	75.375	83.875

SIGN NO.	10
STATION	MATCH EXIST.
ROADWAY	WB RTE. D



D1-1 ST-STRUCTURAL;
 6.000" Radius, 1.000" Border, White on, Green;
 "Kratky Rd", E Mod; Standard Arrow Custom 12.250" X 8.125" 0";
 Table of letter and object lefts

K	r	a	t	k	y	R	d	↗
7.000	16.000	21.000	28.375	34.875	41.500	55.125	63.625	76.750

STATE OF MISSOURI
 JAMES F. RANA
 PE-200501034
 PROFESSIONAL ENGINEER

DATE PREPARED
12/20/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	83

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

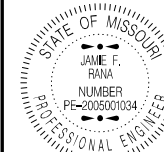
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

SIGN DETAILS



Jamie F. Rana
01/09/2025 2:00:37 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
12/20/2024

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 84

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

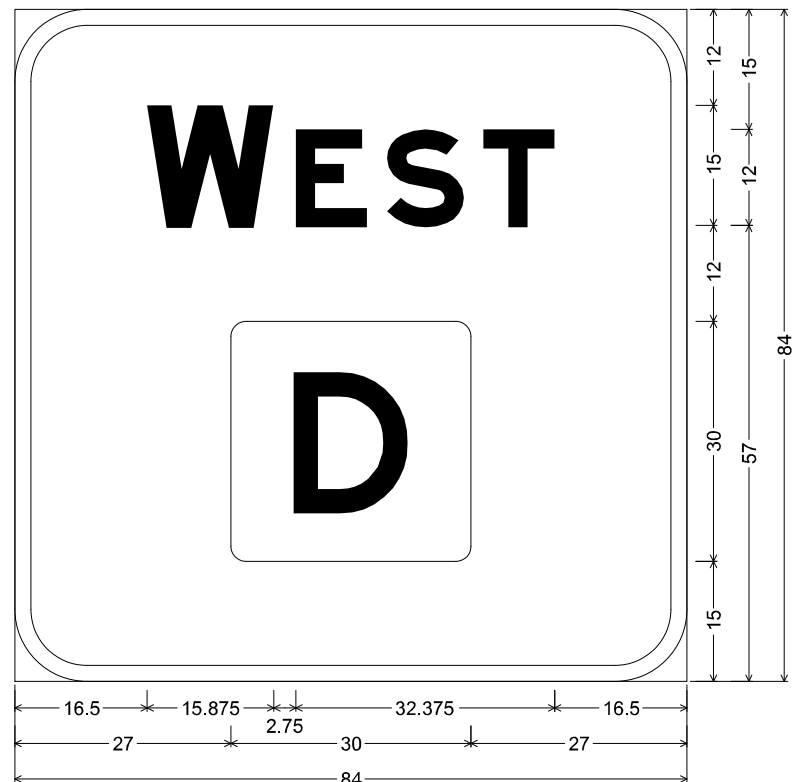
BRIDGE NO.

DATE	DESCRIPTION

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



SIGN DETAILS

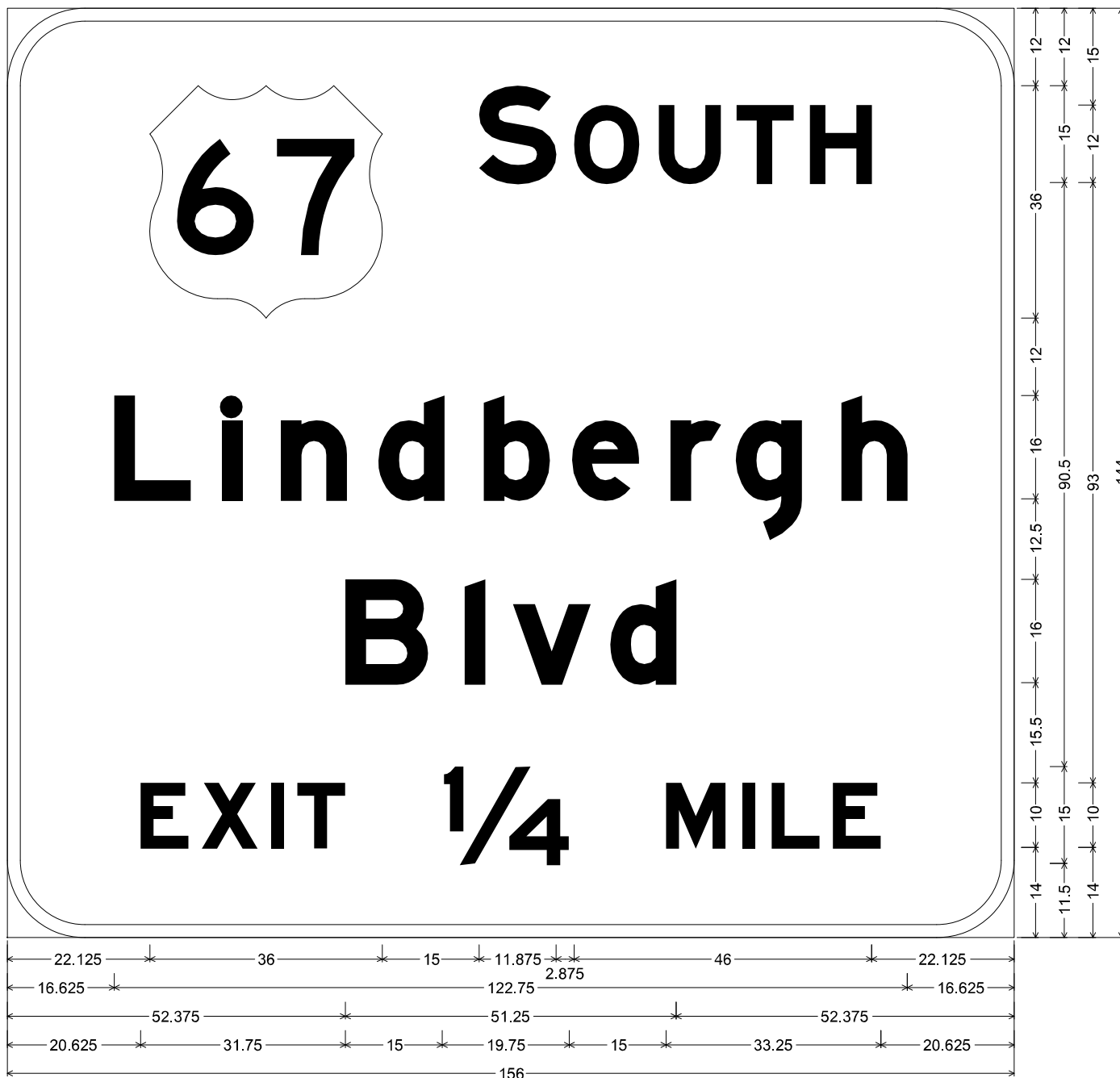


E1-1 ST-STRUCTURAL;
9.000" Radius, 2.000" Border, White on, Green;
"WEST", E Mod; Rounded Rectangle 1.875" Radius;
Table of letter and object lefts

W	E	S	T
16.500	35.125	46.500	58.500

27.000

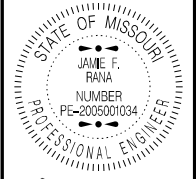
SIGN NO.	13a
STATION	106+70
ROADWAY	WB RTE. D



E1-1 ST-STRUCTURAL;
12.000" Radius, 2.000" Border, White on, Green;
"SOUTH", E Mod; "Lindbergh", E Mod; "Blvd", E Mod; "EXIT", E Mod; "1/4", E Mod; "MILE", E Mod;
Table of letter and object lefts

67	S	O	U	T	H			
22.125	73.125	87.875	100.875	113.000	124.375			
L	I	n	d	b	e	r	g	h
16.625	33.250	42.375	57.500	73.875	87.500	102.750	112.875	129.250
B	I	v	d					
52.375	70.875	78.375	93.375					
E	X	I	T	1/4	M	I	L	E
20.625	30.125	40.875	45.000	67.375	102.125	113.875	118.375	127.875

SIGN NO.	13b
STATION	106+70
ROADWAY	WB RTE. D



JAMIE F. RANA
NUMBER
PE-200501034
PROFESSIONAL ENGINEER

DATE PREPARED
12/20/2024

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 85

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

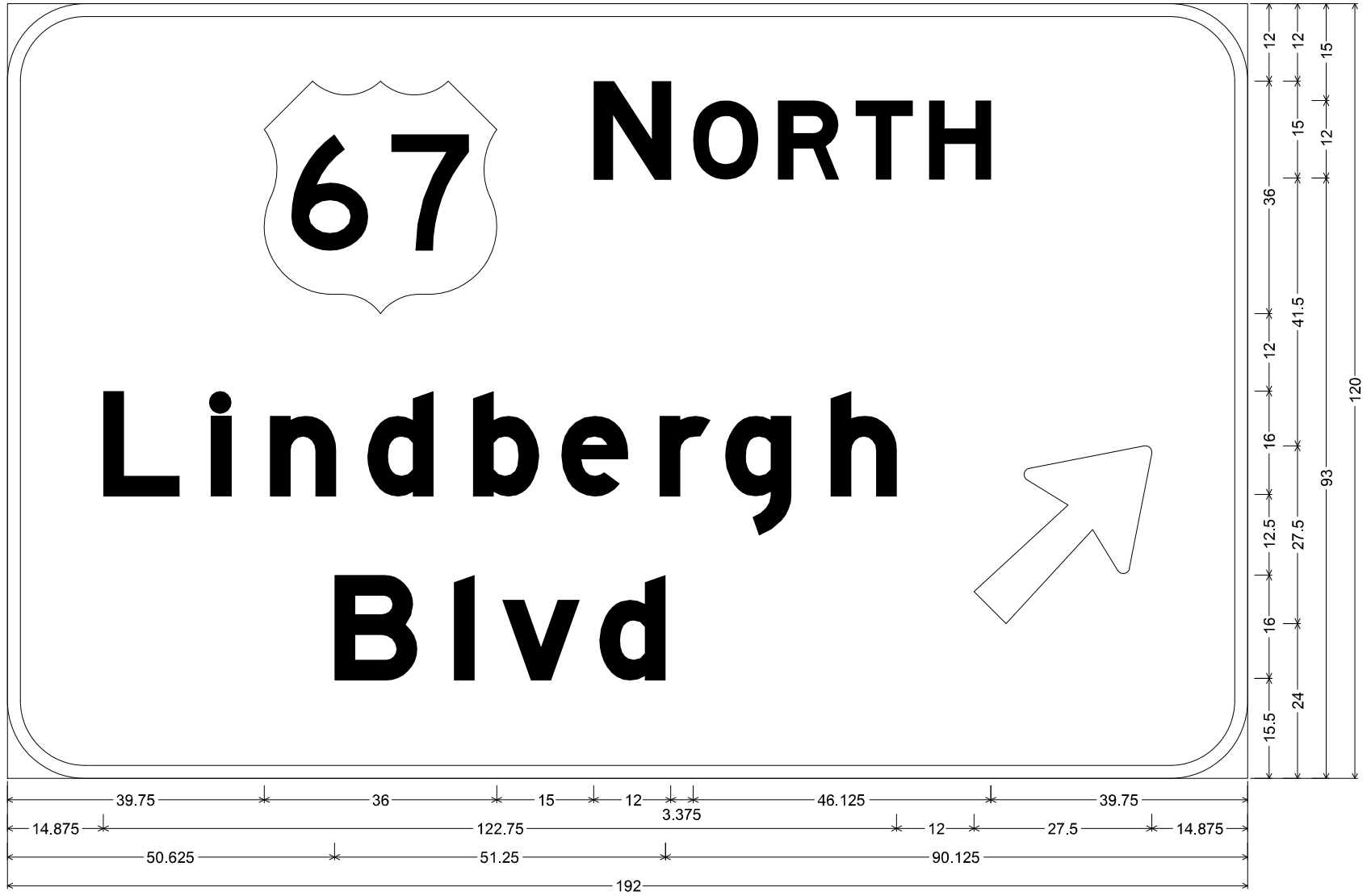
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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



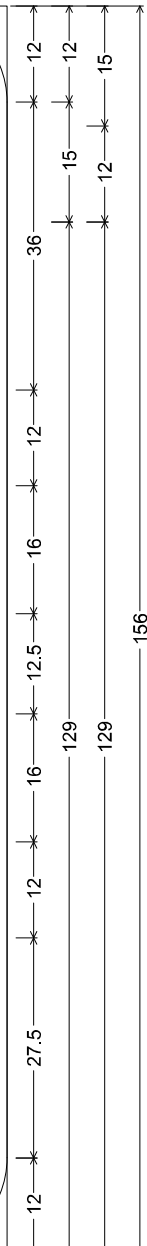
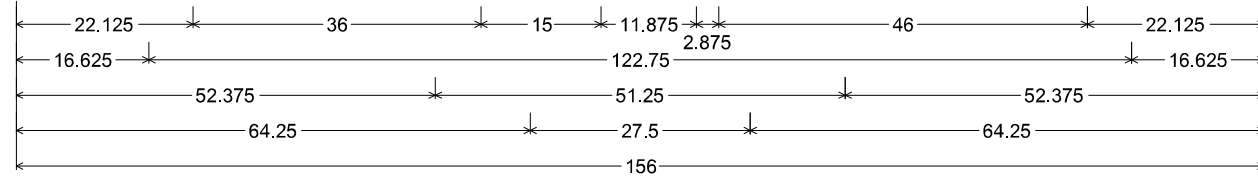
SIGN NO.	13C
STATION	106+70
ROADWAY	WB RTE, D

E1-1 ST-STRUCTURAL;
12.000" Radius, 2.000" Border, White on, Green;
"NORTH", E Mod; "Lindbergh", E Mod; "Blvd", E Mod; Arrow 160 - 35.000" 45';

Table of letter and object lefts

①	N	O	R	T	H				
39.750	90.750	106.125	119.250	131.250	142.750				
L	I	n	d	b	e	r	g	h	↗
14.875	31.500	40.625	55.750	72.125	85.750	101.000	111.125	127.500	149.625
B	I	v	d						
50.625	69.125	76.625	91.625						

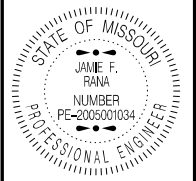
SIGN DETAILS



SIGN NO.	17
STATION	96+47
ROADWAY	WB RTE. D

E1-1 ST-STRUCTURAL;
 12.000" Radius, 2.000" Border, White on, Green;
 "SOUTH", E Mod; "Lindbergh", E Mod; "Blvd", E Mod; Arrow 160 - 35.000" 45";
 Table of letter and object lefts

67	S	O	U	T	H			
22.125	73.125	87.875	100.875	113.000	124.375			
L	l	n	d	b	e	r	g	h
16.625	33.250	42.375	57.500	73.875	87.500	102.750	112.875	129.250
B	l	v	d					
52.375	70.875	78.375	93.375					
↗								
64.250								



Jamie F. Rana
 01/06/2025 2:01:34 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2009001034

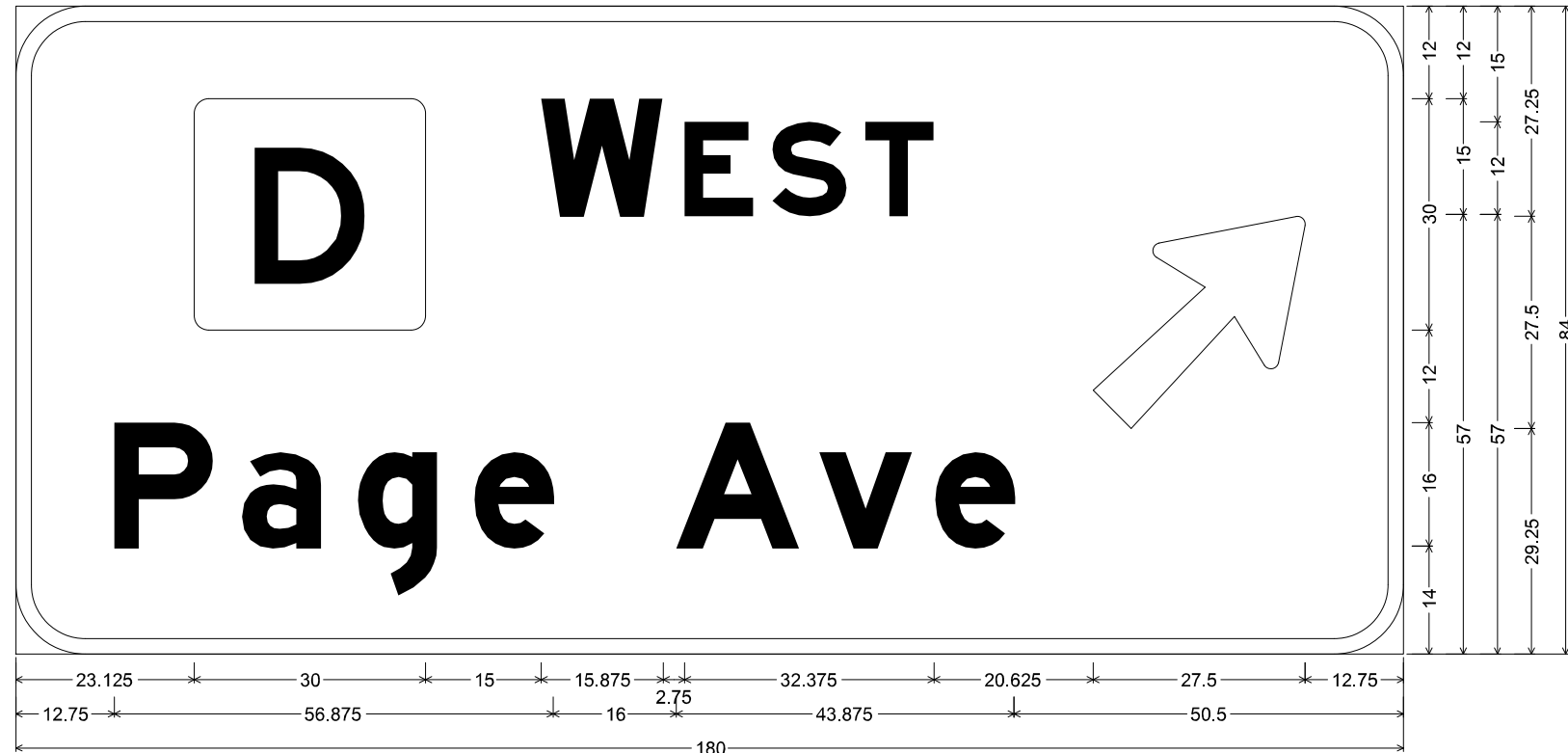
DATE PREPARED		12/20/2024	
ROUTE	D	STATE	MO
DISTRICT	SL	SHEET NO.	86
COUNTY			
ST. LOUIS			
JOB NO.			
J6S3626			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

SIGN DETAILS

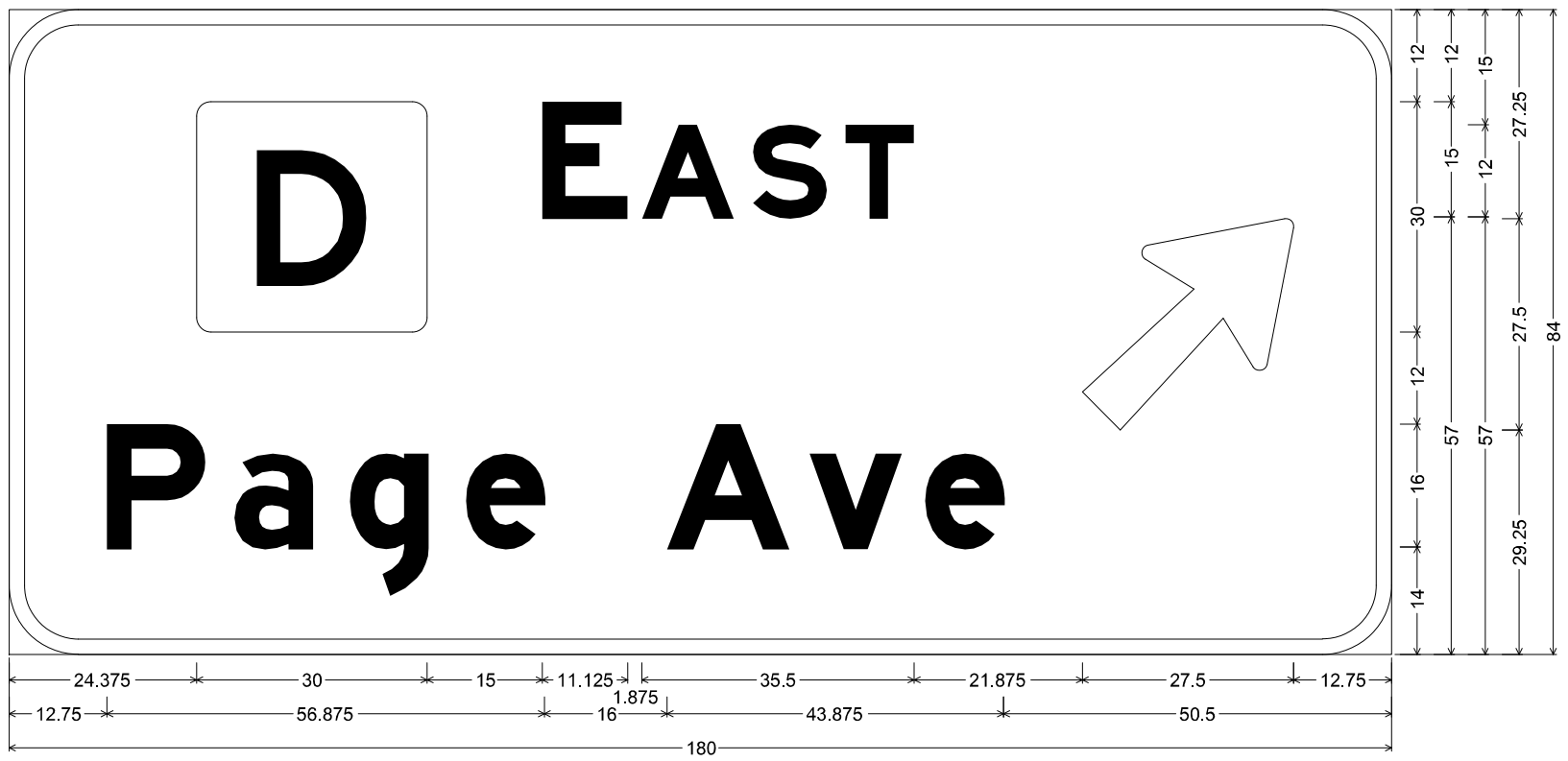


E1-1 ST-STRUCTURAL;
 9.000" Radius, 2.000" Border, White on, Green;
 Rounded Rectangle 1.875" Radius;
 "WEST", E Mod; "Page Ave", E Mod; Arrow 160 - 35.000" 45";
 Table of letter and object lefts

□	W	E	S	T	↗	
23.125	68.125	86.750	98.125	110.125	139.750	
P	a	g	e	A	v	e
12.750	29.375	44.375	59.500	85.625	104.250	119.250

SIGN NO.	40
STATION	BRIDGE
ROADWAY	NB US 67

BRIDGE MOUNT OVER NB US 67



E1-1 ST-STRUCTURAL;
 9.000" Radius, 2.000" Border, White on, Green;
 Rounded Rectangle 1.875" Radius;
 "EAST", E Mod; "Page Ave", E Mod; Arrow 160 - 35.000" 45";
 Table of letter and object lefts

□	E	A	S	T	↗	
24.375	69.375	82.375	96.875	108.875	139.750	
P	a	g	e	A	v	e
12.750	29.375	44.375	59.500	85.625	104.250	119.250

SIGN NO.	41
STATION	BRIDGE
ROADWAY	NB US 67

BRIDGE MOUNT OVER SB US 67

JAMIE F. RANA
 NUMBER PE-2005001034
 PROFESSIONAL ENGINEER

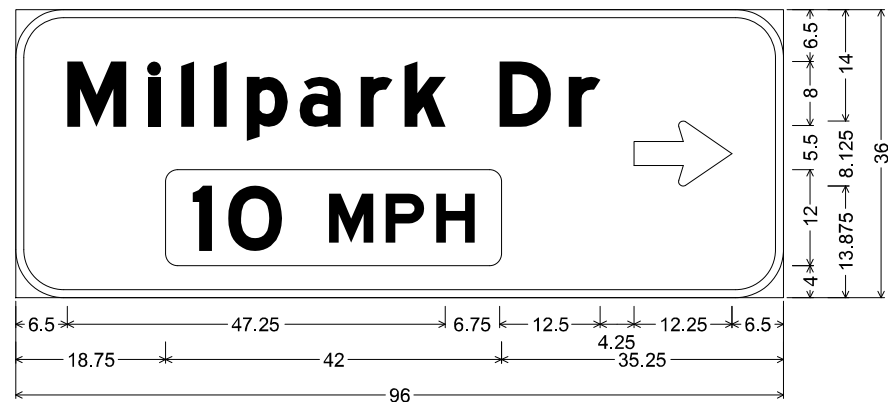
Jamie F. Rana
 01/06/2025 2:01:57 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED 12/20/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 87
COUNTY ST. LOUIS	
JOB NO. J6S3626	
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)

SIGN DETAILS



SIGN NO.	28
STATION	89+72
ROADWAY	WB RTE. D

D1-1 ST-STRUCTURAL;

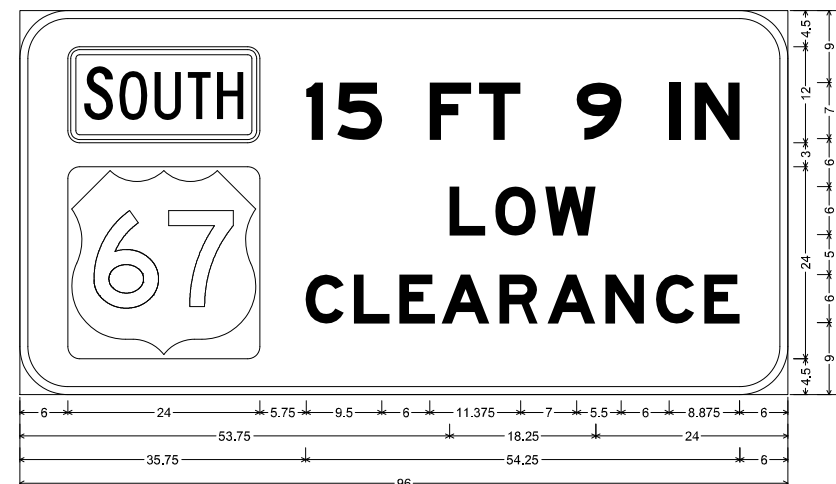
6.000" Radius, 1.000" Border, White on, Green;

"Millpark Dr", E Mod 85% spacing; Rounded Rectangle 1.500" Radius Yellow;

Standard Arrow Custom 12.250" X 8.125" O"; " ", E Mod;

Table of letter and object lefts

M	I	I	I	P	A	R	K	D	R
6.500	16.625	20.625	24.750	28.875	35.500	43.125	48.625	60.500	69.125



SPECIAL STF-STRUCTURAL FLUORESCENT;

6.000" Radius, 1.000" Border, Black on, Yellow;

"15 FT 9 IN", E Mod; "LOW", E Mod; "CLEARANCE", E Mod;

Table of letter and object lefts

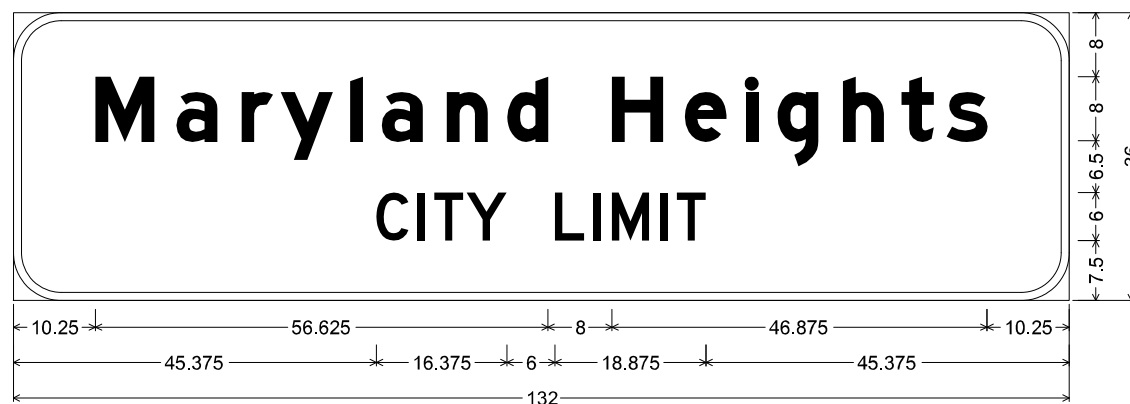
S	I	S	F	T	9	I	N
6.000	35.750	39.625	51.250	57.375	69.625	81.125	84.375

L	O	W	
6.000	53.750	59.375	65.625

C	L	E	A	R	A	N	C	E
35.750	41.750	47.500	52.750	60.000	66.000	73.250	79.500	85.500

SIGN NO.	44 & 45
STATION	SEE PLANS
ROADWAY	SEE PLANS

SIGN NO.	33
STATION	95+16
ROADWAY	WB RTE. D



I4-1 ST-STRUCTURAL;

6.000" Radius, 1.000" Border, White on, Green;

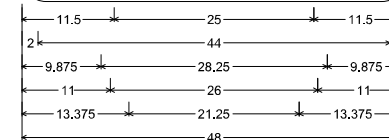
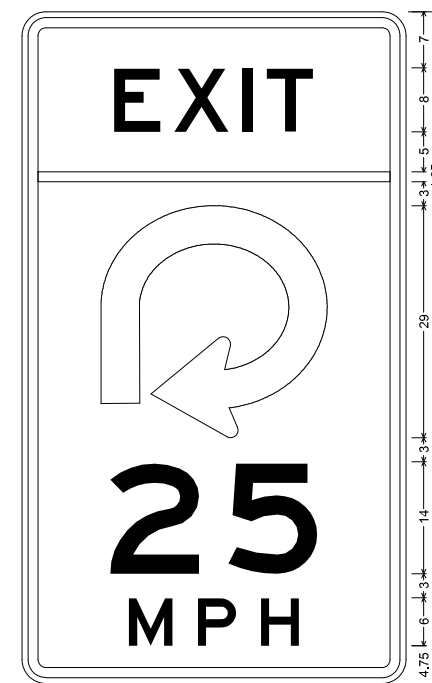
"Maryland Heights", E Mod; "CITY LIMIT", D;

Table of letter and object lefts

M	a	r	y	l	a	n	d
10.250	20.375	28.500	33.375	42.125	46.125	54.250	61.750

H	e	l	g	h	t	s
74.875	84.000	91.625	95.500	103.750	111.000	116.625

C	I	T	Y	L	I	M	I	T
45.375	50.500	52.625	56.625	67.750	72.500	74.875	80.875	83.000



W13-6 (Loop Right) SHF-FLAT SHEET FLUORESCENT;

3.000" Radius, 1.250" Border, 0.750" Indent, Black on, Yellow;

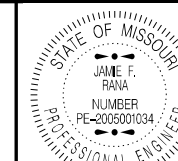
"EXIT", E; "25", E; "MPH", E 200% spacing;

Table of letter and object lefts

E	X	I	T
11.500	19.000	27.625	30.625

2	S	
11.000	25.750	
M	P	H
13.375	22.000	29.875

SIGN NO.	18, 19, 26, 27
STATION	SEE PLANS
ROADWAY	SEE PLANS



Jamie F. Rana
01/06/2025 2:02:15 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED

12/30/2024

ROUTE STATE

D MO

DISTRICT SHEET NO.

SL 88

COUNTY

ST. LOUIS

JOB NO.

J6S3626

CONTRACT ID.

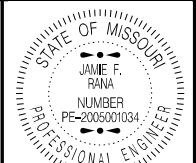
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

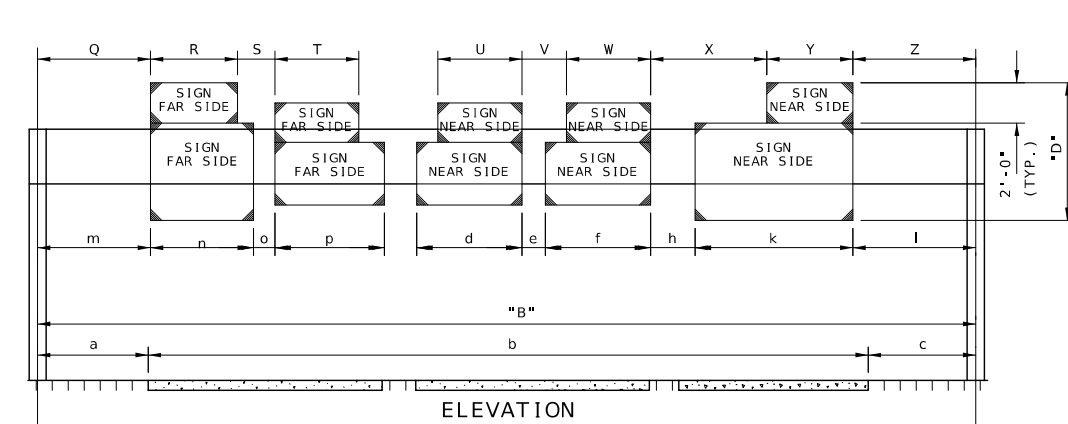
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGN DETAILS

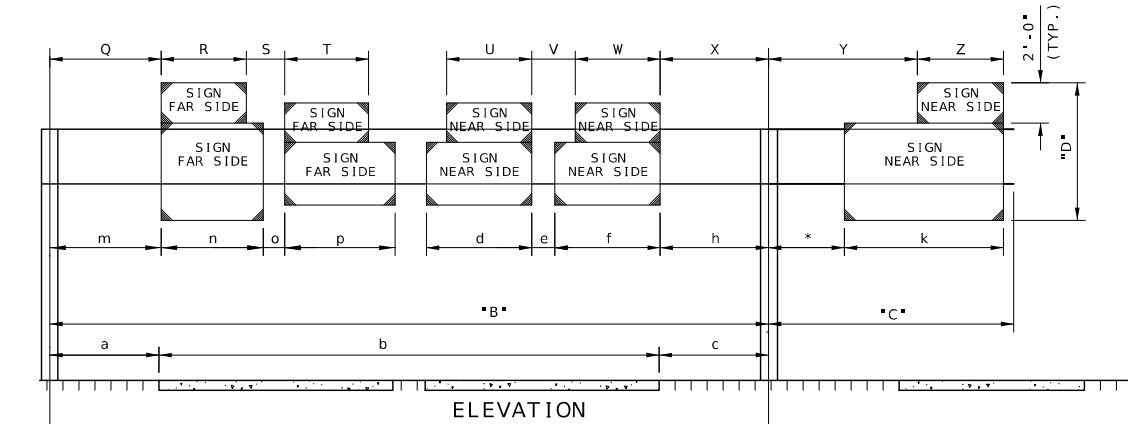


Jamie F. Rana
01/09/2025 2:02:33 PM
JAMIE F. RANA - CIVIL
MO-PE-200501034

DATE PREPARED	
12/20/2024	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	89
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



ELEVATION
PLAN
DIMENSIONS
TYPE 'B' SIGN BRIDGE



ELEVATION
PLAN
DIMENSIONS
TYPE 'BC' SIGN BRIDGE

NOTE: ABOVE MINIMUMS ARE RECOMMENDED DIMENSIONS.

SIGN BRIDGE DIMENSIONS

SIGN NO.	STATION NUMBER	TRUSS DESCRIPTION		ROADWAY DESCRIPTION		*D*	SIGN SPACING												COLUMN DATA			CONCRETE FOOTINGS (CU. YD.)								
		Type	"B"	"C"	CHORD		NEAR SIDE			FAR SIDE			COLUMN 1	COLUMN 2	H	TYPE														
		ALUM.	STEEL	a	b		c	d	Ht.	e	f	Ht.	h	k			Ht.	l	m	n	Ht.		o	p	Ht.					
13	106+70	B	116	0	05 1/2 x 1 1/2	6 x 6 x 1/2	11.3	93.6	11.1	12	13	12	12	7	7				93.3	9	16	10	4.5			20'-4"	2	19'-4"	2	26.4

* MINIMUM = 6'-0" WHEN ALUMINUM IS USED.

SIGN BRIDGE DIMENSIONS

SIGN NO.	STATION NUMBER	TRUSS DESCRIPTION		ROADWAY DESCRIPTION		*D*	SIGN SPACING																							
		Type	"B"	"C"	CHORD		NEAR SIDE			FAR SIDE			Q	R	S	T														
		ALUM.	STEEL	a	b		c	U	V	W	X	Y	Z																	

OVERHEAD SIGN TRUSSES
STRUCTURAL STEEL OR ALUMINUM

DATA SHEET
(SEE STANDARD 903.10 OR 903.60)

GENERAL NOTES

- DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 1985 AND LATEST INTERIM.
- BASIC ASSUMPTIONS: WIND VELOCITY = 70 mph, WIND PRESSURE ON SIGN AREA = 27 psf, ICE LOAD = 3 psf.
- STRUCTURAL ALUMINUM STRESS = 10,000 psi.
- STRUCTURAL CARBON STEEL (ASTM A709 GRADE 36) fs = 20,000 psi.
- REINFORCING STEEL (GRADE 40) fs = 20,000 psi.
- CLASS B CONCRETE fc = 1,200 psi.
- ALLOWABLE SOIL PRESSURE = 2,750 psf.
- ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES ARE INCREASED 40%.
- MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE = 17'-6".
- MINIMUM CLEARANCE TO REINFORCING SHALL BE 2", UNLESS OTHERWISE SHOWN.
- TRUSS SHALL BE ALL WELDED CONSTRUCTION. ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.
- QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE A.W.S. D1.2 BRIDGE WELDING CODE AS AMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION.

ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.S. D1.2 STRUCTURAL WELDING CODE - ALUMINUM, EXCEPT AS AMENDED BY SECTION 903 OF THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL ALUMINUM FILLET WELDS SHALL BE 3/16" UNLESS OTHERWISE SHOWN.

COATING: ALL COLUMNS SHALL BE GALVANIZED AS PER AASHTO M 111. ALL STRUCTURAL STEEL (EXCEPT THE COLUMNS) SHALL BE CLEANED AND COATED WITH SYSTEM G IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTIONS 712.12 AND 903.3.4. COLOR OF THE FINISHED COAT SHALL BE GRAY.

PAYMENT FOR GALVANIZING, CLEANING AND COATING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SIGN TRUSS. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF COATING PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.

DATE	DESCRIPTION

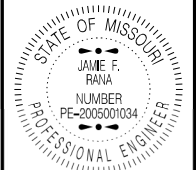
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING PLANS
TRUSS INFORMATION



01/06/2025 2:32:55 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034



Jamie F. Rana
01/06/2025 2:32:55 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
11/25/2024

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 90

COUNTY
ST. LOUIS

JOB NO.
J6S3626


CONTRACT ID.

PROJECT NO.

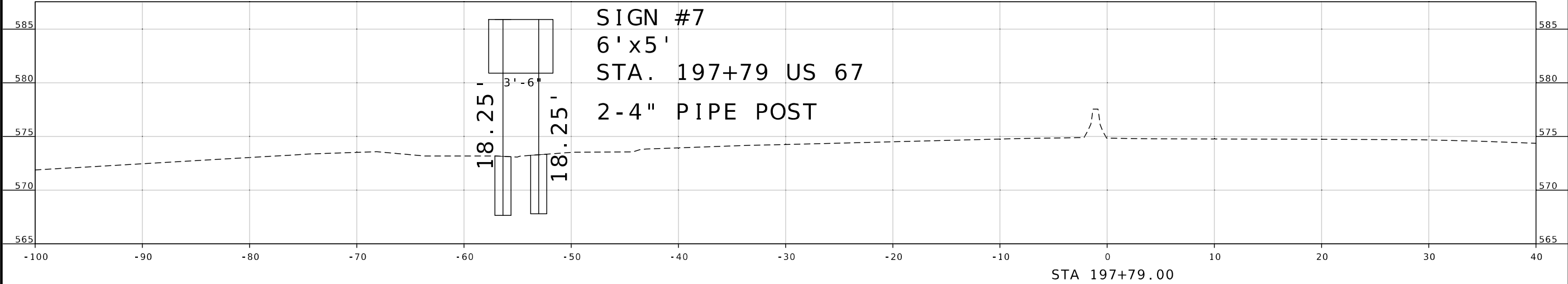
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



SIGN SECTIONS



DATE PREPARED
11/25/2024

ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 91

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

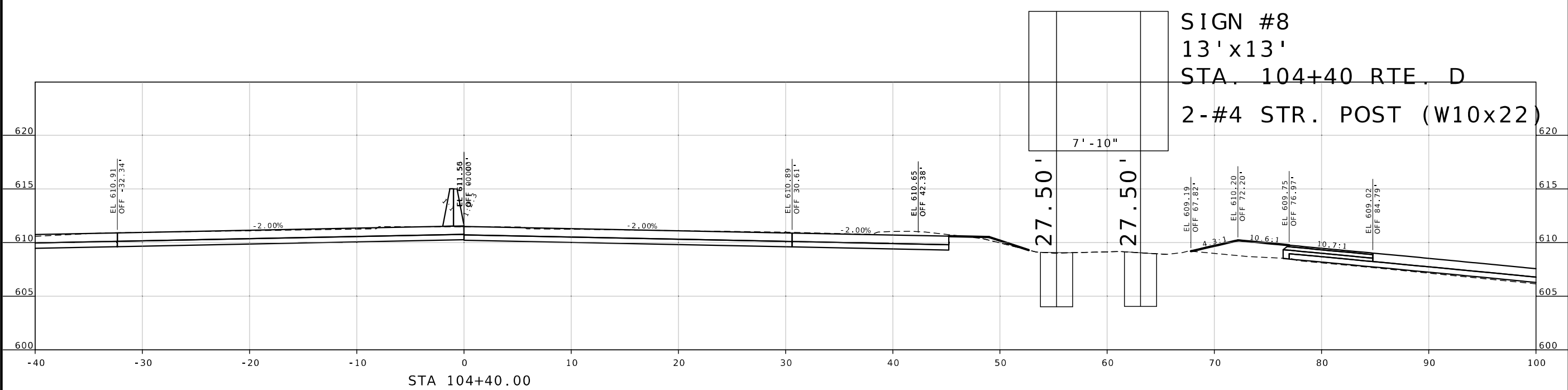
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

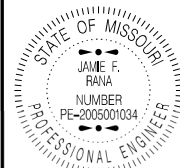
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



SIGN SECTIONS



Jamie F. Rana
11/16/2025 2:33:38 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
11/25/2024

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 92

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

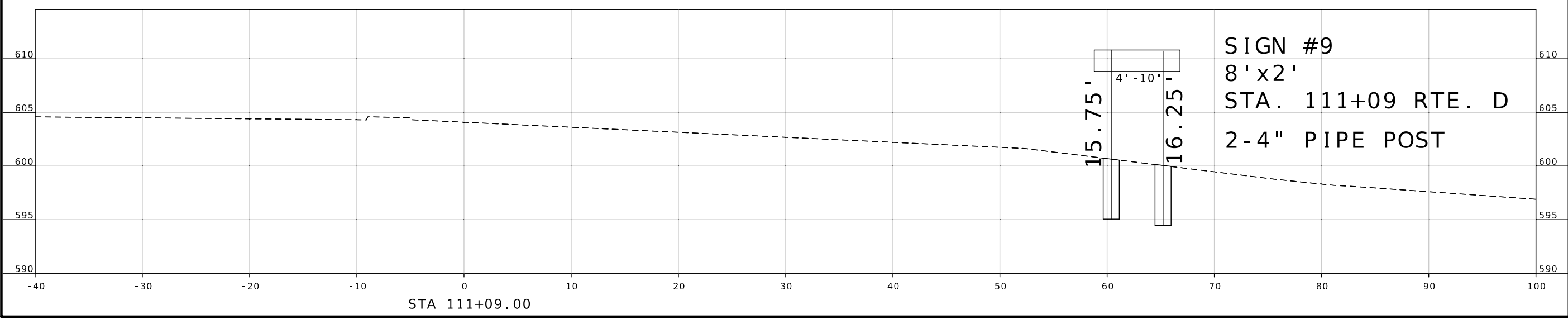
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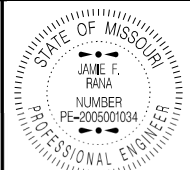
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



SIGN SECTIONS

NOTE: SIGN #10 SAME SIGN AS #9
8'x2'
STA. USE EXIST. +/- RTE. D
L OF POSTS = 16.75' & 18.5'





JAMIE F. RANA
11/06/2025 2:34:01 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
11/25/2024

ROUTE D STATE MO

DISTRICT SL SHEET NO. 93

COUNTY ST. LOUIS

JOB NO. J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

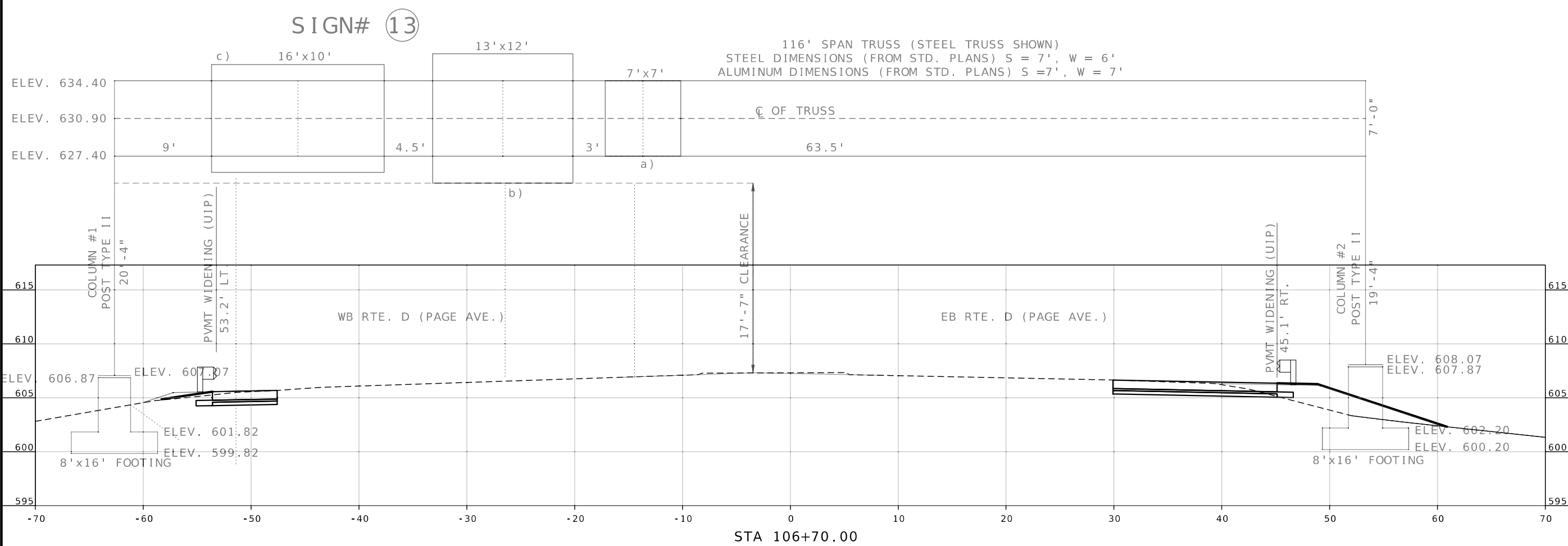
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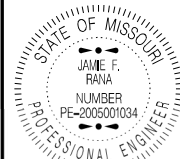
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

SIGN SECTIONS
TRUSS FOR SIGN #13





Jamie F. Rana
 01/06/2025 2:34:18 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 11/25/2024

ROUTE STATE
 D MO

DISTRICT SHEET NO.
 SL 94

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

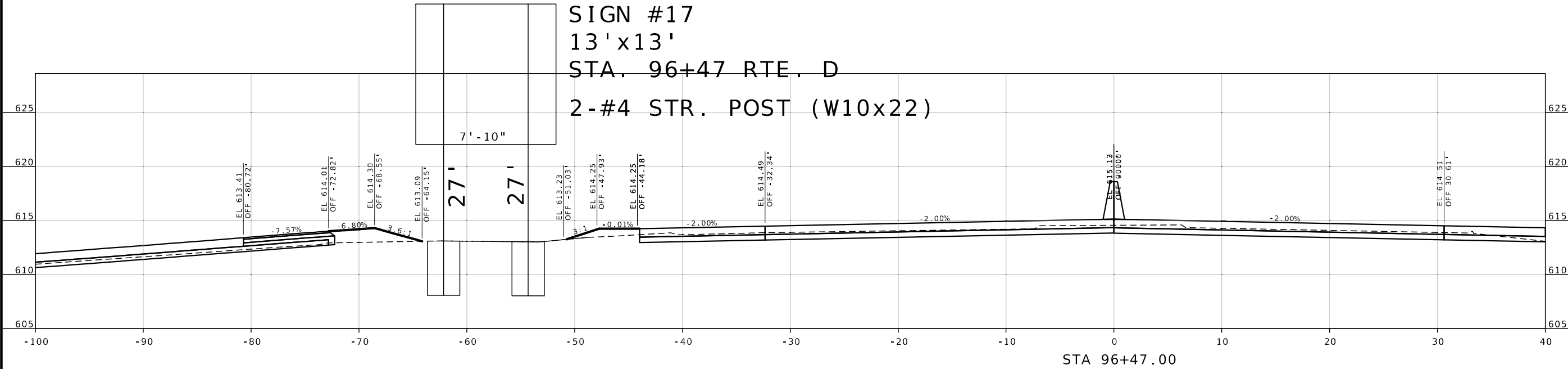
MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

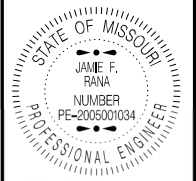
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)



SIGN SECTIONS

SIGN #17
 13'x13'
 STA. 96+47 RTE. D
 2-#4 STR. POST (W10x22)





Jamie F. Rana
01/06/2025 2:04:37 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
11/25/2024

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	95
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

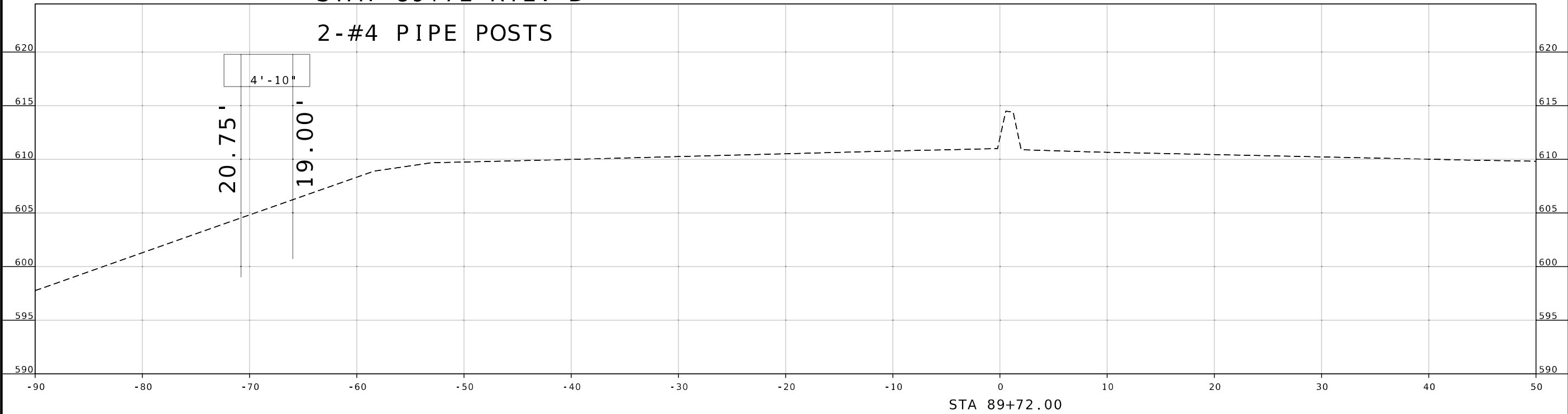
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

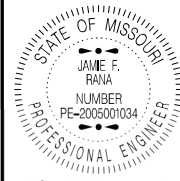
SIGN #28
8' x 3'
STA. 89+72 RTE. D

2-#4 PIPE POSTS



SIGN SECTIONS

STA 89+72.00



Jamie F. Rana
 01/06/2025 2:35:02 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 12/30/2024

ROUTE STATE
 D MO

DISTRICT SHEET NO.
 SL 96A

COUNTY
 ST. LOUIS

JOB NO.
 J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

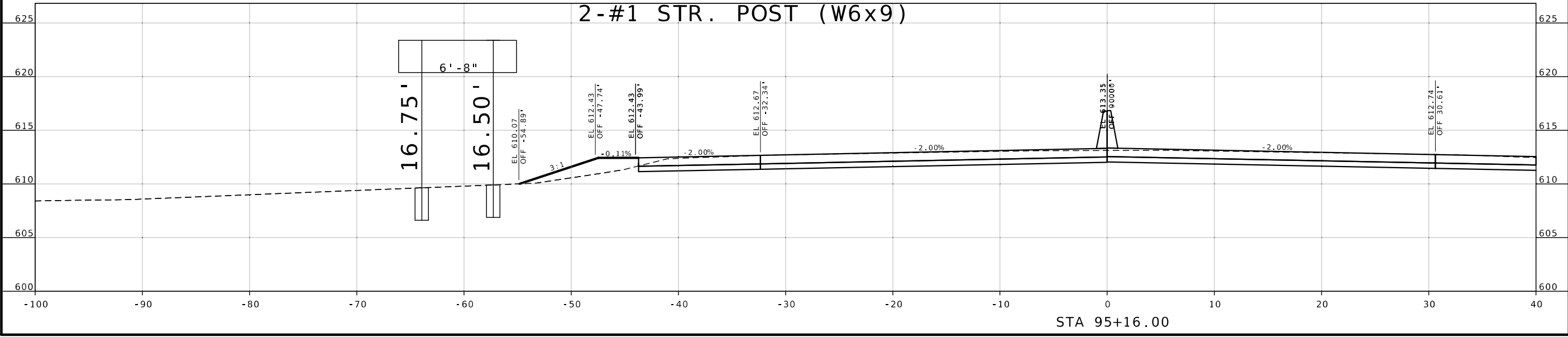
MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION



105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

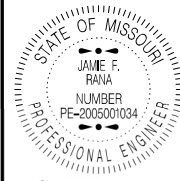
SIGN #33
 11'x3'
 STA. 95+16 RTE. D

2-#1 STR. POST (W6x9)



SIGN SECTIONS

STA 95+16.00



Jamie F. Rana
 01/06/2025 2:35:37 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 12/30/2024

ROUTE D STATE MO

DISTRICT SL SHEET NO. 96B

COUNTY ST. LOUIS

JOB NO. J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

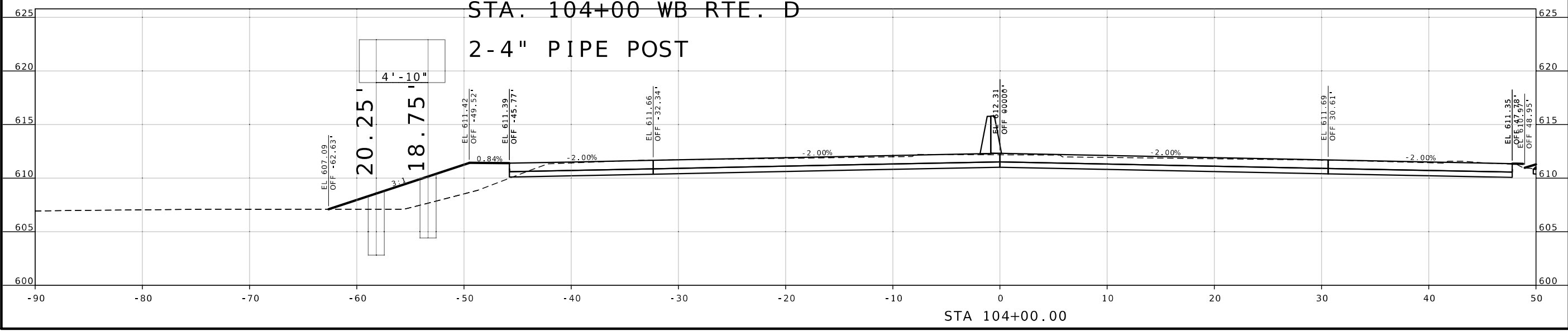
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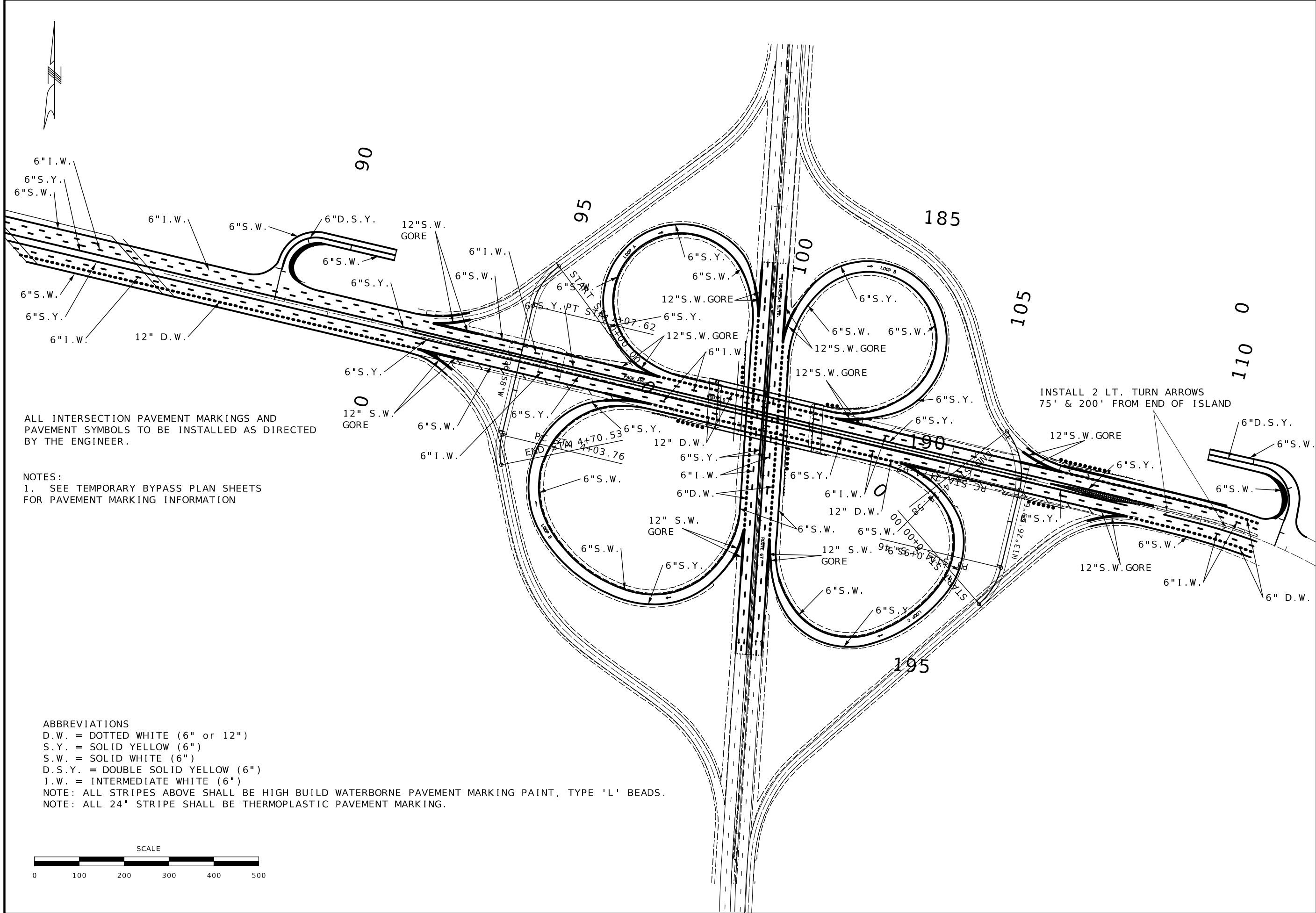
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)



SIGN SECTIONS

SIGN #45
 8' x 4'
 STA. 104+00 WB RTE. D
 2-4" PIPE POST

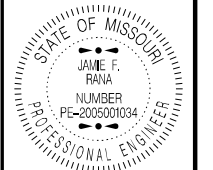
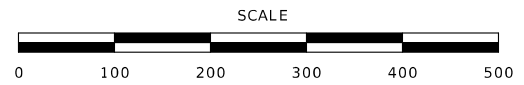




ALL INTERSECTION PAVEMENT MARKINGS AND PAVEMENT SYMBOLS TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

NOTES:
 1. SEE TEMPORARY BYPASS PLAN SHEETS FOR PAVEMENT MARKING INFORMATION

ABBREVIATIONS
 D.W. = DOTTED WHITE (6" or 12")
 S.Y. = SOLID YELLOW (6")
 S.W. = SOLID WHITE (6")
 D.S.Y. = DOUBLE SOLID YELLOW (6")
 I.W. = INTERMEDIATE WHITE (6")
 NOTE: ALL STRIPES ABOVE SHALL BE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE 'L' BEADS.
 NOTE: ALL 24" STRIPE SHALL BE THERMOPLASTIC PAVEMENT MARKING.



Jamie F. Rana
 01/05/2025 2:28:00 PM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034

DATE PREPARED
 12/20/2024

ROUTE STATE
 D MO
 DISTRICT SHEET NO.
 SL 97

COUNTY
 ST. LOUIS
 JOB NO.
 J6S3626
 CONTRACT ID.

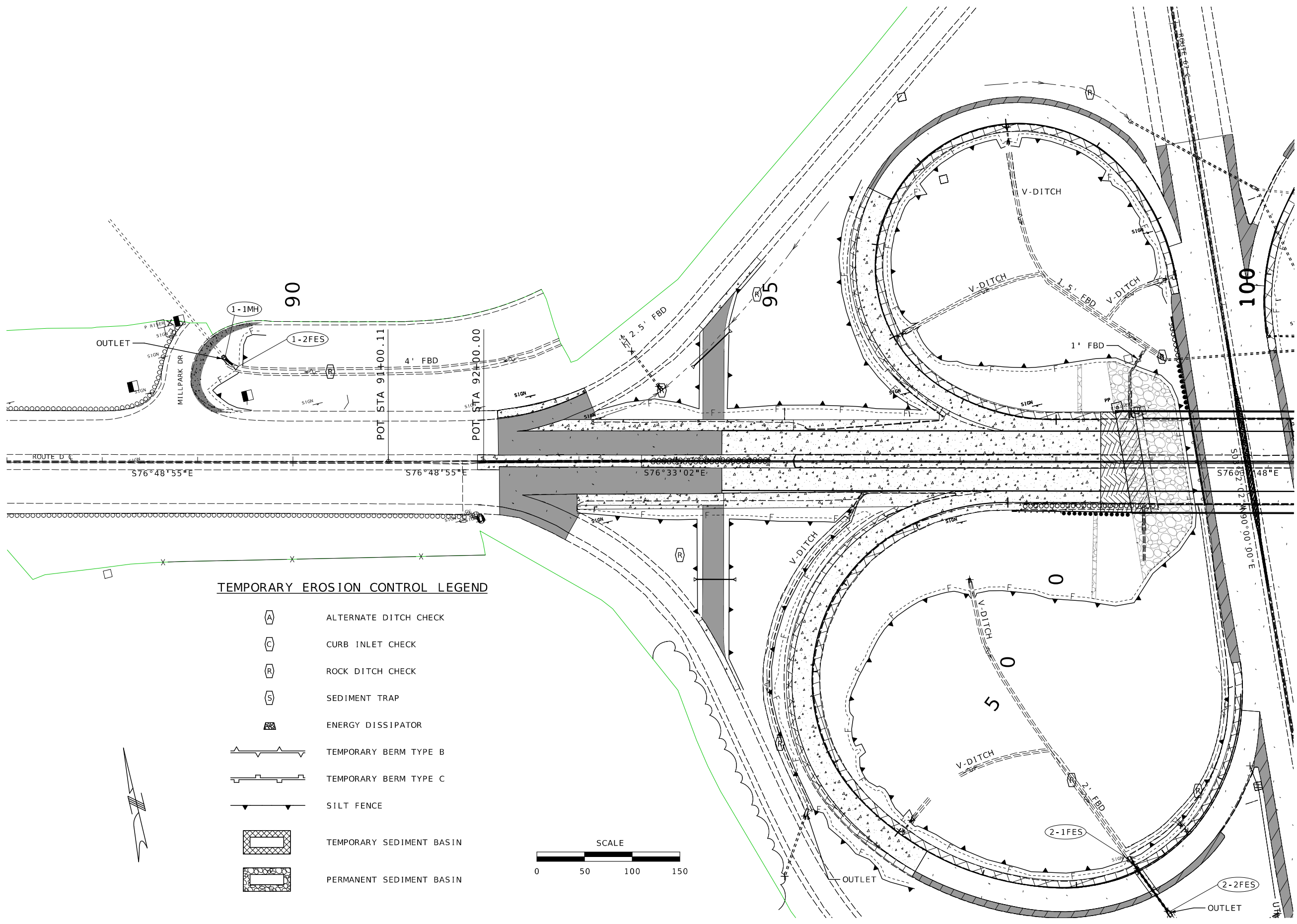
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

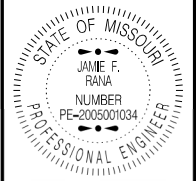
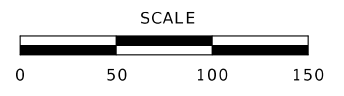
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING PLAN



TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- ROCK DITCH CHECK
- SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN



Jamie F. Rana
 1/22/2025 10:14:22 AM
 JAMIE F. RANA - CIVIL
 MO-PE-2005001034
 DATE PREPARED
 2/12/2025
 ROUTE D STATE MO
 DISTRICT SL SHEET NO. 98
 COUNTY ST. LOUIS
 JOB NO. J6S3626
 CONTRACT ID.

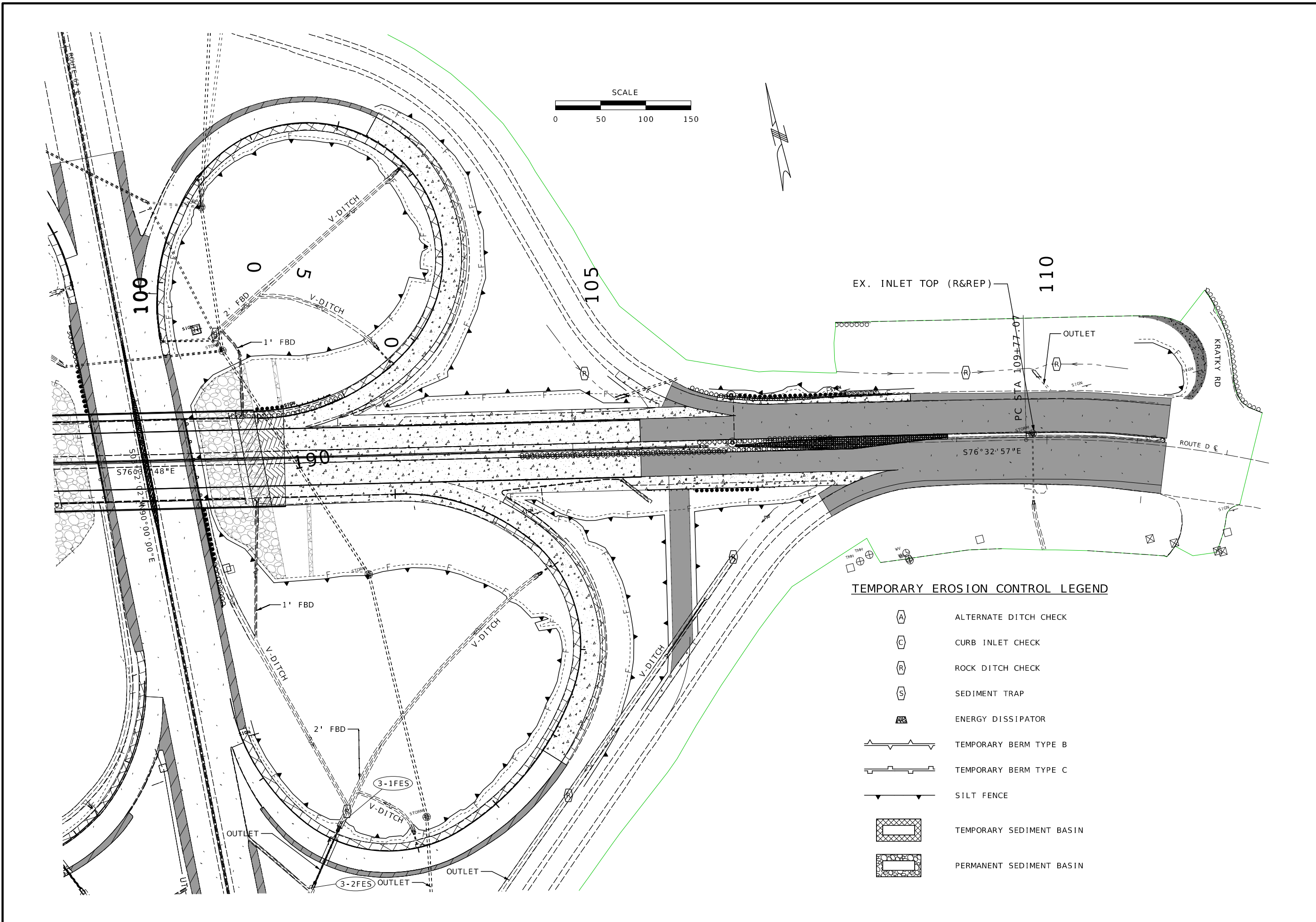
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION







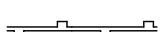
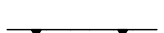
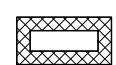
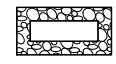
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

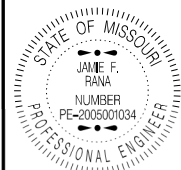
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EROSION CONTROL PLANS



TEMPORARY EROSION CONTROL LEGEND

-  ALTERNATE DITCH CHECK
-  CURB INLET CHECK
-  ROCK DITCH CHECK
-  SEDIMENT TRAP
-  ENERGY DISSIPATOR
-  TEMPORARY BERM TYPE B
-  TEMPORARY BERM TYPE C
-  SILT FENCE
-  TEMPORARY SEDIMENT BASIN
-  PERMANENT SEDIMENT BASIN




JAMIE F. RANA
 NUMBER PE-200501034
 PROFESSIONAL ENGINEER

Jamie F. Rana
 (02/13/2025 10:14:40 AM)
 JAMIE F. RANA, CIVIL
 MO-PE-200501034

DATE PREPARED 2/12/2025	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 99
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

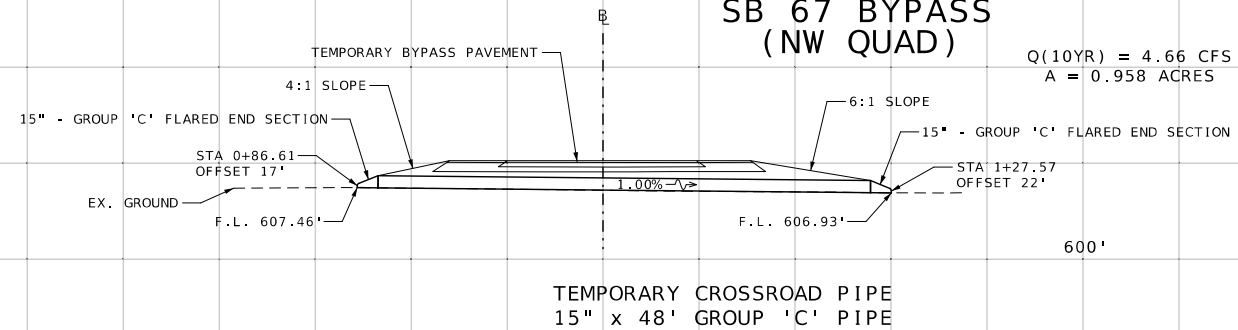
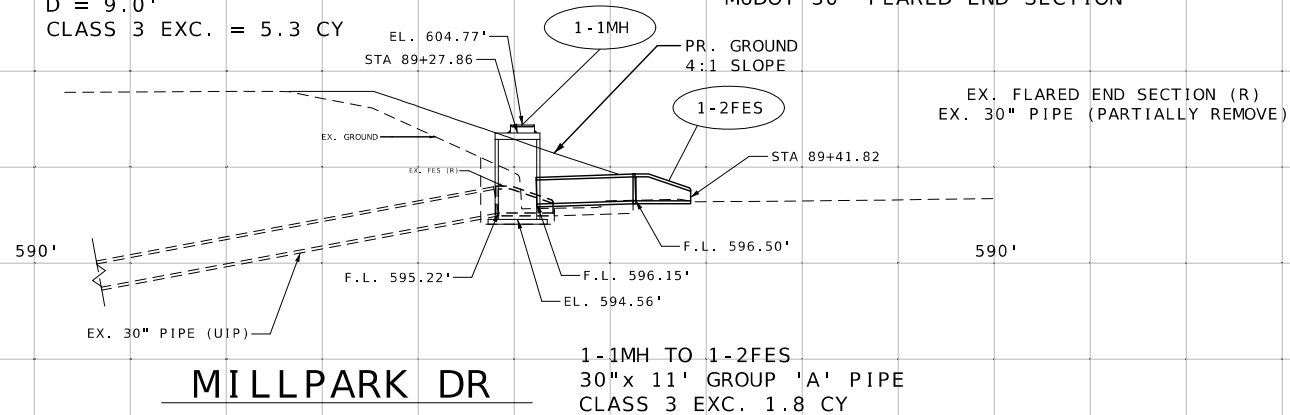
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EROSION CONTROL PLANS

1-1MH
 STA. 89+27.86
 109' LT OF ROUTE D ☉
 MoDOT 48" CONCRETE MANHOLE W/
 TYPE 2 FRAME AND COVER
 D = 9.0'
 CLASS 3 EXC. = 5.3 CY

1-2FES
 STA. 89+41.82
 98' LT OF ROUTE D ☉
 MoDOT 30" FLARED END SECTION

**SB 67 BYPASS
 (NW QUAD)**
 Q(10YR) = 4.66 CFS
 A = 0.958 ACRES



MILLPARK DR

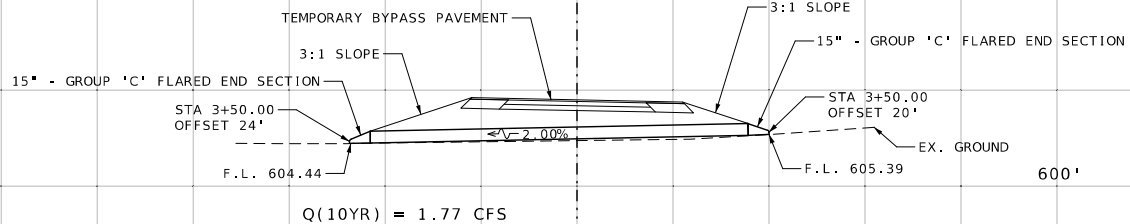
1-1MH TO 1-2FES
 30" x 11' GROUP 'A' PIPE
 CLASS 3 EXC. 1.8 CY

**SB 67 BYPASS
 (SW QUAD)**

3-1FES
 STA. 7+63.85
 16.5' LT OF LOOP RAMP D ☉
 MoDOT 24" FLARED END SECTION

3-2FES
 STA. 7+74.70
 58.6' RT OF LOOP RAMP D ☉
 MoDOT 24" FLARED END SECTION

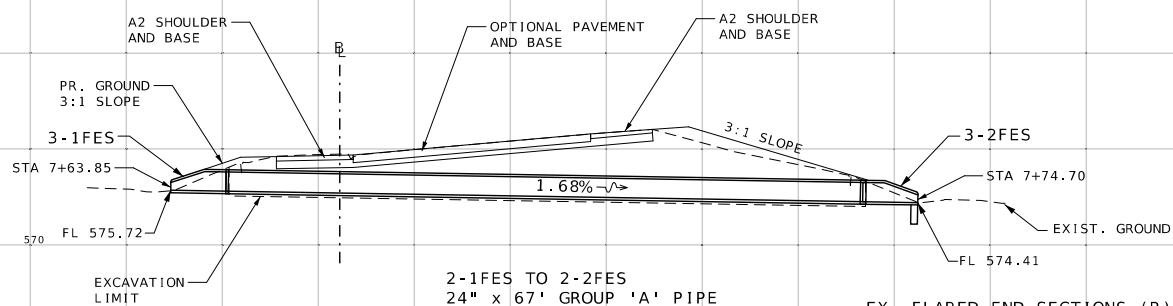
TEMPORARY CROSSROAD PIPE
 15" x 40' GROUP 'C' PIPE



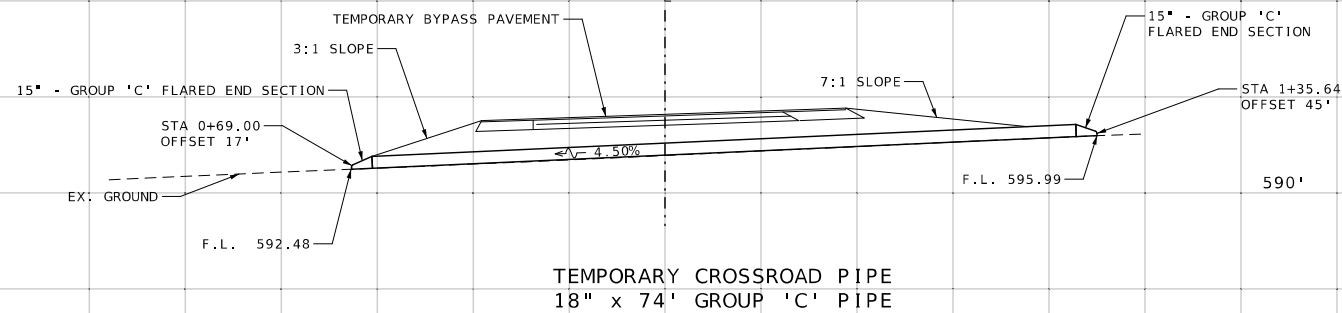
2-1FES TO 2-2FES
 24" x 67' GROUP 'A' PIPE
 CLASS 3 EXC. 63.5 CY

EX. FLARED END SECTIONS (R)
 EX. 24" PIPE (R)

LOOP D



**NB 67 BYPASS
 (SE QUAD)**
 Q(10YR) = 2.75 CFS
 A = 0.505 ACRES



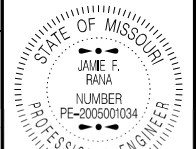
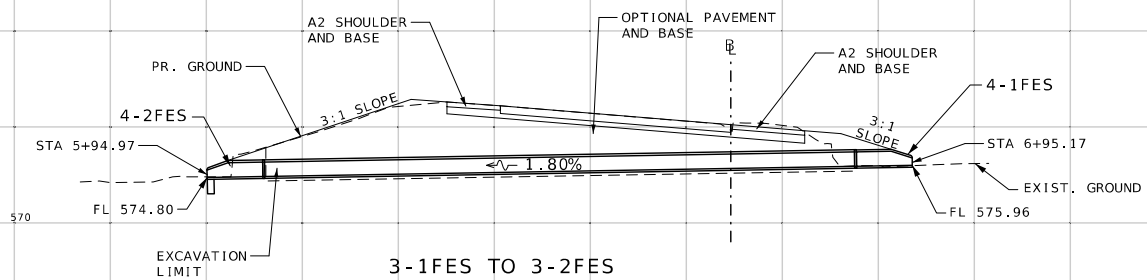
4-2FES
 STA. 6+94.96
 60' LT OF LOOP RAMP C ☉
 MoDOT 18" FLARED END SECTION

4-1FES
 STA. 6+95.17
 21.8' LT OF LOOP RAMP C ☉
 MoDOT 18" FLARED END SECTION

3-1FES TO 3-2FES
 18" x 62' GROUP 'A' PIPE
 CLASS 3 EXC. 73.3 CY

EX. FLARED END SECTIONS (R)
 EX. 15" PIPE (R)

LOOP C



JAMIE F. RANA
 NUMBER
 PE-200501034
 PROFESSIONAL ENGINEER

DATE PREPARED
 12/20/2024
 ROUTE D MO
 DISTRICT SL SHEET NO. 100
 COUNTY ST. LOUIS
 JOB NO. J6S3626
 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)

CULVERT SECTIONS

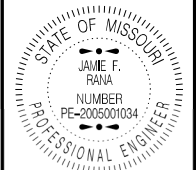
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY 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. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

NOTE: CONTRACTOR TO REMOVE EXIST. POWER CABLE & RUN NEW POWER THROUGH EXIST. & NEW CONDUIT TO RELOCATED POLE MOUNTED ITS CABINET.

**ITS MODOT FIBER PROPOSED
CCTV CAMERA REMOVE AND RELOCATE**

NOTE:

1. SPLICE ENCLOSURES ARE INCLUDED IN PLANS.
2. MODOT F.O. (FIBER OPTIC) - LUMEN AND OTHER PRIVATE COMPANY'S FIBER MAYBE WITHIN PROJECT LIMITS.
3. WINDSTREAM AND MCI - RELOCATE FIBER AND CONDUIT TO BE ABANDONED IN PLACE.



Jamie F. Rana
02/13/2025 10:15:11 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/12/2025

ROUTE STATE
D MO

DISTRICT SHEET NO.
SL 101

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

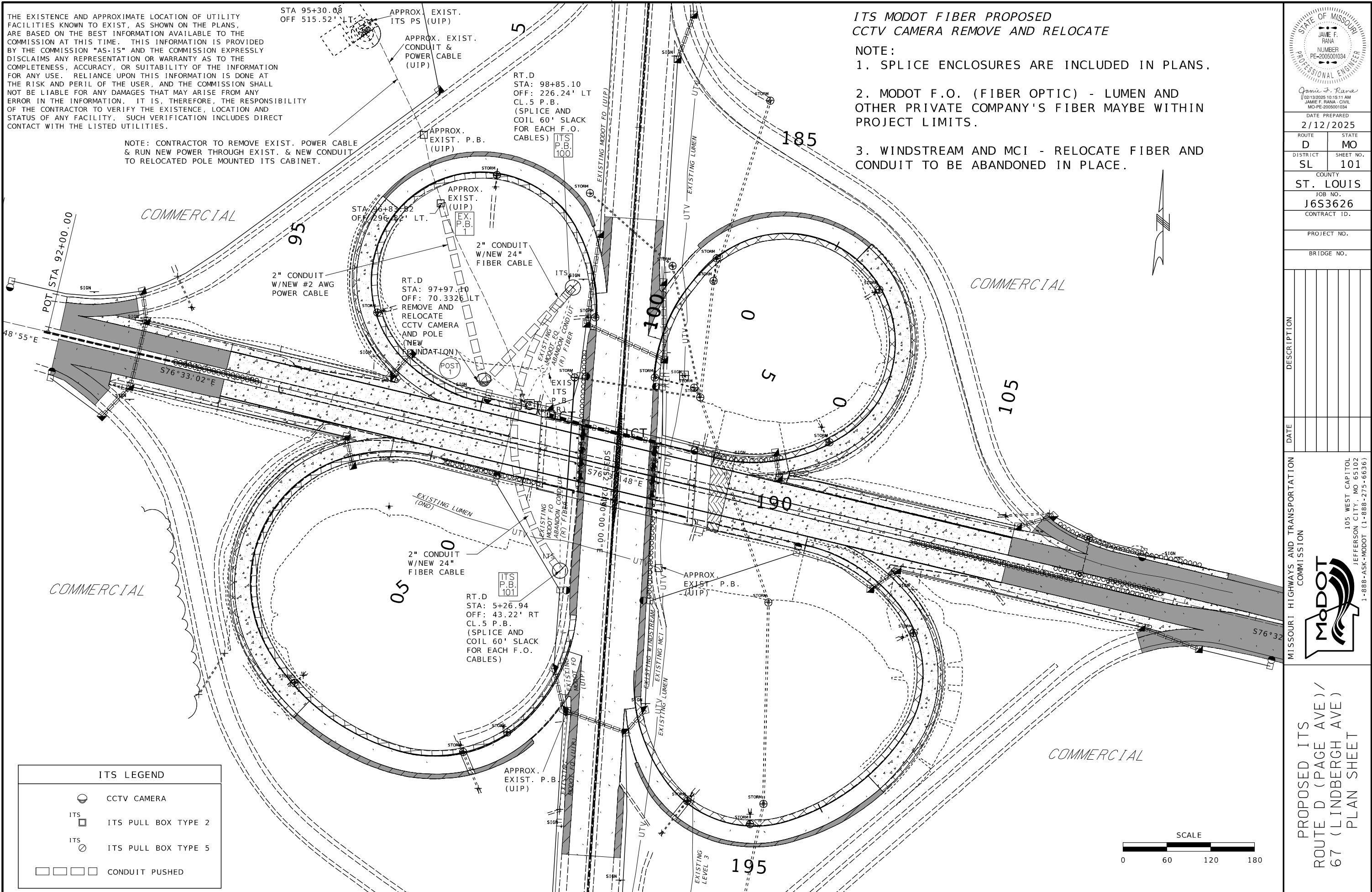
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

PROPOSED ITS
ROUTE D (PAGE AVE) /
67 (LINDBERG AVE)
PLAN SHEET

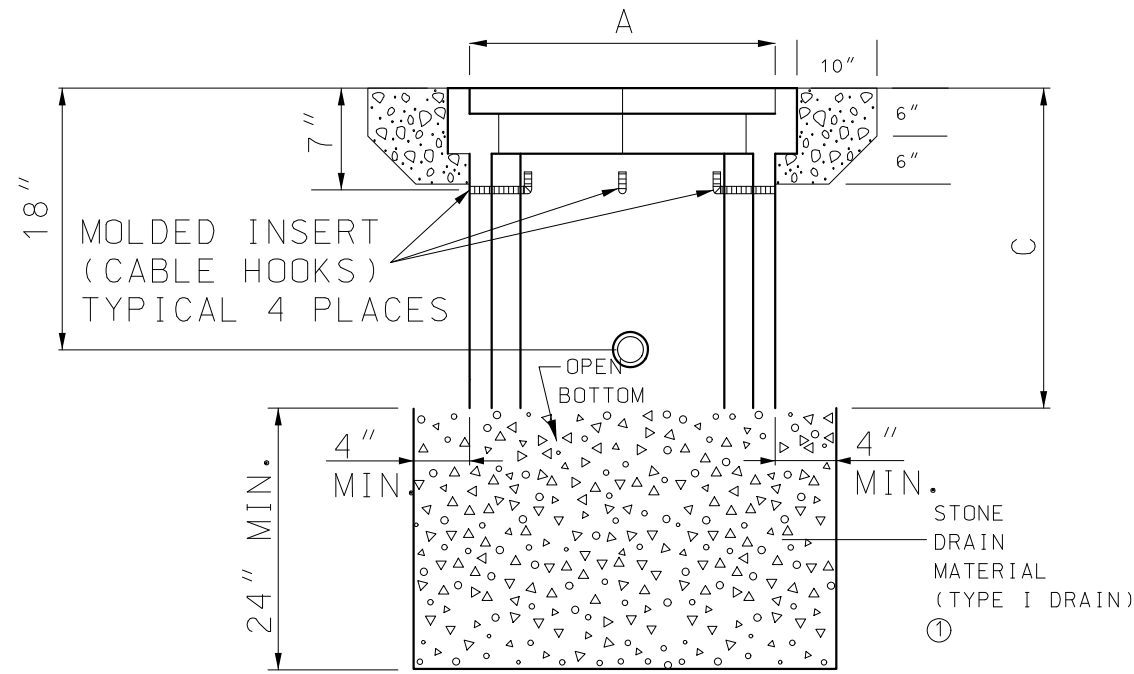


ITS LEGEND	
	CCTV CAMERA
	ITS PULL BOX TYPE 2
	ITS PULL BOX TYPE 5
	CONDUIT PUSHED

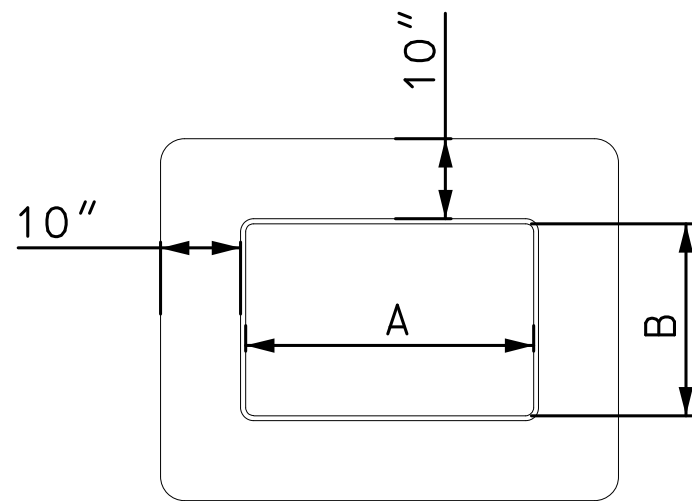


ITS PULL BOXES WITH CONCRETE PADS

CLASS 2 ITS PULL BOX WITH CONCRETE PAD

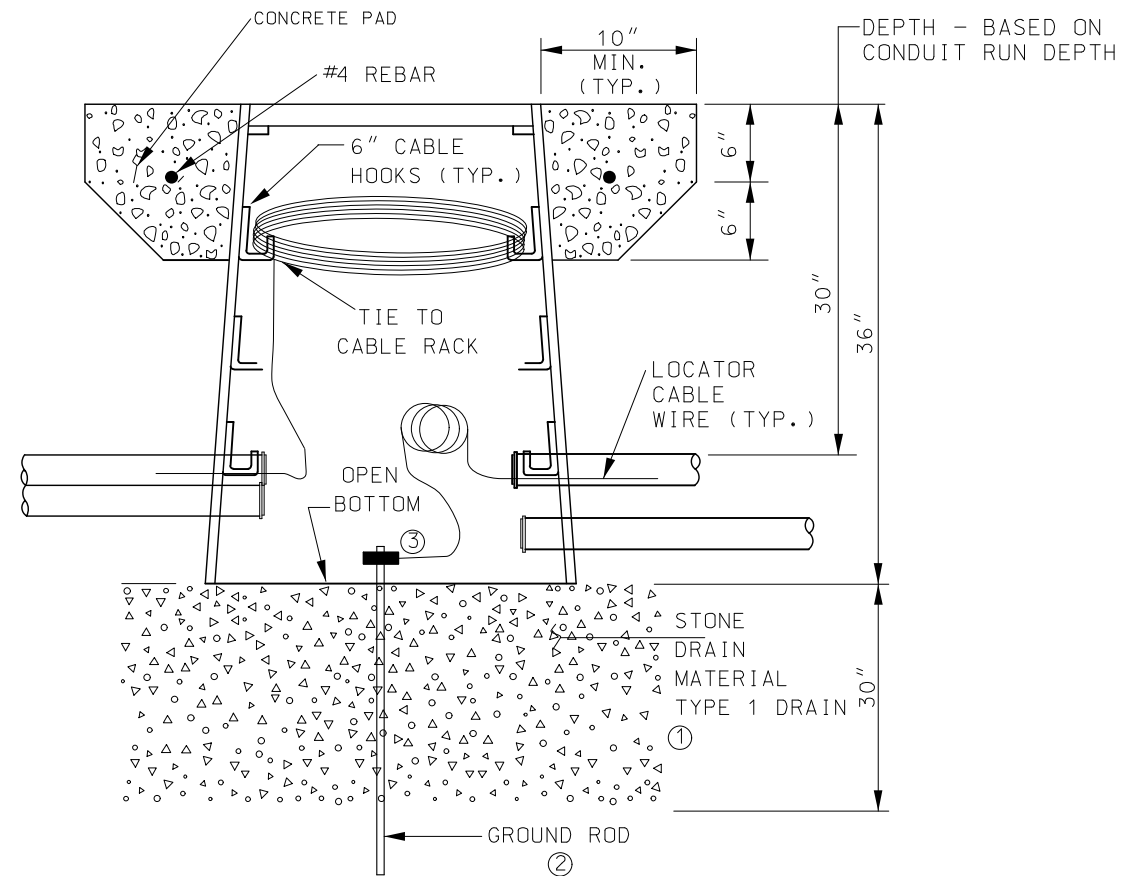


ELEVATION

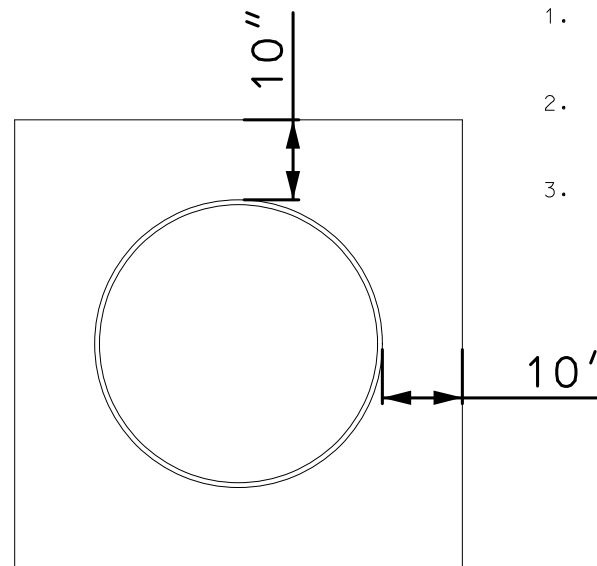


PLAN

CLASS 5 ITS PULL BOX WITH CONCRETE PAD



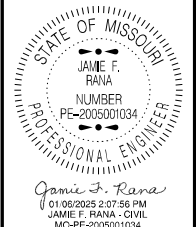
ELEVATION



PLAN

1. PROVIDE TYPE II DRAIN AS DIRECTED BY ENGINEER. SEE STANDARD PLAN 902.20 FOR TYPE II DRAIN DETAILS.
2. GROUND ROD ONLY REQUIRED IN PULL BOX NEAREST TO AN ITS OR SIGNAL CABINET.
3. IN THE PULL BOX NEAREST THE ITS OR SIGNAL CABINET, CONNECT THE TRACER WIRE TO A GROUND ROD CLAMP AND PROVIDE 5 FEET OF SLACK.

FOR PULL BOX DIMENSIONS SEE STANDARD PLAN 902.20



DATE PREPARED 12/23/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 102
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

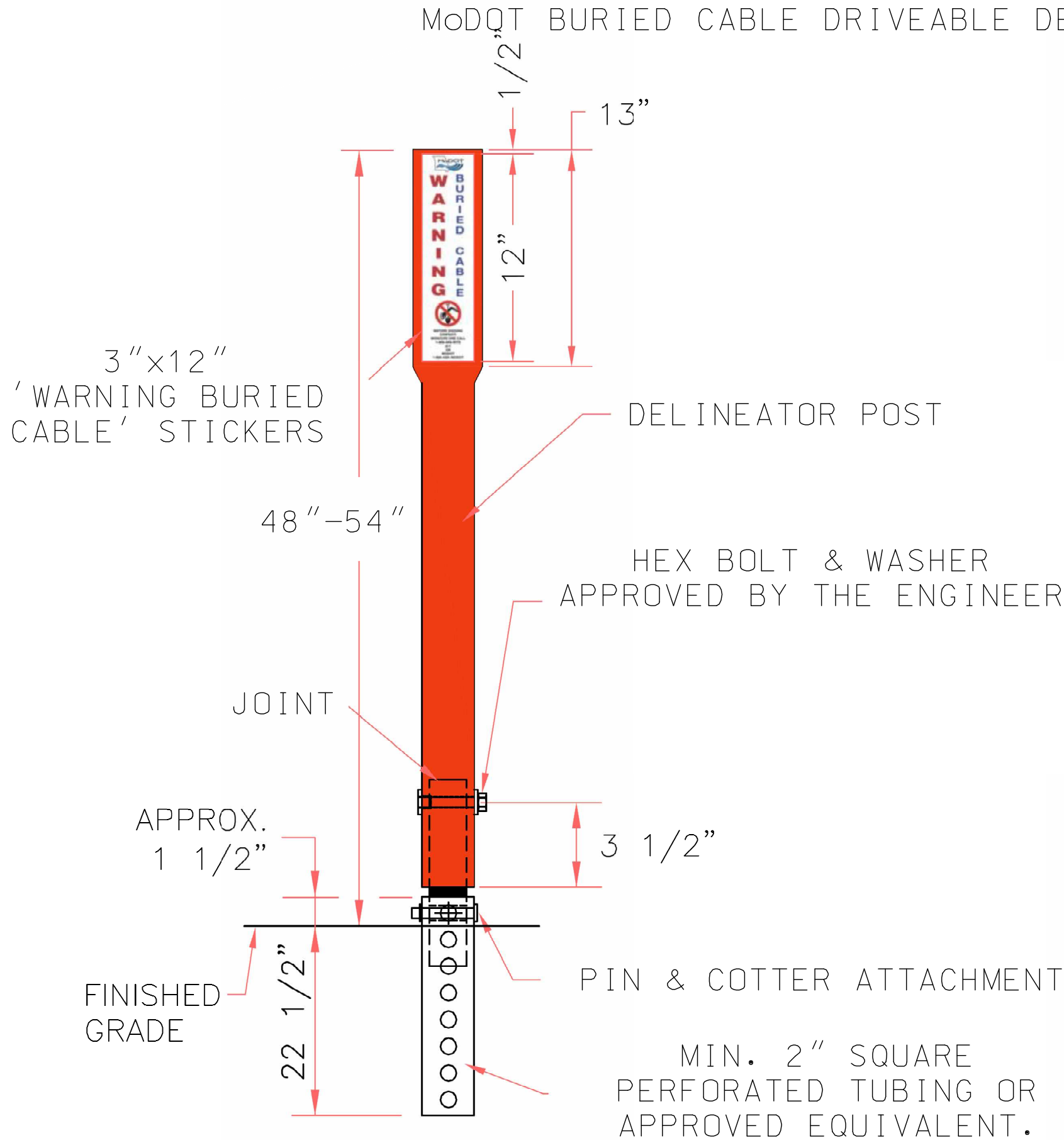
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION


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

SPECIAL SHEET
PULL BOX CONC. PAD

MoDOT BURIED CABLE DRIVEABLE DELINEATOR POST




- NOTES:
1. STICKERS TO BE OF A NON-REFLECTIVE MATERIAL/SHEETING.
 2. STICKERS SHALL BE PROVIDED ON 1 SIDE OF POST FOR INTERSTATE ROUTES UNLESS SPECIFIED BY THE ENGINEER.
 3. STICKERS SHALL BE PROVIDED ON BOTH SIDES OF POST FOR ARTERIAL ROUTES UNLESS SPECIFIED BY THE ENGINEER.
 4. STICKERS TO BE INCLUDED IN COST OF A DELINEATOR POST.

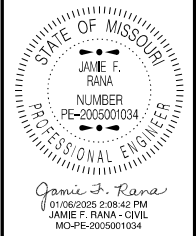


W A R N I N G

B U R I E D C A B L E



BEFORE DIGGING
CONTACT:
MISSOURI ONE CALL
1-800-DIG-RITE
811
OR
MODOT
1-888-ASK-MODOT




DATE PREPARED
12/23/2024

ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 103
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

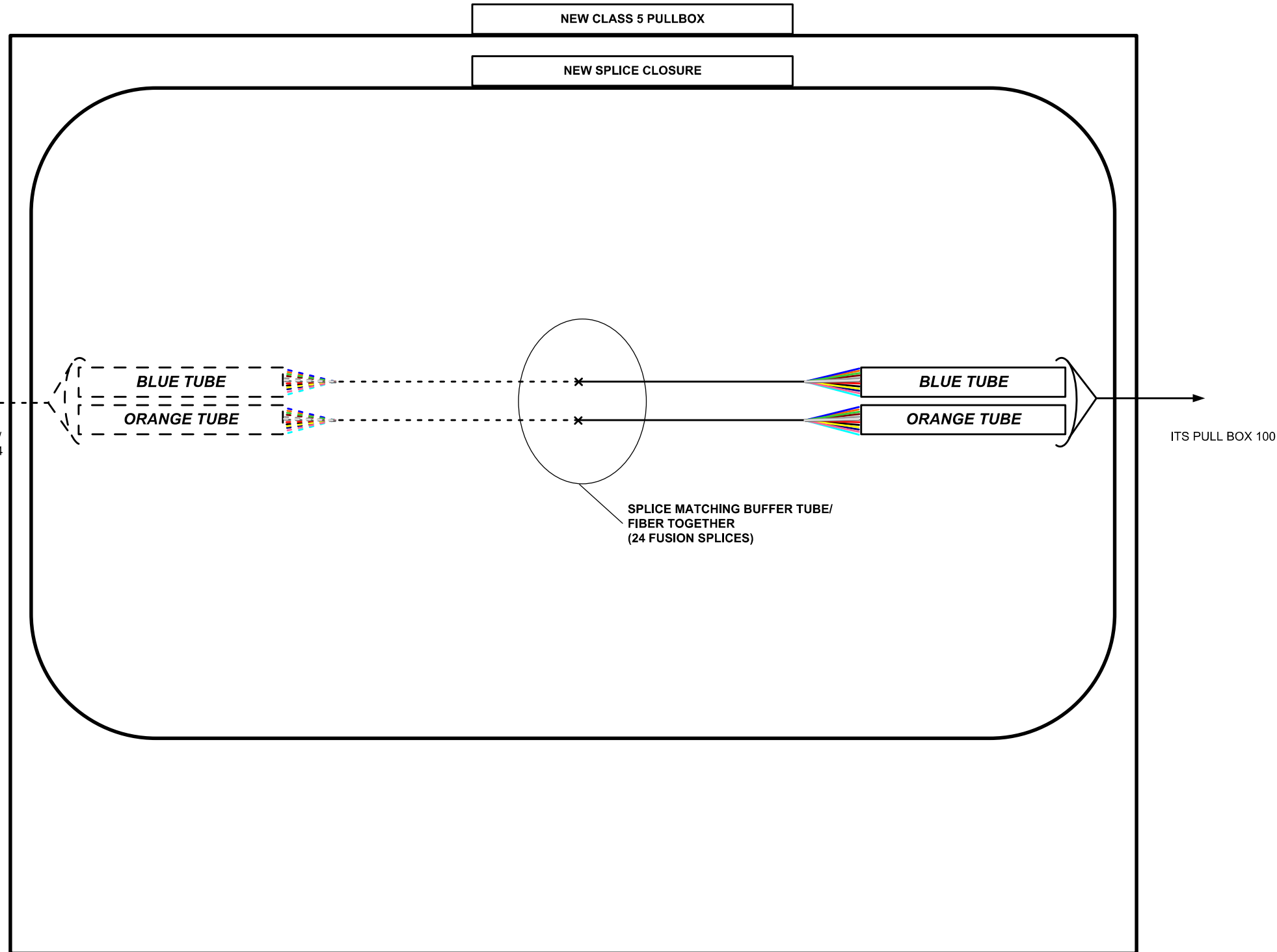
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

SPECIAL SHEET
ITS DELINEATOR POST

**PHASE 1 – ITS PULLBOX 101
INSTALLATION AND SPLICE**



KEY

- MI170N123.4C DEVICE IDENTIFIER
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS
- EXISTING DYNAMIC MESSAGE SIGN
- SM PATCH THROUGH FIBER OPTIC JUMPER
- SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- SM FIBER OPTIC PIGTAIL
- MM PATCH THROUGH FIBER OPTIC JUMPER
- MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- MM FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- PATCH PANEL MODULE
- WIRELESS LINK
- SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.



DATE PREPARED 12/06/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 104
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6346)

**VLAN
VL0037**

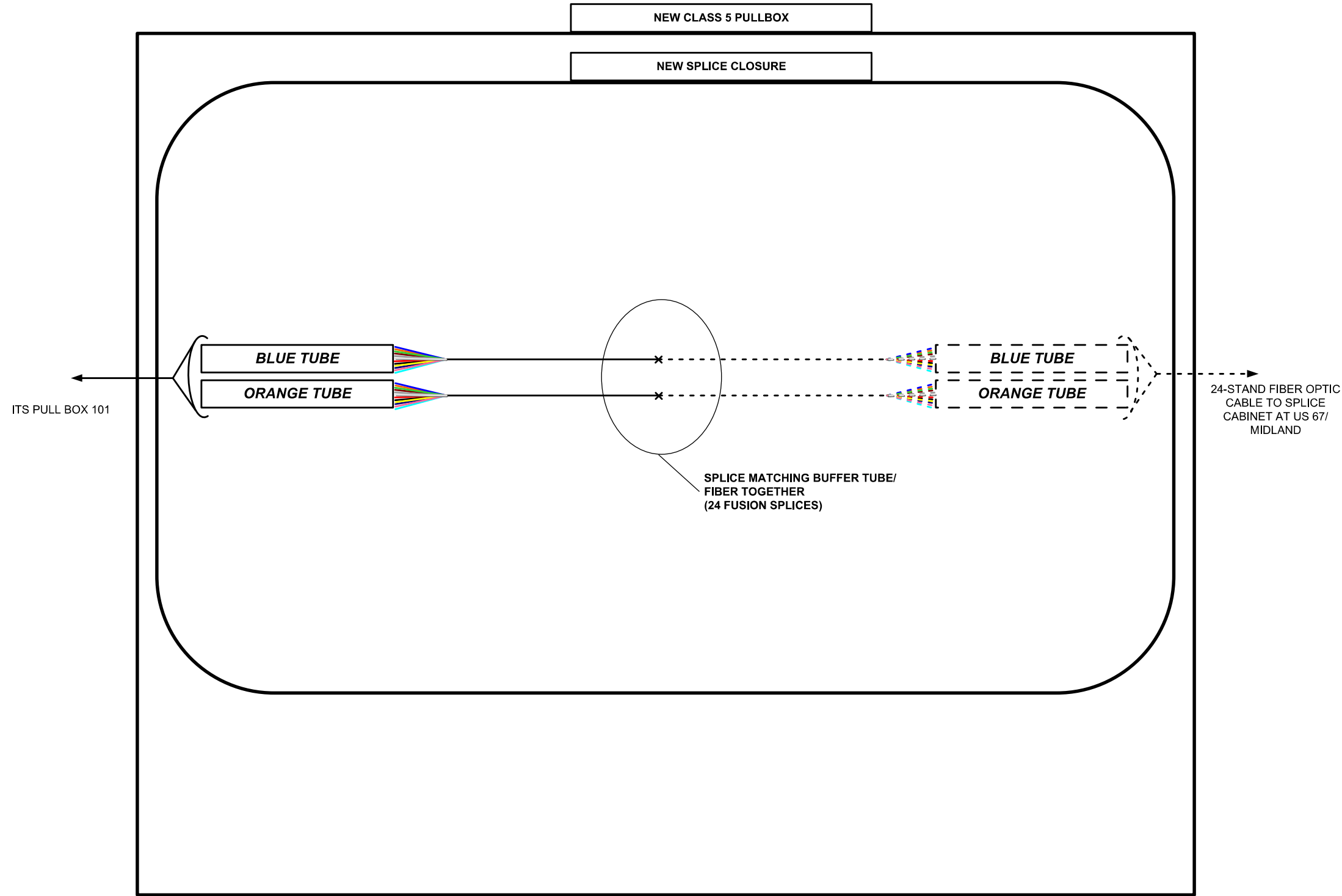
**FIBER SPLICING &
BLOCK DIAGRAM**
ITS PULL BOX 101
US 67 AND ROUTE D SWQ
SHEET 1 OF 4

HNTB
115 KIRK DRIVE
KANAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001273

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

REV.

**PHASE 1 – ITS PULLBOX 100
INSTALLATION AND SPLICE**



KEY

MI170N123.4C DEVICE IDENTIFIER

CCTV CAMERA

EXISTING CCTV CAMERA

DMS

EXISTING DYNAMIC MESSAGE SIGN

SM PATCH THROUGH FIBER OPTIC JUMPER

SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

SM FIBER OPTIC PIGTAIL

MM PATCH THROUGH FIBER OPTIC JUMPER

MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

MM FIBER OPTIC PIGTAIL

BARE FIBER LEFT COILED IN SPLICE TRAY

EXISTING/PROPOSED FUSION SPLICE

PATCH PANEL MODULE

WIRELESS LINK

SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

DATE PREPARED		12/06/2024	
ROUTE	STATE	DISTRICT	SHEET NO.
D	MO	SL	105
COUNTY			
ST. LOUIS			
JOB NO.			
J6S3626			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

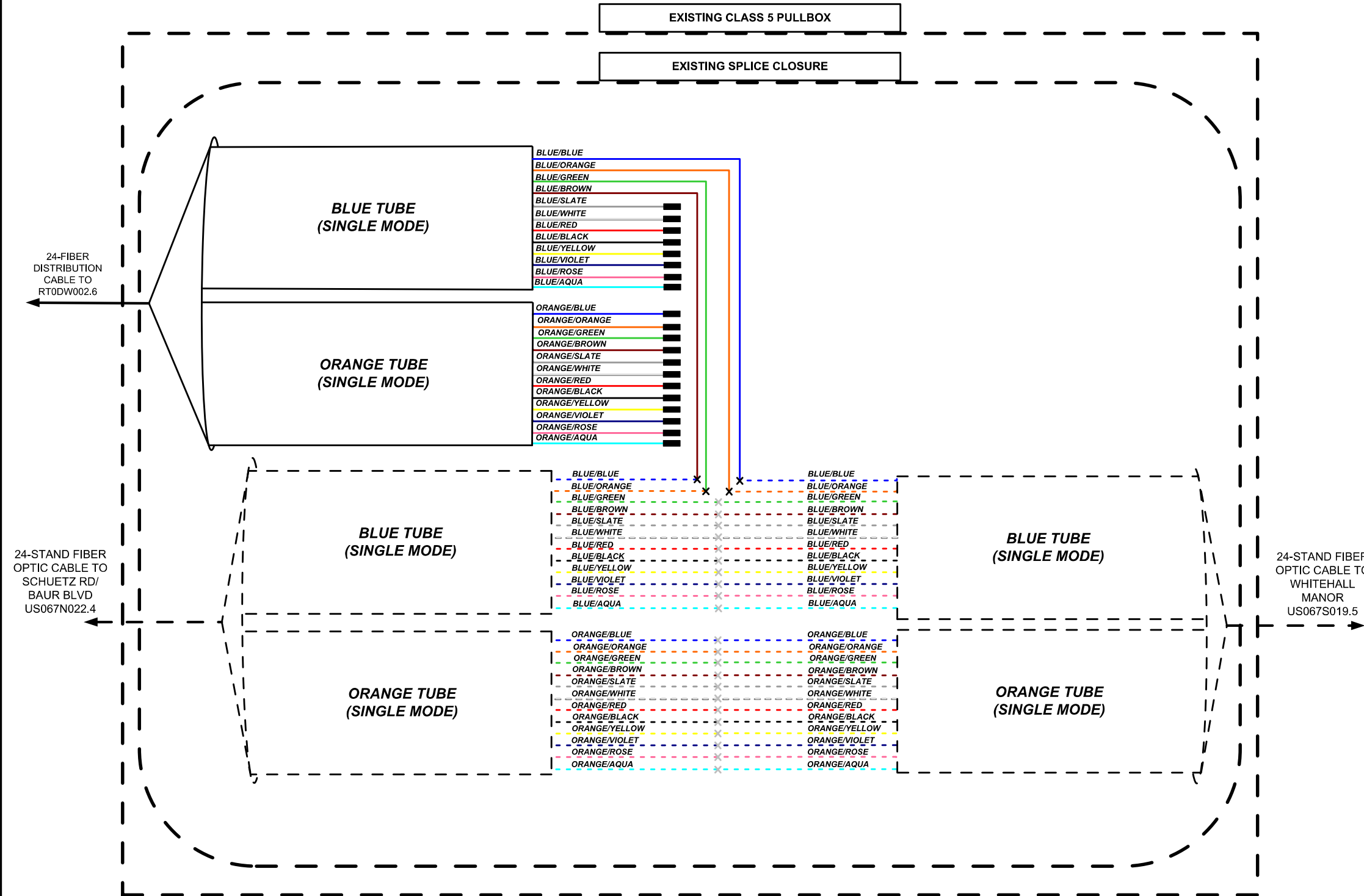
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6366)

HNTB
 115 KIRK DRIVE
 KANSAS CITY, MO 64105-1310
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001273

VLAN
 VL0037

**FIBER SPLICING &
BLOCK DIAGRAM**
ITS PULL BOX 100
US 67 AND ROUTE D NWQ
SHEET 2 OF 4

**PHASE 2 – CCTV CAMERA
BRANCH CONNECTION**



KEY

MI170N123.4C DEVICE IDENTIFIER

CCTV CAMERA

EXISTING CCTV CAMERA

DYNAMIC MESSAGE SIGN

EXISTING DYNAMIC MESSAGE SIGN

SM PATCH THROUGH FIBER OPTIC JUMPER

SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

SM FIBER OPTIC PIGTAIL

MM PATCH THROUGH FIBER OPTIC JUMPER

MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

MM FIBER OPTIC PIGTAIL

BARE FIBER LEFT COILED IN SPLICE TRAY

EXISTING/PROPOSED FUSION SPLICE

PATCH PANEL MODULE

WIRELESS LINK

SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.



DATE PREPARED 12/06/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 106
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6346)

VLAN
VL0037

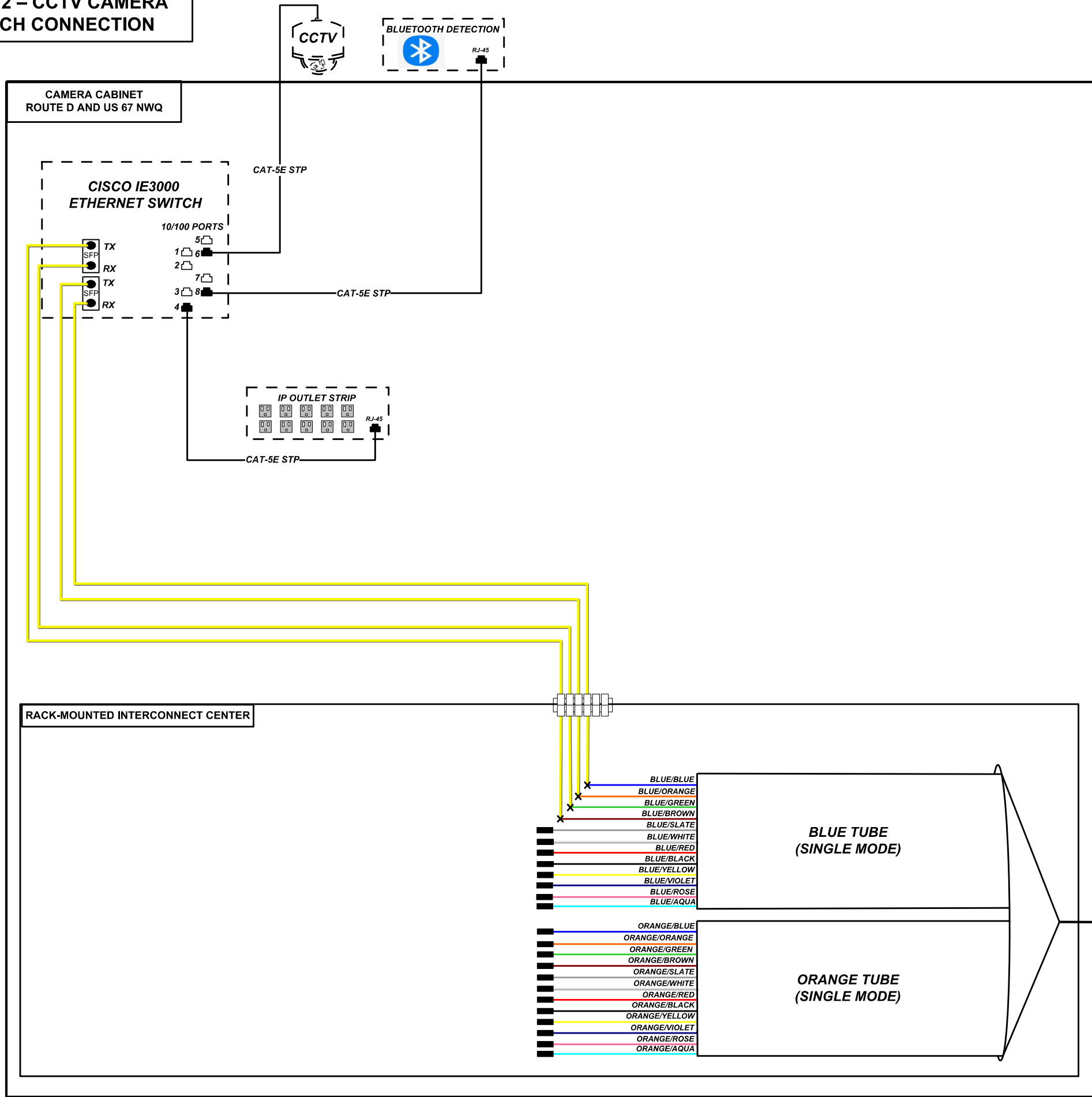
HNTB

FIBER SPLICING &
BLOCK DIAGRAM

ITS PULL BOX 100
US 67 AND ROUTE D NWQ
SHEET 3 OF 4

115 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001273

PHASE 2 – CCTV CAMERA BRANCH CONNECTION



KEY

M1170N123.4C DEVICE IDENTIFIER

CCTV CCTV CAMERA

EXISTING CCTV CAMERA

DMS DYNAMIC MESSAGE SIGN

EXISTING DYNAMIC MESSAGE SIGN

SM PATCH THROUGH FIBER OPTIC JUMPER

SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

SM FIBER OPTIC PIGTAIL

MM PATCH THROUGH FIBER OPTIC JUMPER

MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

MM FIBER OPTIC PIGTAIL

BARE FIBER LEFT COILED IN SPLICE TRAY

EXISTING/PROPOSED FUSION SPLICE

PATCH PANEL MODULE

WIRELESS LINK

VDS AP SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.



DATE PREPARED 12/06/2024	
ROUTE D	STATE MO
DISTRICT SL	SHEET NO. 107
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6346)

VLAN
VL0037

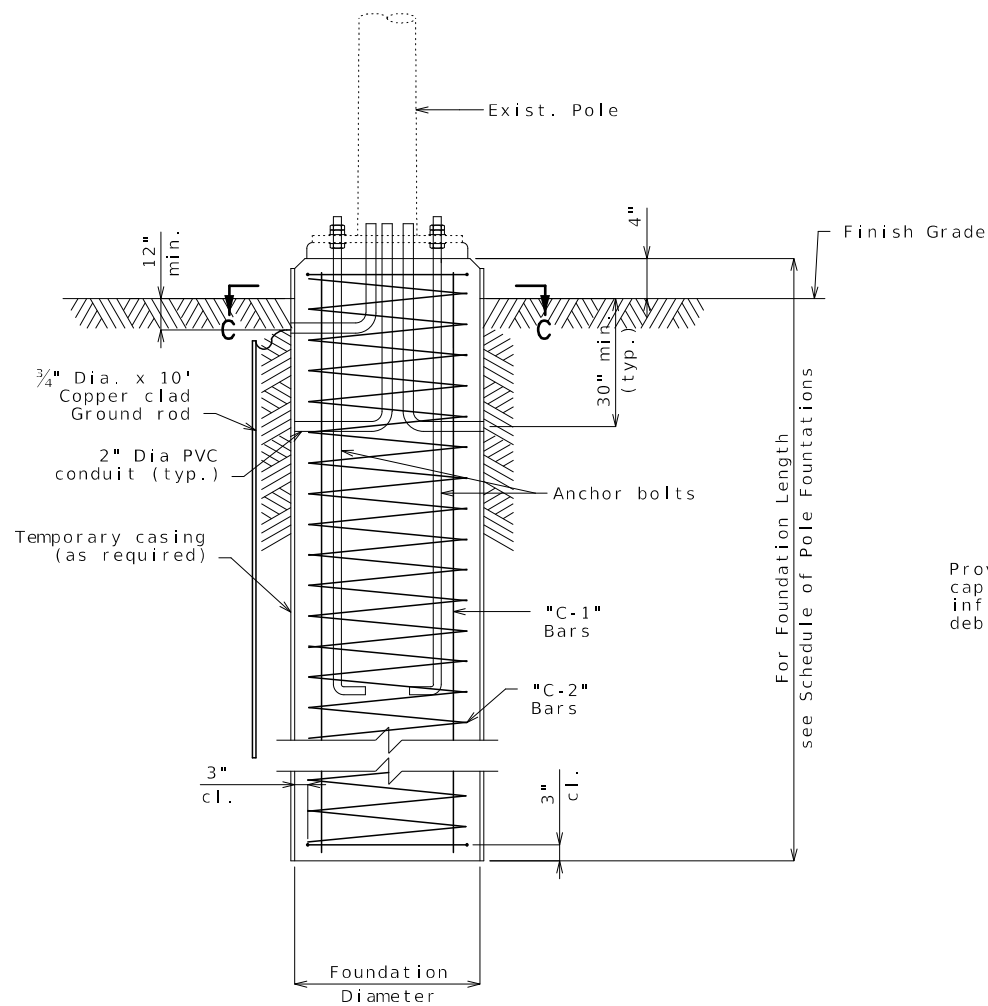
HNTB

115 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001273

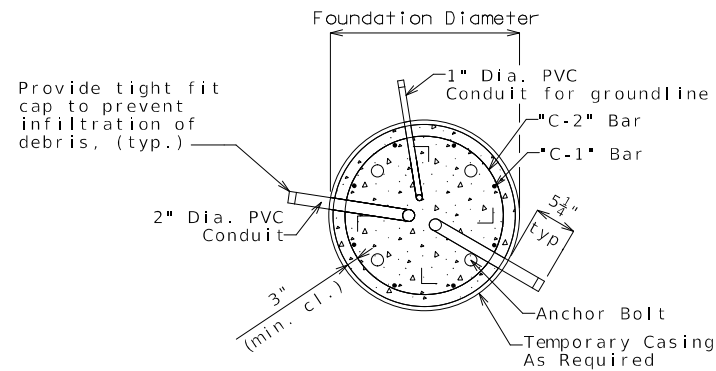
FIBER SPLICING & BLOCK DIAGRAM
RT00DW002.6
US 67 AND ROUTE D
SHEET 4 OF 4

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

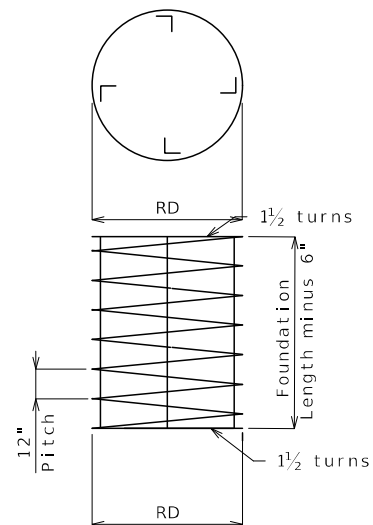
REV.



CCTV POLE FOUNDATION



SECTION C-C



TYPE "C-2" TIE DETAIL

CCTV POLE FOUNDATION LOCATIONS		
NAME	LOCATION	POLE HEIGHT (FT)
CCTV	Northwest Quadrant of Route 67 and Route D	50'±

Notes:

Integrity testing on completed drilled shafts for pole foundations will not be required.

All foundations shall contain a 3/4" diameter copper clad ground rod.

Temporary steel casing may be required in each shaft to prevent soil collapse.

Drilling slurry, if used, shall require desanding.

The drilled shaft foundation (except anchor bolts) is designed in accordance with the 2009 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals and interims thru 2010 and ACI 318-05.

For Bolt Circle Dimensions & Anchor Bolt Detail see Sheet 1 of 2.

Foundation shall be grounded.

If the ground cannot be installed vertically without damage, the ground rod may be installed at 45° deg. (max.) from vertical.

SCHEDULE OF POLE FOUNDATIONS									
QUANTITY	POLE HEIGHT (FT)	FOUNDATION LENGTH	FOUNDATION DIAMETER	TYPE "C-1"			* TYPE "C-2"		
				NO.	SIZE	LENGTH	SIZE	RD	LENGTH
1	50	12'-0"	3'-0"	13	#8	11'-6"	#4	2'-6"	118'-10"

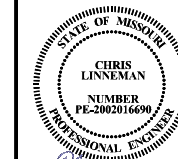
* Four angle or channel spacers are required for each spiral. Spacers are to be placed on inside of spirals. Length and weight of spirals do not include splices or spacers.

Note:

If rock is encountered shallower than the plan foundation length, a rock socket will be used. The rock socket shall be drilled to the shallower of: design depth, 4' (hard rock) or 6' (poor rock).

No additional payment will be made for rock sockets, if necessary.

Foundation design is applicable for cohesive soils with $c \geq 1.5$ ksf.



12/19/2024 7:45:45 AM
Chris Linneman - Civil
MO PE-2002016690

DATE PREPARED
12/9/2024

ROUTE D STATE MO

DISTRICT SL SHEET NO. 109

COUNTY ST. LOUIS

JOB NO. J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

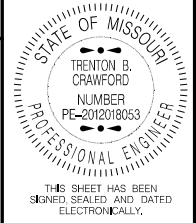


EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

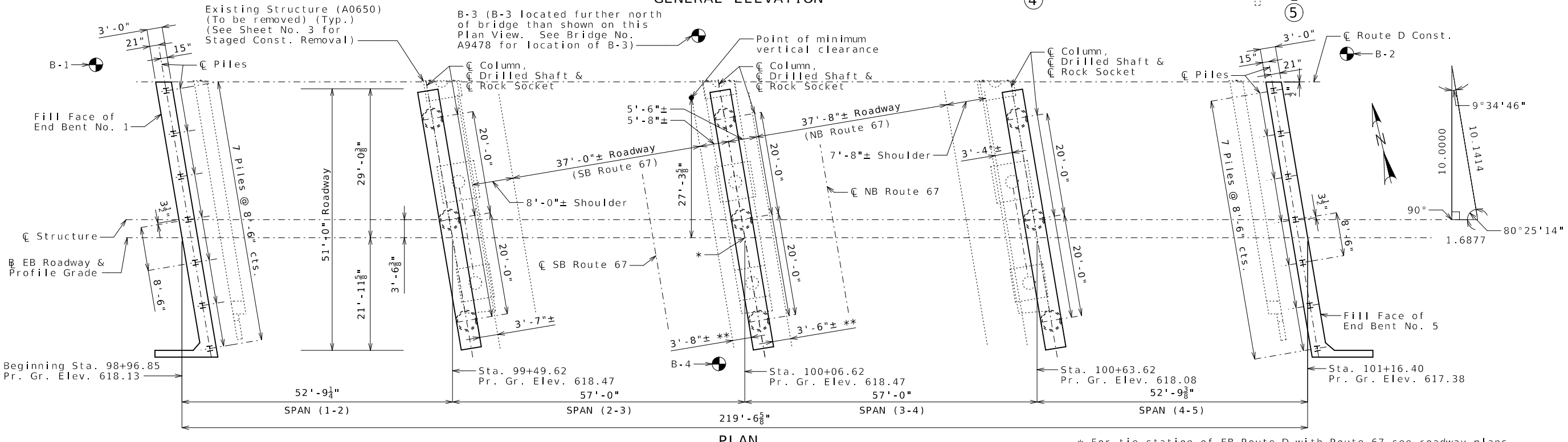
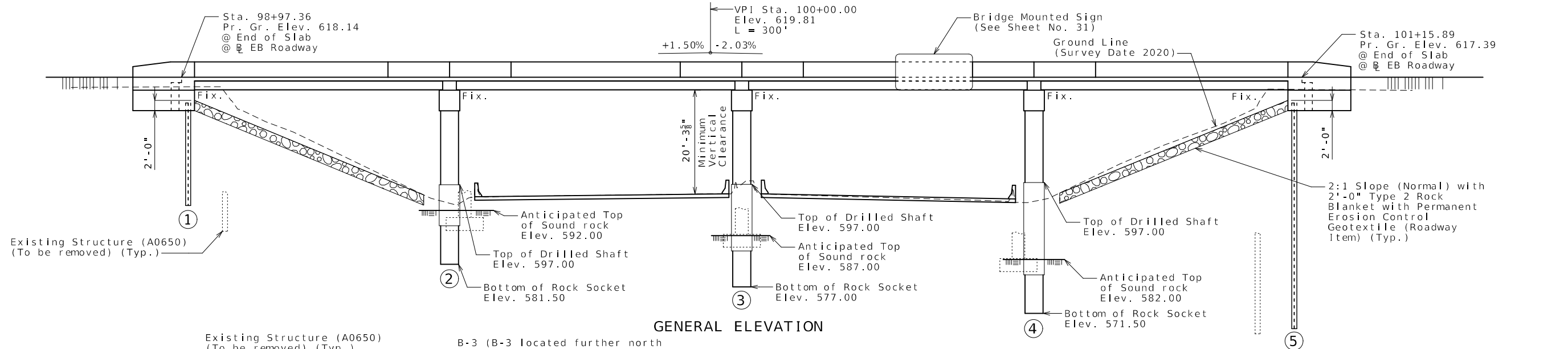
ITS PLAN
CCTV POLE
RELOCATION
SHEET 2 OF 2

(51'-57'-57'-51') SDCL COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: 9°34'46" R.A.)

SEC/SUR 25 TWP 46N RGE 5E



DATE PREPARED	
1/29/2025	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
BR	1
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A9477	

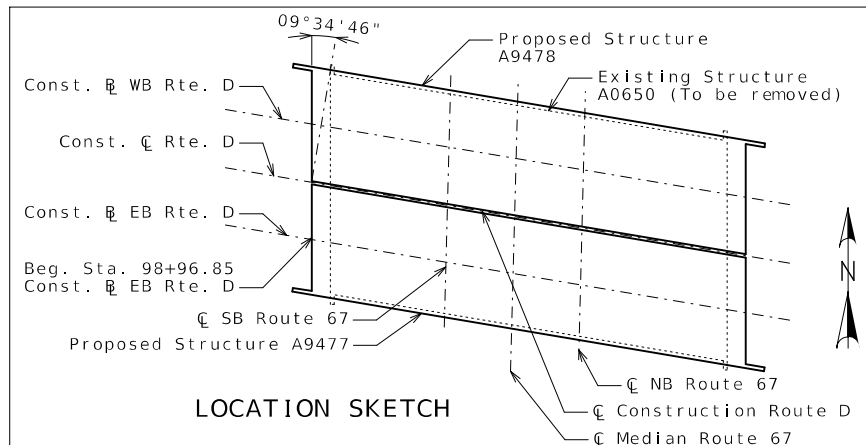


● Indicates location of borings.

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. 33 & 34 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.



* For tie-station of EB Route D with Route 67 see roadway plans.

** Horizontal Clearance to Column face

Notes:

Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete beam within the limits of the structure and for not less than 25 feet in back of the fill face of the ends bents before any piles are driven for any bents falling within the embankment section.

For General Notes, Estimated Quantities, Estimated Quantities for Slab on Steel and Foundation Data, see Sheet No. 2.

B.M. #1 - 5/8" ROD W/ CAP STAMPED CONTROL POINT, EL. 631.67, NORTHING 846334.98, EASTING 1043305.21

B.M. #2 - 5/8" ROD W/ CAP STAMPED CONTROL POINT, EL. 579.72, NORTHING 846258.28, EASTING 1042033.18

BRIDGE: ROUTE D EB OVER ROUTE 67

ROUTE D FROM ROUTE 270 TO ROUTE 170
ABOUT 2.3 MILES EAST OF ROUTE 270
BEGINNING STATION 98+96.85

Designed Oct. 2024
Detailed Oct. 2024
Checked Oct. 2024

General Notes:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
 2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design (3rd Ed.)
 Seismic Design Category = B (Seismic Details plus Abutment Seismic Design)
 Design earthquake response spectral acceleration coefficient at 1.0 second period, SD1 = 0.154g
 Acceleration Coefficient (effective peak ground acceleration coefficient), As = 0.180g

Design Loading:

Vehicular = HL-93
 Future Wearing Surface = 35 lb/sf
 Earth = 120 lb/cf
 Equivalent Fluid Pressure = 45 lb/cf (Min.)
 Superstructure: Simply-Supported, Non-Composite for dead load, Continuous Composite for live load.

Design Unit Stresses:

Class B Concrete (Substructure, except Drilled Shafts and Rock Sockets)	f'c = 3,000 psi
Class B-2 Concrete (Drilled Shafts & Rock Sockets)	f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Barrier)	f'c = 4,000 psi
Class B-1 Concrete (Barrier)	f'c = 4,000 psi
Reinforcing Steel (Stainless Steel - ASTM A955 Duplex Alloy Grade 75)	fy = 75,000 psi
Structural Steel (ASTM A709 Grade 50)	fy = 50,000 psi
Structural Steel HP Pile (ASTM A709 Grade 50)	fy = 50,000 psi

Neoprene Pads:

Neoprene bearing pads shall be 60 durometer and shall be in accordance with Sec 716.

Fabricated Steel Connections:

Field connections shall be made with 3/4-inch diameter ASTM F3125 Grade A325 Type 1 bolts and 13/16-inch diameter holes, except as noted.

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.

Minimum clearance between galvanized steel (piles and structural steel, including shear connectors) and stainless reinforcing steel including bar supports shall be 1 1/2". Nylon, PVC, or polyethylene spacers shall be used to maintain clearance. Nylon cable ties shall be used to bind the spacers to the reinforcement.

High Strength bolts, nuts and washers will be sampled for quality assurance as specified in Sec 106.

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710 except that no measurement will be made for mechanical bar splices and they will be completely covered by the contract unit price for other items. Mechanical bar splice systems shall be capable of developing 125 percent of the specified yield strength of the stainless steel reinforcement being spliced and shall be installed in accordance with the manufacturer's recommendations.

Traffic Handling:

Vertical clearance for Route 67 traffic during construction shall be 15'-0" minimum over a 16'-0" wide horizontal opening of the roadway in each direction.

Traffic to be maintained on structures during construction. See roadway plans for traffic control and Sheet No. 3 for staged construction details.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	365
Reinforcing Steel (Stainless Steel)	pound	99,560

The table of Estimated Quantities for Slab on Steel 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 stay-in-place forms, conventional forms, all concrete, stainless steel reinforcing and sheet metal at intermediate bents will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the 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 SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forms or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene materials shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Detailed Oct. 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Estimated Quantities				
Item		Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	110		110
Temporary Shoring	lump sum			1
* Removal of Bridges (A0650)	lump sum			1
Partial Removal of Raised Median Curb	sq. foot			1912
Bridge Approach Slab (Major)	sq. yard		230	230
Drilled Shafts (4 ft. 0 in. Dia.)	linear foot	90.0		90.0
Rock Sockets (3 ft. 6 in. Dia.)	linear foot	93.0		93.0
Video Camera Inspection	each	9		9
Foundation Inspection Holes	linear foot	183.0		183.0
Sonic Logging Testing	each	9		9
Galvanized Structural Steel Piles (12 in.)	linear foot	455		455
Pile Point Reinforcement	each	14		14
Class B Concrete (Substructure)	cu. yard	204.5		204.5
Slab on Steel	sq. yard		1303	1303
Type D Barrier	linear foot		475	475
Reinforcing Steel (Stainless Steel) (Bridges)	pound	42,430		42,430
Fabricated Sign Support Brackets	lump sum		1	1
Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50	pound		160,460	160,460
Galvanizing Structural Steel	lump sum		1	1
Vertical Drain at End Bents	each			2
Laminated Neoprene Bearing Pad	each		36	36
Laminated Neoprene Bearing Pad (Tapered)	each		12	12

* Includes removal of existing cathodic protection system.

All concrete between the upper and lower construction joints in the end bents is included in the Estimated Quantities for Slab on Steel.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Steel.

All reinforcement in the intermediate bent concrete diaphragms except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Steel.

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Steel.

Structural steel shall be galvanized in accordance with ASTM A123 and Sec 1081.

Sheet Metal in intermediate concrete diaphragms shall be considered incidental to the cost of Slab on Steel.

Cost of L4x4 ASTM A709 Grade 36 HP pile anchors and 3/4-inch diameter ASTM F3125 Grade A325 Type 1 bolts, complete in place, will be considered completely covered by the contract unit price for Galvanized Structural Steel Piles (12 in.).

Foundation Data						
Type	Design Data	Bent Number				
		1	2	3	4	5
Load Bearing Pile	Pile Type and Size	HP 12x53	--	--	--	HP 12x53
	Number	ea	7	--	--	7
	Approximate Length Per Each	ft	21	--	--	44
	Pile Point Reinforcement	ea	All	--	--	All
	Min. Galvanized Penetration (Elev.)	ft	21	--	--	44
	Pile Driving Verification Method		DF	--	--	DF
	Resistance Factor		0.4	--	--	0.4
Rock Socket	Minimum Nominal Axial Compressive Resistance	kip	362	--	--	364
	Number	ea	--	3	3	3
	Foundation Material		--	Weak Rock	Weak Rock	Weak Rock
	Elevation Range	ft	--	586.0-550.0	581.0-550.0	576.5-550.0
	Minimum Nominal Axial Compressive Resistance (Side Resistance)	ksf	--	18.0	18.0	18.0
Minimum Nominal Axial Compressive Resistance (Tip Resistance)	ksf	--	122.4	129.3	123.1	

DF = FHWA-Modified Gates Dynamic Formula

Load Bearing Pile:

Minimum Nominal Axial Compressive Resistance = $\frac{\text{Maximum Factored Loads}}{\text{Resistance Factor}}$

Rock Socket (Drilled Shafts):

Minimum Nominal Axial Compressive Resistance (Side Resistance + Tip Resistance) = $\frac{\text{Maximum Factored Loads}}{\text{Resistance Factor}}$

All piles shall be galvanized down to the minimum galvanized penetration (elevation). Resistance Factors

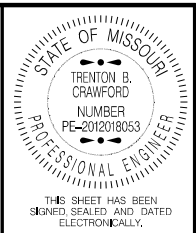
Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

HP piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702. When pile refusal on rock occurs, as approved by the engineer, the minimum nominal axial compressive resistance is verified and no additional pile driving verification method is required.

The contractor shall make every effort to achieve the minimum galvanized penetration (elevation) shown on the plans for all piles. Deviation 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.

GENERAL NOTES AND QUANTITIES

Sheet No. 2 of 35



DATE PREPARED
1/29/2025

ROUTE D STATE MO

DISTRICT BR SHEET NO. 2

COUNTY ST. LOUIS

JOB NO. J6S3626

CONTRACT ID.

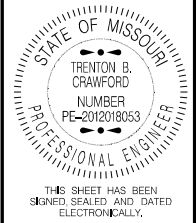
PROJECT NO.

BRIDGE NO. A9477

DESCRIPTION	DATE

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





DATE PREPARED
1/29/2025

ROUTE D STATE MO

DISTRICT BR SHEET NO. 3

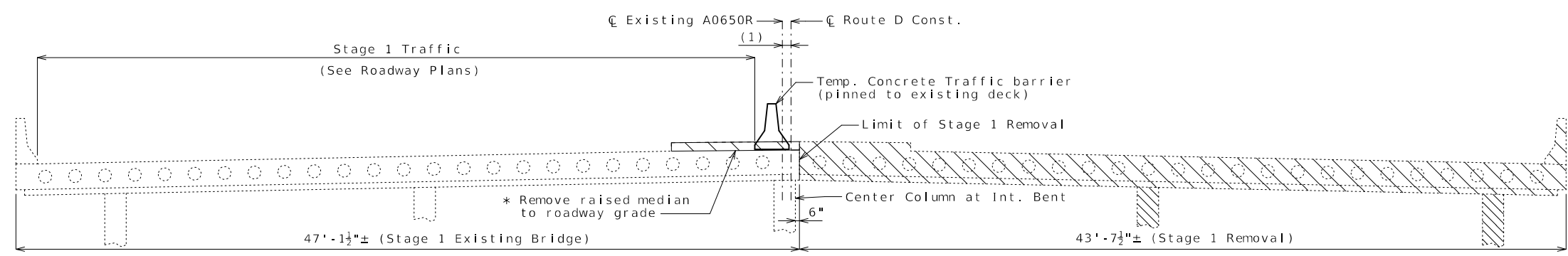
COUNTY
ST. LOUIS

JOB NO.
J6S3626

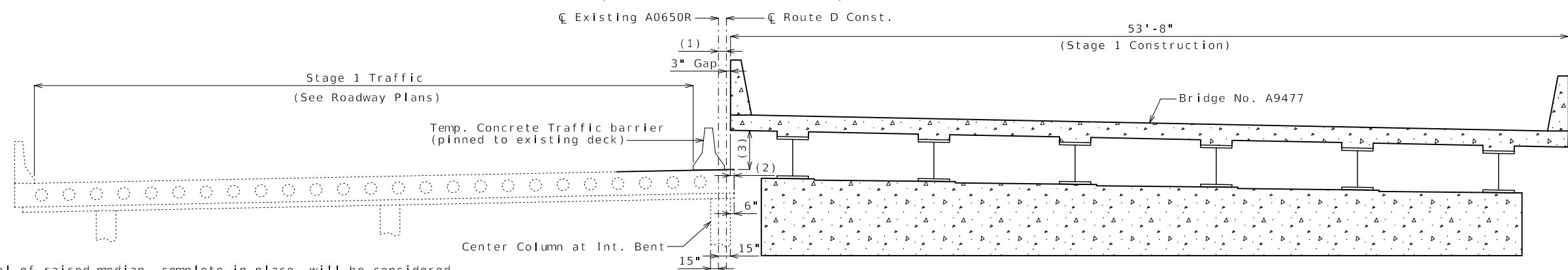
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9477



STAGE 1 REMOVAL
(Section Near Intermediate Bent)



STAGE 1 CONSTRUCTION
(Section Near Intermediate Bent)

Notes:

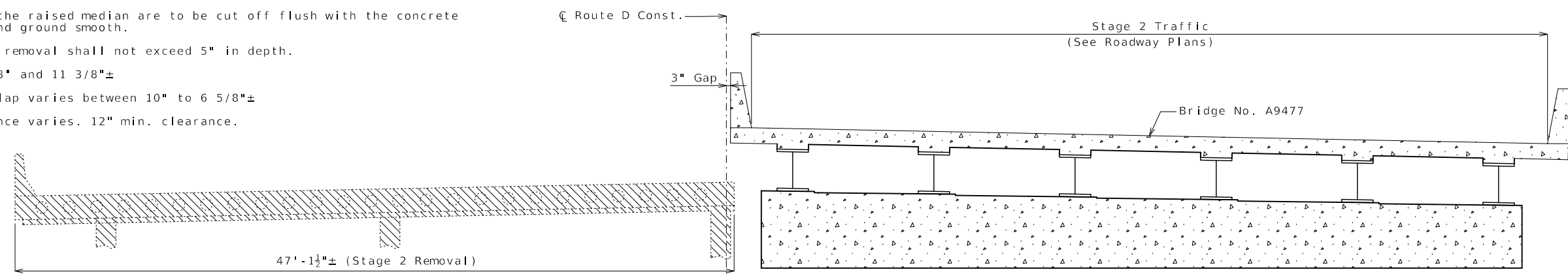
* The cost of removal of raised median, complete in place, will be considered completely covered by the unit price for Partial Removal of Raised Median Curb.

A smooth, level surface shall be provided at the removal line.

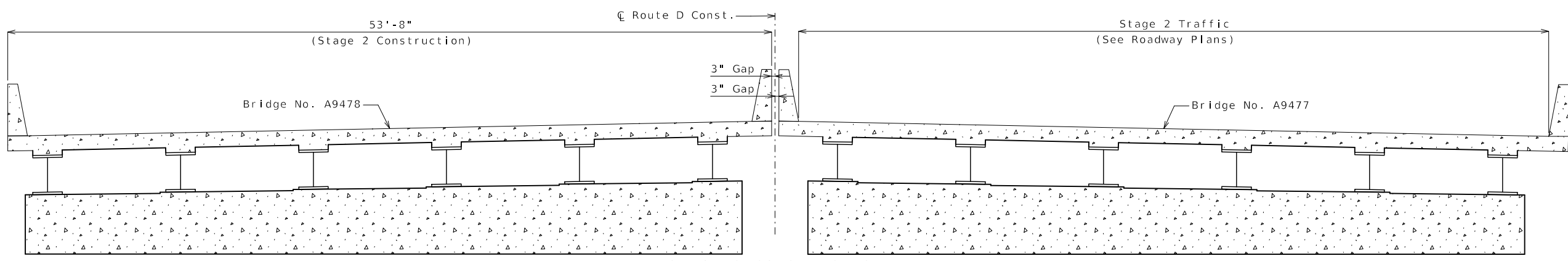
Vertical bars in the raised median are to be cut off flush with the concrete removal surface and ground smooth.

Maximum amount of removal shall not exceed 5" in depth.

- (1) Varies between 8" and 11 3/8"±
- (2) Horizontal overlap varies between 10" to 6 5/8"±
- (3) Vertical clearance varies. 12" min. clearance.



STAGE 2 REMOVAL
(Section Near Intermediate Bent)



STAGE 2 CONSTRUCTION
(Section Near Intermediate Bent)

STAGED CONSTRUCTION DETAILS
(Looking Ahead Station)

Detailed Oct. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

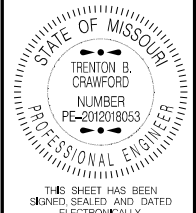
Sheet No. 3 of 35

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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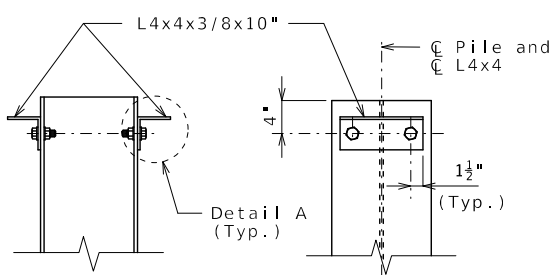


DATE PREPARED	1/29/2025
ROUTE	D
STATE	MO
DISTRICT	BR
SHEET NO.	4
COUNTY	ST. LOUIS
JOB NO.	J6S3626
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A9477

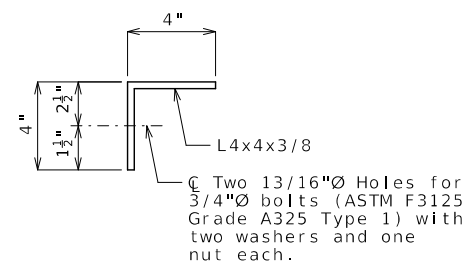
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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1-888-ASK-MODOT (1-888-275-6636)

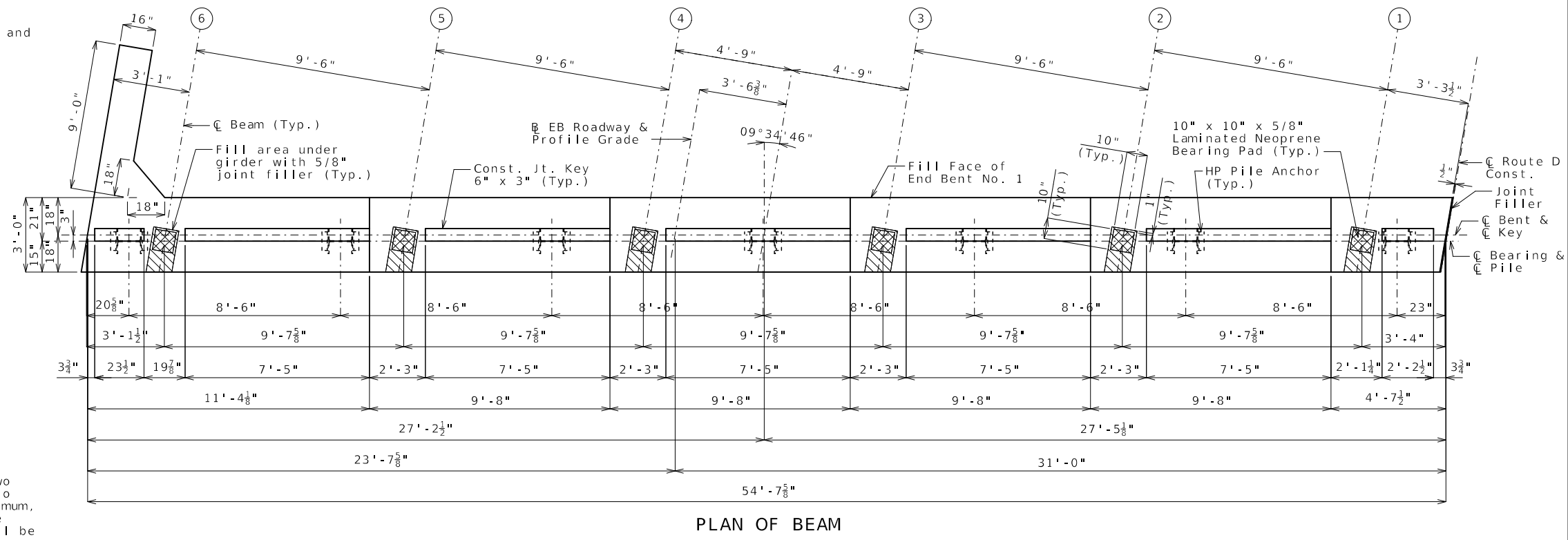


DETAILS OF HP PILE ANCHORS

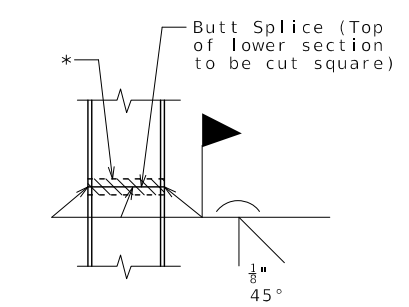


DETAIL A

Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

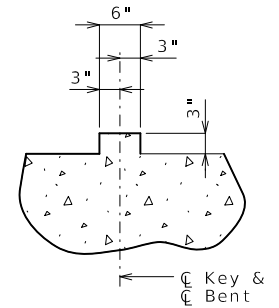


PLAN OF BEAM

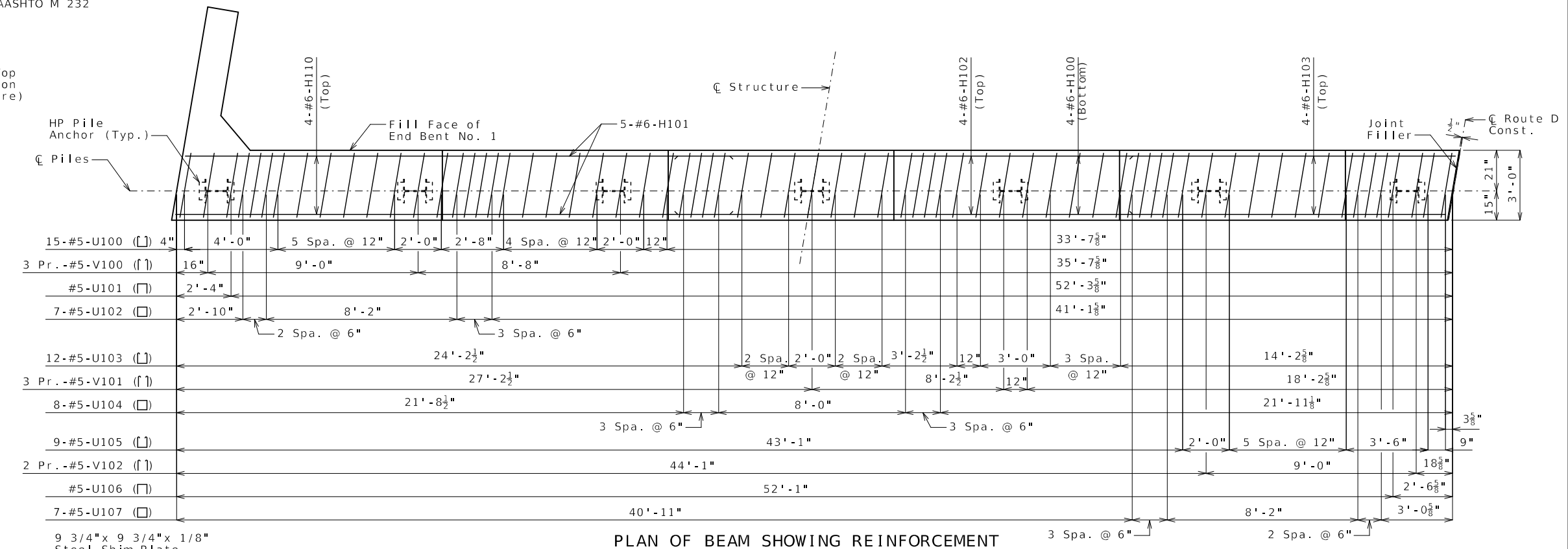


STEEL PILE SPLICE (If required)

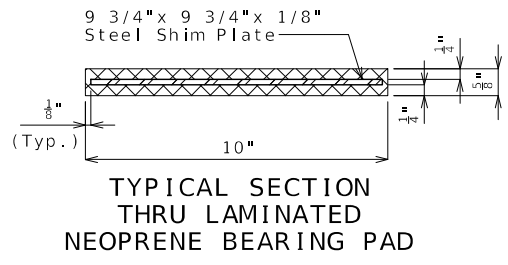
* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



SECTION THRU KEY



PLAN OF BEAM SHOWING REINFORCEMENT



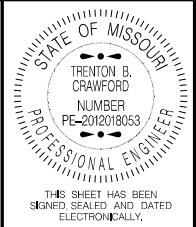
TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD

Notes:
 Work this sheet with Sheets No. 5 & 6.
 Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.
 The U bars and pairs of V bars shall be placed parallel to the centerline of roadway.

Item	Quantity
Class 1 Excavation	cu. yard 55
Galvanized Structural Steel Piles (12 in.)	linear foot 147
Pile Point Reinforcement	each 7
Class B Concrete (Substructure)	cu. yard 28.8

These quantities are included in the Estimated Quantities table on Sheet No. 2.

DETAILS OF END BENT NO. 1



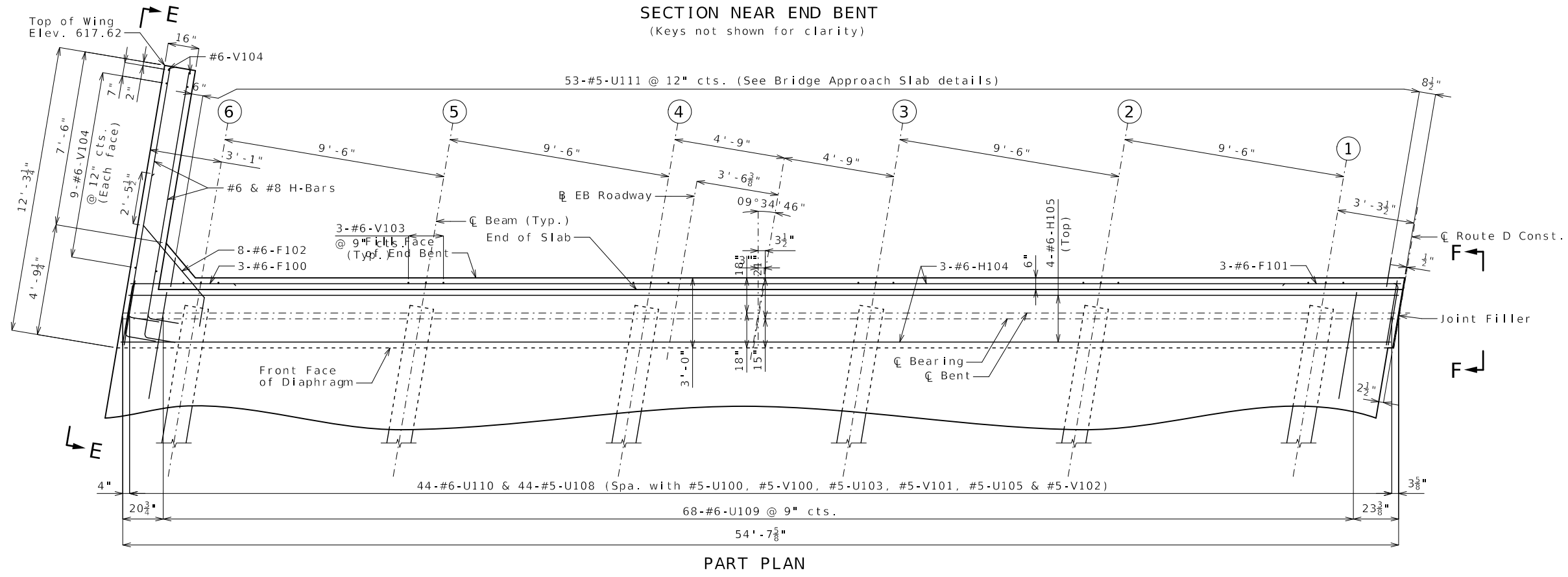
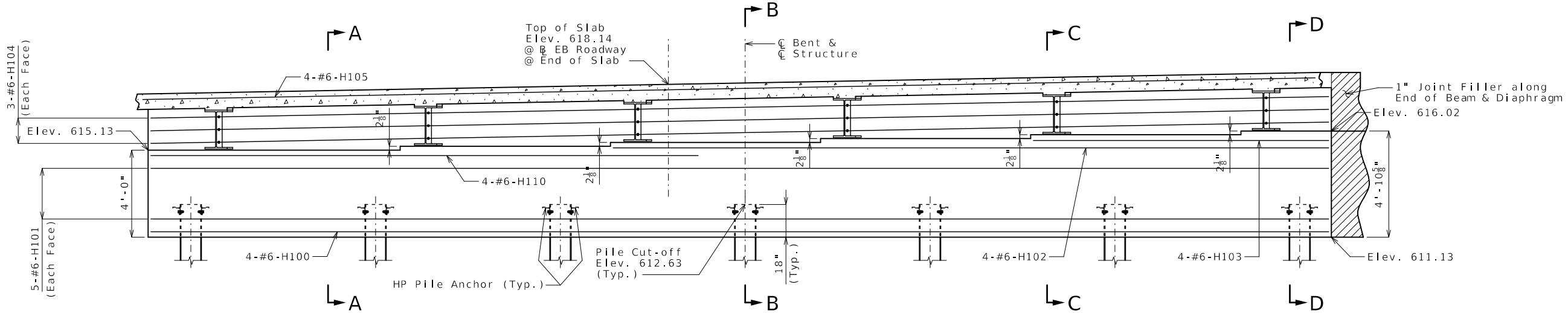
DATE PREPARED 1/29/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 5
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9477	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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



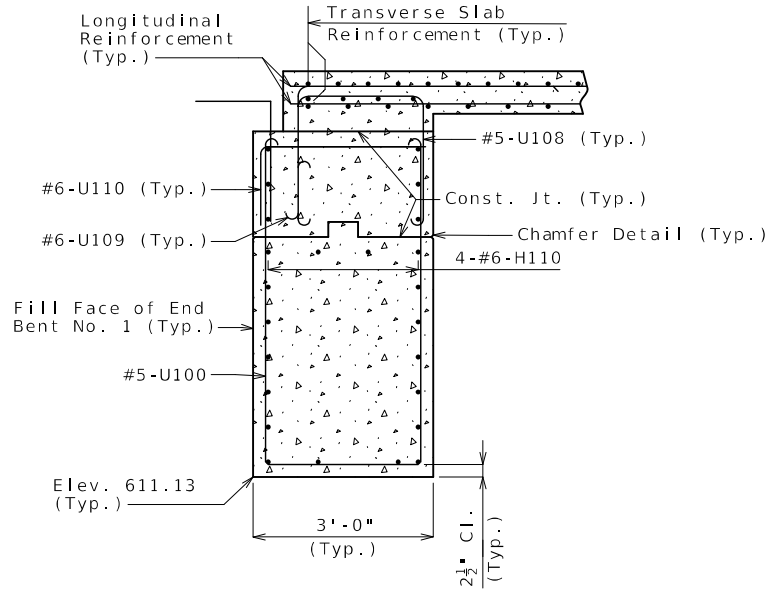
- Notes:
- Work this sheet with Sheets No. 4 & 6.
 - For details of vertical drain at end bents, see Sheet No. 7.
 - All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
 - For Sections A-A thru D-D and Elevations E-E & F-F, see Sheet No. 6.
 - For details of bridge approach slab, see Sheet No. 27.
 - Concrete diaphragms at the integral end bents shall be poured a minimum of 12 hours before slab is poured.
 - The #6-F102 bars shall be bent in the field to clear beams.
 - The U bars shall be placed parallel to centerline of roadway.

DETAILS OF END BENT NO. 1

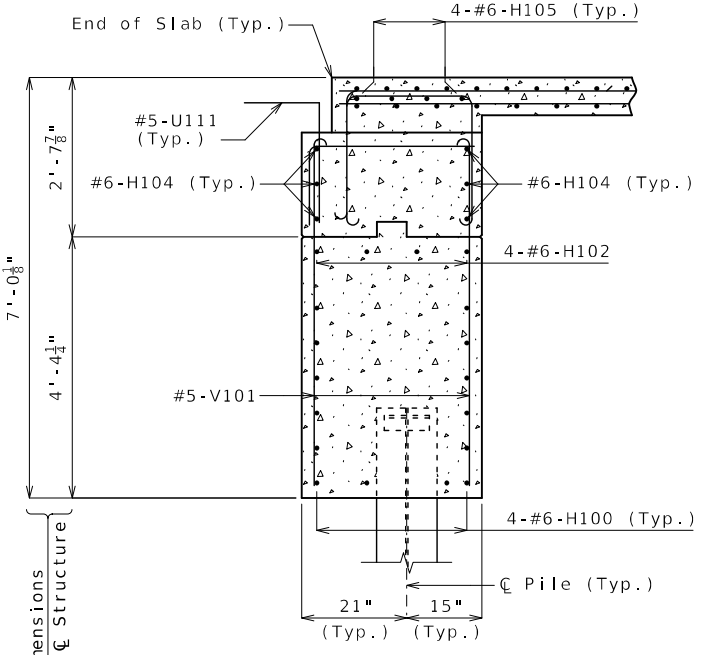
Detailed Oct. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

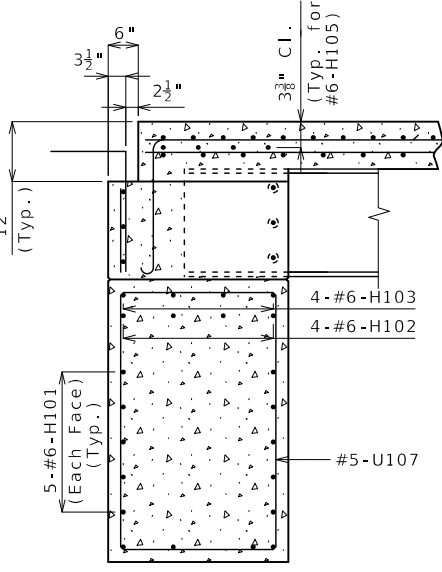
Sheet No. 5 of 35



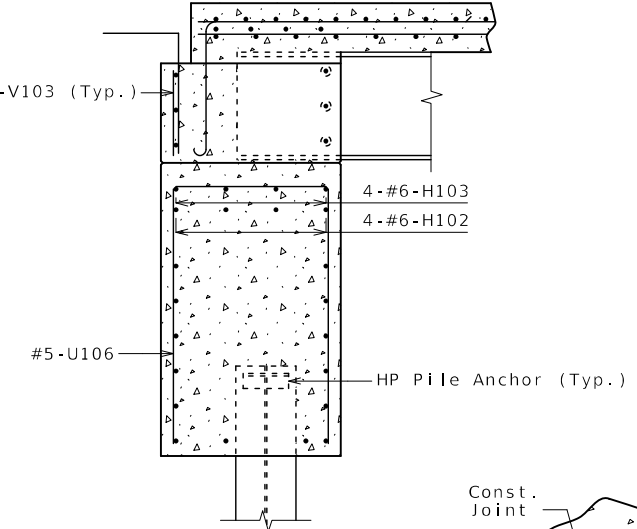
SECTION A-A



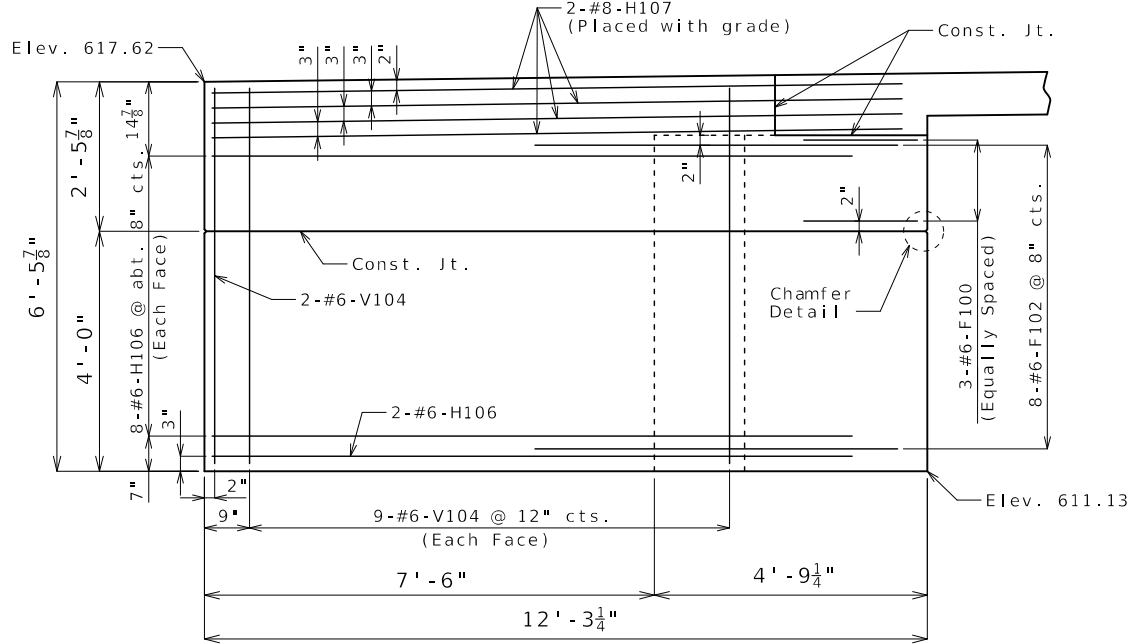
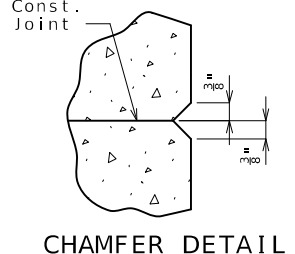
SECTION B-B



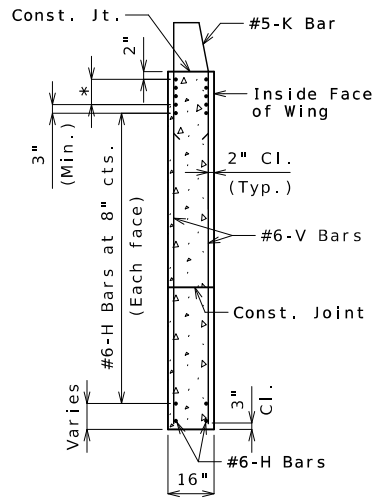
SECTION C-C



SECTION D-D

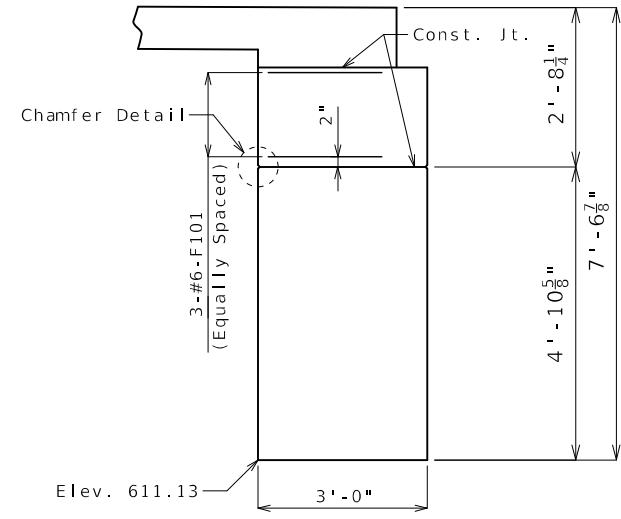


ELEVATION E-E



TYPICAL SECTION THRU WING

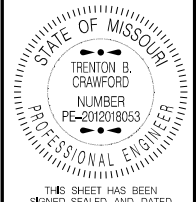
* #8-H Bars at 3" cts. (Each face) (Place with grade)



ELEVATION F-F

Notes:
 Work this sheet with Sheets No. 4 & 5.
 For reinforcement of the barrier, see Sheets No. 24, 25 & 26.

DETAILS OF END BENT NO. 1



DATE PREPARED 1/29/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9477	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/29/2025

ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 7

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

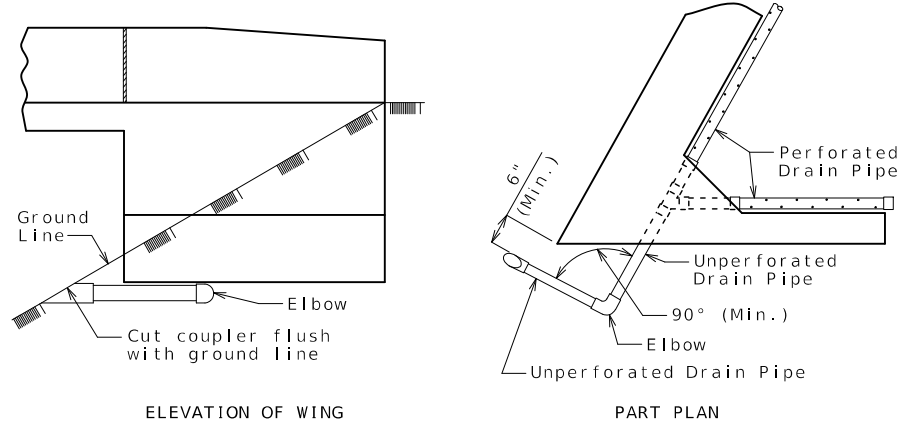
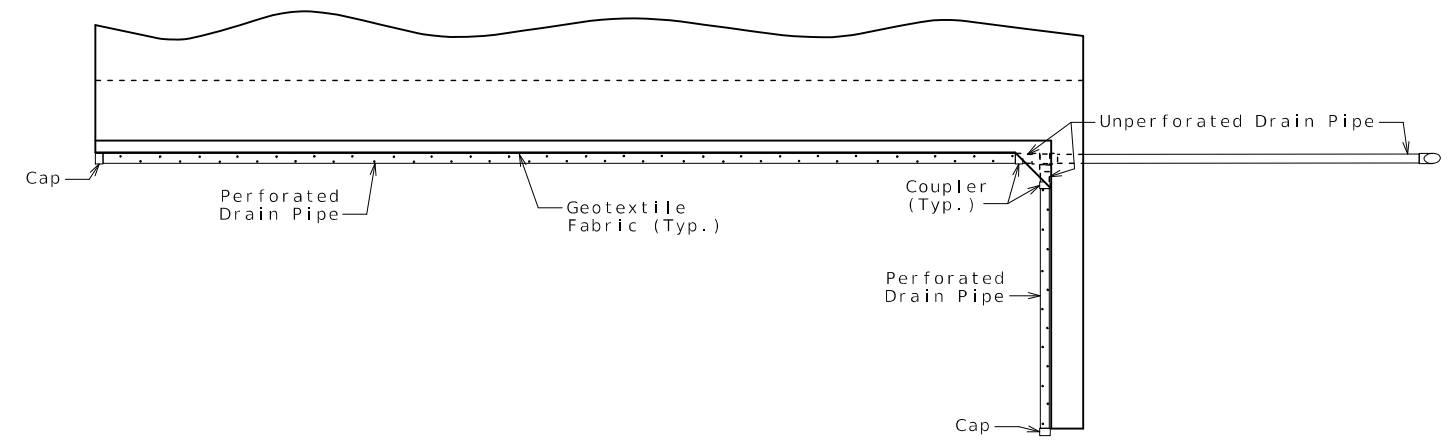
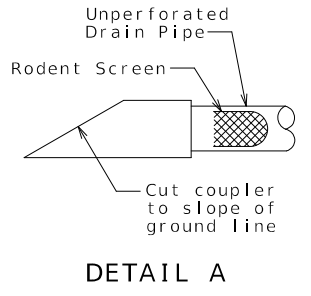
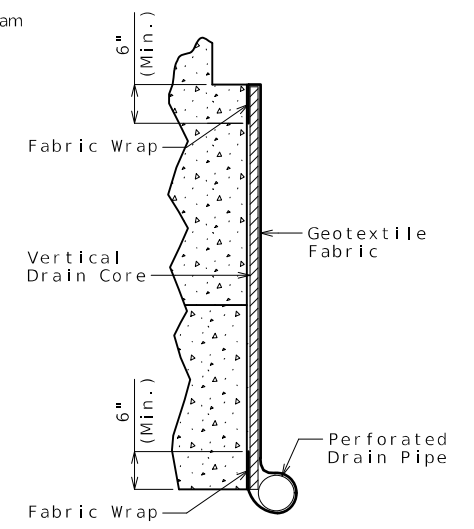
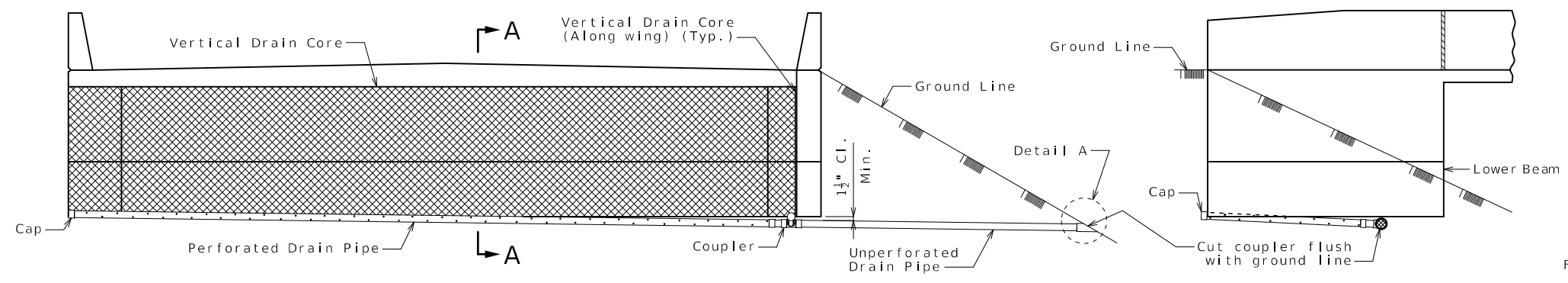
PROJECT NO.

BRIDGE NO.
A9477

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



General Notes:

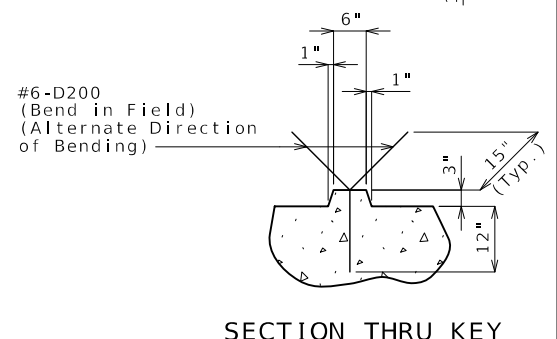
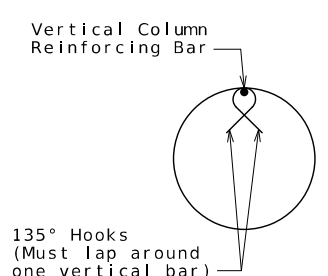
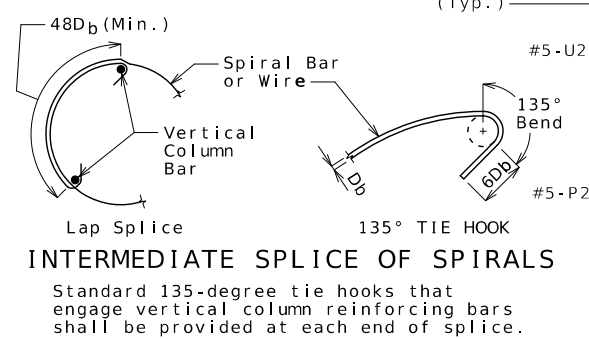
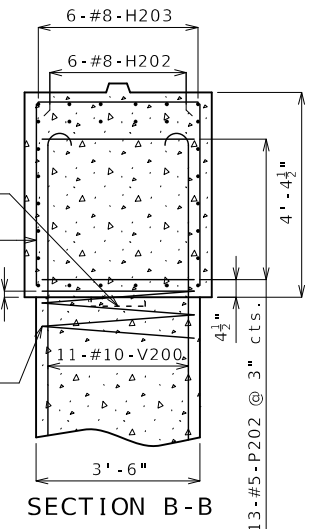
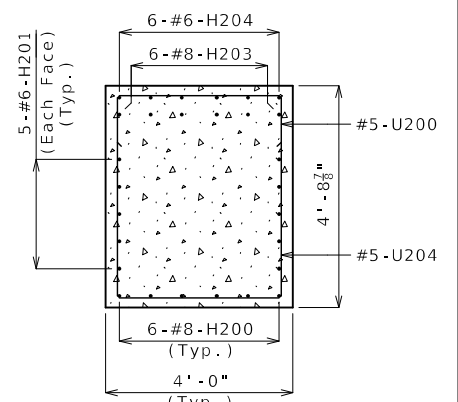
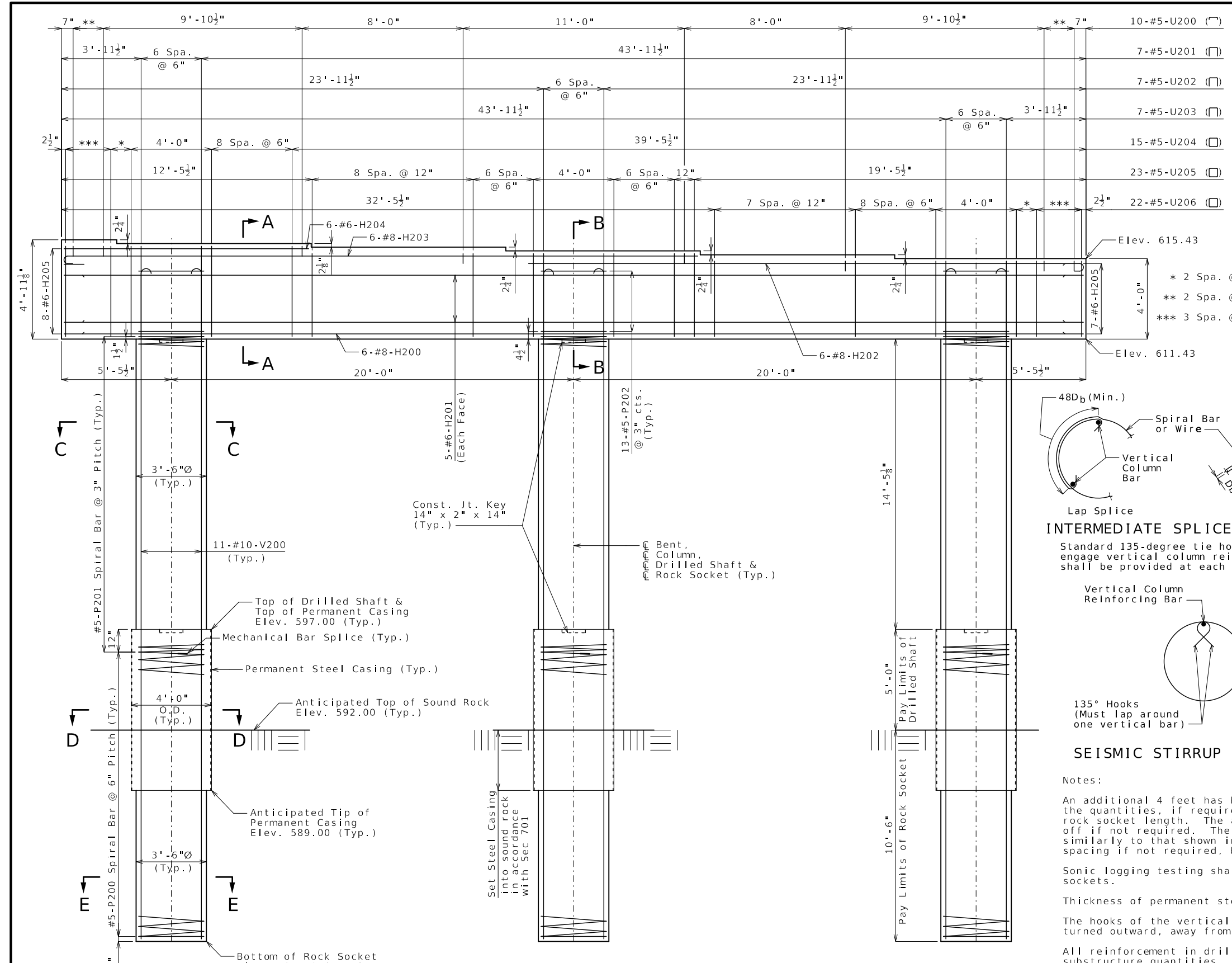
All drain pipe shall be sloped 1 to 2 percent.

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.

VERTICAL DRAIN AT END BENTS
(Squared end bent shown, skewed end bent similar)

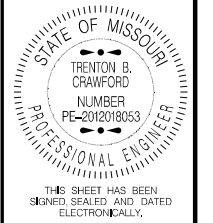


ELEVATION
 (Beam key not shown for clarity)

DETAILS OF INTERMEDIATE BENT NO. 2

Note: This drawing is not to scale. Follow dimensions. Sheet No. 8 of 35

Detailed Oct. 2024
 Checked Oct. 2024



DATE PREPARED 1/29/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 8
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	

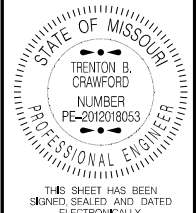
PROJECT NO.
BRIDGE NO. A9477

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Notes:
 An additional 4 feet has been added to the #10-V200 & #5-P200 lengths in the quantities, if required, for possible change in drilled shaft or rock socket length. The additional V-bar & P-bar lengths shall be cut off if not required. The additional P-bar length shall be spaced similarly to that shown in elevation, if required, or to a lesser spacing if not required, but not less than 6-inch centers.
 Sonic logging testing shall be performed on all drilled shafts and rock sockets.
 Thickness of permanent steel casing shall be in accordance with Sec 701.
 The hooks of the vertical bars embedded in the beam cap shall not be turned outward, away from the column core.
 All reinforcement in drilled shafts and rock sockets is included in the substructure quantities.
 Mechanical bar splices shall be stainless steel and in accordance with ASTM A1034.
 The tip of casing shall not extend into the rock socket elevation range reported in the Foundation Data Table without approval by the engineer.
 No intermediate splice of spirals is to occur above the top of drilled shaft.
 Work this sheet with Sheet No. 9.



DATE PREPARED
1/29/2025

ROUTE D STATE MO
DISTRICT BR SHEET NO. 9

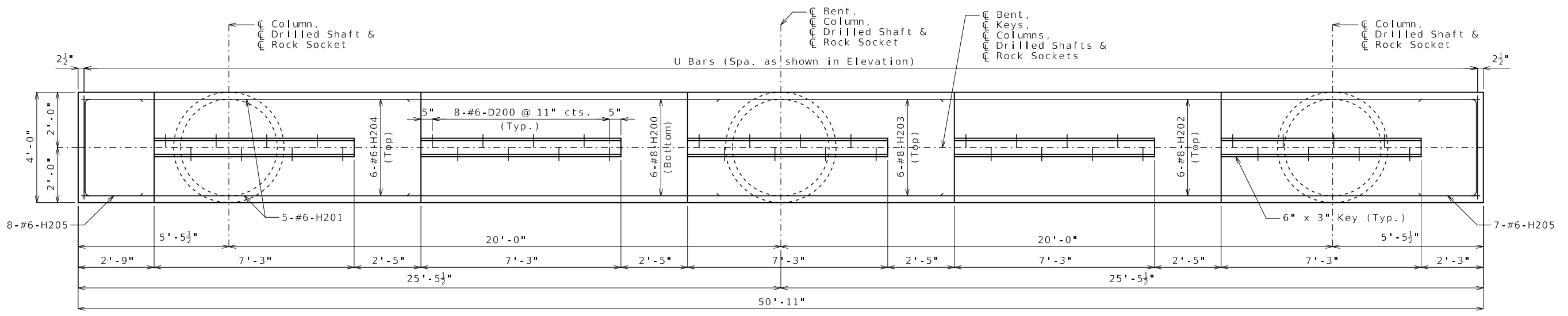
COUNTY
ST LOUIS

JOB NO.
J6S3626

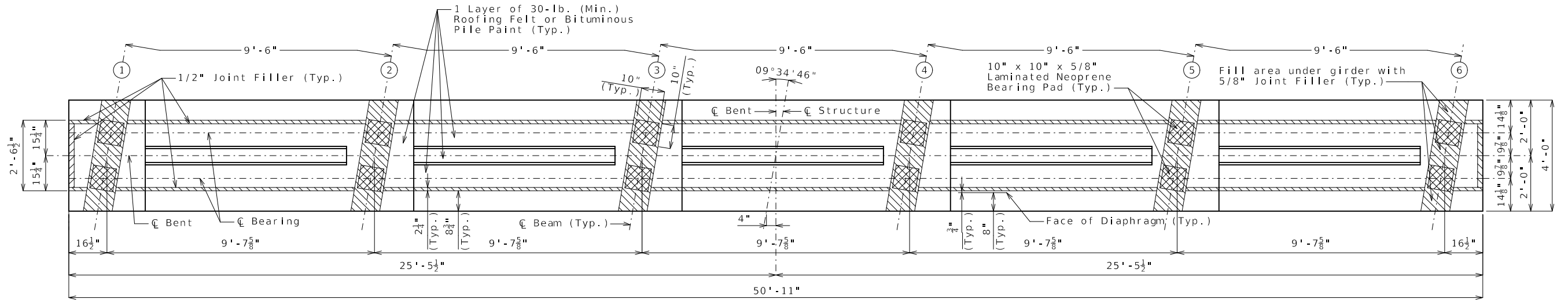
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9477



PLAN OF BEAM SHOWING REINFORCEMENT

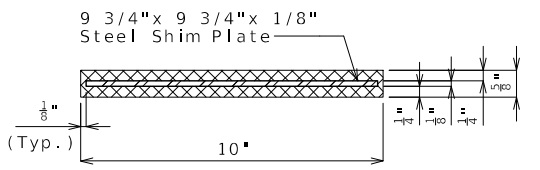


PLAN OF BEAM

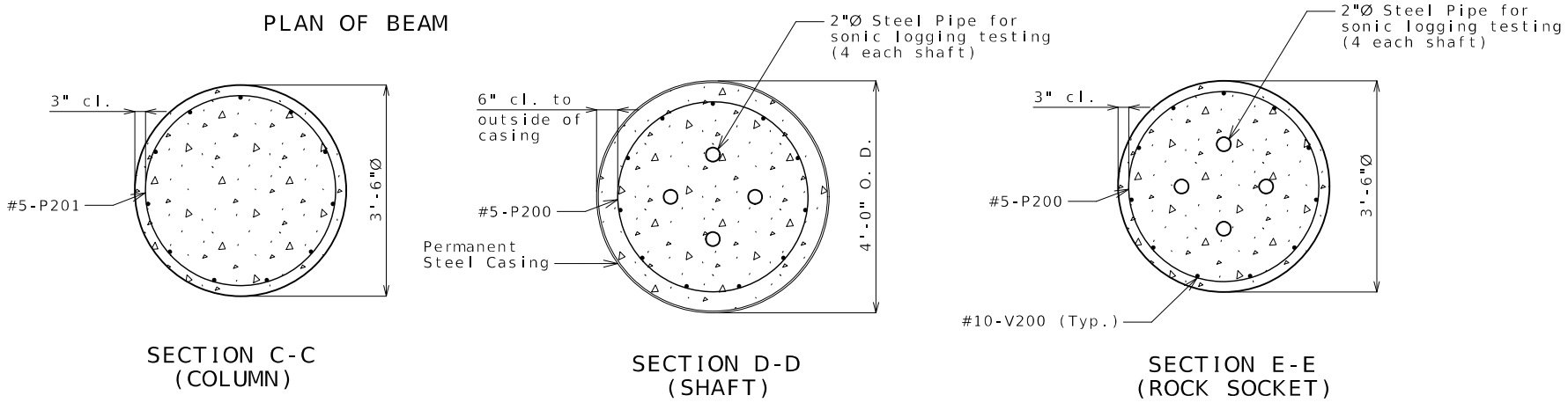
Substructure Quantity Table for Bent No. 2		
Item		Quantity
Drilled Shafts (4 ft. 0 in. Diameter)	linear foot	15.0
Rock Sockets (3 ft. 6 in. Diameter)	linear foot	31.5
Video Camera Inspection	each	3
Foundation Inspection Holes	linear foot	61.5
Sonic Logging Testing	each	3
Class B Concrete (Substructure)	cu. yard	48.8
Reinforcing Steel (Stainless Steel) (Bridges)	pound	13,210

These quantities are included in the Estimated Quantities table on Sheet No. 2.

All reinforcement in drilled shafts and rock sockets is included in the Substructure Quantities.



TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD



SECTION C-C (COLUMN)

SECTION D-D (SHAFT)

SECTION E-E (ROCK SOCKET)

Notes:
Work this sheet with Sheet No. 8.
For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

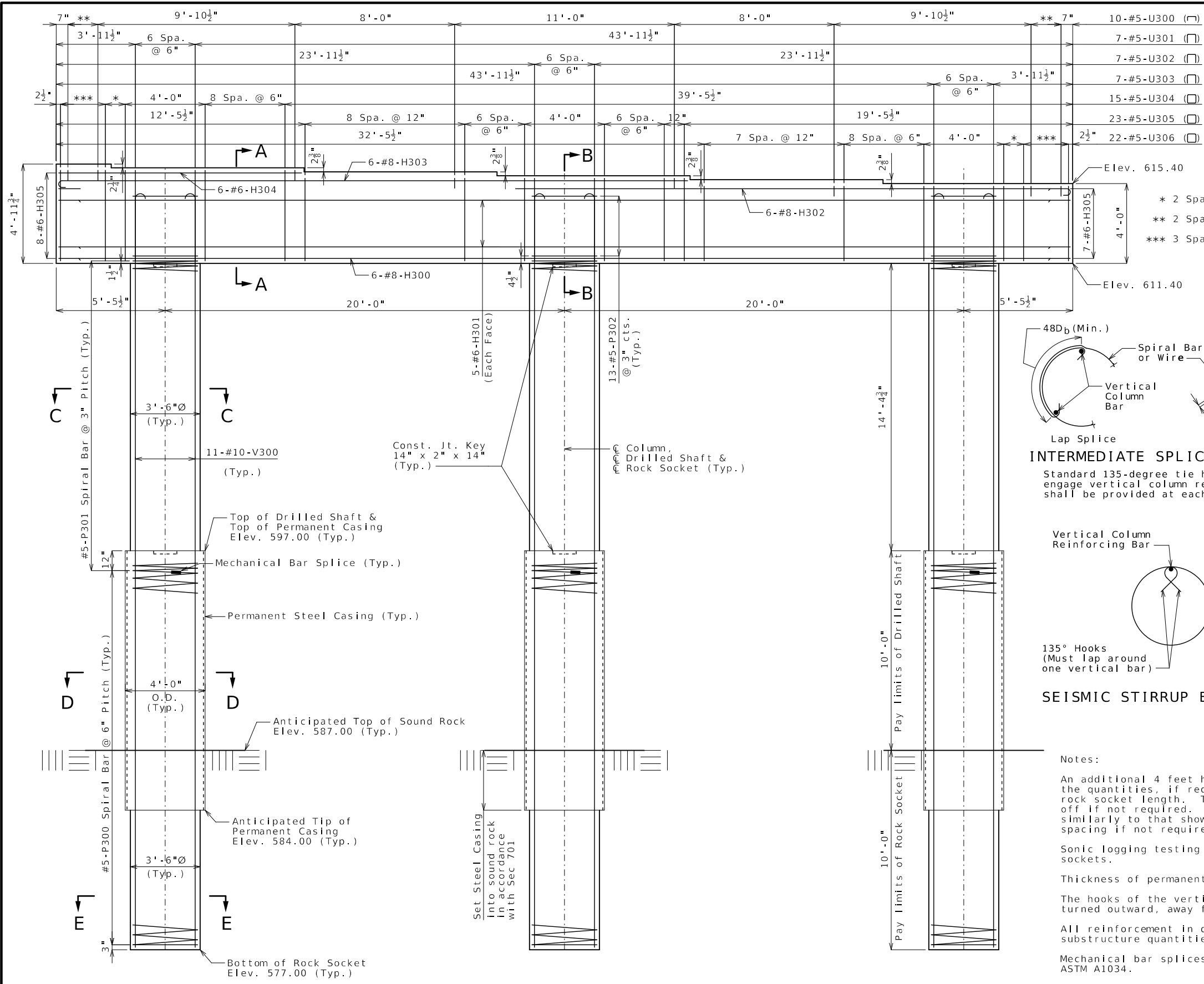
DETAILS OF INTERMEDIATE BENT NO. 2

DESCRIPTION

DATE

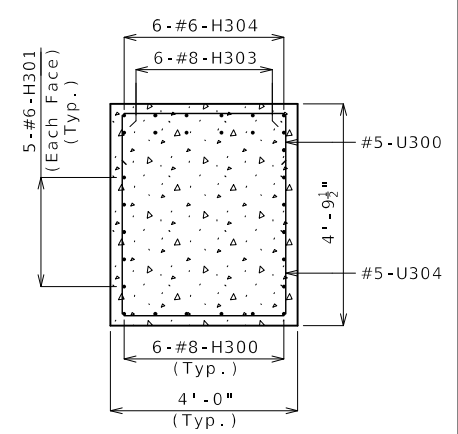
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

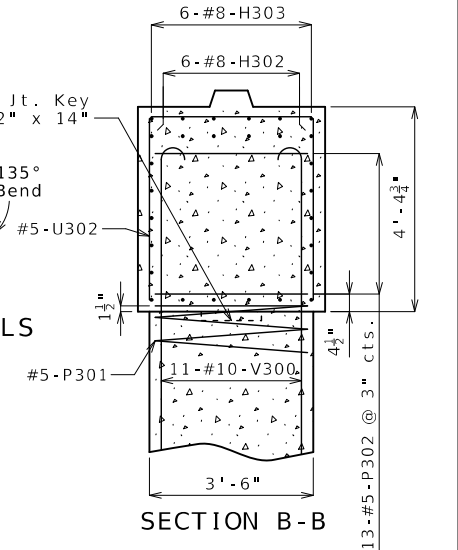


ELEVATION
(Beam key not shown for clarity)

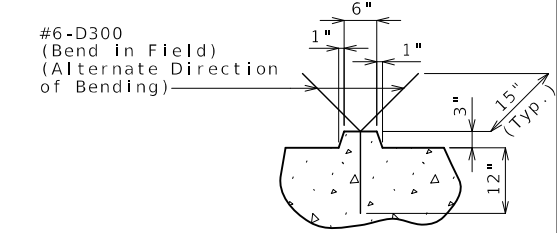
DETAILS OF INTERMEDIATE BENT NO. 3



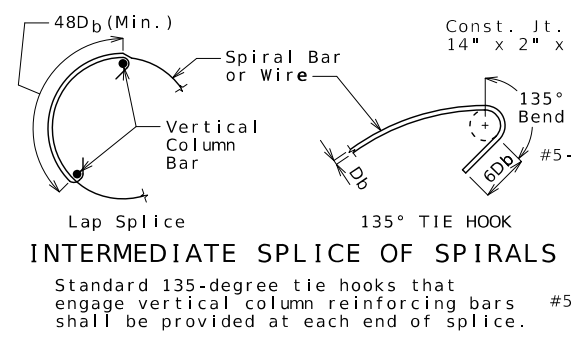
SECTION A-A



SECTION B-B

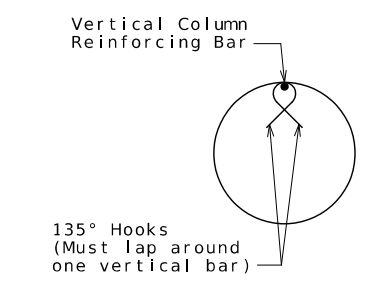


SECTION THRU KEY



INTERMEDIATE SPLICE OF SPIRALS

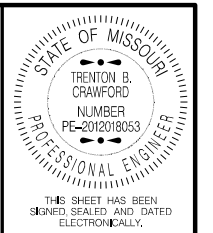
Standard 135-degree tie hooks that engage vertical column reinforcing bars shall be provided at each end of splice.



SEISMIC STIRRUP BAR

Notes:

- An additional 4 feet has been added to the #10-V300 & #5-P300 lengths in the quantities, if required, for possible change in drilled shaft or rock socket length. The additional V-bar & P-bar lengths shall be cut off if not required. The additional P-bar length shall be spaced similarly to that shown in elevation, if required, or to a lesser spacing if not required, but not less than 6-inch centers.
- Sonic logging testing shall be performed on all drilled shafts and rock sockets.
- Thickness of permanent steel casing shall be in accordance with Sec 701.
- The hooks of the vertical bars embedded in the beam cap shall not be turned outward, away from the column core.
- All reinforcement in drilled shafts and rock sockets is included in the substructure quantities.
- Mechanical bar splices shall be stainless steel and in accordance with ASTM A1034.
- The tip of casing shall not extend into the rock socket elevation range reported in the Foundation Data Table without approval by the engineer.
- No intermediate splice of spirals is to occur above the top of drilled shaft.
- Work this sheet with Sheet No. 11.



DATE PREPARED 1/29/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 10
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9477	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
1/29/2025

ROUTE D STATE MO

DISTRICT BR SHEET NO. 11

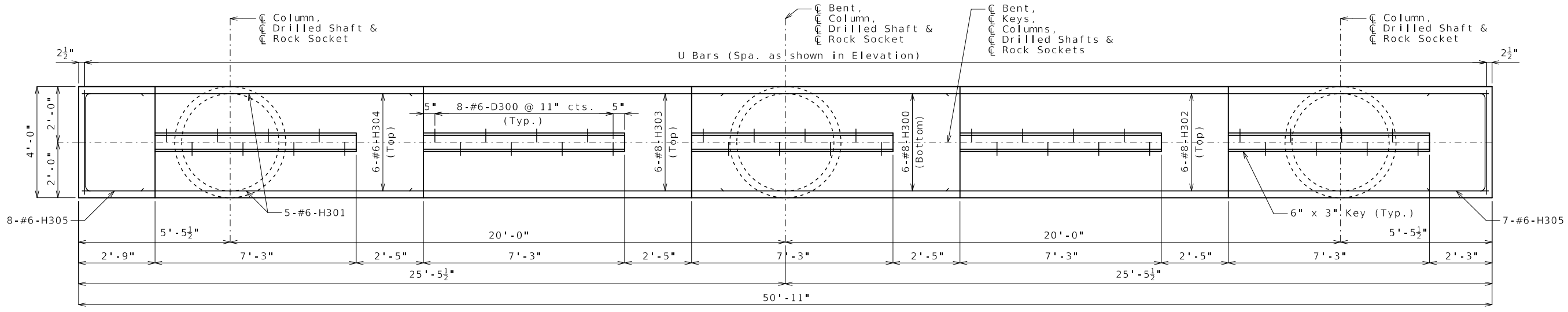
COUNTY
ST. LOUIS

JOB NO.
J6S3626

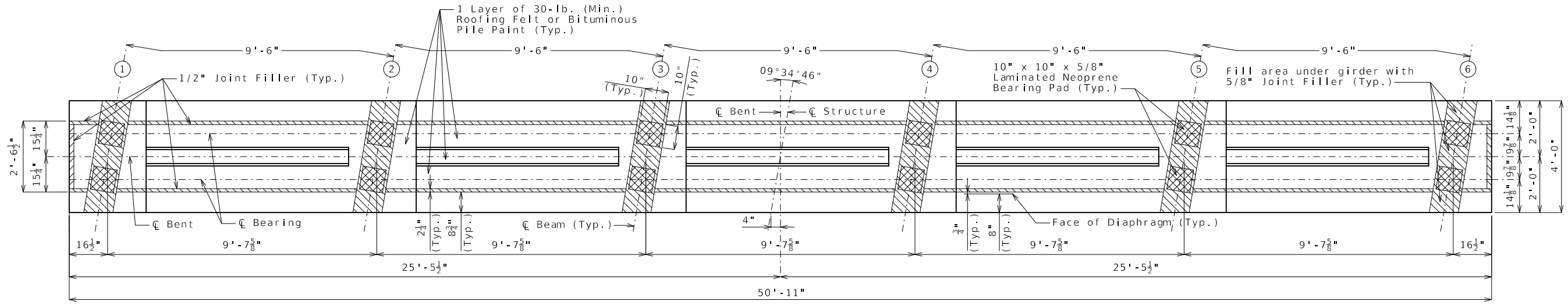
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9477



PLAN OF BEAM SHOWING REINFORCEMENT

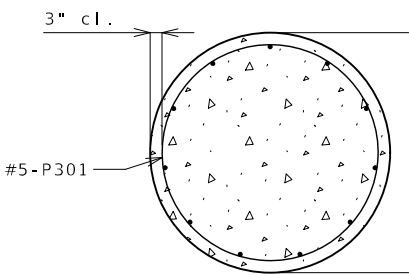


PLAN OF BEAM

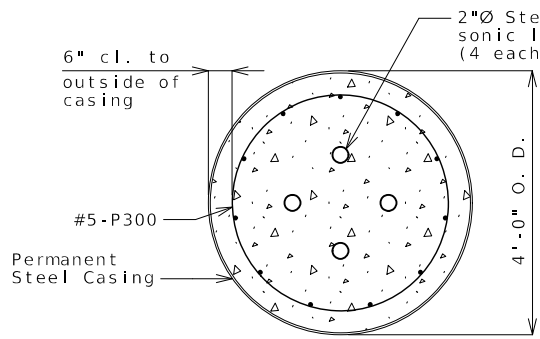
Substructure Quantity Table for Bent No. 3		
Item		Quantity
Drilled Shafts (4 ft. 0 in. Diameter)	linear foot	30.0
Rock Sockets (3 ft. 6 in. Diameter)	linear foot	30.0
Video Camera Inspection	each	3
Foundation Inspection Holes	linear foot	60.0
Sonic Logging Testing	each	3
Class B Concrete (Substructure)	cu. yard	49.0
Reinforcing Steel (Stainless Steel) (Bridges)	pound	14,100

These quantities are included in the Estimated Quantities table on Sheet No. 2.

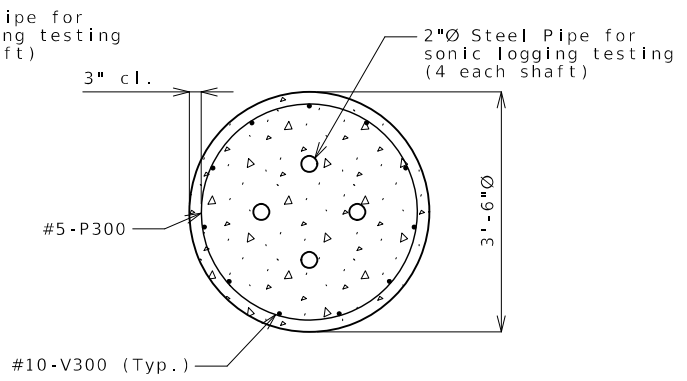
All reinforcement in drilled shafts and rock sockets is included in the Substructure Quantities.



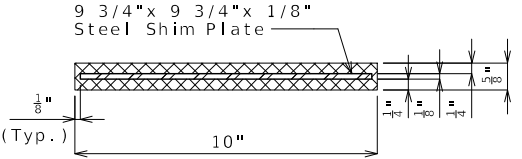
SECTION C-C (COLUMN)



SECTION D-D (SHAFT)



SECTION E-E (ROCK SOCKET)



TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD

Notes:
Work this sheet with Sheet No. 10.
For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

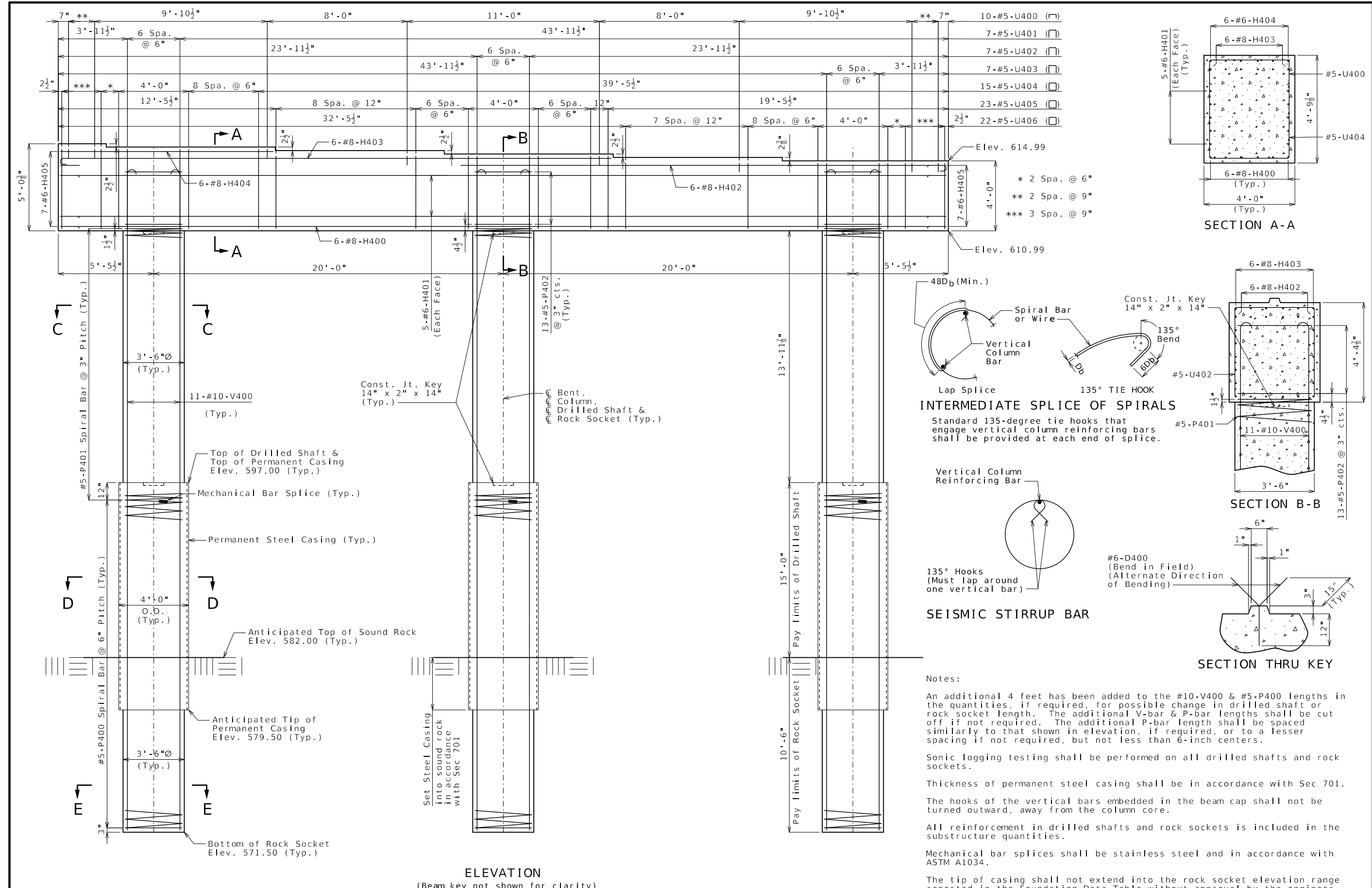
DETAILS OF INTERMEDIATE BENT NO. 3

DESCRIPTION

DATE

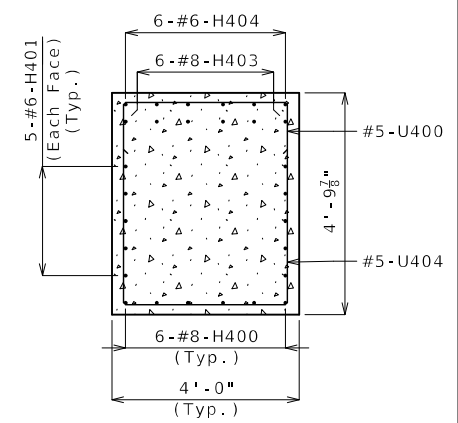
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

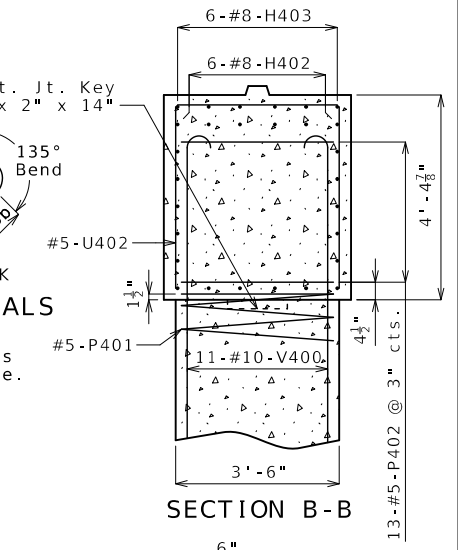


ELEVATION
(Beam key not shown for clarity)

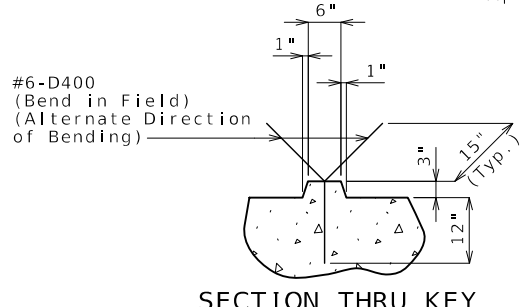
DETAILS OF INTERMEDIATE BENT NO. 4



SECTION A-A



SECTION B-B



SECTION THRU KEY

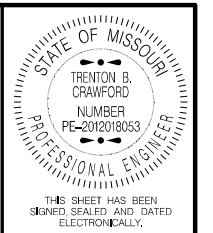
INTERMEDIATE SPLICE OF SPIRALS

Standard 135-degree tie hooks that engage vertical column reinforcing bars shall be provided at each end of splice.

SEISMIC STIRRUP BAR

135° Hooks (Must lap around one vertical bar)

- Notes:
- An additional 4 feet has been added to the #10-V400 & #5-P400 lengths in the quantities, if required, for possible change in drilled shaft or rock socket length. The additional V-bar & P-bar lengths shall be cut off if not required. The additional P-bar length shall be spaced similarly to that shown in elevation, if required, or to a lesser spacing if not required, but not less than 6-inch centers.
 - Sonic logging testing shall be performed on all drilled shafts and rock sockets.
 - Thickness of permanent steel casing shall be in accordance with Sec 701.
 - The hooks of the vertical bars embedded in the beam cap shall not be turned outward, away from the column core.
 - All reinforcement in drilled shafts and rock sockets is included in the substructure quantities.
 - Mechanical bar splices shall be stainless steel and in accordance with ASTM A1034.
 - The tip of casing shall not extend into the rock socket elevation range reported in the Foundation Data Table without approval by the engineer.
 - No intermediate splice of spirals is to occur above the top of drilled shaft.
 - Work this sheet with Sheet No. 13.



DATE PREPARED		1/29/2025	
ROUTE	D	STATE	MO
DISTRICT	BR	SHEET NO.	12
COUNTY			
ST. LOUIS			
JOB NO.			
J6S3626			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A9477			

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/29/2025

ROUTE D STATE MO
DISTRICT BR SHEET NO. 13

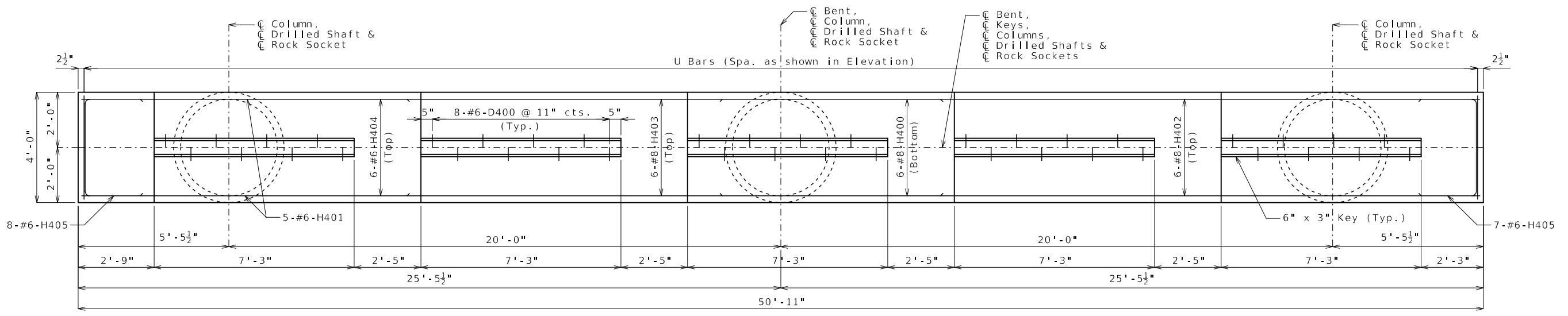
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

PROJECT NO.

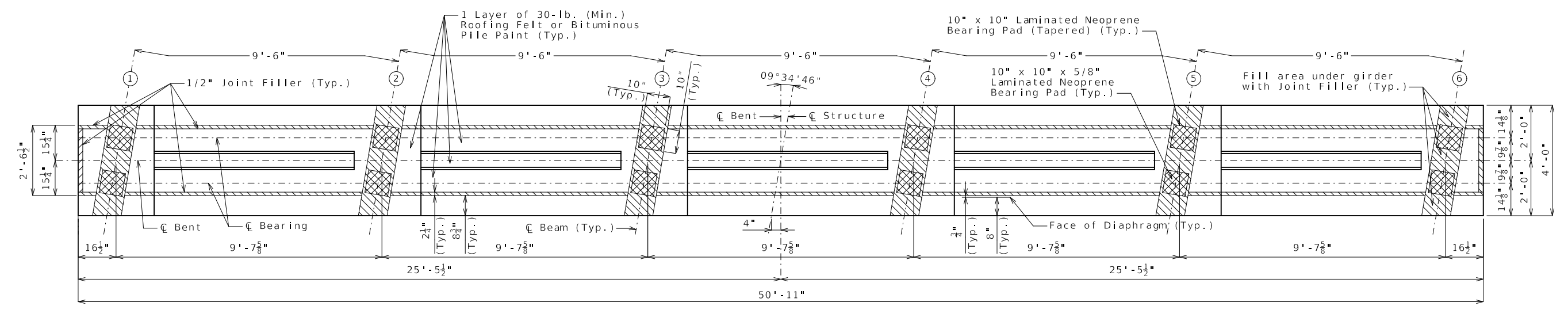
BRIDGE NO. A9477

DATE	DESCRIPTION

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



PLAN OF BEAM SHOWING REINFORCEMENT

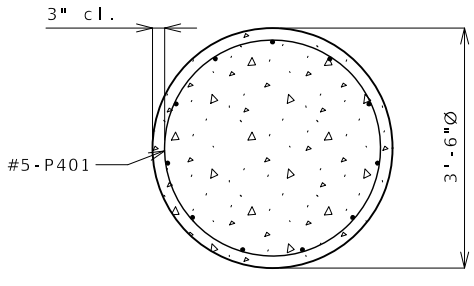


PLAN OF BEAM

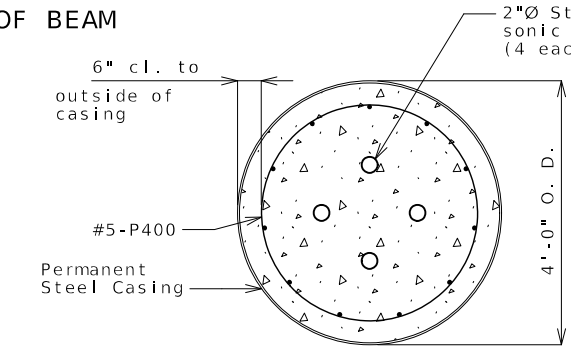
Item	Quantity
Drilled Shafts (4 ft. 0 in. Diameter)	linear foot 45.0
Rock Sockets (3 ft. 6 in. Diameter)	linear foot 31.5
Video Camera Inspection	each 3
Foundation Inspection Holes	linear foot 61.5
Sonic Logging Testing	each 3
Class B Concrete (Substructure)	cu. yard 48.6
Reinforcing Steel (Stainless Steel) (Bridges)	pound 15,100

These quantities are included in the Estimated Quantities table on Sheet No. 2.

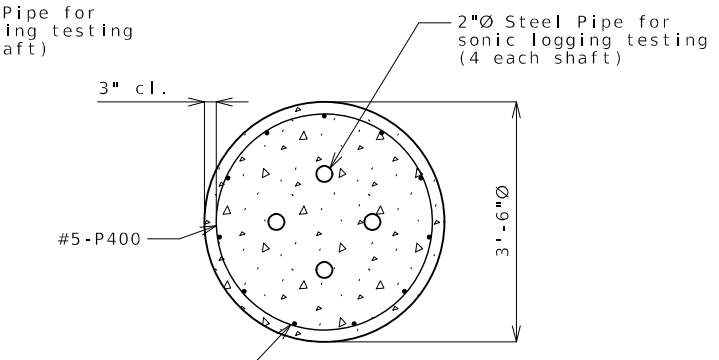
All reinforcement in drilled shafts and rock sockets is included in the Substructure Quantities.



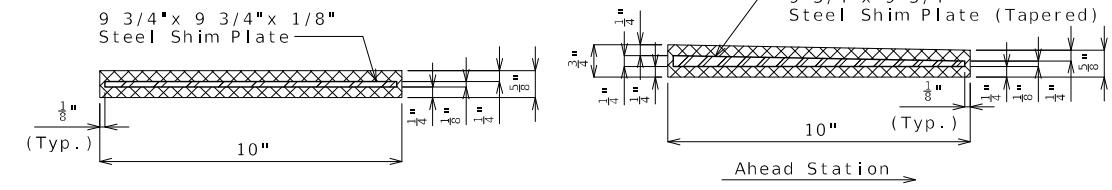
SECTION C-C (COLUMN)



SECTION D-D (SHAFT)



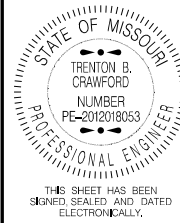
SECTION E-E (ROCK SOCKET)



BENT 4 SPAN (3-4) BENT 4 SPAN (4-5) (TAPERED)

Notes:
Work this sheet with Sheet No. 12.
For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD DETAILS OF INTERMEDIATE BENT NO. 4



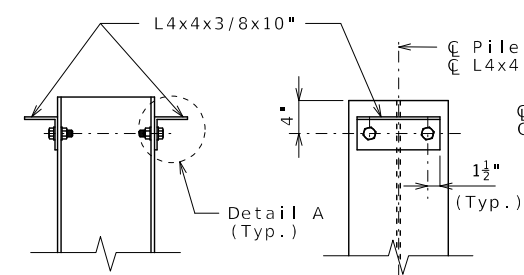
DATE PREPARED
1/29/2025

ROUTE D STATE MO
DISTRICT BR SHEET NO. 14

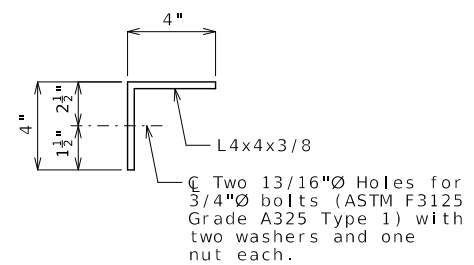
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9477

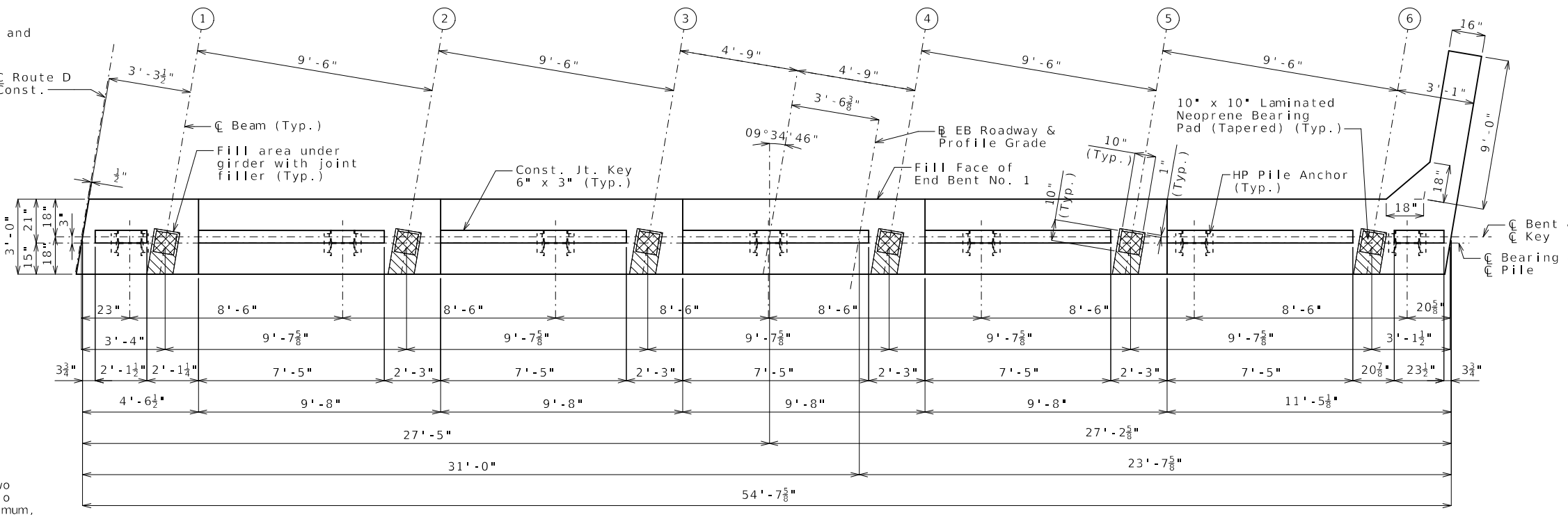


DETAILS OF HP PILE ANCHORS

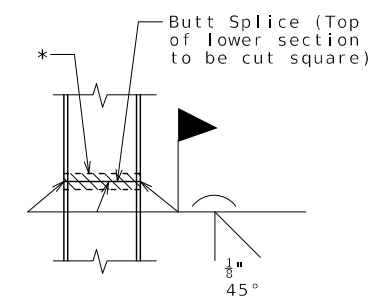


DETAIL A

Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

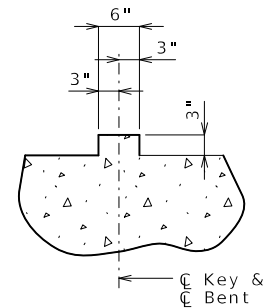


PLAN OF BEAM

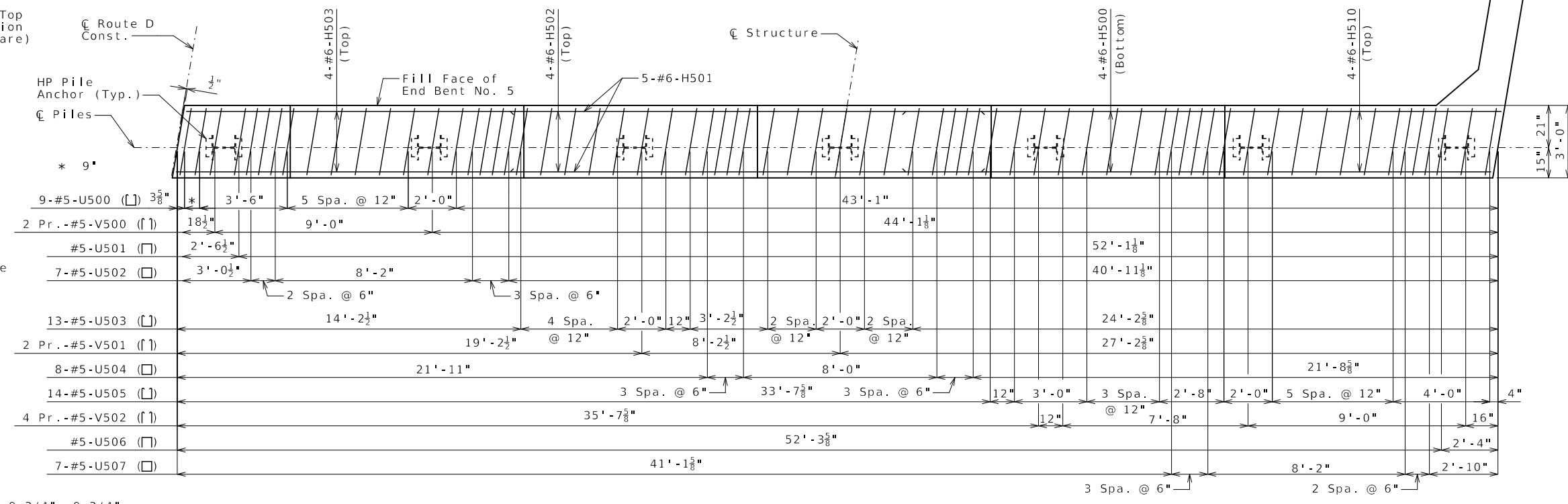


STEEL PILE SPLICE
(If required)

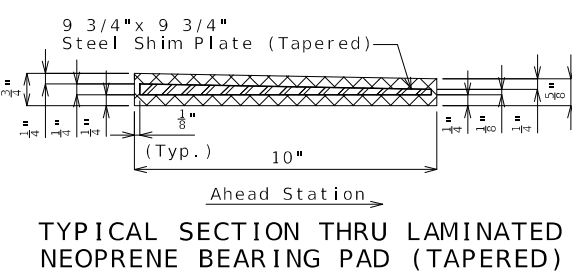
* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



SECTION THRU KEY



PLAN OF BEAM SHOWING REINFORCEMENT



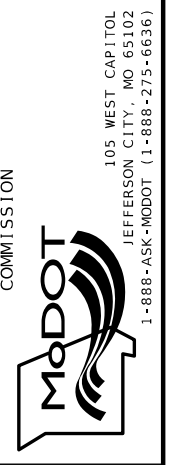
TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)

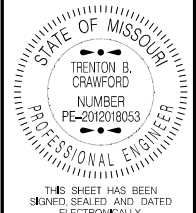
Notes:
Work this sheet with Sheets No. 15 & 16.
Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.
The U bars and pairs of V bars shall be placed parallel to the centerline of roadway.

Substructure Quantity Table for Bent No. 5		
Item	Quantity	
Class 1 Excavation	cu. yard	55
Galvanized Structural Steel Piles (12 in.)	linear foot	308
Pile Point Reinforcement	each	7
Class B Concrete (Substructure)	cu. yard	29.3

These quantities are included in the Estimated Quantities table on Sheet No. 2.

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ROUTE D STATE MO
DISTRICT BR SHEET NO. 15

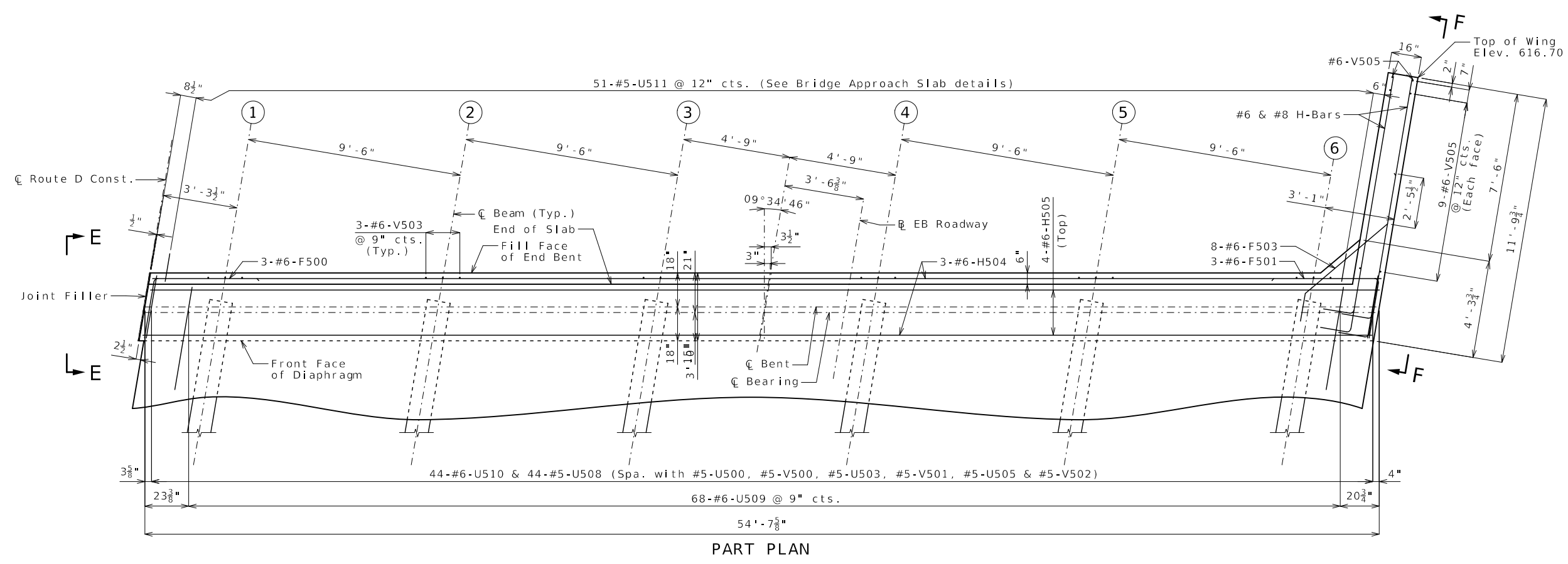
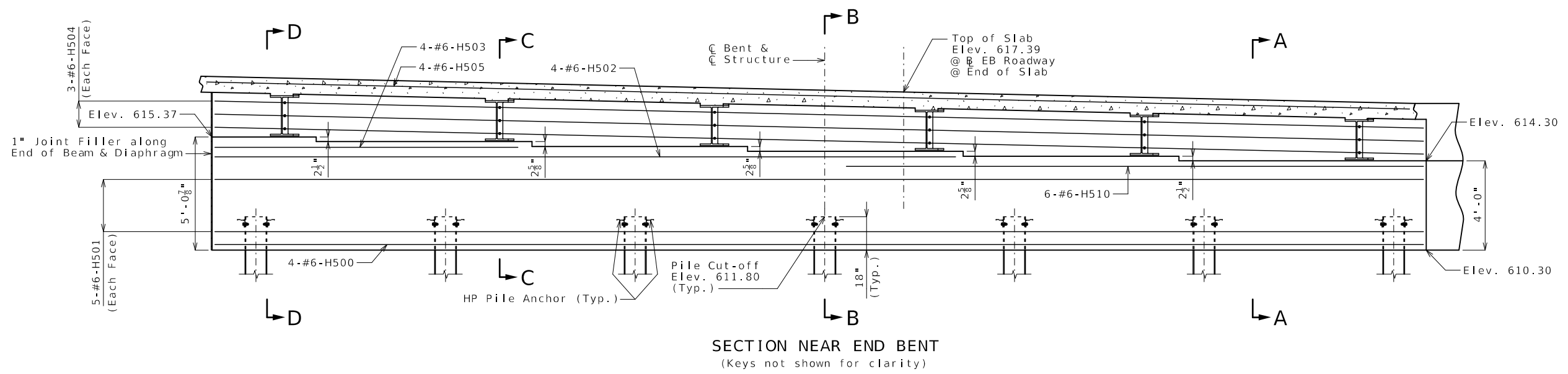
COUNTY
ST. LOUIS

JOB NO.
J6S3626

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PROJECT NO.

BRIDGE NO.
A9477



- Notes:
- Work this sheet with Sheets No. 14 & 16.
 - For details of vertical drain at end bents, see Sheet No. 7.
 - All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
 - For Sections A-A thru D-D and Elevations E-E & F-F, see Sheet No. 16.
 - For details of bridge approach slab, see Sheet No. 27.
 - Concrete diaphragms at the integral end bents shall be poured a minimum of 12 hours before slab is poured.
 - The #6-F503 bars shall be bent in the field to clear beams.
 - The U bars shall be placed parallel to centerline of roadway.

DETAILS OF END BENT NO. 5

Detailed Oct. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 35

DESCRIPTION	DATE

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1/29/2025

ROUTE D STATE MO

DISTRICT BR SHEET NO. 16

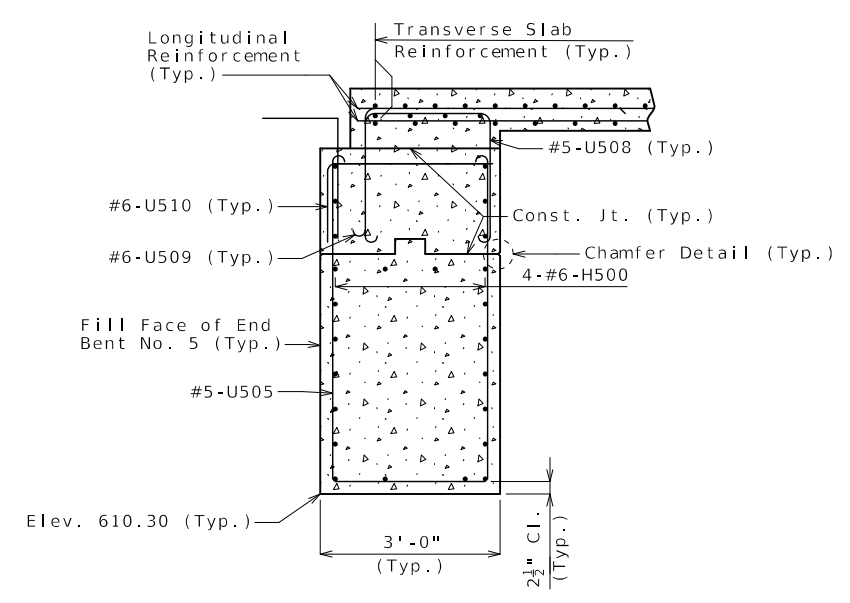
COUNTY
ST. LOUIS

JOB NO.
J6S3626

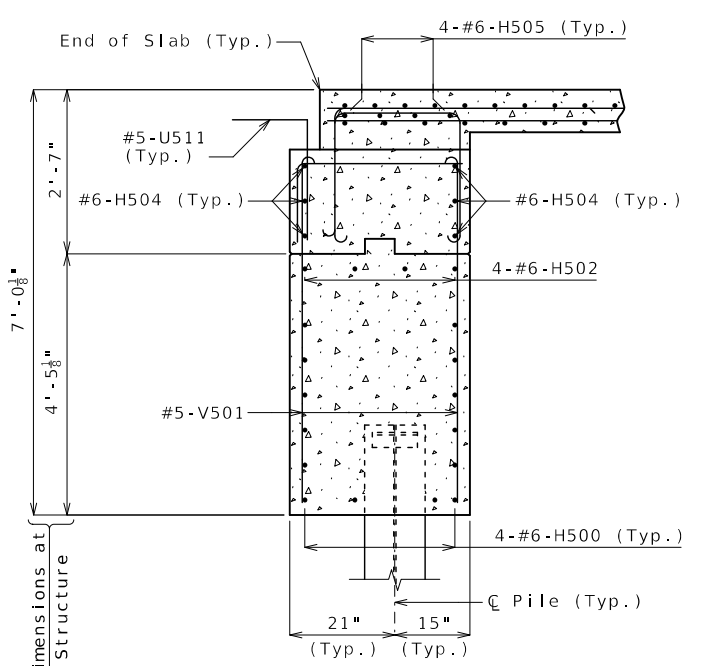
CONTRACT ID.

PROJECT NO.

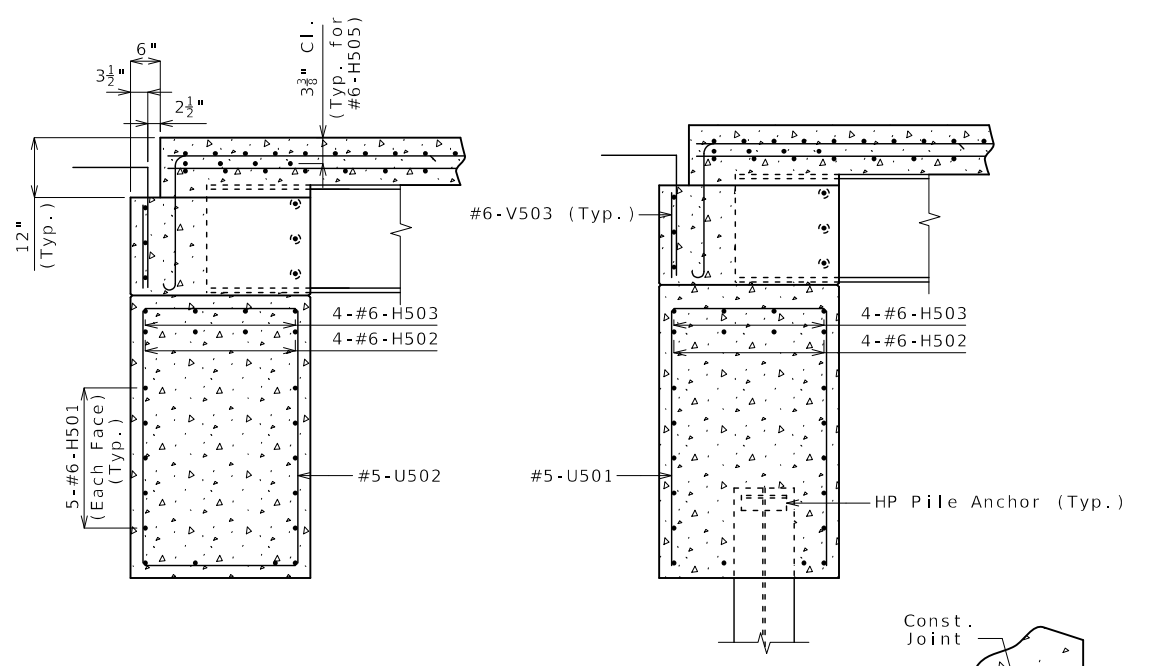
BRIDGE NO.
A9477



SECTION A-A



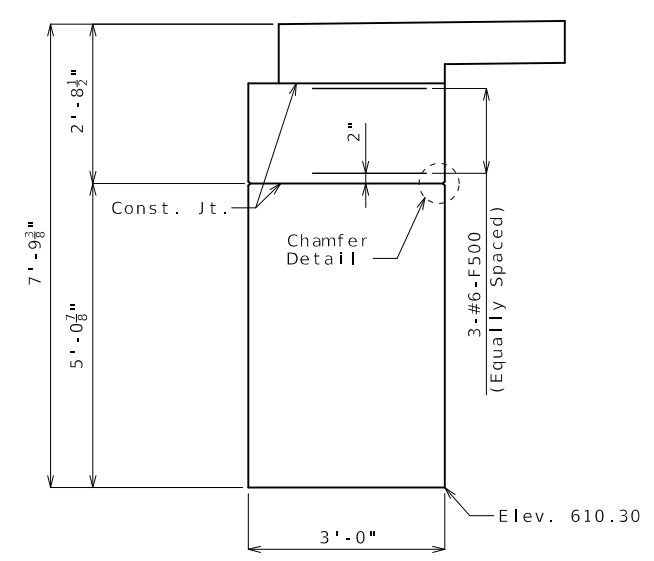
SECTION B-B



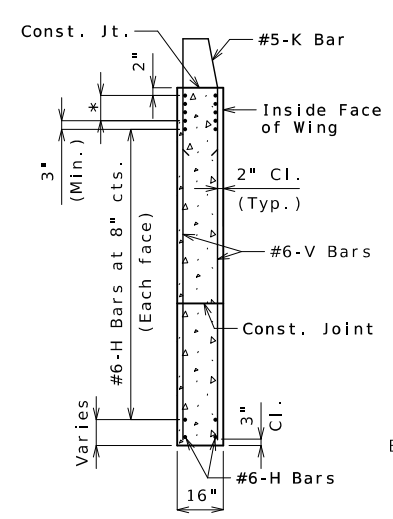
SECTION C-C

SECTION D-D

CHAMFER DETAIL

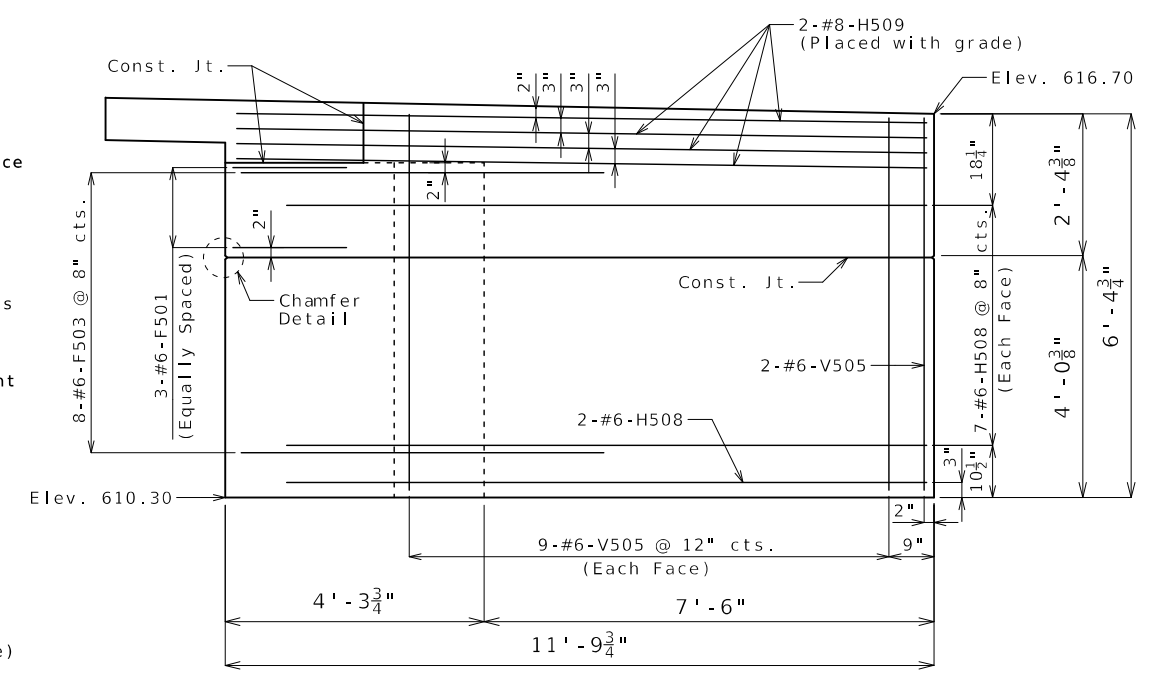


ELEVATION E-E



TYPICAL SECTION THRU WING

* #8-H Bars at 3" cts. (Each face) (Place with grade)



ELEVATION F-F

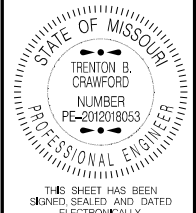
Notes:
Work this sheet with Sheets No. 14 & 15.
For reinforcement of the barrier, see Sheets No. 24 & 25.

DETAILS OF END BENT NO. 5

DATE	DESCRIPTION

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ROUTE D STATE MO

DISTRICT BR SHEET NO. 20

COUNTY
ST. LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

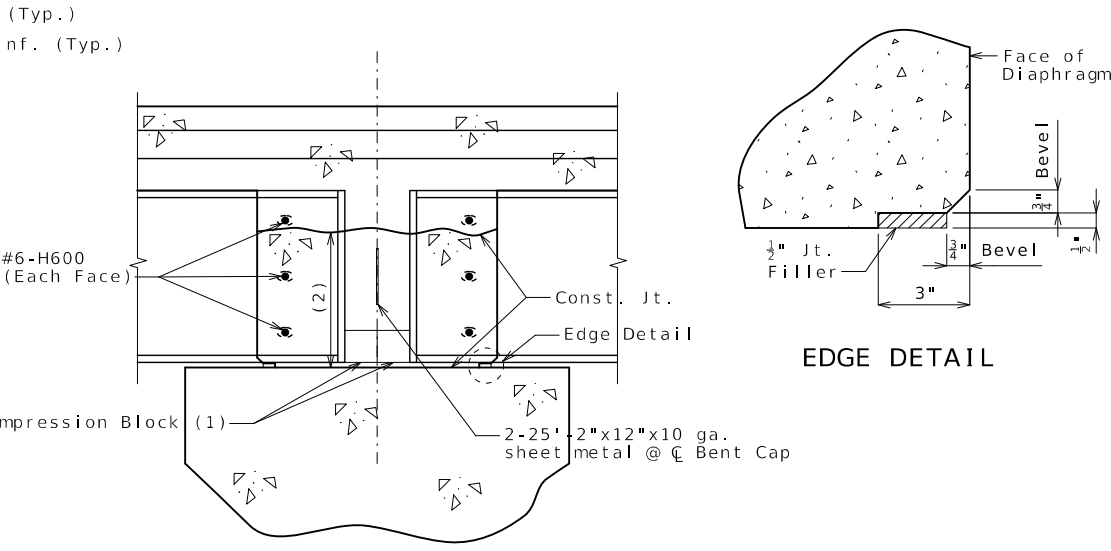
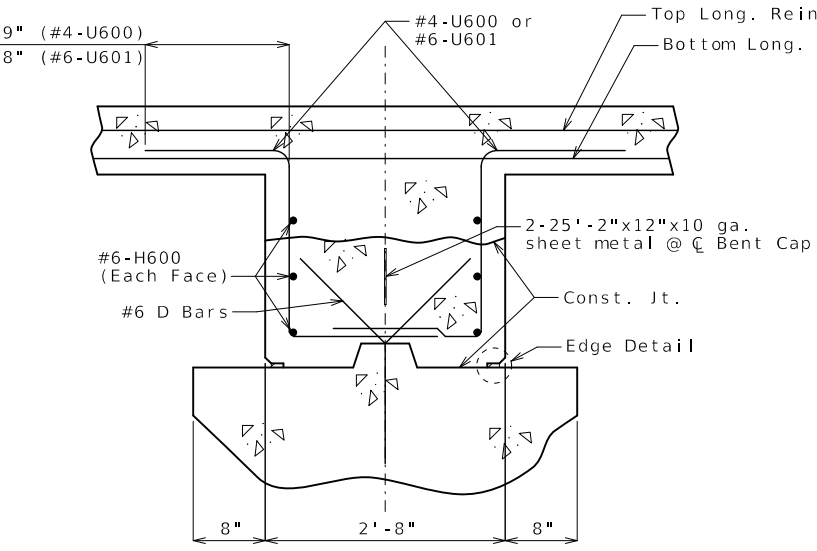
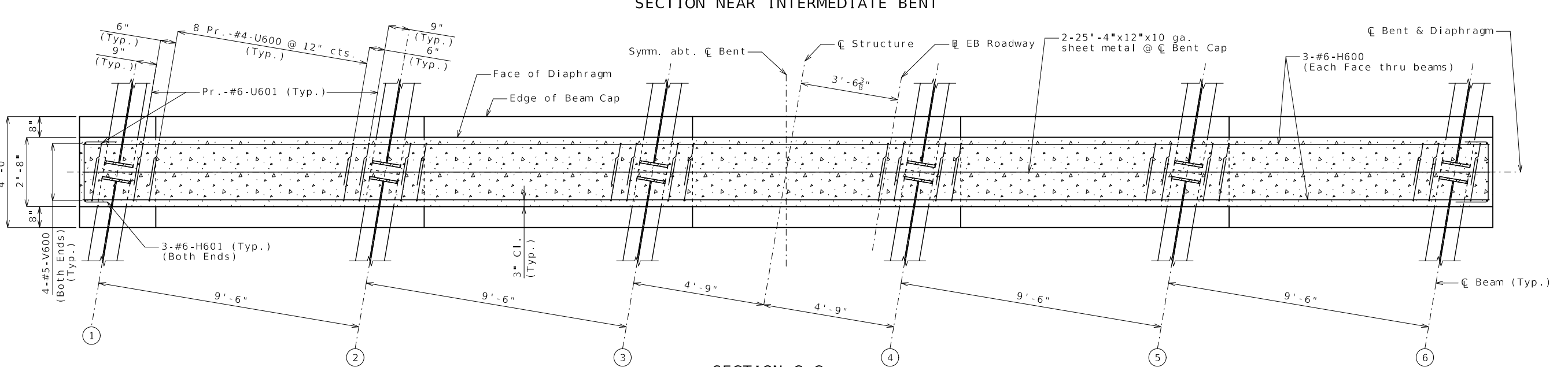
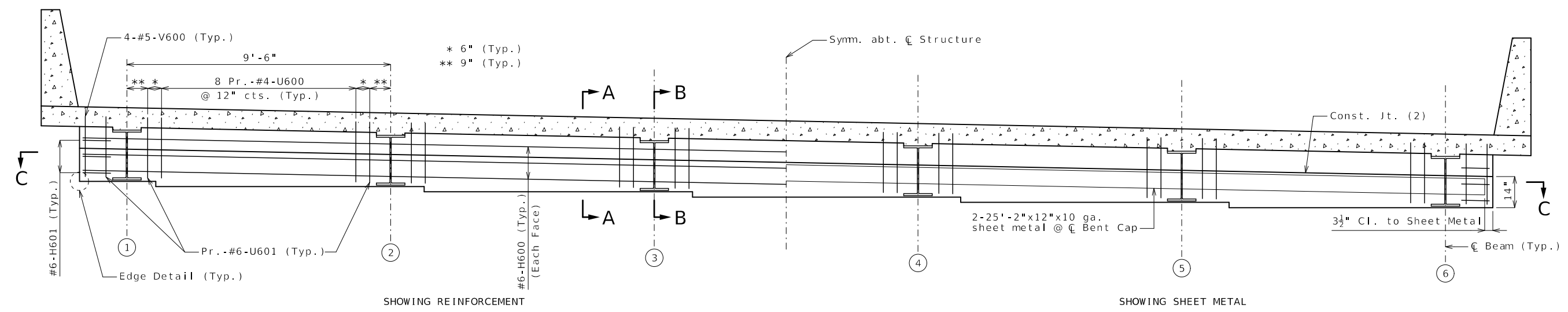
BRIDGE NO.
A9477

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Notes:

Diaphragms at intermediate bents shall be built vertical.

All U bars in diaphragm shall be placed parallel to Roadway.

All reinforcement in the intermediate bent concrete diaphragms except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Steel.

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Steel.

Concrete diaphragm below construction joint will be poured a minimum of 12 hours before the slab is poured.

Sheet metal in Intermediate Diaphragms shall be Grade 40 and coated in accordance with ASTM 653, coating designation G165. Sheet Metal is included in the Estimated Quantities for Slab on Steel.

(1) Vertical face of compression blocks shall be in partial contact. Full contact throughout block height is not necessary. Vertical faces of adjacent blocks shall overlap a minimum of 2 1/4\".

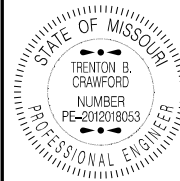
(2) Varies, match roadway cross slope on top. Sheet Metal may rest on D Bars when pouring diaphragm.

CONCRETE DIAPHRAGMS AT INTERMEDIATE BENTS NO. 2, 3 & 4

Detailed Oct. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 20 of 35



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1/29/2025

ROUTE D STATE MO

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COUNTY ST. LOUIS

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CONTRACT ID.

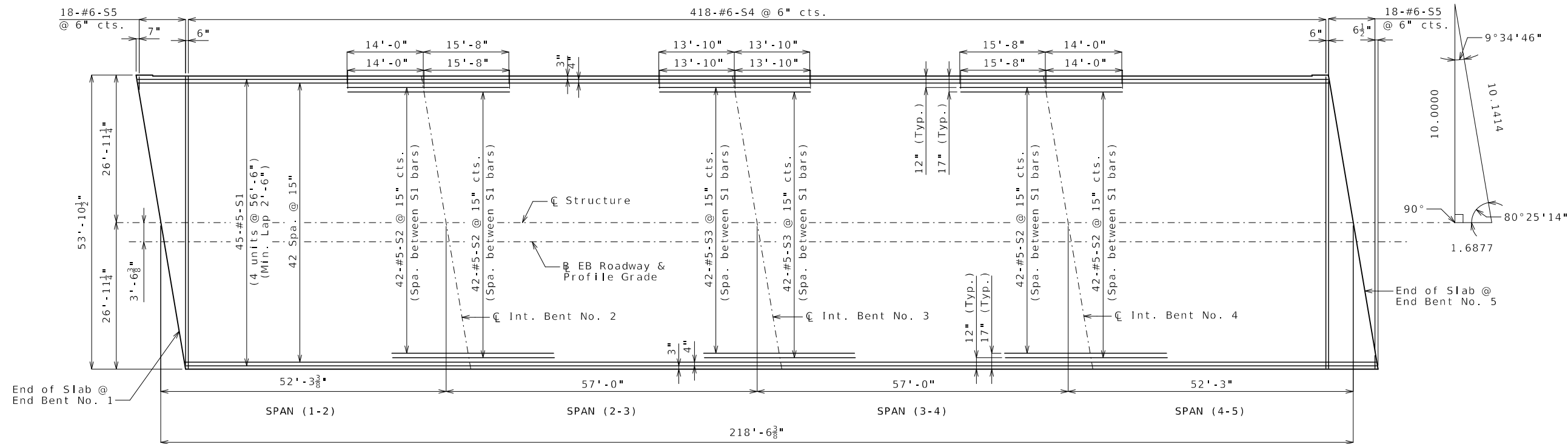
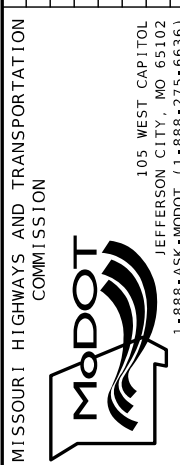
PROJECT NO.

BRIDGE NO. A9477

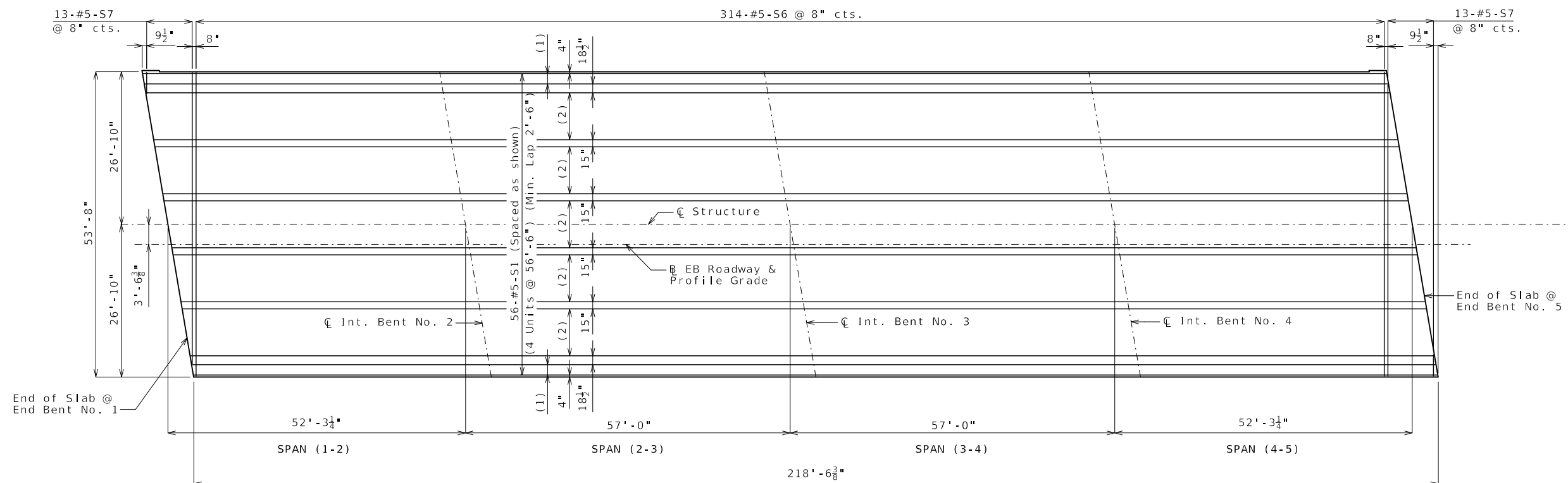
DESCRIPTION

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
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PLAN OF SLAB SHOWING TOP REINFORCEMENT



PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT

- (1) 2 Spa. @ 11"
- (2) 9 Spa. @ 11"

Notes:

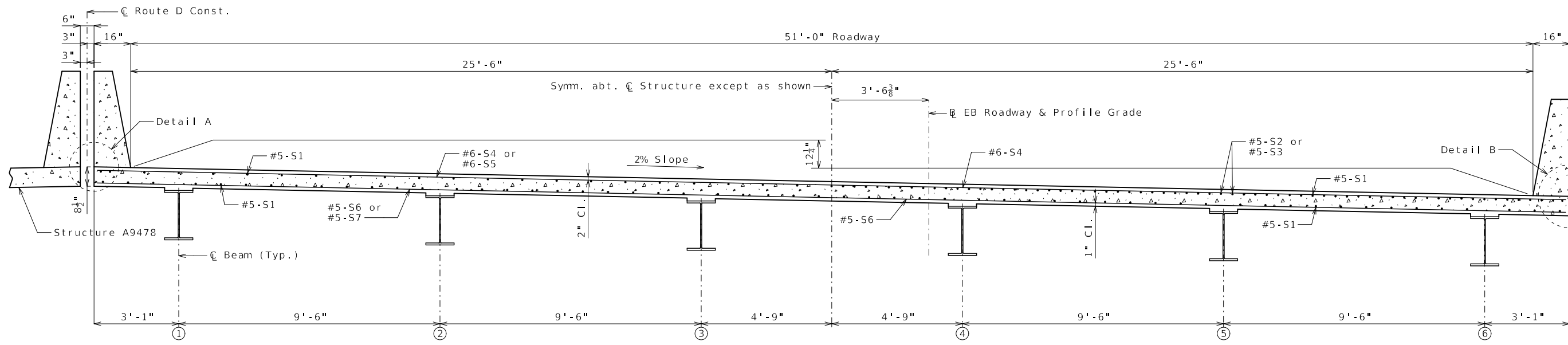
Longitudinal dimensions are measured horizontally.

For Theoretical Bottom of Slab Elevations, Girder Camber Diagram and Theoretical Slab haunching Diagram, see Sheet No. 21.

For Section Thru Slab and Slab Pouring Sequence, see Sheet No. 23.

For details and reinforcement of barrier not shown, see Sheets No. 24, 25 & 26.

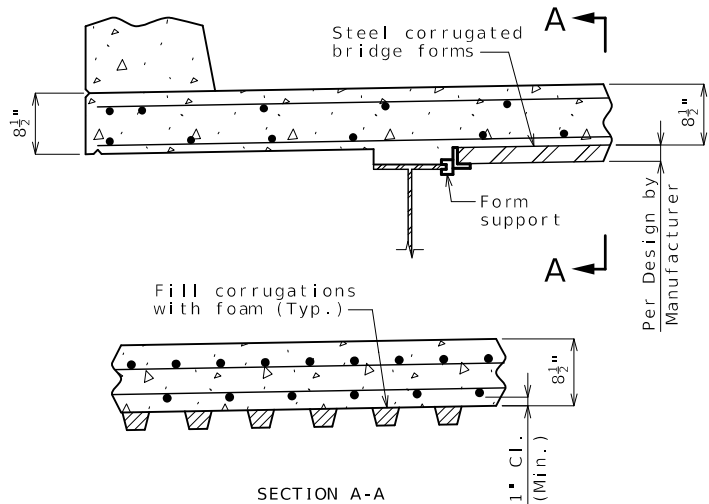
SLAB DETAILS



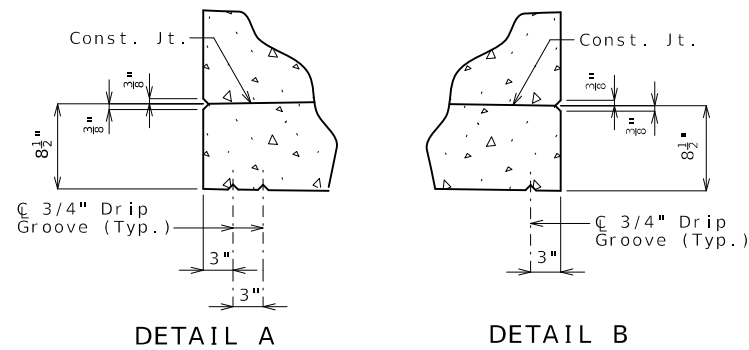
HALF SECTION NEAR MIDSPAN

SECTION THRU SLAB

HALF SECTION NEAR INTERMEDIATE BENT

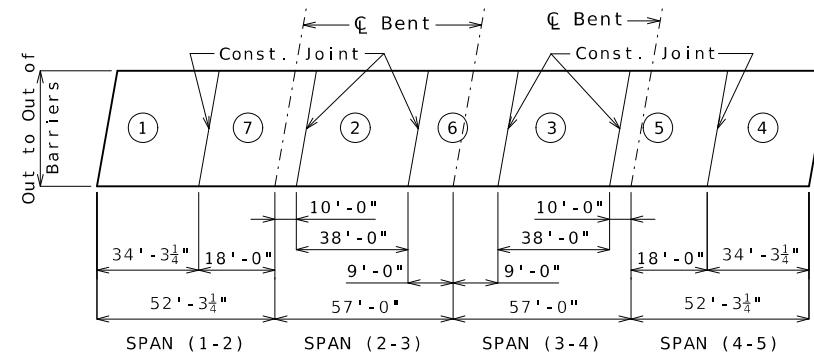


OPTIONAL STAY-IN-PLACE FORM DETAILS



DETAIL A

DETAIL B



Basic Sequence	Sequence of Pours							Min. Rate of Pour Cu. Yds./Hr.	
	Direction							With Retarder	No Retarder
	1	2	3	4	5	6	7		
	Either Direction							25	25
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.									
Alternate A Pours	1	7 + 2	6 + 3	5 + 4				25	40
	End to 7		1 to 6	2 to 5	3 to End				
Alternate B Pours	1 + 7 + 2		6 + 3		5 + 4			25	40
	End to 6		2 to 5		3 to End				
Alternate C Pours	1 + 7 + 2		6 + 3 + 5 + 4					25	40
	End to 6		2 to End						
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4							25	40
	End to End								

The contractor shall pour and satisfactorily finish the slab pours at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours. The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 12 hours before the slab is poured.

SLAB POURING SEQUENCE

Notes:
 For reinforcement of barrier not shown, see Sheets No. 24, 25 & 26.
 For Theoretical Bottom of Slab Elevations, Beam Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. 21.
 For Plan of Slab Showing Reinforcement, see Sheet No. 22.

Stay-In-Place Forms:

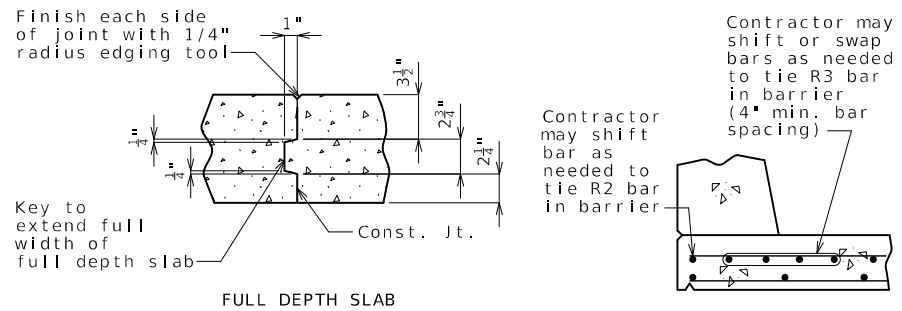
Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

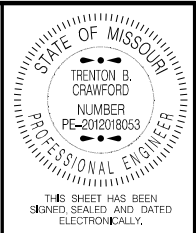
The contractor shall provide a method of preventing the direct contact of the stay-in-place forms and connection components with uncoated weathering steel members that is approved by the engineer.



SLAB CONSTRUCTION JOINT

OPTIONAL SHIFTING TOP BARS AT BARRIER

SLAB DETAILS

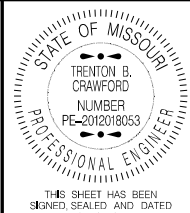


DATE PREPARED 1/29/2025	
ROUTE D	STATE MO
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COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9477	

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ROUTE STATE
D MO

DISTRICT SHEET NO.
BR 24

COUNTY
ST LOUIS

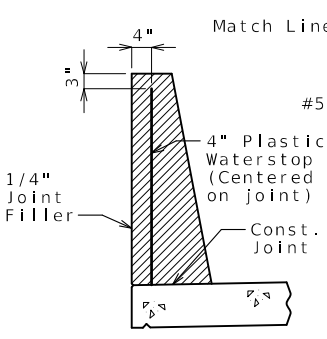
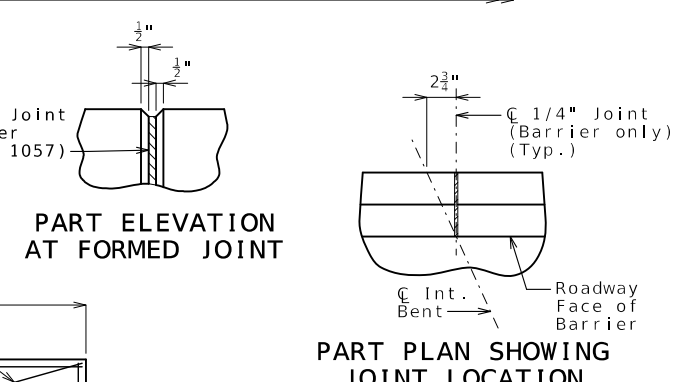
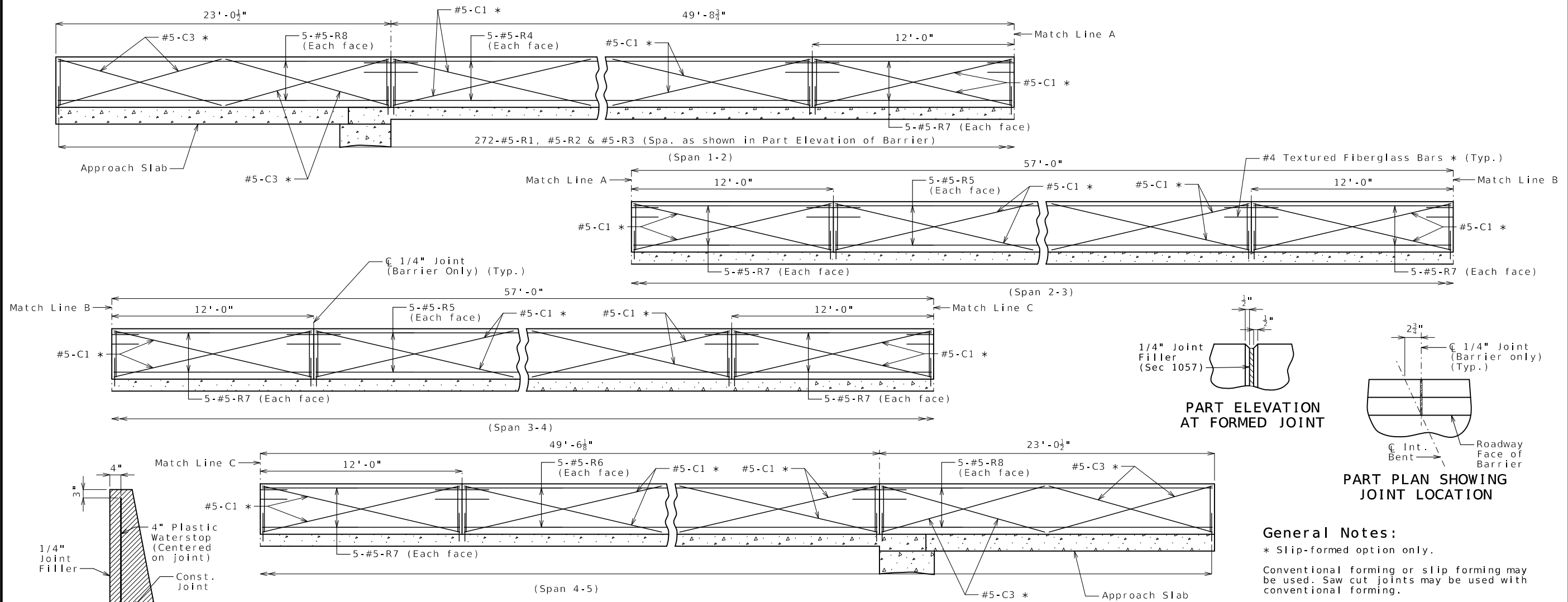
JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9477

DATE	DESCRIPTION

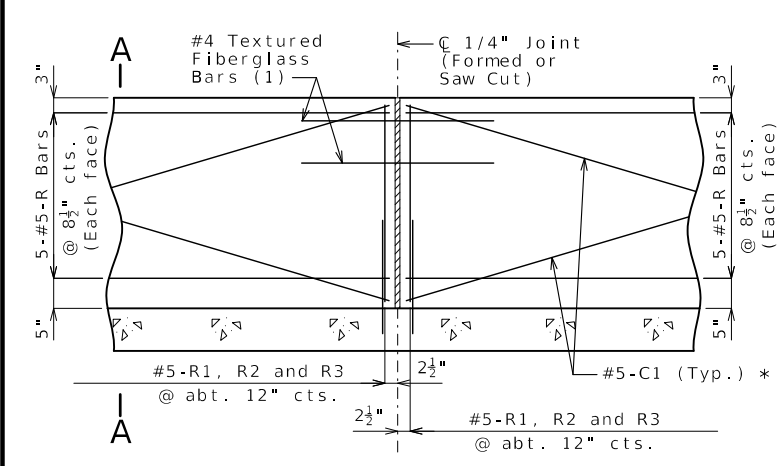


WATERSTOP DETAIL

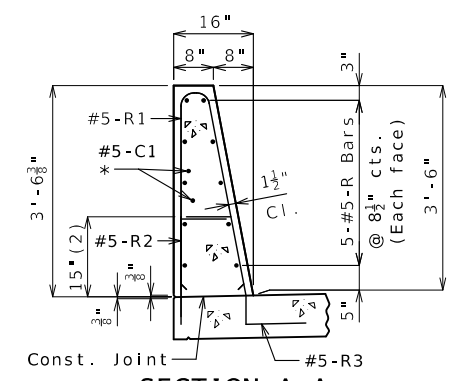
Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type D Barrier.

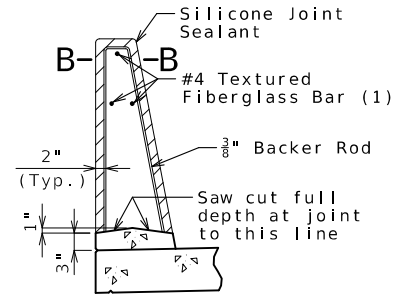
ELEVATION OF BARRIER
Longitudinal dimensions are horizontal.



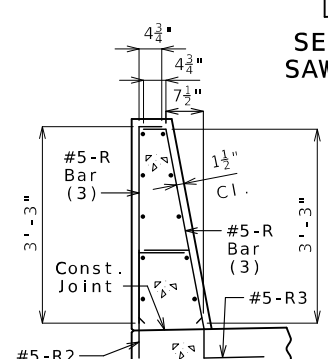
PART ELEVATION OF BARRIER
(1) Four feet long, centered on joint, slip-formed option only



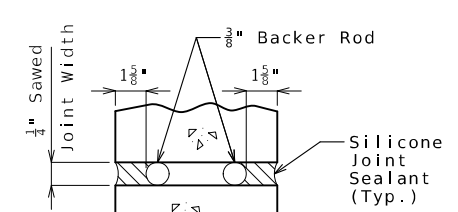
SECTION A-A
Use a minimum lap of 3'-1" for #5 horizontal barrier bars.
The cross-sectional area above the slab is 3.52 square feet.
(2) To top of bar



SECTION THRU SAW CUT JOINT



R-BAR PERMISSIBLE ALTERNATE SHAPE
(3) 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.)

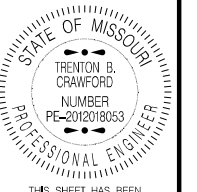


SECTION B-B

TYPE D BARRIER (LEFT)

General Notes:

- * Slip-formed option only.
- Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.
- Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.
- All exposed edges of barrier 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 Type D Barrier per linear foot.
- Concrete in barrier shall be Class B-1.
- Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.
- Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.
- Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.
- For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.
- Plastic waterstop shall be used with saw cut joints.



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BR 25

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JOB NO.
J6S3626
CONTRACT ID.

PROJECT NO.

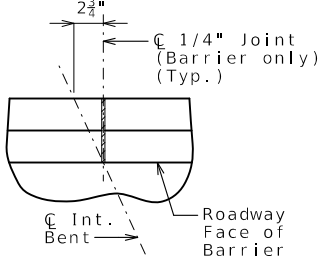
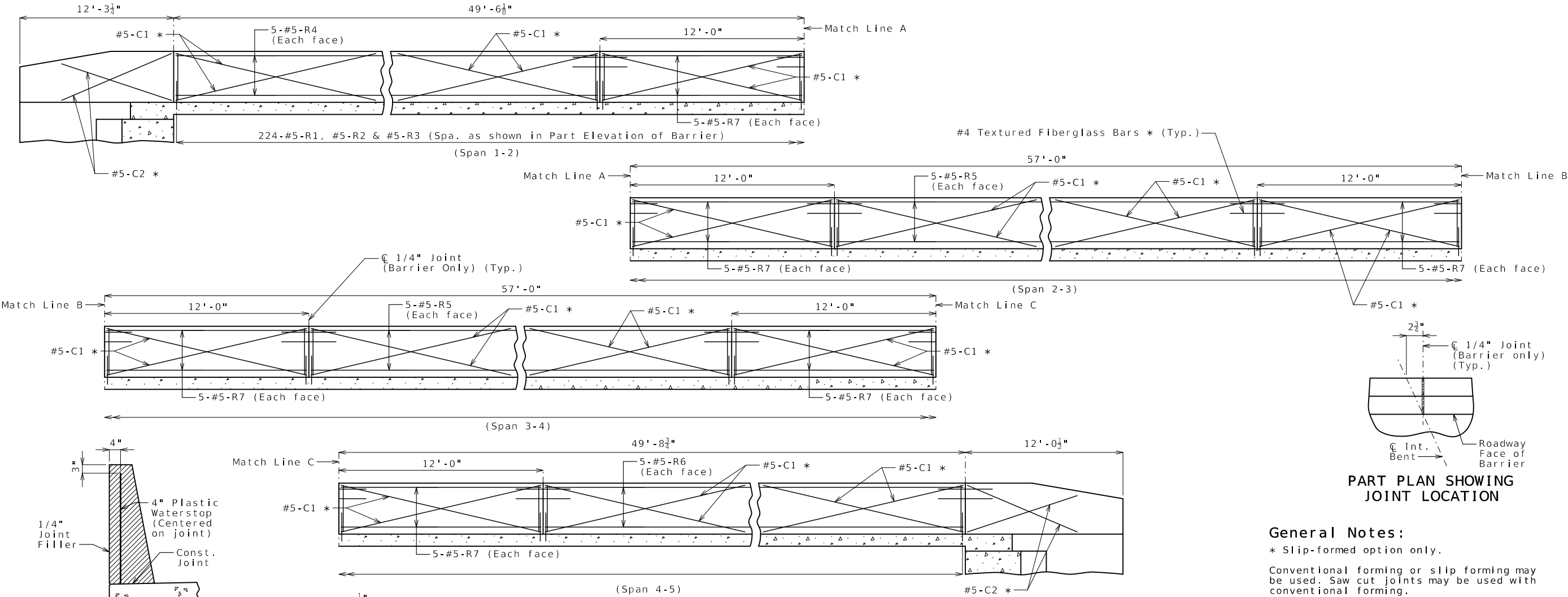
BRIDGE NO.
A9477

DESCRIPTION	DATE

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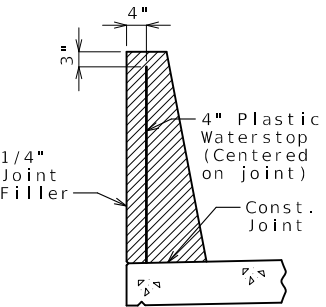


PART PLAN SHOWING JOINT LOCATION

WATERSTOP DETAIL

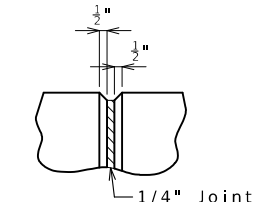
Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type D Barrier.



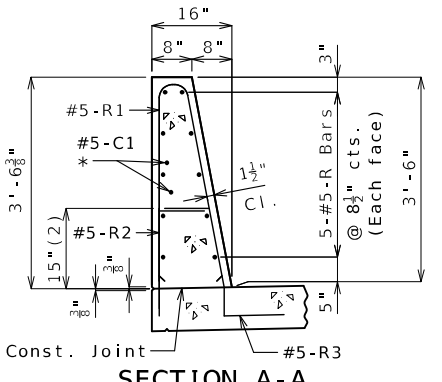
PART ELEVATION AT FORMED JOINT

1/4" Joint Filler (Sec 1057)



ELEVATION OF BARRIER

Longitudinal dimensions are horizontal.

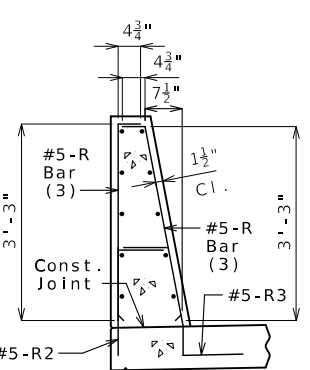


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

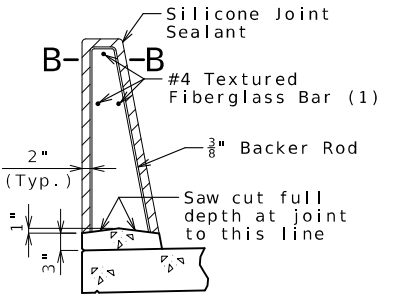
The cross-sectional area above the slab is 3.52 square feet.

(2) To top of bar

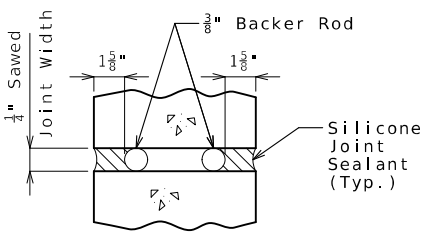


R-BAR PERMISSIBLE ALTERNATE SHAPE

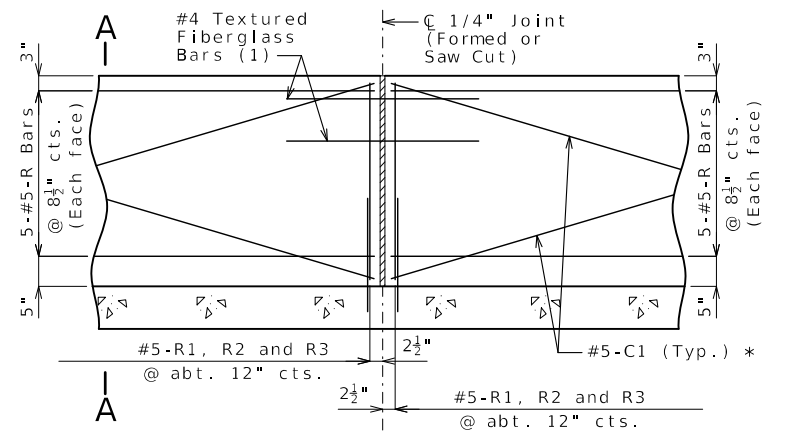
(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)



SECTION THRU SAW CUT JOINT



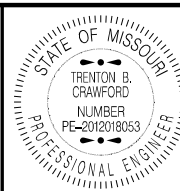
SECTION B-B



PART ELEVATION OF BARRIER

(1) Four feet long, centered on joint, slip-formed option only

TYPE D BARRIER (RIGHT)



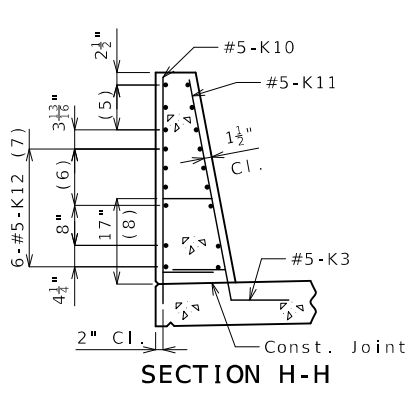
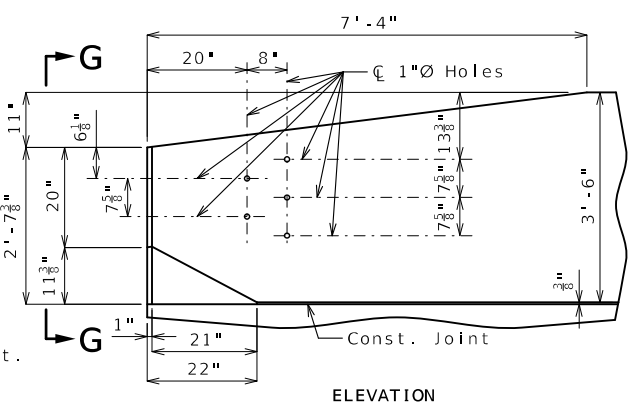
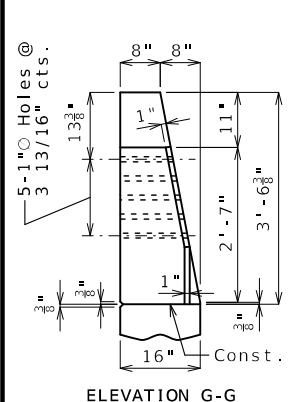
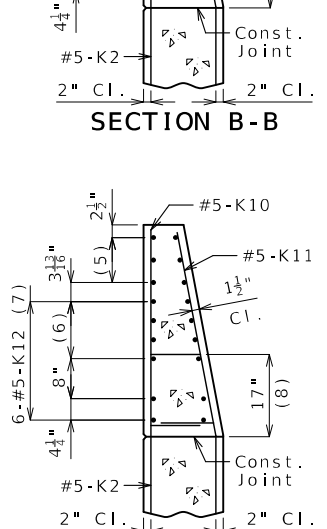
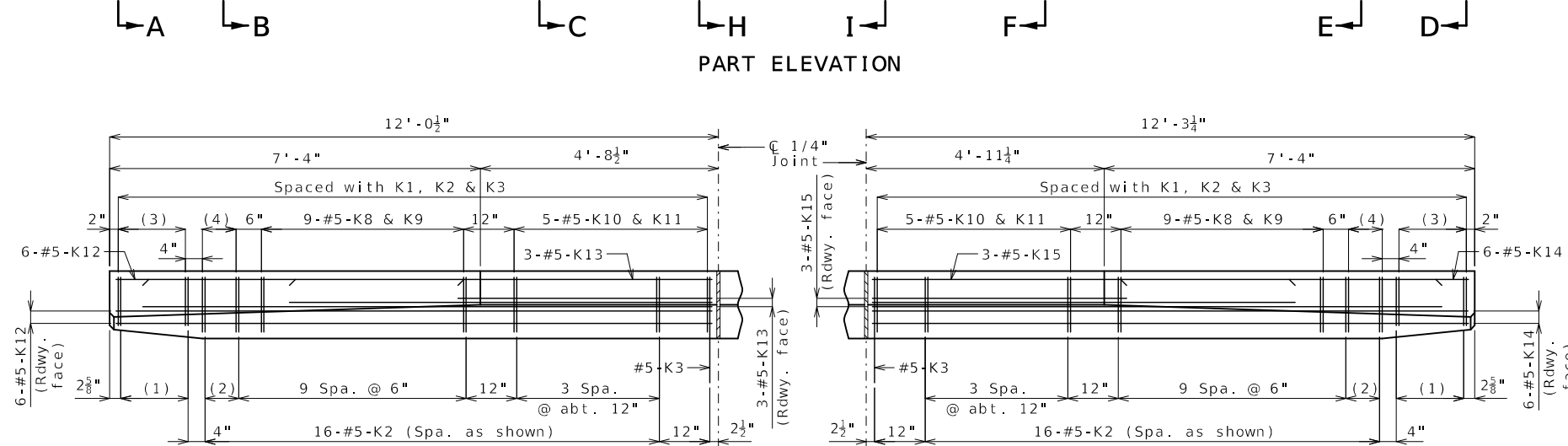
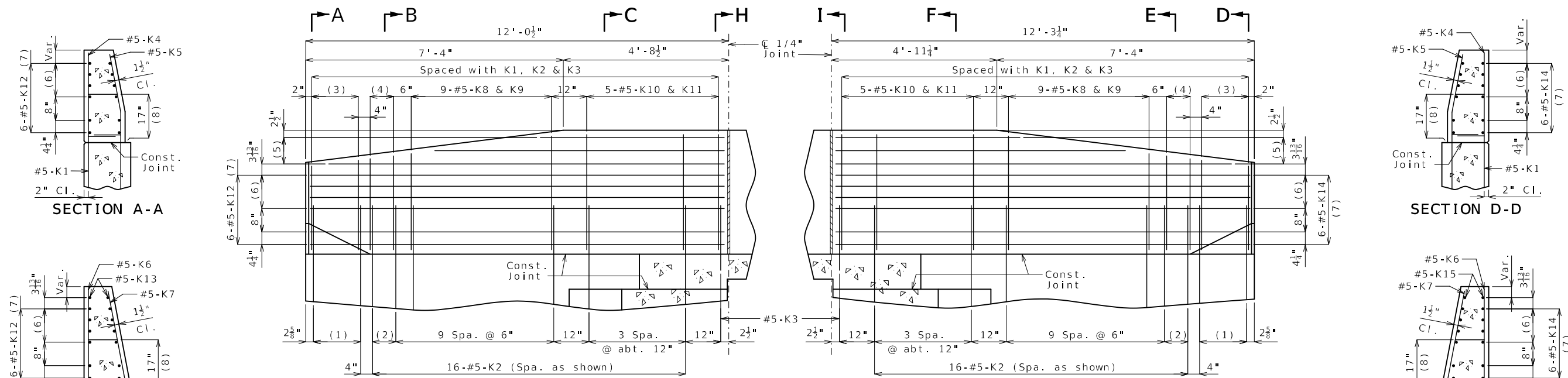
DATE PREPARED
1/29/2025
ROUTE D STATE MO
DISTRICT BR SHEET NO. 26
COUNTY ST. LOUIS
JOB NO. J6S3626
CONTRACT ID.

PROJECT NO.
BRIDGE NO. A9477

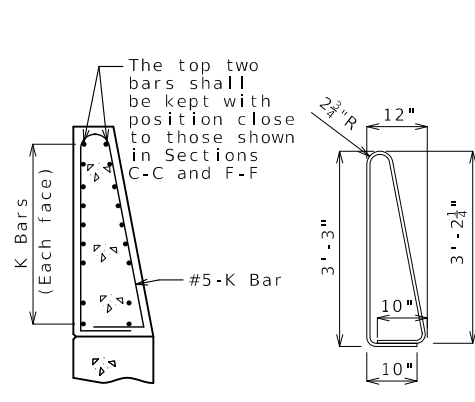
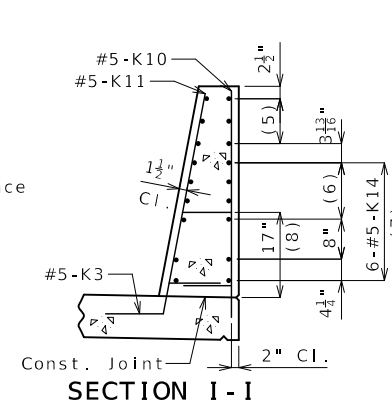
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

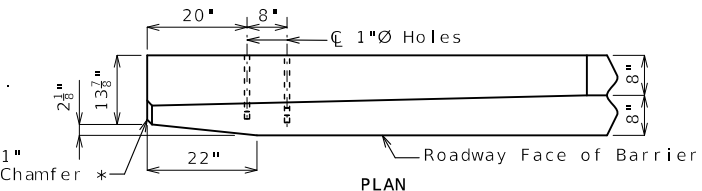
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



- (1) 5-#5-K1 @ 4" cts.
- (2) 2 spaces @ 4"
- (3) 5-#5-K4 & K5
- (4) 3-#5-K6 & K7
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face
- (6) 3 spaces @ 3 13/16"
- (7) Spaced as shown, each face
- (8) To top of bar



* Transition to zero at Type A curb for gutter lines to match.



DETAILS OF GUARD RAIL ATTACHMENT

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

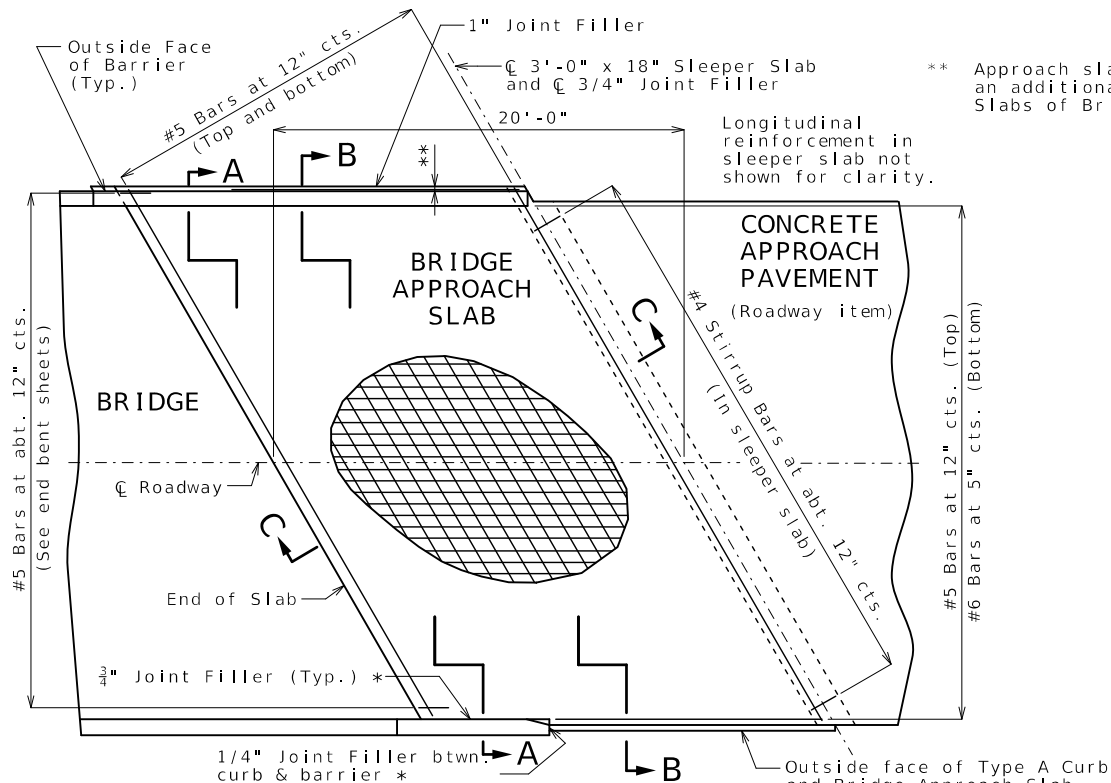
TYPE D BARRIER AT END BENTS (RIGHT)

K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

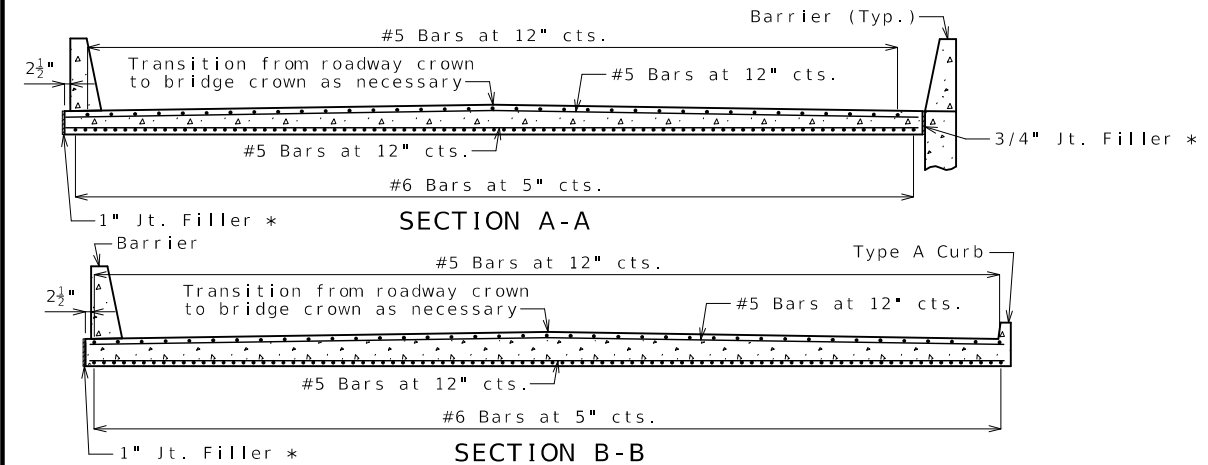
(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

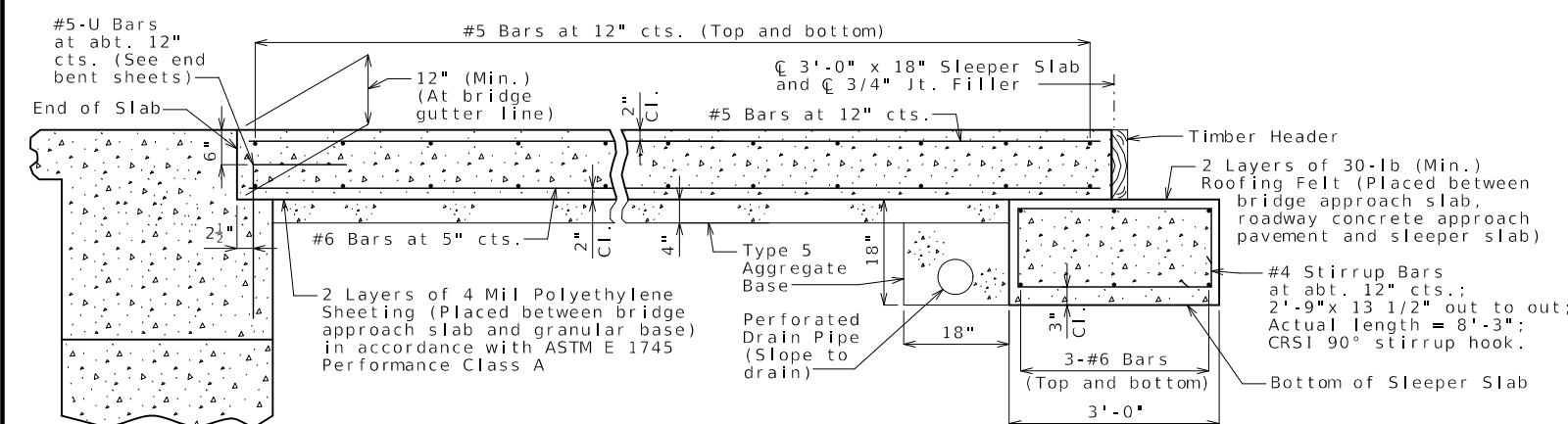
All dimensions are out to out.



PART PLAN SHOWING REINFORCEMENT
Approach slab shown is for End Bent 5, End bent 1 similar.

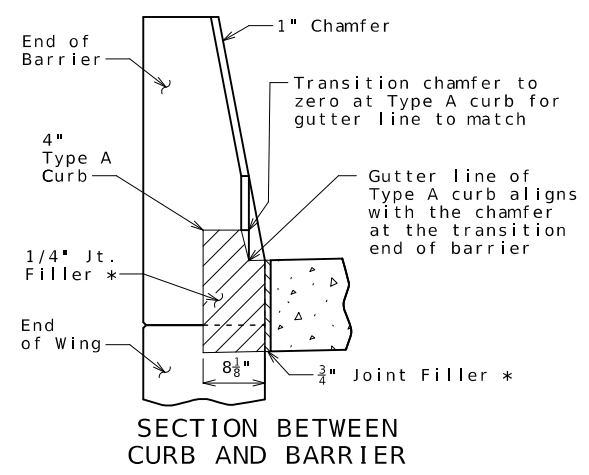
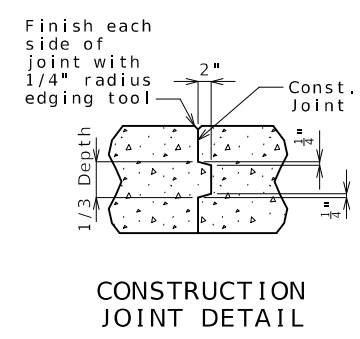
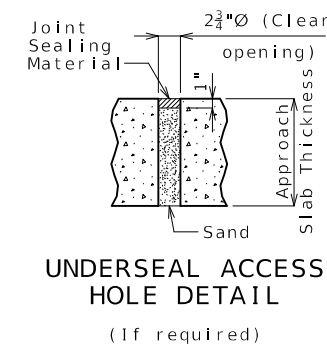


With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



SECTION C-C
BRIDGE APPROACH SLAB (MAJOR)

** Approach slab will extend beyond the back of barrier an additional 2 1/2 inches. Gap between Approach Slabs of Bridge A9477 & A9478 shall be 1".



SECTION BETWEEN CURB AND BARRIER

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 stainless steel Grade 75 with $f_y = 75,000$ 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 providing a minimum lap splice of 29 inches for #5 bars and 44 inches for #6 bars, or by mechanical bar splice.

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.

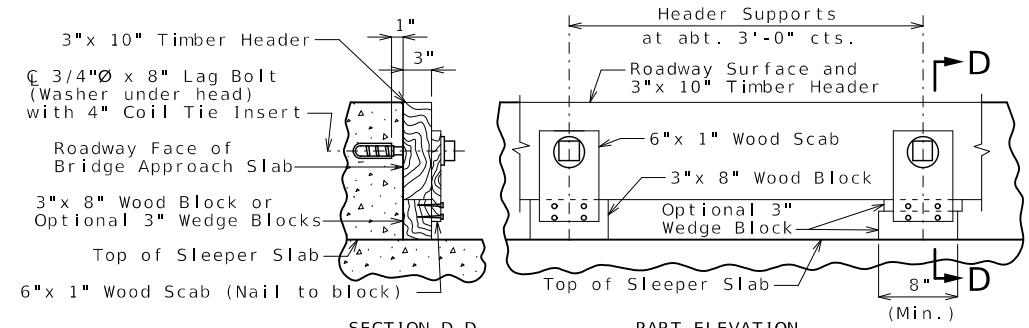
The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

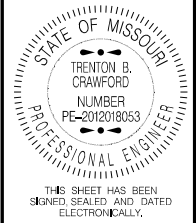
For concrete approach pavement details, see roadway plans. See Missouri Standard Plan 609.00 for details of Type A curb.

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) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



SECTION D-D
PART ELEVATION
DETAILS OF TIMBER HEADER
Remove timber header when concrete pavement is placed.

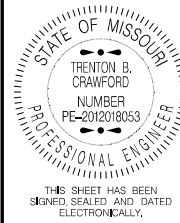


DATE PREPARED 1/29/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 27
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9477	

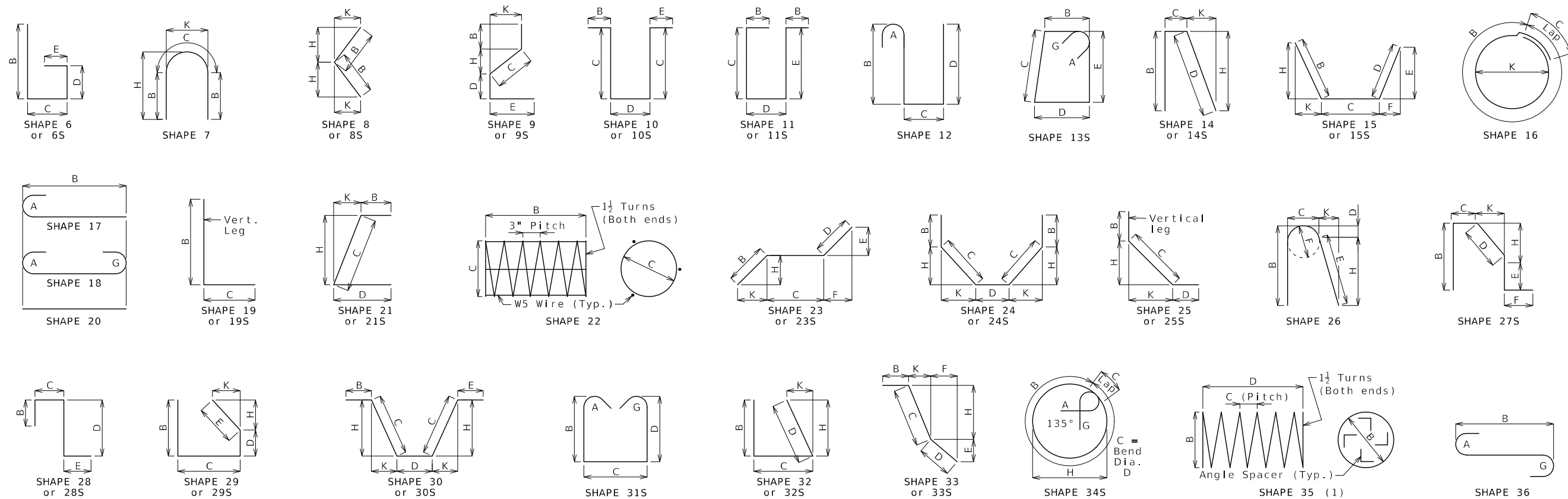
DATE	DESCRIPTION

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





DATE PREPARED
1/29/2025
ROUTE STATE
D MO
DISTRICT SHEET NO.
BR 28
COUNTY
ST. LOUIS
JOB NO.
J6S3626
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
A9478

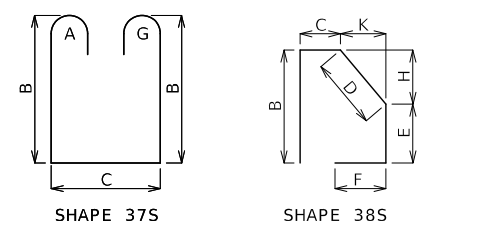


Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes					
Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3 3/4"	10"	7"	5"
#6	1	4 1/2"	12"	8 1/4"	6"
#7	2	5 1/4"	14"	9 3/4"	7"
	3	7"	15"	11 1/2"	8 3/4"
#8	2	6"	16"	11"	8"
	3	8"	17"	13 3/4"	10"
#9	1	9 1/2"	19 1/2"	15 1/2"	11 3/4"
#10	1	10 3/4"	22"	17 1/2"	13 1/4"
#11	1	12"	24 1/2"	19 1/2"	14 7/8"
#14	1	18 1/4"	31 1/4"	27 1/2"	21 5/8"
#18	1	24"	41 1/2"	36 1/4"	28 1/2"

Stirrup Pin Bend Shapes (S)							
Size	Case	D	A or G		H	J	
			90°	135°	180°	135°	180°
#4	2	2"	4 1/2"	4 1/2"	5"	2 7/8"	3"
	3	3"	5"	5 1/4"	6"	3"	4"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"	3 3/4"
	3	3 3/4"	6 1/4"	6 1/4"	7"	3 7/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 7/8"	6"

Applicable for all grades of steel.
Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



BENDING DIAGRAMS

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

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.

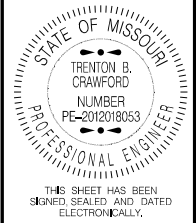
Reinforcing Steel Totals (Pounds)

Size	Substructure		Superstructure			Entire Bridge		
	Stainless Steel	Epoxy	Slab		Barrier	Slip Form	Stainless Steel	Epoxy
			Stainless Steel	Epoxy				
W5	0	0	0	0	0	0	0	
4	0	0	855	0	0	0	855	
5	15,138	0	52,785	0	12,173	810	80,915	
6	3,429	0	45,371	0	0	0	48,800	
7	0	0	0	0	0	0	0	
8	5,382	0	542	0	0	0	5,924	
9	0	0	0	0	0	0	0	
10	18,483	0	0	0	0	0	18,483	
11	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	
By Type	42,432	0	99,553	0	12,173	810	154,977	

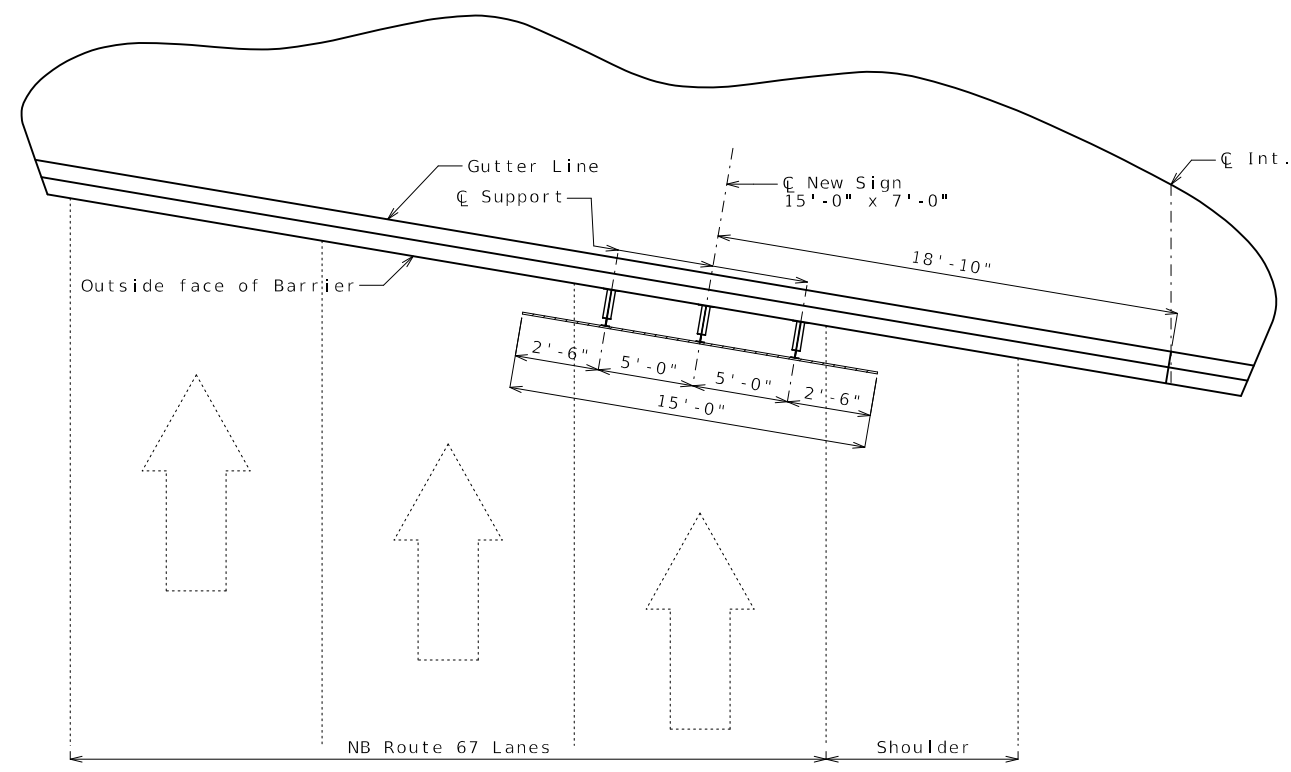
All reinforcing steel shall be stainless steel unless otherwise specified.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

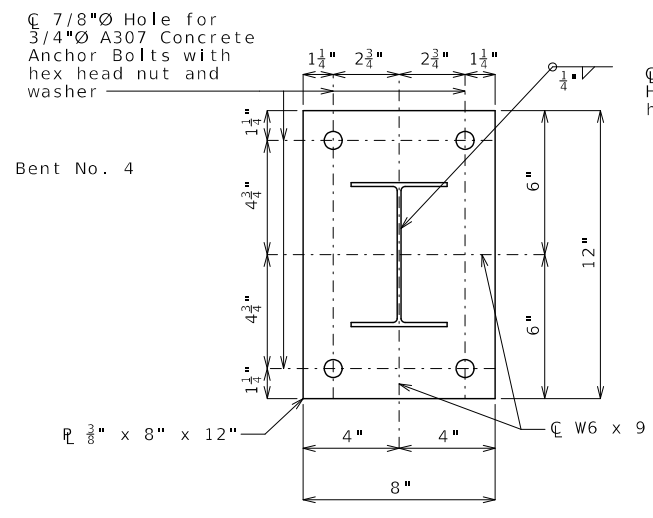
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



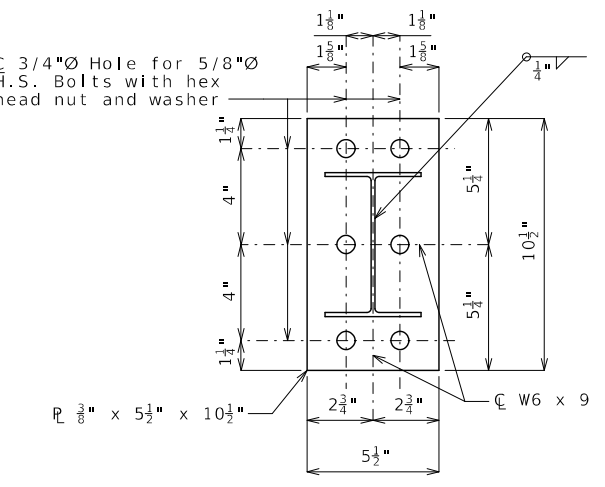
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ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 32
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9477	



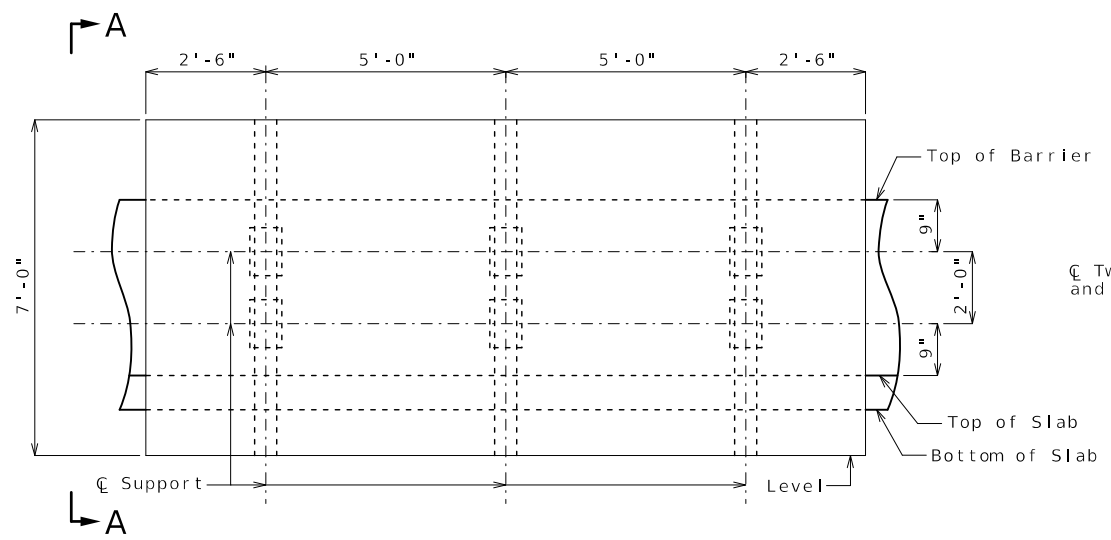
PLAN



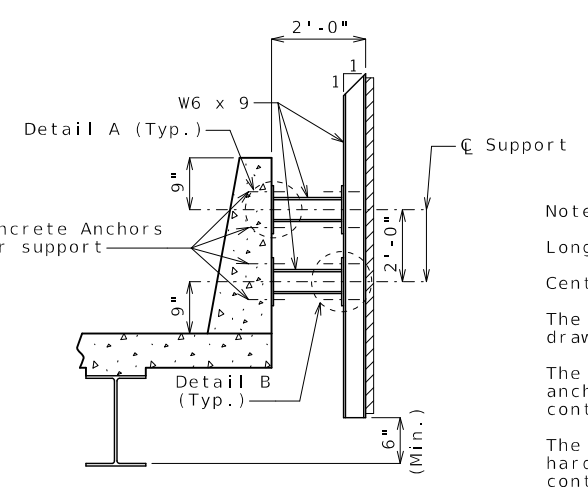
DETAIL A



DETAIL B



ELEVATION OF SIGN



SECTION A-A

- Notes:
- Longitudinal dimensions are horizontal.
 - Center and level sign on brackets.
 - The contractor shall verify all dimensions in field before finalizing the shop drawings.
 - The cost of furnishing and erecting sign supports, including the concrete anchors, complete in place, will be considered completely covered by the contract unit price for Fabricated Sign Support Brackets.
 - The cost of furnishing and erecting the sign boards, including attaching hardware, complete in place, will be considered completely covered by the contract unit price for Fabricated Sign Support Brackets.
 - Shift sign support brackets minimum amount necessary for installation of anchors and bolts into structure and to clear construction joints and structural members.
 - All bolts, nuts and washers shall be galvanized.
 - All structural steel shall be ASTM A709, Grade 36, galvanized.
 - Concrete anchors shall be the non-drilling expansion type. They shall have a certified concrete pullout strength (ultimate load) of at least 12,100 pounds in 4000 psi concrete. The hole shall be pre-drilled with a conventional carbide masonry bit. Resin anchors shall not be used.
 - Threaded inserts shall provide a safe working load in tension of 2200 lbs. each and shear of 1990 lbs each.
 - Bolt threads shall be burred after sign has been erected.

FABRICATED SIGN SUPPORT BRACKETS

Detailed Oct. 2024
Checked Oct. 2024

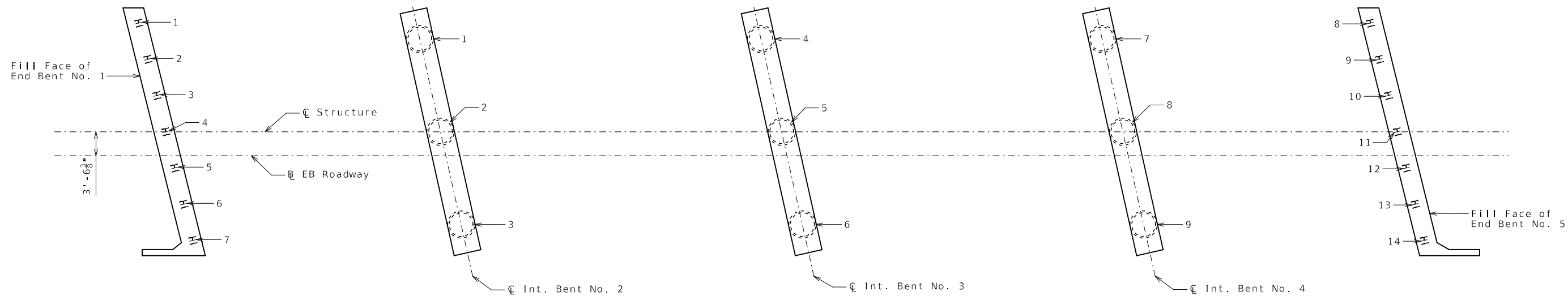
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 32 of 35

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



PART PLAN SHOWING PILE & DRILLED SHAFT NUMBERING FOR RECORDING AS-BUILT PILE DATA & AS-BUILT DRILLED SHAFT DATA

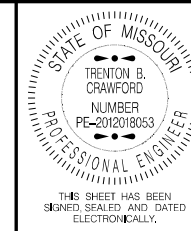
As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No. 1
1			
2			
3			
4			
5			
6			
7			
			End Bent No. 5
8			
9			
10			
11			
12			
13			
14			

As-Built Drilled Shaft Data				
Shaft No.	Top of Sound Rock (Elev.)	Tip of Casing (Elev.)	Bottom of Rock Socket (Elev.)	Remarks
				Int. Bent No. 2
1				
2				
3				
				Int. Bent No. 3
4				
5				
6				
				Int. Bent No. 4
7				
8				
9				

Note:
Indicate in remarks column:
A. Pile type and grade
B. Batter
C. Driven to practical refusal

This sheet to be completed by MoDOT construction personnel.

AS-BUILT PILE & DRILLED SHAFT DATA



DATE PREPARED
1/29/2025

ROUTE D STATE MO

DISTRICT BR SHEET NO. 33

COUNTY ST. LOUIS

JOB NO. J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9477

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

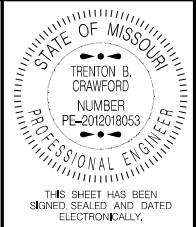
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SUBSURFACE DIAGRAM

PROJECT NAME Page Ave. and Lindbergh Blvd. Interchange
 PROJECT LOCATION St. Louis County, Missouri
 CLIENT MoDOT
 PROJECT NUMBER J6S3626

	Fill (made ground)		USCS Low Plasticity Clay		Shale
	No Core		USCS High Plasticity Clay		Coal
	Asphalt		Concrete		Boulders and cobbles



DATE PREPARED
1/29/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
BR	34

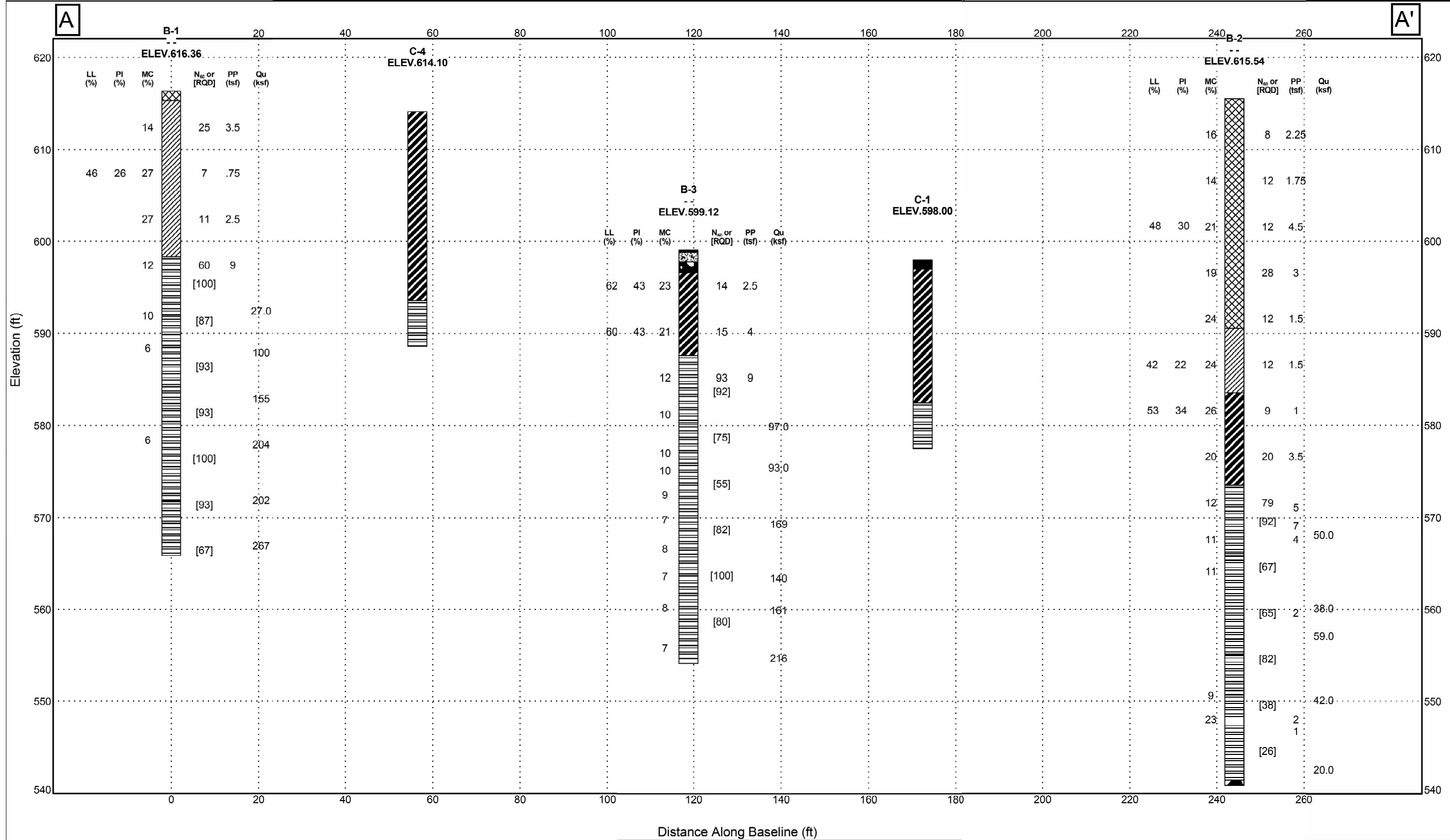
COUNTY
ST. LOUIS

JOB NO.
J6S3626

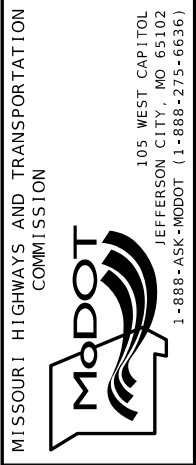
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PROJECT NO.

BRIDGE NO.
A9477



DATE	DESCRIPTION

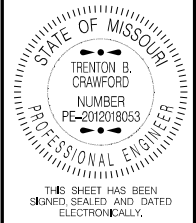




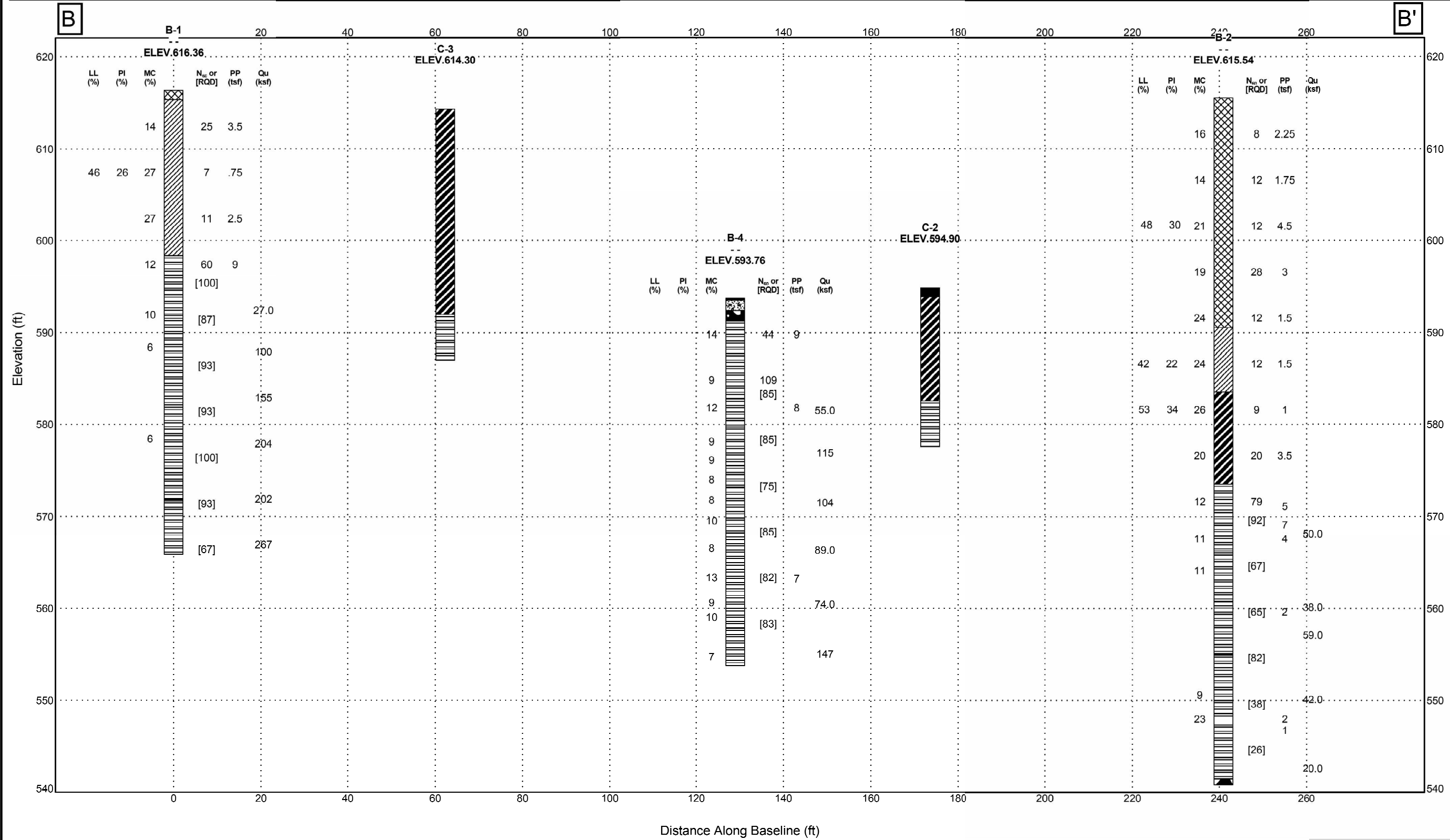
SUBSURFACE DIAGRAM

PROJECT NAME Page Ave. and Lindbergh Blvd. Interchange
 PROJECT LOCATION St. Louis County, Missouri
 CLIENT MoDOT
 PROJECT NUMBER J6S3626

- Fill (made ground)
- USCS Low Plasticity Clay
- Shale
- No Core
- USCS High Plasticity Clay
- Coal
- Asphalt
- Concrete
- Boulders and cobbles



DATE PREPARED
 1/29/2025
 ROUTE D STATE MO
 DISTRICT BR SHEET NO. 35
 COUNTY ST. LOUIS
 JOB NO. J6S3626
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A9477

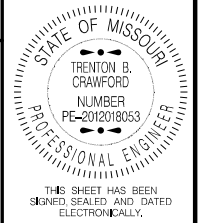


BORING DATA
 Note: For locations of borings, see Sheet No. 1.
 Note: This drawing is not to scale. Follow dimensions.

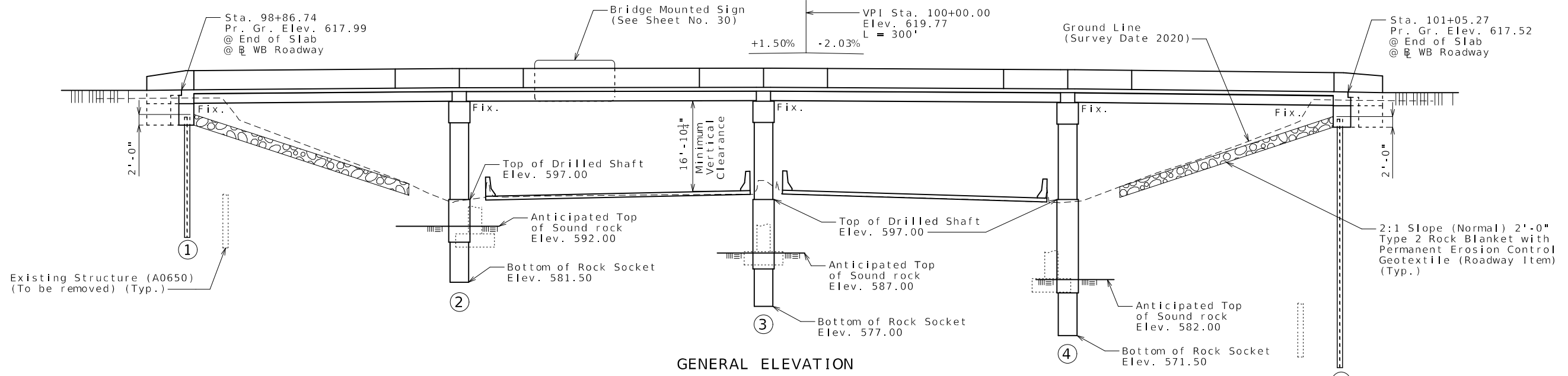
DATE	DESCRIPTION



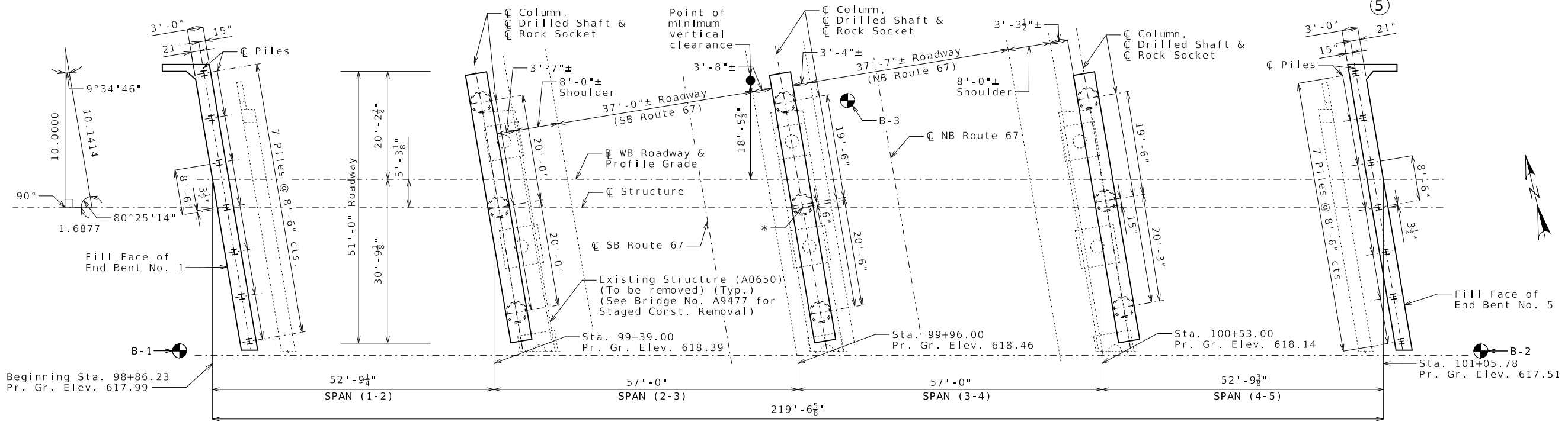
(51'-57'-57'-51') SDCL COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: 9°34'46" R.A.)



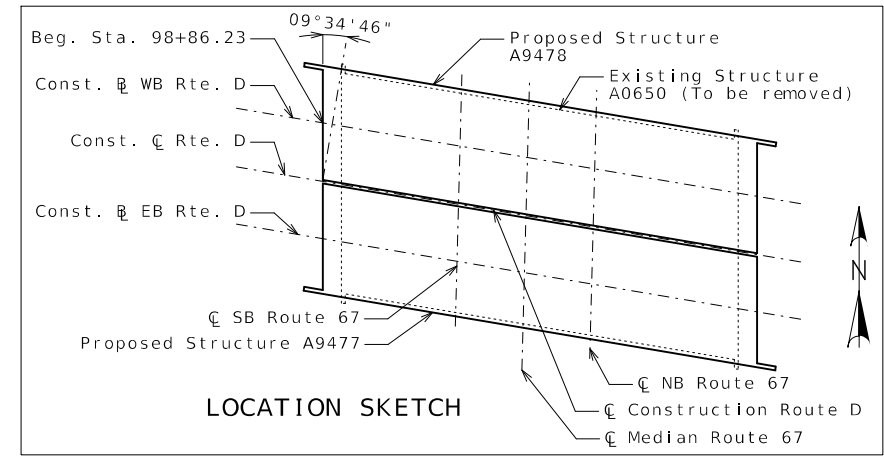
DATE PREPARED	1/30/2025
ROUTE	D MO
DISTRICT	BR 1
COUNTY	ST LOUIS
JOB NO.	J6S3626
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A9478



GENERAL ELEVATION



PLAN



LOCATION SKETCH

* For tie-station of WB Route D with Route 67 see roadway plans.

● 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. 32 & 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.

Note:

Roadway fill shall be completed to the final roadway section and go up to the elevation of the bottom of the concrete beam within the limits of the structure and for not less than 25 feet in back of the fill face of the ends bents before any piles are driven for any bents falling within the embankment section.

- B.M. # 1 - 5/8" ROD W/ CAP STAMPED CONTROL POINT, EL. 631.67, NORTHING 846334.98, EASTING 1043305.21
- B.M. # 2 - 5/8" ROD W/ CAP STAMPED CONTROL POINT, EL. 579.72, NORTHING 846258.28, EASTING 1042033.18

BRIDGE: ROUTE D WB OVER ROUTE 67

ROUTE D FROM ROUTE 270 TO ROUTE 170
ABOUT 2.3 MILES EAST OF ROUTE 270
BEGINNING STATION 98+86.23

Designed Sep. 2024
Detailed Oct. 2024
Checked Nov. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 34

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



DATE PREPARED
1/30/2025

ROUTE D STATE MO

DISTRICT BR SHEET NO. 3

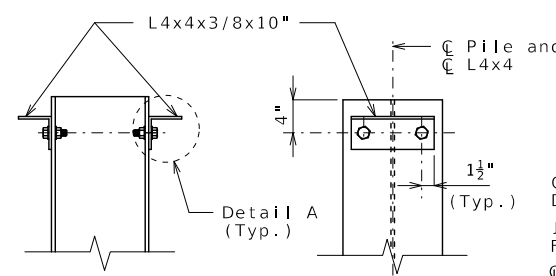
COUNTY ST LOUIS

JOB NO. J6S3626

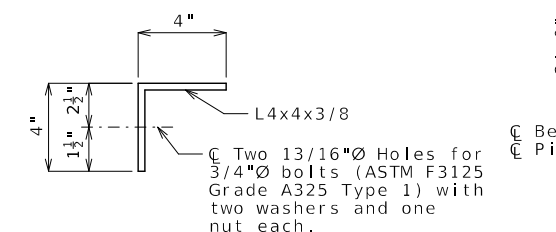
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9478

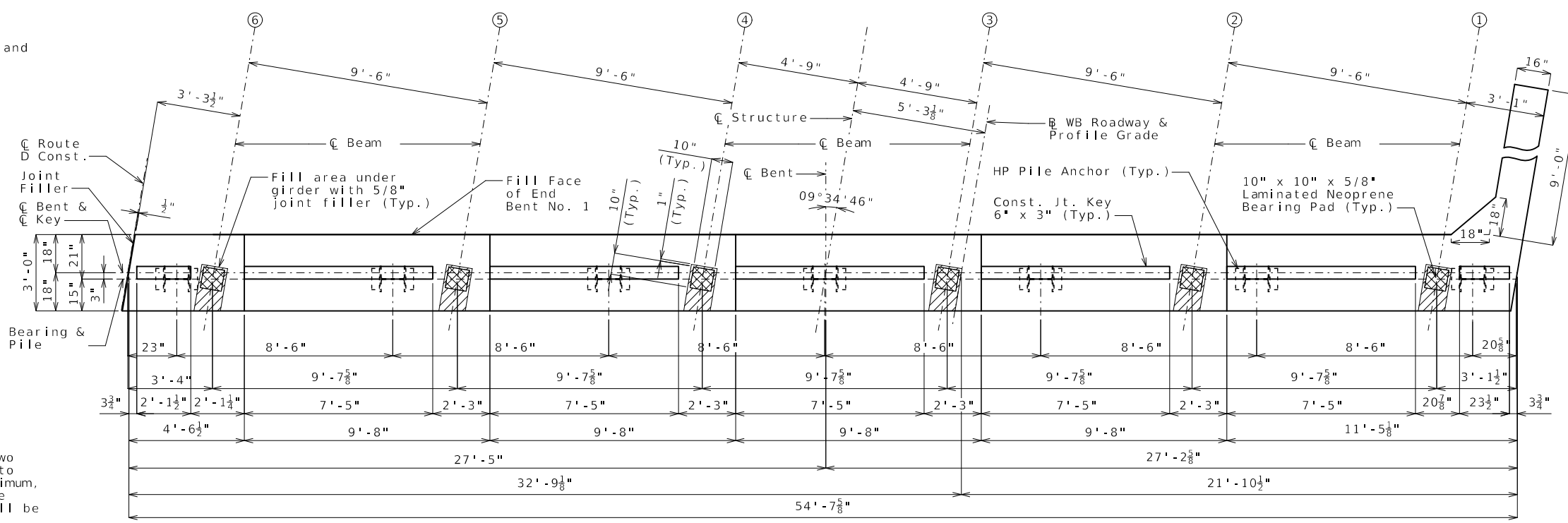


DETAILS OF HP PILE ANCHORS

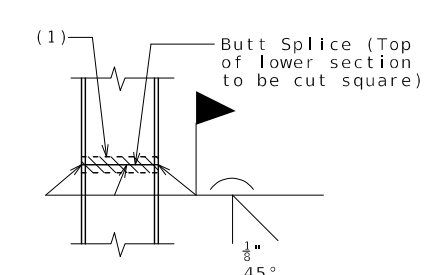


DETAIL A

Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

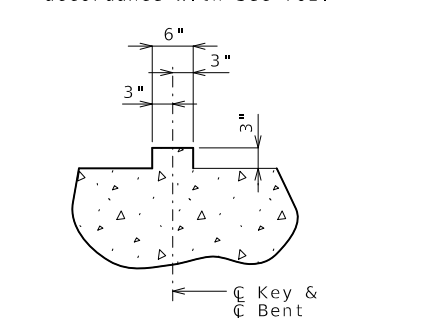


PLAN OF BEAM

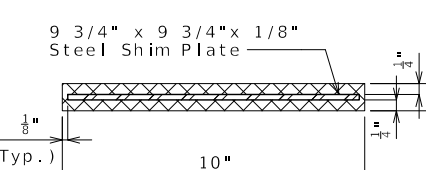


STEEL PILE SPLICE

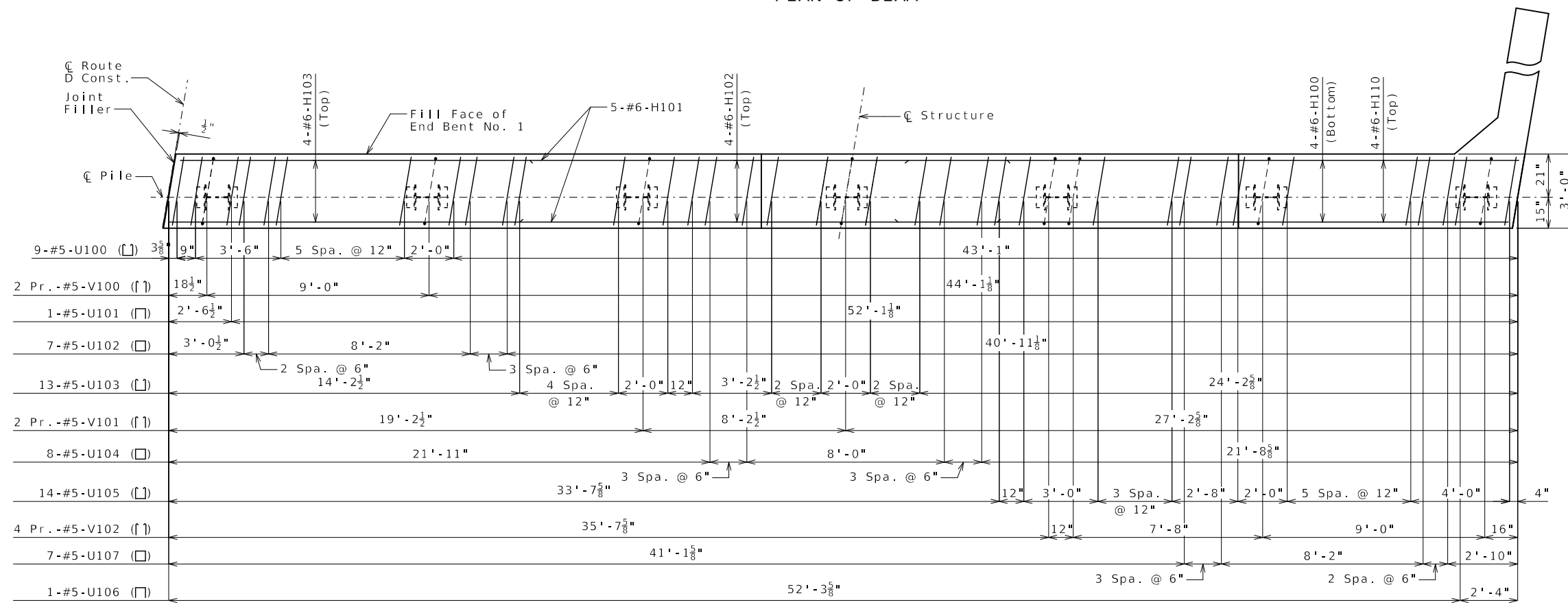
(1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



SECTION THRU KEY



TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD



PLAN OF BEAM SHOWING REINFORCEMENT

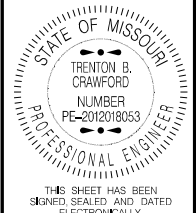
Notes:
Work this sheet with Sheets No. 4 & 5.
Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.
The U bars and pairs of V bars shall be placed parallel to the centerline of roadway.

DETAILS OF END BENT NO. 1

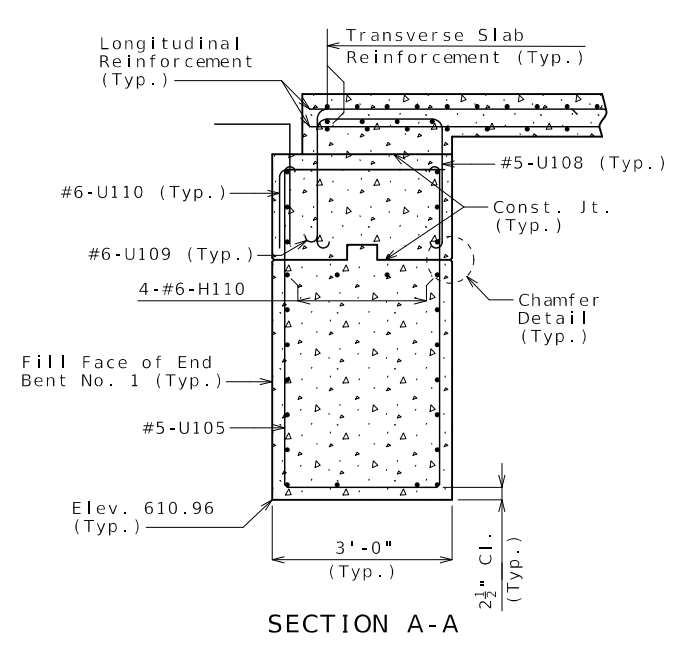
Substructure Quantity Table for Bent No. 1		
Item	Quantity	
Class 1 Excavation	cu. yard	55
Galvanized Structural Steel Piles (12 in.)	linear foot	140
Pile Point Reinforcement	each	7
Class B Concrete (Substructure)	cu. yard	29.1

These quantities are included in the Estimated Quantities table on Sheet No. 2.

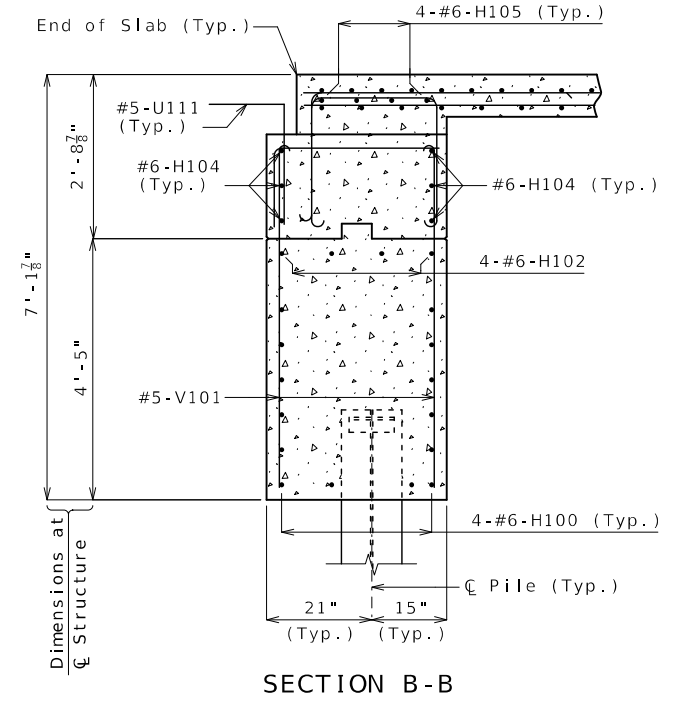
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 DATE
 DESCRIPTION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



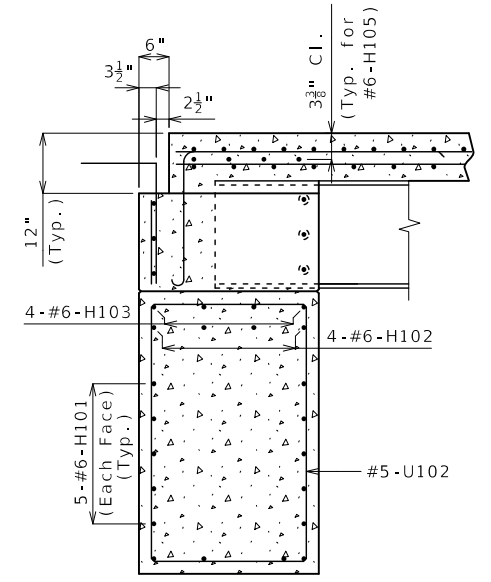
DATE PREPARED 1/30/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 5
COUNTY ST LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9478	



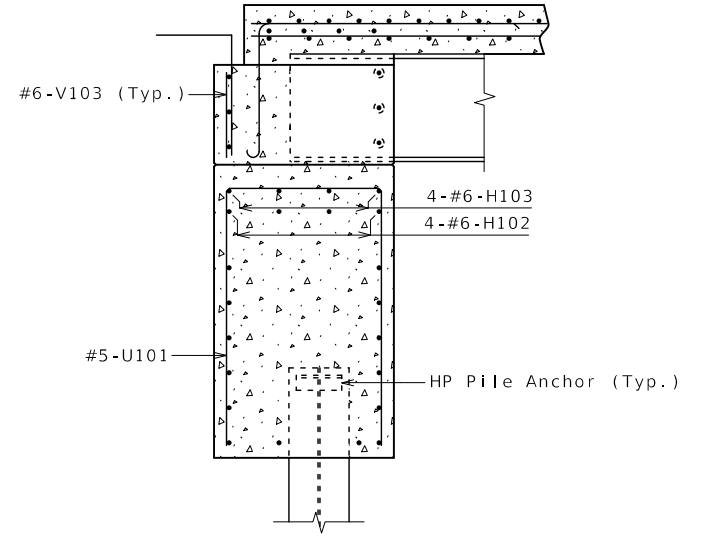
SECTION A-A



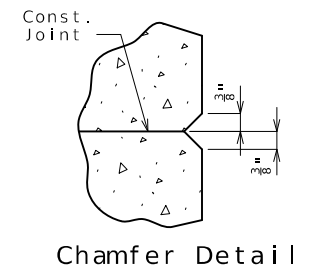
SECTION B-B



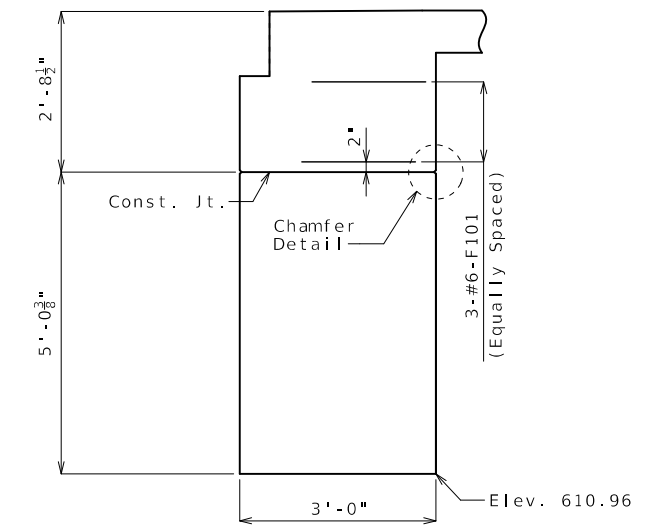
SECTION C-C



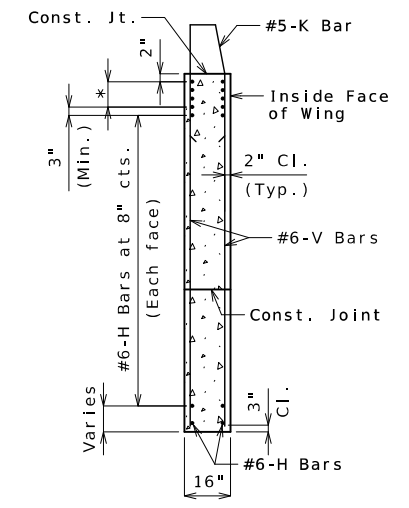
SECTION D-D



Chamfer Detail

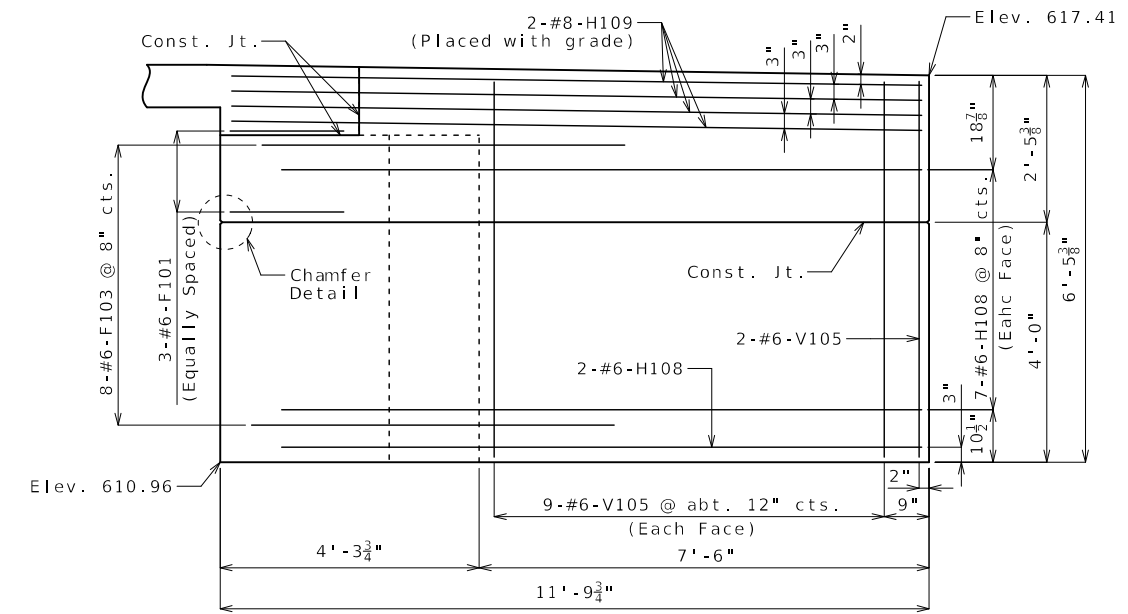


ELEVATION E-E



TYPICAL SECTION THRU WING

* #8-H Bars at 3" cts. (Each face) (Place with grade)



ELEVATION F-F

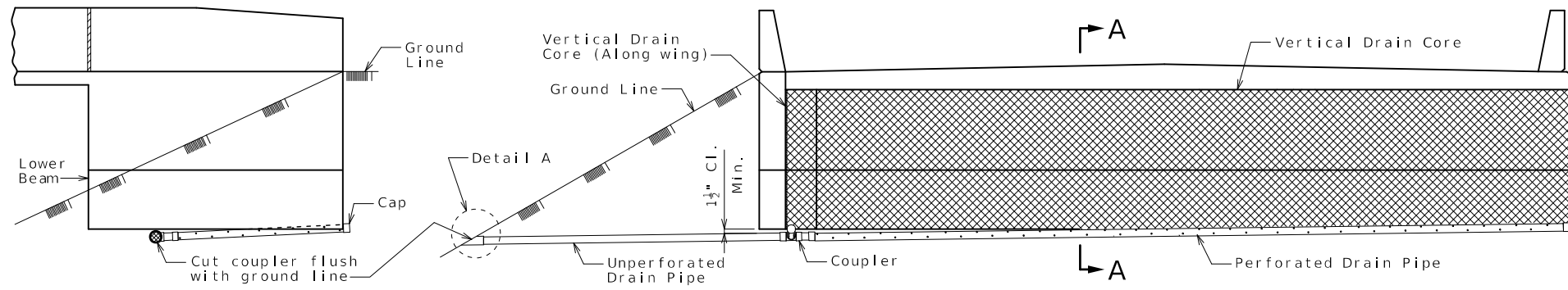
Notes:
Work this sheet with Sheets No. 3 & 4.
For reinforcement of the barrier, see Sheets No. 23, 24 & 25.

DETAILS OF END BENT NO. 1

DESCRIPTION	DATE

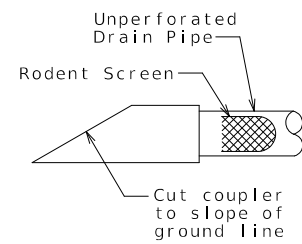
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

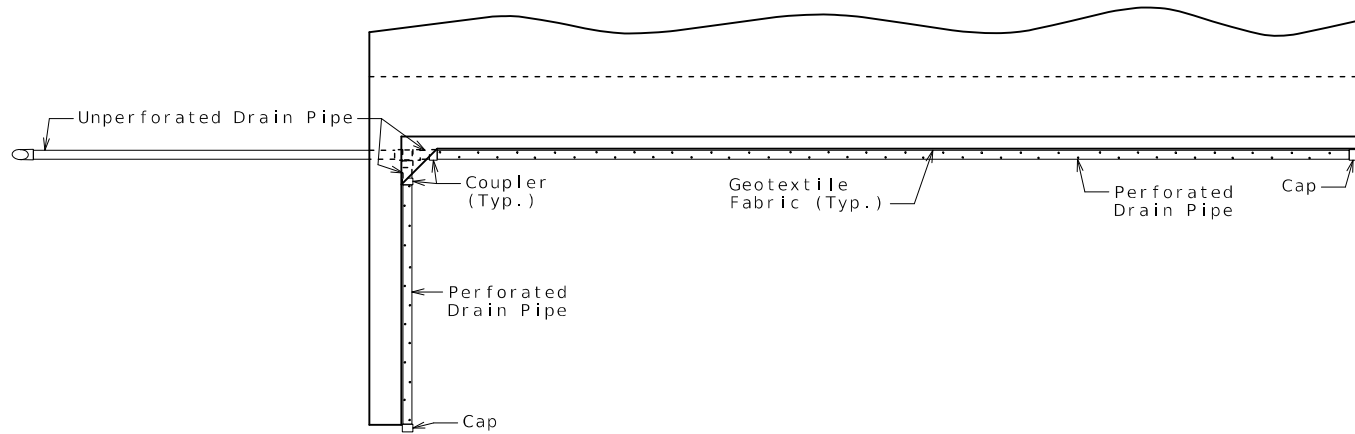


ELEVATION OF WING

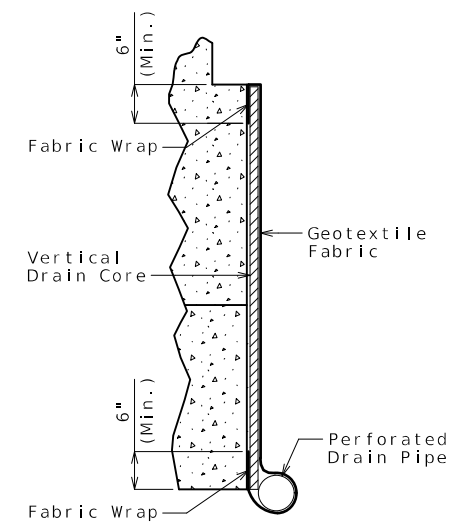
ELEVATION OF END BENT



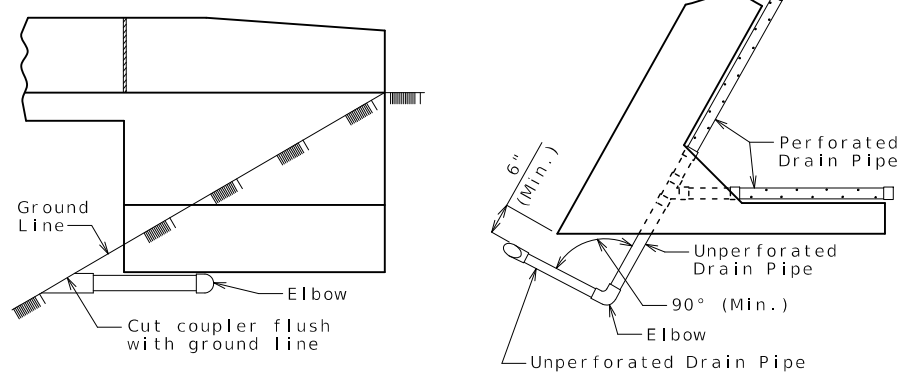
DETAIL A



PLAN OF END BENT



PART SECTION A-A
(Section thru wing similar)



ELEVATION OF WING

PART PLAN

OPTIONAL TURNED DRAIN

(Use only when straight drain is not practical.)

VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)

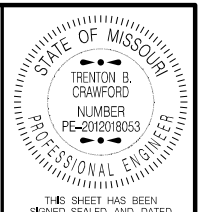
General Notes:

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.



DATE PREPARED 1/30/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY ST LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9478	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2025

ROUTE D STATE MO
DISTRICT BR SHEET NO. 8

COUNTY
ST LOUIS

JOB NO.
J6S3626

CONTRACT ID.

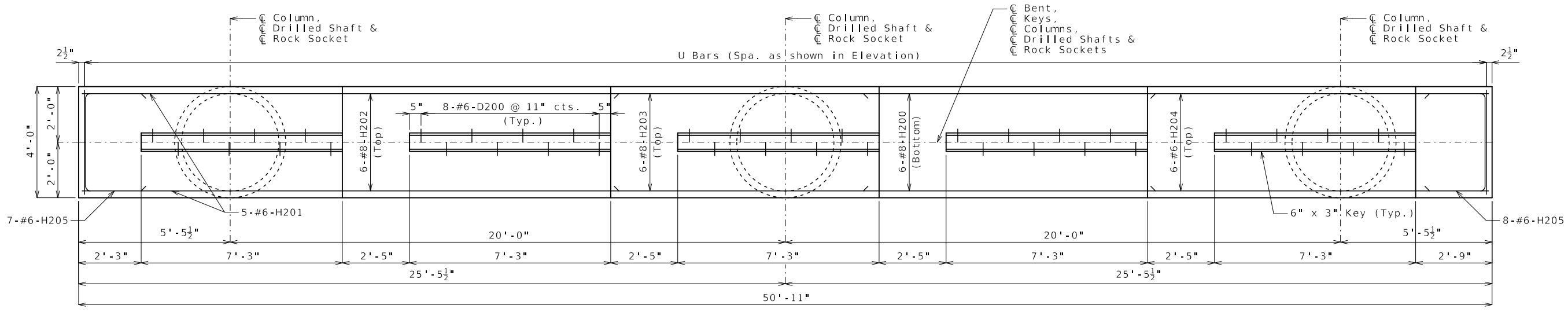
PROJECT NO.

BRIDGE NO.
A9478

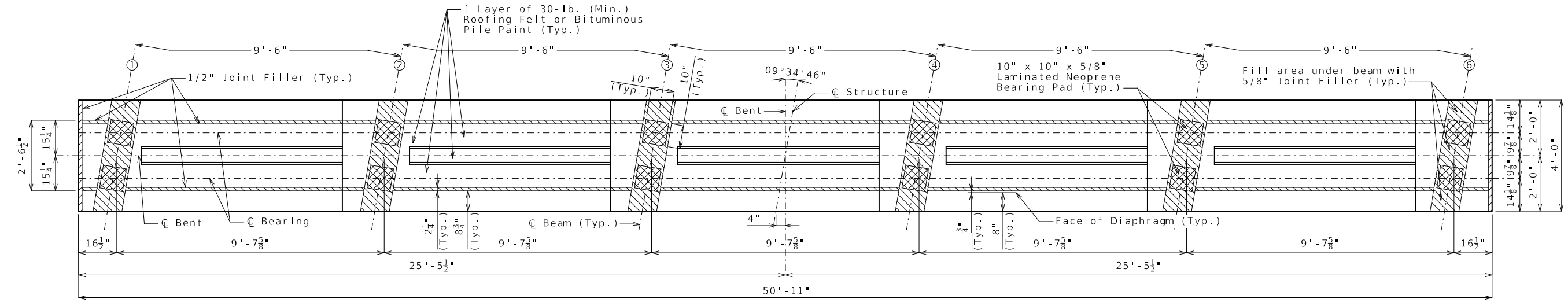
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



PLAN OF BEAM SHOWING REINFORCEMENT

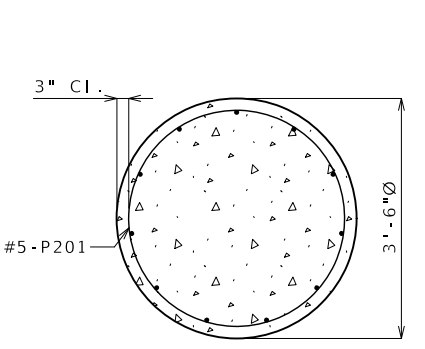


PLAN OF BEAM

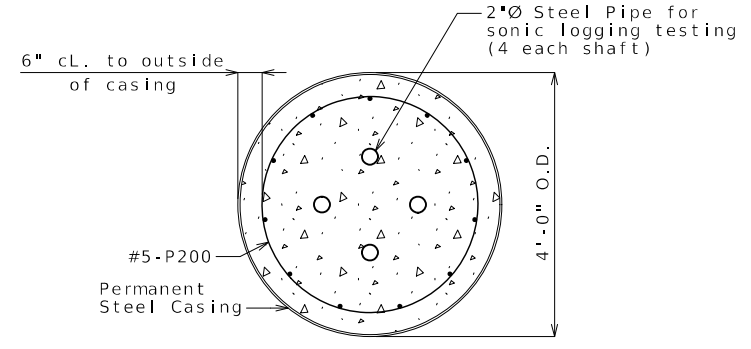
Item	Quantity
Drilled Shafts (4 ft. 0 in. Diameter)	linear foot 15.0
Rock Sockets (3 ft. 6 in. Diameter)	linear foot 31.5
Video Camera Inspection	each 3
Foundation Inspection Holes	linear foot 61.5
Sonic Logging Testing	each 3
Class B Concrete (Substructure)	cu. yard 48.9
Reinforcing Steel (Stainless Steel)	pound 13,220

These quantities are included in the Estimated Quantities table on Sheet No. 2.

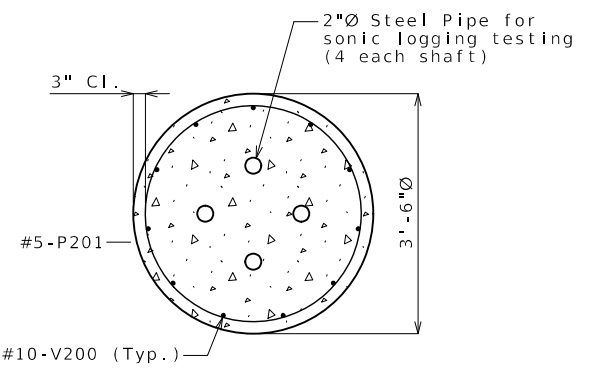
All reinforcement in drilled shaft and rock sockets is included in the Substructure Quantities.



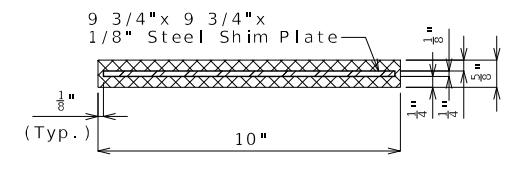
SECTION C-C (COLUMN)



SECTION D-D (SHAFT)



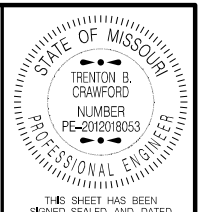
SECTION E-E (ROCK SOCKET)



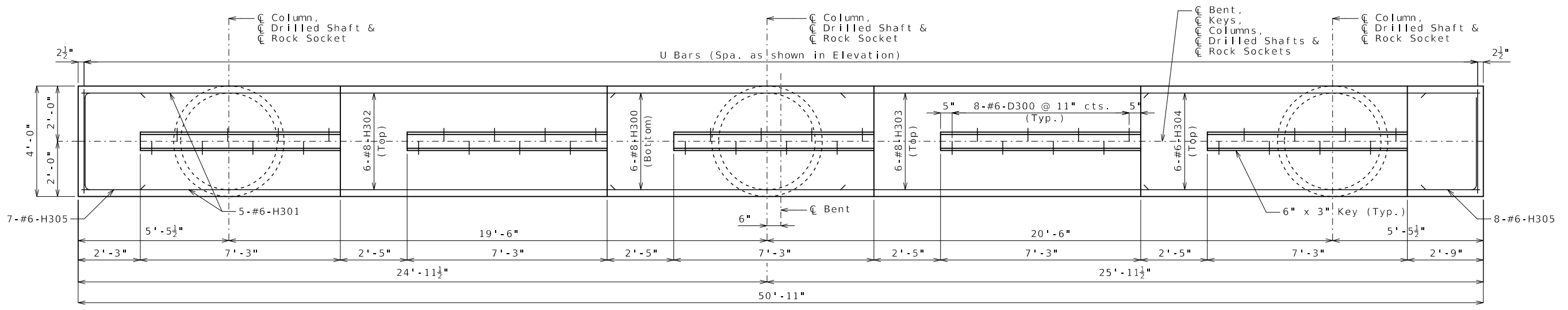
TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD

Notes:
Work this sheet with Sheet No. 7.
For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

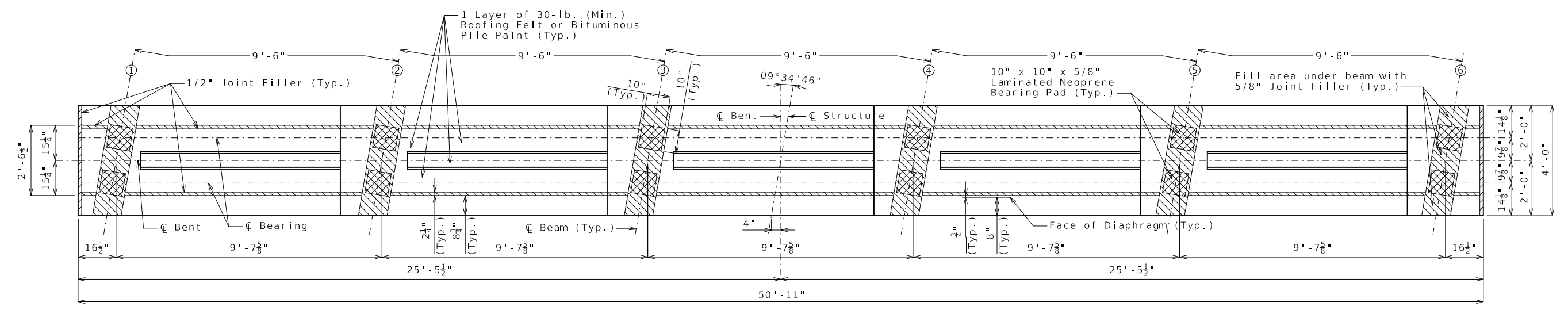
DETAILS OF INTERMEDIATE BENT NO. 2



DATE PREPARED 1/30/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 10
COUNTY ST LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9478	



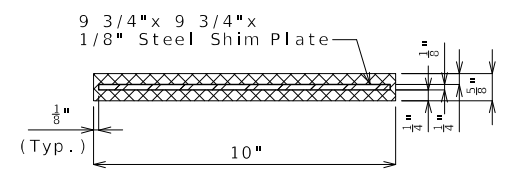
PLAN OF BEAM SHOWING REINFORCEMENT



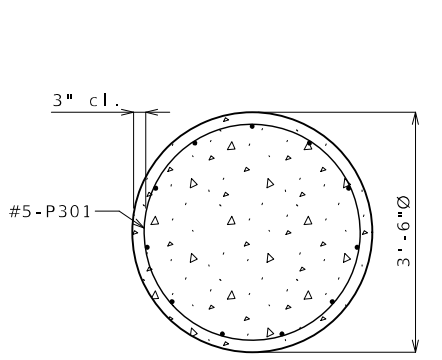
PLAN OF BEAM

Item	Quantity
Drilled Shafts (4 ft. 0 in. Diameter)	linear foot 30.0
Rock Sockets (3 ft. 6 in. Diameter)	linear foot 30.0
Video Camera Inspection	each 3
Foundation Inspection Holes	linear foot 60.0
Sonic Logging Testing	each 3
Class B Concrete (Substructure)	cu. yard 48.8
Reinforcing Steel (Stainless Steel)	pound 14,130

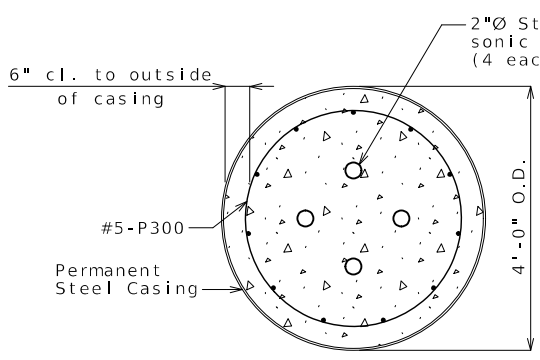
These quantities are included in the Estimated Quantities table on Sheet No. 2.
All reinforcement in drilled shafts and rock sockets is included in the Substructure Quantities.



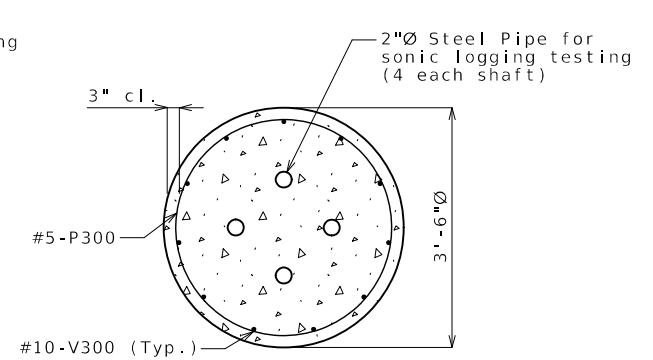
TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD



SECTION C-C (COLUMN)



SECTION D-D (SHAFT)



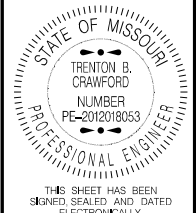
SECTION E-E (ROCK SOCKET)

Notes:
Work this sheet with Sheet No. 9.
For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

DETAILS OF INTERMEDIATE BENT NO. 3

DESCRIPTION	DATE

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



DATE PREPARED
1/30/2025

ROUTE D STATE MO

DISTRICT BR SHEET NO. 13

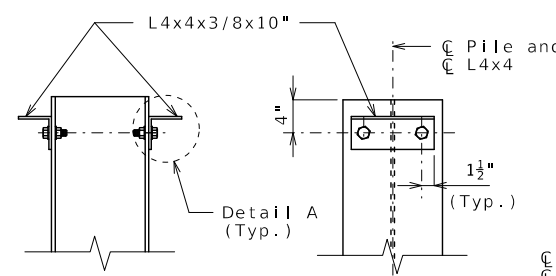
COUNTY ST LOUIS

JOB NO. J6S3626

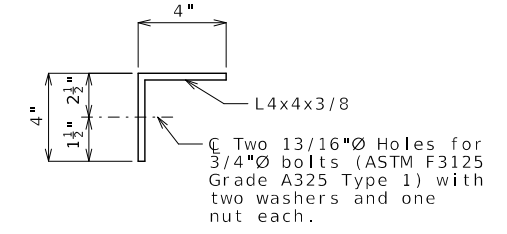
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9478

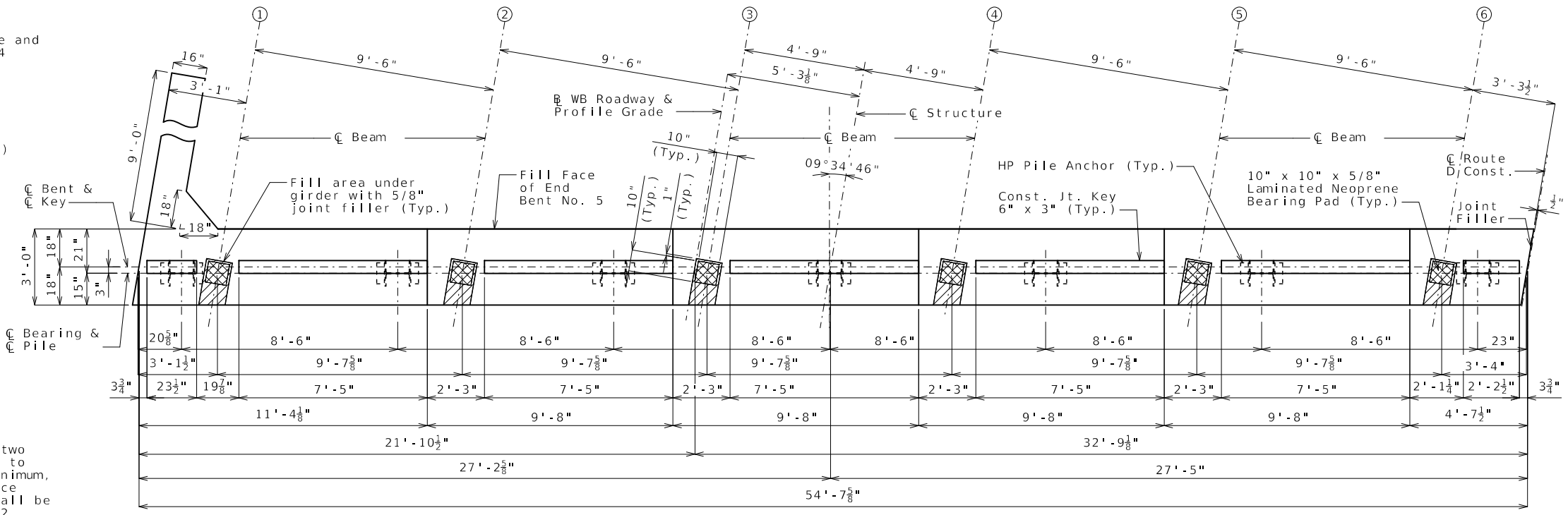


DETAILS OF HP PILE ANCHORS

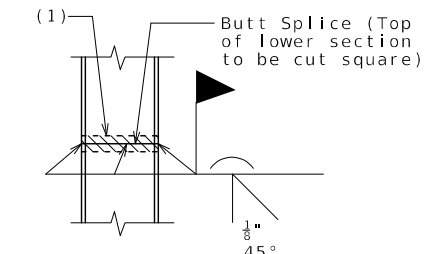


DETAIL A

Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

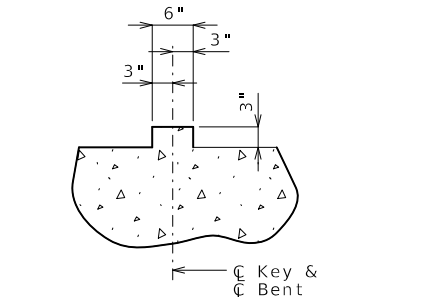


PLAN OF BEAM

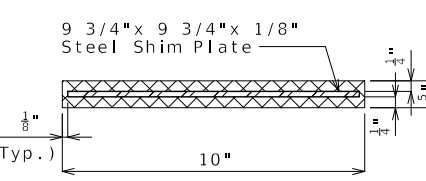


STEEL PILE SPLICE

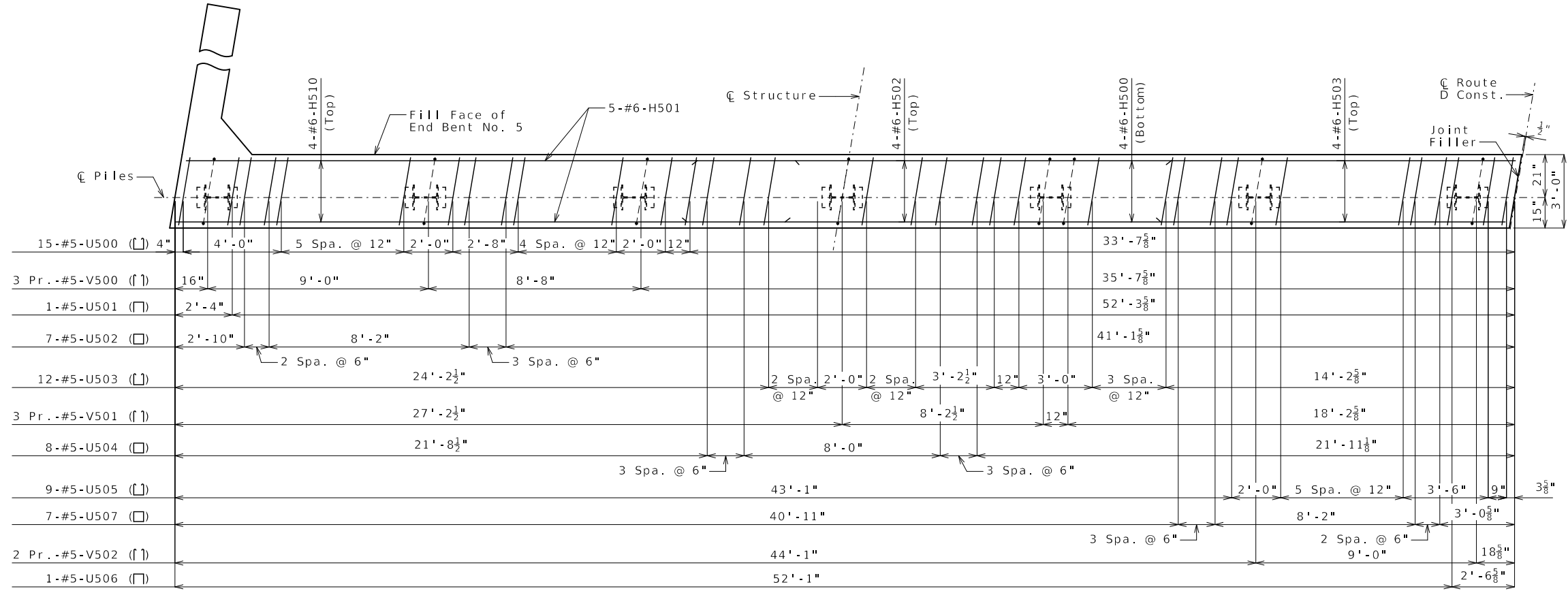
(1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



SECTION THRU KEY



TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD



PLAN OF BEAM SHOWING REINFORCEMENT

Keys not shown for clarity.

Notes:

- Work this sheet with Sheets No. 14 & 15.
- Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.
- The U bars and pairs of V bars shall be placed parallel to the centerline of roadway.

Substructure Quantity Table for Bent No. 5			
Item	Quantity	Unit	Quantity
Class 1 Excavation	55	cu. yard	
Galvanized Structural Steel Piles (12 in.)	308	linear foot	
Pile Point Reinforcement	7	each	
Class B Concrete (Substructure)	28.6	cu. yard	

These quantities are included in the Estimated Quantities table on Sheet No. 2.

DETAILS OF END BENT NO. 5

Detailed Oct. 2024
Checked Nov. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 13 of 34

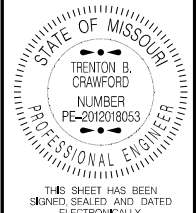
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

DESCRIPTION

DATE



DATE PREPARED
1/30/2025

ROUTE D STATE MO
DISTRICT BR SHEET NO. 14

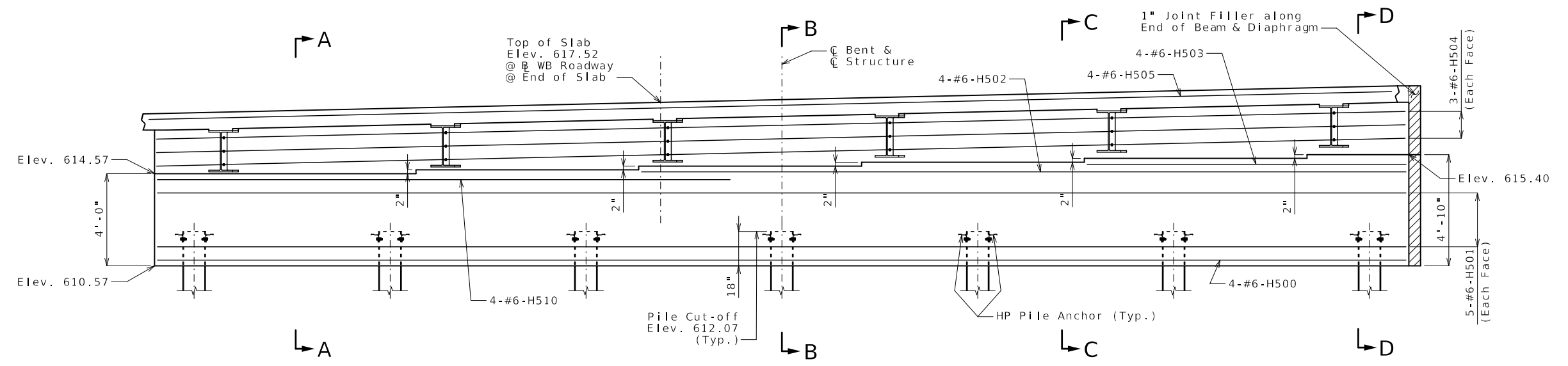
COUNTY
ST LOUIS

JOB NO.
J6S3626

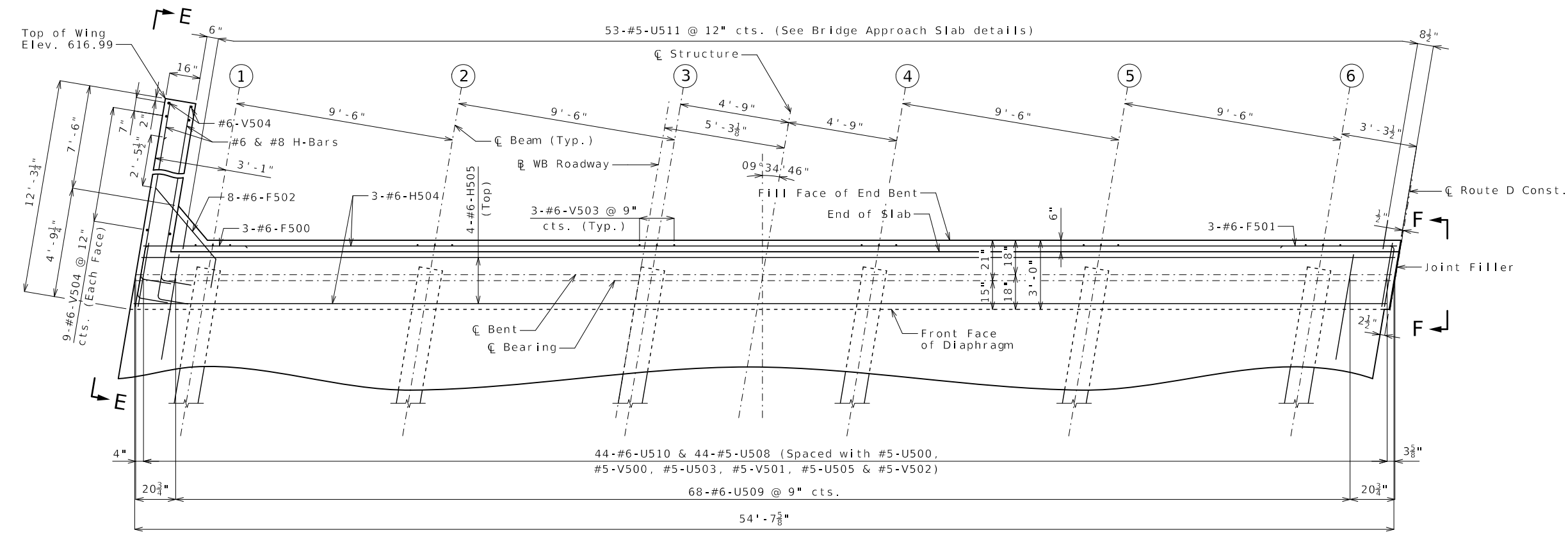
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9478



SECTION NEAR END BENT
(Keys not shown for clarity)



PLAN OF BEAM

Notes:

- Work this sheet with Sheets No. 13 & 15.
- For details of vertical drain at end bents, see Sheet No. 6.
- All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
- For Sections A-A thru D-D and Elevations E-E & F-F, see Sheet No. 15.
- For details of bridge approach slab, see Sheet No. 26.
- Concrete diaphragms at the integral end bents shall be poured a minimum of 12 hours before slab is poured.
- The #6-F502 bars shall be bent in the field to clear beams.
- The U bars bars shall be placed parallel to centerline of roadway.

DETAILS OF END BENT NO. 5

Detailed Oct. 2024
Checked Nov. 2024

Note: This drawing is not to scale. Follow dimensions.

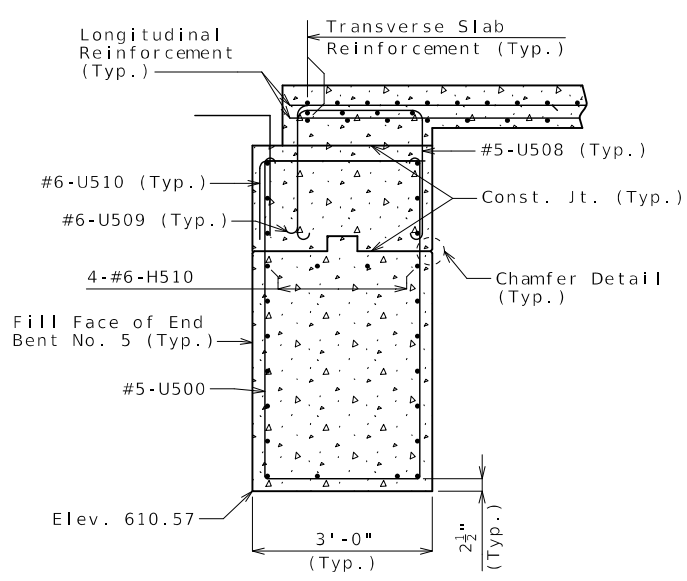
Sheet No. 14 of 34

DESCRIPTION	DATE

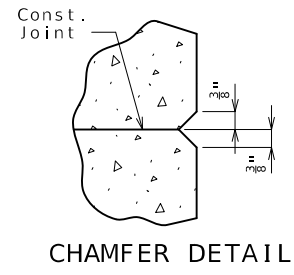
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

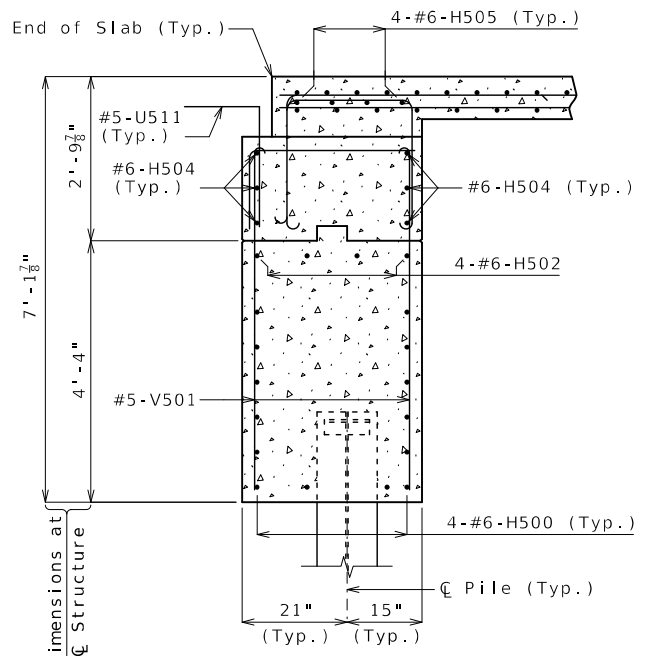
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



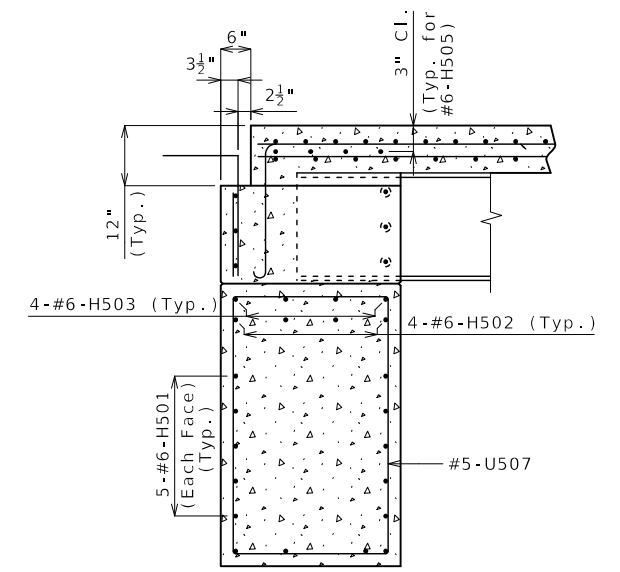
SECTION A-A



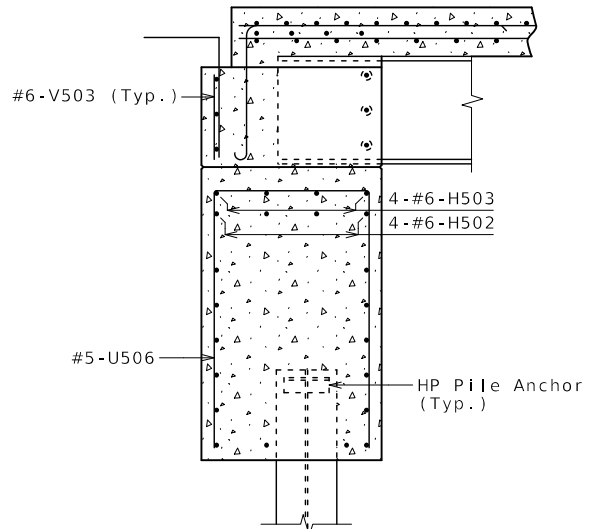
CHAMFER DETAIL



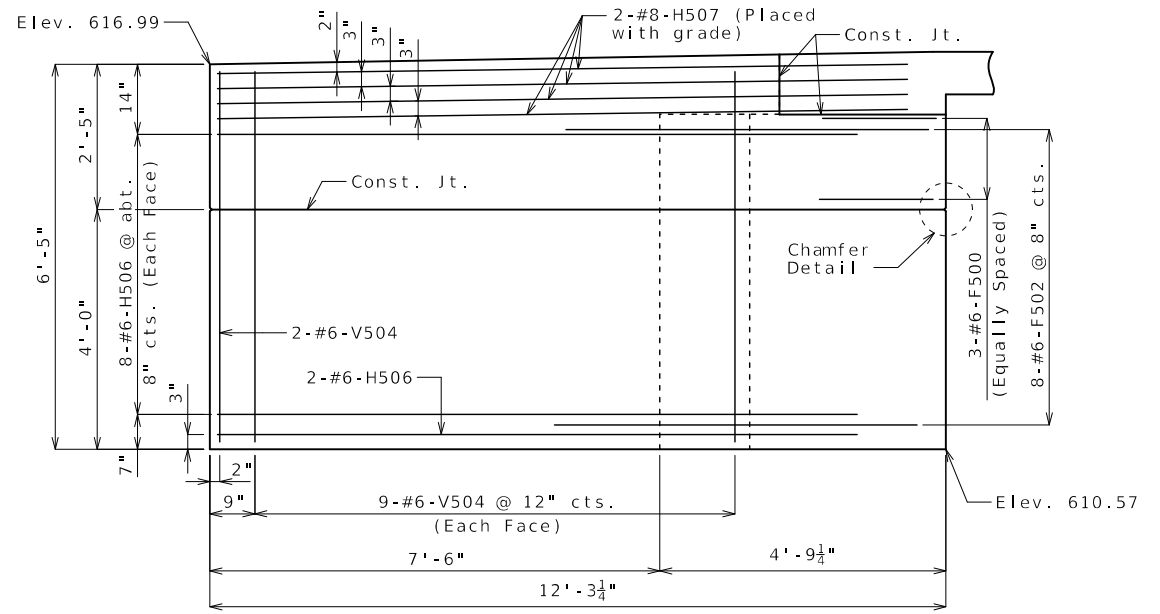
SECTION B-B



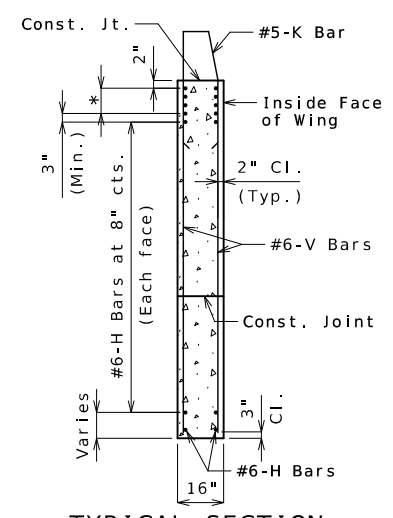
SECTION C-C



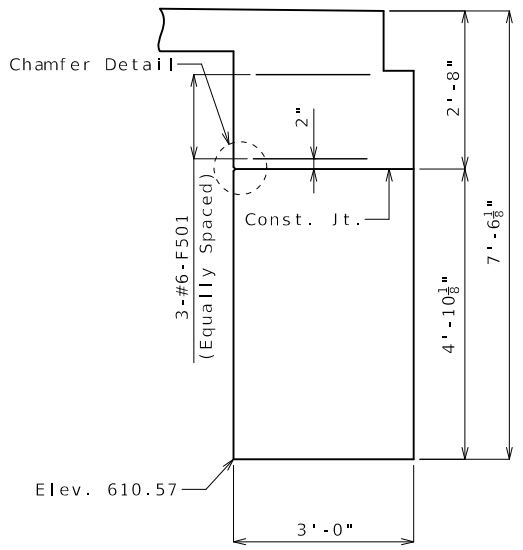
SECTION D-D



ELEVATION E-E



TYPICAL SECTION THRU WING
* #8-H Bars at 3" cts. (Each face) (Place with grade)



ELEVATION F-F

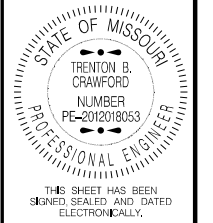
Notes:
Work this sheet with Shets No. 13 & 14.
For reinforcement of the barrier, see Sheets No. 23, 24 & 25.

DETAILS OF END BENT NO. 5

Detailed Oct. 2024
Checked Nov. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 34

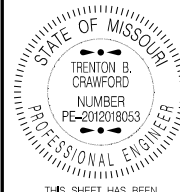


DATE PREPARED 1/30/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 15
COUNTY ST LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9478	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

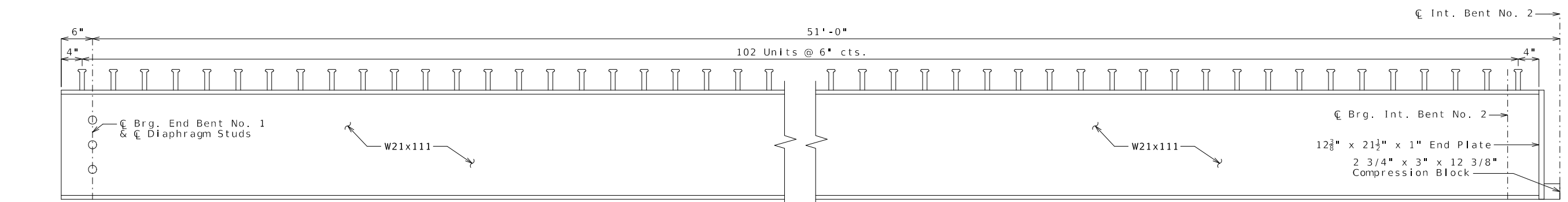


DATE PREPARED
1/30/2025
ROUTE STATE
D MO
DISTRICT SHEET NO.
BR 17
COUNTY
ST LOUIS
JOB NO.
J6S3626
CONTRACT ID.

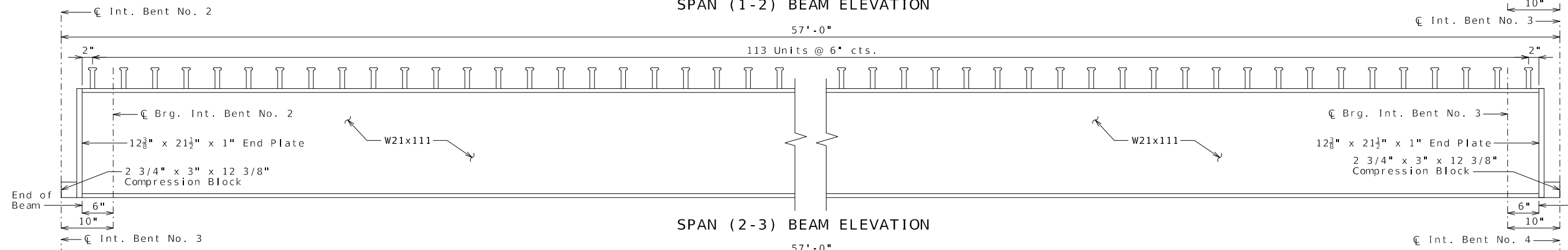
PROJECT NO.
BRIDGE NO.
A9478

DESCRIPTION

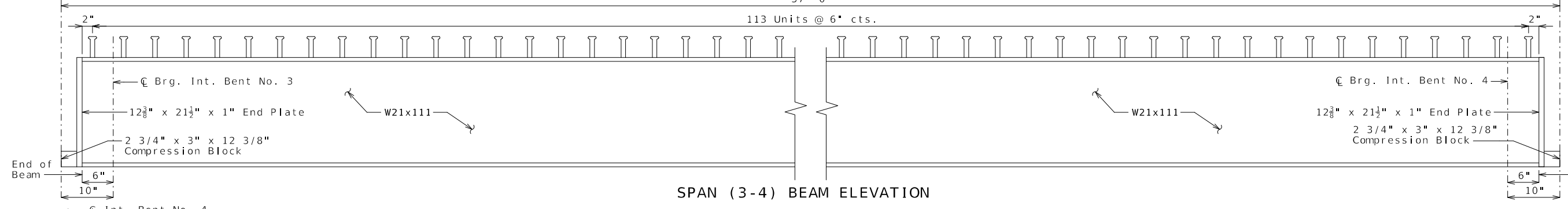
DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



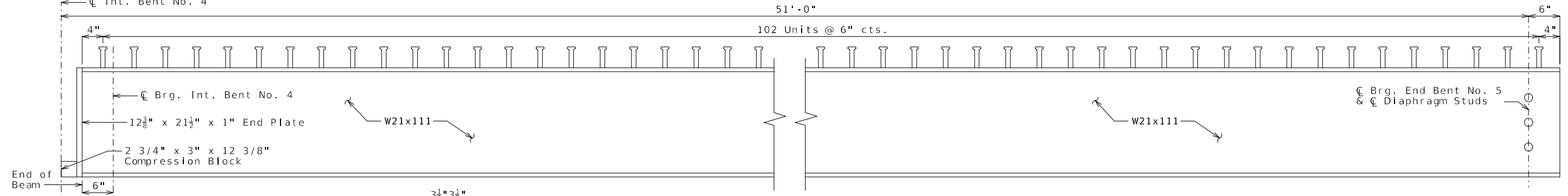
SPAN (1-2) BEAM ELEVATION



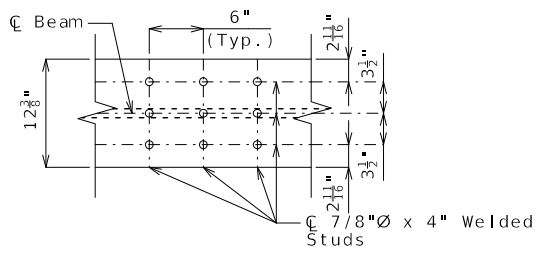
SPAN (2-3) BEAM ELEVATION



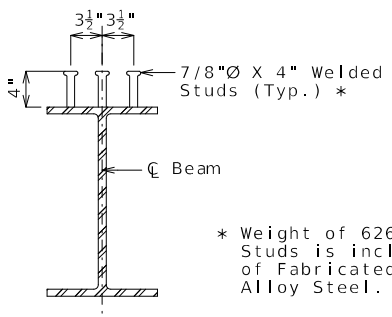
SPAN (3-4) BEAM ELEVATION



SPAN (4-5) BEAM ELEVATION



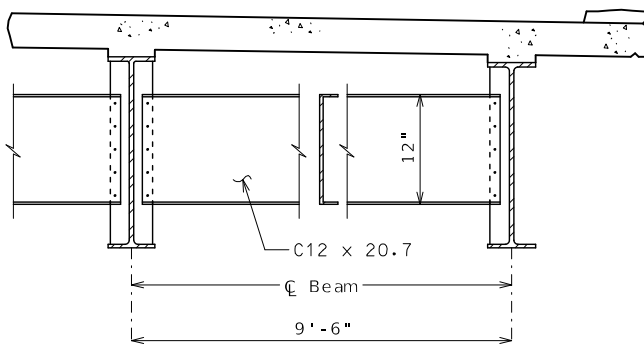
DETAILS OF SHEAR CONNECTORS



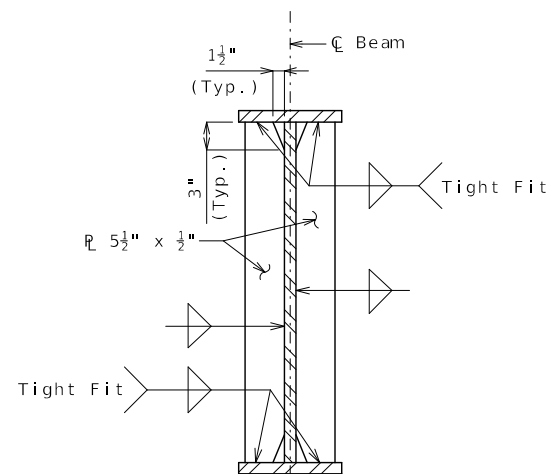
* Weight of 6269 pounds of Welded Studs is included in the weight of Fabricated Structural Low Alloy Steel.

Notes:
Notch toughness is required for all wide flange beams.
Longitudinal dimensions shown in the Beam Elevations are horizontal dimensions.
Fabricated structural steel shall be ASTM A709 Grade 50, except as noted.
Structural steel shall be galvanized in accordance with ASTM A123 & Sec 1081.
Shear connectors shall be in accordance with Sec 712, 1037 and 1080.

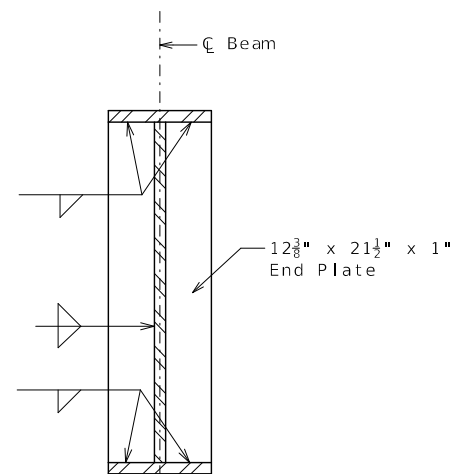
BEAM ELEVATION



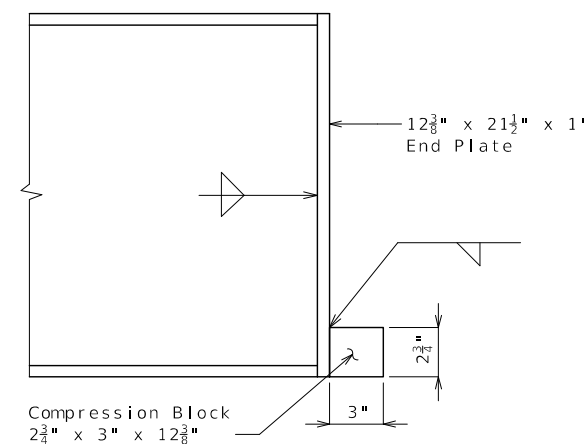
TYPICAL PART SECTION SHOWING INTERMEDIATE DIAPHRAGMS



INTERMEDIATE DIAPHRAGM CONNECTION PLATE



END PLATE AT INTERMEDIATE BENTS
(Looking from midspan towards end of beam)



END PLATE AT INTERMEDIATE BENTS
(Looking transverse to bridge)

WELDING DETAILS

Notes:

A the contractor's option, holes in the diaphragm plate of non slab bearing diaphragms may be made 3/16" larger than the nominal diameter of the bolt. A hardened washer shall be used under the bolt head and nut when this option is used. Holes in the girder diaphragm connection plate or transverse web stiffener shall be standard size.

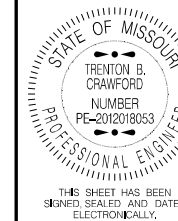
Field connections shall be made with 3/4-inch diameter ASTM F3125 Grade A325 Typ 1 bolts and 13/16-inch diameter holes, except as noted.

Fabricated structural steel shall be ASTM A709 Grade 50, except as noted.

Structural steel shall be galvanized in accordance with ASTM A123 & Sec 1081.

For locations of intermediate diaphragms, see Framing Plan on Sheet No. 16.

STEEL DETAILS



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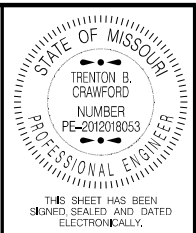
DESCRIPTION

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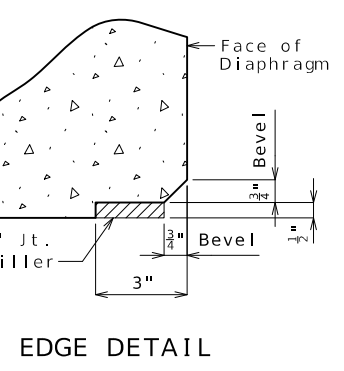
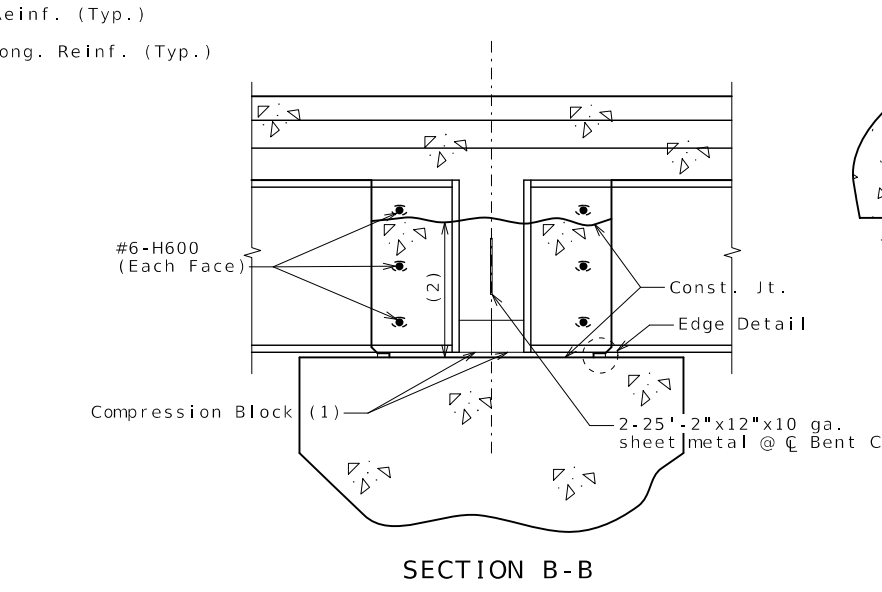
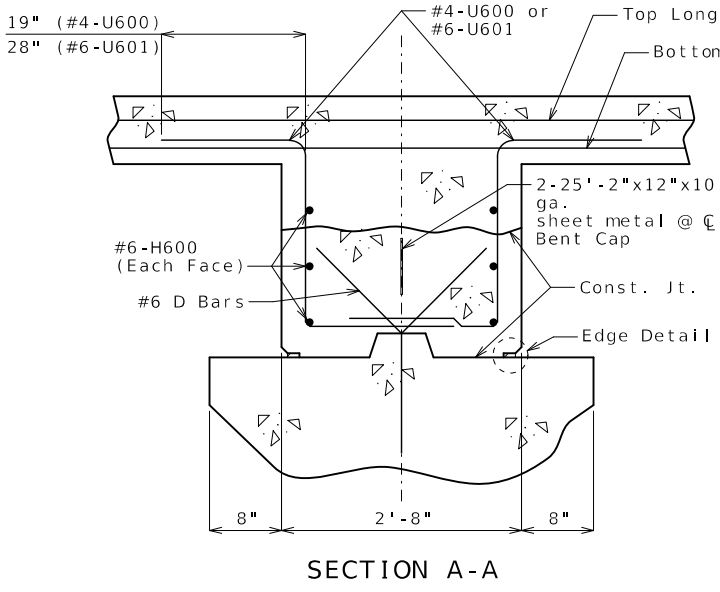
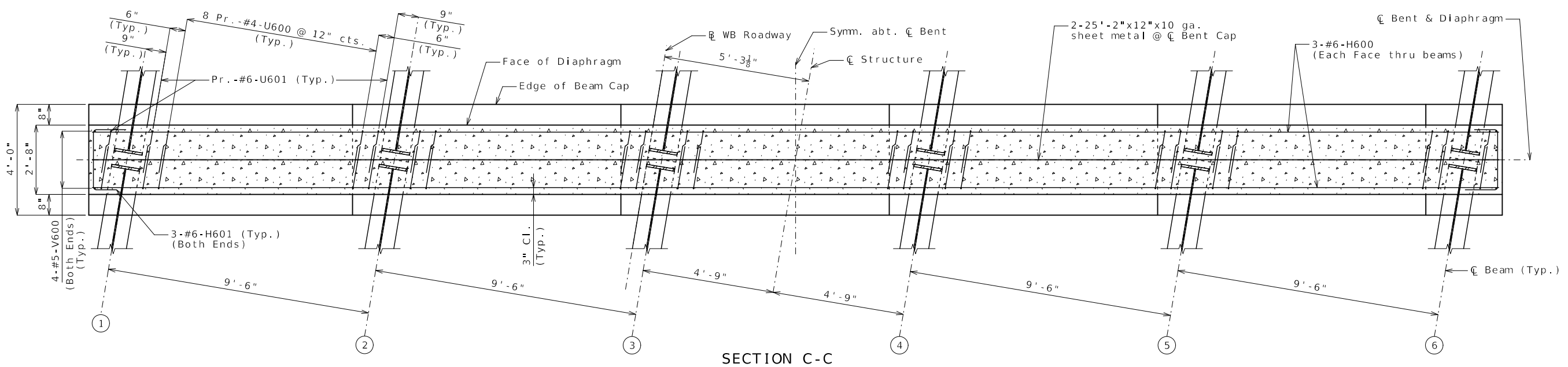
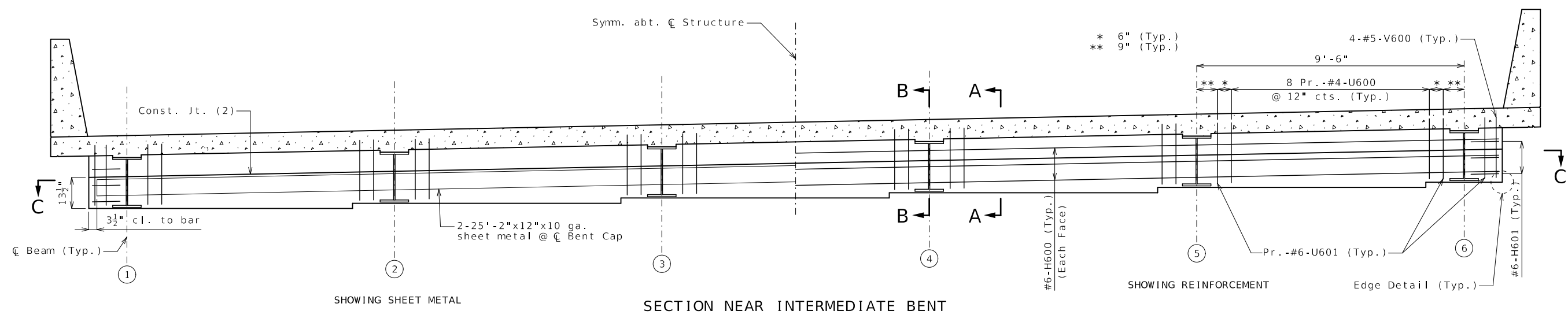
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DISTRICT BR	SHEET NO. 19
COUNTY ST LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9478	



- Notes:
- Diaphragms at intermediate bents shall be built vertical.
 - All U bars in diaphragm shall be placed parallel to C Roadway.
 - All reinforcement in the intermediate bent concrete diaphragms except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Steel.
 - All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Steel.
 - Concrete diaphragm below construction joint will be poured a minimum of 12 hours before the slab is poured.
 - Sheet metal in Intermediate Diaphragms shall be Grade 40 and coated in accordance with ASTM 653, coating designation G165. Sheet Metal is included in the Estimated Quantities for Slab on Steel.
 - (1) Vertical face of compression blocks shall be in partial contact. Full contact throughout block height is not necessary. Vertical faces of adjacent blocks shall overlap a minimum of 2 1/4".
 - (2) Varies, match roadway cross slope on top. Sheet Metal may rest on D Bars when pouring diaphragm.

CONCRETE DIAPHRAGMS AT INTERMEDIATE BENTS NO. 2,3 & 4

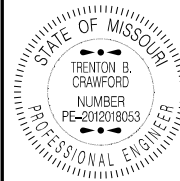
Detailed Nov. 2024
Checked Nov. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 19 of 34

DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
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COUNTY ST LOUIS

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CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9478

DESCRIPTION

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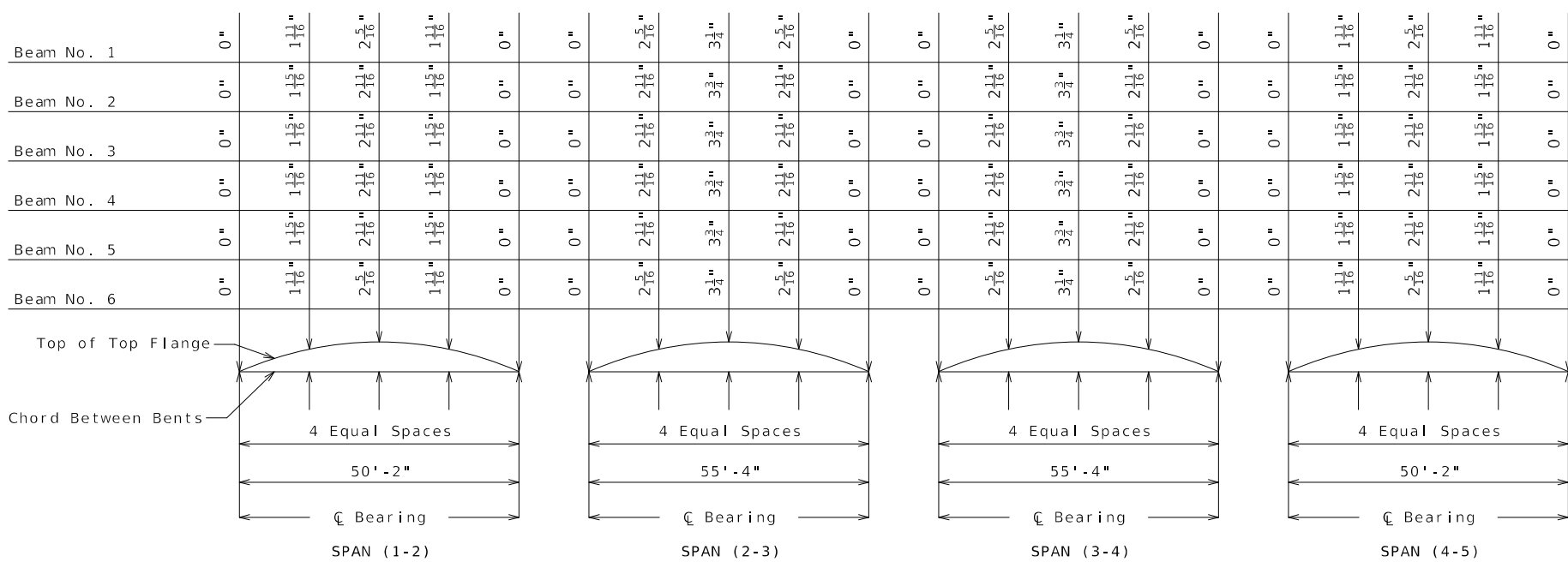
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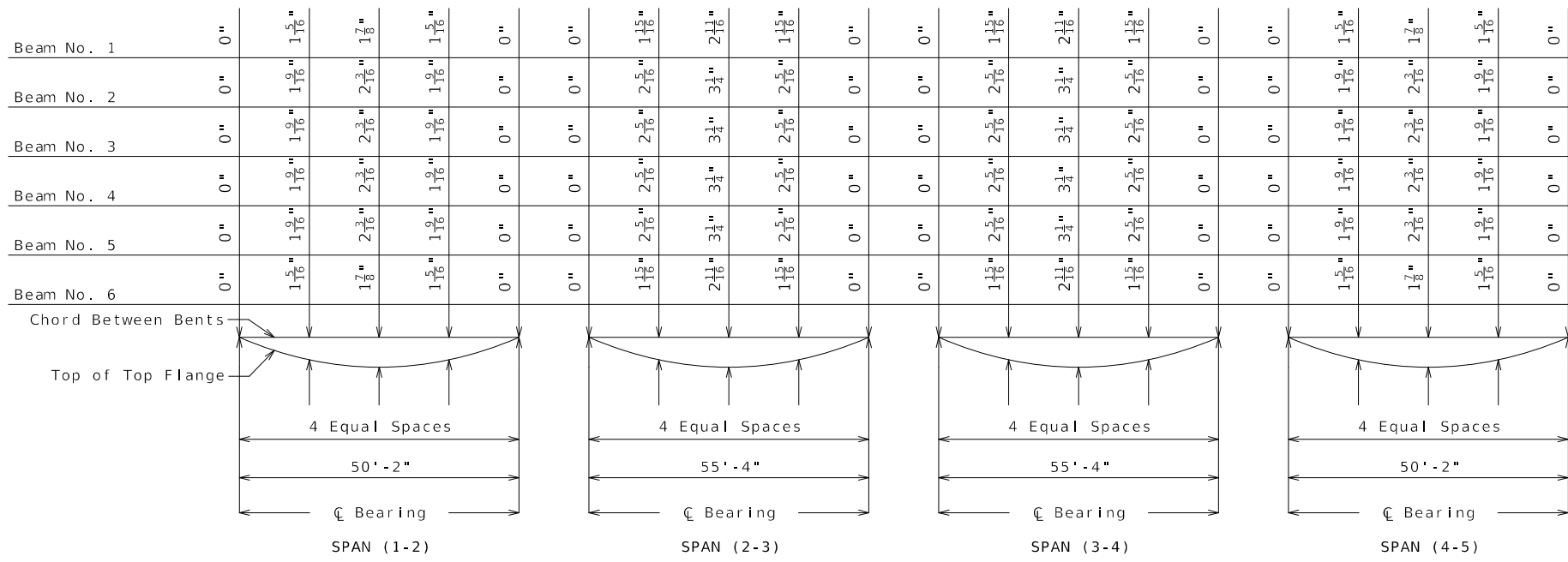
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BEAM CAMBER DIAGRAM

Camber includes allowance for vertical curve, and for dead load deflection due to concrete slab, barrier, and structural steel.

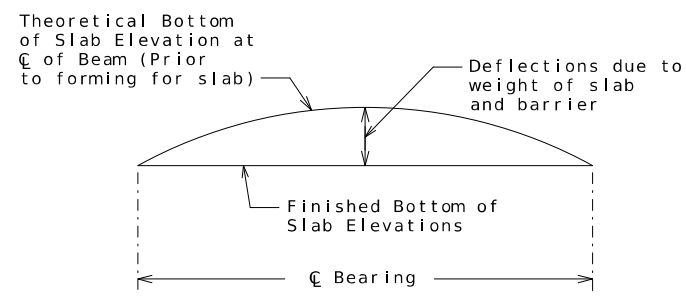


DEAD LOAD DEFLECTION

11% (Exterior Beams) of dead load deflection is due to the weight of structural steel.
9% (Interior Beams) of dead load deflection is due to the weight of structural steel.
Dead load deflection includes weight of structural steel, concrete slab, and barrier.

THEORETICAL SLAB HAUNCH

* Dimension (bottom of slab to top of top flange) may vary if beam camber after erection differs from plan camber by more than the % of Dead Load Deflection due to weight of structural steel. No payment will be made for any adjustment in forming or additional concrete required for variation in haunching.



TYPICAL SLAB ELEVATIONS DIAGRAM

Theoretical Bottom of Slab Elevations at Centerline of Beam (Prior to forming for slab) (Estimated at 90 days)

Beam Number	Span (1-2) (50'-2" C Brg. - C Brg.)				Span (2-3) (55'-4" C Brg. - C Brg.)				Span (3-4) (55'-4" C Brg. - C Brg.)				Span (4-5) (50'-2" C Brg. - C Brg.)							
	C Brg.	.25	.50	.75	C Brg.	.25	.50	.75	C Brg.	.25	.50	.75	C Brg.	.25	.50	.75	C Brg.			
1	616.89	617.12	617.27	617.32	617.29	617.30	617.50	617.59	617.54	617.39	617.38	617.49	617.48	617.34	617.10	617.08	617.06	616.97	616.77	616.50
2	617.10	617.35	617.50	617.54	617.49	617.50	617.72	617.82	617.76	617.57	617.57	617.70	617.71	617.55	617.27	617.26	617.26	617.17	616.96	616.67
3	617.31	617.55	617.70	617.74	617.69	617.69	617.92	618.02	617.95	617.76	617.76	617.89	617.89	617.73	617.45	617.43	617.43	617.34	617.13	616.83
4	617.51	617.75	617.90	617.94	617.88	617.89	618.11	618.21	618.14	617.95	617.94	618.07	618.07	617.91	617.62	617.61	617.61	617.51	617.30	617.00
5	617.72	617.96	618.11	618.14	618.08	618.09	618.31	618.40	618.33	618.13	618.13	618.25	618.25	618.09	617.80	617.78	617.78	617.68	617.47	617.17
6	617.93	618.14	618.28	618.32	618.28	618.28	618.47	618.55	618.49	618.32	618.31	618.40	618.39	618.24	617.98	617.96	617.93	617.82	617.62	617.33

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 and barrier.



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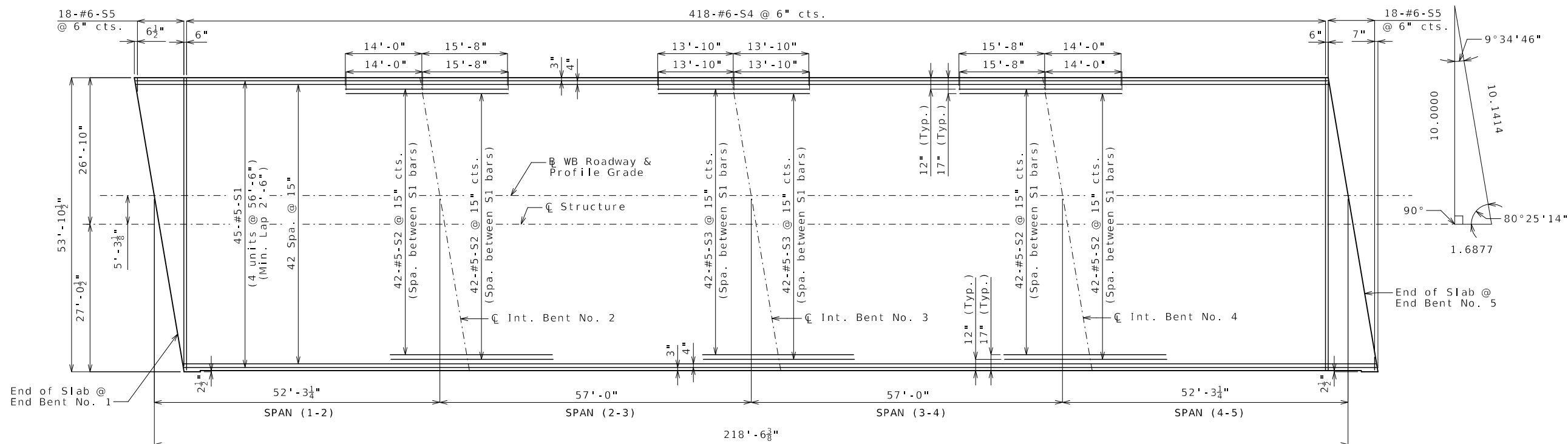
BRIDGE NO.
A9478

DESCRIPTION

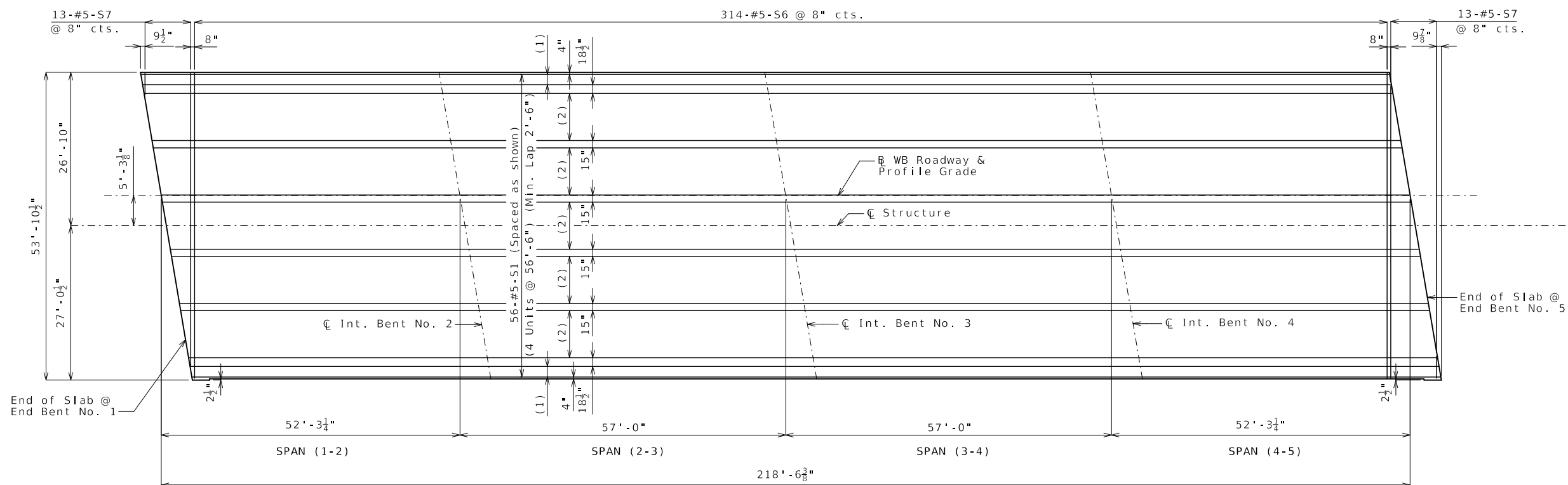
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PLAN OF SLAB SHOWING TOP REINFORCEMENT



PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT

- (1) 2 Spa. @ 11"
- (2) 9 Spa. @ 11"

Notes:

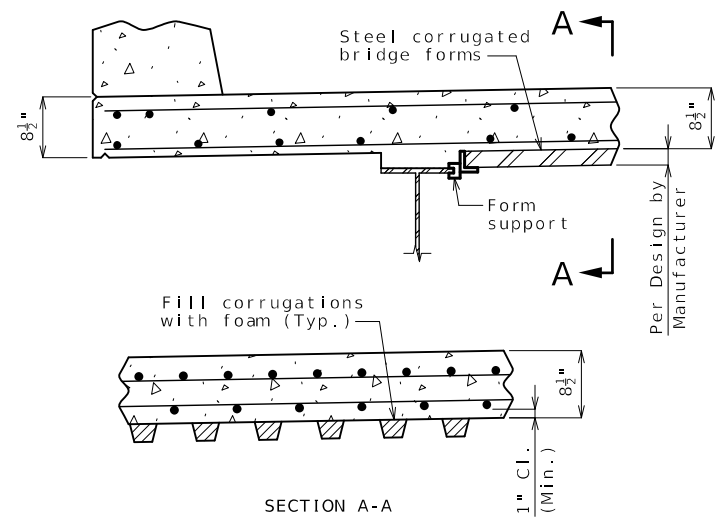
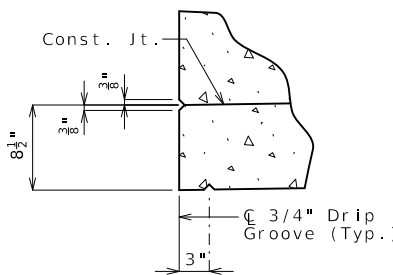
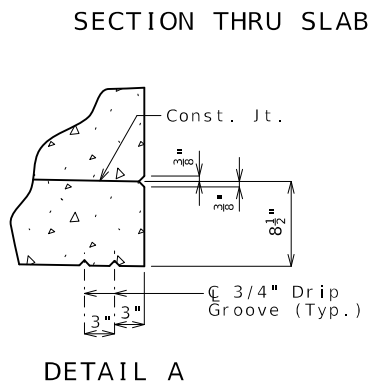
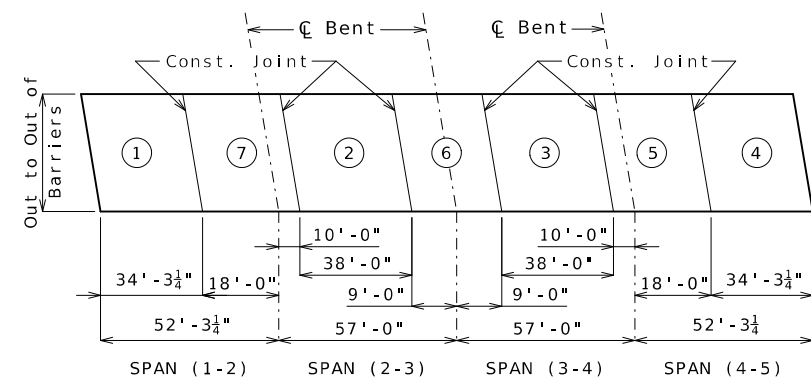
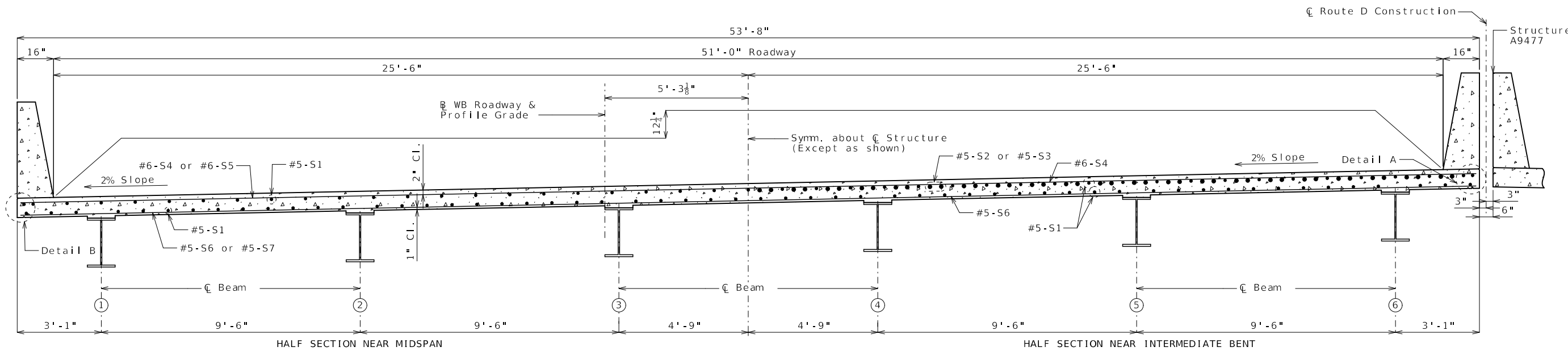
Longitudinal dimensions are measured horizontally.

For Theoretical Bottom of Slab Elevations, Beam Camber Diagram and Theoretical Slab haunching Diagram, see Sheet No. 20.

For Section Thru Slab and Slab Pouring Sequence, see Sheet No. 22.

For details and reinforcement of barrier not shown, see Sheets No. 23, 24 & 25.

SLAB DETAILS

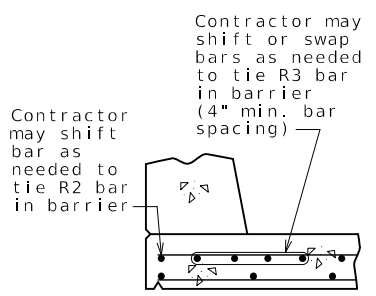


	Sequence of Pours							Min. Rate of Pour Cu. Yds./Hr.			
	Direction							With Retarder	No Retarder		
Basic Sequence	1	2	3	4	5	6	7	25	25		
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.											
Alternate A Pours	1	7 + 2	6 + 3	5 + 4						25	40
Alternate B Pours	1 + 7 + 2	6 + 3	5 + 4							25	40
Alternate C Pours	1 + 7 + 2	6 + 3 + 5 + 4								25	40
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4									25	40

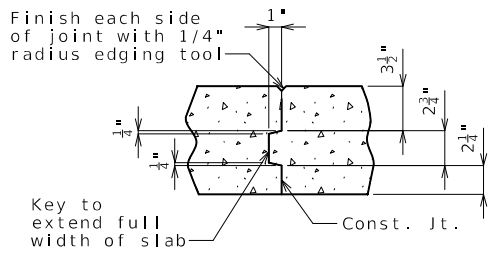
The contractor shall pour and satisfactorily finish the slab pours at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours. The concrete diaphragm of the Intermediate bents and Integral end bents shall be poured a minimum of 12 hours before the slab is poured.

SLAB POURING SEQUENCE

- Notes:
- For reinforcement of barrier not shown, see Sheets No. 23, 24 & 25.
 - For Theoretical Bottom of Slab Elevations, Beam Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. 19.
 - For Plan of Slab Showing Reinforcement, see Sheet No. 21.



OPTIONAL SHIFTING TOP BARS AT BARRIER



SLAB CONSTRUCTION JOINT

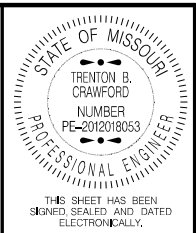
SLAB DETAILS

Stay-In-Place Forms:
Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.
Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

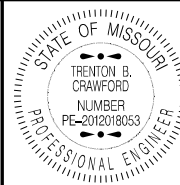
The contractor shall provide a method of preventing the direct contact of the stay-in-place forms and connection components with uncoated weathering steel members that is approved by the engineer.



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CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A9478

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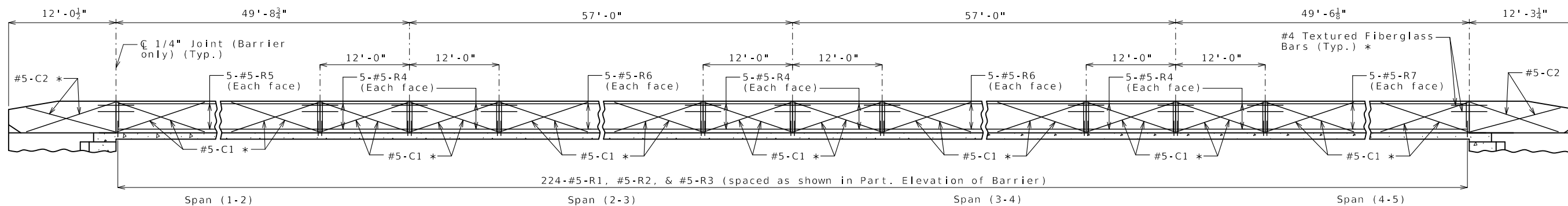
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CONTRACT ID.

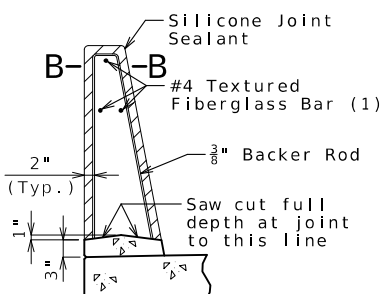
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BRIDGE NO.
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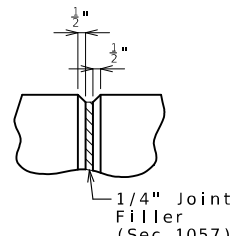


ELEVATION OF BARRIER

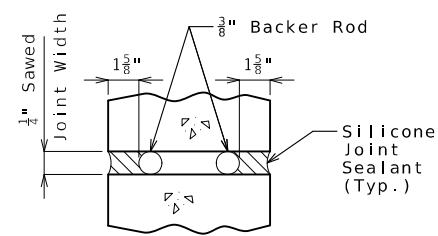
Longitudinal dimensions are horizontal.



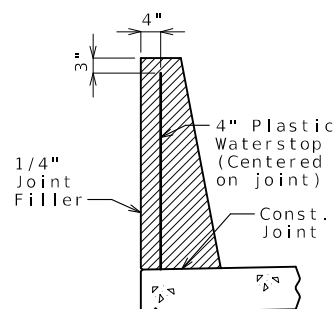
SECTION THRU SAW CUT JOINT



PART ELEVATION AT FORMED JOINT



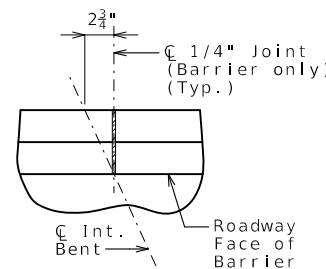
SECTION B-B



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type D Barrier.



PART PLAN SHOWING JOINT LOCATION

General Notes:

* Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier 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 Type D Barrier per linear foot.

Concrete in barrier shall be Class B-1.

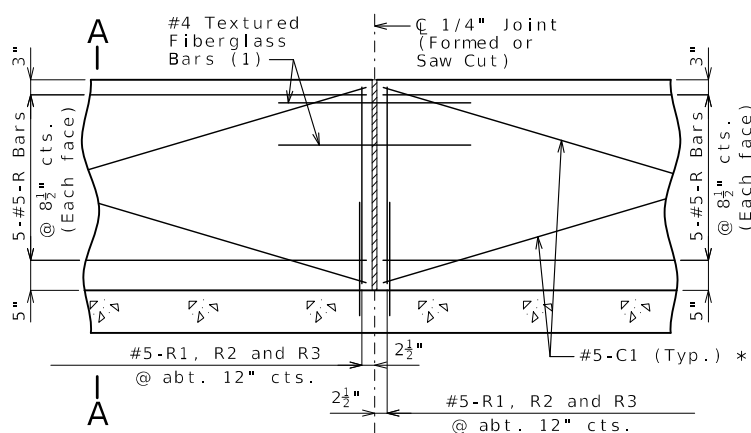
Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

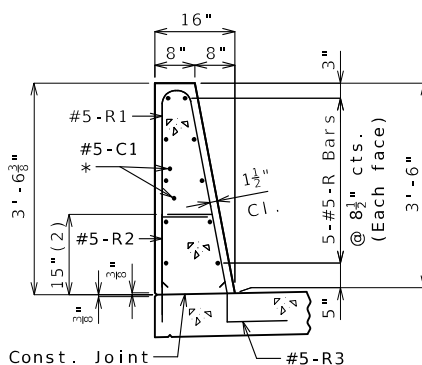
For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.

Plastic waterstop shall not be used with saw cut joints.



PART ELEVATION OF BARRIER

(1) Four feet long, centered on joint, slip-formed option only

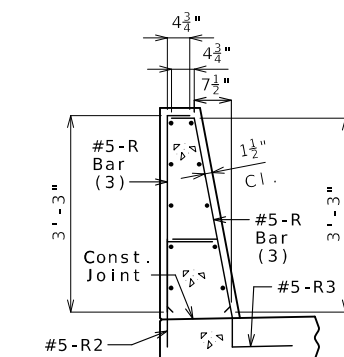


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 3.52 square feet.

(2) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) 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.)

TYPE D BARRIER (LEFT)

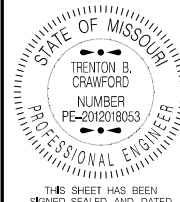
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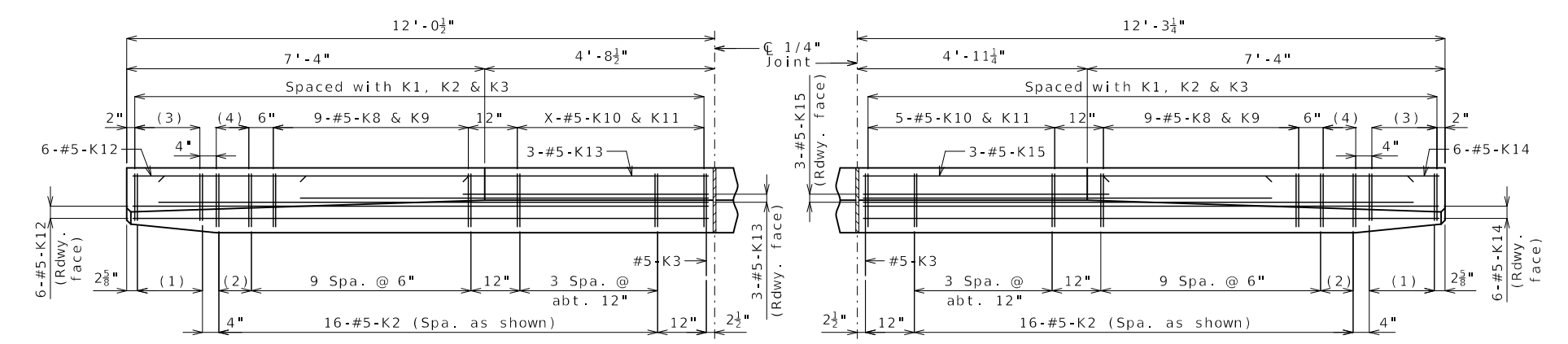
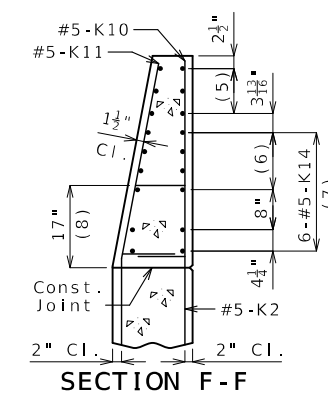
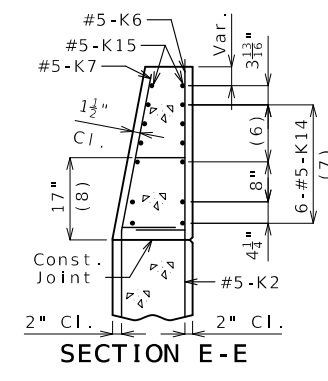
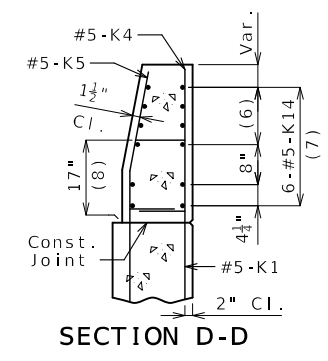
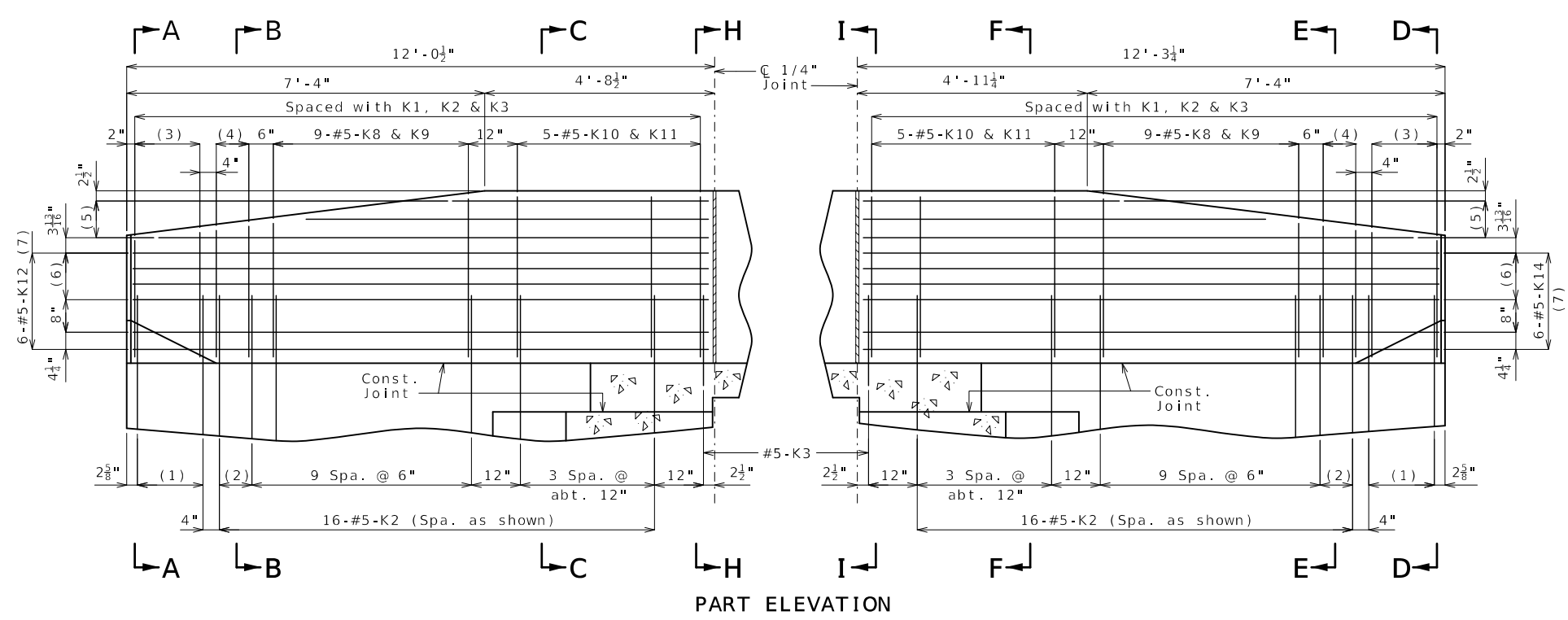
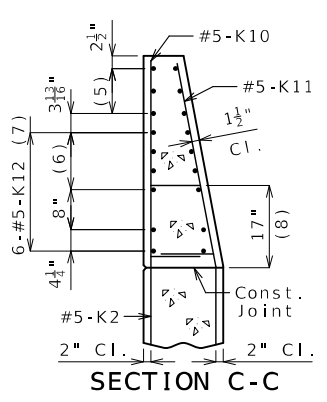
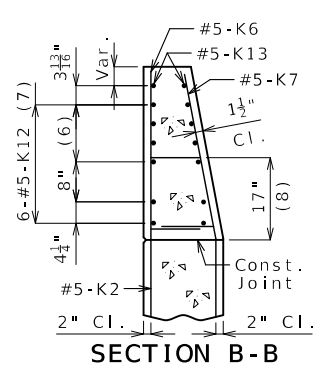
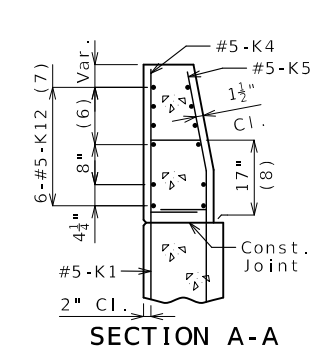
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DESCRIPTION

DATE

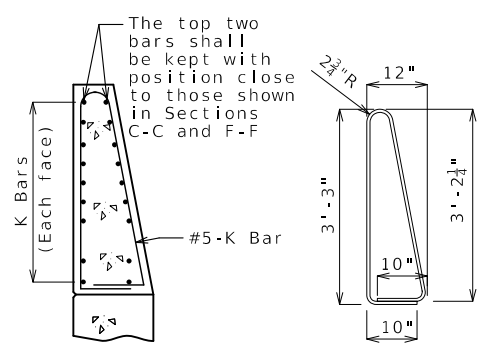
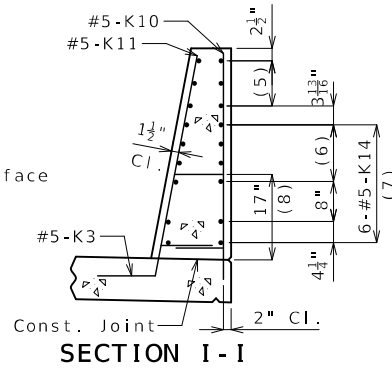
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



PART PLAN

- (1) 5-#5-K1 @ 4" cts.
- (2) 2 spaces @ 4"
- (3) 5-#5-K4 & K5
- (4) 3-#5-K6 & K7
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face
- (6) 3 spaces @ 3 3/8"
- (7) Spaced as shown, each face
- (8) To top of bar

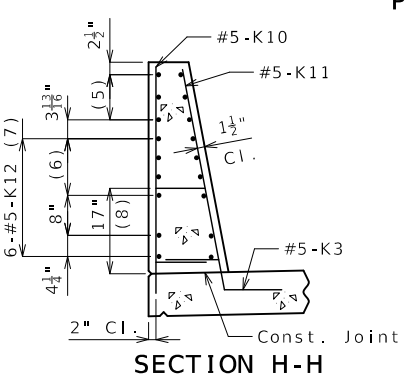
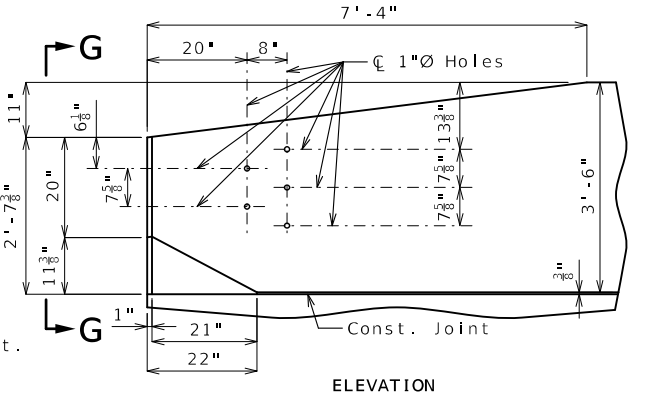
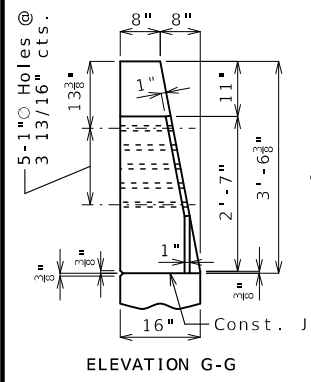


K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

All dimensions are out to out.



General Notes:

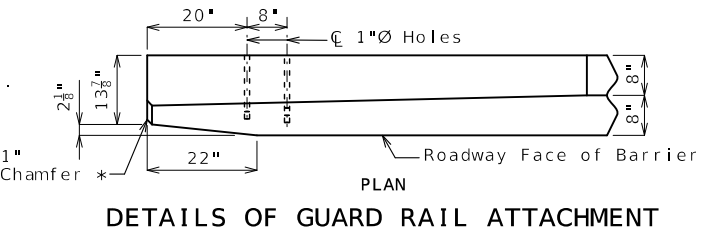
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

TYPE D BARRIER AT END BENTS (LEFT)

(Left barrier shown, right barrier similar)



Detailed Aug. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 25 of 34

Bill of Reinforcing Steel																		
No. Req.	Size/ Mark	Location	Codes			Dimensions							Nom. Length ft in.	Actual Length ft in.	Weight lb			
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.						
Substructure																		
Int Bent 2																		
40	6 D200	BEAM	20			2	6.00						2	6	2	6	150	
6	8 H200	BEAM	20			50	8.00						50	8	50	8	812	
10	6 H201	BEAM	20			50	8.00						50	8	50	8	761	
6	8 H202	BEAM	17			28	1.00						29	29	29	465		
6	8 H203	BEAM	17			31	6.00						32	5	32	5	519	
6	6 H204	BEAM	20			12	2.00						12	2	12	2	110	
15	6 H205	BEAM	10S					12.00	3	9.00			5	9	5	5	122	
3	5 P200	ROCK SOCKET	35			3	0.00	6.00	18	4.50			375	1	368	8	1,154	
3	5 P201	COLUMN	35			3	0.00	3.00	15	6.00			612	10	602	2	1,884	
39	5 P202	BEAM	34S			9	5.00	2.50				3	0.00	10	7	10	5	424
10	5 U200	BEAM	10S					6.00	3	9.00			4	9	4	6	47	
7	5 U201	BEAM	10S					3	9.00	3	9.00			11	3	11	80	
7	5 U202	BEAM	10S					4	1.50	3	9.00			12	11	9	86	
7	5 U203	BEAM	10S					4	6.50	3	9.00			12	10	12	7	92
22	5 U204	BEAM	13S			3	9.00	3	9.00	3	9.00	3	9.00	15	11	15	7	358
23	5 U205	BEAM	13S			3	9.00	4	1.50	3	9.00	4	1.50	16	8	16	4	392
15	5 U206	BEAM	13S			3	9.00	4	6.50	3	9.00	4	6.50	17	6	17	2	269
33	10 V200	COLUMN	17			37	3.00						38	8	38	8	5,491	
Int Bent 3																		
40	6 D300	BEAM	20			2	6.00						2	6	2	6	150	
6	8 H300	BEAM	20			50	8.00						50	8	50	8	812	
10	6 H301	BEAM	20			50	8.00						50	8	50	8	761	
6	8 H302	BEAM	17			28	1.00						29	29	29	465		
6	8 H303	BEAM	17			31	6.00						32	5	32	5	519	
6	6 H304	BEAM	20			12	2.00						12	2	12	2	110	
15	6 H305	BEAM	10S					12.00	3	9.00			5	9	5	5	122	
3	5 P300	ROCK SOCKET	35			3	0.00	6.00	22	10.50			460	1	452	1	1,415	
3	5 P301	COLUMN	35			3	0.00	3.00	15	7.00			616	10	605	3	1,894	
39	5 P302	BEAM	34S			9	5.00	2.50				3	0.00	10	7	10	5	424
10	5 U300	BEAM	10S					6.00	3	9.00			4	9	4	6	47	
7	5 U301	BEAM	10S					3	9.00	3	9.00			11	3	11	80	
7	5 U302	BEAM	10S					4	1.50	3	9.00			12	11	9	86	
7	5 U303	BEAM	10S					4	6.00	3	9.00			12	9	12	6	91
22	5 U304	BEAM	13S			3	9.00	3	9.00	3	9.00	3	9.00	15	11	15	7	358
23	5 U305	BEAM	13S			3	9.00	4	1.50	3	9.00	4	1.50	16	8	16	4	392
15	5 U306	BEAM	13S			3	9.00	4	6.00	3	9.00	4	6.00	17	5	17	1	267
33	10 V300	COLUMN	17			41	10.00						43	3	43	3	6,141	
Int Bent 4																		
40	6 D400	BEAM	20			2	6.00						2	6	2	6	150	
7	8 H400	BEAM	20			50	8.00						50	8	50	8	947	
10	6 H401	BEAM	20			50	8.00						50	8	50	8	761	
7	8 H402	BEAM	17			28	1.00						29	29	29	542		
7	8 H403	BEAM	17			31	6.00						32	5	32	5	606	
6	6 H404	BEAM	20			12	2.00						12	2	12	2	110	
15	6 H405	BEAM	10S					12.00	3	9.00			5	9	5	5	122	
3	5 P400	ROCK SOCKET	35			3	0.00	6.00	28	4.50			563	11	554	1	1,734	
3	5 P401	COLUMN	35			3	0.00	3.00	15	3.25			604	2	593	8	1,858	
39	5 P402	BEAM	34S			9	5.00	2.50				3	0.00	10	7	10	5	424
10	5 U400	BEAM	10S					6.00	3	9.00			4	9	4	6	47	
8	5 U401	BEAM	10S					3	9.00	3	9.00			11	3	11	92	
8	5 U402	BEAM	10S					4	1.25	3	9.00			12	11	9	98	
7	5 U403	BEAM	10S					4	5.25	3	9.00			12	8	12	5	91
23	5 U404	BEAM	13S			3	9.00	3	9.00	3	9.00	3	9.00	15	11	15	7	374
22	5 U405	BEAM	13S			3	9.00	4	1.25	3	9.00	4	1.25	16	8	16	4	375
15	5 U406	BEAM	13S			3	9.00	4	5.25	3	9.00	4	5.25	17	4	17	266	
33	10 V400	COLUMN	17			47	1.00						48	6	48	6	6,887	

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 26.

Detailed Dec. 2024
Checked Dec. 2024

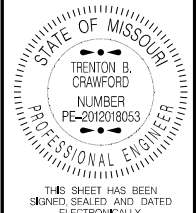
BILL OF REINFORCING STEEL

Note: This drawing is not to scale. Follow dimensions.

All bars shall be Grade 75.

Sheet No. 28 of 34

Bill of Reinforcing Steel																					
No. Req.	Size/ Mark	Location	Codes			Dimensions							Nom. Length ft in.	Actual Length ft in.	Weight lb						
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.									
Superstructure																					
End Bent 1																					
3	6 F100	DIAPHRAGM	23S			2	9.50	4	7.00				2	9.00	5.50	7	5	7	1	32	
3	6 F101	DIAPHRAGM	21S					2	9.50	4	7.00			2	9.00	5.50	7	5	7	3	33
8	6 F103	WING BRACE	23S					16.25	4	1.00	2	5.50	22.50	19.00	12.50	10.50	7	11	7	10	94
4	6 H100	BEAM	20			54	4.00						54	4	54	4	326				
10	6 H101	BEAM	20			54	4.00						54	4	54	4	816				
4	6 H102	BEAM	20			33	3.50						33	4	33	4	200				
4	6 H103	BEAM	20			13	11.50						14	14	14	84					
6	6 H104	DIAPHRAGM	20			54	4.00						54	4	54	4	490				
4	6 H105	SLAB	20			54	4.00						54	4	54	4	326				
18	6 H108	WING	19S			10	10.25	12.00					11	10	11	8	315				
8	8 H109	WING	19			11	6.75	16.00					12	11	12	8	271				
4	6 H110	BEAM	20			25	8.00						25	8	25	8	154				
8	5 U100	BEAM	37S			6	1.50	2	9.25				16	15	10	132					
1	5 U101	BEAM	10S					4	6.00	2	9.25			11	9	11	7	12			
7	5 U102	BEAM	13S			2	9.25	4	6.00	2	9.25	4	6.00	15	6	15	2	111			
13	5 U103	BEAM	37S			5	9.00	2	9.25				15	3	15	1	205				
8	5 U104	BEAM	13S			2	9.25	4	1.00	2	9.25	4	1.00	14	8	14	4	120			
14	5 U105	BEAM	37S			5	3.00	2	9.25				14	3	14	1	206				
1	5 U106	BEAM	10S					3	8.00	2	9.25			10	1	9	11	10			
7	5 U107	BEAM	13S			2	9.25	3	8.00	2	9.25	3	8.00	13	10	13	6	99			
43	5 U108	DIAPHRAGM	37S			2	3.00	2	3.25				7	9	7	7	340				
68	6 U109	DIAPHRAGM	12			2	3.25	4	9.50				7	9	7	7	775				
43	6 U110	DIAPHRAGM	19S			15.75	2	9.25					4	1	3	11	253				
51	5 U111	APPROACH NOTCH	19S			2	0.00	15.00					3	3	3	2	168				
4	5 V100	BEAM	17			6	1.50						6	9	6	9	28				
4	5 V101	BEAM	17			5	9.00														



DATE PREPARED
1/30/2025

ROUTE STATE
D MO

DISTRICT SHEET NO.
BR 30

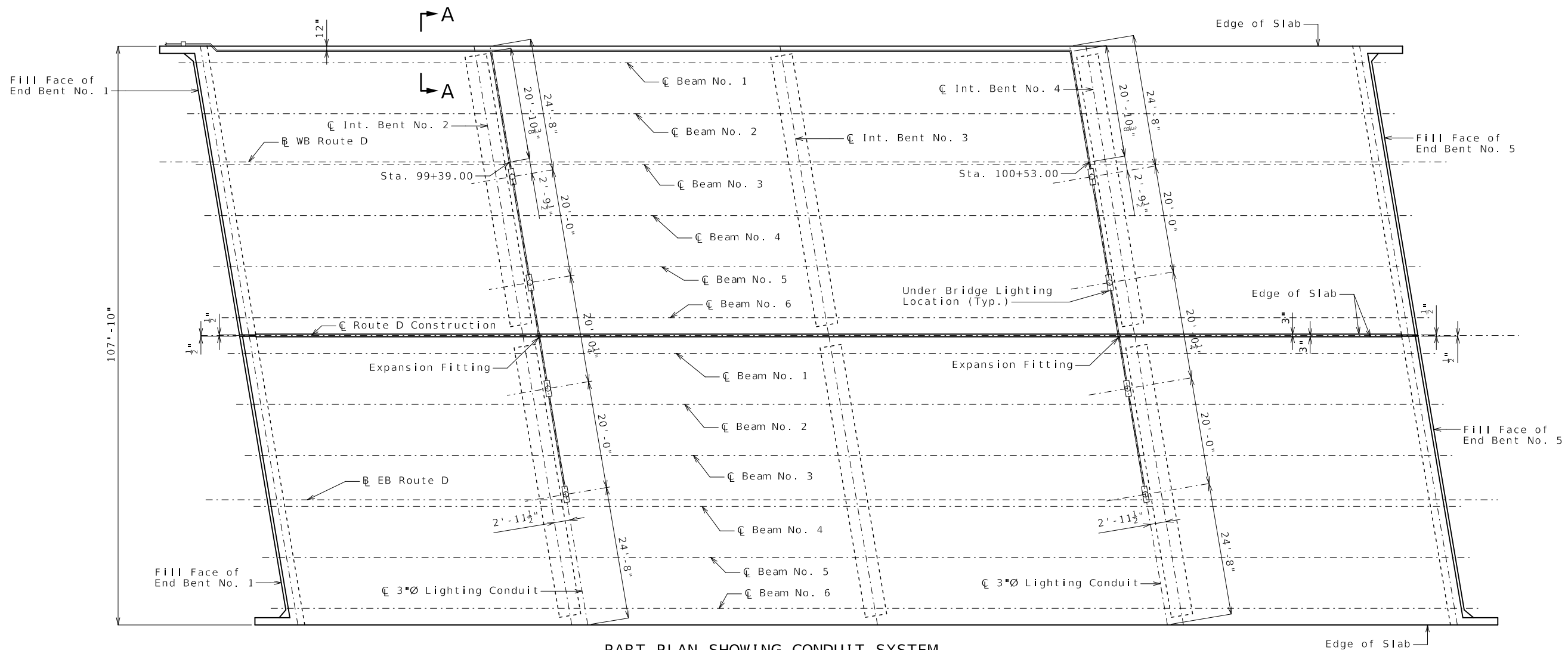
COUNTY
ST LOUIS

JOB NO.
J6S3626

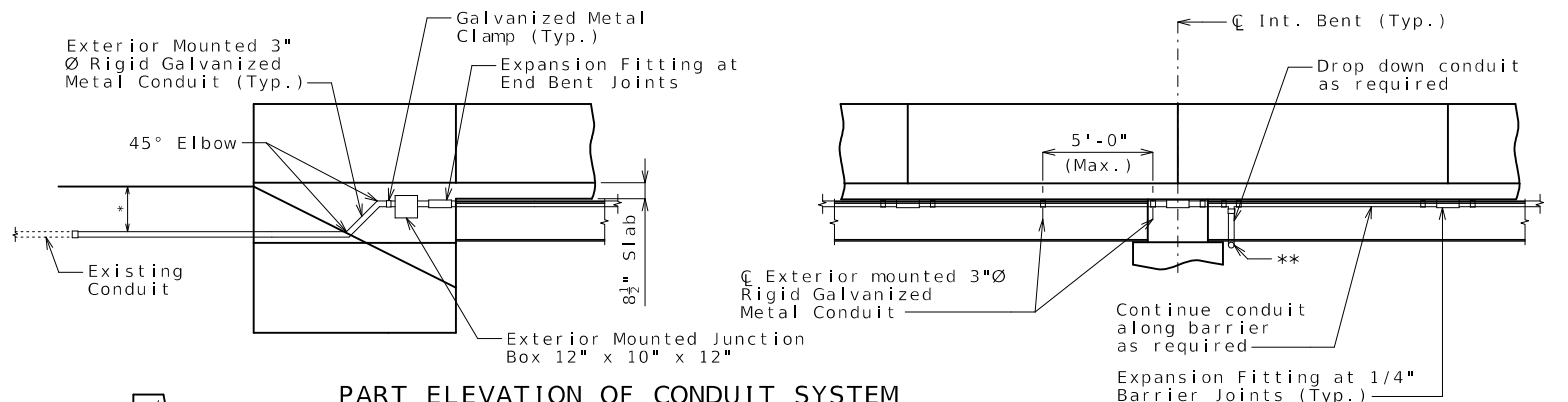
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9478

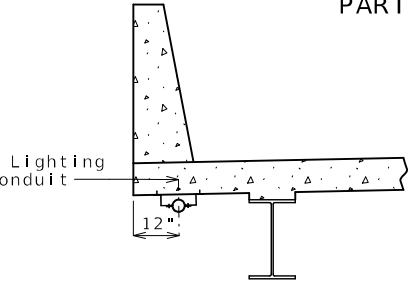


PART PLAN SHOWING CONDUIT SYSTEM

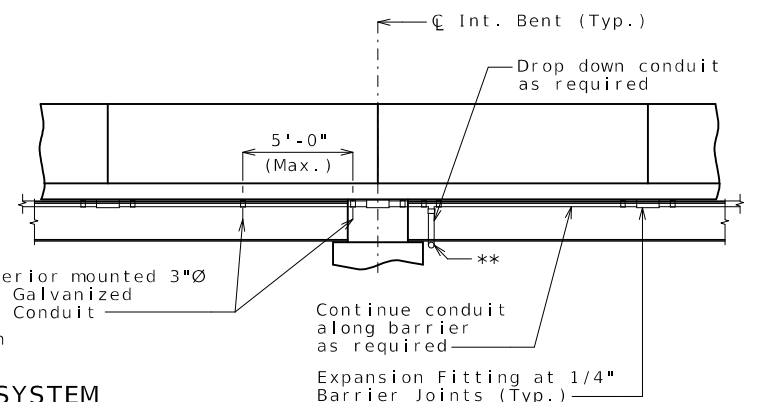


PART ELEVATION OF CONDUIT SYSTEM ON NORTH SAFETY BARRIER

* 2'-0" Min. below ground line
 ** Method of attachment to the beam shall not include drilling or welding to the beam



SECTION A-A



PART PLAN SHOWING CONDUIT ATTACHMENT TO DECK

Notes:

- Cost of furnishing and placing anchor bolts for conduit clamps will be considered completely covered by the contract unit price for Conduit System on Structure.
- All conduit shall be rigid nonmetallic schedule 40 heavy wall polyvinyl chloride (PVC). Each section of conduit shall bear the Underwriters Laboratories (UL) label.
- All conduit clamps shall be commercially-available and approved by the engineer.
- Anchor bolts and nuts shall be ASTM F1554 Grade 55. Anchor bolts, nuts and washers shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C, or ASTM B695, Class 55.
- Light standards, wiring and fixtures shall be furnished and installed by others.
- Top of light standard supports shall be made horizontal.
- For details of light standards, underdeck lighting, and wiring, see electrical plans.
- Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements. Additional expansion fittings beyond what is specified on the bridge plans shall be provided and placed in accordance with the conduit manufacturer's recommendations.
- Weep holes for all conduit shall be provided at low points or other critical locations to drain any moisture in the conduit system. Conduit shall be sloped to drain.
- Exterior mounted junction boxes shall be stainless steel water tight NEMA 4 Enclosures. 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.
- Conduits placed along beam cap and under bridge deck shall be secured to concrete with conduit clamps at about 5'-0" cts. Concrete anchors for clamps shall be nondrilling expansion type for 3/8" bolts and shall be in accordance with Federal Specification FF-5-325, Group II, Type 4, Class 1 and shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C ASTM B695, Class 55 or Stainless Steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.
- Final location of junction boxes shall be determined by the Engineer.
- Payment for furnishing and installing Conduit System, complete in place, will be considered completely covered by the contract lump sum price for Conduit System on Structure.

Detailed Nov. 2024
 Checked Nov. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 30 of 34

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

DATE DESCRIPTION

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



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2025

ROUTE STATE
D MO

DISTRICT SHEET NO.
BR 32

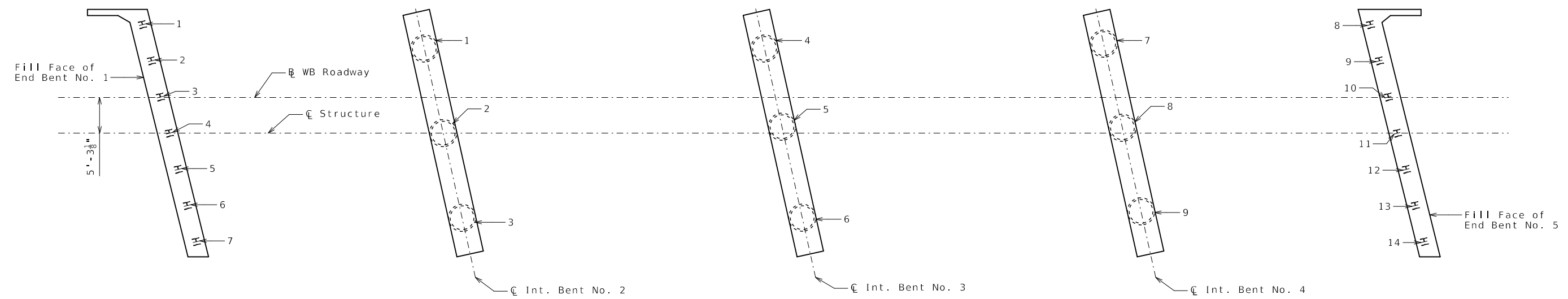
COUNTY
ST LOUIS

JOB NO.
J6S3626

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9478



PART PLAN SHOWING PILE & DRILLED SHAFT NUMBERING FOR RECORDING AS-BUILT PILE DATA & AS-BUILT DRILLED SHAFT DATA

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
End Bent No. 1			
1			
2			
3			
4			
5			
6			
7			
End Bent No. 5			
8			
9			
10			
11			
12			
13			
14			

As-Built Drilled Shaft Data				
Shaft No.	Top of Sound Rock (Elev.)	Tip of Casing (Elev.)	Bottom of Rock Socket (Elev.)	Remarks
Int. Bent No. 2				
1				
2				
3				
Int. Bent No. 3				
4				
5				
6				
Int. Bent No. 4				
7				
8				
9				

Note:
Indicate in remarks column:
A. Pile type and grade
B. Batter
C. Driven to practical refusal
This sheet to be completed by MoDOT construction personnel.

AS-BUILT PILE & DRILLED SHAFT DATA

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

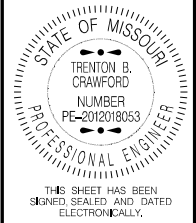
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



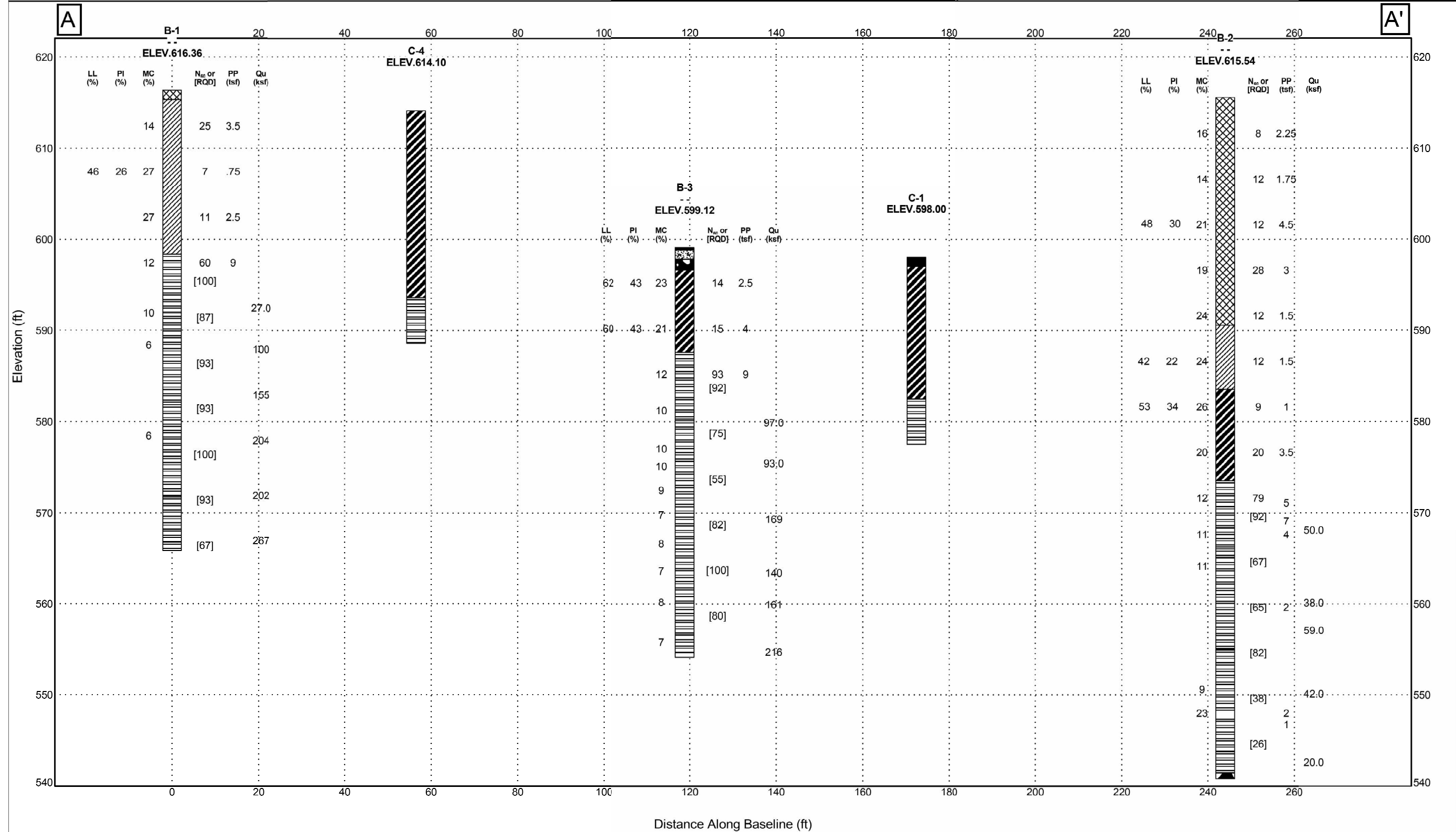
SUBSURFACE DIAGRAM

PROJECT NAME Page Ave. and Lindbergh Blvd. Interchange
 PROJECT LOCATION St. Louis County, Missouri
 CLIENT MoDOT
 PROJECT NUMBER J6S3626

	Fill (made ground)		USCS Low Plasticity Clay		Shale
	No Core		USCS High Plasticity Clay		Coal
	Asphalt		Concrete		Boulders and cobbles



DATE PREPARED
1/30/2025
 ROUTE D STATE MO
 DISTRICT BR SHEET NO. 33
 COUNTY ST LOUIS
 JOB NO. J6S3626
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A9478



BORING DATA

Note: For locations of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 33 of 34

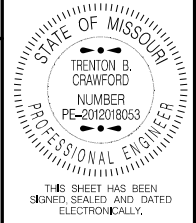
Detailed Nov. 2024
 Checked Nov. 2024

DATE	DESCRIPTION

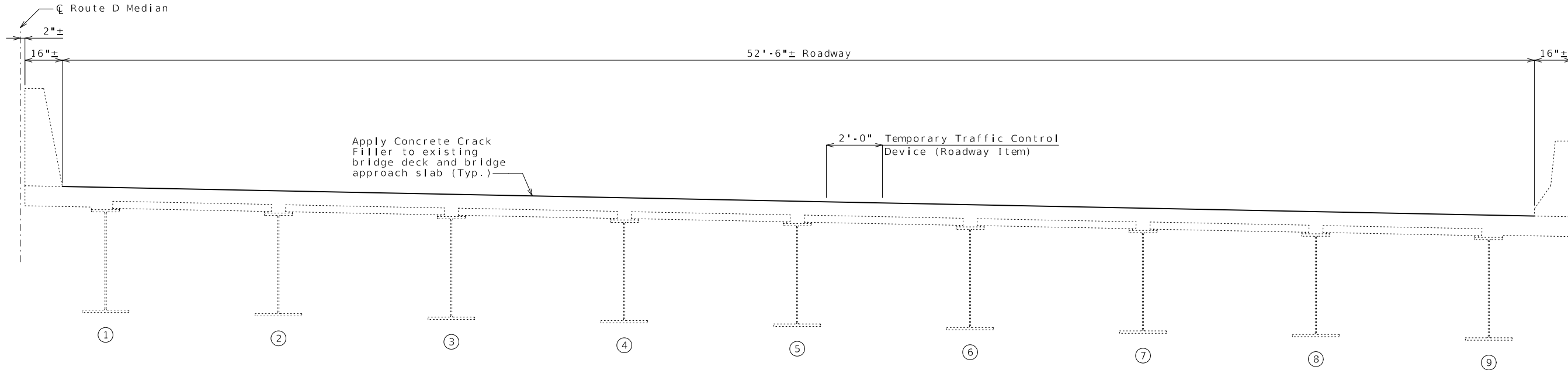
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

U.I.P. AND REHABILITATE EXISTING (80'-124'-80') CONTINUOUS COMPOSITE PLATE GIRDER SPANS (SKEW: 55°00'00" R.A.)



DATE PREPARED 1/29/2025	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 1
COUNTY ST. LOUIS	
JOB NO. J6S3626	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A66041	



TYPICAL SECTION THRU EXISTING SLAB

General Notes:

Design Specifications:
2002 AASHTO LFD (17th ed.) Standard Specifications
Bridge Deck Rating = 6

Design Loading:
HS20 Modified & Military 24,000lb Tandem Axle (2002)

Miscellaneous:
Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (Roadway Item).

Outline of existing work is indicated by light dashed lines, Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

Traffic Handling:
Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Estimated Quantities		
Item		Total
* Concrete Crack Filler	sq. yard	1978

* Estimated quantity of Concrete Crack Filler includes Bridge Approach Slabs at each end of the bridge. See Special Provisions.

The estimated area of Bridge Approach Slab is 297 sq. yards.

REPAIRS TO BRIDGE: ROUTE D OVER CENTRAL MIDLAND RAILROAD

ROUTE D FROM I-270 TO ROUTE 67
ABOUT 2.0 MILES EAST OF I-270
BEGINNING STATION 82+74.64 (MATCH EXISTING)

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

