

DESIGN DESIGNATION

US-50

A.A.D.T. - 2023 = 5669

V = 15 M.P.H.

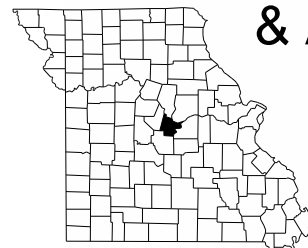
FUNCTIONAL CLASSIFICATION- OTHER FREEWAY AND EXPRESSWAY

NO RIGHT OF WAY ACQUISITION

DISCLAIMER

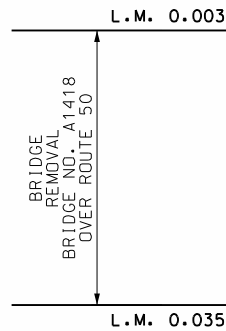
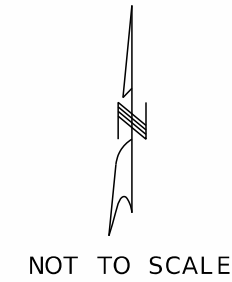
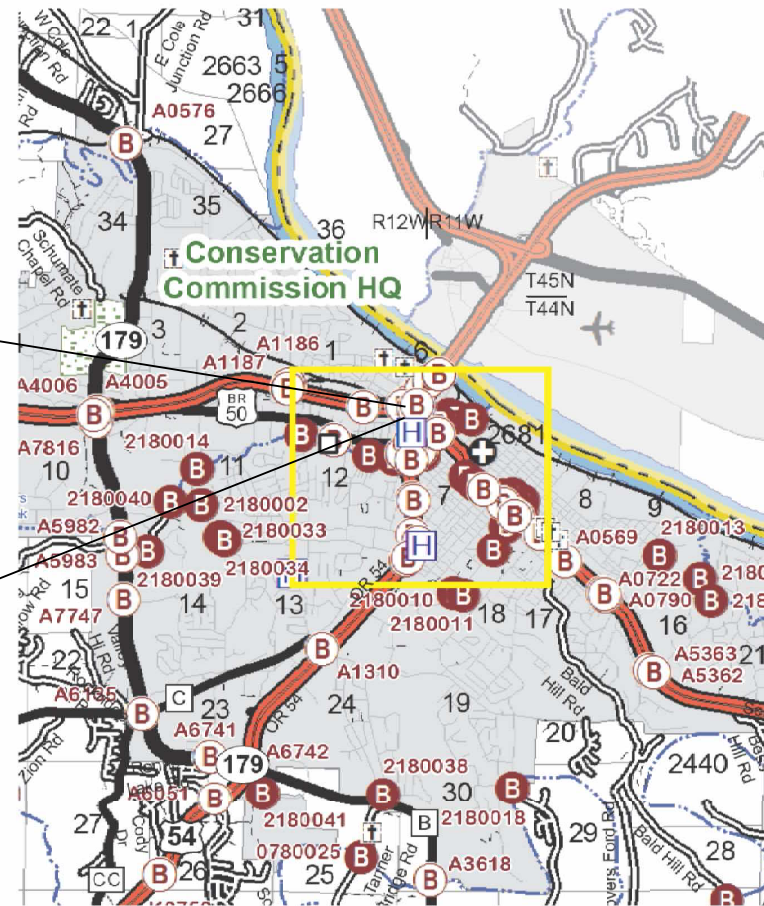
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
COLE COUNTY



KEY MAP
LOCATION OF COLE COUNTY

US ROUTE 50
A1418 BRIDGE REMOVAL
& ASSOCIATED ROADWAY IMPROVEMENTS
MoDOT JOB NO. JCD0075



CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
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QUANTITIES (QU) (2 SHEET)	3
PLAN SHEETS (PL)	4
SPECIAL SHEETS (SS)	5
TRAFFIC CONTROL SHEETS (TC)	6-19



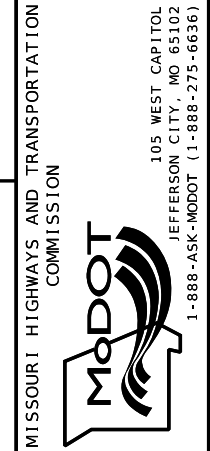
THIS SHEET HAS BEEN SEALED AND DATED ELECTRONICALLY
DATE PREPARED
9/13/2024
ROUTE 50 STATE MO
DISTRICT CD SHEET NO. 1
COUNTY COLE
JOB NO. JCD0075
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 0.003
END OF PROJECT	LOG MILE 0.035
APPARENT LENGTH	170.75 FEET
EQUATIONS AND EXCEPTIONS:	

TOTAL CORRECTIONS	0 FEET
NET LENGTH OF PROJECT	170.75 FEET
STATE LENGTH	0.032 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0.005 ACRES



GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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 DATE PREPARED
 8/2/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

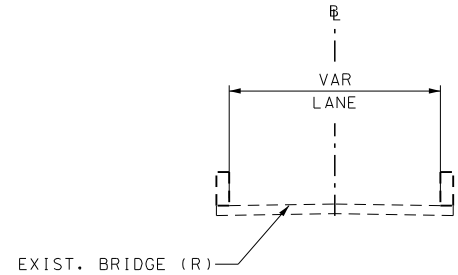
COUNTY
 COLE

JOB NO.
 JCD0075

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



EXIST. TYPICAL SECTION
 RTE. 50 OVERPASS
 BRIDGE NO. A1418

① ————— LOG MILE 0.003 - LOG MILE 0.035

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GBA

16305 SWINGLEY RIDGE RD
 ST. 300
 CHESTERFIELD, MO 63017
 314.231.0100
 GBAteam.com

GEORGE BUTLER
 ASSOCIATES, INC.
 PRO. ENGINEER 000133
 ARCHITECT 000212
 PRO. LAND SURVEYOR 000059

TYPICAL SECTION
 BRIDGE A1418
 OVER RTE. 50
 SHEET 1 OF 1

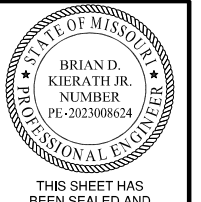
BRIAN KIERATH
 PROFESSIONAL
 ENGINEER
 PE-2023008624

REMOVAL OF IMPROVEMENTS					
SHEET NO.	ROADWAY	SIDE	ITEM	QUANTITY	UNIT
4	EB RTE. 50 OFF RAMP	LT	EXISTING SIGN ASSEMBLY	2	EA
4	EB RTE. 50	RT	EXISTING CONCRETE SLOPE PROTECTION	420	SY
4	WB RTE. 50	RT	EXISTING CONCRETE SLOPE PROTECTION	546	SY
4	WB RTE. 50 ON RAMP	LT	EXISTING MANHOLE	1	EA
4	WB RTE. 50 ON RAMP	LT	EXISTING LIGHT POLE	1	EA
4	WB RTE. 50 ON RAMP	LT	EXISTING GUIDE SIGN	1	EA
4	WB RTE. 50 ON RAMP	LT	EXISTING R3-2 SIGN	1	EA
4	WB RTE. 50 ON RAMP	LT	EXISTING STORM SEWER PIPE	66	LF
4	BRIDGE A1418	BL	BRIDGE A1418	1	EA
5	EB RTE. 50 OFF RAMP	LT	EXISTING TYPE B CONCRETE BARRIER	61	LF
5	EB RTE. 50 OFF RAMP	LT	SAWCUT CONCRETE APPROACH PAVEMENT	57	LF
5	EB RTE. 50 OFF RAMP	LT	EXISTING CONCRETE APPROACH PAVEMENT	0	SY
5	WB RTE. 50 ON RAMP	LT	EXISTING GUARDRAIL	42	LF
5	WB RTE. 50 ON RAMP	LT	EXISTING GUARDRAIL END ANCHOR	1	EA
5	WB RTE. 50 ON RAMP	LT	EXISTING GUARDRAIL	25	LF
5	WB RTE. 50 ON RAMP	LT	EXISTING GUARDRAIL END ANCHOR	1	EA
5	WB RTE. 50 ON RAMP	LT	SAWCUT CONCRETE APPROACH PAVEMENT	95	LF
5	WB RTE. 50 ON RAMP	LT	SAWCUT CONCRETE APPROACH PAVEMENT	93	LF
5	WB RTE. 50 ON RAMP	LT	EXISTING CONCRETE APPROACH PAVEMENT	24	SY
5	WB RTE. 50 ON RAMP	LT	EXISTING CONCRETE APPROACH PAVEMENT	151	SY
			PROJECT TOTAL	1	LS

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM
REMOVAL OF BRIDGES
1 LUMP SUM

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THIS SHEET HAS BEEN SEALED AND DATED ELECTRONICALLY
 DATE PREPARED: 9/13/2024
 ROUTE: 50 | STATE: MO
 DISTRICT: CD | SHEET NO.: 3
 COUNTY: COLE
 JOB NO.: JCD0075
 CONTRACT ID:

DRAINAGE			
SHEET NO.	ROADWAY	SIDE	PLUGGING OF DRAINAGE PIPE (EA)
4	WB RTE. 50 ON RAMP	LT	1
		PROJECT TOTAL	1

SHOULDER			
SHEET NO.	ROADWAY	SIDE	TYPE A2 SHOULDER (SY)
5	WB RTE. 50 ON RAMP	LT	23.2
		PROJECT TOTAL	23.2

BRIDGE REMOVAL			
SHEET NO.	ROADWAY	SIDE	REMOVAL OF MISC. ACM (NON-FRIABLE) (SQFT)
4	BRIDGE A1418	BL	17
		PROJECT TOTAL	17

GUARDRAIL							
SHEET NO.	ROADWAY	BRIDGE	LOCATION	SIDE	MGS GUARDRAIL (LF)	MGS GUARDRAIL REMOVAL AND RESET (LF)	"SHAPING SLOPES CLASS III" (MODIFIED) (100FT)
4	EB RTE. 50	A1418	OUTSIDE SHOULDER	RT	-	125	-
4	WB RTE. 50	A1418	OUTSIDE SHOULDER	RT	-	125	-
5	WB RTE. 50 ON RAMP	A1418	OUTSIDE SHOULDER	LT	187.5	-	2
			PROJECT TOTAL		188	250	2

CONCRETE BARRIER					
SHEET NO.	ROADWAY	BRIDGE	LOCATION	SIDE	CONCRETE TRAFFIC BARRIER, TYPE B (LF)
5	EB RTE. 50 OFF RAMP	A1418	INSIDE SHOULDER	LT	62
			PROJECT TOTAL		62

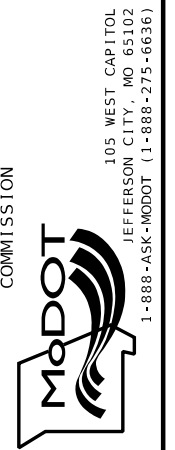
ROCK BLANKET							
SHEET NO.	ROADWAY	BRIDGE	LOCATION	SIDE	FURNISHING TYPE 2 ROCK BLANKET (CY)	PLACING TYPE 2 ROCK BLANKET (CY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)
4	EB RTE. 50	A1418	SOUTH BRIDGE BERM	LT	280	280	420
4	WB RTE. 50	A1418	NORTH BRIDGE BERM	LT	364	364	546
			PROJECT TOTAL		644	644	966

LINEAR GRADING					
SHEET NO.	ROADWAY	BRIDGE	LOCATION	SIDE	LINEAR GRADING CLASS 2 (STA)
4	EB RTE. 50	A1418	NORTH BRIDGE BERM	LT	1.1
4	WB RTE. 50	A1418	SOUTH BRIDGE BERM	LT	1.1
			PROJECT TOTAL		2.2

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



GBA
 16305 SWINGLEY RIDGE RD.
 ST. 300
 CHESTERFIELD, MO 63017
 314.231.0100
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GEORGE BUTLER
 ASSOCIATES, INC.
 PRO. ENGINEER 000133
 ARCHITECT 000212
 PRO. LAND SURVEYOR 000059

QUANTITIES
 SHEET 1 OF 2

BRIAN KIERATH
 PROFESSIONAL
 ENGINEER
 PE-2023008624



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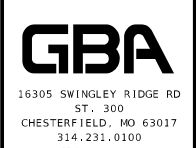
DATE PREPARED 8/2/2024 ROUTE 50 STATE MO DISTRICT CD SHEET NO. 3

COUNTY COLE JOB NO. JCD0075 CONTRACT ID.

PROJECT NO. BRIDGE NO.

Table with columns: DESCRIPTION, DATE

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



GEORGE BUTLER ASSOCIATES, INC. PRO. ENGINEER 000133 ARCHITECT 000212 PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSSEL PROFESSIONAL ENGINEER PE-2018024421

Table with columns: SIGN, SIZE IN., AREA SQ. FT., QTY EACH, TOTAL AREA SQ. FT., QTY RELOC EACH, TOTAL RELOC SQ. FT., SIGN NUM., DESCRIPTION

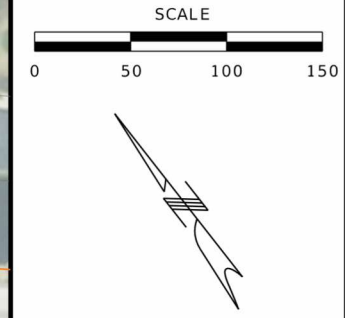
Table with columns: SIGN, SIZE IN., AREA SQ. FT., QTY EACH, TOTAL AREA SQ. FT., QTY RELOC EACH, TOTAL RELOC SQ. FT., SIGN NUM., DESCRIPTION

Table with columns: ITEM NUMBER, TOTAL QTY, DESCRIPTION

FOR INFORMATION ONLY ALL TEMPORARY TRAFFIC CONTROL QUANTITIES SHOWN ARE FOR INFORMATION ONLY. QUANTITIES FOR TEMPORARY TRAFFIC CONTROL SHALL BE INCLUDED FOR BID WITH PROJECT J5P3523.

TEMPORARY TRAFFIC CONTROL QUANTITIES SHEET 2 OF 2

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 DATE PREPARED: 8/2/2024
 ROUTE: 50 STATE: MO
 DISTRICT: CD SHEET NO.: 4
 COUNTY: COLE
 JOB NO.: JCD0075
 CONTRACT ID:

PROJECT NO.:
 BRIDGE NO.:

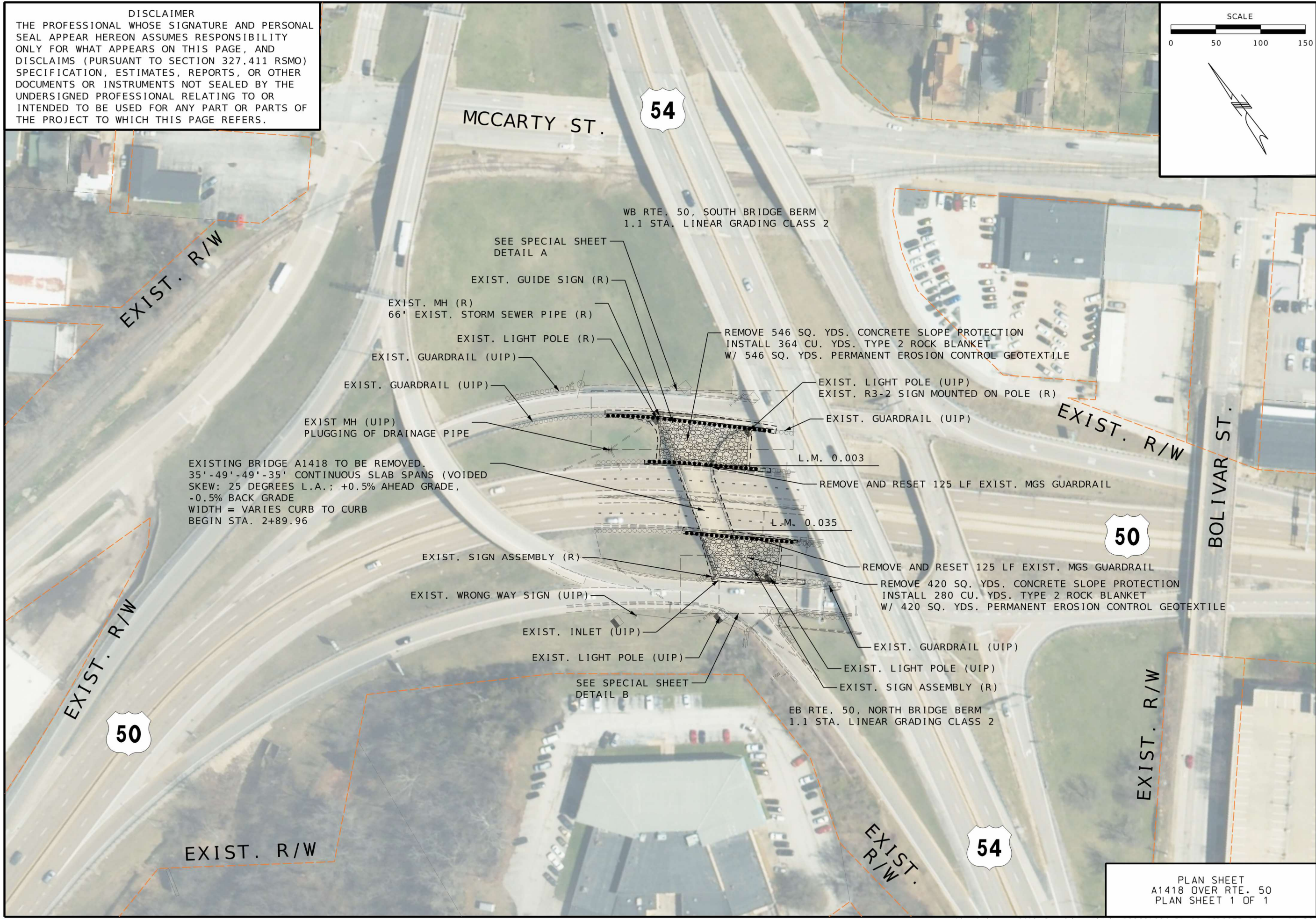
DATE	DESCRIPTION

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

GBA
 16305 SWINGLEY RIDGE RD ST. 300
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 314.231.0100
 gba@team.com

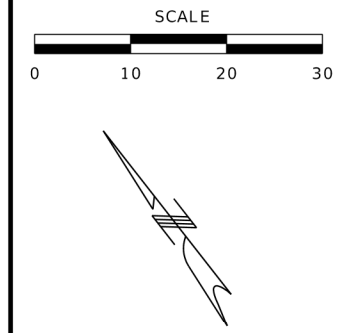
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 PRO. LAND SURVEYOR 000059

BRIAN KIERATH PROFESSIONAL ENGINEER
 PE-2023008624

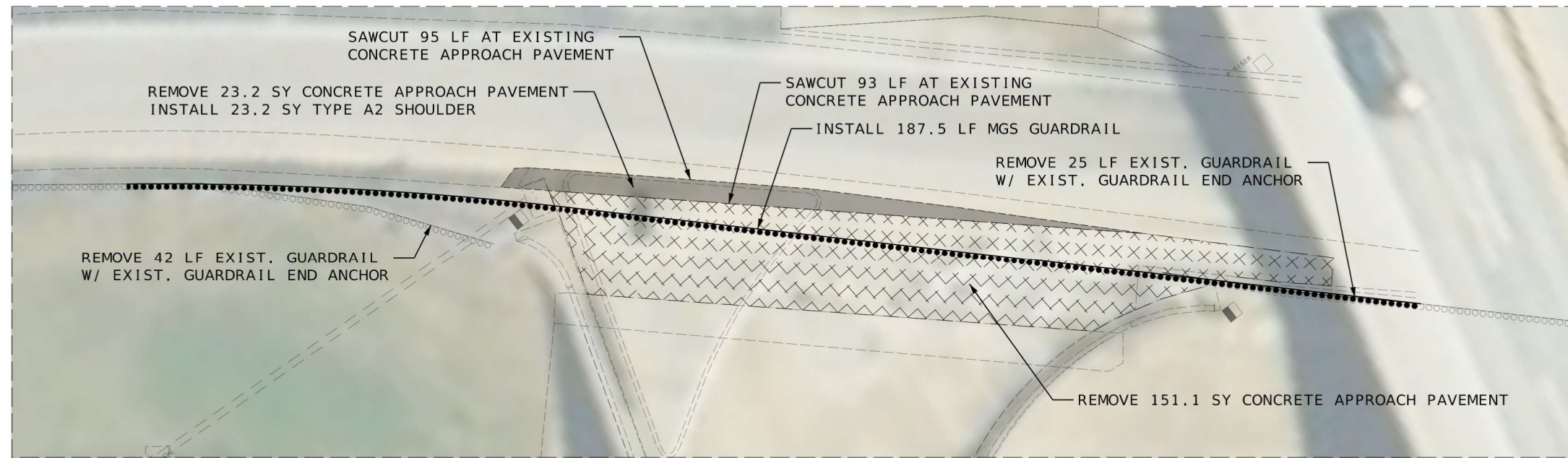


PLAN SHEET
 A1418 OVER RTE. 50
 PLAN SHEET 1 OF 1

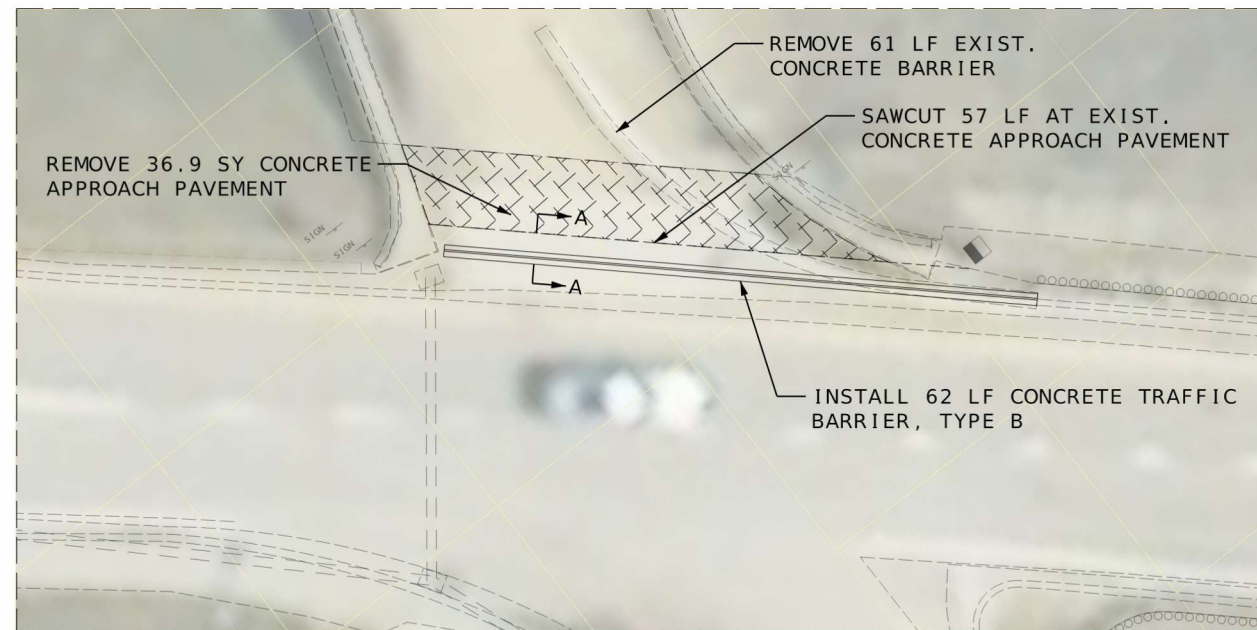
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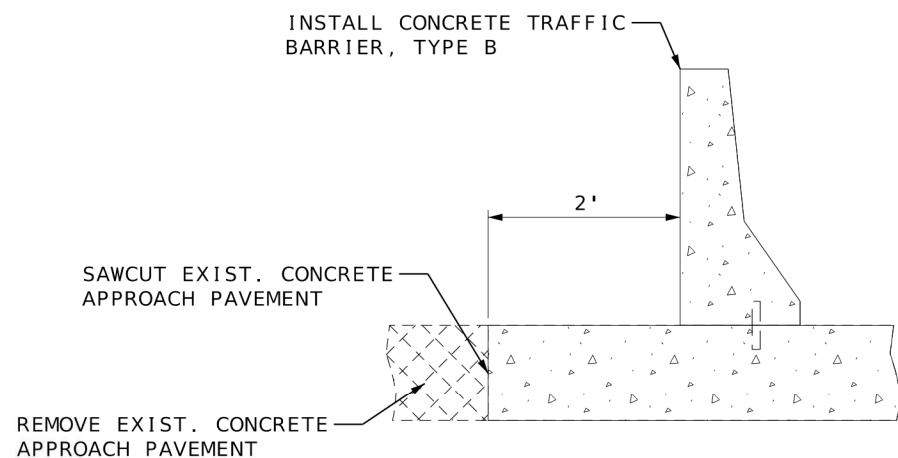
THIS SHEET HAS BEEN SEALED AND DATED ELECTRONICALLY
 DATE PREPARED: 8/2/2024
 ROUTE: 50 STATE: MO
 DISTRICT: CD SHEET NO.: 5
 COUNTY: COLE
 JOB NO.: JCD0075
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:



DETAIL A



DETAIL B



SECTION A-A

SPECIAL SHEET
 A1418 OVER RTE. 50
 DETAILS
 SHEET 1 OF 1

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
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GEORGE BUTLER ASSOCIATES, INC.
 PRO. ENGINEER 000133
 ARCHITECT 000212
 PRO. LAND SURVEYOR 000059

BRIAN KIERATH PROFESSIONAL ENGINEER PE-2023008624

ROAD WORK
NEXT 2 MILES

GO20-1

1



WO20-1

2

BRIDGE
OR
RAMP

SPEED
LIMIT
40

R2-1

4



WO20-5

5

CENTER LANE
OR
LEFT LANE



WO20-6a

6

CENTER
OR
LEFT



WO4-1aR

6A



WO4-1aL

6A



WO20-2

18



WO20-3

20



WO21-5

21

SPEED
LIMIT
65

R2-1 (NORMAL SPEED)
(USE POSTED SPEED PRIOR
TO CONSTRUCTION)

25

END
ROAD WORK

GO20-2

26

ROAD
CLOSED

R11-2

29

WORK
ZONE

GO20-5aP

54



WO12-1

55

LEFT LANE
MUST
TURN LEFT

R3-7L

56

RIGHT LANE
MUST
TURN RIGHT

R3-7R

57

ROAD CLOSED
TO
THRU TRAFFIC

R11-4

58



R3-2

59



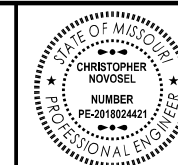
R3-1

60

SIDEWALK
CLOSED

R9-9

62



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DATE PREPARED

8/2/2024

ROUTE STATE

50 MO

DISTRICT SHEET NO.

CD 6

COUNTY

COLE

JOB NO.

JCD0075

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)

GBA

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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SIGNING LEGEND
SHEET 1 OF 1

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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DATE PREPARED
8/2/2024

ROUTE 50 STATE MO

DISTRICT CD SHEET NO. 7

COUNTY COLE

JOB NO. JCD0075

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)

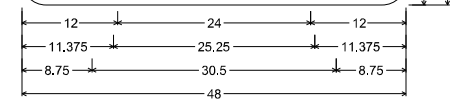
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CHRISTOPHER NOVOSSEL
PROFESSIONAL ENGINEER
PE-2018024421

2*



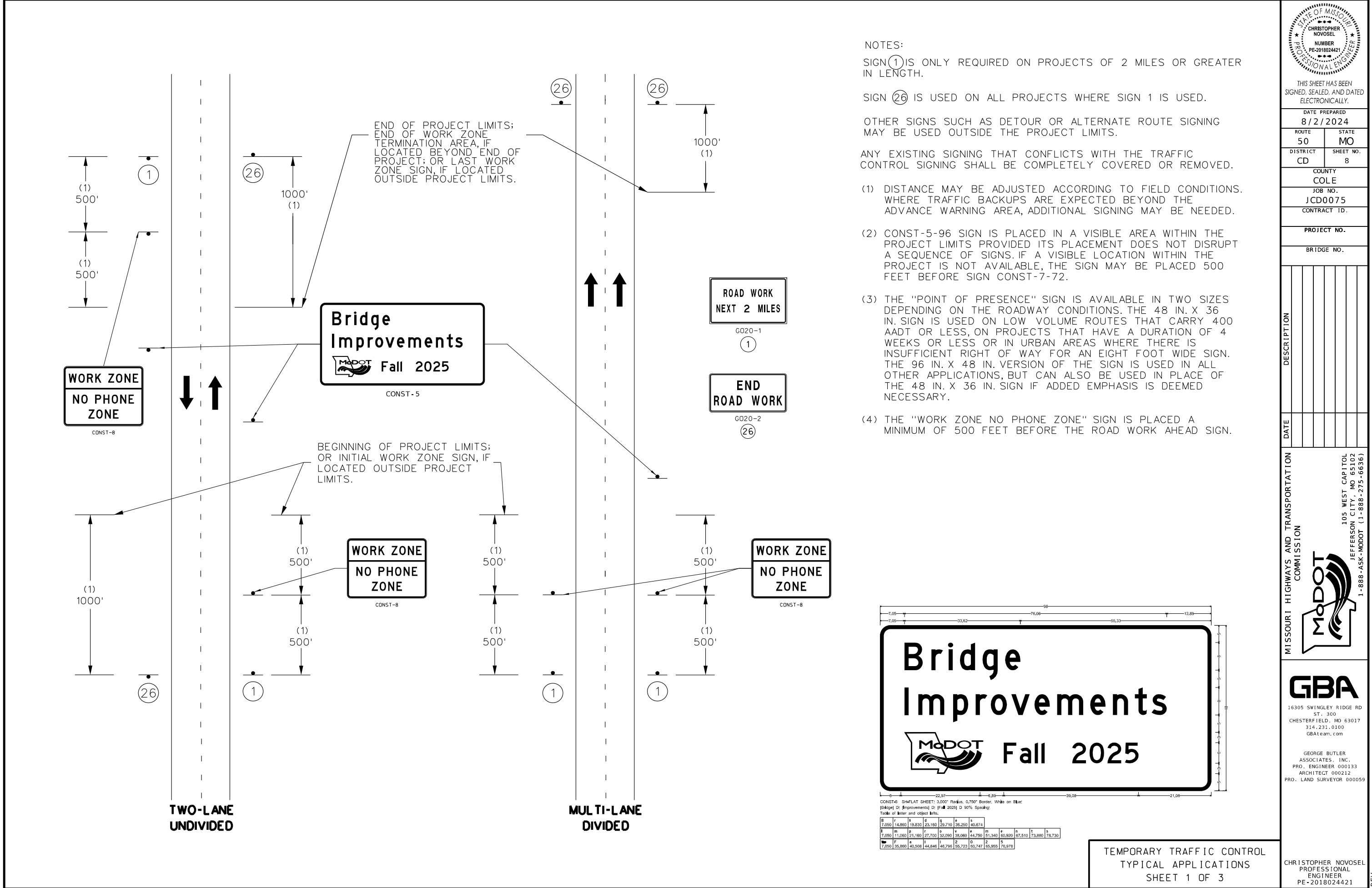
W020-1 SHF-FLAT SHEET FLUORESCENT;
3.000" Radius, 1.000" Border, 0.750" Indent, Black on, Orange;
"ROAD", D; "WORK", D; "AHEAD", D;

Table of letter and object letter

R	O	A	D	
12.000	18.000	24.250	31.375	
W	H	E	K	
11.375	18.875	25.375	31.750	
A	H	E	A	D
8.750	15.875	22.250	27.375	34.500

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SIGNING DETAIL SHEETS
BARRIER MOUNTED SIGNS
SHEET 1 OF 1



NOTES:
SIGN (1) IS ONLY REQUIRED ON PROJECTS OF 2 MILES OR GREATER IN LENGTH.
SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN 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 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 CONST-7-72.
- (3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON THE 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 RIGHT OF WAY FOR AN 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.



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DATE PREPARED 8/2/2024	
ROUTE 50	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY COLE	
JOB NO. JCD0075	
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)

Bridge Improvements

Fall 2025

CONST-5 SH-FLAT SHEET: 3/000" Radius, 0.750" Border, White on Blue

[B] [48pt] D: [Improvements] D: [Fall 2025] D: 90% Spacing

Table of letter and object heights:

S	P	S	S	S	S	S	S	S
7,050	14,880	19,830	23,160	29,710	36,250	40,674		

I	m	p	r	o	v	e	m	e	n	t	s
7,050	11,280	21,180	27,700	32,090	38,080	44,750	51,340	60,920	67,510	73,880	78,730

F	S	E	S	S	S	S	S
7,050	35,880	40,508	44,846	46,796	55,723	60,747	65,955

TEMPORARY TRAFFIC CONTROL
TYPICAL APPLICATIONS
SHEET 1 OF 3

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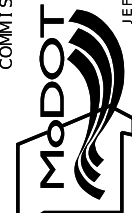
ROUTE 50 STATE MO
DISTRICT CD SHEET NO. 9

COUNTY COLE
JOB NO. JCD0075
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

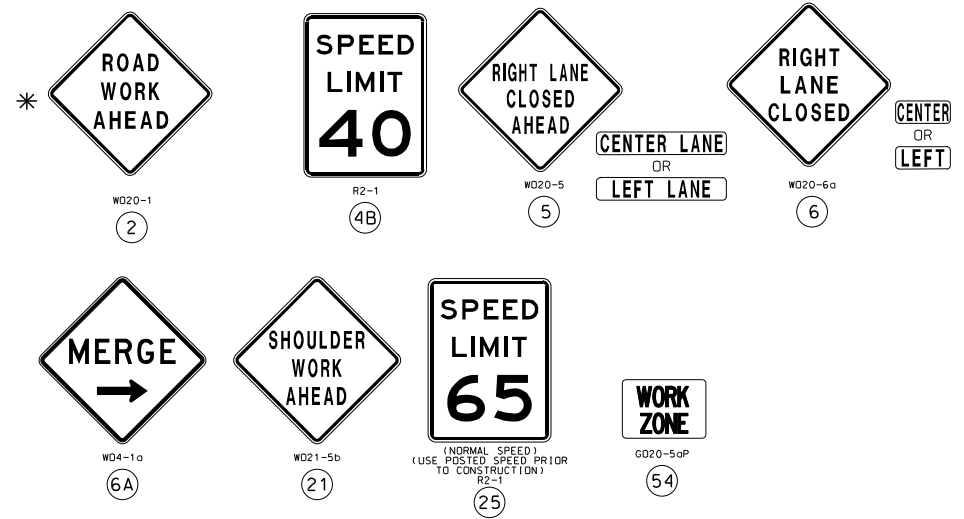
DATE	DESCRIPTION

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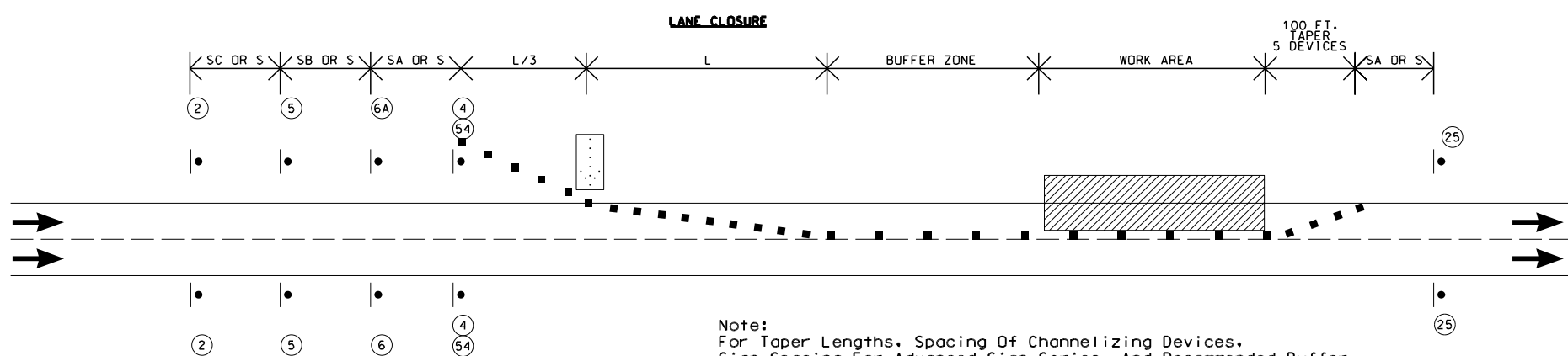
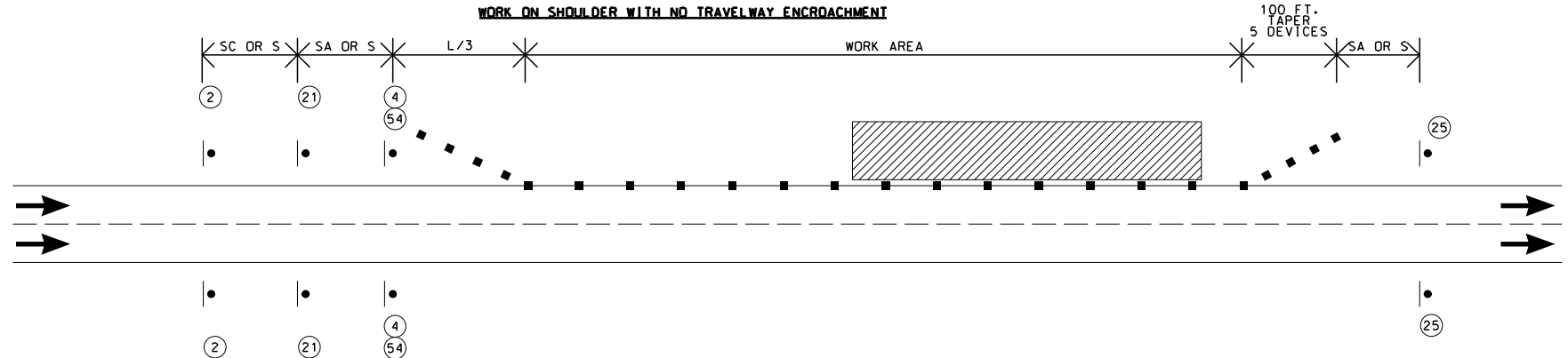
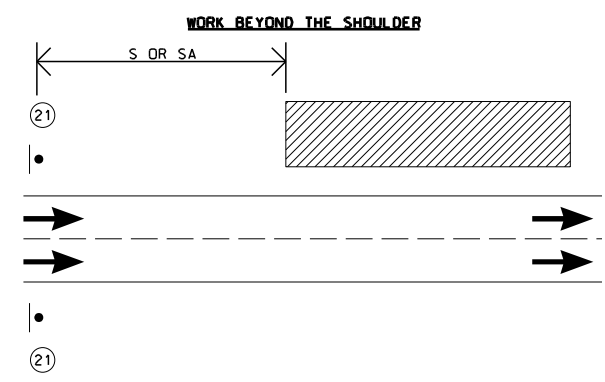
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*NOTE: INCLUDE ADVANCED WARNING RAIL SYSTEM WITH W020-1



Note:
 For Taper Lengths, Spacing Of Channelizing Devices, Sign Spacing For Advanced Sign Series, And Recommended Buffer Lengths, See Next Sheet
 Speed Limit Signs (4) and (25) Shown For Typical Application To Be Used Only On US-50 and US-54. Refer To Traffic Control Phasing Plans for Specified Locations Of Speed Limit Signs.

TEMPORARY TRAFFIC CONTROL
 TYPICAL APPLICATIONS
 SHEET 2 OF 3

SPACING AND TAPER LENGTHS FOR WORK ZONE SIGNS, CHANNELIZERS AND CONCRETE BARRIER

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

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

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

NOTES:

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



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DATE PREPARED		8/2/2024	
ROUTE	STATE	MO	
DISTRICT	SHEET NO.	10	
COUNTY			
COLE			
JOB NO.			
JCD0075			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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TEMPORARY TRAFFIC CONTROL
TYPICAL APPLICATIONS
SHEET 3 OF 3

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ROUTE 50 STATE MO
 DISTRICT CD SHEET NO. 11

COUNTY COLE
 JOB NO. JCD0075
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

PHASE	BRIDGE(S)	WORK TO BE COMPLETED	SHEETS
PHASE 1	A1418	A1418 BRIDGE REMOVAL OVER US-50	12 - 19
PHASE 2	A1418	REINSTALLATION OF GUARDRAIL AND EMBANKMENT WORK ON US-50	9 (TYPICAL APPLICATION)

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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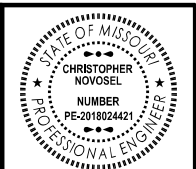
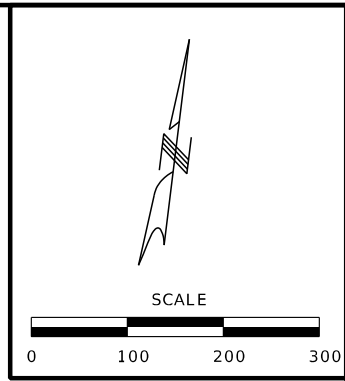
TEMPORARY TRAFFIC CONTROL
 PHASE SCHEDULE
 SHEET 1 OF 1

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- CHANNELIZER
- ▤ TYPE III BARRICADE
- ▩ CHANGEABLE MESSAGE BOARD



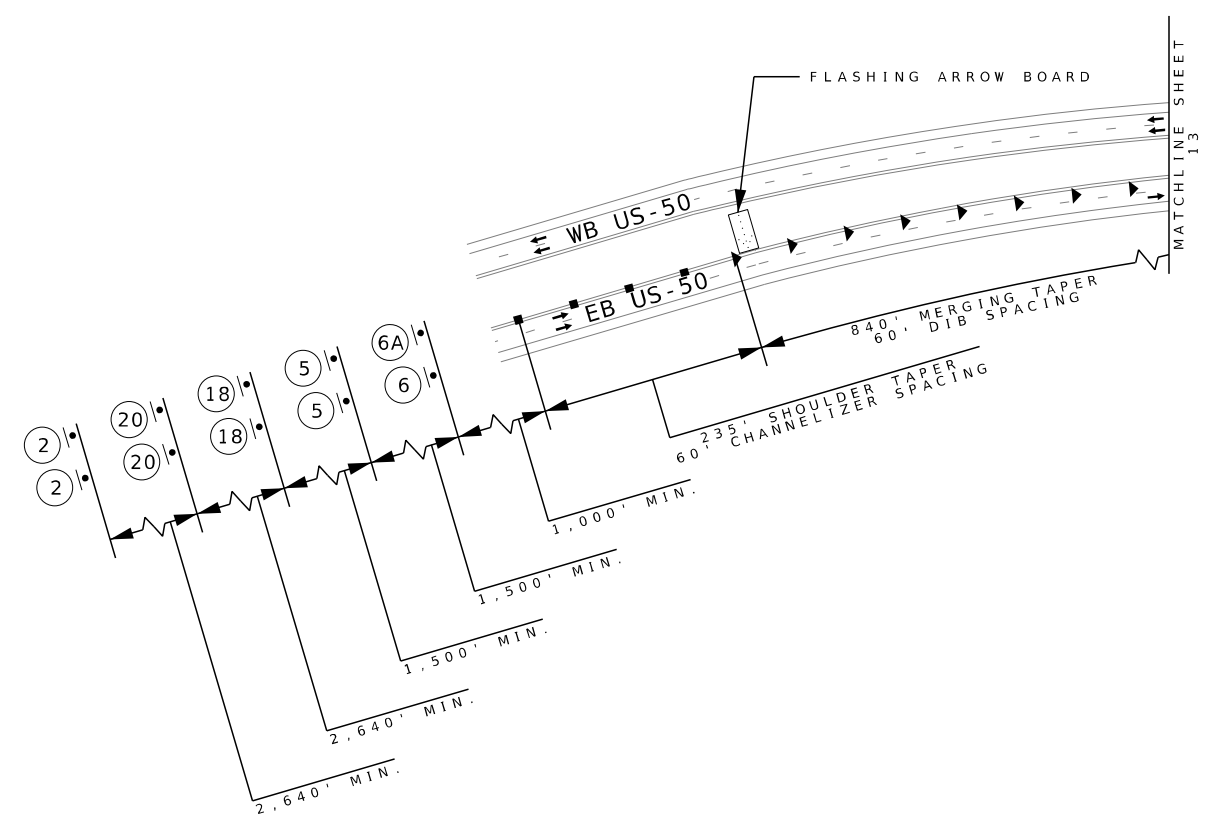
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 DISTRICT: CD, SHEET NO.: 12

COUNTY: COLE
 JOB NO.: JCD0075
 CONTRACT ID.:

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 BRIDGE NO.:

DATE	DESCRIPTION



A1418 TRAFFIC CONTROL PLAN
 PHASE 1
 SHEET 1 OF 6

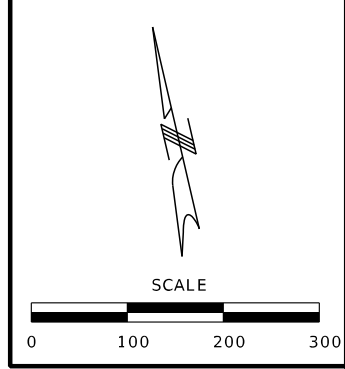
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 - ⌊ TYPE III BARRICADE
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DISTRICT CD	SHEET NO. 13

COUNTY
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CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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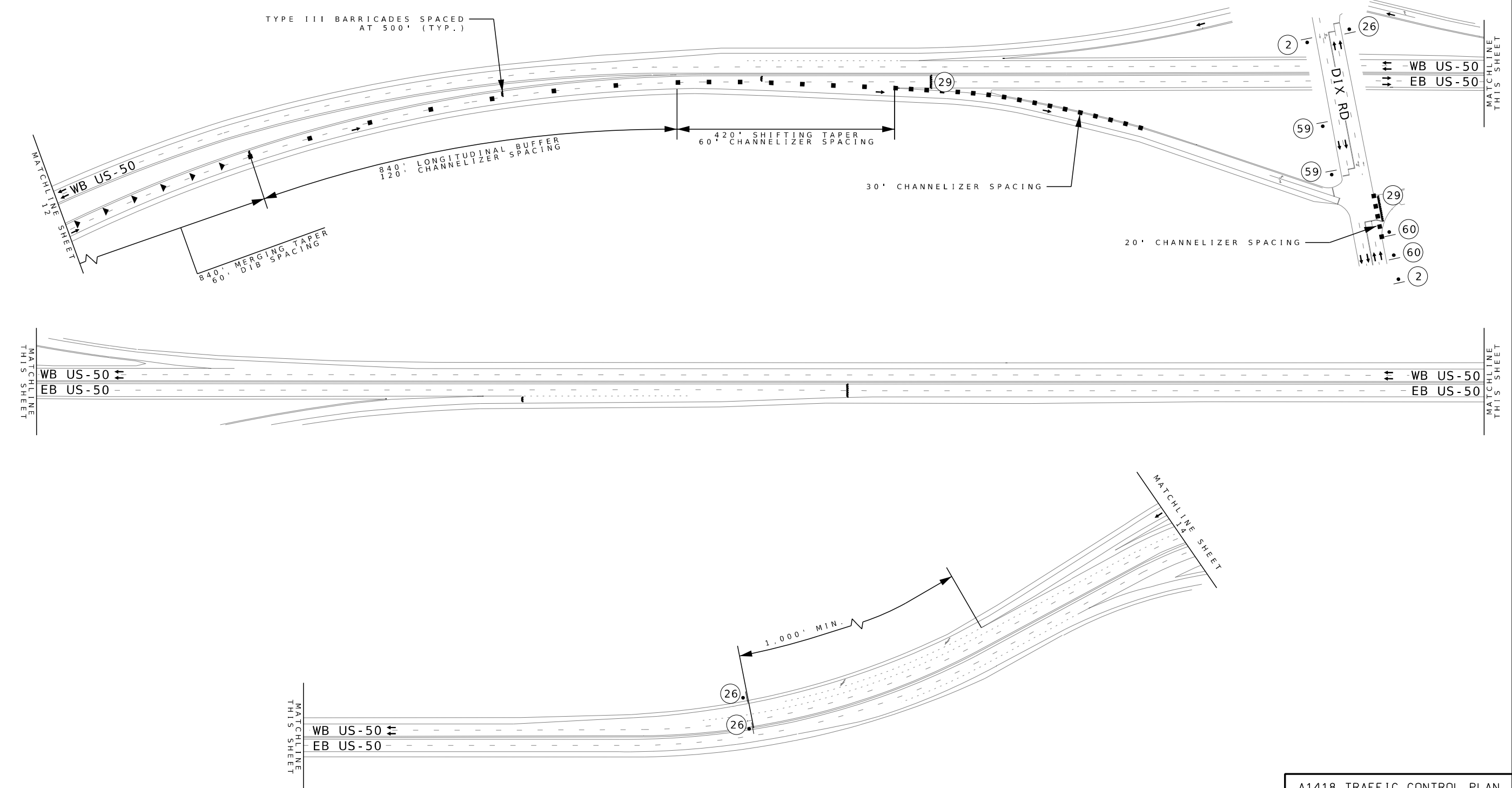
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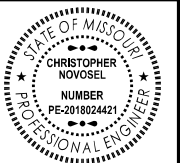
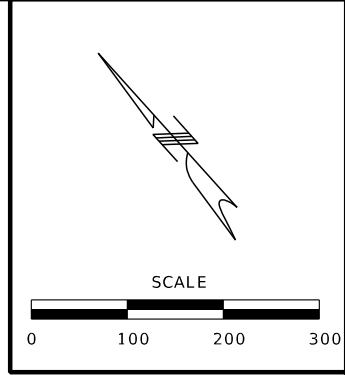
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A1418 TRAFFIC CONTROL PLAN
 PHASE 1
 SHEET 2 OF 6

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 - ◆ TUBULAR MARKER
 - ⚡ TYPE III BARRICADE
 - ☒ CHANGEABLE MESSAGE BOARD



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PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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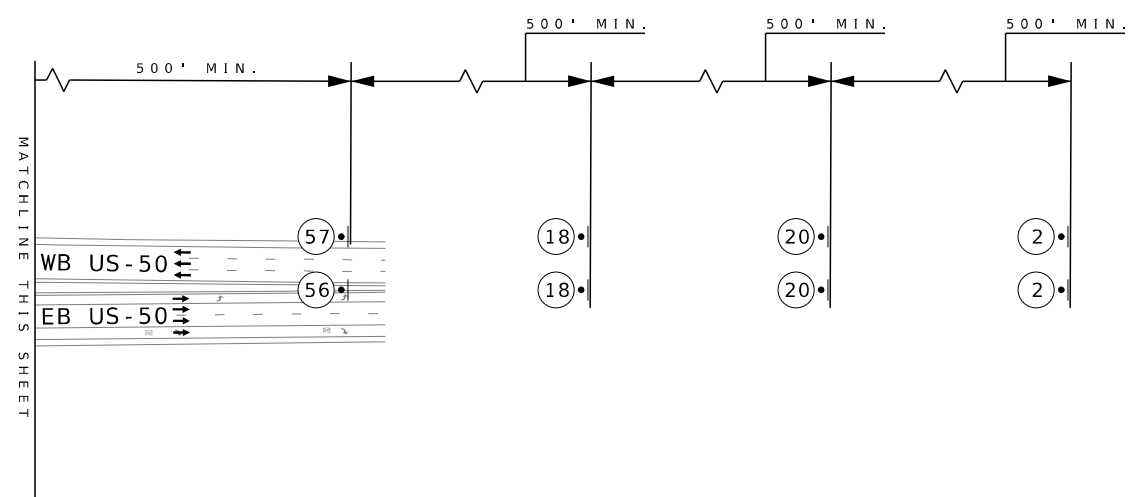
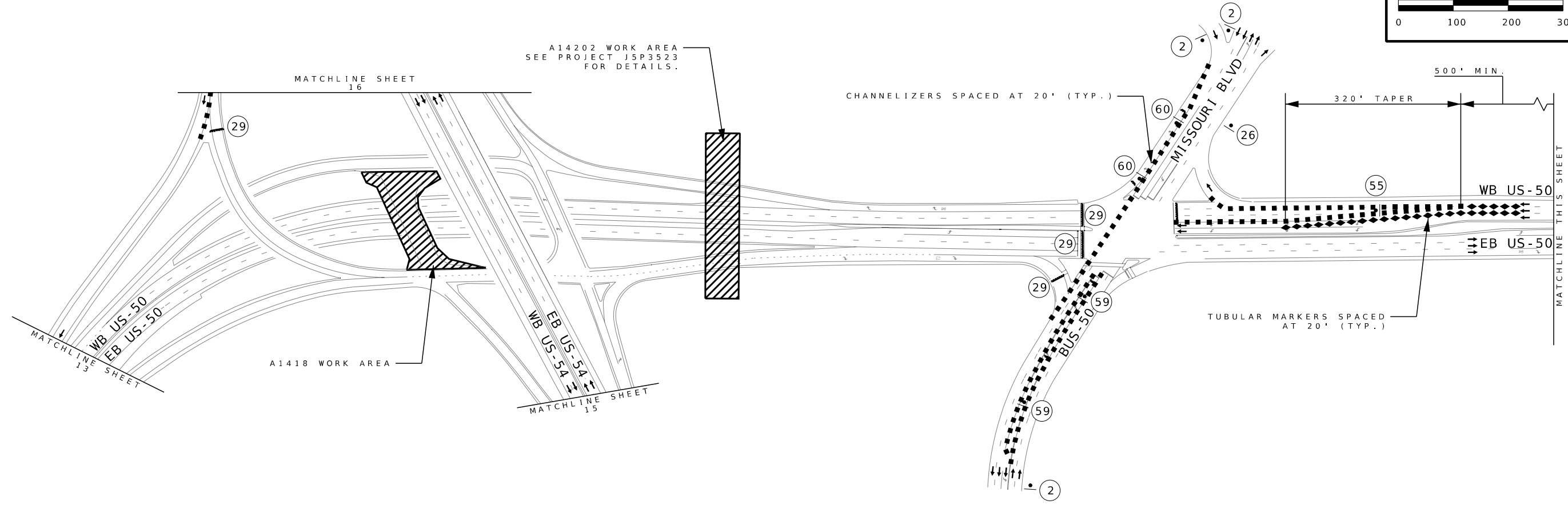
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A1418 TRAFFIC CONTROL PLAN
 PHASE 1
 SHEET 3 OF 6

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ROUTE 50	STATE MO
DISTRICT CD	SHEET NO. 15

COUNTY
 COLE

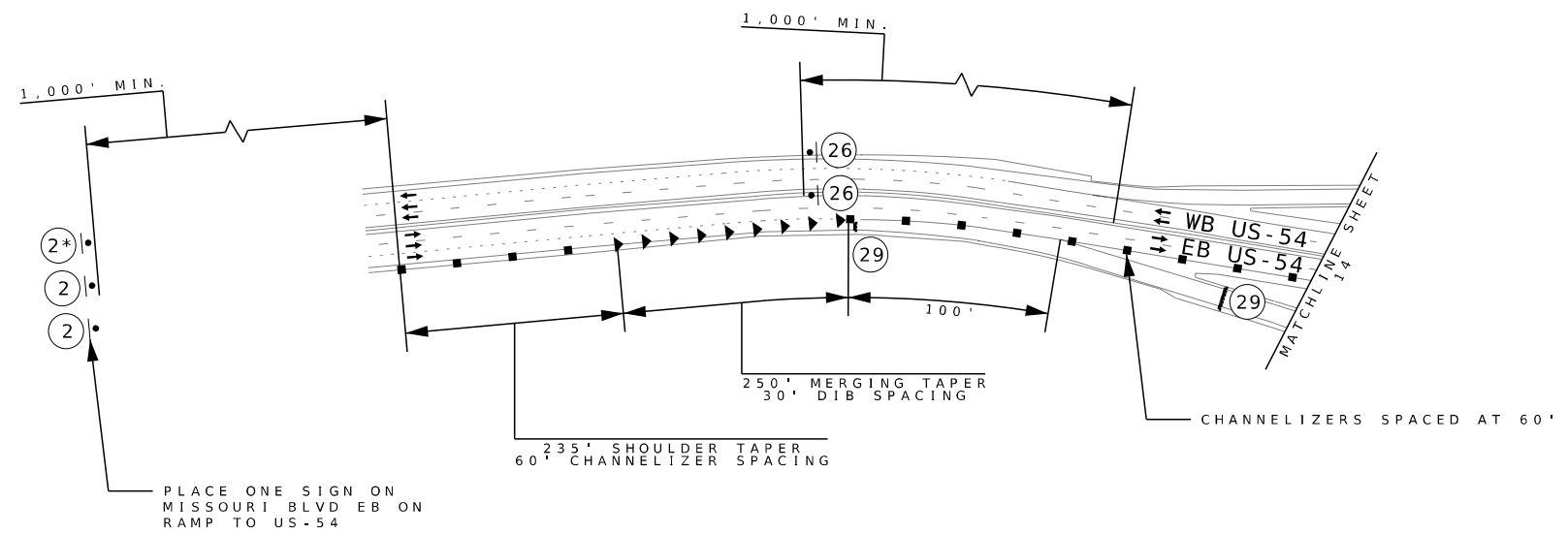
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PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



PLACE ONE SIGN ON MISSOURI BLVD EB ON RAMP TO US-54

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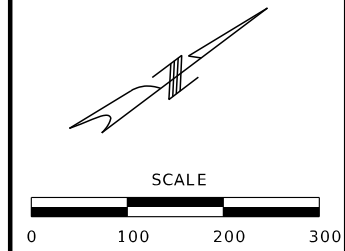
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A1418 TRAFFIC CONTROL PLAN
 PHASE 1
 SHEET 4 OF 6

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ROUTE 50	STATE MO
DISTRICT CD	SHEET NO. 16

COUNTY
 COLE

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PROJECT NO.

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DATE	DESCRIPTION

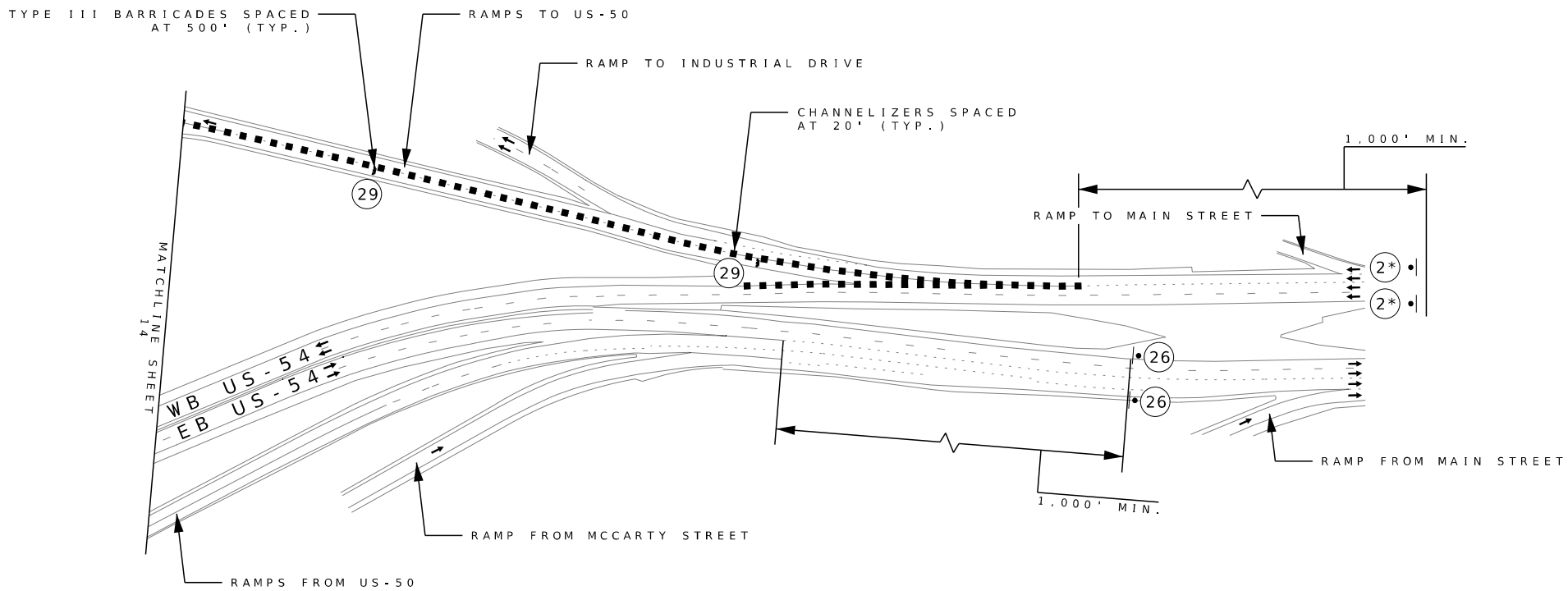
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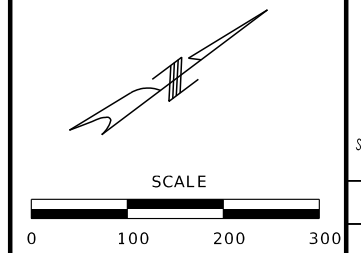


A1418 TRAFFIC CONTROL PLAN
 PHASE 1
 SHEET 5 OF 6

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DISTRICT CD	SHEET NO. 17

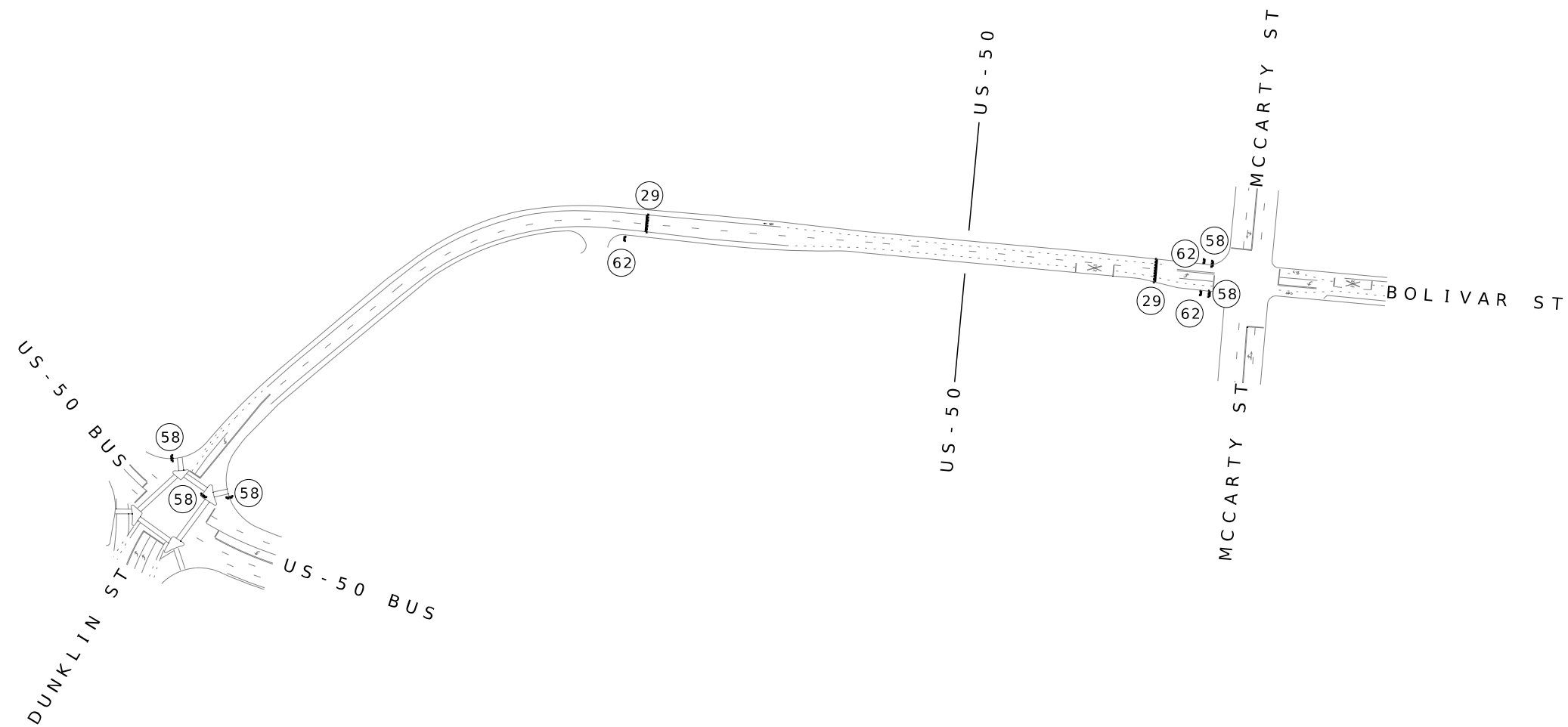
COUNTY
 COLE

JOB NO.
 JCD0075

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



DATE	DESCRIPTION

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A1418 TRAFFIC CONTROL PLAN
 PHASE 1
 SHEET 6 OF 6

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ROUTE 50 STATE MO
 DISTRICT CD SHEET NO. 18

COUNTY
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66A	66B	66C	66D	66E	66F	66G

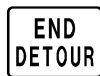


WO20-2 (18)

67A	67B	67C	67D	67E	67F	67G



R11-2 (29)



MO4-8a (52)

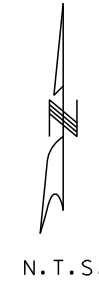
68A	68B	68C	68D	68E	68F	68G

69A	69B	69C	69D	69E	69F	69G

SUMMARY OF SPECIAL DETOUR SIGN QUANTITIES	
SIGN DESIGNATION	PROJECT QUANTITY
66A	3
66B	3
66C	4
66D	4
66E	1
66F	1
66G	11
67A	1
67B	1
67C	0
67D	0
67E	5
67F	5
67G	6
68A	1
68B	1
68C	1
68D	1
68E	3
68F	3
68G	6
69A	1
69B	1
69C	2
69D	2
69E	2
69F	2
69G	6

A1418 DETOUR SIGNING
 SHEET 1 OF 1

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 8/2/2024
 ROUTE 50 STATE MO
 DISTRICT CD SHEET NO. 19

COUNTY COLE
 JOB NO. JCD0075
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

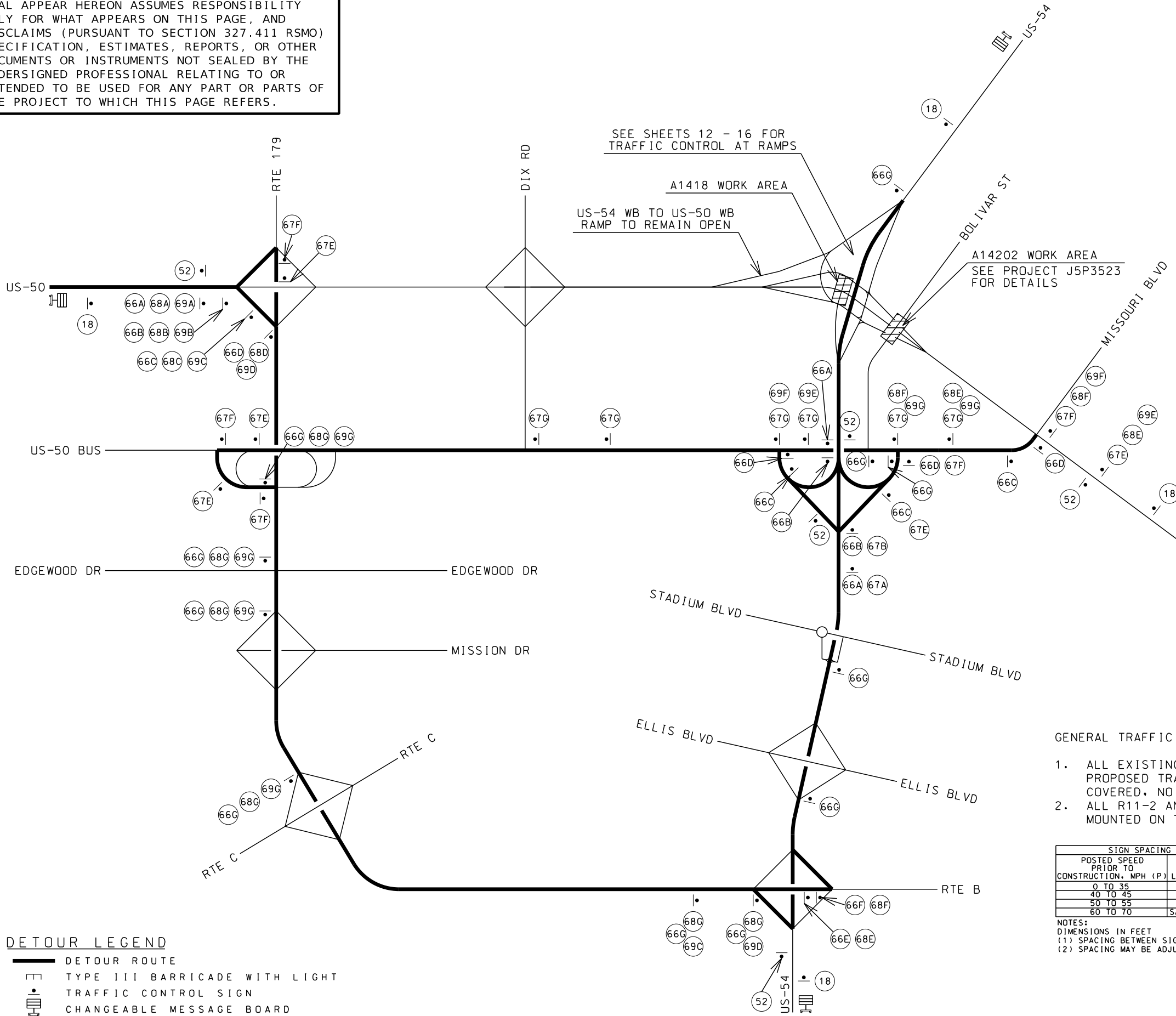
DATE	DESCRIPTION

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

GBA
 16305 SWINGLEY RIDGE RD ST. 300
 CHESTERFIELD, MO 63017
 314.231.0100
 GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
 PRO. ENGINEER 000133
 ARCHITECT 000212
 PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
 PROFESSIONAL ENGINEER
 PE - 2018024421



- GENERAL TRAFFIC CONTROL NOTES:
- ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED. NO DIRECT PAY.
 - ALL R11-2 AND R11-4 SIGNS SHALL BE MOUNTED ON TYPE III BARRICADE.

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

NOTES:
 DIMENSIONS IN FEET
 (1) SPACING BETWEEN SIGNS, BEGINNING OF TAPER OR SIGNED CONDITION.
 (2) SPACING MAY BE ADJUSTED TO MEET FIELD CONDITIONS.



PHASE 1 DETOUR PLAN
 SHEET 1 OF 1