

DESIGN DESIGNATION

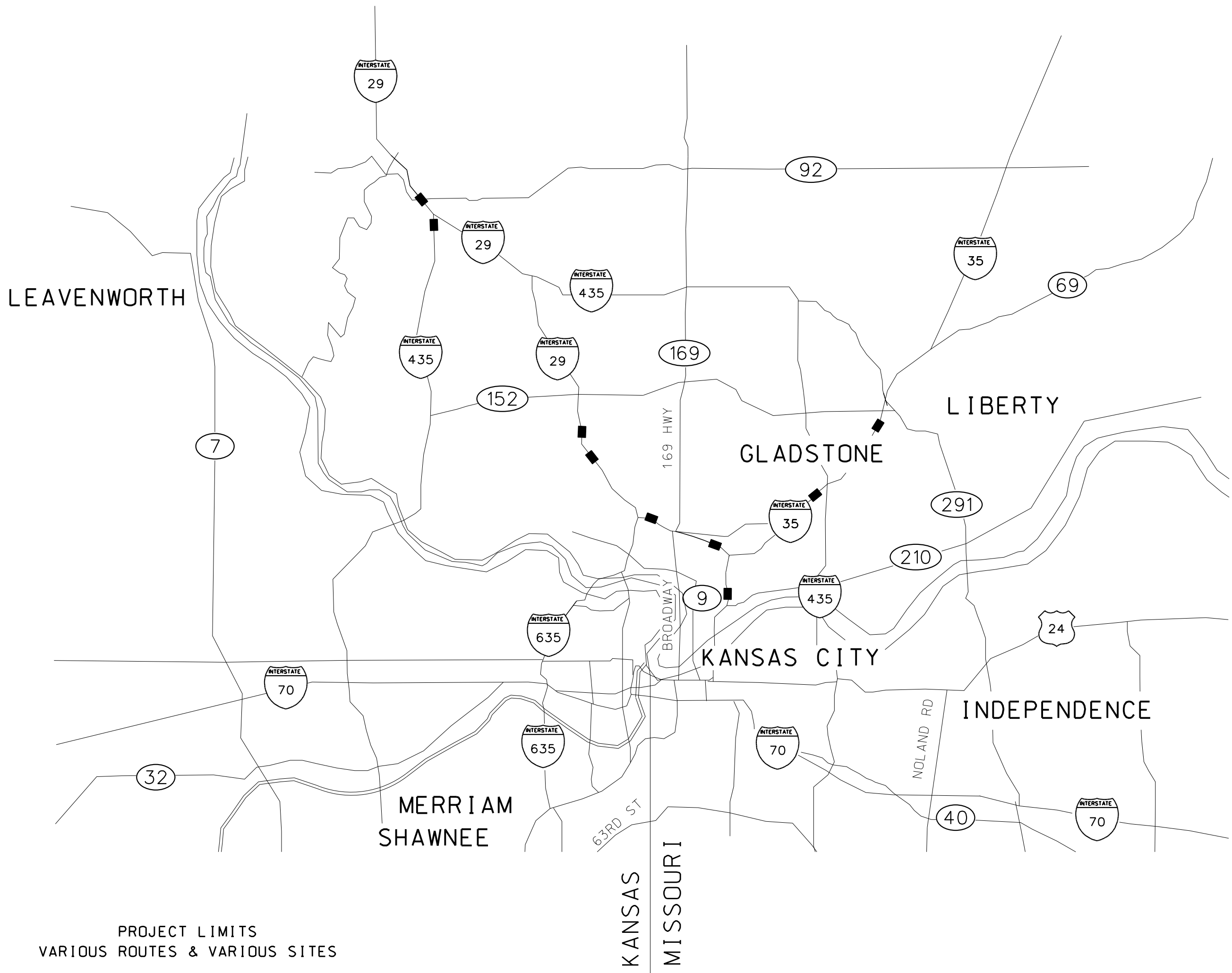
A.A.D.T. - 2025 = XX.XXX
A.A.D.T. - 2045 = XX.XXX
D.H.V. = XX%
T = XX%
V = XX M.P.H.

FUNCTIONAL CLASSIFICATION

NO RIGHT OF WAY
TO BE ACQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)
SEE LEGEND SHEET

NORTHLAND ITS DEVICE EXPANSION
FOR
KANSAS CITY SCOUT
AND
THE MISSOURI DEPARTMENT OF TRANSPORTATION
PLATTE AND CLAY COUNTIES, MISSOURI



PROJECT LIMITS
VARIOUS ROUTES & VARIOUS SITES

PROJECT SITES: ■

NOT TO SCALE

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
QUANTITIES (QU) (2 SHEETS)-----	2-3
SPECIAL SHEETS (SS)-----	4-5
SIGNAL/ITS (SG)-----	6-15
ITS DETAILS (SS)-----	16-29
TRAFFIC CONTROL SHEETS (TC)-----	30-35
CULVERT SECTIONS (CS)-----	-



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 1
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
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)

LENGTH OF PROJECT

THE PROJECT WORK IS AT VARIOUS LOCATIONS
ALONG VARIOUS ROUTES. LENGTHS PROVIDED
ARE FROM FIRST LOCATION TO LAST LOCATION
ALONG THE ROUTE.

olsson

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

CONDUIT AND CABLE ROUTING TABLE																	
SHEET NO.	CONDUIT				CABLE												
	TRENCHED		PUSHED		POWER					BARE GROUND	FIBER OPTIC CABLE			OTHER CABLES			
	1	1 1	5	5 5	1	2	3	4	2	#	1	2	3	1	2	3	4
	2"	2-2"	2"	2-2"	2-1/C#8	2-1/C#6**	2-1/C#4	2-1/C#2**	3-1/C#8	1-1/C#6	6 MMFO	12 SMFO	48 SMFO	DMS CABLE	CAT6E CABLE*	WIRELESS CABLE	RADAR CABLE
8	1011	0	128	0	0	748	0	0	0	713	0	525	2500	0	77	0	0
9	3502	0	627	0	0	238	0	91	0	206	0	4170	0	0	77	0	0
12	142	0	50	0	0	0	0	0	0	0	0	386	0	0	0	0	0
TOTAL:	4655	0	805	0	0	986	0	91	0	919	0	5081	2500	0	154	0	0

*INCIDENTAL TO CAMERA INSTALLATION

**FINAL PAY ITEM SHOWS DOUBLE THE VALUE SHOWN IN SUMMARY TOTAL

FIELD COMPONENT TABLE								
SHEET NO.	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70' CCTV POLE 910-99.02 (EA)	70' CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910-99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
6	0	0	0	0	0	0	0	2
8	1	1	1	1	1	1	1	0
9	1	1	1	1	1	1	1	0
10	0	0	0	0	0	0	1	0
11	0	0	0	0	0	0	1	0
12	0	0	0	0	0	0	1	0
13	0	0	0	0	0	0	1	0
14	0	0	0	0	0	0	1	0
15	0	0	0	0	0	1	0	0
TOTAL	2	2	2	2	2	3	7	2

PIPE QUANTITY TABLE		
ITEM	UNIT	QTY
LINEAR GRADING CLASS 1	STA.	0.6
PAVED DITCH	S.Y.	8
15 IN. PIPE GROUP A (REINFORCED CONCRETE)	L.F.	32
15 IN. GROUP A FLARED END SECTIO	EACH	2
ROCK DITCH CHECK	L.F.	26
ALTERNATE DITCH CHECK	L.F.	53

PULLBOX AND POWER SUPPLY ASSEMBLY				
SHEET NO.	PULLBOX, PREFORMED CLASS 2 910-88.11	KC SCOUT FIBER OPTIC PULLBOX 910-99.02	MODIFICATION OF EXISTING POWER SUPPLY 910-99.01	POWER SUPPLY ASSEMBLY TYPE 2 240/120V 910-86.21
8	2	2		1
9	1	4	1	
TOTAL	3	6	1	1

MISC.			
Item No.	DESCRIPTION	UNIT	QUANTITY
618-10.00	MOBILIZATION	LS	1
910-99.01	FIBER OPTIC SPLICE, TEST, AND DOCUMENT	LS	1
201-30.00	CLEARING AND GRUBBING	ACRE	0.2
802-50.06	MULCHING	ACRE	0.3
805-10.00A	SEEDING - COOL SEASON GRASSES	ACRE	0.3

REMOVAL OF IMPROVEMENTS		
SHEET	LOCATION	DESCRIPTION
6	I-35	REMOVAL OF EXISTING DMS BOARDS AND ASSOCIATED EQUIPMENT
7	I-29 SB	SAW CUTTING OF EXISTING CONCRETE DITCH LINER, DISPOSAL
9	I-29 SB	REMOVAL OF EXISTING WIRELESS RADIO LINK - MO29SBWR-21
12	I-29 SB	REMOVAL OF EXISTING WIRELESS RADIO LINK - MO29SBWR-40
TOTAL	1	LUMP SUM

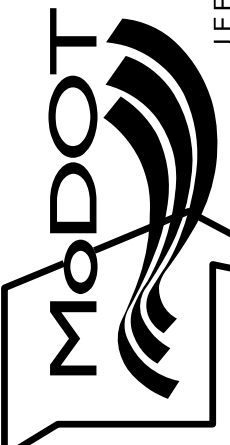


DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 2

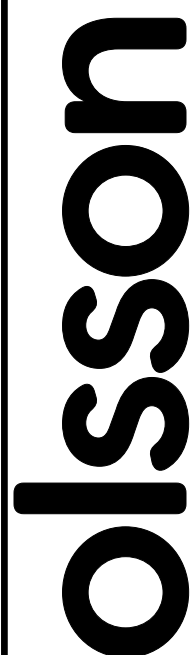
COUNTY PLATTE /CLAY
JOB NO. JKU0108
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



















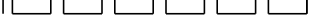


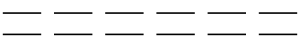

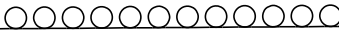
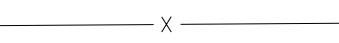
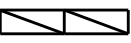


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CERTIFICATE OF AUTHORITY NO. 001592

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

LEGEND	
	CCTV CAMERA, PROPOSED
	VEHICLE RADAR DETECTION, PROPOSED
	WIRELESS COMMUNICATION DEVICE, PROPOSED
	EXISTING HAR BEACON ASSEMBLY
	BANDWIDTH MANAGER CABINET, EXISTING
	BASE MOUNTED CABINET, EXISTING
	POLE MOUNTED CABINET, EXISTING
	POLE MOUNTED CABINET, PROPOSED
	SPLICE VAULT WITH SPLICING, EXISTING
	SPLICE VAULT WITHOUT SPLICING, EXISTING
	SPLICE VAULT WITH SPLICING, PROPOSED
	SPLICE VAULT WITHOUT SPLICING, PROPOSED
	LIGHTCORE BOX, EXISTING
	PULL BOX, NEW CLASS 1, PROPOSED
	POWER SUPPLY ASSEMBLY, PROPOSED
	STEP UP/STEP DOWN TRANSFORMER, PROPOSED
	POWER POLE, EXISTING
	TRAFFIC DIRECTION
	CONDUIT, PUSHED
	CONDUIT, TRENCHED
	CONDUIT, BRIDGE
	CONDUIT, EXISTING
	GUARD RAIL, PROPOSED
	GUARD RAIL, EXISTING
	FENCE, EXISTING
	DRIVE GATE, PROPOSED

- GENERAL NOTES:
1.

ALL UTILITY LOCATIONS WITHIN THE LIMITS OF THE PROJECT SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE PROJECT. UTILITIES THAT MAY BE AFFECTED ARE LISTED IN THE JOB SPECIAL PROVISIONS.
2.

ALL TREES, HEDGE ROWS, SHELTERBELTS, AND WOODY SHRUBS NOT SHOWN TO BE REMOVED AND LOCATED WITHIN THE RIGHT-OF-WAY SHALL BE SPARED UNLESS OTHERWISE DIRECTED BY THE ENGINEER TO BE REMOVED.
3.

IN THE PROXIMITY OF CONSTRUCTION, EXISTING LIGHTCORE FIBER OPTIC CABLE MAY BE LOCATED CONTINUOUSLY ALONG ROUTES OF THIS PROJECT. THE LOCATION OF LIGHTCORE FIBER OPTIC CABLE AS SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE LIGHTCORE FIBER OPTIC CABLE PRIOR TO CONSTRUCTION IN THAT AREA. WHEN CROSSING EXISTING LIGHTCORE FACILITIES USE HAND EXCAVATION METHODS ONLY TO TRENCH CONDUIT. ALL CONDUIT CROSSINGS OF LIGHTCORE FACILITIES SHALL BE AT RIGHT ANGLES.
4.

THE APPROXIMATE LOCATION OF PROPERTY LINES 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.
5.


ALL ITS ELEMENTS (CCTV,RADAR AND WIRELESS) SHALL BE WIRED ACCORDING TO THE MANUFACTURER’S WIRING DIAGRAMS.
6.

PROPOSED IMPROVEMENTS AND EQUIPMENT LOCATIONS ARE APPROXIMATE; LOCATIONS MAY BE MODIFIED TO AVOID UTILITIES AND OTHER OBSTRUCTIONS IF APPROVED BY THE ENGINEER IN ADVANCE.
7.

IN ADDITION TO CONDUCTORS SHOWN ELSEWHERE, CONTRACTOR SHALL FURNISH & INSTALL A GROUND CONDUCTOR FROM EACH ELECTRIC SERVICE POINT TO ALL DEVICES POWERED BY THAT SERVICE POINT. THIS CONDUCTOR SHALL BE NO SMALLER THAN AWG #6.
8.

MEASUREMENT TO EDGE OF PAVEMENT (EOP) IS TO NEAREST PAINTED LANE LINE.

ABBREVIATIONS	
6MMFO	6 MULTI MODE FIBER OPTIC CABLE
12SMFO	12 SINGLE MODE FIBER OPTIC CABLE
48SMFO	48 SINGLE MODE FIBER OPTIC CABLE
AVE	AVENUE
BLD	BUILD
BLVD	BOULEVARD
CAT6E	CATEGORY 6 ENHANCED COMMUNICATIONS CABLE
CCTV	CLOSED CIRCUIT TELEVISION
DR	DRIVE
EA	EACH
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SHOLDER
FT	FEET
HWY	HIGHWAY
LF	LINEAR FEET
LS	LUMP SUM
MP	MILEPOST
PB	PULL BOX
PKWY	PARKWAY
RD	ROAD



DATE PREPARED

03/03/2025

ROUTE

VAR.

DISTRICT

KC

STATE

MO

SHEET NO.

4

COUNTY

PLATTE/CLAY

JOB NO.

JKU0108

CONTRACT ID.

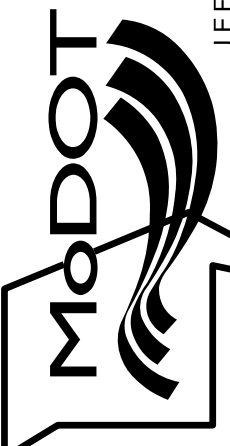
PROJECT NO.

BRIDGE NO.

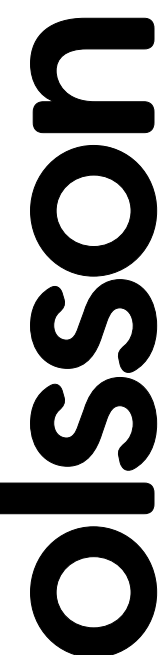
DESCRIPTION

DATE

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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AUTHORITY NO. 001592

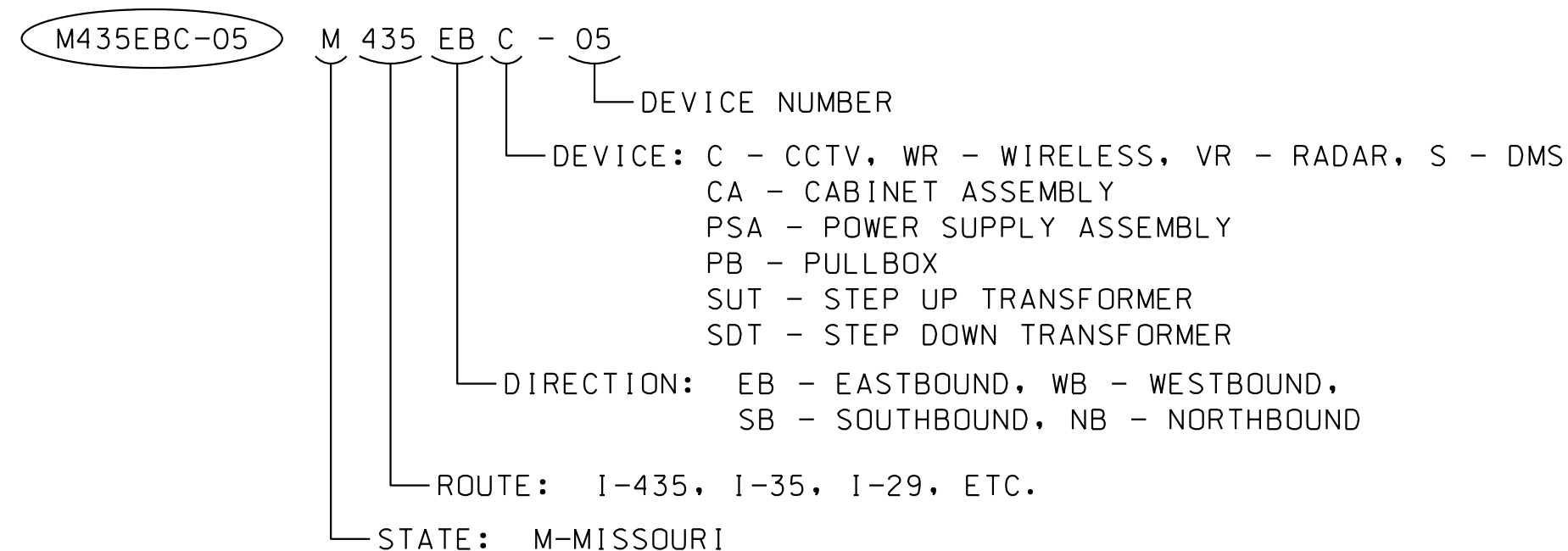
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CONDUIT AND CABLE ROUTING TABLE

[illegible]

* TOTAL LENGTH OF CABLE FROM ORIGINATION TO TERMINATION,
ALL LENGTHS IN TABLE ARE MEASURED IN FEET.

DEVICE ID CODE LEGEND



ADDITIONAL CABLE QUANTITIES
INCLUDED IN TABLE

POWER CABLE (PER CONDUCTOR)
6 FT AT EACH PULL BOX
10 FT AT EACH CABINET ASSEMBLY
20 FT AT EACH DMS
25 FT AT EACH TYPE POWER SUPPLY ASSEMBLY

FIBER OPTIC CABLE (6 STR OR 12 STR)
50 FT AT EACH PULL BOX
50 FT AT EACH HANDHOLE WHEN SPLICING
50 FT AT EACH CONTROLLER ASSEMBLY

FIBER OPTIC CABLE (48 STR)
100 FT AT EACH PULL BOX
100 FT AT EACH HANDHOLE WHEN SPLICING

NOTE:

THE CONTRACTOR SHALL AFTER PULLING CUT OFF AND DISCARD THE FIRST 10 FEET OF THE FIBER OPTIC CABLE. THIS 10 FEET HAS NOT BEEN INCLUDED IN THE TABLES. THE CONTRACTOR SHALL ACCOUNT FOR THIS LENGTH.

ADDITIONAL CONDUIT QUANTITIES
INCLUDED IN TABLE

2 FT AT EACH POWER SUPPLY ASSEMBLY
2 FT AT EACH CONTROLLER ASSEMBLY
4 FT AT EACH CCTV/DMS
SUBTRACT 1 FOOT AT EACH PULL BOX/SPLICE VAULT



DATE PREPARED
03/03/2025

ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 5

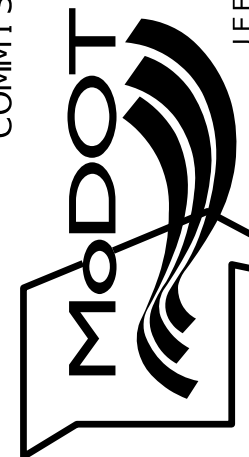
COUNTY
PLATTE / CLAY

JOB NO.
JKU0108

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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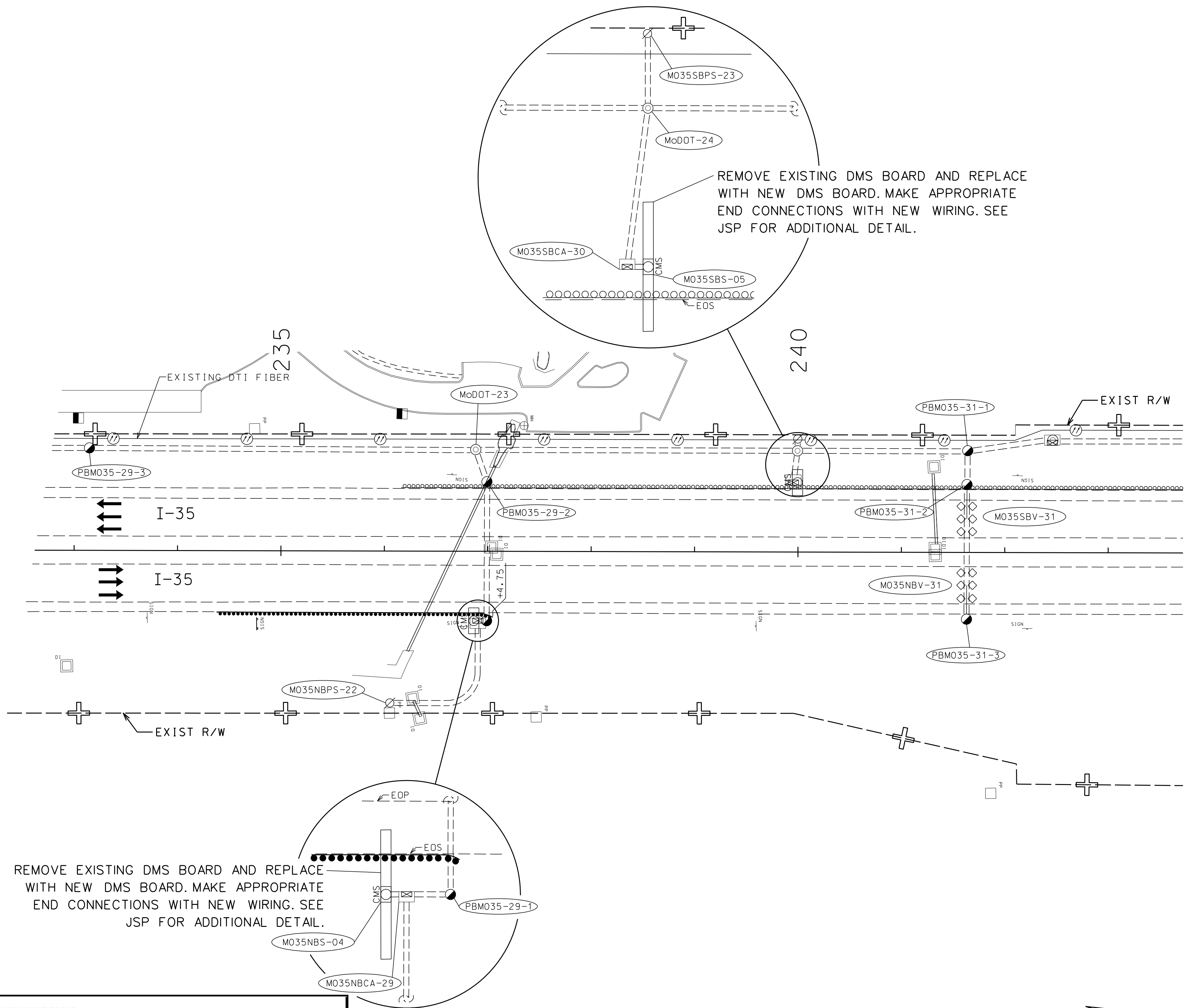
CONDUIT / CABLE ROUTING TABLE

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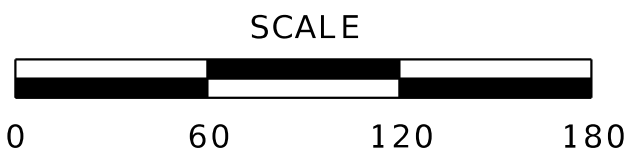
LOCATION 1:
(COLOR DMS BOARD/REPLACEMENTS)
*SOUTHBOUND DMS: M035SBS-05
*NORTHBOUND DMS: M035NBS-04



REMOVE EXISTING DMS BOARD AND REPLACE WITH NEW DMS BOARD. MAKE APPROPRIATE END CONNECTIONS WITH NEW WIRING. SEE JSP FOR ADDITIONAL DETAIL.

REMOVE EXISTING DMS BOARD AND REPLACE WITH NEW DMS BOARD. MAKE APPROPRIATE END CONNECTIONS WITH NEW WIRING. SEE JSP FOR ADDITIONAL DETAIL.

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70" CCTV POLE 910-99.02 (EA)	70' CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910- 99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910- 92.30 (EA)
M035SBS-05								1
M035NBS-04								1
TOTAL	0	0	0	0	0	0	0	2



ITS PLAN SHEET
SHEET 1 OF 10



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 6
COUNTY PLATTE / CLAY	
JOB NO. JKU0108	
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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NORTH KANSAS CITY, MO 64116
AUTHORITY NO. 001592

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

LOCATION 3:

- NEW CCTV CAMERA
- NEW WALK GATE
- BUILD NEW CONCRETE MAINTENANCE PAD

NOTES:

1. UTILIZE EXISTING EVERGY POWER POLE 266293 FOR POWER TO KC SCOUT EQUIPMENT.

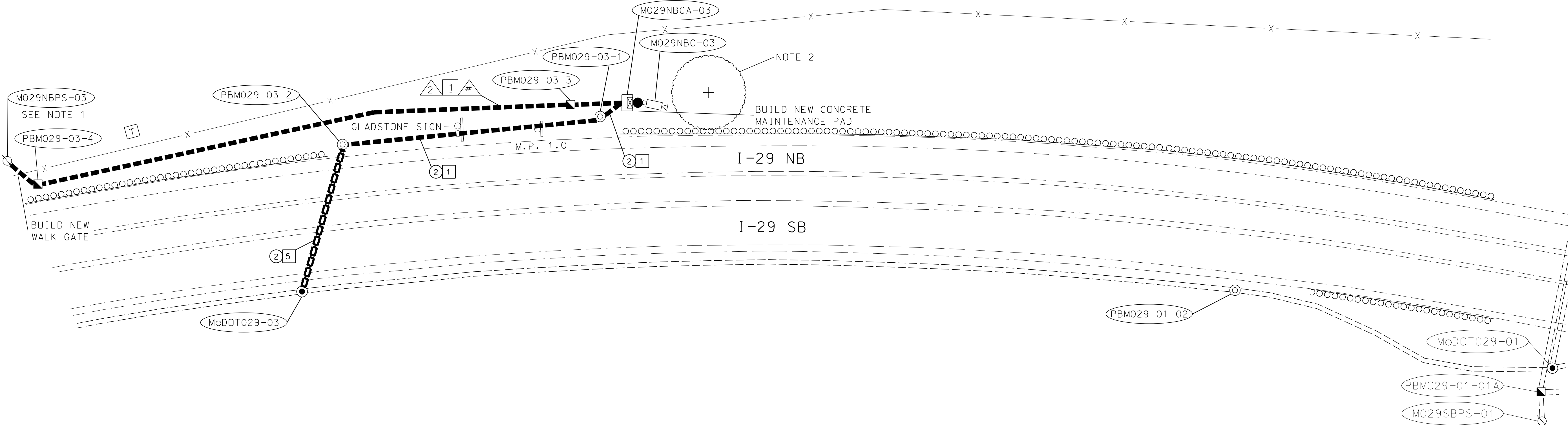
2. CONTRACTOR TO REMOVE EXISTING TREES THAT HAVE BEEN MARKED FOR REMOVAL.

3. CONTRACTOR WILL INTERCEPT EXISTING BACKBONE FIBER CONDUIT AND INSTALL BOX.

4. CUT EXISTING BACKBONE FIBER AT PBM029-01-02 AND PULL FIBER BACK TO THE NORTH AND SOUTH. INSTALL 2,500' OF NEW 48CT SINGLE MODE FIBER BETWEEN MoDOT029-03 AND MoDOT029-01.

5. ONCE CONTRACTOR HAS COMPLETED SPLICING, PB MoDOT029-03 SHALL HAVE 400' OF TOTAL SLACK (200' ON EACH SIDE OF THE SPLICE ENCLOSURE MINIMUM). PBM029-01-02 SHALL HAVE 50' OF TOTAL SLACK (MINIMUM). MoDOT029-01 (NORTH OF DAVIDSON RD) SHALL HAVE 200' OF SLACK IN THE NORTH DIRECTION FROM THE SPLICE ENCLOSURE.

6. SEE CONCRETE MAINTENANCE PAD DETAIL SHEETS FOR PROPOSED MAINTENANCE PAD LAYOUT.



FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70" CCTV POLE 910- 99.02 (EA)	70" CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910- 99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
MO29NBPS-03	1							
MO29NBCA-03		1	1	1	1			
MO29NBC-03						1		
WALK GATE								
CONCRETE MAINTENANCE PAD							1	
TOTAL	1	1	1	1	1	1	1	0

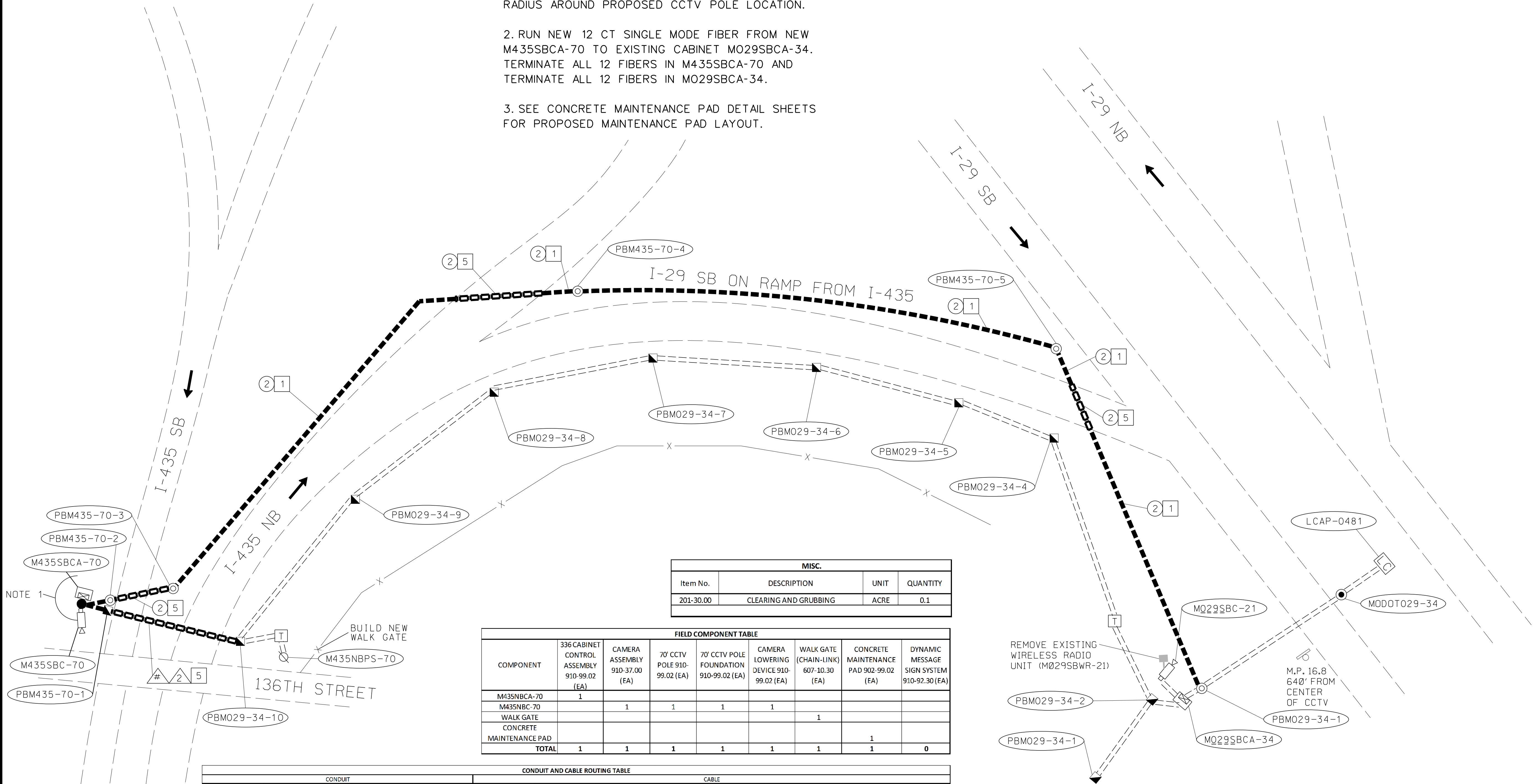
PULLBOX AND POWER SUPPLY ASSEMBLY				
COMPONENT	PULLBOX, PREFORMED CLASS 2	KC SCOUT FIBER OPTIC PULLBOX	MODIFICATION OF EXISTING POWER SUPPLY	POWER SUPPLY ASSEMBLY TYPE 2.240/120V
MO29NBPS-03		910-99.02	910-99.01	910-86.21
PBM029-03-4	1			
PBM029-03-3	1			
PBM029-03-2		1		
PBM029-03-1		1		
TOTAL	2	2	0	1

MISC.			
Item No.	DESCRIPTION	UNIT	QUANTITY
201-30.00	CLEARING AND GRUBBING	ACRE	0.1

CONDUIT AND CABLE ROUTING TABLE																						
CONDUIT								CABLE														
		CTR TO CTR DISTANCE	TRENCHED			PUSHED			FROM	TO	POWER				BARE GROUND	FIBER OPTIC CABLE			OTHER CABLES			
			1	1	1	5	5	5			1	2	3	4	2	#	1	2	3	1	2	3
FROM	TO		2"	2-2"		2"	2-2"			2-1/4"	2-1/4"	2-1/4"	2-1/4"	3-1/4"	1-1/4"	6 MMFO	12 SMFO	48 SMFO	DMS CABLE	CATEE CABLE	WIRELESS CABLE	RADAR CABLE
MO29NBPSA-03	MO29NBCA-03	713	717					MO29NBPSA-03	MO29NBCA-03		748				713							
MO29NBCA-03	MO29NBC-03							MO29NBCA-03	MO29NBC-03											77		
MO29NBCA-03	PBMO29-03-01	30	31					MO29NBCA-03	PBMO29-03-01								80					
PBMO29-03-01	PBMO29-03-02	265	253					PBMO29-03-01	PBMO29-03-02								315					
PBMO29-03-02	MoDOT029-03	130				128		PBMO29-03-02	MoDOT029-03								130					
MoDOT029-01	MoDOT029-03	2500						MoDOT029-01	MoDOT029-03									2500				
TOTAL:			1011	0	128	0				0	748	0	0	0	713	0	525	2500	0	77	0	0

LOCATION 4 & 7:
•BUILD NEW SCOUT CAMERA
AND WALK GATE

- NOTES:
- CONTRACTOR TO REMOVE EXISTING TREES THAT HAVE BEEN MARKED FOR REMOVAL. CLEAR 25' RADIUS AROUND PROPOSED CCTV POLE LOCATION.
 - RUN NEW 12 CT SINGLE MODE FIBER FROM NEW M435SBCA-70 TO EXISTING CABINET MQ29SBCA-34. TERMINATE ALL 12 FIBERS IN M435SBCA-70 AND TERMINATE ALL 12 FIBERS IN MQ29SBCA-34.
 - SEE CONCRETE MAINTENANCE PAD DETAIL SHEETS FOR PROPOSED MAINTENANCE PAD LAYOUT.

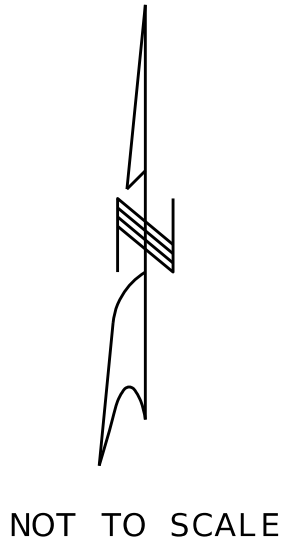


MISC.			
Item No.	DESCRIPTION	UNIT	QUANTITY
201-30.00	CLEARING AND GRUBBING	ACRE	0.1

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70' CCTV POLE 910-99.02 (EA)	70' CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910-99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
M435NBCA-70	1							
M435NBC-70		1	1	1	1			
WALK GATE						1		
CONCRETE MAINTENANCE PAD							1	
TOTAL	1	1	1	1	1	1	1	0

CONDUIT AND CABLE ROUTING TABLE																						
CONDUIT							CABLE															
			TRENCHED			PUSHED					POWER			BARE GROUND		FIBER OPTIC CABLE			OTHER CABLES			
			1	1	1	5	5	5			1	2	3	1	2	3	1	2	3	4		
FROM	TO	CTR TO CTR DISTANCE	2"	2-2"	2"	2-2"	FROM	TO	2-1/C48	2-1/C46	2-1/C44	2-1/C42	3-1/C48	1-1/C46	6 MMFO	12 SMFO	48 SMFO	DMS CABLE	CAT5E CABLE	WIRELESS CABLE	RADAR CABLE	
Transformer	PBM029-34-10	75	74				Transformer	PBM029-34-10				91										
PBM029-34-10	PBM435-70-1	176			177		PBM029-34-10	PBM435-70-1	192					176								
PBM435-70-1	PBM435NBCA-70	30	32				PBM435-70-1	PBM435NBCA-70	46					30								
PBM435NBCA-70	MO29NBC-70						PBM435NBCA-70	MO29NBC-70										77				
PBM435NBCA-70	PBM435-70-2	45	47		46		PBM435NBCA-70	PBM435-70-2								145						
PBM435-70-2	PBM435-70-3	125			124		PBM435-70-2	PBM435-70-3								175						
PBM435-70-3	PBM435-70-4	1365	1245		120		PBM435-70-3	PBM435-70-4								1415						
PBM435-70-4	PBM435-70-5	1545	1544				PBM435-70-4	PBM435-70-5								1595						
PBM435-70-5	PBM029-34-1	720	560		160		PBM435-70-5	PBM029-34-1								770						
PBM029-34-1	MO29SBCA-34	70					PBM029-34-1	MO29SBCA-34								70						
TOTAL:			3502	0	627	0			0	238	0	91	0	206	0	4170	0	0	77	0	0	

PULLBOX AND POWER SUPPLY ASSEMBLY			
COMPONENT	PULLBOX, PREFORMED CLASS 2	KC SCOUT FIBER OPTIC PULLBOX	MODIFICATION OF EXISTING POWER SUPPLY
PBM435-70-5	910-88.11	910-99.02	910-99.01
PBM435-70-4		1	910-86.21
PBM435-70-3		1	
PBM435-70-2		1	
PBM029-03-1	1		
M435NBPS-70			1
TOTAL	1	4	1



STATE OF MISSOURI

JOSHUA PUDLOWSKI

NUMBER PE-2021009515

PROFESSIONAL ENGINEER

DATE PREPARED 03/03/2025

ROUTE VAR. DISTRICT KC

STATE MO SHEET NO. 9

COUNTY PLATTE / CLAY

JOB NO. JKU0108

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)

olsson

1301 BURLINGTON STREET, STE. 100

NORTH KANSAS CITY, MO 64116

CERTIFICATE OF AUTHORITY NO. 001592

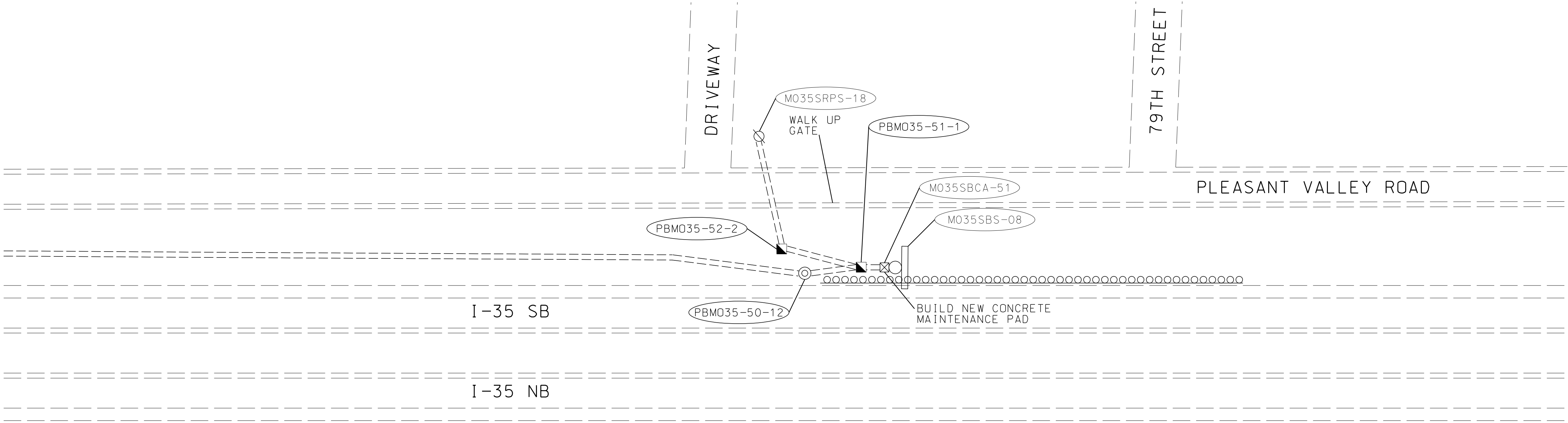
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

\$FILES\$ \$TIMES\$ \$DATES\$

LOCATION 6:
•BUILD NEW CONCRETE MAINTENANCE PAD

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70' CCTV POLE 910- 99.02 (EA)	70' CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910- 99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
CONCRETE MAINTENANCE PAD							1	
TOTAL	0	0	0	0	0	0	1	0

NOTES:
1. SEE CONCRETE MAINTENANCE PAD DETAIL SHEETS FOR
PROPOSED MAINTENANCE PAD LAYOUT.



NOT TO SCALE

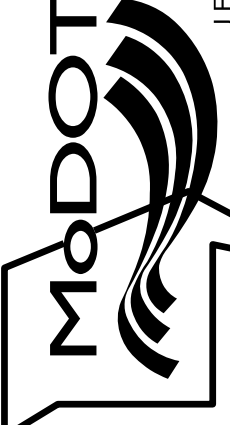
ITS PLAN SHEET
SHEET 5 OF 10



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 10
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
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)



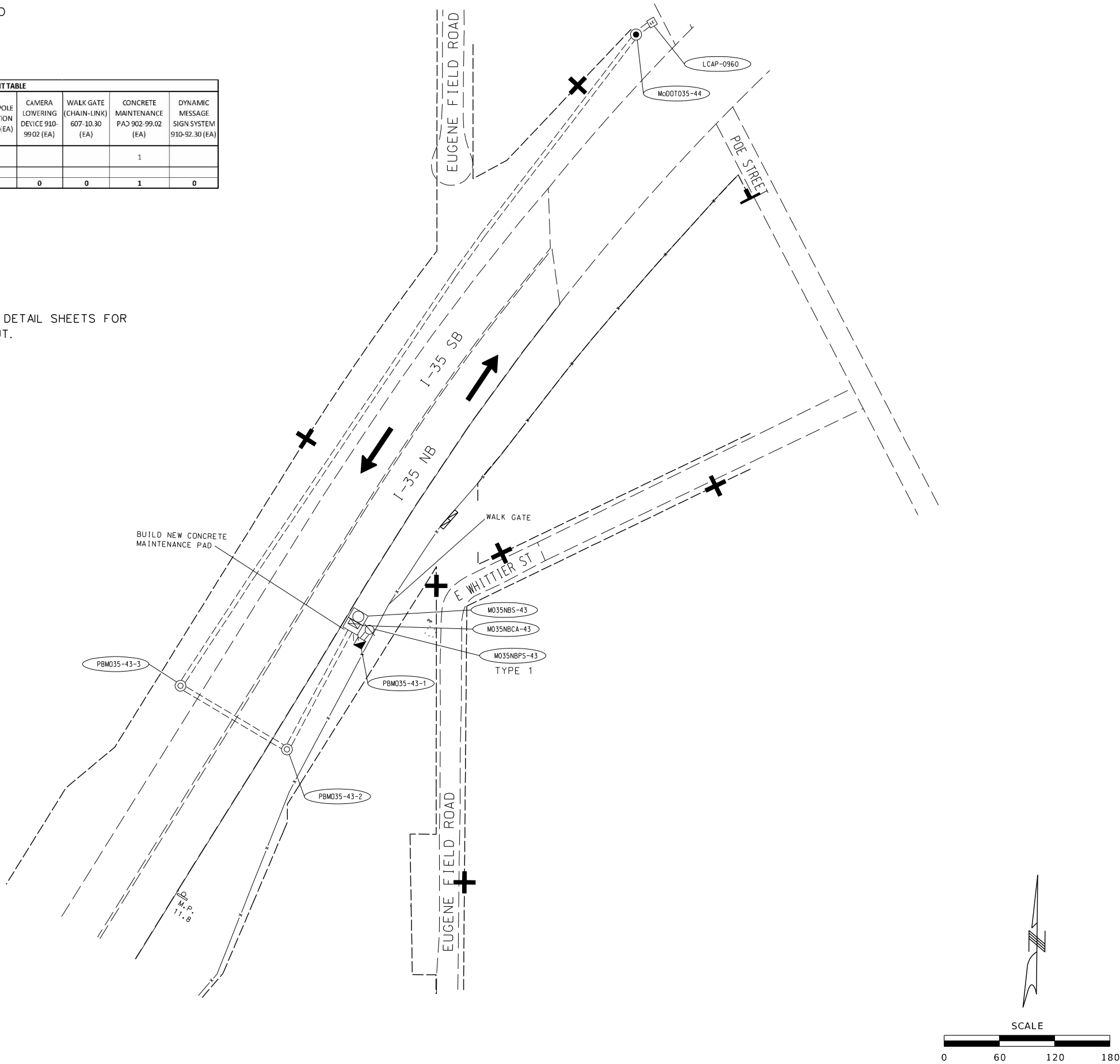
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

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

LOCATION 8:
•BUILD NEW CONCRETE MAINTENANCE PAD

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (FA)	CAMERA ASSEMBLY 910-37.00 (FA)	70" CCTV POLE 910- 99.02 (FA)	70" CCTV POLE FOUNDATION 910-99.02 (FA)	CAMERA LOWERING DEVICE 910- 99.02 (FA)	WALK GATE (CHAIN-LINK) 607-10.30 (FA)	CONCRETE MAINTENANCE PAD 902-99.02 (FA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (FA)
CONCRETE MAINTENANCE PAD							1	
TOTAL	0	0	0	0	0	0	1	0

NOTES:
1. SEE CONCRETE MAINTENANCE PAD DETAIL SHEETS FOR
PROPOSED MAINTENANCE PAD LAYOUT.



Date: 2025.05.12
14:34:19-05'00'

DATE PREPARED
03/03/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
KC	11

COUNTY
PLATTE / CLAY

JOB NO.
JKU0108

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

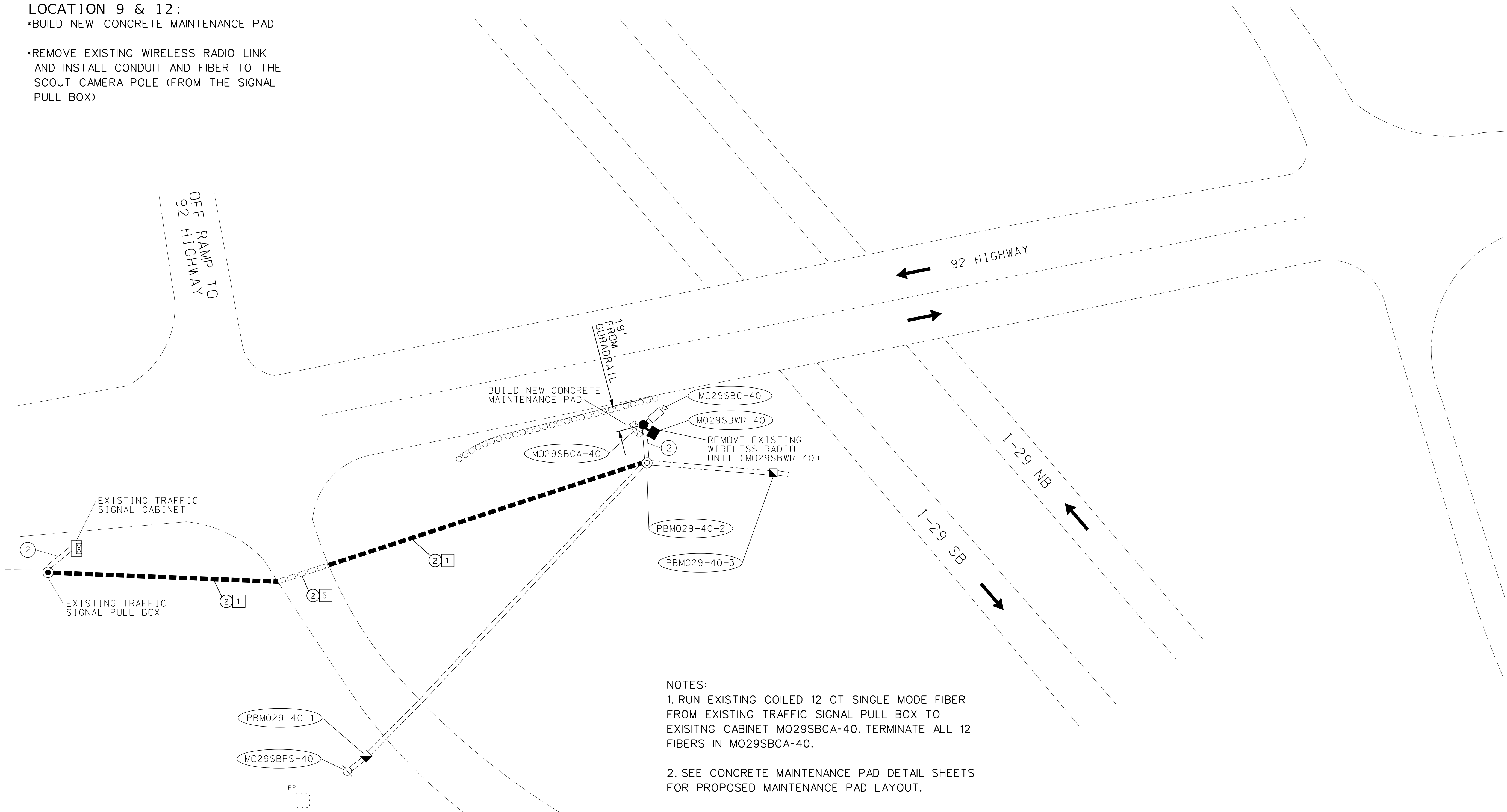
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

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

LOCATION 9 & 12:

- BUILD NEW CONCRETE MAINTENANCE PAD
- REMOVE EXISTING WIRELESS RADIO LINK AND INSTALL CONDUIT AND FIBER TO THE SCOUT CAMERA POLE (FROM THE SIGNAL PULL BOX)



- NOTES:
1. RUN EXISTING COILED 12 CT SINGLE MODE FIBER FROM EXISTING TRAFFIC SIGNAL PULL BOX TO EXISITNG CABINET MO29SBCA-40. TERMINATE ALL 12 FIBERS IN MO29SBCA-40.
 2. SEE CONCRETE MAINTENANCE PAD DETAIL SHEETS FOR PROPOSED MAINTENANCE PAD LAYOUT.

CONDUIT AND CABLE ROUTING TABLE																						
CONDUIT								CABLE														
			TRENCHED			PUSHED					POWER				BARE GROUND	FIBER OPTIC CABLE			OTHER CABLES			
			1	1	1	5	5	5			1	2	3	4		5	6	1	2	3	1	2
FROM	TO	CTR TO CTR DISTANCE	2"	2-2"		2"	2-2"	FROM	TO	2-1/2"/#8	2-1/2"/#6	2-1/2"/#4	2-1/2"/#2	3-1/2"/#8	1-1/2"/#6	6 MM/FO	12 MM/FO	48 MM/FO	DMG CABLE	CAT5E CABLE	WIRELESS CABLE	RADAR CABLE
MO29SBCA-40	PBMO29-40-2	22						MO29SBCA-40	PBMO29-40-2								122					
PBMO29-40-2	EXISTING PULLBOX	194	142			50		PBMO29-40-2	EXISTING PULLBOX								192					
EXISTING PULLBOX	EXISTING CABINET	22						EXISTING PULLBOX	EXISTING CABINET								72					
TOTAL:			142	0		50	0			0	0	0	0	0	0	0	386	0	0	0	0	0

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70' CCTV POLE 910-99.02 (EA)	70' CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910-99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
M435NBCA-70	1							
M435NBC-70		1	1	1	1			
WALK GATE						1		
CONCRETE MAINTENANCE PAD							1	
TOTAL	1	1	1	1	1	1	1	0



NOT TO SCALE

ITS PLAN SHEET
SHEET 7 OF 10

\$FILES\$ \$TIMES\$ \$DATES\$



DATE PREPARED

03/03/2025

ROUTE STATE

VAR. MO

DISTRICT SHEET NO.

KC 12

COUNTY

PLATTE/CLAY

JOB NO.

JKU0108

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

1301 BURLINGTON STREET, STE. 100 NORTH KANSAS CITY, MO 64116 AUTHORITY NO. 001592

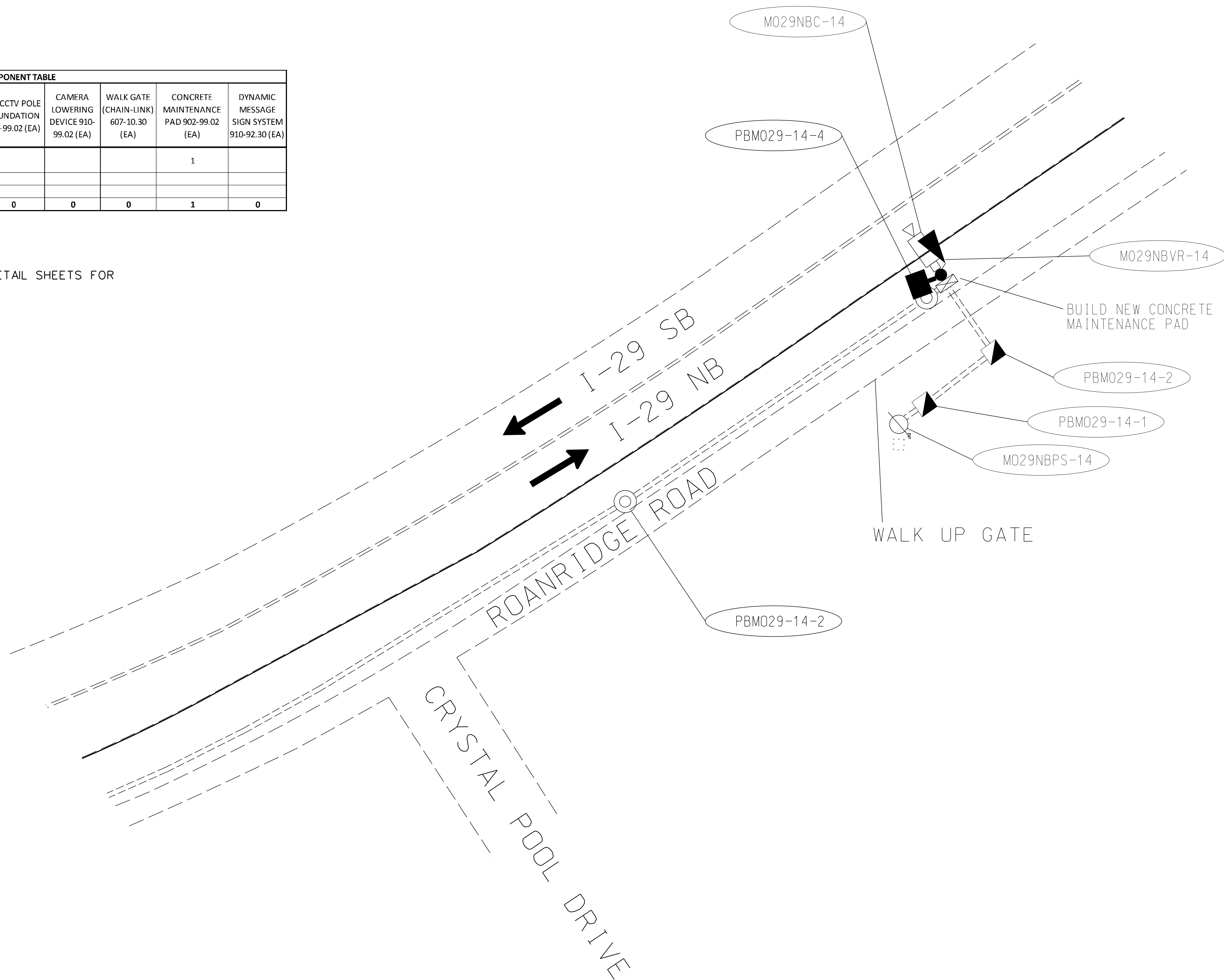
olsson

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

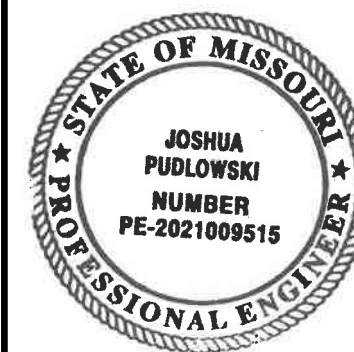
*BUILD NEW CONCRETE MAINTENANCE PAD

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70' CCTV POLE 910- 99.02 (EA)	70' CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910- 99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
CONCRETE MAINTENANCE PAD							1	
TOTAL	0	0	0	0	0	0	1	0

1. SEE CONCRETE MAINTENANCE PAD DETAIL SHEETS FOR PROPOSED MAINTENANCE PAD LAYOUT.



ITS PLAN SHEET
SHEET 8 OF 10



03/03/2025

VAR .	MO
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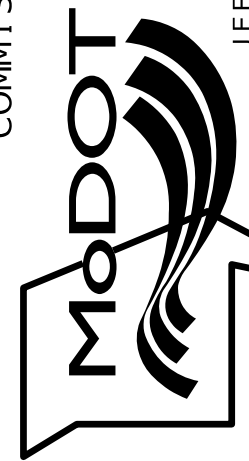
KC	13
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PLATTE / CLAY

JKU0108

10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

olson

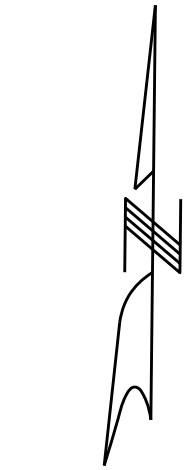
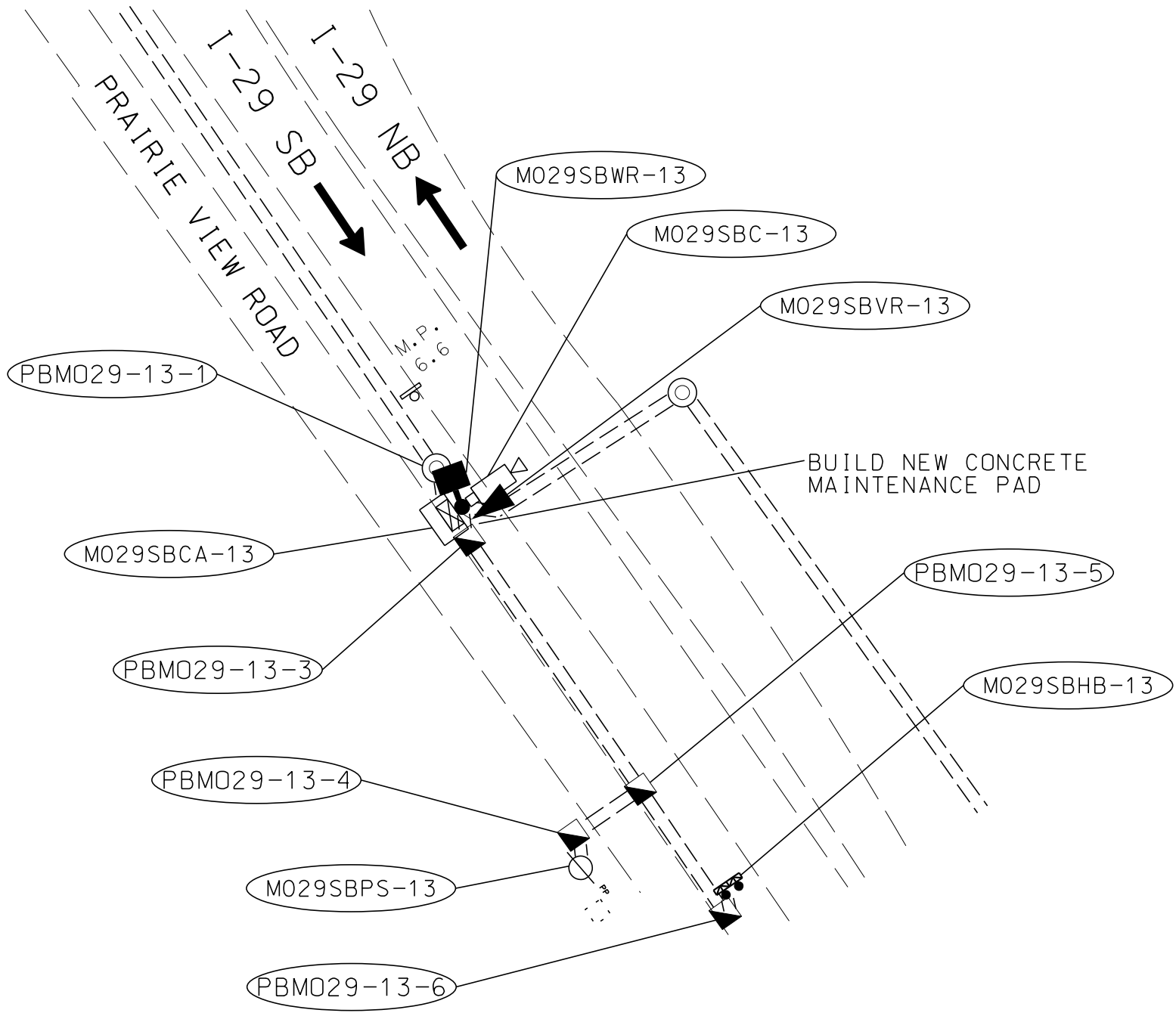
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

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

LOCATION 11:
*BUILD NEW CONCRETE MAINTENANCE PAD

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70' CCTV POLE 910- 99.02 (EA)	70' CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910- 99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
CONCRETE MAINTENANCE PAD							1	
TOTAL	0	0	0	0	0	0	1	0

NOTES:
1. SEE CONCRETE MAINTENANCE PAD DETAIL SHEETS FOR
PROPOSED MAINTENANCE PAD LAYOUT.



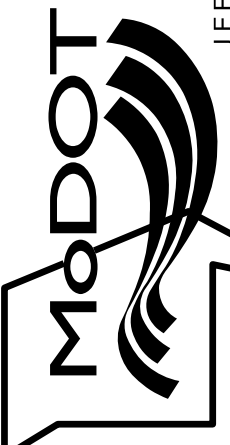
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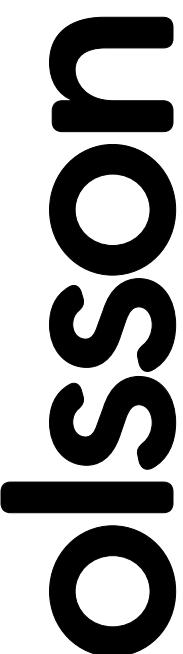
DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 14
COUNTY PLATTE / CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

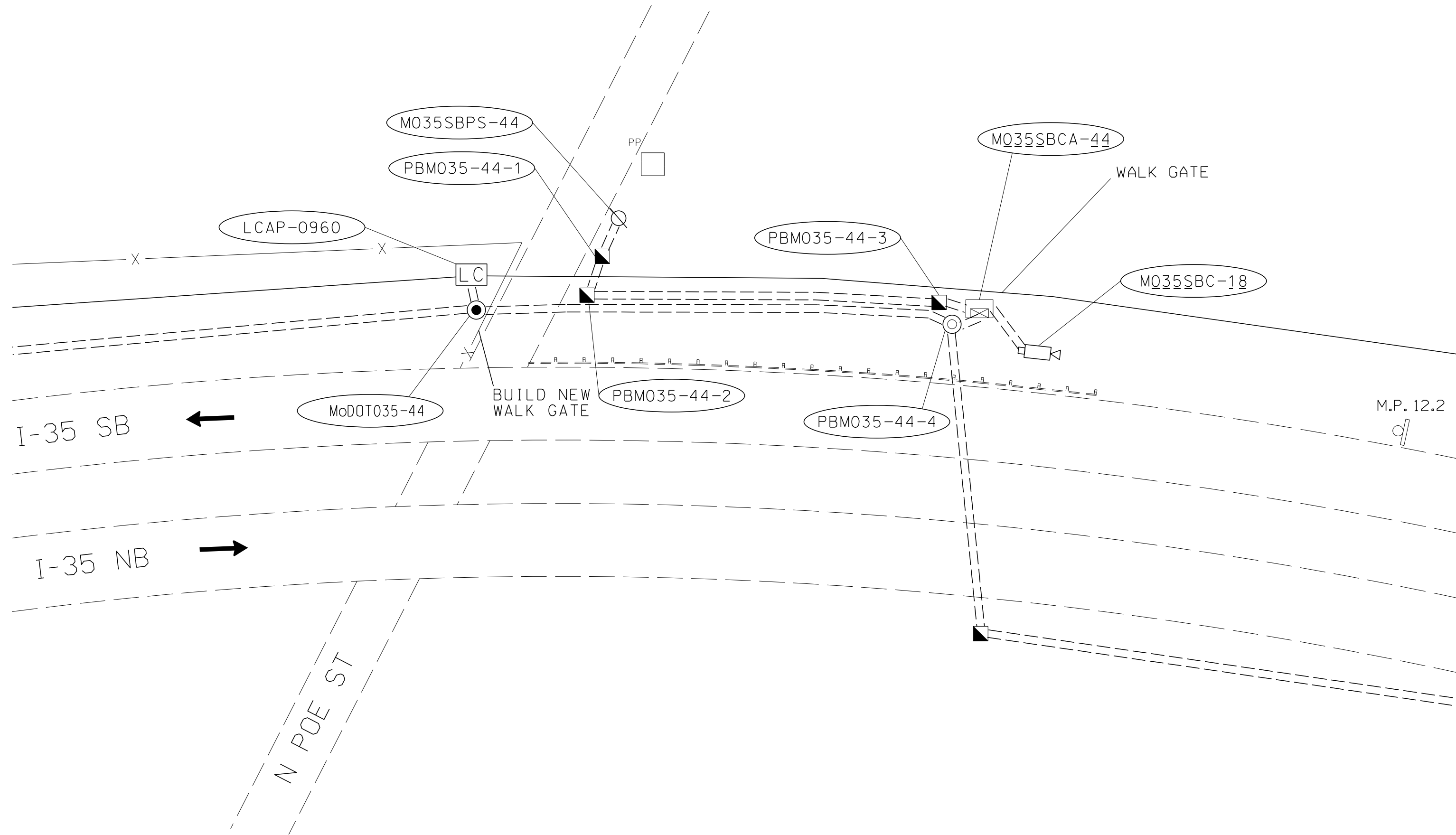


1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

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

LOCATION 13:
*BUILD NEW WALK GATE

FIELD COMPONENT TABLE								
COMPONENT	336 CABINET CONTROL ASSEMBLY 910-99.02 (EA)	CAMERA ASSEMBLY 910-37.00 (EA)	70" CCTV POLE 910-99.02 (EA)	70" CCTV POLE FOUNDATION 910-99.02 (EA)	CAMERA LOWERING DEVICE 910- 99.02 (EA)	WALK GATE (CHAIN-LINK) 607-10.30 (EA)	CONCRETE MAINTENANCE PAD 902-99.02 (EA)	DYNAMIC MESSAGE SIGN SYSTEM 910-92.30 (EA)
WALK GATE						1		
TOTAL	0	0	0	0	0	1	0	0



NOT TO SCALE



DATE PREPARED
03/03/2025

ROUTE	STATE
VAR .	MO

DISTRICT KC	SHEET NO. 15
----------------	-----------------


COUNTY
PLATTE / CLAY

JOB NO.
JKU0108

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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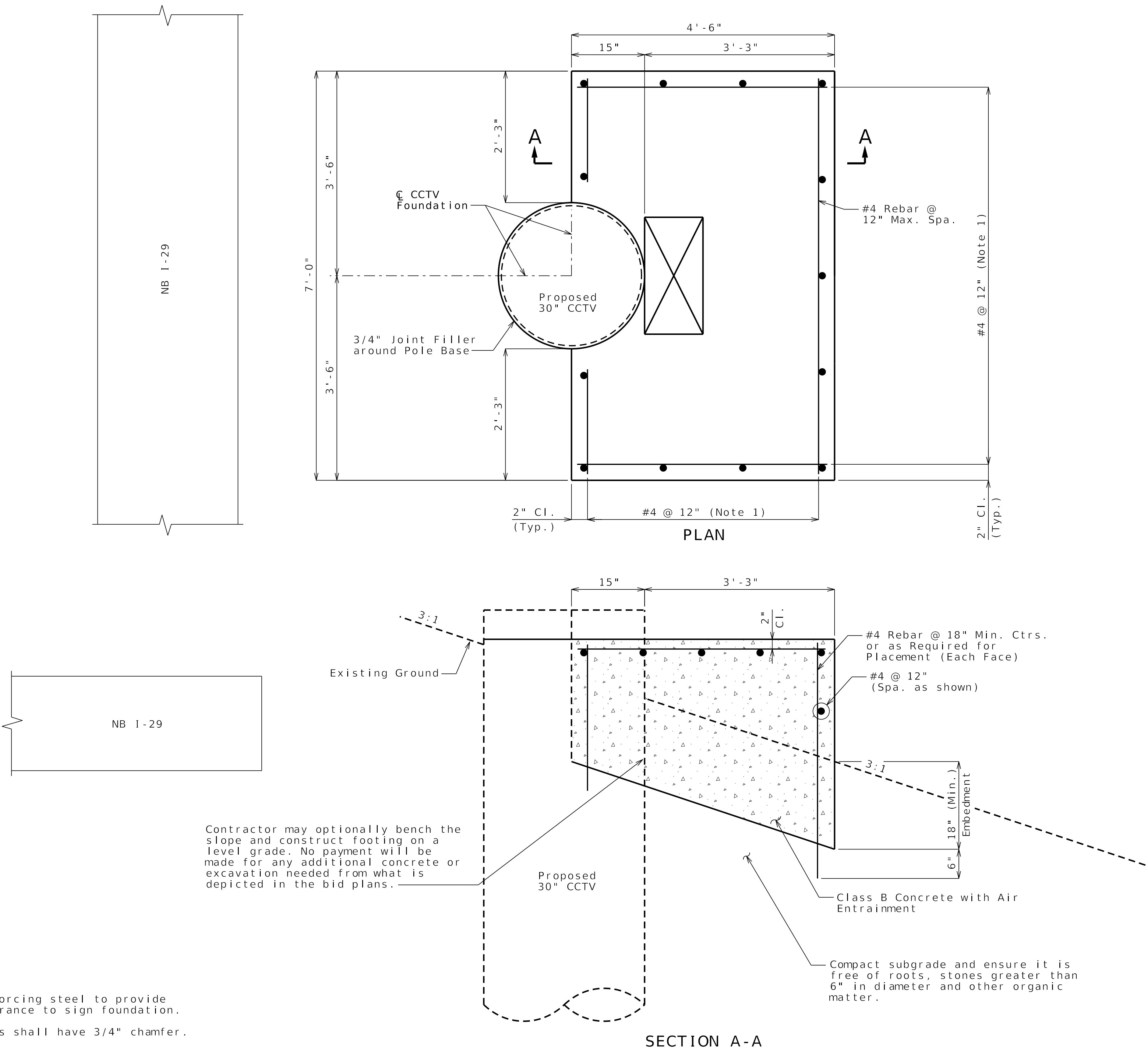
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

olsson
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

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

NB I-29
(East of N Oak Tfwy)
Location #3



DATE PREPARED	
03/03/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
KC	16
COUNTY	
PLATTE/CLAY	
JOB NO.	
JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

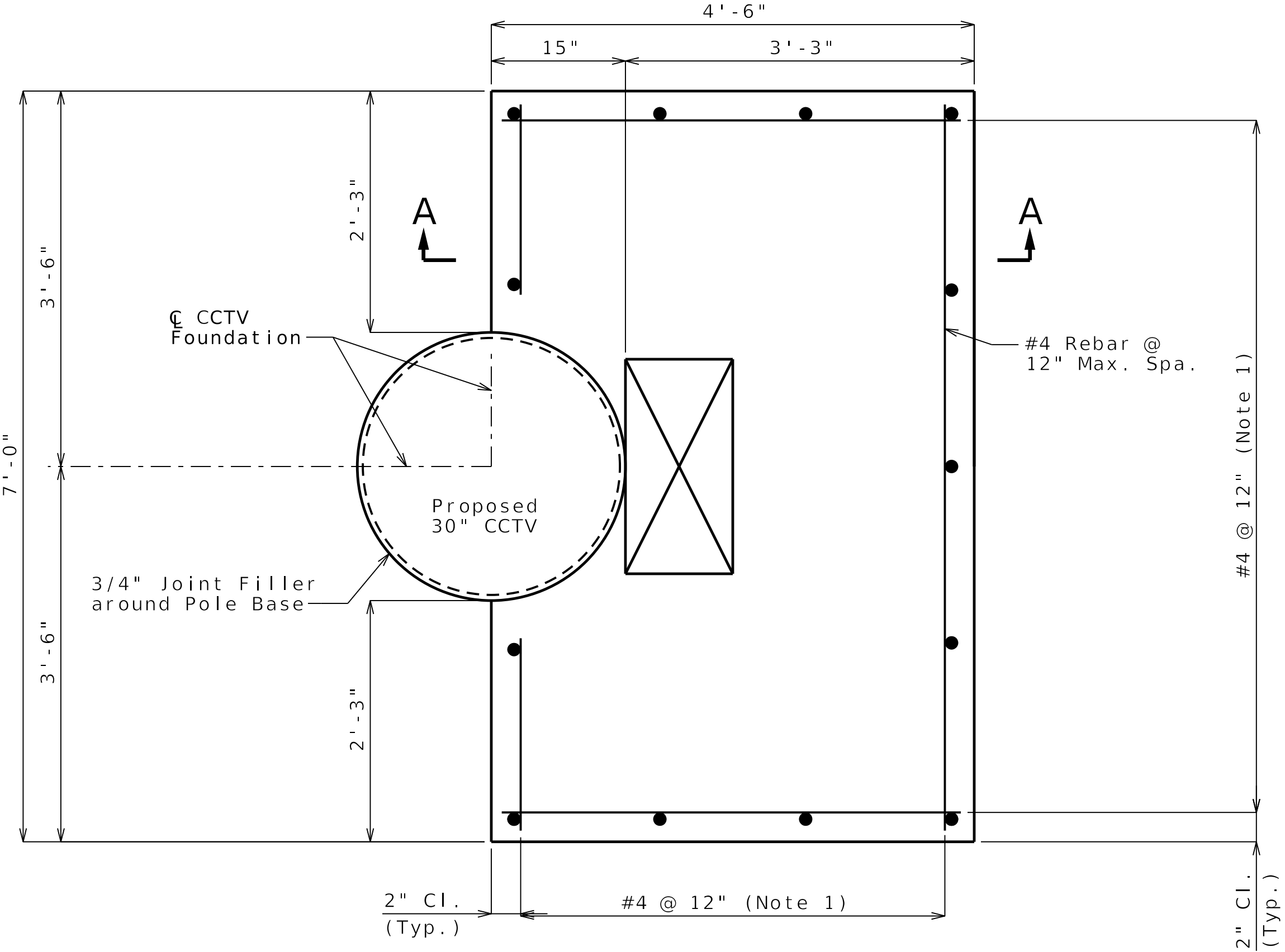
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

olsson

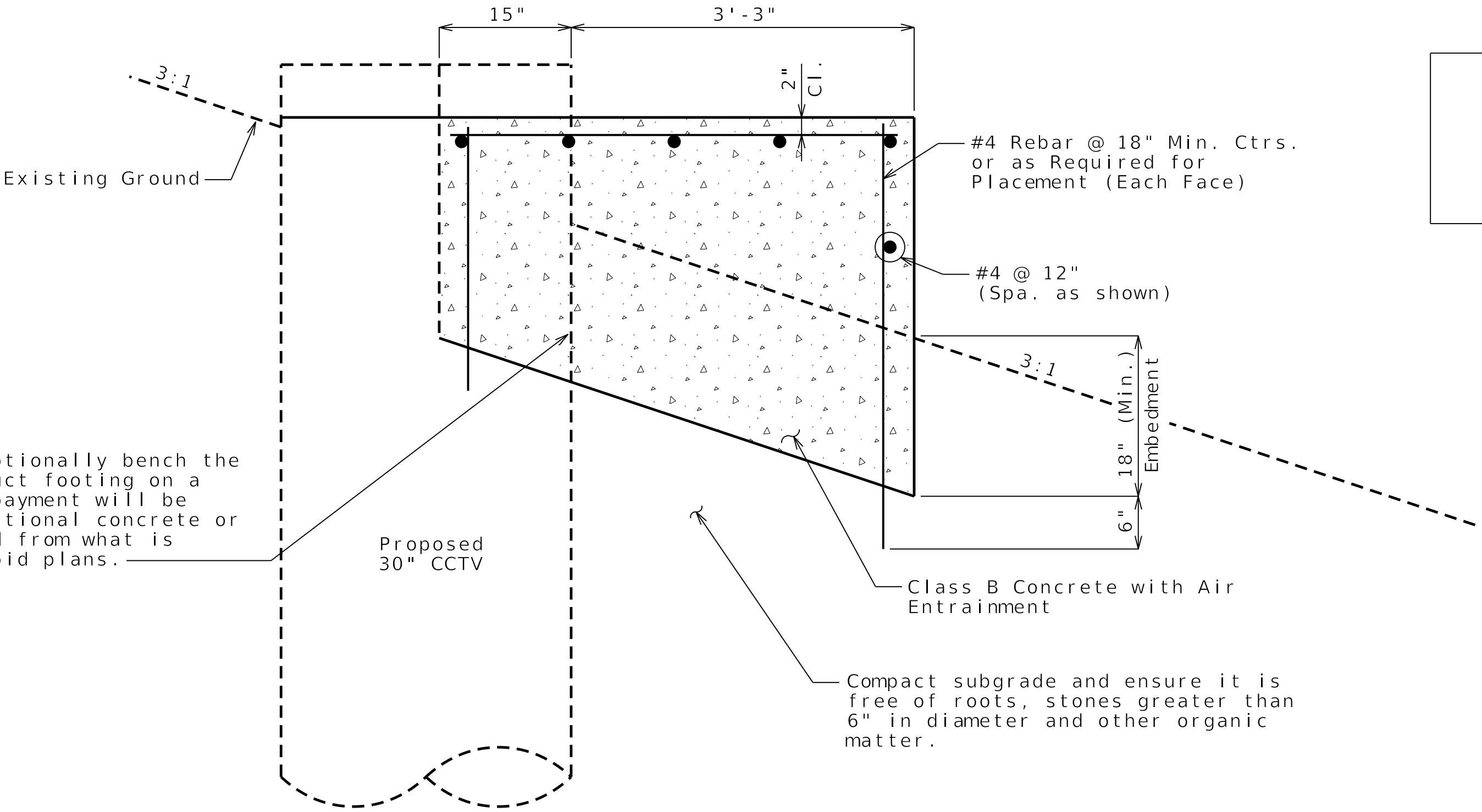
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF AUTHORITY NO. 001592

CONCRETE MAINTENANCE
PAD DETAILS
SHEET 1 OF 7

SB I-435
(1/4 Mile S of I-29)
Location #4 and #7



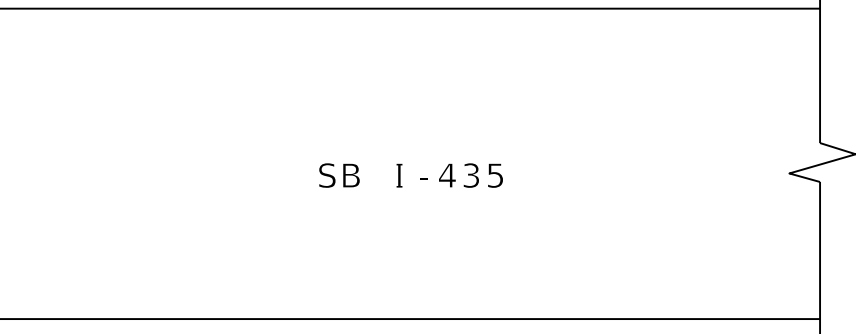
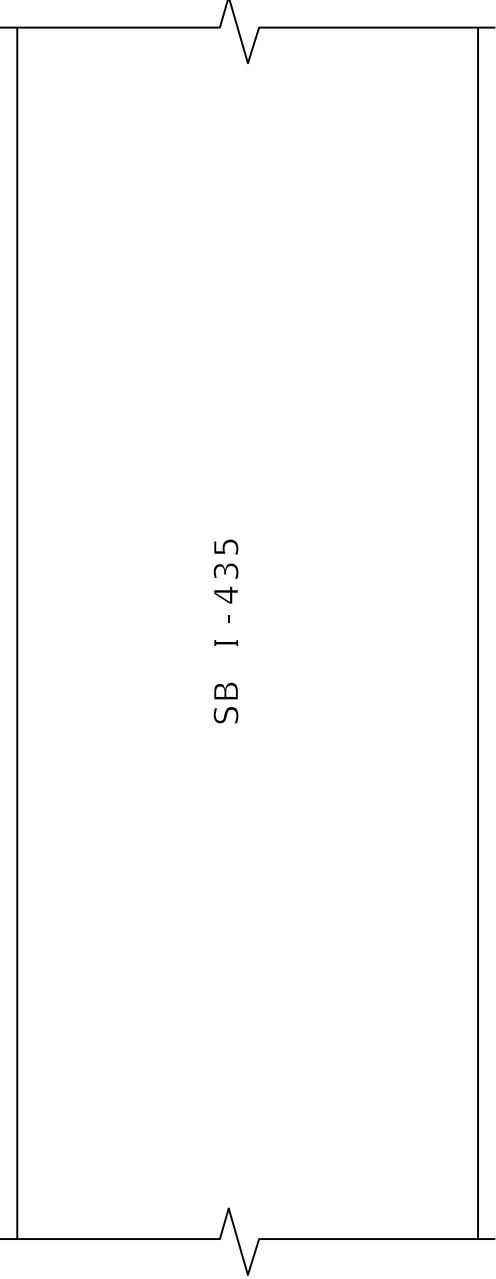
PLAN



SECTION A-A

Note 1: Field trim reinforcing steel to provide 1 1/2" min. clearance to sign foundation.

Note 2: All exposed edges shall have 3/4" chamfer.



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 17
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

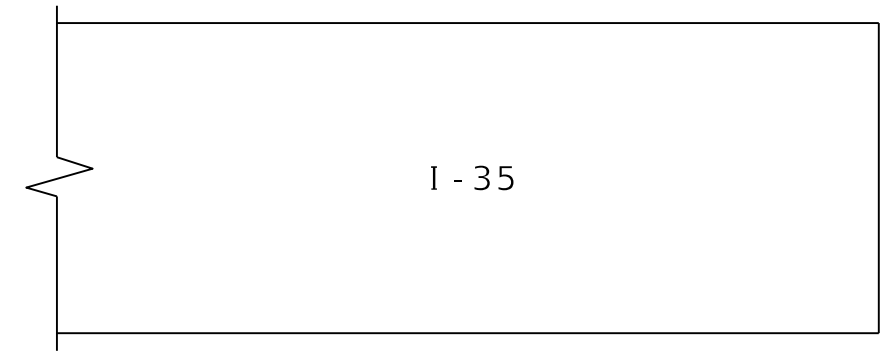
olsson

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF AUTHORITY NO. 001592

CONCRETE MAINTENANCE
PAD DETAILS
SHEET 2 OF 7

1.35

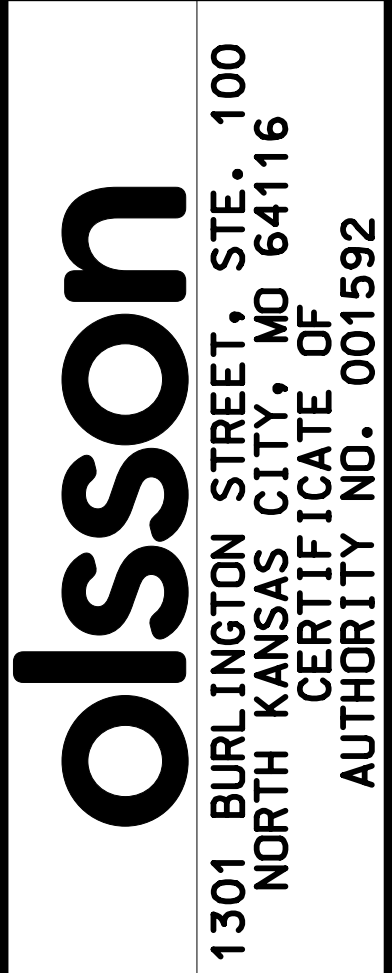
1.35



Contractor may optionally bench the slope and construct footing on a level grade. No payment will be made for any additional concrete or excavation needed from what is depicted in the bid plans. _____

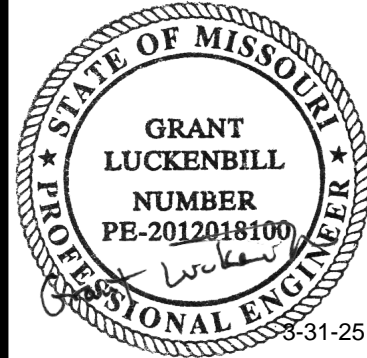
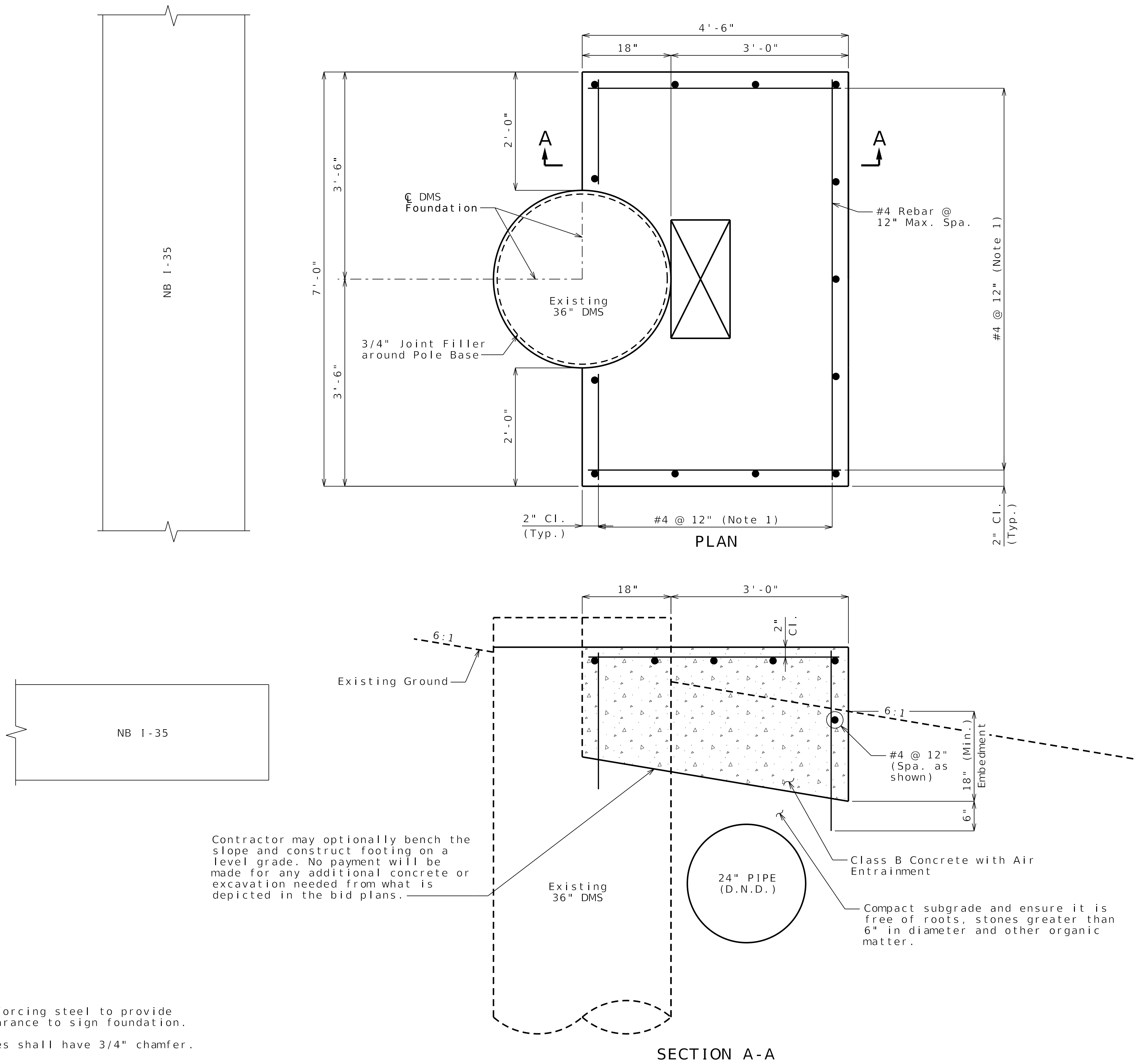


CONCRETE MAINTENANCE
PAD DETAILS
SHEET 3 OF 7



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

NB I-35 CA-43
(Before Poe St.)
Location #8



DATE PREPARED	
03/03/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
KC	19
COUNTY	
PLATTE/CLAY	
JOB NO.	
JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

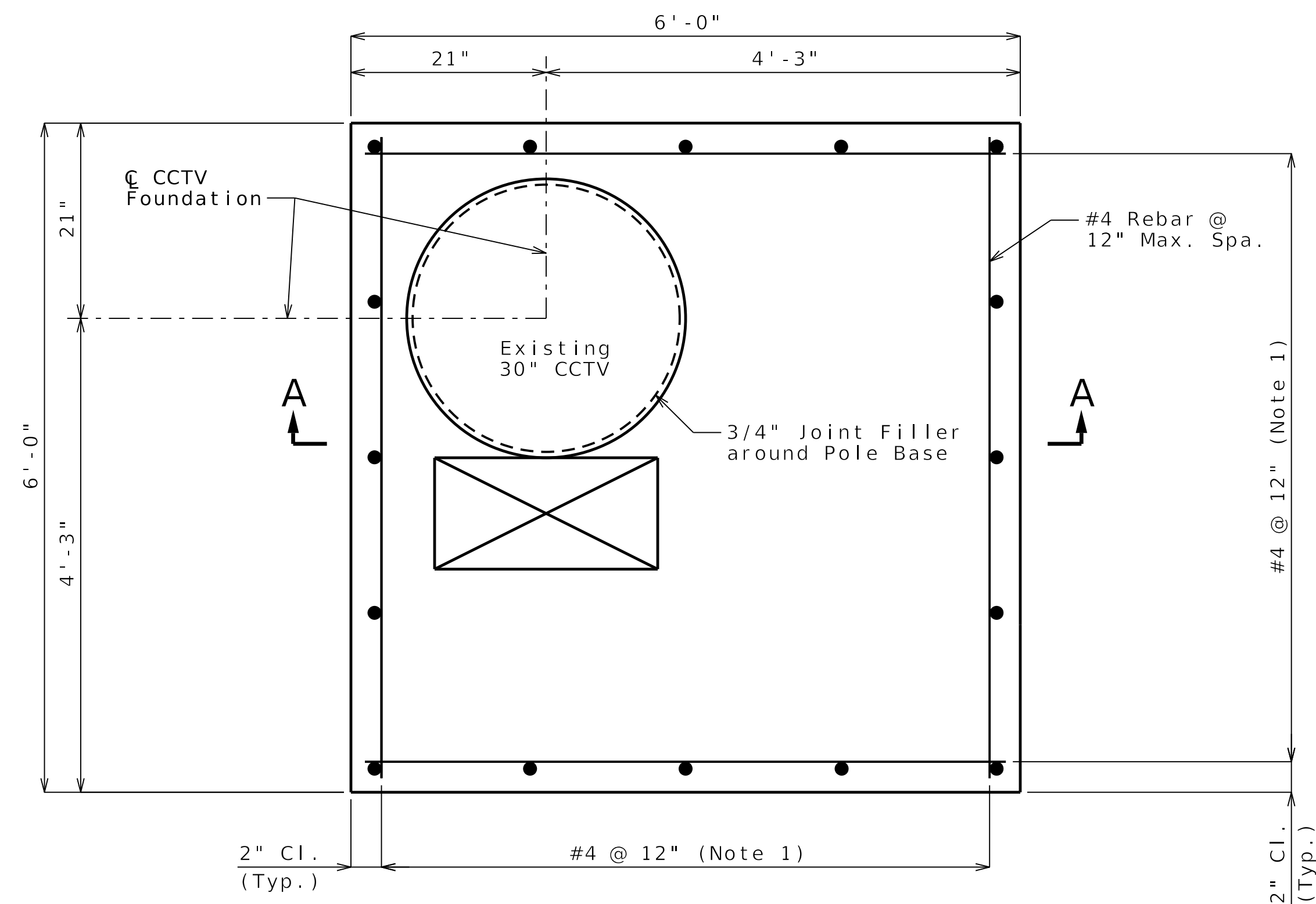
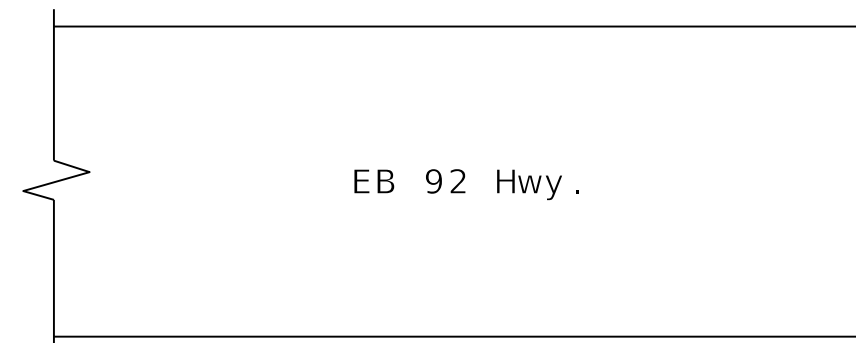
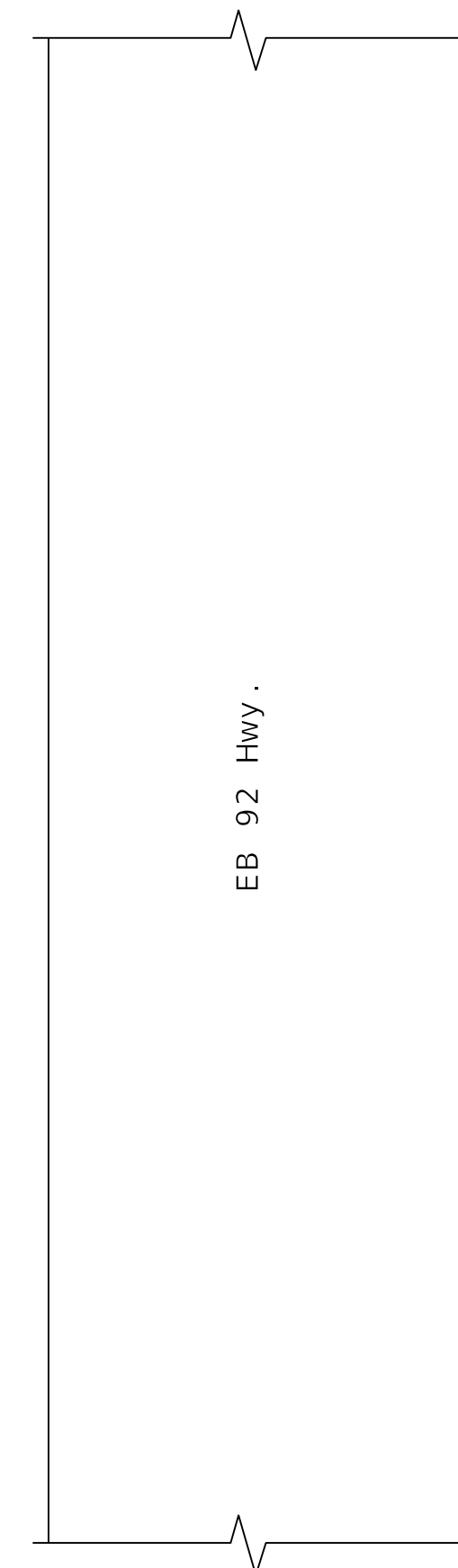
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

olsson

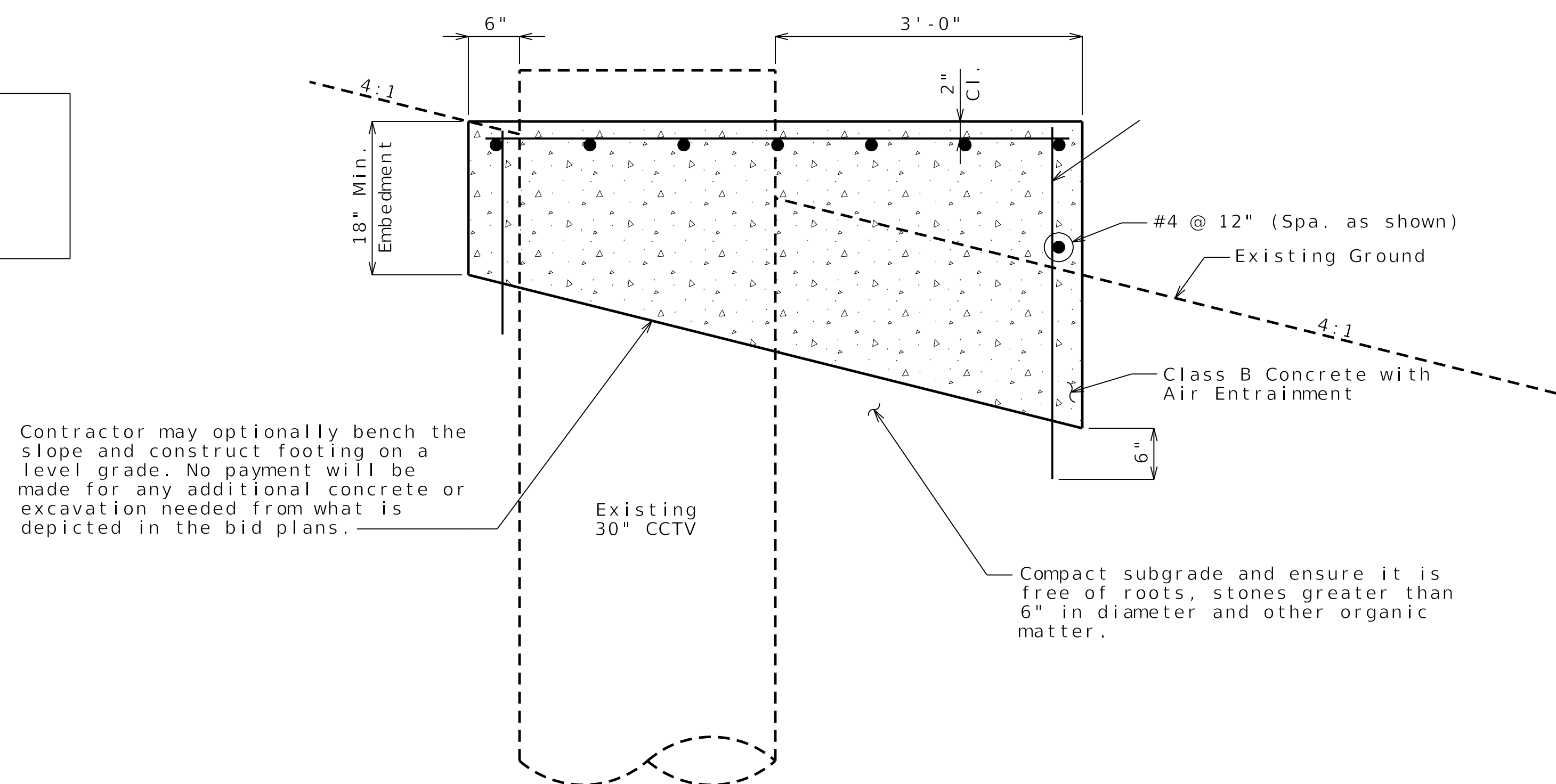
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF AUTHORITY NO. 001592

CONCRETE MAINTENANCE
PAD DETAILS
SHEET 4 OF 7

SB I-29 CA-40
(@ 92 Hwy.)
Location #9



PLAN



SECTION A-A

Note 1: Field trim reinforcing steel to provide 1 1/2" min. clearance to sign foundation.

Note 2: All exposed edges shall have 3/4" chamfer.

CONCRETE MAINTENANCE
PAD DETAILS
SHEET 5 OF 7



DATE PREPARED
03/03/2025

ROUTE	STATE
144	MO

VAR.	MO
1991-1992	1991-1992

DISTRICT	SHEET NO.
KC	20

KC	20
COUNTY	

PLATTE / CLAY

JOB NO.

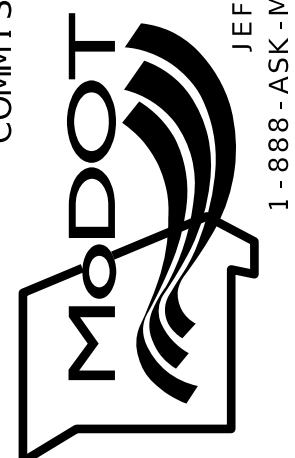
JKU0108

CONTRACT ID.

PROJECT NO.

PROJECT NO.

BRIDGE NO.

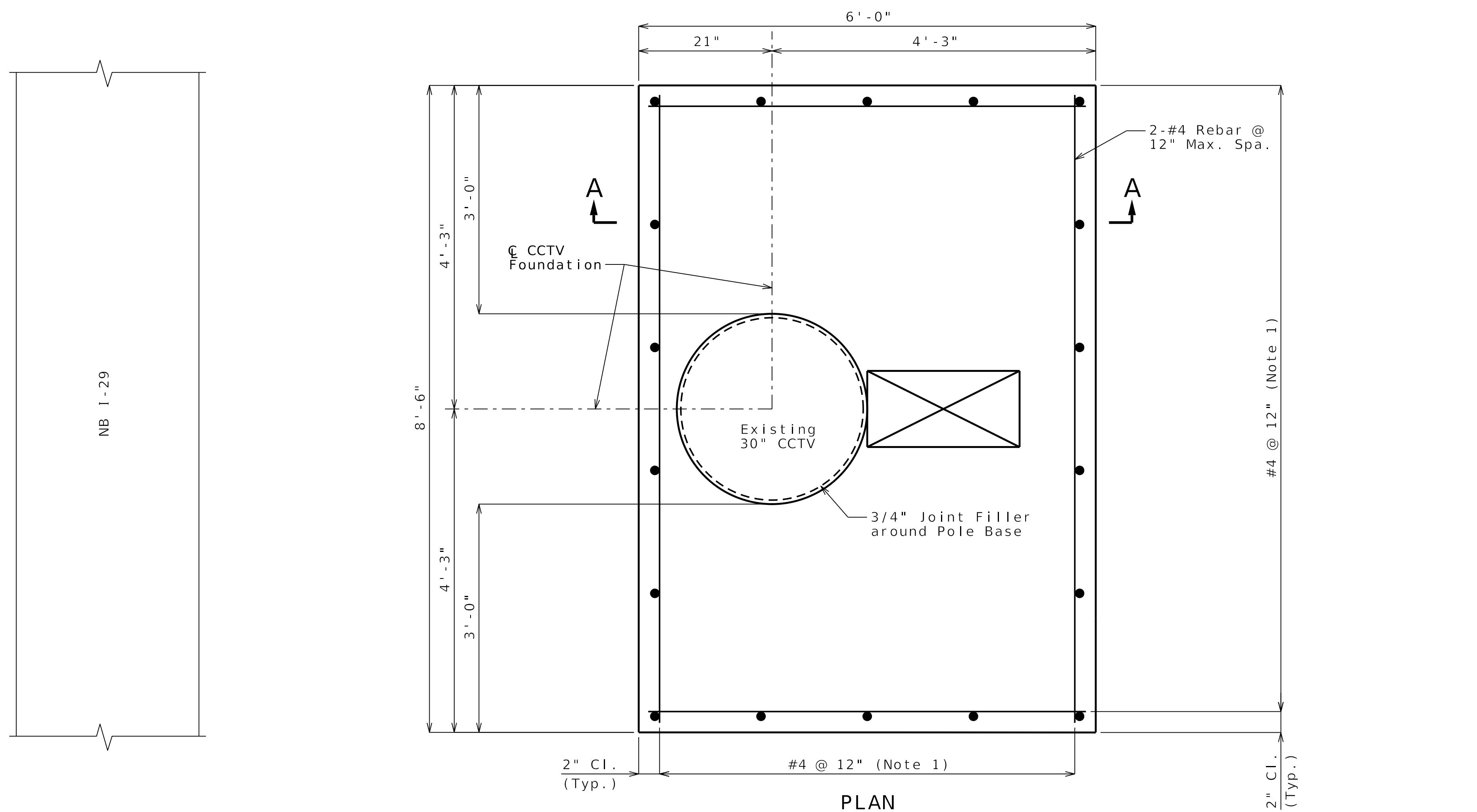
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COMMISSION

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

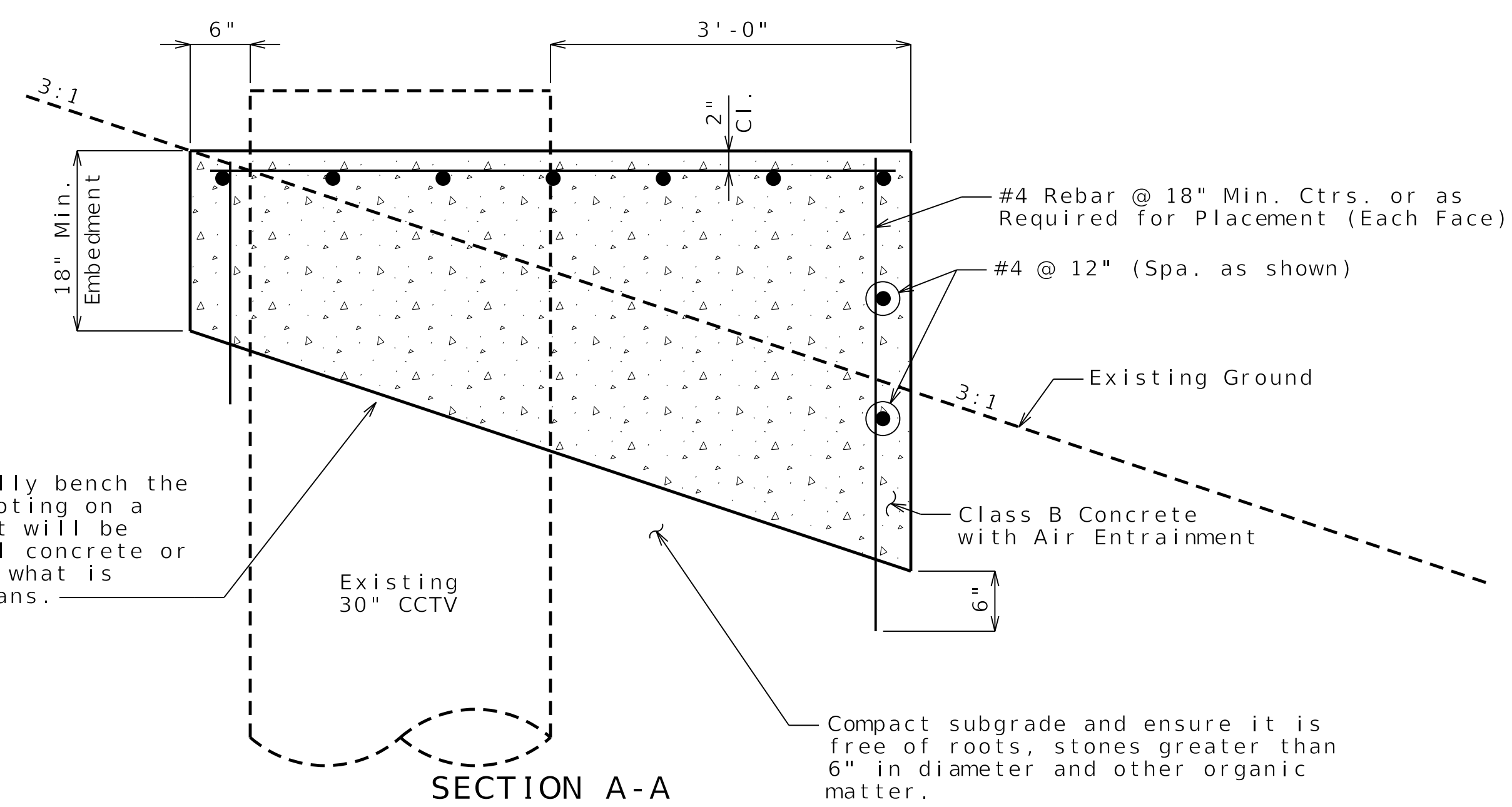
olsson
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

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

NB I-29 CA-14
(North of 72nd St.)
Location #10



PLAN

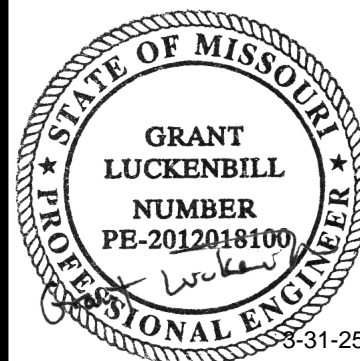


SECTION A-A

Contractor may optionally bench the slope and construct footing on a level grade. No payment will be made for any additional concrete or excavation needed from what is depicted in the bid plans.

Note 1: Field trim reinforcing steel to provide 1 1/2" min. clearance to sign foundation.
Note 2: All exposed edges shall have 3/4" chamfer.

CONCRETE MAINTENANCE
PAD DETAILS
SHEET 6 OF 7



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 21
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

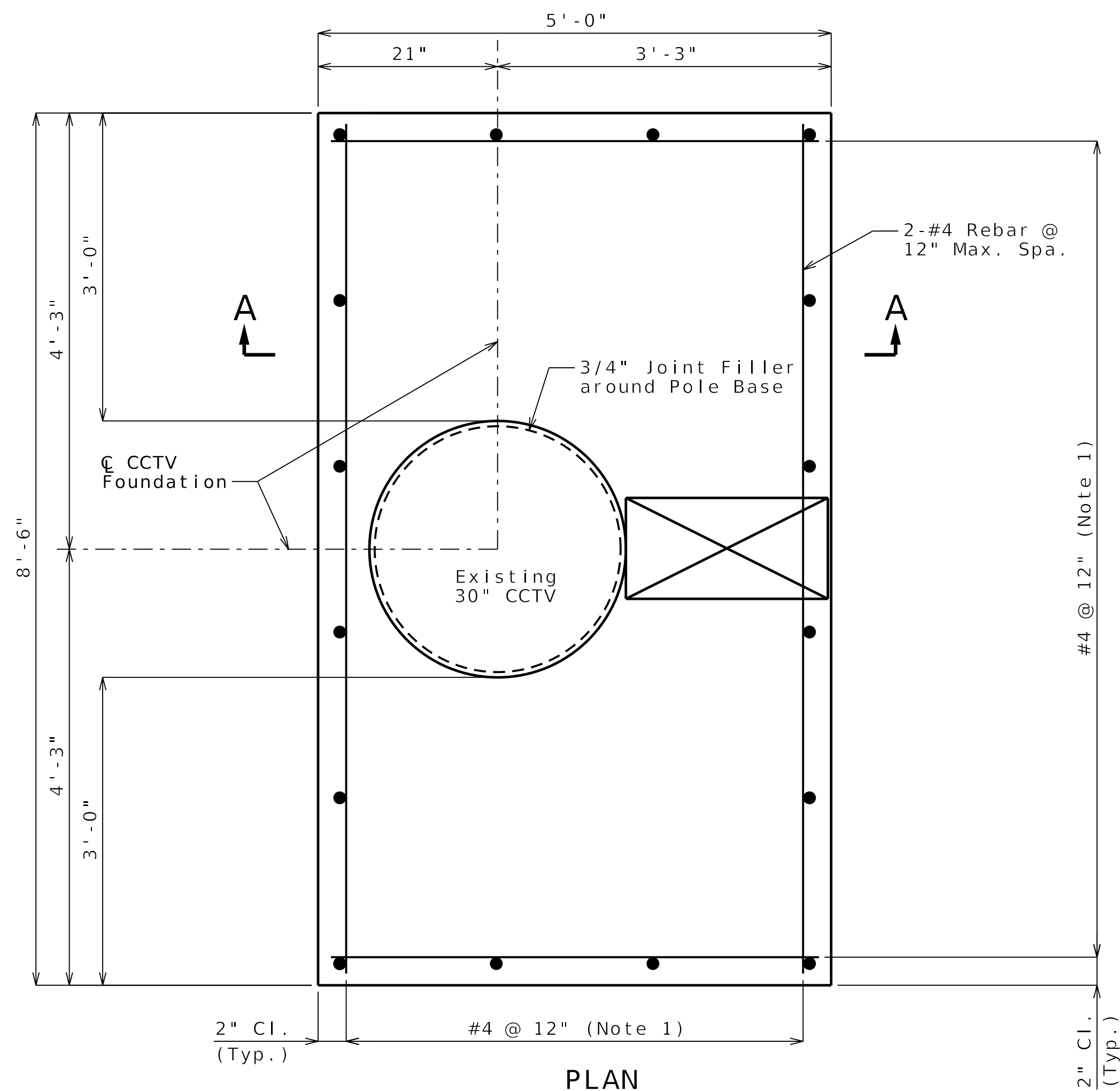
105 WEST CAPITOL
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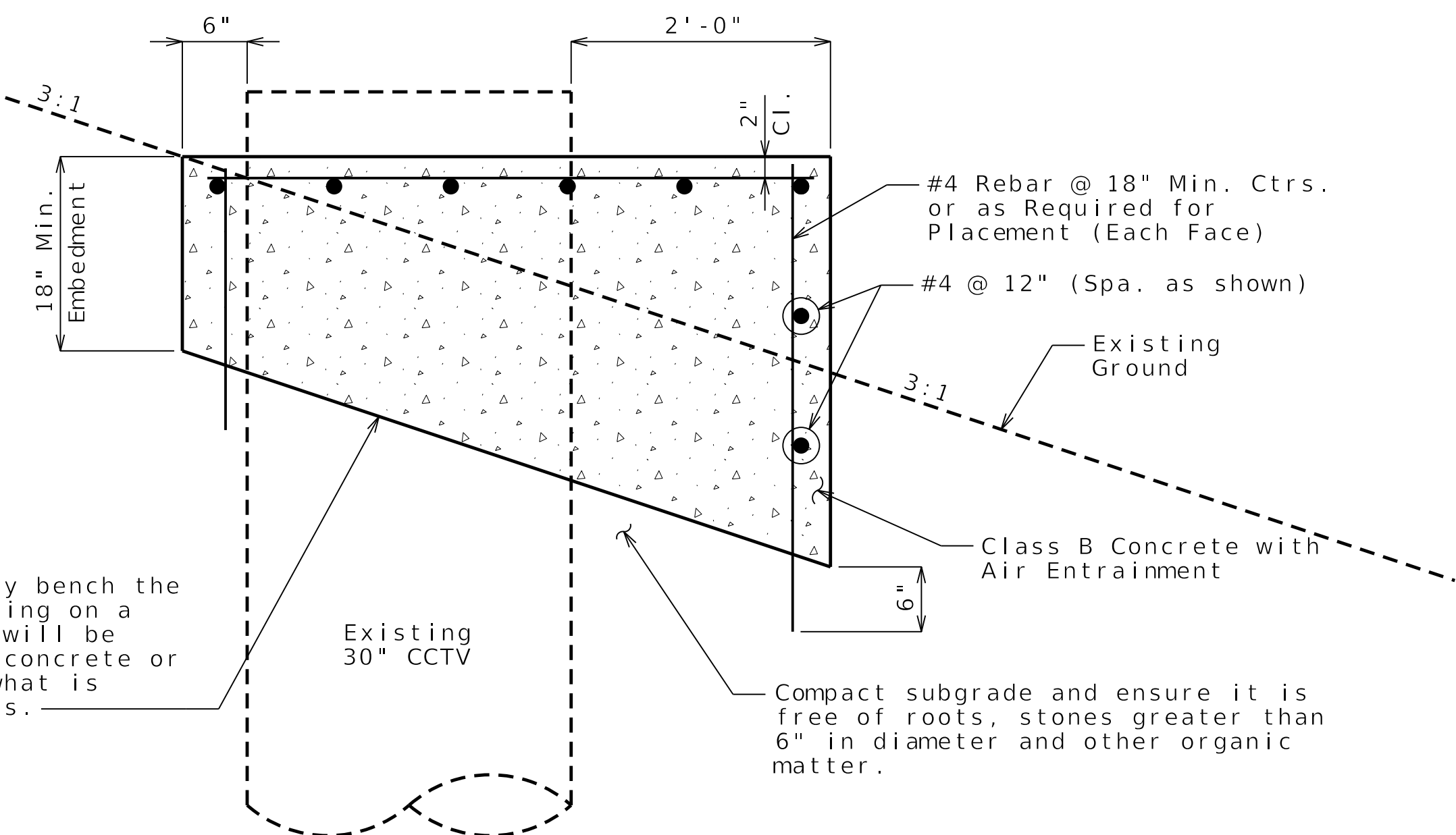
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CERTIFICATE OF
AUTHORITY NO. 001592

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

SB I-29 CA-13
(South of 72nd St.)
Location #11



PLAN



SECTION A-A

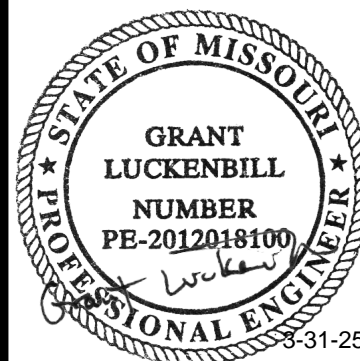
Note 1: Field trim reinforcing steel to provide 1 1/2" min. clearance to sign foundation.

Note 2: All exposed edges shall have 3/4" chamfer.

Contractor may optionally bench the slope and construct footing on a level grade. No payment will be made for any additional concrete or excavation needed from what is depicted in the bid plans.

Compact subgrade and ensure it is free of roots, stones greater than 6" in diameter and other organic matter.

CONCRETE MAINTENANCE
PAD DETAILS
SHEET 7 OF 7



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 22
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

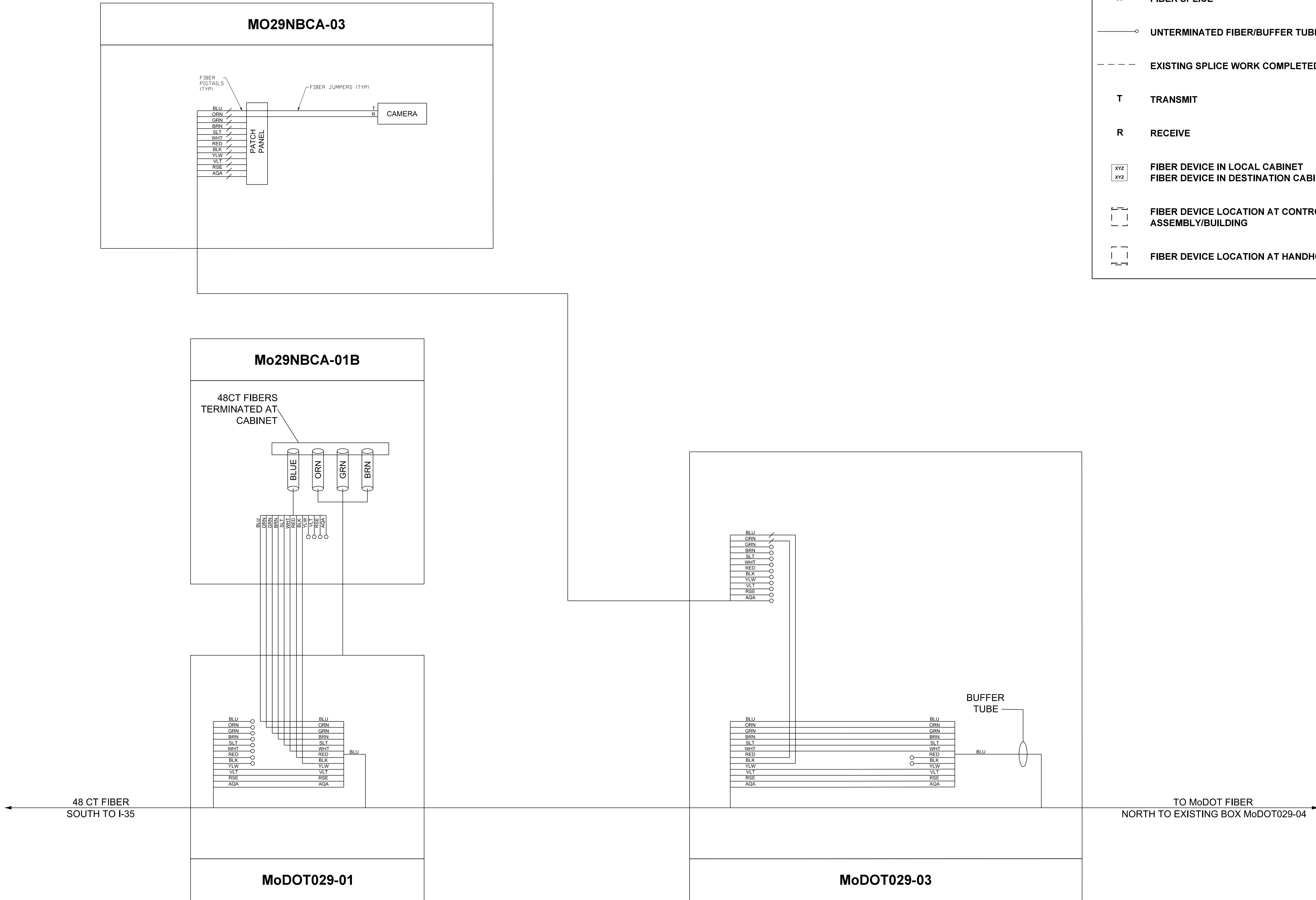
MoDOT

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LEGEND

FIBER SPLICE

FIBER SPLICE

UNTERMINATED FIBER/BUFFER TUBE/CABLE

EXISTING SPLICE WORK COMPLETED BY LIGHTCORE OR KC SCOUT

T

TRANSMIT

R

RECEIVE

XYZ

FIBER DEVICE IN LOCAL CABINET

XYZ

FIBER DEVICE IN DESTINATION CABINET

FIBER DEVICE LOCATION AT CONTROLLER ASSEMBLY/BUILDING

FIBER DEVICE LOCATION AT HANDHOLE/SPLICE VAULT

GENERAL NOTES:

DESIGN CRITERIA

CONSTRUCTION SPECIFICATIONS

2004 MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

DESIGN SPECIFICATIONS

2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (17TH EDITION) WITH CURRENT INTERIMS, AND AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, SIXTH EDITION (2013) WITH CURRENT INTERIMS.

DESIGN LOADS (CCTV POLES)

DESIGN WIND VELOCITY

90 MPH

DESIGN ICE LOAD

3 PSF

MAXIMUM HORIZONTAL DEFLECTION AT THE TOP OF THE POLE COMPLETELY ASSEMBLED WITH CCTV CAMERA ATTACHED DUE TO A 35 MPH WIND (V) SHALL NOT EXCEED 1".

DESIGN UNIT STRESSES

CLASS B-2 CONCRETE (DRILLED SHAFTS & ROCK SOCKETS)
REINFORCING STEEL (GRADE 60)

f'c = 4,000 psi
fy = 60 ksi

STRUCTURAL STEEL (CCTV POLES)
(ASTM A595 GR. A or A572 GR. 55)

fy = 55 ksi

MATERIALS

THE AVAILABILITY OF ALL STEEL SHAPES DESIGNATED ON THESE PLANS SHALL BE VERIFIED BY THE CONTRACTOR.

GALVANIZED STEEL

POSTS AND CONNECTION PLATES ATTACHED THERETO SHALL BE CONSIDERED MAIN LOAD CARRYING MEMBERS SUBJECT TO TENSILE STRESSES AND SHALL MEET SUPPLEMENTARY REQUIREMENTS FOR NOTCH TOUGHNESS.

STEEL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR. 55. HEAVY HEX STEEL NUTS SHALL CONFORM TO ASTM A563. STEEL WASHERS SHALL CONFORM TO ASTM F436. ALL EXPOSED HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A153.

STEEL CAPS FOR TOP OF POSTS SHALL CONFORM TO ASTM SPECIFICATION A27 GRADE 70-36.

WELDING OF STEEL SHALL BE AS SPECIFIED IN AWS D1.1.

AFTER COMPLETE FABRICATION, EACH STEEL SECTION SHALL BE HOT -DIPPED GALVANIZED ACCORDING TO THE REQUIREMENTS OF ASTM A123.

REINFORCEMENT

ALL REINFORCEMENT STEEL SHALL BE ASTM 615 GRADE 60.

CONCRETE

ALL CONCRETE FOR FOUNDATIONS SHALL BE CLASS B-2 CONCRETE UNLESS OTHERWISE SPECIFIED.

GROUT

ALL GROUT SHALL BE IN ACCORDANCE WITH SEC 1066, MORTAR FOR GROUT.

SHOP DRAWINGS

SHOP DRAWINGS OF STRUCTURAL STEEL, CONCRETE REINFORCING, AND TENON/CCTV ASSEMBLY SHALL BE PROVIDED FOR ENGINEER OF RECORD REVIEW PRIOR TO FABRICATION AND CONSTRUCTION.

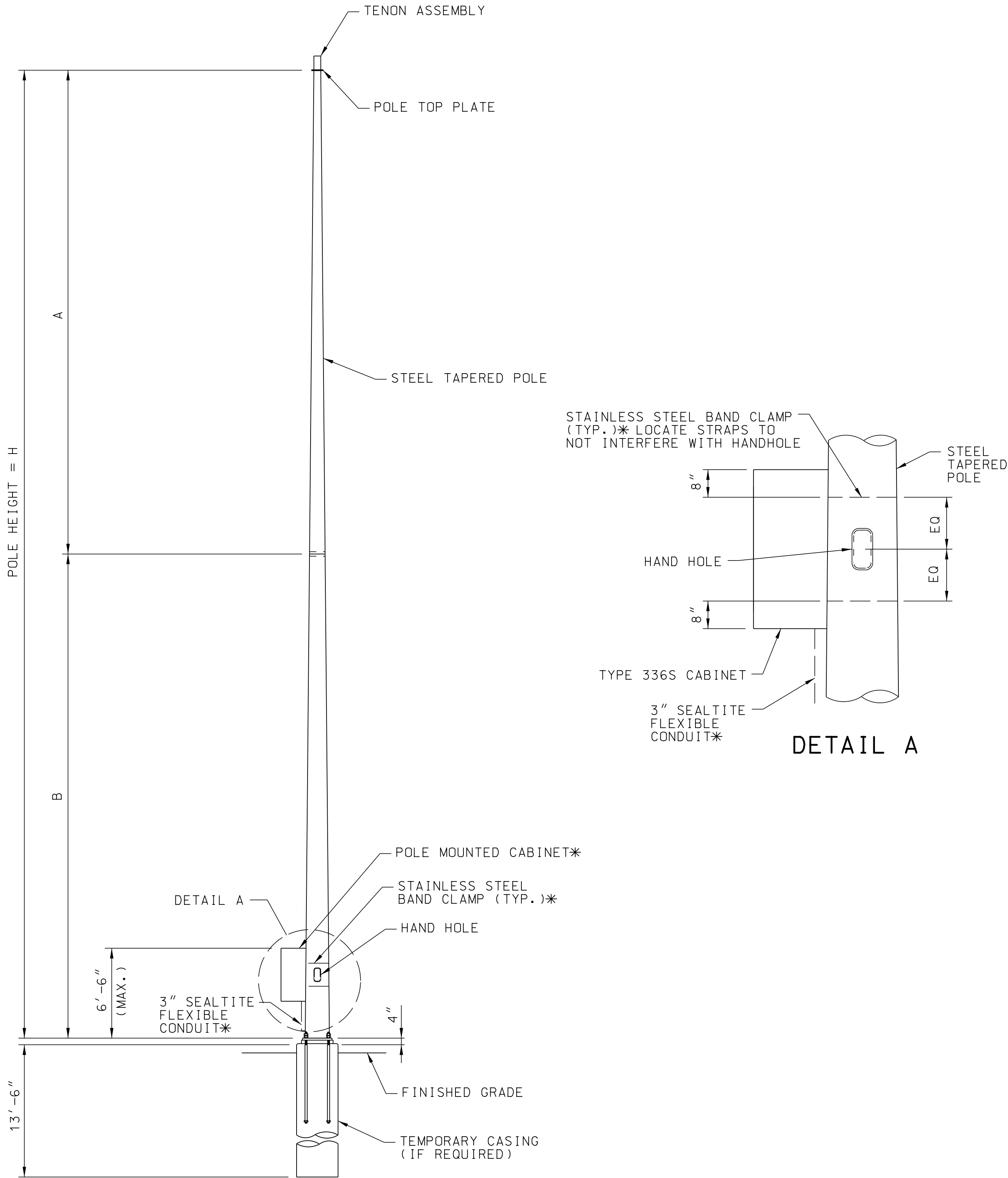
FOUNDATIONS

SPECIFIED PILE DEPTH WAS DETERMINED USING BROMS METHOD FOR COHESIONLESS AND COHESIVE SOILS AS DESCRIBED IN CHAPTER 13 OF AASHTO LTS 6TH ED (ASD). THE SAFETY FACTOR USED FOR PILE DEPTH DETERMINATION WAS 3.5. SUBGRADE SURROUNDING THE LOCATION OF THE FOUNDATION WAS ASSUMED TO BE RELATIVELY FLAT. NO ACCOMMODATIONS HAVE BEEN MADE FOR THE INSTALLATION OF FOUNDATION IN SLOPING SOILS.

FOR COHESIONLESS SOILS, A VALUE OF 25 DEGREES WAS ASSUMED FOR THE ANGLE OF INTERNAL FRICTION (Φ) AND 110 PCF - 62 PCF = 48 PCF WAS ASSUMED FOR THE EFFECTIVE UNIT WEIGHT OF SOIL (γ) WITH HIGH GROUND WATER TABLE.

FOR COHESIVE SOILS, A VALUE OF 0.5 KSF WAS ASSUMED FOR COHESIVE SOIL STRENGTH (C).

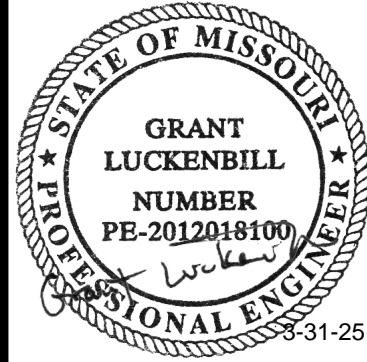
CONTRACTOR SHALL VERIFY THAT THE SOILS IN THE AREA OF INSTALLATION CONFORM TO OR EXCEED THE ASSUMED VALUES.



TYPICAL CAMERA POLE

* TYPE 336S POLE MOUNTED CABINET

POLE TABLE								
POLE HEIGHT (FT) H	A				B			
	DIA. @ TOP	DIA. @ BOTT.	THICKNESS	LENGTH (FT)	DIA. @ TOP	DIA. @ BOTT.	THICKNESS	LENGTH (FT)
70	11 1/4"	16 1/8"	7/16"	35	16 1/8"	21"	7/16"	35



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 24
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

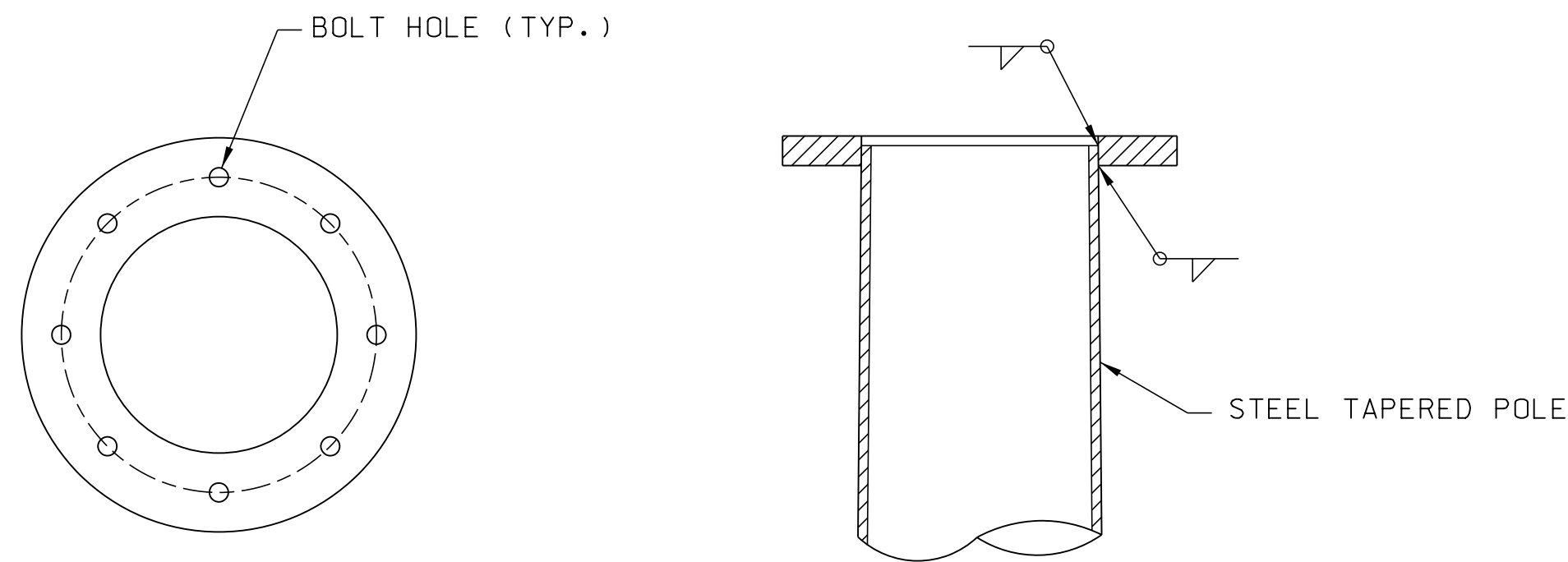
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

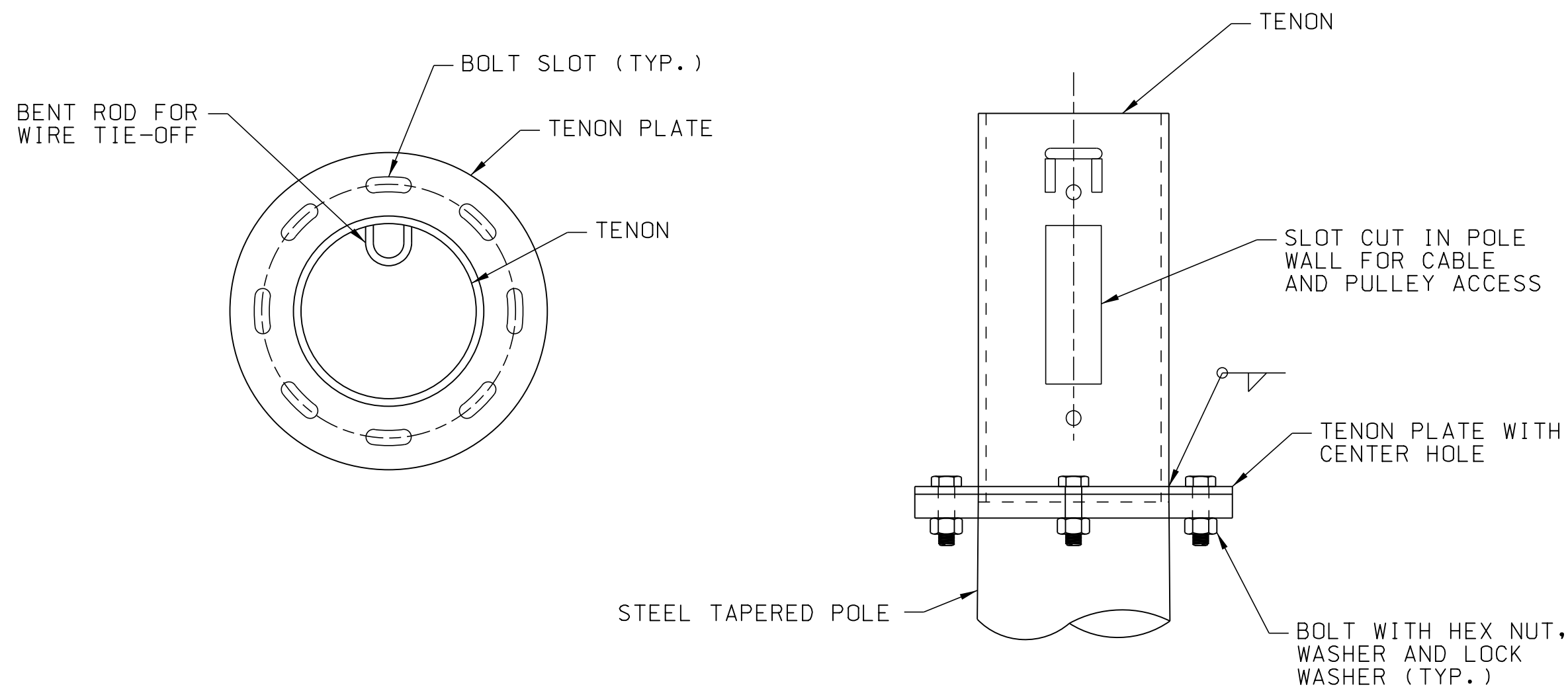
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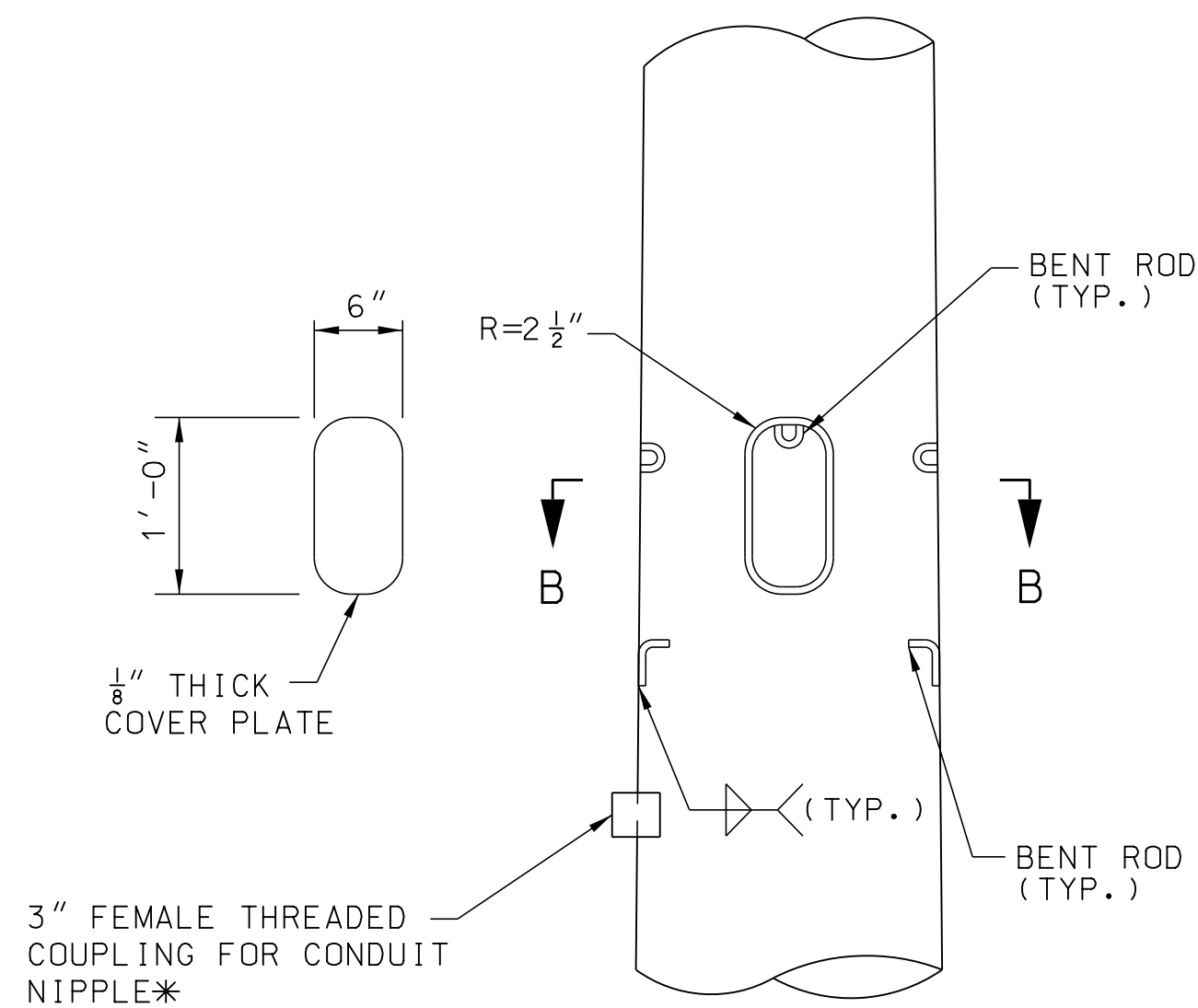
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CERTIFICATE OF AUTHORITY NO. 001592



POLE TOP PLATE DETAIL

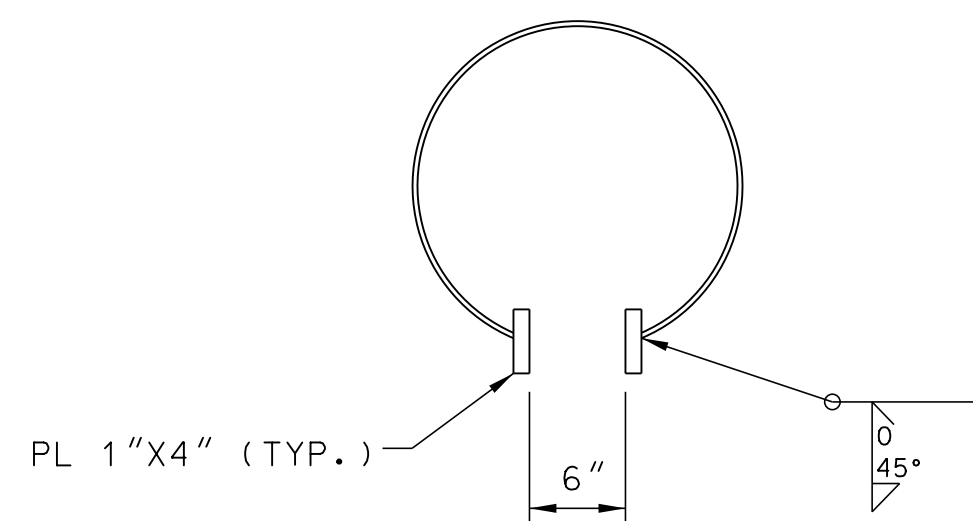


TENON ASSEMBLY DETAILS

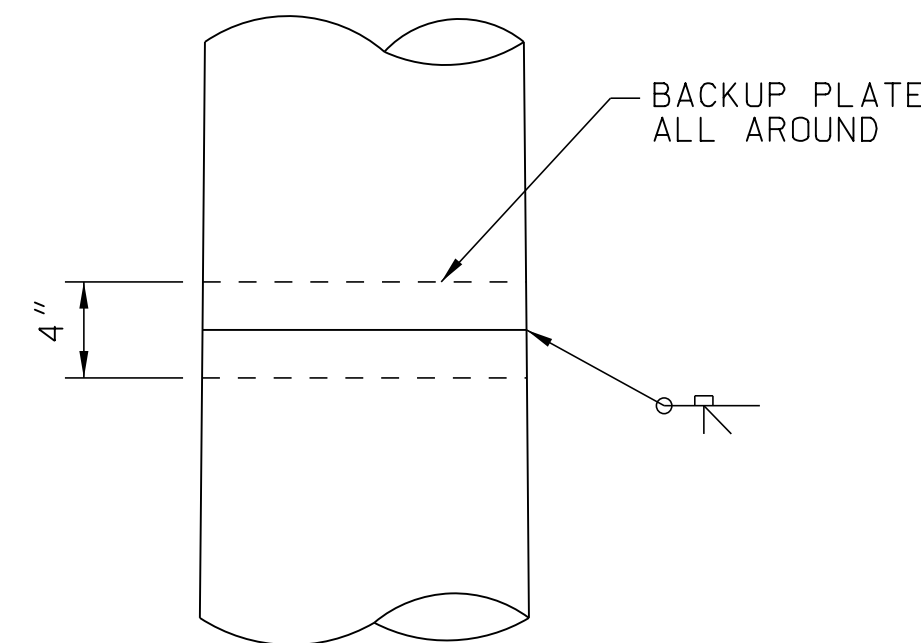


HANDHOLE AND CONDUIT ENTRY DETAILS

* TYPE 336S POLE MOUNTED CABINET



SECTION B-B



POLE SPLICE DETAIL

70ft+ POLE ONLY

NOTES:

ALL FOUNDATIONS SHALL BE GROUNDED.

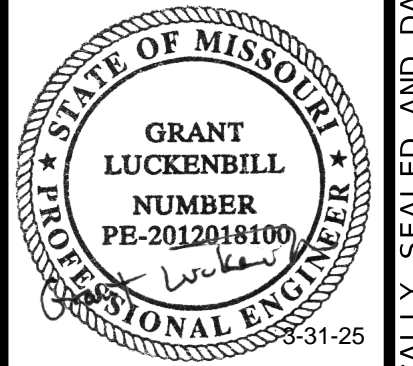
IF THE GROUNDING ROD CANNOT BE INSTALLED VERTICALLY WITHOUT DAMAGE, THE GROUND ROD MAY BE INSTALLED AT 45 DEG (MAX.) FROM VERTICAL.

ALL CONDUITS AND ANCHOR BOLTS SHALL BE RIGIDLY INSTALLED BEFORE THE CONCRETE IS PLACED. ANCHOR BOLTS SHALL BE SPACED BY MEANS OF A TEMPLATE, THE CENTER OF WHICH SHALL COINCIDE WITH THE CENTER OF THE FOUNDATION.

HANDHOLD SHALL BE APPROXIMATELY 6"x12". HANDHOLE FRAME SHALL BE REINFORCED SO THAT THE POLE STRENGTH IS NOT REDUCED. SUPPLY 1/8" HANDHOLE COVER WITH 3/4" LONG BOLTS FOR ATTACHING COVER TO HANDHOLE REINFORCING.

TENON ASSEMBLY SHALL BE PER THE LOWERING DEVICE MANUFACTURER'S DETAILS. COORDINATE POLE TOP PLATE DETAILS WITH TENON ASSEMBLY DETAILS. TENON ASSEMBLY SHALL BE SHOWN ON SHOP DRAWING SUBMITTAL.

ITS DETAILS
SHEET 3 OF 6



DATE PREPARED
03/03/2025

ROUTE
VAR.
DISTRICT
KC

STATE
MO
SHEET NO.
26

COUNTY
PLATTE/CLAY

JOB NO.
JKU0108

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

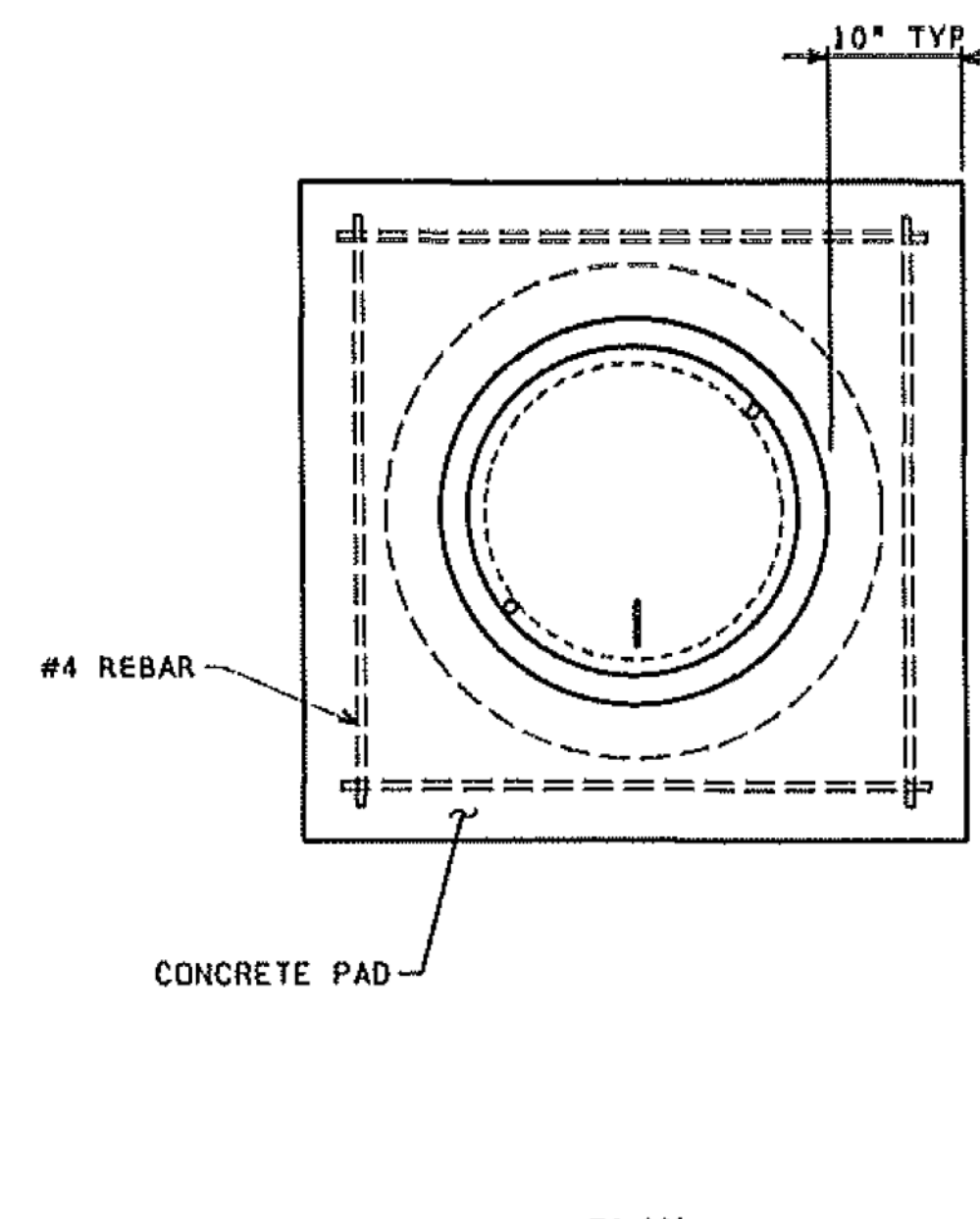
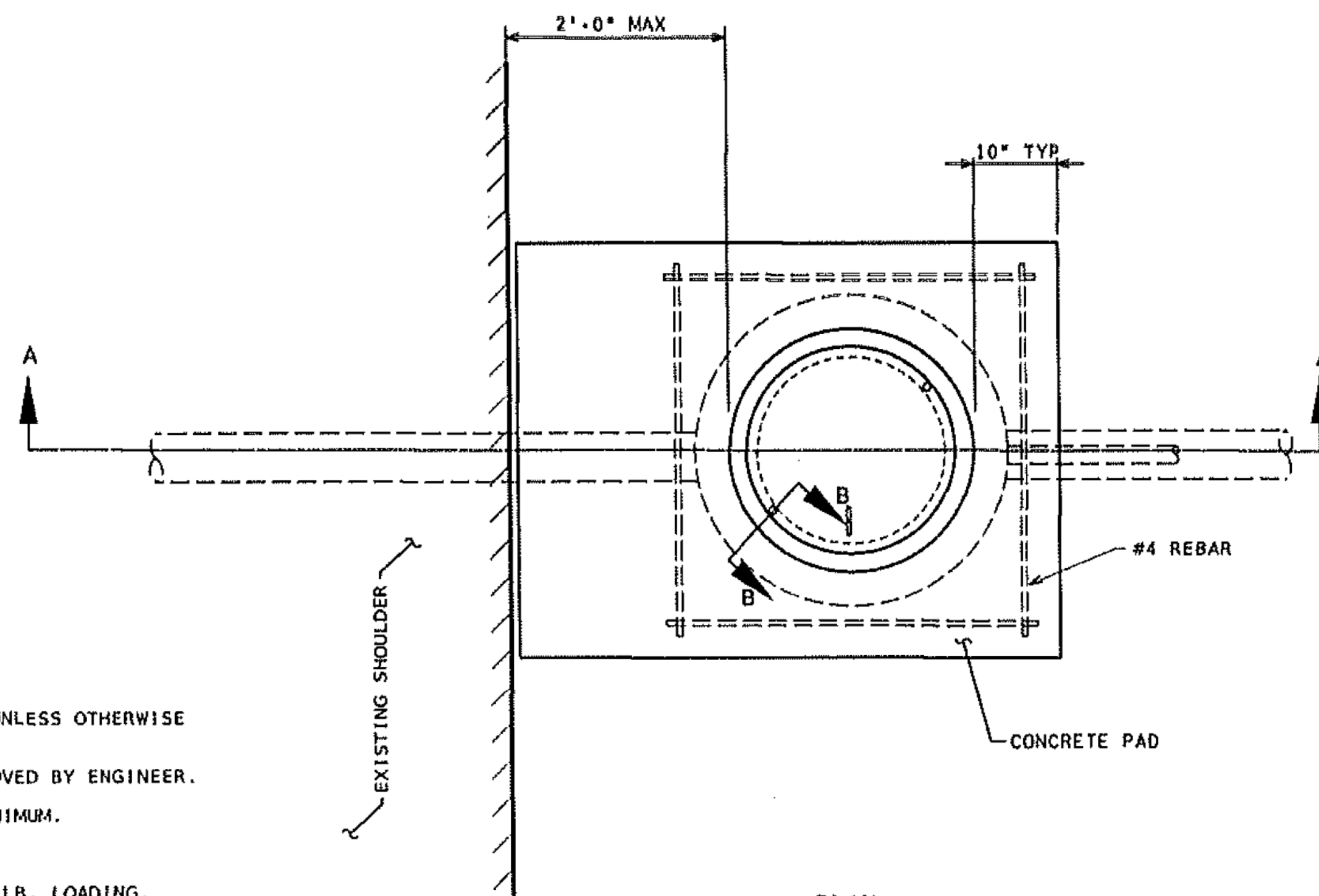
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COMMISSION

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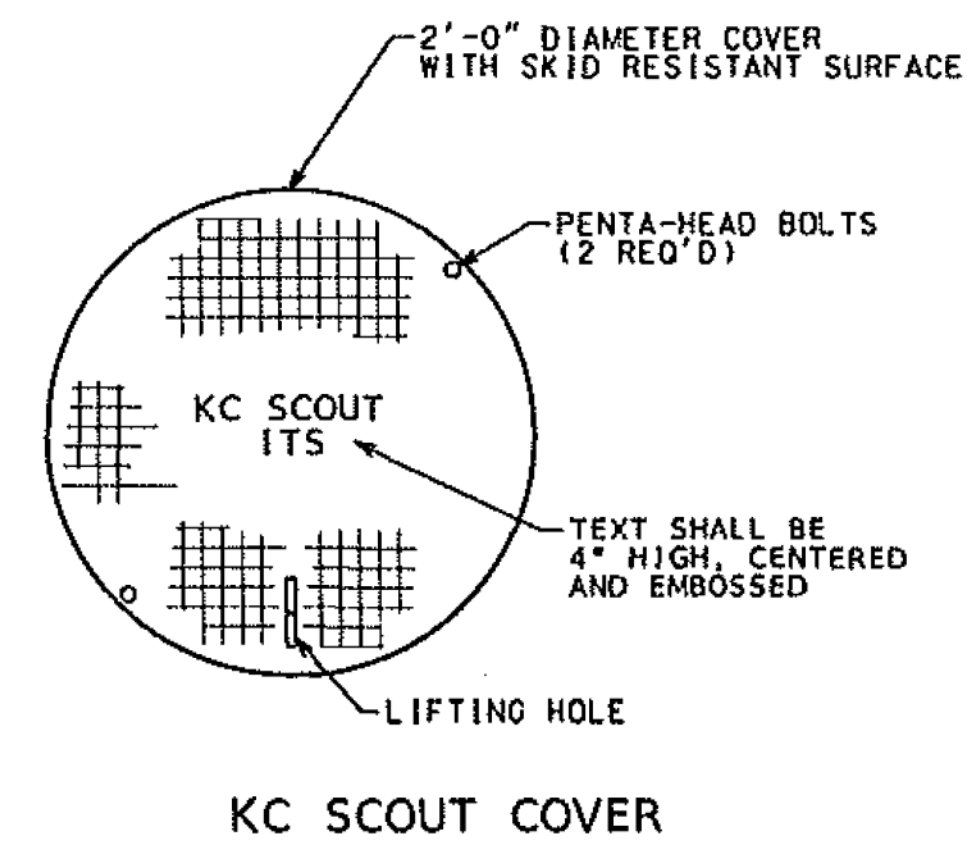
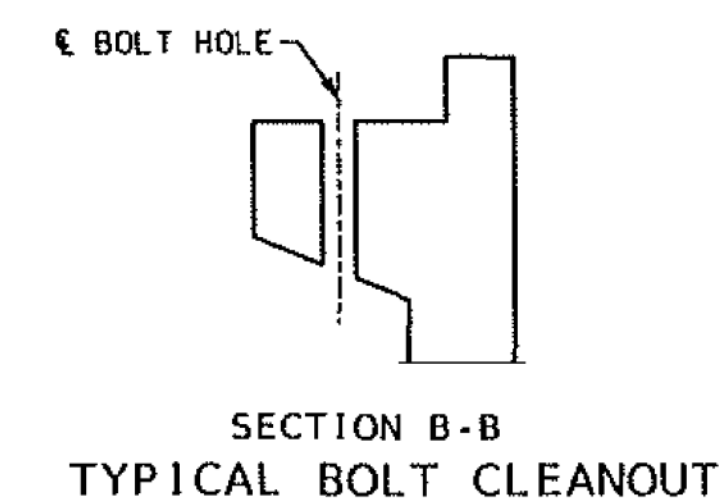
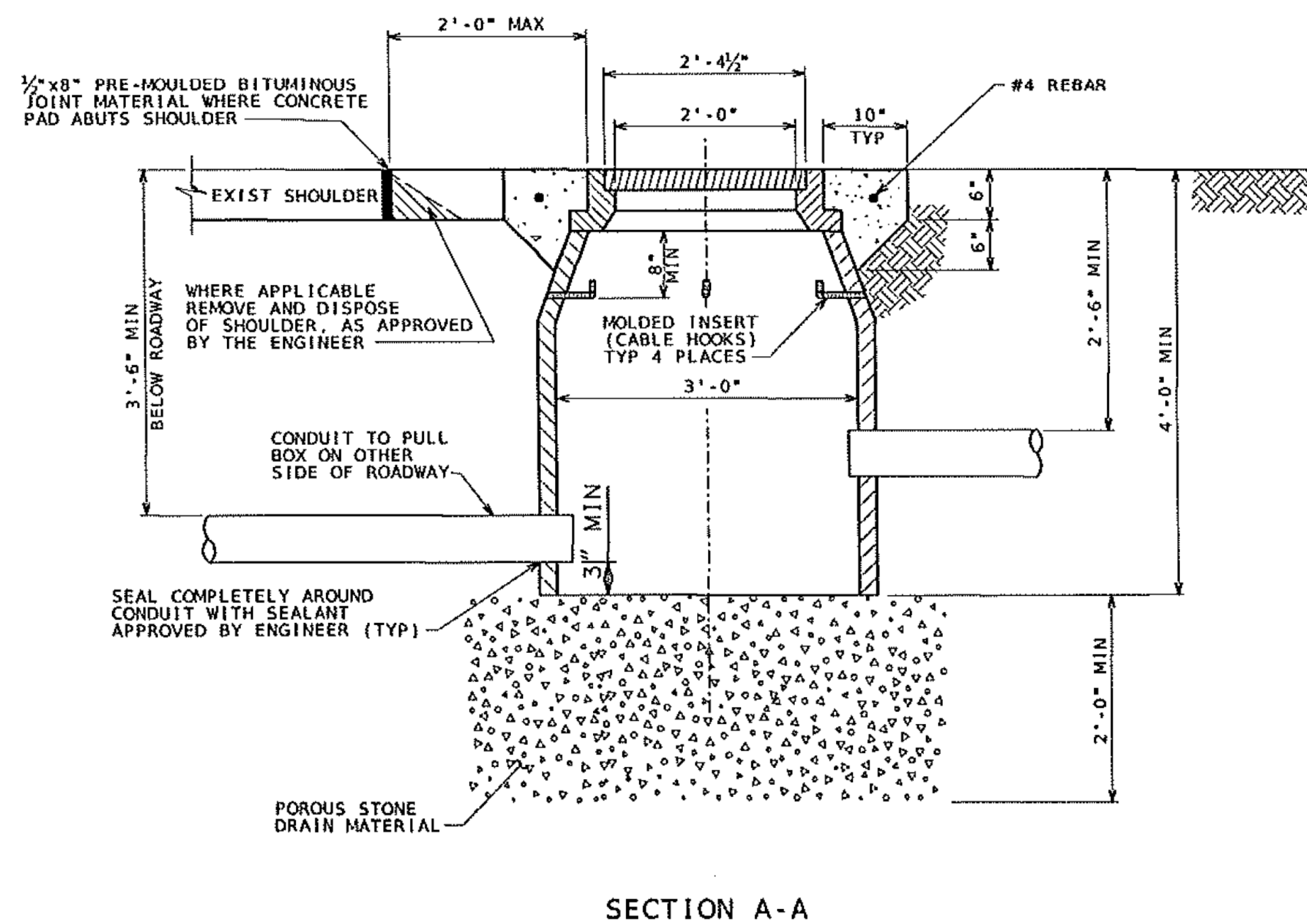
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CERTIFICATE OF
AUTHORITY NO. 001592



- NOTES:

1. ALL DIMENSIONS SHOWN ARE NOMINAL, UNLESS OTHERWISE SPECIFIED.
2. BOLT CLEANOUT DETAIL SHALL BE APPROVED BY ENGINEER.
3. ALL CONCRETE SHALL BE 3,000 PSI MINIMUM.
4. LIFT HOLE REQUIRED ON ALL COVERS.
5. COVER SHALL BE A MINIMUM OF 20,000 LB. LOADING.
6. STONE DRAIN MATERIAL SHALL CONFORM TO SECTION 1009 OF THE STANDARD SPECIFICATIONS.
7. LABEL ALL COVERS "KC SCOUT ITS" UNLESS NOTED OTHERWISE ON PLANS.



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SECTION 327.411 RSMO) SPECIFICATION,
ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR
INSTRUMENTS NOT SEALED BY THE UNDERSIGNED
PROFESSIONAL RELATING TO OR INTENDED TO BE
USED FOR ANY PART OF PARTS OF THE PROJECT
TO WHICH THIS PAGE REFERS.

FIBER SPLICE VAULT DETAILS

ITS DETAILS
SHEET 4 OF 6

\$FILE\$	\$TIMES\$	\$DATE\$
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DATE PREPARED
03/03/2025

ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 27

COUNTY	PLATTE / CLAY
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JOB NO.	
JKU0108	

CONTRACT ID.	
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PROJECT NO.	13
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BRIDGE NO.	
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

ALL SERVICE POWER SUPPLY ASSEMBLIES
ARE TO BE LOCATED ON STATE PROPERTY.

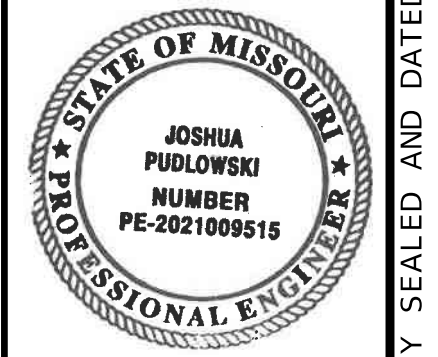


TYPE 2 (PEDESTAL) UNDERGROUND SERVICE

**TYPE 1 (POLE)
OVERHEAD SERVICE**

ITS DETAILS
SHEET 5 OF 6

\$FILES\$	\$TIMES\$	\$DATES\$
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DATE PREPARED
03/03/2025

ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 28


COUNTY
PLATTE / CLAY

JOB NO.
JKU0108

CONTRACT ID.	ET
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PROJECT NO.	5
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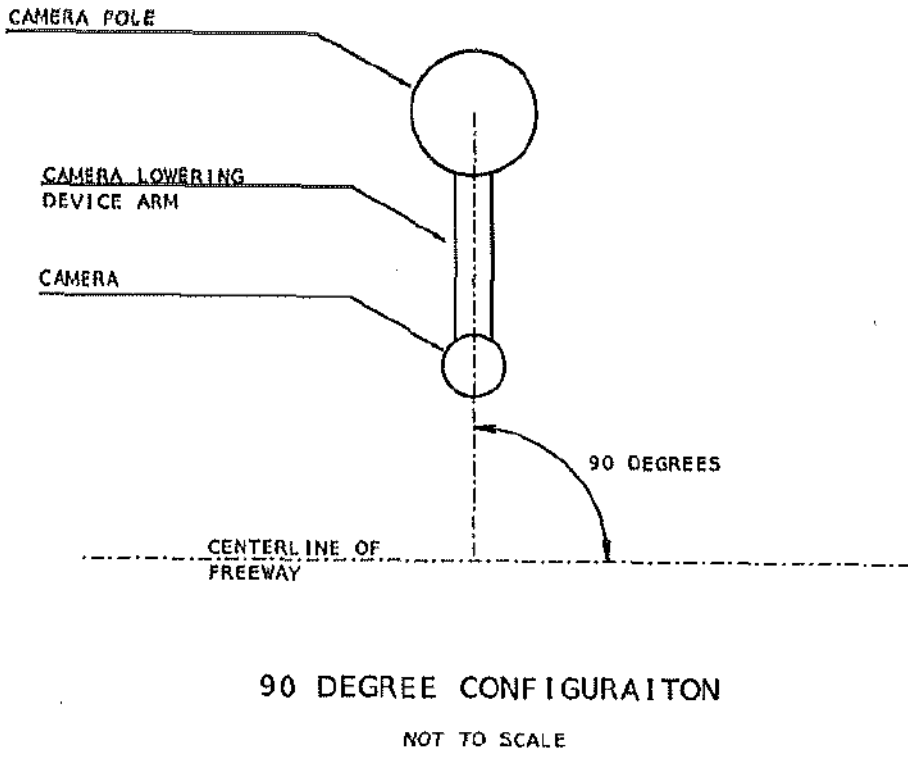
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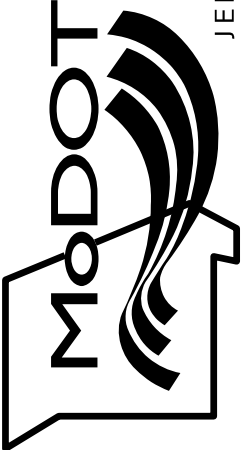
CAMERA ORIENTATION TO ROADWAY		
SHEET NO.	CAMERA LOCATION	CAMERA MOUNTING ANGLE
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9	M435SBC-70	90



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 29
COUNTY PLATTE / CLAY	
JOB NO. JKU0108	
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.

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'

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

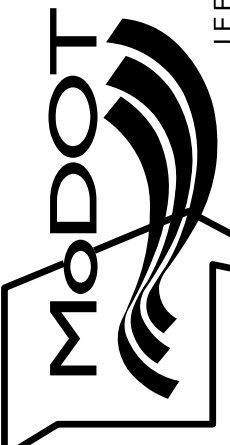
TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35'	40'
40-45	450'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



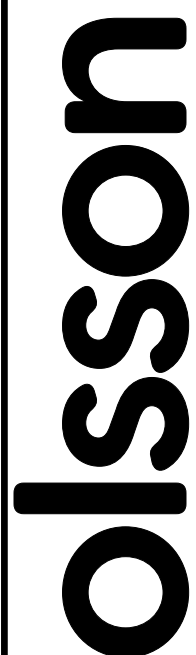
DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 30
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
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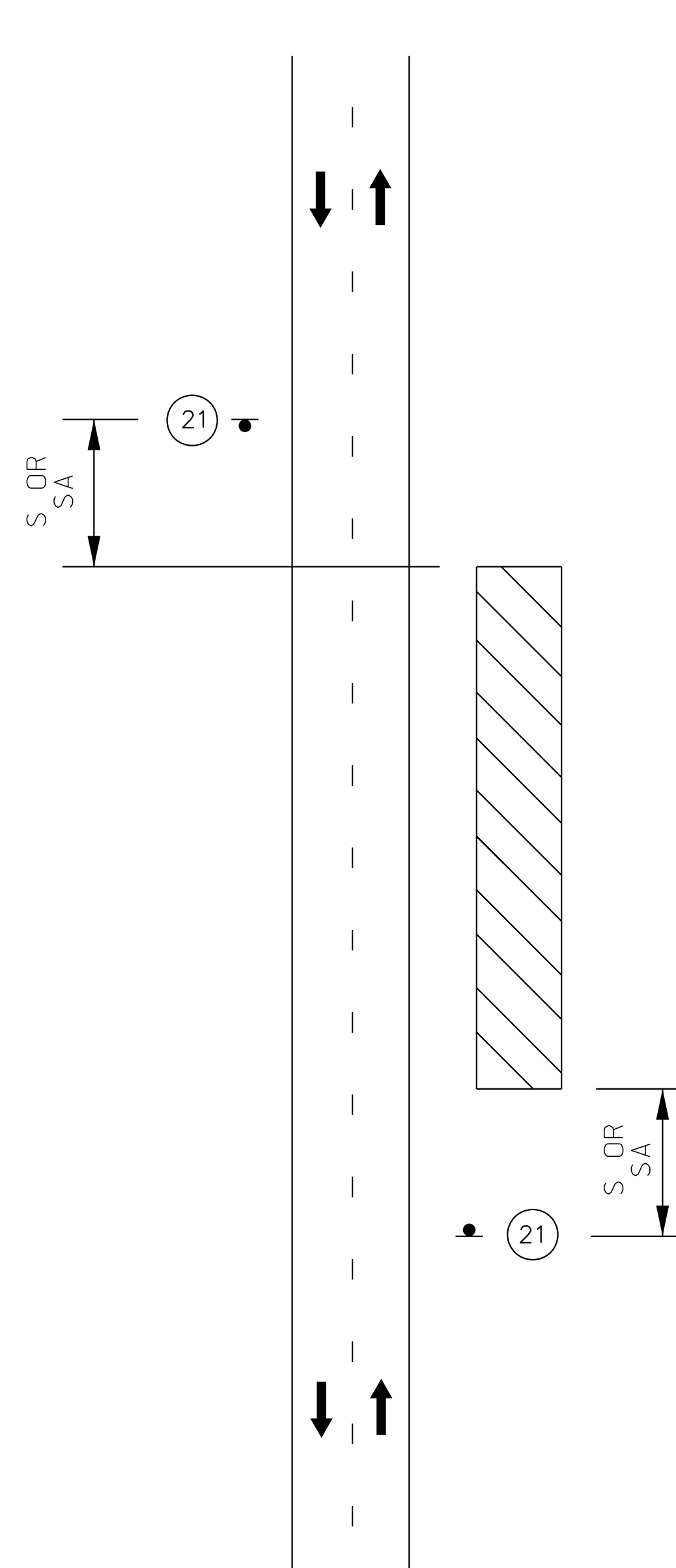


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WORK BEYOND SHOULDER

NOTES:

ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.

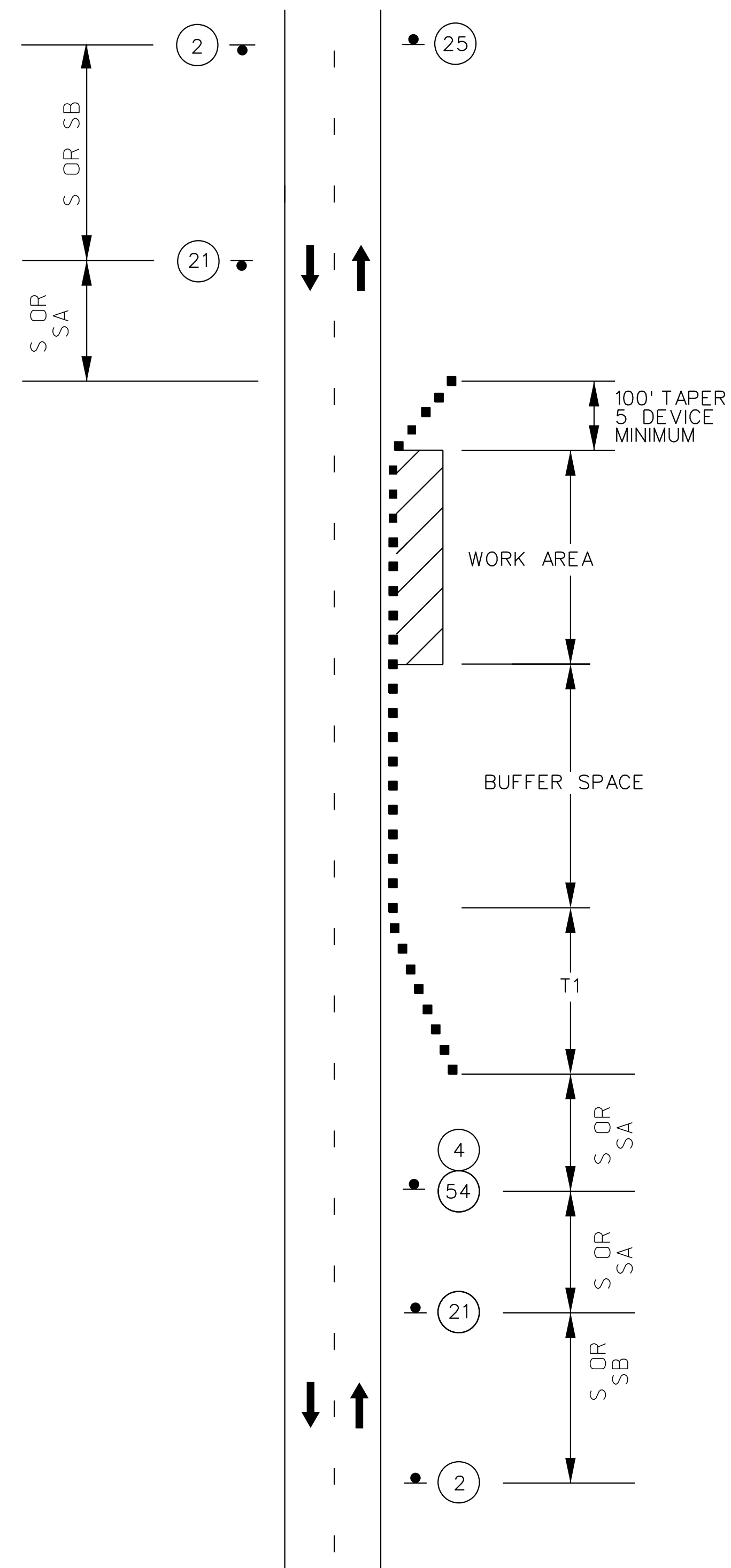
SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE
SPACING AND CHANNELIZING TAPER LENGTHS.

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

ON MULTI-LANE, DIVIDED HIGHWAYS SIGNS ADVISING OF SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.

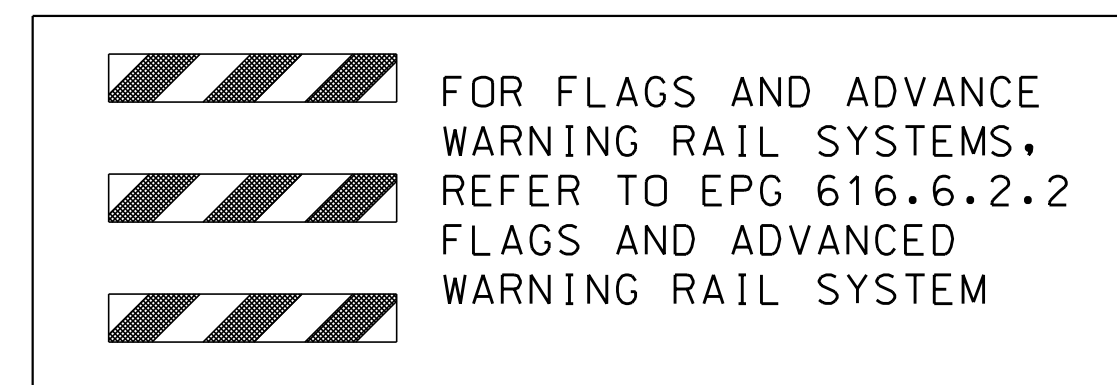
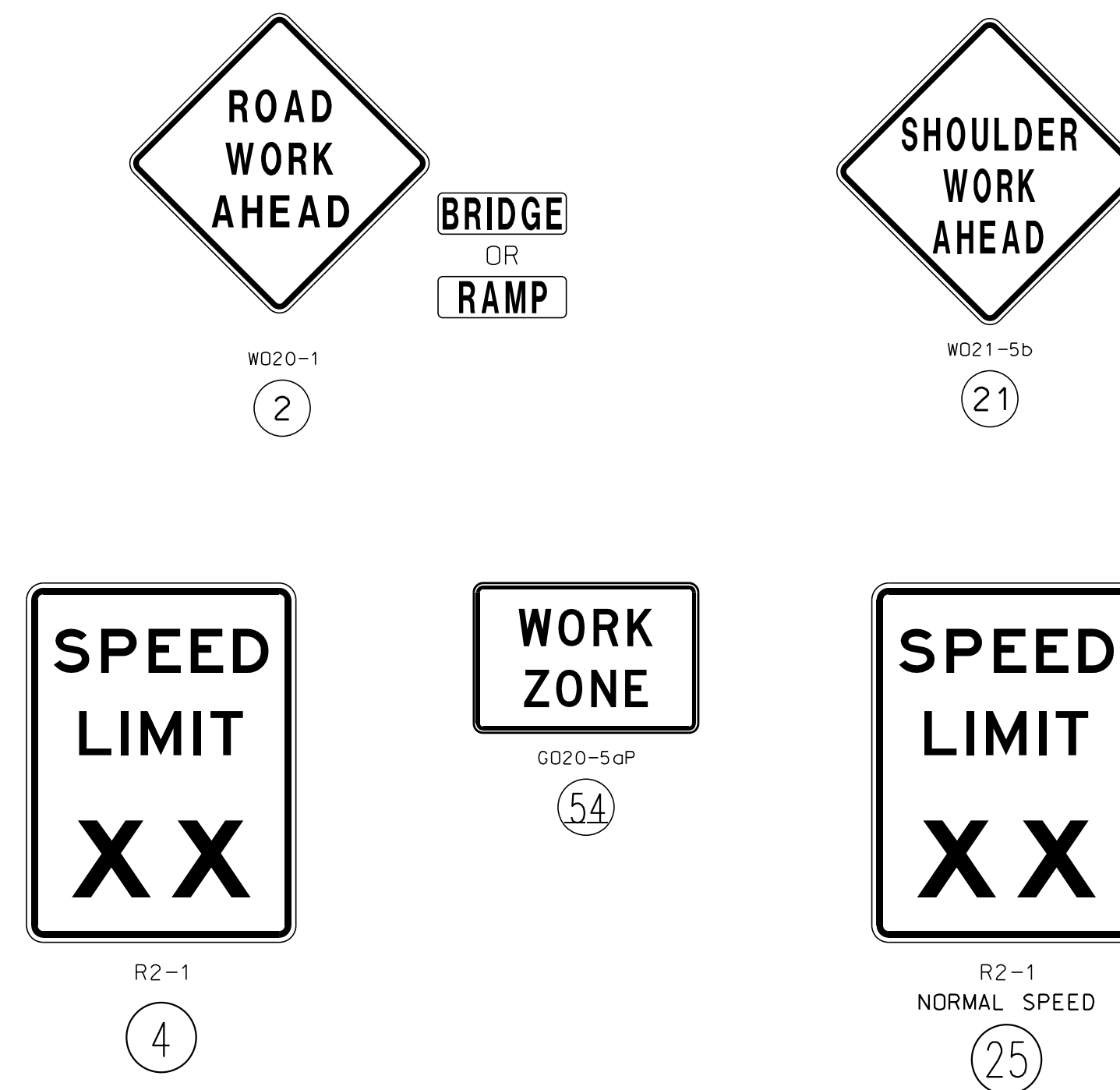
VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

TA-01



SHOULDER WORK WITH NO
TRAVELWAY ENCROACHMENT

TA-03



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.

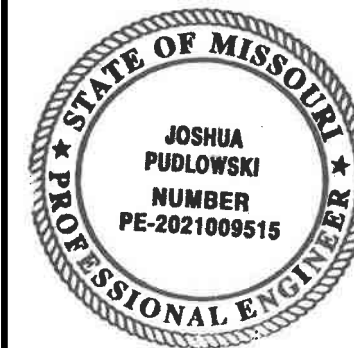
SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

PROVIDE SIGNS ON LEFT AND RIGHT SIDE OF DIVIDED HIGHWAYS.

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

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

TEMPORARY
TRAFFIC CONTROL
SHEET 2 OF 6



DATE PREPARED

03/03/2025

ROUTE	STATE
VAR	MO

[illegible]

DISTRICT	SHEET NO
KC	31

KC	31
COUNTY	

PLATTE / CLAY

PLATTE/CLAY
JOB NO.

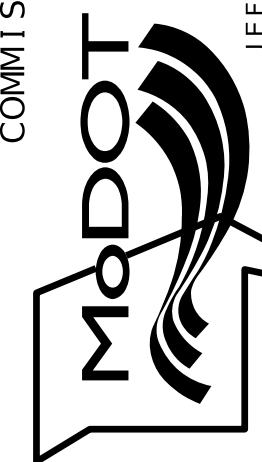
JKU0108

JR00100
CONTRACT ID.

CONTRACT 121

PROJECT NO.

BRIDGE NO.

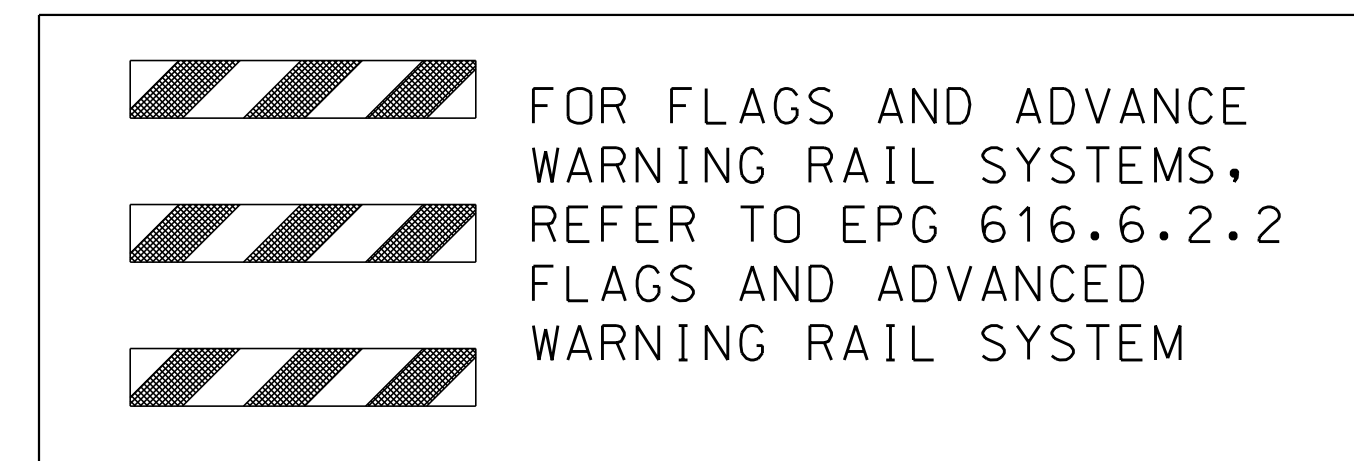
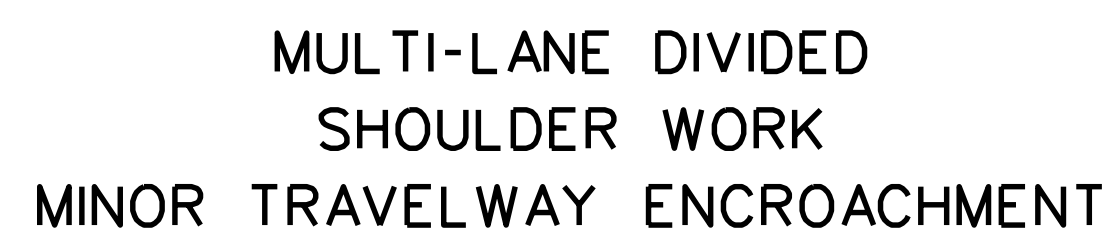
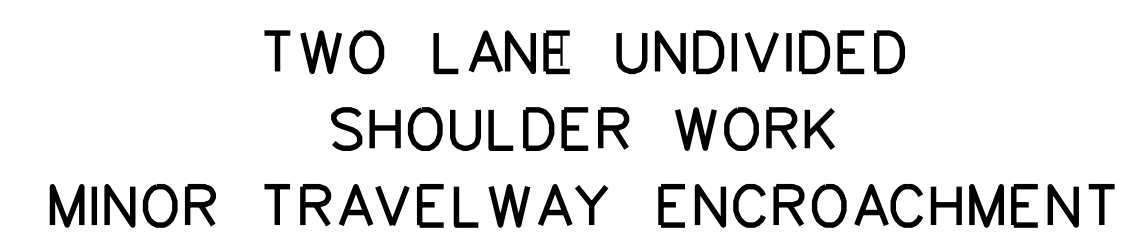
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

olsson

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

[illegible]



SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.

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

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

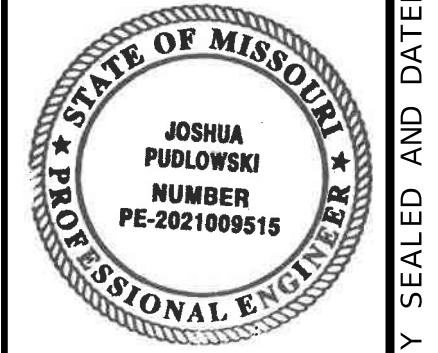
THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

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

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

SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.



DATE PREPARED
03/03/2025

ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 32


COUNTY
PLATTE / CLAY

JOB NO.
JKU0108

CONTRACT ID.	ET
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PROJECT NO.	5
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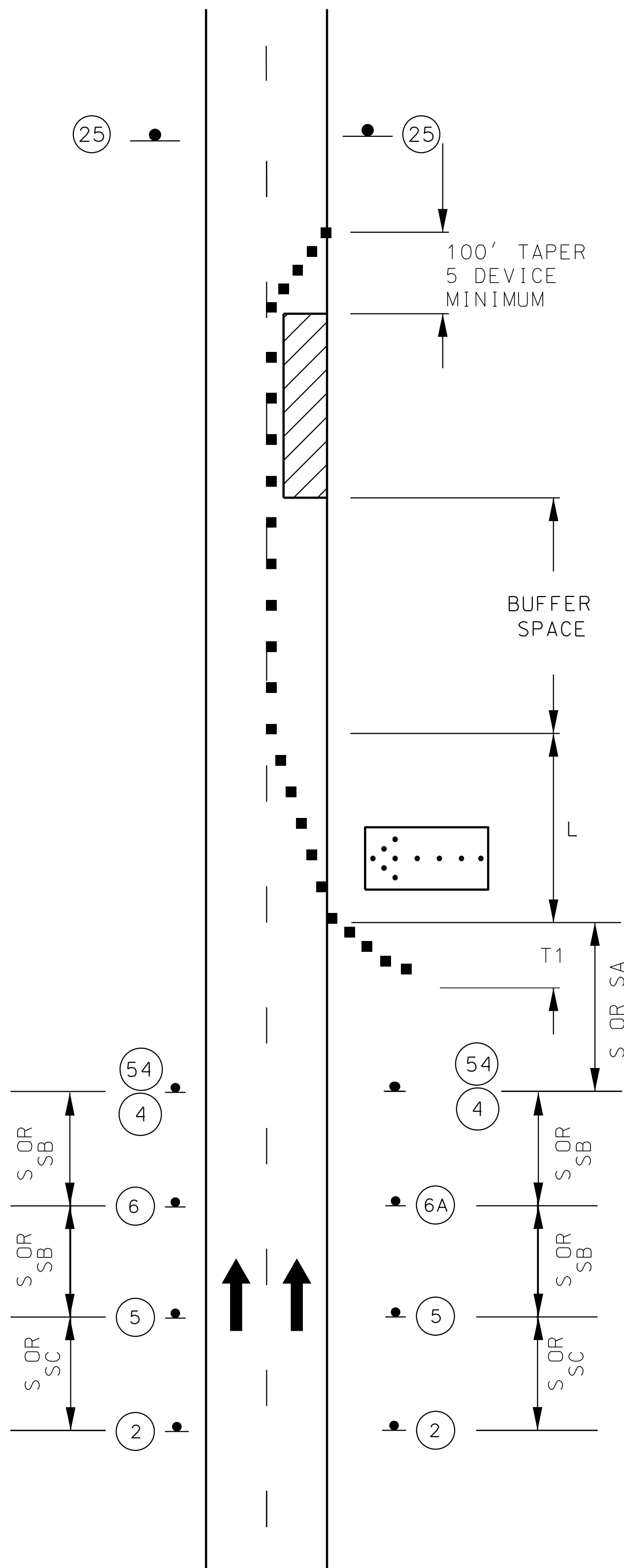
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

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CERTIFICATE OF
AUTHORITY NO. 001592



TWO-LANE DIVIDED HIGHWAY

TA-33

BRIDGE
OR
RAMP
W025-6

ROAD
WORK
AHEAD
W020-1
2

CENTER
LANE
CLOSED
AHEAD
W020-5
5

LEFT
OR
RIGHT

RIGHT
LANE
CLOSED
W020-6a
6

CENTER
OR
LEFT

MERGE
W04-1a
6A

SPEED
LIMIT
XX
R2-1
4

SPEED
LIMIT
XX
R2-1
NORMAL SPEED
25

WORK
ZONE
G020-5aP
54

FLASHING
ARROW PANEL

CHANNELIZERS

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

- NOTES:
- SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.
- THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PREFORMED 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 SIGN 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 TA-34 LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER.
- REVIEW EPG TA-34a LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS DE/CM FOR A LANE CLOSURE WITH WIDTH RESTRICTIONS.
- 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.
- REVIEW EPG 616.6.83 WARNING LIGHTS WHEN SEQUENTIAL OR WARNING LIGHTS SHOULD BE USED ON NIGHTTIME OPERATIONS.
- IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.
- FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAG AND ADVANCE WARNING RAIL SYSTEM.
- REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 33
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

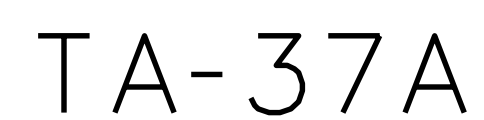
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
CERTIFICATE OF
AUTHORITY NO. 001592

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



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.

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

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

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

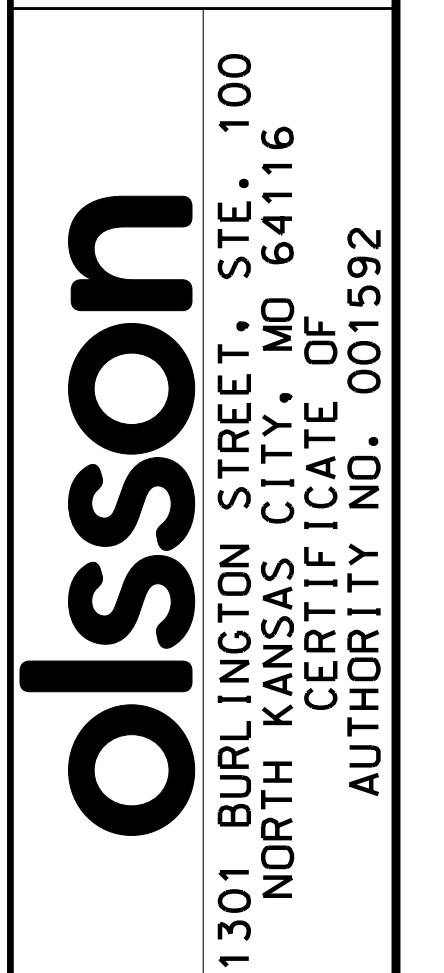
FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

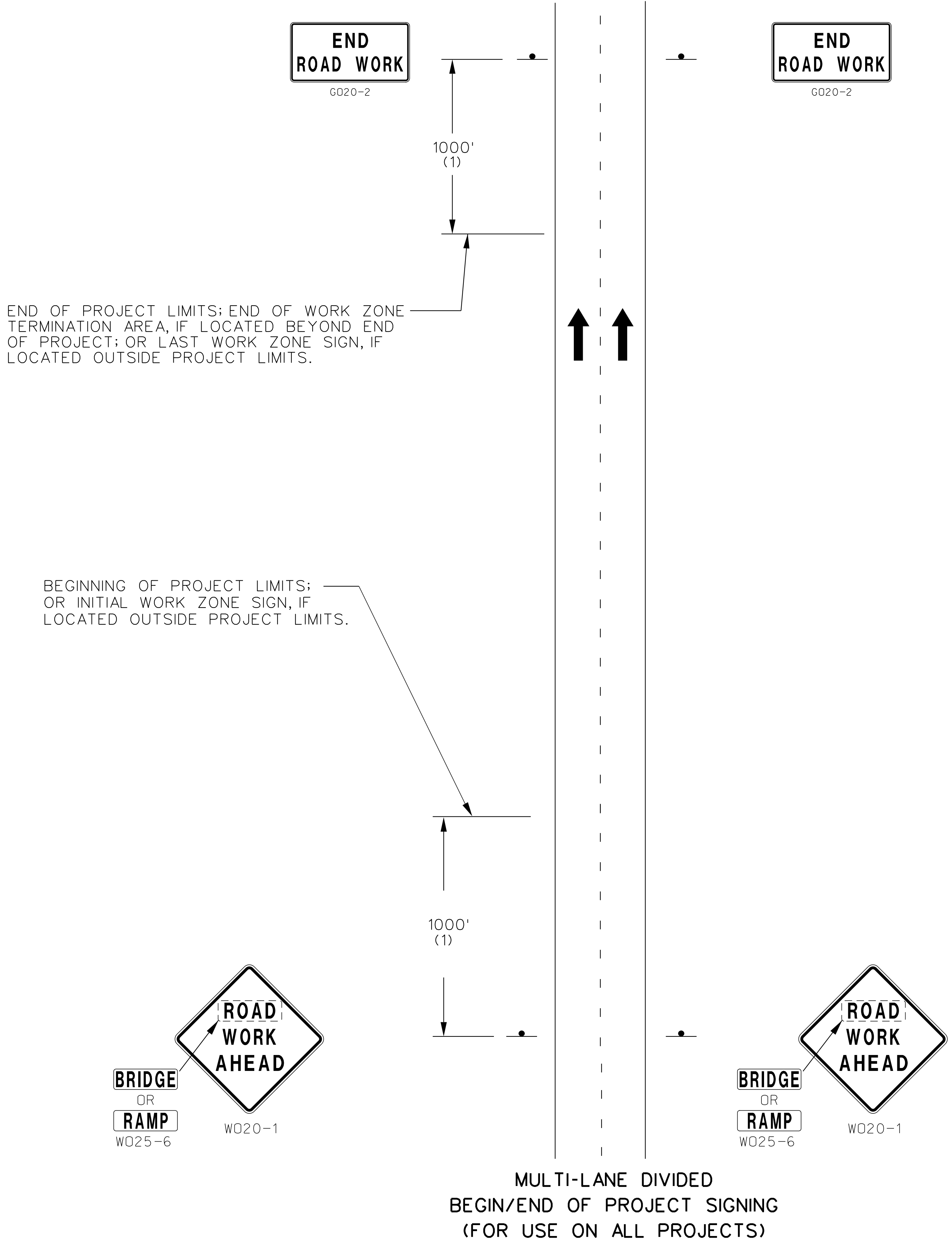
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

A FLASHING 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.

TEMPORARY
TRAFFIC CONTROL
SHEET 5 OF 6

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NOTES:

SIGN W020-1 IS REQUIRED PER EPG 616.6.56.

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.

TEMPORARY
TRAFFIC CONTROL
SHEET 6 OF 6



DATE PREPARED 03/03/2025	
ROUTE VAR.	STATE MO
DISTRICT KC	SHEET NO. 35
COUNTY PLATTE/CLAY	
JOB NO. JKU0108	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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