THIS DOCUMENT HAS BEN DIGITALLY SIGNED AND SEALED BY:

Stuart M Samberg

Digitally signed by Stuart M Samberg
Date: 2025.08.25 09:33:22-04'00'

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RK&K, LLP
222 SECOND AVENUE SOUTH
SUITE 1700
NASHVILLE, TN 37201

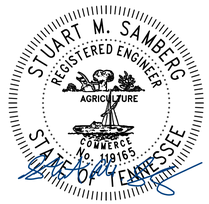
STUART SAMBERG, PE #119165, PTOE

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

YEAR	PROJECT NO.	SHEET NO.
2025	CRP-9900(174)	ITS-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET



THIS DOCUMENT HAS BEN DIGITALLY SIGNED AND SEALED BY:

Stuart M Samberg

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Date: 2025.08.25 09:36:18-04'00'

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STUART SAMBERG, PE #119165, PTOE

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

YEAR	PROJECT NO.	SHEET NO.
2025	CRP-9900(174)	ITS-SIGN2

REV. 8/25/2025:
1.) SHEET ADDED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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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(174)	
STATE PROJ. NO.	99IVAR-F3-004	

REV. 8/25/2025:
1.) CHIEF ENGINEER SIGNATURE UPDATED.

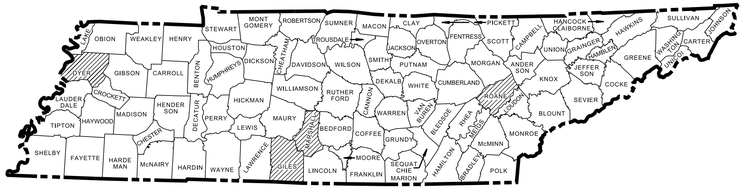
DYER, GILES, MARSHALL, AND ROANE COUNTIES

RURAL ITS DEPLOYMENT IN ROANE,
GILES, MARSHALL, AND DYER COUNTIES

PS&E PLANS

ITS

INTERSTATE 40, INTERSTATE 65, INTERSTATE 155



N

PS&E PLANS

SEALED BY

STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
No. 118165
8/25/2025

APPROVED:
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:
WILL REID, COMMISSIONER

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.

DYER COUNTY LENGTH	0.90 MILES
GILES COUNTY LENGTH	0.25 MILES
MARSHALL COUNTY LENGTH	0.53 MILES
ROANE COUNTY LENGTH	0.56 MILES
PROJECT LENGTH	2.24 MILES

TDOT PROJECT MANAGER: ANDREW PARR, P.E.
DESIGNED BY: RK&K
DESIGNER : JASON RASHID CHECKED BY STUART SAMBERG, PE
P.E. NO. 99IVAR-F3-004
PIN NO. 131998.02

8/24/2025 3:22:56 PM
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PS&E ROADWAY INDEX

STANDARD ROADWAY, STRUCTURES, AND TRAFFIC DESIGN DRAWINGS

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
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
10-101.00		**STANDARD ROADWAY DRAWINGS**
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND COSTRUCTION
10-106.00		**SAFETY DESIGN AND GUARDRAILS**
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
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
S-GR31-1	03-13-25	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-GRC-4	01-30-25	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET
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-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE
10-107.00		**EROSION PREVENTION AND SEDIMENT CONTROL**
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-19	04-01-08	CATCH BASIN PROTECTION

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-200.00		**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	I-BEAM BREAK-AWAY LARGE SIGN SUPPORT DETAILS
T-S-14	10-21-19	WF-BEAM BREAK-AWAY LARGE SIGN SUPPORT DETAILS
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
10-201.00		**SIGNALS**
T-SG-6	10-21-19	PEDESTRIAN SIGNAL DETAILS
T-SG-10	09-12-23	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
10-202.00		**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
10-204.00		**DESIGN-TRAFFIC CONTROL**
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-26-25	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12	03-26-25	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAY
T-WZ-15	03-26-25	INTERIOR LANE CLOSURE FOR EXPRESSWAYS AND FREEWAYS
T-WZ-18	03-26-25	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-61	03-26-25	ROLLING ROADBLOCK DETAIL FOR DIVIDED HIGHWAYS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR1	03-26-25	INTERCONNECTED PORTABLE BARRIER RAIL
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES

STANDARD STRUCTURES DRAWINGS

DWG.	REV.	DESCRIPTION
10-300.00		**NEW STRUCTURES**
STD-8-4	02-26-25	SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	1A
PS&E	2025	CRP-9900(174)	1A

REV. 8/25/2025:
1.) REVISION 1 SIGNATURE SHEET ADDED TO INDEX OF SHEETS

SEALED BY

STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
AND
STANDARD DRAWINGS

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 99IVAR-F3-004
	105-01	CONSTRUCTION STAKES, LINE AND GRADES	LS	1
(1)	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.	4220
(2)	209-09.01	SANDBAGS	BAG	60
(2)	209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	S.Y.	698
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	6
	705-06.01	W BEAM GR (TYPE 2) MASH TL-3	EACH	2325
	705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL-3	EACH	9
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	6
	705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	2
(18)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	4220
(3)	712-01	TRAFFIC CONTROL	LS	1
(3, 4)	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	4050
(3)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	370
(3, 5)	712-06	SIGNS (CONSTRUCTION)	S.F.	848
(3)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	3
(3)	712-04.50	BARRIER RAIL DELINEATOR	EACH	210
(3)	712-08.03	ARROW BOARD (TYPE C)	EACH	6
(3)	712-08.12	QUEUE PROTECTION TRUCK	DAY	20
(3, 18)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	10
	717-01	MOBILIZATION	LS	1
(6)	725-20.02	CCTV POLE & FOUNDATION (80 FT POLE W/ LWRNG DVICE)	EACH	3
(6)	725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH	3
(6, 7)	725-20.22	STEEL OVERHEAD SIGN STRUCTURE (SPANS 51 TO 70 FEET)	EACH	3
(6, 7)	725-20.31	STEEL SIGN STRUCTURE (MULTI-COLOR DMS)	EACH	1
(6, 8)	725-20.43	PULL BOX (TYPE C)	EACH	35
(6, 8)	725-20.44	PULL BOX (TYPE D)	EACH	5
(6, 8)	725-20.44	PULL BOX (TYPE E)	EACH	7
(6, 8)	725-20.46	PULL BOX (STRUCTURE MOUNTED)	EACH	5
(6)	725-20.55	CABLE (1/C #6 AWG.)	L.F.	1380
(6)	725-20.57	CABLE (1/C #2 AWG.)	L.F.	16090
(6)	725-20.58	CABLE (1/C #1/0 AWG.)	L.F.	10920
(6)	725-20.60	CABLE (1/C #3/0 AWG.)	L.F.	14760
(6, 9-15)	725-20.71	ELECTRICAL CONNECTION	LS	1
(6)	725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH	3
(6)	725-20.92	CCTV CAMERA SYSTEM (STATIC)	EACH	3
(6)	725-21.02	DYNAMIC MESSAGE SIGN (MULTI-COLOR)	EACH	4
(6, 20)	725-21.11	NETWORK SWITCH (TYPE A)	EACH	7
(6, 10-11, 16)	725-21.43	DEMARCATION SITE (OVERHEAD POWER)	EACH	5
(6)	725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH	7
(6)	725-21.87	ENVIRONMENTAL SENSOR COMM CABLE	L.F.	150
(6)	725-21.91	RADAR DETECTION SYSTEM	EACH	3
(6)	725-21.96	RDS COMM CABLE	L.F.	150
(6)	725-22.13	ENVIRONMENTAL SENSOR (PVMT TEMP & PRECIP)	EACH	3
(6, 17)	725-22.24	CONDUIT BANK (TYPE 4)	L.F.	1380
(6, 17)	725-22.50	DMS CONDUIT BANK	L.F.	300
(6, 17)	725-22.64	STRUCTURE CONDUIT BANK (TYPE 4)	L.F.	3000
(6, 17)	725-22.71	2IN CONDUIT	L.F.	55
(6, 17)	725-22.72	2IN CONDUIT BORED	L.F.	85
(6, 17)	725-22.73	2IN STRUCTURE CONDUIT	L.F.	45
(6, 17)	725-22.76	2IN CONDUIT STRUCTURE W/BANK	L.F.	3000
(6, 17)	725-22.78	3IN CONDUIT	L.F.	4725
(6, 17)	725-22.79	3IN CONDUIT BORED	L.F.	1850
(6, 17)	725-22.80	3IN CONDUIT W/BANK	L.F.	1380
(6)	725-23.01	ITS CABLE MARKER	EACH	30
(6)	725-23.16	FIBER OPTIC CABLE (144 F)	L.F.	1830
(6, 18)	725-23.21	FIBER OPTIC DROP CABLE (12F)	L.F.	150
(6)	725-23.26	FIBER OPTIC CLOSURE (12F)	EACH	2
(6)	725-23.31	FIBER OPTIC DROP PANEL (12F)	EACH	7

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 99IVAR-F3-004
(6)	725-24.02	CABINET (TYPE B)	EACH	3
(6)	725-24.03	CABINET (TYPE C)	EACH	4
(6)	725-24.21	PREVENTIVE MAINTENANCE FOR SYSTEM	LS	1
(6)	725-24.25	UNSCHEDULED MAINTENANCE LABOR	HR	25
(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)	725-24.54	NETWORK INTEGRATION	LS	1
(6)	725-24.55	AS-BUILT PLANS	LS	1
(6)	725-24.62	TRAINING	HR	12
(6, 21)	725-28.01	ROAD SIDE UNIT (RSU)	EACH	4
(19)	730-23.31	PEDESTAL POLE (TYPE B)	EACH	3
(2)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	300
(18)	801-01	SEEDING (WITH MULCH)	UNIT	18
(18, 22)	801-01.02	CROWN VETCH MIXTURE (WITH MULCH)	UNIT	6
(18)	801-03	WATER (SEEDING & SODDING)	M.G.	3

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2
PS&E	2025	CRP-9900(174)	2

REV. 8/25/2025:
1.) DESCRIPTIONS FOR THE FOLLOWING ITEM NO. HAVE BEEN ALTERED TO MATCH TDOT STANDARDS:
ITEM NO. 725-20.02
ITEM NO. 725-22.73
ITEM NO. 740-11.02
2.) QUANTITES FOR THE FOLLOWING ITEM NO. HAS BEEN ALTERED TO MATCH TDOT SPECIFICTIONS:
ITEM NO. 725-24.62

SEALED BY

STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 118165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	CRP-9900(174)	2A

FOOTNOTES

(1) ITEM INCLUDES ALL REQUIRED CLEARING, GRUBBING, REMOVAL, AND DISPOSAL OF ALL VEGETATION AND DEBRIS FOR PROPER CONDUIT, POLE, AND DEVICE INSTALLATION AND 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 DISCRIPTION AND SPECIFICATIONS FOR THESE ITEMS.

(7) ITEM INCLUDES SIGN STRUCTURE, FOUNDATION, CATWALK , AND ALL RELATED INCIDENTAL ITEMS, SEE SPECIAL PROVISIONS 725 FOR DISCRIPTION 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 2D2 FOR SERVICE PROVIDER DETAILS.

(11) CONTRACTOR TO ABIDE WITH ALL TDOT SPECIFICATIONS AND APPROPRIATE SERVICE PROVIDER. SPECIFICATIONS. SEE 2BF 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, FILLING HOLES, BLASTING, BUTT WRAP OR SINGLE GROUND ROD, MGNV, AND NUMBERING POLE.

(14) THIS PAY ITEM SHALL INCLUDE ALL COSTS INCURRED FROM SERIVCE 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 ENCOUNTERED.

(18) ITEM SHALL ONLY BE USED AT LOCATIONS APPROVED BY THE ENGINEER.

(19) ITEM SHALL ONLY BE USED AT LOCATIONS WITH STATIC CCTV CAMERA.

(20) TYPE A NETWORK SWITCHES SHALL BE USED AS A WIRELESS ROUTER FOR COMMUNICATION WITH REGIONAL TMCS AS NEEDED TO MAINTAIN DEVICE CONNECTIVITY.

(21) RSU SHALL BE COLLOCATED WITH DMS STRUCTURES AS SHOWN ON PROJECT PLANS.

(22) CROWN VETCH MIXTURE (WITH MULCH) SHALL BE USED ON SLOPES OF 3H:1V OR STEEPER AND OTHER AREAS, AS INDICATED IN THE PLANS, THAT ARE INACCESSIBLE FOR MOWING.

SEALED BY

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS
QUANTITIES

PROPOSED ITS QUANTITIES PER SHEET

		Region	1	1	1	3	3	3	3	4	4	4	4	
		Site	1	1	1	2	2	2	2	3	3	3	3	
PAY ITEM	DESCRIPTION	Unit/ Sheet No.	5	6	7	8	9	10	11	12	13	14	15	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.	1		1	1		1	1			1	1	7
209-05	SEDIMENT REMOVAL	C.Y.	10		10	10		10	10			10	10	70
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.		50	1920					550		550	1150	4220
209-09.01	SANDBAGS	BAG	6		12	12		6	12			6	6	60
209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	S.Y.	25		178	178		25	178			25	89	698
705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH			2	1			2				1	6
705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.			625	550		37.5	625			175	312.5	2325
705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL-3	EACH			2	2		1	2			1	1	9
705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH			2	1			2				1	6
705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH						1				1		2
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.		50	1920					550		550	1150	4220
712-01	TRAFFIC CONTROL	LS												1
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.												4050
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH												370
712-06	SIGNS (CONSTRUCTION)	S.F.												848
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH												3
712-04.50	BARRIER RAIL DELINEATOR	EACH												210
712-08.03	ARROW BOARD (TYPE C)	EACH												6
712-08.12	QUEUE PROTECTION TRUCK	DAY												20
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH												10
717-01	MOBILIZATION	LS												1
725-20.02	CCTV POLE & FOUNDATION (80 FT POLE W/ LWRNG DEVICE)	EACH	1					1				1		3
725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH	1					1				1		3
725-20.22	STEEL OVERHEAD SIGN STRUCTURE (SPANS 51 TO 70 FEET)	EACH			1	1			1					3
725-20.31	STEEL SIGN STRUCTURE (MULTI-COLOR DMS)	EACH											1	1
725-20.43	PULL BOX (TYPE C)	EACH	4	6	3	3	3	3	6	1		2	4	35
725-20.44	PULL BOX (TYPE D)	EACH			1	1			1				2	5
725-20.44	PULL BOX (TYPE E)	EACH	1		1	1		1	1			1	1	7
725-20.46	PULL BOX (STRUCTURE MOUNTED)	EACH								2	2	1		5
725-20.55	CABLE (1/C #6 AWG.)	L.F.	840					540						1380
725-20.57	CABLE (1/C #2 AWG.)	L.F.				1890	3000		4260	2190	2780	1970		16090
725-20.58	CABLE (1/C #1/0 AWG.)	L.F.	2850	4650	3420									10920
725-20.60	CABLE (1/C #3/0 AWG.)	L.F.								3285	4170	4245	3060	14760
725-20.71	ELECTRICAL CONNECTION*	LS												1
725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH	1					1				1		3
725-20.92	CCTV CAMERA SYSTEM (STATIC)	EACH			1	1			1					3
725-21.02	DYNAMIC MESSAGE SIGN (MULTI-COLOR)	EACH			1	1			1				1	4
725-21.11	NETWORK SWITCH (TYPE A)	EACH	1		1	1		1	1			1	1	7
725-21.43	DEMARCATION SITE (OVERHEAD POWER)	EACH	1				1	1	1	1				5
725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1	1		1	1			1	1	7
725-21.87	ENVIRONMENTAL SENSOR COMM CABLE	L.F.	50					50				50		150
725-21.91	RADAR DETECTION SISTEM	EACH	1					1				1		3
725-21.96	RDS COMM CABLE	L.F.	50					50				50		150
725-22.13	ENVIRONMENTAL SENSOR (PVMT TEMP & PRECIP)	EACH	1					1				1		3
725-22.24	CONDUIT BANK (TYPE 4)	L.F.										420	960	1380
725-22.50	DMS CONDUIT BANK	L.F.			75	75			75				75	300
725-22.64	STRUCTURE CONDUIT BANK (TYPE 4)	L.F.								865	1350	785		3000
725-22.71	2IN CONDUIT	L.F.						55						55
725-22.72	2IN CONDUIT BORED	L.F.						85						85
725-22.73	2IN STRUCTURE CONDUIT	L.F.							45					45
725-22.76	2IN CONDUIT STRUCTURE W/BANK	L.F.								865	1350	785		3000
725-22.78	3IN CONDUIT	L.F.	880	1145		450	950		990	160		150		4725
725-22.79	3IN CONDUIT BORED	L.F.		285	1110	150			305					1850
725-22.80	3IN CONDUIT W/BANK	L.F.										420	960	1380
725-23.01	ITS CABLE MARKER	EACH												30
725-23.16	FIBER OPTIC CABLE (144 F)	L.F.										620	1210	1830
725-23.21	FIBER OPTIC DROP CABLE (12F)	L.F.												150
725-23.26	FIBER OPTIC CLOSURE (12F)	EACH										1	1	2
725-23.31	FIBER OPTIC DROP PANEL (12F)	EACH	1		1	1		1	1			1	1	7
725-24.02	CABINET (TYPE B)	EACH	1					1				1		3
725-24.03	CABINET (TYPE C)	EACH			1	1			1				1	4
725-24.21	PREVENTIVE MAINTENANCE FOR SYSTEM	LS												1
725-24.25	UNSCHEDULED MAINTENANCE LABOR	HR												25
725-24.31	SPARE PARTS	LS												1
725-24.41	BURN-IN PERIOD	LS												1
725-24.52	SOFTWARE INTEGRATION	LS												1
725-24.54	NETWORK INTEGRATION	LS												1
725-24.55	AS-BUILT PLANS	LS												1
725-24.61	TRAINING	HR												12
725-28.01	ROAD SIDE UNIT (RSU)	EACH			1	1			1				1	4
730-23.31	PEDESTAL POLE (TYPE B)	EACH			1	1			1					3
740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	30		60	60		30	60			30	30	300
801-01	SEEDING (WITH MULCH)	UNIT	2	1	2	2	1	2	2	1	1	2	2	18
801-01.02	CROWN VETCH MIXTURE (WITH MULCH)	UNIT	0.7	0.6	0.7	0.5	0.5	0.5	0.5	0	0	1	1	6
801-03	WATER (SEEDING & SODDING)	M.G.	0.4	0.3	0.3	0.3	0.1	0.3	0.3	0	0	0.5	0.5	3

*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 DEMARCATION POINT.

	Fiber Optic Drop Panel?	Yes Add in
	Wireless Connection?	Email greg Tuesday
725-20.46	Structure Mounted Pull Box	Note on Quantites Page

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2A
PS&E	2025	CRP-9900(174)	2AB

REV. 8/25/2025:
1.) DESCRIPTIONS FOR THE FOLLOWING ITEM NO. HAVE BEEN ALTERED TO MATCH TDOT STANDARDS:
ITEM NO. 725-20.02
ITEM NO. 725-22.73
ITEM NO. 740-11.02
2.) QUANTITES FOR THE FOLLOWING ITEM NO. HAS BEEN ALTERED TO MATCH TDOT SPECIFICTIONS:
ITEM NO. 725-24.62

SEALED BY

STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
NUMBER 109,189
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS QUANTITIES
(PER SHEET)

8/24/2025 3:23:53 PM
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GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(4) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(3) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.

MISCELLANEOUS

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

SIGNING

(12) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT’S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT’S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER’S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT’S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT’S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT’S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT’S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER’S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2B
PS&E	2025	CRP-9900(174)	2B

SEALED BY

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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 DISCRECTION 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 PERFOMRED BY A QUALIFIED ITS CONTRACTOR. SEE SP725 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) 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.

(2) 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.

(3) 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.

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

UTILITY RELOCATION

(5) 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 IN FRONT OF CONCRETE BARRIERS, SOUND WALLS, OR RETAINING WALLS UNDER THE SHOULDER WHERE THE SHOULDER PAVEMENT IS AGAINST THE BARRIER WALLS.

(4) CONDUCTORS IN PULL BOXES AND EQUIPMENT ENCLOSURES SHALL BE NEATLY 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" WARNING 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 INSPECTOR 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 FIELD 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

(2) 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.

(3) 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.

(4) 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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2BA
PS&E	2025	CRP-9900(174)	2BA

SEALED BY

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

SPECIAL NOTES (CONTINUED)

ENVIRONMENTAL

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

ECOLOGY

(2) 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.

(3) 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.

(4) 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.

SCOPE OF WORK

(6) THIS PROJECT IS FOR THE CONSTRUCTION, INSTALLATION, TESTINGAND INTEGRATION OF TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STATEWIDE REGIONAL SMARTWAY INTELLIGENT TRANSPORTATION SYSTEM (ITS) INFRSTRUCTURE. THIS PROEJCT WILL LOOK TO INSTALL ITS DEVICES AT (3) RURAL LOCTIONS TO ASSIT THE ASSOCIATED REGIONAL TRAFFIC MANAGEMENT CENTER (TMC) WITH ROADWAY MONITORING AND INCIDENT MANAGEMENT. THE PROJECT WILL INCLUDE THE FOLLOWING: INSTALLATION OF SIX (6) CCTV CAMERAS, FOUR (4) RADAR DETECTION SYSTEMS (RDS), THREE (3) ENVIRONMENTAL SENSOR STATIONS (ESS), FOUR (4) 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. COMMUNCIATION TO/FROM ALL FIELD DEVICES WILL BE ACCOMPLISHED BY THE TDOT-WIRELESS COMMUNCIATION NETWORK TO THE DESIGNATED REGIONAL TMC. THE PROJECT WILL ALSO INCLUDE THE COMPLETE CONSTRUCTION AND TESTING OF THE ITS COMMUNCIATIONS 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 PROVICIONS (SP) 725.

TESTING WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. STAND-ALONG TESTING FOR ALL TDOT-MAINTAINED FIBER COMMUNCIATIONS, WIRELESS COMMUNICATION SERVICES, DMS, CCTV, ESS, AND RDS;

2. INITIAL APPLICATIONS SOFTWARE TESTING AND SYSTEM TESTING TO DEMOSTRATE ITS DEVICES CONTROL AND FUNCATIONALITY THROUGH FIELD COMMUNCATIONS CONCETRATION 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 DESIGANTED 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	CRP-9900(174)	2BB
PS&E	2025	CRP-9900(174)	2BB

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8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES AND ITS SCOPE OF WORK

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

(10) 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.

(11) 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).

(12) 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

(13) 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).

(14) 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.

(15) 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.

(16) 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.

(17) 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

(18) 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

(6) 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.

(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.

(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.

(10.1) 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.

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PIH	2025	CRP-9900(174)	2BC
PS&E	2025	CRP-9900(174)	2BC

SEALED BY

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8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

EROSION PREVENTIONS AND SEDIMENT CONTROL (CONTINUED)

INSPECTION, MAINTENANCE & REPAIR

(12) 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.

(13) 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.

(14) 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.

(15) 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.

(16) 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.

176) 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.

(18) 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.

(19) 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

(20) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(21) 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.

(22) 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.

(23) 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.

(24) 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.

(25) 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.

(26) 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.

(27) DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED.

PERMITS, PLANS & RECORDS

(28) 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

(29) 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.

(30) 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.

(31) 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.

(32) 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.

(33) 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.

(34) 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.

(35) 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.

(36) 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.

(37) 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.

(38) 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.

(39) 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.

(40) 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.

SUPPORT ACTIVITIES

(41) 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.

(42) MATERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN.

(43) 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	CRP-9900(174)	2BD
PS&E	2025	CRP-9900(174)	2BD

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

EROSION PREVENTIONS AND SEDIMENT CONTROL (CONTINUED)

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2BE
PS&E	2025	CRP-9900(174)	2BE

SPILL PREVENTION, MANAGEMENT & NOTIFICATION

(44) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE AND SPILLS.

(45) 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.

(46) 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.

(47) 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.

(48) 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.

(49) 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.

(50) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.

(51) 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.

(52) 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.

(53) 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.

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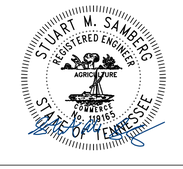

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

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	CRP-9900(174)	2BF
PS&E	2025	CRP-9900(174)	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	Roane	I-40	1	City of Rockwood	(865)-354-0514	Kendall Bear	(865)-717-5422	341 W. Rockwood St. P.O. Box 108	Rockwood	TN	37854
2	Giles/Marshall	I-65	3	Duck River Electric Member Corp	(931)-684-4621	Chad Gilliam	(931)-607-9641	991 South Ellington Pky. P.O. Box 1099	Lewisburg	TN	37091
3	Dyer	I-155	4	Forked Deer Electric Cooperative Inc.	(731)-836-7508	Jay Burress	(731)-676-5413	1135 North Church Street	Halls	TN	38040

Rural Deployments Demarcation Points

Site	Demarcation Point	Utility Owner	Station	Offset	Proposed Voltage	Notes
1	R1J-00I40-340.4W	City of Rockwood	770+97	255.51' LT	120/240	Proposed
2	R3J-00I65-021.2S	Duck River Electric Member Corp	458+00	80.26' LT	120/240	Proposed
2	R3J-00I65-022.4S	Duck River Electric Member Corp	518+82	199.70' LT	120/240	Proposed
2	R3J-00I65-023.7N	Duck River Electric Member Corp	587+07	200.62' RT	120/240	Proposed
3	R4J-0I155-000.2W	Forked Deer Electric Cooperative Inc.	238+37	121.07' LT	120/240	Proposed

SEALED BY

STUART M. SAMBERG REGISTERED ENGINEER AGRICULTURE COMMISSION No. 118165 STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY NOTES AND UTILITY OWNERS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2C
PS&E	2025	CRP-9900(174)	2C

INTELLIGENT TRANSPORTATION SYSTEM (I.T.S.) LEGEND

SYMBOL	ITEM
A	PROPOSED CABINET, TYPE A
B	PROPOSED CABINET, TYPE B
C	PROPOSED CABINET, TYPE C
	EXISTING CABINET
	EXISTING FIELD JUNCTION CABINET
	PROPOSED FIELD JUNCTION CABINET
CCTV	EXISTING CLOSED-CIRCUIT TELEVISION (C.C.T.V.) CAMERA (ARROW DENOTES ORIENTATION OF PIPE ARM)
CCTV	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 DEMARCATION POINT
	PROPOSED ELECTRICAL DEMARCATION POINT
DMS	EXISTING DYNAMIC MESSAGE SIGN (D.M.S.)
DMS	PROPOSED DYNAMIC MESSAGE SIGN (D.M.S.)
HAR	EXISTING HIGHWAY ADVISORY RADIO (H.A.R.)
HAR	PROPOSED HIGHWAY ADVISORY RADIO (H.A.R.)
HAR	EXISTING HIGHWAY ADVISORY RADIO (H.A.R.) SIGN
	EXISTING PULL BOX
PB	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))
RDS	EXISTING RADAR DETECTION SYSTEM (R.D.S.)
RDS	PROPOSED RADAR DETECTION SYSTEM (R.D.S.)
	EXISTING UTILITY POLE
ESS	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

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.

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
E	DMS
G	RDS
J	DEM 1
**K	DEM 2
Y	ESS
X	RSU

* (B) SHALL BE USED IF THERE IS MORE THAN ONE CCTV CAMERA AT THE SAME MILE.

** (K) SHALL BE USED IF THERE IS MORE THAN ONE DEMARCATION POINT AT THE SAME MILE.

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8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LEGEND AND ABBREVIATIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2D
PS&E	2025	CRP-9900(174)	2D

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.)	Work Pad Type	Notes
CCTV Camera R1A-00I40-340.4W	5	I-40	773+02	LT.	35'	80'	80'	1	Concrete	Site 1; With ESS R1Y-00I40-340.4W
CCTV Camera R1A-00I40-341.0E	7	I-40	801+83	RT.	25'	20'	20'	1	N/A	Site 1; With DMS R1E-00I40-341.0E; Static CCTV, Item 725-20.92
CCTV Camera R3A-00I65-021.0N	8	I-65	444+11	RT.	25'	20'	20'	1	N/A	Site 2; With DMS R3E-00I65-021.0N, Static CCTV, Item 725-20.92
CCTV Camera R3A-00I65-022.4S	10	I-65	518+34	LT.	30'	80'	80'	1	Concrete	Site 2; With ESS R3Y-00I65-022.4S
CCTV Camera R3A-00I65-023.9S	11	I-65	597+19	LT.	25'	20'	20'	1	N/A	Site 2; With DMS R3E-00I65-023.9S, Static CCTV, Item 725-20.92
CCTV Camera R4A-0I155-000.8E	14	I-155	269+00	RT.	35'	80'	80'	1	Concrete	Site 3; With 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 R1G-00I40-340.4W	5	I-40	773+02	LT.	35'	WB	2	20'	Site 1; With CCTV R1A-00I40-340.4W
RDS R3G-00I65-022.4S	10	I-65	518+34	LT.	30'	SB	2	17'	Site 2; With CCTV R3A-00I65-022.4S
RDS R4G-0I155-000.8E	14	I-155	269+00	RT.	35'	EB	2	20'	Site 3; With CCTV R4A-0I155-000.8E

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.

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 R1Y-00I40-340.4W	5	I-40	773+02	LT.	35'	23'	30˚	1	Site 1; With CCTV R1A-00I40-340.4W
ESS R3Y-00I65-022.4S	10	I-65	518+34	LT.	30'	23'	30˚	1	Site 2; With CCTV R3A-00I65-022.4S
ESS R4Y-0I155-000.8E	14	I-155	269+00	RT.	35'	23'	30˚	1	Site 3; With CCTV R4A-0I155-000.8E

NOTES:

1. 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.

NETWORK SWITCH LOCATIONS W/ SUPPORTED EQUIPMENT

SHEET NUMBER	SWITCH LOCATION	CHANNEL	SWITCH TYPE	ROADWAY	STATION	DMS	CCTV	ESS	RDS	RSU
5	SITE 1 CCTV CAMERA R1A-00I40-340.4W	X	CISCO IR1101	I-40	773+02		R1A-00I40-340.4W	R1Y-00I40-340.4W	R1G-00I40-340.4W	
7	SITE 1 DMS R1E-00I40-341.0E	X	CISCO IR1101	I-40	801+83	R1E-00I40-341.0E	R1A-00I40-341.0E			R1X-00I40-341.0E
8	SITE 2 DMS R3E-00I65-021.0N	X	CISCO IR1101	I-65	444+11	R3E-00I65-021.0N	R3A-00I65-021.0N			R3X-00I65-021.0N
10	SITE 2 CCTV CAMERA R3A-00I24-022.4S	X	CISCO IR1101	I-65	518+34		R3A-00I24-022.4S	R3Y-00I24-022.4S	R3G-00I24-022.4S	
11	SITE 2 DMS R3E-00I65-023.9S	X	CISCO IR1101	I-65	597+19	R3E-00I65-023.9S	R3A-00I65-023.9S			R3X-00I65-023.9S
14	SITE 3 CCTV CAMERA R4A-0I155-000.8E	X	CISCO IR1101	I-155	296+00		R4A-0I155-000.8E	R4Y-0I155-000.8E	R4G-0I155-000.8E	
15	SITE 3 DMS R4E-0I155-001.1E	X	CISCO IR1101	I-155	282+55	R4E-0I155-001.1E				R4X-0I155-001.1E

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8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DEVICE MOUNTING AND NETWORK SWITCH TABLES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2D1
PS&E	2025	CPR-9900(174)	2D1

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) 705-06.10	Thrie Beam (EA) 705-06.25	Remarks
					EB	WB	NB	SB	LT	RT	From	To							
1	1	341.0	7	Site 1 DMS	X				X		799+66.98	802+79.48	1	1	312.5	25	1		
2	1	341.0	7	Site 1 DMS	X					X	799+64.85	802+77.35	1	1	312.5	25	1		
3	2	021.0	8	Site 2 DMS S			X		X		441+91.93	445+04.43	1	1	312.5	25	1		
4	2	021.0	8	Site 2 DMS S			X			X	442+67.67	445+05.17			237.5	19	1		Tie into existing guardrail run
5	2	022.4	10	Site 2 CCTV				X		X	518+16.46	518+53.96			37.5	3	1	1	
6	2	023.9	11	Site 2 DMS N				X		X	596+14.66	599+27.16	1	1	312.5	25	1		
7	2	023.9	11	Site 2 DMS N				X	X		596+14.66	599+27.16	1	1	312.5	25	1		
8	3	000.8	14	Site 3 CCTV W	X					X	267+45.64	269+20.64			175	14	1	1	
9	3	001.1	15	Site 3 DMS	X					X	280+39.11	283+51.61	1	1	312.5	25	1		
											Totals		6	6	2325	186	9	2	

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ITS GUARDRAIL QUANTITIES

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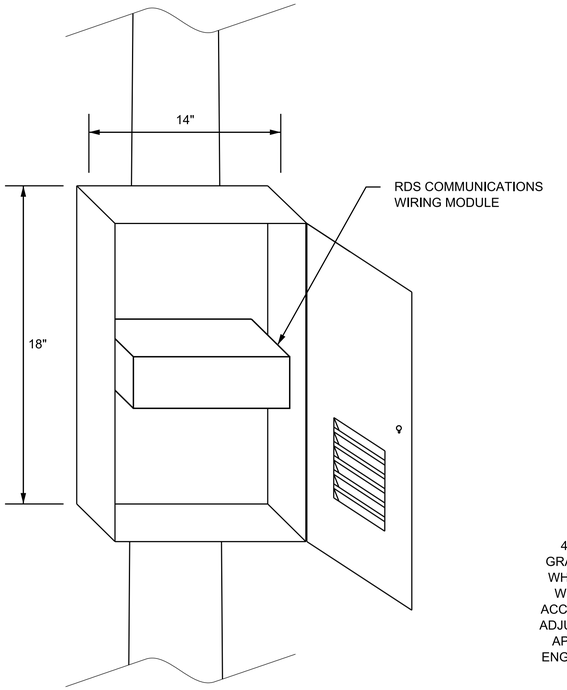
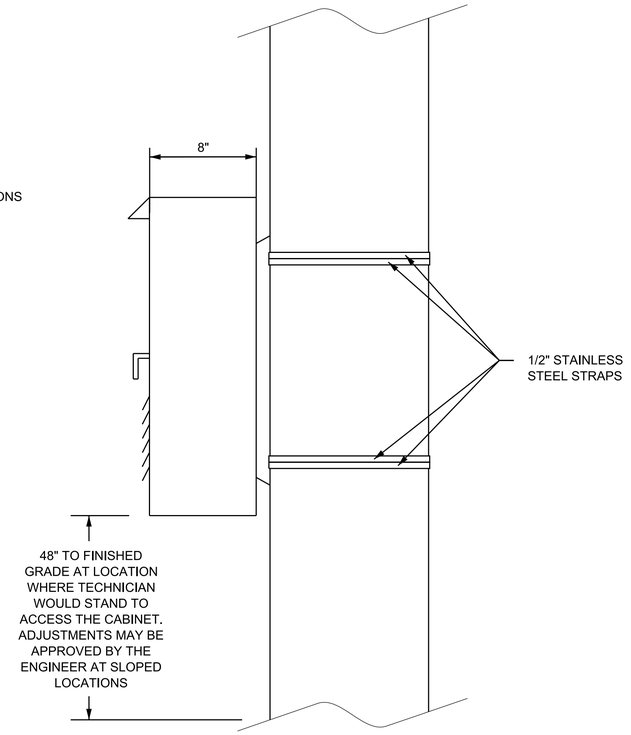
\\ad.rkk.com\fs\Cloud\Projects\2020\20102_itsTDOT\TO_008_Rural Deployments\Cadd\131998_02-Roane, Mars, Dyer\Sheets\ITS_2D1_Guardrail_Quantities.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F
PS&E	2025	CRP-9900(174)	2F

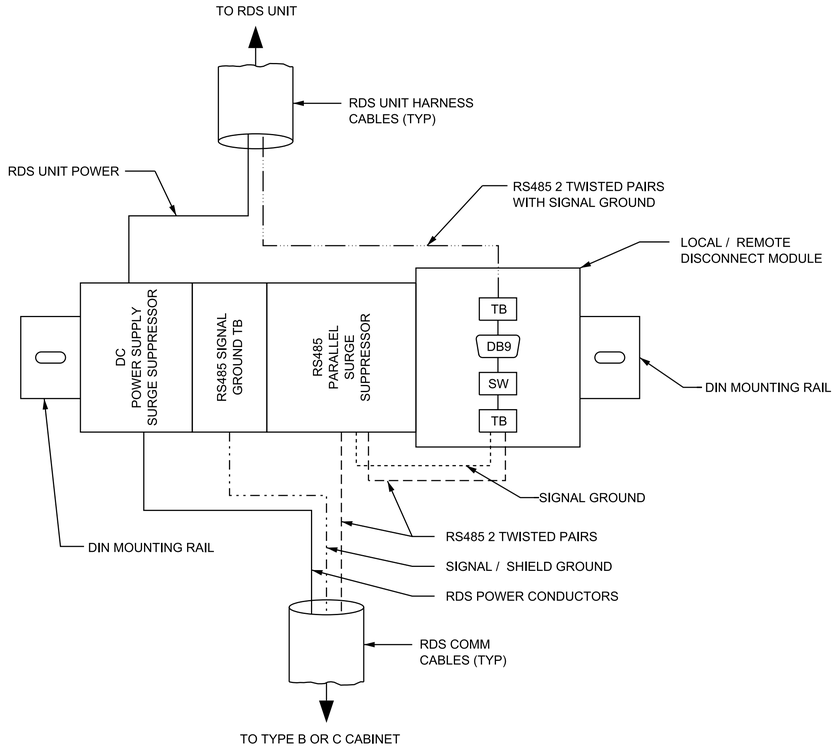


FRONT VIEW



SIDE VIEW ATTACHED TO POLE

TYPE "A" FIELD CABINET

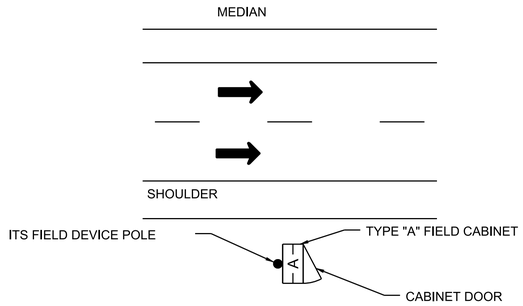


RDS COMM WIRING MODULE
N.T.S.

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 FOR INDIVIDUAL SITE REQUIREMENTS.
2. ATTACHMENTS TO BREAKAWAY POLES SHALL PREVENT CABINET SEPARATION IN THE EVENT OF VEHICLE IMPACT.
3. CABINETS SHALL BE LABELED WITH "TDOT ITS" AND DEVICE TYPE AND NUMBER. CABINET DIMENSIONS ARE NOMINAL MINIMUMS. SEE SPECIAL PROVISIONS FOR MORE CABINET DETAILS.
4. 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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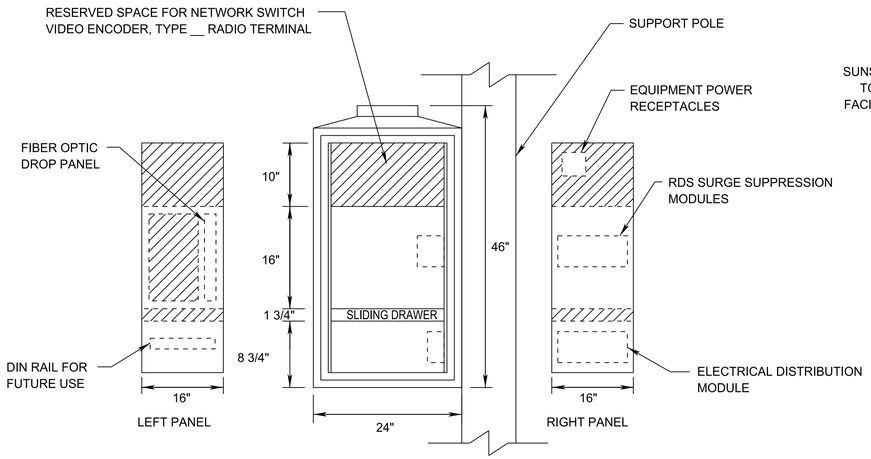
DEPARTMENT OF TRANSPORTATION

TYPE A FIELD CABINET DETAILS

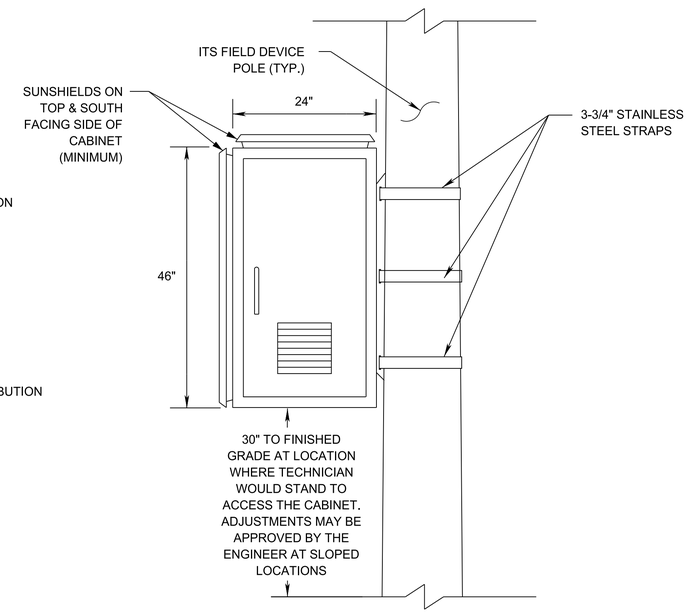
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F1
PS&E	2025	CRP-9900(174)	2F1



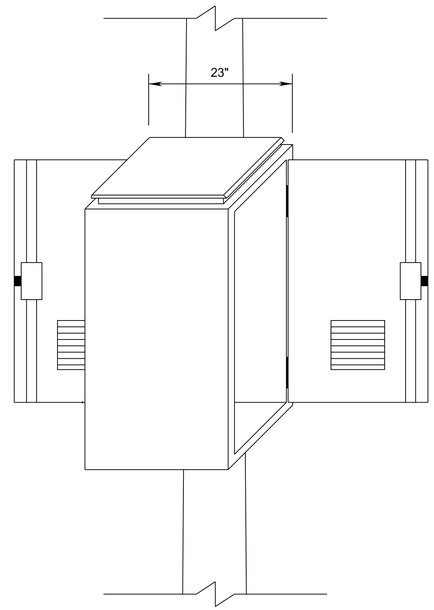
NOTES:

1. ALL DIMENSIONS AND SCALE ARE APPROXIMATE.

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

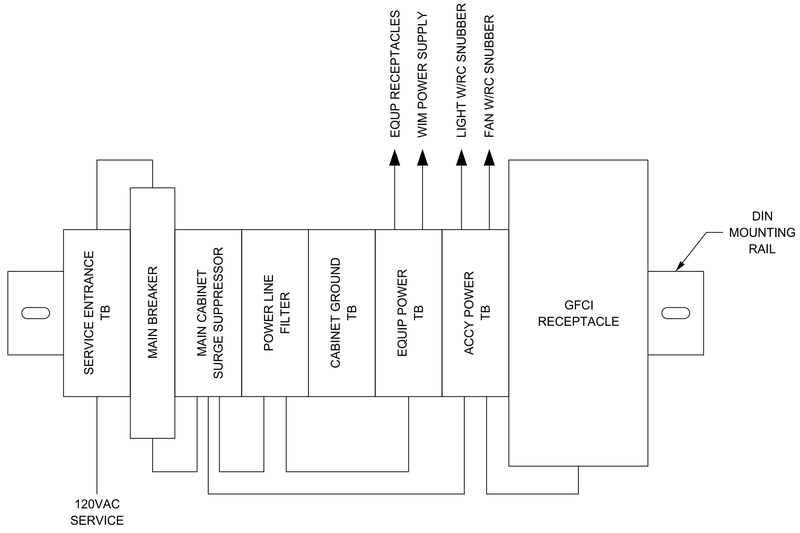


SIDE VIEW

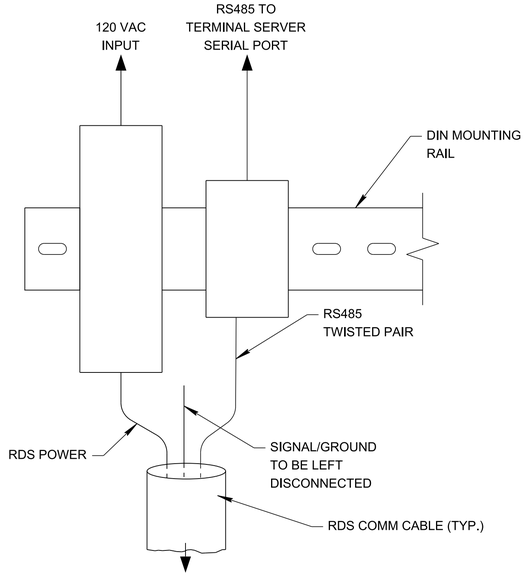


FRONT VIEW

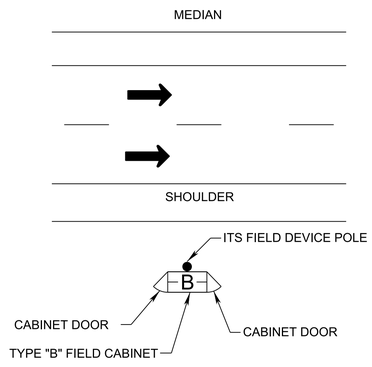
TYPE "B" FIELD CABINET (46" x 24" x 23")
N.T.S.



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.

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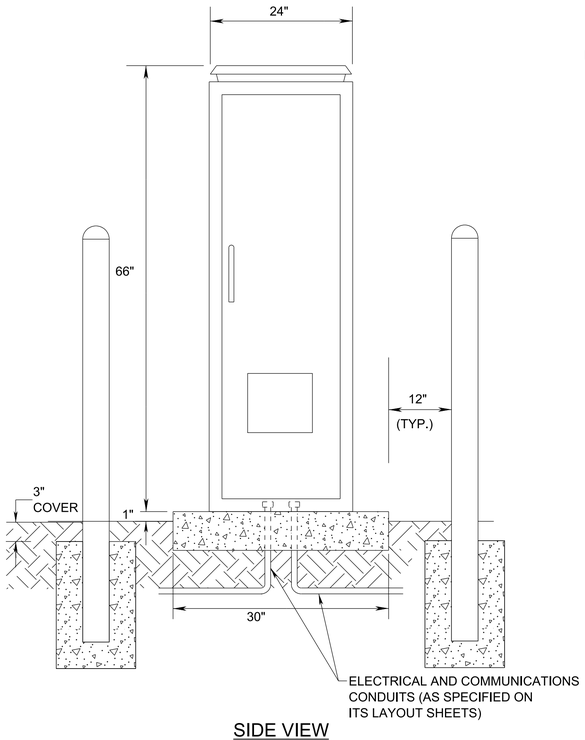
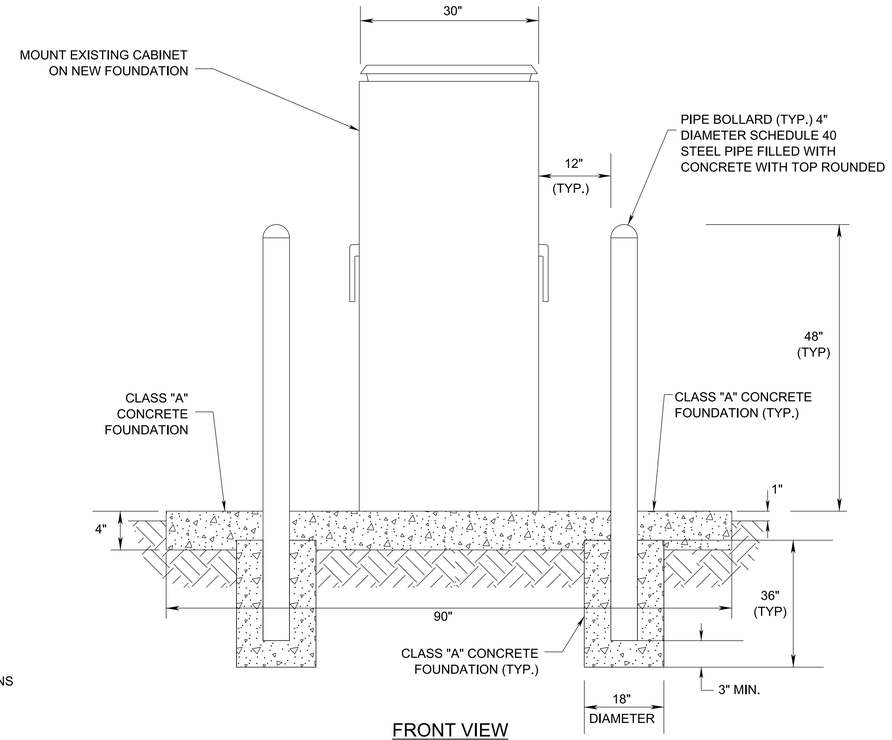
TYPE B FIELD CABINET DETAILS

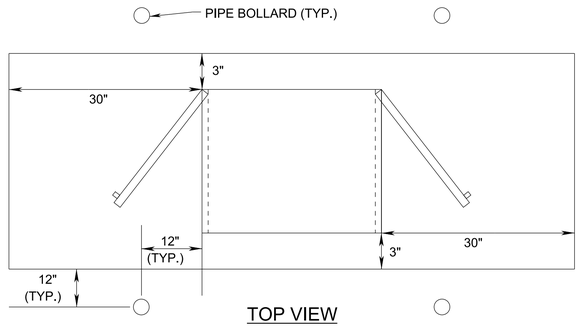
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F2
PS&E	2025	CRP-9900(174)	2F2



SIDE VIEW

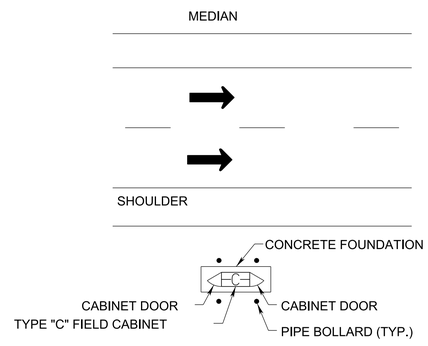


FRONT VIEW



TOP VIEW

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



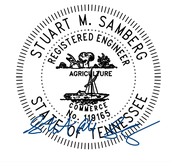
DETAIL: PLAN VIEW OF TYPE "C"
FIELD CABINET CONFIGURATION
N.T.S.

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

SEALED BY



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TYPE C FIELD CABINET DETAILS

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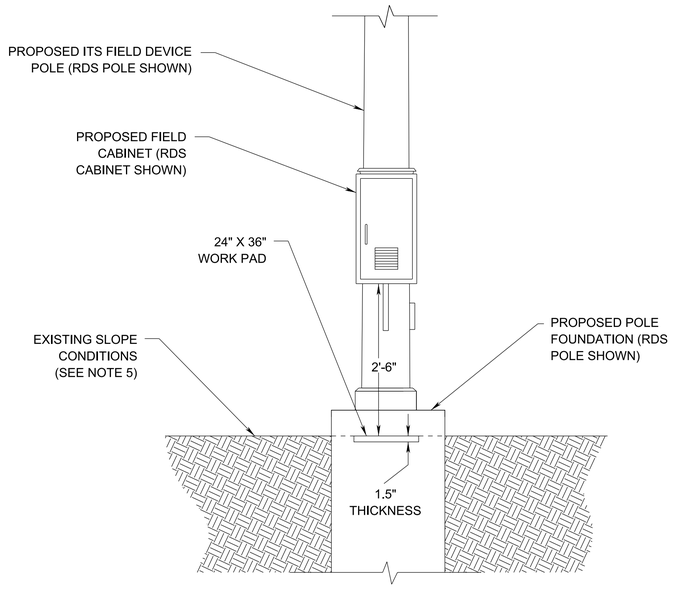
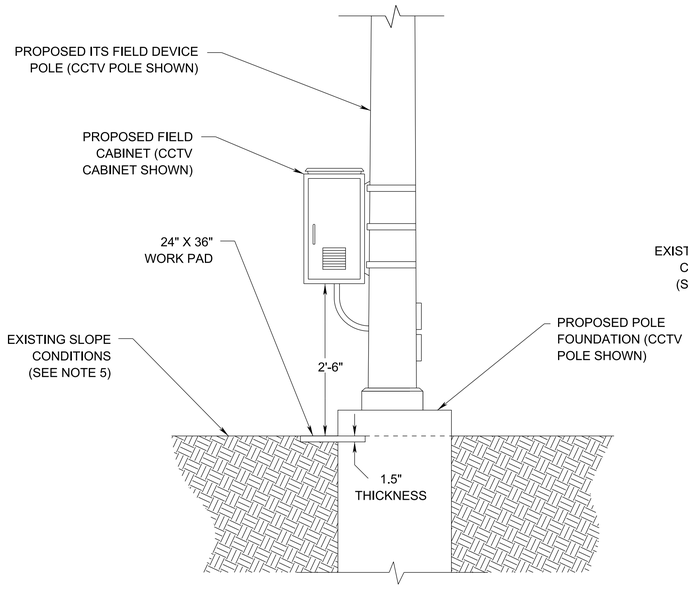
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F3
PS&E	2025	CRP-9900(174)	2F3



SECTION A-A
N.T.S.



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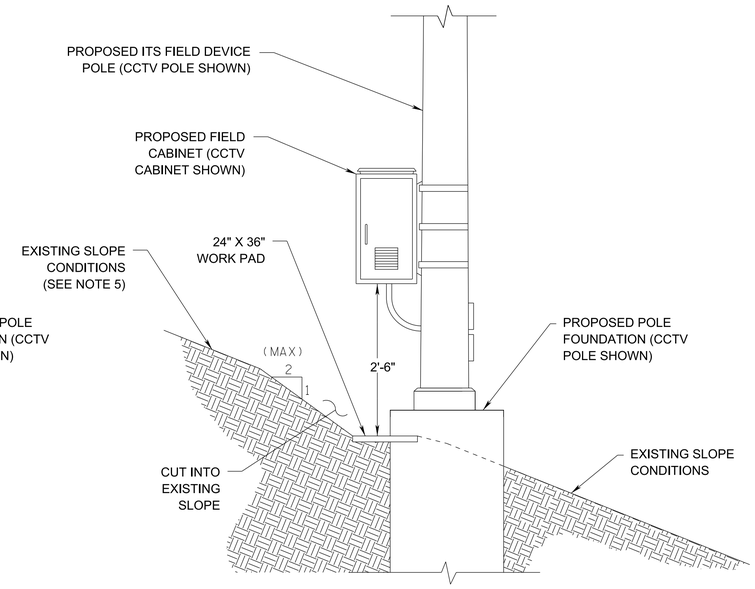

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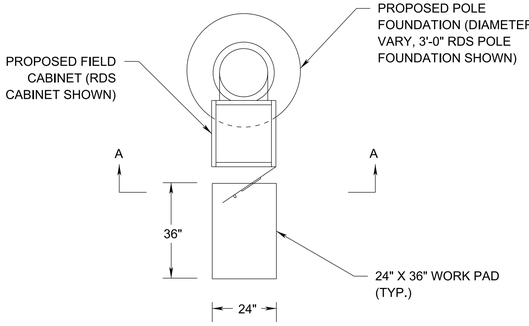
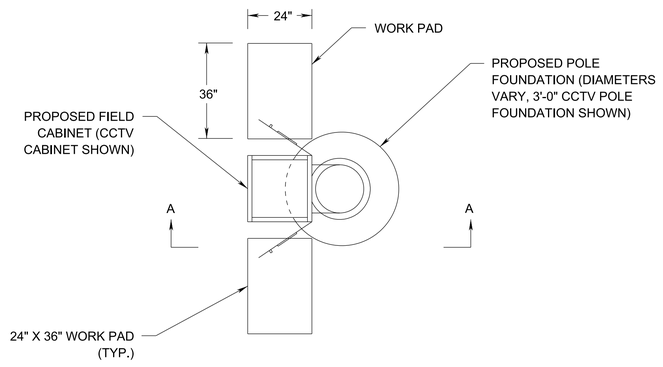
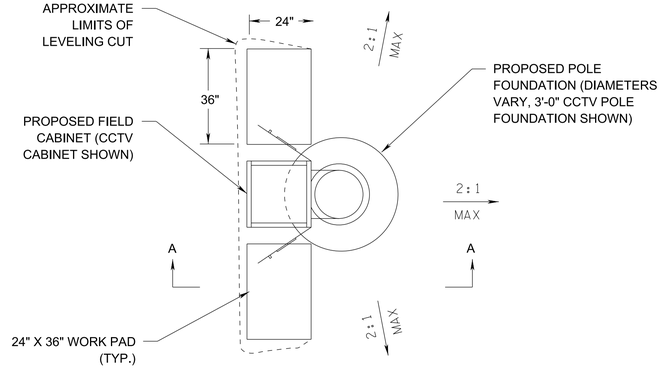
N.T.S.



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



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



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

NOTES:

1. WORK PAD DECKS SHALL BE PRECAST POLYMER CONCRETE REINFORCED WITH WOVEN FIBERGLASS. TOP SURFACE SHALL HAVE A 0.5 COEFFICIENT OF FRICTION SKID RESISTANT SURFACE. WORK PAD SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. WORK PAD SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.
2. WORK PADS WILL BE REQUIRED AT EACH POLE-MOUNTED CABINET.
3. COMPACTED BACKFILL WILL BE CONSIDERED AT THE DISCRETION OF THE ENGINEER FOR SLOPE CONDITIONS OF 3:1 (H:V) OR STEEPER.
4. SLOPE CONDITIONS CONSTRUCTED FOR EITHER THE LEVELING CUT OR THE COMPACTED BACKFILL SHALL NOT EXCEED A 2:1 (H:V) SLOPE.
5. 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.
6. ALL DISTURBED AREAS ADJACENT TO THE WORK PAD SHALL HAVE SEED APPLIED AND EROSION CONTROL BLANKET (TYPE II) INSTALLED.

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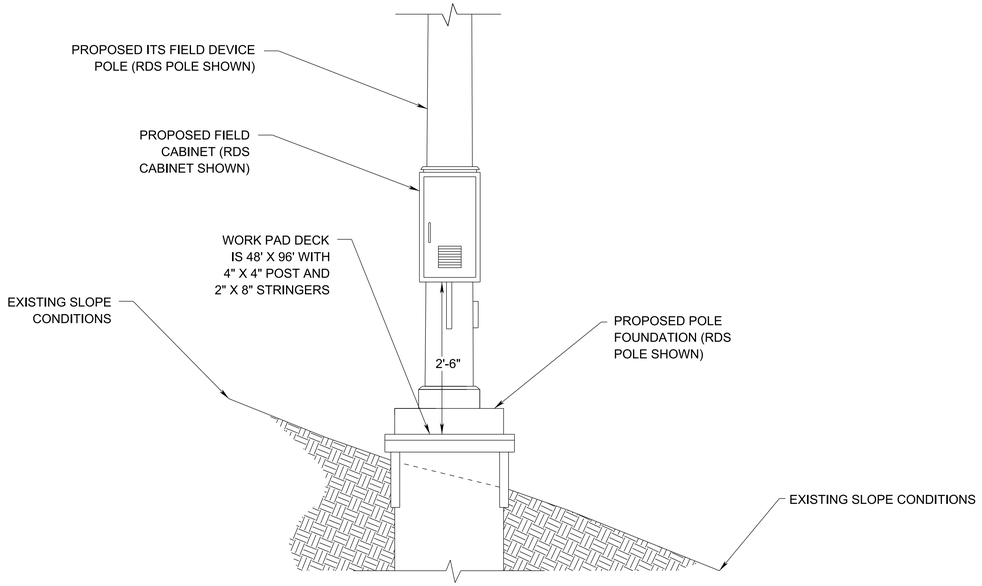
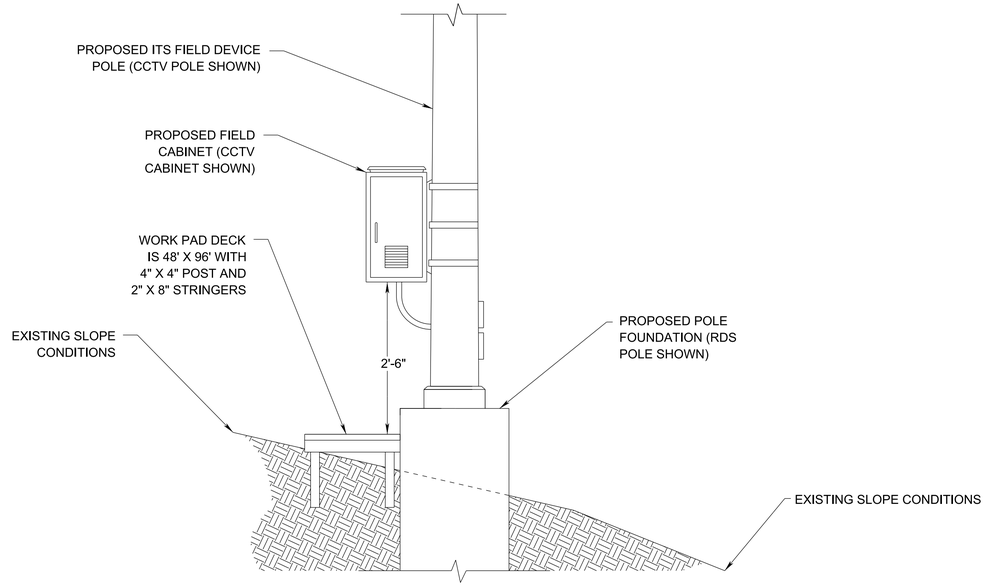
TYPICAL MAINTENANCE WORK PAD DETAILS

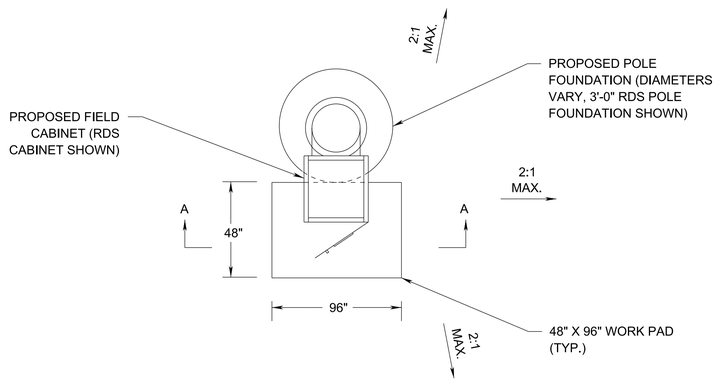
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F4
PS&E	2025	CRP-9900(174)	2F4



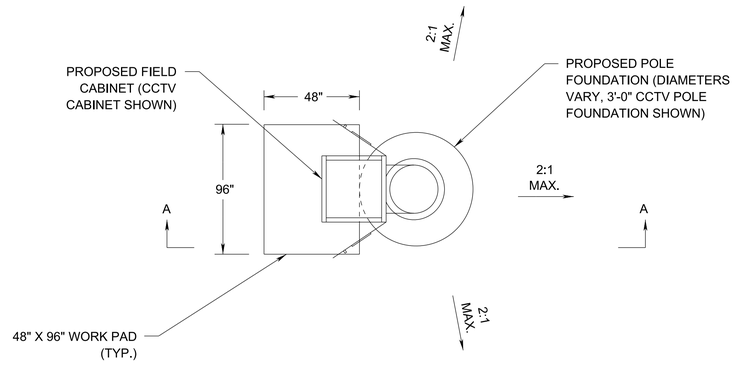
SECTION A-A
N.T.S.



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:

1. 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.
2. WORK PADS WILL BE REQUIRED AT EACH POLE-MOUNTED CABINET.
3. COMPACTED BACKFILL WILL BE CONSIDERED AT THE DISCRETION OF THE ENGINEER FOR SLOPE CONDITIONS OF 3:1 (H:V) OR STEEPER.
4. SLOPE CONDITIONS CONSTRUCTED FOR EITHER THE LEVELING CUT OR THE COMPACTED BACKFILL SHALL NOT EXCEED A 2:1 (H:V) SLOPE.
5. 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.
6. ALL DISTURBED AREAS ADJACENT TO THE WORK PAD SHALL HAVE SEED APPLIED AND EROSION CONTROL BLANKET (TYPE II) INSTALLED.

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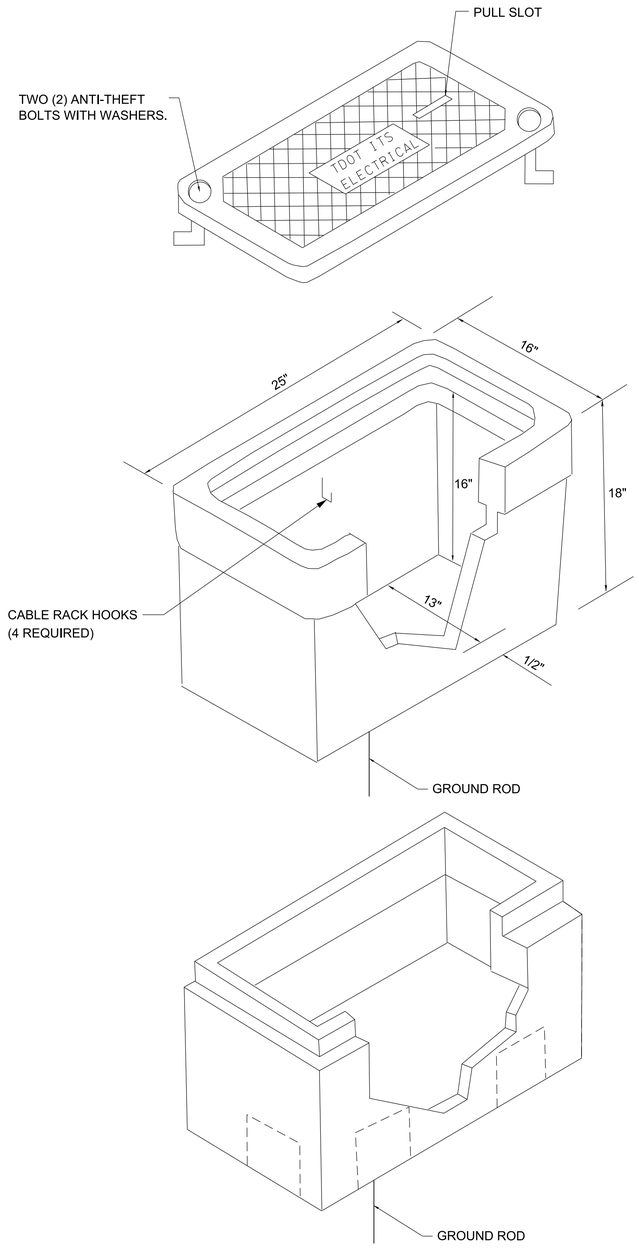
DEPARTMENT OF TRANSPORTATION

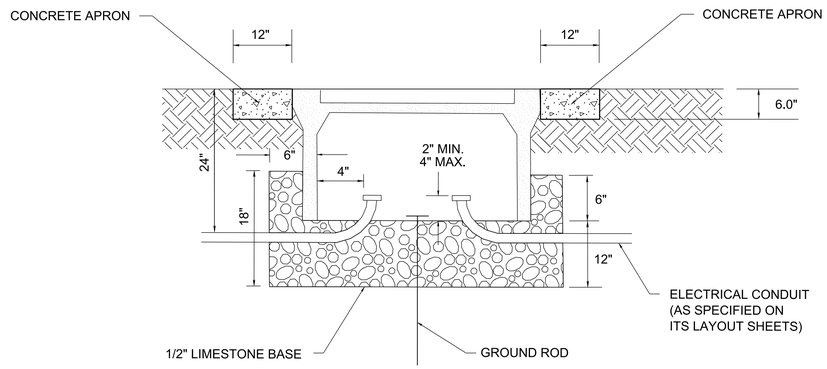
TYPICAL MAINTENANCE WORK PAD DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F5
PS&E	2025	CRP-9900(174)	2F5



TYPICAL TYPE "C" PULL BOX ASSEMBLY

N.T.S.



TYPICAL TYPE "C" PULL BOX INSTALLATION

N.T.S.

SHOWN AS

PB

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.

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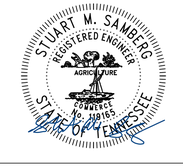

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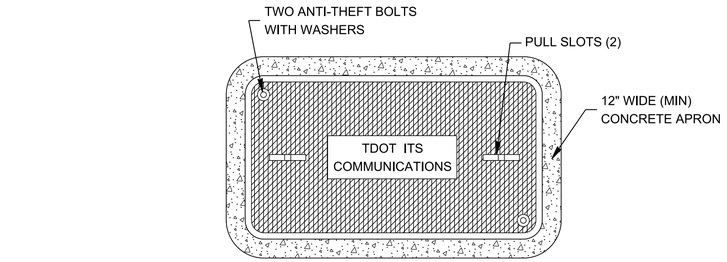
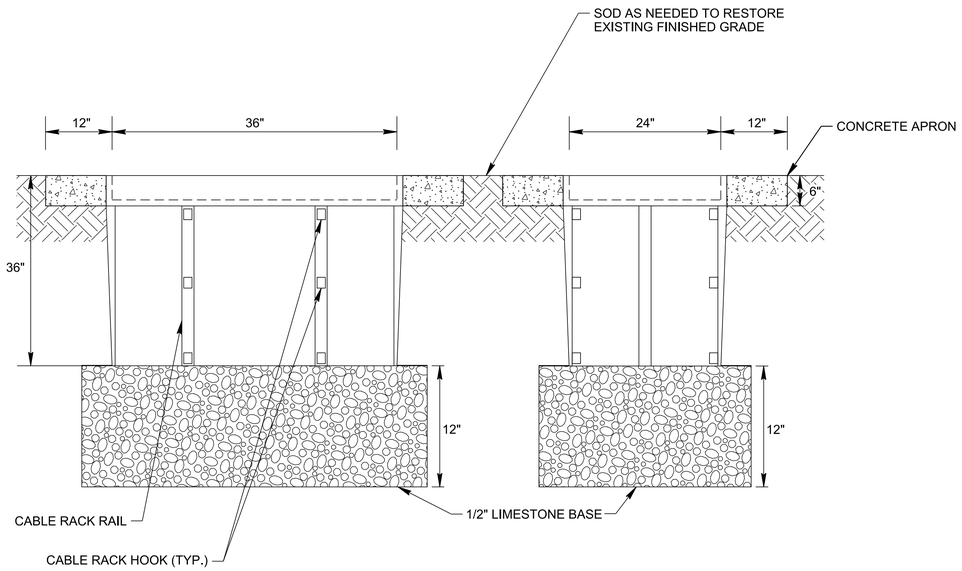
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPE C PULL BOX DETAILS

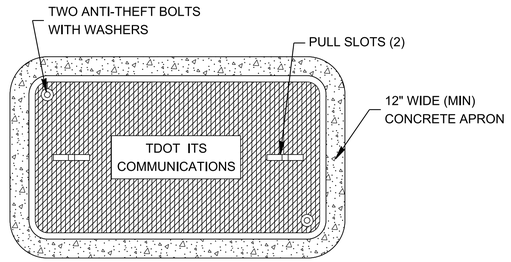
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F6
PS&E	2025	CRP-9900(174)	2F6

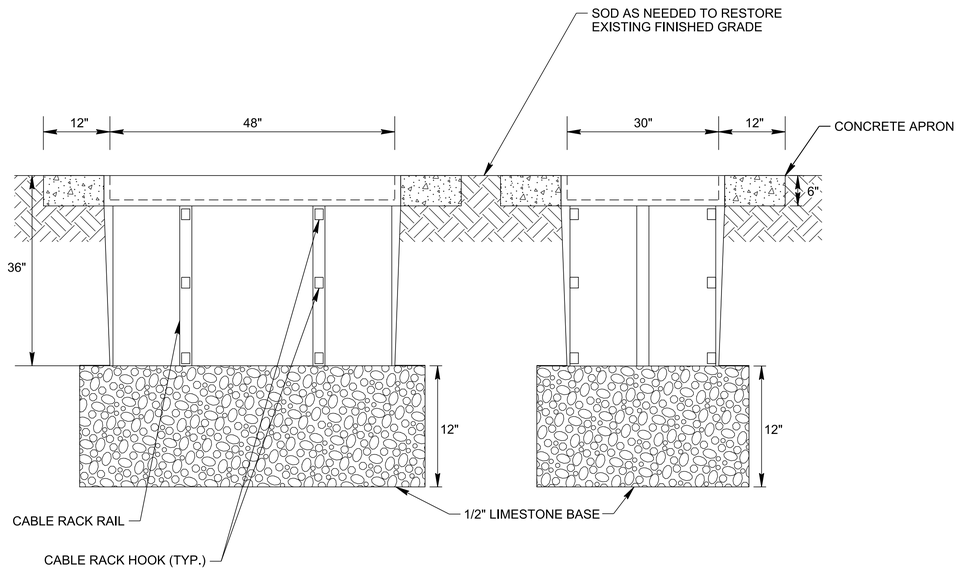




TYPE "D" PULL BOX ASSEMBLY
N.T.S.

SHOWN AS





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

SHOWN AS

NOTES:

TYPE D AND E PULL BOX WITH COVER

1. PULL BOX COVER SHALL BE PRECAST COMPOSITE POLYMER CONCRETE PRODUCT.
2. PULL BOXES & COVERS SHALL BE SINGLE-STACK OPEN-BOTTOM ASSEMBLIES CONFIGURED AS SHOWN IN PLANS.
3. SHALL MEET OR EXCEED CURRENT ANSI/SCTE 77 TIER 22 LOADING REQUIREMENTS.
4. PULL BOX SHALL MEET CURRENT NEC STANDARDS FOR HANDHOLE ENCLOSURES.
5. PULL BOX COVER SHALL BE LABELED (TDOT ITS COMMUNICATIONS).
6. 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.
7. TYPE D AND E PULL BOXES SHALL ONLY BE USED FOR COMMUNICATIONS CONDUIT/CABLING.
8. GPS COORDINATES OF EACH PULL BOX WILL BE RECORDED IN THE AS-BUIT PLANS TO BE TURNED IN WITH THIS PROJECT.
9. UNUSED CONDUIT SHALL BE STUBBED OUT AND CAPPED TO PRESERVE FOR FUTURE USE.
10. CONDUIT SHALL ENTER TYPE "D" AND "E" PULL BOXES THROUGH THE SIDEWALL.
11. HOLES ALONG THE SIDEWALLS SHALL BE CUT BY THE CONTRACTOR.
12. 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.

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DEPARTMENT OF TRANSPORTATION

TYPE D & E PULL BOX DETAILS

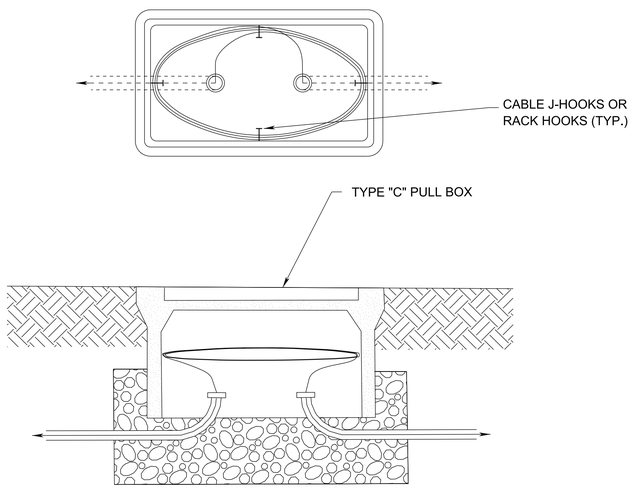
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F7
PS&E	2025	CRP-9900(174)	2F7

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

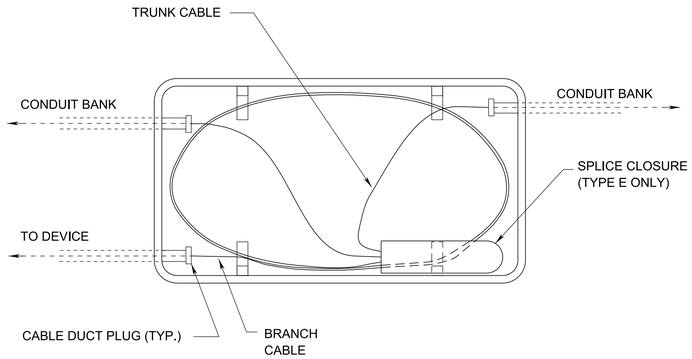
TYPICAL CABLE COIL INSTALLATION GUIDE

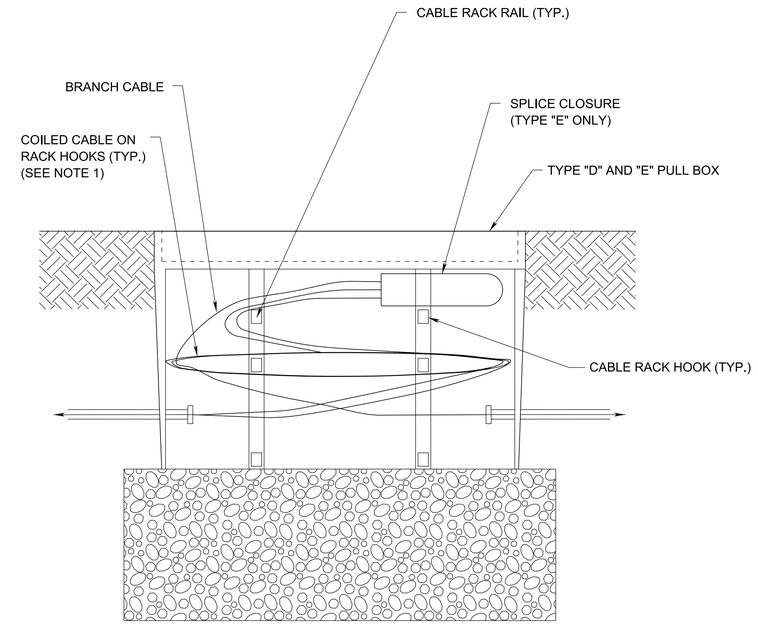
(FEET OF COIL LENGTH PER ENTERING CABLE)



CABLE MANAGEMENT IN TYPE "C" PULL BOX

N.T.S.





CABLE MANAGEMENT IN TYPE "D" AND "E" PULL BOX

N.T.S.

NOTES:

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

SEALED BY

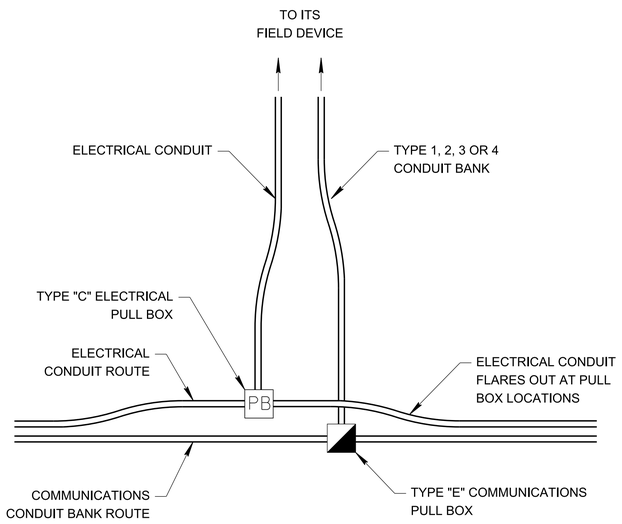
STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
COMMERCE & INDUSTRY
STATE OF TENNESSEE

8/25/2025

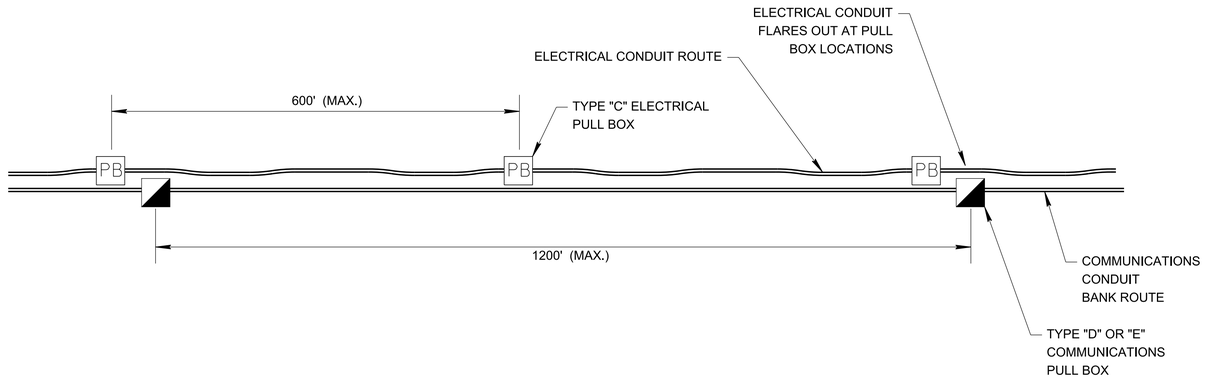
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CABLE MANAGEMENT DETAILS

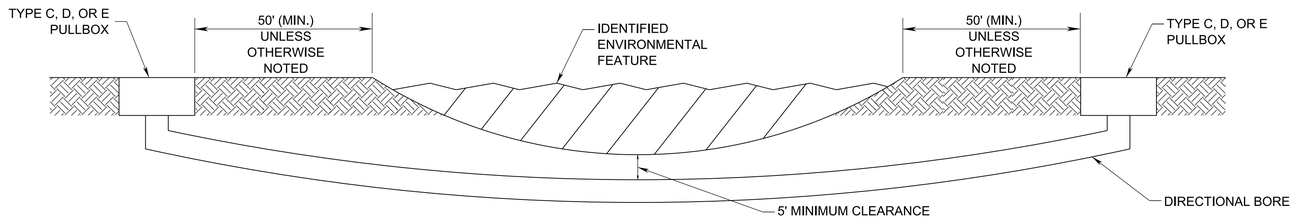
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F8
PS&E	2025	CRP-9900(174)	2F8



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).

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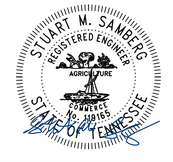

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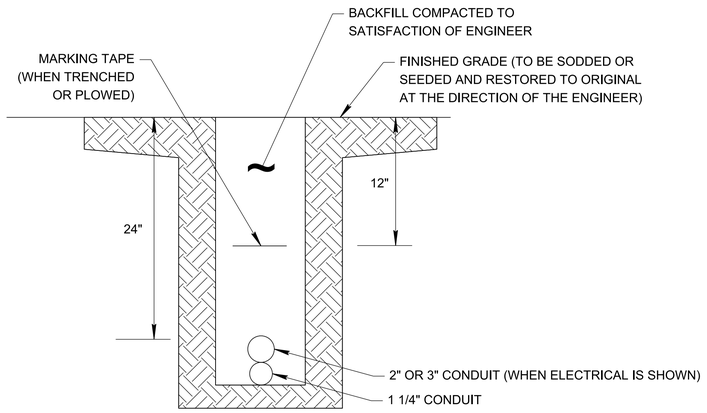
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL CONDUIT, TRENCHING, AND BORING DETAILS

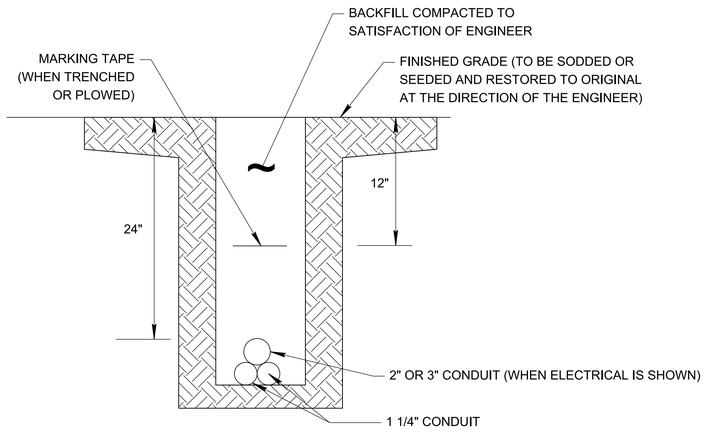
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F9
PS&E	2025	CRP-9900(174)	2F9



CONDUIT BANK TYPE 1

N.T.S.

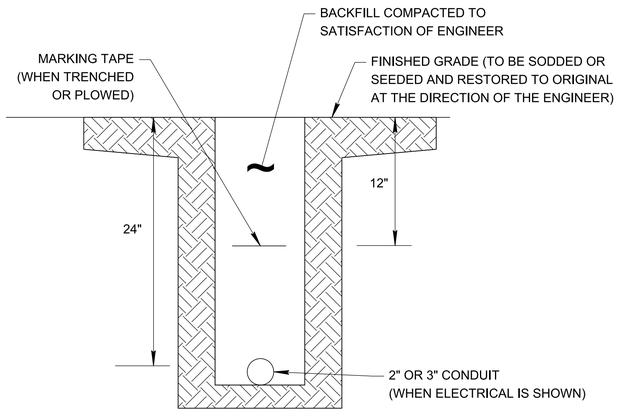
ONE 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 2

N.T.S.

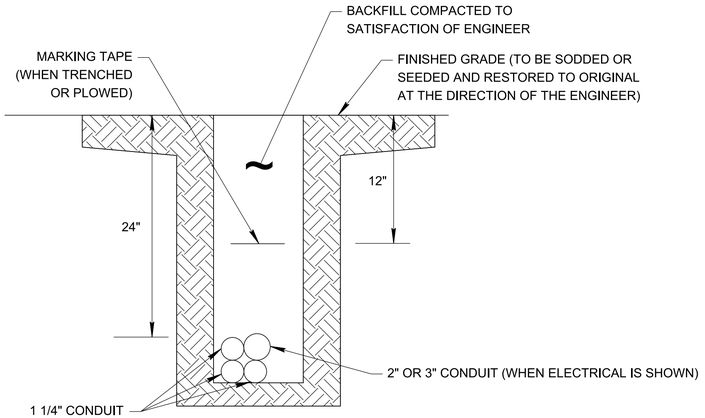
TWO 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



2" OR 3" CONDUIT

N.T.S.

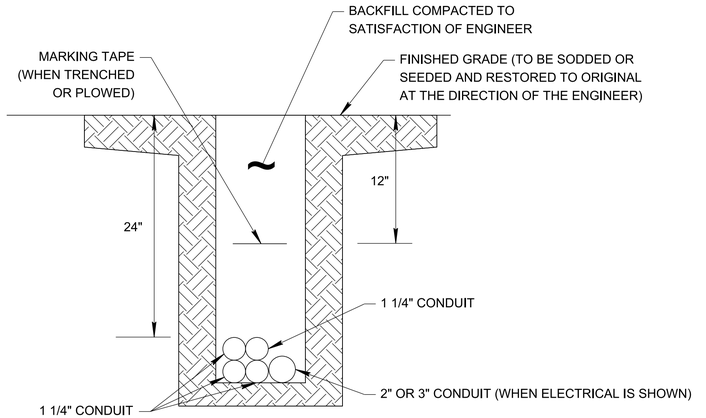
ONE 2" OR 3" CONDUIT



CONDUIT BANK TYPE 3

N.T.S.

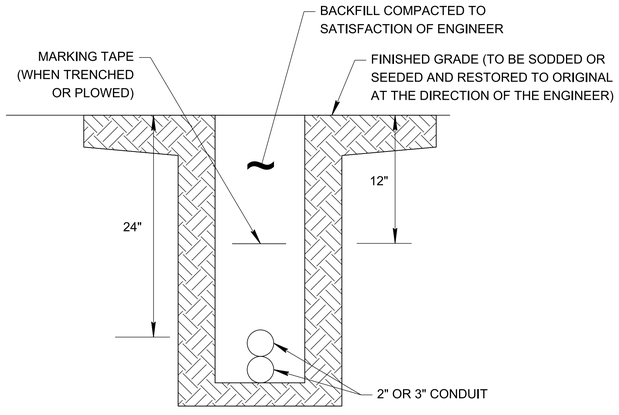
THREE 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 4

N.T.S.

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



MULTIPLE 2" OR 3" CONDUITS

N.T.S.

TWO 2" OR 3" CONDUITS

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.

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

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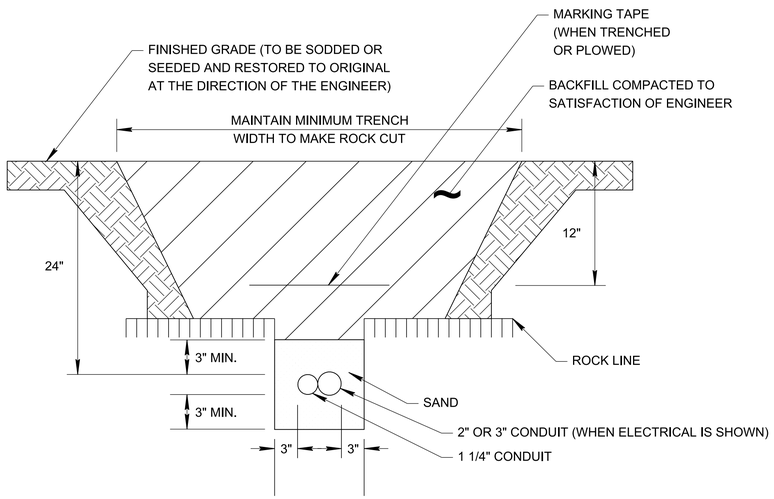
8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL CONDUIT, TRENCHING, AND BORING DETAILS

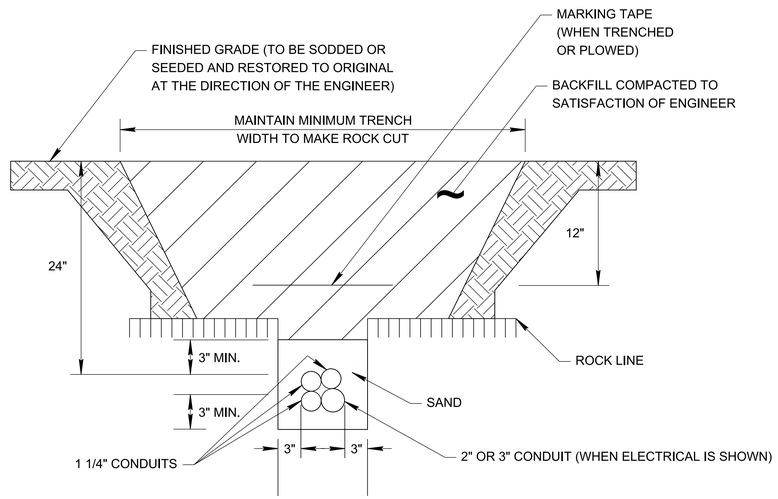
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F10
PS&E	2025	CRP-9900(174)	2F10



CONDUIT BANK TYPE 1 IN ROCK

N.T.S.

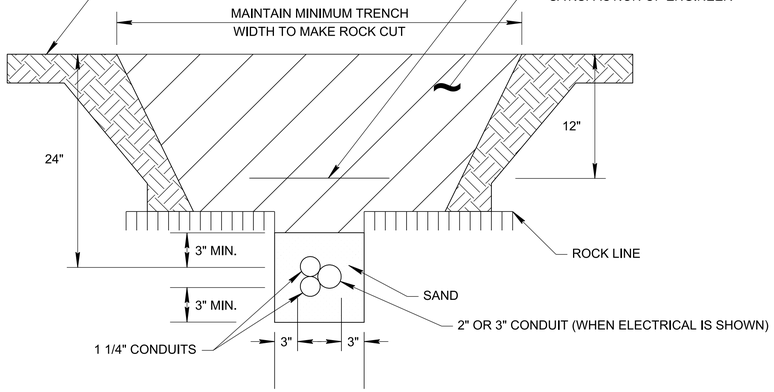
ONE 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 3 IN ROCK

N.T.S.

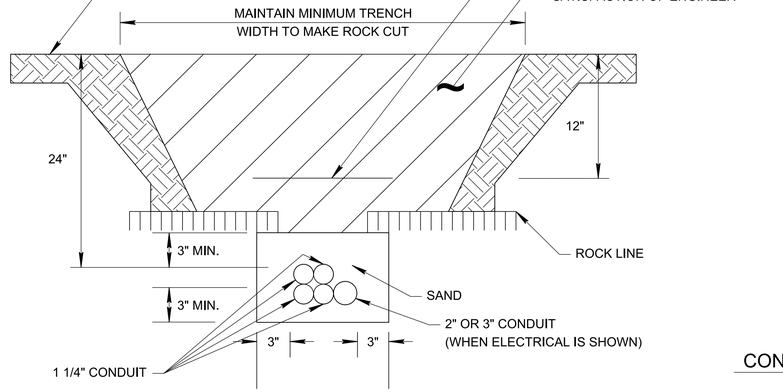
THREE 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 2 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

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.

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

SEALED BY

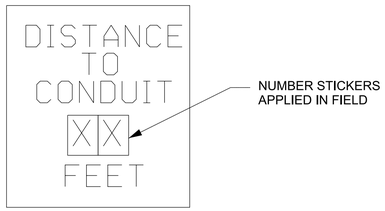
STUART M. SAMBERG REGISTERED ENGINEER AGRICULTURE CONVERSE TO SERVICE STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

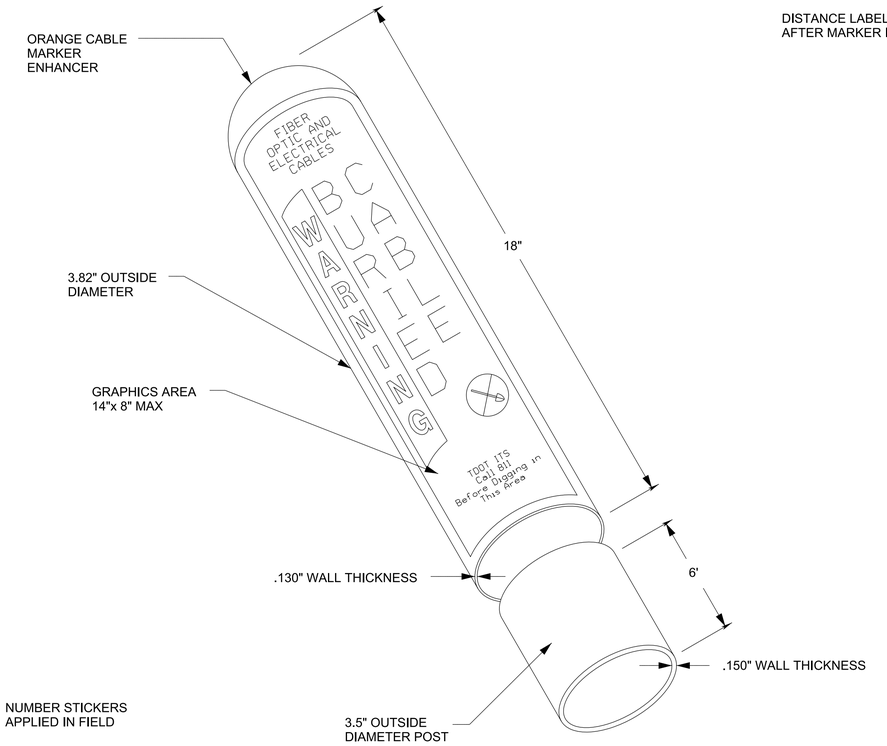
TYPICAL CONDUIT, TRENCHING, AND BORING DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F11
PS&E	2025	CRP-9900(174)	2F11



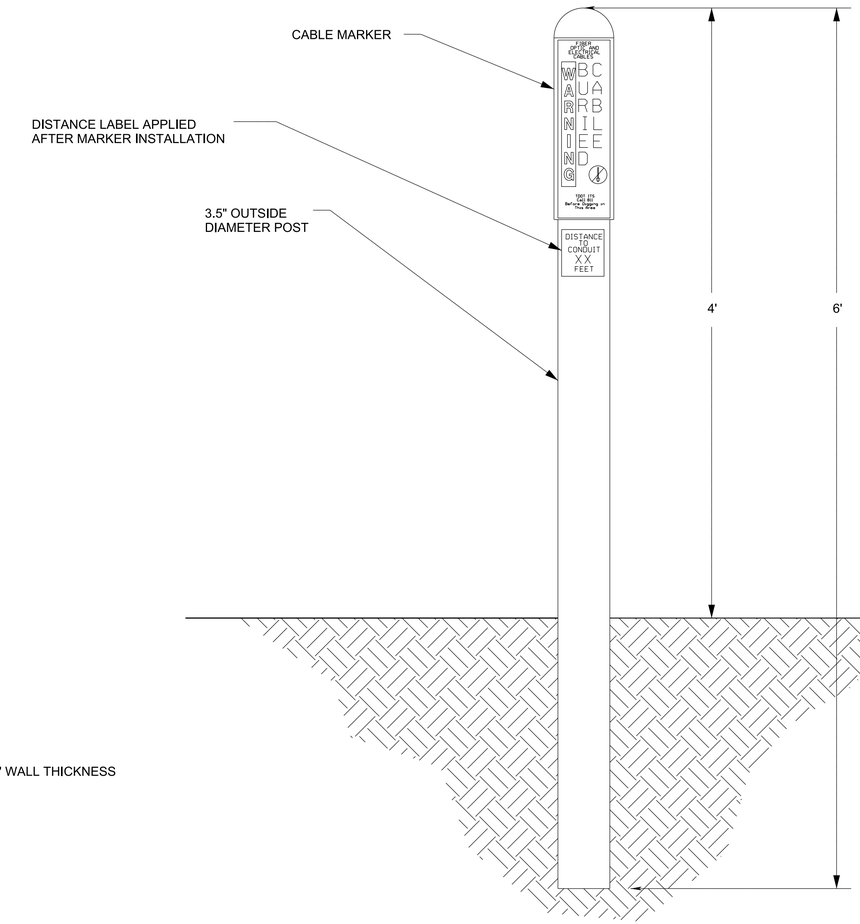
PRE PRINTED DISTANCE LABEL

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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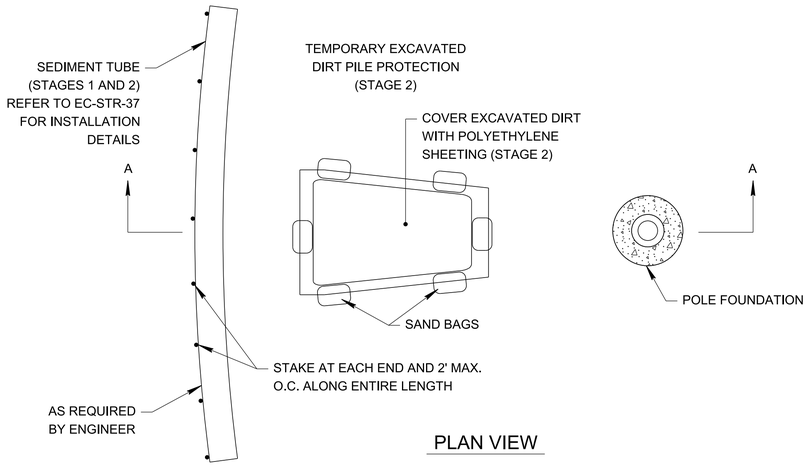
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

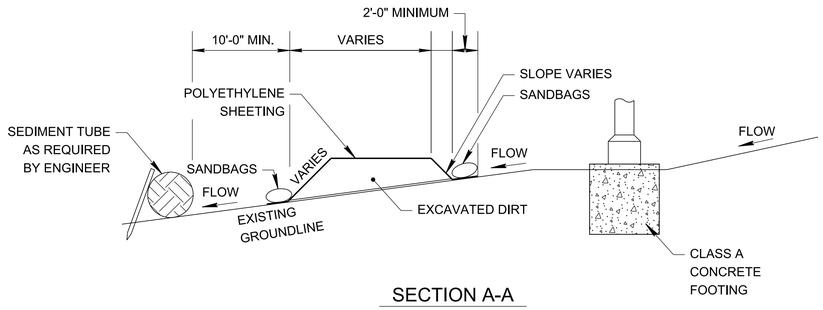
CABLE MARKER DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F12
PS&E	2025	CRP-9900(174)	2F12

POLE OR SIGN FOUNDATION EROSION CONTROL



PLAN VIEW



SECTION A-A

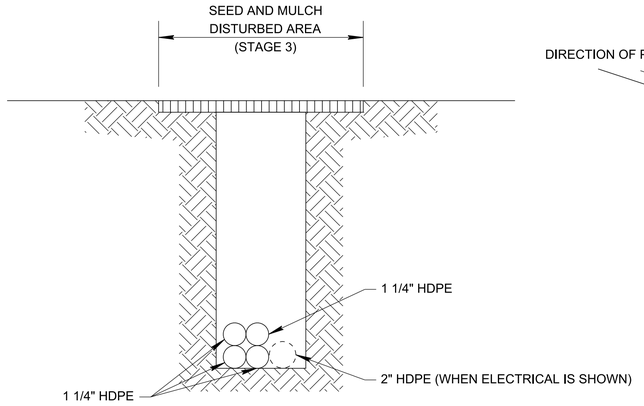
APPROXIMATE QUANTITIES (PER EACH POLE)			
ITEM NO.	DESCRIPTION	TOTAL	UNIT
209-09.01	SANDBAGS	6	BAG
209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	25	S.Y.
740-11.02	TEMPORARY SEDIMENT TUBE 12 IN	30	L.F.

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.

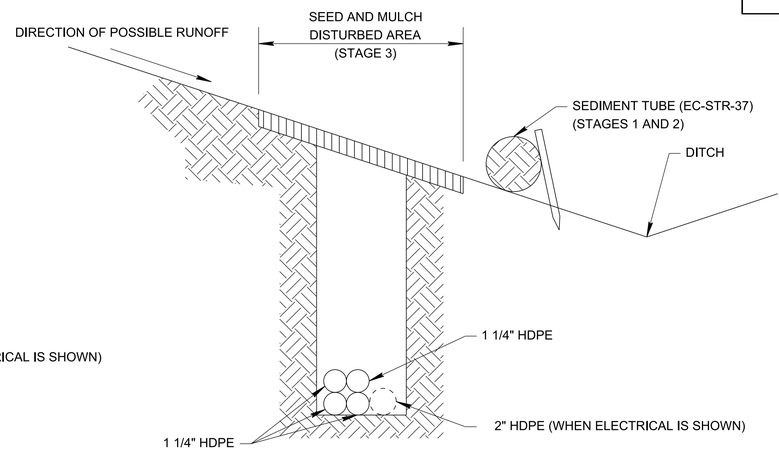
NOTES:

1. EROSION CONTROL DEVICES SHALL BE PLACED IMMEDIATELY AFTER AREA IS DISTURBED AND SHALL REMAIN IN PLACE UNTIL LOCATION IS COVERED WITH SEED AND MULCH.
2. 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.
3. EXCAVATED DIRT THAT IS NOT NEEDED FOR BACKFILL SHALL BE REMOVED IMMEDIATELY AFTER EXCAVATION.
4. ALL OPEN TRENCHES TO BE BACKFILLED IMMEDIATELY AFTER CONDUIT INSTALLATION AND SEED AND MULCH PLACED DOWN OVER THE TRENCHED AREA.
5. IF CONDUIT IS PLOWED, THE NEED FOR PERMANENT SEED AND MULCH WILL BE DETERMINED BY THE ENGINEER BASED ON THE AMOUNT OF DISTURBED SOIL.
6. 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

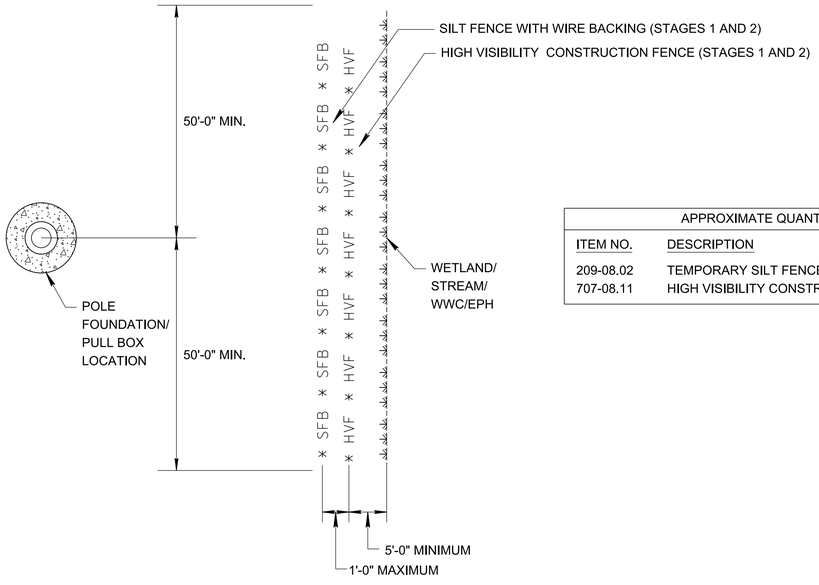


EROSION CONTROL FOR
TYPICAL TRENCH CONFIGURATION
FOR COMMUNICATION AND POWER
CONDUITS IN EARTH
N.T.S.



EROSION CONTROL FOR
TYPICAL TRENCH CONFIGURATION NEAR
STREAMS FOR COMMUNICATION AND POWER
CONDUITS IN EARTH
N.T.S.

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	0.150 AC.	0.160 AC	0.189 AC	0.499 AC.
EQUPMENT STAGING AREA	0.051 AC.	0.067 AC.	0.051 AC.	0.170 AC.
TOTAL PROJECT AREA				0.668 AC.

SEALED BY

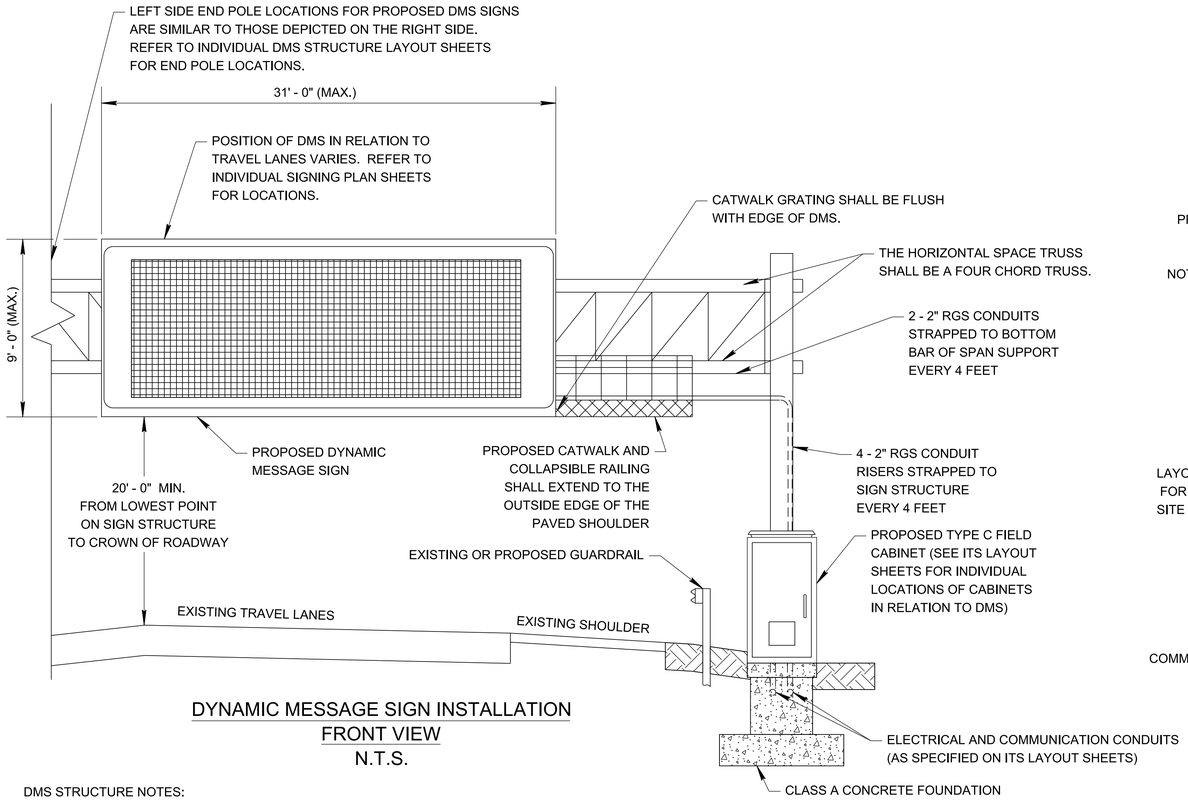
STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 119165
STATE OF TENNESSEE

8/25/2025

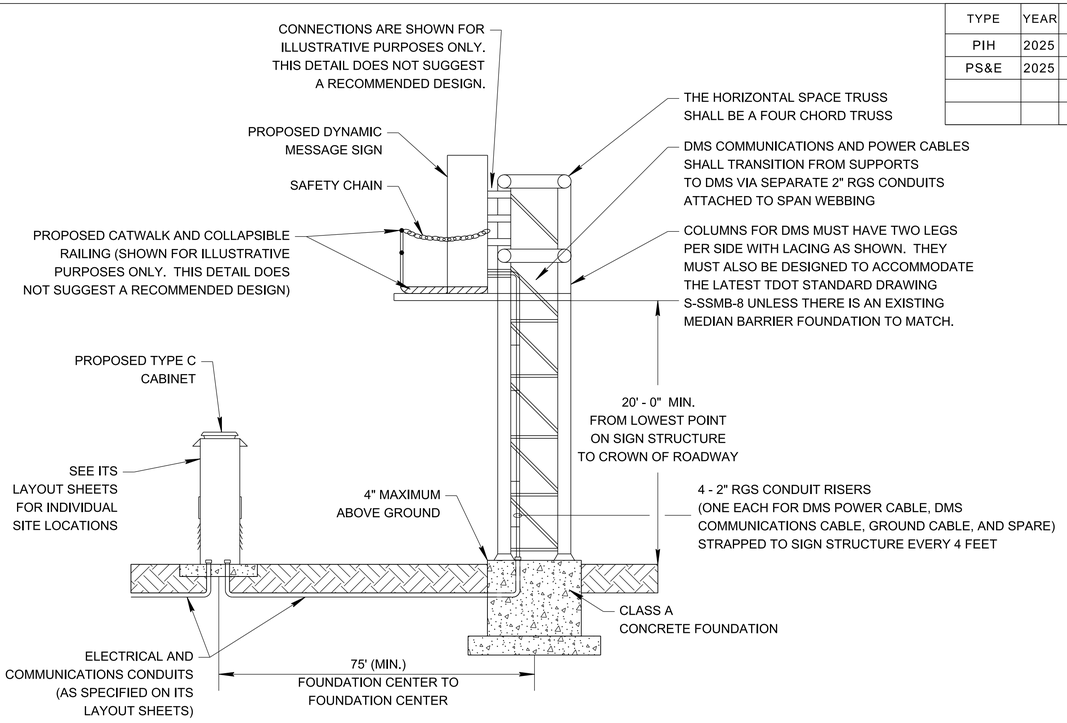
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F13
PS&E	2025	CRP-9900(174)	2F13



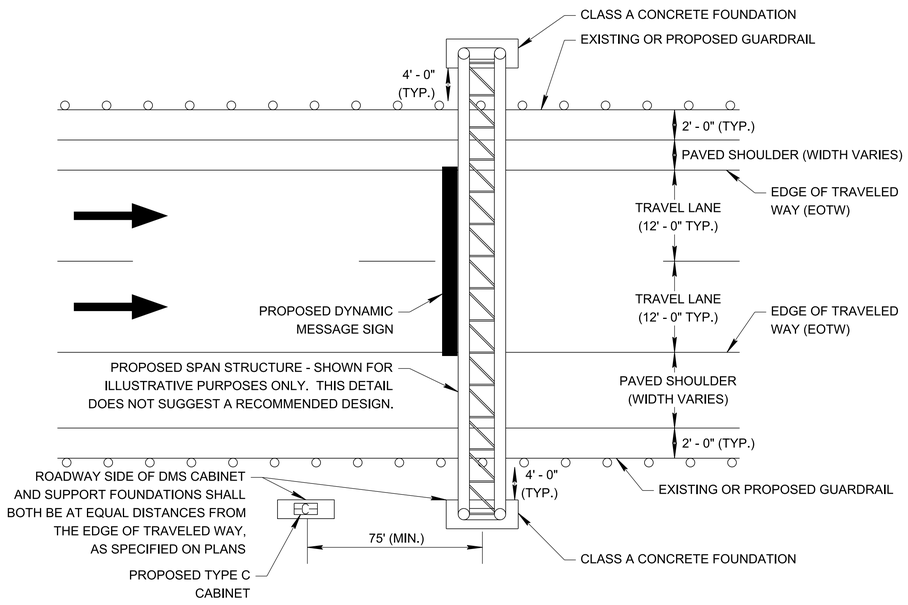
DYNAMIC MESSAGE SIGN INSTALLATION
FRONT VIEW
N.T.S.



DYNAMIC MESSAGE SIGN INSTALLATION
SIDE VIEW
N.T.S.

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 STOP 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).
14. DMS POWER AND COMMUNICATION CABLES SHALL BE INCIDENTAL TO THE DMS AND INCLUDED IN THE COST OF THE DMS.



DYNAMIC MESSAGE SIGN INSTALLATION
PLAN VIEW
N.T.S.

SEALED BY

STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
CERTIFICATE No. 118165

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS TYPICAL DMS DETAILS

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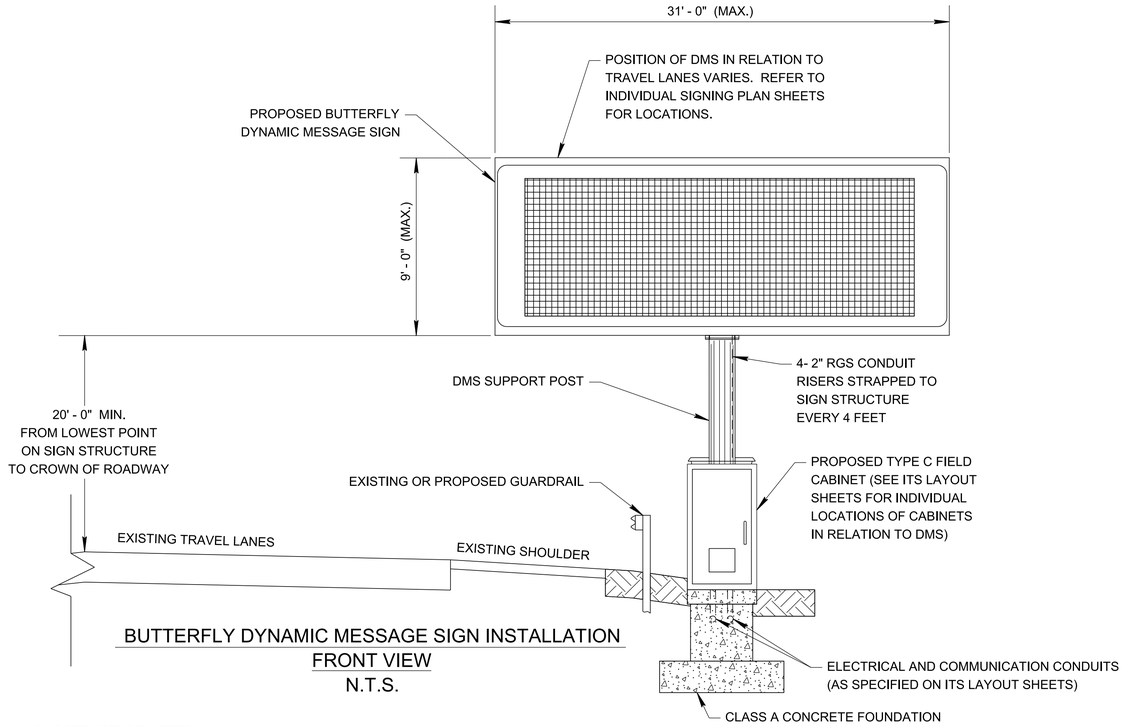
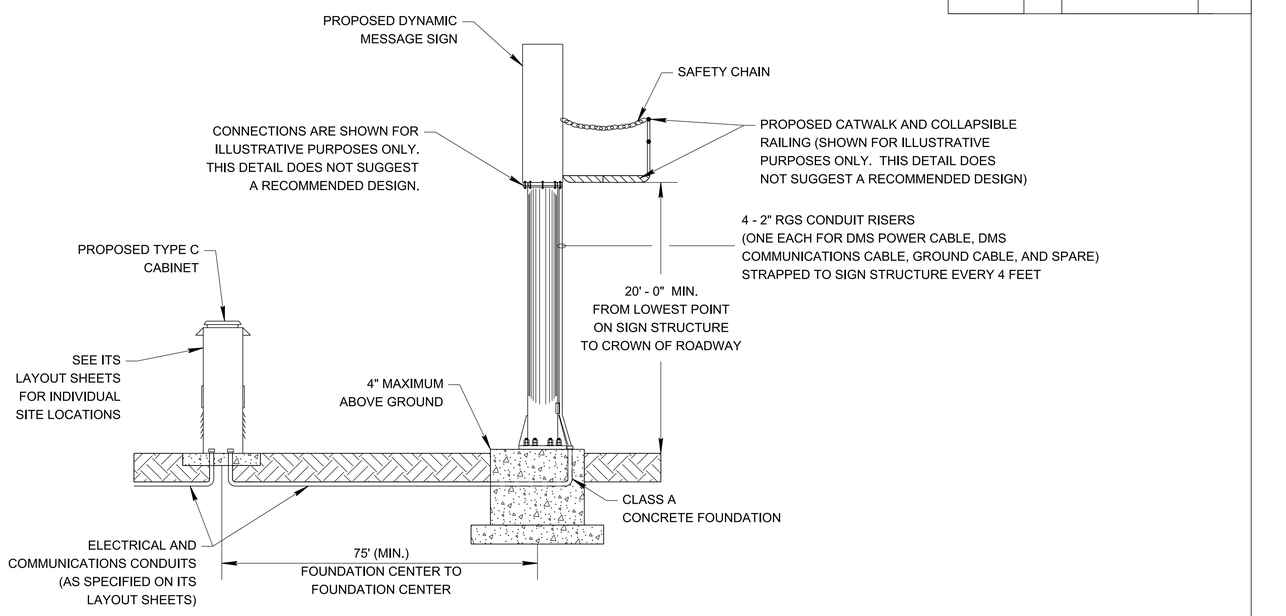
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F14
PS&E	2025	CRP-9900(174)	2F14



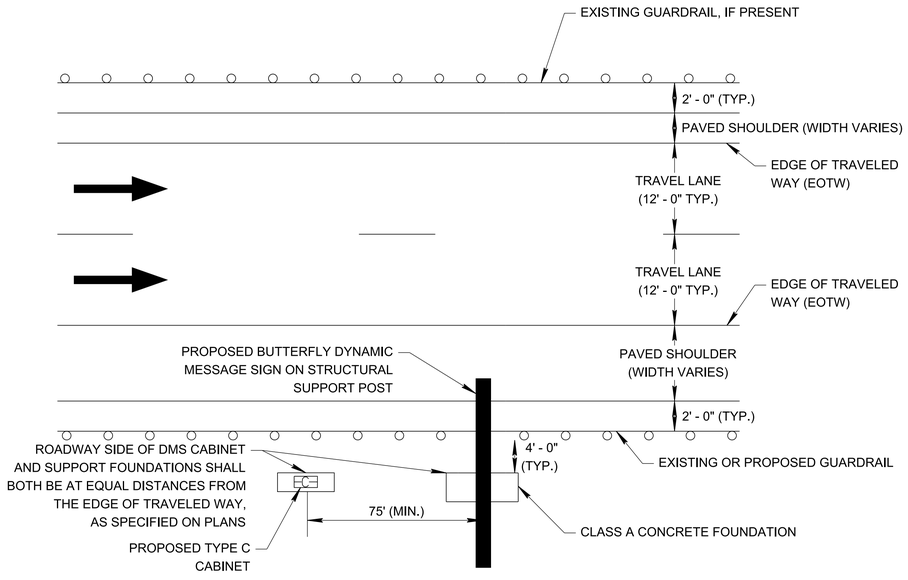
BUTTERFLY DYNAMIC MESSAGE SIGN INSTALLATION
FRONT VIEW
N.T.S.



BUTTERFLY DYNAMIC MESSAGE SIGN INSTALLATION
SIDE VIEW
N.T.S.

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 BUTTE FLY SIGN STRUCTURE, ITS FOUNDATION, AND THE CATWALK FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO THE DMS SIGN.
3. PROPOSED SUPPORT STRUCTURES ARE FOR ILLUSTRATIVE PURPOSES ONLY. THESE DETAILS DO NO SUGGEST A RECOMMENDED DESIGN.
4. MATERIAL USED MAY BE ALUMINUM OR STEEL, BUT MUST BE FULLY COMPATIBLE WITH DMS BODY.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. MATERIAL CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 30 DAYS PRIOR TO THE STRUCTURE ERECTION.
11. 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.
12. SEE GENERAL NOTES, GENERAL NOTES FOR SIGN SUPPORTS, AND SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.
13. REFER TO INDIVIDUAL DMS STRUCTURE LAYOUT SHEETS FOR SIGN LAYOUTS.
14. PROVISIONS FOR WIRING AS WELL AS GROUNDING SHALL BE PROVIDED (SEE TDOT STD DWG. T-S-15).
15. DMS POWER AND COMMUNICATION CABLES SHALL BE INCIDENTAL TO THE DMS AND INCLUDED IN THE COST OF THE DMS.



BUTTERFLY DYNAMIC MESSAGE SIGN INSTALLATION
PLAN VIEW
N.T.S.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS TYPICAL BUTTERFLY DMS DETAILS

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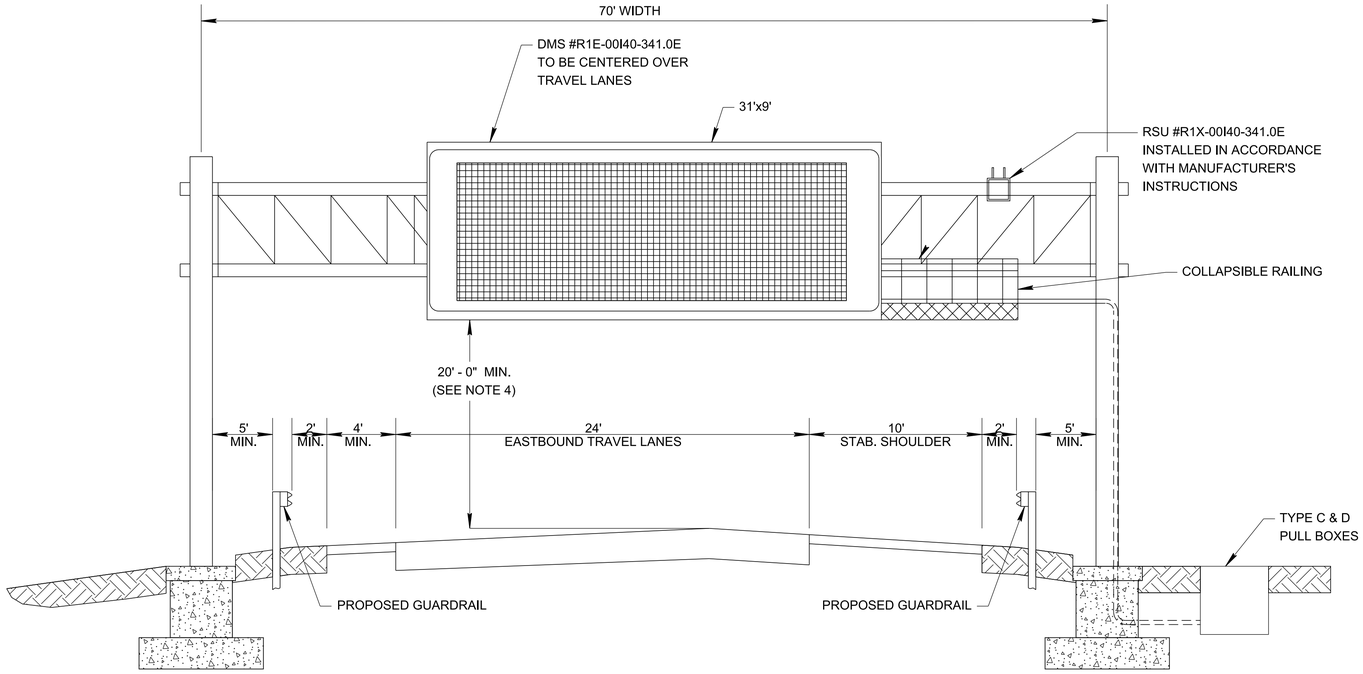
DMS STRUCTURE NOTES:

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 CONDUIT AND CABLE ROUTING.
4. DIMENSION SHOWN FROM LOW POINT OF SIGN TO HIGH POINT OF ROAD.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F15
PS&E	2025	CRP-9900(174)	2F15

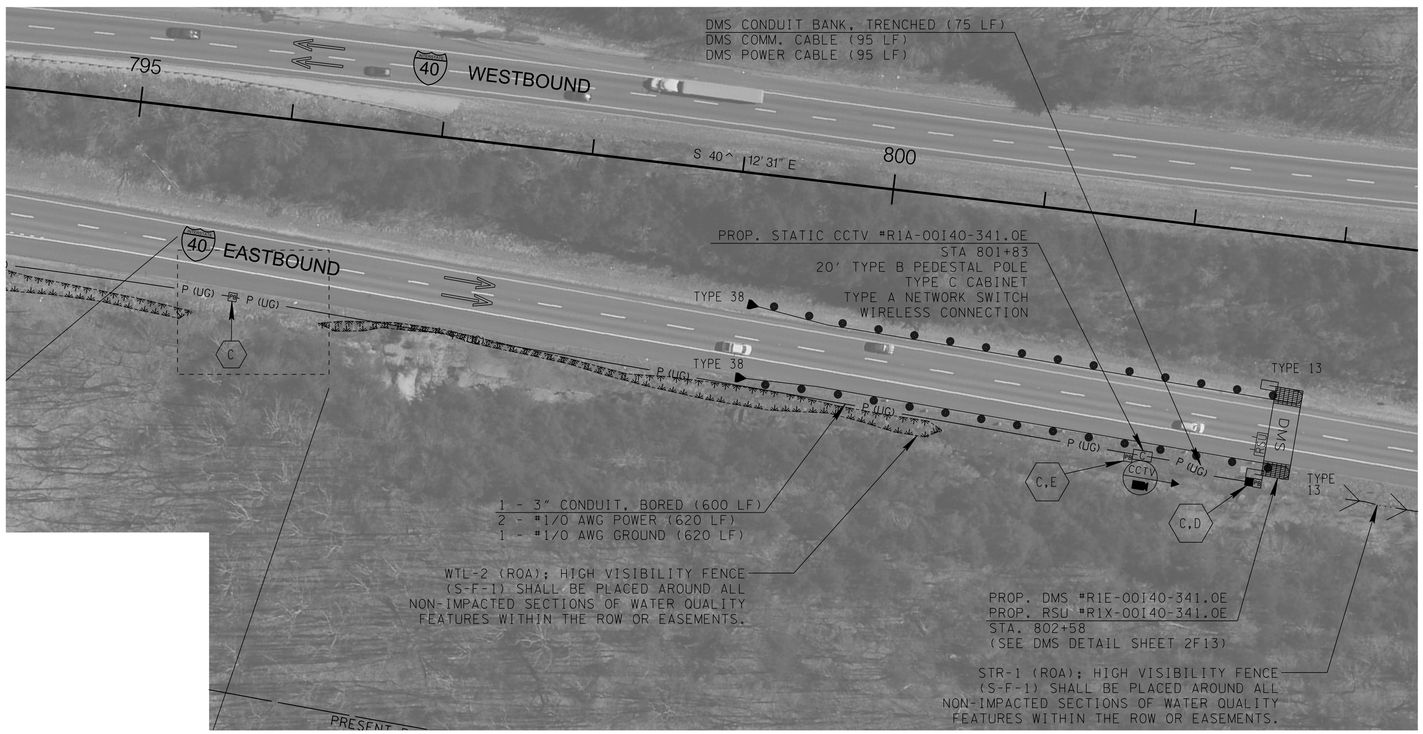


I-40 STA. 802+62
SHEET 7
I-40 EASTBOUND

SIGN STRUCTURE ID NO:
73SNU0753963

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

U-75-396



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COMMERCE & TRADE
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE SIGN CROSS-SECTION SITE 1

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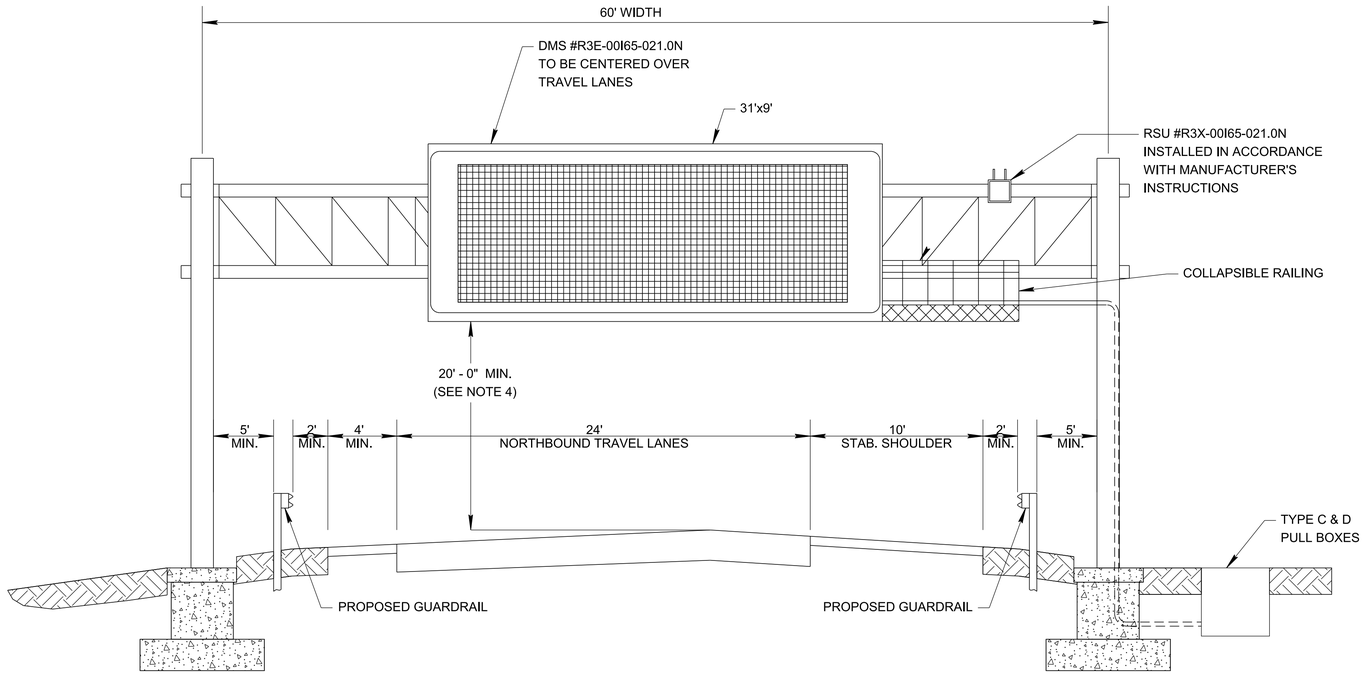
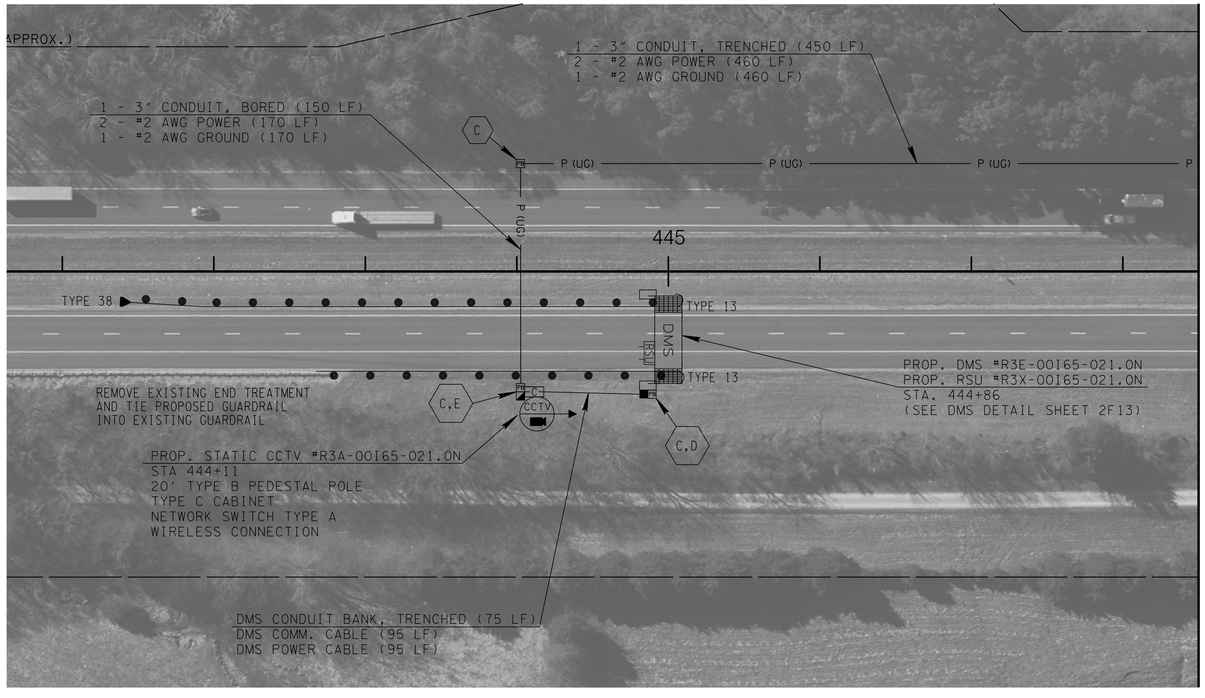
DMS STRUCTURE NOTES:

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.



I-65 STA. 444+86
SHEET 8
I-65 NORTHBOUND



TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F16
PS&E	2025	CRP-9900(174)	2F16

SIGN STRUCTURE ID NO:
28SNU0753973

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

U-75-397

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STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 118165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE SIGN CROSS-SECTION SITE 2A

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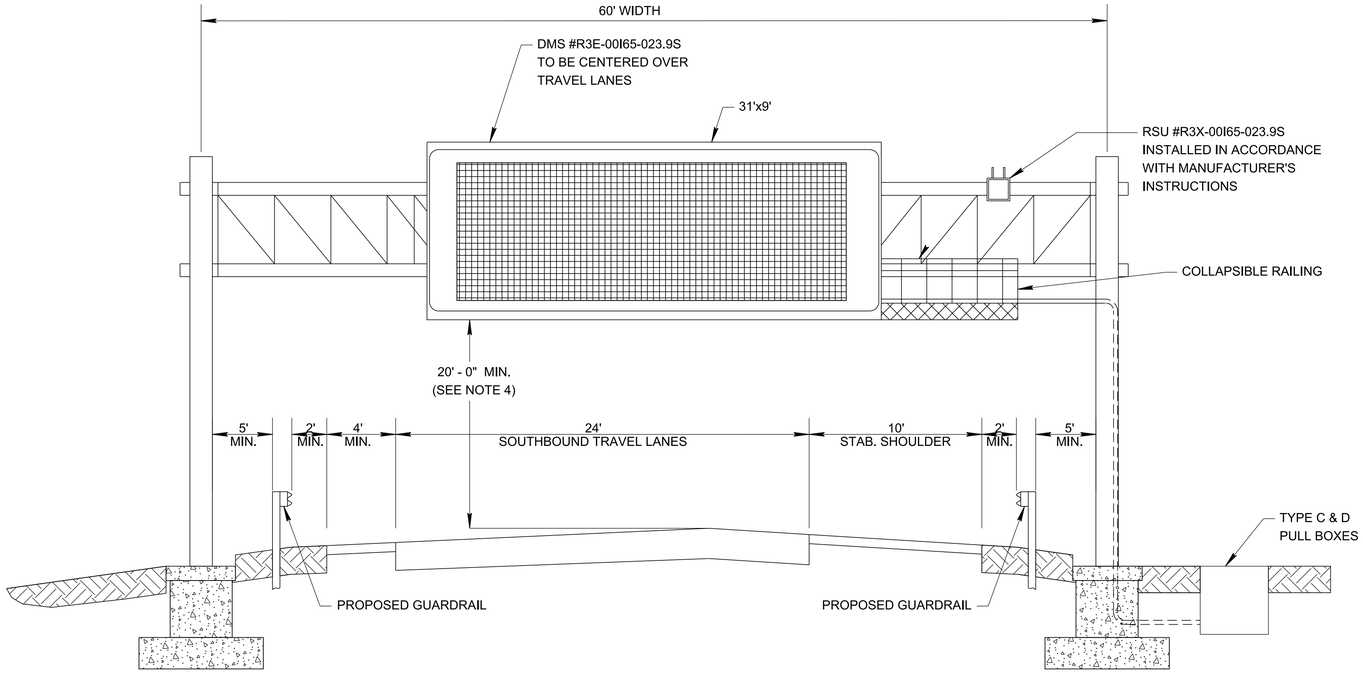
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F17
PS&E	2025	CRP-9900(174)	2F17

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.



I-65 STA. 596+44
SHEET 11
I-65 SOUTHBOUND

SIGN STRUCTURE ID NO:
59SNU0753983

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

U-75-398

SEALED BY

STUART M. SAMBERG
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COMMERCE
No. 109615
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE SIGN CROSS-SECTION SITE 2B

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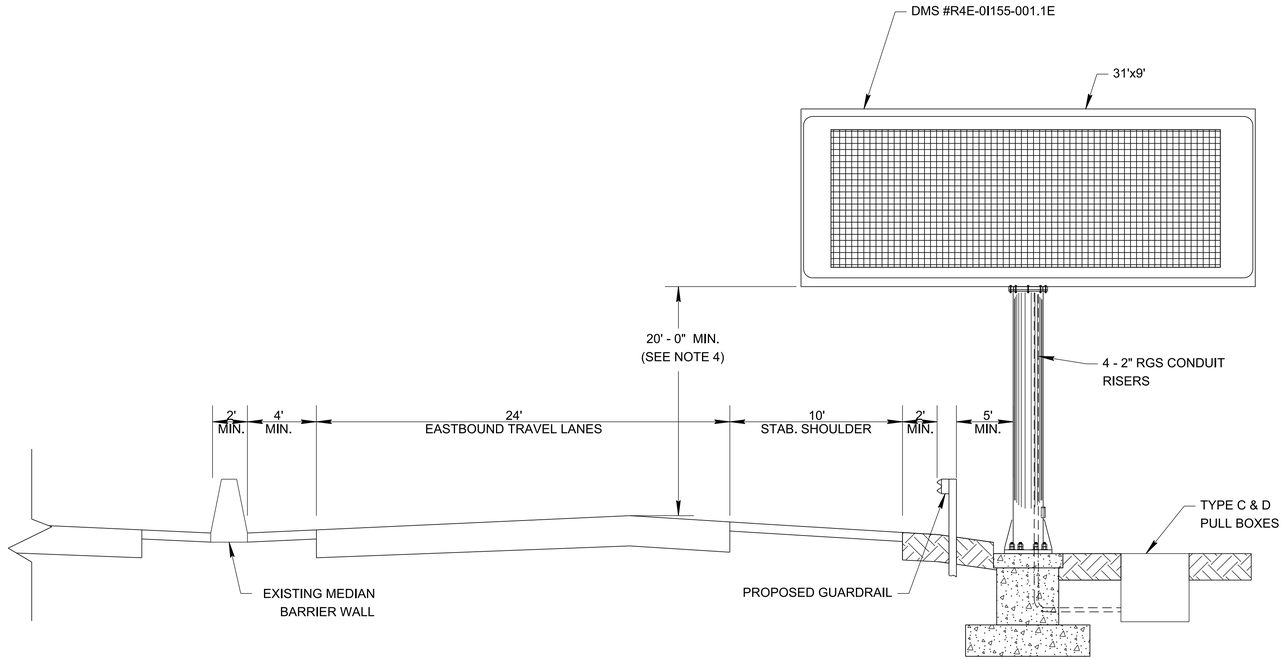
DMS STRUCTURE NOTES:

1. REFER TO DMS DETAIL SHEET 2F14 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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F18
PS&E	2025	CRP-9900(174)	2F18

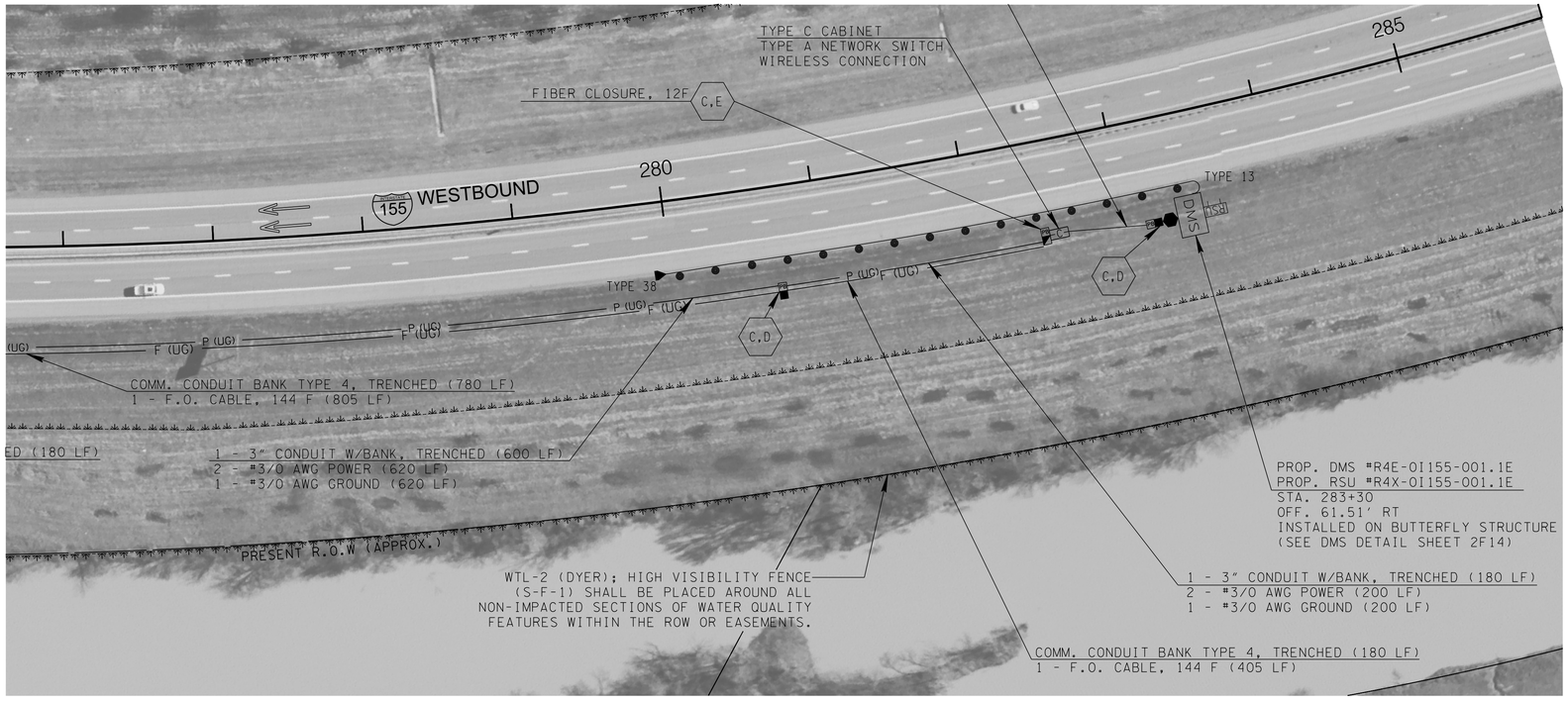


I-155 STA. 283+30
SHEET 15
I-155 EASTBOUND

SIGN STRUCTURE ID NO:
23SNU0753993

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

U-75-399



SEALED BY

STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 118165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE SIGN CROSS-SECTION SITE 3

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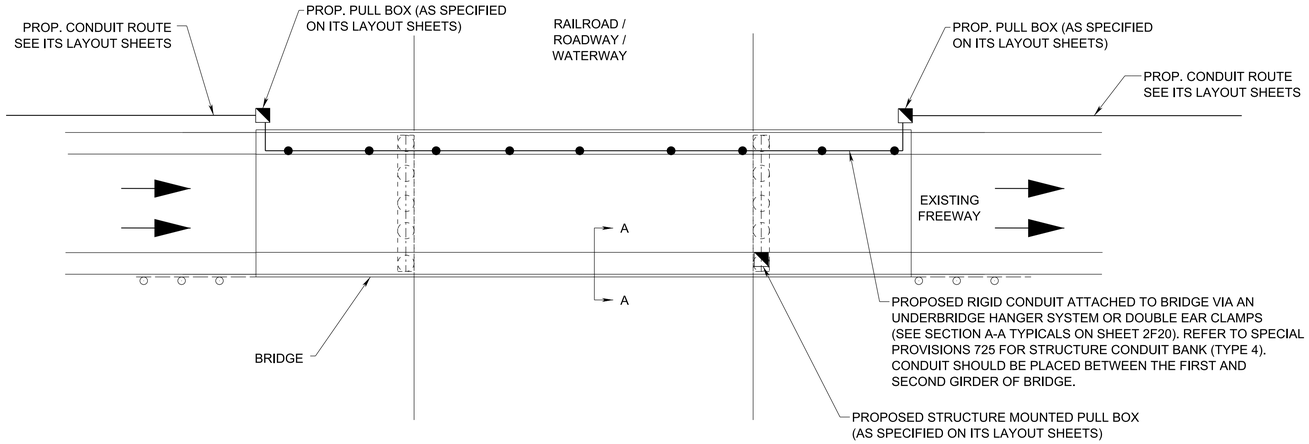
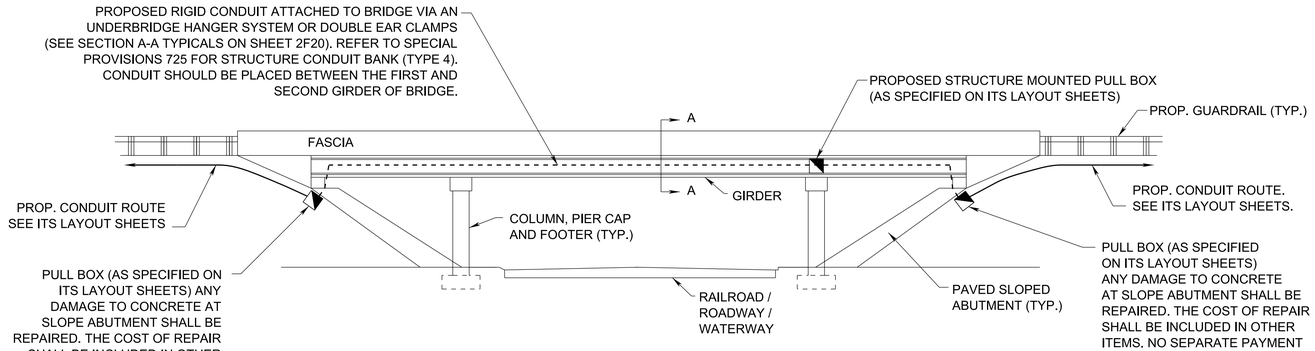


TYPICAL BRIDGE PLAN

N.T.S.

ALTERNATE DETAIL WHEN ROCK OR SHOT ROCK IS ACTUALLY
ENCOUNTERED AND VERIFIED BY STATE CONSTRUCTION PERSONNEL.



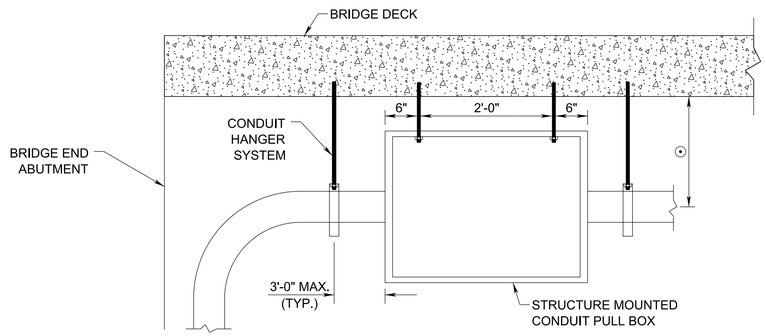
TYPICAL BRIDGE PROFILE

N.T.S.

ALTERNATE DETAIL WHEN ROCK OR SHOT ROCK IS ACTUALLY
ENCOUNTERED AND VERIFIED BY STATE CONSTRUCTION PERSONNEL.

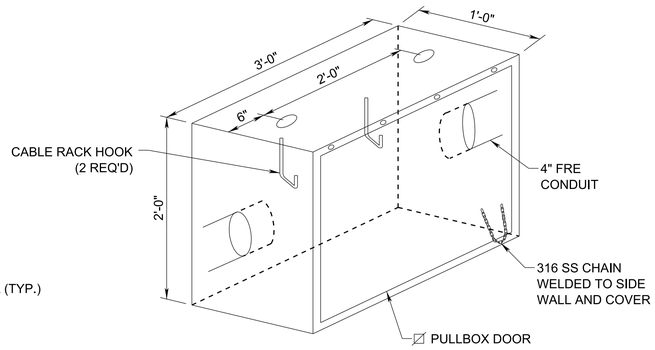
NOTES:

1. SEE ITS LAYOUT SHEETS FOR BRIDGE CROSSING LOCATIONS.
2. THESE TYPICAL SECTIONS SHOULD BE APPLIED TO EACH BRIDGE CROSSING AS NECESSARY. IF VARIATIONS FROM THESE TYPICALS ARE NECESSARY, CONTRACTOR SHALL SUBMIT PROPOSED DETAILS TO THE ENGINEER FOR REVIEW AND APPROVAL.
3. ATTACHMENTS TO BE APPROXIMATELY CENTERED IN AN EXTERIOR GIRDER BAY EXCEPT FOR REINFORCED CONCRETE HOLLOW BOX STRUCTURES.
4. ALL UTILITY CONDUIT, HANGERS, BRACKETS, ETC. MUST BE ABOVE THE LOW POINT OF EACH SUPERSTRUCTURE.
5. NO WELDING OR ATTACHMENTS TO STRUCTURAL STEEL ARE PERMITTED.
6. THE HANGER SYSTEM SUPPORT SPACING SHALL BE 10'-0" MAXIMUM. SPACINGS LESS THAN 10'-0" MAY BE REQUIRED TO AVOID CONFLICTS WITH DIAPHRAGMS, BRACINGS, AND/OR STIFFENERS. DIAPHRAGMS AND ABUTMENT WALLS ARE NOT CONSIDERED "SUPPORTS" FOR CONDUIT.
7. ALL EXPOSED CONDUIT SHALL BE RIGID. SEE SPECIAL PROVISIONS 725 FOR RIGID CONDUIT OPTIONS.
8. ALL OPENINGS IN DIAPHRAGMS AND ABUTMENT WALLS SHALL BE SEALED WITH EXPANDABLE MATERIAL (i.e. RUBBERIZED FLOWABLE FILL EPOXY) THAT RETAINS FILL AND PREVENTS WATER LEAKAGE.
9. ALL BRIDGE ATTACHMENTS NEED TO BE APPROVED BY TDOT DIVISION OF STRUCTURES AND SHOWN ON AS-BUILD BRIDGE DRAWINGS.



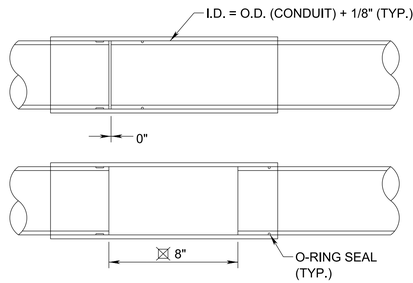
STRUCTURE MOUNTED PULL BOX DETAIL 1

N.T.S.



STRUCTURE MOUNTED PULL BOX DETAIL 2

N.T.S.



GASKET EXPANSION JOINT DETAIL 3

N.T.S.

10. IN NO CASE SHALL CONDUIT BE ATTACHED TO THE OUTSIDE OF THE EXTERIOR GIRDER WITHOUT APPROVAL FROM TDOT-STRUCTURES DIVISION. APPROVAL WILL ONLY BE GIVEN UNDER UNUSUAL CIRCUMSTANCES.
11. THE ABOVE DETAILS SHOWING THE PULL BOXES AND CONDUIT LOCATIONS SHOULD BE USED AT ALL LOCATIONS. PULL BOXES AND BRIDGE CONDUIT SHOULD BE LOCATED IN THE FIELD BY CONTRACTOR AND STATE CONSTRUCTION PERSONNEL. BRIDGE PULL BOXES AND CONDUIT LOCATIONS ON THE ITS PLAN SHEETS ARE FOR SCHEMATIC PURPOSES ONLY. IF THERE IS A DIFFERENCE BETWEEN WHAT IS SHOWN ON THE PLAN SHEETS AND WHAT IS SHOWN ON THESE DETAILS, THESE DETAILS SHALL TAKE PRECEDENCE.

⊠ CONDUIT EXPANSION JOINTS TO BE INSTALLED PER MANUFACTURER RECOMMENDATION. EXPANSION JOINT SHOWN IN DETAIL 3, THIS SHEET, IS FOR INFORMATIONAL PURPOSES ONLY. ADDITIONAL DETAILS FOR ANCHORING CONDUITS TO PROVIDE POINT OF FIXITY BETWEEN EXPANSION JOINTS SHALL BE PER MANUFACTURER'S REQUIREMENTS.

⊠ ENSURE PULLBOX DOOR PANEL IS NOT OBSTRUCTED BY ANY BRIDGE STRUCTURAL COMPONENTS WHEN FULLY OPENED.

⊙ FOR CONDUIT AND PULL BOX MOUNTING HEIGHT, SEE NOTE 3 ON TYPICAL BRIDGE ATTACHMENT DETAILS SHEET 2F20.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F19
PS&E	2025	CRP-9900(174)	2F19

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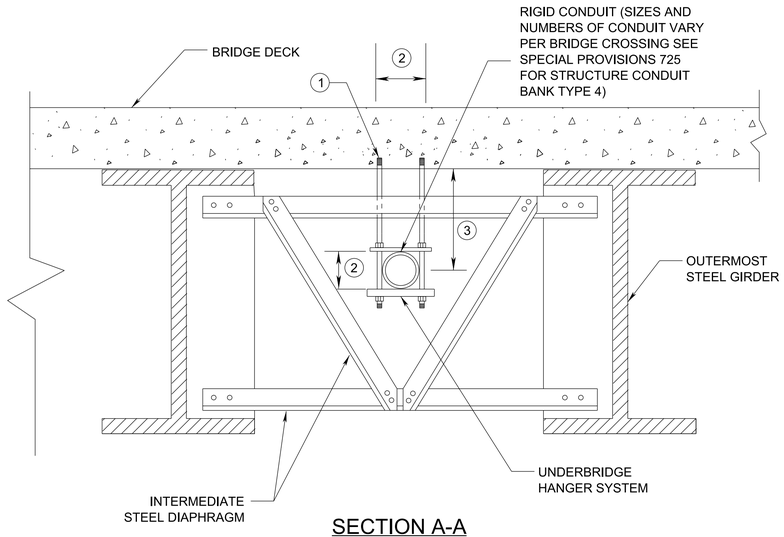
8/25/2025

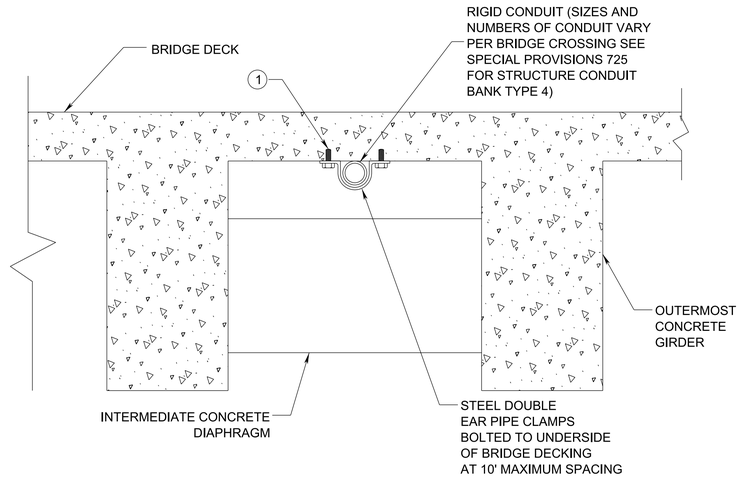
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS TYPICAL BRIDGE ATTACHMENT

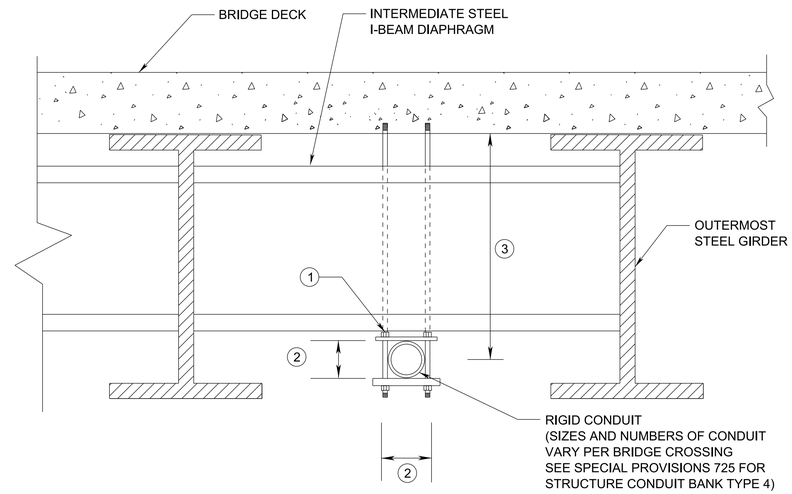
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F20
PS&E	2025	CRP-9900(174)	2F20



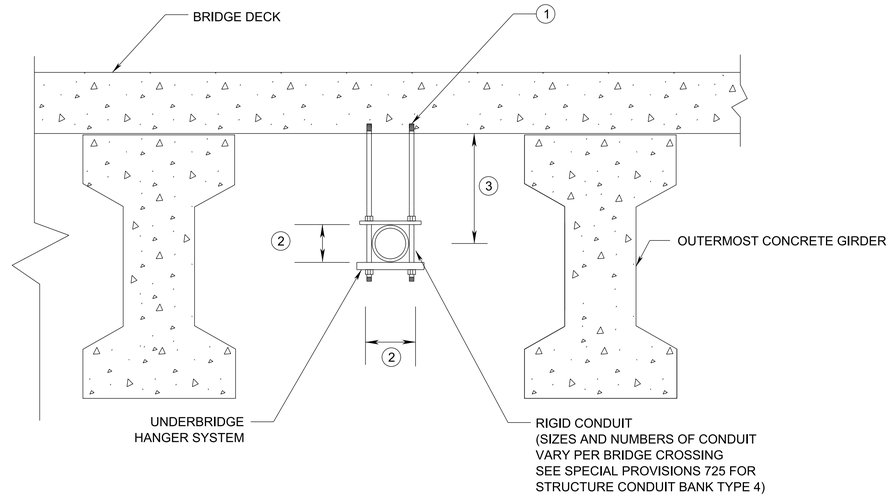
SECTION A-A
TYPICAL 1
N.T.S.



SECTION A-A
TYPICAL 3
N.T.S.



SECTION A-A
TYPICAL 2
N.T.S.



SECTION A-A
TYPICAL 4
N.T.S.

NOTES:

1. THE METHOD OF ATTACHMENT FOR THE HANGER SYSTEM TO THE BRIDGE DECK SLAB SHALL BE DRILLING AND EPOXY FOR EXISTING BRIDGES. WHEN ATTACHING TO A NEW CONSTRUCTION BRIDGE, USE CAST-IN-PLACE CONCRETE INSERTS DURING THE DECK SLAB POUR. DRILLING AND EPOXY WILL NOT BE ALLOWED ON A NEW CONSTRUCTION BRIDGE. SPACING OF HANGERS SHALL BE 10' MAXIMUM.
2. AS RECOMMENDED BY UNDERBRIDGE HANGER SYSTEM MANUFACTURER BASED ON ACTUAL CONDUIT SIZES USED.
3. AS RECOMMENDED BY UNDERBRIDGE HANGER SYSTEM MANUFACTURER BASED ON ACTUAL CONDUIT SIZES USED. HOWEVER THIS DIMENSION SHALL BE LESS THAN THE DEPTH OF THE GIRDER SO THAT THE UNDERBRIDGE HANGER SYSTEM IS NOT LOWER THAN THE BOTTOM OF THE GIRDERS.
4. DIAMETER OF CORE SHALL BE 6" FOR 4" CONDUITS, 5" FOR 3" CONDUITS, AND 4" FOR 2" CONDUITS. A RUBBERIZED FLOWABLE FILL EPOXY SHALL BE PLACED IN THE VOID BETWEEN THE CONCRETE DIAPHRAGM AND THE PROPOSED CONDUIT.

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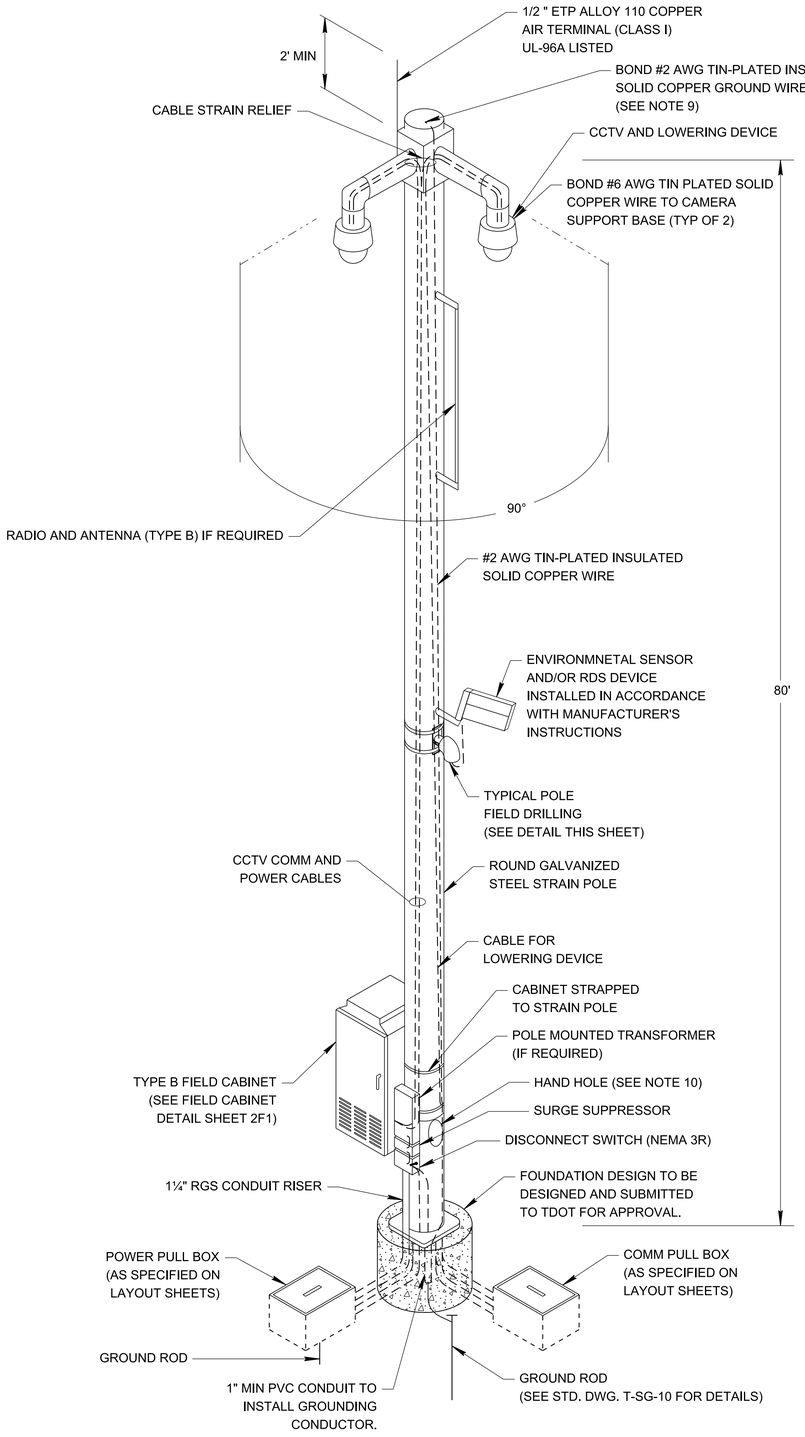
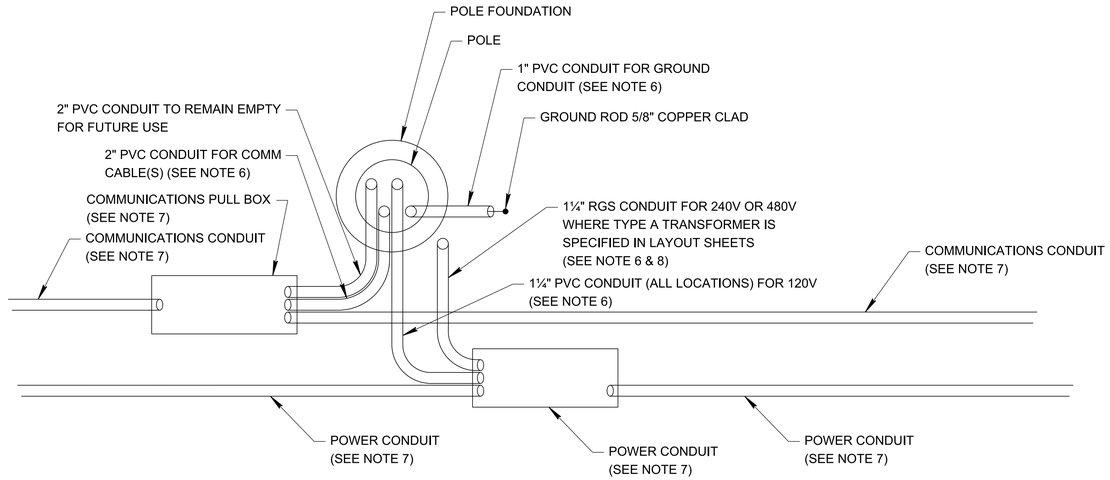
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS TYPICAL BRIDGE ATTACHMENT

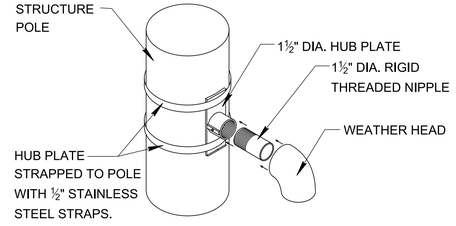
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F21
PS&E	2025	CRP-9900(174)	2F21



TYPICAL CCTV WITH
CAMERA LOWERING DEVICE
ON 80' POLE
N.T.S.



TYPICAL CONDUIT AT NEW POLE FOUNDATIONS
N.T.S.



NOTE: 1½" HOLE TO BE DRILLED BEHIND HUB PLATE. ALL FIELD DRILLED HOLES SHALL BE LOCATED AFTER EQUIPMENT POSITION HAS BEEN DETERMINED SO THAT A MAXIMUM 12" DRIP LOOP IS MAINTAINED. COST OF FIELD DRILLED HOLES TO BE INCLUDED IN THE COST OF THE DEVICE OR POLE.

TYPICAL POLE FIELD DRILLING
N.T.S.

NOTES:

1. 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.
2. ALL EQUIPMENT CONNECTIONS SHALL BE MADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.
3. 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.
4. 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.
5. LOWERING DEVICE WIRES SHALL NOT COME INTO CONTACT WITH COMMUNICATION CABLES OR EACH OTHER.
6. 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.
7. CONDUIT AND PULL BOXES AS SPECIFIED AND TABULATED ON THE LAYOUT SHEETS.
8. BOND RGS CONDUIT TO POLE GROUND ROD.
9. 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.
10. THE HAND HOLE SHALL NOT BE PLACED DIRECTLY UNDERNEATH THE CAMERA.

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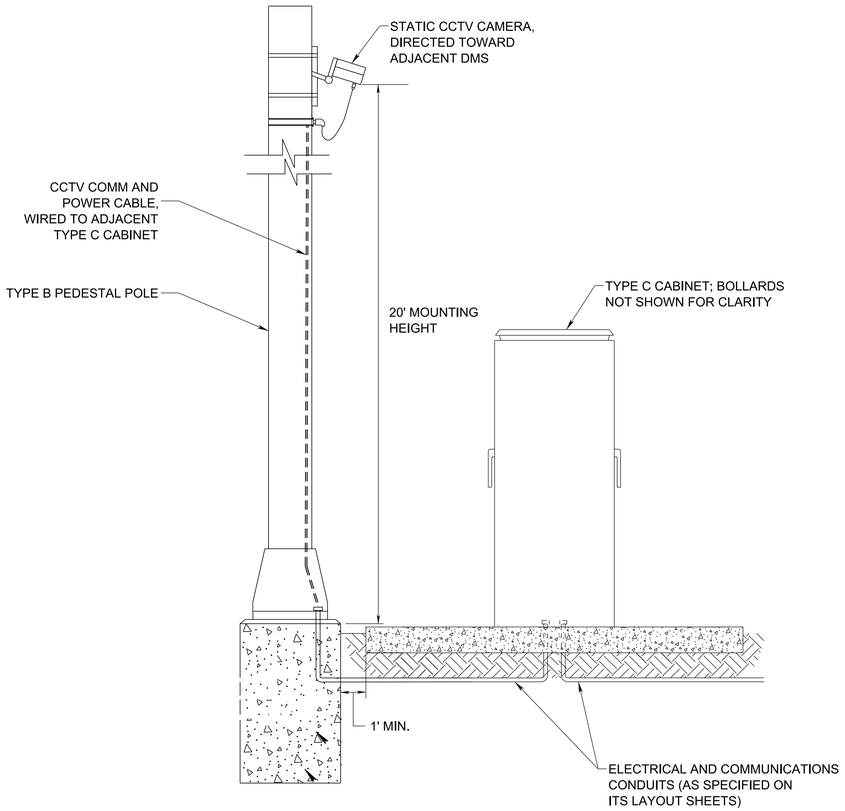
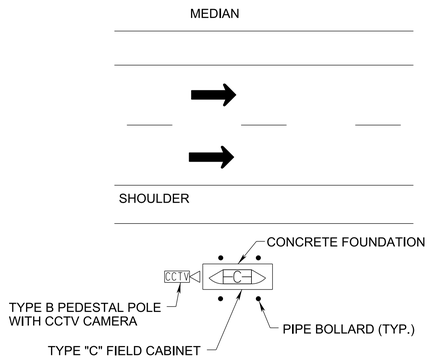
TYPICAL CCTV CAMERA DETAILS

NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2F22
PS&E	2025	CRP-9900(174)	2F22



ELEVATION VIEW



DETAIL: PLAN VIEW OF TYPE "C" FIELD CABINET WITH CCTV CAMERA CONFIGURATION

N.T.S.

NOTES

1. THIS DETAIL SHALL APPLY TO CCTV CAMERAS INSTALLED ADJACENT TO TYPE C CABINETS FOR DMS OPERATION VERIFICATION PURPOSES.
2. 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, 2F22 FOR TYPICAL CCTV DETAILS.

NOT TO SCALE

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TYPE C CABINET WITH CCTV DETAIL

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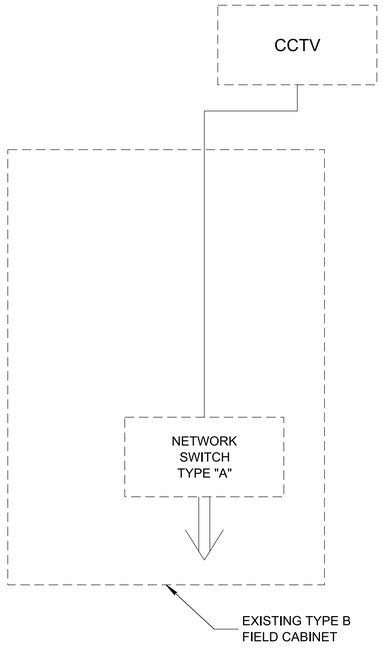
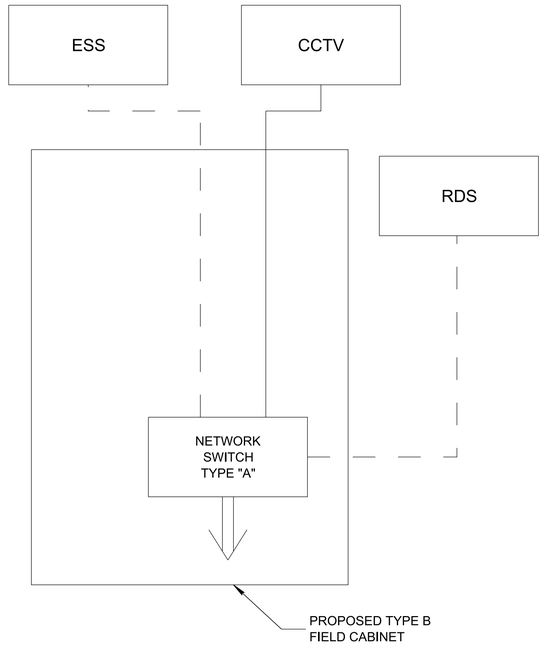
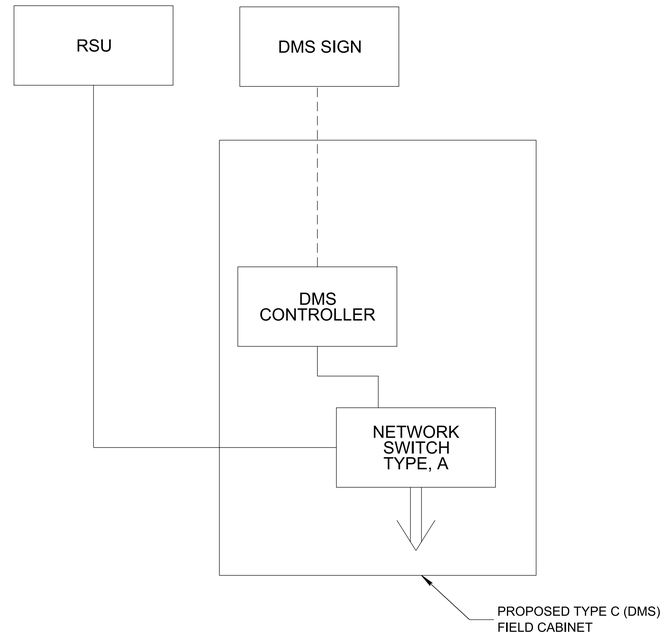


TYPICAL EXISTING CCTV



TYPICAL PROPOSED CCTV WITH
ONE PROPOSED ESS AND RDS



TYPICAL PROPOSED DMS WITH ONE
PROPOSED RDS AND RSU

TYPE	YEAR	PROJECT NO.	SHEET NO.
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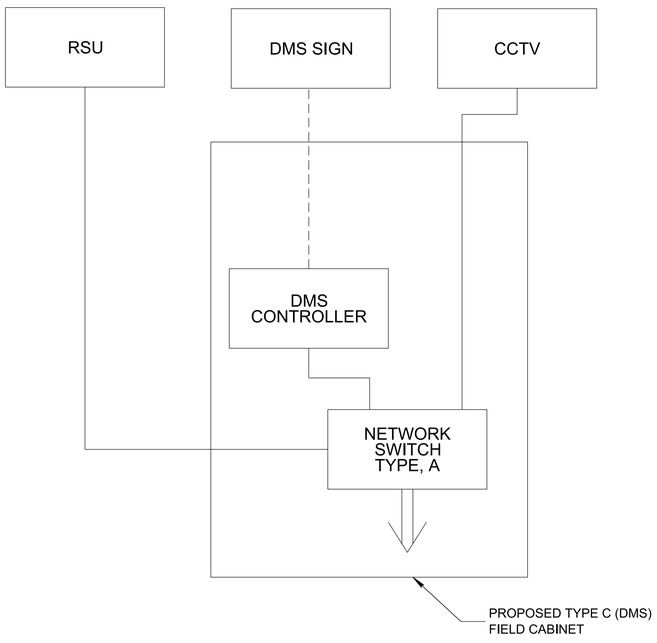
PS&E	2025	CRP-9900(174)	2G



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

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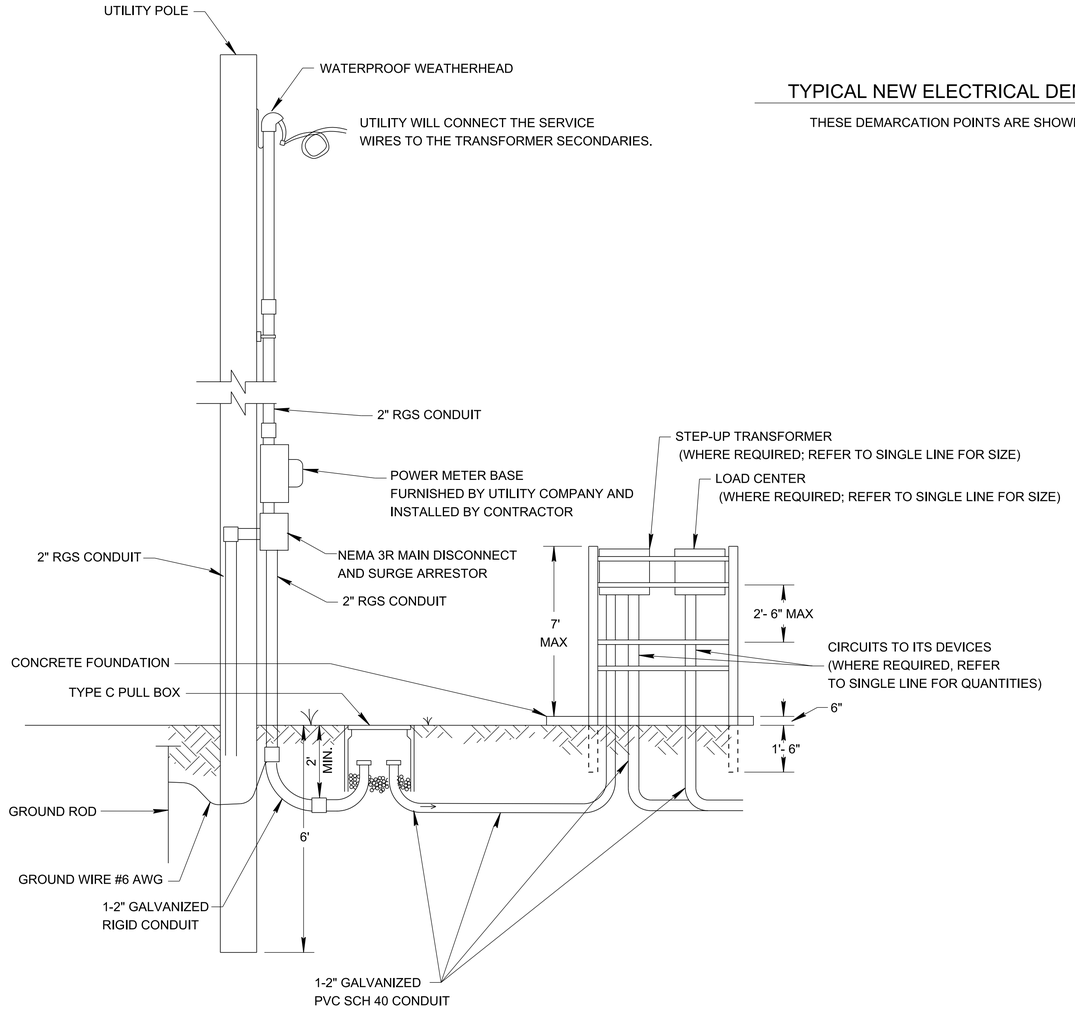
COMMUNICATIONS EQUIPMENT BLOCK DIAGRAMS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2H
PS&E	2025	CRP-9900(174)	2H

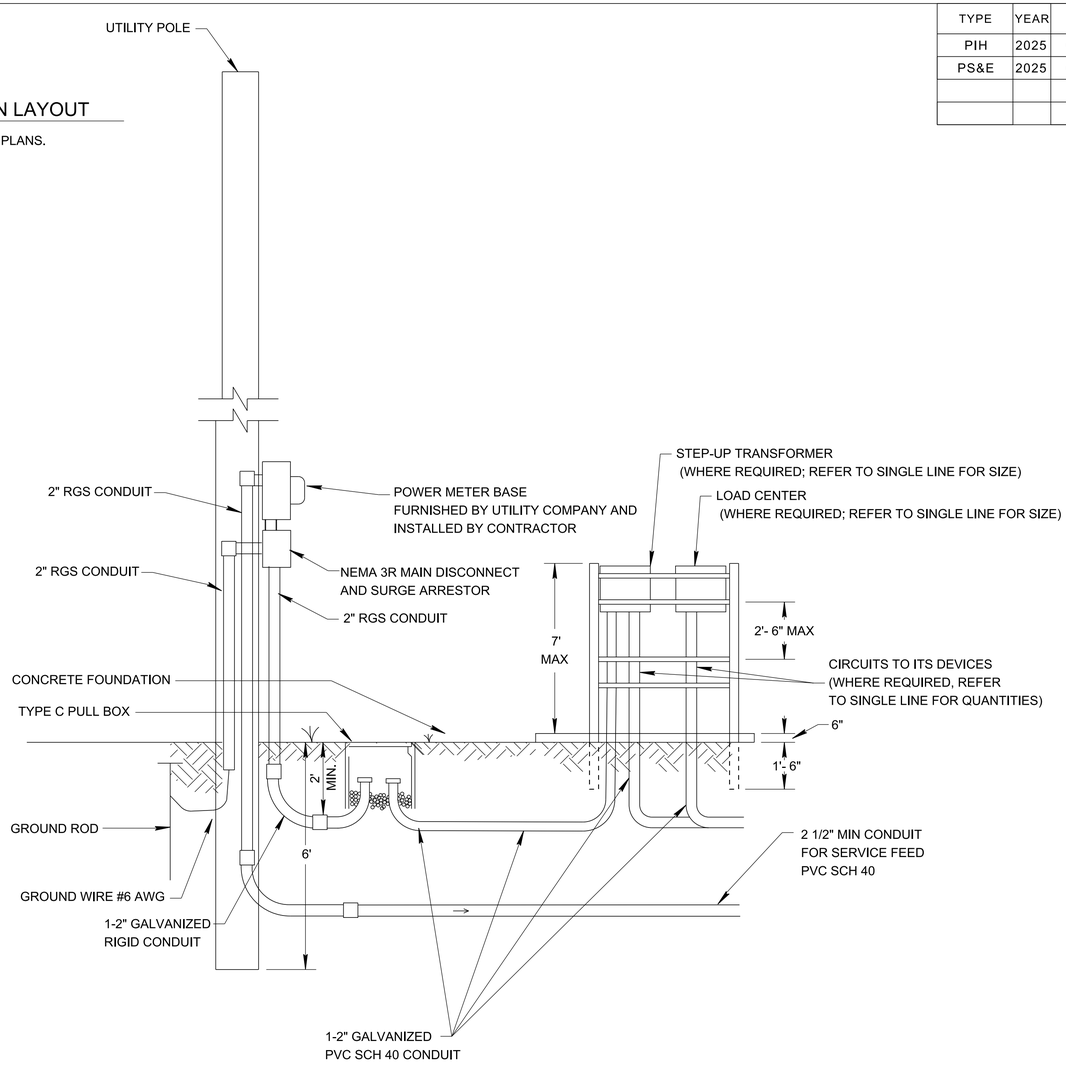
TYPICAL NEW ELECTRICAL DEMARCATION LAYOUT

THESE DEMARCATION POINTS ARE SHOWN AS ● IN PLANS.



OVERHEAD DEMARCATION ARRANGEMENT

N.T.S.



UNDERGROUND DEMARCATION ARRANGEMENT

N.T.S.

GENERAL NOTES:

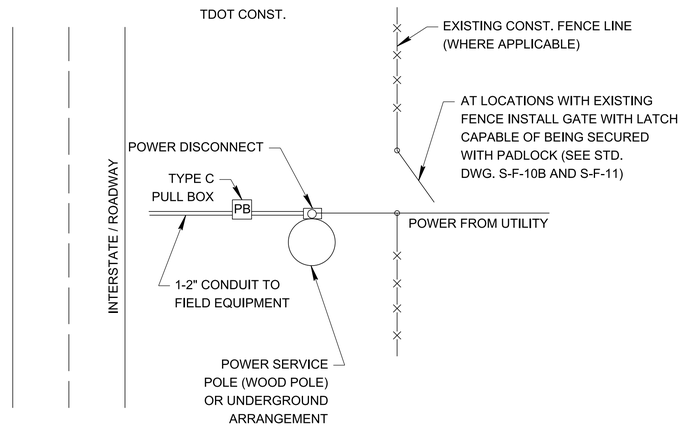
1. CONTACT POWER CO. ENGINEER FOR THE LOCATION OF CONDUIT ON POLE PRIOR TO CONSTRUCTION.
2. ENTIRE INSTALLATION MUST MEET OR EXCEED ALL LOCAL AND NATIONAL ELECTRICAL CODES.
3. SERVICE WIRE SHALL ENTER DISCONNECT SWITCH PRIOR TO CABINET HOME RUN.
4. FOR LOCATION OF POWER SERVICE POLE SEE PLAN SHEETS.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

POWER POLE NOTES:

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

DEMARCATION NOTES:

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



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DEMARCATION DETAILS

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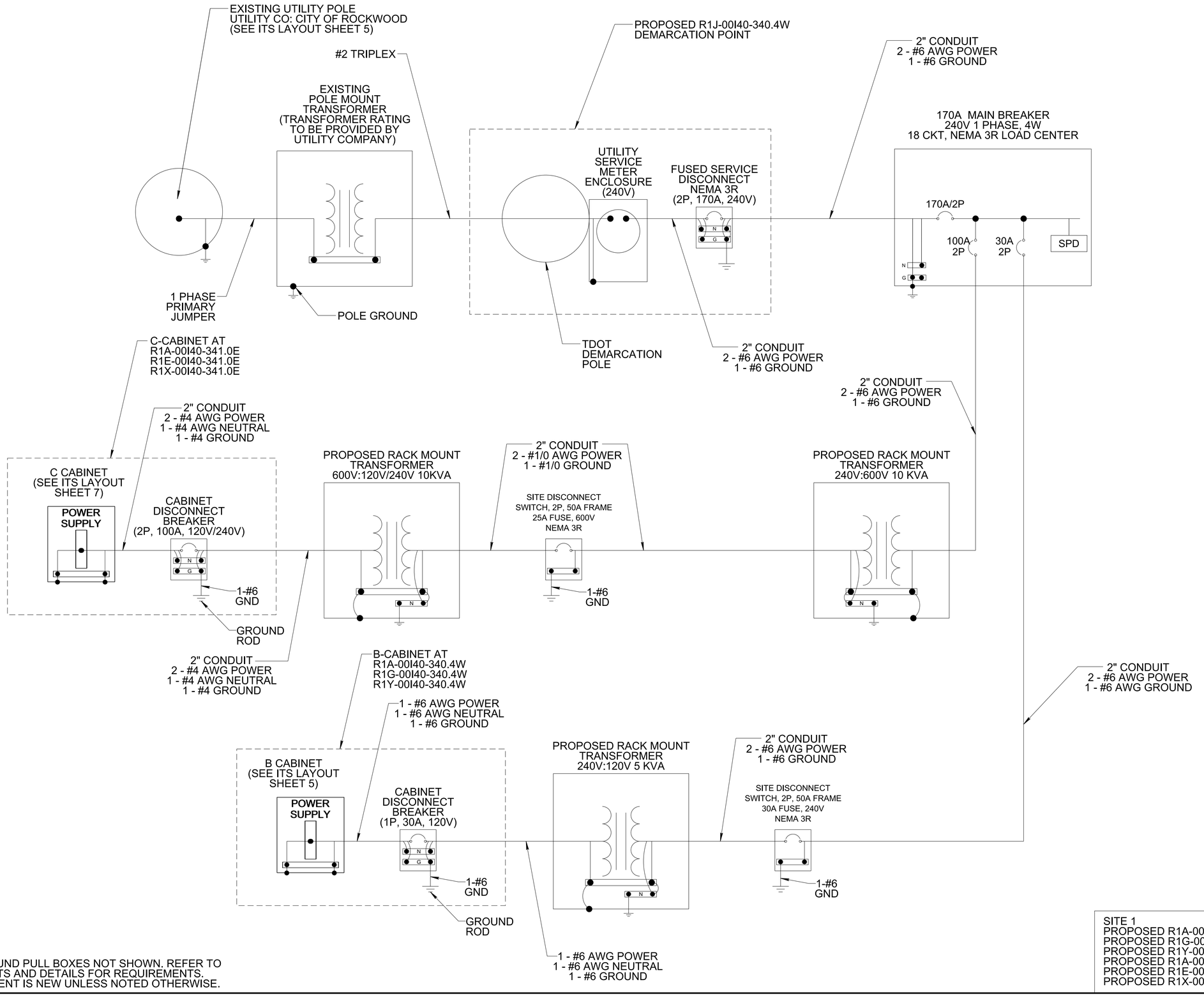
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2H1
PS&E	2025	CRP-9900(174)	2H1



NOTES:

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

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8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SITE 1
PROPOSED R1A-00I40-340.4W
PROPOSED R1G-00I40-340.4W
PROPOSED R1Y-00I40-340.4W
PROPOSED R1A-00I40-341.0E
PROPOSED R1E-00I40-341.0E
PROPOSED R1X-00I40-341.0E

POWER SERVICE DETAILS

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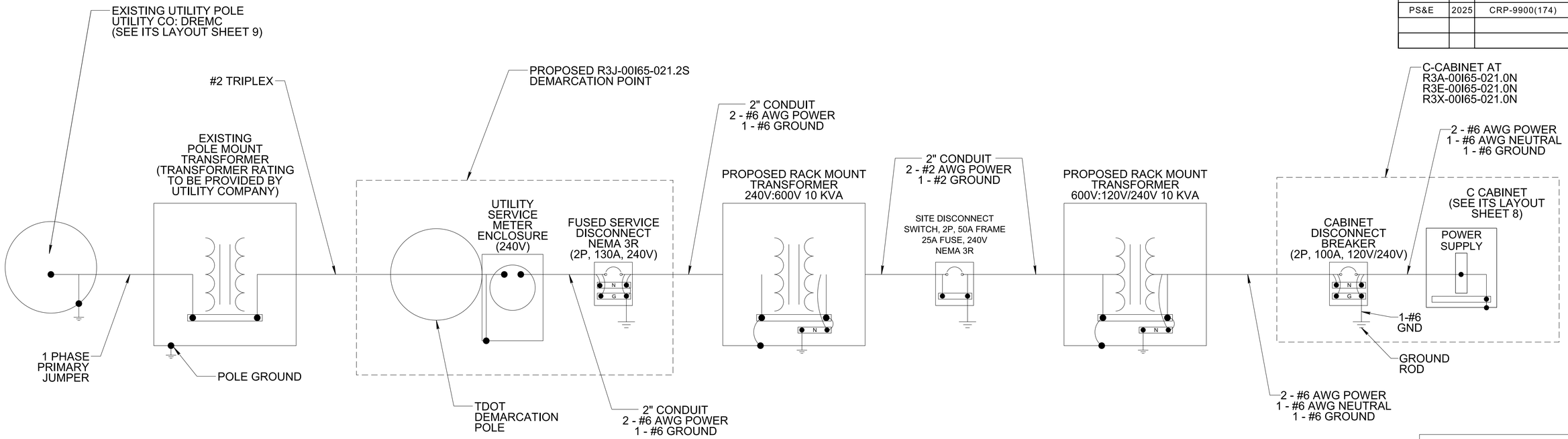
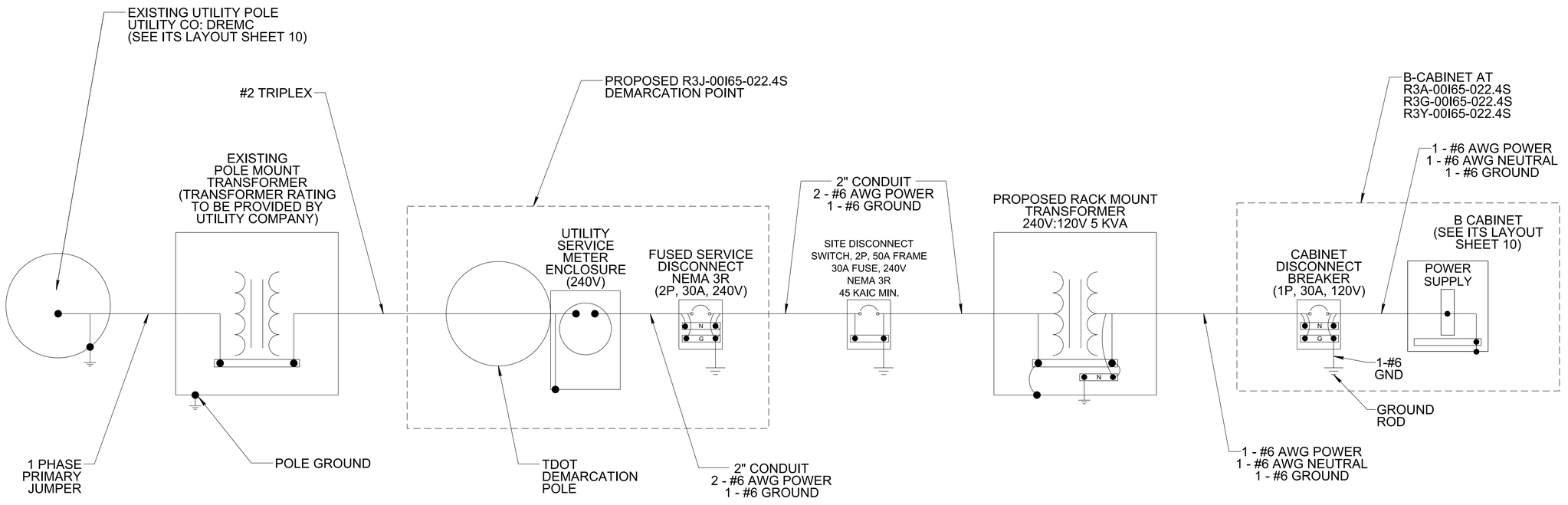
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2H2
PS&E	2025	CRP-9900(174)	2H2



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-00I65-021.0N
PROPOSED R3E-00I65-021.0N
PROPOSED R3X-00I65-021.0N



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-00I65-022.4S
PROPOSED R3G-00I65-022.4S
PROPOSED R3Y-00I65-022.4S

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POWER SERVICE DETAILS

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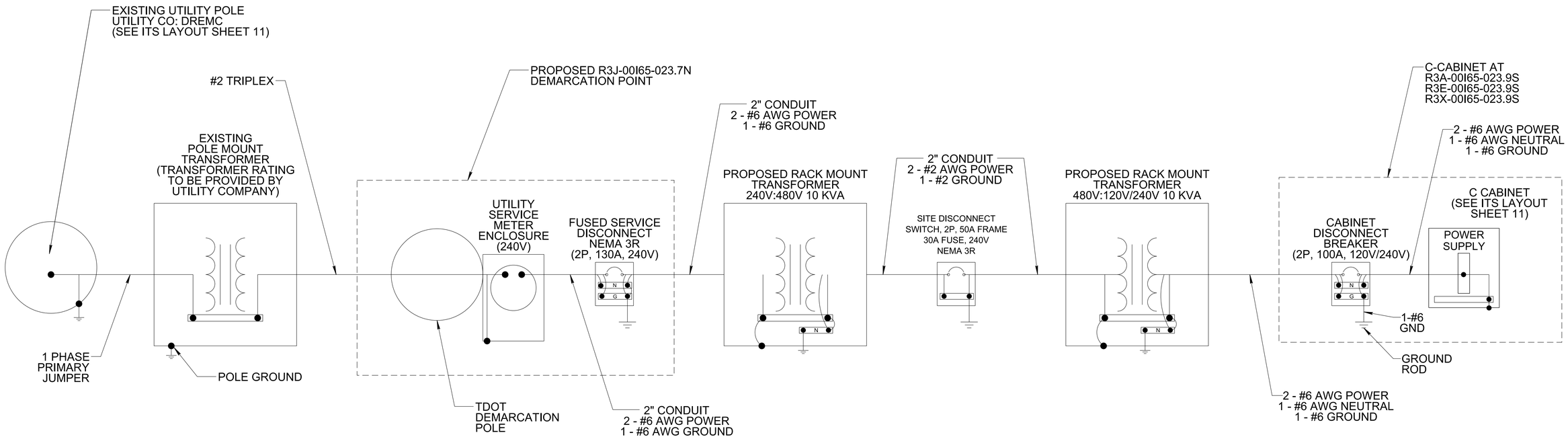
Roane, Mars, Dyer\Sheets\ITS_2H2_ Power Service Details Site 2A.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2H3
PS&E	2025	CRP-9900(174)	2H3



NOTES:

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

SEALED BY

STUART M. SAMBERG
REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
No. 119165
STATE OF TENNESSEE

8/25/2025

SITE 2C
PROPOSED R3A-00I65-023.9N
PROPOSED R3E-00I65-023.9N
PROPOSED R3X-00I65-023.9N

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

POWER SERVICE DETAILS

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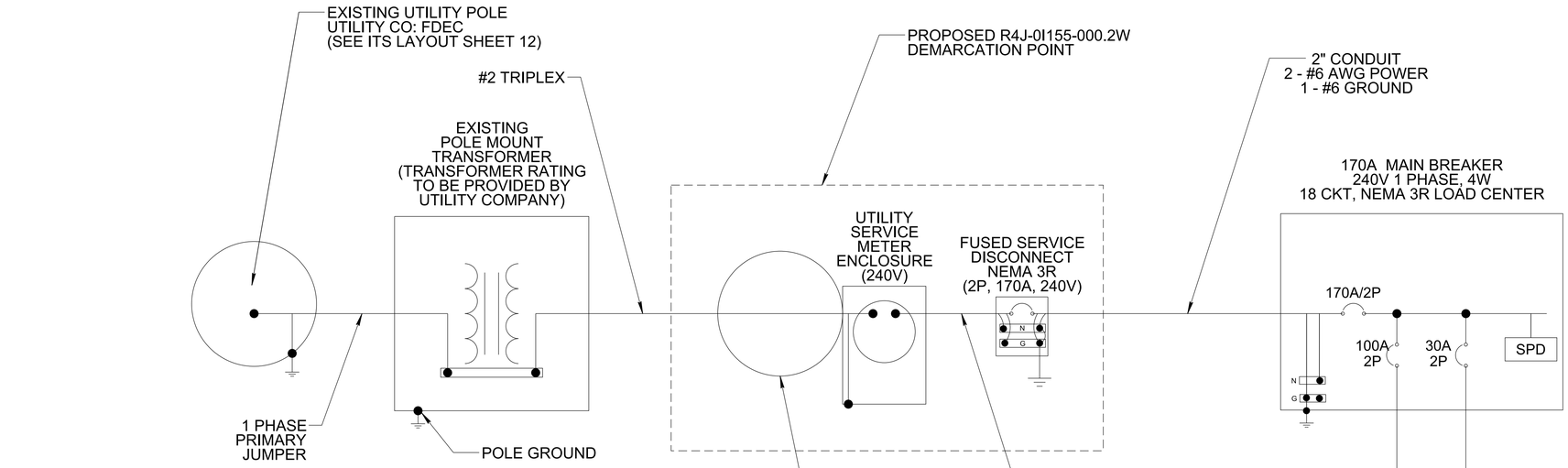
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	2H4
PS&E	2025	CRP-9900(174)	2H4



NOTES:

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

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CROSSVILLE
No. 118165
STATE OF TENNESSEE

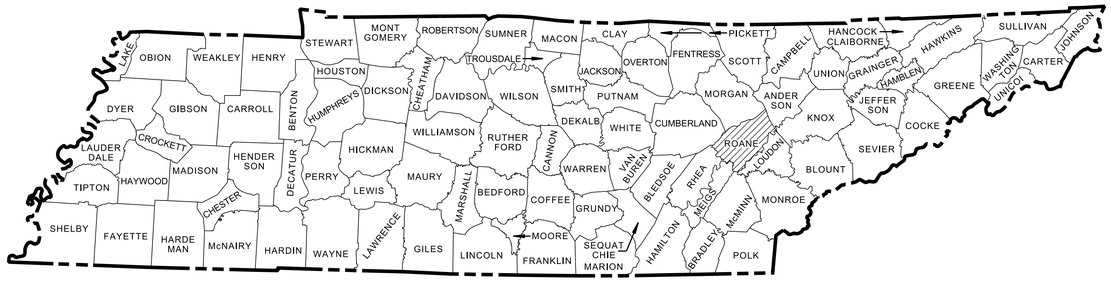
8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

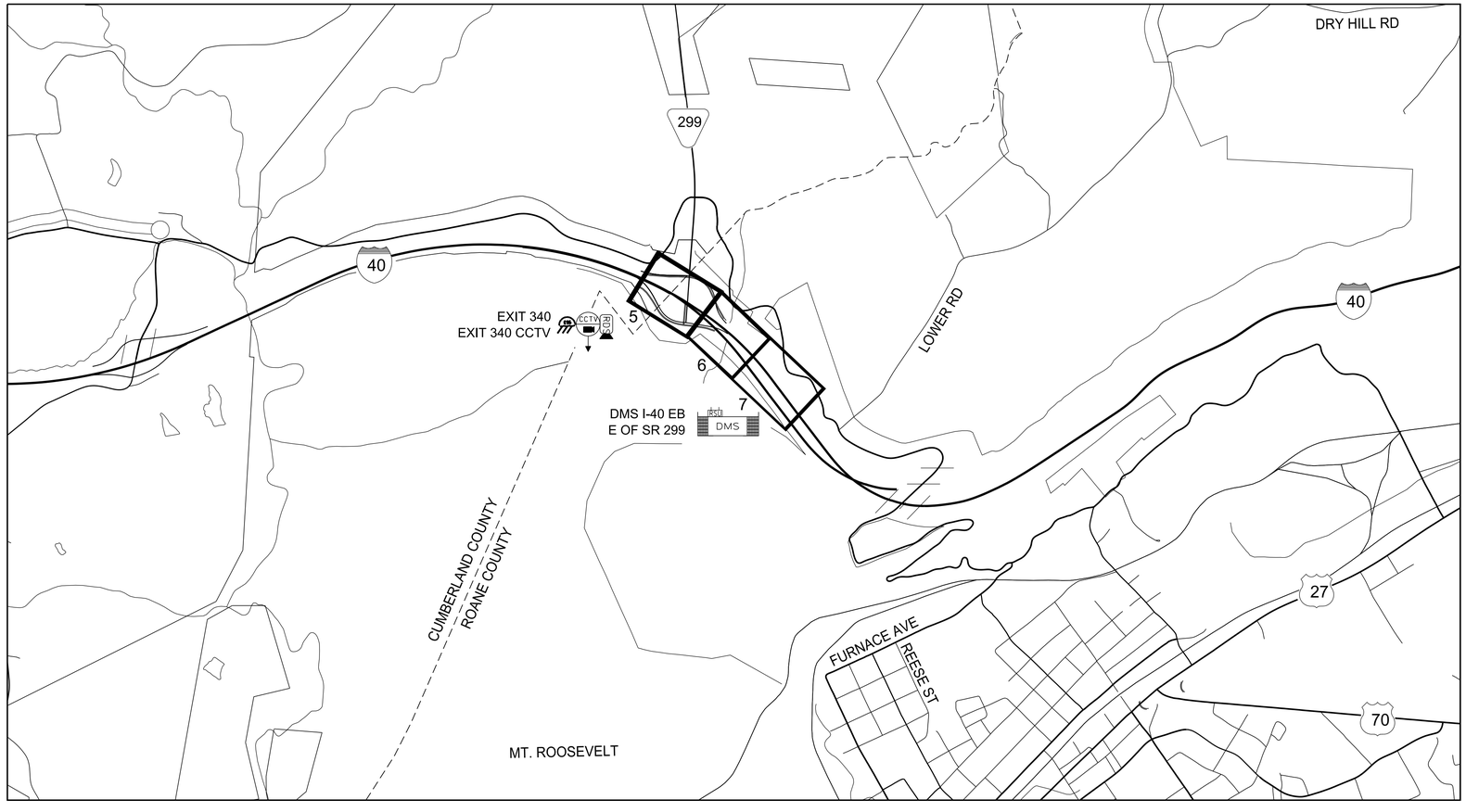
POWER SERVICE DETAILS

SITE 3
PROPOSED R4A-0I155-000.8E
PROPOSED R4G-0I155-000.8E
PROPOSED R4Y-0I155-000.8E
PROPOSED R4E-0I155-001.1E
PROPOSED R4X-0I155-001.1E

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	4A
PS&E	2025	CRP-9900(174)	4A



SITE 1
ROANE COUNTY
I-40



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AGRICULTURE
NUMBER 109165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET KEY AND ITS LAYOUT

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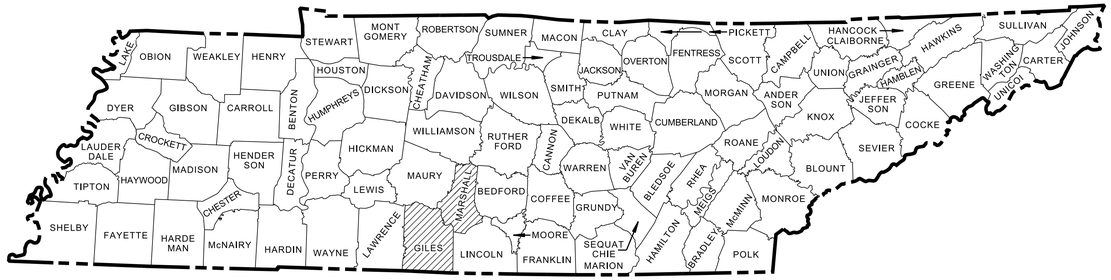
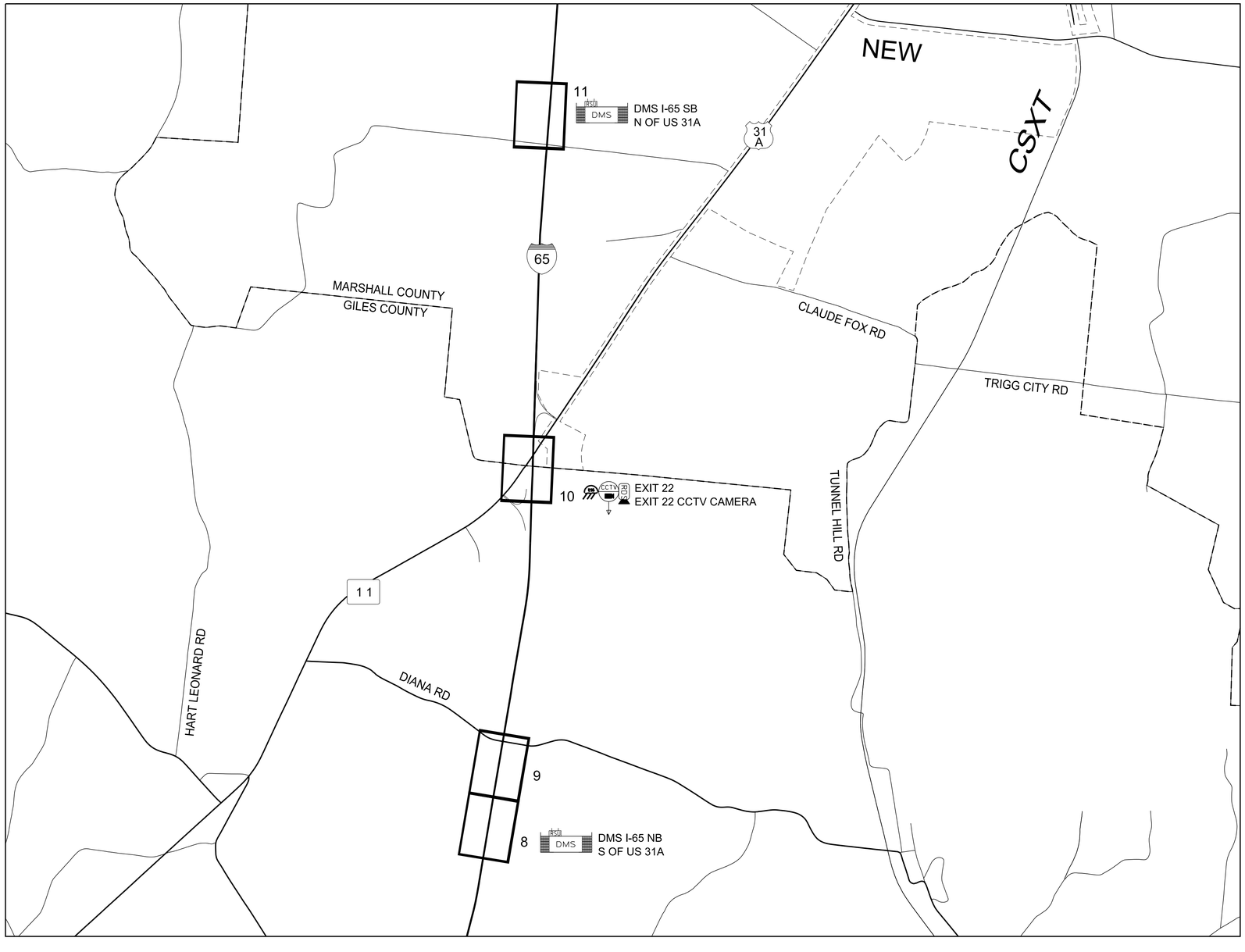
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	4B
PS&E	2025	CRP-9900(174)	4B



SITE 2
GILES COUNTY AND MARSHALL COUNTY
I-65



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COMMERCIAL
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET KEY AND ITS LAYOUT

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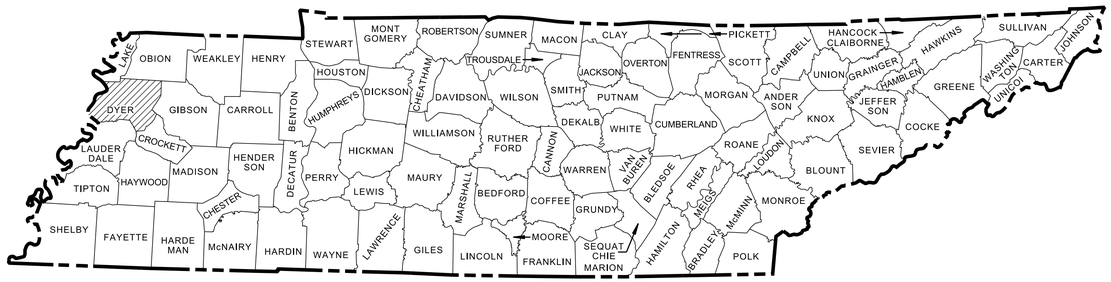
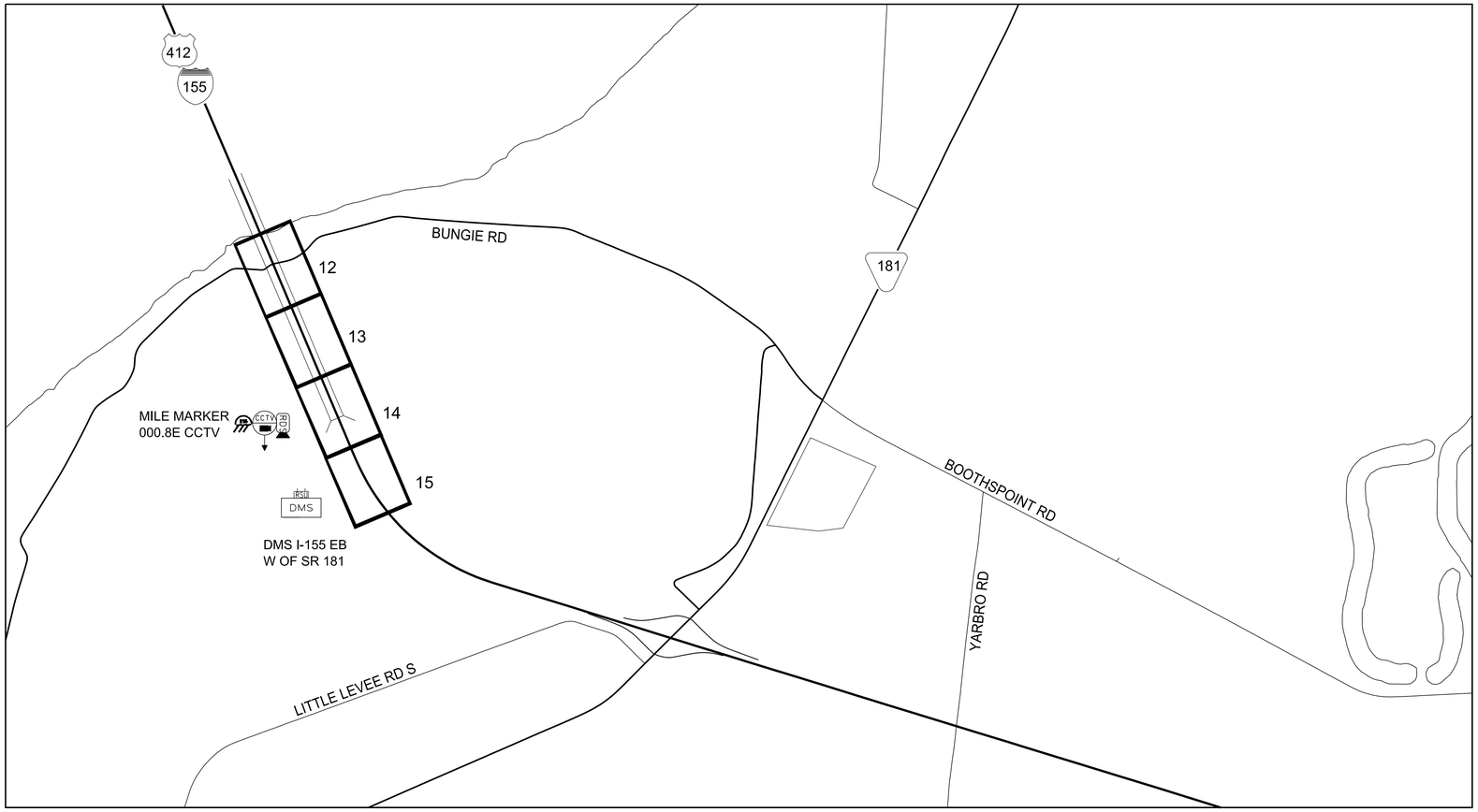
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	4C
PS&E	2025	CRP-9900(174)	4C



SITE 3
DYER COUNTY
I-155



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AGRICULTURE
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET KEY AND ITS LAYOUT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	5
PS&E	2025	CRP-9900(174)	5

SITE 1
ROANE COUNTY
I-40

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STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 1

PIN NO. 131998.02
STA. 765+00 TO STA. 778+00
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	6
PS&E	2025	CRP-9900(174)	6

SITE 1
ROANE COUNTY
I-40

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COMMERCE
No. 110165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 1

PIN NO. 131998.02
STA. 778+00 TO STA. 790+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	7
PS&E	2025	CRP-9900(174)	7

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.

3. STR-1, AS IDENTIFIED IN THE PROVIDED EBR, IS LOCATED TO THE SOUTH OF THE WORKZONE, OFF SHEET, AND LOCATED MORE THEN 50' AWAY FROM ALL PROPOSED DEVICES, CONDUIT, PULL BOX, ETC. LOCATIONS.

4. DMS POWER AND COMMUNICATION CABLES SHALL BE INCIDENTAL TO THE DMS AND INCLUDED IN THE COST OF THE DMS.

SITE 1
ROANE COUNTY
I-40

ENVIRONMENTAL IMPACT INSERT

SCALE: N.T.S.

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 118165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 1

PIN NO. 131998.02
STA. 790+50TO STA. 803+50
SCALE: 1"=50'

MATCH LINE STA.790+50 SEE SHT. NO. 6

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	8
PS&E	2025	CRP-9900(174)	8

MATCH LINE STA.448+50 SEE SHT. NO. 9

SITE 2
GILES COUNTY AND MARSHALL COUNTY
I-65

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REGISTERED ENGINEER
AGRICULTURE
CERTIFICATE
No. 118165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 2

PIN NO. 131998.02
STA. 435+50 TO STA. 448+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	9
PS&E	2025	CRP-9900(174)	9

SITE 2
GILES COUNTY AND MARSHALL COUNTY
I-65

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AGRICULTURE
COMMERCE
No. 130161
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 2

PIN NO. 131998.02
STA. 448+50 TO STA. 461+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	10
PS&E	2025	CRP-9900(174)	10

NOTES:

1. WATER LINE WAS FIELD LOCATED BY LEWISBURG WATER AT APPROXIMATE DEPTH OF 48". CONTRACTOR WILL BORE UNDER WATER LINE. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL CONTACT LEWISBURG WATER AT 931-359-6831 TO COORDINATE THE BORING WORK WITH THE UTILITY COMPANY.

SITE 2
GILES COUNTY AND MARSHALL COUNTY
I-65

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AGRICULTURE
STATE OF TENNESSEE
No. 118165

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 2

PIN NO. 131998.02
STA. 512+00 TO STA. 525+00
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	11
PS&E	2025	CRP-9900(174)	11

NOTES
1. DMS POWER AND COMMUNICATION CABLES SHALL BE INCIDENTAL TO THE DMS AND INCLUDED IN THE COST OF THE DMS.

SITE 2
GILES COUNTY AND MARSHALL COUNTY
I-65

SEALED BY

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COMMERCE
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 2

PIN NO. 131998.02
STA. 586+75 TO STA. 600+75
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	12
PS&E	2025	CRP-9900(174)	12

SITE 3
DYER COUNTY
I-155

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.

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AGRICULTURE
No. 118165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 3

PIN NO. 131998.02
STA. 232+50 TO STA. 246+00
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	13
PS&E	2025	CRP-9900(174)	13

MATCH LINE STA.246+00 SEE SHT. NO. 12

MATCH LINE STA.259+50 SEE SHT. NO. 14

SITE 3
DYER COUNTY
I-155

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.

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AGRICULTURE
CERTIFICATE No. 118165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 3

PIN NO. 131998.02
STA. 246+00 TO STA. 259+50
SCALE: 1"=50'

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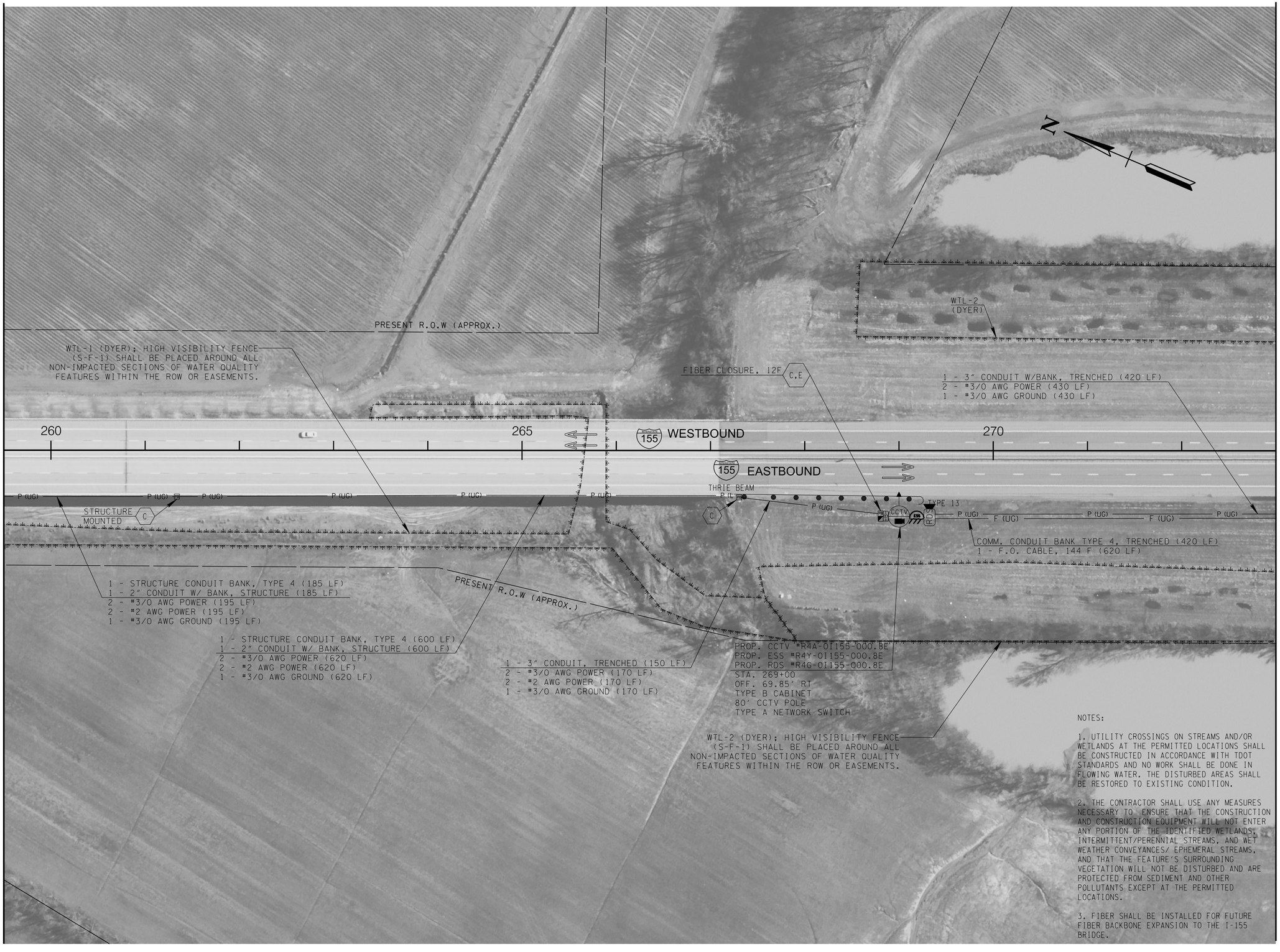
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	14
PS&E	2025	CRP-9900(174)	14

SITE 3
DYER COUNTY
I-155



NOTES:

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3. FIBER SHALL BE INSTALLED FOR FUTURE FIBER BACKBONE EXPANSION TO THE I-155 BRIDGE.

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AGRICULTURE
No. 109165
STATE OF TENNESSEE

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 3

PIN NO. 131998.02
STA. 259+50 TO STA. 273+00
SCALE: 1"=50'

MATCH LINE STA.259+50 SEE SHT. NO. 13
MATCH LINE STA.273+00 SEE SHT. NO. 15

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	CRP-9900(174)	15
PS&E	2025	CRP-9900(174)	15

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.

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3. DMS POWER AND COMMUNICATION CABLES SHALL BE INCIDENTAL TO THE DMS AND INCLUDED IN THE COST OF THE DMS.

4. FIBER SHALL BE INSTALLED FOR FUTURE FIBER BACKBONE EXPANSION TO THE I-155 BRIDGE.

SITE 3
DYER COUNTY
I-155

SEALED BY

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REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
No. 118165

8/25/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
SITE 3

PIN NO. 131998.02
STA. 273+00 TO STA. 286+00
SCALE: 1"=50'

MATCH LINE STA.273+00 SEE SHT. NO. 14

TENN.	YEAR	SHEET NO.
	2025	U1-1A
STATE PROJ. NO.	99IVAR-F3-004	
FED. PROJ. NO.	CRP-9900(174)	

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

ROANE COUNTY

RURAL ITS DEVELOPMENT IN DYER,
GILES, MARSHALL, AND ROANE COUNTIES

PS&E

ITS

STATE HIGHWAY I-40/ F.A.H.S 40

THERE ARE NO UTILITIES IN CONFLICT WITH THIS PROJECT

STANDARD LEGEND

EXISTING UTILITES

POWER P
TELEPHONE T
WATER W
CABLE TV C
SANITARY SEWER SA
UNDERGROUND TELEPHONE T (UG)
GAS G
FORCE MAIN SEWER FMS
UNDERGROUND POWER P (UG)
UNDERGROUND FIBER OPTIC F (UG)

POWER POLE
TELEPHONE POLE
POWER/TELEPHONE POLE
MANHOLE
WATER METER W.M.
WATER VALVE W.V.
LIGHT POLE

PROPOSED UTILITIES & MODIFICATIONS

POWER P
UNDERGROUND POWER P (UG)
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)

POWER POLE P
TELEPHONE POLE T
WATER METER W.M.

EX. WATER LINE (RETIRED IN PLACE) 6" W RIP
EX.GAS LINE (RETIRED IN PLACE) 8" G RIP
EX.SEWER LINE (RETIRED IN PLACE) 8" FMS RIP
EX.TELEPHONE LINE (RETIRED IN PLACE) T(UG) RIP

R REMOVE

RIP RETIRE IN PLACE

UTILITY OWNERS AND CONTACTS:

ELECTRIC:	ROCKWOOD ELECTRIC UTILITY 341 W. ROCKWOOD ST. ROCKWOOD, TN 37854 KENDALL BEAR KBEAR@ROCKWOODELECTRIC.COM O: 865-717-5422		

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

SPECIAL NOTES

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

TENN.	YEAR	SHEET NO.
	2025	U1-1B
STATE PROJ. NO.	99BVAR-F3-004	
FED. PROJ. NO.	CRP-9900(174)	

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

GILES-MARSHALL COUNTY

RURAL ITS DEPLOYMENT GILES/MARSHALL

STATE HIGHWAY N/A / F.A.H.S I-65

THERE ARE NO UTILITIES IN CONFLICT WITH THIS PROJECT

STANDARD LEGEND

EXISTING UTILITES

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		
UNDERGROUND POWER	P (UG)		
UNDERGROUND FIBER OPTIC	F (UG)		

PROPOSED UTILITIES & MODIFICATIONS

POWER	P	POWER POLE	P
UNDERGROUND POWER	P (UG)	TELEPHONE POLE	T
TELEPHONE	T	WATER METER	W.M.
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 (RETIRED IN PLACE)	6" W RIP	R	REMOVE
EX.GAS LINE (RETIRED IN PLACE)	8" G RIP	RIP	RETIRE IN PLACE
EX.SEWER LINE (RETIRED IN PLACE)	8" FMS RIP		
EX.TELEPHONE LINE (RETIRED IN PLACE)	T(UG) RIP		

UTILITY OWNERS AND CONTACTS:

POWER: DUCK RIVER ELECTRIC 1411 MADISON ST. SHELBYVILLE, TN 37160 SCOTT DAHLSTROM SDAHLSTROM@DREMC.COM C: 931-703-0248	PHONE: AT&T 116 SOUTH CANNON AVENUE MURFREESBORO, TN 37129 KENNETH LEE KORNEGAY KK4096@ATT.COM O: 615-848-2082	CABLE: CHARTER 1757 NORTH POINTE ROAD COLUMBIA, TN 38401 CARL CAMPBELL CARL.CAMPBELL@CHARTER.COM C: 931-286-4095
WATER: LEWISBURG WATER & WASTEWATER 100 WATER STREET LEWISBURG, TN 37091 JAKE MARQUARDT JAKE@LEWISBURGWATER.ORG C: 931-993-1694	PHONE: UNITED COMMUNICATIONS 120 TAYLOR STREET CHAPEL HILL, TN 37034 JONATHAN KNIGHT JON.KNIGHT@GOUNITED.NET C: 704-242-4172	PHONE: TDS TELECOM 5265 MURFREESBORO RD. LA VERGNE, TN 37086 SEAN HARKINS SEAN.HARKINS@TDSTELECOM.COM O: 615-793-1092
WATER: FAIRVIEW UTILITY DISTRICT 155 NORTH RHODES STREET PULASKI, TN 38478 JAMIE BYRD FAIRVIEWUTILITY@ENERGIZE.NET C:931-212-0953	WATER: SOUTH GILES UTILITY DISTRICT 8114 ELKTON PIKE PROSPECT, TN 38477 BOBBY PAGE BOBBY@SOUTHGILESUD.COM C: 931-638-9246	

SPECIAL NOTES

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

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	U1-1C
STATE PROJ. NO.	99IVAR-F3-004	
FED. PROJ. NO.	CRP-9900(174)	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DYER COUNTY

RURAL ITS DEVELOPMENT IN DYER,
GILES, MARSHALL, AND ROANE COUNTIES

PS&E

ITS

STATE HIGHWAY I-155/ F.A.H.S 412

Index Of Sheets	
SHEET NAME	SHEET NO.
UTILITIES INDEX, UTILITIES OWNERS, AND UTILITIES SHEETS;	U1-1C

PIN: 131998.02

THERE ARE NO UTILITIES IN CONFLICT WITH THIS PROJECT

STANDARD LEGEND

EXISTING UTILITES

POWER	P	POWER POLE	
TELEPHONE	T	TELEPHONE POLE	
WATER	W	POWER/TELEPHONE POLE	
CABLE TV	C		
SANITARY SEWER	SA	MANHOLE	
UNDERGROUND TELEPHONE	T (UG)	WATER METER	W.M.
GAS	G	WATER VALVE	W.V.
FORCE MAIN SEWER	FMS	LIGHT POLE	
UNDERGROUND POWER	P (UG)		
UNDERGROUND FIBER OPTIC	F (UG)		

PROPOSED UTILITIES & MODIFICATIONS

POWER	P	POWER POLE	●P
UNDERGROUND POWER	P (UG)	TELEPHONE POLE	●T
TELEPHONE	T	WATER METER	■ W.M.
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 (RETIRED IN PLACE)	6" W RIP	(R)	REMOVE
EX.GAS LINE (RETIRED IN PLACE)	8" G RIP	(RIP)	RETIRE IN PLACE
EX.SEWER LINE (RETIRED IN PLACE)	8" FMS RIP		
EX.TELEPHONE LINE (RETIRED IN PLACE)	T(UG) RIP		

UTILITY OWNERS AND CONTACTS:

PHONE: AT&T 315 E. COLLEGE STREET JACKSON, TN 38301 DANIEL POTTS DP7607@ATT.COM C: 901-488-2359	ELECTRIC: DYERSBURG ELECTRIC SYSTEM 211 EAST COURT STREET DYERSBURG, TN 38024 JAKE WEATHERLY JRWEATHERLY@DESPOWER.COM O: 731-287-4600 C: 731-287-4625	GAS: CITY OF DYERSBURG 425 WEST COURT DYERSBURG, TN 38024 MIKE HUNTER MHUNTER@DYERSBURGTN.GOV O: 731-288-2591
FIBER: CHARTER 24 CIRCLE DRIVE MCKENZIE, TN 38201 KEITH CHESSER KEITH.CHESSER@CHARTER.COM O: 704-242-4172 C: 731-621-9552	ELECTRIC: FORKED DEER ELECTRIC CO-OP 1135 N. CHURCH STREET HALLS, TN 38040 JEFF NEWMAN JEFF@FORKEDDEER.COM O: 731-836-7508	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY INDEX
AND
UTILITY OWNERS

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