

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

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YEAR	PROJECT NO.	SHEET NO.
2025	99BVAR-F3-024	ITS-SIGN1
<b>STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION</b>		
<b>SIGNATURE SHEET</b>		

Index Of Sheets  
SEE SHEET NO. 1A

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC OPERATIONS DIVISION

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES X	NO

TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJ. NO.	CRP-9900(170)	
STATE PROJ. NO.	99BVAR-F3-024	

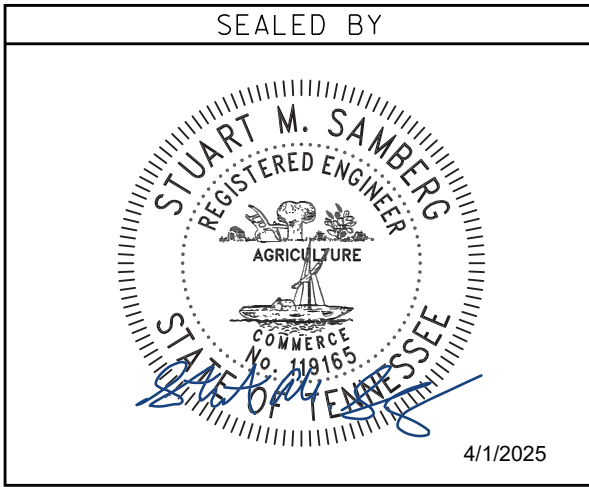
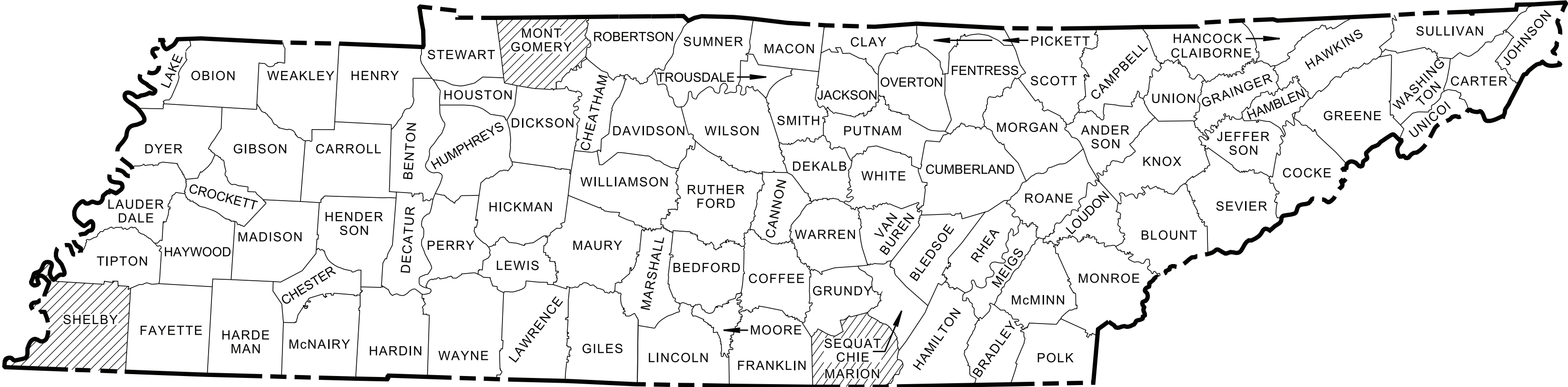
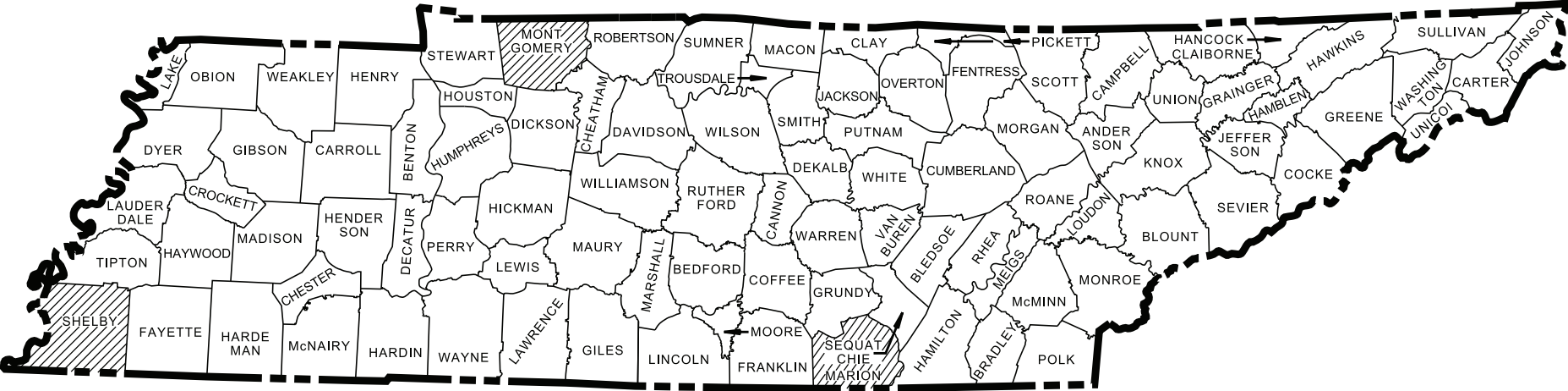
MARION, MONTGOMERY,  
AND SHELBY COUNTIES

RURAL ITS DEVELOPMENT IN MARION,  
MONTGOMERY, AND SHELBY COUNTIES

PS&E

ITS

INTERSTATE 24, TENNESSEE STATE ROUTE 385



APPROVED:   
WILL REID, DEPUTY COMMISSIONER/  
CHIEF ENGINEER

DATE: \_\_\_\_\_

APPROVED:   
HOWARD H. ELEY, DEPUTY GOVERNOR &  
COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

MARION COUNTY LENGTH 0.07 MILES  
MONTGOMERY COUNTY LENGTH 0.03 MILES  
SHELBY COUNTY LENGTH 0.62 MILES  
PROJECT LENGTH 0.72 MILES

TDOT PROJECT MANAGER: CAM MORRIS, PE  
DESIGNER : JASON RASHID CHECKED BY STUART SAMBERG, PE  
P.E. NO. 99BVAR-F3-024  
PIN NO. 131998.01



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PS&E ROADWAY INDEX

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STANDARD ROADWAY AND TRAFFIC OPERATIONS DRAWINGS

DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION
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STANDARD ROADWAY DRAWINGS

10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND COSTRUCTION

10-107.00 SAFETY DESIGN AND GUARDRAILS

S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-GR31-1	06-15-21	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR
S-GRC-4	01-30-25	GUARDRAIL CONNECTION
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-6A	06-28-19	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN

10-109.00 EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

STANDARD TRAFFIC OPERATIONS DRAWINGS

SIGNS

T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN

T-S-13	10-21-19	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	10-21-19	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-23C	07-02-15	BREAKAWAY POST SIGN SUPPORTS

SIGNALS

T-SG-6	10-21-19	PEDESTRIAN SIGNAL DETAILS
T-SG-10	09-12-23	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS

LIGHTING AND UTILITY POLES

T-FO-1		FIBER OPTIC AERIAL ENTRANCE DETAILS
T-FO-2		FIBER OPTIC UNDERGROUND ENTRANCE DETAILS
T-FO-3		FIBER OPTIC AERIAL CONNECTION DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS
T-L-3	07-15-24	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	07-15-24	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

WORK ZONES

T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-04-21	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12		ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIEDED HIGHWAY
T-WZ-15	05-01-20	INTERIOR LANE CLOSURE FOR FREEWAYS
T-WZ-18	07-07-23	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-61	05-15-22	ROLLING ROADBLOCK DETAIL FOR DIVIDED HIGHWAYS
T-WZ-FAB1		FLASHING YELLOW ARROW BOARD
T-WZ-PBR1	12-09-22	INTERCONNECTED PORTABLE BARRIER RAIL
T-WZ-PBR2	02-28-20	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES

STANDARD STRUCTURES DRAWINGS

NEW STRUCTURES

STD-8-4	02/26/25	SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	1A
PS&E	2025	99BVAR-F3-024	1A

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS  
AND  
STANDARD DRAWINGS



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ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 99BVAR-F3-024
(1)	105-01 CONSTRUCTION STAKES, LINE AND GRADES	LS	1
(2)	201-01 CLEARING AND GRUBBING	LS	1
(2)	203-07 FURNISHING AND SPREADING TOPSOIL	C.Y.	7
(2)	209-05 SEDIMENT REMOVAL	C.Y.	70
(2)	209-08.02 TEMPORARY SILT FENCE (WITH BACKING)	L.F.	700
(2)	209-09.01 SANDBAGS	BAG	54
(2)	209-20.03 POLYETHYLENE SHEETING (6 MIL MINIMUM)	S.Y.	545
	705-04.03 GUARDRAIL TERMINAL (TYPE 13)	EACH	5
	705-04.09 EARTH PAD FOR TYPE 38 GR END TREATMENT	EA	7
	705-06.01 W BEAM GR (TYPE 2) MASH TL-3	L.F.	2062.5
	705-06.20 TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	7
	705-06.25 THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	1
	707-08.11 HIGH VISIBILITY CONSTRUCTION FENCE	L.F.	700
(3)	712-01 TRAFFIC CONTROL	LS	1
(3, 4)	712-02.02 INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	3370
(3)	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	300
(3, 5)	712-06 SIGNS (CONSTRUCTION)	S.F.	1520
(3)	712-02.60 TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EA	7
(3)	712-04.50 BARRIER RAIL DELINEATOR	EA	175
(3)	712-08.03 ARROW BOARD (TYPE C)	EACH	7
(3)	712-08.12 QUEUE PROTECTION TRUCK	DAY	15
(3, 19)	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	10
	717-01 MOBILIZATION	LS	1
(6, 17)	725-15.82 3IN CONDUIT	L.F.	2600
(6, 17)	725-15.84 3IN CONDUIT BORED	L.F.	1245
(6)	725-20.02 CCTV POLE & FOUNDATION (80 FT POLE W/ LWRNG DEVICE)	EACH	4
(6)	725-20.09 MAINTENANCE WORK PAD (CONCRETE PAD)	EACH	4
(6, 7)	725-20.22 STEEL OVERHEAD SIGN STRUCTURE (SPANS 51FT TO 70FT)	EACH	1
(6, 7)	725-20.22 STEEL OVERHEAD SIGN STRUCTURE (SPANS 71FT TO 90FT)	EACH	1
(6, 7)	725-20.31 STEEL SIGN STRUCTURE (MULTI-COLOR DMS)	EACH	1
(6, 8)	725-20.43 PULL BOX (TYPE C)	EACH	25
(6, 8)	725-20.44 PULL BOX (TYPE D)	EACH	8
(6, 8)	725-20.45 PULL BOX (TYPE E)	EACH	2
(6)	725-20.55 CABLE (1/C #6 AWG.)	L.F.	3300
(6)	725-20.56 CABLE (1/C #4 AWG.)	L.F.	2250
(6)	725-20.58 CABLE (1/C #1/0 AWG.)	L.F.	12015
(6, 9-15)	725-20.71 ELECTRICAL CONNECTION	LS	1
(6)	725-20.91 CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH	5
(6)	725-20.92 CCTV CAMERA SYSTEM (STATIC)	EACH	2
(6)	725-21.02 DYNAMIC MESSAGE SIGN (MULTI-COLOR)	EACH	3
(6, 21)	725-21.11 NETWORK SWITCH (TYPE A)	EACH	7
(6)	725-21.18 DMS COMM CABLE	L.F.	285
(6)	725-21.19 DMS POWER CABLE	L.F.	285
(6, 10-11, 16)	725-21.43 DEMARCATION SITE (OVERHEAD POWER)	EACH	5
(6)	725-21.85 UNINTERRUPTIBLE POWER SUPPLY	EACH	7
(6)	725-21.86 ENVIRONMENTAL SENSOR	EACH	3
(6)	725-21.87 ENVIRONMENTAL SENSOR COMM CABLE	L.F.	450
(6)	725-21.91 RADAR DETECTION SYSTEM	EACH	3
(6)	725-21.96 RDS COMM CABLE	L.F.	75
(6, 17)	725-22.24 CONDUIT BANK (TYPE 4)	L.F.	120
(6, 17)	725-22.50 DMS CONDUIT BANK	L.F.	225
(6, 17)	725-22.71 2IN CONDUIT	L.F.	780
(6, 17)	725-22.72 2IN CONDUIT BORED	L.F.	355
(6, 17)	725-22.74 2IN CONDUIT W/BANK	L.F.	115
(6)	725-23.01 ITS CABLE MARKER	EACH	400
(6)	725-23.21 FIBER OPTIC DROP CABLE (12F)	L.F.	170
(6)	725-23.26 FIBER OPTIC CLOSURE (12F)	EACH	2
(6,18)	725-23.28 FIBER OPTIC SPLICE FUSION	EACH	8
(6)	725-23.31 FIBER OPTIC DROP PANEL (12F)	EACH	7
(6)	725-24.02 CABINET (TYPE B)	EACH	4
(6)	725-24.03 CABINET (TYPE C)	EACH	3

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 99BVAR-F3-024
(6)	725-24.21 PREVENTIVE MAINTENANCE FOR SYSTEM	LS	1
(6)	725-24.25 UNSCHEDULED MAINTENANCE LABOR	HR	1
(6)	725-24.31 SPARE PARTS	LS	1
(6)	725-24.41 BURN-IN PERIOD	LS	1
(6)	725-24.52 SOFTWARE INTEGRATION	LS	1
(6)	725-24.53 SYSTEM CUTOVER	LS	1
(6)	725-24.55 AS-BUILT PLANS	LS	1
(6)	725-24.61 TRAINING	LS	1
(6, 22)	725-28.01 ROAD SIDE UNIT (RSU)	EACH	3
(20)	730-23.31 PEDESTAL POLE (TYPE B)	EACH	2
(2)	740-11.02 TEMPORARY SEDIMENT TUBE (12 INCH)	L.F.	270
(19)	801-01 SEEDING (WITH MULCH)	UNIT	16
(19)	801-01.02 CROWN VETCH MIXTURE (WITH MULCH)	UNIT	4
(19)	801.03 WATER (SEEDING AND SODDING)	M.G.	1.4

FOOTNOTES	
(1)	ITEM INCLUDES ALL REQUIRED CLEARING, GRUBBING, REMOVAL, AND DISPOSAL OF ALL VEGETATION AND DEBRIS FOR PROPER CONDUIT, POLE, AND DEVICE OPERATION.
(2)	SEE TDOT STANDARDS FOR EROSION CONTROL, NOTES, AND STANDARDS. ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(3)	ALL REQUIRED TRAFFIC CONTROL DEVICES MUST MEET TDOT AND MUTCD STANDARDS.
(4)	ALL COSTS ASSOCIATED WITH INSTALLING, SHORING, AND RE-INSTALLING ALL BARRIER RAIL DEVICES DURING AND BETWEEN DIFFERENT TRAFFIC CONTROL PHASES WILL BE INCLUDED IN THE BID PRICE OF THIS ITEM. DURING THE TIME BETWEEN DIFFERENT TRAFFIC CONTROL PHASES, THE CONTRACTOR SHALL STORE ALL BARRIER RAIL DEVICES IN A PROPER LOCATION THAT WILL NOT INTERFERE WITH THE TRAFFIC FLOW AND CLEAR ZONES OF THE ROADWAY. ALL WORK MUST MEET THE FULL APPROVAL OF THE TDOT ENGINEERS. THE QUANTITIES SHOWN FOR THIS ITEM WILL BE INCLUDED IN THE CONTRACTOR'S BID UNDER ITEM 712-01. NO ADJUSTMENTS WILL BE MADE FOR OVERRUNS OF THIS ITEM.
(5)	RELOCATION OF SIGNS WILL BE PAID FOR UNDER 712-01.
(6)	SEE SPECIAL PROVISIONS 725 FOR DISCRPTION AND SPECIFICATIONS FOR THESE ITEMS.
(7)	ITEM INCLUDES SIGN STRUCTURE, FOUNDATION, CATWALK , AND ALL RELATED INCIDENTAL ITEMS, SEE SPECIAL PROVISIONS 725 FOR DISCRPTION AND SPECIFICATIONS FOR THESE ITEMS.
(8)	PAY ITEM SHALL INCLUDE GPS COORDINATE DATA FOR EACH PULL BOX INSTALLATION FOR INCLUSION IN THE AS-BUILT PLANS.
(9)	THIS PROJECT REQUIRED A TOTAL OF 5 ELECTRICAL UTILITY SERVICE CONNECTIONS. SEE 2BF FOR A LIST OF SERVICE PROVIDERS.
(10)	ITEM SHALL BE USED FOR COORDINATION WITH THE APPROPRIATE SERVICE PROVIDER AND SHALL INCLUDE ALL MATERIAL NEEDED TO PROVIDE ELECTRICAL DEMARCATION POINT. SEE 2BF FOR SERVICE PROVIDER DETAILS.
(11)	CONTRACTOR TO ABIDE WITH ALL TDOT SPECIFICATIONS AND APPROPRIATE SERVICE PROVIDER. SPECIFICATIONS. SEE 2D2 FOR SERVICE PROVIDER DETAILS.
(12)	INCLUDES LABOR AND ALL MISCELLANEOUS MATERIALS TO INSTALL AND HOOKUP COVENTIONAL TRANSFORMERS.
(13)	INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATIONS, INCLUDING, BUT NOT LIMITED TO, SETUP, TRAFFIC CONTROL, BEDDING, BACKFILL, SURFACE RESTORATION, DIGGING HOLES, BLASTING, BUTT WRAP OR SINGLE GROUND ROD, MGNV, AND NUMBERING POLE.
(14)	THIS PAY ITEM SHALL INCLUDE ALL COSTS INCURRED FROM SERVICE PROVIDER. THIS WILL INCLUDE COSTS FROM THE UTILITIES, SUCH AS: OVERHEAD PRIMARY AND PADMOUNT TRANSFORMER SETTING. THIS WILL NOT INCLUDE FEES FROM THE STATE ELECTRICAL INSPECTOR. SEE 2BF FOR SERVICE PROVIDER DETAILS.
(15)	INCLUDES SAGGING AND TYING IN OF OVERHEAD PRIMARY CONDUCTORS. ALSO INCLUDES LINEGUARDS WITH TIES AND/OR PREFORMED TIES.
(16)	ITEM INCLUDES ALL MATERIAL NEEDED FOR SUPPLYING ELECTRICAL SERVICES TO ITS EQUIPMENT. ITEMS INCLUDE, BUT ARE NOT LIMITED TO, WOOD POLE, UNISTRUT SUPPORT RACK, CONDUIT RISER WITH WEATHER HEAD, METER BOX (WHERE REQUIRED), AND MAIN DISCONNECT BOX.
(17)	ROCKS WILL BE CONSIDERED INCIDENTAL TO ALL TRENCHING AND BORING RELATED ITEMS. NO SEPARATE PAY ITEMS OR ROCK ADDED PAY ITEMS WILL BE APPLIED WHERE ROCK IS ENCOUTED.
(18)	REEL-TO-REEL SPLICE ANTICIPATED AT 2 LOCATIONS THROUGHOUT THE PROJECT
(19)	ITEM SHALL ONLY BE USED AT LOCATIONS APPROVED BY THE ENGINEER.
(20)	ITEM SHALL ONLY BE USED AT LOCATIONS WITH STATIC CCTV CAMERA.
(21)	TYPE A NETWORK SWTICHES SHALL BE USED AS A WIRELESS ROUTER FOR COMMUNICATION WITH REGIONAL TMCS AS NEEDED TO MAINTAIN DEVICE CONNECTIVITY.
(22)	RSU SHALL BE COLOCATED WITH DMS STRUCTURES AS SHOWN ON PROJECT PLANS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2
PS&E	2025	99BVAR-F3-024	2

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4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS  
QUANTITIES



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PROPOSED ITS QUANTITIES PER SHEET												
		Region	2	3	3	4	4	4	4	4		
		Site	1	2	2	3	3	3	3	3		
PAY ITEM	DESCRIPTION	Unit/ Sheet No.	5	6	7	8	9	10	11	12	All Sheets Total	
105-01	CONSTRUCTION STAKES, LINE AND GRADES	LS									1	
201-01	CLEARING AND GRUBBING	LS									1	
203-07	FURNISHING AND SPREADING TOPSOIL	C.Y.	2	1	1	1			1	1	7	
209-05	SEDIMENT REMOVAL	C.Y.	20	10	10	10			10	10	70	
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.				200	200	300			700	
209-09.01	SANDBAGS	BAG	18	6	6	6			12	6	54	
209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	S.Y.	203	89	25	25			178	25	545	
705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	1	1	1				1	1	5	
705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EA.	3	1	1				2		7	
705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.	625	312.5	237.5				800	87.5	2062.5	
705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	3	1	1				2		7	
725-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH								1	1	
707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	L.F.				200	200	300			700	
712-01	TRAFFIC CONTROL	LS									1	
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.									3370	
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH									300	
712-06	SIGNS (CONSTRUCTION)	S.F.									1520	
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EA.									7	
712-04.50	BARRIER RAIL DELINEATOR	EA.									175	
712-08.03	ARROW BOARD (TYPE C)	EACH									7	
712-08.12	QUEUE PROTECTION TRUCK	DAY									15	
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH									10	
717-01	MOBILIZATION	LS									1	
725-15.82	3IN CONDUIT	L.F.				660	970	565	405		2600	
725-15.84	3IN CONDUIT BORED	L.F.				105	395	745			1245	
725-20.02	CCTV POLE & FOUNDATION (80 FT POLE W/ LWRNG DEVICE)	EACH	1		1	1				1	4	
725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH	1		1	1				1	4	
725-23.22	STEEL OVERHEAD SIGN STRUCTURE (SPANS 51 TO 70 FEET)	EACH				1			1		1	
725-20.23	STEEL OVERHEAD SIGN STRUCTURE (SPANS 71 TO 90 FEET)	EACH	1								1	
725-20.31	STEEL SIGN STRUCTURE (MULTI-COLOR DMS)	EACH		1							1	
725-20.43	PULL BOX (TYPE C)	EACH	6	3	2	3	2	3	2	4	25	
725-20.44	PULL BOX (TYPE D)	EACH	1	2	1	1			2	1	8	
725-20.45	PULL BOX (TYPE E)	EACH	2								2	
725-20.55	CABLE (1/C #6 AWG.)	L.F.	1230	180	615	375				900	3300	
725-20.56	CABLE (1/C #4 AWG.)	L.F.	2250								2250	
725-20.58	CABLE (1/C #1/0 AWG.)	L.F.				2445	4215	4110	1245		12015	
725-20.71	ELECTRICAL CONNECTION*	LS									1	
725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH	1		1	1				2	5	
725-20.92	CCTV CAMERA SYSTEM (STATIC)	EACH		1					1		2	
725-21.02	DYNAMIC MESSAGE SIGN (MULTI-COLOR)	EACH	1	1					1		3	
725-21.11	NETWORK SWITCH (TYPE A)	EACH	2	1	1	1			1	1	7	
725-21.18	DMS COMM CABLE	L.F.	95	95					95		285	
725-21.19	DMS POWER CABLE	L.F.	95	95					95		285	
725-21.43	DEMARCATATION SITE (OVERHEAD POWER)	EACH	1	1	1	1				1	5	
725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH	2	1	1	1			1	1	7	
725-21.86	ENVIRONMENTAL SENSOR	EACH	1		1					1	3	
725-21.87	ENVIRONMENTAL SENSOR COMM CABLE	L.F.	150		150					150	450	
725-21.91	RADAR DETECTION SISTEM	EACH	1	1					1		3	
725-21.96	RDS COMM CABLE	L.F.	25	25					25		75	
725-22.24	CONDUIT BANK (TYPE 4)	L.F.	120								120	
725-22.50	DMS CONDUIT BANK	L.F.	75	75					75		225	
725-22.71	2IN CONDUIT	L.F.	445	40	185					110	780	
725-22.72	2IN CONDUIT BORED	L.F.	120			105				130	355	
725-22.74	2IN CONDUIT W/BANK	L.F.	115								115	
725-23.01	ITS CABLE MARKER	EACH									400	
725-23.21	FIBER OPTIC DROP CABLE (12F)	L.F.	170								170	
725-23.26	FIBER OPTIC CLOSURE (12F)	EACH	2								2	
725-23.28	FIBER OPTIC SPLICE FUSION	EACH	8								8	
725-23.31	FIBER OPTIC DROP PANEL (12F)	EACH	2	1	1	1			1	1	7	
725-24.02	CABINET (TYPE B)	EACH	1		1	1				1	4	
725-24.03	CABINET (TYPE C)	EACH	1	1					1		3	
725-24.21	PREVENTIVE MAINTENANCE FOR SYSTEM	LS									1	
725-24.25	UNSCHEDULED MAINTENANCE LABOR	HR									1	
725-24.31	SPARE PARTS	LS									1	
725-24.41	BURN-IN PERIOD	LS									1	
725-24.52	SOFTWARE INTEGRATION	LS									1	
725-24.53	SYSTEM CUTOVER	LS									1	
725-24.55	AS-BUILT PLANS	LS									1	
725-24.61	TRAINING	LS									1	
725-28.01	ROAD SIDE UNIT (RSU)	EACH	1	1					1		3	
730-23.31	PEDESTAL POLE (TYPE B)	EACH		1					1		2	
740-11.02	TEMPORARY SEDIMENT TUBE (12 INCH)	L.F.	90	30	30	30			60	30	270	
801-01	SEEDING (WITH MULCH)	UNIT	2	2	2	2	2	2	2	2	16	
801-01.02	CROWN VETCH MIXTURE (WITH MULCH)	UNIT	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4	
801.03	WATER (SEEDING & SODDING)	M.G.	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	1.4	
*THIS PROJECT REQUIRES A TOTAL OF 5 ELECTRICAL UTILITY SERVICE CONNECTIONS. ITEM SHALL BE USED FOR COORDINATION WITH LOCAL UTILITIES AND SERVICE PROVIDERS, AND SHALL INCLUDE ALL MATERIAL NEEDED TO PROVIDE ELECTRICAL DEMARCATATION POINT.												

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PIH	2025	99BVAR-F3-024	2A
PS&E	2025	99BVAR-F3-024	2A

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS QUANTITIES  
(PER SHEET)







# SPECIAL NOTES

## MISCELLANEOUS

- (1)

ALL BASELINES SHOWN IN THE PLANS ARE FOR GRAPHICAL INFORMATION PURPOSES ONLY AND ARE NOT STAKE IN THE FIELD.
- (2)

LOCATIONS OF UTILITES SHOWN ON PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN FIELD BY CONTACTING INVOLVED UTILITY COMPANIES.
- (3)

THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE. ADJUSTMENTS MAY BECOME NECESSARY. VARIATIONS FROM PROPOSED LOCATIONS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION OR CONSTRUCTION.
- (4)

THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH OTHER CONTRACTORS IN THE WORK AREA. CONFLICTS WILL BE HANDLED AT THE DISCRETION OF THE ENGINEER.
- (5)

THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL EQUIPMENT PLACED AS PART OF THE CONTRACT PRIOR TO CONDITIONAL ACCEPTANCE.
- (6)

ALL REMOVED EQUIPMENT OR MATERIALS SHALLE BE DISPOSED OF BY THE CONTRACTOR. THE COST OF DISPOSAL SHALL BE INCLUDED IN THE COST OF THE OTHER ITEMS.
- (7)

ALL ITS WORK MUST BE PERFORMED BY A QUALIFIED ITS CONTRACTOR. SEE SP SECTION 1.1.5 FOR ITS CONTRACTOR AND SUBCONTRACTOR SPECIFICATIONS.
- (8)

ALL DEVICE LOCATIONS REPRESENT CENTER LOCATION FOR MOUNTING POLE UNLESS INDICATED OTHERWISE.
- (9)

CONTRACTOR SHALL NOT BE ALLOWD TO STOCKPILE CONSTRUCTION MATERIAL OR EQUIPMENT WITHIN CLEAR ZONE (40' FROM EDGE OF TRAVEL LANE) UNLESS SHIELDED BY BARRIER.
- (10)

ALL GUARDRAIL THAT IS REMOVED TEMPORARILY FOR THE INSTALLATION OF DEVICES SHALL BE REINSTALLED IMMEDIATELY OR THE AREA SHALL SBE PROTECTED BY BARRIER.

## STREAMS, WETLANDS & BUFFER ZONES

- (1)

THE STREAM CROSSINGS MUST BE AS CLOSE TO 90 DEGREES AND NO LESS THAN 45 DEGREES FROM THE CEINTERLINE OF THE STREAM.
- (2)

FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION.
- (3)

A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES.
- (4)

BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND MUST NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

## UTILITY RELOCATION

- (1)

STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.
- (6)

SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES

SHALL BE DONE DURING DRY CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.

- (7)

UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- (8)

IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFFSITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFFSITE AND ENTERING WATERS OF THE STATE/U.S.
- (9)

FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.
- (10)

IN REGARD TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- (11)

TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT RESPONSIBLE PARTY.
- (12)

FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- (13)

THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- (14)

THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT RESPONSIBLE PARTY BEFORE COMMENCING WORK.

## CONDUIT/TRENCHING

- (1)

WHEN/IF HAND DIGGING (OR OTHER CAREFUL TRENCHING METHOD) OF A NEW TRENCH IS REQUIRED DUE TO CONSTRAINTS IN THE FIELD, SUCH AS CROSSING UNDER PAVED DRAINAGE FLUMES OR AVOIDING EXISTING UTILITIES, SUCH EFFORTS SHALL BE CONDUCTED BY THE CONTRACTOR AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR HAND DIGGING OR REPAIR OF PAVEMENT DAMAGED BY THE CONTRACTOR.
- (2)

CONDUITS SHALL BE INSTALLED A MINIMUM OF FOUR (4) FEET BEHIND EXISTING AND PROPOSED GUARDRAIL POSTS. WHEN NO GUARDRAIL IS INSTALLED, CONDUITS SHALL BE INSTALLED A MINIMUM OF EIGHT (8) FEET CLEAR OF THE EDGE OF THE PAVED SHOULDER. HOWEVER, THERE MAY BE AREAS, AS IDENTIFIED IN THE ITS LAYOUT SHEETS VIA CONSTRUCTION NOTES, THAT WILL REQUIRED THESE OFFSETS TO BE VIOLATED. THESE INSTALLATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE CONSTRUCTION.
- (3)

CONDUITS SHALL BE INSTALLED ONE (1) FOOT INFRONT OF CONCRETE BARRIERS, SOUND WALLS, OR RETAINING WALLS UNDER THE SOULDER WHERE THE SHOULDER PAVEMENT IS AGAINST THE BARRIER WALLS.
- (4)

CONDUCTORS IN PULL BOXES AND EQUIPMENT ENCLOSURES SHALL BE NEARLY ARRANGED AND LACED WITH APPROVED CABLE TIES. IN ACCORDANCE WITH INDUSTRY STANDARDS AND AS NOTED ON THE PLANS.
- (5)

THE CONTRACTOR SHALL COIL ADDITIONAL CABLE IN THE BOTTOMS OF THE CABINETS AND WITHIN PULL BOXES AS SPECIFIED ON THE DETAIL SHEETS.

- (6)

CONDUIT AND PULL BOX LOCATIONS SHOWN ON THESE PLANS ARE DIAGRAMMATIC. ACTUAL ROUTING OR CONDUIT RUNS SHALL CONFORM TO FIELD CONDITIONS. HOWEVER, GUIDANCE HAS BEEN PROVIDED VIA CONSTRUCTION NOTES ON THE ITS LAYOUT SHEETS. THE CONTRACTOR SHALL MARK CONDUIT ROUTES FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
- (7)

THE CONTRACTOR SHALL INSTALL A DETECTOR METALIZED "BURIED CABLE" WARINGIN TAPE CONTINUOUSLY RUN ALONG THE TRENCH TWELVE (12) INCHES ABOVE THE CONDUIT. THE COST OF THE TAPE IS TO BE INCLUDED IN OTHER CONDUIT-RELATED ITEM NUMBERS AND WILL NOT BE PAID SEPERATELY.
- (8)

MULTIPLE RUNS OF CONDUIT/INNERDUCT SHALL BE PLACED IN THE SAME TRENCH AS SHOWN ON THE DETAIL SHEETS.
- (9)

CONDUITS PROVIDING ELECTRICAL SERVICE CONDUCTORS SHALL CONFORM TO THE REQUIREMENTS OF THE LATESET EDITIONS OF THE "NATIONAL ELECTRIC CODE", THE "NATIONAL ELECTRIC SAFETY CODE", LOCAL BUILDING CODES, AND TO THE REQUIREMENTS OF TDOT AND ALL UTILITIES INVOLVED.
- (10)

ALL CONDUIT ROUTES UNDERNEATH ASPHALT AND/OR CONCRETE ROADWAYS SHALL BE BORED, DIRECTIONALLY DRILLED, OR VIA OTHER METHODS NOT REQUIRING OPEN TRENCHING. NO OPEN TRENCHING WILL BE ALLOWED IN ASPHALT OR CONCRETE UNLESS SPECIFICALLY STATED AS SO ON THE PLANS. BORES / DIRECTIONAL DRILLS SHOULD BE AS CLOSE AS PRACTICAL TO PERPENDICULAR TO THE ROADWAY CENTERLINE.
- (11)

WHEN/IF REMOVAL AND REPLACEMENT OF FENCING IS NECESSARY FOR TRENCHING OR BORING OPERATIONS, SUCH EFFORTS SHALL BE CONDUCTED BY THE CONTRACTOR AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENTS OR PAYMENT SHALL BE MADE.
- (12)

FOR INSTANCES WHEN THE CONDUIT BANK MUST CROSS UNDERNEATH EXISTING GUARDRAIL PRIOR TO CONSTRUCTION IN AN ASPHALT OR CONCRETE SHOULDER, THE TRENCH BACK FILL MATERIAL SHALL CONSIST ENTIRELY OF FLOWABLE FILL AS IT CROSSES UNDERNEATH THE GUARDRAIL.
- (13)

PROPOSED CONDUIT SHALL BE INSTALLED OVER EXISTING STRUCTURE OR ATTACHED TO EXISTING BRIDGES. NO TRENCHING OR PROPOSED CONDUIT SHALL CROSS ANY PROPOSED DRAINAGE FEATURES OR WETLAND AREAS. IF CONTRACTOR OR TDOT ISNEPCT IS UNSURE WHETHER DRAINAGE FEATURES ARE STREAMS OR WETLANDS, CONTRACTOR OR INSPECTOR SHALL CONTACT TDOT ENVIRONMENTAL DIVISION. PERMITS SECTION TO OBTAIN APPROPRIATE PERMITS.

## ITS

- (1)

PRIOR TO ANY WORK RESULTING IN LOSS OF COMMUNICATION TO ANY EXISTING FIEL DEVICES, THE CONTRACTOR SHALL CONTACT TDOT REGION 3 TMC FOR APPROVAL. AT A MINIMUM, ALL EXISTING FIELD DEVICES SHALL BE ONLINE AND OPERATIONAL DURING THE HOURS OF 6-9 AM AND 3-7 PM.
- (2)

IF EXISTING ITS OR SIGNAL EQUIPMENT IS DAMAGED DURING WORK ACTIVITIES AS A RESULT OF ANY ACTIONS RELATED TO INSTALLATION OF PROPOSED ITS OR SIGNAL EQUIPMENTS, THESE ITEMS WILL BE REPAIRED AT THE COTNRACTOR'S EXPENSE. THIS INCLUDES BUT IS NOT LIMITED TO FIBER OPTIC CABLE, CABINET EQUIPMENT, AND EDGE DEVICES

## GRADING

- (1)

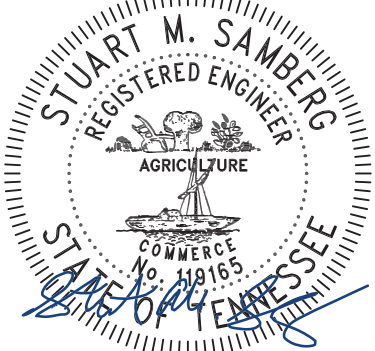
BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.
- (2)

TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.
- (3)

THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE. SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

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PIH	2025	99BVAR-F3-024	2BA
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SPECIAL  
NOTES



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# SPECIAL NOTES (CONTINUED)

## ENVIRONMENTAL

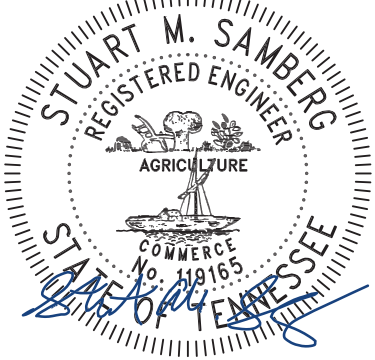
- (1) STAFF FROM TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

## ECOLOGY

- (1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIES.
- (2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED BRIDGE WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS WHICH MUST BE FOLLOWED.
- (3) ALL PROJECTS WITH THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

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PIH	2025	99BVAR-F3-024	2BB
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# ENVIROMENTAL

## NATURAL RESOURCES

- (1)

SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- (2)

NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
- (3)

INSTREAM EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) DEVICES ARE NOT APPROVED, UNLESS SPECIFIED IN WRITING BY THE ENVIRONMENTAL DIVISION.
- (4)

THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, SHALL NOT BE ALLOWED.
- (5)

THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- (6)

STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- (7)

HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- (8)

WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- (9)

THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

## SPECIES

- (1)

NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.
- (2)

SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

- (3)

IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

## PERMITS, PLANS & RECORDS

- (1)

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (2)

ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
- (3)

IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- (4)

THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.
- (5)

ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

## SUPPORT ACTIVITIES

- (1)

MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

# EROSION PREVENTIONS AND SEDIMENT CONTROL

## DISTURBED AREA

- (1)

IF DISTURBED ACREAGE IS EQUAL TO ONE ACRE OR MORE, PLEASE CONTACT TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION AS SOON AS POSSIBLE BECAUSE AN NPDES PERMIT WILL BE REQUIRED.
- (2)

AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- (3)

UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES.
- (4)

PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 14 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS APPLIED.
- (5)

CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE
- CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- ## SEDIMENT CONTROL
- (1)

EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

(2)

TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.

(3)

THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(4)

OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(5)

THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(7)


TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.

(8)

THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(9)

OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- |      |      |               |           |
|------|------|---------------|-----------|
| TYPE | YEAR | PROJECT NO.   | SHEET NO. |
| PIH  | 2025 | 99BVAR-F3-024 | 2BC       |
| PS&E | 2025 | 99BVAR-F3-024 | 2BC       |
|      |      |               |           |
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- SEALED BY



4/1/2025
- STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL  
NOTES



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EROSION PREVENTIONS AND SEDIMENT CONTROL (CONTINUED)

- (10) THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER’S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

INSPECTION, MAINTENANCE & REPAIR

- (1) THE TDOT CONSTRUCTION SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR’S RESPONSIBLE PARTY ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION SUPERVISOR OR THEIR DESIGNEE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- (2) TDOT CONSULTANTS AND CONTRACTOR STAFF RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDEC “LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES” COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. TDOT STAFF AND SUPERVISORS RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDOT “FUNDAMENTALS OF EROSION AND SEDIMENT CONTROL” CLASS AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION.
- (3) EPSC CONTROLS SHALL BE INSPECTED ACCORDING TO PERMIT REQUIREMENTS TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT.
- (4) DISCHARGE POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE ROADWAY SEDIMENT TRACKING.
- (5) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24 HOUR TIMEFRAME, WRITTEN DOCUMENTATION SHALL BE PROVIDED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.
- (6) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES SHALL BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR’S OWN EXPENSE.
- (7) THE EPSC PLAN SHALL BE UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY

MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

- (8) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT SHALL BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

EROSION PREVENTION

- (1) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.
- (2) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- (3) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR’S PLAN FOR THE STAGING OF OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE TDOT RESPONSIBLE PARTY. THE CONTRACTOR’S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN.
- (4) TEMPORARY STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION MEASURES IN DISTURBED AREAS SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY PHASE OF CONSTRUCTION.
- (5) STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT.
- (6) PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.
- (7) TEMPORARY OR PERMANENT STABILIZATION MUST BE FREE OF FINES (SILT AND CLAY SIZED PARTICLES). UNPACKED GRAVEL CONTAINING FINES OR CRUSHER-RUN WILL NOT BE CONSIDERED SUFFICIENT STABILIZATION.
- (8) DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED.

PERMITS, PLANS & RECORDS

- (1) THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER A CHANGE IN THE DESIGN OR CONSTRUCTION OF THE PROJECT OCCURS. THE STAGES DEPICTED IN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL PHASES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS PHASES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE PHASES OF CONSTRUCTION THAT WILL OCCUR; THUS THESE DOCUMENTS WILL HAVE TO BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (1) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- (2) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT

REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.

- (3) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.
- (4) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (5) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- (6) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS. THE CONTRACTOR’S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (7) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER’S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (8) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER’S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (9) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR’S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (10) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (11) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.
- (12) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

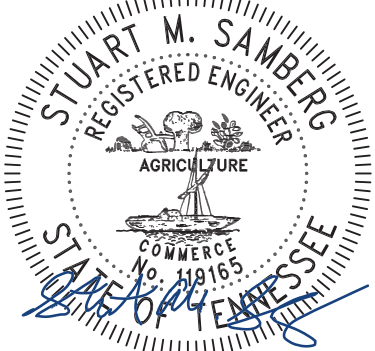
- (1) IF OFFSITE BORROW AND WASTE AREAS BECOME NECESSARY DURING THE LIFE OF THE PROJECT, THIS SUPPORT ACTIVITY SHALL BE ADDRESSED PER THE TDOT WASTE AND BORROW MANUAL.
- (2) MATERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN.
- (3) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY EPSC PLANS FOR THE MATERIAL AND STAGING AREAS TO THE ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW.

SUPPORT ACTIVITIES

- (1) IF OFFSITE BORROW AND WASTE AREAS BECOME NECESSARY DURING THE LIFE OF THE PROJECT, THIS SUPPORT ACTIVITY SHALL BE ADDRESSED PER THE TDOT WASTE AND BORROW MANUAL.
- (2) MATERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN.
- (3) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY EPSC PLANS FOR THE MATERIAL AND STAGING AREAS TO THE ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2BD
PS&E	2025	99BVAR-F3-024	2BD

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL  
NOTES



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# EROSION PREVENTIONS AND SEDIMENT CONTROL (CONTINUED)

## SPILL PREVENTION, MANAGEMENT & NOTIFICATION

- (1) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE AND SPILLS.
- (2) FOR ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER’S RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- (3) APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ONSITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.
- (4) ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- (5) THE CONTRACTOR’S RESPONSIBLE PARTY SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
- (6) IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR SHALL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
- (7) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- (8) IF A SPILL OCCURS THE CONTRACTOR’S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- (9) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, SEE THE LATEST TENNESSEE GENERAL PERMIT NO. TNR100000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SECTION 5.1 FOR REPORTING REQUIREMENTS.
- (10) CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO STORING 1320 GALLONS ON SITE.

# SCOPE OF WORK

THIS PROJECT IS FOR THE CONSTRUCTION, INSTALLATION, TESTING AND INTEGRATION OF TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STATEWIDE REGIONAL SMARTWAY INTELLIGENT TRANSPORTATION SYSTEM (ITS) INFRASTRUCTURE. THIS PROJECT WILL LOOK TO INSTALL ITS DEVICES AT (3) RURAL LOCATIONS TO ASSIST THE ASSOCIATED REGIONAL TRAFFIC MANAGEMENT CENTER (TMC) WITH ROADWAY MONITORING AND INCIDENT MANAGEMENT. THE PROJECT WILL INCLUDE THE FOLLOWING: INSTALLATION OF SEVEN (7) CCTV CAMERAS, THREE (3) RADAR DETECTION SYSTEMS (RDS), THREE (3) ENVIRONMENTAL SENSOR STATIONS (ESS), THREE (3) MULTI-COLOR DMS SIGNS AND SIGNS STRUCTURES, AND ALL APPURTENANCES NECESSARY FOR FULL OPERATION OF THE ITS DEVICES. THIS PROJECT WILL INCLUDE, BUT NOT BE LIMITED TO, THE INSTALLATION OF STRUCTURES, CABINETS, FOUNDATIONS, CONDUIT, ELECTRONIC EQUIPMENT, ELECTRICAL POWER SERVICE, AND COMMUNICATIONS. COMMUNICATION TO/FROM ALL FIELD DEVICES WILL BE ACCOMPLISHED BY THE TDOT-WIRELESS COMMUNICATION NETWORK TO THE DESIGNATED REGIONAL TMC. THE PROJECT WILL ALSO INCLUDE THE COMPLETE CONSTRUCTION AND TESTING OF THE ITS COMMUNICATIONS DEVICES, BOTH ACTIVE AND PASSIVE, EITHER WIRED OR WIRELESS AS SHOWN ON THE PLANS TO CONNECT THE ROADSIDE ITS DEVICES TO CABINETS AND CABINETS TO THE TDOT-MAINTAINED COMMUNICATIONS NETWORK AND ELECTRICAL POWER SERVICES. THE USE OF NATIONAL TRANSPORTATION COMMUNICATIONS FOR ITS PROTOCOLS (NTCIP) SHALL BE REQUIRED FOR CERTAIN DEVICES AS SHOWN IN THE SPECIAL PROVISIONS (SP) 725.

TESTING WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

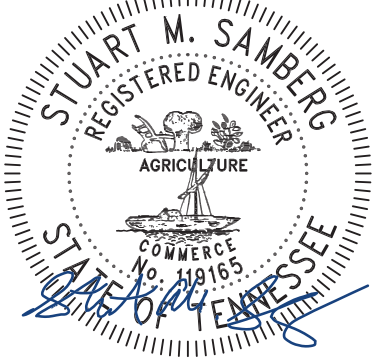
1. STAND-ALONG TESTING FOR ALL TDOT-MAINTAINED FIBER COMMUNICATIONS, WIRELESS COMMUNICATION SERVICES, DMS, CCTV, ESS, AND RDS;
2. INITIAL APPLICATIONS SOFTWARE TESTING AND SYSTEM TESTING TO DEMONSTRATE ITS DEVICES CONTROL AND FUNCTIONALITY THROUGH FIELD COMMUNICATIONS CONCENTRATION EQUIPMENT; AND
3. FULL SYSTEM OPERATION TESTING. ALL EQUIPMENT INSTALLED BY THE CONTRACTOR WILL BE REQUIRED TO INTERFACE WITH TDOT’S CENTRAL SYSTEM SOFTWARE CURRENTLY OPERATIONAL IN THE DESIGNATED REGIONAL TMC.

ALL EQUIPMENT PROVIDED SHALL COMPLY WITH APPLICABLE INDUSTRY-APPROVED STANDARDS FOR SUBSYSTEMS AND COMMUNICATIONS NETWORKS. USE OF APPROVED INDUSTRY STANDARDS AND NATIONAL TRANSPORTATION COMMUNICATIONS FOR ITS PROTOCOLS (NTCIP) SHALL BE REQUIRED FOR DMS, CCTV, AND RDS DEVICES.

ALL HARDWARE, FIRMWARE, AND SOFTWARE NECESSARY TO CONTROL, CONVERT, FORMAT, DISPLAY, NETWORK, AND DISTRIBUTE DIGITAL VIDEO AND OTHER DATA SIGNALS SHALL BE PROVIDED UNDER THIS CONTRACT. ALL HARDWARE, FIRMWARE, AND SOFTWARE NECESSARY TO CONTROL, CONFIGURE, AND MONITOR ALL FIELD AND CONTROL CENTER DEVICES AND SYSTEMS SHALL BE PROVIDED UNDER THIS CONTRACT. THIS CONTRACT PROVIDES FOR A TOTAL "TURN-KEY" SOLUTION INCLUDING REQUIRED INTEGRATION EFFORTS. CENTRAL SOFTWARE MAY BE INSTALLED IN FUTURE BY OTHERS; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE COMPLETE SYSTEM IS FULLY FUNCTIONAL EVEN WITHOUT ANY CENTRAL SOFTWARE BEING INSTALLED. SEE THE SPECIAL PROVISIONS IN THE CONTRACT DOCUMENTS FOR MORE INFORMATION ON THE MATERIAL SPECIFICATIONS, TESTING, ETC.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2BE
PS&E	2025	99BVAR-F3-024	2BE

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL  
NOTES AND ITS  
SCOPE OF WORK



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UTILITY

- (1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER “THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT”, THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED ‘AROUND’ UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR’S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

ELECTRICAL SERVICES

- (1) SECONDARY CONDUCTORS WILL BELONG TO THE TENNESSEE DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL INSTALL THE SECONDARY CONDUCTORS ACCORDING TO THE PLANS AND SPECIFICATIONS AND HAVE IT INSPECTED BY THE STATE ELECTRICAL INSPECTOR. THE CONTRACTOR SHALL RUN THE UNDERGROUND SECONDARY CONDUCTORS TO THE TDOT DEMARCATION POLE OR UTILITY PROVIDERS POLE PER THE UTILITY COMPANY’S SPECIFICATIONS AND AS DETAILED IN THE PLANS.
- (2) CONTRACTOR TO CONTACT THE AFFECTED UTILITY COMPANY PRIOR TO ANY ELECTRIC WORK BEING DONE IN THE UTILITY COMPANY’S SERVICE AREA.
- (3) FOR OVERHEAD UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH AND INSTALL METER PAN, CONDUIT AND CONDUCTORS UP TO WEATHERHEAD. CONDUCTORS SHALL EXTEND A MINIMUM OF 5 FEET OUT OF WEATHERHEAD FOR UTILITY CONNECTION.

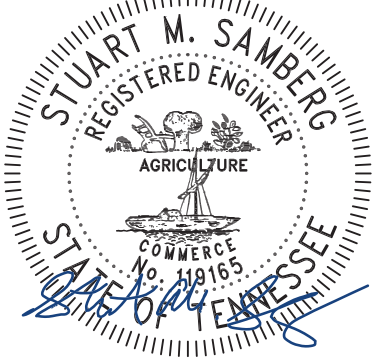
- (4) FOR UNDERGROUND SERVICE, THE CONTRACTOR SHALL INSTALL 2" SCHEDULE 80 PVC UP THE ELECTRIC POLE WITHIN 1 FOOT OF THE BOTTOM OF THE TRANSFORMER. THE CONTRACTOR SHALL ATTACH THE CONDUIT TO THE POLE WITH A MINIMUM OF 4-6" STANDOFFS, EQUALLY SPACED. CONDUCTORS SHALL EXTEND A MINIMUM 5 FEET OUT OF THE CONDUIT FOR UTILITY CONNECTIVITY.
- (5) THE LABOR AND MATERIAL REQUIRED TO INSTALL THE SERVICE IS THE RESPONSIBILITY OF THE CONTRACTOR.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2D2
PS&E	2025	99BVAR-F3-024	2BF

Rural Deployments Utility Owners											
Site Number	County	Route	Region	Power Company	Company Phone No.	Contact	Contact Phone No.	ADDRESS	CITY	STATE	ZIP CODE
1	Marion	I-24	2	EPB Chattanooga	(423) 648-1372	David Nordy	(423) 648-1451	10 West M.L King Blvd	Chattanooga	TN	37402
2	Montgomery	I-24	3	CDE Lightband	(931) 648-8151	Chris Williams	(931) 320-9697	2021 Wilma Rudolph Blvd	Clarksville	TN	37040
					(931) 905-7229	Clay Cannon	(615) 315-8775	2021 Wilma Rudolph Blvd	Clarksville	TN	37040
3	Shelby	SR-385	4	Memphis Light, Gas & Water Division	(901) 729-8630	Karyn Swilley	(901) 334-8947	245 S Main St	Memphis	TN	38103

Rural Deployments Demarcation Points						
Site	Demarcation Point	Utility Owner	Station	Offset	Proposed Voltage	Notes
1	R2J-00I24-166.3W	EPB Chattanooga	501+88	169.59' LT	120/240	Proposed
2	R3J-00I24-000.9E	CDE Lightband	341+11	184.37' RT	120/240	Proposed
2	R3J-00I24-001.5W	CDE Lightband	375+83	164.74' LT	120/240	Proposed
3	R4J-SR385-049.1E	Memphis Light, Gas & Water Division	102+50	255.66' RT	120/240	Proposed
3	R4J-SR385-047.9E	Memphis Light, Gas & Water Division	167+81	136.31' RT	120/240	Proposed

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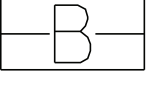
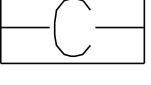
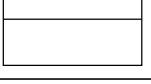
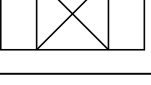
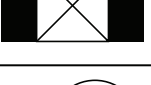


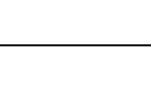
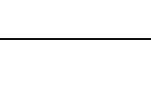
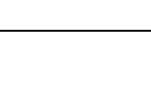
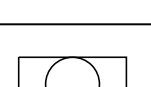






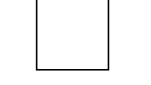




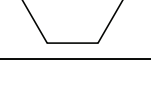





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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

UTILITY NOTES AND  
UTILITY OWNERS



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INTELLIGENT TRANSPORTATION SYSTEM (I.T.S.) LEGEND	
SYMBOL	ITEM
	PROPOSED CABINET, TYPE A
	PROPOSED CABINET, TYPE B
	PROPOSED CABINET, TYPE C
	EXISTING CABINET
	EXISTING FIELD JUNCTION CABINET
	PROPOSED FIELD JUNCTION CABINET
	EXISTING CLOSED-CIRCUIT TELEVISION (C.C.T.V.) CAMERA (ARROW DENOTES ORIENTATION OF PIPE ARM)
	PROPOSED CLOSED-CIRCUIT TELEVISION (C.C.T.V.) CAMERA (ARROW DENOTES ORIENTATION OF PIPE ARM)
	EXISTING COMMUNICATIONS CONDUIT
	EXISTING ELECTRICAL CONDUIT
	PROPOSED COMMUNICATIONS CONDUIT
	PROPOSED ELECTRICAL CONDUIT
	EXISTING ELECTRICAL DEMARICATION POINT
	PROPOSED ELECTRICAL DEMARICATION POINT
	EXISTING DYNAMIC MESSAGE SIGN (D.M.S.)
	PROPOSED DYNAMIC MESSAGE SIGN (D.M.S.)
	EXISTING HIGHWAY ADVISORY RADIO (H.A.R.)
	PROPOSED HIGHWAY ADVISORY RADIO (H.A.R.)
	EXISTING HIGHWAY ADVISORY RADIO (H.A.R.) SIGN
	EXISTING PULL BOX
	PROPOSED PULL BOX, TYPE C
	PROPOSED PULL BOX, TYPE D
	PROPOSED PULL BOX, TYPE E
	EXISTING PULL BOX TYPE LABEL (LETTER(S) DENOTE PULL BOX TYPE(S))
	PROPOSED PULL BOX TYPE LABEL (LETTER(S) DENOTE PULL BOX TYPE(S))
	EXISTING RADAR DETECTION SYSTEM (R.D.S.)
	PROPOSED RADAR DETECTION SYSTEM (R.D.S.)
	EXISTING UTILITY POLE
	PROPOSED ENVIRONMENTAL SENSOR STATION (ESS)

I.T.S. LEGEND NOTE

ALL DEVICE SYMBOLS ARE FOR GRAPHICALREPRESENTATION ONLY AND ARE NOT TO SCALE. CENTER OF DEVICE IS INDICATED ON PLANS BY STATION AND OFFSET.

ABBREVIATIONS

LIST OF ABBREVIATIONS

AQ.	AQUA
ASSY(S)	ASSEMBLY(IES)
A.W.G.	AMERICAN WIRE GAUGE
BK.*	BLACK
BL.*	BLUE
BR.*	BROWN
C.C.T.V.	CLOSED-CIRCUIT TELEVISION
COAX.	COAXIAL
COMM.	COMMUNICATIONS
DET.	DETECTOR
D.M.S.	DYNAMIC MESSAGE SIGN
D.O.T.	DEPARTMENT OF TRANSPORTATION
E.O.P.	END OF PROJECT
E.O.T.L.	EDGE OF TRAVEL LANE
F*	FIBER(S)
F.C.C.	FEDERAL COMMUNICATIONS COMMISSION
F.O.	FIBER OPTIC
G.M.	GROUND-MOUNTED
GR.*	GREEN
H.A.R.	HIGHWAY ADVISORY RADIO
H.D.P.E.	HIGH-DENSITY POLYETHYLENE
HEX.	HEXAGONAL
INFO.	INFORMATION
I.P.*	INTERNET PROTOCOL
I.T.S.	INTELLIGENT TRANSPORTATION SYSTEM
KVA	KILOVOLT-AMPERE
L.D.	LOWERING DEVICE
N.E.M.A.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N.T.S.	NOT TO SCALE
OR.	ORANGE
P.	POWER
P.B.*	PULL BOX
P.T.Z.	PAN, TILT AND ZOOM
RCV.	RECEIVE
RD.*	RED, ROAD
R.D.S.	RADAR DETECTION SYSTEM
R.G.S.	RIGID GALVANIZED STEEL
R.S.U.	ROADSIDE UNIT
REFL.	REFLECTIVE
SCH.*	SCHEDULE
SL.*	SLATE
S.M.	SINGLE MODE
S.P.	SPECIAL PROVISIONS
T.M.C.	TRANSPORTATION MANAGEMENT CENTER
U.L.*	UNITED LABORATORIES
V*	VOLTS
V.D.S.	VIDEO DETECTION SYSTEM
VI.	VIOLET
W*	WATTS
WH.	WHITE
YL.	YELLOW

DEVICE NAMING

R	1	A	-	0	0	I	7	5	-	0	0	0	.	0	E
REGION		DEVICE TYPE	-	LOCATION A (ROUTE)					-	LOCATION B (MILE & DIRECTION)					

DEVICE TYPE LEGEND

A	CCTV 1	
*B	CCTV 2	* (B) SHALL BE USED IF THERE IS MORE THAN ONE CCTV CAMERA AT THE SAME MILE.
E	DMS	
G	RDS	
J	DEM 1	** (K) SHALL BE USED IF THERE IS MORE THAN ONE DEMARICATION POINT AT THE SAME MILE.
**K	DEM 2	
Y	ESS	
X	RSU	

ABBREVIATIONS NOTES

- (1) REFER TO STANDARD DRAWING RD-A-1 FOR STANDARD ABBREVIATIONS.
- (2) ABBREVIATIONS MARKED WITH AN ASTERISK (\*) ARE USED FOR LISTED TERMS AND NOT TERMS FOR DUPLICATE ABBREVIATIONS LISTED ON STANDARD DRAWINGS RD-A-1.

CABLE/CONDUIT LABELS

EXAMPLE CABLE/CONDUIT LABEL

[LINE 1]	COMM. CONDUIT BANK TYPE 4 (290 L.F.)
[LINE 2]	1 - 2" CONDUIT W/ BANK (290 L.F.)
[LINE 3]	F.O. CABLE, 144 F (490 L.F.)
[LINE 4]	3 - #4 A.W.G. POWER (365 L.F.)

CABLE/CONDUIT LABEL DESCRIPTION

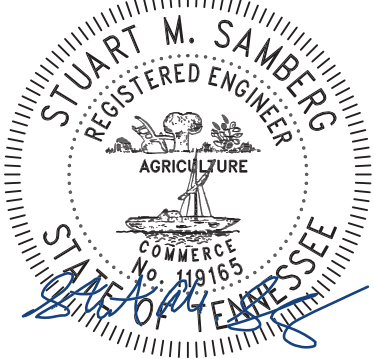
- [LINE 1] INDICATES TYPE 4 COMMUNICATIONS CONDUIT BANK TO CONTAIN FOUR (4) 1 1/4" HIGH-DENSITY POLYETHYLENE CONDUITS. LENGTH OF EACH CONDUIT IS 290 LINEAR FEET.
- [LINE 2] INDICATES ONE (1) 2" CONDUIT TO BE INSTALLED IN SAME TRENCH AS COMMUNICATIONS CONDUIT BANK. LENGTH OF CONDUIT IS 290 LINEAR FEET.
- [LINE 3] INDICATES FIBER OPTIC CABLE WITH 144 FIBERS TO BE INSTALLED IN COMMUNICATIONS CONDUIT. LENGTH OF FIBER OPTIC CABLE (INCLUDING COILS INSIDE PULL BOXES) IS 490 LINEAR FEET.
- [LINE 4] INDICATES THREE (3) #4 AMERICAN WIRE GAUGE POWER CABLES TO BE INSTALLED IN CONDUIT. LENGTH OF EACH POWER CABLE (INCLUDING COILS INSIDE PULL BOXES) IS 365 LINEAR FEET.

CABLE/CONDUIT LABEL NOTES

- (1) NEW CABLE/CONDUIT LABELS ARE LISTED ONLY WHEN TYPE OR COMBINATION OF CABLE/CONDUIT CHANGES OR WHEN CABLE/CONDUIT SPANS MULTIPLE SHEETS. IF TYPE DOES NOT CHANGE, A SINGLE LABEL MAY REFER TO CABLE/CONDUIT SPANNING MULTIPLE PULL BOXES AND DEVICES.
- (2) CABLE/CONDUIT LENGTHS ARE APPROXIMATE ONLY. PAYMENT BASED ON ACTUAL LENGTHS OF CABLE/CONDUIT INSTALLED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2C
PS&E	2025	99BVAR-F3-024	2C

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ITS  
LEGEND AND  
ABBREVIATIONS



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Closed Circuit Television (C.C.T.V.) Camera Mounting Table									
Device No.	Sheet No.	Roadway	Sta.	LT./RT.	Distance From EOTL (LF)	Pole Height (FT)	Camera Mounting Height. AGL (FT)	Lowering Devices (EA.)	Notes
CCTV Camera R2A-00I24-166.4W	5	I-24	508+42	LT.	25'	80'	80'	1	Site 1; With ESS R2Y-00I24-166.4W
CCTV Camera R3A-00I24-003.5E	6	I-24	341+35	RT.	30'	20'	20'	1	Site 2; With DMS R2E-00I40-000.9E, Static CCTV, Item 725-20.92
CCTV Camera R3A-00I24-003.5E	7	I-24	377+67	LT.	35'	80'	80'	1	Site 2; With ESS R3Y-00I24-001.5N
CCTV Camera R4A-SR385-049.1E	8	SR-385	103+32	RT.	45'	80'	80'	1	Site 3
CCTV Camera R4A-SR385-048.4E	11	SR-385	140+11	RT.	25'	20'	20'	1	Site 3; With DMS R4E-SR385-048.4E, Static CCTV, Item 725-20.92
CCTV Camera R4A-SR385-047.9E	12	SR-385	169+22	RT.	30'	80'	80'	1	Site 3; With CCTV R4B-0I155-000.8E and ESS R4Y-0I155-000.8E
CCTV Camera R4B-SR385-047.9E	12	SR-385	169+22	RT.	45'	80'	80'	1	Site 3; With CCTV R4A-0I155-000.8E and ESS R4Y-0I155-000.8E

Radar Detection System (R.D.S.) Mounting Table									
Device No.	Sheet No.	Roadway	Sta.	LT./RT.	Distance From EOTL (LF)	Direction	No. of Lanes Detected	Mounting Height Above Road (FT)	Notes
RDS R2G-00I24-166.3W	5	I-24	506+17	LT.	20'	WB	2	18'	Site 1; With DMS R2E-00I24-166.3W; Mounted to Sign Structure
RDS R3G-00I24-000.9E	6	I-24	342+12	RT.	20'	EB	2	18'	Site 2; With DMS R3E-00I24-000.9E; Mounted to Sign Structure
RDS R4G-SR385-048.4E	11	SR-385	140+86	RT.	20'	EB	2	18'	Site 3; With DMS R3E-SR385-048.4E; Mounted to Sign Structure

Environmental Sensor System (E.S.S.) Camera Mounting Table										
Device No.	Sheet No.	Roadway	Sta.	LT./RT.	Distance From EOTL (LF)	Mounting Height Above Road (FT)	Installation Angle from Horizontal	Lowering Devices (EA.)	Notes	
ESS R2Y-00I24-166.4W	5	I-24	508+42	LT.	25'	29'	40°	1	Site 1; With CCTV R2A-00I24-166.4W	
ESS R3Y-00I24-003.5E	7	I-24	377+67	LT.	35'	23'	30°	1	Site 2; With CCTV R3A-00I24-001.5N	
ESS R4Y-SR385-047.9E	12	SR-385	169+22	RT.	30'	23'	30°	1	Site 3; With CCTV R4A-0I155-000.8E and R4B-0I155-000.8E	

NETWORK SWITCH LOCATIONS W/ SUPPORTED EQUIPMENT										
SHEET NUMBER	SWTCH LOCATION	CHANNEL	SWITCH TYPE	ROADWAY	STATION	DMS	CCTV	ESS	RDS	RSU
5	SITE 1 DMS R2E-00I24-166.3W	X	CISCO IR1101	I-24	506+96	R2E-00I24-166.3W			R2G-00I24-166.3W	R2X-00I24-166.3W
5	SITE 1 CCTV CAMERA R2A-00I24-166.4W	X	CISCO IR1101	I-24	508+42		R2A-00I24-166.4W	R2Y-00I24-166.4W		
6	SITE 2 DMS R3E-00I24-000.9E	X	CISCO IR1101	I-24	341+35	R3E-00I24-000.9E	R3A-00I24-000.9E		R3G-00I24-000.9E	R3X-00I24-000.9E
7	SITE 2 CCTV CAMERA R3A-00I24-001.5E	X	CISCO IR1101	I-24	377+67		R3A-00I24-001.5W	R3Y-00I24-001.5W		
8	SITE 3 CCTV CAMERA R4A-SR385-049.1E	X	CISCO IR1101	SR-385	103+32		R4A-SR385-049.1E			
11	SITE 3 DMS R4E-SR385-048.4E	X	CISCO IR1101	SR-385	140+11	R4E-SR385-048.4E	R4A-SR385-048.4E		R4G-SR385-048.4E	R4X-SR385-048.4E
12	SITE 3 CCTV CAMERA R4A-SR385-047.9E AND R4B-SR385-047.9E	X	CISCO IR1101	SR-385	169+22		R4A-SR385-047.9E R4B-SR385-047.9E	R4Y-SR385-047.9E		

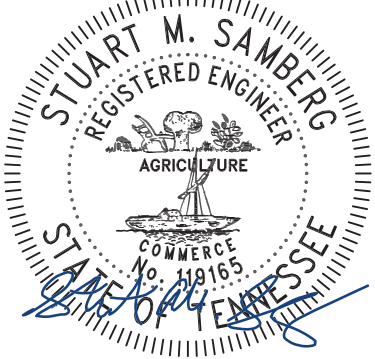
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2D
PS&E	2025	99BVAR-F3-024	2D

NOTES:

1. RADAR DETECTION SYSTEM MOUNTING HEIGHTS ARE BASED ON THE SMARTSENSOR HD STANDARD. IF A DIFFERENT DEVICE IS USED, THE CONTRACTOR SHALL ADJUST THESE PARAMETERS AS RECOMMENDED BY THE MANUFACTURER.

2. ENVIRONMENTAL SENSOR SYSTEM MOUNTING HEIGHTS AND INSTALLATION ANGLES ARE BASED ON THE ICESIGHT MODEL 5433-3X. IF A DIFFERENT DEVICE IS USED, THE CONTRACTOR SHALL ADJUST THESE PARAMETERS AS RECOMMENDED BY THE MANUFACTURER.

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DEVICE MOUNTING  
AND NETWORK SWITCH  
TABLES



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Proposed Guardrail																			
Run No.	Site	Location (Mile Marker)	Page	Device	Direction				Side		Station		Earth Pad for Type 38 Terminal (EA) 705-04.09	Type 38 Terminal (EA) 705-06.20	Guardrail (LF) 705-06.01	Number of 12.5' Guardrail Sections	Type 13 Terminal (Ea) 705-04.03	Thrie Beam (EA) 705-06.25	Remarks
					EB	WB	NB	SB	LT	RT	From	To							
1	1	166.3	5	Site 1 Demarcation		X			X		501+51.47	503+19.20	2	2	162.5	13			
2	1	166.3	5	Site 1 CCTV		X			X		505+98.62	510+61.12	1	1	462.5	37	1		
4	2	000.9	6	Site 2 DMS	X					X	339+16.19	342+28.69	1	1	312.5	25	1		
5	2	001.5	7	Site 2 CCTV		X				X	377+53.25	379+90.75	1	1	237.5	19	1		
6	3	048.4	11	Site 3 DMS	X				X		137+91.95	141+04.45	1	1	312.5	25	1		
7	3	048.4	11	Site 3 DMS	X					X	137+74.04	142+61.54	1	1	487.5	39			Tie into existing guardrail
8	3	047.9	12	Site 3 CCTV	X				X		168+59.14	169+46.65			87.5	7	1	1	

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2D1
PS&E	2025	99BVAR-F3-024	2D1

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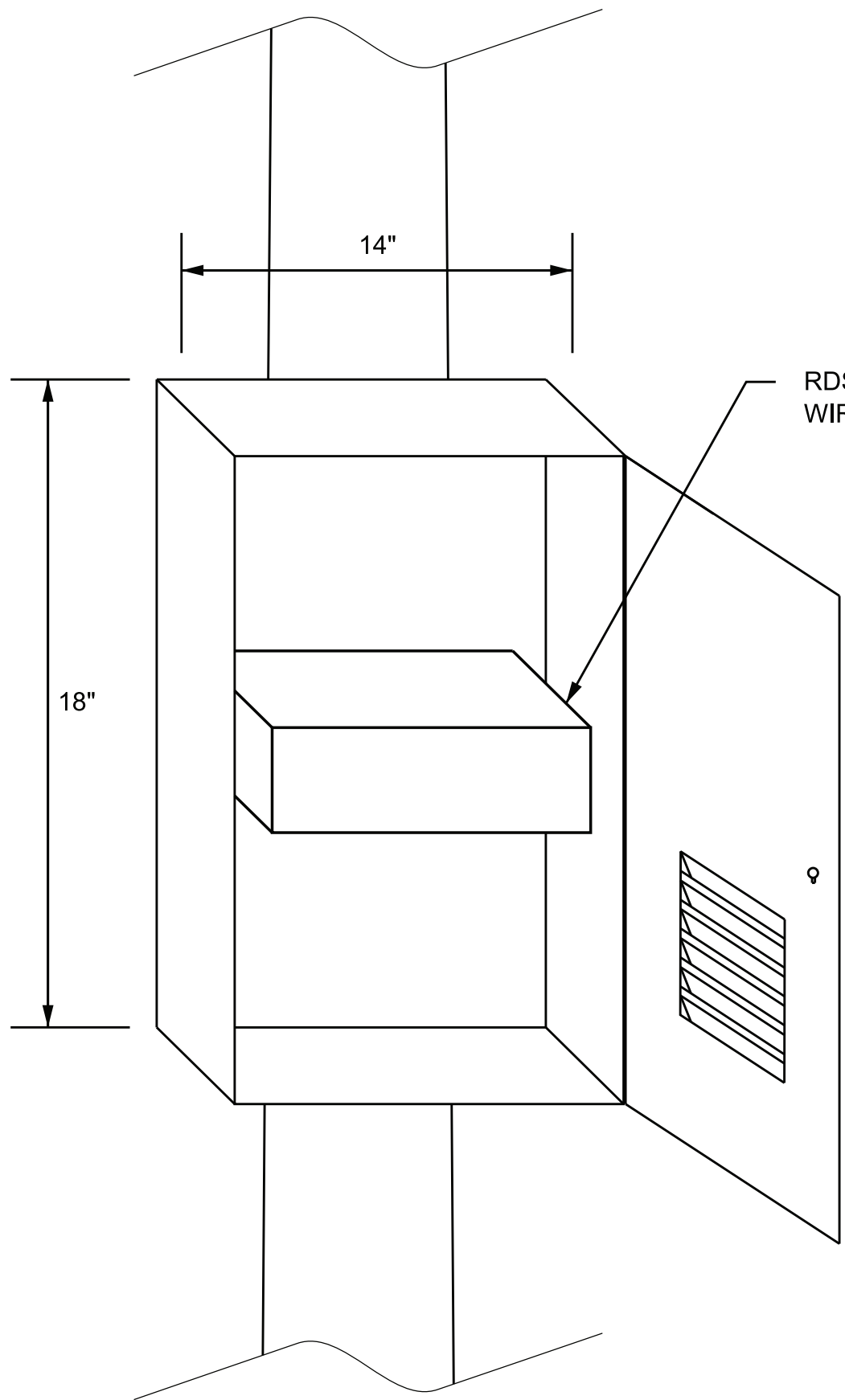
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS  
GUARDRAIL  
QUANTITIES



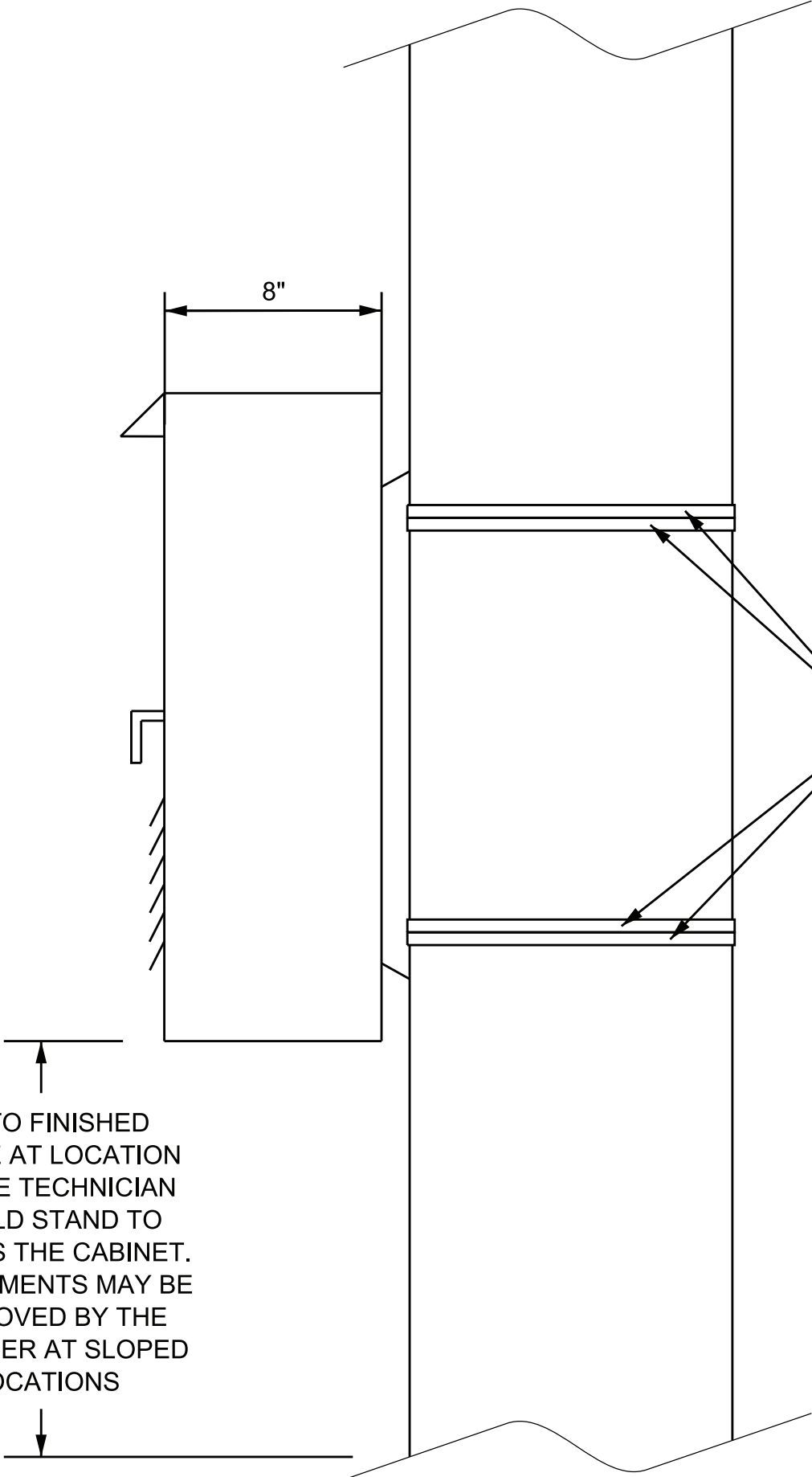
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F
PS&E	2025	99BVAR-F3-024	2F

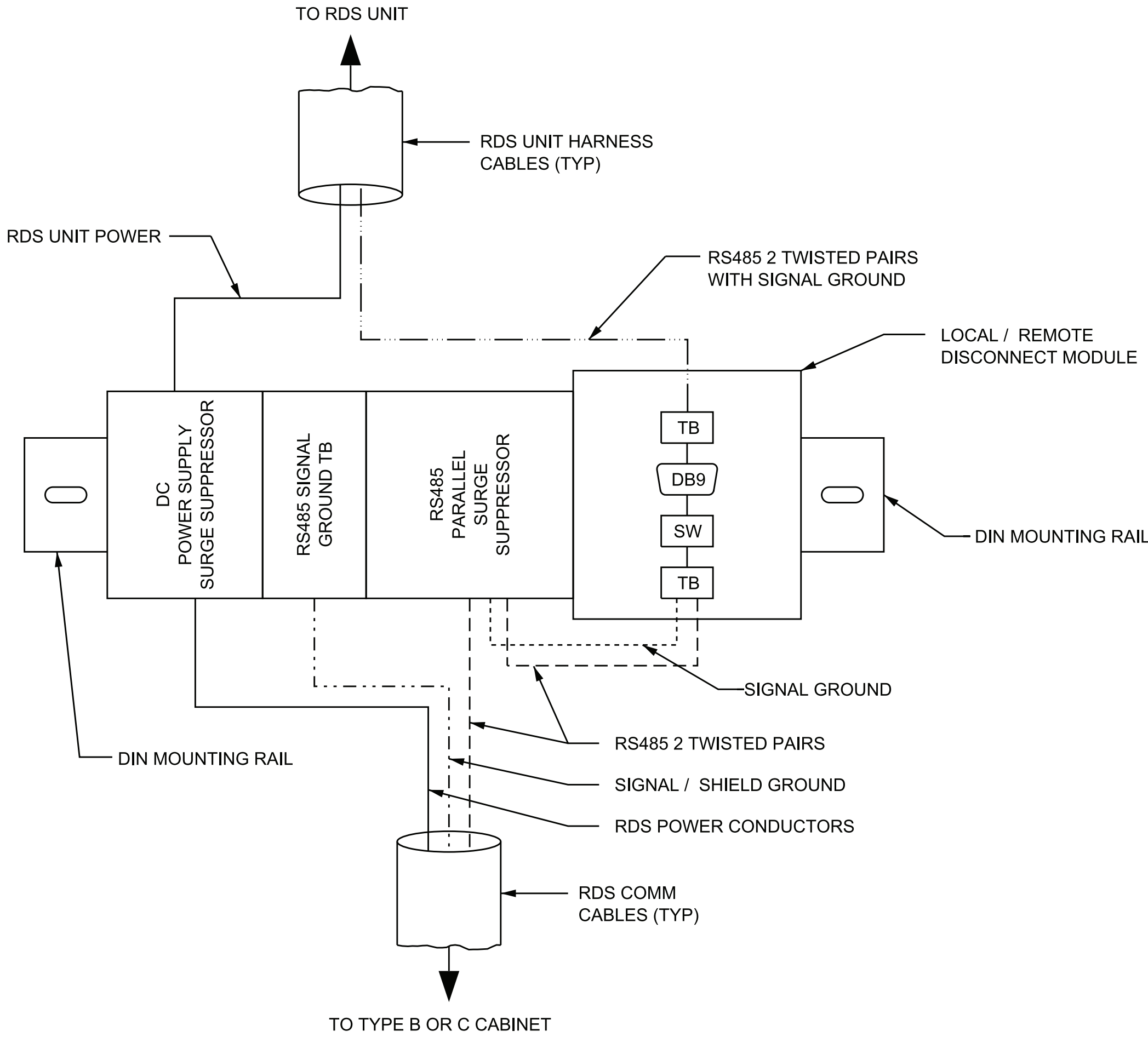


FRONT VIEW

TYPE "A" FIELD CABINET



SIDE VIEW ATTACHED TO POLE

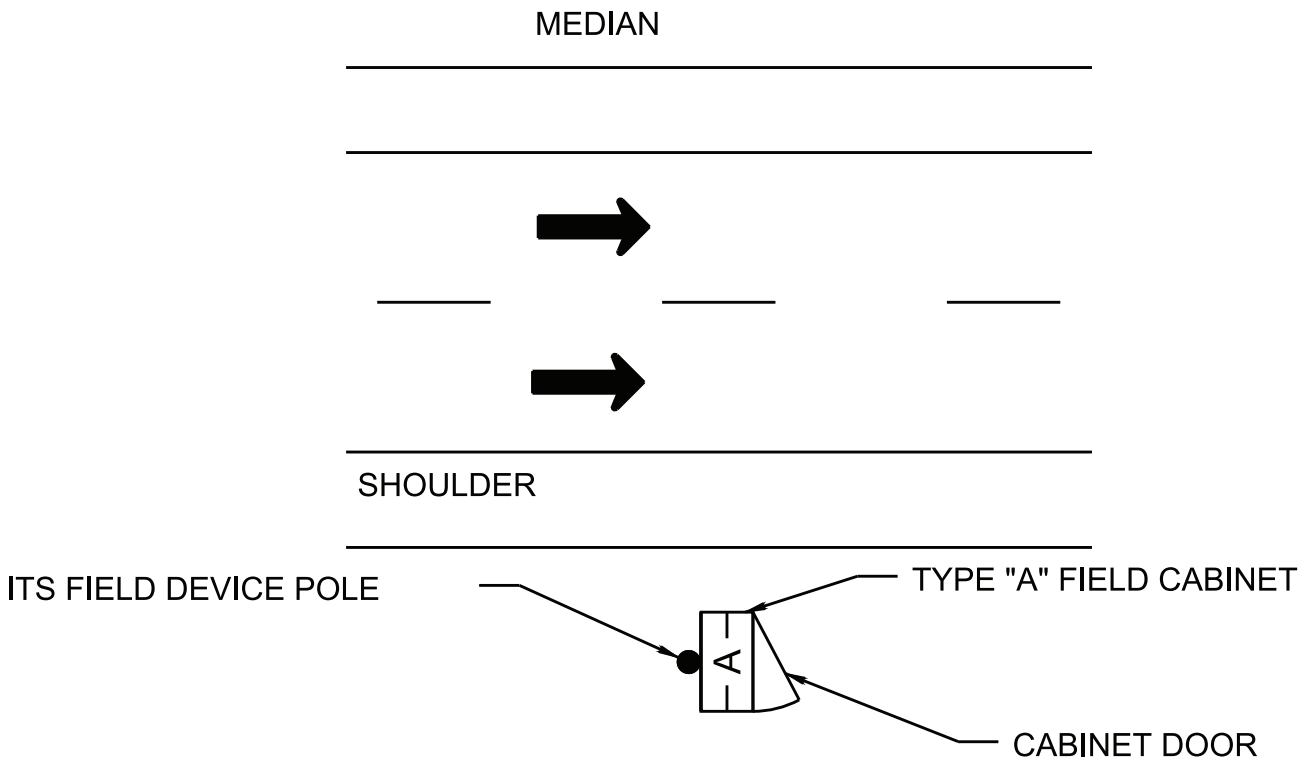


RDS COMM WIRING MODULE  
N.T.S.

NOTES

- FIELD CABINETS ARE ATTACHED TO A NUMBER OF DIFFERENT DEVICES (PROPOSED STRAIN POLES, PROPOSED UTILITY POLES, PROPOSED SPAN SIGN SUPPORTS, EXISTING LIGHT POLES, EXISTING SPAN OR CANTILEVER SIGN SUPPORTS). REFER TO THE ITS LAYOUT SHEETS FOR INDIVIDUAL SITE REQUIREMENTS.
- ATTACHMENTS TO BREAKAWAY POLES SHALL PREVENT CABINET SEPARATION IN THE EVENT OF VEHICLE IMPACT.
- CABINETS SHALL BE LABELED WITH "TDOT ITS" AND DEVICE TYPE AND NUMBER. CABINET DIMENSIONS ARE NOMINAL MINIMUMS. SEE SPECIAL PROVISIONS FOR MORE CABINET DETAILS.
- SUBMIT ANY VARIATION OF THE RDS WIRING MODULE TO THE ENGINEER FOR APPROVAL.

NOT TO SCALE



DETAIL: PLAN VIEW OF TYPE "A"  
FIELD CABINET ORIENTATION  
N.T.S.

LEGEND	
-----	SIGNAL GROUND
-----	RS485 2 TWISTED PAIRS
-----	RS485 2 TWISTED PAIRS WITH SIGNAL GROUND
-----	SIGNAL / SHIELD GROUND
-----	RDS POWER CONDUCTORS

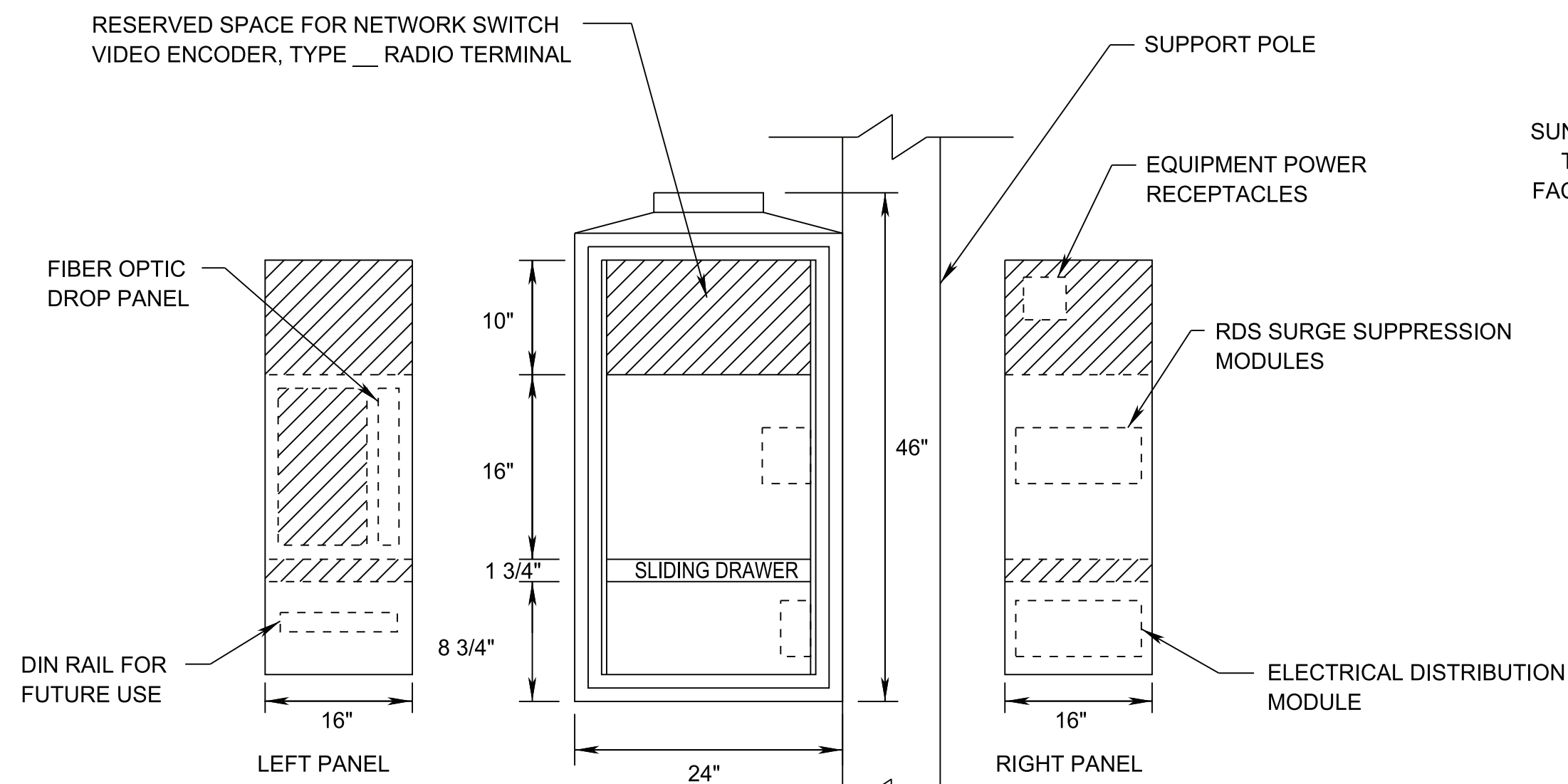
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DEPARTMENT OF TRANSPORTATION

TYPE A  
CABINET  
DETAILS



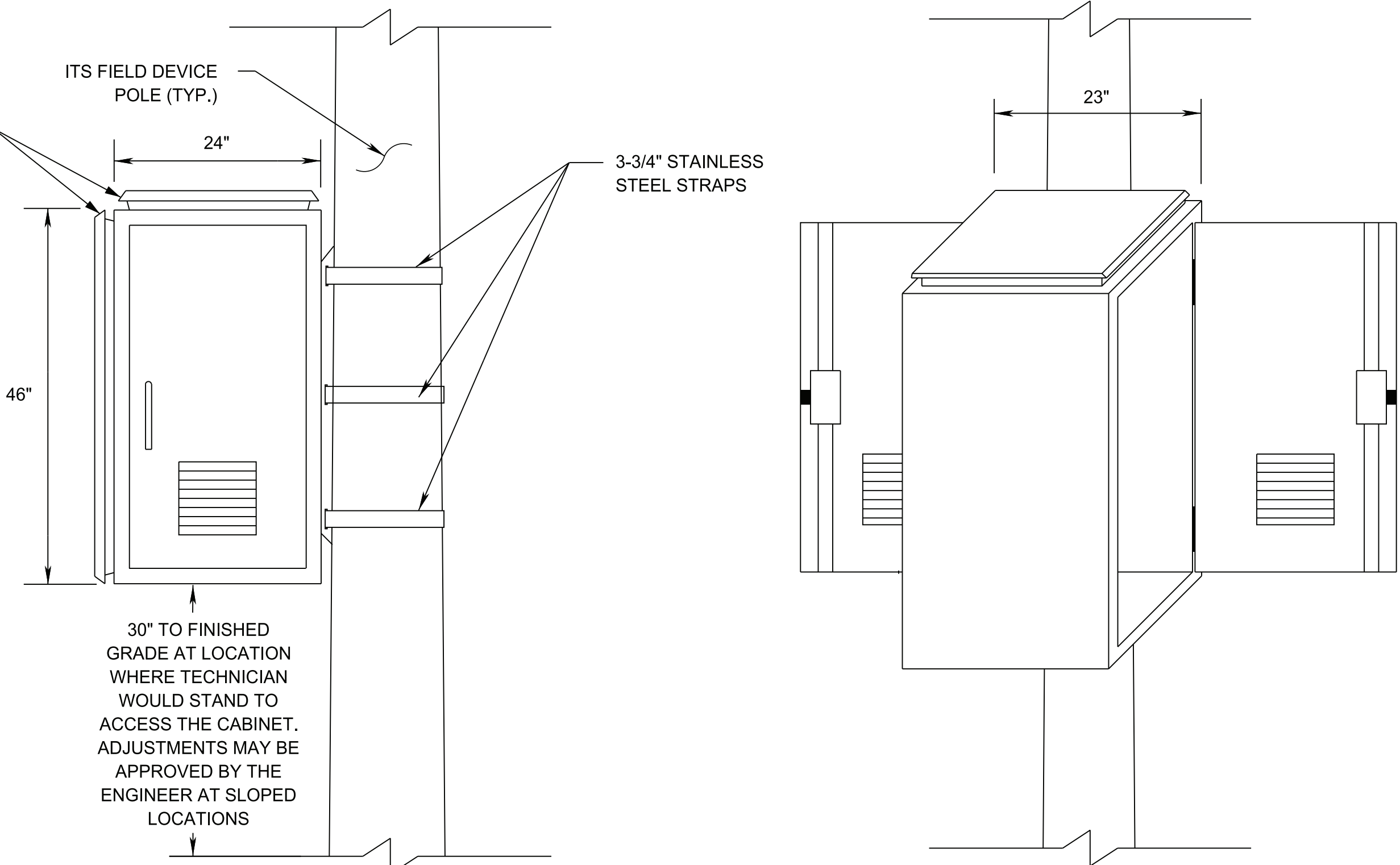
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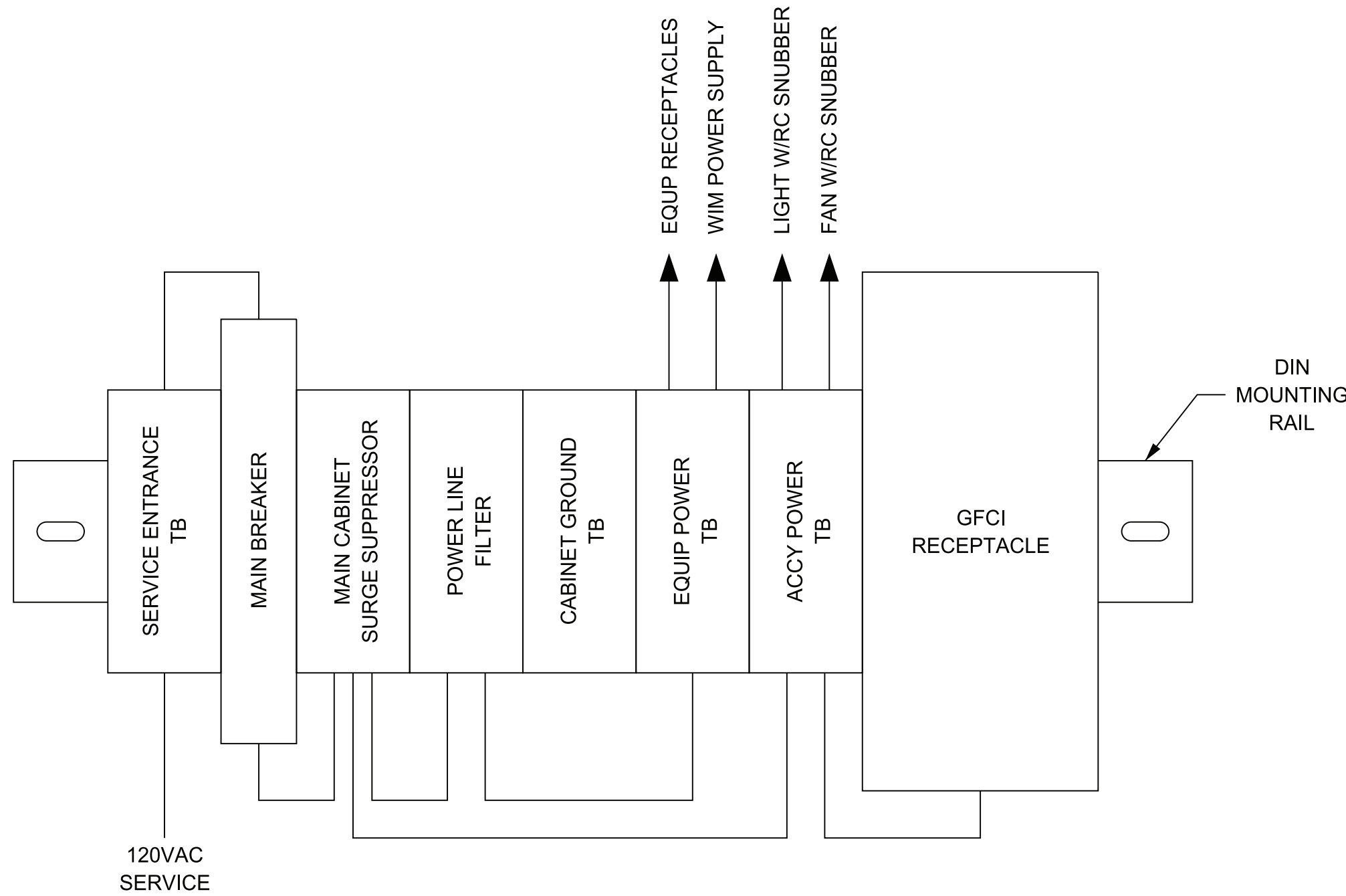
NOTES:

1. ALL DIMENSIONS AND SCALE ARE APPROXIMATE.

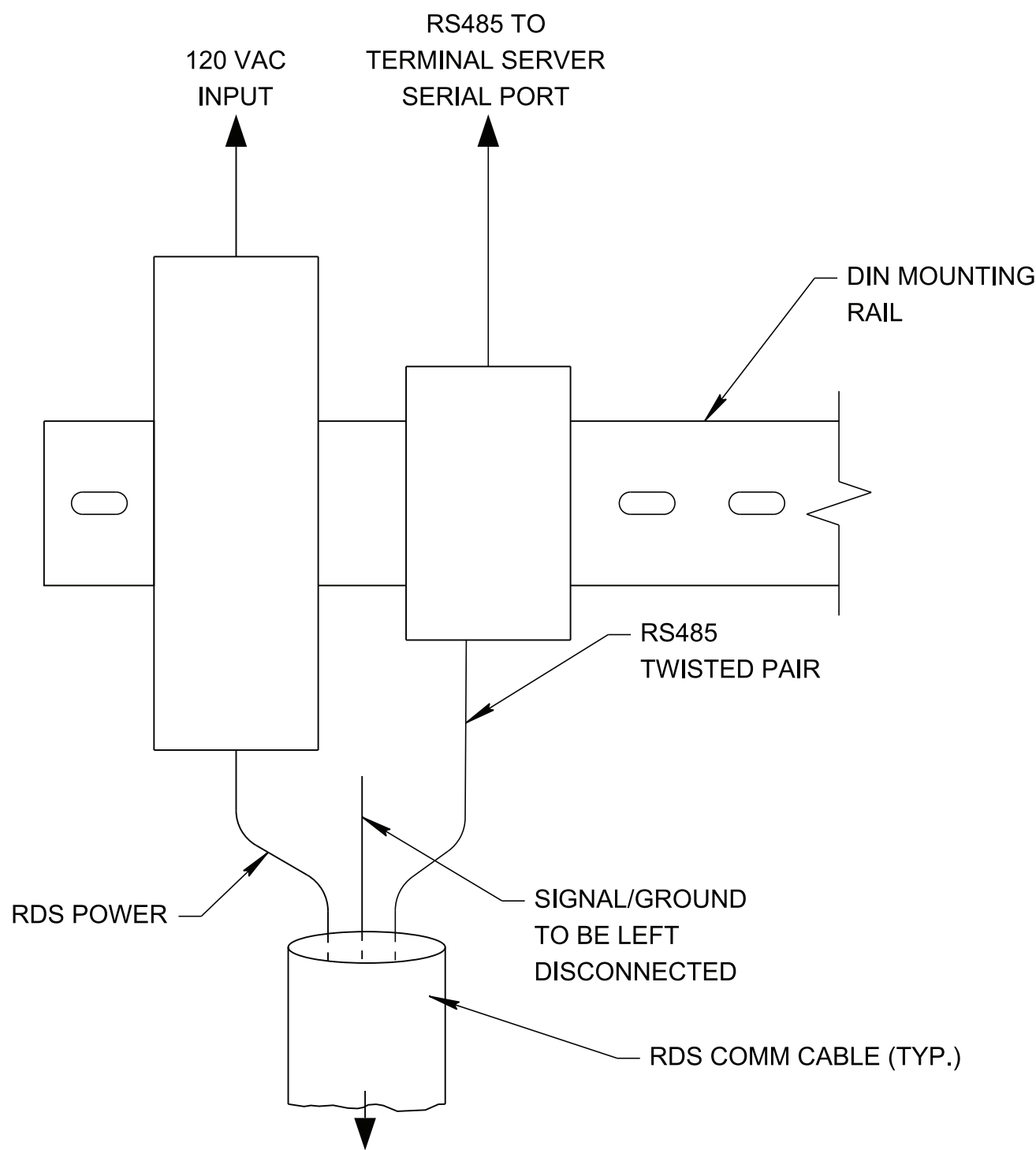
TYPE "B" FIELD CABINET LAYOUT  
N.T.S.



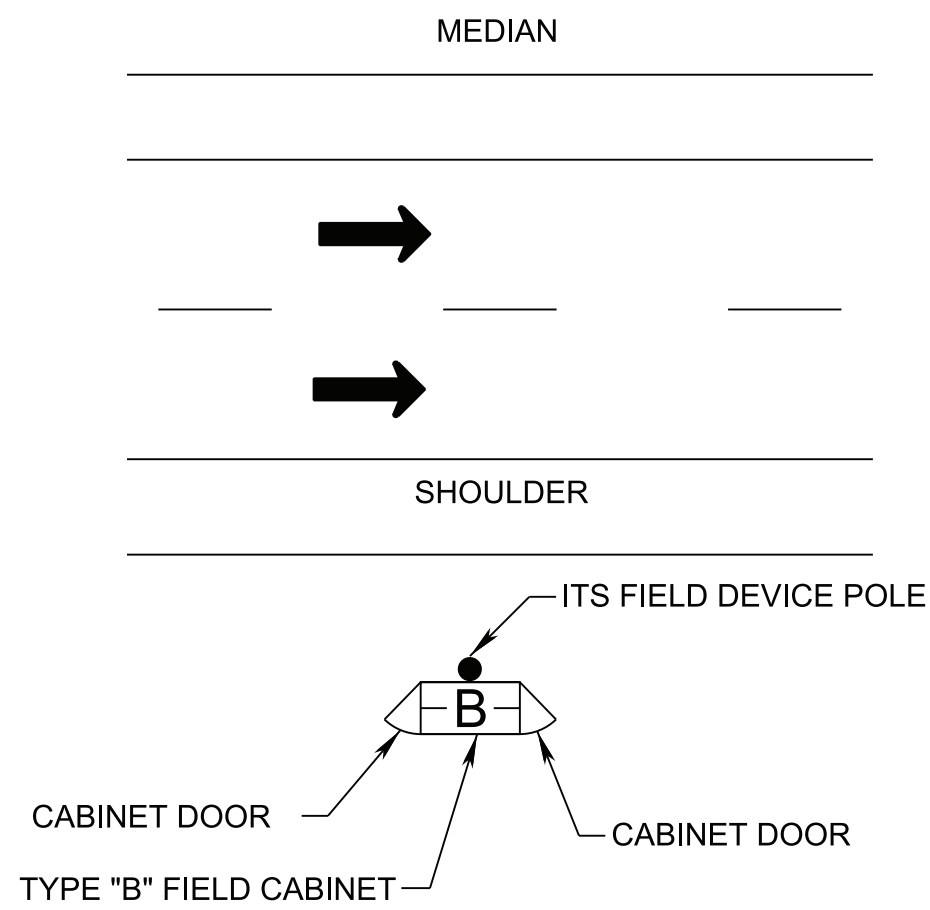
TYPE "B" FIELD CABINET (46" x 24" x 23")  
N.T.S.



ELECTRICAL DISTRIBUTION MODULE



HEAD END RDS COMMUNICATIONS  
WIRING MODULE



DETAIL: PLAN VIEW OF TYPE "B"  
FIELD CABINET ORIENTATION  
N.T.S.

- NOTES:
1. FIELD CABINETS ARE ATTACHED TO A NUMBER OF DIFFERENT DEVICES (PROPOSED STRAIN POLES, PROPOSED UTILITY POLES, PROPOSED SPAN SIGN SUPPORTS, EXISTING LIGHT POLES, EXISTING SPAN OR CANTILEVER SIGN SUPPORTS). REFER TO THE ITS LAYOUT SHEETS AND DETAIL SHEETS FOR INDIVIDUAL SITE REQUIREMENTS.
  2. CABINETS SHALL BE LABELED "TDOT ITS" WITH DEVICE NAME, TYPE, AND NUMBER. CABINET DIMENSIONS ARE NOMINAL MINIMUMS. SEE SPECIAL PROVISIONS FOR MORE CABINET DETAILS.
  3. SUBMIT ANY VARIATION OF THE RDS WIRING MODULE TO THE ENGINEER FOR APPROVAL.

4. SUNSHIELDS SHALL BE REQUIRED FOR ALL FIELD CABINETS. SUNSHIELDS SHALL BE PROVIDED FOR THE TOP PANEL AND FOR EACH FACE OF THE CABINET.
5. CONTRACTOR SHALL SUBMIT ONE (1) SET OF PDF SHOP DRAWINGS FOR EACH CABINET TYPE TO THE ENGINEER FOR APPROVAL.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F1
PS&E	2025	99BVAR-F3-024	2F1

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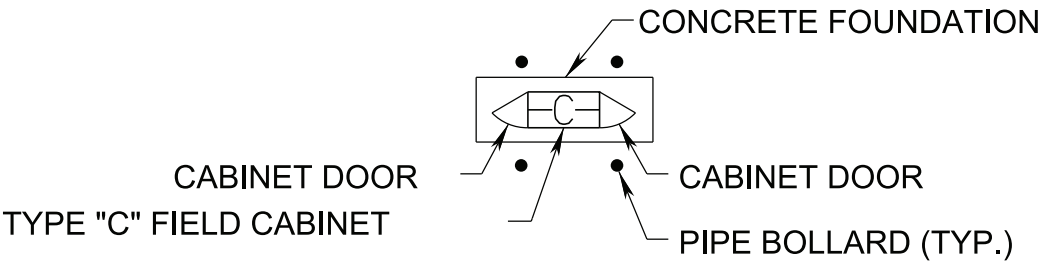
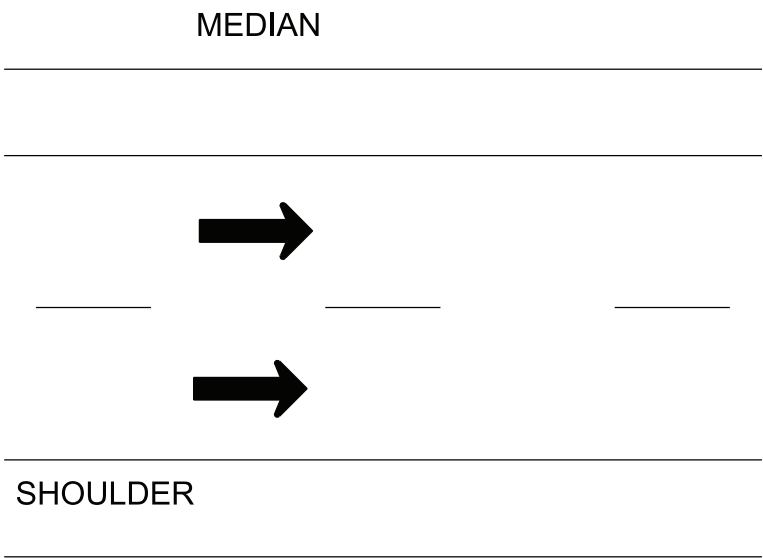
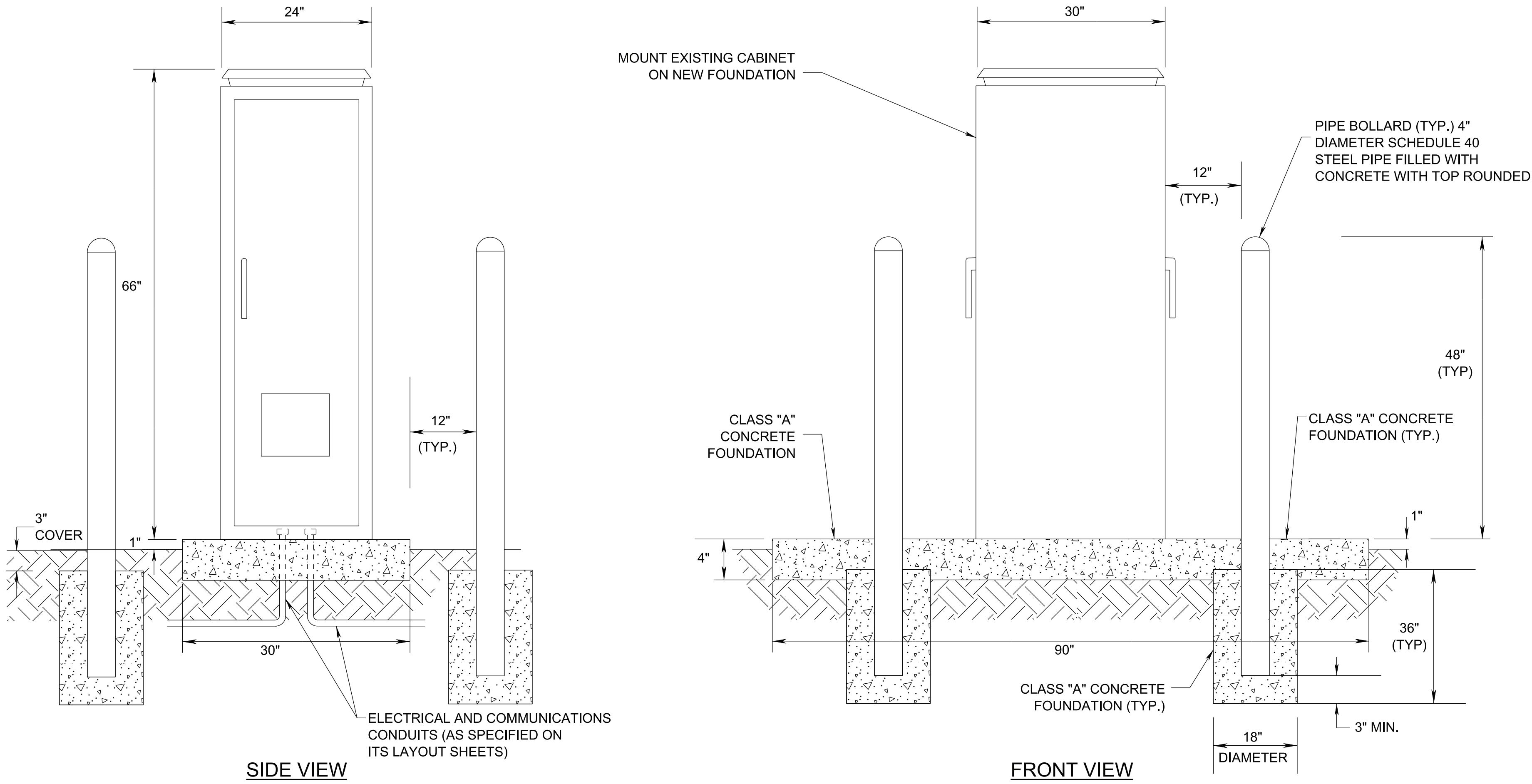
**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**TYPE B  
CABINET  
DETAILS**

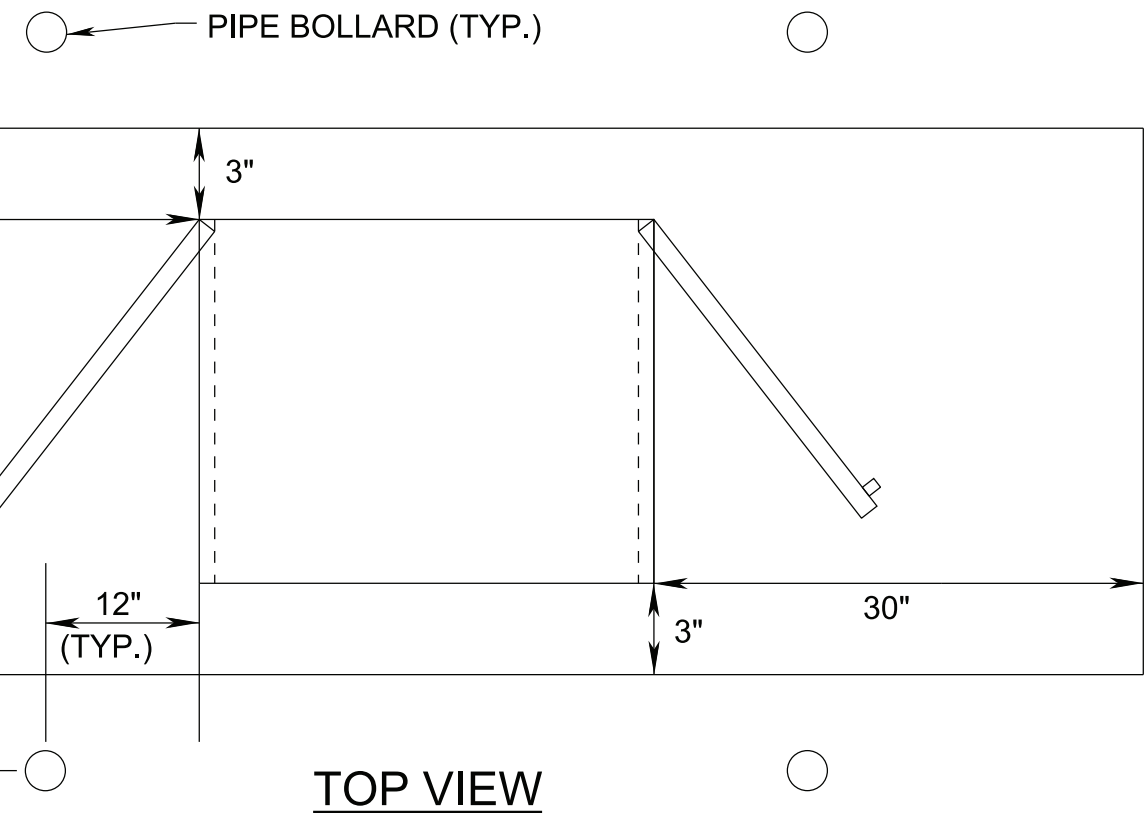


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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F2
PS&E	2025	99BVAR-F3-024	2F2



DETAIL: PLAN VIEW OF TYPE "C"  
FIELD CABINET CONFIGURATION  
N.T.S.



TYPE "C" FIELD CABINET (66"x24"x30")  
N.T.S.

NOTES

1. SUNSHIELDS SHALL BE REQUIRED FOR ALL FIELD CABINETS. SUNSHIELDS SHALL BE PROVIDED FOR THE TOP PANEL AND FOR EACH FACE OF THE CABINET.

2. CABINETS SHALL BE LABELED "TDOT ITS" WITH DEVICE NAME, TYPE, AND NUMBER.

3. CABINET DIMENSIONS ARE NOMINAL MINIMUMS. SEE TECHNICAL SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

4. CONTRACTOR SHALL SUBMIT ONE (1) SET OF PDF SHOP DRAWINGS FOR EACH CABINET TYPE TO THE ENGINEER FOR APPROVAL.

5. PREFABRICATED CONCRETE OR POLYMER CONCRETE FOUNDATIONS MAY SUBSTITUTED FOR APPROVAL BY THE ENGINEER IN LIEU OF CAST IN PLACE CONCRETE FOUNDATIONS
6. CONCRETE NEEDED TO FORM PAD MAY VARY BASED UPON SLOPE CONDITIONS ENCOUNTERED IN THE FIELD FOR THE TYPE "C" CABINET.

7. BOLLARDS FOR THE TYPE "C" CABINET INSTALLATIONS SHALL BE 4" DIAMETER SCHEDULE 40 STEEL PIPES FILLED WITH CONCRETE WITH THE TOP ROUNDED. FOUNDATION SHALL BE 18" IN DIAMETER, 36" DEEP, AND HAVE 3" OF COVER ABOVE THE FOOTING.

8. AT LOCATIONS WHERE THE TYPE "C" CABINETS ARE PLACED BEHIND GUARDRAIL, PIPE BOLLARDS WILL ONLY BE REQUIRED ON THE OUTSIDE EDGE OF THE CABINET (I.E. THE SIDE NOT PROTECTED BY THE GUARDRAIL).

NOT TO SCALE

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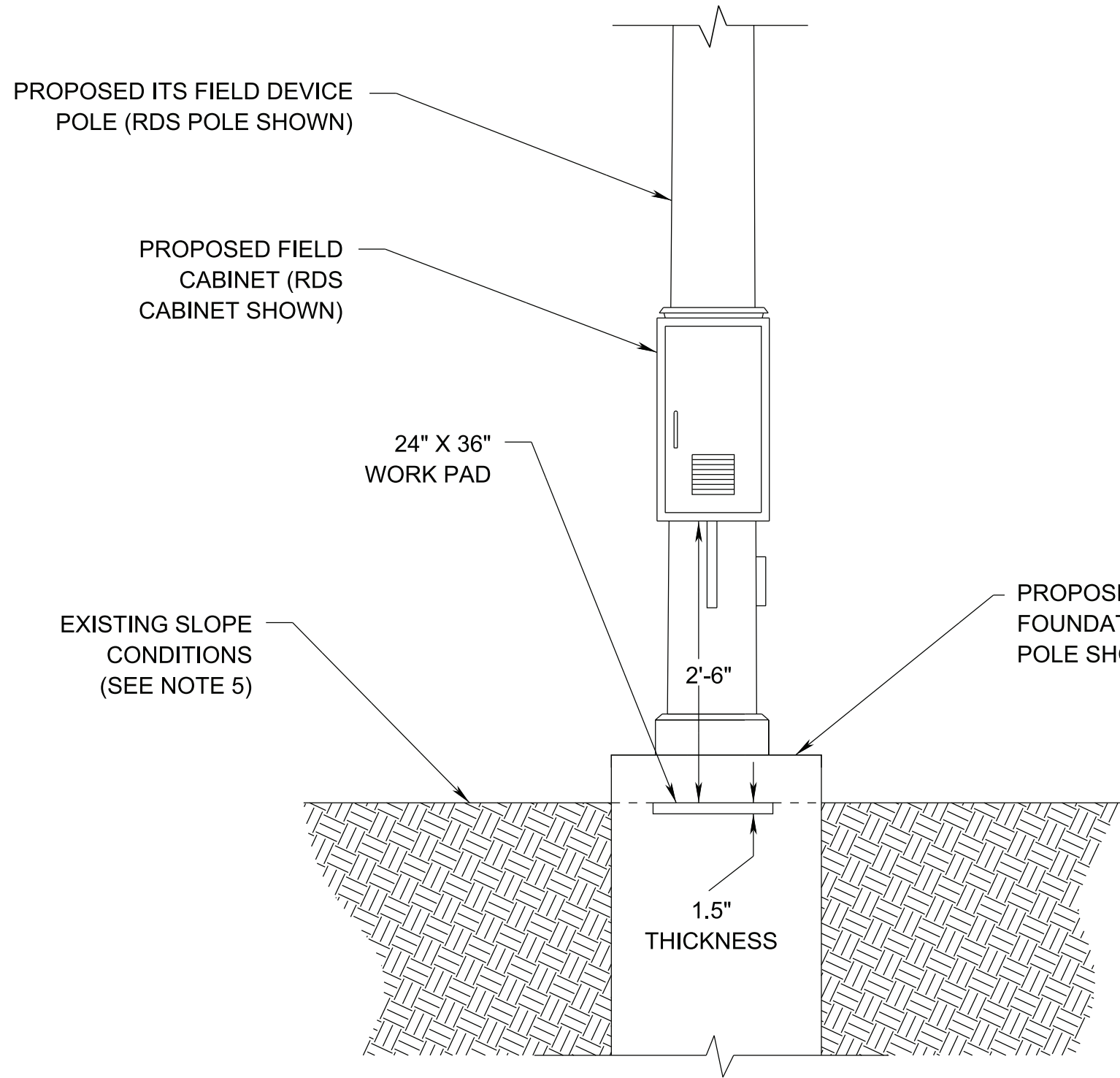
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

TYPE C  
CABINET  
DETAILS

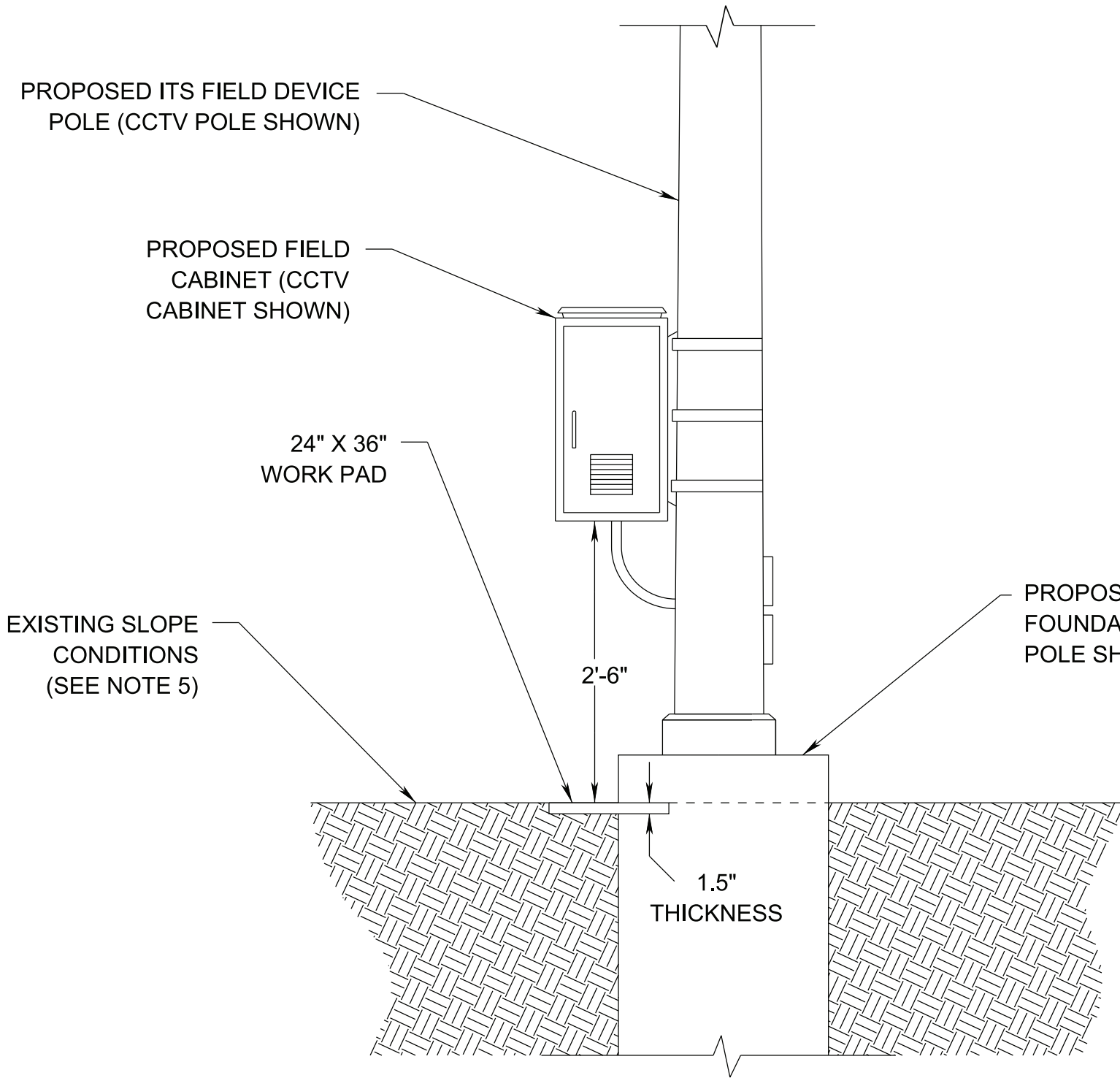


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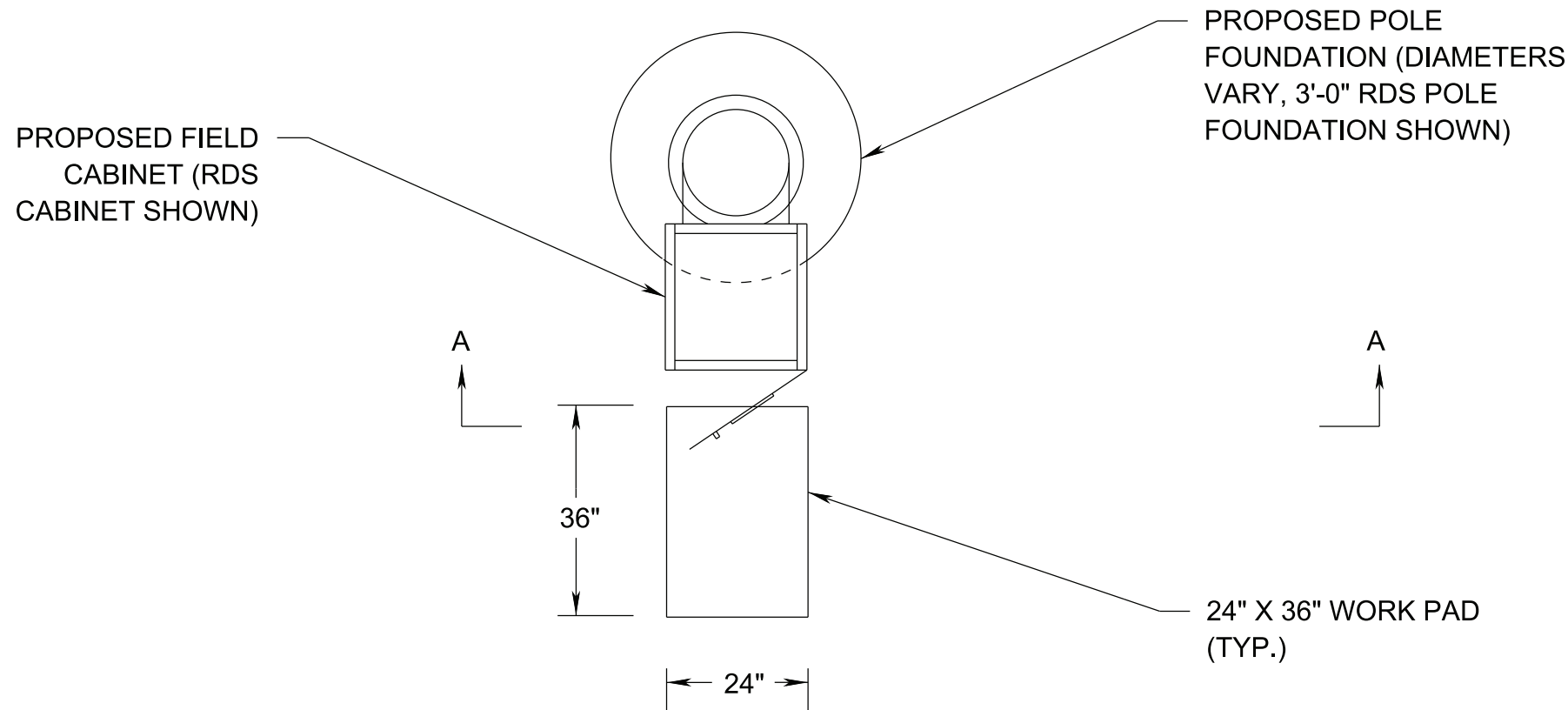
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F3
PS&E	2025	99BVAR-F3-024	2F3



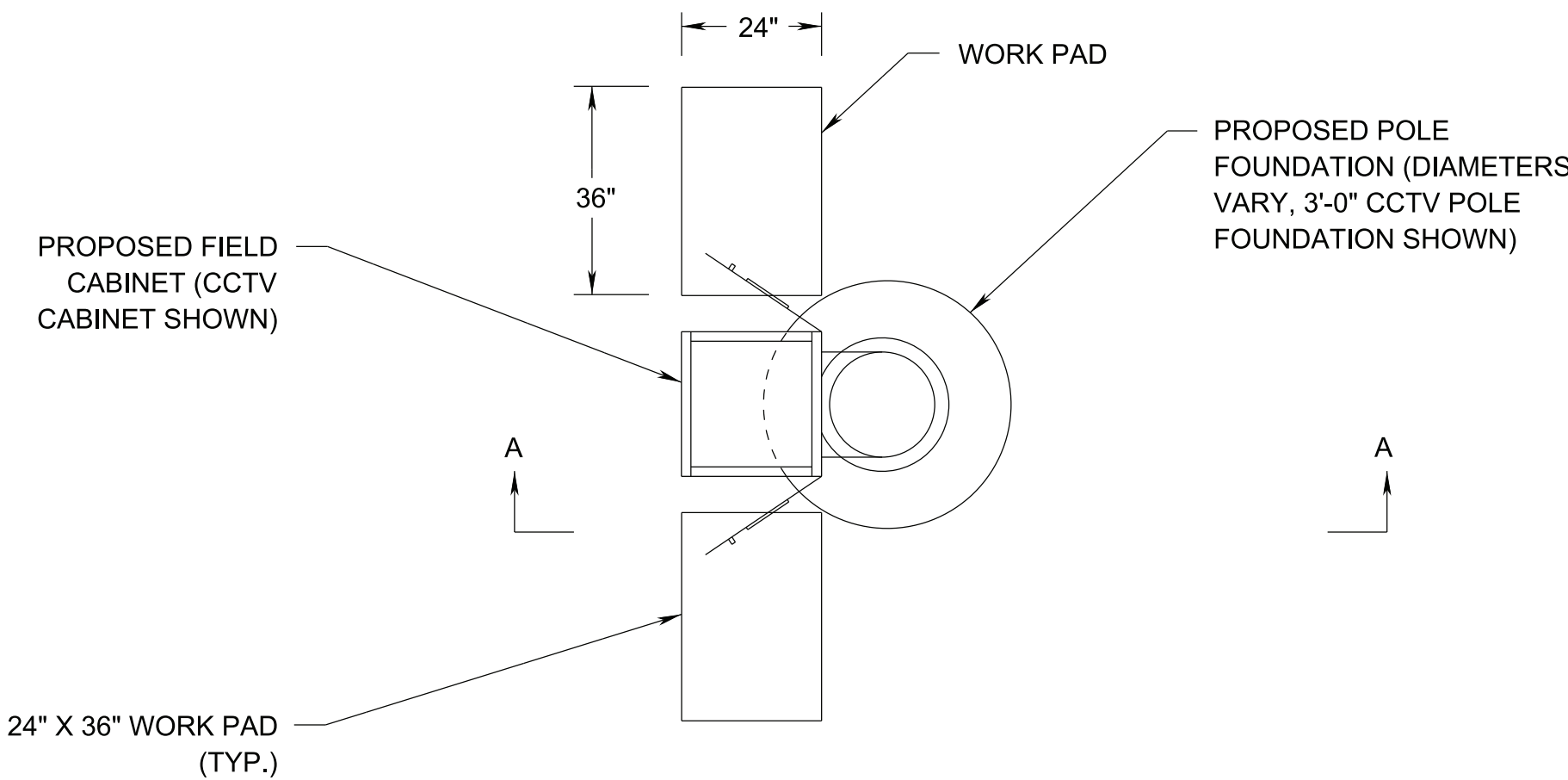
SECTION A-A  
N.T.S.



SECTION A-A  
N.T.S.



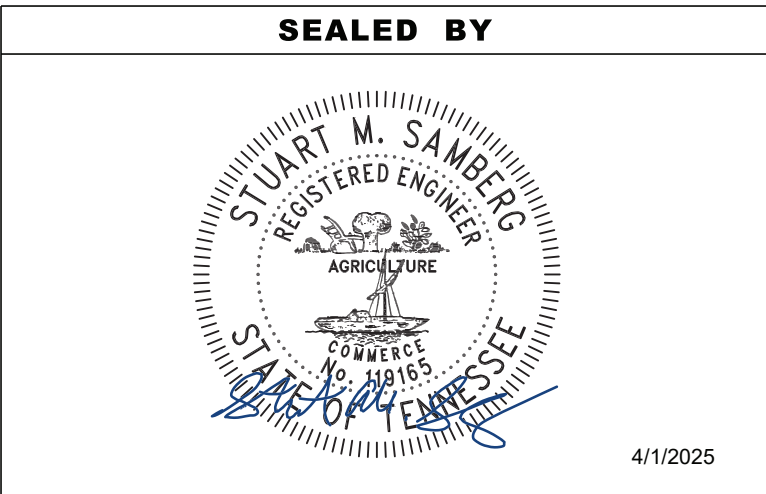
MAINTENANCE WORK PAD  
DETAIL PLAN VIEW (RDS POLE)  
N.T.S.



MAINTENANCE WORK PAD  
DETAIL PLAN VIEW (CCTV POLE)  
N.T.S.

NOTES:

- WORK PAD DECKS SHALL BE COMPOSED OF PRESSURE TREATED WOOD. THE TOP SURFACE SHALL BE COMPOSED OF COMPOSITE MATERIALS AND HAVE A 0.5 COEFFICIENT OF FRICTION SKID RESISTANT SURFACE. WORK PAD DECK SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. WORK PAD DECK SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.
- WORK PADS WILL BE REQUIRED AT EACH POLE-MOUNTED CABINET.
- COMPACTED BACKFILL WILL BE CONSIDERED AT THE DISCRETION OF THE ENGINEER FOR SLOPE CONDITIONS OF 3:1 (H:V) OR STEEPER.
- SLOPE CONDITIONS CONSTRUCTED FOR EITHER THE LEVELING CUT OR THE COMPACTED BACKFILL SHALL NOT EXCEED A 2:1 (H:V) SLOPE.
- IF BACKFILL MATERIAL IS DEEMED NECESSARY BY DIRECTION OF THE ENGINEER, IT SHALL BE A COMBINATION OF EXCAVATED MATERIAL FROM WORK PADS, IF SATISFACTORY, AND BORROW MATERIAL. IF NECESSARY, THIS BORROW MATERIAL SHALL BE INCLUDED IN THE PAY ITEM NUMBER FOR "MINERAL AGGREGATE, TYPE A BASE, GRADING D", PAY ITEM 303-01.
- ALL DISTURBED AREAS ADJACENT TO THE WORK PAD SHALL HAVE SEED APPLIED AND EROSION CONTROL BLANKET (TYPE II) INSTALLED.



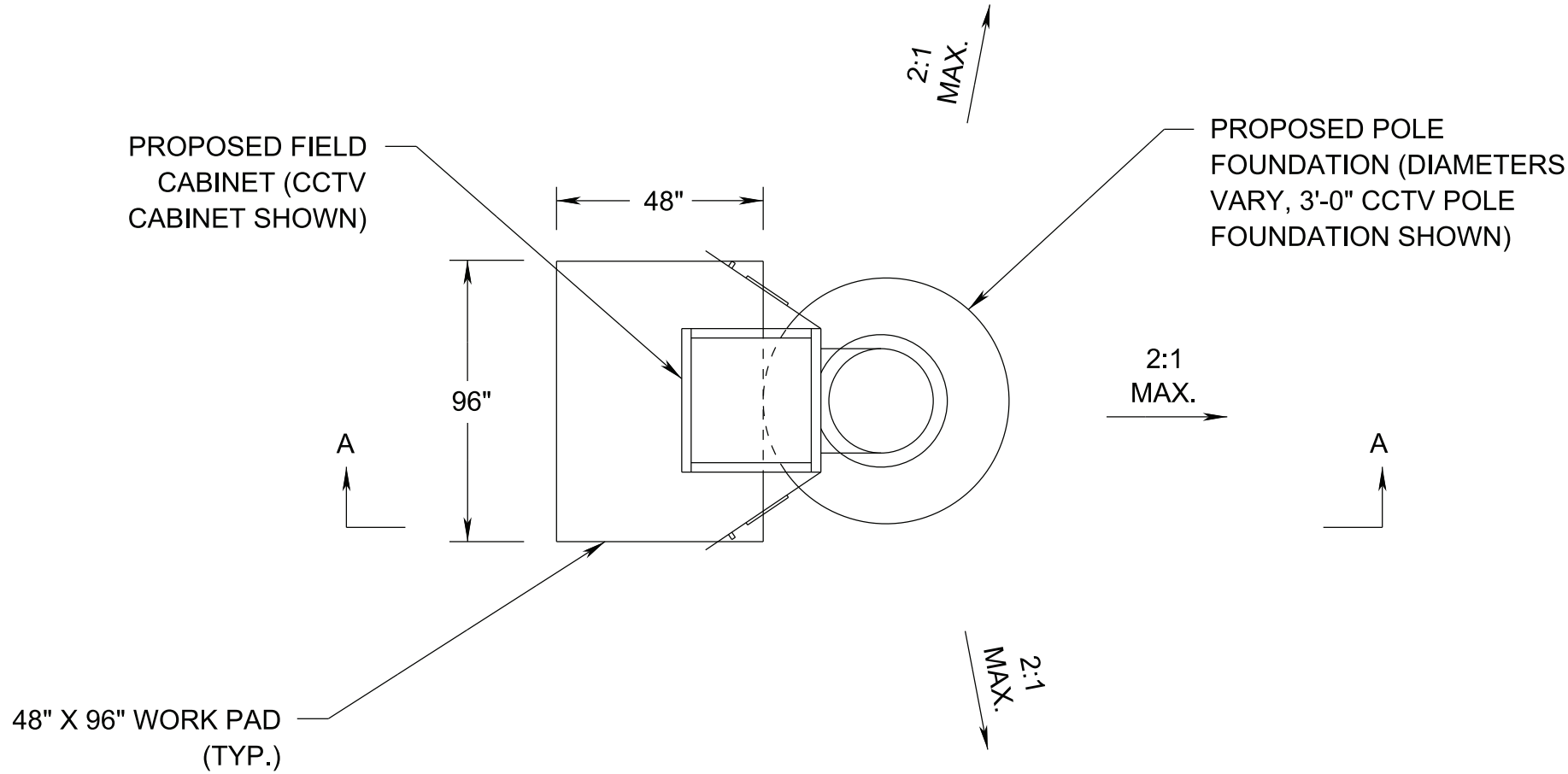
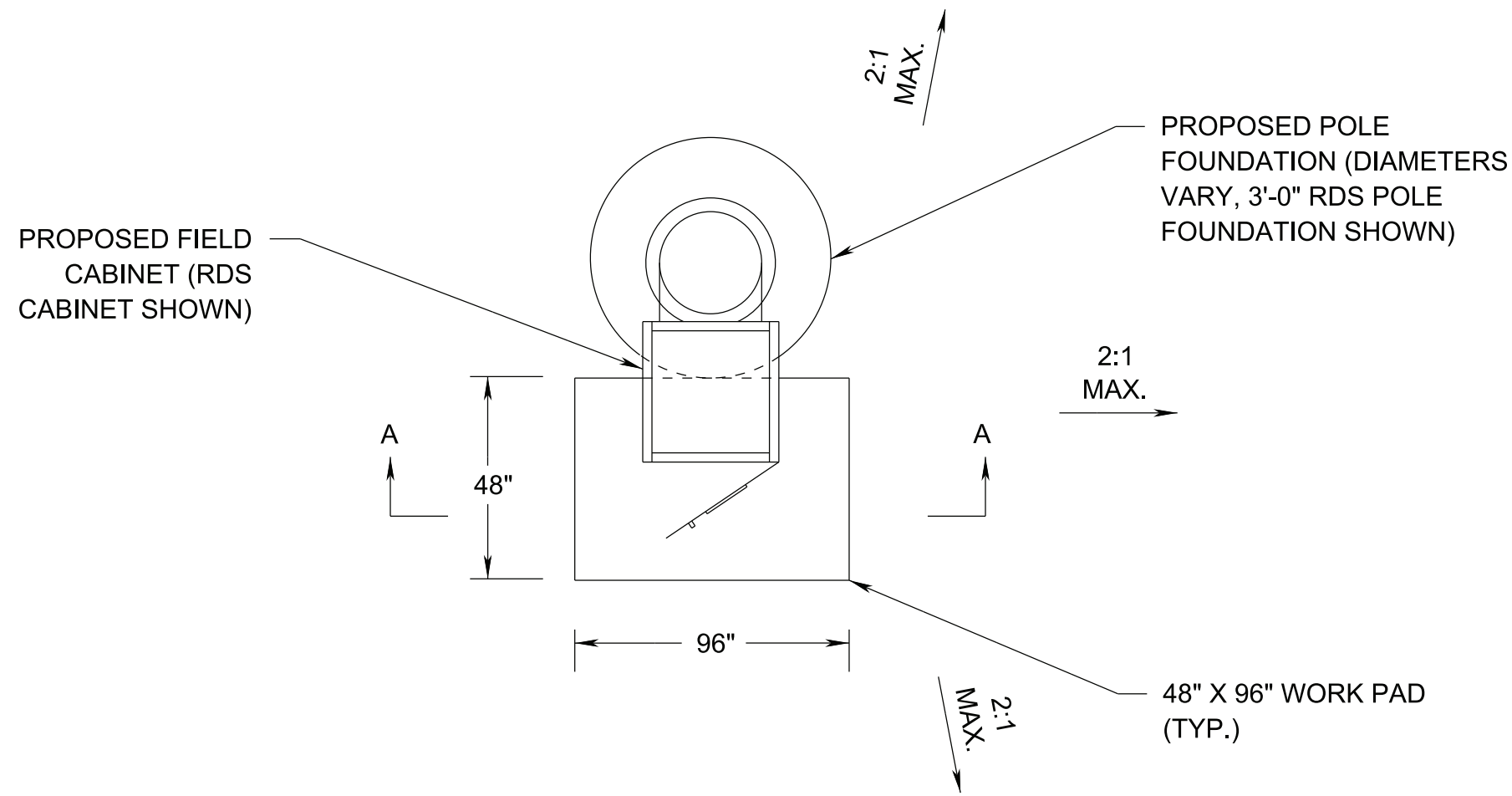
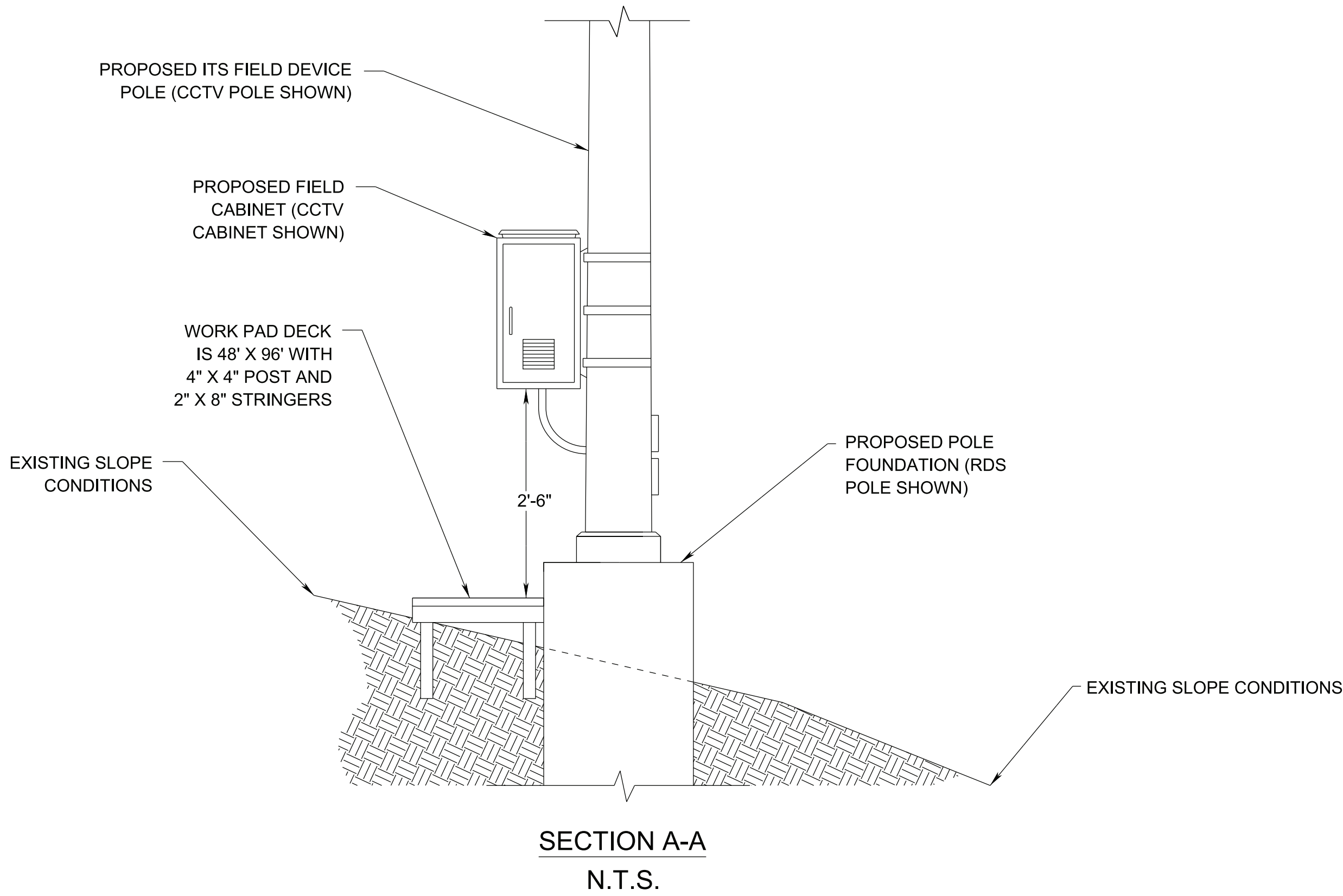
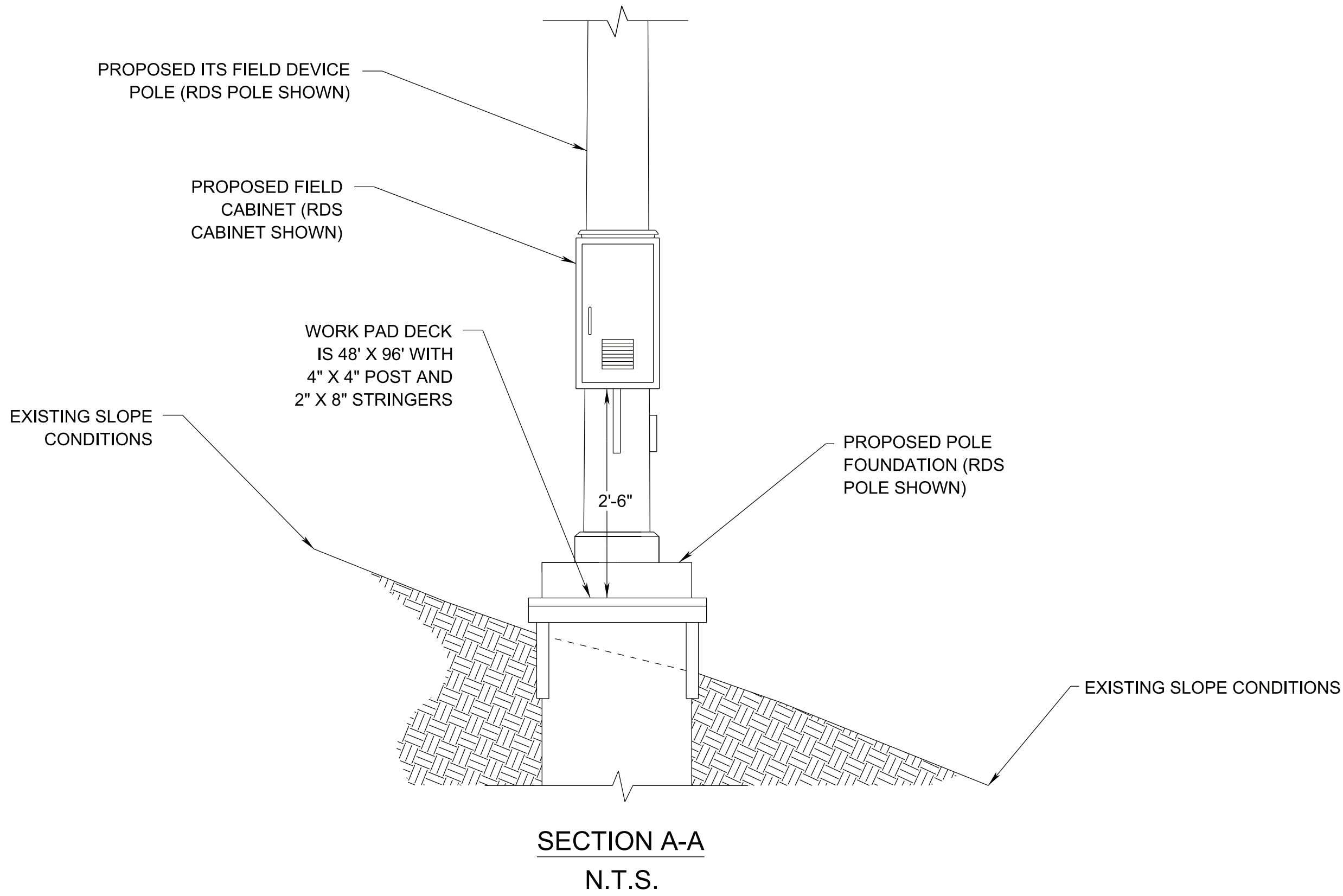
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DEPARTMENT OF TRANSPORTATION

TYPICAL  
MAINTENANCE  
WORK PAD  
DETAILS



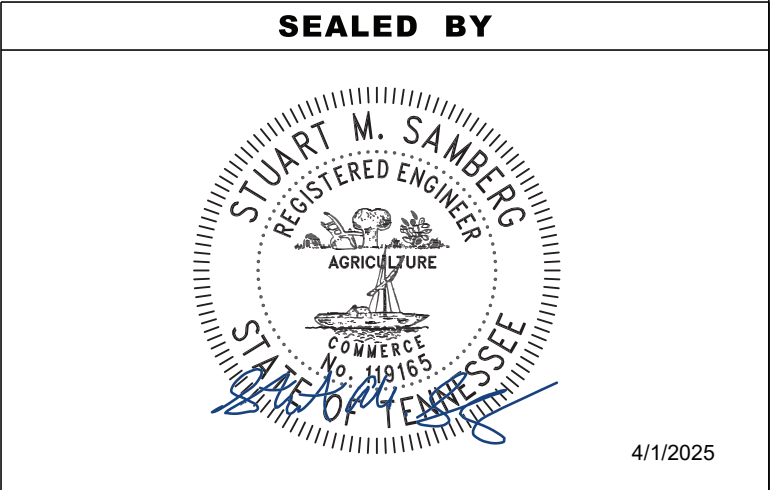
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F4
PS&E	2025	99BVAR-F3-024	2F4



NOTES:

- WORK PAD DECKS SHALL BE COMPOSED OF PRESSURE TREATED WOOD. THE TOP SURFACE SHALL BE COMPOSED OF COMPOSITE MATERIALS AND HAVE A 0.5 COEFFICIENT OF FRICTION SKID RESISTANT SURFACE. WORK PAD DECK SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. WORK PAD DECK SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.
- WORK PADS WILL BE REQUIRED AT EACH POLE-MOUNTED CABINET.
- COMPACTED BACKFILL WILL BE CONSIDERED AT THE DISCRETION OF THE ENGINEER FOR SLOPE CONDITIONS OF 3:1 (H:V) OR STEEPER.
- SLOPE CONDITIONS CONSTRUCTED FOR EITHER THE LEVELING CUT OR THE COMPACTED BACKFILL SHALL NOT EXCEED A 2:1 (H:V) SLOPE.
- IF BACKFILL MATERIAL IS DEEMED NECESSARY BY DIRECTION OF THE ENGINEER, IT SHALL BE A COMBINATION OF EXCAVATED MATERIAL FROM WORK PADS, IF SATISFACTORY, AND BORROW MATERIAL. IF NECESSARY, THIS BORROW MATERIAL SHALL BE INCLUDED IN THE PAY ITEM NUMBER FOR "MINERAL AGGREGATE, TYPE A BASE, GRADING D", PAY ITEM 303-01.
- ALL DISTURBED AREAS ADJACENT TO THE WORK PAD SHALL HAVE SEED APPLIED AND EROSION CONTROL BLANKET (TYPE II) INSTALLED.

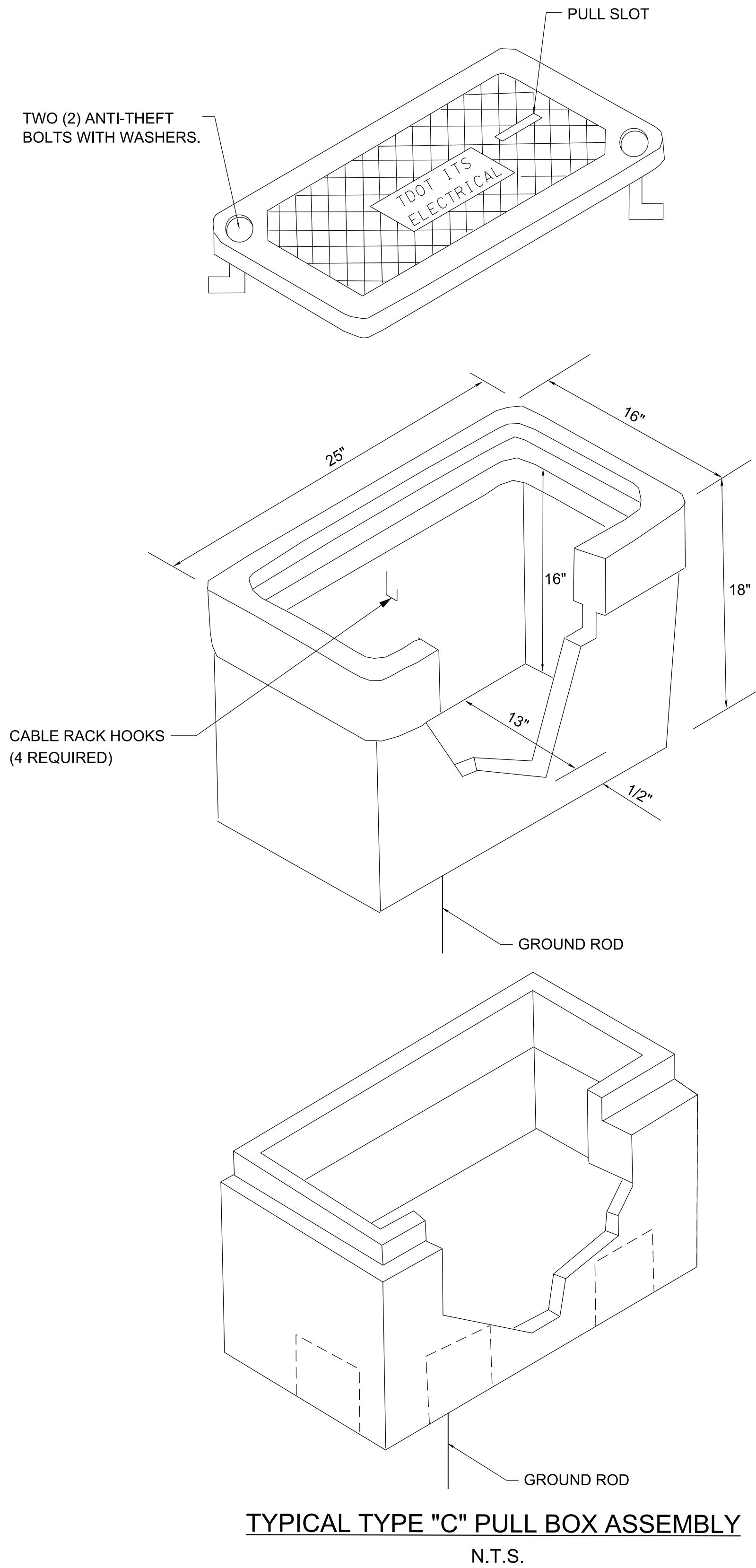


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

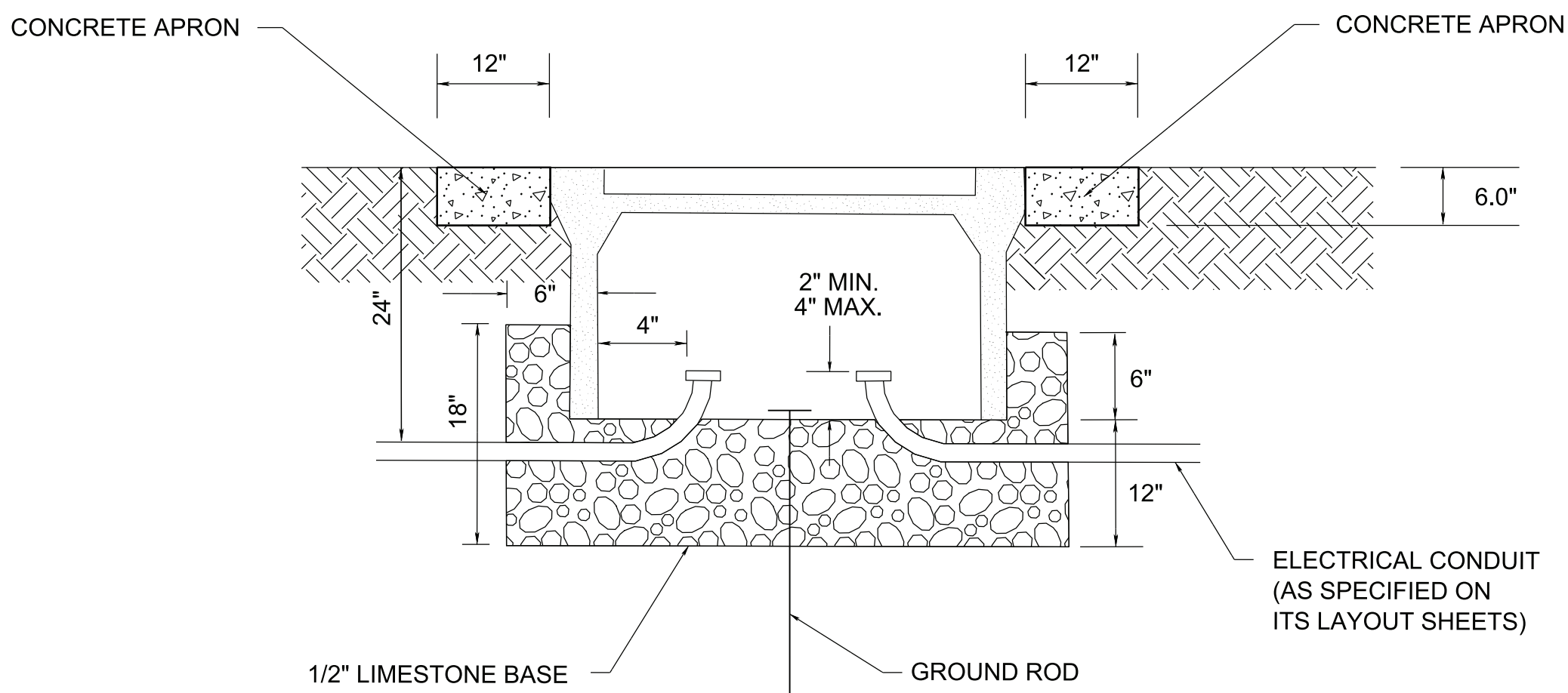
TYPICAL  
MAINTENANCE  
WORK PAD  
DETAILS



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**TYPICAL TYPE "C" PULL BOX ASSEMBLY**  
N.T.S.



**TYPICAL TYPE "C" PULL BOX INSTALLATION**  
N.T.S.

SHOWN AS



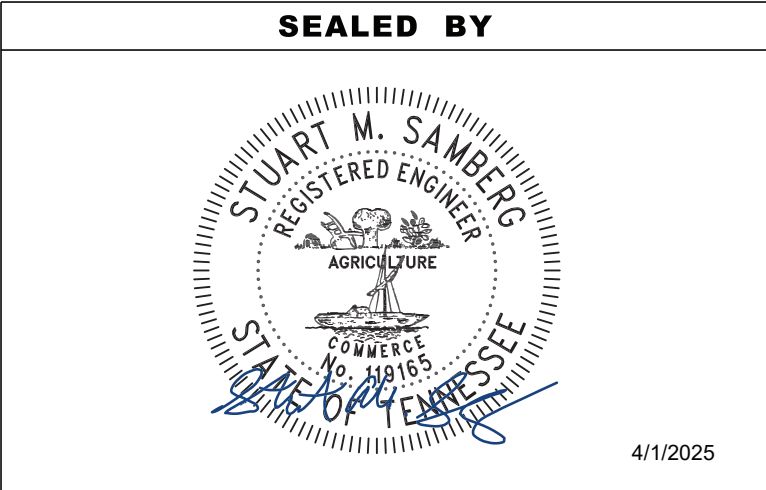
**NOTES:**

TYPE "C" PULL BOX WITH COVER

THE PULL BOX SHALL MEET THE FOLLOWING REQUIREMENTS:

1. MINIMUM DIMENSIONS: 25"W X 16"L X 18"D EXTERIOR, 24"W X 13"L X 16"D INTERIOR.
2. PULL BOX COVER SHALL BE PRECAST COMPOSITE POLYMER CONCRETE PRODUCT.
3. PULL BOXES AND COVERS SHALL BE SINGLE-STACK OPEN-BOTTOM ASSEMBLIES CONFIGURED AS SHOWN IN THE PLANS.
4. SHALL MEET OR EXCEED CURRENT ANSI/SCTE 77 TIER 22 LOADING REQUIREMENTS.
5. PULL BOX SHALL MEET CURRENT NEC STANDARDS FOR HANDHOLD ENCLOSURES.
6. PULL BOX COVER SHALL BE LABELED (TDOT ITS ELECTRICAL).
7. TYPE "C" PULL BOXES SHALL ONLY BE USED FOR ELECTRICAL POWER CONDUIT/WIRING.
8. UNUSED CONDUIT SHALL BE STUBBED OUT AND CAPPED TO PRESERVE FOR FUTURE USE.
9. GPS COORDINATES OF EACH PULLBOX WILL BE RECORDED IN THE AS-BUILT PLANS TO BE TURNED IN WITH THIS PROJECT.
10. TYPE "C" PULL BOXES SHALL HAVE 12" WIDE (MIN.) X 6" DEEP CONCRETE APRON SLOPED AWAY FROM BOX. APRON IS TO BE INCLUDED IN THE COST OF EACH BOX.
11. A GROUND ROD WILL BE INSTALLED AT EACH ELECTRICAL PULL BOX. BOND GROUND ELECTRODE TO PULL BOX METALLIC COVER BASE WITH #6 AWG BARE COPPER CONDUCTOR.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F5
PS&E	2025	99BVAR-F3-024	2F5



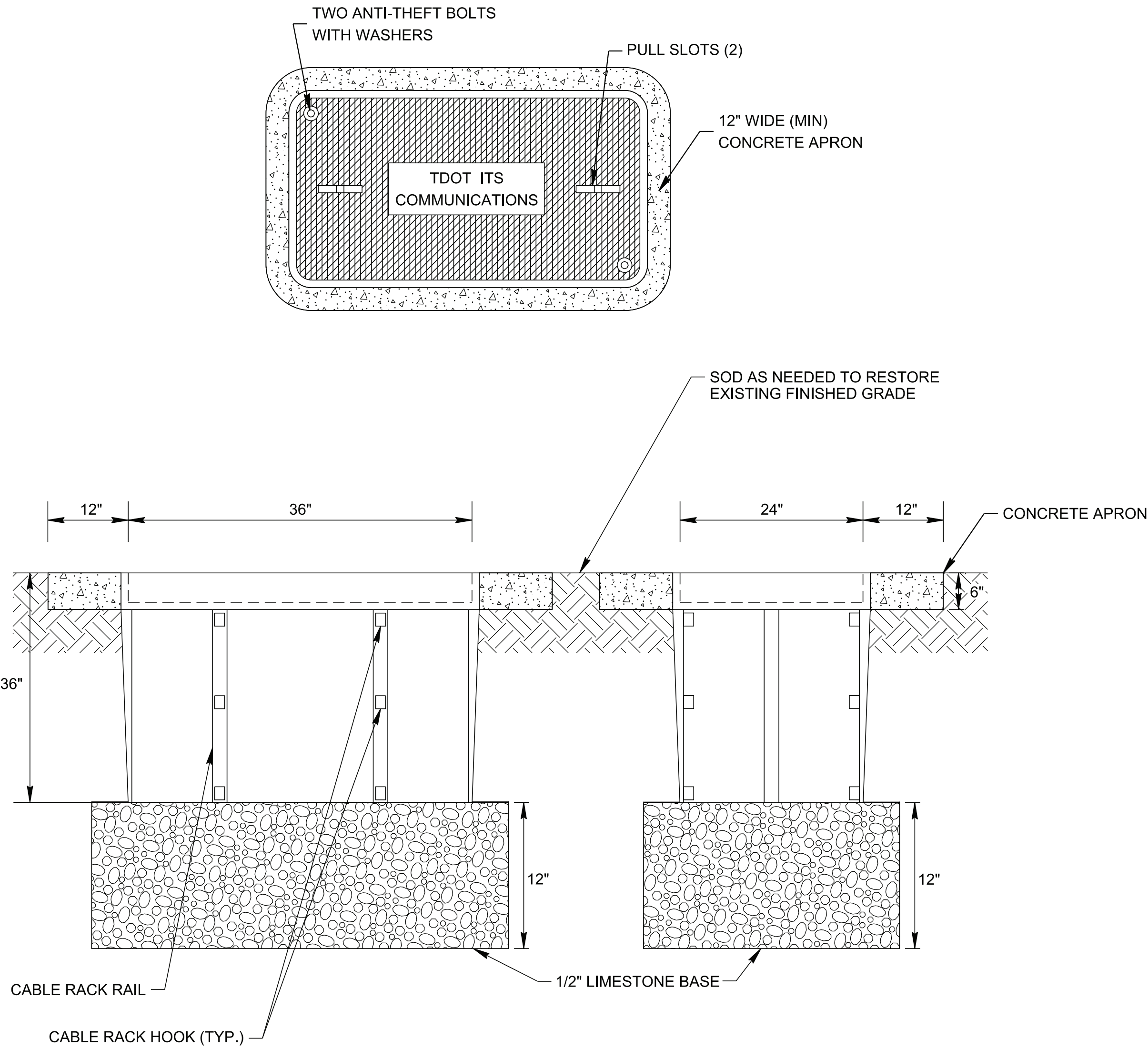
**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

**TYPE C**  
**PULL BOX**  
**DETAILS**



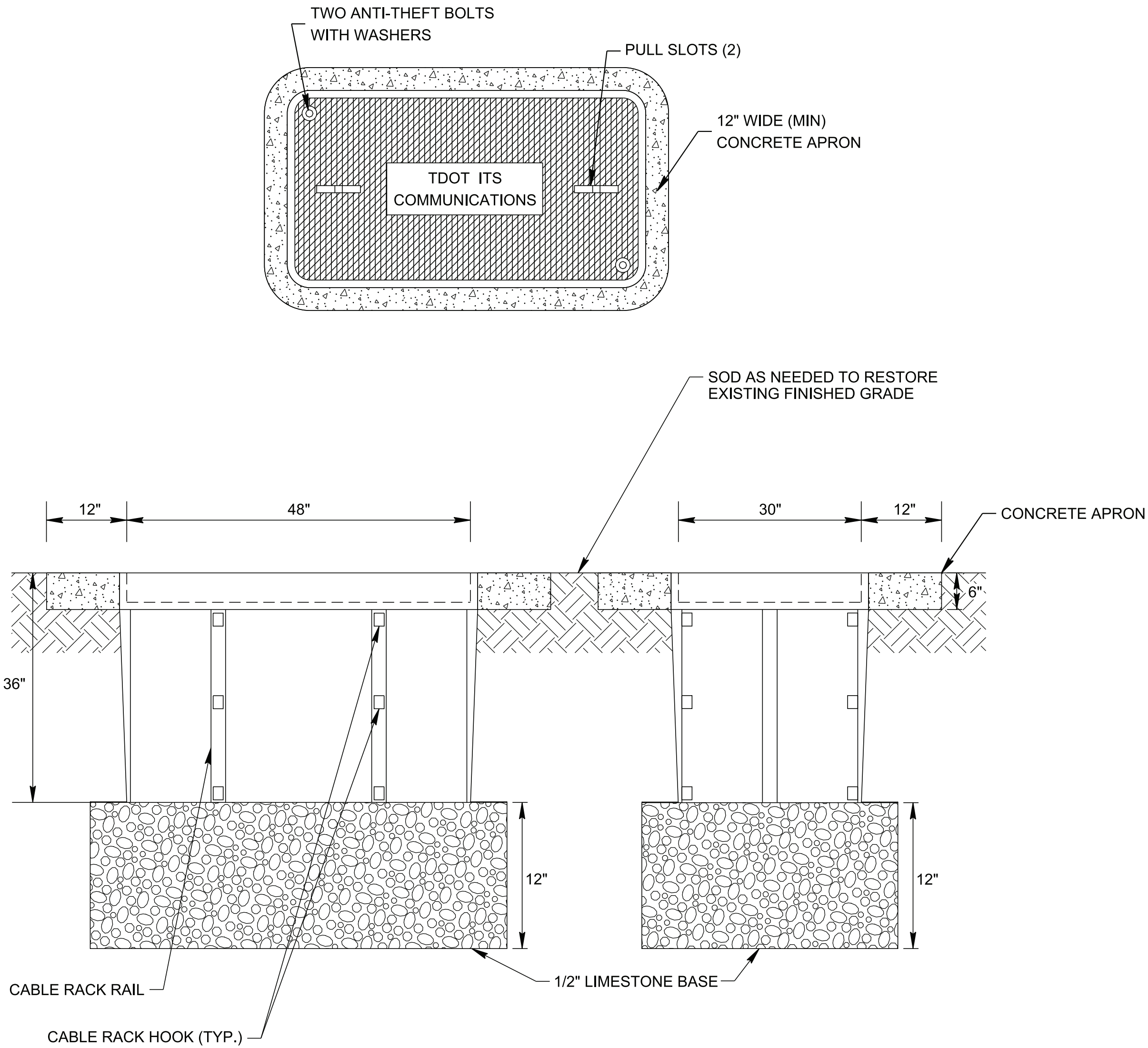
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F6
PS&E	2025	99BVAR-F3-024	2F6



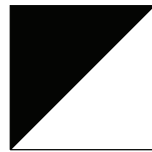
TYPE "D" PULL BOX ASSEMBLY  
N.T.S.

SHOWN AS



TYPE "E" PULL BOX ASSEMBLY  
N.T.S.

SHOWN AS

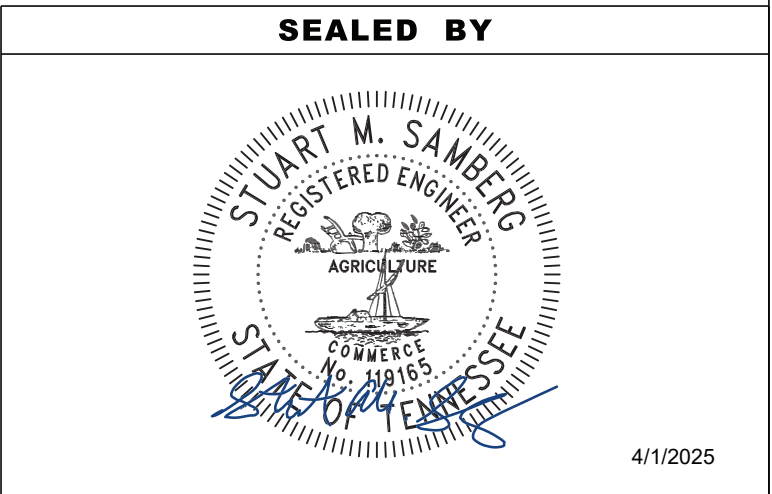


NOTES:

TYPE D AND E PULL BOX WITH COVER

- PULL BOX COVER SHALL BE PRECAST COMPOSITE POLYMER CONCRETE PRODUCT.
- PULL BOXES & COVERS SHALL BE SINGLE-STACK OPEN-BOTTOM ASSEMBLIES CONFIGURED AS SHOWN IN PLANS.
- SHALL MEET OR EXCEED CURRENT ANSI/SCTE 77 TIER 22 LOADING REQUIREMENTS.
- PULL BOX SHALL MEET CURRENT NEC STANDARDS FOR HANDHOLE ENCLOSURES.
- PULL BOX COVER SHALL BE LABELED (TDOT ITS COMMUNICATIONS).
- EACH PULL BOX SHALL COME EQUIPPED WITH 4 CABLE RACKS & 12 RACK HOOKS. THE CABLE RACKS SHALL BE A MIN. OF 24" & RACK HOOKS SHALL BE A MIN. OF 7" IN LENGTH. THE CABLE RACKS AND RACK HOOKS SHALL BE HOT-DIPPED GALVANIZED STEEL.

- TYPE D AND E PULL BOXES SHALL ONLY BE USED FOR COMMUNICATIONS CONDUIT/CABLING.
- GPS COORDINATES OF EACH PULL BOX WILL BE RECORDED IN THE AS-BUILT PLANS TO BE TURNED IN WITH THIS PROJECT.
- UNUSED CONDUIT SHALL BE STUBBED OUT AND CAPPED TO PRESERVE FOR FUTURE USE.
- CONDUIT SHALL ENTER TYPE "D" AND "E" PULL BOXES THROUGH THE SIDEWALL.
- HOLES ALONG THE SIDEWALLS SHALL BE CUT BY THE CONTRACTOR.
- ALL TYPE D AND E PULL BOXES SHALL HAVE 12" WIDE (MIN.) x 6" DEEP CONCRETE APRON SLOPE AWAY FROM BOX. CONCRETE APRON TO BE INCLUDED IN THE COST OF EACH BOX.



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

TYPE D & E  
PULL BOX  
DETAILS

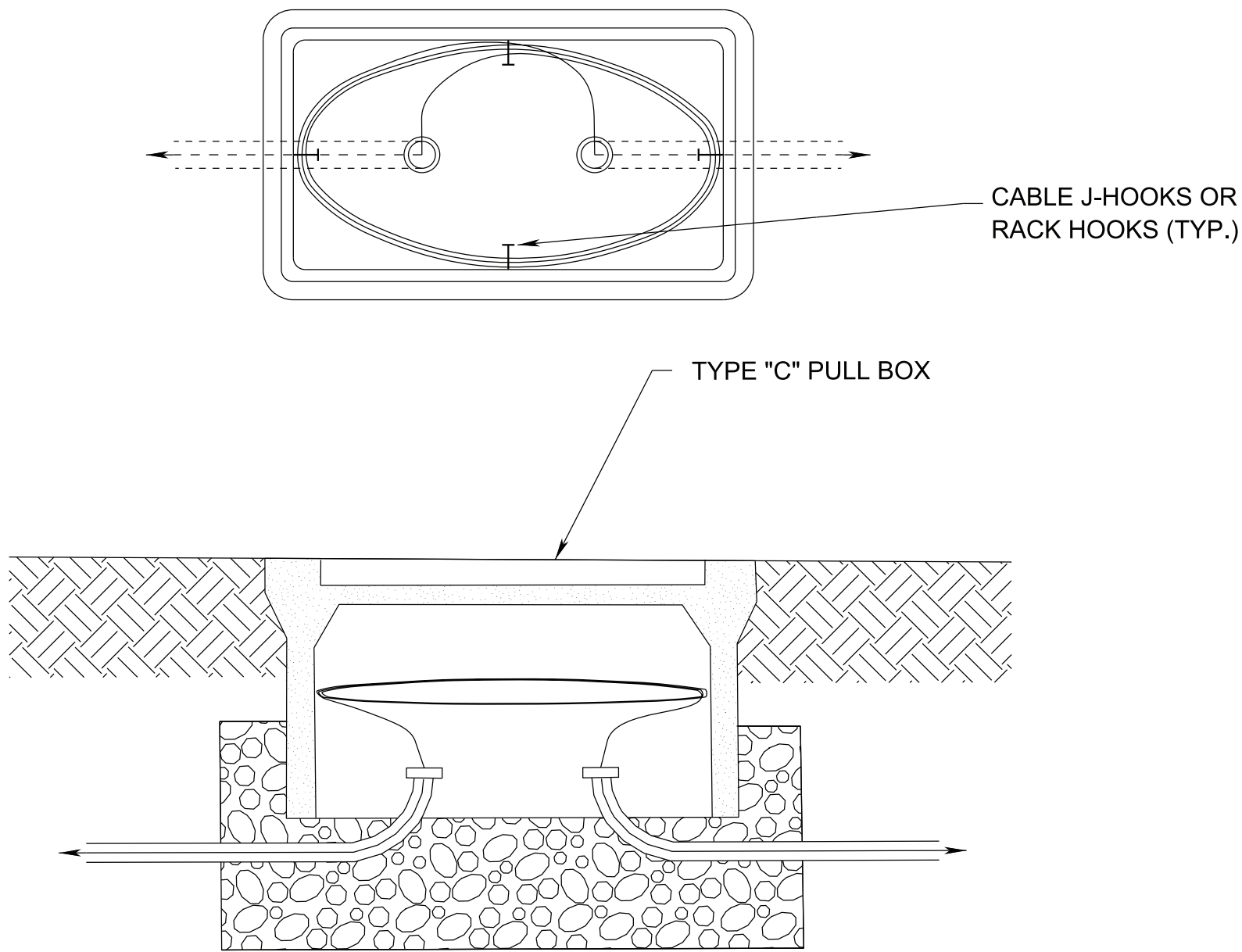


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CABLE TYPE	TYPE "C" PULL BOX	TYPE "D" PULL BOX	TYPE "E" PULL BOX	PAD-MOUNTED CABINET BASE
FIBER OPTIC CABLES (TRUNK)	--	25	200	25
FIBER OPTIC CABLES (BRANCH)	--	25	100	25
ELECTRICAL SERVICE CONDUCTORS	10	--	--	10
RDS CABLE	20	20	20	--
DMS COMM CABLE	--	10	--	10
DMS PWR CABLE	10	--	--	10

NOTE: SEE SP 725 FOR ADDITIONAL INFORMATION

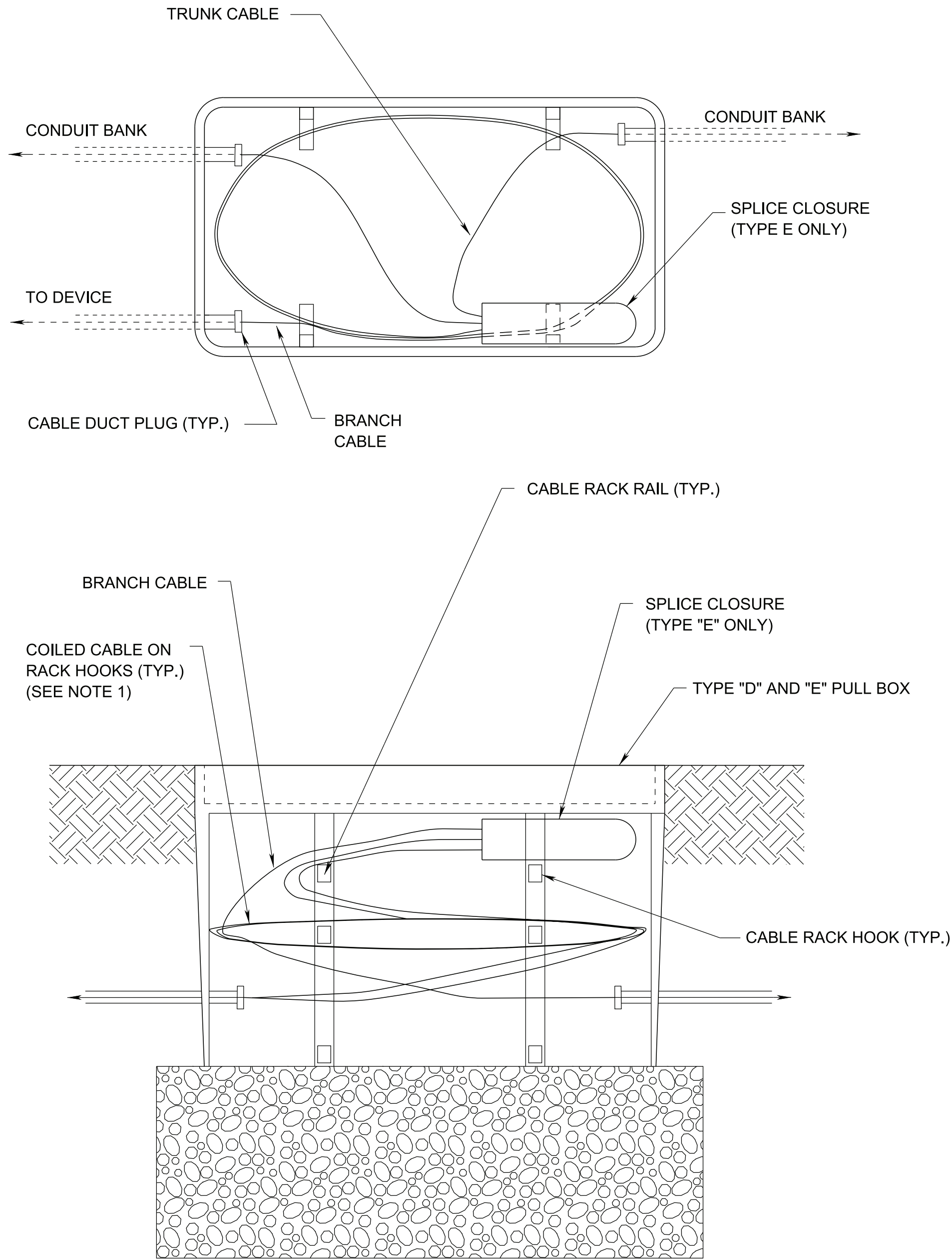
TYPICAL CABLE COIL INSTALLATION GUIDE  
(FEET OF COIL LENGTH PER ENTERING CABLE)



CABLE MANAGEMENT IN TYPE "C" PULL BOX  
N.T.S.

NOTES:

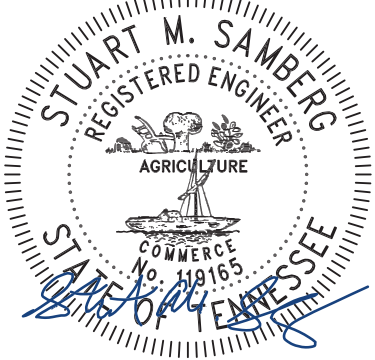
- FIBER TRUNK AND BRANCH CABLES SHALL BE COILED TOGETHER. OTHER DEVICE CABLES SHALL BE COILED SEPARATELY AND SUPPORTED ON J-HOOKS OR RACK HOOKS.
- CONDUIT MAY ENTER THE LONG SIDE OF THE PULL BOX WHEN FIELD CONDITIONS WARRANT.



CABLE MANAGEMENT IN TYPE "D" AND "E" PULL BOX  
N.T.S.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F7
PS&E	2025	99BVAR-F3-024	2F7

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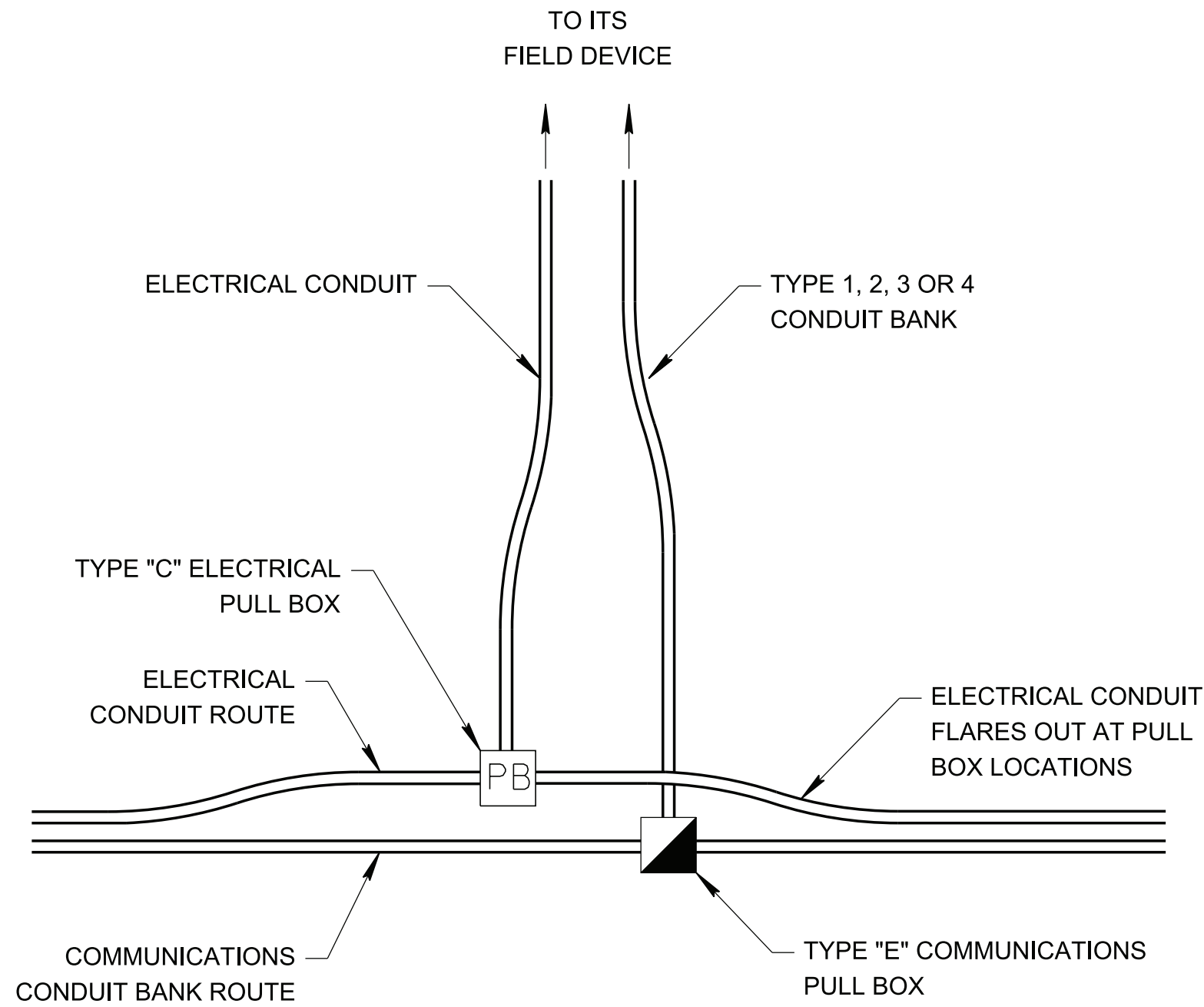
4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

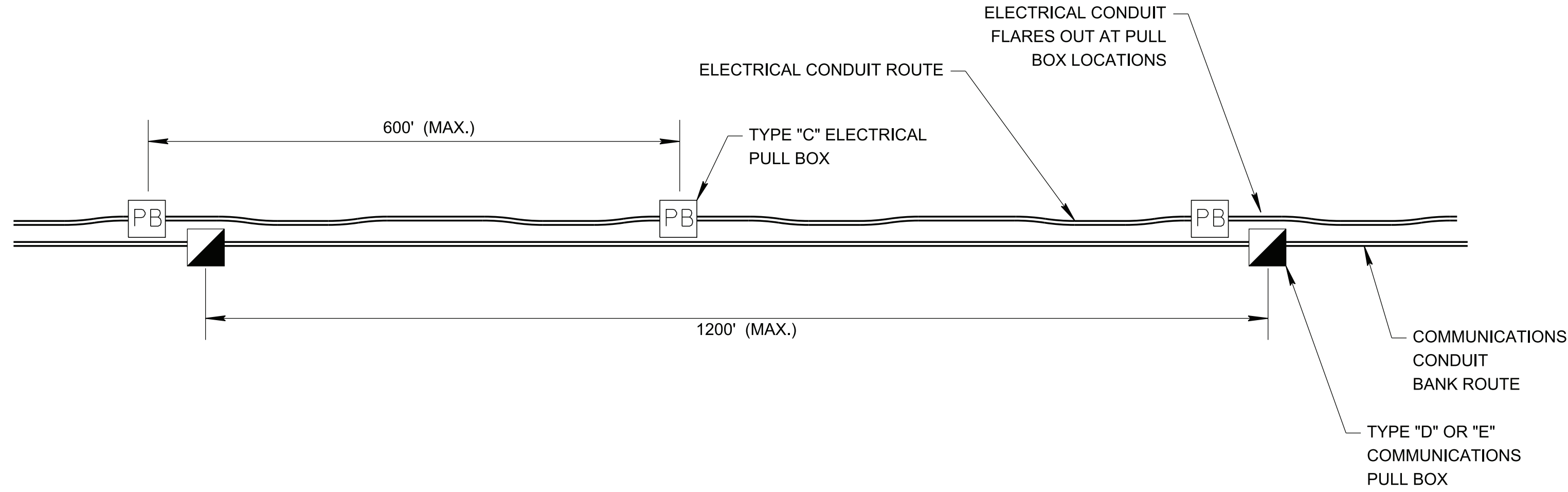
CABLE  
MANAGEMENT  
DETAILS



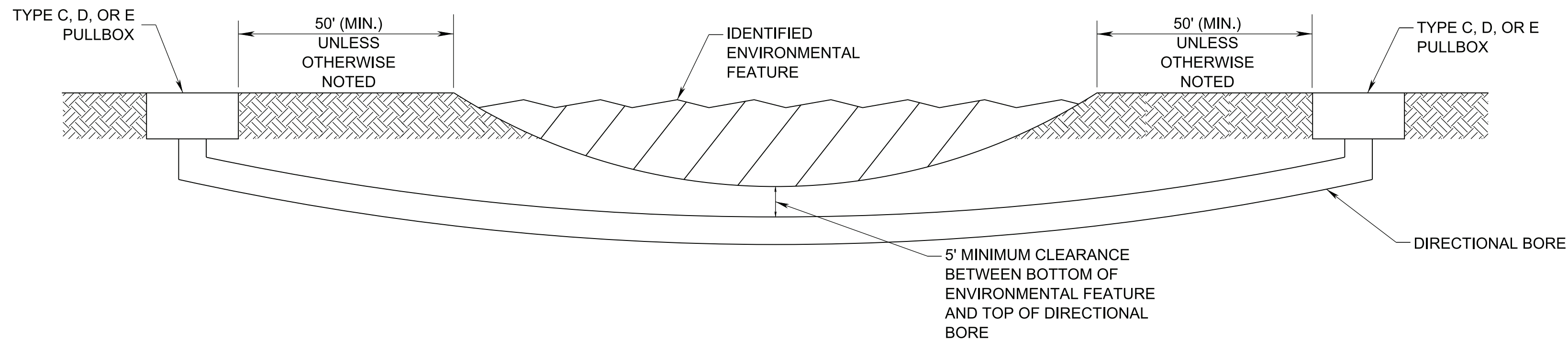
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TYPICAL CONDUIT/PULL BOX PLACEMENT  
AT FIBER OPTIC COMMUNICATION BRANCH  
N.T.S.



TYPICAL CONDUIT/PULL BOX PLACEMENT ALONG  
FIBER OPTIC COMMUNICATIONS TRUNKLINE  
N.T.S.

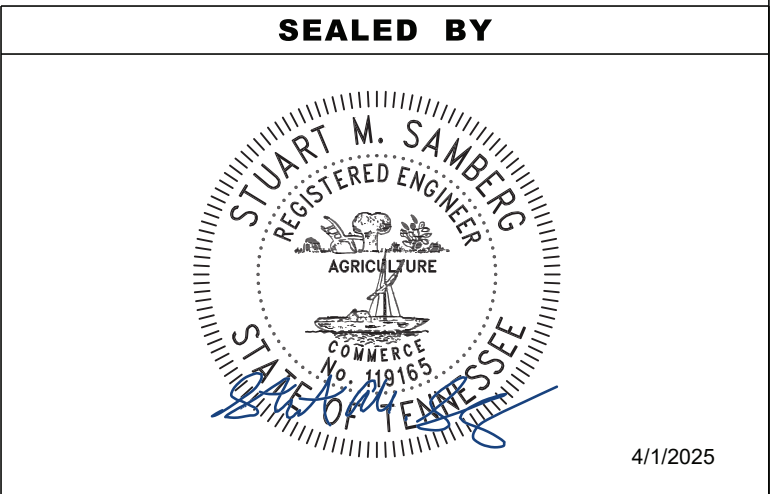


TYPICAL CROSS SECTION OF DIRECTIONAL BORE BELOW  
ENVIROMNETAL FEATURE  
N.T.S.

CONDUIT ROUTING NOTES:

1. COMMUNICATIONS AND ELECTRICAL CONDUIT MAY SHARE THE SAME TRENCH. HOWEVER THEY SHALL NEVER SHARE THE SAME PULL BOXES. SEPARATE PULL BOXES ARE REQUIRED FOR EACH CONDUIT SYSTEM.
2. COMMUNICATIONS AND ELECTRICAL CONDUIT ROUTES MUST FLARE OUT AS SHOWN IN DETAILS ABOVE AT LOCATIONS WHERE PULL BOXES ARE TO BE INSTALLED TO PROVIDE SUFFICIENT ROOM FOR PULL BOX CONSTRUCTION.
3. THE SPACING BETWEEN PULL BOXES SHALL BE 500 FT MAXIMUM FOR ELECTRICAL CONDUIT ROUTES AND 1200' MAXIMUM FOR THE COMMUNICATIONS TRUNKLINE (AS DEPICTED ON THE ITS LAYOUT SHEETS).

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F8
PS&E	2025	99BVAR-F3-024	2F8

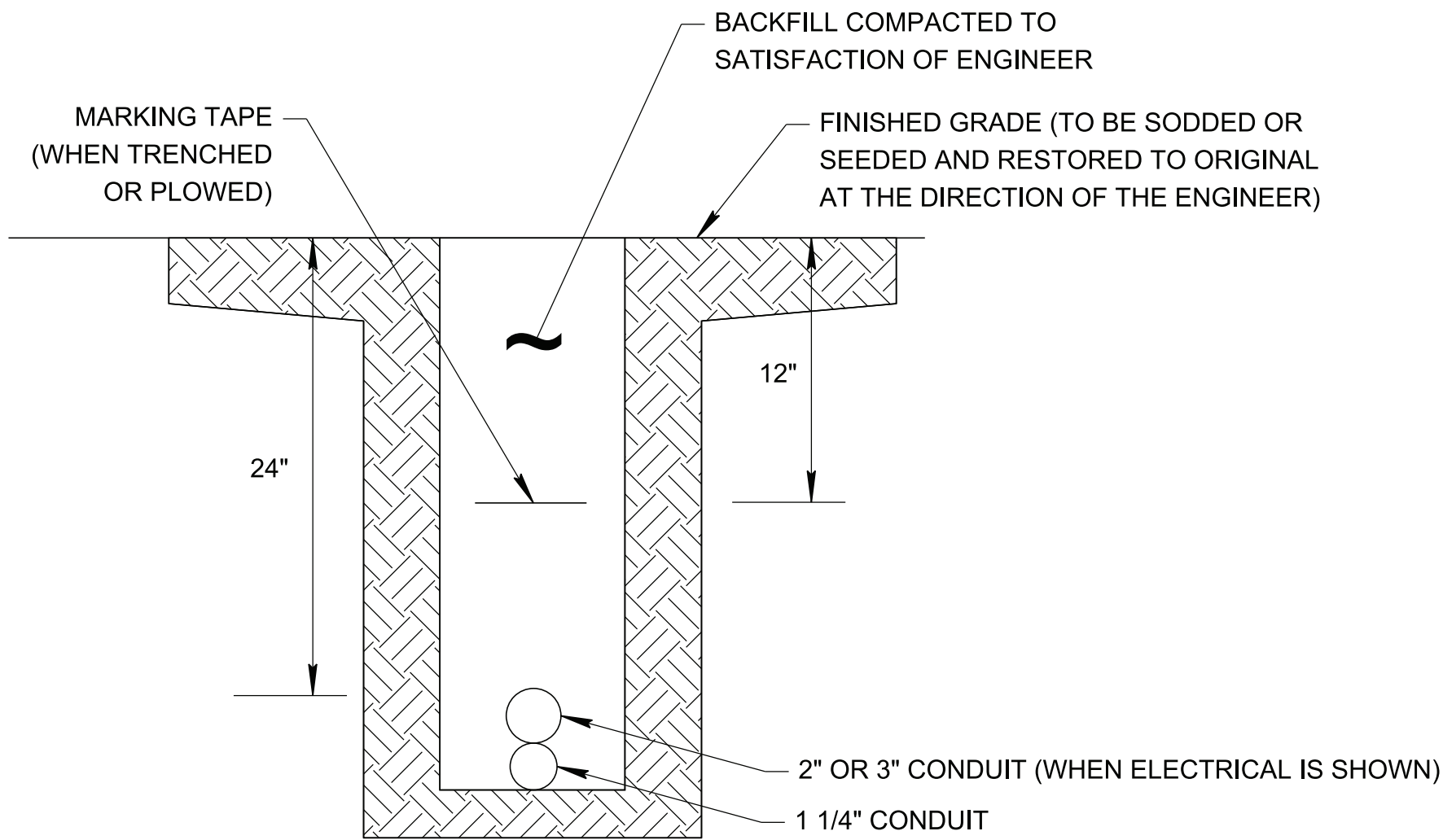


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

TYPICAL CONDUIT,  
TRENCHING, AND  
BORING DETAILS



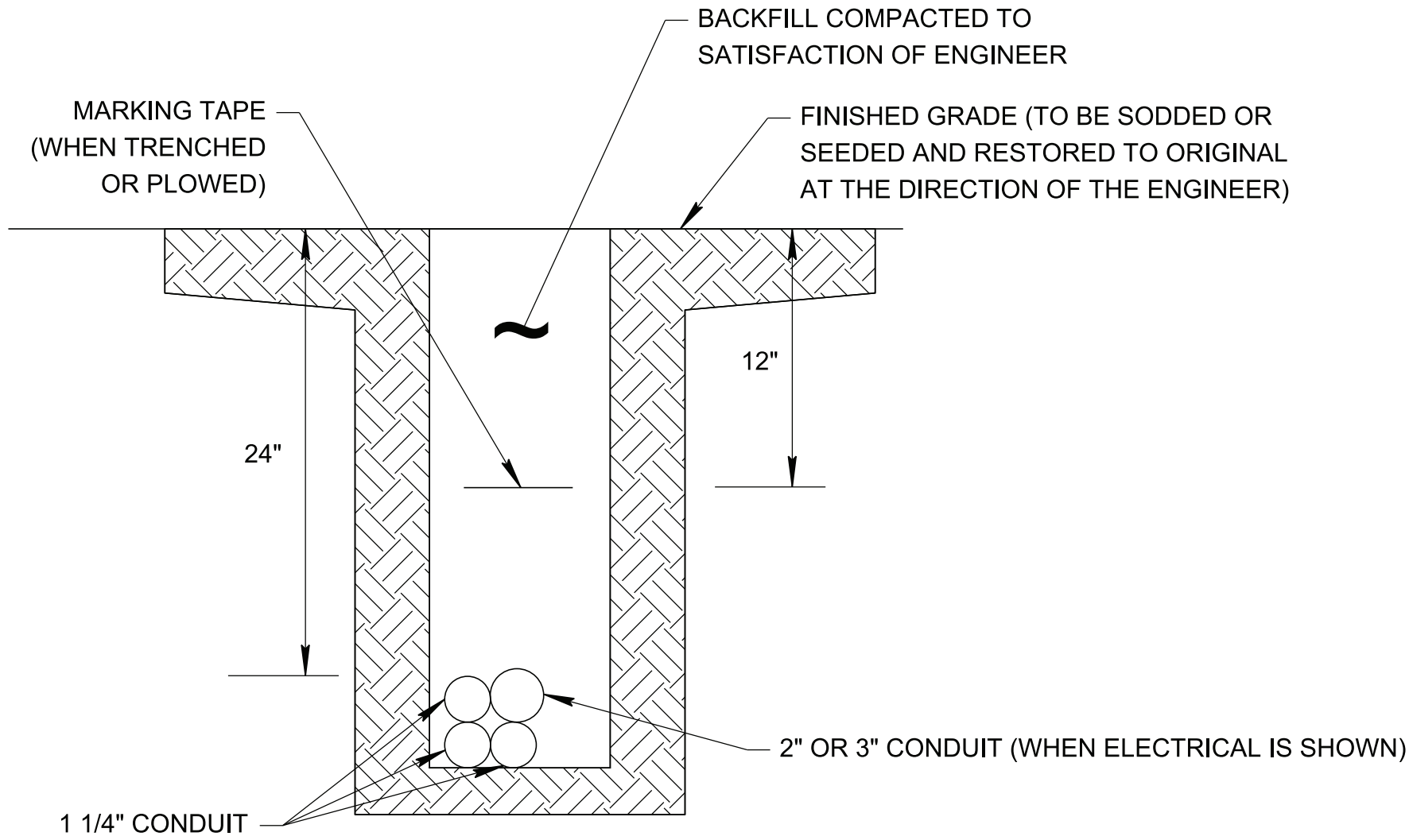
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CONDUIT BANK TYPE 1

N.T.S.

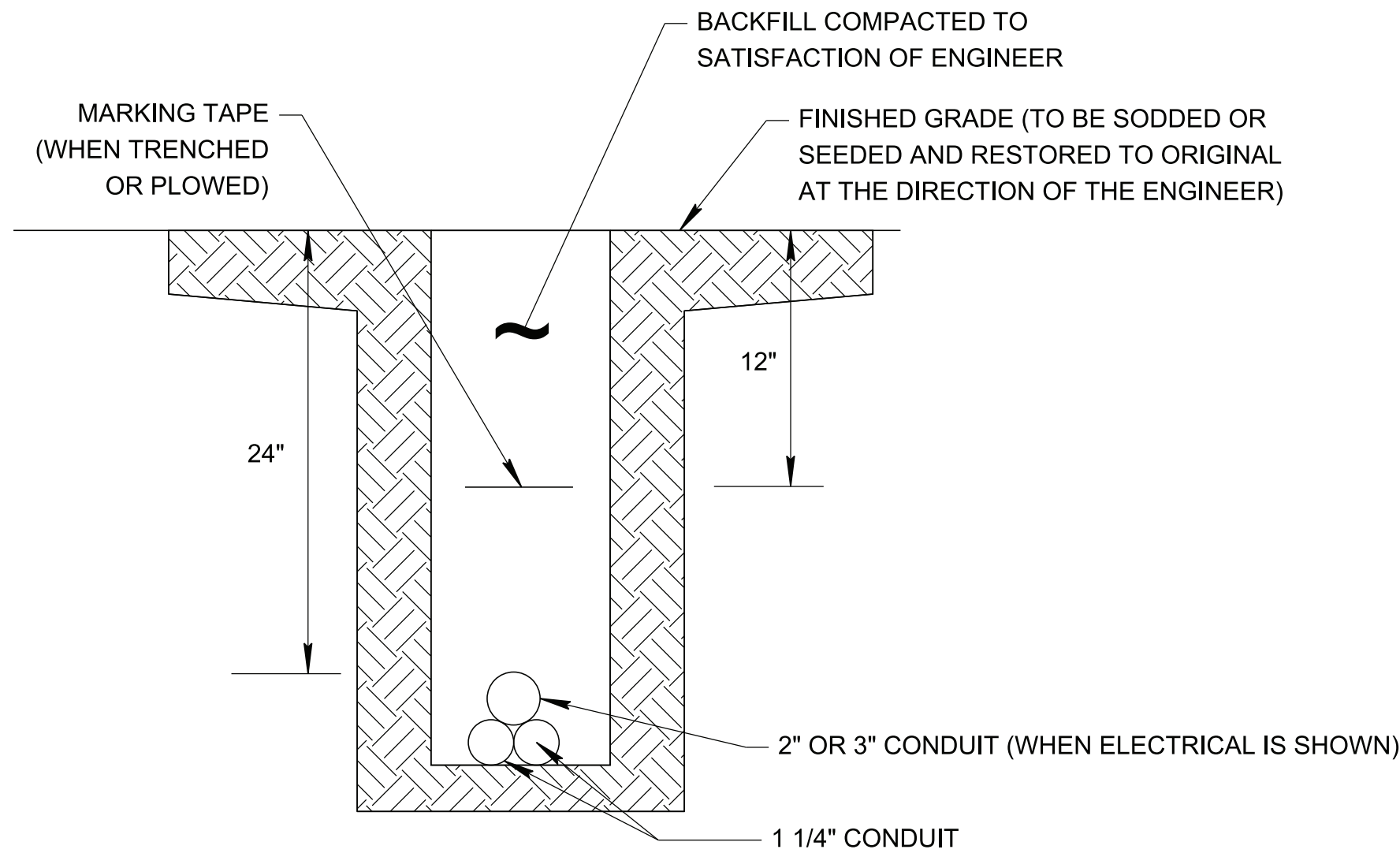
ONE 1 1/4" COMMUNICATIONS CONDUIT WITH  
OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT  
WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 3

N.T.S.

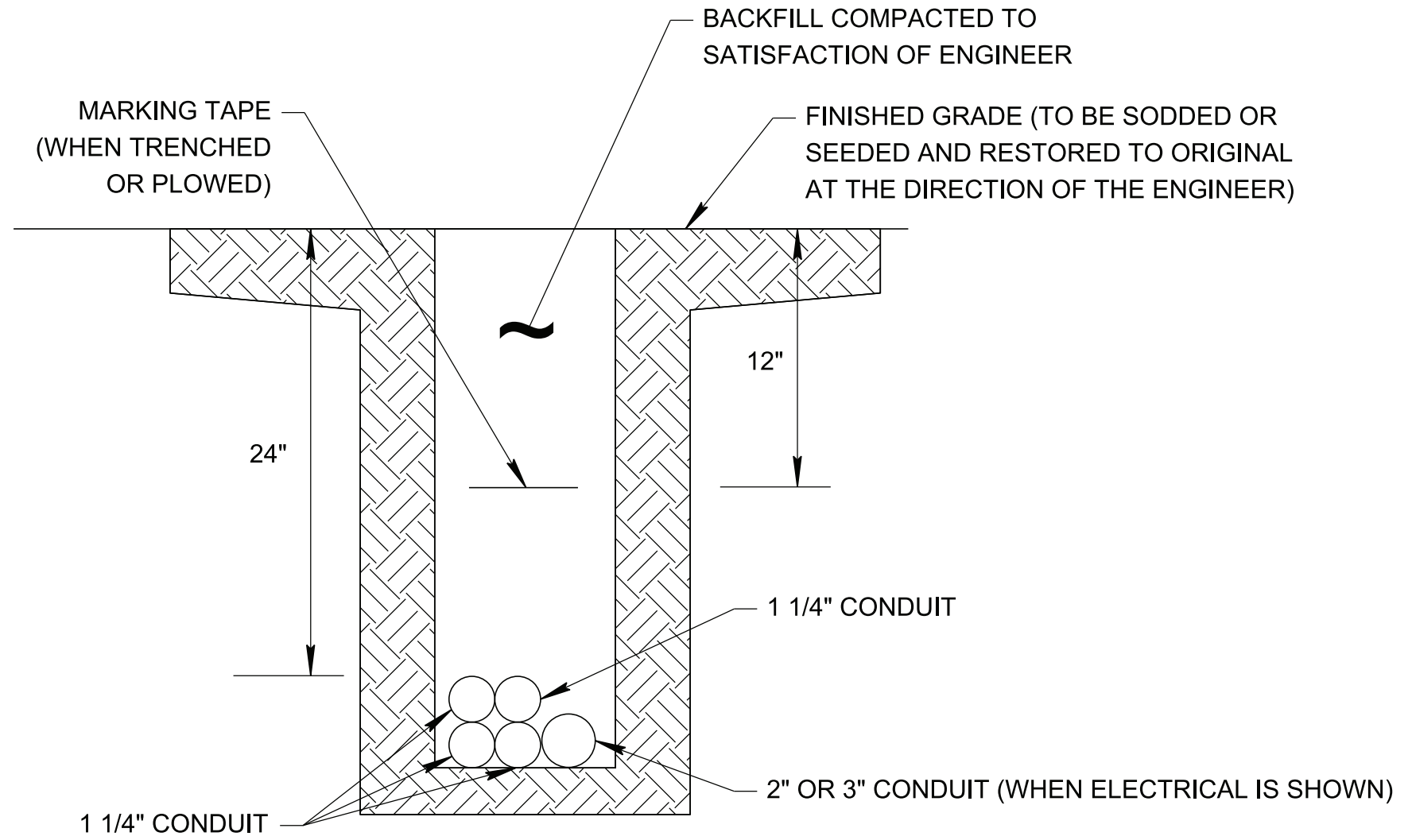
THREE 1 1/4" COMMUNICATIONS CONDUIT WITH  
OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT  
WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 2

N.T.S.

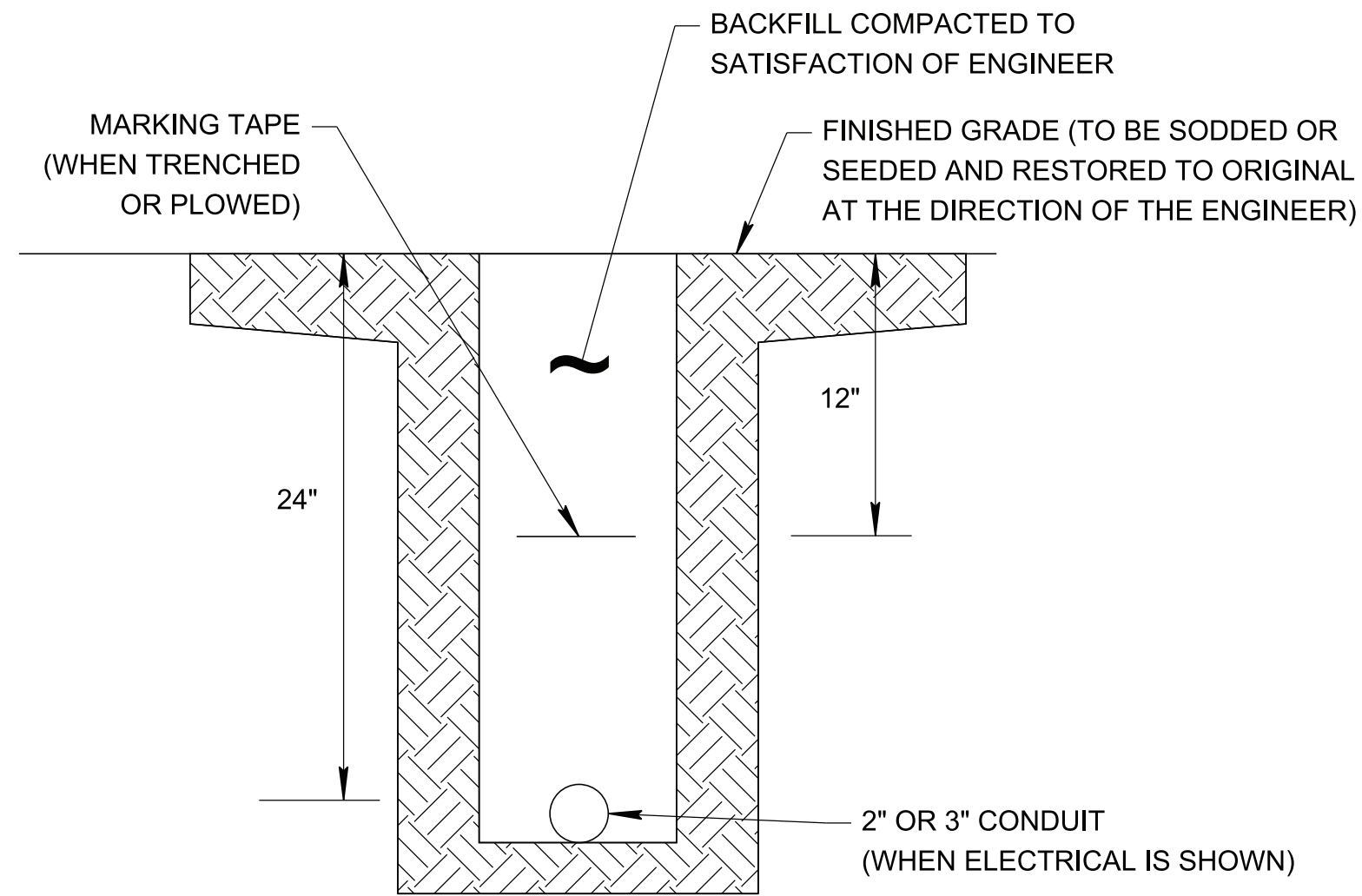
TWO 1 1/4" COMMUNICATIONS CONDUIT WITH  
OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT  
WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 4

N.T.S.

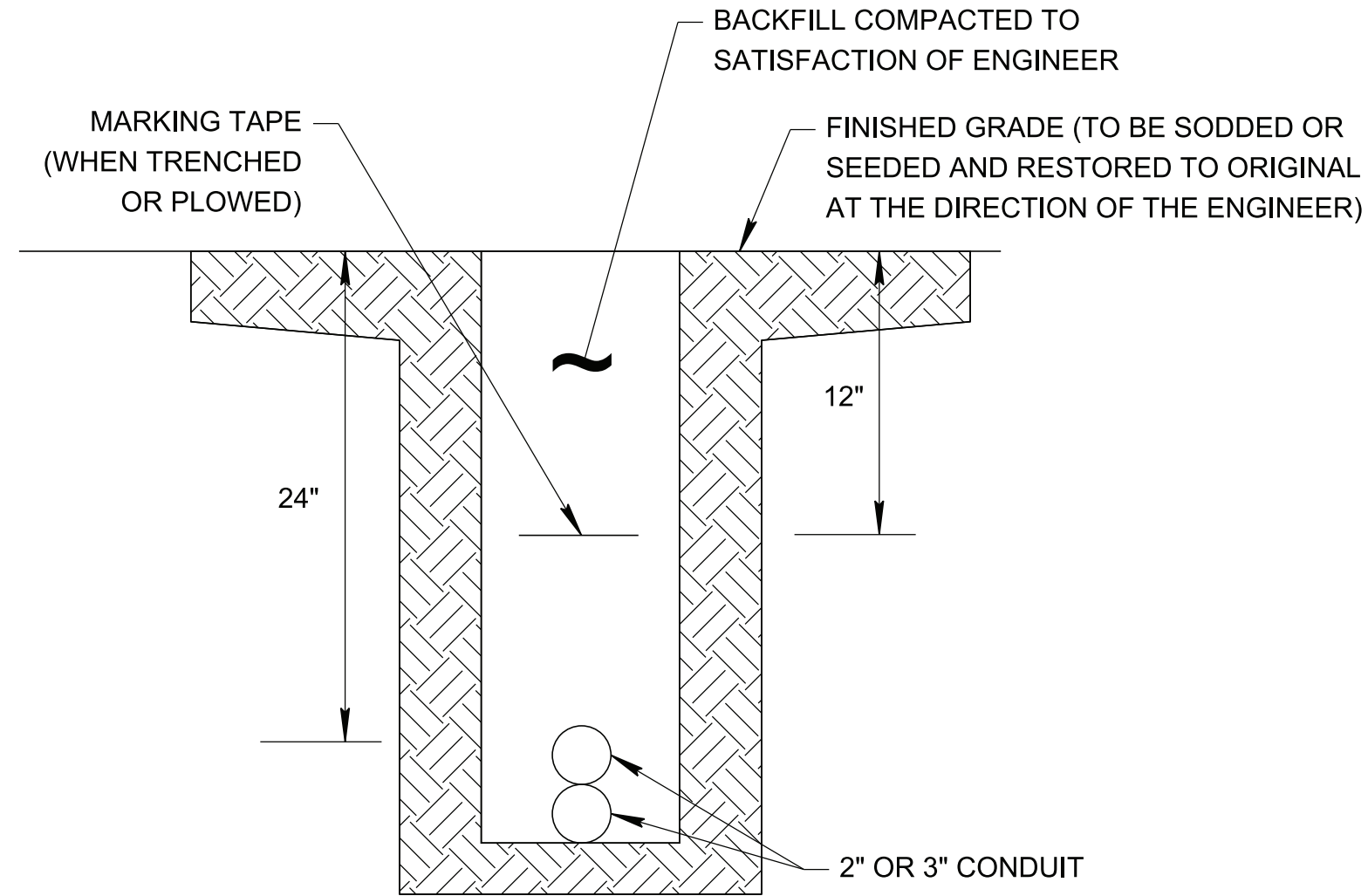
FOUR 1 1/4" COMMUNICATIONS CONDUIT WITH  
OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT  
WHICH IS PAID SEPARATELY



2" OR 3" CONDUIT

N.T.S.

ONE 2" OR 3" CONDUIT



MULTIPLE 2" OR 3" CONDUITS

N.T.S.

TWO 2" OR 3" CONDUITS

### CONDUIT COLORS

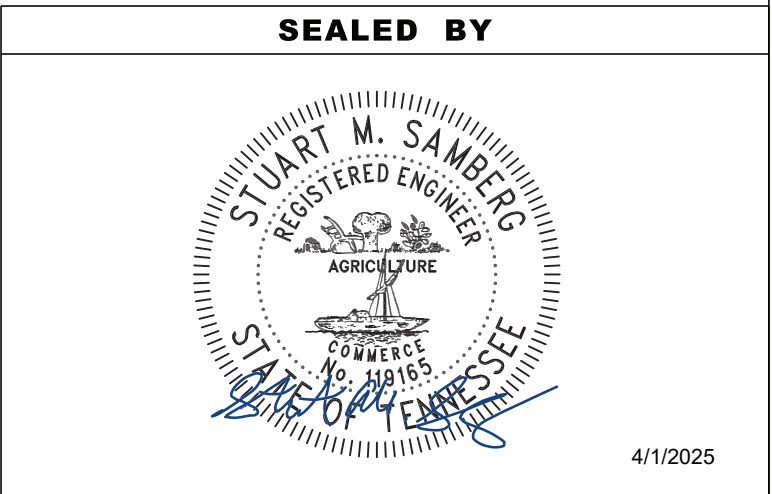
ALL CONDUIT USED ON THIS PROJECT SHALL CONFORM  
TO THE COLOR SCHEME AND USE DESCRIBED BELOW:

- A. CONDUIT BANK TYPE 1:
  - GREEN DROP FIBER AND/OR RDS CABLE
- B. CONDUIT BANK TYPE 2:
  - GREEN DROP FIBER AND/OR RDS CABLE
  - WHITE RDS CABLE SECOND DROP FIBER OR SPARE
- C. CONDUIT BANK TYPE 3:
  - GREEN DROP FIBER AND/OR RDS CABLE
  - BLUE RDS CABLE OR SECOND DROP FIBER
  - WHITE SECOND RDS CABLE OR SPARE
- D. CONDUIT BANK TYPE 4:
  - ORANGE TRUNK FIBER CABLE
  - BLUE RDS CABLE OR DROP FIBER
  - WHITE SPARE OR SECOND RDS CABLE
  - BROWN SPARE
- E. 2" OR 3" ELECTRICAL CONDUIT:
  - GREY ELECTRICAL WIRE

### NOTES:

- 1. DETAILS FOR CONDUIT BANKS APPEAR AS TRENCHED INSTALLATION FOR GRAPHICAL PURPOSES ONLY. AS DESCRIBED IN TSP 725, CONDUIT BANKS IN EARTH MAY BE TRENCHED, PLOWED, BORED, OR DRILLED.
- 2. ELECTRICAL AND COMMUNICATIONS CONDUIT SIZES VARY THROUGHOUT THE PROJECT. REFER TO THE CONDUIT AND CABLE SCHEDULES SHOWN ON EACH ITS LAYOUT SHEET FOR INDIVIDUAL CONDUIT SIZES.
- 3. WARNING TAPE SHALL BE LABELED "WARNING - ELECTRICAL/FIBER OPTIC CABLE BELOW."
- 4. IF A DRAINAGE OR UTILITY CONFLICT ARISES THE CONTRACTOR SHALL SUBMIT A PLAN FOR RESOLVING THE CONFLICT TO THE ENGINEER FOR REVIEW AND APPROVAL.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F9
PS&E	2025	99BVAR-F3-024	2F9



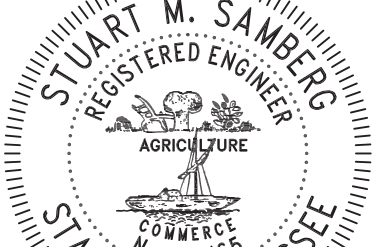
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

TYPICAL CONDUIT,  
TRENCHING, AND  
BORING DETAILS

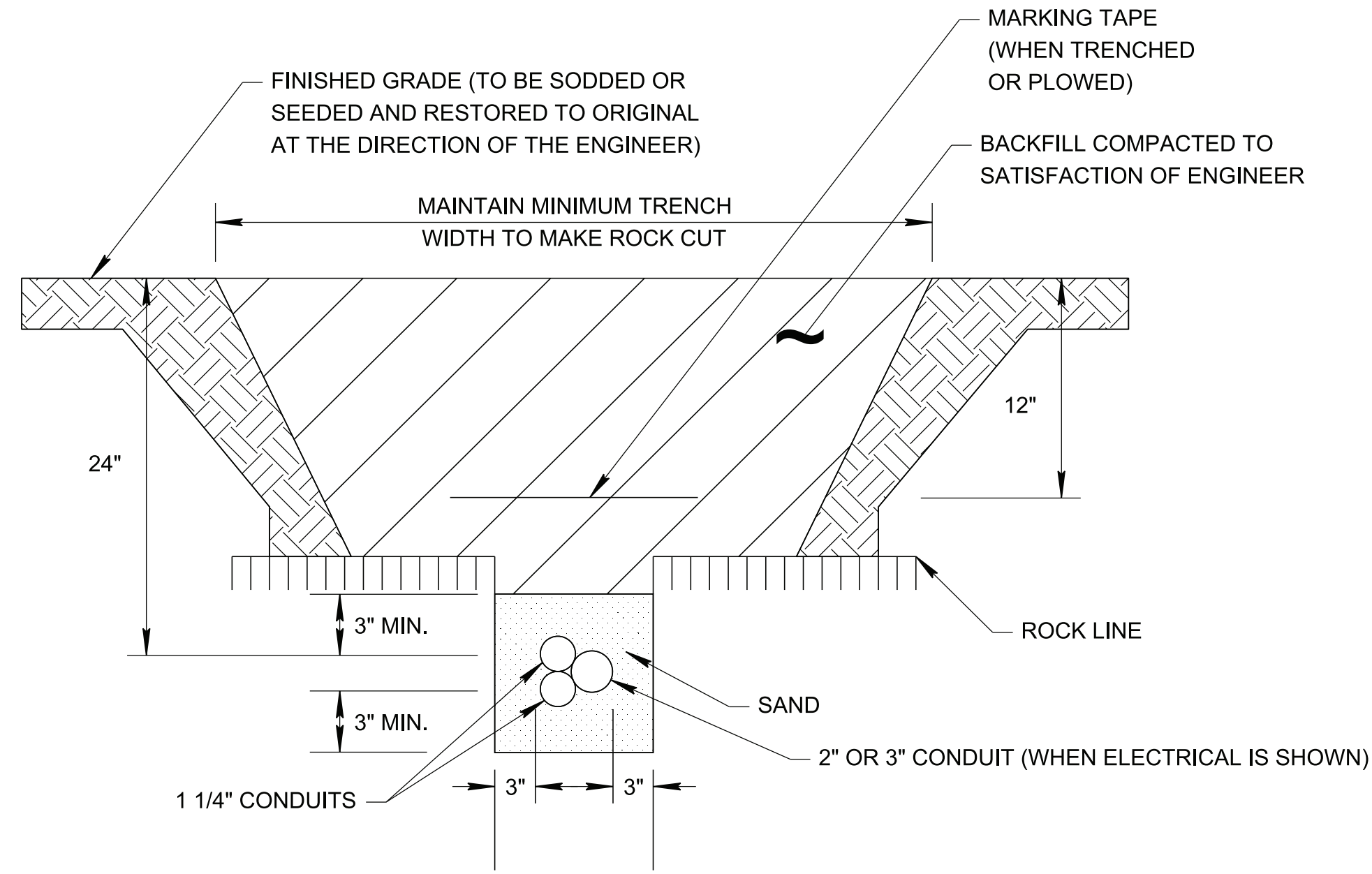


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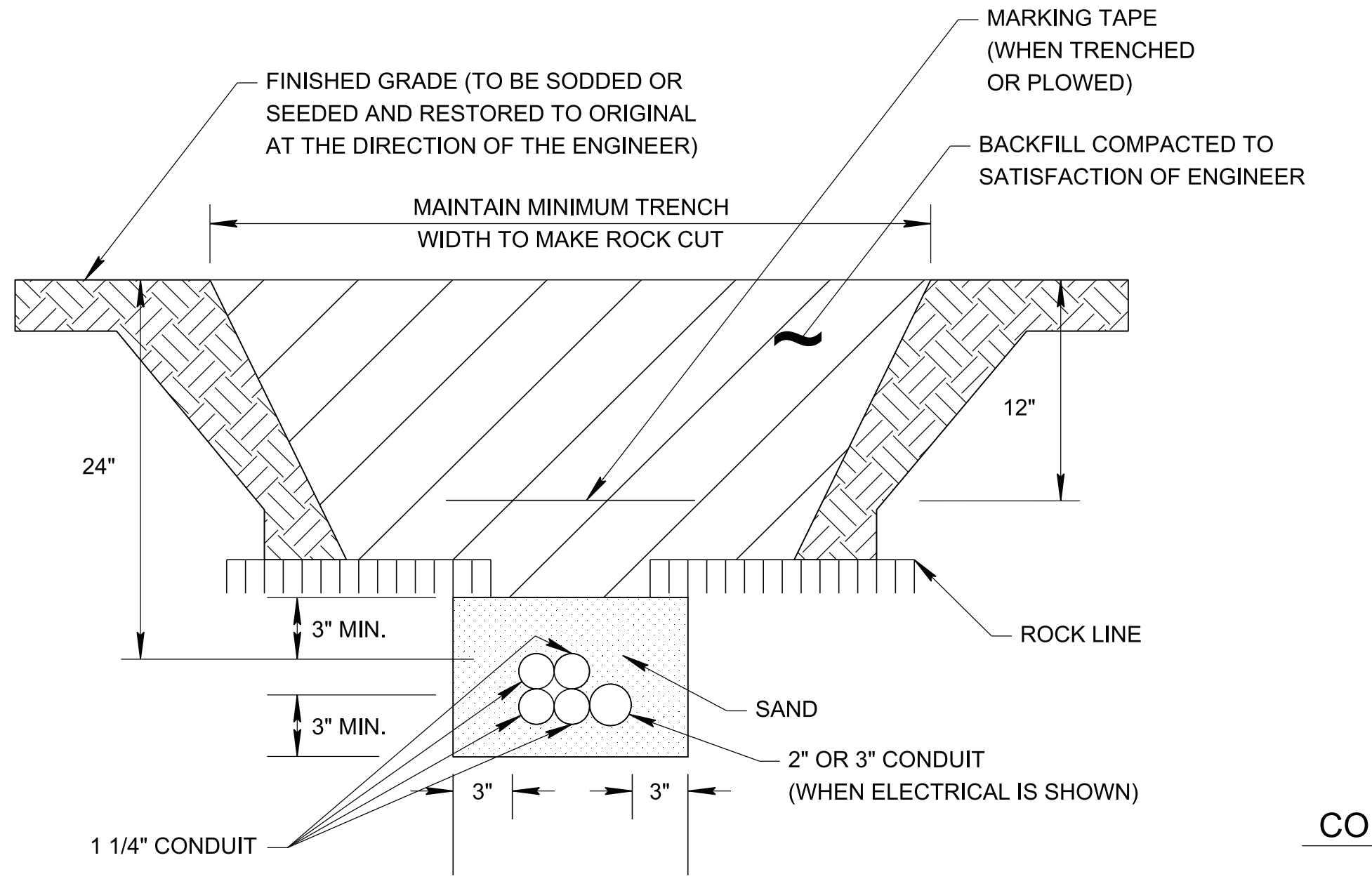
4/1/2025



## CONDUIT BANK TYPE 2 IN ROCK

N.T.S.

TWO 1 1/4" COMMUNICATIONS CONDUIT WITH  
OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT  
WHICH IS PAID SEPARATELY



### CONDUIT BANK TYPE 4 IN ROCK

N.T.S.

FOUR 1 1/4" COMMUNICATIONS CONDUIT WITH  
OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT  
WHICH IS PAID SEPARATELY

## CONDUIT COLORS

ALL CONDUIT USED ON THIS PROJECT SHALL CONFORM  
TO THE COLOR SCHEME AND USE DESCRIBED BELOW:

- A. CONDUIT BANK TYPE 1:
  - GREEN DROP FIBER AND/OR RDS CABLE
- B. CONDUIT BANK TYPE 2:
  - GREEN DROP FIBER AND/OR RDS CABLE
  - WHITE RDS CABLE SECOND DROP FIBER OR SPARE
- C. CONDUIT BANK TYPE 3:
  - GREEN DROP FIBER AND/OR RDS CABLE
  - BLUE RDS CABLE OR SECOND DROP FIBER
  - WHITE SECOND RDS CABLE OR SPARE
- D. CONDUIT BANK TYPE 4:
  - ORANGE TRUNK FIBER CABLE
  - BLUE RDS CABLE OR DROP FIBER
  - WHITE SPARE OR SECOND RDS CABLE
  - BROWN SPARE
- E. 2" OR 3" ELECTRICAL CONDUIT:
  - GREY ELECTRICAL WIRE

NOTES:

1. ROCK LINE WILL VARY. ROCK EXCAVATION TO BE INCLUDED IN CONDUIT BANK.
2. WHERE ROCK IS FOUND TRENCH MUST CONTAIN MINIMUM 3" SAND COVER OVER CONDUIT THEN 9" BACK FILL WITH SOIL FREE OF ROCKS OR OTHER FOREIGN MATTER. THE REMAINDER OF THE TRENCH MAY BE BACK-FILLED WITH EXISTING MATERIAL REMOVED FROM THE TRENCH PROVIDED NO STONES ARE GREATER THAN #2 STONE.
3. ELECTRICAL AND COMMUNICATIONS CONDUIT SIZES VARY THROUGHOUT THE PROJECT. REFER TO THE CONDUIT AND CABLE SCHEDULES SHOWN ON EACH ITS LAYOUT SHEET FOR INDIVIDUAL CONDUIT SIZES.
4. WARNING TAPE SHALL BE LABELED "WARNING - ELECTRICAL/FIBER OPTIC CABLE BELOW."
5. IF A DRAINAGE OR UTILITY CONFLICT ARISES THE CONTRACTOR SHALL SUBMIT A PLAN FOR RESOLVING THE CONFLICT TO THE ENGINEER FOR REVIEW AND APPROVAL.

**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

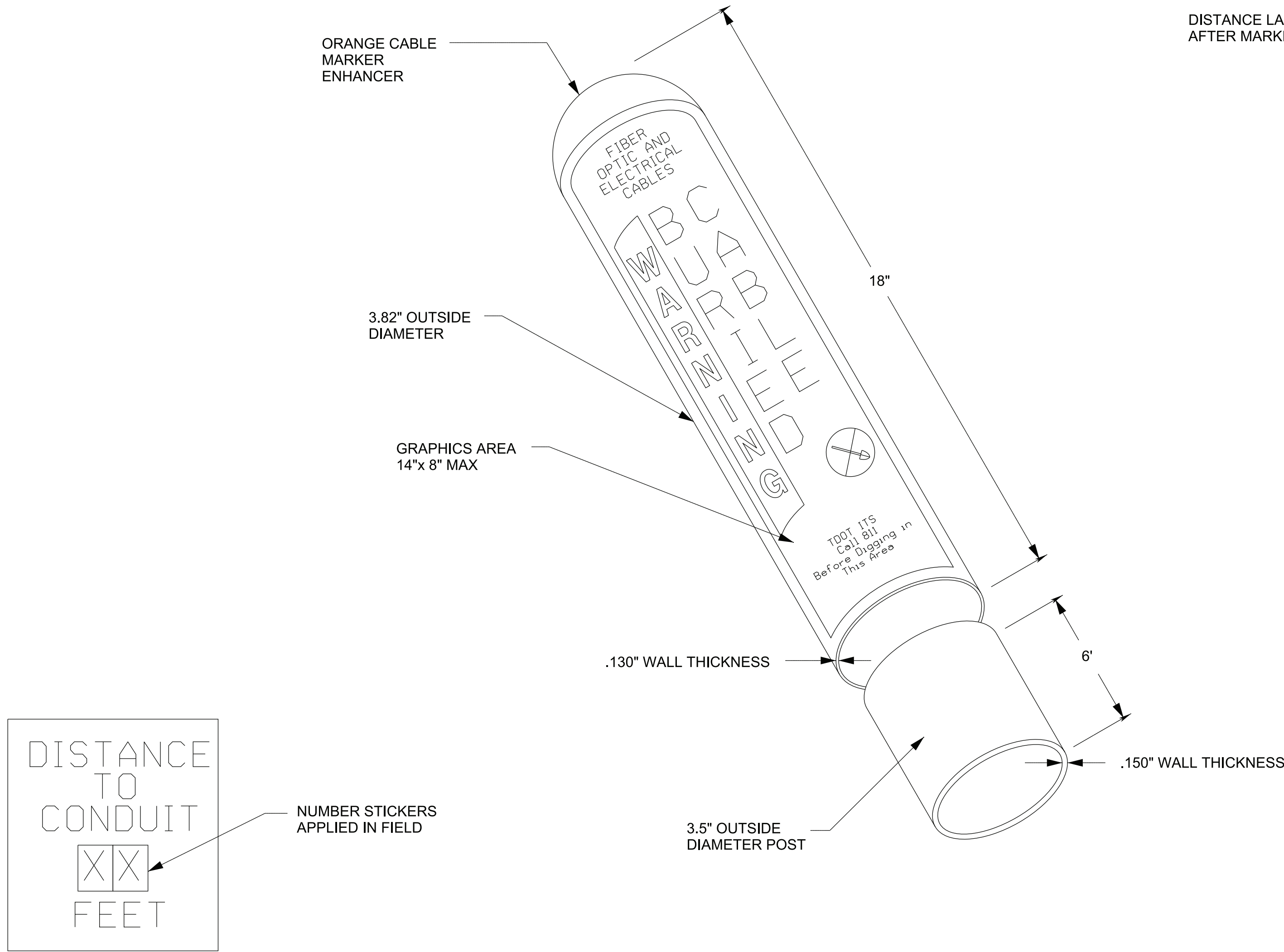
## TYPICAL CONDUIT AND TRENCHING DETAILS

4/1/2025



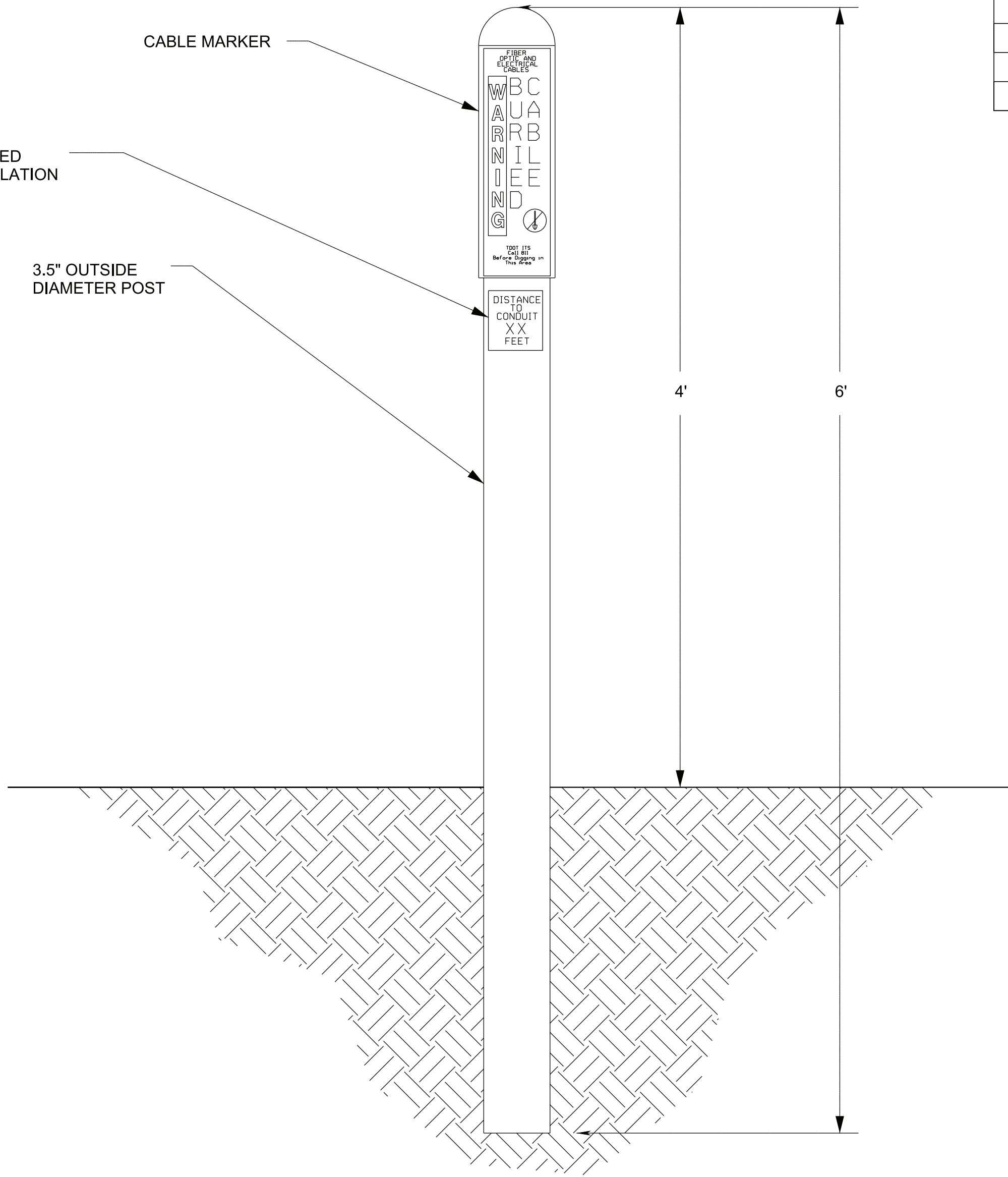
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F11
PS&E	2025	99BVAR-F3-024	2F11



PRE PRINTED DISTANCE LABEL  
N.T.S.

DETAIL VIEW OF CABLE MARKER  
N.T.S.

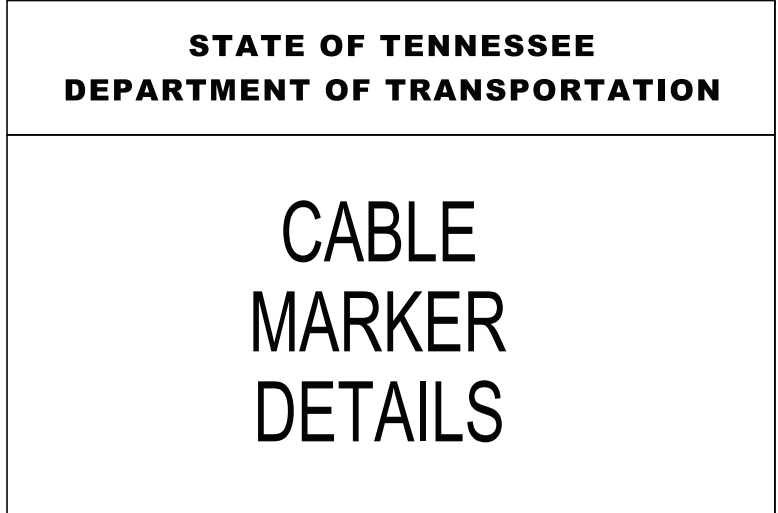
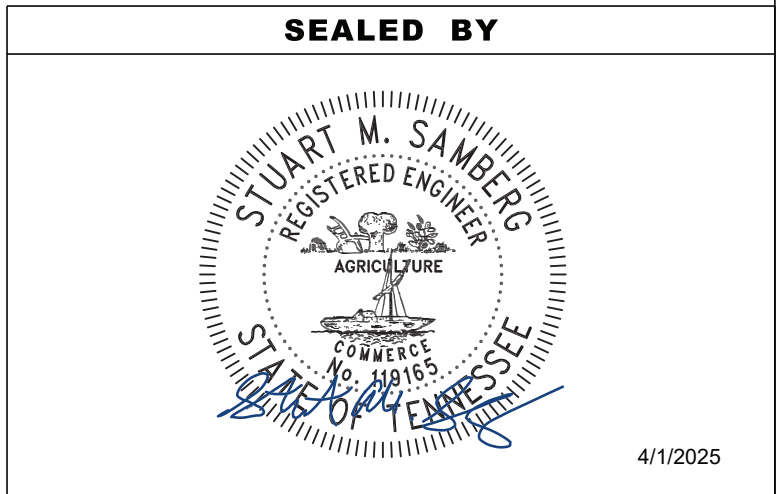


TYPICAL INSTALLATION OF CABLE MARKER  
N.T.S.

NOTES:

1. THE CONTRACTOR SHALL USE 811 FOR THE NUMBER TO INCLUDE ON THE CABLE MARKER LABEL PRIOR TO FABRICATION.
2. ALL CABLE MARKER LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THE PROPOSED SCHEDULE FOR INSTALLING THE CABLE MARKERS SHALL ALSO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. AFTER THE CABLE MARKERS ARE INSTALLED, THE DISTANCE TO CONDUIT LABELS SHALL BE APPLIED.

4. INSTALL CABLE MARKERS AT THE FOLLOWING LOCATIONS:
  - A. WITHIN 30 FEET LATERALLY EVEN WITH EACH PULL BOX, OR ADJACENT PULL BOXES, ON CONDUIT RUNS PARALLEL TO THE ROADWAY. IF DISTANCE BETWEEN PULL BOXES IS GREATER THAN 650 FEET, ONE ADDITIONAL CABLE MARKER SHALL BE PLACED AT THE MIDPOINT BETWEEN THE ADJACENT PULL BOXES, WITH 30 FEET LATERALLY OF THE CONDUIT ROUTE. ADDITIONAL CABLE MARKERS SHALL BE PLACED SUCH THAT NO DISTANCE BETWEEN CABLE MARKERS SHALL BE GREATER THAN 650 FEET.
  - B. DIRECTLY BESIDE ANY PULL BOX THAT IS ON THE INTERIOR OF AN INTERCHANGE.
  - C. AT EACH END OF ANY BORE UNDER A ROADWAY, DIRECTLY BESIDE THE PULL BOXES.
  - D. ANY ADDITIONAL LOCATIONS DIRECTED BY THE ENGINEER.

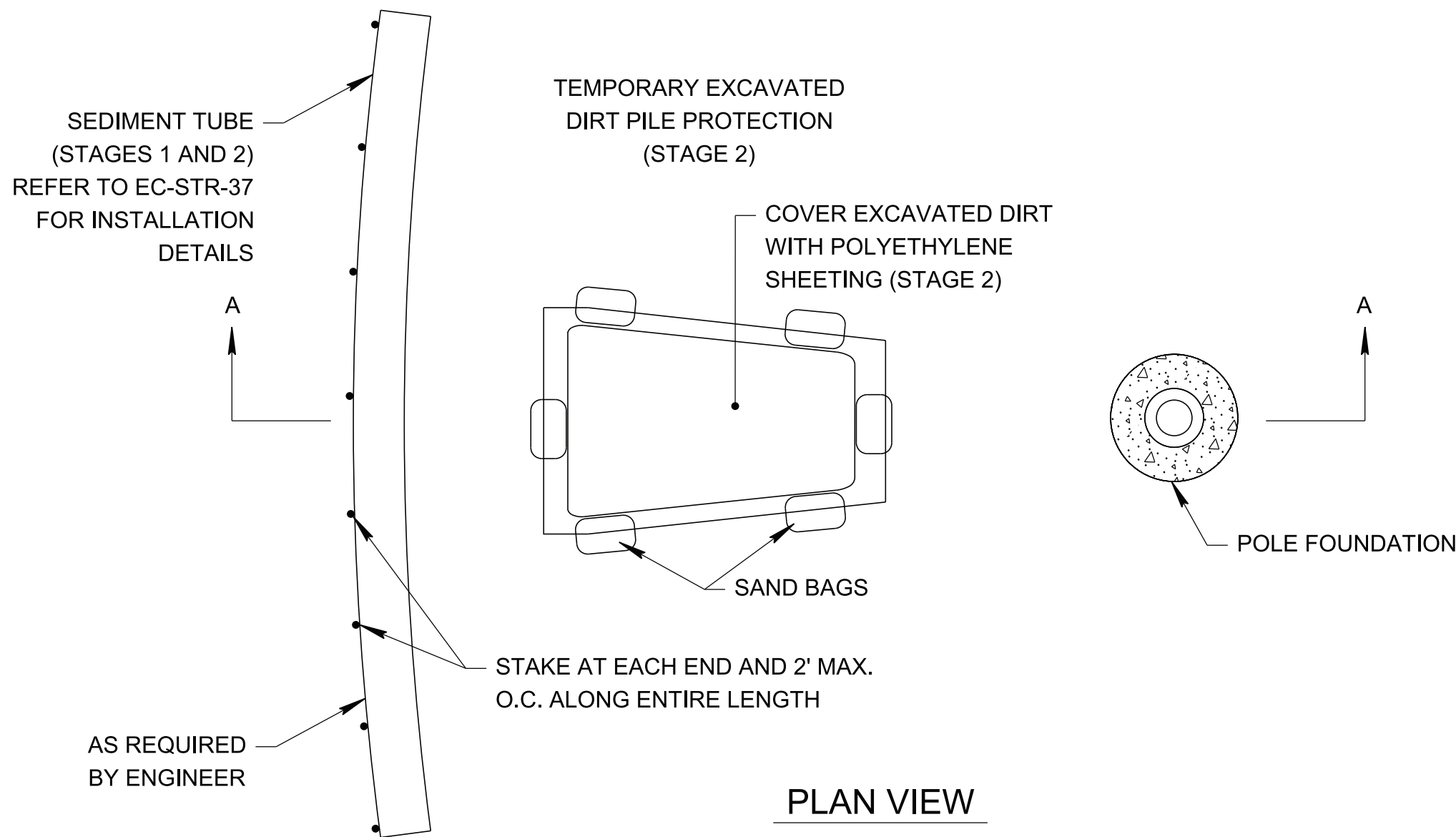




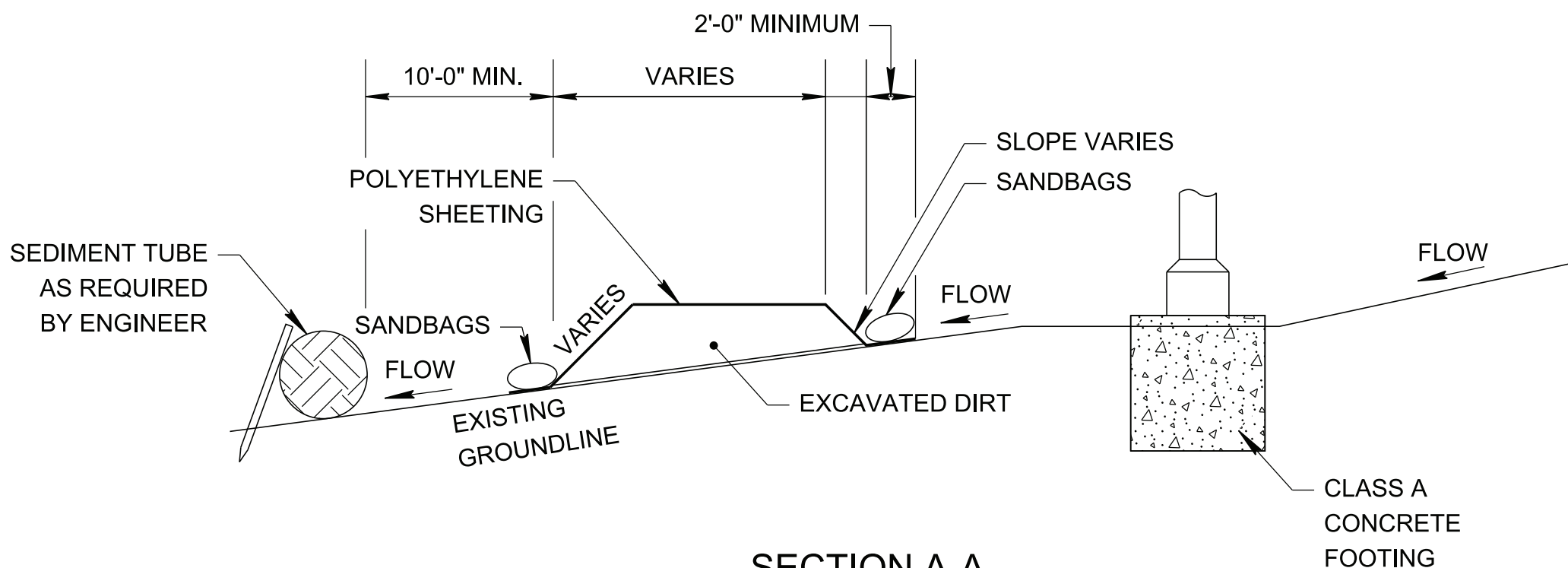
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F12
PS&E	2025	99BVAR-F3-024	2F12

POLE OR SIGN FOUNDATION EROSION CONTROL



PLAN VIEW



SECTION A-A

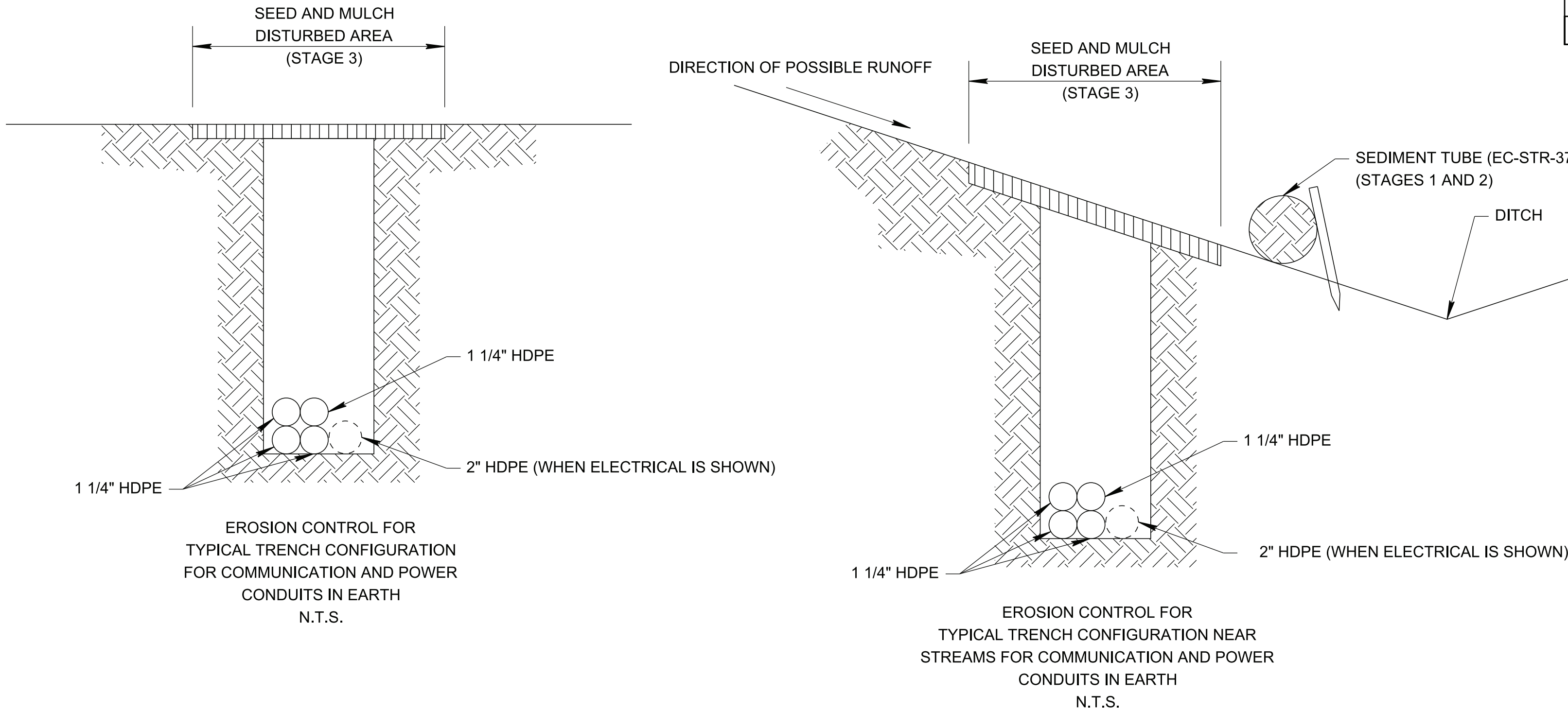
APPROXIMATE QUANTITIES (PER EACH POLE)			
ITEM NO.	DESCRIPTION	TOTAL	UNIT
209-09.01	SANDBAGS	6	BAG
209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	25	S.Y.
740-11.02	TEMPORARY SEDIMENT TUBE 12 IN	30	L.F.

APPROXIMATE QUANTITIES (PER EACH DMS SIGN FOUNDATION)			
ITEM NO.	DESCRIPTION	TOTAL	UNIT
209-09.01	SANDBAGS	6	BAG
209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	89	S.Y.
740-11.02	TEMPORARY SEDIMENT TUBE 12 IN	30	L.F.

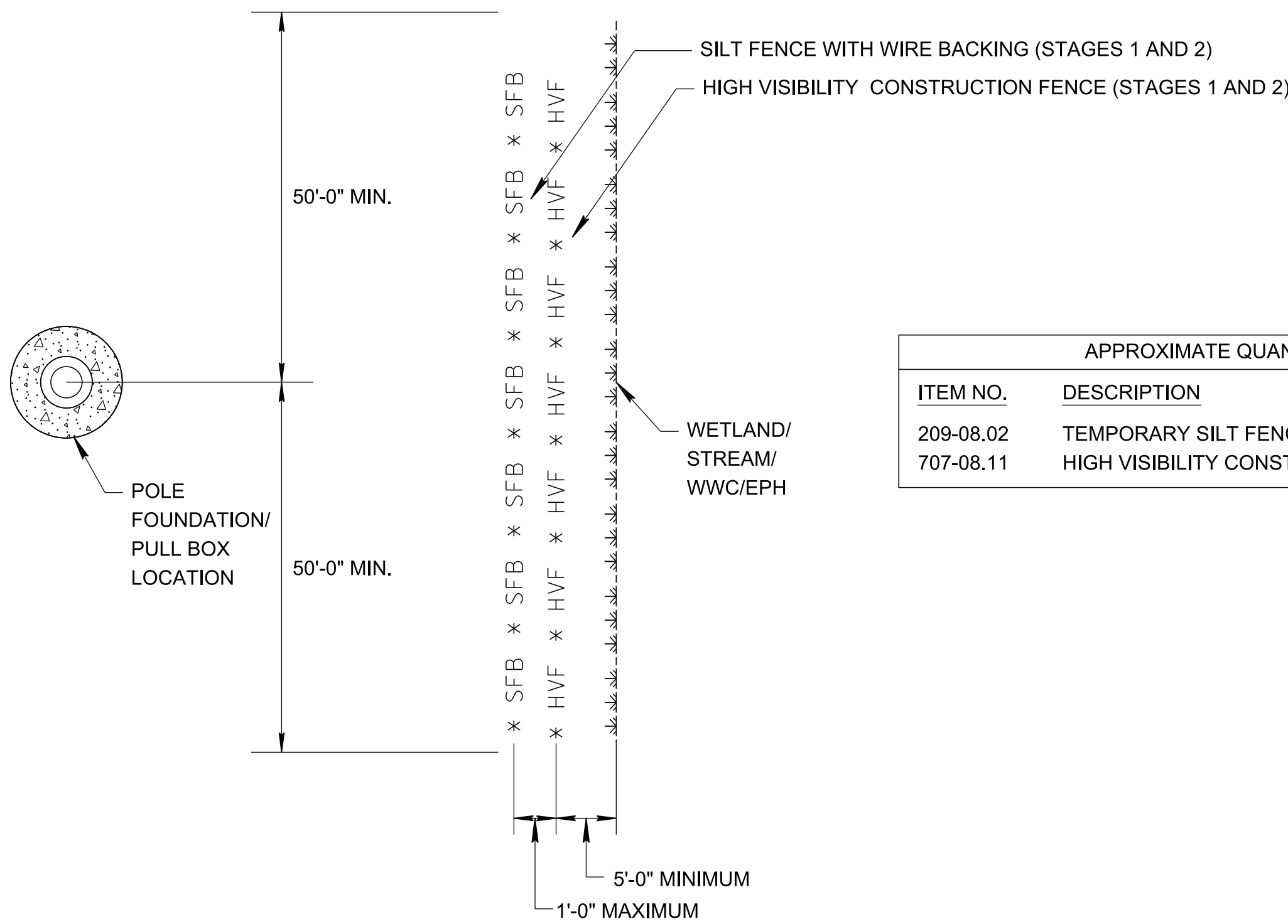
NOTES:

- EROSION CONTROL DEVICES SHALL BE PLACED IMMEDIATELY AFTER AREA IS DISTURBED AND SHALL REMAIN IN PLACE UNTIL LOCATION IS COVERED WITH SEED AND MULCH.
- THESE TYPICAL DETAILS WILL BE USED AT THE DISCRETION OF THE ENGINEER BASED ON THE LOCATION AND DURATION OF THE DISTURBED AREAS. IF THE FOUNDATION IS IN A LOCATION WHERE RUNOFF IS NOT AN ISSUE, THE LOCATION MAY NOT REQUIRE THE USE OF THESE TEMPORARY EROSION CONTROL MEASURES, BUT WILL STILL REQUIRE PERMANENT SEED AND MULCH.
- EXCAVATED DIRT THAT IS NOT NEEDED FOR BACKFILL SHALL BE REMOVED IMMEDIATELY AFTER EXCAVATION.
- ALL OPEN TRENCHES TO BE BACKFILLED IMMEDIATELY AFTER CONDUIT INSTALLATION AND SEED AND MULCH PLACED DOWN OVER THE TRENCHED AREA.
- IF CONDUIT IS PLOWED, THE NEED FOR PERMANENT SEED AND MULCH WILL BE DETERMINED BY THE ENGINEER BASED ON THE AMOUNT OF DISTURBED SOIL.
- HIGH VISIBILITY AND SILT FENCES SHALL BE PLACED ALONG ALL ENVIRONMENTAL FEATURES WITHIN 50' OF DISTURBED AREAS AND SHALL BE USED IN COMBINATION WITH OTHER SEDIMENT AND EROSION CONTROL MEASURES AS NEEDED.

TRENCHING EROSION CONTROL

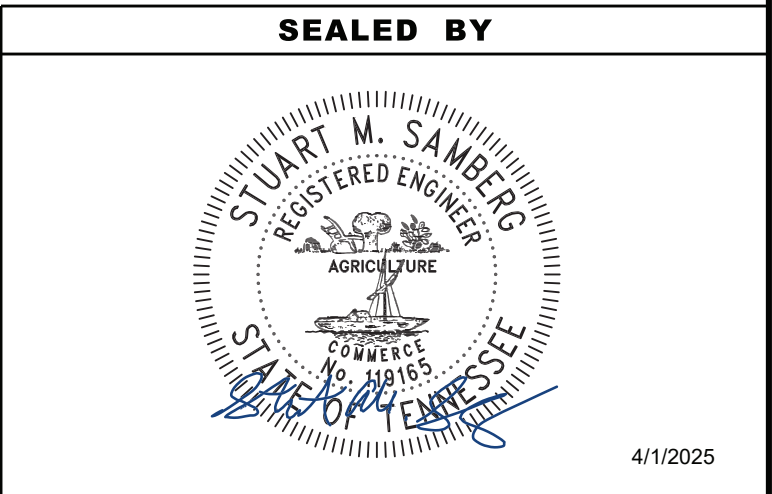


WETLAND AND STREAM EROSION CONTROL



APPROXIMATE QUANTITIES (PER EACH LOCATION)			
ITEM NO.	DESCRIPTION	TOTAL	UNIT
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	100	L.F.
707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	100	L.F.

DISTURBED AREA				
	Site 1	Site 2	Site 3	Total
TOTAL DISTURBED AREA	0.055 AC.	0.039 AC	0.181 AC	0.275 AC.
EQUIPMENT STAGING AREA	0.028 AC.	0.031 AC.	0.059 AC.	0.118 AC.
TOTAL PROJECT AREA				0.393 AC.

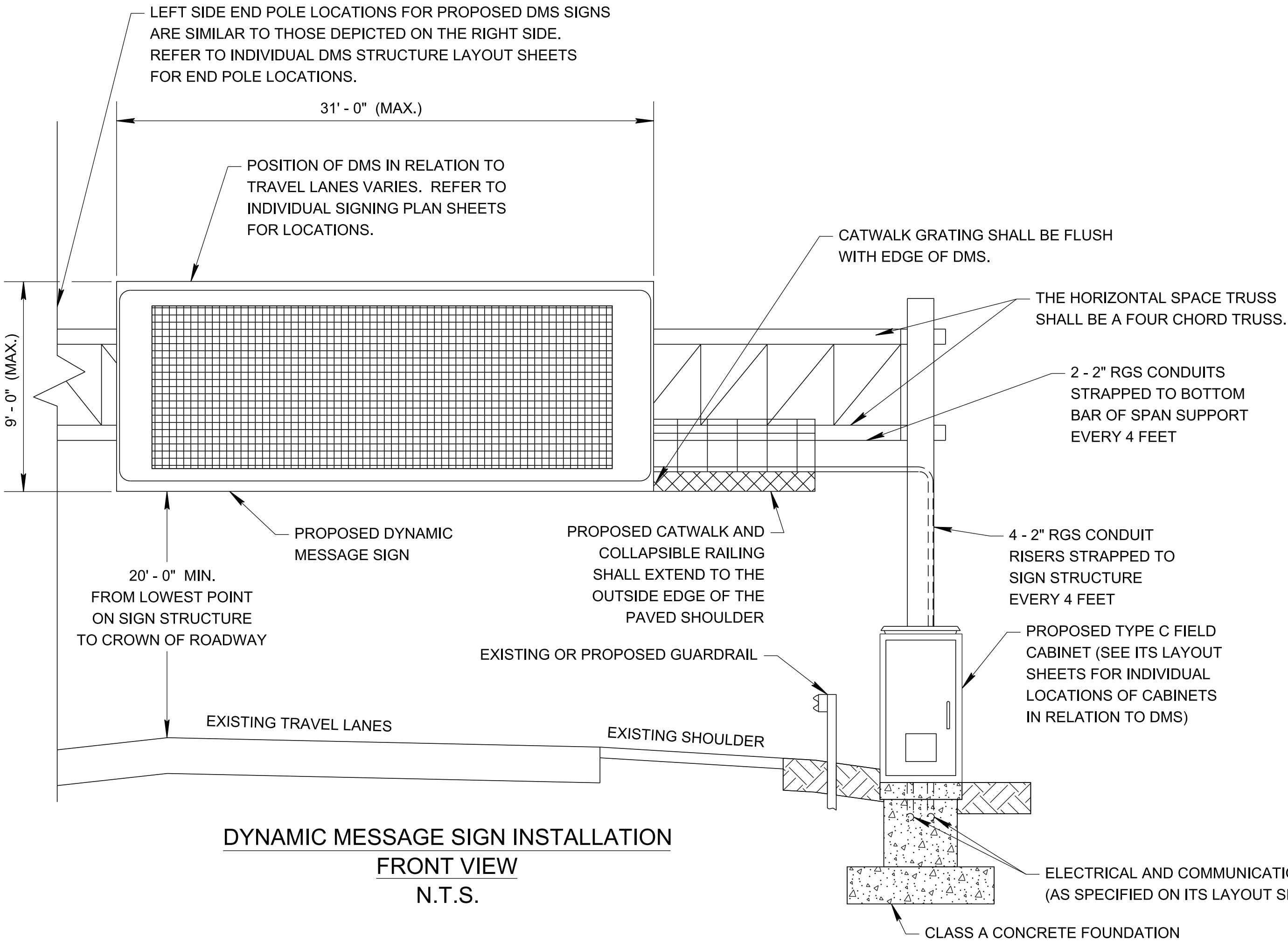


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION  
AND SEDIMENT CONTROL  
DETAILS

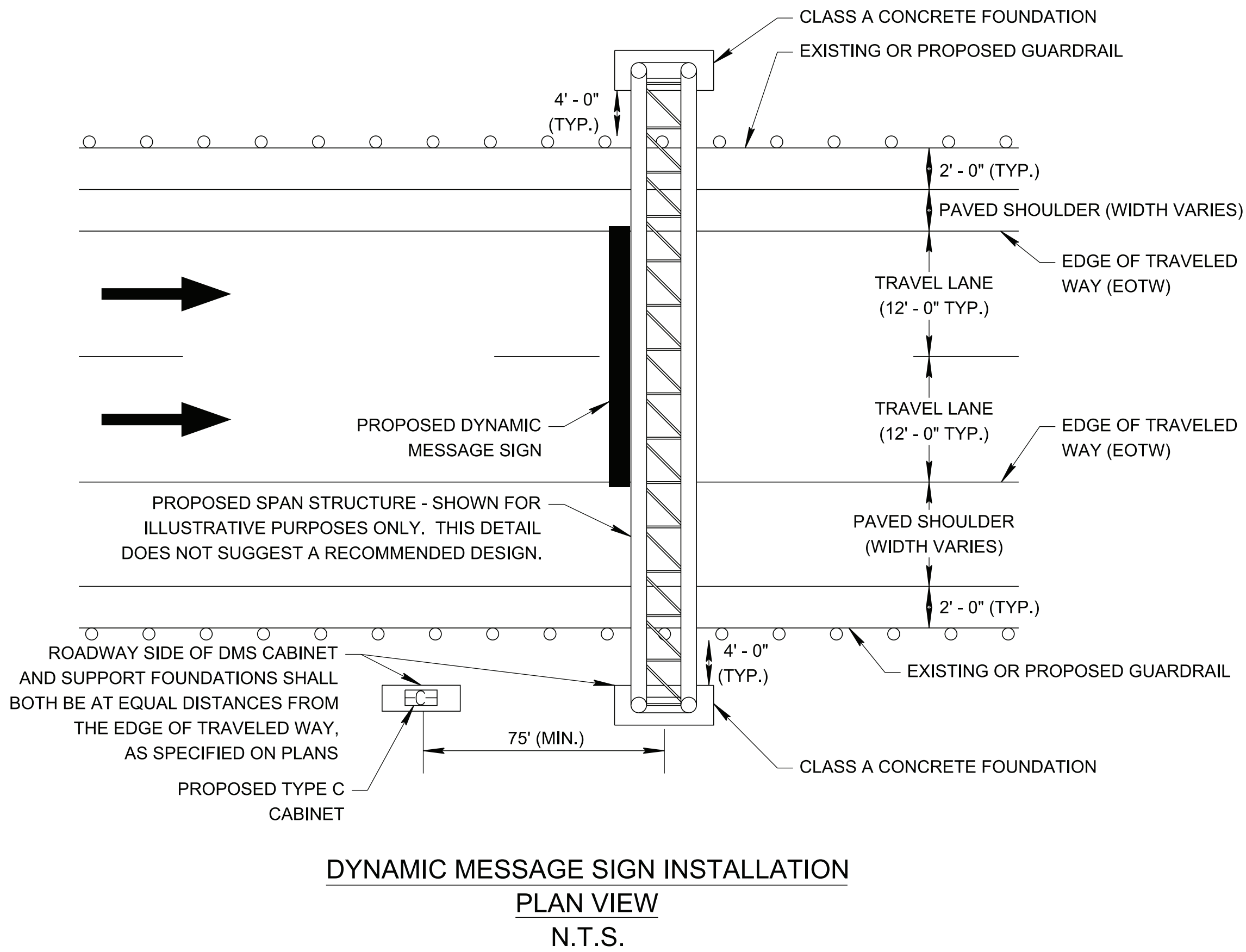
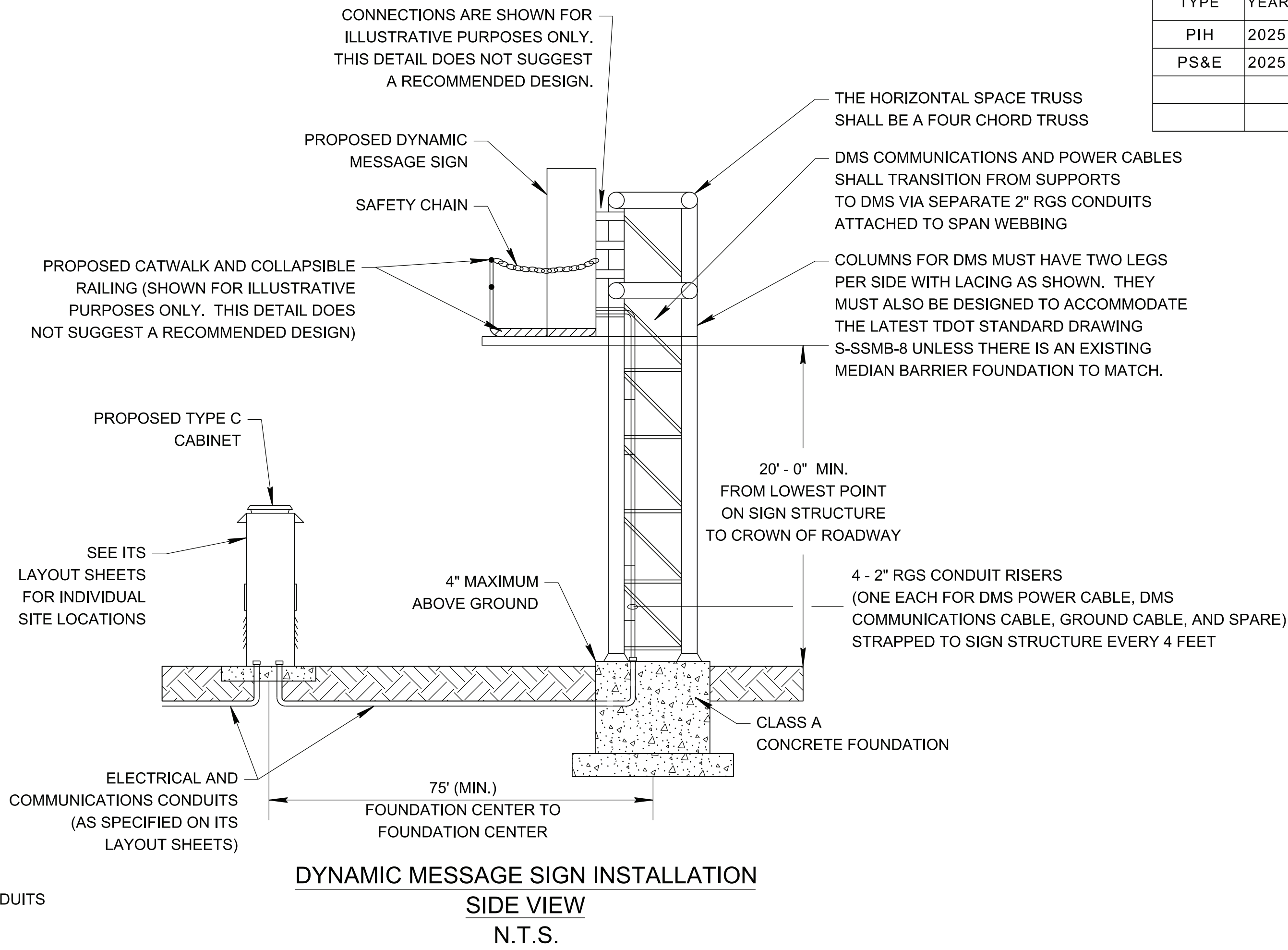


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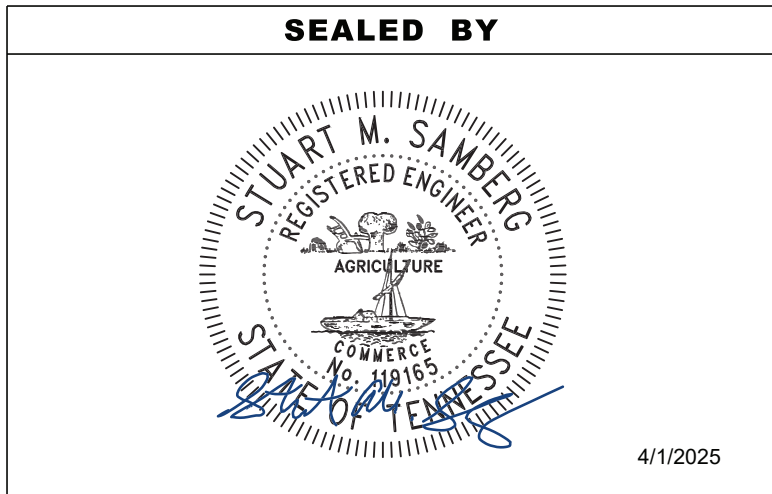


DMS STRUCTURE NOTES:

1. CONTRACTOR SHALL PROVIDE STRUCTURES COMPLETE WITH FOUNDATIONS, ATTACHMENTS TO DMS AND STATIC SIGNS, CATWALKS, AND CATWALK RAILING.
2. THE CONTRACTOR SHALL DESIGN THE OVERHEAD SIGN STRUCTURE, ITS FOUNDATION, AND THE CATWALK FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO THE DMS SIGN.
3. MATERIAL USED MAY BE ALUMINUM OR STEEL, BUT MUST BE FULLY COMPATIBLE WITH DMS BODY.
4. THE DESIGN SHALL BE IN ACCORDANCE WITH "AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" INCLUDING THE MAXIMUM DEAD LOAD DEFLECTION CRITERIA. THE DESIGN WIND SPEED SHALL BE 120 MPH.
5. THE STRUCTURE SHALL BE DESIGNED, FABRICATED AND CONSTRUCTED EXPRESSLY TO SUPPORT, AND BE COMPATIBLE WITH THE DYNAMIC MESSAGE SIGN DESCRIBED IN THE DESIGN SPECIAL PROVISIONS AND OTHER STATIC SIGNS AS DEPICTED ON THE INDIVIDUAL SIGNING PLANS.
6. THE CONTRACTOR SHALL SUBMIT ONE (1) SET OF CALCULATIONS AND FOUR (4) SETS OF SHOP DRAWINGS TO THE ENGINEER FOR ALL ITEMS ASSOCIATED WITH THE MANUFACTURE, CONSTRUCTION AND INSTALLATION OF THE STRUCTURE, ATTACHMENTS AND FOUNDATION. THE FIRST PAGE OF EACH SET OF DESIGN CALCULATIONS AND EACH PAGE OF THE SHOP DRAWINGS SHALL BEAR THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF TENNESSEE.
7. THE SIGN STRUCTURE ID# SHALL BE PLACED ON EACH INDIVIDUAL STRUCTURE AND SHOP DRAWINGS. SEE TDOT STRUCTURES STANDARD DRAWING STD-8-4 FOR PROPER LABELING AND OTHER DETAILS.
8. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LENGTH OF THE SUPPORT COLUMNS ON THE BASIS OF THE EXISTING FIELD CONDITIONS. ALL DIMENSIONS NOTED ON THIS DRAWING ARE APPROXIMATE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE DESIGNING STRUCTURES.
9. MATERIAL CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 30 DAYS PRIOR TO THE STRUCTURE ERECTION.
10. THE PROPOSED RAILING DEPICTED FOR THE CATWALK SHALL BE A COLLAPSIBLE RAILING THAT CAN BE FASTENED TO THE CATWALK WHEN NOT IN USE SO THAT THE RAILING DOES NOT LIMIT THE VISIBILITY OF OTHER STATIC SIGNS THAT MAY BE LOCATED ON THE SAME SIGN STRUCTURE. FURTHERMORE, A SAFETY CHAIN SHALL BE PROVIDED ON THE OPEN END OF THE CATWALK OPPOSITE OF DMS ENTRANCE PER DETAILS ABOVE.
11. SEE GENERAL NOTES, GENERAL NOTES FOR SIGN SUPPORTS, AND SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.
12. REFER TO INDIVIDUAL DMS STRUCTURE LAYOUT SHEETS FOR SIGN LAYOUTS.
13. PROVISIONS FOR WIRING AS WELL AS GROUNDING SHALL BE PROVIDED (SEE TDOT STD DWG. T-S-15).



TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F13
PS&E	2025	99BVAR-F3-024	2F13



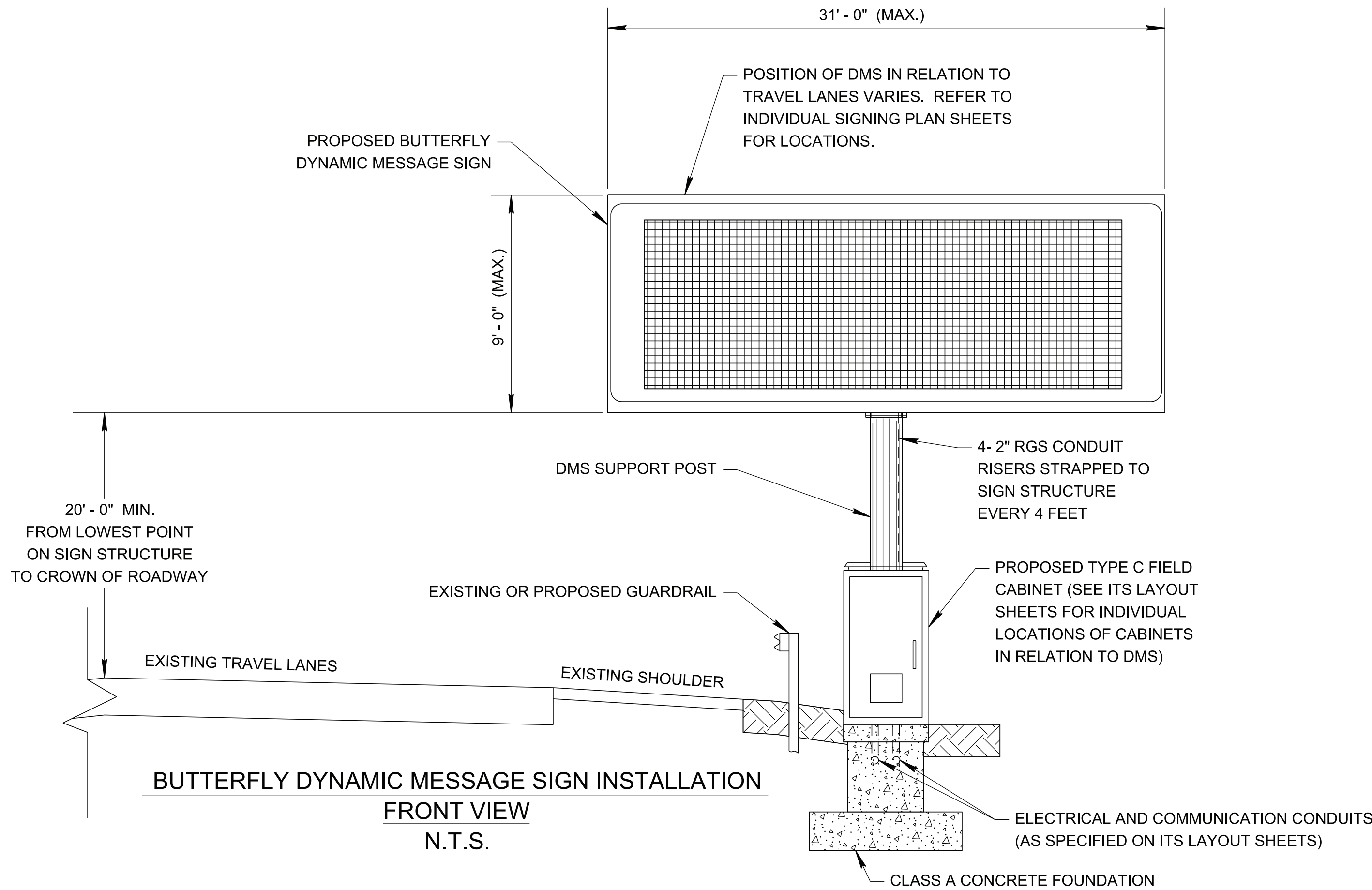
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS TYPICAL  
DMS  
DETAILS



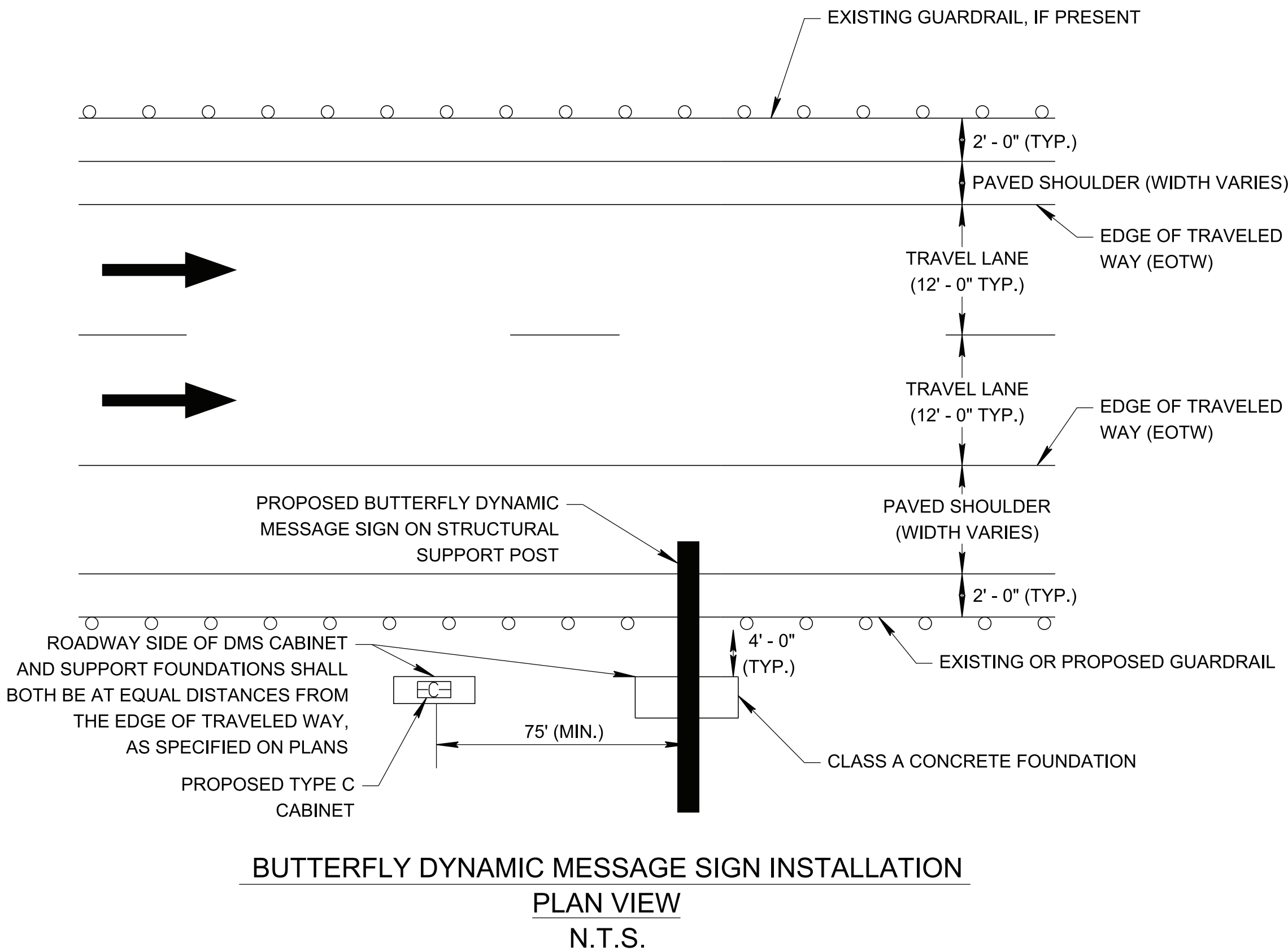
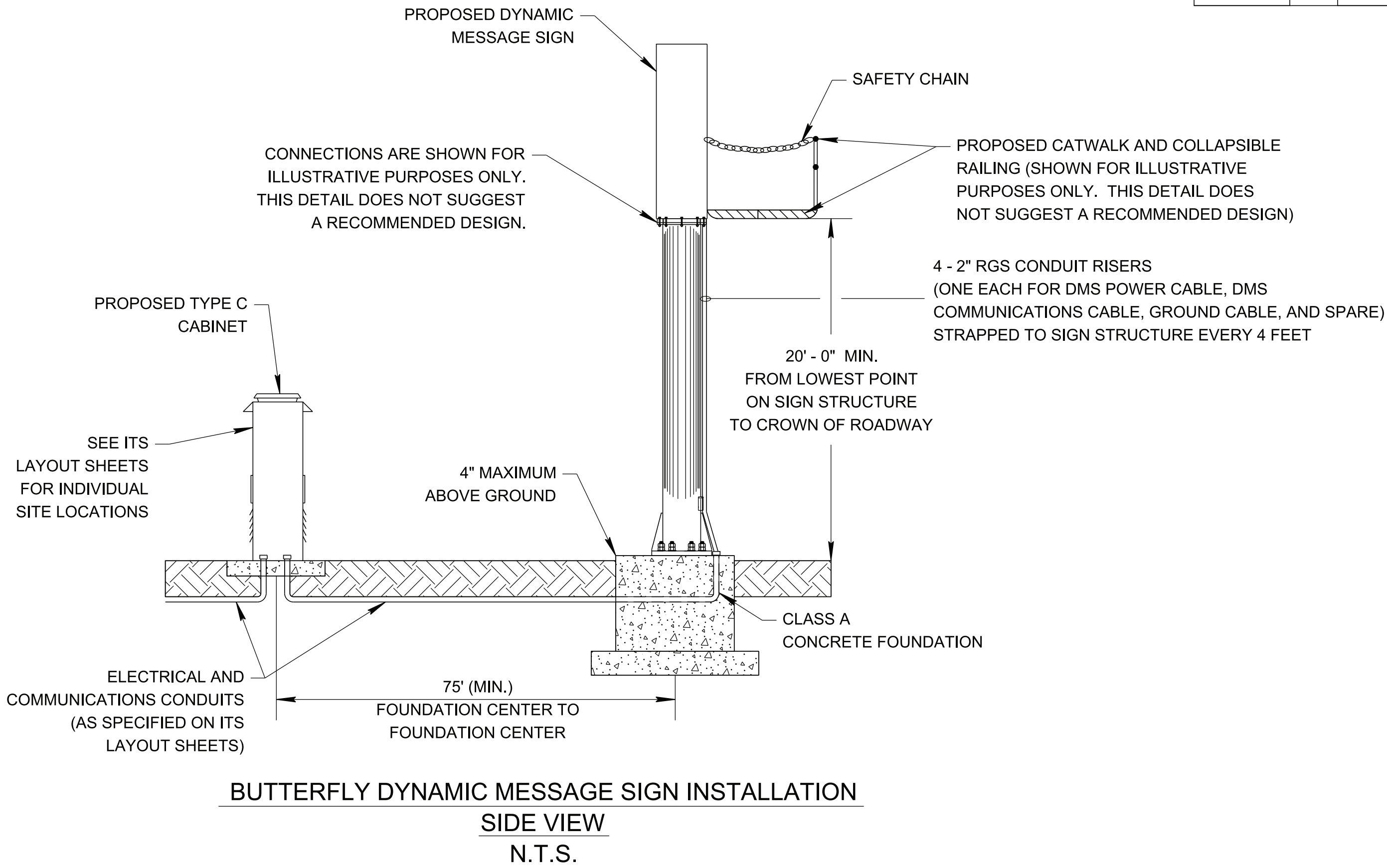
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	99BVAR-F3-024	2F14



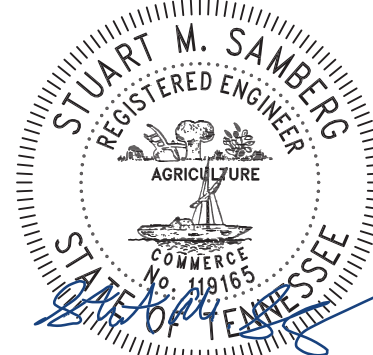
DMS STRUCTURE NOTES:

- CONTRACTOR SHALL PROVIDE STRUCTURES COMPLETE WITH FOUNDATIONS, ATTACHMENTS TO DMS AND STATIC SIGNS, CATWALKS, AND CATWALK RAILING.
- THE CONTRACTOR SHALL DESIGN THE BUTTE FLY SIGN STRUCTURE, ITS FOUNDATION, AND THE CATWALK FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO THE DMS SIGN.
- PROPOSED SUPPORT STRUCTURES ARE FOR ILLUSTRATIVE PURPOSES ONLY. THESE DETAILS DO NO SUGGEST A RECOMMENDED DESIGN.
- MATERIAL USED MAY BE ALUMINUM OR STEEL, BUT MUST BE FULLY COMPATIBLE WITH DMS BODY.
- THE DESIGN SHALL BE IN ACCORDANCE WITH "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" INCLUDING THE MAXIMUM DEAD LOAD DEFLECTION CRITERIA. THE DESIGN WIND SPEED SHALL BE 120 MPH.
- THE STRUCTURE SHALL BE DESIGNED, FABRICATED AND CONSTRUCTED EXPRESSLY TO SUPPORT, AND BE COMPATIBLE WITH THE DYNAMIC MESSAGE SIGN DESCRIBED IN THE DESIGN SPECIAL PROVISIONS AND OTHER STATIC SIGNS AS DEPICTED ON THE INDIVIDUAL SIGNING PLANS.
- THE CONTRACTOR SHALL SUBMIT ONE (1) SET OF CALCULATIONS AND FOUR (4) SETS OF SHOP DRAWINGS TO THE ENGINEER FOR ALL ITEMS ASSOCIATED WITH THE MANUFACTURE, CONSTRUCTION AND INSTALLATION OF THE STRUCTURE, ATTACHMENTS AND FOUNDATION. THE FIRST PAGE OF EACH SET OF DESIGN CALCULATIONS AND EACH PAGE OF THE STOP DRAWINGS SHALL BEAR THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF TENNESSEE.
- THE SIGN STRUCTURE ID# SHALL BE PLACED ON EACH INDIVIDUAL STRUCTURE AND SHOP DRAWINGS. SEE TDOT STRUCTURES STANDARD DRAWING STD-8-4 FOR PROPER LABELING AND OTHER DETAILS.
- THE CONTRACTOR SHALL DETERMINE THE ACTUAL LENGTH OF THE SUPPORT COLUMNS ON THE BASIS OF THE EXISTING FIELD CONDITIONS. ALL DIMENSIONS NOTED ON THIS DRAWING ARE APPROXIMATE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE DESIGNING STRUCTURES.
- MATERIAL CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 30 DAYS PRIOR TO THE STRUCTURE ERECTION.
- THE PROPOSED RAILING DEPICTED FOR THE CATWALK SHALL BE A COLLAPSIBLE RAILING THAT CAN BE FASTENED TO THE CATWALK WHEN NOT IN USE SO THAT THE RAILING DOES NOT LIMIT THE VISIBILITY OF OTHER STATIC SIGNS THAT MAY BE LOCATED ON THE SAME SIGN STRUCTURE. FURTHERMORE, A SAFETY CHAIN SHALL BE PROVIDED ON THE OPEN END OF THE CATWALK OPPOSITE OF DMS ENTRANCE PER DETAILS ABOVE.
- SEE GENERAL NOTES, GENERAL NOTES FOR SIGN SUPPORTS, AND SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.
- REFER TO INDIVIDUAL DMS STRUCTURE LAYOUT SHEETS FOR SIGN LAYOUTS.
- PROVISIONS FOR WIRING AS WELL AS GROUNDING SHALL BE PROVIDED (SEE TDOT STD DWG. T-S-15).



PLAN  
IN  
HAND  
PLANS

SEALED BY



4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

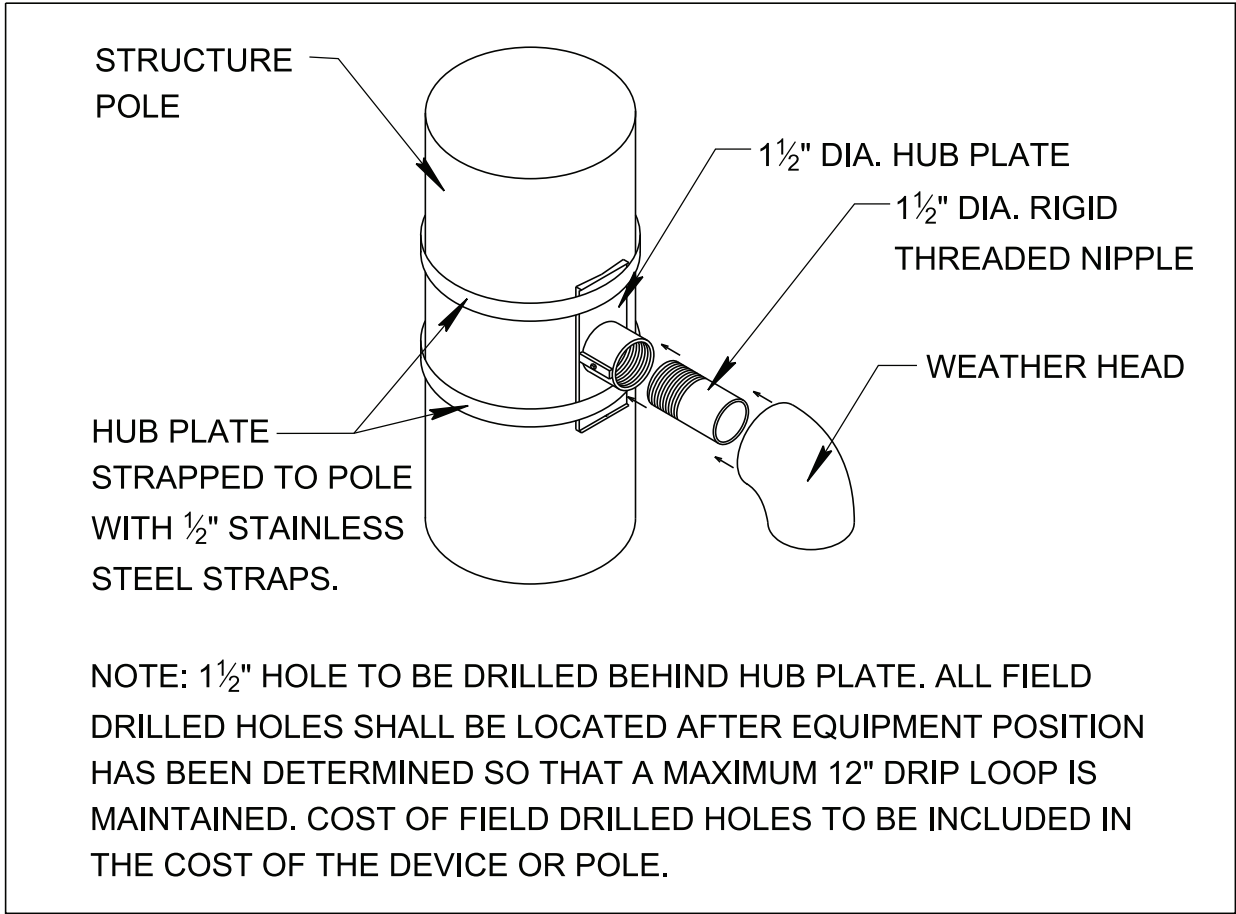
ITS TYPICAL  
BUTTERFLY DMS  
DETAILS



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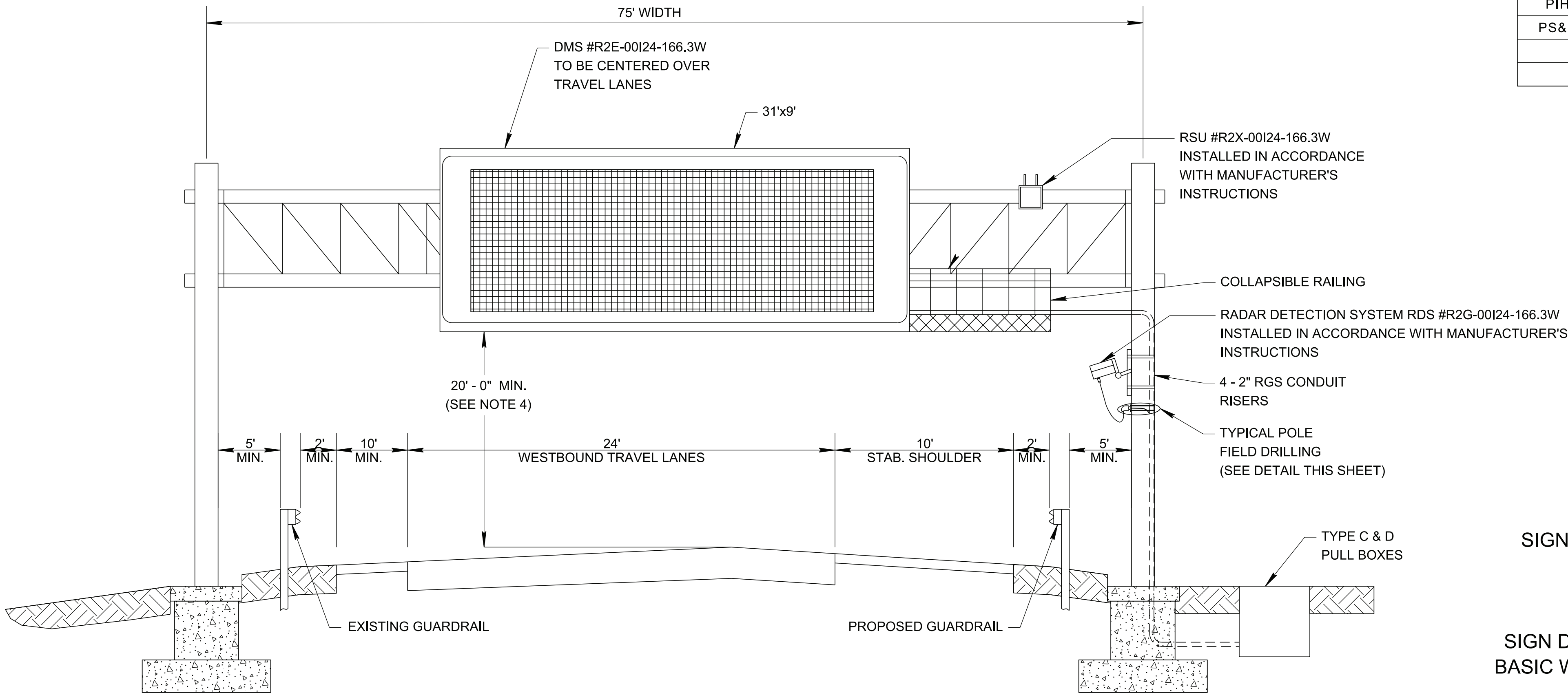
DMS STRUCTURE NOTES:

1. REFER TO DMS DETAIL SHEET 2F13 THIS PLAN SET FOR ADDITIONAL DETAILS.
2. CONTRACTOR TO PROVIDE 4-2" CONDUITS WITHIN FOUNDATION FROM BASE OF SIGN TRUSS TO NEW TYPE C AND TYPE D PULL BOXES. 1 CONDUIT SHALL GO TO THE TYPE C PULL BOX AND THE OTHER 3 CONDUITS SHALL GO TO THE TYPE D PULL BOX.
3. CONDUIT AND CABLING IS SHOWN FOR INFORMATION PURPOSES ONLY. SEE ITS LAYOUT SHEETS FOR ALL UNDERGROUND CONDUTI AND CABLE ROUTING.
4. DIMENSION SHOWN FROM LOW POINT OF SIGN TO HIGH POINT OF ROAD.



TYPICAL POLE FIELD DRILLING

N.T.S.

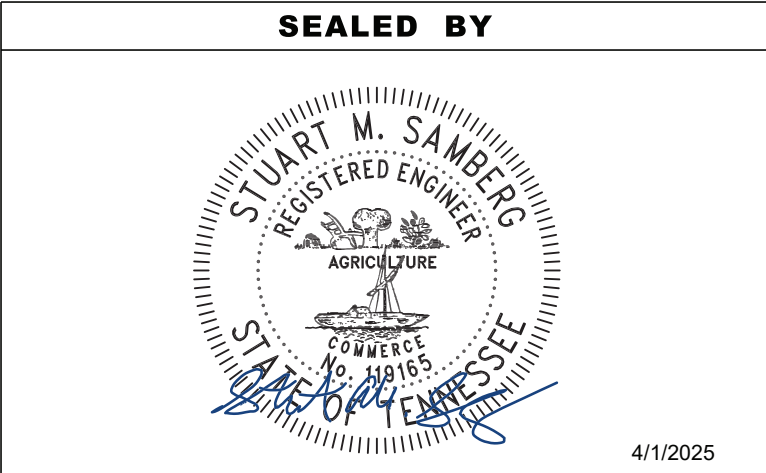
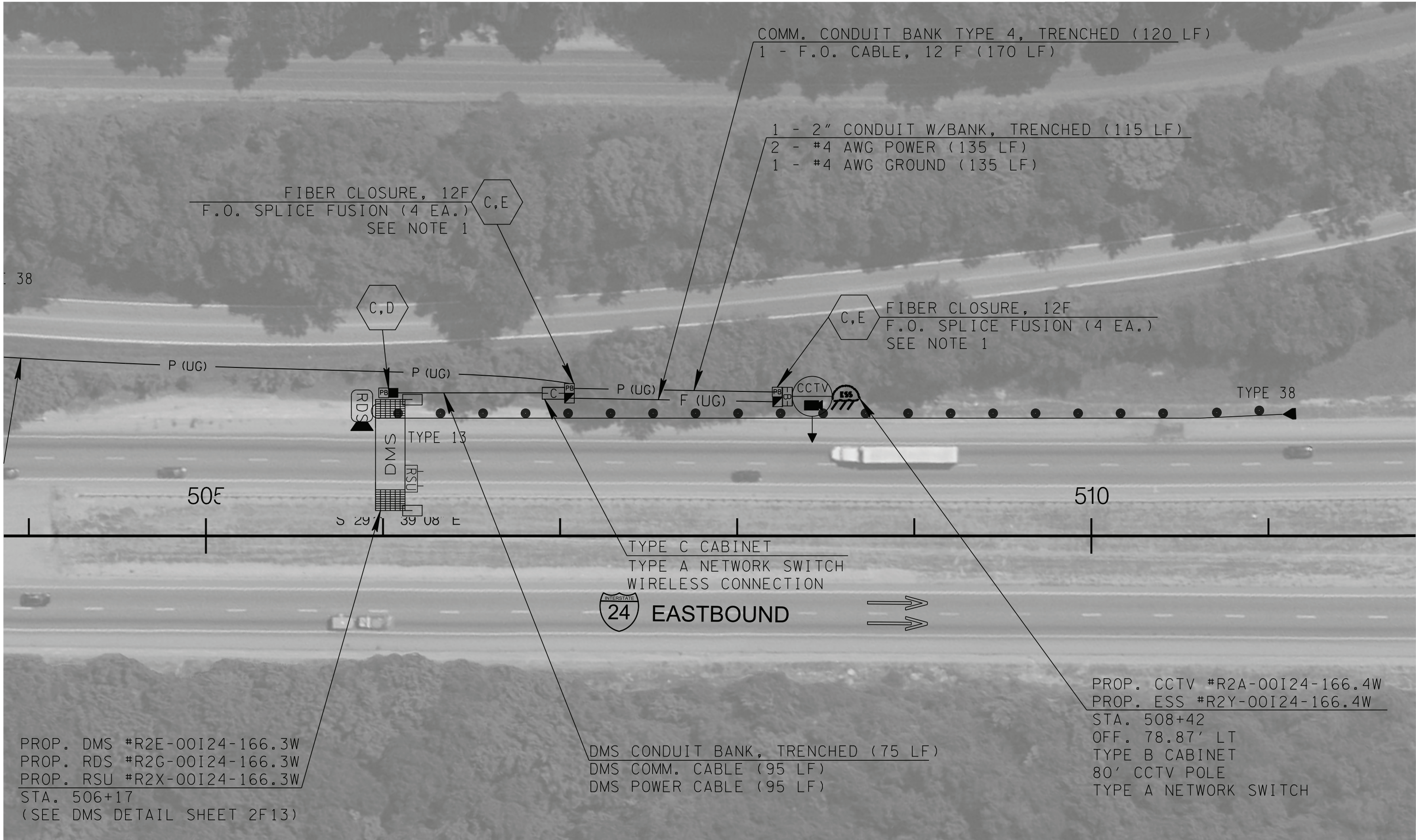


I-24 STA. 506+17  
SHEET 5  
I-24 WESTBOUND

SIGN STRUCTURE ID NO:  
58SNU0753833

DESIGN DATA:  
SIGN DESIGN AREA = 434 SF  
BASIC WIND SPEED = 120 MPH

U-75-383



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE  
SIGN CROSS-SECTION  
SITE 1



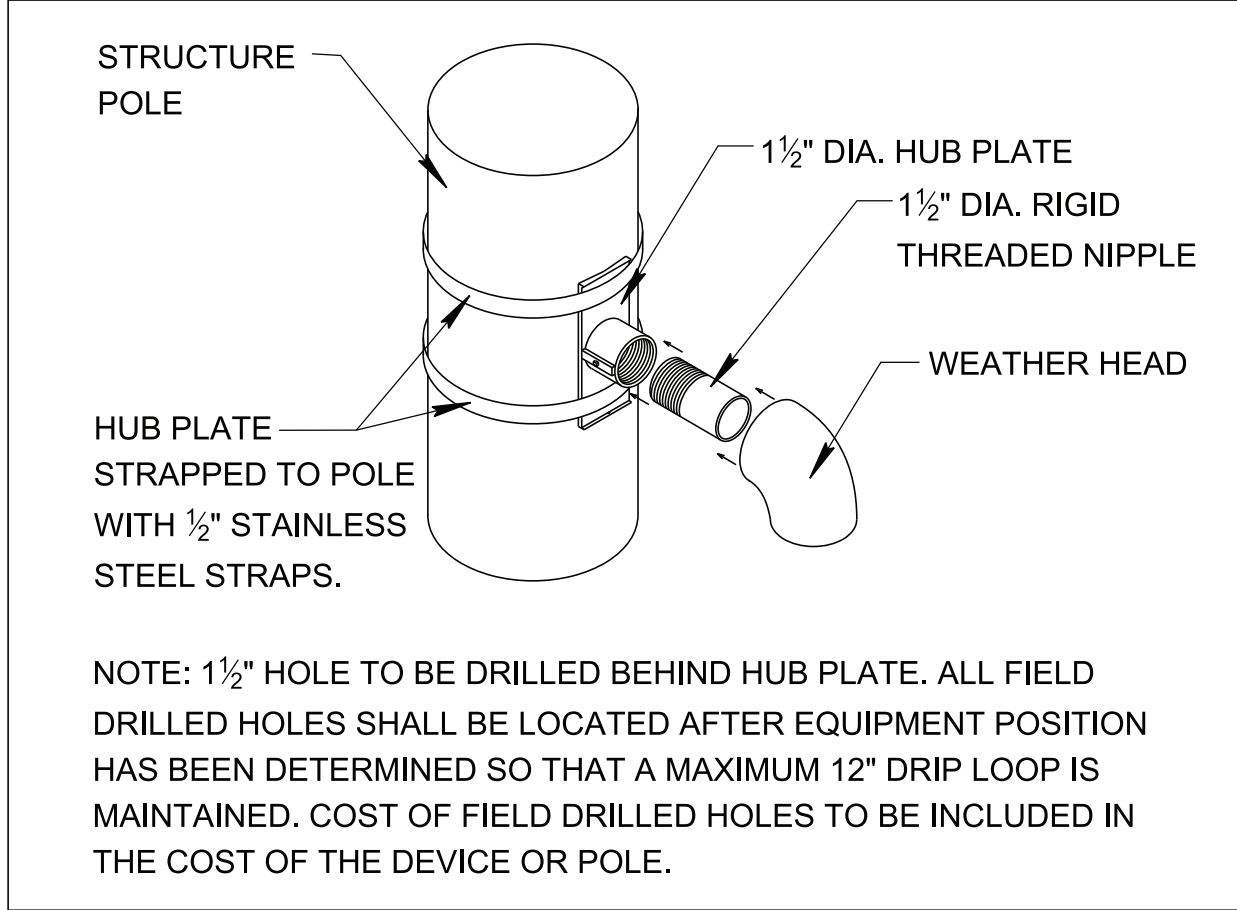




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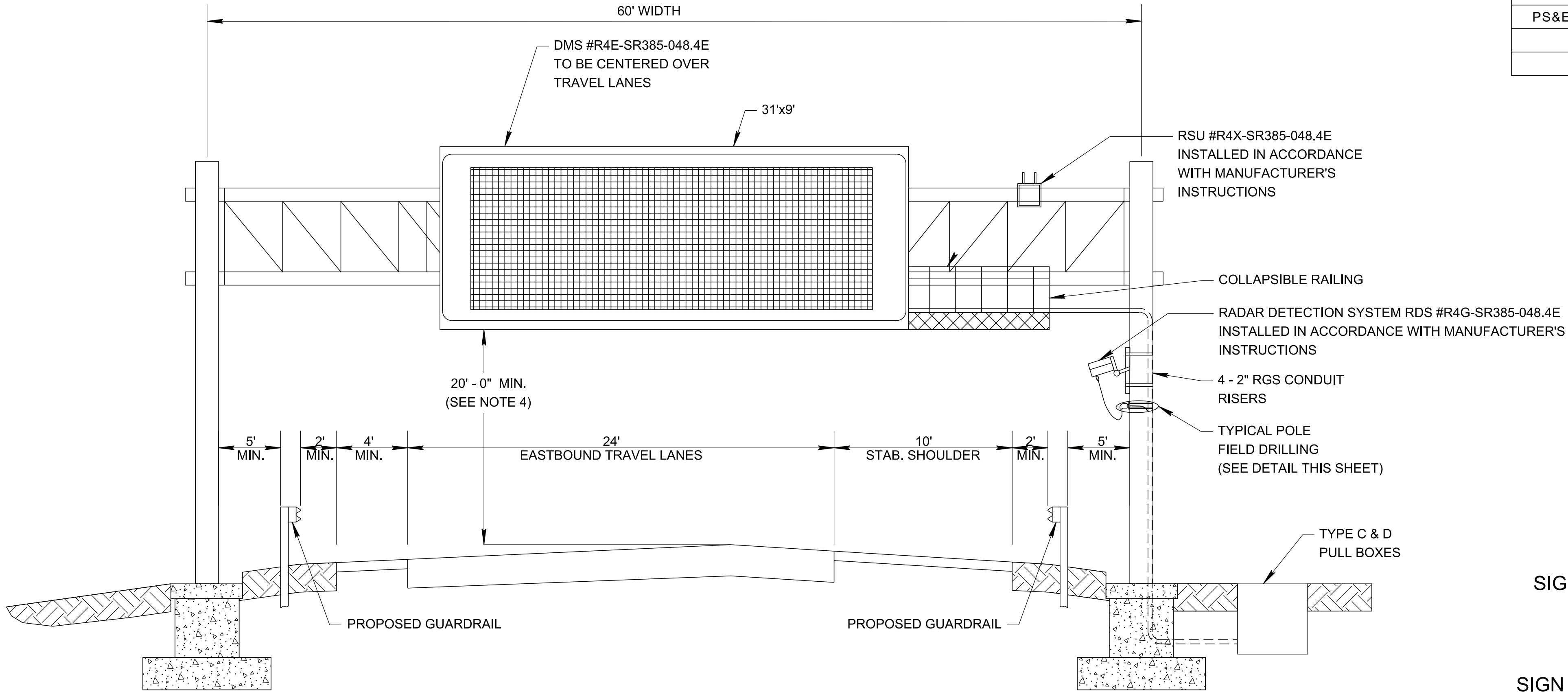
DMS STRUCTURE NOTES:

1. REFER TO DMS DETAIL SHEET 2F13 THIS PLAN SET FOR ADDITIONAL DETAILS.
2. CONTRACTOR TO PROVIDE 4-2" CONDUITS WITHIN FOUNDATION FROM BASE OF SIGN TRUSS TO NEW TYPE C AND TYPE D PULL BOXES. 1 CONDUIT SHALL GO TO THE TYPE C PULL BOX AND THE OTHER 3 CONDUITS SHALL GO TO THE TYPE D PULL BOX.
3. CONDUIT AND CABLING IS SHOWN FOR INFORMATION PURPOSES ONLY. SEE ITS LAYOUT SHEETS FOR ALL UNDERGROUND CONDUTI AND CABLE ROUTING.
4. DIMENSION SHOWN FROM LOW POINT OF SIGN TO HIGH POINT OF ROAD.



TYPICAL POLE FIELD DRILLING

N.T.S.



SR-385 STA. 140+86

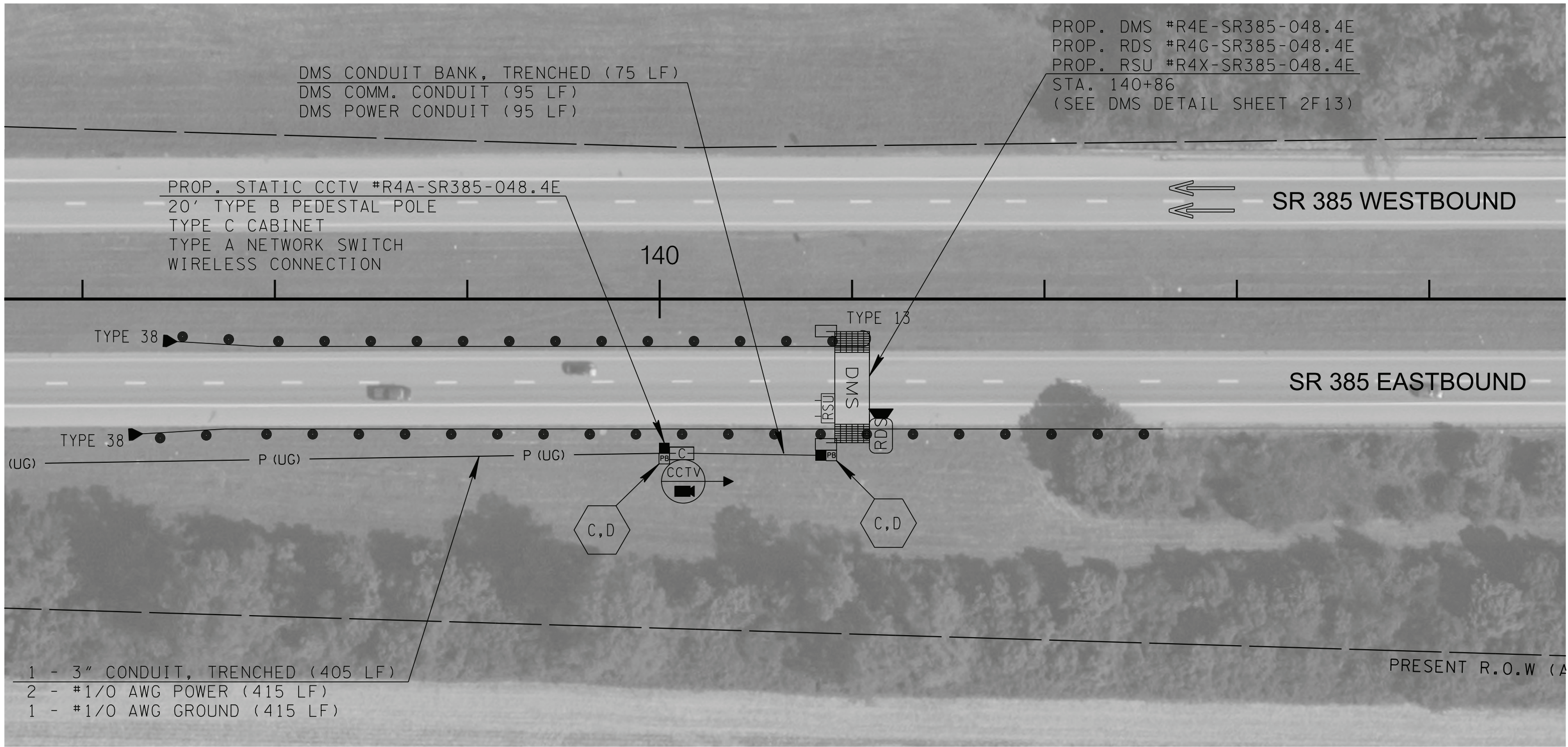
SHEET 11

SR-385 EASTBOUND

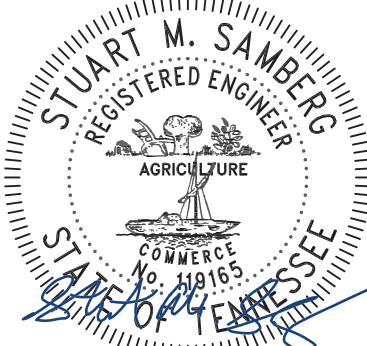
SIGN STRUCTURE ID NO:  
79SNU0753853

DESIGN DATA:  
SIGN DESIGN AREA = 434 SF  
BASIC WIND SPEED = 120 MPH

U-75-385



SEALED BY



4/1/2025

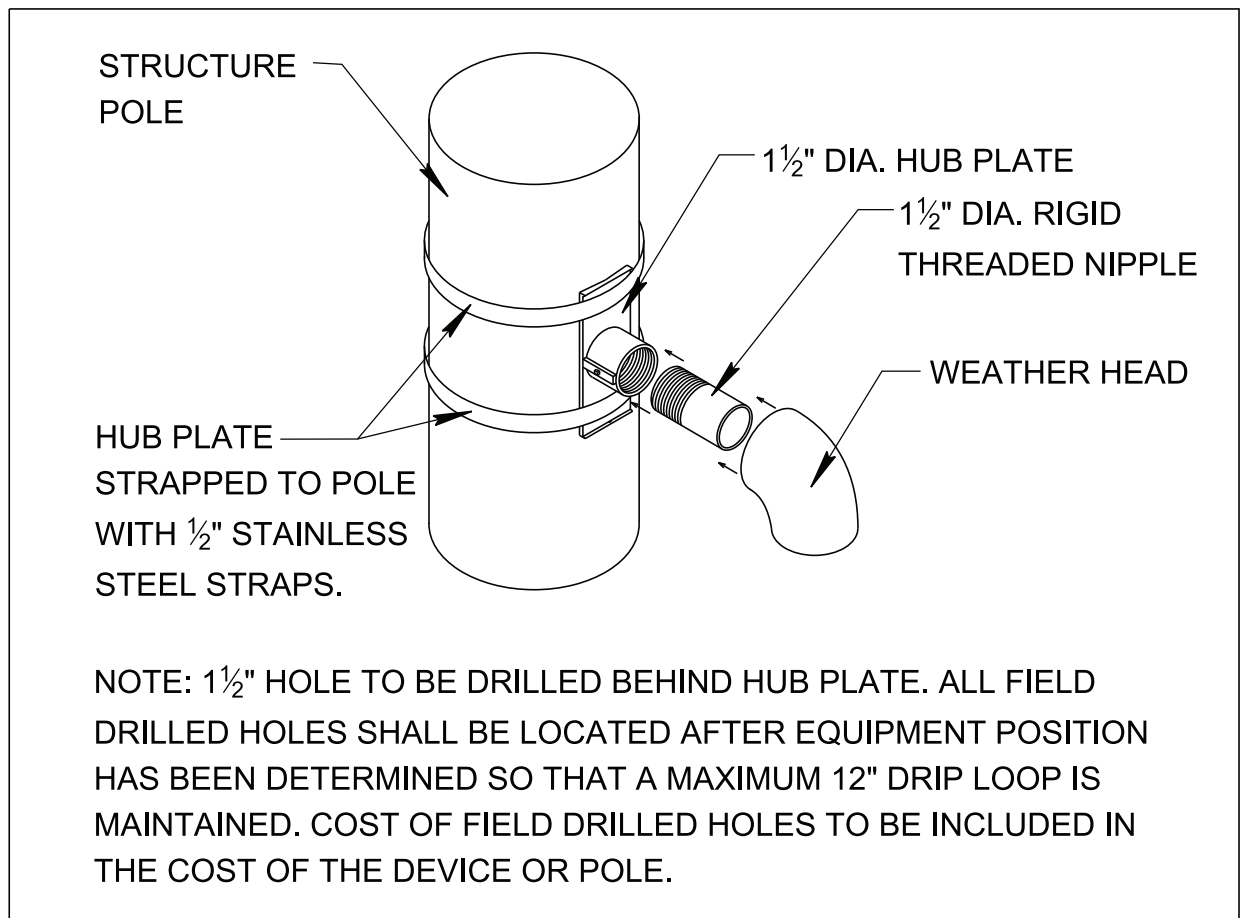
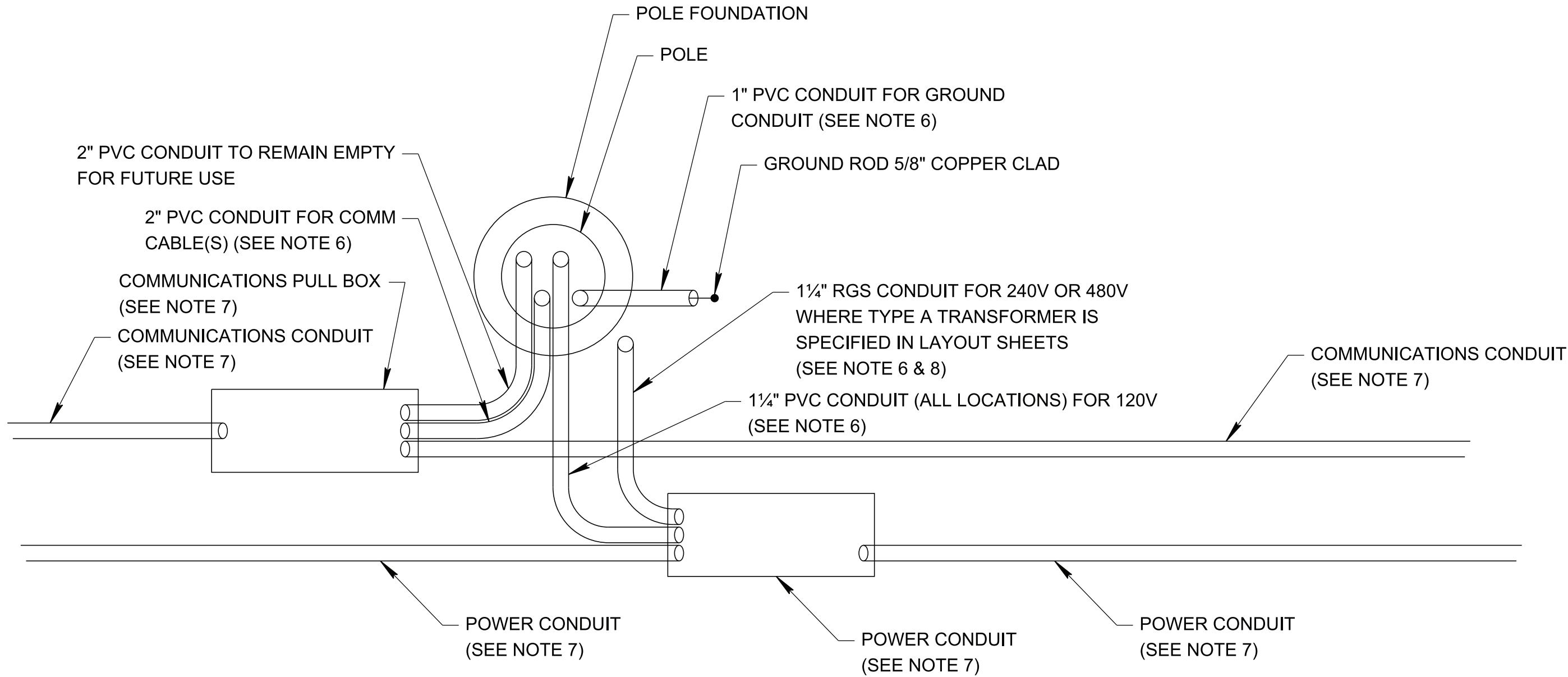
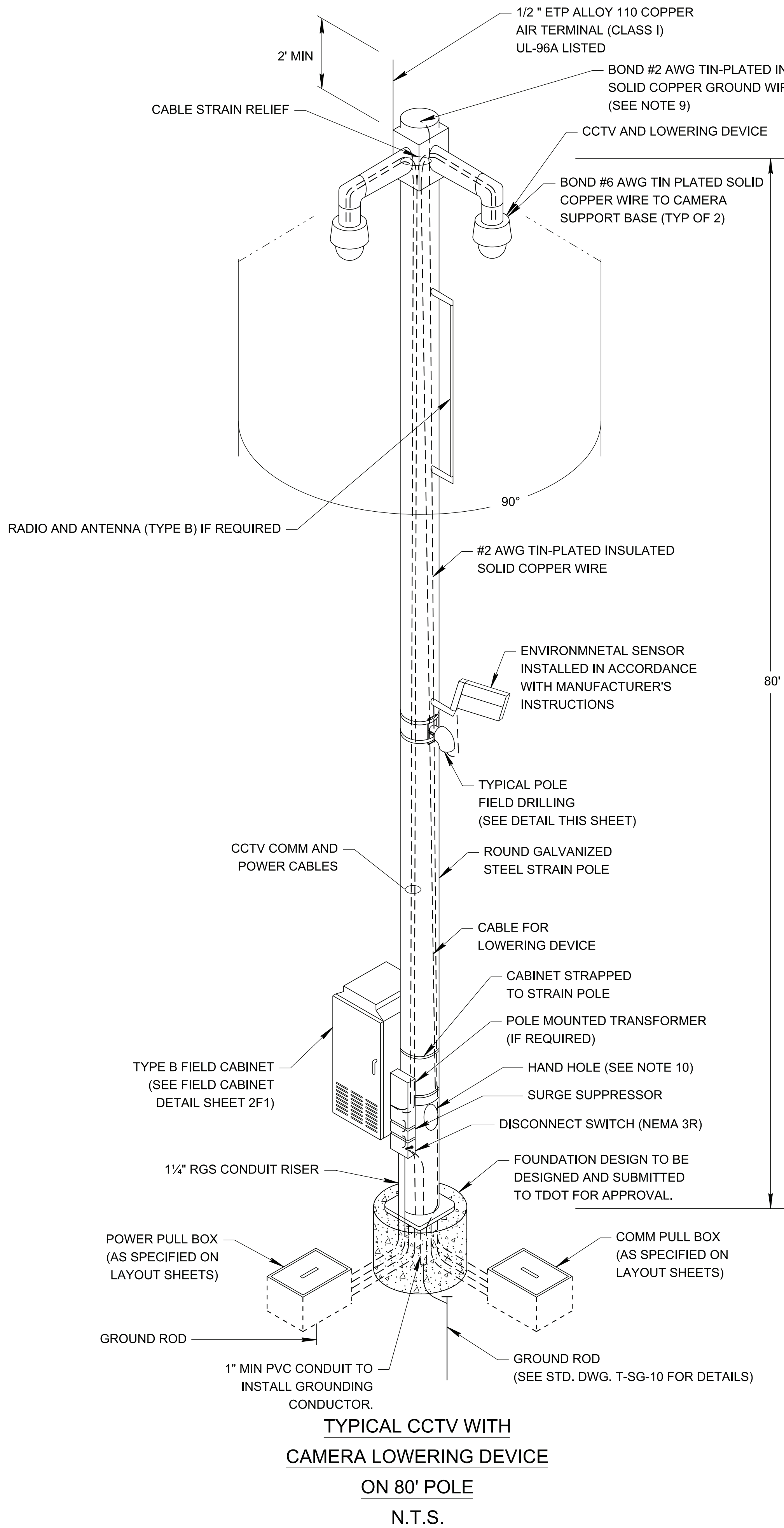
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE  
SIGN CROSS-SECTION  
SITE 3

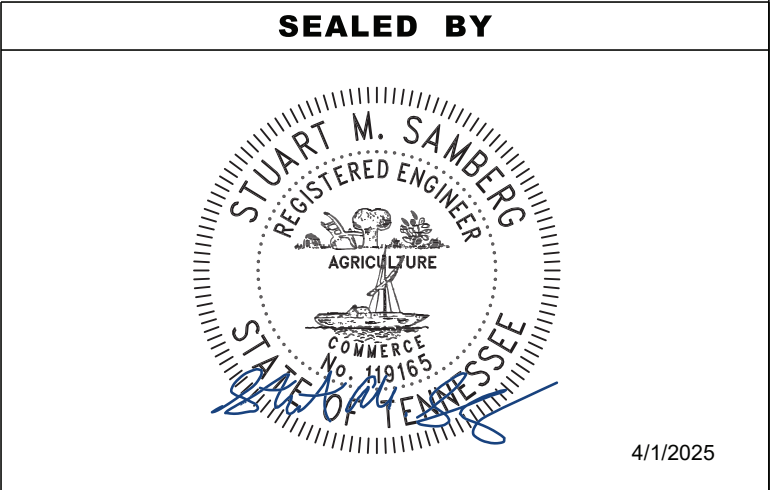


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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F17
PS&E	2025	99BVAR-F3-024	2F18



- NOTES:
- THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF LAYOUT/SHOP DRAWINGS OF THE POLE AND ITS COMPONENTS (INCLUDING THE PLAN OF ATTACHMENT) TO TDOT STRUCTURES FOR REVIEW AND APPROVAL. TWO (2) EXTRA SETS SHALL BE SUBMITTED TO THE ENGINEER. ALL DRAWINGS SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER FROM THE STATE OF TENNESSEE.
  - ALL EQUIPMENT CONNECTIONS SHALL BE MADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOUNDATION DESIGN AND SHALL SUBMIT TWO (2) COPIES OF THE DESIGN CALCULATIONS TO TDOT STRUCTURES FOR REVIEW AND APPROVAL. ONE (1) EXTRA SET SHALL BE SUBMITTED TO THE ENGINEER. THE TOP OF THE FOUNDATION SHALL NOT PROJECT OVER 4" MAX. ABOVE THE GROUND LINE. ALL DESIGN CALCULATIONS SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER FROM THE STATE OF TENNESSEE.
  - SUPPORTS AND FOUNDATIONS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FOUNDATIONS AND ATTACHMENTS SHALL BE DESIGNED BY THE CONTRACTOR AS SPECIFIED ABOVE AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER FROM THE STATE OF TENNESSEE. SEE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS AND DRAWINGS FOR FURTHER INFORMATION.
  - LOWERING DEVICE WIRES SHALL NOT COME INTO CONTACT WITH COMMUNICATION CABLES OR EACH OTHER.
  - ALL CONDUIT BETWEEN PULL BOXES AND THE POLE FOUNDATION SHALL BE INCLUDED IN THE COST OF OTHER PAY ITEMS AND SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT.
  - CONDUIT AND PULL BOXES AS SPECIFIED AND TABULATED ON THE LAYOUT SHEETS.
  - BOND RGS CONDUIT TO POLE GROUND ROD.
  - A STEEL POLE MAY BE USED AS A GROUNDING CONDUCTOR IF IT HAS SUFFICIENT CROSS-SECTIONAL AREA EQUAL TO THE CONDUCTIVITY OF MAIN LIGHTING CONDUCTORS PER NFPA 780 AND A MINIMUM WALL THICKNESS OF 3/16" OR GREATER.
  - THE HAND HOLE SHALL NOT BE PLACED DIRECTLY UNDERNEATH THE CAMERA.



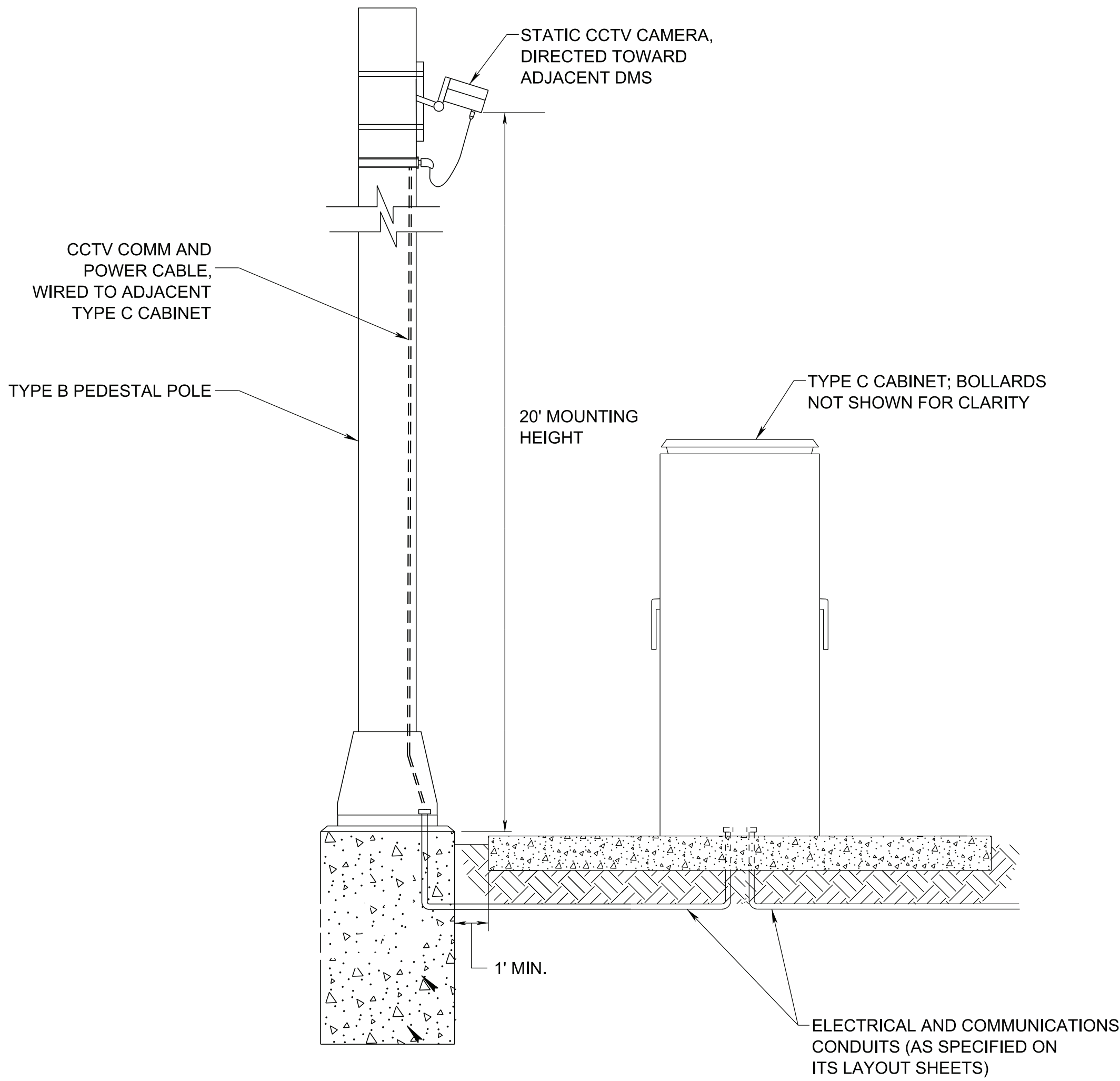
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**TYPICAL CCTV CAMERA DETAILS**

NOT TO SCALE



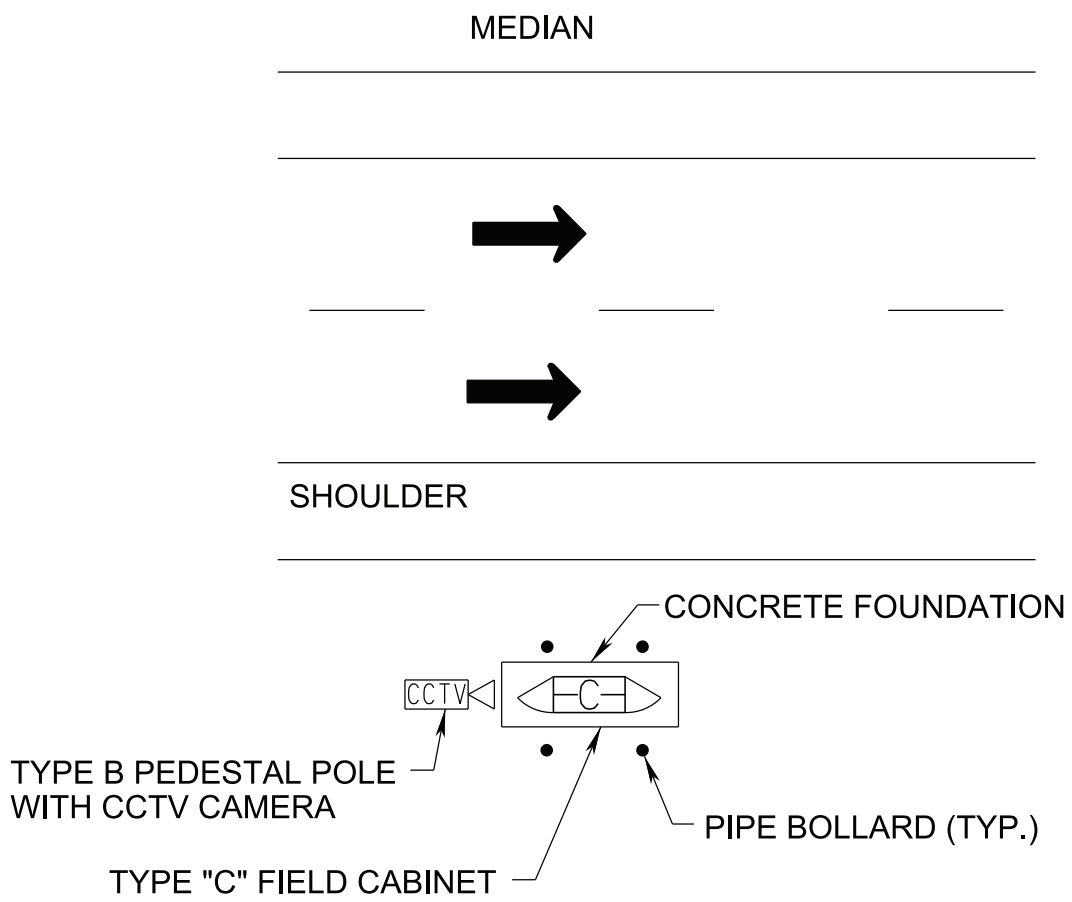
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2F18
PS&E	2025	99BVAR-F3-024	2F19



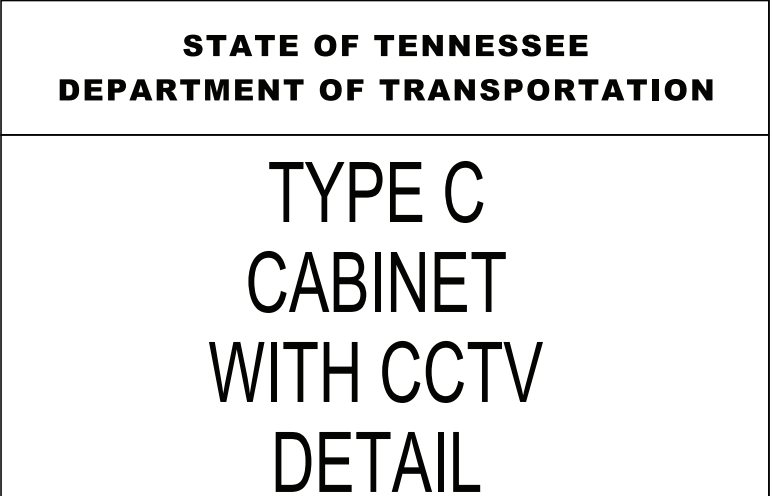
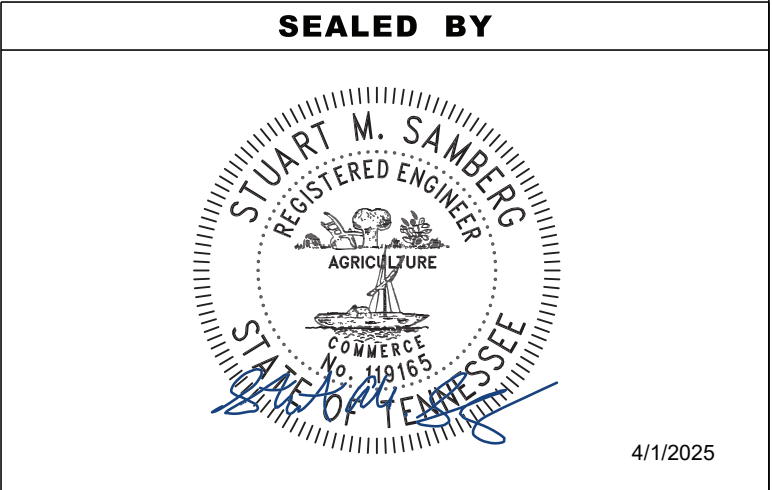
ELEVATION VIEW

NOTES

- THIS DETAIL SHALL APPLY TO CCTV CAMERAS INSTALLED ADJACENT TO TYPE C CABINETS FOR DMS OPERATION VERIFICATION PURPOSES.
- REFER TO THE FOLLOWING SHEETS FOR TYPICAL INSTALLATION DETAILS:
  - A. T-SG-6 FOR PEDESTAL POLE DETAILS;
  - B. 2F2 FOR TYPICAL TYPE C CABINET DETAILS;
  - C. AND, 2F20 FOR TYPICAL CCTV DETAILS.



DETAIL: PLAN VIEW OF TYPE "C" FIELD CABINET  
WITH CCTV CAMERA CONFIGURATION  
N.T.S.

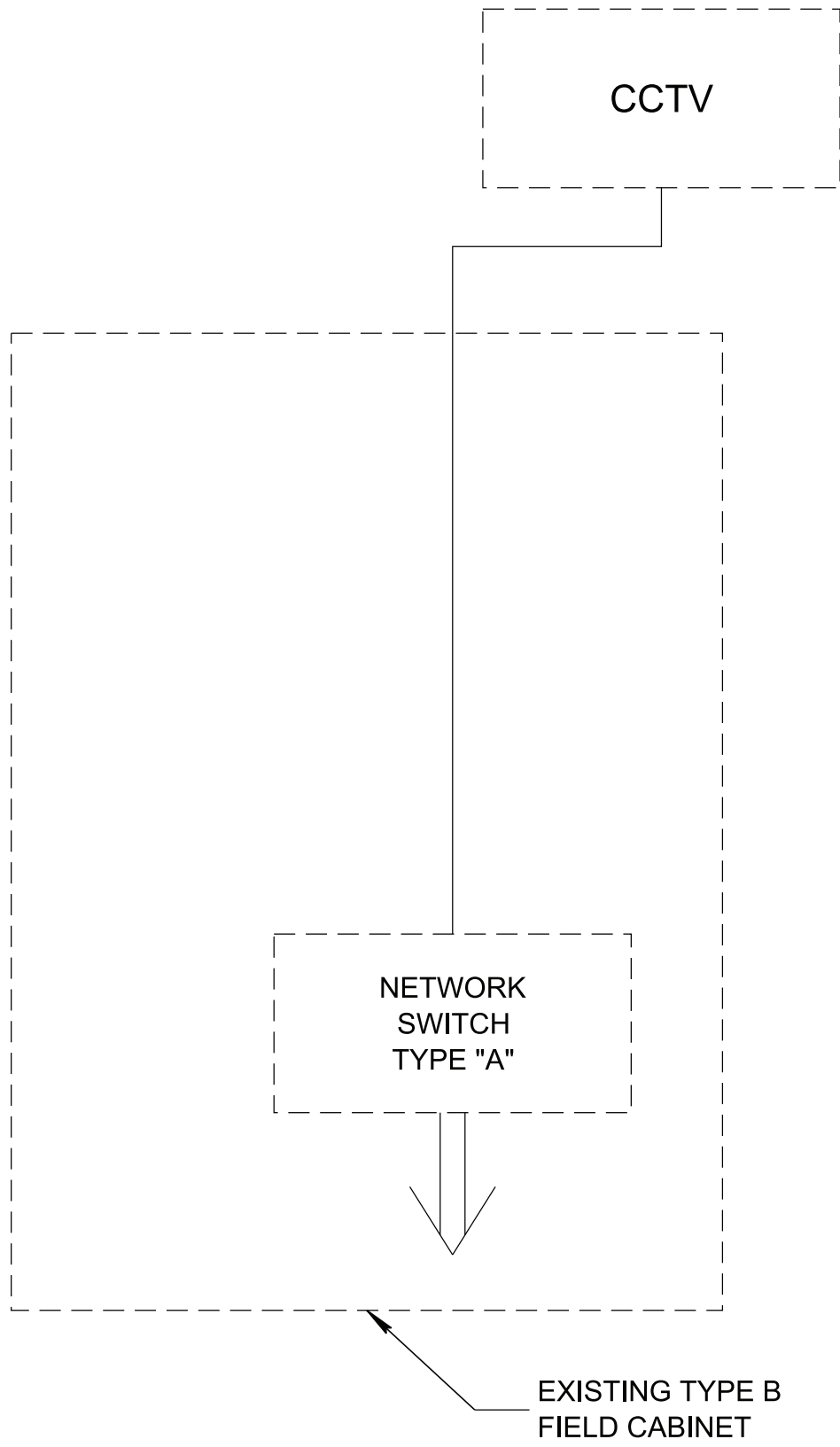


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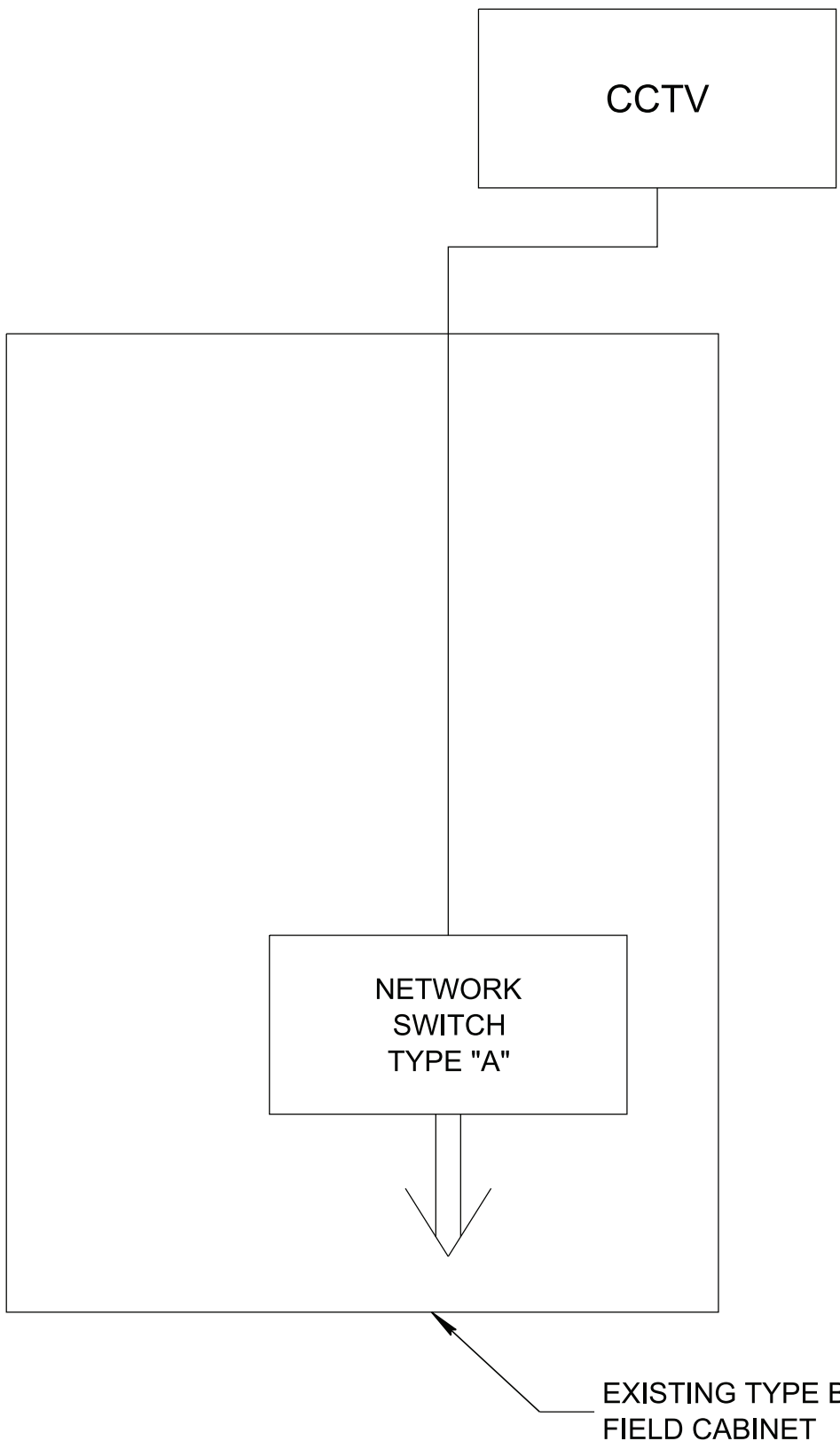


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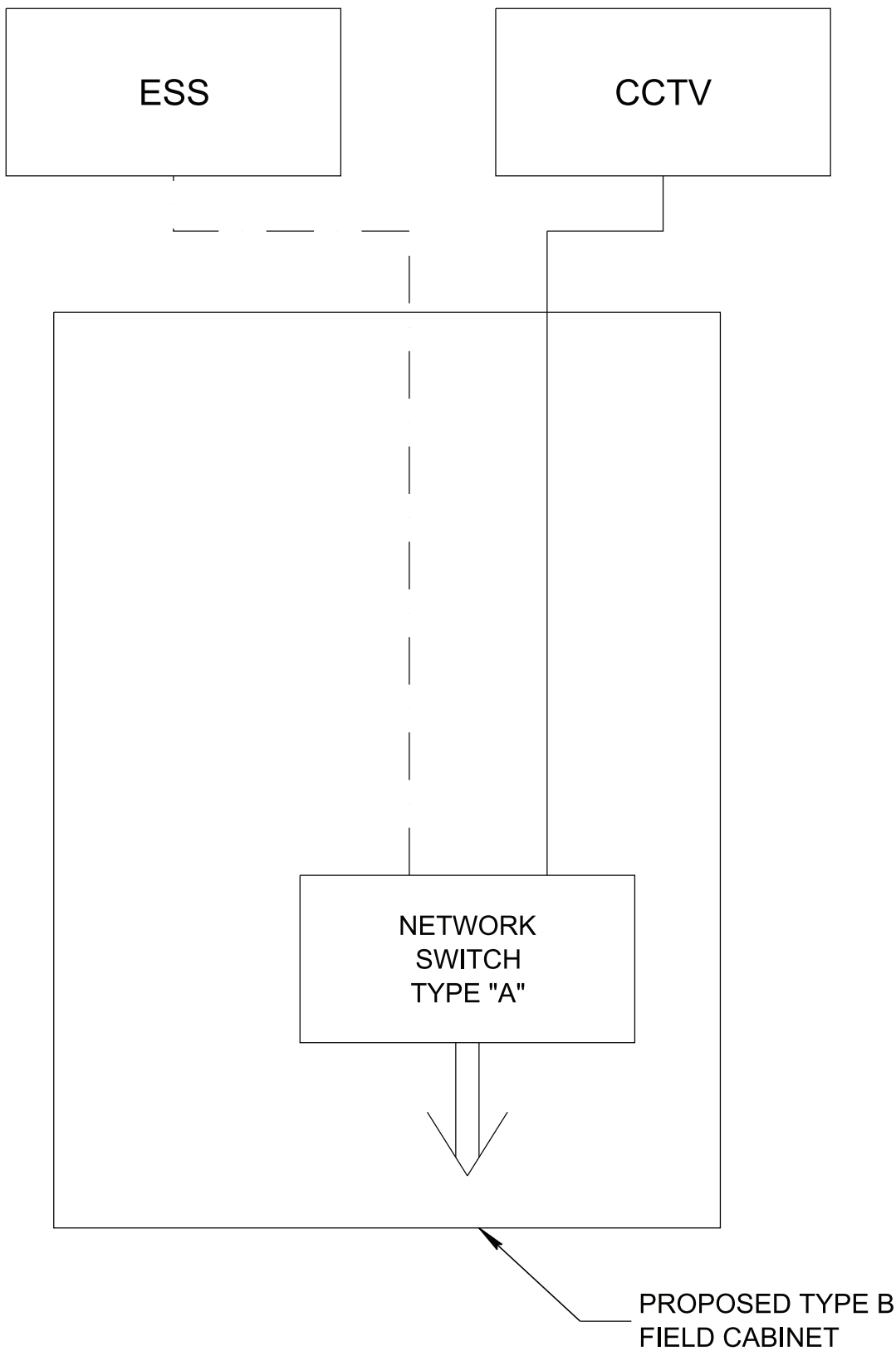
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2G
PS&E	2025	99BVAR-F3-024	2G



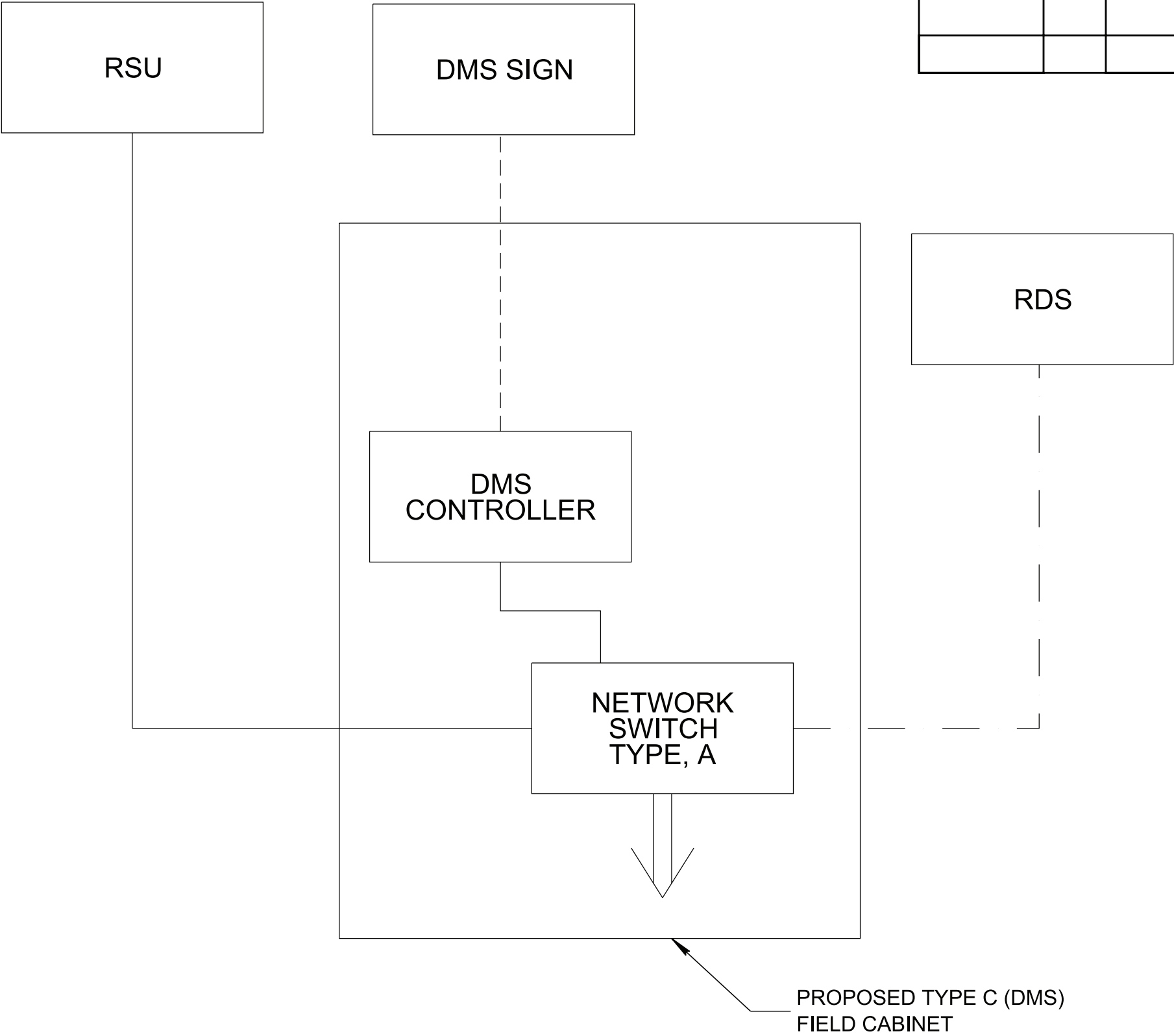
TYPICAL EXISTING CCTV



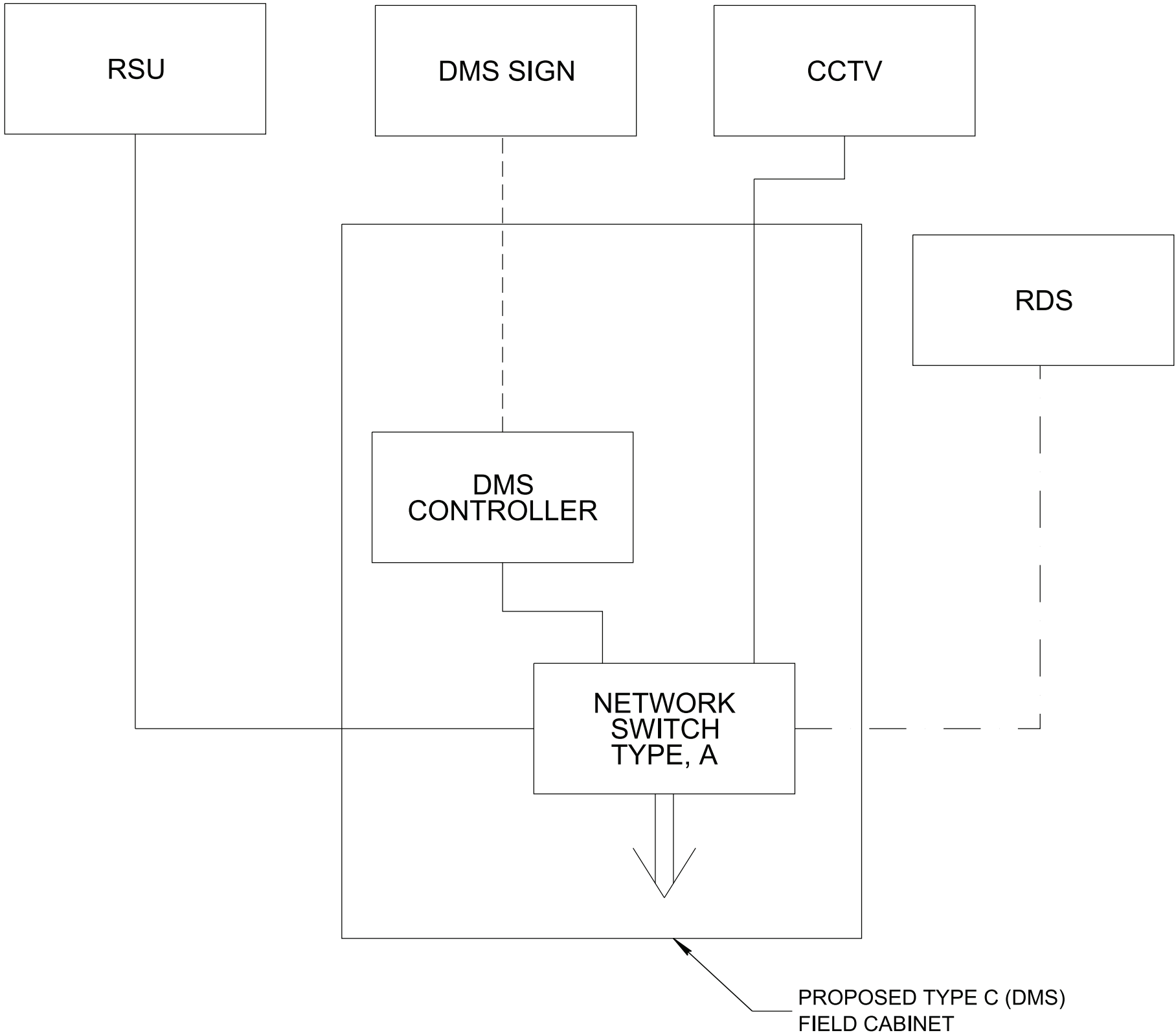
TYPICAL PROPOSED CCTV



TYPICAL PROPOSED CCTV WITH ONE PROPOSED ESS



TYPICAL PROPOSED DMS WITH ONE PROPOSED RDS AND RSU



TYPICAL PROPOSED DMS WITH ONE PROPOSED CCTV, RDS, AND RSU

LEGEND



PROPOSED EQUIPMENT



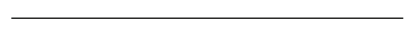
EXISTING EQUIPMENT



POWER/DATA CABLE



SERIAL DATA COMMUNICATIONS (TWISTED PAIR) (RS-232, RS-485)



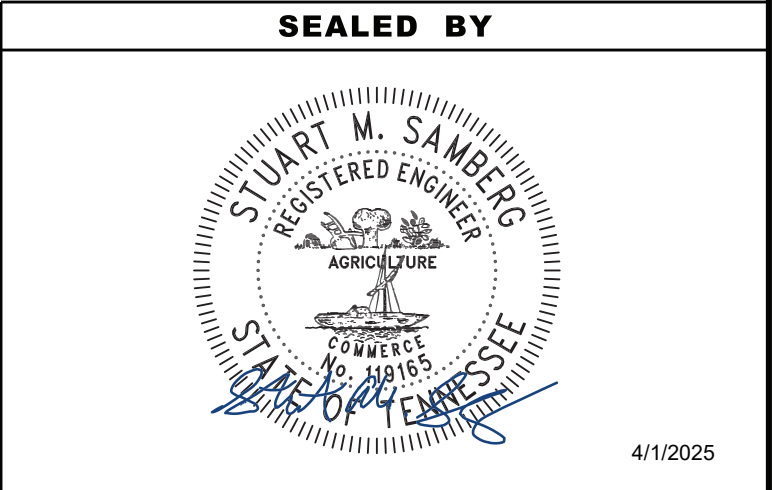
ETHERNET 10 / 1000 RX (CAT 6 CABLE)



OPTICAL ETHERNET 1000 BASE FX (SINGLE MODEL FIBER)

NOTE:

NOT EVERY WIRING/COMM DETAIL MAY BE DEPICTED HERE. ITS SHALL BE THE CONTRACTORS RESPONSIBILITY TO INFORM THE ENGINEER OF ANY CHANGES OR MODIFICATIONS IN THE FIELD

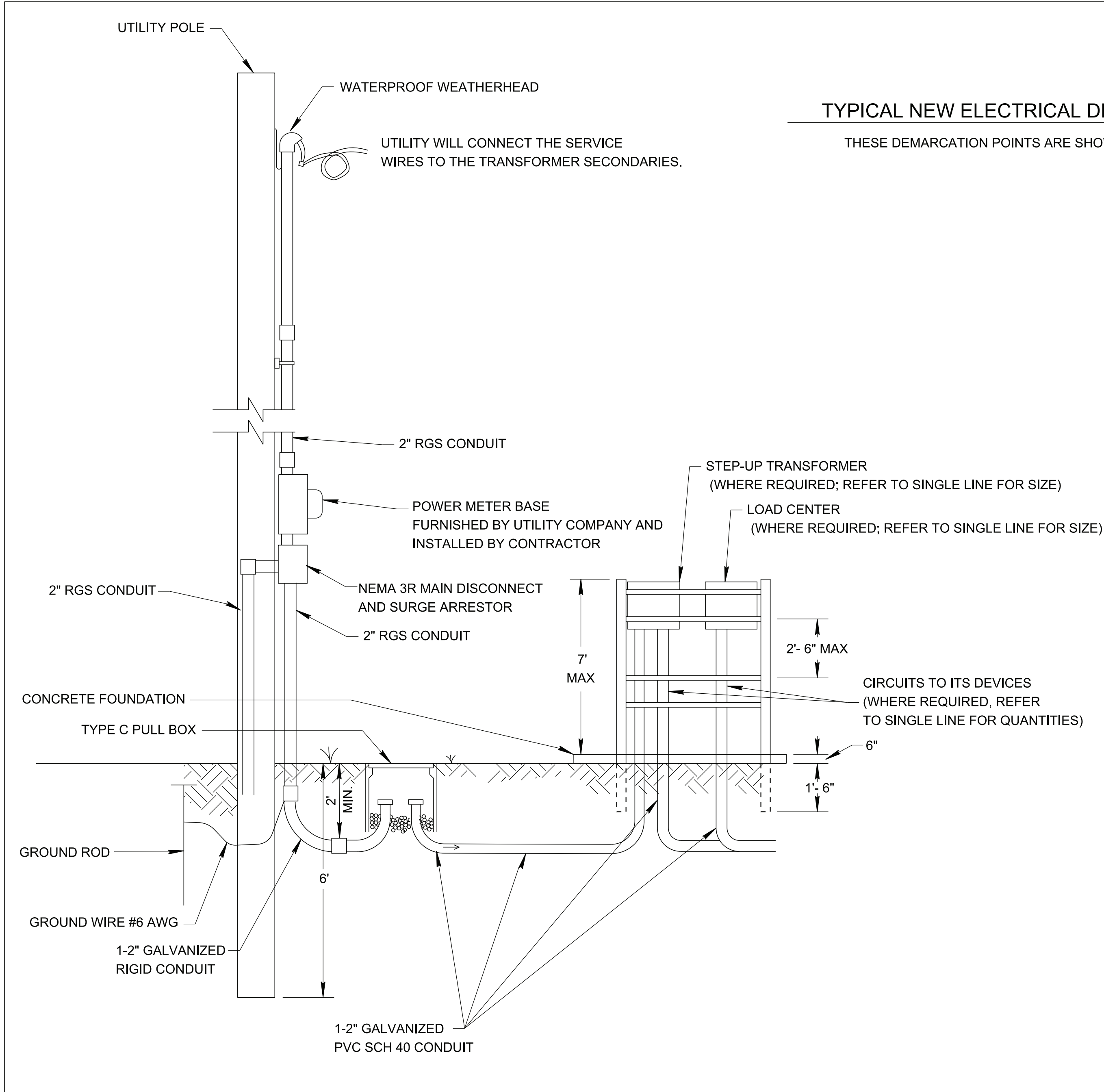


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS  
EQUIPMENT BLOCK  
DIAGRAM

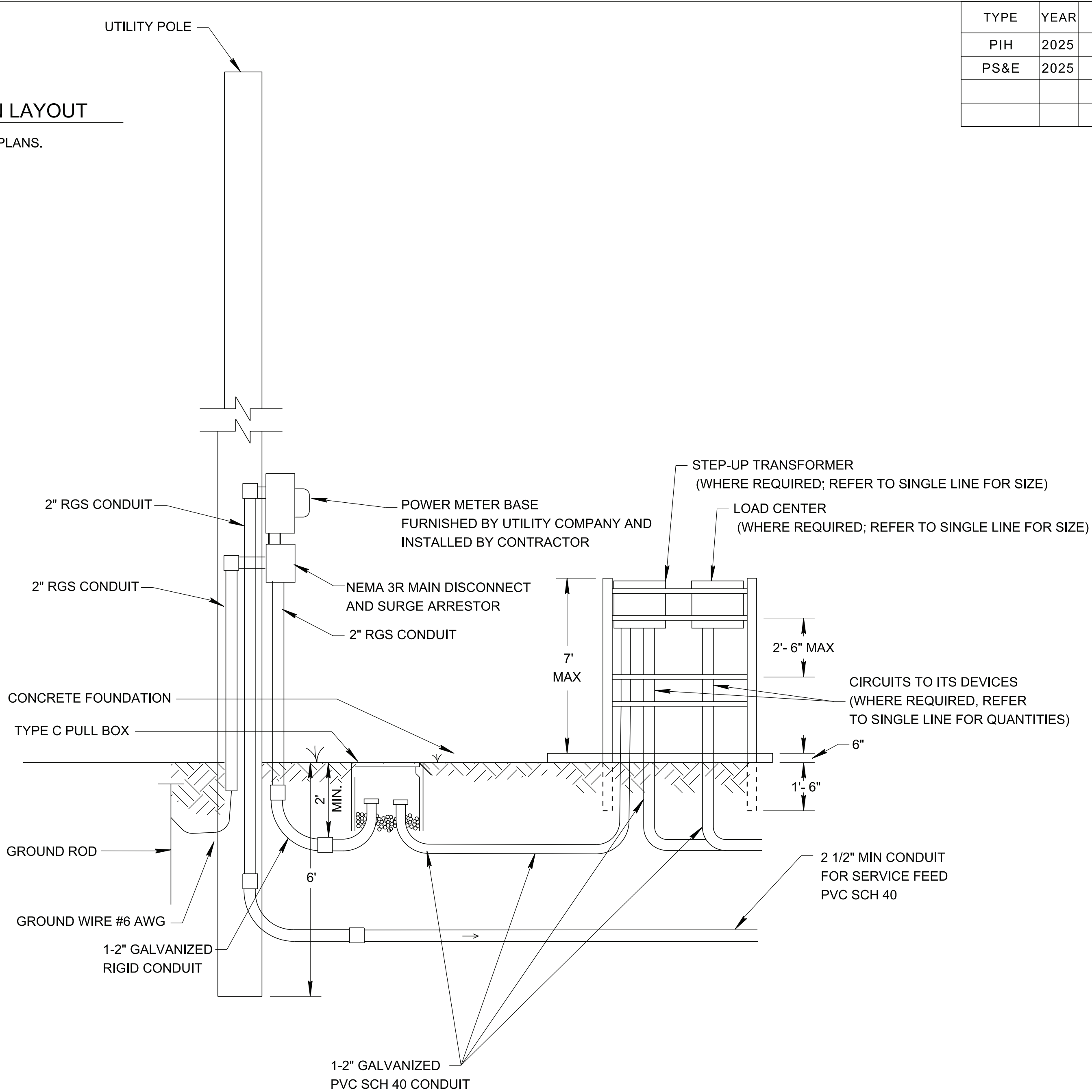


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OVERHEAD DEMARCATION ARRANGEMENT

N.T.S.



UNDERGROUND DEMARCATION ARRANGEMENT

N.T.S.

GENERAL NOTES:

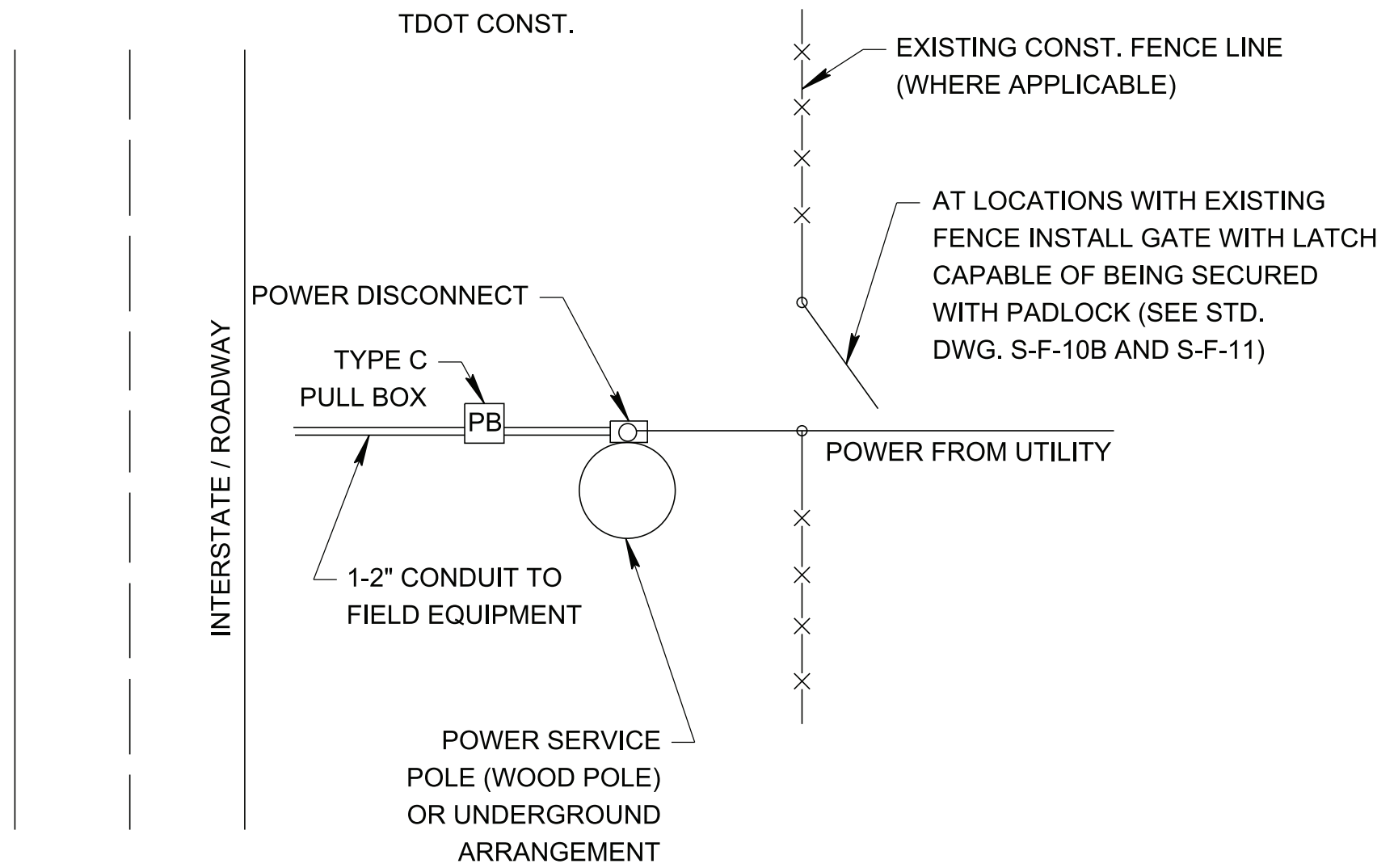
- CONTACT POWER CO. ENGINEER FOR THE LOCATION OF CONDUIT ON POLE PRIOR TO CONSTRUCTION.
- ENTIRE INSTALLATION MUST MEET OR EXCEED ALL LOCAL AND NATIONAL ELECTRICAL CODES.
- SERVICE WIRE SHALL ENTER DISCONNECT SWITCH PRIOR TO CABINET HOME RUN.
- FOR LOCATION OF POWER SERVICE POLE SEE PLAN SHEETS.
- CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE AGENCIES TO OBTAIN 911 STREET ADDRESSES FOR EACH DEMARCATION POINT.

POWER POLE NOTES:

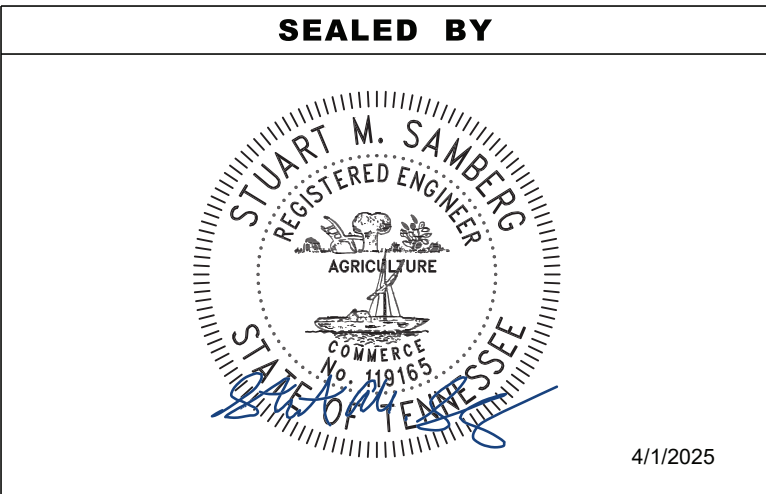
- ATTACH CONDUIT TO WOOD POLE. MAXIMUM DISTANCE BETWEEN FASTENERS IS 5'.
- INSTALL CONDUCTORS THROUGH THE WEATHERHEAD, WITH A MINIMUM OF 10' OF CONDUCTORS OUT OF THE WEATHERHEAD, COILED AT TOP OF POLE.
- ATTACH RIGID METAL CONDUIT TO POLE GROUNDING SYSTEM WITH #6 BARE COPPER WIRE.

DEMARCATION NOTES:

- CONTRACTOR SHALL INSTALL METER BASES FOR ALL DEMARCATION POINTS. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY TO ENSURE THE CORRECT METER BASE IS USED.



TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2H
PS&E	2025	99BVAR-F3-024	2H



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DEMARCATION  
DETAILS

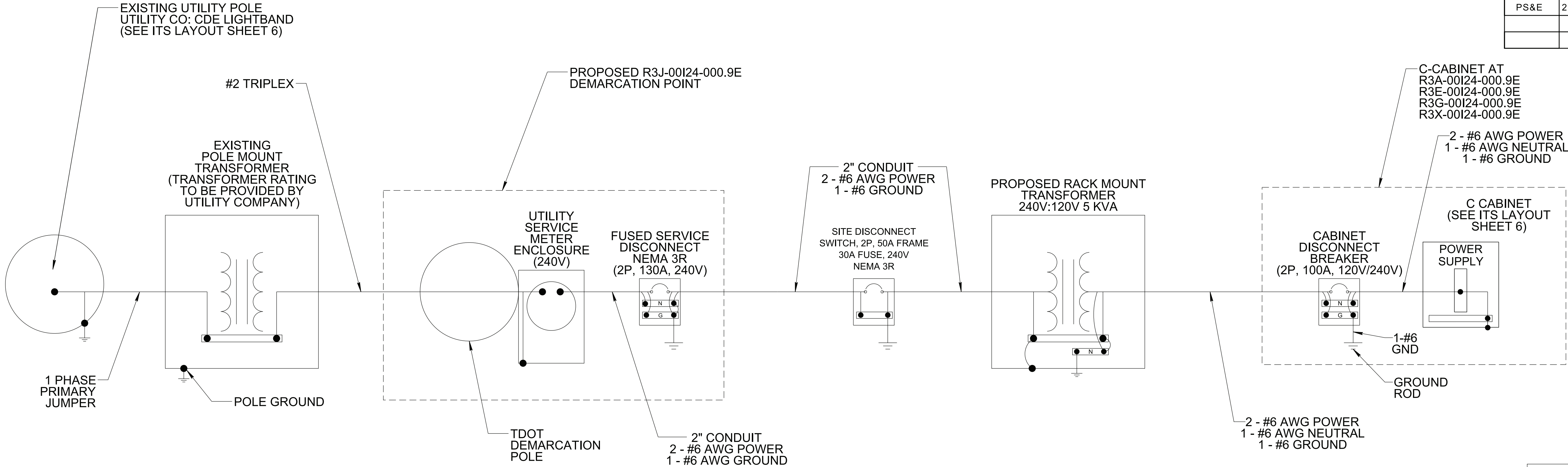






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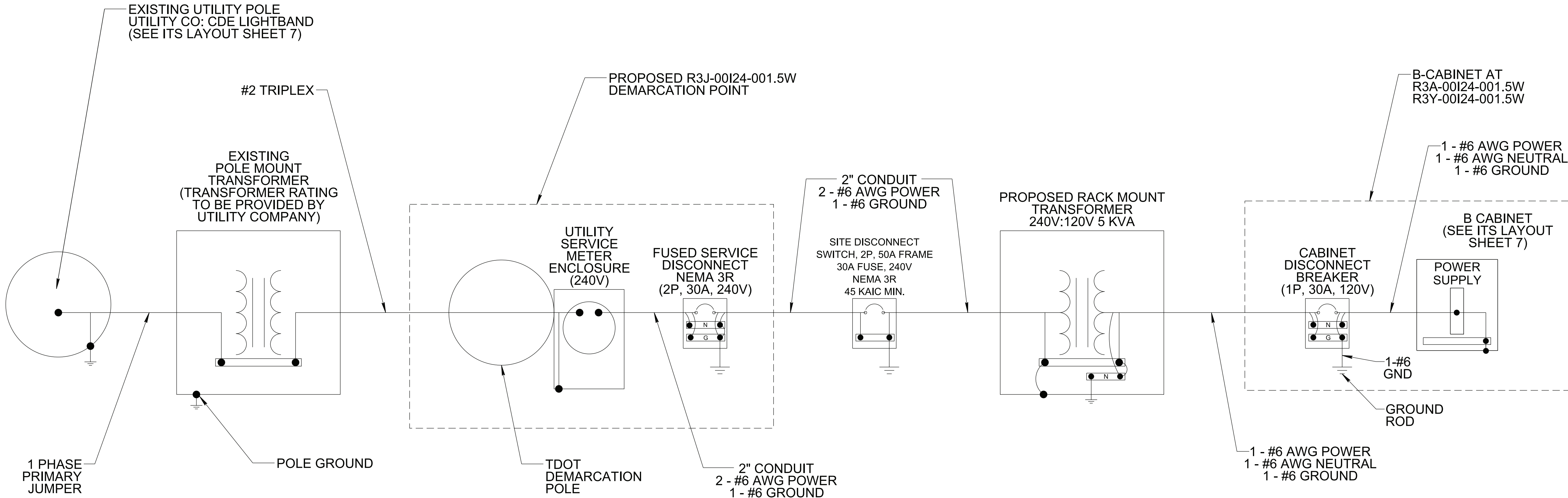
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2H2
PS&E	2025	99BVAR-F3-024	2H2



NOTES:

- 1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAILS FOR REQUIREMENTS.
- 2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

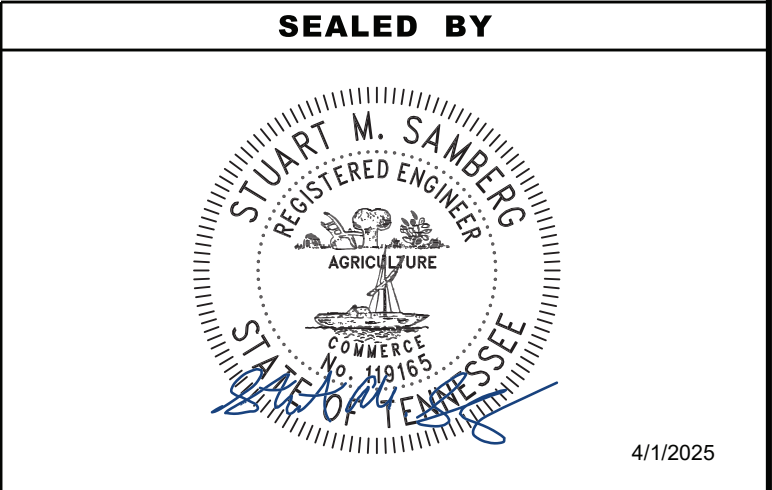
SITE 2A  
PROPOSED R3A-00I24-000.9E  
PROPOSED R3E-00I24-000.9E  
PROPOSED R3G-00I24-000.9E  
PROPOSED R3X-00I24-000.9E



NOTES:

- 1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAILS FOR REQUIREMENTS.
- 2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

SITE 2B  
PROPOSED R3A-00I24-001.5W  
PROPOSED R3Y-00I24-001.5W

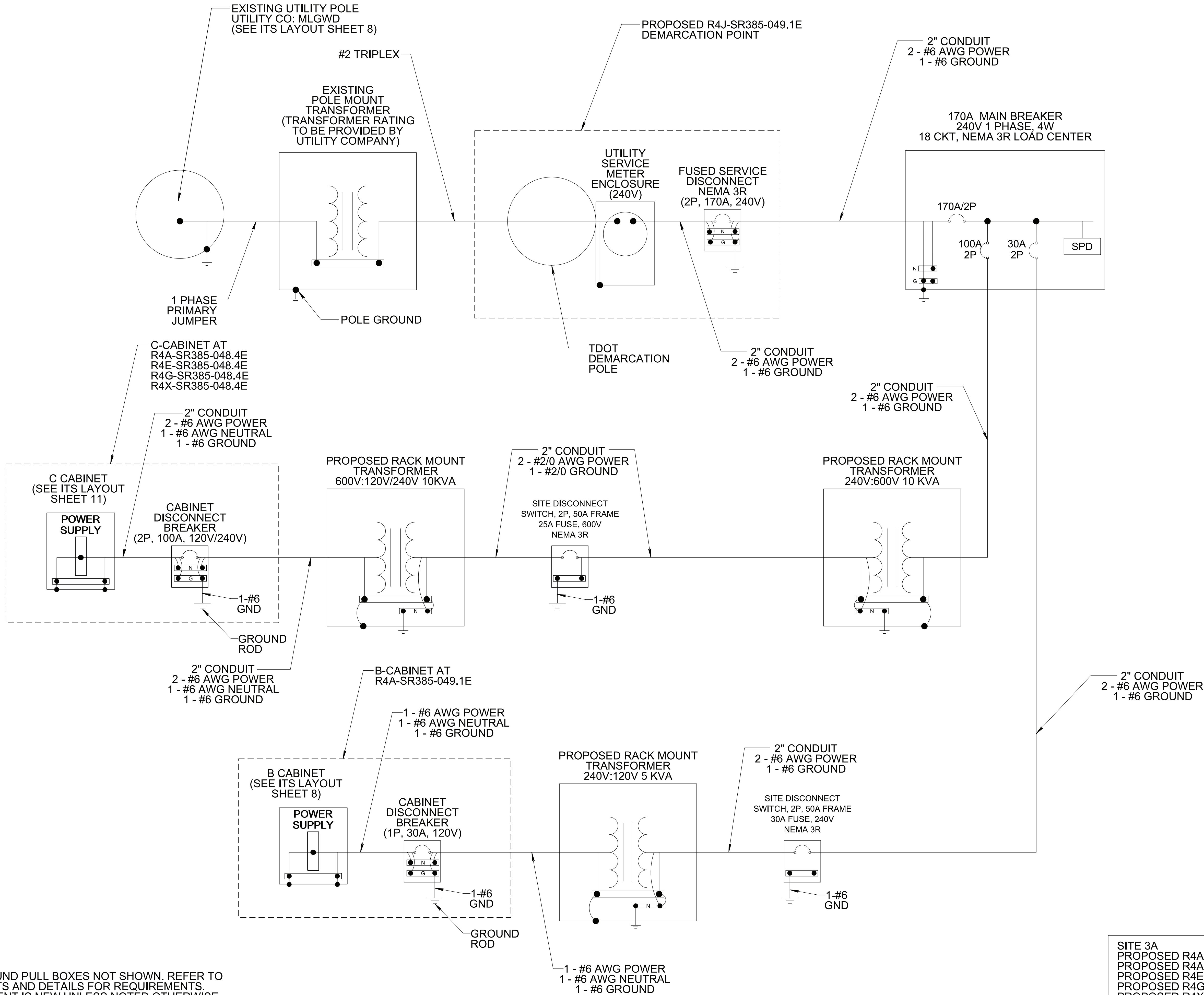


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

POWER SERVICE  
DETAILS

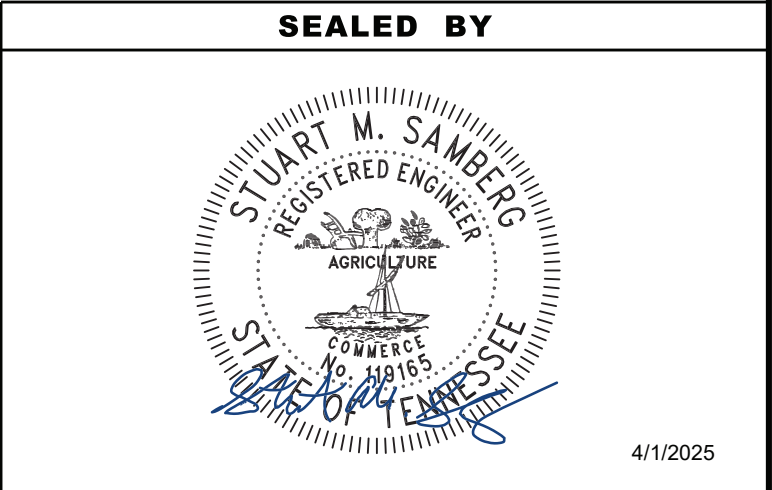


TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2H3
PS&E	2025	99BVAR-F3-024	2H3



NOTES:  
1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAILS FOR REQUIREMENTS.  
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

SITE 3A  
PROPOSED R4A-SR385-049.1E  
PROPOSED R4A-SR385-048.4E  
PROPOSED R4E-SR385-048.4E  
PROPOSED R4G-SR385-048.4E  
PROPOSED R4X-SR385-048.4E



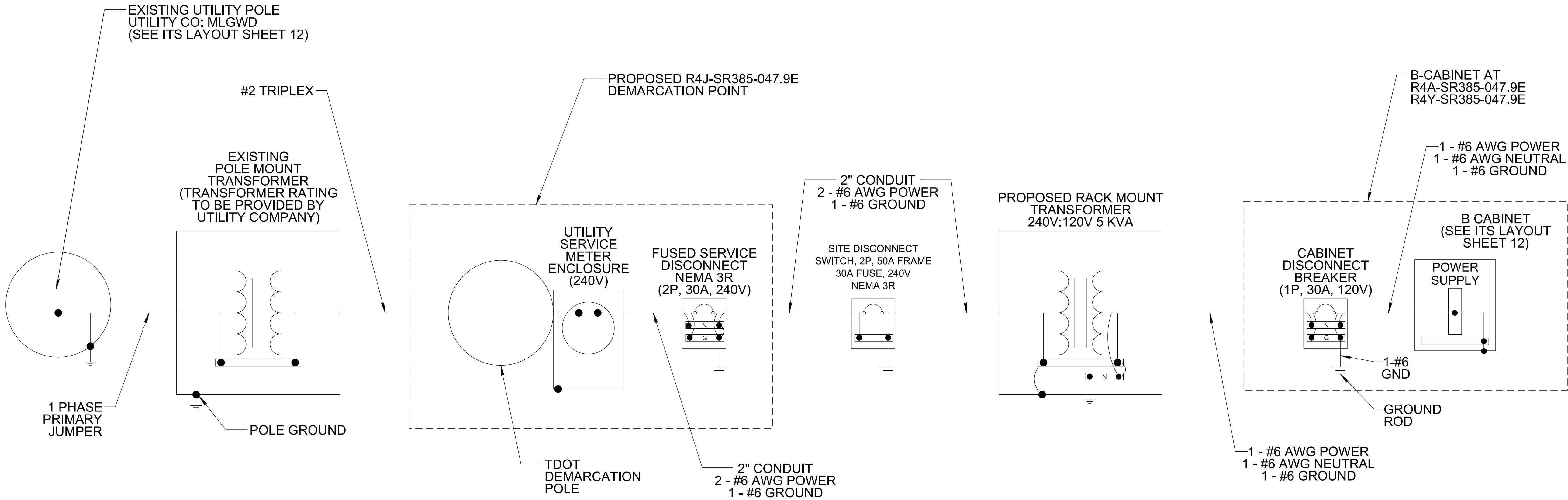
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

POWER SERVICE  
DETAILS



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	2H4
PS&E	2025	99BVAR-F3-024	2H4



- NOTES:
1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAILS FOR REQUIREMENTS.
  2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

SITE 3B  
PROPOSED R4A-SR385-047.9E  
PROPOSED R4Y-SR385-047.9E

SEALED BY

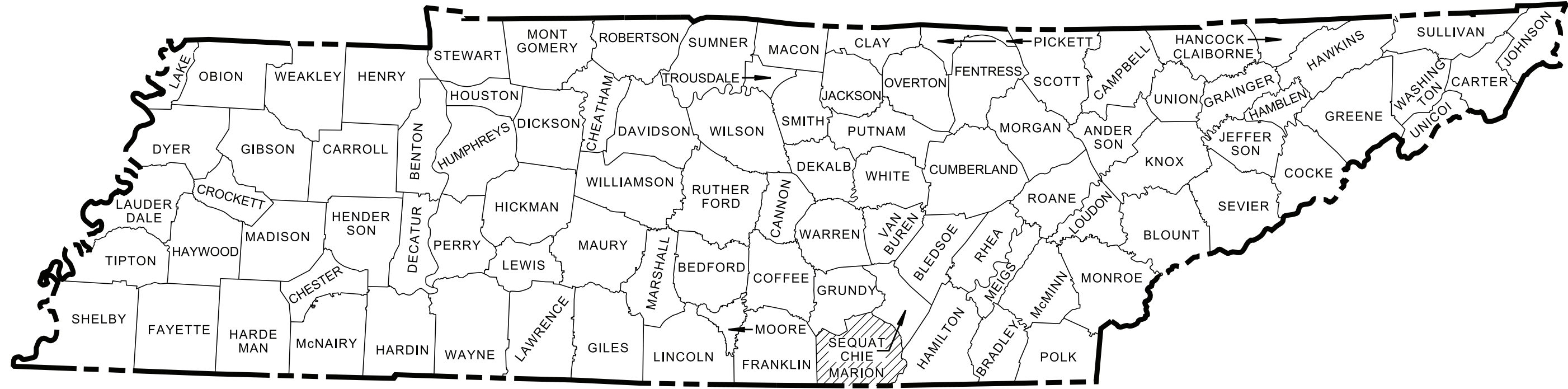
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

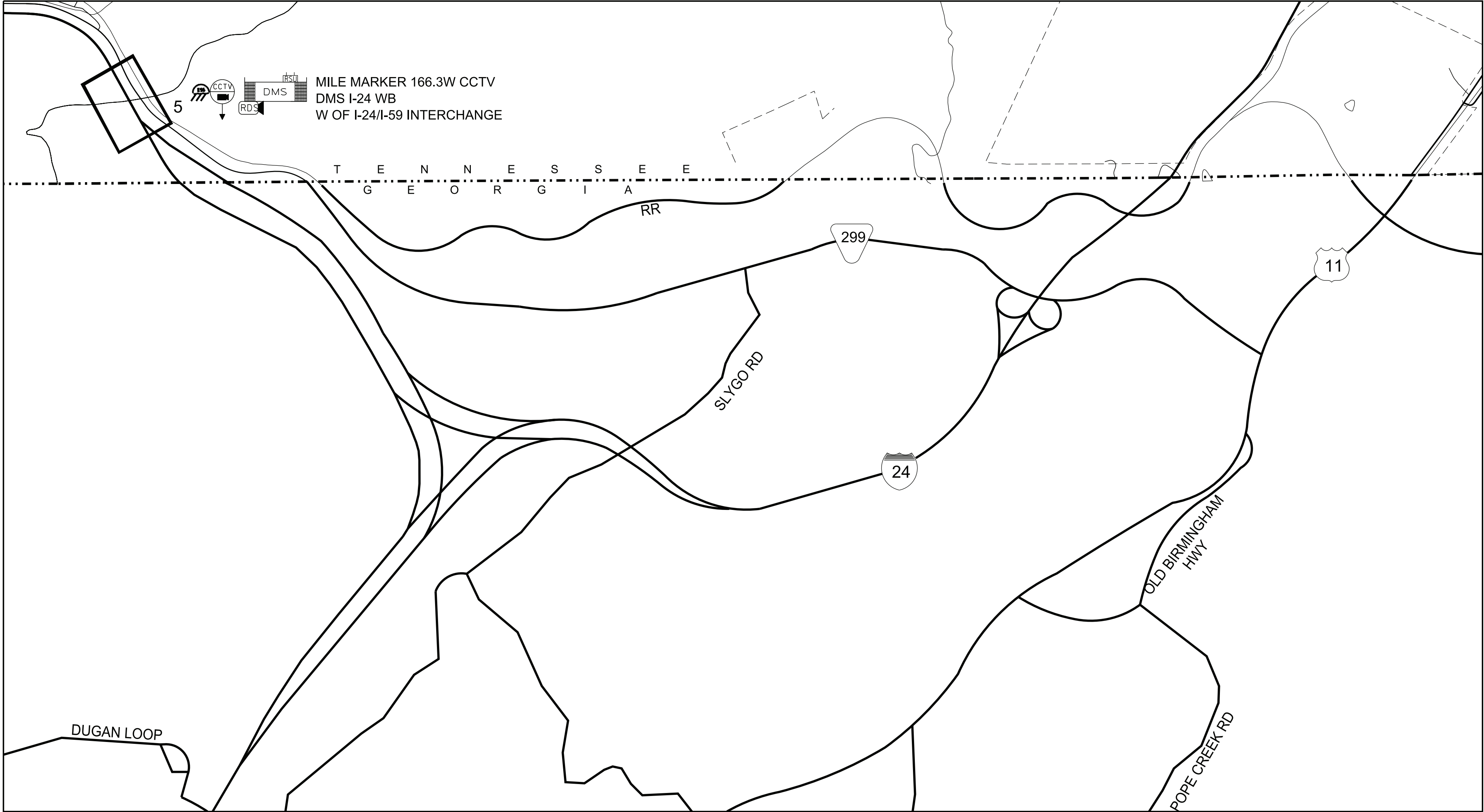
POWER SERVICE  
DETAILS



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SITE 1  
MARION COUNTY  
I-24



TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	4A
PS&E	2025	99BVAR-F3-024	4A

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4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SHEET KEY  
AND  
ITS LAYOUT

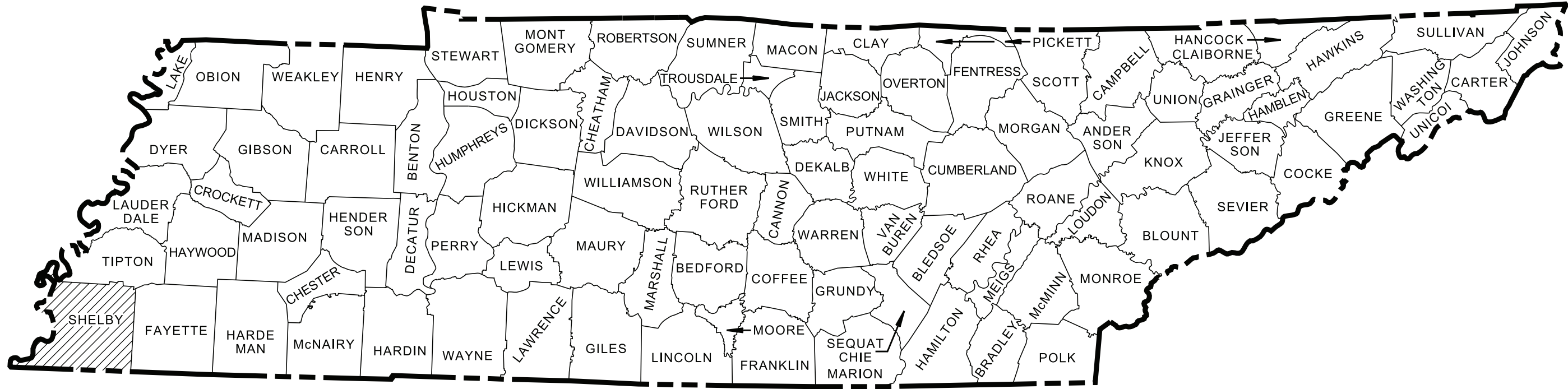




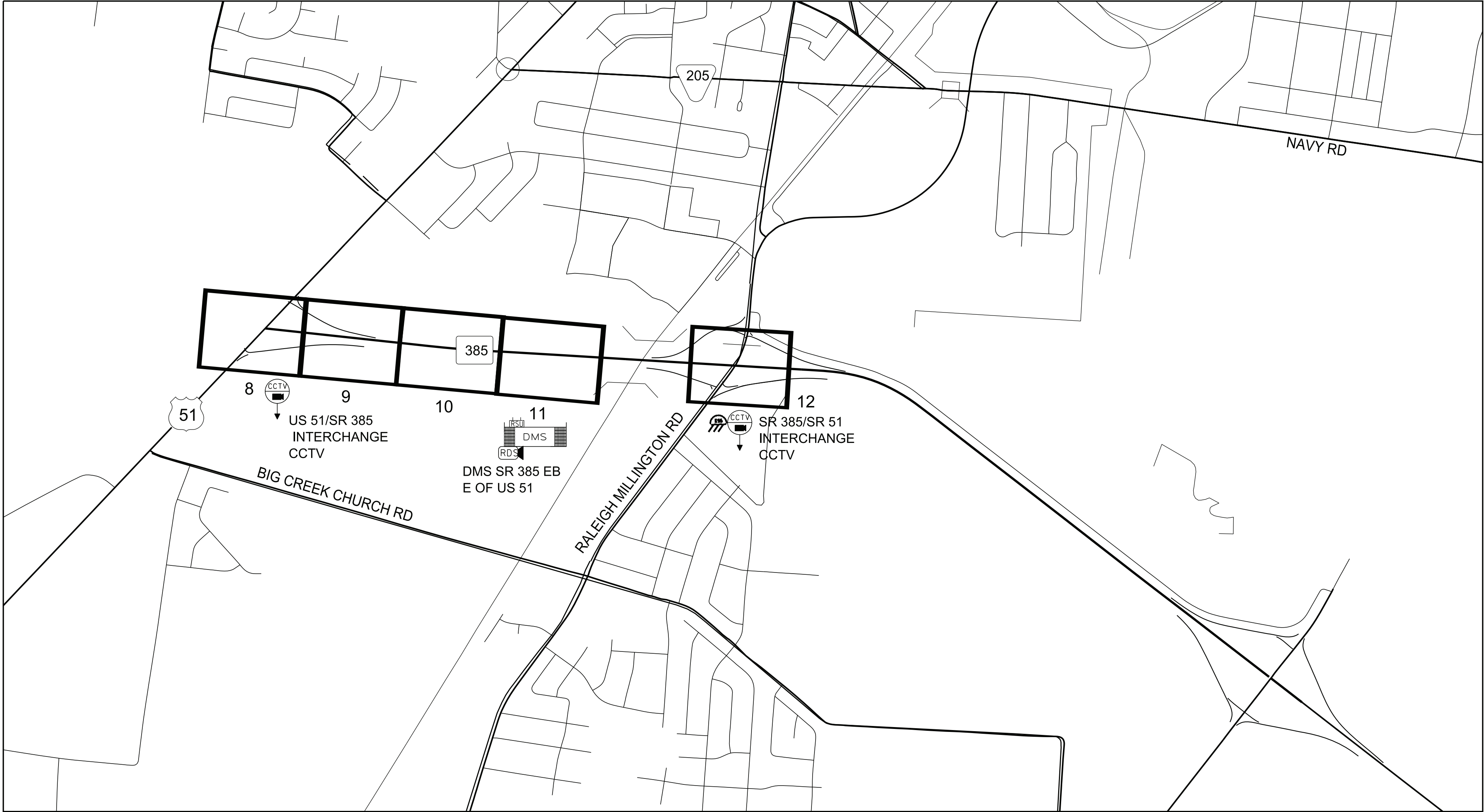


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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	4C
PS&E	2025	99BVAR-F3-024	4C



SITE 3  
SHELBY COUNTY  
SR 385



SEALED BY

4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SHEET KEY  
AND  
ITS LAYOUT



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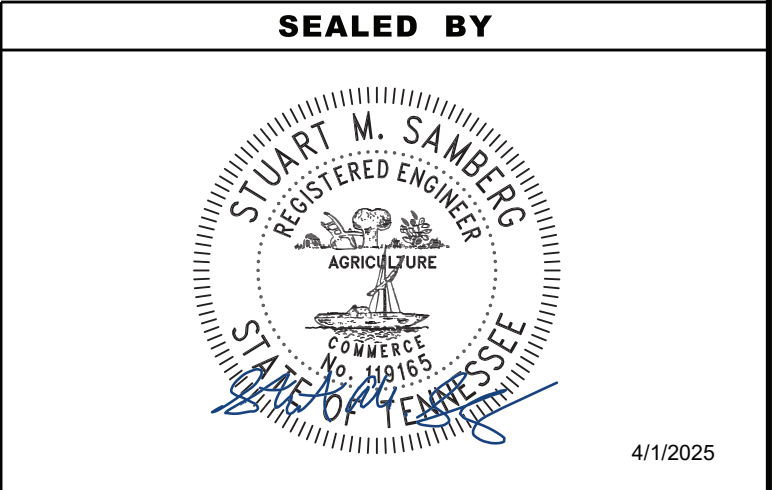


TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	5
PS&E	2025	99BVAR-F3-024	5

## SITE 1 MARION COUNTY I-24

### NOTE:

1. REEL-TO-REEL SPLICES ANTICIPATED AT TYPE D PULL BOXES ADJACENT TO CABINETS.



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT  
SITE 1

PIN NO. 131998.01  
STA. 500+00 TO STA. 512+00  
SCALE: 1"=50'



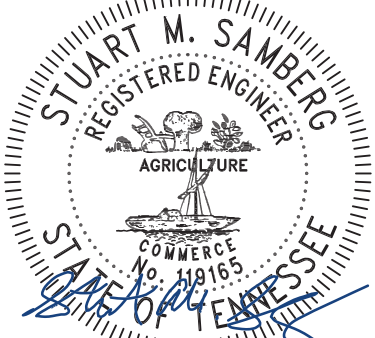
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	6
PS&E	2025	99BVAR-F3-024	6

SITE 2  
MONTGOMERY  
COUNTY  
I-24

SEALED BY



4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT  
SITE 2

PIN NO. 131998.01  
STA. 336+00 TO STA. 349+00  
SCALE: 1"=50'



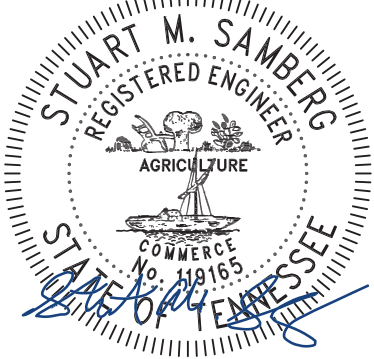
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	7
PS&E	2025	99BVAR-F3-024	7

SITE 2  
MONTGOMERY  
COUNTY  
I-24

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4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SITE 2

PIN NO. 131998.01  
STA. 368+50 TO STA. 381+50  
SCALE: 1"=50'



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	8
PS&E	2025	99BVAR-F3-024	8

SITE 3  
SHELBY COUNTY  
SR 385



SEALED BY

STUART M. SAMBERG  
REGISTERED ENGINEER  
4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT  
SITE 3

PIN NO. 131998.01  
STA. 100+00 TO STA. 109+50  
SCALE: 1"=50'



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MATCH LINE STA. 109+50 SEE SHT. NO. 8



1 - 3" CONDUIT, TRENCHED (510 LF)  
2 - #1/0 AWG POWER (520 LF)  
1 - #1/0 AWG GROUND (520 LF)

NOTES:

1. UTILITY CROSSINGS ON STREAMS AND/OR WETLANDS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITION.
2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT THE CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE IDENTIFIED WETLANDS, INTERMITTENT/PERENNIAL STREAMS, AND WET WEATHER CONVEYANCES/ EPHEMERAL STREAMS, AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

STR-1 (SHE); HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

PRESENT R.O.W (APPROX.)

SR 385 WESTBOUND

SR 385 EASTBOUND

PRESENT R.O.W (APPROX.)

1 - 3" CONDUIT, TRENCHED (460 LF)  
2 - #1/0 AWG POWER (480 LF)  
1 - #1/0 AWG GROUND (480 LF)

WWC-1/UDF-1 (SHE)

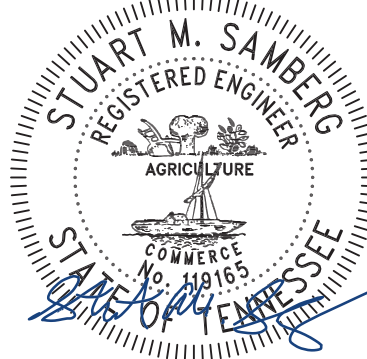
1 - 3" CONDUIT, BORED (395 LF)  
2 - #1/0 AWG POWER (405 LF)  
1 - #1/0 AWG GROUND (405 LF)

MATCH LINE STA. 123+00 SEE SHT. NO. 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	9
PS&E	2025	99BVAR-F3-024	9

SITE 3  
SHELBY COUNTY  
SR 385

SEALED BY



4/1/2025

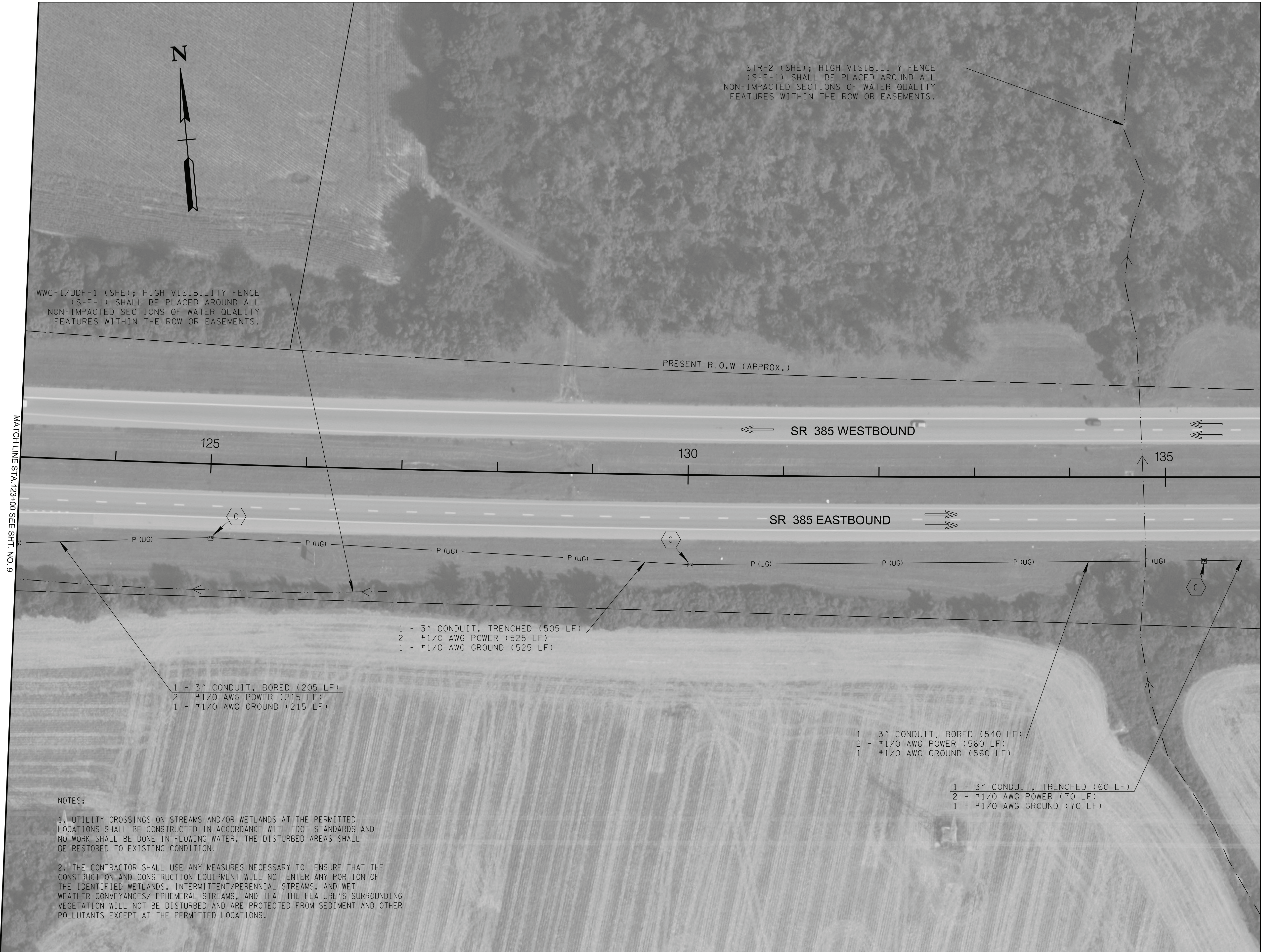
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT  
SITE 3

PIN NO. 131998.01  
STA. 109+50 TO STA. 123+00  
SCALE: 1"=50'

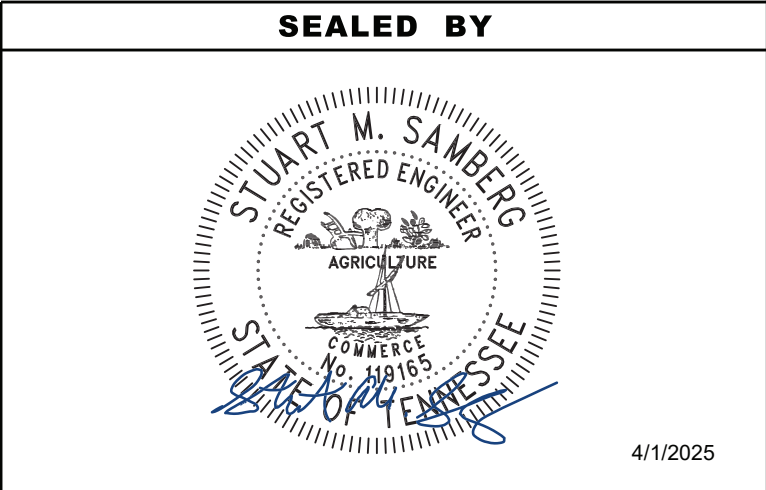


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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	10
PS&E	2025	99BVAR-F3-024	10

SITE 3  
SHELBY COUNTY  
SR 385



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT  
SITE 3

PIN NO. 131998.01  
STA. 123+00 TO STA. 136+00  
SCALE: 1"=50'



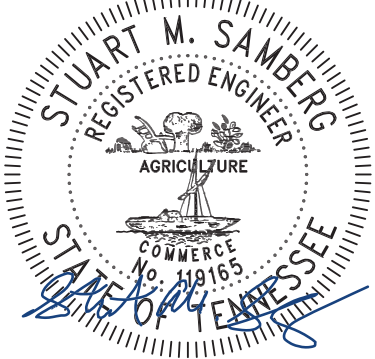
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	11
PS&E	2025	99BVAR-F3-024	11

SITE 3  
SHELBY COUNTY  
SR 385

SEALED BY



4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

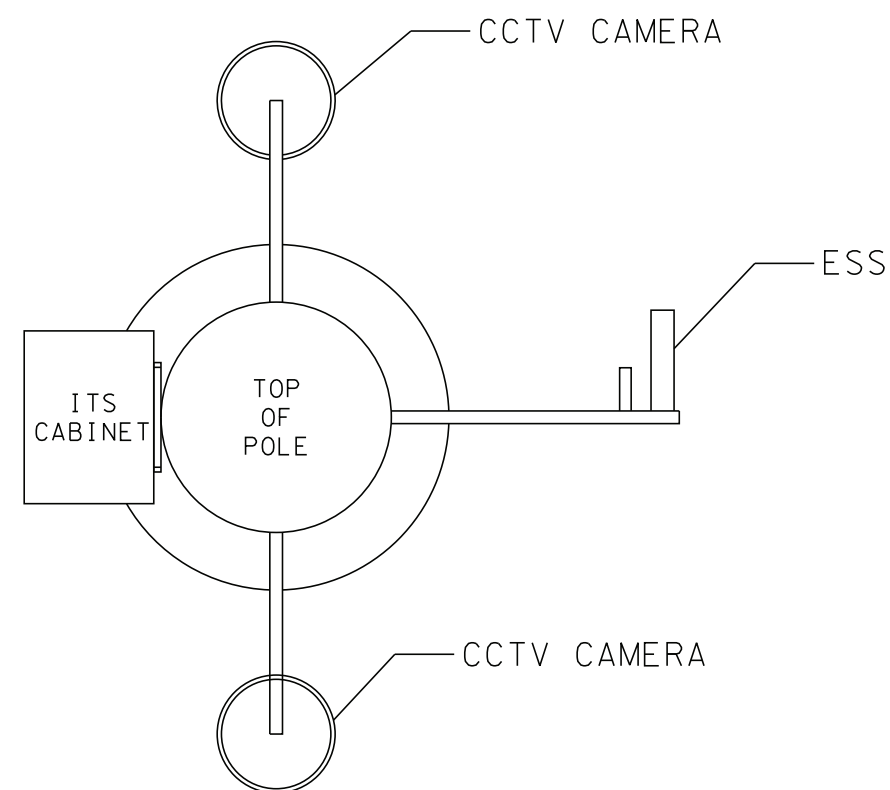
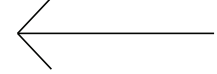
ITS LAYOUT  
SITE 3

PIN NO. 131998.01  
STA. 136+00 TO STA. 149+00  
SCALE: 1"=50'



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DIRECTION OF TRAVEL (SR-385)



DIRECTION OF TRAVEL (SR-385)



DEVICE ORIENTATION DIAGRAM

N



PROP. \*CCTV R4A-SR385-047.9E  
PROP. \*CCTV R4B-SR385-047.9E  
PROP. \*ESS R4Y-SR385-047.9E  
STA. 169+22  
OFF. 5.08' LT  
TYPE B CABINET  
80' CCTV POLE  
TYPE A NETWORK SWITCH  
WIRELESS CONNECTION  
REFER TO DEVICE ORIENTATION  
DIAGRAM FOR DEVICE PLACEMENT

STR-3  
(SHE)

SR 385 WESTBOUND

EXISTING GUARDRAIL  
TO REMAIN

SR 385 EASTBOUND

1 - 2" CONDUIT, BORED (70 LF)  
2 - #6 AWG POWER (90 LF)  
1 - #6 AWG GROUND (90 LF)

1 - 2" CONDUIT, BORED (60 LF)  
2 - #6 AWG POWER (80 LF)  
1 - #6 AWG GROUND (80 LF)

1 - 2" CONDUIT, TRENCHED (110 LF)  
2 - #6 AWG POWER (130 LF)  
1 - #6 AWG GROUND (130 LF)

PROP. DEMARC \*R4J-SR385-047.9E  
STA. 167+81  
OFF. 136.31' RT

NOTES:

1. UTILITY CROSSINGS ON STREAMS AND/OR WETLANDS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITION.

2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT THE CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE IDENTIFIED WETLANDS, INTERMITTENT/PERENNIAL STREAMS, AND WET WEATHER CONVEYANCES/ EPHEMERAL STREAMS, AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

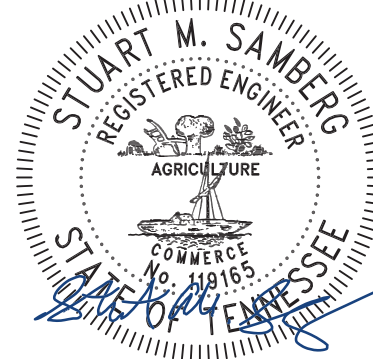
RALEIGH MILLINGTON ROAD

PRESENT R.O.W (APPROX.)

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	99BVAR-F3-024	12
PS&E	2025	99BVAR-F3-024	12

SITE 3  
SHELBY COUNTY  
SR 385

SEALED BY



4/1/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT  
SITE 3

PIN NO. 131998.01  
STA. 162+00 TO STA. 175+00  
SCALE: 1"=50'



Index Of Sheets	
SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITIES OWNERS AND UTILITY SHEETS	U1-1A

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

BUREAU OF ENGINEERING

MARION COUNTY

RURAL DEPLOYMENTS PROGRAM

ITS

INTERSTATE 24

THERE ARE NO UTILITIES IN CONFLICT WITH THIS PROJECT

STANDARD LEGEND	
<u>EXISTING UTILITIES</u>	
POWER ——— P ——— .	POWER POLE ⦿
TELEPHONE ——— T ——— .	TELEPHONE POLE ⦿
WATER ——— W ——— .	POWER/TELEPHONE POLE ⦿
CABLE TV ——— C ——— .	MANHOLE ⦿
SANITARY SEWER ——— SA ———	WATER METER ⦿ W.M.
UNDERGROUND TELEPHONE ——— T (UG) ———	WATER VALVE ⦿ W.V.
GAS ——— G ———	LIGHT POLE ⦿-⦿
FORCE MAIN SEWER - ——— FMS ———	POWER POLE ● P
UNDERGROUND POWER ——— P (UG) ———	TELEPHONE POLE ● T
UNDERGROUND FIBER OPTIC ——— F (UG) ———	WATER METER ■ W.M.
<u>PROPOSED UTILITIES &amp; MODIFICATIONS</u>	
POWER ——— P ———	(R) REMOVE
UNDERGROUND POWER ——— P (UG) ———	(RIP) RETIRE IN PLACE
TELEPHONE ——— T ———	
WATER ——— W ———	
CABLE TV ——— C ———	
SANITARY SEWER ——— SA ———	
UNDERGROUND TELEPHONE ——— T (UG) ———	
GAS ——— G ———	
FORCE MAIN SEWER ——— FMS ———	
UNDERGROUND FIBER OPTIC ——— F (UG) ———	
EX. WATER LINE ——— - 6" W RIP ———	
(RETIRED IN PLACE)	
EX.GAS LINE ——— - 8" G RIP ———	
(RETIRED IN PLACE)	
EX.SEWER LINE ——— - 8" FMS RIP ———	
(RETIRED IN PLACE)	
EX.TELEPHONE LINE ——— - T(UG) RIP ———	
(RETIRED IN PLACE)	

SPECIAL NOTES

SOME UTILITIES CAN BE LOCATED BY CALLING THE  
TENNESSEE ONE CALL SYSTEM, INC.  
AT 1-800-351-1111

UTILITY OWNERS AND CONTACTS:		
ELECTIC: ELECTRIC POWER BOARD OF CHATTANOOGA PO BOX 182255 CHATTANOOGA, TN 37422 ADAM NORWOOD NORWOODAW@EPB.NET O: 423-648-3305		

NOTE TO CONTRACTORS	UNDERGROUND UTILITIES NOTE	NOTE TO CONTRACTORS
CONTRACTOR TO FOLLOW ALL ADA RULES PERTAINING TO SIDEWALKS	ALL UNDERGROUND UTILITIES MUST BE DIRECTIONAL BORED UNDER ALL STREAMS IDENTIFIED IN THE PLANS	DIRECTIONAL BORING MUST BE PLACED A MINIMUM OF 50' AWAY FROM STREAM BANKS

TENN.	YEAR	SHEET NO.
	2025	U1-1A
STATE PROJ. NO.	99BVAR-F3-024	
FED. PROJ. NO.	CRP-9900(170)	



Index Of Sheets	
SHEET NAME	SHEET NUMBER
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STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

BUREAU OF ENGINEERING













MONTGOMERY COUNTY

RURAL ITS DEPLOYMENT IN MONTGOMERY COUNTY

STATE HIGHWAY SR-48/ F.A.H.S I-24

THERE ARE NO UTILITIES IN CONFLICT WITH THIS PROJECT

TENN.	YEAR	SHEET NO.
	2025	U1-1B
STATE PROJ. NO.	99BVAR-F3-024	
FED. PROJ. NO.	CRP-9900(170)	

STANDARD LEGEND	
EXISTING UTILITES	
POWER _____ P _____	POWER POLE 
TELEPHONE _____ T _____	TELEPHONE POLE 
WATER _____ W _____	
CABLE TV _____ C _____	
SANITARY SEWER _____ SA _____	POWER/TELEPHONE POLE 
UNDERGROUND TELEPHONE _____ T (UG) _____	
GAS _____ G _____	MANHOLE 
FORCE MAIN SEWER _____ FMS _____	WATER METER 
UNDERGROUND POWER _____ P (UG) _____	WATER VALVE 
UNDERGROUND FIBER OPTIC _____ F (UG) _____	LIGHT POLE 
PROPOSED UTILITIES & MODIFICATIONS	
POWER _____ P _____	
UNDERGROUND POWER _____ P (UG) _____	
TELEPHONE _____ T _____	
WATER _____ W _____	POWER POLE 
CABLE TV _____ C _____	TELEPHONE POLE 
SANITARY SEWER _____ SA _____	
UNDERGROUND TELEPHONE _____ T (UG) _____	
GAS _____ G _____	WATER METER 
FORCE MAIN SEWER _____ FMS _____	
UNDERGROUND FIBER OPTIC _____ F (UG) _____	
EX. WATER LINE (RETIRED IN PLACE) ----- 8" W RIP -----	 REMOVE
EX.GAS LINE (RETIRED IN PLACE) ----- 8" G RIP -----	
EX.SEWER LINE (RETIRED IN PLACE) ----- 8" FMS RIP -----	 RETIRE IN PLACE
EX.TELEPHONE LINE (RETIRED IN PLACE) ----- T(UG) RIP -----	

SPECIAL NOTES

SOME UTILITIES CAN BE LOCATED BY CALLING THE  
TENNESSEE ONE CALL SYSTEM, INC.  
AT 1-800-351-1111

UTILITY OWNERS AND CONTACTS:

FIBER CDE LIGHTBAND POWER: 2021 WILMA RUDOLPH BLVD CLARKSVILLE, TN 37040 CHRIS WILLIAMS CHRIS.WILLIAMS@CDELIGHTBAND.COM O: 931-320-9697	PHONE: AT&T 116 SOUTH CANNON AVENUE MURFREESBORO, TN 37129 KENNETH LEE KORNEGAY KK4096@ATT.COM O: 615-848-2082	CABLE: CHARTER 1850 BUSINESS PARK DR. STE 101 CLARKSVILLE, TN 37040 MICHAEL BLEVINS MICHAEL.BLEVINS@CHARTER.COM C: 931-241-8441
GAS CITY OF CLARKSVILLE WATER 2215 MADISON ST. SEWER: CLARKSVILLE, TN 37043 BEN BROWDER BEN.BROWDER@CITYOFCLARKSVILLE.COM O: 931-645-7418 EXT. 1309	FIBER: ZAYO BANDWIDTH 820 FESSLERS PARKWAY, STE 240 NASHVILLE, TN 37210 JAMES BLACK JAMESR.BLACK@ZAYO.COM C: 719-216-8508	

NOTE TO CONTRACTORS

CONTRACTOR TO FOLLOW  
ALL ADA RULES PERTAINING  
TO SIDEWALKS

UNDERGROUND UTILITIES NOTE

ALL UNDERGROUND UTILITIES MUST  
BE DIRECTIONAL BORED UNDER ALL  
STREAMS IDENTIFIED IN THE PLANS

NOTE TO CONTRACTORS

DIRECTIONAL BORING MUST  
BE PLACED A MINIMUM OF 50'  
AWAY FROM STREAM BANKS



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UTILITIES INDEX, UTILITIES OWNERS, AND UTILITIES SHEETS;	U1-1C
PIN: 131998.01	

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING

SHELBY COUNTY

RURAL ITS DEPLOYMENT IN MARION, MONTGOMERY  
AND SHELBY COUNTIES,

STATE HIGHWAY NO. 385      F.A.H.S. NO. N/A

CONTRACT TYPE	UTILITY	UTILITY OWNERS & CONTACTS:	CONTRACT TYPE	UTILITY	UTILITY OWNERS & CONTACTS:
NO CONFLICT	ELECTRIC GAS WATER	MLG&W DARRYL MCLEMORE 220 SOUTH MAIN ST. MEMPHIS, TN 38103 901-502-6207 dmclemore@mlgw.org	NO CONFLICT	FIBER OPTIC	RITTER COMMUNICATIONS BRANDON HOY MILLINGTON, TN 38053 901-221-9461 brandon.hoy@rittercommunications.com
NO CONFLICT	TELEPHONE FIBER OPTIC	AT&T DANIEL POTTS 315 E. MAIN STREET JACKSON, TN. 38301 901-488-2359 dp7607@att.com	NO CONFLICT	GAS	VALERO ALLEN WAGERS 1 VALERO WAY SAN ANTONIO, TX 78249 210-345-2876 allen.wagers@valero.com
NO CONFLICT	CATV	COMCAST ANDREW SMITH 5450 WINCHESTER ROAD MEMPHIS, TN 30115 901-208-6380 andrew_smith@comcast.com	NO CONFLICT	GAS	TEXAS GAS TRANSMISSION CORP. JOY PARROT 610 WEST 2ND STREET OWENSBORO, KY 42302 985-246-9736 joy.parrott@bwpipelines.com
NO CONFLICT	SEWER	CITY OF MEMPHIS SEWER FARAEDOON QALADIZE 125 N. MAIN ST. ROOM 608 MEMPHIS, TN 38103 901-576-6725 Faraedoon.Qaladize@memphistn.gov			
NO CONFLICT	ELECTRIC TRANSMISSION	TVA STEPHEN WILLIAMS 1101 MARKET ST. MR. 4B-G CHATTANOOGA, TN 37402 423-751-2213 rowcustomer@tva.gov			

SPECIAL NOTES

SOME UTILITIES CAN BE LOCATED BY CALLING THE  
TENNESSEE ONE SYSTEM, INC. AT 1-800-351-1111.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	CRP-9900(170)	U1-1C
		-	

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

UTILITY INDEX  
AND  
UTILITY OWNERS