

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

Index of Sheets
SEE SHEET NO. 1A

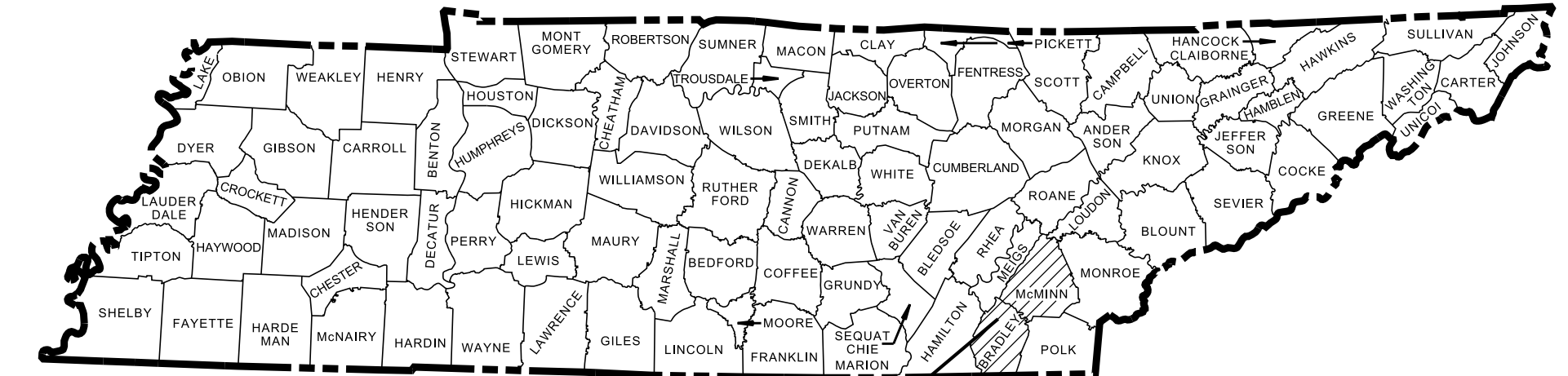
DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION	SIGNIFICANT	
PER FHWA (FORM A)	YES X	NO
PER TDOT (FORM B)	YES X	NO

TENN.	YEAR	SHEET NO.
	2024	1
FED. AID PROJ. NO.	NH-X-XXXX(XXX)	
STATE PROJ. NO.	99113-4946-04	

**BRADLEY AND
MCMINN COUNTIES**

I-75 NEXTGEN FOG AND TRAFFIC
INCIDENT MANAGEMENT

PRELIMINARY PLANS
ITS

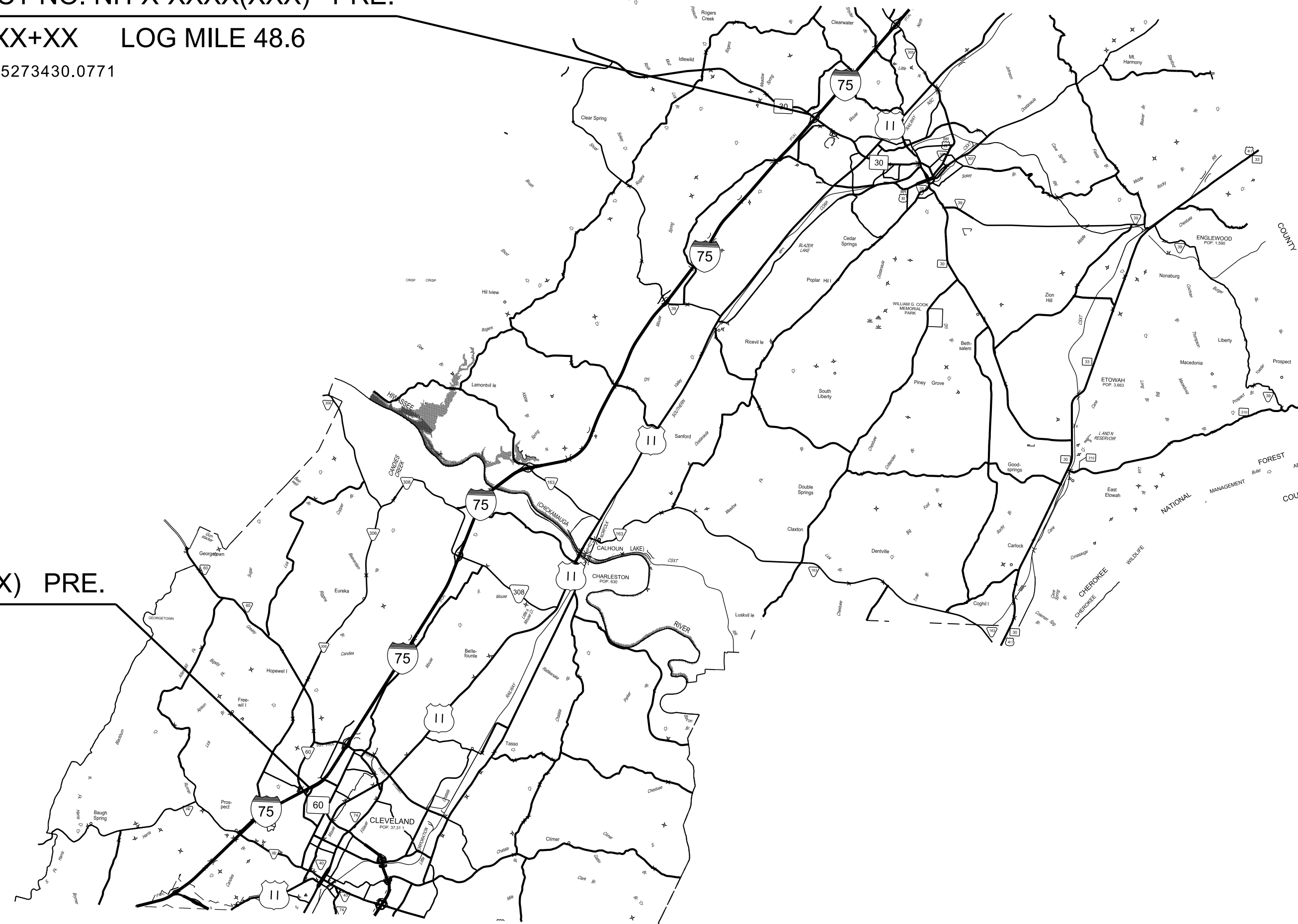


PROJECT LOCATION NO EXCLUSIONS

991040-F1-003
END PROJECT NO. NH-X-XXXX(XXX) PRE.
I-75 STA.XXXX+XX LOG MILE 48.6
N 602701.2727 E 15273430.0771

STATE HIGHWAY NO. I-40

THIS PROJECT DOES NOT
REQUIRE ANY R.O.W.
ACQUISITION OR EASEMENTS



PRELIMINARY
PLANS

99113-4946-04
BEGIN PROJECT NO. NH-X-XXXX(XXX) PRE.
I-75 STA.XXXX+XX LOG MILE 25.2
N XXXXXX.XXXX E XXXXXX.XXXX

SEALED BY

Will Reid
WILL REID, CHIEF ENGINEER

DATE:

APPROVED: *Howard H. Eley*
HOWARD H. ELEY, 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.

BRADLEY COUNTY LENGTH 9.65 MILES
MCMINN COUNTY LENGTH 13.75 MILES
PROJECT LENGTH 23.4 MILES

TDOT C.E. MANAGER 1 OR
TDOT TRANSPORTATION MANAGER 1: CAM MORRIS, PE

DESIGNED BY: RK&K, LLP

DESIGNER: JASON RASHID CHECKED BY: STUART SAMBERG, PE, PTOE

P.E. NO. 99113-4946-04

PIN NO. 129736.02

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

ROADWAY INDEX

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STANDARD ROADWAY AND TRAFFIC OPERATIONS DRAWINGS

STANDARD ROADWAY DRAWINGS

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

DWG.	REV.	DESCRIPTION
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	02-20-20	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	02-20-20	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND COSTRUCTION

10-107.00 SAFETY DESIGN AND GUARDRAILS

DWG.	REV.	DESCRIPTION
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-GR31-1	06-15-21	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	06-15-21	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRA-3	06-15-21	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	06-28-19	IN-LINE GUARDRAIL ANCHOR
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-PL-1	01-28-22	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A		SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-6	06-15-21	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-6A	06-28-19	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN

10-108.00 DESIGN - TRAFFIC CONTROL

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

10-109.00 EROSION PREVENTION AND SEDIMENT CONTROL

DWG.	REV.	DESCRIPTION
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

STANDARD TRAFFIC OPERATIONS DRAWINGS

SIGNS

DWG.	REV.	DESCRIPTION
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-13	10-21-19	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	10-21-19	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-23C	07-02-15	BREAKAWAY POST SIGN SUPPORTS

SIGNALS

DWG.	REV.	DESCRIPTION
T-SG-10	07-11-17	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS

LIGHTING AND UTILITY POLES

DWG.	REV.	DESCRIPTION
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	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

STANDARD STRUCTURES DRAWINGS

NEW STRUCTURES

DWG.	REV.	DESCRIPTION
STD-8-4		SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	1A

PRELIMINARY
PLANS

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
AND STANDARD
DRAWINGS

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.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (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

- (1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 801-01.
- (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.
- (3) ITEM NO. 801-01.02 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.
- (4) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.
- (5) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

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.
- (2) 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.

DRAINAGE

- (1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

MISCELLANEOUS

- (2) 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.

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.

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.

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.

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PRELIMINARY
PLANS

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

ENVIROMENTAL (CONTINUED)

- (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

SEDIMENT CONTROL

- (1) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- (2) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.
- (3) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.
- (4) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- (5) THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT

CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

INSPECTION, MAINTENANCE & REPAIR

- (6) REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEET SERIES (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (7) 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.
- (8) 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.
- (9) 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.
- (10) 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.
- (11) 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.
- (12) 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.
- (13) 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.
- (14) 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.
- (15) 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.
- (16) 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.
- (17) 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.

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PRELIMINARY
PLANS

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

EROSION PREVENTIONS AND SEDIMENT CONTROL (CONTINUED)

(18) 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.

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**PRELIMINARY
PLANS**

SEALED BY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**GENERAL
NOTES**

SCOPE OF WORK

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COMPLETE CONSTRUCTION AND TESTING OF "TDOT I-75 AND US 11 NEXTGEN FOG ZONE AND TRAFFIC INCIDENT MANAGEMENT" INTELLIGENT TRANSPORTATION SYSTEM (ITS) AS SHOWN IN CONTRACT DOCUMENTS.

THE PROJECT WILL REPLACE THE EXISTING FIBER BACKBONE ALONG APPROXIMATELY 23 MILES OF I-75 BETWEEN CLEVELAND AND ATHENS AND COORDINATE THE REPLACEMENT OF AND INSTALLATION OF NEW ITS DEVICES ALONG THE CORRIDOR TO IMPROVE SAFETY FOR MOTORISTS AND FIRST RESPONDERS DURING LANE CLOSURE CRASHES. ADDITIONALLY, THE EXISTING CABINETS AT INTERSECTION ALONG US 11 WILL BE REPLACED WITH NEW ATCS WITH WIRELESS COMMUNICATION SYSTEMS, AND NEW CCTV CAMERAS WILL BE INSTALLED AT THE INTERSECTIONS AS WELL. THE PROJECT INCLUDES BUT IS NOT LIMITED TO FURNISHING AND INSTALLING CCTV POLES, DMS STRUCTURES CABINETS, FOUNDATIONS, GUARDRAIL, CONDUIT, FIBER OPTIC CABLE NETWORKS, ELECTRICAL POWER SERVICE, AND OTHER REQUIRED VENDOR HARDWARE/SOFTWARE NECESSARY TO COMPLETE A FULLY FUNCTIONING SYSTEM.

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.

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 OF FEET OUT OF THE CONDUIT FOR UTILITY CONNECTIVITY.
- (5) THE LABOR AND MATERIAL REQUIRED TO INSTALL THE SERVICE IS THE RESPONSIBILITY OF THE CONTRACTOR.

SPECIAL NOTES

MISCELLANEOUS

- (1) ALL BASELINES SHOWN IN THE PLANS ARE FOR GRAPHICAL INFORMATION PURPOSES ONLY AND ARE NOT STAKE IN THE FIELD.
- (2) LOCATIONS OF UTILITES SHOWN ON PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN FIELD BY CONTACTING INVOLVED UTILITY COMPANIES.
- (3) THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE. ADJUSTMENTS MAY BECOME NECESSARY. VARIATIONS FROM PROPOSED LOCATIONS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION OR CONSTRUCTION.
- (4) THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH OTHER CONTRACTORS IN THE WORK AREA. CONFLICTS WILL BE HANDLED AT THE DISCRETION OF THE ENGINEER.
- (5) THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL EQUIPMENT PLACED AS PART OF THE CONTRACT PRIOR TO CONDITIONAL ACCEPTANCE.
- (6) ALL REMOVED EQUIPMENT OR MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR. THE COST OF DISPOSAL SHALL BE INCLUDED IN THE COST OF THE OTHER ITEMS.
- (7) ALL ITS WORK MUST BE PERFORMED BY A QUALIFIED ITS CONTRACTOR. SEE SP SECTION 1.1.5 FOR ITS CONTRACTOR AND SUBCONTRACTOR SPECIFICATIONS.
- (8) ALL DEVICE LOCATIONS REPRESENT CENTER LOCATION FOR MOUNTING POLE UNLESS INDICATED OTHERWISE.
- (9) CONTRACTOR SHALL NOT BE ALLOWED 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 BE PROTECTED BY BARRIER.

STREAMS, WETLANDS & BUFFER ZONES

- (1) THE STREAM CROSSINGS MUST BE AS CLOSE TO 90 DEGREES AND NO LESS THAN 45 DEGREES FROM THE CENTERLINE OF THE STREAM.
- (2) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION.
- (3) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES.
- (4) BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND MUST NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

UTILITY RELOCATION

- (1) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A TEMPORARY DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED

- (2) SEDIMENT TUBES SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.
- (3) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS 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 OFF-SITE 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 OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- (4) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- (5) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

CONDUIT/TRENCHING

- (1) WHEN/IF HAND DIGGING (OR OTHER CAREFUL TRENCHING METHOD) OF A NEW TRENCH IS REQUIRED DUE TO CONSTRAINTS IN THE FIELD, SUCH AS CROSSING UNDER PAVED DRAINAGE FLUMES OR AVOIDING EXISTING UTILITIES, SUCH EFFORTS SHALL BE CONDUCTED BY THE CONTRACTOR AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR HAND DIGGING OR REPAIR OF PAVEMENT DAMAGED BY THE CONTRACTOR.
- (2) CONDUITS SHALL BE INSTALLED A MINIMUM OF FOUR (4) FEET BEHIND EXISTING AND PROPOSED GUARDRAIL POSTS. WHEN NO GUARDRAIL IS INSTALLED, CONDUITS SHALL BE INSTALLED A MINIMUM OF EIGHT (8) FEET CLEAR OF THE EDGE OF THE PAVED SHOULDER. HOWEVER, THERE MAY BE AREAS, AS IDENTIFIED IN THE ITS LAYOUT SHEETS VIA CONSTRUCTION NOTES, THAT WILL REQUIRED THESE OFFSETS TO BE VIOLATED. THESE INSTALLATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE CONSTRUCTION.
- (3) CONDUITS SHALL BE INSTALLED ONE (1) FOOT INFRONT OF CONCRETE BARRIERS, SOUND WALLS, OR RETAINING WALLS UNDER THE SOULDER WHERE THE SHOULDER PAVEMENT IS AGAINST THE BARRIER WALLS.
- (4) CONDUCTORS IN PULL BOXES AND EQUIPMENT ENCLOSURES SHALL BE NEARLY ARRANGED AND LACED WITH APPROVED CABLE TIES. IN ACCORDANCE WITH INDUSTRY STANDARDS AND AS NOTED ON THE PLANS.
- (5) THE CONTRACTOR SHALL COIL ADDITIONAL CABLE IN THE BOTTOMS OF THE CABINETS AND WITHIN PULL BOXES AS SPECIFIED ON THE DETAIL SHEETS.
- (6) CONDUIT AND PULL BOX LOCATIONS SHOWN ON THESE PLANS ARE DIAGRAMMATIC. ACTUAL ROUTING OR CONDUIT RUNS SHALL CONFORM TO FIELD CONDITIONS. HOWEVER, GUIDANCE HAS BEEN PROVIDED VIA CONSTRUCTION NOTES ON THE ITS LAYOUT SHEETS. THE CONTRACTOR SHALL MARK CONDUIT ROUTES FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
- (7) THE CONTRACTOR SHALL INSTALL A DETECTOR METALIZED "BURIED CABLE" WARINGIN TAPE CONTINUOUSLY RUN ALONG THE TRENCH TWELVE (12) INCHES ABOVE THE CONDUIT. THE COST OF THE TAPE IS TO BE INCLUDED IN OTHER CONDUIT-RELATED ITEM NUMBERS AND WILL NOT BE PAID SEPERATELY.
- (8) MULTIPLE RUNS OF CONDUIT/INNERDUCT SHALL BE PLACED IN THE SAME TRENCH AS SHOWN ON THE DETAIL SHEETS.
- (9) CONDUITS PROVIDING ELECTRICAL SERVICE CONDUCTORS SHALL CONFORM TO THE REQUIREMENTS OF THE LATESET EDITIONS OF THE "NATIONAL ELECTRIC CODE", THE "NATIONAL ELECTRIC SAFETY CODE", LOCAL BUILDING CODES, AND TO THE REQUIREMENTS OF TDOT AND ALL UTILITIES INVOLVED.

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**PRELIMINARY
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**ITS SCOPE OF
WORK AND
SPECIAL NOTES**

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SPECIAL NOTES (CONTINUED)

- (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 2 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 CONTRACTOR'S EXPENSE. THIS INCLUDES BUT IS NOT LIMITED TO FIBER OPTIC CABLE, CABINET EQUIPMENT, AND EDGE DEVICES

GRADING

- (1) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.
- (2) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION21 BUILDING IN CHATTANOOGA, TN.
- (3) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

ENVIRONMENTAL

- (1) STAFF FROM TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.
- (2) FOR HORIZONTAL DIRECTIONAL DRILLING, PLEASE KEEP THE ENTRY AND EXIT LOCATIONS AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND MARGINS. PLEASE ALLOW AT LEAST A 50-FOOT BUFFER FROM ANY ENVIRONMENTAL FEATURE.
- (3) ANY TEMPORARY IMPACT TO ENVIRONMENTAL FEATURES, EITHER BY TEMPORARY MATS OR EQUIPMENT STAGING OR ANY NON-PERMITTED CROSSING, IS PROHIBITED.

ECOLOGY

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2BD

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SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
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INTELLIGENT TRANSPORTATION SYSTEM (I.T.S.) LEGEND

SYMBOL	ITEM
	EXISTING CABINET
	PROPOSED CABINET, TYPE A
	PROPOSED CABINET, TYPE B
	PROPOSED CABINET, TYPE C
	PROPOSED TRANSFORMER
	PROPOSED HUB BUILDING
	EXISTING FIBER LINE CONDUIT
	EXISTING ELECTRICAL CONDUIT
	EXISTING COMMUNICATION CONDUIT
	PROPOSED FIBER LINE CONDUIT
	PROPOSED ELECTRICAL CONDUIT
	EXISTING ELECTRICAL DEMARCATION POINT
	PROPOSED ELECTRICAL DEMARCATION POINT
	EXISTING DYNAMIC MESSAGE SIGN (D.M.S.)
	PROPOSED DYNAMIC MESSAGE SIGN (D.M.S.)
	EXISTING PULL BOX
	PROPOSED PULL BOX, TYPE C
	PROPOSED PULL BOX, TYPE D
	PROPOSED PULL BOX, TYPE E
	EXISTING RADAR DETECTION SYSTEM (R.D.S.)
	PROPOSED RADAR DETECTION SYSTEM (R.D.S.)
	EXISTING CCTV
	PROPOSED CCTV
	EXISTING ENVIRONMENTAL SENSOR STATION (ESS)
	EXISTING CHANGABLE SPEED LIMIT SIGN (CSLS)
	EXISTING TRAFFIC SIGNAL CABINET
	EXISTING TRAFFIC SIGNAL
	EXISTING SIGNAL POLE

I.T.S. LEGEND NOTE

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

DEVICE TYPE LEGEND

A	CCTV
B*	CCTV
F	DMS
G	RDS
H	CSLS
Y	ESS

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

ABBREVIATIONS

LIST OF ABBREVIATIONS

AC	ACRE
AQ.	AQUA
ASSY(S)	ASSEMBLY(IIES)
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
DWG.	DRAWING
ELECT.	ELECTRICAL
E.O.P.	END OF PROJECT
E.O.T.L.	EDGE OF TRAVEL LANE
EX	EXISTING
EXIST.	EXISTING
F*	FIBER(S)
F.C.C.	FEDERAL COMMUNICATIONS COMMISSION
F.O.	FIBER OPTIC
F (UG)	UNDERGROUND FIBER OPTIC CABLE
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.E.P.A	NATIONAL ENVIRONMENTAL PROTECTION ACT
N.T.S.	NOT TO SCALE
MAX	MAXIMUM
MIN	MINIMUM
OR.	ORANGE
P.	POWER
P.B.*	PULL BOX
P.T.Z.	PAN, TILT AND ZOOM
PVC	POLYVINYL CHLORIDE CONDUIT
RCV.	RECEIVE
RD.*	RED, ROAD
R.D.S.	RADAR DETECTION SYSTEM
R.G.S.	RIGID GALVANIZED STEEL
REFL.	REFLECTIVE
SCH.*	SCHEDULE
SL.*	SLATE
S.M.	SINGLE MODE
S.P.	SPECIAL PROVISIONS
T.M.C.	TRANSPORTATION MANAGEMENT CENTER
TTS	TRAVEL TIME SIGN
TDOT	TENNESSEE DEPARTMENT OF TRANSPORTATION
U.L.*	UNITED LABORATORIES
V*	VOLTS

LIST OF ABBREVIATIONS (CONTINUED)

V.D.S.	VIDEO DETECTION SYSTEM
VI.	VIOLET
W*	WATTS
WH.	WHITE
YL.	YELLOW

ABBREVIATIONS NOTES

- REFER TO STANDARD DRAWING RD-A-1 FOR STANDARD ABBREVIATIONS.
- 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

- 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.
- CABLE/CONDUIT LENGTHS ARE APPROXIMATE ONLY. PAYMENT BASED ON ACTUAL LENGTHS OF CABLE/CONDUIT INSTALLED.

**PRELIMINARY
PLANS**

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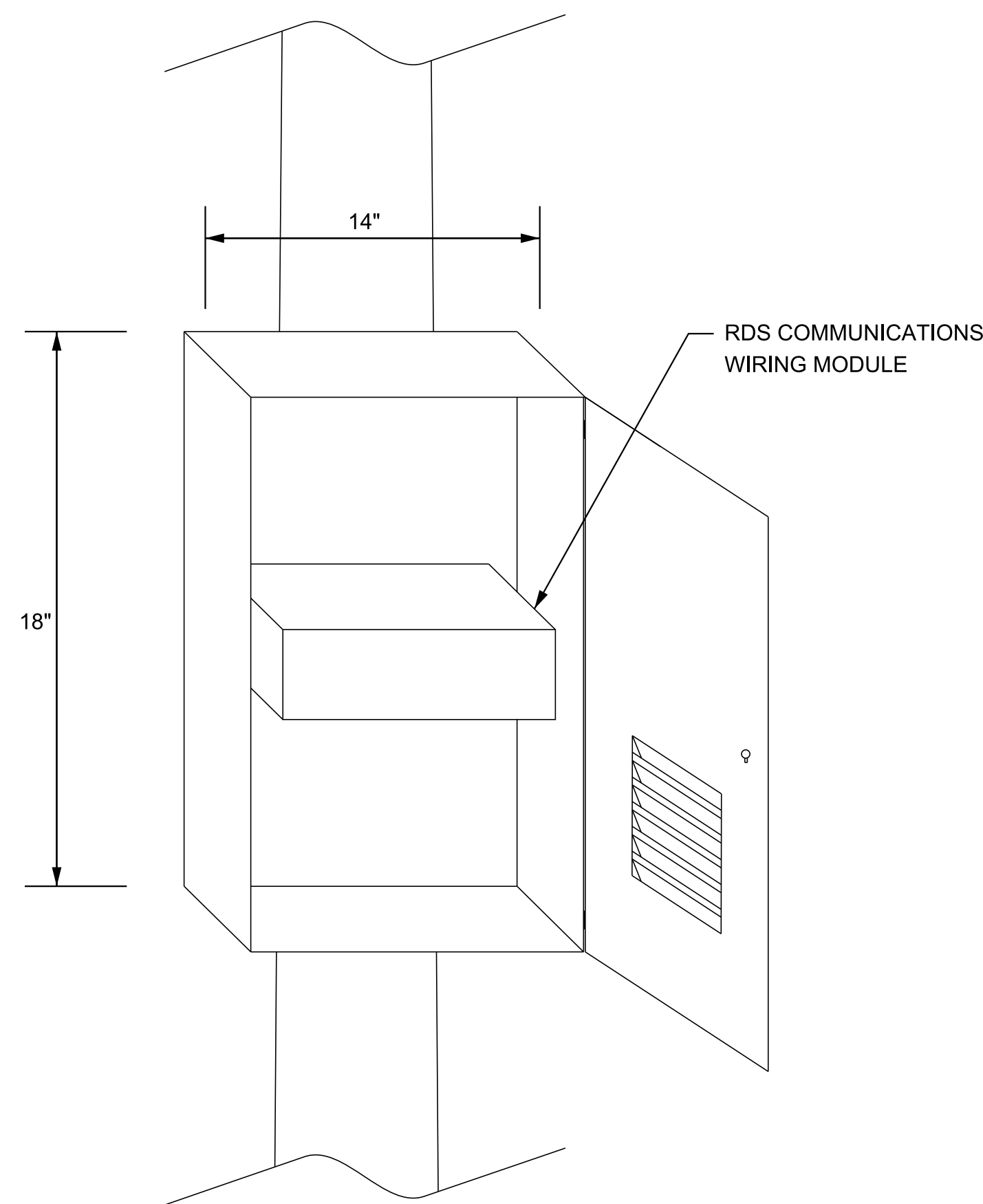
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**LEGEND AND
ABBREVIATIONS**

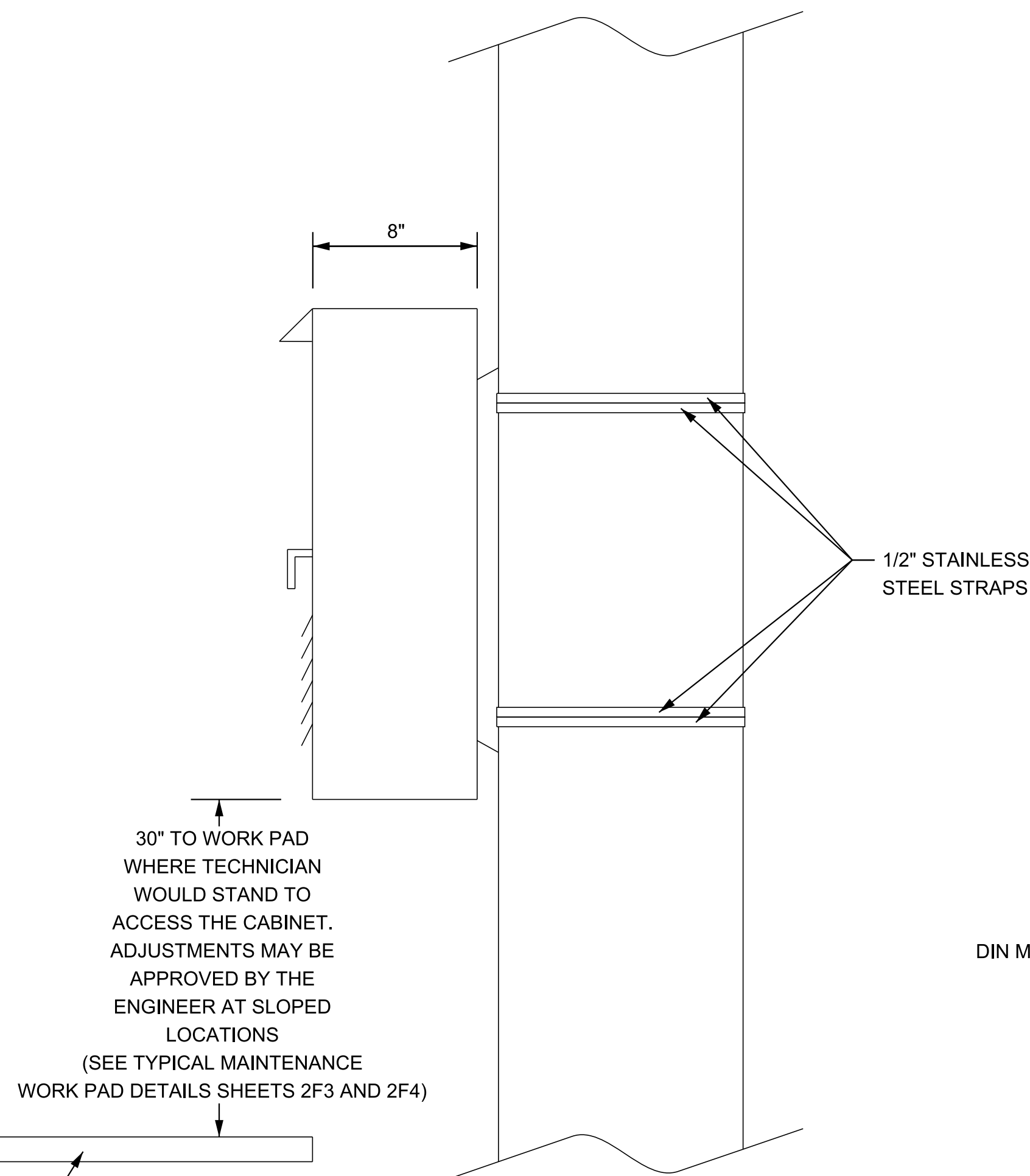
DEVICE NAMING

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

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PRELIM.	2024	99113-4946-04	2F



FRONT VIEW

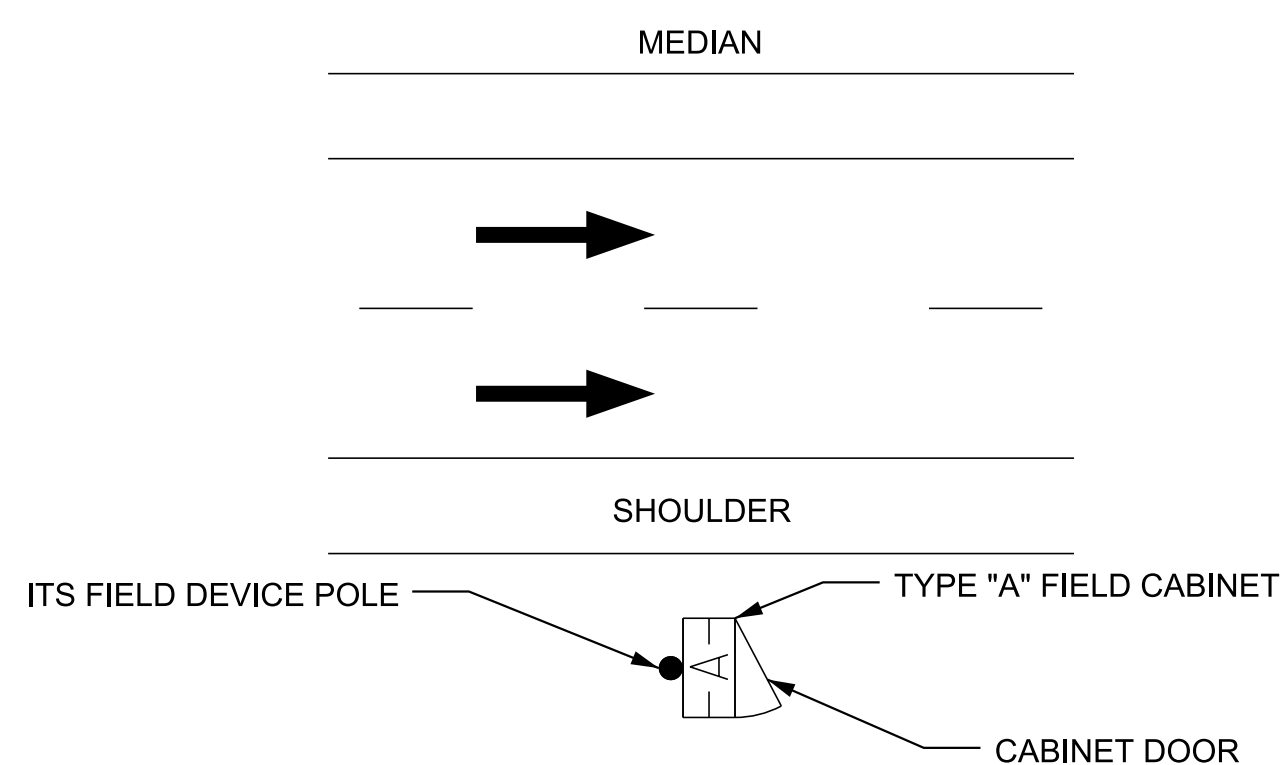


SIDE VIEW ATTACHED TO POLE

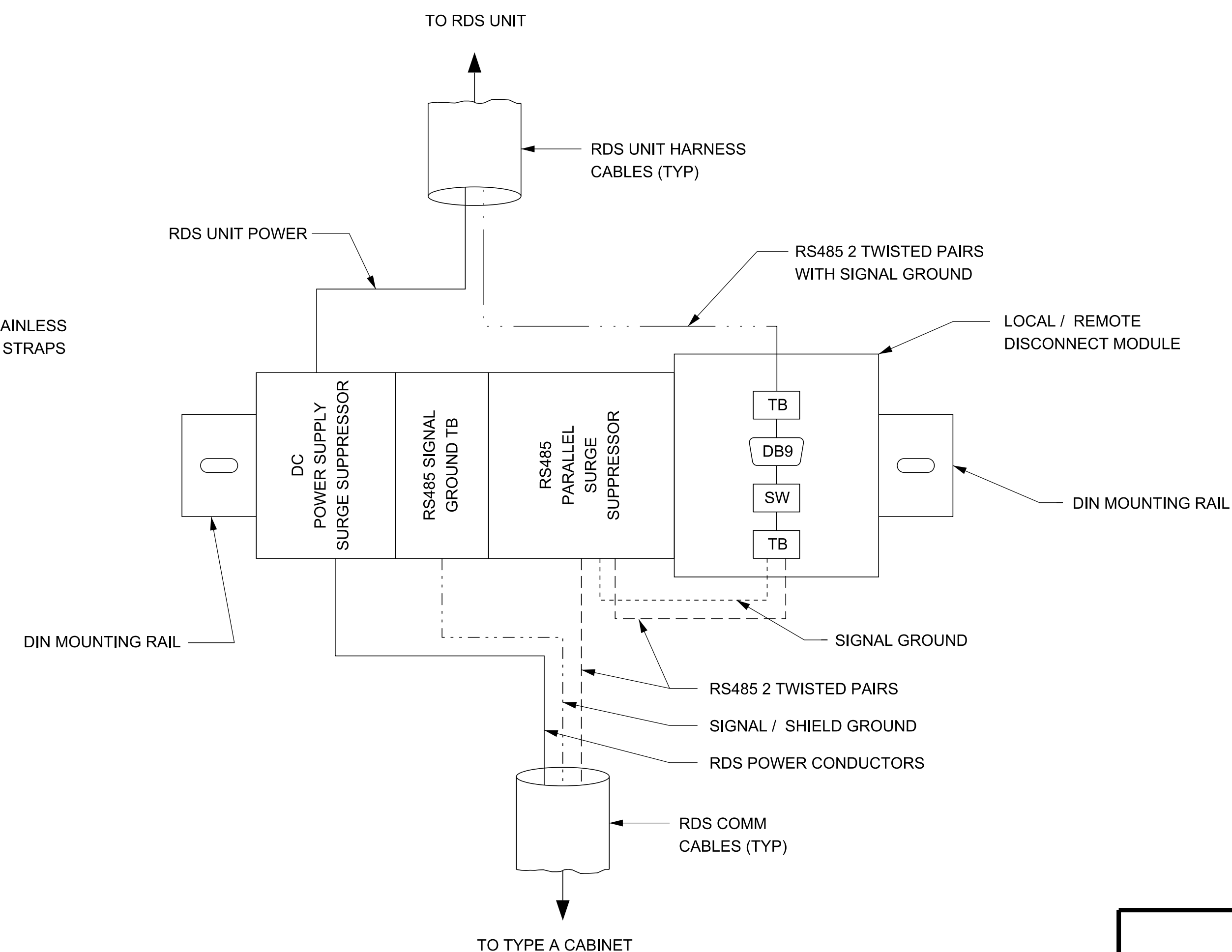
30" TO WORK PAD WHERE TECHNICIAN WOULD STAND TO ACCESS THE CABINET. ADJUSTMENTS MAY BE APPROVED BY THE ENGINEER AT SLOPED LOCATIONS (SEE TYPICAL MAINTENANCE WORK PAD DETAILS SHEETS 2F3 AND 2F4)



TYPE "A" FIELD CABINET
N.T.S.



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



RDS COMM WIRING MODULE
N.T.S.

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

PRELIMINARY
PLANS

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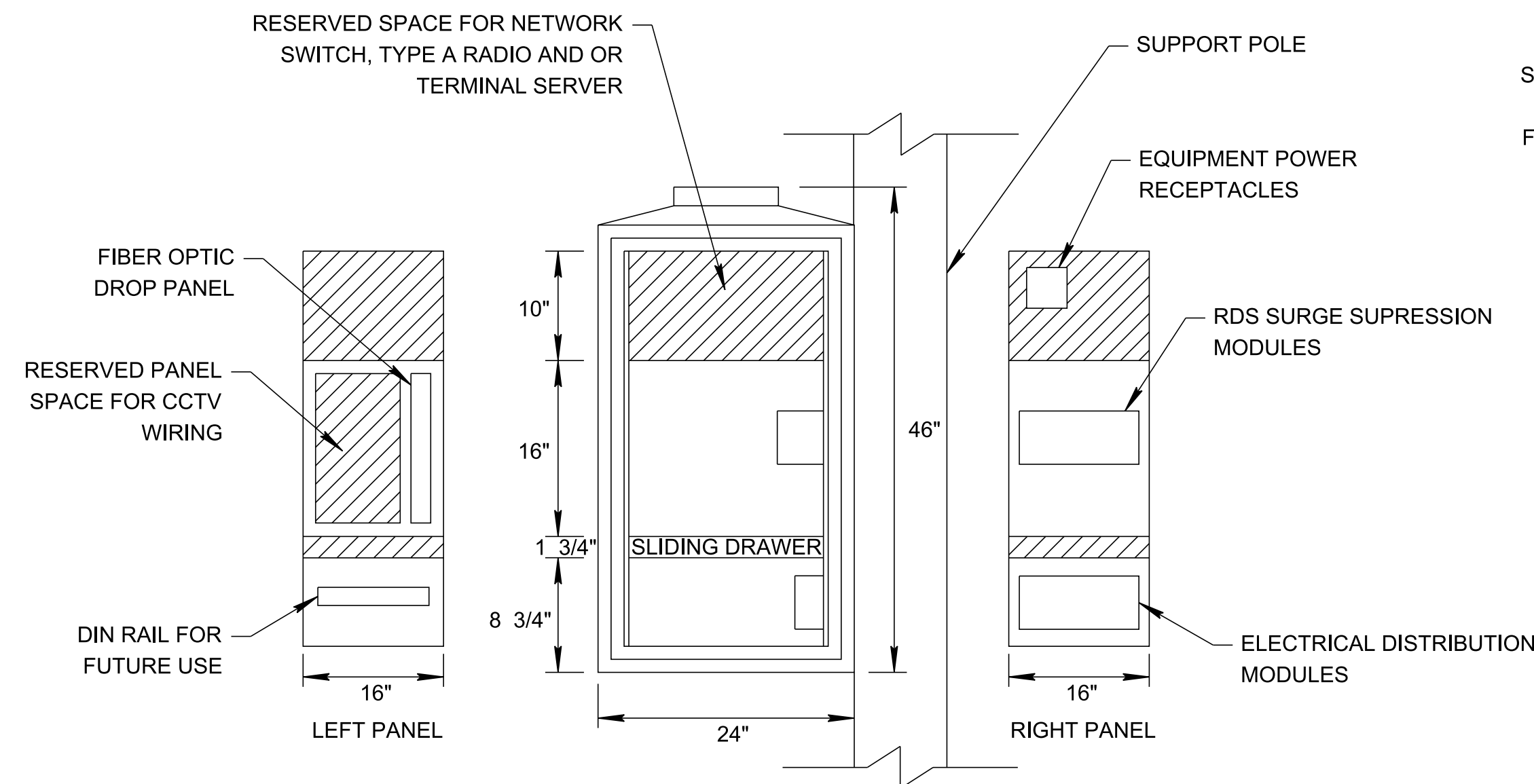
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL TYPE A
FIELD CABINET
DETAILS

NOTES:

- FIELD CABINETS ARE ATTACHED TO A NUMBER OF DIFFERENT DEVICES (PROPOSED STRAIN POLES, PROPOSED UTILITY POLES, PROPOSED SPAN SIGN SUPPORTS, EXISTING LIGHT POLES, EXISTING SPAN OR CANTILEVER SIGN SUPPORTS). REFER TO THE ITS LAYOUT SHEETS FOR INDIVIDUAL SITE REQUIREMENTS.
- ATTACHMENTS TO BREAKAWAY POLES SHALL PREVENT CABINET SEPARATION IN THE EVENT OF VEHICLE IMPACT.
- CABINETS SHALL BE LABELED WITH "TDOT ITS" AND DEVICE TYPE AND NUMBER. CABINET DIMENSIONS ARE NOMINAL MINIMUMS. SEE SPECIAL PROVISIONS FOR MORE CABINET DETAILS.
- CONTRACTOR SHALL SUBMIT ONE (1) SET OF PDF SHOP DRAWINGS FOR EACH CABINET TYPE TO THE ENGINEER FOR APPROVAL.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F1

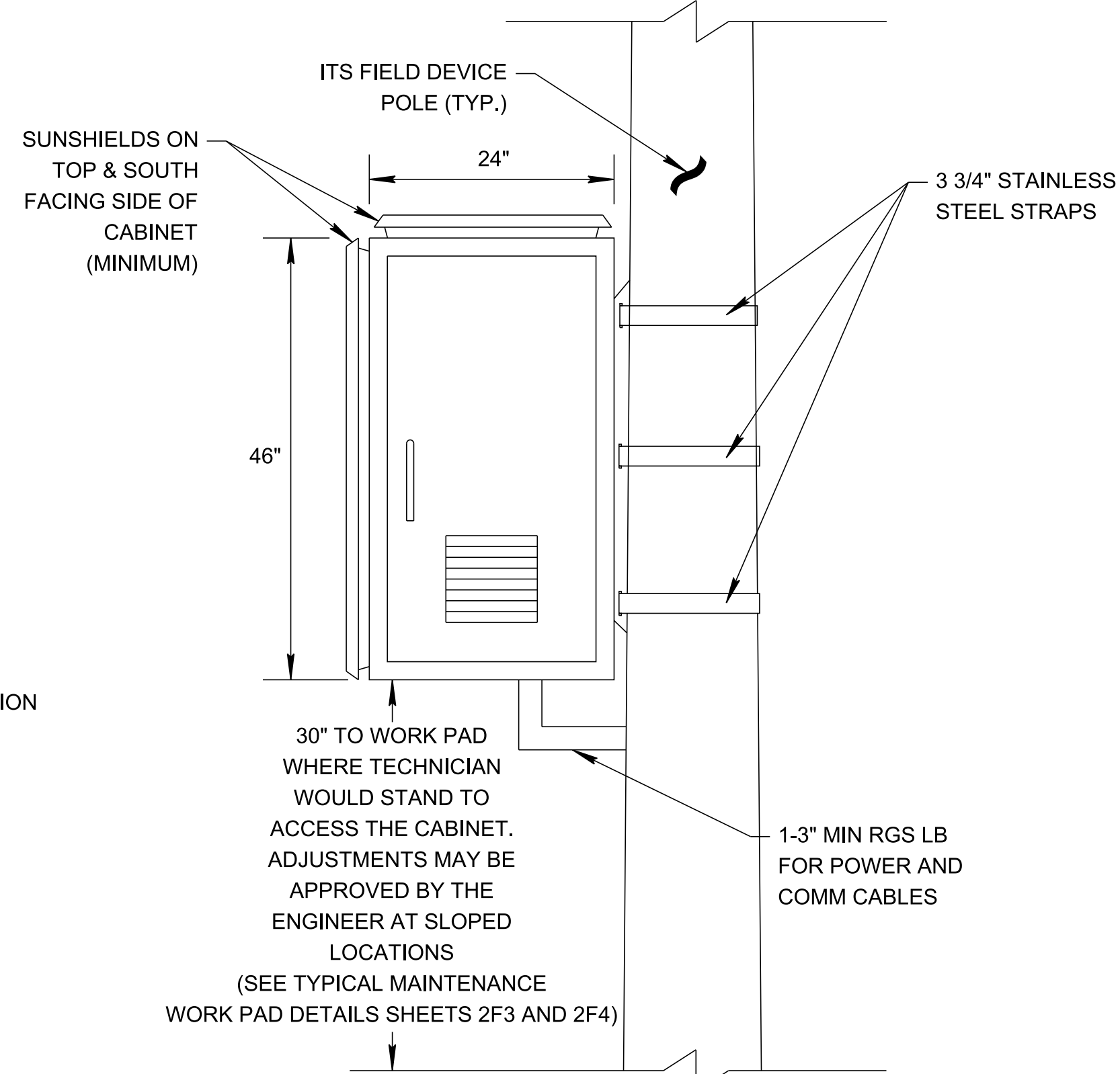


NOTES:

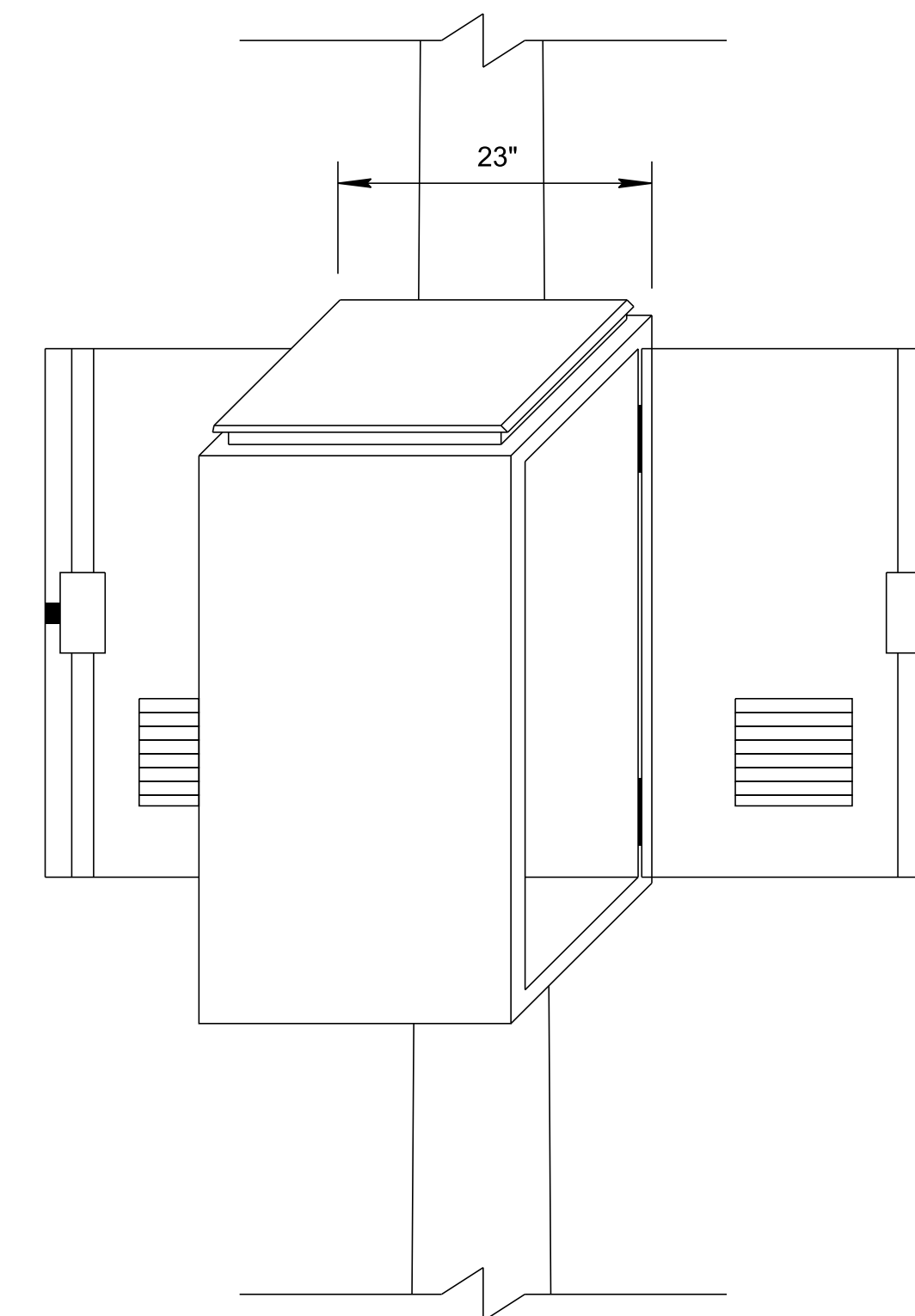
1. ALL DIMENSIONS AND SCALE ARE APPROXIMATE.

TYPE "B" FIELD CABINET LAYOUT

N.T.S.



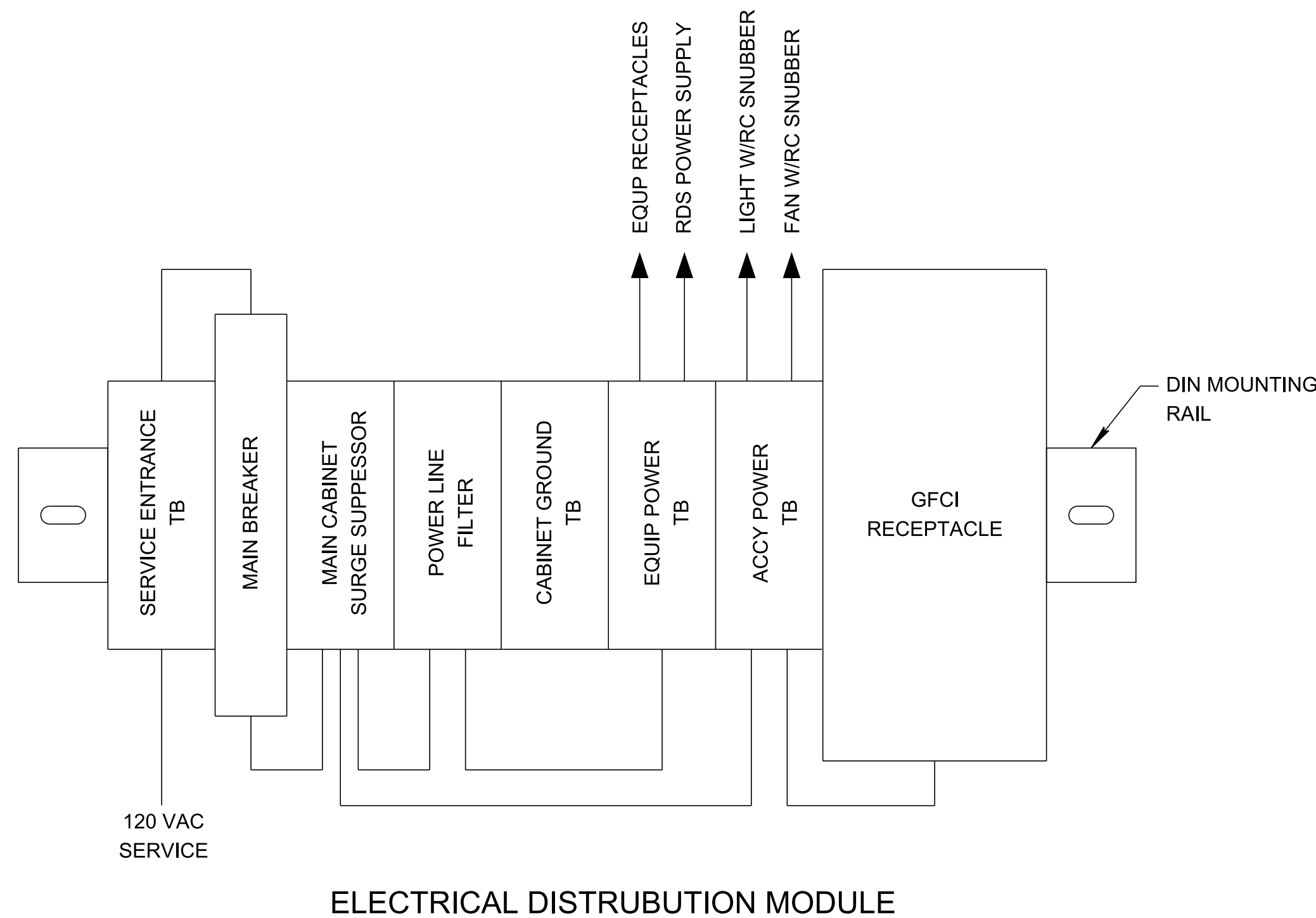
SIDE VIEW



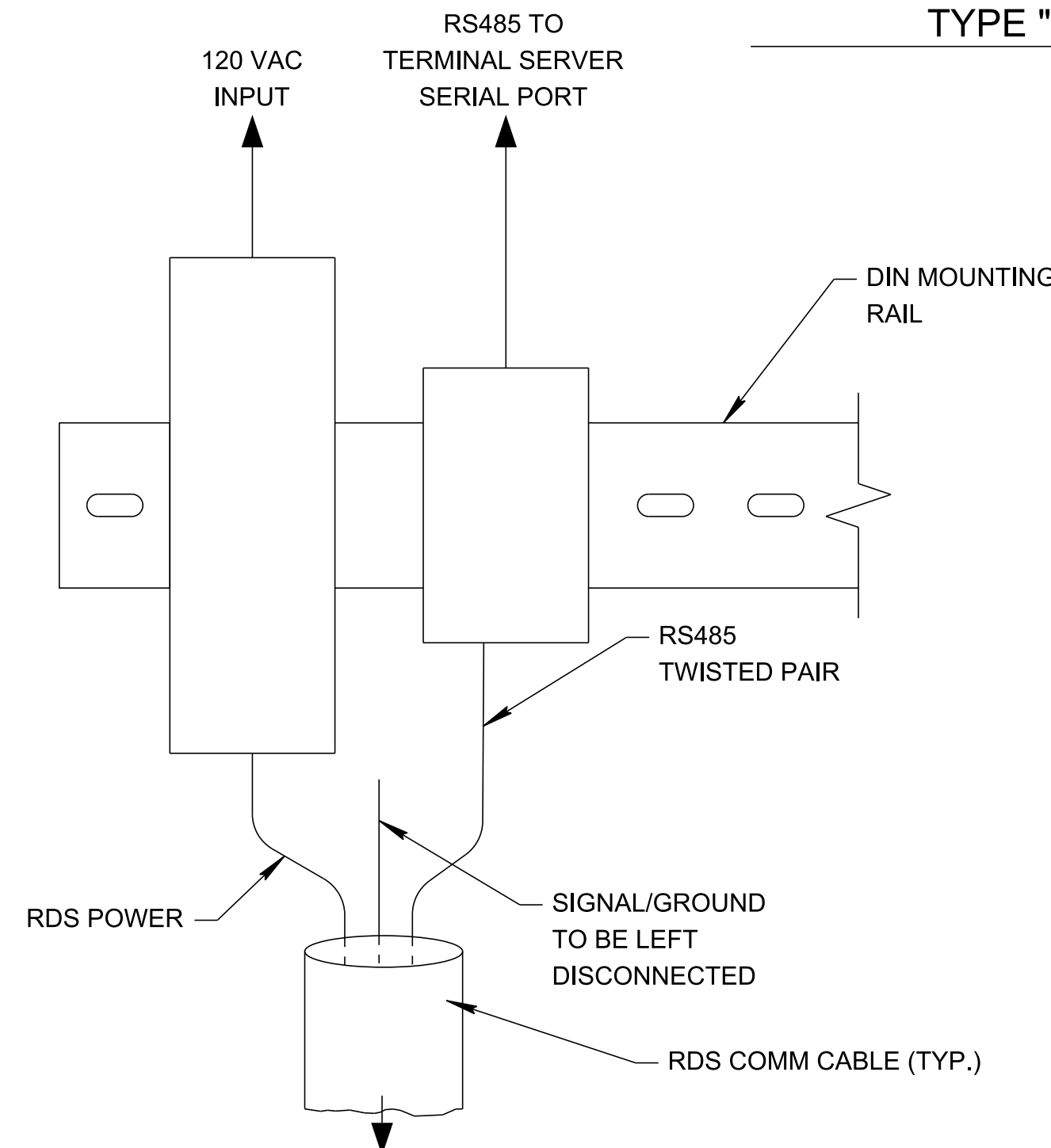
FRONT VIEW

TYPE "B" FIELD CABINET (46" x 24" x 23")

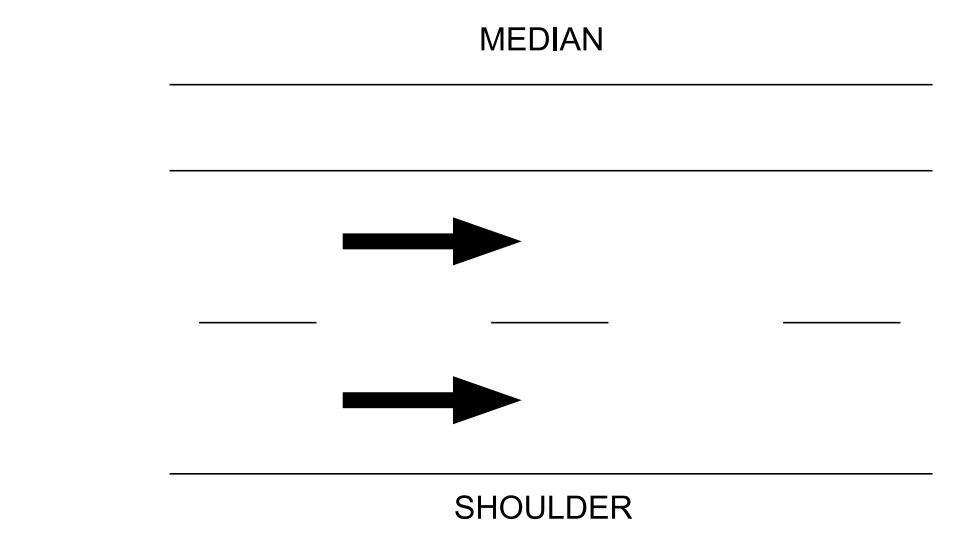
N.T.S.



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.

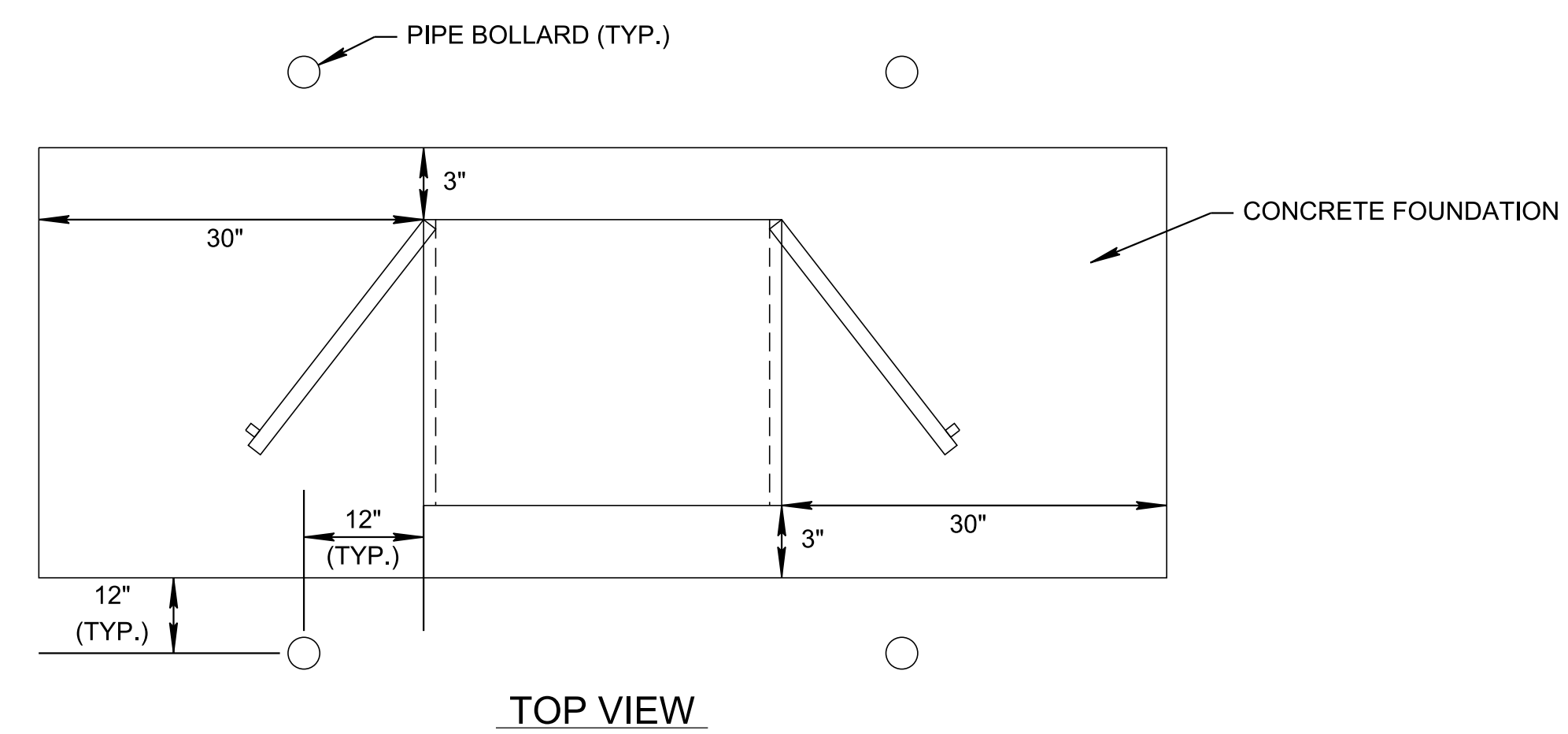
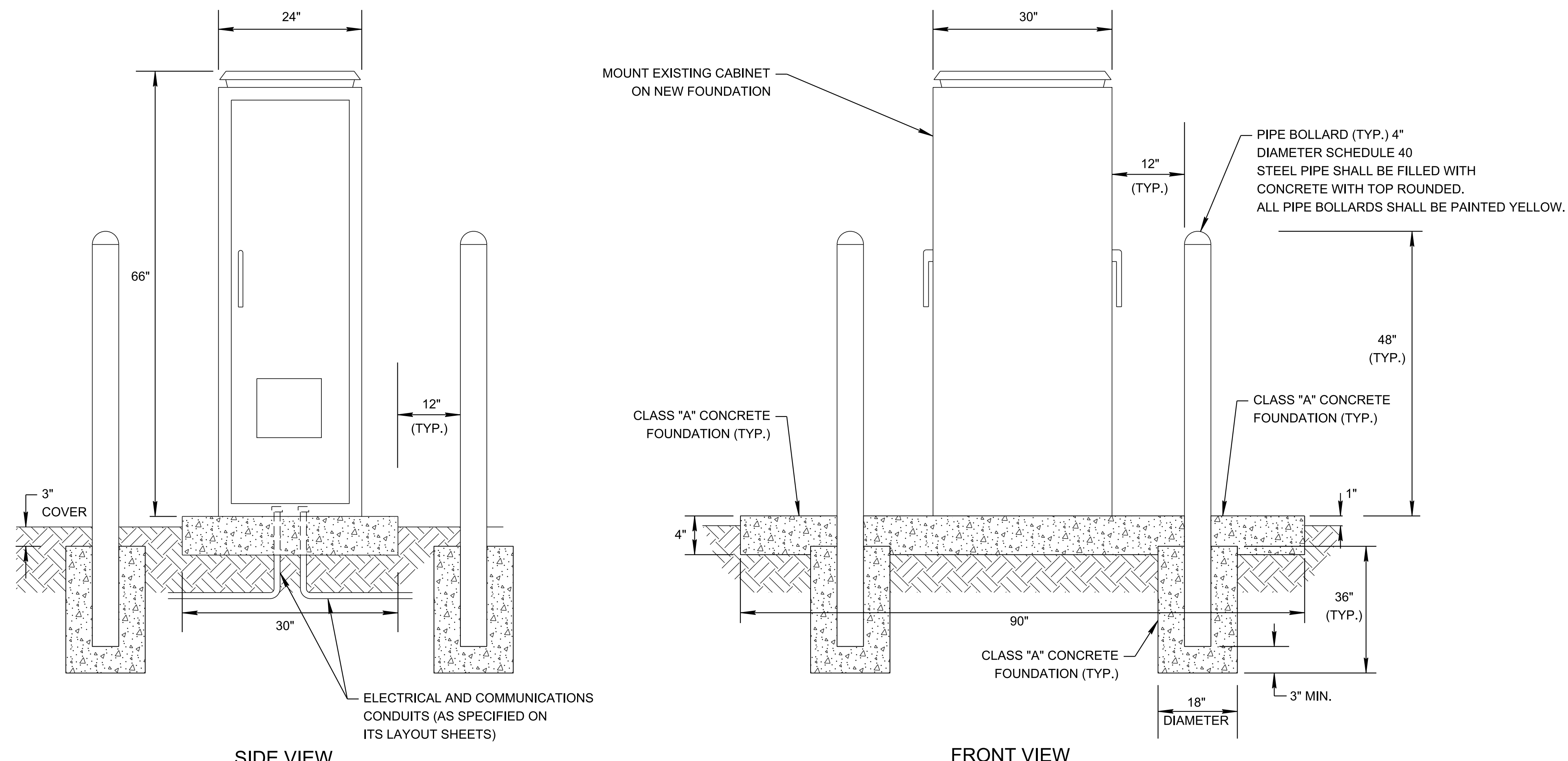
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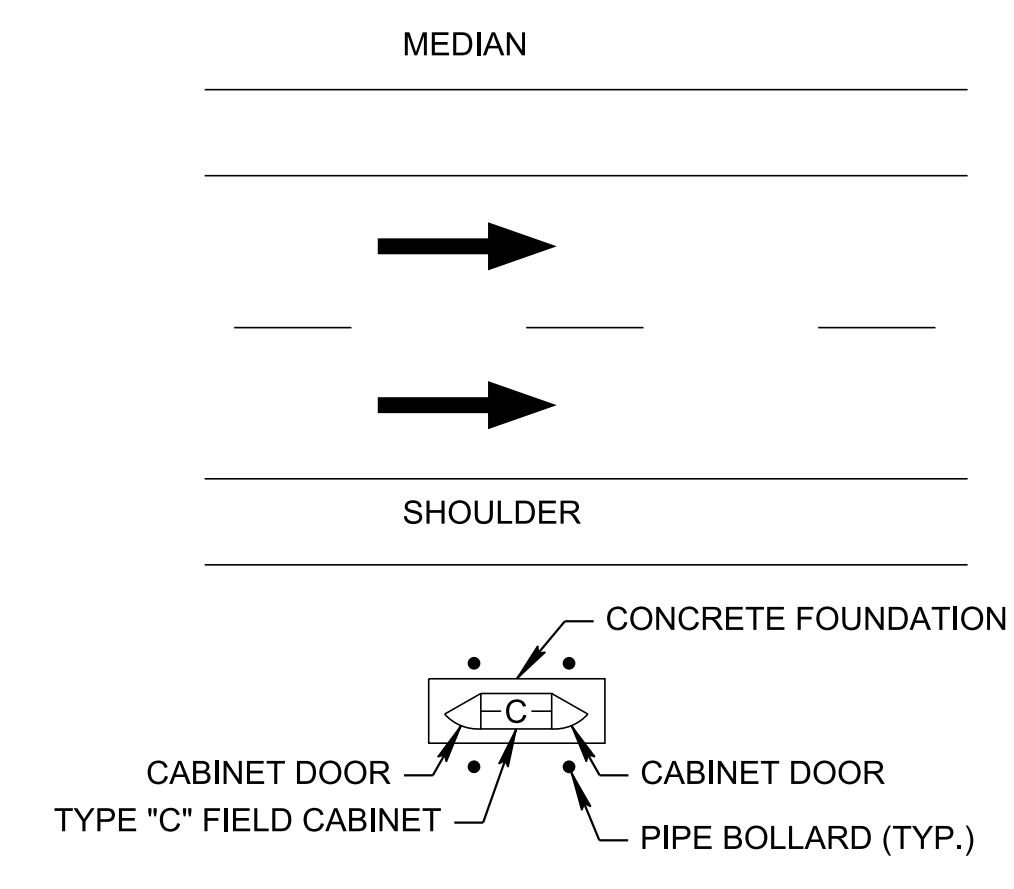
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**TYPICAL TYPE B
FIELD CABINET
DETAILS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F2



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



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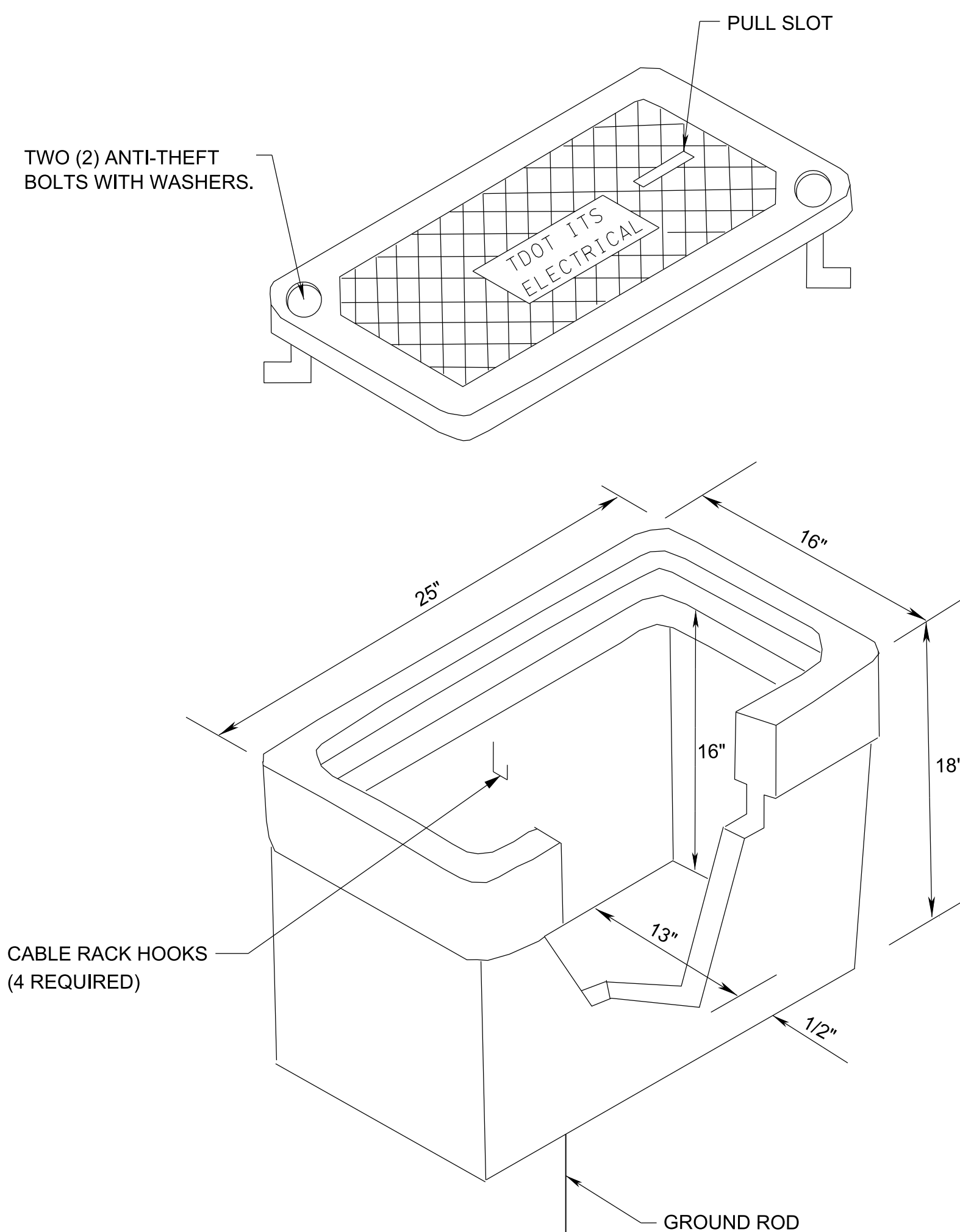
**TYPICAL TYPE C
FIELD CABINET
DETAILS**

NOTES:

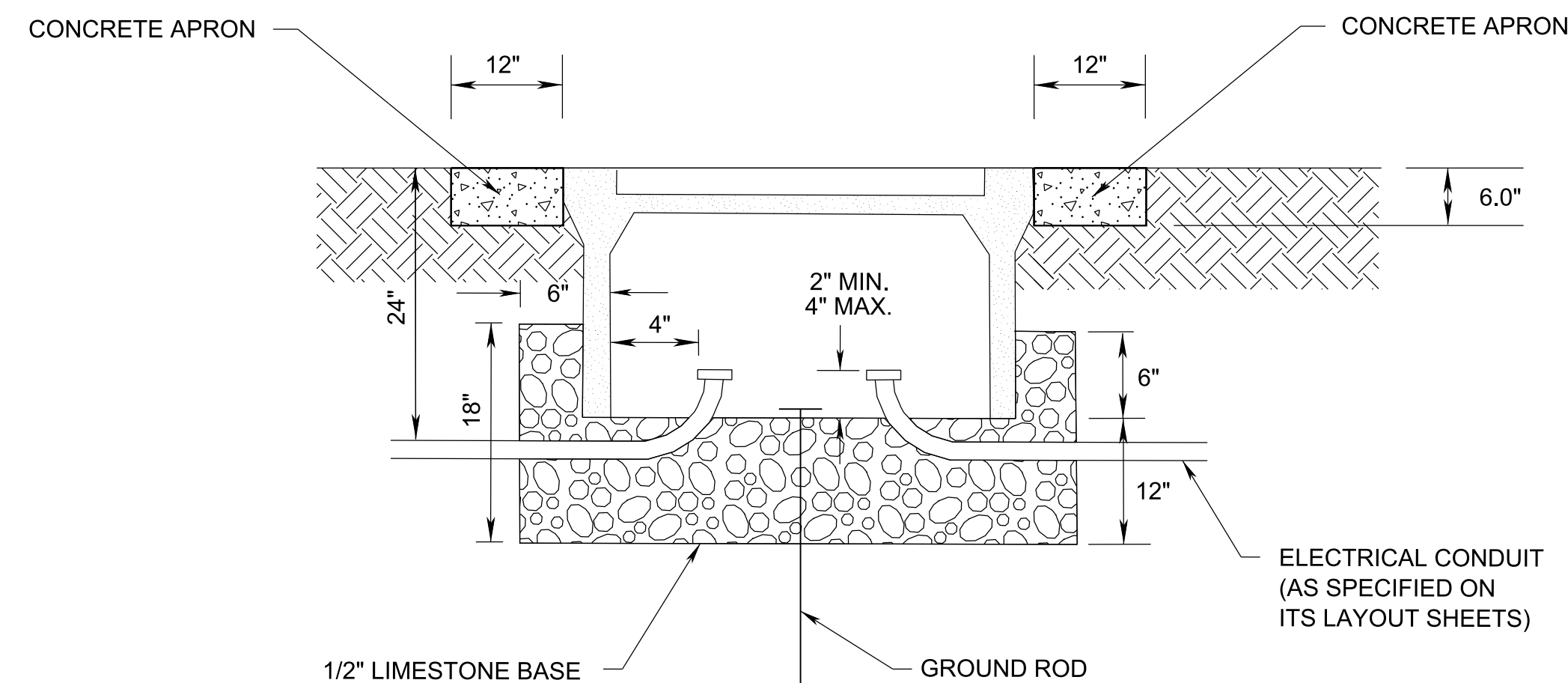
- SUNSHIELDS SHALL BE REQUIRED FOR ALL FIELD CABINETS. SUNSHIELDS SHALL BE PROVIDED FOR THE TOP PANEL AND FOR EACH FACE OF THE CABINET.
- CABINETS SHALL BE LABELED "TDOT ITS" WITH DEVICE NAME, TYPE, AND NUMBER.
- CABINETS DIMENSIONS ARE NOMINAL MINIMUMS. SEE TECHNICAL SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ONE (1) SET OF PDF SHOP DRAWINGS FOR EACH CABINET TYPE TO THE ENGINEER FOR APPROVAL.
- PREFABRICATED CONCRETE OR POLYMER CONCRETE FOUNDATIONS MAY BE SUBSTITUTED FOR APPROVAL BY THE ENGINEER IN LIEU OF CAST IN PLACE CONCRETE FOUNDATIONS.
- CONCRETE NEEDED TO FORM PAD MAY VARY BASED UPON SLOPE CONDITIONS ENCOUNTERED IN THE FIELD FOR THE TYPE "C" CABINET.
- BOLLARDS FOR TYPE "C" CABINET INSTALLATIONS SHALL BE 4" DIAMETER SCHEDULE 40 STEEL PIPES FILLED WITH CONCRETE WITH TOP ROUNDED. FOUNDATION SHALL BE 18" IN DIAMETER, 36" DEEP, AND HAVE 3" OF COVER ABOVE THE FOOTING.
- AT LOCATIONS WHERE 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).

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F3

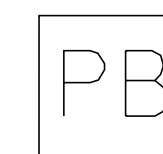


TYPICAL TYPE "C" PULL BOX ASSEMBLY
N.T.S.



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

SHOWN AS



NOTES:

TYPE "C" PULL BOX WITH COVER

THE PULL BOX SHALL MEET THE FOLLOWING REQUIREMENTS:

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

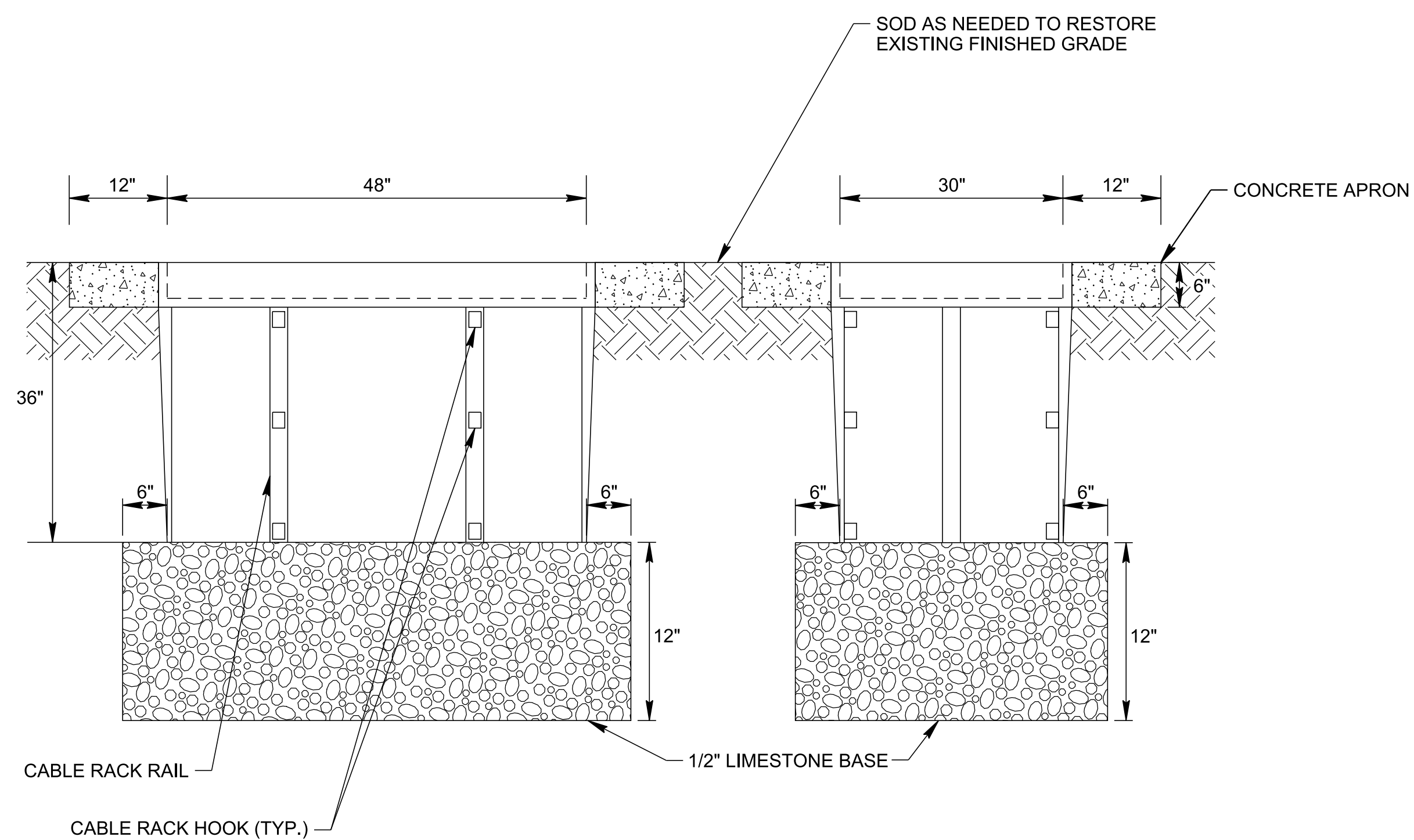
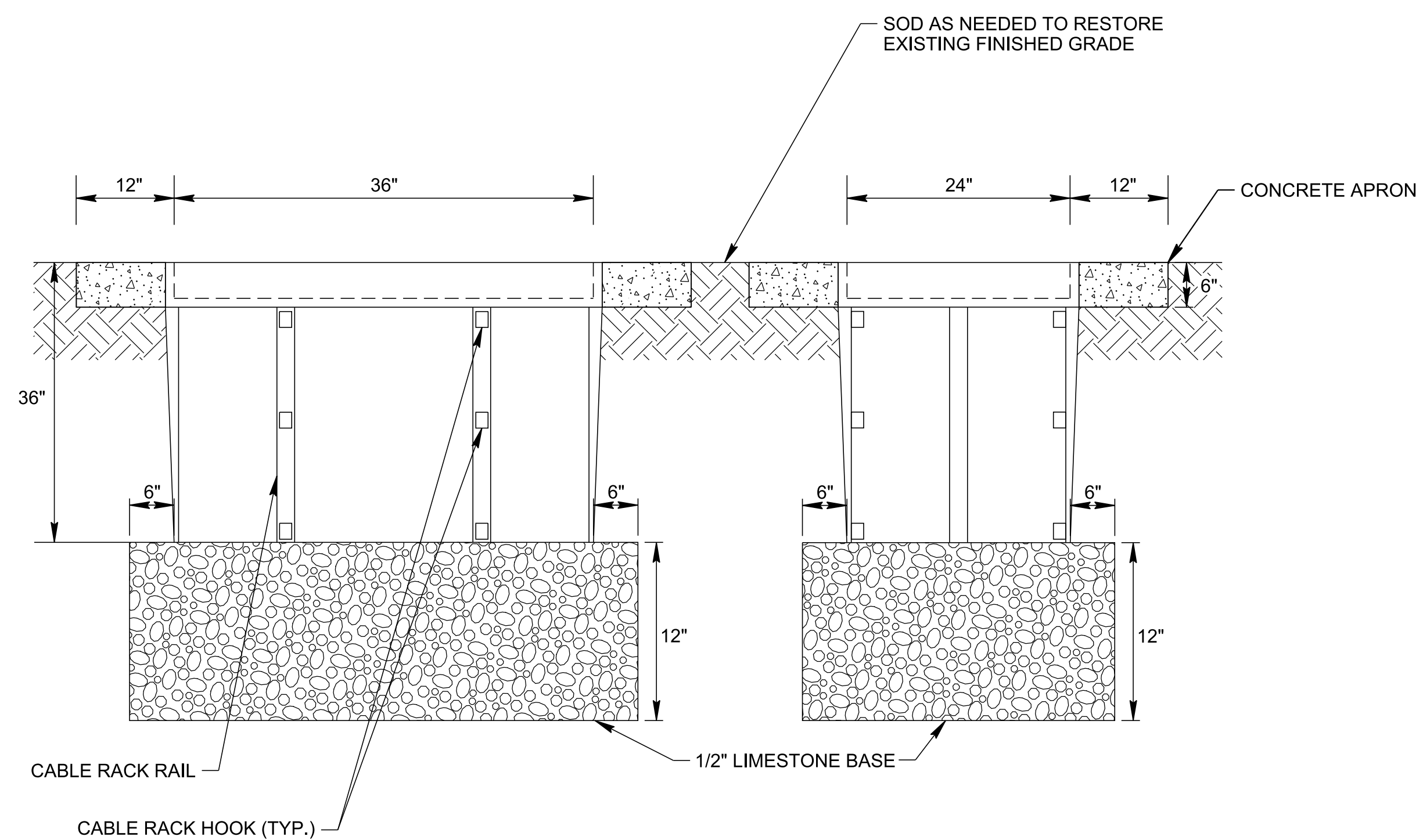
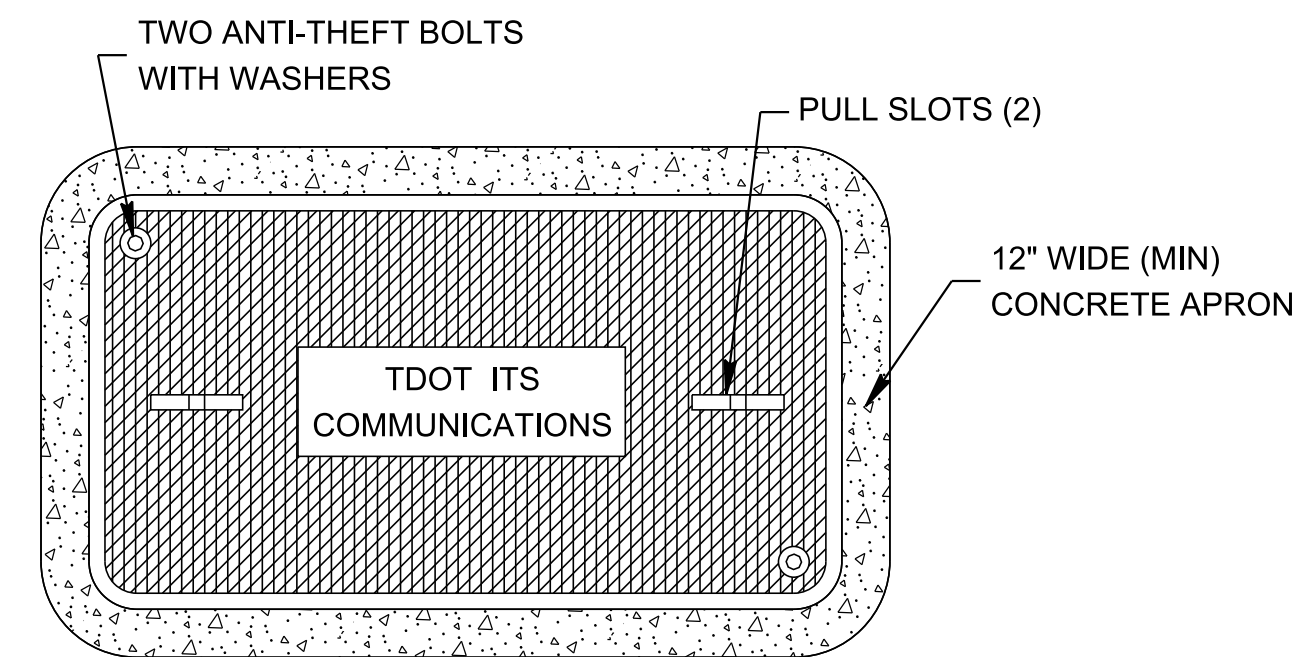
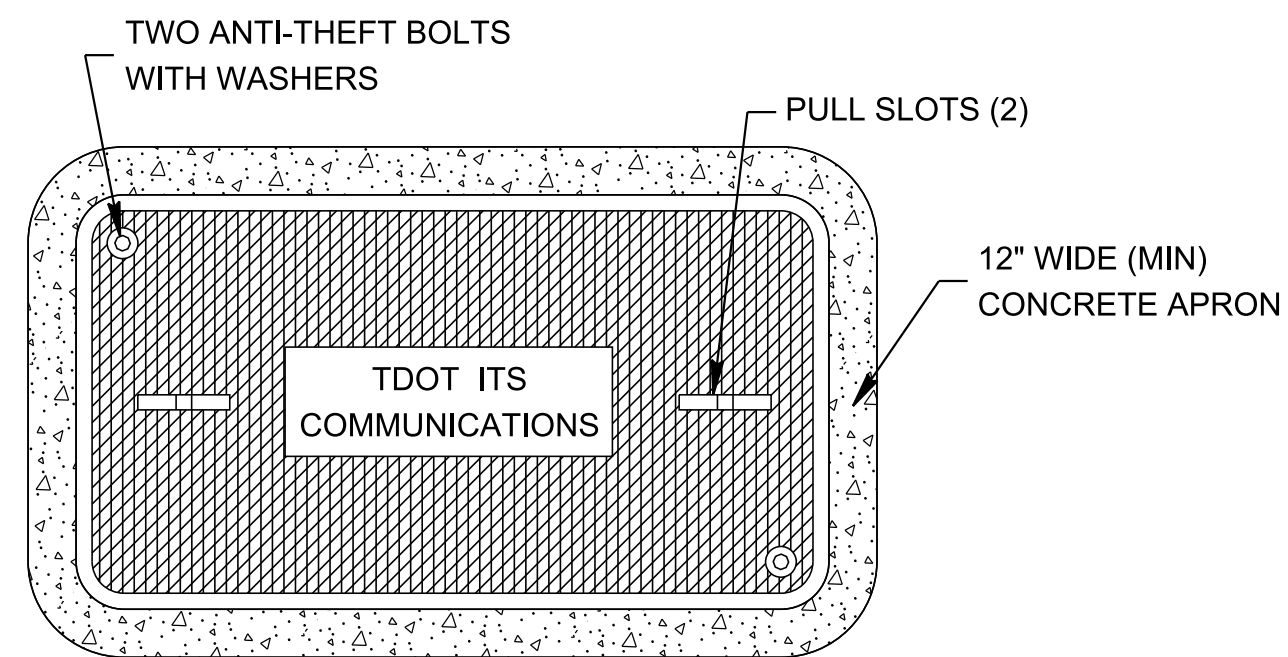
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**TYPICAL
TYPE C
PULL BOX
DETAILS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
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TYPE "D" PULL BOX ASSEMBLY
N.T.S.

SHOWN AS



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

SHOWN AS



**PRELIMINARY
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NOTES:

TYPE D AND E PULL BOX WITH COVER

- PULL BOX COVER SHALL BE PRECAST COMPOSITE POLYMER CONCRETE PRODUCT.
- PULL BOXES & COVERS SHALL BE SINGLE-STACK OPEN-BOTTOM ASSEMBLIES CONFIGURED AS SHOWN IN PLANS.
- SHALL MEET OR EXCEED CURRENT ANSI/SCTE 77 TIER 22 LOADING REQUIREMENTS.
- PULL BOX SHALL MEET CURRENT NEC STANDARDS FOR HANDHOLE ENCLOSURES.
- PULL BOX COVER SHALL BE LABELED (TDOT ITS COMMUNICATIONS).
- EACH PULL BOX SHALL COME EQUIPPED WITH 4 CABLE RACKS & 12 RACK HOOKS. THE CABLE RACKS SHALL BE A MIN. OF 24" & RACK HOOKS SHALL BE A MIN. OF 7" IN LENGTH. THE CABLE RACKS AND RACK HOOKS SHALL BE HOT-DIPPED GALVANIZED STEEL.
- TYPE D AND E PULL BOXES SHALL ONLY BE USED FOR COMMUNICATIONS CONDUIT/CABLING.
- GPS COORDINATES OF EACH PULL BOX WILL BE RECORDED IN THE AS-BUILT PLANS TO BE TURNED IN WITH THIS PROJECT.
- UNUSED CONDUIT SHALL BE STUBBED OUT AND CAPPED TO PRESERVE FOR FUTURE USE.
- CONDUIT SHALL ENTER TYPE "D" AND "E" PULL BOXES THROUGH THE SIDEWALL.
- HOLES ALONG THE SIDEWALLS SHALL BE CUT BY THE CONTRACTOR.
- ALL TYPE D AND E PULL BOXES SHALL HAVE 12" WIDE (MIN.) x 6" DEEP CONCRETE APRON SLOPE AWAY FROM BOX. CONCRETE APRON TO BE INCLUDED IN THE COST OF EACH BOX.

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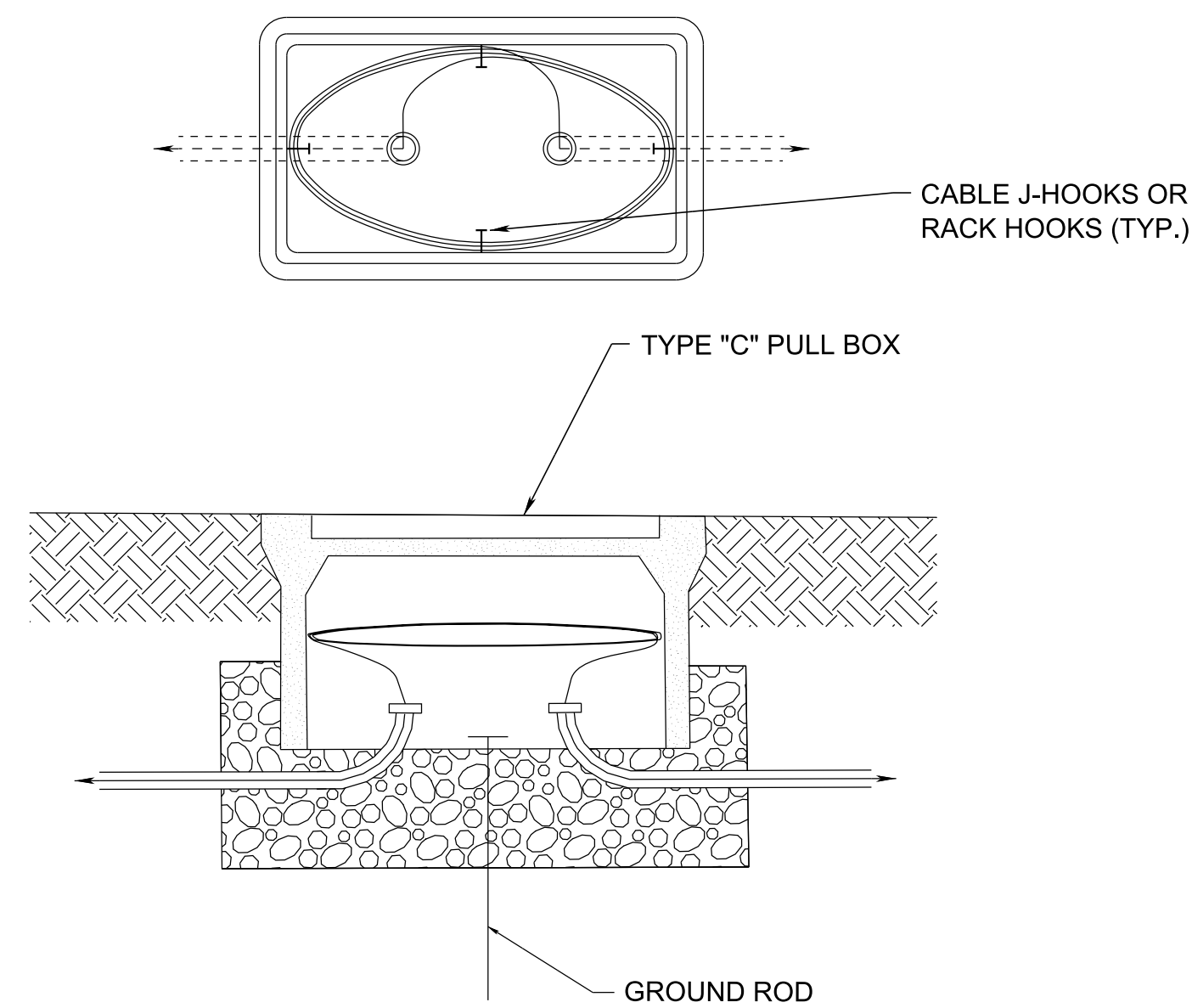
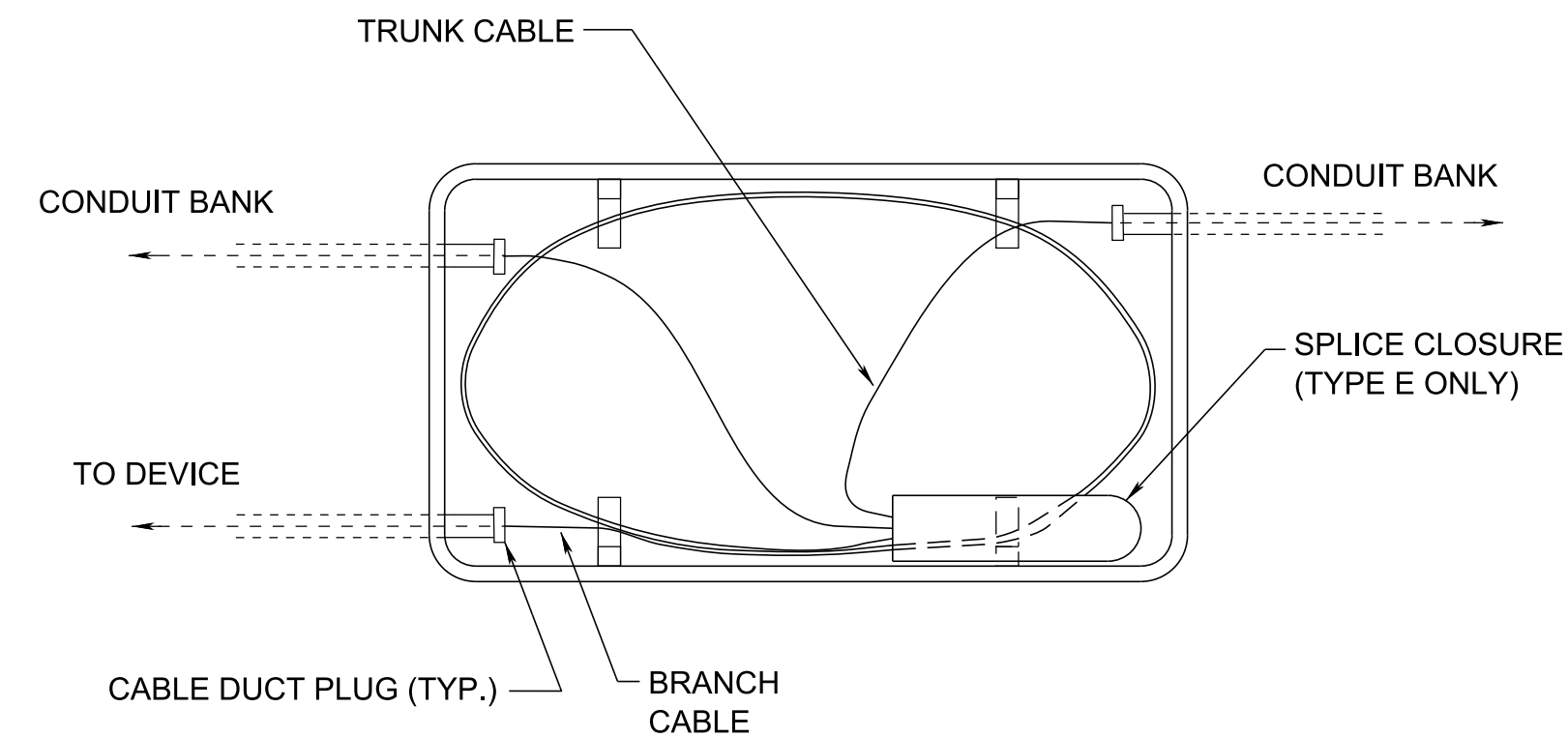
**TYPICAL
TYPE D&E
PULL BOX
DETAILS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F5

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	--	--	--
RDS CABLE	20	20	20	--
DMS COMM CABLE	--	10	--	10
DMS PWR CABLE	10	--	--	10

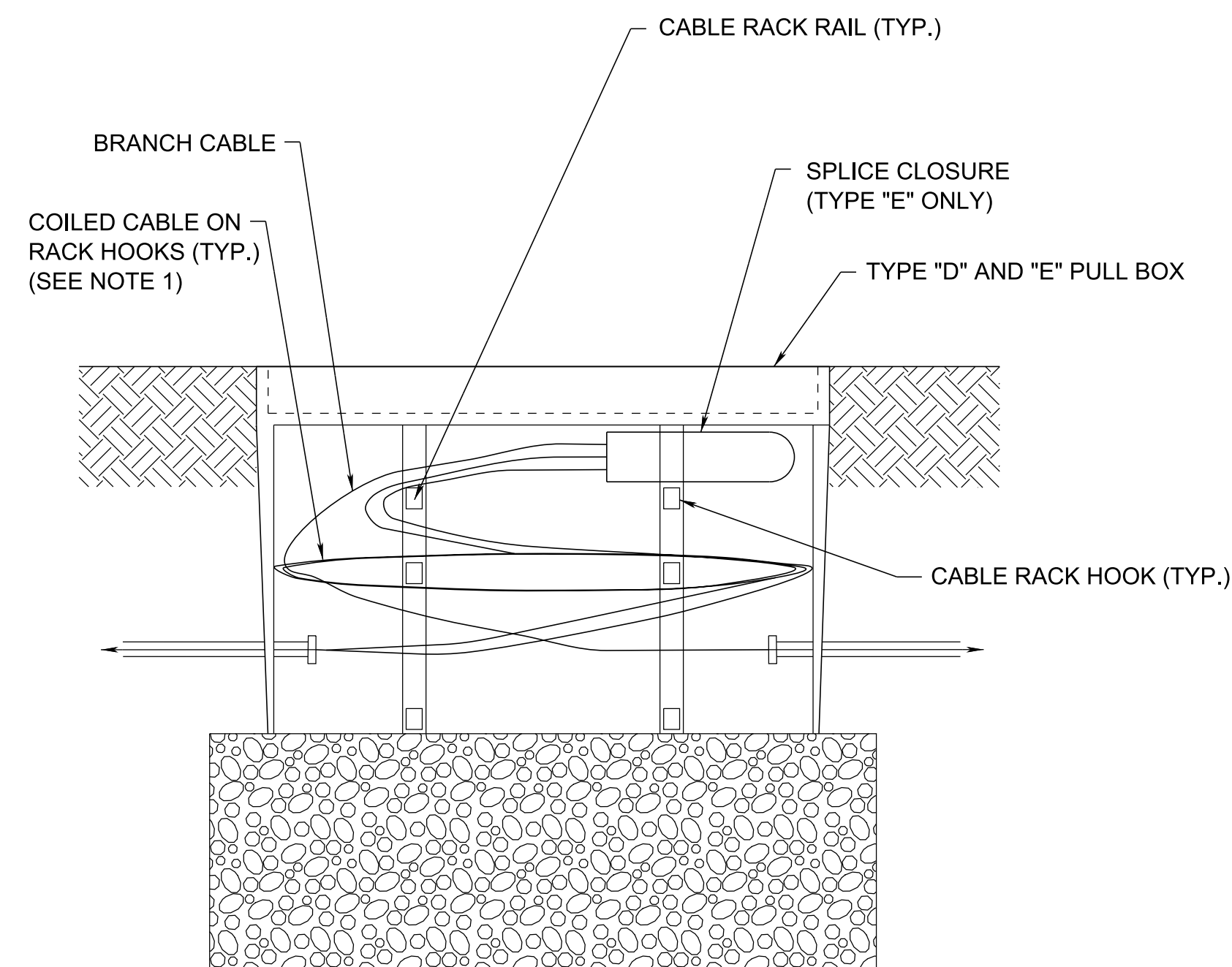
NOTE: SEE SP 725 FOR ADDITIONAL INFORMATION

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.

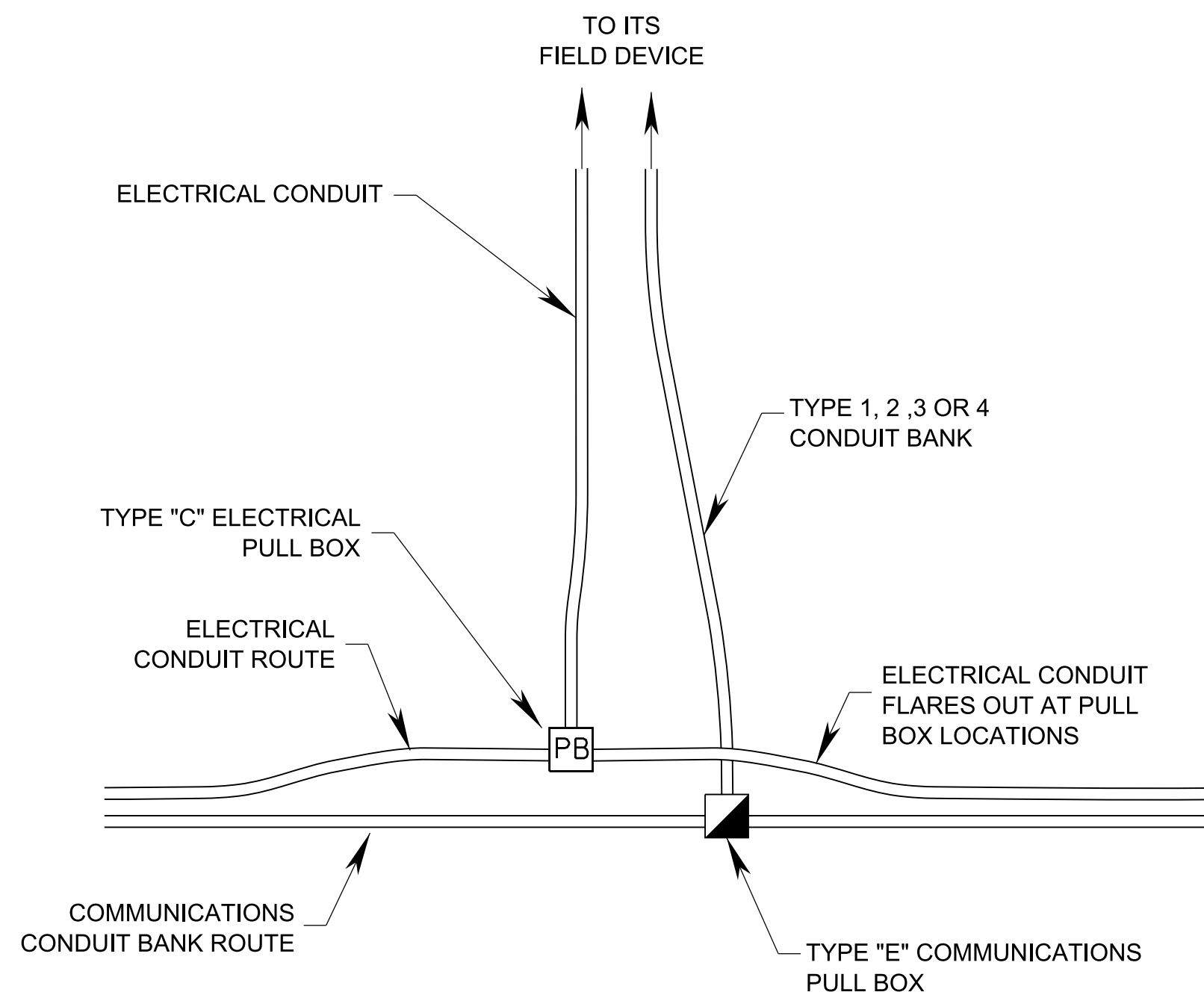
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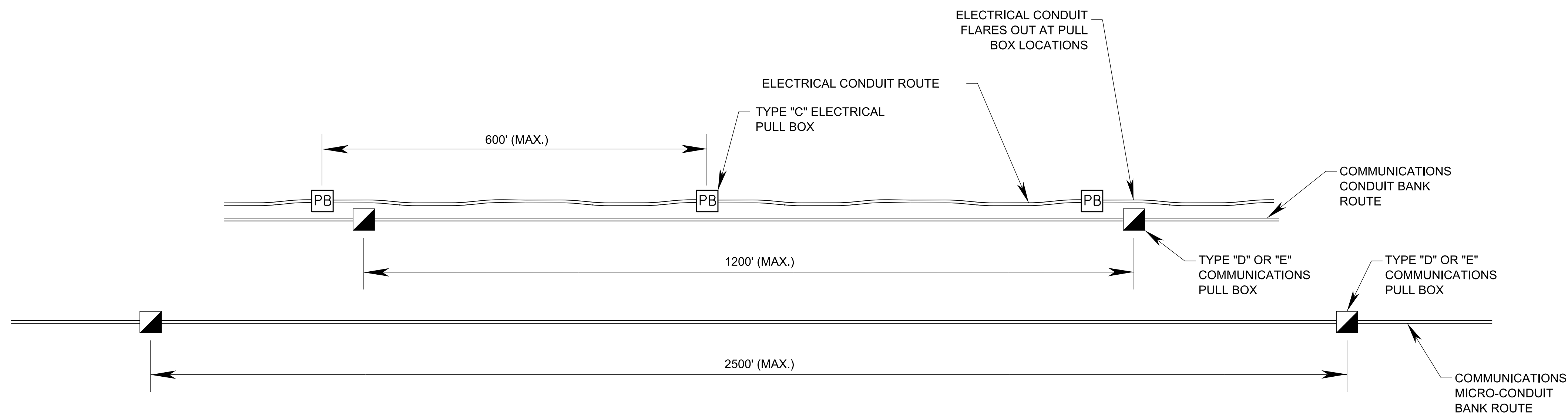
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DEPARTMENT OF TRANSPORTATION

TYPICAL
CABLE MANAGEMENT
DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F6



TYPICAL CONDUIT/PULL BOX PLACEMENT AT ITS FIELD DEVICE
N.T.S.



TYPICAL CONDUIT/PULL BOX PLACEMENT ALONG FIBER OPTIC COMMUNICATIONS TRUNK LINE
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 600 FT MAXIMUM FOR ELECTRICAL CONDUIT ROUTES, 1200' MAXIMUM FOR THE COMMUNICATIONS TRUNK LINE, AND 2500' MAXIMUM FOR COMMUNICATIONS TRUNK LINES UTILIZING MICRO-CONDUIT (AS DEPICTED ON THE ITS LAYOUT SHEETS).

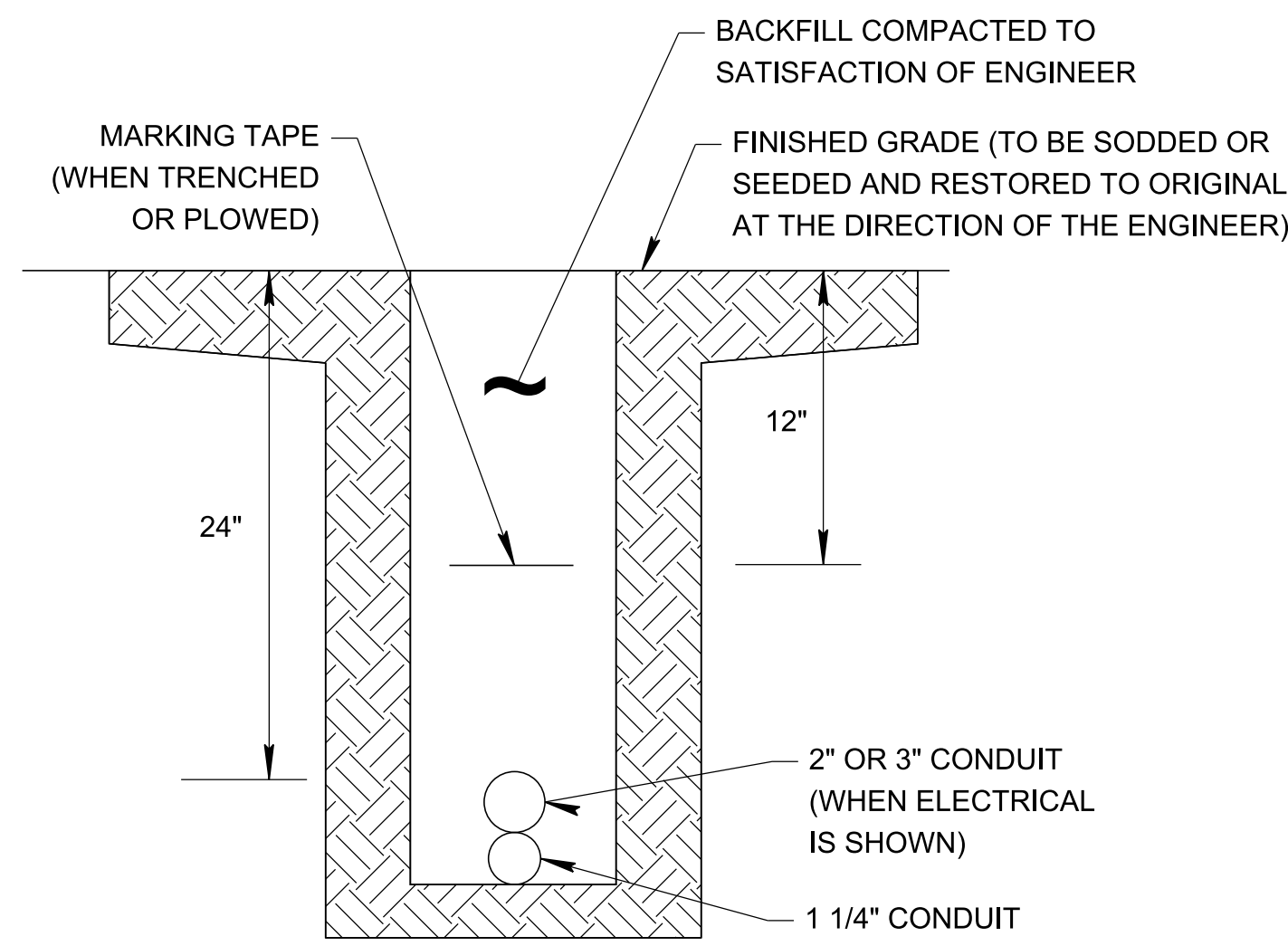
**PRELIMINARY
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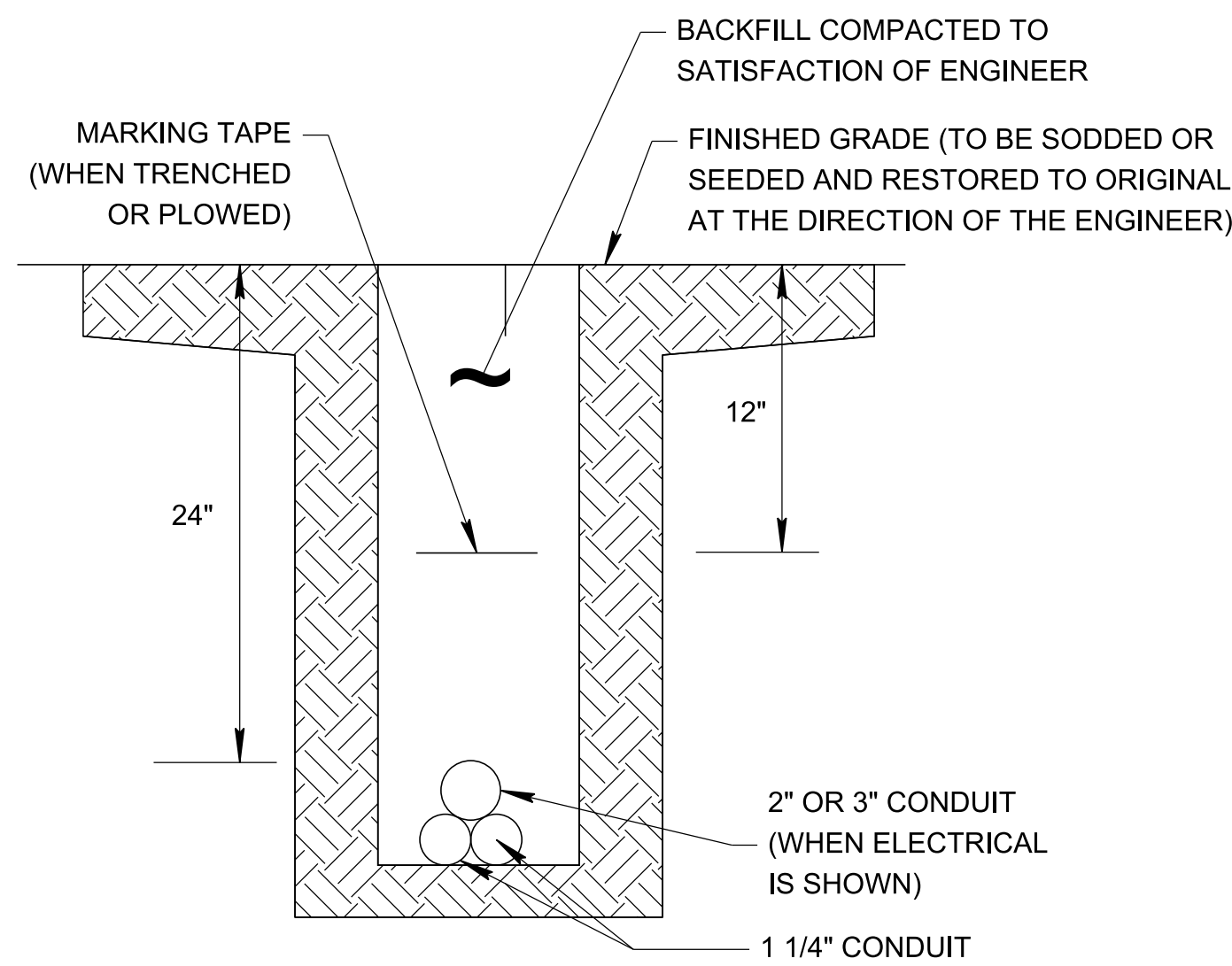
**TYPICAL CONDUIT
AND TRENCHING
AND BORE
DETAILS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F7



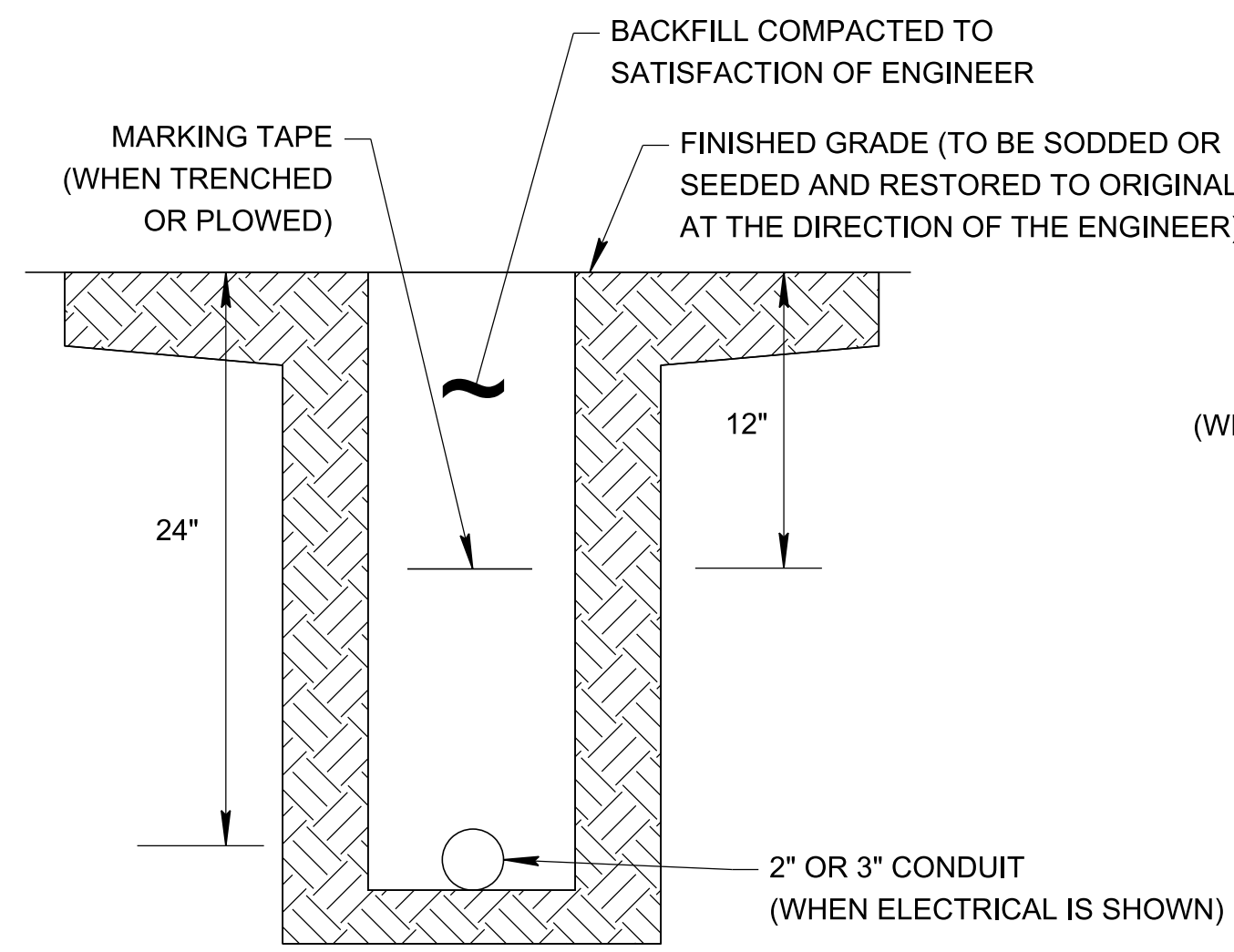
CONDUIT BANK TYPE 1
N.T.S.

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



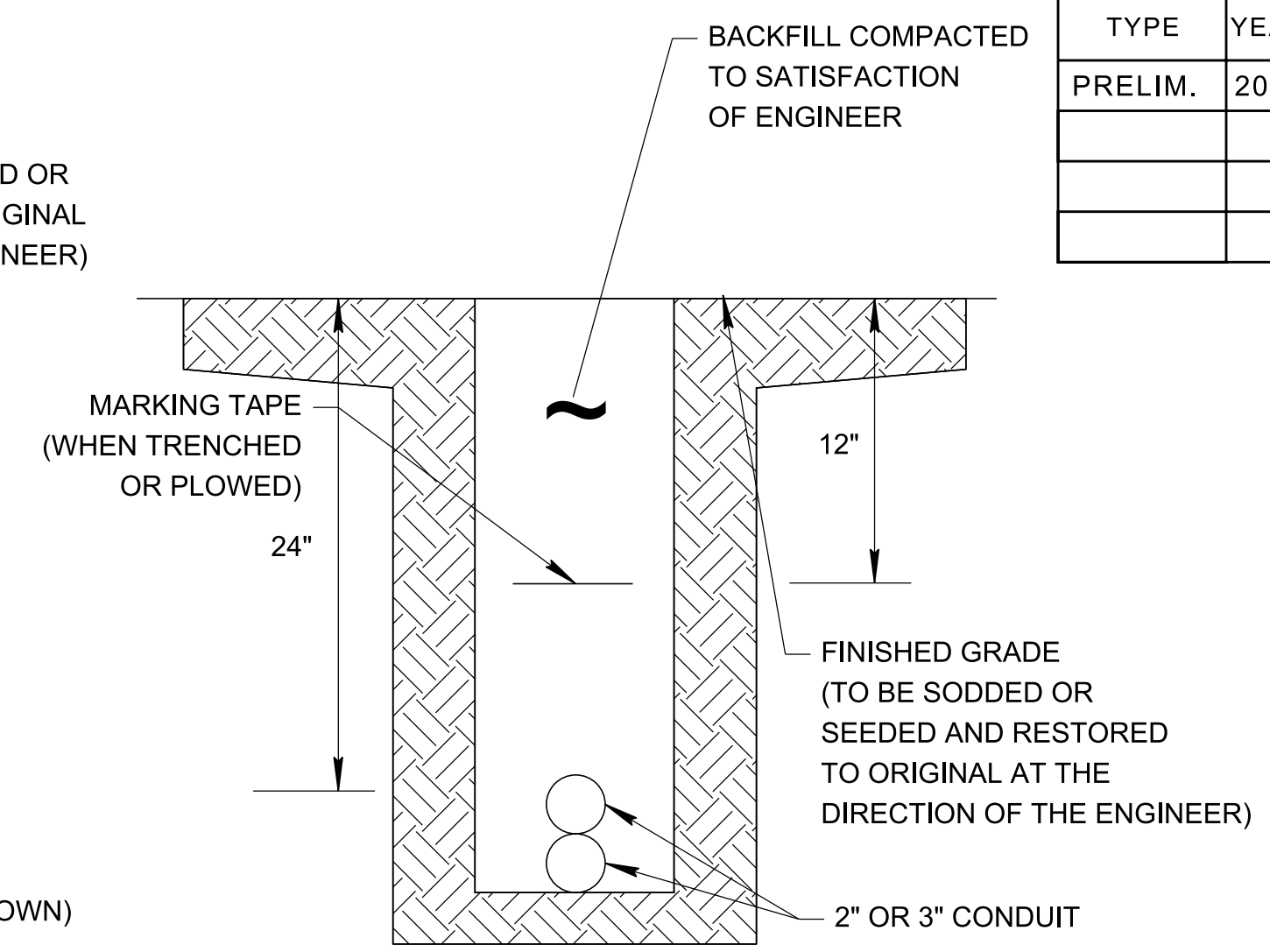
CONDUIT BANK TYPE 2
N.T.S.

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



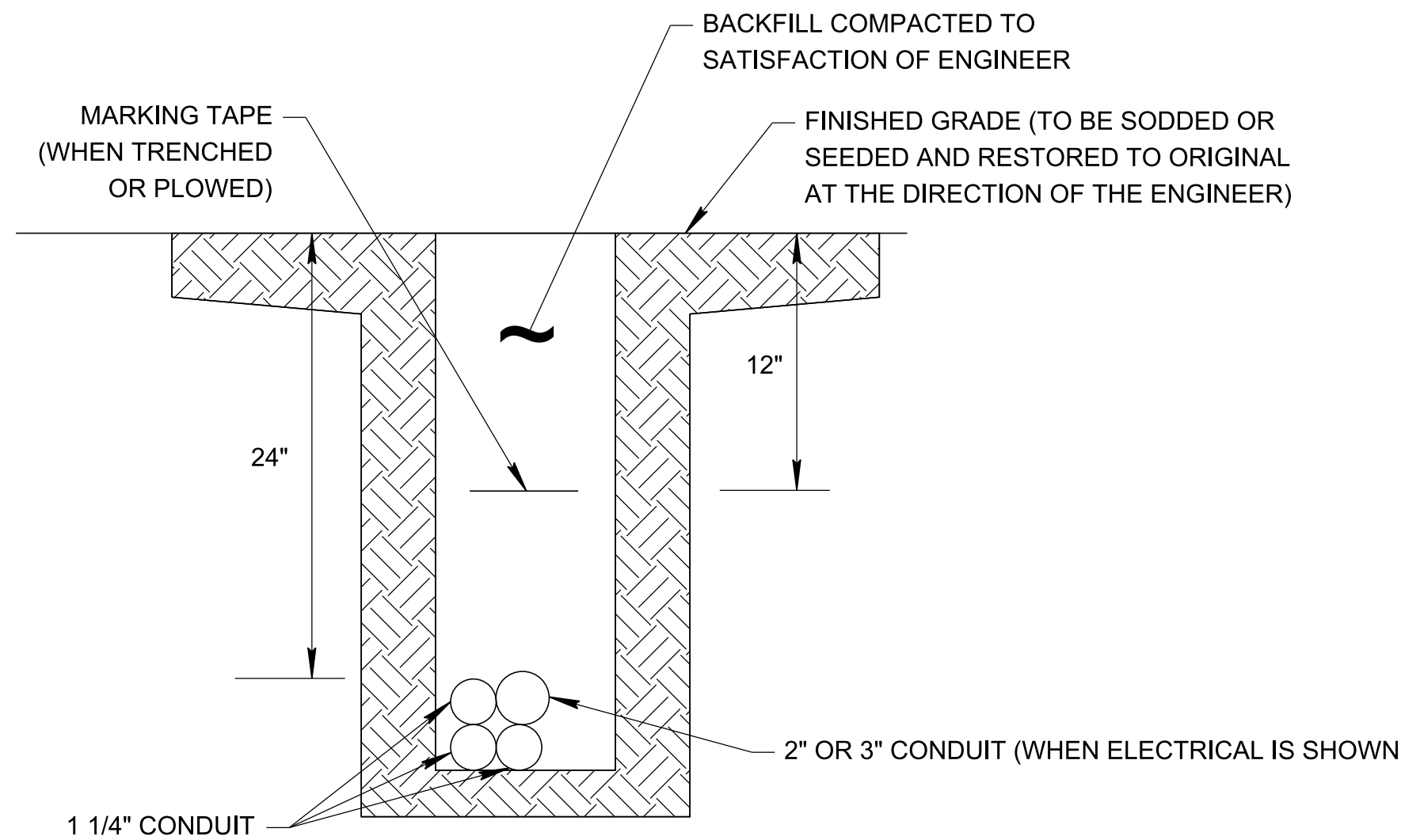
2" OR 3" CONDUIT
N.T.S.

ONE 2" OR 3" CONDUIT



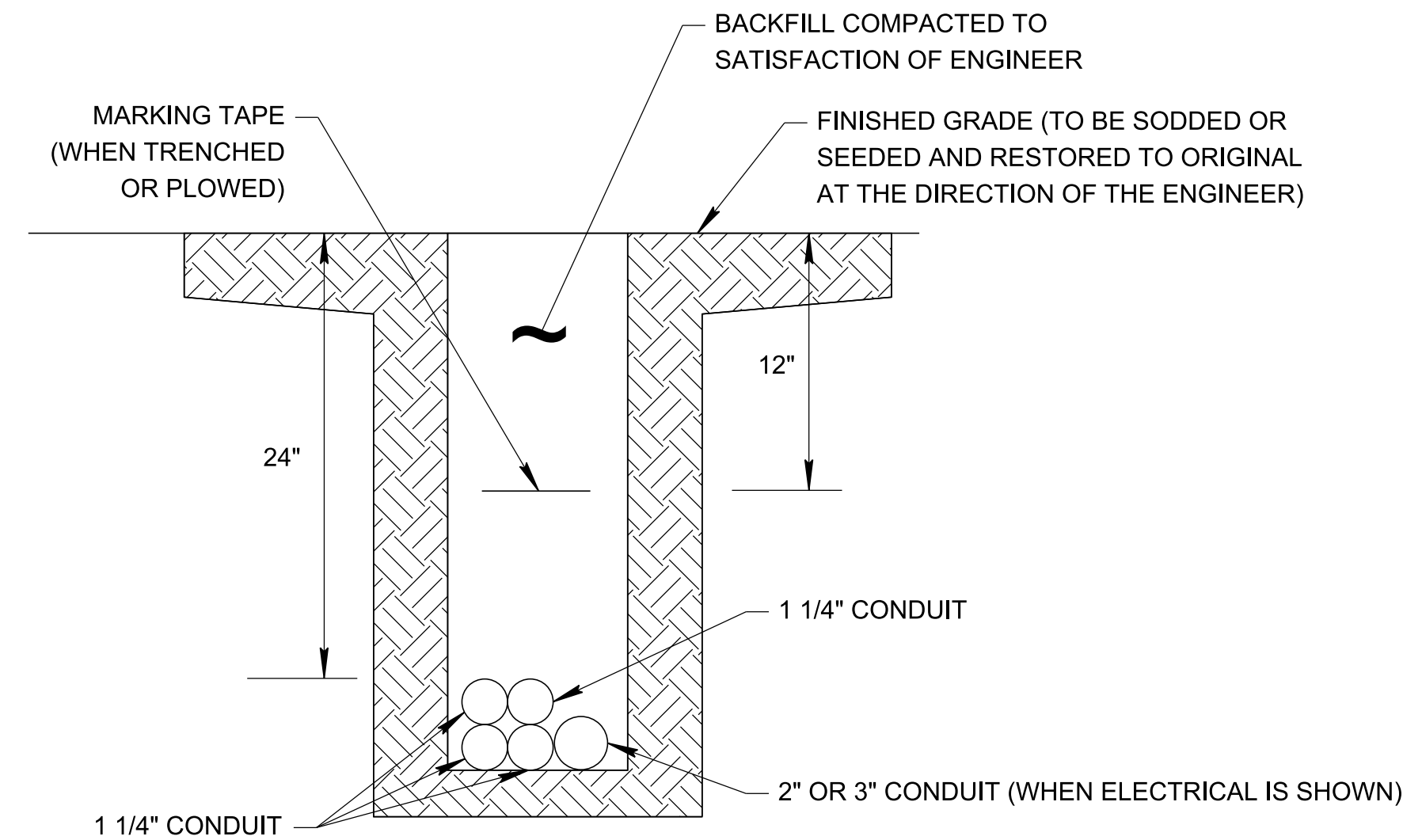
MULTIPLE 2" OR 3" CONDUITS
N.T.S.

TWO 2" OR 3" CONDUITS



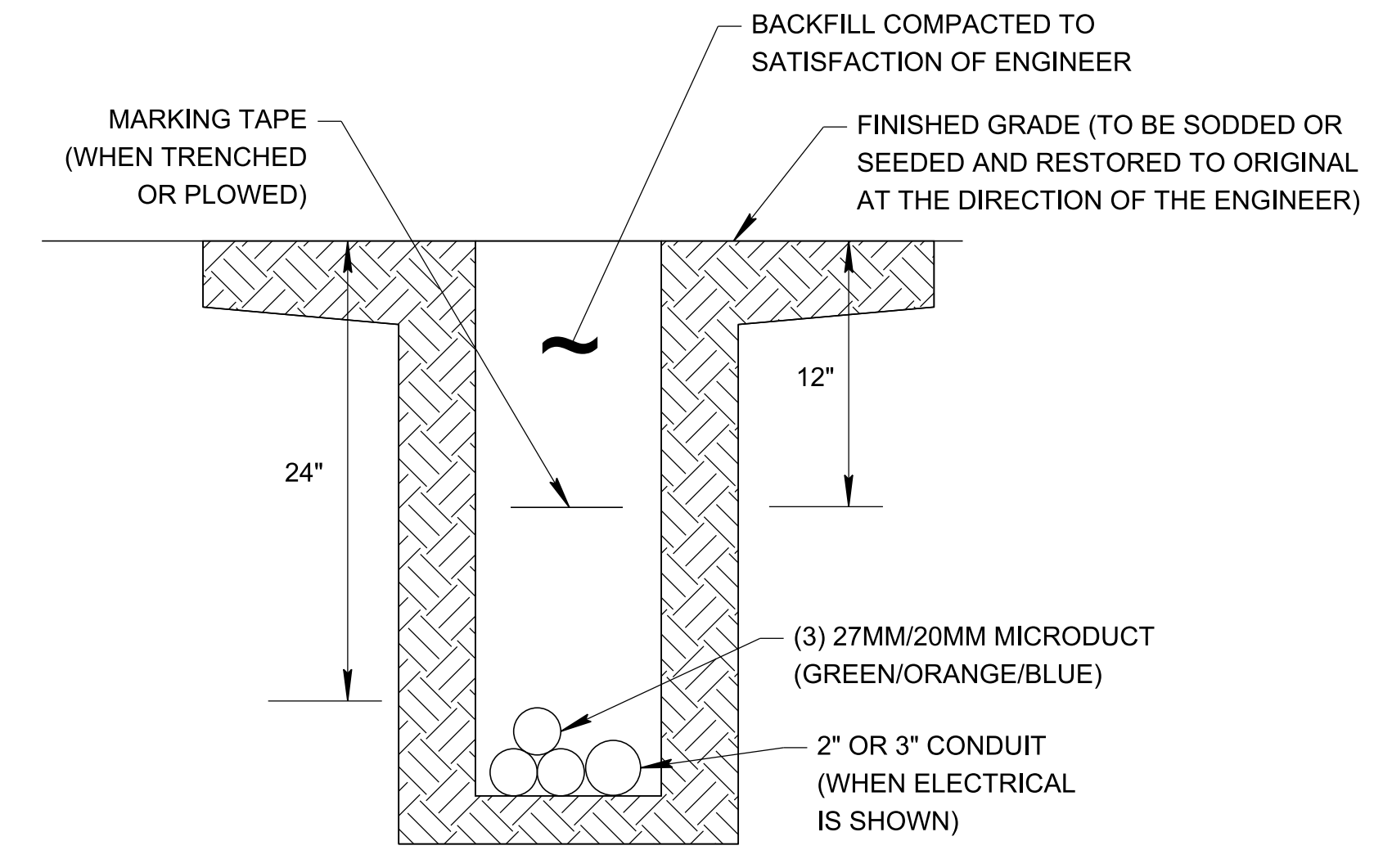
CONDUIT BANK TYPE 3
N.T.S.

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



CONDUIT BANK MICRO-CONDUIT
N.T.S.

THREE 27MM/20MM MICRODUCT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY

CONDUIT COLORS

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

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

NOTES:

1. 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.

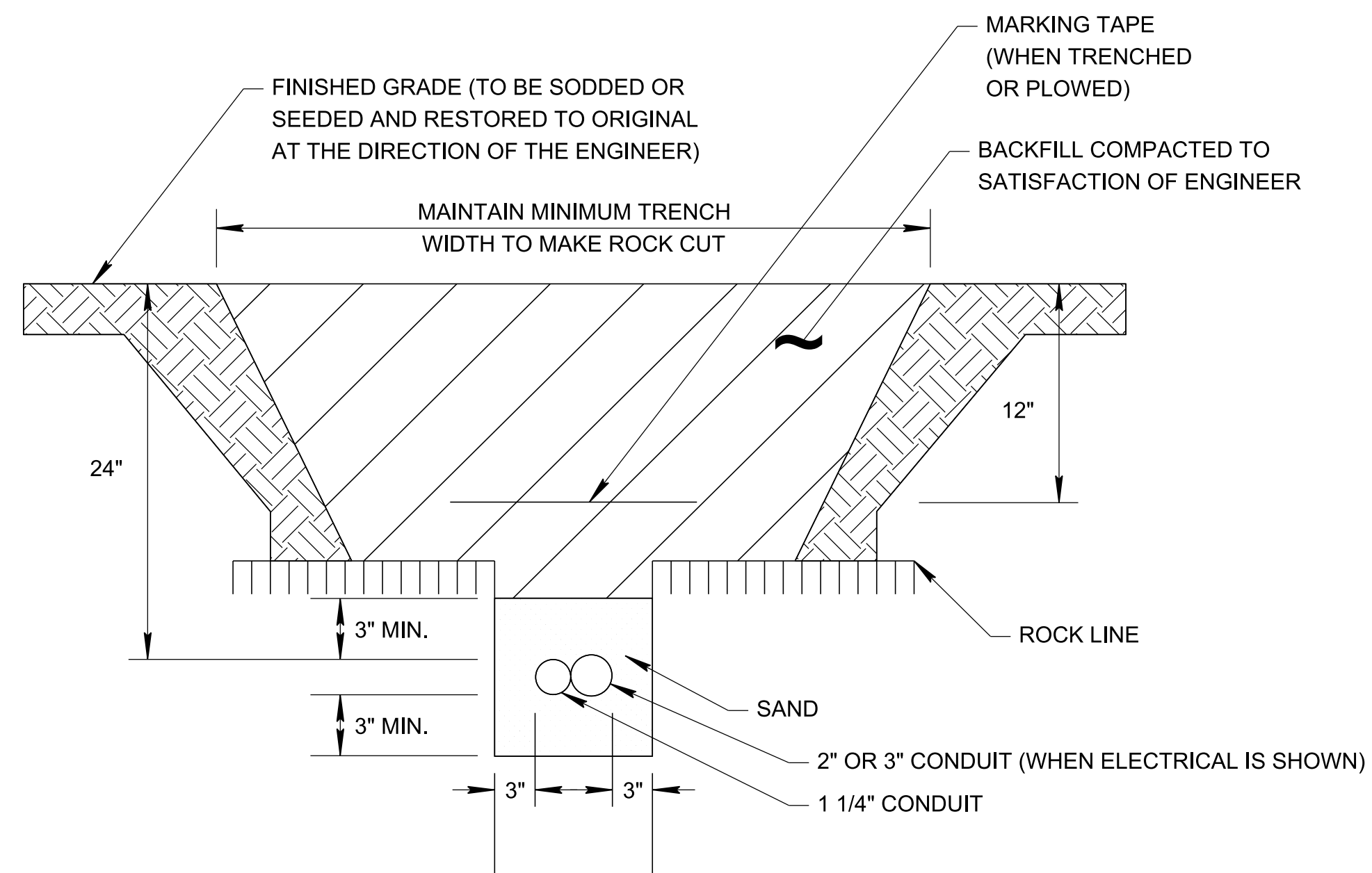
**PRELIMINARY
PLANS**

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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CONDUIT
AND TRENCHING
DETAILS**

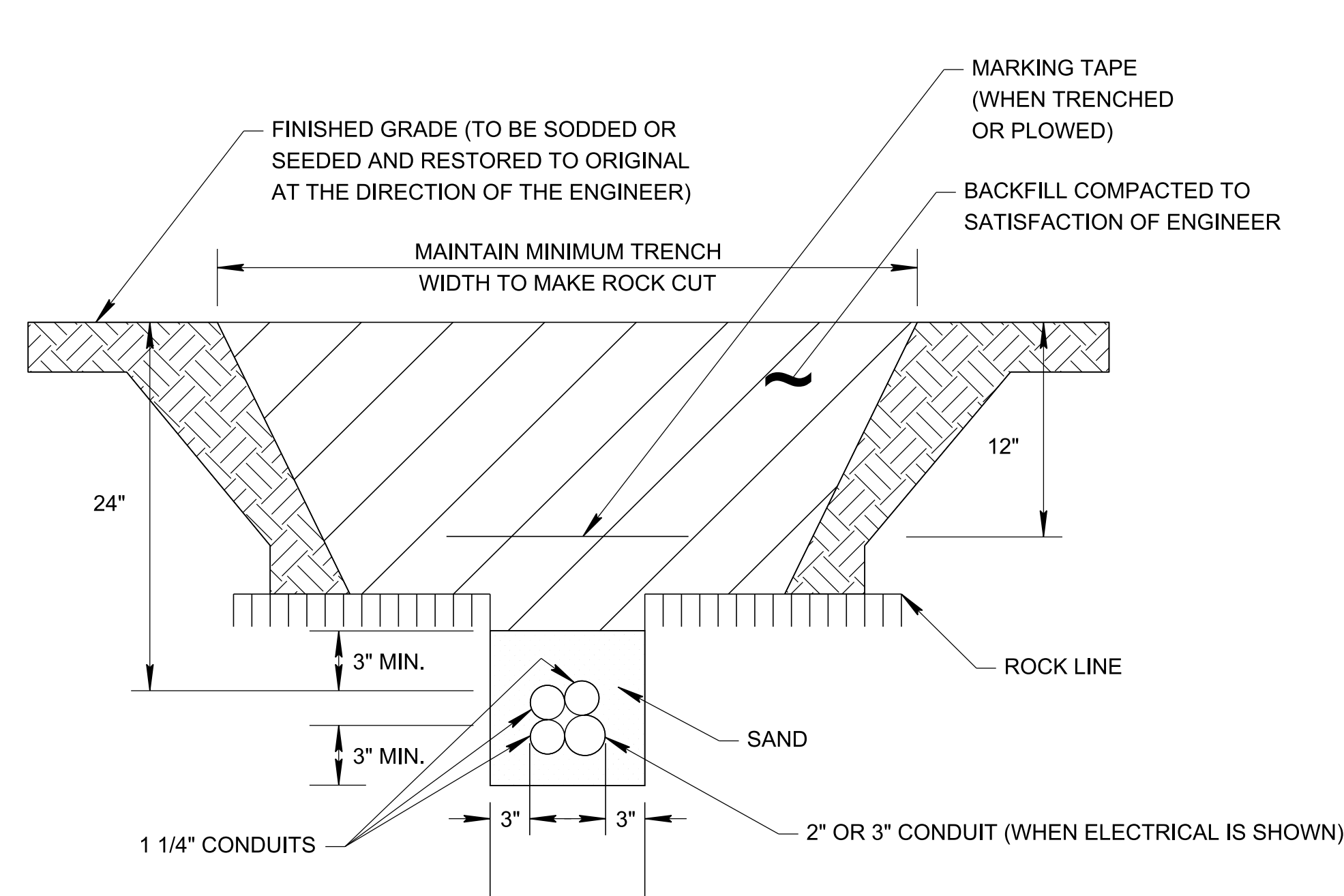
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F8



CONDUIT BANK TYPE 1 IN ROCK

N.T.S.

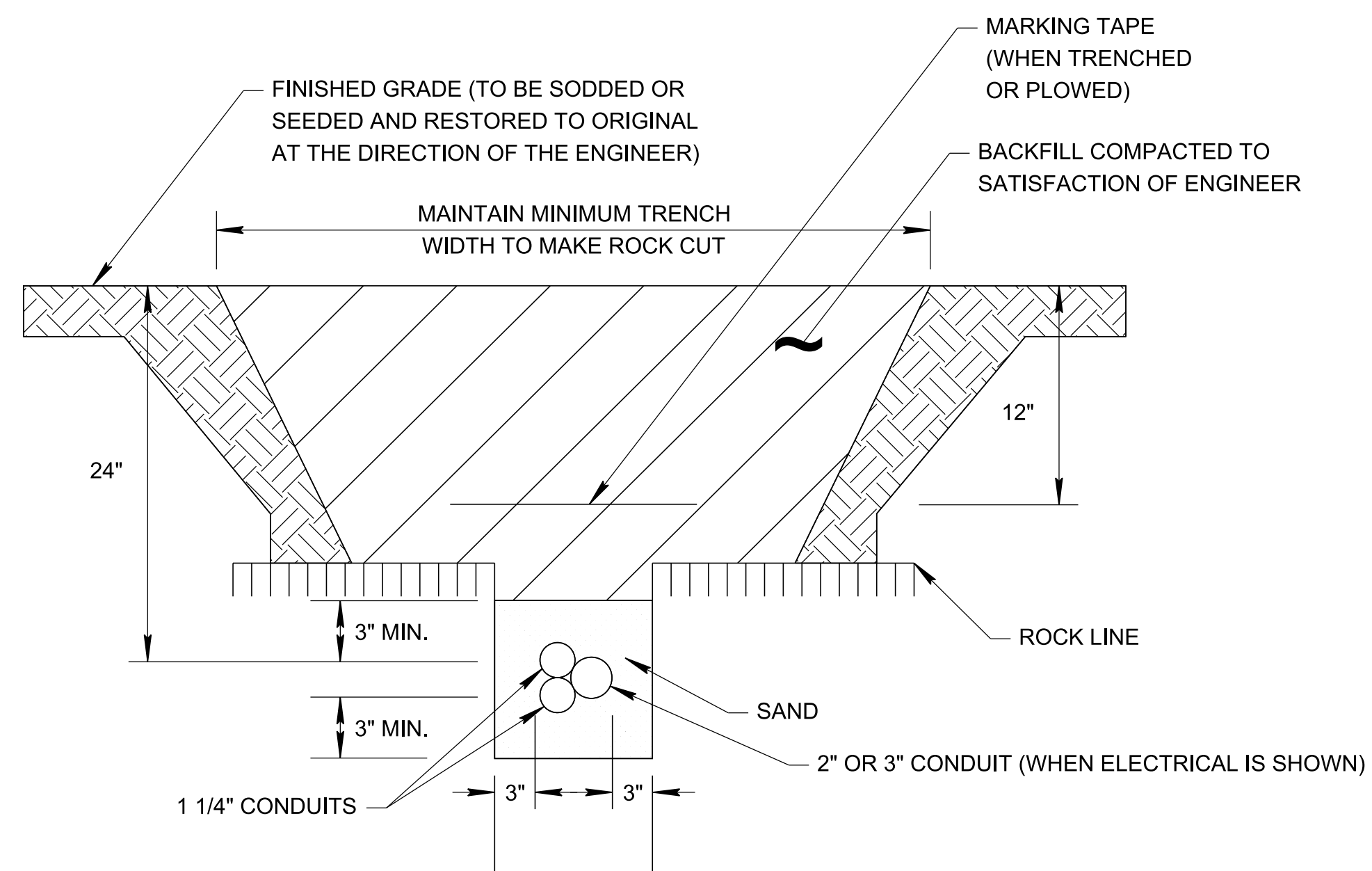
ONE 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 3 IN ROCK

N.T.S.

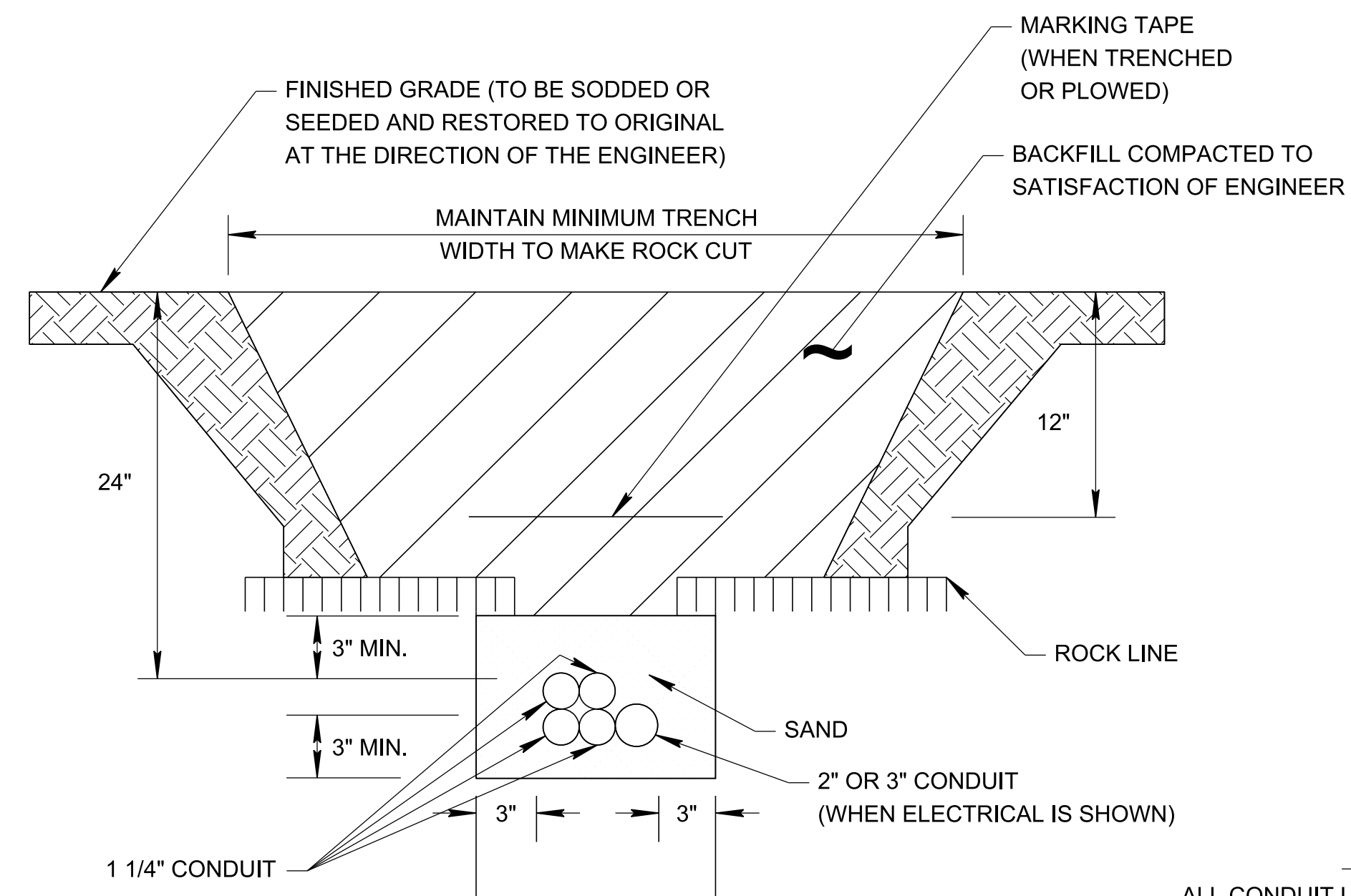
THREE 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



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:

- ROCK LINE WILL VARY. ROCK EXCAVATION TO BE INCLUDED IN CONDUIT BANK.
- 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.
- 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.
- WARNING TAPE SHALL BE LABELED "WARNING - ELECTRICAL/FIBER OPTIC CABLE BELOW."
- IF A DRAINAGE OR UTILITY CONFLICT ARISES THE CONTRACTOR SHALL SUBMIT A PLAN FOR RESOLVING THE CONFLICT TO THE ENGINEER FOR REVIEW AND APPROVAL.
- ALL CONDUIT USED ON THIS PROJECT SHALL CONFORM TO THE COLOR SCHEME AND USE IN ACCORDANCE WITH THE SP 725.

CONDUIT COLORS

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

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

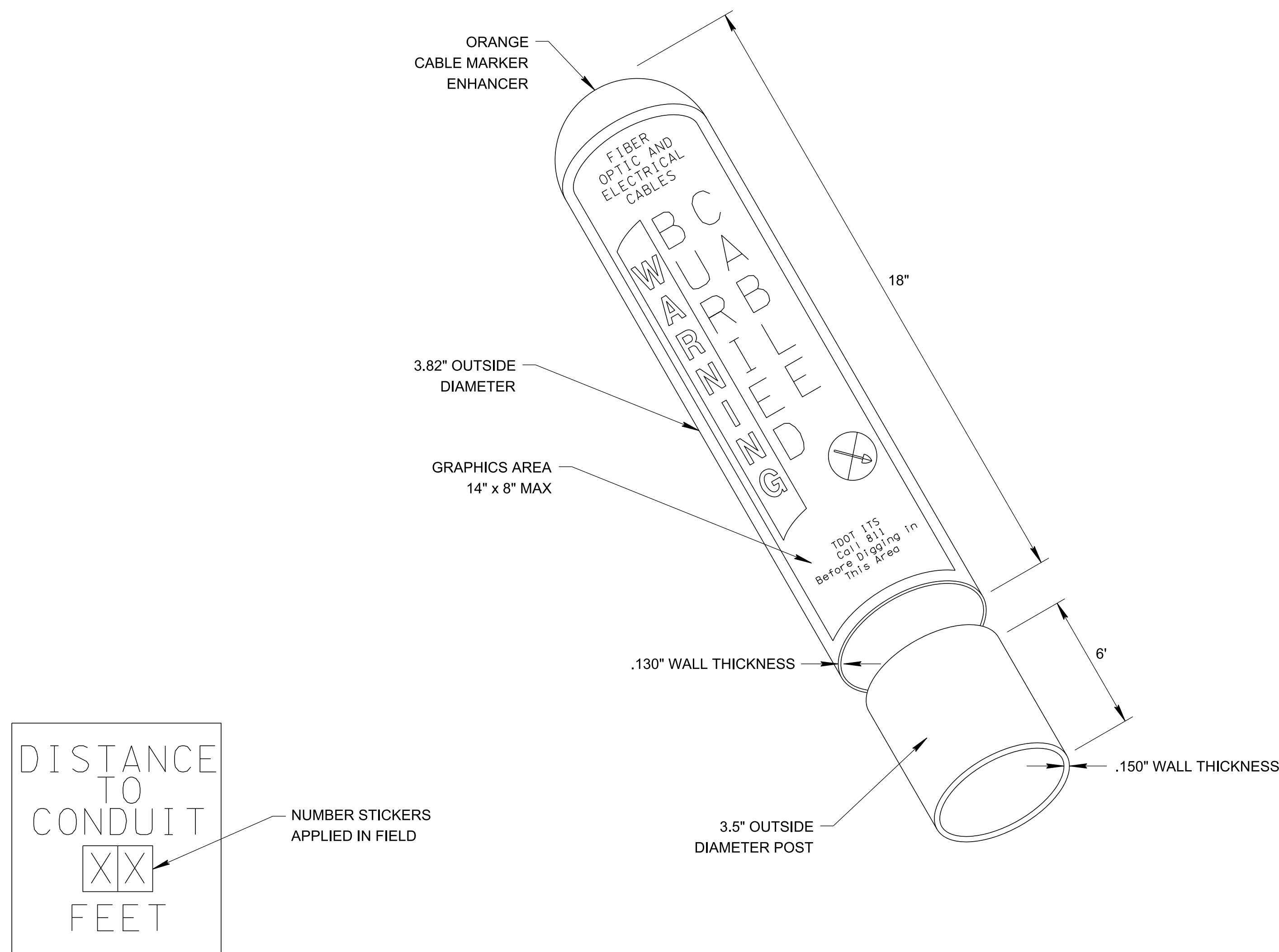
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PLANS**

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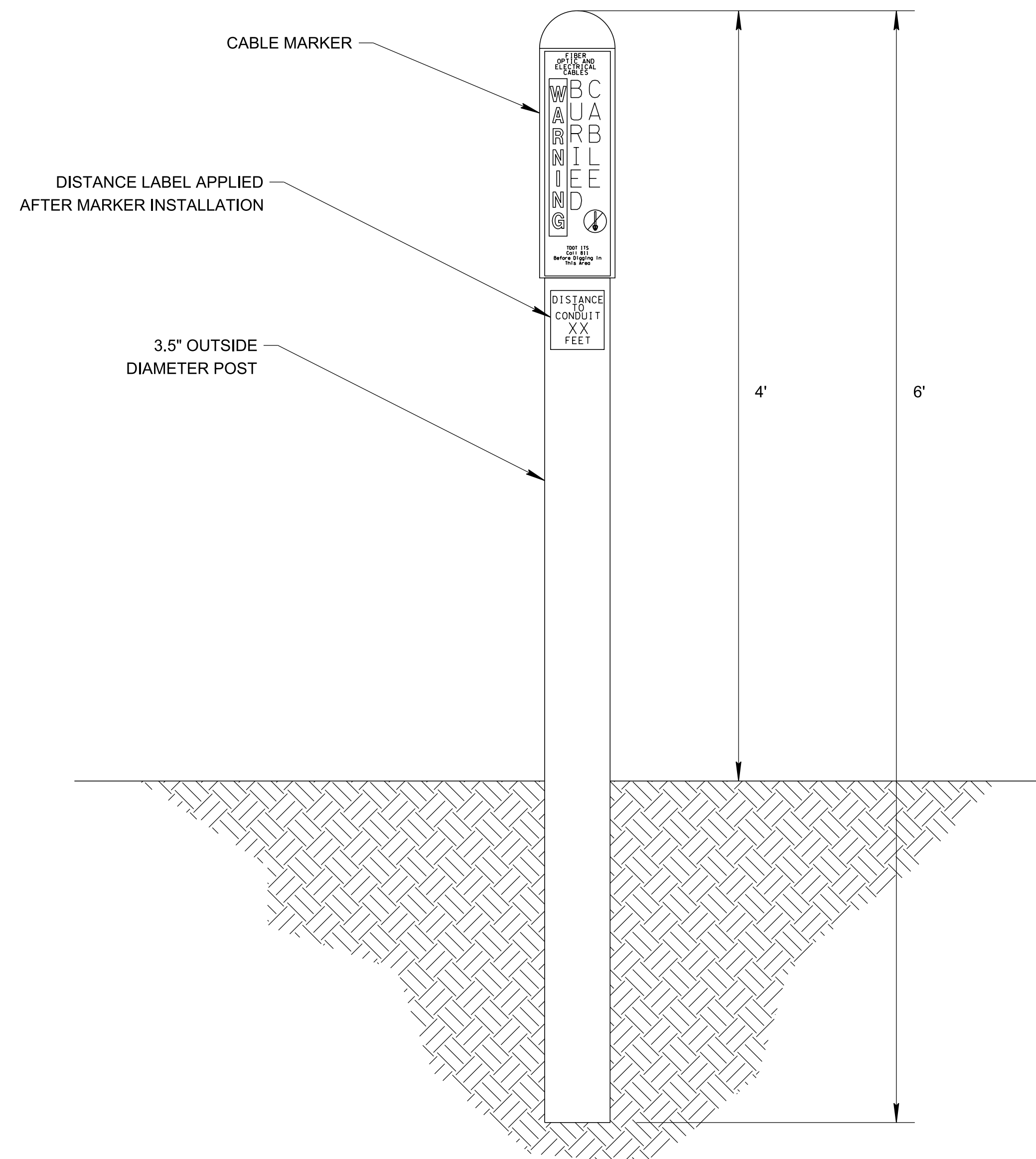
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CONDUIT
AND TRENCHING
DETAILS**

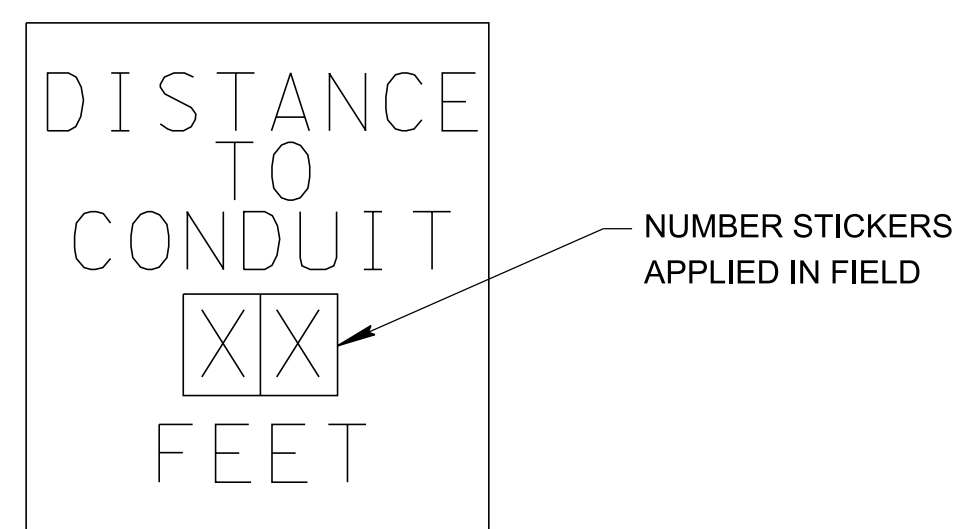
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F9



DETAIL VIEW OF CABLE MARKER
N.T.S.



TYPICAL INSTALLATION OF CABLE MARKER
N.T.S.



PRE-PRINTED DISTANCE LABEL

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, WITHIN 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.

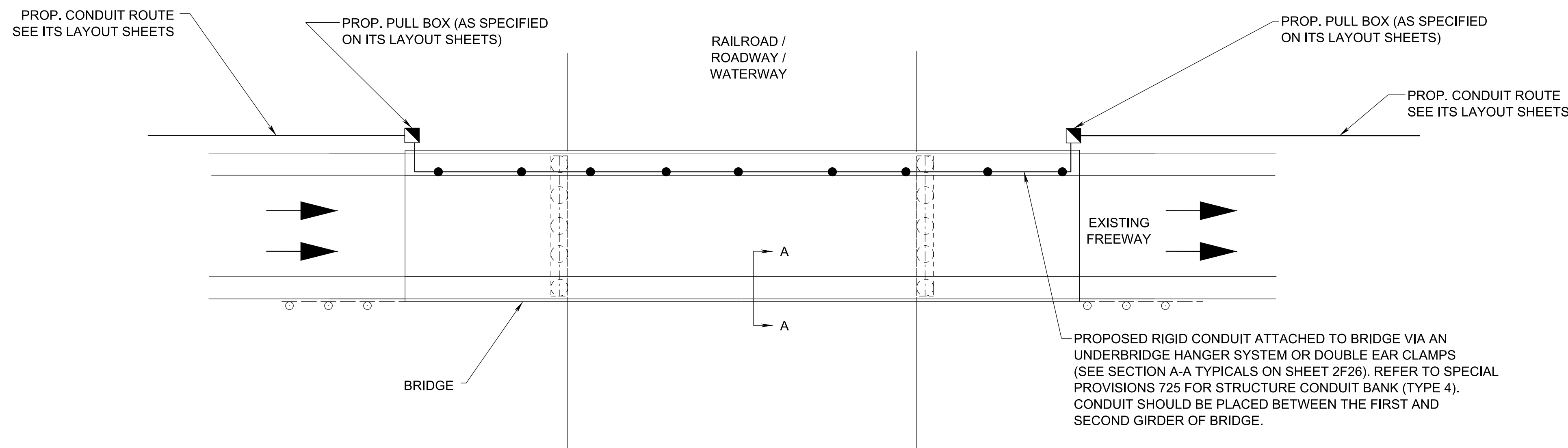
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PLANS

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ITS
TYPICAL CABLE
MARKER
DETAILS

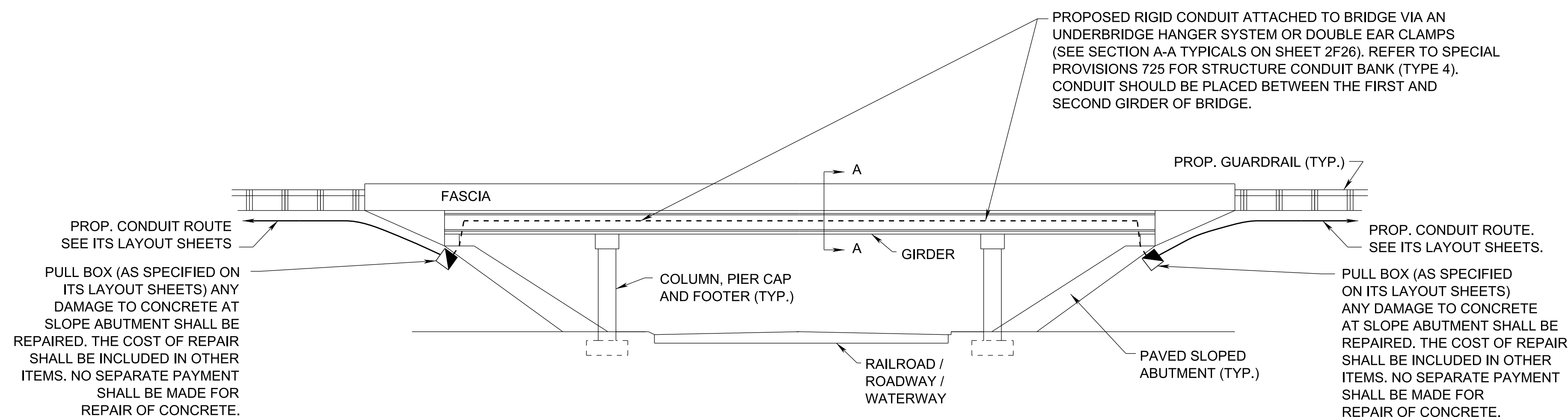
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F10



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:

- SEE ITS LAYOUT SHEETS FOR BRIDGE CROSSING LOCATIONS.
- 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.
- ATTACHMENTS TO BE APPROXIMATELY CENTERED IN AN EXTERIOR GIRDER BAY EXCEPT FOR REINFORCED CONCRETE HOLLOW BOX STRUCTURES.
- ALL UTILITY CONDUIT, HANGERS, BRACKETS, ETC. MUST BE ABOVE THE LOW POINT OF EACH SUPERSTRUCTURE.
- NO WELDING OR ATTACHMENTS TO STRUCTURAL STEEL ARE PERMITTED.
- 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.
- ALL EXPOSED CONDUIT SHALL BE RIGID. SEE SPECIAL PROVISIONS 725 FOR RIGID CONDUIT OPTIONS.
- 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.
- ALL BRIDGE ATTACHMENTS NEED TO BE APPROVED BY TDOT DIVISION OF STRUCTURES AND SHOWN ON AS-BUILD BRIDGE DRAWINGS.
- 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.
- 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.

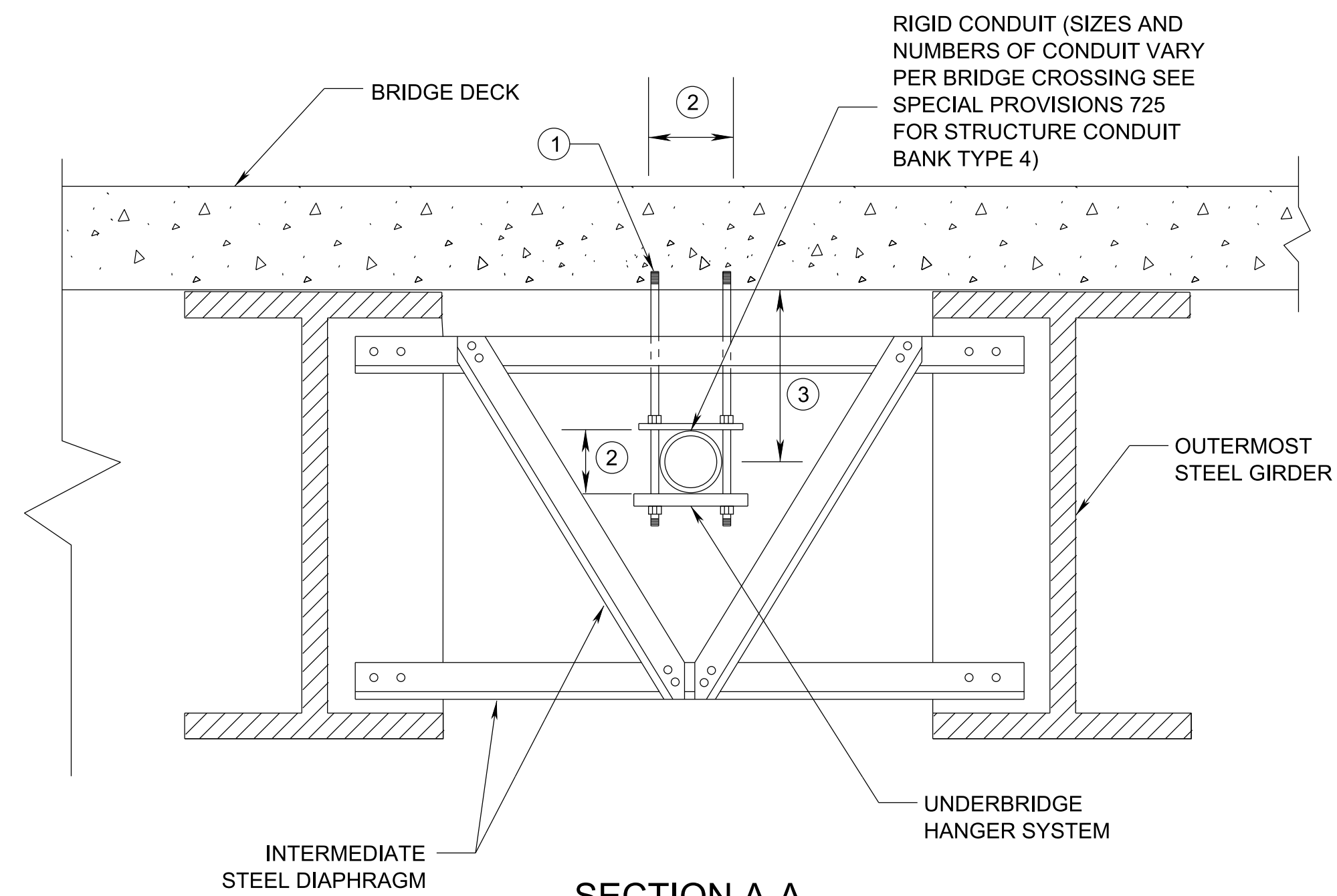
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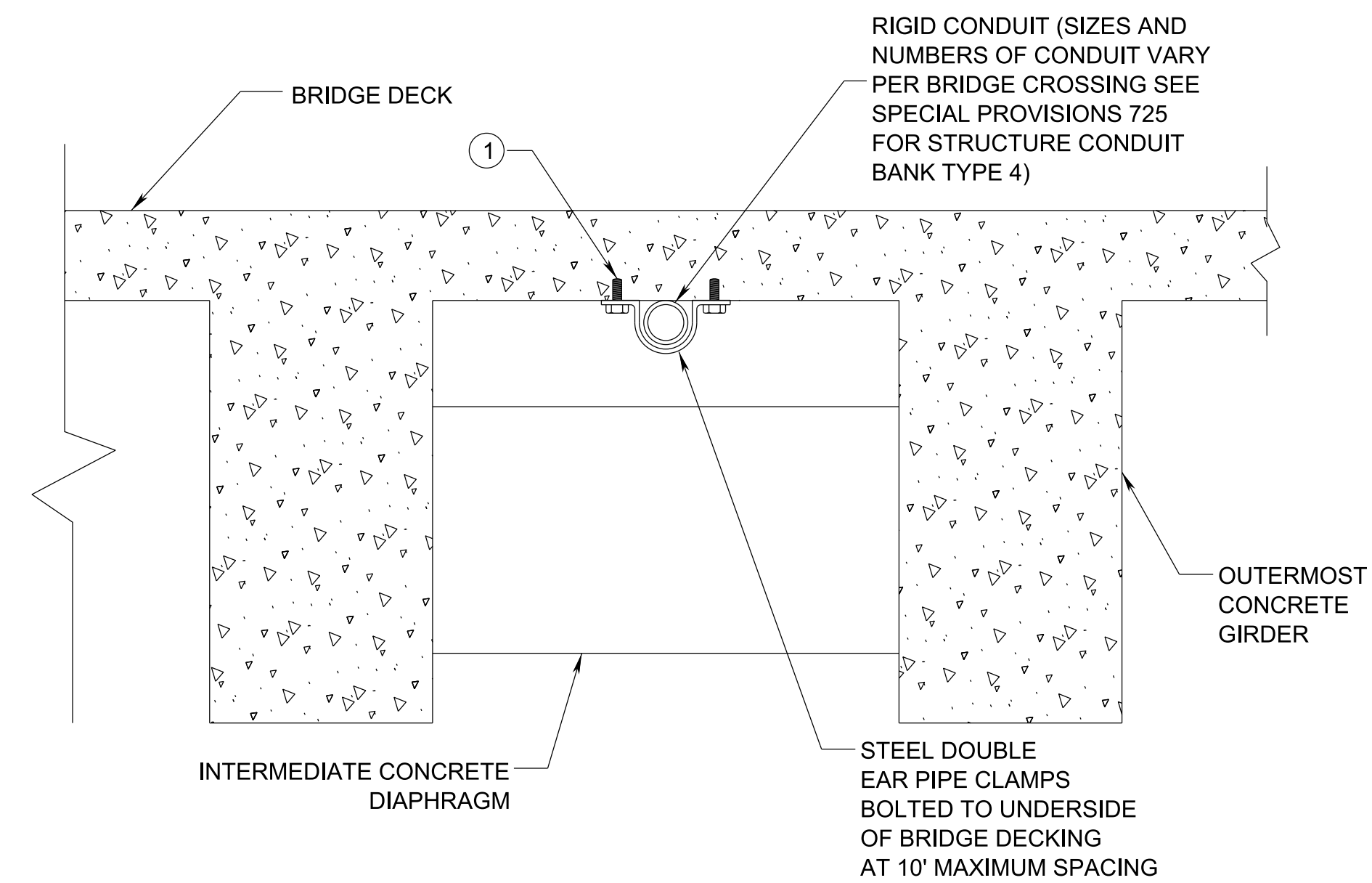
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DEPARTMENT OF TRANSPORTATION

**TYPICAL BRIDGE
ATTACHMENT
DETAILS**

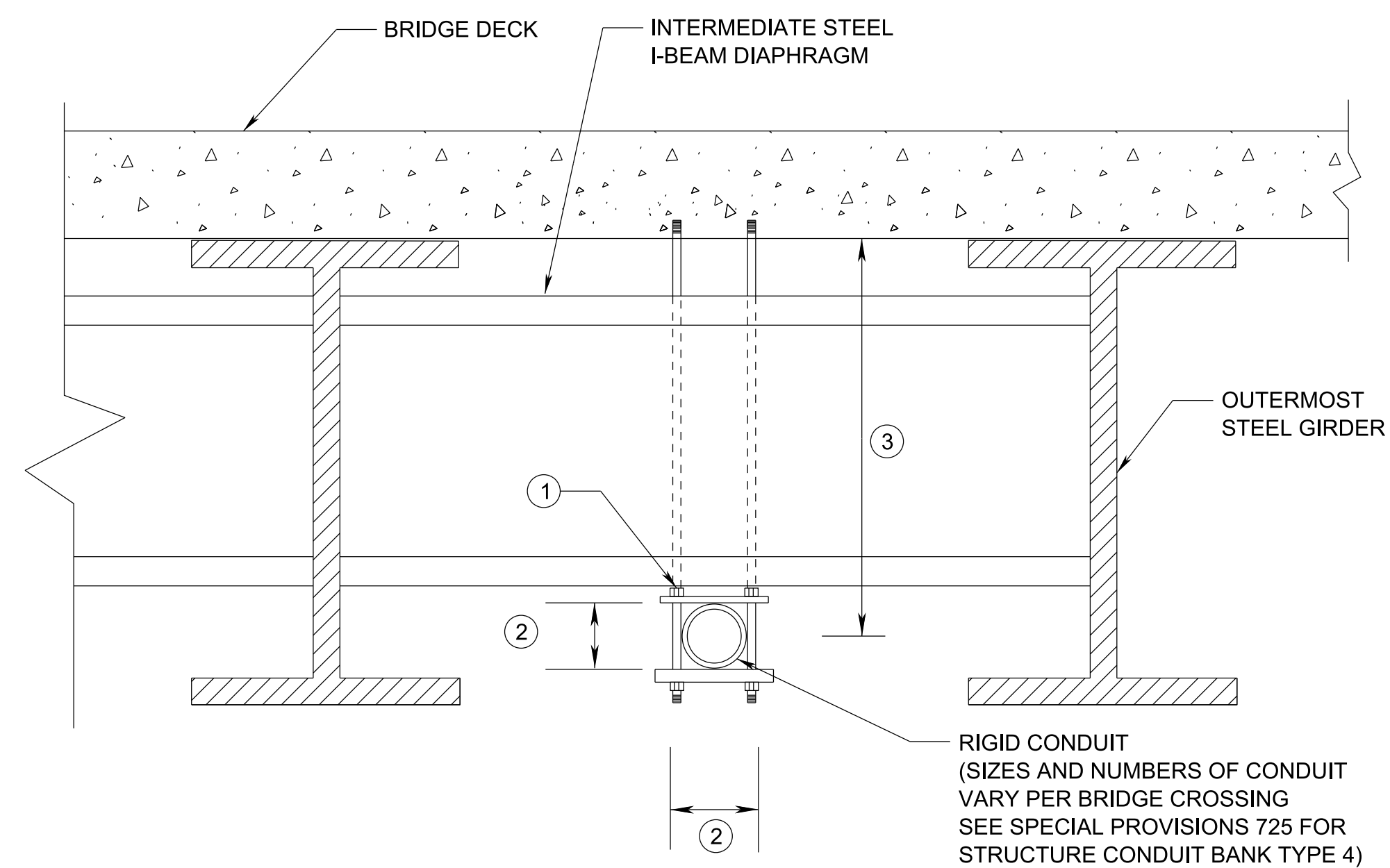
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	2F11



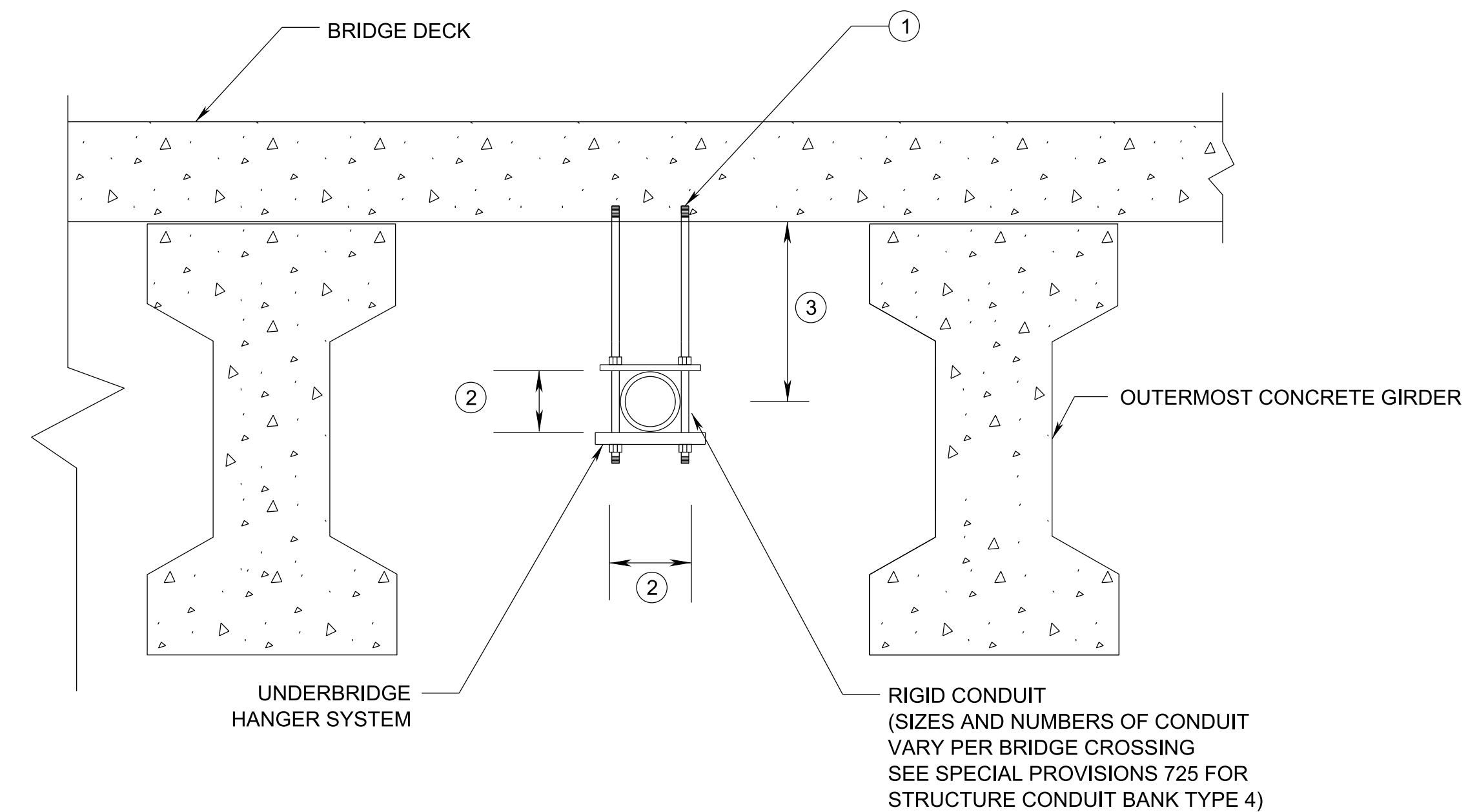
SECTION A-A
TYPICAL 1
N.T.S.



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 CAST-IN-PLACE CONCRETE INSERTS ONLY. ATTACHMENT BY DRILLING AND EPOXY IS NOT ALLOWED. 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.

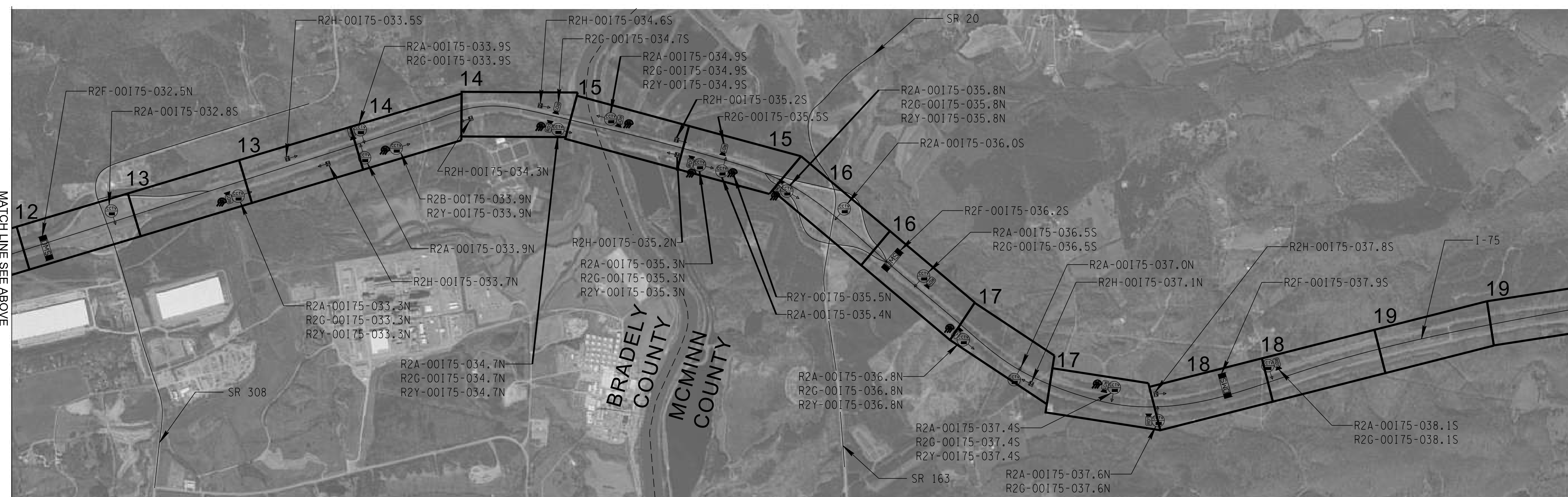
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**TYPICAL BRIDGE
ATTACHMENT
DETAILS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	4



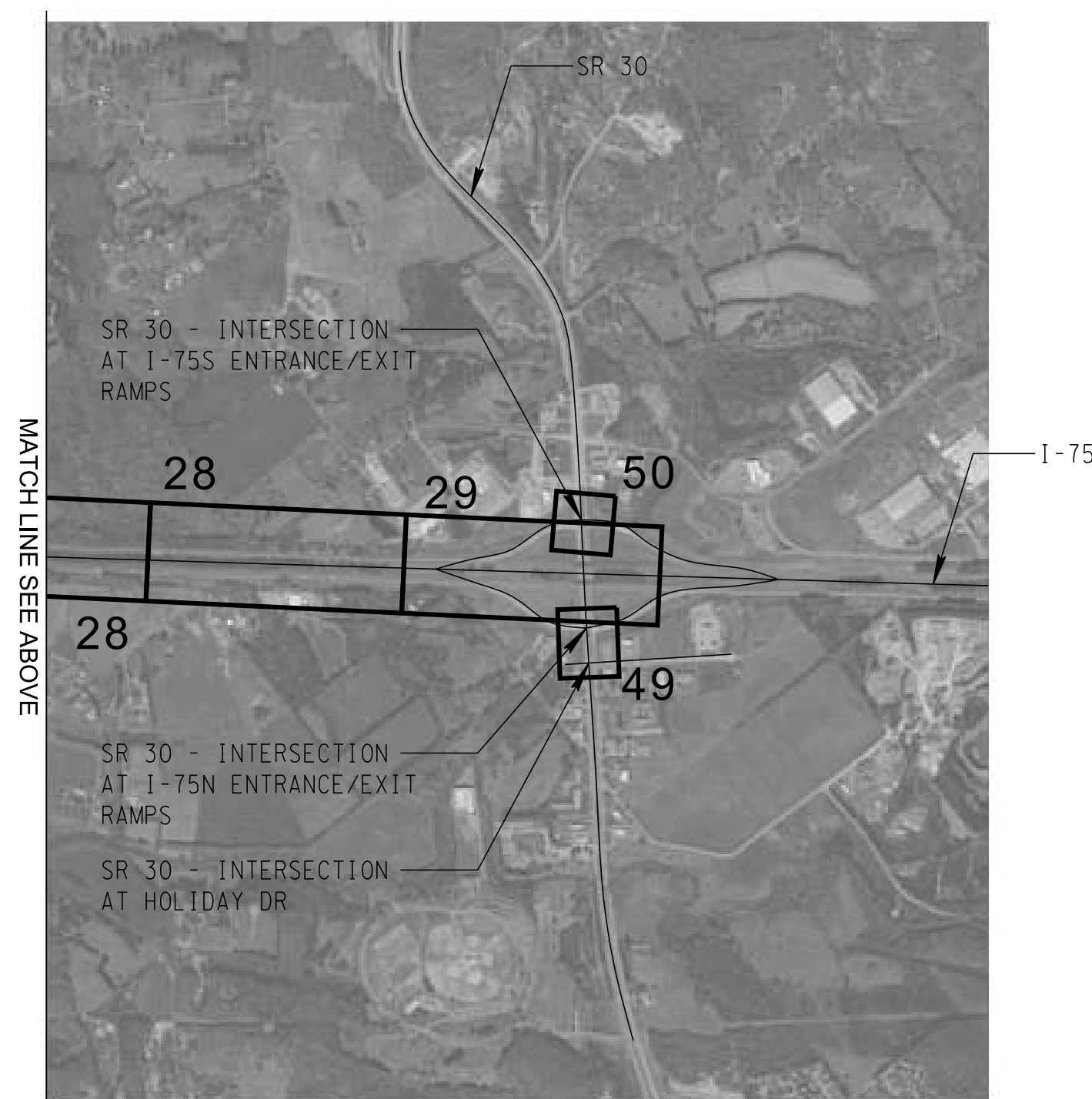
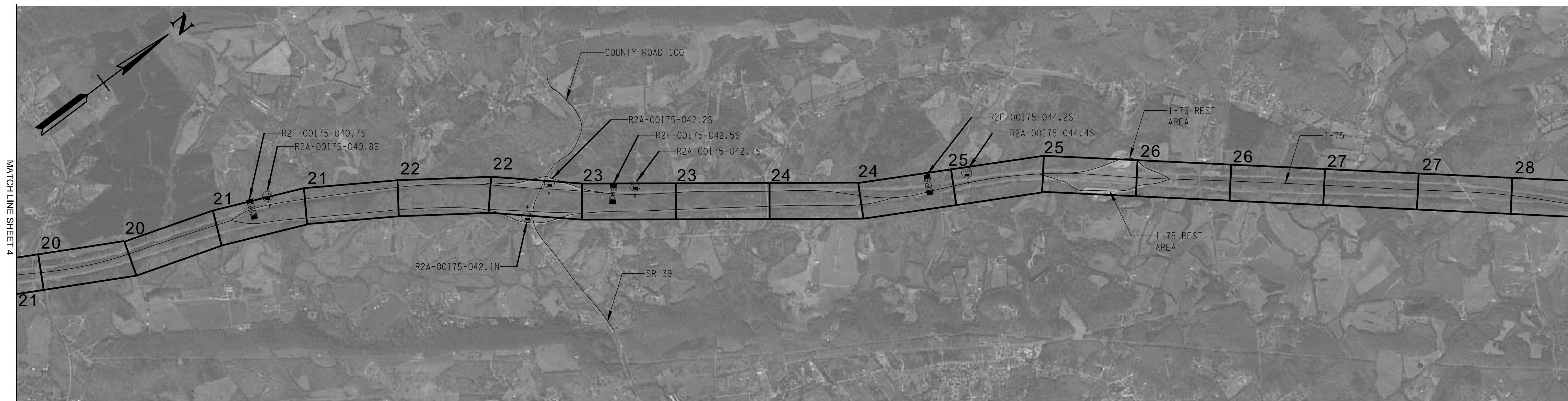
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**SHEET KEY - I-75
BRADLEY AND
MCMINN COUNTIES
SCALE 1"=1500'**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	4A



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PLANS

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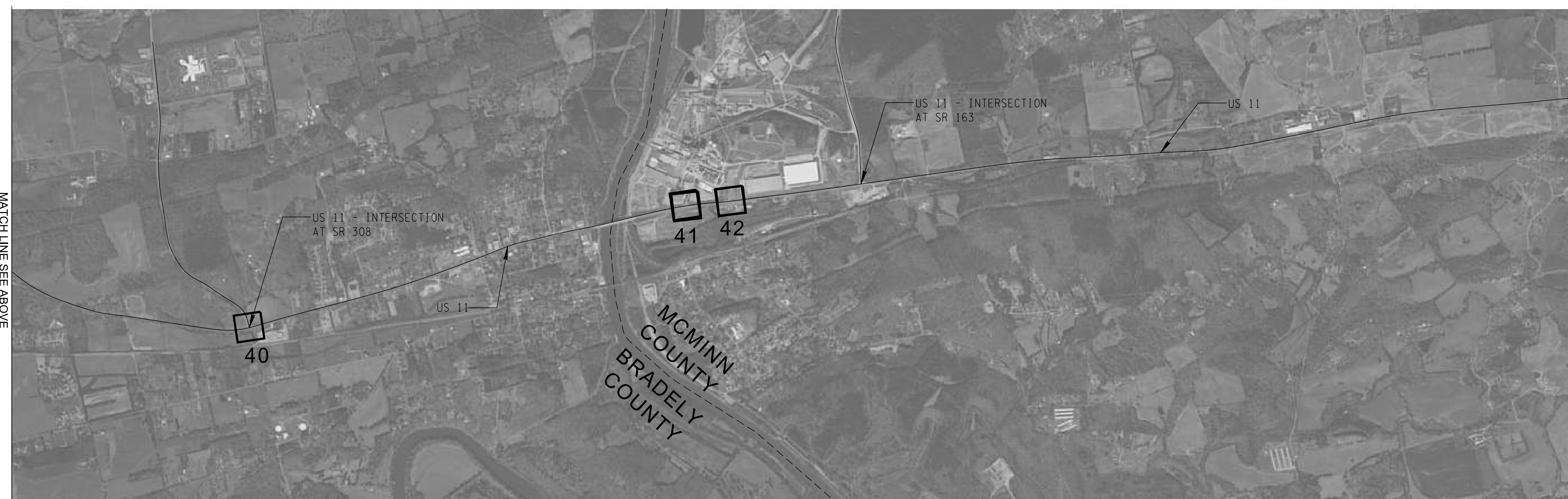
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET KEY - I-75
MCMINN
COUNTY
SCALE 1"=1500'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	4B



MATCH LINE SEE BELOW



MATCH LINE SEE ABOVE

MATCH LINE SHEET 4C

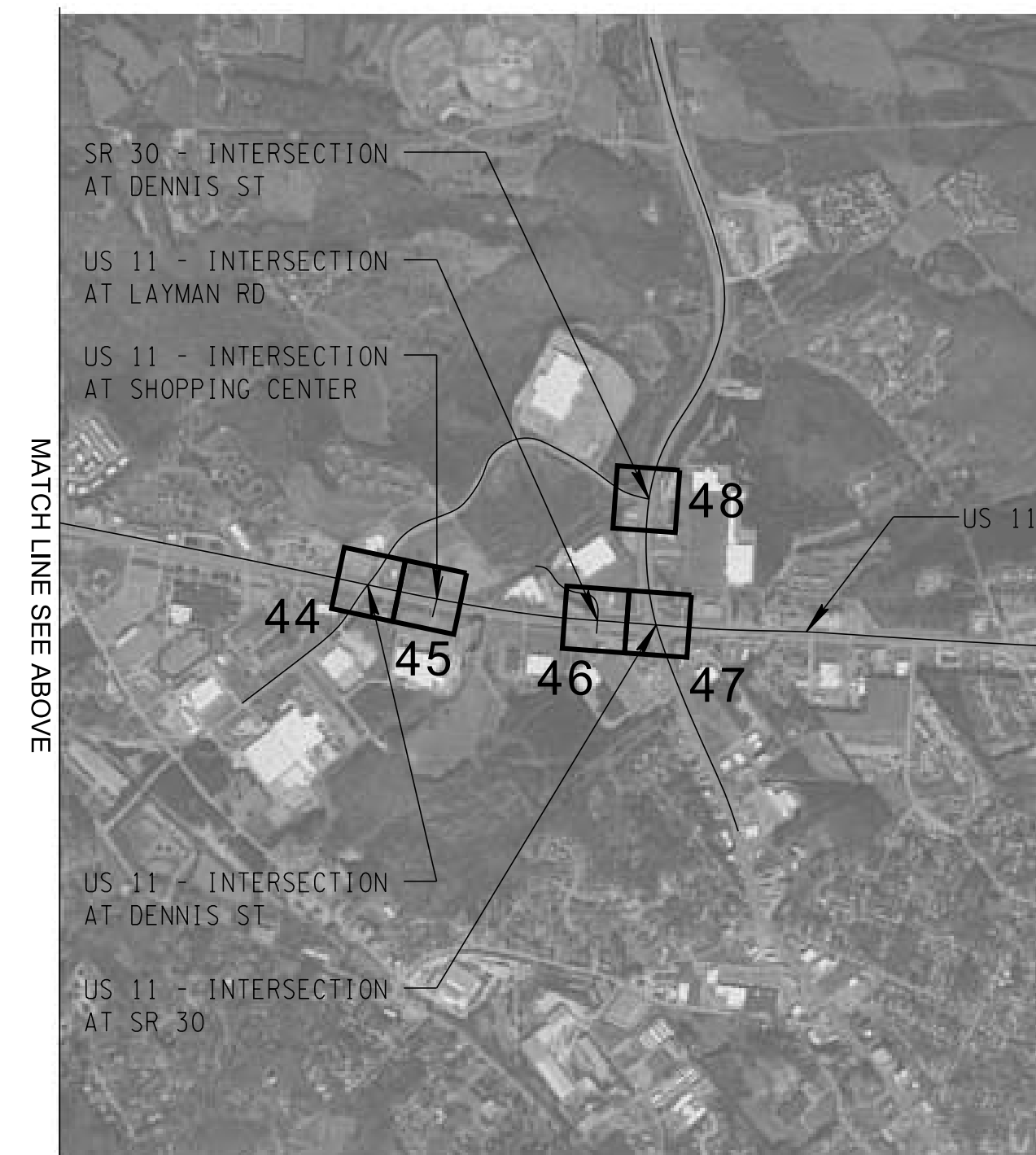
PRELIMINARY
PLANS

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SHEET KEY - US 11
BRADLEY AND
MCMINN COUNTIES
SCALE 1"=1500'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	4C



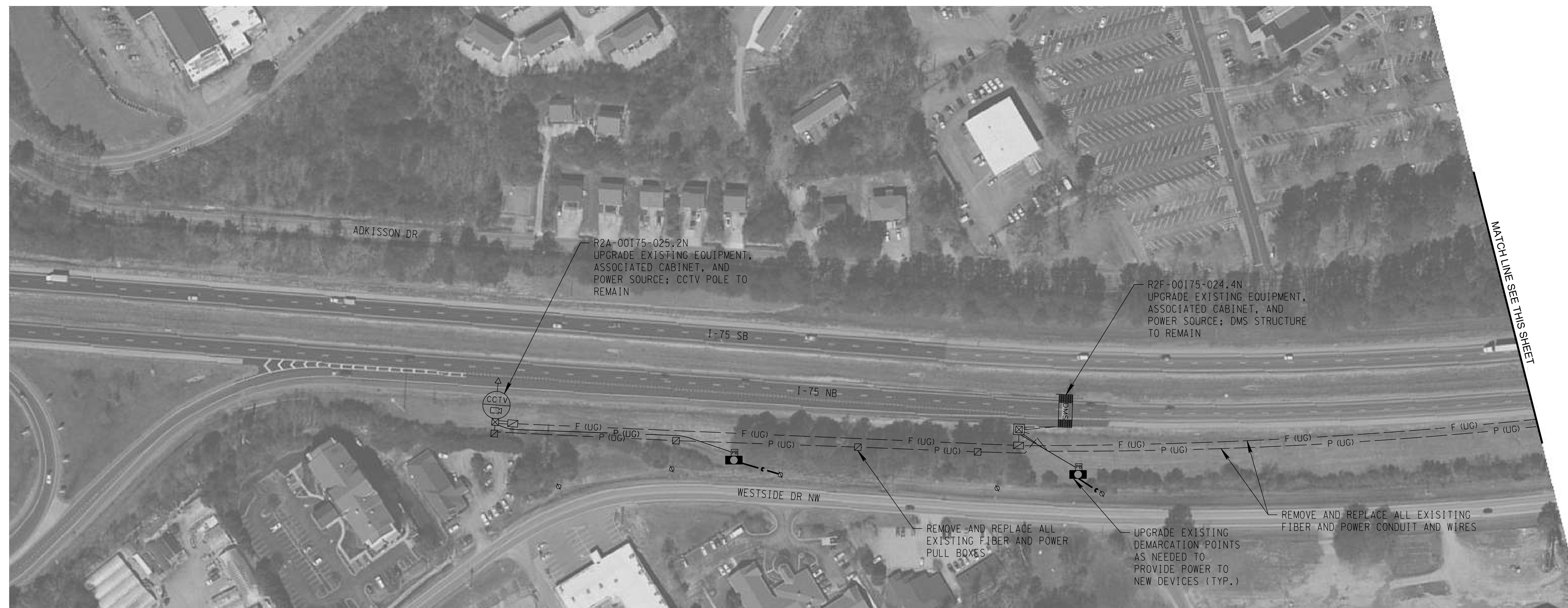
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SHEET KEY - US 11
MCMINN
COUNTY
SCALE 1"=1500'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	5



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	6



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
I-75

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	7



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION**

ITS LAYOUT
I-75

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	8



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
I-75

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	9



**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

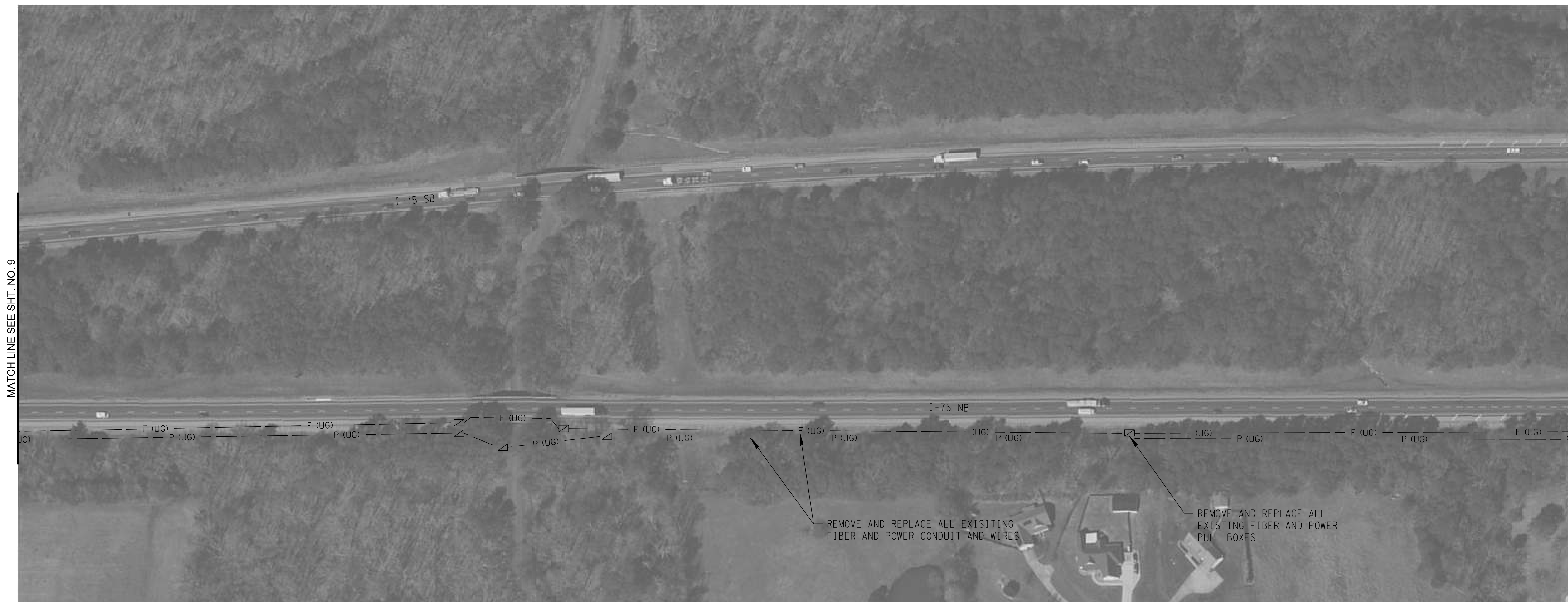
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MATCH LINE SEE THIS SHEET

MATCH LINE SEE THIS SHEET

MATCH LINE SEE SHT. NO. 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	10



**PRELIMINARY
PLANS**

SEALED BY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

MATCH LINE SEE SHT. NO. 9

MATCH LINE SEE THIS SHEET

MATCH LINE SEE THIS SHEET

MATCH LINE SEE SHT. NO. 11

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	11



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
I-75

SCALE: 1"=100'

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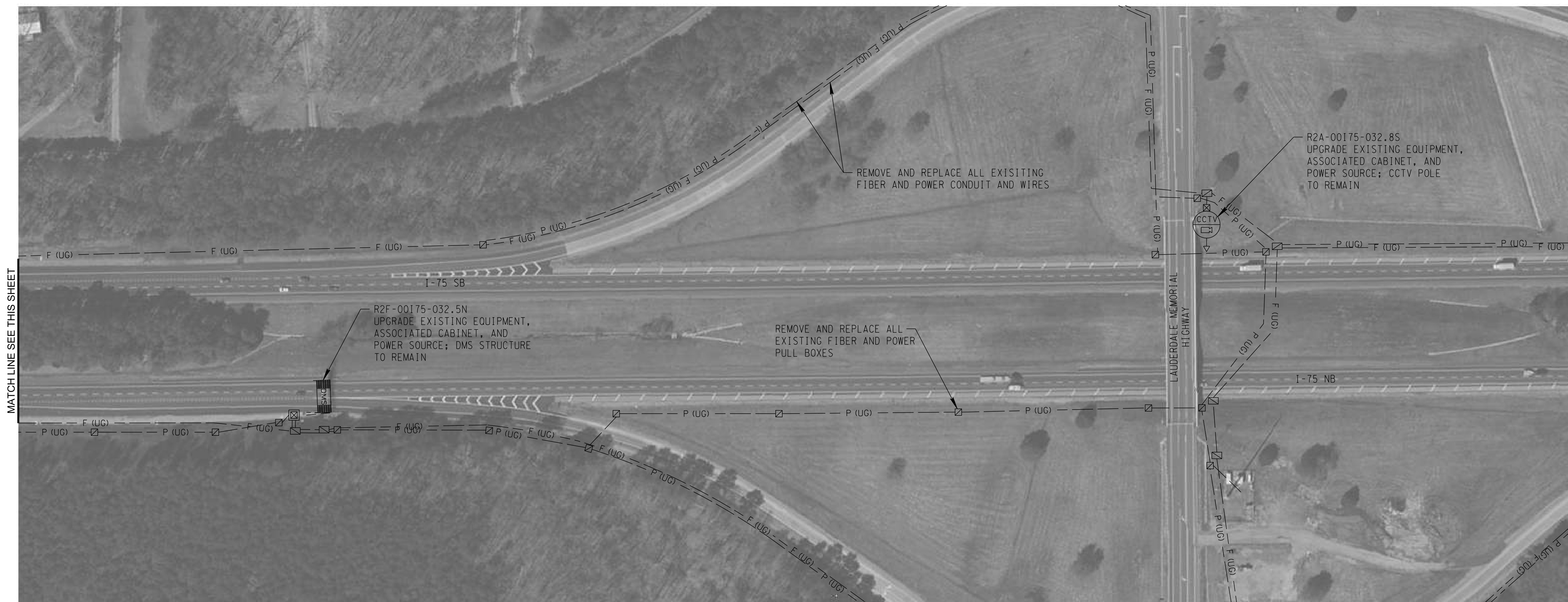
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MATCH LINE SEE THIS SHEET

MATCH LINE SEE SHT. NO. 12

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	12



PRELIMINARY
PLANS

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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	13



**PRELIMINARY
PLANS**

SEALED BY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	14



**PRELIMINARY
PLANS**

SEALED BY

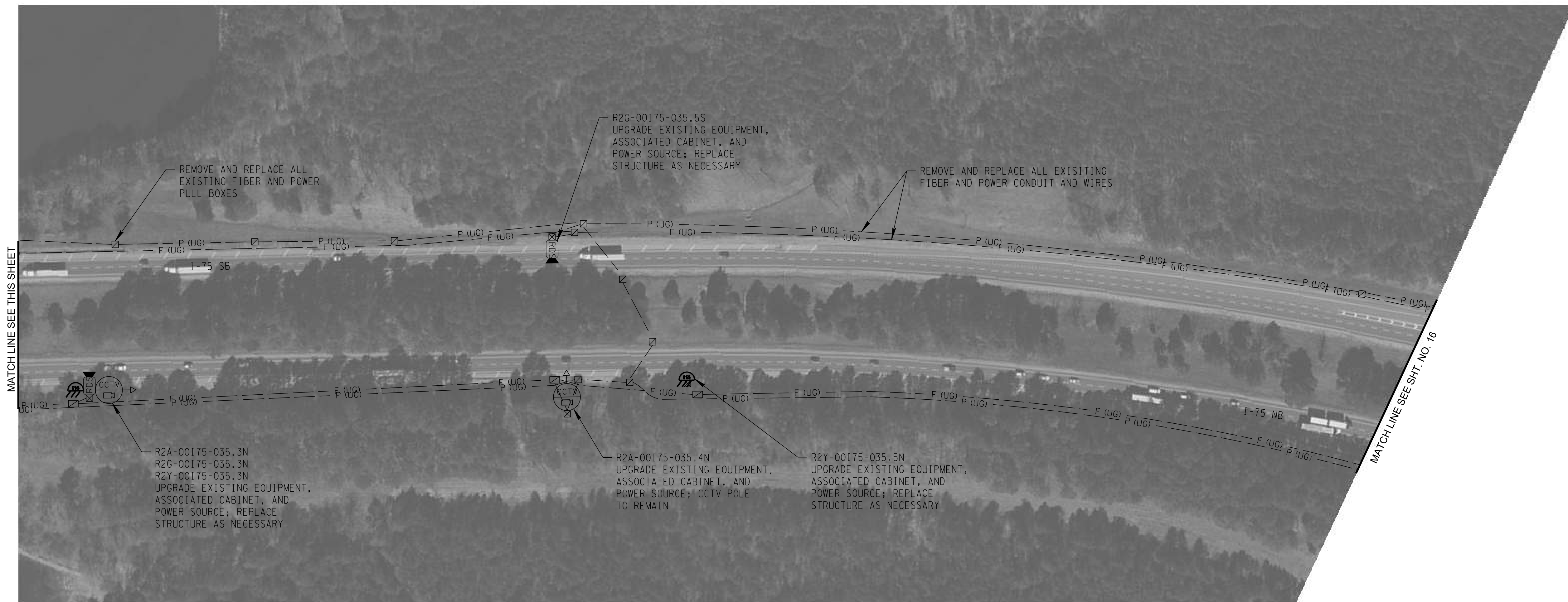
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	15



PRELIMINARY
PLANS

SEALED BY

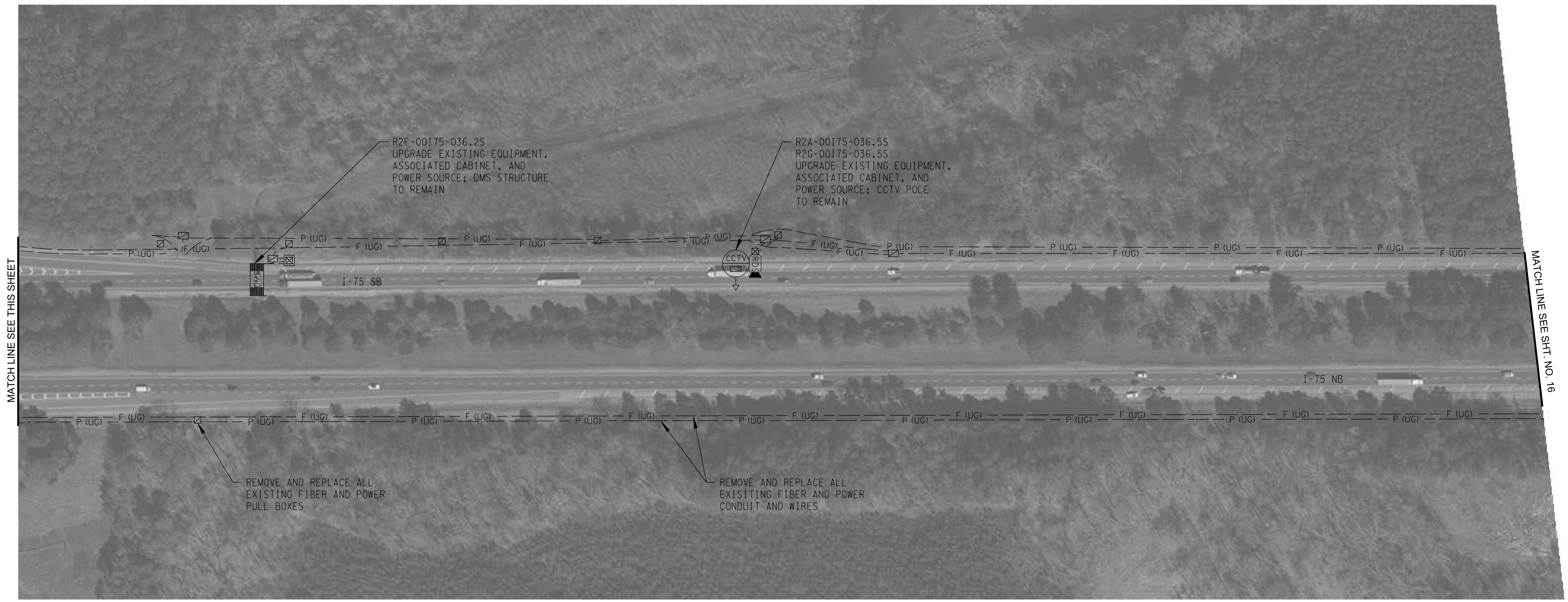
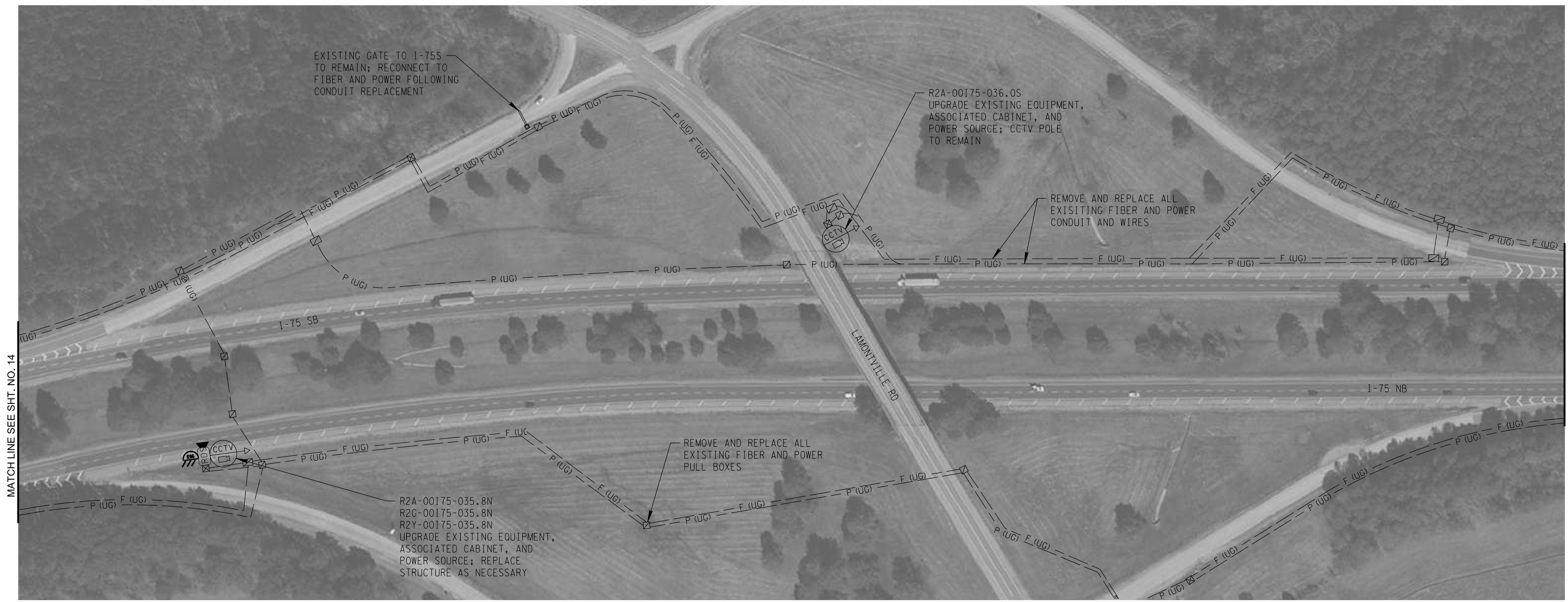
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
I-75

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	16



MATCH LINE SEE THIS SHEET

MATCH LINE SEE SHT. NO. 16

PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
I-75

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	17



**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	18



**PRELIMINARY
PLANS**

SEALED BY

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	19



**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	20



**PRELIMINARY
PLANS**

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**ITS LAYOUT
I-75**

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	21



**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

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MATCH LINE SEE THIS SHEET

MATCH LINE SEE SHT. NO. 22

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	22



**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	23



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION

ITS LAYOUT
I-75

SCALE: 1"=100'

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MATCH LINE SEE SHT. NO. 22

MATCH LINE SEE THIS SHEET

MATCH LINE SEE THIS SHEET

MATCH LINE SEE SHT. NO. 24

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	24



**PRELIMINARY
PLANS**

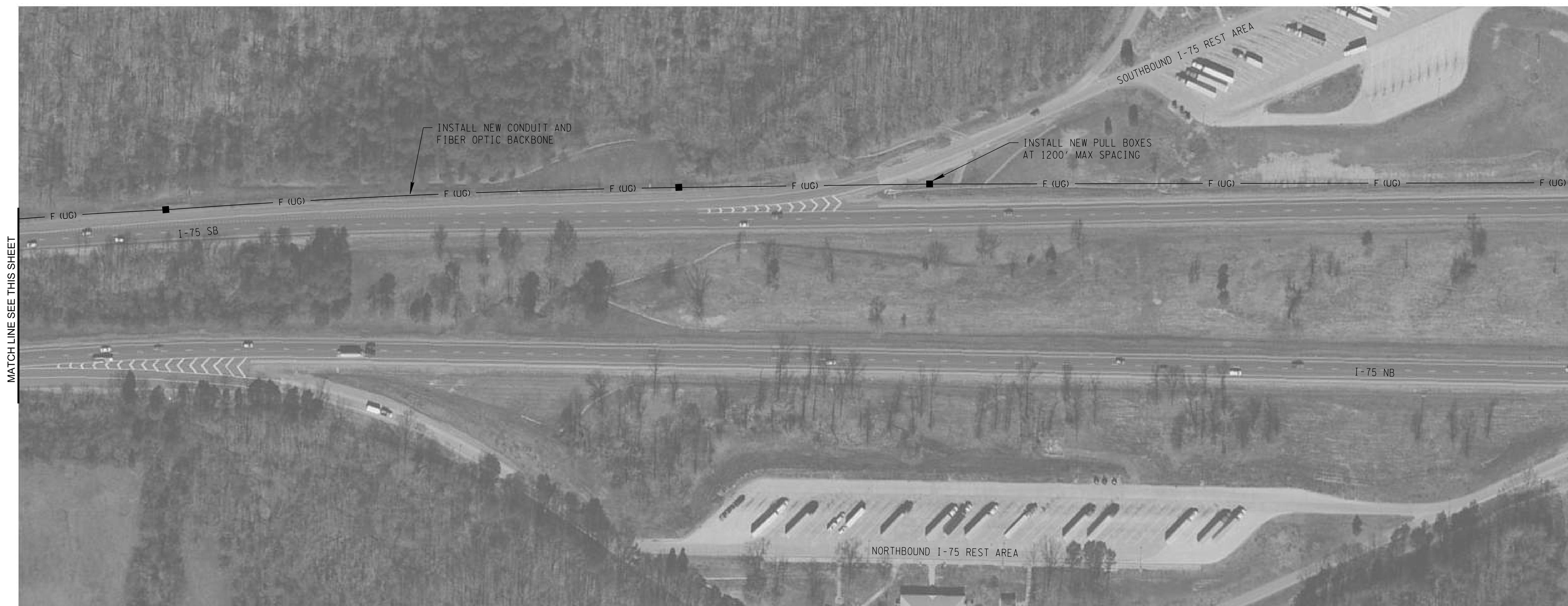
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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	25



**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	26



MATCH LINE SEE SHT. NO. 25

MATCH LINE SEE THIS SHEET



MATCH LINE SEE THIS SHEET

MATCH LINE SEE SHT. NO. 27

**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	27



**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**

**ITS LAYOUT
I-75**

SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	28



**PRELIMINARY
PLANS**

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**ITS LAYOUT
I-75**

 SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2024	99113-4946-04	29



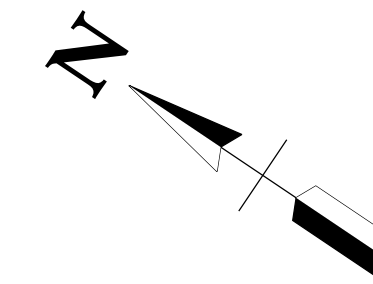
MATCH LINE SEE SHT. NO. 28

PRELIMINARY PLANS

SEALED BY

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ITS LAYOUT I-75
SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	30

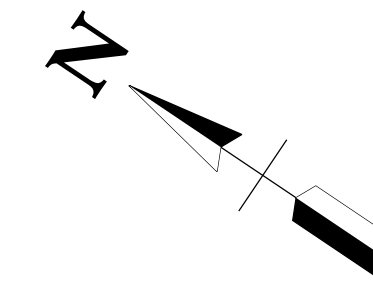


**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**
**SIGNAL UPGRADES
SR 60 AT I-75N
ENTRANCE/EXIT RAMPS**
 SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	31



PRELIMINARY
PLANS

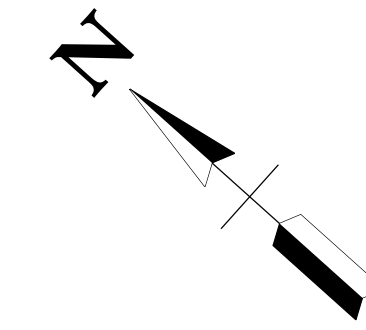
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DEPARTMENT OF TRANSPORTATION

SIGNAL UPGRADES
SR 60 AT GEORGETOWN
RD NW

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	32



PRELIMINARY
PLANS

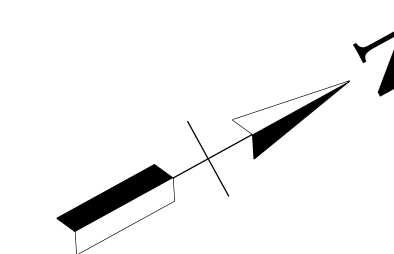
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
SR 60 AT PEERLESS
RD NW**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	33



**PRELIMINARY
PLANS**

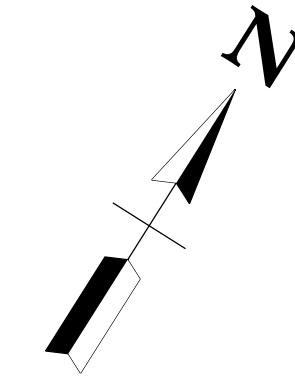
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT SR 60**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	34



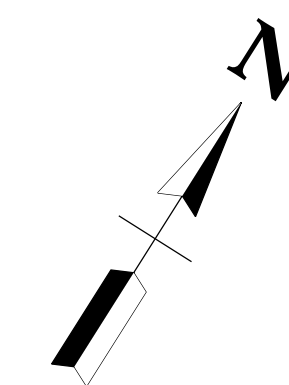
PRELIMINARY
PLANS

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SIGNAL UPGRADES
US 11 AT
HENDERSON AVE NW
SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	35



PRELIMINARY
PLANS

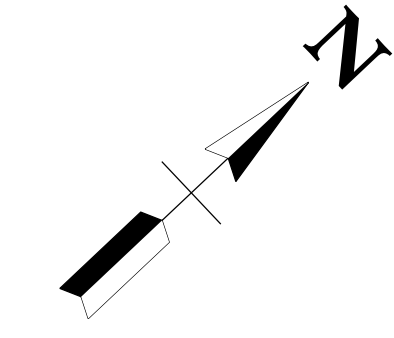
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SIGNAL UPGRADES
US 11 AT OCOEE
CROSSING WAY

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	36

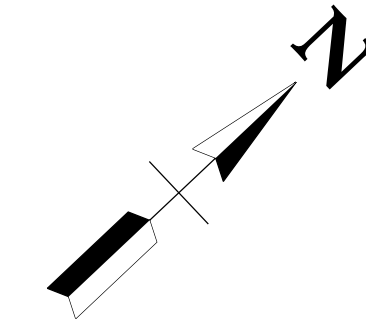


**PRELIMINARY
PLANS**

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DEPARTMENT OF TRANSPORTATION**
**SIGNAL UPGRADES
US 11 AT MOOSE CREEK
RD AND SR 74**
 SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	37



**PRELIMINARY
PLANS**

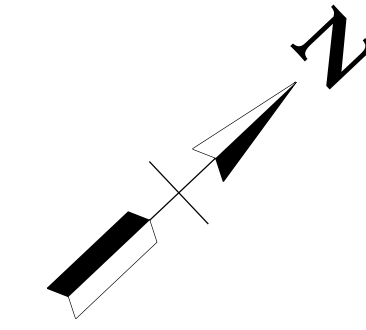
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT N OCOEE ST**

 SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	38



PRELIMINARY
PLANS

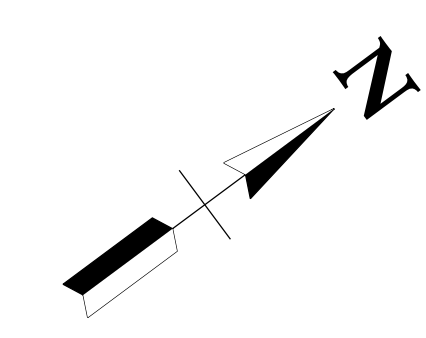
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT PAUL HUFF
PKWY NW**

SCALE: 1"=30'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	39

**PRELIMINARY
PLANS**

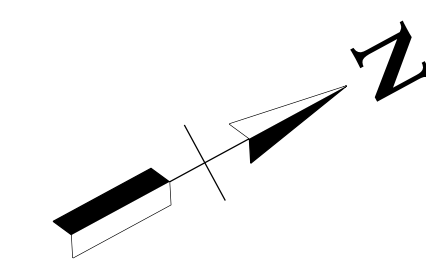
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT TASSO LN NE**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	40



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION**

SIGNAL UPGRADES
US 11 AT SR 308

SCALE: 1"=30'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	41



PRELIMINARY
PLANS

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DEPARTMENT OF TRANSPORTATION

SIGNAL UPGRADES
US 11 AT RESOLUTE
SOUTH ENTRANCE

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	42



PRELIMINARY
PLANS

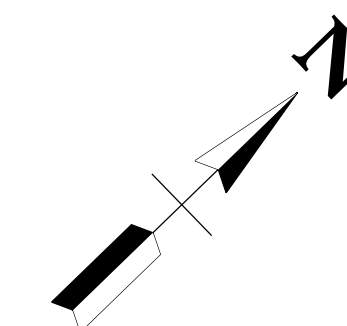
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SIGNAL UPGRADES
US 11 AT SR 163

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	43



**PRELIMINARY
PLANS**

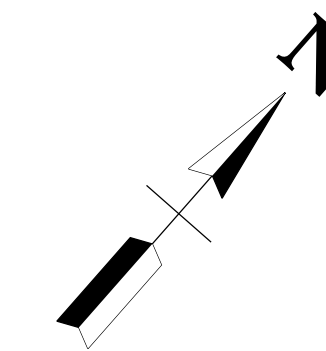
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT ROCKY
MOUNT RD**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	44



**PRELIMINARY
PLANS**

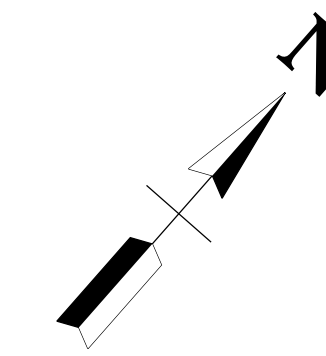
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT DENNIS ST**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	45

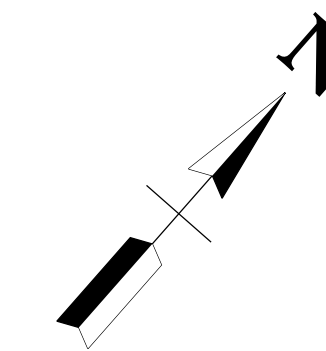


**PRELIMINARY
PLANS**

SEALED BY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**
**SIGNAL UPGRADES
US 11 AT SHOPPING
CENTER**
 SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	46



**PRELIMINARY
PLANS**

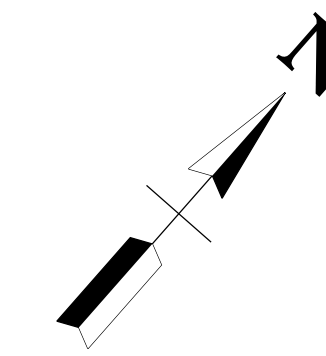
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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT LAYMAN RD**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	47



PRELIMINARY
PLANS

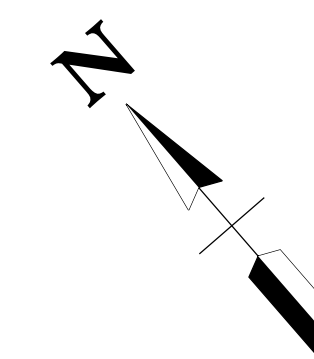
SEALED BY

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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
US 11 AT SR 30**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	48



**PRELIMINARY
PLANS**

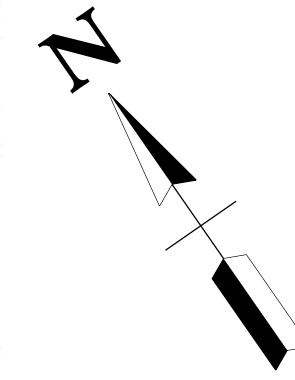
SEALED BY

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
SR 30 AT DENNIS ST**

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	49



**PRELIMINARY
PLANS**

SEALED BY

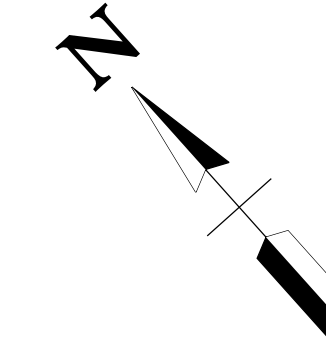
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
SR 30 AT HOLIDAY DR
AND I-75N RAMPS**

SCALE: 1"=30'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2024	99113-4946-04	50

**PRELIMINARY
PLANS**

SEALED BY

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DEPARTMENT OF TRANSPORTATION**

**SIGNAL UPGRADES
SR 30 AT I-75S RAMPS**

 SCALE: 1"=30'