

DESIGN DESIGNATION (I-70)

A.A.D.T. - 2024 = 122700
 A.A.D.T. - 2044 = 135571
 D.H.V. = 7%
 T = 14.9%
 V = 55 M.P.H.
 D = 49% WB, 51% EB

FUNCTIONAL CLASSIFICATION - INTERSTATE

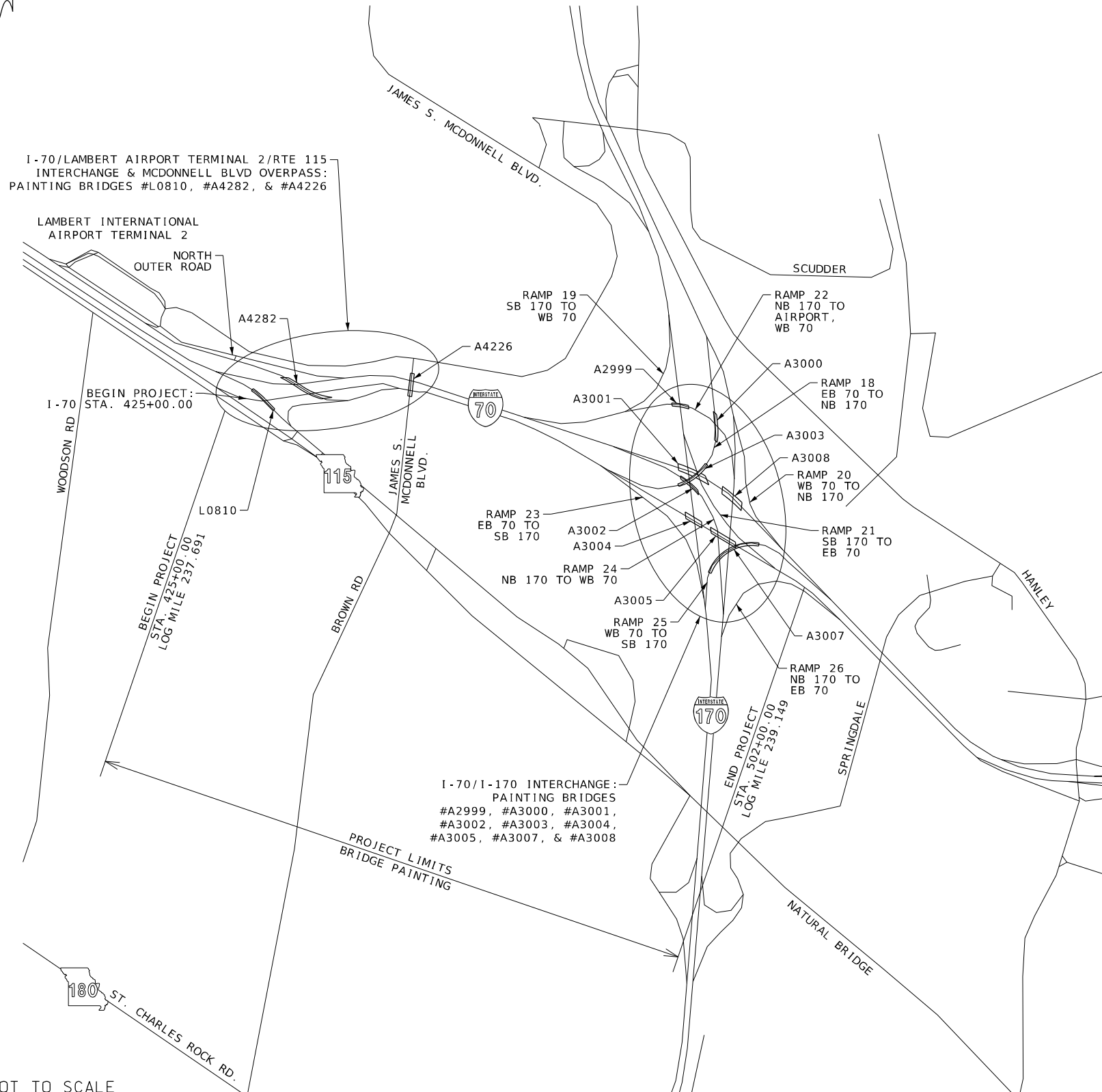
NO NEW R/W TO BE ACQUIRED FOR THIS PROJECT.

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		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
OVERHEAD POWER		
UNDERGROUND POWER		
GAS		
WATER		
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

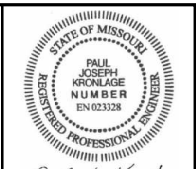
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 PLANS FOR
 STATE HIGHWAY I-70
 ST. LOUIS COUNTY



NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
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SUMMARY OF QUANTITIES (QU) (2 SHEETS)	3
PLAN (PL) (7 SHEETS)	4-10
TRAFFIC CONTROL (TC) (23 SHEETS)	11-33



Paul J. Kronlage
 08/09/2024 4:57:09 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED: 8/6/2024
 ROUTE: I-70
 STATE: MO
 DISTRICT: SL
 SHEET NO.: 1

COUNTY: ST. LOUIS
 JOB NO.: J613571
 CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 425+00.00
END OF PROJECT	STA. 502+00.00
APPARENT LENGTH	7700 FEET

I-70 EQUATIONS:

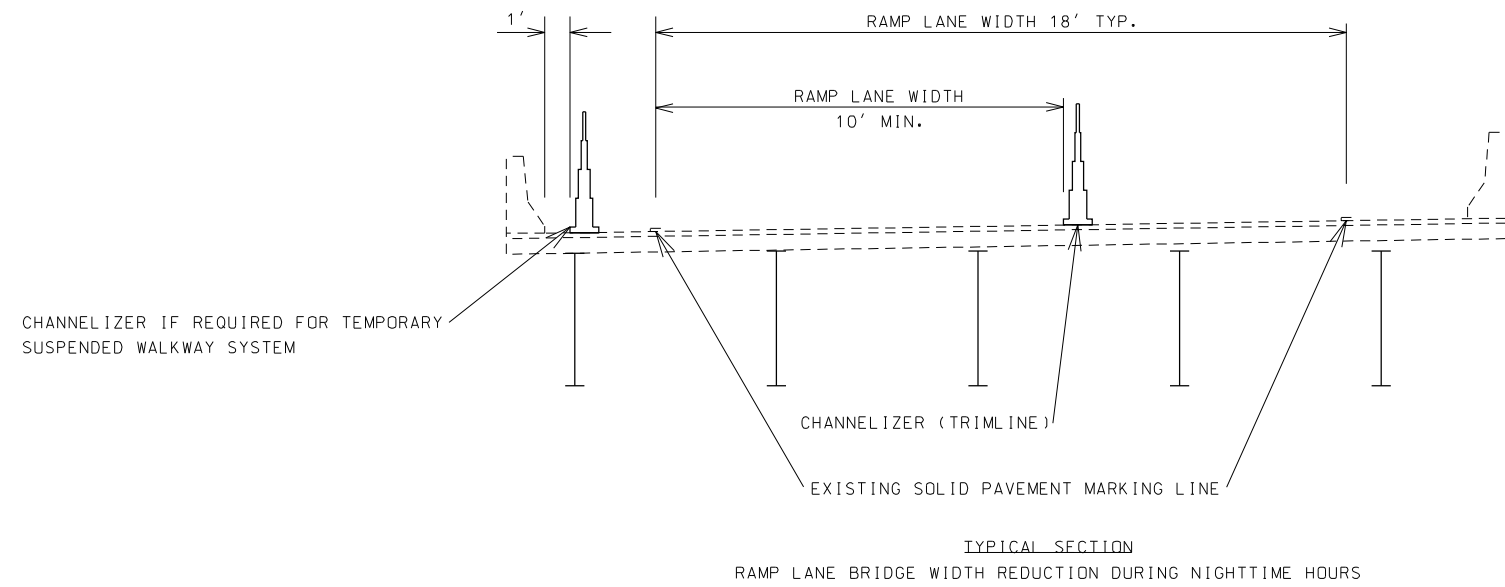
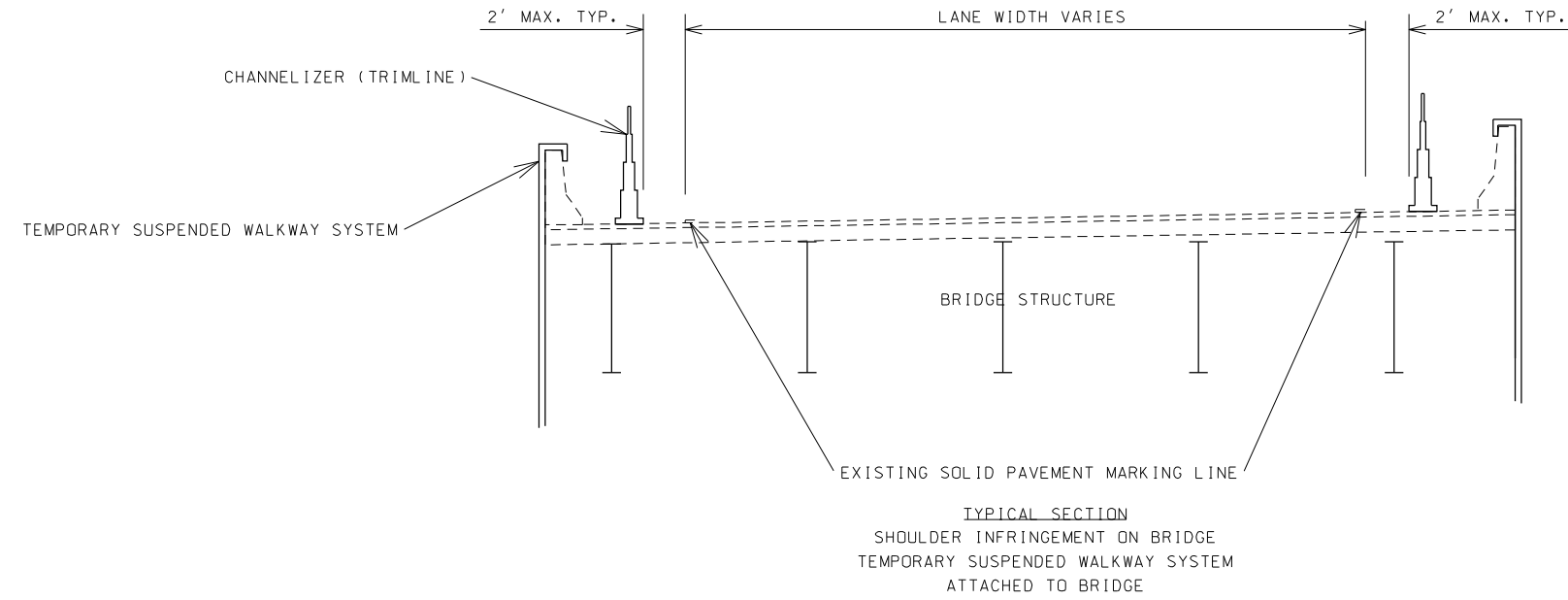
EQUATION 1:	STA. 410+16.80 BK = 408+69.71 AH
EQUATION 2:	STA. 443+14.34 BK = 442+47.96 AH
EQUATION 3:	STA. 494+39.04 BK = 495+92.70 AH
EQUATION 4:	STA. 508+06.85 BK = 510+77.13 AH

STATE LENGTH	1.458 MILES
FEDERAL LENGTH	1.458 MILES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
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TYPICAL SECTIONS
SHEET 1 OF 1



Paul J. Kronlage
 08/09/2024 4:57:51 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
8/6/2024

ROUTE	STATE
1 - 70	MO

DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J613571

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MOBILIZATION	1 LUMP SUM
CONTRACTOR FURNISHED SURVEY AND STAKING	1 LUMP SUM
TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING	1 LUMP SUM



Paul J. Kronlage
 08/09/2024 4:58:16 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/6/2024

ROUTE STATE
 I - 70 MO

DISTRICT SHEET NO.
 SL 3

COUNTY
 ST. LOUIS

JOB NO.
 J613571

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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SUMMARY OF QUANTITIES
 SHEET 1 OF 2

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Paul J. Kronlage
08/09/2024 5:00:02 AM
Paul J. Kronlage - Civil
MO PE - 023328

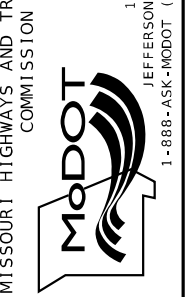
DATE PREPARED
8/6/2024

ROUTE **1-70** STATE **MO**
DISTRICT **SL** SHEET NO. **3**
COUNTY **ST. LOUIS**

JOB NO. **J613571**
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

Table with 2 columns: DESCRIPTION, DATE



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

Main table containing columns for SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., and DESCRIPTION. Includes categories like WARNING SIGNS, GUIDE SIGNS, REGULATORY SIGNS, and MISCELLANEOUS SIGNS.

Main table containing columns for SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., and DESCRIPTION. Includes categories like GORE EXIT, END ROAD WORK, PILOT CAR FOLLOW ME, and various REGULATORY SIGNS.

Table with columns: ITEM NUMBER, TOTAL QTY, and DESCRIPTION. Lists various traffic control items like IMPACT ATTENUATOR, TRUCK MOUNTED ATTENUATOR, and TEMPORARY TRAFFIC BARRIER.

TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01, TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE ON FIELD CONDITIONS. TEMPORARY TRAFFIC CONTROL SHOULD FOLLOW MUTCD STANDARDS. ALL WARNING SIGNS SHALL HAVE FLORESCENT SHEETING.

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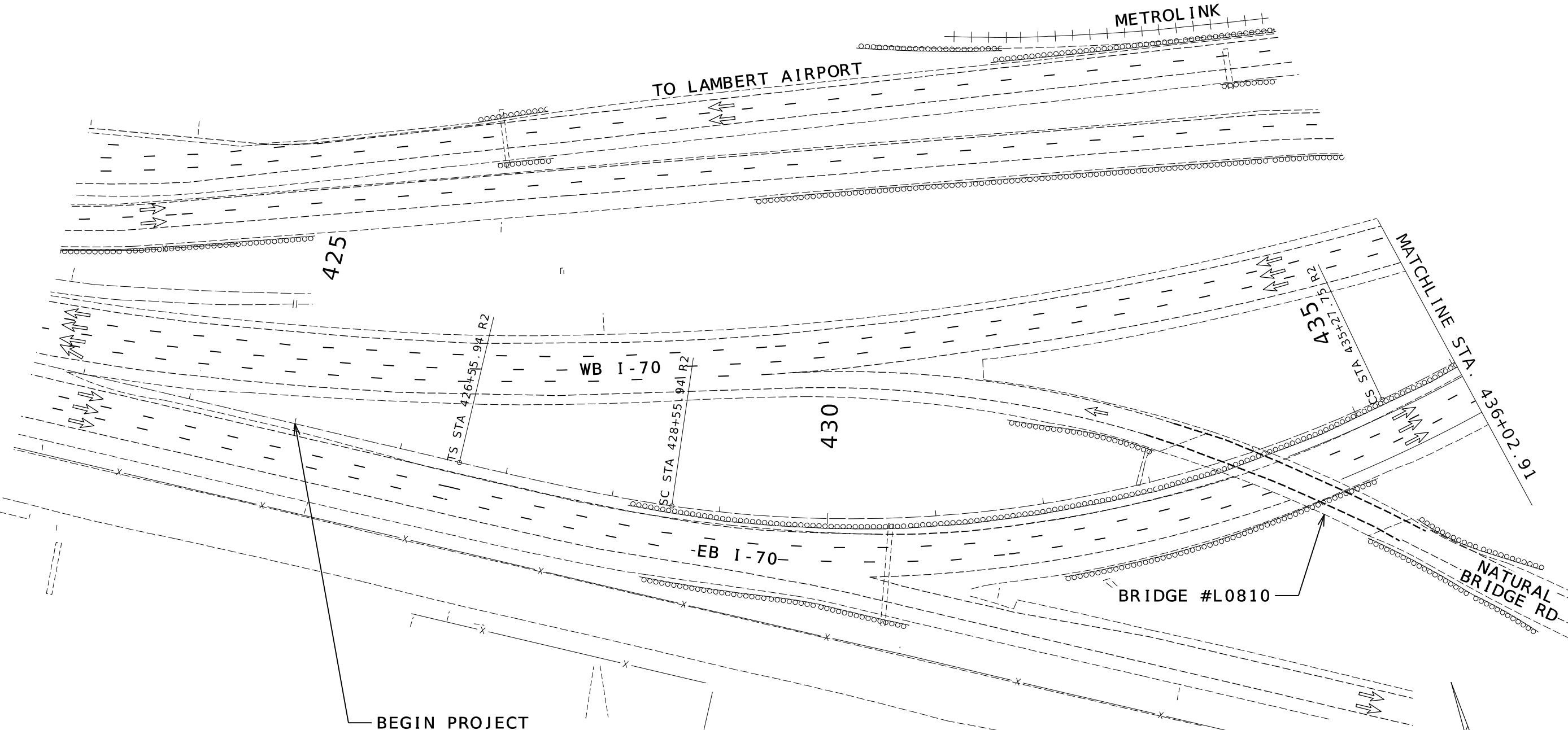
SUMMARY OF QUANTITIES
SHEET 2 OF 2

- * NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING OR COVERING SIGNS OR DEVICES
- ** SEE TRAFFIC CONTROL PLANS FOR SPECIAL SIGN DETAILS.
- *** NOT INCLUDED IN LUMP SUM TEMPORARY TRAFFIC CONTROL

NOTES:

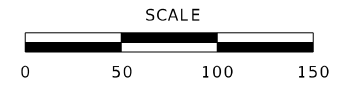
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

ALIGNMENTS SHOWN BASED ON INDEPENDENT GRID.



**BEGIN PROJECT
I-70 STA. 425+00.00**

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**PLAN SHEET
1 OF 7**



Paul J. Kronlage
 08/09/2024 11:32:53 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE I-70	STATE MO
DISTRICT SL	SHEET NO. 4
COUNTY ST. LOUIS	
JOB NO. J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Paul J. Kronlage
08/09/2024 5:01:38 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/6/2024

ROUTE STATE
I-70 MO

DISTRICT SHEET NO.
SL 5

COUNTY
ST. LOUIS

JOB NO.
J613571

CONTRACT ID.

PROJECT NO.

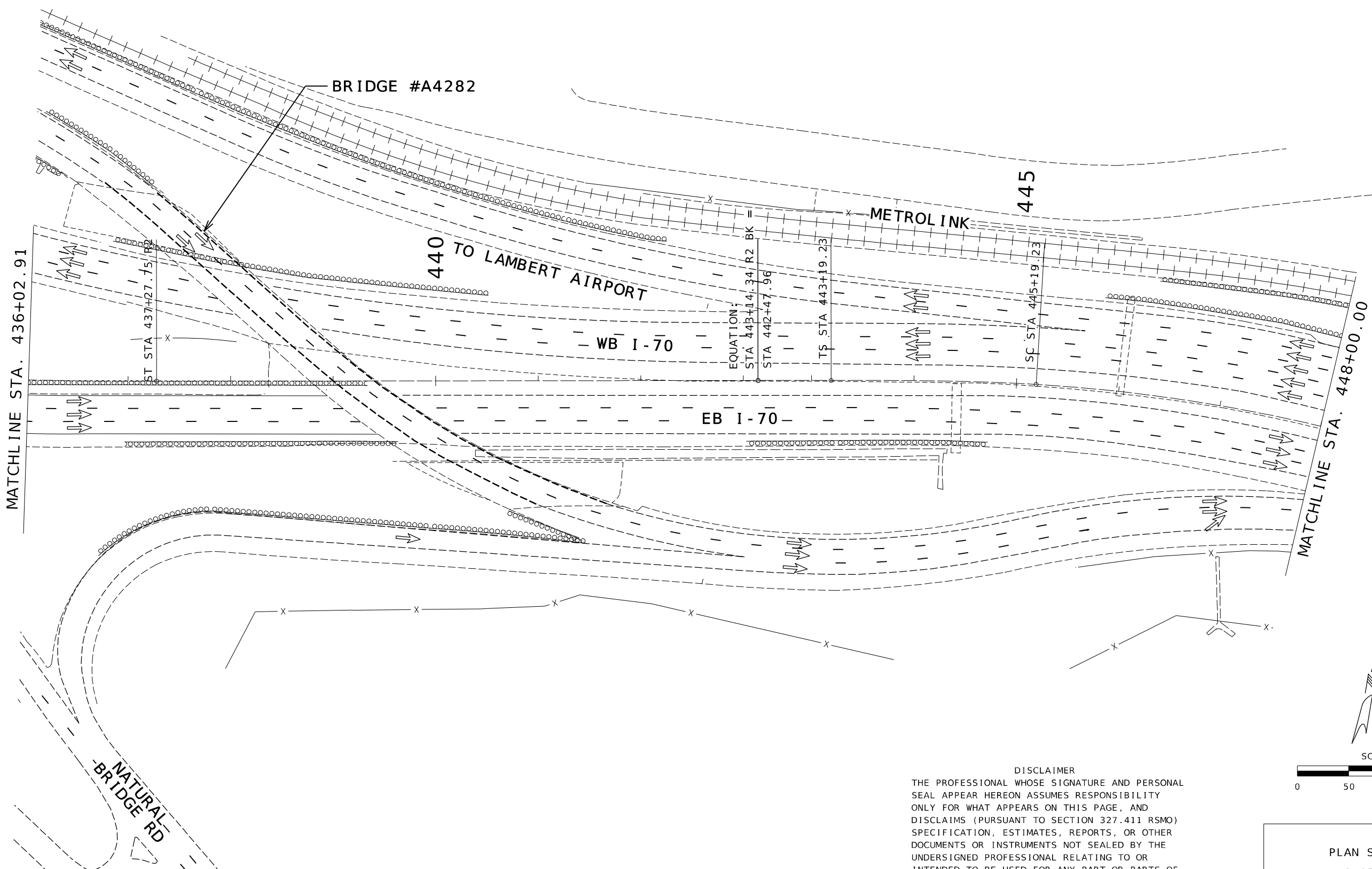
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

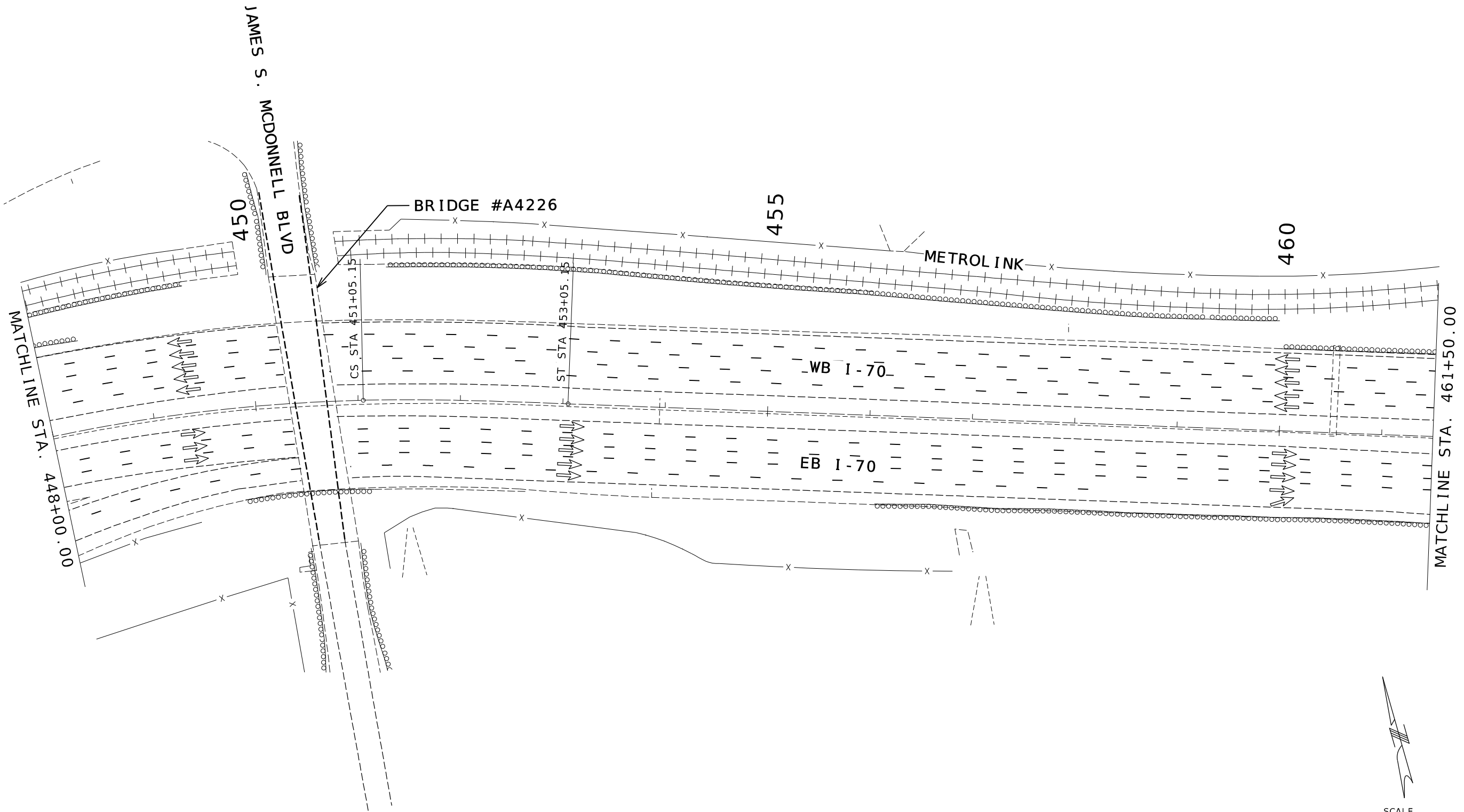
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PLAN SHEET
2 OF 7



Paul J. Kronlage
 08/09/2024 5:02:00 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/6/2024

ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
 ST. LOUIS

JOB NO.
 J613571

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

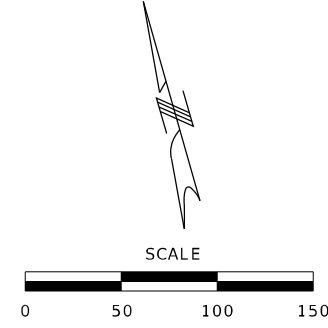
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

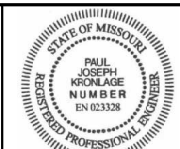
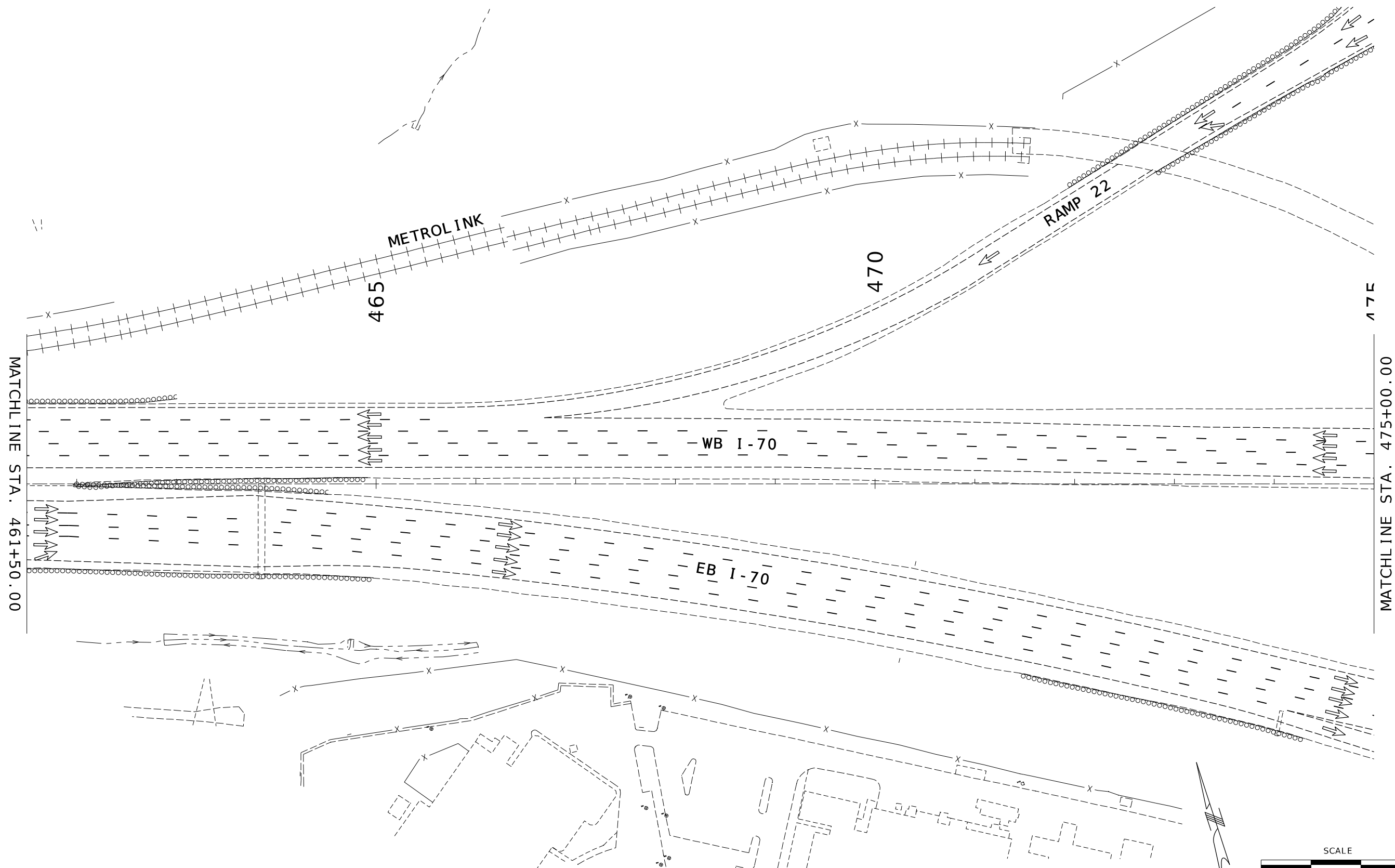
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PLAN SHEET
 3 OF 7



Paul J. Kronlage
 08/09/2024 5:02:19 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED	
8/6/2024	
ROUTE	STATE
I - 70	MO
DISTRICT	SHEET NO.
SL	7
COUNTY	
ST. LOUIS	
JOB NO.	
J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

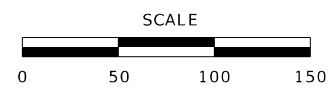
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

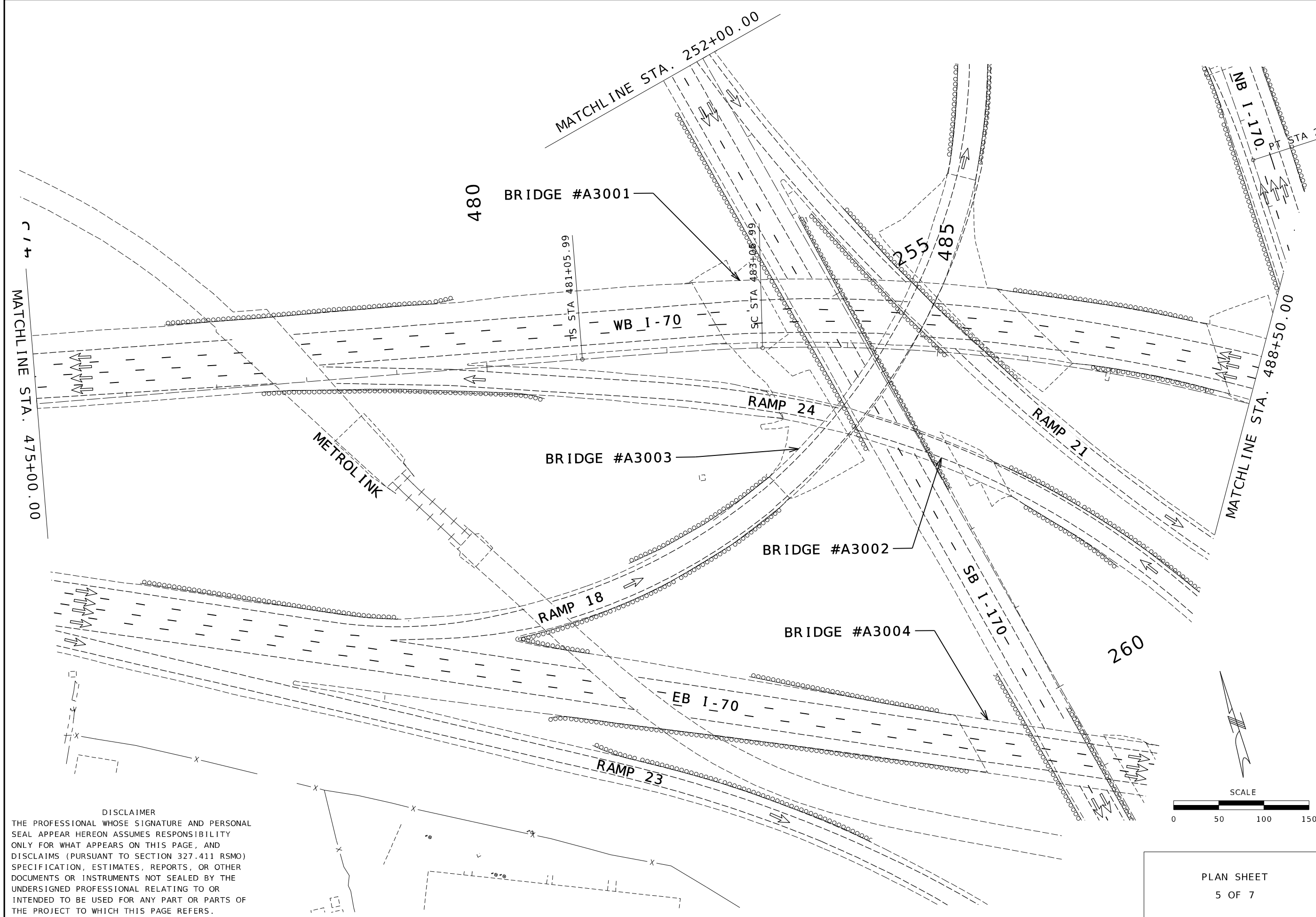
105 WEST CAPITOL
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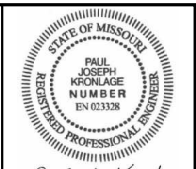


PLAN SHEET
 4 OF 7



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PLAN SHEET
 5 OF 7



Paul J. Kronlage
 08/09/2024 5:02:38 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

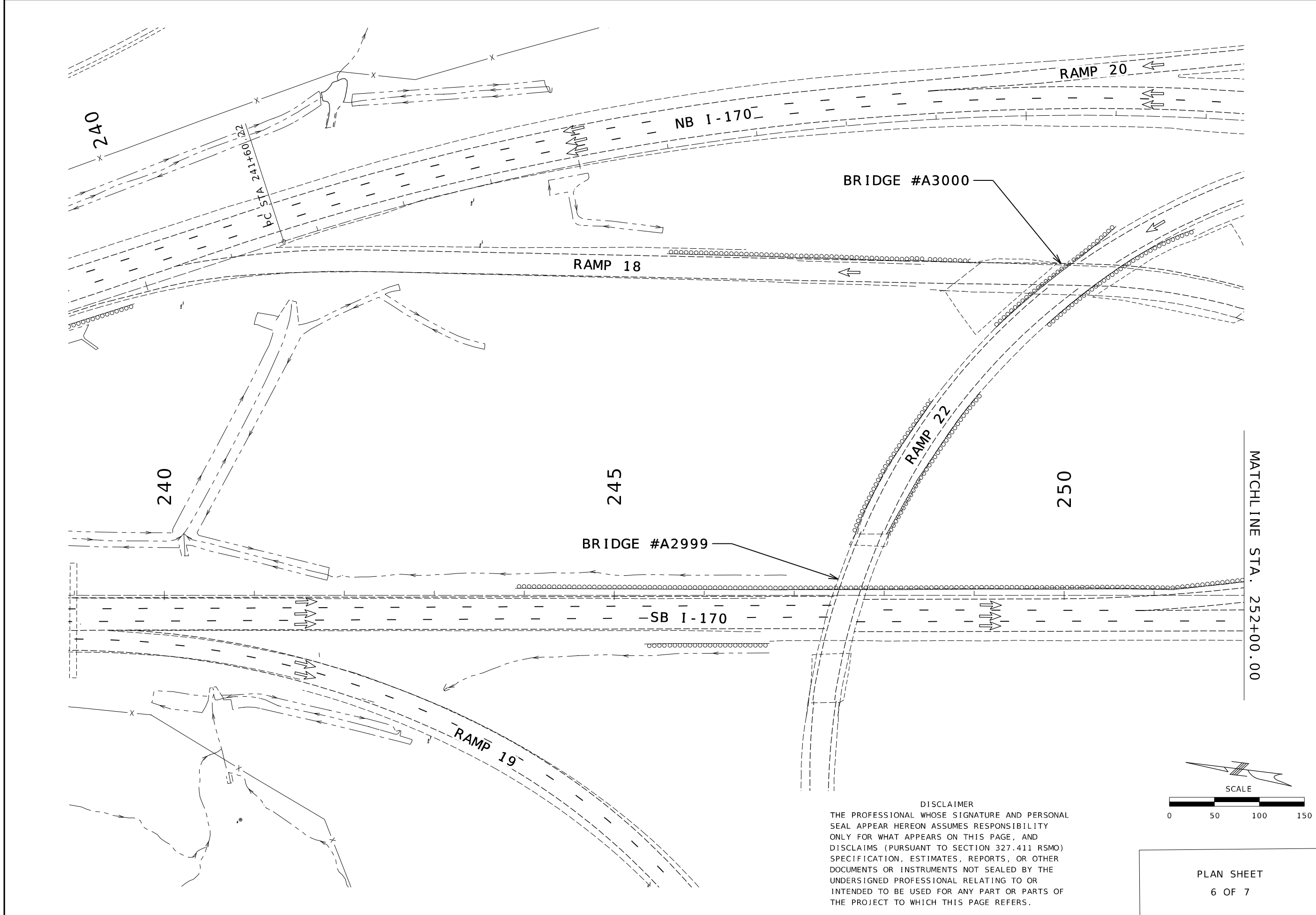
DATE PREPARED 8/6/2024	
ROUTE I-70	STATE MO
DISTRICT SL	SHEET NO. 8
COUNTY ST. LOUIS	
JOB NO. J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

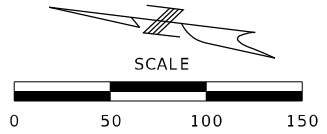
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PLAN SHEET
 6 OF 7



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 MO PE - 023328

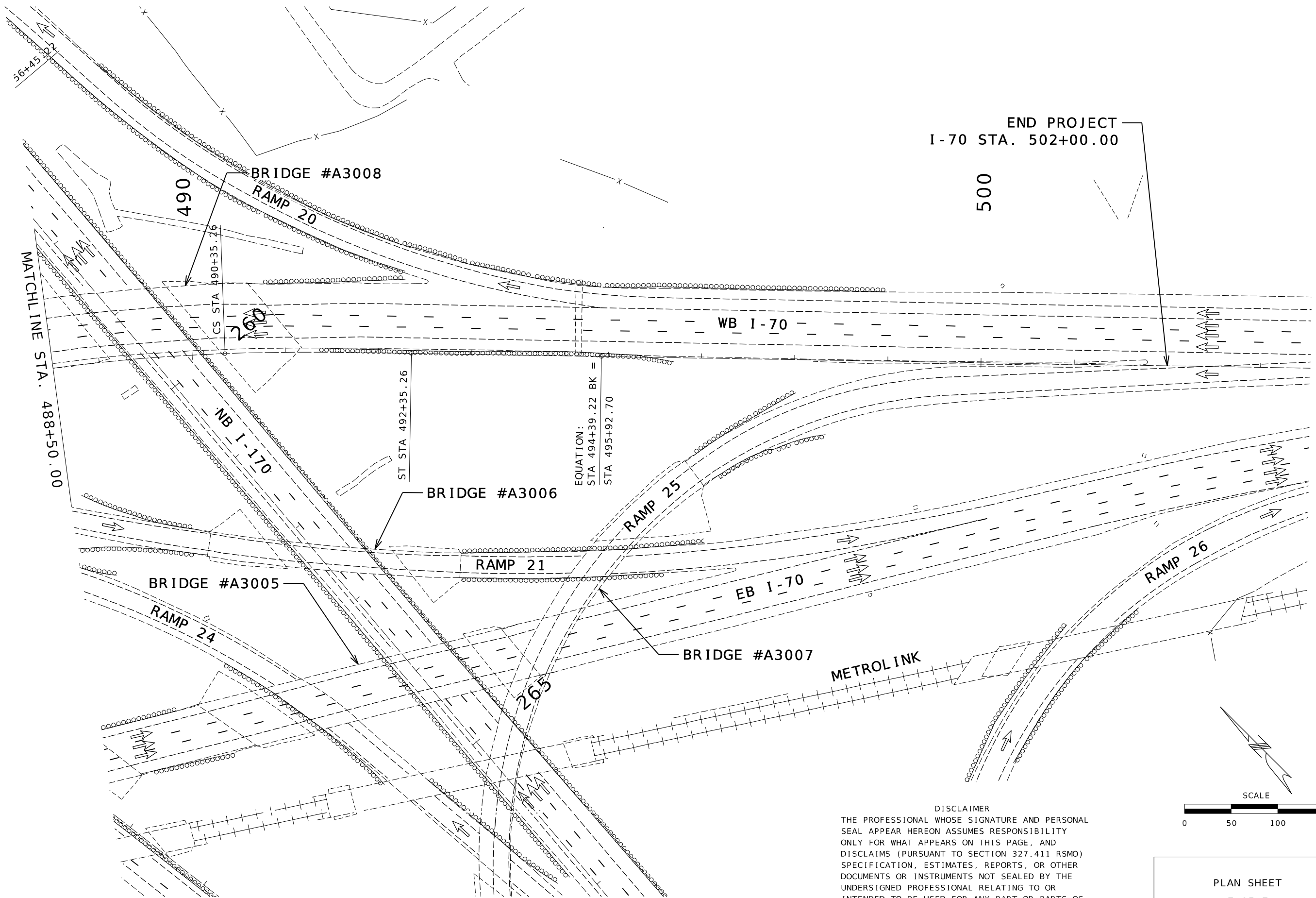
DATE PREPARED 8/6/2024	
ROUTE I - 70	STATE MO
DISTRICT SL	SHEET NO. 9
COUNTY ST. LOUIS	
JOB NO. J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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END PROJECT
I-70 STA. 502+00.00

500



Paul J. Kronlage
08/09/2024 5:03:10 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/6/2024

ROUTE STATE
I-70 MO

DISTRICT SHEET NO.
SL 10

COUNTY
ST. LOUIS

JOB NO.
J613571

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

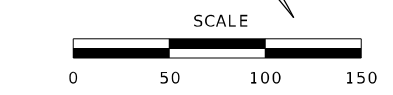
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

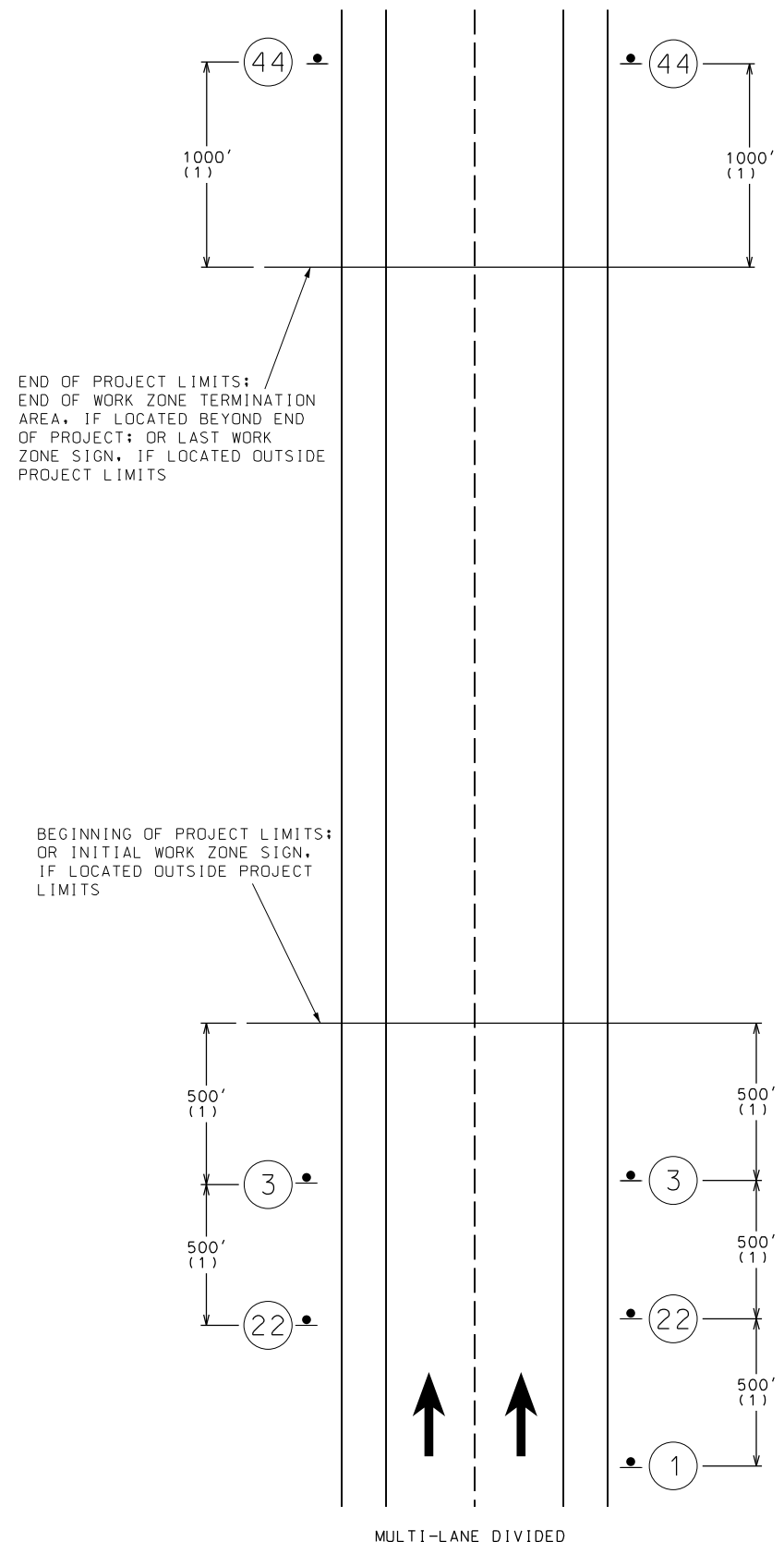
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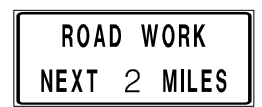


PLAN SHEET
7 OF 7

BEGIN/END OF PROJECT SIGNING



CONST-5-96
1
(2) (3)



G020-1
22



CONST-8
3
(4)



G020-2
44

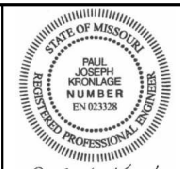
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GENERAL NOTES:

- SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.
- OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.
- ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA. ADDITIONAL SIGNING MAY BE NEEDED.
- (2) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN G020-1.
- (3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT LIGHTS OF WAY FOR A EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.
- (4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (5) NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISITNG BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.

JOB NOTES:

APPLIES TO I-70 AND I-170



Paul J. Kronlage
08/09/2024 11:33:11 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED 8/9/2024	
ROUTE I-70	STATE MO
DISTRICT SL	SHEET NO. 11
COUNTY ST. LOUIS	
JOB NO. J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

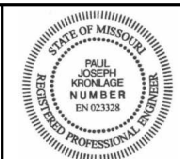
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Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

TRAFFIC CONTROL PLAN
STANDARD DETAILS
SHEET 1 OF 10

NOT TO SCALE

FLAGGER CONTROL - LANE CLOSURE ON A TWO-LANE HIGHWAY NEAR INTERSECTIONS

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Paul J. Kronlage
 08/09/2024 5:16:31 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

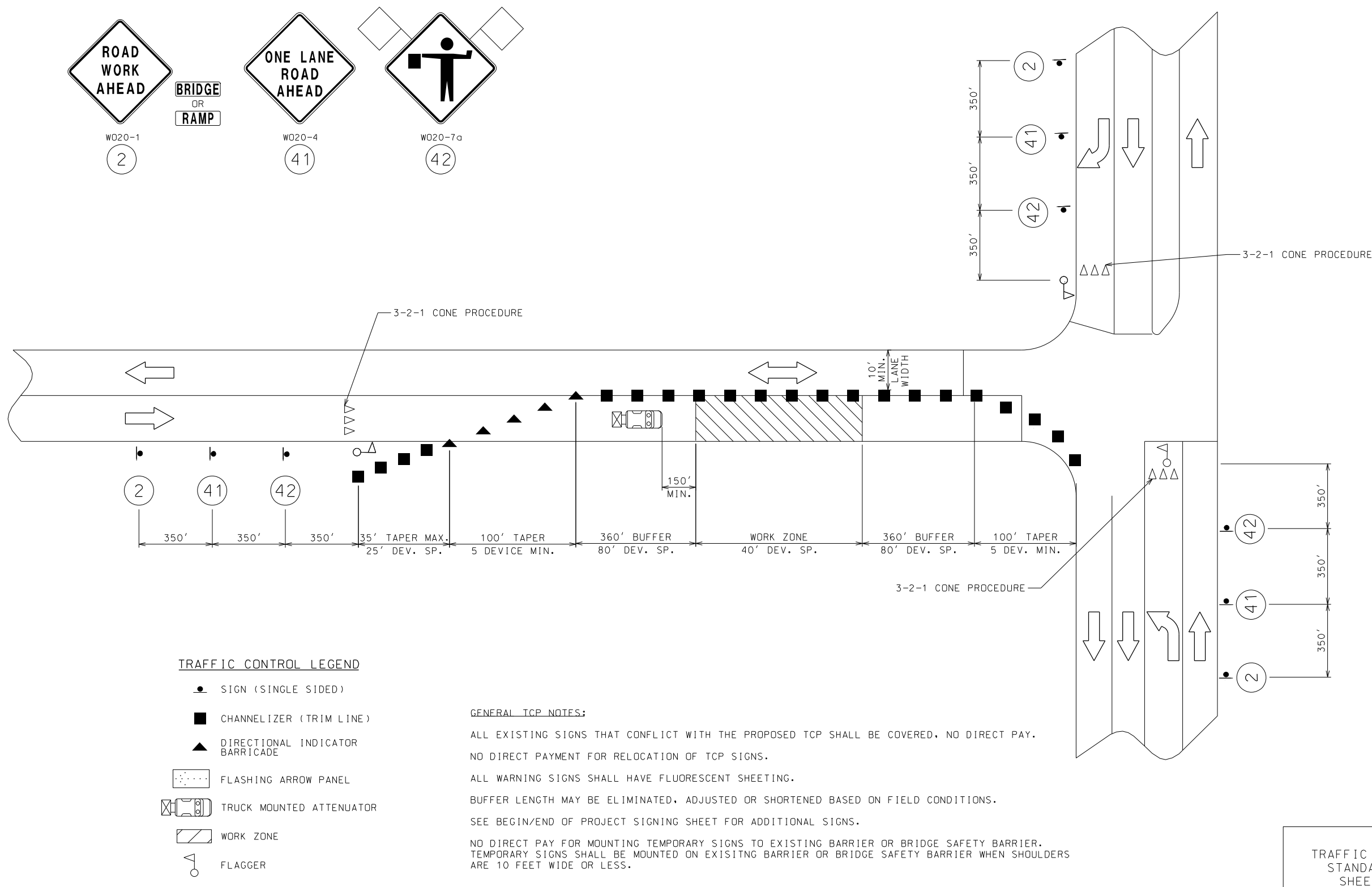
DATE PREPARED	
8/7/2024	
ROUTE	STATE
I - 70	MO
DISTRICT	SHEET NO.
SL	12
COUNTY	
ST. LOUIS	
JOB NO.	
J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE
- ◻ FLASHING ARROW PANEL
- ☒ TRUCK MOUNTED ATTENUATOR
- ▨ WORK ZONE
- FLAGGER

GENERAL TCP NOTES:

ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED, NO DIRECT PAY.
 NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS.
 ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
 BUFFER LENGTH MAY BE ELIMINATED, ADJUSTED OR SHORTENED BASED ON FIELD CONDITIONS.
 SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.
 NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER.
 TEMPORARY SIGNS SHALL BE MOUNTED ON EXISTING BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.

NOT TO SCALE

TRAFFIC CONTROL PLAN
 STANDARD DETAILS
 SHEET 2 OF 10

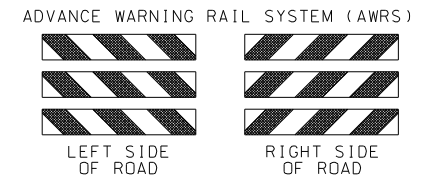
SHOULDER WORK ON DIVIDED HIGHWAYS

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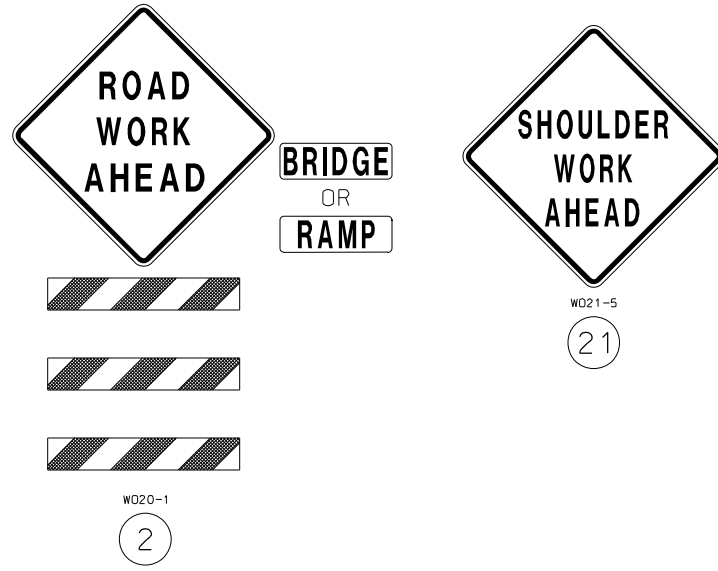
Paul J. Kronlage
 08/09/2024 5:16:58 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/7/2024
 ROUTE
 I - 70 STATE
 MO
 DISTRICT
 SL SHEET NO.
 13
 COUNTY
 ST. LOUIS
 JOB NO.
 J613571
 CONTRACT ID.



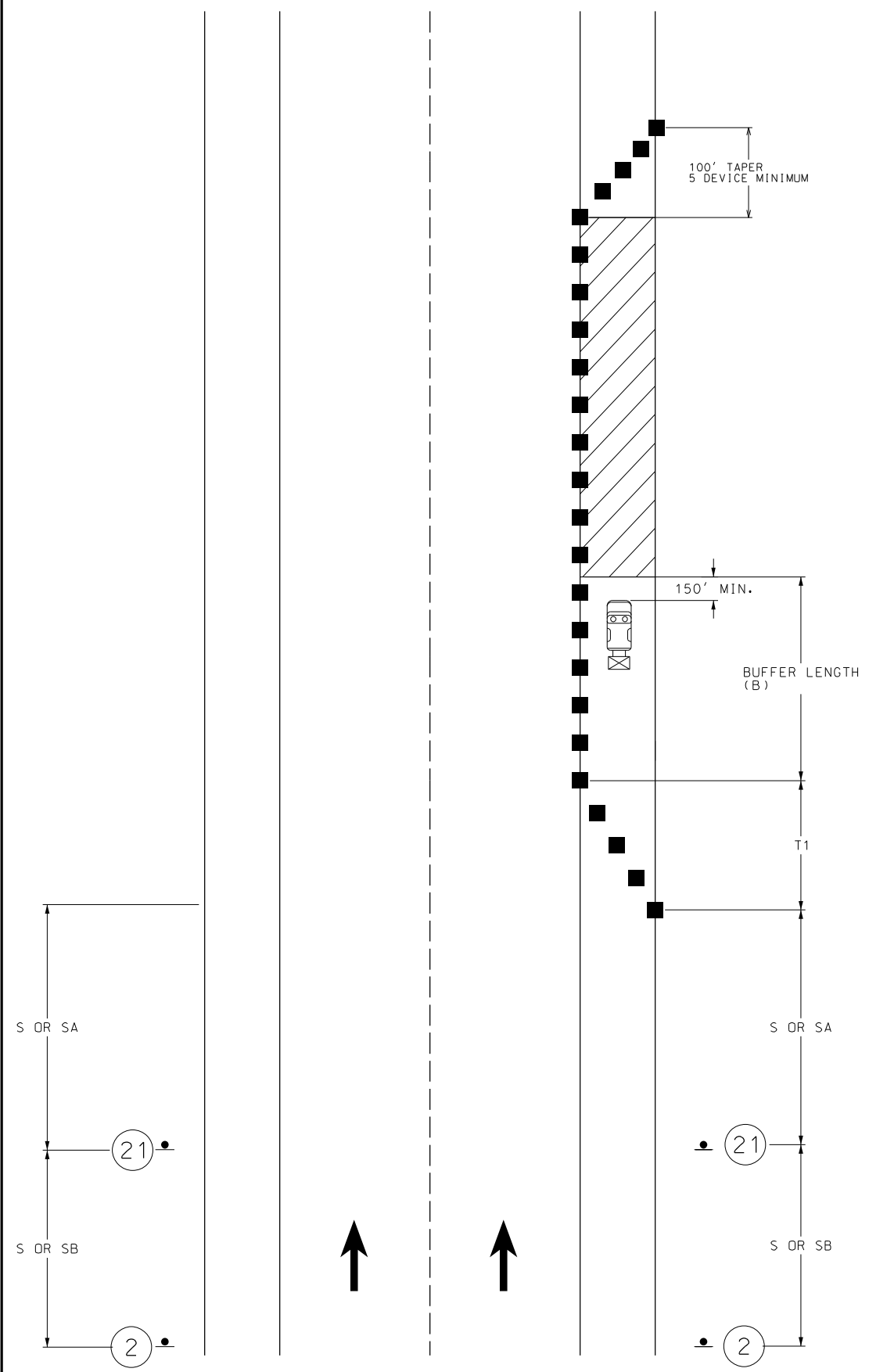
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE



SPEED Normal Posted (mph)	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)		Tapers	Buffer/ Work Areas
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

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



GENERAL TCP NOTES:

NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISTING BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.

TRAFFIC CONTROL PLAN
 STANDARD DETAILS
 SHEET 3 OF 10

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

NOT TO SCALE

STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY



Paul J. Kronlage
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/7/2024
ROUTE
I-70 STATE
MO
DISTRICT
SL SHEET NO.
14
COUNTY
ST. LOUIS
JOB NO.
J613571
CONTRACT ID.
PROJECT NO.
BRIDGE NO.



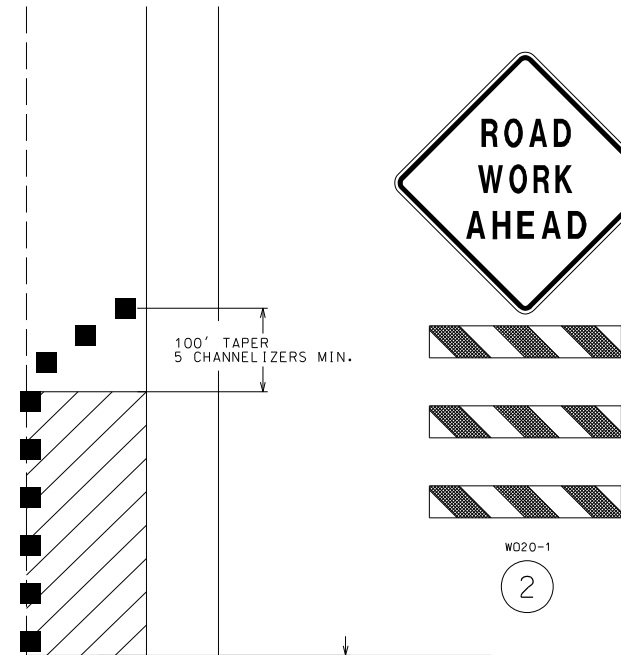
BRIDGE
OR
RAMP



CENTER LANE
OR
LEFT LANE



CENTER
OR
LEFT



SPEED (mph)	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)		Tapers	Buffer/ Work Areas
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

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

NOTES:

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

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

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

TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIER AND REVIEW EPG 616.8.34 (TA-34) LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER.

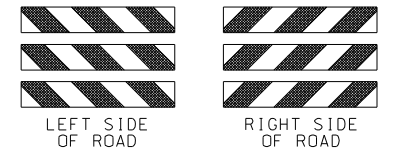
AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISTING BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.

TRAFFIC CONTROL LEGEND

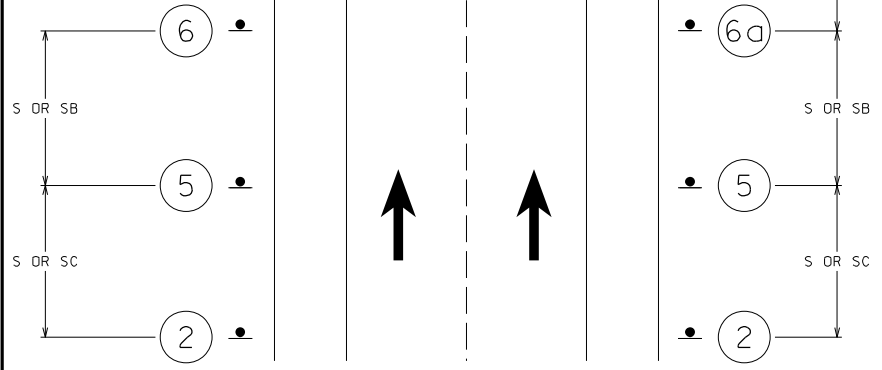
- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE
- ⬢ FLASHING ARROW PANEL
- ⊠ TRUCK MOUNTED ATTENUATOR
- ▨ WORK ZONE

ADVANCE WARNING RAIL SYSTEM (AWRS)



DISCLAIMER

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NOT TO SCALE

TRAFFIC CONTROL PLAN
STANDARD DETAILS
SHEET 4 OF 10

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK Moen
Civil Engineering Design

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

NOTES:
 REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.
 PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICAL.
 TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
 ALTERNATE TEMPORARY TRAFFIC CONTROL SET-UP SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.
 A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.
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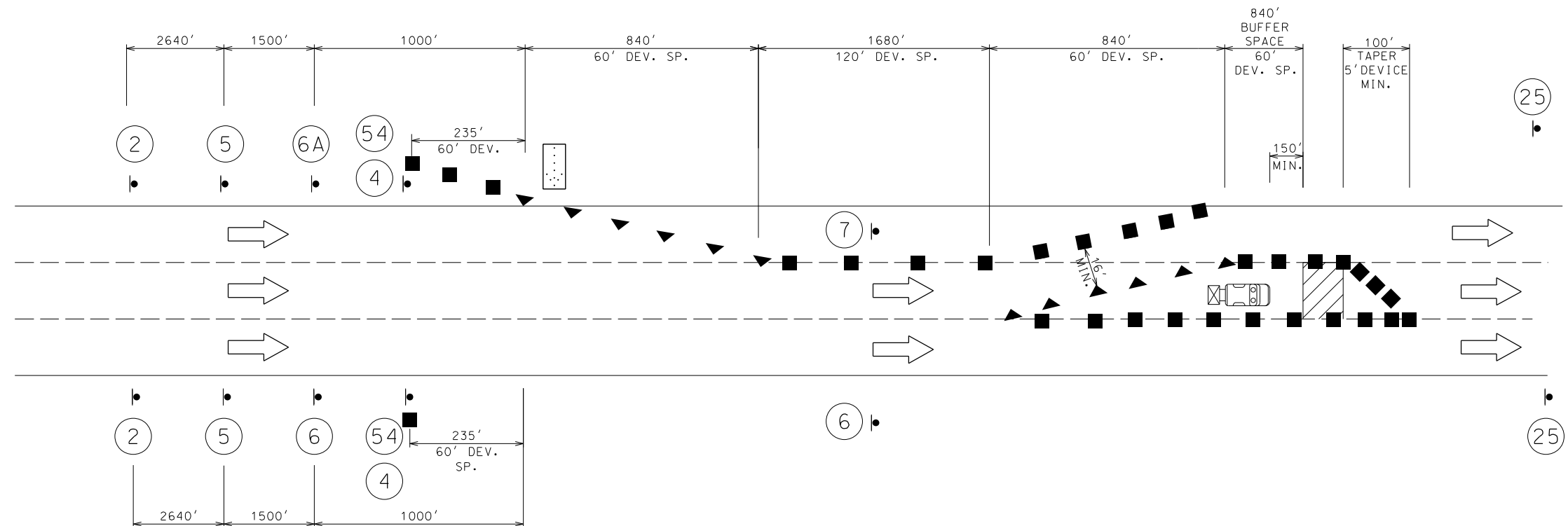
TYPICAL INTERIOR LANE CLOSURE ON A FREEWAY

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Paul J. Kronlage
 08/09/2024 5:19:00 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/7/2024
 ROUTE STATE
 I-70 MO
 DISTRICT SHEET NO.
 SL 15
 COUNTY
 ST. LOUIS
 JOB NO.
 J613571
 CONTRACT ID.



W020-1
 48"x48"

W020-5
 48"x48"

W020-6a
 48"x48"

W04-1aR OR W04-1aL
 48"x48"

G020-5aP
 36"x24"
 R2-1
 36"x48"

R2-1
 36"x48"

R2-1
 36"x48"

ADVANCE WARNING RAIL SYSTEM (AWRS)

LEFT SIDE
 OF ROAD

RIGHT SIDE
 OF ROAD

CENTER LANE OR RIGHT LANE CENTER OR RIGHT

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE

NOT TO SCALE

TRAFFIC CONTROL PLAN
 STANDARD DETAILS
 SHEET 5 OF 10

DESCRIPTION

DATE	
DATE	
DATE	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen

Civil Engineering Design

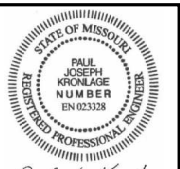
13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

NOTES:

- REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.
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- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
- ALTERNATE TEMPORARY TRAFFIC CONTROL SET-UP SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.
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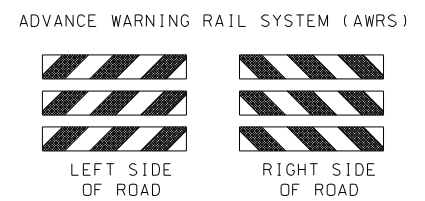
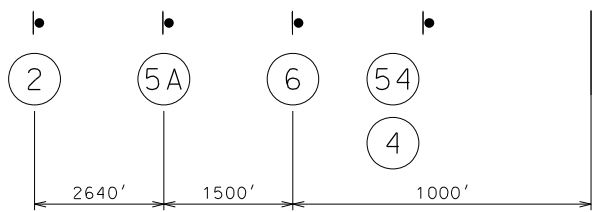
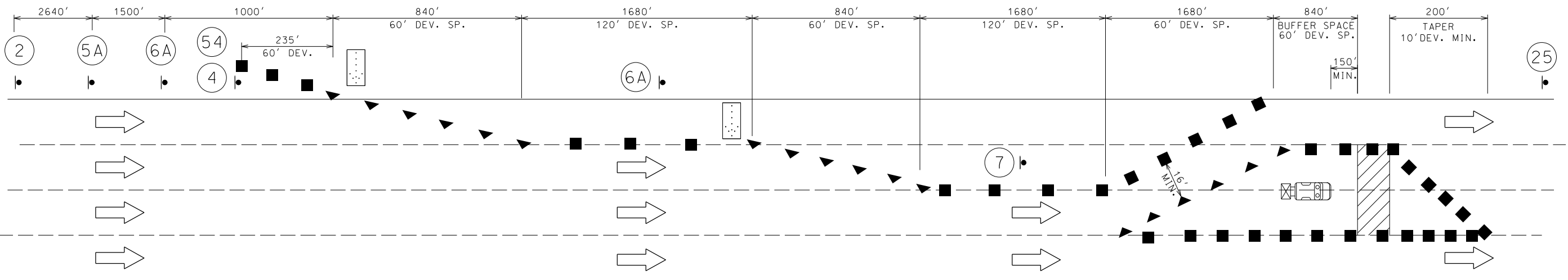
TYPICAL TWO INTERIOR LANE CLOSURE ON A FREEWAY

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Paul J. Kronlage
 08/09/2024 5:19:38 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED 8/7/2024	
ROUTE I-70	STATE MO
DISTRICT SL	SHEET NO. 16
COUNTY ST. LOUIS	
JOB NO. J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE
- ⋯ FLASHING ARROW PANEL
- ☒ TRUCK MOUNTED ATTENUATOR
- ▨ WORK ZONE

NOT TO SCALE

2 5A 6 5A 6A 4 25 25 7

TRAFFIC CONTROL PLAN
 STANDARD DETAILS
 SHEET 6 OF 10

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

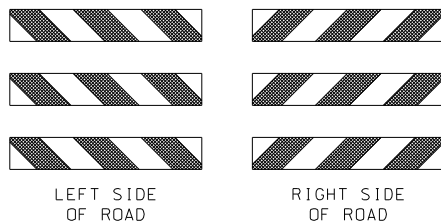
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
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 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250 St. Louis, MO 63021
 Phone 314-394-3100
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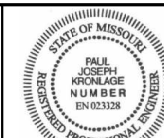
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE

ADVANCE WARNING RAIL SYSTEM



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Paul J. Kronlage
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/7/2024

ROUTE STATE
 I - 70 MO

DISTRICT SHEET NO.
 SL 17

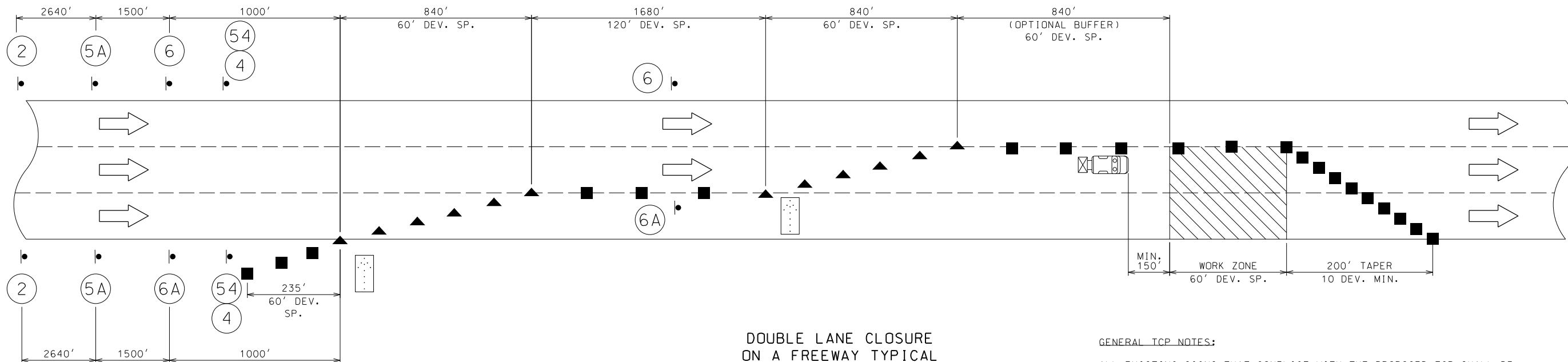
COUNTY
 ST. LOUIS

JOB NO.
 J613571

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



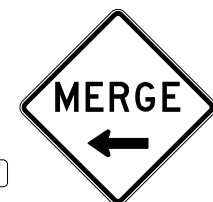
BRIDGE OR RAMP



CENTER OR LEFT



LEFT



OR



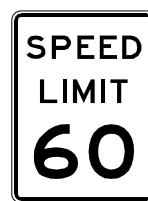
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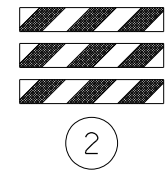
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4



25



5A

6

NOT TO SCALE

TRAFFIC CONTROL PLAN
 STANDARD DETAILS
 SHEET 7 OF 10

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

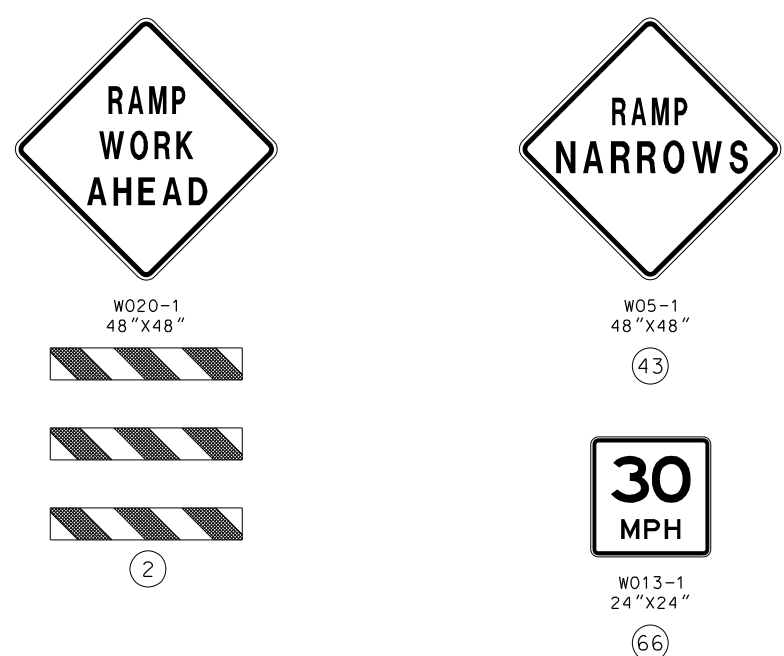
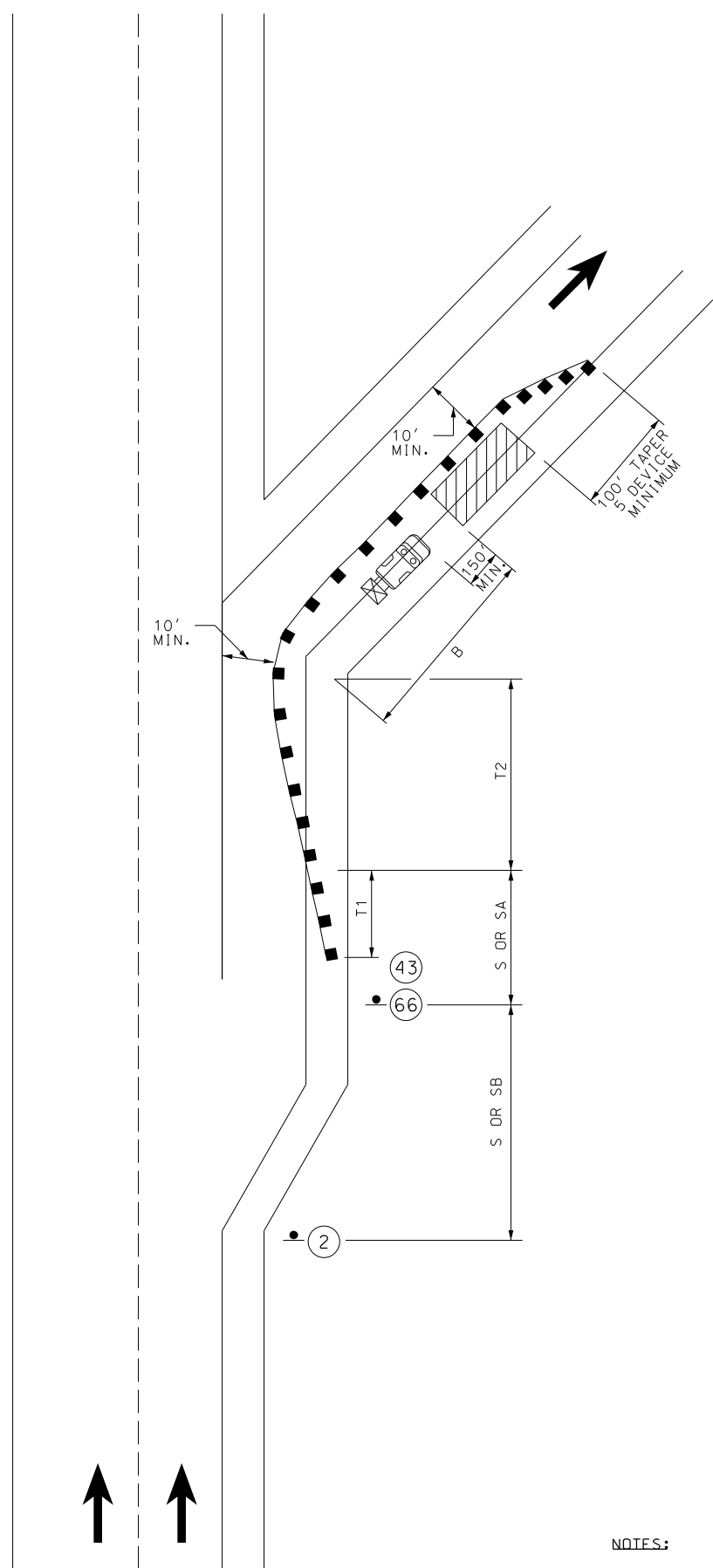
EFK Moen
 Civil Engineering Design

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

WORK IN THE VICINITY OF AN EXIT RAMP

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

1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET. 2. LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.



- TRAFFIC CONTROL LEGEND**
- SIGN (SINGLE SIDED)
 - CHANNELIZER (TRIM LINE)
 - ▲ DIRECTIONAL INDICATOR BARRICADE
 - ⬇️ FLASHING ARROW PANEL
 - 🚚 TRUCK MOUNTED ATTENUATOR
 - ▨ WORK ZONE

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NOTES:
 TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.
 NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISTING BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.

TRAFFIC CONTROL PLAN
 STANDARD DETAILS
 SHEET 8 OF 10



Paul J. Kronlage
 08/09/2024 5:20:55 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/7/2024
 ROUTE
 I - 70
 STATE
 MO
 DISTRICT
 SL
 SHEET NO.
 18
 COUNTY
 ST. LOUIS
 JOB NO.
 J613571
 CONTRACT ID.

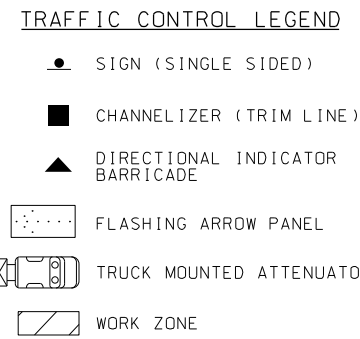
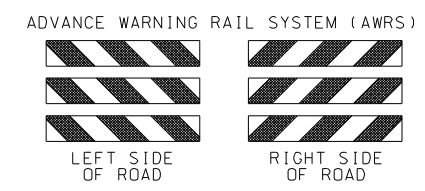
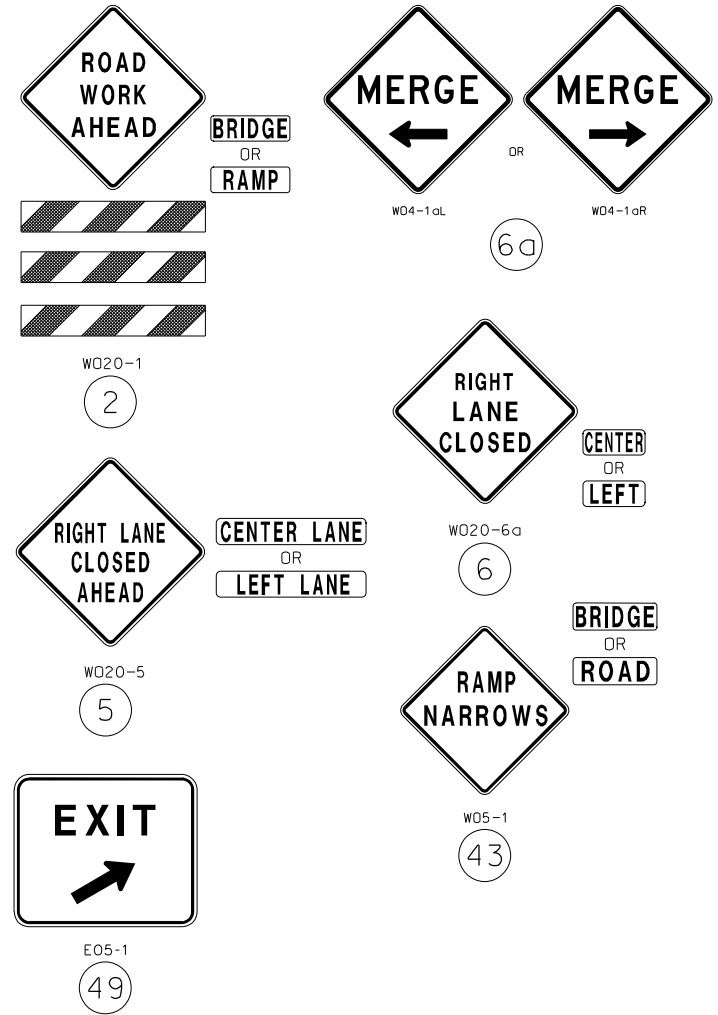
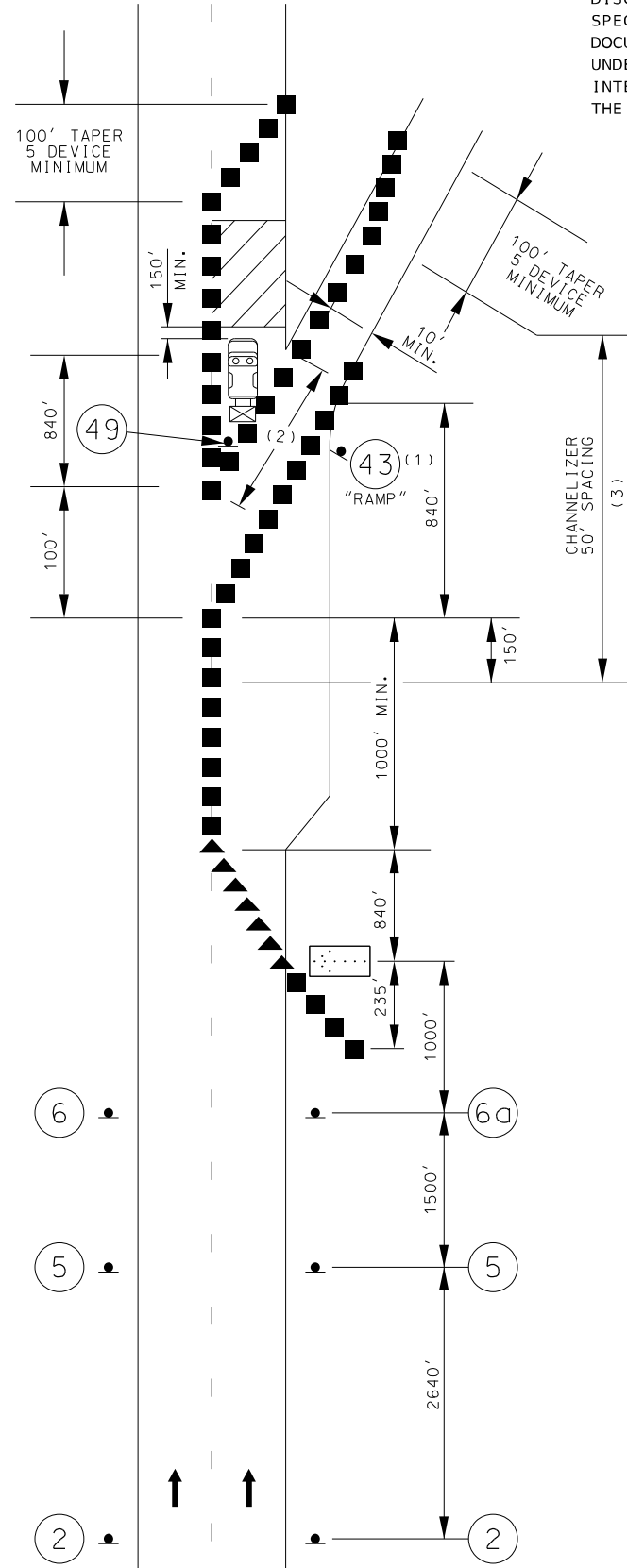
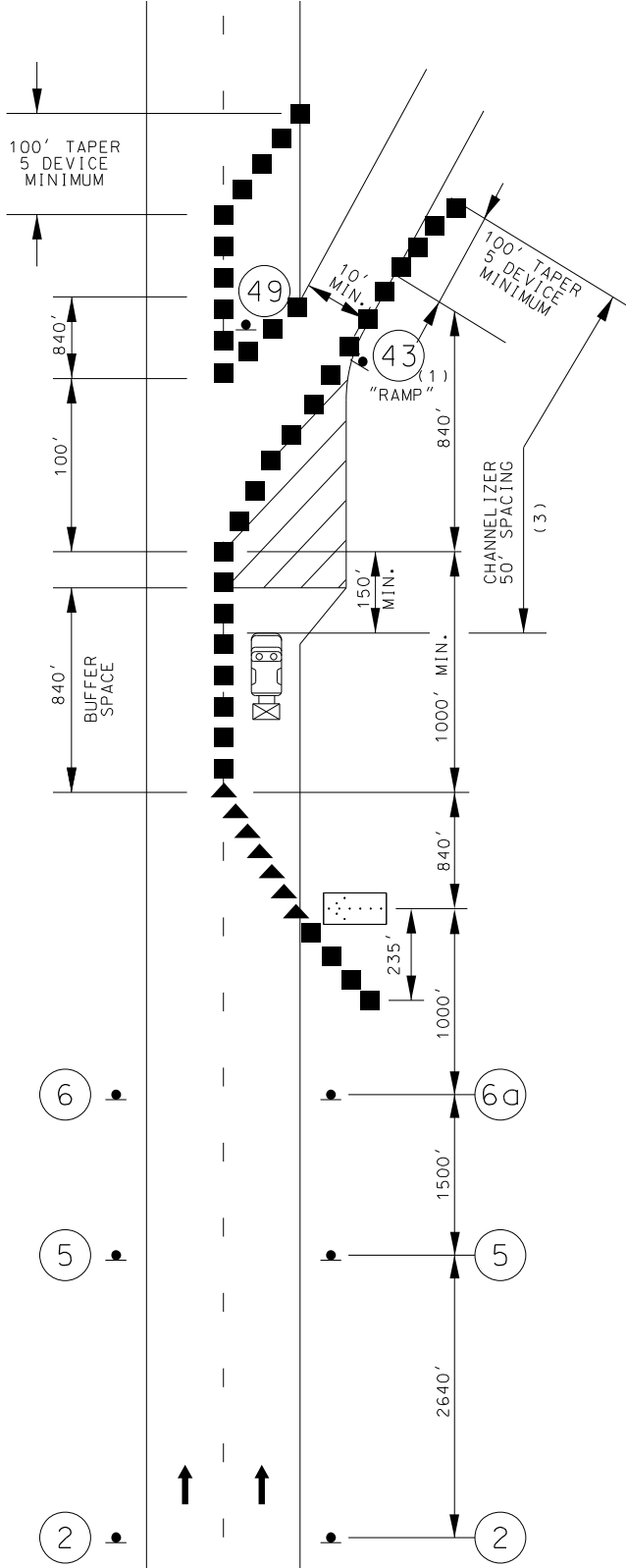
PROJECT NO.	BRIDGE NO.

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

EFK Moen
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NOT TO SCALE

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GENERAL TCP NOTES:

DISTANCE BETWEEN SIGNS MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED AS DIRECTED BY THE ENGINEER.

ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY.

NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS.

ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

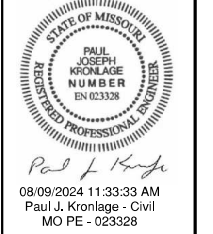
NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISTING BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.

- (1) SIGN 43 REQUIRED WHEN RAMP WIDTH IS REDUCED.
- (2) FIVE DEVICE MINIMUM.
- (3) FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.

NOT TO SCALE

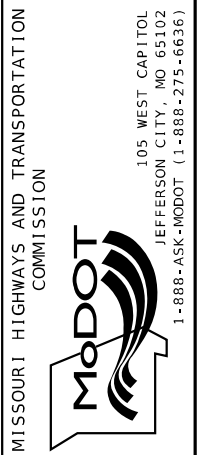
TRAFFIC CONTROL PLAN
 STANDARD DETAILS
 SHEET 9 OF 10

LANE CLOSURE EXIT RAMP AREAS



DATE PREPARED: 8/9/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: SL SHEET NO.: 19
 COUNTY: ST. LOUIS
 JOB NO.: J613571
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

DESCRIPTION	DATE



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

RAMP INFORMATION:

- RAMP 18: EB I-70 TO NB I-170
- RAMP 19: SB I-170 TO WB I-70
- RAMP 20: WB I-70 TO NB I-170
- RAMP 21: SB I-170 TO EB I-70
- RAMP 22: NB I-170 TO LAMBERT
- RAMP 23: EB I-70 TO SB I-170
- RAMP 24: NB I-170 TO WB I-70
- RAMP 25: WB I-70 TO SB I-170
- RAMP 26: NB I-170 TO EB I-170

(3)

EAST
**EXIT 7A
 CLOSED**

**USE DETOUR
 AT EXIT 6**

96" x 84"

(73)

(3)

END
DETOUR

MO4-8a

(52)

(3) (3) (3) (3) (3)

DETOUR
EAST
INTERSTATE
70
↑

(56A)

DETOUR
EAST
INTERSTATE
70
↗

(56C)

DETOUR
EAST
INTERSTATE
70
→

(56E)

DETOUR
EAST
INTERSTATE
70
↘

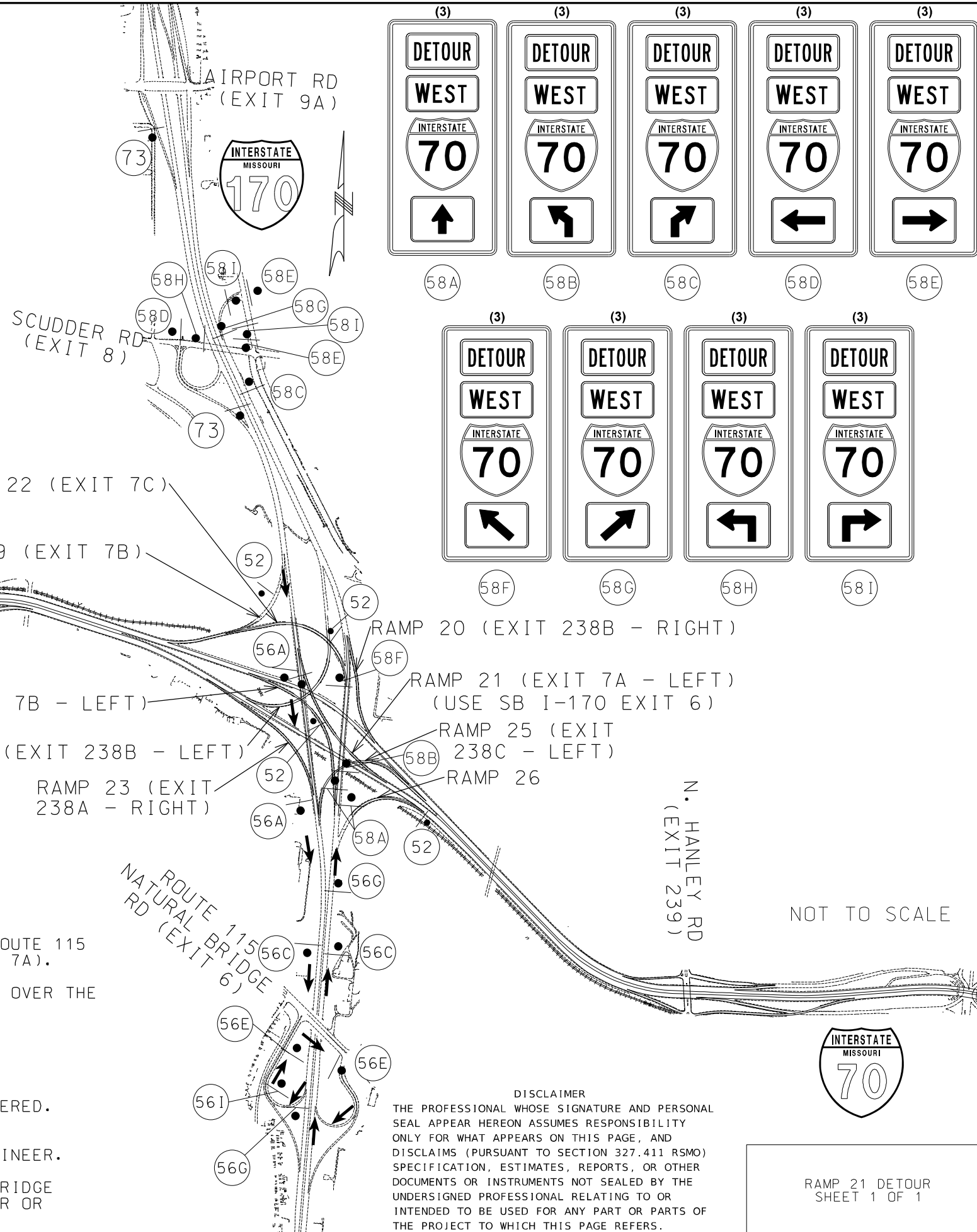
(56G)

DETOUR
EAST
INTERSTATE
70
↙

(56I)

TRAFFIC CONTROL DETOURS NOTES:

1. WHEN RAMP 21 IS CLOSED, VEHICLES TO DETOUR TO SB I-170 AND EXIT @ ROUTE 115 (NATURAL BRIDGE ROAD) - EXIT 6 AND CONTINUE DETOUR TO RAMP 26 (EXIT 7A).
2. SIGNS AT SCUDDER ROAD (EXIT 8) ARE PROVIDED FOR TRAFFIC THAT PASSED OVER THE DETOUR OPPORTUNITY AT RAMP 24 OR RAMP 22.
3. SEE JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.
4. ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
5. ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER EXISTING SIGNS.
6. ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE APPROVED BY THE ENGINEER.
7. NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISITNG BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS



(3) (3) (3) (3) (3)

DETOUR
WEST
INTERSTATE
70
↑

(58A)

DETOUR
WEST
INTERSTATE
70
↖

(58B)

DETOUR
WEST
INTERSTATE
70
↗

(58C)

DETOUR
WEST
INTERSTATE
70
←

(58D)

DETOUR
WEST
INTERSTATE
70
→

(58E)

(3) (3) (3) (3)

DETOUR
WEST
INTERSTATE
70
↖

(58F)

DETOUR
WEST
INTERSTATE
70
↗

(58G)

DETOUR
WEST
INTERSTATE
70
←

(58H)

DETOUR
WEST
INTERSTATE
70
→

(58I)

STATE OF MISSOURI
 PAUL JOSEPH KRONLAGE
 NUMBER
 EN 023328

Paul J. Kronlage
 08/09/2024 11:34:10 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE I-70	STATE MO
DISTRICT SL	SHEET NO. 21

COUNTY
ST. LOUIS

JOB NO.
J613571

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)

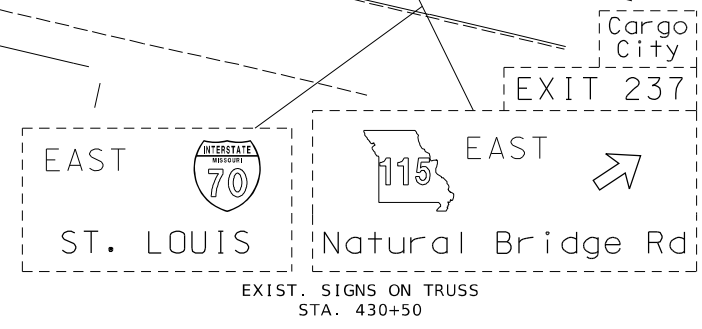
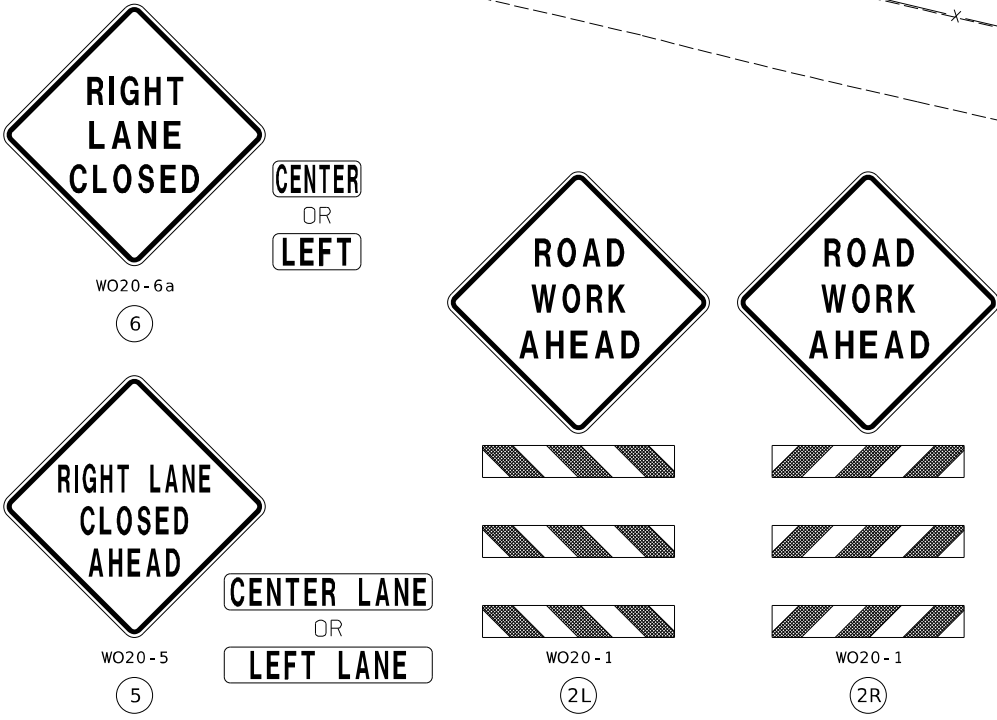
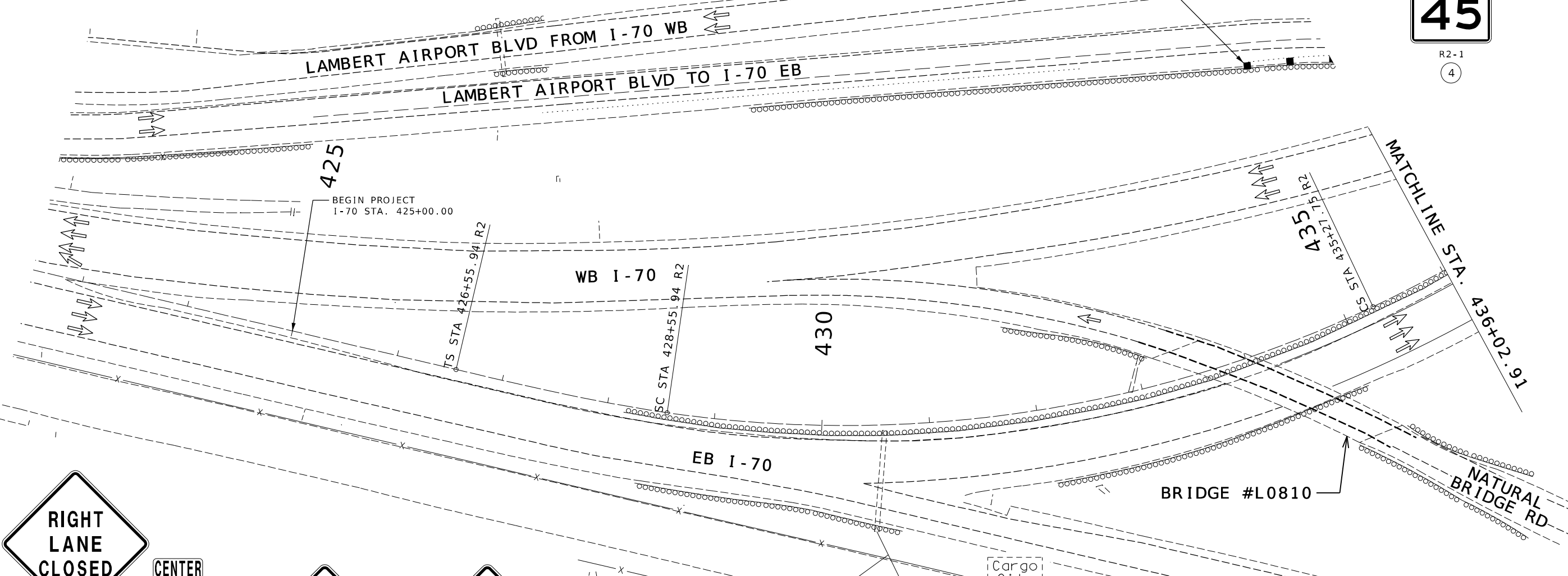
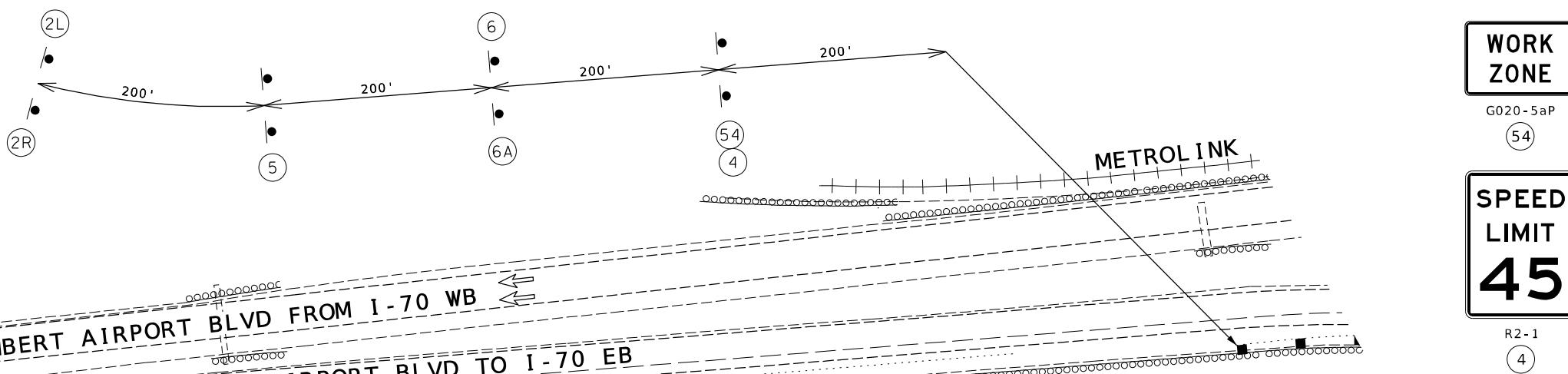
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INTERSTATE
 MISSOURI
70

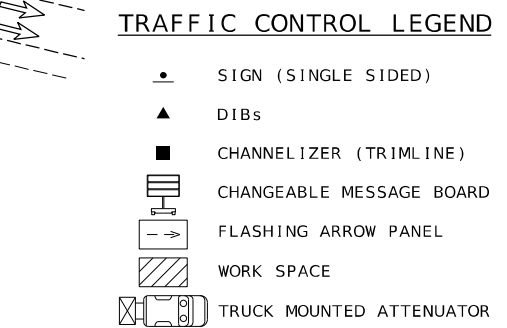
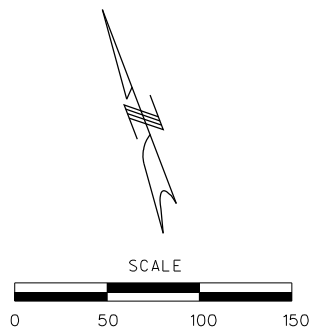
RAMP 21 DETOUR
 SHEET 1 OF 1

GENERAL TCP NOTES

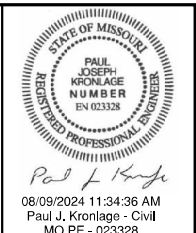
ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
 ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.
 ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 SEE TRAFFIC CONTROL STANDARD DETAILS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.
 USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.
 NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISTING BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.



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TRAFFIC CONTROL: EB I-70
 ENTRANCE RAMP LANE CLOSURE
 AT BRIDGE A4282 & A4226
 SHEET 1 OF 3



DATE PREPARED: 8/9/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: SL SHEET NO.: 22
 COUNTY: ST. LOUIS
 JOB NO.: J613571
 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)

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



Paul J. Kronlage
08/09/2024 11:34:54 AM
Paul J. Kronlage - Civil
MO PE - 023328

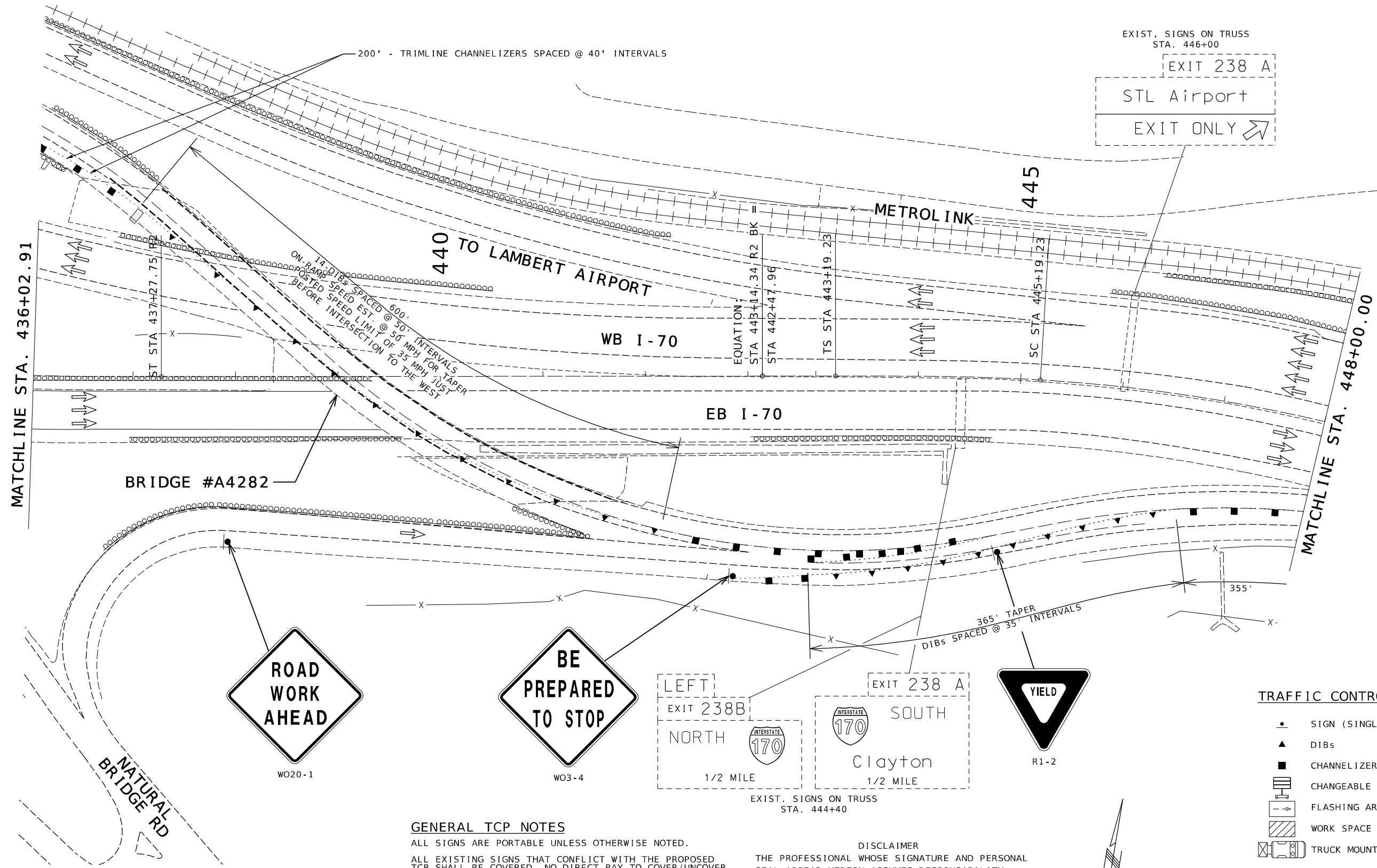
DATE PREPARED 8/9/2024	
ROUTE 1-70	STATE MO
DISTRICT SL	SHEET NO. 23
COUNTY ST. LOUIS	
JOB NO. J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



GENERAL TCP NOTES

ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.

ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.

ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

SEE TRAFFIC CONTROL STANDARD DETAILS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.

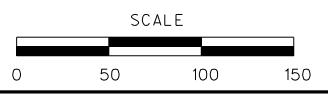
USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.

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- TRAFFIC CONTROL LEGEND**
- SIGN (SINGLE SIDED)
 - ▲ DIBs
 - CHANNELIZER (TRIMLINE)
 - ☐ CHANGEABLE MESSAGE BOARD
 - ☐ FLASHING ARROW PANEL
 - ▨ WORK SPACE
 - ☐ TRUCK MOUNTED ATTENUATOR

TRAFFIC CONTROL: EB I-70
ENTRANCE RAMP LANE CLOSURE
AT BRIDGE A4282 & A4226
SHEET 2 OF 3





Paul J. Kronlage
08/09/2024 11:35:12 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE STATE
I - 70 MO
DISTRICT SHEET NO.
SL 24

COUNTY
ST. LOUIS

JOB NO.
J613571


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

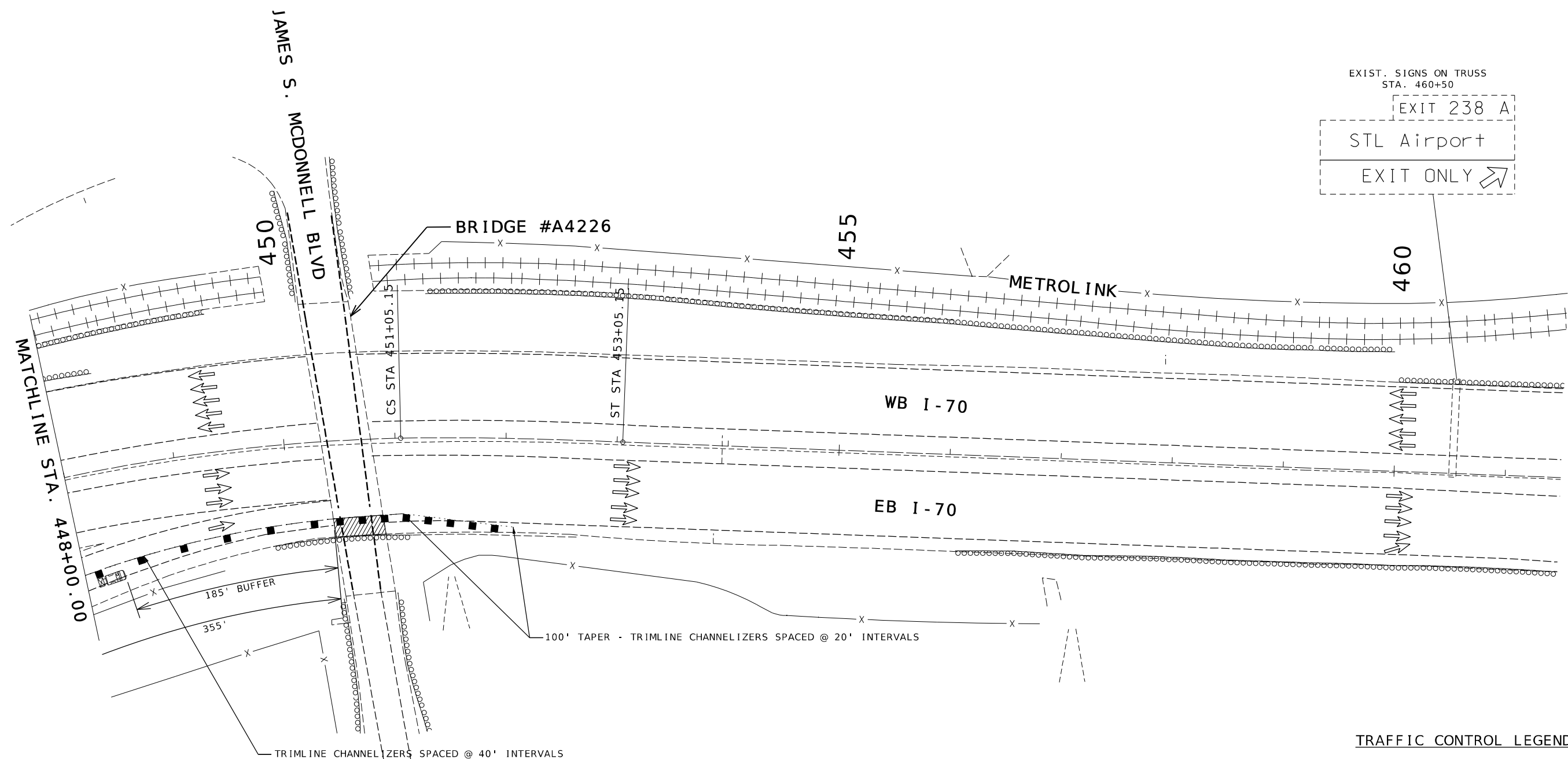
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EFK Moen
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13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



TRAFFIC CONTROL LEGEND

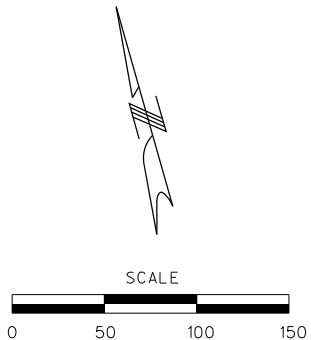
- SIGN (SINGLE SIDED)
- ▲ DIBs
- CHANNELIZER (TRIMLINE)
- ▭ CHANGEABLE MESSAGE BOARD
- ▭ FLASHING ARROW PANEL
- ▨ WORK SPACE
- ▭ TRUCK MOUNTED ATTENUATOR

GENERAL TCP NOTES

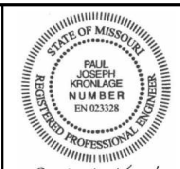
THIS SHEET SHOWS THE TCP FOR PAINTING A PORTION OF BRIDGE A4226.
 ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
 ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.
 ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 SEE TRAFFIC CONTROL STANDARD DETAILS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.
 USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.

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TRAFFIC CONTROL: EB I-70
 ENTRANCE RAMP LANE CLOSURE
 AT BRIDGE A4282 & A4226
 SHEET 3 OF 3



Paul J. Kronlage
08/09/2024 5:25:18 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/7/2024

ROUTE STATE
I - 70 MO

DISTRICT SHEET NO.
SL 25

COUNTY
ST. LOUIS

JOB NO.
J613571

CONTRACT ID.

PROJECT NO.

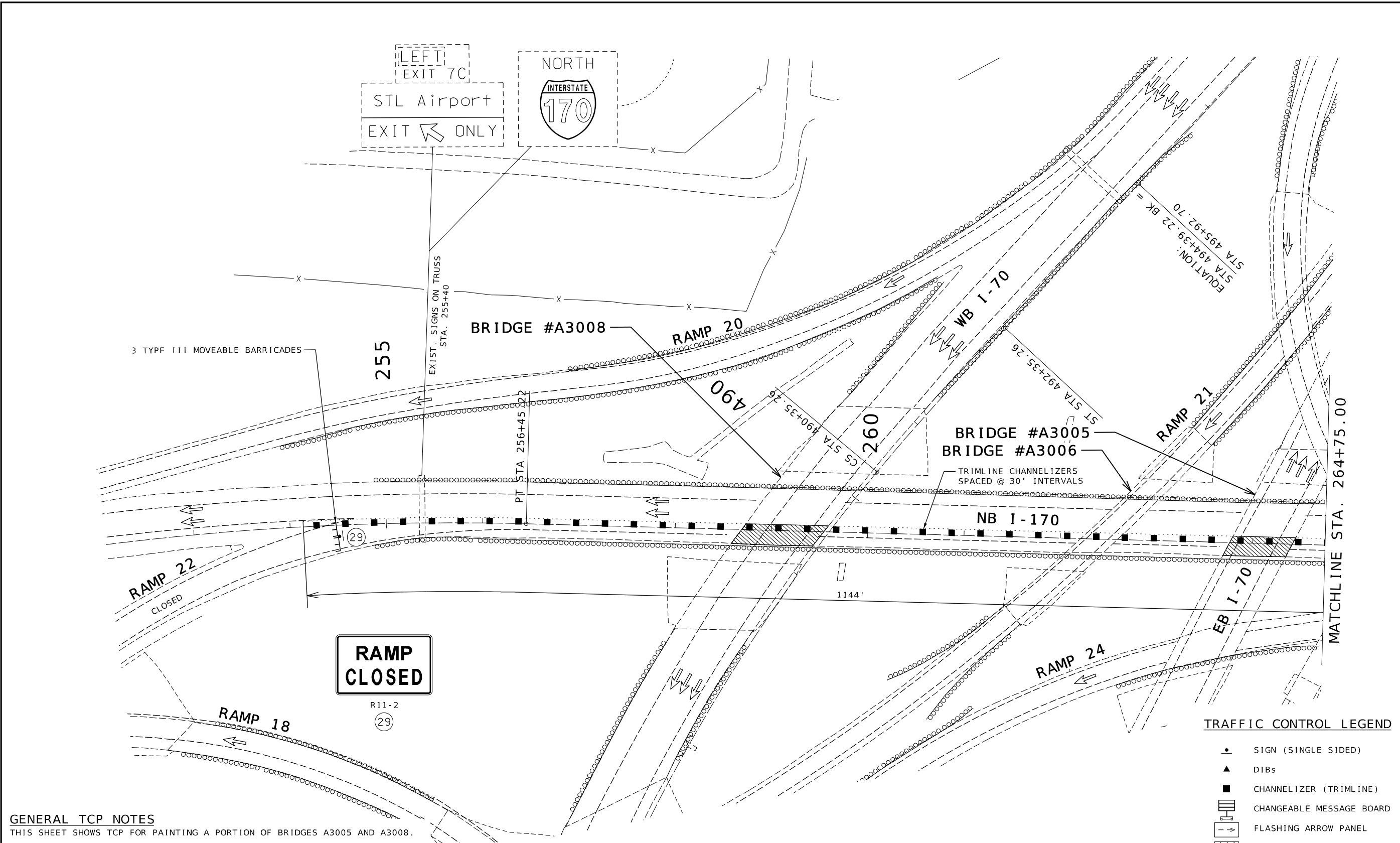
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

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

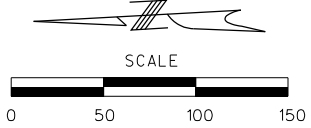


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▲ DIBs
- CHANNELIZER (TRIMLINE)
- CHANGEABLE MESSAGE BOARD
- ◄ FLASHING ARROW PANEL
- ▨ WORK SPACE
- ☒ TRUCK MOUNTED ATTENUATOR

GENERAL TCP NOTES
 THIS SHEET SHOWS TCP FOR PAINTING A PORTION OF BRIDGES A3005 AND A3008.
 ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
 ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.
 ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 NO ADDITIONAL DETOUR SIGNS ARE NEEDED DURING RAMP 22 & 24 CLOSURES. CONTRACTOR SHALL USE CMS'S FOR THESE CLOSURES.
 SEE TRAFFIC CONTROL STANDARD DETAILS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.
 LAMBERT-ST. LOUIS INTERNATIONAL AIRPORT EXIT (EXIT 7C RAMP 22) SHALL USE NB I-170 TO WB I-70 TRAFFIC (EXIT 7B RAMP 24) AS DETOUR WHEN RAMP 22 IS CLOSED.
 USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.

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TRAFFIC CONTROL: RAMP 22
 EXIT RAMP LANE CLOSURE
 AT BRIDGE A3008, A3007, & A3005
 SHEET 1 OF 4



Paul J. Kronlage
08/09/2024 11:46:25 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE I-70 STATE MO
DISTRICT SL SHEET NO. 26

COUNTY ST. LOUIS
JOB NO. J613571
CONTRACT ID.

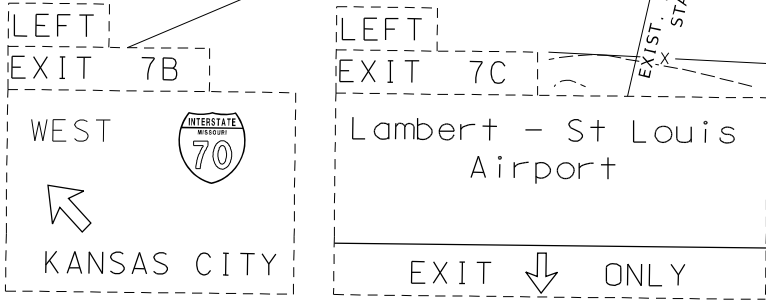
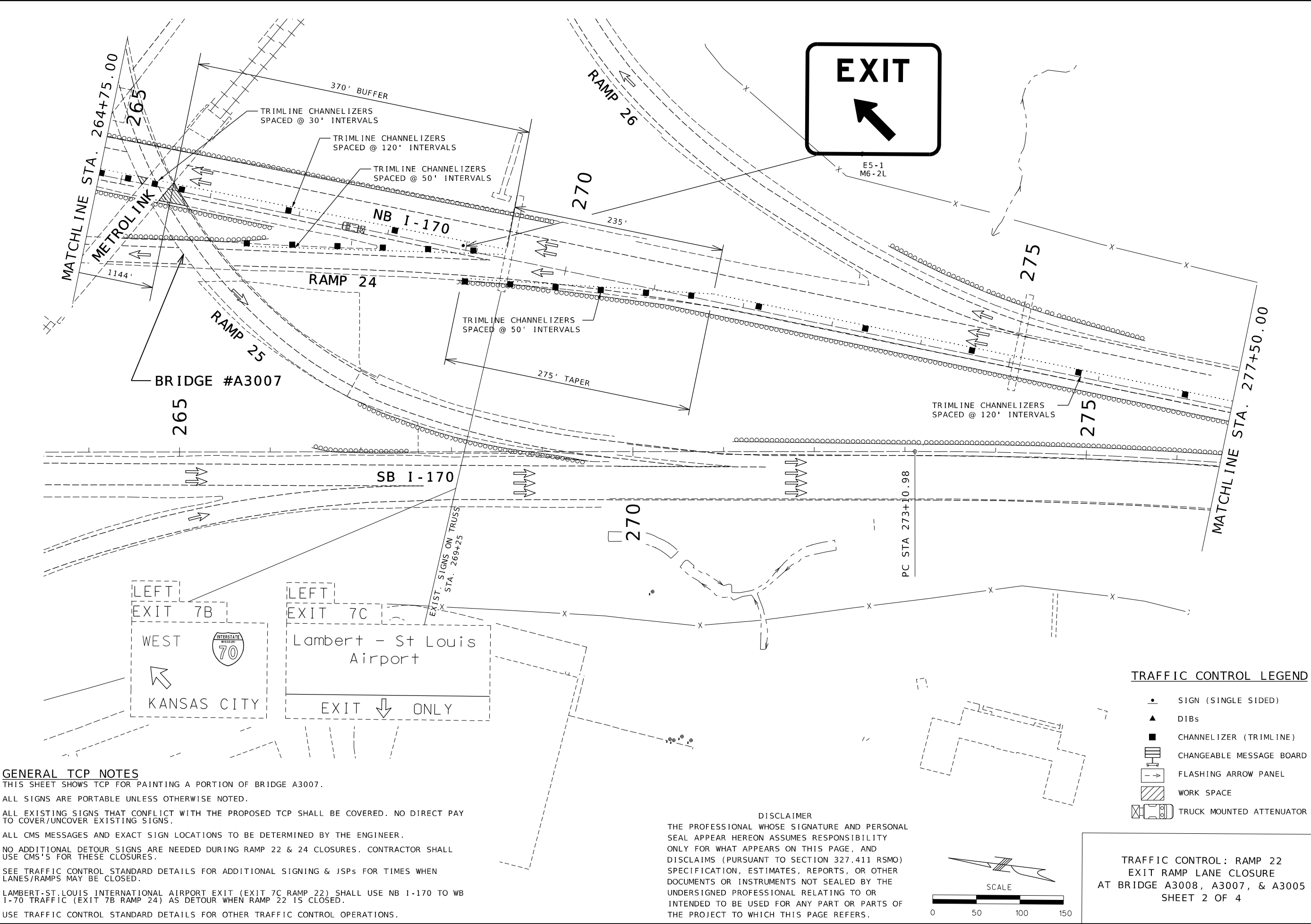
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

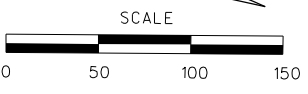


TRAFFIC CONTROL LEGEND

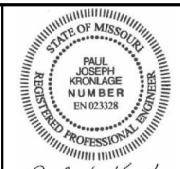
- SIGN (SINGLE SIDED)
- DIBs
- CHANNELIZER (TRIMLINE)
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- WORK SPACE
- TRUCK MOUNTED ATTENUATOR

GENERAL TCP NOTES
 THIS SHEET SHOWS TCP FOR PAINTING A PORTION OF BRIDGE A3007.
 ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
 ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.
 ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 NO ADDITIONAL DETOUR SIGNS ARE NEEDED DURING RAMP 22 & 24 CLOSURES. CONTRACTOR SHALL USE CMS'S FOR THESE CLOSURES.
 SEE TRAFFIC CONTROL STANDARD DETAILS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.
 LAMBERT-ST. LOUIS INTERNATIONAL AIRPORT EXIT (EXIT 7C RAMP 22) SHALL USE NB I-170 TO WB I-70 TRAFFIC (EXIT 7B RAMP 24) AS DETOUR WHEN RAMP 22 IS CLOSED.
 USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.

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TRAFFIC CONTROL: RAMP 22
 EXIT RAMP LANE CLOSURE
 AT BRIDGE A3008, A3007, & A3005
 SHEET 2 OF 4



Paul J. Kronlage
08/09/2024 11:36:00 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE STATE
I-70 MO
DISTRICT SHEET NO.
SL 27

COUNTY
ST. LOUIS

JOB NO.
J613571

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

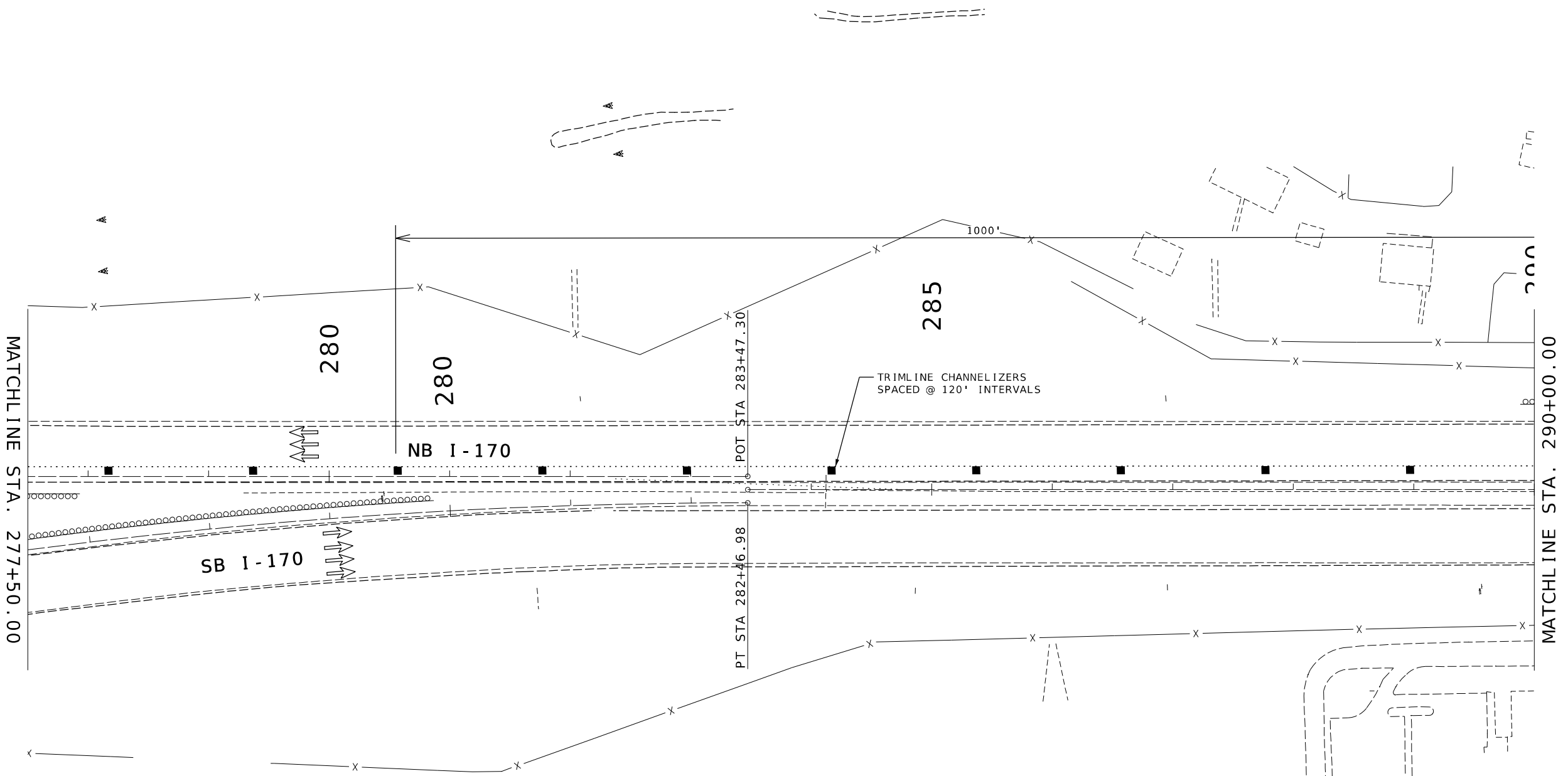
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

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



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▲ DIBs
- CHANNELIZER (TRIMLINE)
- ◻ CHANGEABLE MESSAGE BOARD
- ◻ FLASHING ARROW PANEL
- ◻ WORK SPACE
- ◻ TRUCK MOUNTED ATTENUATOR

GENERAL TCP NOTES

ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.

ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.

ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

NO ADDITIONAL DETOUR SIGNS ARE NEEDED DURING RAMP 22 & 24 CLOSURES. CONTRACTOR SHALL USE CMS'S FOR THESE CLOSURES.

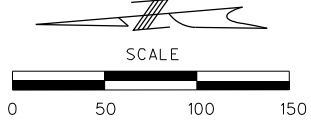
SEE TRAFFIC CONTROL STANDARD DETAILS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.

LAMBERT-ST. LOUIS INTERNATIONAL AIRPORT EXIT (EXIT 7C RAMP 22) SHALL USE NB I-170 TO WB I-70 TRAFFIC (EXIT 7B RAMP 24) AS DETOUR WHEN RAMP 22 IS CLOSED.

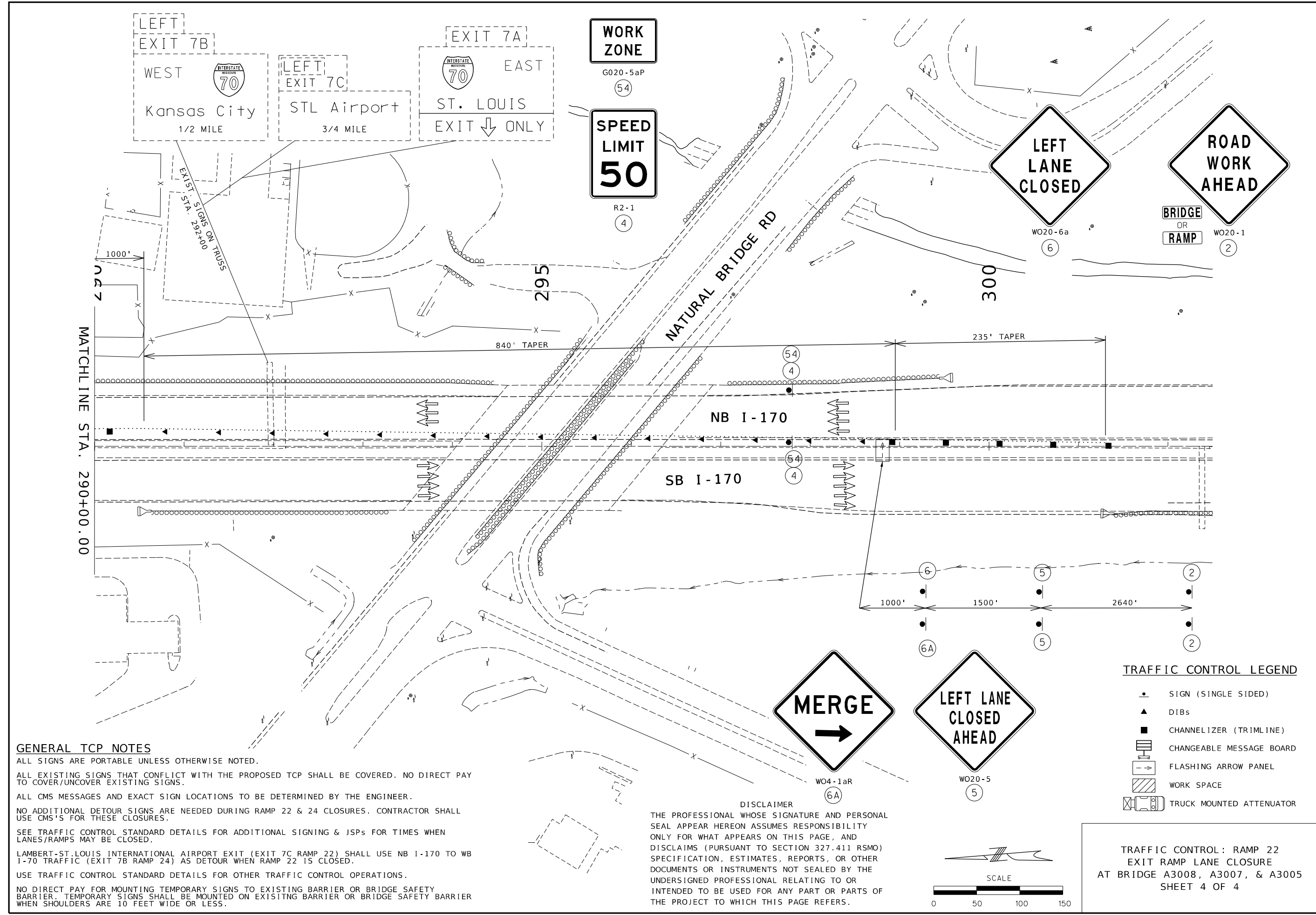
USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.

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TRAFFIC CONTROL: RAMP 22
EXIT RAMP LANE CLOSURE
AT BRIDGE A3008, A3007, & A3005
SHEET 3 OF 4



GENERAL TCP NOTES

- ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
- ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.
- ALL CMS MESSAGES AND EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- NO ADDITIONAL DETOUR SIGNS ARE NEEDED DURING RAMP 22 & 24 CLOSURES. CONTRACTOR SHALL USE CMS'S FOR THESE CLOSURES.
- SEE TRAFFIC CONTROL STANDARD DETAILS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.
- LAMBERT-ST. LOUIS INTERNATIONAL AIRPORT EXIT (EXIT 7C RAMP 22) SHALL USE NB 1-170 TO WB 1-70 TRAFFIC (EXIT 7B RAMP 24) AS DETOUR WHEN RAMP 22 IS CLOSED.
- USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.
- NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER OR BRIDGE SAFETY BARRIER. TEMPORARY SIGNS SHALL BE MOUNTED ON EXISTING BARRIER OR BRIDGE SAFETY BARRIER WHEN SHOULDERS ARE 10 FEET WIDE OR LESS.

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▲ DIBs
- CHANNELIZER (TRIMLINE)
- ▨ CHANGEABLE MESSAGE BOARD
- ⬇️ FLASHING ARROW PANEL
- ▨ WORK SPACE
- 🚚 TRUCK MOUNTED ATTENUATOR

TRAFFIC CONTROL: RAMP 22
 EXIT RAMP LANE CLOSURE
 AT BRIDGE A3008, A3007, & A3005
 SHEET 4 OF 4



Paul J. Kronlage
 08/09/2024 11:36:20 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED	
8/9/2024	
ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
SL	28
COUNTY	
ST. LOUIS	
JOB NO.	
J613571	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

MoDOT

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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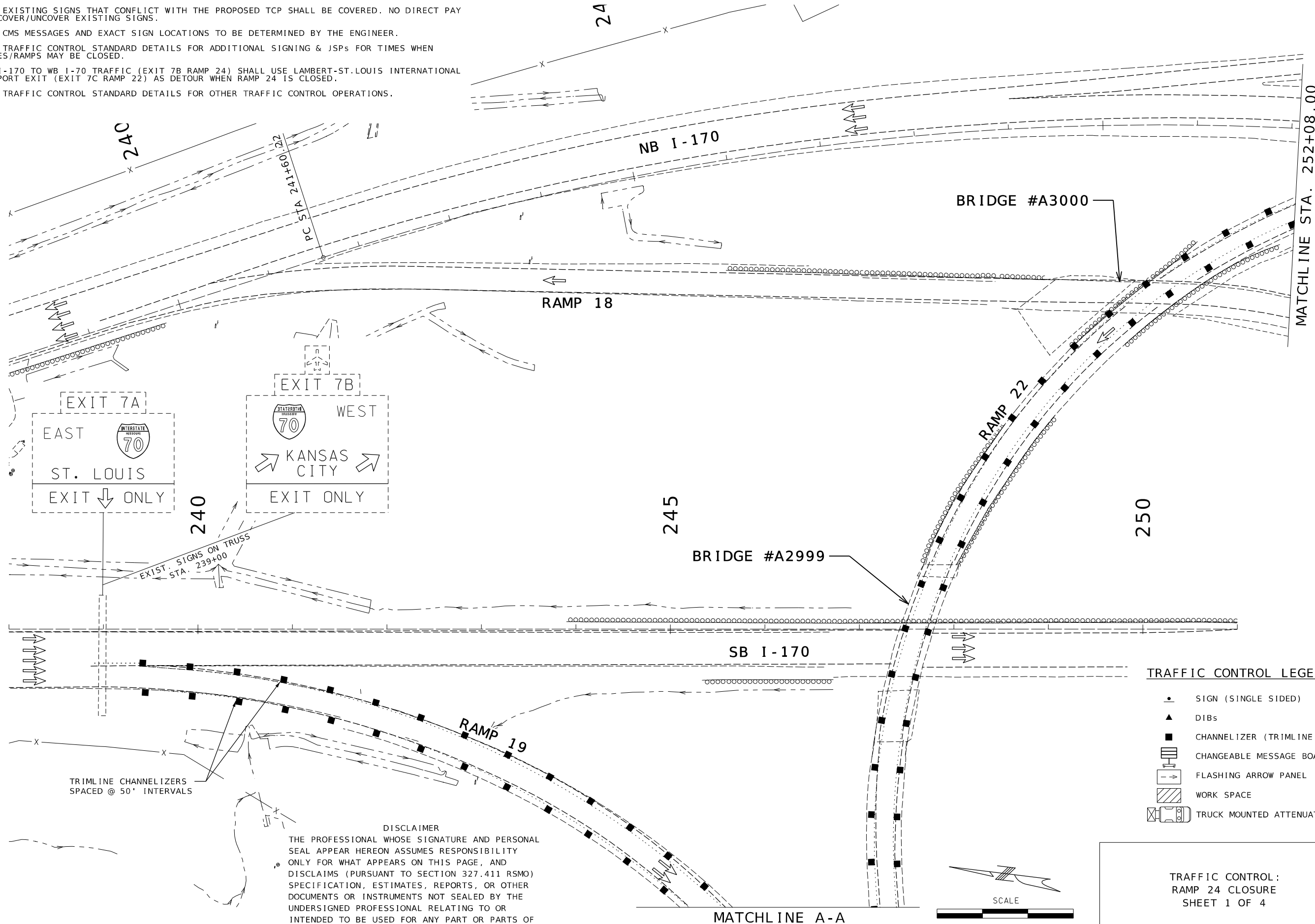
EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021

Phone 314-394-3100
 Fax 314-394-3199
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GENERAL TCP NOTES

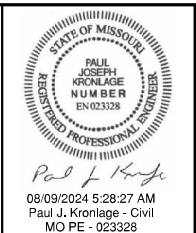
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 NB I-170 TO WB I-70 TRAFFIC (EXIT 7B RAMP 24) SHALL USE LAMBERT-ST. LOUIS INTERNATIONAL AIRPORT EXIT (EXIT 7C RAMP 22) AS DETOUR WHEN RAMP 24 IS CLOSED.
 USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▲ DIBs
- CHANNELIZER (TRIMLINE)
- ▭ CHANGEABLE MESSAGE BOARD
- ▭ FLASHING ARROW PANEL
- ▨ WORK SPACE
- ▭ TRUCK MOUNTED ATTENUATOR

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 COUNTY: ST. LOUIS
 JOB NO.: J613571
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

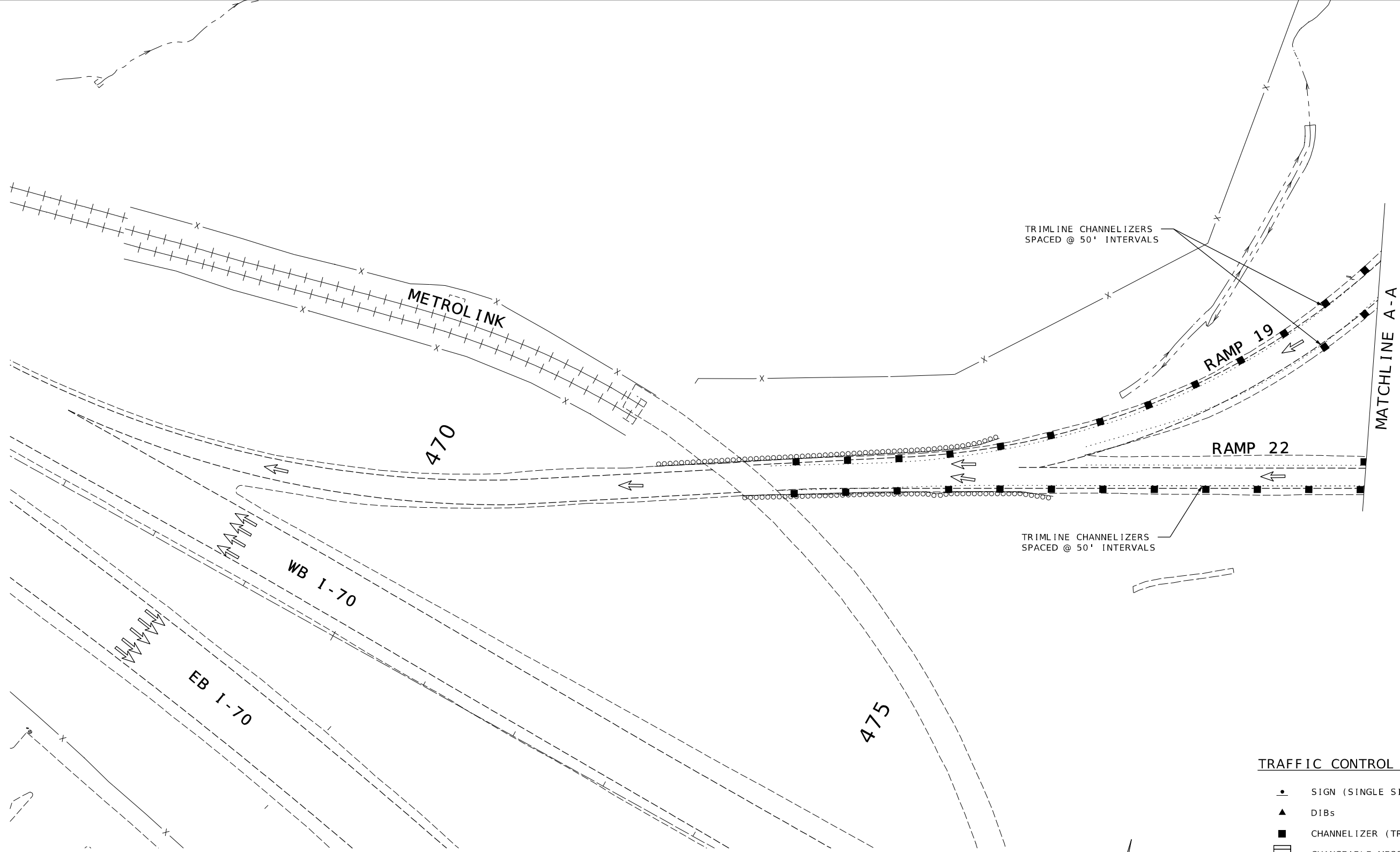
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TRAFFIC CONTROL :
 RAMP 24 CLOSURE
 SHEET 1 OF 4



Paul J. Kronlage
 08/09/2024 5:28:49 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
8/7/2024

ROUTE STATE
1-70 MO

DISTRICT SHEET NO.
SL 30

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JOB NO.
J613571


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
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GENERAL TCP NOTES

ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.

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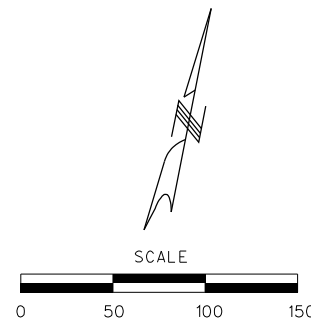
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NB I-170 TO WB I-70 TRAFFIC (EXIT 7B RAMP 24) SHALL USE LAMBERT-ST. LOUIS INTERNATIONAL AIRPORT EXIT (EXIT 7C RAMP 22) AS DETOUR WHEN RAMP 24 IS CLOSED..

USE TRAFFIC CONTROL STANDARD DETAILS FOR OTHER TRAFFIC CONTROL OPERATIONS.

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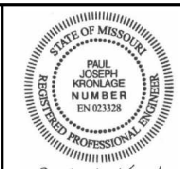


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▲ DIBS
- CHANNELIZER (TRIMLINE)
- ▬ CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- ▨ WORK SPACE
- ☒ TRUCK MOUNTED ATTENUATOR

TRAFFIC CONTROL :
 RAMP 24 CLOSURE
 SHEET 2 OF 4

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Paul J. Kronlage
08/09/2024 5:29:14 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/7/2024

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SL SHEET NO.
31

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J613571

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

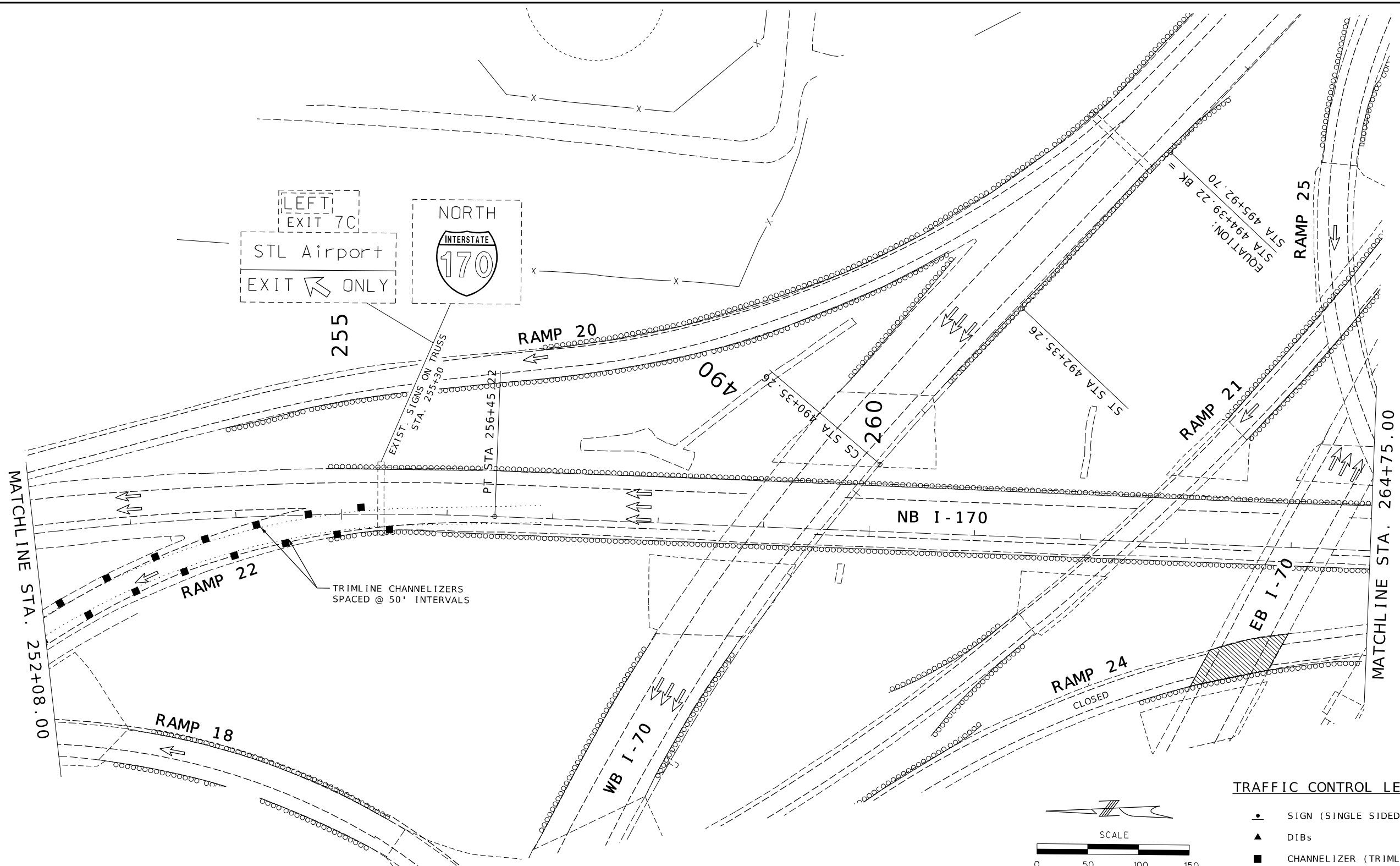
DATE	DESCRIPTION

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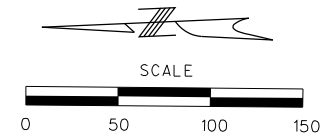
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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▲ DIBS
- CHANNELIZER (TRIMLINE)
- ▩ CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- ▨ WORK SPACE
- ⊠ TRUCK MOUNTED ATTENUATOR



GENERAL TCP NOTES

THIS SHEET SHOWS TCP FOR PAINTING A PORTION OF BRIDGE A3005.
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TRAFFIC CONTROL :
 RAMP 24 CLOSURE
 SHEET 3 OF 4



Paul J. Kronlage
 08/09/2024 11:36:42 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

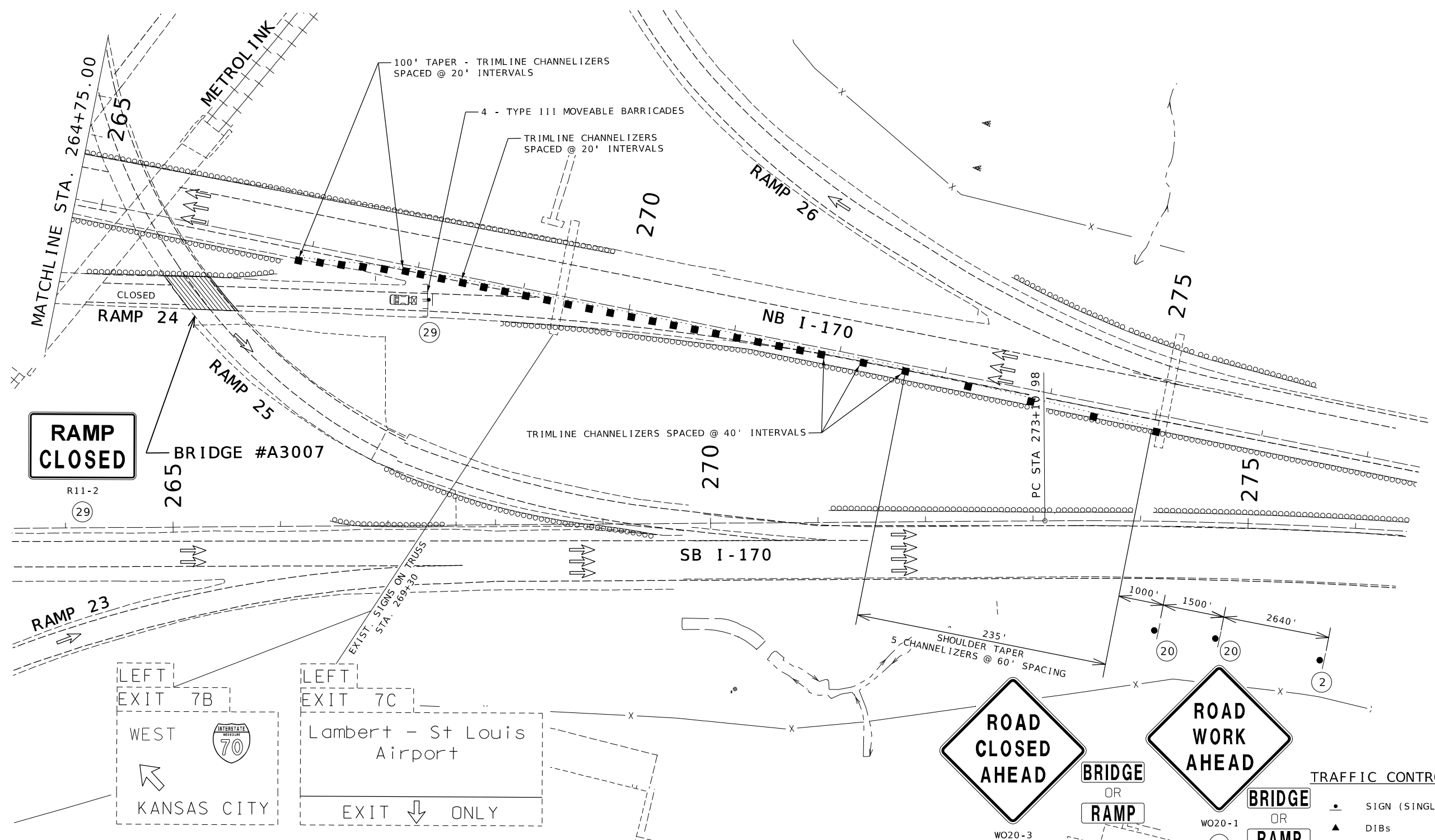
DATE PREPARED		8/9/2024	
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COUNTY			
ST. LOUIS			
JOB NO.			
J613571			
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PROJECT NO.			
BRIDGE NO.			

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GENERAL TCP NOTES

THIS SHEET SHOWS TCP FOR PAINTING A PORTION OF BRIDGE A3007.

ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.

ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.

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TRAFFIC CONTROL LEGEND

●	SIGN (SINGLE SIDED)
▲	DIBs
■	CHANNELIZER (TRIMLINE)
□	CHANGEABLE MESSAGE BOARD
→	FLASHING ARROW PANEL
▨	WORK SPACE
⊠	TRUCK MOUNTED ATTENUATOR

TRAFFIC CONTROL:
 RAMP 24 CLOSURE
 SHEET 4 OF 4



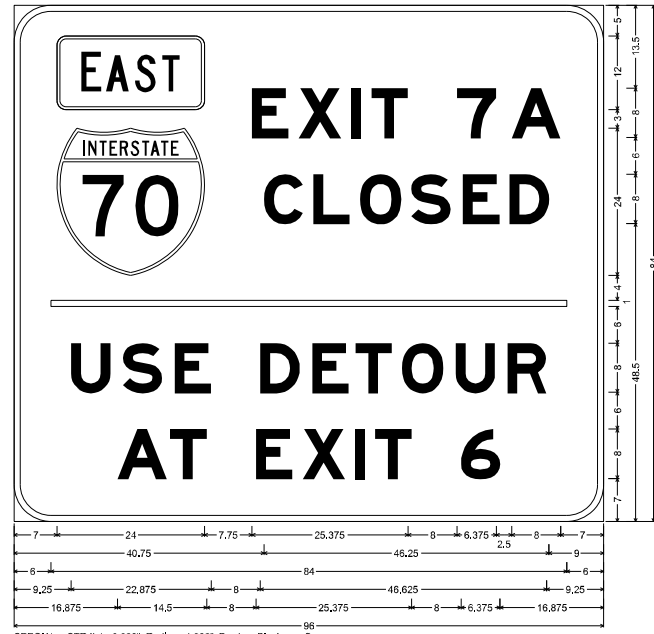
Paul J. Kronlage
08/09/2024 11:37:08 AM
Paul J. Kronlage - Civil
MO PE - 023328

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8/9/2024
ROUTE STATE
I-70 MO
DISTRICT SHEET NO.
SL 33
COUNTY
ST. LOUIS
JOB NO.
J613571
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

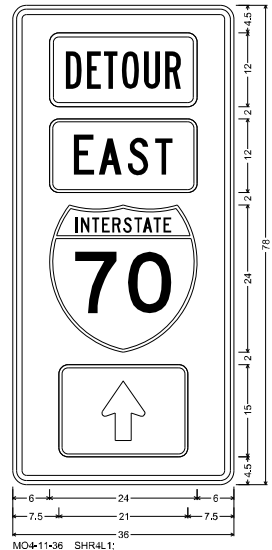
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St. Louis, MO 63021
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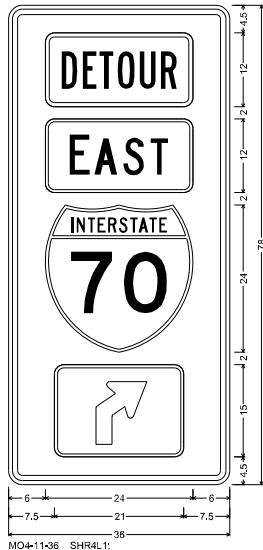


SPECIAL STR4L1: 6,000" Radius, 1,000" Border, Black on Orange;
[EXIT 7 A] E Mod; [CLOSED] E Mod; [USE DETOUR] E Mod; [AT EXIT 6] E Mod;
Table of letter and object lefts.

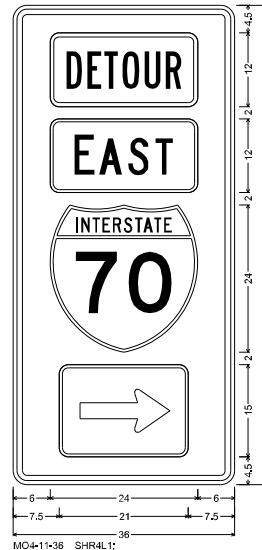
U	S	E	D	E	T	O	U	R
7,000	38,750	46,375	54,875	58,125	72,125	81,000		
9,250	17,750	26,125	40,125	48,500	55,625	63,125	71,875	80,375
A	T	E	X	I	T	6		
16,875	25,375	39,375	47,000	55,500	58,750	72,750		



MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



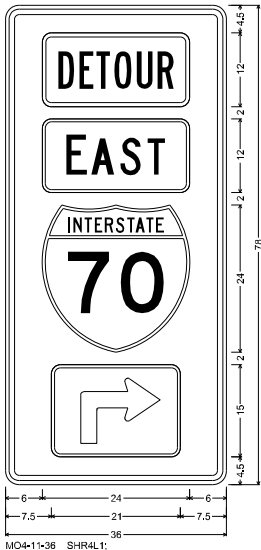
MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



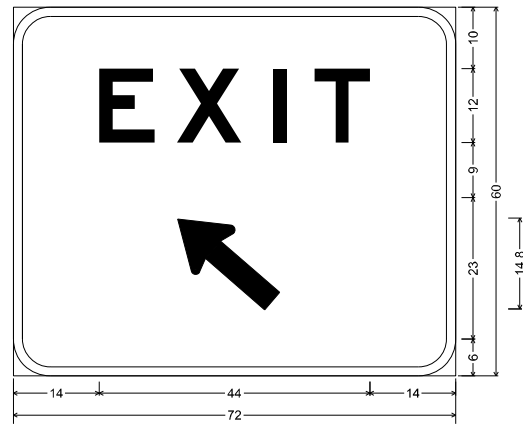
MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



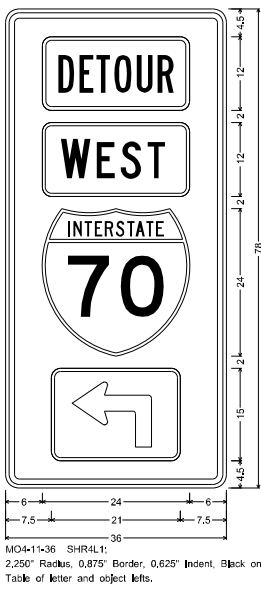
MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



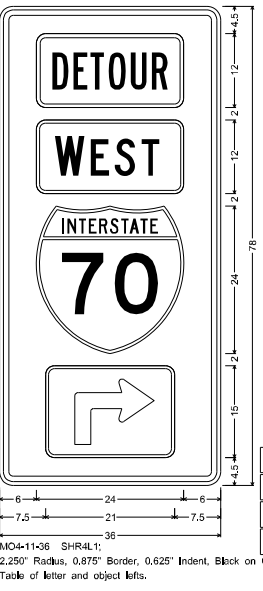
MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



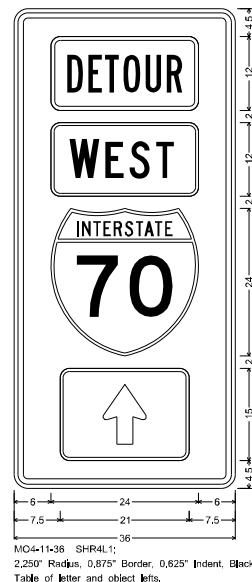
E5-1_72x60;
6.0" Radius, 1.5" Border, Black on Orange;
"EXIT", E 2K 220% spacing; Arrow Custom - 29.3" 45";
Standard Arrow Custom 20.4" X 10.1" 221";



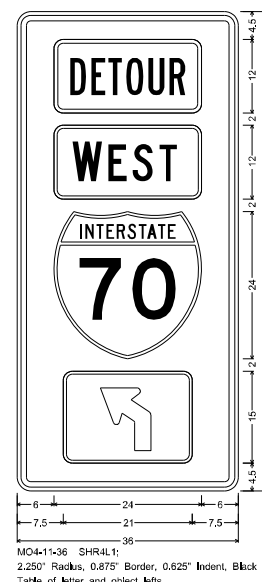
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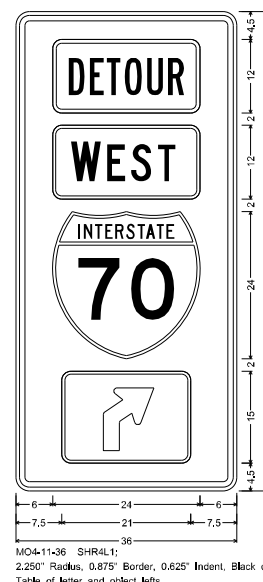
MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



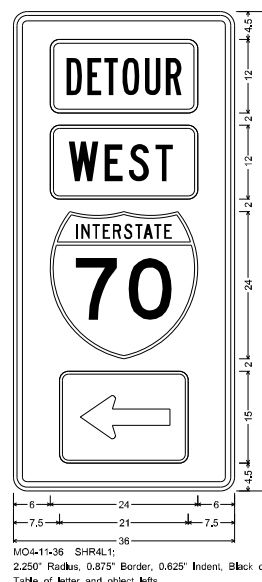
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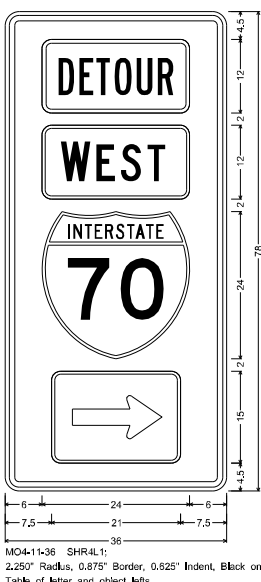
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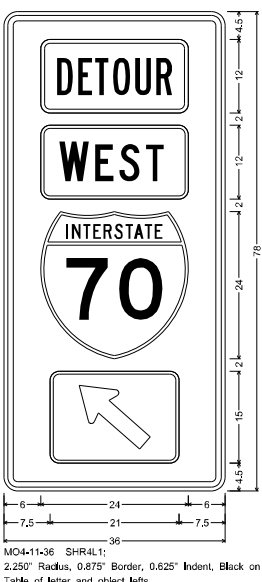
MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



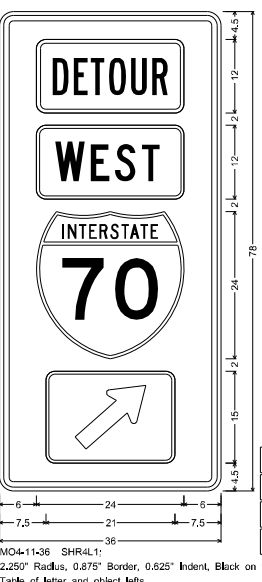
MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.



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MO4-11-36 SHR4L1: 2,250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; Table of letter and object lefts.

SPECIAL SIGN DETAILS
SHEET 1 OF 1