

DESIGN DESIGNATION

A.A.D.T. - 2023 4465
 A.A.D.T. - 2043 = 5558
 D.H.V. = 7%
 T = 34%
 V = 45 M.P.H.
 D = 50%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

CONTROLLED ACCESS HIGHWAY

THIS SHALL BE A CONTROLLED ACCESS HIGHWAY, BETWEEN STA. 12+89.02 AND STA. 39+33.13 EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY. THERE SHALL BE THE USUAL RIGHT OF ACCESS OVER ANY LOCATION SHOWN ON THESE PLANS EITHER AS (1) AN ENTRANCE OR (2) A PRIVATE UNDERPASS. WHEREVER AN ADJACENT OUTER ROADWAY OR SERVICE ROAD IS SHOWN, THERE SHALL BE THE USUAL RIGHT OF DIRECT ACCESS BETWEEN THE ABUTTING PROPERTY AND SUCH OUTER ROADWAY OR SERVICE ROAD (EXCEPT WHERE ACCESS IS SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING NO RIGHT OF ACCESS) AND ALONG IT TO AND FROM THE NEAREST LANE OF THE THROUGHWAY OF A PUBLIC HIGHWAY. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.

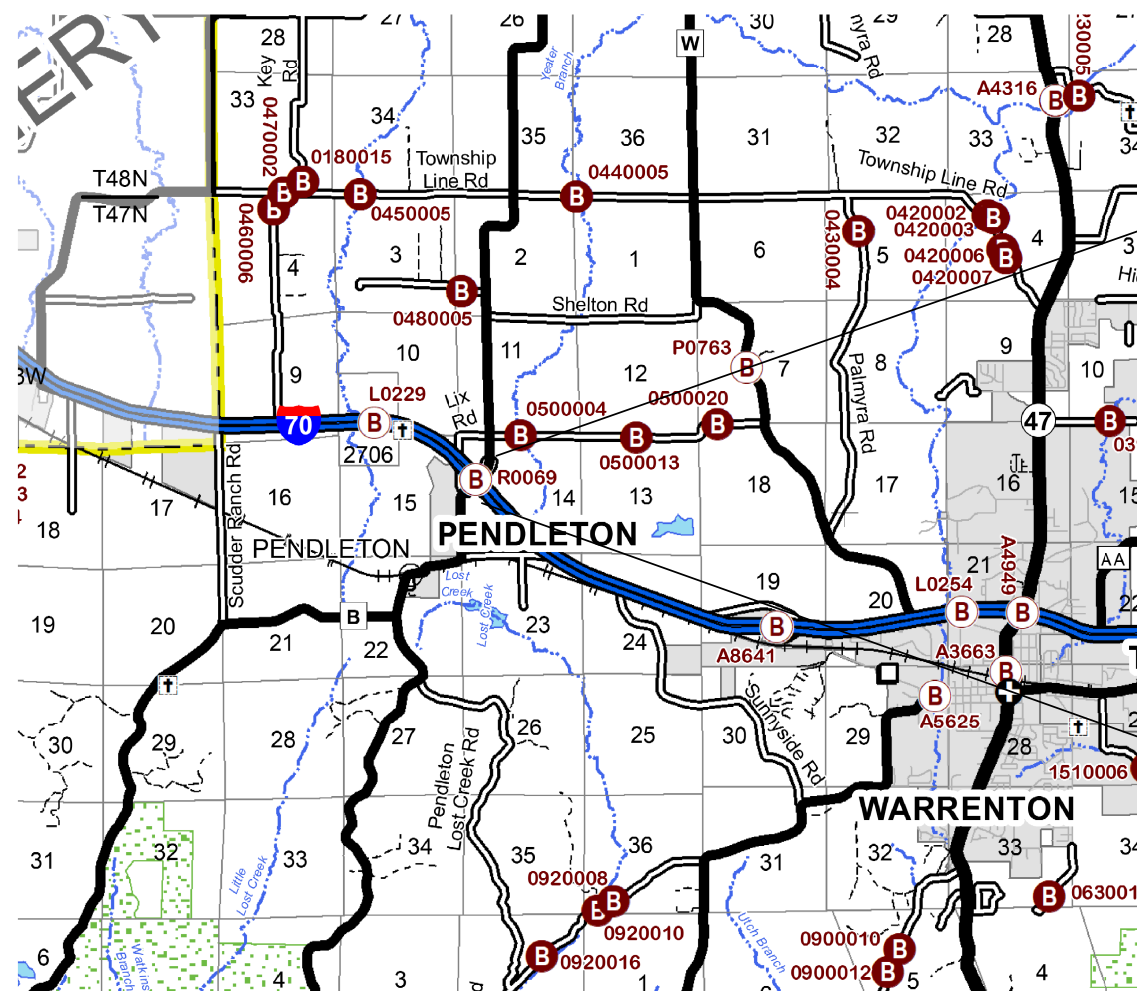
- BEGINNING AND ENDING OF CONTROLLED ACCESS
- CONTROLLED ACCESS
- NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

CONVENTIONAL SYMBOLS
(USED IN PLANS)

- | | EXISTING | NEW |
|------------------------------|----------|-------|
| BUILDINGS AND STRUCTURES | | |
| GUARD RAIL | | |
| GUARD CABLE | | |
| CONCRETE RIGHT-OF-WAY MARKER | | |
| STEEL RIGHT-OF-WAY MARKER | | |
| LOCATION SURVEY MARKER | | |
| UTILITIES | | |
| FIBER OPTICS | -FO- | -FO- |
| OVERHEAD CABLE TV | -OTV- | -OTV- |
| UNDERGROUND CABLE TV | -UTV- | -UTV- |
| OVERHEAD TELEPHONE | -OT- | -OT- |
| UNDERGROUND TELEPHONE | -UT- | -UT- |
| OVERHEAD POWER | -OE- | -OE- |
| UNDERGROUND POWER | -UE- | -UE- |
| SANITARY SEWER | -S- | -S- |
| STORM SEWER | -SS- | -SS- |
| GAS | -G- | -G- |
| WATER | -W- | -W- |
| MANHOLE | | |
| FIRE HYDRANT | | |
| WATER VALVE | | |
| WATER METER | | |
| DROP INLET | | |
| DITCH BLOCK | | |
| GROUND MOUNTED SIGN | | |
| LIGHT POLE | | |
| H-FRAME POWER POLE | | |
| TELEPHONE PEDESTAL | | |
| FENCE | | |
| CHAIN LINK | | |
| WOVEN WIRE | | |
| GATE POST | | |
| BENCHMARK | | |

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
ROUTE A
WARREN COUNTY
 SECTIONS 14 & 15 T47N R3W



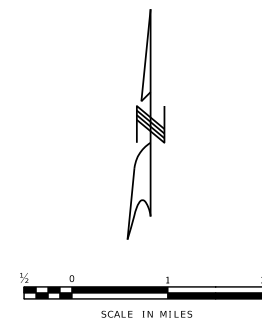
BEGIN PROJECT
STA. 8+30.00

END PROJECT
STA. 38+70.00

PROJECT LIMITS - 0.576 MILES
GRADING, DRAINAGE, BRIDGE & PAVING

DISCLAIMER

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

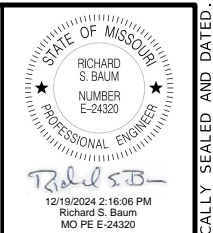
INDEX OF SHEETS

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QUANTITIES (QU) (11 SHEETS)-----	3
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LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 8 + 30.00
END OF PROJECT	STA. 38 + 70.00
APPARENT LENGTH	3040.00 FEET
EQUATIONS AND EXCEPTIONS:	

TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	3040.00 FEET
STATE LENGTH	0.576 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	15.8 ACRES



DATE PREPARED	19-DEC-2024
ROUTE	A
STATE	MO
DISTRICT	NE
SHEET NO.	1
COUNTY	WARREN
JOB NO.	J2S3438
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

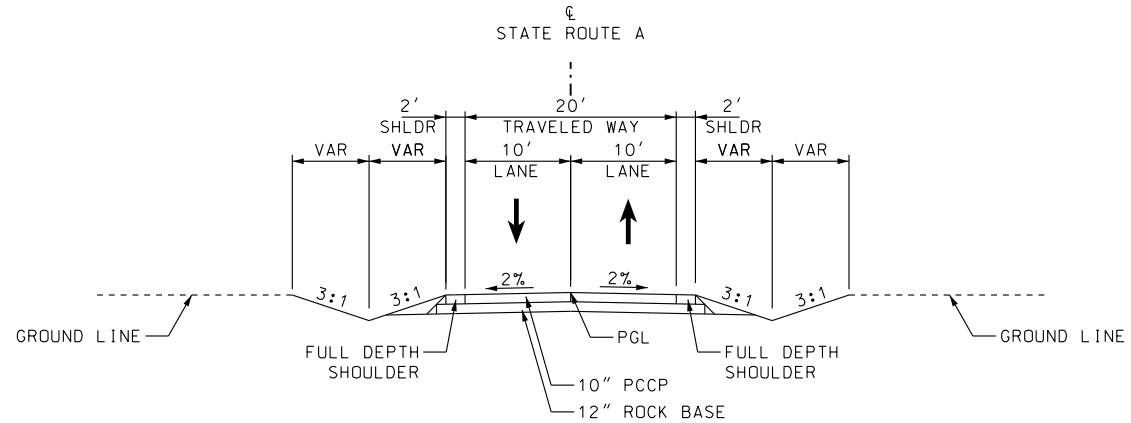
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

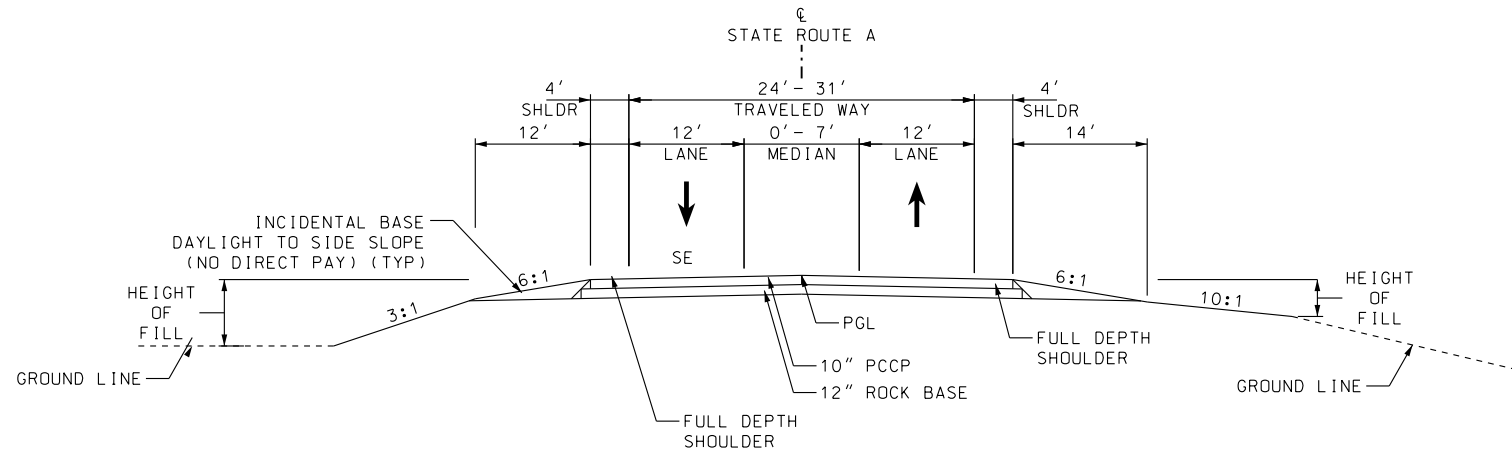
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

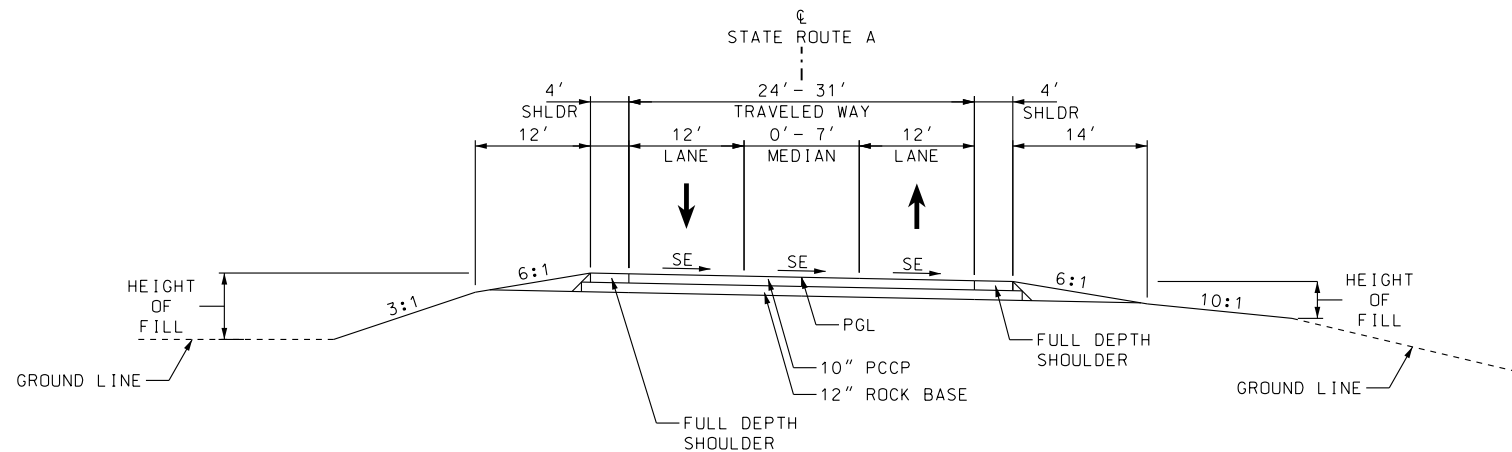
JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



SECTION ON TANGENT
TYPICAL SECTION STATE ROUTE A
STA. 8+30.00 TO STA. 11+94.50



SECTION ON TANGENT
TYPICAL SECTION STATE ROUTE A
STA. 11+94.50 TO STA. 11+99.75



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION STATE ROUTE A
STA. 11+99.75 TO STA. 16+00.00

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TYPICAL SECTIONS
SHEET 1 OF 12

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
12/06/2024 5:44:28 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
6-DEC-2024

ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 2

COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

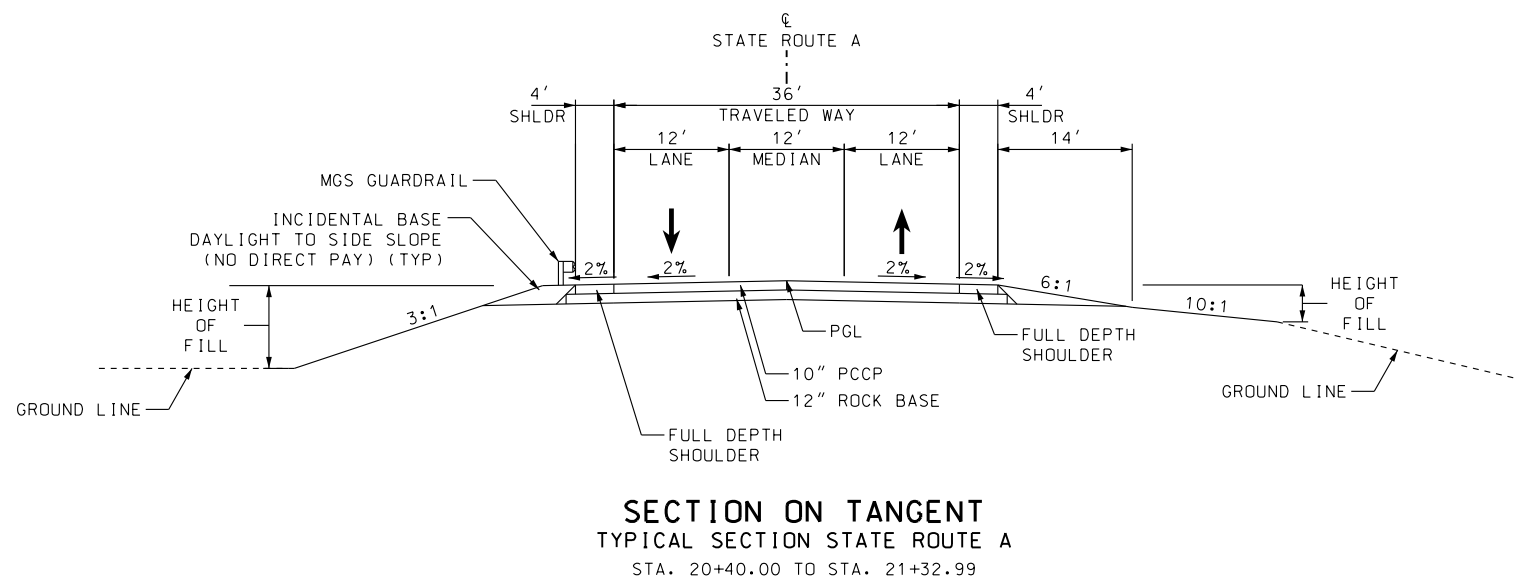
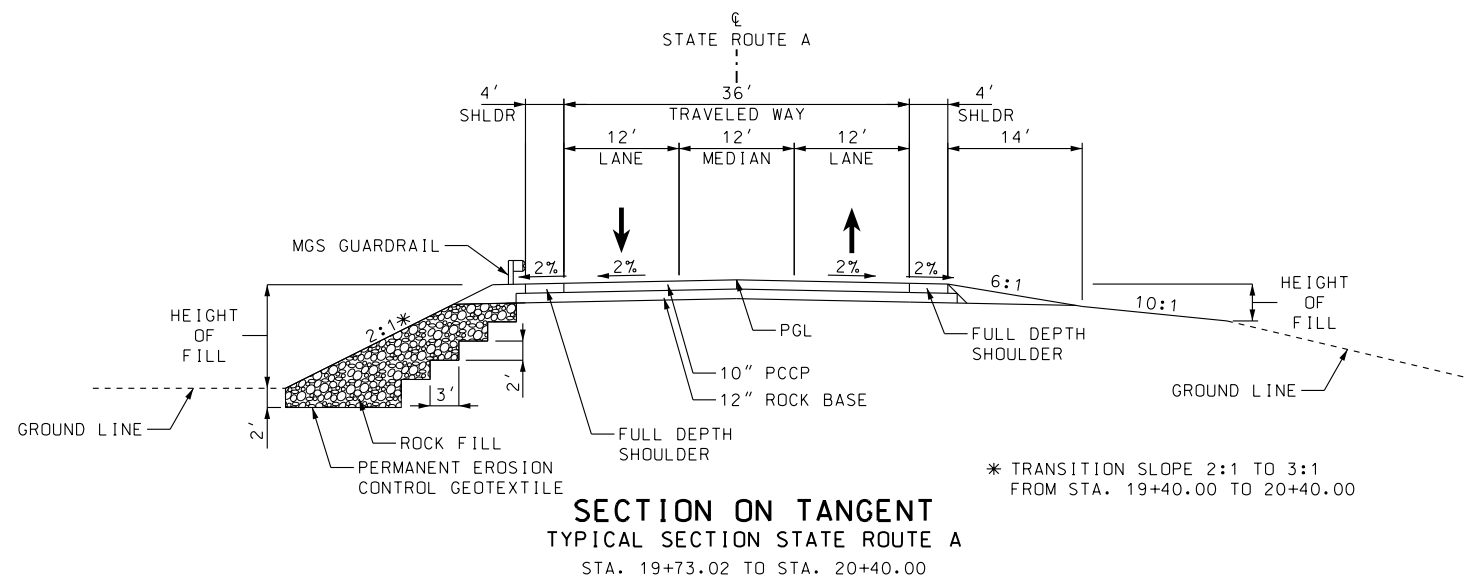
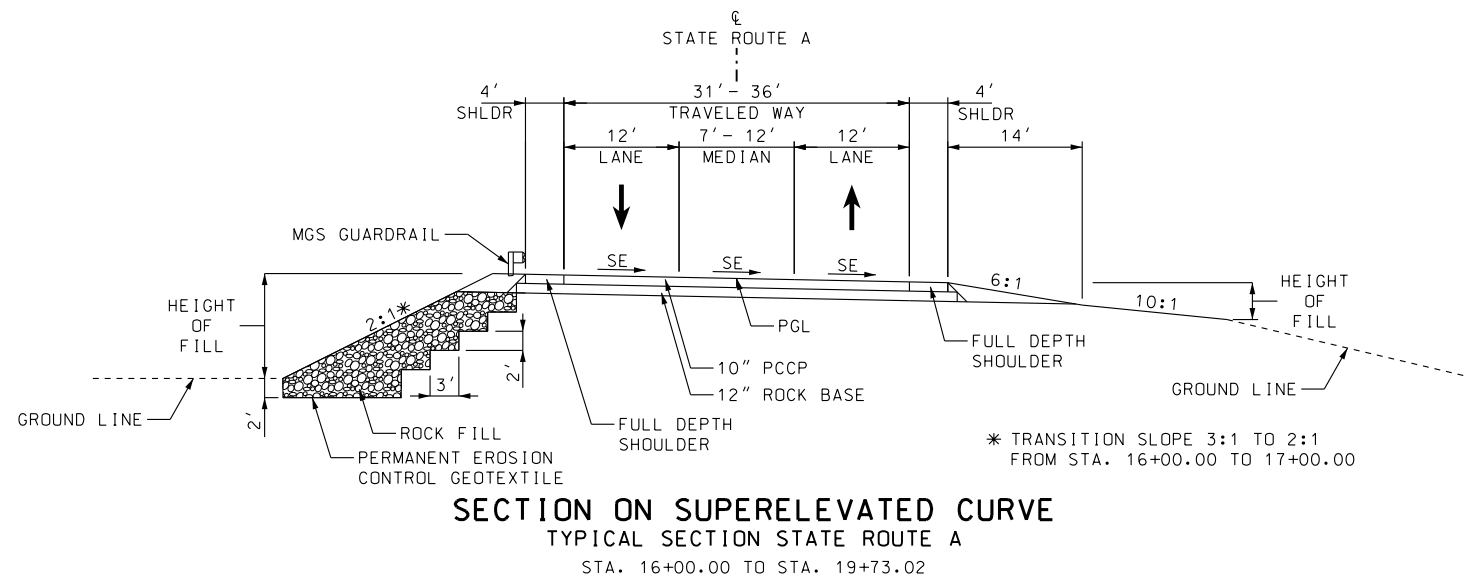
DESCRIPTION	DATE
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DESCRIPTION	DATE

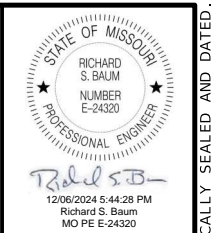
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
 105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
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CERTIFICATE OF AUTHORITY #00704

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



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DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 2
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

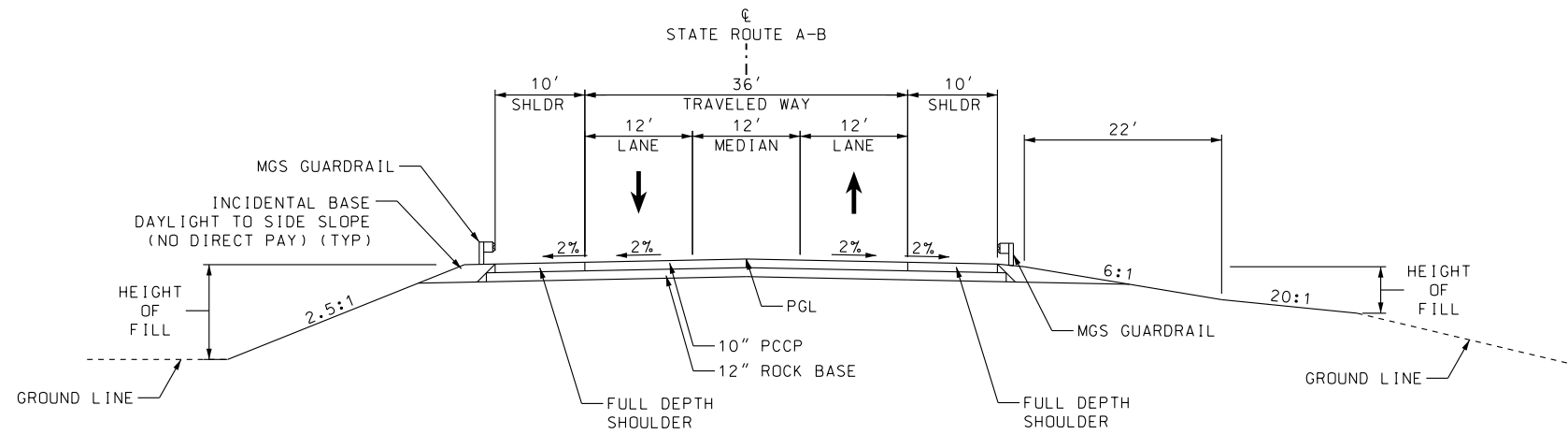
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

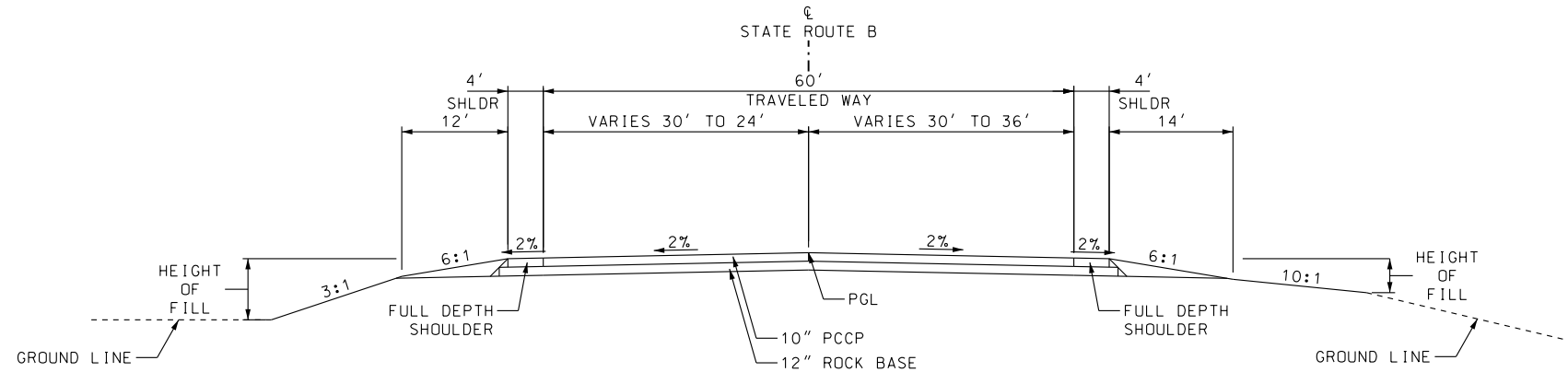
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 JEFFERSON CITY, MO 65102
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Jacobs
 JACOBS ENGINEERING GROUP
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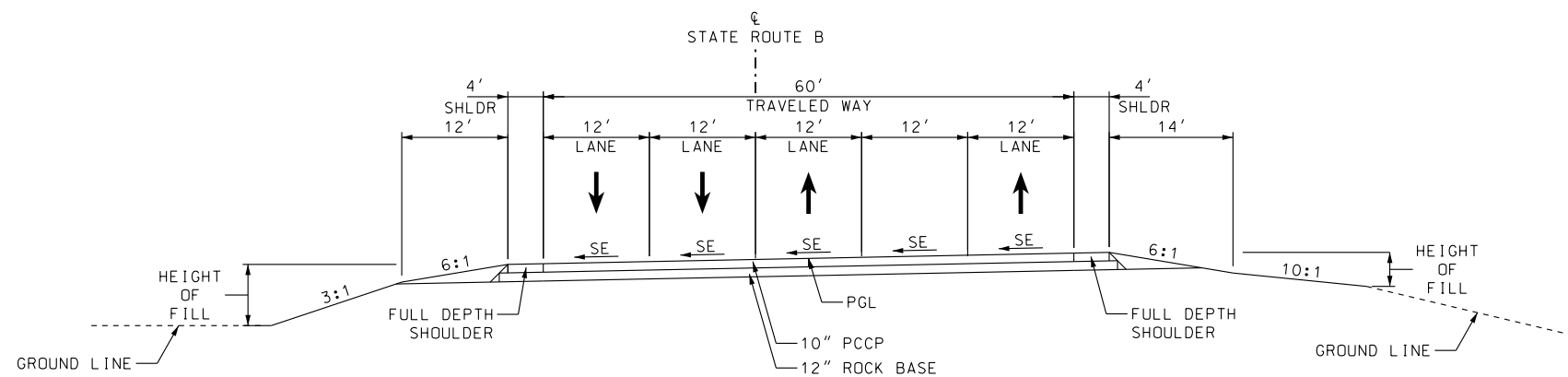
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SECTION ON TANGENT
TYPICAL SECTION STATE ROUTE A/B
 STA. 21+32.99 TO STA. 22+08.77
 STA. 25+10.77 TO STA. 26+11.92

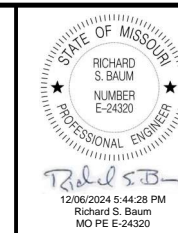


SECTION ON TANGENT
TYPICAL SECTION STATE ROUTE B
 STA. 26+11.92 TO STA. 29+51.23



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION ROUTE B
 STA. 29+51.23 TO STA. 31+17.88

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DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 2

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

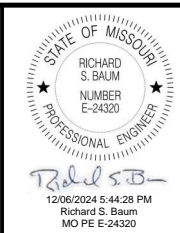
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

JACOBS ENGINEERING GROUP
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 ST. LOUIS, MISSOURI 63110
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DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 2

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DRIVE

ST. LOUIS, MISSOURI 63110

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

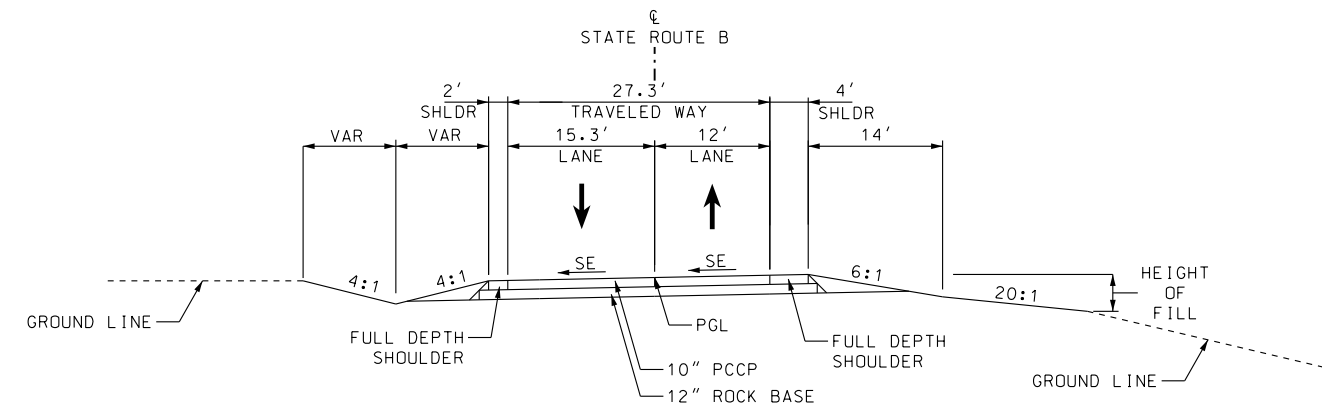
JACOBS

1001 HIGHLANDS PLAZA DRIVE

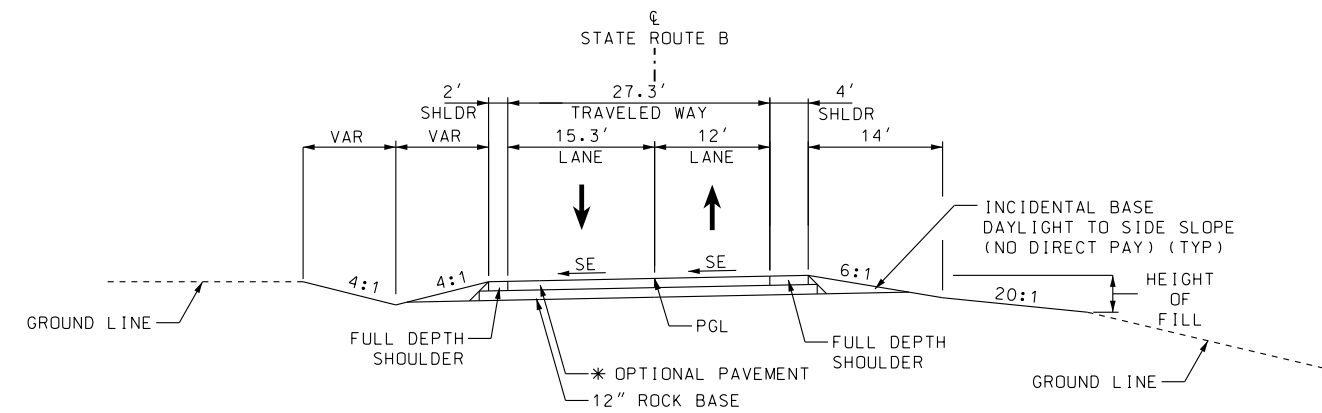
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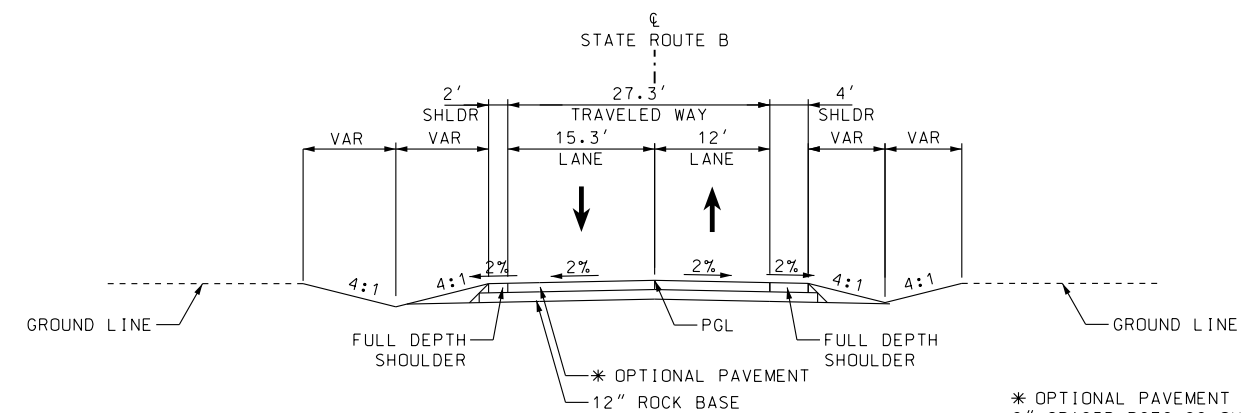


SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION STATE ROUTE B
STA. 31+17.88 TO STA. 32+09.99



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION STATE ROUTE B
STA. 32+09.99 TO STA. 37+54.17

* OPTIONAL PAVEMENT
2" SP125B PG76-22 OVER
2" SP125B PG76-22 OVER
8" SP190 PG64-22
OR
10" PCCP

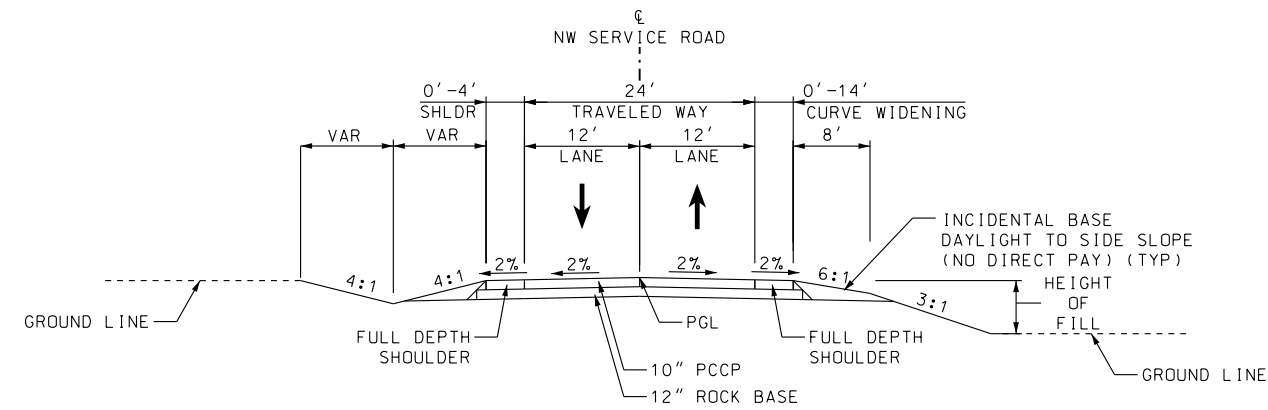


SECTION ON TANGENT
TYPICAL SECTION STATE ROUTE B
STA. 37+54.17 TO STA. 38+70.00

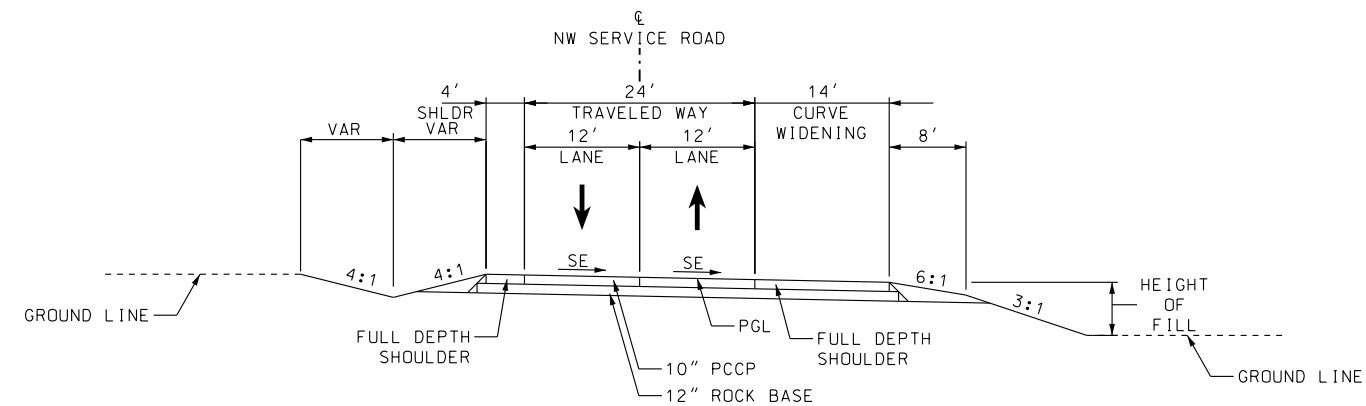
* OPTIONAL PAVEMENT
2" SP125B PG76-22 OVER
2" SP125B PG76-22 OVER
8" SP190 PG64-22
OR
10" PCCP

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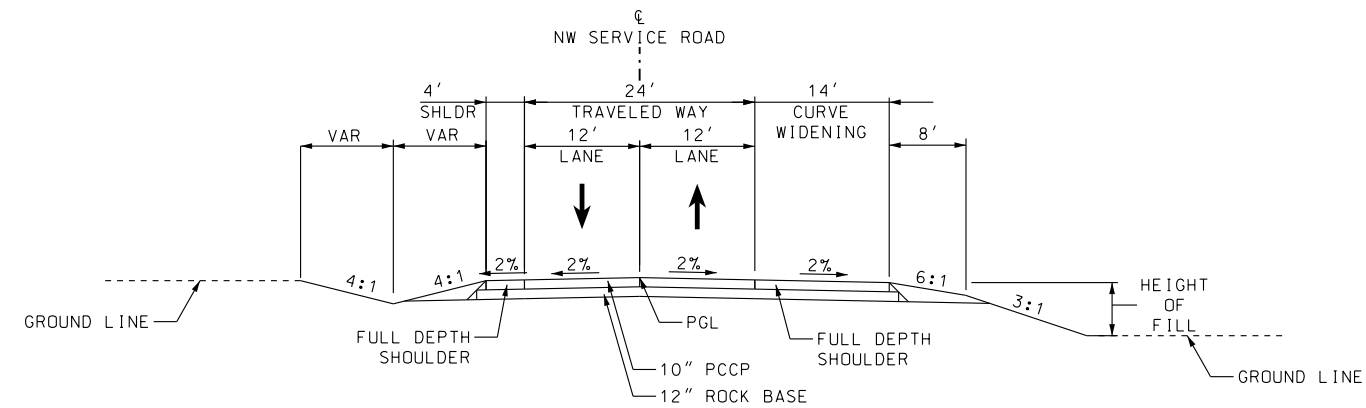
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SECTION ON TANGENT
TYPICAL SECTION NW SERVICE ROAD
STA. 10+60.00 TO STA. 11+31.93

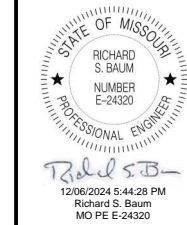


SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION NW SERVICE ROAD
STA. 11+31.93 TO STA. 12+73.09



SECTION ON TANGENT
TYPICAL SECTION NW SERVICE ROAD
STA. 12+73.09 TO STA. 13+86.63

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DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 2

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

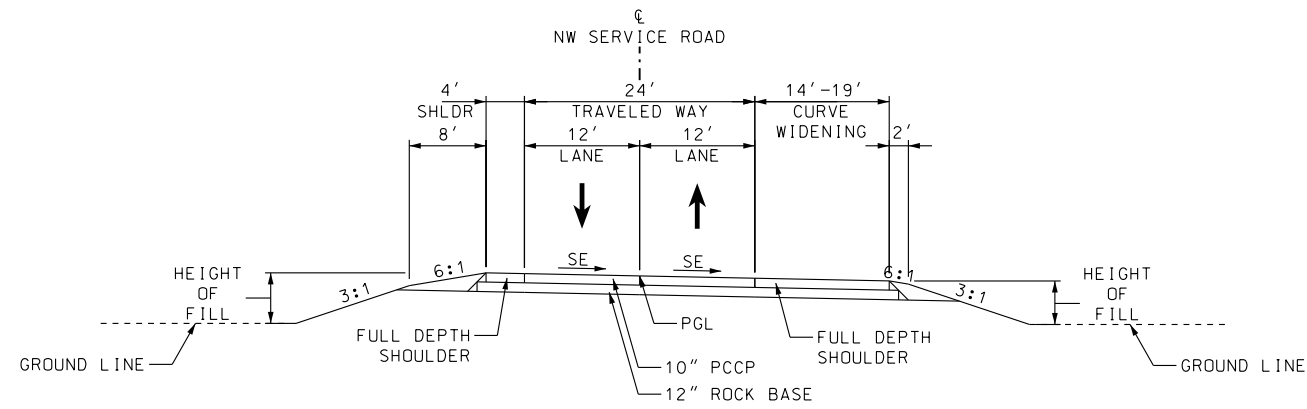
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

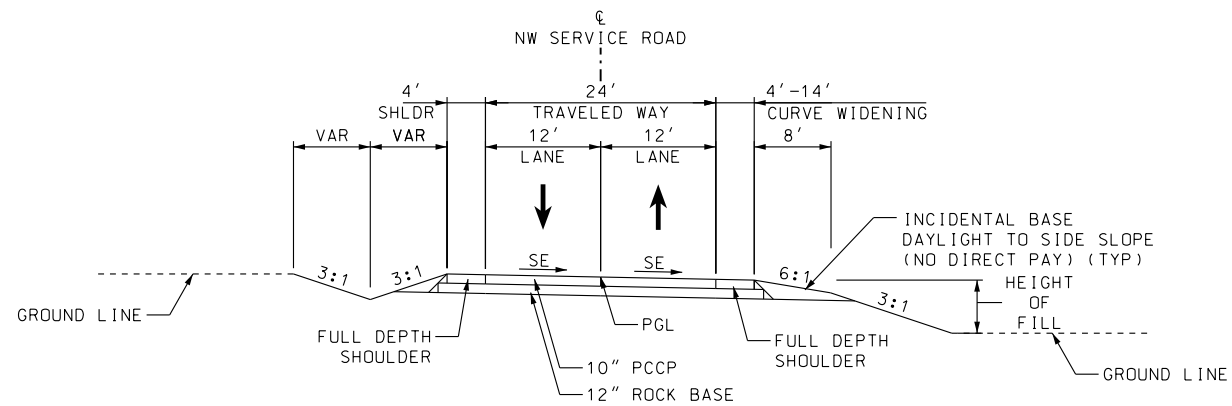
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 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TYPICAL SECTIONS
SHEET 5 OF 12

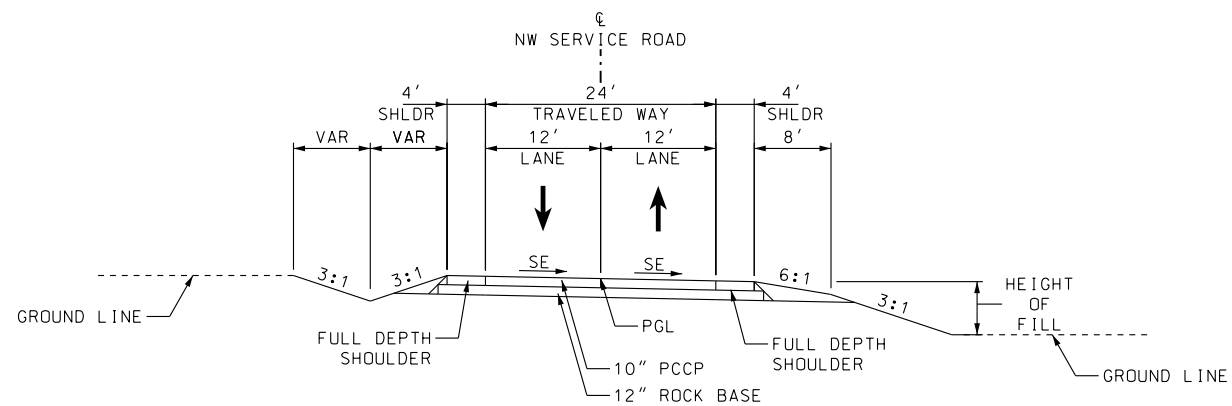
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SECTION ON SUPERELEVATED CURVE
 TYPICAL SECTION NW SERVICE ROAD
 STA. 13+86.63 TO STA. 15+21.35



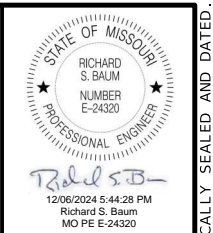
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 TYPICAL SECTION NW SERVICE ROAD
 STA. 15+21.35 TO STA. 15+95.69



SECTION ON SUPERELEVATED CURVE
 TYPICAL SECTION NW SERVICE ROAD
 STA. 15+95.69 TO STA. 19+30.00

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TYPICAL SECTIONS
 SHEET 6 OF 12



DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 2
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

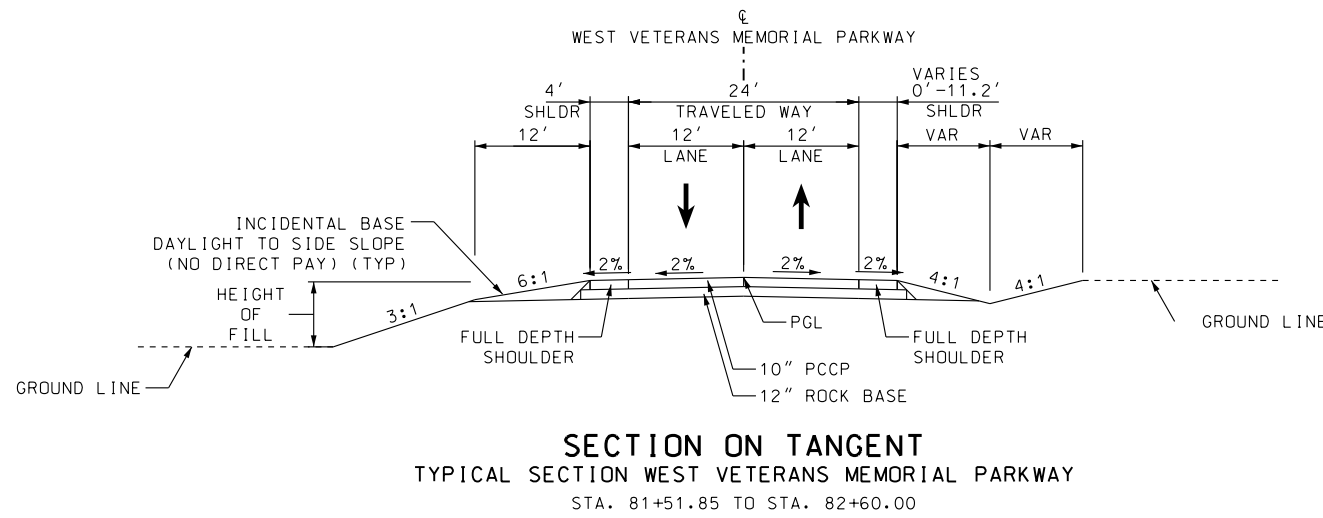
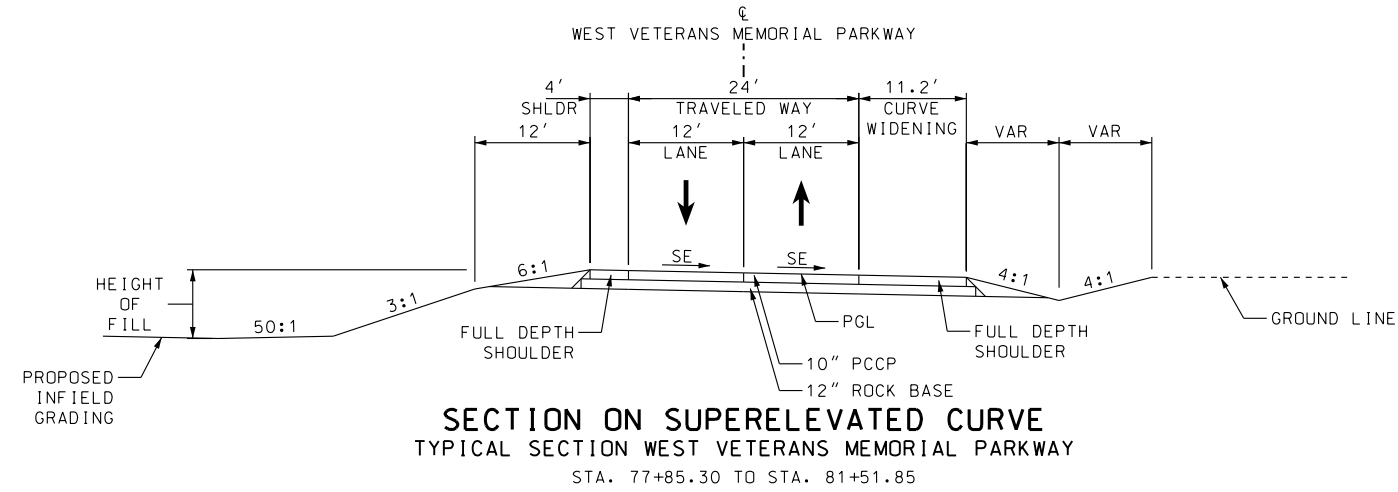
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

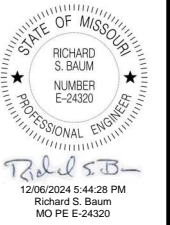
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
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TYPICAL SECTIONS
SHEET 8 OF 12



DATE PREPARED	
6-DEC-2024	
ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	2
COUNTY	
WARREN	
JOB NO.	
J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

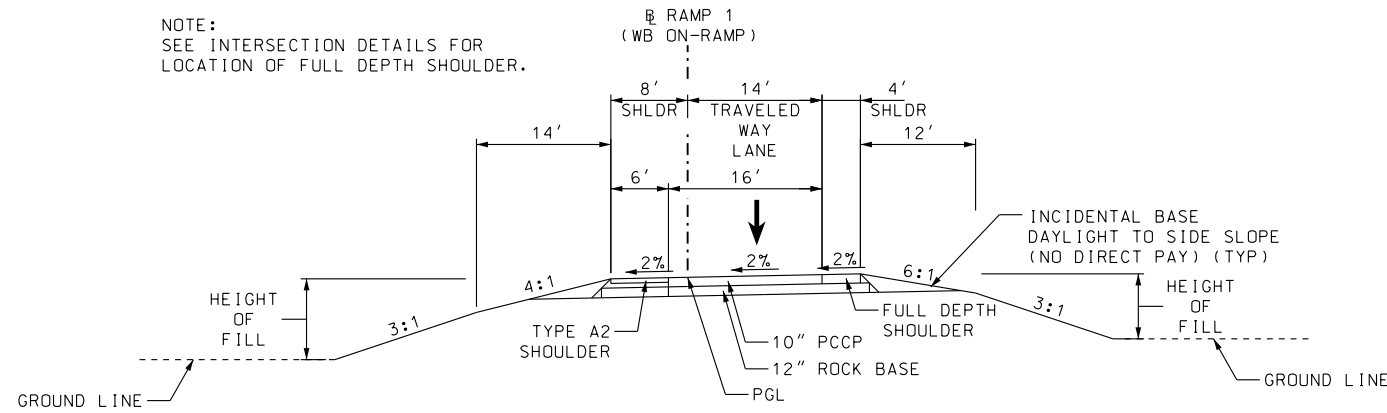
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

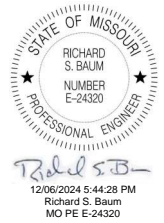
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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SECTION ON TANGENT
 TYPICAL SECTION RAMP 1
 STA. 9+70.00 TO STA. 13+04.53

NOTE:
 SEE INTERSECTION DETAILS FOR
 LOCATION OF FULL DEPTH SHOULDER.



DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 2

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

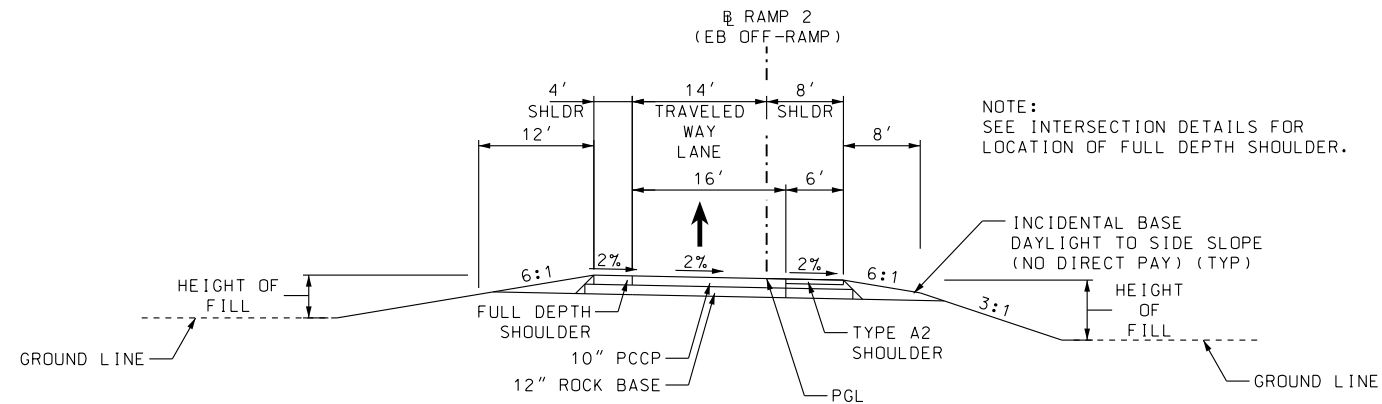
MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

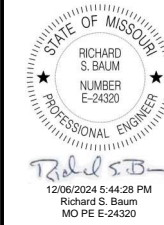
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NOTE:
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SECTION ON TANGENT
TYPICAL SECTION RAMP 2
STA. 10+65.00 TO STA. 14+04.72



DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 2

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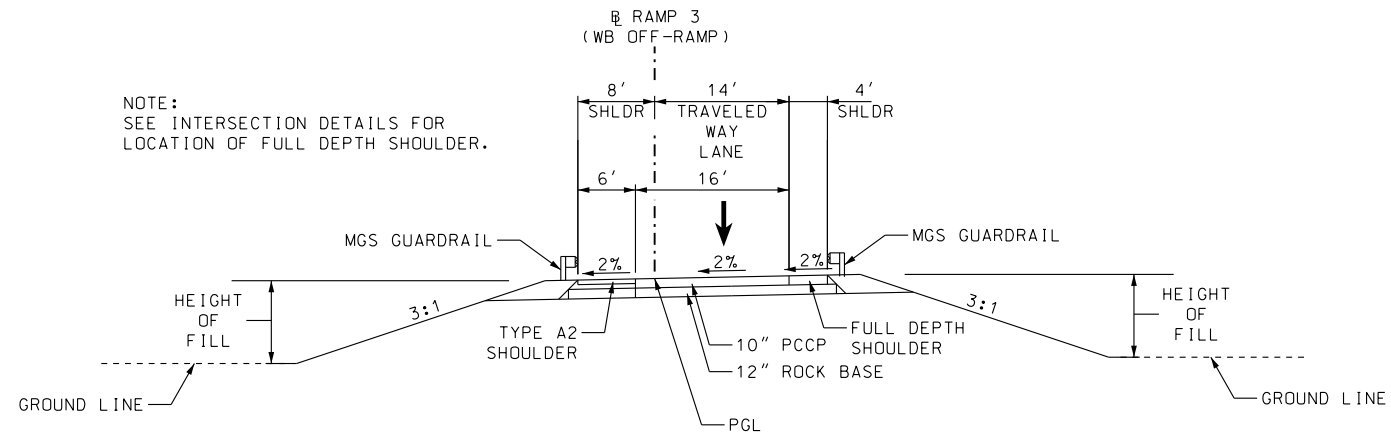
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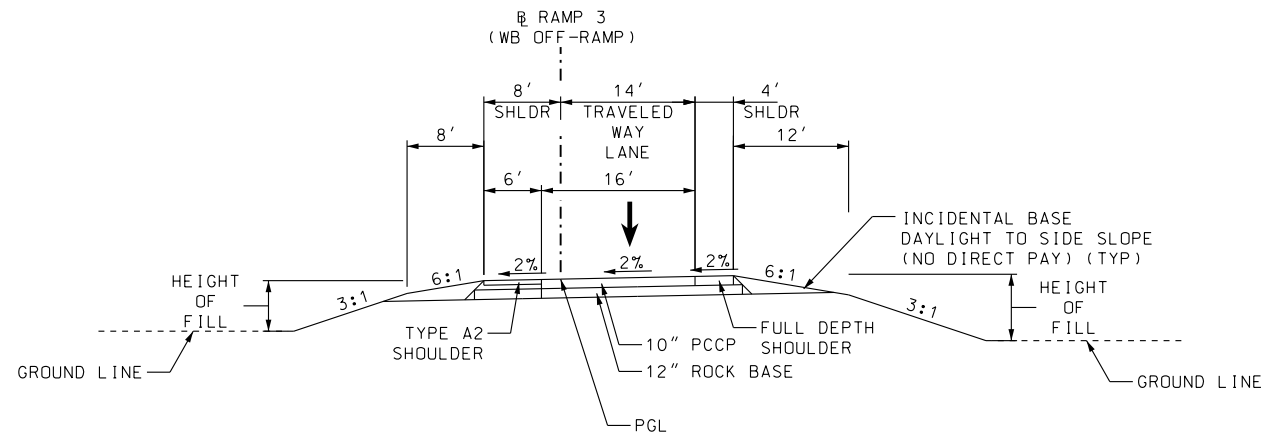
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**SECTION ON TANGENT
TYPICAL SECTION RAMP 3**

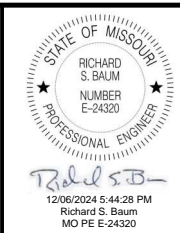
STA. 3+00.00 TO STA. 4+22.15 LT./4+20.74 RT.



**SECTION ON TANGENT
TYPICAL SECTION RAMP 3**

STA. 4+22.15 LT./5+20.74 RT. TO STA. 7+00.00

NOTE:
SEE INTERSECTION DETAILS FOR
LOCATION OF FULL DEPTH SHOULDER.



DATE PREPARED
6-DEC-2024

ROUTE A STATE MO

DISTRICT NE SHEET NO. 2

COUNTY WARREN

JOB NO. J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

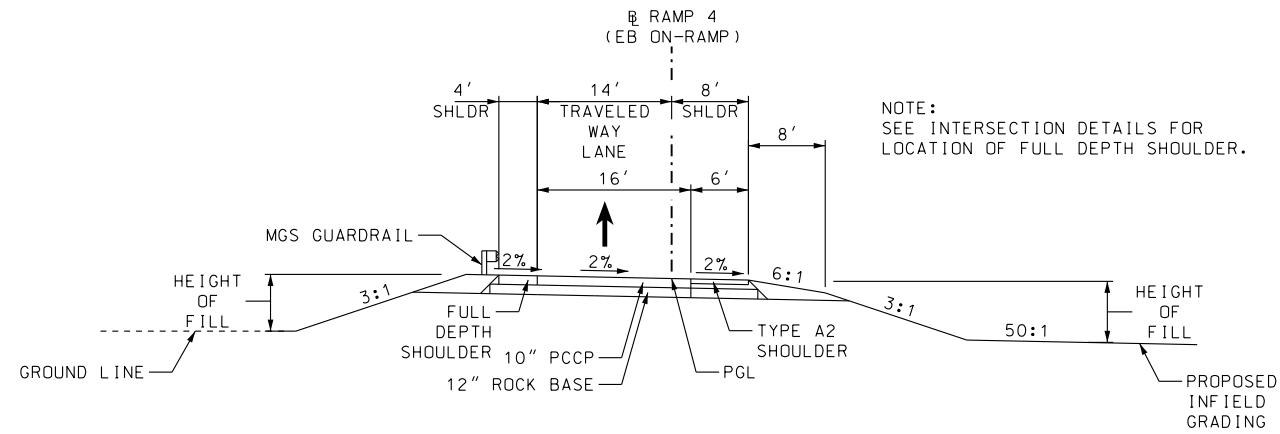
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JEFFERSON CITY, MO 65102
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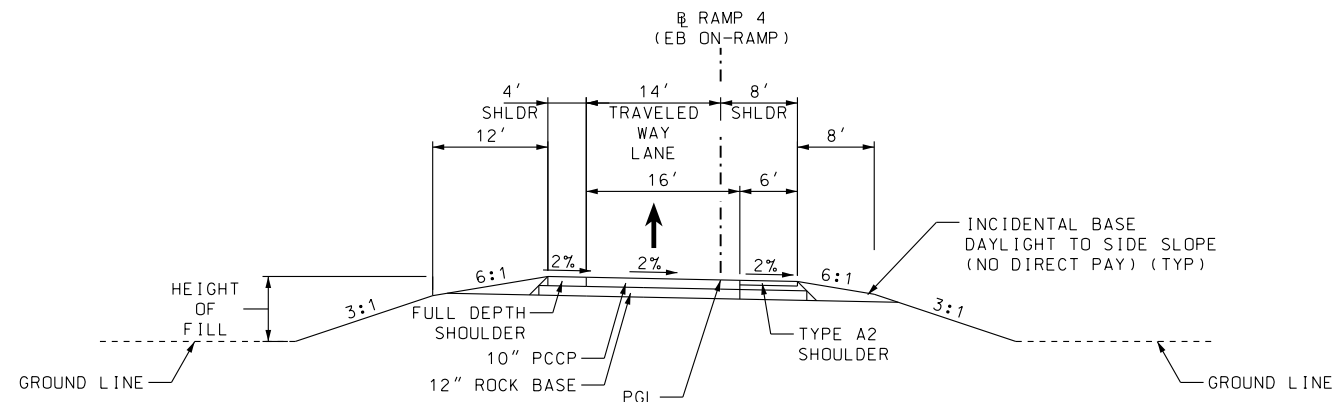
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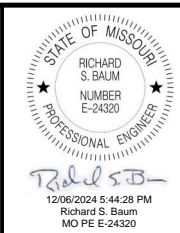
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SECTION ON TANGENT
TYPICAL SECTION RAMP 4
STA. 4+00.00 TO STA. 5+09.65



SECTION ON TANGENT
TYPICAL SECTION RAMP 4
STA. 5+09.65 TO STA. 8+00.00



DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 2
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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REMOVAL OF IMPROVEMENTS (1 OF 2)				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
18	8+30		ROUTE A, LT. & RT.	22 LF SAW CUT
18 & 56	9+17		ROUTE A, LT.	SIGN
18	12+61	20+68	ROUTE A, LT.	792 LF GUARDRAIL
18 & 56	13+07		ROUTE A, RT.	SIGN
18	13+13	20+68	ROUTE A, RT.	714 LF GUARDRAIL
18	14+01		ROUTE A, LT. & RT.	124 LF 36" CULVERT
18 & 56	17+03		ROUTE A, RT.	SIGN
18 & 56	18+01		ROUTE A, RT.	SIGN
18 & 56	18+01		ROUTE A, RT.	SIGN
18 & 56	20+44		ROUTE A, RT.	SIGN
18 & 56	20+58		ROUTE A, RT.	SIGN
18	20+77		ROUTE A, RT.	PULL BOX
18	20+77		ROUTE A, RT.	PULL BOX
18 & 56	21+15		ROUTE A, LT.	SIGN
18 & 56	21+15		ROUTE A, LT.	SIGN
18 & 56	21+72		ROUTE A, RT.	SIGN
18	21+74	22+22	ROUTE A, RT.	TEMP. CONC. BARRIER
18 & 56	21+98		ROUTE A, RT.	SIGN
18	21+99	22+61	ROUTE A, RT.	62 LF GUARDRAIL
18	22+00		ROUTE A, RT.	LIGHT POLE
18 & 56	22+16		ROUTE A, RT.	SIGN
18 & 56	22+16		ROUTE A, RT.	SIGN
18	22+22	22+61	ROUTE A, RT.	39 LF GUARDRAIL
18	22+44		ROUTE A, RT.	8" CMP
18	22+44		ROUTE A, RT.	8" CMP
18	123+52	125+21	I-70, LT. & RT.	345 LF GUARDRAIL
18	124+53	126+46	I-70, LT.	193 LF GUARDRAIL
18	124+02	124+52	I-70, LT.	50 LF CONCRETE BARRIER
18	10+60		NWSR, LT. & RT.	22 LF SAW CUT
18 & 56	11+96		NWSR, LT.	SIGN
18 & 56	12+05		NWSR, LT.	SIGN
18 & 56	12+93		NWSR, LT.	SIGN
18 & 56	12+96		NWSR, RT.	SIGN
18 & 56	14+00		NWSR, LT.	SIGN
18 & 56	14+00		NWSR, RT.	SIGN
18 & 56	15+15		NWSR, LT.	SIGN
18 & 56	15+74		NWSR, LT.	SIGN
18	16+81		NWSR, LT. & RT.	69 LF 48" CULVERT
18	19+30		NWSR, LT. & RT.	22 LF SAW CUT
18	9+70		RAMP 1, LT. & RT.	30 LF SAW CUT
18	11+64		RAMP 1, RT.	PULL BOX
18	11+68		RAMP 1, LT.	PULL BOX
18 & 56	3+34		RAMP 3, LT.	SIGN
18 & 56	3+34		RAMP 3, RT.	SIGN
18 & 56	4+60		RAMP 3, LT.	SIGN
18 & 56	4+71		RAMP 3, RT.	SIGN
18 & 56	5+86		RAMP 3, LT.	SIGN
18	7+00		RAMP 3, LT. & RT.	30 LF SAW CUT
18	8+30	22+61	ROUTE A	3571 SY PAVEMENT
18	10+60	13+34	NWSR	1000 SY PAVEMENT
18	13+65	19+30	NWSR	1646 SY PAVEMENT
18	9+70	12+35	RAMP 1	1119 SY PAVEMENT
18	2+60	7+00	RAMP 3	1713 SY PAVEMENT
19	24+60	25+23	ROUTE B, RT.	63 LF GUARDRAIL
19	24+60	25+12	ROUTE B, RT.	52 LF GUARDRAIL
19	24+77		ROUTE B, RT.	8" CMP
19	24+77		ROUTE B, RT.	8" CMP
18 & 57	24+98		ROUTE B, RT.	SIGN

REMOVAL OF IMPROVEMENTS (2 OF 2)				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
18 & 57	24+98		ROUTE B, RT.	SIGN
19	25+23		ROUTE B, RT.	LIGHT POLE
18 & 57	25+23		ROUTE B, RT.	SIGN
18 & 57	26+84		ROUTE B, RT.	SIGN
18 & 57	27+34		ROUTE B, RT.	SIGN
18 & 57	27+34		ROUTE B, RT.	SIGN
18 & 57	27+91		ROUTE B, RT.	SIGN
18 & 57	28+94		ROUTE B, RT.	SIGN
18 & 57	29+44		ROUTE B, RT.	SIGN
18 & 57	29+97		ROUTE B, RT.	SIGN
19	30+56		ROUTE B, RT.	PULL BOX
19	30+58		ROUTE B, RT.	LIGHT POLE
18 & 57	30+90		ROUTE B, LT.	SIGN
18 & 57	30+90		ROUTE B, LT.	SIGN
18 & 57	32+51		ROUTE B, RT.	SIGN
19	35+06		ROUTE B, LT. & RT.	69 LF 24" CULVERT
18 & 57	36+02		ROUTE B, LT.	SIGN
18 & 57	36+24		ROUTE B, RT.	SIGN
19	38+70		ROUTE B, LT. & RT.	22 LF SAW CUT
19	122+84	124+23	I-70, RT.	139 LF GUARDRAIL
19	124+23	124+73	I-70, RT.	50 LF CONCRETE BARRIER
19	72+11		WVMP, LT. & RT.	51 LF SAW CUT
18 & 57	73+24		WVMP, RT.	SIGN
19	74+71		WVMP, LT. & RT.	53 LF 18" CMP
18 & 57	78+02		WVMP, LT.	SIGN
18 & 57	78+65		WVMP, LT.	SIGN
18 & 57	79+10		WVMP, LT.	SIGN
18 & 57	79+58		WVMP, LT.	SIGN
18 & 57	80+07		WVMP, LT.	SIGN
18 & 57	80+57		WVMP, LT.	SIGN
18 & 57	81+47		WVMP, LT.	SIGN
19	82+60		WVMP, LT. & RT.	22 LF SAW CUT
19	10+65		RAMP 2, LT. & RT.	30 LF SAW CUT
18 & 57	11+15		RAMP 2, LT.	SIGN
18 & 57	11+15		RAMP 2, RT.	SIGN
18 & 57	12+24		RAMP 2, LT.	SIGN
18 & 57	12+24		RAMP 2, RT.	SIGN
18 & 57	12+80		RAMP 2, LT.	SIGN
18 & 57	12+82		RAMP 2, RT.	SIGN
18 & 57	12+82		RAMP 2, RT.	SIGN
19	4+46		RAMP 4, LT.	PULL BOX
19	4+46		RAMP 4, RT.	PULL BOX
19	8+00		RAMP 4, LT. & RT.	30 LF SAW CUT
19	24+60	38+70	ROUTE B	4230 SY PAVEMENT
19	72+11	73+71	WVMP	1291 SY PAVEMENT
19	74+03	82+60	WVMP	2545 SY PAVEMENT
19	10+65	13+34	RAMP 2	1206 SY PAVEMENT
19	3+60	8+00	RAMP 4	1801 SY PAVEMENT
			TOTAL	1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 11



DATE PREPARED
6-DEC-2024

ROUTE **A** STATE **MO**

DISTRICT **NE** SHEET NO. **3**

COUNTY
WARREN


JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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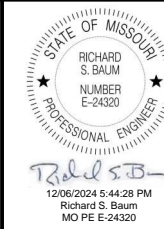
DESCRIPTION

DATE

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

EARTHWORK							
STATION	STATION	LOCATION	EXCAVATION CLASS A	EMBANKMENT IN PLACE	COMPACTING EMBANKMENT	FURNISHING ROCK FILL	PLACING ROCK FILL
			CY	CY	CY	CY	CY
STAGE 1							
14+50.00	20+50.00	ROUTE A	1272	11,834	1106	9361	9361
22+24.00	23+00.00	ROUTE A	0	2,160	0		
24+10.00	24+95.00	ROUTE B	0		2451		
32+00.00	36+00.00	ROUTE B	1572		422		
76+00.00	79+50.00	W. VETERANS MEMORIAL PKWY.	3755		26		
STAGE 2							
27+00.00	32+00.00	ROUTE B	279	1415	7330		
74+00.00	82+60.00	W. VETERANS MEMORIAL PKWY.	8845		604		
STAGE 3A							
30+00.00	38+70.00	ROUTE B	1927		209		
72+11.03	74+00.00	W. VETERANS MEMORIAL PKWY.	1350		16		
STAGE 3B							
15+50.00	23+00.00	ROUTE A	8164		1609		
9+70.00	13+04.53	RAMP 1	1905		1049		
3+00.00	7+00.00	RAMP 3	345	1209	6398		
24+10.00	30+00.00	ROUTE B	3392	375	2950		
10+65.00	14+04.72	RAMP 2	1739	436	1619		
4+00.00	8+00.00	RAMP 4	303		4515		
STAGE 4							
8+30.00	15+50.00	ROUTE A	1293	2964	1124		
10+60.00	19+30.00	NW SERVICE RD.	1319	2534	1147		
		TOTAL	37,460	22,927	32,575	9361	9361

COMPACTING IN CUT				
STATION	STATION	LOCATION	STA.	REMARKS
8+30	9+60	ROUTE A	1.3	
31+05	31+45	ROUTE B	0.4	
35+70	38+70	ROUTE B	3.0	
10+60	12+20	NW SERVICE RD.	1.6	
16+80	19+30	NW SERVICE RD.	2.5	
72+11	79+40	W. VETERANS MEMORIAL PKWY.	7.3	
80+60	82+60	W. VETERANS MEMORIAL PKWY.	2.0	
9+70	11+20	RAMP 1	1.5	
10+65	12+05	RAMP 2	1.4	
5+60	7+00	RAMP 3	1.4	
6+60	8+00	RAMP 4	1.4	
		TOTAL	23.8	



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ROUTE STATE
A MO

DISTRICT SHEET NO.
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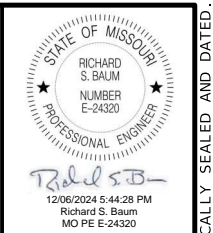
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PAVEMENT AND BASE									
SHEET	STATION	STATION	LOCATION	FURNISHING ROCK BASE MATERIAL (12 IN.)	PLACING ROCK BASE (12 IN.)	CONCRETE PAVEMENT (10 IN. NON-REINFORCED, 15 FT. JOINTS)	OPTIONAL PAVEMENT	TYPE A2 SHOULDER	REMARKS
				SY	SY	SY	SY	SY	
4	8+30.00	22+08.77	ROUTE A	5362	5362	5170.4			
4	9+70.00	12+86.04	RAMP 1	1093	1093	1051.9			
4	9+70.00	12+22.63	RAMP 1, LT.	192	192			168.4	OUTSIDE SHOULDER
4	3+18.37	7+00.00	RAMP 3	1228	1228	1179.9			
4	3+86.11	7+00.00	RAMP 3 LT.	238	238			209.3	OUTSIDE SHOULDER
4	10+60.00	13+43.48	NW SERVICE RD.	1546	1546	1485.9			
4	13+63.48	19+30.00	NW SERVICE RD.	2520	2520	2412.4			
5	25+10.77	32+09.99	ROUTE B	4423	4423	4369.4			
5	32+09.99	38+70.00	ROUTE B	2528	2528		2405.6		
5	10+65.00	13+86.24	RAMP 2	1201	1201	1155.9			
5	10+65.00	12+86.56	RAMP 2, LT.	168	168			147.7	OUTSIDE SHOULDER
5	4+18.37	8+00.00	RAMP 4	1313	1313	1264.3			
5	5+20.37	8+00.00	RAMP 4, LT.	212	212			186.4	OUTSIDE SHOULDER
5	72+11.03	74+15.39	W. VETERANS MEMORIAL PKWY.	1585	1585	1541.8			
5	74+42.75	82+60.00	W. VETERANS MEMORIAL PKWY.	4160	4160	4005.0			
			TOTAL	27,769	27,769	23,636.9	2405.6	711.8	

ENTRANCES						
SHEET	STATION	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	GRAVEL (A) OR CRUSHED STONE (B)	PAVED APPROACH 7 IN.	LOCATION
			SY	TONS	SY	
5	38+00.00	ROUTE B, LT.		18		6 IN. THICK (ASSUMED 1.4 TONS/CY)
5	72+42.49	W. VETERANS MEMORIAL PKWY.	49		48.9	
		TOTAL	49	18	48.9	

CONCRETE APPROACH PAVEMENT				
SHEET	STATION	STATION	LOCATION	SY
4	22+08.77	22+23.77	ROUTE A	93.3
5	24+95.77	25+10.77	ROUTE B	93.3
		TOTAL		186.6

CONCRETE MEDIAN STRIP						
SHEET	STATION	STATION	LOCATION	3 IN. HEIGHT	6 IN. HEIGHT	REMARKS
				SY	SY	
5	25+85	26+14	ROUTE B, LT.	43.3		
5	30+55	31+07	ROUTE B, RT.		97.0	
5	30+76	30+97	ROUTE B, LT.		39.7	
		TOTAL		43.3	136.7	

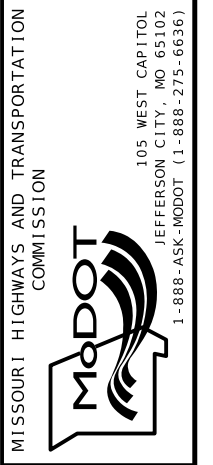


DATE PREPARED
6-DEC-2024

ROUTE A STATE MO
DISTRICT NE SHEET NO. 3
COUNTY WARREN
JOB NO. J2S3438
CONTRACT ID.

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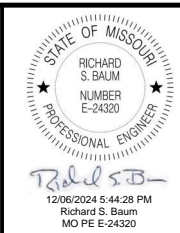


SUMMARY OF QUANTITIES
SHEET 3 OF 11

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PERMANENT PAVEMENT MARKING

SHEET	STATION	STATION	LOCATION	PERFORMED THERMOPLASTIC MARKING							HIGH BUILD WATERBORNE MARKING, TYPE L BEADS				REMARKS
				12 IN. WHITE	24 IN. WHITE	24 IN. YELLOW	LEFT/RIGHT ARROW	COMBINATION STR/LT/RT ARROW	WORD (ONLY)	YIELD LINE TRIANGLES	4 IN. WHITE	4 IN. YELLOW	6 IN. WHITE	6 IN. YELLOW	
				LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF	LF	LF	
69	8+30	11+30	ROUTE A, LT.										300		
69	8+30	11+44	ROUTE A									628			
69	8+30	11+27	ROUTE A, RT.										297		
69	12+60	7+00	ROUTE A / RAMP 3										1250		
69	12+73	9+70	ROUTE A / RAMP 1										1125		
69	12+60	21+09	ROUTE A									3412			MEDIAN MARKING
69	12+65	20+65	ROUTE A			177									HASH BARS
69	9+70	12+00	RAMP 1, RT.										230		
69	3+50	7+00	RAMP 3, RT.										353		
69	3+45		RAMP 3		43										STOP BAR
69	3+50	24+00	RAMP 3 /ROUTE A/B										244		
69	22+19	23+52	ROUTE A										133		
69	22+19	24+00	ROUTE A/B									364			
69	12+00	24+00	RAMP 1 / ROUTE A/B										313		
69	22+52		ROUTE A				1								
69	23+42		ROUTE A				1								
69	10+60	11+27	NWSR / ROUTE A								329				
69	10+60	13+16	NWSR									512			
69	13+16		NWSR		24										STOP BAR
69	10+60	12+73	NWSR / ROUTE A								304				
69	11+30	19+30	ROUTE A / NWSR								623				
69	13+84	19+30	NWSR									1091			
69	13+84		NWSR		20										
69	12+60	19+30	ROUTE A / NWSR								566				
70	24+00	5+01	ROUTE B / RAMP 4										211		
70	24+00	25+11	ROUTE B									222			
70	24+02	25+11	ROUTE B										109		
70	24+12		ROUTE B				1								
70	24+78		ROUTE B				1								
70	24+00	13+36	ROUTE B / RAMP 2										205		
70	10+65	13+36	RAMP 2, LT.										272		
70	13+41		RAMP 2, LT.		35										STOP BAR
70	5+01	8+00	RAMP 4, LT.										299		
70	4+48		RAMP 4, RT.						11						
70	10+65	30+04	RAMP 2 / ROUTE B										683		
70	8+00	30+19	RAMP 4 / ROUTE B										777		
70	25+85	30+19	ROUTE B, LT.										528		
70	26+03	30+83	ROUTE B, LT. & RT.									1575			
70	26+13	28+13	ROUTE B, LT. & RT.			75									HASH BARS
70	26+84	31+09	ROUTE B, RT.										947		
70	27+61	30+11	ROUTE B, RT.		77										HASH BARS
70	27+04	30+04	ROUTE B, LT. & RT.				6	3	6						
70	30+60	31+11	ROUTE B, RT.	80											HASH BARS
70	31+79	38+70	ROUTE B, LT.										682		
70	31+68	38+70	ROUTE B									1404			
70	32+10	38+70	ROUTE B, RT.										667		
70	72+11	30+04	WVMP / ROUTE B								229				
70	72+11	73+85	WVMP									348			
70	73+85		WVMP		33										STOP BAR
70	72+11	32+10	WVMP / ROUTE B								252				
70	73+57		WVMP, LT.							13					
70	30+19	82+60	ROUTE B / WVMP								837				
70	74+69	82+60	WVMP									1582			
70	31+79	82+60	ROUTE B / WVMP								850				
70	74+69		WVMP		12										
70	74+74		WVMP, LT.							9					
70	74+53	74+93	WVMP, LT.										117		
			TOTAL	80	244	252	10	3	6	33	3990	11,138	8588	1154	SUMMARY OF QUANTITIES SHEET 4 OF 11



DATE PREPARED
6-DEC-2024
 ROUTE STATE
A MO
 DISTRICT SHEET NO.
NE 3
 COUNTY
WARREN
 JOB NO.
J2S3438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DESCRIPTION

DATE

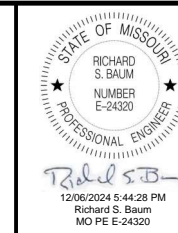
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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

DRAINAGE STRUCTURES																
SHEET	STR. NO.	STATION	LOCATION	GROUP A FES			GROUP B FES		SAFETY SLOPE END		INLETS, MANHOLES, PIPE COLLARS					EXCAVATION
				18 IN.	30 IN.	36 IN.	24 IN.	48 IN.	15 IN.	24 IN.	48" PRECAST CONC. MANHOLE	60" PRECAST CONC. MANHOLE	MANHOLE FRAME & COVER TYPE 4	TYPE A PIPE COLLAR	ADJUSTING MANHOLE	CLASS 3 EXCAVATION
				EA	EA	EA	EA	EA	EA	EA	EA	FT	FT	EA	EA	EA
5	01-01	35+09.6	ROUTE B, 56.0' RT.		1											
5	01-02	35+12.8	ROUTE B, 37.7' LT.		1											
5	02-01	75+26.3	WVMP, 32.3' RT.								1					
5	02-02	75+40.3	WVMP, 39.2' LT.				1									
4	04-01	16+81.1	NWSR, 44.6' LT.					1								
4	04-02	16+87.5	NWSR, 35.2' RT.					1								
4	05-01	13+92.3	ROUTE A, 78.6' LT.			1										
4	05-02	13+96.8	ROUTE A, 80.9' RT.			1										
4	07-01	17+26.9	ROUTE A, 82.7' LT			1										
4	07-02	18+98.9	ROUTE A, 66.3' LT								13	1				2
4	07-04	20+52.8	ROUTE A, 76.8' LT										1			
4	07-05	22+84.1	ROUTE A, 34.3' LT											1		
5	07-06	24+24.0	ROUTE B, 34.2' LT.										1			
5	07-07	24+36.8	ROUTE B, 34.2' LT.								5	1				1
5	07-08	24+37.2	ROUTE B, 74.9' LT.	1												
5	08-01	24+36.8	ROUTE B, 5.7' LT.										1			
5	09-01	37+82.8	ROUTE B, 25.3' LT.						1							
5	09-02	38+17.9	ROUTE B, 25.5' LT.						1							
			TOTAL	1	2	3	1	2	2	1	5	13	2	3	1	3

DRAINAGE PIPE CULVERTS											
SHEET	STR. NO.	STATION	LOCATION	GROUP A PIPE				GROUP B PIPE		GROUP C PIPE	EXCAVATION
				18 IN.	24 IN.	30 IN.	36 IN.	24 IN.	48 IN.	15 IN.	CLASS 3 EXCAVATION
				LF	LF	LF	LF	LF	LF	LF	CY
5	01-02	35+12.8	ROUTE B, 37.7' LT.			85					134
5	02-02	75+40.3	WVMP, 39.2' LT.					64			47
4	04-02	16+87.5	NWSR, 35.2' RT.						68		132
4	05-02	13+96.8	ROUTE A, 80.9' RT.				149				364
4	07-02	18+98.9	ROUTE A, 66.3' LT				179				33
4	07-04	20+52.8	ROUTE A, 76.8' LT.				157				32
5	07-07	24+36.8	ROUTE B, 34.2' LT.		11						1
5	07-08	24+37.2	ROUTE B, 74.9' LT.	36							2
5	08-01	24+36.8	ROUTE B, 5.7' LT.	26							3
5	09-01	37+82.8	ROUTE B, 25.3' LT.							32	14
			TOTAL	62	11	85	485	64	68	32	762



DATE PREPARED
6-DEC-2024

ROUTE A STATE MO
DISTRICT NE SHEET NO. 3
COUNTY WARREN
JOB NO. J2S3438
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION



Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
SHEET 8 OF 11

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

TRENCHING, CONDUIT, AND CABLE																				
SHEET NO.	FROM	TO	CIRCUIT	TRENCH TYPE I	CONDUIT, 2" IN TRENCH	CONDUIT, 3" IN TRENCH	CONDUIT, 4" IN TRENCH	CONDUIT, 4" PUSHED	CONDUIT, 2" IN BRIDGE	CABLE-CONDUIT, 1" 3/C#8	CABLES				NOTES					
											#8	#2	#8G	#6G						
52	SOURCE	PB1	SERVICE		45							171		57						
52	PB1	PB2	SERVICE					72				252		84						
52	PB2	PB3	SERVICE		288							900		300						
52	PB3	PB4	SERVICE		290							906		302						
52	PB4	CONTROLLER	SERVICE					190				606		202						
52	CONTROLLER	PB6	1, 2, 3, 4				37				392		49		INCLUDES 1 SPARE					
52	PB5	LT1	3	24						35										
52	PB5	PB6	1, 3, 4					91			618		103							
52	PB6	PB7	2	274						286					INTERCEPT CIRCUIT					
52	PB6	PB8	3					78			180		90							
52	PB8	LT2	3	9						20										
52	PB5	PB9	1, 4					128			560		140							
52	PB9	JB1	1, 4				22				136		34							
52, 53	JB1	JB2	1, 4							236	992		248							
53	JB2	PB10	1, 4				66				312		78							
53	PB10	LT3	4	20						31										
53	PB10	PB11	1, 4					70			328		82							
53	PB11	PB16	1	268						280					INTERCEPT CIRCUIT					
53	PB11	PB12	4					196			416		208							
53	PB12	LT4	4	20						31										
53	PB12	PB13	4	385						397										
53	PB13	LT6	4	39						50										
53	PB13	PB14	4					125			274		137							
53	PB14	LT5	4	30						41										
53	PB13	PB15	4					143			310		155							
53	PB15	LT7	4	15						26										
53	PB15	LT8	4	110			108			121										
TOTAL:					1194		623		196		37		1093		1318	4518	2835	1324	945	

NOTES: 1. ALL CONDUCTORS WILL BE XLP/USE, NO SUBSTITUTIONS ALLOWED. 2. SEE BRIDGE PLANS FOR CONDUIT SYSTEM ON STRUCTURE.

PAD MOUNTED POWER SUPPLY / CONTROLLER												
SHEET NO.	STA.	OFFSET	LOCATION	NAME	BREAKER (AMPS)					CONTROL STATION, 240V	POWER SUPPLY ASSEMBLY TYPE 1	
					MAIN	1	2	3	4			
52	20+52.51	34.16	RT	ROUTE A/B	CONTROLLER	100	20	20	20	20	1	1
TOTAL:											1	1

NOTE: FUSE HOLDERS SHALL BE HEB-JW-RYC, NO SUBSTITUTIONS ALLOWED.



12/06/2024 8:13:04 AM
Laura Anne Glaser - Electrical
MO PE-2010001771

DATE PREPARED
6-DEC-2024

ROUTE A STATE MO
DISTRICT NE SHEET NO. 3

COUNTY WARREN
JOB NO. J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DRIVE

ST. LOUIS, MISSOURI 63110

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

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ST. LOUIS, MISSOURI 63110

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JACOBS

JACOBS ENGINEERING GROUP

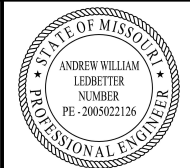
1001 HIGHLANDS PLAZA DRIVE

ST. LOUIS, MISSOURI 63110

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

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



12/19/2024 3:11:41 PM
Andrew W. Ledbetter - Civil
MO PE - 200502126

DATE PREPARED
19-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 3

COUNTY
WARREN

JOB NO.
J2S3438

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)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00	2	36.00			16	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00	2	36.00	2	36.00	17	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	4	64.00			11	BE PREPARED TO STOP
WO3-5	48X48	16.00	6	96.00	4	64.00	5	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	2	32.00			6A	MERGE (LEFT)
WO4-1aR	48X48	16.00	2	32.00			6A	MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
WO10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00	16	80.00			2A	X MILE (PLAQUE)
WO20-1	48X48	16.00	26	416.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	2	32.00			18	DETOUR AHEAD
WO20-3	48X48	16.00	11	176.00	14	224.00	20-23	ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	4	64.00	4	64.00	5A	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32.00	2	32.00	6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	4	64.00	2	32.00	8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	4	64.00			9	SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	8	64.00			14	END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	4	24.00			54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	2	6.00			15	END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	12	144.00			4, 25	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	10	100.00	11	111.00	29	ROAD CLOSED
R11-3a	60X30	12.50	2	25.00	1	12.50	51, 52	ROAD CLOSED XX MILES AHEAD
R11-4	60X30	12.50	2	25.00	1	12.50	53	LOCAL TRAFFIC ONLY
CONST-3A	60X48	20.00					30	ROAD CLOSED TO THRU TRAFFIC
CONST-3X	56X12	4.67						FINE SIGN
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64.00			50	POINT OF PRESENCE
CONST-8	48X36	12.00	4	48.00			59	WORK ZONE NO PHONE ZONE
SPECIAL	36X78	19.50	28	546.00	5	97.50		NUMBERED ROUTE ASSEMBLY
SPECIAL	48X60	20.00	5	100.00				WEST VETERANS MEMORIAL PARKWAY

616-10.05	TOTAL	
CONSTRUCTION SIGNS	2370.00	
616-10.10	TOTAL	
RELOCATED SIGNS	685.50	

* NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNING OR DEVICES
** NOT INCLUDED IN LUMP SUM TRAFFIC CONTROL

NOTE:
ALL WARNING SIGNS SHALL HAVE FLORESCENT SHEETING.
ALL TRAFFIC CONTROL IS INCLUDED IN PAY ITEM 616-99-01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

- (A) STA. 14+45.00 RTE. A
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (B) STA. 4+22.15 RAMP 3
END MGS
BEGIN TYPE A CRASHWORTHY END TERMINAL
- (C) STA. 4+20.74 RAMP 3
END MGS
BEGIN TYPE A CRASHWORTHY END TERMINAL
- (D) STA. 21+98.48 RTE. A
END MGS
BEGIN BRIDGE APPROACH TRANSITION
- (E) STA. 11+98.18 RAMP 1
END END ANCHOR
BEGIN MGS
- (F) STA. 21+98.39 RTE. A
END MGS
BEGIN BRIDGE APPROACH TRANSITION
- (G) STA. 127+27.50 I-70
END MGS
BEGIN TYPE A CRASHWORTHY END TERMINAL
- (H) STA. 124+65.00 I-70
END END ANCHOR
BEGIN MGS
- (I) STA. 127+90.00 I-70
END MGS
BEGIN TYPE A CRASHWORTHY END TERMINAL
- (J) STA. 124+65.00 I-70
END END ANCHOR
BEGIN MGS
- (K) STA. 121+95.00 I-70
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (L) STA. 125+20.00 I-70
END MGS
BEGIN END ANCHOR
- (M) STA. 22+08.77 RTE. A
END PAVEMENT
BEGIN APPROACH PAVEMENT
- (N) STA. 22+23.77 RTE. A
END APPROACH PAVEMENT
BEGIN APPROACH SLAB
- (O) STA. 22+43.27 RTE. A
BEGIN BRIDGE A9374

- GENERAL NOTES**
- BEARINGS SHOWN ARE STATE PLANE EASTERN ZONE.
 - RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA 12+89.02 TO STA 39+33.13 @ ROUTE A/B, A DISTANCE OF 0.50 MILES.
 - ENTRANCES CAN BE WIDENED UP TO 60' BY PERMIT.
 - RIGHT OF WAY STATIONING AND OFFSETS ARE TIED TO NEW ROUTE A @ UNLESS OTHERWISE NOTED.
 - SEE SHEETS 20-23 FOR EXISTING AND PROPOSED ALIGNMENT DETAILS.
 - SEE SHEET 18 FOR REMOVAL OF IMPROVEMENTS.
 - SEE SHEET 24 FOR INTERSECTION DETAILS.
 - SEE SHEET 73 FOR CHANNEL LINING DETAILS, INCLUDING TYPE, LOCATION, AND DIMENSIONS. SEE SHEET 26 FOR GRADING DETAILS.
 - SEE SHEET 73 FOR ROCK OUTFALL FOR CULVERT OUTLET DETAILS.

PROPERTY N/F
HARRY M. BOEGEMAN, TRUSTEE UNDER
THE HARRY M. BOEGEMAN
LIVING TRUST, 11/05/94
DB 283, PG 441

0.11 AC NEW R/W
90.62 AC REMAINING

NE 1/4, NW 1/4,
SEC. 14 T47N R3W

STA. 11+94.50 @ ROUTE A =
STA. 13+53.48 @ NW SERVICE ROAD

BEGIN PROJECT J2S3438
STA. 8+30.00
@ ROUTE A

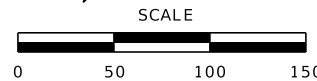
IMPROVEMENT BEGINS AT A POINT
920.12' SOUTH AND 4092.35' EAST
OF A FOUND ALUMINUM MONUMENT AT
THE NORTH QUARTER CORNER OF
SECTION 15, TOWNSHIP 47 NORTH,
RANGE 3 WEST, WARREN COUNTY, SET
BY ROBERT L. LEWIS, L.S. NO.1004,
PER DOCUMENT NO.600-65237.

NEW PAVEMENT

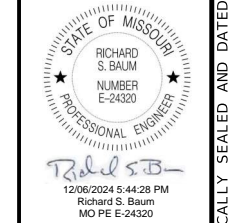
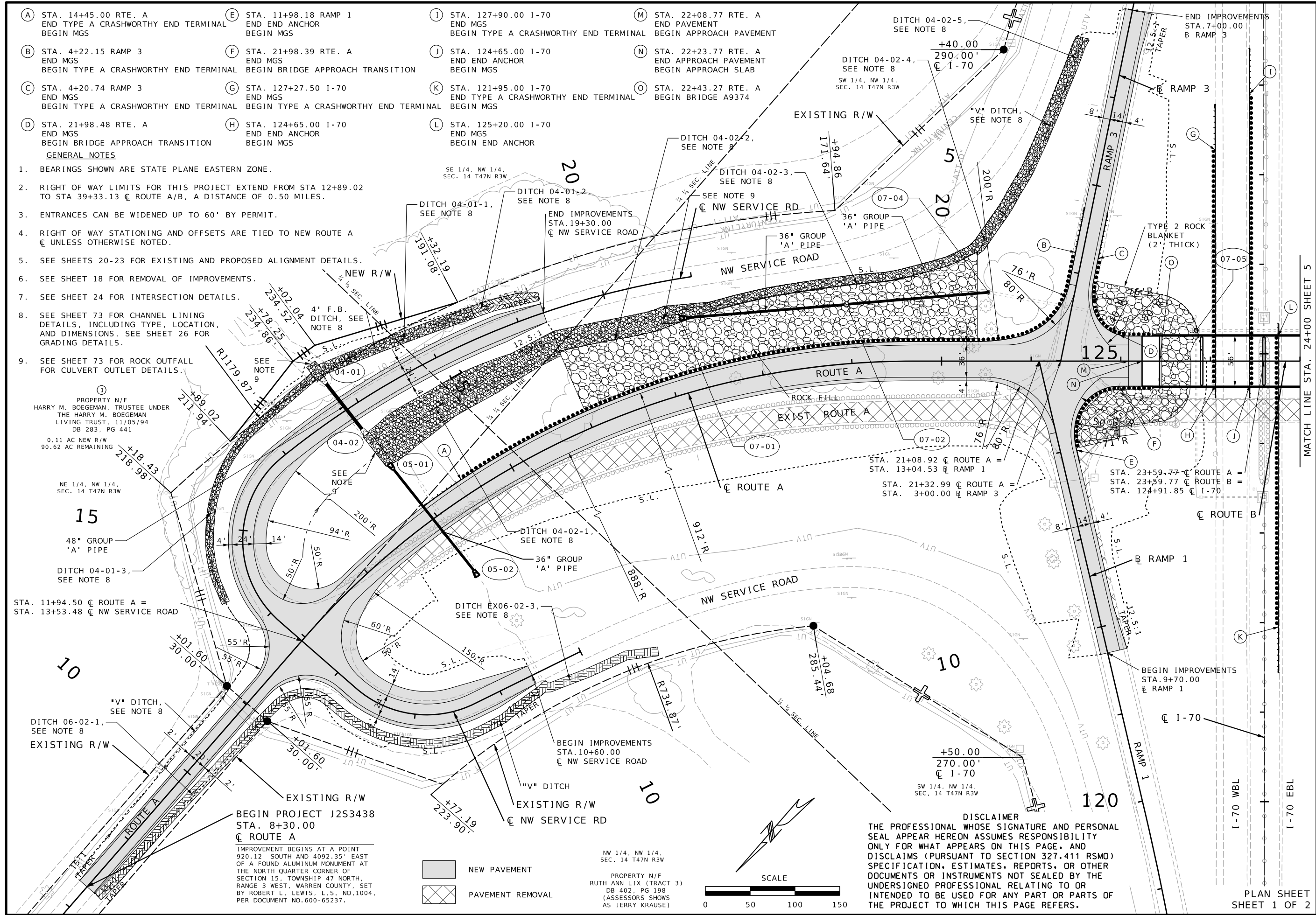
PAVEMENT REMOVAL

NW 1/4, NW 1/4,
SEC. 14 T47N R3W

PROPERTY N/F
RUTH ANN LIX (TRACT 3)
DB 402, PG 198
(ASSESSORS SHOWS
AS JERRY KRAUSE)



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DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 4
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

MATCH LINE STA. 24+00 SHEET 5

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

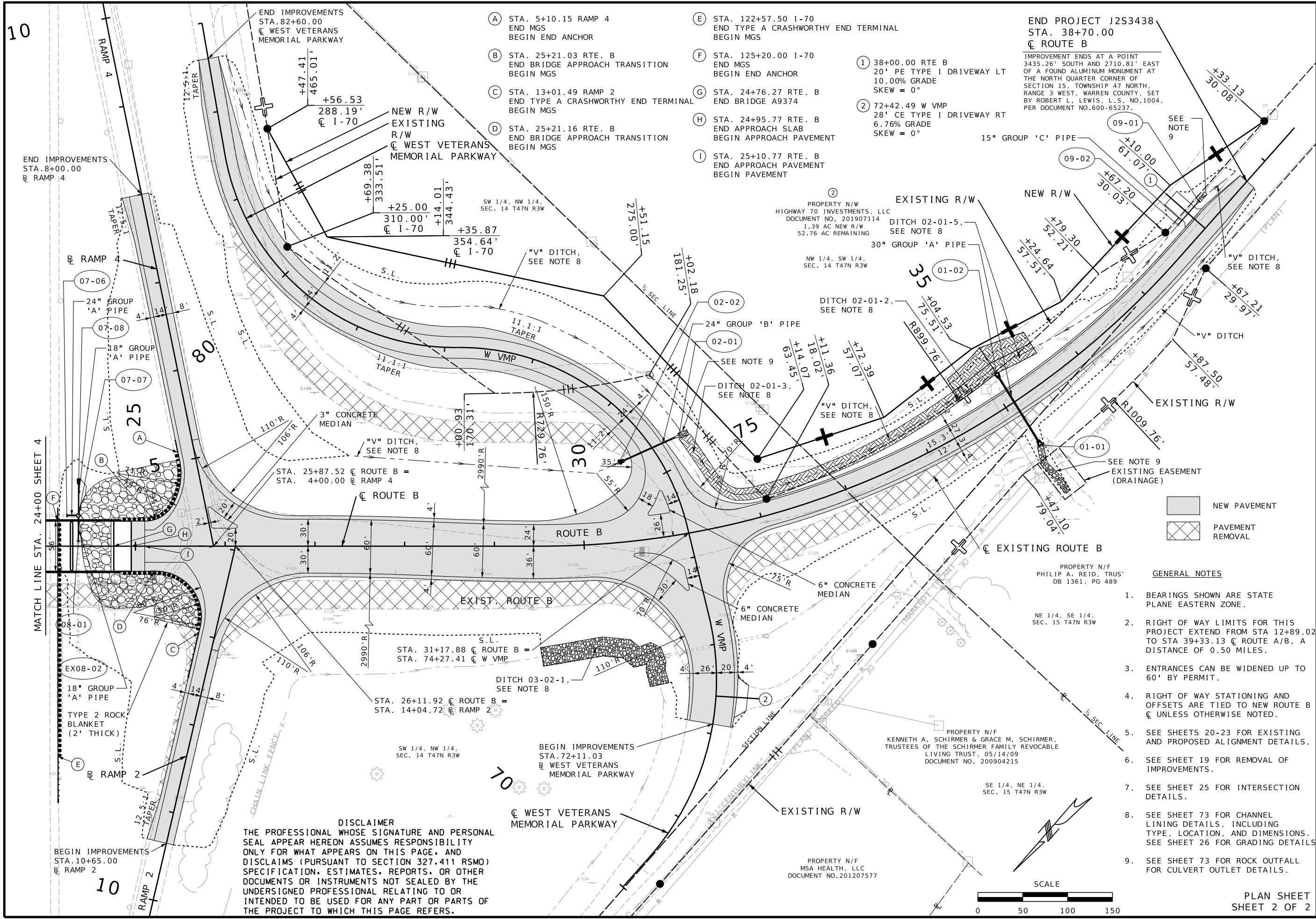


105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

PLAN SHEET
SHEET 1 OF 2

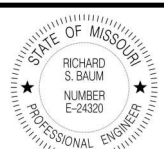
10



- (A) STA. 5+10.15 RAMP 4
END MGS
BEGIN END ANCHOR
- (B) STA. 25+21.03 RTE. B
END BRIDGE APPROACH TRANSITION
BEGIN MGS
- (C) STA. 13+01.49 RAMP 2
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (D) STA. 25+21.16 RTE. B
END BRIDGE APPROACH TRANSITION
BEGIN MGS
- (E) STA. 122+57.50 I-70
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (F) STA. 125+20.00 I-70
END MGS
BEGIN END ANCHOR
- (G) STA. 24+76.27 RTE. B
END BRIDGE A9374
- (H) STA. 24+95.77 RTE. B
END APPROACH SLAB
BEGIN APPROACH PAVEMENT
- (I) STA. 25+10.77 RTE. B
END APPROACH PAVEMENT
BEGIN PAVEMENT

END PROJECT J2S3438
STA. 38+70.00
C ROUTE B

IMPROVEMENT ENDS AT A POINT
3435.26' SOUTH AND 2710.81' EAST
OF A FOUND ALUMINUM MONUMENT AT
THE NORTH QUARTER CORNER OF
SECTION 15, TOWNSHIP 47 NORTH,
RANGE 3 WEST, WARREN COUNTY, SET
BY ROBERT L. LEWIS, L.S. NO. 1004,
PER DOCUMENT NO. 600-65237.



DATE PREPARED
6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	5

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

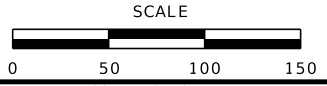
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- NEW PAVEMENT
- PAVEMENT REMOVAL

- GENERAL NOTES**
- BEARINGS SHOWN ARE STATE PLANE EASTERN ZONE.
 - RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA 12+89.02 TO STA 39+33.13 C ROUTE A/B, A DISTANCE OF 0.50 MILES.
 - ENTRANCES CAN BE WIDENED UP TO 60' BY PERMIT.
 - RIGHT OF WAY STATIONING AND OFFSETS ARE TIED TO NEW ROUTE B UNLESS OTHERWISE NOTED.
 - SEE SHEETS 20-23 FOR EXISTING AND PROPOSED ALIGNMENT DETAILS.
 - SEE SHEET 19 FOR REMOVAL OF IMPROVEMENTS.
 - SEE SHEET 25 FOR INTERSECTION DETAILS.
 - SEE SHEET 73 FOR CHANNEL LINING DETAILS, INCLUDING TYPE, LOCATION, AND DIMENSIONS. SEE SHEET 26 FOR GRADING DETAILS.
 - SEE SHEET 73 FOR ROCK OUTFALL FOR CULVERT OUTLET DETAILS.

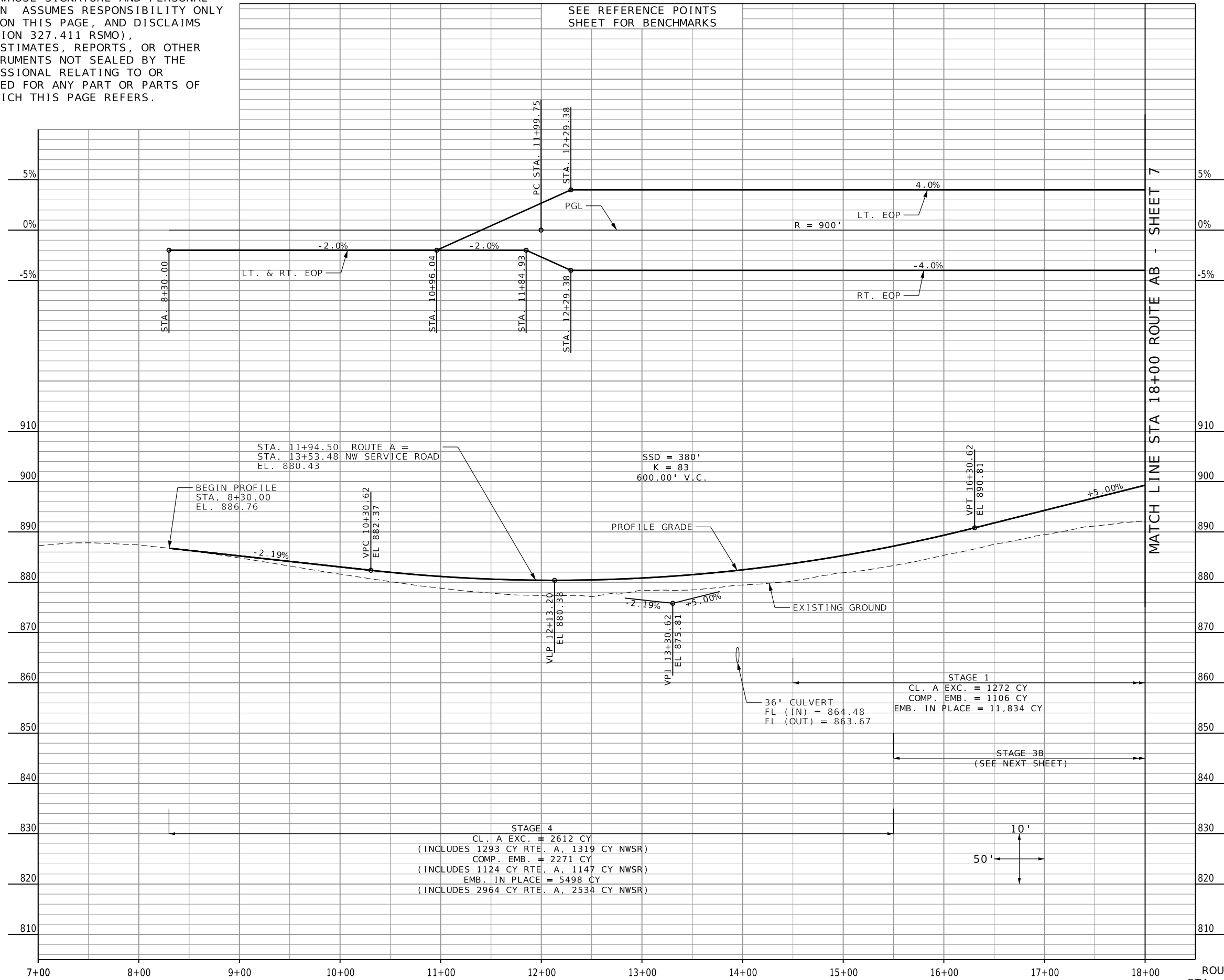
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PLAN SHEET
SHEET 2 OF 2

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SEE REFERENCE POINTS SHEET FOR BENCHMARKS

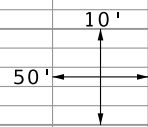


STAGE 4
 CL. A EXC. = 2612 CY
 (INCLUDES 1293 CY RTE. A, 1319 CY NWSR)
 COMP. EMB. = 2271 CY
 (INCLUDES 1124 CY RTE. A, 1147 CY NWSR)
 EMB. IN PLACE = 5498 CY
 (INCLUDES 2964 CY RTE. A, 2534 CY NWSR)

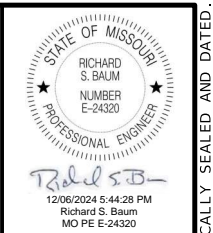
STAGE 1
 CL. A EXC. = 1272 CY
 COMP. EMB. = 1106 CY
 EMB. IN PLACE = 11,834 CY

STAGE 3B
 (SEE NEXT SHEET)

36" CULVERT
 FL (IN) = 864.48
 FL (OUT) = 863.67



ROUTE AB PROFILE
 STA. 8+30 TO 18+00



DATE PREPARED
6-DEC-2024
 ROUTE A STATE MO
 DISTRICT NE SHEET NO. 6
 COUNTY WARREN
 JOB NO. J2S3438
 CONTRACT ID.

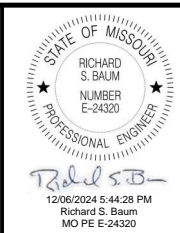
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 7
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

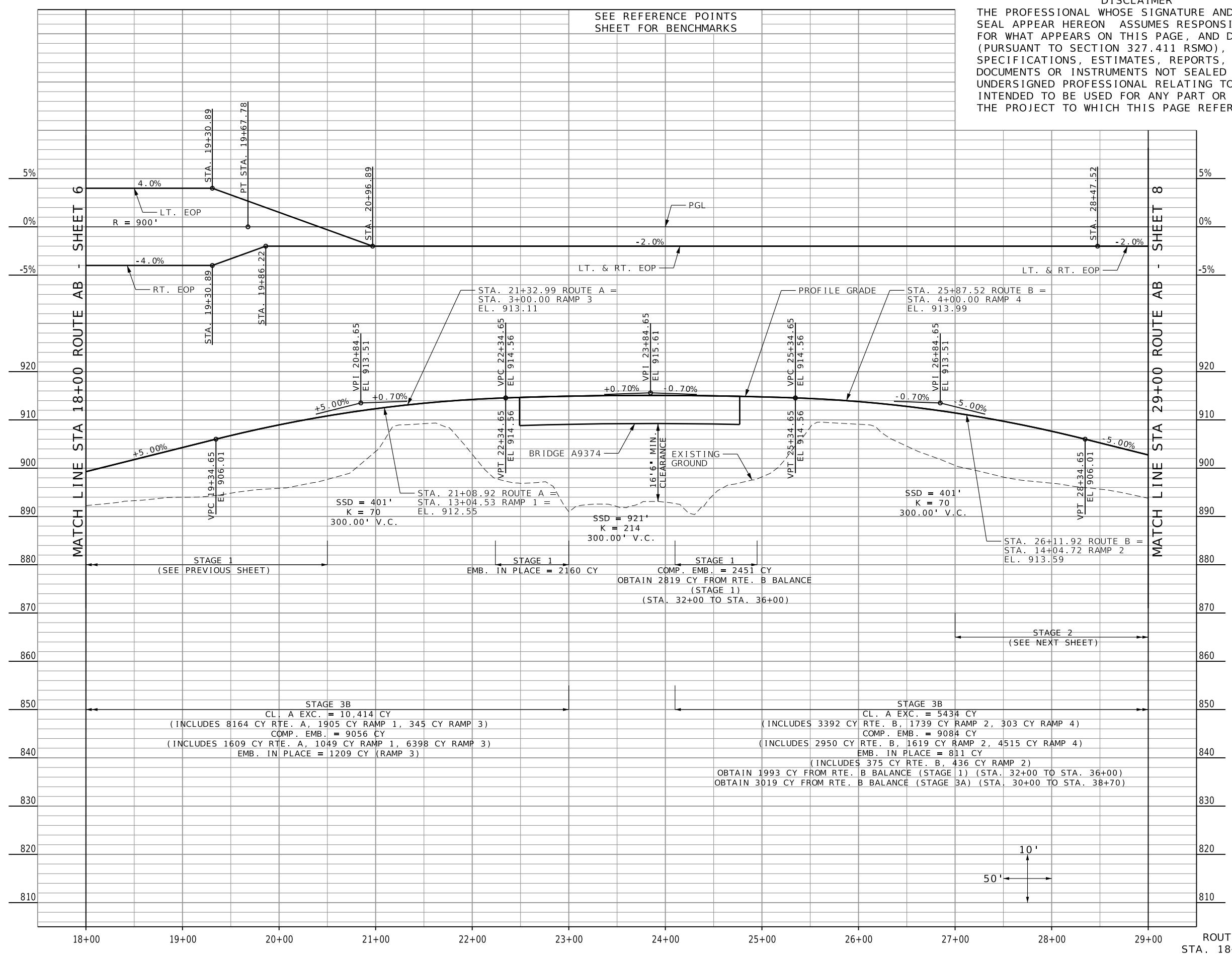
DATE	DESCRIPTION

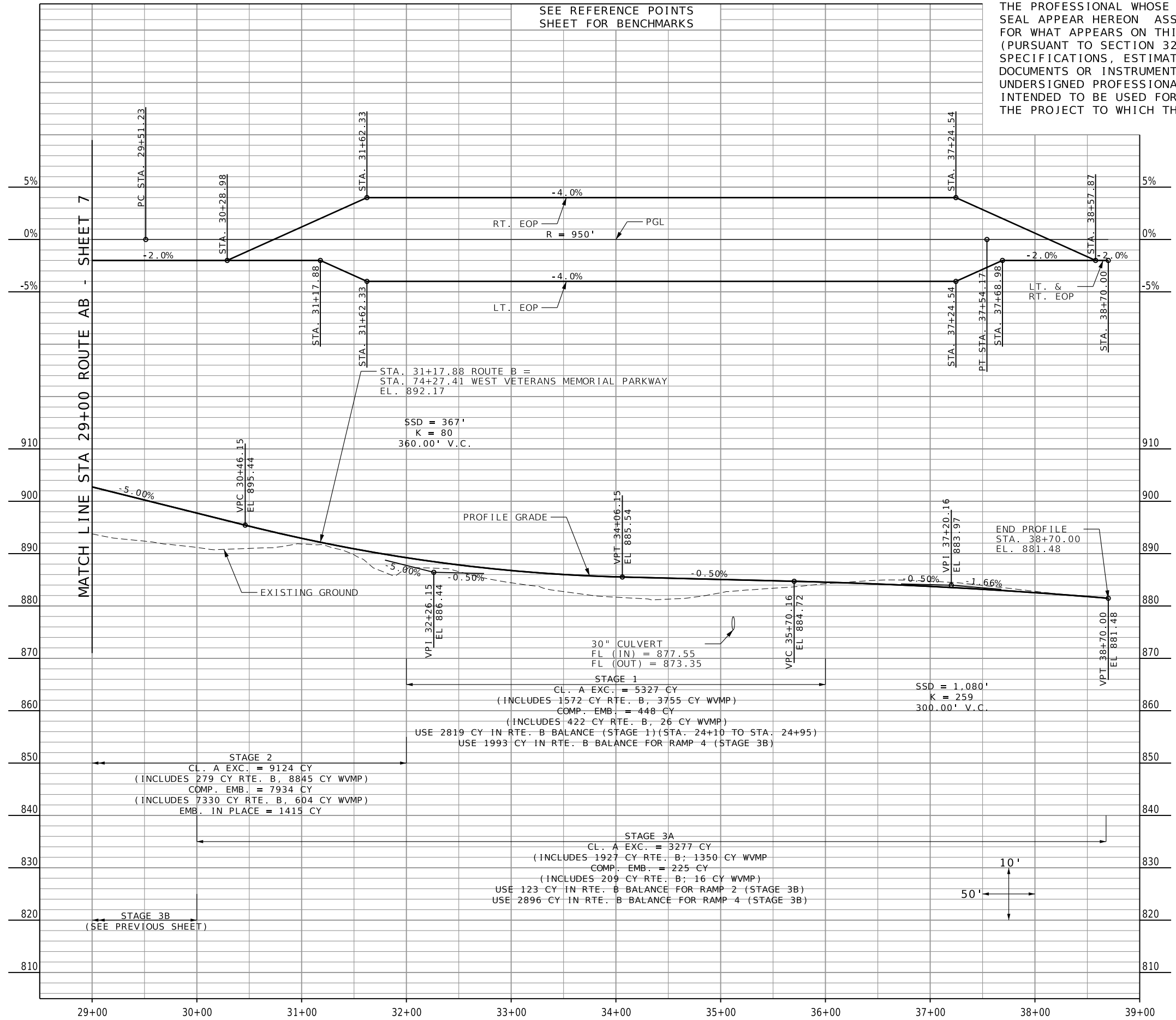
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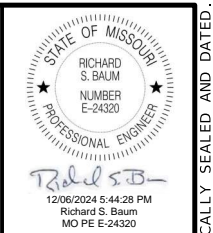
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SEE REFERENCE POINTS SHEET FOR BENCHMARKS

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DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 8
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

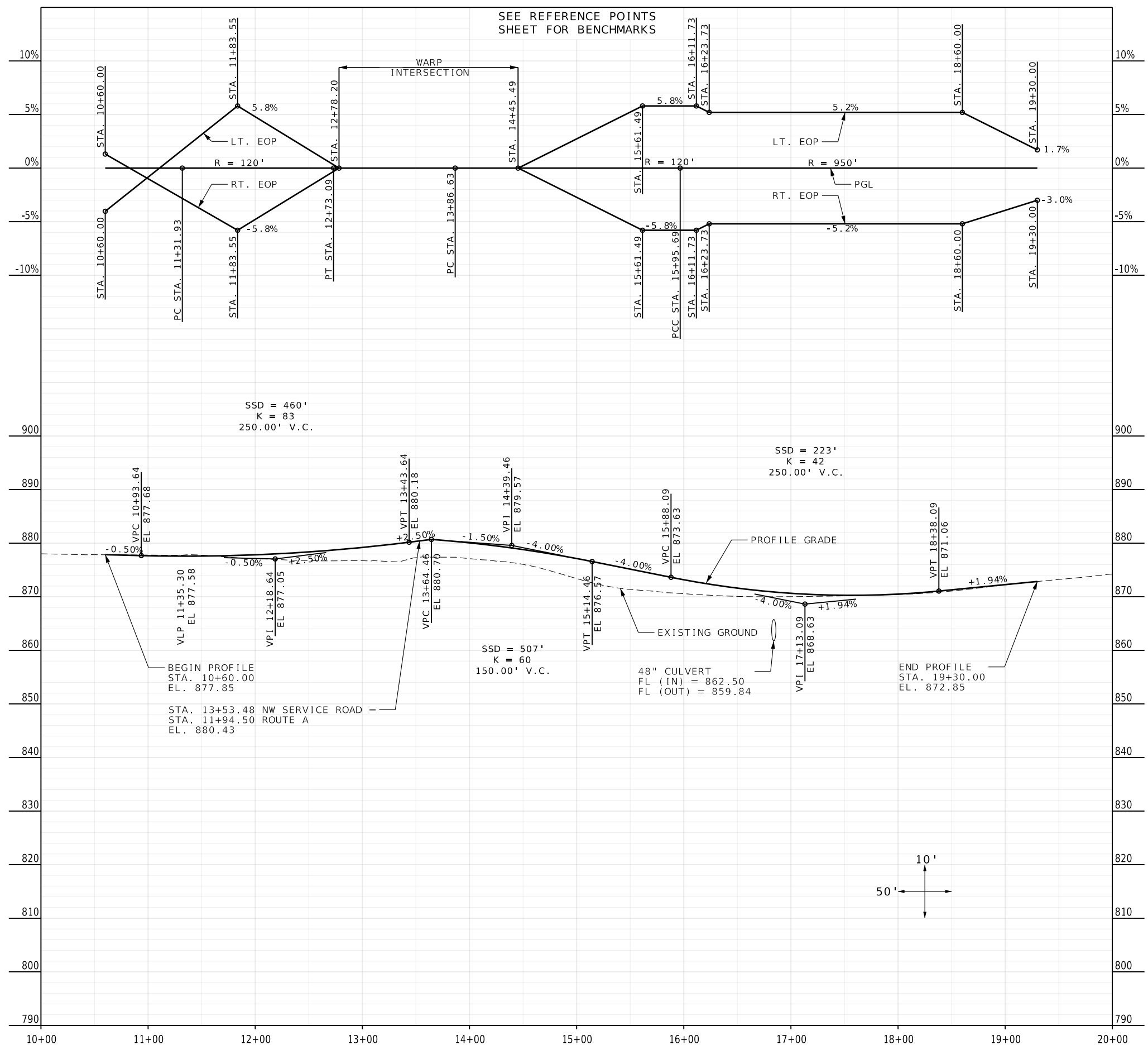
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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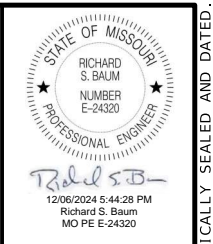
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 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

ROUTE AB PROFILE
 STA. 29+00 TO 38+00

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DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 9
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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NW SERVICE RD PROFILE
 STA. 10+60 TO 19+30

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

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STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER
 Richard S. Baum
 12/06/2024 5:44:28 PM
 MO PE E-24320

DATE PREPARED
 6-DEC-2024
 ROUTE A STATE MO
 DISTRICT NE SHEET NO. 10
 COUNTY WARREN
 JOB NO. J2S3438
 CONTRACT ID.

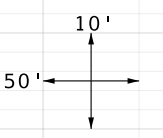
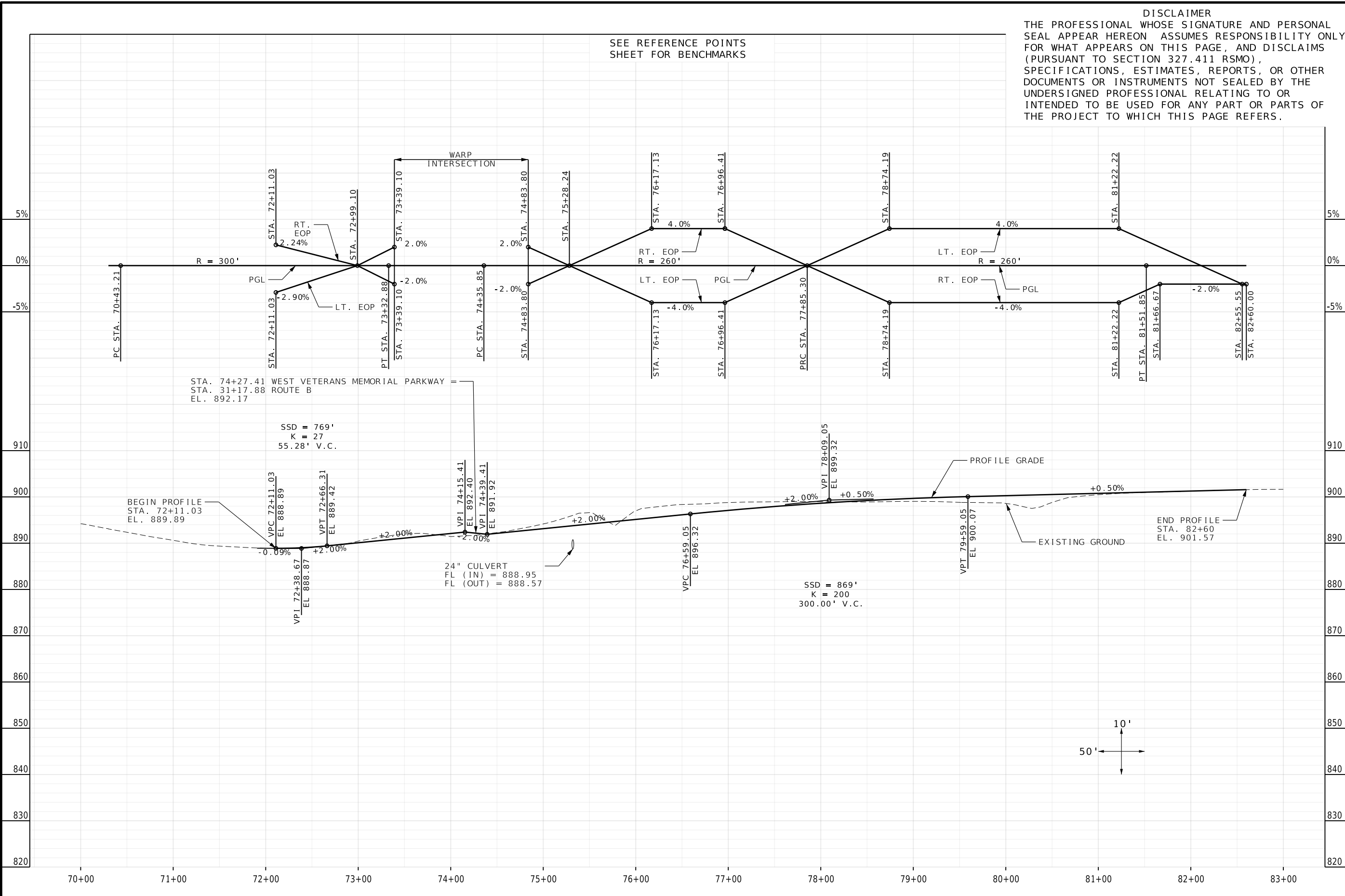
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

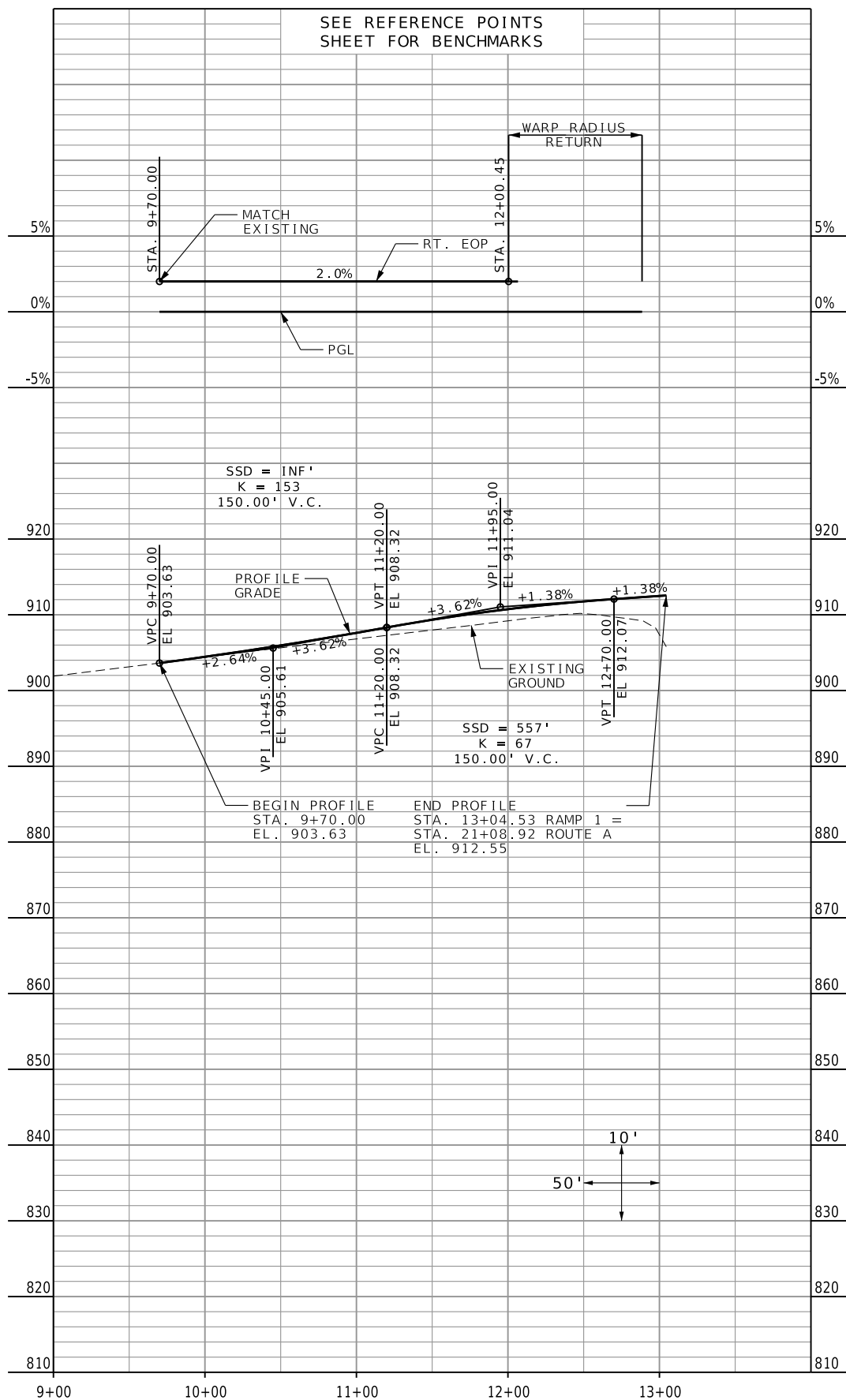
Jacobs
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 CERTIFICATE OF AUTHORITY #00704



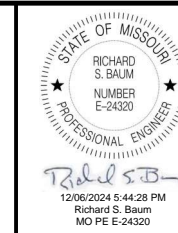
W VMP PROFILE
 STA. 72+11.03 TO 82+60

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

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RAMP 1 PROFILE
 STA. 9+70 TO 13+04.53



DATE PREPARED
 6-DEC-2024

ROUTE A STATE MO
 DISTRICT NE SHEET NO. 11

COUNTY WARREN
 JOB NO. J253438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

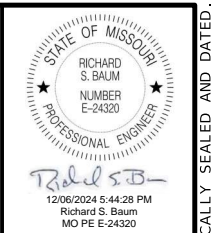
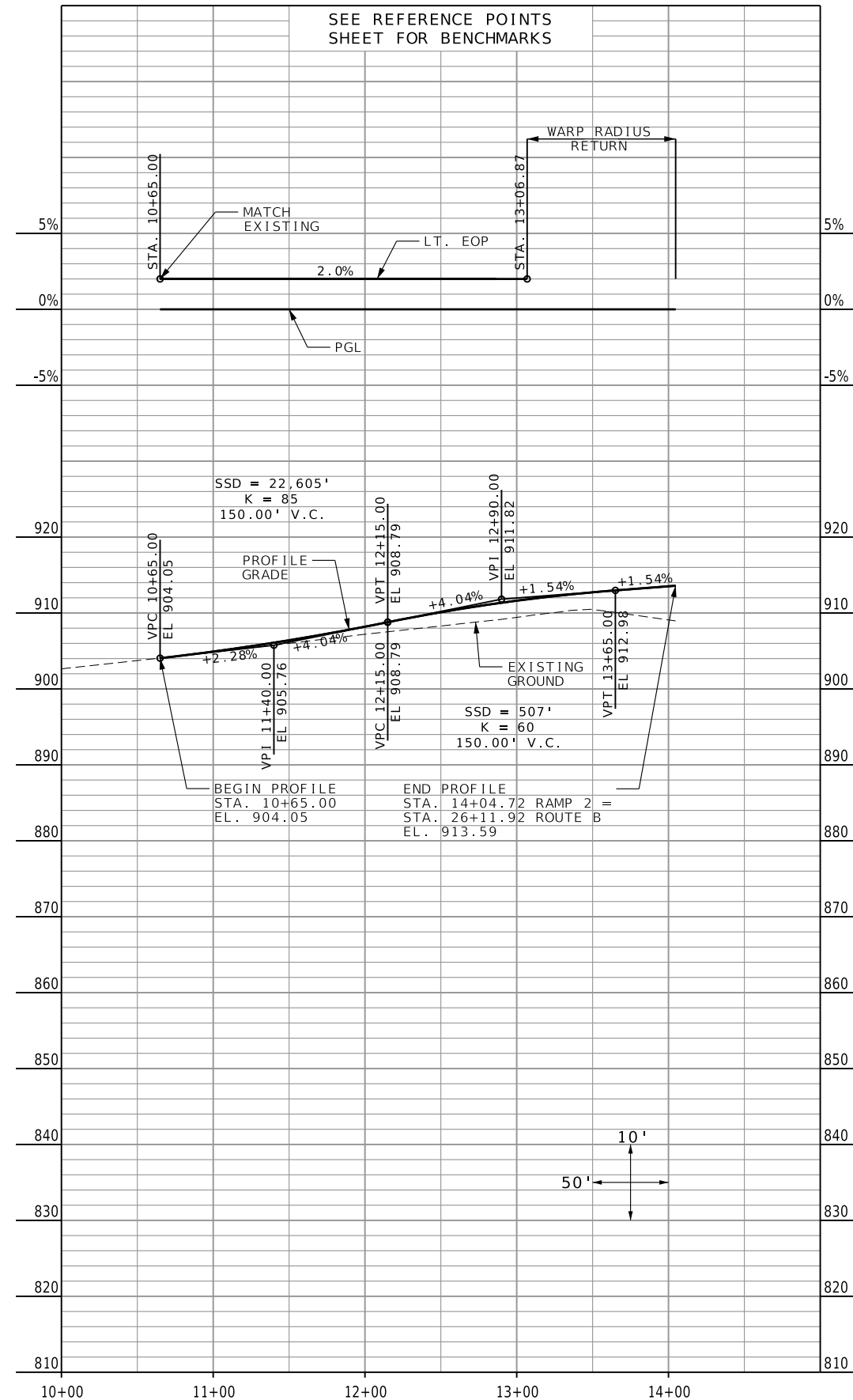
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 12

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

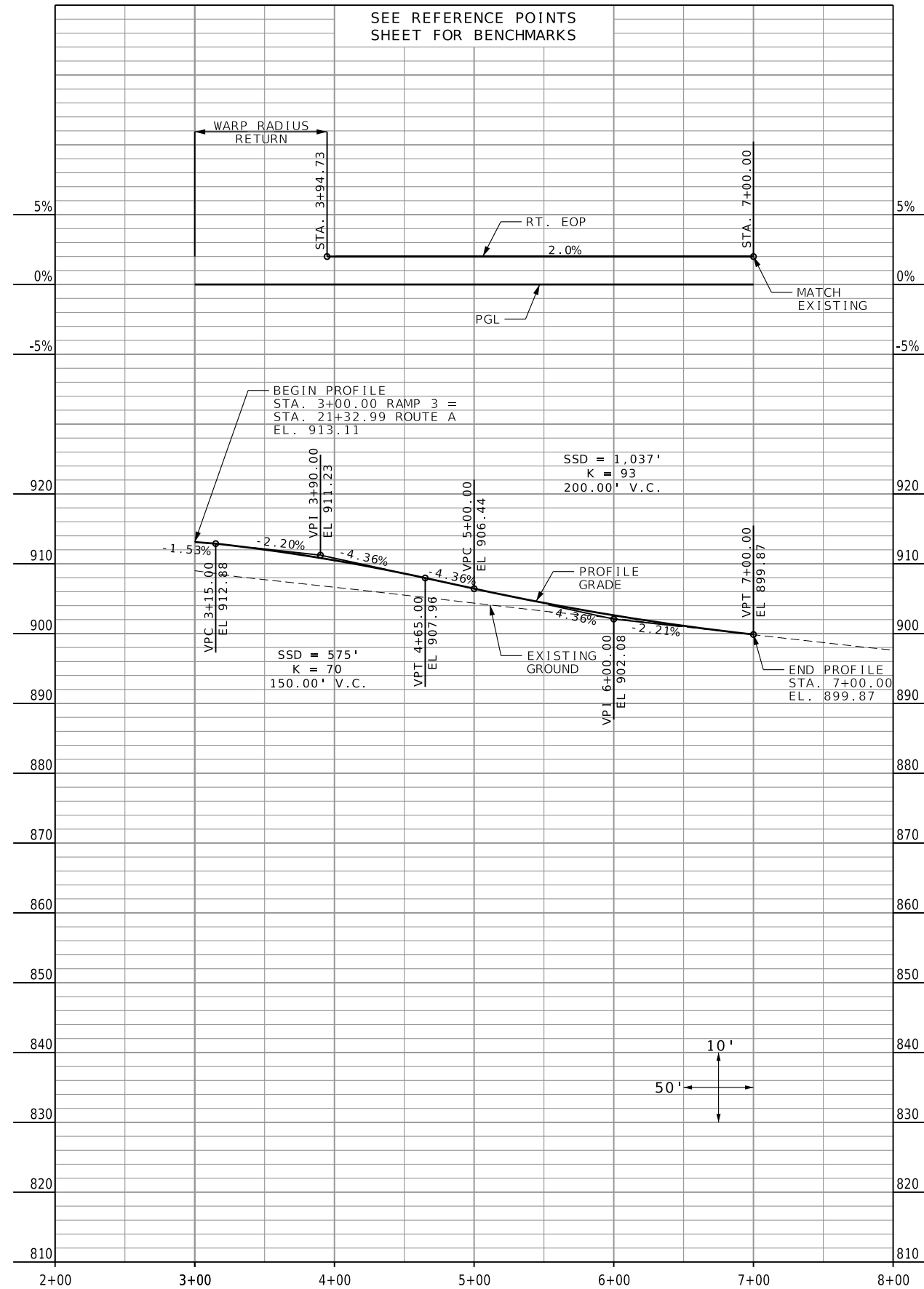
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

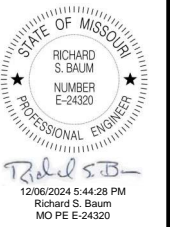
RAMP 2 PROFILE
 STA. 10+65 TO 14+04.72

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

DISCLAIMER
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RAMP 3 PROFILE
 STA. 3+00 TO 7+00



DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 13
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

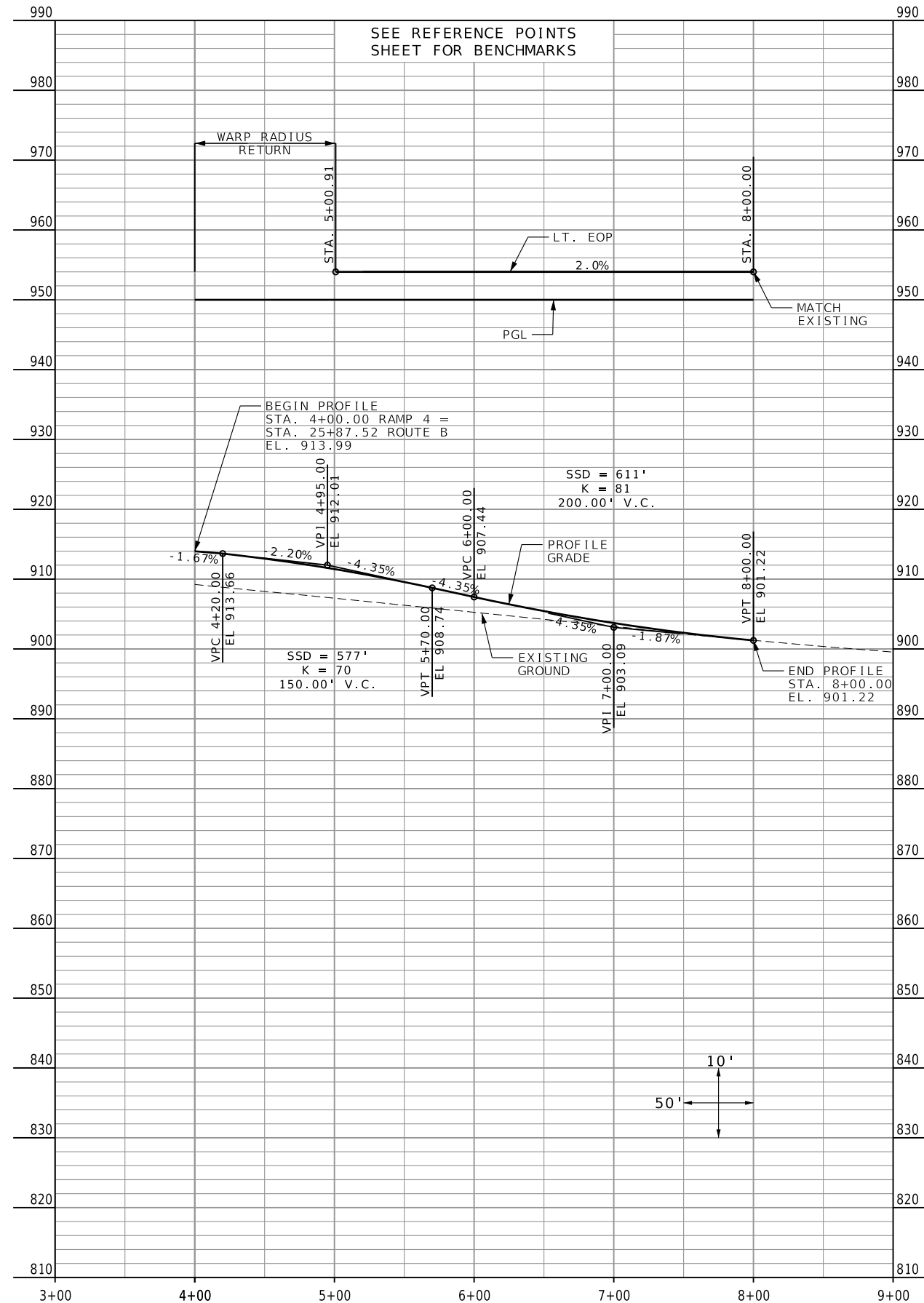
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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Jacobs
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 ST. LOUIS, MISSOURI 63110
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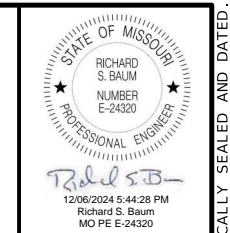
SEE REFERENCE POINTS SHEET FOR BENCHMARKS

BEGIN PROFILE
 STA. 4+00.00 RAMP 4 =
 STA. 25+87.52 ROUTE B
 EL. 913.99

SSD = 611'
 K = 81
 200.00' V.C.

SSD = 577'
 K = 70
 150.00' V.C.

END PROFILE
 STA. 8+00.00
 EL. 901.22



DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 14
COUNTY WARREN	
JOB NO. J2S3438	
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)

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

RAMP 4 PROFILE
 STA. 4+00 TO 8+00

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

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED MISSOURI STATE PLANE
HORIZONTAL DATUM	NAD 83 (2011) (EPOCH 2010)
VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	12B
ELEVATIONS DETERMINED BY	GNS DERIVED
PROJECT PROJECTION FACTOR	1.0000564487

REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MO CORS
DESIGNATION	MODOT WARRENTON CORS ARP
CORS_ID	MOWR
PID	DL6157
LATITUDE	38°48'52.70169" (N)
LONGITUDE	091°09'40.92390 (W)
NORTHING (M)	331062.384
EASTING (M)	192562.461
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.9999435545

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING

EXAMPLE: CONTROL POINT #1
 N 1095316.0650 X 0.9999435545 = N 1095254.2393
 E 613135.4330 X 0.9999435545 = E 613100.8243

LINEAR UNIT CONVERSION
 1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING							
SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	
PROJECT CONTROL POINTS							
-	118+33.91	RT	472.49	1095316.0650	613135.4330	900.52	CONTROL PT 1: EXIST I-70 STATIONING
5	31+74.96	LT	75.46	1094547.0630	613350.9340	891.99	CONTROL PT 2: EXIST RT B STATIONING
-	131+99.72	RT	228.26	1094446.4700	614216.2020	900.44	CONTROL PT 3: EXIST I-70 STATIONING
5	25+21.82	LT	47.12	1095011.1880	613775.1510	909.22	CONTROL PT 4: EXIST RT B STATIONING
4	20+93.02	RT	61.70	1095374.6300	614027.3760	908.29	CONTROL PT 5: EXIST RT A STATIONING
-	7+16.24	LT	25.39	1096547.9300	614556.1680	887.20	CONTROL PT 6: RT A STATIONING
-	114+18.30	LT	127.32	1096023.3840	613314.9450	890.29	CONTROL PT 7: EXIST I-70 STATIONING

ALIGNMENT: EX_CL-RTE-A (EXISTING ROUTE A)							
	18+00.00			1096564.2256	614530.8184		BEGINNING OF ALIGNMENT
	15+00.00 BK=			1096264.2264	614530.1176		HPI STATION EQUATION
	10+00.00 AH						
	11+01.60			1096162.6267	614529.8802		PC
	15+35.42			1095728.8079	614528.8669		HPI
	19+16.00			1095444.1992	614201.4562		PT
	23+31.70			1095171.4784	613887.7212		END OF ALIGNMENT

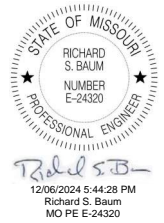
ALIGNMENT: EX_CL-RTE-B (EXISTING ROUTE B)							
	23+31.70			1095171.4784	613887.7212		BEGINNING OF ALIGNMENT
	28+72.90			1094816.4221	613479.2683		PC
	33+02.16			1094534.8090	613155.3037		HPI
	36+79.70 BK=			1094105.5773	613150.9297		PT STATION EQUATION
	20+16.30 AH						
	44+91.15			1091630.8667	613124.9196		END OF ALIGNMENT

ALIGNMENT: EX_CL-HWY-70 (EXISTING INTERSTATE 70)							
	64+93.01			1097906.3349	608867.6627		PC - BEGINNING OF ALIGNMENT
	91+20.25			1097920.3552	611494.8641		HPI
	114+19.68			1095938.7295	613219.8403		PT
	133+62.15BK=			1094473.5977	614495.2161		STATION EQUATION
	133+63.20AH						
	151+89.10			1093097.7639	615692.8593		PC
	175+08.14			1091348.5952	617215.4755		HPI
	197+39.10			1090492.6010	619370.7539		PT - END OF ALIGNMENT

ALIGNMENT: P_STATE-RTE-AB (STATE ROUTES A & B)							
	7+00.00			1096564.2256	614530.8184		BEGINNING OF ALIGNMENT
	10+00.00			1096264.2264	614530.1176		POT
	11+99.75			1096064.4769	614529.6510		PC
	16+08.90			1095655.3240	614528.6952		HPI
	19+67.78			1095387.0480	614219.7698		PT
	23+59.77			1095130.0266	613923.8043		POT
	29+51.23			1094742.2175	613477.2340		PC
	33+78.44			1094462.1035	613154.6769		HPI
	37+54.17			1094034.9188	613150.1871		PT
	39+50.00			1093839.0967	613148.1289		END OF ALIGNMENT

ALIGNMENT: P_W_VMP (WEST VETERANS MEMORIAL PARKWAY)							
	70+00.00			1094968.6272	613158.6326		BEGINNING OF ALIGNMENT
	70+43.21			1094925.4153	613158.1228		PC
	72+00.46			1094768.1806	613156.2679		HPI
	73+32.88			1094677.1960	613284.5176		PT
	74+35.85			1094617.6168	613368.4989		PC
	76+42.69			1094497.9372	613537.1968		HPI
	77+85.30			1094635.4076	613691.7415		PRC
	80+06.49			1094782.4140	613857.0070		HPI
	81+51.85			1094642.8475	614028.6019		PT
	83+00.00			1094549.3661	614143.5358		END OF ALIGNMENT

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DATE PREPARED
6-DEC-2024

ROUTE A STATE MO
DISTRICT NE SHEET NO. 16


COUNTY WARREN
JOB NO. J253438
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)



JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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PROJECT COORDINATE INFORMATION	
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VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	12B
ELEVATIONS DETERMINED BY	GNSS DERIVED
PROJECT PROJECTION FACTOR	1.0000564487

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EXAMPLE: CONTROL POINT #1
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 E 613135.4330 X 0.9999435545 = E 613100.8243

LINEAR UNIT CONVERSION	
1 METER	= 3.280833333 US SURVEY FEET (USFT)

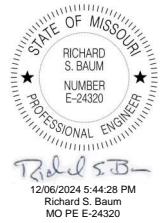
ALIGNMENT: P_NW_SERVICE_RD (NORTHWEST SERVICE ROAD)						
	10+00.00			1095874.9230	614287.0820	BEGINNING OF ALIGNMENT
	11+31.93			1095996.5408	614338.2279	PC
	12+11.96			1096070.3088	614369.2507	HPI
	12+73.09			1096070.0208	614449.2760	PT
	13+86.63			1096069.6123	614562.8180	PC
	15+29.18			1096069.0993	614705.3653	HPI
	15+95.69			1095928.7268	614680.5546	PCC
	18+50.36			1095677.9416	614636.2284	HPI
	20+93.33			1095482.9571	614472.4020	PT
	21+00.00			1095477.8518	614468.1126	END OF ALIGNMENT

ALIGNMENT: P_RAMP_1 (WESTBOUND ON-RAMP)						
	1+00.00			1096059.3235	613187.0021	BEGINNING OF ALIGNMENT
	1+54.78			1096018.6724	613223.7176	PC
	4+72.33			1095783.0117	613436.5632	HPI
	7+87.52			1095597.1338	613694.0289	PT
	13+04.53			1095294.5072	614113.2071	END OF ALIGNMENT

ALIGNMENT: P_RAMP_2 (EASTBOUND OFF-RAMP)						
	2+00.00			1095986.9596	613103.0645	BEGINNING OF ALIGNMENT
	2+65.02			1095937.5047	613145.2751	PC
	5+63.30			1095710.6275	613338.9191	HPI
	8+59.17			1095446.9519	613478.3695	PT
	14+04.72			1094964.6950	613733.4214	END OF ALIGNMENT

ALIGNMENT: P_RAMP_3 (WESTBOUND OFF-RAMP)						
	3+00.00			1095278.7270	614095.0358	BEGINNING OF ALIGNMENT
	8+74.62			1094778.2297	614377.3273	PC
	10+69.74			1094608.2749	614473.1855	HPI
	12+64.08			1094455.2510	614594.2522	PT
	14+07.42			1094347.5442	614679.4656	END OF ALIGNMENT

ALIGNMENT: P_RAMP_4 (EASTBOUND ON-RAMP)						
	4+00.00			1094980.6944	613751.8451	BEGINNING OF ALIGNMENT
	9+58.77			1094640.9137	614195.4404	PC
	12+59.34			1094458.1446	614434.0517	HPI
	15+57.91			1094231.6711	614631.6615	PT
	18+01.60			1094048.0489	614791.8814	END OF ALIGNMENT



DATE PREPARED
6-DEC-2024
ROUTE A STATE MO
DISTRICT NE SHEET NO. 17

COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION



Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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Richard S. Baum
 12/06/2024 5:44:28 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 19

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

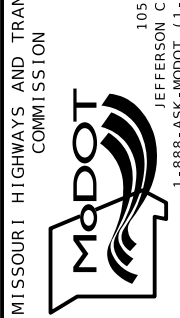
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

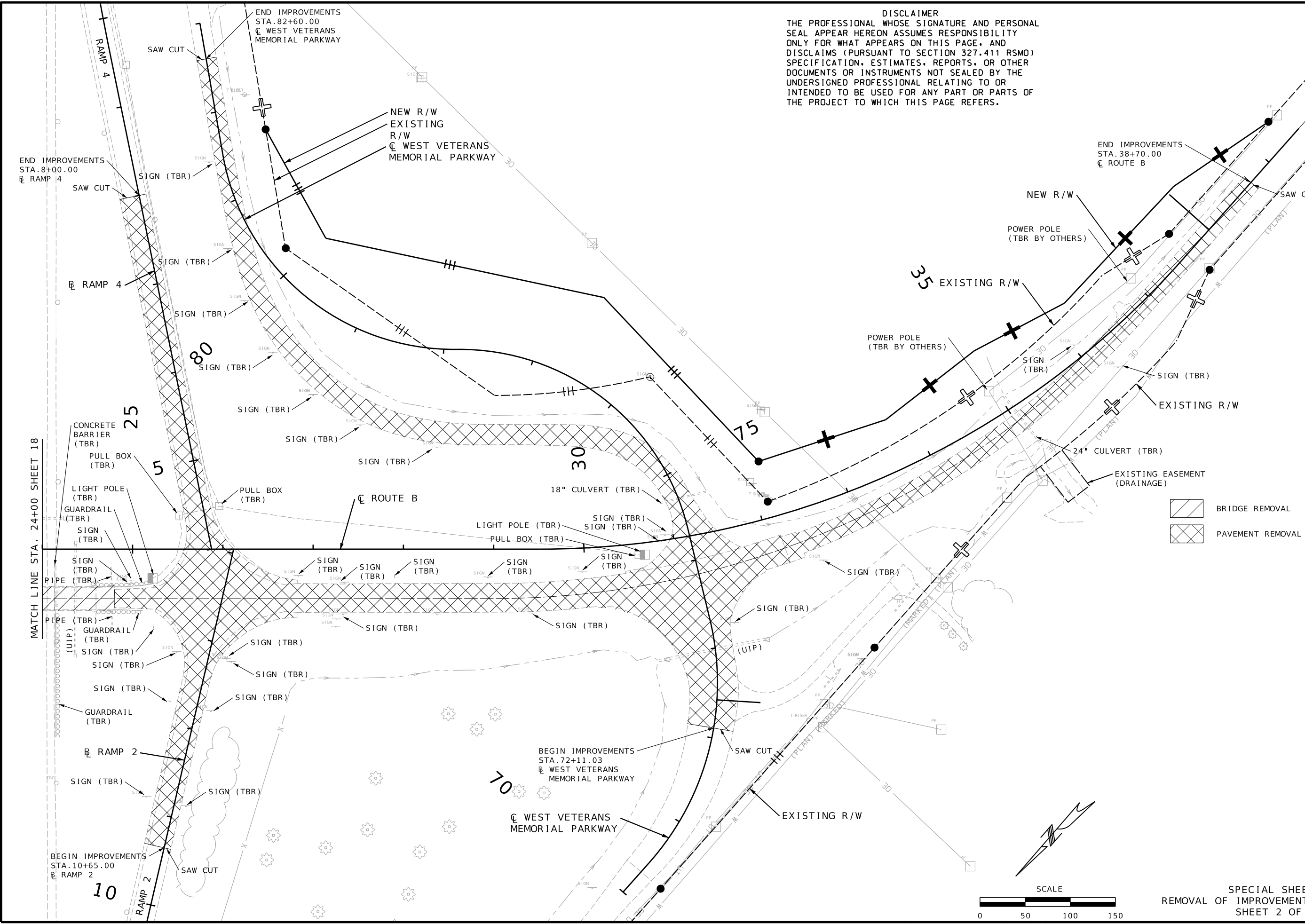
1-888-ASK-MODOT (1-888-275-6636)



CERTIFICATE OF AUTHORITY #00704

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 355-4000

SPECIAL SHEET
 REMOVAL OF IMPROVEMENTS
 SHEET 2 OF 2



MATCH LINE STA. 24+00 SHEET 18

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

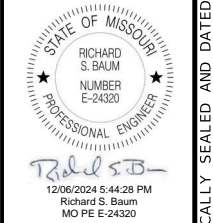
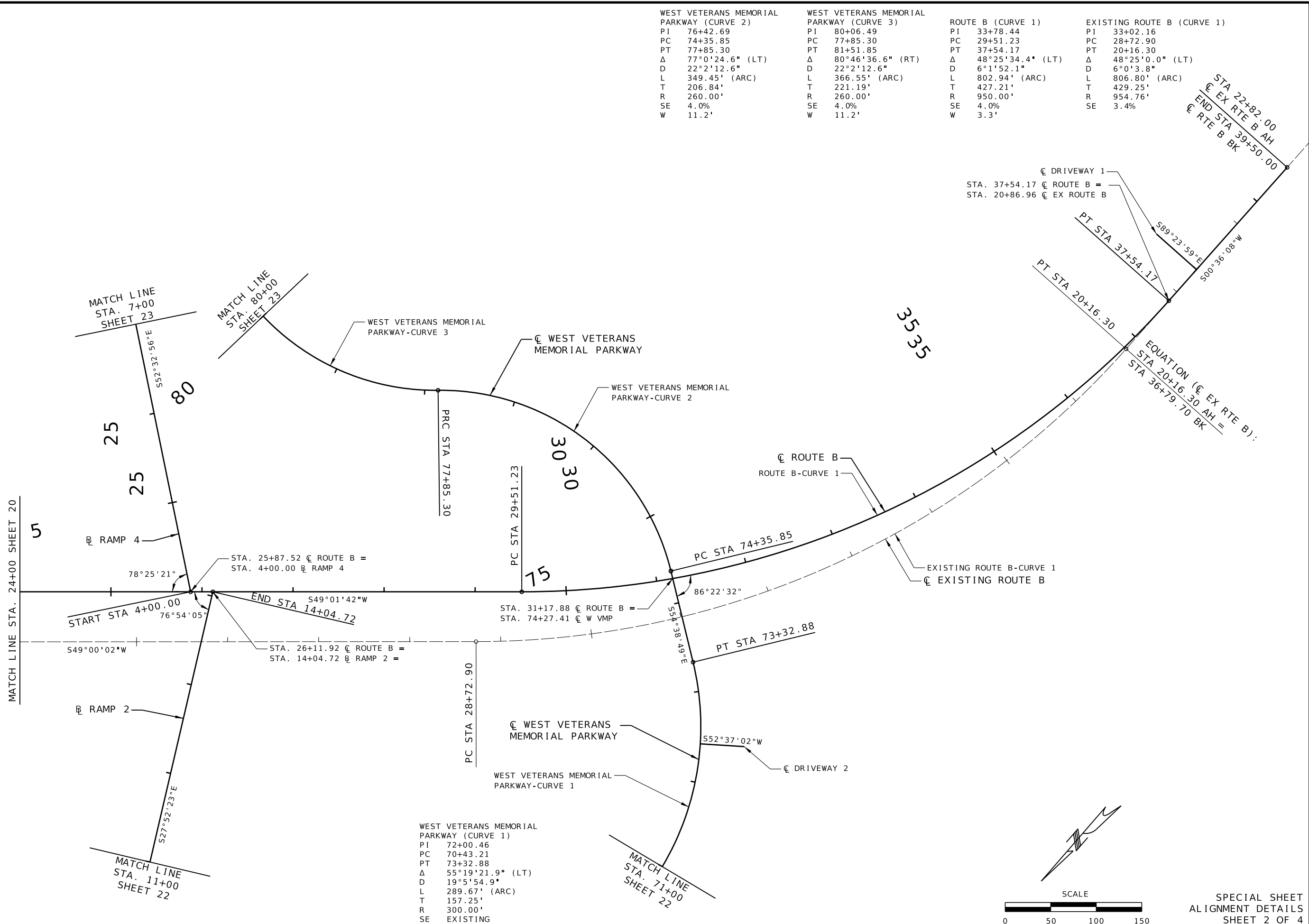
WEST VETERANS MEMORIAL PARKWAY (CURVE 2)
 PI 76+42.69
 PC 74+35.85
 PT 77+85.30
 Δ 77°0'24.6" (LT)
 D 22°2'12.6"
 L 349.45' (ARC)
 T 206.84'
 R 260.00'
 SE 4.0%
 W 11.2'

WEST VETERANS MEMORIAL PARKWAY (CURVE 3)
 PI 80+06.49
 PC 77+85.30
 PT 81+51.85
 Δ 80°46'36.6" (RT)
 D 22°2'12.6"
 L 366.55' (ARC)
 T 221.19'
 R 260.00'
 SE 4.0%
 W 11.2'

ROUTE B (CURVE 1)
 PI 33+78.44
 PC 29+51.23
 PT 37+54.17
 Δ 48°25'34.4" (LT)
 D 6°1'52.1"
 L 802.94' (ARC)
 T 427.21'
 R 950.00'
 SE 4.0%
 W 3.3'

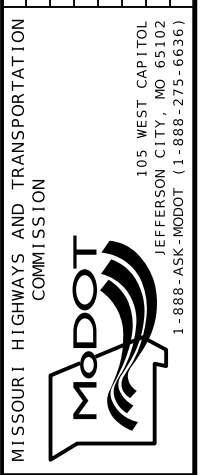
EXISTING ROUTE B (CURVE 1)
 PI 33+02.16
 PC 28+72.90
 PT 20+16.30
 Δ 48°25'0.0" (LT)
 D 6°0'3.8"
 L 806.80' (ARC)
 T 429.25'
 R 954.76'
 SE 3.4%

WEST VETERANS MEMORIAL PARKWAY (CURVE 1)
 PI 72+00.46
 PC 70+43.21
 PT 73+32.88
 Δ 55°19'21.9" (LT)
 D 19°5'54.9"
 L 289.67' (ARC)
 T 157.25'
 R 300.00'
 SE EXISTING

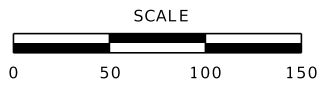


DATE PREPARED
 6-DEC-2024
 ROUTE STATE
 A MO
 DISTRICT SHEET NO.
 NE 21
 COUNTY
 WARREN
 JOB NO.
 J2S3438
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION



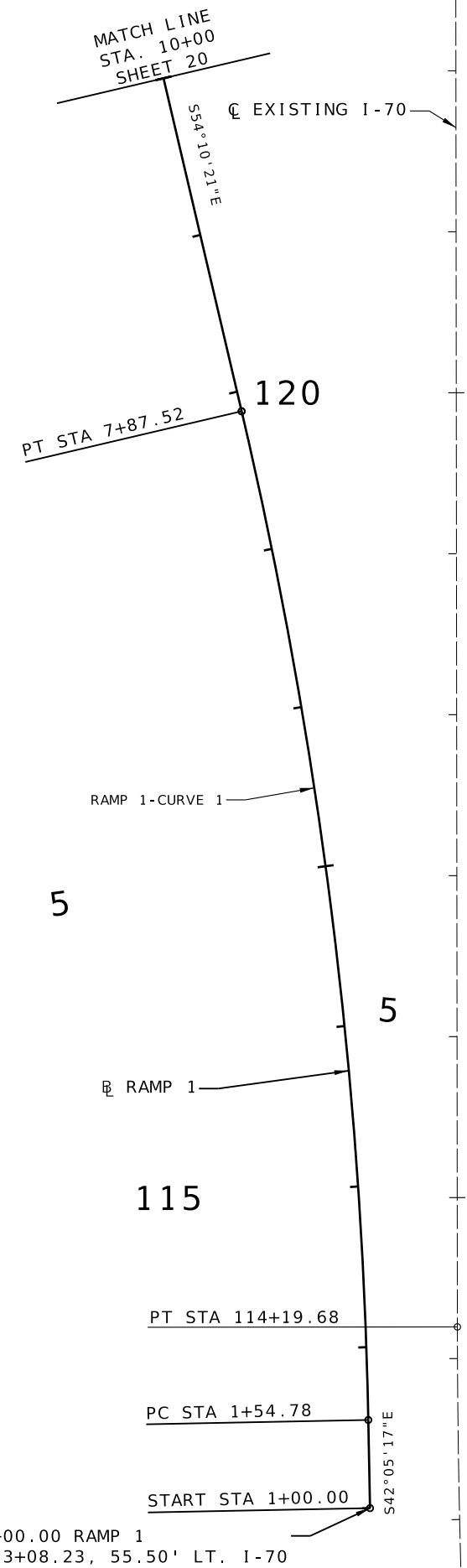
JACOBS
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 PHONE: (314) 335-4000
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SPECIAL SHEET
 ALIGNMENT DETAILS
 SHEET 2 OF 4

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

10

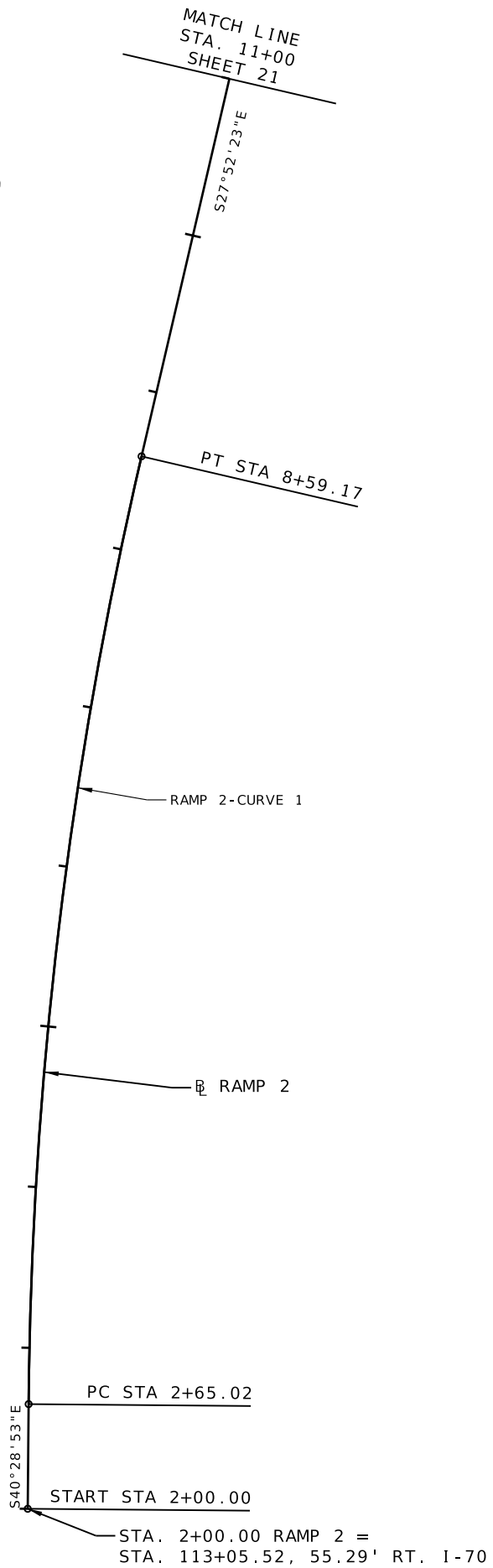


RAMP 1 (CURVE 1)
 PI 4+72.33
 PC 1+54.78
 PT 7+87.52
 Δ 12°5'4.5" (LT)
 D 1°54'35.5"
 L 632.75' (ARC)
 T 317.55'
 R 3,000.00'
 SE EXISTING

STA. 1+00.00 RAMP 1
 STA. 113+08.23, 55.50' LT. I-70

10

S41°02'21"E



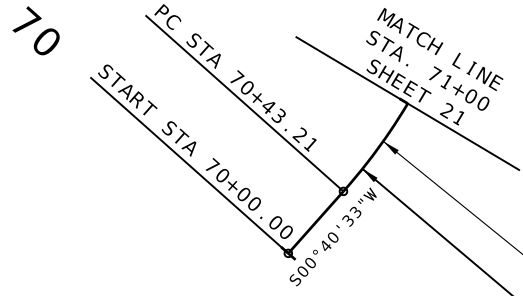
RAMP 2 (CURVE 1)
 PI 5+63.30
 PC 2+65.02
 PT 8+59.17
 Δ 12°36'29.8" (RT)
 D 2°7'19.4"
 L 594.15' (ARC)
 T 298.28'
 R 2,700.00'
 SE EXISTING

EXISTING I-70 (CURVE 1)
 PI 91+20.25
 PC 64+93.01
 PT 114+19.68
 Δ 49°16'0.0" (RT)
 D 1°0'0.0"
 L 4,926.67' (ARC)
 T 2,627.24'
 R 5,729.58'
 SE EXISTING

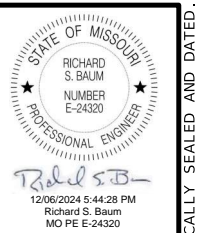
WEST VETERANS MEMORIAL PARKWAY (CURVE 1)
 PI 72+00.46
 PC 70+43.21
 PT 73+32.88
 Δ 55°19'21.9" (LT)
 D 19°5'54.9"
 L 289.67' (ARC)
 T 157.25'
 R 300.00'
 SE EXISTING



SPECIAL SHEET
 ALIGNMENT DETAILS
 SHEET 3 OF 4



WEST VETERANS MEMORIAL PARKWAY-CURVE 1
 WEST VETERANS MEMORIAL PARKWAY



DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 22

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

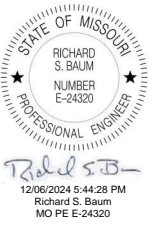
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 JEFFERSON CITY, MO 65102
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JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
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 PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

RAMP 3 (CURVE 1)
 PI 10+69.74
 PC 8+74.62
 PT 12+64.08
 Δ 8°55'32.7" (LT)
 D 2°17'30.6"
 L 389.46' (ARC)
 T 195.12'
 R 2,500.00'
 SE EXISTING



DATE PREPARED
 6-DEC-2024
 ROUTE A STATE MO
 DISTRICT NE SHEET NO. 23
 COUNTY WARREN
 JOB NO. J2S3438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

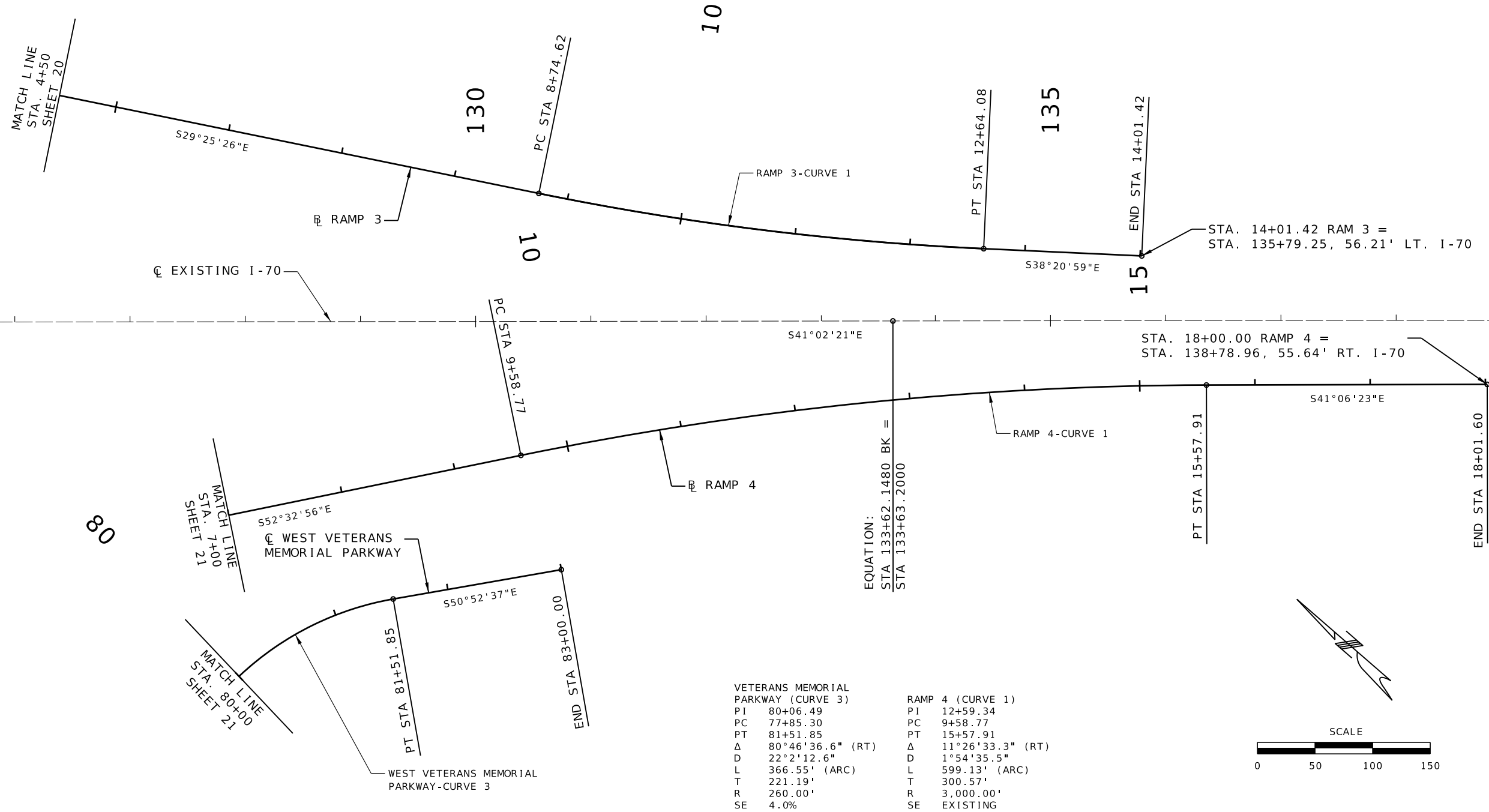
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

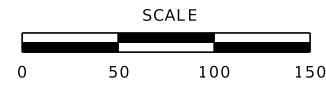
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VETERANS MEMORIAL PARKWAY (CURVE 3)
 PI 80+06.49
 PC 77+85.30
 PT 81+51.85
 Δ 80°46'36.6" (RT)
 D 22°2'12.6"
 L 366.55' (ARC)
 T 221.19'
 R 260.00'
 SE 4.0%

RAMP 4 (CURVE 1)
 PI 12+59.34
 PC 9+58.77
 PT 15+57.91
 Δ 11°26'33.3" (RT)
 D 1°54'35.5"
 L 599.13' (ARC)
 T 300.57'
 R 3,000.00'
 SE EXISTING



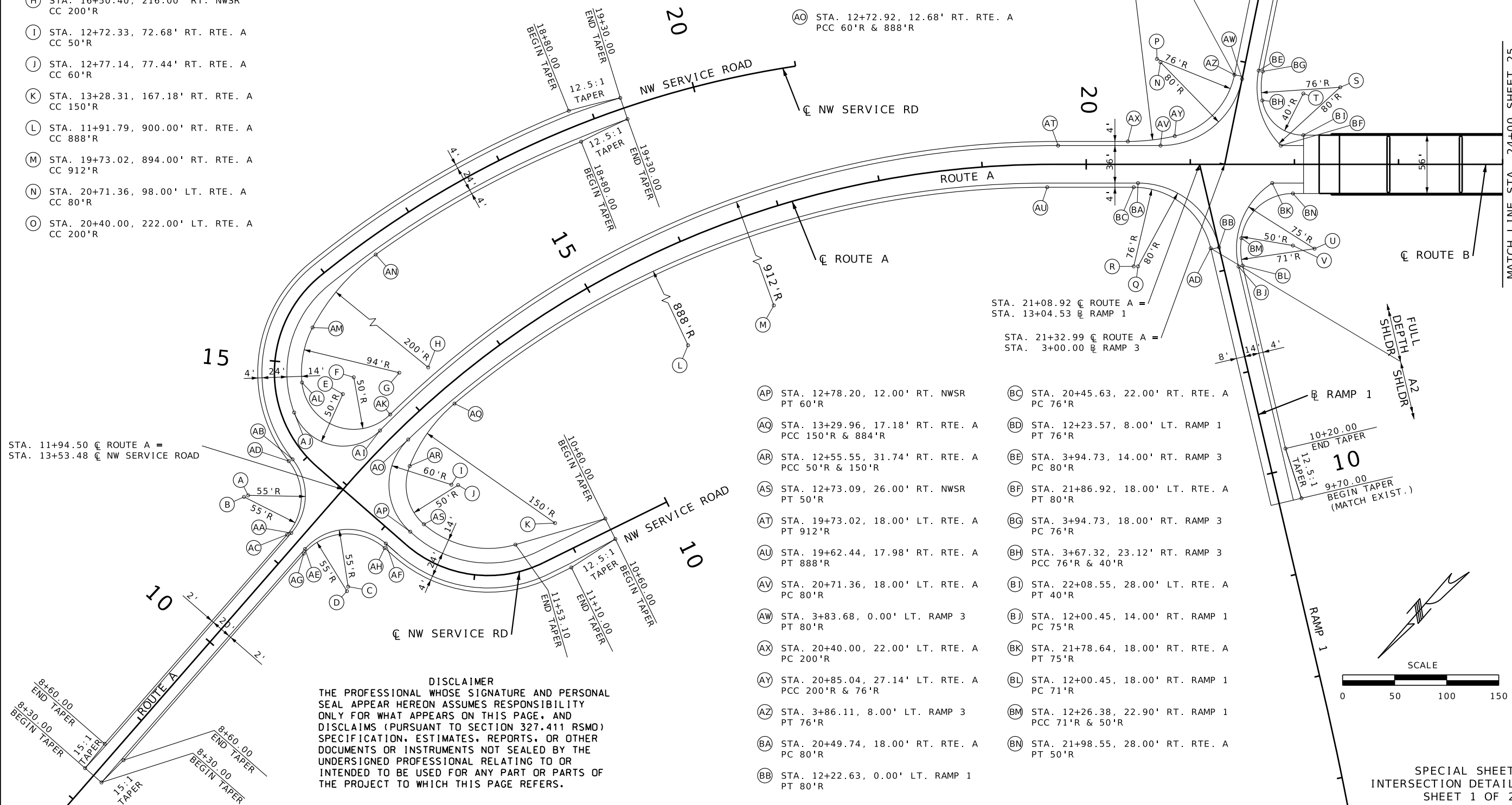
SPECIAL SHEET
 ALIGNMENT DETAILS
 SHEET 4 OF 4

- (A) STA. 11+30.29, 65.00' LT. RTE. A CC 55'R
- (B) STA. 11+26.59, 67.00' LT. RTE. A CC 55'R
- (C) STA. 11+27.41, 65.00' RT. RTE. A CC 55'R
- (D) STA. 11+23.41, 67.00' RT. RTE. A CC 55'R
- (E) STA. 12+59.32, 62.49' LT. RTE. A CC 50'R
- (F) STA. 12+76.84, 66.65' LT. RTE. A CC 50'R
- (G) STA. 15+15.65, 120.00' RT. NWSR CC 94'R
- (H) STA. 16+50.40, 216.00' RT. NWSR CC 200'R
- (I) STA. 12+72.33, 72.68' RT. RTE. A CC 50'R
- (J) STA. 12+77.14, 77.44' RT. RTE. A CC 60'R
- (K) STA. 13+28.31, 167.18' RT. RTE. A CC 150'R
- (L) STA. 11+91.79, 900.00' RT. RTE. A CC 888'R
- (M) STA. 19+73.02, 894.00' RT. RTE. A CC 912'R
- (N) STA. 20+71.36, 98.00' LT. RTE. A CC 80'R
- (O) STA. 20+40.00, 222.00' LT. RTE. A CC 200'R

- (P) STA. 3+86.11, 84.00' LT. RAMP 3 CC 76'R
- (Q) STA. 20+49.74, 98.00' RT. RTE. A CC 80'R
- (R) STA. 20+45.63, 98.00' RT. RTE. A CC 76'R
- (S) STA. 22+44.05, 74.00' LT. RTE. A CC 76'R & 80'R
- (T) STA. 22+08.55, 68.00' LT. RTE. A CC 40'R
- (U) STA. 22+19.34, 81.00' RT. RTE. A CC 71'R & 75'R
- (V) STA. 21+98.55, 78.00' RT. RTE. A CC 50'R

- (AA) STA. 11+30.29, 10.00' LT. RTE. A PC 55'R
- (AB) STA. 14+07.12, 12.00' LT. NWSR PT 55'R
- (AC) STA. 11+26.59, 12.00' LT. RTE. A PC 55'R
- (AD) STA. 14+07.96, 16.00' LT. NWSR PT 55'R
- (AE) STA. 11+27.41, 10.00' RT. RTE. A PC 55'R
- (AF) STA. 12+88.39, 12.00' LT. NWSR PT 55'R
- (AG) STA. 11+23.41, 12.00' RT. RTE. A PC 55'R

- (AH) STA. 12+86.39, 16.00' LT. NWSR PT 55'R
- (AI) STA. 12+59.73, 12.50' LT. RTE. A PRC 50'R & 912'R
- (AJ) STA. 14+45.49, 12.00' RT. NWSR PT 50'R
- (AK) STA. 12+77.24, 16.65' LT. RTE. A PRC 50'R & 916'R
- (AL) STA. 14+76.89, 26.00' RT. NWSR PCC 50'R & 94'R
- (AM) STA. 15+46.50, 26.00' RT. NWSR PCC 94'R & 200'R
- (AN) STA. 16+50.40, 16.00' RT. NWSR PT 200'R
- (AO) STA. 12+72.92, 12.68' RT. RTE. A PCC 60'R & 888'R

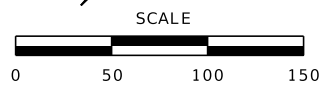


STA. 11+94.50 \hat{C} ROUTE A =
 STA. 13+53.48 \hat{C} NW SERVICE ROAD

STA. 21+08.92 \hat{C} ROUTE A =
 STA. 13+04.53 \hat{C} RAMP 1

STA. 21+32.99 \hat{C} ROUTE A =
 STA. 3+00.00 \hat{C} RAMP 3

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SPECIAL SHEET
 INTERSECTION DETAIL
 SHEET 1 OF 2

STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER

Richard S. Baum
 12/06/2024 5:44:28 PM
 MO PE E-24320

DATE PREPARED
 6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	24

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

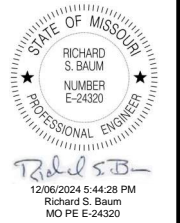
MoDOT

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

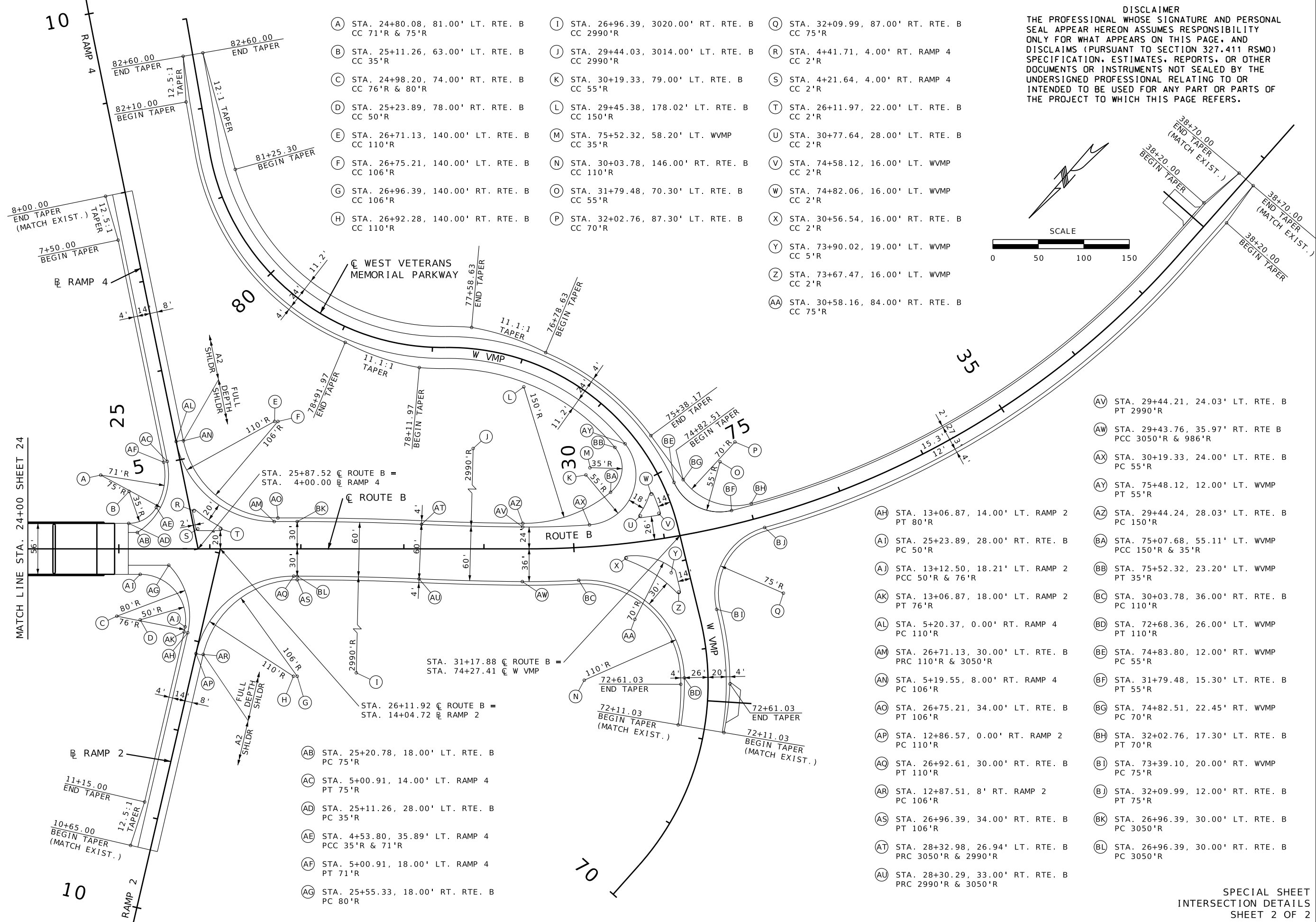
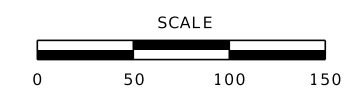
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED	
6-DEC-2024	
ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	25
COUNTY	
WARREN	
JOB NO.	
J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



- (AV) STA. 29+44.21, 24.03' LT. RTE. B PT 2990'R
- (AW) STA. 29+43.76, 35.97' RT. RTE B PCC 3050'R & 986'R
- (AX) STA. 30+19.33, 24.00' LT. RTE. B PC 55'R
- (AY) STA. 75+48.12, 12.00' LT. WVMP PT 55'R
- (AZ) STA. 29+44.24, 28.03' LT. RTE. B PC 150'R
- (BA) STA. 75+07.68, 55.11' LT. WVMP PCC 150'R & 35'R
- (BB) STA. 75+52.32, 23.20' LT. WVMP PT 35'R
- (BC) STA. 30+03.78, 36.00' RT. RTE. B PC 110'R
- (BD) STA. 72+68.36, 26.00' LT. WVMP PT 110'R
- (BE) STA. 74+83.80, 12.00' RT. WVMP PC 55'R
- (BF) STA. 31+79.48, 15.30' LT. RTE. B PT 55'R
- (BG) STA. 74+82.51, 22.45' RT. WVMP PC 70'R
- (BH) STA. 32+02.76, 17.30' LT. RTE. B PT 70'R
- (BI) STA. 73+39.10, 20.00' RT. WVMP PC 75'R
- (BJ) STA. 32+09.99, 12.00' RT. RTE. B PT 75'R
- (BK) STA. 26+96.39, 30.00' LT. RTE. B PC 3050'R
- (BL) STA. 26+96.39, 30.00' RT. RTE. B PC 3050'R
- (AH) STA. 13+06.87, 14.00' LT. RAMP 2 PT 80'R
- (AI) STA. 25+23.89, 28.00' RT. RTE. B PC 50'R
- (AJ) STA. 13+12.50, 18.21' LT. RAMP 2 PCC 50'R & 76'R
- (AK) STA. 13+06.87, 18.00' LT. RAMP 2 PT 76'R
- (AL) STA. 5+20.37, 0.00' RT. RAMP 4 PC 110'R
- (AM) STA. 26+71.13, 30.00' LT. RTE. B PRC 110'R & 3050'R
- (AN) STA. 5+19.55, 8.00' RT. RAMP 4 PC 106'R
- (AO) STA. 26+75.21, 34.00' LT. RTE. B PT 106'R
- (AP) STA. 12+86.57, 0.00' RT. RAMP 2 PC 110'R
- (AQ) STA. 26+92.61, 30.00' RT. RTE. B PT 110'R
- (AR) STA. 12+87.51, 8' RT. RAMP 2 PC 106'R
- (AS) STA. 26+96.39, 34.00' RT. RTE. B PT 106'R
- (AT) STA. 28+32.98, 26.94' LT. RTE. B PRC 3050'R & 2990'R
- (AU) STA. 28+30.29, 33.00' RT. RTE. B PRC 2990'R & 3050'R

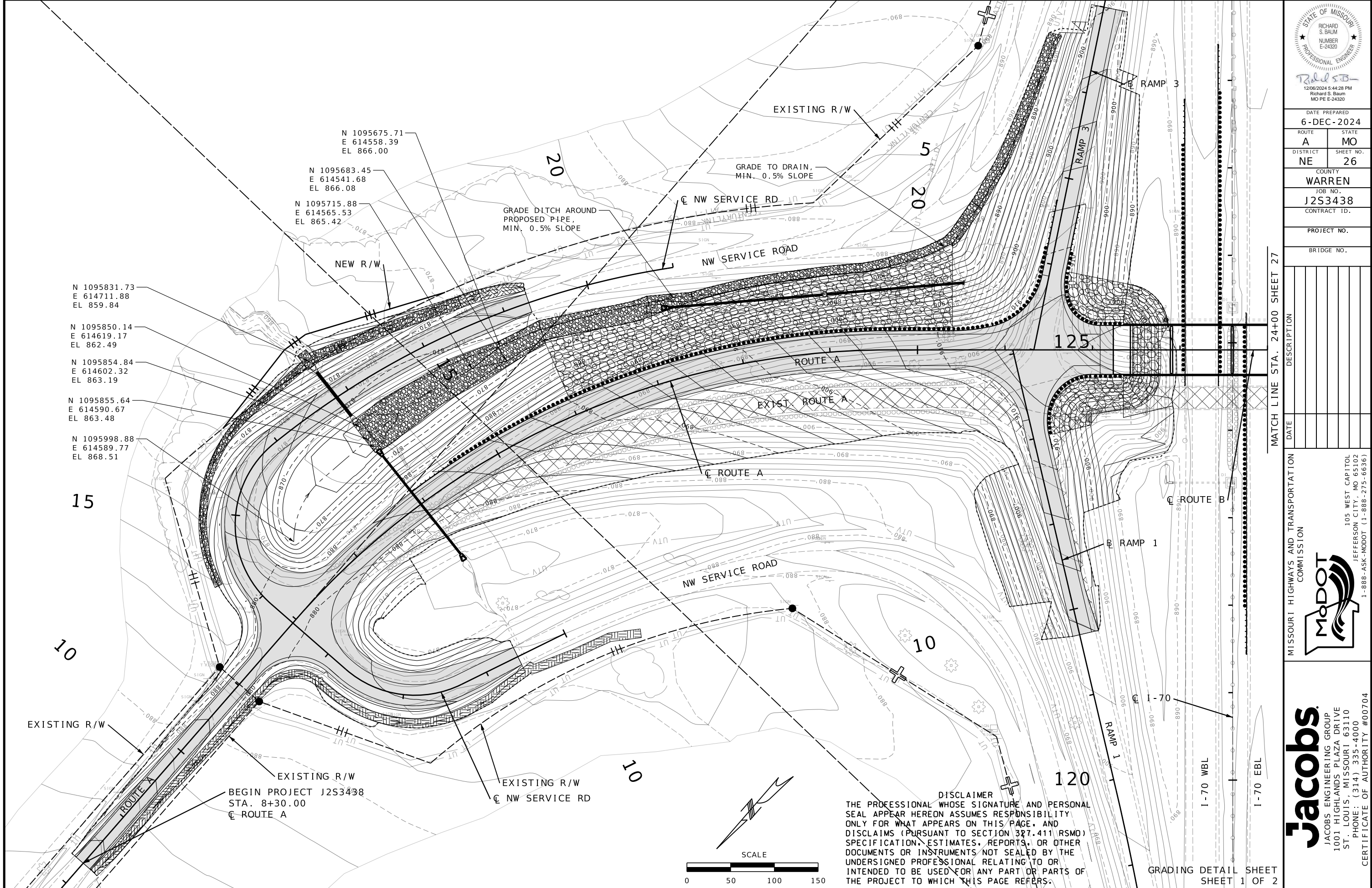
SPECIAL SHEET
INTERSECTION DETAILS
SHEET 2 OF 2

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



N 1095831.73
E 614711.88
EL 859.84

N 1095850.14
E 614619.17
EL 862.49

N 1095854.84
E 614602.32
EL 863.19

N 1095855.64
E 614590.67
EL 863.48

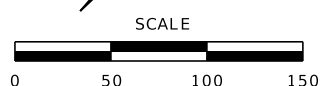
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EL 866.00

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E 614541.68
EL 866.08

N 1095715.88
E 614565.53
EL 865.42

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MATCH LINE STA. 24+00 SHEET 27

DATE	DESCRIPTION

STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER

Richard S. Baum

12/06/2024 5:44:28 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
 6-DEC-2024

ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 26

COUNTY
 WARREN

JOB NO.
 J253438

CONTRACT ID.
 PROJECT NO.

BRIDGE NO.

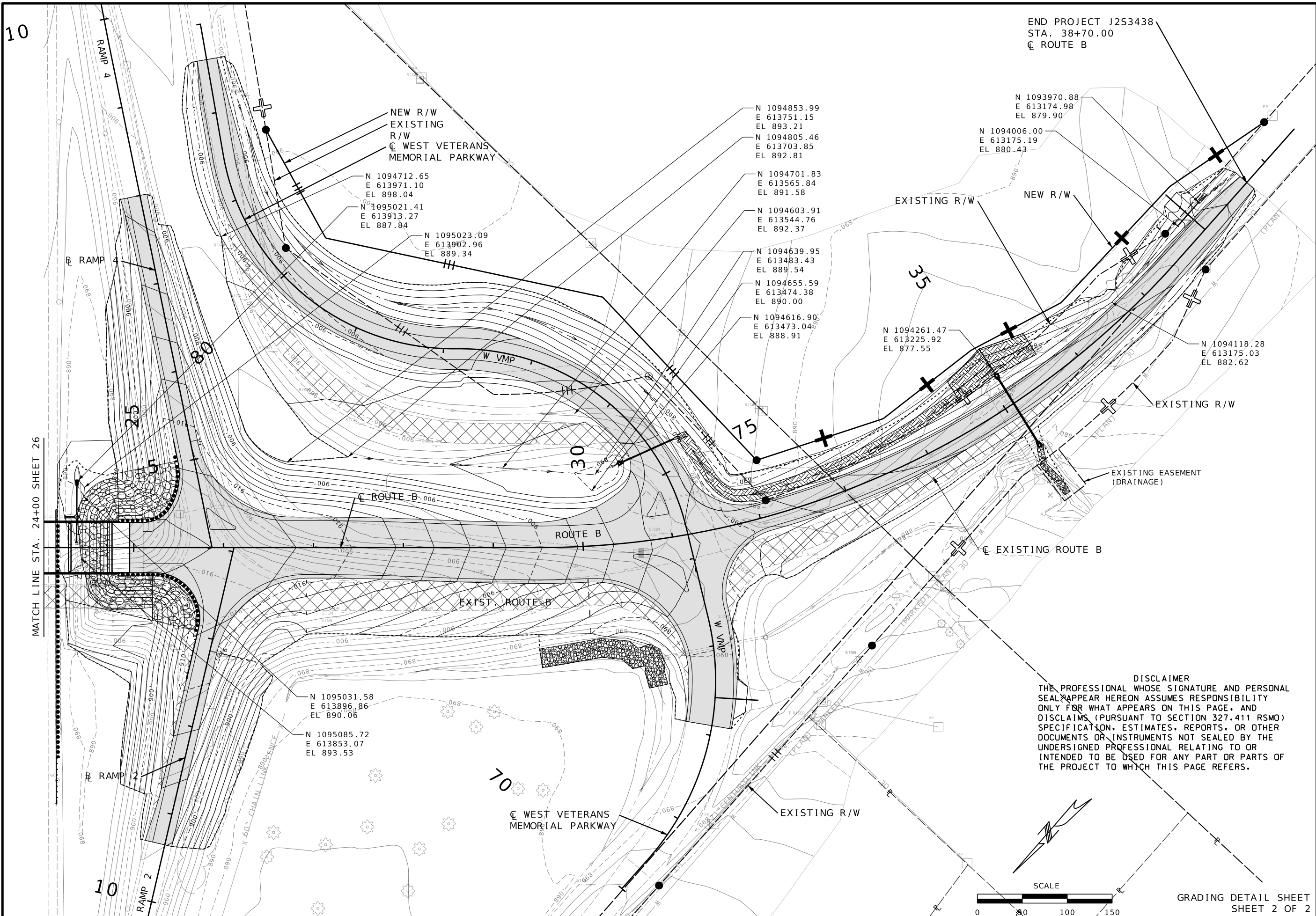
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

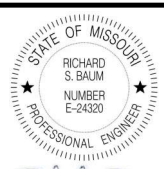
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 ST. LOUIS, MISSOURI 63110
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 CERTIFICATE OF AUTHORITY #00704

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GRADING DETAIL SHEET
 SHEET 1 OF 2



END PROJECT J2S3438
 STA. 38+70.00
 C ROUTE B



Richard S. Baum
 12/06/2024 5:44:28 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	27

COUNTY
WARREN
 JOB NO.
J2S3438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

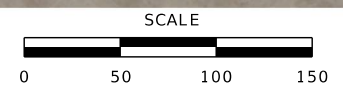
 105 WEST CAPITOL
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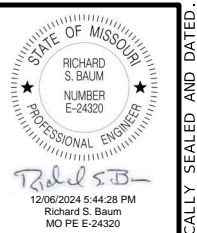
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GRADING DETAIL SHEET
 SHEET 2 OF 2



SPECIAL SHEET
DO NOT DISTURB AREA
SHEET 1 OF 1



DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 28
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

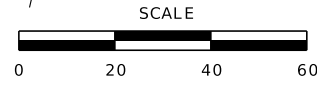
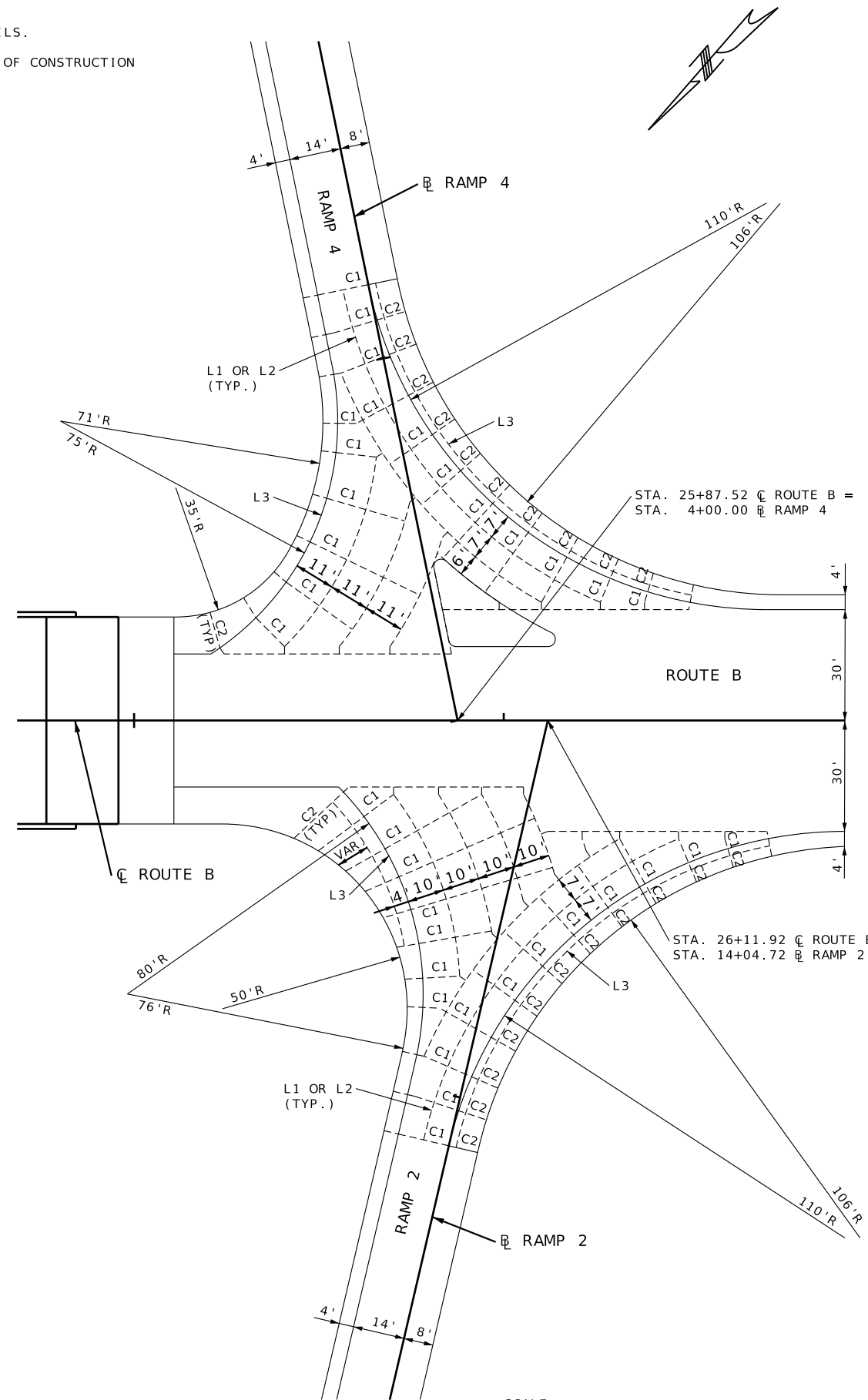
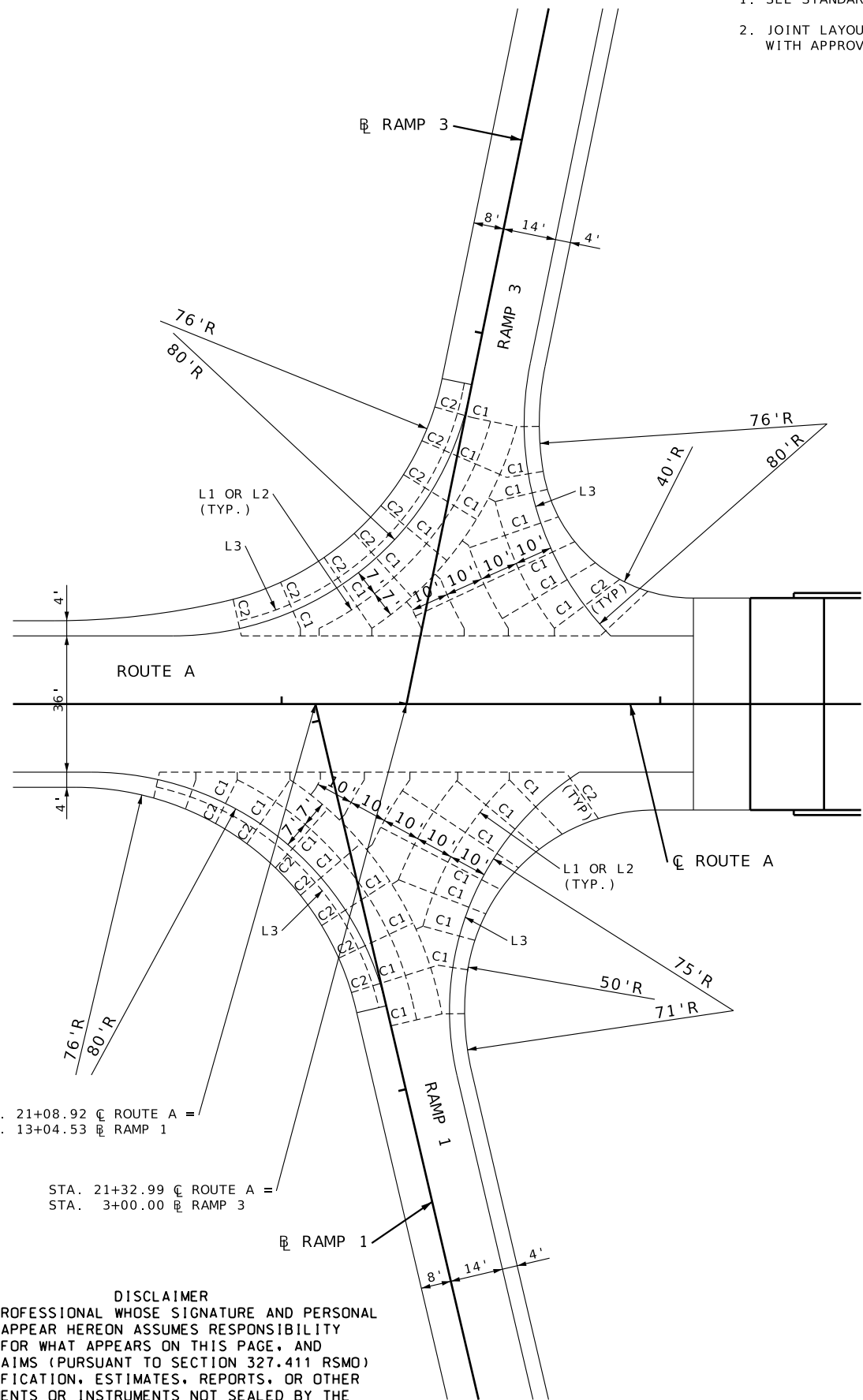
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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- NOTES:
- SEE STANDARD DRAWING 502.05 FOR JOINT LAYOUT DETAILS.
 - JOINT LAYOUT MAY BE ADJUSTED IN THE FIELD FOR EASE OF CONSTRUCTION WITH APPROVAL OF THE ENGINEER.



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STATE OF MISSOURI
 RICHARD S. BAUM
 PROFESSIONAL ENGINEER
 NUMBER E-24320
 12/06/2024 5:44:28 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 29
COUNTY WARREN	
JOB NO. J253438	
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)

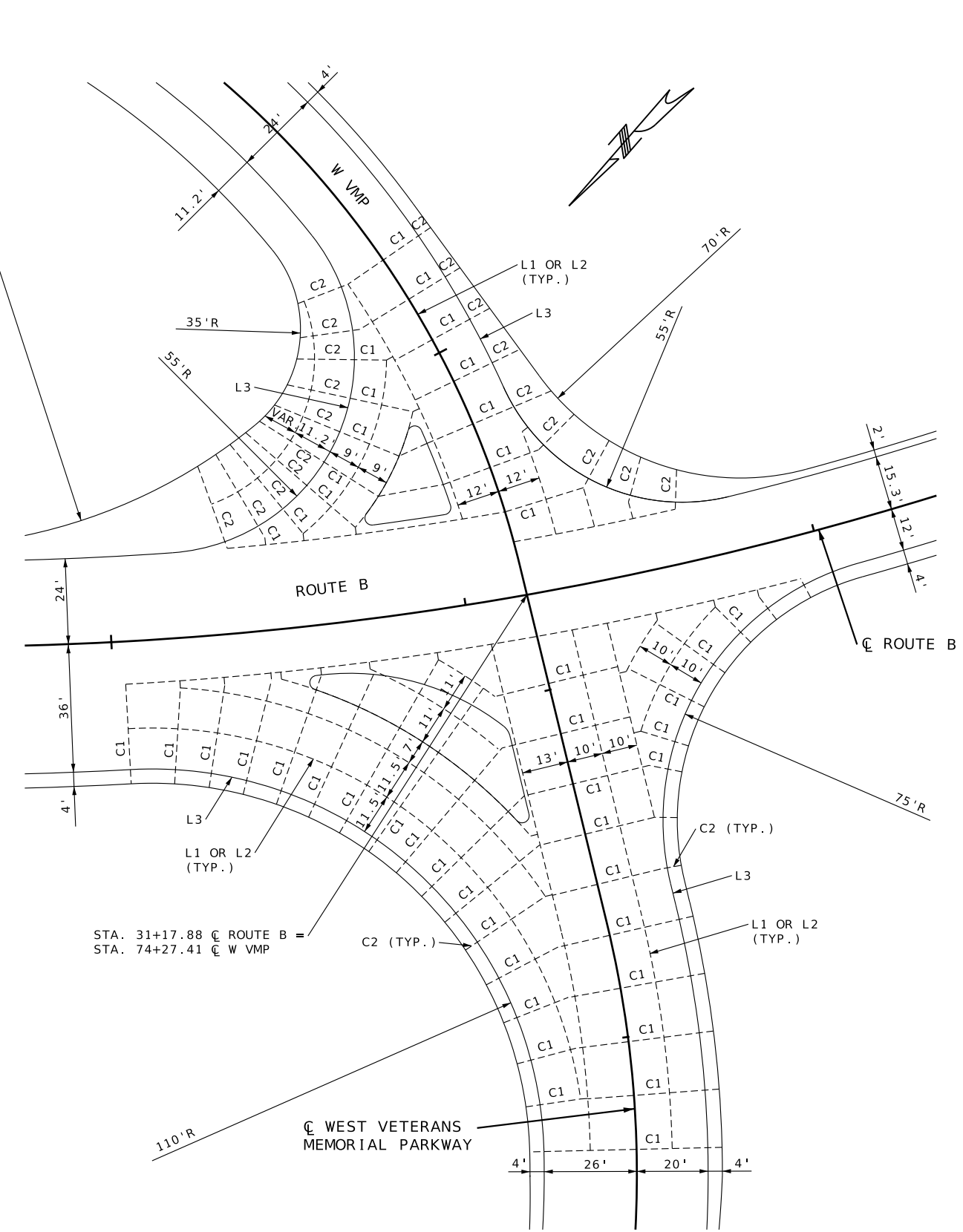
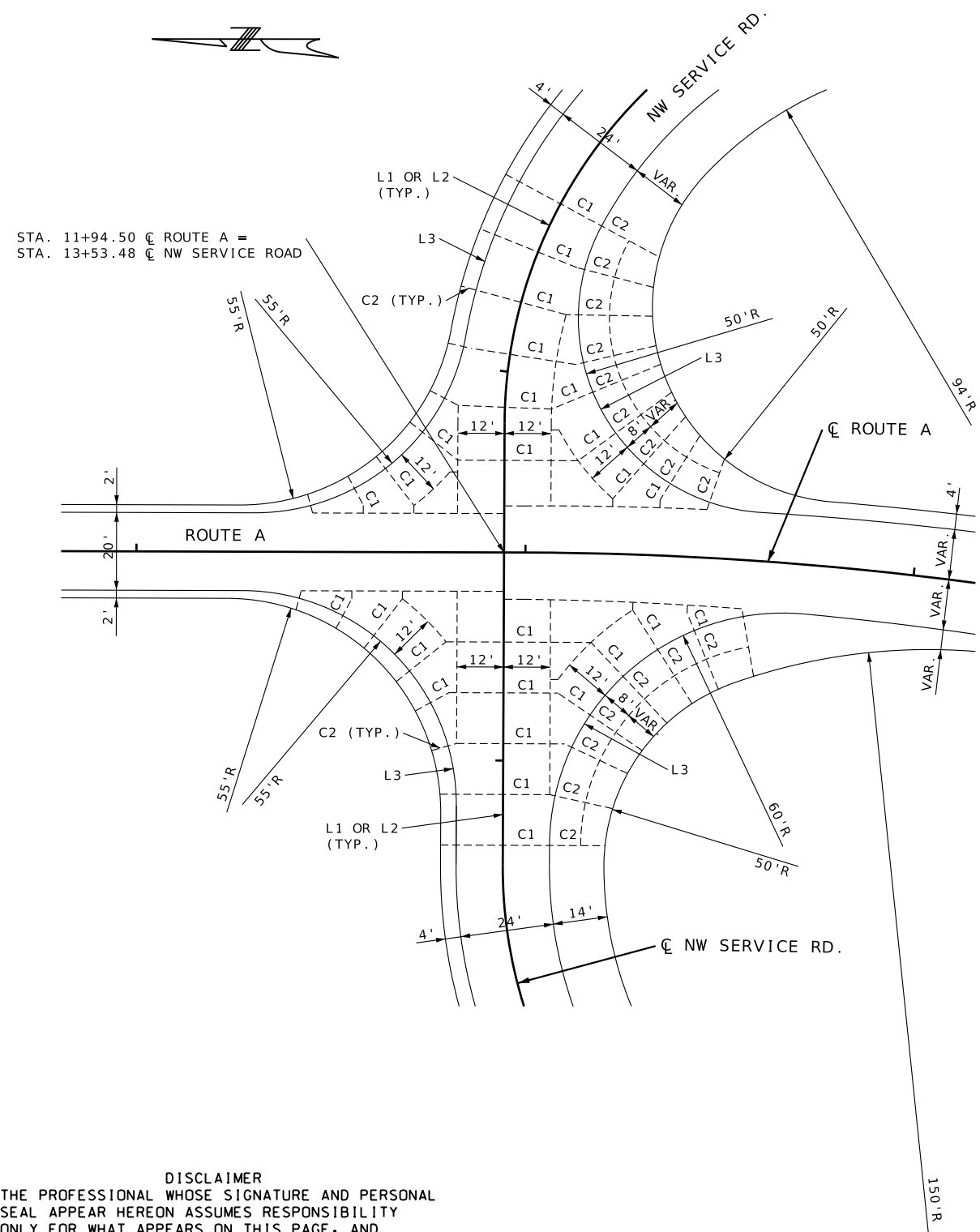
Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SPECIAL SHEET
 JOINT LAYOUT DETAILS
 SHEET 1 OF 2

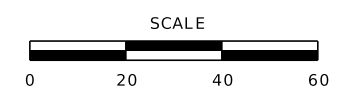
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NOTES:

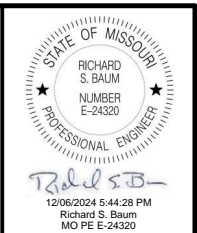
1. SEE STANDARD DRAWING 502.05 FOR JOINT LAYOUT DETAILS.
2. JOINT LAYOUT MAY BE ADJUSTED IN THE FIELD FOR EASE OF CONSTRUCTION WITH APPROVAL OF THE ENGINEER.



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SPECIAL SHEET
 JOINT LAYOUT DETAILS
 SHEET 2 OF 2



DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 30
COUNTY WARREN	
JOB NO. J253438	
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)

Jacobs
 ENGINEERING GROUP
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 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
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TRAFFIC CONTROL LEGEND

Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA-1000' SB-1500' SC-2640'**

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)
	10'	11'	12'	
≤40	160'	168'	176'	BARRIER HEIGHT TRANSITION
>40	160'	168'	176'	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT.	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35'	40'
40-45	450'	495'	540'	150'	400'	40'	80'
50-55	550'	605'	660'	185'	560'	50'	80'
60-70	700'	770'	840'	235'	840'	60'	120'

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.
 THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.
 THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.
 (THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE.)

LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

GENERAL NOTES:

- SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
- EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE. ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◊ FLASHING ARROW PANEL
- ◊ FLAGGER
- CHANNELIZER
- ◻ PROTECTIVE VEHICLE WITH WORK SIGN, FLASHING ARROW PANEL AND REAR-MOUNTED IMPACT ATTENUATOR UNIT.
- ◻ CHANGEABLE MESSAGE BOARD
- ◻ BARRICADE
- ▲ DIRECTIONAL INDICATOR BARRICADES

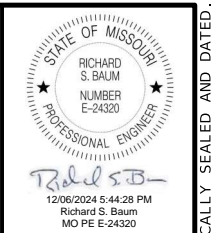
EPG TABLE 616.29 RECOMMENDED MAXIMUM SPEED REDUCTIONS	
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10 FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH
SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.	

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TDSY = TEMPORARY DOUBLE SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TIY = TEMPORARY INTERMITTENT YELLOW
- TDW = TEMPORARY DOTTED WHITE
- SW = PERMANENT SOLID WHITE
- SY = PERMANENT SOLID YELLOW
- DSY = PERMANENT DOUBLE SOLID YELLOW
- IW = PERMANENT INTERMITTENT WHITE
- IY = PERMANENT INTERMITTENT YELLOW
- DW = PERMANENT DOTTED WHITE

TAPER LENGTH (L)

- L=W X P FOR 40 MPH OR MORE
- $L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS
- L=TAPER LENGTH IN FEET
- W=LATERAL SHIFT IN FEET
- P=POSTED SPEED PRIOR TO ROAD WORK IN MPH



DATE PREPARED
6-DEC-2024

ROUTE
A STATE
MO

DISTRICT
NE SHEET NO.
31

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

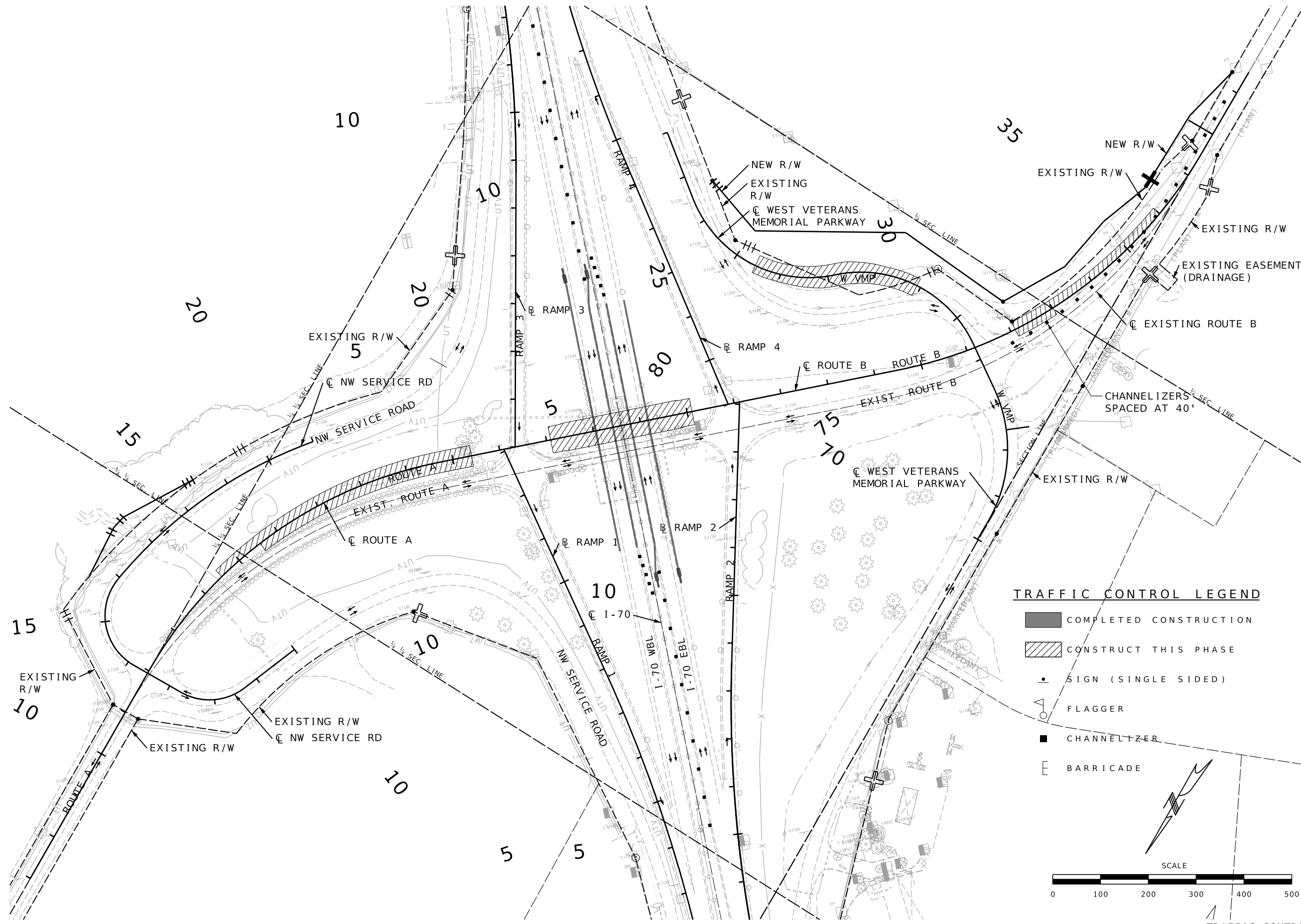
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

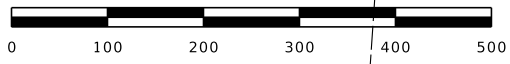
TEMPORARY TRAFFIC CONTROL
DEVICE SPACING

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

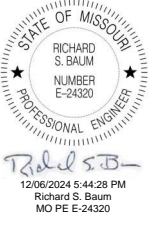


TRAFFIC CONTROL LEGEND

- COMPLETED CONSTRUCTION
- CONSTRUCT THIS PHASE
- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- BARRICADE



TRAFFIC CONTROL PLAN
PHASE 1



DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 33

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

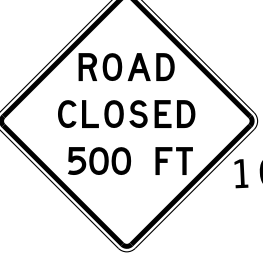
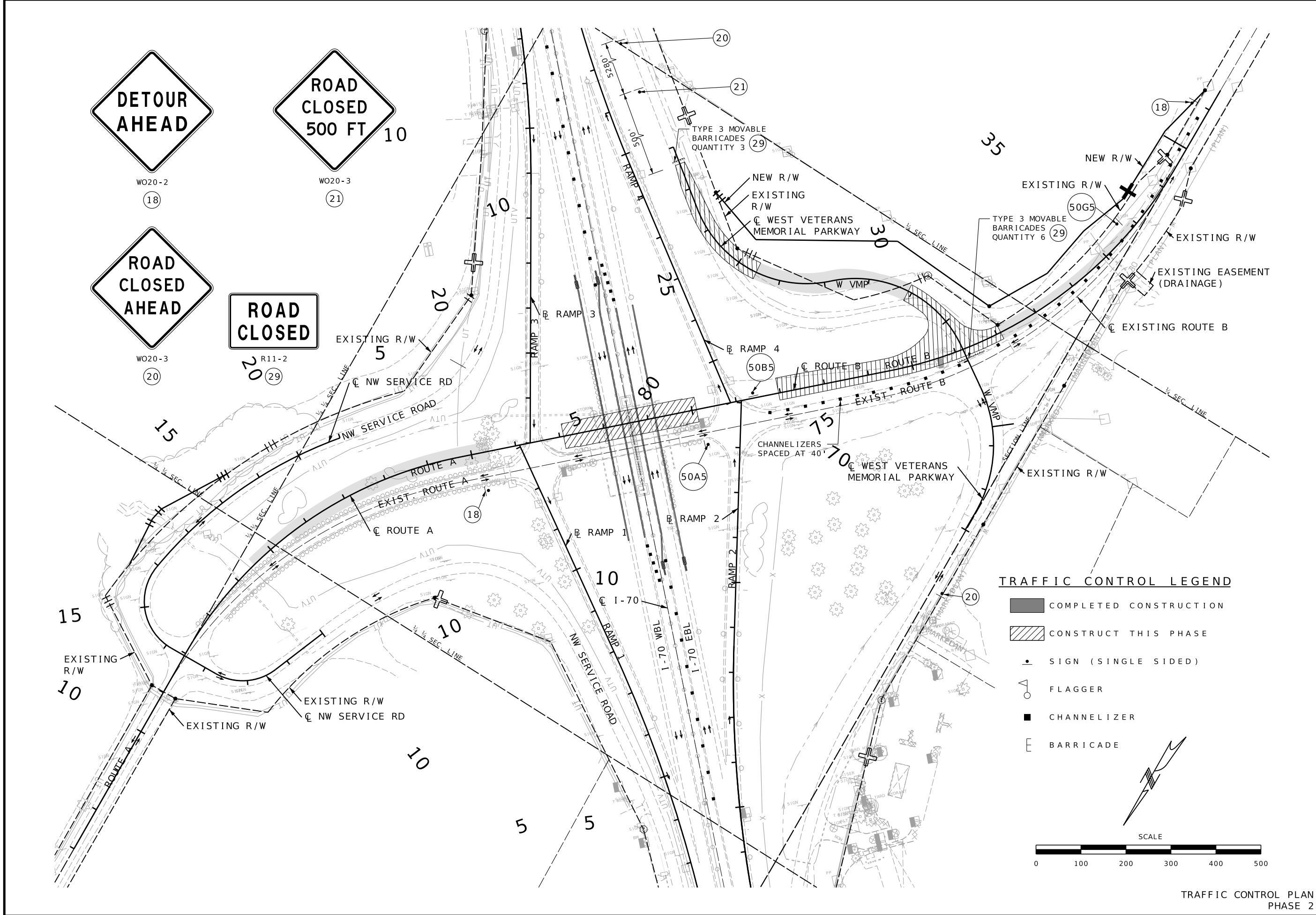
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

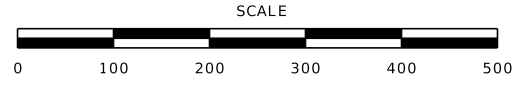
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



TRAFFIC CONTROL LEGEND

- COMPLETED CONSTRUCTION
- ▨ CONSTRUCT THIS PHASE
- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- E BARRICADE



Richard S. Baum
12/06/2024 5:44:28 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	34

COUNTY
WARREN

JOB NO.
J2S3438

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)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. 21:12 6-DEC-2024



Richard S. Baum
Professional Engineer
12/06/2024 5:44:28 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO
DISTRICT SHEET NO.
NE 35

COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

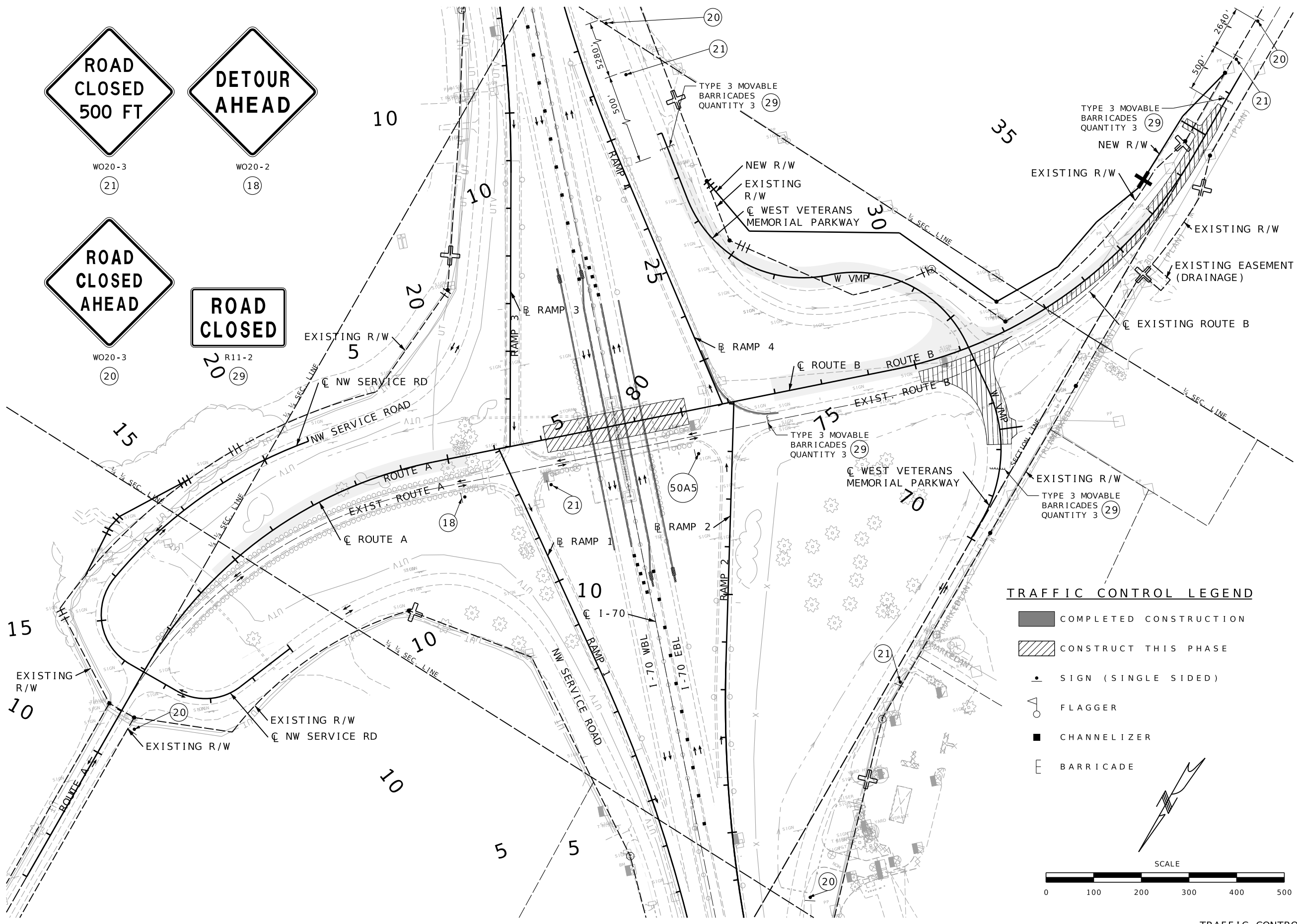
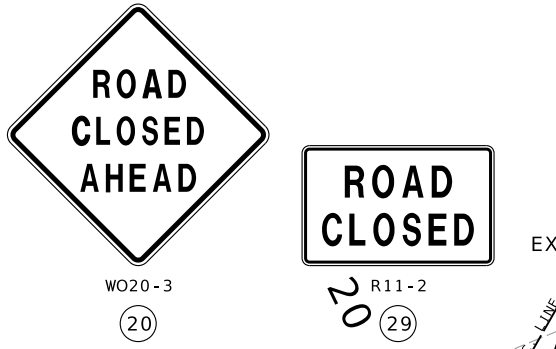
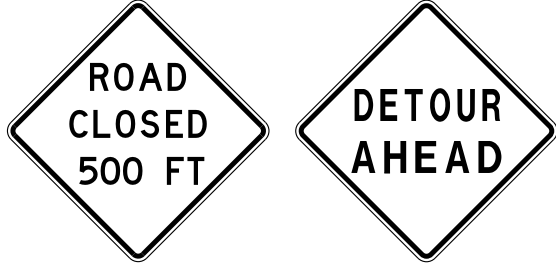
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

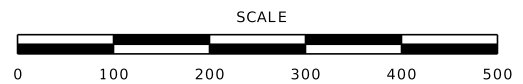
Jacobs
ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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

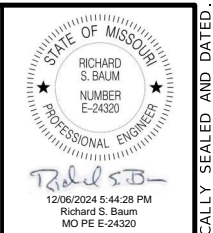


TRAFFIC CONTROL LEGEND

- COMPLETED CONSTRUCTION
- CONSTRUCT THIS PHASE
- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- BARRICADE



TRAFFIC CONTROL PLAN
PHASE 3A



DATE PREPARED
6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	36

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

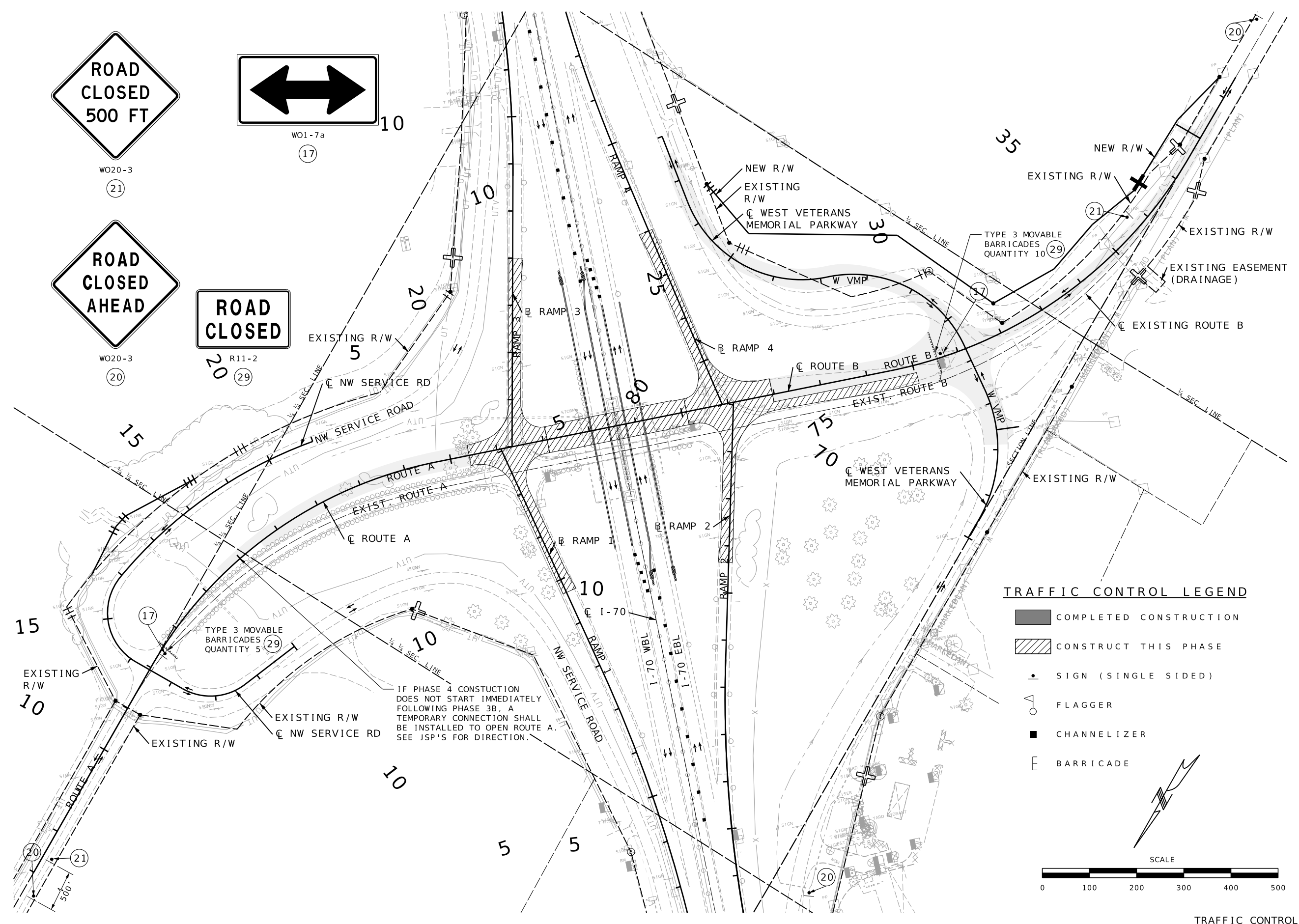
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

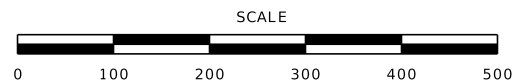
21:12 6-DEC-2024

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

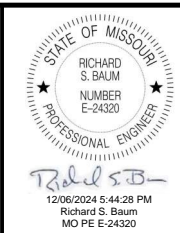


TRAFFIC CONTROL LEGEND

- COMPLETED CONSTRUCTION
- CONSTRUCT THIS PHASE
- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- BARRICADE



TRAFFIC CONTROL PLAN
PHASE 3B



DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 37

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

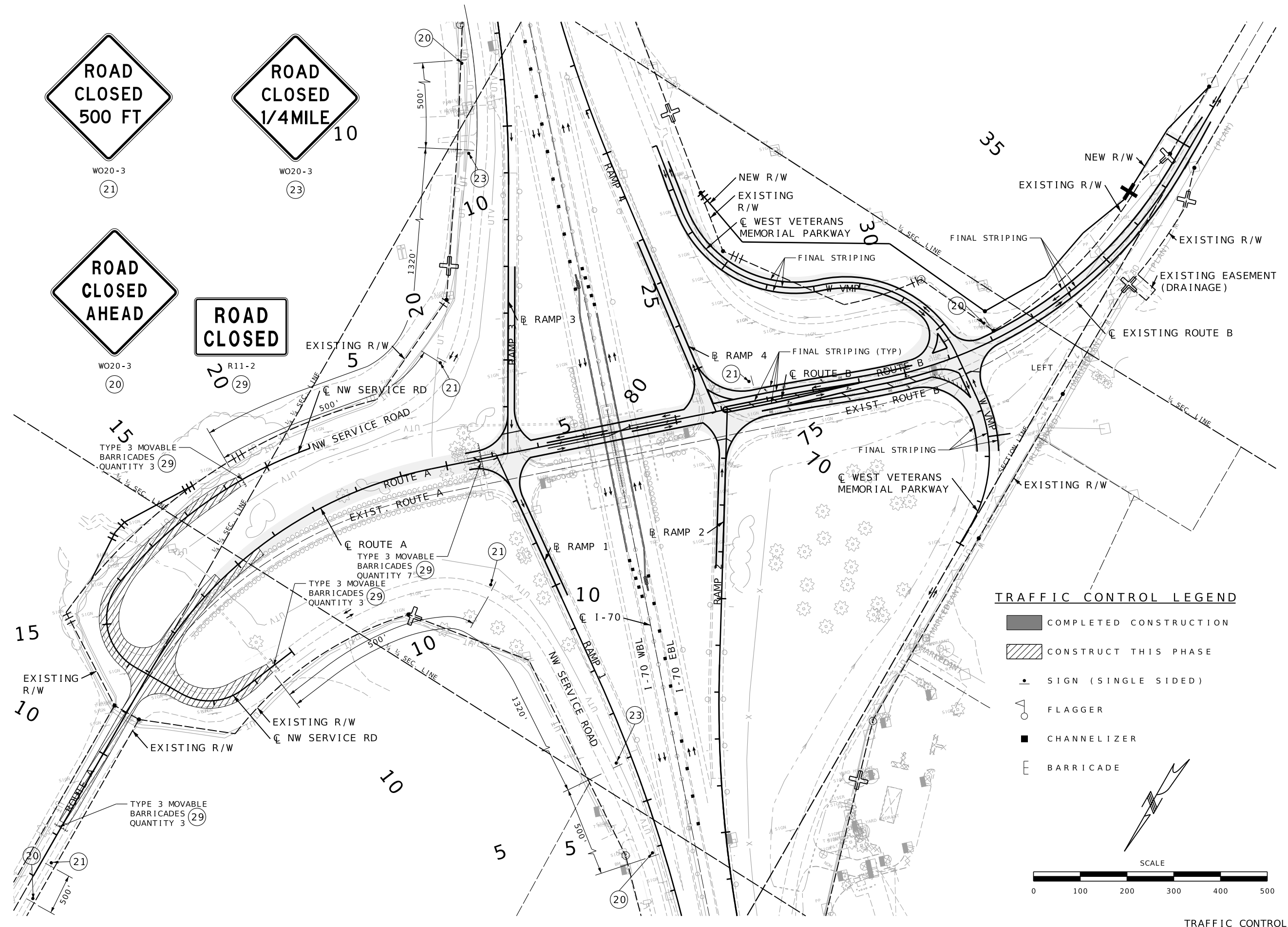
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

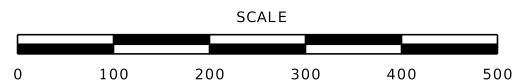
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



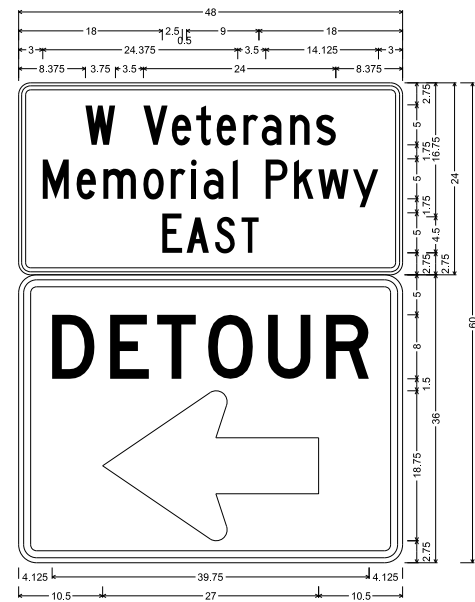
TRAFFIC CONTROL LEGEND

- COMPLETED CONSTRUCTION
- CONSTRUCT THIS PHASE
- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- BARRICADE



TRAFFIC CONTROL PLAN
PHASE 4

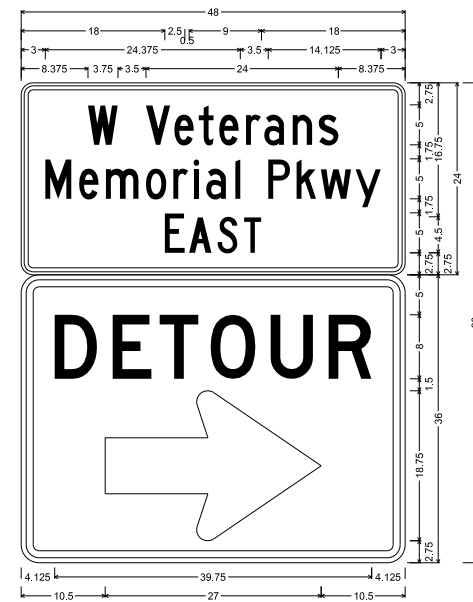
DATE	DESCRIPTION



MO4-9P SHF-FLAT SHEET FLUORESCENT;
 1.500" Radius, 0.500" Border, 0.375" Indent, Black on, Orange;
 "W Veterans", C 70% spacing; "Memorial Pkwy", C 70% spacing;
 "EAST", C;
 MO4-9L SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 "DETOUR", D; Standard Arrow Custom 27.000" X 18.750" 0";
 Table of letter and object lefts

W	V	E	M	P	K	E	A	S			
8.375	15.625	19.125	22.250	24.750	28.125	30.375	34.000	37.250			
M	E	A	S	E	A	S	E	A	S		
3.000	7.250	10.625	15.625	19.000	21.500	23.125	26.625				
P	K	E	A	S	E	A	S	E	A	S	
30.875	34.375	37.500	41.750								
E	A	S	E	A	S	E	A	S	E	A	S
18.000	21.000	24.625	27.750								
D	E	T	O	U	R	E	A	S	E	A	S
4.125	11.375	17.250	23.625	31.250	38.500						
⇨											
10.500											

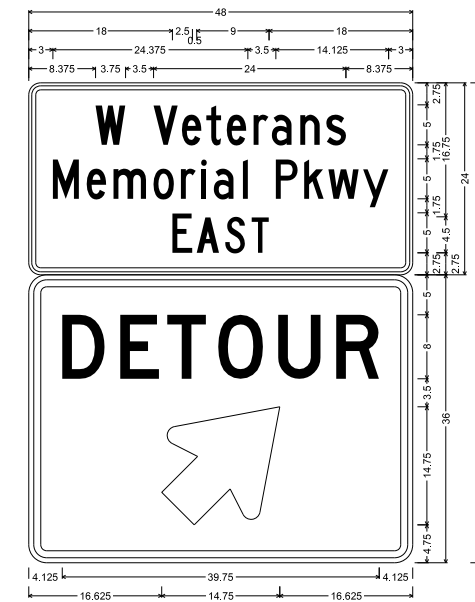
50A5



MO4-9P SHF-FLAT SHEET FLUORESCENT;
 1.500" Radius, 0.500" Border, 0.375" Indent, Black on, Orange;
 "W Veterans", C 70% spacing; "Memorial Pkwy", C 70% spacing;
 "EAST", C;
 MO4-9R SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 "DETOUR", D; Standard Arrow Custom 27.000" X 18.750" 0";
 Table of letter and object lefts

W	V	E	M	P	K	E	A	S			
8.375	15.625	19.125	22.250	24.750	28.125	30.375	34.000	37.250			
M	E	A	S	E	A	S	E	A	S		
3.000	7.250	10.625	15.625	19.000	21.500	23.125	26.625				
P	K	E	A	S	E	A	S	E	A	S	
30.875	34.375	37.500	41.750								
E	A	S	E	A	S	E	A	S	E	A	S
18.000	21.000	24.625	27.750								
D	E	T	O	U	R	E	A	S	E	A	S
4.125	11.375	17.250	23.625	31.250	38.500						
⇨											
10.500											

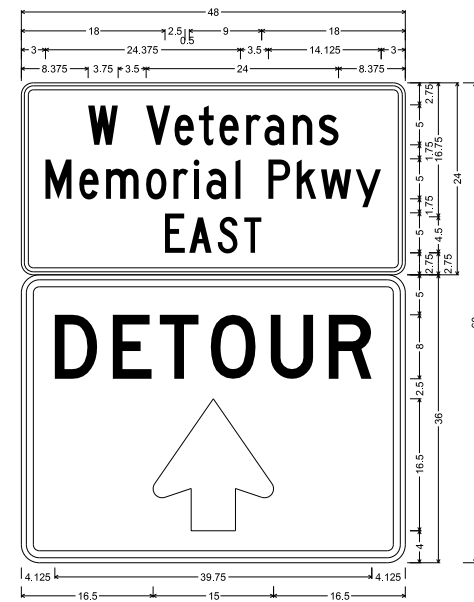
50B5



MO4-9P SHF-FLAT SHEET FLUORESCENT;
 1.500" Radius, 0.500" Border, 0.375" Indent, Black on, Orange;
 "W Veterans", C 70% spacing; "Memorial Pkwy", C 70% spacing;
 "EAST", C;
 MO4-9 SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 "DETOUR", D; Standard Arrow Custom 18.000" X 15.500" 45";
 Table of letter and object lefts

W	V	E	M	P	K	E	A	S			
8.375	15.625	19.125	22.250	24.750	28.125	30.375	34.000	37.250			
M	E	A	S	E	A	S	E	A	S		
3.000	7.250	10.625	15.625	19.000	21.500	23.125	26.625				
P	K	E	A	S	E	A	S	E	A	S	
30.875	34.375	37.500	41.750								
E	A	S	E	A	S	E	A	S	E	A	S
18.000	21.000	24.625	27.750								
D	E	T	O	U	R	E	A	S	E	A	S
4.125	11.375	17.250	23.625	31.250	38.500						
⇨											
16.625											

50F5

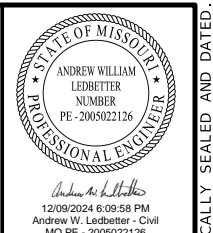
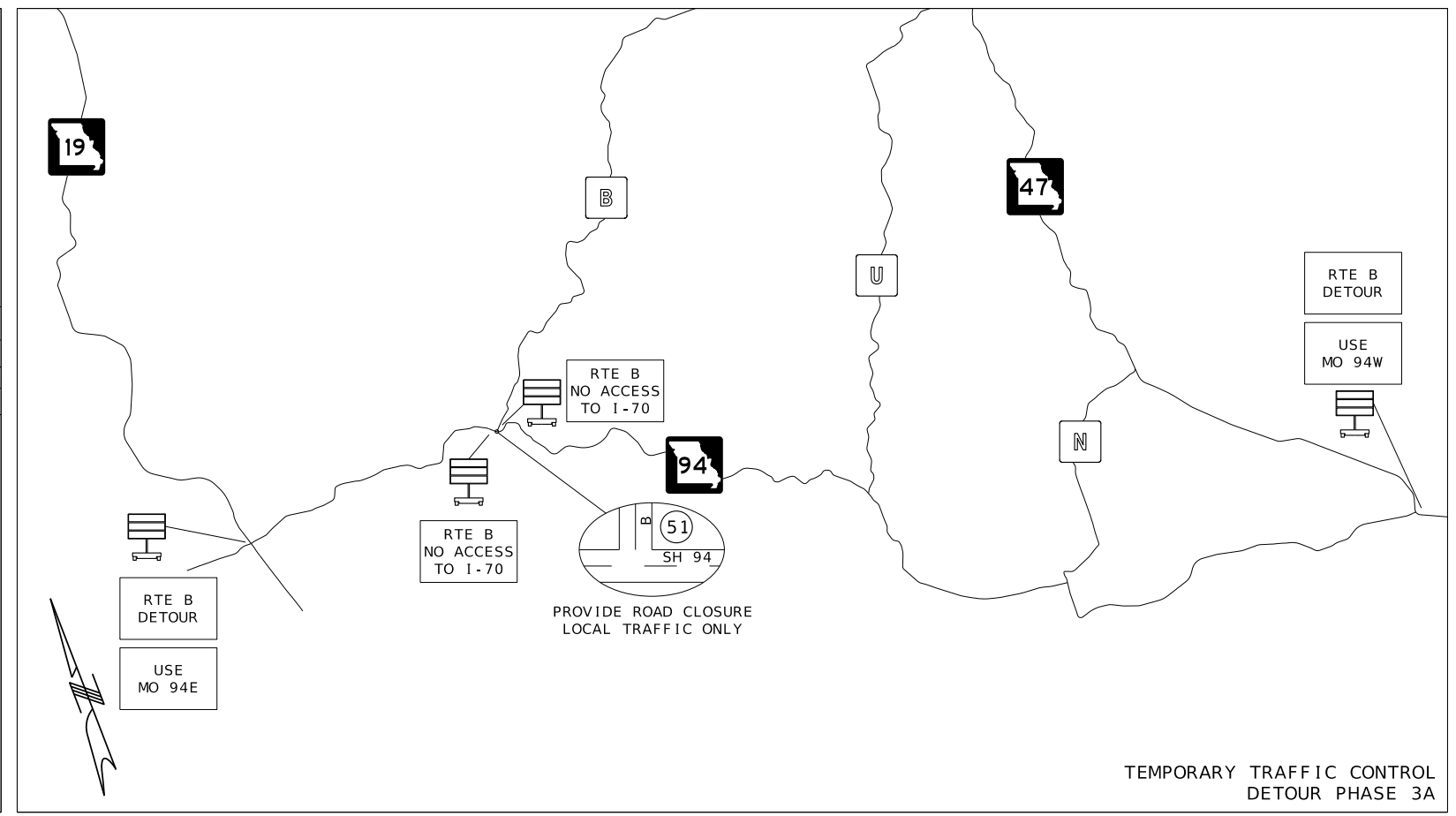
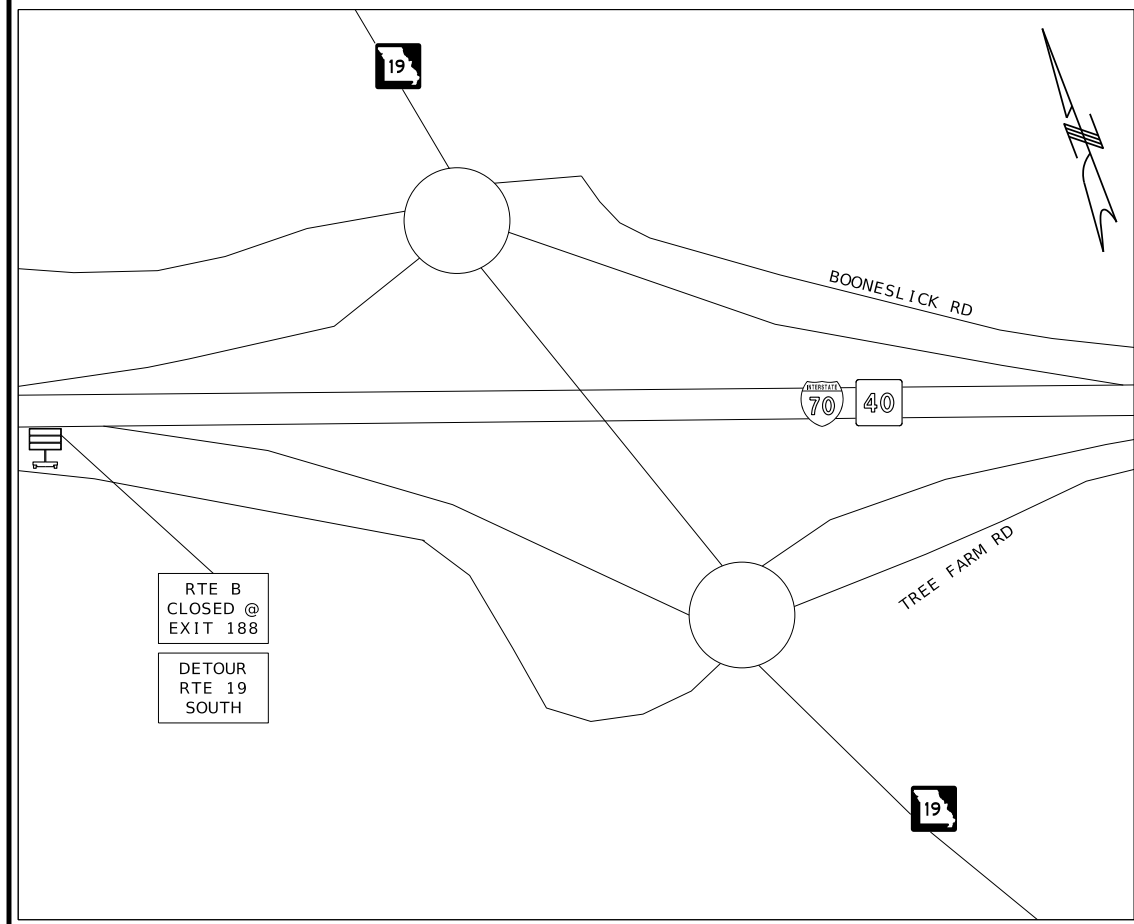
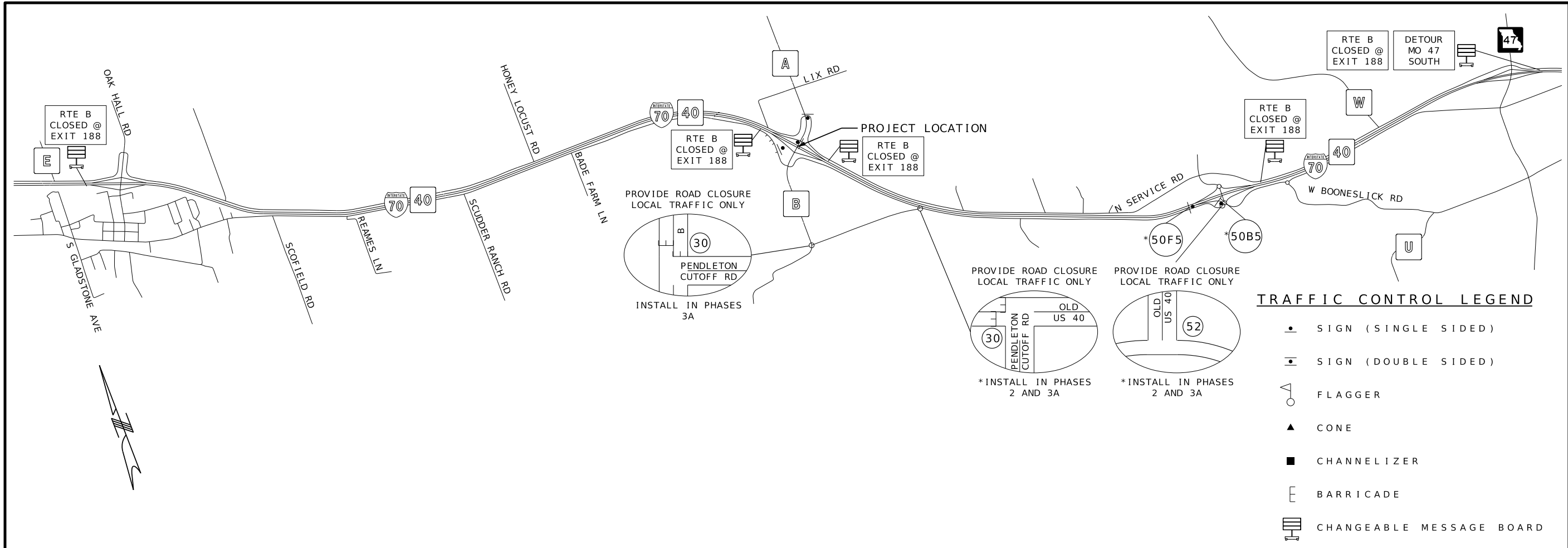


MO4-9P SHF-FLAT SHEET FLUORESCENT;
 1.500" Radius, 0.500" Border, 0.375" Indent, Black on, Orange;
 "W Veterans", C 70% spacing; "Memorial Pkwy", C 70% spacing;
 "EAST", C;
 MO4-9 SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 "DETOUR", D;
 Table of letter and object lefts

W	V	E	M	P	K	E	A	S			
8.375	15.625	19.125	22.250	24.750	28.125	30.375	34.000	37.250			
M	E	A	S	E	A	S	E	A	S		
3.000	7.250	10.625	15.625	19.000	21.500	23.125	26.625				
P	K	E	A	S	E	A	S	E	A	S	
30.875	34.375	37.500	41.750								
E	A	S	E	A	S	E	A	S	E	A	S
18.000	21.000	24.625	27.750								
D	E	T	O	U	R	E	A	S	E	A	S
4.125	11.375	17.250	23.625	31.250	38.500						
⇨											
16.500											

50G5

TEMPORARY TRAFFIC CONTROL
 DETOUR SIGNS

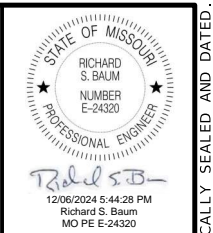
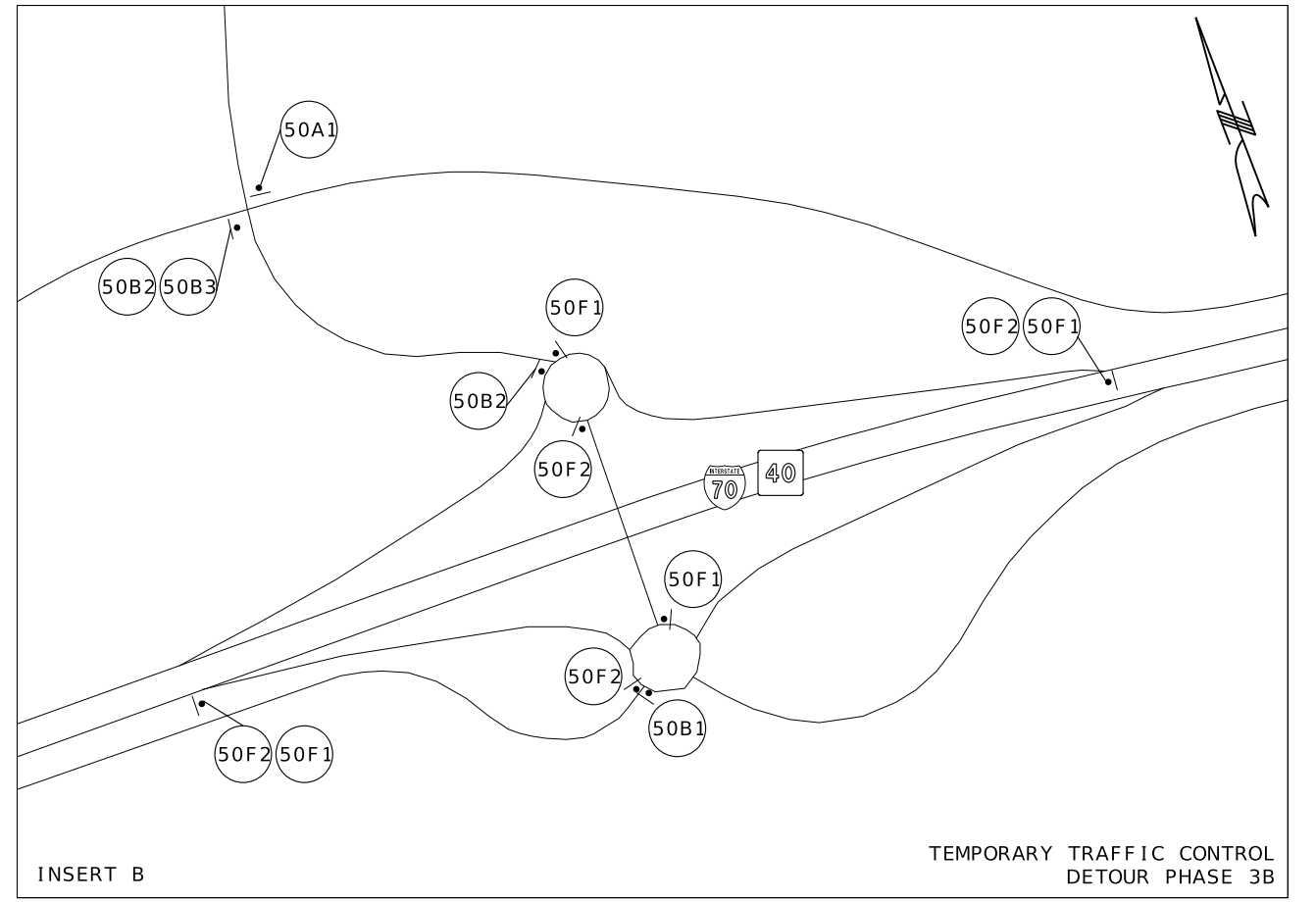
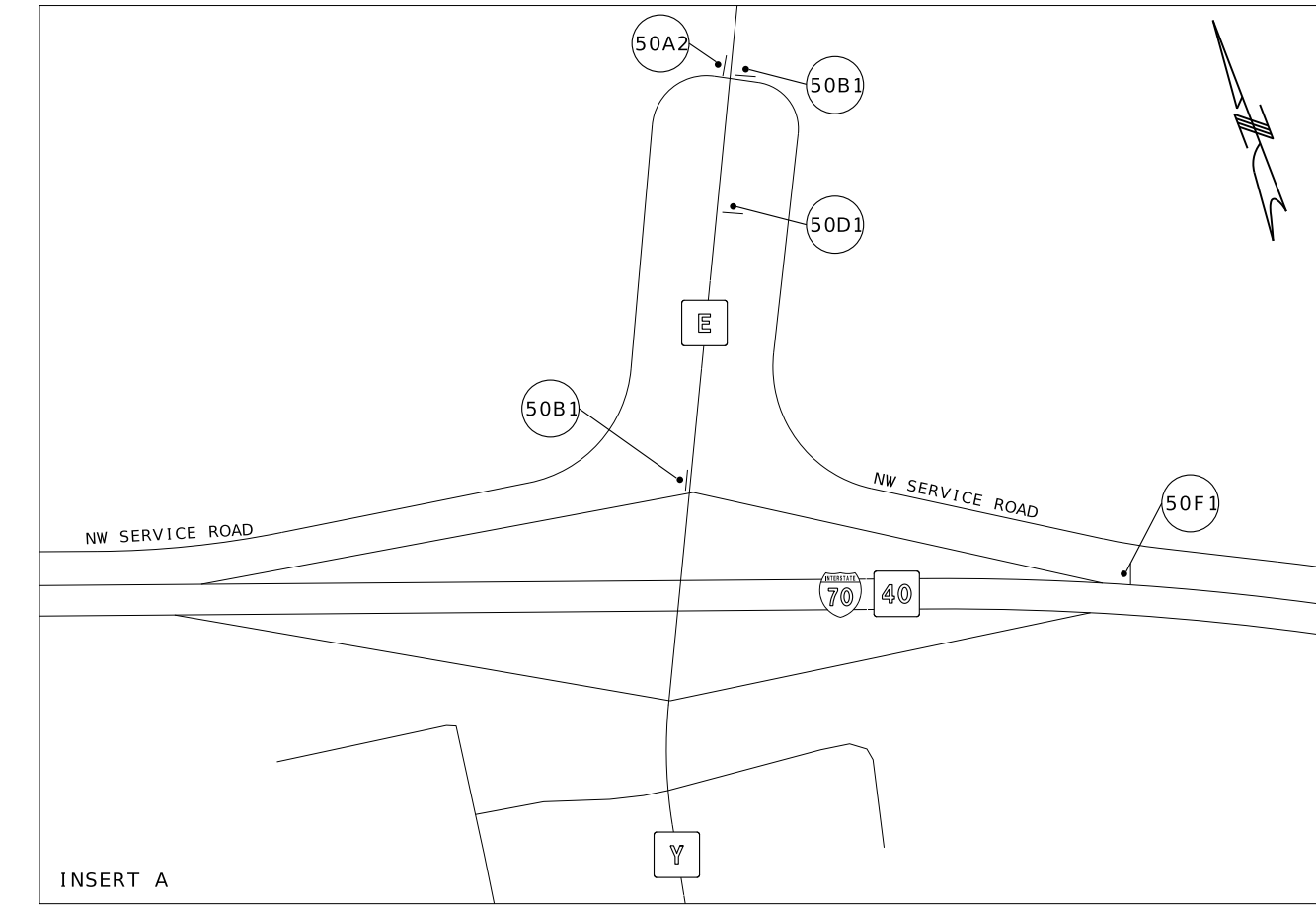
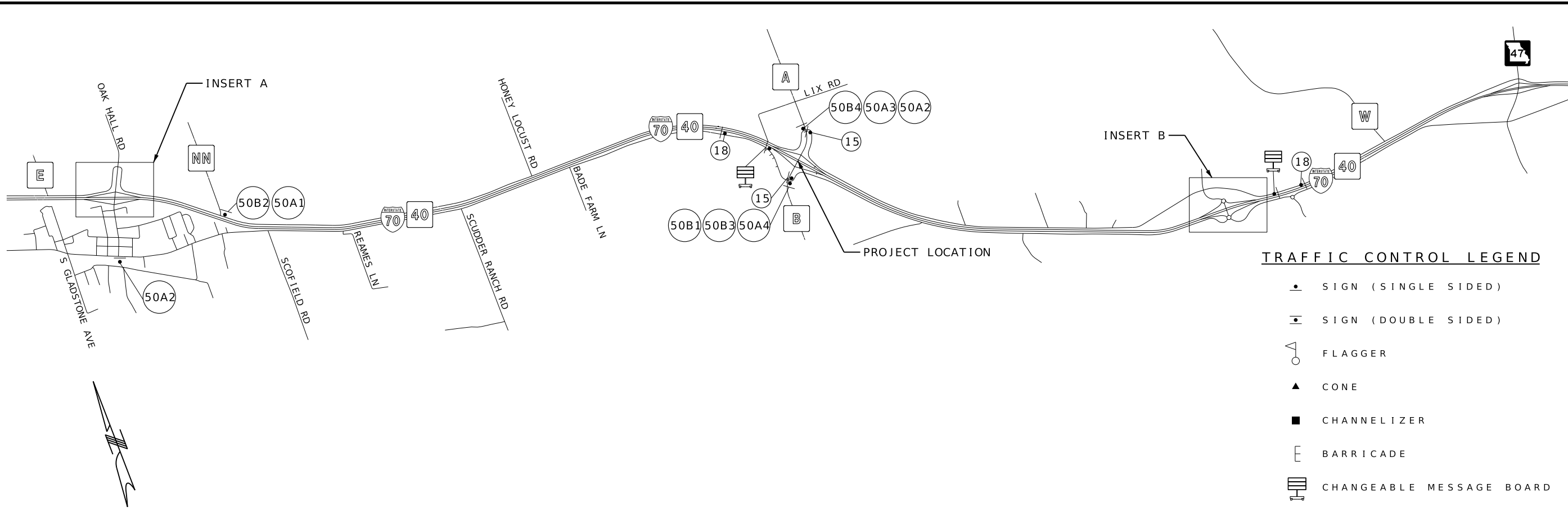


DATE PREPARED
9-DEC-2024
ROUTE STATE
A MO
DISTRICT SHEET NO.
NE 40
COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 41

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

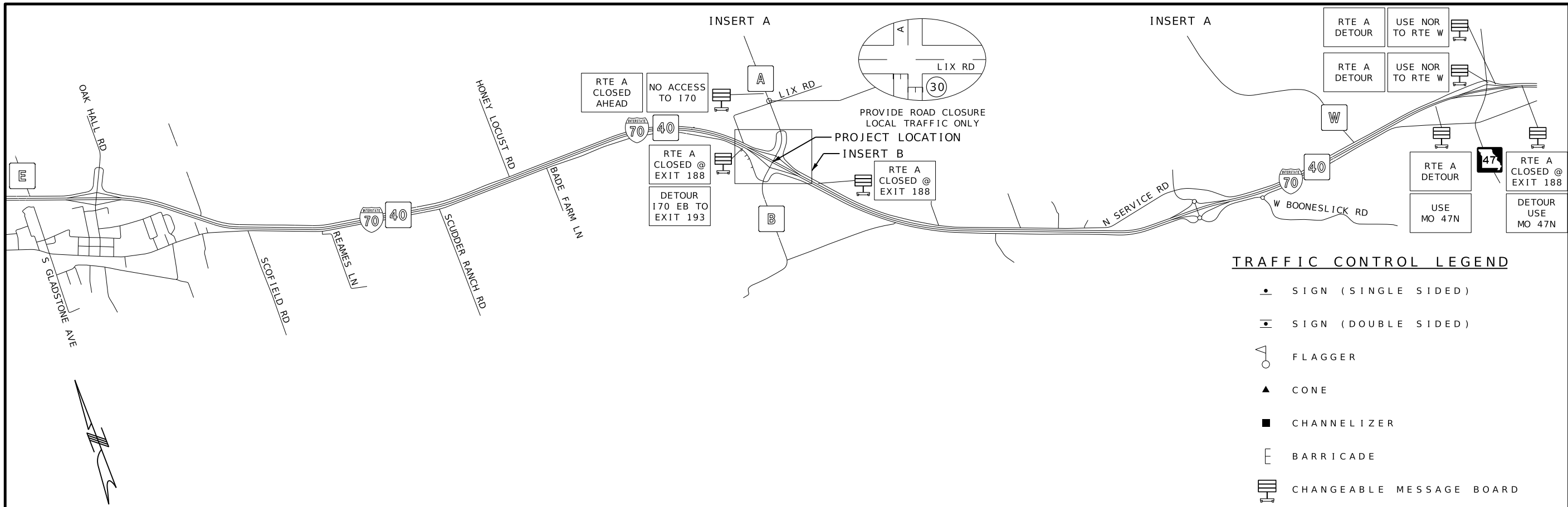
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- H CHANGEABLE MESSAGE BOARD



DATE PREPARED
9-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	42

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

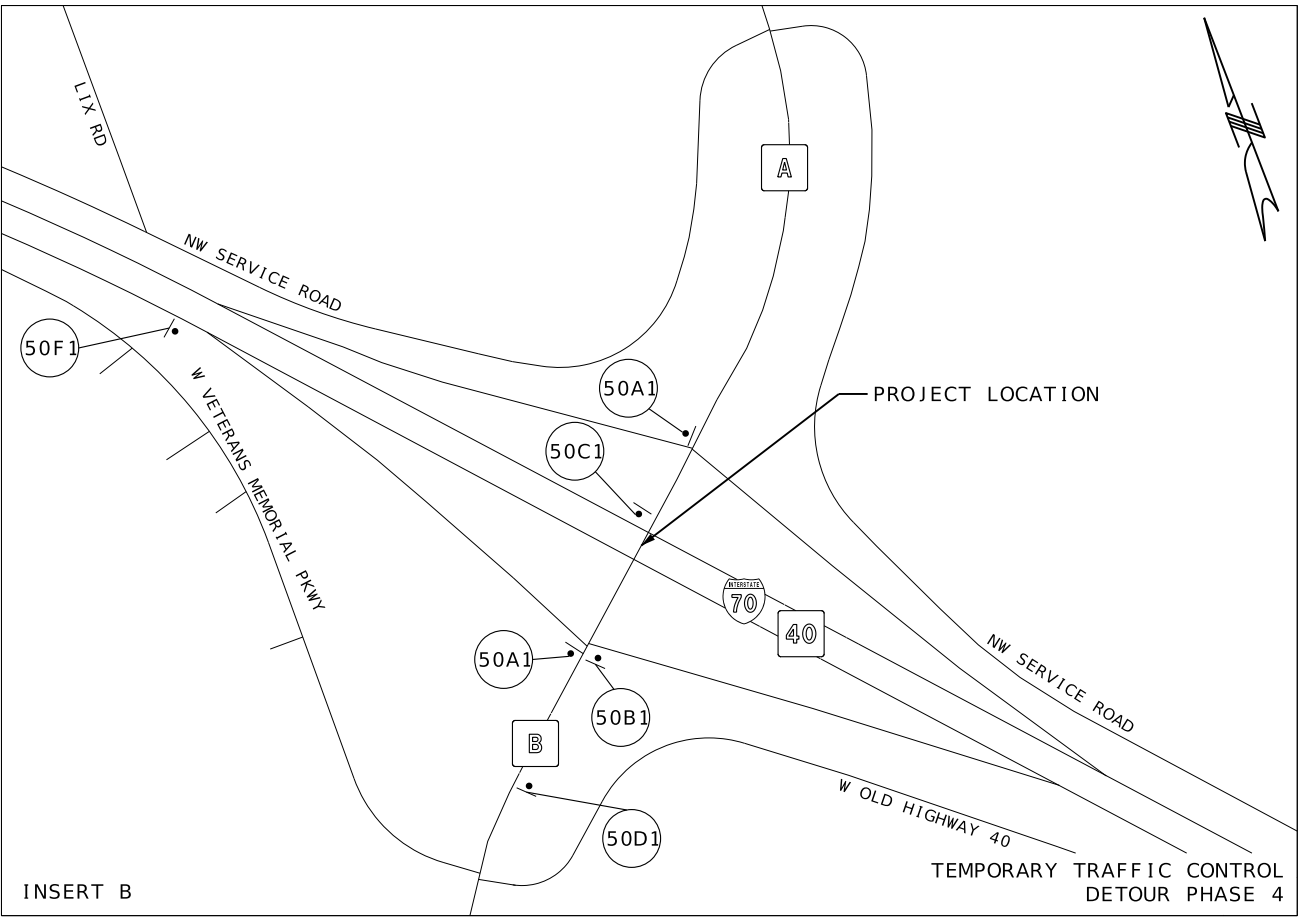
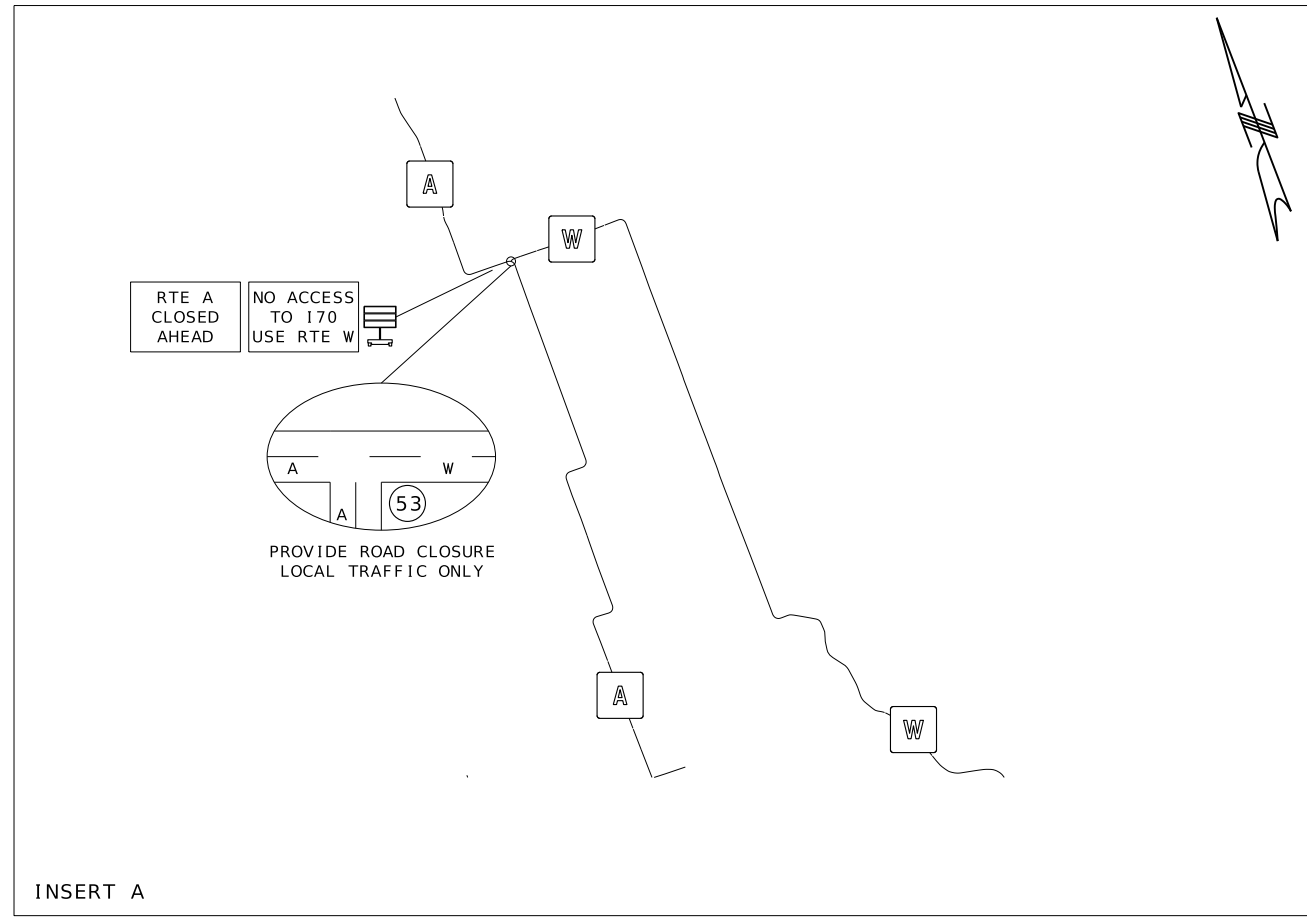
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

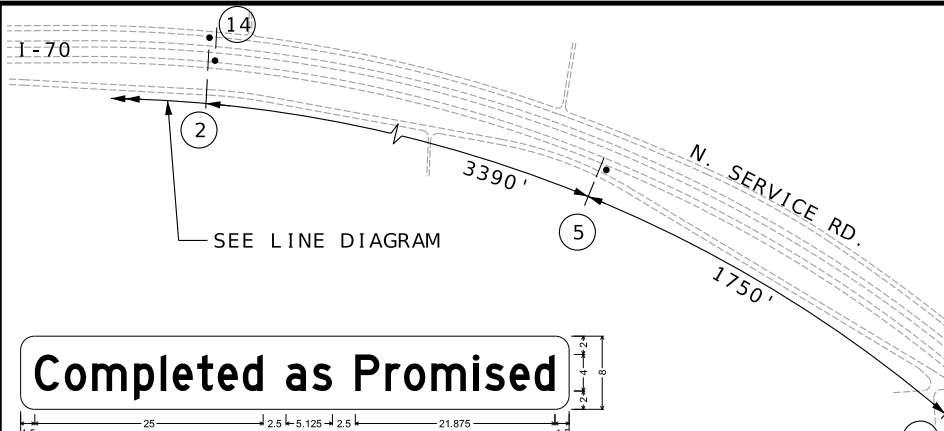
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

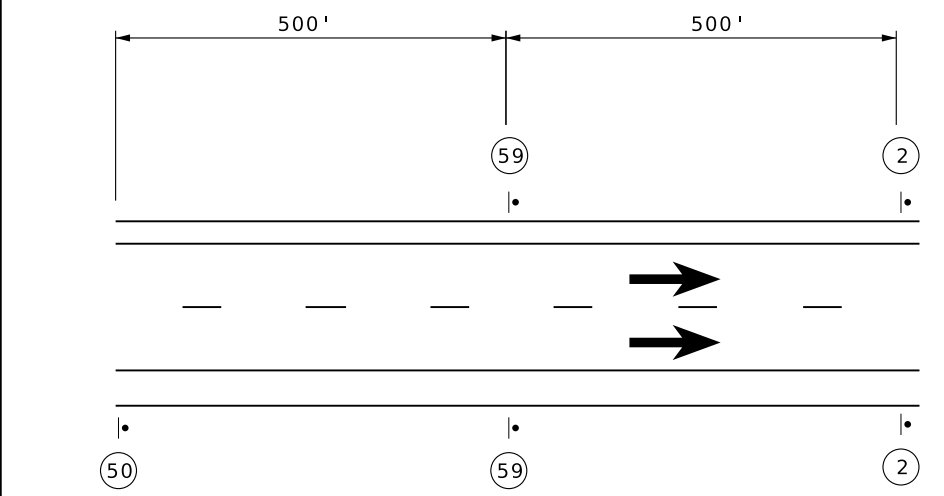


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



CONST-5P-60 SHF-FLAT SHEET FLUORESCENT; 1.500" Radius, No border, Yellow;
[Completed as Promised] Black D 65% spacing;
Table of letter and object lefts.

C	0	m	p	l	15	375	e	16	625	t	e	21	500	d	24	250	a	29	000	s	31	875
1	500	4	875	7	875	12	375	15	375	16	625	19	375	21	500	24	250	29	000	31	875	
P	36	625	39	875	41	875	44	875	49	500	50	750	53	500	56	250						





Road Improvements

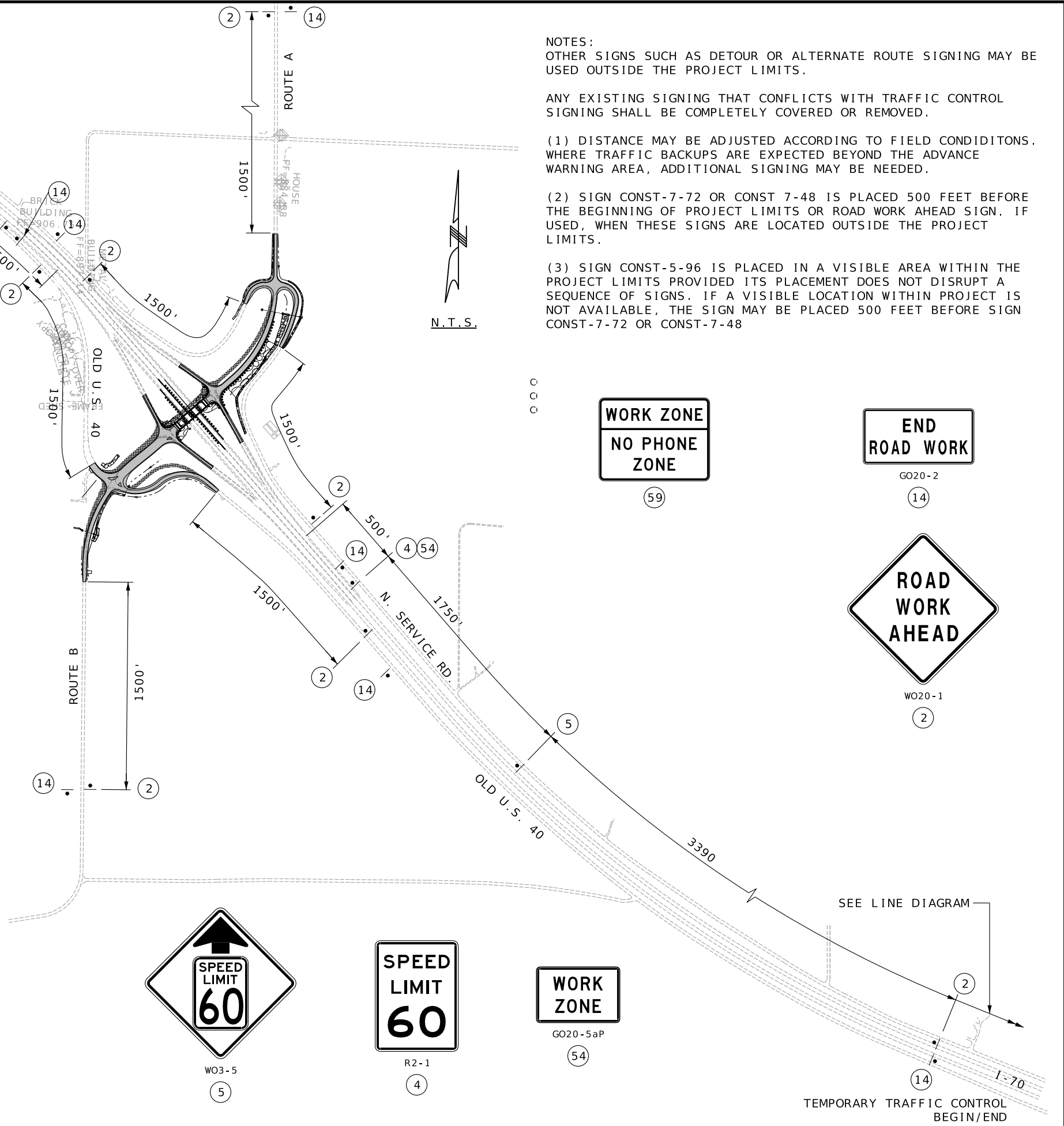
Spring 2026



CONST-5-96 SH-FLAT SHEET;
3.000" Radius, 0.750" Border, White on, Blue;
Improve I-70; "Road Improvements", D 75% spacing; "Spring 2026", D;
Table of letter and object lefts

R	0	a	d	l	15	375	e	16	625	t	e	21	500	d	24	250	a	29	000	s	31	875
4	500	10	375	15	375	20	625	29	375	32	375	40	625	45	875	49	500	54	375	60	000	
S	4	500	9	250	13	250	16	375	18	875	22	875	30	750	35	000	39	500	43	750	48	375

CONST - 5 - 96
POINT OF PRESENCE



NOTES:
OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

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

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

(2) SIGN CONST-7-72 OR CONST 7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR ROAD WORK AHEAD SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48

SPEED LIMIT
60

WO3 - 5
5

SPEED LIMIT
60

R2 - 1
4

WORK ZONE

GO20 - 5aP
54

WORK ZONE
NO PHONE ZONE

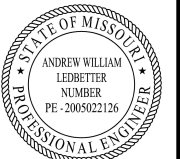
59

END ROAD WORK

GO20 - 2
14

ROAD WORK AHEAD

WO20 - 1
2



ANDREW WILLIAM LEDBETTER
NUMBER 2005022126
DATE PREPARED 9-DEC-2024
ROUTE A STATE MO
DISTRICT NE SHEET NO. 43
COUNTY WARREN
JOB NO. J2S3438
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)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

SEE FIGURE 2

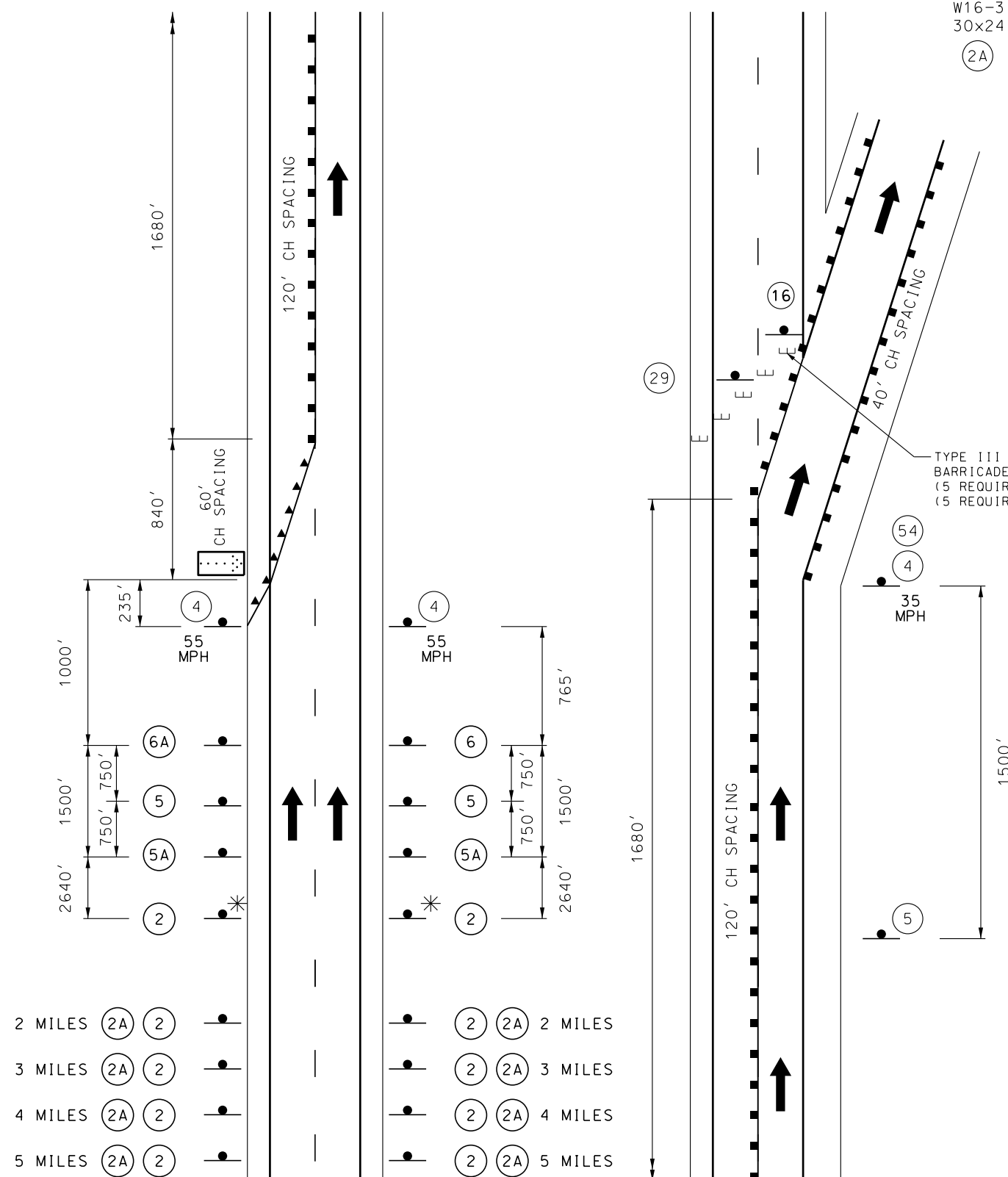
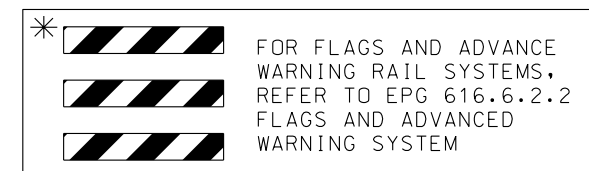
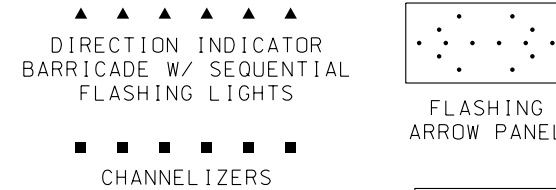
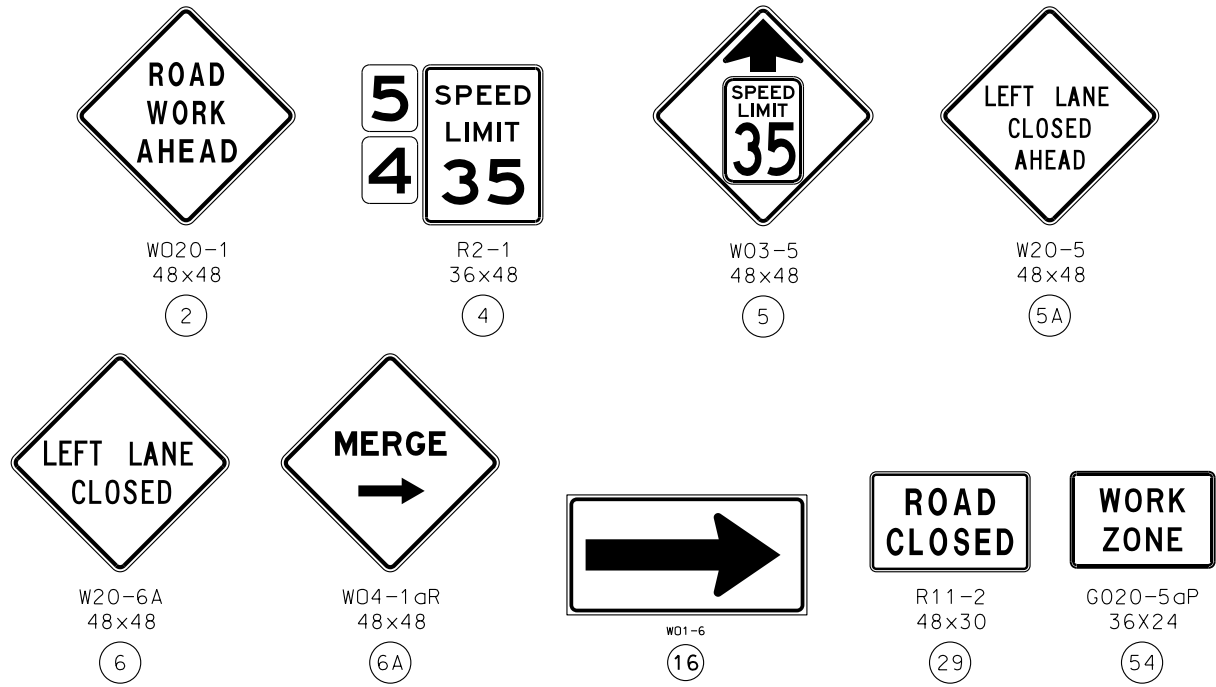


FIGURE 1
EAST / WEST BOUND
I-70
(NOT TO SCALE)

FIGURE 2
EAST / WEST BOUND
I-70
(NOT TO SCALE)

MILES
W16-3
30x24
(2A)



NOTES:

DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS ARE TO BE USED AT TAPER LOCATIONS.

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

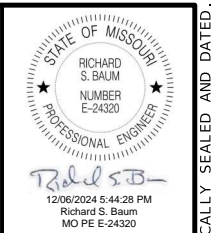
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.

ADVANCE ROAD WORK AHEAD SIGNS SHALL BE PLACED AS NEEDED IN ADVANCE OF I-70 QUEUE.

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TEMPORARY TRAFFIC CONTROL
FULL CLOSURE INTERSTATE



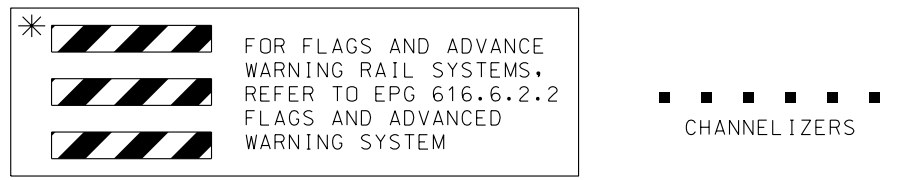
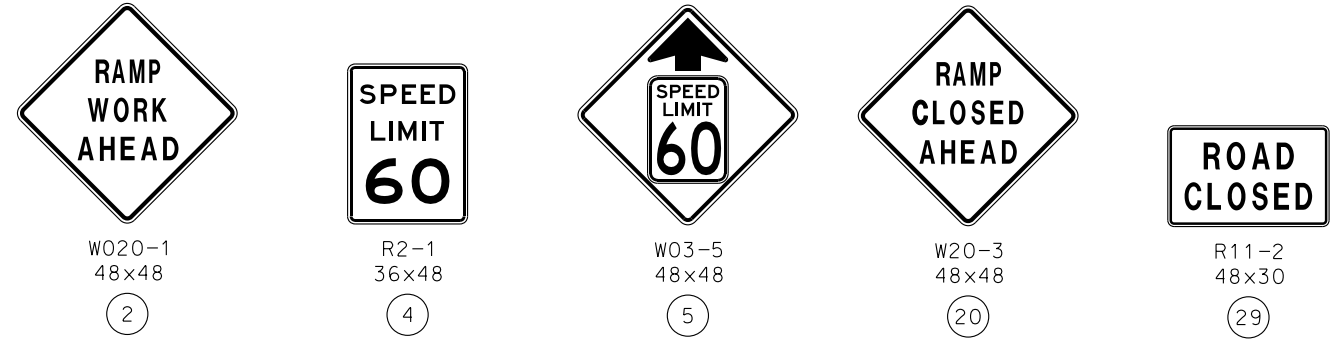
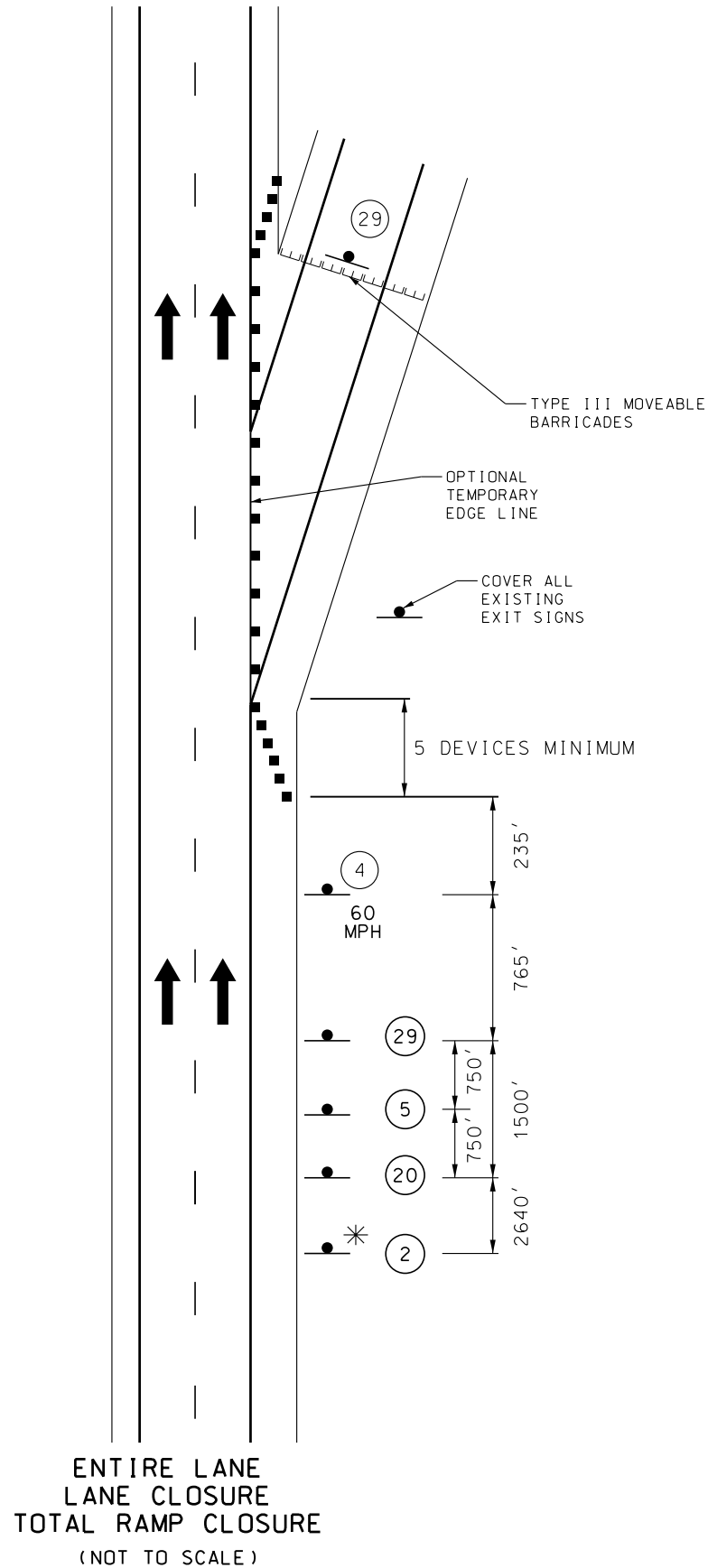
DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 44
COUNTY WARREN	
JOB NO. J253438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



MESSAGES TO BE DISPLAYED ON VARIOUS CMS BOARDS AS FOLLOWS:

- EXIT 188 (PENDLETON) - EASTBOUND
 - EXIT 188 / RTE A B / CLOSED
 - DETOUR / AT / EXIT 191
- EXIT 191 (W WARRENTON BLVD) - WESTBOUND
 - EXIT 188 / RTE A B / CLOSED
 - DETOUR / AT / EXIT 191

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

TEMPORARY PAVEMENT MARKING OPTIONAL WITH SHORT TERM CLOSURES.

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

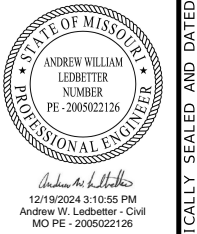
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS ARE TO BE USED AT TAPER LOCATIONS.

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

THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.

TEMPORARY TRAFFIC CONTROL
RAMP CLOSURE



DATE PREPARED
19-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 45

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

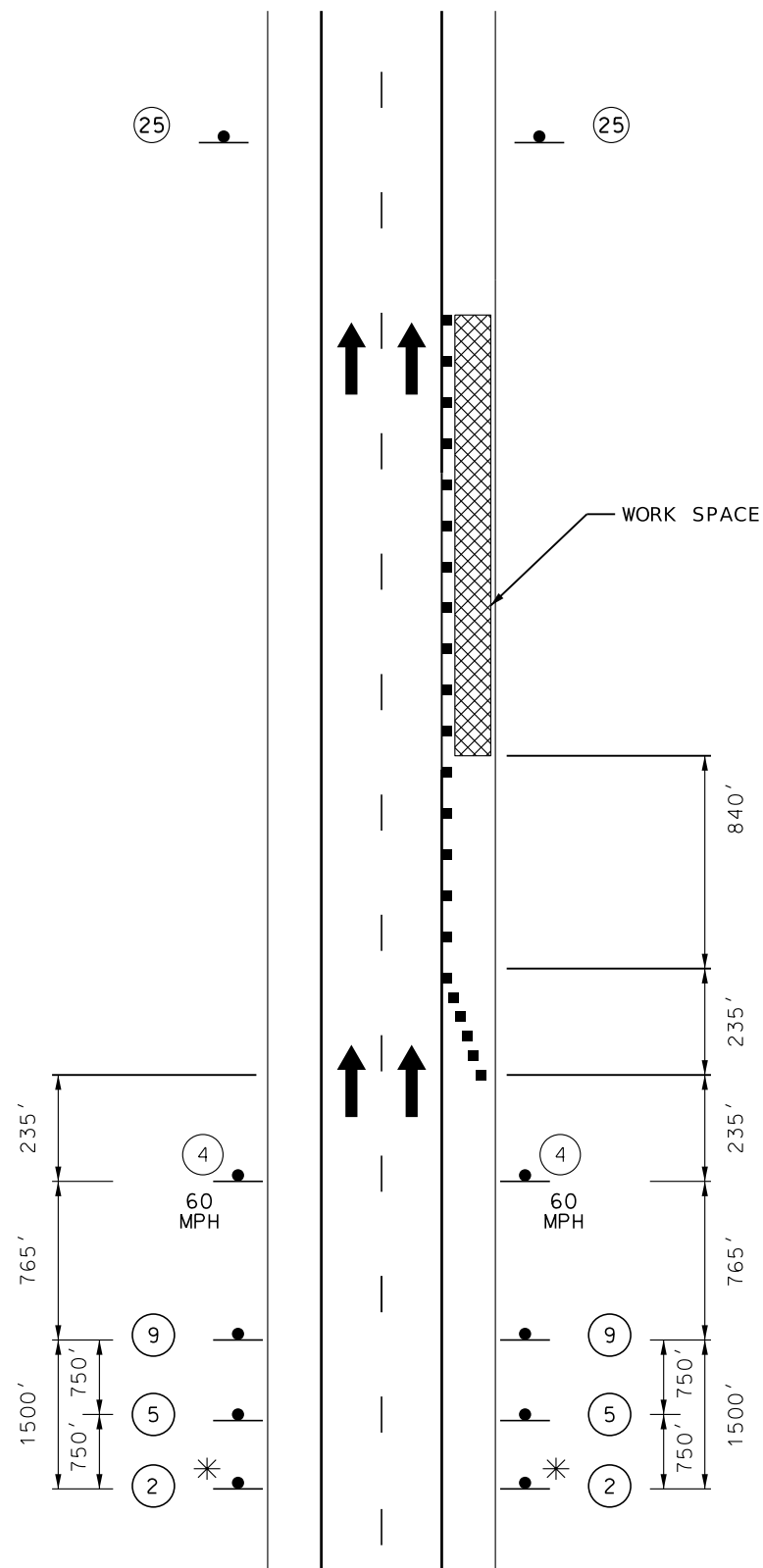
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



SHOULDER WORK ON DIVIDED HIGHWAY

(NOT TO SCALE)

 W020-1 48x48 ②	 W021-5a 48x48 ⑨	 R2-1 (NORMAL SPEED) 36x48 ⑲
 R2-1 36x48 ④	 W03-5 48x48 ⑤	

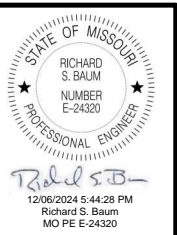
*		FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS.
		REFER TO EPG 616.6.2.2
		FLAGS AND ADVANCED WARNING SYSTEM

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

ROAD WORK AHEAD REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD IS ALREADY USED.



DATE PREPARED
6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	46

COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

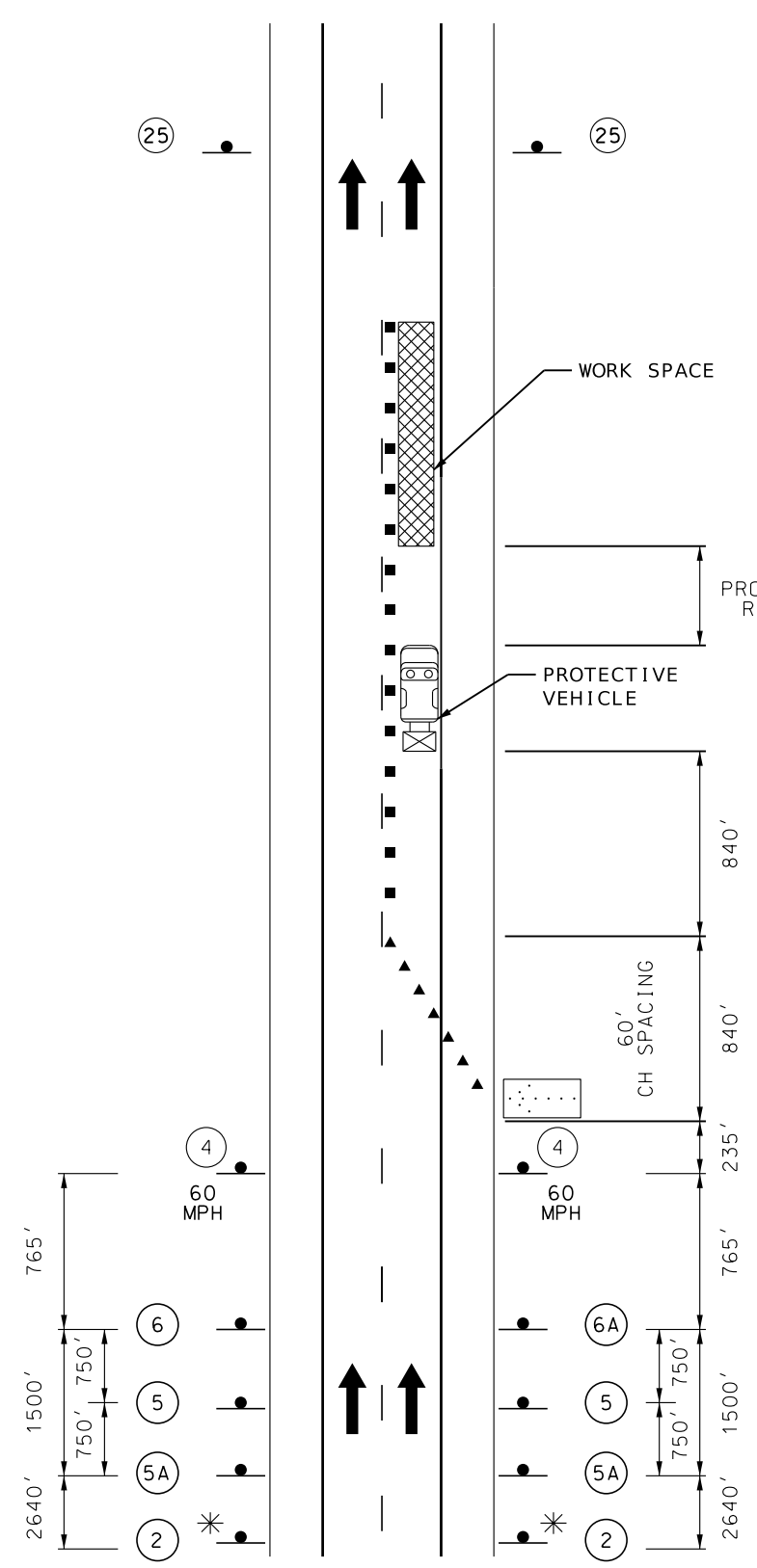
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

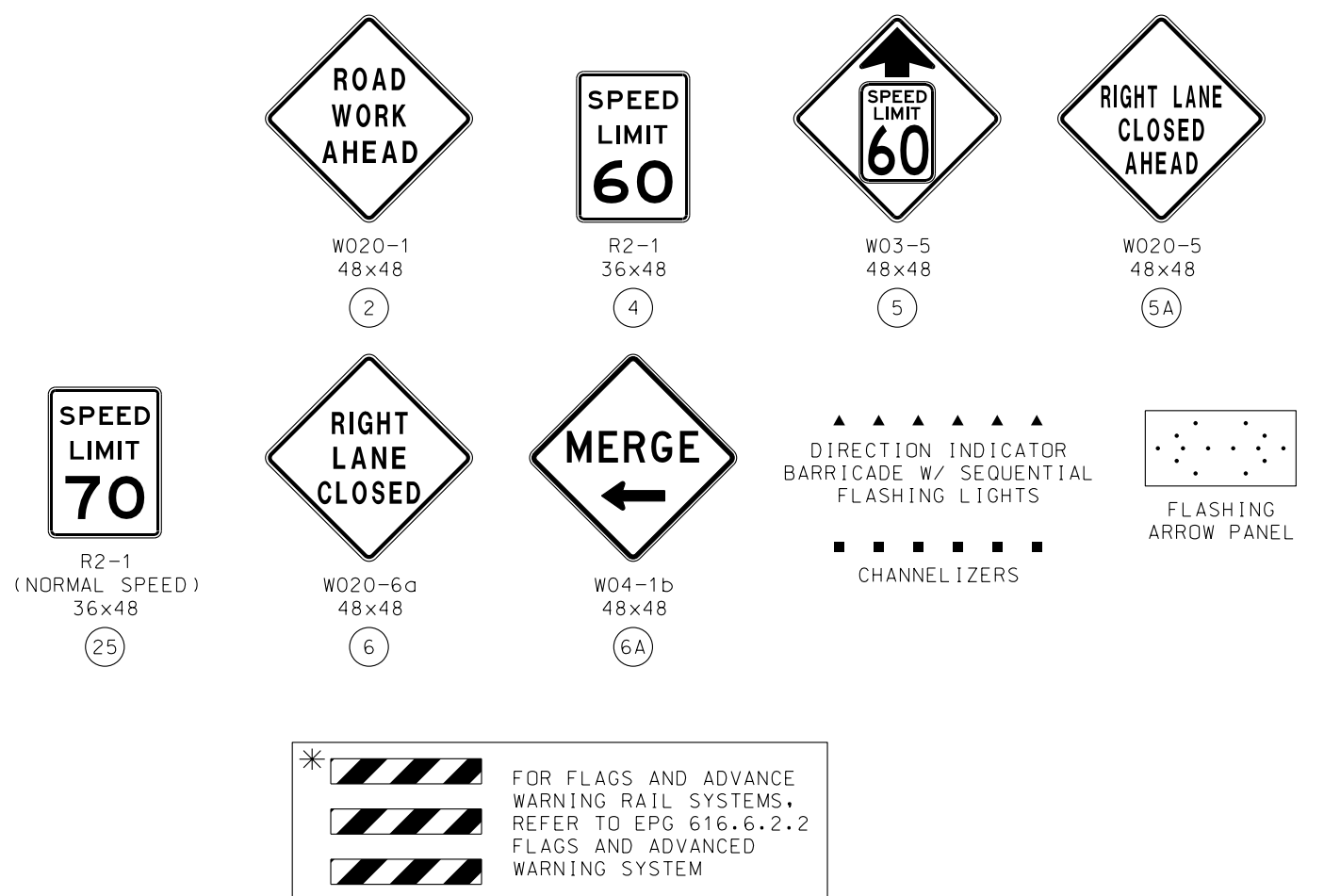
TEMPORARY TRAFFIC CONTROL SHOULDER CLOSURE

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



LANE WORK ON DIVIDED HIGHWAY

(NOT TO SCALE)



NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

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

DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS ARE TO BE USED AT TAPER LOCATIONS.

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

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

THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.

STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER
 Richard S. Baum
 12/06/2024 5:44:28 PM
 MO PE E-24320

DATE PREPARED
6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	47
COUNTY	
WARREN	
JOB NO.	
J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

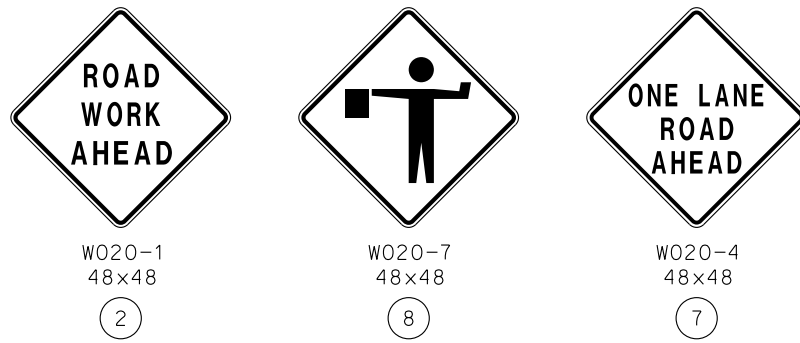
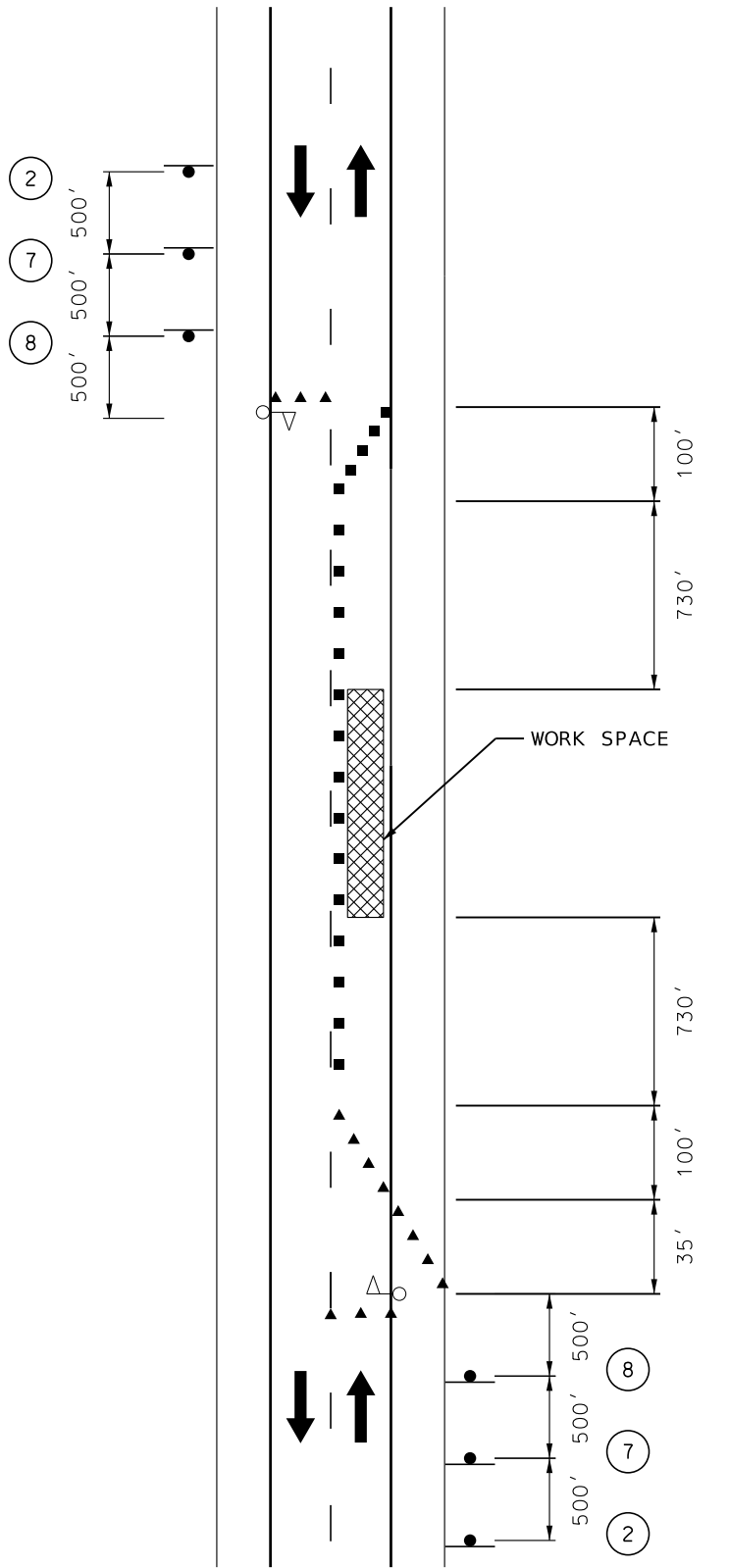
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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Jacobs
 ENGINEERING GROUP
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TEMPORARY TRAFFIC CONTROL
 LANE CLOSURE



▲ ▲ ▲ ▲ ▲
 DIRECTION INDICATOR
 BARRICADE W/ SEQUENTIAL
 FLASHING LIGHTS

■ ■ ■ ■ ■
 CHANNELIZERS

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

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

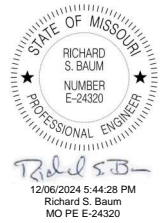
ALTERNATIVE TEMPORARY TRAFFIC CONTROL SET-UPS SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.

DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS ARE TO BE USED AT TAPER LOCATIONS.

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

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

THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.



DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 48

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

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 ST. LOUIS, MISSOURI 63110
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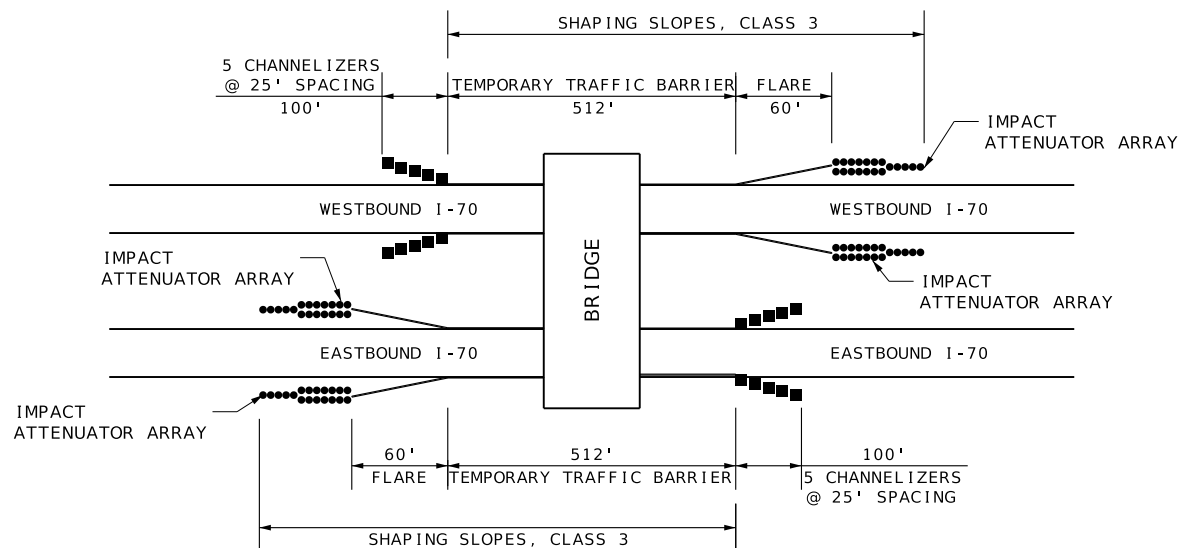
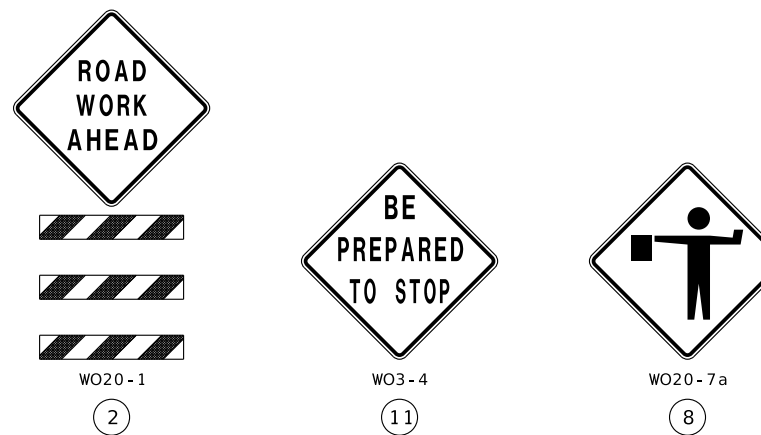
LANE WORK ON UNDIVIDED HIGHWAY WITH FLAGGERS
 (NOT TO SCALE)

TEMPORARY TRAFFIC CONTROL
 LANE CLOSURE WITH FLAGGERS

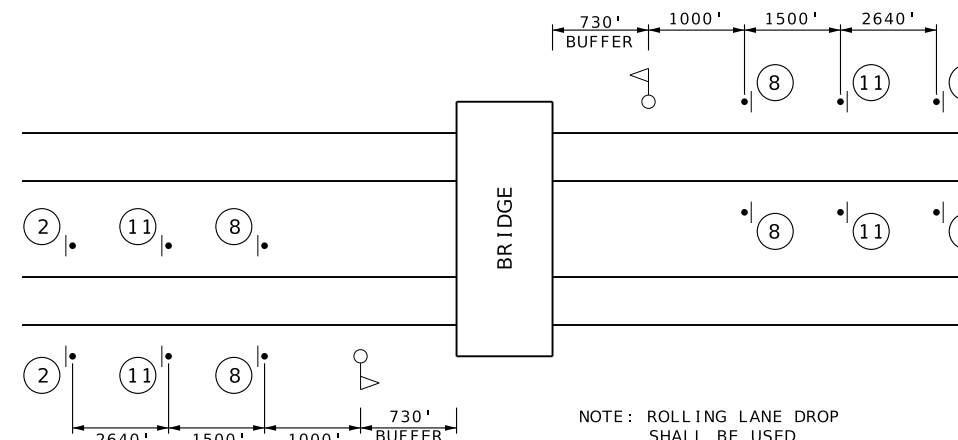
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DETAIL NOTES:

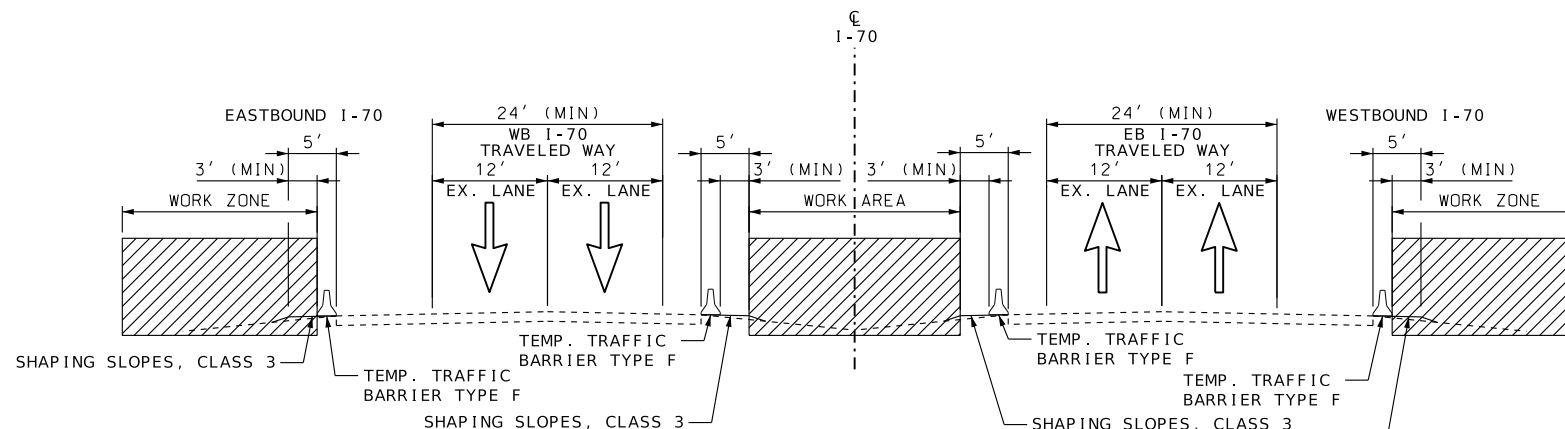
- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.
- (4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.



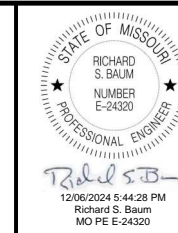
TYPICAL TRAFFIC CONTROL FOR CONSTRUCTION IN I-70 MEDIAN
(SEE SHEET 45 FOR ADDITIONAL SHOULDER WORK DETAIL)
USE DURING PHASE 1-3



TYPICAL SIGNING FOR STOP CONDITIONS ON I-70
USE DURING PHASE 1-3



SECTION - STAGES 1-5
TYPICAL SECTION I-70



DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 49
COUNTY WARREN	
JOB NO. J2S3438	
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)

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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

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Richard S. Baum
 12/06/2024 5:44:28 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
 6-DEC-2024

ROUTE A STATE MO
 DISTRICT NE SHEET NO. 50

COUNTY
 WARREN

JOB NO.
 J2S3438

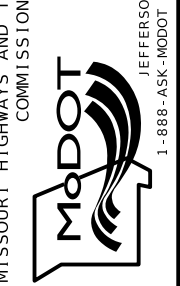
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

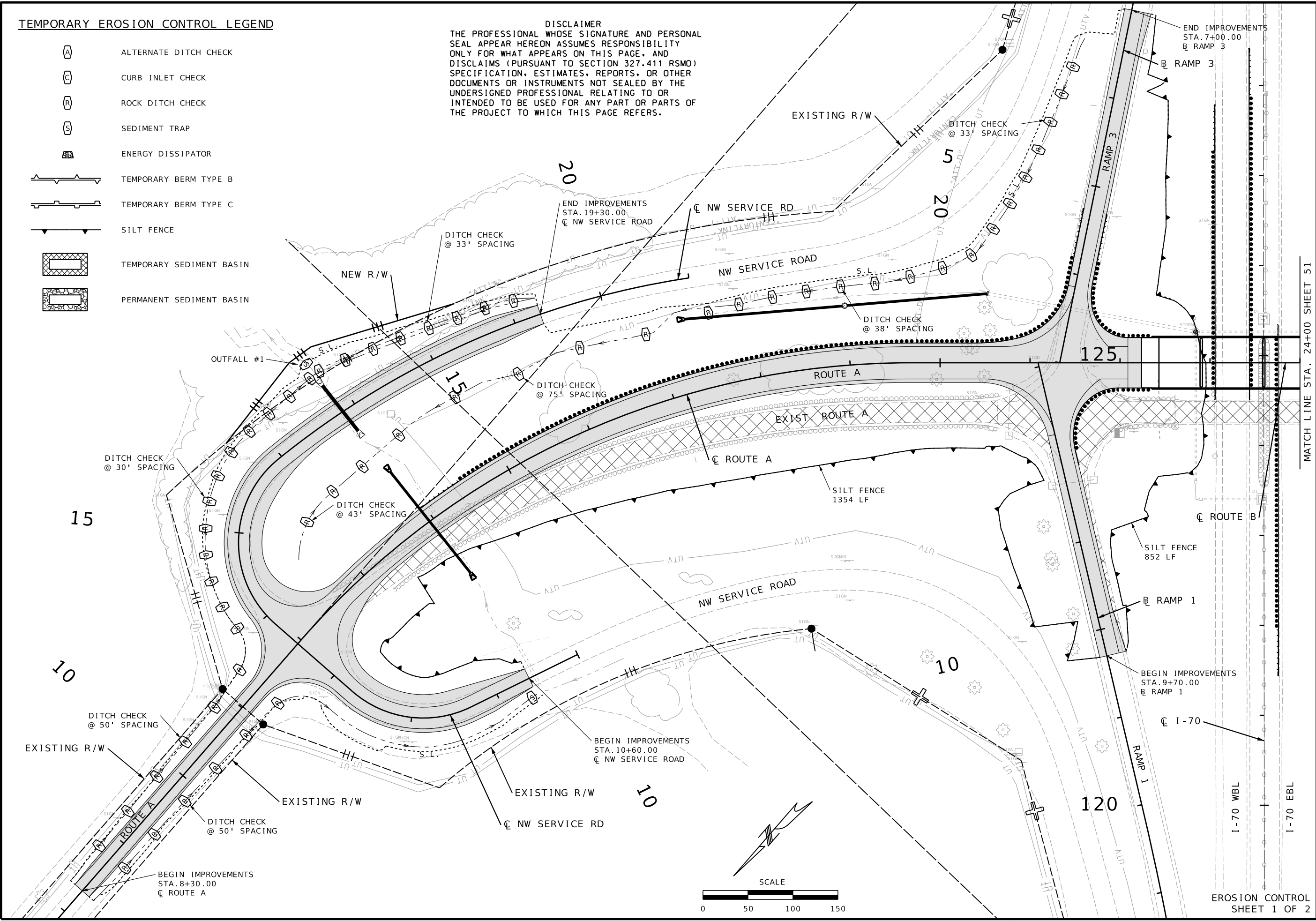
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
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MATCH LINE STA. 24+00 SHEET 51

EROSION CONTROL SHEET 1 OF 2

10

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Richard S. Baum
 MO PE E-24320

DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO
 DISTRICT SHEET NO.
NE 51

COUNTY
WARREN
 JOB NO.
J2S3438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

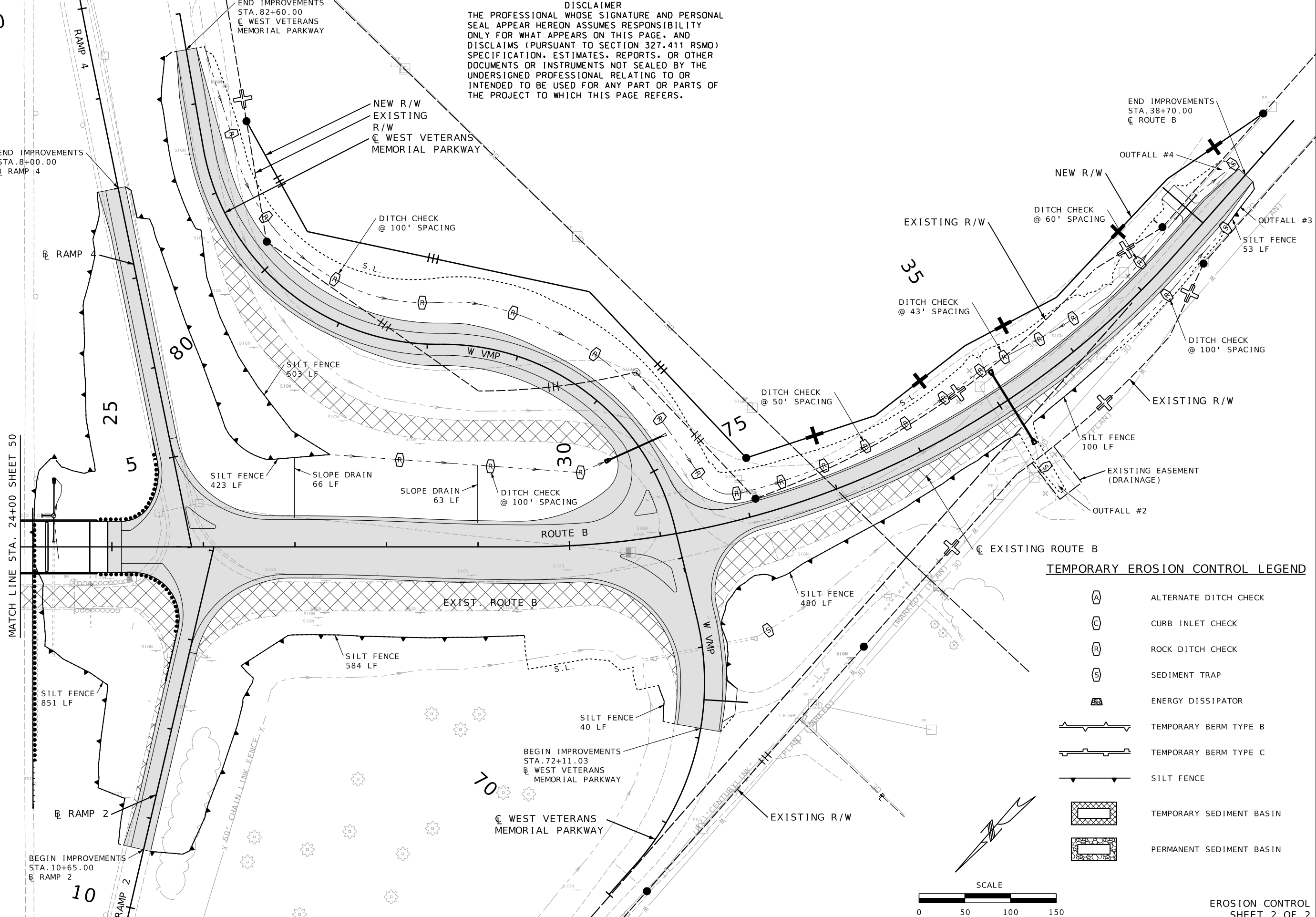
DESCRIPTION	DATE

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



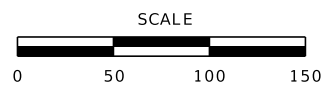
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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TEMPORARY EROSION CONTROL LEGEND

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

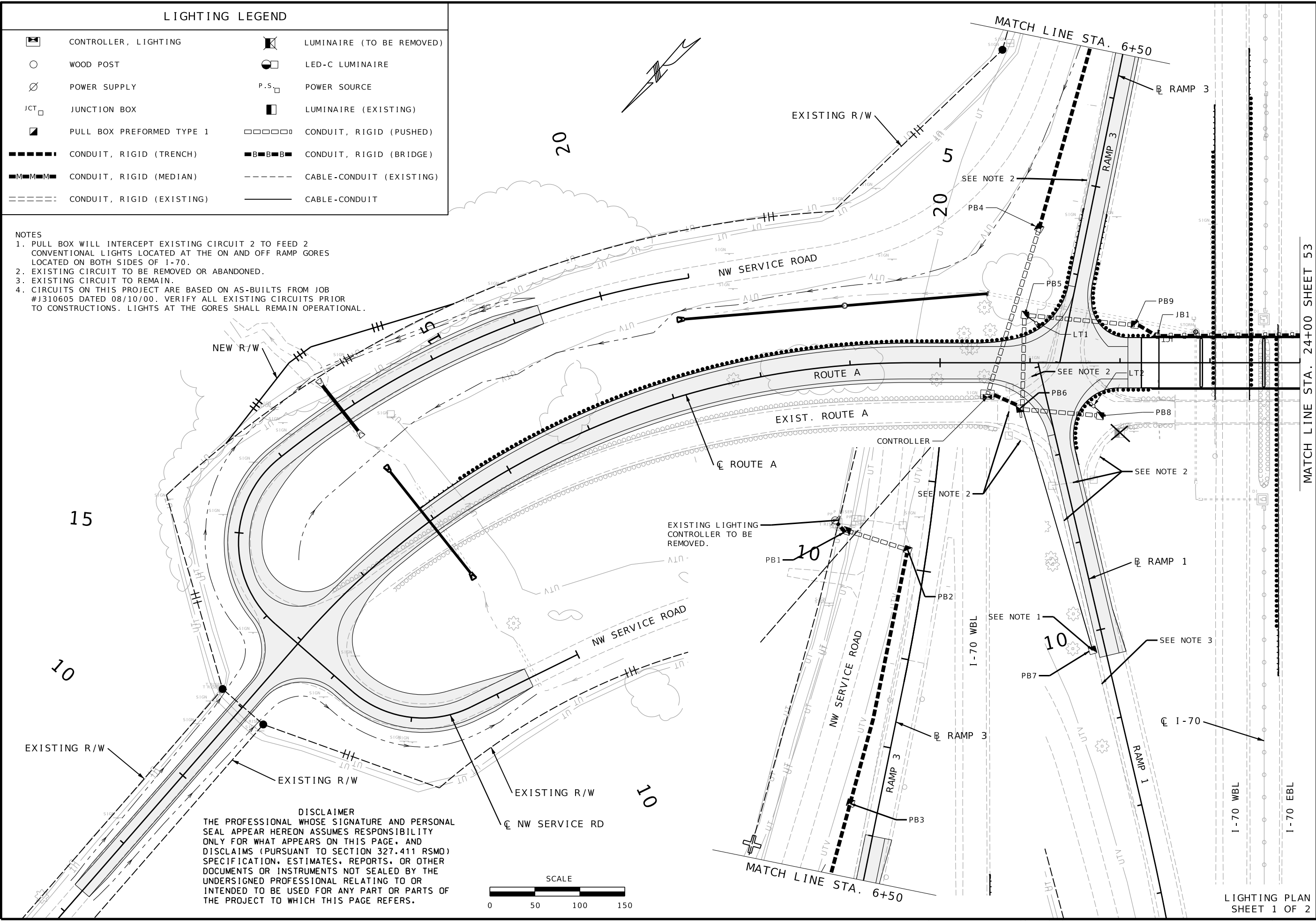


EROSION CONTROL
 SHEET 2 OF 2

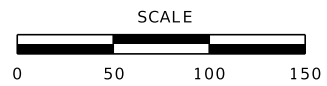
LIGHTING LEGEND

	CONTROLLER, LIGHTING		LUMINAIRE (TO BE REMOVED)
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		POWER SOURCE
	JUNCTION BOX		LUMINAIRE (EXISTING)
	PULL BOX PREFORMED TYPE 1		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (MEDIAN)		CABLE-CONDUIT (EXISTING)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT

- NOTES
- PULL BOX WILL INTERCEPT EXISTING CIRCUIT 2 TO FEED 2 CONVENTIONAL LIGHTS LOCATED AT THE ON AND OFF RAMP GORES LOCATED ON BOTH SIDES OF I-70.
 - EXISTING CIRCUIT TO BE REMOVED OR ABANDONED.
 - EXISTING CIRCUIT TO REMAIN.
 - CIRCUITS ON THIS PROJECT ARE BASED ON AS-BUILTS FROM JOB #J310605 DATED 08/10/00. VERIFY ALL EXISTING CIRCUITS PRIOR TO CONSTRUCTIONS. LIGHTS AT THE GOES SHALL REMAIN OPERATIONAL.



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12/06/2024 8:13:11 AM
 Laura Anne Glaser - Electrical
 MO PE-2010001771
 DATE PREPARED
6-DEC-2024
 ROUTE STATE
 A MO
 DISTRICT SHEET NO.
 NE 52
 COUNTY
WARREN
 JOB NO.
J2S3438
 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)

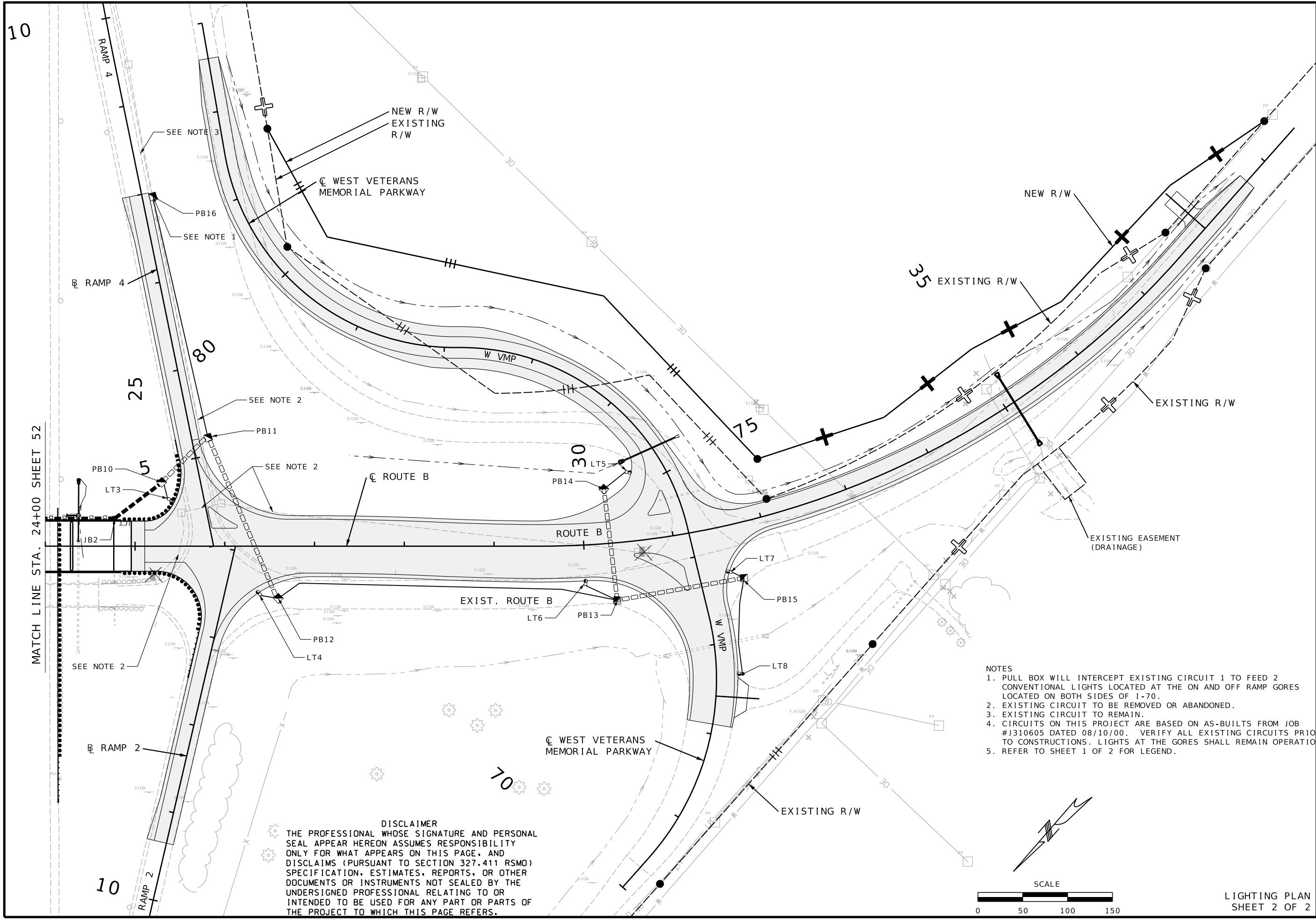
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

LIGHTING PLAN SHEET 1 OF 2

MATCH LINE STA. 24+00 SHEET 53

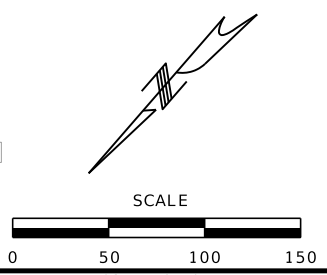
DATE	DESCRIPTION

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- NOTES**
1. PULL BOX WILL INTERCEPT EXISTING CIRCUIT 1 TO FEED 2 CONVENTIONAL LIGHTS LOCATED AT THE ON AND OFF RAMP GORES LOCATED ON BOTH SIDES OF 1-70.
 2. EXISTING CIRCUIT TO BE REMOVED OR ABANDONED.
 3. EXISTING CIRCUIT TO REMAIN.
 4. CIRCUITS ON THIS PROJECT ARE BASED ON AS-BUILTS FROM JOB #1310605 DATED 08/10/00. VERIFY ALL EXISTING CIRCUITS PRIOR TO CONSTRUCTIONS. LIGHTS AT THE GORES SHALL REMAIN OPERATIONAL.
 5. REFER TO SHEET 1 OF 2 FOR LEGEND.



LIGHTING PLAN
 SHEET 2 OF 2



DATE PREPARED
 6-DEC-2024

ROUTE A STATE MO
 DISTRICT NE SHEET NO. 53
 COUNTY WARREN
 JOB NO. J2S3438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

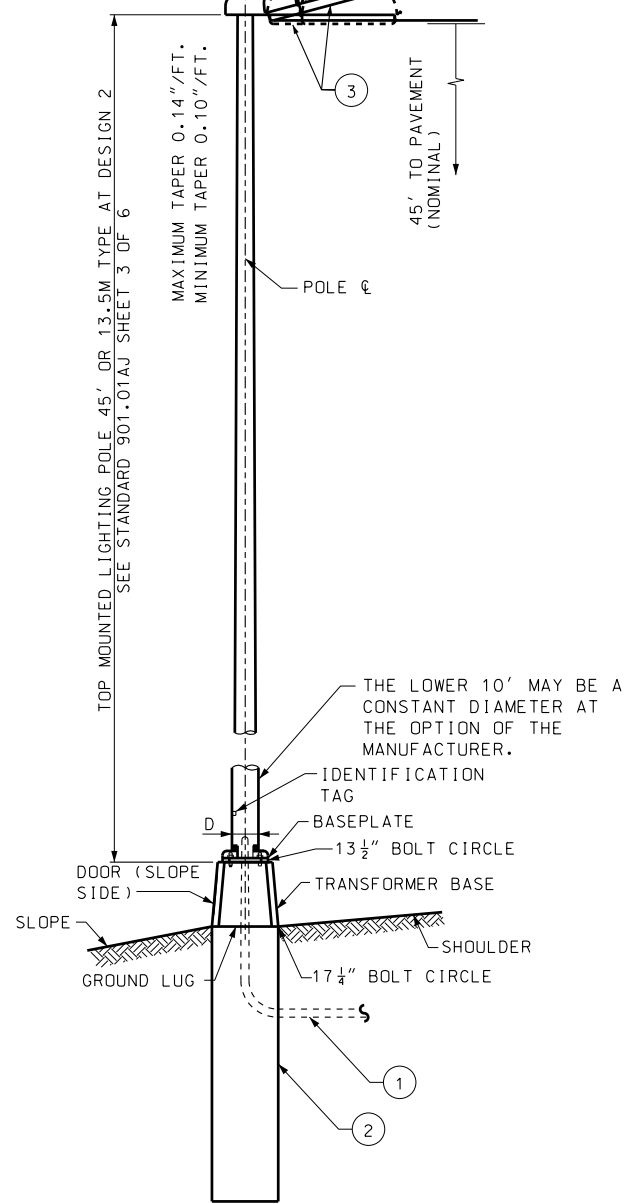
DATE	DESCRIPTION

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

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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

LOW TILT (15° TYP.)
 2" TOP MOUNTED POLE TOP (ACTUAL O.D. 2.38")
 TOP MOUNTED LED-C LUMINAIRE



TYPE AT
 (SINGLE LUMINAIRE)

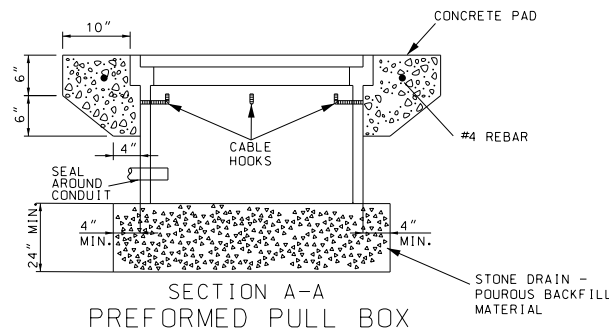
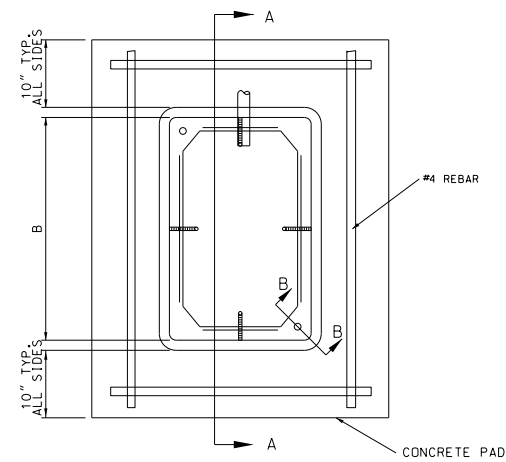
45' TOP MOUNT POLE/
 TOP MOUNTED LED-C LUMINAIRE

GENERAL NOTES:

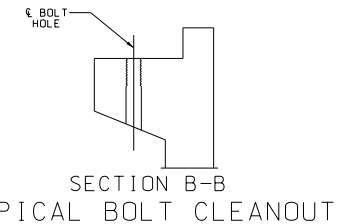
- A. HOLES SHALL BE PUNCHED ONLY FOR SPECIFIED BOLT CIRCLE.
- B. TRANSFORMER BASE SHALL BE CERTIFIED AS MEETING THE BREAKAWAY CRITERIA AND STRUCTURAL REQUIREMENTS AS SET BY THE CURRENT AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" AND MEET THE BREAKAWAY REQUIREMENTS OF NCHRP 350.
- C. TRANSFORMER BASES SHALL BE FURNISHED WITH ONE DRILLED AND TAPPED HOLE AND GROUNDING LUG FOR GROUNDING EQUIPMENT.
- D. TYPE AT POLES SHALL BE EQUIPPED WITH THE GROUNDING LUG INSIDE THE TRANSFORMER BASE. TYPE B AND MB POLES SHALL BE EQUIPPED WITH A GROUNDING LUG INSIDE THE POLE.
- E. POST SHALL BE GROUNDED FROM GROUND LUG IN POST WITH #6 AWG BARE COPPER WIRE TO CONDUIT SYSTEM. GROUND LUG SHALL BE 90° OR 180° FROM HANDHOLE.

① RIGID CONDUIT SYSTEM. WIRES SHALL BE SPLICED AT FUSED CONNECTOR IN POLE BASE. IF CABLE-CONDUIT IS SPECIFIED, CUT CABLE-CONDUIT SHEATH AWAY FROM THE CABLES WHERE CABLE-CONDUIT EXITS THE RIGID CONDUIT SYSTEM IN THE POLE BASE. (SEE MODOT STANDARD DRAWING 901.02 "TYPICAL TRANSFORMER BASE ATTACHMENT")

② CONCRETE FOUNDATION PER MODOT STANDARD DRAWING 901.01, SHEET 6 OF 6. FOUNDATION SHALL MATCH DEPTH AS REQUIRED BY POLE DESIGNS 1, 2, 3, 4 & 5.



PREFORMED PULL BOX CONCRETE PAD DETAIL



SECTION B-B
 TYPICAL BOLT CLEANOUT



Laura Anne Glaser
 NUMBER PE-2010001771

12/06/2024 8:13:19 AM
 Laura Anne Glaser - Electrical
 MO PE-2010001771

DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 54

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

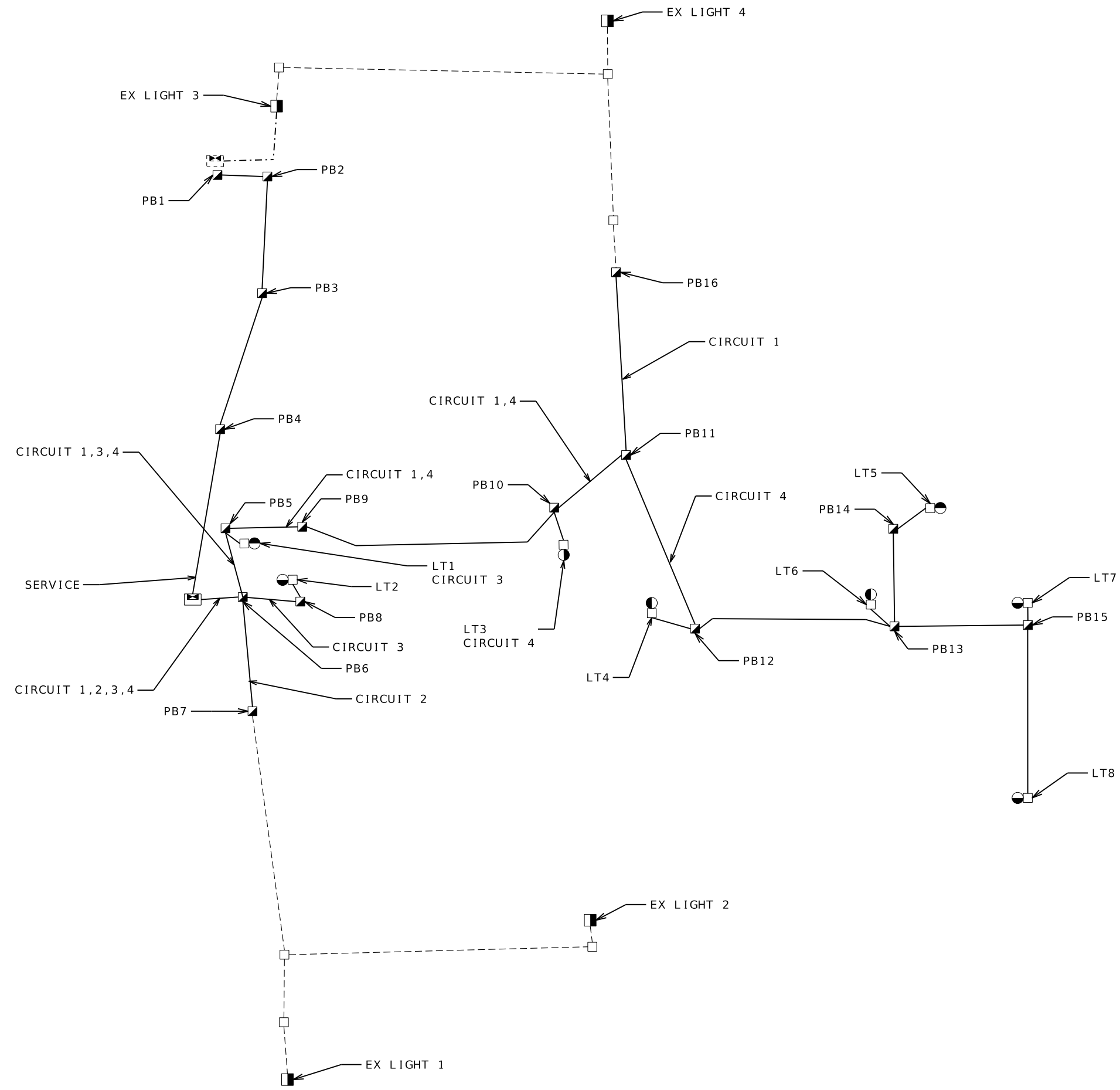
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

LIGHTING DETAIL



- ### LEGEND
- NEW LIGHT POLE
 - EXISTING LIGHT POLE TO REMAIN
 - EXISTING LIGHT POLE TO BE REMOVED
 - NEW LIGHTING CIRCUIT
 - EXISTING LIGHTING CIRCUIT TO REMAIN
 - EXISTING LIGHTING CIRCUIT TO BE REMOVED
 - NEW PULL BOX
 - EXISTING PULL BOX TO REMAIN
 - NEW LIGHTING CONTROLLER
 - EXISTING CONTROLLER TO BE REMOVED



12/06/2024 8:13:23 AM
 Laura Anne Glaser - Electrical
 MO PE-2010001771

DATE PREPARED
 6-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	55

COUNTY
 WARREN

JOB NO.
 J2S3438

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)

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

LIGHTING WIRING DIAGRAM

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



Richard S. Baum
 MO PE E-24320

DATE PREPARED
 6-DEC-2024

ROUTE A STATE MO
 DISTRICT NE SHEET NO. 56

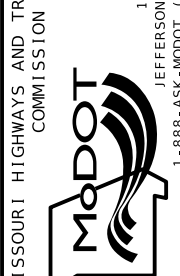
COUNTY WARREN
 JOB NO. J2S3438
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

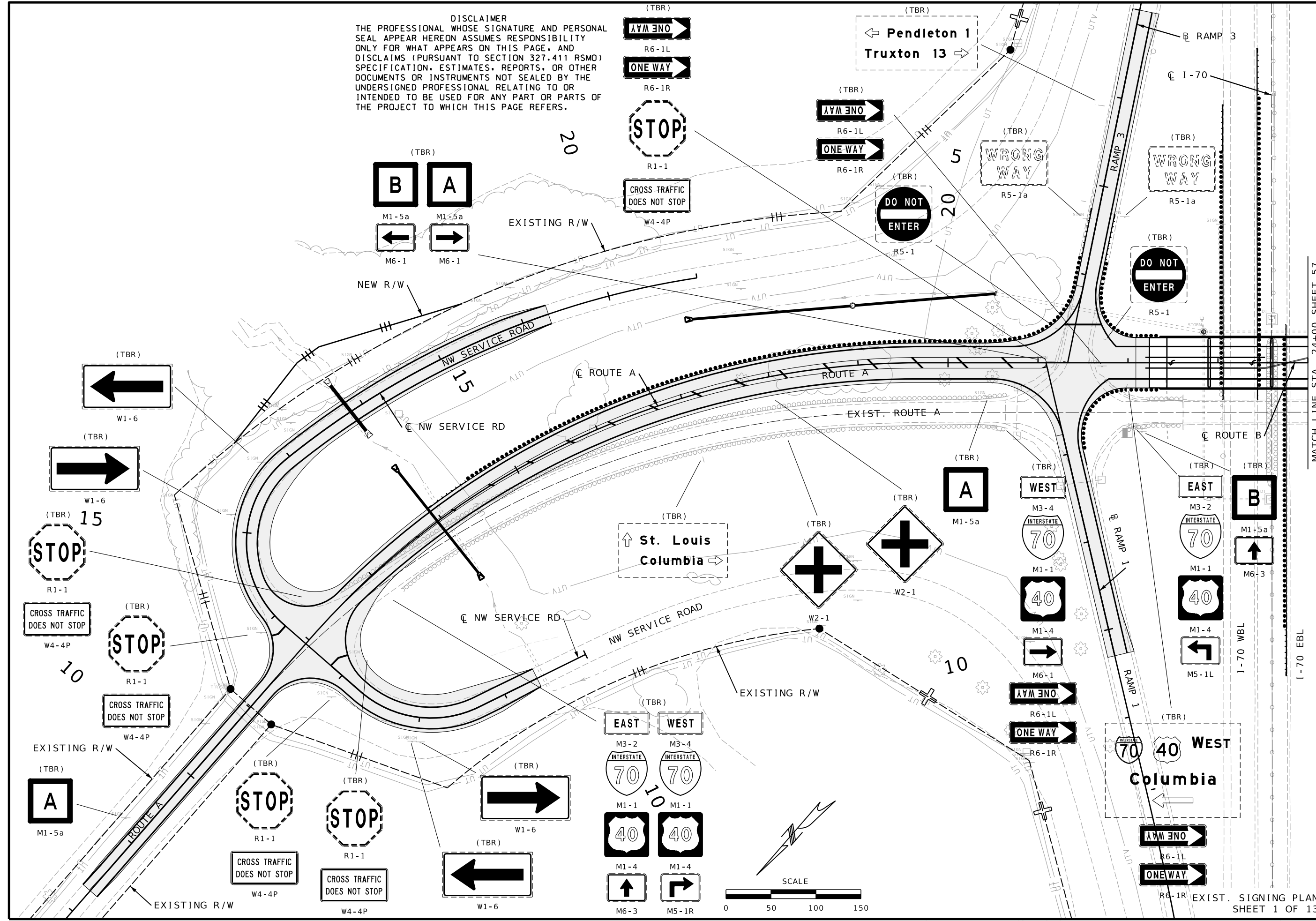
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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MATCH LINE STA. 24+00 SHEET 57

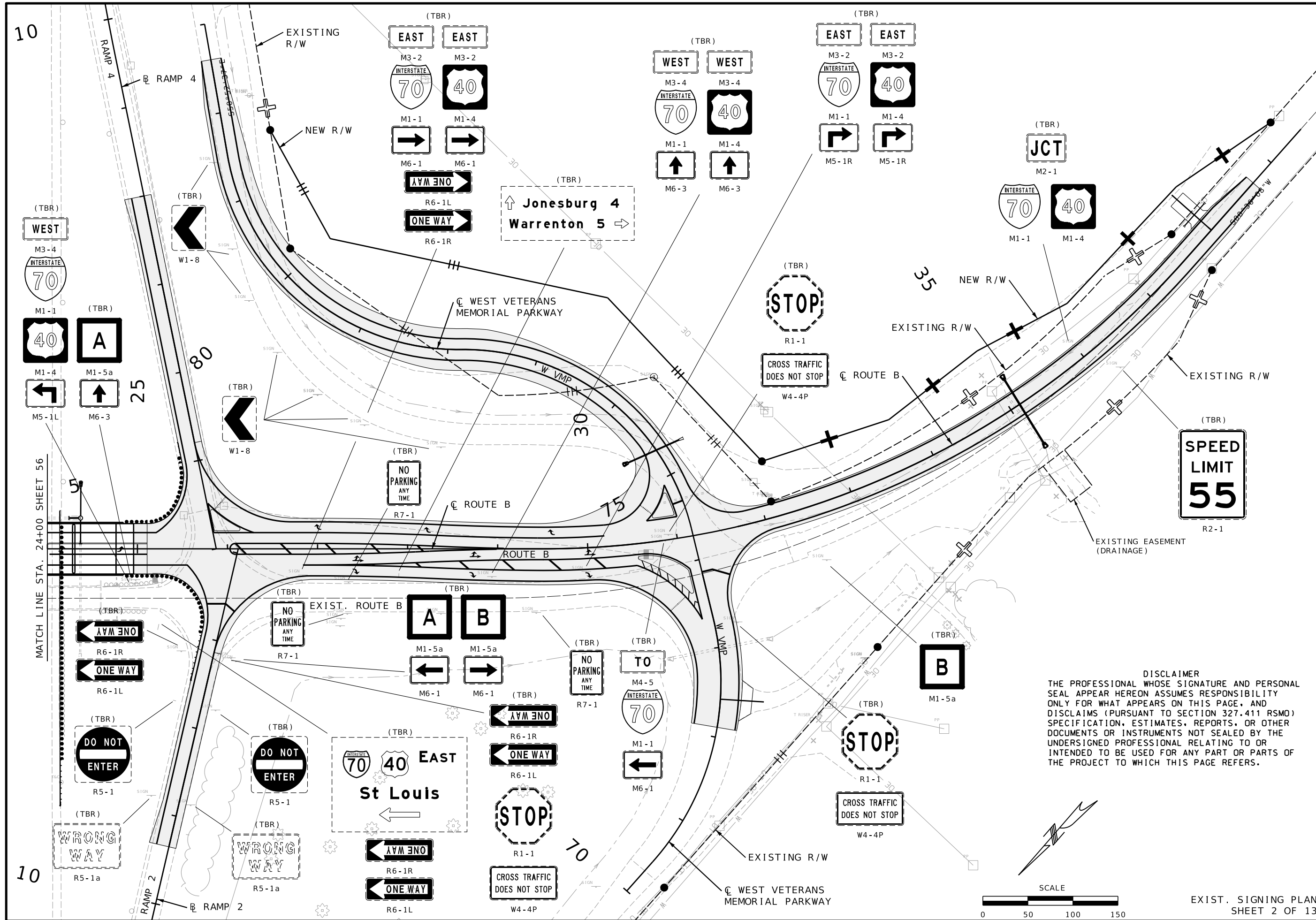
I-70 EBL

I-70 WBL

RAMP 1

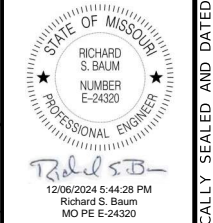
RAMP 3

EXIST. SIGNING PLAN SHEET 1 OF 13



10

10



DATE PREPARED
6-DEC-2024

ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 57

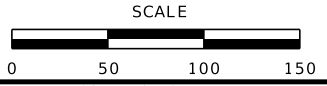
COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

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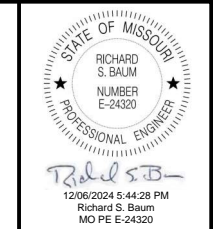
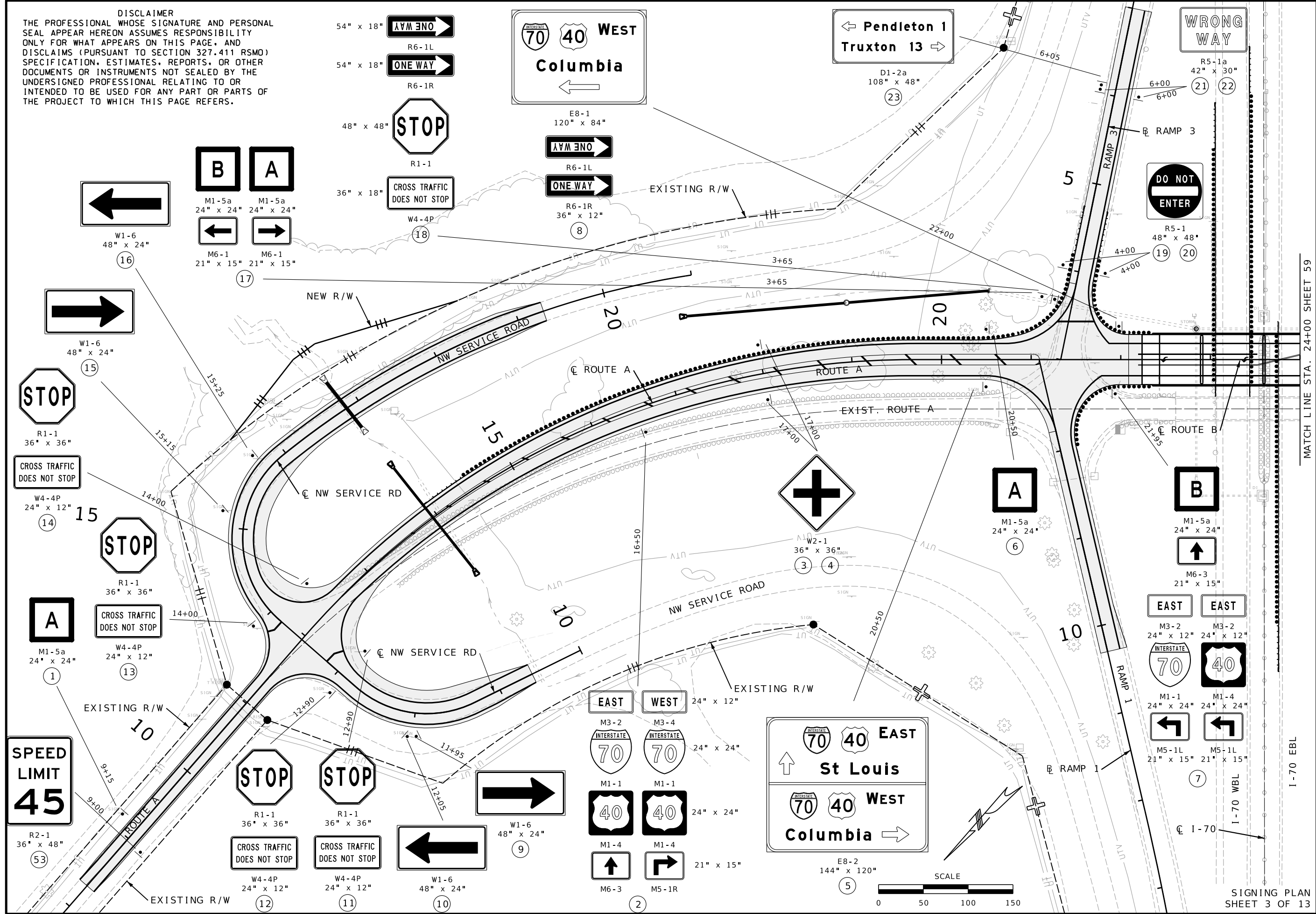


EXIST. SIGNING PLAN
SHEET 2 OF 13

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DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 58

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

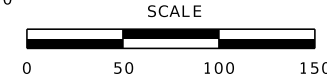
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

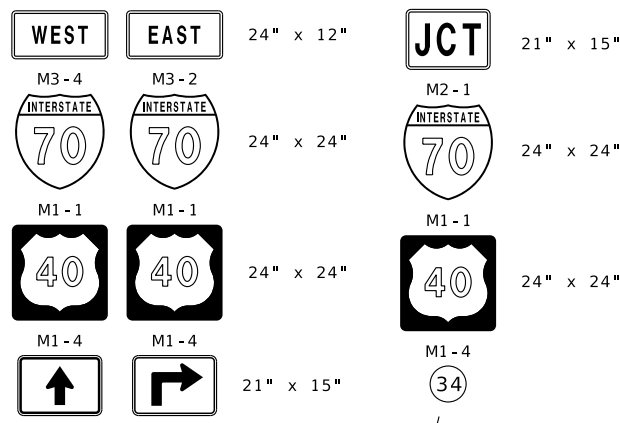
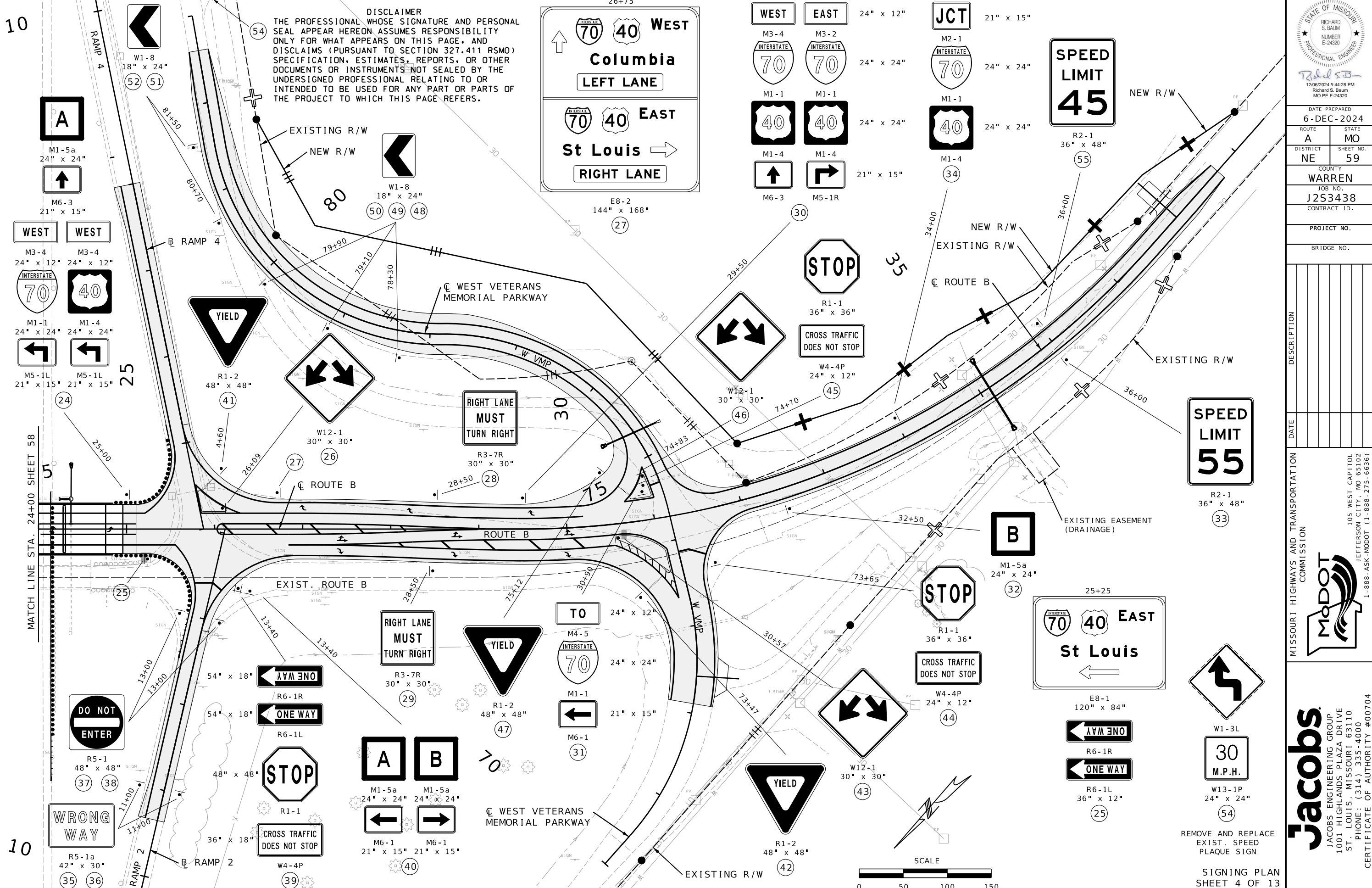
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

MATCH LINE STA. 24+00 SHEET 59

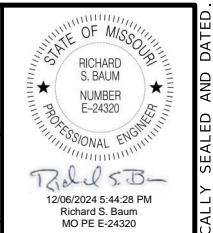
I-70 EBL

SIGNING PLAN
 SHEET 3 OF 13





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DATE PREPARED	
6-DEC-2024	
ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
NE	59
COUNTY	
WARREN	
JOB NO.	
J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

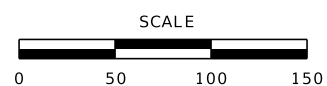
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

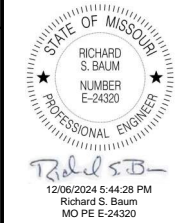
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

SIGNING PLAN
SHEET 4 OF 13



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DATE PREPARED 6-DEC-2024

ROUTE A STATE MO

DISTRICT NE SHEET NO. 60

COUNTY WARREN

JOB NO. J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

Main project data table with columns for SIGNS, CONCRETE FOOTINGS EMBEDDED, STRUCTURAL STEEL POSTS, PIPE POSTS, BACKING BARS, U-CHANNEL POST, and PERFORATED SQUARE STEEL TUBE. Includes subtotals and totals at the bottom of the grid.

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

STRUCTURAL STEEL POST AND FOOTING DATA TABLE. Includes sub-tables for POST, FOOTING, and ROUND PIPE POST AND FOOTING DATA TABLE with detailed specifications for diameter, length, weight, and footing grades.

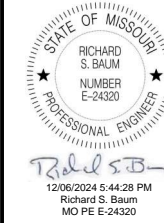
ROUND PIPE POST AND FOOTING DATA TABLE. Summary table with columns for NOM. SIZE, WEIGHT, STUB LENGTH, FOOTING, and CONCRETE.

DESCRIPTION DATE columns for tracking project items.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION logo and address: 105 WEST CAPITOL JEFFERSON CITY, MO 65102

Jacobs logo and address: JACOBS ENGINEERING GROUP 1001 HIGHLANDS PLAZA DRIVE ST. LOUIS, MISSOURI 63110

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



STANDARD SIGN ASSEMBLIES

SIGN SUMMARY

SIGN NUMBER	STATION	LOCATION	TYPE													STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET																													
			M3-2	M3-4	M1-1	M1-4	M6-3	M6-1	M5-1R	M5-1L	M1-5a	M1-5a	M4-5	M2-1	R1-1				W4-4P	R6-1R	R6-1L	SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A																						
1	9+15	ROUTE A															M3-2	4	24"x12"	8																												
2	16+50	ROUTE A	1	1	2	2	1		1								M3-4	4	24"x12"	8																												
6	20+50	ROUTE A														1	M1-1	8	24"x24"	32																												
7	21+95	ROUTE A	2		1	1	1										M1-4	7	24"x24"	28																												
8	22+00	ROUTE A															M6-3	4	21"x15"	8.8																												
																	M6-1	5	21"x15"	10.9																												
11	12+90	NWSR															M5-1R	2	21"x15"	4.4																												
12	12+90	NWSR															M5-1L	4	21"x15"	8.8																												
13	14+00	NWSR															M1-5a (RTE A)	5	24"x24"	20																												
14	14+00	NWSR															M1-5a (RTE B)	4	24"x24"	16																												
17	3+65	RAMP 3								2					1	1	M4-5	1	24"x12"	2																												
24	25+00	ROUTE B		2	1	1	1					2	1				M2-1	1	21"x15"	2.2																												
25	25+25	ROUTE B															R1-1	6	36"x36"	54																												
30	29+50	ROUTE B	1	1	2	2	1										R1-1	2	48"x48"	32																												
31	30+90	ROUTE B			1												W4-4P	6	24"x12"						12																							
32	32+50	ROUTE B															W4-4P	2	36"x18"						9																							
34	34+00	ROUTE B			1	1											R6-1R	2	36"x12"	6																												
40	13+40	RAMP 2															R6-1R	2	54"x18"	13.5																												
44	73+65	WVMP								2				1	1		R6-1L	2	36"x12"	6																												
45	74+70	WVMP															R6-1L	2	54"x18"	13.5																												
																	W2-1	2	36"x36"																													
																	W1-6	4	48"x24"																													
																	R5-1	4	48"x48"	64																												
																	R5-1a	4	42"x30"	35																												
																	W12-1	3	30"x30"						18.8																							
																	R3-7R	2	30"x30"	12.5																												
																	R2-1 (55 MPH)	1	36"x48"	12																												
																	R1-2	3	48" TRI.	20.7																												
																	W1-8	5	18"x24"																													
																	R2-1 (45 MPH)	2	36"x48"	24																												
																	W13-1P	1	24"x24"																													
																	SPECIAL SIGN 5	1	12'x10'																													
																	SPECIAL SIGN 8	1	10'x7'																													
																	SPECIAL SIGN 23	1	9'x4'																													
																	SPECIAL SIGN 25	1	10'x7'																													
																	SPECIAL SIGN 27	1	12'x14'																													
																	TOTAL			443					109																							

* ORANGE, YELLOW & YELLOW/GREEN

SIGNING SHEET 6 OF 13

D-30

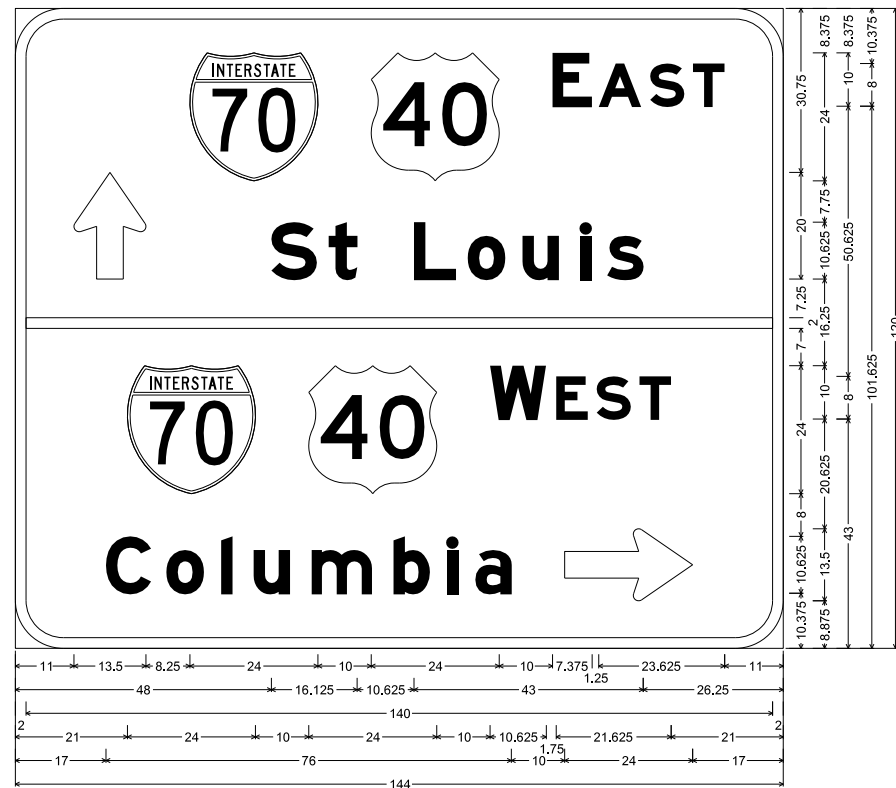
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
 Jacobs Engineering Group
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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SIGN NO.	5
STATION	20+50
ROADWAY	ROUTE A

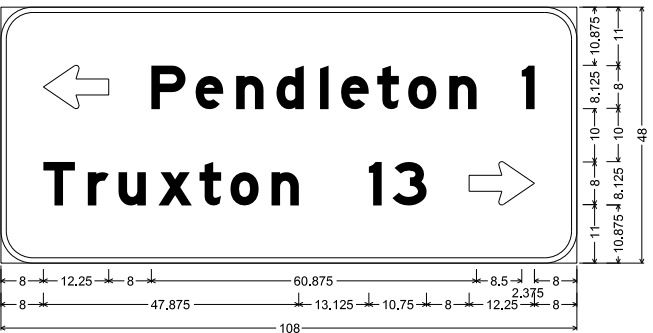
SIGN NO.	23
STATION	6+05
ROADWAY	RAMP 3

E8-2 ST-STRUCTURAL:
 9,000" Radius, 2,000" Border, White on, Green;
 Standard Arrow Custom 20,000" X 13,500" 90"; Interstate 70 12,000" C; "EAST", E Mod; "St Louis", E Mod;
 Interstate 70 12,000" C; "WEST", E Mod; "Columbia", E Mod; Standard Arrow Custom 24,000" X 13,500" 0";
 Table of letter and object lefts

↑	^W	^{ES}	^E	^A	^S	^T
11,000	32,750	66,750	100,750	109,375	119,000	127,125
S	t	L	o	u	i	s
48,000	58,750	74,750	84,875	95,125	106,000	111,000
↓						
2,000						
^W	^{ES}	^W	^E	^S	^T	
21,000	55,000	89,000	101,375	109,000	117,000	
C	o	l	u	m	b	a
17,000	28,375	38,625	44,625	55,625	70,875	81,000
					a	⇒
					86,250	103,000

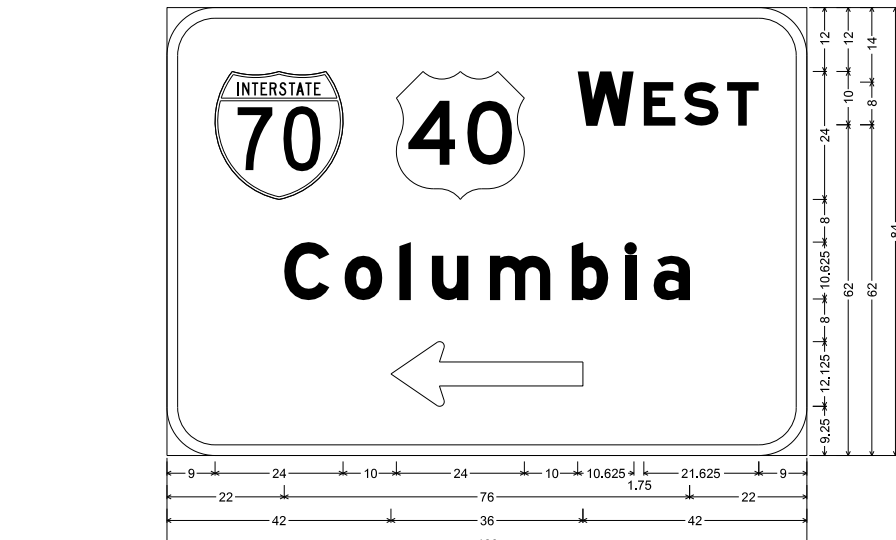
SIGN NO.	8
STATION	22+00
ROADWAY	ROUTE A

SIGN NO.	25
STATION	25+25
ROADWAY	ROUTE B



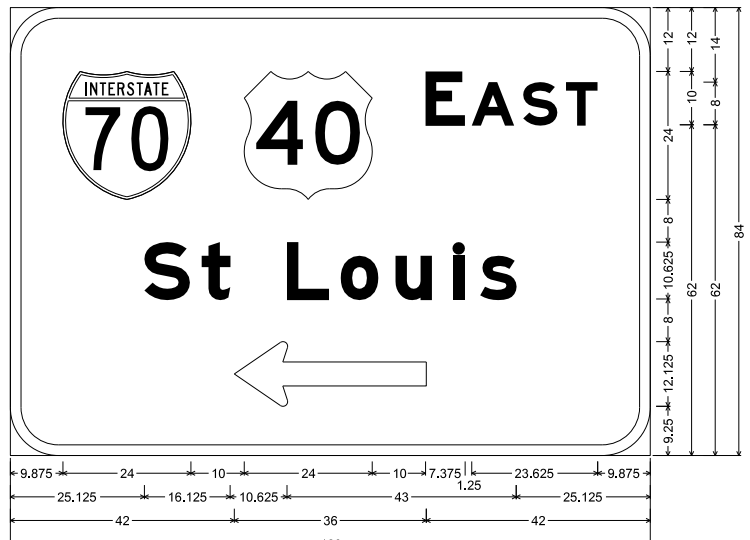
D1-2a ST-STRUCTURAL:
 6,000" Radius, 1,000" Border, White on, Green;
 Standard Arrow Custom 12,250" X 8,125" 180"; "Pendleton", E Mod; "1", E Mod;
 "Truxton", E Mod; "13", E Mod; Standard Arrow Custom 12,250" X 8,125" 0";
 Table of letter and object lefts

⇐	^P	^e	ⁿ	^d	^l	^e	^t	^o	ⁿ	^l
8,000	28,250	36,500	44,125	51,625	59,875	63,750	70,625	76,375	84,125	97,625
T	r	u	x	t	o	n	1	3	⇒	
8,000	16,250	22,000	29,500	37,250	43,000	50,750	69,000	73,375	87,750	



E8-1 ST-STRUCTURAL:
 9,000" Radius, 2,000" Border, White on, Green;
 Interstate 70 12,000" C; "WEST", E Mod; "Columbia", E Mod;
 Standard Arrow Custom 36,000" X 12,125" 180";
 Table of letter and object lefts

^W	^{ES}	^W	^E	^S	^T
9,000	43,000	77,000	89,375	97,000	105,000
C	o	l	u	m	a
22,000	33,375	43,625	49,625	60,625	75,875
					86,000
					91,250
⇐					
42,000					



E8-1 ST-STRUCTURAL:
 9,000" Radius, 2,000" Border, White on, Green;
 Interstate 70 12,000" C; "EAST", E Mod; "St Louis", E Mod;
 Standard Arrow Custom 36,000" X 12,125" 180";
 Table of letter and object lefts

^W	^{ES}	^E	^A	^S	^T
9,875	43,875	77,875	86,500	96,125	104,250
S	t	L	o	u	s
25,125	35,875	51,875	62,000	72,250	83,125
					88,125
⇐					
42,000					

SIGNING SHEET 8 OF 13

D-31



Richard S. Baum
 12/06/2024 5:44:28 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
 6-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 NE 63

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

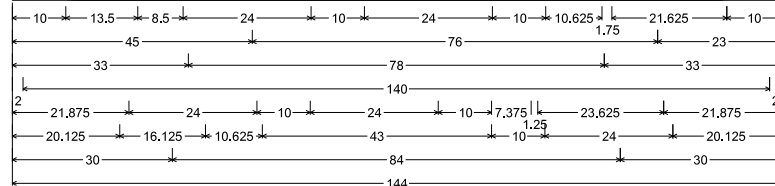
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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



SIGN NO.	27
STATION	26+75
ROADWAY	ROUTE B

SIGN NO.	
STATION	
ROADWAY	

SIGN NO.	
STATION	
ROADWAY	

SIGN NO.	
STATION	
ROADWAY	

E8-2 ST-STRUCTURAL:
 12,000" Radius, 2,000" Border, White on, Green;
 Standard Arrow Custom 20,000" X 13,500" 90"; Interstate 70 12,000" C; "WEST", E Mod; "Columbia", E Mod;
 Rounded Rectangle 1,500" Radius Yellow;
 Interstate 70 12,000" C; "EAST", E Mod; "St Louis", E Mod; Standard Arrow Custom 24,000" X 13,500" 0";
 Rounded Rectangle 1,500" Radius Yellow;

Table of letter and object lefts

φ	Ⓜ	Ⓢ	W	E	S	T
10,000	32,000	66,000	100,000	112,375	120,000	128,000
C	o	I	u	m	b	a
45,000	58,375	66,625	72,625	83,625	98,875	109,000
114,250						

33,000

2,000

21,875

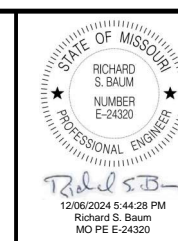
20,125

Ⓜ	Ⓢ	E	A	S	T
55,875	89,875	98,500	108,125	116,250	
s	t	L	o	u	i
30,875	46,875	57,000	67,250	78,125	83,125
99,875					

30,000

SIGNING
SHEET 9 OF 13

D-31



DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 64

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

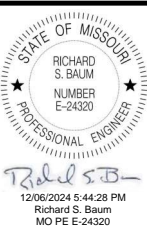
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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



DATE PREPARED
6-DEC-2024
ROUTE
A
STATE
MO
DISTRICT
NE
SHEET NO.
65
COUNTY
WARREN
JOB NO.
J253438
CONTRACT ID.

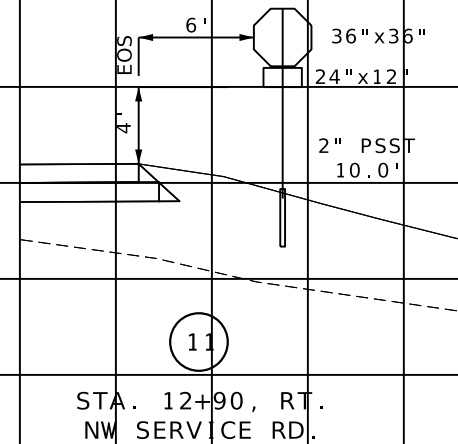
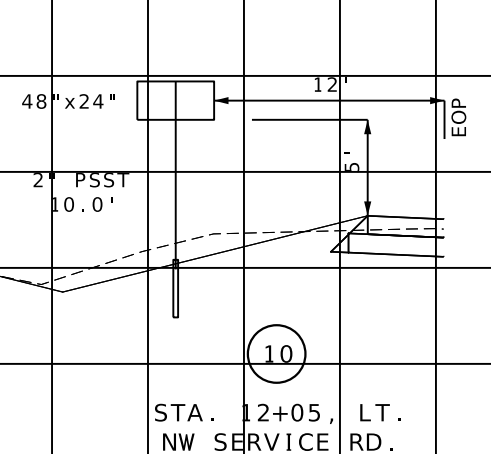
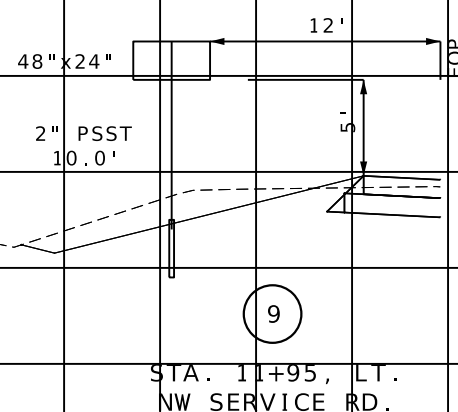
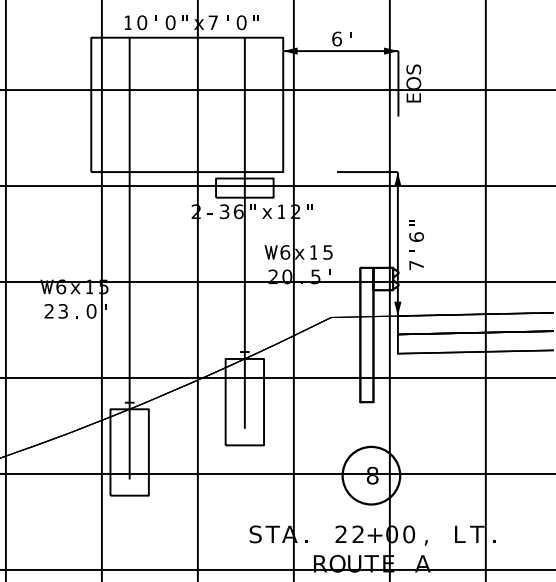
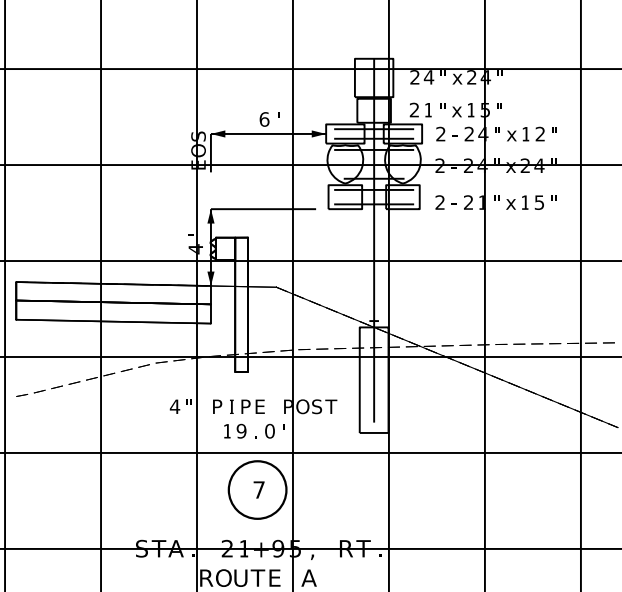
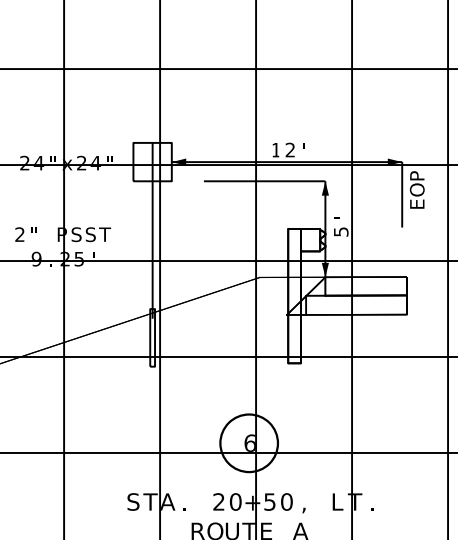
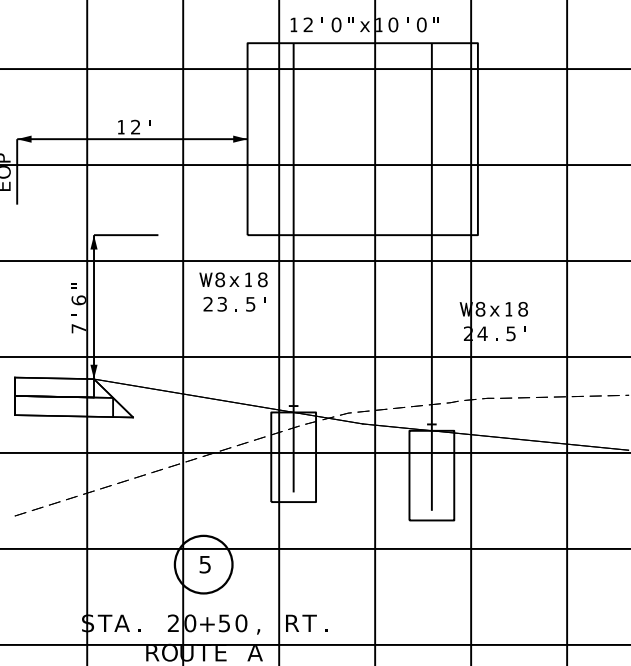
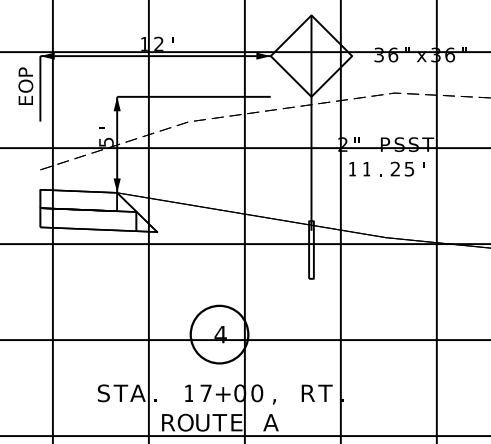
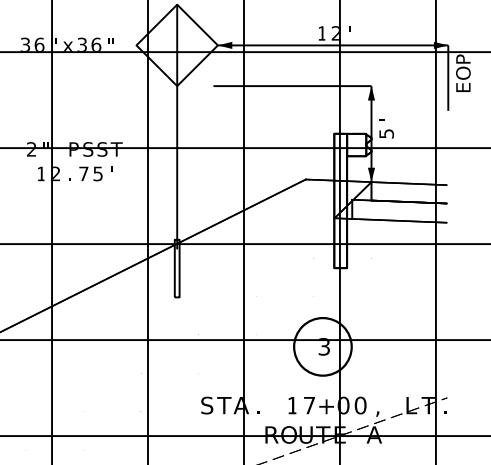
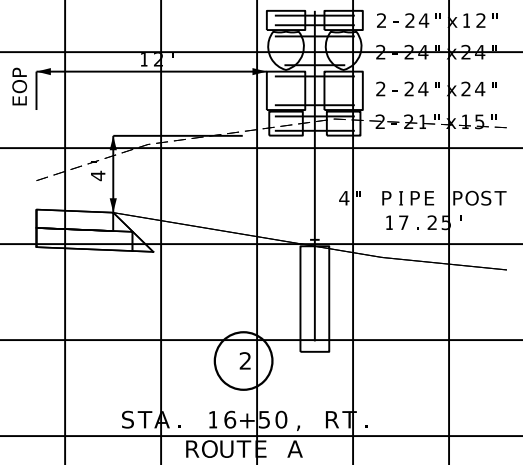
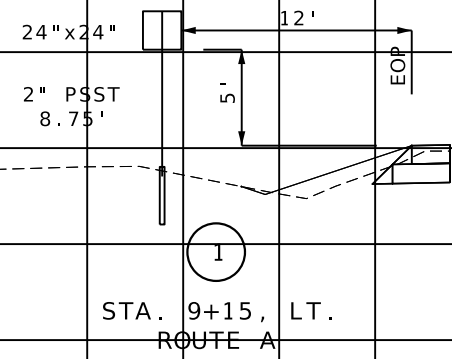
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

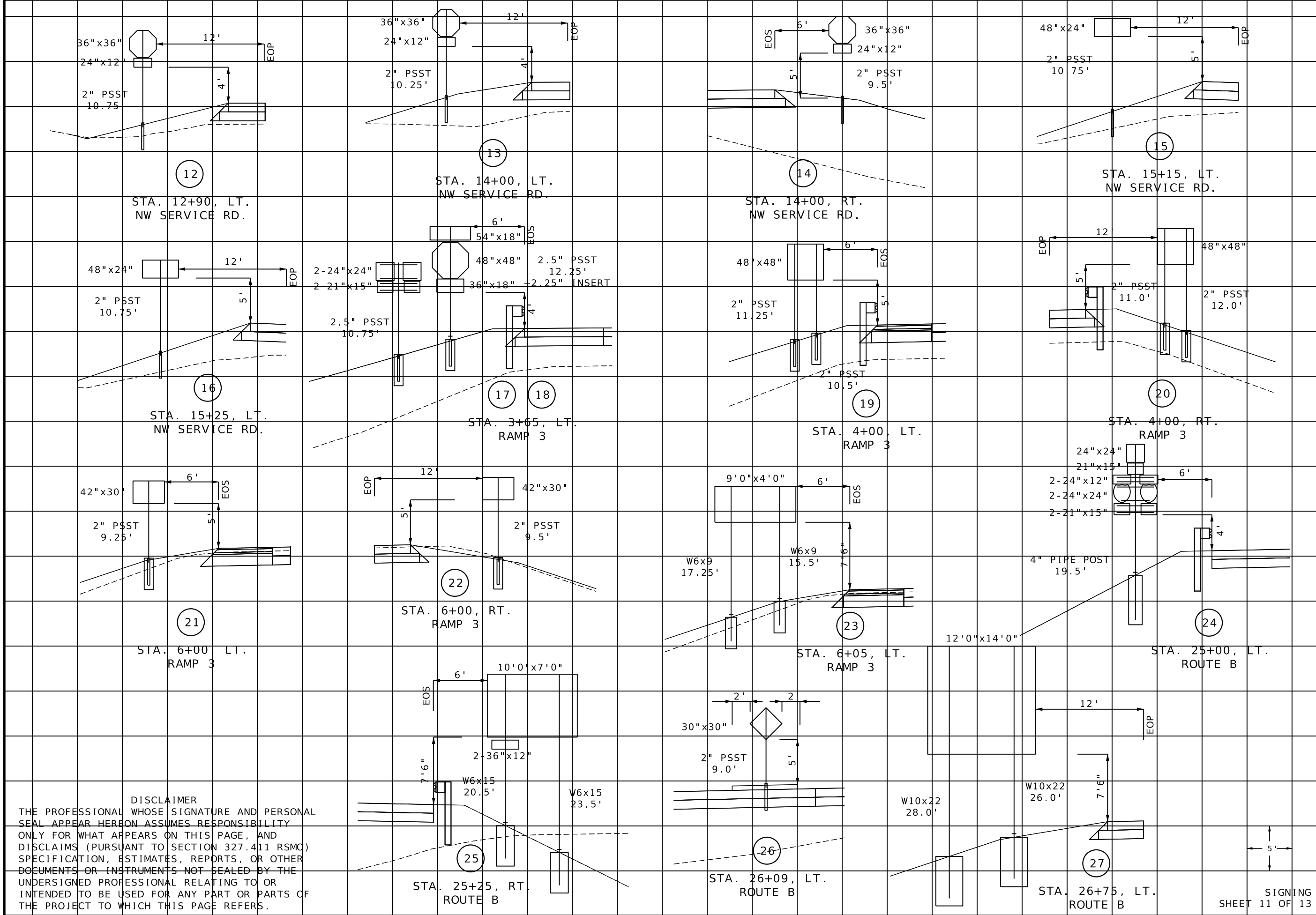
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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

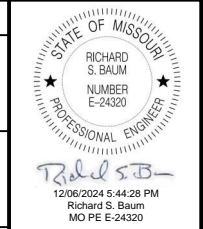


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SIGNING
SHEET 10 OF 13



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DATE PREPARED
 6-DEC-2024

ROUTE A STATE MO

DISTRICT NE SHEET NO. 66

COUNTY WARREN

JOB NO. J2S3438

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)

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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



Richard S. Baum
Professional Engineer
E-24320

12/06/2024 5:44:28 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 67

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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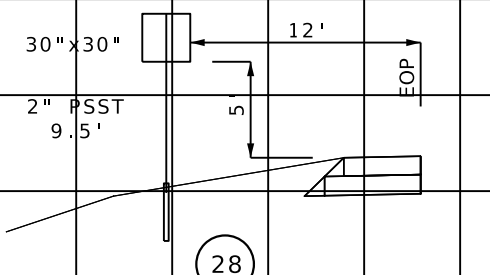
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DATE

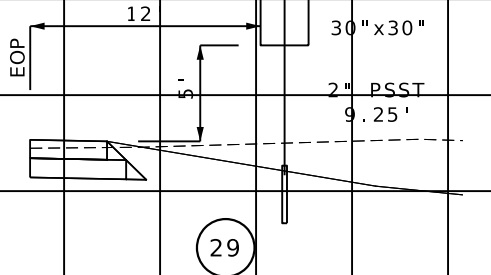
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DATE



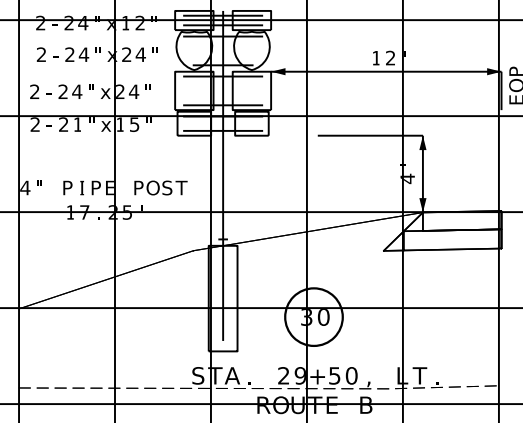
28

STA. 28+50, LT.
ROUTE B



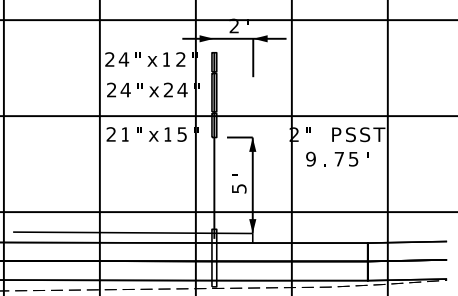
29

STA. 28+50, RT.
ROUTE B



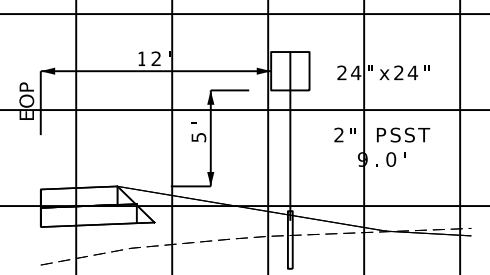
30

STA. 29+50, LT.
ROUTE B



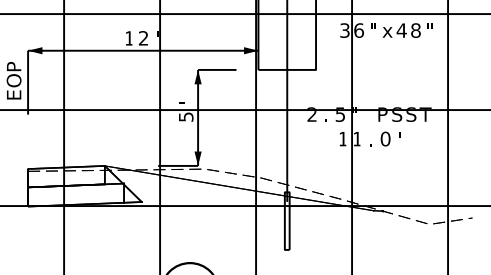
31

STA. 30+90, LT.
ROUTE B



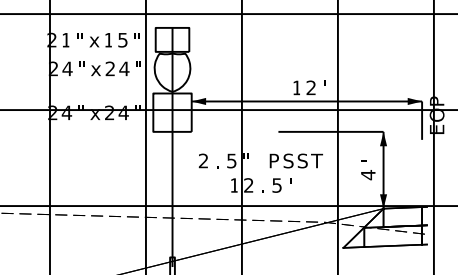
32

STA. 32+50, RT.
ROUTE B



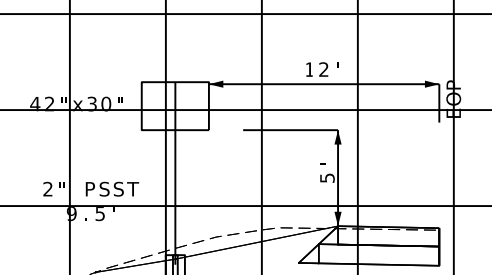
33

STA. 36+00, RT.
ROUTE B



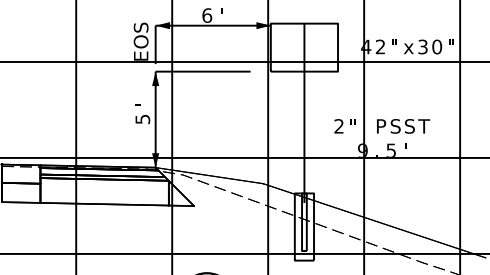
34

STA. 34+00, LT.
ROUTE B



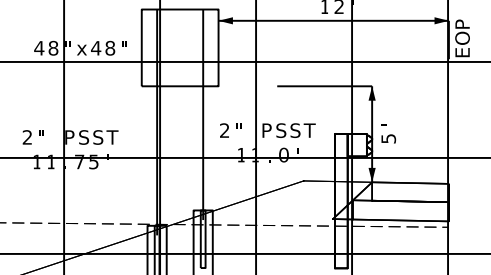
35

STA. 11+00, LT.
RAMP 2



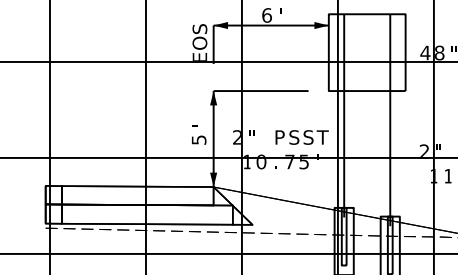
36

STA. 11+00, RT.
RAMP 2



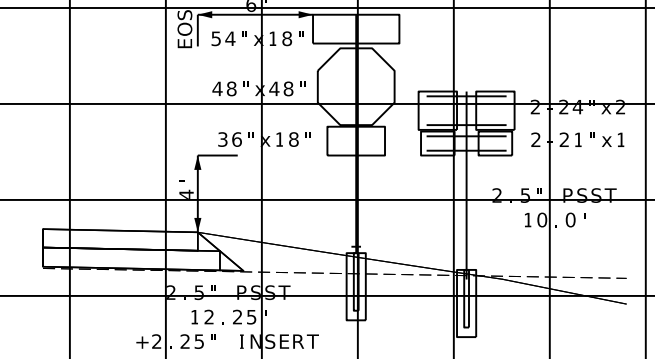
37

STA. 13+00, LT.
RAMP 2



38

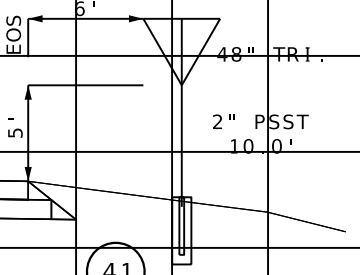
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RAMP 2



39

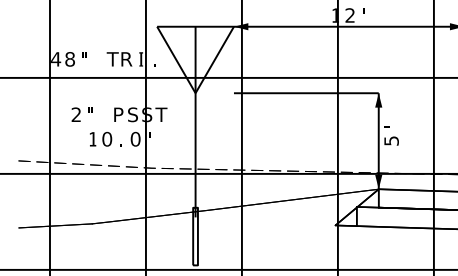
STA. 13+40, RT.
RAMP 2

40



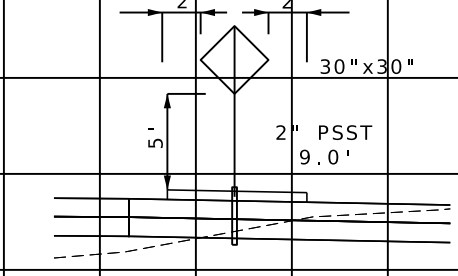
41

STA. 4+60, RT.
RAMP 4



42

STA. 73+47, LT.
W. VETERANS MEMORIAL PKWY.



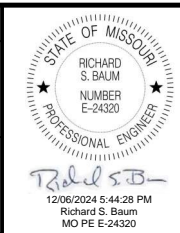
43

STA. 30+57, RT.
ROUTE B

SIGNING
SHEET 12 OF 13

DISCLAIMER
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SEAL APPEAR HEREON ASSUMES RESPONSIBILITY
ONLY FOR WHAT APPEARS ON THIS PAGE, AND
DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO)
SPECIFICATION, ESTIMATES, REPORTS, OR OTHER
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UNDERSIGNED PROFESSIONAL RELATING TO OR
INTENDED TO BE USED FOR ANY PART OR PARTS OF
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DATE PREPARED
6-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
NE 68

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

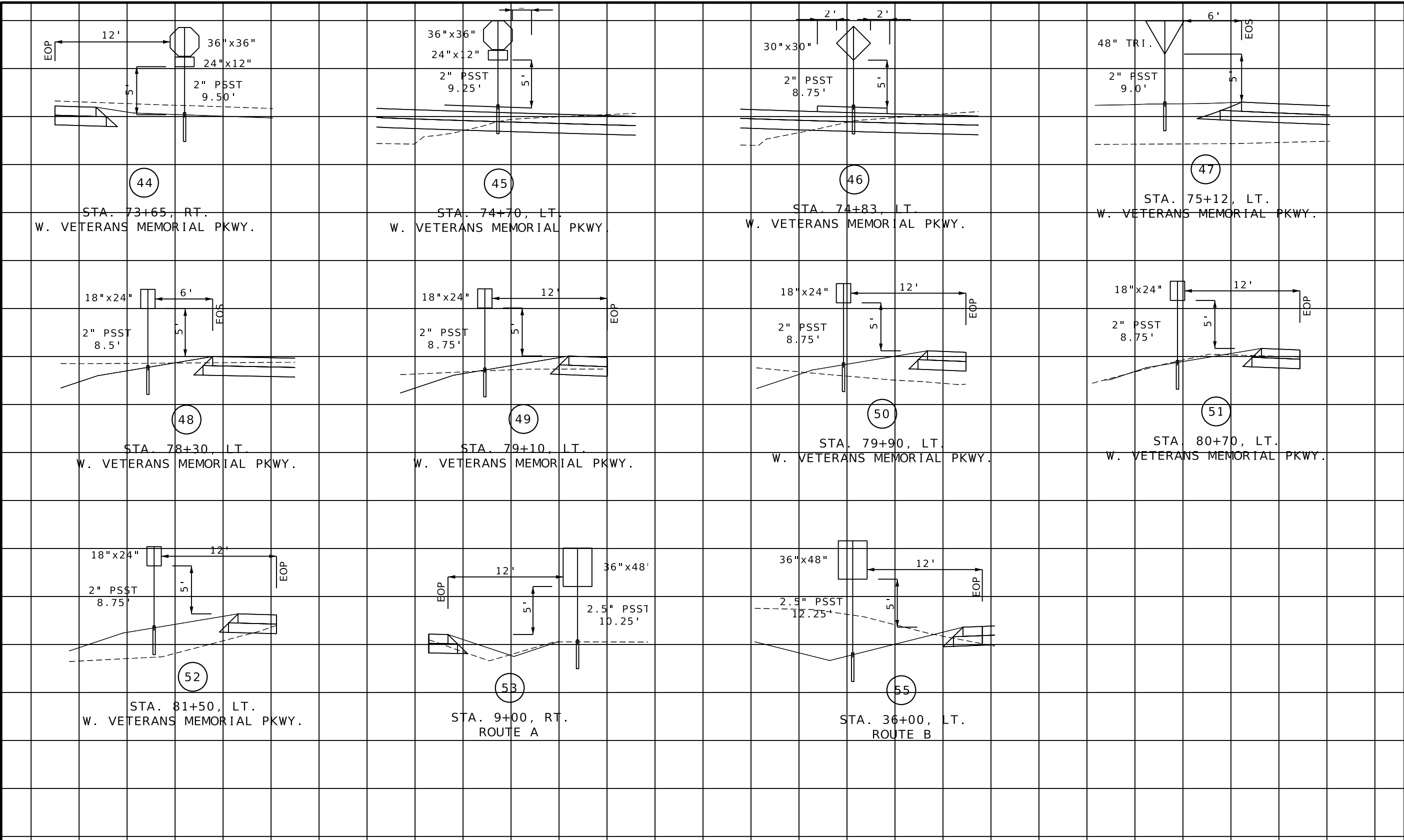
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

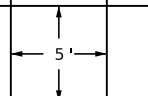
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



DISCLAIMER

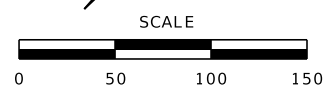
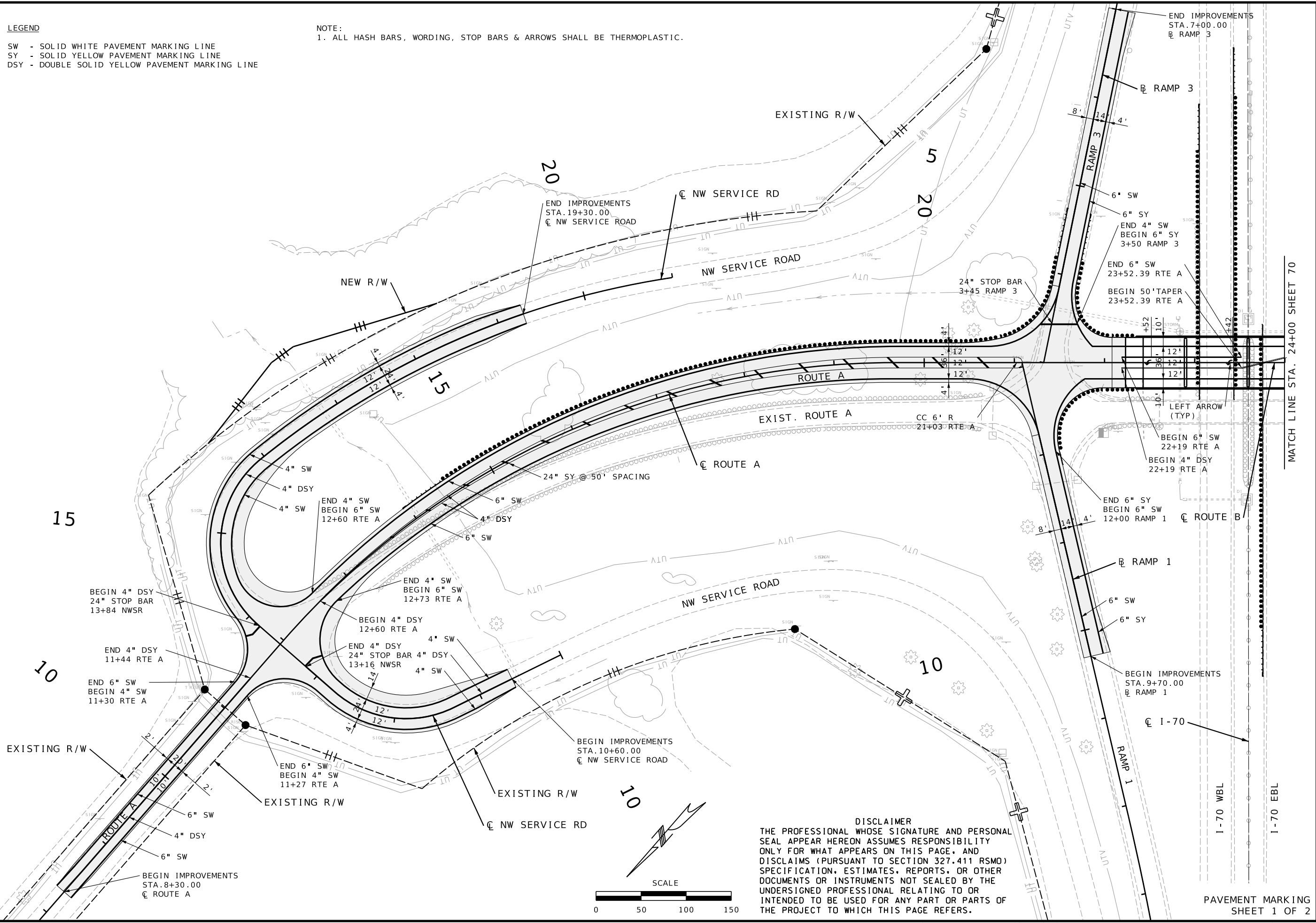
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SIGNING
SHEET 13 OF 13

LEGEND
 SW - SOLID WHITE PAVEMENT MARKING LINE
 SY - SOLID YELLOW PAVEMENT MARKING LINE
 DSY - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE

NOTE:
 1. ALL HASH BARS, WORDING, STOP BARS & ARROWS SHALL BE THERMOPLASTIC.



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END IMPROVEMENTS
 STA. 7+00.00
 @ RAMP 3

END IMPROVEMENTS
 STA. 19+30.00
 @ NW SERVICE ROAD

6" SW
 6" SY
 END 4" SW
 BEGIN 6" SY
 3+50 RAMP 3
 END 6" SW
 23+52.39 RTE A
 BEGIN 50' TAPER
 23+52.39 RTE A

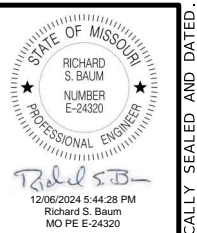
BEGIN 6" SW
 22+19 RTE A
 BEGIN 4" DSY
 22+19 RTE A

END 6" SY
 BEGIN 6" SW
 12+00 RAMP 1 @ ROUTE B

BEGIN IMPROVEMENTS
 STA. 9+70.00
 @ RAMP 1

MATCH LINE STA. 24+00 SHEET 70

PAVEMENT MARKING
 SHEET 1 OF 2



DATE PREPARED
 6-DEC-2024
 ROUTE A STATE MO
 DISTRICT NE SHEET NO. 69
 COUNTY WARREN
 JOB NO. J2S3438
 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)

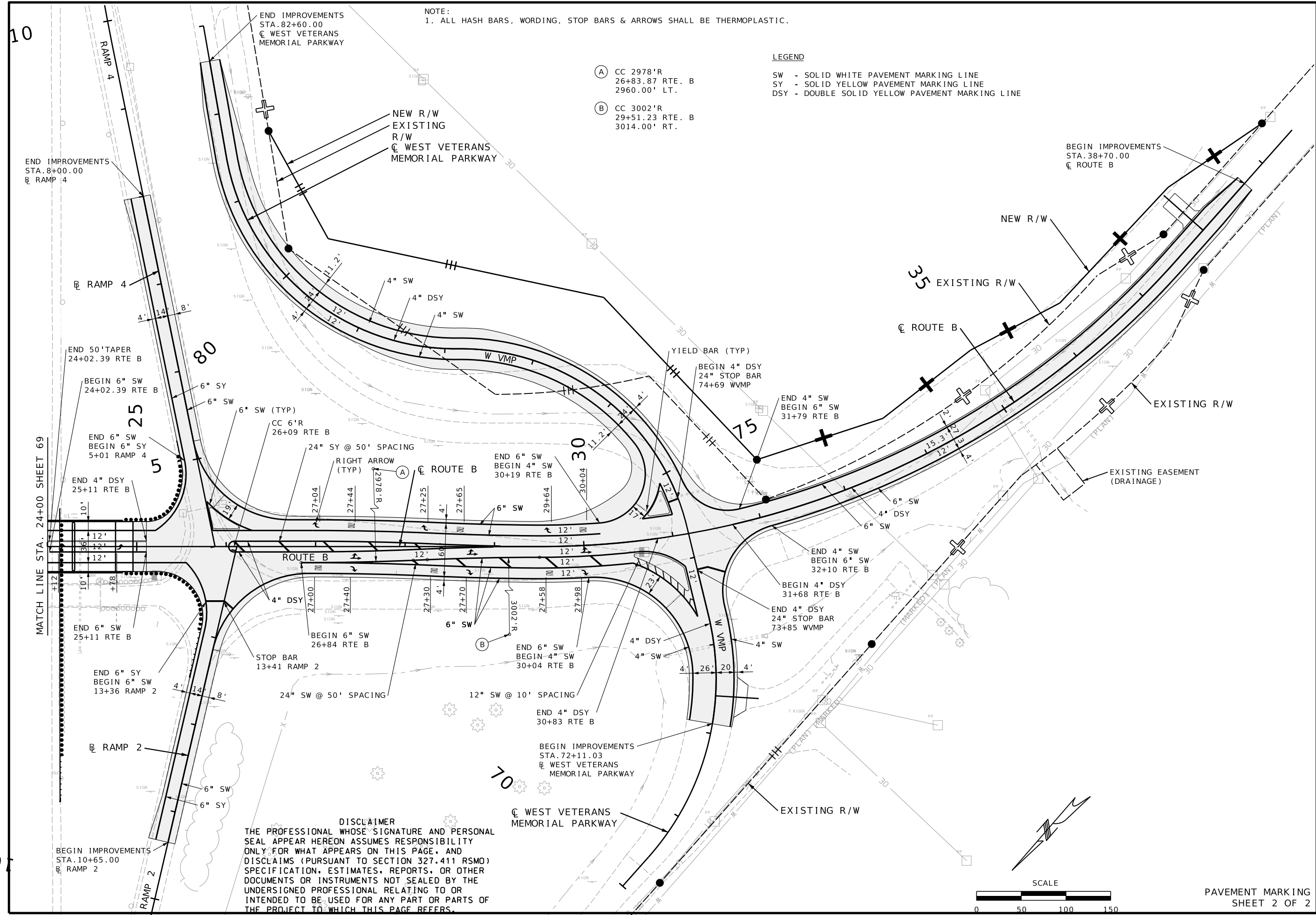
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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

NOTE:
1. ALL HASH BARS, WORDING, STOP BARS & ARROWS SHALL BE THERMOPLASTIC.

- (A) CC 2978'R
26+83.87 RTE. B
2960.00' LT.
- (B) CC 3002'R
29+51.23 RTE. B
3014.00' RT.

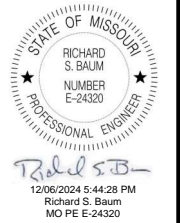
LEGEND
SW - SOLID WHITE PAVEMENT MARKING LINE
SY - SOLID YELLOW PAVEMENT MARKING LINE
DSY - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE



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PAVEMENT MARKING SHEET 2 OF 2



DATE PREPARED	6-DEC-2024
ROUTE	A
STATE	MO
DISTRICT	NE
SHEET NO.	70
COUNTY	WARREN
JOB NO.	J2S3438
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

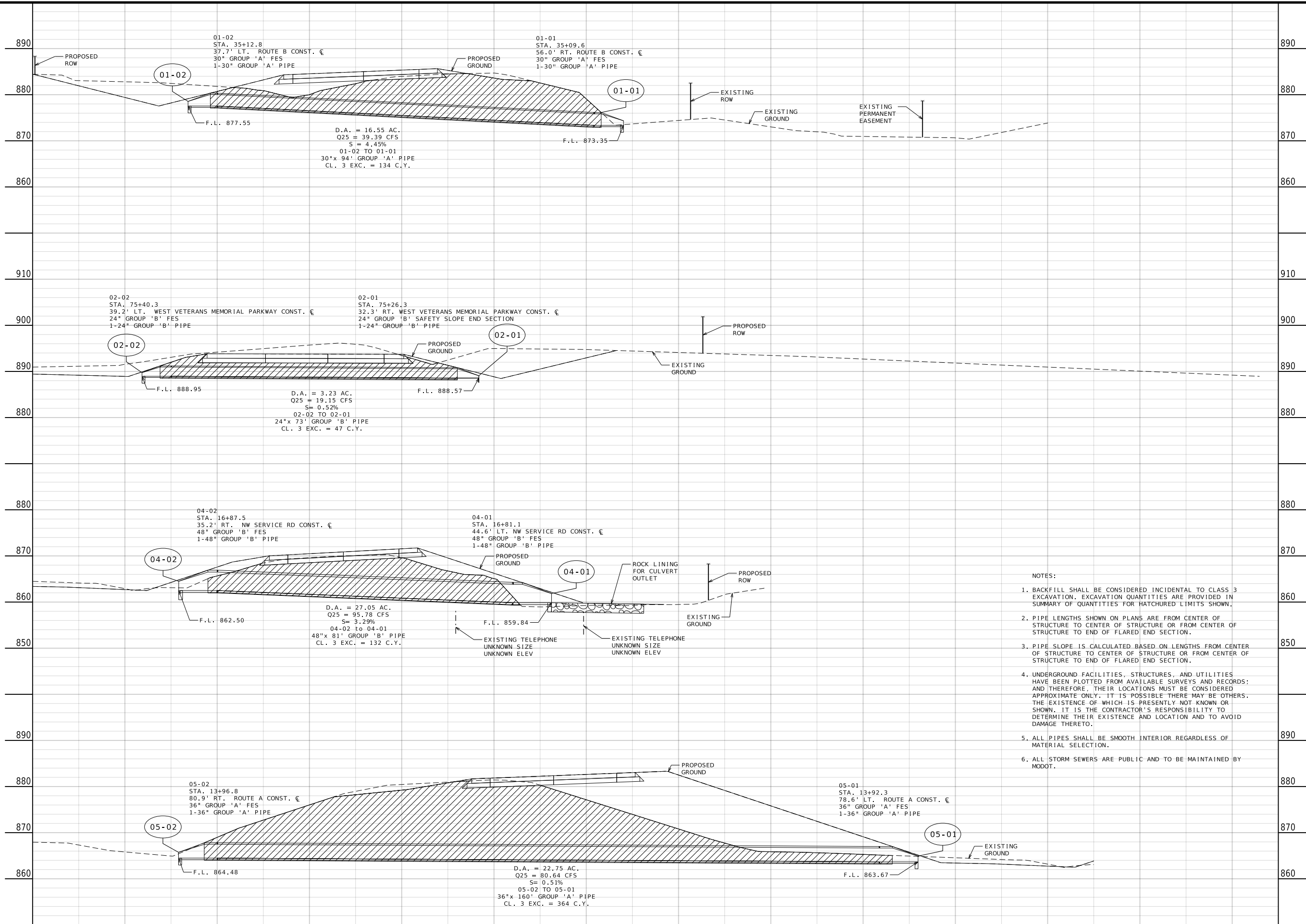
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

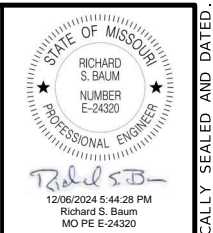
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



- NOTES:
- BACKFILL SHALL BE CONSIDERED INCIDENTAL TO CLASS 3 EXCAVATION. EXCAVATION QUANTITIES ARE PROVIDED IN SUMMARY OF QUANTITIES FOR HATCHURED LIMITS SHOWN.
 - PIPE LENGTHS SHOWN ON PLANS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
 - PIPE SLOPE IS CALCULATED BASED ON LENGTHS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
 - UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND LOCATION AND TO AVOID DAMAGE THERETO.
 - ALL PIPES SHALL BE SMOOTH INTERIOR REGARDLESS OF MATERIAL SELECTION.
 - ALL STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.



DATE PREPARED
6-DEC-2024

ROUTE
A

STATE
MO

DISTRICT
NE

SHEET NO.
71

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

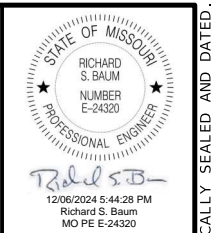
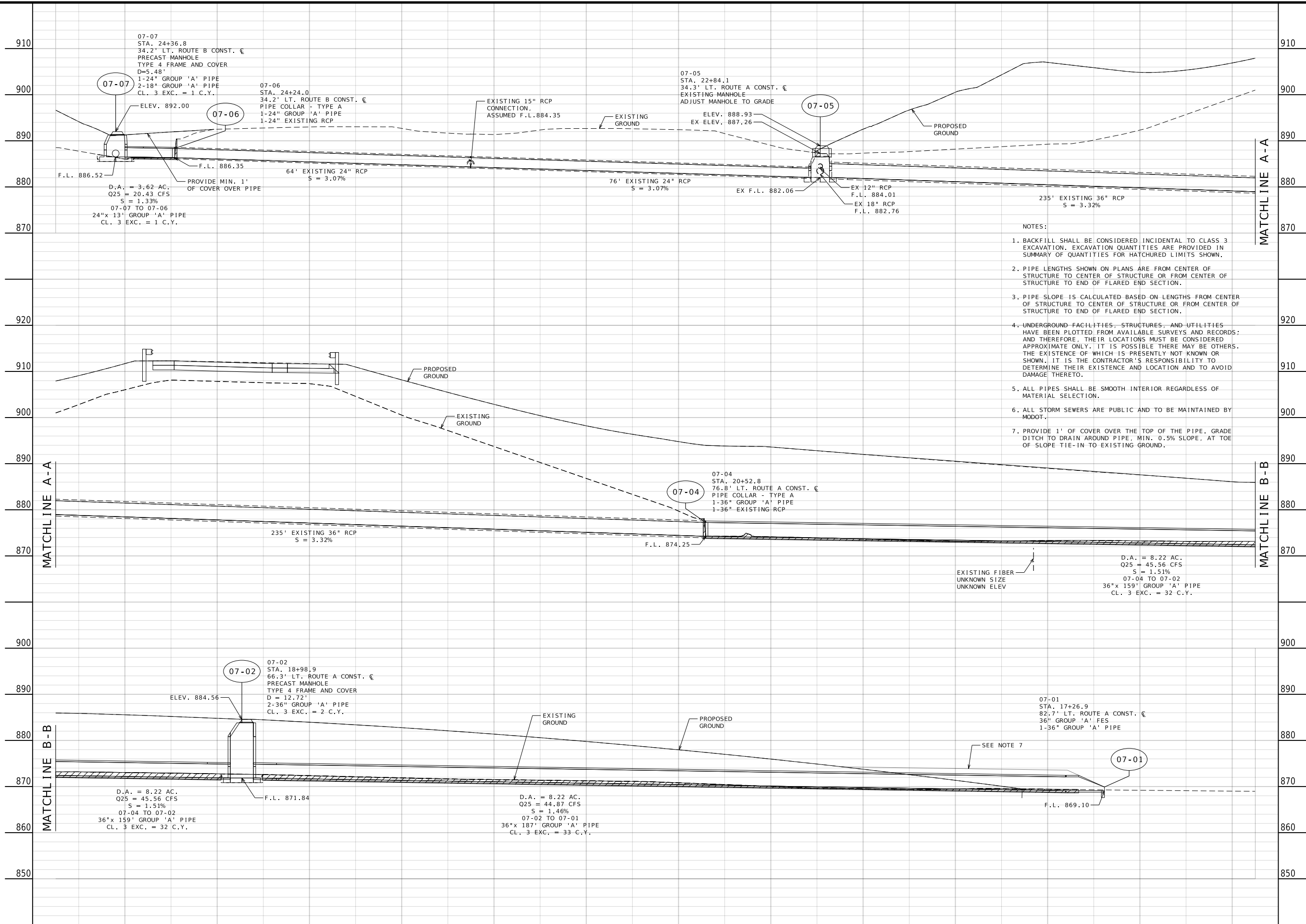
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 355-4000
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DATE PREPARED
6-DEC-2024

ROUTE
A

DISTRICT
NE

STATE
MO

SHEET NO.
72

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

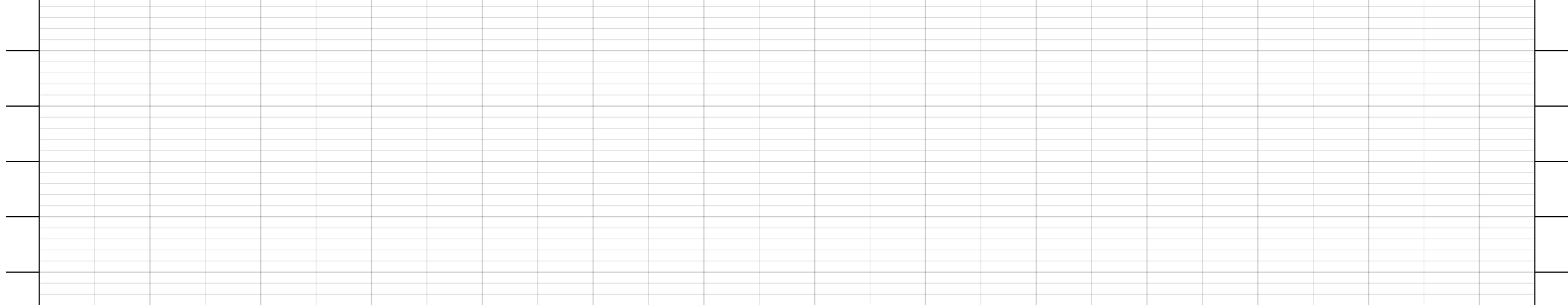
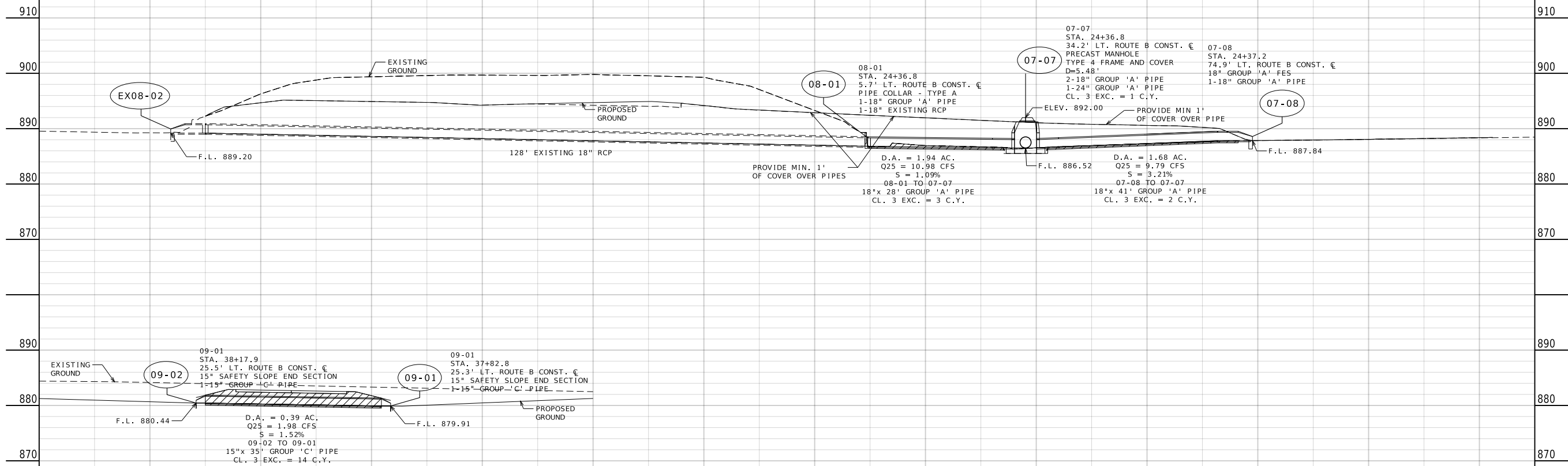
BRIDGE NO.

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

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 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



CHANNEL LINING DETAILS							
DITCH ID	WIDTH-RT	WIDTH-LT	BOTTOM WIDTH	BEGIN LOCATION	END LOCATION	LINING TYPE	NOTES
02-01-3	6.6	6.6	V-DITCH	W VMP STA 75+23, RT	ROUTE B STA 34+61, LT	TYPE 1 TURF REINFORCEMENT MAT	PROVIDE MAT TO TOP OF THE SLOPE LIMITS
02-01-2	6.6	VARIES, SEE NOTE	V-DITCH	ROUTE B STA 34+61, LT	ROUTE B STA 35+13, LT	TYPE 1 TURF REINFORCEMENT MAT	PROVIDE MAT TO TOP OF THE SLOPE LIMITS
07-01-5	VARIES, SEE NOTE	6.6	V-DITCH	ROUTE B STA 35+65, LT	ROUTE B STA 35+13, LT	TYPE 1 TURF REINFORCEMENT MAT	PROVIDE MAT TO TOP OF THE SLOPE LIMITS
03-02-1	10.5	10.5	V-DITCH	ROUTE B STA 29+54, RT	W VMP STA 72+88, LT	TYPE 2 ROCK DITCH LINER	
04-01-2	4.5	4.5	4	NW SERVICE RD STA 19+30, LT	NW SERVICE RD STA 18+58, LT	TYPE 1 TURF REINFORCEMENT MAT	
04-01-1	4.5	4.5	4	NW SERVICE RD STA 18+58, LT	NW SERVICE RD STA 16+87, LT	TYPE 3 ROCK DITCH LINER	
04-01-3	4.5	4.5	V-DITCH	NW SERVICE RD STA 14+33, LT	NW SERVICE RD STA 16+75, LT	TYPE 3 ROCK DITCH LINER	
04-02-5	10	4.5	V-DITCH	RAMP 3 STA 6+59, LT	RAMP 3 STA 4+48, LT	TYPE 2 ROCK DITCH LINER	
04-02-4	10	0 / 4.5, SEE NOTE	V-DITCH	RAMP 3 STA 4+48, LT	ROUTE A STA 19+69, LT	TYPE 3 ROCK DITCH LINER	TRIM ROCK LINER TO ROCK FILL
04-02-3	10	0, SEE NOTE	V-DITCH	ROUTE A STA 19+69, LT	ROUTE A STA 17+15, LT	TYPE 2 ROCK DITCH LINER	TRIM ROCK LINER TO ROCK FILL; TRANSITION TO 04-02-2 WIDTH BETWEEN 17+60 AND 17+15
04-02-2	23	0, SEE NOTE	0, SEE NOTE	ROUTE A STA 17+15, LT	ROUTE A STA 16+00, LT	TYPE 2 ROCK DITCH LINER	TRIM ROCK LINER TO ROCK FILL; BOTTOM WIDTH CONSIDERED IN WIDTH-RT; SEE ROADWAY CROSS SECTIONS FOR DITCH DETAILS
04-02-1	5.25	5.25	VARIES, SEE NOTE	ROUTE A STA 16+00, LT	ROUTE A STA 13+95, LT	TYPE 2 ROCK DITCH LINER	SEE ROADWAY CROSS SECTIONS FOR DITCH DETAILS
06-02-1	5	5	V-DITCH	ROUTE A STA 8+30, RT	NW SERVICE RD STA 10+53, LT	TYPE 1 TURF REINFORCEMENT MAT	
EX06-02-3	5	5	V-DITCH	NW SERVICE RD STA 10+53, LT	N. 1095817.88, E. 614221.72	TYPE 1 TURF REINFORCEMENT MAT	

NOTE: WIDTH DIRECTION IS FACING DOWNSTREAM ALONG THE FLOWLINE OF THE DITCH. SEE ROADWAY PLANS FOR ADDITIONAL DITCH DETAILS.

ROCK LINING FOR CULVERT OUTLET			
OUTLET ID	LENGTH	WIDTH	DEPTH
01-01	63	7	1
02-01	11	6	1
04-01	20	12	2
05-01	42	9	1.5
07-01	18	9	1.5
09-01	12	4	1

- NOTES:
- BACKFILL SHALL BE CONSIDERED INCIDENTAL TO CLASS 3 EXCAVATION. EXCAVATION QUANTITIES ARE PROVIDED IN SUMMARY OF QUANTITIES FOR HATCHURED LIMITS SHOWN.
 - PIPE LENGTHS SHOWN ON PLANS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
 - PIPE SLOPE IS CALCULATED BASED ON LENGTHS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
 - UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND LOCATION AND TO AVOID DAMAGE THERETO.
 - ALL PIPES SHALL BE SMOOTH INTERIOR REGARDLESS OF MATERIAL SELECTION.
 - ALL STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.



Richard S. Baum
Professional Engineer
12/06/2024 5:44:28 PM
MO PE E-24320

DATE PREPARED 6-DEC-2024	
ROUTE A	STATE MO
DISTRICT NE	SHEET NO. 73
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-4000
CERTIFICATE OF AUTHORITY #00704

(45.3' - 69.5' - 69.5' - 45.3') PRESTRESSED CONCRETE NU-GIRDER SPANS (NO SKEW)

SEC/SUR 14 TWP 47 N RGE 3 W



RODNEY D. RILEY
12/12/2024 6:32:01 PM
Rodney D. Riley, PE
MO-028267

DATE PREPARED
12-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
BR 1

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

JACOBS ENGINEERING GROUP

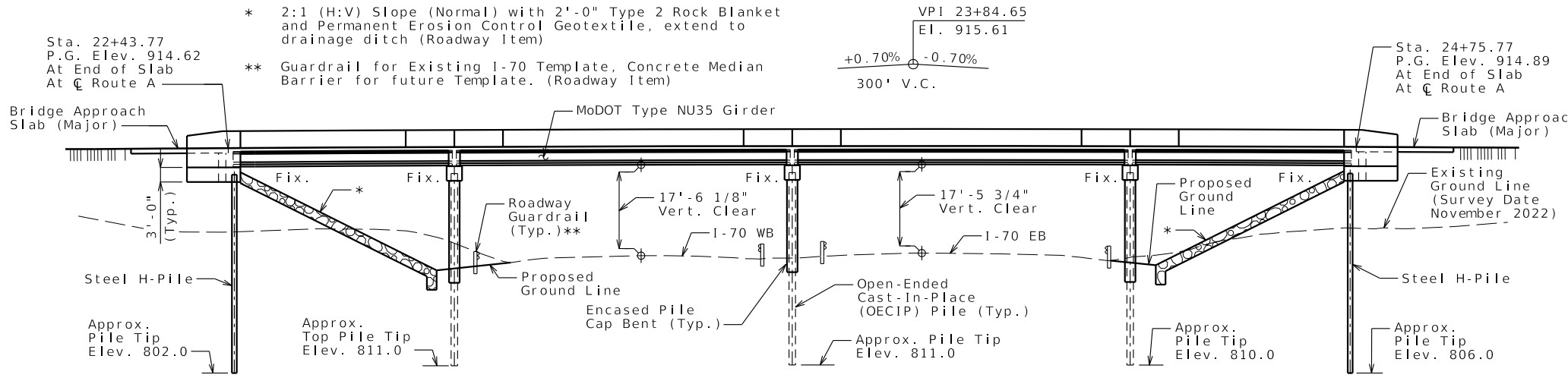
1001 HIGHLANDS PLAZA DR. WEST SUITE 400

ST. LOUIS, MISSOURI 63110

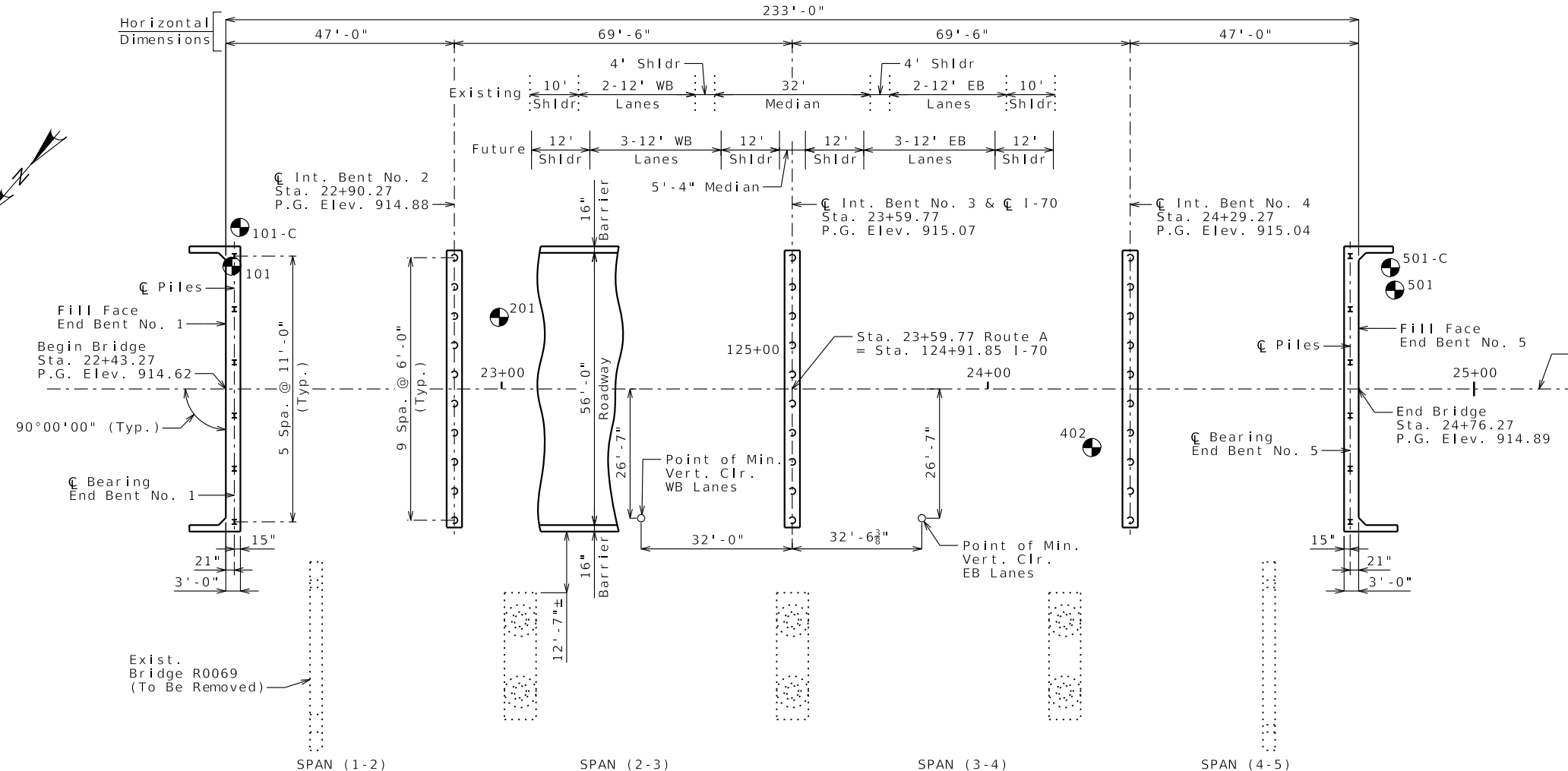
PHONE: (314) 385-4000

CERTIFICATION AUTHORITY

#00704



ELEVATION



PLAN

● 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 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 No. 32 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.
 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 end bents before any piles are driven for any bents falling within the embankment section.

B.M. - ELEVATION = 911.85
 CUT CROSS, WEST END
 WINGWALL AT SOUTHEAST
 CORNER ON ROUTE A
 BRIDGE (R0069) OVER I-70

BRIDGE: ROUTE A OVER I-70

ROUTE A FROM ROUTE W TO ROUTE 94
 ABOUT 6.4 MILES SOUTH OF ROUTE W
 BEG. STA. 22+43.27

Detailed July 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 1 of 32

Estimated Quantities				
Item		Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	115		115
Removal of Bridges (R0069)	lump sum			1
Bridge Approach Slab (Major)	sq. yard		249	249
Galvanized Structural Steel Piles (12 in.)	linear foot	1,266		1,266
Galvanized Cast-In-Place Concrete Piles (16 in.)	linear foot	2,950		2,950
Dynamic Pile Testing	each	5		5
Pre-bore for Piling	linear foot	216		216
Pile Point Reinforcement	each	42		42
Class B Concrete (Substructure)	cu. yard	366.3		366.3
Type D Barrier	linear foot		498	498
Slab on Concrete NU-Girder	sq. yard	1,512		1,512
NU 35, Prestressed Concrete NU-Girder	linear foot		1,143	1,143
Conduit System on Structure	lump sum		1	1
Reinforcing Steel (Epoxy Coated)	pound	20,340		20,340
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum			1
Vertical Drain at End Bents	each			2
Plain Neoprene Bearing Pad	each		10	10
Laminated Neoprene Bearing Pad	each		30	30

Cost of L4x4 ASTM A709 Grade 36 HP pile anchors and 3/4-inch diameter ASTM F325 Type 1 Plain bolts, complete in place, will be considered completely covered by the contract unit price for Galvanized Structural Steel Piles (12 in.).

All concrete above the construction joint in the end bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

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

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Concrete NU-Girder.

All reinforcement in cast-in-place pile at intermediate bent is included in the substructure quantities.

Foundation Data							
Type	Design Data	Bent Number					
		1	2	3	4	5	
Load Bearing Pile	Pile Type and Size	HP 12x53	OECIP 16"	OECIP 16"	OECIP 16"	HP 12x53	
	Number	ea	6	10	10	10	6
	Approximate Length Per Each	ft	107	98	98	99	104
	Pile Point Reinforcement	ea	6	10	10	10	6
	Min. Galvanized Penetration (Elev.)	ft	887	866	869	869	887
	Minimum Tip Penetration (Elev.)	ft	802	811	811	810	806
	Criteria for Min. Tip Penetration		Anticipated	Anticipated	Anticipated	Anticipated	Anticipated
	Downdrag Load (DD)	kip	70	-	-	-	63
	Pile Driving Verification Method		DT	DT	DT	DT	DT
	Resistance Factor		0.65	0.65	0.65	0.65	0.65
	Minimum Nominal Axial Compressive Resistance	kip	503	443	443	443	503

OECIP = Open Ended Cast-In-Place Concrete Pile

DT = Dynamic Testing

DD = Downdrag Load Per Pile

Minimum Nominal Axial Compressive Resistance = $\frac{\text{Maximum Factored Loads}}{\text{Resistance Factor}} + \frac{\text{Factored Downdrag Load}}{\text{Resistance Factor}} + \text{Side Resistance in Downdrag Zone}$

Manufactured pile point reinforcement shall be used on all piles in this structure.

Prebore for piles at Bents No. 1 and 5 to elevations 888.0 and 891.0, respectively.

All Piles shall be galvanized down to the minimum galvanized penetration (elevation).

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

The contractor shall make every effort to achieve the minimum tip penetration (elevation) shown on the plans for all piles and achieve the minimum axial compressive resistance which needs to be verified by the specified field verification method.

Review all borings for subsurface driving conditions and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702.

Detailed July 2024
Checked Oct. 2024

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

Sheet No. 2 of 32

GENERAL NOTES AND QUANTITIES

pw://jacobs-us-va-pw.bentley.com:jacobs-us-va-pw-04/Documents/F3X00900 - 1-70 High Hill RR Reali/30 WIP/J2S3438/Bridge/Sheets/B_A9374_002_J2S3438_Notes-01.dgn

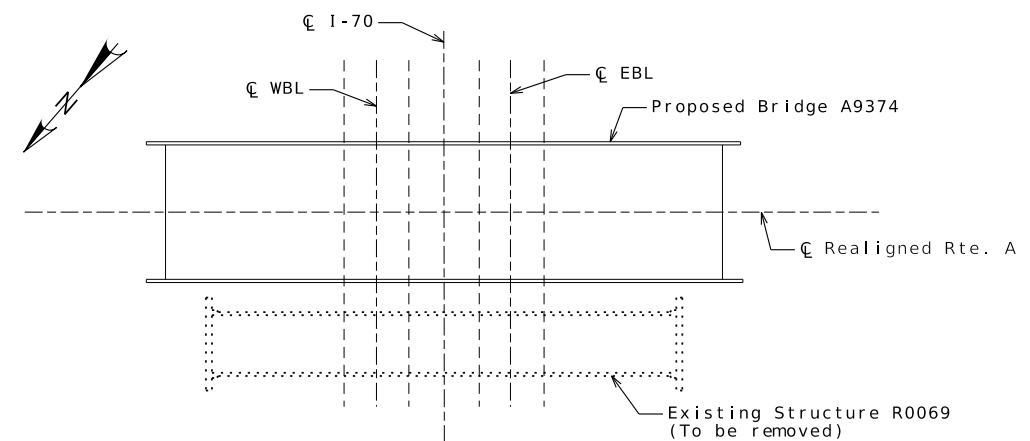
Estimated Quantities for Slab on Concrete NU-Girder	
Item	Total
Class B-2 Concrete	cu. yard 483
Reinforcing Steel (Epoxy Coated)	pound 96,140

The table of Estimated Quantities for Slab on Concrete NU-Girder represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for prestressed panels, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in 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.

Class B-2 Concrete quantity is based on minimum top flange thickness and minimum joint material thickness.

The prestressed panel quantities are not included in the table of Estimated Quantities for Slab on Concrete NU-Girder.



LOCATION SKETCH



12/12/2024 6:33:14 PM
Rodney D. Riley, PE
MO-028287

DATE PREPARED
12-DEC-2024

ROUTE
A MO

DISTRICT
BR 2

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA, DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 386-4000
 CERTIFICATE NO. #00704

17:57 12-DEC-2024

General Notes:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
 2011 AASHTO Guide Specifications for LRFD Seismic Bridge Design (2nd Ed.) and 2014 Interim Revisions (Seismic Details)
 Seismic Design Category = B
 Design earthquake response spectral acceleration coefficient at 1.0 second period, $SD1 = 0.165g$
 Acceleration Coefficient (effective peak ground acceleration coefficient) $As = 0.133g$

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 Stress:

Class B Concrete (Substructure)	$f'c = 3,000 \text{ psi}$
Class B-2 Concrete (Superstructure, except Prestressed Girders and Barrier)	$f'c = 4,000 \text{ psi}$
Class B-1 Concrete (Barrier)	$f'c = 4,000 \text{ psi}$
Reinforcing Steel (ASTM A615 Grade 60)	$fy = 60,000 \text{ psi}$
Structural Steel HP Pile (ASTM A709 Grade 50)	$fy = 50,000 \text{ psi}$
Welded or seamless steel shell (pipe) (ASTM A252 Grade 3 Modified)	$fy = 50,000 \text{ psi}$

For precast prestressed panel stresses, see Sheet No. 20.
 For prestressed girder stresses, see Sheets No. 14 thru 17.

Neoprene Pads:

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

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown

Traffic Handling:

Vertical clearance for Route I-70 traffic during construction shall be 15'-6" minimum over a 24'-0" wide horizontal opening of the roadway in each direction.

Structure to be closed during construction. Traffic to be maintained on existing structure during roadway construction. See roadway plans for traffic control.

Concrete Protective Coatings:

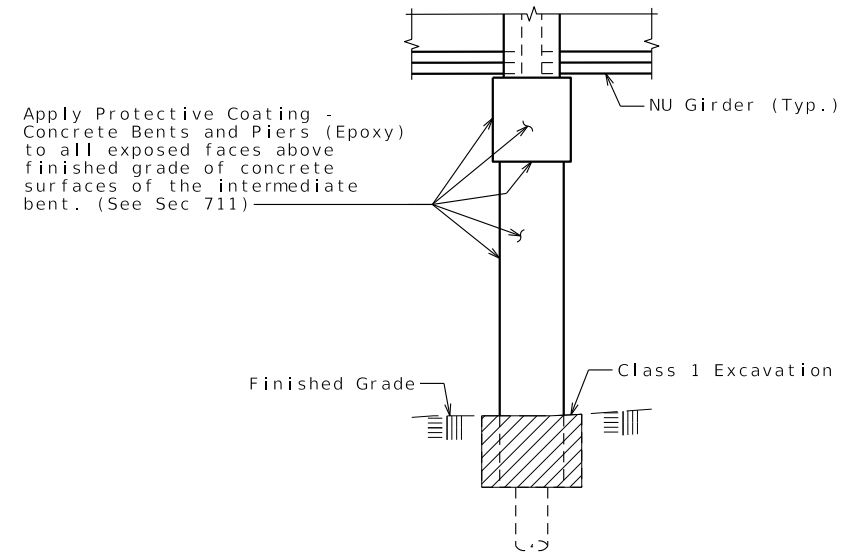
Protective coating for concrete bents (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Miscellaneous:

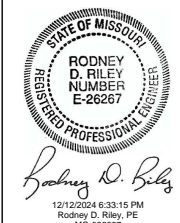
MoDOT Construction personnel will indicate the type of joint filler option used under the precast panels for this structure:

- Constant Joint Filler
- Variable Joint Filler

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



PROTECTIVE COATING DETAILS AT INTERMEDIATE BENTS NO. 2, 3 AND 4



DATE PREPARED 12-DEC-2024	
ROUTE A	STATE MO
DISTRICT BR	SHEET NO. 3
COUNTY WARREN	
JOB NO. J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9374	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

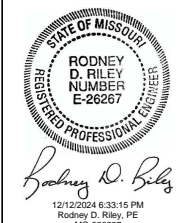
105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 385-4000
 CERTIFICATE #00704

GENERAL NOTES

Detailed July 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 3 of 32



RODNEY D. RILEY
 LICENSE NUMBER E-26267
 12/12/2024 6:33:15 PM
 Rodney D. Riley, PE
 MO-026267

DATE PREPARED
12-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
BR 4

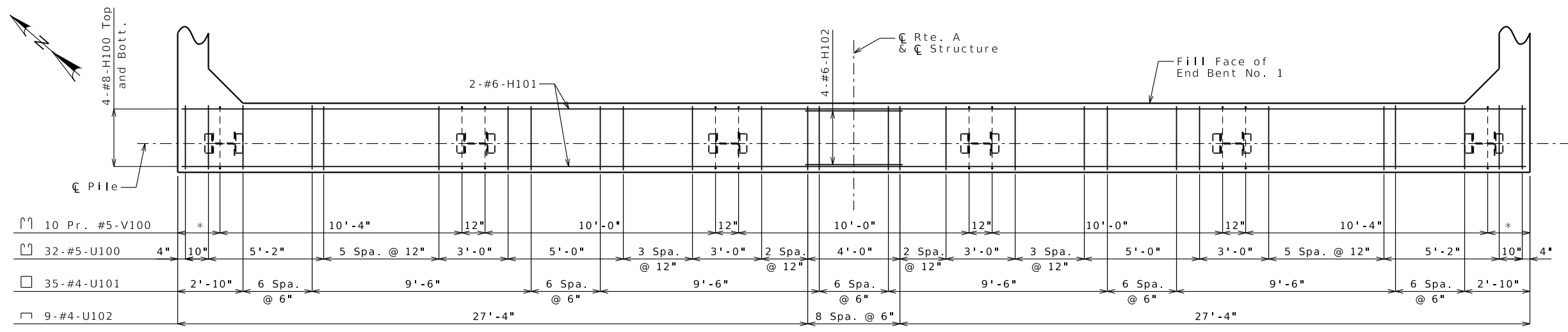
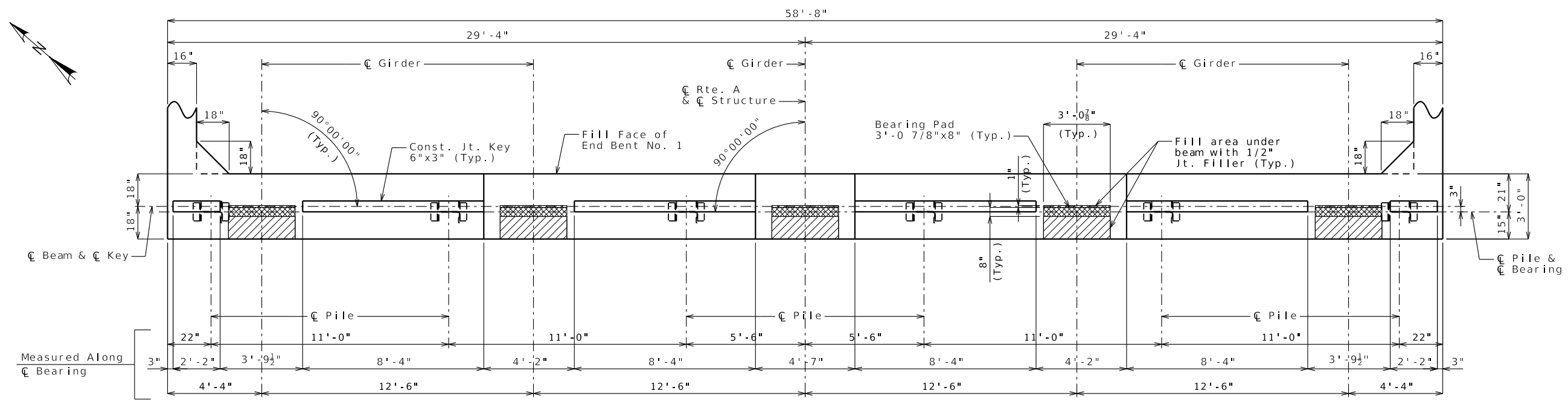
COUNTY
WARREN

JOB NO.
J2S3438

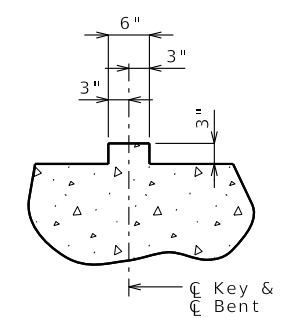
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374



PLAN OF BEAM SHOWING REINFORCEMENT



SECTION THRU KEY

General Notes:

For details of End Bent No. 1 not shown, see Sheets No. 5 & 6.

All U-bars and Pr. V-bars shall be placed parallel to $\text{\textcircled{C}}$ Rte. A.

All reinforcing bars shall be field adjusted to clear piles by at least 1 1/2".

For details of vertical drain at end bents, see Sheet No. 7.

For details of bridge approach slab, see Sheet No. 26.

Reinforcement of wingwall not shown for clarity.

Substructure Quantity Table for End Bent No. 1		
Item		Quantity
Galvanized Structural Steel Piles (12 in.)	linear foot	642
Dynamic Pile Testing	each	1
Pre-Bore for Piling	linear foot	116
Pile Point Reinforcement	each	6
Class B Concrete (Substructure)	cu. yard	23.1

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

DETAILS OF END BENT NO. 1

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 386-4000
 CERTIFICATE AUTHORITY
 #60704

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

DATE	DESCRIPTION



RODNEY D. RILEY
LICENSE NUMBER
E-28267
12/12/2024 6:33:16 PM
Rodney D. Riley, PE
MO-028267

DATE PREPARED
12-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
BR 5

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

JACOBS ENGINEERING GROUP

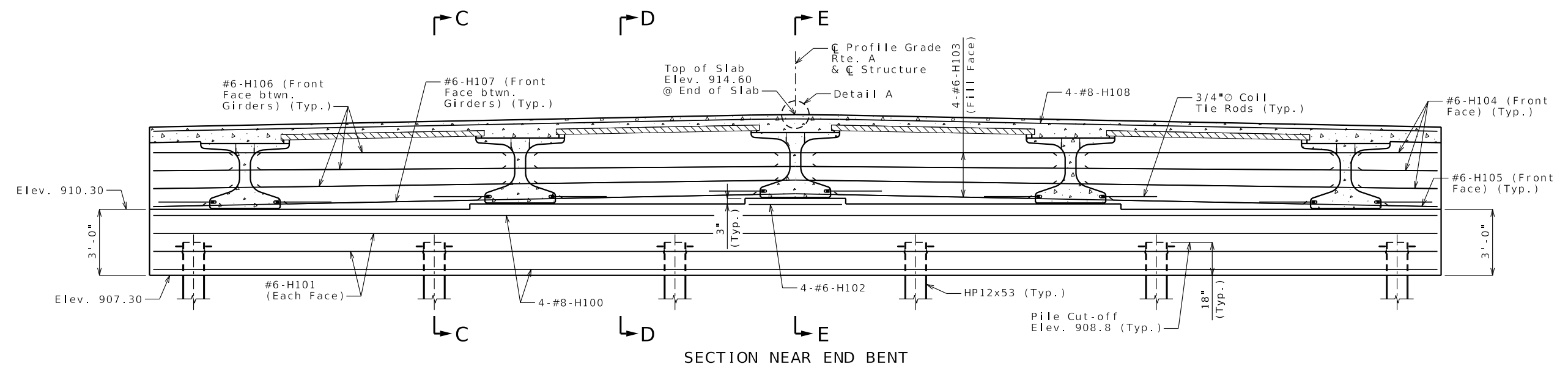
1001 HIGHLANDS PLAZA DR. WEST SUITE 400

ST. LOUIS, MISSOURI 63110

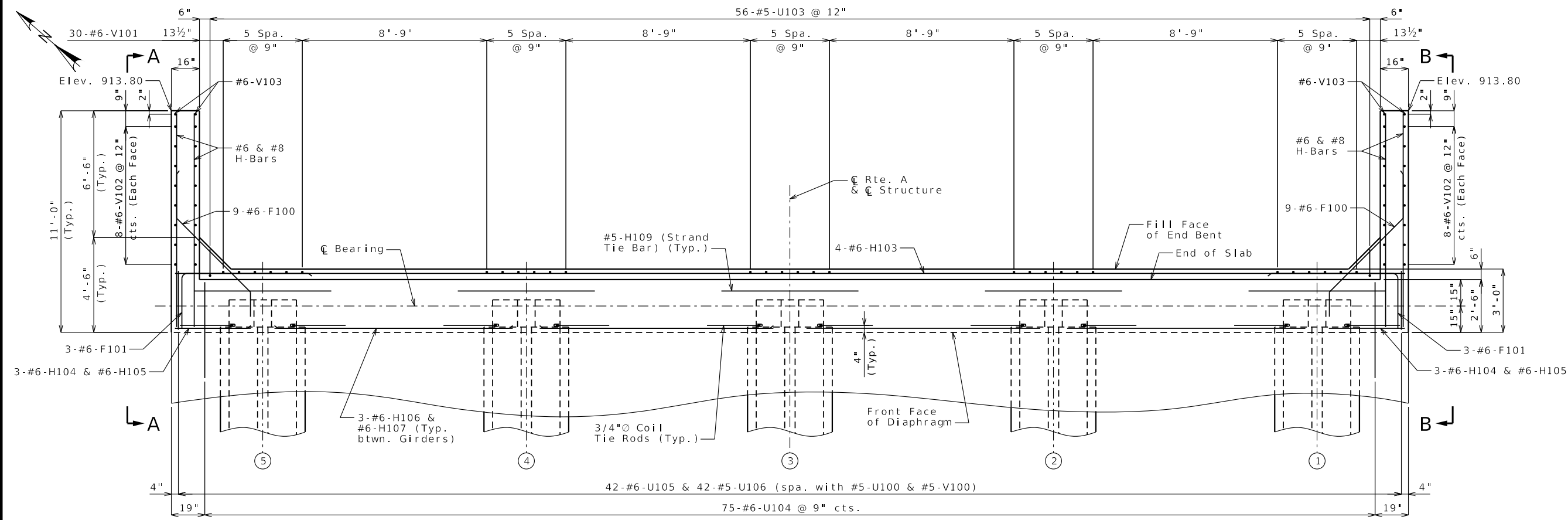
PHONE: (314) 385-4000

CERTIFICATION AUTHORITY

#00704

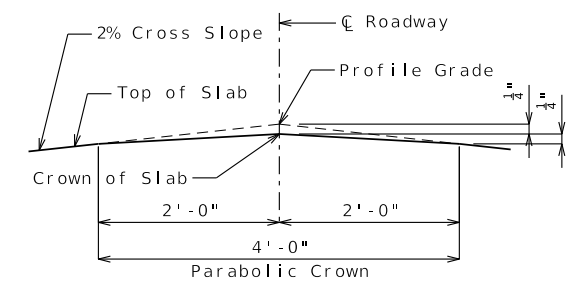


SECTION NEAR END BENT



PART PLAN

#6-H102 & #8-H108 bars not shown for clarity.



DETAIL A

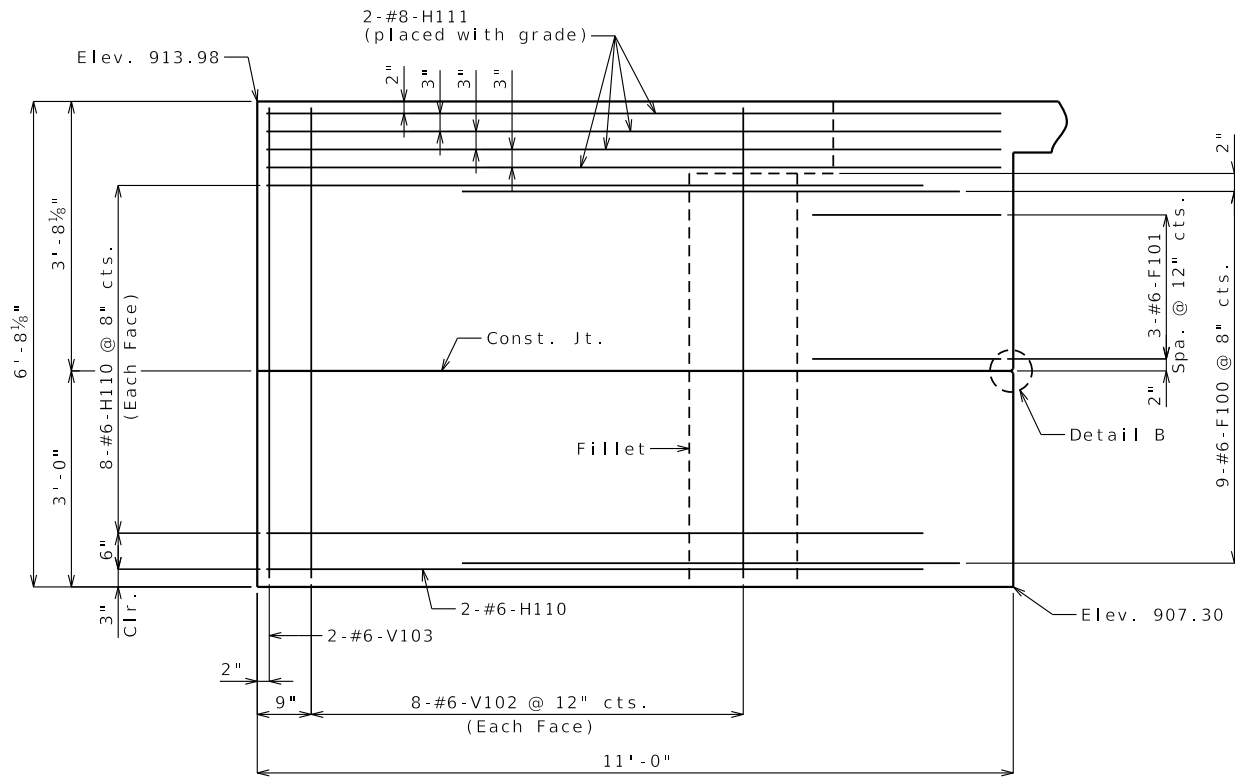
DETAILS OF END BENT NO. 1

Notes:

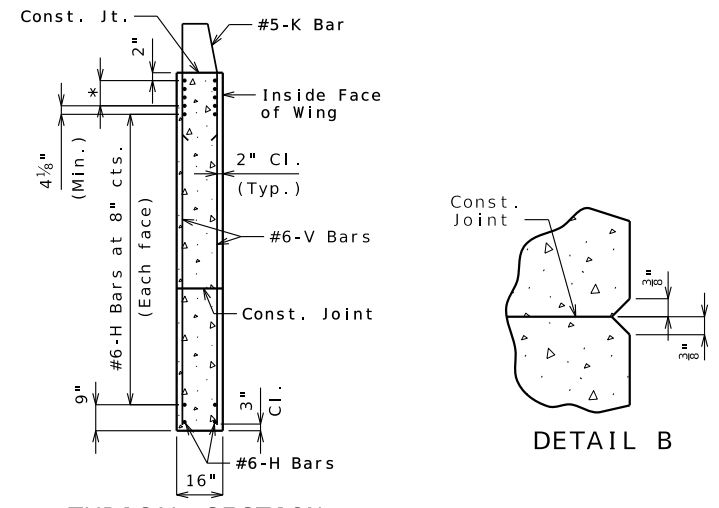
- For details of End Bent No. 1 not shown, see Sheets No. 4 & 6.
- For Elevations A-A, B-B & Sections C-C, D-D & E-E, see Sheet No. 6.
- For location of Coil Tie Rods and #5-H109 (Strand Tie Bar), see Sheets No. 14 & 15.
- The #6-F100 and #6-F101 bars shall be bent in the field to clear girders if required.
- The U bars shall be placed parallel to centerline of roadway.
- All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
- Strands at end of the girders shall be field bent or, if necessary, cut in field to maintain 1 1/2" minimum clearance to fill face of end bent.

Detailed Aug. 2024
Checked Oct. 2024

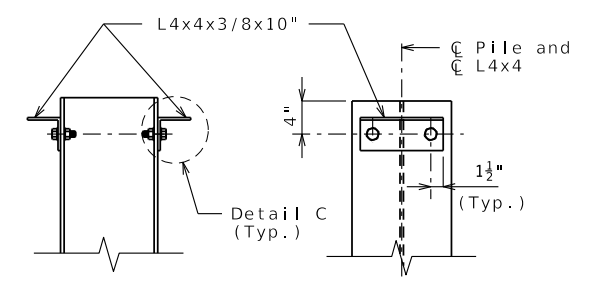
Note: This drawing is not to scale. Follow dimensions. Sheet No. 5 of 32



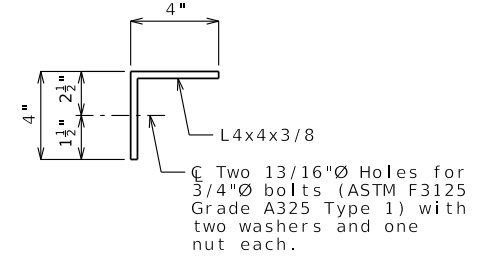
ELEVATION A-A
(ELEVATION B-B OPPOSITE HAND)



TYPICAL SECTION
THRU WING
* #8-H Bars at 3\"/>

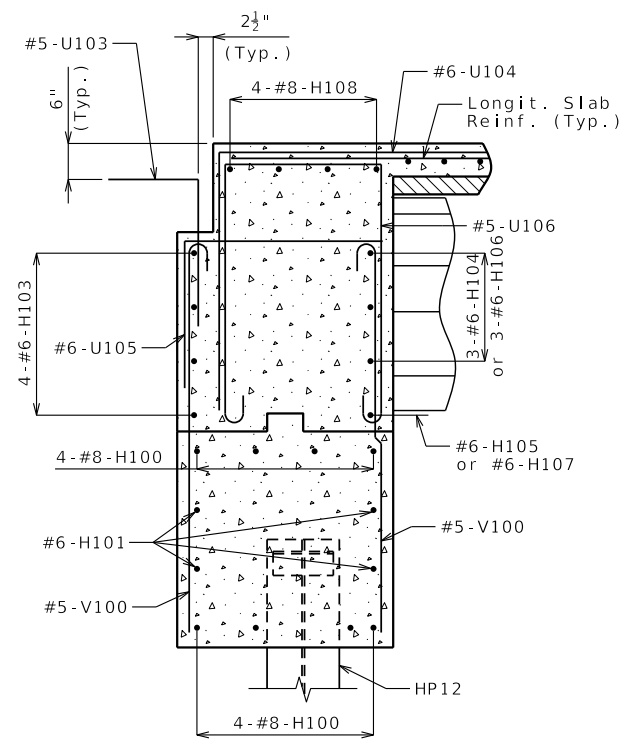


DETAILS OF HP PILE ANCHORS

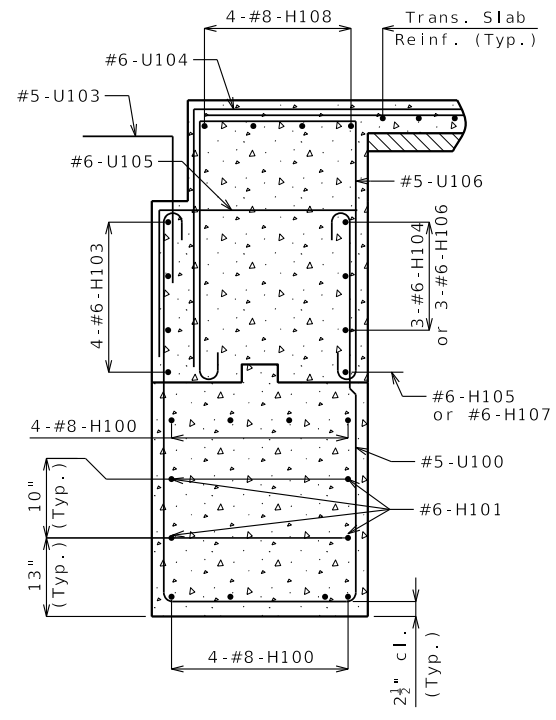


DETAIL C

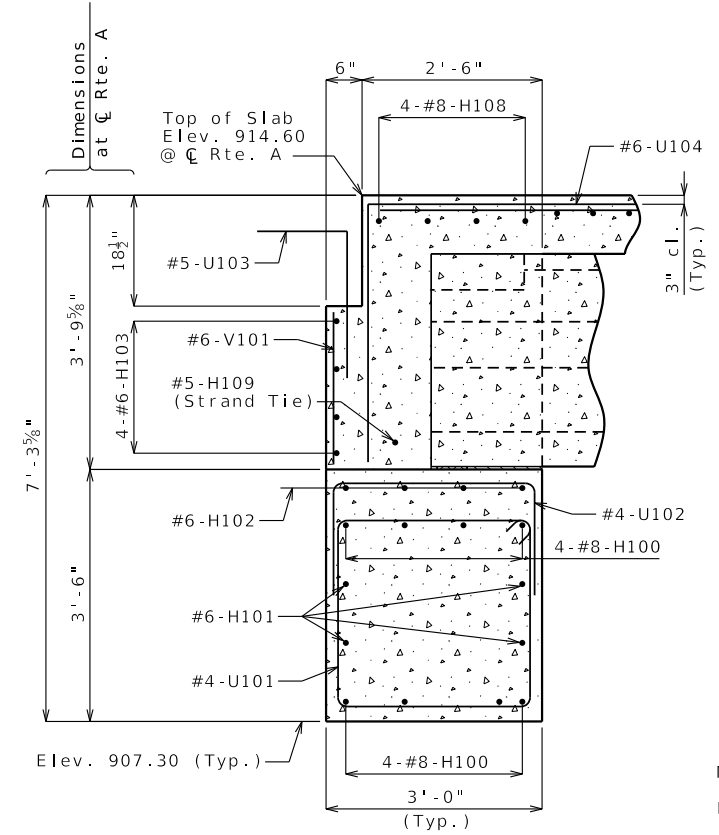
Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.



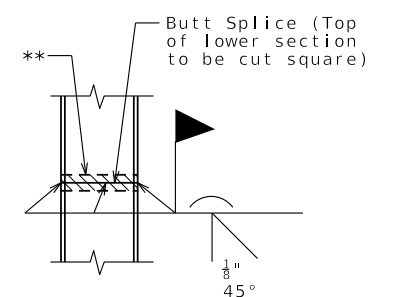
SECTION C-C



SECTION D-D



SECTION E-E



STEEL PILE SPLICE
(If required)

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

- Notes:
- For location of Elevations A-A & B-B, see Sheet No. 5.
 - For location of Sections C-C, D-D & E-E, see Sheet No. 5.
 - For details of End Bent No. 1 not shown, see Sheets No. 4 & 5.
 - For reinforcement of the barrier, see Sheet No. 25.

DETAILS OF END BENT NO. 1

Detailed Aug. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 6 of 32



RODNEY D. RILEY
NUMBER E-28267

DATE PREPARED
12-DEC-2024

ROUTE A MO
DISTRICT BR SHEET NO. 6

COUNTY WARREN
JOB NO. J2S3438
CONTRACT ID.

PROJECT NO.
BRIDGE NO. A9374

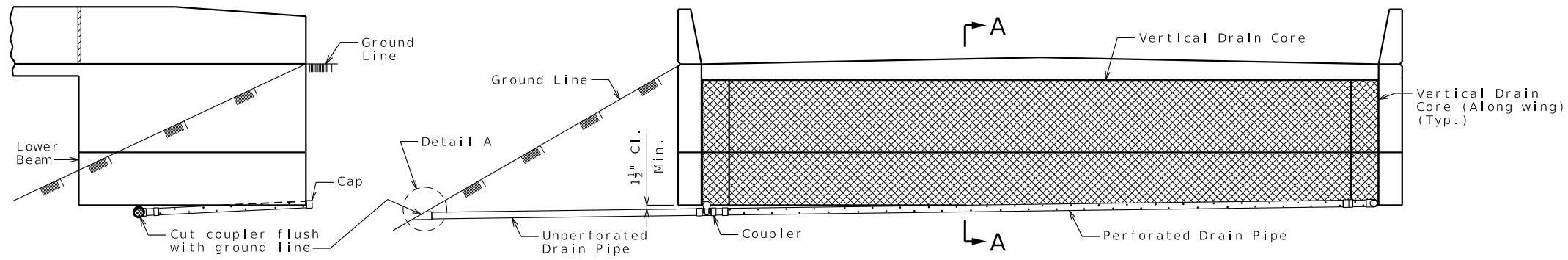
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

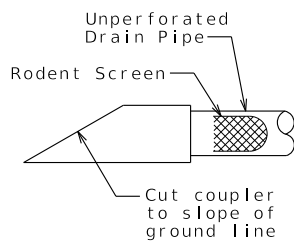
Jacobs

JACOBS ENGINEERING GROUP
ST. LOUIS PLAZA DR. WEST SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY #60704

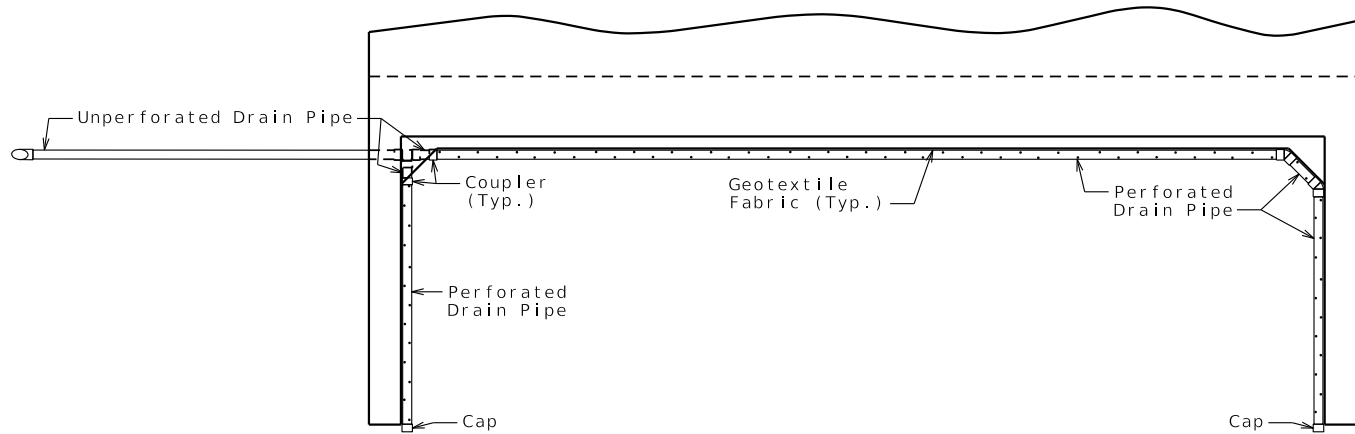


ELEVATION OF WING

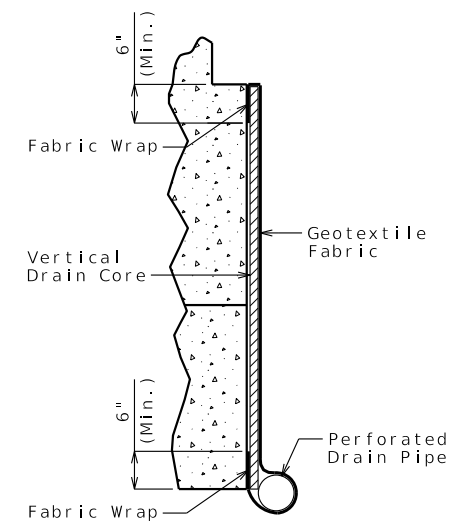
ELEVATION OF END BENT



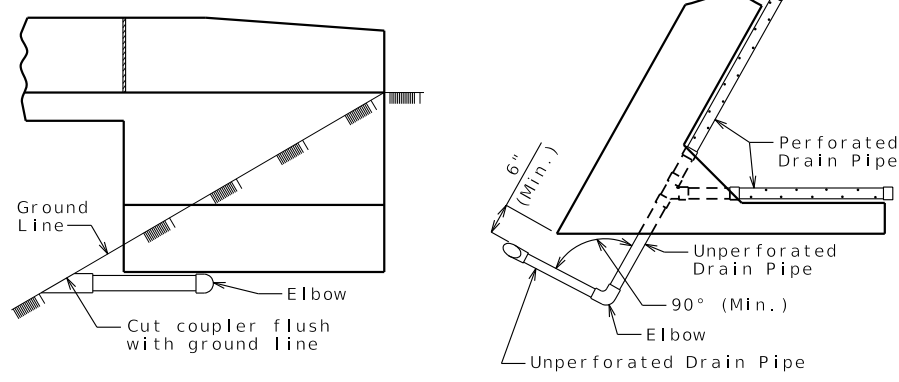
DETAIL A



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)

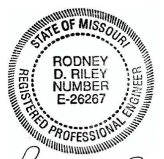
General Notes:

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.



RODNEY D. RILEY
NUMBER E-28267
12/12/2024 6:33:18 PM
Rodney D. Riley, PE
MO-028267

DATE PREPARED
12-DEC-2024

ROUTE A STATE MO

DISTRICT BR SHEET NO. 7

COUNTY WARREN

JOB NO. J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST, SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 385-4000

CERTIFICATE AUTHORITY #00704



RODNEY D. RILEY
 LICENSE NUMBER E-28287
 12/12/2024 6:33:18 PM
 Rodney D. Riley, PE
 MO-028287

DATE PREPARED
 12-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 BR 8

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

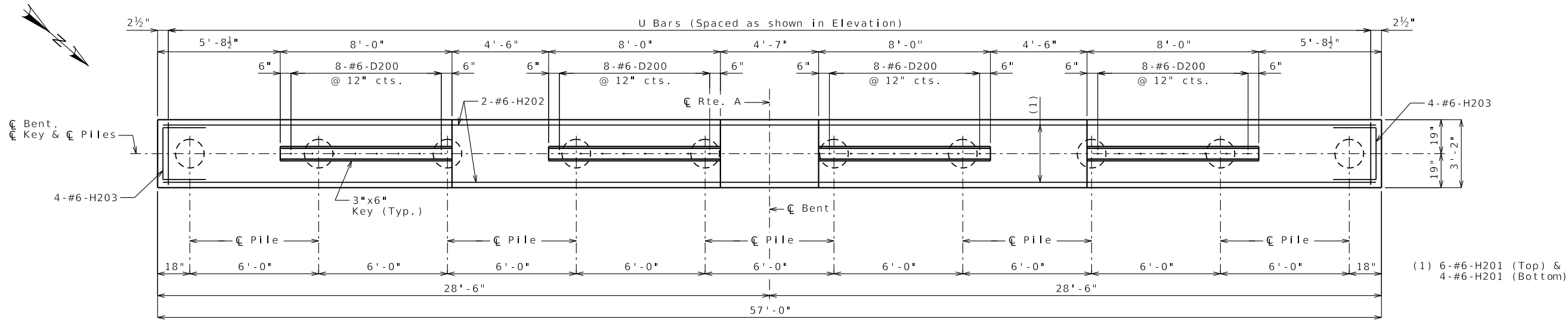
JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST, SUITE 400

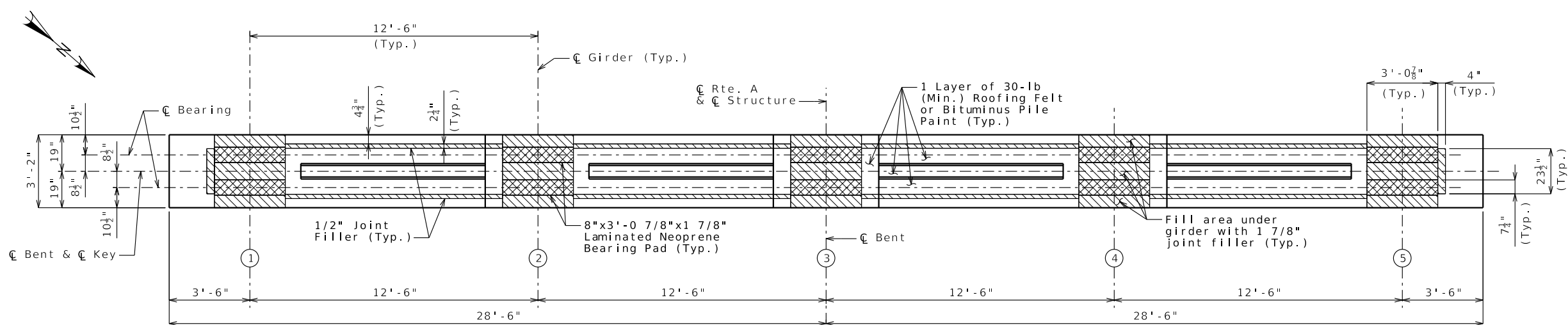
ST. LOUIS, MISSOURI 63110

PHONE: (314) 385-4000

CERTIFICATE AUTHORITY #00704

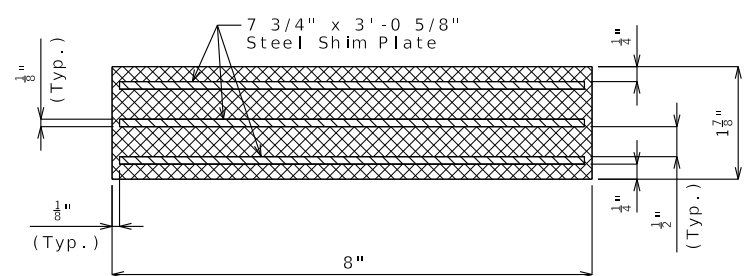


PLAN SHOWING REINFORCEMENT

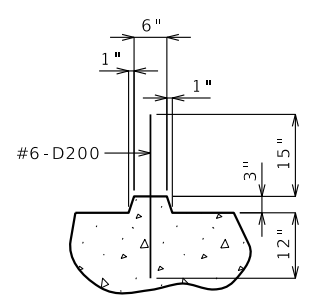


PLAN OF BEAM

General Notes:
 Work this sheet with Sheets No. 9 & 19.
 Bar marks shown (200 series) are for Intermediate Bent 2.
 Bar marks for Intermediate Bent 3 are 300 series.
 Bar marks for Intermediate Bent 4 are 400 series.
 For steps 2 inches or more, use 2 1/4"x1/2" joint filler up vertical face.
 All reinforcing shall be field adjusted to clear piles by at least 1 1/2".



LAMINATED NEOPRENE BEARING PAD



SECTION THRU KEY

Item	Substructure Quantity Table		
	Int. Bent No. 2	Int. Bent No. 3	Int. Bent No. 4
	Quantity	Quantity	Quantity
Class 1 Excavation	60	25	30
Galvanized Cast-In-Place Concrete Pile (16 in.)	980	980	990
Dynamic Pile Testing	1	1	1
Pile Point Reinforcement	10	10	10
Class B Concrete (Substructure)	116.5	101.8	101.8
Reinforcing Steel (Epoxy Coated)	7,120	6,610	6,610

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

DETAILS OF INTERMEDIATE BENTS NO. 2, 3, & 4

Detailed Oct. 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 8 of 32



RODNEY D. RILEY
 LICENSE NUMBER E-26267
 12/12/2024 6:33:19 PM
 Rodney D. Riley, PE
 MO-026267

DATE PREPARED
 12-DEC-2024

ROUTE A STATE MO
 DISTRICT BR SHEET NO. 9

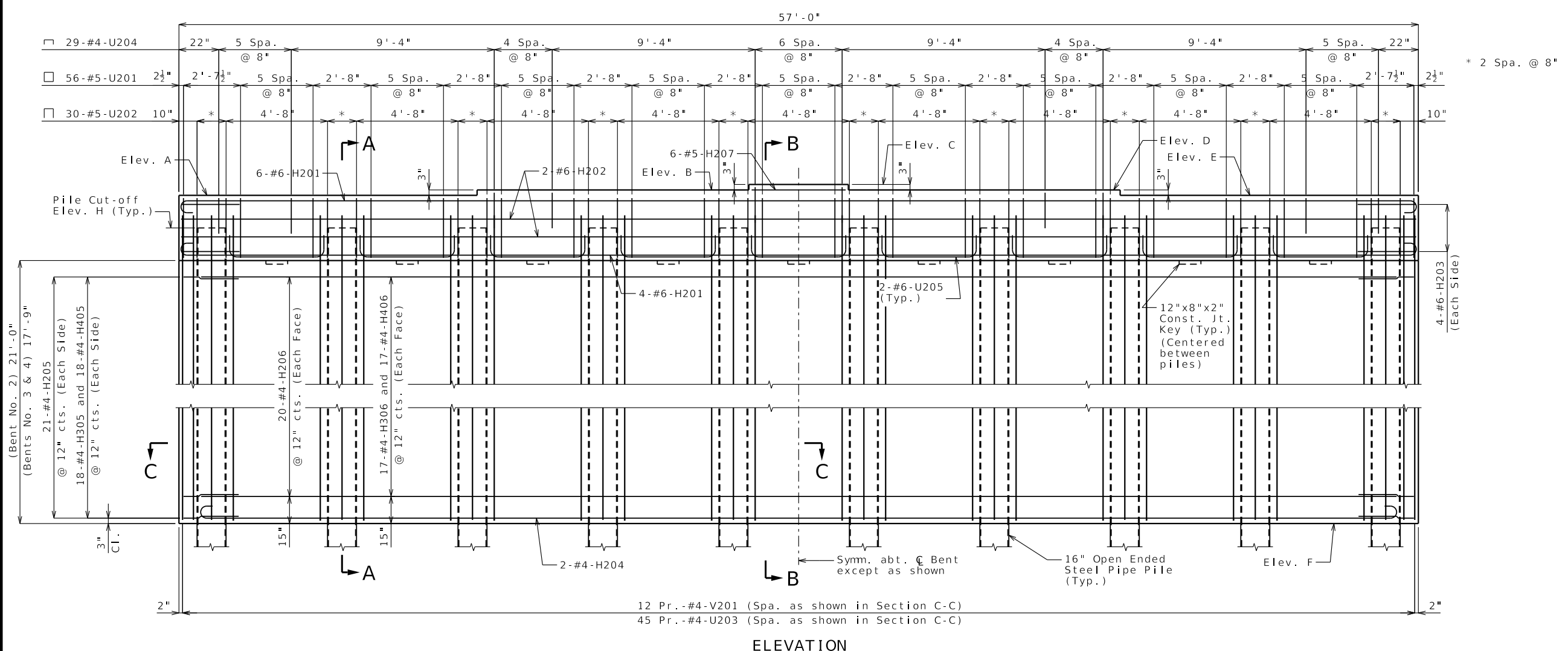
COUNTY WARREN
 JOB NO. J2S3438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO. A9374

DATE	DESCRIPTION

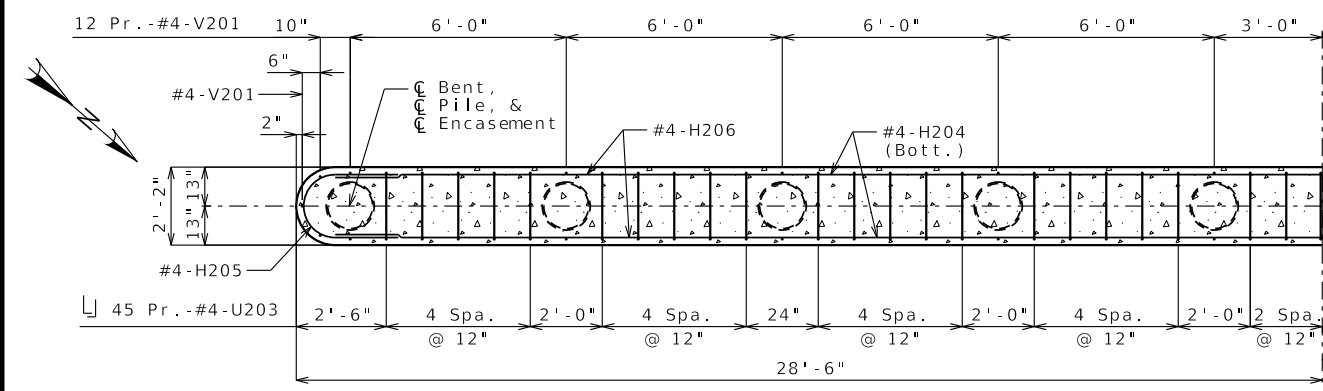
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 ST. LOUIS PLAZA DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 385-4000
 CERTIFICATE NO. #00704

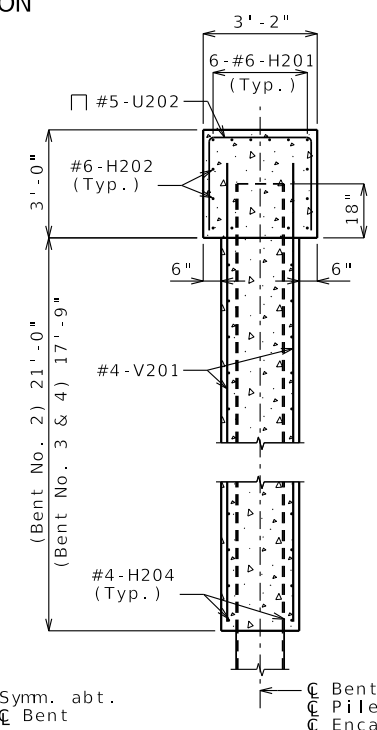


ELEVATION

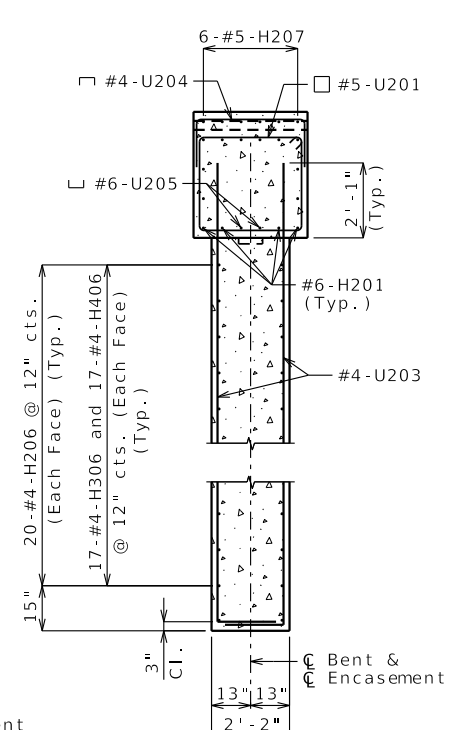
Bent No.	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F	Elev. H
Int. Bent No. 2	910.28	910.53	910.78	910.53	910.28	886.28	908.78
Int. Bent No. 3	910.45	910.70	910.95	910.70	910.45	889.70	908.95
Int. Bent No. 4	910.43	910.68	910.93	910.68	910.43	889.68	908.93



SECTION C-C



SECTION A-A



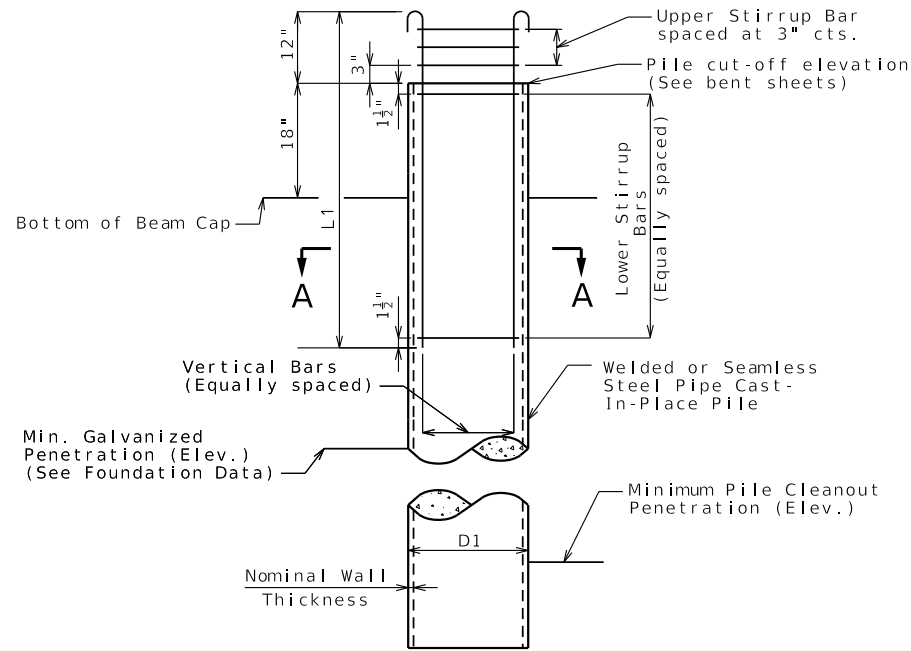
SECTION B-B

General Notes:
 Work this sheet with Sheets No. 8 & 19.

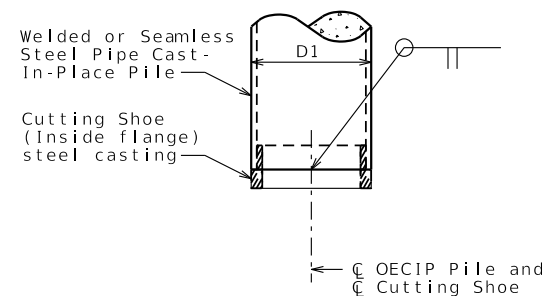
DETAILS OF INTERMEDIATE BENTS NO. 2, 3, & 4

Detailed Oct. 2024
 Checked Oct. 2024

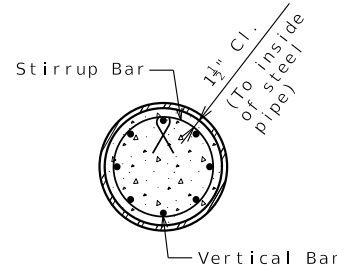
Note: This drawing is not to scale. Follow dimensions. Sheet No. 9 of 32



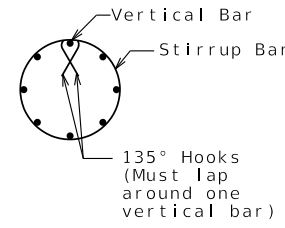
GALVANIZED OPEN ENDED CAST-IN-PLACE (OECIP) CONCRETE PILE WITHOUT PILE POINT REINFORCEMENT



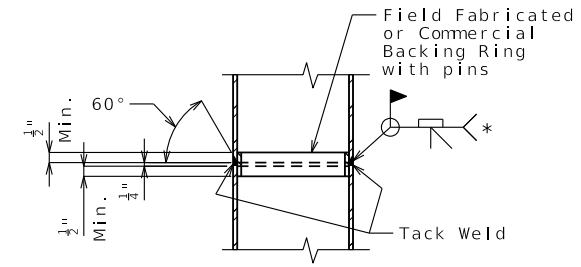
MANUFACTURED OPEN ENDED CUTTING SHOE (INSIDE FLANGE)



SECTION A-A



DETAIL OF SEISMIC STIRRUP BAR



STEEL PIPE PILE SPLICE

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

GALVANIZED OPEN ENDED CAST-IN-PLACE (OECIP) CONCRETE PILE DATA			
Bent Number	2	3	4
D1, OECIP Pile (O.D.)	16"	16"	16"
Min. Nominal Wall Thickness	1/2"	1/2"	1/2"
Pile Point Reinforcement	**	**	**
Min. Pile Cleanout Penetration (Elev.)	878.24	881.66	881.78
Vertical Bars	6-#6-V202	6-#6-V302	6-#6-V402
L1, Length of Vertical Bars	6'-0"	6'-0"	6'-0"
Upper Stirrup Bars	3-#4-P201	3-#4-P301	3-#4-P401
Lower Stirrup Bars	6-#4-P201	6-#4-P301	6-#4-P401

** Open ended cutting shoe

Notes:

Welded or seamless steel shell (pipe) shall be ASTM A252 Grade 3 Modified (fy = 50,000 psi) with physical and chemical requirements that meet ASTM A572 Grade 50. Pipe certification and source material shall be required.

Open ended pile shall be augered out to the minimum pile cleanout penetration elevation and filled with Class B-1 concrete.

Concrete for cast-in-place pile shall be Class B-1.

Steel casting for open ended cutting shoe pile point reinforcement shall be ASTM A148 Grade 90-60.

The minimum wall thickness of any spot or local area of any type shall not be more than 12.5% under the specified nominal wall thickness.

The contractor shall determine the pile wall thickness required to avoid damage from all driving activities, but wall thickness shall not be less than the minimum specified. No additional payment will be made for furnishing a thicker pile wall than specified on the plans.

Splices of pipe for cast-in-place pipe pile shall be made watertight and to the full strength of the pipe above and below the splice to permit hard driving without damage. Pipe damaged during driving shall be replaced without cost to the state. Pipe sections used for splicing shall be at least 5 feet in length.

The hooks of vertical bars embedded in the beam cap should not be turned outward, away from the pile core.

Reinforcing steel for cast-in-place pile is included in the Bill of Reinforcing Steel.

All reinforcement for cast-in-place pile is included in the estimated quantities for bents.

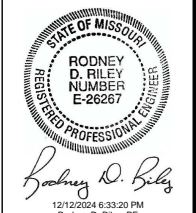
For Foundation Data table, see Sheet No. 2.

GALVANIZED OPEN ENDED CAST-IN-PLACE (OECIP) CONCRETE PILE

Detailed July 2024
Checked Oct. 2024

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

Sheet No. 10 of 32



DATE PREPARED
12-DEC-2024
ROUTE **A** STATE **MO**
DISTRICT **BR** SHEET NO. **10**
COUNTY **WARREN**
JOB NO. **J2S3438**
CONTRACT ID.

PROJECT NO.
BRIDGE NO. **A9374**

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs

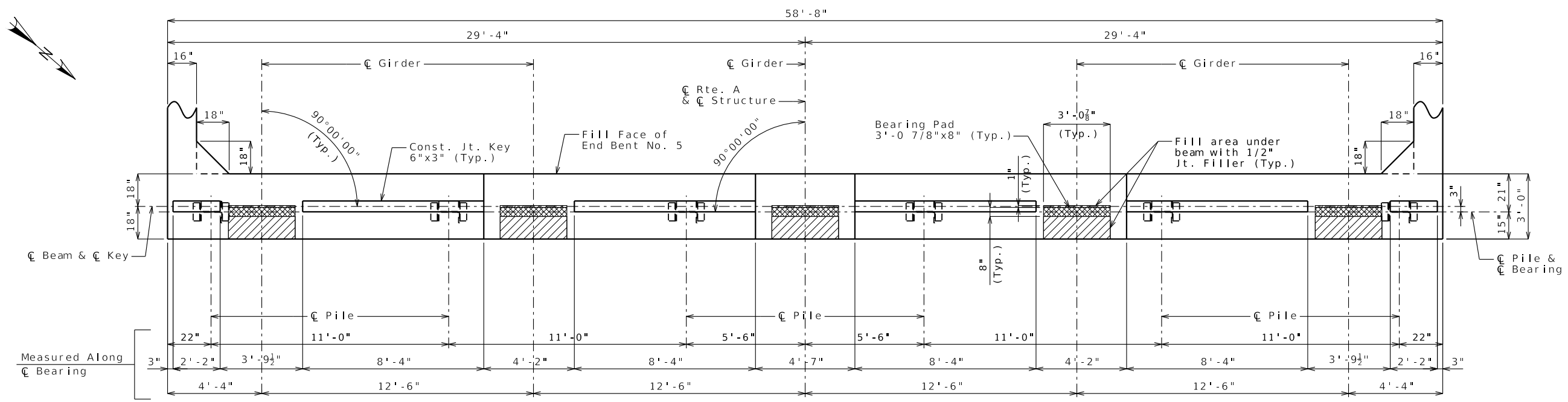
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY #60704



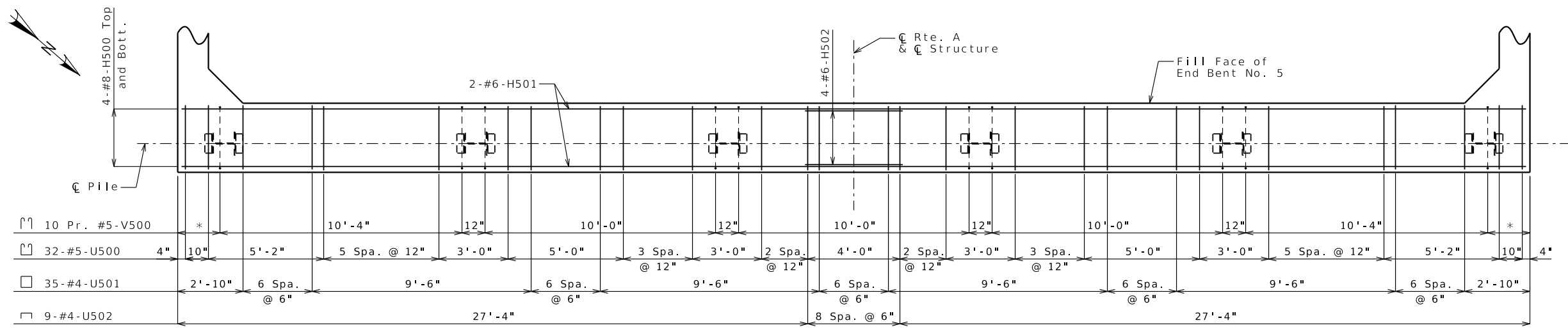
RODNEY D. RILEY
 LICENSE NUMBER E-26267
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 Rodney D. Riley, PE
 MO-026267

DATE PREPARED
12-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
BR	11
COUNTY	
WARREN	
JOB NO.	
J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A9374	



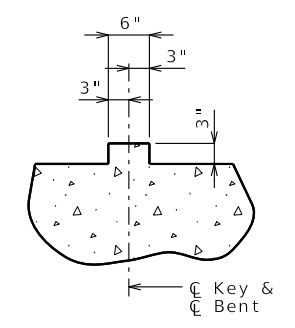
PLAN OF BEAM SHOWING DIMENSIONS



PLAN OF BEAM SHOWING REINFORCEMENT

Substructure Quantity Table for End Bent No. 5		
Item	Quantity	
Galvanized Structural Steel Piles (12 in.)	linear foot	624
Dynamic Pile Testing	each	1
Pre-Bore for Piling	linear foot	100
Pile Point Reinforcement	each	6
Class B Concrete (Substructure)	cu. yard	23.1

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



SECTION THRU KEY

DETAILS OF END BENT NO. 5

- General Notes:
- For details of End Bent No. 5 not shown, see Sheets No. 12 & 13.
 - All U-bars and Pr. V-bars shall be placed parallel to $\text{C} \rightarrow$ Rte. A.
 - All reinforcing bars shall be field adjusted to clear piles by at least 1 1/2".
 - For details of vertical drain at end bents, see Sheet No. 7.
 - For details of bridge approach slab, see Sheet No. 26.
 - Reinforcement of wingwall not shown for clarity.

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

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 385-4000
 CERTIFICATE AUTHORITY
 #60704



RODNEY D. RILEY
 LICENSE NUMBER
 E-28267
 Rodney D. Riley, PE
 MO-028267

DATE PREPARED
 12-DEC-2024
 ROUTE A STATE MO
 DISTRICT BR SHEET NO. 12

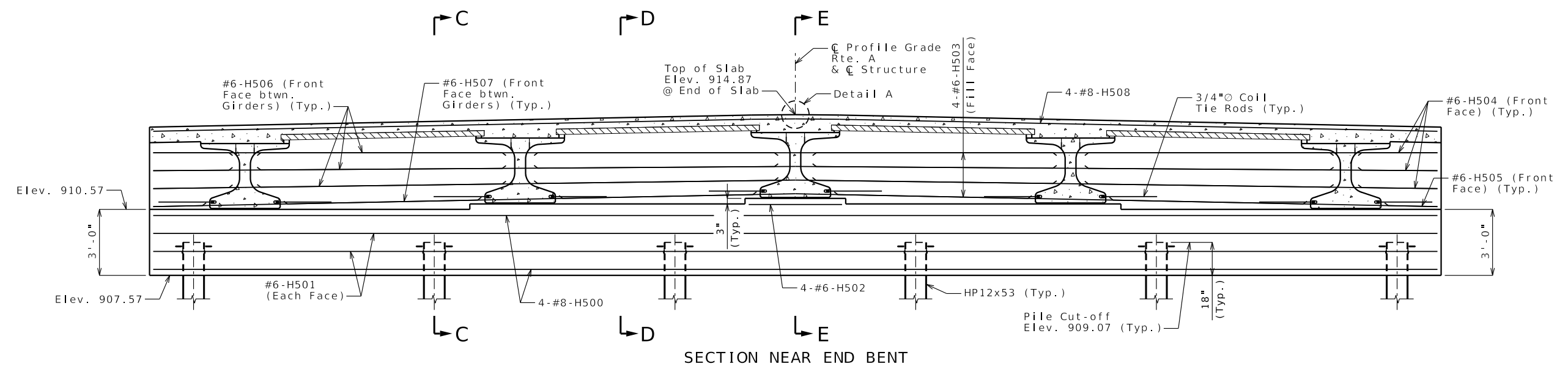
COUNTY
 WARREN
 JOB NO.
 J2S3438
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.
 A9374

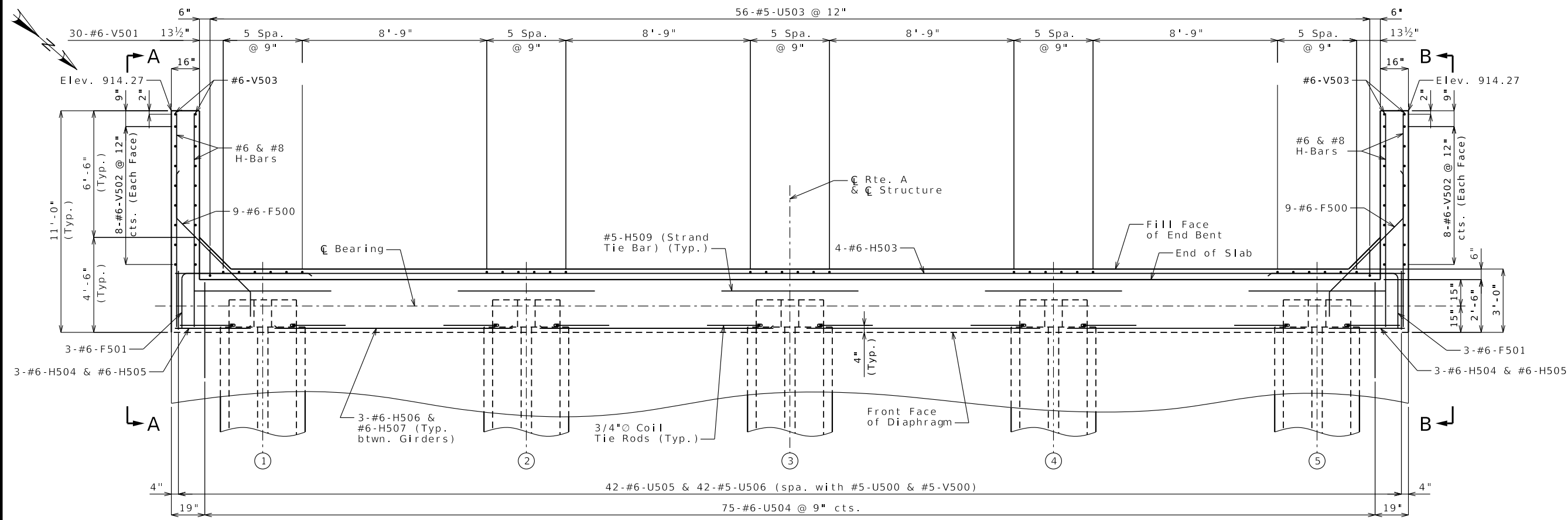
DATE	DESCRIPTION

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

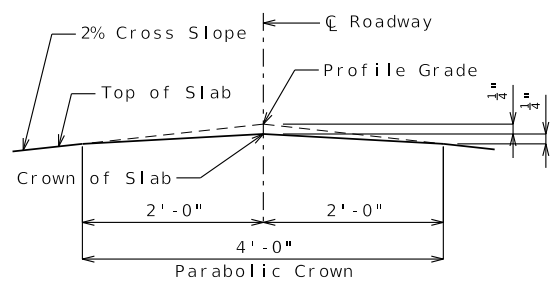
Jacobs
 JACOBS ENGINEERING GROUP
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 ST. LOUIS, MISSOURI 63110
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 CERTIFICATION AUTHORITY
 #00704



SECTION NEAR END BENT



PART PLAN
 #6-H502 & #8-H508 bars not shown for clarity.



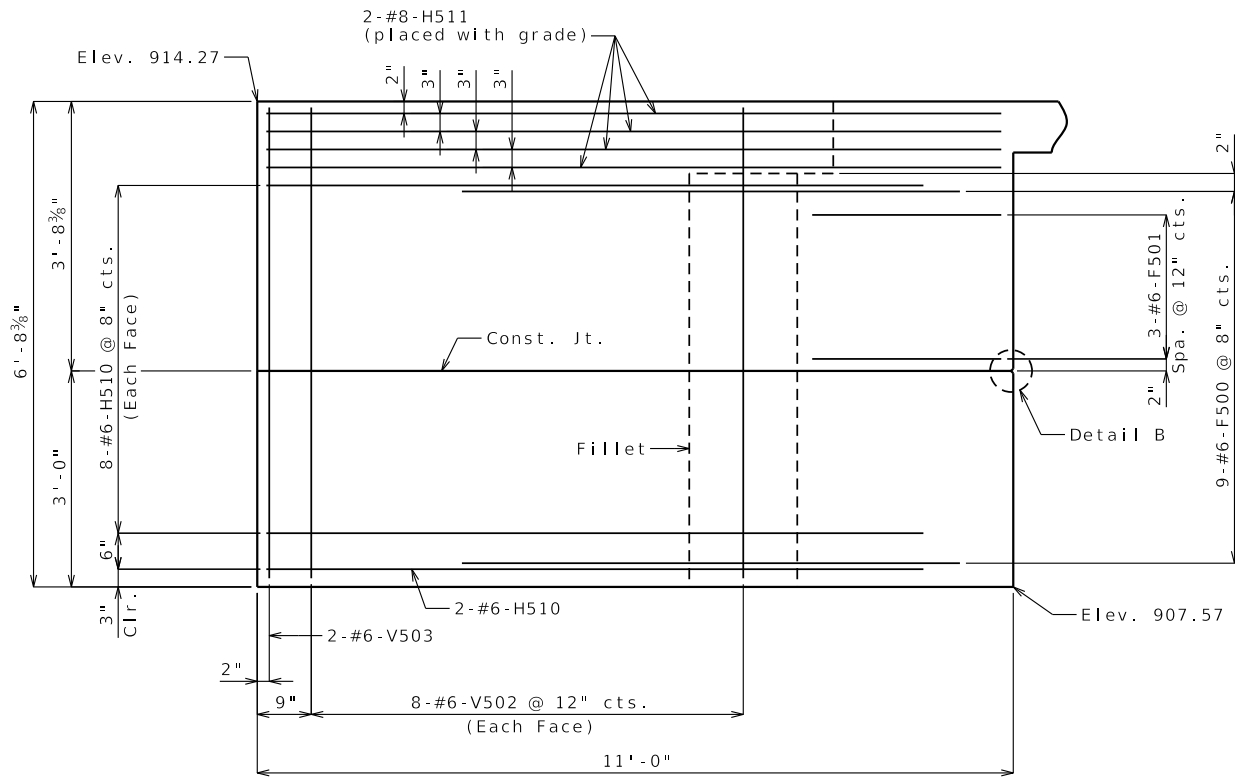
DETAIL A

DETAILS OF END BENT NO. 5

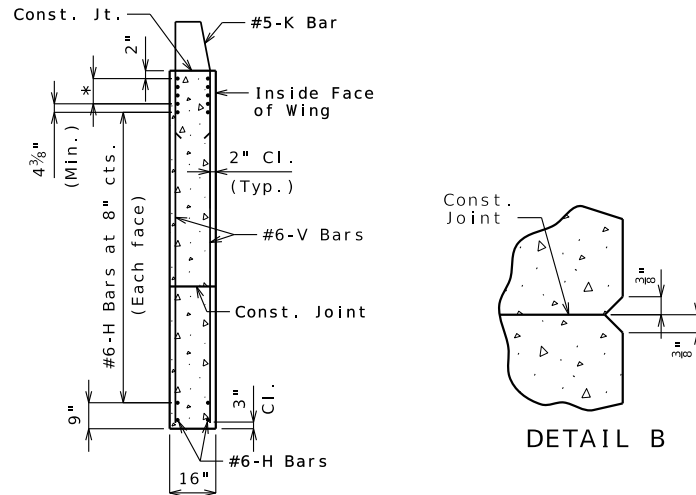
Notes:
 For details of End Bent No. 5 not shown, see Sheets No. 11 & 13.
 For Elevations A-A, B-B & Sections C-C, D-D & E-E, see Sheet No. 13.
 For location of Coil Tie Rods and #5-H509 (Strand Tie Bar), see Sheets No. 14 & 15.
 The #6-F500 and #6-F501 bars shall be bent in the field to clear girders if required.
 The U bars shall be placed parallel to centerline of roadway.
 All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
 Strands at end of the girders shall be field bent or, if necessary, cut in field to maintain 1 1/2" minimum clearance to fill face of end bent.

Detailed Aug. 2024
 Checked Oct. 2024

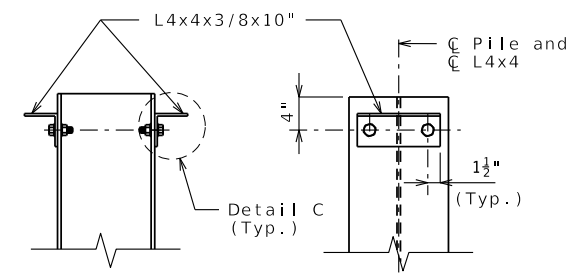
Note: This drawing is not to scale. Follow dimensions. Sheet No. 12 of 32



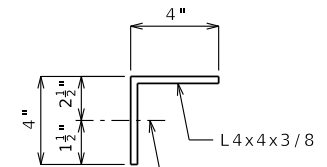
ELEVATION A-A
(ELEVATION B-B OPPOSITE HAND)



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

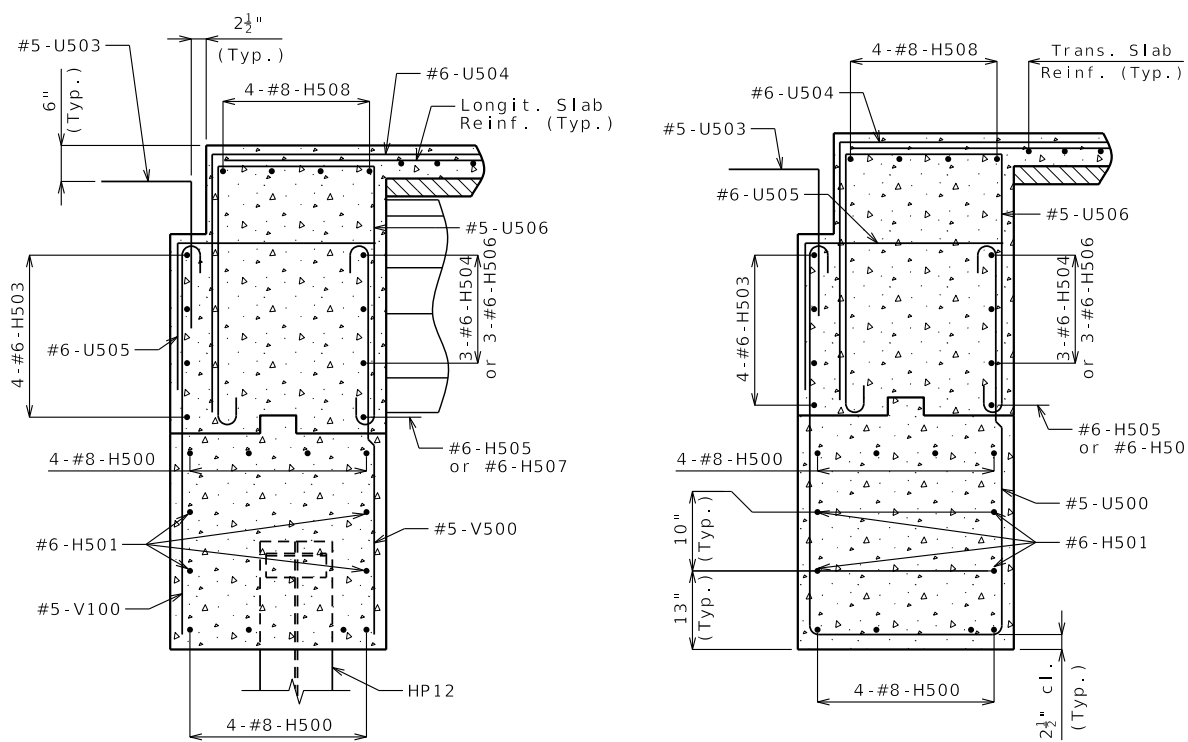


DETAILS OF HP PILE ANCHORS



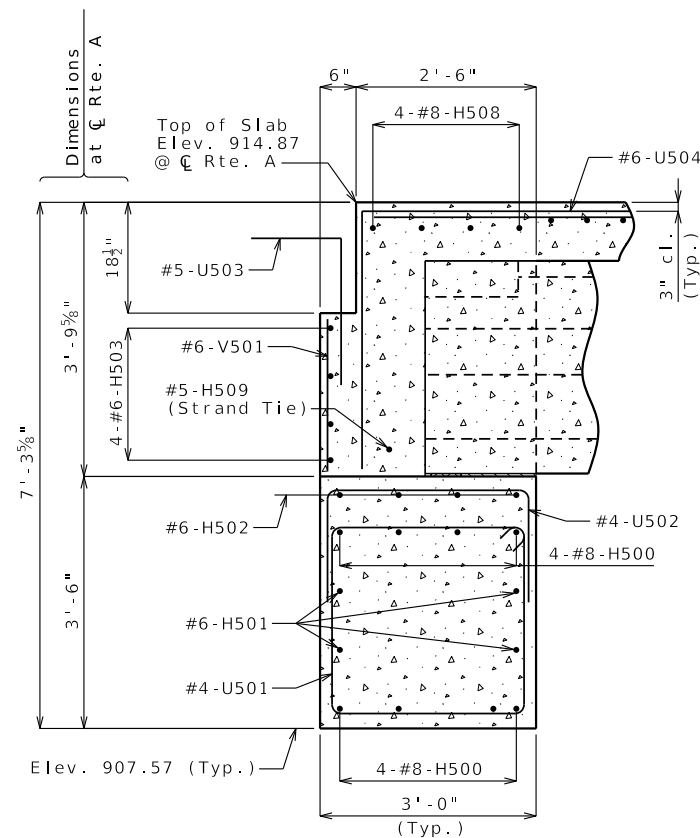
DETAIL C

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.

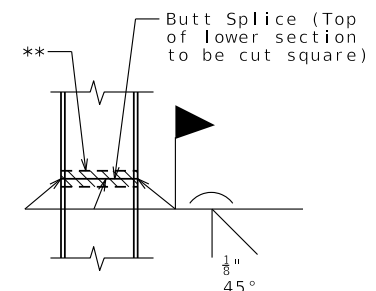


SECTION C-C

SECTION D-D



SECTION E-E



STEEL PILE SPLICE
(If required)

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

Notes:

- For location of Elevations A-A & B-B, see Sheet No. 12.
- For location of Sections C-C, D-D & E-E, see Sheet No. 12.
- For details of End Bent No. 5 not shown, see Sheets No. 11 & 12.
- For reinforcement of the barrier, see Sheet No. 25.

DETAILS OF END BENT NO. 5

Detailed Aug. 2024
Checked Oct. 2024

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

Sheet No. 13 of 32

pw://jacobs-us-va-pw.bentley.com: jacobs-us-va-pw-04/Documents/F3X00900 - 1-70 High Hill RR Reali/30 WIP/J2S3438/Bridge/Sheets/B_A9374_013_J2S3438_EndBent_5-3.dgn



RODNEY D. RILEY
NUMBER
E-28267
RODNEY D. RILEY, PE
MO-028267

DATE PREPARED
12-DEC-2024

ROUTE STATE
A MO
DISTRICT SHEET NO.
BR 13

COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

DATE	DESCRIPTION

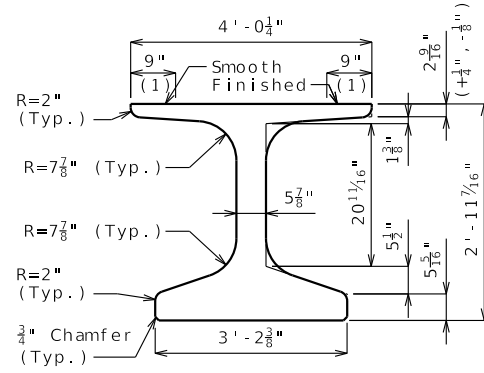
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
ST. LOUIS PLAZA, DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY
#60704

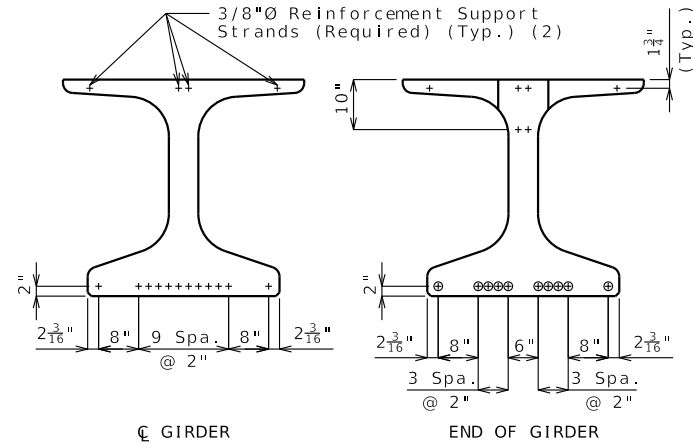
18:00 12-DEC-2024

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about \bar{C} Girder. May be moved laterally in pairs.

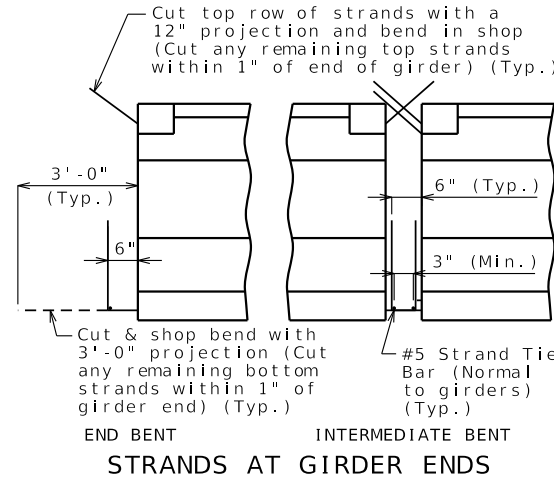


DIMENSIONS

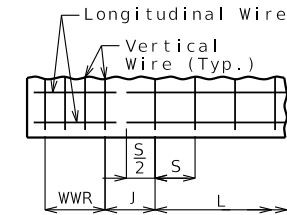


\bar{C} GIRDER STRAND ARRANGEMENT

+ Indicates prestressing strand. o Indicates cut & shop bend with 3'-0" projection.



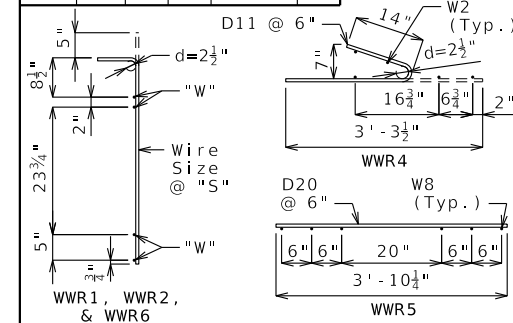
END BENT INTERMEDIATE BENT STRANDS AT GIRDER ENDS



WELDED WIRE PLACEMENT

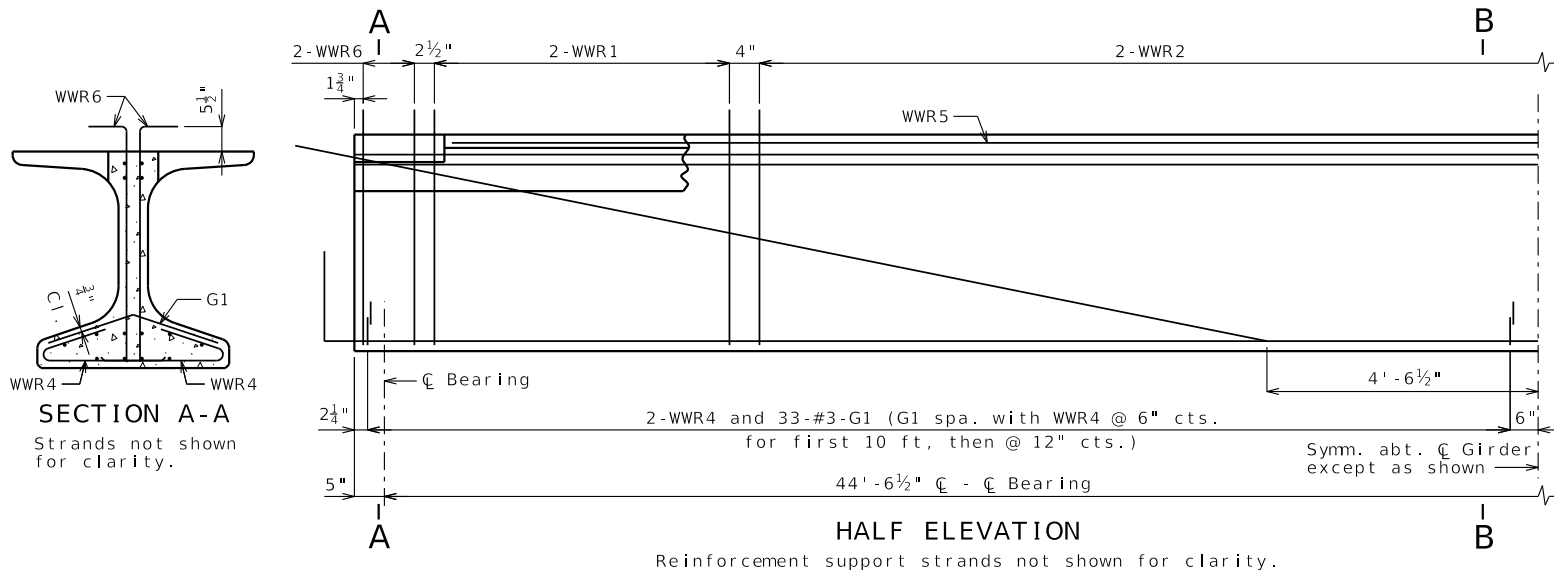
S = Vertical wire spacing
L = Length of WWR mats
J = Distance between WWR mats

Bill of Reinforcing Steel					
Bars Each Girder				Bending Diagrams	
No.	Size/Mark	Length	Shape		
66	3 G1	2'-10"	8	Shape 8 	
2	4 G3	3'-10 1/4"	20		
2	4 G4	2'-3"	20		
2	4 G5	2'-8 1/2"	20		
Welded Wire Each Girder					
Mark	Size	S	W	L	J
WWR1	D31	4"	W12	6'-0"	4"
WWR2	D31	8"	W12	29'-4"	--
WWR6	D31	2"	W12	16"	2 1/2"



All dimensions are out to out.
Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.
Actual bar lengths are measured along centerline of bar to the nearest inch.
Minimum clearance to reinforcing shall be 1", unless otherwise shown.
All bar reinforcement shall be Grade 60.
WWR shall not be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans. Half no. of G3, G4, and G5 not required for ext. girders of end spans.
General Notes:
Concrete for prestressed beams shall be Class A-1 with $f'c = 8000$ psi and $f'ci = 6500$ psi.
Use 12 strands, 0.6" \bar{C} Grade 270, with an initial prestress force of 527 kips.
Pretensioned members shall be in accordance with Sec 1029.
Fabricator shall be responsible for location and design of lifting devices.
Exterior and interior girders are the same except: coil ties, top flange blackout, application of bond breaker.
The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.
For Girder Camber Diagram, see Sheet No. 18.
For location of coil ties at concrete diaphragms and integral bents, see Sheets No. 5, 12, and 19.
Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

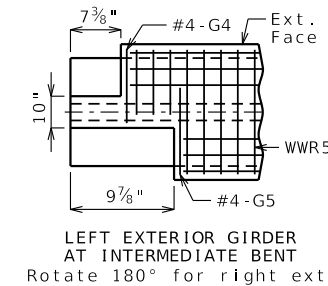


HALF ELEVATION

Reinforcement support strands not shown for clarity.

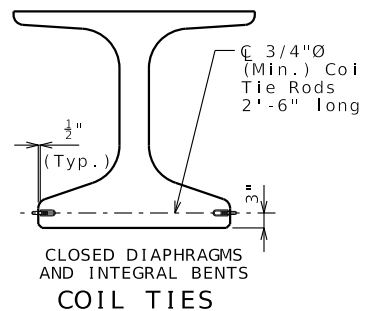
SECTION A-A
Strands not shown for clarity.

SECTION B-B
Strands not shown for clarity.



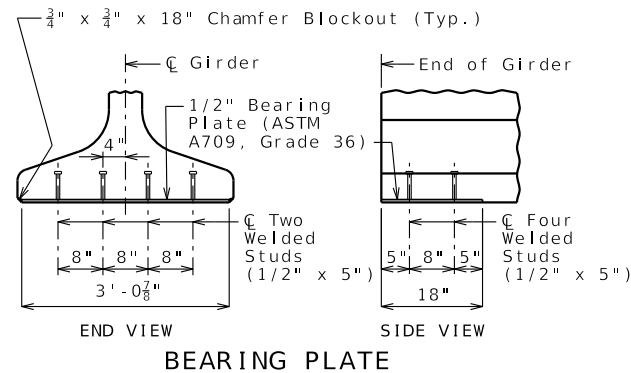
LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT Rotate 180° for right ext.

INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT TOP FLANGE BLOCKOUT



CLOSED DIAPHRAGMS AND INTEGRAL BENTS COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.



BEARING PLATE

NU-GIRDERS - SPANS (1-2) AND (4-5)

Detailed July 2024
Checked Oct. 2024

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

Sheet No. 14 of 32



RODNEY D. RILEY
LICENSED PROFESSIONAL ENGINEER
E-28267

DATE PREPARED
12-DEC-2024
ROUTE A STATE MO
DISTRICT BR SHEET NO. 14

COUNTY WARREN
JOB NO. J2S3438
CONTRACT ID.

PROJECT NO.
BRIDGE NO. A9374

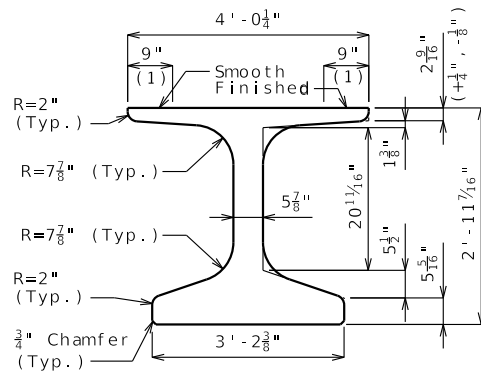
DATE	DESCRIPTION

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

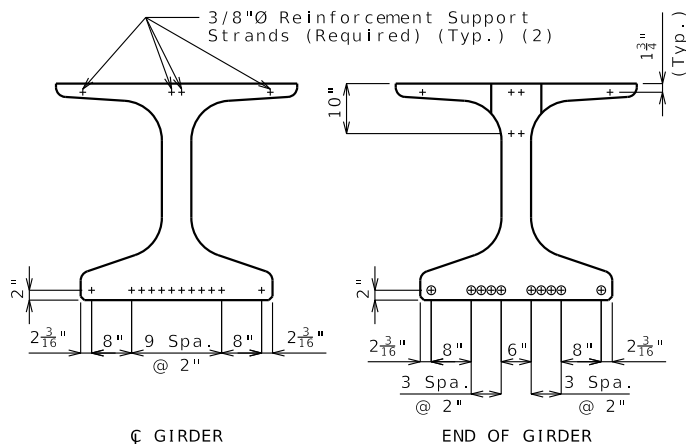
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATE AUTHORITY #60704

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about \bar{C} Girder. May be moved laterally in pairs.

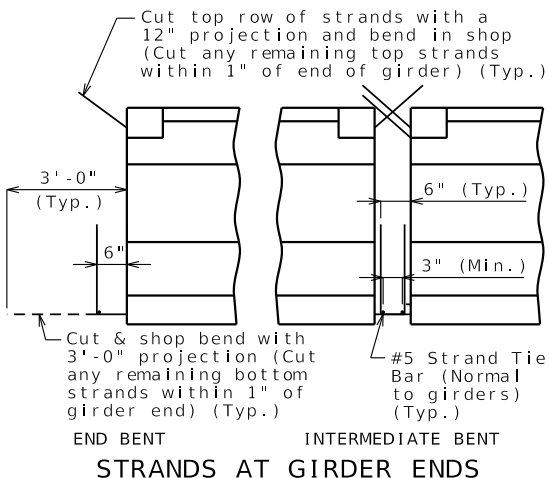


DIMENSIONS

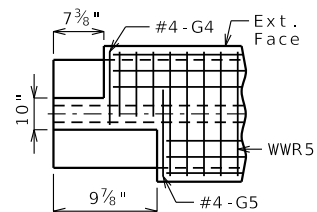


STRAND ARRANGEMENT

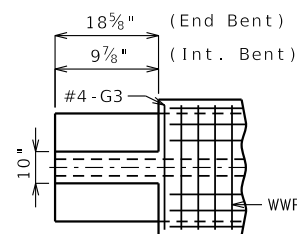
+ Indicates prestressing strand. \circ Indicates cut & shop bend with 3'-0" projection.



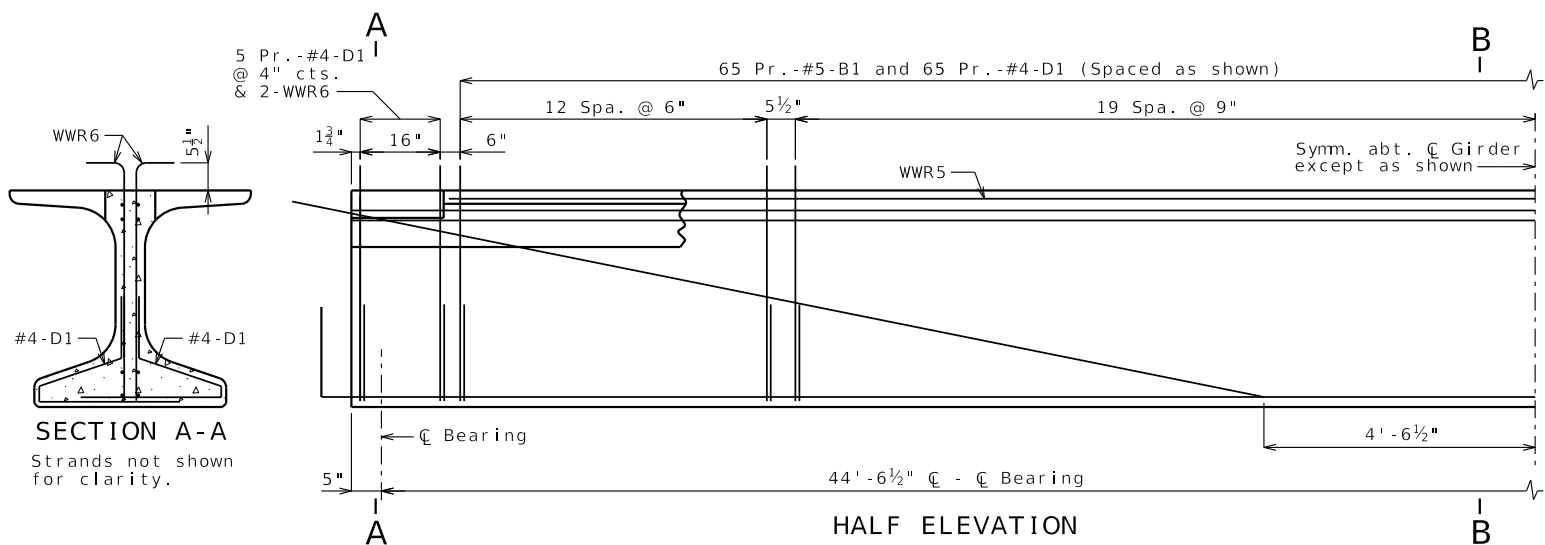
STRANDS AT GIRDER ENDS



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
Rotate 180° for right ext.

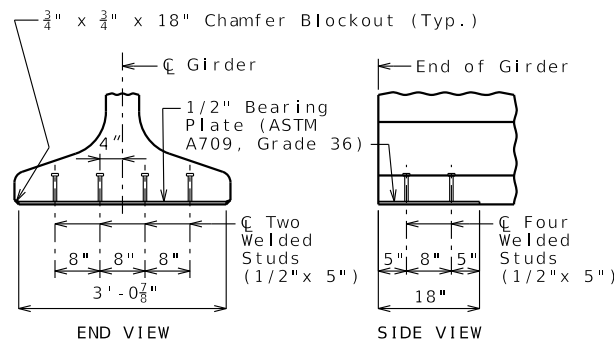


INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT TOP FLANGE BLOCKOUT

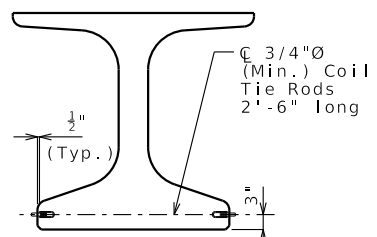


HALF ELEVATION

Reinforcement support strands not shown for clarity.



BEARING PLATE

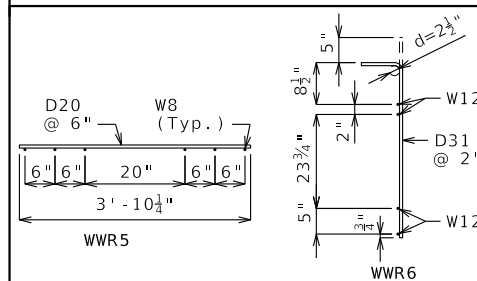


COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.

Bill of Reinforcing Steel - Each Girder				Bending Diagrams	
No.	Size/Mark	Length	Shape		
130	5 B1	4'-4"	115	Shape 20	
150	4 D1	4'-0"	95	Shape 95	
2	4 G3	3'-10 1/4"	20	Shape 20	
2	4 G4	2'-3"	20	Shape 20	
2	4 G5	2'-8 1/8"	20	Shape 20	

Welded Wire Reinforcement - Each Girder



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

All bar reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans. Half no. of G3, G4, and G5 not required for ext. girders of end spans.

General Notes:

Concrete for prestressed girders shall be Class A-1 with $f'c = 8000$ psi and $f'ci = 6500$ psi.

Use 12 strands, 0.6"Ø Grade 270, with an initial prestress force of 527 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same except: coil ties, top flange blockout, application of bond breaker.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 18.

For location of coil ties at concrete diaphragms and integral bents, see Sheets No. 5, 12, and 19.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.



RODNEY D. RILEY
LICENSE NUMBER E-28267
12/12/2024 6:33:24 PM
Rodney D. Riley, PE
MO-028267

DATE PREPARED
12-DEC-2024

ROUTE **A** STATE **MO**

DISTRICT **BR** SHEET NO. **15**

COUNTY **WARREN**

JOB NO. **J2S3438**

CONTRACT ID.

PROJECT NO.

BRIDGE NO. **A9374**

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

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

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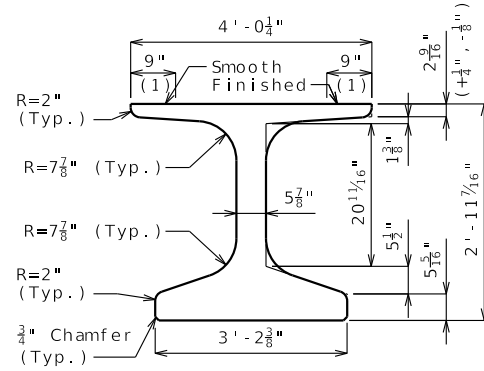
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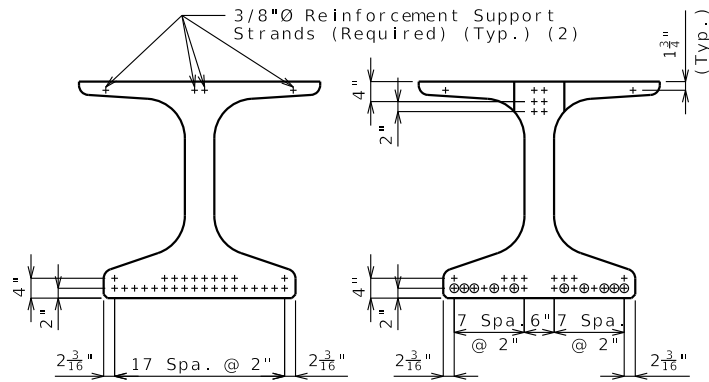
NU-GIRDERS (ALTERNATE REINFORCEMENT) - SPANS (1-2) AND (4-5)

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about \bar{C} Girder. May be moved laterally in pairs.

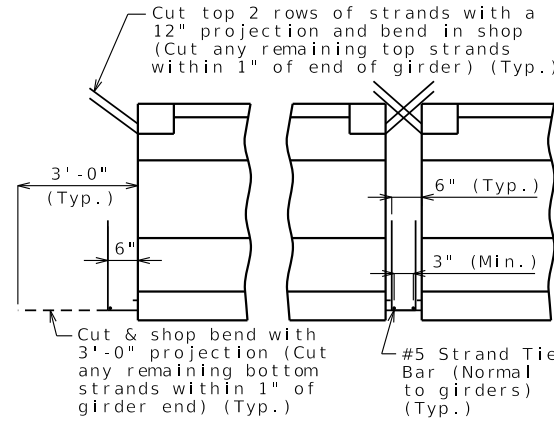


DIMENSIONS

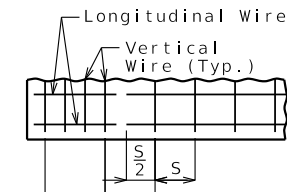


\bar{C} GIRDER
STRAND ARRANGEMENT

+ Indicates prestressing strand. \circ Indicates cut & shop bend with 3'-0" projection.



INTERMEDIATE BENT
STRANDS AT GIRDER ENDS



WELDED WIRE PLACEMENT

S = Vertical wire spacing
L = Length of WWR mats
J = Distance between WWR mats

Bill of Reinforcing Steel				
Bars Each Girder				Bending Diagrams
No.	Size/Mark	Length	Shape	
90	3 G1	2'-10"	8	
2	4 G3	3'-10 1/4"	20	
2	4 G4	2'-3"	20	
2	4 G5	2'-8 1/2"	20	
Welded Wire Each Girder				
Mark	Size	S	W	
WWR1	D31	4"	W12 6'-0"	
WWR2	D31	8"	W12 52'-0"	
WWR6	D31	2"	W12 16"	4"

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1", unless otherwise shown.

All bar reinforcement shall be Grade 60.

WWR shall not be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans.

General Notes:

Concrete for prestressed beams shall be Class A-1 with $f'c = 8000$ psi and $f'ci = 6500$ psi.

Use 28 strands, 0.6"Ø Grade 270, with an initial prestress force of 1230 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

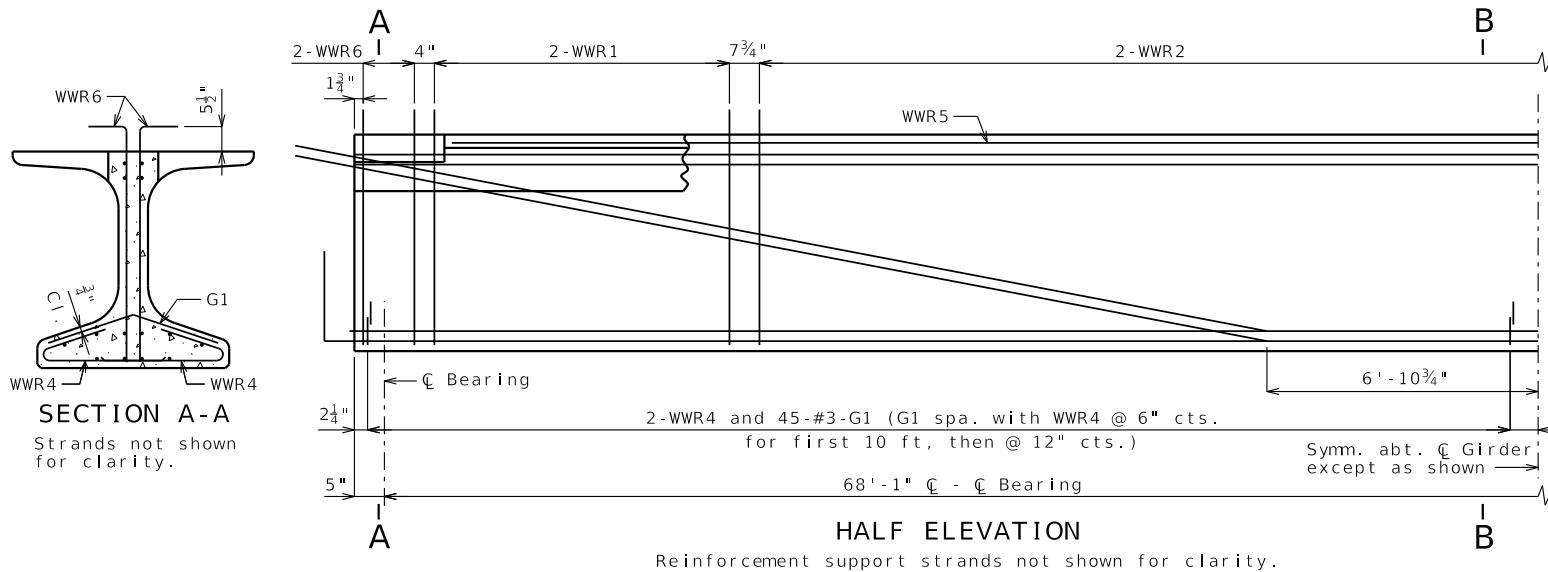
Exterior and interior girders are the same except: coil ties, top flange breakout, application of bond breaker.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 18.

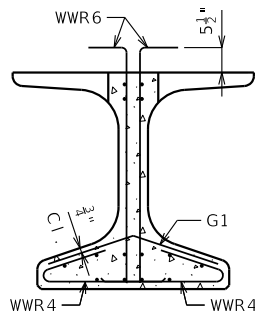
For location of coil ties at concrete diaphragms and integral bents, see Sheets No. 5, 12, and 19.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

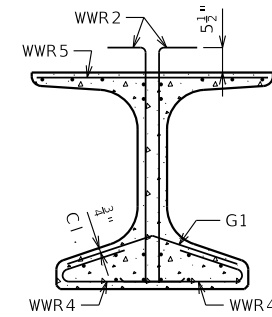


HALF ELEVATION

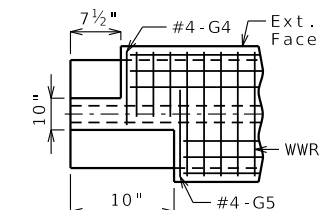
Reinforcement support strands not shown for clarity.



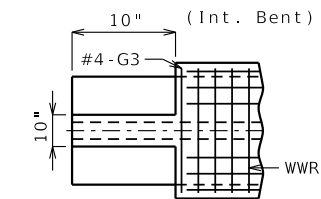
SECTION A-A
Strands not shown for clarity.



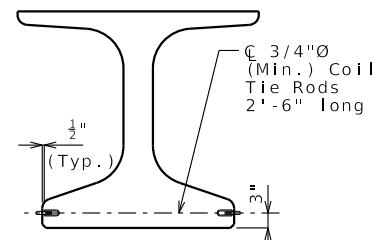
SECTION B-B
Strands not shown for clarity.



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
Rotate 180° for right ext.

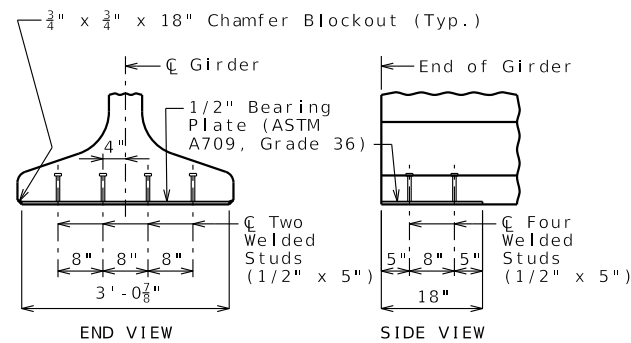


INTERIOR GIRDER AT ALL BENTS
TOP FLANGE BLOCKOUT



CLOSED DIAPHRAGMS AND INTEGRAL BENTS
COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.



BEARING PLATE

NU-GIRDERS - SPANS (2-3) AND (3-4)

Detailed July 2024
Checked Oct. 2024

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

Sheet No. 16 of 32



RODNEY D. RILEY
NUMBER E-26267

DATE PREPARED
12-DEC-2024

ROUTE A STATE MO

DISTRICT BR SHEET NO. 16

COUNTY WARREN

JOB NO. J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 386-4000

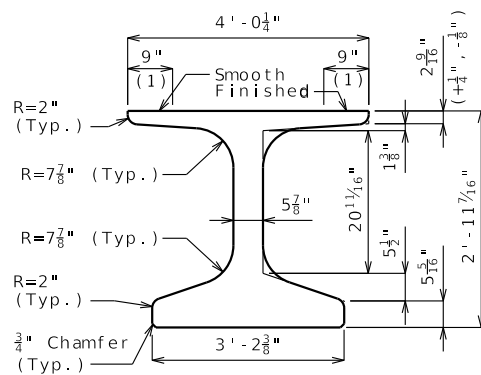
CERTIFICATION AUTHORITY #60704

REV.

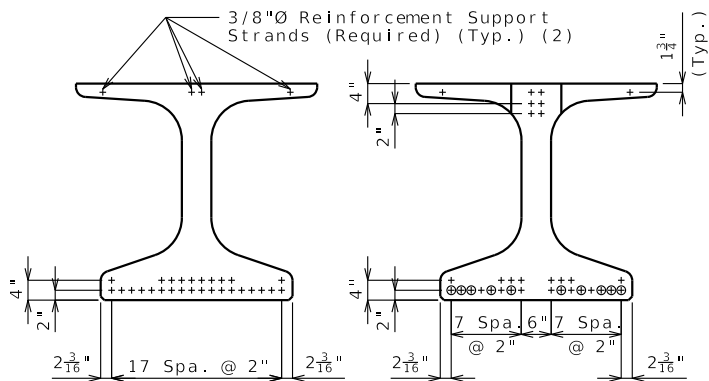
18:0112-DEC-2024

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about \bar{C} Girder. May be moved laterally in pairs.

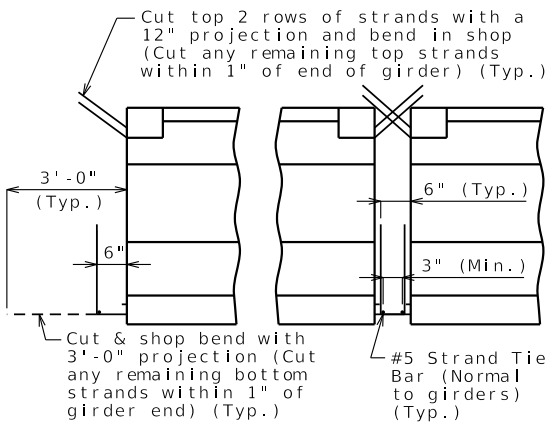


DIMENSIONS

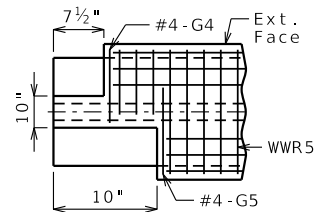


STRAND ARRANGEMENT

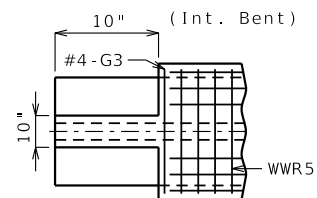
+ Indicates prestressing strand. o Indicates cut & shop bend with 3'-0" projection.



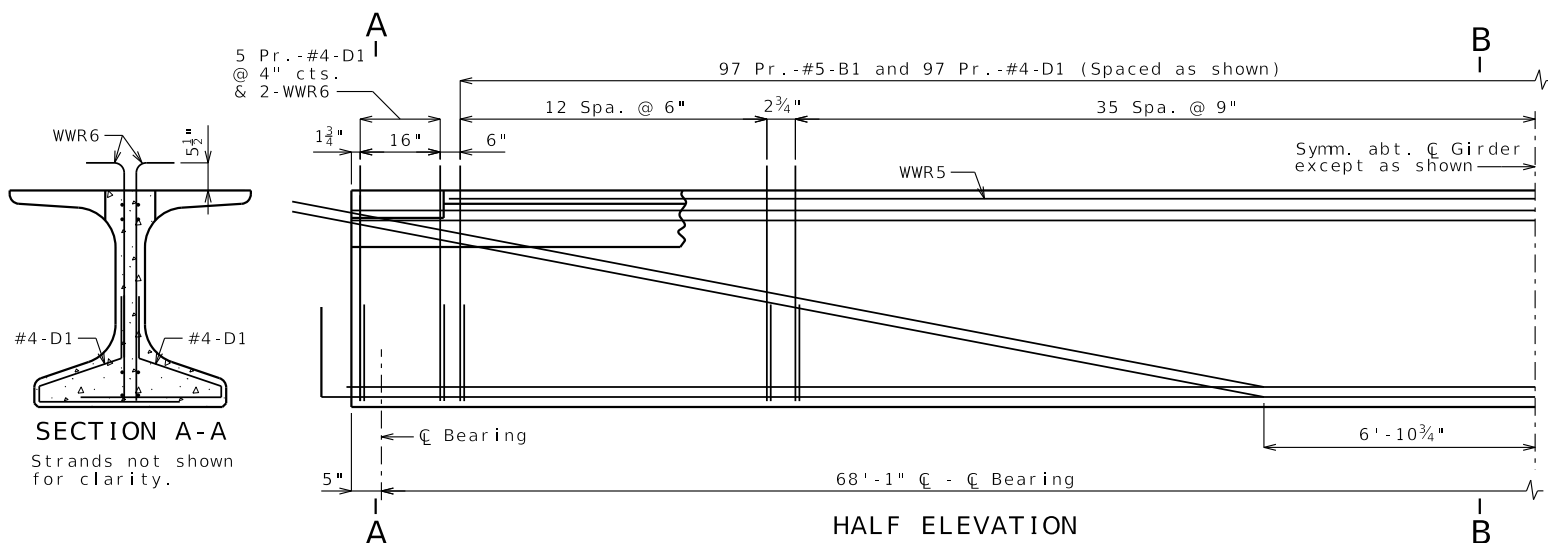
STRANDS AT GIRDER ENDS



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
Rotate 180° for right ext.

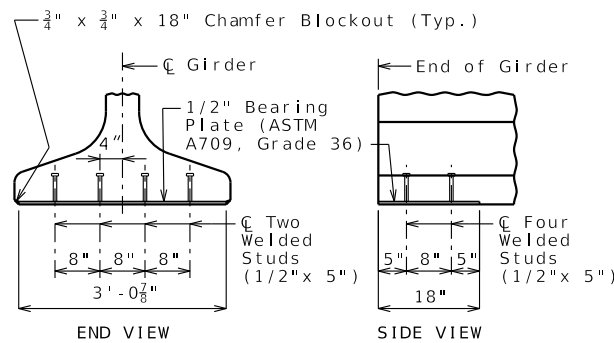


INTERIOR GIRDER AT ALL BENTS TOP FLANGE BLOCKOUT

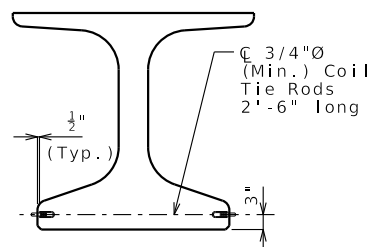


HALF ELEVATION

Reinforcement support strands not shown for clarity.



BEARING PLATE

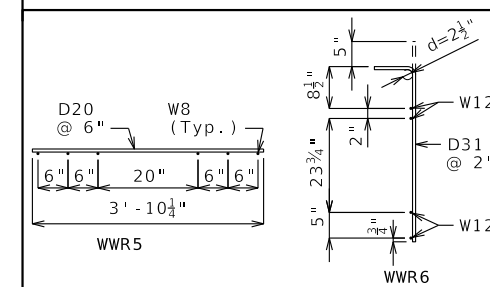


COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.

Bill of Reinforcing Steel - Each Girder				
No.	Size/Mark	Length	Shape	Bending Diagrams
194	5 B1	4'-4"	115	Shape 20
214	4 D1	4'-0"	95	
2	4 G3	3'-10 1/4"	20	Shape 95 Shape 115
2	4 G4	2'-3"	20	
2	4 G5	2'-8 1/8"	20	

Welded Wire Reinforcement - Each Girder



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

All bar reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans.

General Notes:
Concrete for prestressed girders shall be Class A-1 with $f'c = 8000$ psi and $f'ci = 6500$ psi.

Use 28 strands, 0.6"Ø Grade 270, with an initial prestress force of 1230 kips.

Prestressed members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same except: coil ties, top flange blockout, application of bond breaker.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 18.

For location of coil ties at concrete diaphragms and integral bents, see Sheets No. 5, 12, and 19.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.



RODNEY D. RILEY
REGISTERED PROFESSIONAL ENGINEER
12/12/2024 6:33:26 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
BR 17

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

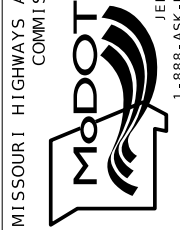
PROJECT NO.

BRIDGE NO.
A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



Jacobs
JACOBS ENGINEERING GROUP
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ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY
#00704

NU-GIRDERS (ALTERNATE REINFORCEMENT) - SPANS (2-3) AND (3-4)

Detailed July 2024
Checked Oct. 2024

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

Sheet No. 17 of 32



RODNEY D. RILEY
 LICENSE NUMBER E-28267
 PROFESSIONAL ENGINEER

12/12/2024 6:33:26 PM
 Rodney D. Riley, PE
 MO-028267

DATE PREPARED
 12-DEC-2024

ROUTE A STATE MO

DISTRICT BR SHEET NO. 18

COUNTY WARREN

JOB NO. J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

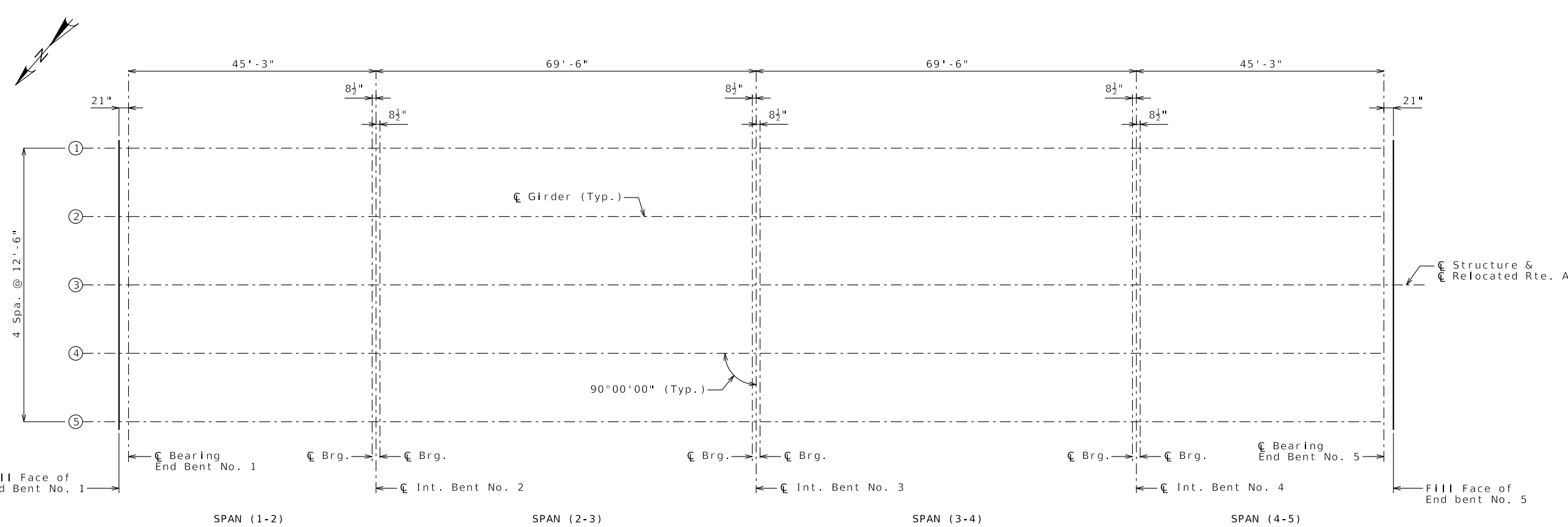
JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST, SUITE 400

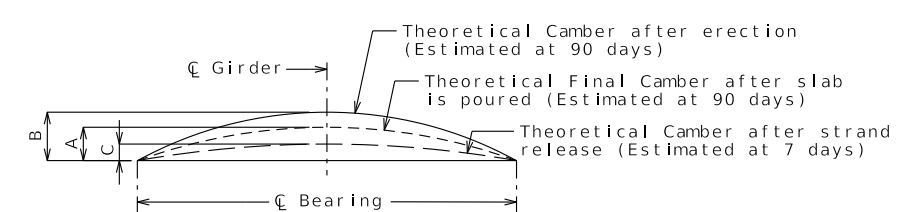
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CERTIFICATE OF AUTHORITY #00704



PLAN SHOWING LAYOUT OF PRESTRESSED GIRDERS
 (Longitudinal dimensions are horizontal)



Girder	Span (1-2)			Span (2-3)			Span (3-4)			Span (4-5)		
	A	B	C	A	B	C	A	B	C	A	B	C
Exterior	3/8"	1/2"	3/8"	1 3/4"	2 3/4"	1 1/2"	1 3/4"	2 3/4"	1 1/2"	3/8"	1/2"	3/8"
Interior	3/8"			1 1/2"			1 1/2"			3/8"		

GIRDER CAMBER DIAGRAM

Conversion Factors for Girder Camber (Estimated at 90 days):

0.25 pt. = 0.7125 x 0.5 pt.

Notes:

If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. The haunch shall be limited to ensure the projecting girder reinforcement or hairpin bar is embedded into the slab at least 2 inches. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Concrete NU-Girder.

FRAMING PLAN

Detailed Oct. 2024
 Checked Oct. 2024

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

Sheet No. 18 of 32

REV.



RODNEY D. RILEY
LICENSE NUMBER
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12-DEC-2024

ROUTE A STATE MO
DISTRICT BR SHEET NO. 19

COUNTY WARREN
JOB NO. J2S3438
CONTRACT ID.

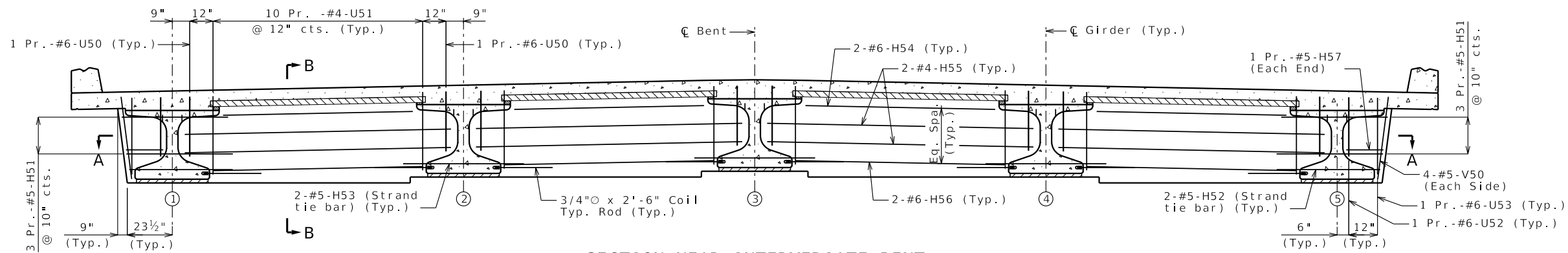
PROJECT NO.

BRIDGE NO. A9374

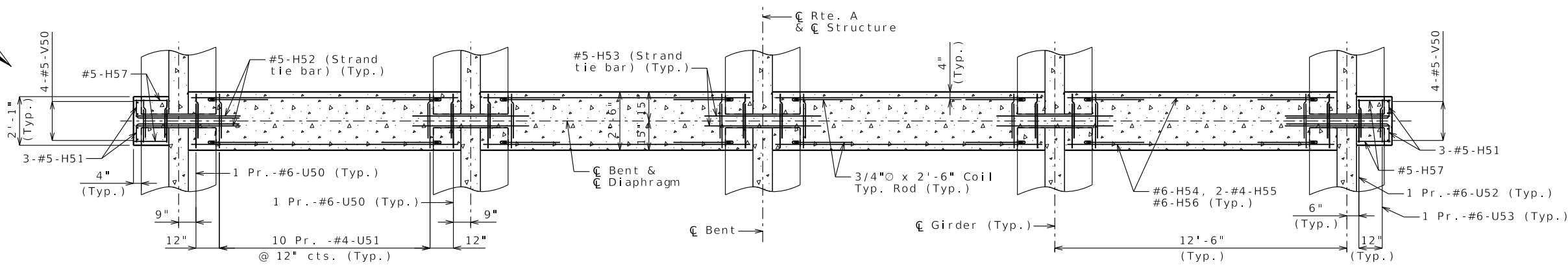
DATE	DESCRIPTION

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

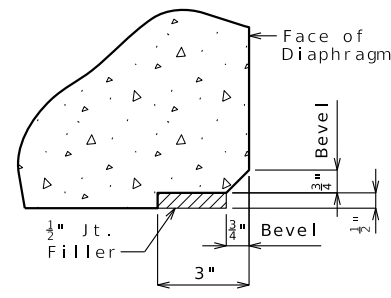
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATE NO. #00704



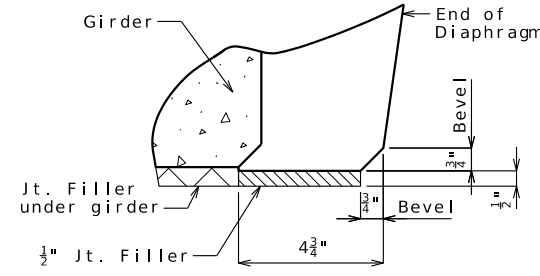
SECTION NEAR INTERMEDIATE BENT
Normal to centerline of structure



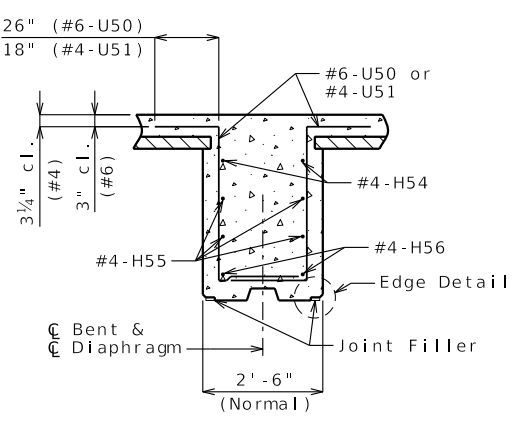
SECTION A-A



EDGE DETAIL



END DETAIL



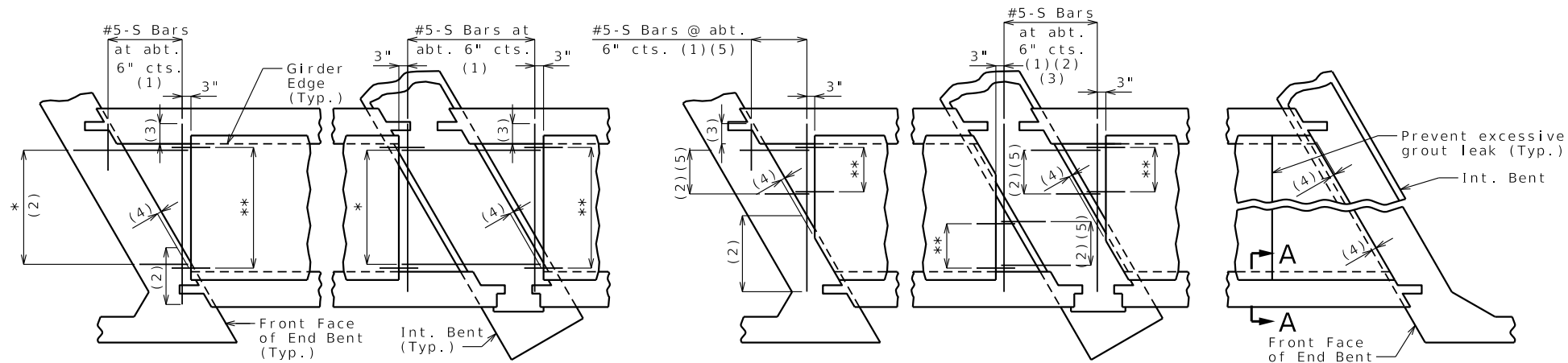
SECTION B-B
(Normal)

Notes:
For location of Strand Tie Bars, see Sheet No. 14 thru 17.
For location and details of Coil Tie Rods, see Sheet No. 14 thru 17.
Diaphragms at Intermediate bents shall be built vertical.
All U-bars in diaphragms are to be placed parallel to centerline of structure.
Work this sheet with Sheets No. 8 & 9.

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. 19 of 32

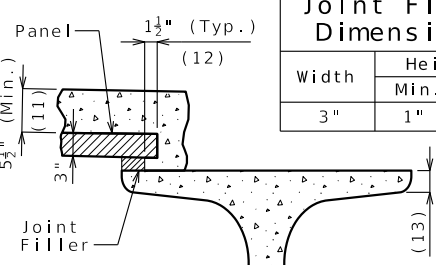


SQUARED END PANELS OR TRUNCATED END PANELS
PLAN SHOWING PANEL PLACEMENT

* #5-S Bars at abt. 9" cts. (1)
** #3-P1 at 12" cts. (End panels only)

SKewed END PANELS

Joint Filler Dimensions		
Width	Height	
	Min.	Max.
3"	1"	4"



SECTION A-A

Reference Notes:

- Plan of Panel Placement:
- (1) S-bars shown are bottom steel in slab between panels and used with squared and truncated end panels only.
 - (2) Extend S-bars 18 inches beyond the front face of end bents and int. bents for squared and truncated end panels only.
 - (3) Extend S-bars 9 inches beyond edge of girder (Typ.).
 - (4) End panels shall be dimensioned 1/2" min. to 1 1/2" max. from the inside face of diaphragm.
 - (5) For truncated end panels, use a min. of #5-S bars at 6" crossings in openings, or min. 4x4-W7xW7.
- Plans of Panels:
- (6) For end panels only, P1 bars shall be 2'-0" in length and embedded 12". P1 bars will not be required for panels at squared integral end bents.
 - (7) #3-P2 bars near edge of panel at bottom (under strands).
 - (8) Use #3-P3 bars if panel is skewed 45° or greater.
 - (9) Any strand 2'-0" or shorter shall have a #4 reinforcing bar on each side of it, centered between strands. Strands 2'-0" or shorter may then be debonded at the fabricator's option.
 - (10) Optional 1/2" x 45° Chamfer one or both sides at bottom.

Section A-A:

- (11) Slab thickness over prestressed panels varies due to girder camber. In order to maintain minimum slab thickness, it may be necessary to raise the grade uniformly throughout the structure. No payment will be made for additional labor or materials required for necessary grade adjustment.
- (12) Contractor shall ensure proper consolidation under and between panels.
- (13) At the contractor's option, the variation in slab thickness over prestressed panels may be eliminated or reduced by increasing and varying the girder top flange thickness. Dimensions shall be shown on the shop drawings.

General Notes:

Prestressed Panels:
Concrete for prestressed panels shall be Class A-1 with $f'c = 6,000$ psi, $f'ci = 4,000$ psi.

The top surface of all panels shall receive a scored finish with a depth of scoring of 1/8" perpendicular to the prestressing strands in the panels.

Prestressing tendons shall be high-tensile strength, uncoated, seven-wire, low-relaxation strands for prestressed concrete in accordance with AASHTO M 203 Grade 270, with nominal diameter of strand = 3/8" and nominal area = 0.085 sq.in. and minimum ultimate strength = 22.95 kips (270 ksi). Larger strands may be used with the same spacing and initial tension.

Initial prestressing force = 17.2 kips/strand.

The method and sequence of releasing the strands shall be shown on the shop drawings.

Suitable anchorage devices for lifting panels may be cast in panels, provided the devices are shown on the shop drawings and approved by the engineer. Panel lengths shall be determined by the contractor and shown on the shop drawings.

When squared end panels are used at skewed bents, the skewed portion shall be cast full depth. No separate payment will be made for additional concrete and reinforcing required.

Support from diaphragm forms is required under the optional skewed end until cast-in-place concrete has reached 3,000 psi compressive strength.

Prestressed panels shall be brought to saturated surface-dry (SSD) condition just prior to the deck pour. There shall be no free standing water on the panels or in the area to be cast.

The prestressed panel quantities are not included in the table of estimated quantities for the slab.

Reinforcing Steel:
All dimensions are out to out.

Hooks and bents shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

If U1 bars interfere with placement of slab steel, U1 loops may be bent over, as necessary, to clear slab steel.

Deformed welded wire reinforcement (WWR) providing a minimum area of reinforcing perpendicular to strands of 0.22 sq in./ft, with spacing parallel to strands sufficient to ensure proper handling, may be used in lieu of the #3-P2 bars shown. Wire diameter shall not be larger than 0.375 inch. The above alternative reinforcement criteria may be used in lieu of the #3-P3 bars, when required, and placed over a width not less than 2 feet.

The following reinforcing steel shall be tied securely to the strands with the following maximum spacing in each direction:
#3-P2 bars at 16 inches.
WWR at 24 inches.

The #3-U1 bars shall be tied securely to #3-P2 bars, to WWR or to strands (when placed between P1 bars) at about 3-foot centers.

Minimum reinforcement steel length shall be 2'-0".

All reinforcement other than prestressing strands shall be epoxy coated.

Precast panels may be in contact with stirrup reinforcing in diaphragms.

S-bars are not listed in the bill of reinforcing.

Cost of S-bars will be considered completely covered by the contract unit price for the slab.

Joint Filler:

Joint filler shall be preformed fiber expansion joint material in accordance with Sec 1057 or expanded or extruded polystyrene bedding material in accordance with Sec 1073.

Use Slab Haunching Diagram on Sheet No. 21 for determining thickness of joint filler within the limits noted in the table of Joint Filler Dimensions.

Thicker material may be used on one or both sides of the girder to reduce cast-in-place concrete thickness to within tolerances.

The same thickness of preformed fiber expansion joint material shall be used under any one edge of any panel except at locations where top flange thickness may be stepped. The maximum change in thickness between adjacent panels shall be 1/2 inch. The polystyrene bedding material may be cut with a transition to match haunch height above top of flange.

Joint filler shall be glued to the girder. When thickness exceeds 1 1/2 inches, the joint filler shall be glued top and bottom. The glue used shall be the type recommended by the joint filler manufacturer.

Edges of panels shall be uniformly seated on the joint filler before slab reinforcement is placed.



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ROUTE STATE
A MO
DISTRICT SHEET NO.
BR 20

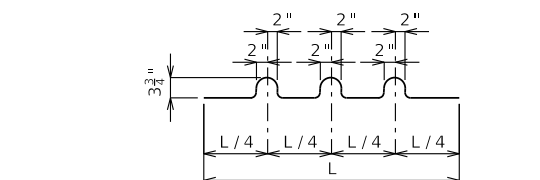
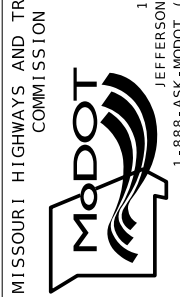
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WARREN
JOB NO.
J2S3438
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

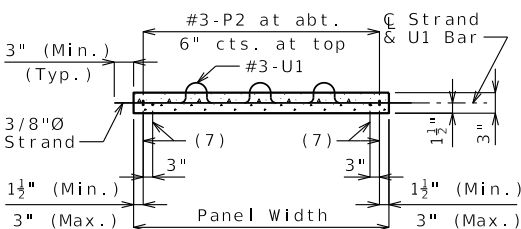
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

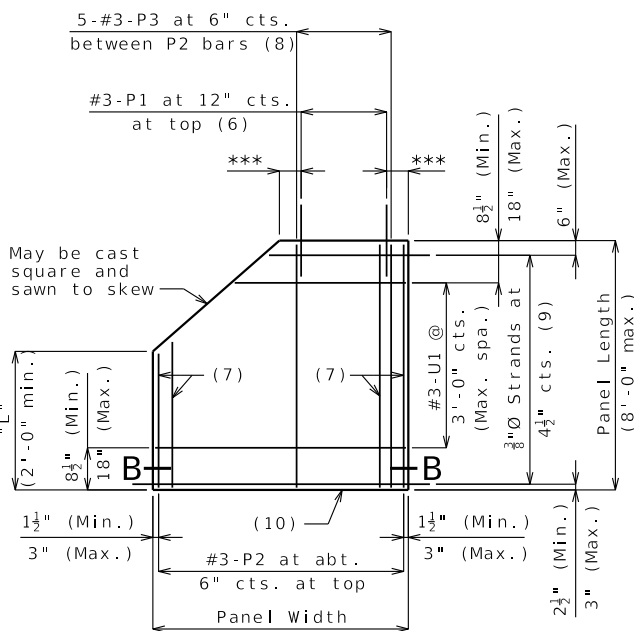


BENDING DIAGRAM FOR U1 BAR

U1 Bars may be oriented at right angles to location and spacing shown. U1 Bars shall be placed between P1 bars.

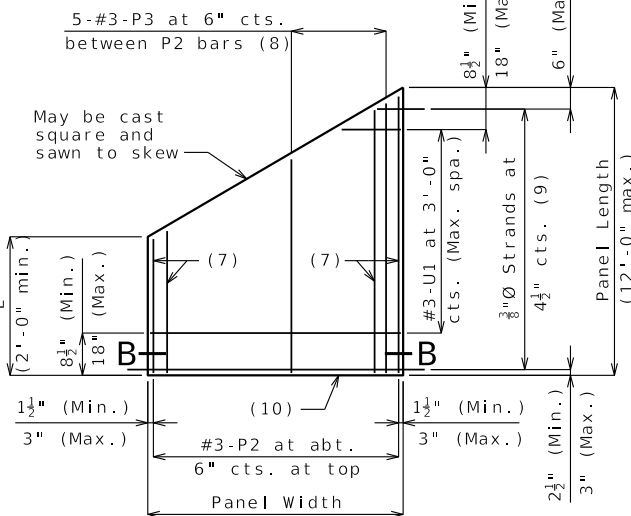


SECTION B-B

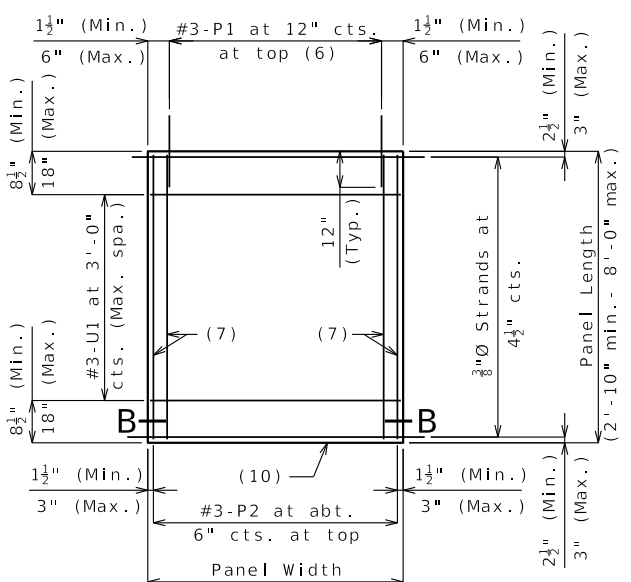


PLAN OF OPTIONAL TRUNCATED END PANEL

*** 3" (Min.), 6" (Max.)



PLAN OF OPTIONAL SKEWED END PANEL



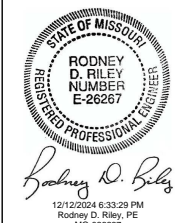
PLAN OF SQUARED PANEL

PRESTRESSED PANELS

Detailed July 2024
Checked Oct. 2024

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

Sheet No. 20 of 32



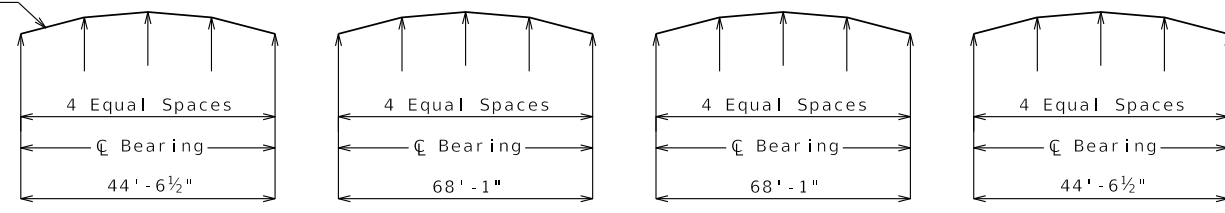
RODNEY D. RILEY
LICENSED PROFESSIONAL ENGINEER
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Rodney D. Riley, PE
MO-028267

DATE PREPARED
12-DEC-2024
ROUTE STATE
A MO
DISTRICT SHEET NO.
BR 21
COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

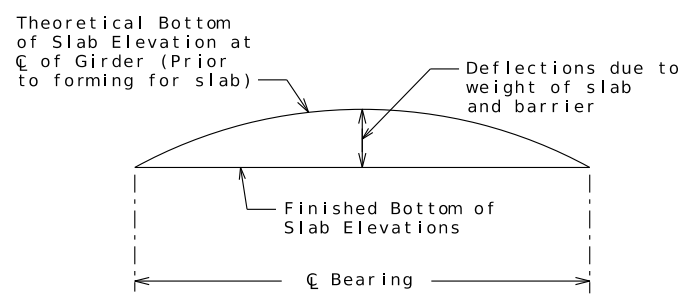
Girder No. 1	1 1/2"	1 1/2"	1 5/8"	1 7/8"	2 1/4"	2 3/4"	2 3/4"	2 3/4"	1 7/8"	1 1/2"	2"	3"	3"	2"	2 7/8"	2 7/8"	2 7/8"	2"	1 5/8"	1 1/2"
Girder No. 2	1 1/2"	1 1/2"	1 5/8"	1 7/8"	2 1/4"	2 3/4"	2 3/4"	2"	1 5/8"	2 1/8"	2 1/8"	3"	3"	2 1/8"	2 1/8"	2 3/8"	2 3/8"	2"	1 3/4"	1 1/2"
Girder No. 3	1 1/2"	1 1/2"	1 5/8"	1 7/8"	2 1/4"	2 3/4"	2 3/4"	2"	1 5/8"	2 1/8"	2 1/8"	3"	3"	2 1/8"	2 1/8"	2 3/8"	2 3/8"	2"	1 3/4"	1 1/2"
Girder No. 4	1 1/2"	1 1/2"	1 5/8"	1 7/8"	2 1/4"	2 3/4"	2 3/4"	2"	1 5/8"	2 1/8"	2 1/8"	3"	3"	2 1/8"	2 1/8"	2 3/8"	2 3/8"	2"	1 3/4"	1 1/2"
Girder No. 5	1 1/2"	1 1/2"	1 5/8"	1 7/8"	2 1/4"	2 3/4"	2 3/4"	1 7/8"	1 1/2"	2"	3"	3"	2"	1 1/2"	2"	2 7/8"	2 7/8"	2"	1 5/8"	1 1/2"



THEORETICAL SLAB HAUNCHING DIAGRAM (ESTIMATED AT 90 DAYS)

If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Concrete Girder.



TYPICAL SLAB ELEVATIONS DIAGRAM

Girder Number	Span (1-2) (44'-6 1/2" C Brg. - C Brg.)				Span (2-3) (68'-1" C Brg. - C Brg.)				Span (3-4) (68'-1" C Brg. - C Brg.)				Span (4-5) (44'-6 1/2" C Brg. - C Brg.)							
	C Brg.	.25	.50	.75	C Brg.	C Brg.	.25	.50	.75	C Brg.	C Brg.	.25	.50	.75	C Brg.	C Brg.	.25	.50	.75	C Brg.
1	913.42	913.50	913.57	913.62	913.67	913.67	913.80	913.88	913.90	913.86	913.86	913.94	913.96	913.92	913.83	913.83	913.81	913.79	913.74	913.69
2	913.67	913.75	913.82	913.88	913.92	913.92	914.06	914.15	914.16	914.11	914.11	914.20	914.23	914.18	914.08	914.08	914.07	914.04	914.00	913.94
3	913.90	913.98	914.05	914.11	914.15	914.15	914.29	914.38	914.39	914.34	914.34	914.43	914.46	914.41	914.31	914.31	914.30	914.27	914.23	914.17
4	913.67	913.75	913.82	913.88	913.92	913.92	914.06	914.15	914.16	914.11	914.11	914.20	914.23	914.18	914.08	914.08	914.07	914.04	914.00	913.94
5	913.42	913.50	913.57	913.62	913.67	913.67	913.80	913.88	913.90	913.86	913.86	913.94	913.96	913.92	913.86	913.86	913.81	913.79	913.74	913.69

Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab (including precast panel) and barrier.

SLAB HAUNCH AND ELEVATION DATA

Detailed July 2024
Checked Oct. 2024

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

Sheet No. 21 of 32

DESCRIPTION

DATE

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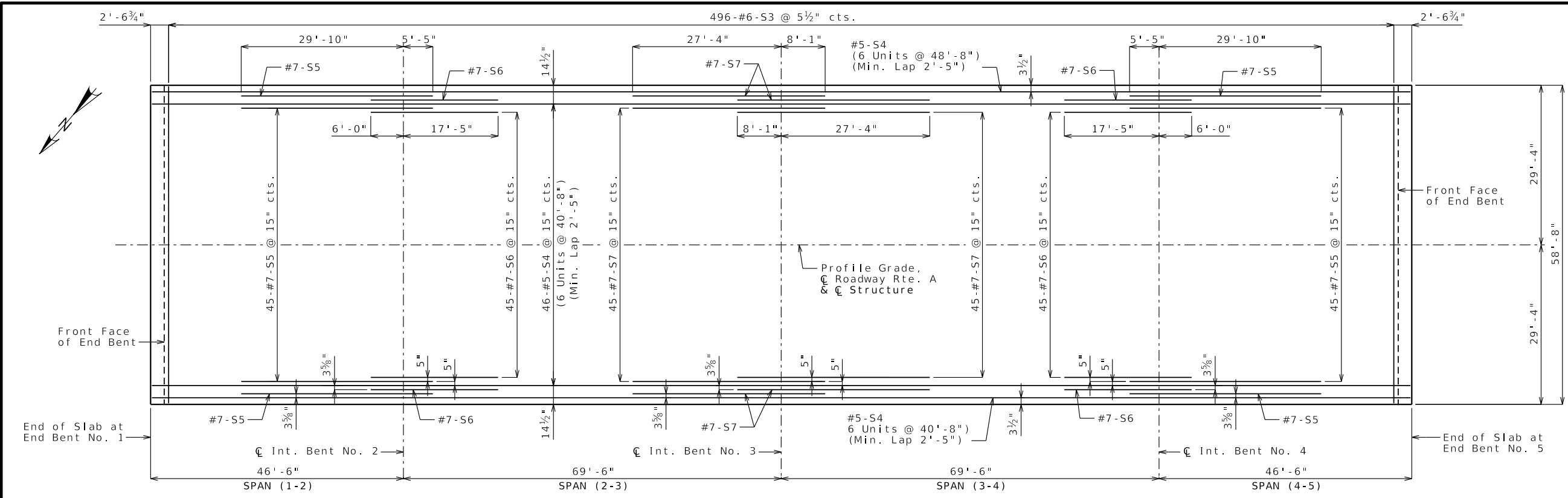
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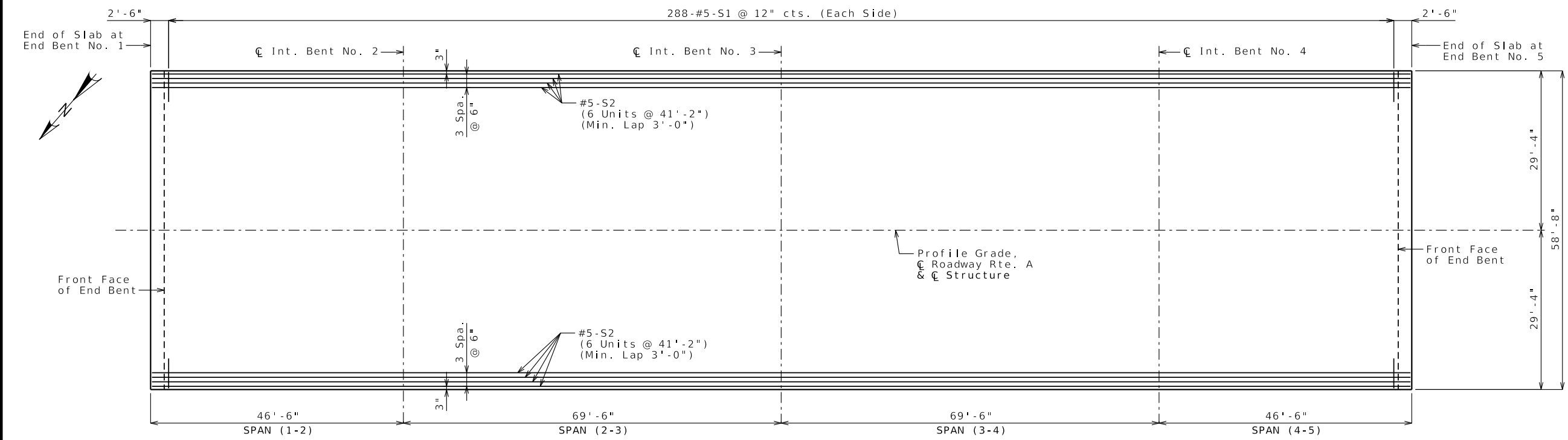
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CERTIFICATE AUTHORITY
#60704

REV.



PLAN OF SLAB SHOWING TOP REINFORCEMENT



PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT

PLAN OF SLAB SHOWING REINFORCEMENT

- General Notes:
- Longitudinal dimensions shown are horizontal.
 - For Section Thru Slab, and Slab Pouring Sequence, see Slab Details, Sheet No. 23.
 - For Details and Reinforcement of Type D Barrier not shown, see Sheet No. 24.
 - For Details of Precast Prestressed Panels, see Sheet No. 20.
 - For Theoretical Slab Haunching Diagram, see Sheet No. 21.
 - For Theoretical Bottom of Slab Elevations, see Sheet No. 21.



RODNEY D. RILEY
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 REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED: 12-DEC-2024

ROUTE	STATE
A	MO
DISTRICT	SHEET NO.
BR	22
COUNTY	
WARREN	
JOB NO.	
J2S3438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A9374	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
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Jacobs

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Detailed Aug. 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 22 of 32



RODNEY D. RILEY
 LICENSE NUMBER E-26267
 MISSOURI REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
 12-DEC-2024

ROUTE STATE
 A MO
 DISTRICT SHEET NO.
 BR 23

COUNTY
 WARREN
 JOB NO.
 J2S3438
 CONTRACT ID.

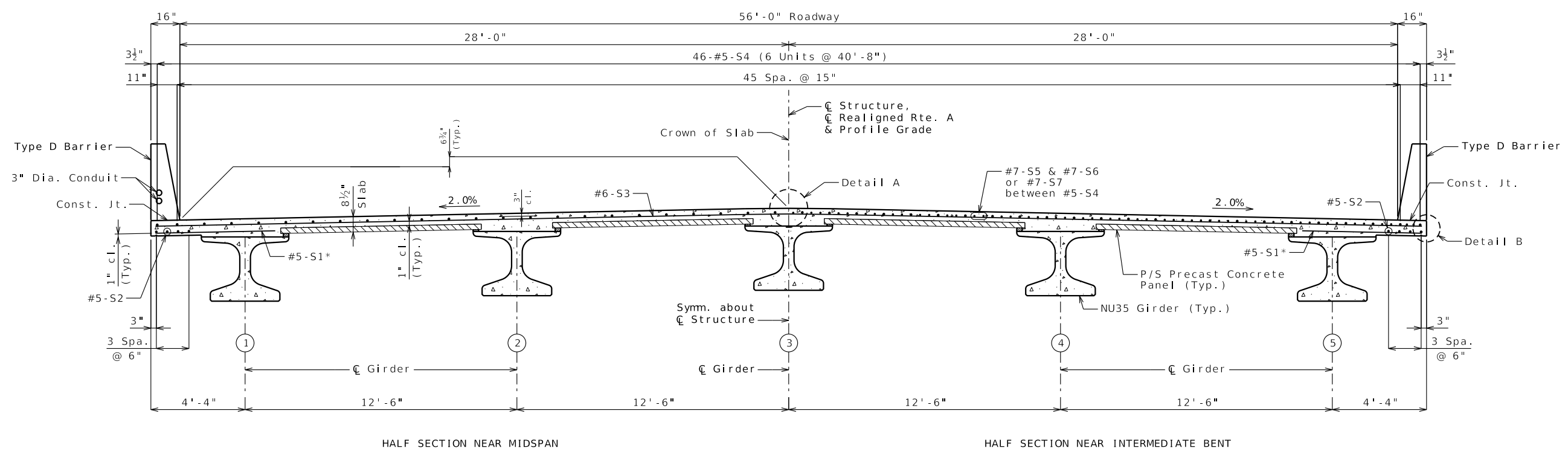
PROJECT NO.

BRIDGE NO.
 A9374

DATE	DESCRIPTION

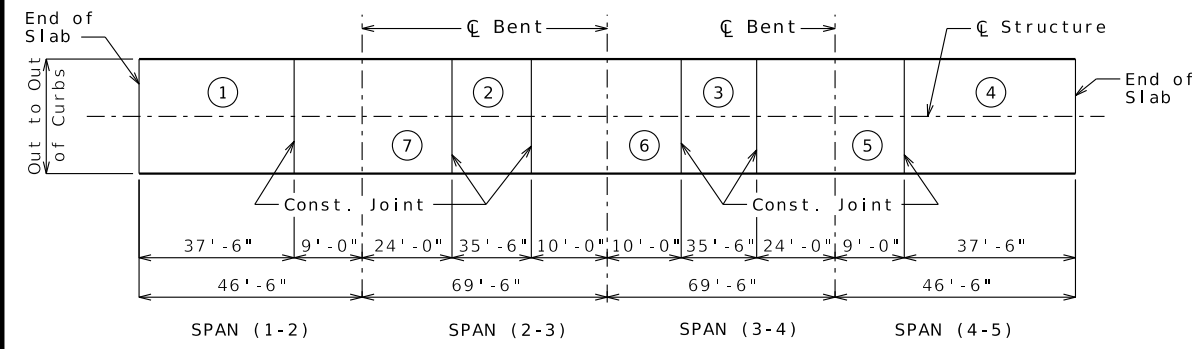
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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 105 WEST CAPITOL JEFFERSON CITY, MO 65102
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JACOBS ENGINEERING GROUP
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TYPICAL SECTION
 (Looking Upstation)

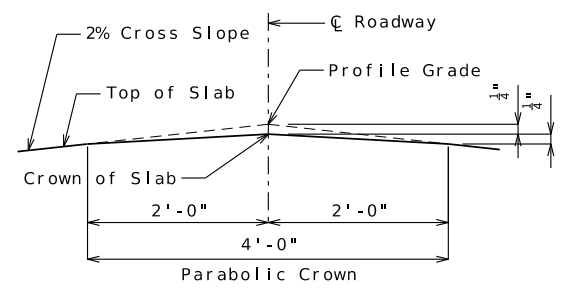
* Alternate bar shape available, see barrier sheet.



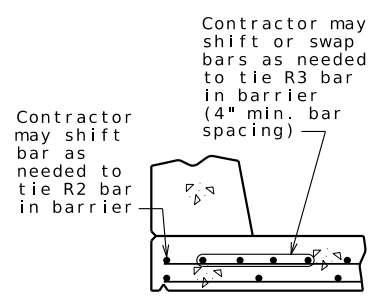
Sequence of Pours	Direction							Min. Rate of Pour Cu. Yds./Hr.	
	With Retarder								
Basic Sequence	1	2	3	4	5	6	7	25	
Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703.									
Alternate A Pours	1	7 + 2	6 + 3	5 + 4	2 to End				25
Alternate B Pours	1 + 7 + 2	1 to 6	6 + 3	5 + 4	3 to End				25
Alternate C Pours	1 + 7 + 2	End to 6		6 + 3 + 5 + 4			2 to End		25
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4							End to End	25

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.
 The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

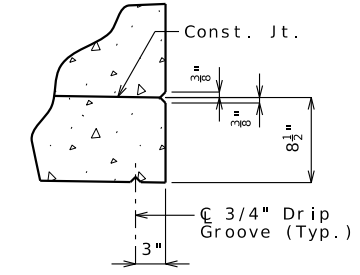
SLAB POURING SEQUENCE



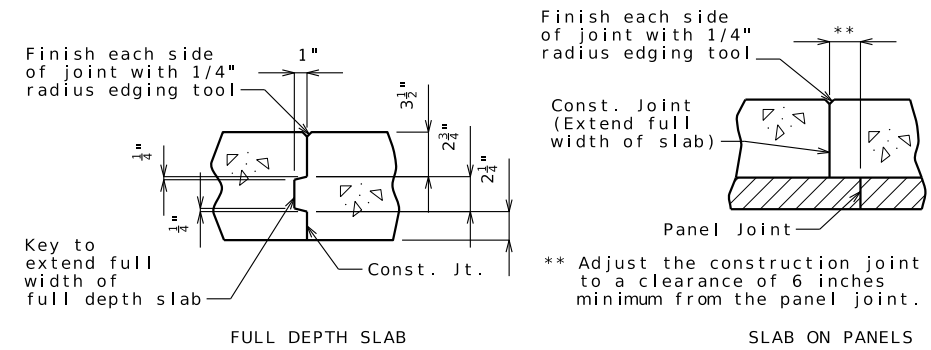
DETAIL A



OPTIONAL SHIFTING TOP BARS AT BARRIER



DETAIL B



SLAB CONSTRUCTION JOINT

Notes:

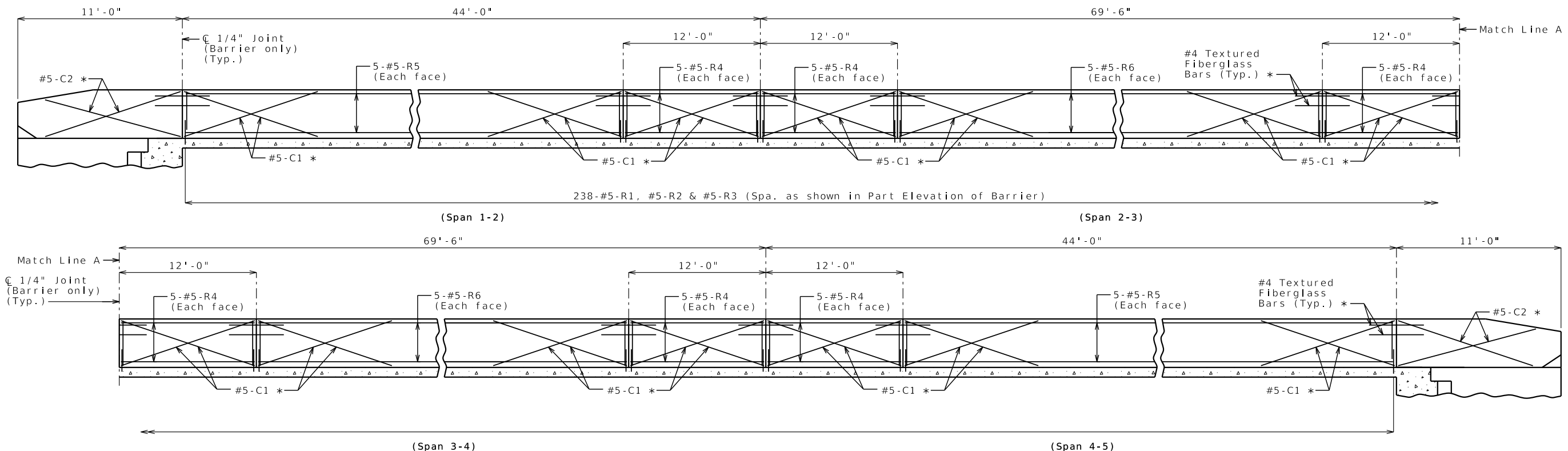
- For General Notes, see Sheet No. 2.
- All Horizontal Dimensions are perpendicular to C Rte. A.
- For details of precast prestressed panels, see Sheet No. 20.
- For reinforcement of barrier not shown, see Sheet No. 24.
- For Theoretical Bottom of Slab Elevations, Girder Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. 21.
- For Plan of Slab Showing Reinforcement, Details and Notes not shown here, see Sheet No. 22.
- For details of Conduit System in Barrier, see Sheet No. 27.

SLAB DETAILS

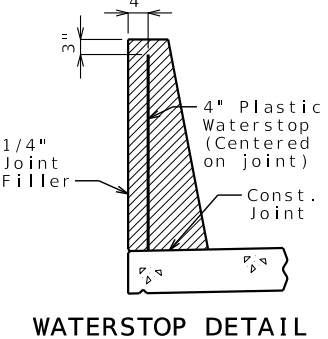
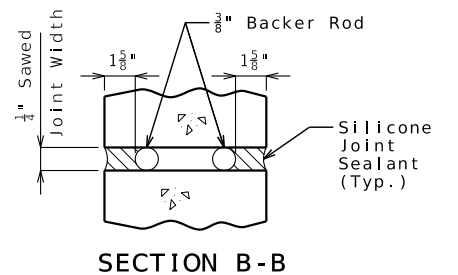
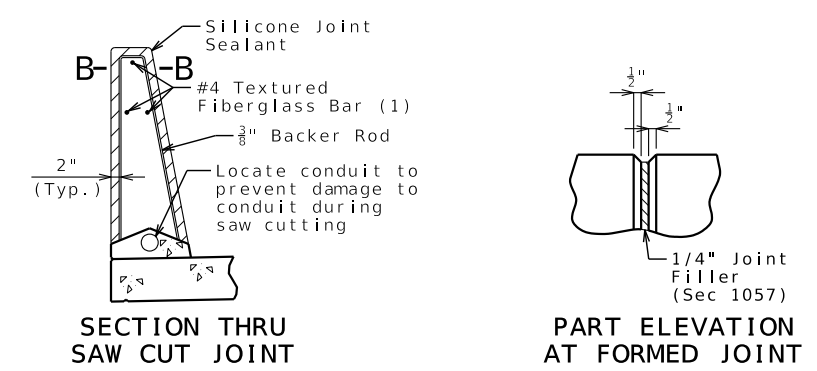
Detailed July 2024
 Checked Oct. 2024

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

Sheet No. 23 of 32



ELEVATION OF BARRIER
(Left barrier shown, right barrier similar)
Longitudinal dimensions are horizontal.

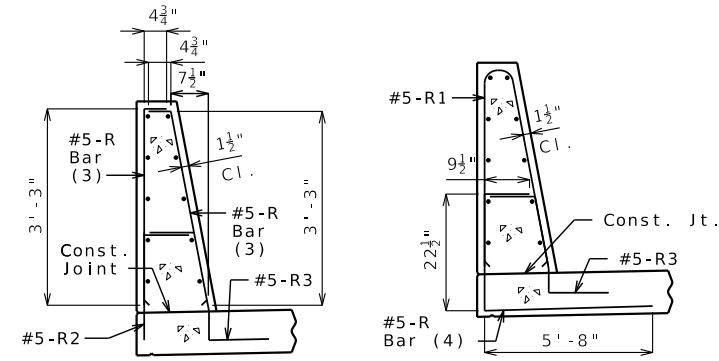
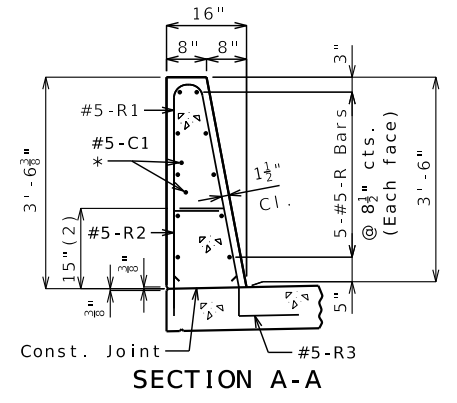
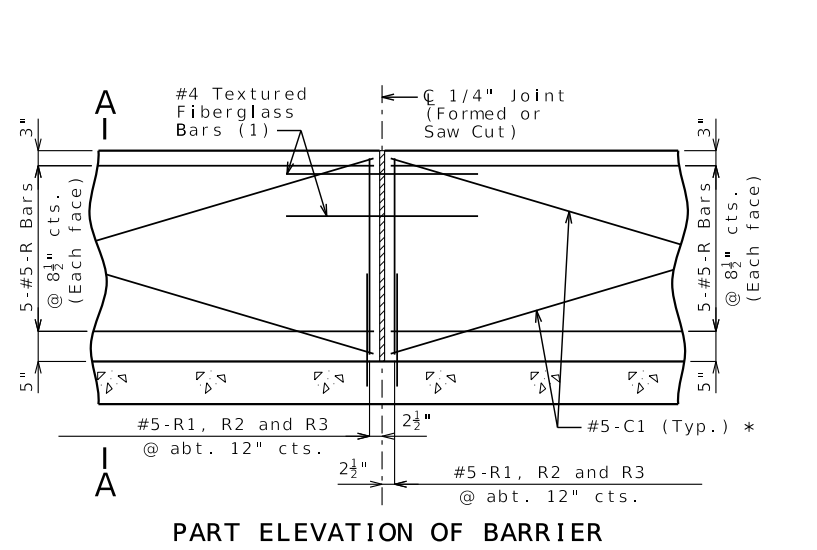


Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

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

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.



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

(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.)

(4) The R2 bar and #5 bottom transverse slab bar in cantilever (prestressed panels only) combination may be furnished as one bar as shown, at the contractor's option.

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

TYPE D BARRIER

Detailed July 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 24 of 32



RODNEY D. RILEY
LICENSE NUMBER E-28267
12/12/2024 6:33:31 PM
Rodney D. Riley, PE
MO-028267

DATE PREPARED
12-DEC-2024

ROUTE **A** STATE **MO**

DISTRICT **BR** SHEET NO. **24**

COUNTY
WARREN

JOB NO.
J253438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs

JACOBS ENGINEERING GROUP
ST. LOUIS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY #60704



RODNEY D. RILEY
 LICENSED PROFESSIONAL ENGINEER
 STATE OF MISSOURI
 LICENSE NUMBER E-26267

DATE PREPARED
 12-DEC-2024

ROUTE STATE
 A MO

DISTRICT SHEET NO.
 BR 25

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

JACOBS ENGINEERING GROUP

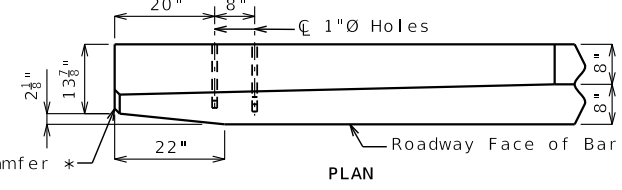
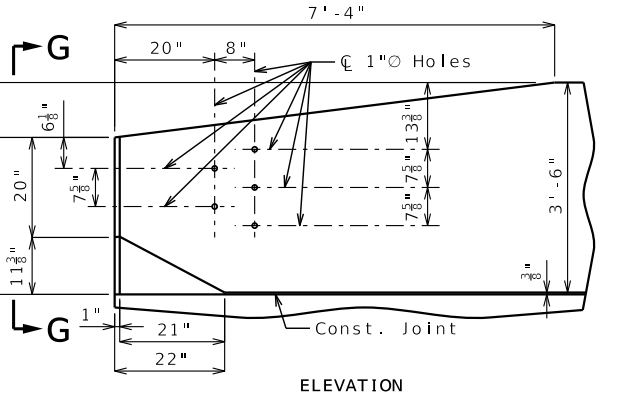
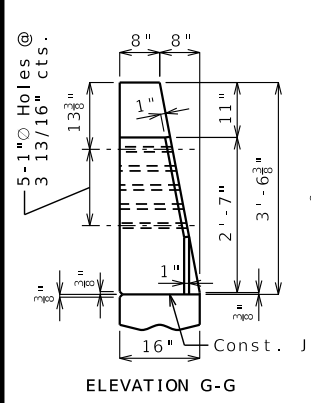
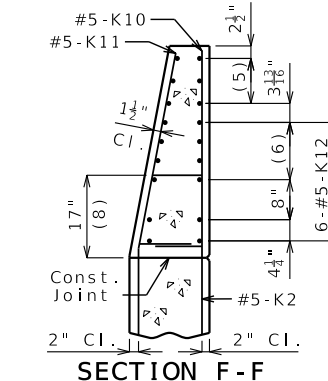
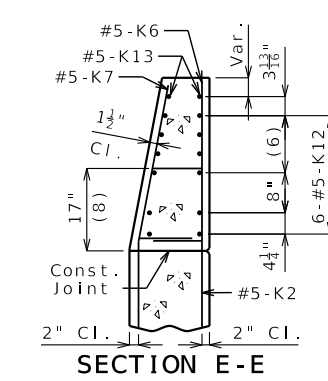
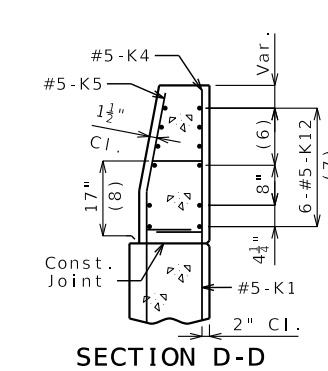
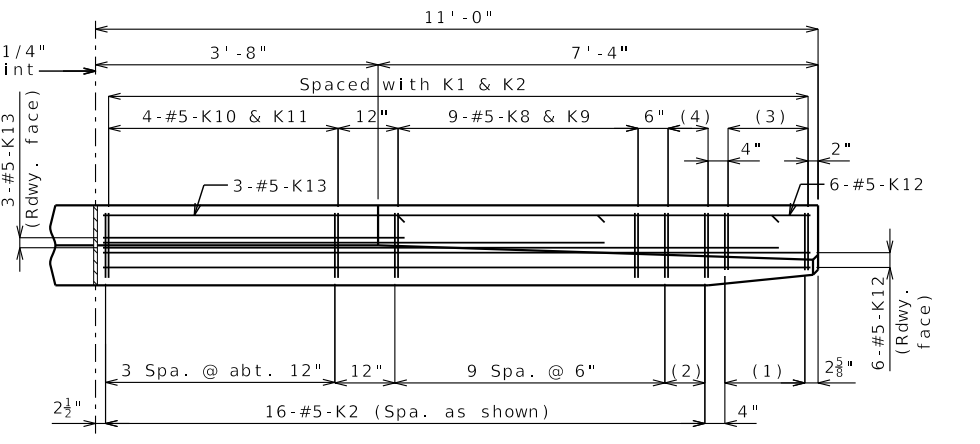
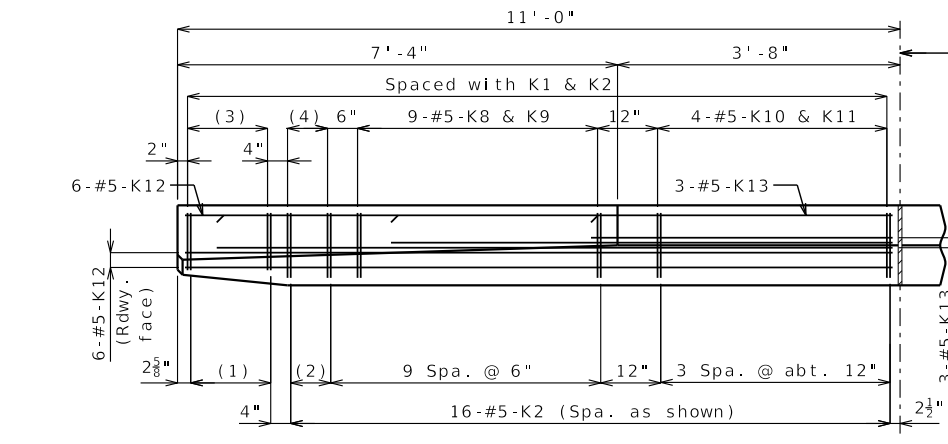
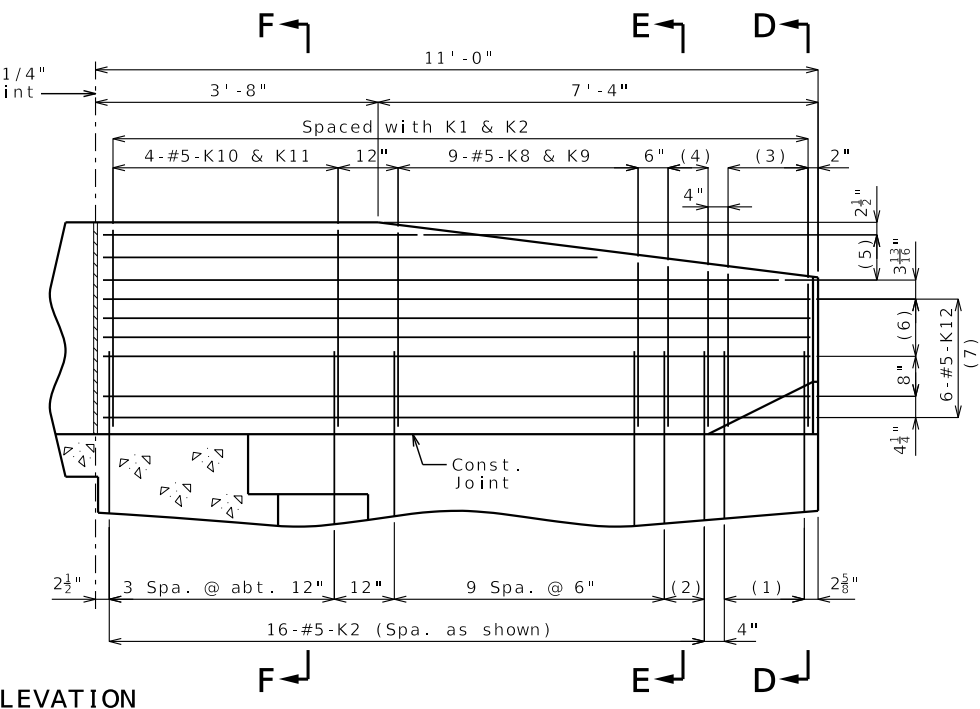
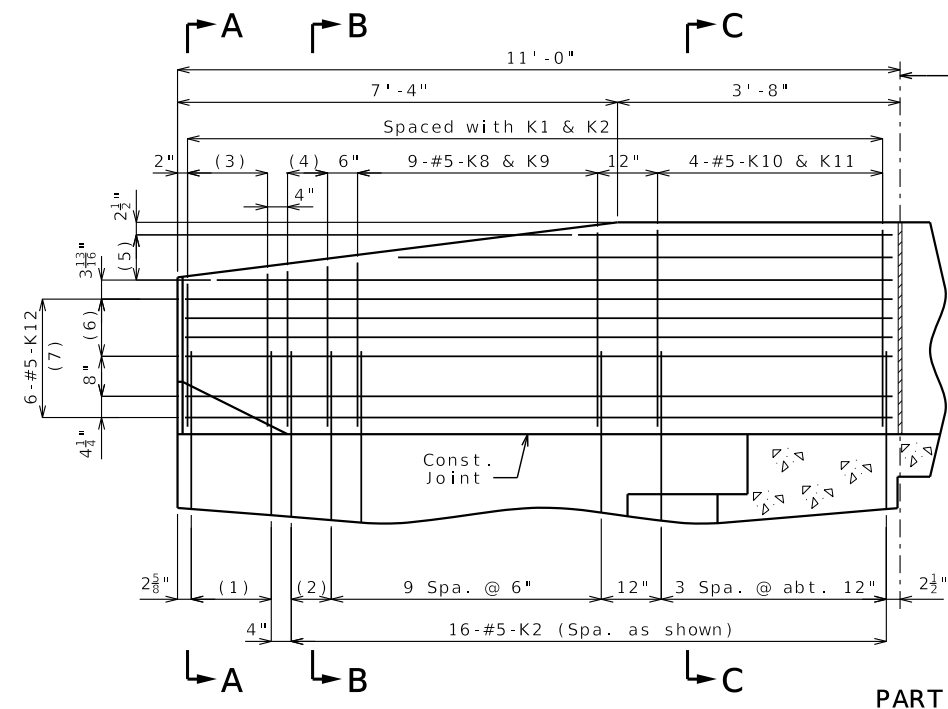
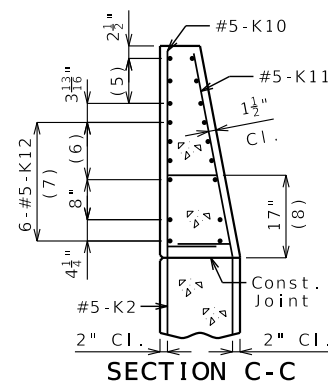
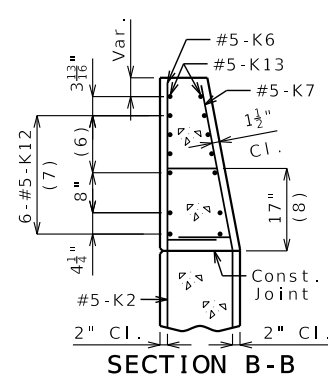
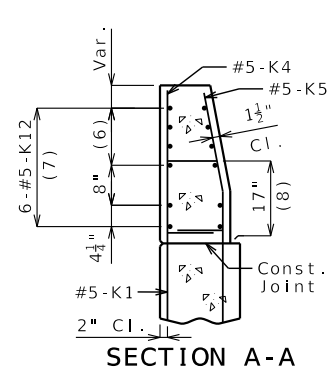
1001 HIGHLANDS PLAZA DR. WEST SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 366-4000

CERTIFICATE AUTHORITY

#60704



DETAILS OF GUARD RAIL ATTACHMENT

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

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.

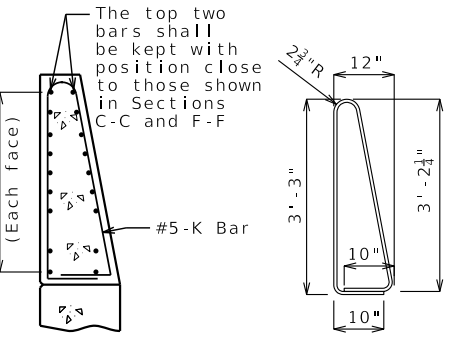
Reinforcing Steel:

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

Conduit system in Left Barrier not shown for clarity. For details of Conduit System, see Sheet No. 27.

TYPE D BARRIER AT END BENTS

(Left barrier shown, right barrier similar)



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

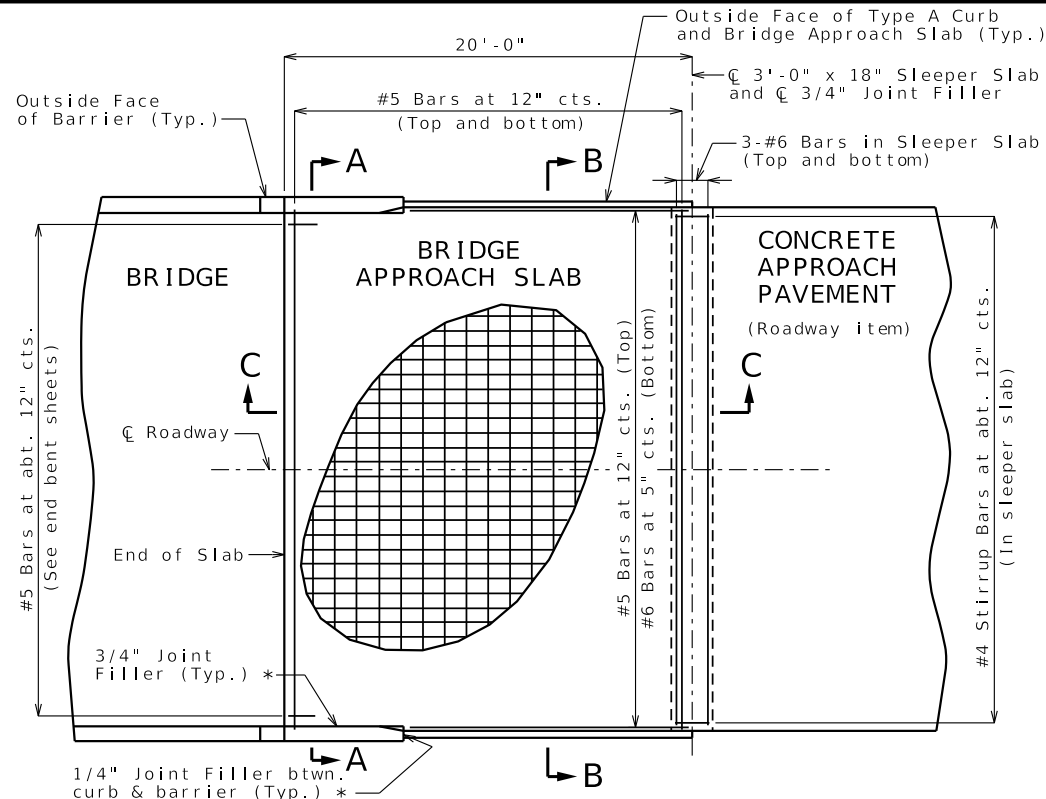
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

All dimensions are out to out.

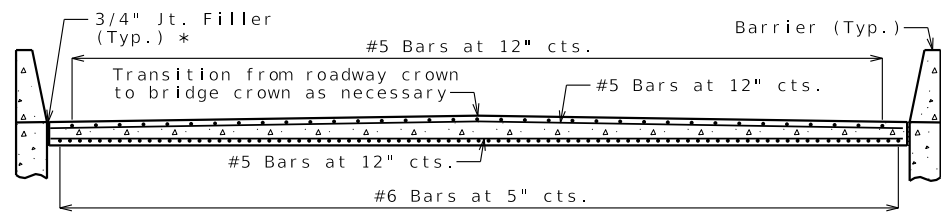
Detailed July 2024
 Checked Oct. 2024

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

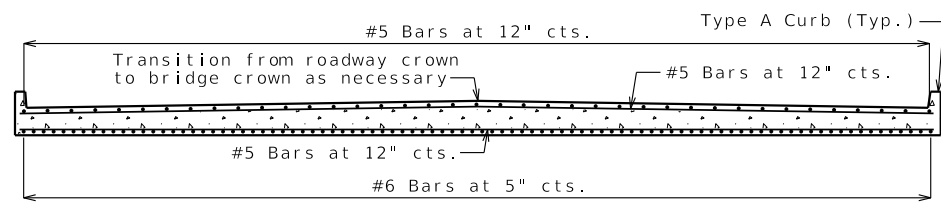
Sheet No. 25 of 32



PART PLAN SHOWING REINFORCEMENT

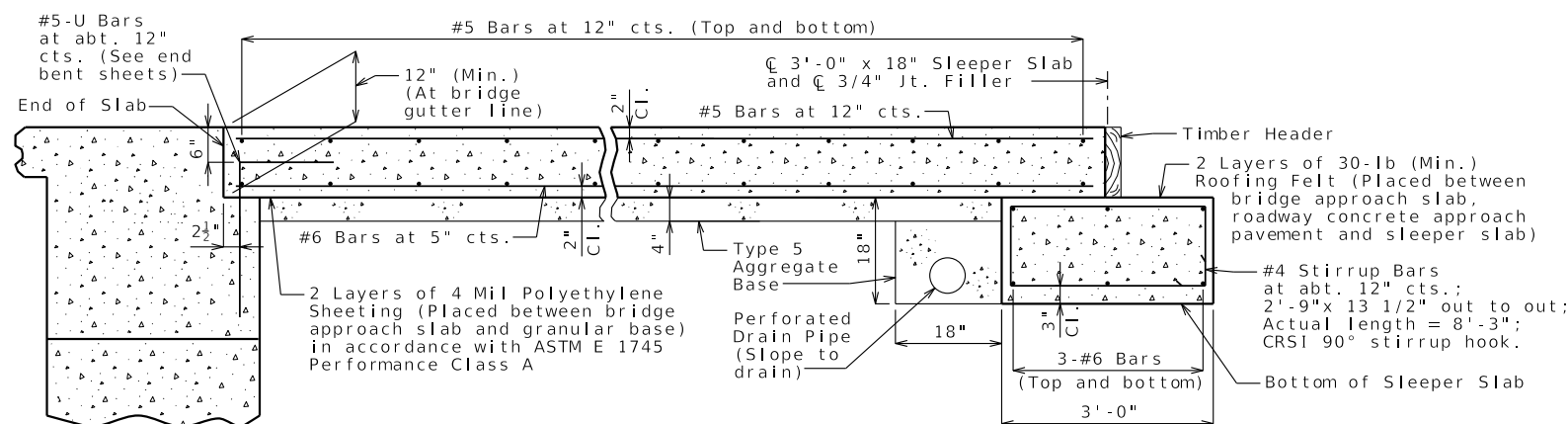


SECTION A-A



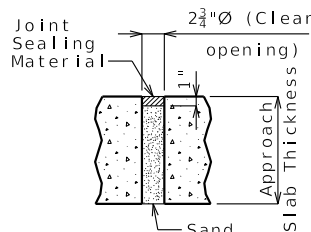
SECTION B-B

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

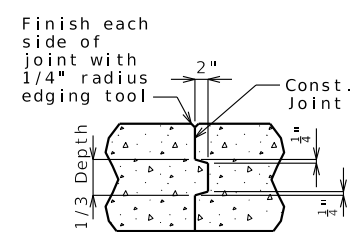


SECTION C-C

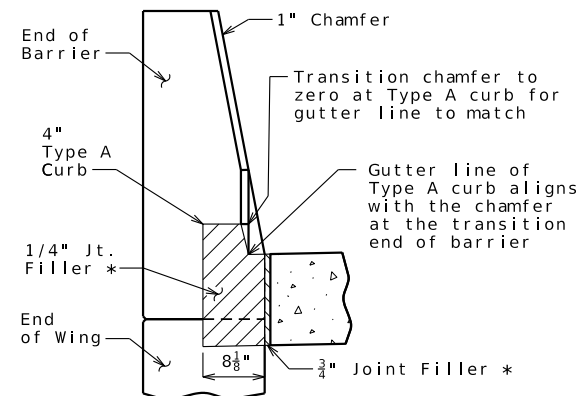
BRIDGE APPROACH SLAB (MAJOR)



UNDERSEAL ACCESS HOLE DETAIL
(If required)



CONSTRUCTION JOINT DETAIL



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 epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by 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.

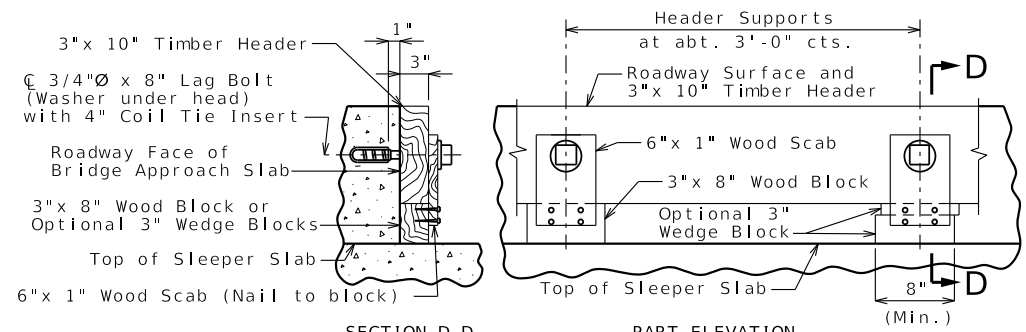
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

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.

STATE OF MISSOURI
RODNEY D. RILEY
LICENSED PROFESSIONAL ENGINEER
E-29267

Rodney D. Riley
12/12/2024 6:33:32 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024

ROUTE A	STATE MO
DISTRICT BR	SHEET NO. 26
COUNTY WARREN	
JOB NO. J253438	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9374	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 396-4000
CERTIFICATION AUTHORITY
#60704



RODNEY D. RILEY
 LICENSE NUMBER
 E-26267

12/12/2024 6:33:35 PM
 Rodney D. Riley, PE
 MO-026267

DATE PREPARED
 12-DEC-2024

ROUTE
 A MO

DISTRICT SHEET NO.
 BR 27

COUNTY
 WARREN

JOB NO.
 J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

JACOBS ENGINEERING GROUP

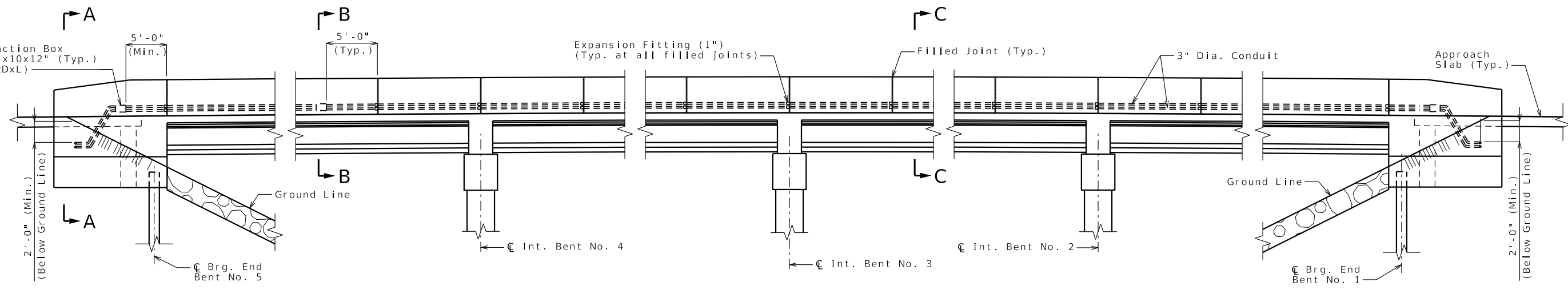
1001 HIGHLANDS PLAZA DR. WEST SUITE 400

ST. LOUIS, MISSOURI 63110

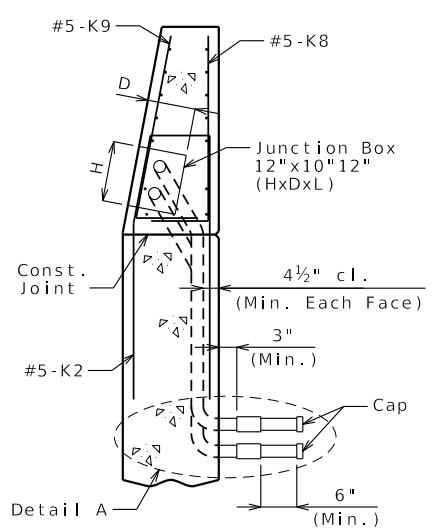
PHONE: (314) 386-4000

CERTIFICATE AUTHORITY

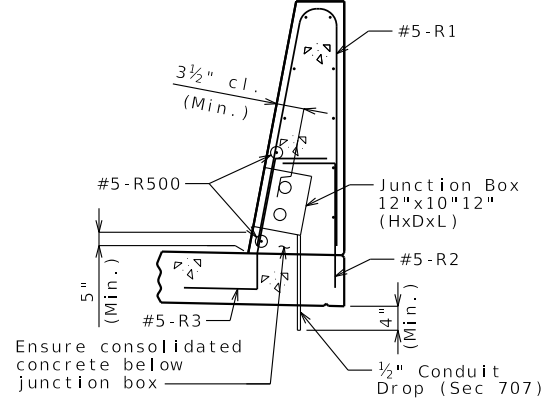
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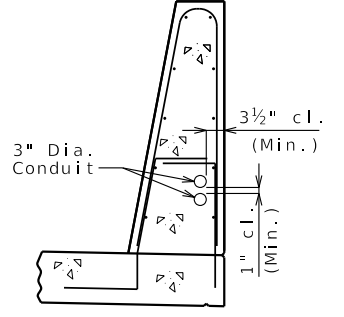
PART ELEVATION OF BARRIER
 SHOWING LOCATION OF CONDUIT
 (Left Barrier Only)



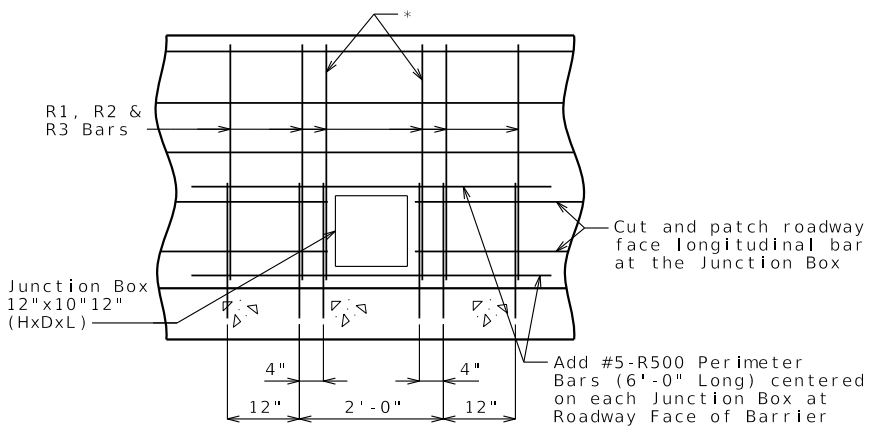
SECTION A-A



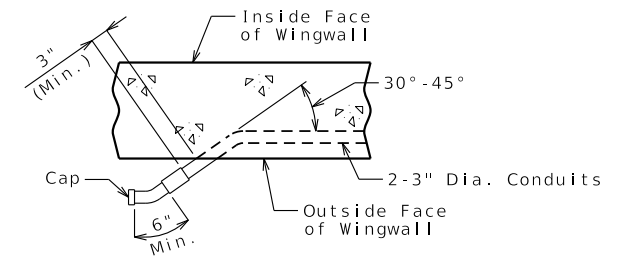
SECTION B-B



SECTION C-C



PART ELEVATION OF SAFETY BARRIER CURB
 SHOWING PERIMETER STEEL AT JUNCTION BOXES
 * At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers or 1 set of #5-K2, #5-K8 and #5-K9 bars in the Wingwall Barriers and shift bars to clear Junction Boxes.



DETAIL A

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 120 degrees F and a maximum temperature of 110 degrees F.

Minimum clearance preferred between conduits placed in the barrier shall be 1".

All end bent and barrier junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the barrier. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the barrier.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements. Expected thermal movement at each deflection coupling is equal to 5/8" of rise and fall from a setting temperature of 60 degrees F.

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.

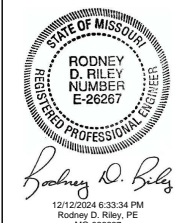
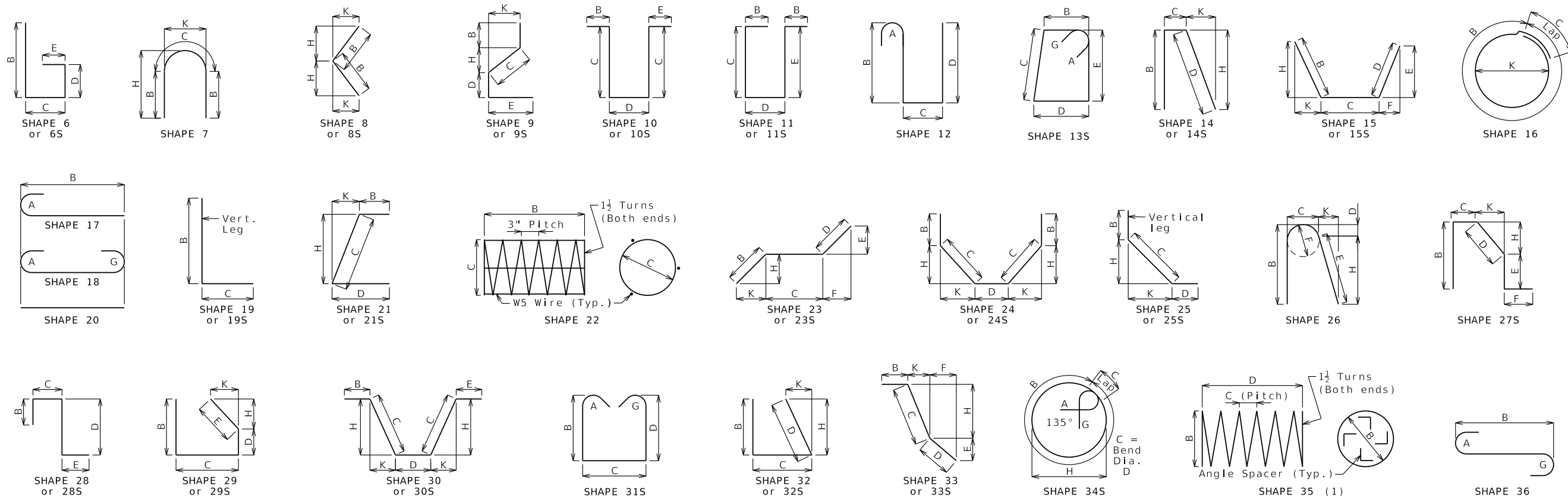
Junction boxes shall be placed in and at the roadway face of barrier.

Wiring and fixtures shall be furnished and installed by others.

DETAILS OF CONDUIT SYSTEM

Detailed Aug. 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 27 of 32



DATE PREPARED
12-DEC-2024

ROUTE STATE
A MO

DISTRICT SHEET NO.
BR 28

COUNTY
WARREN

JOB NO.
J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

Finished Bend Diameters D and Hook Dimensions

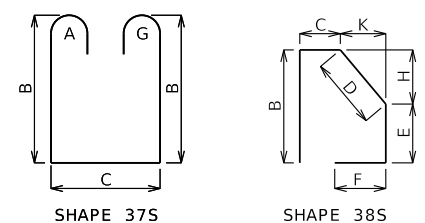
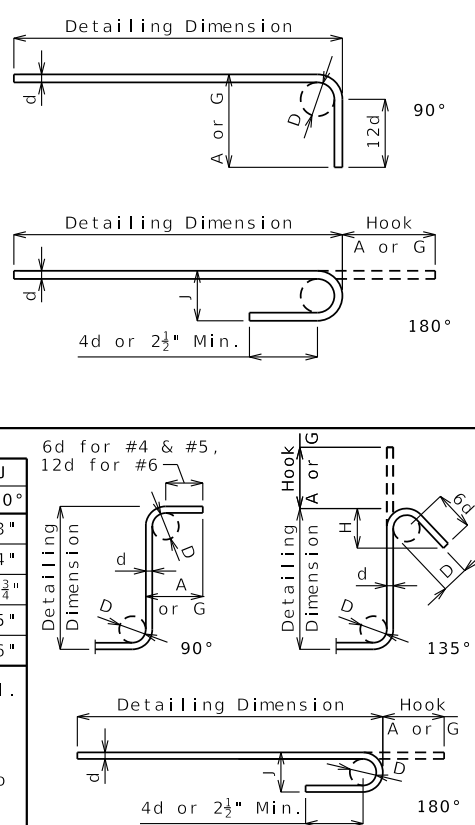
Standard Pin Bend Shapes

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 1/2"	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°		
#4	2	2"	4 1/2"	4 1/2"	5"	2 5/8"	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 3/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 5/8"	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. (1) Shall be a deformed or plain spiral bar or wire.

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.

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	
	Plain	Epoxy	Slab		Barrier	Slip Form	Plain	Epoxy
			Plain	Epoxy				
W5	0	0	0	0	0	0	0	0
4	0	10,947	0	2,078	0	0	0	13,025
5	0	2,952	0	19,731	12,953	774	0	36,410
6	0	6,447	0	51,605	0	0	0	58,052
7	0	0	0	18,077	0	0	0	18,077
8	0	0	0	4,650	0	0	0	4,650
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
By Type	0	20,346	0	96,141	12,953	774	0	130,214

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

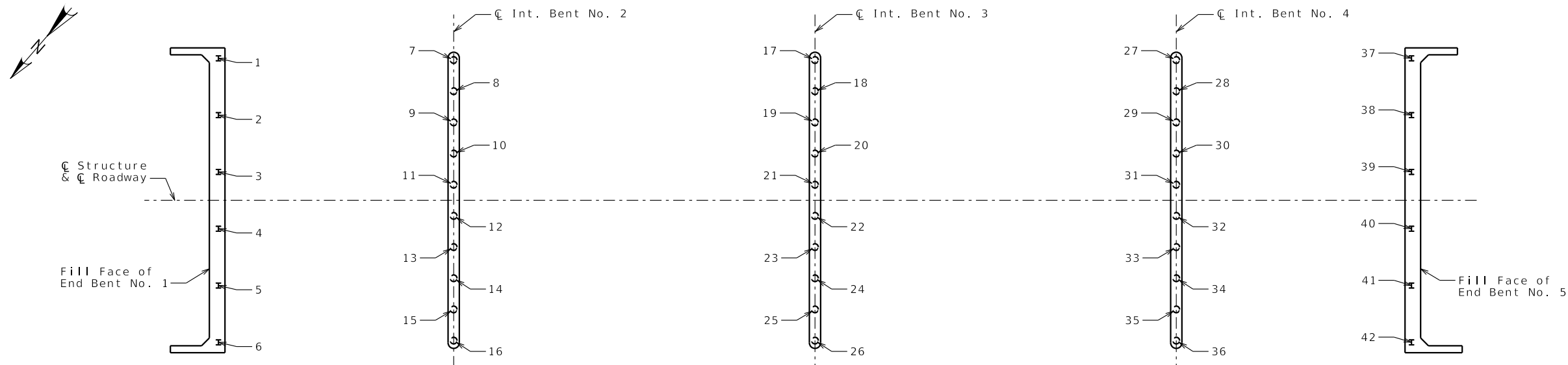
Detailed Sep. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 28 of 32

Jacobs

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PHONE: (314) 385-4000
CERTIFICATION AUTHORITY #60704

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



PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE DATA

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
End Bent No. 1					
1					
2					
3					
4					
5					
6					
Int. Bent No. 2					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
Int. Bent No. 3					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
Int. Bent No. 4					
27					
28					
29					
30					
31					
32					
33					

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
Int. Bent No. 4 (Cont.)					
34					
35					
36					
End Bent No. 5					
37					
38					
39					
40					
41					
42					

Note:
 Indicate in remarks column:
 A. Pile type and grade
 B. Batter
 C. Driven to practical refusal
 D. PDA test pile
 E. Minimum tip elevation controlled
 (Use when actual blow count is less than PDA blow count due to minimum tip elevation requirement. A plus sign (+) shall be placed after the PDA nominal axial compressive resistance value indicating actual value is higher than PDA value.)

This sheet to be completed by MoDOT construction personnel.



RODNEY D. RILEY
 LICENSE NUMBER E-26267
 PROFESSIONAL ENGINEER

DATE PREPARED
 12-DEC-2024

ROUTE A STATE MO

DISTRICT BR SHEET NO. 31

COUNTY WARREN

JOB NO. J2S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9374

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

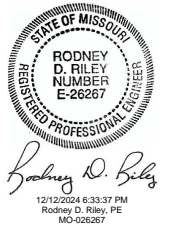
JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST, SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 365-4000

CERTIFICATE AUTHORITY #00704



DATE PREPARED
12-DEC-2024

ROUTE STATE
A MO
DISTRICT SHEET NO.
BR 32

COUNTY
WARREN
JOB NO.
J2S3438
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9374

DATE	DESCRIPTION

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

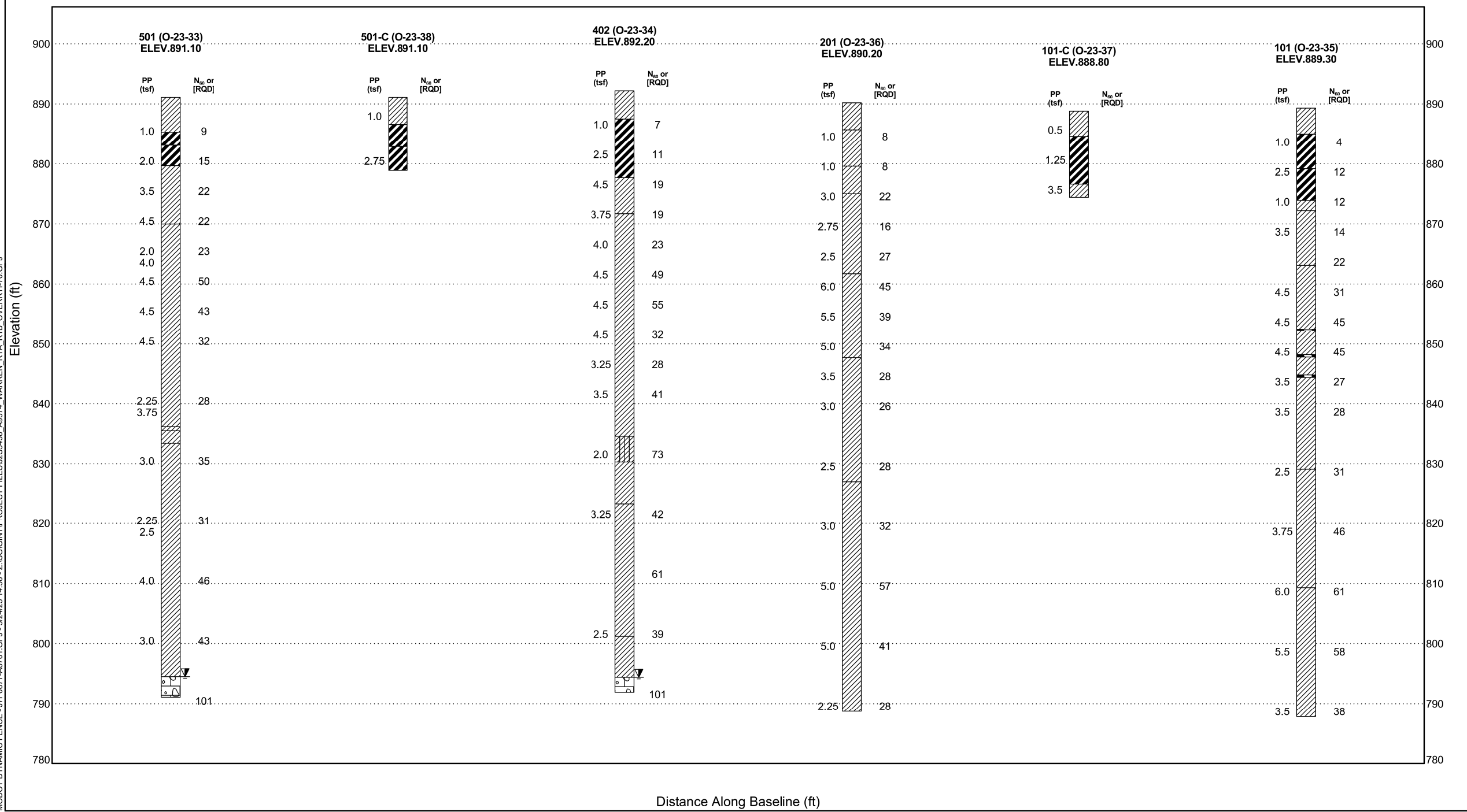
Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DR, WEST SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 385-4000
 CERTIFICATE NO. #00704

SUBSURFACE DIAGRAM

MoDOT Geotechnical Section
 1617 Missouri Blvd.
 Jefferson City, MO 65109

PROJECT NAME Bridge Replacement
 PROJECT LOCATION Over I-70
 CLIENT
 PROJECT NUMBER J2S3438

- USCS Low Plasticity Clay
- USCS High Plasticity Clay
- USCS Low Plasticity Silty Clay
- Highly Weathered Limestone
- Boulders and cobbles



BORING DATA

Note: For locations of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions. Sheet No. 32 of 32

DESIGN DESIGNATION

A.A.D.T. - 2023 = 2989
 A.A.D.T. - 2043 = 3720
 D.H.V. = 9%
 T = 7%
 V = 35 M.P.H.
 D = 50%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

NO RIGHT OF WAY REQUIRED

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

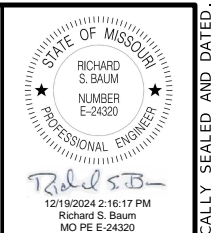
ROUTE E

MONTGOMERY COUNTY

SECTIONS 1 & 12 T47N R4W

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (6 SHEETS)---	2
QUANTITIES (QU) (6 SHEETS)-----	3
PLAN SHEETS (PL)-----	4-5
PROFILE SHEETS (PR)-----	6-11
REFERENCE POINTS (RP)-----	12
COORDINATE POINTS (CP)-----	13
SPECIAL SHEETS (SS)	
ALIGNMENT DETAILS-----	14-17
INTERSECTION DETAILS-----	18-19
JOINT LAYOUT DETAILS-----	20
TRAFFIC CONTROL SHEETS (TC)-----	21-35
EROSION CONTROL SHEETS (EC)-----	36-37
LIGHTING (LT)-----	38-41
SIGNING (SN)-----	42-51
PAVEMENT MARKING (PM)-----	52-53
BRIDGE DRAWINGS (B)	
A9375-----	1-31
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DATE PREPARED
19-DEC-2024
 ROUTE STATE
E MO
 DISTRICT SHEET NO.
NE 1
 COUNTY
MONTGOMERY
 JOB NO.
J2S3439
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

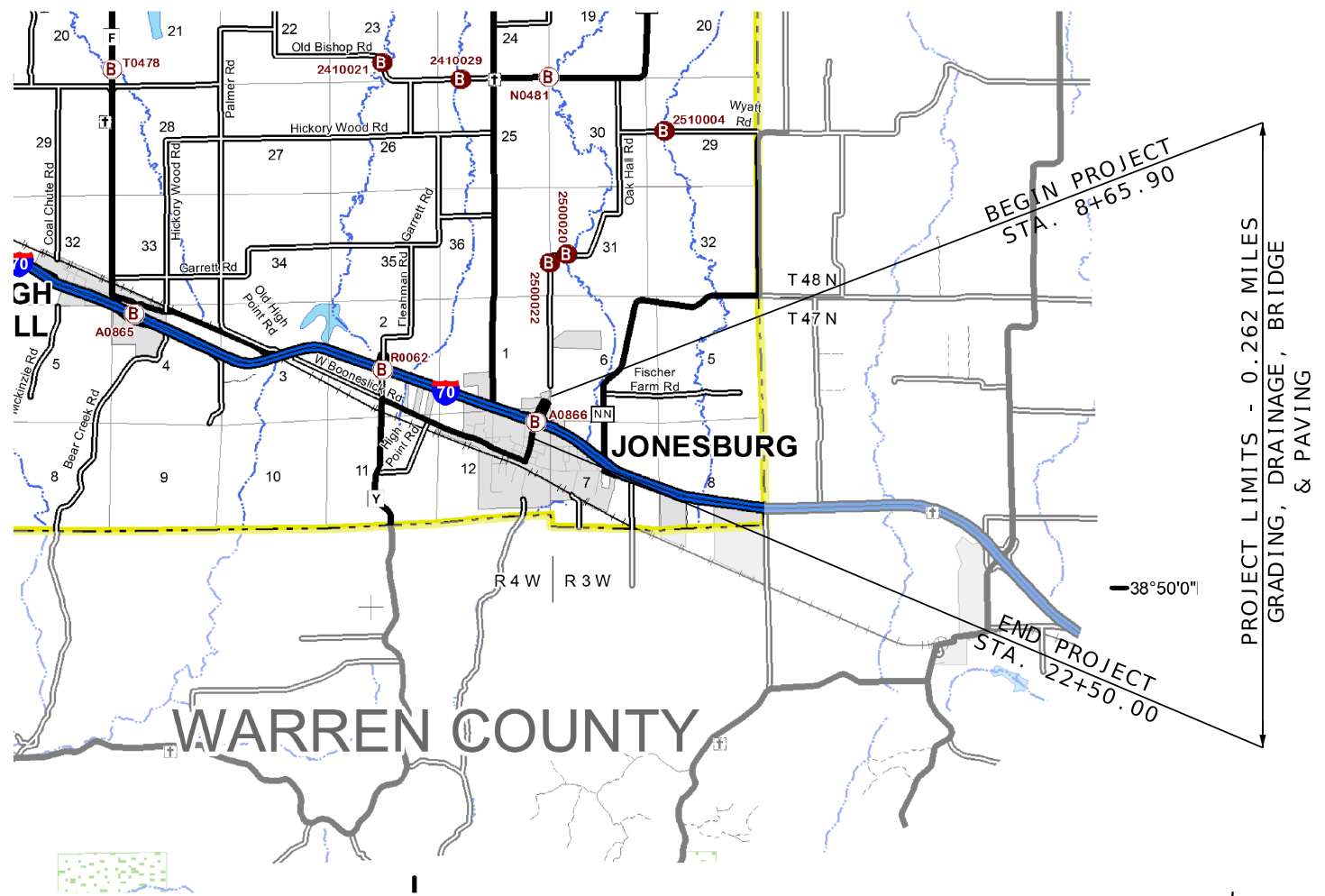
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 8 + 65.90
END OF PROJECT	STA. 22 + 50.00
APPARENT LENGTH	1384.10 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	1384.10 FEET
STATE LENGTH	0.262 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	3.4 ACRES



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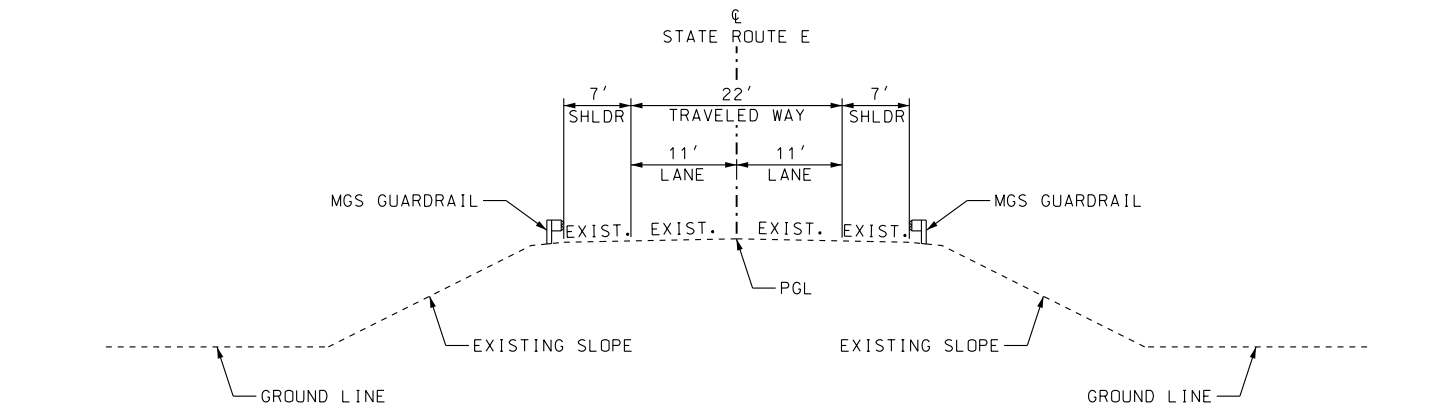
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY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

CONVENTIONAL SYMBOLS
(USED IN PLANS)

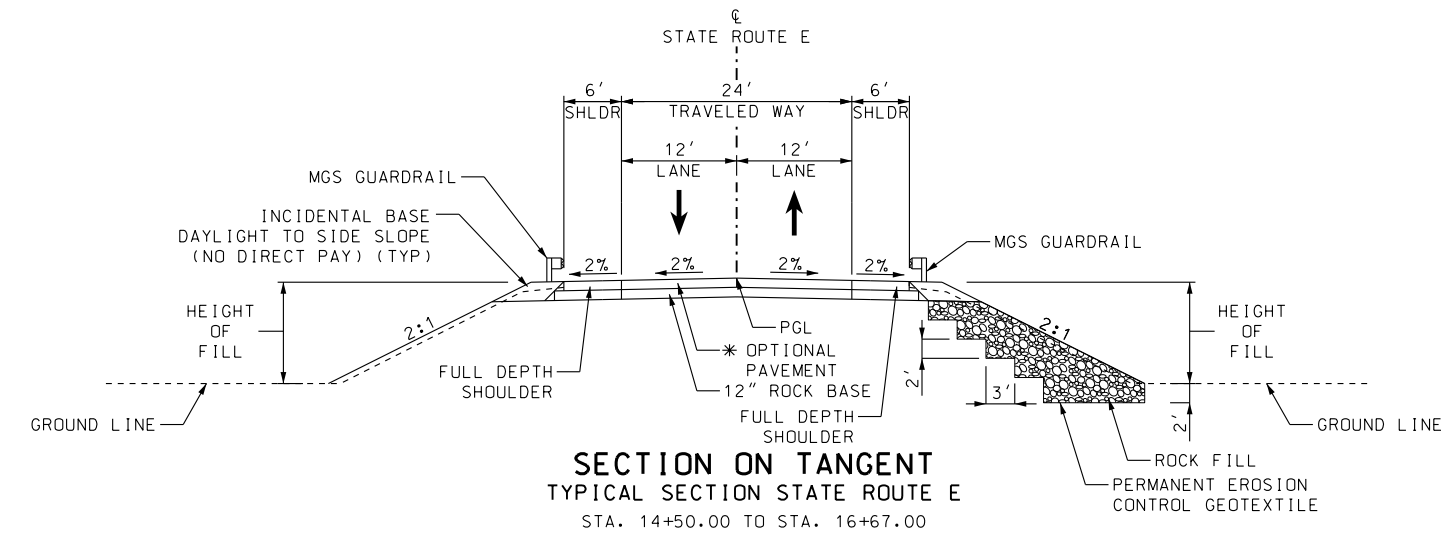
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

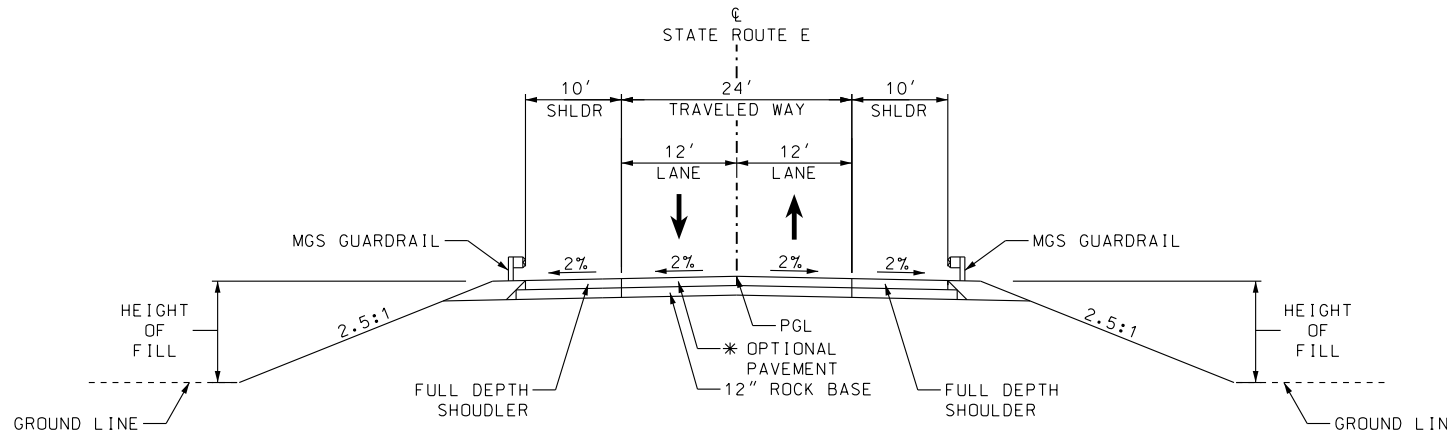
* OPTIONAL PAVEMENT
 2" SP125B PG76-22 OVER
 2" SP125B PG76-22 OVER
 6" SP190 PG64-22
 OR
 9" PCCP



SECTION ON TANGENT
 TYPICAL SECTION STATE ROUTE E
 STA. 8+65.90 TO STA. 14+50.00

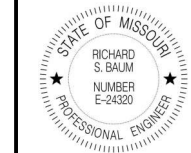


SECTION ON TANGENT
 TYPICAL SECTION STATE ROUTE E
 STA. 14+50.00 TO STA. 16+67.00



SECTION ON TANGENT
 TYPICAL SECTION STATE ROUTE E
 STA. 16+67.00 TO STA. 17+41.93

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Richard S. Baum
 11/26/2024 4:53:44 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
 26-NOV-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	2

COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

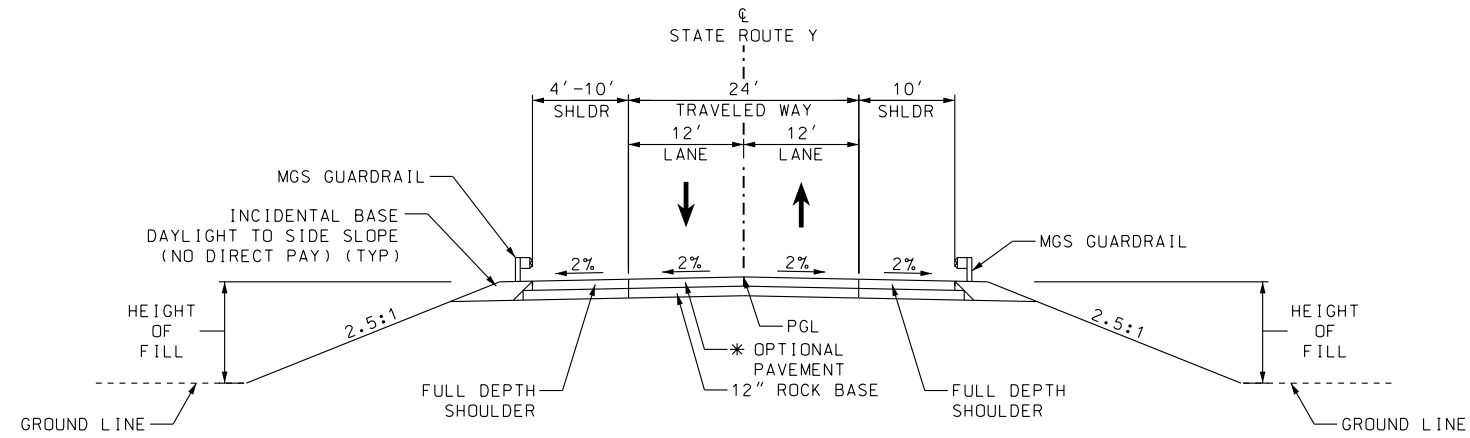
DATE	DESCRIPTION



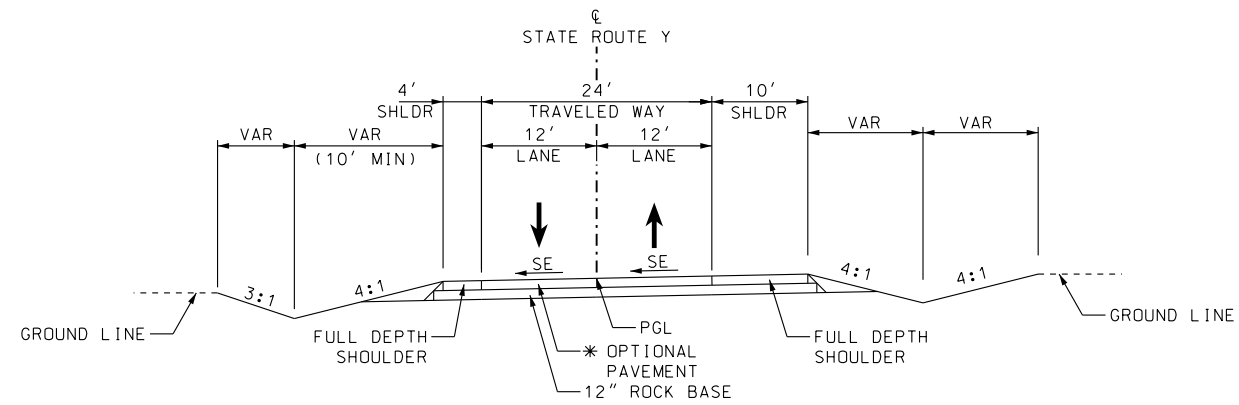
TYPICAL SECTIONS
 SHEET 1 OF 6

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

* OPTIONAL PAVEMENT
 2" SP125B PG76-22 OVER
 2" SP125B PG76-22 OVER
 6" SP190 PG64-22
 OR
 9" PCCP

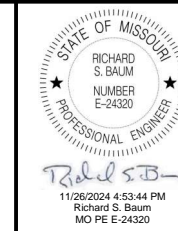


SECTION ON TANGENT
 TYPICAL SECTION STATE ROUTE Y
 STA. 20+48.57 TO STA. 21+74.40



SECTION ON SUPERELEVATED CURVE
 TYPICAL SECTION STATE ROUTE Y
 STA. 21+74.40 TO STA. 22+50.00

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DATE PREPARED
 26-NOV-2024

ROUTE STATE
 E MO
 DISTRICT SHEET NO.
 NE 2

COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

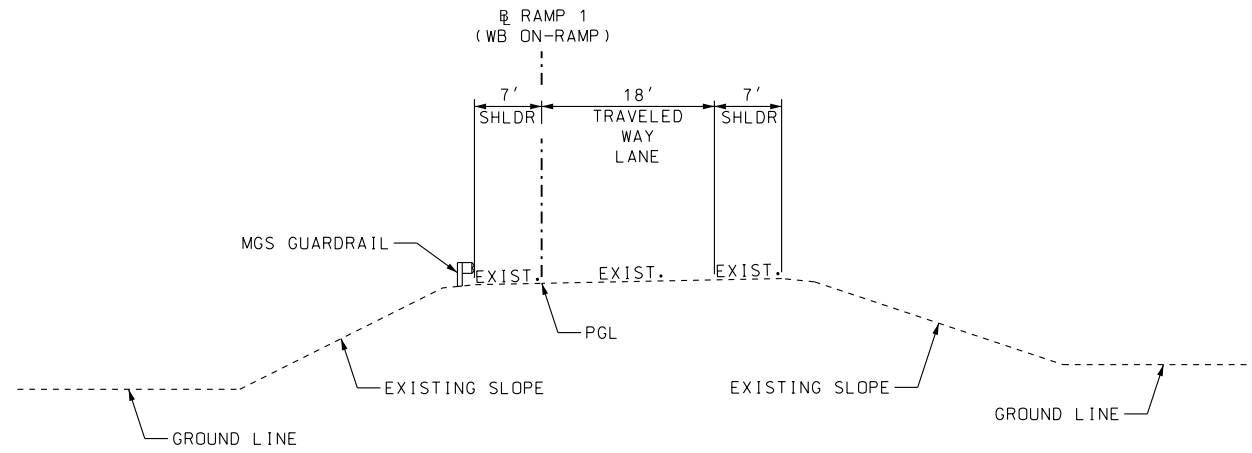
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

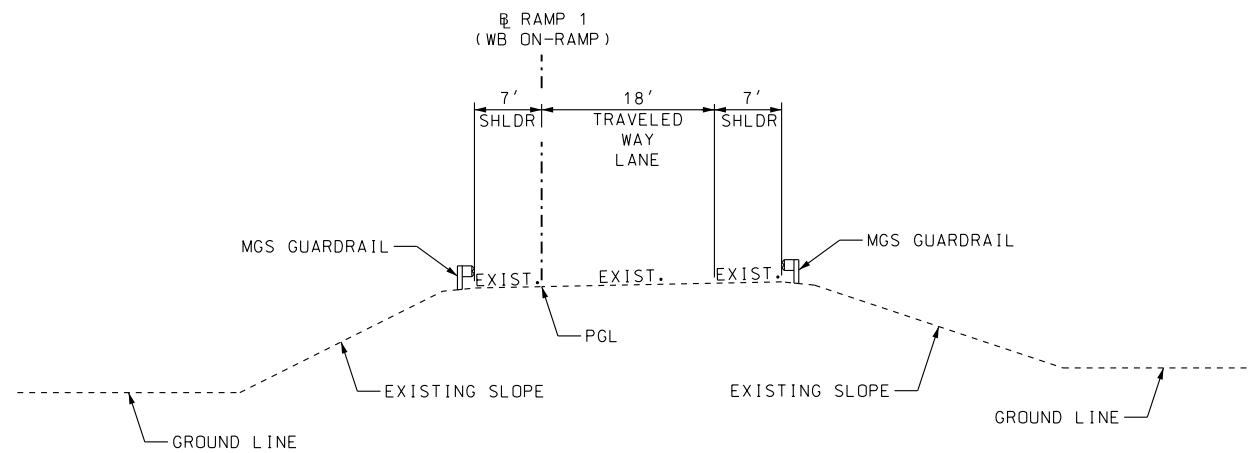
TYPICAL SECTIONS
 SHEET 2 OF 6

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

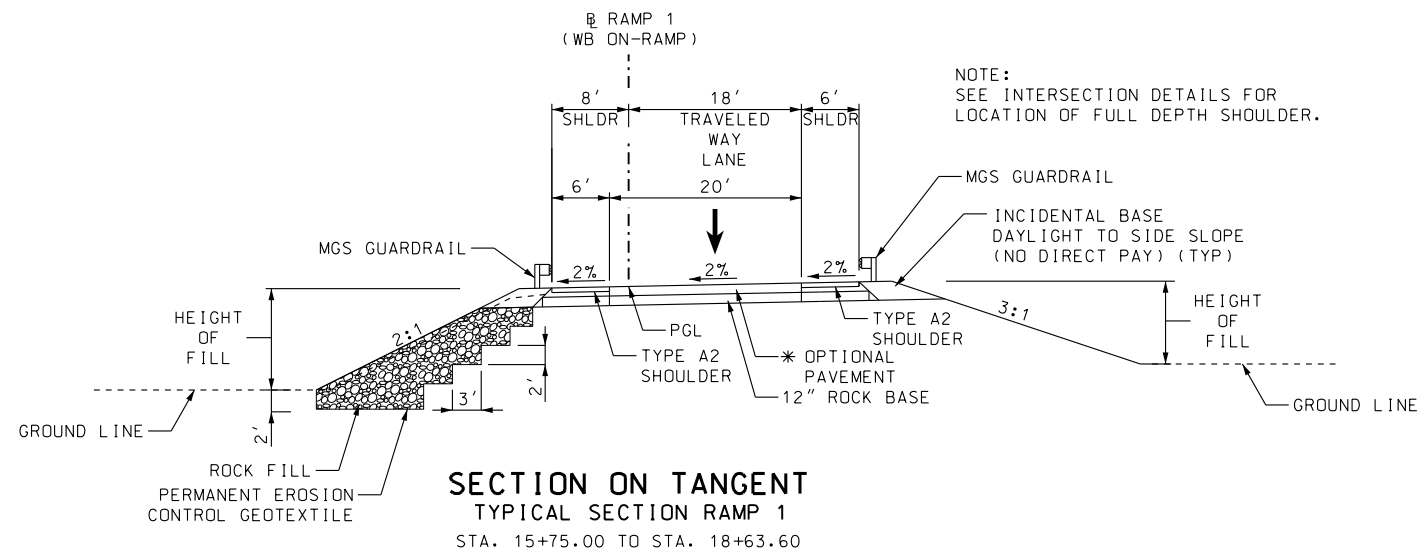
* OPTIONAL PAVEMENT
 2" SP125B PG76-22 OVER
 2" SP125B PG76-22 OVER
 6" SP190 PG64-22
 OR
 9" PCCP



SECTION ON TANGENT
TYPICAL SECTION RAMP 1
 STA. 13+15.42 TO STA. 14+79.88

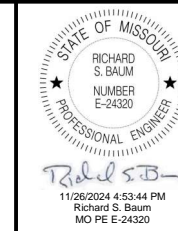


SECTION ON TANGENT
TYPICAL SECTION RAMP 1
 STA. 14+79.88 TO STA. 15+75.00



SECTION ON TANGENT
TYPICAL SECTION RAMP 1
 STA. 15+75.00 TO STA. 18+63.60

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DATE PREPARED
 26-NOV-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 NE 2

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

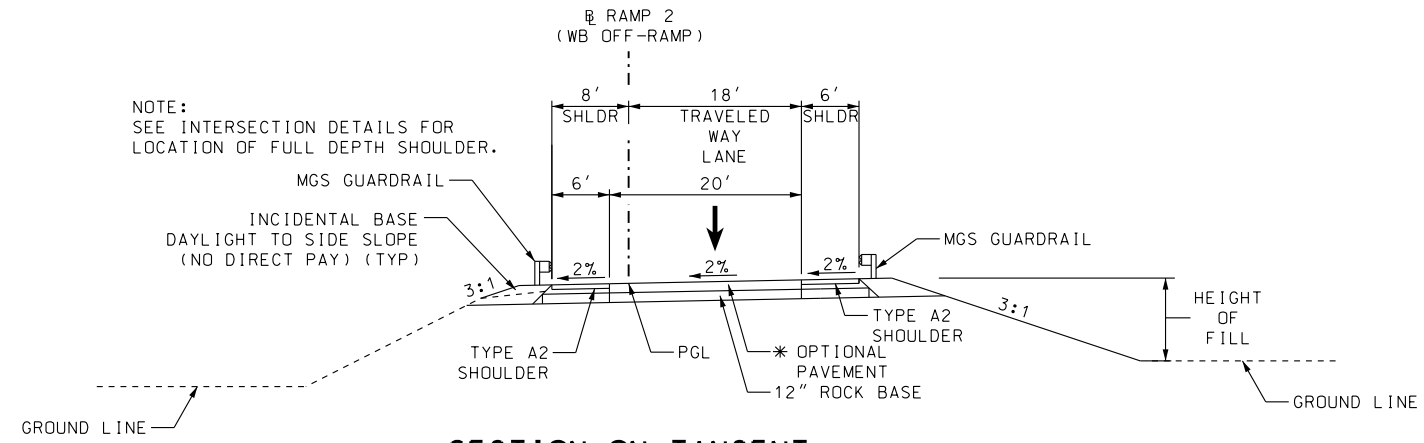
MoDOT

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TYPICAL SECTIONS
 SHEET 3 OF 6

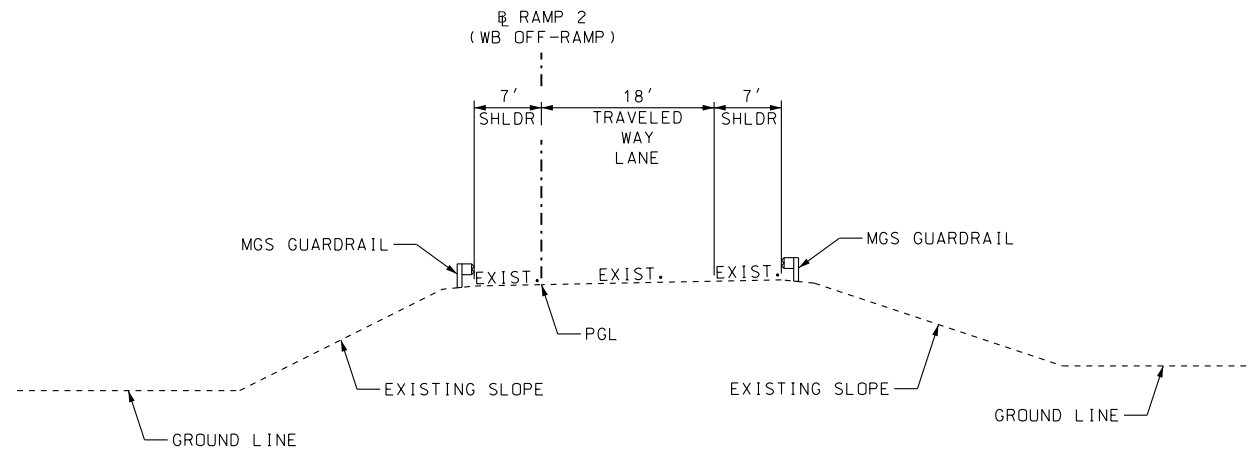
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

- * OPTIONAL PAVEMENT
- 2" SP125B PG76-22 OVER
- 2" SP125B PG76-22 OVER
- 6" SP190 PG64-22
- OR
- 9" PCCP



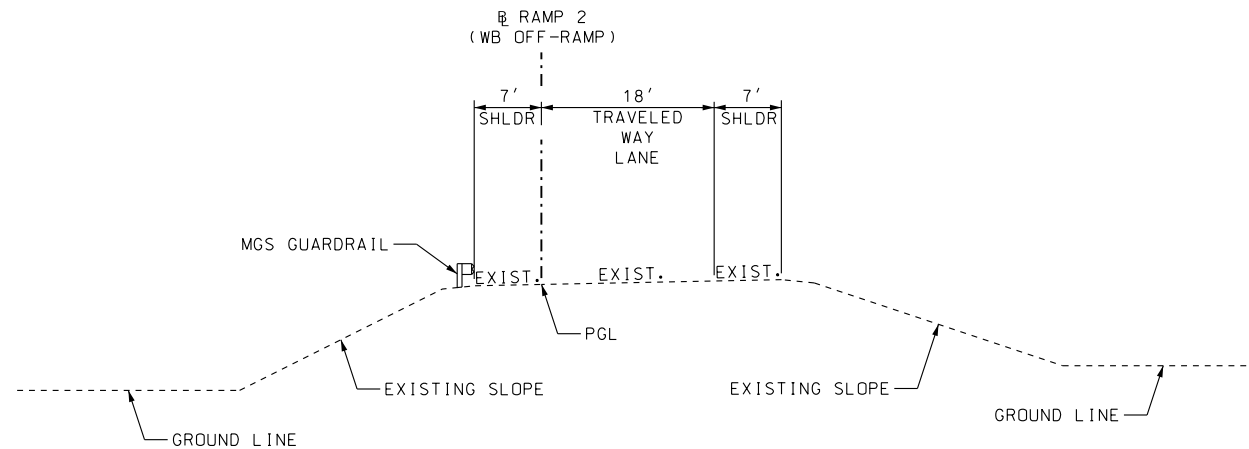
**SECTION ON TANGENT
TYPICAL SECTION RAMP 2**

STA. 18+23.47 TO STA. 20+35.00



**SECTION ON TANGENT
TYPICAL SECTION RAMP 2**

STA. 20+35.00 TO STA. 21+64.64

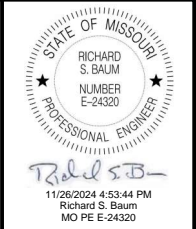


**SECTION ON TANGENT
TYPICAL SECTION RAMP 2**

STA. 21+64.64 TO STA. 24+87.26

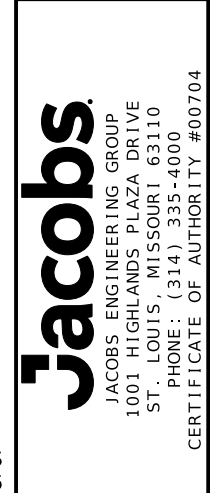
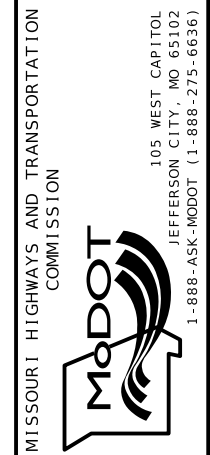
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TYPICAL SECTIONS
SHEET 4 OF 6



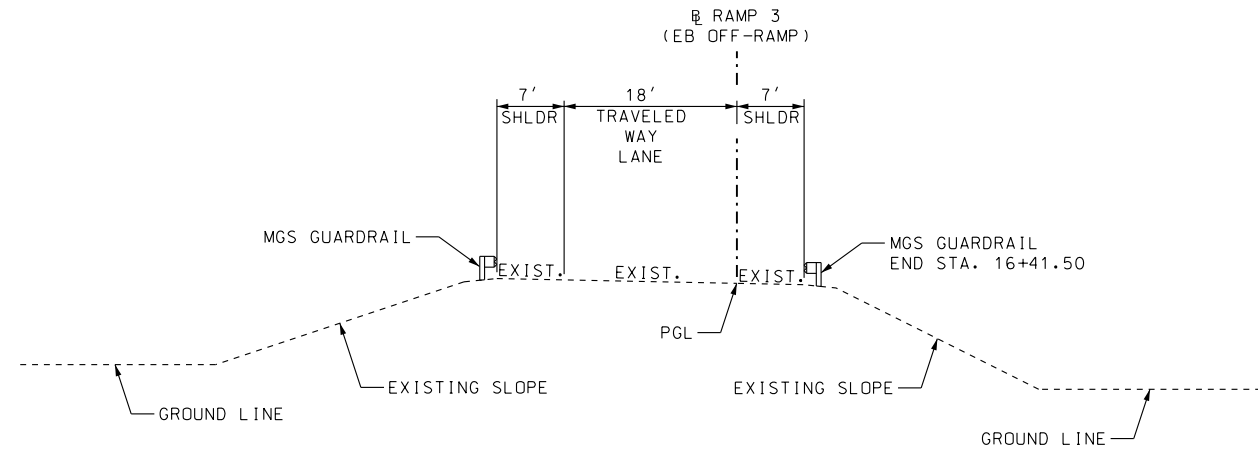
DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 2
COUNTY MONTGOMERY	
JOB NO. J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

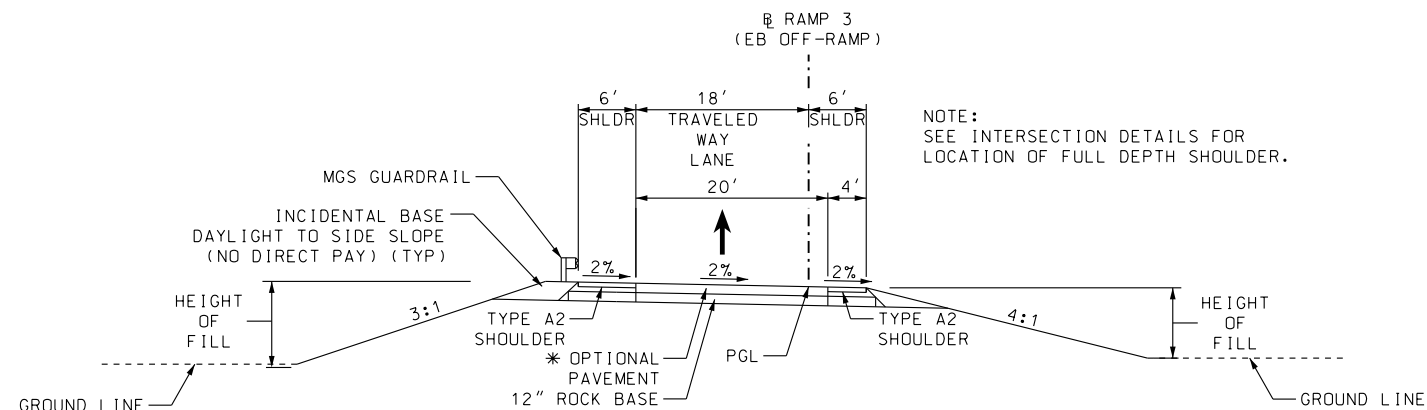


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

- * OPTIONAL PAVEMENT
- 2" SP125B PG76-22 OVER
- 2" SP125B PG76-22 OVER
- 6" SP190 PG64-22
- OR
- 9" PCCP

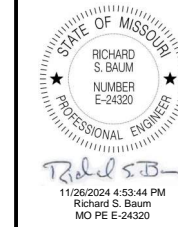


SECTION ON TANGENT
TYPICAL SECTION RAMP 3
 STA. 14+91.50 TO STA. 16+65.00



SECTION ON TANGENT
TYPICAL SECTION RAMP 3
 STA. 16+65.00 TO STA. 18+15.57

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DATE PREPARED
 26-NOV-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 NE 2

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

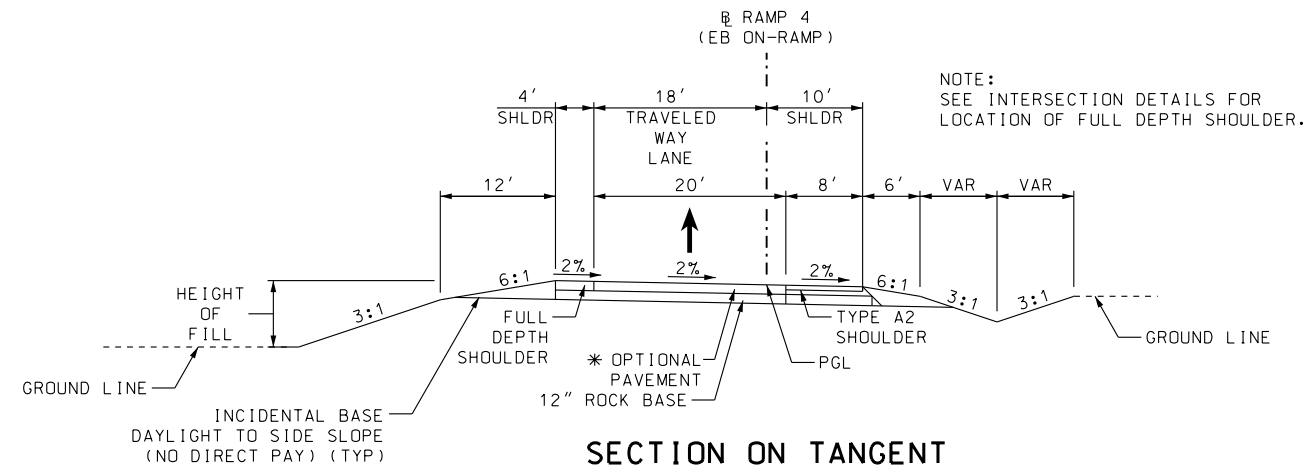
BRIDGE NO.

DATE	DESCRIPTION

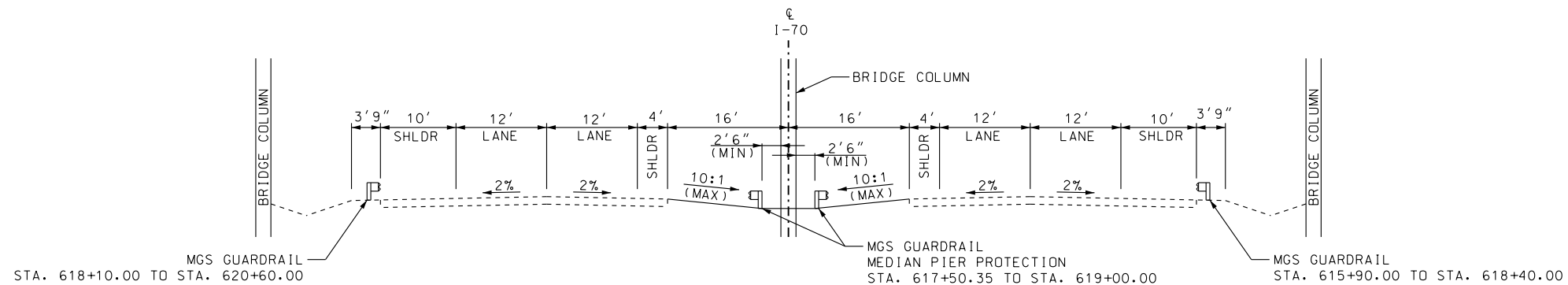


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

- * OPTIONAL PAVEMENT
- 2" SP125B PG76-22 OVER
- 2" SP125B PG76-22 OVER
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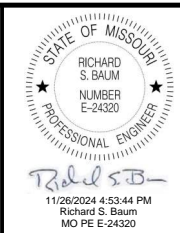
SECTION ON TANGENT
TYPICAL SECTION RAMP 4
 STA. 17+97.31 TO STA. 21+80.00



SECTION ON TANGENT
TYPICAL SECTION I-70

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TYPICAL SECTIONS
 SHEET 6 OF 6



DATE PREPARED	
26-NOV-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	2
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
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)

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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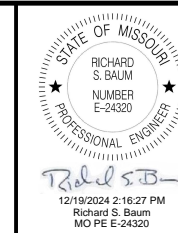
REMOVAL OF IMPROVEMENTS				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
4	8+68	13+02	ROUTE E / RAMP 1	1326 LF GUARDRAIL
4	8+78	24+87	ROUTE E / RAMP 2	1412 LF GUARDRAIL
4 & 42	13+89		ROUTE E, RT.	SIGN
4	14+50		ROUTE E	24 LF SAW CUT
4 & 42	16+20		ROUTE E, RT.	SIGN
4 & 42	17+50		ROUTE E, RT.	SIGN
4 & 42	17+50		ROUTE E, RT.	SIGN
4 & 42	17+24		ROUTE E, LT.	SIGN
4	17+32		ROUTE E, RT.	LIGHT POLE
4	22+07	17+90	RAMP 2 / ROUTE E	438 LF GUARDRAIL
4	14+71	17+90	RAMP 1 / ROUTE E	425 LF GUARDRAIL
4 & 42	18+70		RAMP 2, LT.	SIGN
4 & 42	18+70		RAMP 2, LT.	SIGN
4 & 42	18+70		RAMP 2, RT.	SIGN
4 & 42	19+26		RAMP 2, LT.	SIGN
4 & 42	19+26		RAMP 2, RT.	SIGN
4	20+35		RAMP 2	26 LF SAW CUT
4 & 42	20+88		RAMP 2, LT.	SIGN
4 & 42	20+88		RAMP 2, RT.	SIGN
4	14+50	17+92	ROUTE E	878 SY PAVEMENT
4	15+75		RAMP 1	18 LF SAW CUT
4	15+75	18+49	RAMP 1	658 SY PAVEMENT
4	18+38	20+35	RAMP 2	477 SY PAVEMENT
4	617+96	618+46	I-70, LT.	50 LF CONCRETE BARRIER
4	618+46	619+90	I-70, LT.	144 LF GUARDRAIL
5	19+97	20+62	ROUTE Y, LT.	66 LF GUARDRAIL
5	19+97	14+47	ROUTE Y / RAMP 3	425 LF GUARDRAIL
5 & 43	20+30		ROUTE Y, LT.	SIGN
5 & 43	20+30		ROUTE Y, LT.	SIGN
5 & 43	20+55		ROUTE Y, RT.	SIGN
5	20+62		ROUTE Y, LT.	LIGHT POLE
5	21+30		ROUTE Y, RT.	PULL BOX
5	21+30		ROUTE Y, RT.	LIGHTING CONTROLLER
5	21+43		ROUTE Y, LT.	PULL BOX
5 & 43	21+57		ROUTE Y, LT.	SIGN
5	22+50		ROUTE Y	35 LF SAW CUT
5	14+45	22+25	RAMP 3 / ROUTE Y	429 LF GUARDRAIL
5 & 43	22+36		ROUTE Y, RT.	SIGN
5 & 43	23+91		ROUTE Y, LT.	SIGN
5 & 43	15+35		RAMP 3, LT.	SIGN
5 & 43	15+35		RAMP 3, RT.	SIGN
5	16+65		RAMP 3	24 LF SAW CUT
5 & 43	17+18		RAMP 3, LT.	SIGN
5 & 43	17+18		RAMP 3, RT.	SIGN
5 & 43	17+68		RAMP 3, LT.	SIGN
5 & 43	17+68		RAMP 3, RT.	SIGN
5 & 43	17+68		RAMP 3, RT.	SIGN
5	19+98	22+50	ROUTE Y	653 SY PAVEMENT
5	16+65	18+01	RAMP 3	363 SY PAVEMENT
5	18+16	21+80	RAMP 4	842 SY PAVEMENT
5	19+72	21+80	RAMP 4, RT.	150 SY PAVED DITCH
5	21+80		RAMP 4	27 LF SAW CUT
5	617+11	619+39	I-70, LT. & RT.	455 LF GUARDRAIL
5	616+64	618+04	I-70, RT.	140 LF GUARDRAIL
5	618+04	618+54	I-70, RT.	50 LF CONCRETE BARRIER
			TOTAL	1 LUMP SUM

MOWING		
LOCATION	ACRES	REMARKS
RTE. E/Y INTERCHANGE	25.8	ESTMATE 2 MOWINGS

OFFICE FOR ENGINEER		
TOTAL	7	MONTHS

MOBILIZATION		
TOTAL	1	LUMP SUM

CONTRACTOR FURNISHED SURVEYING & STAKING		
TOTAL	1	LUMP SUM



DATE PREPARED
12/19/2024 2:16:27 PM
Richard S. Baum
MO PE E-24320

19-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 3

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

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



SUMMARY OF QUANTITIES
SHEET 1 OF 6

EARTHWORK				
LOCATION	EXCAVATION CLASS A	COMPACTING EMBANKMENT	FURNISHING ROCK FILL	PLACING ROCK FILL
	CY	CY	CY	CY
ROUTE E	2476	1404	2049	2049
RAMP 1	2472	987	2445	2445
RAMP 2	293	698		
ROUTE Y	449	484		
RAMP 3	211	471		
RAMP 4	965	301		
TOTAL	6866	4345	4494	4494

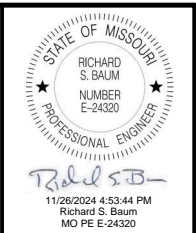
LINEAR GRADING CLASS 1					
SHEET	STATION	STATION	LOCATION	STA.	REMARKS
5	616+85.00	619+40.00	I-70, LT. & RT.	2.6	MG5 MEDIAN PIER PROTECTION
			TOTAL	2.6	

SUBGRADE COMPACTION (6-INCH DEPTH)				
STATION	STATION	LOCATION	100FT.	REMARKS
14+50	15+50	ROUTE E	1.0	
15+75	17+85	RAMP 1	2.1	
19+00	20+35	RAMP 2	1.4	
21+75	22+50	ROUTE Y	0.8	
16+65	17+65	RAMP 3	1.0	
18+75	21+80	RAMP 4	3.1	
		TOTAL	9.4	

PAVEMENT AND BASE								
SHEET	STATION	STATION	LOCATION	FURNISHING ROCK BASE MATERIAL (12 IN.)	PLACING ROCK BASE (12 IN.)	OPTIONAL PAVEMENT	TYPE A2 SHOULDER	REMARKS
				SY	SY	SY	SY	
4	14+50.00	17+41.93	ROUTE E	958	958	933.7		
4	15+75.00	18+51.05	RAMP 1	935	935	926.1		
4	15+75.00	17+88.09	RAMP 1, LT.	321	321		282.9	INSIDE & OUTSIDE SHOULDER
4	18+35.56	20+35.00	RAMP 2	755	755	745.9		
4	18+95.90	20+35.00	RAMP 2, LT.	254	254		224.9	INSIDE & OUTSIDE SHOULDER
5	20+48.57	22+50.00	ROUTE Y	638	638	627.9		
5	16+65.00	18+03.53	RAMP 3	579	579	571.7		
5	16+65.00	17+38.68	RAMP 3, RT.	155	155		135.7	INSIDE & OUTSIDE SHOULDER
5	18+09.90	21+80.00	RAMP 4	1339	1339	1300.7		
5	18+72.24	21+80.00	RAMP 4, RT.	299	299		273.6	OUTSIDE SHOULDER
			TOTAL	6233	6233	5106.0	917.1	

CONCRETE APPROACH PAVEMENT				
SHEET	STATION	STATION	LOCATION	SY
4	17+41.93	17+59.24	ROUTE E	85.4
5	20+31.26	20+48.57	ROUTE Y	84.7
			TOTAL	170.1

ROCK BLANKET							
SHEET	STATION	STATION	LOCATION	FURNISHING TYPE 2 ROCK BLANKET	PLACING TYPE 2 ROCK BLANKET	PERMANENT EROSION CONTROL GEOTEXTILE	REMARKS
				CY	CY	SY	
4	15+00	16+19	ROUTE E RT. / RAMP 1 LT.			2568	UNDER ROCK FILL
4	17+50	18+21	ROUTE E, LT. & RT.	559	559	838	2 FT. THICK
5	19+67	20+47	ROUTE Y, LT. & RT.	548	548	823	2 FT. THICK
			TOTAL	1107	1107	4229	



DATE PREPARED
26-NOV-2024

ROUTE
E

STATE
MO

DISTRICT
NE

SHEET NO.
3

COUNTY
MONTGOMERY

JOB NO.
J2S3439


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)

Jacobs

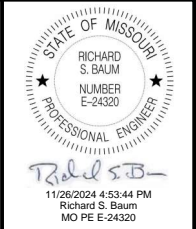
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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

PERMANENT PAVEMENT MARKING							
SHEET	STATION	STATION	LOCATION	PERFORMED THERMOPLASTIC MARKING		HIGH BUILD WATERBORNE MARKING, TYPE L BEADS	
				24 IN. WHITE (STOP BAR)	LF	4 IN. YELLOW	6 IN. WHITE
52	14+50	15+75	ROUTE E / RAMP 1	LF		LF	
52	14+50	16+67	ROUTE E			434	
52	14+50	20+35	ROUTE E / RAMP 2			397	
52	17+56	18+50	RAMP 1 / ROUTE E			201	
52	17+54	18+50	ROUTE E		192		
52	18+80	18+50	RAMP 2 / ROUTE E			170	
52	15+75	17+56	RAMP 1, RT.				182
52	18+75		RAMP 2	32			
52	18+80	20+35	RAMP 2, RT.				156
53	18+50	17+67	ROUTE Y / RAMP 3			260	
53	18+50	20+39	ROUTE Y		378		
53	18+50	19+05	ROUTE Y / RAMP 4			294	
53	16+65	22+50	RAMP 3 / ROUTE Y			247	
53	21+27	22+50	ROUTE Y		246		
53	21+80	22+50	RAMP 4 / ROUTE Y			479	
53	16+65	17+67	RAMP 3, LT.				104
53	17+73		RAMP 3	34			
53	19+05	21+80	RAMP 4, LT.				275
			TOTAL	66	1250	2529	717

GUARDRAIL								
SHEET	STATION	STATION	LOCATION	MGS GUARDRAIL	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB)	MGS END ANCHOR	TYPE A CRASHWORTHY END TERMINAL (MASH)	TYPE B CRASHWORTHY END TERMINAL (MASH)
				LF	EACH	EACH	EACH	EACH
4	9+35.02	24+87.26	ROUTE E / RAMP 2	1350			1	
4	9+17.03	13+15.42	ROUTE E / RAMP 1	1262.5		1	1	
4	21+64.64	17+31.72	RAMP 2 / ROUTE E	325	1		1	
4	17+37.50	14+79.88	ROUTE E / RAMP 1	350	1	1		
4	618+10.00	620+60.00	I-70	250		1	1	
5	617+50.35	619+00.00	I-70	300				2
5	615+90.00	618+40.00	I-70	250		1	1	
5	14+94.33	20+58.91	RAMP 3 / ROUTE Y	312.5	1		1	
5	14+91.50	16+41.50	RAMP 3	150		1	1	
5	20+53.90	19+14.10	ROUTE Y / RAMP 4	87.5	1	1		
			TOTAL	4637.5	4	6	7	2
			PAY TOTAL	4638	4	6	7	2

SEEDING			
LOCATION	MULCHING	SEEDING - COOL SEASON MIXTURES	TEMPORARY SEEDING
	ACRE	ACRE	ACRE
ROUTE E/Y & RAMPS	1.6	1.6	1.6
TOTAL	1.6	1.6	1.6



DATE PREPARED
26-NOV-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
MONTGOMERY

JOB NO.
J2S3439

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)

Jacobs

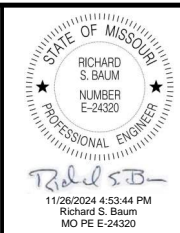
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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

TEMPORARY EROSION CONTROL							
SHEET	STATION	STATION	LOCATION	SEDIMENT TRAP ROCK	ROCK DITCH CHECK	SEDIMENT REMOVAL	SILT FENCE
				CY	LF	CY	LF
36	14+50	15+75	ROUTE E / RAMP 1			5	473
36	14+50	20+35	ROUTE E / RAMP 2			4	393
36	15+75	20+35	RAMP 1 / RAMP 2			6	614
37	16+65	21+80	RAMP 3 / RAMP 4			7	721
37	16+85		RAMP 3	1.7			
37	17+45	17+75	RAMP 3		12	3	
37	18+60	20+85	RAMP 4		24	4	
37	21+60		RAMP 4	1.7		1	
			TOTAL	3.4	36	30	2201

PERMANENT EROSION CONTROL						
SHEET	STATION	STATION	LOCATION	PAVED DITCH	TYPE 1 TURF REINFORCEMENT MAT	REMARKS
				SY	SY	
5	22+50	17+20	ROUTE Y, RT. /RAMP 3 RT.		183	12' WIDE x 137' LONG
5	21+91	20+00	ROUTE Y, LT. /RAMP 4 RT.		364	16' WIDE x 205' LONG
5	20+00	21+80	RAMP 4, RT.	140.0		7' WIDE x 180' LONG
			TOTAL	140.0	547	

CHANNEL POST DELINEATORS					
LOCATION	WHITE	YELLOW	WHITE DOUBLE STACKED	RED/WHITE	RED/YELLOW
	EACH	EACH	EACH	EACH	EACH
RAMP 1	11	4	6		
RAMP 2				10	4
RAMP 3				14	4
RAMP 4	10	4	6		
TOTAL	21	8	12	24	8



DATE PREPARED
26-NOV-2024

ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 3

COUNTY
MONTGOMERY

JOB NO.
J2S3439

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)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



Laura Anne Glaser
Laura Anne Glaser - Electrical
MO PE-2010001771

DATE PREPARED
26-NOV-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 3

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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LIGHTING POLES AND BRACKET CABLE

SHEET NO.	LUMIN NO.	STA.	OFFSET		LOCATION	TOP MOUNT LIGHT POLE			TOP MOUNTED LUMINAIRE			ARM			FOUNDATION	LUMIN. CABLE	CIRCUIT	NOTES
			30'	45' AT		LED-A	LED-B	LED-C	4'	6'	8'	45' MH	1/C #10 AWG					
38	LT1	17+39.04	38'	RT	ROUTE E		1			1				1	150	1		
38	LT2	16+44.40	44'	LT	ROUTE E		1			1				1	150	1		
39	LT3	21+45.66	42'	RT	ROUTE Y		1			1				1	150	2		
39	LT4	20+58.42	41'	LT	ROUTE Y		1			1				1	150	2		
TOTAL =						0	4	0	0	4	0	0	0	4	600			

PULL BOXES

SHEET NO.	STA.	OFFSET		LOCATION	P.B. #	PREFORMED			JUNCTION BOX IN BRIDGE (SEE NOTE 1)	APRON CLASS B CONCRETE (CY)	DRAIN		CIRCUIT	NOTES
		CLASS 1	CLASS 2			CLASS 3	TYPE I	TYPE II						
38	17+56.16	43'	RT	ROUTE E	PB1	1				0.3	1		1	
38	16+29.94	45'	LT	ROUTE E	PB2	1				0.3	1		1	
38	18+00.19	259'	RT	RAMP 1	PB3	1				0.3	1		1	INTERCEPT EXISTING CIRCUIT
38	17+83.36	22'	RT	ROUTE E	JB1			1					1	
39	20+67.12	52'	RT	ROUTE Y	PB4	1				0.3	1		1	
39	21+54.54	56'	RT	ROUTE Y	PB5		1			0.4	1		1,2	
39	21+38.90	59'	LT	ROUTE Y	PB6	1				0.3	1		2	
39	20+52.19	55'	LT	ROUTE Y	PB7	1				0.3	1		2	
39	20+31.07	379'	LT	RAMP 4	PB8	1				0.3	1		2	INTERCEPT EXISTING CIRCUIT
39	20+14.76	20'	RT	ROUTE Y	JB2			1					1	
TOTAL:						7	1	0		2.5				

NOTES: 1. SEE BRIDGE PLANS FOR CONDUIT SYSTEM ON STRUCTURE. 2. DRAINS ARE INCIDENTAL TO PREFORMED PULL BOXES.

TRENCHING, CONDUIT, AND CABLE

SHEET NO.	FROM	TO	CIRCUIT	TRENCH TYPE I	CONDUIT, 2"		CONDUIT, 3"		CONDUIT, 4"		CONDUIT, 4"		CABLE-CONDUIT, 1" 3/C#8	CABLES				NOTES
					IN TRENCH	IN TRENCH	IN TRENCH	PUSHED	IN BRIDGE	#8	#2	#8G		#6G				
38	PB1	LT1	1	20									32					
38	PB1	PB2	1								153			330		165		
38	PB2	LT2	1	13									25					
38	PB1	PB3	1	220									232					
38	PB1	JB1	1				60							144		72		
38,39	JB1	JB2	1							240				504		252		
39	JB2	PB4	1				60							144		72		
39	PB4	PB5	1								88			200		100		
39	PB5	LT3	2	15									27					
39	PB5	CONTROLLER	1,2				24							152		38		1 SPARE CONDUIT
39	PB5	PB6	2								113			250		125		
39	PB6	PB7	2								88			200		100		
39	PB7	LT4	2	15									27					
39	PB6	PB8	2	338									350					
39	CONTROLLER	PS	SERVICE			128									384		128	COORDINATE WITH POWER COMPANY
TOTAL:					621	128	144	0	442		692	1924	384	924	128			

NOTES: 1. ALL CONDUCTORS WILL BE XLP/USE, NO SUBSTITUTIONS ALLOWED. 2. SEE BRIDGE PLANS FOR CONDUIT SYSTEM ON STRUCTURE.

PAD MOUNTED POWER SUPPLY / CONTROLLER

SHEET NO.	STA.	OFFSET		LOCATION	NAME	BREAKER (AMPS)					CONTROL STATION, 240V	POWER SUPPLY ASSEMBLY TYPE 1
		MAIN	1			2	3	4				
39	22+84.92	55'	RT	ROUTE Y	CONTROLLER	100	20	20	20	20	1	1
TOTAL:											1	1

NOTE: FUSE HOLDERS SHALL BE HEB-JW-RYC, NO SUBSTITUTIONS ALLOWED.

SUMMARY OF QUANTITIES
SHEET 5 OF 6

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
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PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



DATE PREPARED
12/19/2024 3:13:37 PM
Andrew W. Ledbetter - Civil
MO PE - 2005022126

19-DEC-2024

ROUTE E STATE MO
DISTRICT NE SHEET NO. 3

COUNTY MONTGOMERY
JOB NO. J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

Table with 2 columns: DATE, DESCRIPTION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., DESCRIPTION

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., DESCRIPTION

Summary table for Construction Signs and Relocated Signs

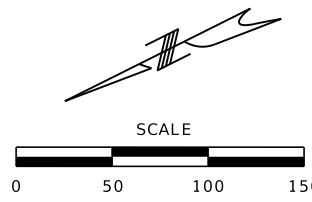
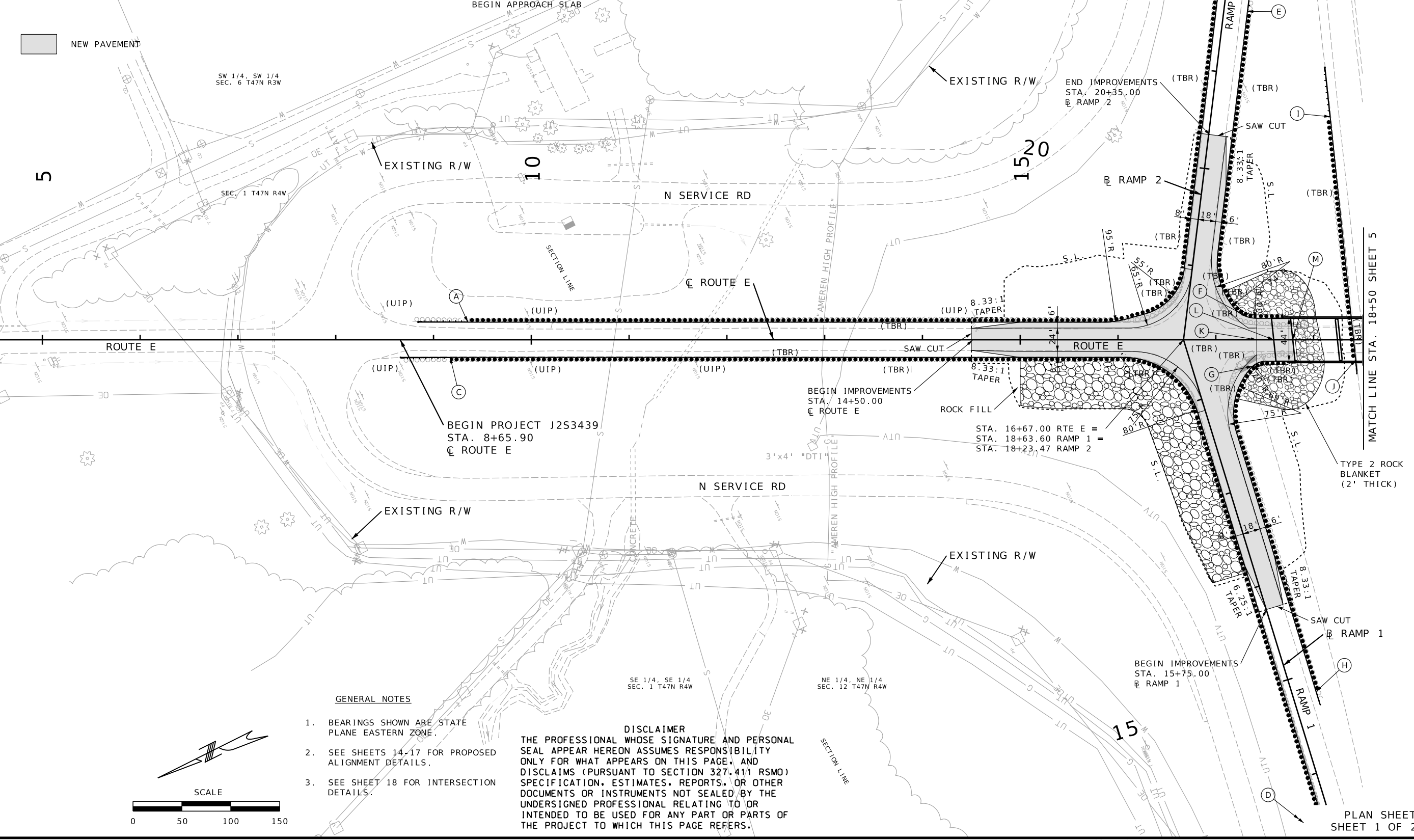
TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

Table with columns: ITEM NUMBER, TOTAL QTY, DESCRIPTION

NOTE:
ALL WARNING SIGNS SHALL HAVE FLORESCENT SHEETING.
ALL TRAFFIC CONTROL IS INCLUDED IN PAY ITEM 616-99-01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

* NO DIRECT PAY WILL BE MAKE FOR RELOCATION OF CONSTRUCTION SIGNING OR DEVICES
** NOT INCLUDED IN LUMP SUM TRAFFIC CONTROL

- (A) STA. 9+35.02 RTE. E
END MGS
BEGIN TYPE A CRASHWORTHY END TERMINAL
- (B) STA. 24+87.26 RAMP 2
BEGIN MGS (TIE TO EXISTING)
- (C) STA. 9+17.03 RTE. E
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (D) STA. 13+15.42 RAMP 1
END MGS
BEGIN END ANCHOR
- (E) STA. 21+64.64 RAMP 2
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (F) STA. 17+31.72 RTE. E
END MGS
BEGIN BRIDGE APPROACH TRANSITION
- (G) STA. 17+37.50 RTE. E
END BRIDGE APPROACH TRANSITION
BEGIN MGS
- (H) STA. 14+79.88 RAMP 1
END MGS
BEGIN END ANCHOR
- (I) STA. 620+60.00 I-70
END MGS
BEGIN TYPE A CRASHWORTHY END TERMINAL
- (J) STA. 618+10.00 I-70
END END ANCHOR
BEGIN MGS
- (K) STA. 17+41.93 RTE. E
END PAVEMENT
BEGIN APPROACH PAVEMENT
- (L) STA. 17+59.24 RTE. E
END APPROACH PAVEMENT
BEGIN APPROACH SLAB
- (M) STA. 17+78.74 RTE. E
BEGIN BRIDGE A9375



- GENERAL NOTES**
1. BEARINGS SHOWN ARE STATE PLANE EASTERN ZONE.
 2. SEE SHEETS 14-17 FOR PROPOSED ALIGNMENT DETAILS.
 3. SEE SHEET 18 FOR INTERSECTION DETAILS.

DISCLAIMER

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DATE PREPARED
26-NOV-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	4

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

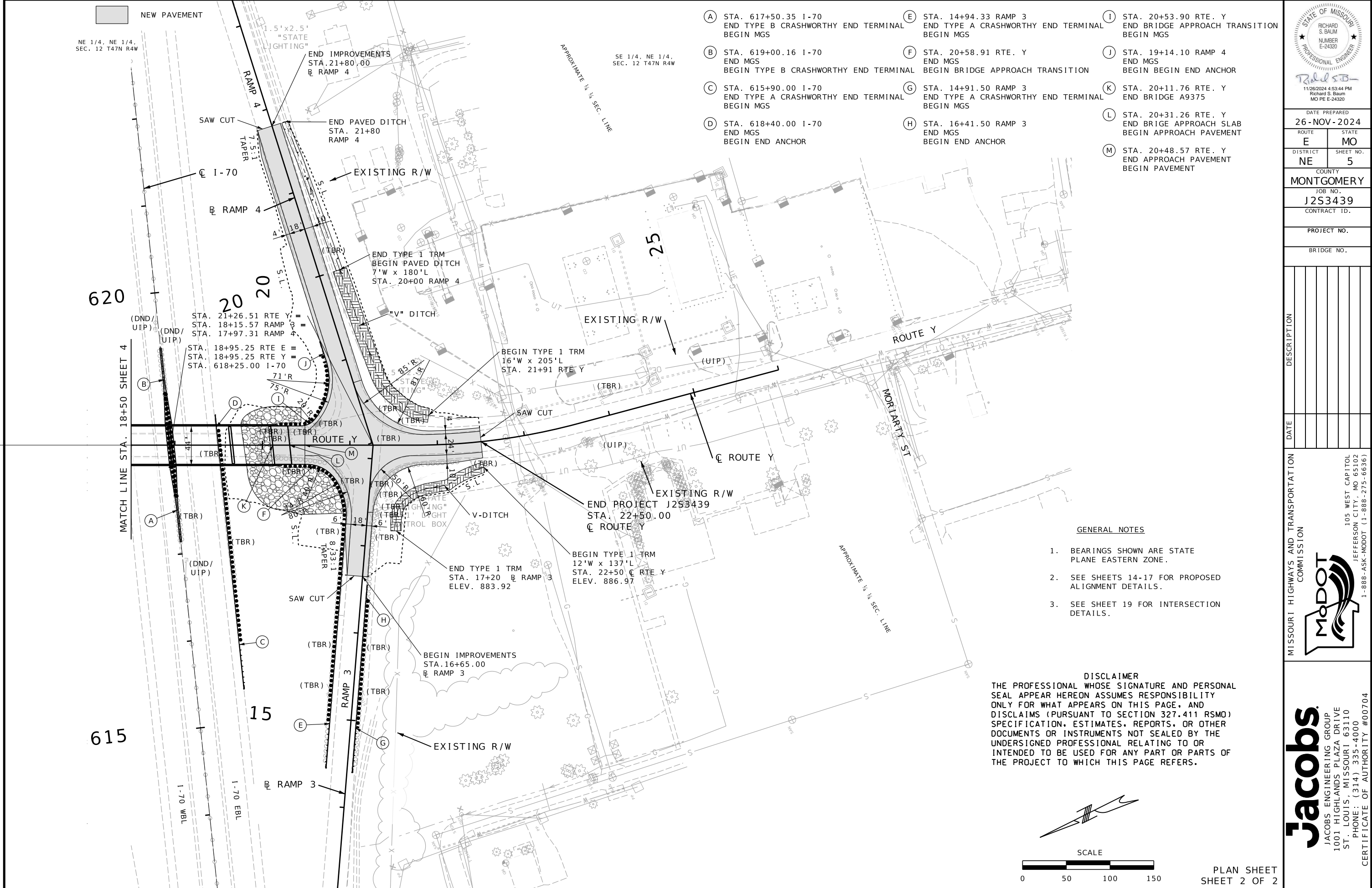
BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

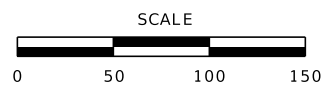
PLAN SHEET
SHEET 1 OF 2



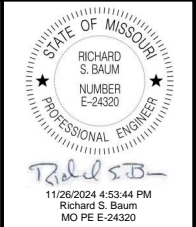
- (A) STA. 617+50.35 I-70
END TYPE B CRASHWORTHY END TERMINAL
BEGIN MGS
- (B) STA. 619+00.16 I-70
END MGS
BEGIN TYPE B CRASHWORTHY END TERMINAL
- (C) STA. 615+90.00 I-70
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (D) STA. 618+40.00 I-70
END MGS
BEGIN END ANCHOR
- (E) STA. 14+94.33 RAMP 3
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (F) STA. 20+58.91 RTE. Y
END MGS
BEGIN BRIDGE APPROACH TRANSITION
- (G) STA. 14+91.50 RAMP 3
END TYPE A CRASHWORTHY END TERMINAL
BEGIN MGS
- (H) STA. 16+41.50 RAMP 3
END MGS
BEGIN END ANCHOR
- (I) STA. 20+53.90 RTE. Y
END BRIDGE APPROACH TRANSITION
BEGIN MGS
- (J) STA. 19+14.10 RAMP 4
END MGS
BEGIN END ANCHOR
- (K) STA. 20+11.76 RTE. Y
END BRIDGE A9375
- (L) STA. 20+31.26 RTE. Y
END BRIDGE APPROACH SLAB
BEGIN APPROACH PAVEMENT
- (M) STA. 20+48.57 RTE. Y
END APPROACH PAVEMENT
BEGIN PAVEMENT

- GENERAL NOTES**
1. BEARINGS SHOWN ARE STATE PLANE EASTERN ZONE.
 2. SEE SHEETS 14-17 FOR PROPOSED ALIGNMENT DETAILS.
 3. SEE SHEET 19 FOR INTERSECTION DETAILS.

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PLAN SHEET
SHEET 2 OF 2



DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 5
COUNTY MONTGOMERY	
JOB NO. J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

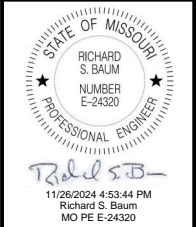
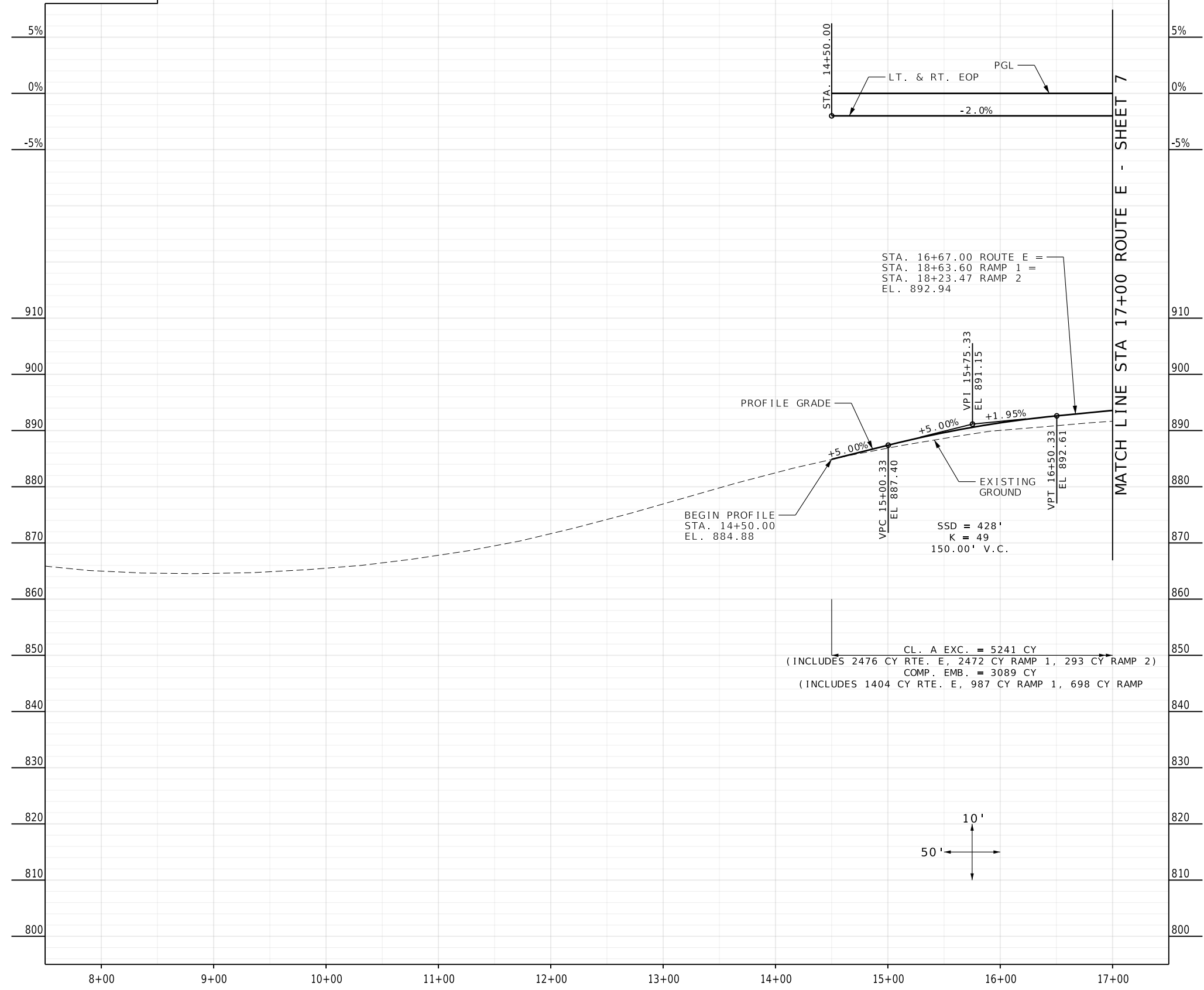
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SEE REFERENCE POINTS SHEET FOR BENCHMARKS



DATE PREPARED	
26-NOV-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	6
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

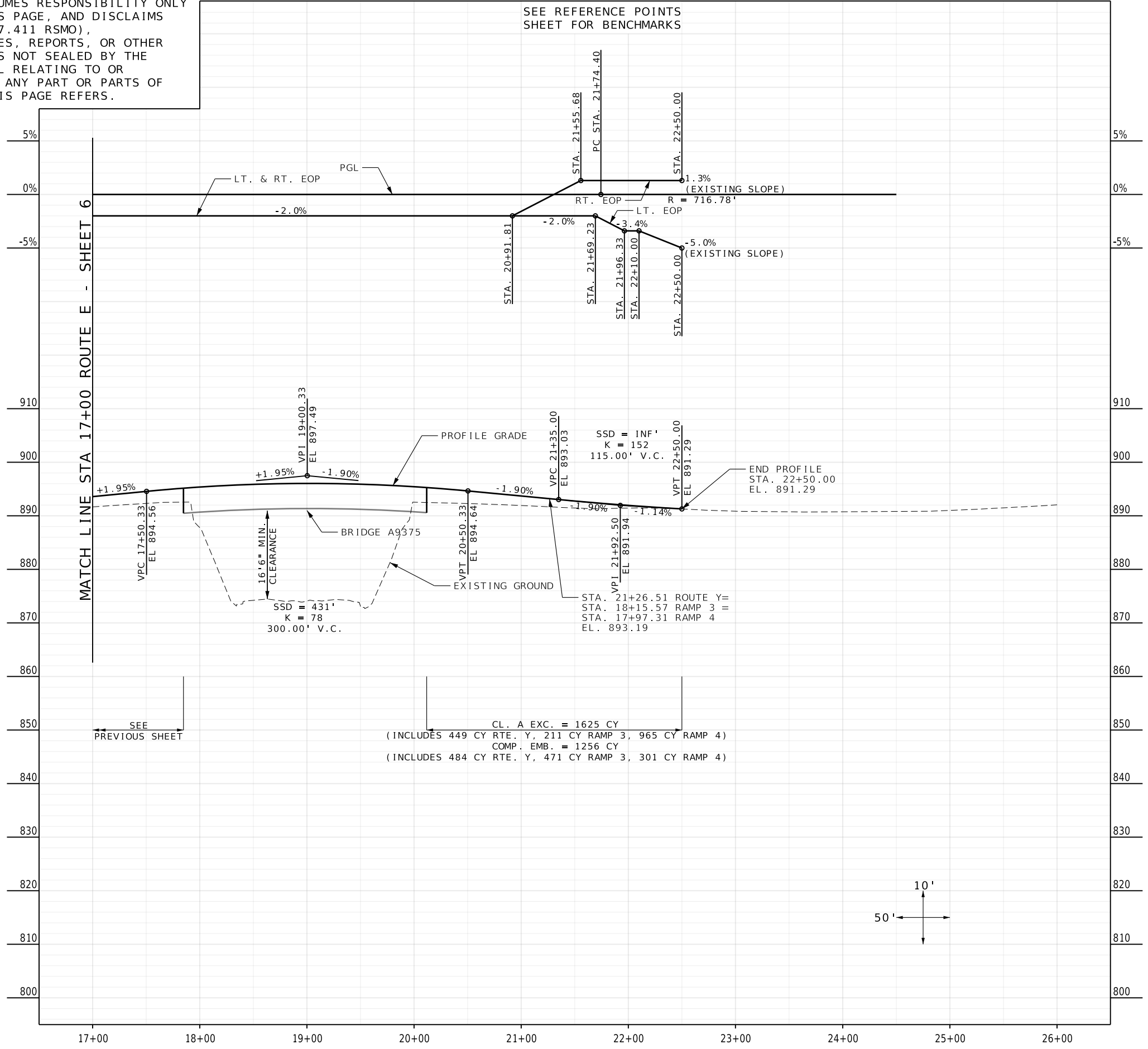
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ROUTE E/Y PROFILE
 STA. 14+50 TO 17+00

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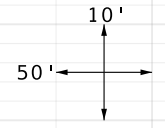
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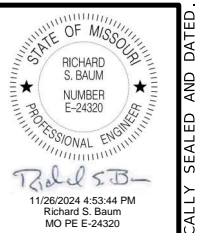
SEE REFERENCE POINTS SHEET FOR BENCHMARKS

MATCH LINE STA 17+00 ROUTE E - SHEET 6

CL. A EXC. = 1625 CY
 (INCLUDES 449 CY RTE. Y, 211 CY RAMP 3, 965 CY RAMP 4)
 COMP. EMB. = 1256 CY
 (INCLUDES 484 CY RTE. Y, 471 CY RAMP 3, 301 CY RAMP 4)



ROUTE E/Y PROFILE
 STA. 17+00 TO 22+50



DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 7
COUNTY MONTGOMERY	
JOB NO. J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

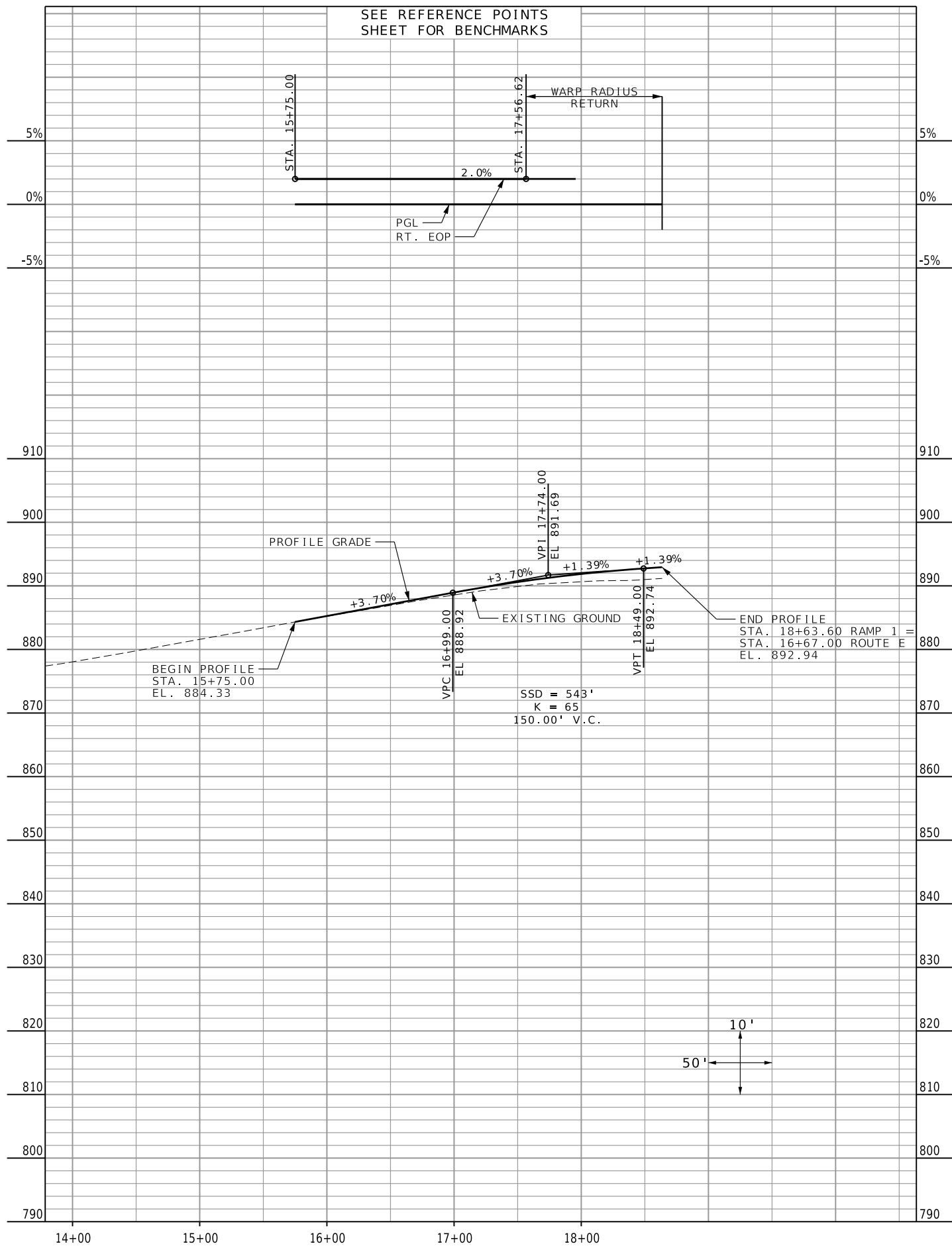
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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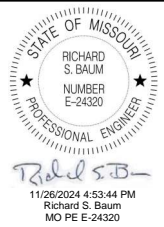
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RAMP 1 PROFILE
 STA. 15+75 TO 18+63.60



DATE PREPARED
 26-NOV-2024

ROUTE E STATE MO
 DISTRICT NE SHEET NO. 8

COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

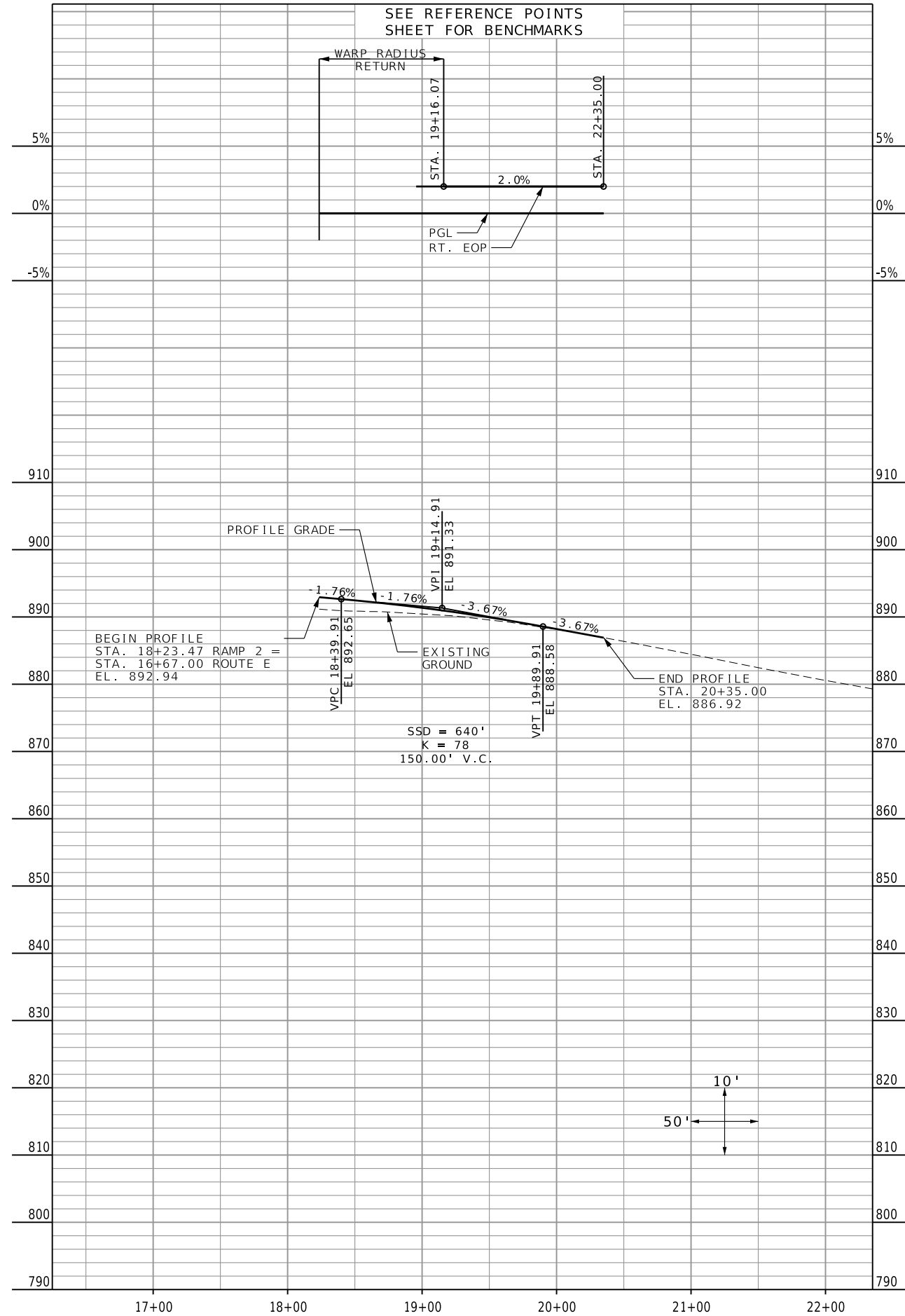
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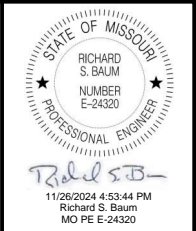
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RAMP 2 PROFILE
STA. 18+23.47 TO 20+35



DATE PREPARED	
26-NOV-2024	
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E	MO
DISTRICT	SHEET NO.
NE	9
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

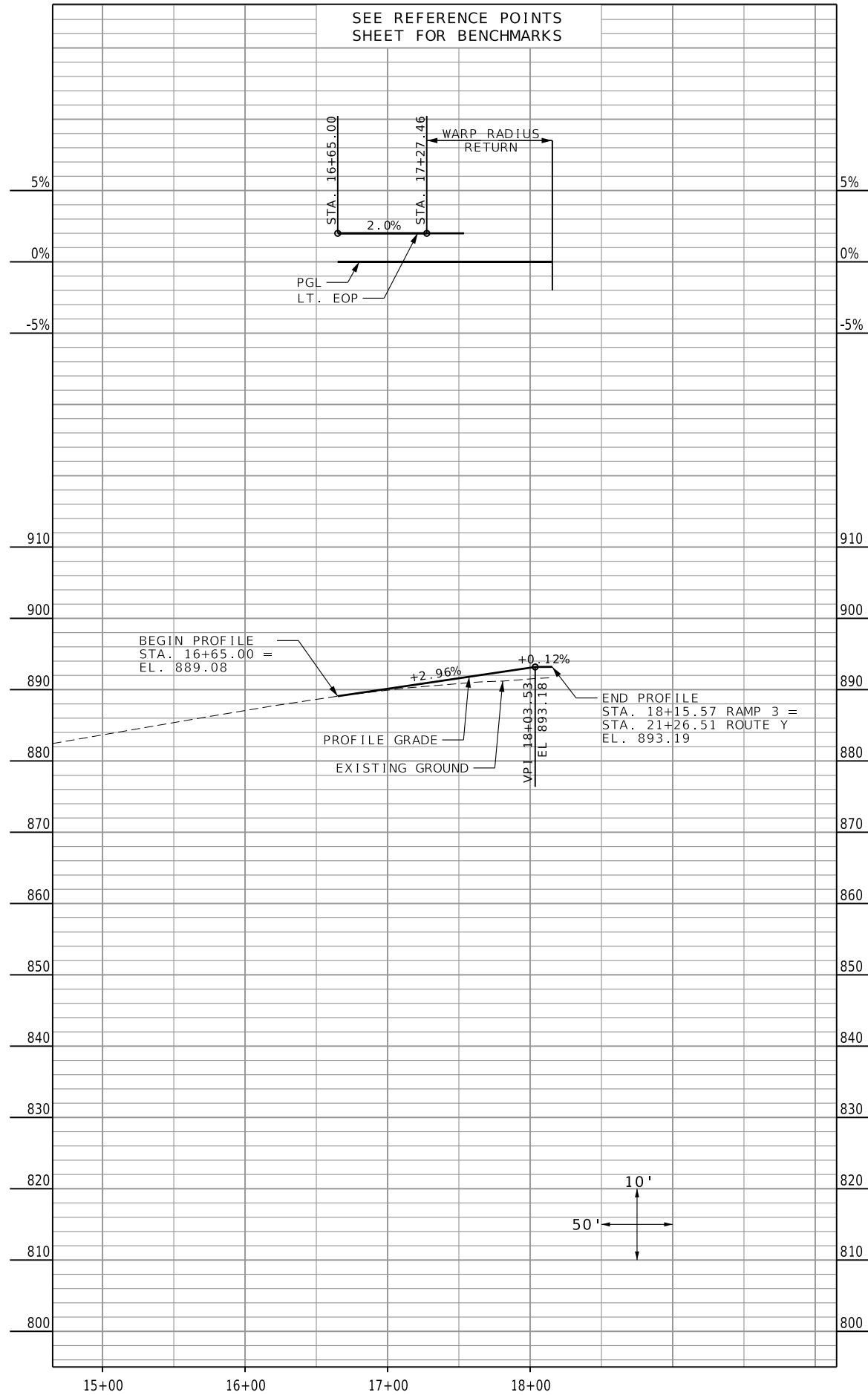
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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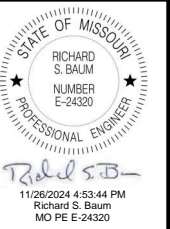
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RAMP 3 PROFILE
 STA. 16+65 TO 18+15.57



DATE PREPARED
 26-NOV-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 NE 10

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

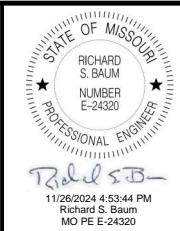
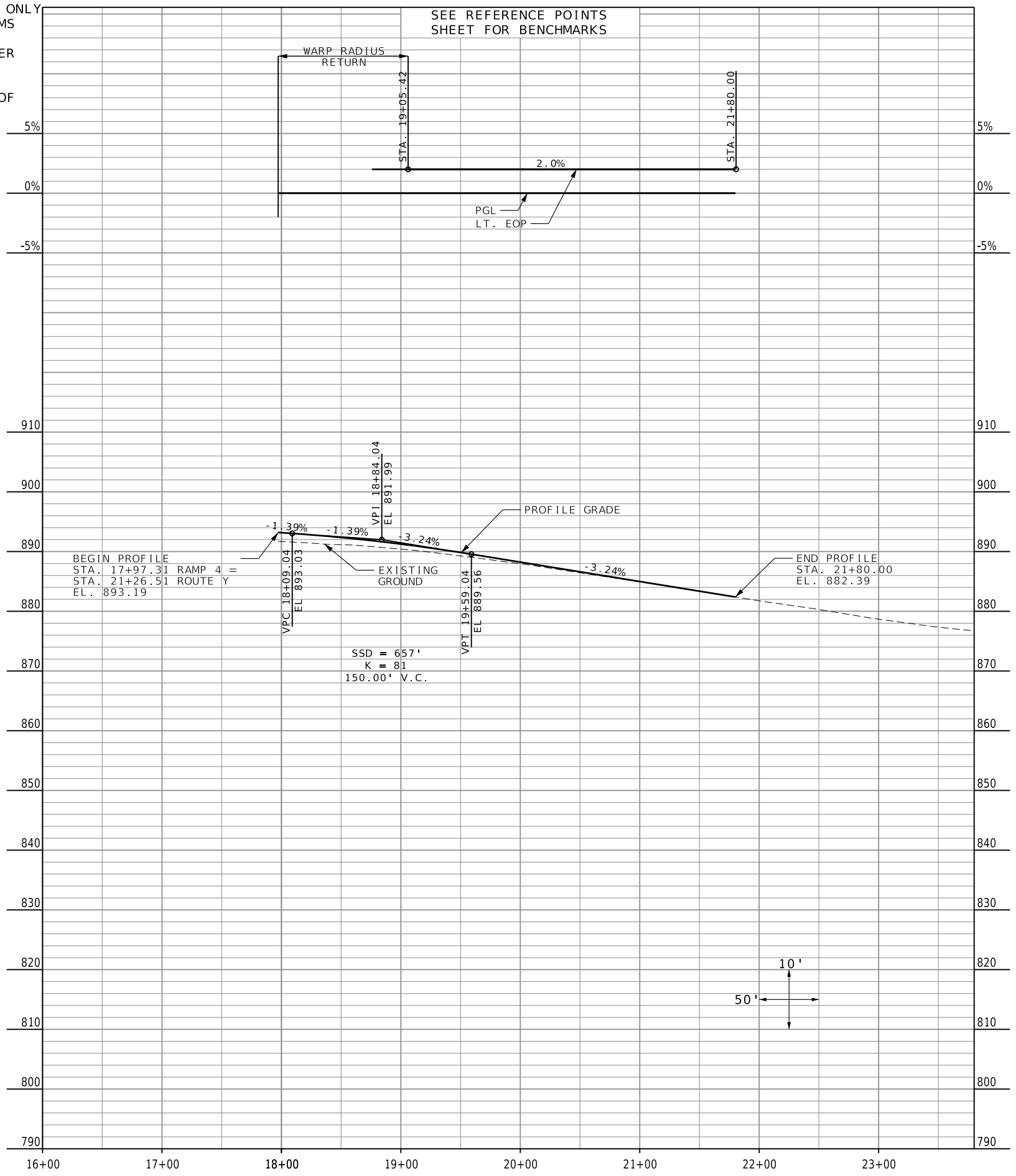
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DATE PREPARED
 26-NOV-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 NE 11

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

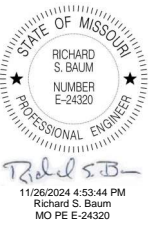
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RAMP 4 PROFILE
 STA. 17+97.31 TO 21+80

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DATE PREPARED
 26-NOV-2024
 ROUTE STATE
 E MO
 DISTRICT SHEET NO.
 NE 12
 COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

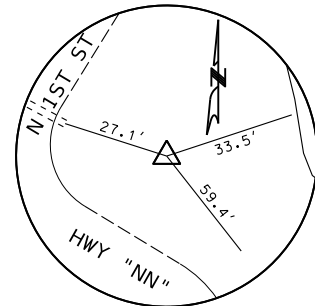
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

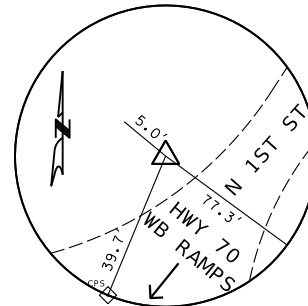
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 CERTIFICATE OF AUTHORITY #00704

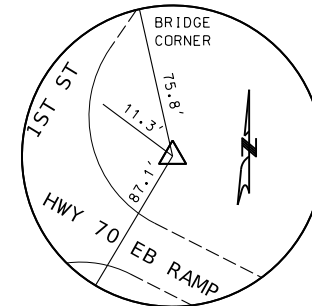
CONTROL POINT COORDINATES ARE MODIFIED STATE PLANE
 PROJECT PROJECTION FACTOR = 1.0000391772



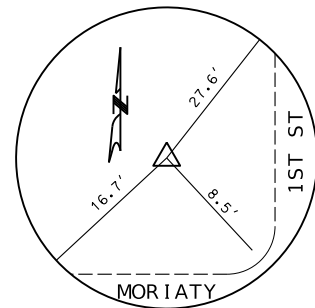
CONTROL POINT NO. 8
 IRON ROD W/CAP
 N: 1103477.739
 E: 591819.069
 EL: 865.80



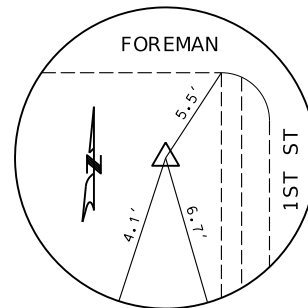
CONTROL POINT NO. 9
 IRON ROD W/CAP
 N: 1102688.873
 E: 591363.565
 EL: 889.90



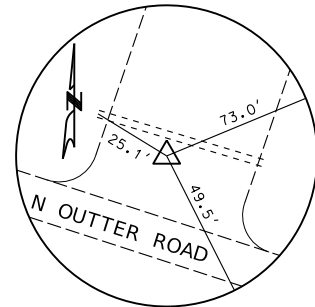
CONTROL POINT NO. 10
 N: 1102262.108
 E: 591215.079
 EL: 890.59



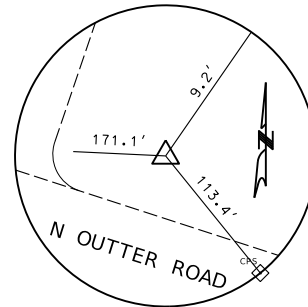
CONTROL POINT NO. 11
 IRON ROD W/CAP
 N: 1101691.728
 E: 590979.248
 EL: 893.10



CONTROL POINT NO. 12
 IRON ROD W/CAP
 N: 1101111.897
 E: 590861.318
 EL: 899.24



CONTROL POINT NO. 13
 IRON ROD W/CAP
 N: 1102094.052
 E: 592412.781
 EL: 876.29



CONTROL POINT NO. 14
 IRON ROD W/CAP
 N: 1103048.239
 E: 590048.489
 EL: 872.79

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REFERENCE POINTS
 SHEET 1 OF 1

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ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED MISSOURI STATE PLANE
HORIZONTAL DATUM	NAD 83 (2011) (EPOCH 2010)
VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	12B
ELEVATIONS DETERMINED BY	GNS DERIVED
PROJECT PROJECTION FACTOR	1.0000391772
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MO CORS
DESIGNATION	MODOT WARRENTON CORS ARP
CORS_ID	MOWR
PID	DL6157
LATITUDE	38°48'52.70169" (N)
LONGITUDE	091°09'40.92390 (W)
NORTHING (M)	331062.384
EASTING (M)	192562.461
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.9999608243
EXAMPLE OF PROJECT COORDINATE TO S.P.C.	
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING	
PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING	
EXAMPLE: CONTROL POINT #1 N 1095316.0650 X 0.9999435545 = N 1095254.2393 E 613135.4330 X 0.9999435545 = E 613100.8243	
LINEAR UNIT CONVERSION	
1 METER = 3.280833333 US SURVEY FEET (USFT)	

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COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	
PROJECT CONTROL POINTS							
4	7+12.04	LT	33.40	1103477.7390	591819.0690	865.80	CONTROL PT 8: EXIST RT E STATIONING
4	16+21.31	RT	21.69	1102688.8730	591363.5650	889.90	CONTROL PT 9: EXIST RT E STATIONING
5	20+69.45	LT	36.12	1102262.1080	591215.0790	890.59	CONTROL PT 10: EXIST RT E STATIONING
5	618+21.96	RT	793.89	1101691.7280	590979.2480	893.10	CONTROL PT 11: EXIST I-70 STATIONING
-	619+14.92	RT	1378.24	1101111.8970	590861.3180	899.24	CONTROL PT 12: EXIST I-70 STATIONING
-	630+10.36	LT	124.71	1102094.0520	592412.7810	876.29	CONTROL PT 13: EXIST I-70 STATIONING
-	604+74.49	LT	149.92	1103048.2390	590048.4890	872.79	CONTROL PT 14: EXIST I-70 STATIONING

ALIGNMENT: RT E/Y CL (EXISTING ROUTE E/Y)							
	0+00.00			1104167.9133	591972.0965		BEGINNING OF ALIGNMENT
	2+00.00			1103967.9883	591966.6202		PC
	3+27.02			1103841.0129	591963.1422		HPI
	4+50.01 BK=			1103727.3710	591906.3940		PT
	4+49.70 AH						
	21+74.40			1102184.3574	591135.8751		PC
	22+68.77			1102099.9323	591093.7166		HPI
	23+62.05 BK=			1102007.4725	591074.8455		PT
	23+61.90 AH						
	26+00.00			1101774.1820	591027.2306		END OF ALIGNMENT

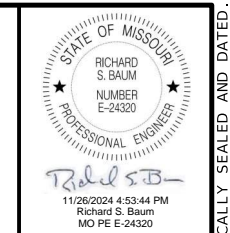
ALIGNMENT: I70 CL (EXISTING INTERSTATE 70)							
	598+23.70			1103136.1385	589386.4618		BEGINNING OF ALIGNMENT
	623+48.90			1102250.3214	591751.1950		PC
	633+06.00			1101914.5794	592647.4750		HPI
	642+45.56			1101305.7585	593385.9718		PT
	644+99.96			1101143.9321	593582.2664		END OF ALIGNMENT

ALIGNMENT: PRAMP1 (PROPOSED RAMP 1)							
	7+45.45			1102866.5301	590269.9453		PC - BEGINNING OF ALIGNMENT
	9+83.97			1102783.4601	590493.5255		HPI
	12+21.04			1102744.1654	590728.7799		PT
	18+63.60			1102638.3052	591362.5583		END OF ALIGNMENT

ALIGNMENT: PRAMP2 (PROPOSED RAMP 2)							
	18+23.47			1102638.3052	591362.5583		BEGINNING OF ALIGNMENT
	24+46.96			1102293.9884	591882.3578		PC
	26+55.70			1102178.7027	592056.3634		HPI
	28+63.76			1102088.6248	592244.6575		PT - END OF ALIGNMENT

ALIGNMENT: PRAMP3 (PROPOSED RAMP 3)							
	4+35.75			1102880.1669	589944.5629		PC - BEGINNING OF ALIGNMENT
	8+05.32			1102750.3784	590290.5944		HPI
	11+72.80			1102559.3865	590606.9881		PT
	18+15.57			1102227.2061	591157.2720		END OF ALIGNMENT

ALIGNMENT: PRAMP4 (PROPOSED RAMP 4)							
	17+97.31			1102227.2061	591157.2720		BEGINNING OF ALIGNMENT
	24+40.64			1102126.9228	591792.7373		PC
	26+18.29			1102099.2306	591968.2146		HPI
	27+93.75			1102025.4739	592129.8286		PT - END OF ALIGNMENT



DATE PREPARED
26-NOV-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 13

COUNTY
MONTGOMERY

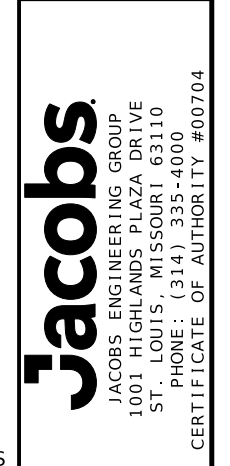
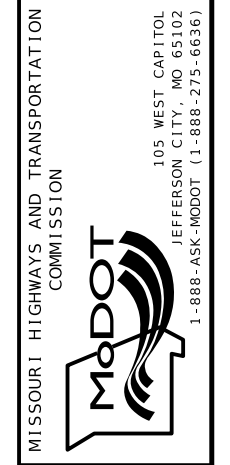
JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



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



Richard S. Baum
MO PE E-24320

DATE PREPARED
26-NOV-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 14

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

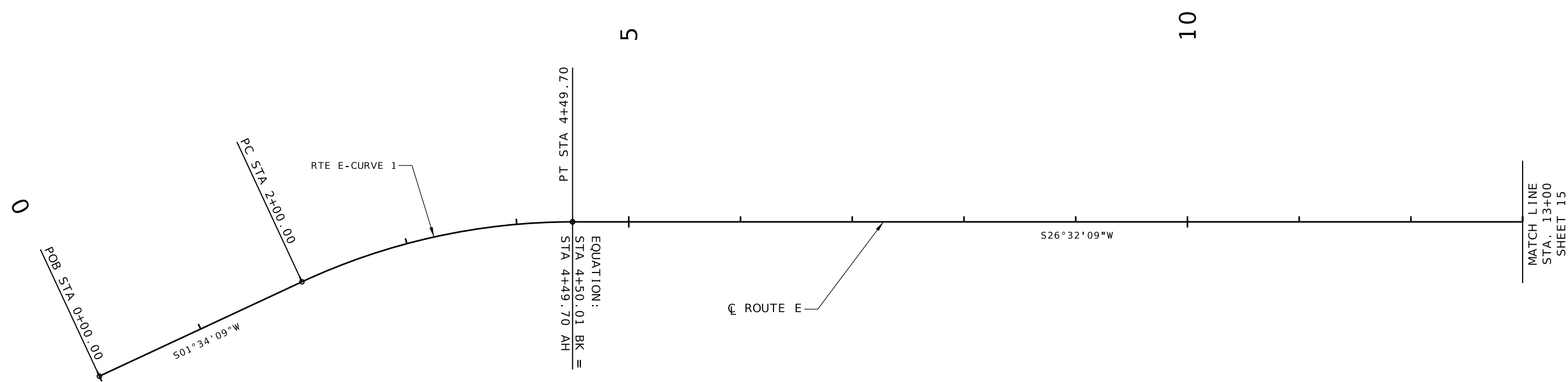
BRIDGE NO.

DATE	DESCRIPTION

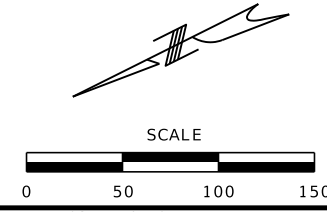
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

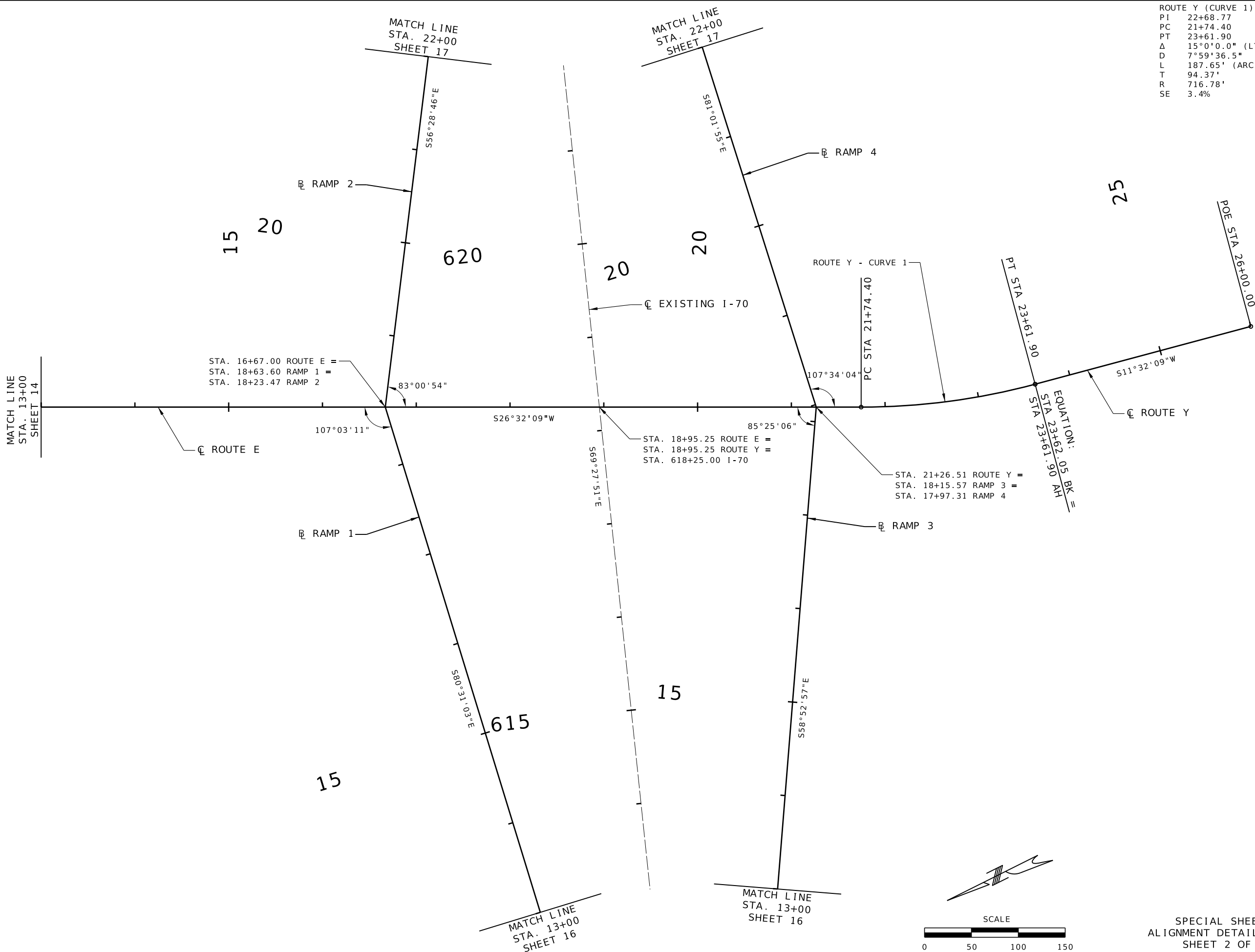
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



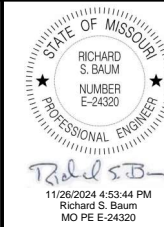
ROUTE E (CURVE 1)
 PI 3+27.02
 PC 2+00.00
 PT 4+49.70
 Δ 24°58'0.0" (RT)
 D 9°59'10.1"
 L 250.01' (ARC)
 T 127.02'
 R 573.75'



SPECIAL SHEET
ALIGNMENT DETAILS
SHEET 1 OF 4



ROUTE Y (CURVE 1)
 PI 22+68.77
 PC 21+74.40
 PT 23+61.90
 Δ 15°0'0.0" (LT)
 D 7°59'36.5"
 L 187.65' (ARC)
 T 94.37'
 R 716.78'
 SE 3.4%



DATE PREPARED
 26-NOV-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	15

COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

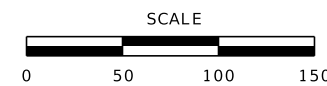
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



SPECIAL SHEET
 ALIGNMENT DETAILS
 SHEET 2 OF 4

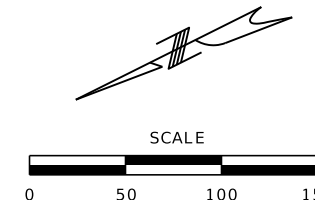
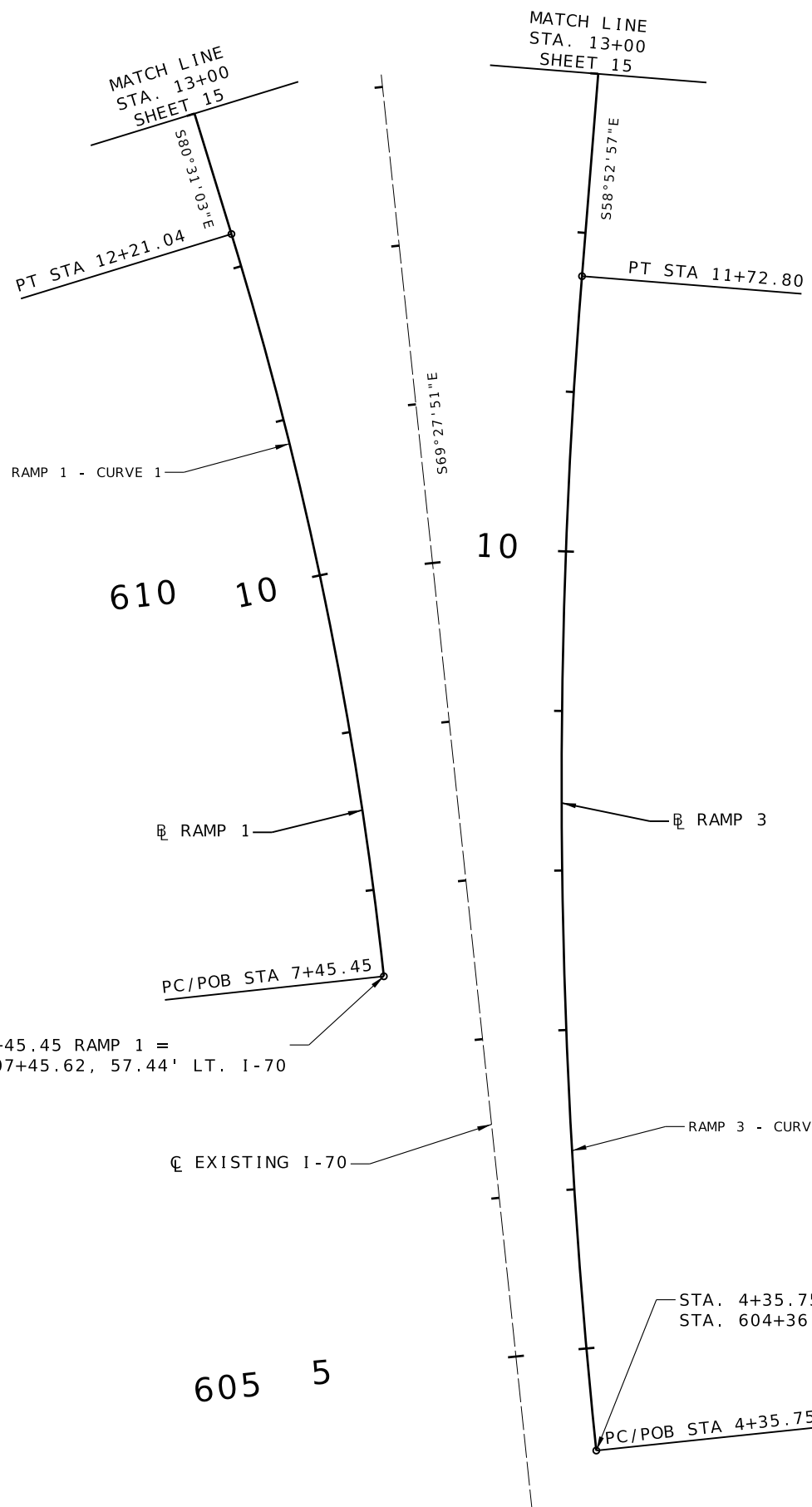
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

RAMP 1 (CURVE 1)
 PI 9+83.97
 PC 7+45.45
 PT 12+21.04
 Δ 10°53'58.8" (LT)
 D 2°17'30.6"
 L 475.59' (ARC)
 T 238.51'
 R 2,500.00'

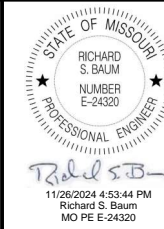
RAMP 3 (CURVE 1)
 PI 8+05.32
 PC 4+35.75
 PT 11+72.80
 Δ 10°33'26.9" (RT)
 D 1°25'56.6"
 L 737.05' (ARC)
 T 369.57'
 R 4,000.00'

STA. 7+45.45 RAMP 1 =
 STA. 607+45.62, 57.44' LT. I-70

STA. 4+35.75 RAMP 3 =
 STA. 604+36.13, 43.93' RT. I-70



SPECIAL SHEET
 ALIGNMENT DETAILS
 SHEET 3 OF 4



DATE PREPARED
 26-NOV-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	16

COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

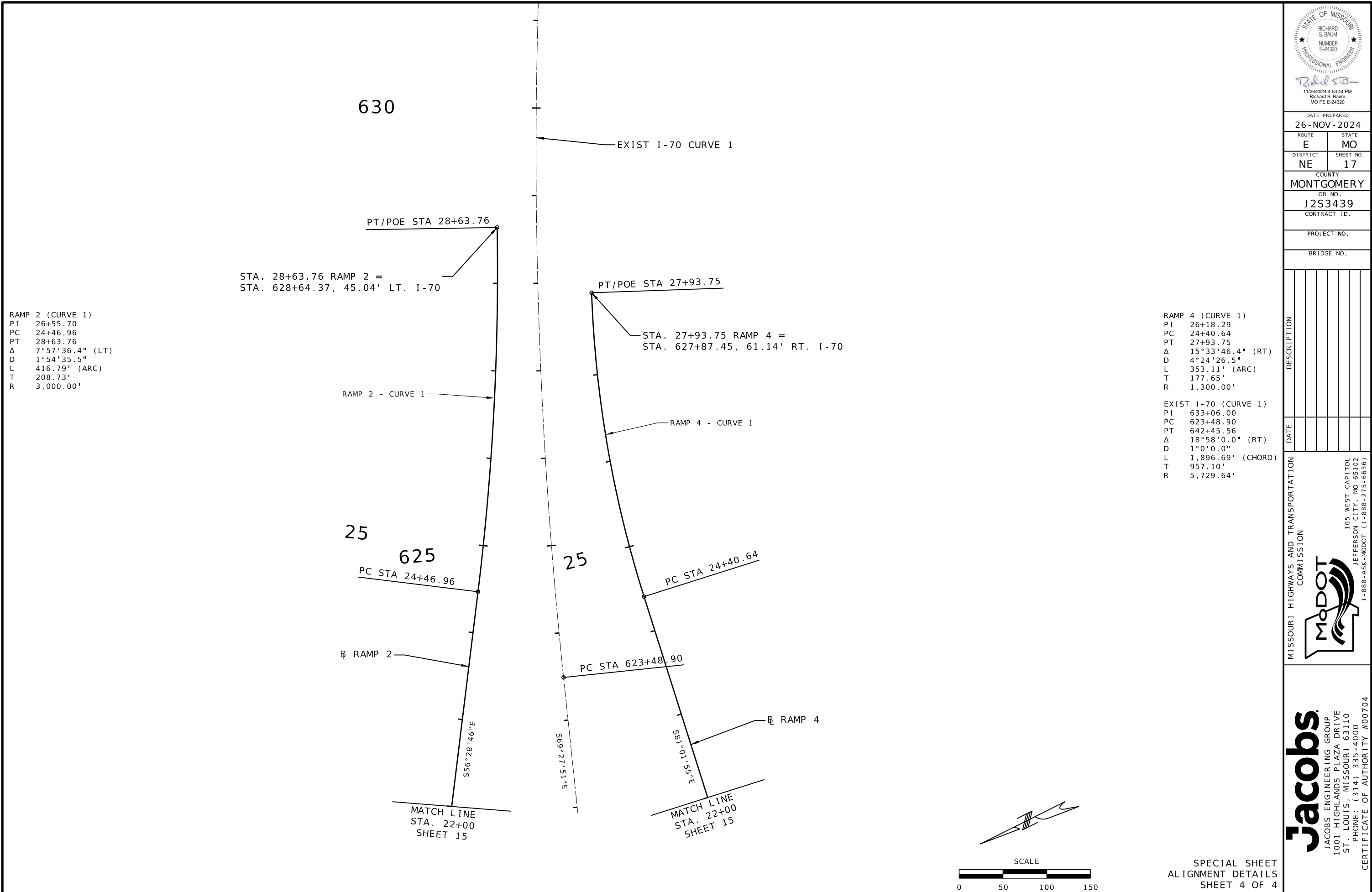
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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



RAMP 2 (CURVE 1)
 PI 26+55.70
 PC 24+46.96
 PT 28+63.76
 Δ 7°57'36.4" (LT)
 D 1°54'35.5"
 L 416.79' (ARC)
 T 208.73'
 R 3,000.00'

STA. 28+63.76 RAMP 2 =
 STA. 628+64.37, 45.04' LT. I-70

RAMP 2 - CURVE 1

25
 625
 PC STA 24+46.96

RAMP 2

MATCH LINE
 STA. 22+00
 SHEET 15

S56°28'46"E

PT/POE STA 27+93.75

STA. 27+93.75 RAMP 4 =
 STA. 627+87.45, 61.14' RT. I-70

RAMP 4 - CURVE 1

25
 PC STA 24+40.64

PC STA 623+48.90

RAMP 4

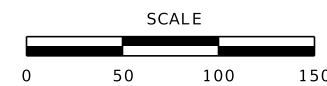
MATCH LINE
 STA. 22+00
 SHEET 15

S81°01'55"E

S61°27'51"E

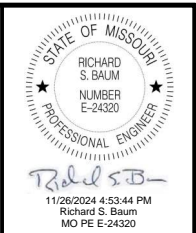
EXIST I-70 CURVE 1

630



RAMP 4 (CURVE 1)
 PI 26+18.29
 PC 24+40.64
 PT 27+93.75
 Δ 15°33'46.4" (RT)
 D 4°24'26.5"
 L 353.11' (ARC)
 T 177.65'
 R 1,300.00'

EXIST I-70 (CURVE 1)
 PI 633+06.00
 PC 623+48.90
 PT 642+45.56
 Δ 18°58'0.0" (RT)
 D 1°0'0.0"
 L 1,896.69' (CHORD)
 T 957.10'
 R 5,729.64'



DATE PREPARED	
26-NOV-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	17
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
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)

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SPECIAL SHEET
 ALIGNMENT DETAILS
 SHEET 4 OF 4

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

- (A) STA. 15+84.09, 113.00' LT. RTE. E CC 95'R
- (B) STA. 16+10.95, 77.00' LT. RTE. E CC 65'R
- (C) STA. 16+13.28, 79.55' LT. RTE. E CC 55'R
- (D) STA. 16+15.24, 87.00' RT. RTE. E CC 75'R
- (E) STA. 16+05.01, 98.00' RT. RTE. E CC 80'R
- (F) STA. 17+41.59, 52.00' LT. RTE. E CC 30'R
- (G) STA. 17+75.54, 80.00' LT. RTE. E CC 74'R & 80'R
- (H) STA. 17+51.06, 42.00' RT. RTE. E CC 20'R
- (I) STA. 17+87.28, 75.00' RT. RTE. E CC 69'R & 75'R
- (J) STA. 16+10.95, 12.00' LT. RTE. E PC 65'R
- (K) STA. 18+93.08, 0.00' LT. RAMP 2 PT 65'R
- (L) STA. 15+84.09, 18.00' LT. RTE. E PC 95'R
- (M) STA. 16+09.32, 21.41' LT. RTE. E PT 95'R
- (N) STA. 16+27.89, 26.53' LT. RTE. E PC 55'R
- (O) STA. 18+95.90, 8.00' LT. RAMP 2 PT 55'R
- (P) STA. 16+15.24, 12.00' RT. RTE. E PC 75'R
- (Q) STA. 17+95.60, 0.00' LT. RAMP 1 PT 75'R
- (R) STA. 16+05.01, 18.00' RT. RTE. E PC 80'R
- (S) STA. 17+88.09, 8.00' LT. RAMP 1 PT 80'R
- (T) STA. 19+16.07, 18.00' RT. RAMP 2 PC 80'R
- (U) STA. 17+33.39, 12.00' LT. RTE. E PT 80'R
- (V) STA. 19+16.07, 24.00' RT. RAMP 2 PC 74'R
- (W) STA. 17+18.45, 32.91' LT. RTE. E PCC 74'R, 30'R
- (X) STA. 17+41.59, 22.00' LT. RTE. E PT 30'R
- (Y) STA. 17+56.62, 18.00' RT. RAMP 1 PC 75'R
- (Z) STA. 17+41.93, 15.27' RT. RTE. E PT 75'R
- (AA) STA. 17+56.62, 24.00' RT. RAMP 1 PC 69'R
- (BB) STA. 17+36.28, 28.53' RT. RTE. E PCC 69'R, 20'R
- (CC) STA. 17+51.06, 22.00' RT. RTE. E PT 20'R

5

10

15

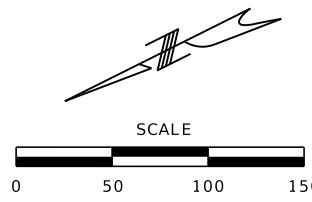
ROUTE E

RAMP 2

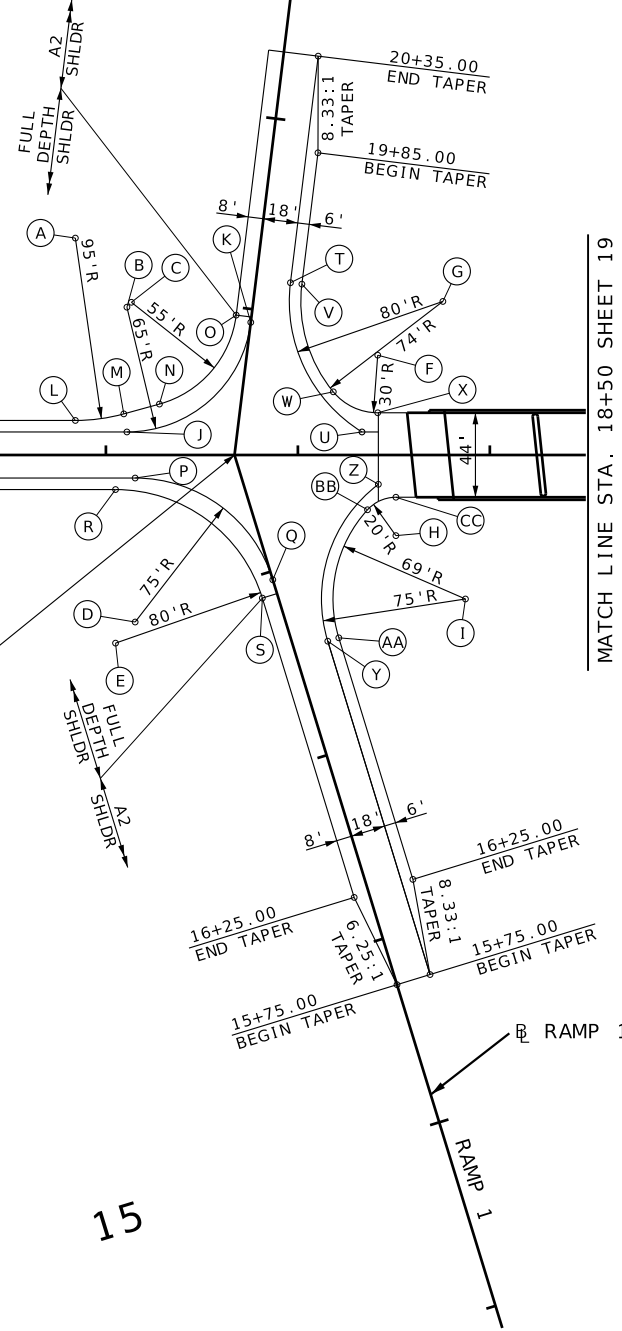
RAMP 2

MATCH LINE STA. 18+50 SHEET 19

STA. 16+67.00 RTE E
 STA. 18+63.60 RAMP 1
 STA. 18+23.47 RAMP 2



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SPECIAL SHEET
 INTERSECTION DETAILS
 SHEET 1 OF 2



Richard S. Baum
 11/26/2024 4:53:44 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
 26-NOV-2024

ROUTE STATE
 E MO
 DISTRICT SHEET NO.
 NE 18

COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

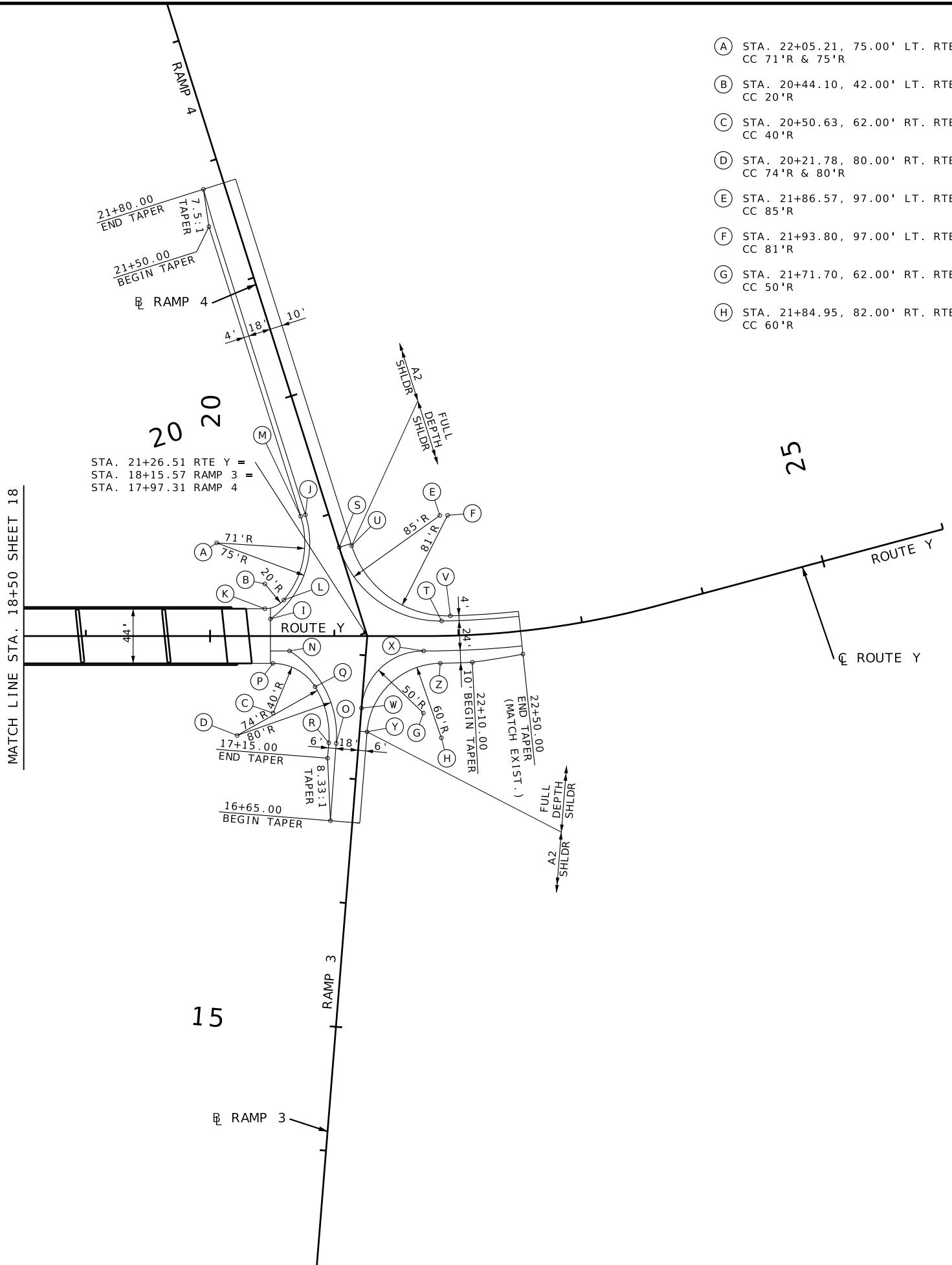
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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

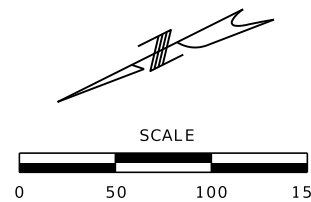


- Ⓐ STA. 22+05.21, 75.00' LT. RTE. Y
CC 71'R & 75'R
- Ⓑ STA. 20+44.10, 42.00' LT. RTE. Y
CC 20'R
- Ⓒ STA. 20+50.63, 62.00' RT. RTE. Y
CC 40'R
- Ⓓ STA. 20+21.78, 80.00' RT. RTE. Y
CC 74'R & 80'R
- Ⓔ STA. 21+86.57, 97.00' LT. RTE. Y
CC 85'R
- Ⓕ STA. 21+93.80, 97.00' LT. RTE. Y
CC 81'R
- Ⓖ STA. 21+71.70, 62.00' RT. RTE. Y
CC 50'R
- Ⓗ STA. 21+84.95, 82.00' RT. RTE. Y
CC 60'R
- Ⓘ STA. 20+48.57, 13.81' LT. RTE. Y
PC 75'R
- Ⓝ STA. 19+05.42, 18.00' LT. RAMP 4
PT 75'R
- Ⓚ STA. 20+44.10, 22.00' LT. RTE. Y
PC 20'R
- Ⓛ STA. 20+59.34, 29.06' LT. RTE. Y
PCC 20'R & 71'R
- Ⓜ STA. 19+05.42, 22.00' LT. RAMP 4
PT 71'R
- Ⓝ STA. 20+63.92, 12.00' RT. RTE. Y
PC 80'R
- Ⓞ STA. 17+27.46, 18.00' LT. RAMP 3
PT 80'R
- Ⓟ STA. 20+50.63, 22.00' RT. RTE. Y
PC 40'R
- Ⓠ STA. 20+84.56, 40.82' RT. RTE. Y
PCC 40'R & 74'R
- Ⓡ STA. 17+27.46, 24.00' LT. RAMP 3
PT 74'R
- Ⓢ STA. 18+72.24, 0.00' RT. RAMP 4
PC 85'R
- Ⓣ STA. 21+86.57, 12.00' LT. RTE. Y
PT 85'R
- Ⓤ STA. 18+70.48, 10.00' RT. RAMP 4
PC 81'R
- Ⓥ STA. 21+93.80, 16.00' LT. RTE. Y
PT 81'R
- Ⓦ STA. 17+57.38, 0.00' RT. RAMP 3
PC 50'R
- Ⓧ STA. 21+71.87, 12.00' RT. RTE. Y
PT 50'R
- Ⓨ STA. 17+38.68, 6.00' RT. RAMP 3
PC 60'R
- Ⓩ STA. 21+84.95, 22.00' RT. RTE. Y
PT 60'R

MATCH LINE STA. 18+50 SHEET 18

STA. 21+26.51 RTE Y =
STA. 18+15.57 RAMP 3 =
STA. 17+97.31 RAMP 4

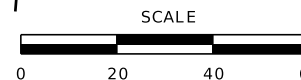
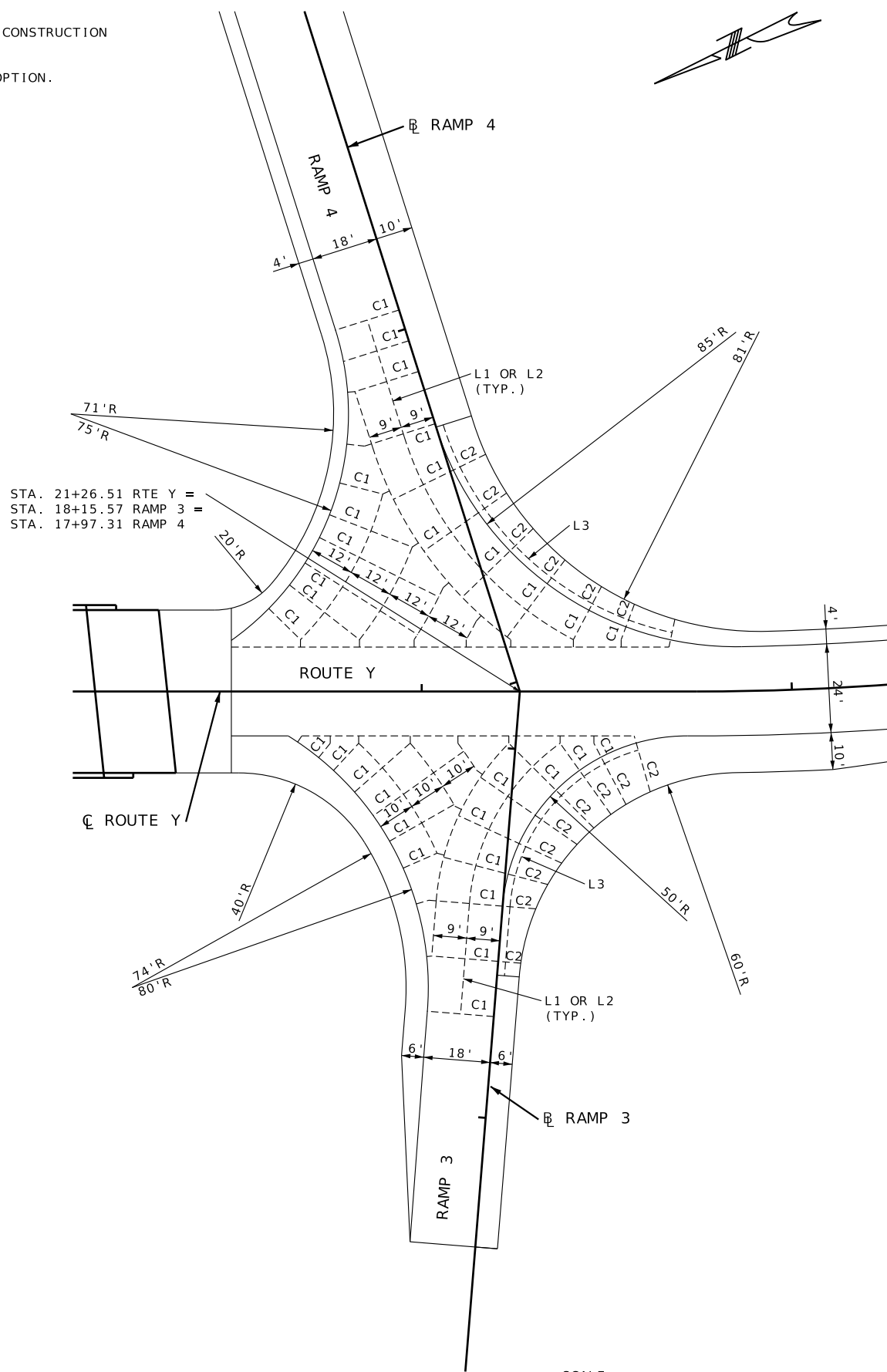
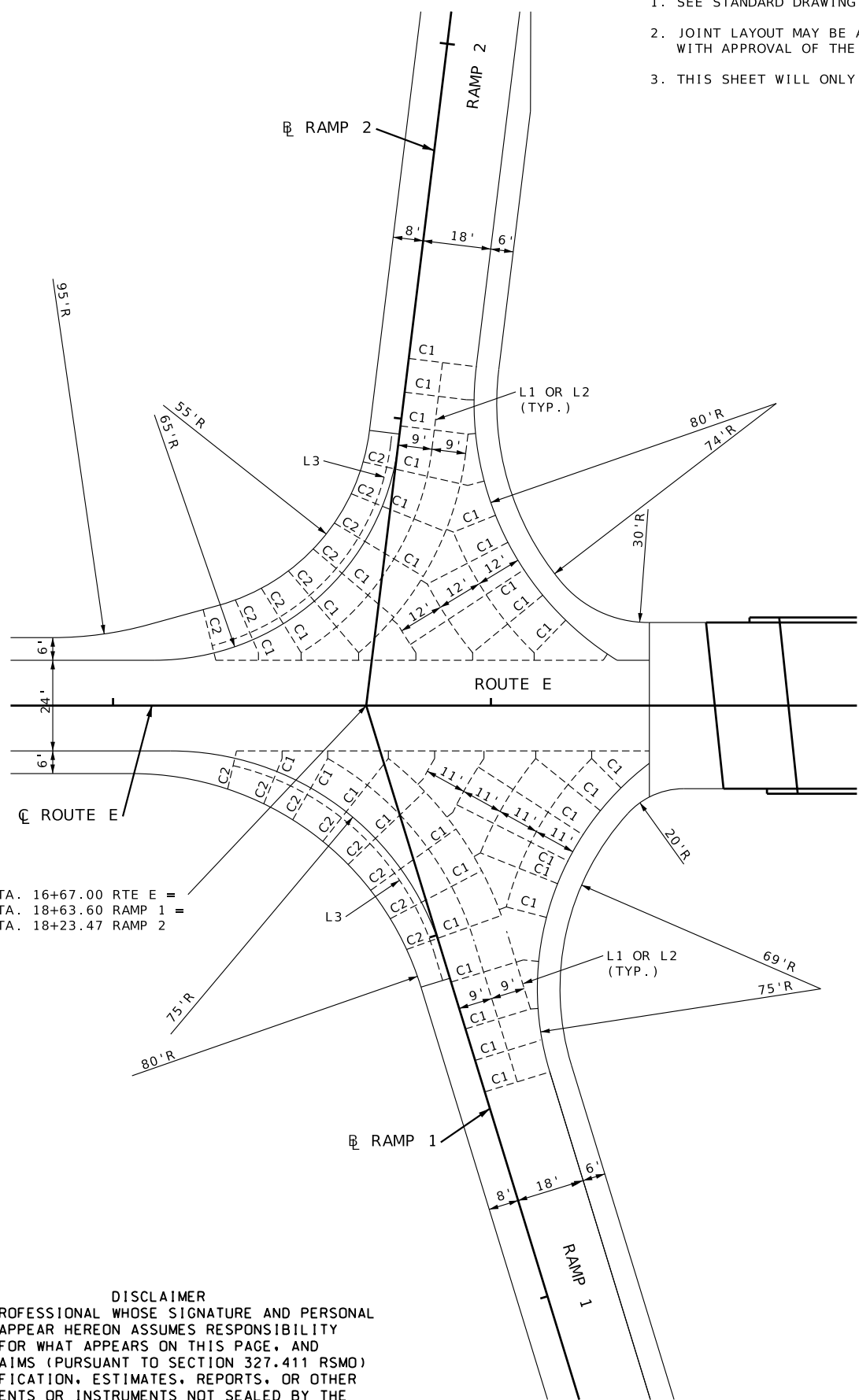
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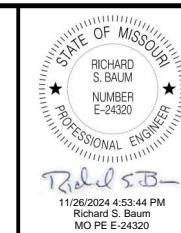
SPECIAL SHEET
INTERSECTION DETAILS
SHEET 2 OF 2

DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 19
COUNTY MONTGOMERY	
JOB NO. J2S3439	
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)	
JACOBS ENGINEERING GROUP 1001 HIGHLANDS PLAZA DRIVE ST. LOUIS, MISSOURI 63110 PHONE: (314) 335-4000 CERTIFICATE OF AUTHORITY #00704	

- NOTES:
1. SEE STANDARD DRAWING 502.05 FOR JOINT LAYOUT DETAILS.
 2. JOINT LAYOUT MAY BE ADJUSTED IN THE FIELD FOR EASE OF CONSTRUCTION WITH APPROVAL OF THE ENGINEER.
 3. THIS SHEET WILL ONLY APPLY TO THE CONCRETE PAVEMENT OPTION.



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DATE PREPARED
 26-NOV-2024
 ROUTE STATE
 E MO
 DISTRICT SHEET NO.
 NE 20
 COUNTY
 MONTGOMERY
 JOB NO.
 J253439
 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)

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SPECIAL SHEET
 JOINT LAYOUT DETAILS
 SHEET 1 OF 1

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

TRAFFIC CONTROL LEGEND

Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA-1000' SB-1500' SC-2640'**

TAPER LENGTH (L)
 $L = W \times P$ FOR 40 MPH OR MORE
 $L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS
 L=TAPER LENGTH IN FEET
 W=LATERAL SHIFT IN FEET
 P=POSTED SPEED PRIOR TO ROAD WORK IN MPH

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)
	10'	11'	12'	
≤40	160'	168'	176'	BARRIER HEIGHT TRANSITION
>40	160'	168'	176'	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT.	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35'	40'
40-45	450'	495'	540'	150'	400'	40'	80'
50-55	550'	605'	660'	185'	560'	50'	80'
60-70	700'	770'	840'	235'	840'	60'	120'

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.
 THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.
 THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.
 (THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE.)

DETAIL NOTES:

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.
- (4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◁ FLAGGER
- CHANNELIZER
- ▣ PROTECTIVE VEHICLE WITH WORK SIGN, FLASHING ARROW PANEL AND REAR-MOUNTED IMPACT ATTENUATOR UNIT.
- ◻ FLASHING ARROW PANEL
- ◻ CHANGEABLE MESSAGE BOARD
- ⌊ BARRICADE
- ▲ DIRECTIONAL INDICATOR BARRICADES

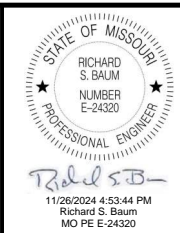
LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

GENERAL NOTES:

1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
4. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE. ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS.

EPG TABLE 616.29 RECOMMENDED MAXIMUM SPEED REDUCTIONS	
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10 FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH
SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.	



DATE PREPARED	
26-NOV-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	21
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
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)

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TEMPORARY TRAFFIC CONTROL
DEVICE SPACING

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

PHASE 1: DEMOLISH EXISTING BRIDGE

- CLOSE I-70 EAST AND WEST, USE RAMPS FOR TRAFFIC FLOW
- CLOSE ROUTE E/Y BRIDGE
- DETOUR WB E/Y BRIDGE TRAFFIC TO ROUTE F AND EB E/Y TRAFFIC TO ROUTE A/B

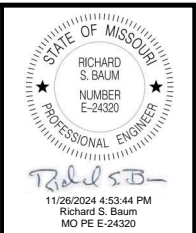
PHASE 2: BEGIN BRIDGE CONSTRUCTION

- OPEN TRAFFIC ON I-70 IN BOTH DIRECTIONS
- PARTIAL SHOULDER CLOSURE ALONG I-70 FOR INTERMEDIATE BENT CONSTRUCTION
- TEMPORARY CLOSURES ALONG I-70 FOR SETTING GIRDERS
- MAINTAIN ROUTE E/Y DETOURS AND BRIDGE CLOSURE
- RAMPS OPEN TO TRAFFIC

PHASE 3: BRIDGE AND RAMP CONSTRUCTION

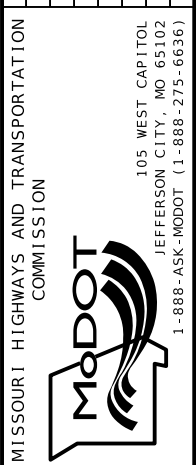
- MAINTAIN TRAFFIC ON I-70 IN BOTH DIRECTIONS
- FULL CLOSURE FOR ALL 4 INTERCHANGE RAMPS
- MAINTAIN ROUTE E/Y DETOURS AND BRIDGE CLOSURE

TRAFFIC CONTROL PLAN
NARRATIVE










DATE PREPARED	26 - NOV - 2024		
ROUTE	E	STATE	MO
DISTRICT	NE	SHEET NO.	22
COUNTY	MONTGOMERY		
JOB NO.	J2S3439		
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

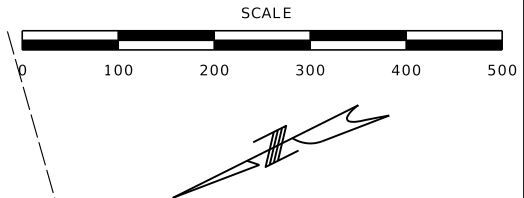
DATE	DESCRIPTION



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

TRAFFIC CONTROL LEGEND

-  REMOVE THIS PHASE
-  CONSTRUCT THIS PHASE
-  SIGN (SINGLE SIDED)
-  FLAGGER
-  CHANNELIZER
-  BARRICADE
-  CHANGEABLE MESSAGE BOARD



STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER

Richard S. Baum
11/26/2024 4:53:44 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 23
COUNTY MONTGOMERY	
JOB NO. J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

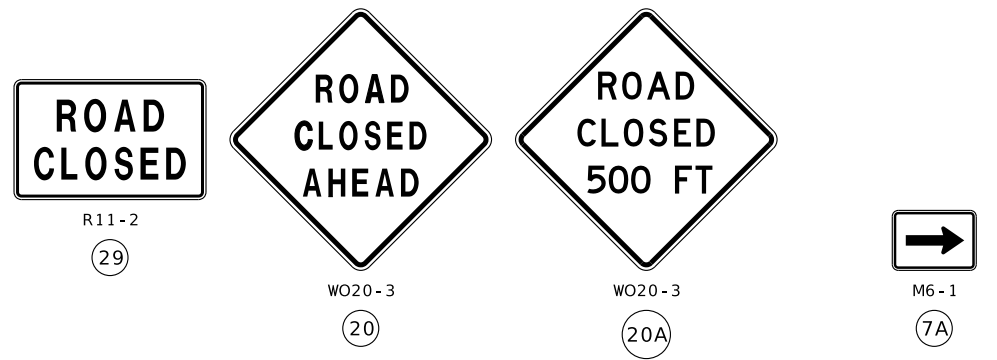
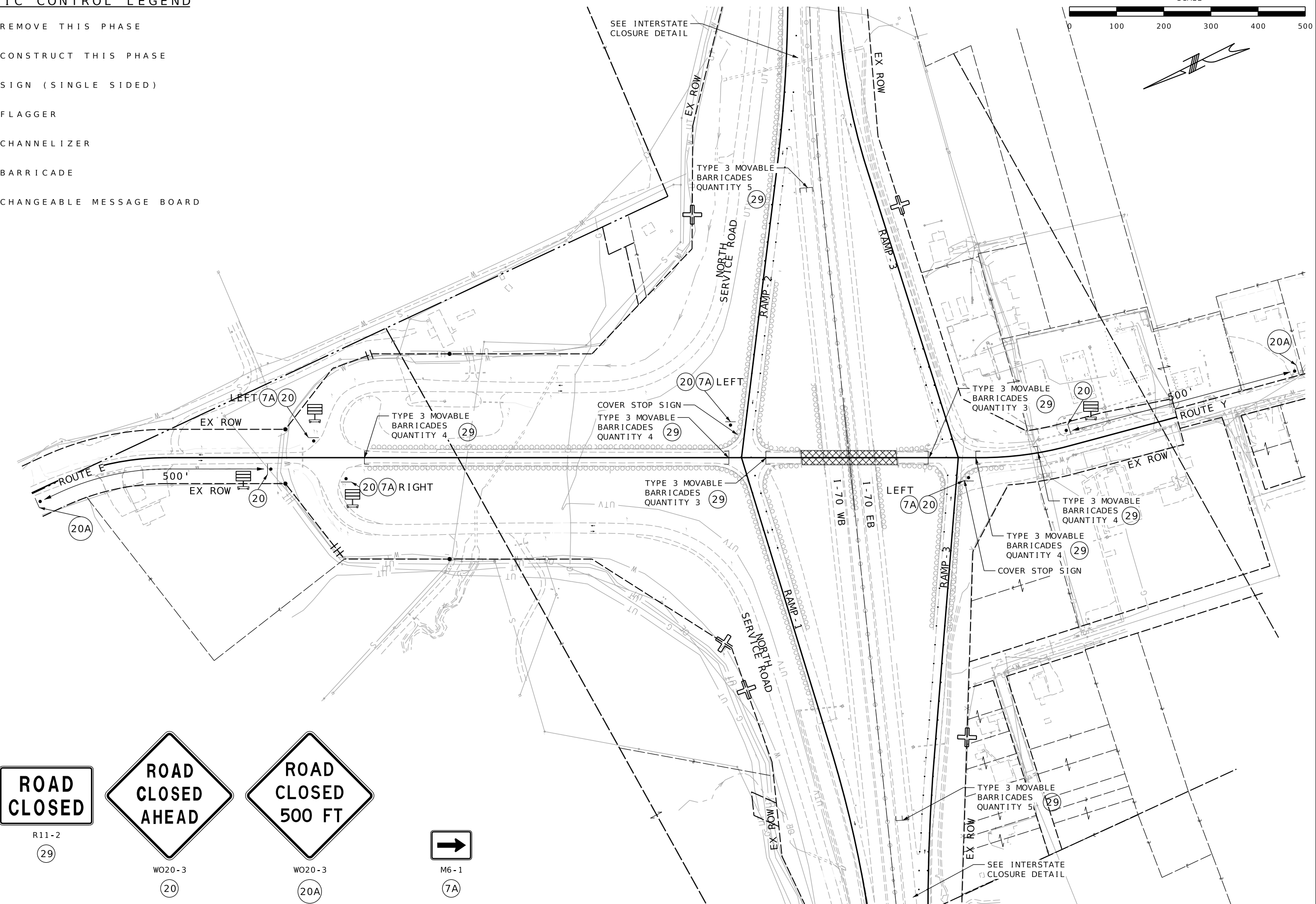
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



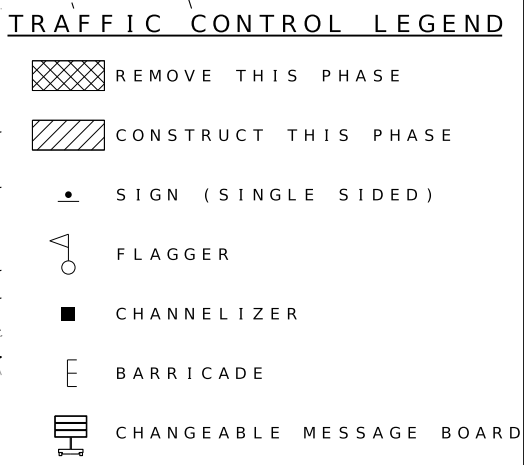
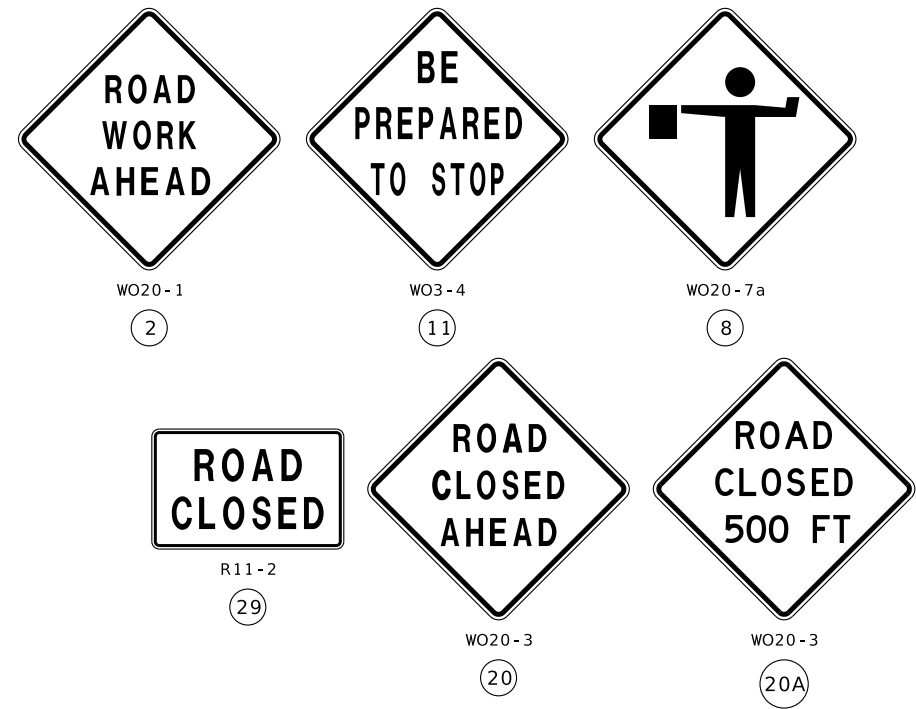
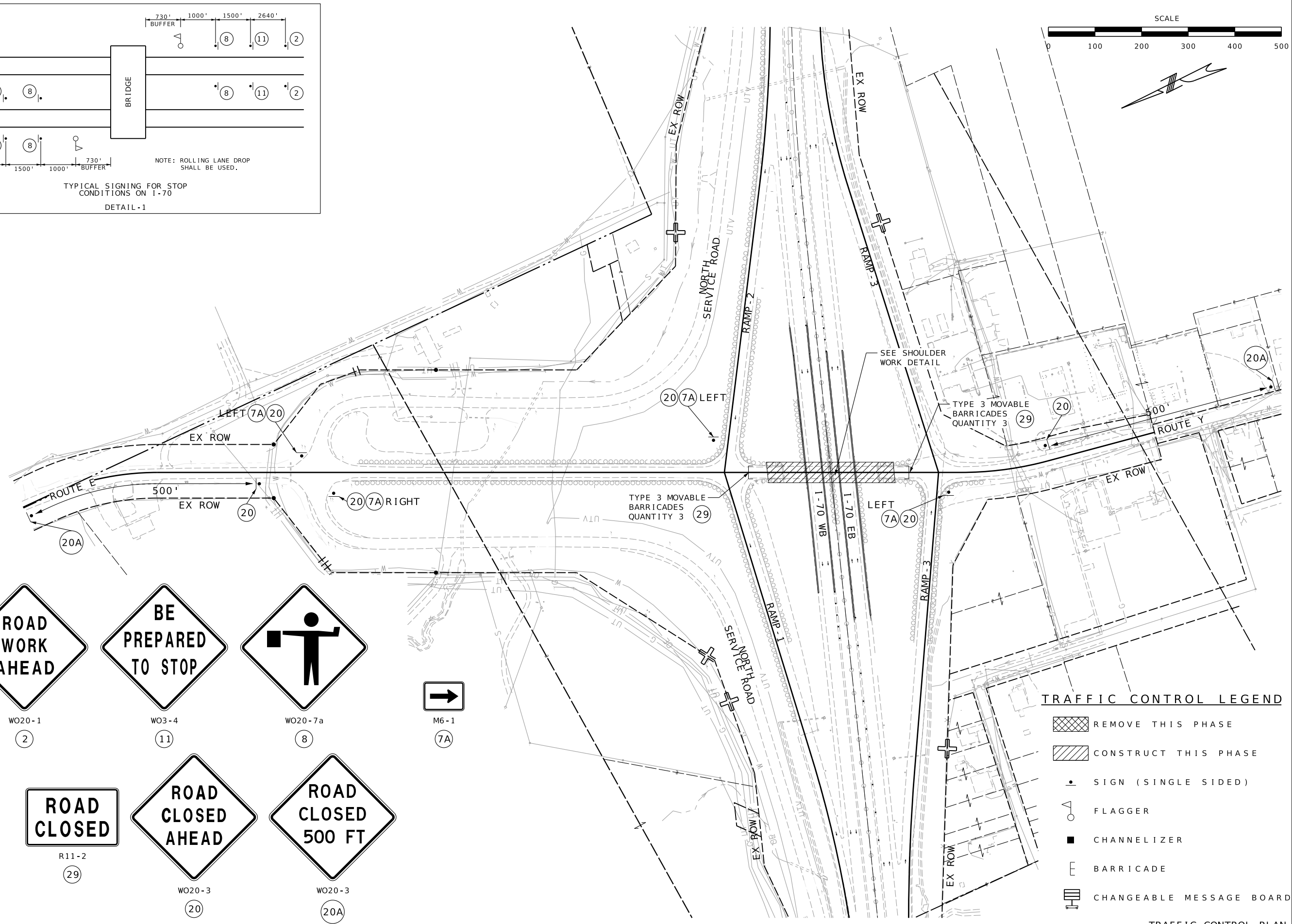
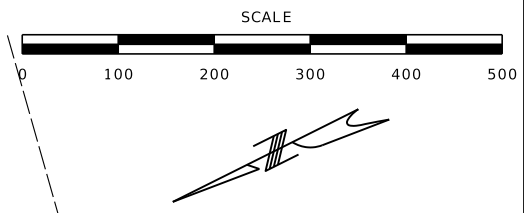
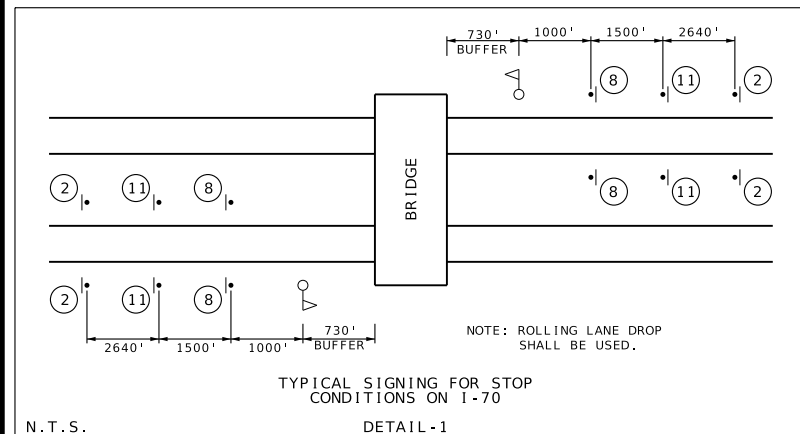
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

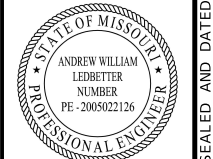
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL PLAN PHASE 1



TRAFFIC CONTROL PLAN PHASE 2



DATE PREPARED
19-DEC-2024

ROUTE E STATE MO
DISTRICT NE SHEET NO. 24

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

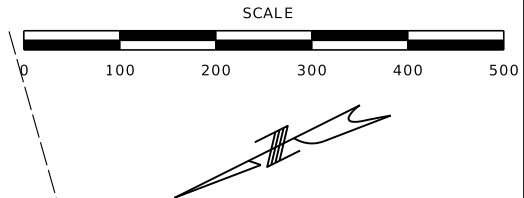
105 WEST CAPITOL
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1001 HIGHLANDS PLAZA DRIVE
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PHONE: (314) 335-4000
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC CONTROL LEGEND

- REMOVE THIS PHASE
- CONSTRUCT THIS PHASE
- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD



NOTE: WHEN RAMP ARE CLOSED SIGN E05-2a SHALL BE PLACED DIAGONALLY ACROSS THE INTERCHANGE GUIDE SIGNS



E05-2a
55



M6-1
7A



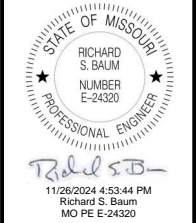
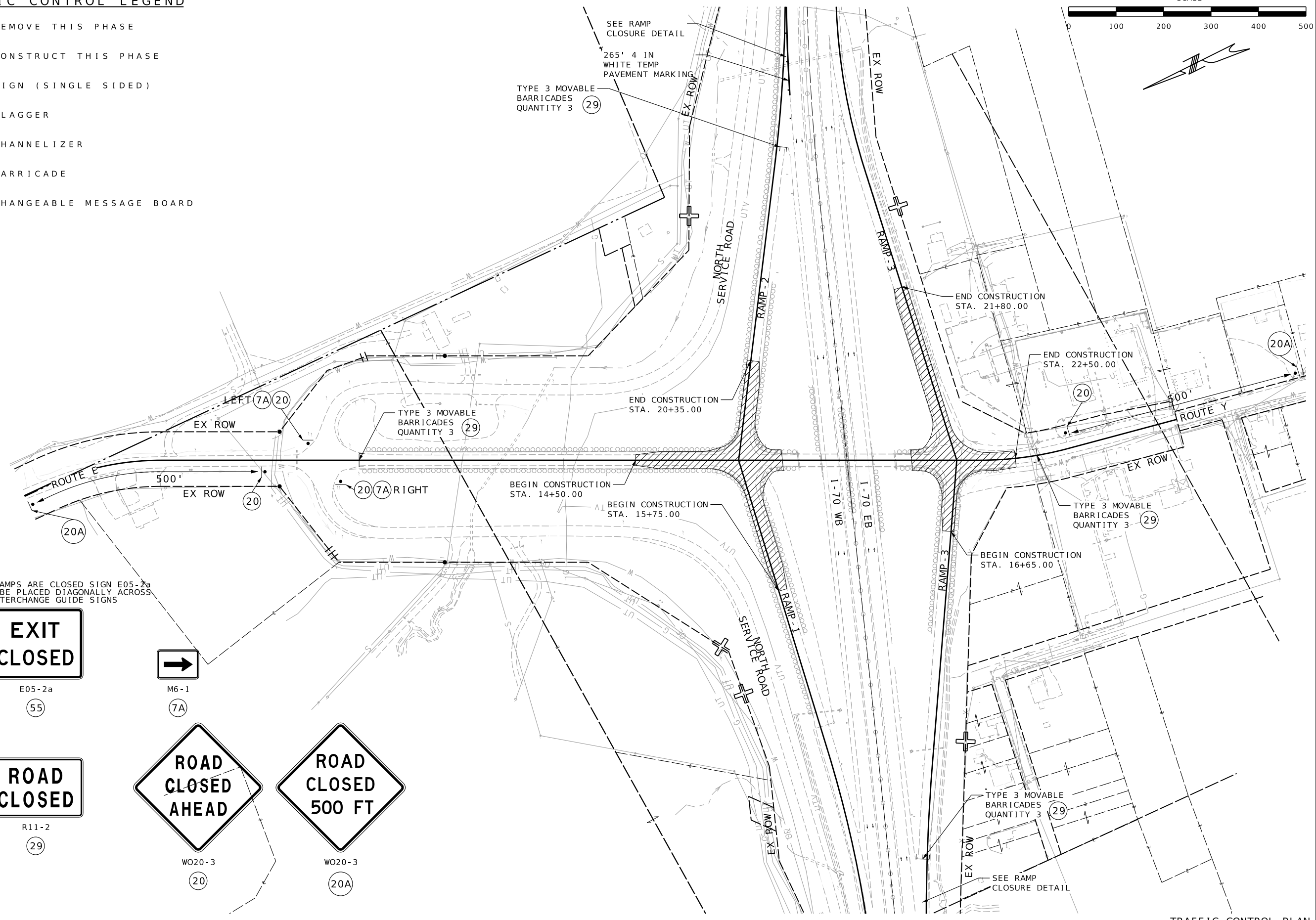
R11-2
29



W020-3
20



W020-3
20A



DATE PREPARED	
26-NOV-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	25
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

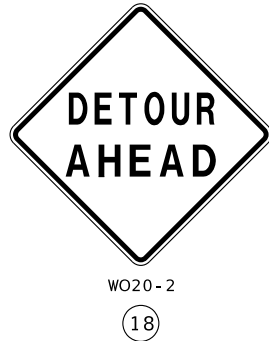
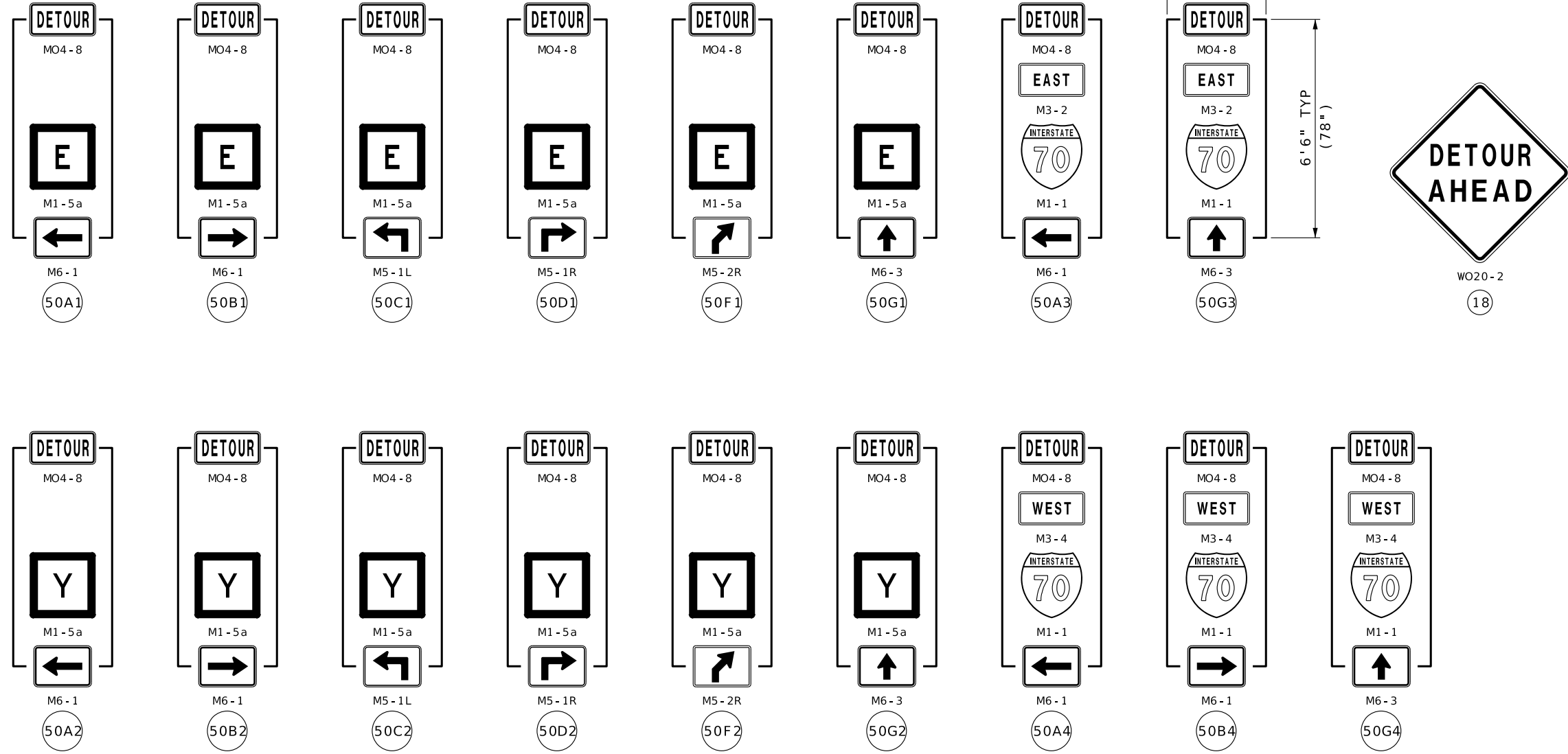
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TRAFFIC CONTROL PLAN PHASE 3

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



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▬ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- ▬ CHANGEABLE MESSAGE BOARD



12/09/2024 6:02:46 PM
Andrew W. Ledbetter - Civil
MO PE - 2005022126

DATE PREPARED
9-DEC-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	26

COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

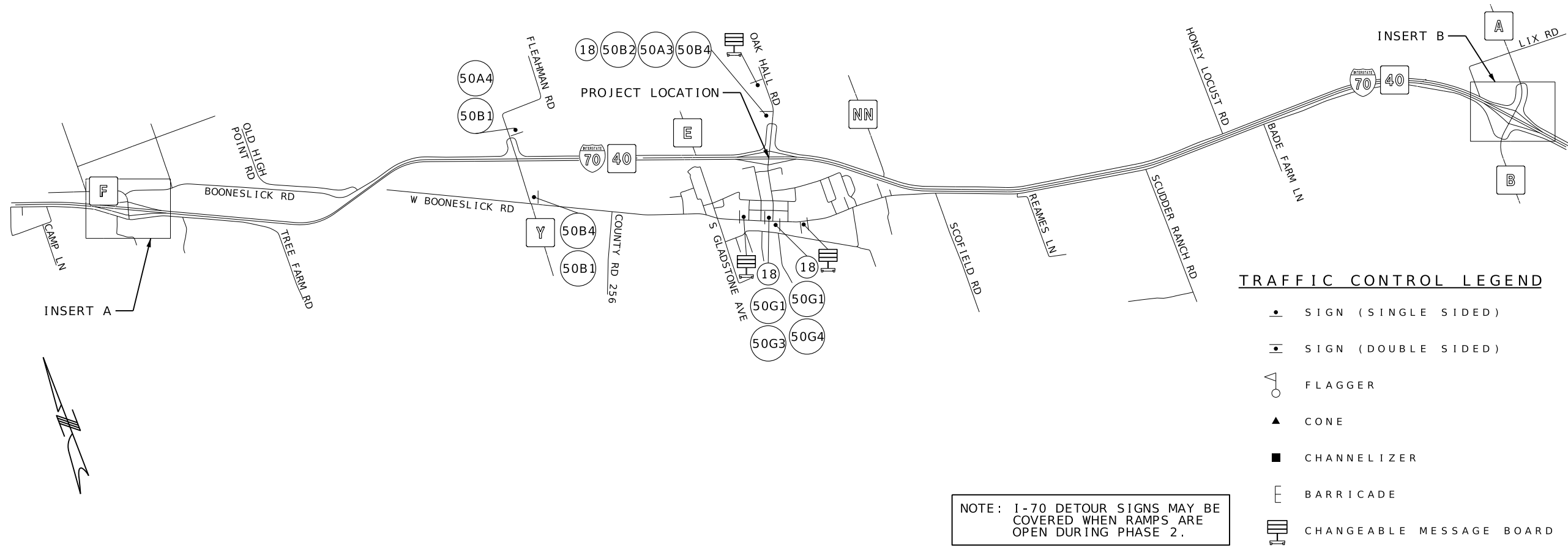
DATE	DESCRIPTION

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

Jacobs
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ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TEMPORARY TRAFFIC CONTROL
DETOUR SIGNS

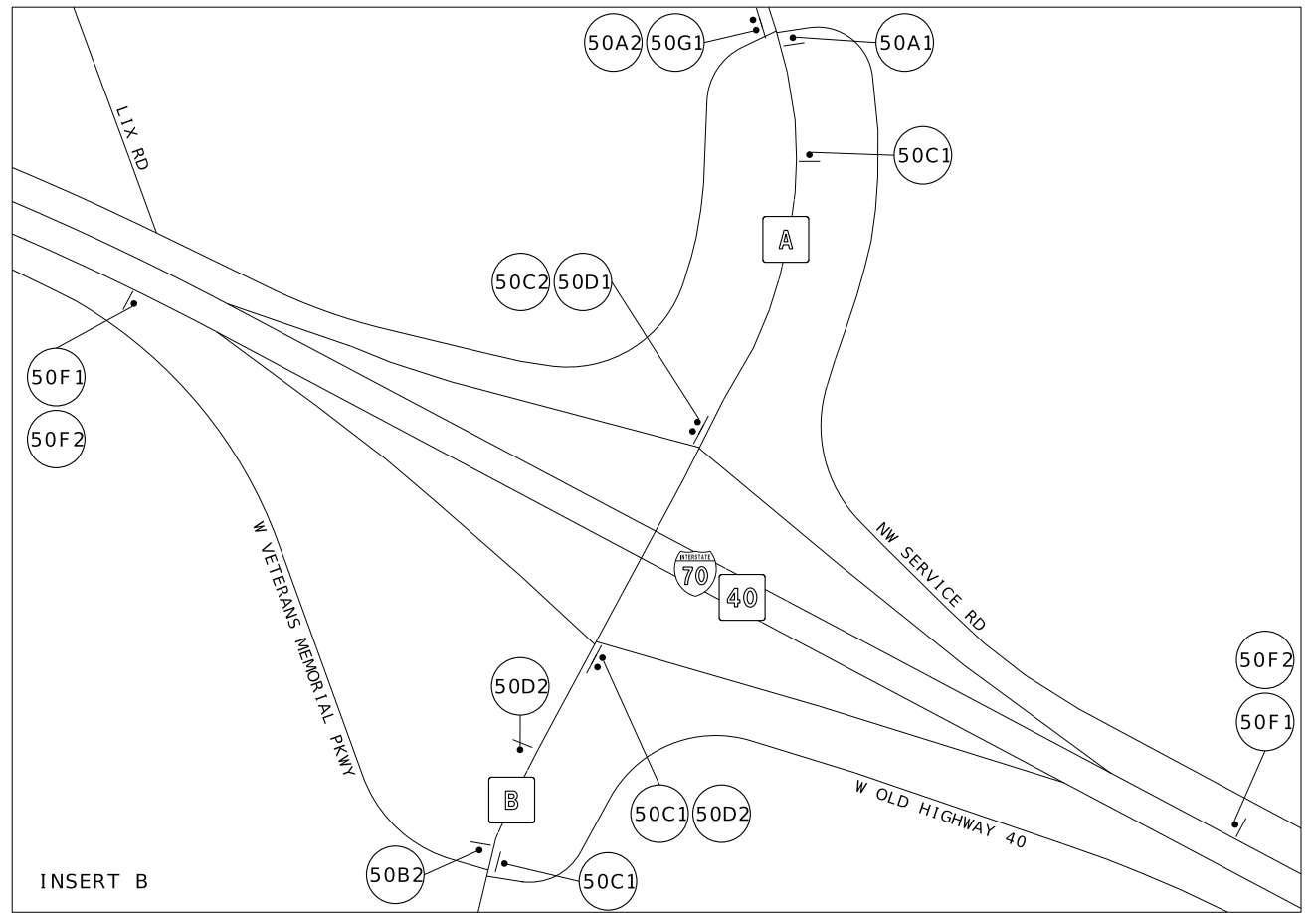
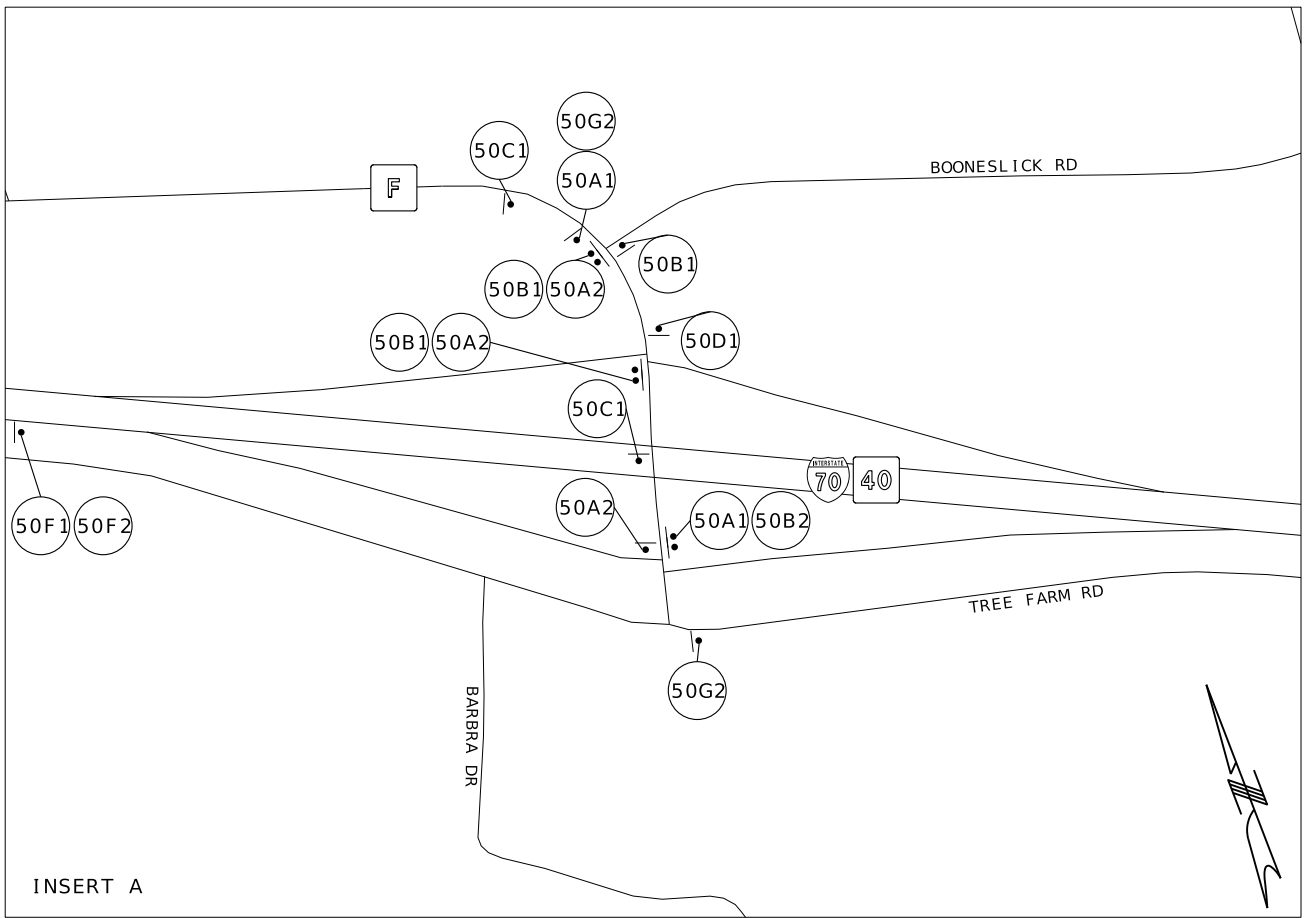
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▬ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- ▬ CHANGEABLE MESSAGE BOARD

NOTE: I-70 DETOUR SIGNS MAY BE COVERED WHEN RAMPS ARE OPEN DURING PHASE 2.



TEMPORARY TRAFFIC CONTROL DETOUR ROUTE PHASE 1/2

STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER
 Richard S. Baum
 11/26/2024 4:53:44 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED		26-NOV-2024	
ROUTE	STATE	MO	
DISTRICT	SHEET NO.	NE	27
COUNTY			
MONTGOMERY			
JOB NO.			
J2S3439			
CONTRACT ID.			

PROJECT NO.
BRIDGE NO.

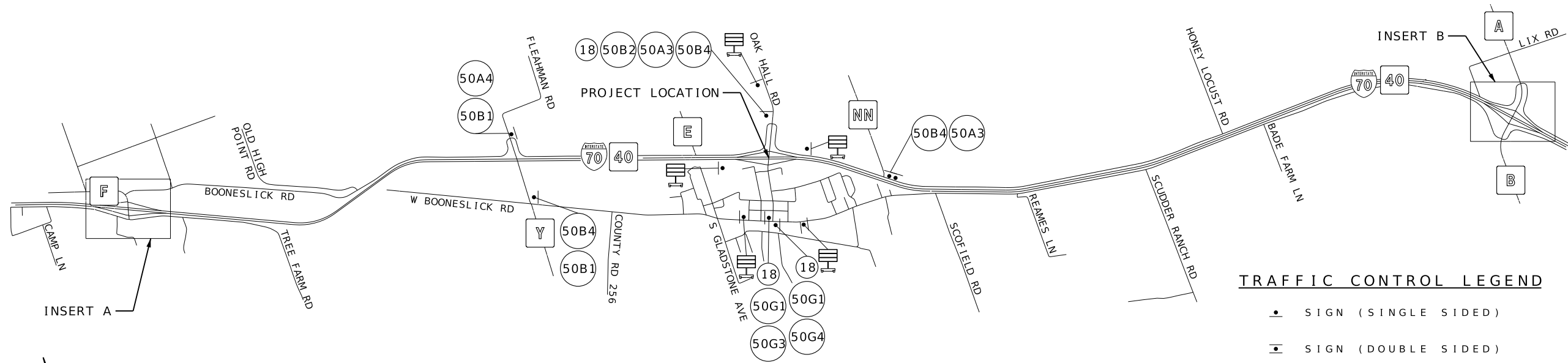
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

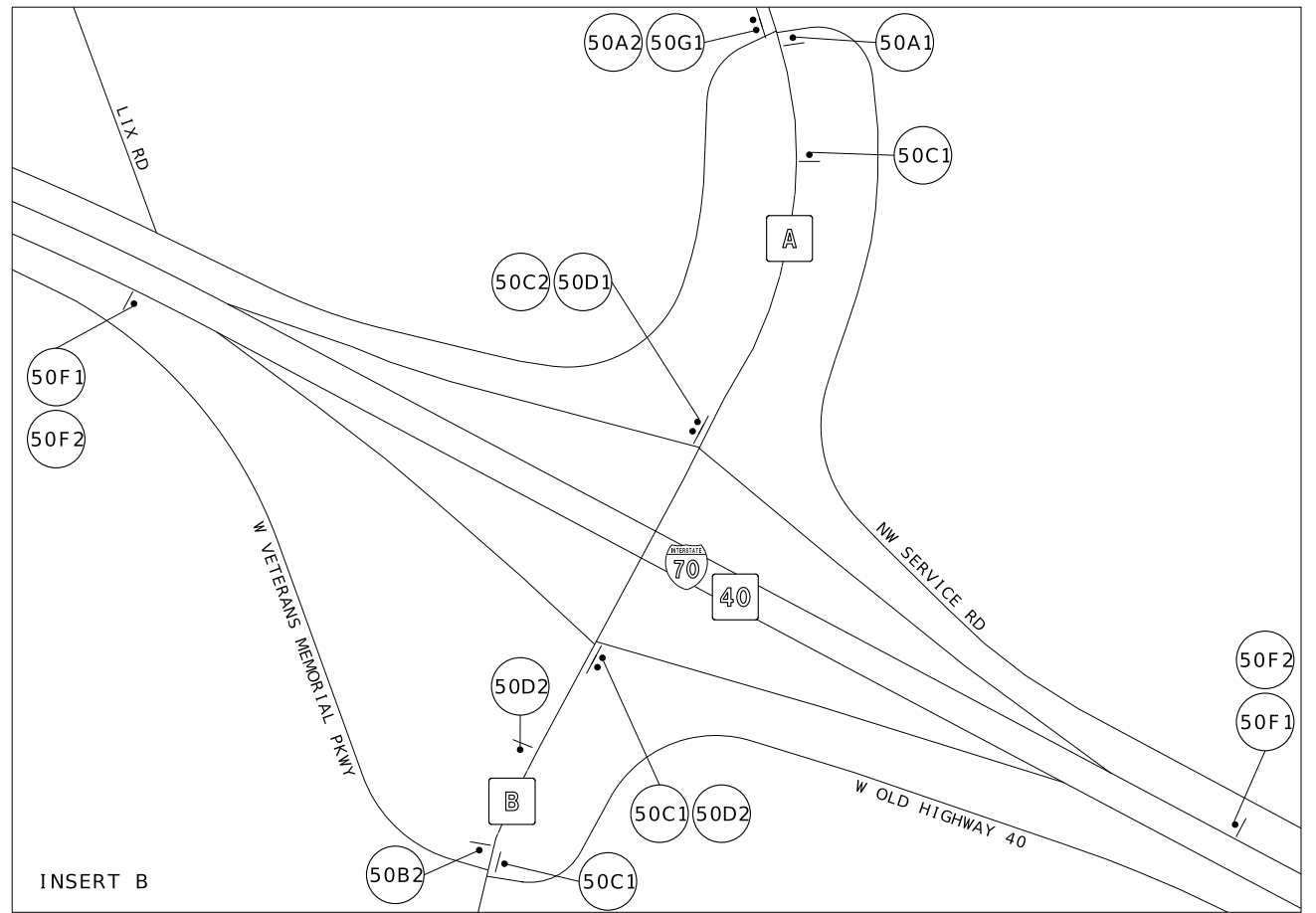
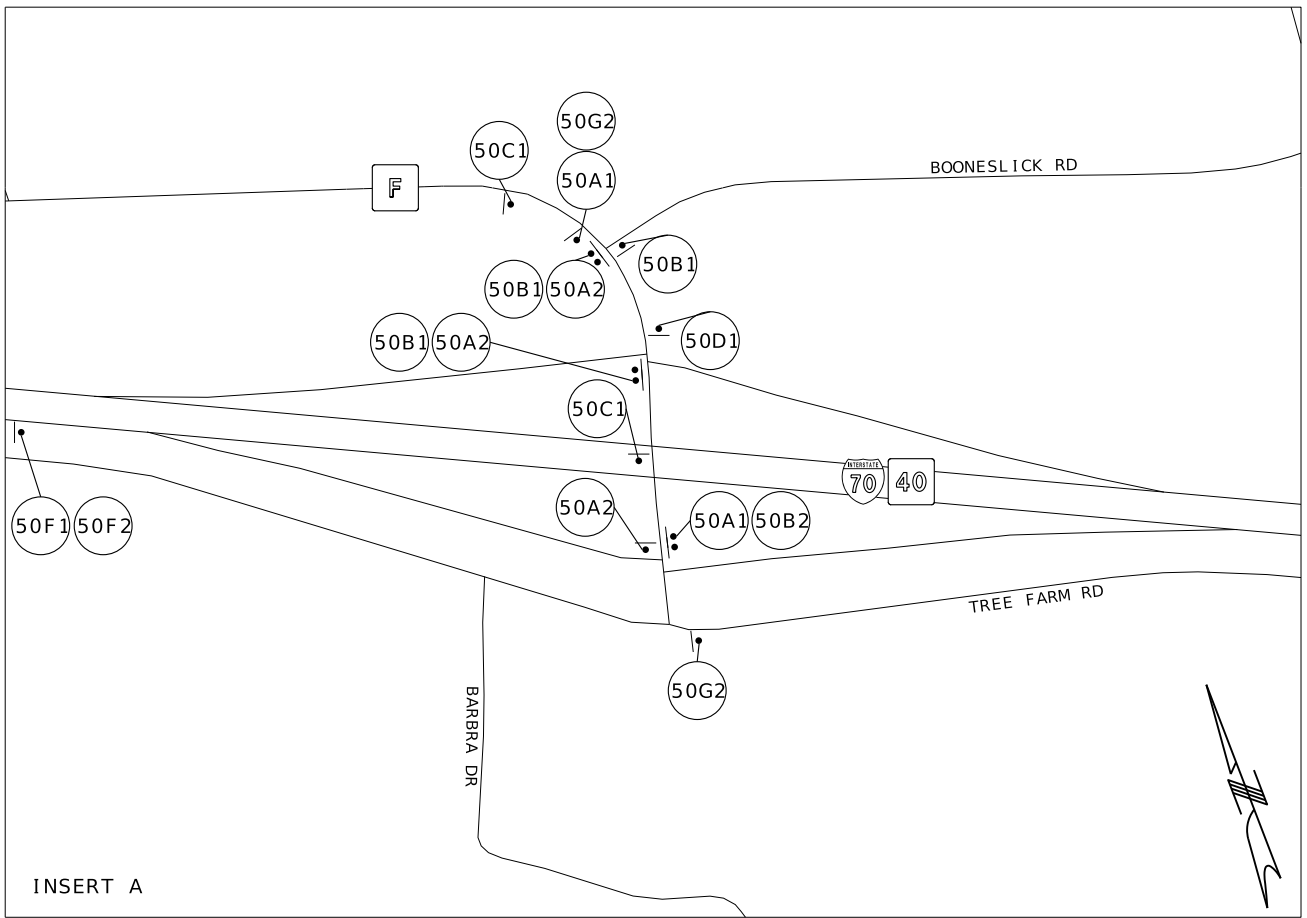
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◡ SIGN (DOUBLE SIDED)
- ◑ FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- ◻ CHANGEABLE MESSAGE BOARD



TEMPORARY TRAFFIC CONTROL DETOUR ROUTE
PHASE 3

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
11/26/2024 4:53:44 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 28
COUNTY MONTGOMERY	
JOB NO. J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

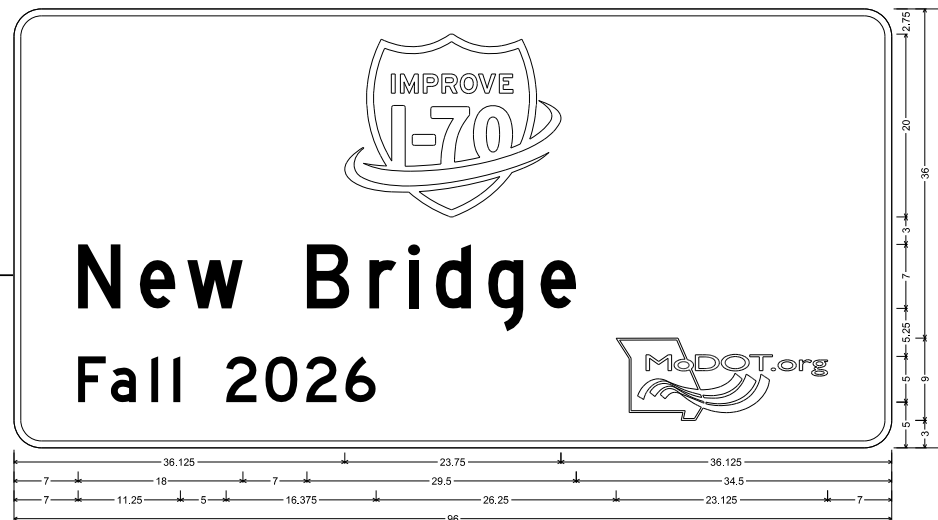
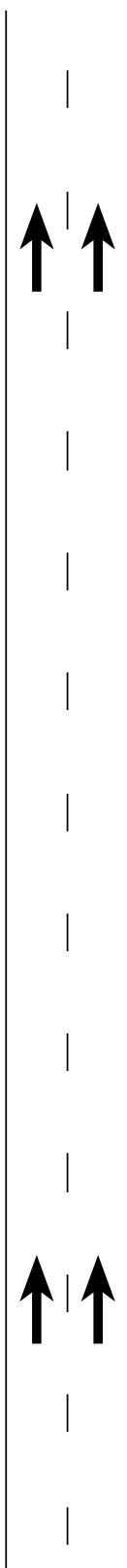
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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

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

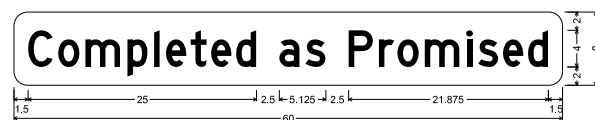
MULTI-LANE DIVIDED
BEGIN/END OF PROJECT SIGNING
(FOR USE ON ALL PROJECTS)



CONST-5-96 SH-FLAT SHEET;
3.000" Radius, 0.750" Border, White on, Blue;
Improve I-70: "New Bridge", D: "Fall 2026", D:
Table of letter and object lefts

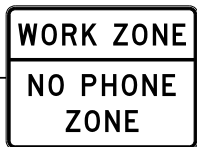
36.125	
N	e
7.000	13.750
F	a
7.000	10.625
15.000	17.375
23.250	27.500
32.000	38.250
43.250	51.875
46.125	57.625
51.875	
57.625	

CONST-5-96
POINT OF PRESENCE



CONST-5P-80 SH-FLAT SHEET FLUORESCENT; 1.500" Radius, No border, Yellow;
[Completed as Promised] Black D 65% spacing;
Table of letter and object lefts

60	
C	o
1.500	4.875
P	r
36.625	39.875
41.875	44.875
49.500	50.750
53.500	56.250
56.250	



(59)

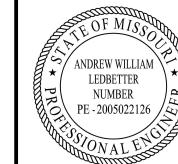
NOTES:
OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

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

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

(2) SIGN CONST-7-72 OR CONST 7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR ROAD WORK AHEAD SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48



12/09/2024 6:03:20 PM
Andrew W. Ledbetter - Civil
MO PE - 2005022126

DATE PREPARED
9-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 29

COUNTY
MONTGOMERY

JOB NO.
J2S3439

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)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TEMPORARY TRAFFIC CONTROL
BEGIN/END

SEE FIGURE 2

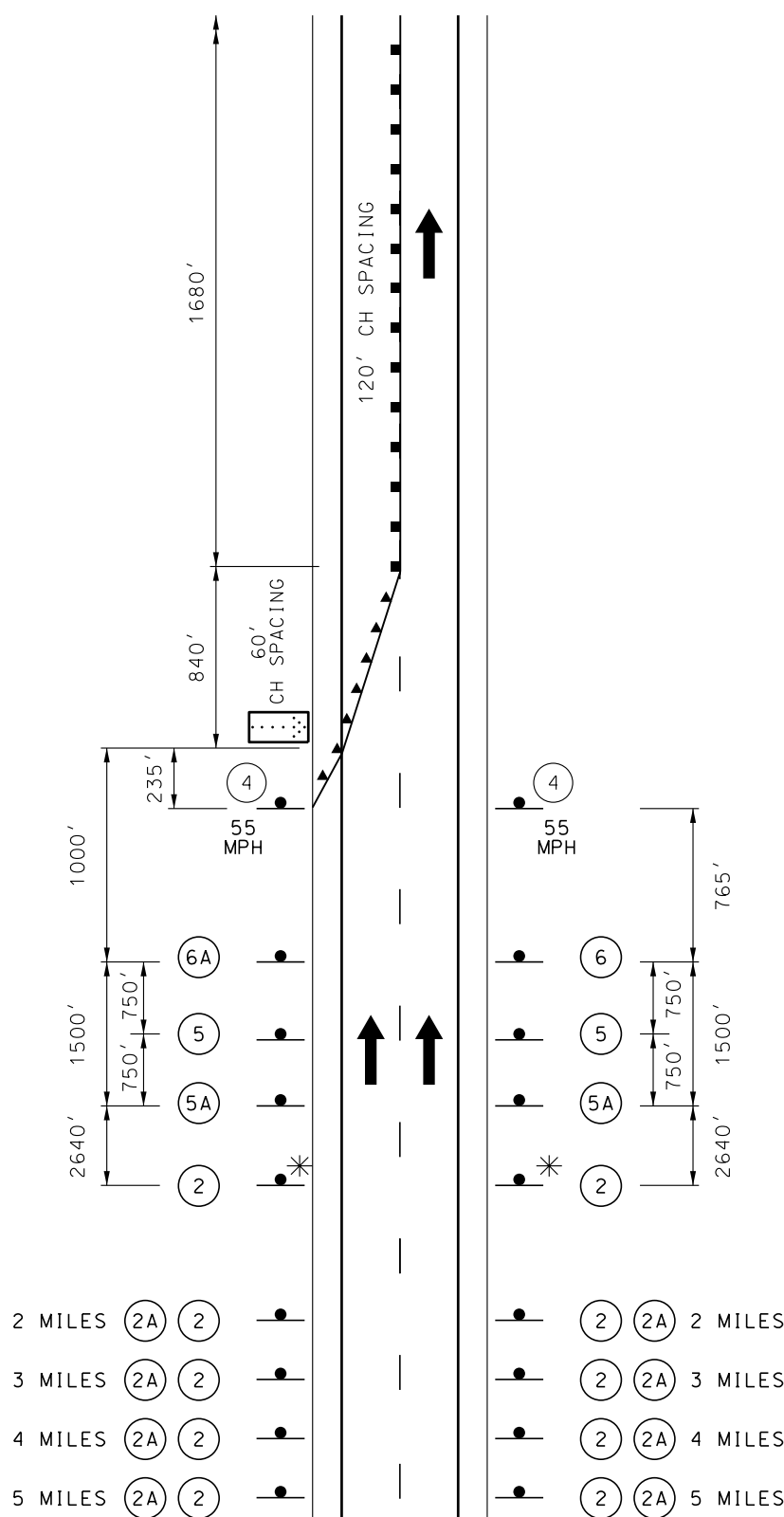


FIGURE 1
EAST / WEST BOUND
I-70
(NOT TO SCALE)

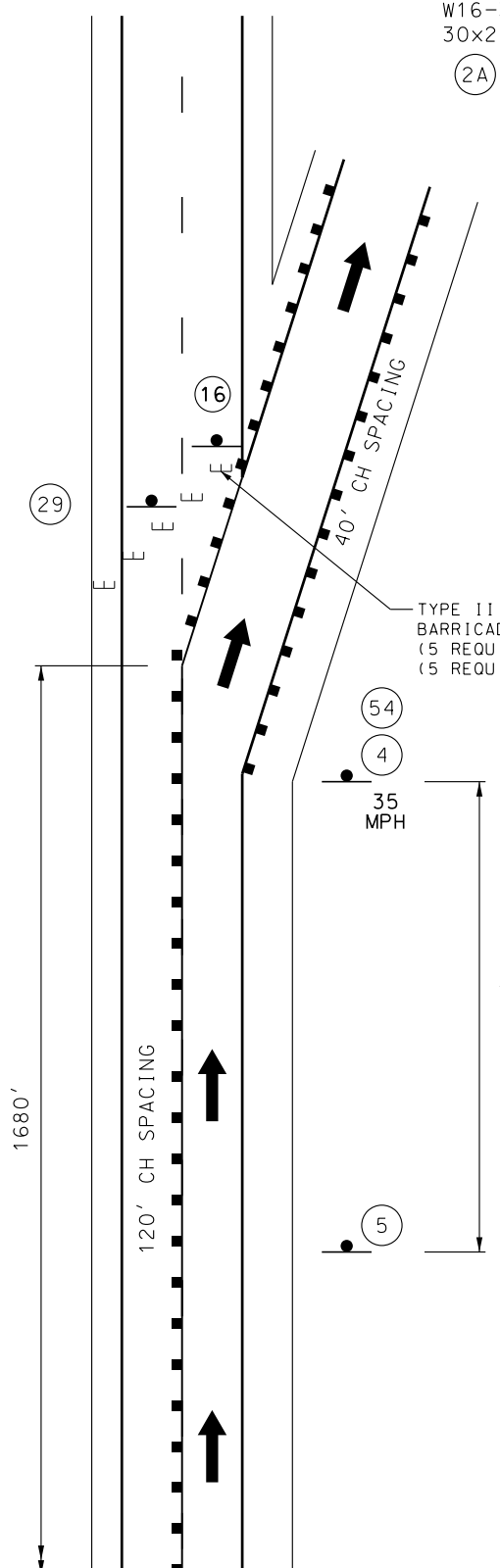
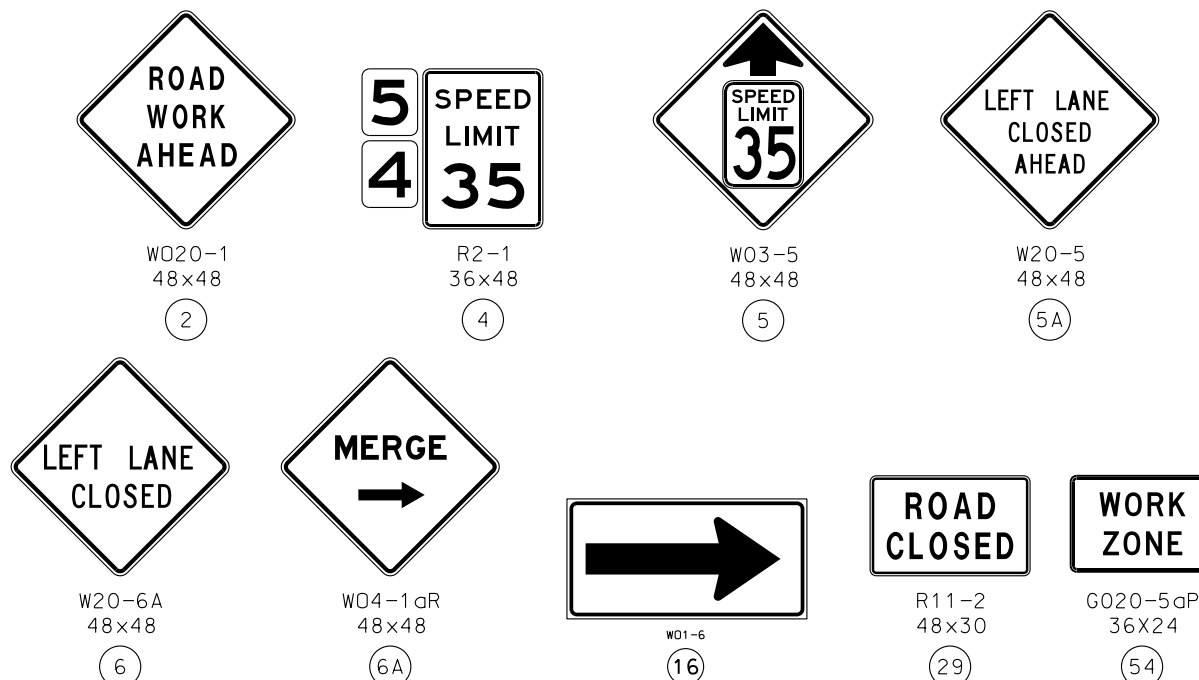


FIGURE 2
EAST / WEST BOUND
I-70
(NOT TO SCALE)

MILES
W16-3
30x24
(2A)



NOTES:

- DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS ARE TO BE USED AT TAPER LOCATIONS.
- FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.
- REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
- THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.
- ADVANCE ROAD WORK AHEAD SIGNS SHALL BE PLACED AS NEEDED IN ADVANCE OF I-70 QUEUE.

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

TEMPORARY TRAFFIC CONTROL
FULL CLOSURE INTERSTATE

STATE OF MISSOURI
RICHARD S. BAUM
PROFESSIONAL ENGINEER
NUMBER E-24320
Richard S. Baum
11/26/2024 4:53:44 PM
MO PE E-24320

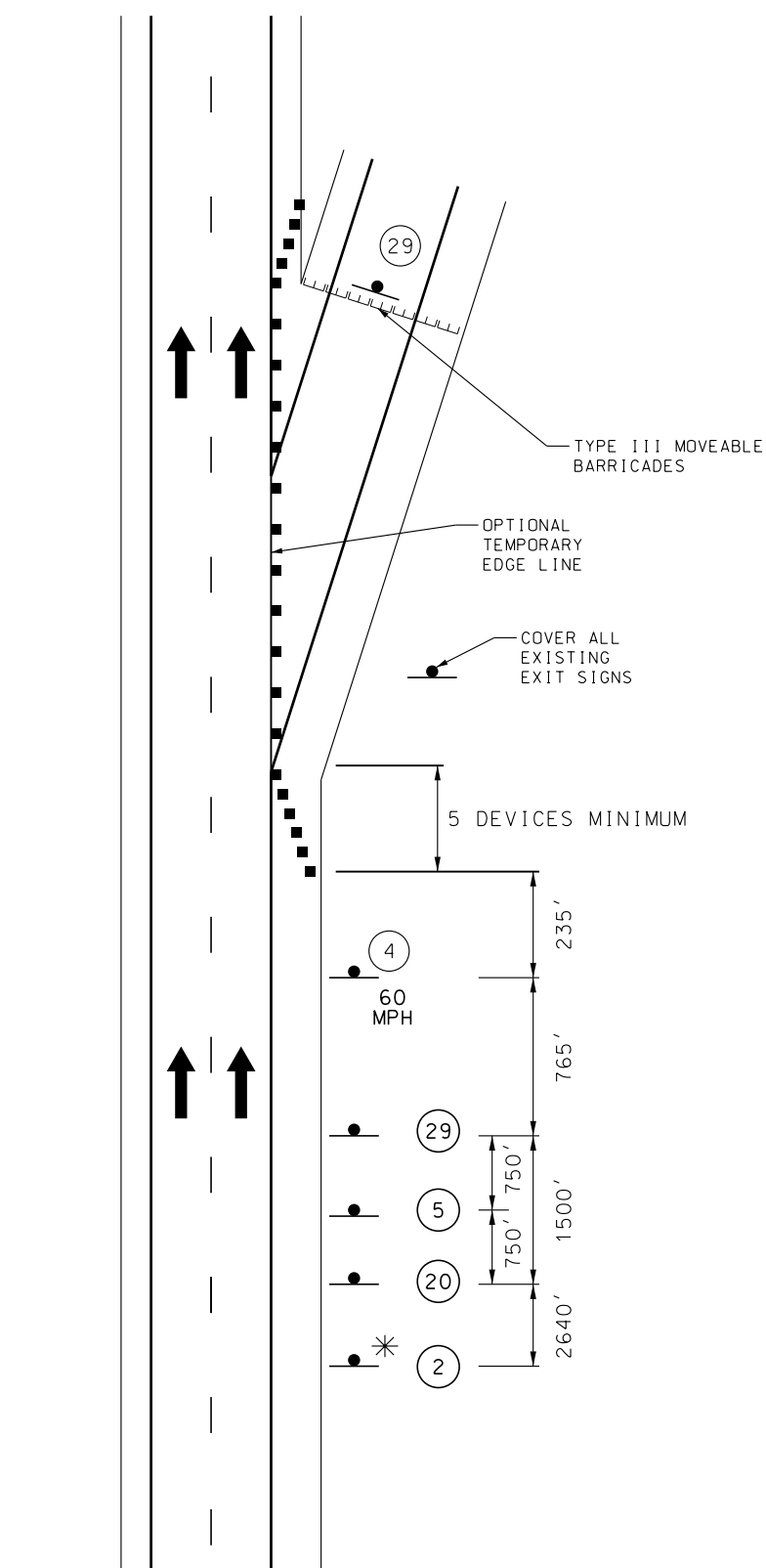
DATE PREPARED
26-NOV-2024
ROUTE STATE
E MO
DISTRICT SHEET NO.
NE 30
COUNTY
MONTGOMERY
JOB NO.
J253439
CONTRACT ID.

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)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



W020-1
48x48
2



R2-1
36x48
4



W03-5
48x48
5



W20-3
48x48
20



R11-2
48x30
29



EXIT 183
RTE E Y
CLOSED

CHANGEABLE MESSAGE SIGN
TO BE LOCATED BY ENGINEER

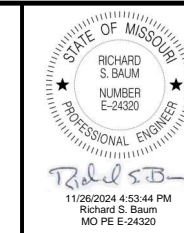
DETOUR
AT
EXIT 179

MESSAGES TO BE DISPLAYED ON VARIOUS CMS BOARDS AS FOLLOWS:

- EXIT 188 (PENDLETON) - WESTBOUND
 - EXIT 183 / RTE E Y / CLOSED
 - DETOUR / AT / EXIT 188
- EXIT 183 (JONESBURG) - EASTBOUND
 - EXIT 183 / RTE E Y / CLOSED
 - DETOUR / AT / EXIT 179
- EXIT 183 (JONESBURG) - WESTBOUND
 - EXIT 183 / RTE E Y / CLOSED
 - DETOUR / AT / EXIT 188
- EXIT 179 (HIGH HILL) - EASTBOUND
 - EXIT XXX / RTE E Y / CLOSED
 - DETOUR / AT / EXIT 179

- NOTES:
- SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
 - SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
 - TEMPORARY PAVEMENT MARKING OPTIONAL WITH SHORT TERM CLOSURES.
 - FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING DEVICES.
 - REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
 - DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS ARE TO BE USED AT TAPER LOCATIONS.
 - FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.
 - THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.

TEMPORARY TRAFFIC CONTROL
RAMP CLOSURE



DATE PREPARED
26-NOV-2024

ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 31

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.
BRIDGE NO.

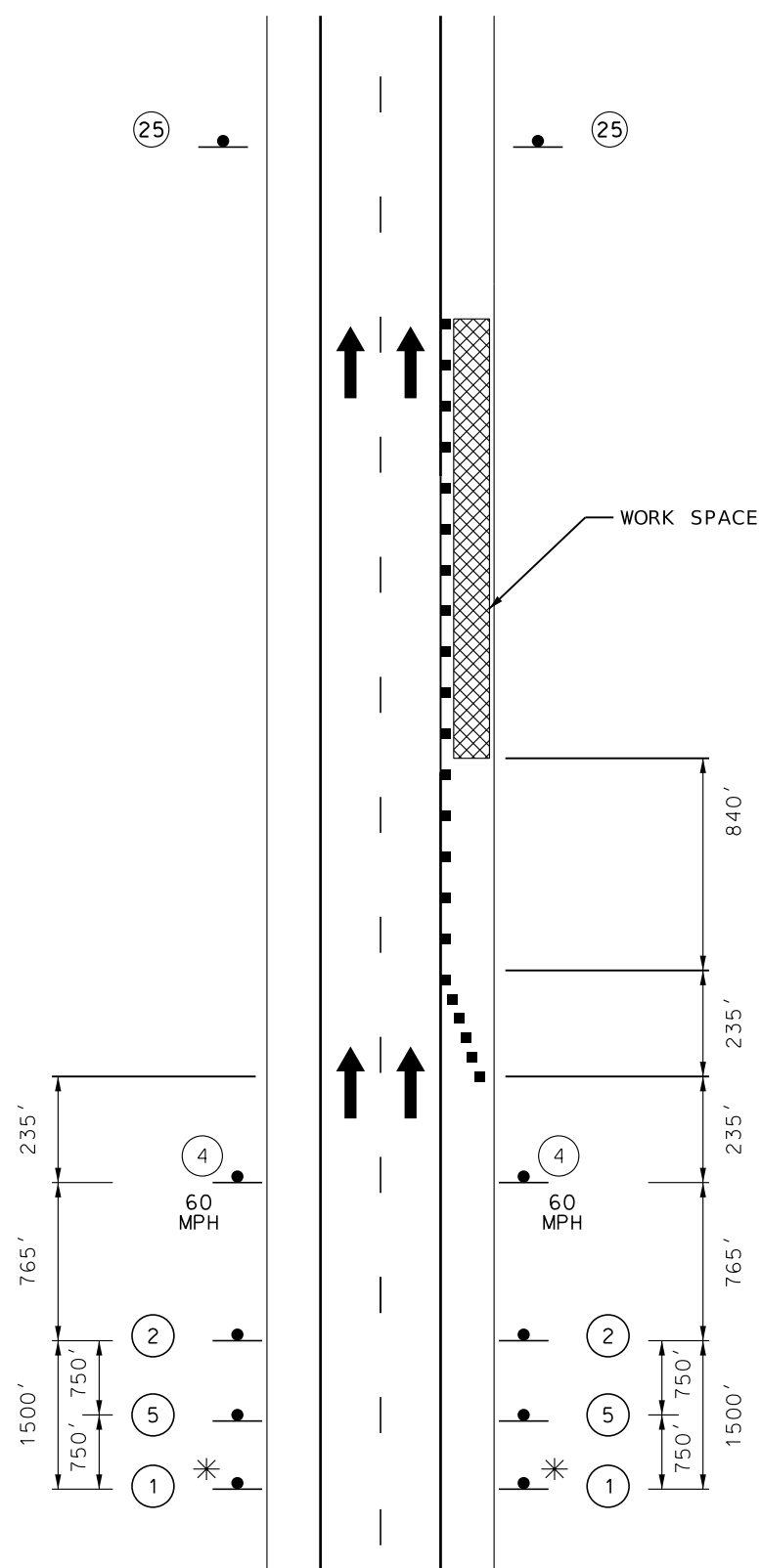
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

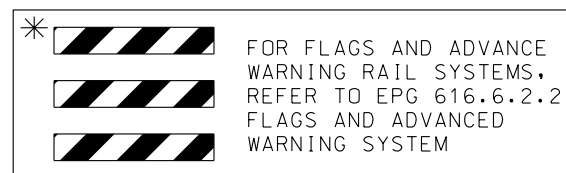
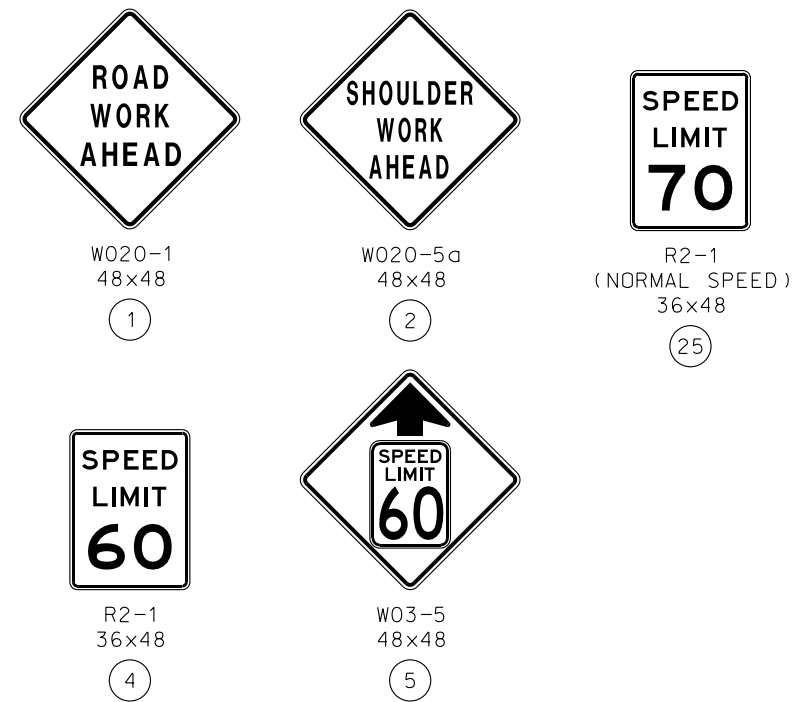
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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



SHOULDER WORK ON DIVIDED HIGHWAY

(NOT TO SCALE)



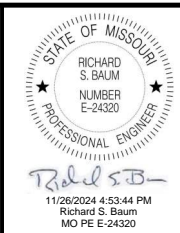
NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

ROAD WORK AHEAD REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD IS ALREADY USED.

TEMPORARY TRAFFIC CONTROL
SHOULDER CLOSURE



DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 32
COUNTY MONTGOMERY	
JOB NO. J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

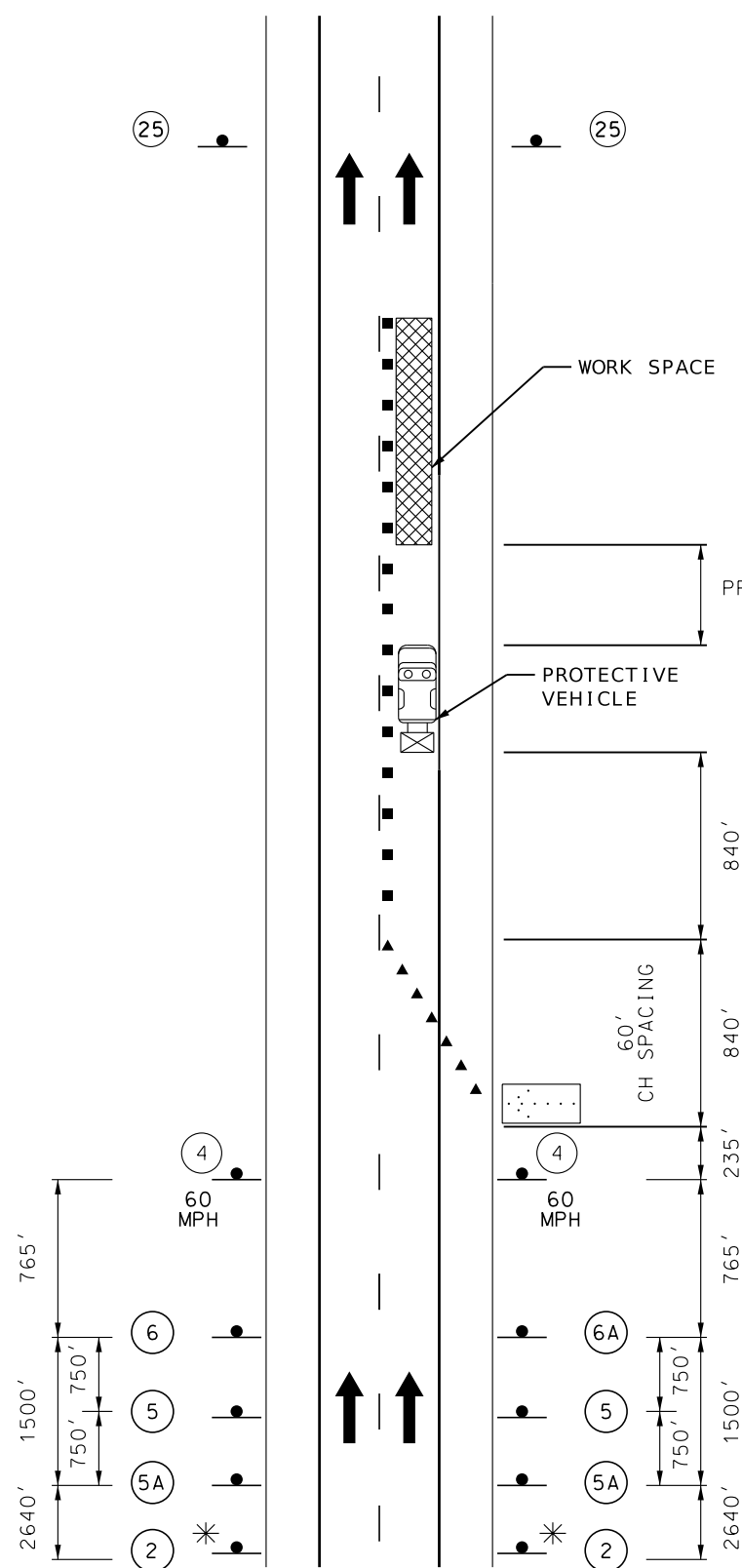
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

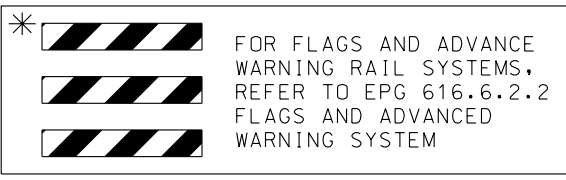
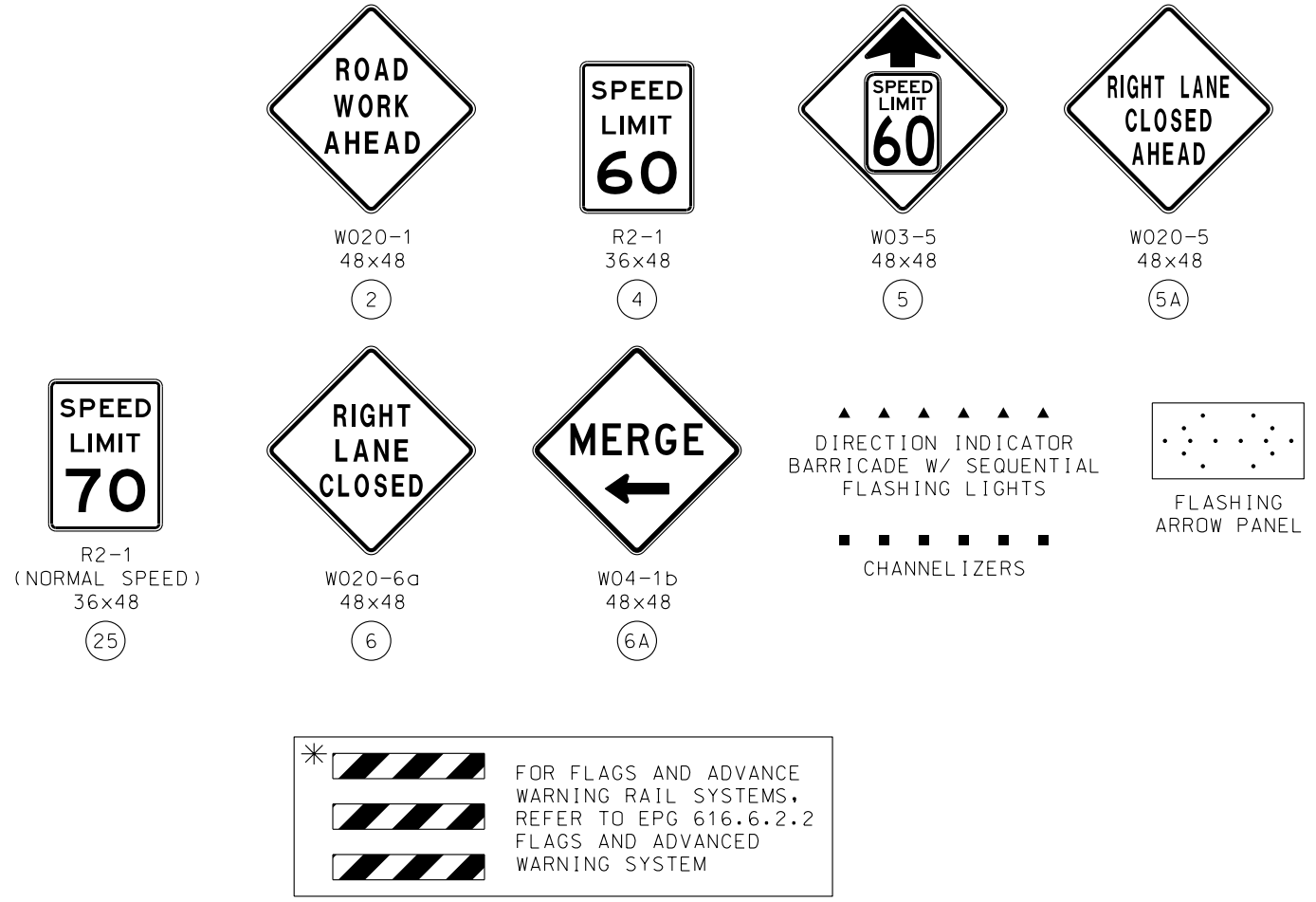
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LANE WORK ON DIVIDED HIGHWAY

(NOT TO SCALE)



NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

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

DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS ARE TO BE USED AT TAPER LOCATIONS.

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

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

THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER
E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
11/26/2024 4:53:44 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
26-NOV-2024

ROUTE
E STATE
MO

DISTRICT
NE SHEET NO.
33

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

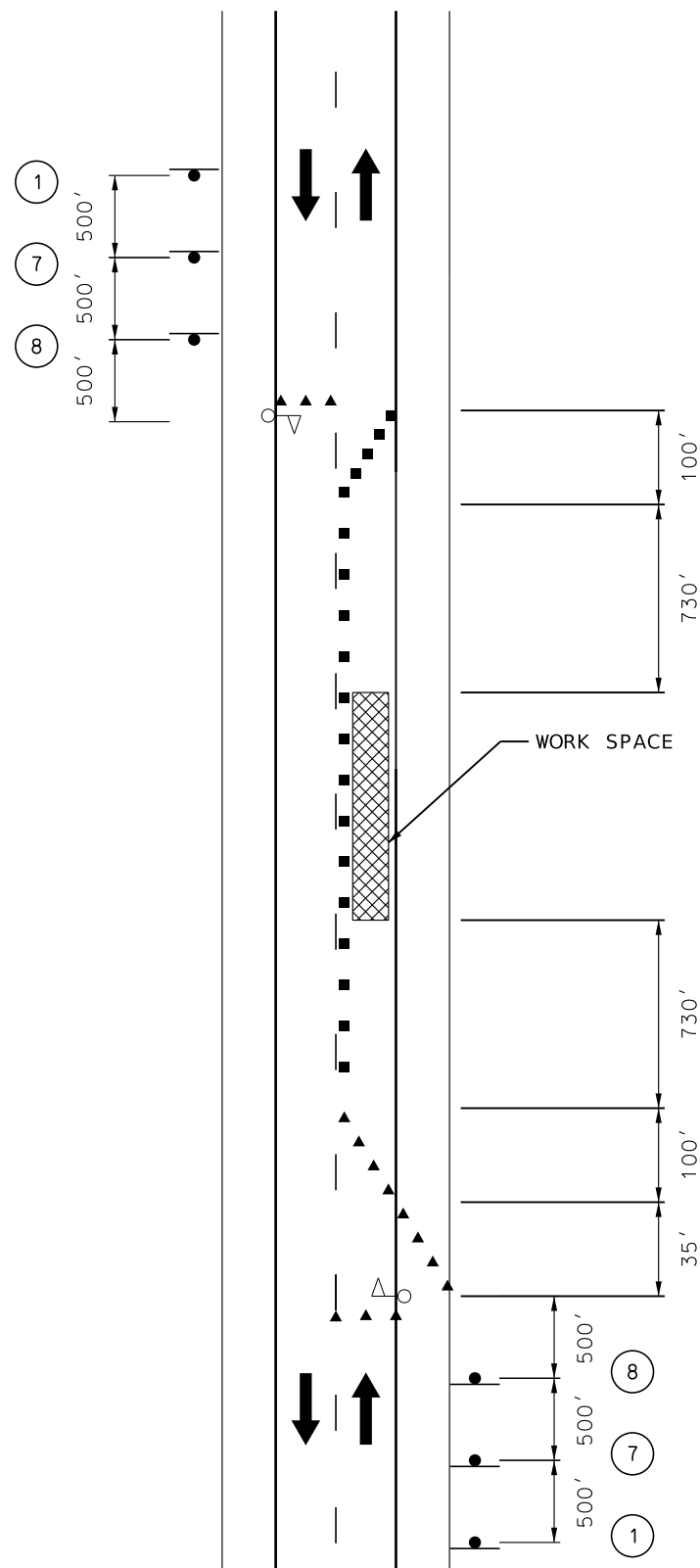
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1001 HIGHLANDS PLAZA DRIVE
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CERTIFICATE OF AUTHORITY #00704

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



W020-1
48x48

1



W020-7
48x48

8






W020-4
48x48

7

▲ ▲ ▲ ▲ ▲
DIRECTION INDICATOR
BARRICADE W/ SEQUENTIAL
FLASHING LIGHTS

■ ■ ■ ■ ■
CHANNELIZERS

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

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

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

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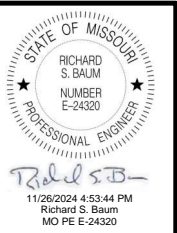
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

THE REDUCED SPEED LIMIT AND THE NORMAL SPEED LIMIT WILL VARY DEPENDING ON THE LOCATION OF THE TRAFFIC CONTROL SETUP.

LANE WORK ON UNDIVIDED HIGHWAY WITH FLAGGERS

(NOT TO SCALE)

TEMPORARY TRAFFIC CONTROL
LANE CLOSURE WITH FLAGGERS



DATE PREPARED
26-NOV-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 34

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

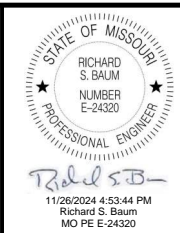
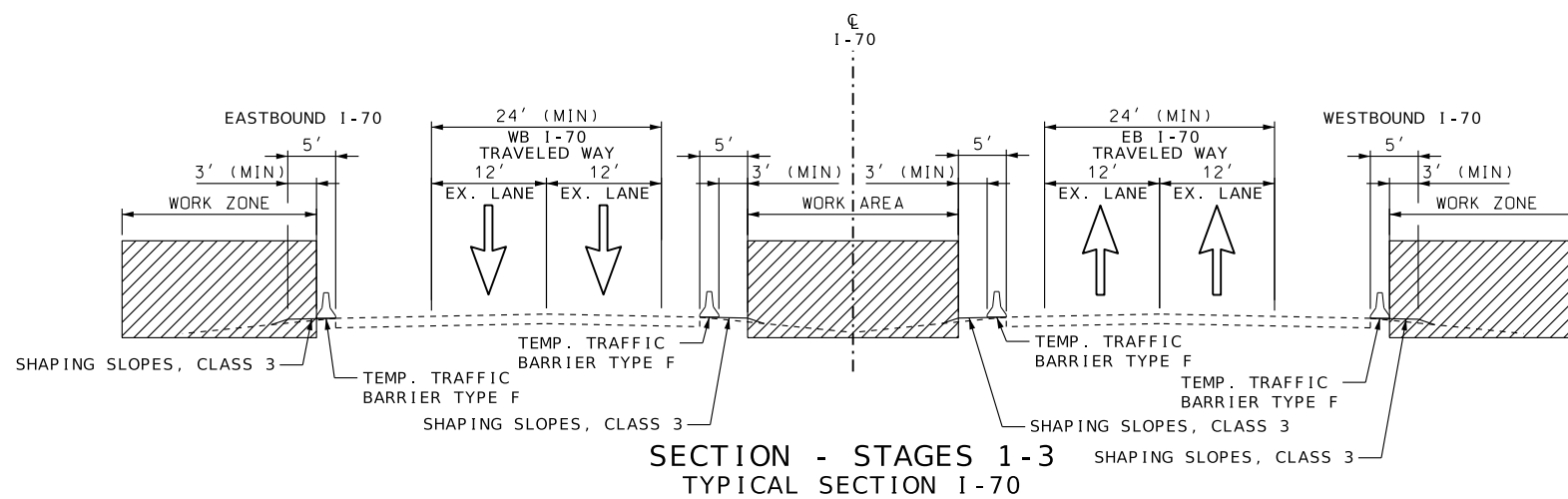
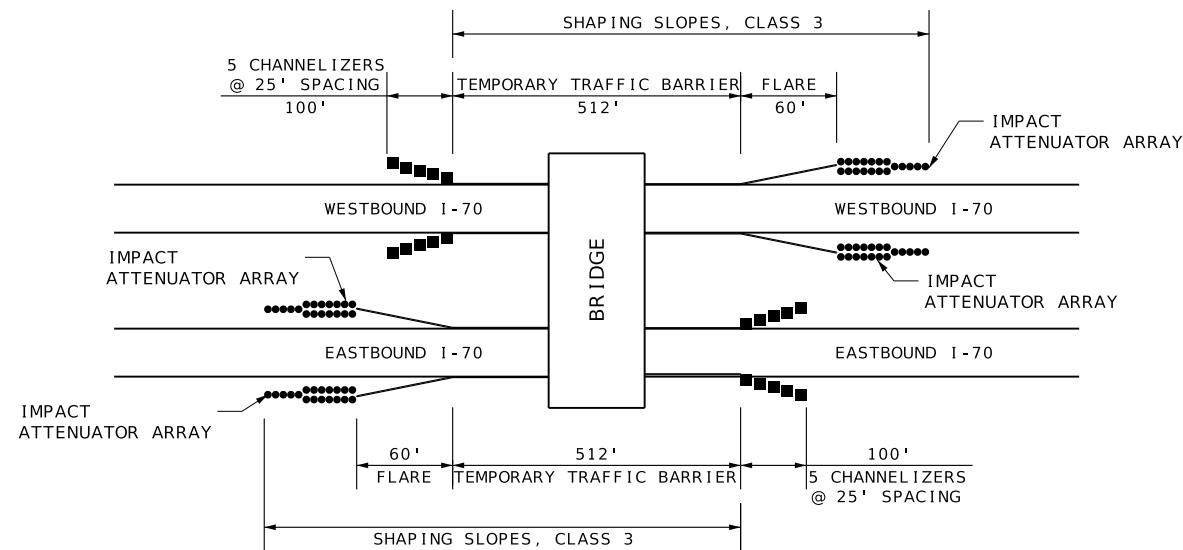
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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



JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



DATE PREPARED	
26-NOV-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	35
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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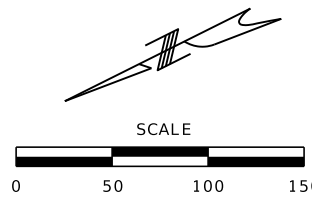
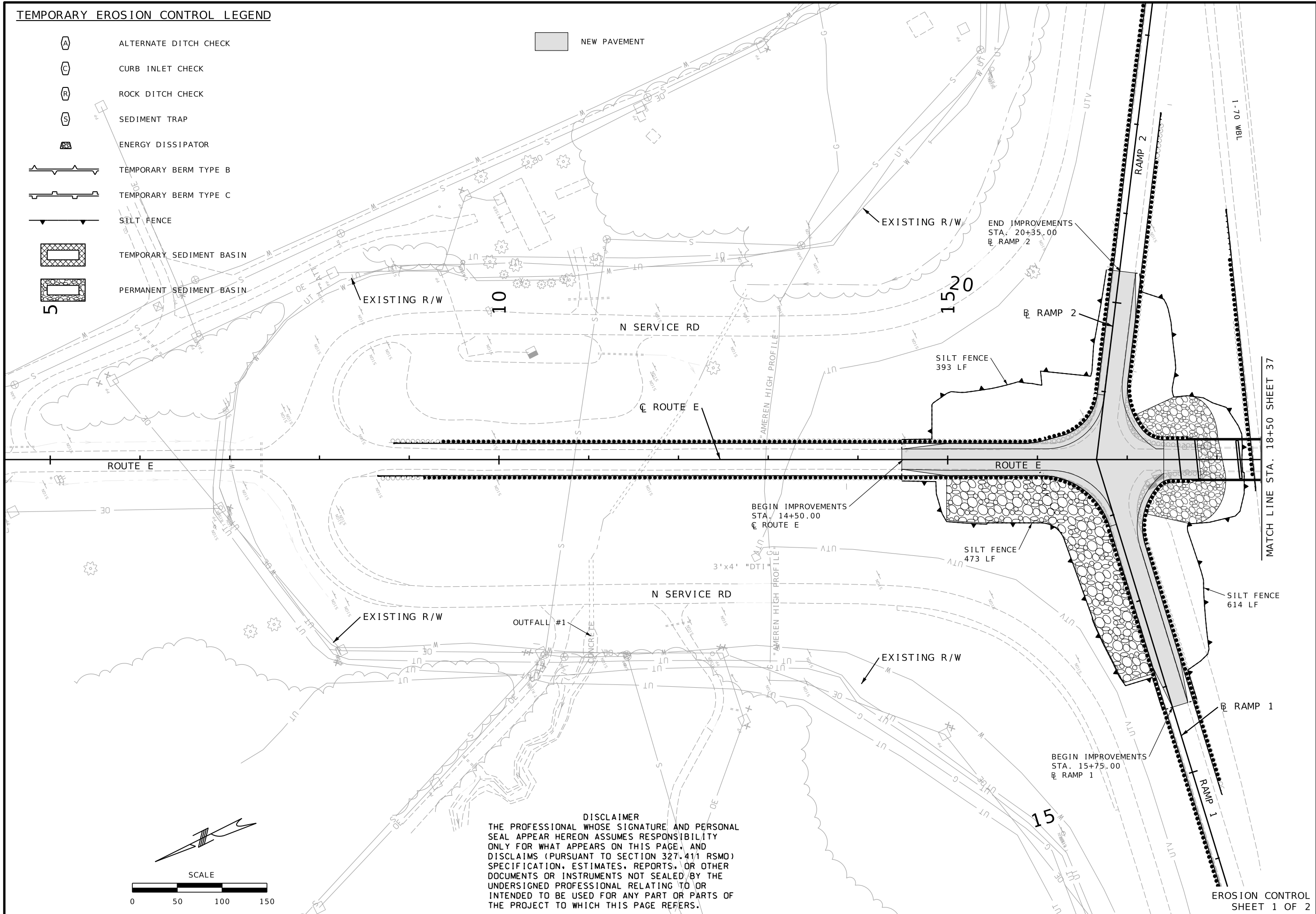
TEMPORARY TRAFFIC CONTROL
FULL CLOSURE INTERSTATE

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

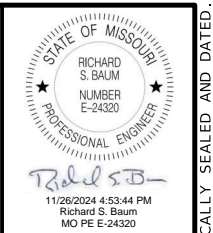
TEMPORARY EROSION CONTROL LEGEND

- 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

NEW PAVEMENT



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DATE PREPARED		26 - NOV - 2024	
ROUTE	E	STATE	MO
DISTRICT	NE	SHEET NO.	36
COUNTY			
MONTGOMERY			
JOB NO.			
J2S3439			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

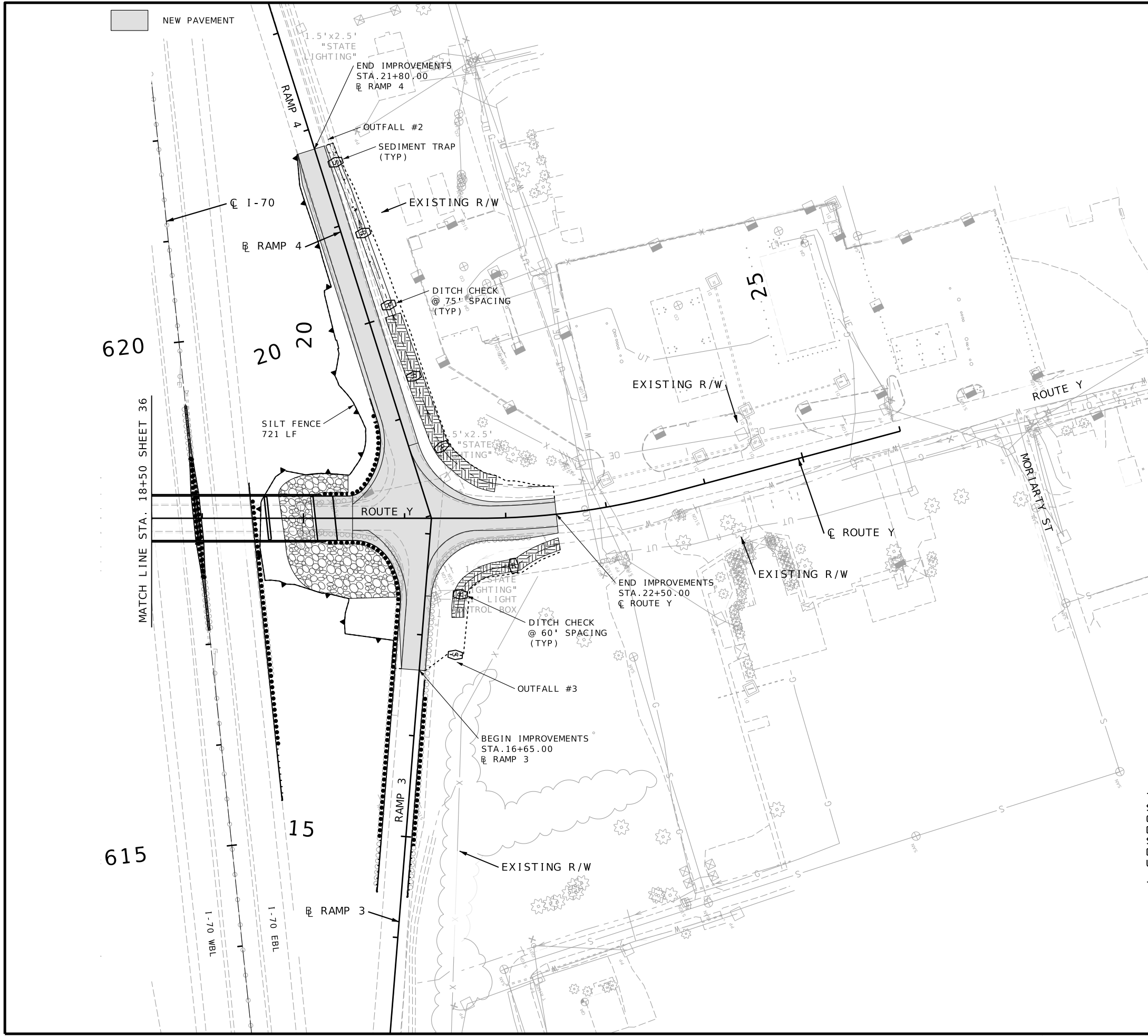
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 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

EROSION CONTROL SHEET 1 OF 2

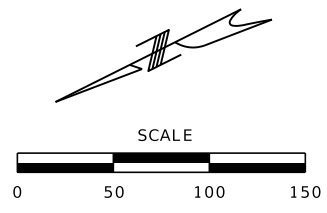
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



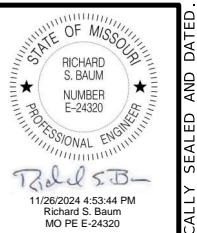
TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- (E) ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN

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EROSION CONTROL SHEET 2 OF 2



DATE PREPARED		26-NOV-2024	
ROUTE	STATE	E	MO
DISTRICT	SHEET NO.	NE	37
COUNTY			
MONTGOMERY			
JOB NO.			
J2S3439			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

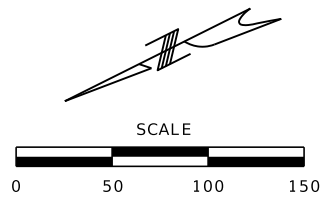
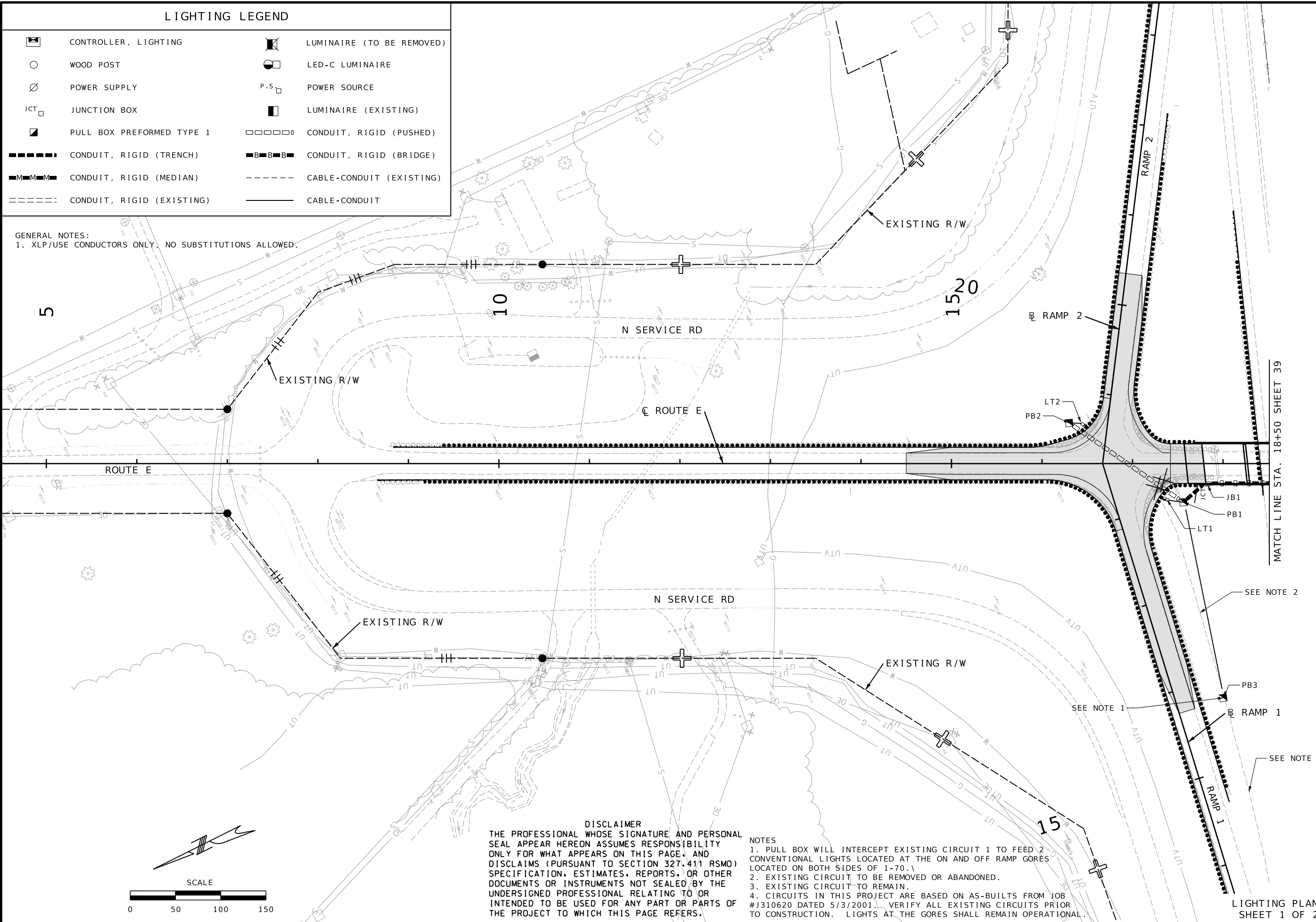
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LIGHTING LEGEND

	CONTROLLER, LIGHTING		LUMINAIRE (TO BE REMOVED)
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		P.S. POWER SOURCE
	JUNCTION BOX		LUMINAIRE (EXISTING)
	PULL BOX PREFORMED TYPE 1		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (MEDIAN)		CABLE-CONDUIT (EXISTING)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT

GENERAL NOTES:
1. XLP/USE CONDUCTORS ONLY, NO SUBSTITUTIONS ALLOWED.



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- NOTES**
- PULL BOX WILL INTERCEPT EXISTING CIRCUIT 1 TO FEED 2 CONVENTIONAL LIGHTS LOCATED AT THE ON AND OFF RAMP GORES LOCATED ON BOTH SIDES OF 1-70.
 - EXISTING CIRCUIT TO BE REMOVED OR ABANDONED.
 - EXISTING CIRCUIT TO REMAIN.
 - CIRCUITS IN THIS PROJECT ARE BASED ON AS-BUILTS FROM JOB #J310620 DATED 5/3/2001. VERIFY ALL EXISTING CIRCUITS PRIOR TO CONSTRUCTION. LIGHTS AT THE GORES SHALL REMAIN OPERATIONAL.

LIGHTING PLAN SHEET 1 OF 2



11/18/2024 9:18:29 AM
Laura Anne Glaser - Electrical
MO PE-2010001771
DATE PREPARED
14-NOV-2024
ROUTE STATE
E MO
DISTRICT SHEET NO.
NE 38
COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

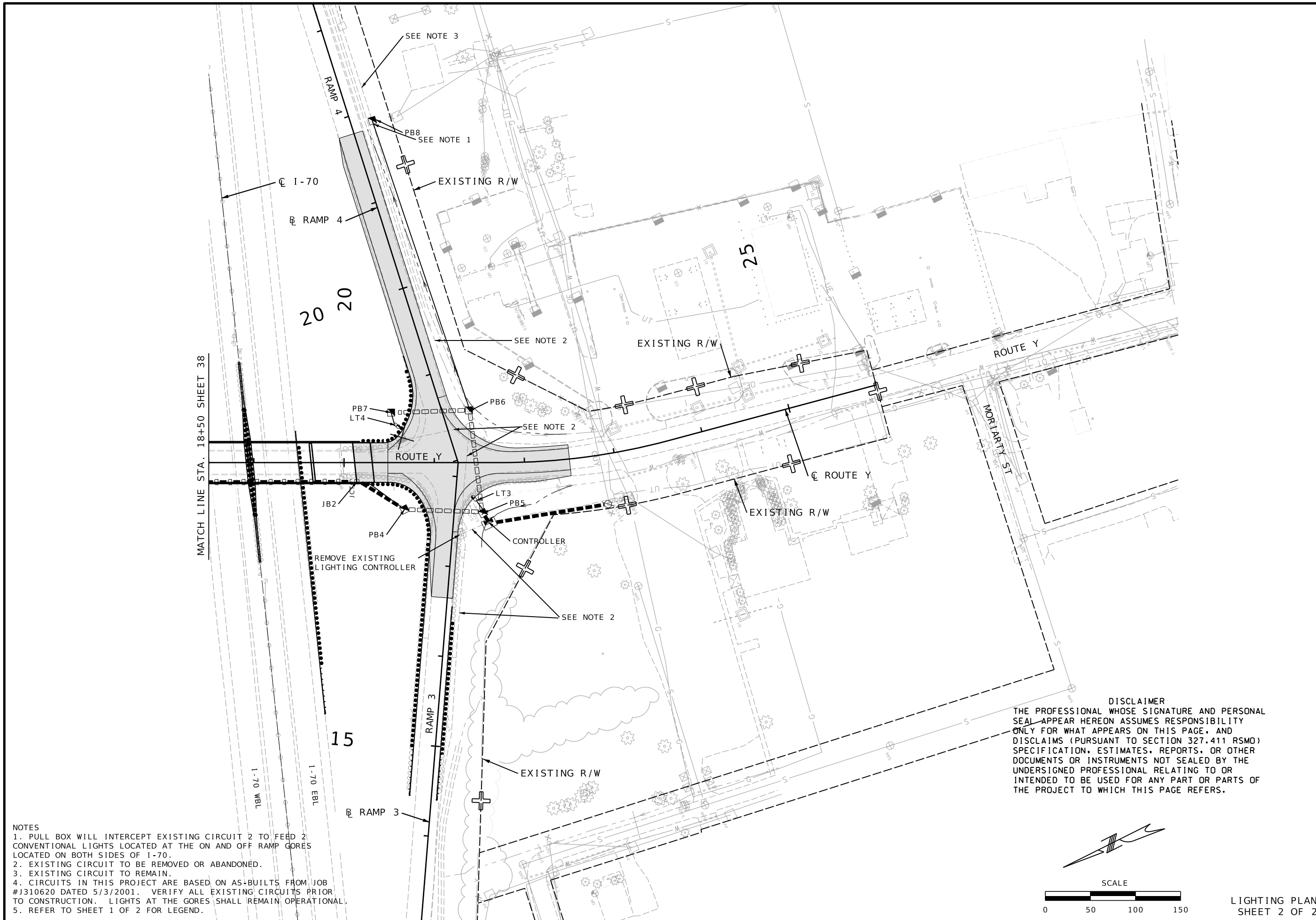
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

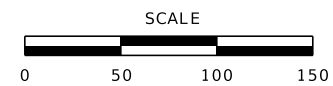
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 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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



- NOTES
1. PULL BOX WILL INTERCEPT EXISTING CIRCUIT 2 TO FEED 2 CONVENTIONAL LIGHTS LOCATED AT THE ON AND OFF RAMP GORES LOCATED ON BOTH SIDES OF I-70.
 2. EXISTING CIRCUIT TO BE REMOVED OR ABANDONED.
 3. EXISTING CIRCUIT TO REMAIN.
 4. CIRCUITS IN THIS PROJECT ARE BASED ON AS-BUILTS FROM JOB #1310620 DATED 5/3/2001. VERIFY ALL EXISTING CIRCUITS PRIOR TO CONSTRUCTION. LIGHTS AT THE GORES SHALL REMAIN OPERATIONAL.
 5. REFER TO SHEET 1 OF 2 FOR LEGEND.

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LIGHTING PLAN
 SHEET 2 OF 2



11/18/2024 9:18:36 AM
 Laura Anne Glaser - Electrical
 MO PE-2010001771

DATE PREPARED
 14-NOV-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 NE 39

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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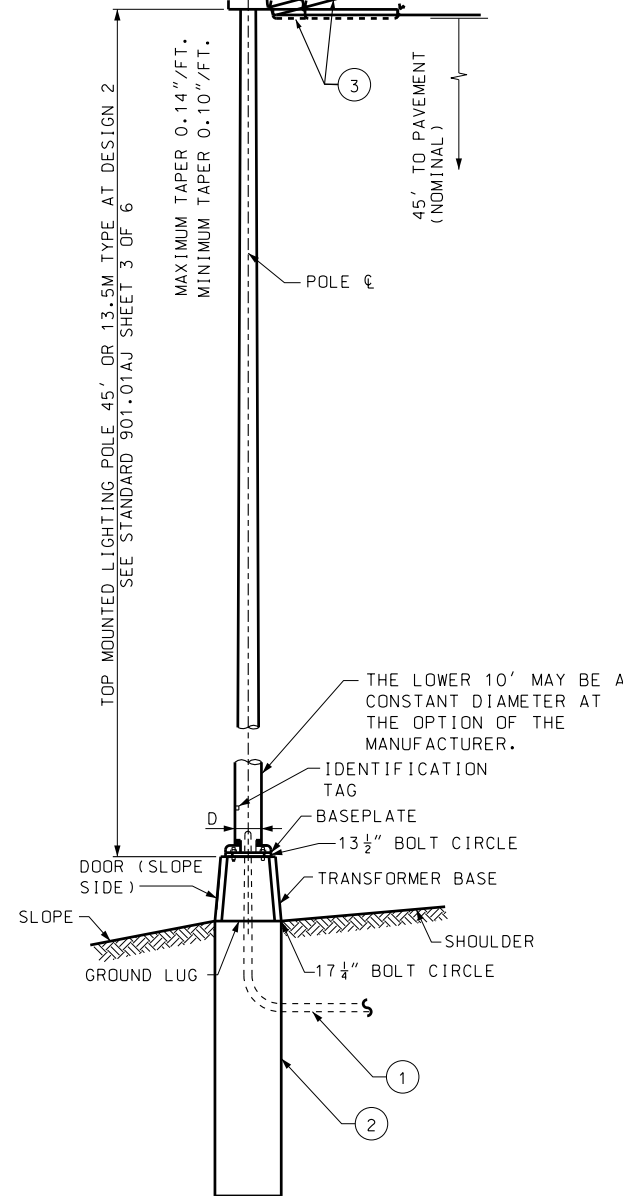


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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

LOW TILT (15° TYP.)
 2" TOP MOUNTED POLE TOP (ACTUAL O.D. 2.38")
 TOP MOUNTED LED-C LUMINAIRE



TYPE AT
 (SINGLE LUMINAIRE)

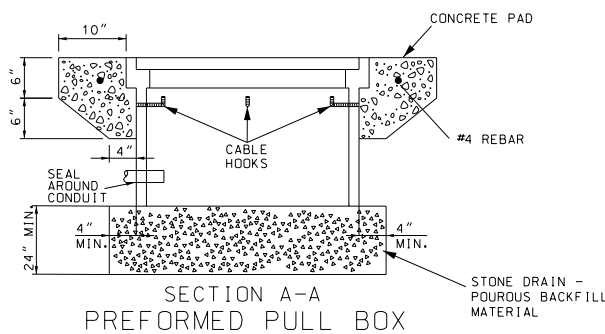
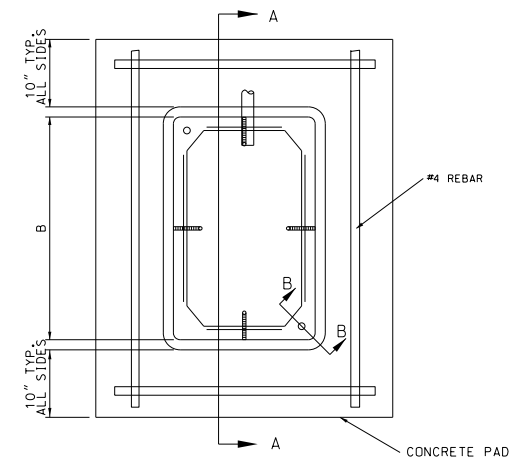
45' TOP MOUNT POLE/
 TOP MOUNTED LED-C LUMINAIRE

GENERAL NOTES:

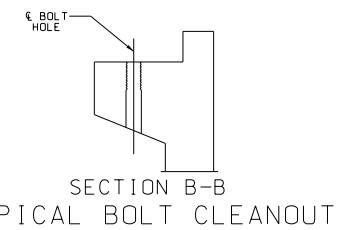
- A. HOLES SHALL BE PUNCHED ONLY FOR SPECIFIED BOLT CIRCLE.
- B. TRANSFORMER BASE SHALL BE CERTIFIED AS MEETING THE BREAKAWAY CRITERIA AND STRUCTURAL REQUIREMENTS AS SET BY THE CURRENT AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" AND MEET THE BREAKAWAY REQUIREMENTS OF NCHRP 350.
- C. TRANSFORMER BASES SHALL BE FURNISHED WITH ONE DRILLED AND TAPPED HOLE AND GROUNDING LUG FOR GROUNDING EQUIPMENT.
- D. TYPE AT POLES SHALL BE EQUIPPED WITH THE GROUNDING LUG INSIDE THE TRANSFORMER BASE. TYPE B AND MB POLES SHALL BE EQUIPPED WITH A GROUNDING LUG INSIDE THE POLE.
- E. POST SHALL BE GROUNDED FROM GROUND LUG IN POST WITH #6 AWG BARE COPPER WIRE TO CONDUIT SYSTEM. GROUND LUG SHALL BE 90° OR 180° FROM HANDHOLE.

① RIGID CONDUIT SYSTEM. WIRES SHALL BE SPLICED AT FUSED CONNECTOR IN POLE BASE. IF CABLE-CONDUIT IS SPECIFIED, CUT CABLE-CONDUIT SHEATH AWAY FROM THE CABLES WHERE CABLE-CONDUIT EXITS THE RIGID CONDUIT SYSTEM IN THE POLE BASE. (SEE MODOT STANDARD DRAWING 901.02 "TYPICAL TRANSFORMER BASE ATTACHMENT")

② CONCRETE FOUNDATION PER MODOT STANDARD DRAWING 901.01, SHEET 6 OF 6. FOUNDATION SHALL MATCH DEPTH AS REQUIRED BY POLE DESIGNS 1, 2, 3, 4 & 5.



PREFORMED PULL BOX CONCRETE PAD DETAIL



SECTION B-B
 TYPICAL BOLT CLEANOUT



11/18/2024 9:18:41 AM
 Laura Anne Glaser - Electrical
 MO PE-2010001771

DATE PREPARED
 14-NOV-2024

ROUTE STATE
 E MO
 DISTRICT SHEET NO.
 NE 40

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

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PROJECT NO.

BRIDGE NO.

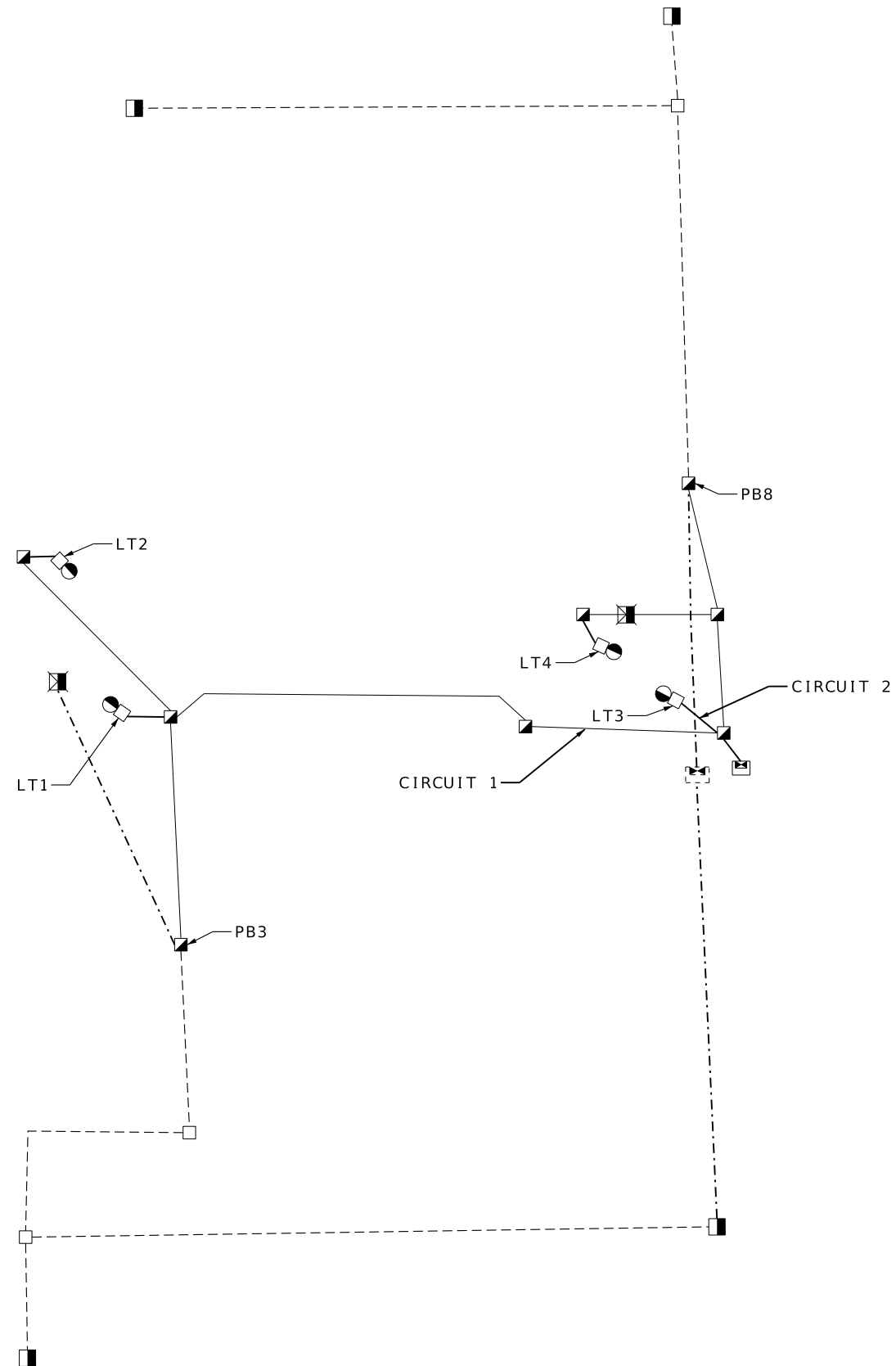
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
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 JEFFERSON CITY, MO 65102
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


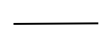
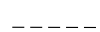
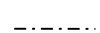




Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

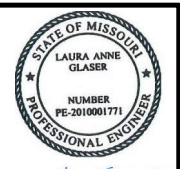
LIGHTING DETAIL

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



LEGEND

-  NEW LIGHT POLE
-  EXISTING LIGHT POLE TO REMAIN
-  EXISTING LIGHT POLE TO BE REMOVED
-  NEW LIGHTING CIRCUIT
-  EXISTING LIGHTING CIRCUIT TO REMAIN
-  EXISTING LIGHTING CIRCUIT TO BE REMOVED
-  NEW PULL BOX
-  EXISTING PULL BOX TO REMAIN
-  NEW LIGHTING CONTROLLER
-  EXISTING CONTROLLER TO BE REMOVED



11/18/2024 9:18:46 AM
 Laura Anne Glaser - Electrical
 MO PE-2010001771

DATE PREPARED
18-NOV-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	41

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



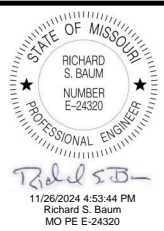
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs.
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

LIGHTING WIRING DIAGRAM

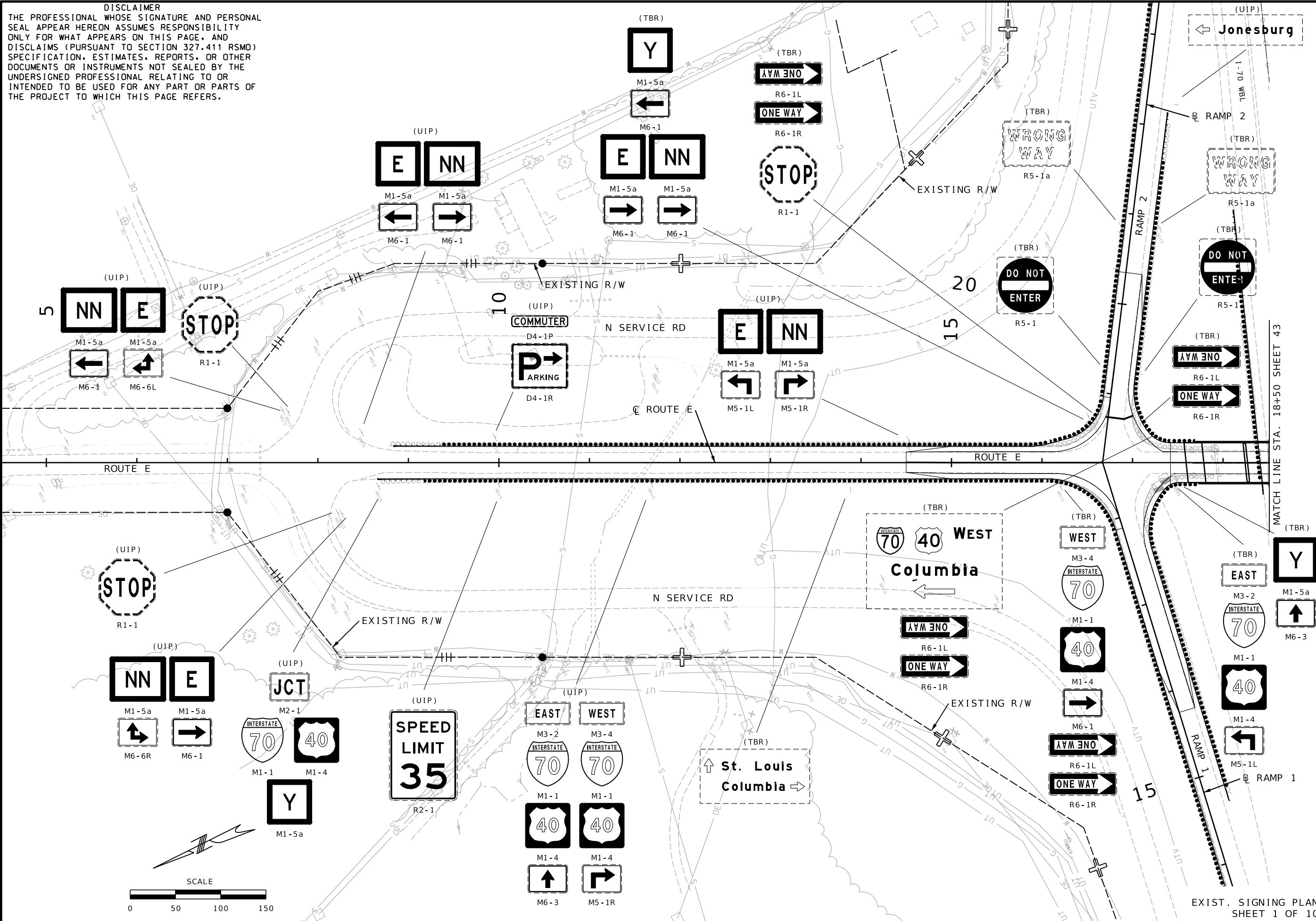
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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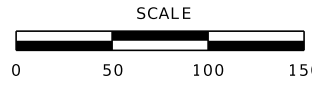


DATE PREPARED	
26-NOV-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	42
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

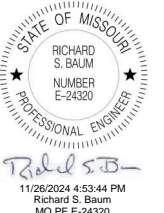


EXIST. SIGNING PLAN SHEET 1 OF 10



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

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DATE PREPARED
 26-NOV-2024
 ROUTE STATE
 E MO
 DISTRICT SHEET NO.
 NE 43
 COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

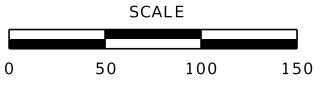
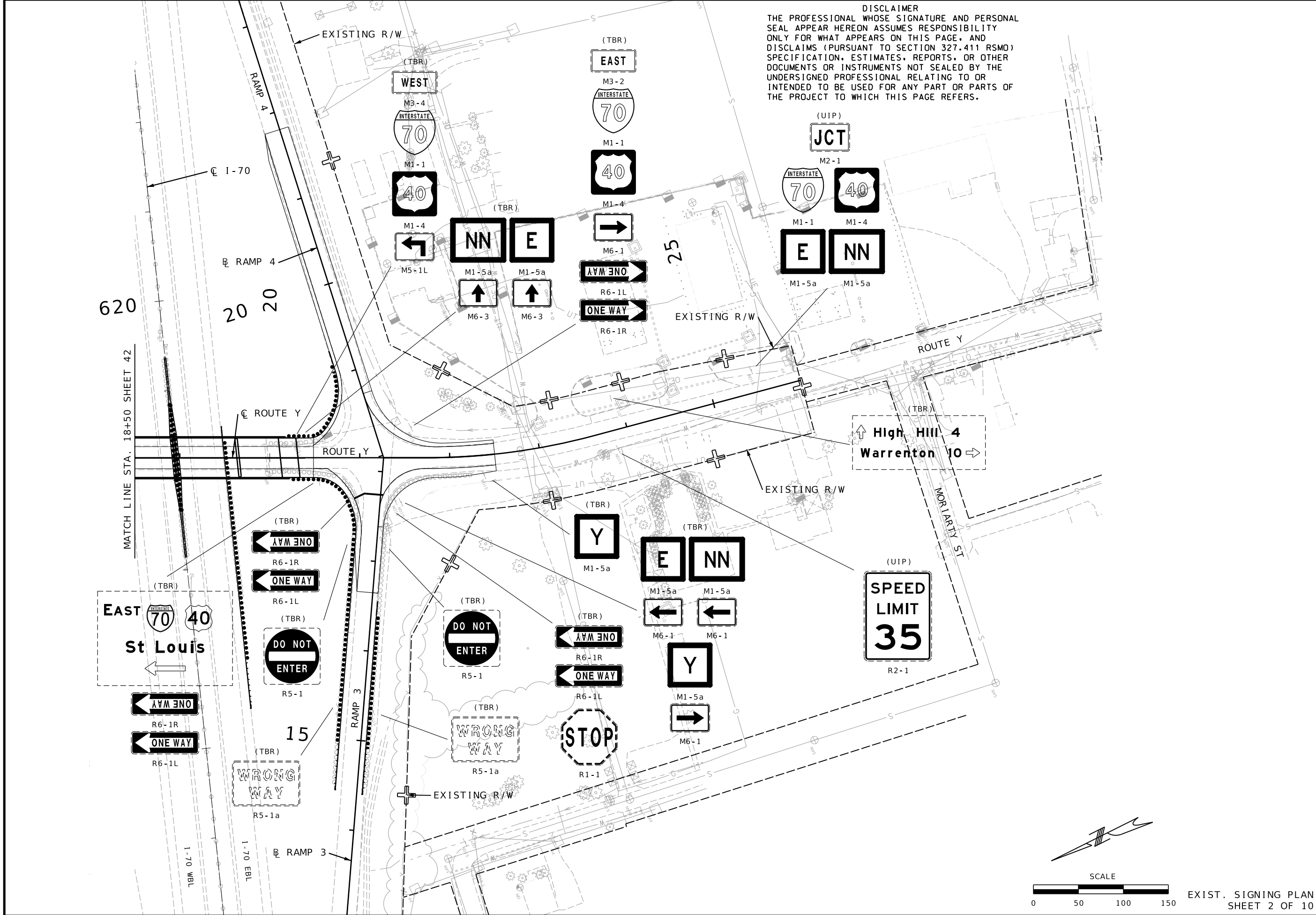
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

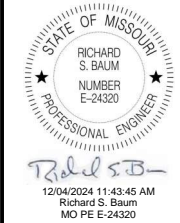
Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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

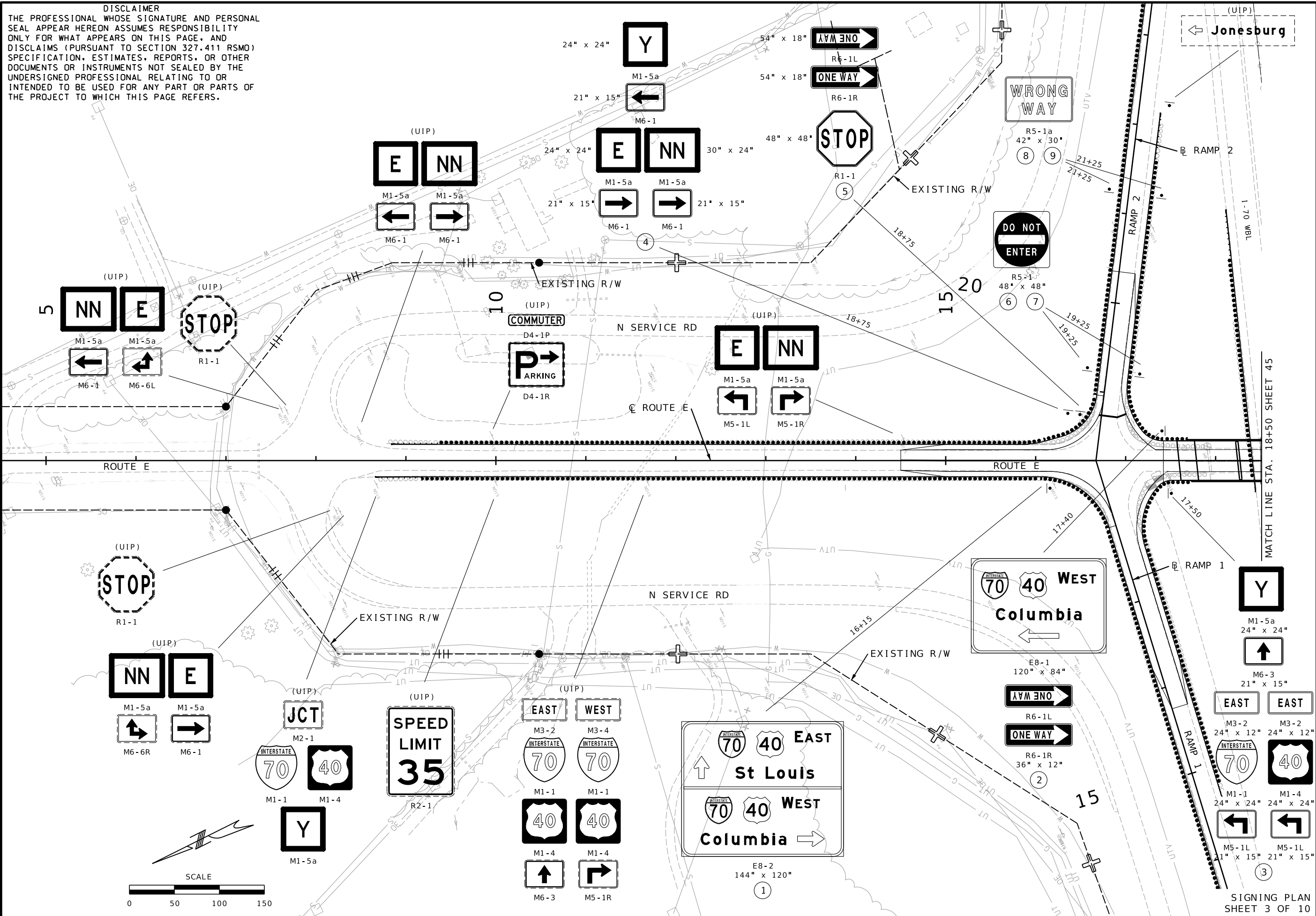


EXIST. SIGNING PLAN
 SHEET 2 OF 10

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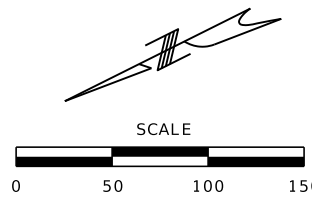
DATE PREPARED	
4-DEC-2024	
ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
NE	44
COUNTY	
MONTGOMERY	
JOB NO.	
J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



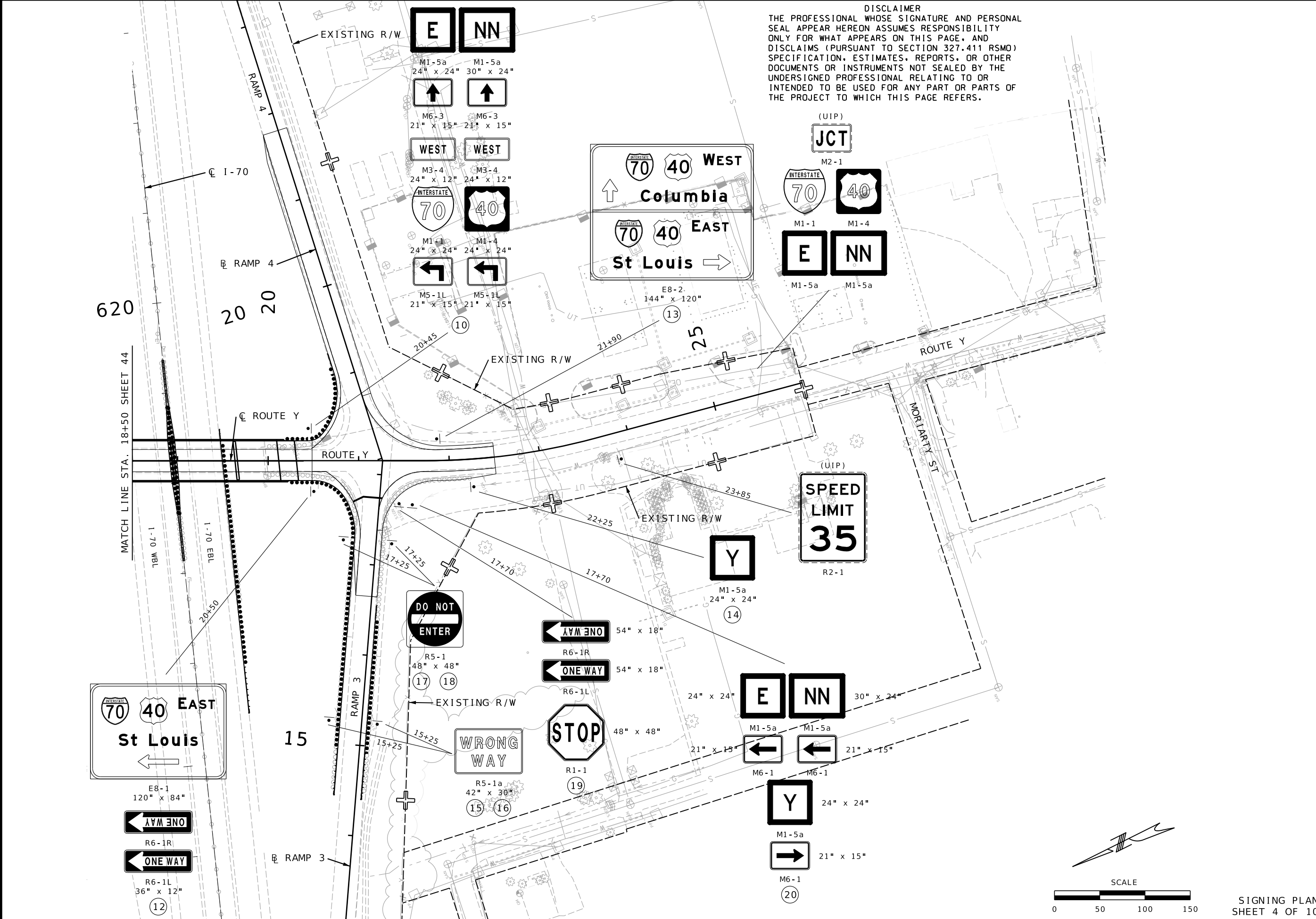
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

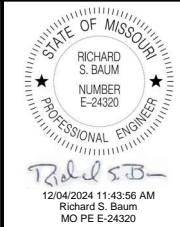
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



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DATE PREPARED
4-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 45

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

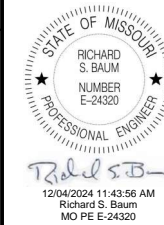
MoDOT

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

Jacobs

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
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 CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED
4-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 46

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION table with 2 columns: DATE, DESCRIPTION

DATE table with 2 columns: DATE, DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION logo and address: 105 WEST CAPITOL JEFFERSON CITY, MO 65102

Jacobs logo and address: JACOBS ENGINEERING GROUP 1001 HIGHLANDS PLAZA DRIVE ST. LOUIS, MISSOURI 63110

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

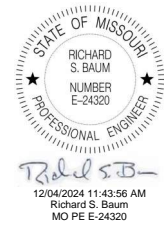
Main project data table with columns for SIGNS, CONCRETE FOOTINGS, STRUCTURAL STEEL POSTS, PIPE POSTS, BACKING BARS, U-CHANNEL POST, PERFORATED SQUARE STEEL TUBE, and REMARKS AND OTHER REQUIRED ITEMS. Includes rows 1-20 and subtotal/total rows.

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

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



DATE PREPARED
4-DEC-2024

ROUTE STATE
E MO
DISTRICT SHEET NO.
NE 47

COUNTY
MONTGOMERY

JOB NO.
J2S3439
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

Table with 2 columns: DATE, DESCRIPTION

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

Jacobs logo
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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

Main table with columns: SIGN NUMBER, STATION, LOCATION, TYPE (M3-2, M3-4, etc.), STANDARD SIGN OR SPECIAL SIGN NUMBER, SIGN DETAIL SHEET NO., NO. EACH, SIZE, FLAT SHEET SH, FLAT SHEET FLUORESCENT SHF *, STRUCTURAL ST, STRUCTURAL FLUORESCENT STF *.

* ORANGE, YELLOW & YELLOW/GREEN



Richard S. Baum
11/26/2024 4:53:44 PM
Richard S. Baum
MO PE E-24320

SIGN SUMMARY

DATE PREPARED
26-NOV-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 48

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE															
			R6-1R	R6-1L	SIGN DESCRIPTION, SIZES & NUMBER OF EACH													
			ONE WAY FLIGHT 5'4" X 18"	ONE WAY 5'4" X 18"														
5	18+75	RAMP 2	1	1														
19	17+70	RAMP 3	1	1														
TOTAL			2*	2*														

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET			
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A
TOTAL						

*NOTE: SEE PREVIOUS SHEET FOR SIGN SUMMARY

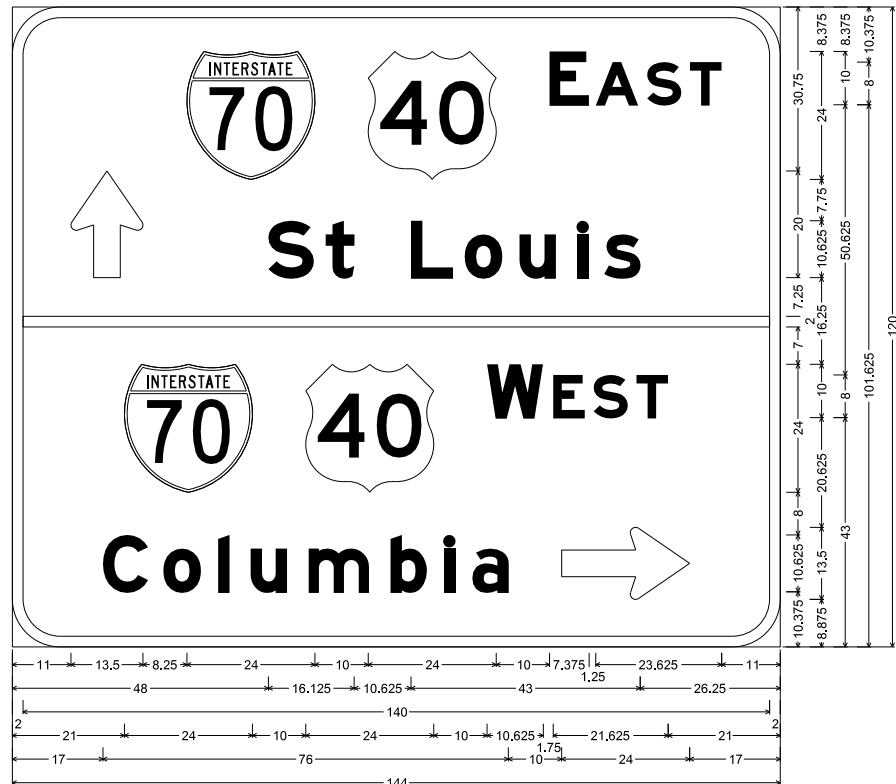
* ORANGE, YELLOW & YELLOW/GREEN

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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

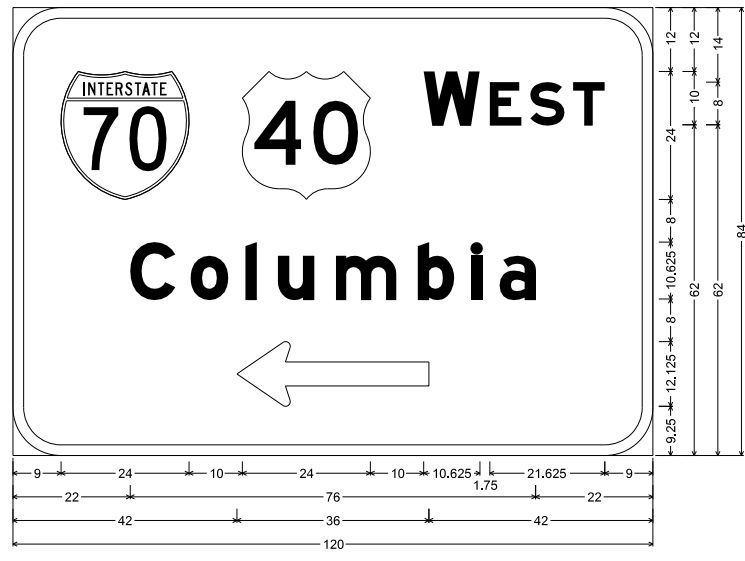


SIGN NO.	1
STATION	16+15
ROADWAY	ROUTE E

E8-2 ST-STRUCTURAL:
 9,000" Radius, 2,000" Border, White on, Green;
 Standard Arrow Custom 20,000" X 13,500" 90"; Interstate 70 12,000" C; "EAST", E Mod; "St Louis", E Mod;
 Interstate 70 12,000" C; "WEST", E Mod; "Columbia", E Mod; Standard Arrow Custom 24,000" X 13,500" 0";
 Table of letter and object lefts

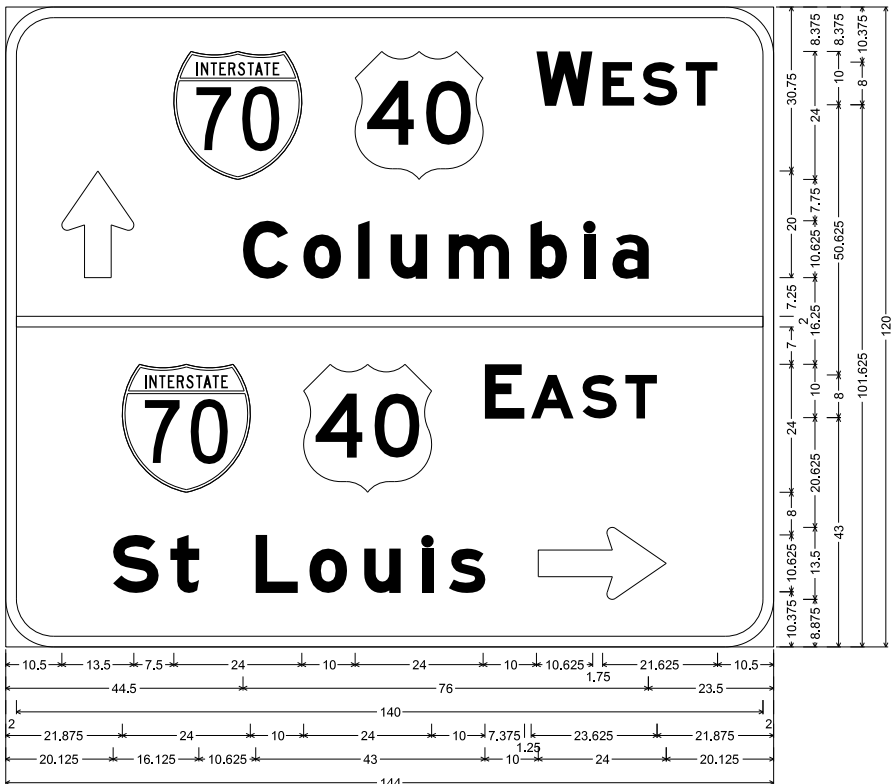
↑	⑧	W	E	A	S	T		
11,000	32,750	66,750	100,750	109,375	119,000	127,125		
S	t	L	o	u	s			
48,000	58,750	74,750	84,875	95,125	106,000	111,000		
←								
2,000								
⑧	W	E	A	S	T			
21,000	55,000	89,000	101,375	109,000	117,000			
C	o	l	u	m	b	a	⇨	
17,000	28,375	38,625	44,625	55,625	70,875	81,000	86,250	103,000

SIGN NO.	2
STATION	17+40
ROADWAY	ROUTE E



E8-1 ST-STRUCTURAL:
 9,000" Radius, 2,000" Border, White on, Green;
 Interstate 70 12,000" C; "WEST", E Mod; "Columbia", E Mod;
 Standard Arrow Custom 36,000" X 12,125" 180";
 Table of letter and object lefts

↑	⑧	W	E	A	S	T	
9,000	43,000	77,000	89,375	97,000	105,000		
C	o	l	u	m	b	a	⇨
22,000	33,375	43,625	49,625	60,625	75,875	86,000	91,250
←							
42,000							

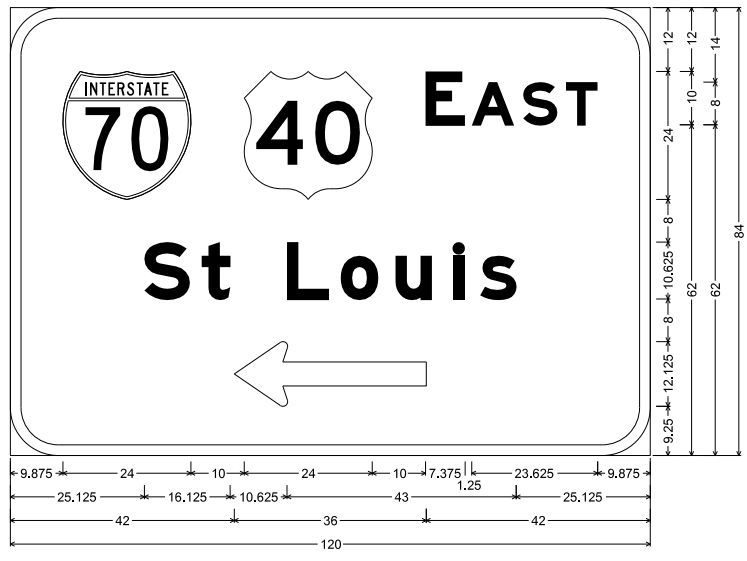


SIGN NO.	13
STATION	21+90
ROADWAY	ROUTE Y

E8-2 ST-STRUCTURAL:
 9,000" Radius, 2,000" Border, White on, Green;
 Standard Arrow Custom 20,000" X 13,500" 90"; Interstate 70 12,000" C; "WEST", E Mod; "Columbia", E Mod;
 Interstate 70 12,000" C; "EAST", E Mod; "St Louis", E Mod; Standard Arrow Custom 24,000" X 13,500" 0";
 Table of letter and object lefts

↑	⑧	W	E	A	S	T	
10,500	31,500	65,500	99,500	111,875	119,500	127,500	
C	o	l	u	m	b	a	⇨
44,500	55,875	66,125	72,125	83,125	98,375	108,500	113,750
←							
2,000							
⑧	E	A	S	T			
21,875	55,875	89,875	98,500	108,125	116,250		
S	t	L	o	u	s	⇨	
20,125	30,875	46,875	57,000	67,250	78,125	83,125	99,875

SIGN NO.	12
STATION	20+50
ROADWAY	ROUTE Y



E8-1 ST-STRUCTURAL:
 9,000" Radius, 2,000" Border, White on, Green;
 Interstate 70 12,000" C; "EAST", E Mod; "St Louis", E Mod;
 Standard Arrow Custom 36,000" X 12,125" 180";
 Table of letter and object lefts

↑	⑧	E	A	S	T	
9,875	43,875	77,875	86,500	96,125	104,250	
S	t	L	o	u	s	⇨
25,125	35,875	51,875	62,000	72,250	83,125	88,125
←						
42,000						

STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER
 E-24320
 PROFESSIONAL ENGINEER
 Richard S. Baum
 11/26/2024 4:53:44 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED
 26-NOV-2024
 ROUTE STATE
 E MO
 DISTRICT SHEET NO.
 NE 49
 COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 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)

Jacobs
 JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DRIVE
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SIGNING
 SHEET 8 OF 10

D-31

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



Richard S. Baum
12/04/2024 11:43:56 AM
Richard S. Baum
MO PE E-24320

DATE PREPARED
4-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
NE 50

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

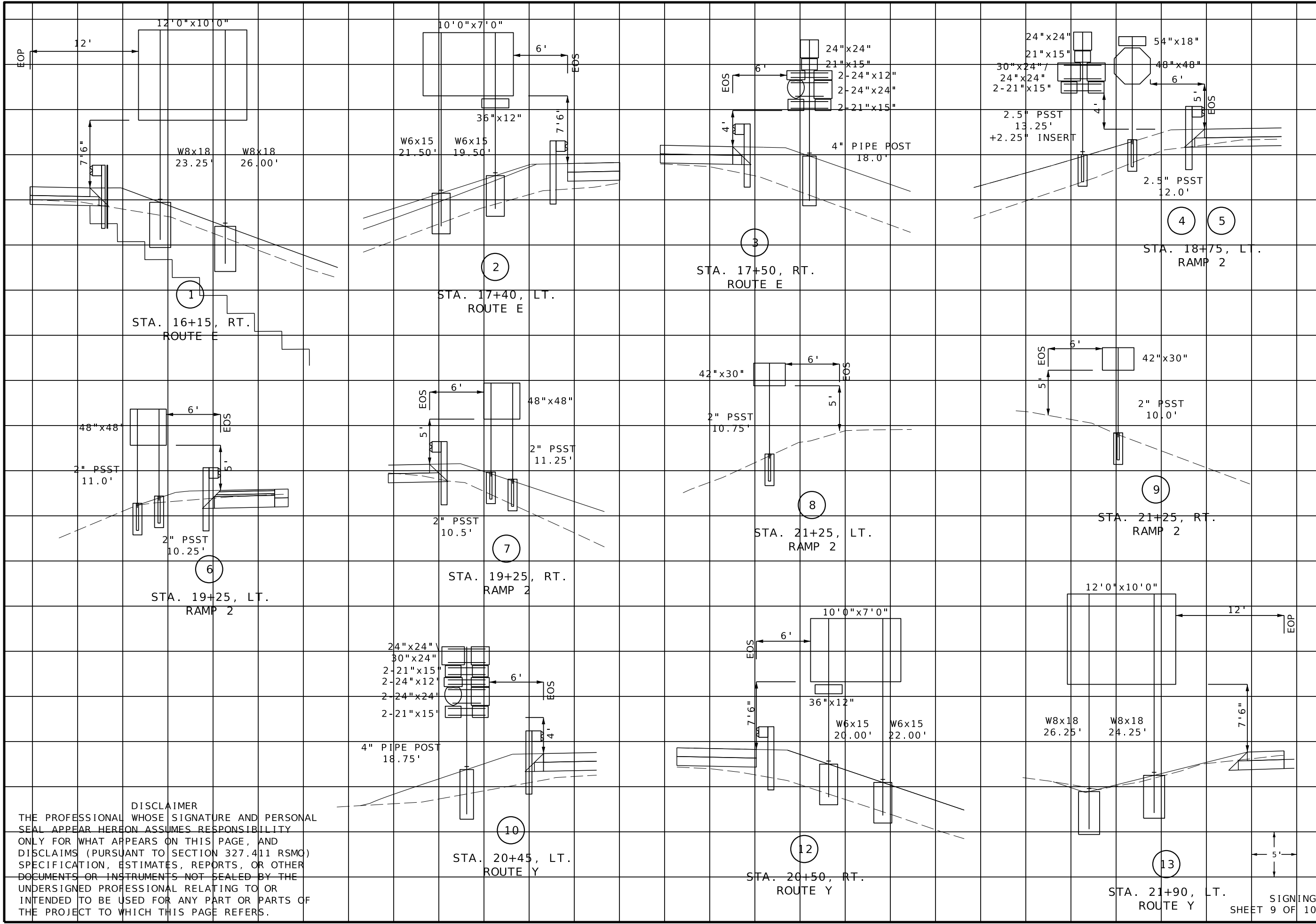
DESCRIPTION	DATE

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

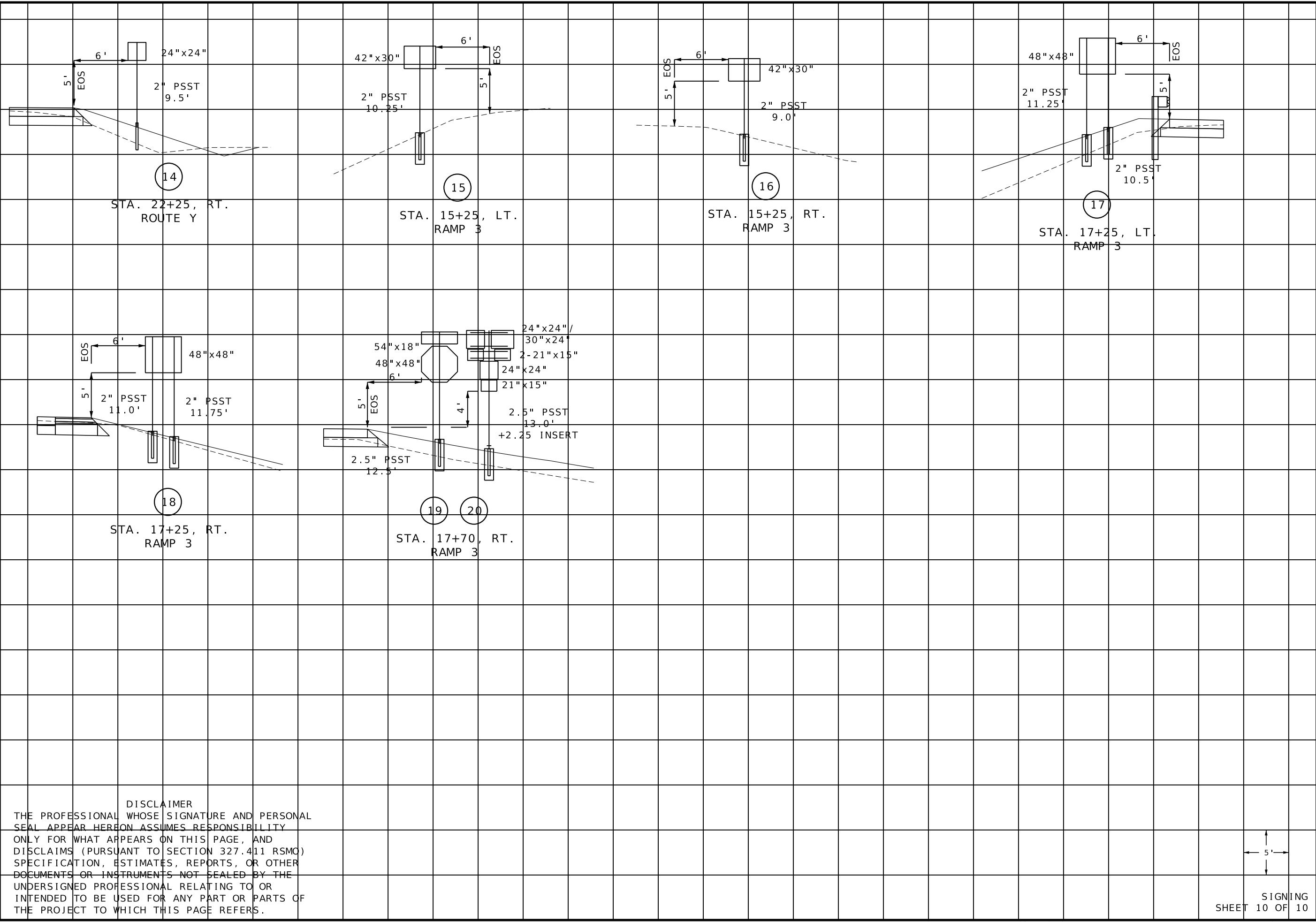


JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER
 Richard S. Baum
 11/26/2024 4:53:44 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED	26-NOV-2024
ROUTE	E
STATE	MO
DISTRICT	NE
SHEET NO.	51
COUNTY	MONTGOMERY
JOB NO.	J2S3439
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

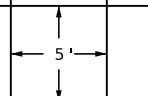
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Jacobs
 JACOBS ENGINEERING GROUP
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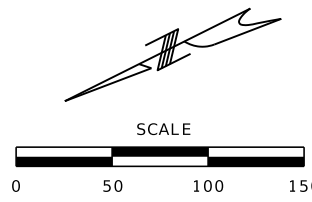
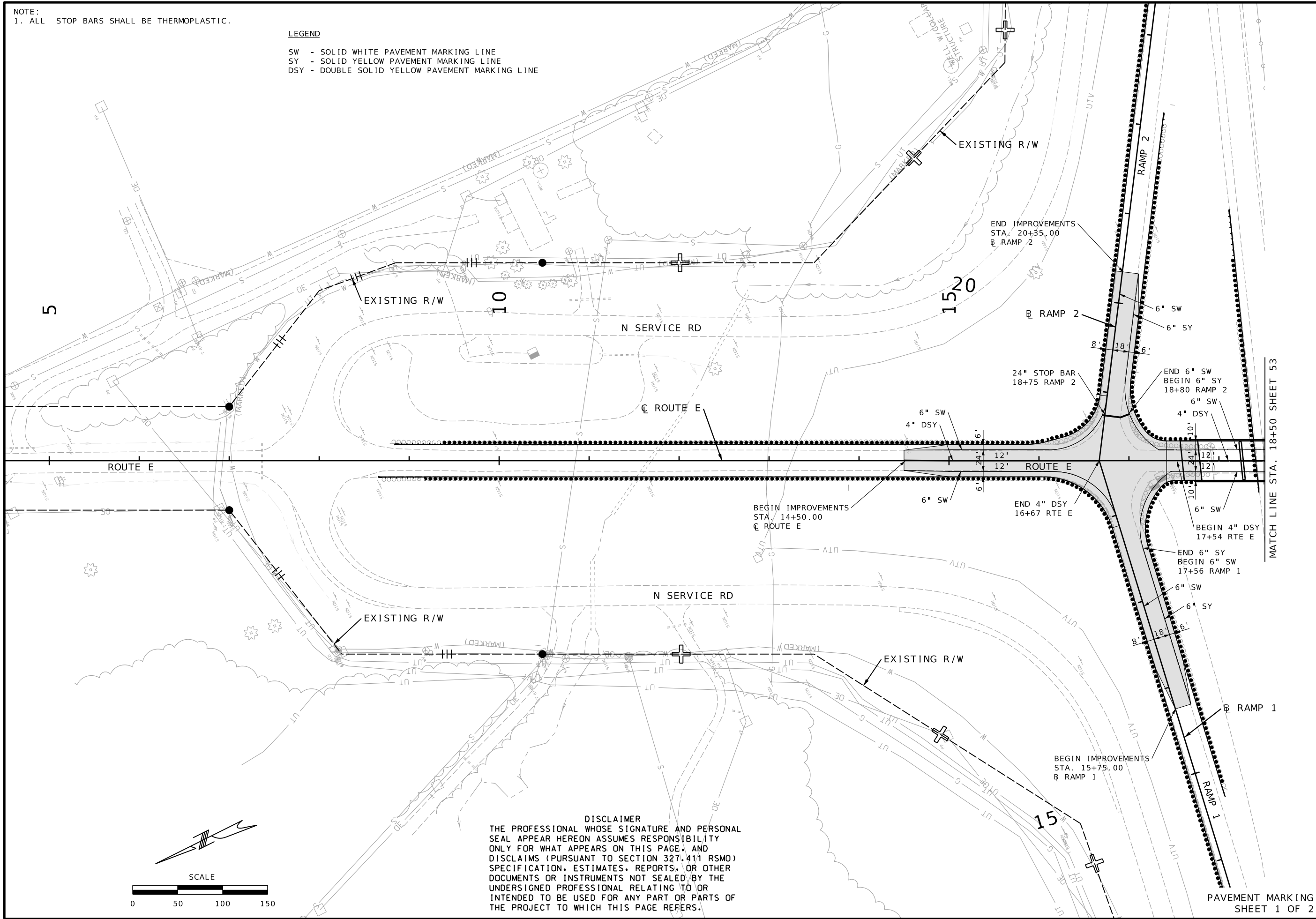
SIGNING
 SHEET 10 OF 10

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

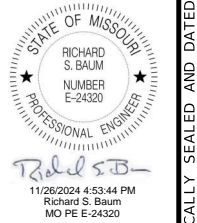
NOTE:
1. ALL STOP BARS SHALL BE THERMOPLASTIC.

LEGEND

- SW - SOLID WHITE PAVEMENT MARKING LINE
- SY - SOLID YELLOW PAVEMENT MARKING LINE
- DSY - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE



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DATE PREPARED 26-NOV-2024	
ROUTE E	STATE MO
DISTRICT NE	SHEET NO. 52
COUNTY MONTGOMERY	
JOB NO. J2S3439	
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)

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

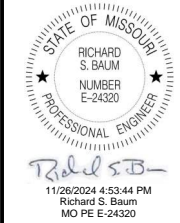
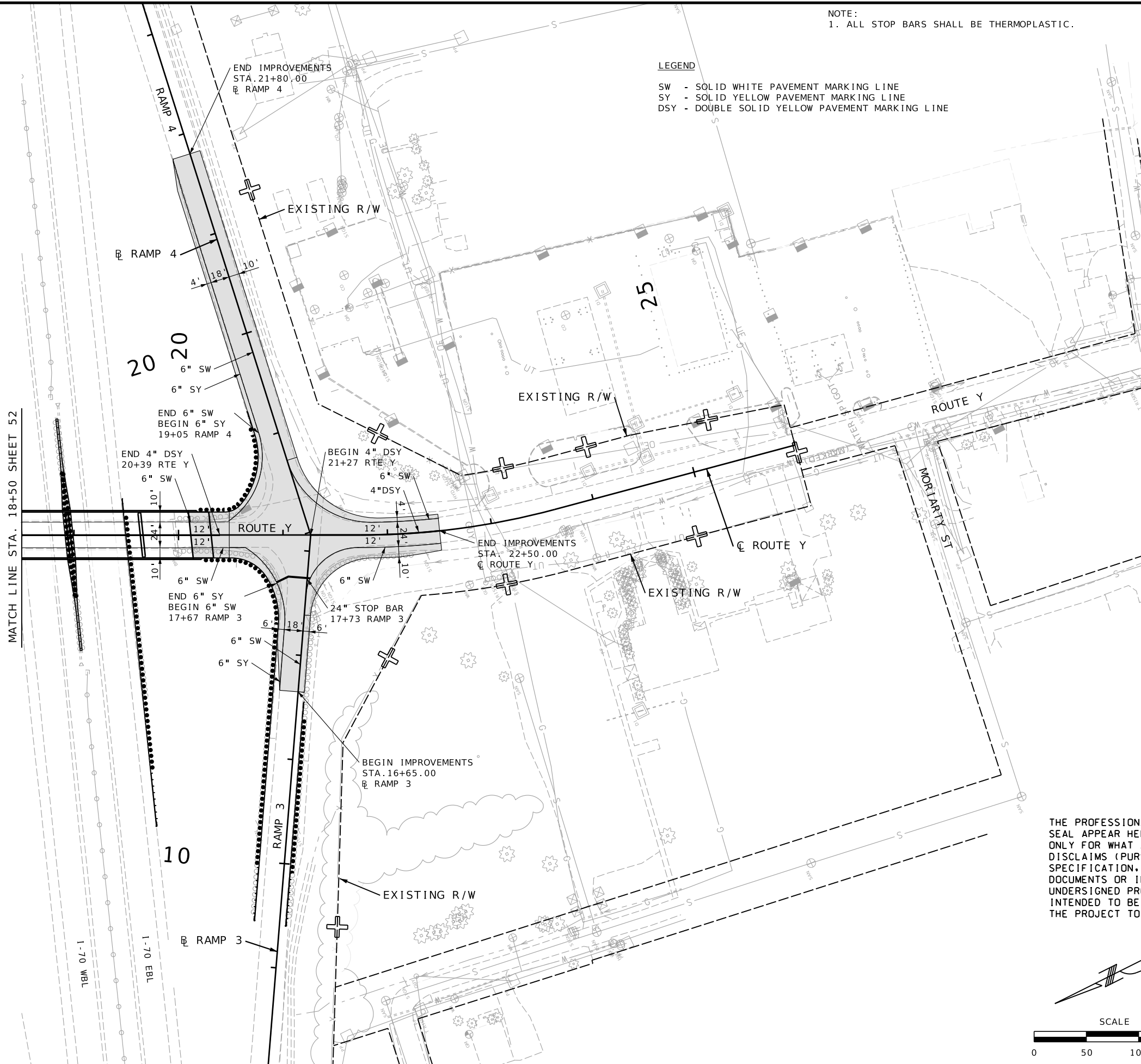
MATCH LINE STA. 18+50 SHEET 53

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

NOTE:
1. ALL STOP BARS SHALL BE THERMOPLASTIC.

LEGEND

- SW - SOLID WHITE PAVEMENT MARKING LINE
- SY - SOLID YELLOW PAVEMENT MARKING LINE
- DSY - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE



DATE PREPARED		26-NOV-2024	
ROUTE	STATE	E	MO
DISTRICT	SHEET NO.	NE	53
COUNTY			
MONTGOMERY			
JOB NO.			
J2S3439			
CONTRACT ID.			

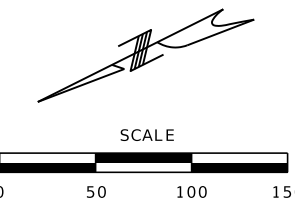
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



PAVEMENT MARKING SHEET 2 OF 2

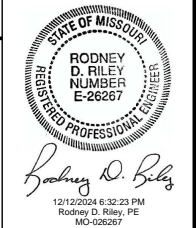
Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

MATCH LINE STA. 18+50 SHEET 52

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

(45.3' - 69.5' - 69.5' - 45.3') PRESTRESSED CONCRETE NU-GIRDER SPANS (SKEW 6°00'00" RA)

SEC/SUR 12 TWP 47 N RGE 4 W



DATE PREPARED
12-DEC-2024
ROUTE STATE
E MO
DISTRICT SHEET NO.
BR 1
COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A9375

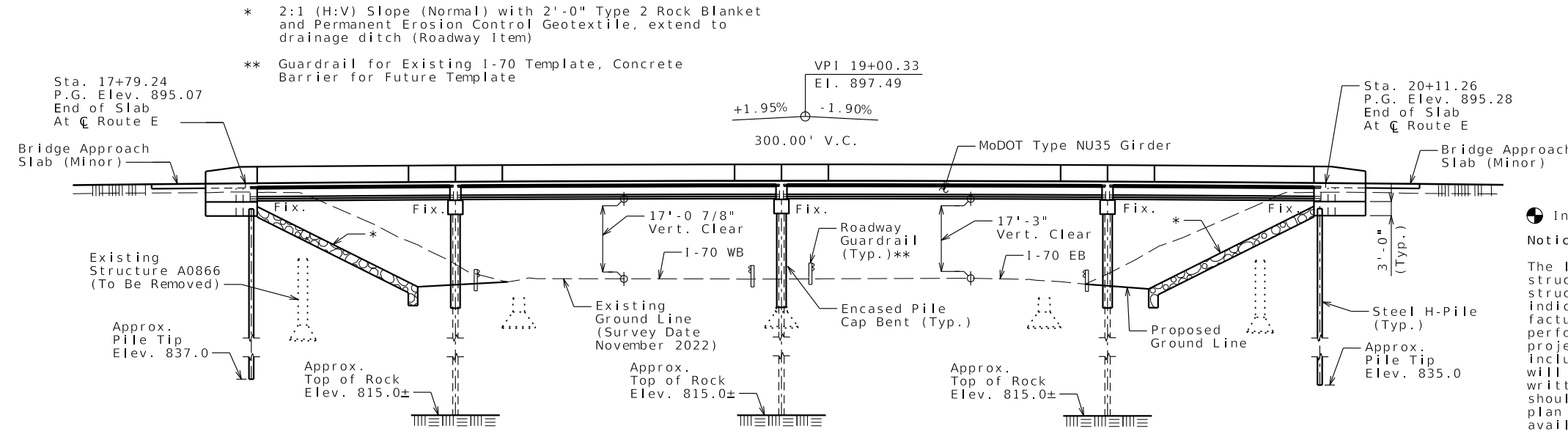
Indicates location of borings.
Notice and Disclaimer Regarding Boring Log Data

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. 30 & 31 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.

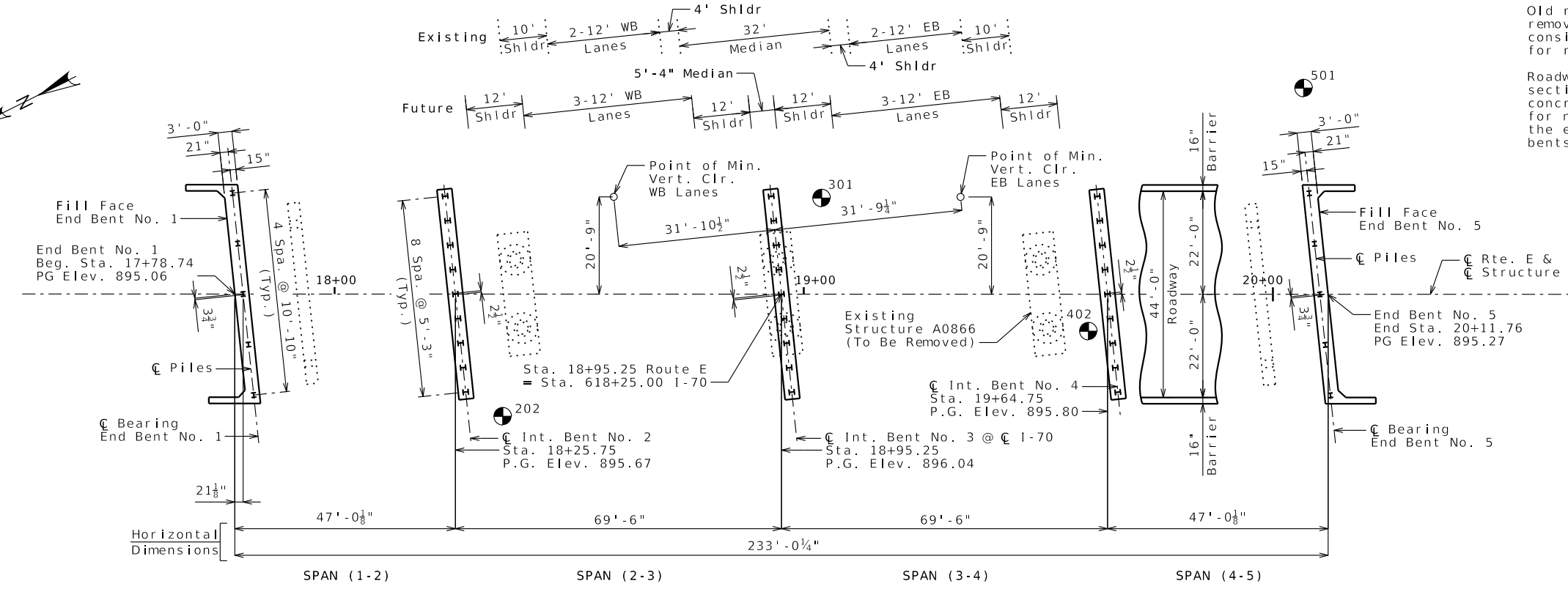
The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Old roadway fill under the end of the bridge shall be removed as shown. Removal of old roadway fill will be considered completely covered by contract unit price for roadway excavation.

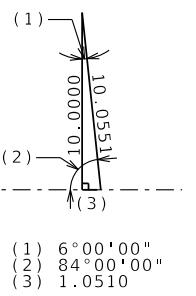
Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete beam within the limits of the structure and for not less than 25 feet in back of the fill face of the end bents before any piles are driven for any bents falling within the embankment section.



ELEVATION



PLAN



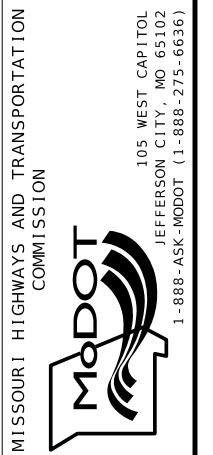
Detailed July 2024
Checked Sep. 2024

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

Sheet No. 1 of 31

BRIDGE: ROUTE E OVER I-70

ROUTE E FROM ROUTE FF TO ROUTE 19
ABOUT 3.8 MILES SOUTH OF ROUTE FF
BEG. STA. 17+78.74



REV.

Estimated Quantities				
Item		Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	60		60
Removal of Bridges (A0866)	lump sum			1
Bridge Approach Slab (Minor)	sq. yard		196	196
Galvanized Structural Steel Piles (12 in.)	linear foot	540		540
Galvanized Structural Steel Piles (14 in.)	linear foot	2115		2115
Dynamic Pile Testing	each	5		5
Pile Point Reinforcement	each	37		37
Class B Concrete (Substructure)	cu. yard	283.7		283.7
Type D Barrier	linear foot		498	498
Slab on Concrete NU-Girder	sq. yard		1,203	1,203
NU 35, Prestressed Concrete NU-Girder	linear foot		914	914
Conduit System on Structure	lump sum		1	1
Reinforcing Steel (Epoxy Coated)	pound	14,720		14,720
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum			1
Vertical Drain at End Bents	each			2
Plain Neoprene Bearing Pad	each		8	8
Laminated Neoprene Bearing Pad	each		24	24

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

All concrete above the construction joint in the end bents is included in the Estimate Quantities for Slab on Concrete NU-Girder.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

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

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Concrete NU-Girder.

Foundation Data						
Type	Design Data	Bent Number				
		1	2	3	4	5
Load Bearing Pile	Pile Type and Size	HP 12x53	HP 14x73	HP 14x73	HP 14x73	HP 12x53
	Number	ea 5	9	9	9	5
	Approximate Length Per Each	ft 53	78	79	78	55
	Pile Point Reinforcement	ea All	All	All	All	All
	Min. Galvanized Penetration (Elev.)	ft 867	853	853	853	868
	Min. Tip Penetration (Elev.)	ft 837	815	815	815	835
	Criteria for Min. Tip Penetration	Anticipated	Anticipated	Anticipated	Anticipated	Anticipated
	Pile Driving Verification Method	DT	DT	DT	DT	DT
	Resistance Factor	0.65	0.65	0.65	0.65	0.65
	Minimum Nominal Axial Compressive Resistance	kip 292	395	395	395	292

DT = Dynamic Testing

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

Manufactured pile point reinforcement shall be used on all piles in this structure.

All Piles shall be galvanized down to the minimum galvanized penetration (elevation).

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

The contractor shall make every effort to achieve the minimum tip penetration (elevation) shown on the plans for all piles and achieve the minimum axial compressive resistance which needs be verified by the specified field verification method.

HP piles are anticipated to be driven to refusal on rock at the intermediate bent locations. Review all borings for subsurface driving conditions 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.

Estimated Quantities for Slab on Concrete NU-Girder		
Item		Total
Class B-2 Concrete	cu. yard	392
Reinforcing Steel (Epoxy Coated)	pound	79,360

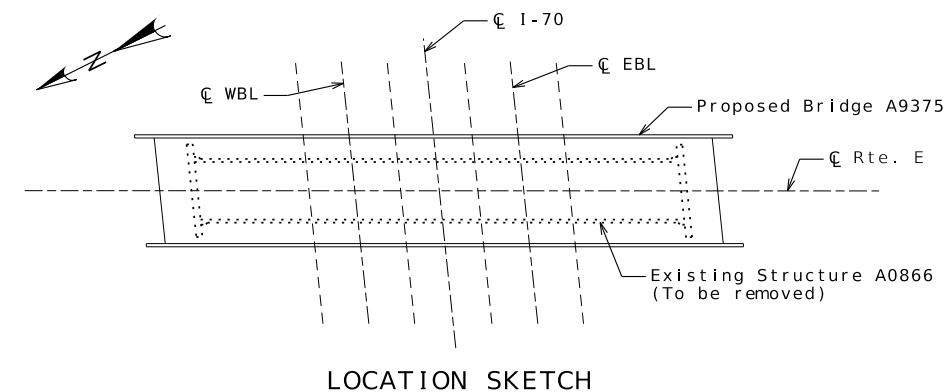
The table of Estimated Quantities for Slab on Concrete NU-Girder represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for prestressed panels, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in 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.

The Estimated Quantities for Slab on Concrete NU-Girder are based on skewed precast prestressed end panels.

Class B-2 Concrete quantity is based on minimum top flange thickness and minimum joint material thickness.

The prestressed panel quantities are not included in the table of Estimated Quantities for Slab on Concrete NU-Girder.



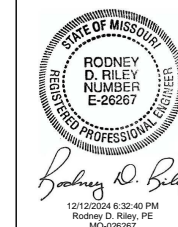
GENERAL NOTES AND QUANTITIES

Detailed July 2024
Checked Sep. 2024

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

Sheet No. 2 of 31

pw://jacobs-us-va-pw.bentley.com: jacobs-us-va-pw-04/Documents/F3X00900 - I-70 High Hill RR Reali/30 WIP/J2S3439/Bridge/Sheets/B_A9375_002_J2S3439_Notes-01.dgn



DATE PREPARED
12-DEC-2024

ROUTE E STATE MO

DISTRICT BR SHEET NO. 2

COUNTY

MONTGOMERY

JOB NO.

J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A9375

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST, SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 385-4000

CERTIFICATE AUTHORITY

#00704

REV.

16:36 12-DEC-2024

General Notes:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
 2011 AASHTO Guide Specifications for LRFD Seismic Bridge Design (2nd Ed.) and 2014 Interim Revisions (Seismic Details)
 Seismic Design Category = B
 Design earthquake response spectral acceleration coefficient at 1.0 second period, $SD1 = 0.161g$
 Acceleration Coefficient (effective peak ground acceleration coefficient) $As = 0.126g$

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 Stress:

Class B Concrete (Substructure)	$f'c = 3,000 \text{ psi}$
Class B-2 Concrete (Superstructure, except Prestressed Girders and Barrier)	$f'c = 4,000 \text{ psi}$
Class B-1 Concrete (Barrier)	$f'c = 4,000 \text{ psi}$
Reinforcing Steel (ASTM A615 Grade 60)	$f_y = 60,000 \text{ psi}$
Structural Steel HP Pile (ASTM A709 Grade 50)	$f_y = 50,000 \text{ psi}$

For precast prestressed panel stresses, see Sheet No. 19.
 For prestressed girder stresses, see Sheets No. 13 thru 16.

Neoprene Pads:

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

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown

Traffic Handling:

Vertical clearance for Route I-70 traffic during construction shall be 15'-6" minimum over a 24'-0" wide horizontal opening of the roadway in each direction.

Structure to be closed during construction. See roadway plans for traffic control.

Concrete Protective Coatings:

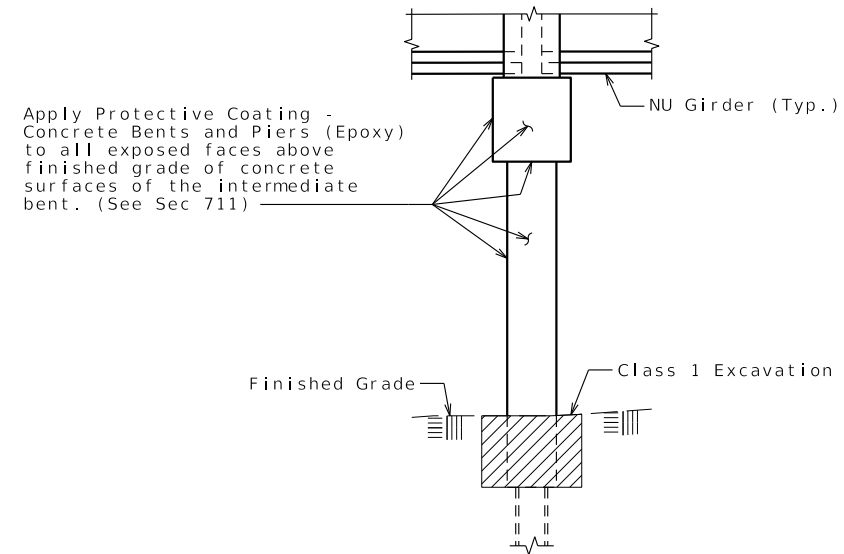
Protective coating for concrete bents (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Miscellaneous:

MoDOT Construction personnel will indicate the type of joint filler option used under the precast panels for this structure:

- Constant Joint Filler
- Variable Joint Filler

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



PROTECTIVE COATING DETAILS AT INTERMEDIATE BENTS NO. 2, 3 AND 4



12/12/2024 8:32:41 PM
 Rodney D. Riley, PE
 MO-026267

DATE PREPARED
12-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
BR 3

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

DESCRIPTION

DATE

DESCRIPTION

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GENERAL NOTES

Detailed July 2024
 Checked Sep. 2024

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

Sheet No. 3 of 31



RODNEY D. RILEY
LICENSE NUMBER
E-26267
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
12-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
BR 4

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

DESCRIPTION

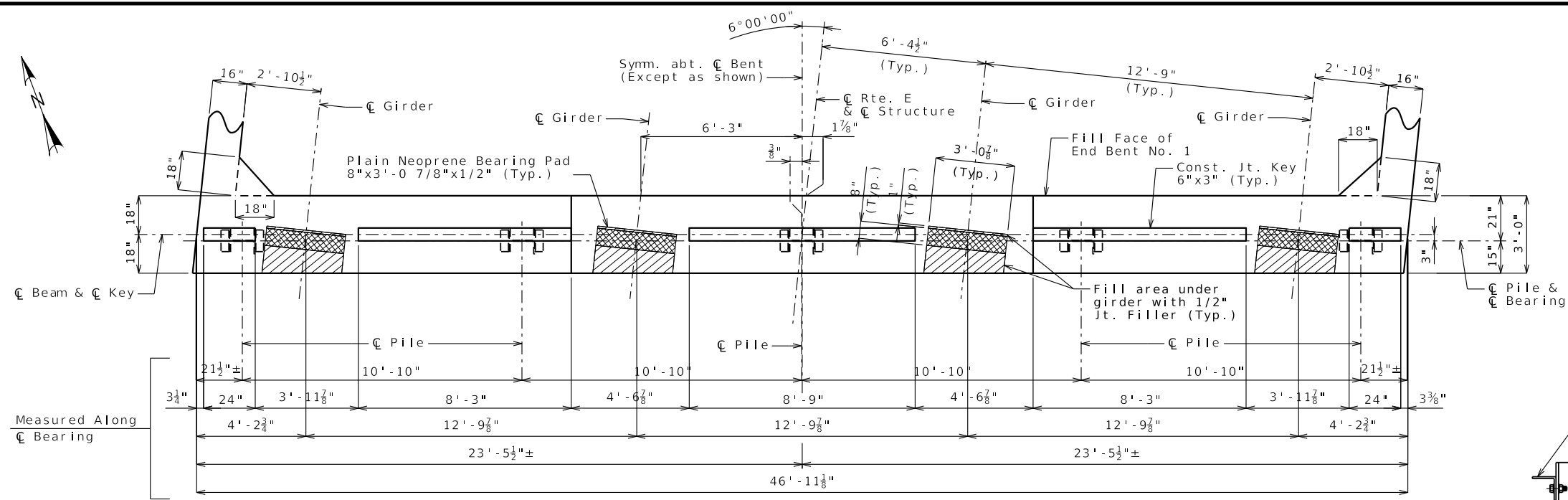
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

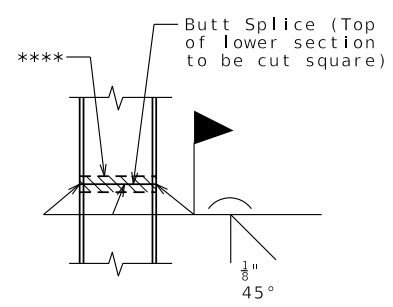
MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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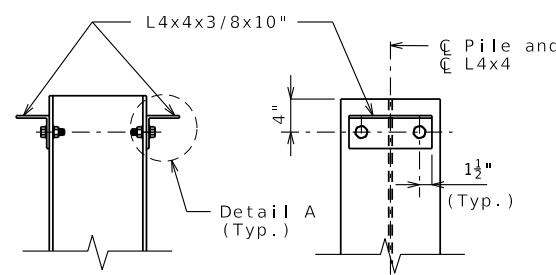


PLAN OF BEAM SHOWING DIMENSIONS

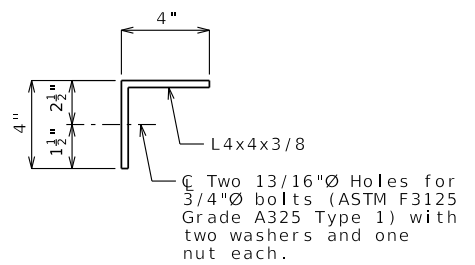


STEEL PILE SPLICE (If required)

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

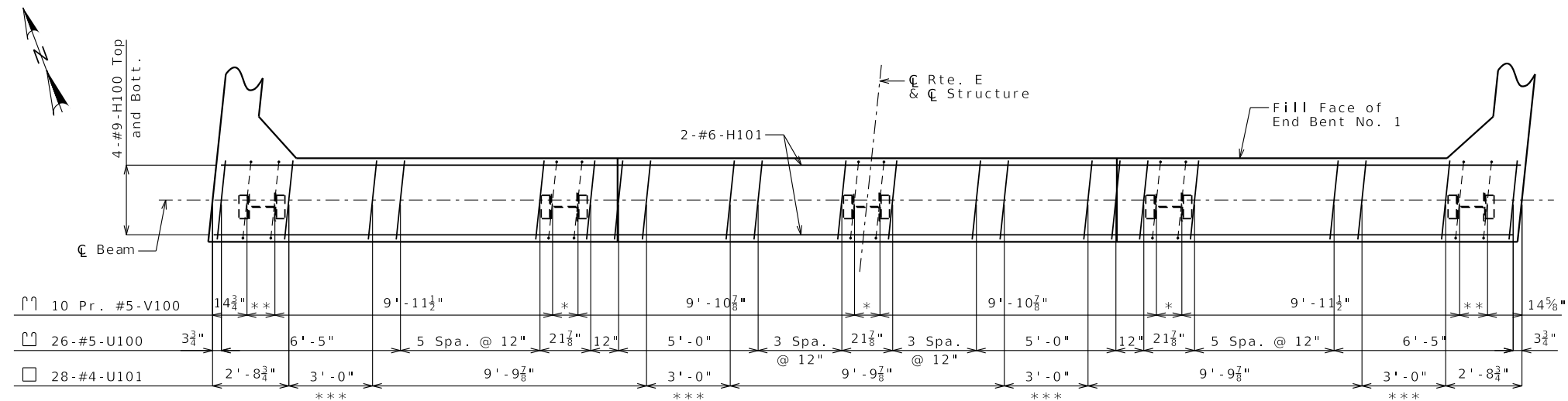


DETAILS OF HP PILE ANCHORS



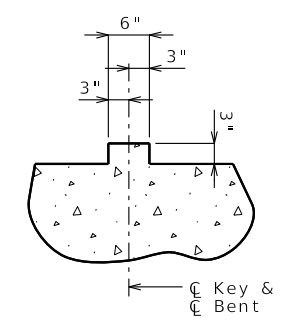
DETAIL A

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 SHOWING REINFORCEMENT

* 11"
** 12"
*** 6 Spa. @ 6"



SECTION THRU KEY

General Notes:

- For details of End Bent No. 1 not shown, see Sheets No. 5 & 6.
- All U-bars and Pr. V-bars shall be placed parallel to C of roadway.
- All reinforcing bars shall be field adjusted to clear piles by at least 1 1/2".
- For details of vertical drain at end bents, see Sheet No. 7.
- For details of bridge approach slab, see Sheet No. 25.
- Reinforcement of wingwall not shown for clarity.

Substructure Quantity Table for Bent No. 1		
Item		Quantity
Galvanized Structural Steel Piles (12 in.)	linear foot	265
Pile Point Reinforcement	each	5
Dynamic Pile Testing	each	1
Class B Concrete (Substructure)	cu. yard	18.9

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

DETAILS OF END BENT NO. 1

Detailed Aug. 2024
Checked Sep. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 4 of 31



RODNEY D. RILEY
LICENSE NUMBER
E-26267

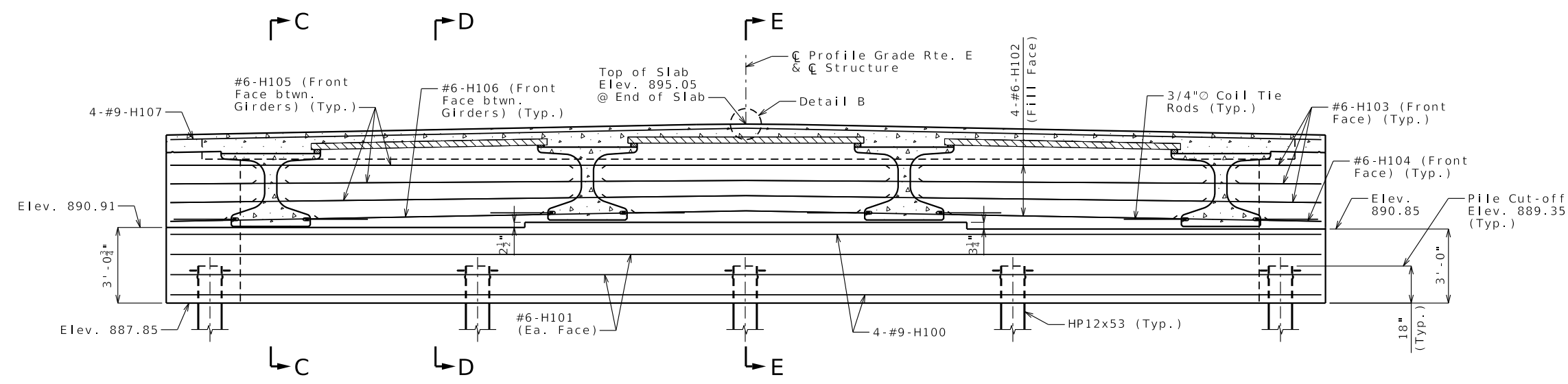
DATE PREPARED
12-DEC-2024
ROUTE STATE
E MO
DISTRICT SHEET NO.
BR 5
COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A9375

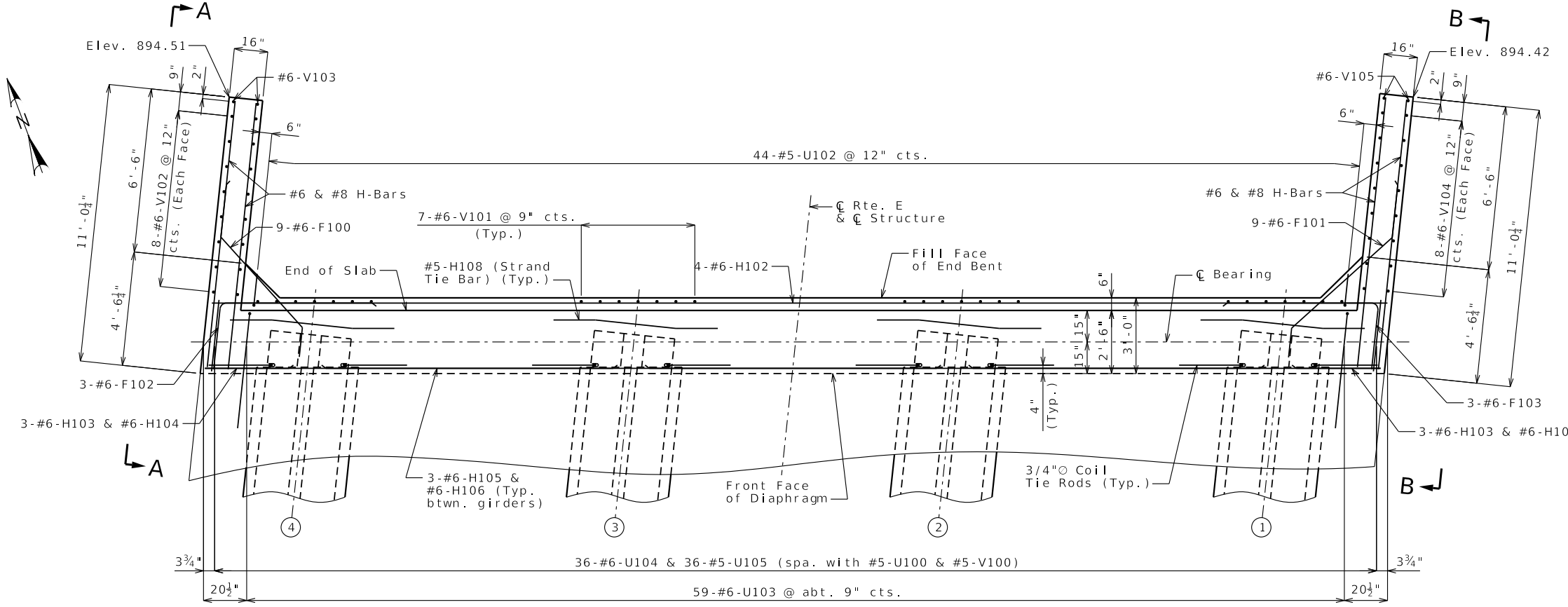
DATE	DESCRIPTION

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

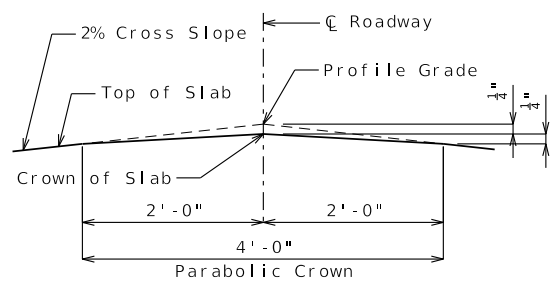
Jacobs
JACOBS ENGINEERING GROUP
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY
#60704



SECTION NEAR END BENT



PART PLAN
#9-H107 bars not shown for clarity.



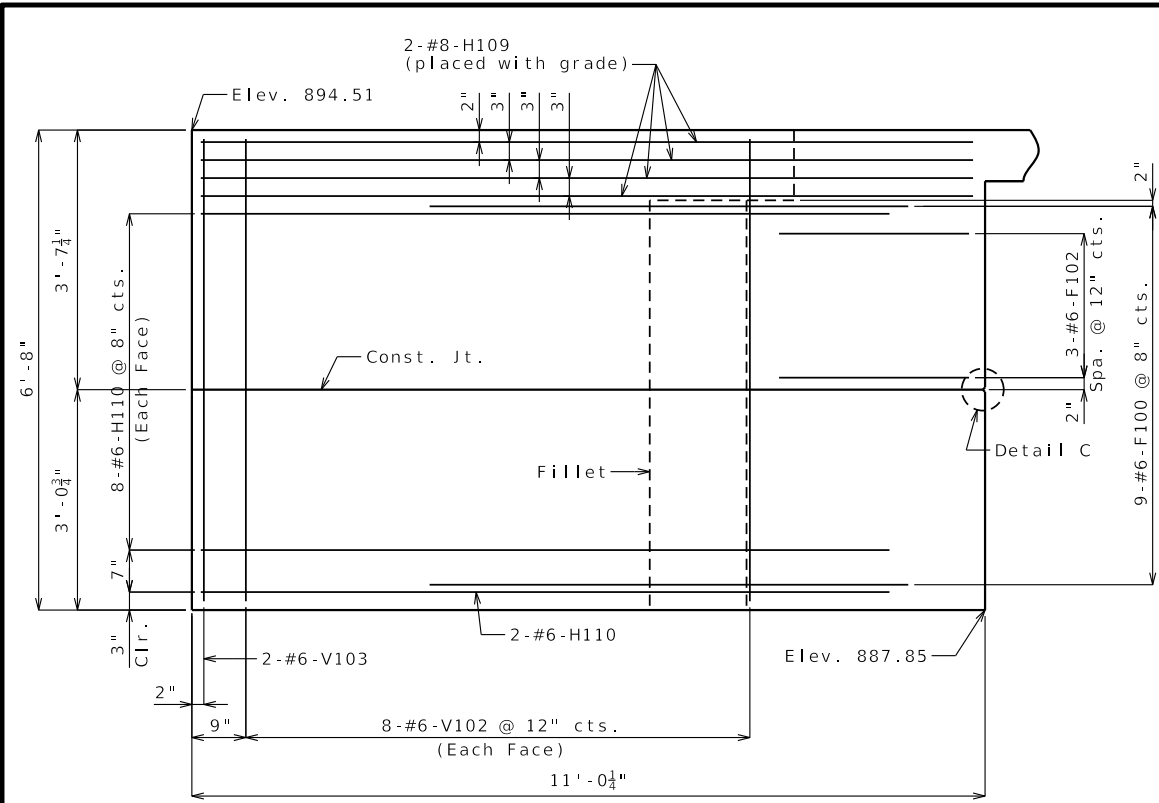
DETAIL B

DETAILS OF END BENT NO. 1

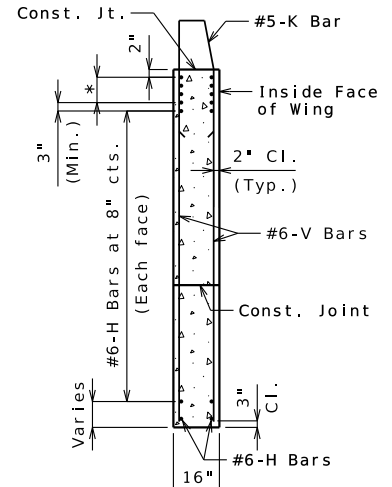
Notes:

- For details of End Bent No. 1 not shown, see Sheets No. 4 & 6.
- For Elevations A-A, B-B & Sections C-C, D-D & E-E, see Sheet No. 6.
- For location of Coil Tie Rods and #5-H108 (Strand Tie Bar), see Sheets No. 13 & 14.
- The #6-F100 and #6-F101 bars shall be bent in the field to clear girders if required.
- The U bars shall be placed parallel to centerline of roadway.
- All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
- Strands at end of the girders shall be field bent or, if necessary, cut in field to maintain 1 1/2" minimum clearance to fill face of end bent.

Detailed Aug. 2024
Checked Sep. 2024

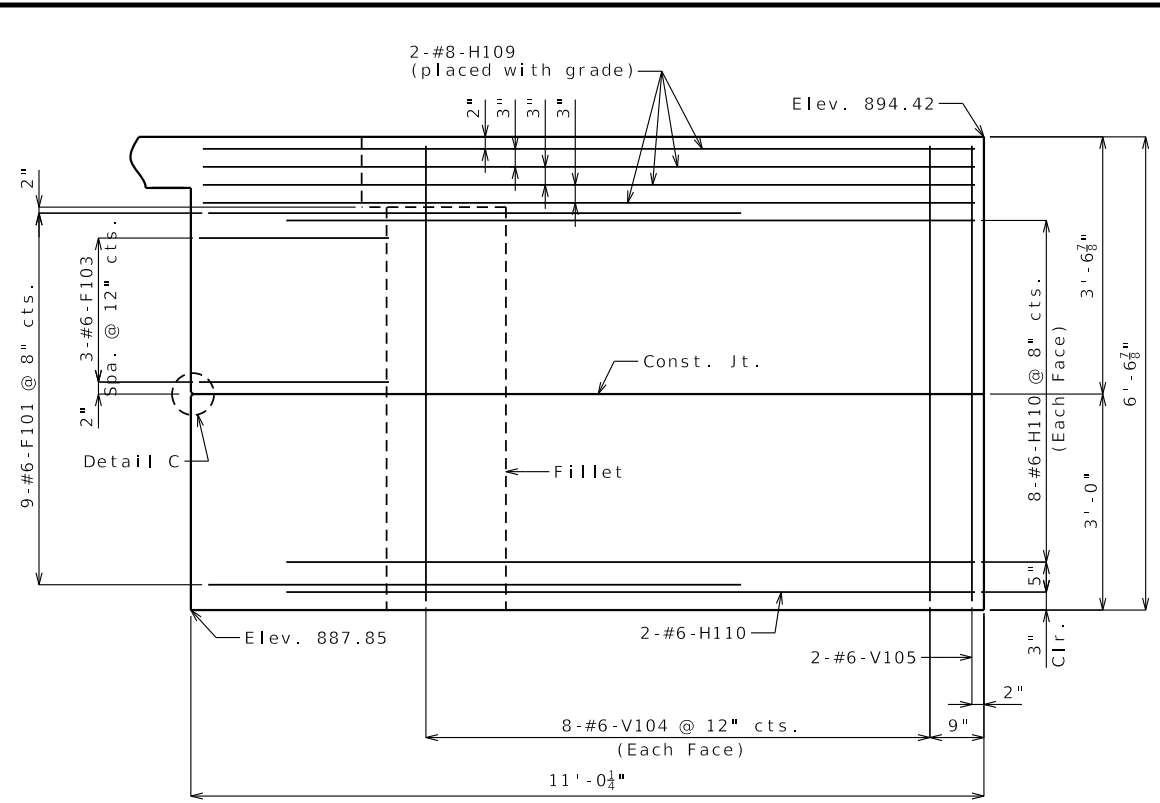


ELEVATION A-A

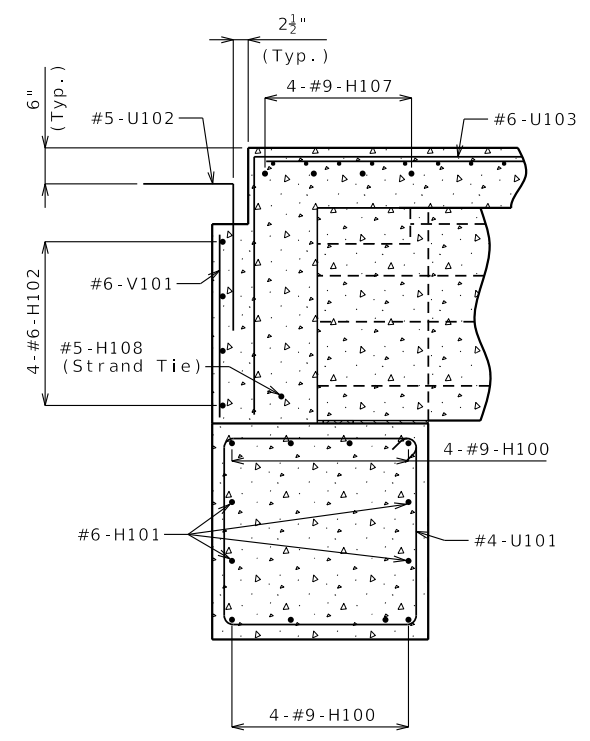


TYPICAL SECTION THRU WING

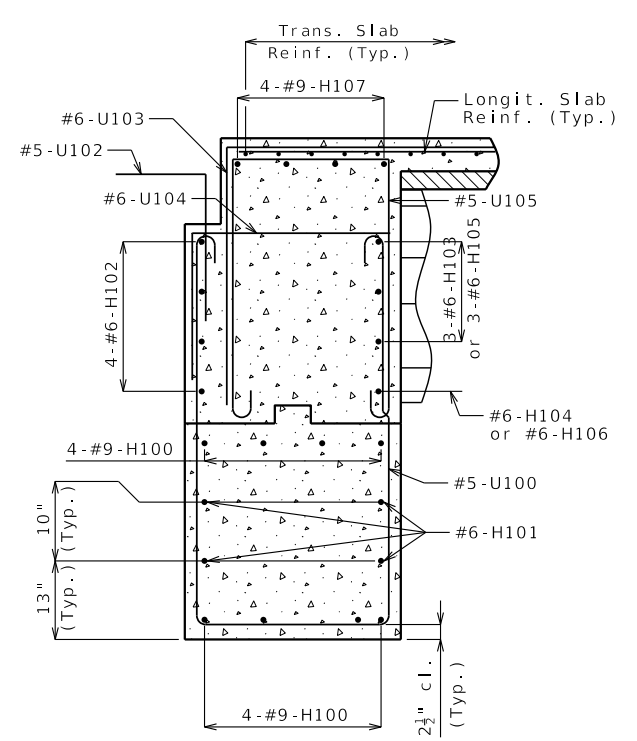
* #8-H Bars at 3\"/>



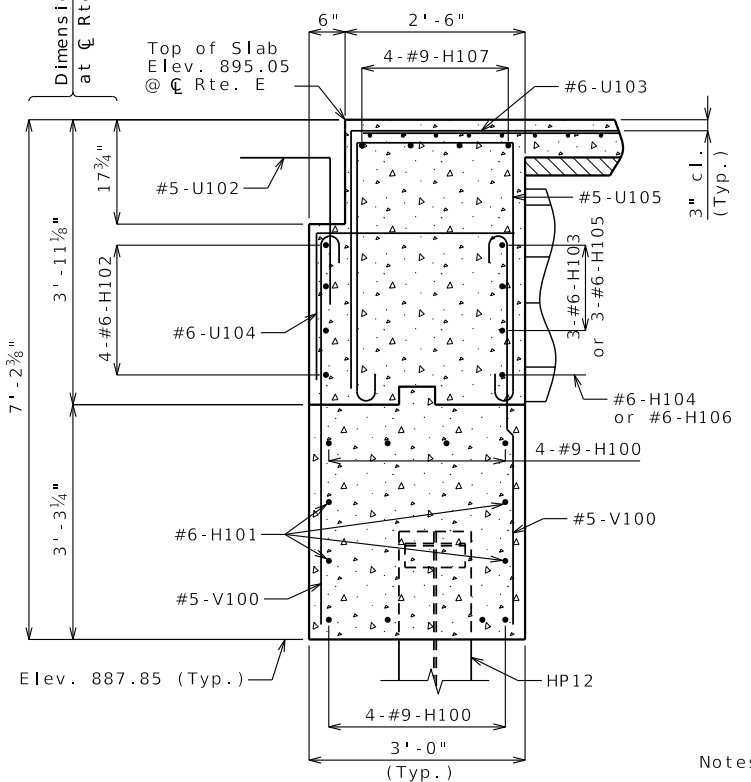
ELEVATION VIEW B-B



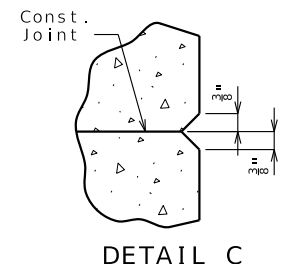
SECTION C-C



SECTION D-D



SECTION E-E



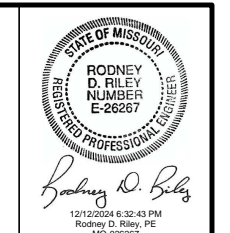
DETAIL C

Notes:
 For location of Elevations A-A & B-B, see Sheet No. 5.
 For location of Sections C-C, D-D & E-E, see Sheet No. 5.
 For details of End Bent No. 1 not shown, see Sheet No. 4 & 5.
 For reinforcement of the barrier, see Sheet No. 23.

DETAILS OF END BENT NO. 1

Detailed Aug. 2024
 Checked Sep. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 6 of 31



DATE PREPARED
 12-DEC-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
BR	6

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9375

DATE	DESCRIPTION

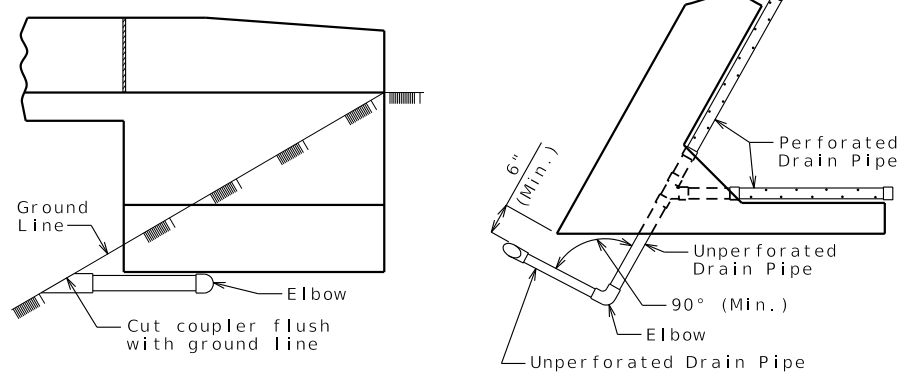
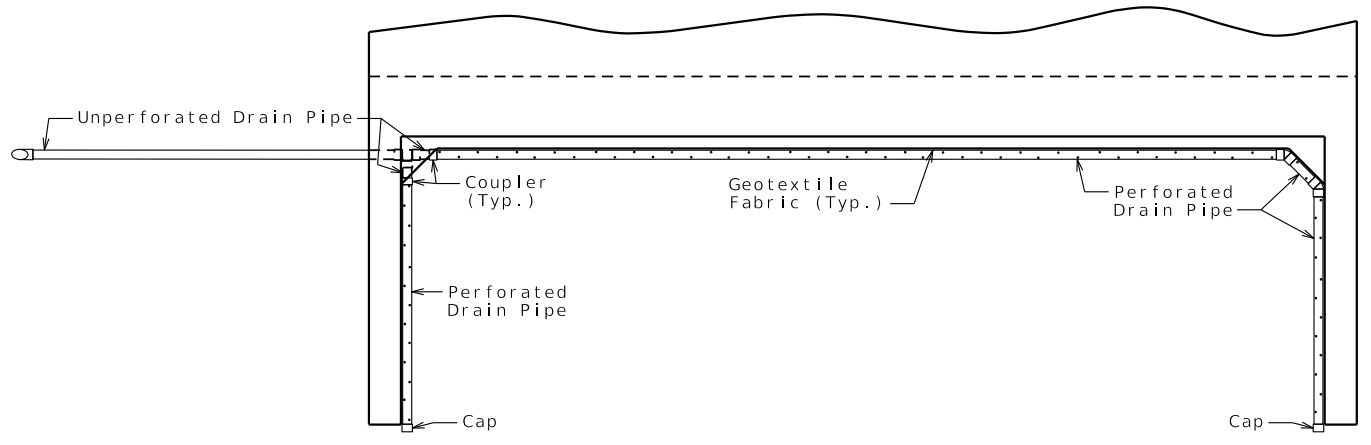
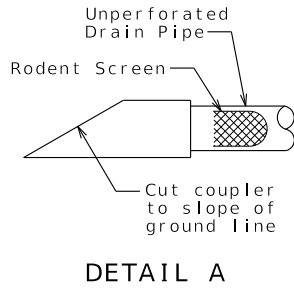
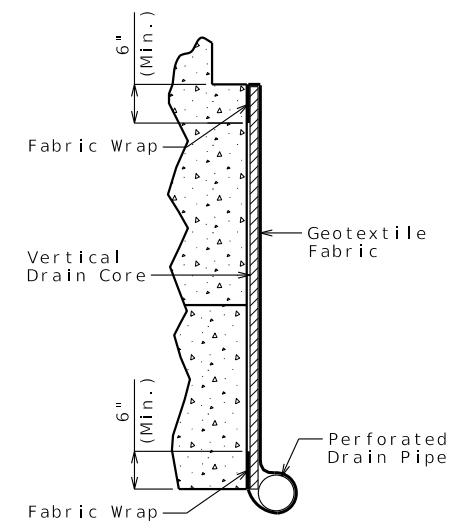
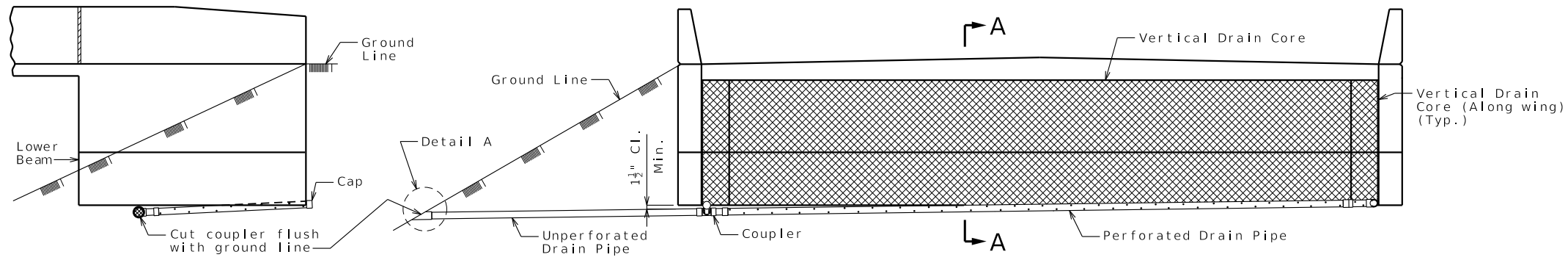
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105 WEST CAPITOL
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 1-888-ASK-MODOT (1-888-275-6636)

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REV.



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.



RODNEY D. RILEY
NUMBER E-26267
12/12/2024 8:32:44 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
BR 7

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

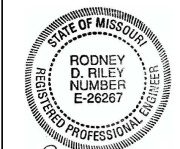
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
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RODNEY D. RILEY
 LICENSE NUMBER E-26267
 MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED
 12-DEC-2024
 ROUTE E STATE MO
 DISTRICT BR SHEET NO. 8
 COUNTY MONTGOMERY
 JOB NO. J2S3439
 CONTRACT ID.

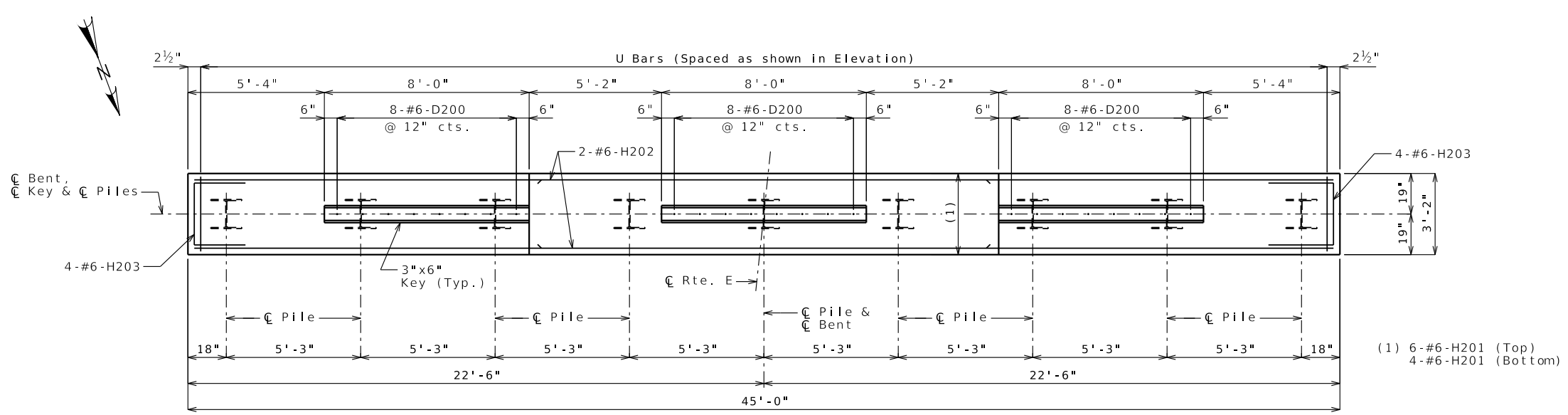
PROJECT NO.
 BRIDGE NO. A9375

DATE	DESCRIPTION

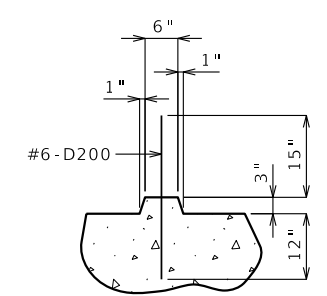
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 PHONE: (314) 385-4000
 CERTIFICATE OF AUTHORITY #00704

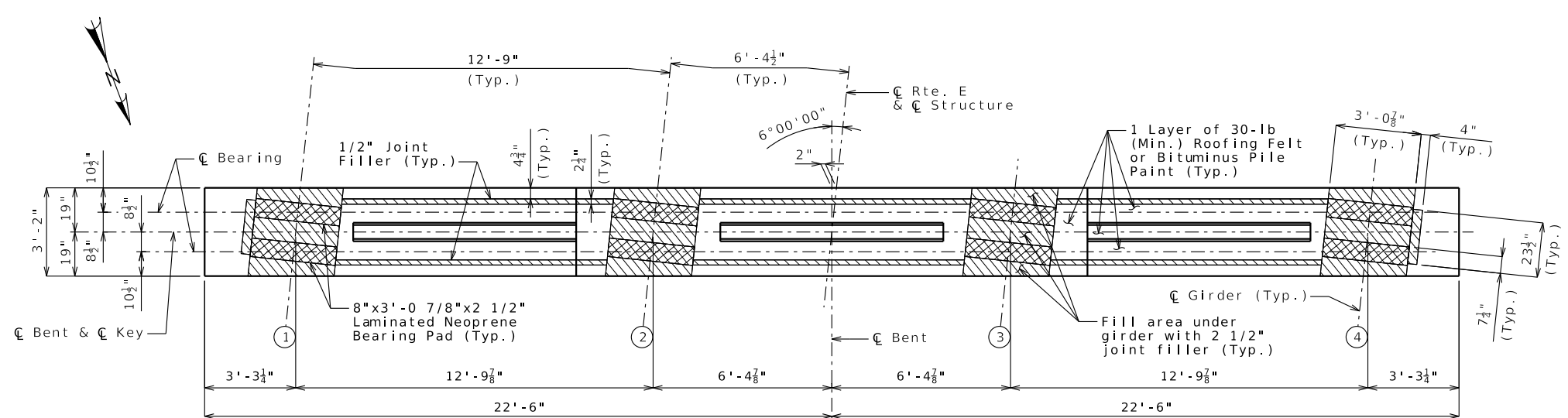


PLAN SHOWING REINFORCEMENT



SECTION THRU KEY

(1) 6-#6-H201 (Top)
 4-#6-H201 (Bottom)

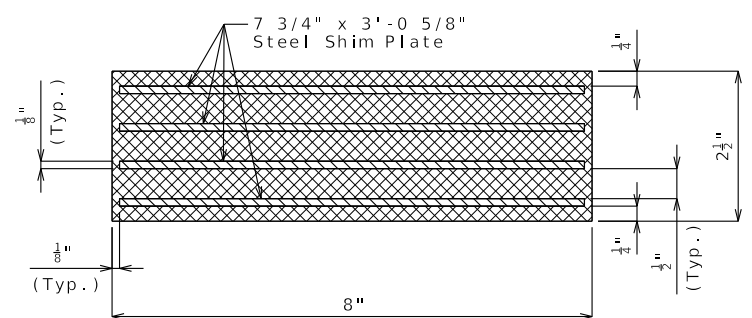


PLAN OF BEAM

General Notes:
 Work this sheet with Sheets No. 9, & 18.

Bar marks shown (200 series) are for Intermediate Bent No. 2.
 Bar marks for Intermediate Bent 3 are 300 series.
 Bar marks for Intermediate Bent 4 are 400 series.

For steps 2 inches or more, use 2 1/4" x 1/2" joint filler up vertical face.
 All reinforcing shall be field adjusted to clear piles by at least 1 1/2".



LAMINATED NEOPRENE BEARING PAD

Substructure Quantity Table		Bent 2	Bent 3	Bent 4
Item	Quantity	Quantity	Quantity	Quantity
Class 1 Excavation	cu. yard	20	20	20
Galvanized Structural Steel Pile (14 in.)	linear foot	702	711	702
Pipe Point Reinforcement	each	9	9	9
Dynamic Pile Testing	each	1	1	1
Class B Concrete (Substructure)	cu. yard	83.1	79.7	83.1
Reinforcing Steel (Epoxy coated)	pound	4,950	4,820	4,950

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

DETAILS OF INTERMEDIATE BENTS NO. 2, 3, & 4

Detailed Sep. 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 8 of 31



RODNEY D. RILEY
 PROFESSIONAL ENGINEER
 STATE OF MISSOURI
 LICENSE NO. E-26267

DATE PREPARED
12-DEC-2024
 ROUTE STATE
E MO
 DISTRICT SHEET NO.
BR 9
 COUNTY
MONTGOMERY
 JOB NO.
J2S3439
 CONTRACT ID.

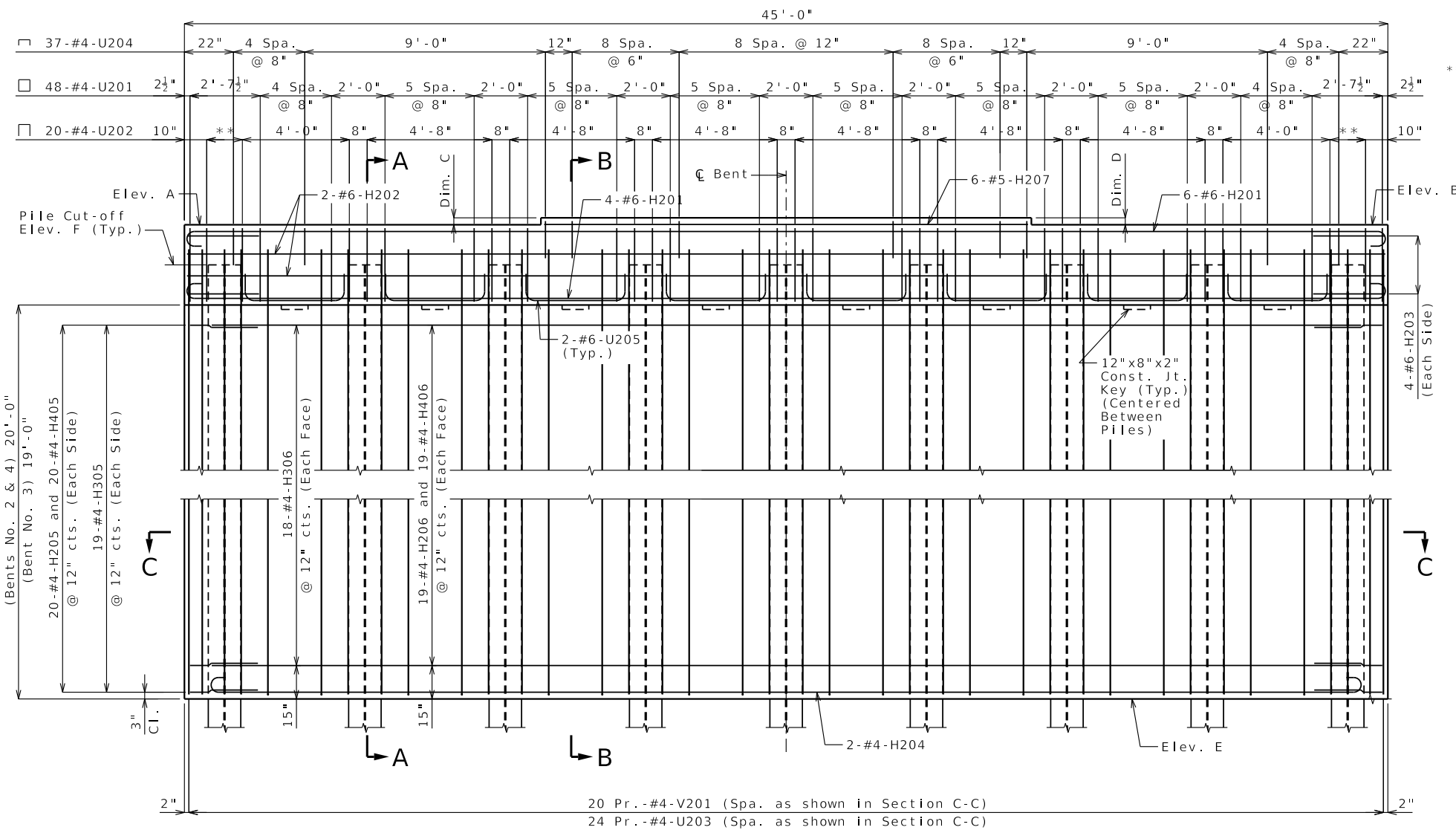
PROJECT NO.
 BRIDGE NO.
A9375

DATE	DESCRIPTION

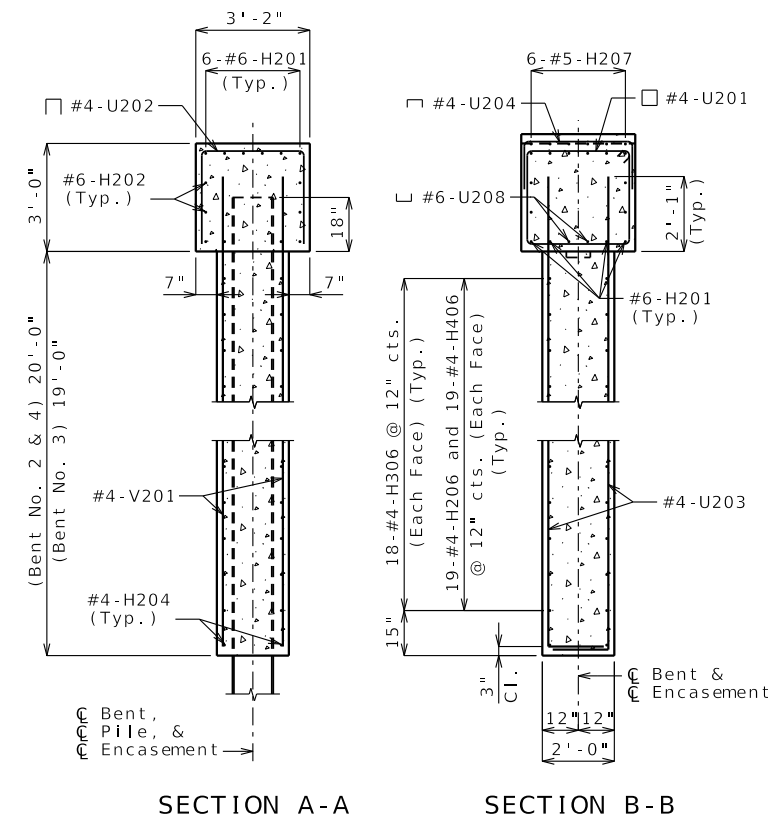
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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 CERTIFICATE NO. AUTHORITY
 #00704

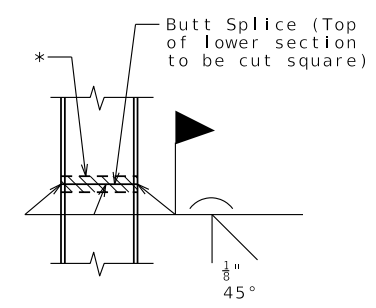


ELEVATION



SECTION A-A SECTION B-B

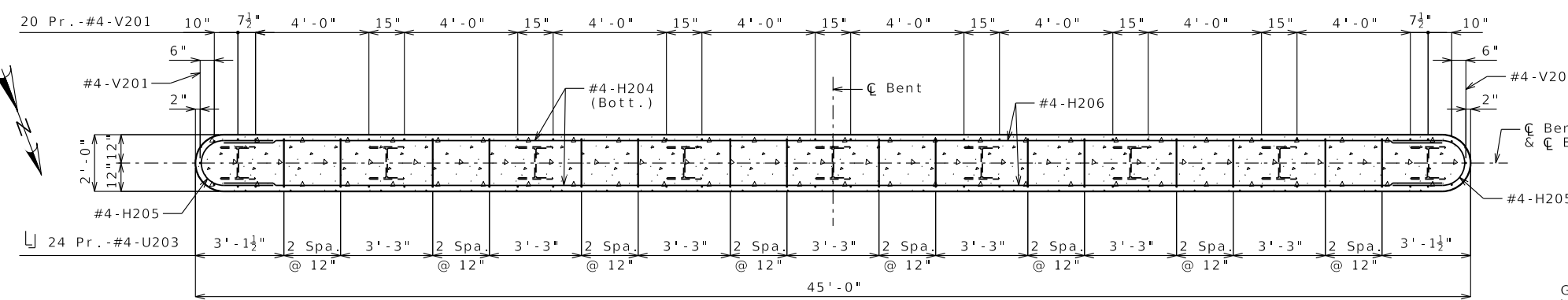
Seat Elevations						
Bent No.	Elev. A	Elev. B	Dim. C	Dim. D	Elev. E	Elev. F
Int. Bent No. 2	891.17	-	3 1/4"	2 3/4"	868.17	889.67
Int. Bent No. 3	891.54	-	3"	3"	869.54	890.04
Int. Bent No. 4	-	891.29	3"	3 3/8"	868.29	889.79



STEEL PILE SPLICE
 (If required)

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

General Notes:
 Work this sheet with Sheets No. 8, & 18.



SECTION C-C

DETAILS OF INTERMEDIATE BENTS NO. 2, 3, & 4

Detailed Oct. 2024
 Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 9 of 31



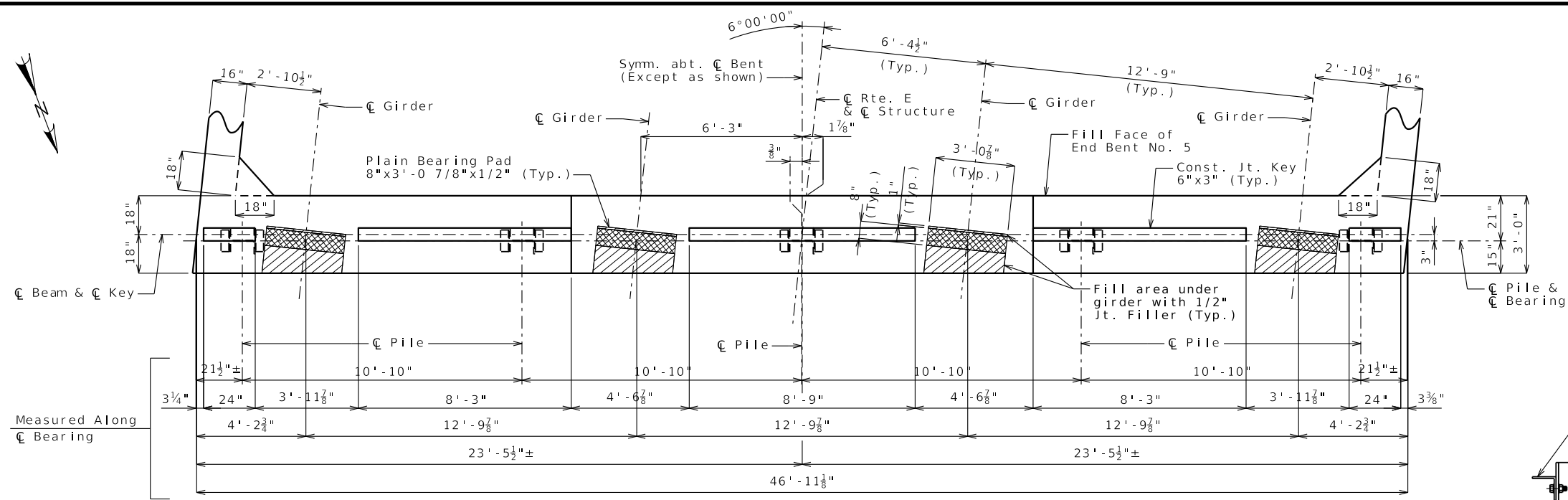
RODNEY D. RILEY
PROFESSIONAL ENGINEER
12/12/2024 8:32:46 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024
ROUTE STATE
E MO
DISTRICT SHEET NO.
BR 10
COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

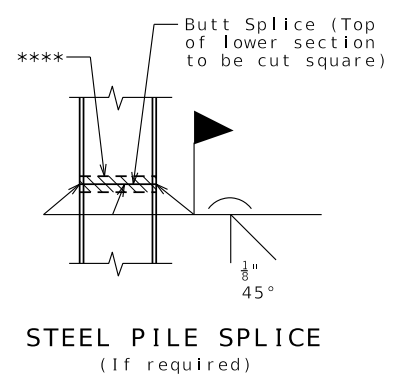
PROJECT NO.
BRIDGE NO.
A9375

DESCRIPTION	DATE

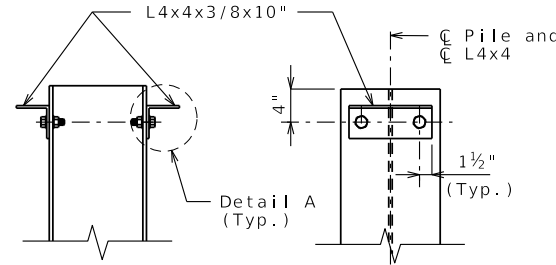
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



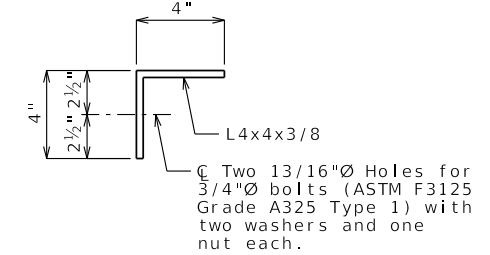
PLAN OF BEAM SHOWING DIMENSIONS



STEEL PILE SPLICE
(If required)

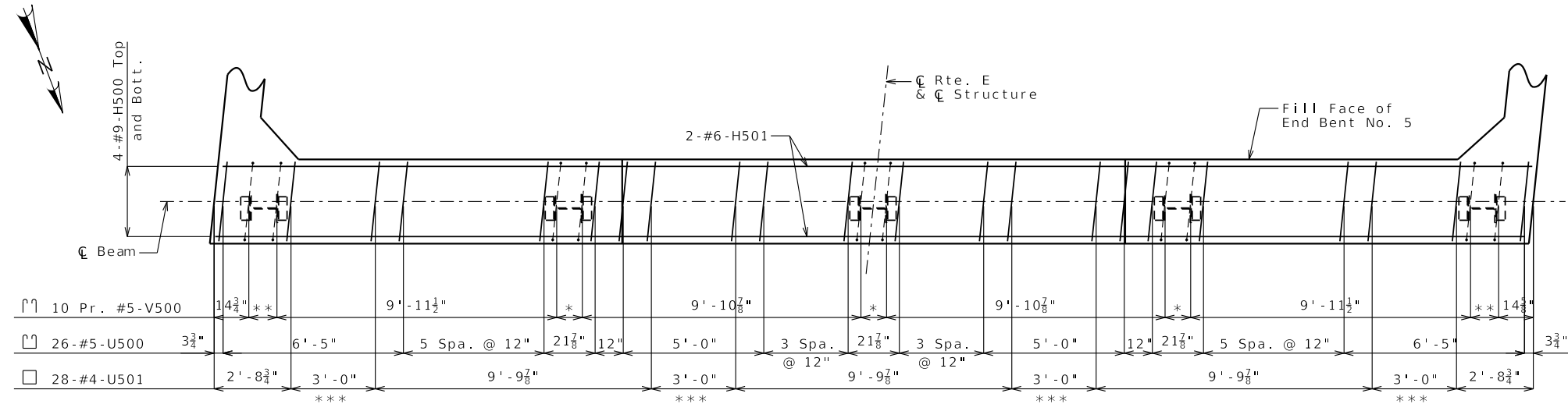


DETAILS OF HP PILE ANCHORS



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.

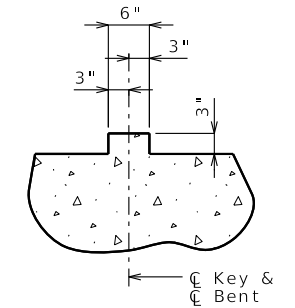


PLAN OF BEAM SHOWING REINFORCEMENT

* 11"
** 12"
*** 6 Spa. @ 6"

Substructure Quantity Table for Bent No. 5		
Item	Quantity	
Galvanized Structural Steel Piles (12 in.)	linear foot	275
Pile Point Reinforcement	each	5
Dynamic Pile Testing	each	1
Class B Concrete (Substructure)	cu. yard	18.9

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



SECTION THRU KEY

DETAILS OF END BENT NO. 5

General Notes:
For details of End Bent No. 5 not shown, see Sheets No. 11 & 12.
All U-bars and Pr. V-bars shall be placed parallel to C of roadway.
All reinforcing bars shall be field adjusted to clear piles by at least 1 1/2".
For details of vertical drain at end bents, see Sheet No. 7.
For details of bridge approach slab, see Sheet No. 25.
Reinforcement of wingwall not shown for clarity.

Detailed Aug. 2024
Checked Sep. 2024



RODNEY D. RILEY
LICENSE NUMBER
E-26267
12/12/2024 8:32:47 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024

ROUTE STATE
E MO
DISTRICT SHEET NO.
BR 11

COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

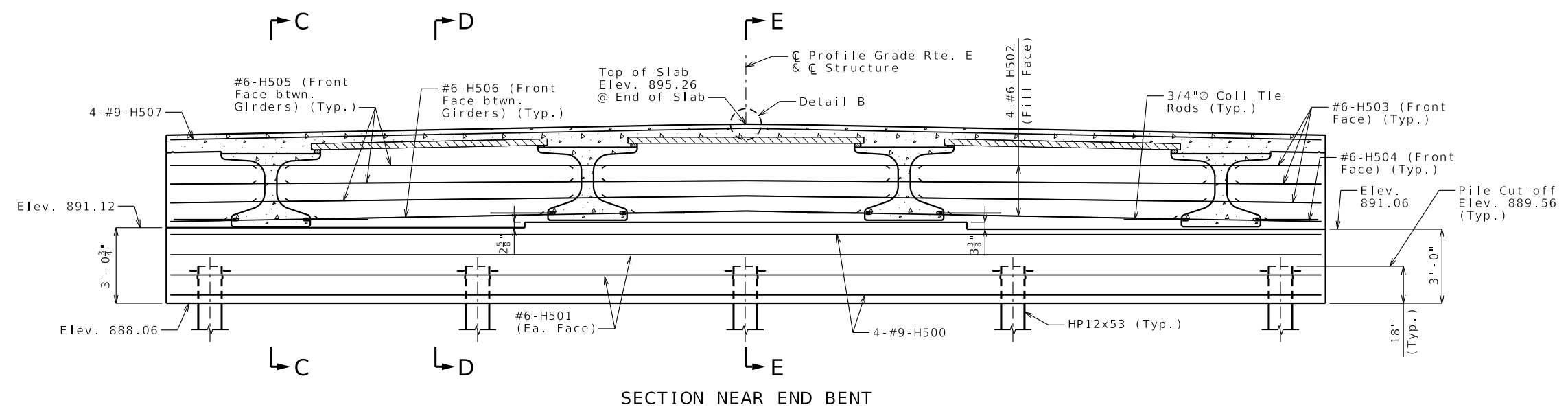
PROJECT NO.

BRIDGE NO.
A9375

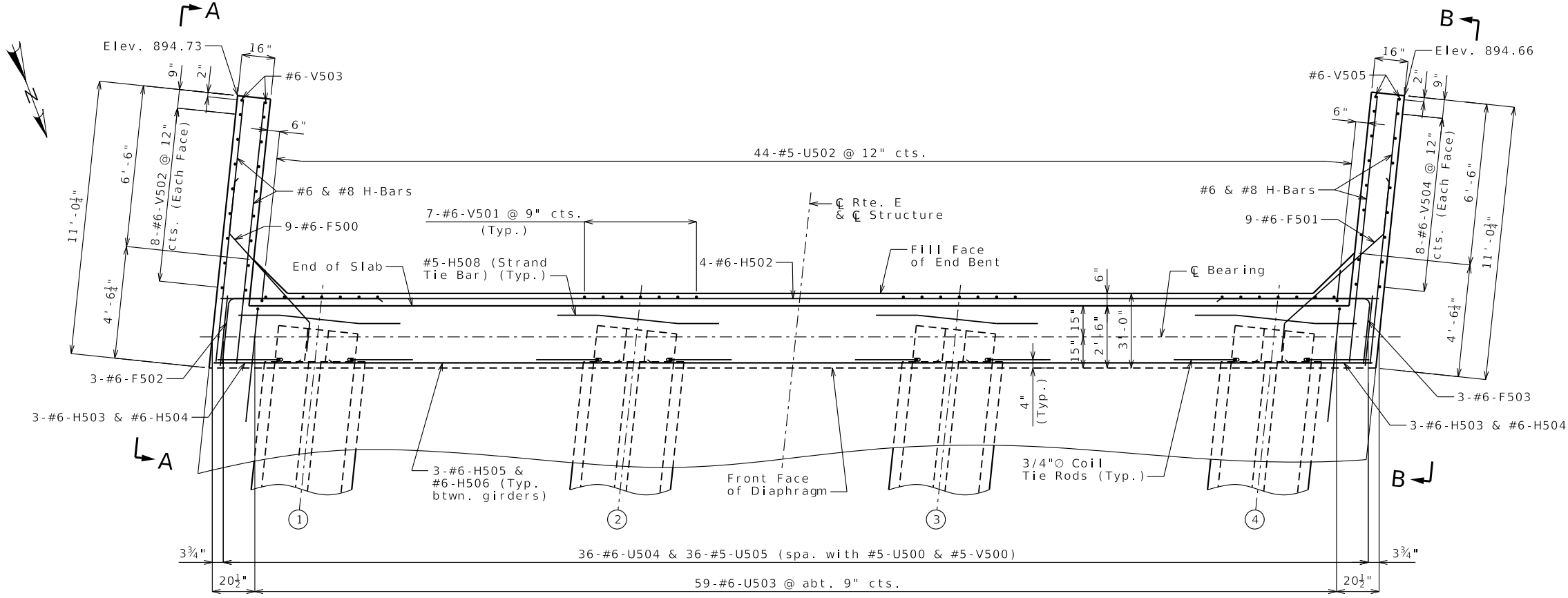
DATE	DESCRIPTION

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

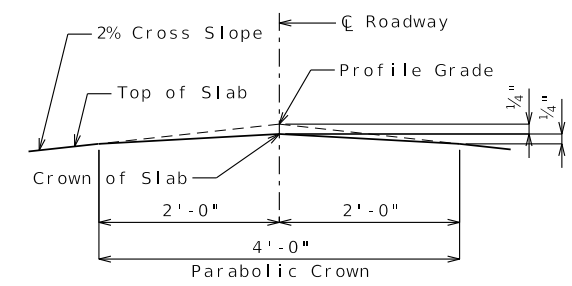
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ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATE AUTHORITY
#00704



SECTION NEAR END BENT



PART PLAN
#9-H507 bars not shown for clarity.



DETAIL B

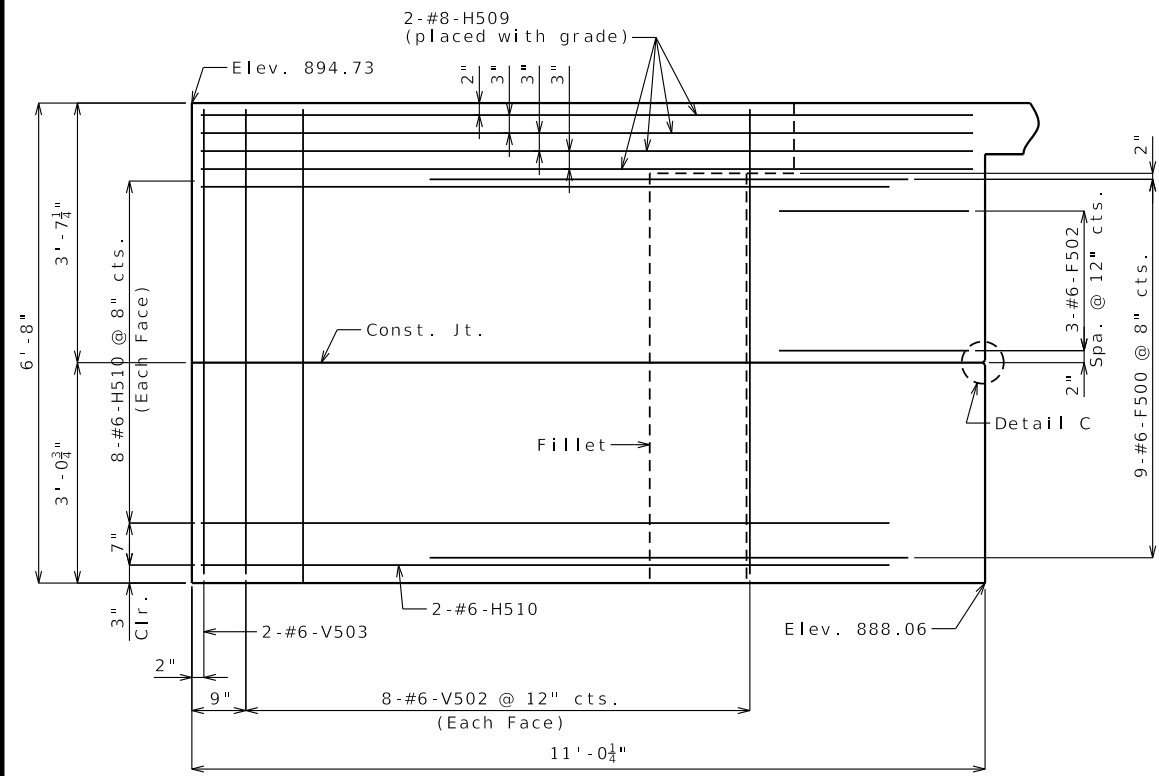
DETAILS OF END BENT NO. 5

Notes:

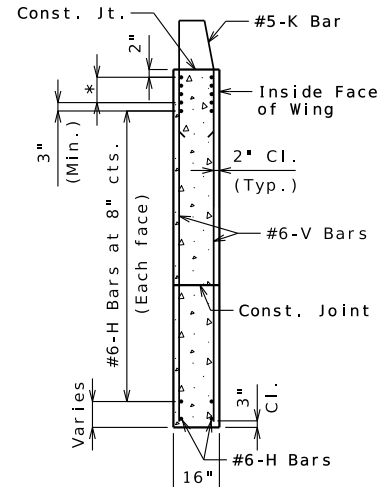
- For details of End Bent No. 5 not shown, see Sheets No. 10 & 12.
- For Elevations A-A, B-B & Sections C-C, D-D & E-E, see Sheet No. 12.
- For location of Coil Tie Rods and #5-H508 (Strand Tie Bar), see Sheets No. 13 & 14.
- The #6-F500 and #6-F501 bars shall be bent in the field to clear girders if required.
- The U bars shall be placed parallel to centerline of roadway.
- All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
- Strands at end of girders shall be field bent or, if necessary, cut in field to maintain 1 1/2" minimum clearance to fill face of end bent.

Detailed Aug. 2024
Checked Sep. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 11 of 31

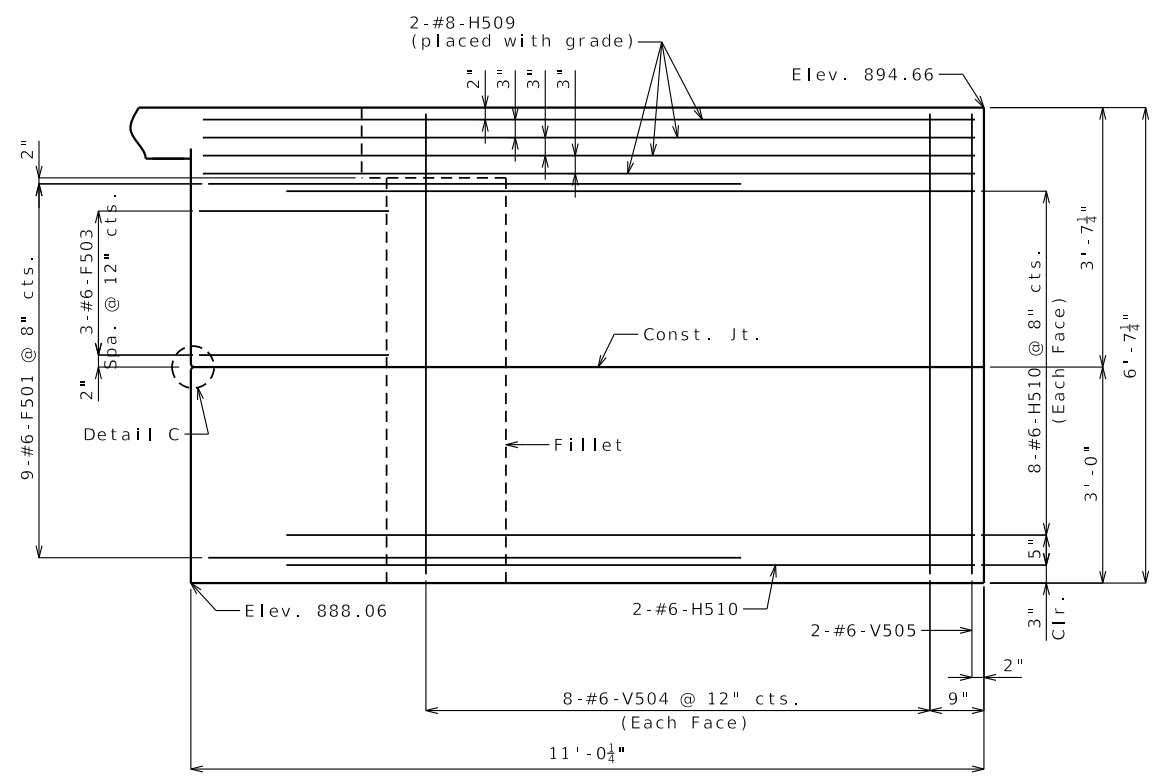


ELEVATION A-A

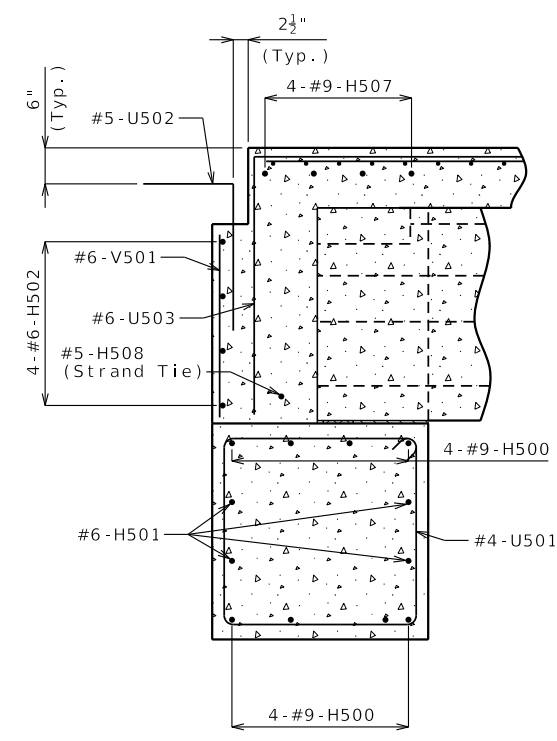


TYPICAL SECTION THRU WING

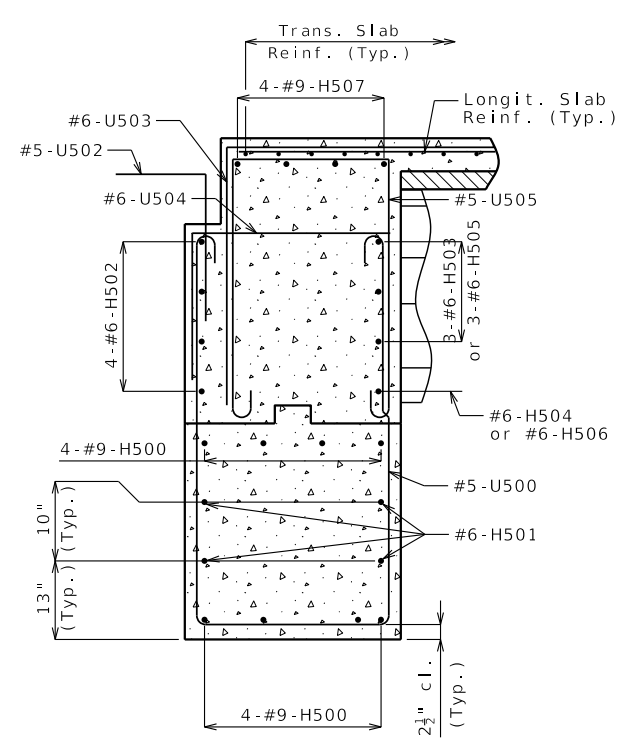
* #8-H Bars at 3" cts. (Each face) (Place with grade)



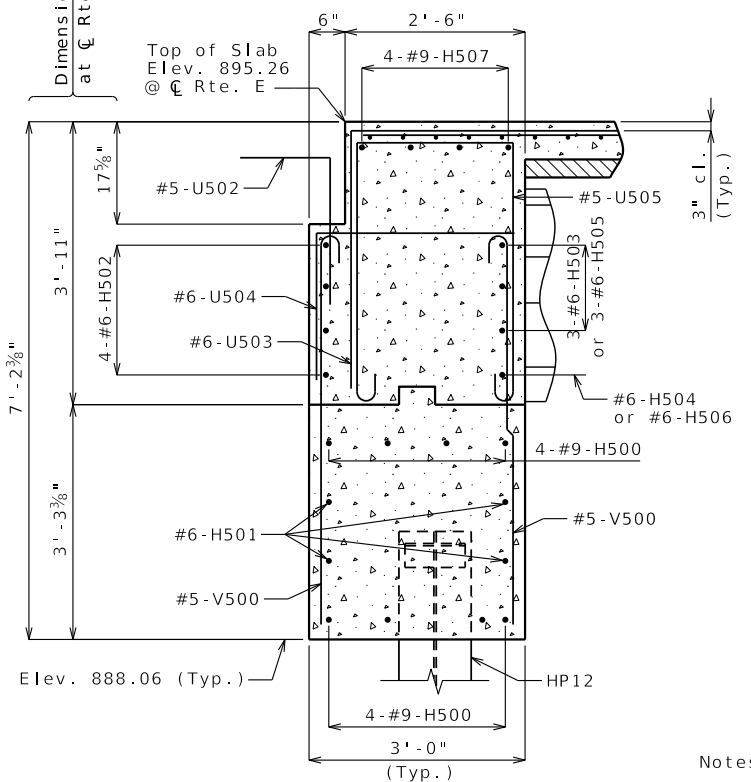
ELEVATION B-B



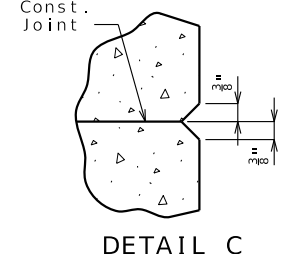
SECTION C-C



SECTION D-D



SECTION E-E



DETAIL C

Notes:
 For location of Elevations A-A & B-B, see Sheet No. 11.
 For location of Sections C-C, D-D & E-E, see Sheet No. 11.
 For details of End Bent No. 5 not shown, see Sheet No. 10 & 11.
 For reinforcement of the barrier, see Sheet No. 23.

DETAILS OF END BENT NO. 5

Detailed Aug. 2024
 Checked Sep. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 12 of 31

RODNEY D. RILEY
 LICENSE NUMBER E-26267
 STATE OF MISSOURI
 PROFESSIONAL ENGINEER

DATE PREPARED: 12-DEC-2024
 ROUTE: E
 STATE: MO
 DISTRICT: BR
 SHEET NO.: 12
 COUNTY: MONTGOMERY
 JOB NO.: J2S3439
 CONTRACT ID:
 PROJECT NO.:
 BRIDGE NO.: A9375

DATE	DESCRIPTION

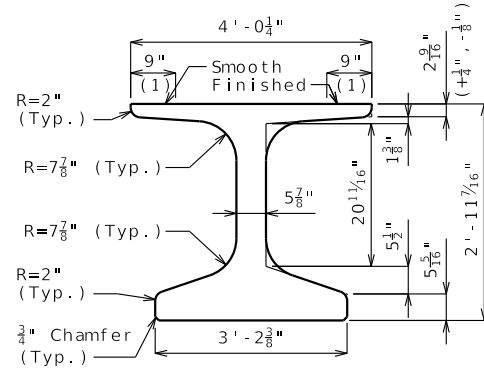
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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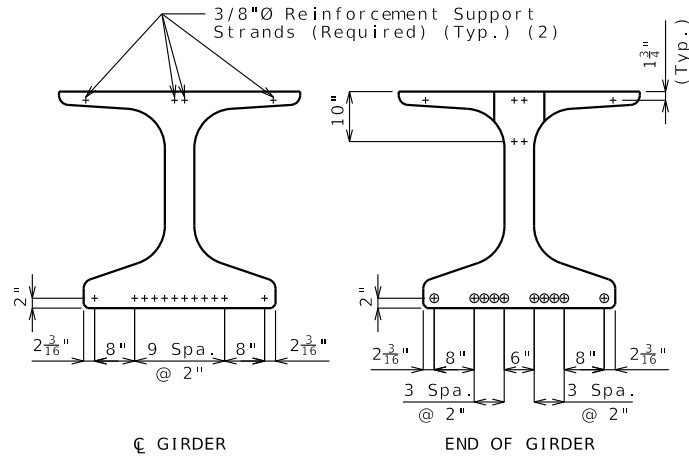
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 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 385-4000
 CERTIFICATE NO. #00704

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about \bar{C} Girder. May be moved laterally in pairs.

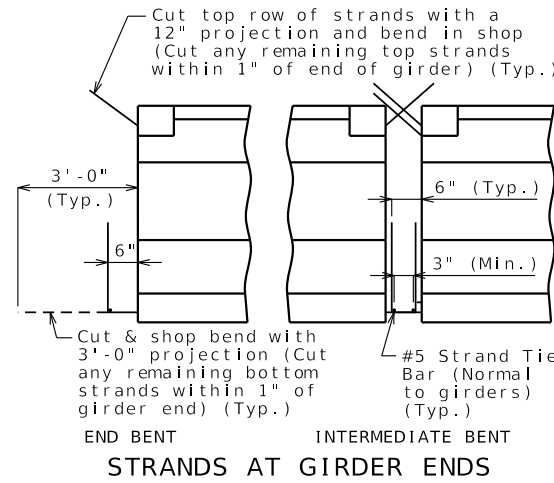


DIMENSIONS

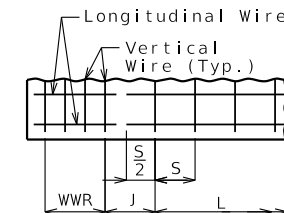


\bar{C} GIRDER STRAND ARRANGEMENT

+ Indicates prestressing strand. \circ Indicates cut & shop bend with 3'-0" projection.



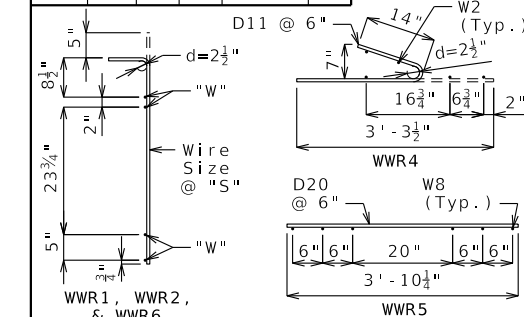
END BENT INTERMEDIATE BENT STRANDS AT GIRDER ENDS



WELDED WIRE PLACEMENT

S = Vertical wire spacing
L = Length of WWR mats
J = Distance between WWR mats

Bill of Reinforcing Steel				
Bars Each Girder				Bending Diagrams
No.	Size/Mark	Length	Shape	
66	3 G1	2'-10"	8	
2	4 G3	3'-10 1/2"	20	
2	4 G4	2'-3"	20	
2	4 G5	2'-8 3/4"	20	
Welded Wire Each Girder				
Mark	Size	S	W	
WWR1	D31	4"	W12 6'-0"	
WWR2	D31	8"	W12 29'-4"	
WWR6	D31	2"	W12 16"	2 1/2"



All dimensions are out to out.
Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.
Minimum clearance to reinforcing shall be 1", unless otherwise shown.

All bar reinforcement shall be Grade 60.
WWR shall not be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans. Half no. of G3, G4, and G5 not required for ext. girders of end spans.

General Notes:
Concrete for prestressed beams shall be Class A-1 with $f'c = 8000$ psi and $f'ci = 6500$ psi.

Use 12 strands, 0.6" diameter Grade 270, with an initial prestress force of 527 kips.
Pretensioned members shall be in accordance with Sec 1029.

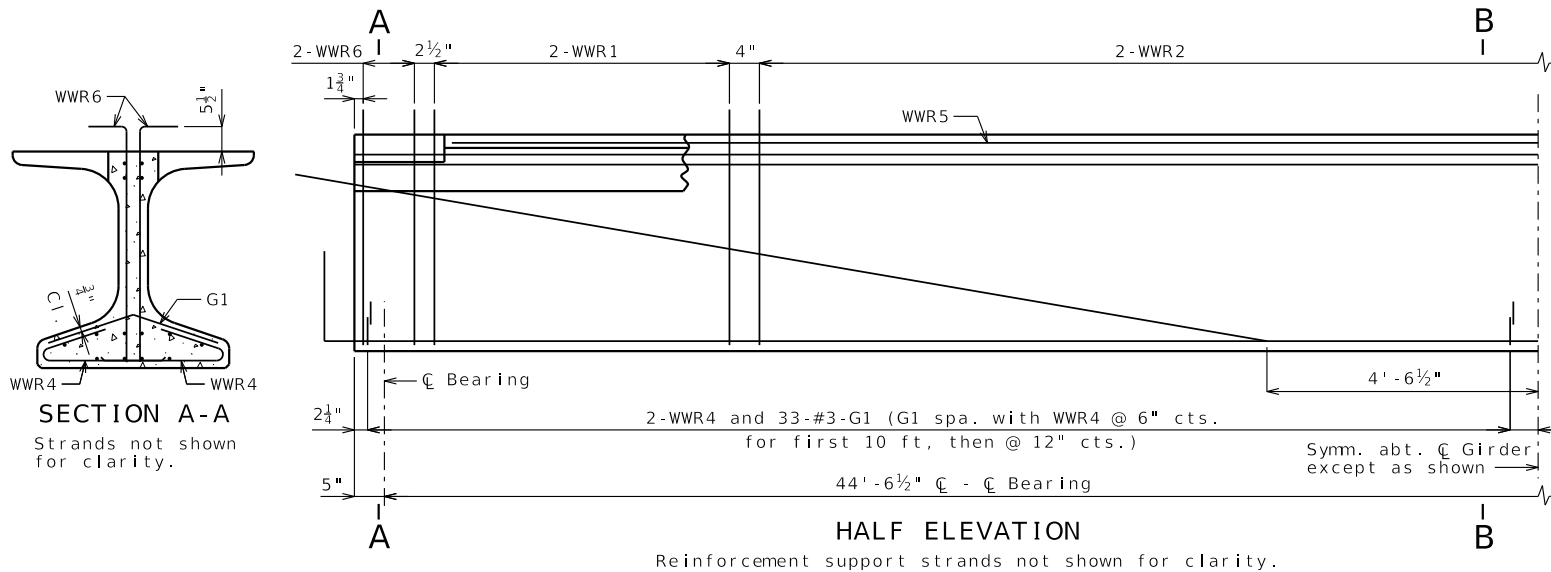
Fabricator shall be responsible for location and design of lifting devices.
Exterior and interior girders are the same except: coil ties, top flange blockout, application of bond breaker.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 17.

For location of coil ties at concrete diaphragms and integral bents, see Sheets No. 5, 11, and 18.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

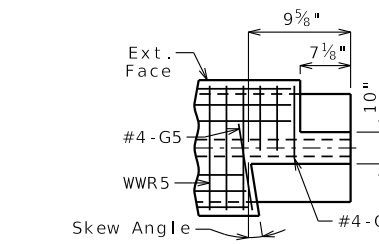


HALF ELEVATION

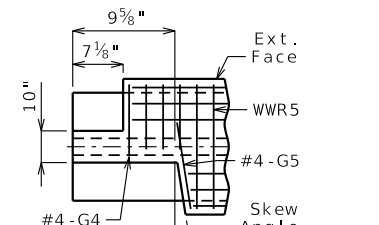
Reinforcement support strands not shown for clarity.

SECTION A-A
Strands not shown for clarity.

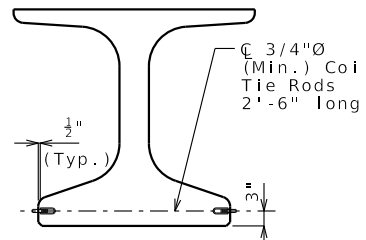
SECTION B-B
Strands not shown for clarity.



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
Rotate 180° for right ext.

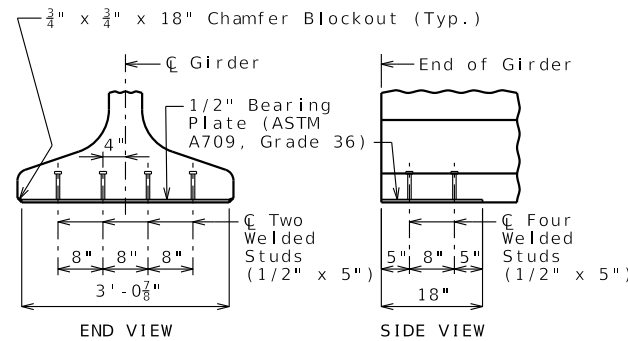


INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT
TOP FLANGE BLOCKOUT



CLOSED DIAPHRAGMS AND INTEGRAL BENTS
COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.



BEARING PLATE

NU-GIRDERS - SPANS (1-2) AND (4-5)

Detailed July 2024
Checked Sep. 2024

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

Sheet No. 13 of 31



RODNEY D. RILEY
LICENSED PROFESSIONAL ENGINEER
12/12/2024 8:32:48 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024
ROUTE STATE
E MO
DISTRICT SHEET NO.
BR 13

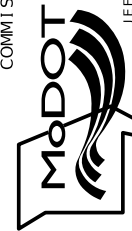
COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A9375

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

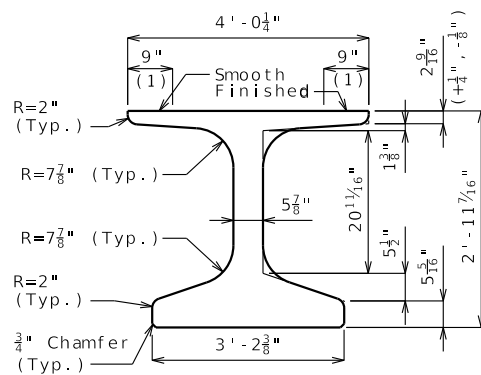


105 WEST CAPITOL
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1001 HIGHLANDS PLAZA, DR. WEST, SUITE 400
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PHONE: (314) 385-4000
CERTIFICATION AUTHORITY
#00704

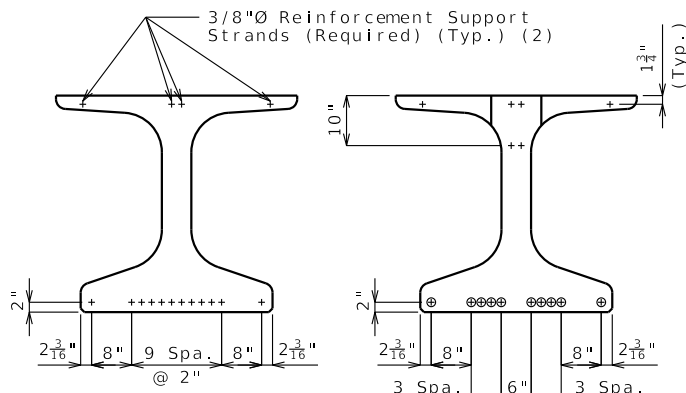
REV.

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.



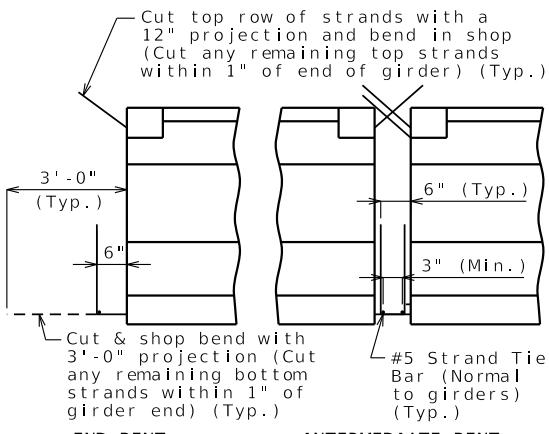
DIMENSIONS

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about C Girder. May be moved laterally in pairs.

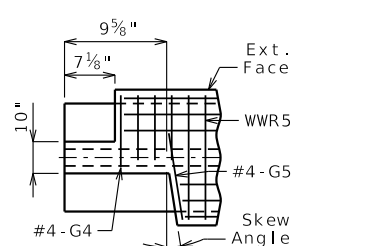
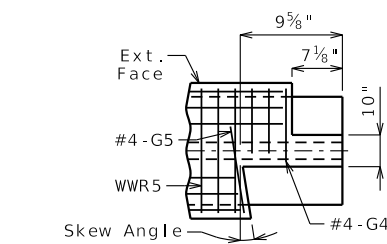


STRAND ARRANGEMENT

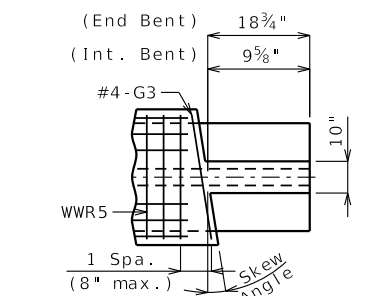
+ Indicates prestressing strand. o Indicates cut & shop bend with 3'-0" projection.



STRANDS AT GIRDER ENDS



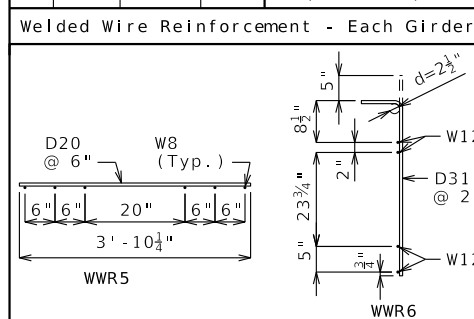
LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
ROTATE 180° FOR RIGHT EXT.



INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT
TOP FLANGE BLOCKOUT

Bill of Reinforcing Steel - Each Girder

No.	Size/Mark	Length	Shape
130	5 B1	4'-4"	115
150	4 D1	4'-0"	95
2	4 G3	3'-10 1/2"	20
2	4 G4	2'-3"	20
2	4 G5	2'-8 3/8"	20



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRS1 Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

All bar reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans. Half no. of G3, G4, and G5 not required for ext. girders of end spans.

General Notes:

Concrete for prestressed girders shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

Use 12 strands, 0.6"Ø Grade 270, with an initial prestress force of 527 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

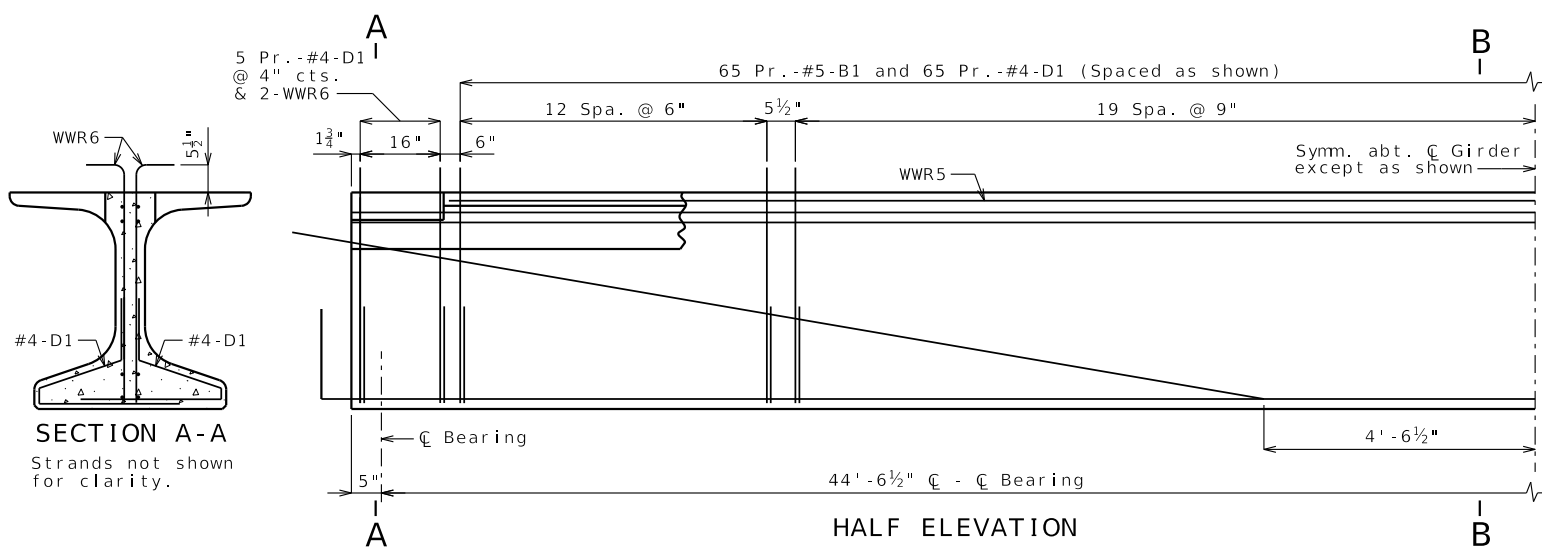
Exterior and interior girders are the same except: coil ties, top flange blockout and application of bond breaker.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 17.

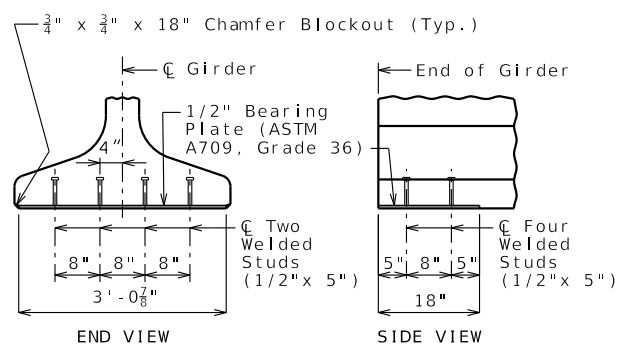
For location of coil ties at concrete diaphragms and integral bents, see Sheets No. 5, 11 and 18.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

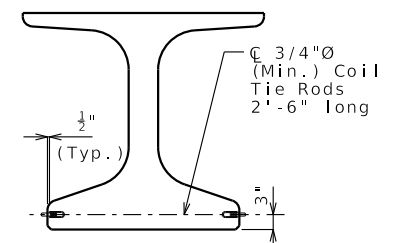


HALF ELEVATION

Reinforcement support strands not shown for clarity.



BEARING PLATE



CLOSED DIAPHRAGMS AND INTEGRAL BENTS
COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.

NU-GIRDERS (ALTERNATE REINFORCEMENT) - SPANS (1-2) AND (4-5)

Detailed July 2024
Checked Sep. 2024

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

Sheet No. 14 of 31

RODNEY D. RILEY
NUMBER E-26267
12/12/2024 8:32:59 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024

ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
BR	14

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

DATE	DESCRIPTION

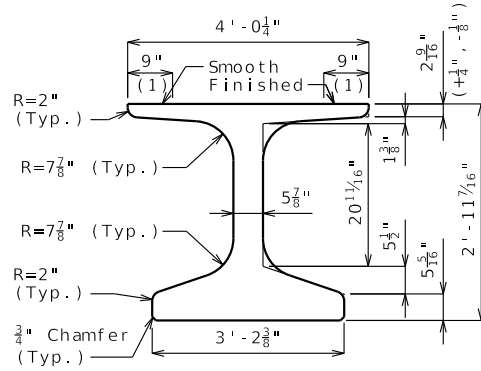
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

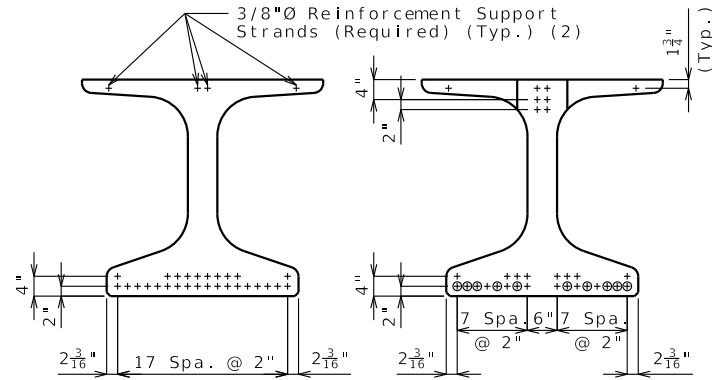
Jacobs
ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATE AUTHORITY #60704

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about \bar{C} Girder. May be moved laterally in pairs.

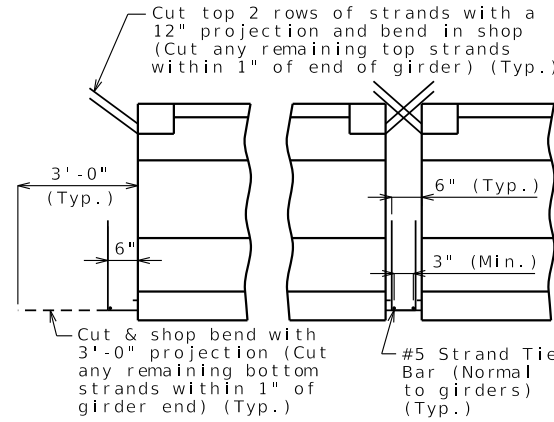


DIMENSIONS

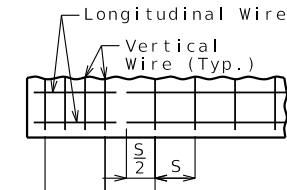


\bar{C} GIRDER
STRAND ARRANGEMENT

+ Indicates prestressing strand. ○ Indicates cut & shop bend with 3'-0" projection.



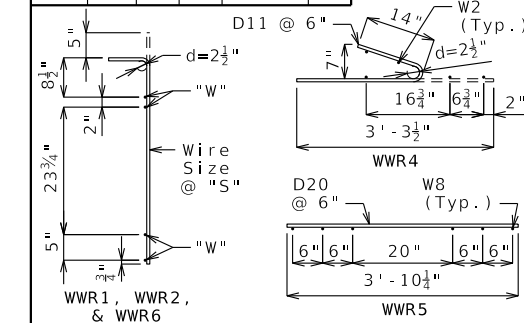
INTERMEDIATE BENT
STRANDS AT GIRDER ENDS



WELDED WIRE PLACEMENT

S = Vertical wire spacing
L = Length of WWR mats
J = Distance between WWR mats

Bill of Reinforcing Steel						
Bars Each Girder					Bending Diagrams	
No.	Size/Mark	Length	Shape			
90	3 G1	2'-10"	8			
2	4 G3	3'-10 1/2"	20			
2	4 G4	2'-3"	20			
2	4 G5	2'-8 3/4"	20			
Welded Wire Each Girder						
Mark	Size	S	W	L		
WWR1	D31	4"	W12	6'-0"		7 3/4"
WWR2	D31	8"	W12	52'-0"		--
WWR6	D31	2"	W12	16"	4"	



All dimensions are out to out.
Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1", unless otherwise shown.

All bar reinforcement shall be Grade 60.

WWR shall not be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans.

General Notes:
Concrete for prestressed beams shall be Class A-1 with $f'c = 8000$ psi and $f'ci = 6500$ psi.

Use 28 strands, 0.6"Ø Grade 270, with an initial prestress force of 1230 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

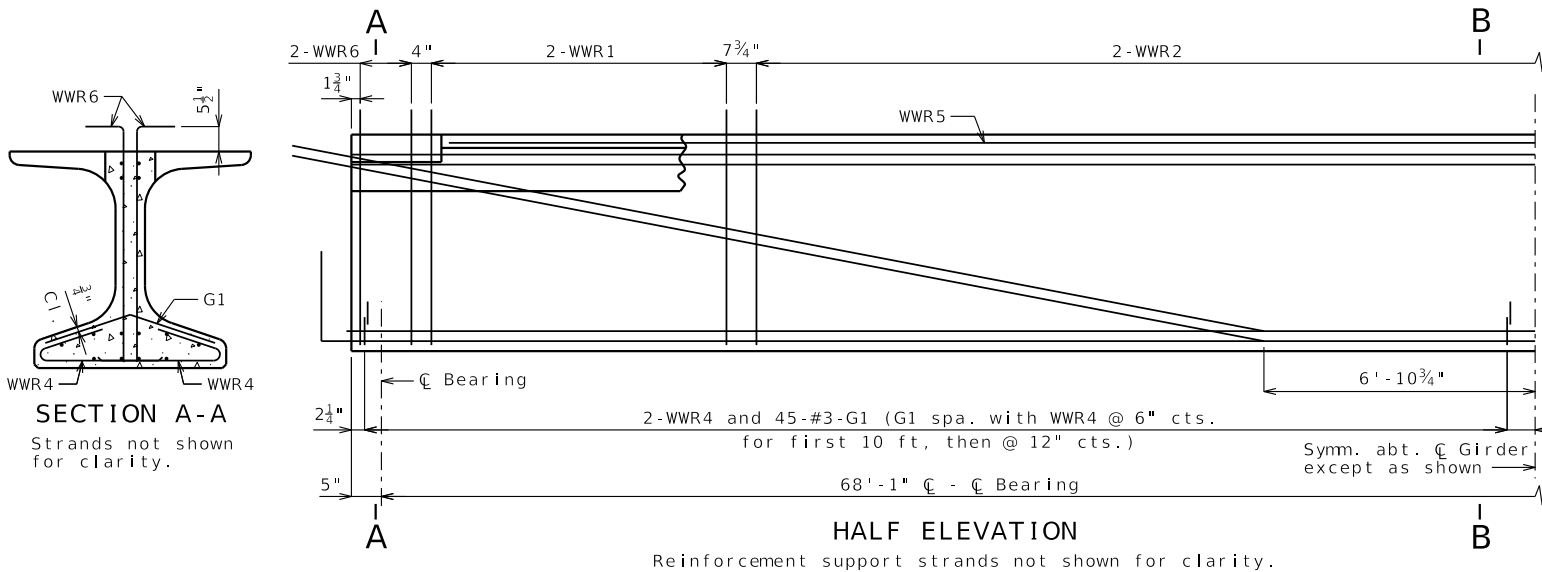
Exterior and interior girders are the same except: coil ties, top flange blackout, and application of bond breaker.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 17.

For location of coil ties at concrete diaphragms and integral bents, see Sheet No. 18.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

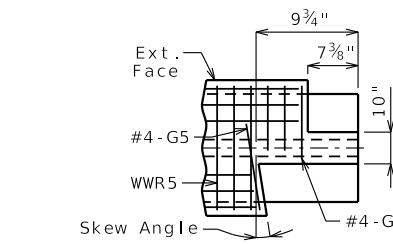


HALF ELEVATION

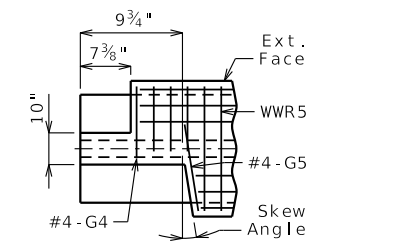
Reinforcement support strands not shown for clarity.

SECTION A-A
Strands not shown for clarity.

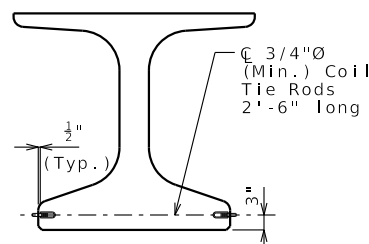
SECTION B-B
Strands not shown for clarity.



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
Rotate 180° for right ext.

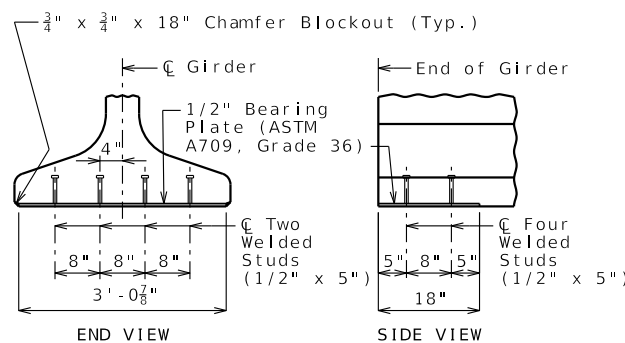


INTERIOR GIRDER AT ALL BENTS
TOP FLANGE BLOCKOUT



CLOSED DIAPHRAGMS AND INTEGRAL BENTS
COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.



BEARING PLATE

NU-GIRDERS - SPANS (2-3) AND (3-4)

Detailed July 2024
Checked Sep. 2024

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

Sheet No. 15 of 31



RODNEY D. RILEY
NUMBER E-26267
12/12/2024 8:32:51 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
12-DEC-2024

ROUTE STATE
E MO
DISTRICT SHEET NO.
BR 15

COUNTY
MONTGOMERY
JOB NO.
J2S3439
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

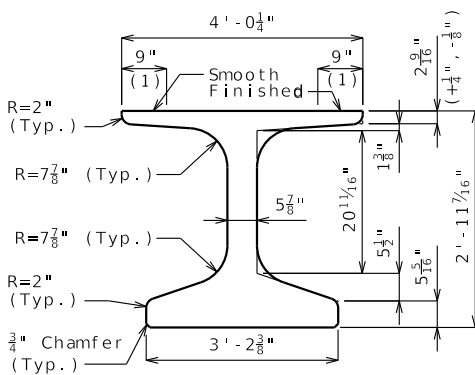
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY
#60704

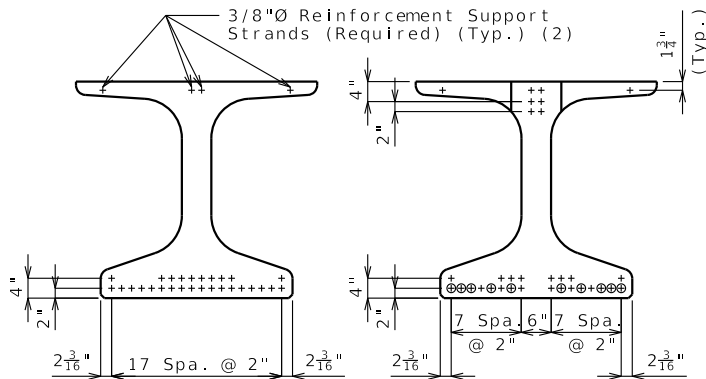
REV.

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.



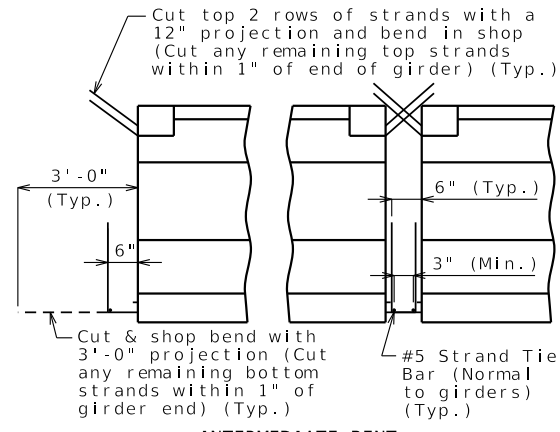
DIMENSIONS

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about C Girder. May be moved laterally in pairs.

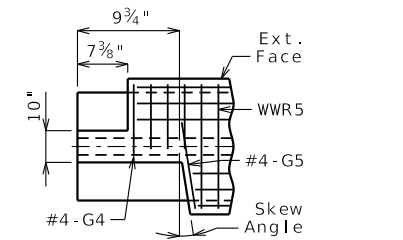
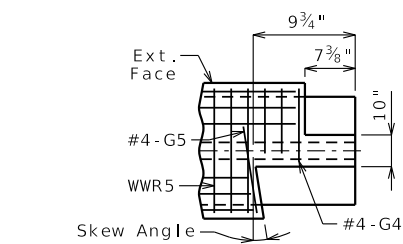


STRAND ARRANGEMENT

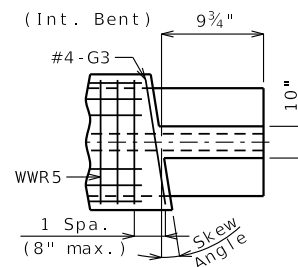
+ Indicates prestressing strand.
o Indicates cut & shop bend with 3'-0" projection.



STRANDS AT GIRDER ENDS



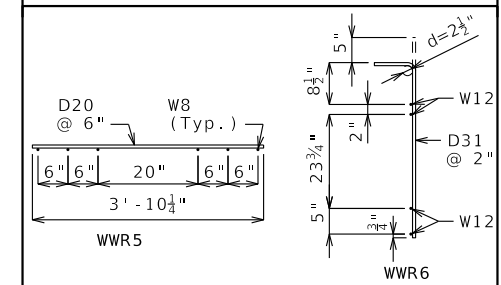
LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
Rotate 180° for right ext.



INTERIOR GIRDER AT ALL BENTS
TOP FLANGE BLOCKOUT

Bill of Reinforcing Steel - Each Girder				
No.	Size/Mark	Length	Shape	Bending Diagrams
194	5 B1	4'-4"	11S	Shape 20
214	4 D1	4'-0"	9S	Shape 12
2	4 G3	3'-10 1/2"	20	Shape 9S Shape 11S
2	4 G4	2'-3"	20	
2	4 G5	2'-8 3/8"	20	

Welded Wire Reinforcement - Each Girder



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRS1 Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

All bar reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans.

General Notes:

Concrete for prestressed girders shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

Use 28 strands, 0.6"Ø Grade 270, with an initial prestress force of 1230 kips.

Prestensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

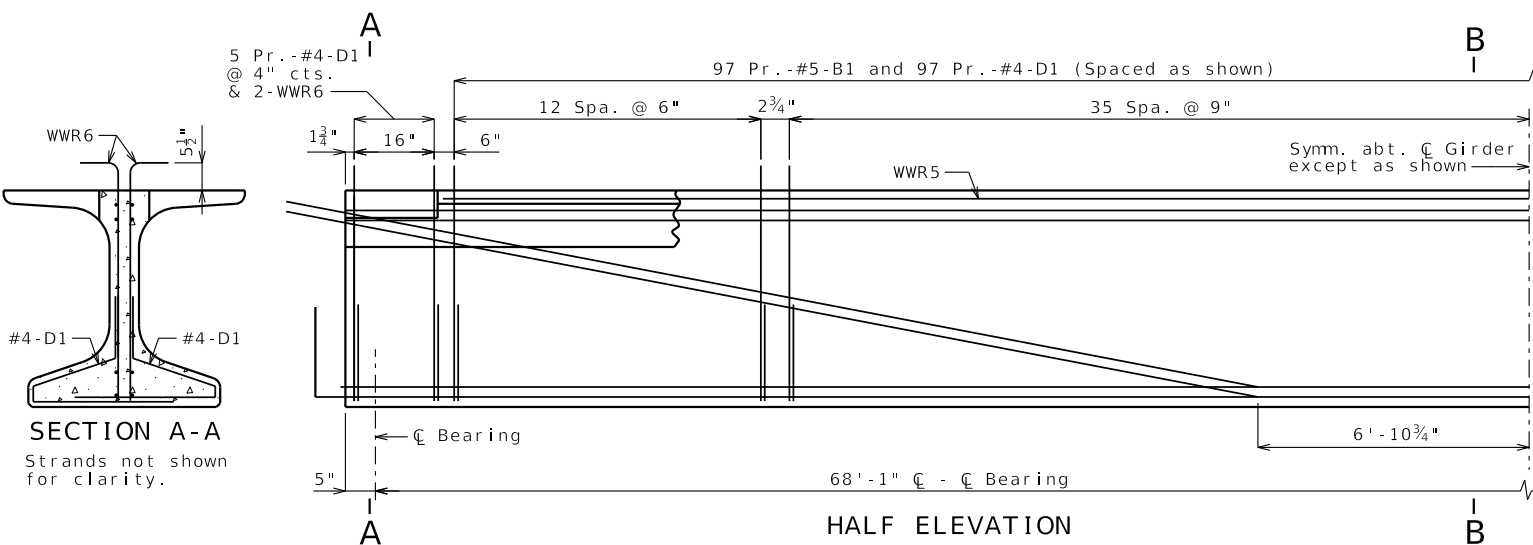
Exterior and interior girders are the same except: coil ties, top flange blockout, and application of bond breaker.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 17.

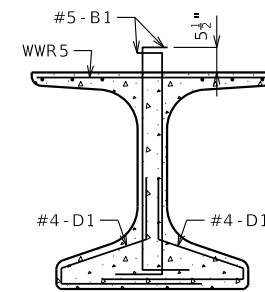
For location of coil ties at concrete diaphragms and integral bents, see Sheet No. 18.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.



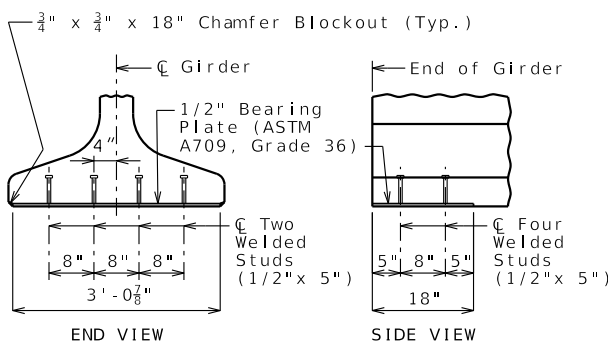
HALF ELEVATION

Reinforcement support strands not shown for clarity.

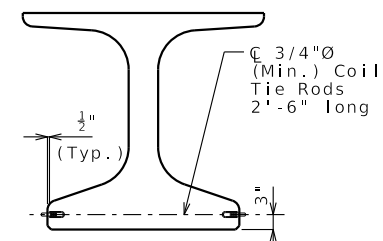


SECTION B-B

Strands not shown for clarity.



BEARING PLATE



CLOSED DIAPHRAGMS AND INTEGRAL BENTS
COIL TIES

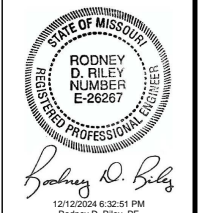
Exclude coil tie at exterior face of exterior girders except at integral end bents.

NU-GIRDERS (ALTERNATE REINFORCEMENT) - SPANS (2-3) AND (3-4)

Detailed July 2024
Checked Sep. 2024

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

Sheet No. 16 of 31



DATE PREPARED
12-DEC-2024

ROUTE E STATE MO
DISTRICT BR SHEET NO. 16

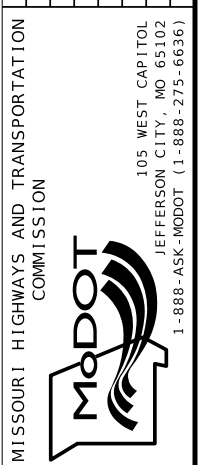
COUNTY MONTGOMERY

JOB NO. J2S3439
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9375

DATE	DESCRIPTION



Jacobs
ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY
#00704

REV.



RODNEY D. RILEY
 NUMBER E-26267
 MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED
 12-DEC-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 BR 17

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9375

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

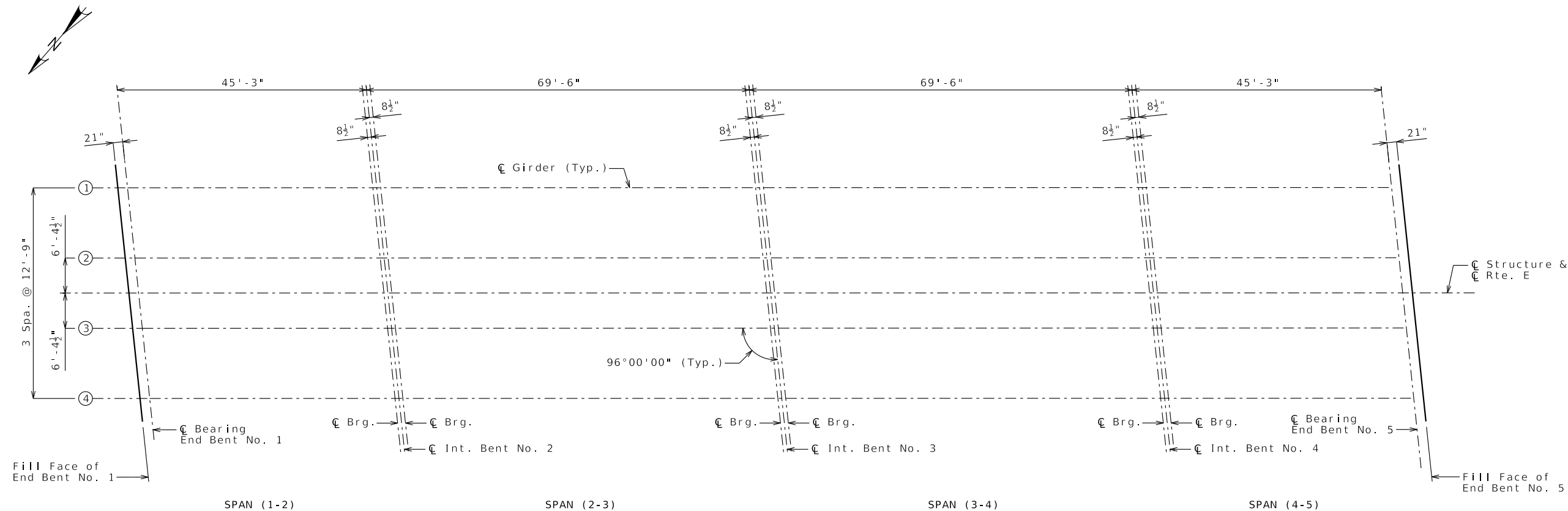
JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST SUITE 400

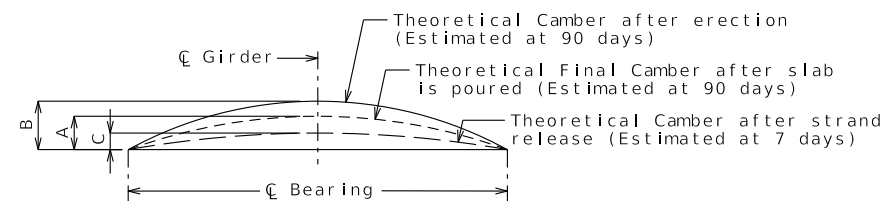
ST. LOUIS, MISSOURI 63110

PHONE: (314) 385-4000

CERTIFICATE AUTHORITY #60704



PLAN SHOWING LAYOUT OF PRESTRESSED GIRDERS
 (Longitudinal dimensions are horizontal)



Girder	Span (1-2)			Span (2-3)			Span (3-4)			Span (4-5)		
	A	B	C	A	B	C	A	B	C	A	B	C
Exterior	3/8"	1/2"	3/8"	1 3/4"	2 3/4"	1 1/2"	1 3/4"	2 3/4"	1 1/2"	3/8"	1/2"	3/8"
Interior	3/8"			1 1/2"			1 1/2"			3/8"		

GIRDER CAMBER DIAGRAM

Conversion Factors for Girder Camber (Estimated at 90 days):

0.25 pt. = 0.7125 x 0.5 pt.

Notes:

If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. The haunch shall be limited to ensure the projecting girder reinforcement or hairpin bar is embedded into the slab at least 2 inches. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Concrete NU-Girder.

FRAMING PLAN

Detailed Sep. 2024
 Checked Sep. 2024

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

Sheet No. 17 of 31

REV.



RODNEY D. RILEY
NUMBER
E-26267

DATE PREPARED
12-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
BR 18

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102

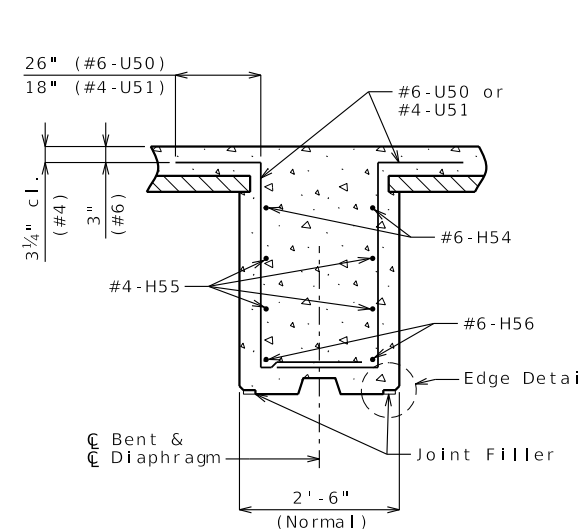
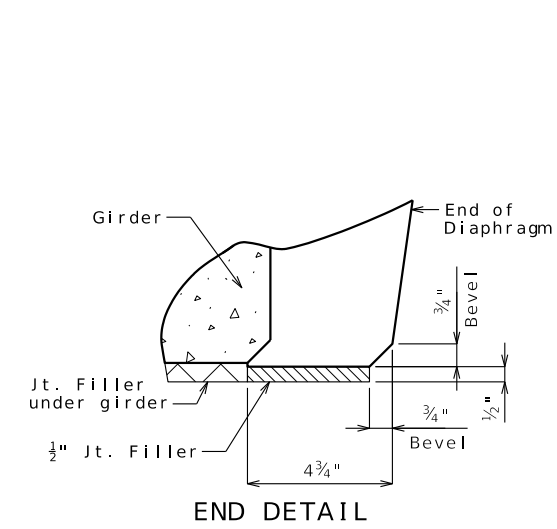
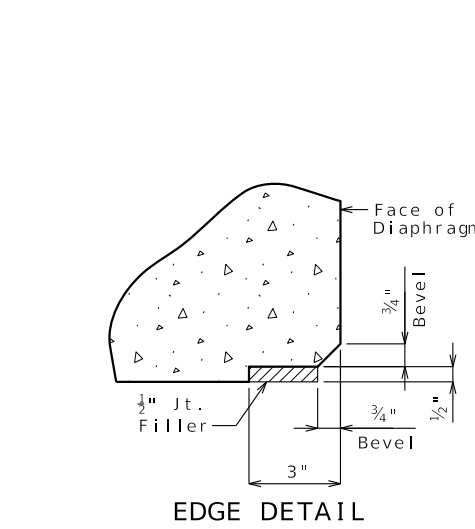
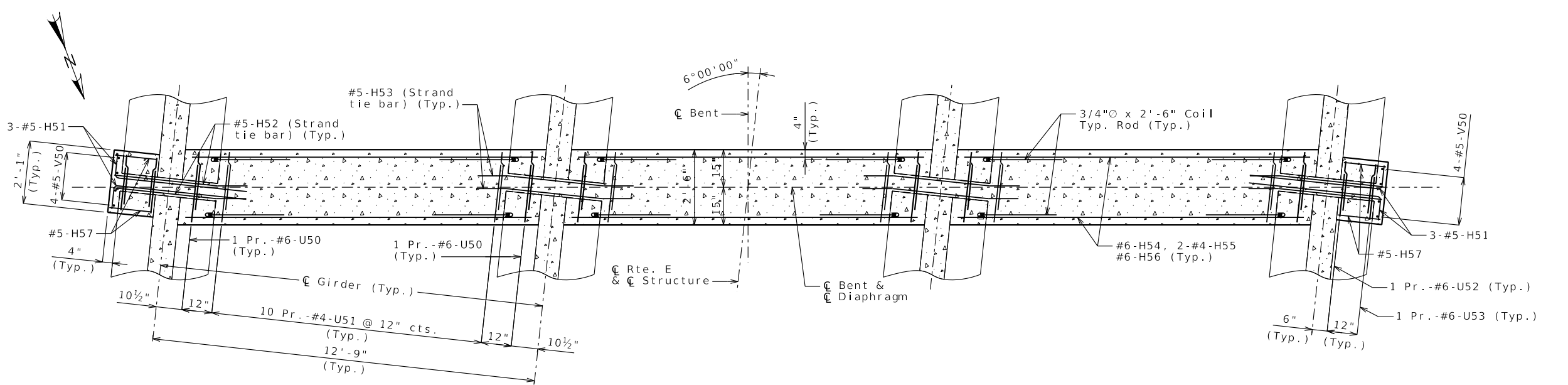
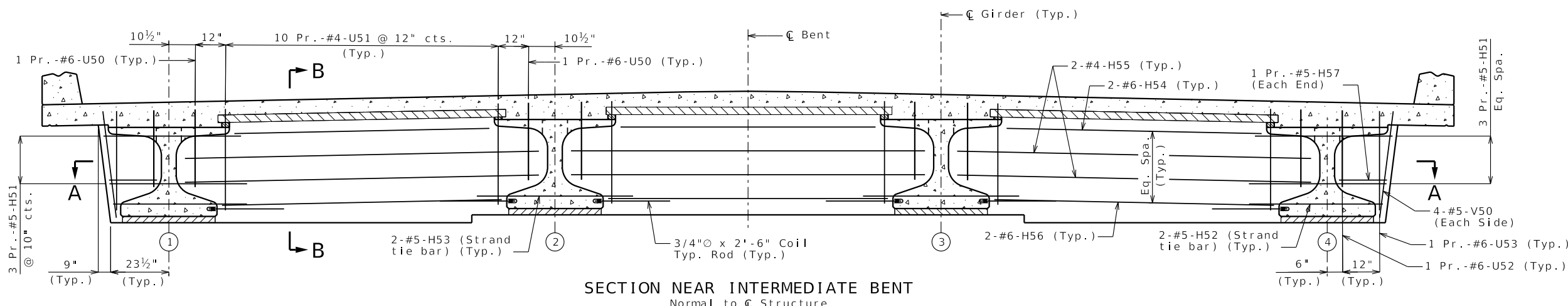
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP
ST. LOUIS, MISSOURI 63110

PHONE: (314) 385-4000

CERTIFICATION AUTHORITY
#60704



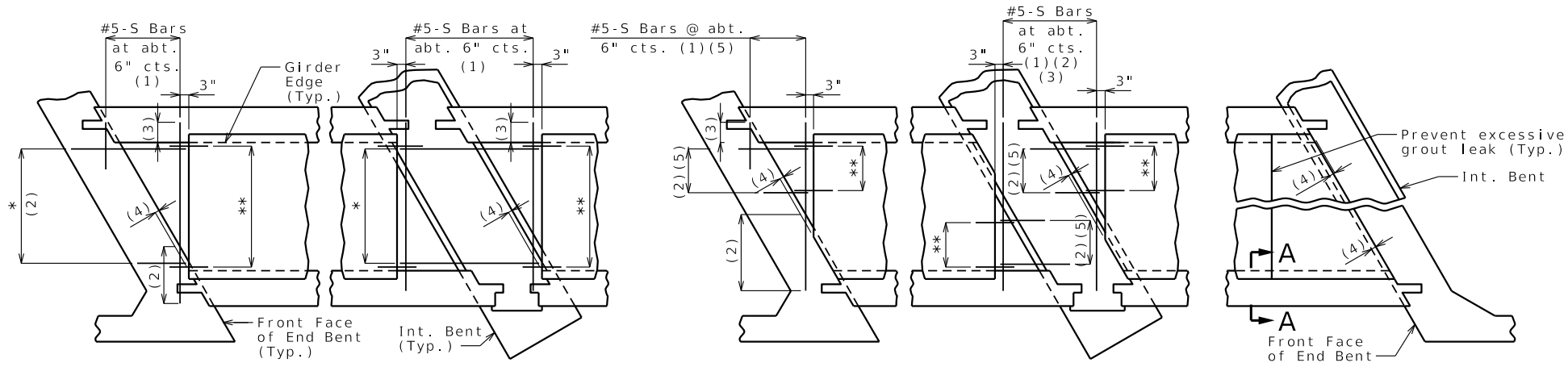
Notes:
For location of Strand Tie Bars, see Sheet No. 13 thru 16.
For location and details of Coil Tie Rods, see Sheet No. 13 thru 16.
Diaphragms at Intermediate bents shall be built vertical.
All U-bars in diaphragms are to be placed parallel to G Structure.
Work this sheet with Sheets No. 8 & 9.

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. 18 of 31

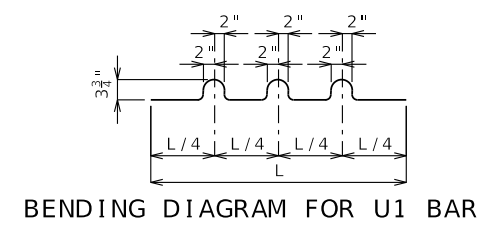


SQUARED END PANELS OR TRUNCATED END PANELS
PLAN SHOWING PANEL PLACEMENT

* #5-S Bars at abt. 9" cts. (1)
** #3-P1 at 12" cts. (End panels only)

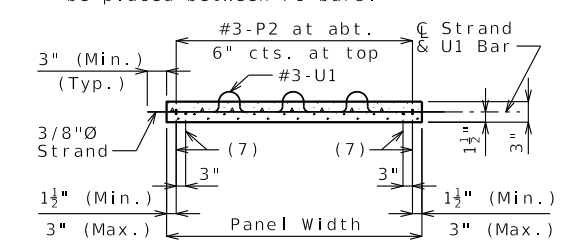
SKewed END PANELS
Joint Filler Dimensions

Width	Height	
	Min.	Max.
3"	1"	4"

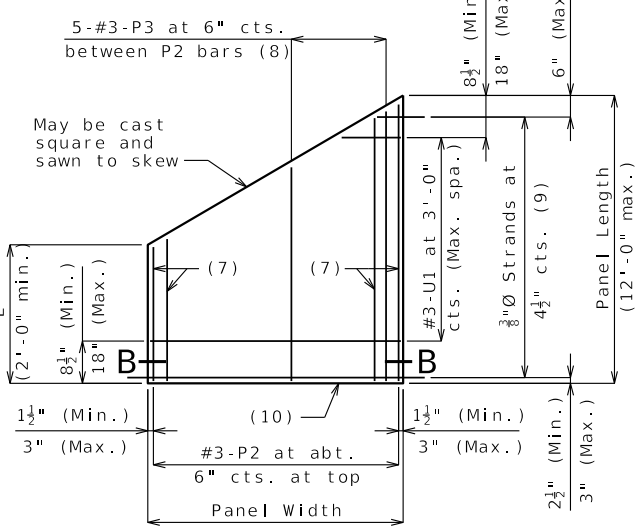


BENDING DIAGRAM FOR U1 BAR

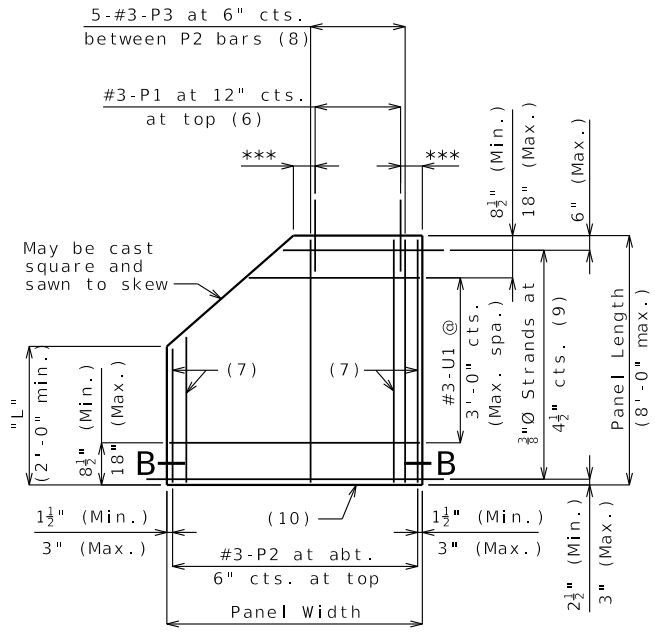
U1 Bars may be oriented at right angles to location and spacing shown. U1 Bars shall be placed between P1 bars.



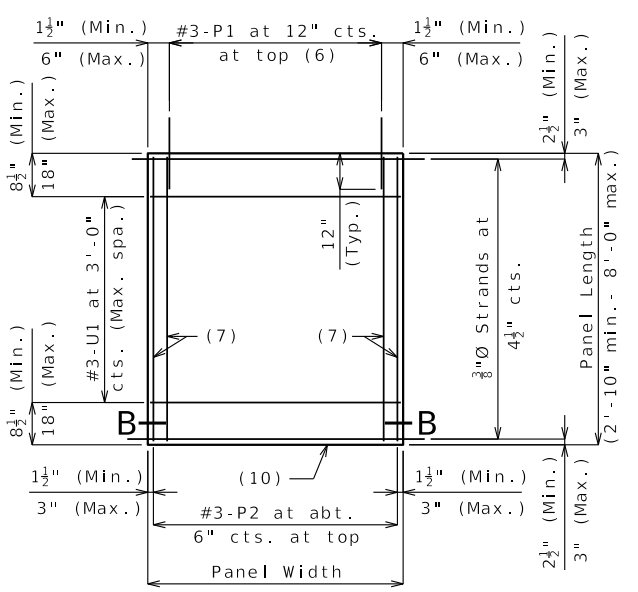
SECTION B-B



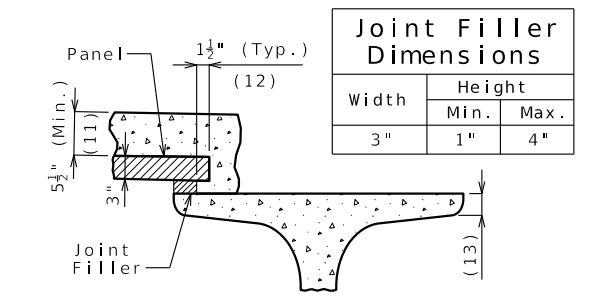
PLAN OF OPTIONAL SKewed END PANEL



PLAN OF OPTIONAL TRUNCATED END PANEL



PLAN OF SQUARED PANEL



SECTION A-A

Reference Notes:

- Plan of Panel Placement:
- (1) S-bars shown are bottom steel in slab between panels and used with squared and truncated end panels only.
- (2) Extend S-bars 18 inches beyond the front face of end bents and int. bents for squared and truncated end panels only.
- (3) Extend S-bars 9 inches beyond edge of girder (Typ.).
- (4) End panels shall be dimensioned 1/2" min. to 1 1/2" max. from the inside face of diaphragm.
- (5) For truncated end panels, use a min. of #5-S bars at 6" crossings in openings, or min. 4x4-W7xW7.
- Plans of Panels:
- (6) For end panels only, P1 bars shall be 2'-0" in length and embedded 12". P1 bars will not be required for panels at squared integral end bents.
- (7) #3-P2 bars near edge of panel at bottom (under strands).
- (8) Use #3-P3 bars if panel is skewed 45° or greater.
- (9) Any strand 2'-0" or shorter shall have a #4 reinforcing bar on each side of it, centered between strands. Strands 2'-0" or shorter may then be debonded at the fabricator's option.
- (10) Optional 1/2" x 45° Chamfer one or both sides at bottom.
- Section A-A:
- (11) Slab thickness over prestressed panels varies due to girder camber. In order to maintain minimum slab thickness, it may be necessary to raise the grade uniformly throughout the structure. No payment will be made for additional labor or materials required for necessary grade adjustment.
- (12) Contractor shall ensure proper consolidation under and between panels.
- (13) At the contractor's option, the variation in slab thickness over prestressed panels may be eliminated or reduced by increasing and varying the girder top flange thickness. Dimensions shall be shown on the shop drawings.

PRESTRESSED PANELS

General Notes:

Prestressed Panels:
Concrete for prestressed panels shall be Class A-1 with f'c = 6,000 psi, f'ci = 4,000 psi.

The top surface of all panels shall receive a scored finish with a depth of scoring of 1/8" perpendicular to the prestressing strands in the panels.

Prestressing tendons shall be high-tensile strength, uncoated, seven-wire, low-relaxation strands for prestressed concrete in accordance with AASHTO M 203 Grade 270, with nominal diameter of strand = 3/8" and nominal area = 0.085 sq.in. and minimum ultimate strength = 22.95 kips (270 ksi). Larger strands may be used with the same spacing and initial tension.

Initial prestressing force = 17.2 kips/strand.

The method and sequence of releasing the strands shall be shown on the shop drawings.

Suitable anchorage devices for lifting panels may be cast in panels, provided the devices are shown on the shop drawings and approved by the engineer. Panel lengths shall be determined by the contractor and shown on the shop drawings.

When squared end panels are used at skewed bents, the skewed portion shall be cast full depth. No separate payment will be made for additional concrete and reinforcing required.

Support from diaphragm forms is required under the optional skewed end until cast-in-place concrete has reached 3,000 psi compressive strength.

Prestressed panels shall be brought to saturated surface-dry (SSD) condition just prior to the deck pour. There shall be no free standing water on the panels or in the area to be cast.

The prestressed panel quantities are not included in the table of estimated quantities for the slab.

Reinforcing Steel:
All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

If U1 bars interfere with placement of slab steel, U1 loops may be bent over, as necessary, to clear slab steel.

Deformed welded wire reinforcement (WWR) providing a minimum area of reinforcing perpendicular to strands of 0.22 sq in./ft, with spacing parallel to strands sufficient to ensure proper handling, may be used in lieu of the #3-P2 bars shown. Wire diameter shall not be larger than 0.375 inch. The above alternative reinforcement criteria may be used in lieu of the #3-P3 bars, when required, and placed over a width not less than 2 feet.

The following reinforcing steel shall be tied securely to the strands with the following maximum spacing in each direction:
#3-P2 bars at 16 inches.
WWR at 24 inches.

The #3-U1 bars shall be tied securely to #3-P2 bars, to WWR or to strands (when placed between P1 bars) at about 3-foot centers.

Minimum reinforcement steel length shall be 2'-0".

All reinforcement other than prestressing strands shall be epoxy coated.

Precast panels may be in contact with stirrup reinforcing in diaphragms.

S-bars are not listed in the bill of reinforcing.

Cost of S-bars will be considered completely covered by the contract unit price for the slab.

Joint Filler:

Joint filler shall be preformed fiber expansion joint material in accordance with Sec 1057 or expanded or extruded polystyrene bedding material in accordance with Sec 1073.

Use Slab Haunching Diagram on Sheet No. 20 for determining thickness of joint filler within the limits noted in the table of Joint Filler Dimensions.

Thicker material may be used on one or both sides of the girder to reduce cast-in-place concrete thickness to within tolerances.

The same thickness of preformed fiber expansion joint material shall be used under any one edge of any panel except at locations where top flange thickness may be stepped. The maximum change in thickness between adjacent panels shall be 1/2 inch. The polystyrene bedding material may be cut with a transition to match haunch height above top of flange.

Joint filler shall be glued to the girder. When thickness exceeds 1 1/2 inches, the joint filler shall be glued top and bottom. The glue used shall be the type recommended by the joint filler manufacturer.

Edges of panels shall be uniformly seated on the joint filler before slab reinforcement is placed.

Detailed July 2024
Checked Sep. 2024

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

Sheet No. 19 of 31

DATE PREPARED
12-DEC-2024

ROUTE E STATE MO
DISTRICT BR SHEET NO. 19

COUNTY
MONTGOMERY

JOB NO.
J253439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATION AUTHORITY
#00704

16:41 12-DEC-2024



RODNEY D. RILEY
 LICENSE NUMBER
 E-26267
 RODNEY D. RILEY, P.E.
 12/12/2024 8:32:54 PM
 MO-026267

DATE PREPARED
 12-DEC-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 BR 20

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9375

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

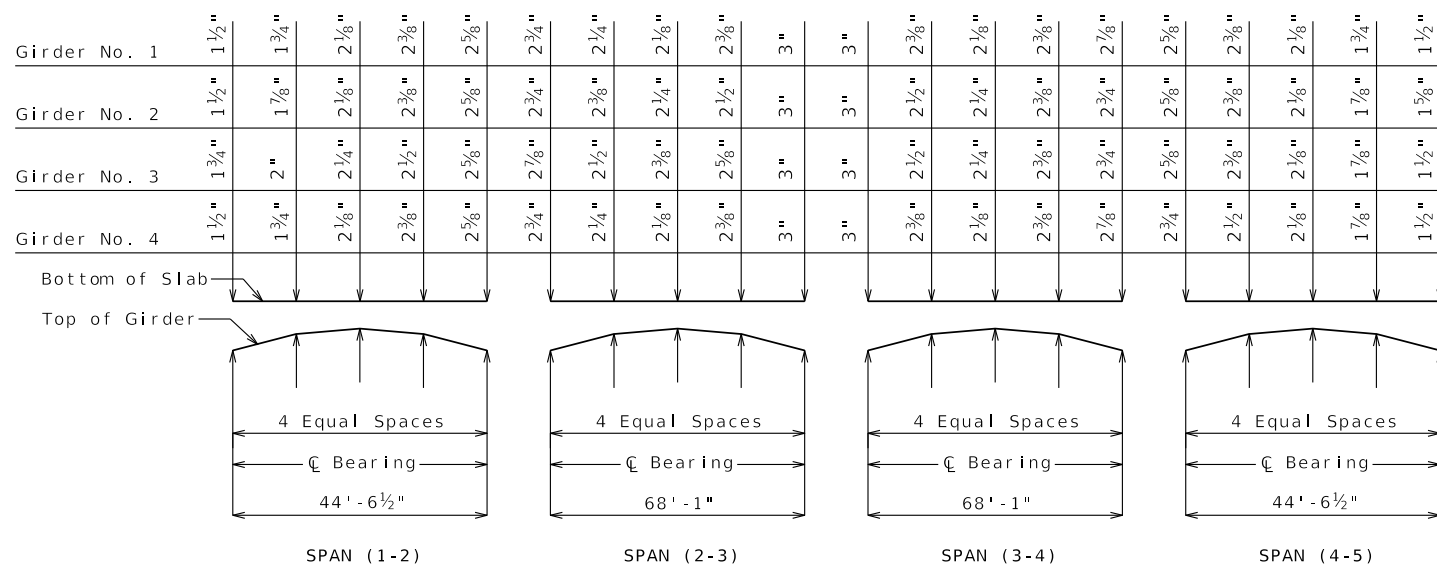
JACOBS ENGINEERING GROUP

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PHONE: (314) 336-4000

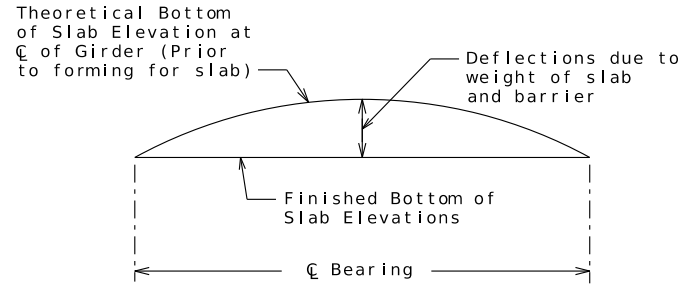
CERTIFICATE OF AUTHORITY #60704



THEORETICAL SLAB HAUNCHING DIAGRAM (ESTIMATED AT 90 DAYS)

If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Concrete Girder.



TYPICAL SLAB ELEVATIONS DIAGRAM

Theoretical Bottom of Slab Elevations at Centerline of Girder (Prior to forming for slab) (Estimated at 90 days)

Girder Number	Span (1-2) (44'-6 1/2" C Brg. - C Brg.)				Span (2-3) (68'-1" C Brg. - C Brg.)				Span (3-4) (68'-1" C Brg. - C Brg.)				Span (4-5) (44'-6 1/2" 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	893.97	894.15	894.31	894.44	894.55	894.56	894.78	894.92	894.97	894.95	894.95	895.01	895.00	894.90	894.73	894.72	894.63	894.52	894.39	894.24
2	894.24	894.43	894.58	894.71	894.82	894.83	895.06	895.20	895.24	895.20	895.21	895.28	895.27	895.16	894.97	894.96	894.88	894.77	894.63	894.48
3	894.27	894.44	894.60	894.73	894.83	894.85	895.07	895.20	895.25	895.21	895.21	895.28	895.26	895.15	894.96	894.95	894.86	894.75	894.62	894.46
4	894.03	894.21	894.36	894.79	894.59	894.60	894.81	894.94	894.98	894.95	894.95	895.01	894.99	894.88	894.69	894.68	894.59	894.48	894.34	894.18

Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab (including precast panel) and barrier.

SLAB HAUNCH AND ELEVATION DATA



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DATE PREPARED
12-DEC-2024

ROUTE STATE
E MO

DISTRICT SHEET NO.
BR 21

COUNTY
MONTGOMERY

JOB NO.
J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9375

DESCRIPTION

DATE

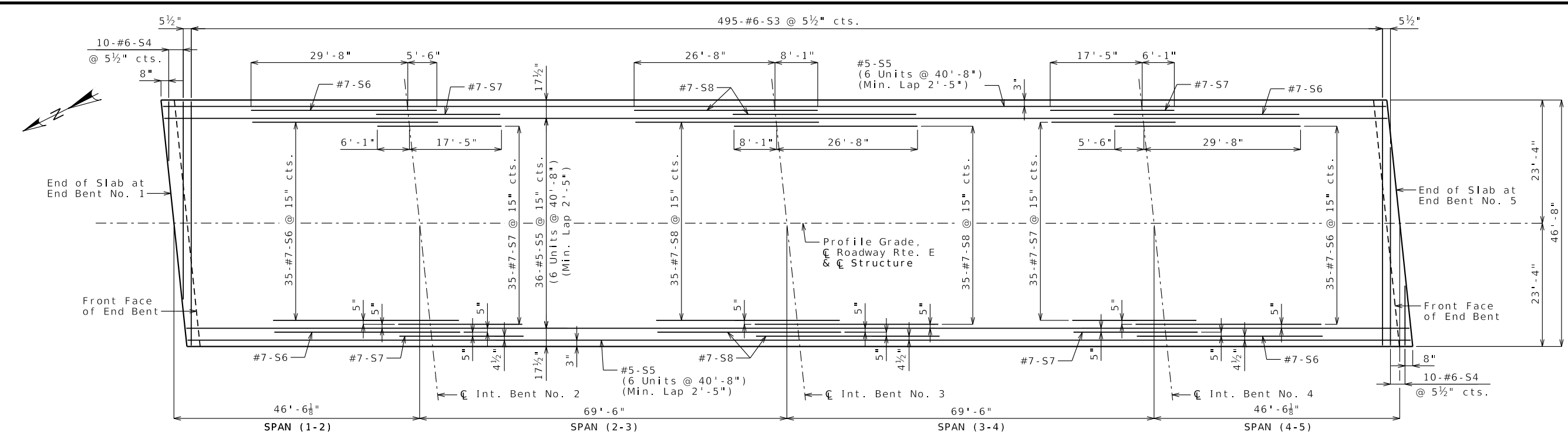
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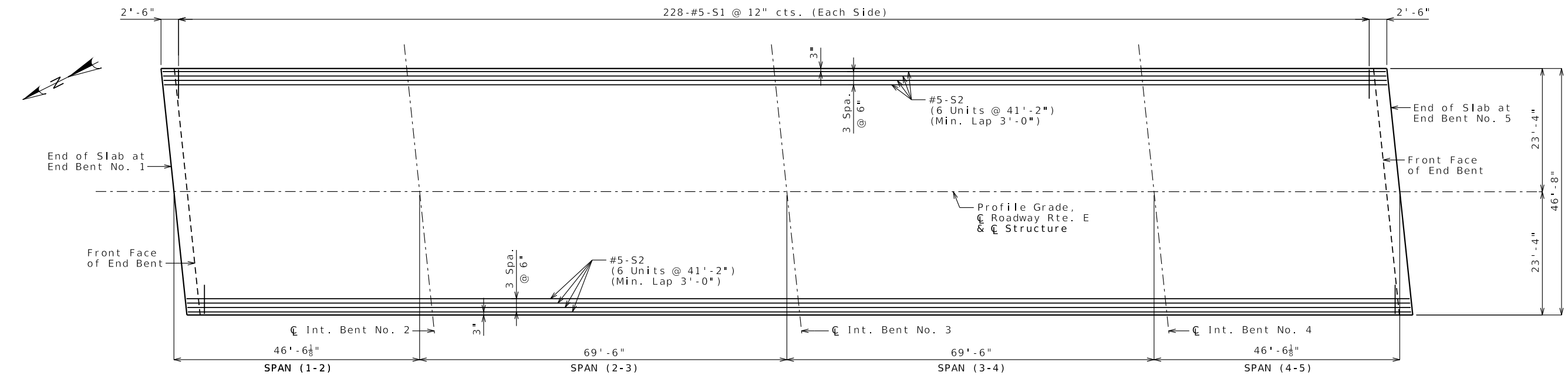
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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CERTIFICATE #00704



PLAN OF SLAB SHOWING TOP REINFORCEMENT



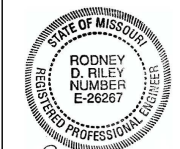
PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT

PLAN OF SLAB SHOWING REINFORCEMENT

General Notes:
Longitudinal dimensions shown are horizontal.
For Section Thru Slab and Slab Pouring Sequence, see Slab Details, Sheet No. 22.
For Details and Reinforcement of Type D Barrier not shown, see Sheet No. 23.
For Details of Precast Prestressed Panels, see Sheet No. 19.
For Theoretical Slab Haunching Diagram, see Sheet No. 20.
For Theoretical Bottom of Slab Elevations, see Sheet No. 20

Detailed Aug. 2024
Checked Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 21 of 31



RODNEY D. RILEY
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 MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED
 12-DEC-2024

ROUTE STATE
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 DISTRICT SHEET NO.
 BR 22

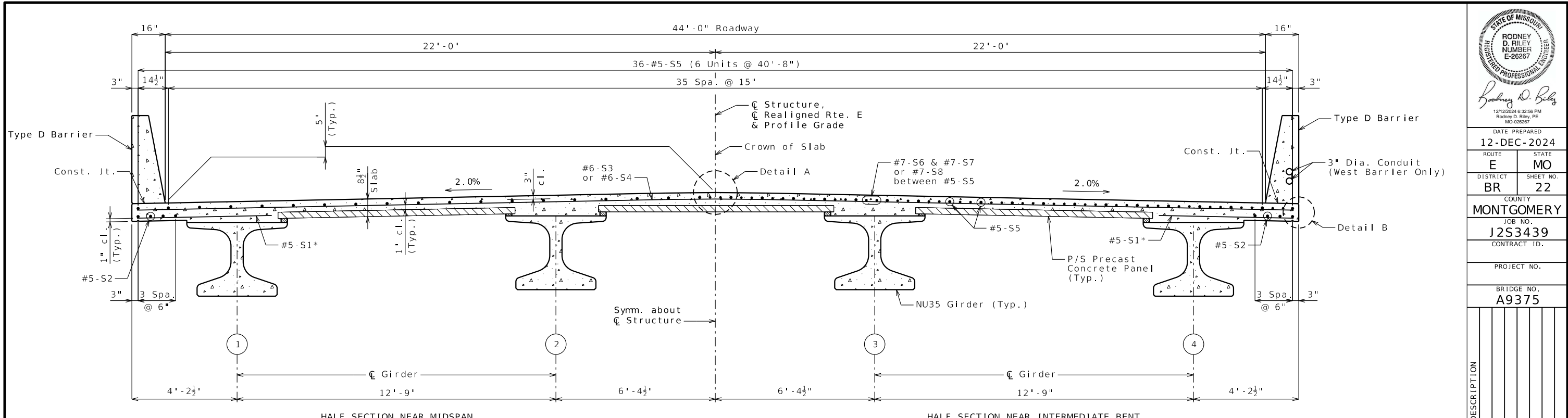
COUNTY
 MONTGOMERY
 JOB NO.
 J2S3439
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.
 A9375

DATE	DESCRIPTION

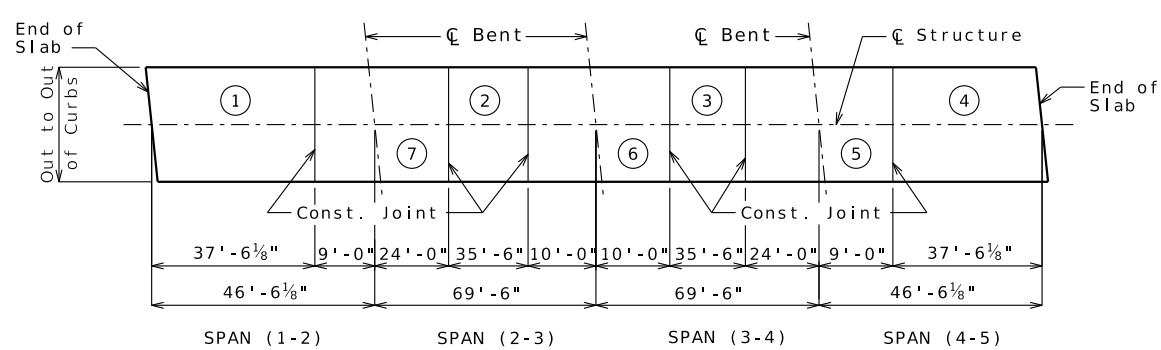
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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 1-888-ASK-MODOT (1-888-275-6636)

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 CERTIFICATION AUTHORITY
 #60704



TYPICAL SECTION
 (Looking Upstation)

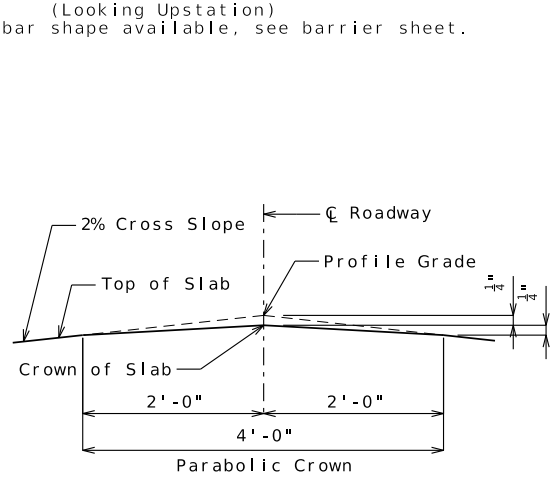
* Alternate bar shape available, see barrier sheet.



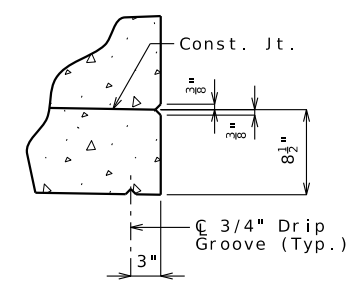
Sequence of Pours	Direction							Min. Rate of Pour Cu. Yds./Hr.	
	With Retarder								
Basic Sequence	1	2	3	4	5	6	7	25	
Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703.									
Alternate A Pours	1	7 + 2	6 + 3	5 + 4	End to 7				25
Alternate B Pours	1 + 7 + 2	6 + 3	5 + 4	End to 6				25	
Alternate C Pours	1 + 7 + 2	6 + 3 + 5 + 4		End to 6				25	
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4							25	

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given. The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

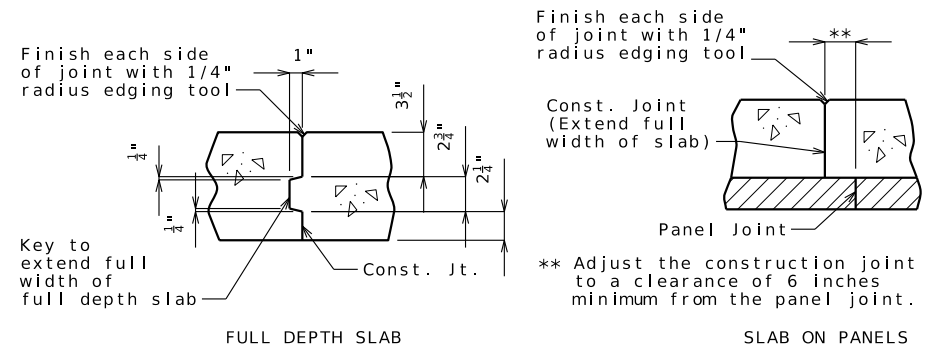
SLAB POURING SEQUENCE



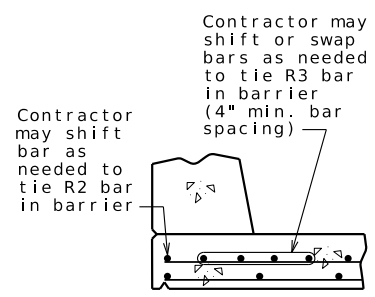
DETAIL A



DETAIL B



SLAB CONSTRUCTION JOINT



OPTIONAL SHIFTING TOP BARS AT BARRIER

SLAB DETAILS

- Notes:
- For General Notes, see Sheet No. 2.
 - All Horizontal Dimensions are perpendicular to C Rte. E.
 - For details of precast prestressed panels, see Sheet No. 19.
 - For reinforcement of barrier not shown, see Sheet No. 23.
 - For Theoretical Bottom of Slab Elevations, Girder Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. 20.
 - For Plan of Slab Showing Reinforcement, Details and Notes not shown here, see Sheet No. 21.
 - For details of Conduit System in Barrier, see Sheet No. 26.

Detailed Aug. 2024
 Checked Oct. 2024

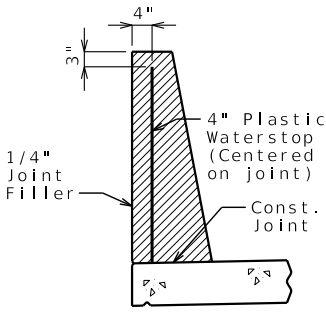
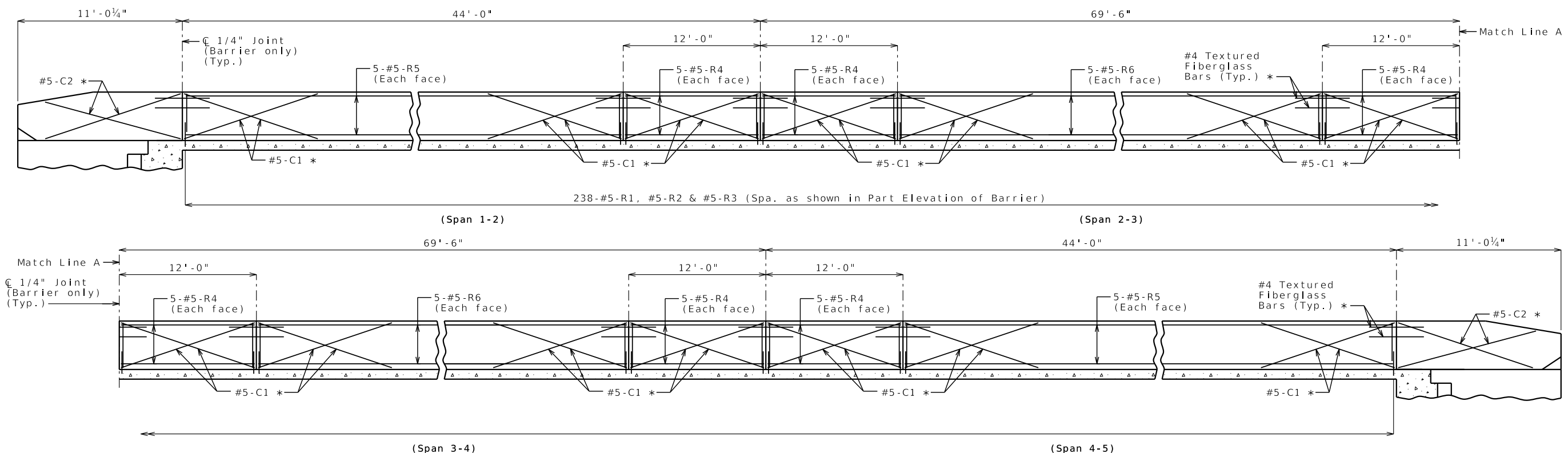
Note: This drawing is not to scale. Follow dimensions. Sheet No. 22 of 31



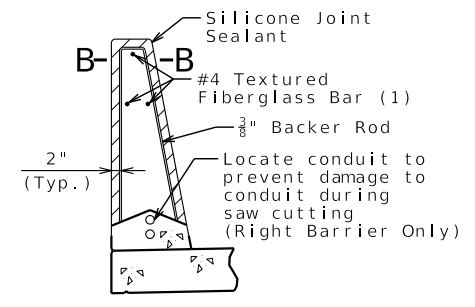
RODNEY D. RILEY
 LICENSE NUMBER
 E-26267
 PROFESSIONAL ENGINEER

DATE PREPARED 12-DEC-2024	
ROUTE E	STATE MO
DISTRICT BR	SHEET NO. 23
COUNTY MONTGOMERY	
JOB NO. J2S3439	
CONTRACT ID.	

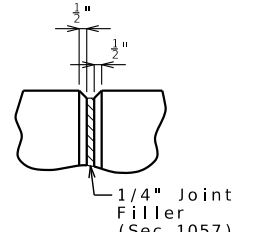
PROJECT NO.
BRIDGE NO. A9375



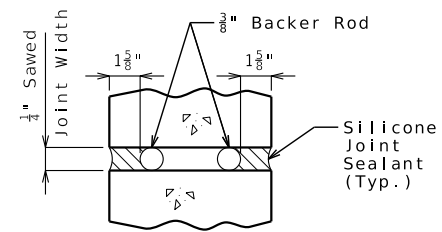
Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type D Barrier.



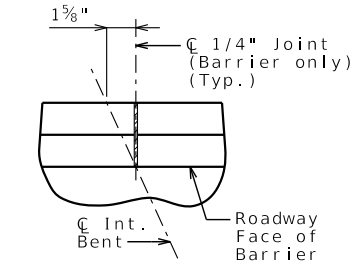
SECTION THRU SAW CUT JOINT



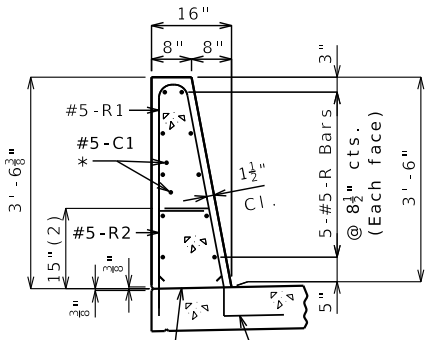
PART ELEVATION AT FORMED JOINT



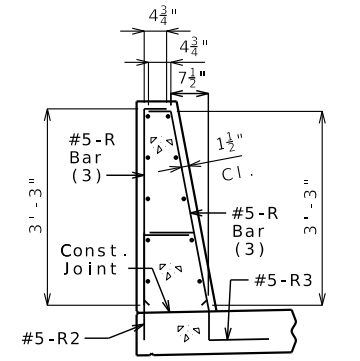
SECTION B-B



PART PLAN SHOWING JOINT LOCATION

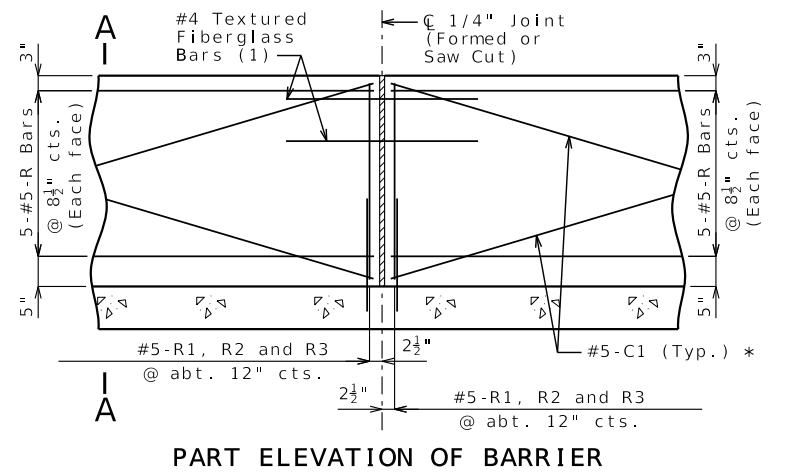


SECTION A-A



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.)
- (4) The R2 bar and #5 bottom transverse slab bar in cantilever (prestressed panels only) combination may be furnished as one bar as shown, at the contractor's option.



PART ELEVATION OF BARRIER

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.
- Conduit System in Right Barrier not shown for clarity. For details of Conduit System, see Sheet No. 26.

TYPE D BARRIER

Sheet No. 23 of 31

Detailed July 2024
 Checked Sep. 2024

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

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

Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 386-4000
 CERTIFICATION AUTHORITY #60704



RODNEY D. RILEY
 LICENSE NUMBER
 E-26267
 PROFESSIONAL ENGINEER
 STATE OF MISSOURI

DATE PREPARED
12-DEC-2024
 ROUTE STATE
E MO
 DISTRICT SHEET NO.
BR 24
 COUNTY
MONTGOMERY
 JOB NO.
J2S3439
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.
A9375

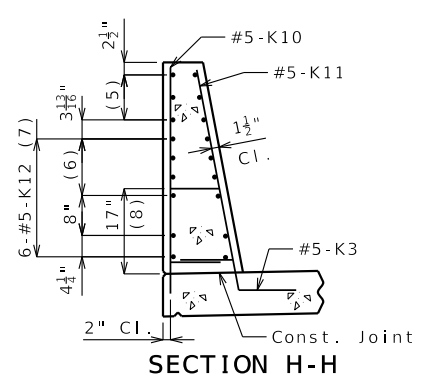
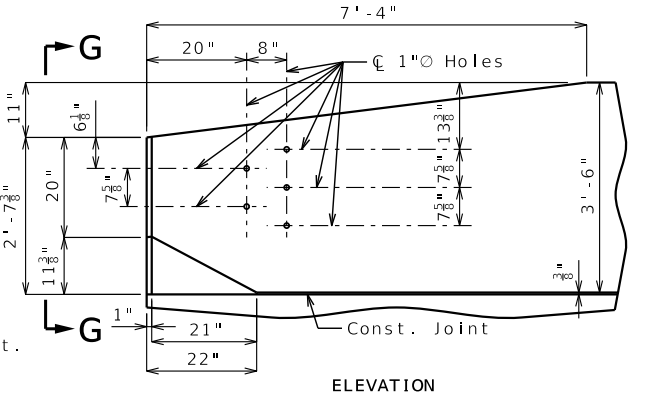
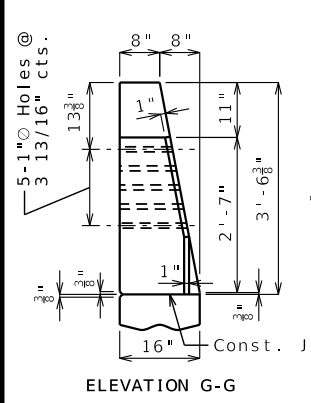
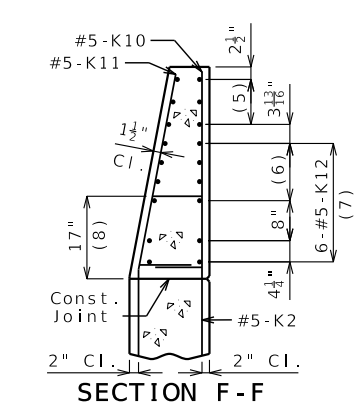
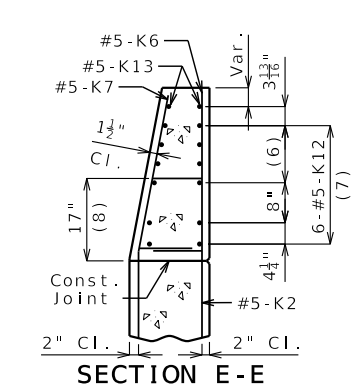
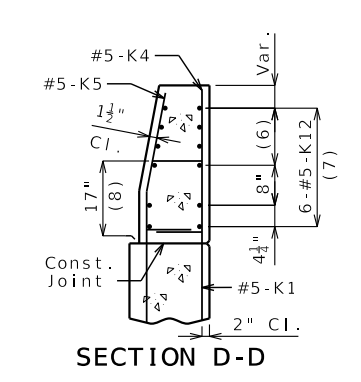
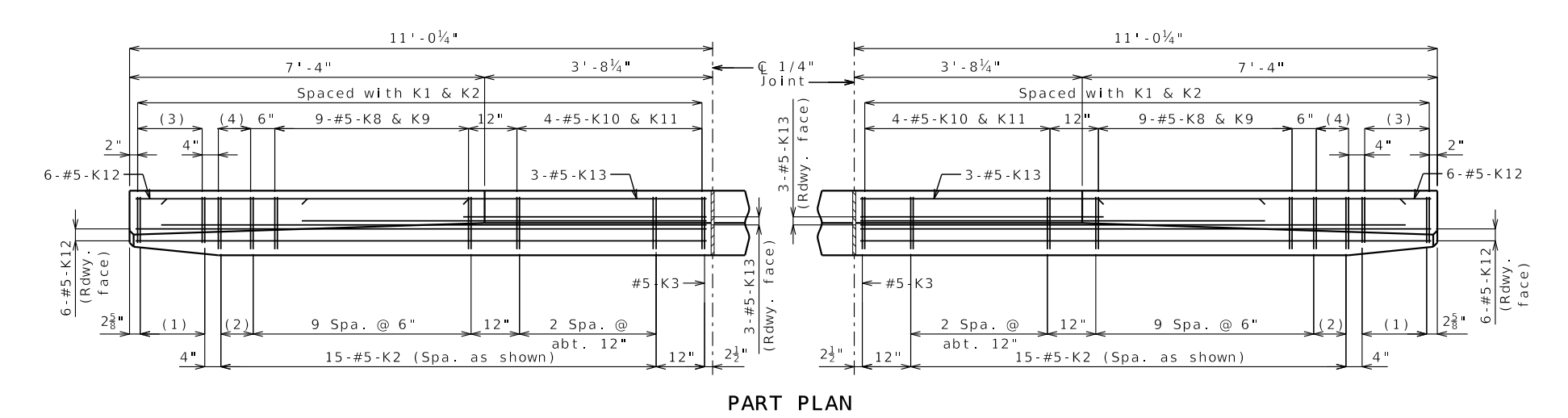
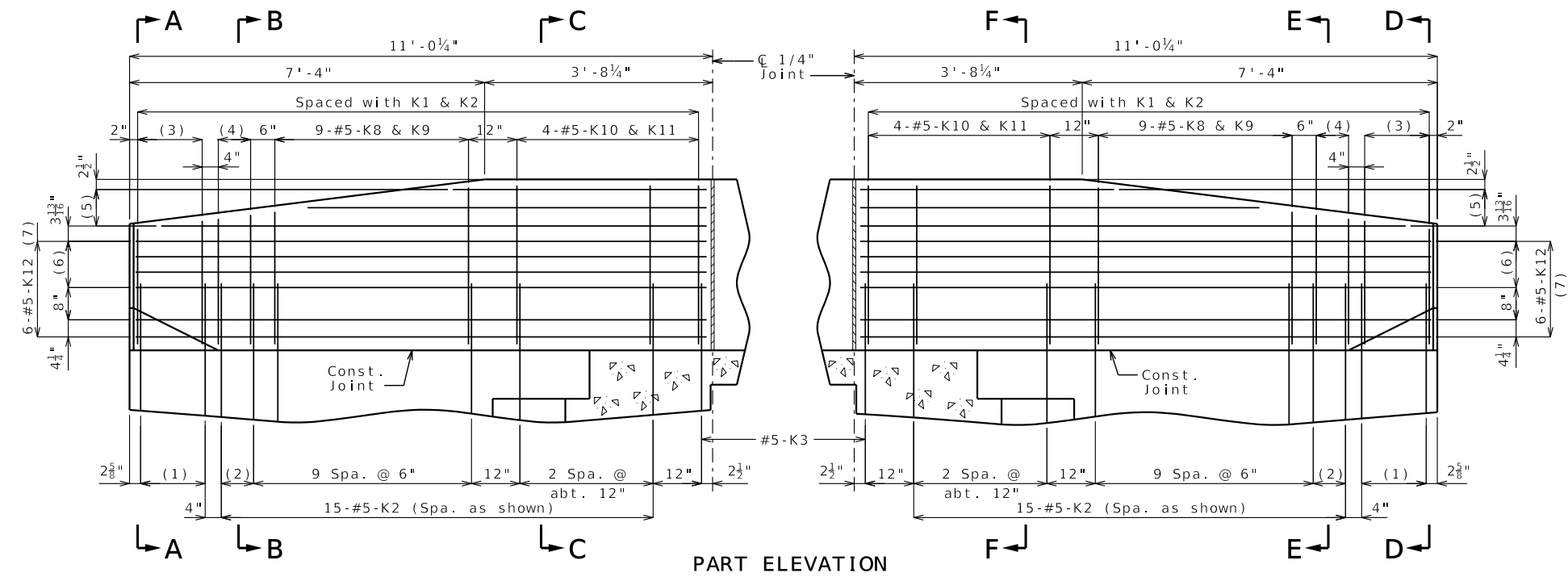
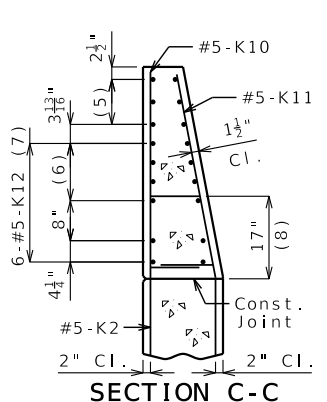
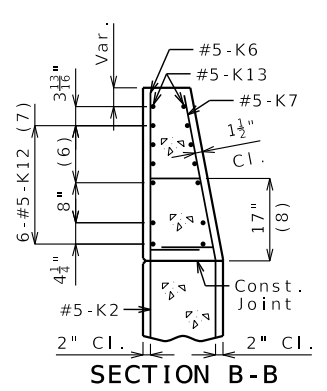
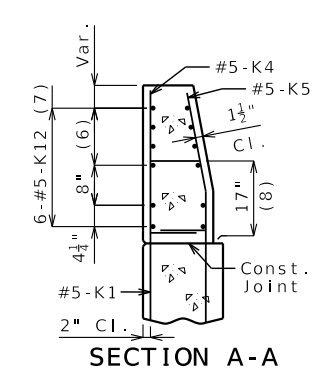
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

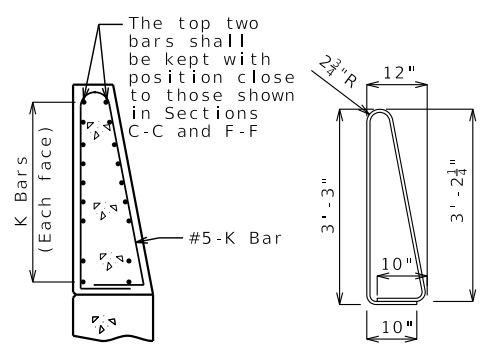
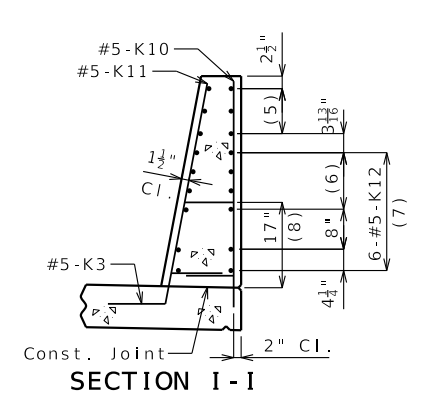
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP
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 #00704

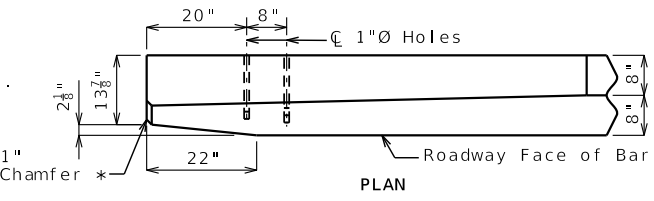


- (1) 5-#5-K1 @ 4" cts.
- (2) 2 spaces @ 4"
- (3) 5-#5-K4 & K5
- (4) 3-#5-K6 & K7
- (5) 3-#5-K13 @ 4 1/2" cts., each face
- (6) 3 spaces @ 3 13/16"
- (7) Spaced as shown, each face
- (8) To top of bar



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE
 (Other K bars not shown for clarity)

* 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. Conduit system in Right Barrier not shown for clarity. For details of Conduit System, see Sheet No. 26.

TYPE D BARRIER AT END BENTS

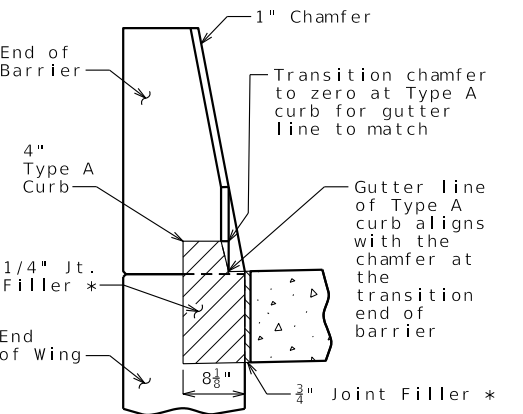
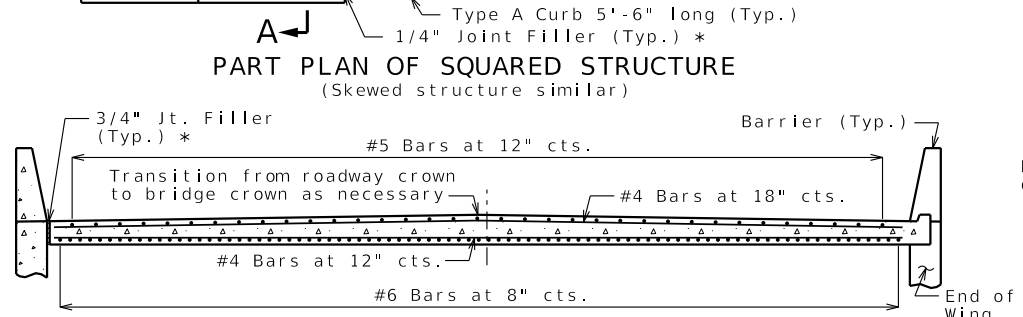
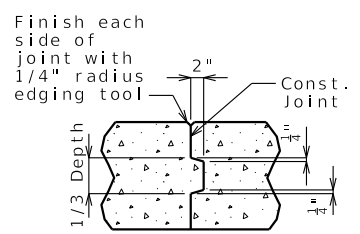
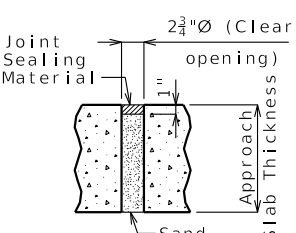
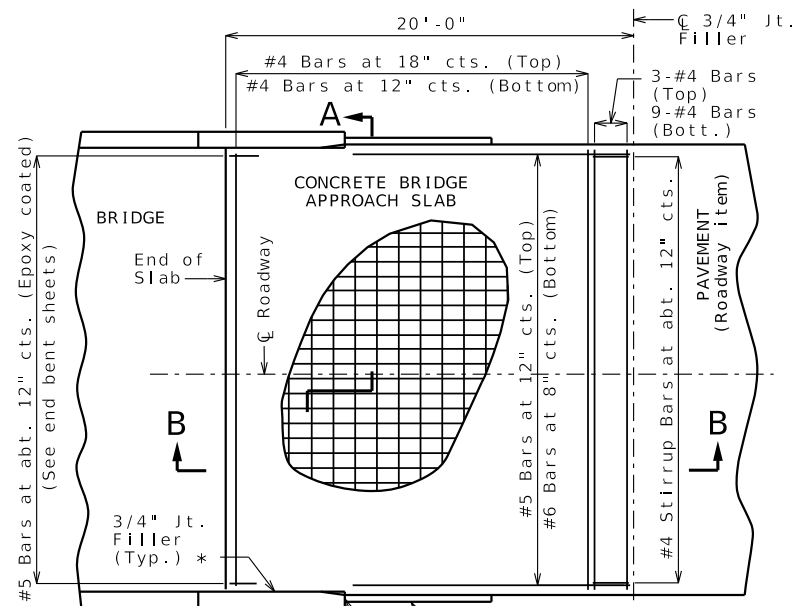
(Left barrier shown, right barrier similar)

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

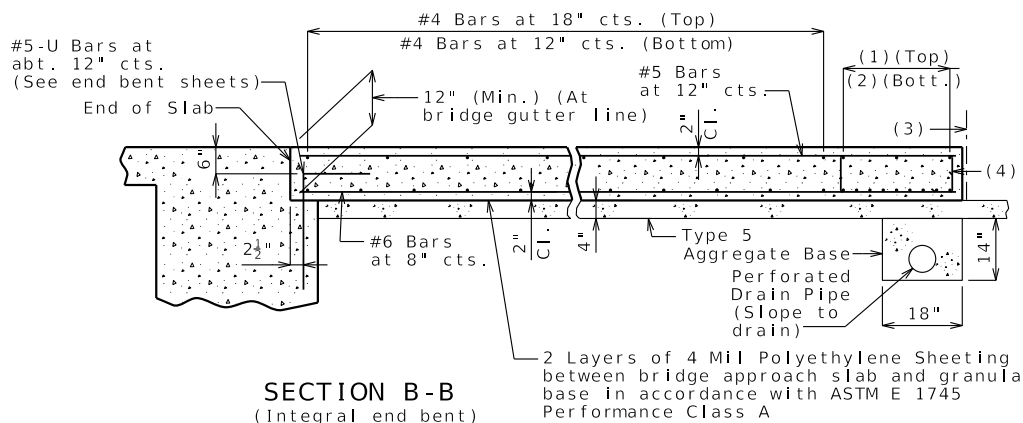
All dimensions are out to out.

Detailed July 2024
 Checked Sep. 2024

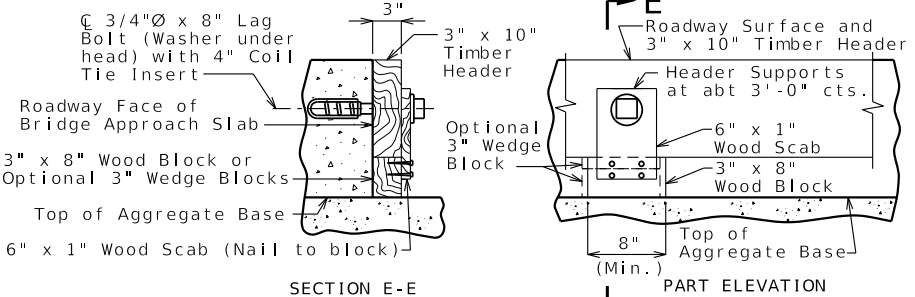
Note: This drawing is not to scale. Follow dimensions. Sheet No. 24 of 31



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



- (1) 3-#4 Bars
- (2) 9-#4 Bars
- (3) 3/4" Jt. Filler
- (4) #4 Stirrup Bars at abt. 12" cts.; 2'-0" x 8" (Min.) out to out; Actual length = 5'-10" (Min.); 90° stirrup hook at bottom; Stirrup height (8") and actual length vary due to crown.



Remove timber header when concrete pavement is placed.

General Notes:

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

All concrete for the bridge approach slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

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

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 23 inches for #4 bars, or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710.

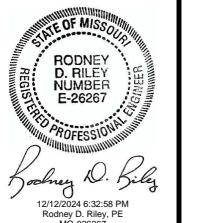
All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

Payment for furnishing all materials, labor and excavation necessary to construct the concrete bridge approach slab, including the timber header, 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 (Minor) per square yard.

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.

See Missouri Standard Plan 609.00 for details of Type A curb.

* 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.



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ROUTE	STATE
E	MO
DISTRICT	SHEET NO.
BR	25
COUNTY	
MONTGOMERY	
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J2S3439	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A9375	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

Jacobs

JACOBS ENGINEERING GROUP
ST. LOUIS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 385-4000
CERTIFICATE NO. #00704



RODNEY D. RILEY
 LICENSE NUMBER E-26267
 MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED
 12-DEC-2024

ROUTE E STATE MO

DISTRICT BR SHEET NO. 26

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9375

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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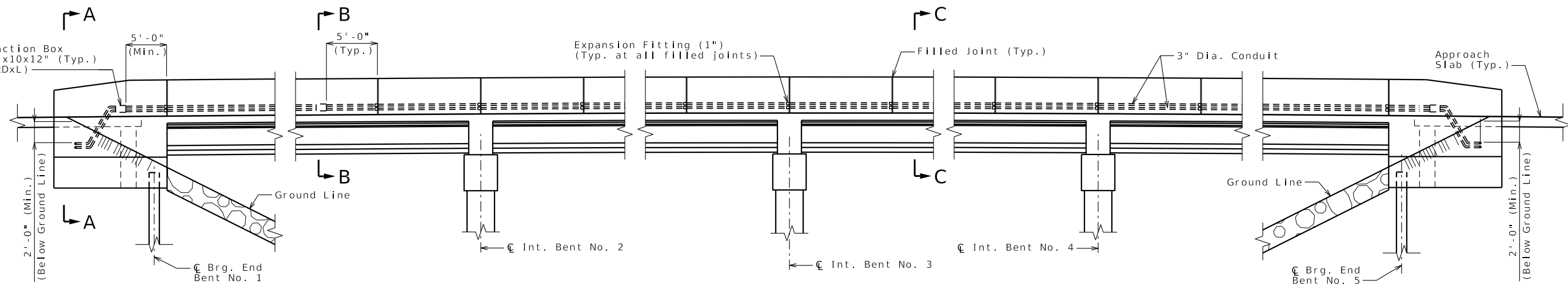
JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST SUITE 400

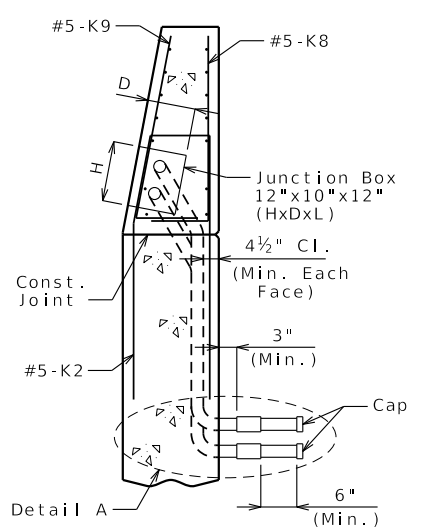
ST. LOUIS, MISSOURI 63110

PHONE: (314) 385-4000

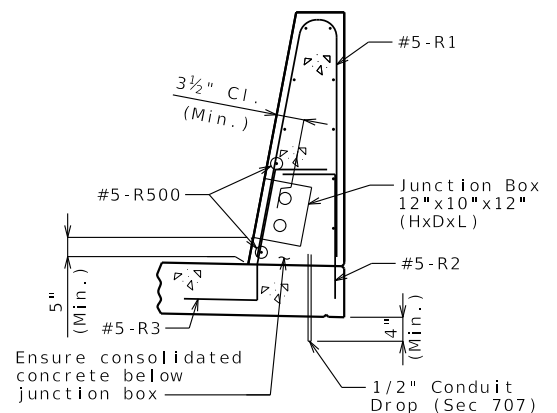
CERTIFICATE AUTHORITY #00704



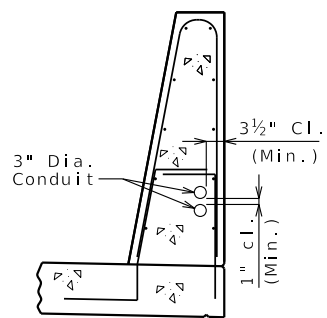
PART ELEVATION OF BARRIER
 SHOWING LOCATION OF CONDUIT
 (Right Barrier Only)



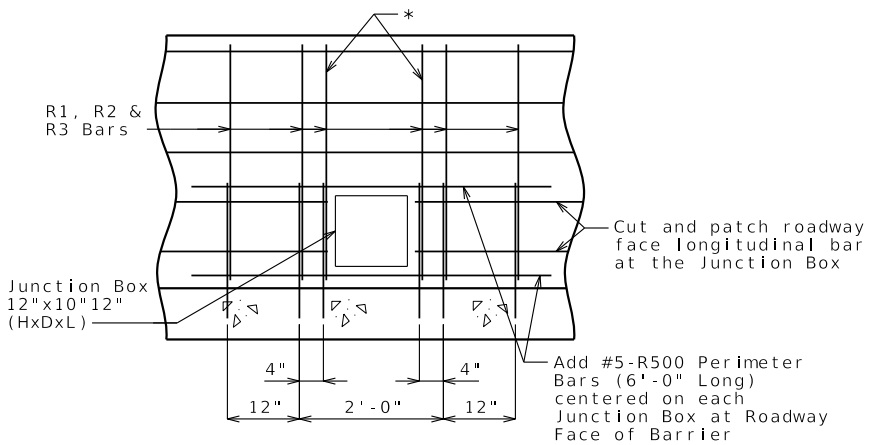
SECTION A-A



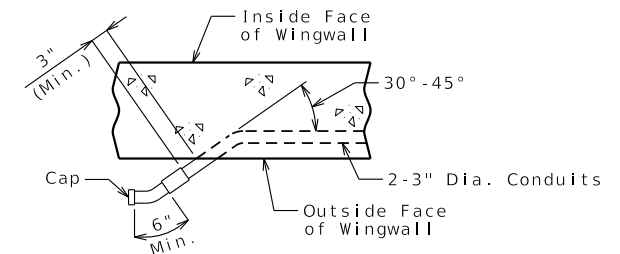
SECTION B-B



SECTION C-C



PART ELEVATION OF SAFETY BARRIER CURB
 SHOWING PERIMETER STEEL AT JUNCTION BOXES
 * At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers or 1 set of #5-K2, #5-K8 and #5-K9 bars in the Wingwall Barriers and shift bars to clear Junction Boxes.



DETAIL A

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 120 degrees F and a maximum temperature of 110 degrees F.

Minimum clearance preferred between conduits placed in the barrier shall be 1".

All end bent and barrier junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the barrier. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the barrier.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements. Expected thermal movement at each deflection coupling is equal to 5/8" of rise and fall from a setting temperature of 60 degrees F.

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.

Junction boxes shall be placed in and at the roadway face of barrier.

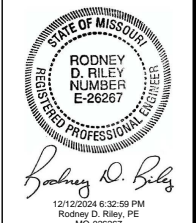
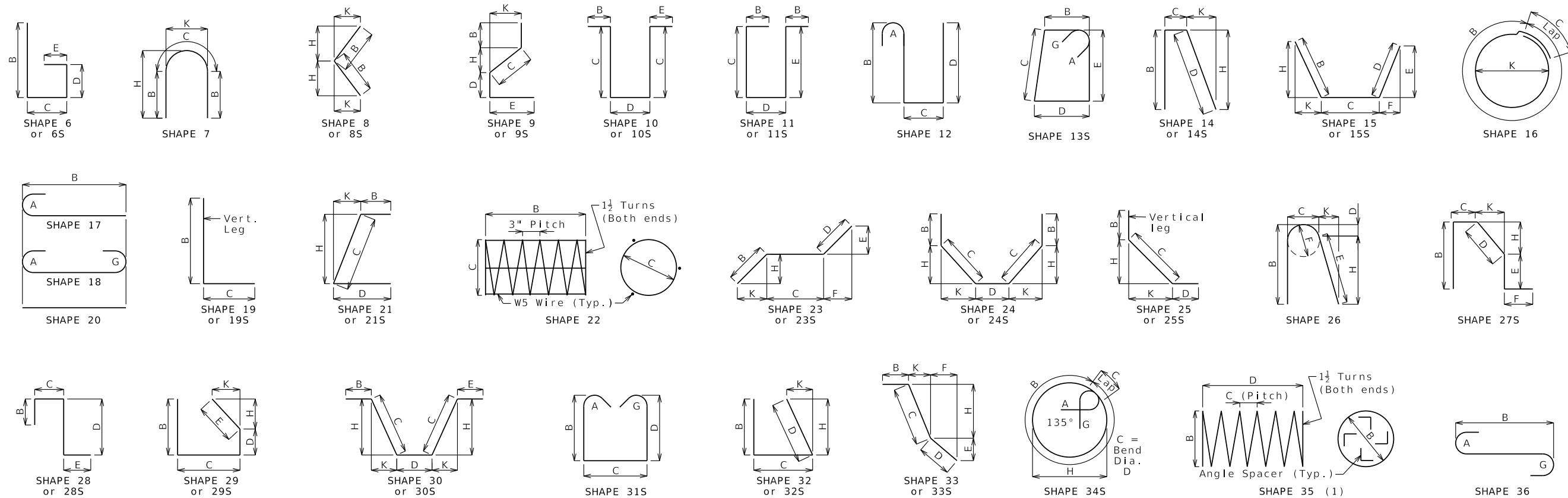
Wiring and fixtures shall be furnished and installed by others.

DETAILS OF CONDUIT SYSTEM

Detailed Aug. 2024
 Checked Oct. 2024

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

Sheet No. 26 of 31



DATE PREPARED
12-DEC-2024
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BR 27
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MONTGOMERY
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PROJECT NO.
BRIDGE NO.
A9375

Finished Bend Diameters D and Hook Dimensions

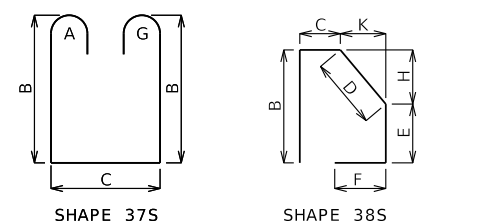
Standard Pin Bend Shapes

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 1/2"	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°		
#4	2	2"	4 1/2"	4 1/2"	5"	2 5/8"	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 3/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 5/8"	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. (1) Shall be a deformed or plain spiral bar or wire.

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.

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.

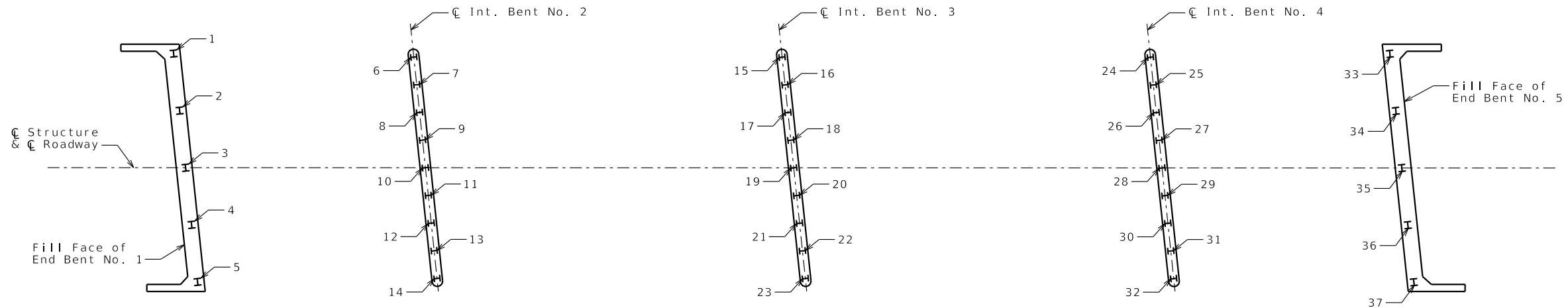
Reinforcing Steel Totals (Pounds)

Size	Substructure		Superstructure			Entire Bridge	
	Plain	Epoxy	Slab		Slip Form	Plain	Epoxy
			Plain	Epoxy			
W5	0	0	0	0	0	0	0
4	0	8,352	0	1,533	0	0	9,885
5	0	2,652	0	16,745	12,942	774	33,113
6	0	3,720	0	42,231	0	0	45,951
7	0	0	0	14,130	0	0	14,130
8	0	0	0	912	0	0	912
9	0	0	0	3,808	0	0	3,808
10	0	0	0	0	0	0	0
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	0	14,724	0	79,359	12,942	774	107,799

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS





PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE DATA

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
End Bent No. 1					
1					
2					
3					
4					
5					
Int. Bent No. 2					
6					
7					
8					
9					
10					
11					
12					
13					
14					

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
Int. Bent No. 3					
15					
16					
17					
18					
19					
20					
21					
22					
23					
Int. Bent No. 4					
24					
25					
26					
27					
28					
29					

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
Int. Bent No. 4 (Cont.)					
30					
31					
32					
End Bent No. 5					
33					
34					
35					
36					
37					

Note:
 Indicate in remarks column:
 A. Pile type and grade
 B. Batter
 C. Driven to practical refusal
 D. PDA test pile
 E. Minimum tip elevation controlled
 (Use when actual blow count is less than PDA blow count due to minimum tip elevation requirement. A plus sign (+) shall be placed after the PDA nominal axial compressive resistance value indicating actual value is higher than PDA value.)

This sheet to be completed by MoDOT construction personnel.

Detailed July 2024
 Checked Oct. 2024

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

Sheet No. 30 of 31

Rodney D. Riley
 12/12/2024 8:33:01 PM
 Rodney D. Riley, PE
 MO-026267

DATE PREPARED		12-DEC-2024	
ROUTE	E	STATE	MO
DISTRICT	BR	SHEET NO.	30
COUNTY			
MONTGOMERY			
JOB NO.			
J2S3439			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A9375			

REV.	DESCRIPTION	DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
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Jacobs
 ENGINEERING GROUP
 1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
 PHONE: (314) 385-4000
 CERTIFICATE OF AUTHORITY #00704



RODNEY D. RILEY
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 Rodney D. Riley, PE
 MO-026267

DATE PREPARED
 12-DEC-2024

ROUTE STATE
 E MO

DISTRICT SHEET NO.
 BR 31

COUNTY
 MONTGOMERY

JOB NO.
 J2S3439

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9375

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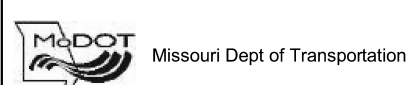
DESCRIPTION

DATE

DESCRIPTION

DATE

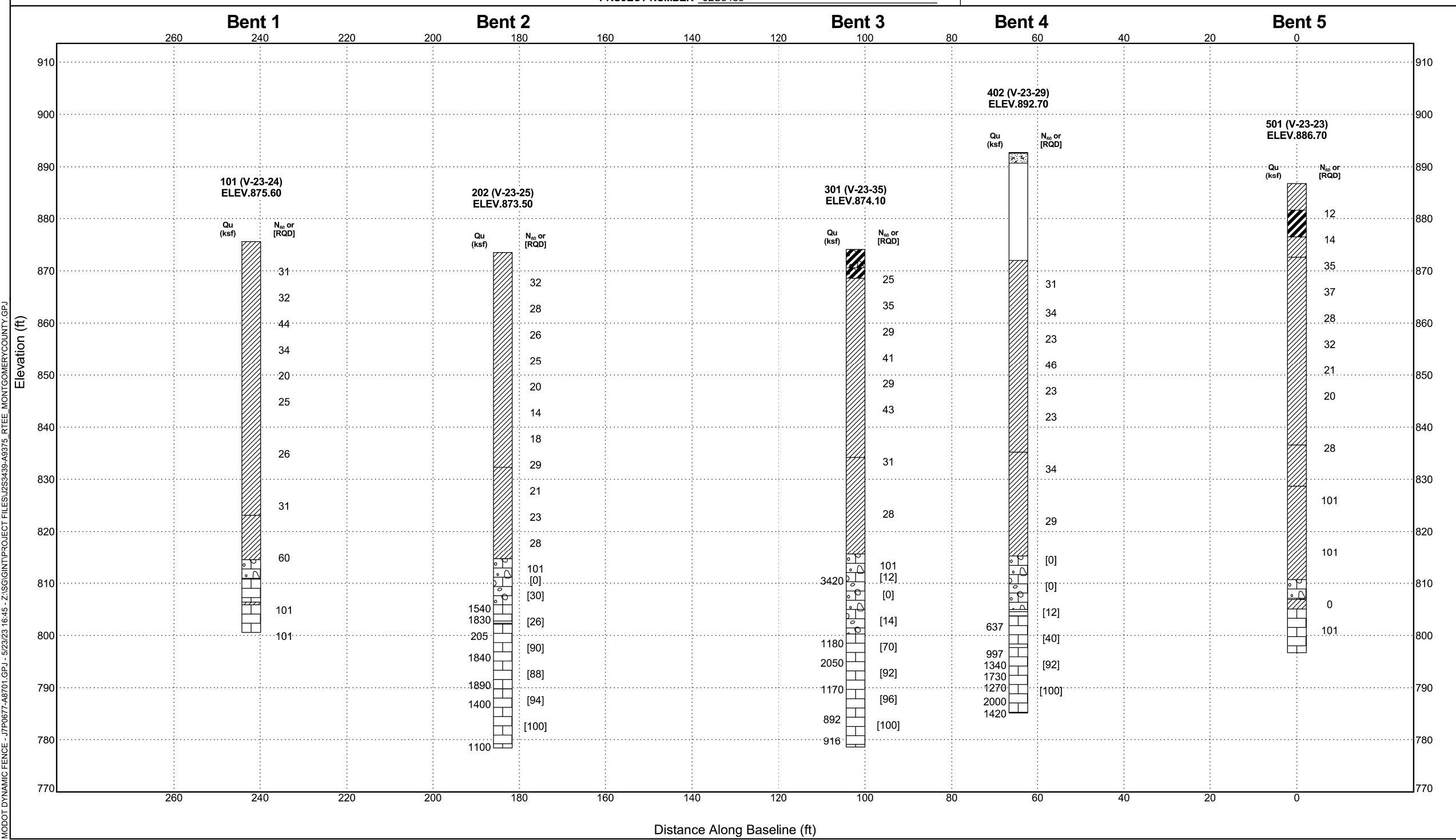
DESCRIPTION



SUBSURFACE DIAGRAM

PROJECT NAME Bridge Replacement-DN
 PROJECT LOCATION Over I-70
 CLIENT _____
 PROJECT NUMBER J2S3439

	USCS Low Plasticity Clay		Highly Weathered Limestone		Limestone
	Shale		USCS High Plasticity Gravelly Clay		Asphalt
	Concrete		USCS High Plasticity Clay		



BORING DATA

Note: For locations of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions. Sheet No. 31 of 31

Detailed Oct. 2024
 Checked Oct. 2024

JACOBS ENGINEERING GROUP
 1001 HIGHLANDS PLAZA, DR. WEST, SUITE 400
 ST. LOUIS, MISSOURI 63110
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 CERTIFICATE AUTHORITY
 #00704

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