MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

PLATTE COUNTY

FOR INFORMATION ONLY

DESIGN DESIGNATION

A.A.D.T. – 2018 = 90,690
A.A.D.T. – 2038 = 100,205
D.H.V. = 10%
T = 5.4%
V = 55 MPH
D = 52/48%

FUNCTIONAL CLASSIFICATION – INTERSTATE

NO
RIGHT OF WAY ACQUISITION

CONVENTIONAL SYMBOLS
(USED IN PLANS)

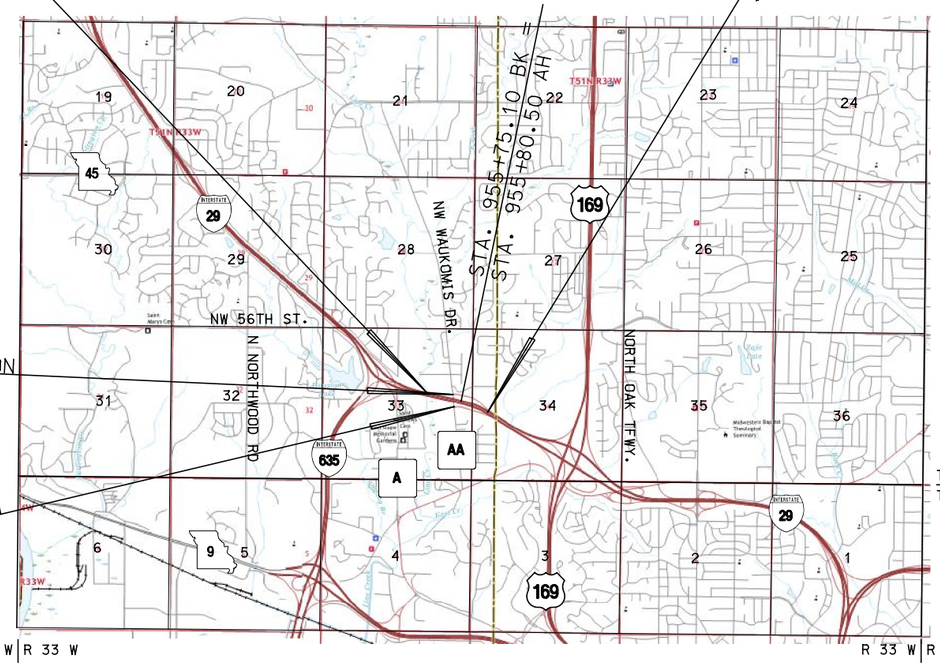
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	FO	FO
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	T	T
OVERHEAD POWER		
UNDERGROUND POWER	P	P
GAS	G	G
WATER	W	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

PROJECT LIMITS
BRIDGE REPLACEMENT, GRADING, DRAINAGE, LIGHTING, SIGNING & PAVING
BRIDGE OVER ROUTE. AA

BEGIN PROJECT
STA. 946+00.00

END PROJECT
STA. 957+30.00



BEGIN CONSTRUCTION
ROUTE AA
STA. 233+22.50

END CONSTRUCTION
ROUTE AA
STA. 239+64.63

1/2 0 1/2 1
SCALE IN MILES

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)(5 TOTAL)	3
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BRIDGE A8785	1-31
BRIDGE A8883	1-8
BRIDGE A8884	1-8

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 946+00.00	
END OF PROJECT	STA. 957+30.00	
APPARENT LENGTH	1,130	FEET
EQUATIONS AND EXCEPTIONS:		
STA. 955+75.10 BK. = STA. 955+80.50 AH.	-5.40	FEET
TOTAL CORRECTIONS	-5.40	FEET
NET LENGTH OF PROJECT	1,124.6	FEET
STATE LENGTH	0.21	MILES

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

DATE PREPARED 7/19/2020
ROUTE I-29 | STATE MO
DISTRICT KC | SHEET NO. 1
COUNTY PLATTE
JOB NO. J4I3297
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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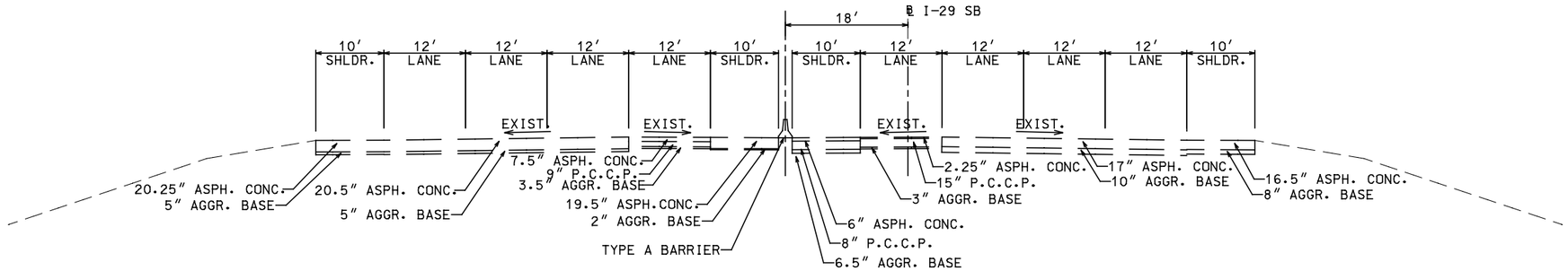
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

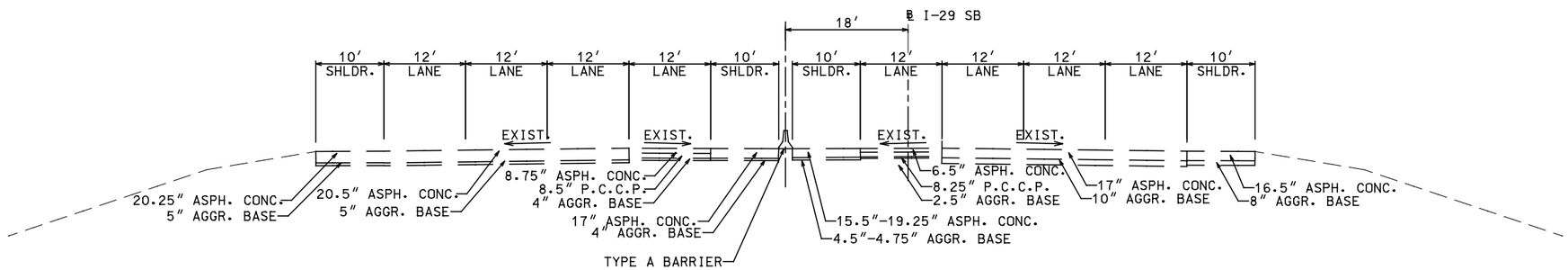
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

REV.



TYPICAL SECTION – I-29
NORTH OF RTE. AA



TYPICAL SECTION – I-29
SOUTH OF RTE. AA

TYPICAL SECTIONS
I-29
SHEET 1 OF 4

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	2
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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BURNS McDONNELL

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Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

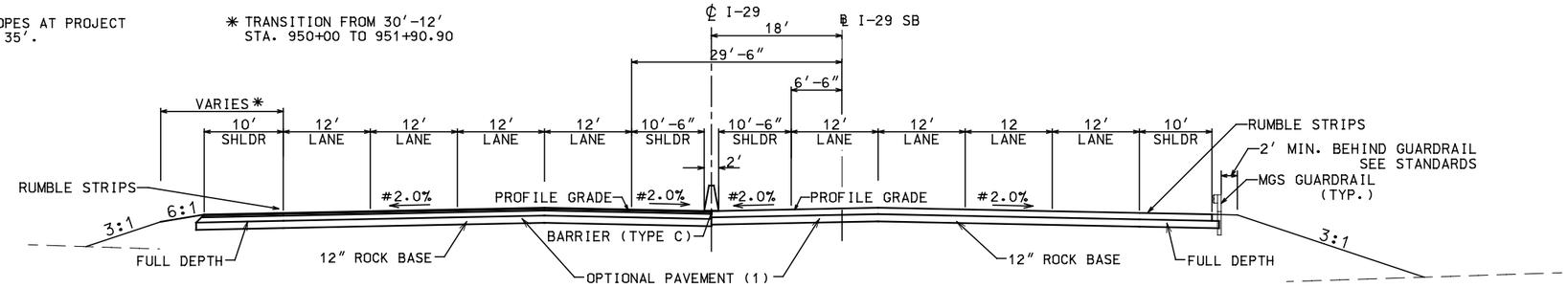
BMcD Project No. 109387

REV.

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\002_TS_01_J413297_I10.dgn 5:37:50 PM 7/19/2020

MATCH EXIST. PAVEMENT CROSS SLOPES AT PROJECT TERMINI TRANSITION TO 2.00% IN 35'.

✳ TRANSITION FROM 30'-12' STA. 950+00 TO 951+90.90



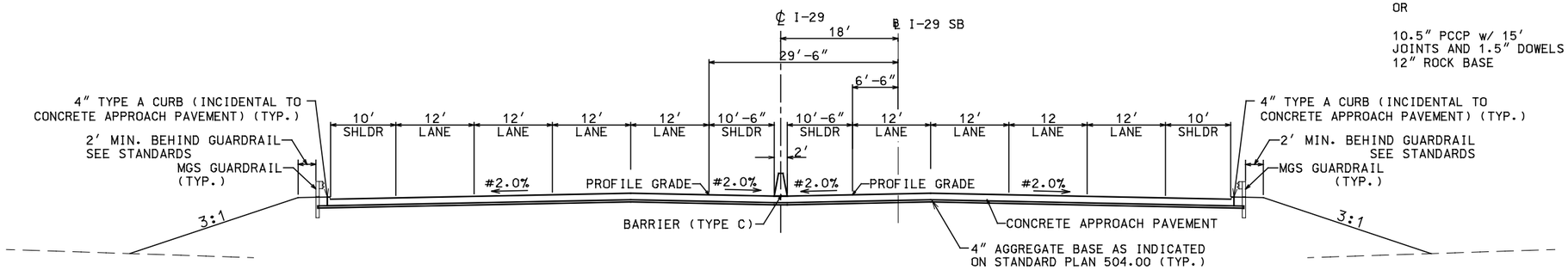
TYPICAL SECTION - I-29

STA. 950+00 TO 951+67.30 N.B.L. ℄ I-29 SB
STA. 950+00 TO 951+90.82 S.B.L. ℄ I-29 SB

(1) OPTIONAL PAVEMNT:
1.75" SP125BSM w/PG 76-22
3" SP250B w/PG 76-22
8.25" SP250C w/PG 64-22
12" ROCK BASE

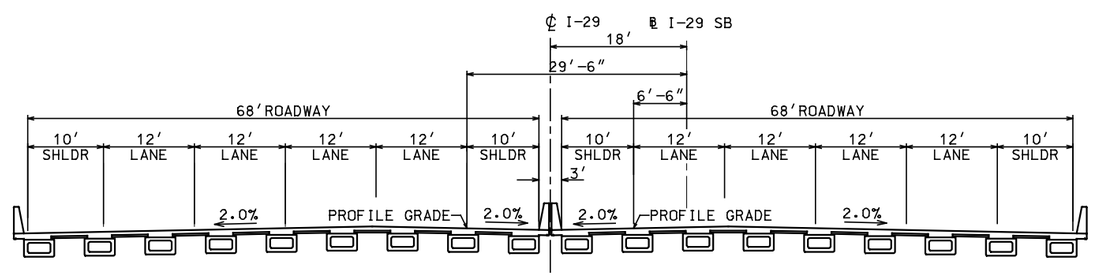
OR

10.5" PCCP w/ 15' JOINTS AND 1.5" DOWELS
12" ROCK BASE



TYPICAL SECTION - I-29

STA. 951+67.30 TO 953+41.46 N.B.L. ℄ I-29 SB
STA. 951+90.82 TO 953+65.00 S.B.L. ℄ I-29 SB



BRIDGE SECTION - I-29
(FOR INFORMATION ONLY: SEE BRIDGE PLANS FOR CONSTRUCTION)
STA. 952+12.63 TO 952+96.36 N.B.L. ℄ I-29 SB
STA. 952+35.93 TO 953+19.66 S.B.L. ℄ I-29 SB

TYPICAL SECTIONS
I-29
SHEET 2 OF 4

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DATE PREPARED	
7/19/2020	
ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	2
COUNTY	
PLATTE	
JOB NO.	
J4I3297	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DATE	DESCRIPTION
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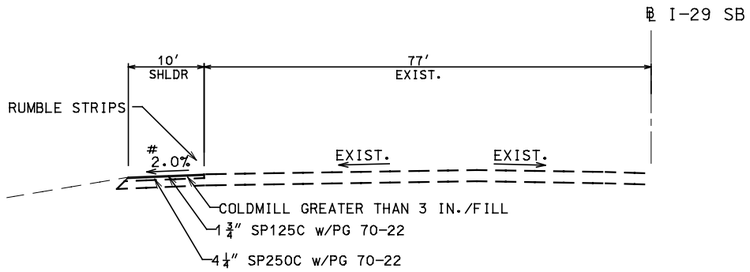
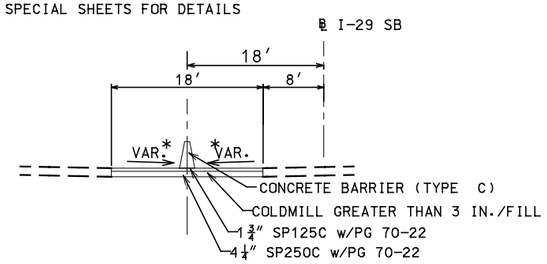
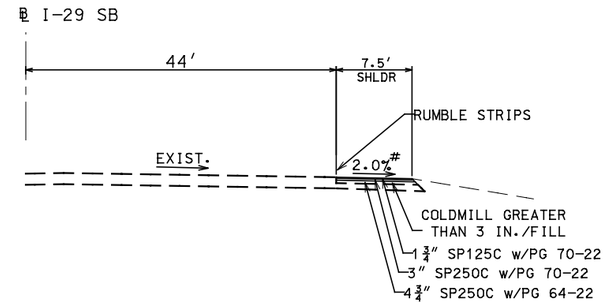


TYPICAL SECTION – I-29
STA. 953+17.00 TO 956+53.30 ℄ I-29 SB

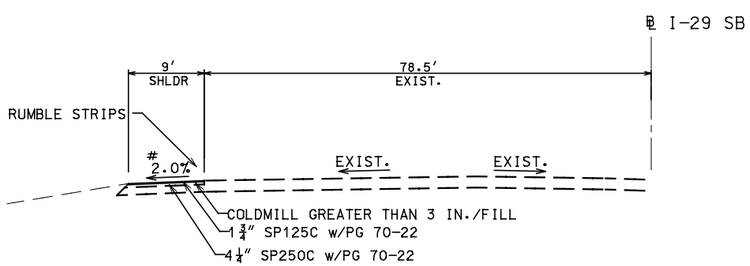
*SEE SPECIAL SHEETS FOR DETAILS



TYPICAL SECTION – I-29
STA. 953+75 TO 957+30 ℄ I-29 SB

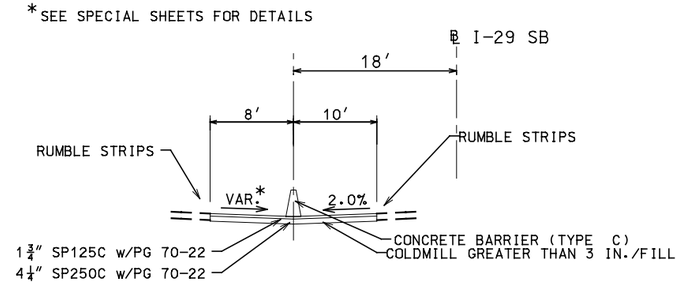


TYPICAL SECTION – I-29
STA. 953+65.00 to 955+00 ℄ I-29 SB

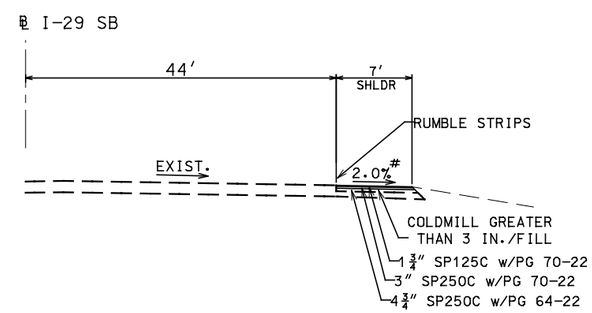


TYPICAL SECTION – I-29
STA. 948+50 to 951+96.53 ℄ I-29 SB

*SEE SPECIAL SHEETS FOR DETAILS



TYPICAL SECTION – I-29
STA. 946+00 to 949+90 ℄ I-29 SB



TYPICAL SECTION – I-29
STA. 948+50 to 950.00 ℄ I-29 SB

ESTIMATE FACTORS FOR ASPHALTIC MIXTURES
(FOR INFORMATIONAL PURPOSES ONLY)

ASPHALTIC CONCRETE MIXTURE (TYPE SP125) = 1.927 TON/CY
ASPHALTIC CONCRETE MIXTURE (TYPE SP250) = 1.946 TON/CY
MILL/OVERLAY TACK COAT = 0.1 GAL/CY

TYPICAL SECTIONS
I-29
SHEET 3 OF 4

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	2
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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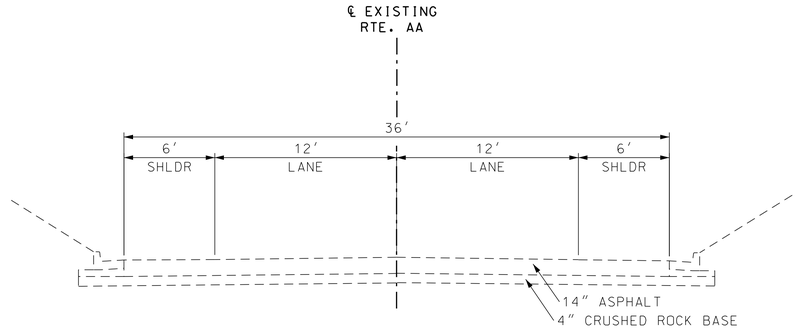
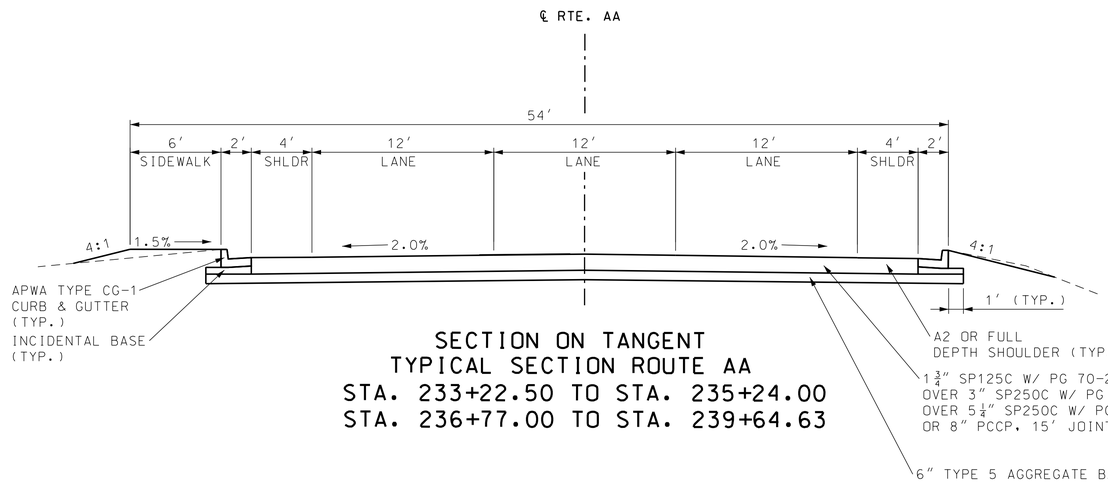
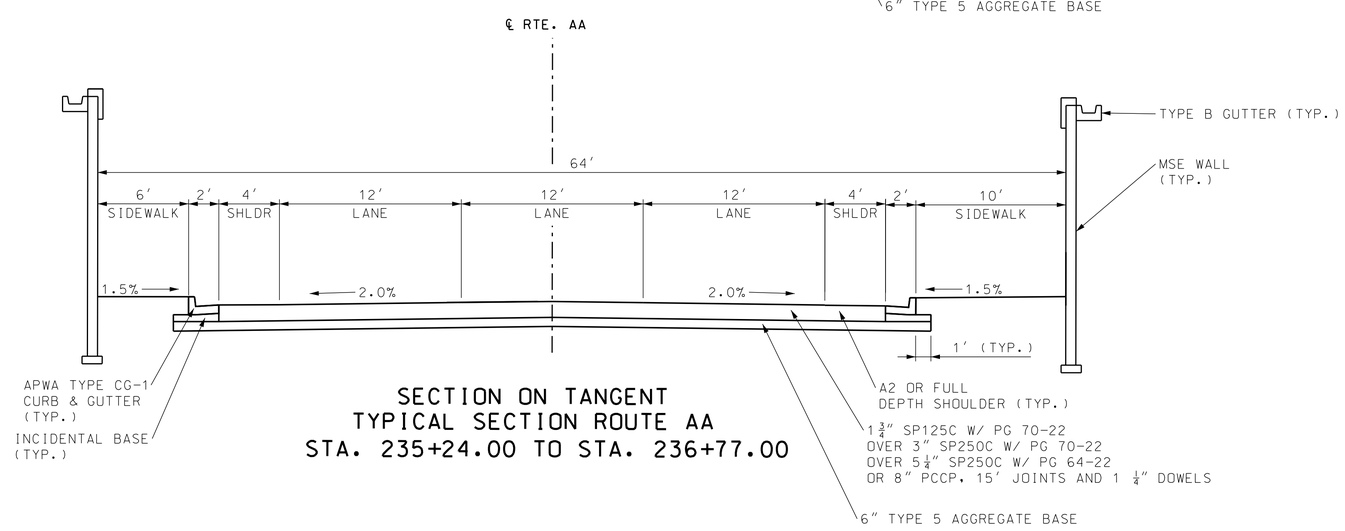


EXISTING SECTION ROUTE AA



SECTION ON TANGENT
TYPICAL SECTION ROUTE AA
STA. 233+22.50 TO STA. 235+24.00
STA. 236+77.00 TO STA. 239+64.63



SECTION ON TANGENT
TYPICAL SECTION ROUTE AA
STA. 235+24.00 TO STA. 236+77.00

TYPICAL SECTION
ROUTE AA
SHEET 4 OF 4

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	2
COUNTY	PLATTE
JOB NO.	J4I3297
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)

1411 East 104th St.
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
www.trekdesigngroup.com
Missouri Cert. of Authority 2002010300
TREK DESIGN GROUP, LLC

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CONTRACTOR FURNISHED SURVEYING & STAKING	
LOCATION	QUANTITY (L.S.)
PROJECT	1
PAY TOTAL:	1

MOBILIZATION	
LOCATION	QUANTITY (L.S.)
PROJECT	1
PAY TOTAL:	1

REMOVAL OF IMPROVEMENTS

SHEET	STATION	TO	STATION	LOCATION	ROUTE	DESCRIPTION	AMOUNT	UNITS	REMARKS
53	946+00.00		949+90.00	INSIDE SHLD.	I-29	ASPHALT PAVEMENT	780	SY	CROSSOVER TO A2 SHOLDER
53	953+75.00		957+30.00	INSIDE SHLD.	I-29	ASPHALT PAVEMENT	710	SY	CROSSOVER TO A2 SHOLDER
53	946+00.00		949+90.00	LT	I-29	EXISTING TRAFFIC BARRIER	390	LF	
53	953+75.00		957+30.00	LT	I-29	EXISTING TRAFFIC BARRIER	355.00	LF	
53	950+00.00		952+05.82	LT	I-29	EXISTING TRAFFIC BARRIER	206.00	LF	
53	951+85.82		953+75.00	LT	I-29	EXISTING TRAFFIC BARRIER	11.00	LF	
53	949+51.32		952+38.82	RT	I-29 SB	EXISTING GUARDRAIL	288.00	LF	
53	952+93.47		953+80.97	LT	I-29 NB	EXISTING GUARDRAIL	88.00	LF	
53	950+00.00		951+67.29	LT	I-29 NB	ASPHALT PAVEMENT	1294	SY	
53	950+00.00		957+56.16	RT	I-29 SB	ASPHALT PAVEMENT	1475	SY	
53	951+67.29		952+05.33	LT	I-29 NB	ASPHALT PAVEMENT	205	SY	APPROACH PAVEMENT
53	951+90.82		952+28.30	RT	I-29 SB	ASPHALT PAVEMENT	200	SY	APPROACH PAVEMENT
53	953+0399		953+41.46	LT	I-29 NB	ASPHALT PAVEMENT	200	SY	APPROACH PAVEMENT
53	953+26.96		953+65.00	RT	I-29 SB	ASPHALT PAVEMENT	205	SY	APPROACH PAVEMENT
53	952+14.80				I-29 SB	8" CMP			
6	15+39			RAMP 3		SAWCUT	42	LF	
6	15+62			RAMP 3		SIGN	1	EA	
6	15+64			RAMP 3		SIGN	1	EA	
6	15+67			RAMP 3		ISLAND	23	SY	
7	0+41			RAMP 4		ISLAND	93	SY	
7	0+60			RAMP 4		SAWCUT	57	LF	
7	0+88			RAMP 4		SIGN	1	EA	
6	233+23		239+65	RTE AA		CURB	642	LF	
6	233+23			RTE AA		SAWCUT	51	LF	
6	233+34			RTE AA		SIGN	1	EA	
6	233+78			RTE AA		DROP INLET	1	EA	
6	233+80		234+48	RTE AA		12' PIPE	68	EA	
6	234+25		238+19	RTE AA		CURB	408	LF	
6	234+50			RTE AA		DROP INLET	2	EA	
6	234+50			RTE AA		24" PIPE	83	LF	
6	234+50			RTE AA		24" FLARED END SECTION	1	EA	
6	234+52		235+23	RTE AA		12" PIPE	72	LF	
6	234+52		235+12	RTE AA		12" PIPE	60.0	LF	
6	234+59			RTE AA		SIGN	1	EA	
6	235+00			RTE AA		SIGN	1	EA	
6	235+14			RTE AA		DROP INLET	1	EA	
6	235+25			RTE AA		DROP INLET	1	EA	
7	237+57			RTE AA		SIGNS	2	EA	
7	237+58			RTE AA		SIGNS	3	EA	
7	238+20			RTE AA		SIGN	1	EA	
7	238+52			RTE AA		SIGN	1	EA	
7	239+00			RTE AA		SIGN	1	EA	
7	239+58			RTE AA		SIGN	1	EA	
7	239+65			RTE AA		SAWCUT	40	LF	
					PAY TOTAL	1 LUMP SUM	1	LS	

CLEARING & GRUBBING

SHEET NO	STATION RANGE	LOCATION	CLEARING & GRUBBING (ACRES)	REMARKS
4	902+76.44 TO 906+07.67	R/O & I-29 S.B.L	0.00	
6-7		56TH ST	0.25	
		TOTAL:	0.25	
		PAY:	1.00	Round up to nearest acre

SUMMARY OF QUANTITIES
SHEET 1 OF 6

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DATE PREPARED 7/19/2020

ROUTE I-29 | STATE MO

DISTRICT KC | SHEET NO. 3

COUNTY PLATTE

JOB NO. J4I3297

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
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EARTHWORK SUMMARY

SHEET	STATION	TO	STATION	LOCATION	CLASS A EXC.	CLASS C EXC. (C.Y.)	COMPACTED EMBANKMENT (C.Y.)	REMARKS
4	950+00.00	TO	953+65.00	I-29 SB	4171.4	180.1	1054.0	PHASE 2, INCLUDES PARTIAL EXCAVATION OF WALL A8883 (CLASS A 1550 CY) & WALL A8884 (CLASS A 1621 CY, CLASS C 180 CY)
4	950+00.00	TO	953+41.46	I-29 SB	3876.0	145.2	754.0	PHASE 3, INCLUDES PARTIAL EXCAVATION OF WALL A8883 (CLASS A 1705 CY) & WALL A8884 (CLASS A 1307 CY, CLASS C 145 CY)
6-7	232+22.50		239+64.63	RTE AA	2634		64	PHASE 5
VAR.	VAR.			VAR.	100.0			ROUNDING & MISCELLANEOUS GRADING
				TOTAL & PAY:	10,781	325	1,872	

PAVEMENT 1/2

SHEET	STATION	TO	STATION	LOCATION	AVERAGE SHDR. LT. WIDTH	AVERAGE PAVEMENT WIDTH	AVERAGE SHDR. RT. WIDTH	AREA	I-29 OPTIONAL PAVEMENT	12" ROCK BASE	COMPACTED IN CUT	REMARKS
					(FT.)	(FT.)	(FT.)	(SF)	(S.Y.)	(C.Y.)	(STA)	
4	950+00.00	TO	951+90.82	S.B.L	10.0	48.0	11.5	13261.99	1473.55	491.18	1.91	Phase 2
4	950+00.00	TO	951+67.30	N.B.L	11.5	48.0	10.0	11627.35	1291.93	430.64	1.67	Phase 3
							TOTAL & PAY TOTAL:		2765.0	922.0	4.0	
									2765.0	922.0	4.0	

PAVEMENT 2/2

SHEET	STATION	TO	STATION	LOCATION	SIDE	A2 SHOULDER	TYPE 5 AGGREGATE BASE (6 IN.)	OPTIONAL PAVEMENT (ROUTE AA)	REMARKS
						(S.Y.)	(S.Y.)	(S.Y.)	
6-7	233+22.50	TO	239+64.63	ROUTE AA	BOTH		3341	3008.5	INCLUDES BASE FOR C&G
6	233+22.50		233+46.91	ROUTE AA	LT	28.2	28		
7	239+32.51	TO	239+64.63	ROUTE AA	LT	19.7	20		
6	15+39.16	TO	15+79.72	RAMP 3	BOTH		240	216.2	INCLUDES BASE FOR C&G
6	15+39.16	TO	15+57.09	RAMP 3	RT	10.6	11		
6	15+39.16	TO	15+50.54	RAMP 3	LT	8.4	8		
7	0+21.03	TO	0+60.00	RAMP 4	BOTH		367	342.4	INCLUDES BASE FOR C&G
7	0+41.23	TO	0+60.00	RAMP 4	LT	12.9	13		
7	0+46.26	TO	0+60.00	RAMP 4	RT	7.3	7		
				TOTAL & PAY TOTAL		87.1	4035.3	3567.1	
						88.0	4036.0	3568.0	

MILL AND FILL

SHEET	STATION	TO	STATION	LOCATION	AVERAGE SHDR. LT. WIDTH	AVERAGE PAVEMENT WIDTH	AVERAGE SHDR. RT. WIDTH	AREA	PAVEMENT	TACK COAT	Layer 1 1.75" SP125Cw/PG70-22	Layer 2 3" SP250Cw/PG70-22	Layer 2 4.25" SP250C w/PG 70-22	Layer 3 4.75" SP250C w/PG 64-22	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF	REMARKS
					(FT.)	(FT.)	(FT.)	(S.F.)	(S.Y.)	Gal	(TONS)	(TONS)	(TONS)	(TONS)	(S.Y.)	
4	946+00.00	TO	949+90.00	INSIDE SHLDS N&S.B.L	0.0	18.0	0.0	7020.00	780.00	78.00	73.15	-	179.11	-	780.00	Phase 1
4	948+50.00	TO	951+96.53	OUTSIDE SHLD N.B.L	9.0	0.0	0.0	3118.77	346.53	34.65	32.50	-	79.57	-	346.53	Phase 1
4	953+17.00	TO	956+53.30	OUTSIDE SHLD N.B.L	10.0	0.0	0.0	3363.00	373.67	37.37	35.04	-	85.80	-	373.67	Phase 1
4	953+75.00	TO	957+30.00	INSIDE SHLDS N&S.B.L	0.0	18.0	0.0	6390.00	710.00	71.00	66.58	-	163.04	-	710.00	Phase 1
4	948+50.00	TO	950+00.00	OUTSIDE SHLD S.B.L	0.0	0.0	7.5	1125.00	125.00	12.50	11.72	20.27	-	32.11	125.00	Phase 2
4	953+65.00	TO	955+00.00	OUTSIDE SHLD S.B.L	0.0	0.0	7.0	945.00	105.00	10.50	9.85	17.03	-	26.97	105.00	Phase 2
							TOTAL & PAY TOTAL:	19891.8	2210.2	233.5	228.8	37.3	507.5	59.1	2440.2	
										234.0	229.0	38.0	508.0	60.0	2441.0	

SIDEWALK

SHEET	STATION	TO	STATION	LOCATION	SIDE	CONCRETE CURB RAMP (SY)	TRUNCATED DOMES (SF)	CONCRETE SIDEWALK (SY)
6	233+46.41		233+81.81	RTE AA	LT	4.6	12	23.0
6-7	234+27.33		238+28.89	RTE AA	LT	10.1	28	262.9
7	238+48.87		238+89.51	RTE AA	LT		31	24.1
7	238+97.22		239+33.12	RTE AA	LT	4.5	13	23.3
6-7	235+24.00		236+77.00	RTE AA	RT			170.0
				PAY TOTAL:		19.20	83.60	503.30
						20.00	84.00	504.00

BRIDGE APPROACH PAVEMENT

SHEET	STATION	TO	STATION	LOCATION	AVERAGE SHDR. LT. WIDTH	AVERAGE PAVEMENT WIDTH	AVERAGE SHDR. RT. WIDTH	CONCRETE APPROACH PAVEMENT (504-10.00)	TYPE 5 AGGREGATE BASE (4 IN.)	COMPACTED IN CUT	REMARKS
					(FT.)	(FT.)	(FT.)	(S.Y.)	(S.Y.)	(STA)	
4	951+90.82	TO	952+28.30	S.B.L	10.3	48.0	11.5	203.09	315.53	0.37	Phase 2
4	953+26.46	TO	953+65.00	S.B.L	10.3	48.0	11.5	211.20	326.82	0.39	Phase 2
	951+67.30	TO	952+05.33	N.B.L	11.5	48.0	10.3	198.69	312.78	0.38	Phase 3
4	953+04.00	TO	953+41.46	N.B.L	11.5	48.0	10.3	198.25	310.63	0.37	Phase 3
						TOTAL & PAY TOTAL:		811.2	1265.8	1.5	
								812.0	1266.0	1.5	

SUMMARY OF QUANTITIES
SHEET 2 OF 6

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DATE PREPARED 7/19/2020

ROUTE I-29 | STATE MO
DISTRICT KC | SHEET NO. 3
COUNTY PLATTE
JOB NO. J4I3297
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

CURB AND GUTTER						
SHEET	STATION	TO	STATION	LOCATION	SIDE	CURB AND GUTTER APWA TYPE CG-1
						(LF)
6	233+46.41		233+81.81	RTE AA	LT	42
6-7	234+27.33		238+28.89	RTE AA	LT	418
7	238+97.22		239+33.12	RTE AA	LT	42
6-7	233+22.50		239+64.63	RTE AA	RT	643
				PAY TOTAL:		1144.30
						1145.00

MODIFIED TYPE B GUTTER						
SHEE	STATION	TO	STATION	LOCATION	MODIFIED TYPE B GUTTER (L.F.)	REMARKS
6-7	235+20.0	TO	237+69.54	L/O ROUTE AA	229.24	ON TOP OF MSE WALL A8884
6-7	234+67.5	TO	237+44.29	R/O ROUTE AA	276.75	ON TOP OF MSE WALL A8883
				TOTAL	505.99	
				PAY	506	

GUARDRAIL									
SHEET	STATION	TO	STATION	LOCATION	MGS GUARDRAIL	MSG BRIDGE APPROACH TRANS. SECTION (EXTENDED CURB)	MSG BRIDGE APPROACH TRANS. SECTION ((REGULAR/NO CURB)	MGS HEIGHT AND BLOCK TRANSITION	CLASS 1 LINEAR GRADING
					(LF)	(EACH)	(EACH)	(EACH)	(STA)
6	949+51.32	TO	952+38.82	R/O I-29 S.B.L	225	1		1	0.5
6	952+93.47	TO	953+80.97	L/O I-29 N.B.L	25		1	1	0.4
			PAY TOTAL:		250	1	1	2	0.90

CONCRETE TRAFFIC BARRIER						
SHEET	STATION	TO	STATION	LOCATION	CONCRETE TRAFFIC BARRIER, (LF)	REMARKS
6	946+00.00	TO	949+90.00	CL I-29	390.00	
6	950+00.00	TO	952+05.00	CL I-29	206.00	
6	953+26.96	TO	955+75.10	CL I-29	248.14	Back Eq
7	955+80.50	TO	957+30.00	CL I-29	150.53	Ah EQ
PAY TOTAL:					994.67 995.00	

CONCRETE TRAFFIC BARRIER TRANSITION						
SHEET	STATION	TO	STATION	LOCATION	CONCRETE TRAFFIC BARRIER	NOTES
					(EA)	
13	945+80.00		946+00.00	L/O BL I-29 SB	1.00	TYPE A TO TYPE C
13	949+71.00		949+91.00	L/O BL I-29 SB	1.00	FLUSH WITH SIGN TRUSS
13	949+98.14		950+18.14	L/O BL I-29 SB	1.00	FLUSH WITH SIGN TRUSS
13	951+85.82		952+05.82	L/O BL I-29 SB	1.00	TYPE C TO TYPE D
13	953+26.46		953+46.46	L/O BL I-29 SB	1.00	TYPE D TO TYPE C
13	957+10.00		957+30.00	L/O BL I-29 SB	1.00	TYPE C TO TYPE A
PAY TOTAL:					6.00	

RUMBLE STRIPS						
SHEE	STATION	TO	STATION	LOCATION	RUMBLE (STA)	REMARKS
4	48+50.0	TO	51+85.6	BL I-29	3.36	NB OUTSIDE SHOULDER
4	53+07.3	TO	55+75.0	BL I-29	2.68	NB OUTSIDE SHOULDER BEFORE EQ
4	55+80.5	TO	56+55.0	BL I-29	0.75	NB OUTSIDE SHOULDER AFTER EQ
4	46+00.0	TO	52+05.6	BL I-29	12.11	NB & SB INSIDE SHOULDERS
4	53+23.1	TO	53+41.4	BL I-29	0.18	NB INSIDE SHOULDER
4	53+75.0	TO	55+75.0	BL I-29	2.00	NB OUTSIDE SHOULDER BEFORE EQ
4	55+80.5	TO	57+30.0	BL I-29	1.50	NB OUTSIDE SHOULDER AFTER EQ
4	53+27.0	TO	53+65.0	BL I-29	0.38	SB INSIDE SHOULDER
4	53+75.0	TO	55+75.0	BL I-29	2.00	SB OUTSIDE SHOULDER BEFORE EQ
4	55+80.5	TO	57+30.0	BL I-29	1.50	SB OUTSIDE SHOULDER AFTER EQ
4	48+50.0	TO	52+28.6	BL I-29	3.78	SB OUTSIDE SHOULDER
4	53+46.6	TO	55+00.0	BL I-29	1.53	SB OUTSIDE SHOULDER
				TOTAL	31.76	
				PAY	31.80	

MEDIAN STRIP						
SHEET	STATION	TO	STATION	LOCATION	SIDE	8 IN
						(SY)
6	15+54.92	TO	15+64.91	RAMP 3	LT	6.9
6	15+67.59	TO	15+76.58	RAMP 3	LT	10.0
7	0+23.00	TO	0+27.00	RAMP 4	CL	18.6
7	0+33.00	TO	0+57.65	RAMP 4	CL	44.1
					PAY TOTAL:	79.60
						80.00

CHAIN LINK FENCE (48")						
SHEE	STATION	TO	STATION	LOCATION	48" FENCE (L.F.)	REMARKS
4	235+20.0	TO	235+49.41	L/O ROUTE AA	33.85	ON TOP OF MSE WALL A8884
4	236+94.7	TO	237+44.29	L/O ROUTE AA	74.78	ON TOP OF MSE WALL A8884
4	234+67.5	TO	235+24.40	R/O ROUTE AA	56.86	ON TOP OF MSE WALL A8883
4	236+72.7	TO	237+44.29	R/O ROUTE AA	71.54	ON TOP OF MSE WALL A8883
				TOTAL	237.03	
				PAY	238	

SUMMARY OF QUANTITIES
SHEET 3 OF 6

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COUNTY PLATTE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

BURNS McDONNELL
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165

BMcD Project No. 109387

STORM SEWER & DRAIN BASINS					
SHEET	STATION	LOCATION	DRAIN BASIN (EACH)	REMARKS	REMARKS
4	952+19.61	R/O CL I-29	1		
4	951+73.54	L/O CL I-29	1		
TOTAL:			2.0		
PAY:			2.0		

DRAINAGE TABLE 1 OF 2									
SHEET	STATION	OFFSET (FT)	LOCATION	ID	PRECAST APWA DROP INLET		GROUP B FES 24"	ROCK LINING	CLASS 3 EXC.
					TYPE 1 (EA)	TYPE 2 (EA)	(EA)	(CY)	(CY)
6	234+49.97	25.50' LT	RTE AA	A1	1				12
6	233+78.15	23.82' RT	RTE AA	A2	1				8
6	235+13.47	25.50' RT	RTE AA	A3	1				8
6	234+52.59	24.00' LT	RTE AA	A4		1			11
6	235+25.16	25.50' LT	RTE AA	A5	1				8
6	234+49.97	43.45' RT	RTE AA	A6 OUT			1	3	
				PAY TOTAL:	4.00	1.00	1.00	3.00	47.00
					4.00	1.00	1.00	3.00	47.00

DRAINAGE TABLE 2 OF 2										
SHEET	STATION	OFFSET (FT)	LOCATION	ID	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	GROUP A PIPE	GROUP B PIPE		CLASS 3 EXCAVATION
							24" (LF)	15" (LF)	24" (LF)	(CY)
6				P-S1	EX	A4			22.0	13.0
6				P-T1	A4	A1	50.0			41.0
6				P-T3	A1	A6OUT			15.0	7.0
6				P-T2	A5	A4		68.0		36.0
6				P-T4	A2	A1		67.0		33.0
6				P-T5	A3	A1		59		33
						PAY TOTAL:	50.00	194.00	37.00	163.00
							50.00	194.00	37.00	163.00

TYPE 2 ROCK BLANKET							
SHEE	STATION	TO	STATION	LOCATION	FURNISH TYPE 2 ROCK BLANKET (C.Y.)	PLACE TYPE 2 ROCK BLANKET (C.Y.)	REMARKS
4	235+46.41	TO	236+96.17	L/O ROUTE AA	18.47	18.47	ON TOP OF MSE WALL A8884
4	235+23.00	TO	236+72.20	R/O ROUTE AA	18.47	18.47	ON TOP OF MSE WALL A8883
				TOTAL	36.93	36.93	
				PAY	37	37	

SUMMARY OF QUANTITIES
SHEET 4 OF 6

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PERMANENT PAVEMENT MARKINGS

SHEET	STATION	TO	STATION	LOCATION	4" WHITE STANDARD WATERBORNE PVMT MARKING PAINT WITH TYPE P BEADS (LF)	4" YELLOW STANDARD WATERBORNE PVMT MARKING PAINT WITH TYPE P BEADS	PREFORMED THERMOPLASTIC PAVEMENT				
							6" SOLID WHITE (LF)	24" WHITE STOP BAR (LF)	24" YELLOW HASH MARKS (LF)	12" YIELD LINE TRIANGLES (EA)	LEFT/RIGHT ARROW (EA)
	231+82		233+48	RTE AA	332	577			20		
	233+48		234+50	RTE AA	269	373	80.0	14	16	7	
	234+50		236+00	RTE AA	301	499			25		
	236+00		238+06	RTE AA	612	416					2
	238+06		240+06	RTE AA	527	626	90.0		20	9	
			TOTAL & PAY:		2041.0	2491.0	170.0	14.0	81.0	16.0	2.0

LIGHTING

SHEET	STATION	TO	STATION	LOCATION	SIDE	POLE FOUNDATION 45 FT M.H. (EA)	RELOCATED POLE (EA)	CABLE CONDUIT 1IN 6 AWG (LT)	PREFORMED PULLBOX CLASS 3 (EA)	REMARKS
56	233+82		237+82	RTE AA	LT/RT			560.00		CABLE SIZE TO BE VERIFIED
56	235+14			RTE AA	RT				1.00	
56	239+31			RTE AA	LT	1.00	1.0			
					TOTAL:	1.00	1.00	560.00	1.00	
					PAY:	1.0	1.0	560.0	1.0	

ITEM	UNIT	TOTAL
CABLE, 8 AWG 1 CONDUCTOR	LF	1202
CABLE, 4 AWG 1 CONDUCTOR	LF	222
WIRE, 8 AWG, BARE NEUTRAL	LF	601
WIRE, 4 AWG, BARE NEUTRAL	LF	111
POWER SUPPLY ASSEMBLY, TYPE 1, 240/120 VOLT SERVICE, LIGHTING ONLY	EA	1
BASE MOUNTED CONTROL STATION 240 VOLT - 4 CIRCUIT	EA	1
LUMINAIRE, 150 WATT HIGH PRESSURE SODIUM (UNDERPASS)	EA	4
CONDUIT, 2 IN. RIGID, IN TRENCH	LF	164
CONDUIT, 2 IN. RIGID, EXTERNAL ON STRUCTURE	LF	334
CONDUIT, 3 IN. RIGID, PUSHED	LF	62
CONDUIT, 3 IN. RIGID, IN TRENCH	LF	111
MISC. - CONDUIT, 1" FLEXIBLE	LF	8
PULL BOX, PREFORMED CLASS 1	EA	4
MISC. JUNCTION BOX, NEMA	EA	4

EROSION CONTROL DEVICES

SHEET	STATION	TO	STATION	LOCATION	ROCK DITCH CHECK (LF)	SILT FENCE (LF)	CURB INLET CHECK (EACH)	SEDIMENT REMOVAL (CY)	EROSION CONTROL BLANKET, TYPE 2C (SY)	REMARKS
39	949+16.90		952+74.15	L/O I-29 SB		365.3		3.65	1195.7	
39	952+50.86		953+83.45	L/O I-29 SB	100.00	185.67		11.86		
54	233+20			RTE AA	26			2.60		LT
54	233+23		234+45	RTE AA		134		1.34		RT
54	233+78			RTE AA			1	1.00		RT
54	234+50			RTE AA			1	1.00		RT
54	234+53			RTE AA			1	1.00		LT
54	235+13			RTE AA			1	1.00		RT
54	235+25			RTE AA			1	1.00		LT
55	237+40		238+28	RTE AA		109		1.09		RT
55	239+07		240+10	RTE AA	60			6.00		LT
55	240+17			RTE AA	20			2.00		RT
				TOTAL:	206.00	794.00	5.00	33.50	1195.70	
				PAY:	206.0	794.0	5.0	33.5	1195.7	

SEEDING

SHEET	STATION	TO	STATION	LOCATION	COOL SEASON MIXTURE (ACRE)	REMARKS
4	950+00.00	TO	953+65.42	R/O & L/O I-29 SB	0.44	
6	233+22		233+88	RTE AA	0.02	LT
6	233+22		235+17	RTE AA	0.02	RT
6	234+28		235+43	RTE AA	0.04	LT
7	236+76		239+65	RTE AA	0.02	RT
7	237+02		238+31	RTE AA	0.01	LT
7	238+89		239+65	RTE AA	0.03	LT
				TOTAL:	0.60	
				PAY:	0.6	

SUMMARY OF QUANTITIES
SHEET 5 OF 6

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Certificate of Authority No. : 000165
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EFFECTIVE: 10-01-2019

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00	4	64.00			32,33	REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00	3	48.00			32,33	REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00	2	36.00			16	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00	2	32.00			6A	MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
W05-1	48X48	16.00	3	48.00			43	ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	14	224.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00	2	32.00				DETOUR AHEAD
W020-3	48X48	16.00	8	128.00				ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00	4	64.00			5A	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	2	32.00			6	RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00						FRESH OIL
W021-5aL	48X48	16.00	2	32.00			57	LEFT SHOULDER CLOSED
W021-5bL	48X48	16.00	2	32.00			58	LEFT SHOULDER CLOSED AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL 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
G020-1	60X24	10.00	4	32.00			1	ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	6	48.00			26	END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	4	24.00			54	WORK ZONE (PLAQUE)
M04-8a	24X18	3.00	1	3			52	END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
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	4	48.00			4	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	2	32.00			60	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75	1	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	12	120.00			29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	2	25.00			56	ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64.00			D	BRIDGE CONSTRUCTION
CONST-7	48X24	8.00	5	90.00			91	RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00	4	48.00			90	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	1313
616-10.10 RELOCATED SIGNS	TOTAL	0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010	3	IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030	3	IMPACT ATTENUATOR (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008	39	ADVANCED WARNING RAIL SYSTEM
6161009	9	FLAG ASSEMBLY
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	267	CHANNELIZER (TRIM LINE)
6161030	11	TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHTS
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161052		WARNING LIGHT, TYPE B
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	1	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D	4792	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A	2	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A	7722	RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY OF QUANTITIES
SHEET 6 OF 6

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

DATE PREPARED 7/19/2020
ROUTE I-29 STATE MO
DISTRICT KC SHEET NO. 3
COUNTY PLATTE
JOB NO. J4I3297
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

REV.

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

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.

NE ¼ SEC. 33 T51N R33W

951+67.30, ℄ I-29 SB
CONSTR. N.B.L. CONCR. APPROACH PAVEMENT

STA 950+00 TO 952+05.82 LT. ℄ I-29 SB
INSTALL 206′ CONCRETE TRAFFIC BARRIER TYPE C
ADJUST TO ALIGN WITH OVERHEAD SIGN FOUNDATION

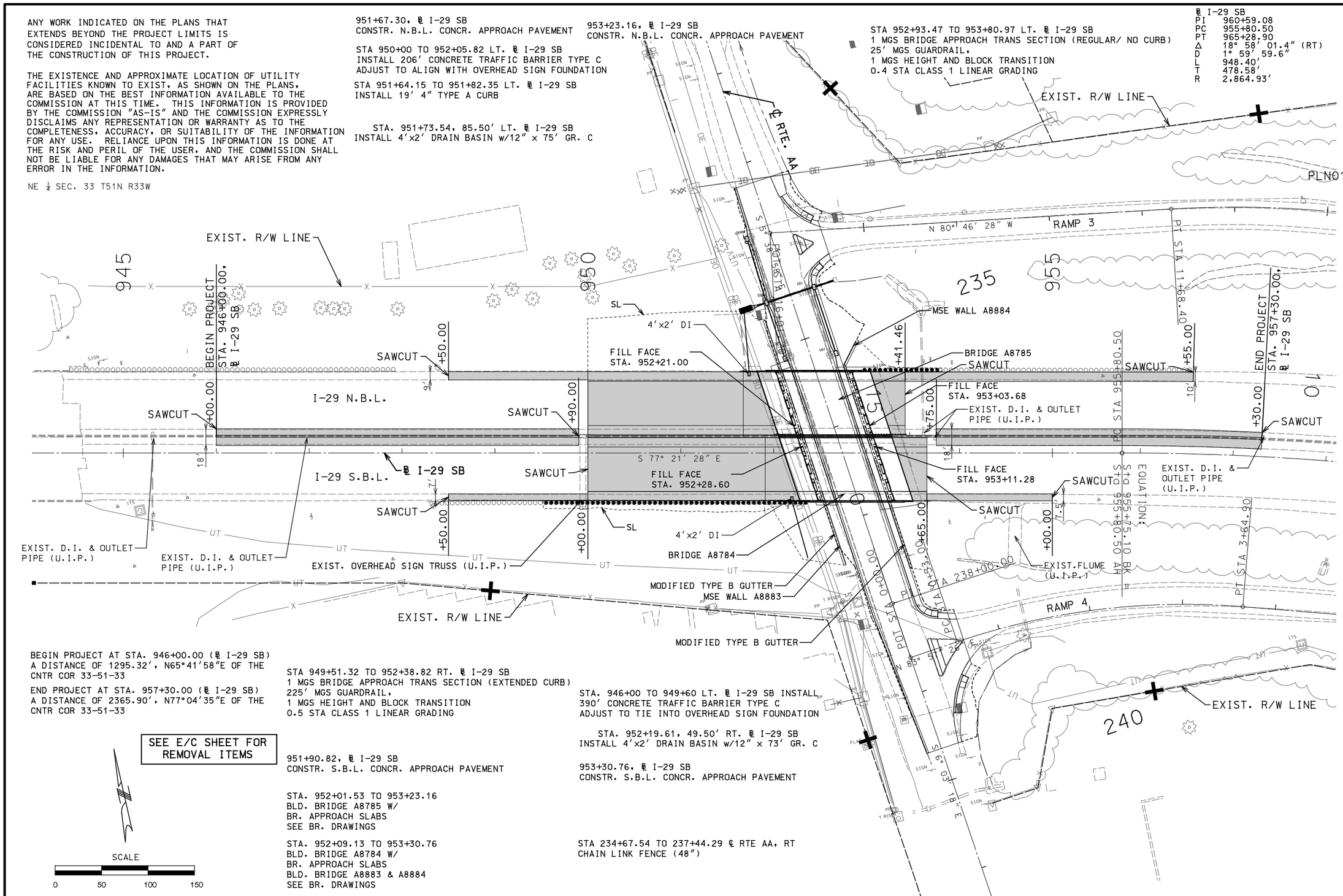
STA 951+64.15 TO 951+82.35 LT. ℄ I-29 SB
INSTALL 19′ 4″ TYPE A CURB

STA. 951+73.54, 85.50′ LT. ℄ I-29 SB
INSTALL 4′x2′ DRAIN BASIN w/12″ x 75′ GR. C

953+23.16, ℄ I-29 SB
CONSTR. N.B.L. CONCR. APPROACH PAVEMENT

STA 952+93.47 TO 953+80.97 LT. ℄ I-29 SB
1 MGS BRIDGE APPROACH TRANS SECTION (REGULAR/ NO CURB)
25′ MGS GUARDRAIL,
1 MGS HEIGHT AND BLOCK TRANSITION
0.4 STA CLASS 1 LINEAR GRADING

℄ I-29 SB
PI 960+59.08
PC 955+80.50
PT 965+28.90
Δ 18° 58′ 01.4″ (RT)
D 1° 59′ 59.6″
L 948.40′
T 478.58′
R 2,864.93′



BEGIN PROJECT AT STA. 946+00.00 (℄ I-29 SB)
A DISTANCE OF 1295.32′, N65°41′58″E OF THE CNTR COR 33-51-33

END PROJECT AT STA. 957+30.00 (℄ I-29 SB)
A DISTANCE OF 2365.90′, N77°04′35″E OF THE CNTR COR 33-51-33

SEE E/C SHEET FOR REMOVAL ITEMS

SCALE
0 50 100 150

STA 949+51.32 TO 952+38.82 RT. ℄ I-29 SB
1 MGS BRIDGE APPROACH TRANS SECTION (EXTENDED CURB)
225′ MGS GUARDRAIL,
1 MGS HEIGHT AND BLOCK TRANSITION
0.5 STA CLASS 1 LINEAR GRADING

951+90.82, ℄ I-29 SB
CONSTR. S.B.L. CONCR. APPROACH PAVEMENT

STA. 952+01.53 TO 953+23.16
BLD. BRIDGE A8785 W/
BR. APPROACH SLABS
SEE BR. DRAWINGS

STA. 952+09.13 TO 953+30.76
BLD. BRIDGE A8784 W/
BR. APPROACH SLABS
BLD. BRIDGE A8883 & A8884
SEE BR. DRAWINGS

IF EXISTING UNDERDRAINS ARE ENCOUNTERED, CONTRACTOR SHALL PROTECT OR REPLACE. NO DIRECT COST.

STA. 946+00 TO 949+60 LT. ℄ I-29 SB INSTALL
390′ CONCRETE TRAFFIC BARRIER TYPE C
ADJUST TO TIE INTO OVERHEAD SIGN FOUNDATION

STA. 952+19.61, 49.50′ RT. ℄ I-29 SB
INSTALL 4′x2′ DRAIN BASIN w/12″ x 73′ GR. C

953+30.76, ℄ I-29 SB
CONSTR. S.B.L. CONCR. APPROACH PAVEMENT

STA 234+67.54 TO 237+44.29 ℄ RTE AA, RT
CHAIN LINK FENCE (48″)

STA 235+20.08 TO 237+69.54 ℄ RTE AA, RT
CHAIN LINK FENCE (48″)

I-29 PLAN & PROFILE
SHEET 1 OF 4

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

DATE PREPARED	
7/19/2020	
ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	4
COUNTY	
PLATTE	
JOB NO.	
J4I3297	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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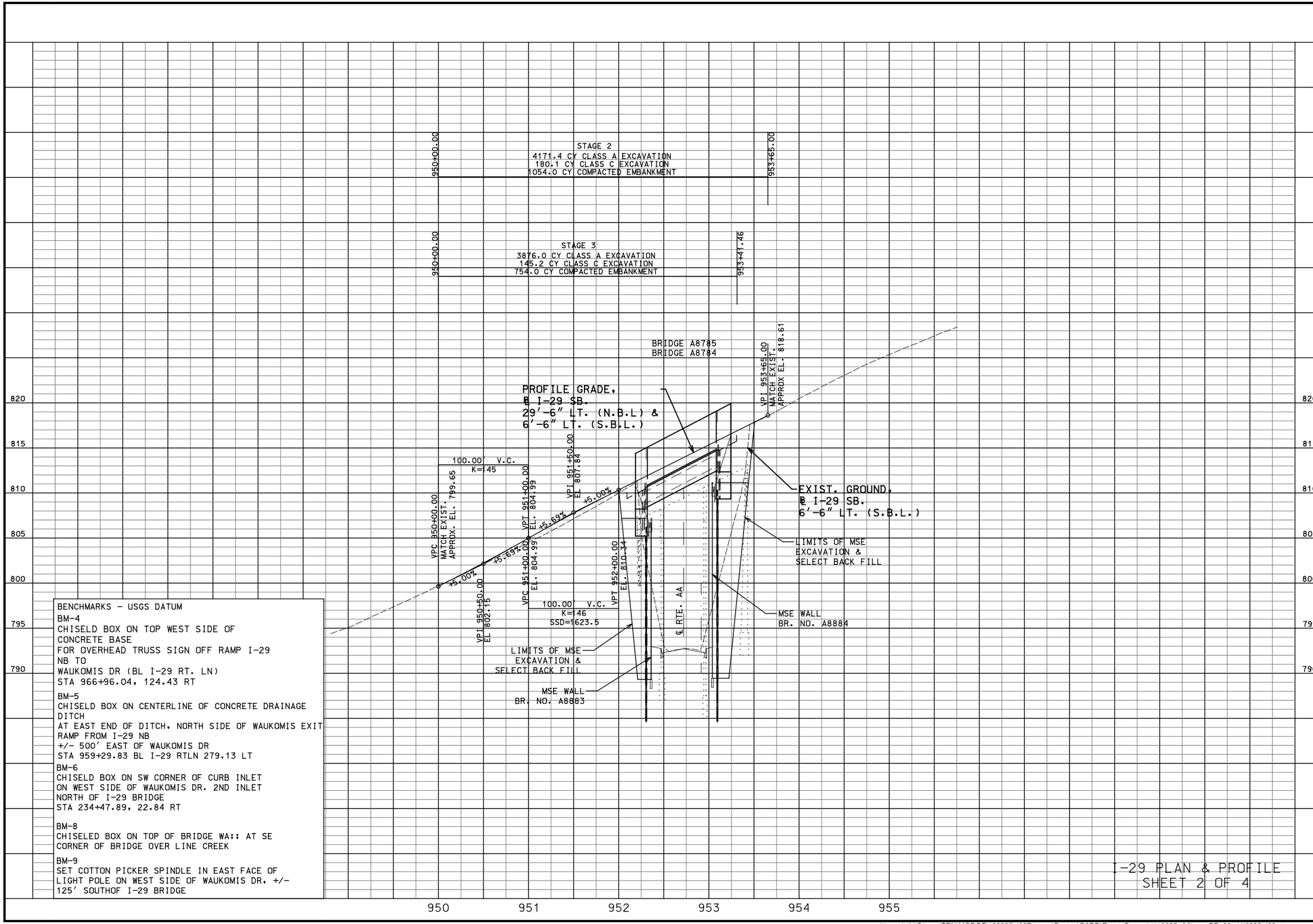
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No.: 000165
BMcD Project No. 109387

REV.



BENCHMARKS - USGS DATUM

BM-4
CHISELD BOX ON TOP WEST SIDE OF
CONCRETE BASE
FOR OVERHEAD TRUSS SIGN OFF RAMP I-29
NB TO
WAUKOMIS DR (BL I-29 RT. LN)
STA 966+96.04, 124.43 RT

BM-5
CHISELD BOX ON CENTERLINE OF CONCRETE DRAINAGE
DITCH
AT EAST END OF DITCH, NORTH SIDE OF WAUKOMIS EXIT
RAMP FROM I-29 NB
+/- 500' EAST OF WAUKOMIS DR
STA 959+29.83 BL I-29 RTLN 279.13 LT

BM-6
CHISELD BOX ON SW CORNER OF CURB INLET
ON WEST SIDE OF WAUKOMIS DR. 2ND INLET
NORTH OF I-29 BRIDGE
STA 234+47.89, 22.84 RT

BM-8
CHISELED BOX ON TOP OF BRIDGE WA;; AT SE
CORNER OF BRIDGE OVER LINE CREEK

BM-9
SET COTTON PICKER SPINDLE IN EAST FACE OF
LIGHT POLE ON WEST SIDE OF WAUKOMIS DR, +/-
125' SOUTHOF I-29 BRIDGE

I-29 PLAN & PROFILE
SHEET 2 OF 4

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	5
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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REV.

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LEGEND

NEW PAVEMENT

EXIST. R/W

NW 53RD STREET

SE1/4 NE1/4
S33 T51N R33W

END CURB & GUTTER TRANSITION TO EXIST. SHOULDER

MATCH EXIST. STA. 15+39.16

SHOULDER WIDTH VARIES

(UIP)

RAMP 3

N 80° 46' 28" W

6' SIDEWALK

BEGIN RECONSTRUCTION STA. 233+22.50

73' R

23' R

75°7'30"

2' CURB

SHOULDER & GUTTER WIDTH VARIES

6' SIDEWALK

ROUTE AA

REMOVE & REBUILD ISLAND W/ 8" MEDIAN STRIP

SHOULDER WIDTH VARIES

END CURB & GUTTER TRANSITION TO EXIST. SHOULDER REMOVE EXIST. CURB

A4 RTE AA
STA 234+52.59, 24.00' LT
INSTALL 5'X3' KCMO TYPE 2
CURB INLET
W/ 22'X 24" GROUP B PIPE

A5 RTE AA
STA 235+25.16, 25.50' LT
INSTALL 5'X3' KCMO TYPE 1
CURB INLET
W/ 68'X 15" GROUP B PIPE

I-29 NORTHBOUND

WALL A8884

6' SIDEWALK

S 5° 38' 58" E

24" RCP

BM #6

(RELOC)

2' CURB & GUTTER

10' SIDEWALK

WALL A8883
1" CABLE CONDUIT
2C #6 AWG W/ GRND

MATCHLINE STA 236+00.00

℄ RAMP 3 STA. 16+01.20=
℄ ROUTE AA STA. 233+79.80

A6OUT

STA. 235+14, 32' RT
INSTALL CLASS 3 PULL BOX

EXIST. BRIDGE L0690
PROP. BRIDGE A8785

A6OUT
STA. 234+49.97, 43.45' RT
INSTALL 24" GROUP B FES
W/ 9'X 24" GROUP B PIPE

A1 RTE AA
STA 234+49.97 25.50' RT
INSTALL 5'X3' KCMO TYPE 1
CURB INLET
W/ 50'X 24" GROUP A PIPE

A2 RTE AA
STA 233+78.15, 23.82' RT
INSTALL 5'X3' KCMO TYPE 1
CURB INLET
W/ 67'X 15" GROUP B PIPE

A3 RTE AA
STA 235+13.47, 25.00' RT
INSTALL 5'X3' KCMO TYPE 1
CURB INLET
W/ 59'X 15" GROUP B PIPE

SCALE
0 20 40 60

BM #6
CHISELED BOX ON SW CORNER OF CURB INLET ON WEST SIDE OF WAUKOMIS DR. 2ND INLET NORTH OF I-29 BRIDGE.
STA. 234+47.89, 22.84'RT

ELEVATION: 791.83
NORTHING: 1100780.5710
EASTING: 2758743.3445

HORIZ: 1" = 20'
VERT: 1" = 5'

K = 103
150.00' V.C.

EXIST. GRADE

PROPOSED GRADE

VPC 233+93.60

VPI 233+55.00
EL 792.08

VPT 235+43.60

+0.10% -0.60%

-0.60% +0.86%

VPC 233+25.00
792.05

VPT 233+85.00

SSD = 1571'
K = 86
60.00' V.C.

VP 234+68.60
EL 791.40

BEGIN RECONSTRUCTION
STA. 233+22.50

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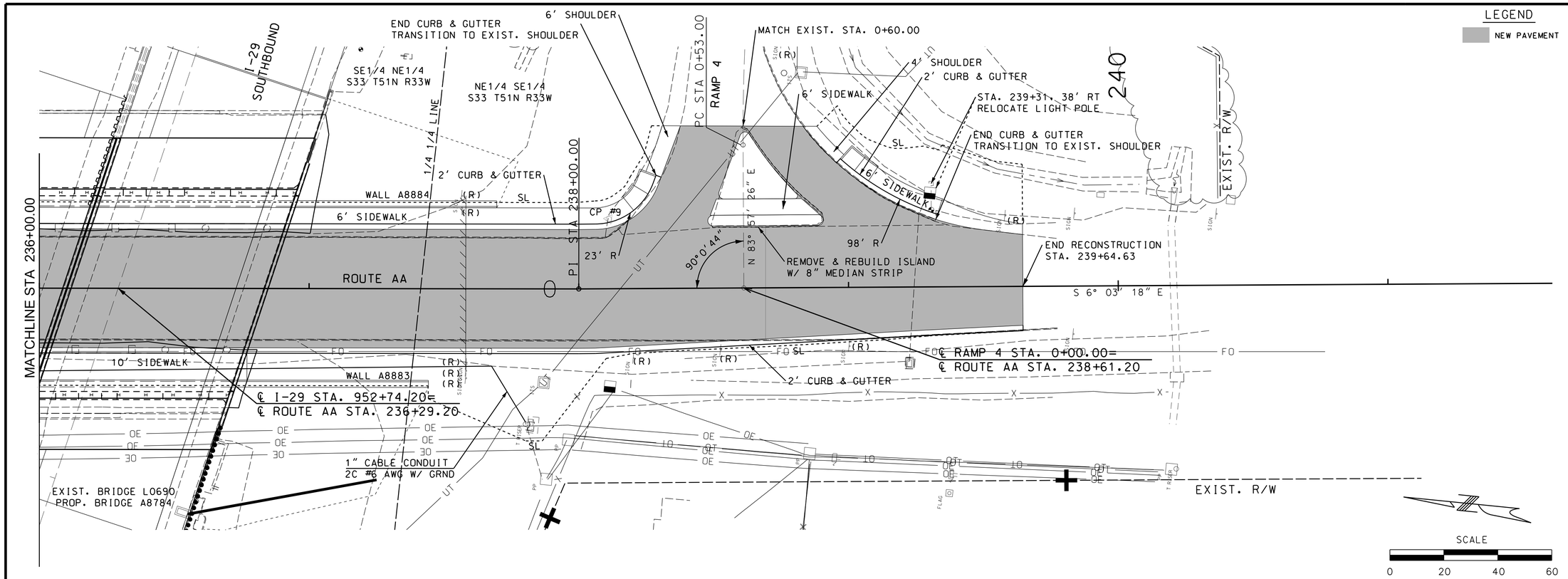

PLAN & PROFILE
ROUTE AA
SHEET 4 OF 4

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	7
COUNTY	PLATTE
JOB NO.	J4I3297
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)

1411 East 104th St.
Kansas City, MO 64131
Tel: (816) 874-4665
Fax: (816) 874-4675
www.trekkdesigngroup.com

Missouri Cert. of Authority 2002010300

TREKK DESIGN GROUP, LLC

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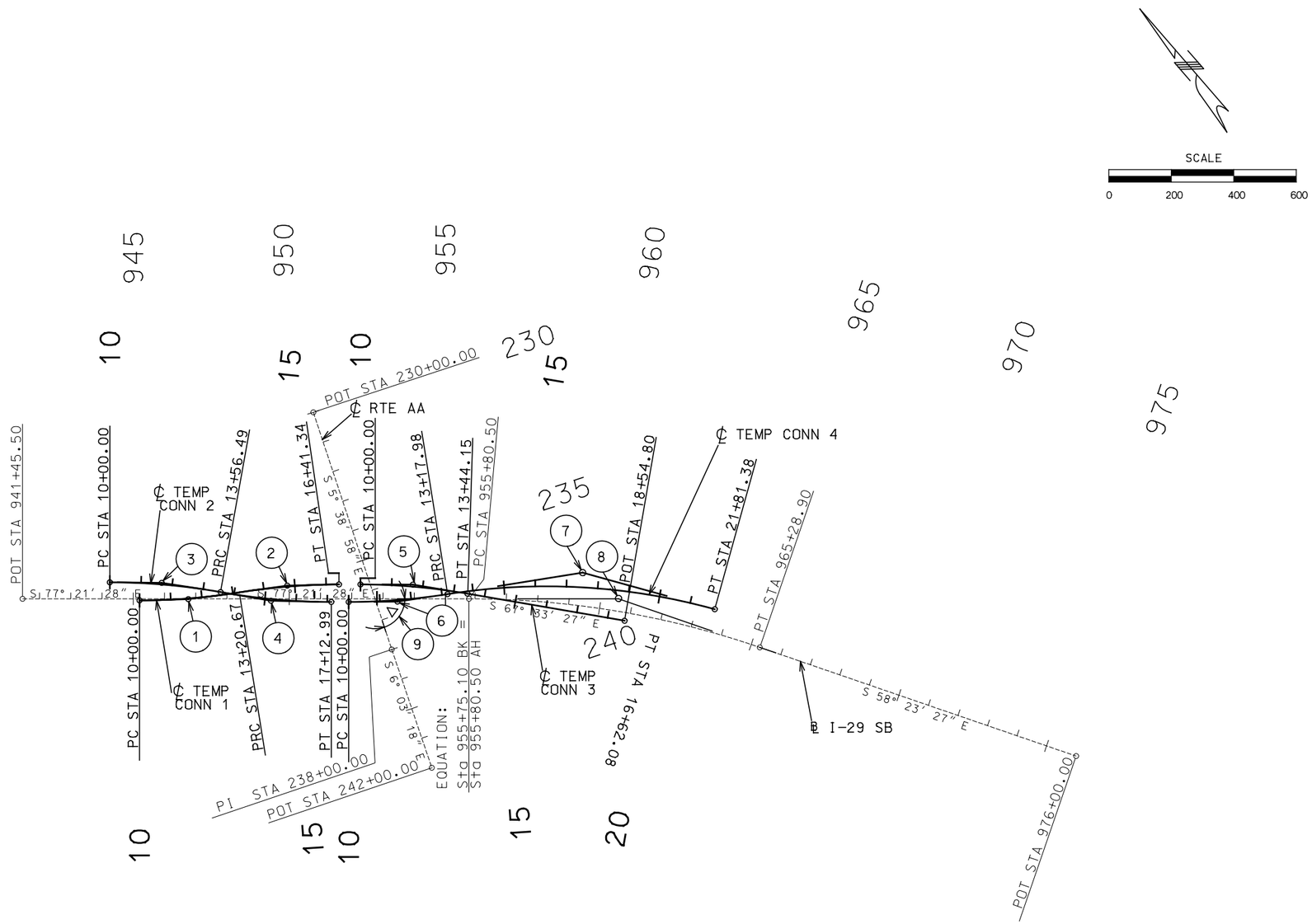


CURVE DATA								
NO	LOCATION	P.I STATION	Δ	D	T	L	R	S.E
1	I-29 TEMPCONN. 1 C-1	11+60.68	9°07'54.26"(LT)	2°50'51.73"	160.68'	320.67'	2,012.00'	
2	I-29 TEMPCONN. 1 C-2	14+81.35	9°07'54.26"(RT)	2°50'51.73"	160.68'	320.67'	2,012.00'	
3	I-29 TEMPCONN. 2 C-1	11+78.71	10°09'06.83"(RT)	2°50'51.73"	178.71'	356.49'	2,012.00'	
4	I-29 TEMPCONN. 2 C-2	15+35.21	10°09'06.83"(LT)	2°50'51.73"	178.71'	356.49'	2,012.00'	
5	I-29 TEMPCONN. 3 C-1	11+72.50	9°48'01.34"(RT)	2°50'51.73"	172.50'	344.15'	2,012.00'	
6	I-29 TEMPCONN. 4 C-1	11+59.32	9°03'18.25"(LT)	2°50'51.73"	159.32'	317.98'	2,012.00'	
7	I-29 TEMPCONN. 4 C-2	17+56.43	24°35'13.87"(RT)	2°50'51.73"	438.45'	863.40'	2'012.00'	
8	I-29 SB C-1	960+59.08	18°58'01.44"(RT)	1°59'59.65"	478.58'	948.40'	2,864.93'	

INTERSECTION POINT					
NO	MAIN	CROSSROAD	MAIN STATION	CROSSROAD STATION	Δ
9	I-29	RTE AA	952+74.20	236+29.20	71°42'30"

ALIGNMENT LAYOUT SHEET
SHEET 1 OF 1

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	8
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

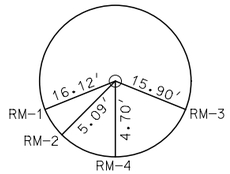
Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

REV.

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_LS_01_J4I3297_i200.dgn 5:38:13 PM 7/19/2020

REFERENCE POINTS

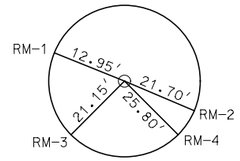
RM-1: WSW 16.12′ TO SET MAG NAIL ON TOP OF WOOD GUARD RAIL POST
RM-2: SW 5.09′ TO SET MAG NAIL ON TOP OF WOOD GUARD RAIL POST
RM-3: ESE 15.90′ TO SET MAG NAIL ON TOP OF WOOD GUARD RAIL POST
RM-4: SOUTH 4.70′ TO EDGE OF SHOULDER



CP 3 – SET 1/2″ IRON BAR OFF SHOULDER OF I-29 NORTH BOUND, +/-900′ SE OF GORE OF WAUKOMIS EXIT RAMP

N: 1099803.943
E: 2760771.621
ELEVATION: 834.81
℄ SURVEY STA. 974+24.46
OFFSET 108.46′ LT.

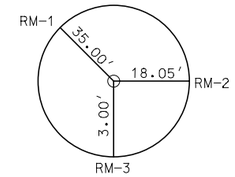
RM-1: WNW 12.95′ TO EAST FACE OF DELINEATOR POST
RM-2: ESE 21.70′ TO WEST FACE OF DELINEATOR POST
RM-3: SW 21.15′ TO EAST FACE OF DELINEATOR POST
RM-4: SE 25.80′ TO WEST FACE OF DELINEATOR POST



CP 4 – SET 1/2″ IRON BAR OFF SOUTH SHOULDER OF WAUKOMIS EXIT RAMP FROM I-29 NORTH BOUND, +/-60′ NW OF GORE.

N: 1100357.436
E: 2759883.540
ELEVATION: 844.76
℄ SURVEY STA. 963+83.95
OFFSET 118.19′ LT.

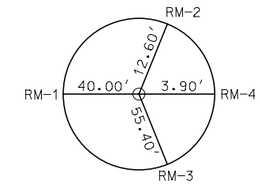
RM-1: NW 35.00′ TO NE CORNER OF CONCRETE DRAINAGE DITCH
RM-2: EAST 18.05′ TO WEST FACE OF METAL DELINEATOR POST
RM-3: SOUTH 3.00′ TO NORTH EDGE OF PAVEMENT



CP 5 – SET 1/2″ IRON BAR OFF NORTH SHOULDER OF WAUKOMIS EXIT RAMP FROM I-29 NORTH BOUND, +/-530′ NW OF GORE.

N: 1100677.970
E: 2759530.147
ELEVATION: 832.64
℄ SURVEY STA. 959+57.62
OFFSET 264.14′ LT.

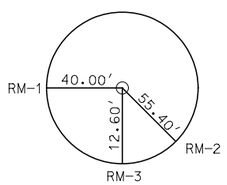
RM-1: WEST 40.00′ TO CORNER OF R/W FENCE
RM-2: NNE 12.60′ TO SW CORNER OF CURB INLET
RM-3: SSE 55.40′ TO NW CORNER OF CURB INLET
RM-4: EAST 3.90′ TO WEST BACK OF CURB



CP 6 – SET 1/2″ IRON BAR AT INTERSECTION OF WAUKOMIS DRIVE AND I-29 NB OFF RAMP

N: 1100835.767
E: 2758737.213
ELEVATION: 791.91
℄ SURVEY STA. 951+77.55
OFFSET 217.50′ LT.

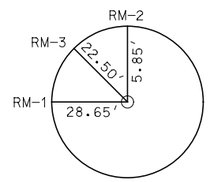
RM-1: WEST 43.05′ TO EAST END OF GUARD RAIL
RM-2: SE 2.8′ TO WEST SIDE OF MILE MARKER 3.4
RM-3: SOUTH 6.4′ TO NORTH EDGE OF PAVEMENT



CP 7 – SET 1/2″ IRON BAR OFF NORTH SHOULDER OF I-29 NORTH BOUND, +/-350′ WEST OF NW CORNER OF WAUKOMIS BRIDGE.

N: 1100790.224
E: 2758377.279
ELEVATION: 791.07
℄ SURVEY STA. 948+36.31
OFFSET 94.28′ LT.

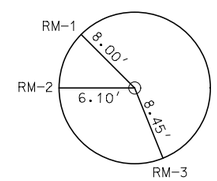
RM-1: WEST 28.65′ TO SE CORNER OF BRIDGE CONCRETE WALL
RM-2: NORTH 5.85′ TO SOUTH EDGE OF PAVEMENT
RM-3: SE 22.50′ TO NW CORNER OF CONCRETE PAD FOR SCOUT MANHOLE



CP 8 – SET 1/2″ IRON BAR OFF SOUTH SHOULDER OF I-29 SOUTH BOUND, +/-750′ WEST OF SW CORNER OF WAUKOMIS BRIDGE.

N: 1100716.764
E: 2758009.824
ELEVATION: 785.63
℄ SURVEY STA. 944+93.84
OFFSET 57.82′ RT.

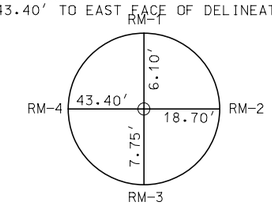
RM-1: NW 8.00′ TO PC OF CURB RETURN ON EAST SIDE OF WAUKOMIS DRIVE
RM-2: WEST 6.10′ TO MID POINT OF CURB RETURN
RM-3: SSE 8.45′ TO PT OF CURB RETURN ON NORTH SIDE OF I-29 SB ONRAMP



CP 9 – SET 1/2″ IRON BAR AT NE CORNER OF INTERSECTION OF WAUKOMIS DRIVE AND ENTRANCE RAMP TO I-29 SB

N: 1100423.933
E: 2758827.613
ELEVATION: 793.74
℄ SURVEY STA. 953+55.89
OFFSET 164.57′ RT.

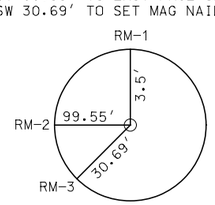
RM-1: NORTH 6.10′ TO SOUTH EDGE OF PAVEMENT OF I-29 SB
RM-2: EAST 18.70′ TO WEST FACE OF DELINEATOR POST
RM-3: SOUTH 7.75′ TO NORTH EDGE OF PAVEMENT OF WAUKOMIS ENTRANCE RAMP
RM-4: WEST 43.40′ TO EAST FACE OF DELINEATOR POST



CP 10 – SET 1/2″ IRON BAR 50′ WEST OF GORE POINT OF I-29 SB AND WAUKOMIS ENTRANCE RAMP

N: 1100160.723
E: 2759869.372
ELEVATION: 837.90
℄ SURVEY STA. 964+65.67
OFFSET 59.94′ RT.

RM-1: NORTH 3.5′ TO SOUTH EDGE OF PAVEMENT
RM-2: WEST 99.55′ TO EAST FACE OF METAL LIGHT POLE
RM-3: SW 30.69′ TO SET MAG NAIL IN 8″ TREE



CP 11 – SET 1/2″ IRON BAR OFF SOUTH SHOULDER OFF I-29 SOUTH BOUND, +/-700′ SE OF GORE OF I-29 SB AND WAUKOMIS ENTRANCE RAMP.

N: 1099749.226
E: 2760547.761
ELEVATION: 835.79
℄ SURVEY STA. 972+62.49
OFFSET 55.47′ RT.

REFERENCE POINTS SHEET
SHEET 1 OF 1

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	K-C
SHEET NO.	9
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No.: 000165
BMcD Project No. 109387

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REV.

COORDINATE POINT LISTING
MISSOURI COORDINATE SYSTEM OF 1983 (WEST ZONE)

1) PROJECT "GROUND" COORDINATES SHOWN HEREON ARE BASED ON THE MISSOURI STATE PLANE COORDINATE SYSTEM OF 1983, NAVD 88, WEST ZONE, USING THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR BASE STATION. ALL COORDINATES ARE SHOWN IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED. PROJECT INITIAL START DATE WAS JULY OF 2018.

CHECKED HORIZONTAL AND VERTICAL CONTROL STATIONS

PL-19 GRID METERS FROM MGRS DATA SHEET, DATE OF REPORT 2001
NORTHING 335873.535(m) / EASTING 840026.812(m) / ELEVATION 269.7(m)

PL-19 PROJECT COORDINATES CALCULATED FROM MGRS DATA SHEET
NORTHING 1102049.5626 / EASTING 2756249.2553 / ELEVATION 884.84

PL-19 MEASURED WITH TRIMBLE R8 RECIEVER
NORTHING 1102049.5359 / EASTING 2756249.3048 / ELEVATION 884.85

CL-14 GRID METERS FROM MGRS DATA SHEET, DATE OF REPORT 2003
NORTHING 337007.919(m) / EASTING 842215.255(m) / ELEVATION 280.9(m)

CL-14 PROJECT COORDINATES CALCULATED FROM MGRS DATA SHEET
NORTHING 1105771.6403 / EASTING 2763429.8528 / ELEVATION 921.57

CL-14 MEASURED WITH TRIMBLE R8 RECIEVER
NORTHING 1105771.6403 / EASTING 2763429.8833 / ELEVATION 921.60

PROJECTION FACTOR = 1.000094809
GRID FACTOR = 0.9999052
1 METER = 3.28083333 U.S. FEET

MGRS = MISSOURI GEOGRAPHIC REFERENCE STATION

			PROJECT (GROUND) COORDINATES		STATE PLANE COORDINATES		
SHEET NO.	POINT ID	STATION	NORTH	EAST	NORTH	EAST	DESCRIPTION
BL I-29 SB							
	Point 5	941+45.50	1100849.42	2757682.58	1100953.79	2757944.04	
		955+80.50	1100536.54	2759077.52	1100640.88	2759339.11	P.C.
		960+59.08	1100431.79	2759544.50	1100536.13	2759806.13	P.I.
		965+28.90	1100180.96	2759952.08	1100285.27	2760213.75	P.T.
			1097741.06	2758450.50	1097845.14	2758712.03	C.C.
	Point 6	976+00.00	1099619.57	2760864.27	1099723.83	2761126.03	
CL ROUTE AA							
	Point 7	230+00.00	1101228.54	2758721.98	1101332.94	2758983.53	
	Point 8	238+00.00	1100432.42	2758800.73	1100536.75	2759062.29	
	Point 9	242+00.00	1100034.65	2758842.93	1100138.95	2759104.49	
RAMP 3							
		00+00.00	1100173.56	2760162.30	1100277.86	2760424.00	P.C.
		1+49.03	1100251.37	2760035.20	1100355.70	2760296.87	P.I.
		2+97.00	1100353.69	2759926.83	1100458.01	2760188.50	P.T.
			1101395.19	2760910.20	1101499.61	2761171.96	C.C.
		4+85.50	1100483.30	2759789.55	1100587.64	2760051.21	P.C.
		8+37.56	1100724.80	2759533.78	1100829.16	2759795.41	P.I.
		11+68.40	1100781.19	2759186.57	1100885.56	2759448.16	P.T.
			1099650.10	2759002.85	1099754.35	2759264.43	C.C.
	Point 4	16+01.20	1100850.58	2758759.37	1100954.95	2759020.92	
RAMP 4							
	Point 1	0+00.00	1100371.56	2758807.20	1100475.89	2759068.75	
		0+53.00	1100377.14	2758859.89	1100481.47	2759121.46	P.C.
		2+11.15	1100393.79	2759017.17	1100498.12	2759278.75	P.I.
		3+64.90	1100346.63	2759168.13	1100450.95	2759429.72	P.T.
			1099617.45	2758940.31	1099721.70	2759201.89	C.C.
		11+44.70	1100114.09	2759912.45	1100218.39	2760174.11	P.C.
		12+63.78	1100078.58	2760026.11	1100182.87	2760287.78	P.I.
		13+81.64	1100016.24	2760127.57	1100120.53	2760389.26	P.T.
			1099202.61	2759627.68	1099306.82	2759889.32	C.C.
	Point 2	17+83.65	1099805.80	2760470.10	1099910.07	2760731.81	
	Point 3	20+33.94	1099685.00	2760689.30	1099789.25	2760951.04	
		946+00.00	1100749.95	2758126.06	1100854.31	2758387.56	BEGIN POINT
		957+30.00	1100500.03	2759222.48	1100604.37	2759484.08	END POINT

			PROJECT (GROUND) COORDINATES		STATE PLANE COORDINATES		
SHEET NO.	POINT ID	STATION	NORTH	EAST	NORTH	EAST	DESCRIPTION
TEMPORARY CONNECT 1							
		10+00.00	1100762.58	2758046.91	1100866.94	2758308.40	P.C.
		11+60.68	1100727.41	2758203.69	1100831.77	2758465.19	P.I.
		13+20.67	1100717.57	2758364.06	1100821.93	2758625.58	P.T.
			1102725.80	2758487.26	1102830.35	2758748.79	C.C.
		13+20.67	1100717.57	2758364.06	1100821.93	2758625.58	P.C.
		14+81.35	1100707.74	2758524.44	1100812.10	2758785.97	P.I.
		16+41.34	1100672.57	2758681.22	1100776.92	2758942.77	P.T.
			1098709.35	2758240.87	1098813.52	2758502.38	C.C.
TEMPORARY CONNECT 2							
		10+00.00	1100839.96	2757966.91	1100944.33	2758228.39	P.C.
		11+78.71	1100800.85	2758141.29	1100905.22	2758402.79	P.I.
		13+56.49	1100731.61	2758306.05	1100835.97	2758567.56	P.T.
			1098876.74	2757526.56	1098980.92	2757788.00	C.C.
		13+56.49	1100731.61	2758306.05	1100835.97	2758567.56	P.C.
		15+35.21	1100662.37	2758470.80	1100766.72	2758732.33	P.I.
		17+12.99	1100623.26	2758645.19	1100727.61	2758906.73	P.T.
			1102586.48	2759085.53	1102691.02	2759347.12	C.C.
TEMPORARY CONNECT 3							
		10+00.00	1100657.50	2758748.42	1100761.85	2759009.97	P.C.
		11+72.50	1100619.74	2758916.74	1100724.09	2759178.31	P.I.
		13+44.15	1100553.89	2759076.17	1100658.23	2759337.76	P.T.
			1098694.27	2758308.07	1098798.44	2758569.58	C.C.
TEMPORARY CONNECT 4							
		10+00.00	1100611.06	2758699.57	1100715.41	2758961.12	P.C.
		11+59.32	1100576.19	2758855.03	1100680.53	2759116.59	P.I.
		13+17.98	1100566.22	2759014.04	1100670.56	2759275.62	P.T.
			1102574.28	2759139.92	1102678.81	2759401.51	C.C.
		13+17.98	1100566.22	2759014.04	1100670.56	2759275.62	P.C.
		17+56.43	1100538.79	2759451.63	1100643.13	2759713.25	P.I.
		21+81.38	1100331.78	2759838.13	1100436.10	2760099.79	P.C.
			1098558.17	2758888.16	1098662.32	2759149.73	C.C.

COORDINATE POINTS SHEET
SHEET 1 OF 1

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

DATE PREPARED 7/19/2020
ROUTE I-29 | STATE MO
DISTRICT KC | SHEET NO. 10
COUNTY PLATTE
JOB NO. J4I3297
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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No. : 000165
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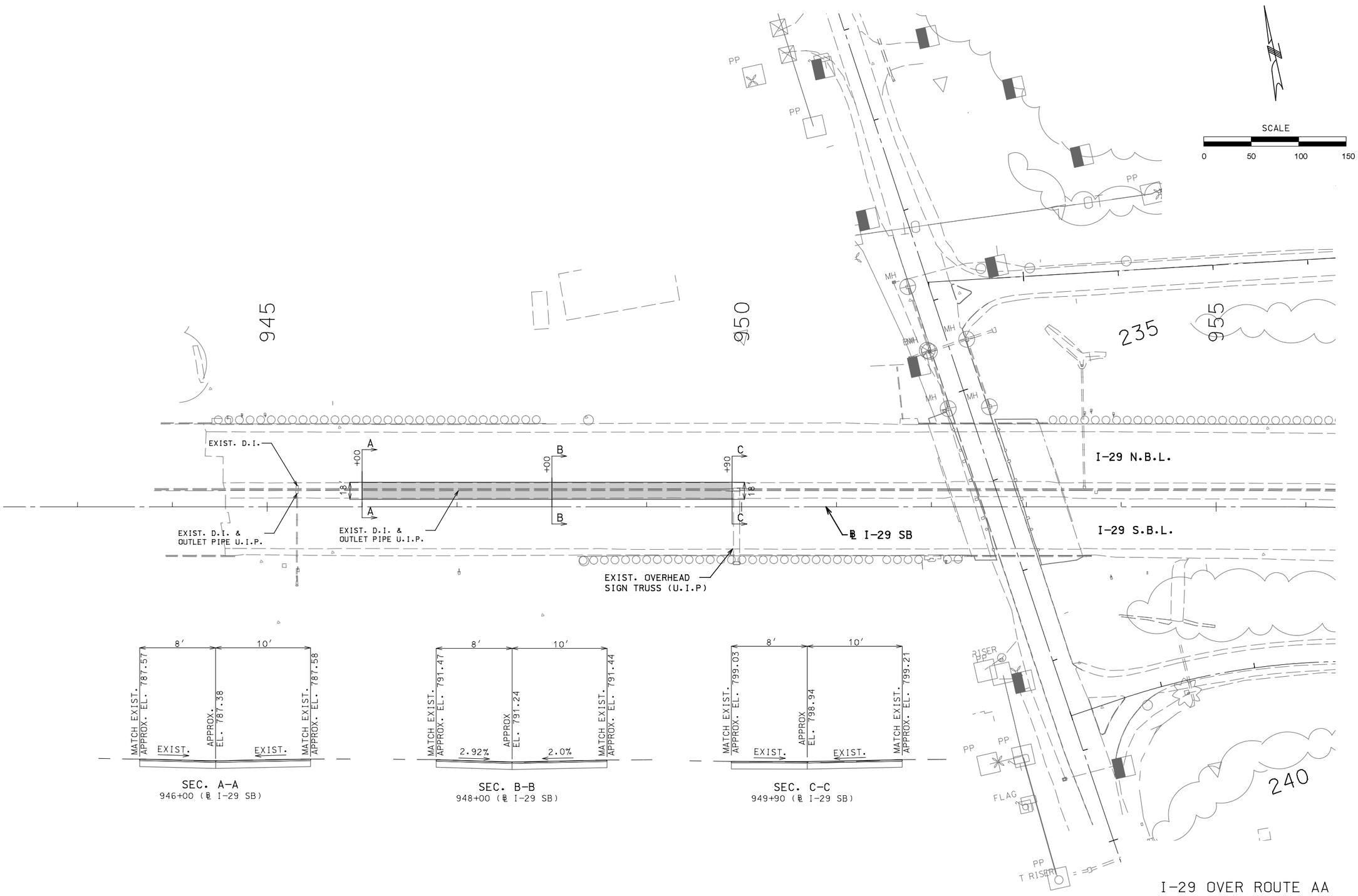
REV.



I-29 OVER ROUTE AA
NORHT CROSSOVER
SHEET 1 OF 4

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	1.1
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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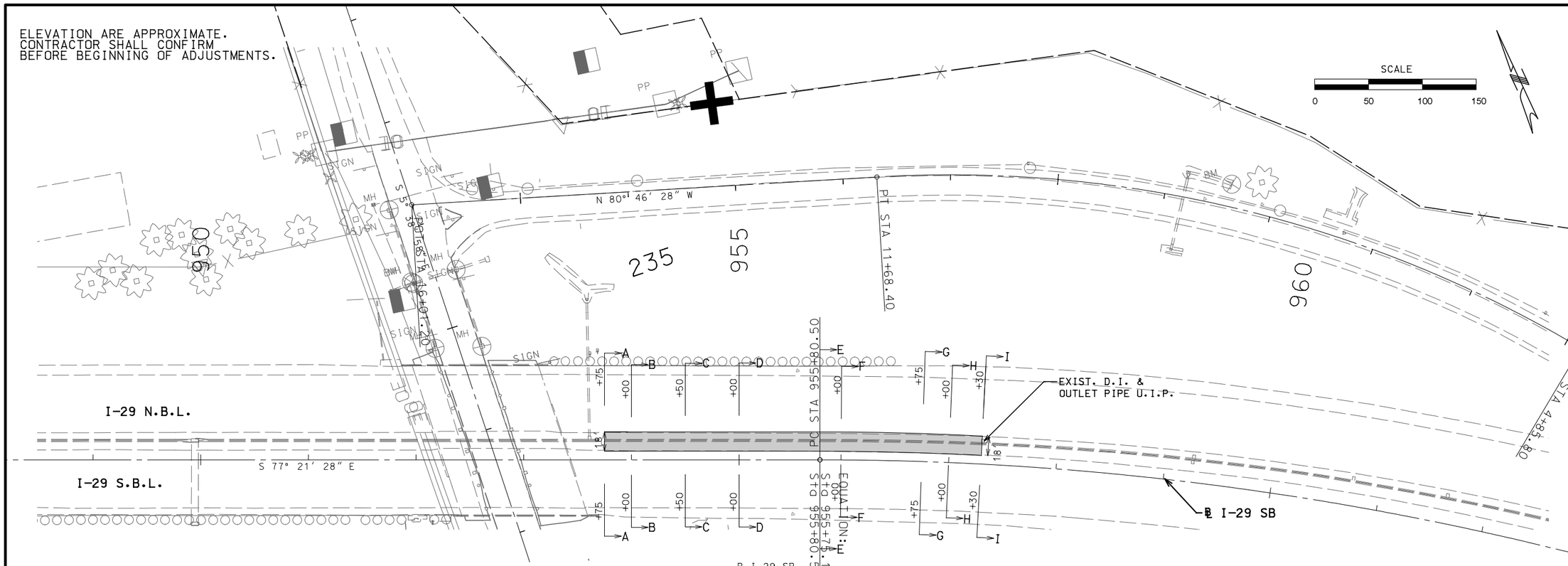
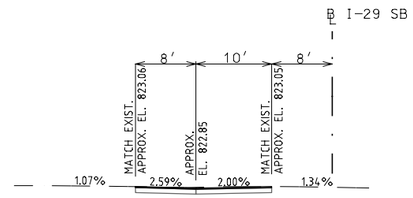
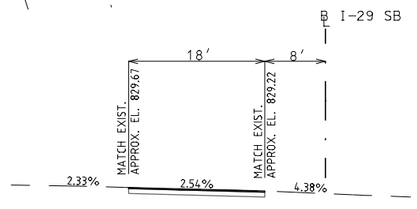
ELEVATION ARE APPROXIMATE.
CONTRACTOR SHALL CONFIRM
BEFORE BEGINNING OF ADJUSTMENTS.

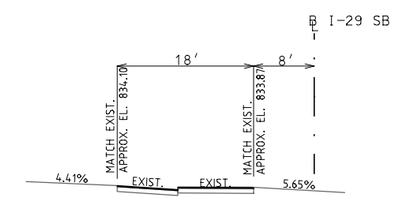




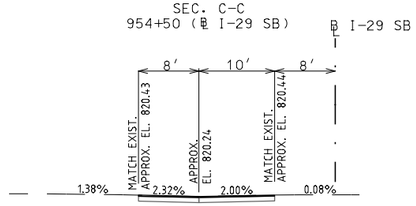
SEC. C-C
954+50 (℄ I-29 SB)



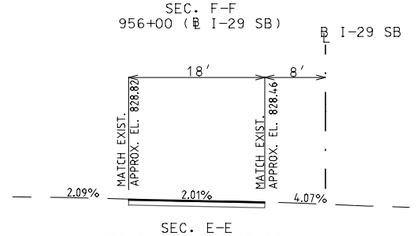
SEC. F-F
956+00 (℄ I-29 SB)



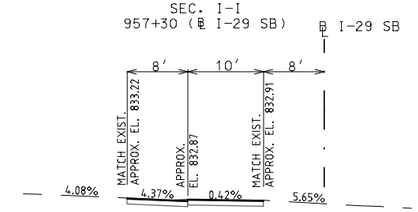
SEC. I-I
957+30 (℄ I-29 SB)



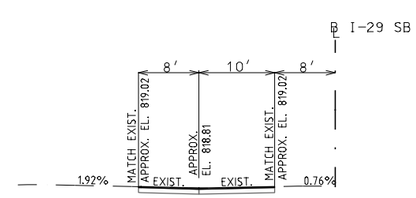
SEC. B-B
954.00 (℄ I-29 SB)



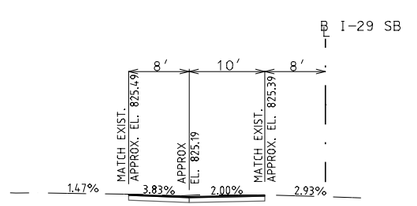
SEC. E-E
955+80.50 (℄ I-29 SB)



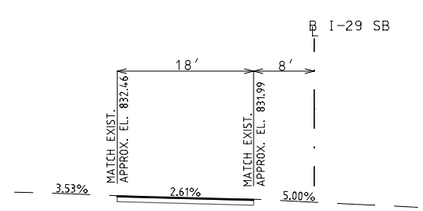
SEC. H-H
957+00 (℄ I-29 SB)



SEC. A-A
953+75 (℄ I-29 SB)



SEC. D-D
955+00 (℄ I-29 SB)



SEC. G-G
956+75 (℄ I-29 SB)

I-29 OVER ROUTE AA
SOUTH CROSSOVER
SHEET 2 OF 4

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	K-C
SHEET NO.	1-2
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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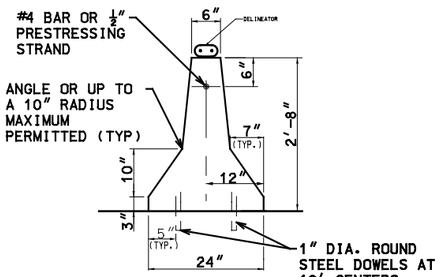
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

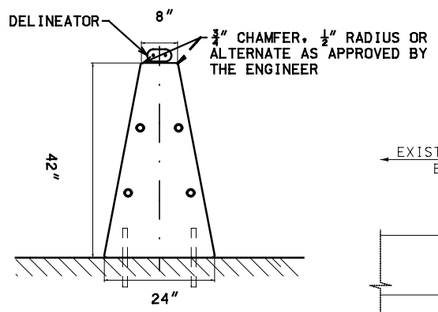
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

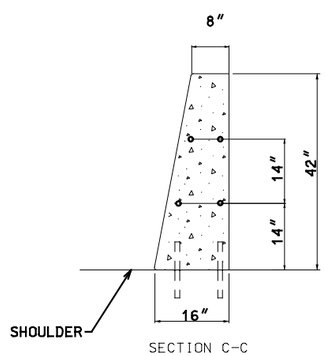
BURNS McDONNELL



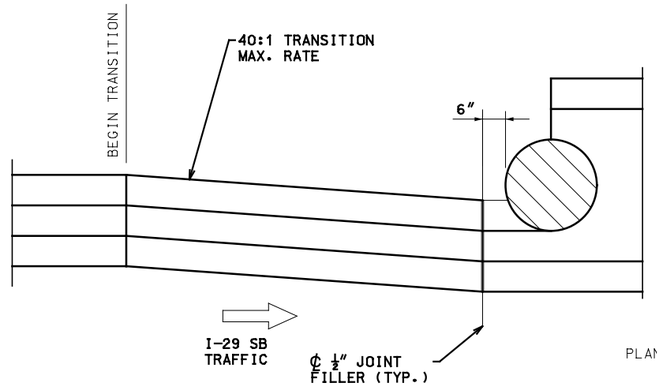
SECTION A-A
TYPE A
TYPICAL SECTION

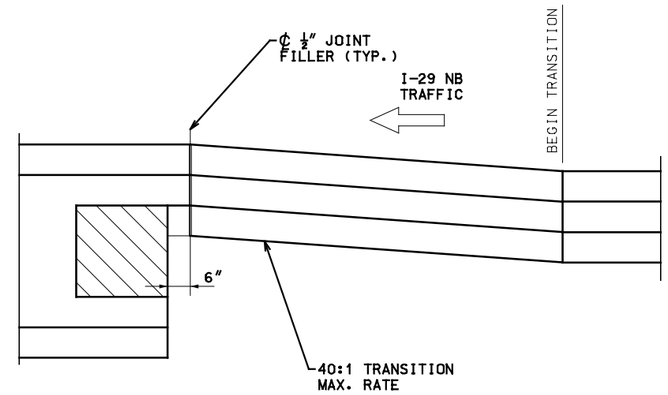


SECTION B-B
TYPE C
TYPICAL SECTION

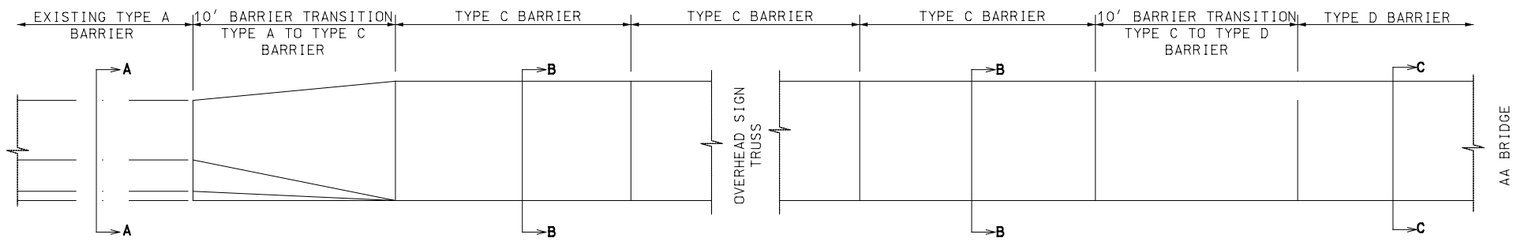


SECTION C-C
TYPE D
TYPICAL SECTION

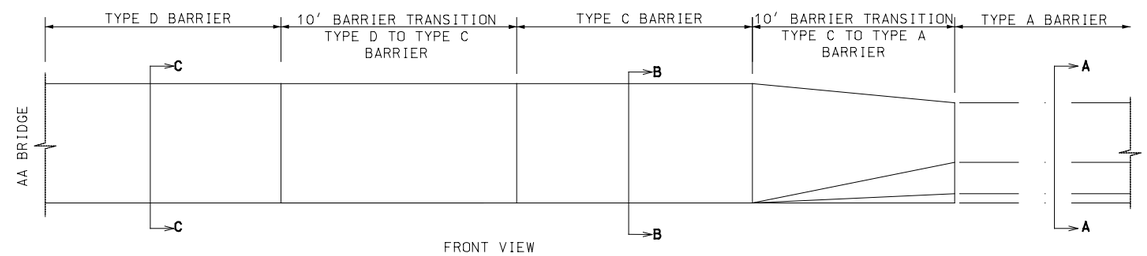




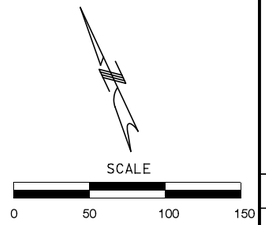
PLAN VIEW

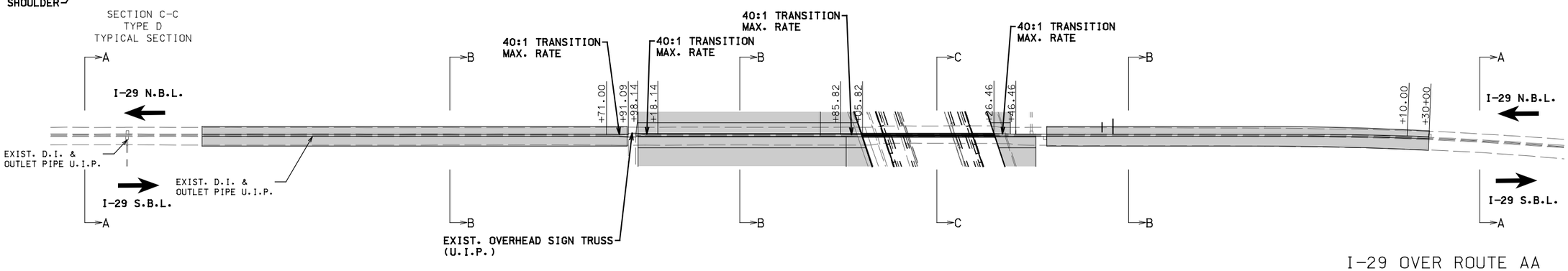


FRONT VIEW



FRONT VIEW





NOTE: WITH APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL ADJUST THE TAPER OF THE CONCRETE BARRIER TO ALLIGN FLUSH WITH OVERHEAD SIGN TRUSS.

I-29 OVER ROUTE AA
BARRIER TRANSITION DETAIL
SHEET 3 OF 5

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	1.3
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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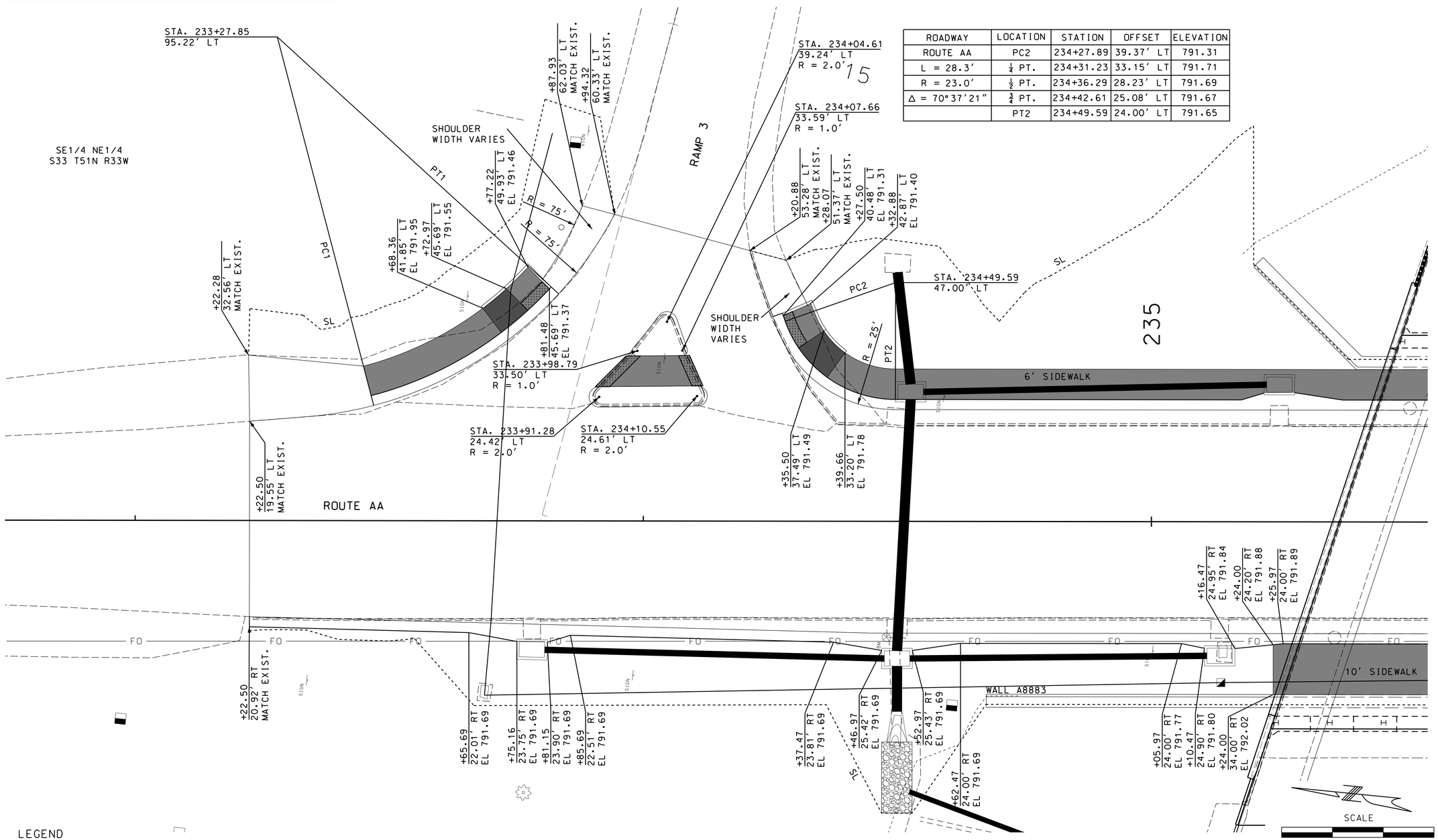
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

ROADWAY	LOCATION	STATION	OFFSET	ELEVATION
ROUTE AA	PC1	233+46.41	24.61′ LT	791.56
L = 42.0′	¼ PT.	233+56.33	28.00′ LT	791.97
R = 73.0′	½ PT.	233+65.66	32.77′ LT	791.91
Δ = 32°56′25″	¾ PT.	233+74.22	38.83′ LT	791.84
	PT1	233+81.81	46.06′ LT	791.78

ROADWAY	LOCATION	STATION	OFFSET	ELEVATION
ROUTE AA	PC2	234+27.89	39.37′ LT	791.31
L = 28.3′	¼ PT.	234+31.23	33.15′ LT	791.71
R = 23.0′	½ PT.	234+36.29	28.23′ LT	791.69
Δ = 70°37′21″	¾ PT.	234+42.61	25.08′ LT	791.67
	PT2	234+49.59	24.00′ LT	791.65



LEGEND

- RAMPS
- SIDEWALK
- TRUNCATED DOMES

GEOMETRIC DETAILS
ROUTE AA
SHEET 4 OF 5

DATE PREPARED: 6/26/2020
ROUTE: I-29 | STATE: MO
DISTRICT: KC | SHEET NO.: 14
COUNTY: PLATTE
JOB NO.: J4I3297
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)

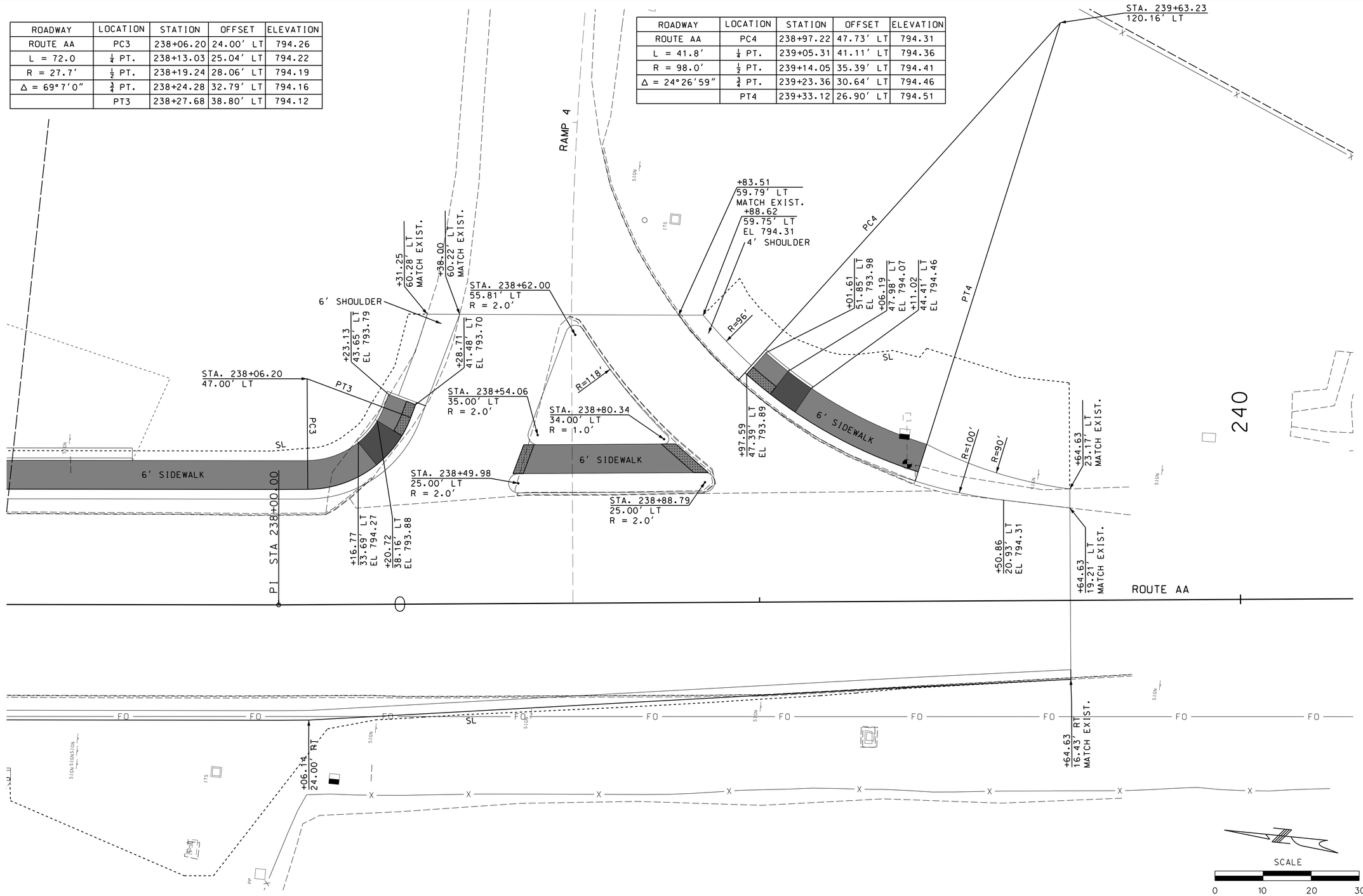
TREKK DESIGN GROUP, LLC
1411 East 108th St.
Kansas City, MO 64131
Tel: (816) 874-4655
Fax: (816) 874-4675
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

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

013_SS_01_J4I3297_110_RTEAA.dgn 12:48:17 PM 6/26/2020

ROADWAY	LOCATION	STATION	OFFSET	ELEVATION
ROUTE AA	PC3	238+06.20	24.00' LT	794.26
L = 72.0	1/4 PT.	238+13.03	25.04' LT	794.22
R = 27.7'	1/2 PT.	238+19.24	28.06' LT	794.19
Δ = 69°7'0"	3/4 PT.	238+24.28	32.79' LT	794.16
	PT3	238+27.68	38.80' LT	794.12

ROADWAY	LOCATION	STATION	OFFSET	ELEVATION
ROUTE AA	PC4	238+97.22	47.73' LT	794.31
L = 41.8'	1/4 PT.	239+05.31	41.11' LT	794.36
R = 98.0'	1/2 PT.	239+14.05	35.39' LT	794.41
Δ = 24°26'59"	3/4 PT.	239+23.36	30.64' LT	794.46
	PT4	239+33.12	26.90' LT	794.51



LEGEND

- RAMPS
- SIDEWALK
- TRUNCATED DOMES

SPECIAL SHEETS
GEOMETRIC DETAILS
ROUTE AA
SHEET 5 OF 5

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	15
COUNTY	PLATTE
JOB NO.	J4I3297
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)

1411 East 104th St.
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
www.trekdesigngroup.com

Missouri Cert. of Authority 2002010300

TREK DESIGN GROUP, LLC

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

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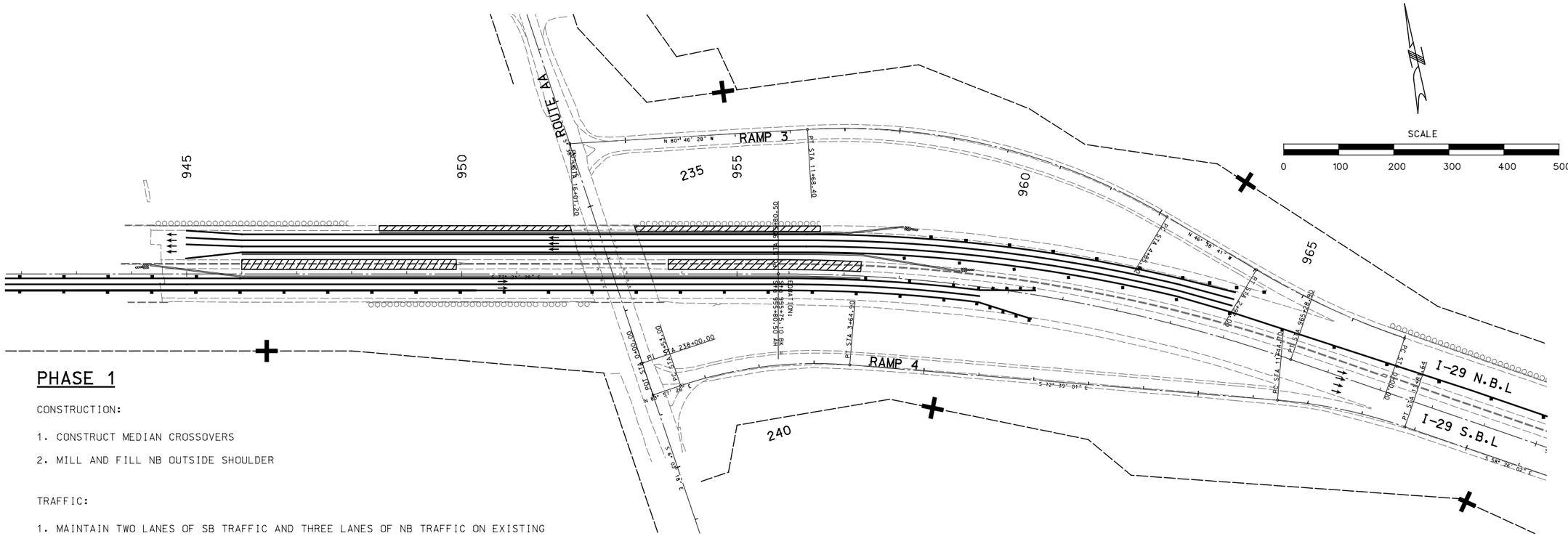


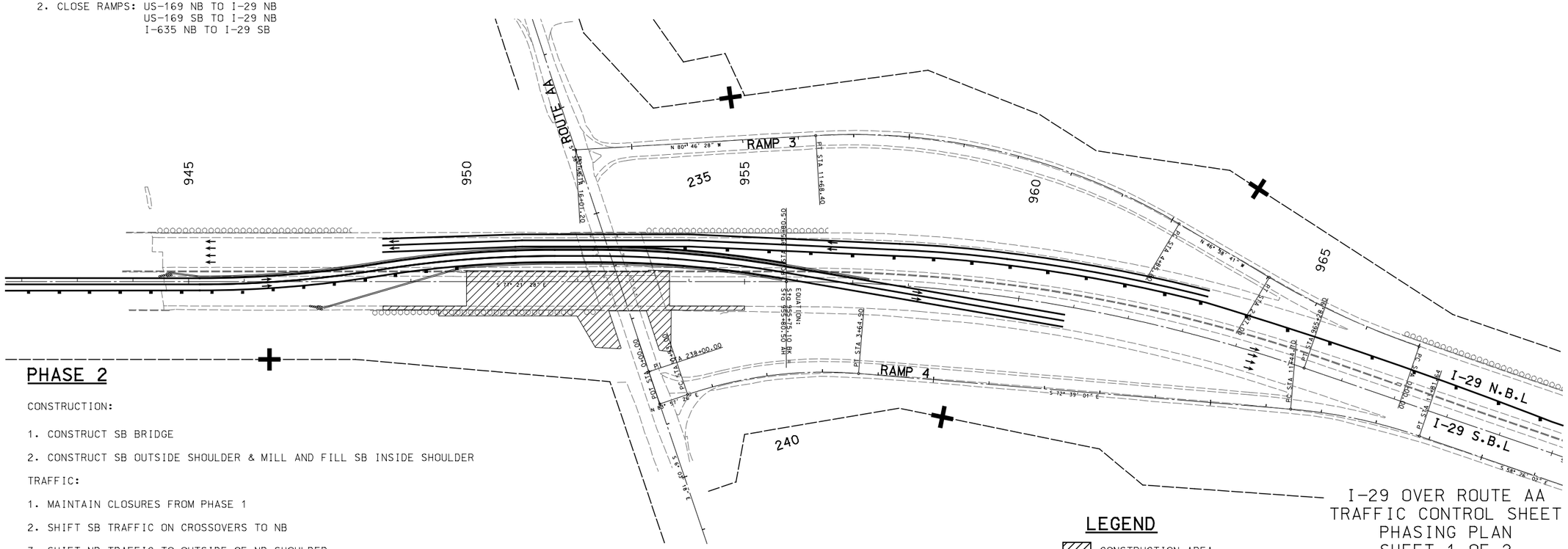
PHASE 1

CONSTRUCTION:

1. CONSTRUCT MEDIAN CROSSOVERS
2. MILL AND FILL NB OUTSIDE SHOULDER

TRAFFIC:

1. MAINTAIN TWO LANES OF SB TRAFFIC AND THREE LANES OF NB TRAFFIC ON EXISTING
2. CLOSE RAMPS: US-169 NB TO I-29 NB
   US-169 SB TO I-29 NB
   I-635 NB TO I-29 SB



PHASE 2

CONSTRUCTION:

1. CONSTRUCT SB BRIDGE
2. CONSTRUCT SB OUTSIDE SHOULDER & MILL AND FILL SB INSIDE SHOULDER

TRAFFIC:

1. MAINTAIN CLOSURES FROM PHASE 1
2. SHIFT SB TRAFFIC ON CROSSOVERS TO NB
3. SHIFT NB TRAFFIC TO OUTSIDE OF NB SHOULDER

LEGEND

CONSTRUCTION AREA

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASING PLAN
SHEET 1 OF 2

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	16
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

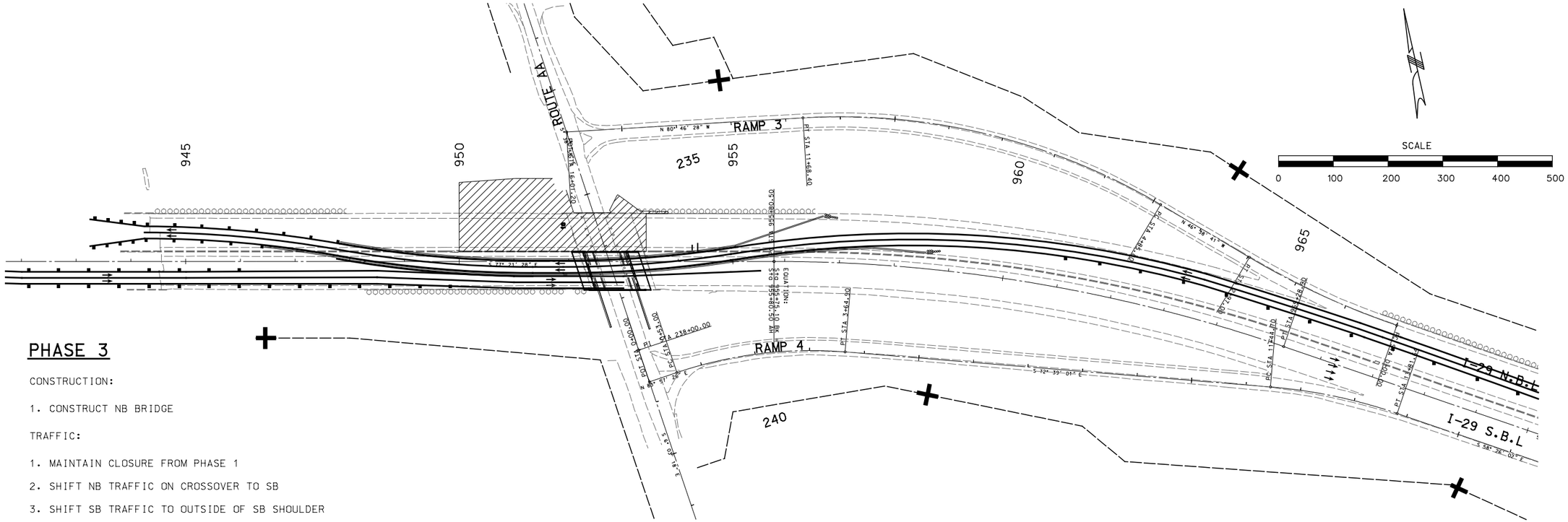
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority No. : 000165

BMcD Project No. 109387

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

REV.



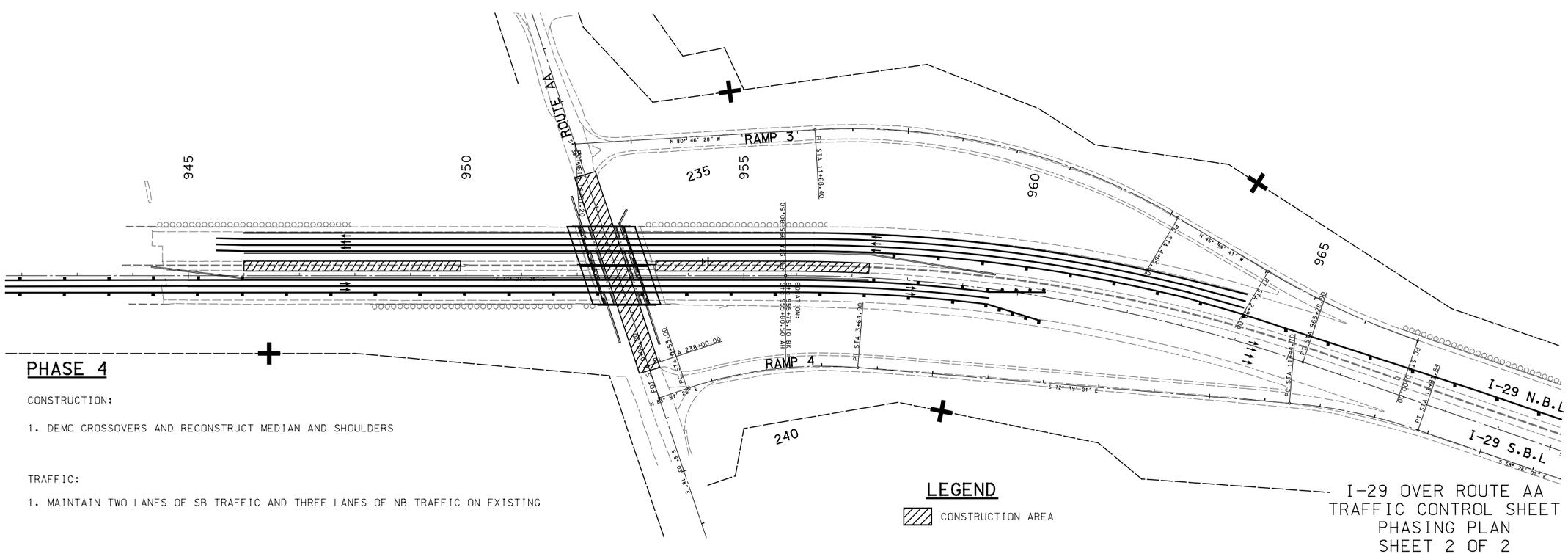
PHASE 3

CONSTRUCTION:

1. CONSTRUCT NB BRIDGE

TRAFFIC:

1. MAINTAIN CLOSURE FROM PHASE 1
2. SHIFT NB TRAFFIC ON CROSSOVER TO SB
3. SHIFT SB TRAFFIC TO OUTSIDE OF SB SHOULDER



PHASE 4

CONSTRUCTION:

1. DEMO CROSSOVERS AND RECONSTRUCT MEDIAN AND SHOULDERS

TRAFFIC:

1. MAINTAIN TWO LANES OF SB TRAFFIC AND THREE LANES OF NB TRAFFIC ON EXISTING

LEGEND

CONSTRUCTION AREA

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASING PLAN
SHEET 2 OF 2

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	1.7
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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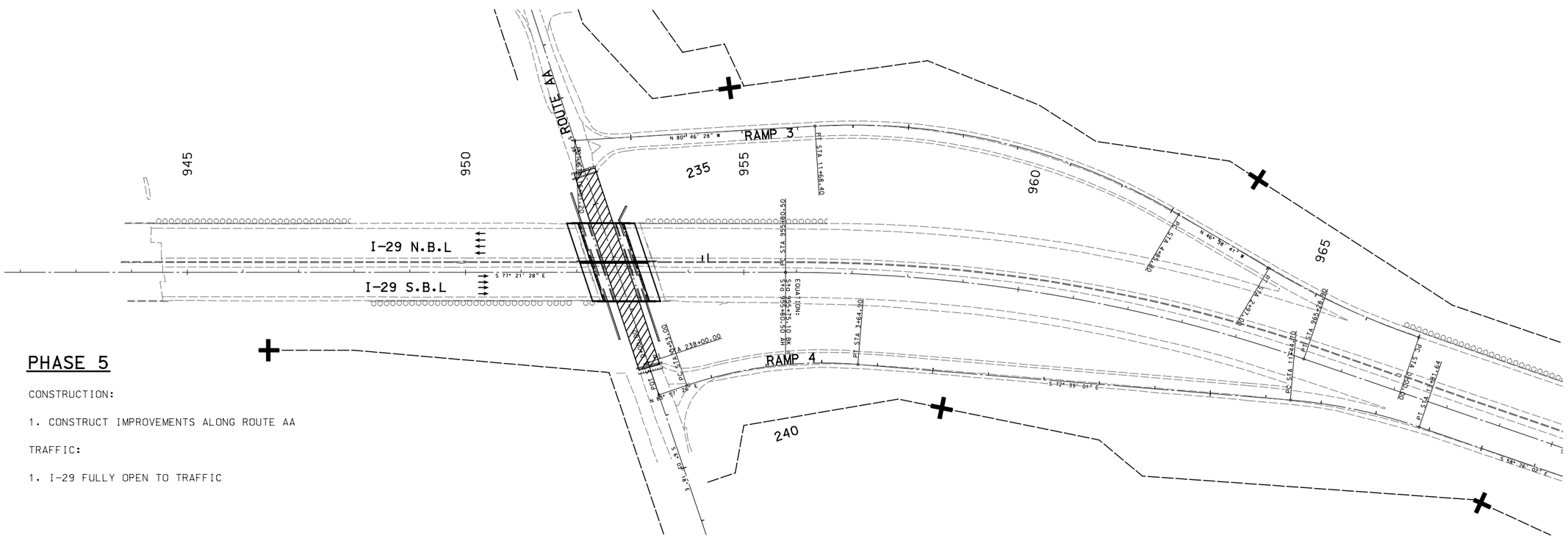
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

REV.

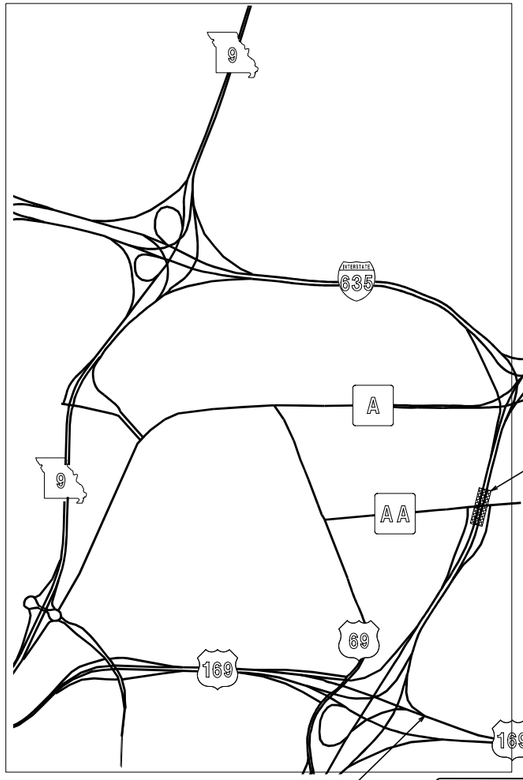
\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_TC_02_J413297_I100_MOT.dgn 5:38:53 PM 7/19/2020


SCALE
0 100 200 300 400 500
ROUTE AA
RAMP 3
RAMP 4
I-29 N.B.L
I-29 S.B.L
945
950
955
960
965
235
240
N 80° 46' 28" W
S 77° 21' 28" E
S 92° 39' 01" E
S 88° 26' 02" E
PT STA 11+68.40
PC STA 955+80.50
PT STA 3+64.90
PT STA 9+62.80
PT STA 11+74.80
PC STA 238+00.00
PT STA 1+81.64
PT STA 0+00.00
PC STA 0+55.00
PT STA 0+55.00
PT STA 4+85.80
PT STA 2+97.08
PT STA 0+00.00
PT STA 1+81.64
PT STA 0+00.00
PT STA 1+81.64
PT STA 0+00.00
PT STA 1+81.64

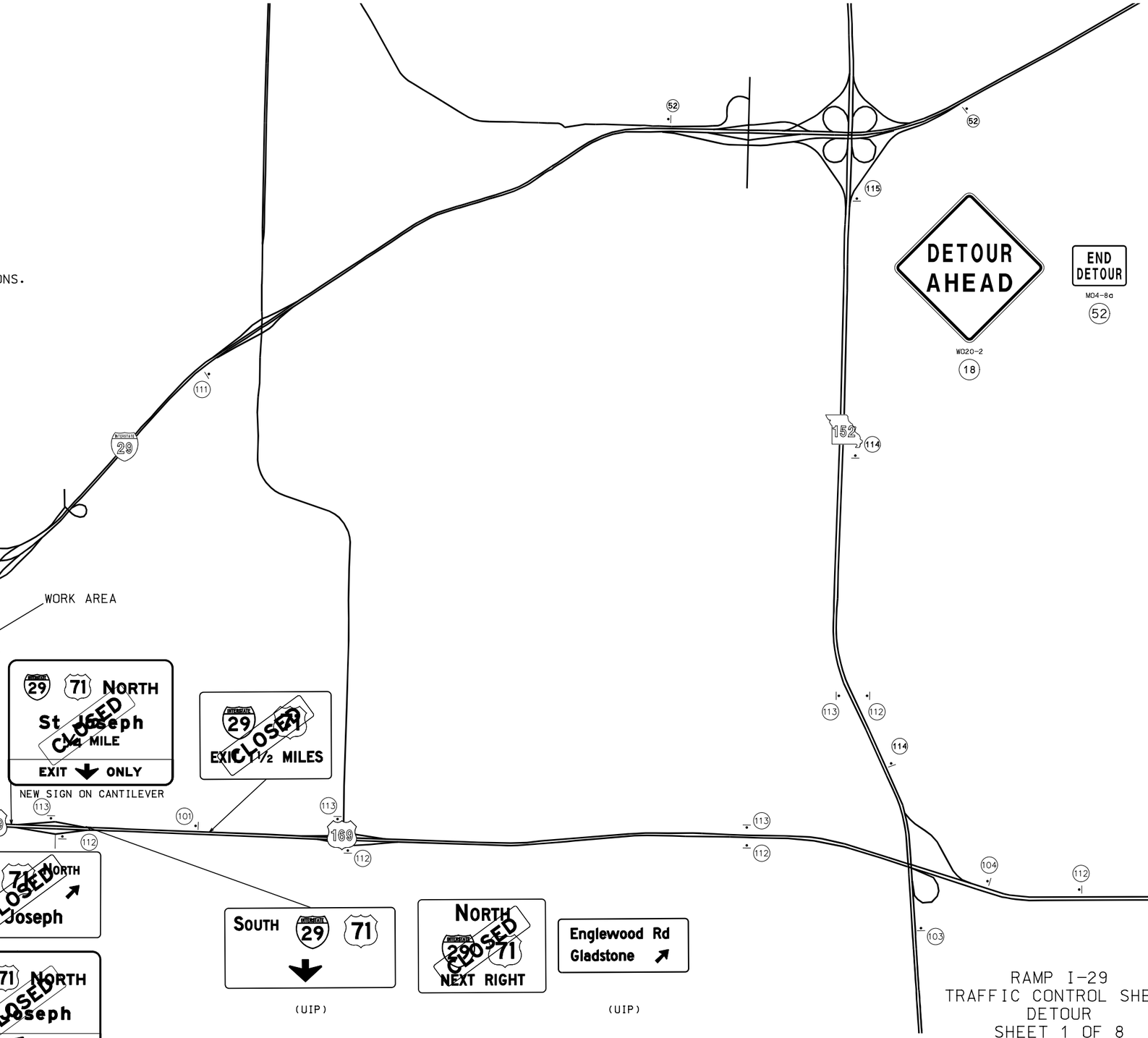
NOTES:
1. UTILIZE DETOUR PLAN DURING ALL PHASES OF CONSTRUCTION.

NOT TO SCALE

SEE SHEET 20 AND SHEET 21 FOR DETOUR SIGN LOCATIONS.



WORK AREA



DETOUR AHEAD
W020-2
18

END DETOUR
M04-8a
52

29 71 NORTH
St Joseph
CLOSED
1/4 MILE
EXIT ONLY
NEW SIGN ON CANTILEVER

29
CLOSED
EXIT 1 1/2 MILES

SOUTH 29 71
(UIP)

169 SOUTH
Kansas City
(UIP)

29 71 NORTH
St Joseph
CLOSED

29 71 NORTH
St Joseph
CLOSED
EXIT ONLY
NEW SIGN ON TRUSS

SOUTH 29 71
(UIP)

NORTH
29 71
CLOSED
NEXT RIGHT

Englewood Rd
Gladstone
(UIP)

RAMP I-29
TRAFFIC CONTROL SHEET
DETOUR
SHEET 1 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	19
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

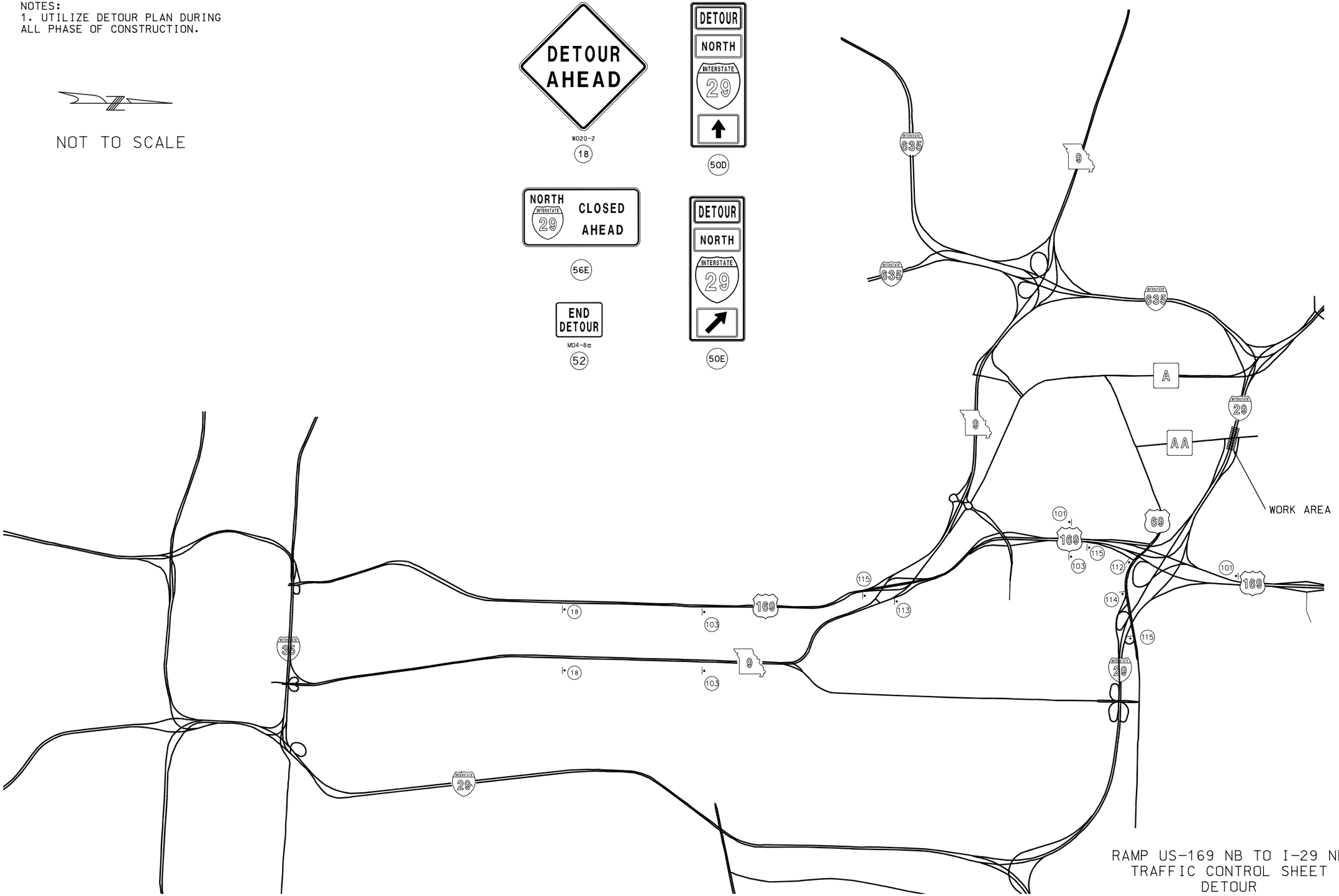
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_TC_04_J413297_I100_DETOUR1.dgn 5:38:58 PM 7/19/2020

NOTES:
1. UTILIZE DETOUR PLAN DURING ALL PHASE OF CONSTRUCTION.

NOT TO SCALE



RAMP US-169 NB TO I-29 NB
TRAFFIC CONTROL SHEET
DETOUR
SHEET 2 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	K-C
SHEET NO.	20
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

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NOTES:
1. UTILIZE DETOUR PLAN DURING ALL PHASE OF CONSTRUCTION

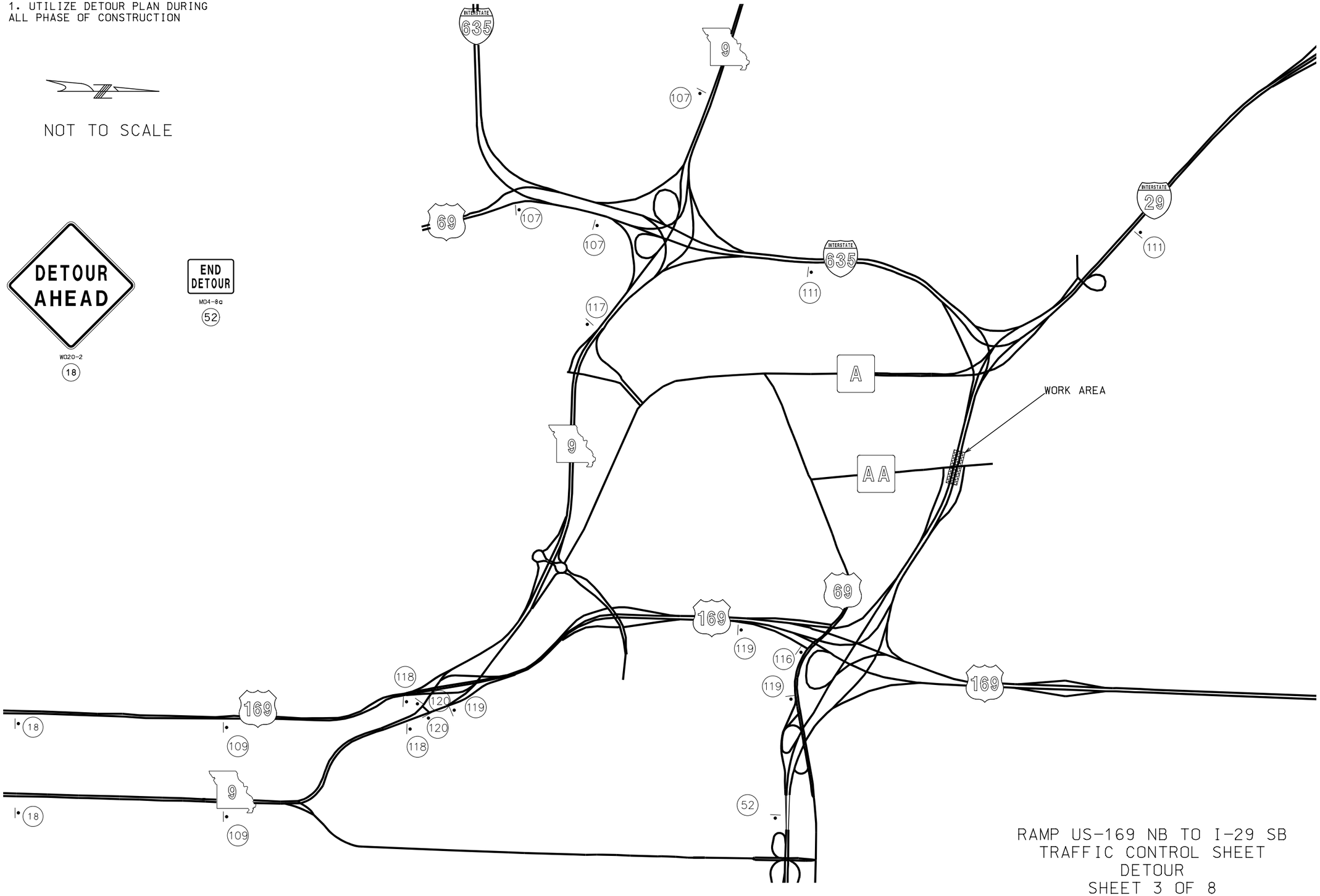
NOT TO SCALE

W020-2

18

M04-8a

52



RAMP US-169 NB TO I-29 SB
TRAFFIC CONTROL SHEET
DETOUR
SHEET 3 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	21
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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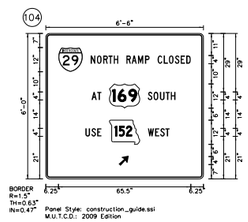
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_TC_06_J413297_I100_DETOUR3.dgn 5:39:01 PM 7/19/2020

SIGN DETAIL
1:40



Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

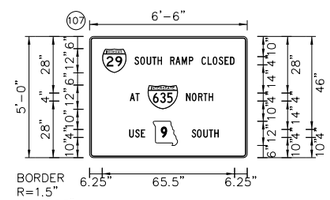
SIGN NUMBER	name	
WIDTH x HGHT.	6'-6" x 6'-0"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	6.2	53	12	12
M1_4	0	31.5	35	15	12
SR_1_3	0	31.5	17	15	12
AR_Type A	90	35.8	7	4	6.3

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
N	O	R	T	H		R	A	M	P		C	L	O	S	E	D							C 2000
22.2	25.3	28.4	31	33.6	35.9	39.9	42.5	45.6	49.1	51.4	55.4	58.4	60.9	63.9	66.8	69.5						49.5	4
A	T																						C 2000
22.7	25.5																					4.8	4
S	O	U	T	H																			C 2000
50.5	53.3	56.5	59.3	61.9																		13.6	4
U	S	E																					C 2000
19.6	22.5	25.5																				7.9	4
W	E	S	T																				C 2000
50.5	54.1	56.6	59.2																			10.8	4

SIGN DETAIL
1:40



Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	name	
WIDTH x HGHT.	6'-6" x 5'-0"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	6.2	42	12	12
M1_1	0	28.7	24	15	12
SR_1_2	0	31.5	6	12	12

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
S	O	U	T	H		R	A	M	P		C	L	O	S	E	D							C 2000
22.2	25.1	28.2	31	33.6	35.9	39.9	42.5	45.6	49.1	51.4	55.4	58.4	60.9	63.9	66.8	69.5						49.5	4
A	T																						C 2000
19.9	22.7																					4.8	4
N	O	R	T	H																			C 2000
47.7	50.6	53.7	56.3	58.9																		13.4	4
U	S	E																					C 2000
19.6	22.5	25.5																				7.9	4
S	O	U	T	H																			C 2000
50.5	53.1	56.3	59.1	61.7																		13.4	4

I-29 OVER ROUTE AA
DETOUR
SIGN DETAILS
SHEET 5 OF 8

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

DATE PREPARED	
7/19/2020	
ROUTE: I-29	STATE: MO
DISTRICT: K.C	SHEET NO.: 23
COUNTY: PLATTE	
JOB NO.: J4I3297	
CONTRACT ID.: .	
PROJECT NO.: .	
BRIDGE NO.: .	

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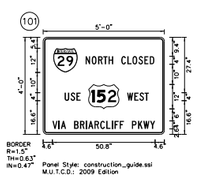
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_TC_06a_J413297_1100_DETOUR4.dgn 5:39:03 PM 7/19/2020

SIGN DETAIL
1:40



SIGN NUMBER	name
WIDTH x HGHT.	5'-0" x 4'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	5	30.6	12	12
M1_4	0	22.5	12.6	15	12

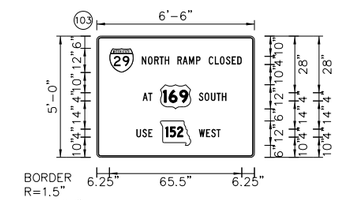
Panel Style: construction_guide.ssi
Dimensions are in Inches,1ents

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
N	O	R	T	H		C	L	O	S	E	D												C 2000
21	24	27.2	29.8	32.4	34.6	38.6	41.7	44.2	47.1	50.1	52.8											34	4
U	S	E																					C 2000
10.6	13.5	16.5																				7.9	4
W	E	S	T																				C 2000
41.5	45.1	47.6	50.2																			10.8	4
V	I	A		B	R	I	A	R	C	L	I	F	F		P	K	W	Y					C 2000
4.6	7.6	8.7	11.3	15.3	18.2	21.1	22.3	25.4	28.2	31.3	33.9	35.3	37.9	39.9	43.9	47	49.6	52.9				50.8	4

SIGN DETAIL
1:40



SIGN NUMBER	name
WIDTH x HGHT.	6'-6" x 5'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	6.2	42	12	12
M1_4	0	31.5	24	15	12
SR_1_3	0	31.5	6	15	12

Panel Style: construction_guide.ssi
Dimensions are in Inches,1ents

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
N	O	R	T	H		R	A	M	P		C	L	O	S	E	D							C 2000
22.2	25.3	28.4	31	33.6	35.9	39.9	42.5	45.6	49.1	51.4	55.4	58.4	60.9	63.9	66.8	69.5						49.5	4
A	T																						C 2000
22.7	25.5																					4.8	4
S	O	U	T	H																			C 2000
50.5	53.3	56.5	59.3	61.9																		13.6	4
U	S	E																					C 2000
19.6	22.5	25.5																				7.9	4
W	E	S	T																				C 2000
50.5	54.1	56.6	59.2																			10.8	4

I-29 OVER ROUTE AA
DETOUR
SIGN DETAILS
SHEET 4 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	K-C
SHEET NO.	2.2
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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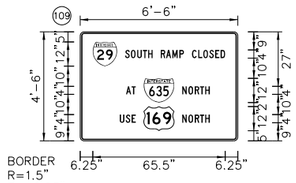
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

SIGN DETAIL
1:40



Panel Style: construction_guide.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

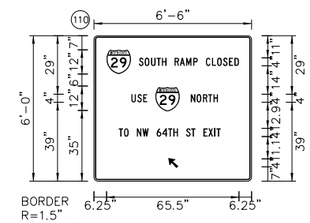
SIGN NUMBER	name
WIDTH x HGHT.	6'-6" x 4'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	6.2	37	12	12
M1_1	0	31.5	19	15	12
M1_4	0	31.5	5	15	12

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
S	O	U	T	H		R	A	M	P		C	L	O	S	E	D							C 2000
22.2	25.1	28.2	31	33.6	35.9	39.9	42.5	45.6	49.1	51.4	55.4	58.4	60.9	63.9	66.8	69.5						49.5	4
A	T																						C 2000
22.7	25.5																					4.8	4
N	O	R	T	H																			C 2000
50.5	53.5	56.7	59.3	61.9																		13.6	4
U	S	E																					C 2000
19.6	22.5	25.5																				7.9	4
N	O	R	T	H																			C 2000
50.5	53.5	56.7	59.3	61.9																		13.6	4

SIGN DETAIL
1:40



Panel Style: construction_guide.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

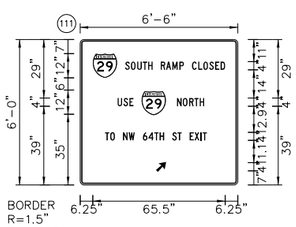
SIGN NUMBER	name
WIDTH x HGHT.	6'-6" x 6'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	6.2	53	12	12
M1_1	0	28.9	35	15	12
AR_Type A	90	36.2	7	4	6.3

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
S	O	U	T	H		R	A	M	P		C	L	O	S	E	D							C 2000
22.2	25.1	28.2	31	33.6	35.9	39.9	42.5	45.6	49.1	51.4	55.4	58.4	60.9	63.9	66.8	69.5						49.5	4
U	S	E																					C 2000
18.5	21.4	24.3																				7.9	4
N	O	R	T	H																			C 2000
47.9	50.8	53.9	56.5	59.1																		13.4	4
T	O		N	W		6	4	T	H		S	T		E	X	I	T						C 2000
12.3	14.8	17.2	21.2	24	27	31	33.8	36.7	39.3	41.6	45.6	48.2	50.2	54.2	56.6	59.5	60.6					50.4	4

SIGN DETAIL
1:40



Panel Style: construction_guide.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

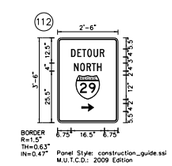
SIGN NUMBER	name
WIDTH x HGHT.	6'-6" x 6'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	6.2	53	12	12
M1_1	0	28.9	35	15	12
AR_Type A	90	36.2	7	4	6.3

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
S	O	U	T	H		R	A	M	P		C	L	O	S	E	D							C 2000
22.2	25.1	28.2	31	33.6	35.9	39.9	42.5	45.6	49.1	51.4	55.4	58.4	60.9	63.9	66.8	69.5						49.5	4
U	S	E																					C 2000
18.5	21.4	24.3																				7.9	4
N	O	R	T	H																			C 2000
47.9	50.8	53.9	56.5	59.1																		13.4	4
T	O		N	W		6	4	T	H		S	T		E	X	I	T						C 2000
12.3	14.8	17.2	21.2	24	27	31	33.8	36.7	39.3	41.6	45.6	48.2	50.2	54.2	56.6	59.5	60.6					50.4	4

SIGN DETAIL
1:40



Panel Style: construction_guide.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	2'-6" x 3'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	11.5	12	12
AR_Type A	270	11.8	5.5	4	6.3

LETTER POSITIONS (X)

																						LENGTH	SERIES/SIZE
D	E	T	O	U	R																		C 2000
6.8	9.8	12.2	14.7	17.9	21																	16.5	4
N	O	R	T	H																			C 2000
8.2	11.2	14.4	17	19.6																		13.6	4

I-29 OVER ROUTE AA
DETOUR
SIGN DETAILS
SHEET 6 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	2.4
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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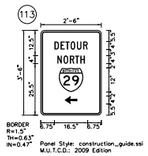
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	11.5	12	12
AR_Type A	90	11.8	5.5	4	6.3

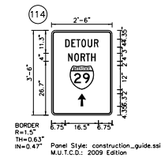
Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES-SIZE
D	E	T	O	U	R																	C 2000
6.8	9.8	12.2	14.7	17.9	21																16.5	4
N	O	R	T	H																		C 2000
8.2	11.2	14.4	17	19.6																	13.6	4

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	12.7	12	12
AR_Type A	0	13	4.3	4	6.3

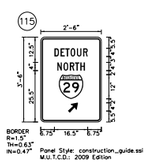
Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES-SIZE
D	E	T	O	U	R																	C 2000
6.8	9.8	12.2	14.7	17.9	21																16.5	4
N	O	R	T	H																		C 2000
8.2	11.2	14.4	17	19.6																	13.6	4

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	11.5	12	12
AR_Type A	90	11.8	5.5	4	6.3

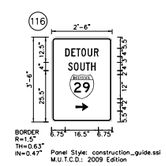
Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES-SIZE
D	E	T	O	U	R																	C 2000
6.8	9.8	12.2	14.7	17.9	21																16.5	4
N	O	R	T	H																		C 2000
8.2	11.2	14.4	17	19.6																	13.6	4

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	11.5	12	12
AR_Type A	270	11.8	5.5	4	6.3

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES-SIZE
D	E	T	O	U	R																	C 2000
6.8	9.8	12.2	14.7	17.9	21																16.5	4
S	O	U	T	H																		C 2000
8.2	11	14.2	17	19.6																	13.6	4

I-29 OVER ROUTE AA
DETOUR
SIGN DETAILS
SHEET 7 OF 8

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

DATE PREPARED	
7/19/2020	
ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	25
COUNTY	
PLATTE	
JOB NO.	
J4I3297	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
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DATE	DESCRIPTION
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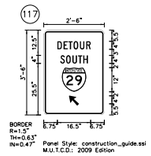
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

BURNS McDONNELL

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

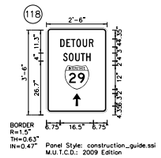
SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	11.5	12	12
AR_Type A	90	11.8	5.5	4	6.3

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES-SIZE
D	E	T	O	U	R																C 2000
6.8	9.8	12.2	14.7	17.9	21															16.5	4
S	O	U	T	H																	C 2000
8.2	11	14.2	17	19.6																13.6	4

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

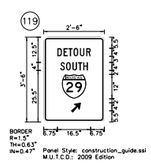
SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	12.7	12	12
AR_Type A	0	13	4.3	4	6.3

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES-SIZE
D	E	T	O	U	R																C 2000
6.8	9.8	12.2	14.7	17.9	21															16.5	4
S	O	U	T	H																	C 2000
8.2	11	14.2	17	19.6																13.6	4

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

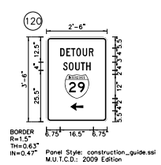
SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	11.5	12	12
AR_Type A	90	11.8	5.5	4	6.3

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES-SIZE
D	E	T	O	U	R																C 2000
6.8	9.8	12.2	14.7	17.9	21															16.5	4
S	O	U	T	H																	C 2000
8.2	11	14.2	17	19.6																13.6	4

SIGN DETAIL
1:40



SIGN NUMBER	name	
WIDTH x HGHT.	2'-6" x 3'-6"	
BORDER WIDTH	0.63"	
CORNER RADIUS	1.5"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Orange
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Black/Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	9	11.5	12	12
AR_Type A	270	11.8	5.5	4	6.3

Panel Style: construction_guide.ssi
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LETTER POSITIONS (X)																				LENGTH	SERIES-SIZE
D	E	T	O	U	R																C 2000
6.8	9.8	12.2	14.7	17.9	21															16.5	4
S	O	U	T	H																	C 2000
8.2	11	14.2	17	19.6																13.6	4

I-29 OVER ROUTE AA
DETOUR
SIGN DETAILS
SHEET 8 OF 8

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

DATE PREPARED	
7/19/2020	
ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	26
COUNTY	
PLATTE	
JOB NO.	
J4I3297	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
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DESCRIPTION	DATE
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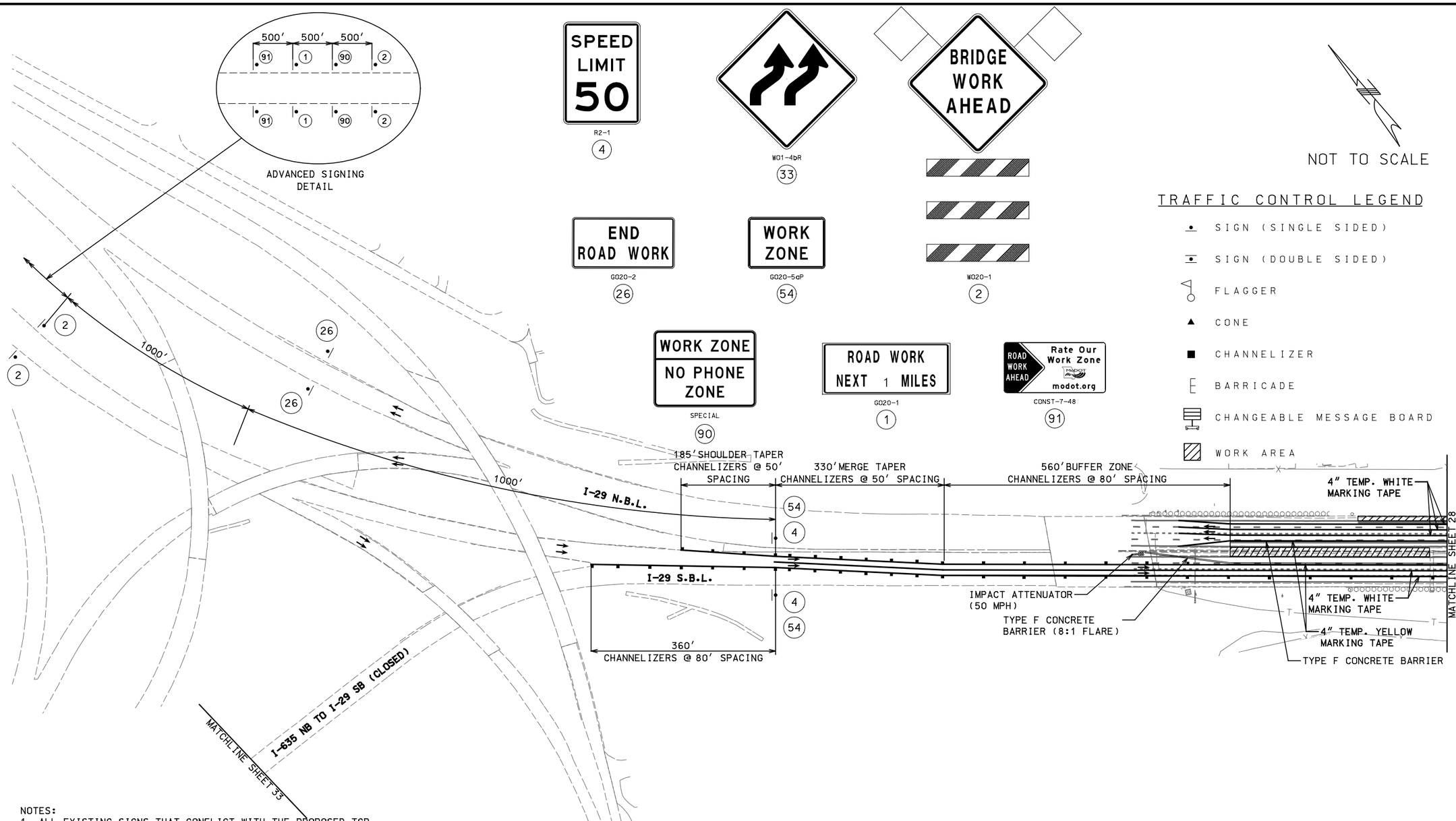
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA

NOTES:

1. ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVED, NO DIRECT PAY.

2. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.

3. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKING OR SIGNING.

4. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. COORDINATE WITH ENGINEER.

5. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.

6. NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS. ALL WARNING SIGNS SHALL HAVE FLORESCENT SHEETING.

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 1 OF 8

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

DATE PREPARED	
7/19/2020	
ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	27
COUNTY	
PLATTE	
JOB NO.	
J4I3297	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DATE	DESCRIPTION
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JEFFERSON CITY, MO 65102
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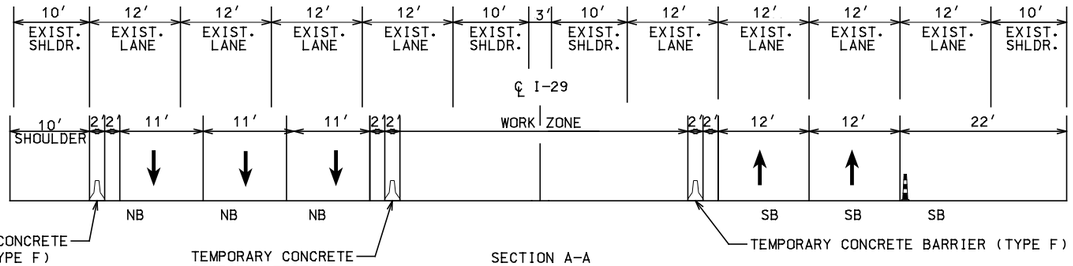
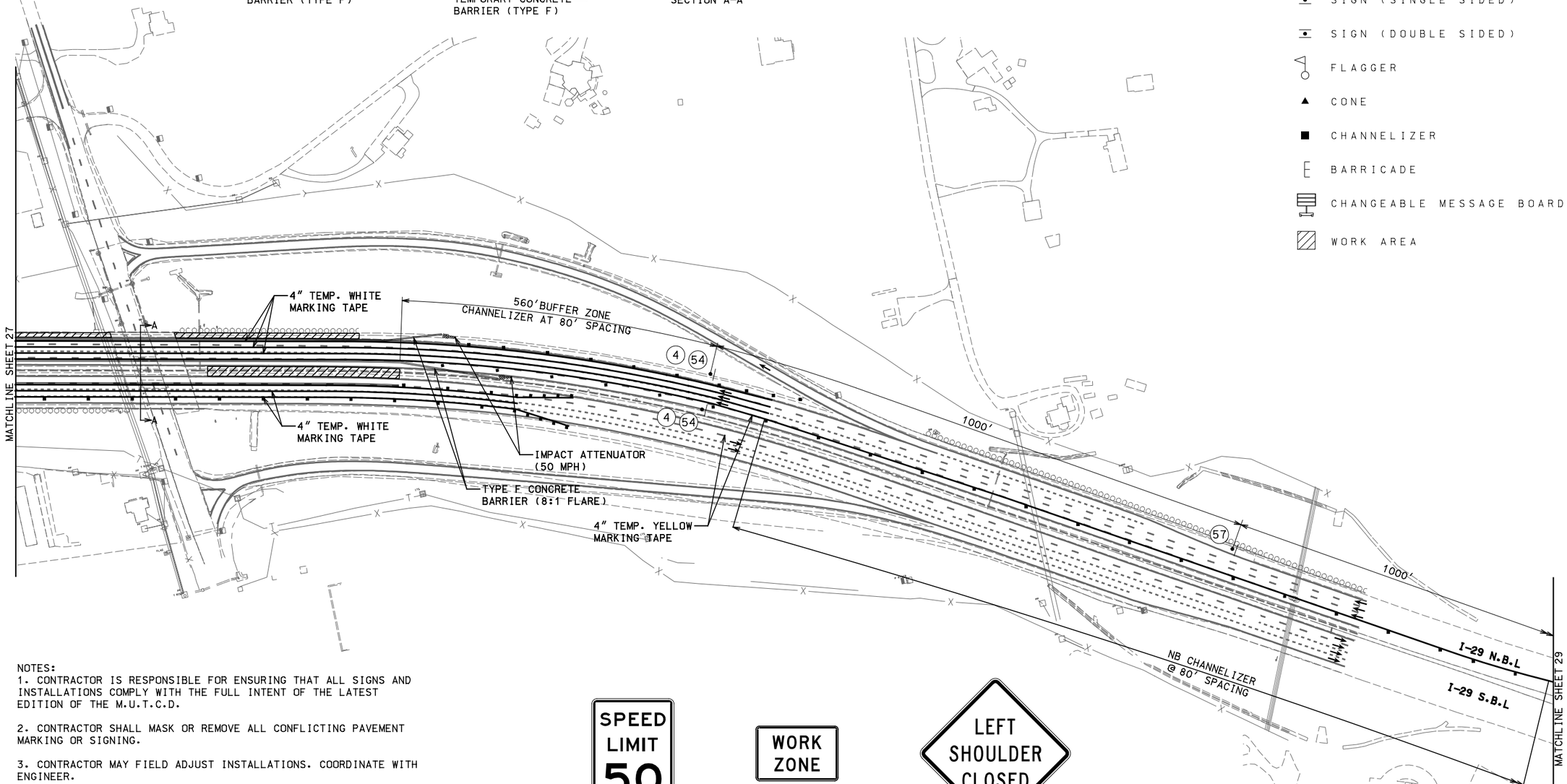
Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

REV.

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_TC_07_J413297_I100_PHASE 1.dgn 5:39:12 PM 7/19/2020



SECTION A-A



NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.

2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKING OR SIGNING.

3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. COORDINATE WITH ENGINEER.

4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.

R2-1

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G020-5aP

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W021-5aL

57

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 2 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	28
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

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

REV.

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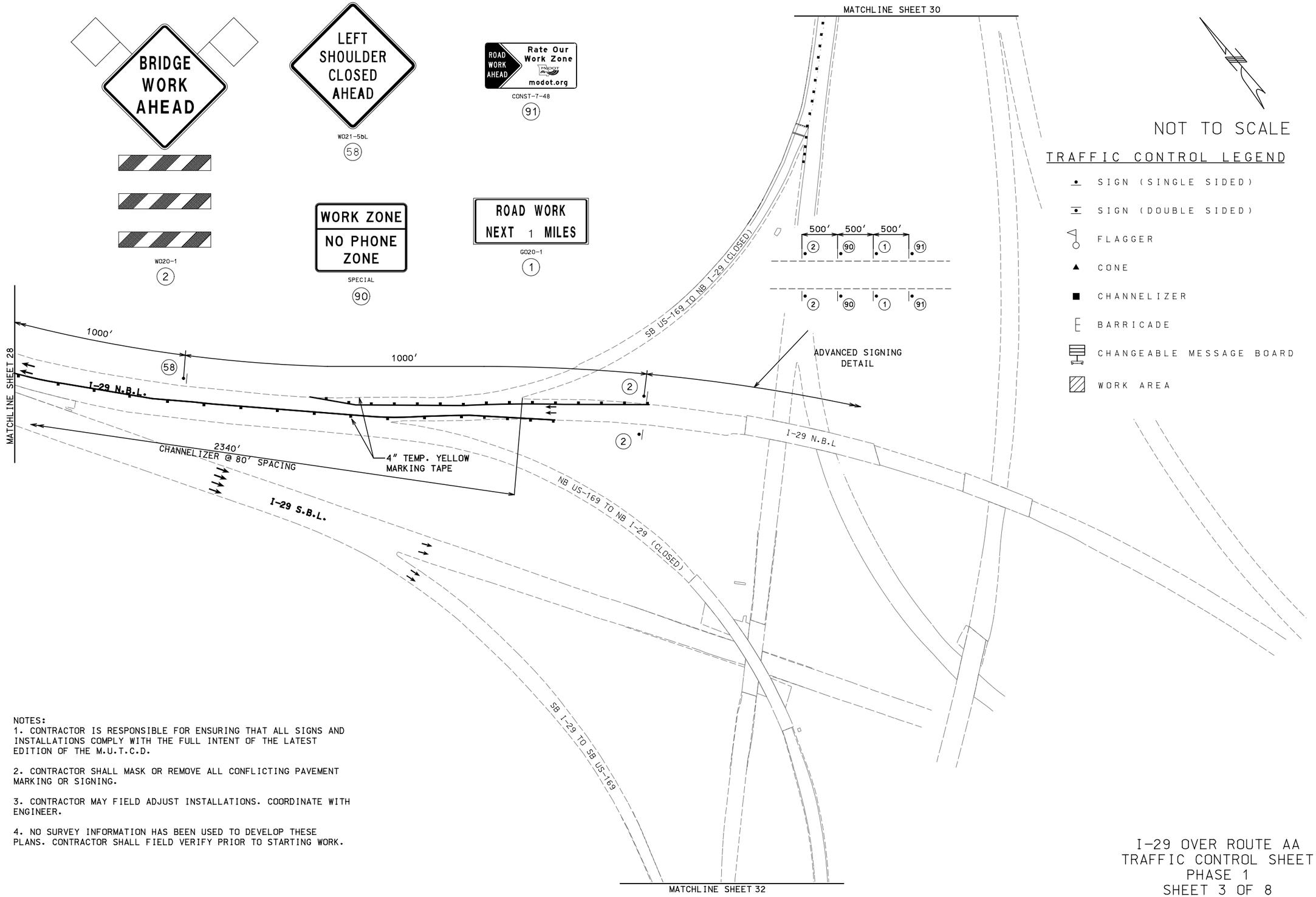

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.

2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKING OR SIGNING.

3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. COORDINATE WITH ENGINEER.

4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 3 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	29
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

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

REV.

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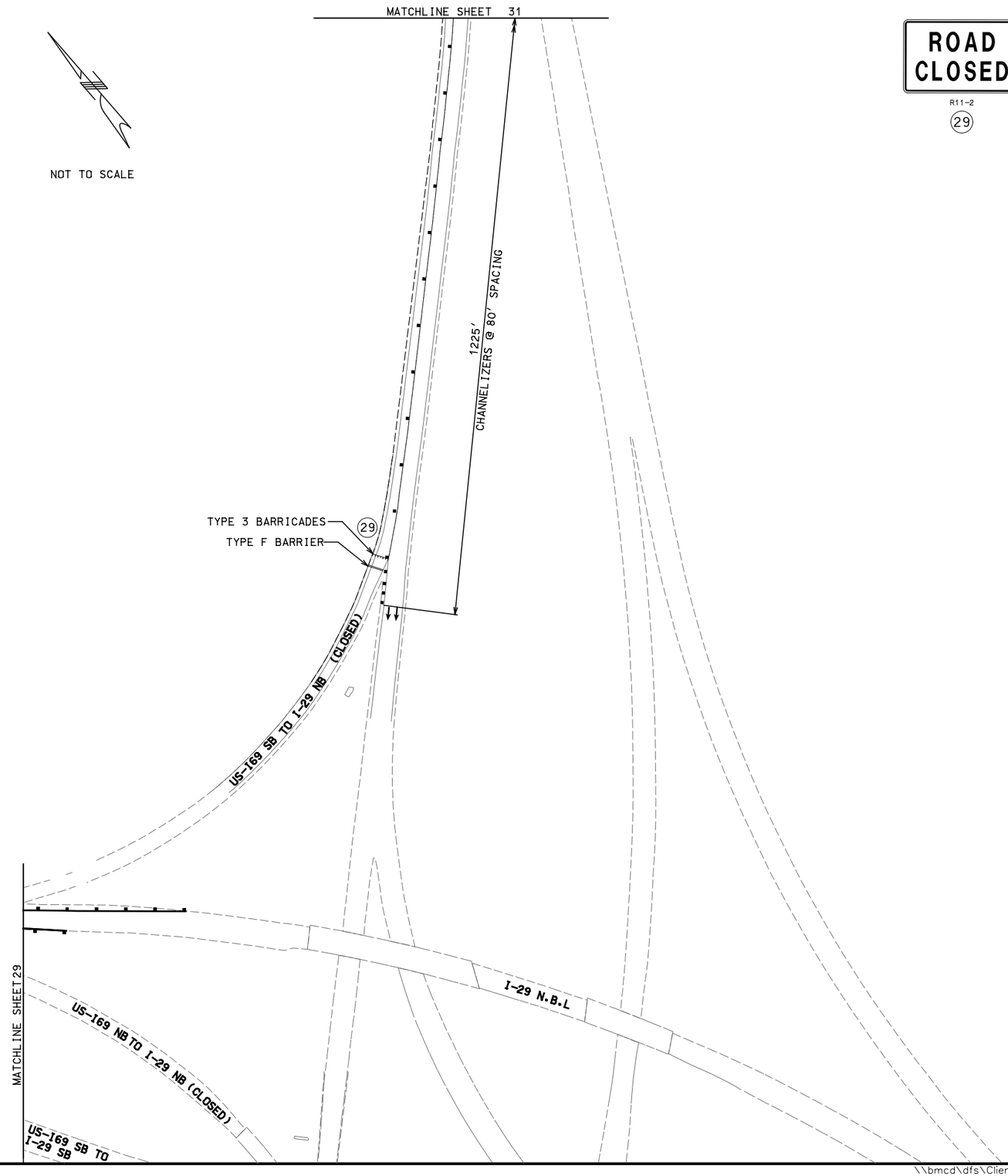

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.

2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKING OR SIGNING.

3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. COORDINATE WITH ENGINEER.

4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.

5. CLOSURE OF US-169 SB TO I-29 NB RAMP IS APPLICABLE TO ALL PHASES

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 4 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	30
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

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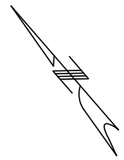

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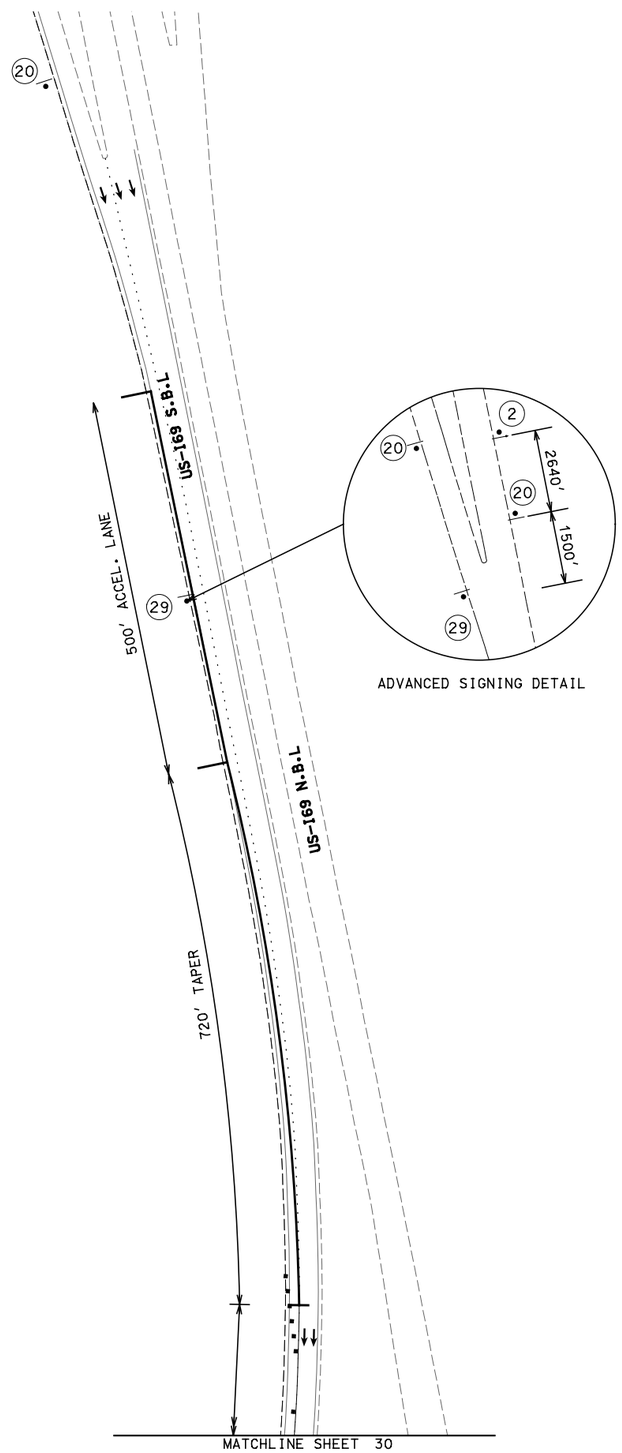

ADVANCED SIGNING DETAIL

W020-1

2

W020-3

20

R11-2

29

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.

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4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.

5. CLOSURE OF US-169 SB TO I-29 NB RAMP IS APPLICABLE TO ALL PHASES

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 5 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	31
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

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

REV.

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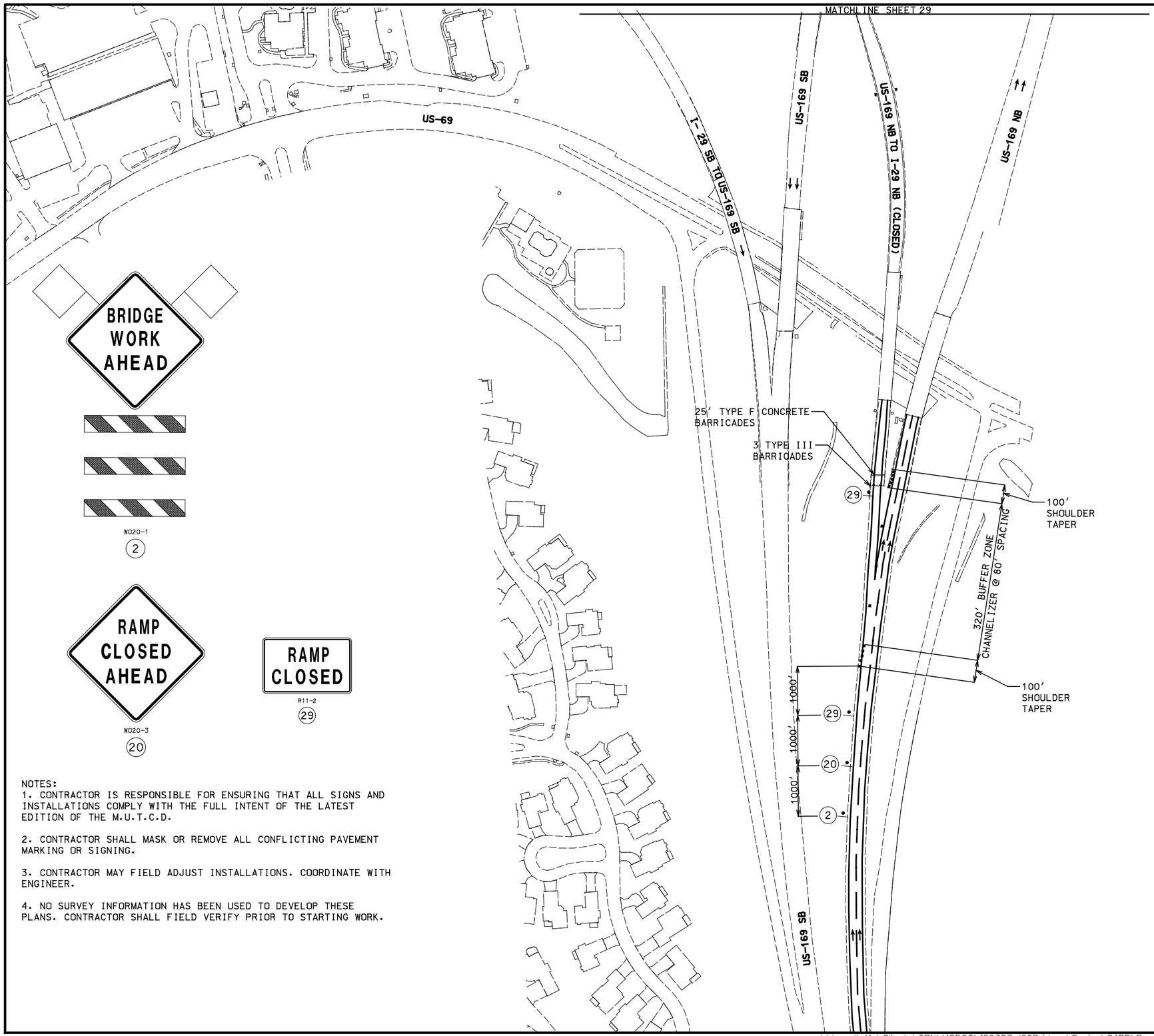

NOTES:
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NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 6 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	32
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

REV.

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NOTES:
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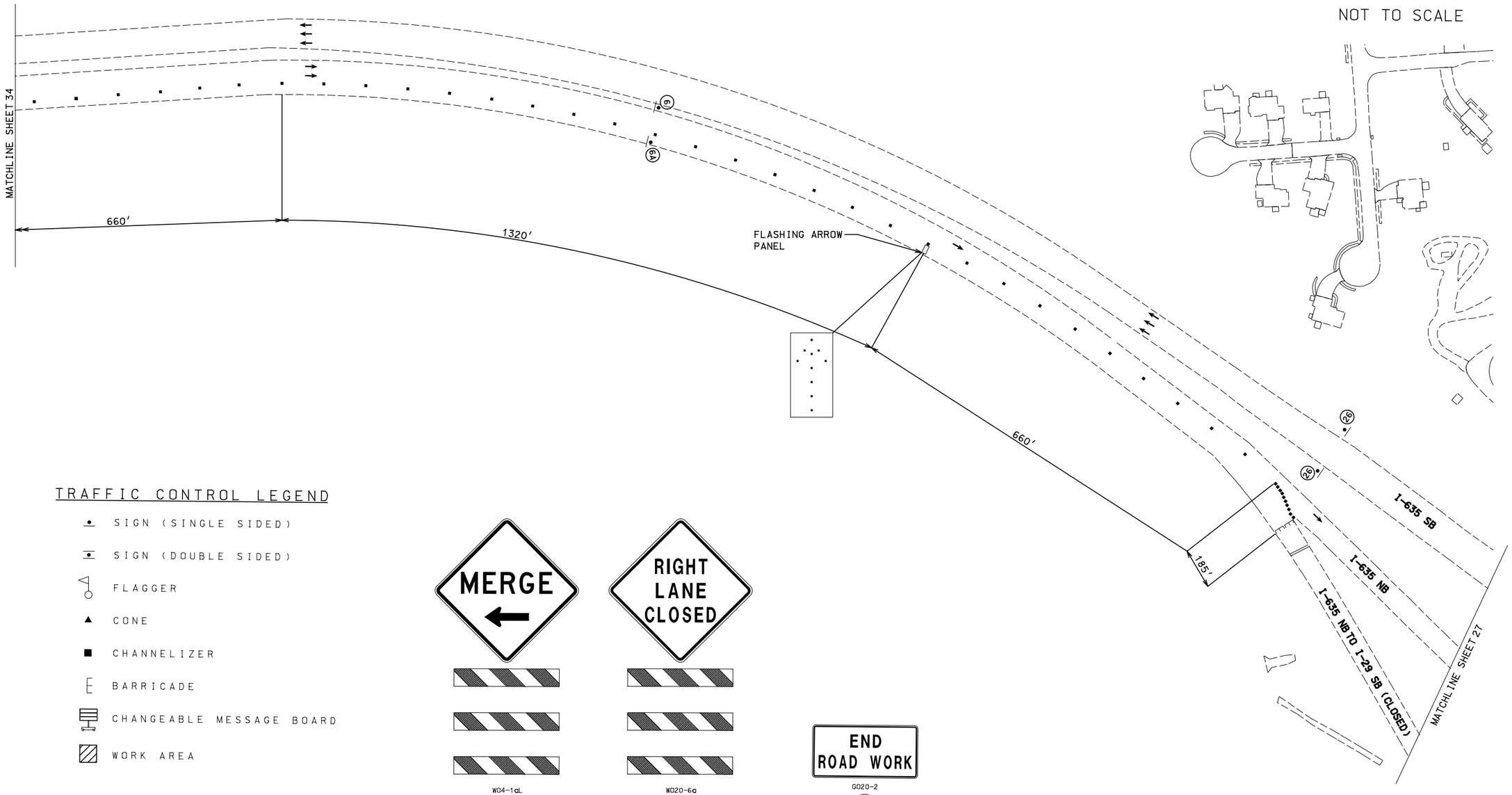
NOT TO SCALE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA

W04-1aL
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W020-6a
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G020-2
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I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 7 OF 8

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	33
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

NOTES:
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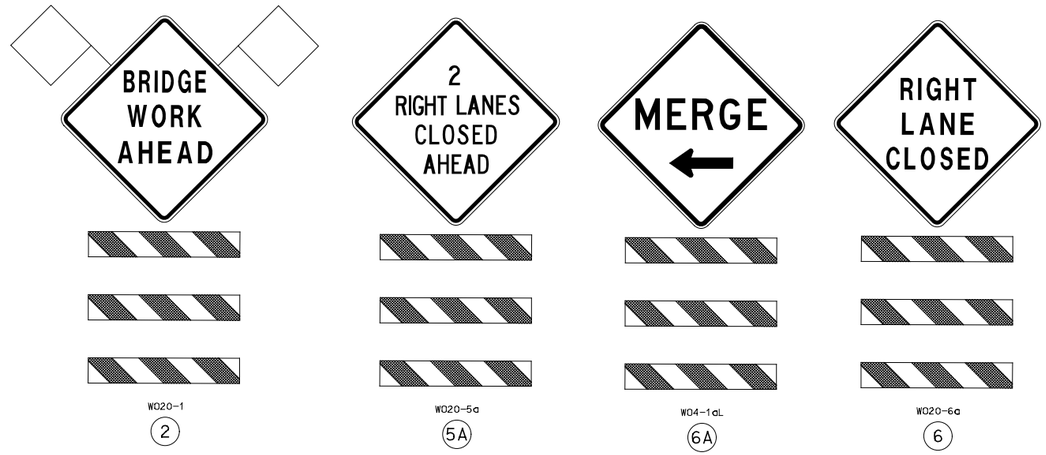

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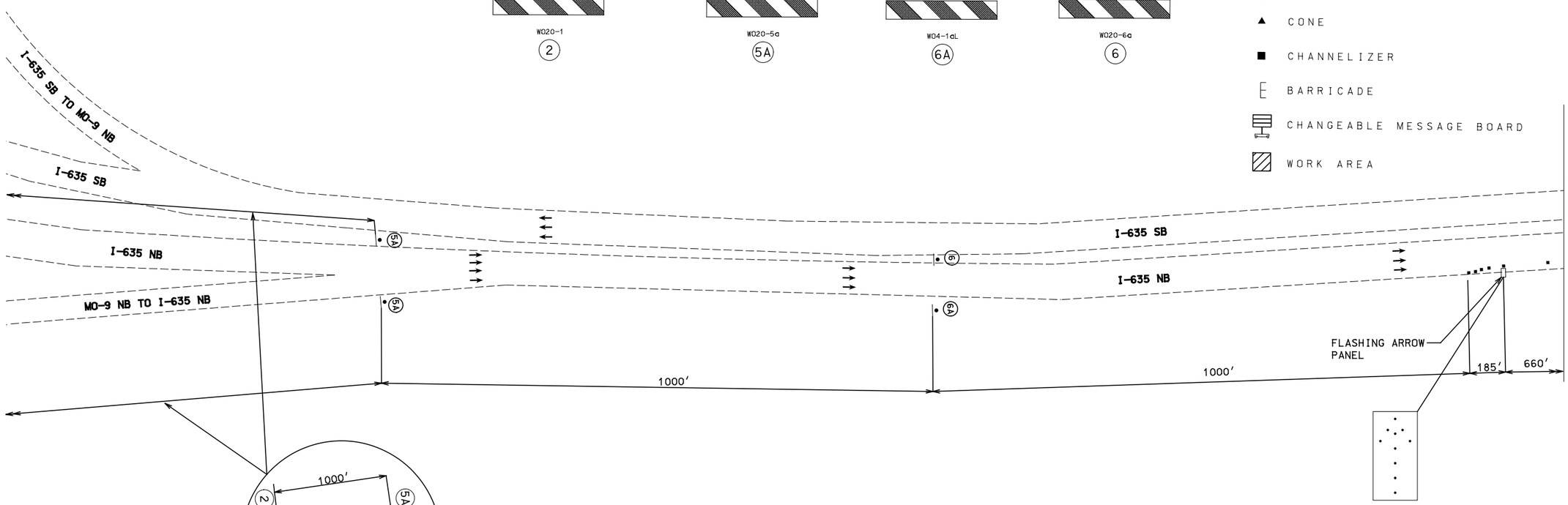
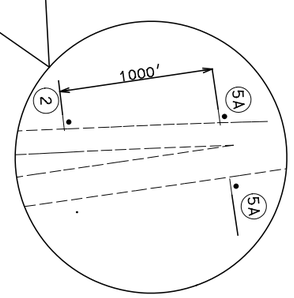
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA





ADVANCED SIGNING DETAIL

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 1
SHEET 8 OF 8

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

DATE PREPARED	
7/19/2020	
ROUTE I-29	STATE MO
DISTRICT KC	SHEET NO. 34
COUNTY PLATTE	
JOB NO. J4I3291	
CONTRACT ID. .	
PROJECT NO. .	
BRIDGE NO. .	

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

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No.: 000165
BMcD Project No. 109387

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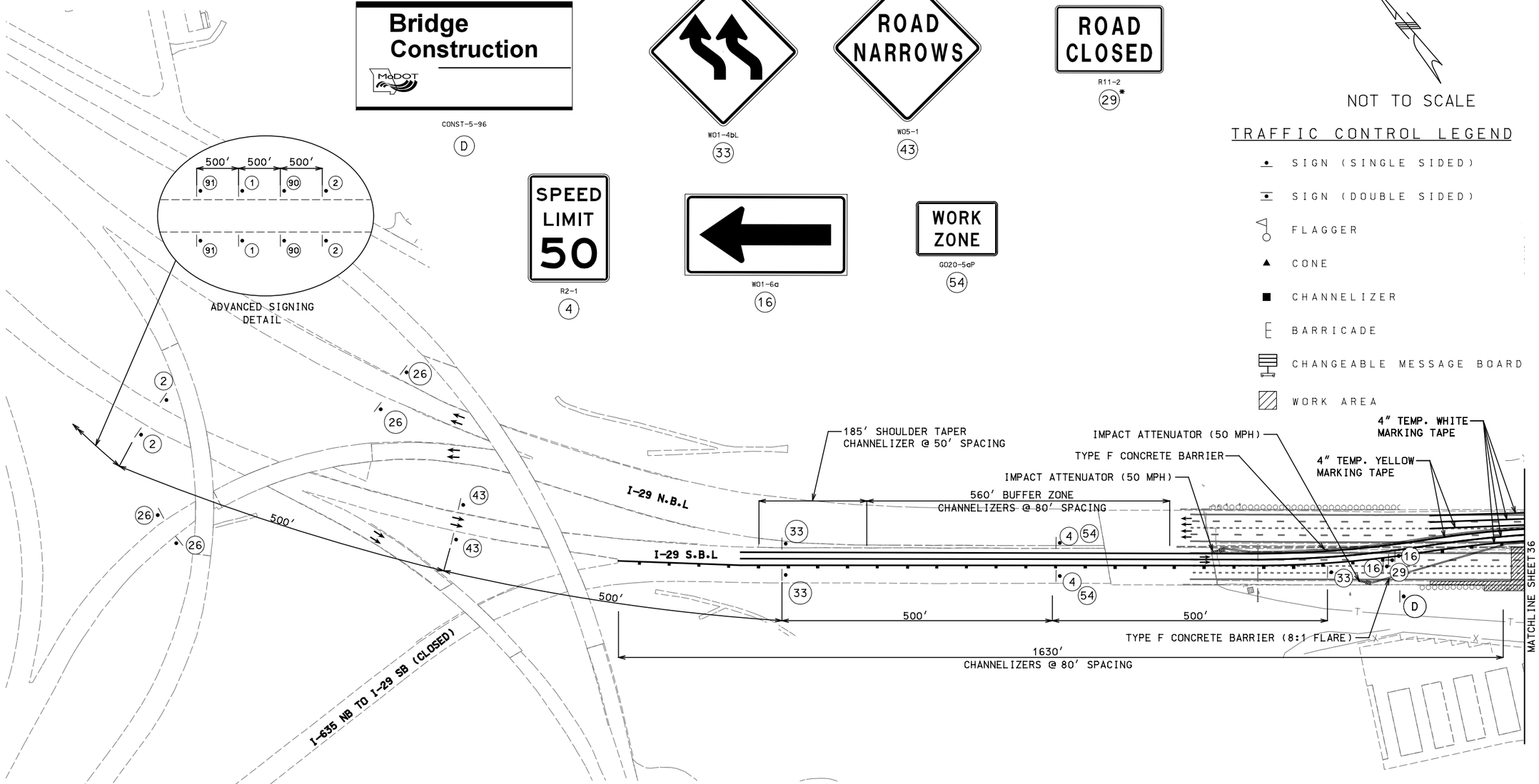

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I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 2
SHEET 1 OF 4

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	35
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

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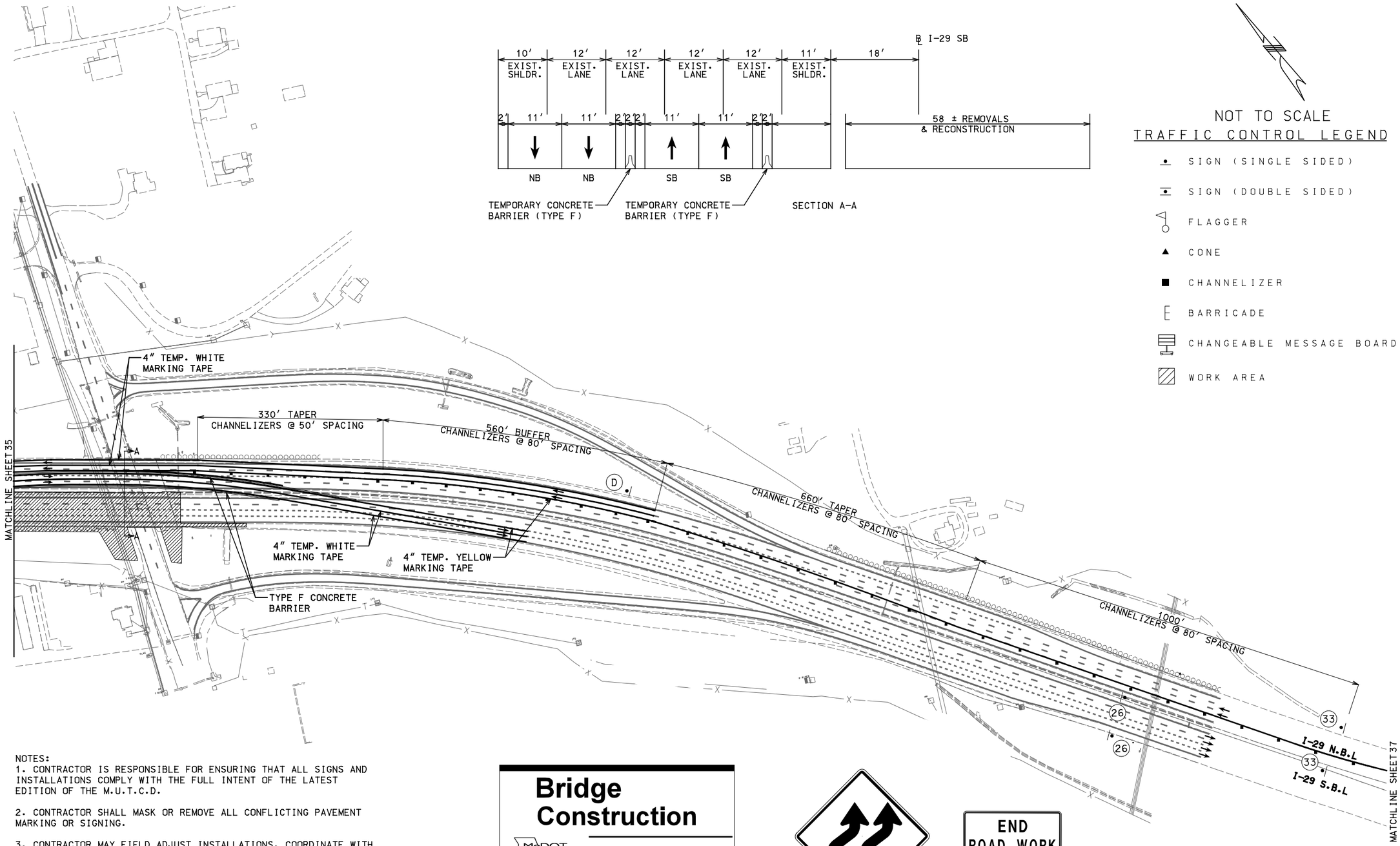

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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Bridge Construction

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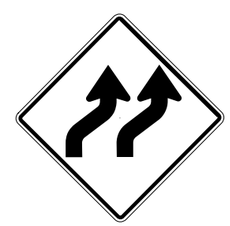

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END ROAD WORK

G020-2

26

I-29 OVER ROUTE AA TRAFFIC CONTROL SHEET PHASE 2 SHEET 2 OF 4

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

DATE PREPARED	
7/19/2020	
ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	36
COUNTY	
PLATTE	
JOB NO.	
J4I3297	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority No. : 000165

BMcD Project No. 109387

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

REV.

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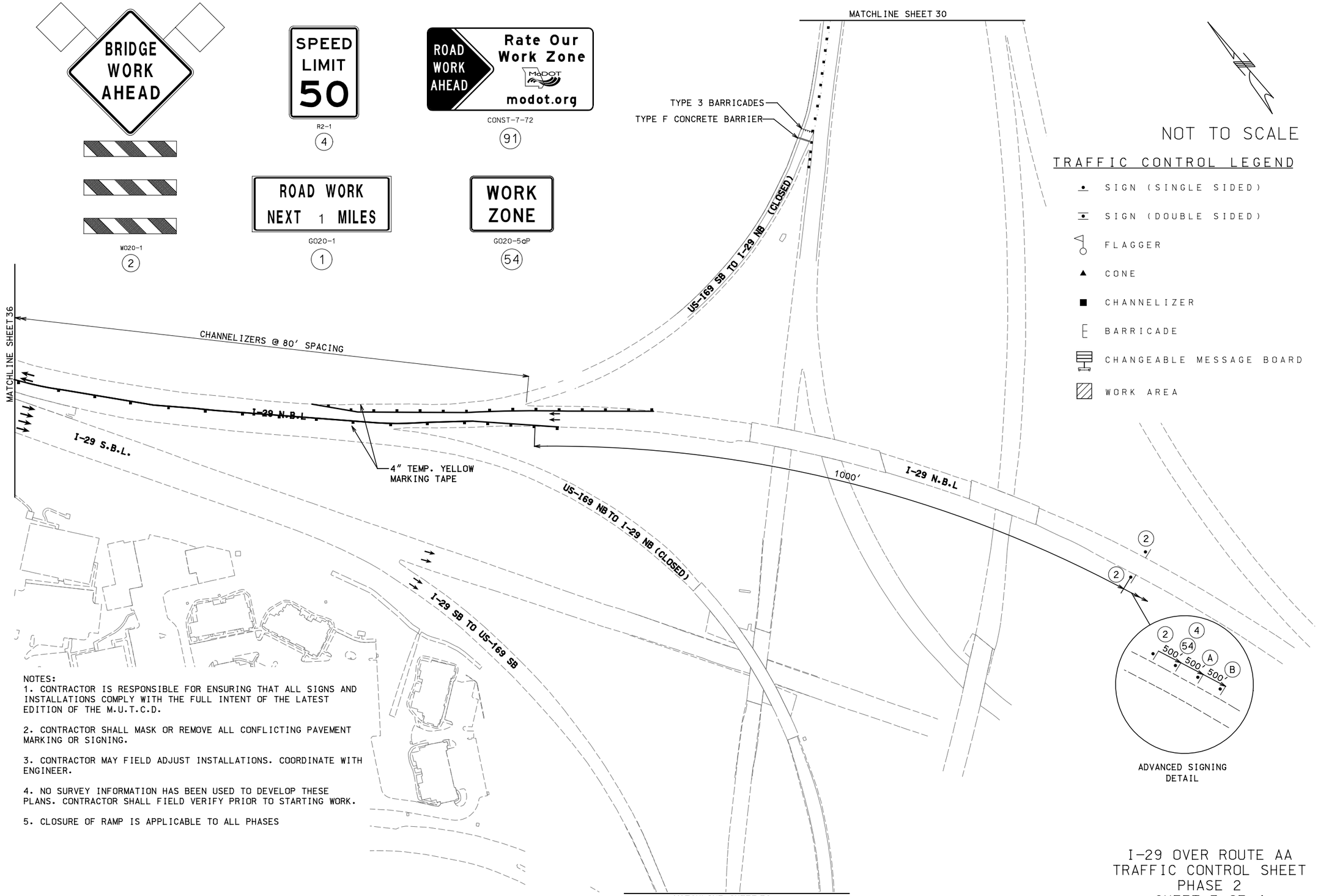

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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5. CLOSURE OF RAMP IS APPLICABLE TO ALL PHASES

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 2
SHEET 3 OF 4

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	37
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

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9400 Ward Parkway
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816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

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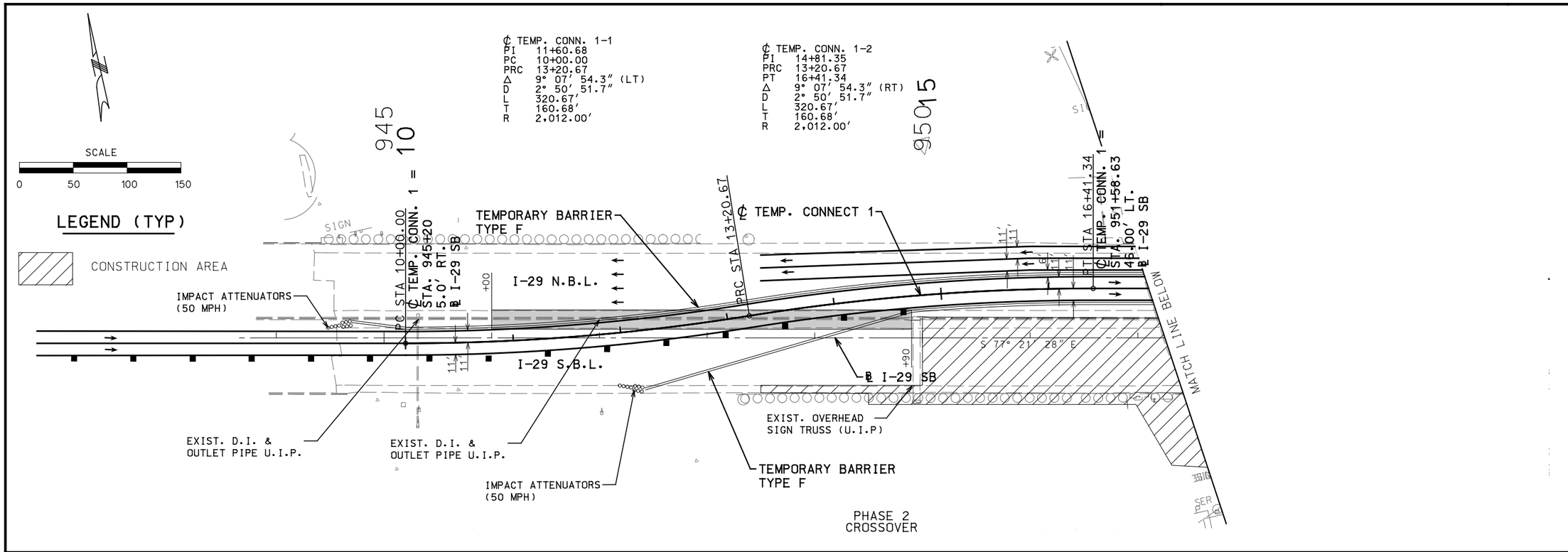

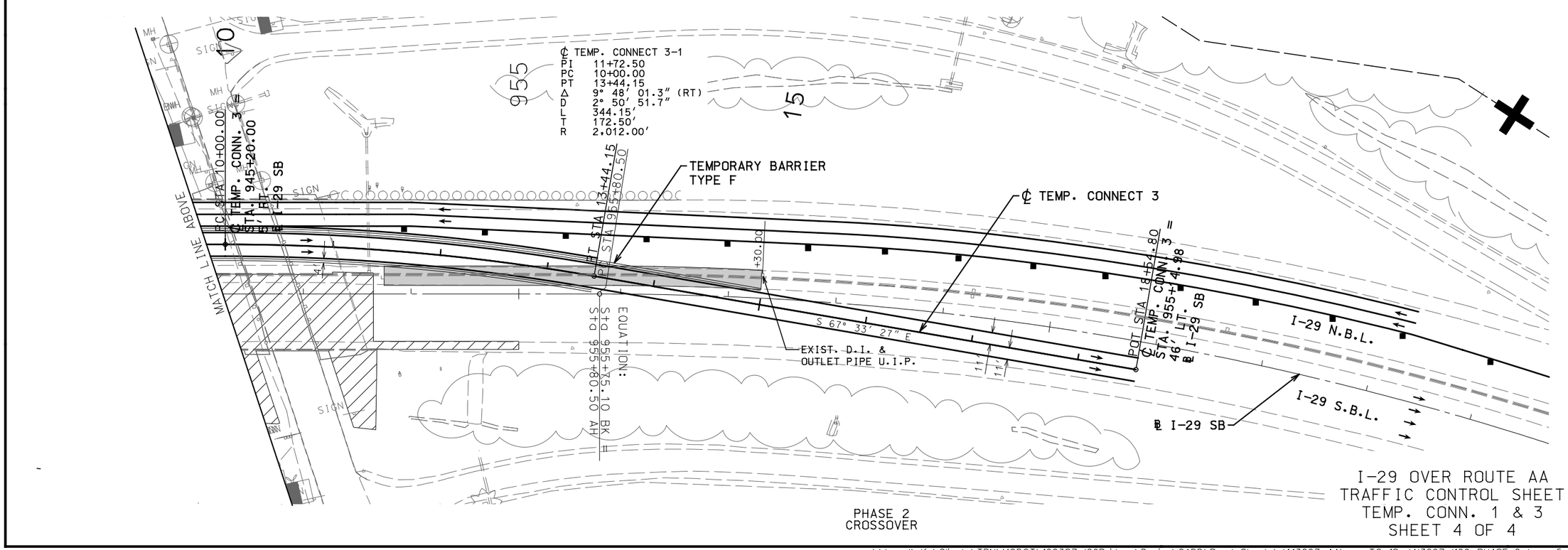

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
TEMP. CONN. 1 & 3
SHEET 4 OF 4

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	38
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

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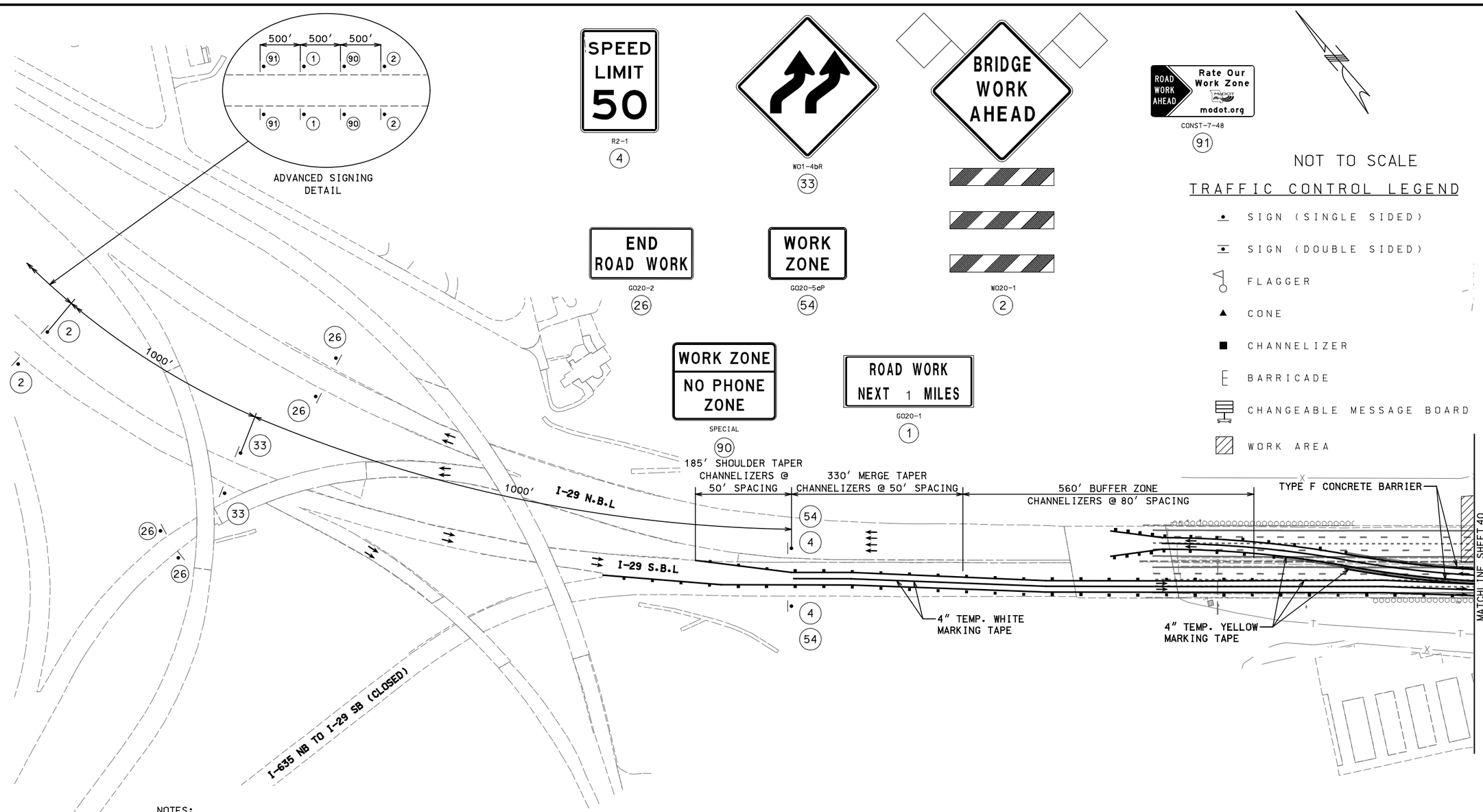

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I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 3
SHEET 1 OF 4

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	39
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No.: 000165
BMcD Project No. 109387

BURNS McDONNELL

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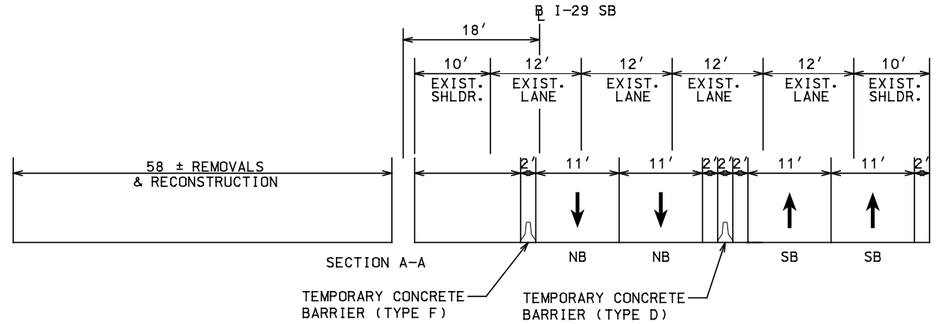
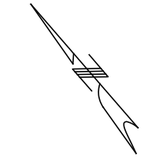
R11-2
29

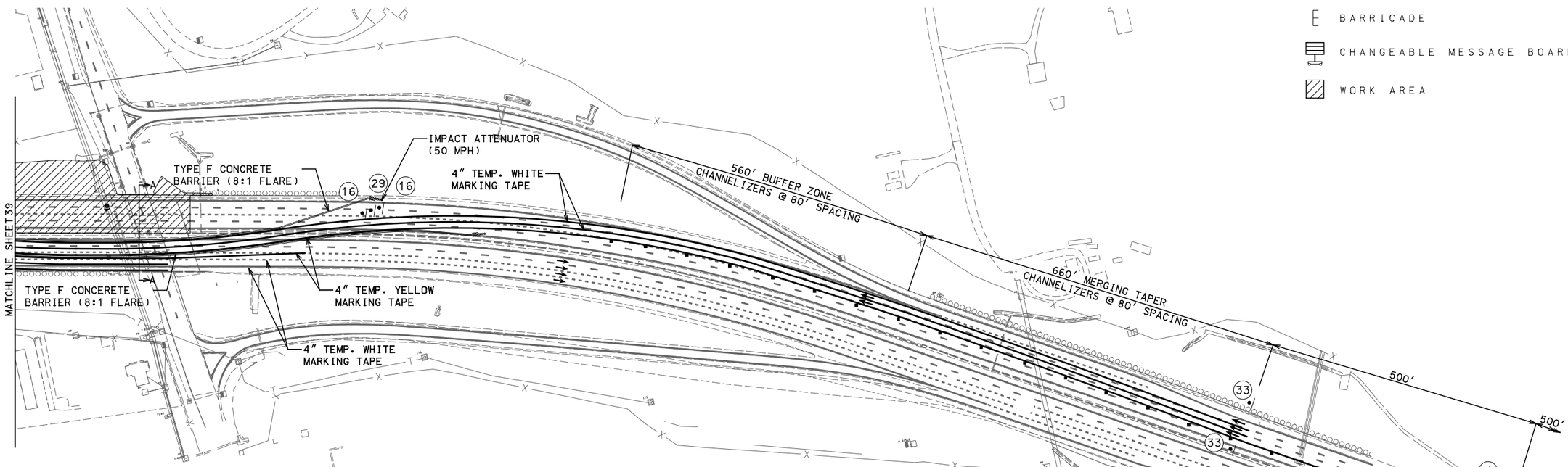




NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA



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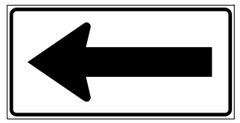

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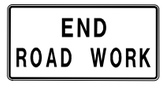

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I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 3
SHEET 2 OF 4

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	40
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

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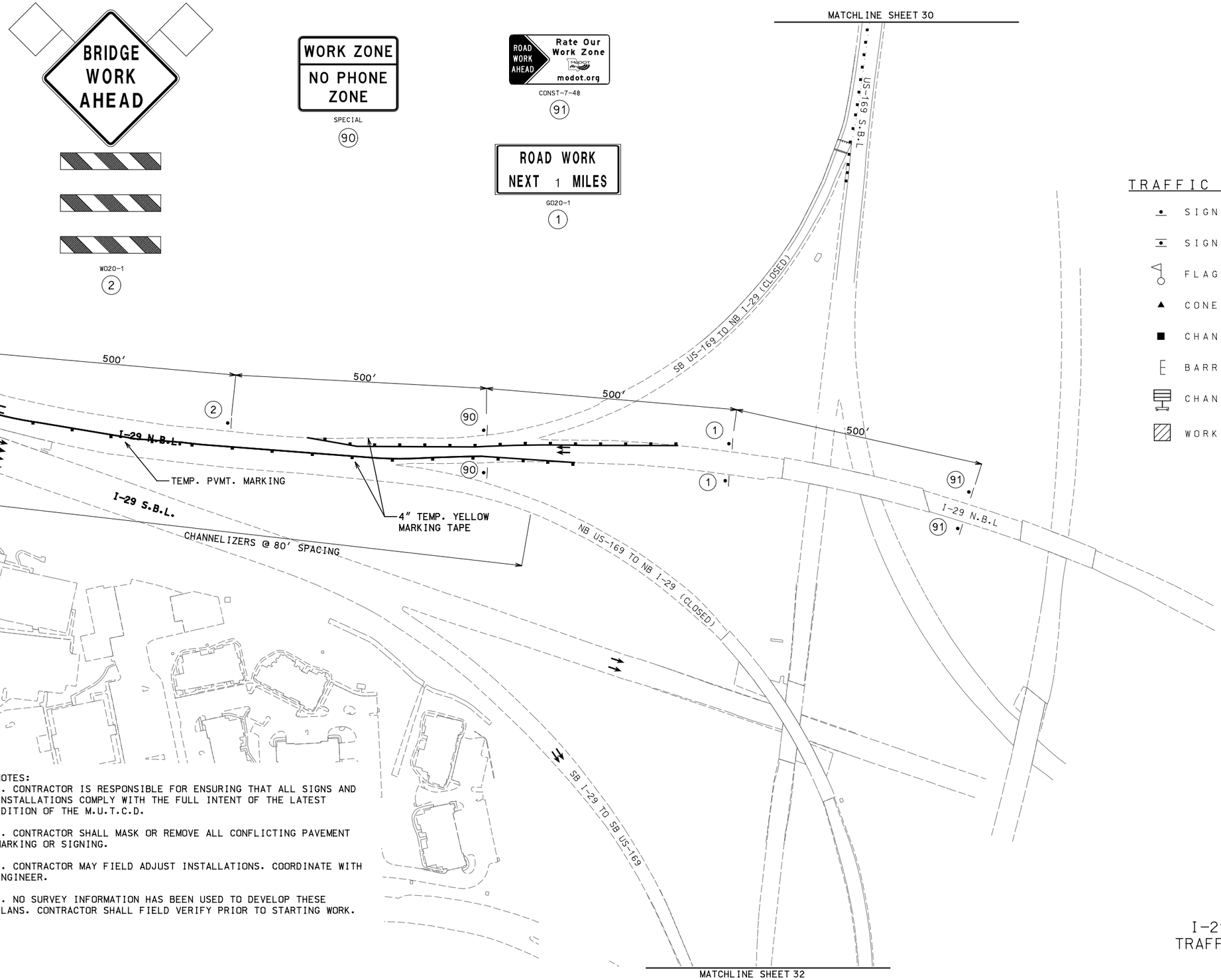

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I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 3
SHEET 3 OF 4

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	41
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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Certificate of Authority No. : 000165
BMcD Project No. 109387

REV.

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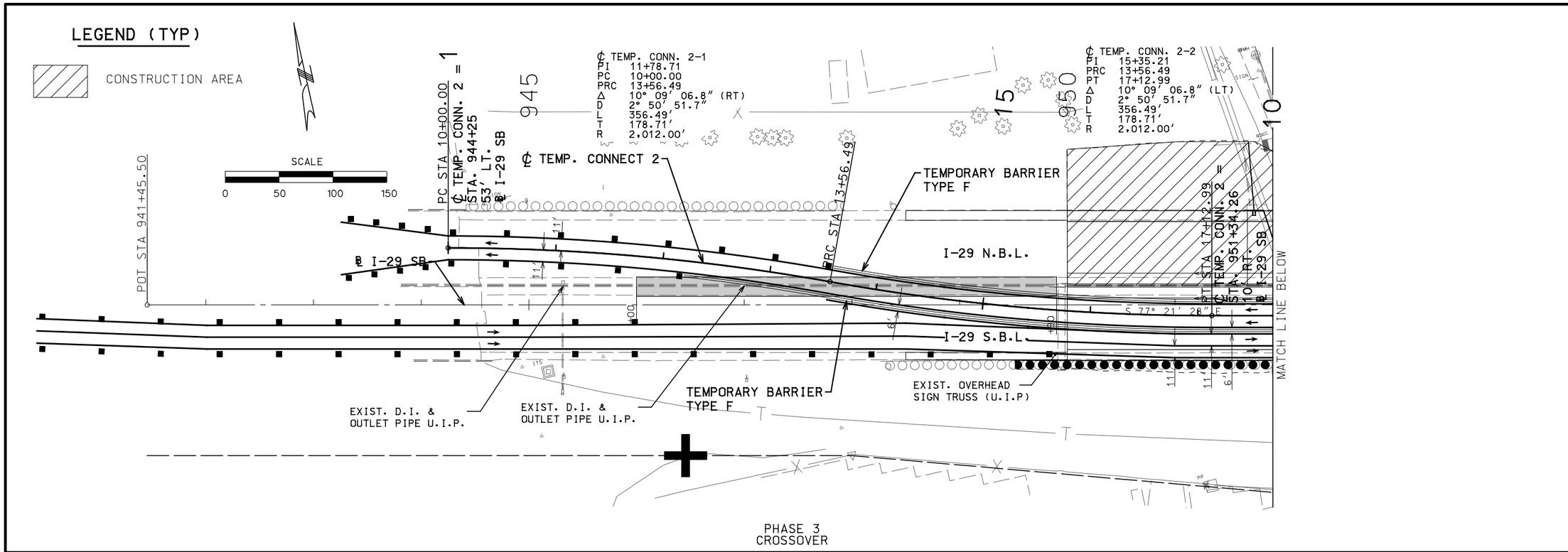
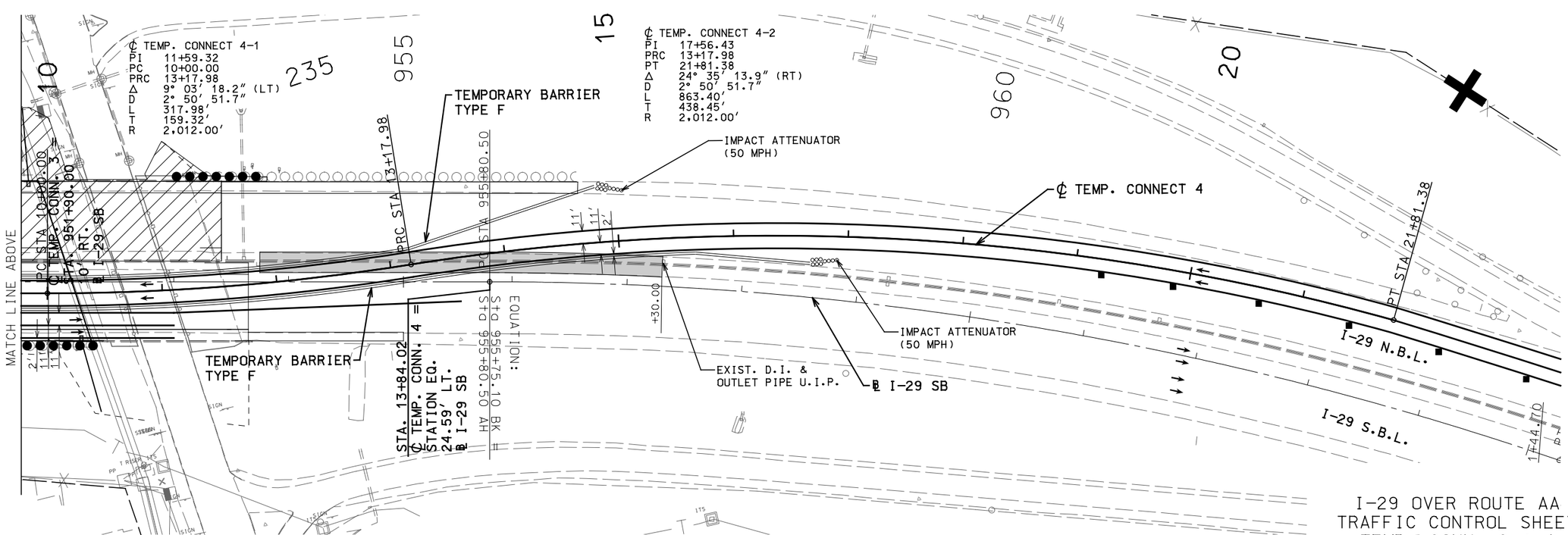


PHASE 3
CROSSOVER



PHASE 3
CROSSOVER

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
TEMP. CONN. 2 & 4
SHEET 4 OF 4

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

DATE	.
DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	42
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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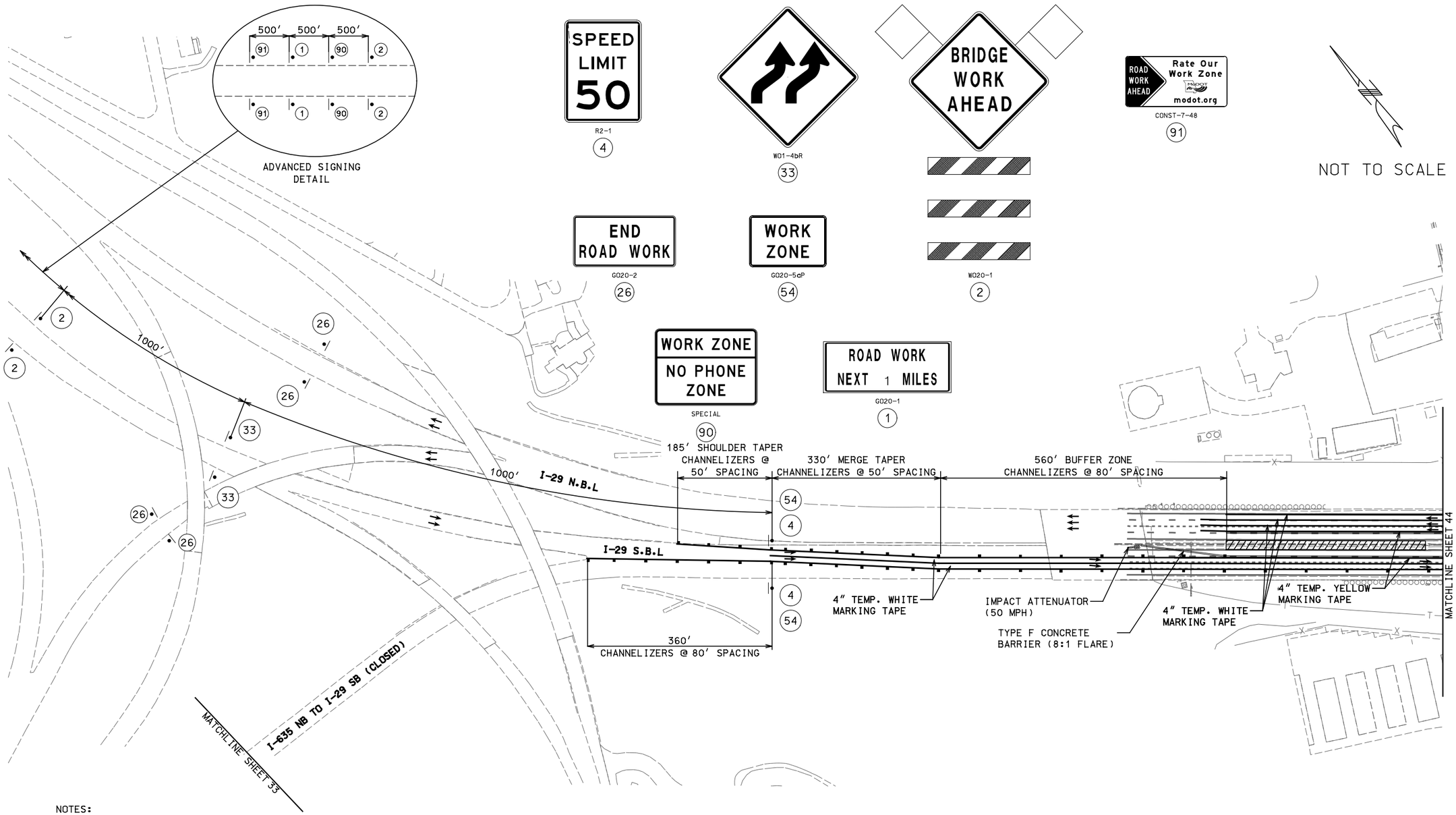
Certificate of Authority No. : 000165
BMcD Project No. 109387



NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.

2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKING OR SIGNING.

3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. COORDINATE WITH ENGINEER.

4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 4
SHEET 1 OF 3

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

DATE PREPARED	
7/19/2020	
ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	43
COUNTY	
PLATTE	
JOB NO.	
J4I3297	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

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

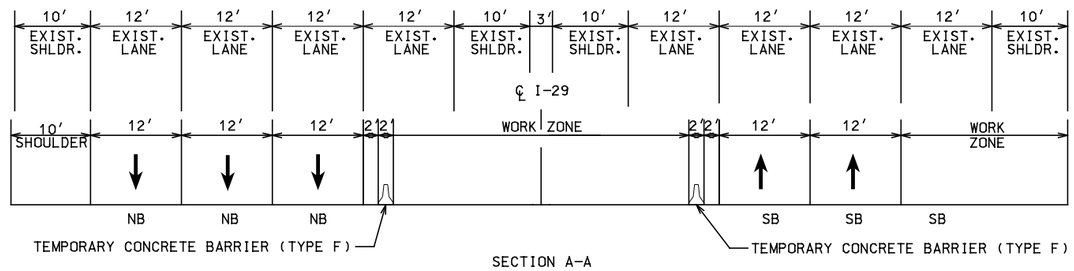
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No.: 000165
BMcD Project No. 109387

REV.

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_TC_23_J413297_1100_PHASE 4.dgn 5:41:16 PM 7/19/2020

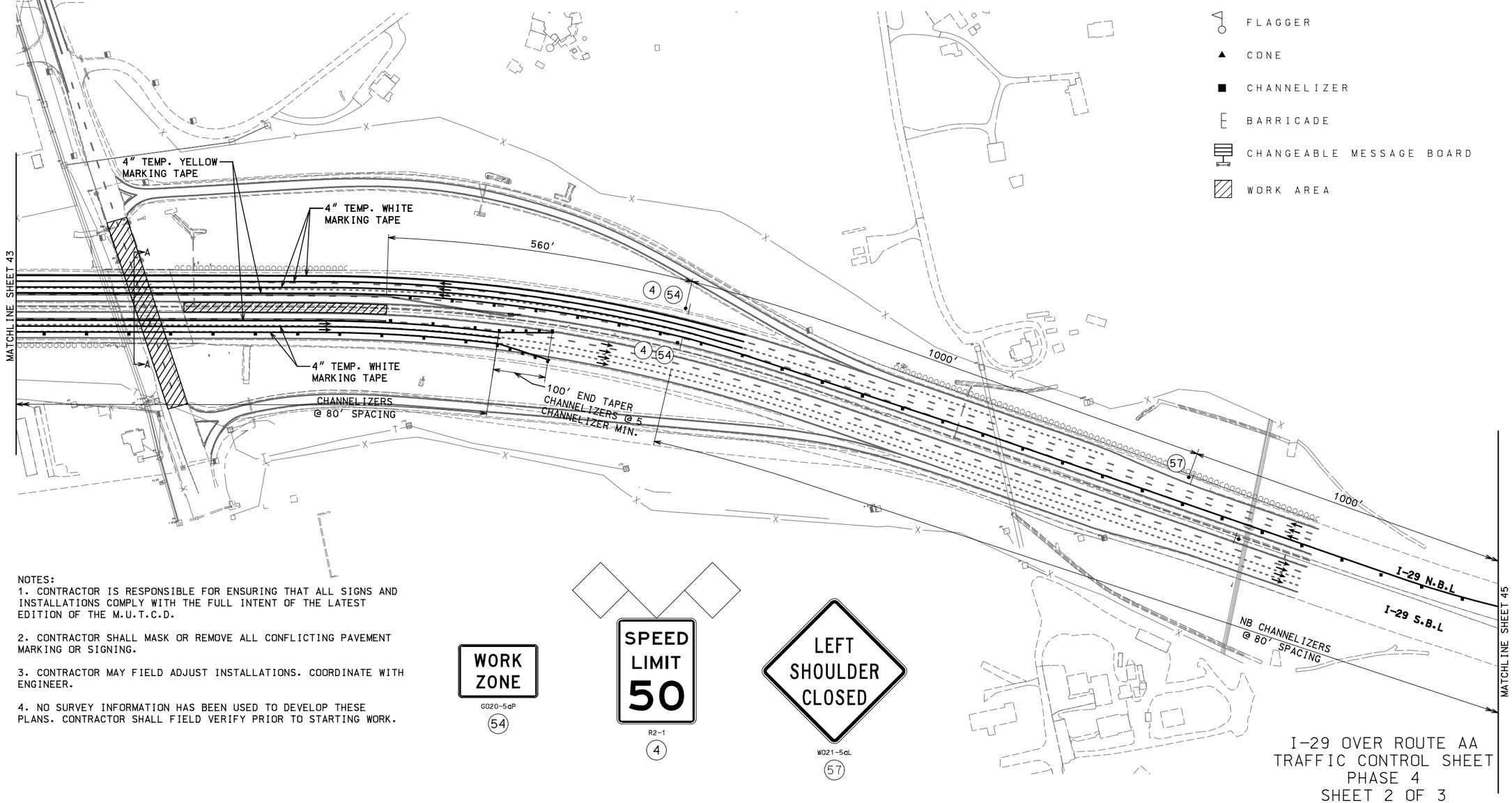


SECTION A-A

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA



NOTES:
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G020-5aP (54)

R2-1 (4)

W021-5aL (57)

I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 4
SHEET 2 OF 3

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

DATE PREPARED	
7/19/2020	
ROUTE I-29	STATE MO
DISTRICT KC	SHEET NO. 44
COUNTY PLATTE	
JOB NO. J4I3297	
CONTRACT ID. .	
PROJECT NO. .	
BRIDGE NO. .	

DESCRIPTION	DATE
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.	.
.	.
.	.

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

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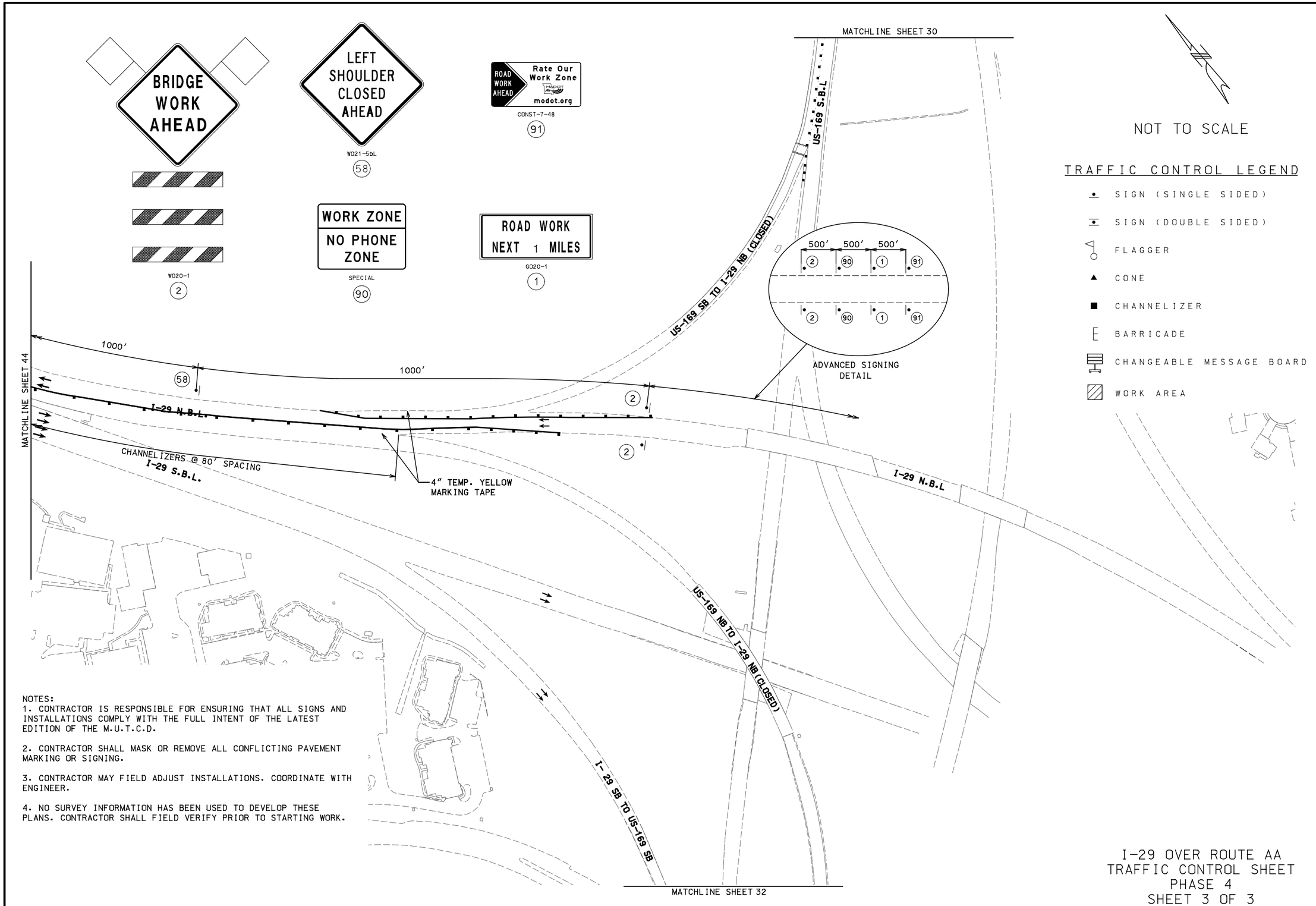

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.

2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKING OR SIGNING.

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I-29 OVER ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 4
SHEET 3 OF 3

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	45
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

REV.

\\bmcd\dfs\Clients\TRN\MODOT\109387_I29Bridges\Design\CADD\Road_Sheets\J413297_AA\xxx_TC_25_J413297_I100_PHASE 4.dgn 5:41:21 PM 7/19/2020

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
POSTED SPEED PRIOR TO CONSTRUCTION, MPH (P)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			SHOULDER TAPER (T1)	MAX. CHANNELIZER SPACING THROUGH TAPER (X)	MAX. CHANNELIZER SPACING THROUGH WORK AREA (Y)
	10 FT	11 FT	12 FT			
0 TO 35	205 FT	225 FT	245 FT	70 FT	35′	40′
40 TO 45	450 FT	495 FT	540 FT	150 FT	40′	80′
50 TO 55	550 FT	605 FT	660 FT	185 FT	50′	80′
60 TO 70	700 FT	770 FT	840 FT	235 FT	60′	120′

$L = W \times P$ 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

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
POSTED SPEED PRIOR TO CONSTRUCTION, MPH (P)	UNDIVIDED HIGHWAY LENGTH (S), (FT.)	DIVIDED HIGHWAY LENGTH (S), (FT.)
0 TO 35	200′ (3)	200′ (3)
40 TO 45	350′	500′
50 TO 55	500′	1000′
60 TO 70	1000′	SA - 1000 FT, SB - 1500 FT, SC - 2640 FT

DIMENSIONS IN FEET
(1) SPACING BETWEEN SIGNS, BEGINNING OF TAPER OR SIGNED CONDITION.
(2) SPACING MAY BE ADJUSTED TO MEET FIELD CONDITIONS.
(3) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FT.

BUFFER SPACE	
POSTED SPEED PRIOR TO CONSTRUCTION, MPH (P)	RECOMMENDED LENGTH OF LONGITUDINAL BUFFER
0 TO 35	280 FT
40 TO 45	400 FT
50 TO 55	560 FT
60 TO 70	840 FT

TRAFFIC CONTROL GENERAL NOTES:

1. TEMPORARY TRAFFIC CONTROL SIGN AND DEVICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED. NO DIRECT PAY.
3. NO DIRECT PAY FOR RELOCATION OF SIGNS AND DEVICES FOR TEMPORARY TRAFFIC CONTROL.
4. ALL TEMPORARY TRAFFIC CONTROL ITEMS NOT INCLUDED IN THE PAY ITEMS SHALL BE CONSIDERED INCIDENTAL.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES.
6. DURING FLAGGING OPERATIONS, FLAGGERS SHALL BE USED WHEN WORKERS ARE PRESENT.
7. FOR PAVEMENT DROP OFF, REFER TO STANDARD PLAN 619.10 FOR NECESSARY EDGE TREATMENT.
8. CHANGEABLE MESSAGE BOARDS SHALL BE CONTRACTOR FURNISHED/CONTRACTOR RETAINED.

PHASE	TYPE	TYPICAL APPLICATIONS	DESCRIPTION
PHASE 5A	ISLAND REMOVAL	TA-8	REMOVAL OF ISLAND ON THE I-29 EXIT RAMP NORTH OF THE BRIDGE AND I-29 ENTRANCE RAMP SOUTH OF THE BRIDGE. USE TA-8 FOR SHORT TERM ROAD CLOSURE AS NEEDED.
PHASE 5B1	ROUTE AA RECONSTRUCTION		RECONSTRUCTION OF NB ROUTE AA AND RECONSTRUCTION OF RAMP APPROACHES HALF AT A TIME.
PHASE 5B2	ROUTE AA RECONSTRUCTION		RECONSTRUCTION OF NB ROUTE AA AND RECONSTRUCT THE REMAINING RAMP APPROACHES.
PHASE 5C	ROUTE AA RECONSTRUCTION		RECONSTRUCTION OF SB ROUTE AA.
PHASE 5D	ROUTE AA RECONSTRUCTION		RECONSTRUCTION OF LEFT TURN LANE ON ROUTE AA.
PHASE 5E	ISLAND RECONSTRUCTION		CONSTRUCTION OF ISLAND ON THE I-29 EXIT RAMP NORTH OF THE BRIDGE AND I-29 ENTRANCE RAMP SOUTH OF THE BRIDGE. USE TA-8 FOR SHORT TERM ROAD CLOSURE AS NEEDED.

ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 5
SHEET 1 OF 7

DATE PREPARED 6/26/2020
ROUTE I-29 | STATE MO
DISTRICT KC | SHEET NO. 46
COUNTY PLATTE
JOB NO. J4I3297
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)

1411 East 104th St.
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300
TREKK DESIGN GROUP, LLC

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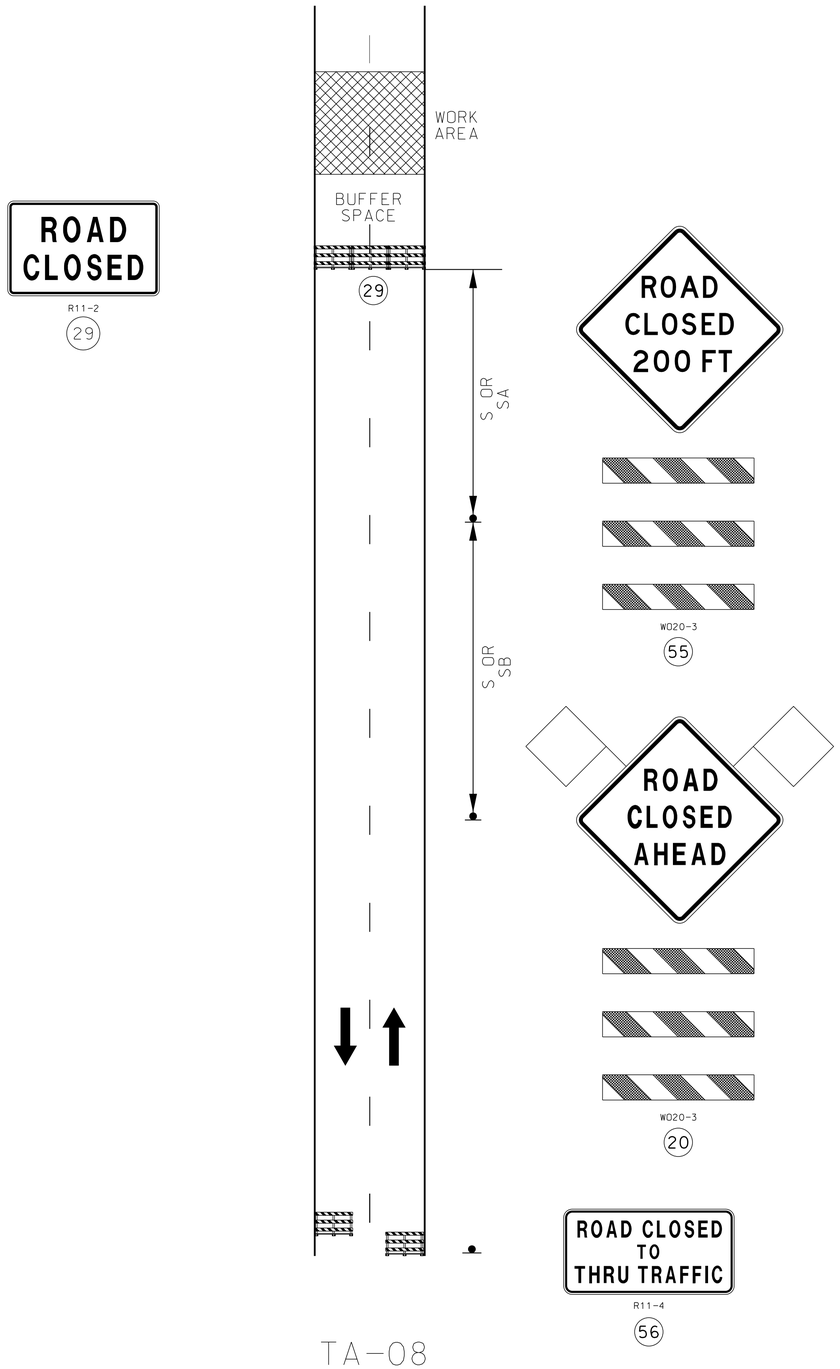

TA-08

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.

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

"ROAD CLOSED" SIGN MAY BE PLACED 7-10 FEET BEHIND THE BARRICADES AND AT A SIGN HEIGHT APPROPRIATE TO THE TYPE OF ROADWAY. ONE BARRICADE SHOULD BE REQUIRED TO COMPLETELY CLOSE EACH 8-FEET OF PAVEMENT. PAVED SHOULDERS SHALL BE INCLUDED IN THE AREA TO BE CLOSED.

IF USED, THE "ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY" OR "ROAD CLOSED TO THRU TRAFFIC" SIGN SHOULD BE LOCATED AT THE FIRST STATE ROUTE OR, UPON THE DISCRETION OF THE ENGINEER, ANY OTHER INTERSECTION IN ADVANCE OF THE CLOSURE. ADDITIONAL BARRICADES MAY BE USED AND OFFSETTED TO FACILITATE ACCESS FOR WORK VEHICLES, LOCAL TRAFFIC, ETC.

BARRICADE

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

ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 5
SHEET 2 OF 7

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	47
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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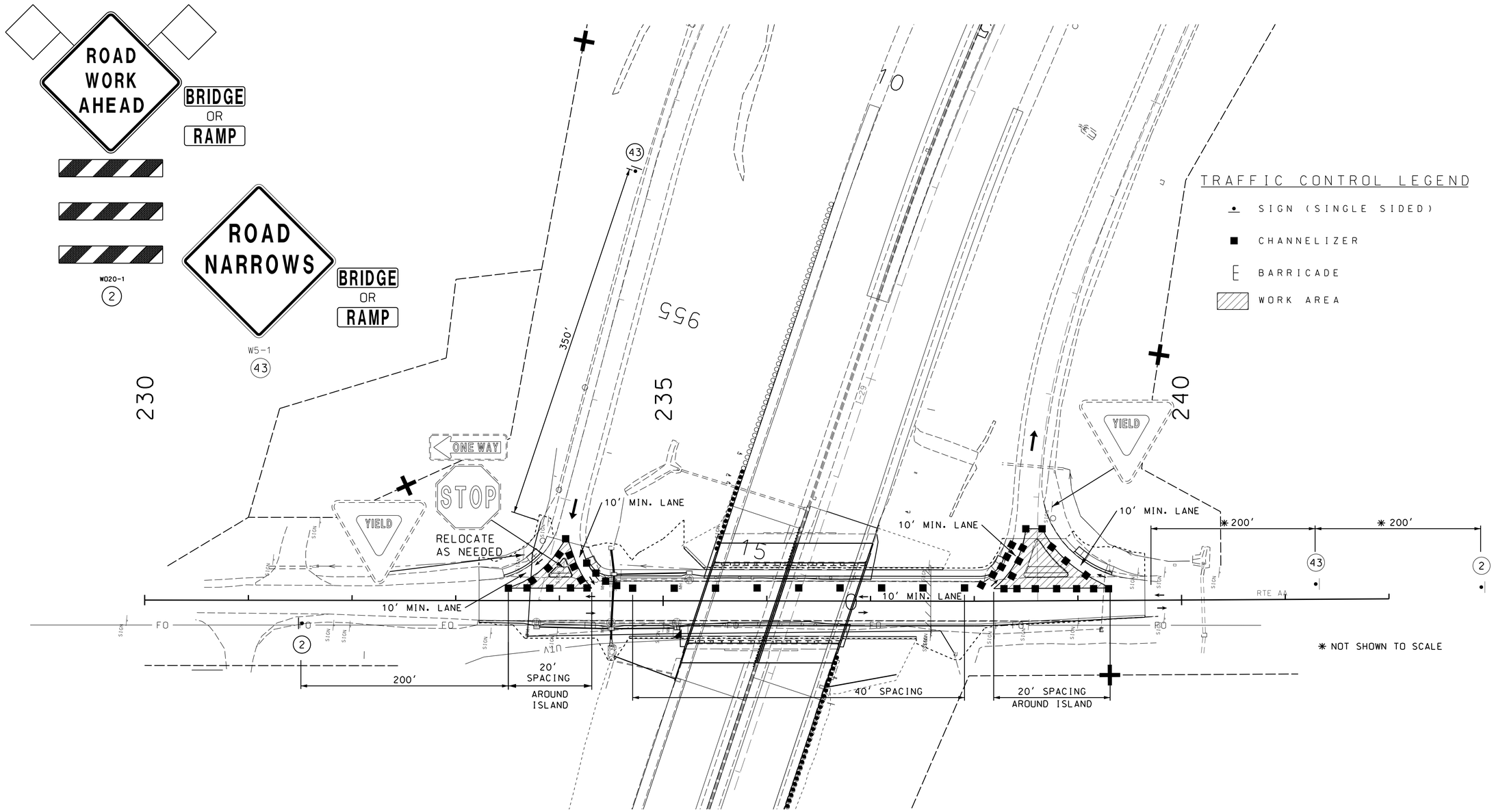
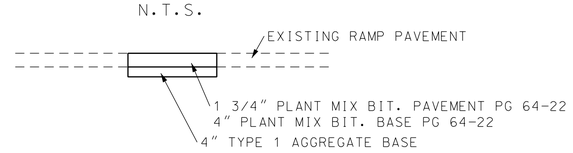


TEMPORARY PAVEMENT FOR ISLANDS
N.T.S.



NOTE:
1. ISLANDS SHALL BE REMOVED DURING PHASE 1 AND SHALL BE RECONSTRUCTED DURING PHASE 5.
2. USE TA-8 FOR GENERAL SHORT TERM ROAD CLOSURE IF NEEDED.
3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. COORDINATE WITH ENGINEER.

PHASE 5A & 5F - RTE AA
ISLAND REMOVAL & RECONSTRUCTION

SCALE
0 50 100 150

ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 5A & 5F
SHEET 3 OF 7

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	48
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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TREKK DESIGN GROUP, LLC

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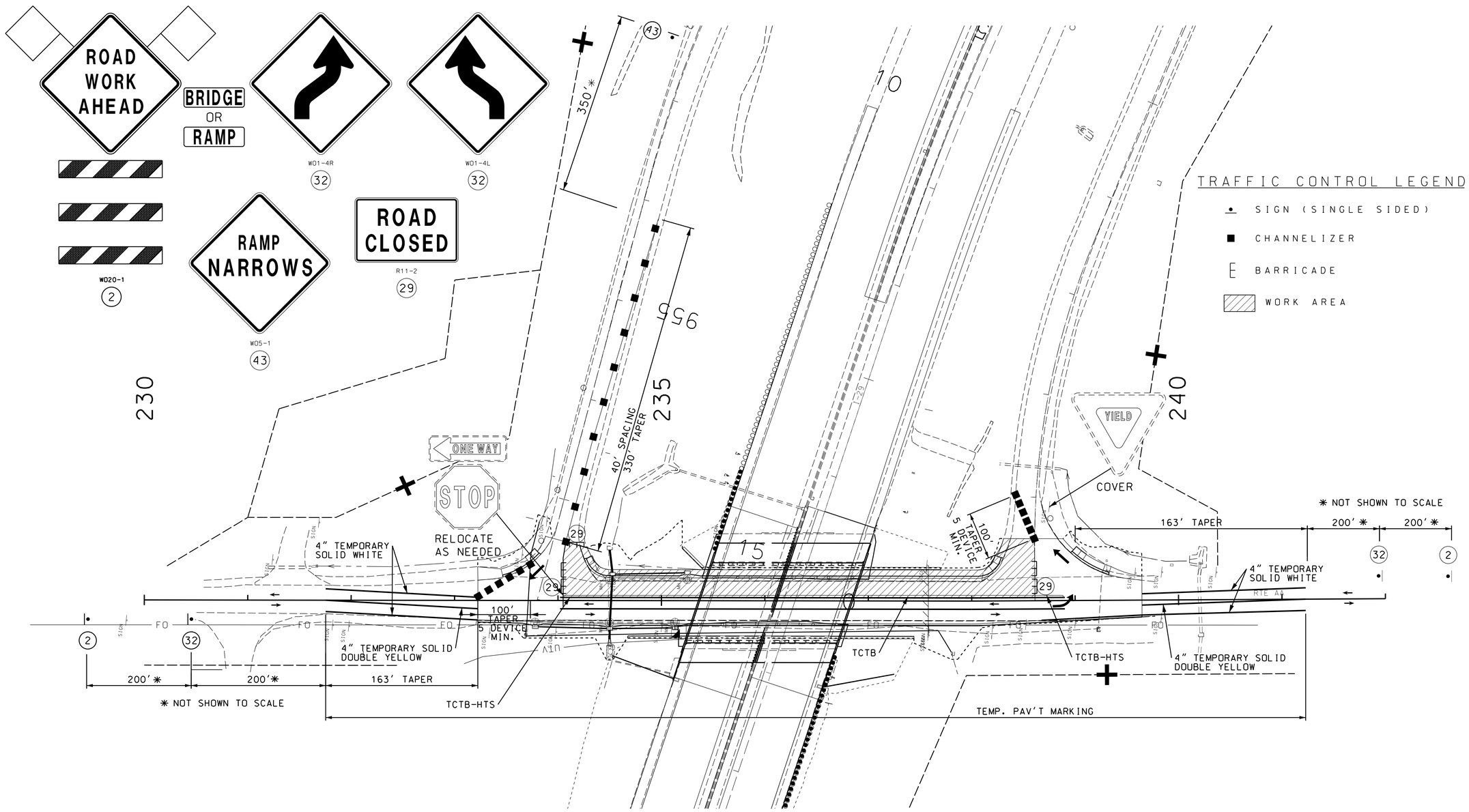
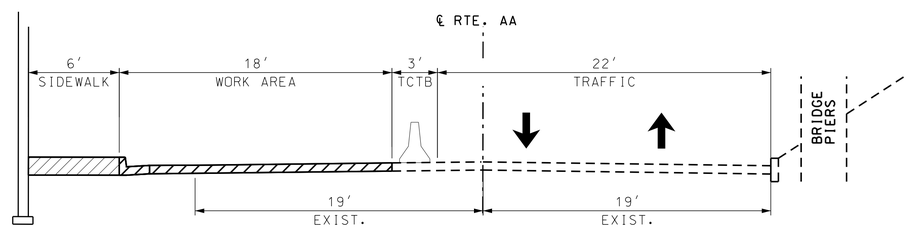
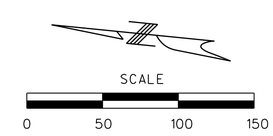




PHASE 5B - RTE. AA



ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 5B
SHEET 4 OF 7

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	49
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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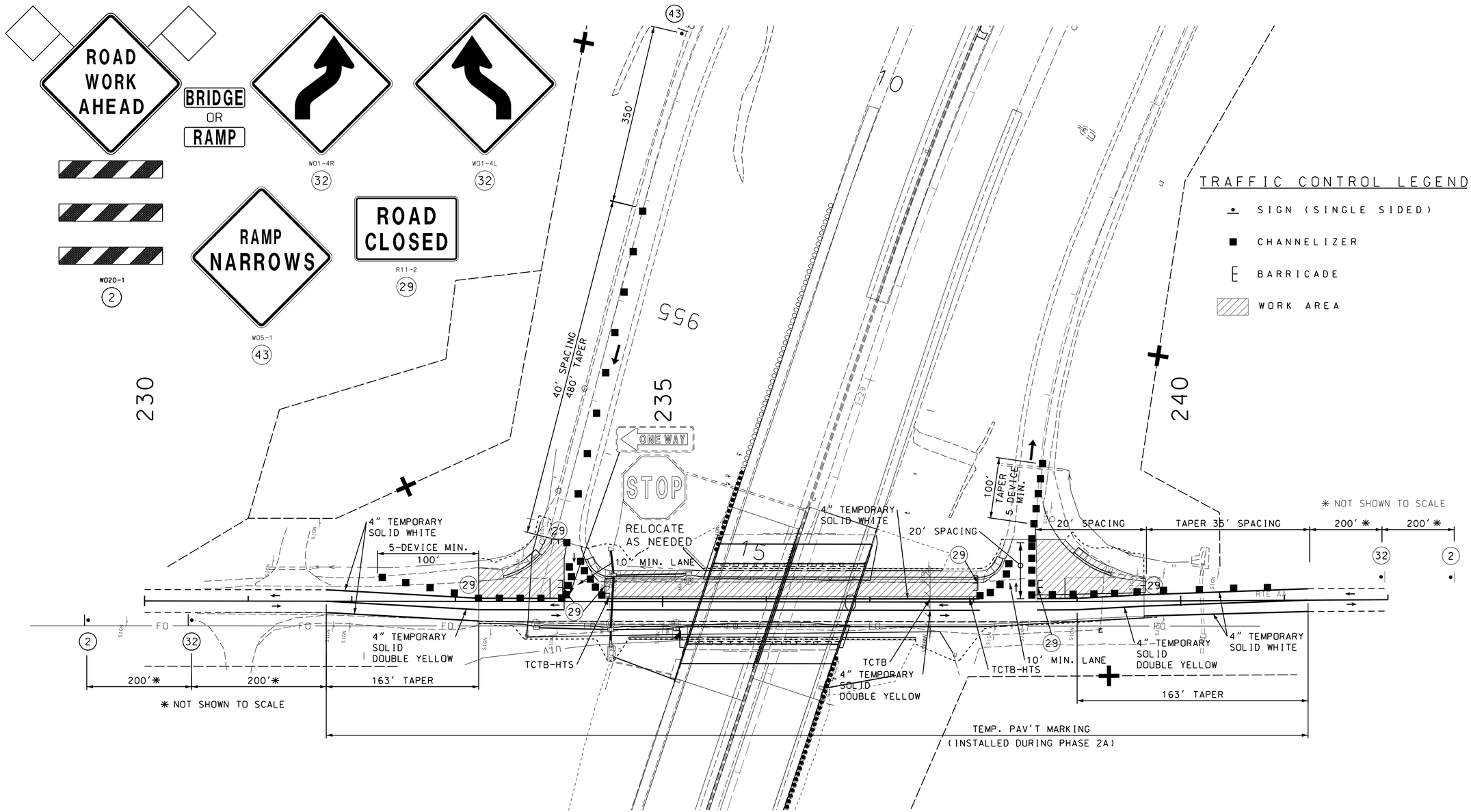

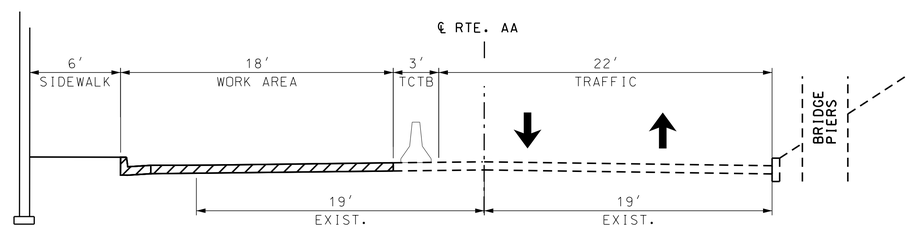

PHASE 5C - RTE. AA

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- BARRICADE
- WORK AREA

SCALE

0 50 100 150

ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 5C
SHEET 5 OF 7

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	50
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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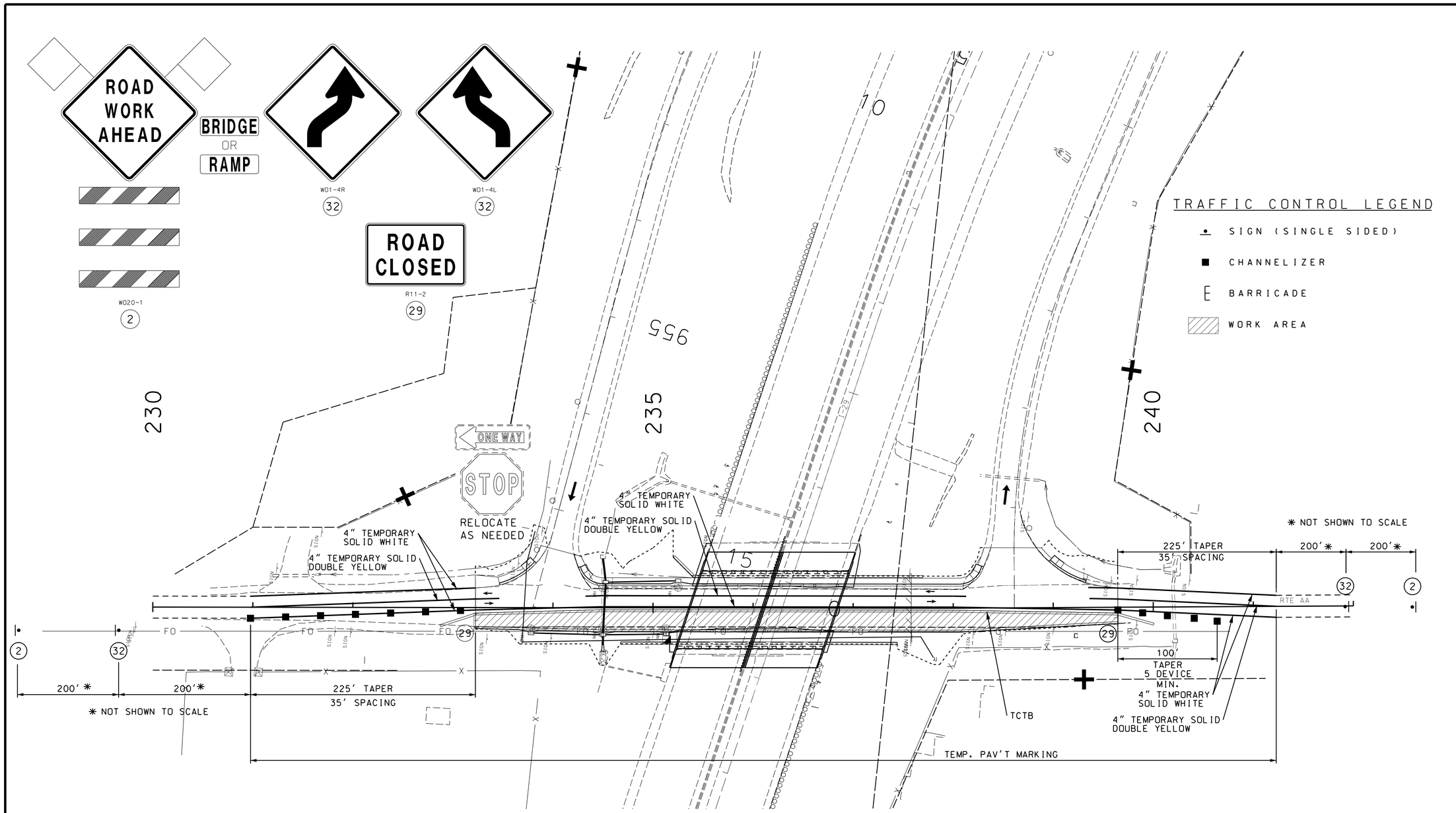

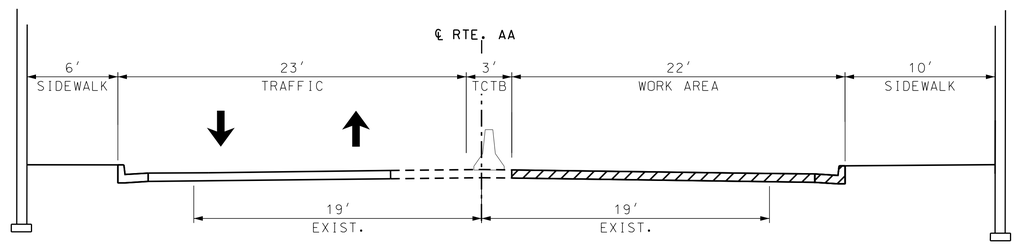

PHASE 5D - RTE. AA

SCALE
0 50 100 150

ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 5D
SHEET 6 OF 7

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	51
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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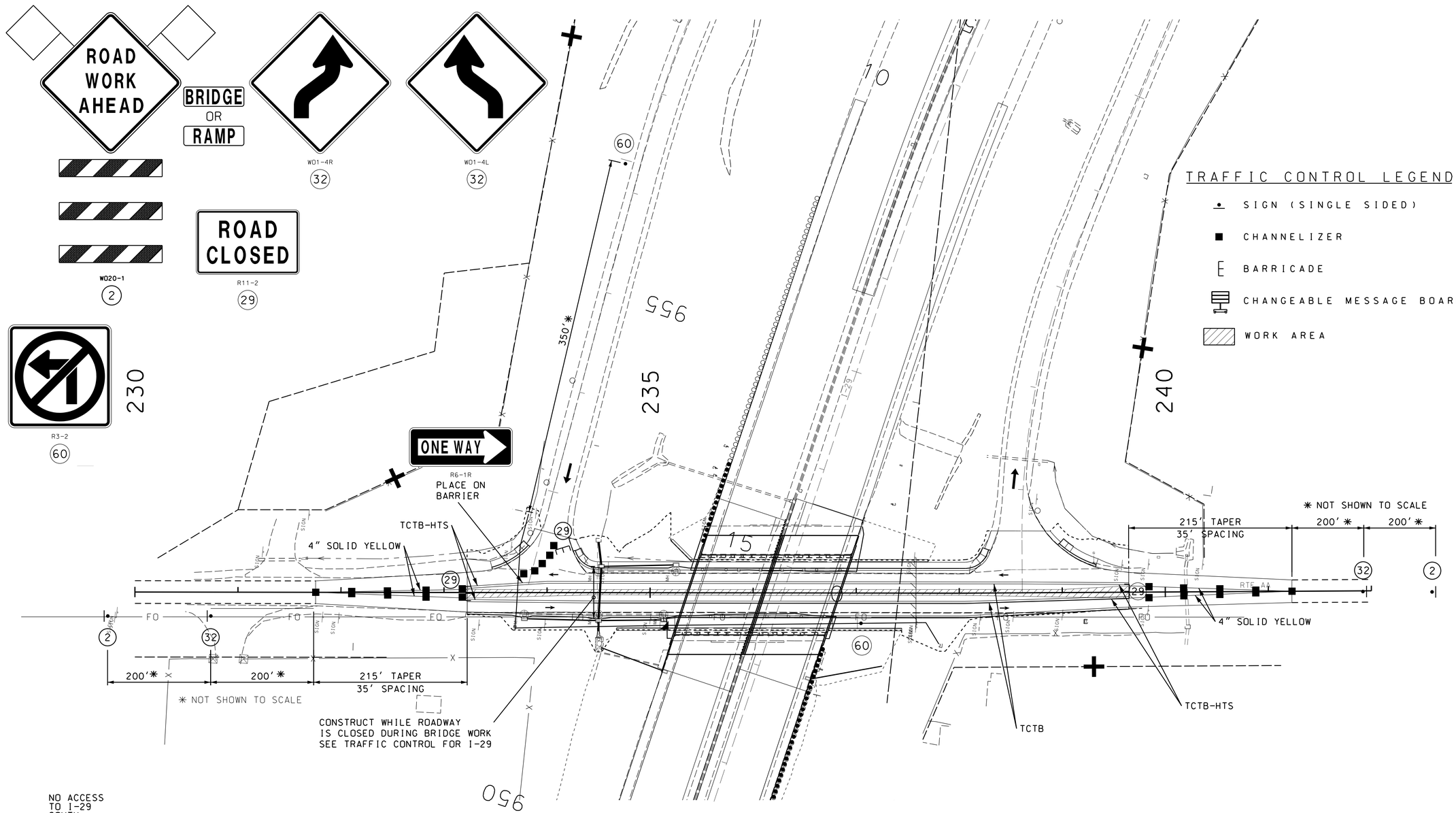
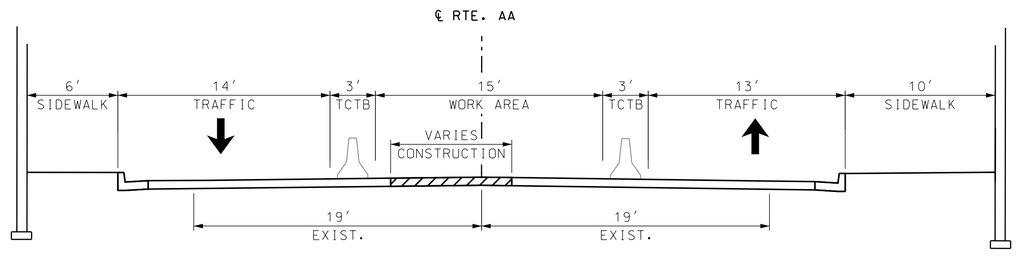


NO ACCESS TO I-29 SOUTH

PLACE AT THE INTERSECTION OF ROUTE AA & NW ENGLEWOOD



PHASE 5E - RTE. AA

SCALE

0 50 100 150

ROUTE AA
TRAFFIC CONTROL SHEET
PHASE 5E
SHEET 7 OF 7

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	52
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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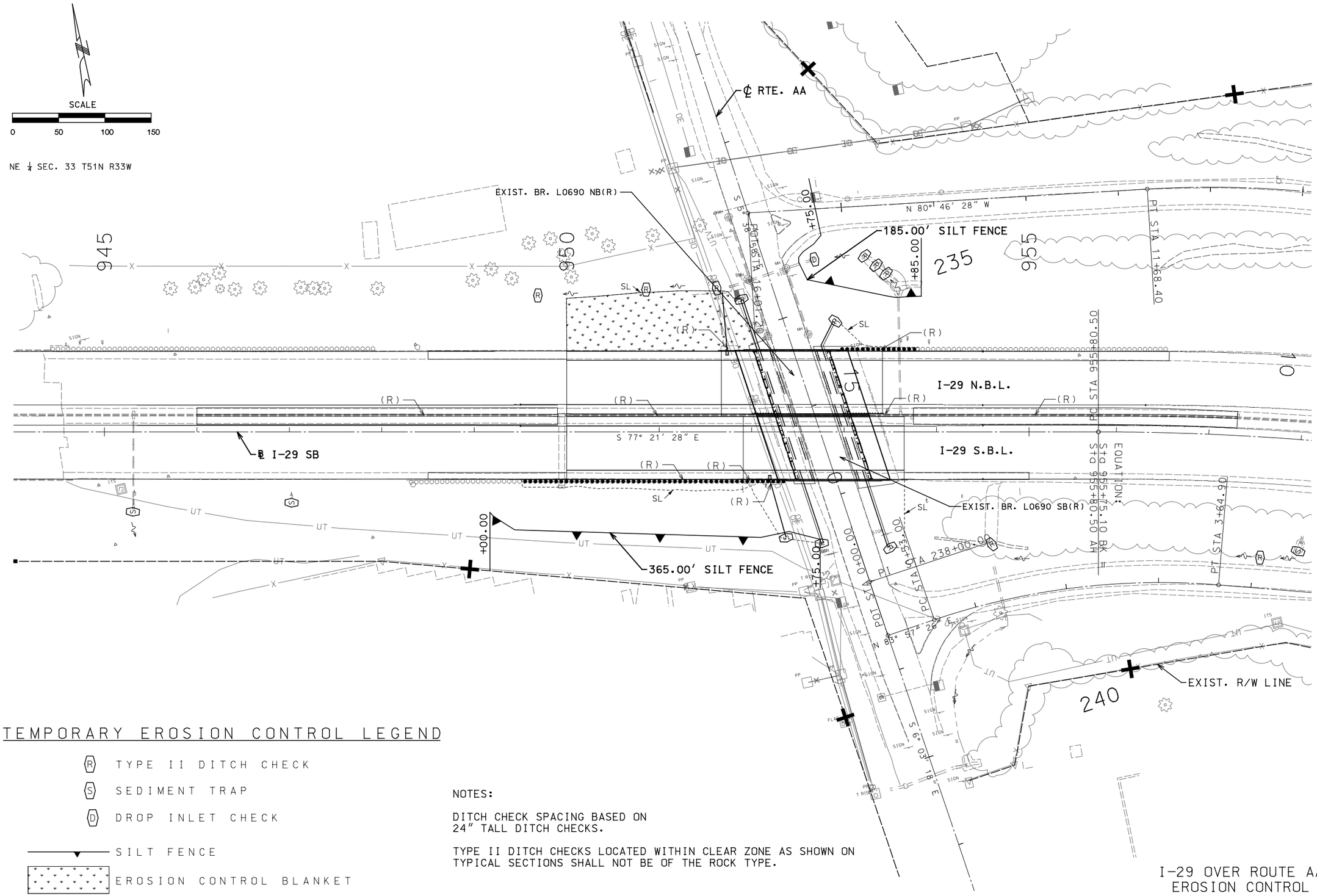

TEMPORARY EROSION CONTROL LEGEND

- (R) TYPE II DITCH CHECK
- (S) SEDIMENT TRAP
- (D) DROP INLET CHECK
- SILT FENCE
- EROSION CONTROL BLANKET

NOTES:

DITCH CHECK SPACING BASED ON 24" TALL DITCH CHECKS.

TYPE II DITCH CHECKS LOCATED WITHIN CLEAR ZONE AS SHOWN ON TYPICAL SECTIONS SHALL NOT BE OF THE ROCK TYPE.

I-29 OVER ROUTE AA
EROSION CONTROL
SHEET 1 OF 3

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	53
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No.: 000165
BMcD Project No. 109387

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

REV.

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EXIST. R/W

EXIST. R/W

NW 53RD STREET

SE1/4 NE1/4
S33 T51N R33W

RAMP 3

235

I-29
NORTHBOUND

WALL A8884

SL

CURB INLET
CHECK 3

CURB INLET
CHECK 5

ROUTE AA

S 5° 38' 58" E

MATCHLINE STA 236+00.00

CURB INLET
CHECK 1

CURB INLET
CHECK 2

CURB INLET
CHECK 4

FO

WALL A8883

SL

SILT FENCE

EXIST. R/W

EXIST. BRIDGE L0690
PROP. BRIDGE A8785

TEMPORARY EROSION CONTROL LEGEND

(C)	CURB INLET CHECK
(R)	ROCK DITCH CHECK
▼—▼	SILT FENCE

SCALE

0 20 40 60

EROSION CONTROL
ROUTE AA
SHEET 2 OF 3

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	54
COUNTY	PLATTE
JOB NO.	J4I3297
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)

TREKK DESIGN GROUP, LLC

1411 East 104th St.
Kansas City, MO 64131
Tel: (816) 874-4655
Fax: (816) 874-4675
www.trekkdesigngroup.com

Missouri Cert. of Authority 2002010300

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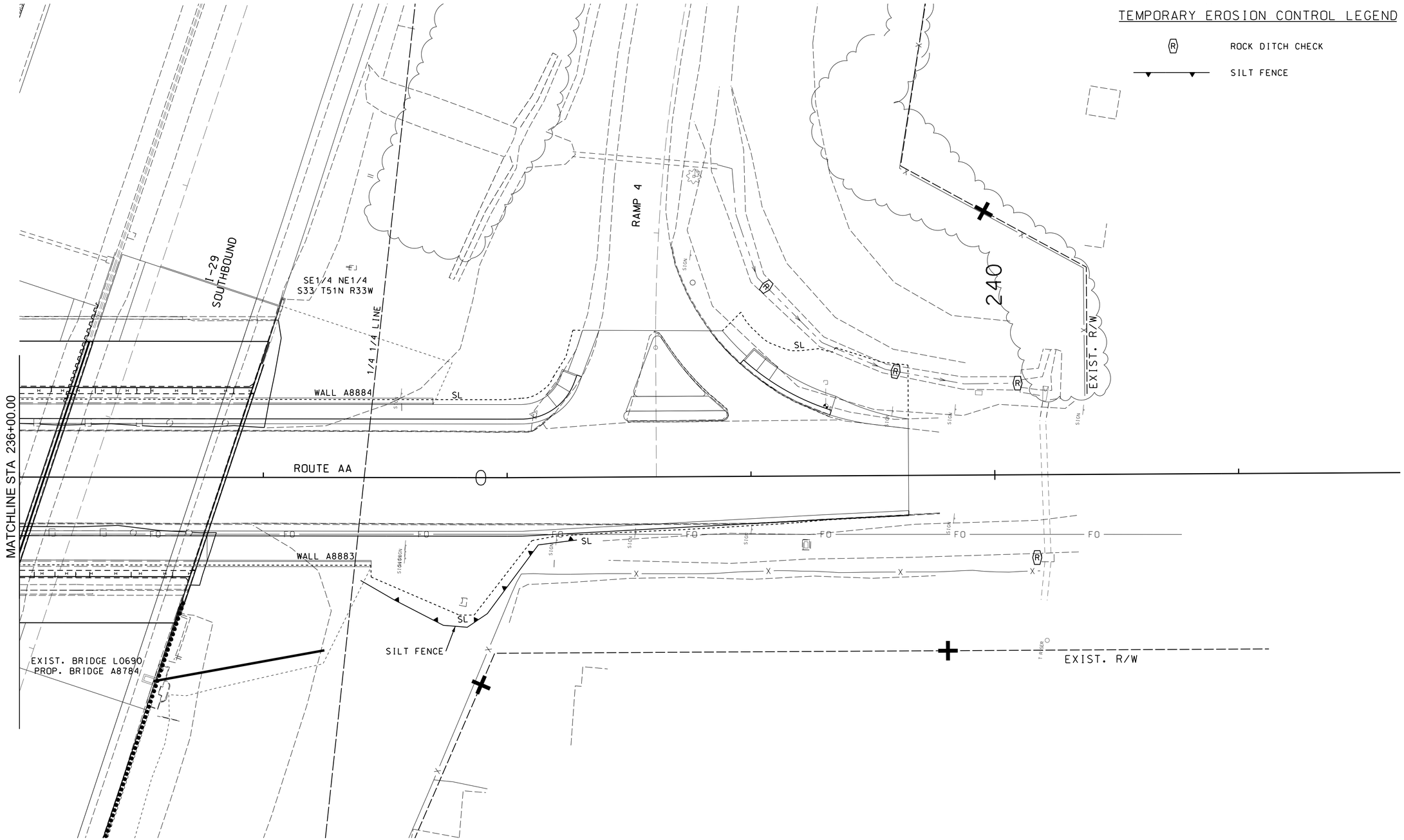

SCALE

0 20 40 60

EROSION CONTROL
ROUTE AA
SHEET 3 OF 3

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	55
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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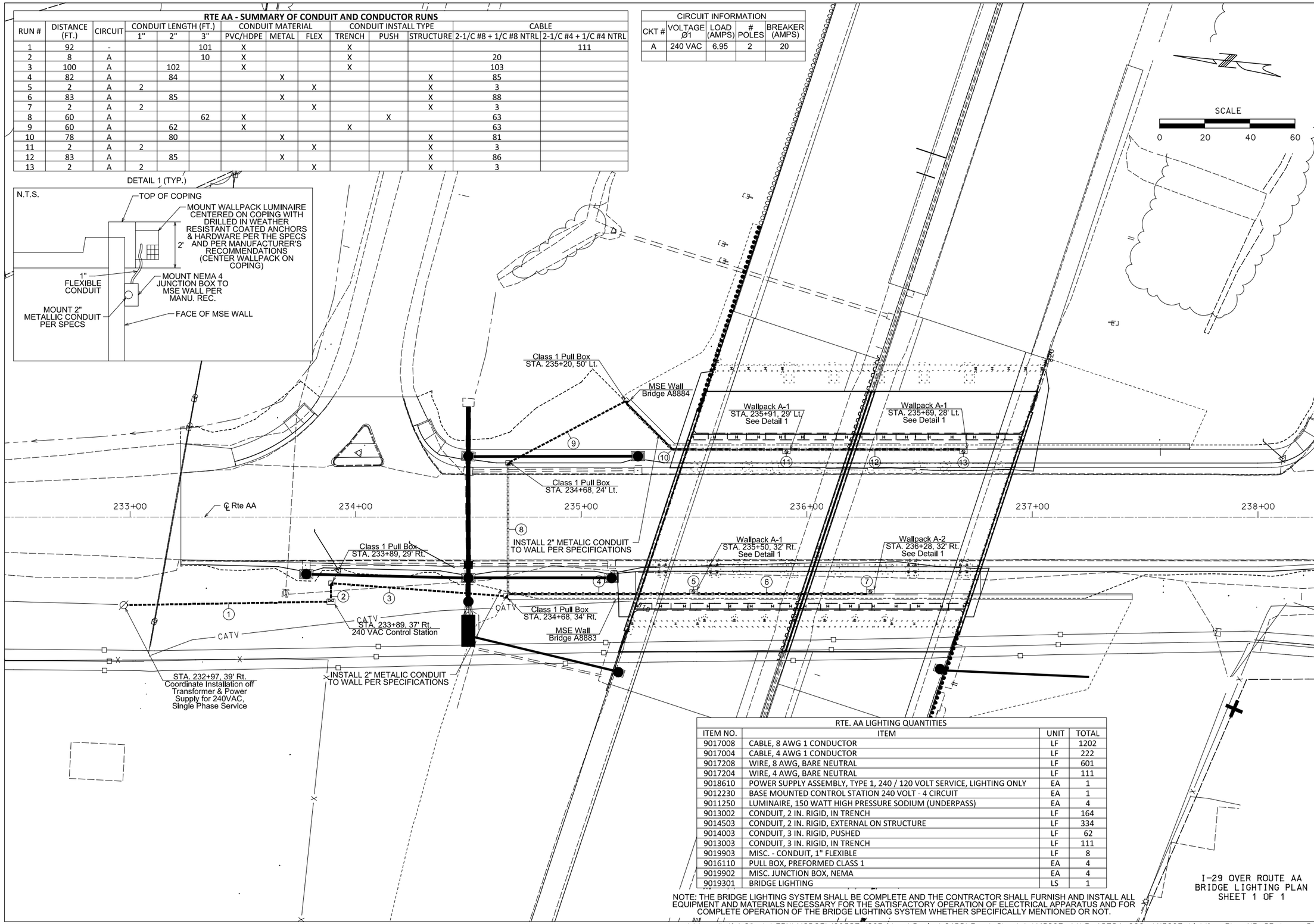
RTE AA - SUMMARY OF CONDUIT AND CONDUCTOR RUNS

RUN #	DISTANCE (FT.)	CIRCUIT	CONDUIT LENGTH (FT.)			CONDUIT MATERIAL			CONDUIT INSTALL TYPE			CABLE	
			1"	2"	3"	PVC/HDPE	METAL	FLEX	TRENCH	PUSH	STRUCTURE	2-1/C #8 + 1/C #8 NTRL	2-1/C #4 + 1/C #4 NTRL
1	92	-			101	X			X				111
2	8	A			10	X			X			20	
3	100	A		102		X			X			103	
4	82	A		84			X				X	85	
5	2	A	2					X			X	3	
6	83	A		85			X				X	88	
7	2	A	2					X			X	3	
8	60	A			62	X				X		63	
9	60	A		62		X			X			63	
10	78	A		80			X				X	81	
11	2	A	2					X			X	3	
12	83	A		85			X				X	86	
13	2	A	2					X			X	3	

CIRCUIT INFORMATION

CKT #	VOLTAGE Ø1	LOAD (AMPS)	# POLES	BREAKER (AMPS)
A	240 VAC	6.95	2	20



RTE. AA LIGHTING QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
9017008	CABLE, 8 AWG 1 CONDUCTOR	LF	1202
9017004	CABLE, 4 AWG 1 CONDUCTOR	LF	222
9017208	WIRE, 8 AWG, BARE NEUTRAL	LF	601
9017204	WIRE, 4 AWG, BARE NEUTRAL	LF	111
9018610	POWER SUPPLY ASSEMBLY, TYPE 1, 240 / 120 VOLT SERVICE, LIGHTING ONLY	EA	1
9012230	BASE MOUNTED CONTROL STATION 240 VOLT - 4 CIRCUIT	EA	1
9011250	LUMINAIRE, 150 WATT HIGH PRESSURE SODIUM (UNDERPASS)	EA	4
9013002	CONDUIT, 2 IN. RIGID, IN TRENCH	LF	164
9014503	CONDUIT, 2 IN. RIGID, EXTERNAL ON STRUCTURE	LF	334
9014003	CONDUIT, 3 IN. RIGID, PUSHED	LF	62
9013003	CONDUIT, 3 IN. RIGID, IN TRENCH	LF	111
9019903	MISC. - CONDUIT, 1" FLEXIBLE	LF	8
9016110	PULL BOX, PREFORMED CLASS 1	EA	4
9019902	MISC. JUNCTION BOX, NEMA	EA	4
9019301	BRIDGE LIGHTING	LS	1

NOTE: THE BRIDGE LIGHTING SYSTEM SHALL BE COMPLETE AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SATISFACTORY OPERATION OF ELECTRICAL APPARATUS AND FOR COMPLETE OPERATION OF THE BRIDGE LIGHTING SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

I-29 OVER ROUTE AA
BRIDGE LIGHTING PLAN
SHEET 1 OF 1

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

DATE	
DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	56
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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

DATE	DESCRIPTION

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

REV.

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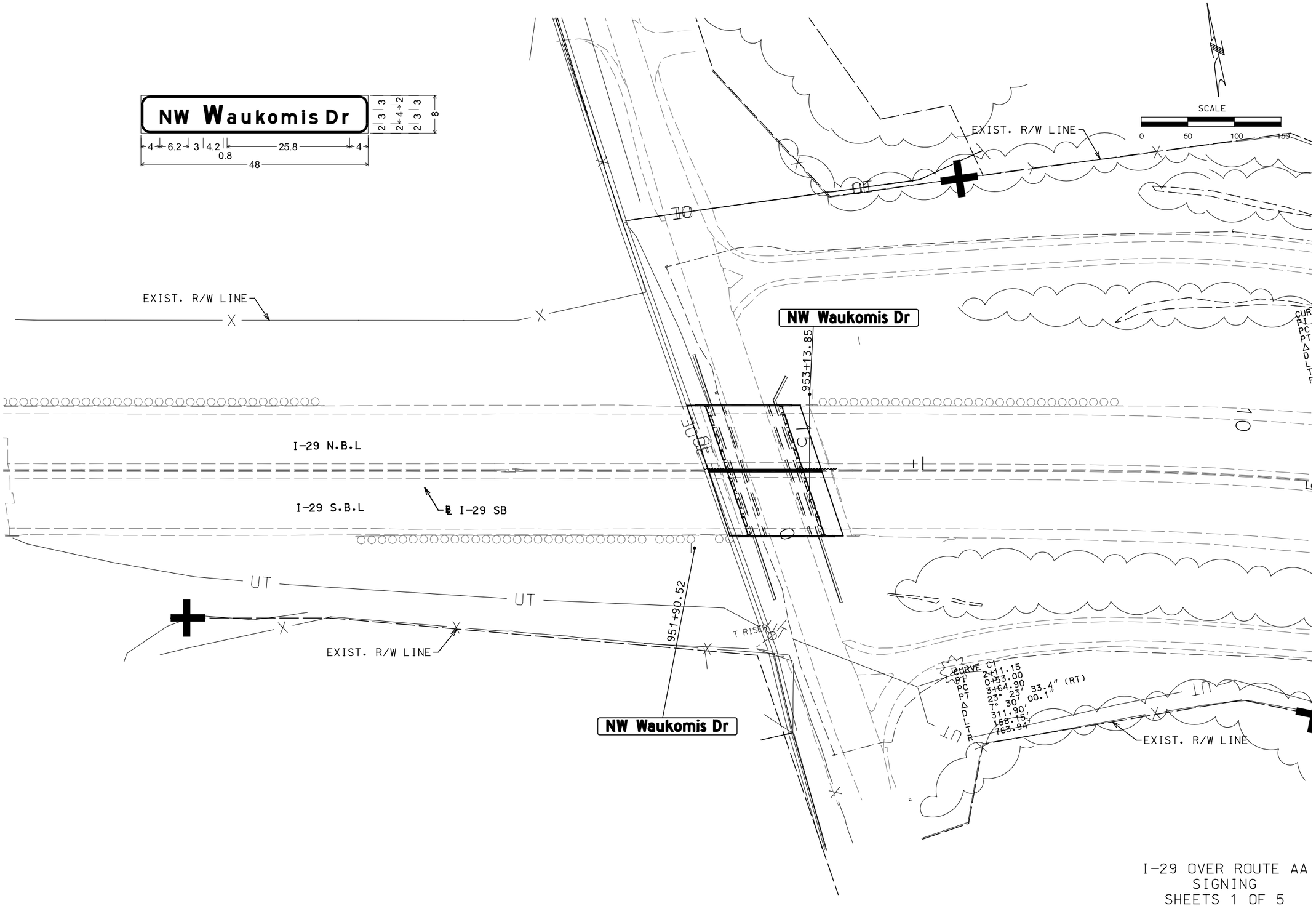

I-29 OVER ROUTE AA
SIGNING
SHEETS 1 OF 5

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	5-7
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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REV.

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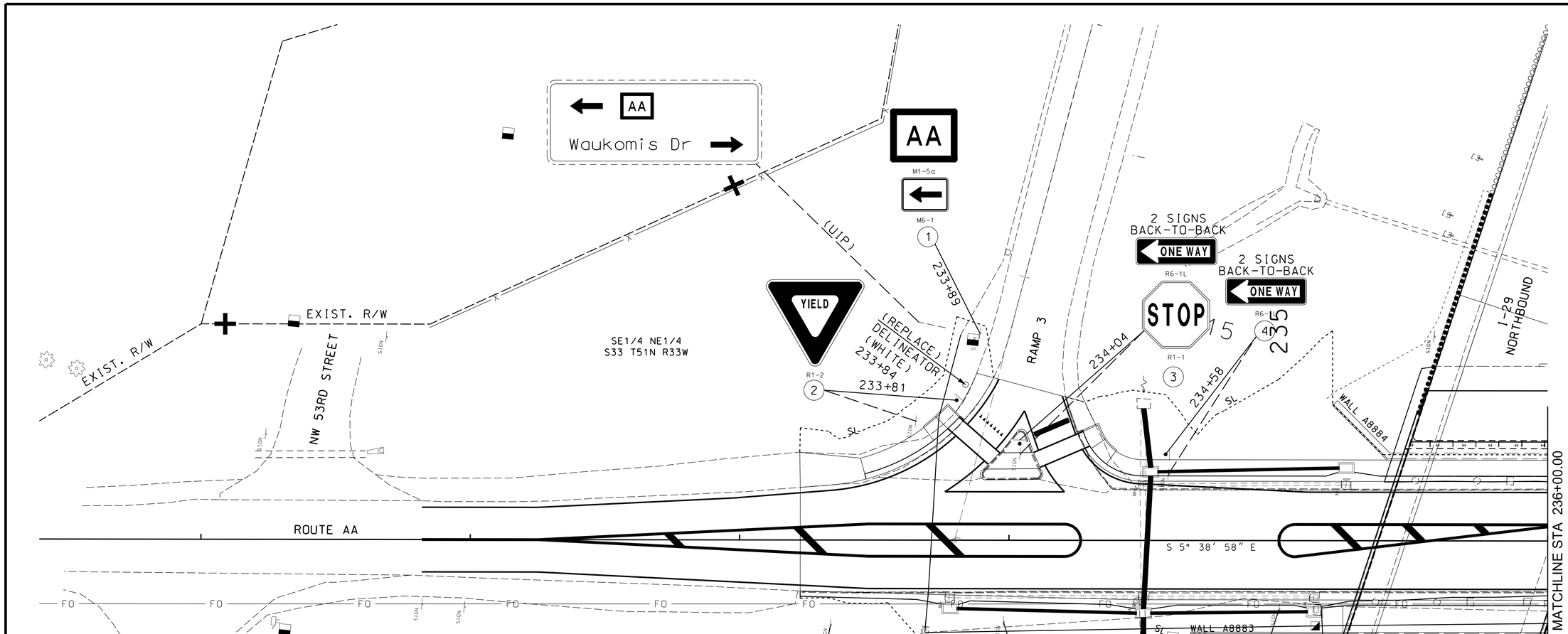
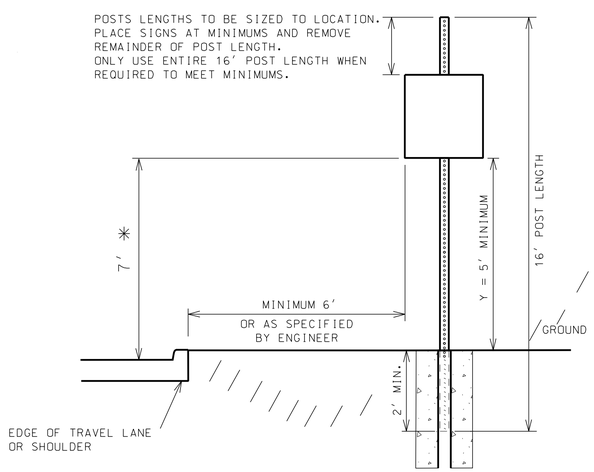


SIGNING
ROUTE AA
SHEET 2 OF 5

MOUNTING HEIGHT DETAIL

POSTS LENGTHS TO BE SIZED TO LOCATION.
PLACE SIGNS AT MINIMUMS AND REMOVE
REMAINDER OF POST LENGTH.
ONLY USE ENTIRE 16' POST LENGTH WHEN
REQUIRED TO MEET MINIMUMS.



* 7' MINIMUM REQUIRED IN URBAN APPLICATIONS AND PREFERRED IN RURAL APPLICATIONS. IN RURAL APPLICATIONS ONLY - IN SITUATIONS WHERE THE 7' MINIMUM CAN NOT BE ATTAINED WITH A 16' PSST A RANGE OF 5'- 7' CAN BE USED AS LONG AS DISTANCE "Y" IS ALSO MAINTAINED.

NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT. CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	58
COUNTY	PLATTE
JOB NO.	J4I3297
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)

TREKK DESIGN GROUP, LLC
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www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

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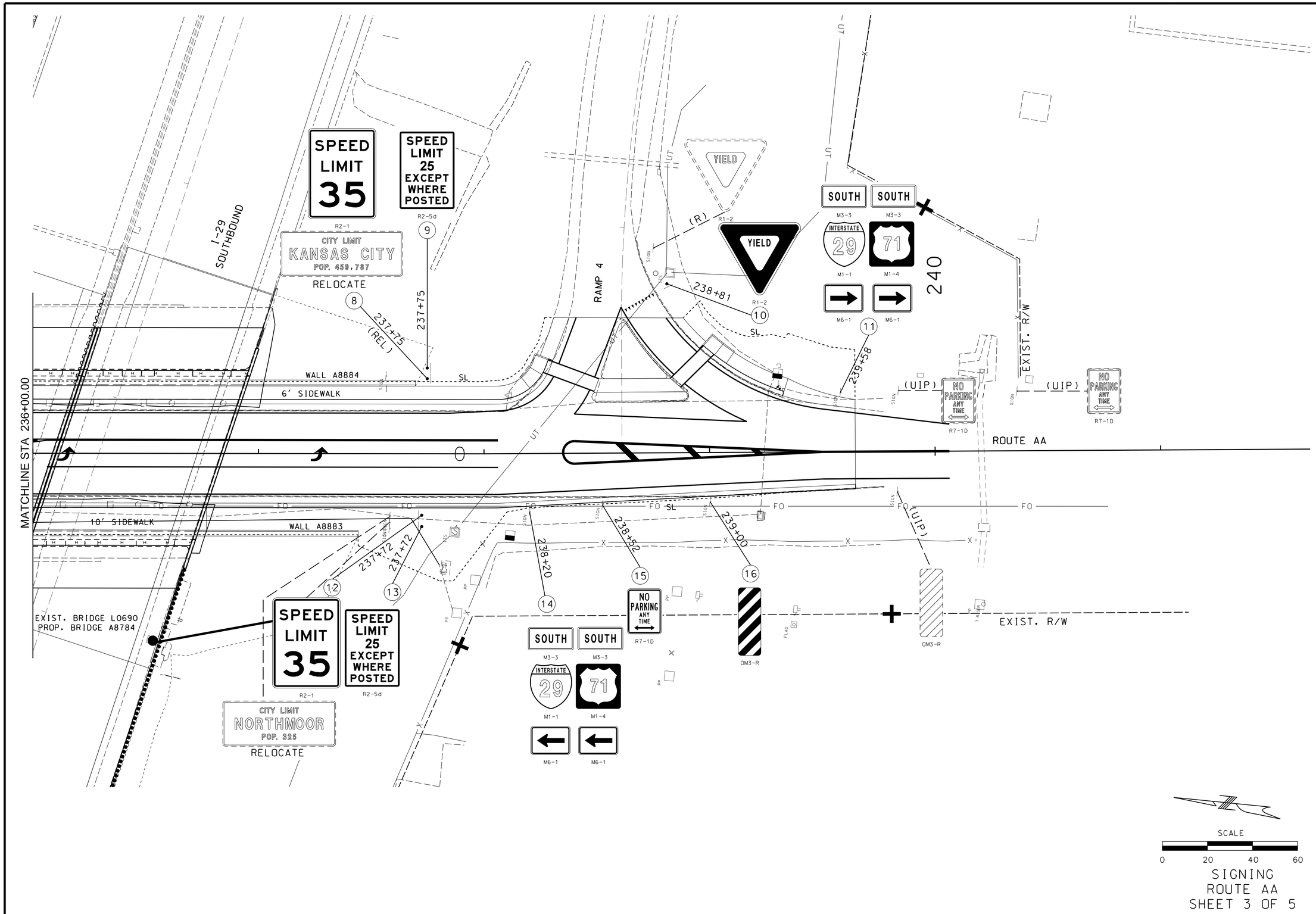

SIGNING
ROUTE AA
SHEET 3 OF 5

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	59
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL											U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST															FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
											POSTS ✳						BACKING BARS 2" X 3/8" BARS @ 2.55 LBS PER LIN FT				TOTAL		2 IN							2.5 IN						BREAK-AWAY ASSEMBLY	EMBD	BOLT DOWN	
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	ITEM NO. 9031241	ITEM NO. 9031010	ITEM NO. 9031020	
						IN.	LF	LF		LBS		LF	LF	LF		LBS		IN.	LF	LBS	LBS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	CU YDS	CU YDS	
1	ASSEMBLY	233+89		LEFT																			16		16			3									0.09		
2	48"X48"	233+81		LEFT																			16		16			3									0.09		
3	ASSEMBLY	234+04		LEFT																			16		16			3									0.09		
4	36"X12"	234+58		LEFT																			16		16			3									0.09		
5	24"X24"	233+34		RIGHT																			16		16			3									0.09		
6	48"X36"	233+98		RIGHT																			16	16	32			6									0.18		
7	ASSEMBLY	235+00		RIGHT													6	50	25.0	64										16		16		3			0.09		
8	ASSEMBLY	237+75		LEFT																			16	16	32			6									0.18		
9	36"X48"	237+75		LEFT																										16		16		3			0.09		
10	48"X48"	238+81		LEFT																			16		16			3									0.09		
11	ASSEMBLY	239+58		LEFT													6	50	25.0	64										16		16		3			0.09		
12	ASSEMBLY	237+72		RIGHT																			16	16	32			6									0.18		
13	36"X48"	237+72		RIGHT																										16		16		3			0.09		
14	ASSEMBLY	238+20		RIGHT													6	50	25.0	64										16		16		3			0.09		
15	18"X24"	238+52		RIGHT																			16		16			3									0.09		
16	12"X36"	239+00		RIGHT																			16		16			3									0.09		
N/A	3"X6"	233+84		LEFT																		7																	
17	48"X8"	951+91		RIGHT																			16		16			3									0.09		
17	48"X8"	953+14		LEFT																			16		16			3									0.09		
SUBTOTAL																				200		7			224			42				80		15			1.7		
TOTAL																				200		7			224			42				80		15			1.7		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'-3½"	12"	4'-6"	0.13
3	7.58	0.63	4'-3½"	12"	4'-6"	0.13
4	10.79	0.90	5'-3½"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

SIGNING SHEET 4 OF 5

D-29

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

DATE PREPARED 7/19/2020

ROUTE I-29 | STATE MO

DISTRICT KC | SHEET NO. 60

COUNTY PLATTE

JOB NO. J4I3297

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

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

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority No. : 000165
BMcD Project No. 109387

BURNS McDONNELL

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EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	M1-5a	M6-1	R1-2	R6-1L	M3-3	M1-1	M1-4	M5-1L	R1-1	R2-1	R2-5d	R7-1D	OM3-R			
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH															
			AA			ONE WAY	SOUTH	INTERSTATE 29	71		STOP	SPEED LIMIT 35	SPEED LIMIT 20 EXCEPT WHERE POSTED	NO PARKING ANY TIME				
1	233+89	LEFT	1	1														
2	233+81	LEFT			1													
3	234+04	LEFT				2					1							
4	234+58	LEFT				2												
5	233+34	RIGHT	1															
7	235+00	RIGHT					2	1	1	2								
8	237+75	LEFT										1						
9	237+75	LEFT											1					
10	238+81	LEFT			1													
11	239+58	LEFT		2			2	1	1									
12	237+72	RIGHT										1						
13	237+72	RIGHT											1					
14	238+20	RIGHT		2			2	1	1									
15	238+52	RIGHT												1				
16	239+00	RIGHT													1			

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	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
			SIZE, TYPE & SQUARE FEET				
M1-5a (STATE LETTERED RTE SHIELD)	STD	2	24"X24"	8.00			
M6-1 (TURN ARROW)	STD	5	21"X15"	10.94			
R1-2 (YIELD)	STD	2	48"X48"	17.88			
R6-1L (ONE WAY ARROW)	STD	4	36"X12"	12.00			
M3-3 (SOUTH - DIRECTION MARKER)	STD	6	24"X12"	12.00			
M1-1 (INTERSTATE SHIELD)	STD	3	24"X24"	12.00			
M1-4 (US NUMBERED ROUTE SHIELD)	STD	3	24"X24"	12.00			
M5-1L (ADVANCED LEFT TURN ARROW)	STD	2	21"X15"	4.38			
R1-1 (STOP)	STD	1	36"X36"	9.00			
R2-1 (SPEED LIMIT 35)	STD	2	36"X48"	24.00			
R2-5d (SPD LIM EXC WHERE POSTED)	STD	2	36"X48"	24.00			
OM3-R (OBJECT MARKER - RIGHT)	STD	1	12"X36"		3.00		
DELINEATOR (WHITE)	STD	1	3"X6"	0.13			
TOTAL				146	3		

✳ ORANGE, YELLOW & YELLOW/GREEN

SIGNING
SHEET 5 OF 5

D-30

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

DATE PREPARED 7/19/2020

ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	61

COUNTY: PLATTE

JOB NO. J4I3297

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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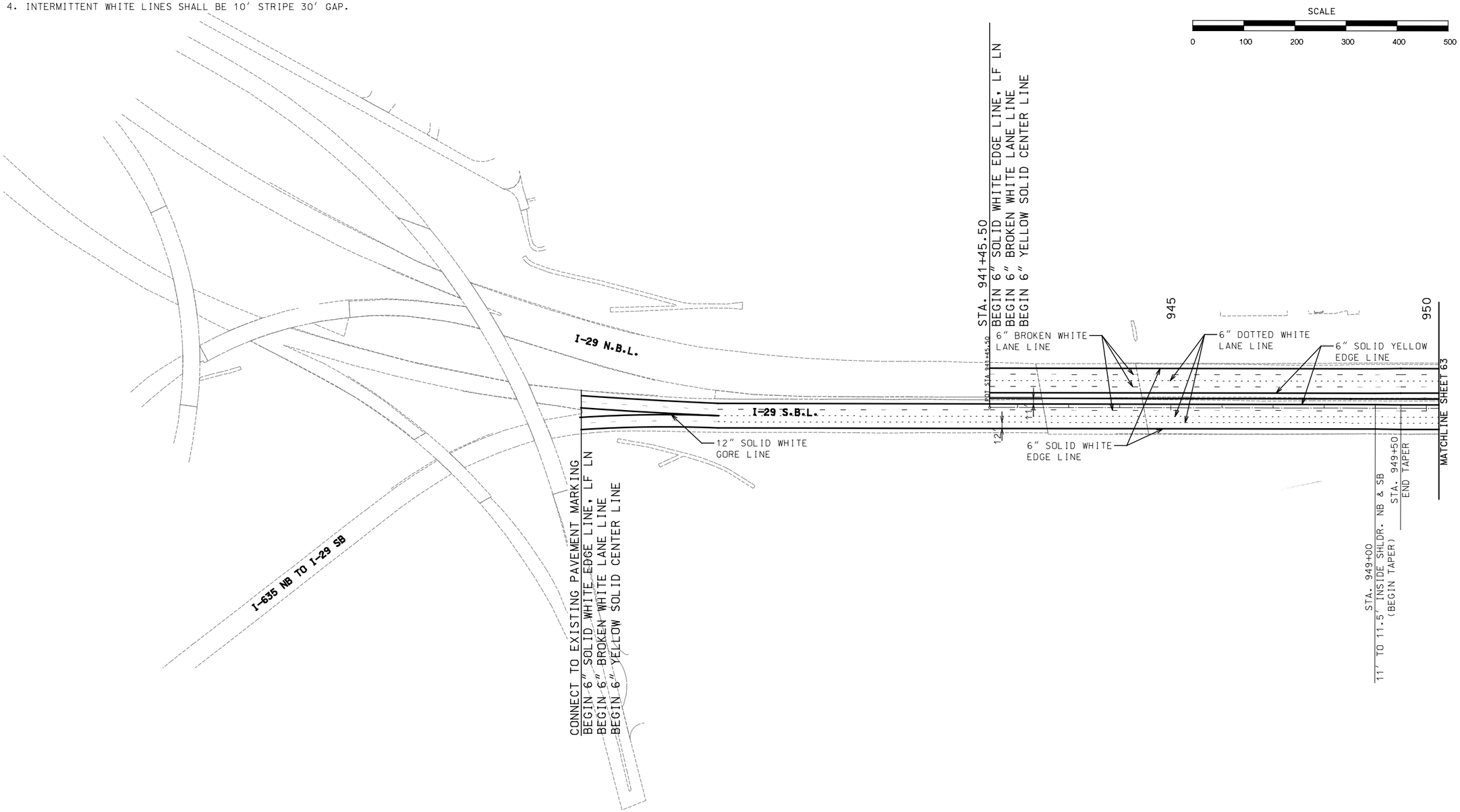
Certificate of Authority No. : 000165
BMcD Project No. 109387

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PAVEMENT MARKINGS SHOWN ON THIS SHEET ARE TO BE REMOVED.
2. ALL LANE AND EDGE LINES SHALL BE EPOXY. ALL INTERSECTION MARKING SHALL BE PREFORMED THERMOPLASTIC.
3. DOTTED WHITE LINES SHALL BE 2′ STRIPE WITH A 3′ GAP.
4. INTERMITTENT WHITE LINES SHALL BE 10′ STRIPE 30′ GAP.



SCALE

0 100 200 300 400 500

I-29 OVER ROUTE AA
PAVEMENT MARKING SHEETS
SHEET 1 OF 5

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	62
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

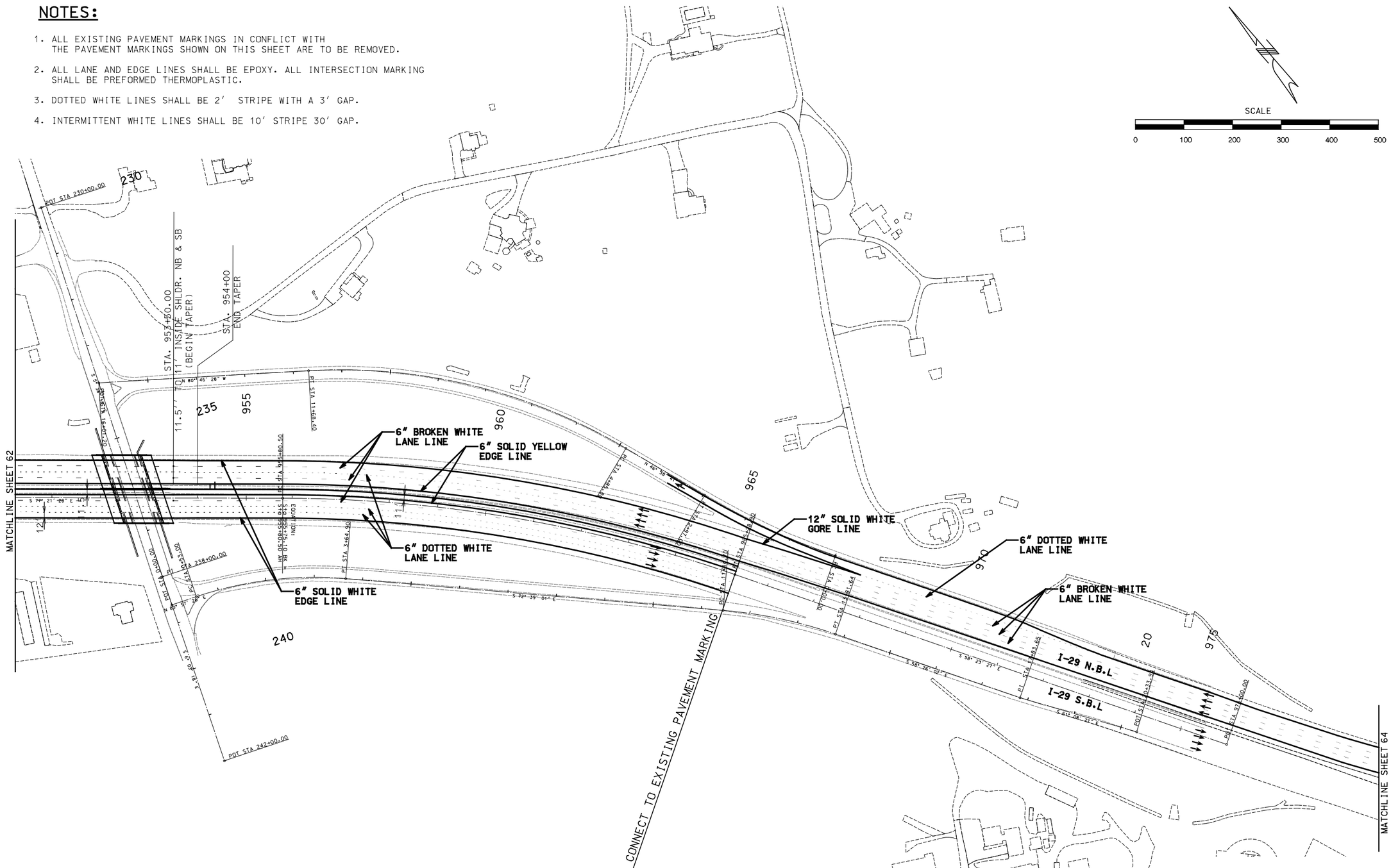
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

REV.

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PAVEMENT MARKINGS SHOWN ON THIS SHEET ARE TO BE REMOVED.
2. ALL LANE AND EDGE LINES SHALL BE EPOXY. ALL INTERSECTION MARKING SHALL BE PREFORMED THERMOPLASTIC.
3. DOTTED WHITE LINES SHALL BE 2′ STRIPE WITH A 3′ GAP.
4. INTERMITTENT WHITE LINES SHALL BE 10′ STRIPE 30′ GAP.



I-29 OVER ROUTE AA
PAVEMENT MARKING SHEETS
SHEET 2 OF 5

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	63
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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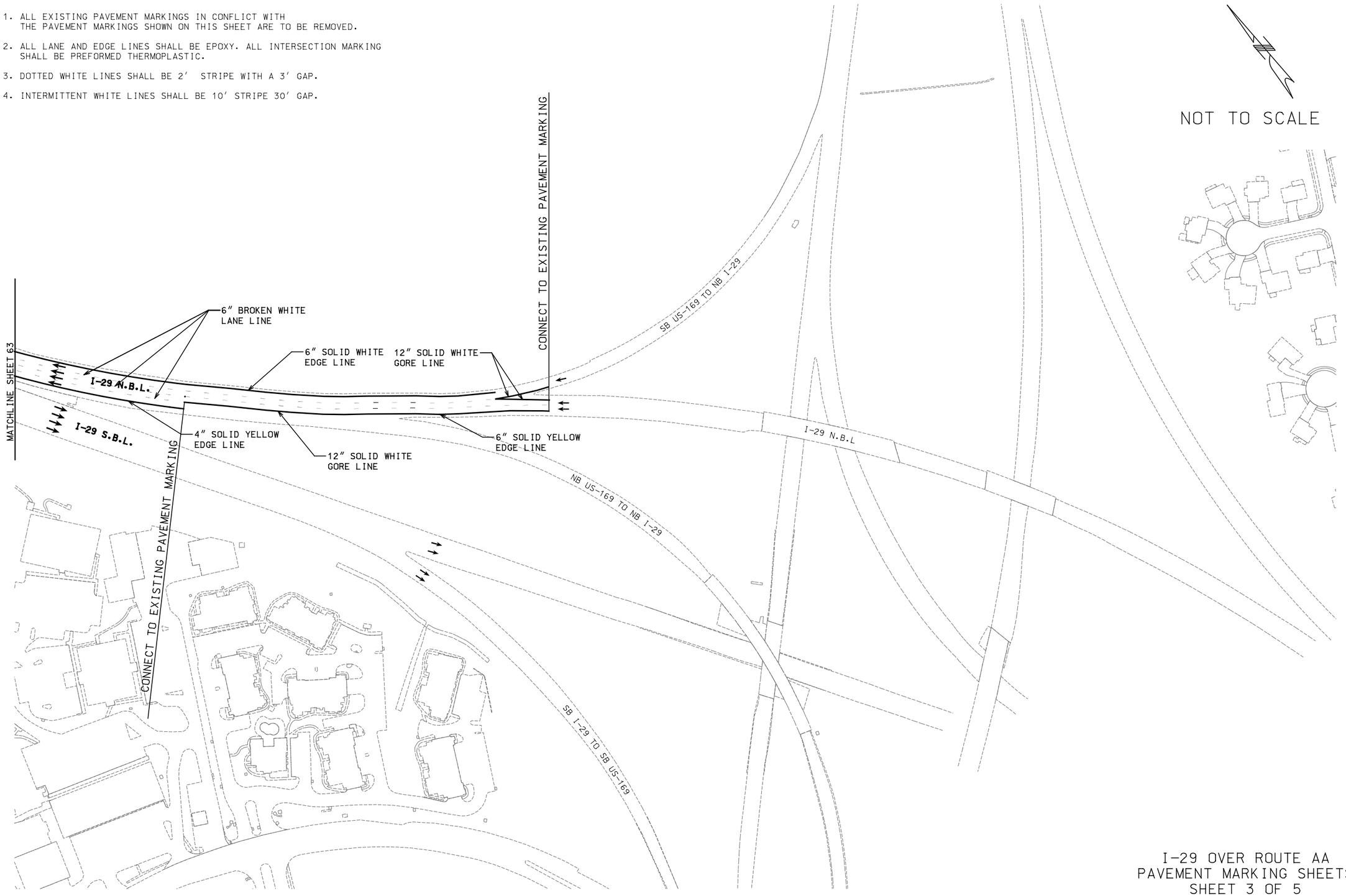

I-29 OVER ROUTE AA
PAVEMENT MARKING SHEETS
SHEET 3 OF 5

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	64
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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105 WEST CAPITOL
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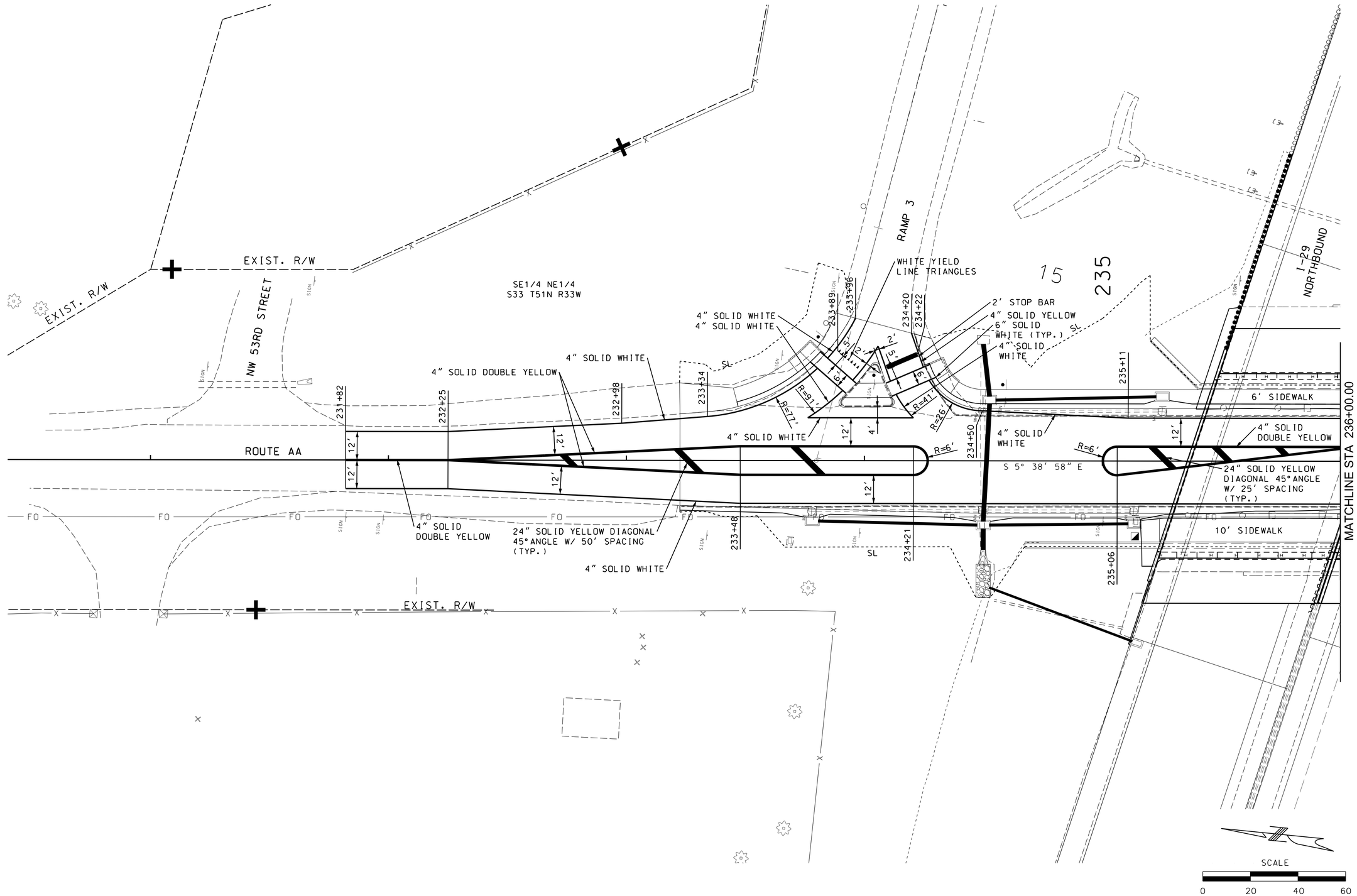

PAVEMENT MARKINGS
ROUTE AA
SHEET 4 OF 5

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	65
COUNTY	PLATTE
JOB NO.	J4I3297
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)

TREKK DESIGN GROUP, LLC

1411 East 104th St.
Kansas City, MO 64131
Tel (816) 874-4631
Fax (816) 874-4675
www.trekkdesigngroup.com

Missouri Cert. of Authority 2002010300

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

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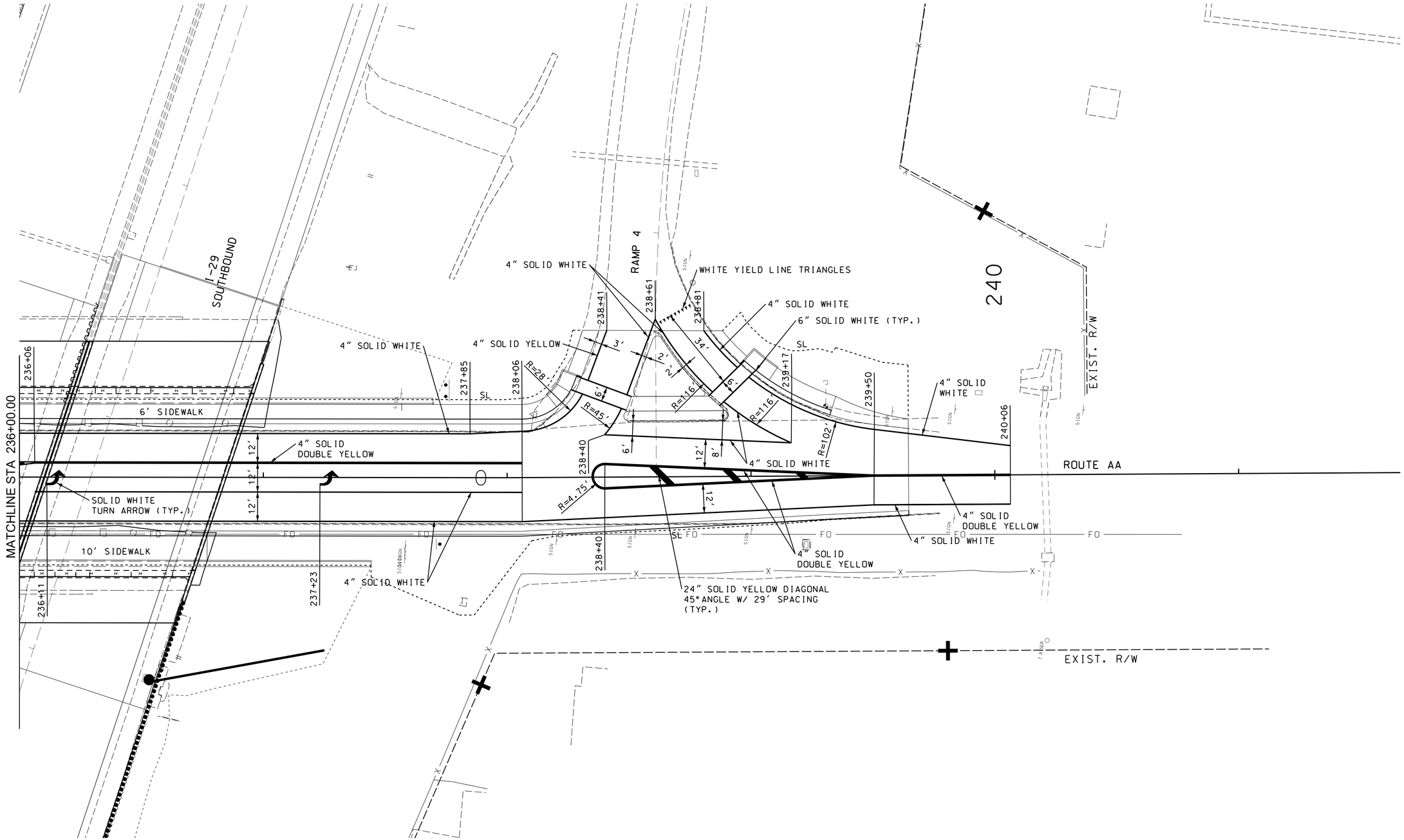

PAVEMENT MARKINGS
ROUTE AA
SHEET 5 OF 5

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	66
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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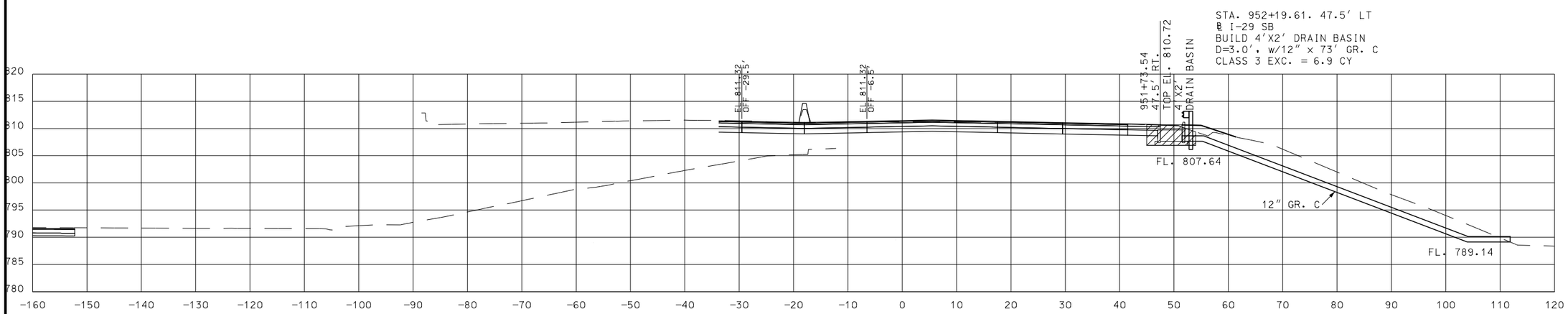
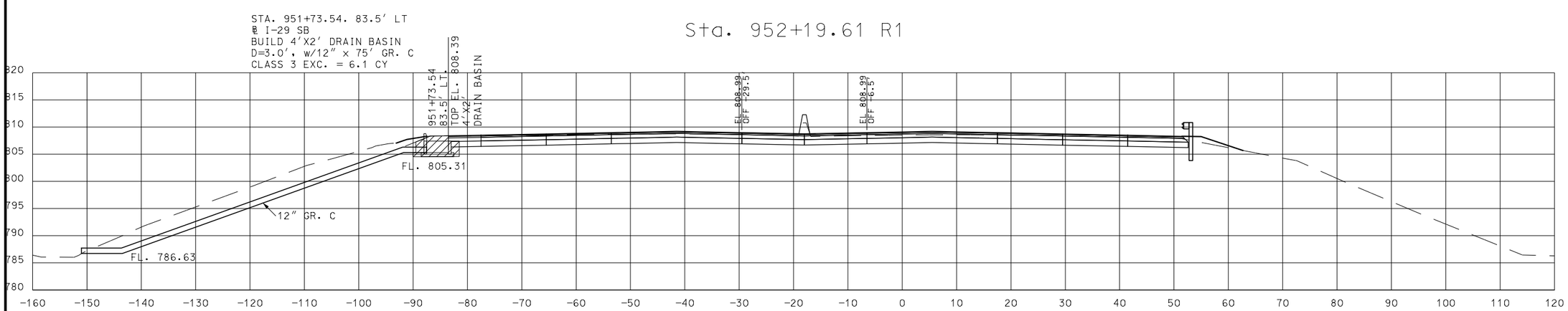


Sta. 952+19.61 R1



Sta. 951+73.54 R1

CULVERT SECTION SHEETS
SHEET 1 OF 2

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	6-7
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

REV.

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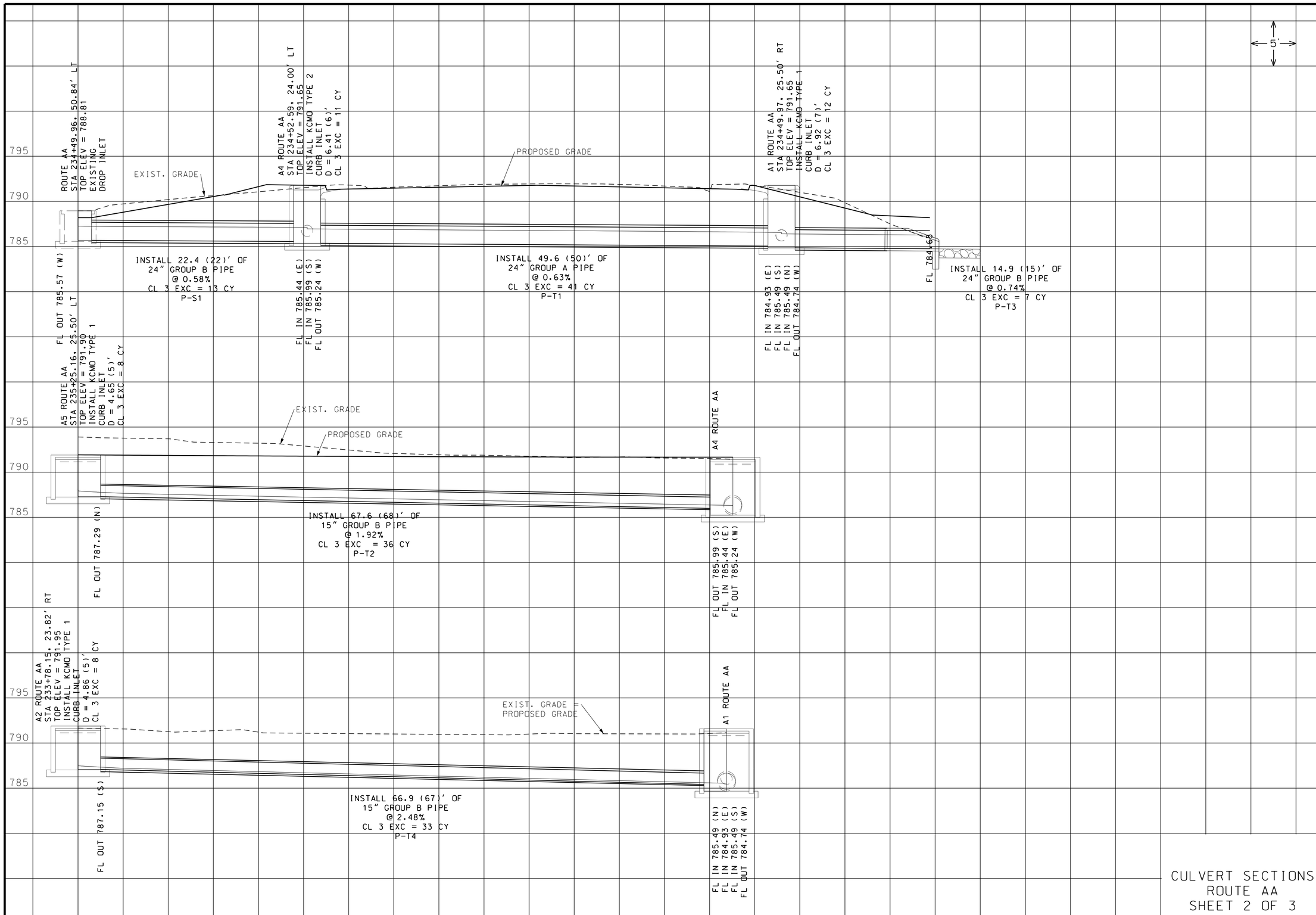

CULVERT SECTIONS
ROUTE AA
SHEET 2 OF 3

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	68
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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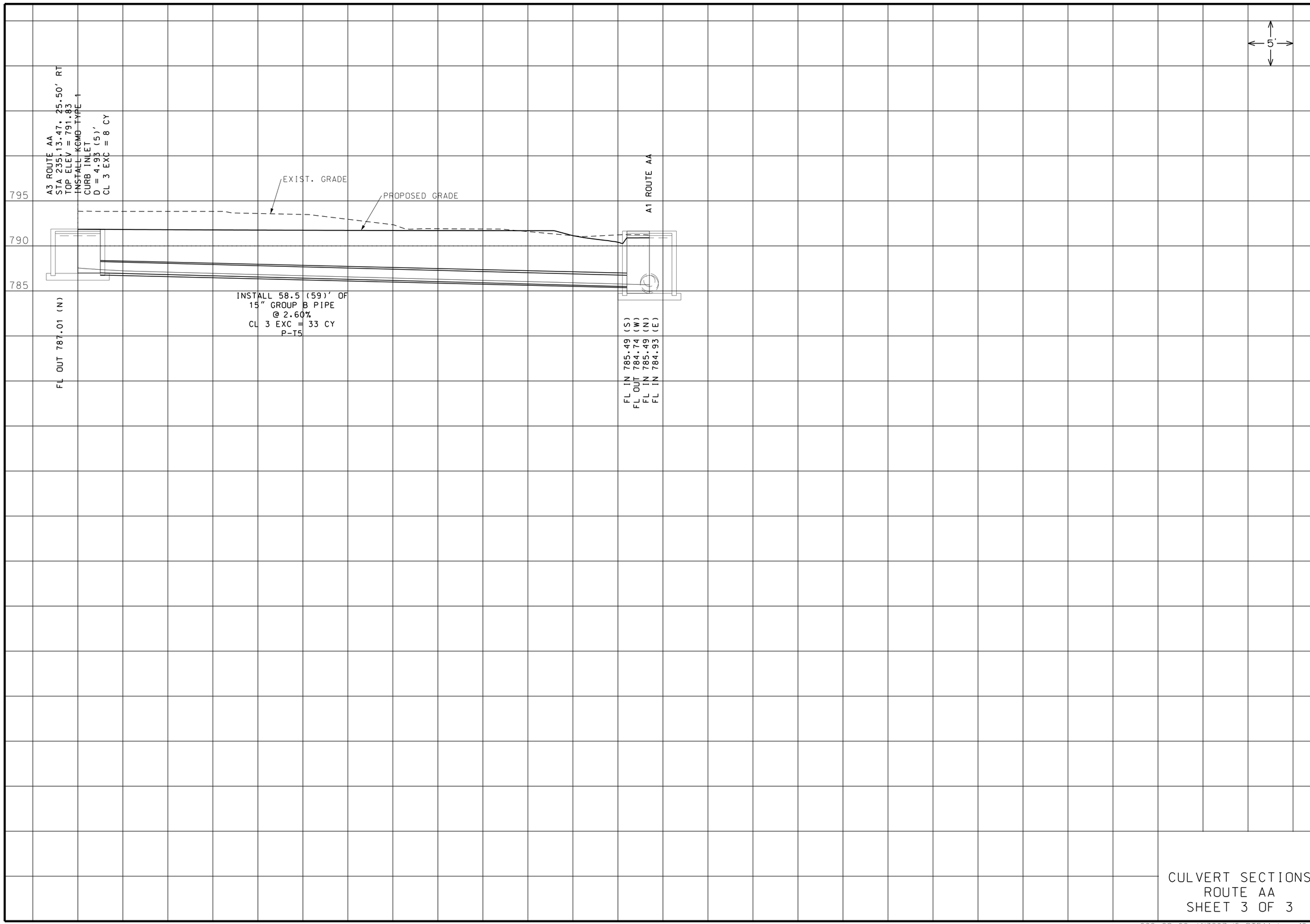

CULVERT SECTIONS
ROUTE AA
SHEET 3 OF 3

DATE PREPARED
6/26/2020

ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	69

COUNTY
PLATTE

JOB NO.
J4I3297

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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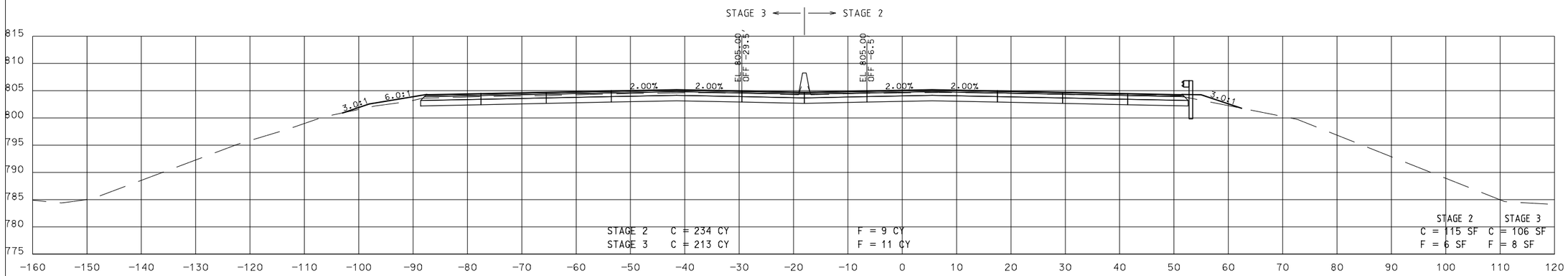

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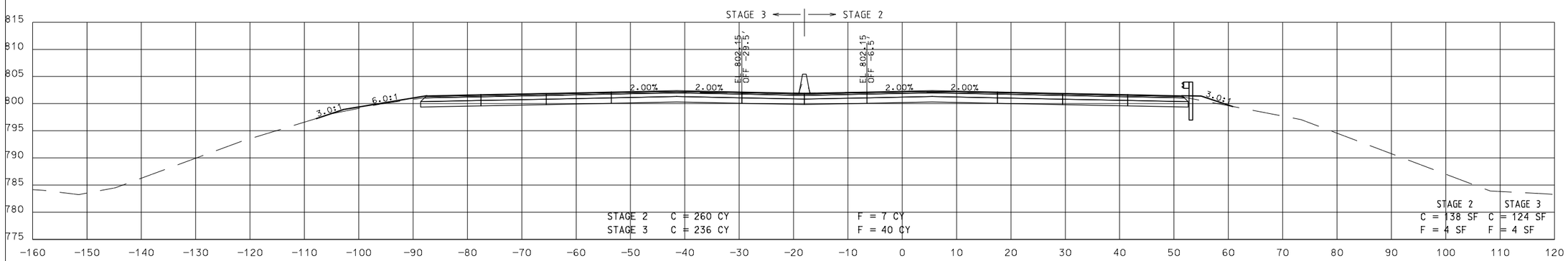

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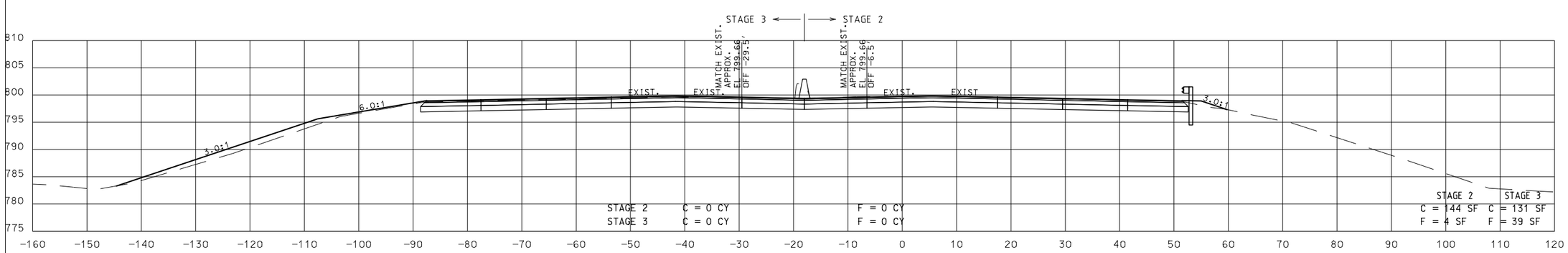

Sta. 950+00.00 R1

I-29 SB STA. 896+50.00 TO 951+00.00

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	1
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

BURNS McDONNELL

REV.

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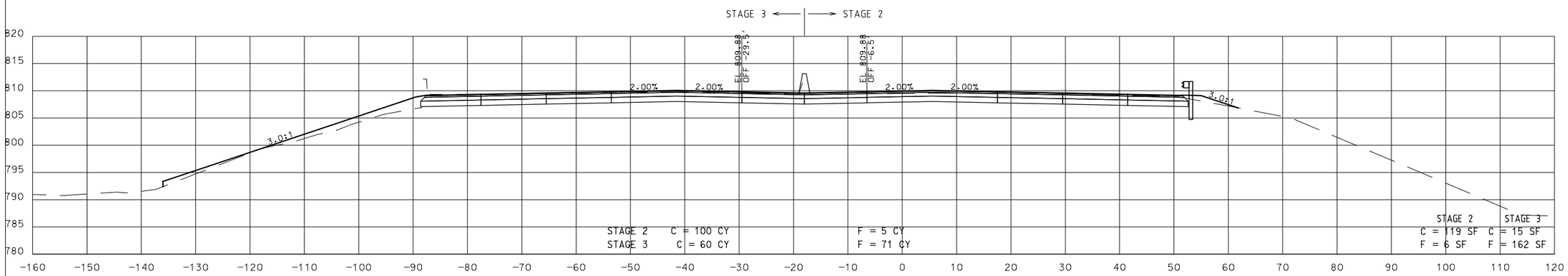

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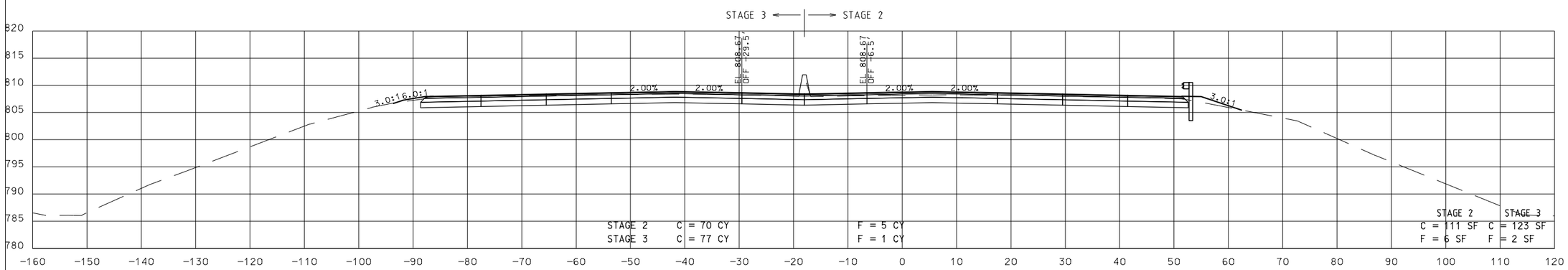

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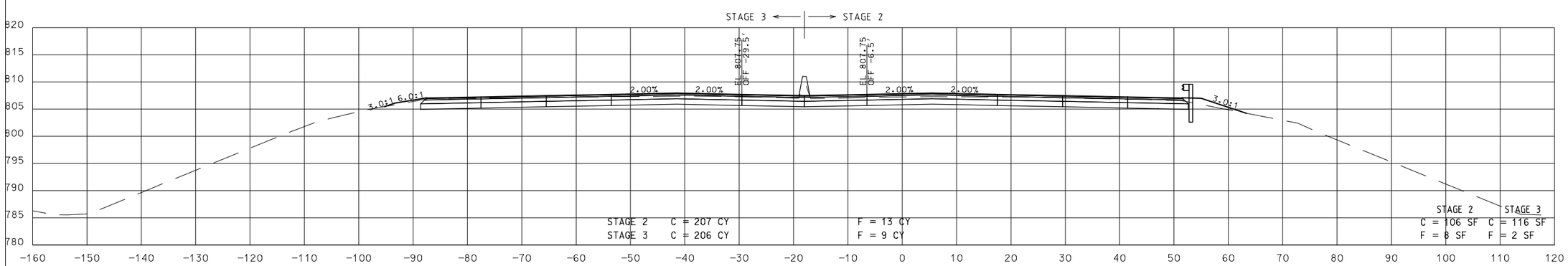

Sta. 951+50.00 R1

I-29 SB STA. 951+50.00 TO 951+90.82

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	2
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
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DESCRIPTION

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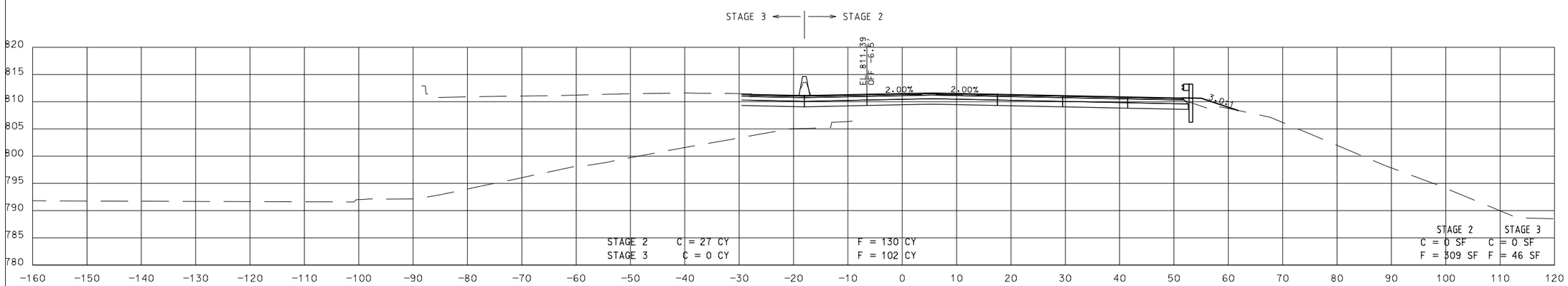

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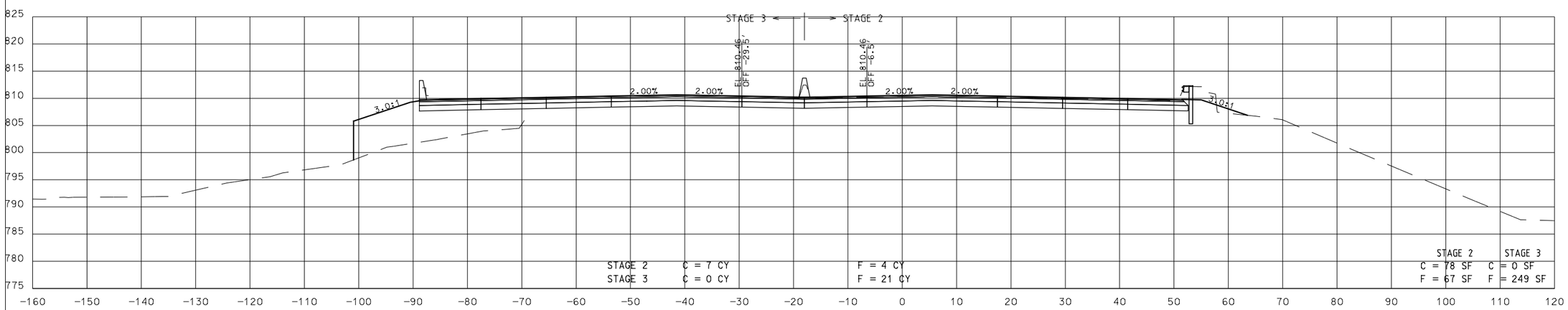

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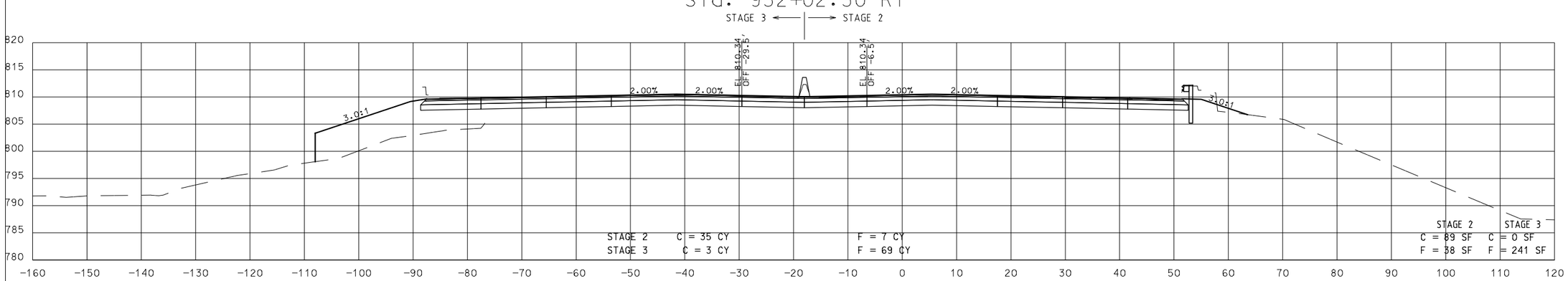

Sta. 952+00.00 R1

I-29 SB STA. 952+00.00 TO 952+21.00

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	3
COUNTY	PLATTE
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CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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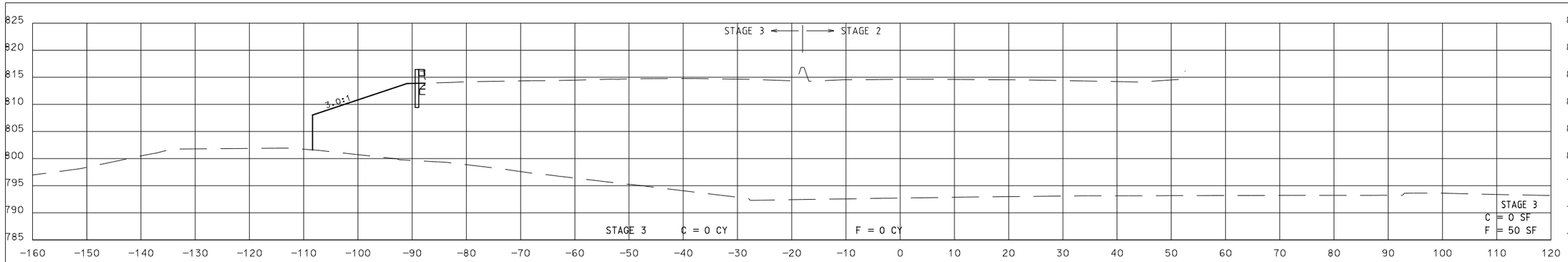


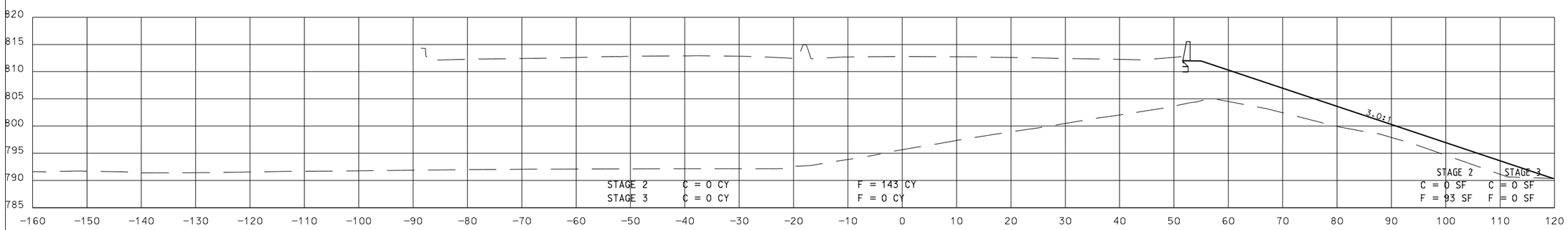
Sta. 952+84.98 R1

MSE WALL A8883 EXCAVATION

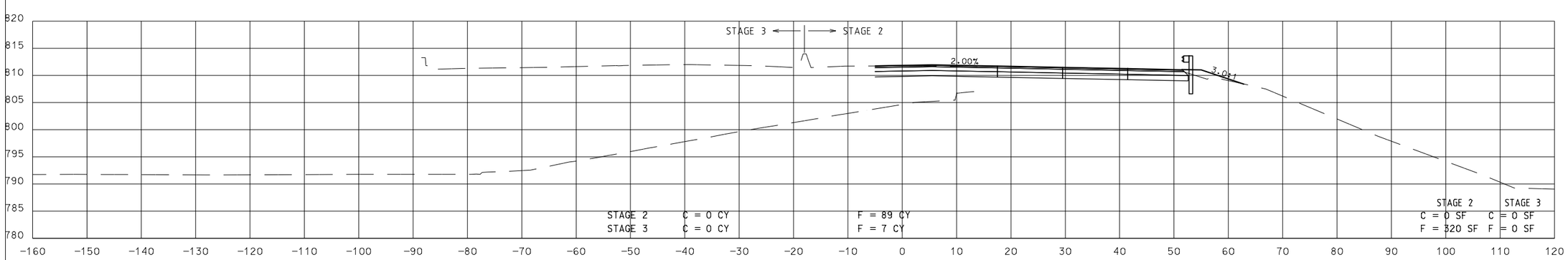
STAGE 2 CLASS A EXC = 1768 CY
STAGE 3 CLASS A EXC = 1948 CY

MSE WALL A8884 EXCAVATION

STAGE 2 CLASS A EXC = 1231 CY CLASS C EXC = 137 CY
STAGE 3 CLASS A EXC = 1097 CY CLASS C EXC = 122 CY



Sta. 952+47.30 R1



Sta. 952+28.60 R1

I-29 SB STA. 952+28.60 TO 952+84.98

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	4
COUNTY	PLATTE
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MoDOT

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BURNS McDONNELL

REV.

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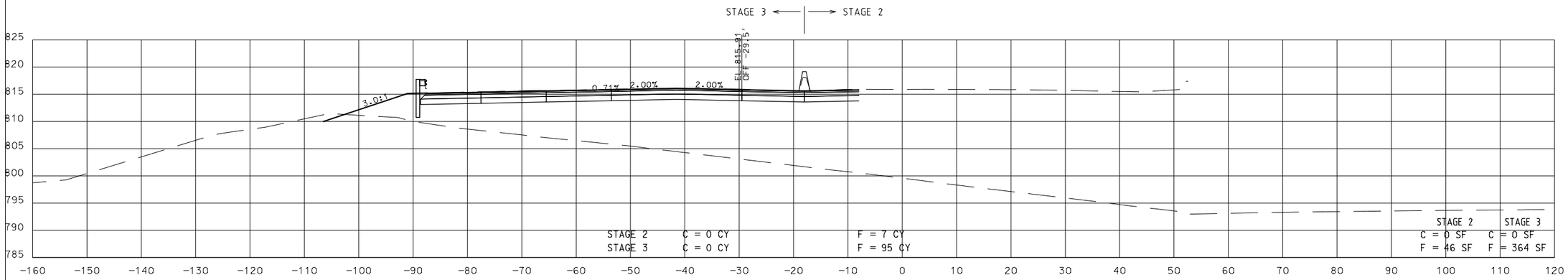

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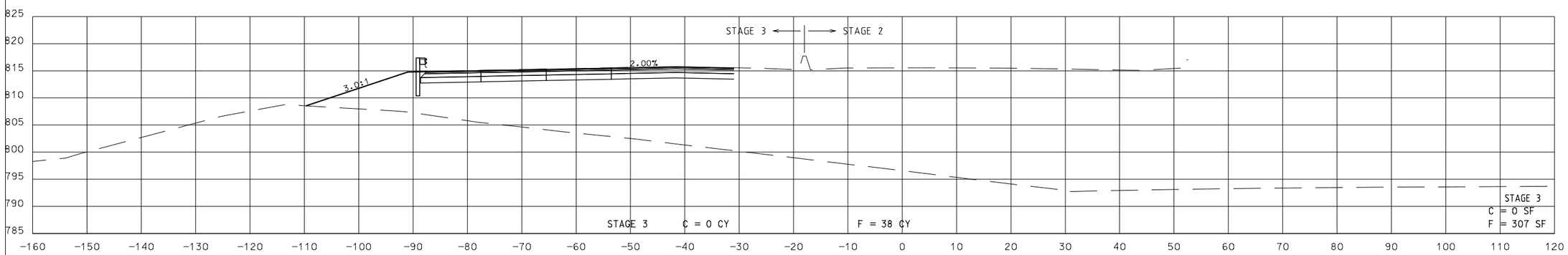
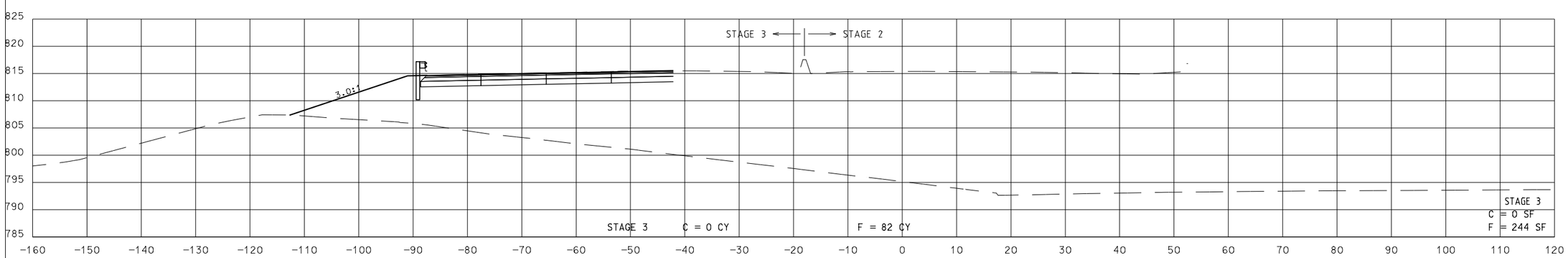


Sta. 953+03.69 R1



Sta. 953+00.00 R1

I-29 SB STA. 953+00.00 TO 953+11.29

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DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	5
COUNTY	PLATTE
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REV.

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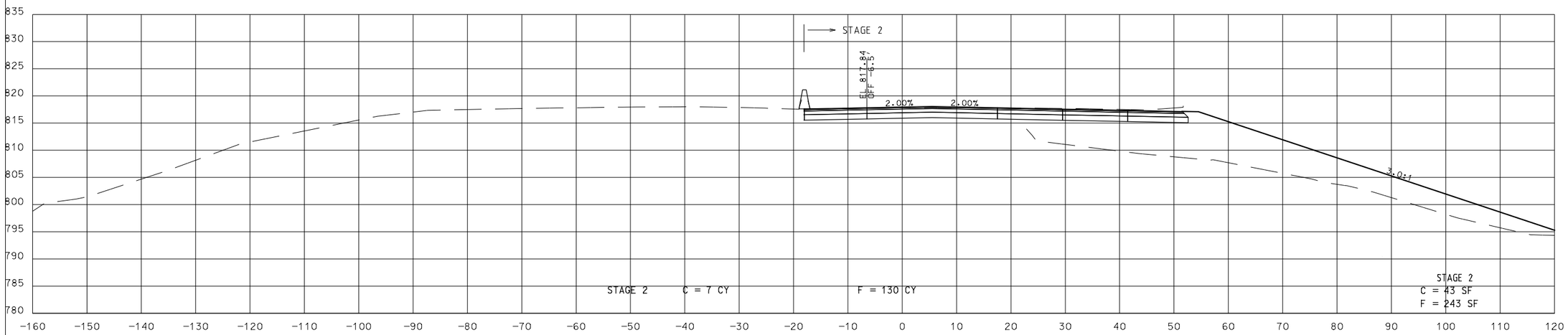
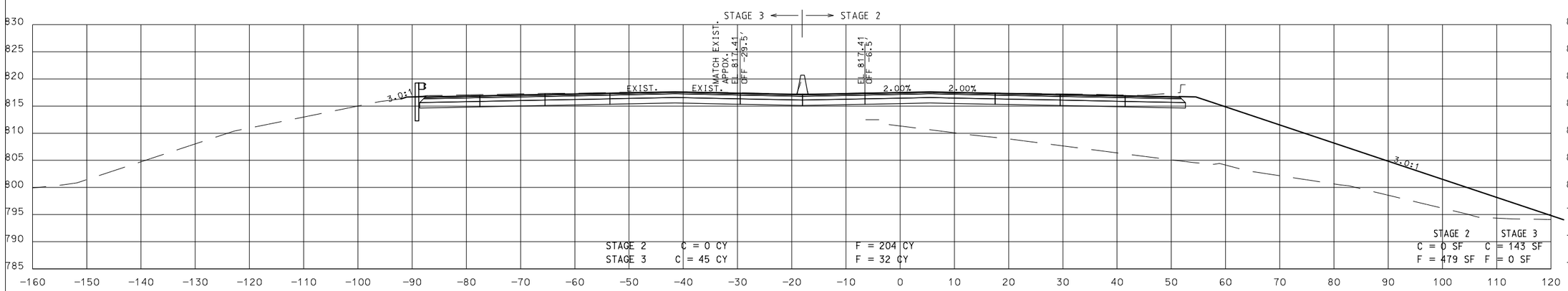


Sta. 953+50.00 R1



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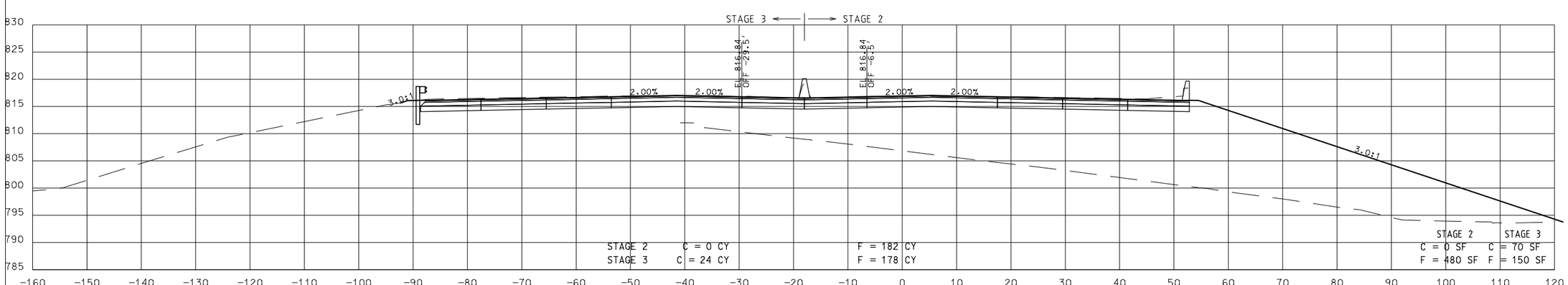


Sta. 953+29.99 R1

I-29 SB STA. 953+29.99 TO 953+55.00

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	6
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

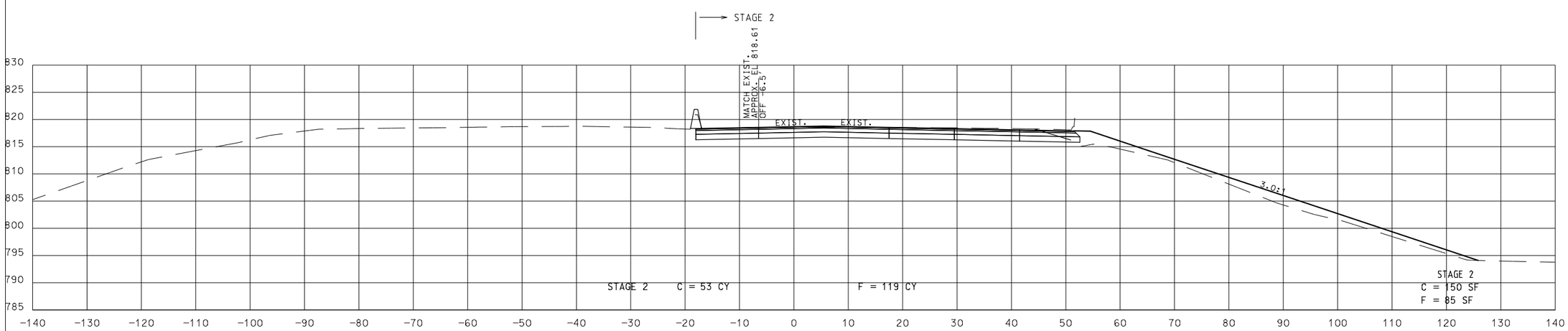
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 109387

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

REV.



Sta. 953+65.00 R1

I-29 SB STA. 953+65.00 TO 953+65.00

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

DATE PREPARED	7/19/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	7
COUNTY	PLATTE
JOB NO.	J4I3297
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)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 109387

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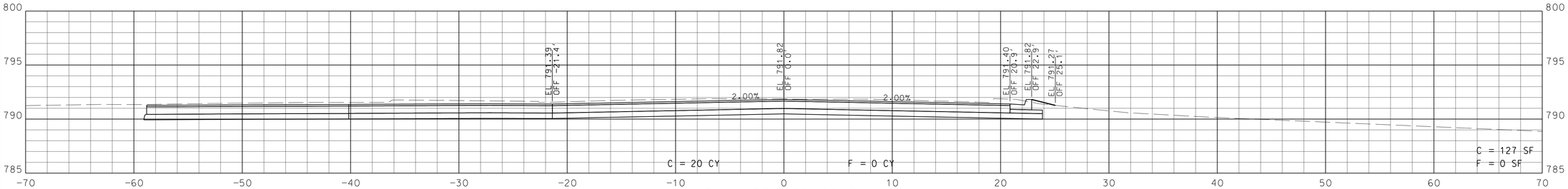
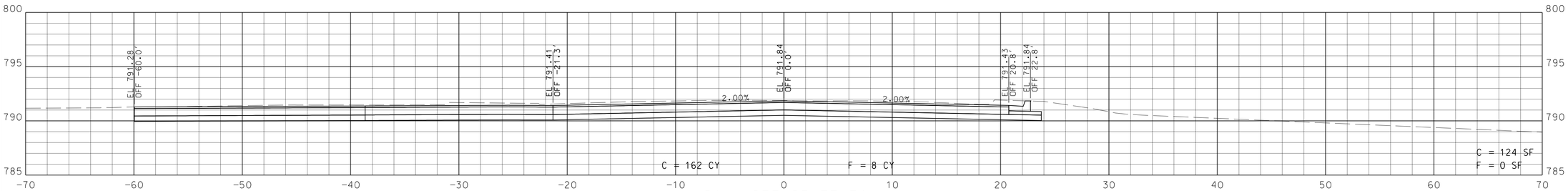


Sta. 234+00.00 R1



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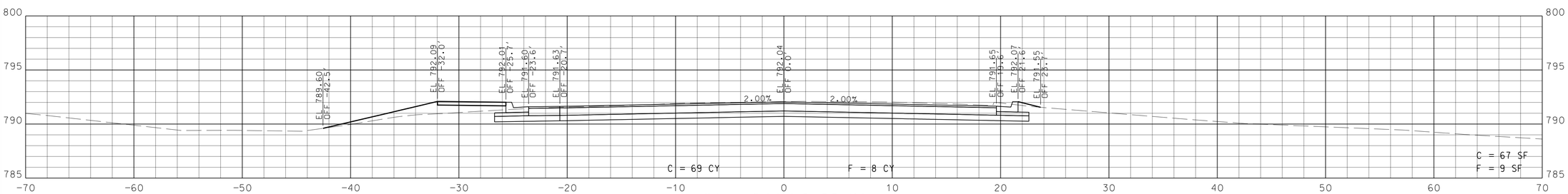
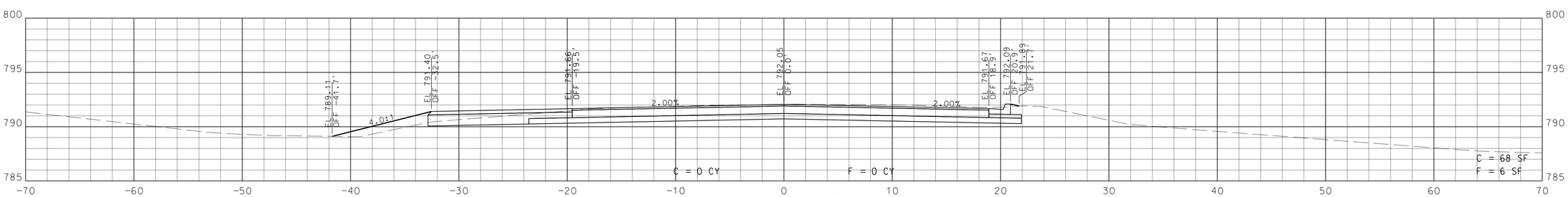


Sta. 233+50.00 R1



Sta. 233+22.50 R1

ROUTE AA STA. 233+22.50 R1 TO STA. 234+00.00 R1

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	8
COUNTY	PLATTE
JOB NO.	J4I3297
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)

1411 East 104th St.
Kansas City, MO 64131
Tel (816) 874-4655
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Missouri Cert. of Authority 2002010300

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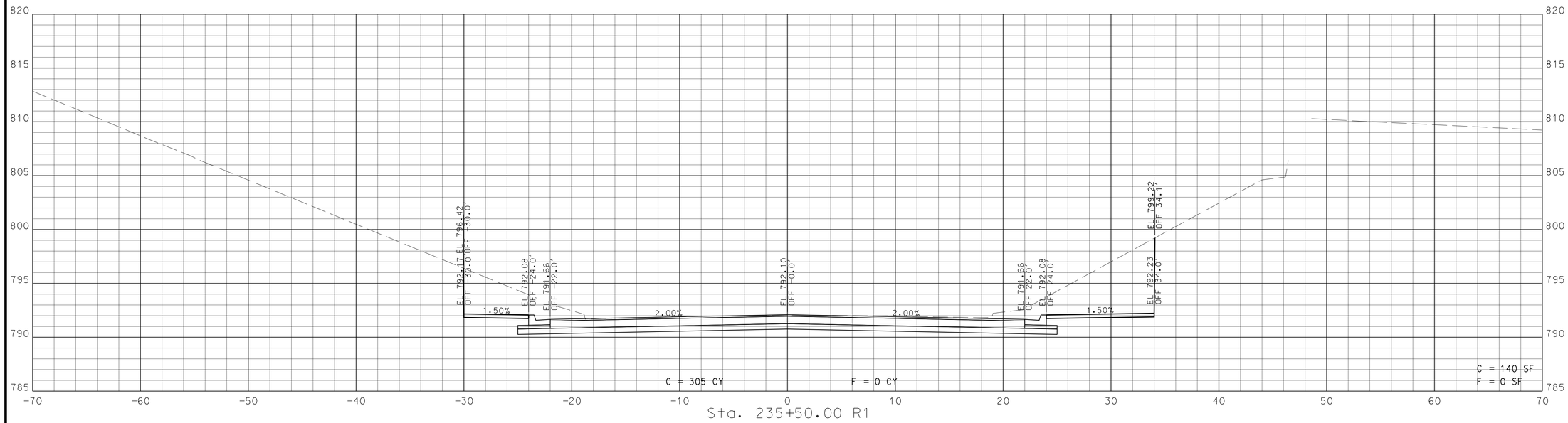
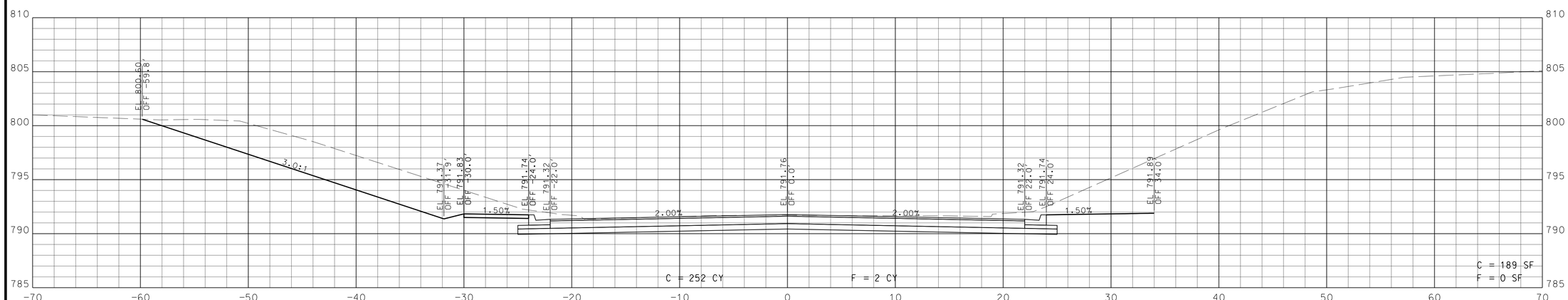


Sta. 235+50.00 R1



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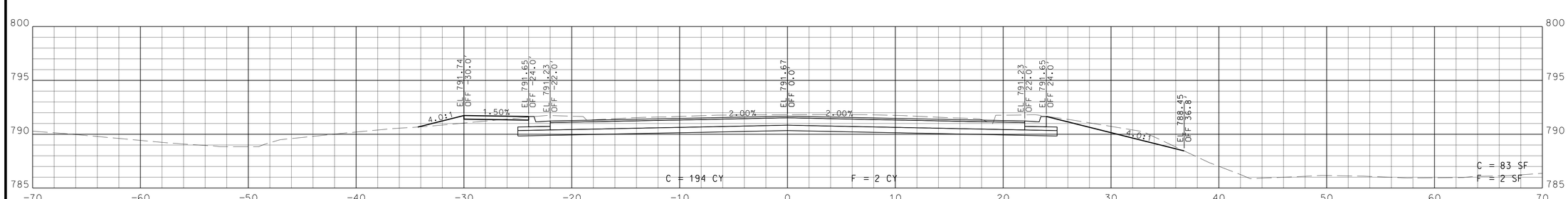

Sta. 234+50.00 R1

ROUTE AA STA. 234+50.00 R1 TO STA. 235+50.00 R1

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	9
COUNTY	PLATTE
JOB NO.	J4I3297
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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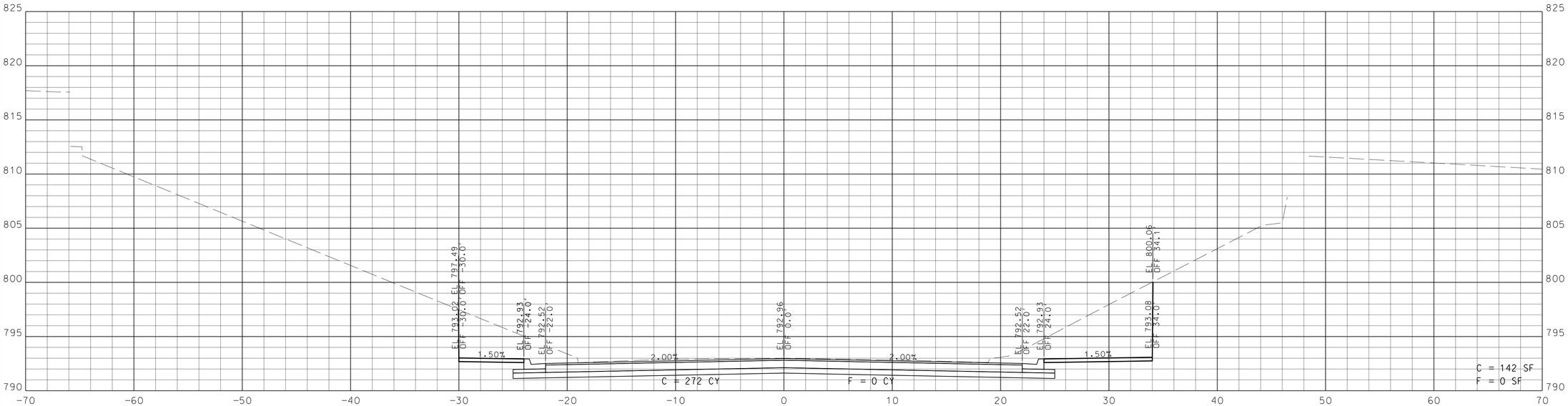

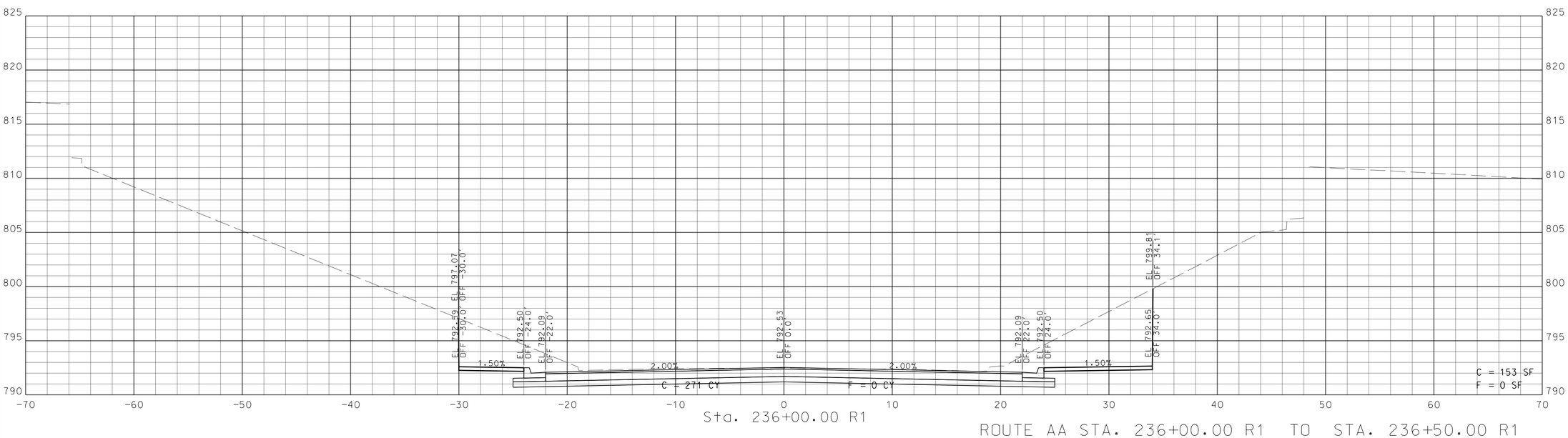

ROUTE AA STA. 236+00.00 R1 TO STA. 236+50.00 R1

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	10
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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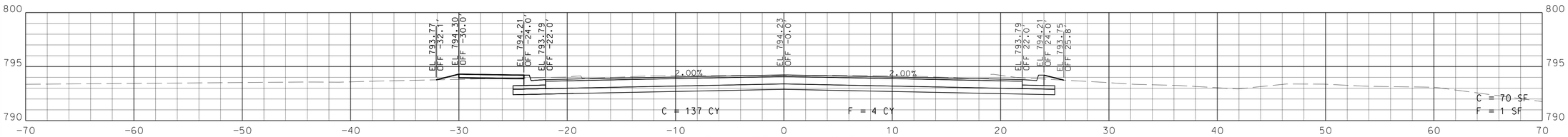
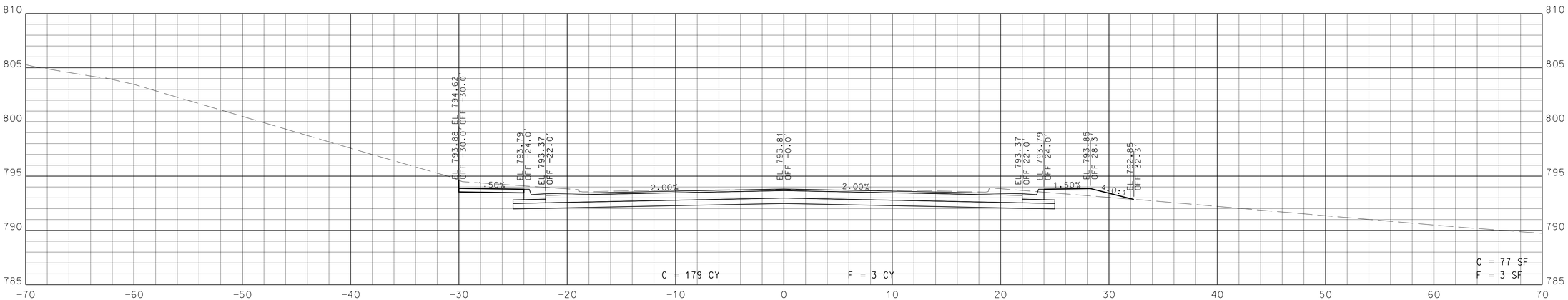


Sta. 238+00.00 R1



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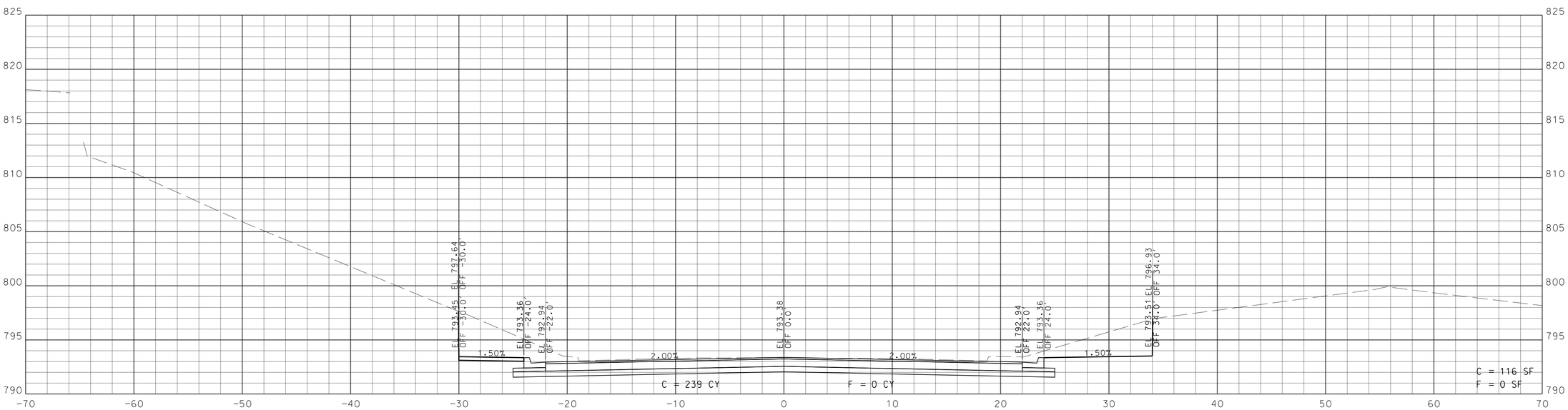

Sta. 237+00.00 R1

ROUTE AA STA. 237+00.00 R1 TO STA. 238+00.00 R1

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	11
COUNTY	PLATTE
JOB NO.	J4I3297
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)

TREKK DESIGN GROUP, LLC
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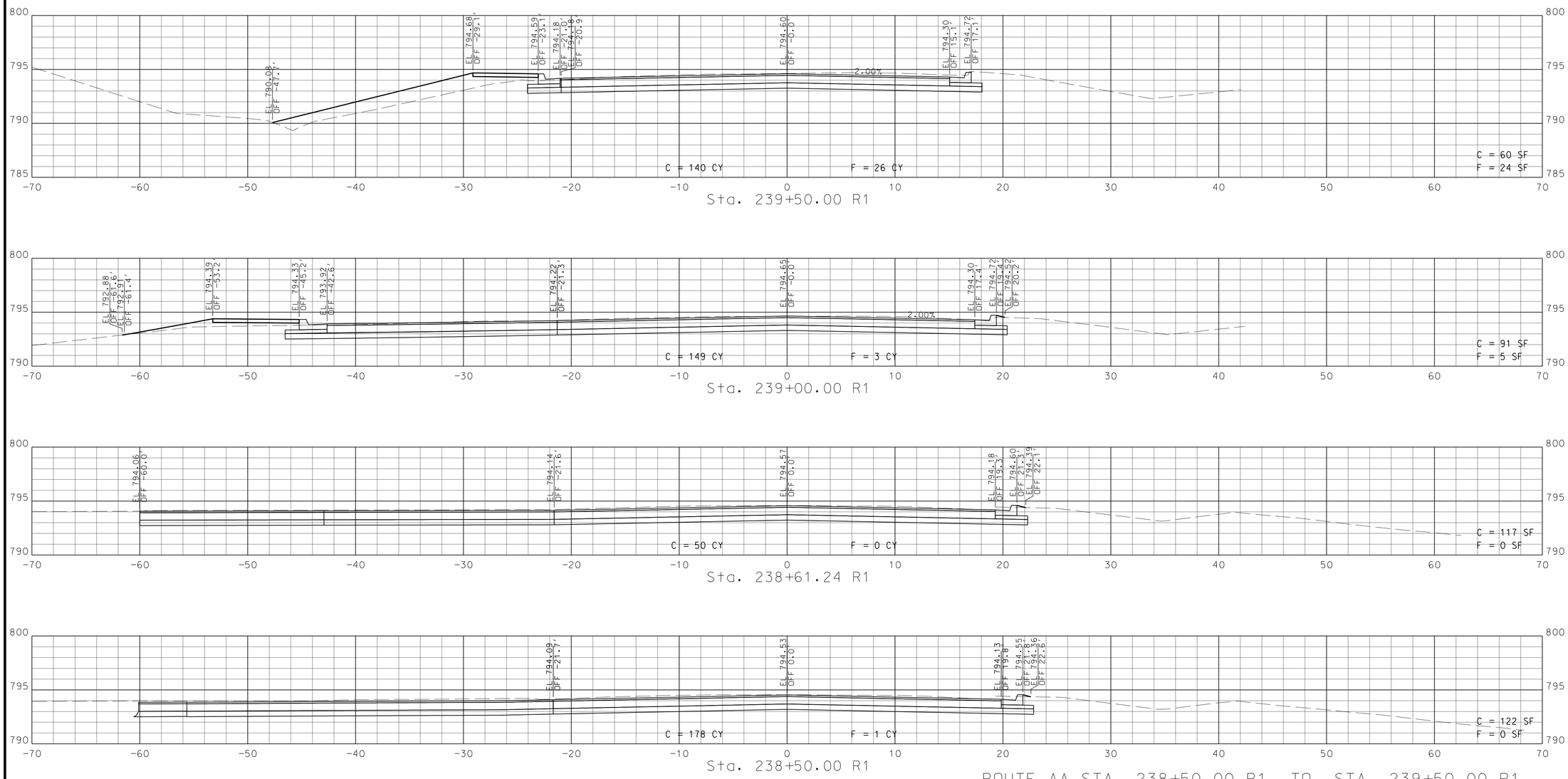

ROUTE AA STA. 238+50.00 R1 TO STA. 239+50.00 R1

DATE PREPARED
6/26/2020

ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
KC	12

COUNTY
PLATTE

JOB NO.
J4I3297

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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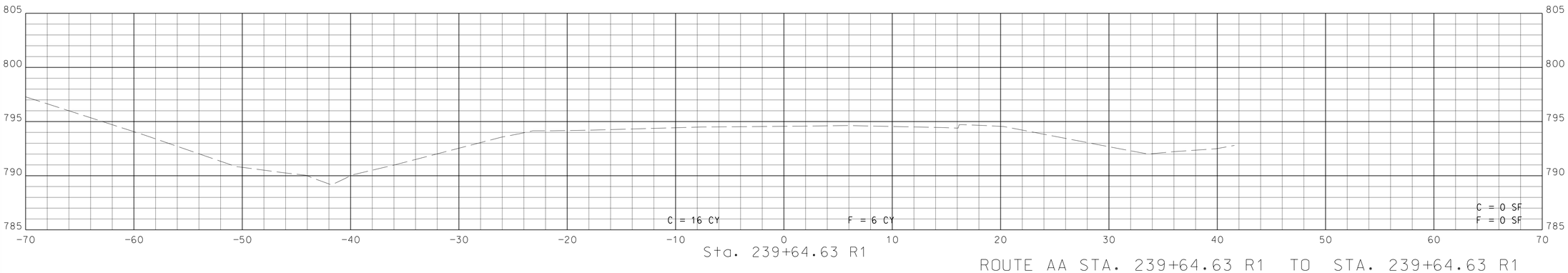

ROUTE AA STA. 239+64.63 R1 TO STA. 239+64.63 R1

DATE PREPARED	6/26/2020
ROUTE	I-29
STATE	MO
DISTRICT	KC
SHEET NO.	13
COUNTY	PLATTE
JOB NO.	J4I3297
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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