

2/21/2025 2:12:45 PM
M:\Reg 2 ROW Utilities\Relocation Projects\CUMBERLAND\124053.00 BR-STP-24(69) BR OV OBED\Filenet\Construction Plans\U1 Sheets\U1-1 Ch86new.dgn

Index Of Sheets	
SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITIES OWNERS, GENERAL NOTES AND UTILITY SHEETS	U1-1 TO U1-4
CHARTER RELOCATION PLANS	U2-1 TO U2-5
COGENT RELOCATION PLANS	U3-1 TO U3-3
CROSSVILLE WATER RELOCATION PLANS	U4-1 TO U4-8
CROSSVILLE SEWER RELOCATION PLANS	U5-1 TO U5-6
MIDDLE TN NATURAL GAS RELOCATION PLANS	U6-3 TO U6-4
VOLUNTEER ELECTRIC COOPERATIVE RELOCATION PLANS	U8-1 TO U8-3
FRONTIER COMMUNICATIONS RELOCATION PLANS	NOT IN CONTRACT - MOVE AFTER VEC POLES
VOLFIRST/BEN LOMAND RELOCATION PLANS	NOT IN CONTRACT - MOVE AFTER VEC POLES

NOTE: SHEET U1-3 IS NOT USED

NOTE: SERIES U7 IS NOT USED

NOTE: FRONTIER AND VOLFIRST/BEN LOMAND ARE NOT IN-CONTRACT AND WILL NEED TO BE NOTIFIED ONCE NEW ELECTRIC POLES ARE IN PLACE AND READY FOR THEM TO RELOCATE TO; SEE SPECIAL NOTES

SPECIAL NOTES

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

CONTRACTOR SHALL GIVE THIRTY (30) DAYS NOTICE TO FRONTIER AND VOLFIRST/BEN LOMAND WHEN ELECTRIC POLES ARE IN PLACE AND READY FOR FRONTIER AND VOLFIRST/BEN LOMAND TO PERFORM ITS RELOCATION. IF THE RELOCATION IS NOT COMPLETED WITHIN SIXTY (60) DAYS AFTER NOTIFICATION, TDOT WILL BEGIN THE FINING PROCESS WITH FRONTIER AND VOLFIRST/BEN LOMAND FOR EACH DAY AFTER THE EXPIRATION OF THE SCHEDULE.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

CUMBERLAND COUNTY

STATE ROUTE 24 (US-70N) BRIDGE OVER OBED RIVER, LM 15.37 IN CROSSVILLE (IA) (TMA)

UTILITY OWNERS AND CONTACTS:

<div>(MOVE-IN CONTRACT) COMMUNICATIONS</div> <div>CHARTER COMMUNICATIONS 851 S. WILLOW AVE, SUITE 206 COOKEVILLE, TN 38501</div> <div>MR. MORGAN WILCHER MORGAN.WILCHER@CHARTER.COM (931) 239-9222</div>	<div>(MOVE-IN CONTRACT) FIBER</div> <div>COGENT 1594 HWY 73 MARIANNA, FL 32448</div> <div>MR. CAMERON JERNIGAN CJERNIGAN@COGENTCO.COM (448) 234-3503</div>
<div>(MOVE-IN CONTRACT) WATER SEWER</div> <div>CITY OF CROSSVILLE 392 N. MAIN ST CROSSVILLE, TN 38555</div> <div>MR. TIM BEGLEY TIM.BEGLEY@CROSSVILLETN.GOV (931) 456-6172</div>	<div>(MOVE-IN CONTRACT) GAS</div> <div>MIDDLE TENNESSEE NATURAL GAS PO BOX 670 SMITHVILLE, TN 37166</div> <div>MR. MATT STENNETT MSTENNETT@MTNG.COM (931) 754-3515</div>
<div>(MOVE-IN CONTRACT) ELECTRIC</div> <div>VOLUNTEER ENERGY COOPERATIVE PO BOX 277 DECATUR, TN 37322</div> <div>MR. MATTHEW TEAGUE MTEAGUE@VEC.ORG (423) 334-7040</div>	<div>(NO KNOWN CONFLICTS) ELECTRIC</div> <div>TENNESSEE VALLEY AUTHORITY 1101 MARKET ST, MR-4G CHATTANOOGA, TN 37402</div> <div>MR. STEPHEN WILLIAMS SEWILLIAMS@TVA.GOV (862) 255-6272</div>
<div>(NOT IN-CONTRACT MOVE AFTER VEC) COMMUNICATIONS</div> <div>FRONTIER COMMUNICATIONS 2104 W. EMORY RD POWELL, TN 37849</div> <div>MR. JIM HEATHERLY JAMES.HEATHERLY@FTR.COM (865) 236-5083</div>	<div>(NOT IN-CONTRACT MOVE AFTER VEC) FIBER</div> <div>VOLFIRST/BEN LOMAND PO BOX 670 MCMINNVILLE, TN 37111</div> <div>MR. RICHARD BOYD RICHARDBOYD@BENLOMAND.ORG (931) 668-6692</div>

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U1-1
		124053.00	

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY
REFERENCE

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$PE\$\$\$\$\$

ESTIMATED UTILITY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	18004-3227-04 QUANTITY
790-03.01	POLE 40FT CLASS 2 WOOD	EACH	3
790-03.03	POLE 40FT CLASS 4 WOOD	EACH	3
790-06.03	POLE 55FT CLASS 3 WOOD	EACH	1
790-22.13	1PH DEAD END 25KV	EACH	1
790-22.16	1PH DDE TANGENT 25KV	EACH	1
790-22.18	1PH SGL DEAD END XARM 25KV	EACH	1
790-26.02	3PH CROSSARM DBL LRG COND 25KV	EACH	1
790-26.17	3PH VERTICAL MED ANGLE 25KV	EACH	1
790-26.25	3PH CROSSARM DDE 25KV	EACH	1
790-26.26	3PH CROSSARM DEAD END 25KV	EACH	1
790-26.27	3PH CROSSARM DBL DDE 25KV	EACH	1
790-26.28	3PH DBL 10FT XARM DDE 25KV	EACH	1
790-26.29	3PH DDE UNBALANCED LOAD 25KV	EACH	1
790-26.38	3PH CROSSARM 10FT LRG COND 25KV	EACH	1
790-30.13	SECONDARY CONDUCTOR 2 AL TRIPLEX	LF	109
790-31.02	SERVICE ASSEMBLY -POLE TYPE	EACH	6
790-31.11	SERVICE CONDUCTOR 2 AL TRIPLEX	EACH	29
790-32.01	DOWN GUY - THROUGH BOLT TYPE	EACH	1
790-32.02	DOWN GUY - THROUGH BOLT TYPE HEAVY DUTY	EACH	1
790-32.06	DOWN GUY - INSULATED	EACH	13
790-32.23	GUY GUARD	EACH	13
790-33.18	ROCK ANCHOR GUY BOLT TYPE	EACH	13
790-40.03	OH COND 1/0 6/1 ACSR RAVEN	LF	3432
790-40.05	OH COND 3/0 6/1 ACSR PIGEON	LF	638
790-40.49	OH COND 795 37 AAC ARBUTUS	LF	1914
790-46.02	1PH TRANSFORMER CONV W/POLE MTD FUSE & LA	EACH	1
790-46.03	1PH TRANSFORMER CONV W/XARM MTD FUSE & LA	EACH	2
790-52.03	10KVA 1PH OH XFORMER 7.2KV 120/240	EACH	2
790-52.12	50KVA 1PH OH XFORMER 7.2KV DUAL VOLTAGE	EACH	1
790-59.06	GOAB SWITCH 25KV	EACH	1
790-69.09	GND-ASSY GND ROD WITH ALUMINUM	EACH	5
790-70.22	STREET LIGHT 70W LED	EACH	1
790-98.01	REMOVE WIRE	LF	6818
790-98.02	REMOVE POLES	EACH	9
790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS	EACH	56
791-01.04	4IN STEEL GAS MAIN	LF	465
791-04.22	HDD 4IN STEEL PIPE - UNCONSOLIDATED	LF	700
791-06.31	CONNECT TO 2IN EX. STL MAIN W/STOPPLE	EA	2
791-06.32	CONNECT TO 4IN EX STL MAIN W/ STOPPLE	EA	2
791-09.04	REGULATOR STATION	EA	1
793.07.23	FIBER OPTIC MAINTENANCE LOOP	EACH	1
793-03.03	10M STRAND	LF	277
793-04.01	RELASH/DELASH CABLE	LF	545
793-04.08	TRANSFER AERIAL CABLE	EACH	1
793-07.16	12-96 Fiber (Installation Only)	FT	1100
793-11.27	Hand Hole 36INX60INX30IN	EA	2
793-14.12	1 1/4" Inner Duct	FT	2200
793-16.04	Directional Bore 4 in/Flex Sleeve	FT	1100
793-98.01	REMOVE AERIAL CABLE AND WIRE	EACH	1
795.12.08	REMOVE WATER METER	EA	1
795-03.05	6IN P/V C WATER LINE	LF	400
795-03.07	10IN P/V C WATER LINE	LF	450
795-06.30	CUT/CAP EXISTING LINES (ALL SIZES)	EA	3
795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EA	1
795-07.10	10IN X 10IN TAPPING SLEEVE AND VALVE	EA	2
795-08.04	6IN GATE VALVE ASSEMBLY	EA	1
795-08.06	10IN GATE VALVE ASSEMBLY	EA	3

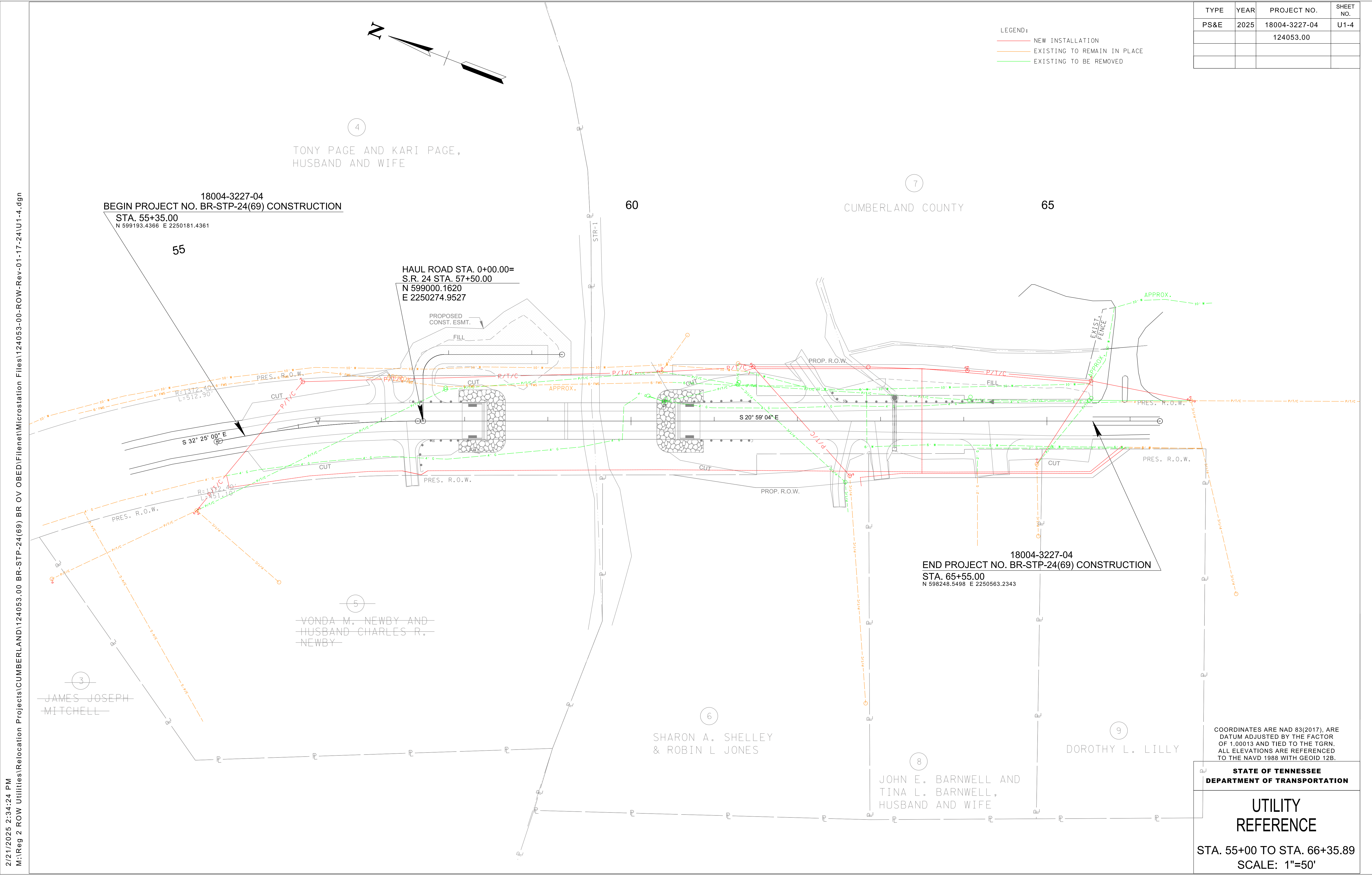
[illegible]

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3327-04	U1-2
		124053.00	

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
<h1 style="margin: 0;">UTILITY QUANTITIES</h1>

2/21/2025 2:34:24 PM
M:\Reg 2 ROW Utilities\Relocation Projects\CUMBERLAND\124053.00 BR-STP-24 (69) BR OV OBED\Files\Microstation Files\124053-00-ROW-Rev-01-17-24\U1-4.dgn



TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U1-4
		124053.00	

COORDINATES ARE NAD 83(2017), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00013 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**UTILITY
REFERENCE**

STA. 55+00 TO STA. 66+35.89
SCALE: 1"=50'

INDEX OF DRAWINGS

UX-01	TELECOMMUNICATIONS RELOCATION ESTIMATED QUANTITIES AND DRAWING INDEX
UX-02	TELECOMMUNICATIONS RELOCATION VICINITY MAP AND LEGEND
UX-03	TELECOMMUNICATIONS RELOCATION GENERAL NOTES
UX-04	TELECOMMUNICATIONS RELOCATION STA. 55+35 TO STA. 65+55
UX-05	TELECOMMUNICATIONS RELOCATION CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2024	18004-3227-84	U2-01

CUMBERLAND COUNTY
PIN 124053.00

REV 08-08-2025

UPDATED ITEM NUMBERS

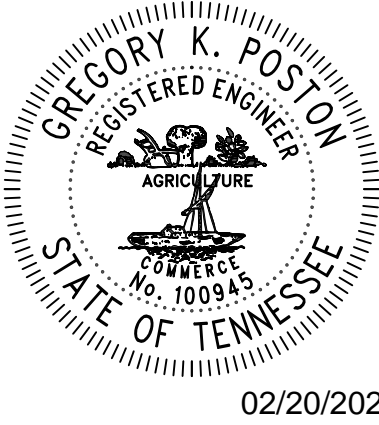
6

ESTIMATED QUANTITIES						
ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY	PERCENT UTILITY	PERCENT PROJECT
798-05.02	FIBER OPTIC CABLE ENCLOSURE	ENC	EACH	8	0%	100%
798-05.03	FIBER OPTIC CABLE SPLICE		EACH	8	0%	100%
798-05.07	3/8 IN HIGH STRENGTH STEEL STRAND	3/8" STRAND	L.F.	1260	0%	100%
798-06.04	FIBER OPTIC CABLE (12F)	12F	L.F.	1260	0%	100%
798-06.13	FIBER OPTIC CABLE (48F)	48F	L.F.	1260	0%	100%
798-06.11	FIBER OPTIC CABLE (96F)	96F	L.F.	2520	0%	100%
798-06.48	FIBER STORAGE LOOP	LOOP	EACH	8	0%	100%
798-09.01	REMOVE STEEL STRAND		L.F.	1236	0%	100%
798-09.03	REMOVE POLES, GUYS, ANCHORS		EACH	2	0%	100%
798-09.07	REMOVE FIBER OPTIC CABLE		L.F.	4997	0%	100%
798-09.08	REMOVE STRAND POLE FRAMING		EACH	6	0%	100%
798-11.31	POWER INSTALLED ANCHOR	E1-2	EACH	4	0%	100%
798-11.41	DOWNGUY - WRAP TYPE	F3	EACH	4	0%	100%
798-13.03	STRAND TANGENT ASSEMBLY	SC	EACH	2	0%	100%
798-13.04	STRAND ANGLE ASSEMBLY	CSC	EACH	2	0%	100%
798-13.07	STRAND DOUBLE DEADEND ASSEMBLY	DDE	EACH	3	0%	100%

FOOTNOTE 6:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL AND BONDING/GROUNDING.

UTILITY INFORMATION

Charter Communications, LLC
17851 S. Willow Ave., Suite 206
Cookeville, TN 38501
CONTACT: Morgan Wilcher
PHONE: 931-739-9222
EMAIL: morgan.wilcher@charter.com



JOB NUMBER: 29088.30		 <div>2095 LAKESIDE CENTRE WAY SUITE 120 KNOXVILLE, TENNESSEE 37922 (865) 521-6777 (866) 539-7192</div>
DESIGNED: MAS		
DRAWN: MAS		
CHECKED: BBG		
SCALE N.T.S	DATE 02.12.2025	

TELECOMMUNICATIONS RELOCATION
ESTIMATED QUANTITIES AND DRAWING INDEX

CUMBERLAND COUNTY

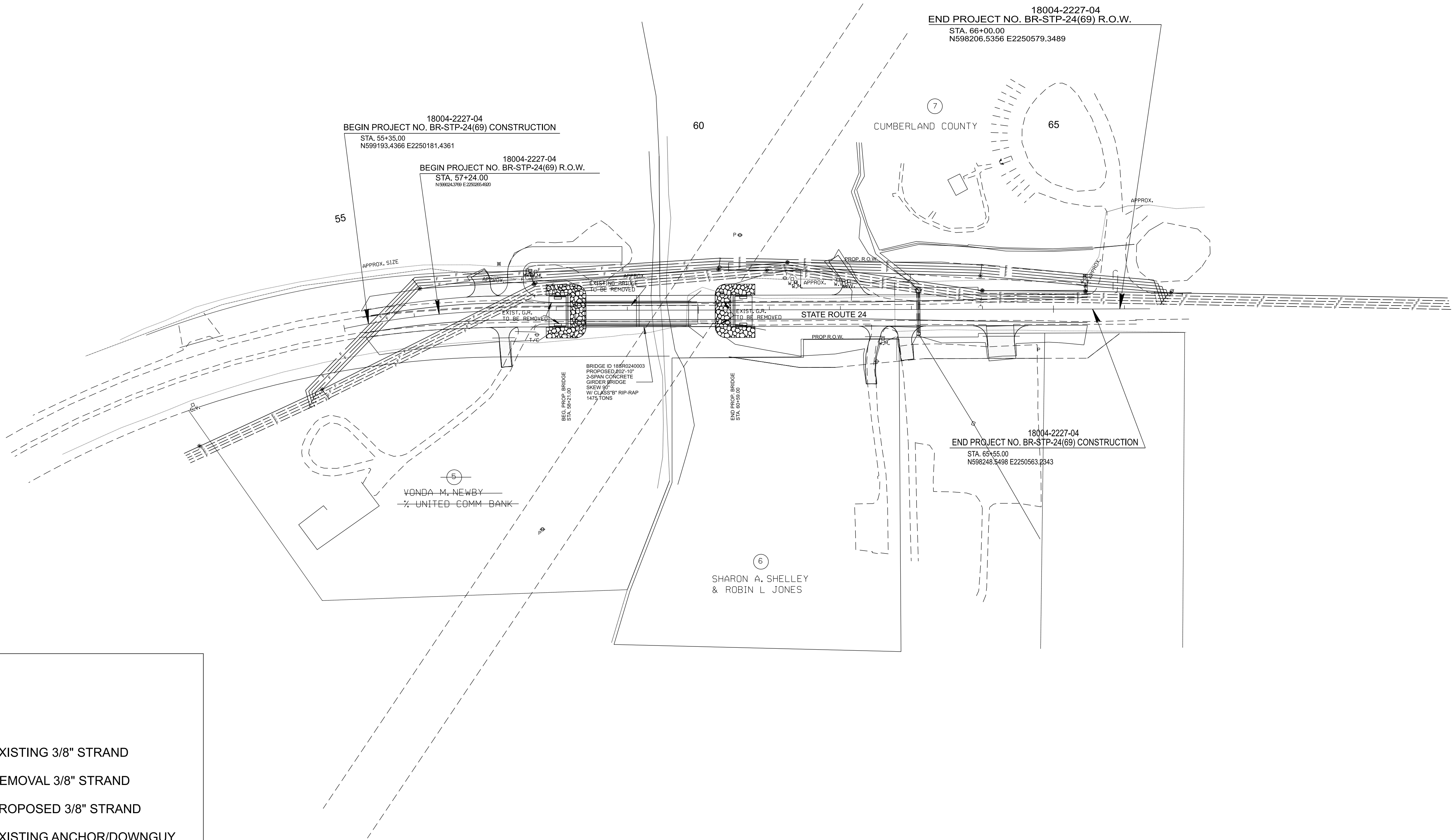
S.R. 24 (70 N)

BRIDGE OVER OBED RIVER.

L.M 15.37 IN CROSSVILLE (IA)

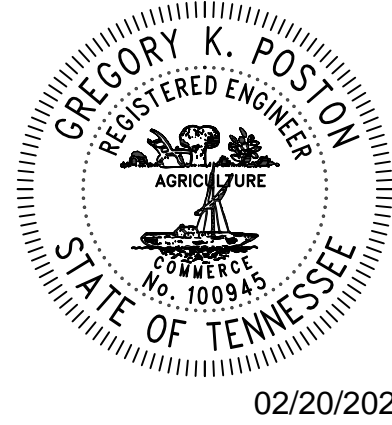
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-84	U2-02

CUMBERLAND COUNTY
PIN 124053.00



LEGEND

	EXISTING 3/8" STRAND
	REMOVAL 3/8" STRAND
	PROPOSED 3/8" STRAND
	EXISTING ANCHOR/DOWNGUY
	REMOVAL ANCHOR/DOWNGUY
	REMOVAL POLE
	EXISTING POLE
	EXISTING FIBER
	REMOVAL FIBER
	PROPOSED FIBER
	PROPOSED SPLICE



02/20/2025



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG

SCALE
N.T.S.

DATE
02.12.2025



TELECOMMUNICATIONS RELOCATION
VICINITY MAP AND LEGEND

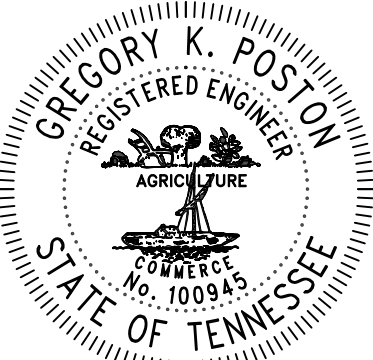
GENERAL CONSTRUCTION NOTES

1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE COMMUNICATION FACILITIES ALONG THIS PROJECT.
2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT ITS COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.
3. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.
4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING AROUND ENERGIZED ELECTRICAL LINES (e.g. RUBBER GLOVES INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).
5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.
6. IN GENERAL, THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.
7. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.
8. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.
9. THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S PROJECT REPRESENTATIVE USING TELEPHONE COMMUNICATIONS.
10. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113 "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.
11. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.
12. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.
13. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.
14. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.
15. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.
16. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".
17. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.
18. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.
19. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

20. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.
21. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.
22. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE FACILITIES IN ACCORDANCE WITH UTILITY OWNER SPECIFICATIONS.
23. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.
24. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.
25. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURRING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.
26. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.
27. ALL ACTIVE AND PASSIVE EQUIPMENT SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR.
28. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS, ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.
29. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.
30. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.
31. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.
32. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CABLE FOR THE PROJECT. ANY DAMAGE TO THE CABLE SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CABLES SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.
33. ANY CUSTOMER OUTAGES FOR CUTOVER TO NEW CABLES MUST BE COORDINATED WITH AND SCHEDULED BY UTILITY OWNER. SCHEDULED CUSTOMER OUTAGES REQUIRE A MINIMUM OF 14 DAYS FOR NOTIFICATION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2024	18004-3227-84	U2-03

CUMBERLAND COUNTY
PIN 124053.00



02/20/2025

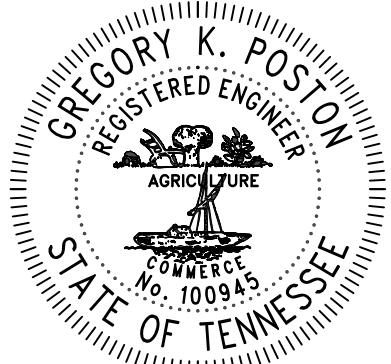
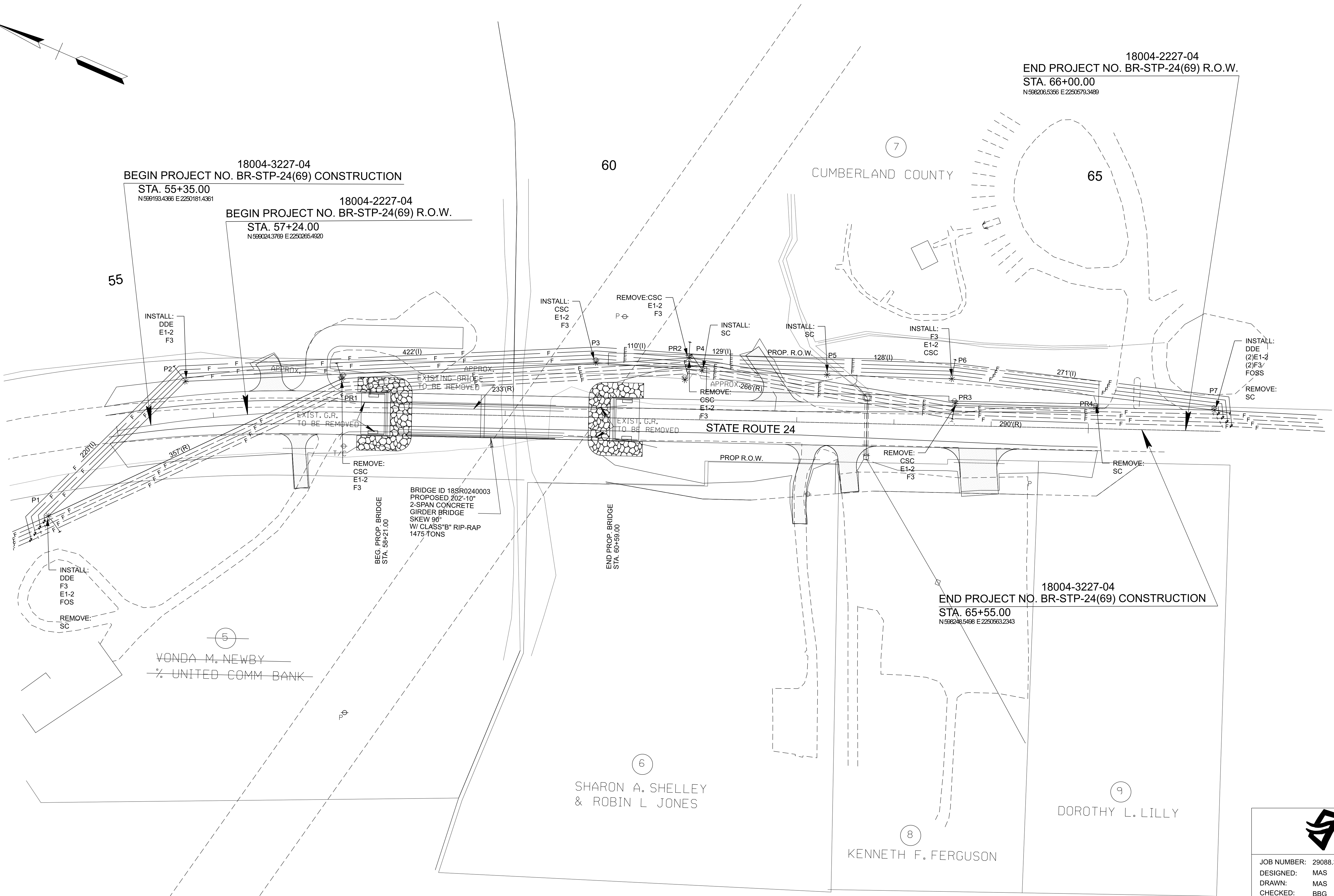
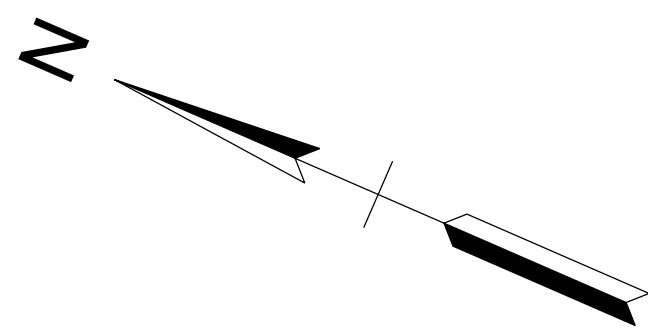


JOB NUMBER: 29088.30		 <div>2095 LAKESIDE CENTRE WAY SUITE 120 KNOXVILLE, TENNESSEE 37922 (865) 521-6777 (865) 539-7192</div>
DESIGNED: MAS		
DRAWN: MAS		
CHECKED: BBG		
SCALE N.T.S	DATE 07.12.2024	

TELECOMMUNICATIONS RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U2-04

CUMBERLAND COUNTY
PIN 124053.00



02/20/2025



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG

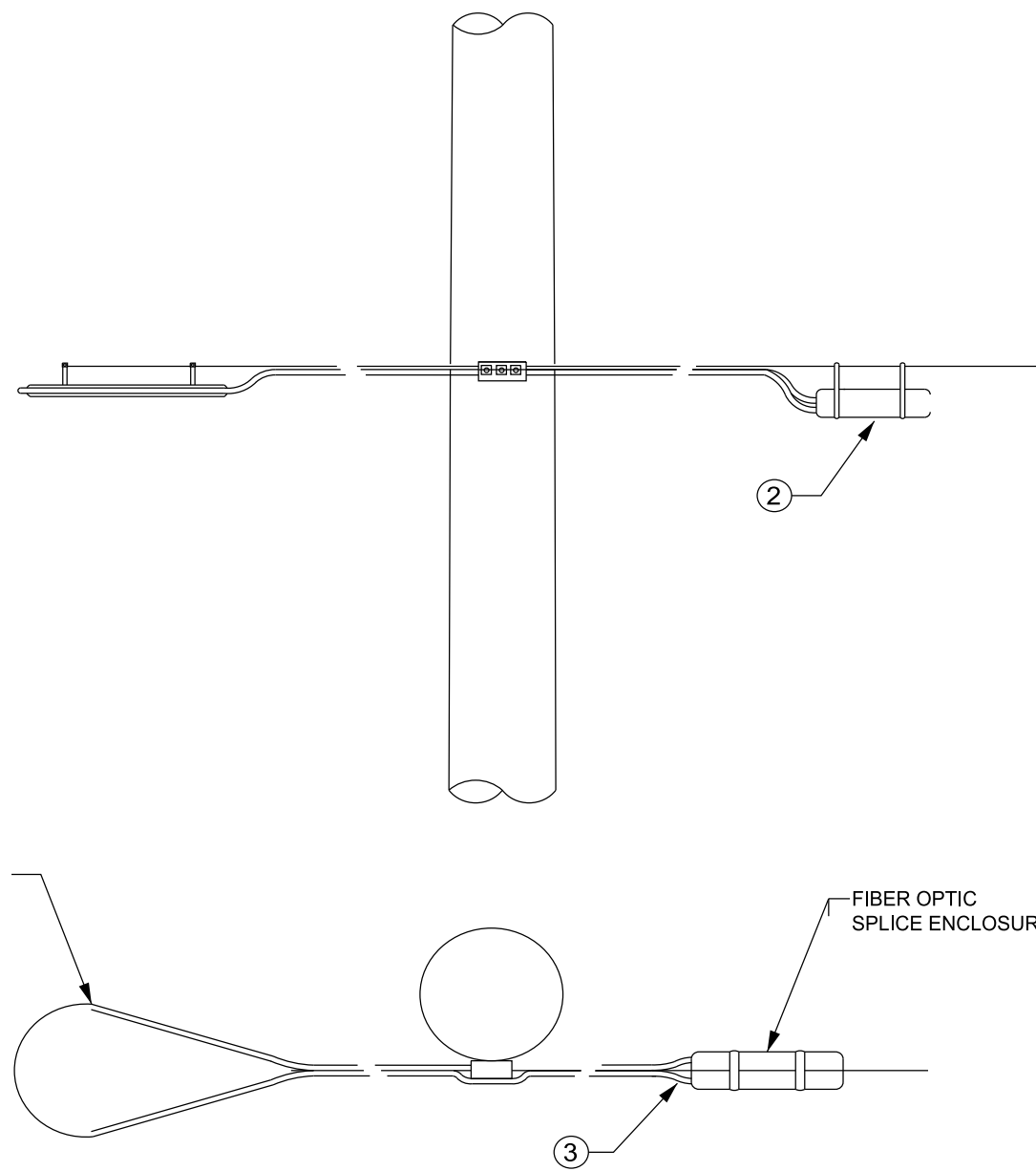


2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (865) 539-7192

TELECOMMUNICATIONS RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-94	U2-05

CUMBERLAND COUNTY
PIN 124053.00



NOTES:

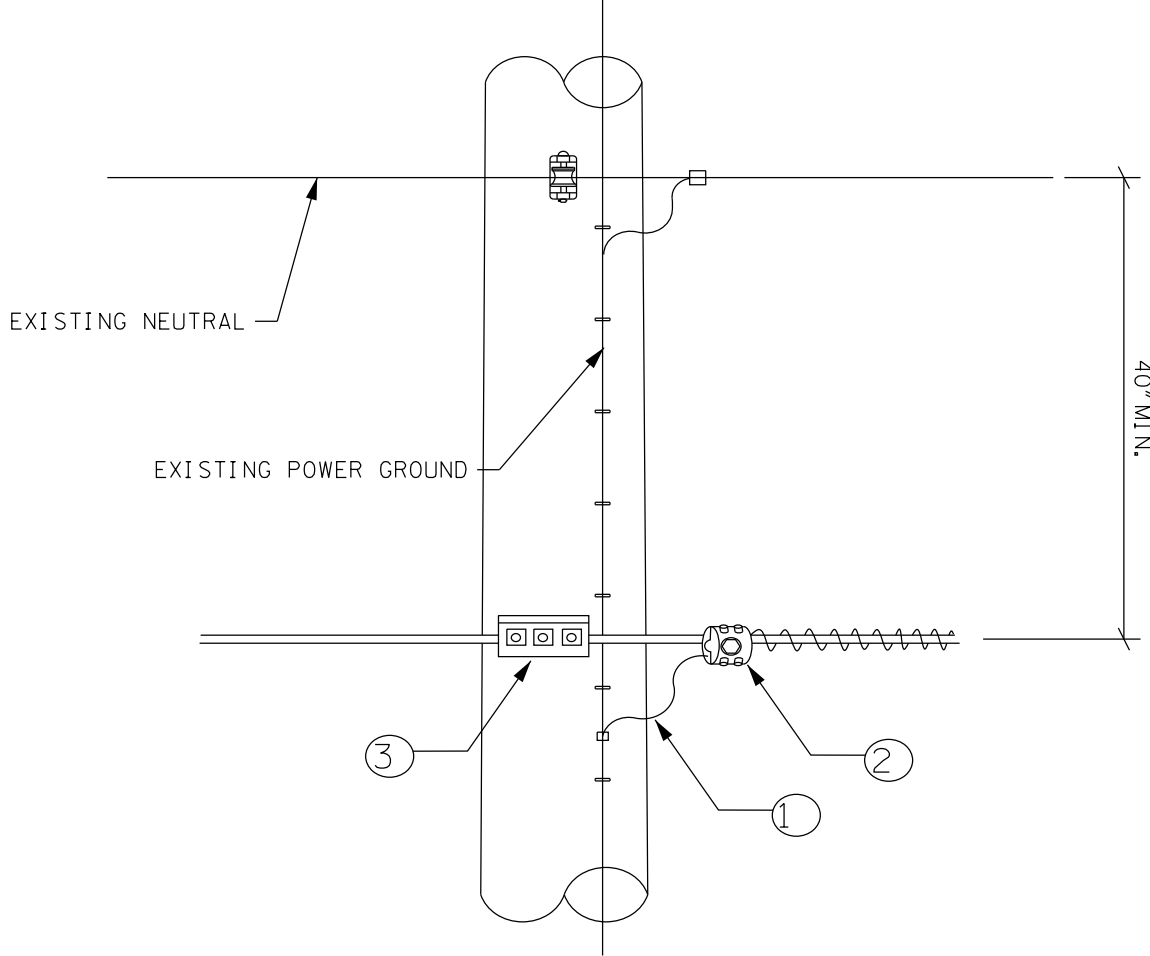
1. FIBEROPTIC STRAND STORAGE IS ANTEC* FIBERLOOP* MODEL FOSS-2.
2. STRAND STORAGE IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

ID	QTY.	DESCRIPTION
1	1	ANTEC FIBERLOOP MODEL FOSS-2
2	1	FIBEROPTIC SPLICE ENCLOSURE
3	1	FIBER (LENGTH AND SIZE AS REQUIRED)

FIBEROPTIC STRAND STORAGE

ASSEMBLY

FOSS



NOTES:

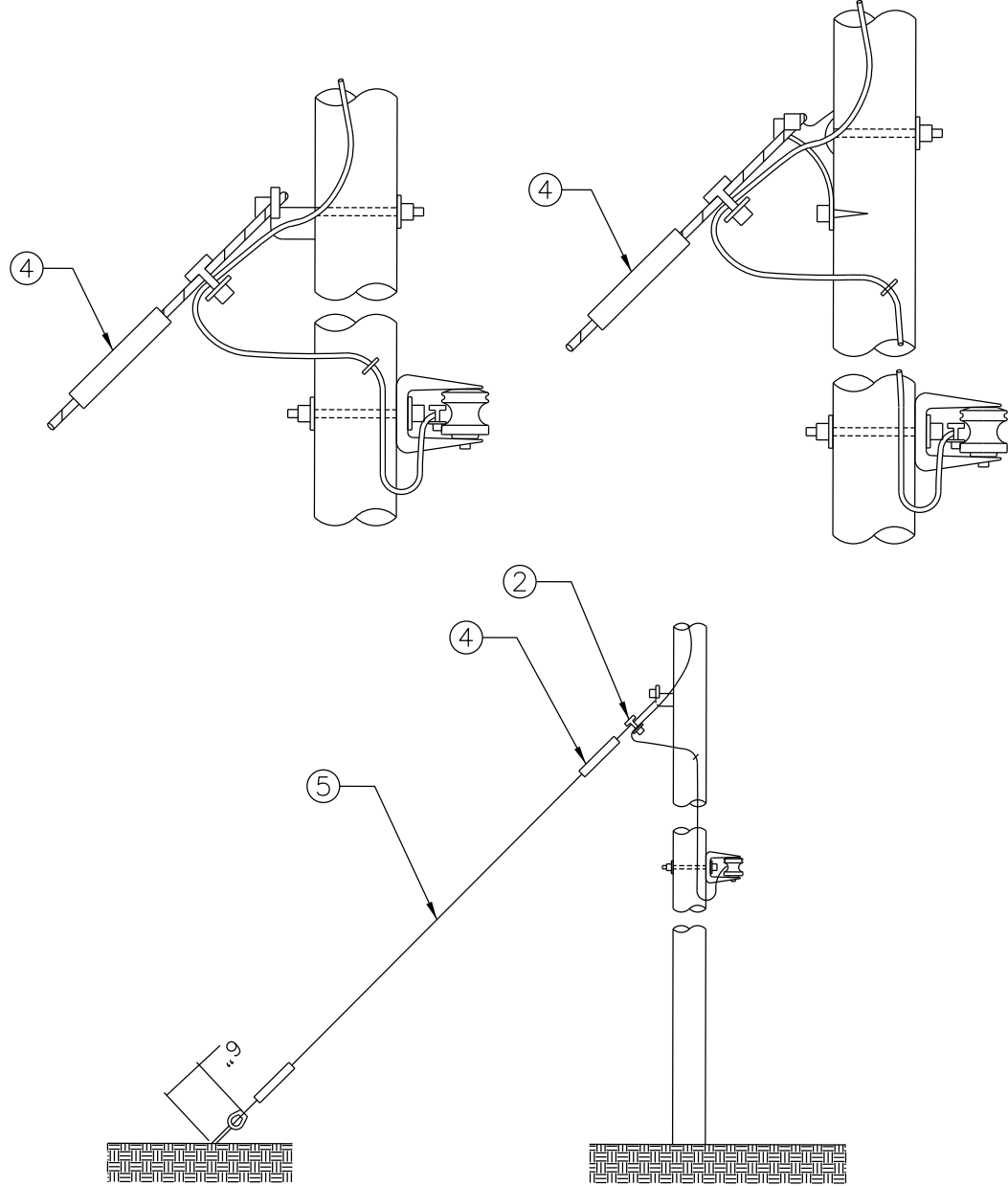
1. BOND AT EVERY GROUND, EXCEPT FOR AMPLIFIER AND LINE EXTENDER LOCATIONS.
2. GROUND WIRE MUST NOT EXTEND OUT OF THE END OF THE K-1 BONDING CLAMP.

ID	QTY.	DESCRIPTION
1	AS REQ'D	*6 GROUND WIRE (LENGTH AS REQUIRED)
2	1	K-1 BONDING CLAMP
3	1	3-BOLT SUSPENSION CLAMP ASSEMBLY

STRAIGHT LINE CONSTRUCTION WITH BOND

ASSEMBLY

BOND



NOTES:

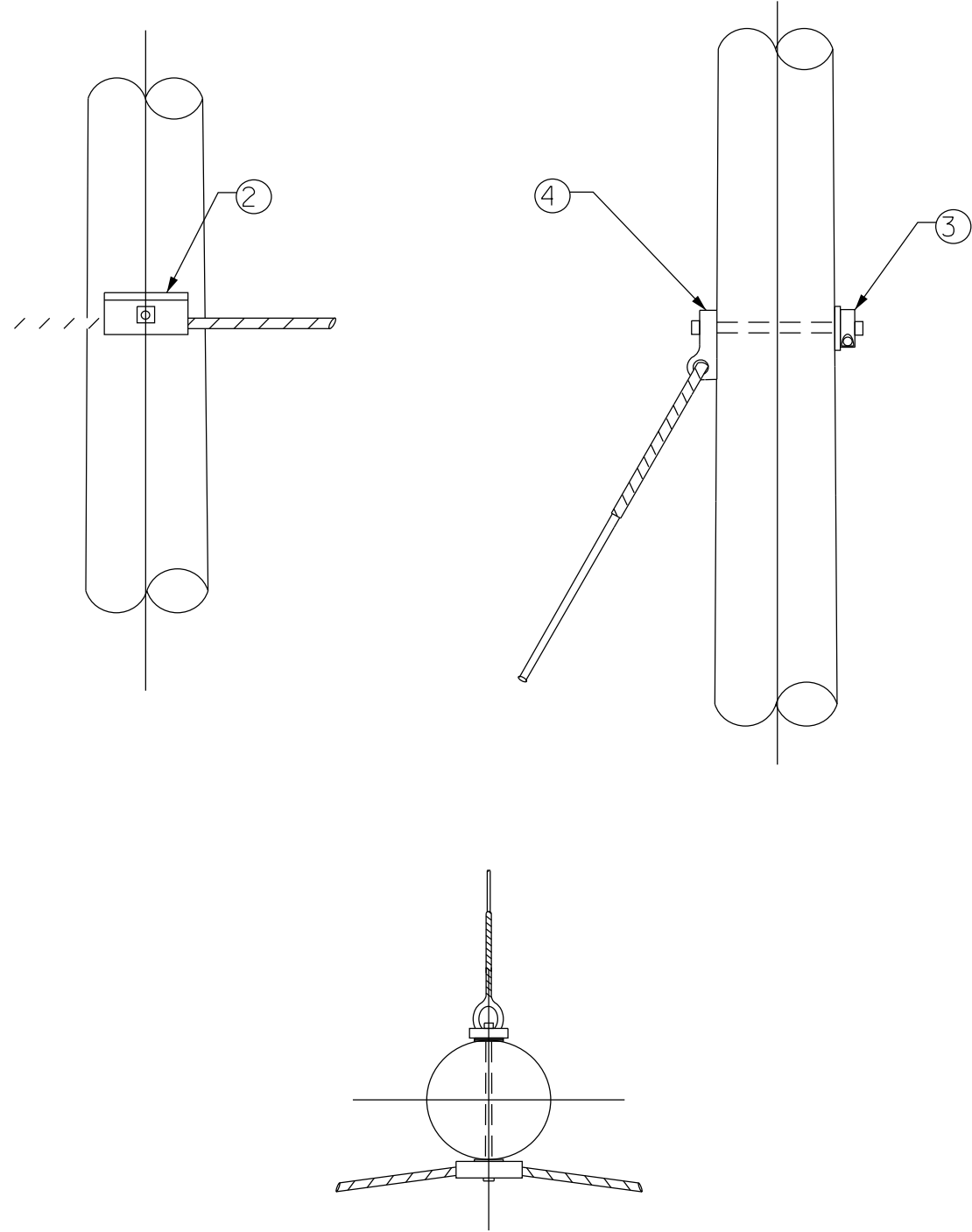
1. GCC15-S4R GUY INSULATOR INCLUDED FOR STEEL POLE ASSEMBLIES.
2. ALL GUY LEAD LENGTHS SHALL BE SET USING A 2:1 RATIO TO THE HEIGHT OF THE POLE UNLESS NOTED OTHERWISE.

ID	QTY.	DESCRIPTION
1	1	POLE EYE ATTACHMENT #MGA-345N
2	1	GUY CLAMPS 3 BOLT
3	1	DEAD END GUY GRIP 3/8"
4	1	GUY FIBERGLASS STRAIN INSULATOR
5	1	GUY WIRE (LENGTH AS REQUIRED)

DOWN GUY 3/8"
THRU BOLT TYPE

ASSEMBLY

E1-2

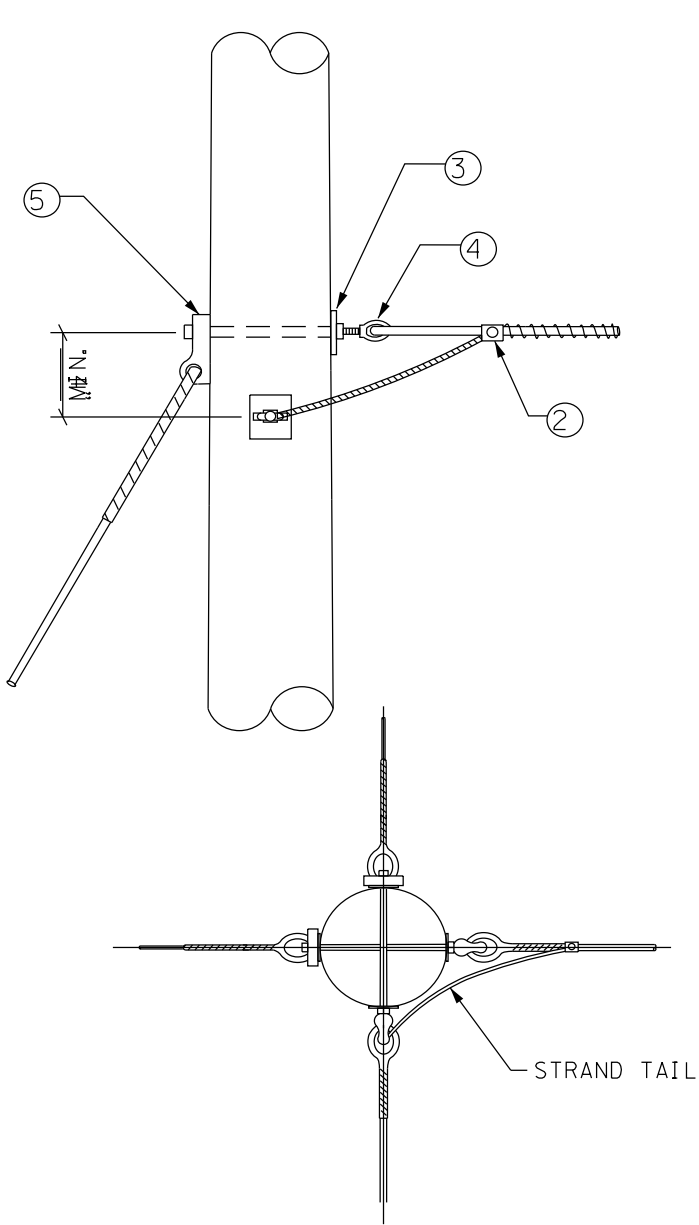


ID	QTY.	DESCRIPTION
1	2	2-1/4" SQUARE FLAT WASHER
2	1	CURVED SUSPENSION CLAMP
3	1	5/8" X REQ'D LENGTH MACHINE BOLT W/ LOCKNUT
4	1	GUYING BRACKET

CURVED CABLE SUSPENSION CLAMP

ASSEMBLY

CSC



NOTES:

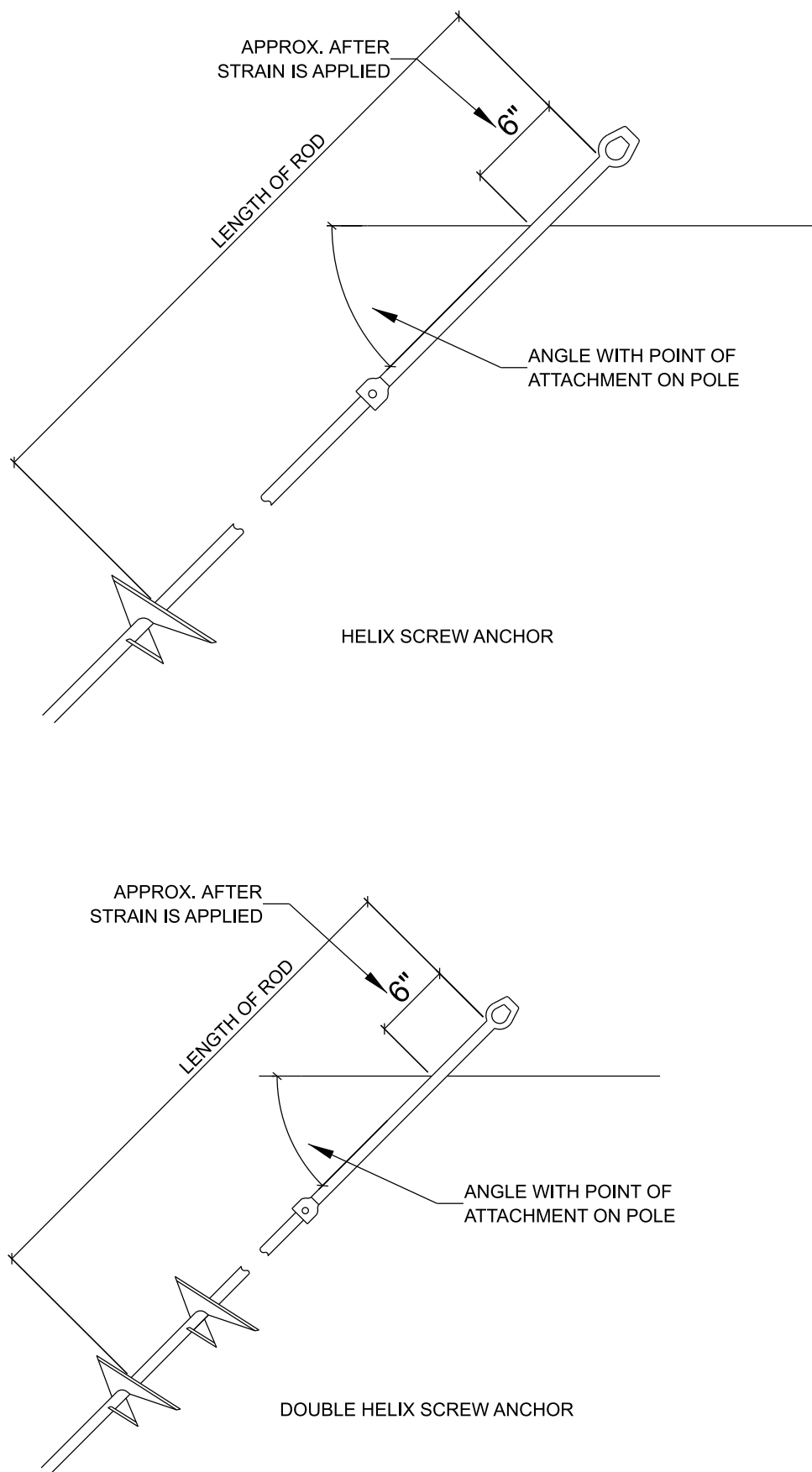
1. PERFORMED DEADEND MUST BE PROPER OVAL SHAPE AND FIT COMPLETELY INTO GUY STRAP.
2. IF BOND BETWEEN STRAND AND DOWN GUY IS REQUIRED BY SPECIFIC LOCAL INTERPRETATION, USE GUY TAIL AND K-2 BONDING CLAMP.

ID	QTY.	DESCRIPTION
1	AS REQ'D	*4 CU. GROUND WIRE (LENGTH AS REQUIRED)
2	1	K-2 BONDING CLAMP
3	2	5/8" X REQUIRED LENGTH MACHINE BOLT W/ LOCKNUT
4	2	THIMBLE NUT
5	2	GUYING BRACKET

DOUBLE DEADEND

ASSEMBLY

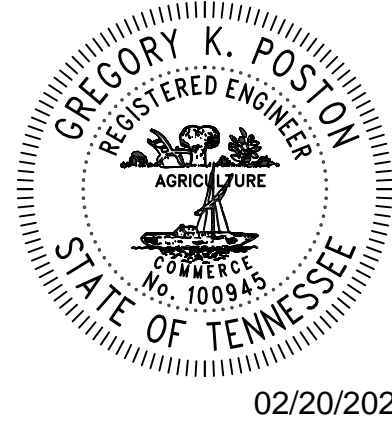
DDE



POWER INSTALLED 8"
HELIX SCREW ANCHORS

ASSEMBLY

F1 & F2



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG



2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATIONS RELOCATION
CONSTRUCTION DETAILS

INDEX OF DRAWINGS

UX-01	TELECOMMUNICATIONS RELOCATION ESTIMATED QUANTITIES AND DRAWING INDEX
UX-02	TELECOMMUNICATIONS RELOCATION VICINITY MAP AND LEGEND
UX-03	TELECOMMUNICATIONS RELOCATION GENERAL NOTES
UX-04	TELECOMMUNICATIONS RELOCATION STA. 55+35 TO STA. 65+55
UX-05	TELECOMMUNICATIONS RELOCATION CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2024	18004-3227-84	U2-01

CUMBERLAND COUNTY
PIN 124053.00

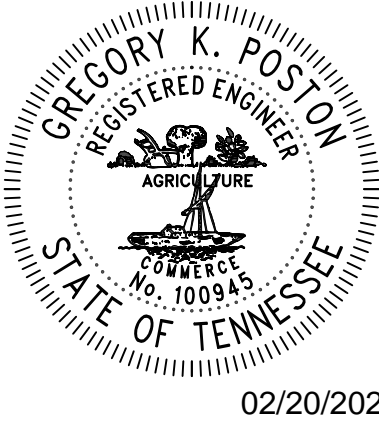
6


ESTIMATED QUANTITIES						
ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY	PERCENT UTILITY	PERCENT PROJECT
798-05.02	FIBER OPTIC CABLE ENCLOSURE	ENC	EACH	8	0%	100%
798-05.03	FIBER OPTIC CABLE SPLICE		EACH	8	0%	100%
798-05.07	3/8 IN HIGH STRENGTH STEEL STRAND	3/8" STRAND	L.F.	1260	0%	100%
798-06.04	FIBER OPTIC CABLE (12F)	12F	L.F.	1260	0%	100%
798-06.13	FIBER OPTIC CABLE (48F)	48F	L.F.	1260	0%	100%
798-06.11	FIBER OPTIC CABLE (96F)	96F	L.F.	2520	0%	100%
798-06.48	FIBER STORAGE LOOP	LOOP	EACH	8	0%	100%
798-09.01	REMOVE STEEL STRAND		L.F.	1236	0%	100%
798-09.03	REMOVE POLES, GUYS, ANCHORS		EACH	2	0%	100%
798-09.07	REMOVE FIBER OPTIC CABLE		L.F.	4997	0%	100%
798-09.08	REMOVE STRAND POLE FRAMING		EACH	6	0%	100%
798-11.31	POWER INSTALLED ANCHOR	E1-2	EACH	4	0%	100%
798-11.41	DOWNGUY - WRAP TYPE	F3	EACH	4	0%	100%
798-13.03	STRAND TANGENT ASSEMBLY	SC	EACH	2	0%	100%
798-13.04	STRAND ANGLE ASSEMBLY	CSC	EACH	2	0%	100%
798-13.07	STRAND DOUBLE DEADEND ASSEMBLY	DDE	EACH	3	0%	100%

FOOTNOTE 6:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL AND BONDING/GROUNDING.

UTILITY INFORMATION

Charter Communications, LLC
17851 S. Willow Ave., Suite 206
Cookeville, TN 38501
CONTACT: Morgan Wilcher
PHONE: 931-739-9222
EMAIL: morgan.wilcher@charter.com



JOB NUMBER: 29088.30		 <div>2095 LAKESIDE CENTRE WAY SUITE 120 KNOXVILLE, TENNESSEE 37922 (865) 521-6777 (866) 539-7192</div>
DESIGNED: MAS		
DRAWN: MAS		
CHECKED: BBG		
SCALE N.T.S	DATE 02.12.2025	

TELECOMMUNICATIONS RELOCATION
ESTIMATED QUANTITIES AND DRAWING INDEX

CUMBERLAND COUNTY

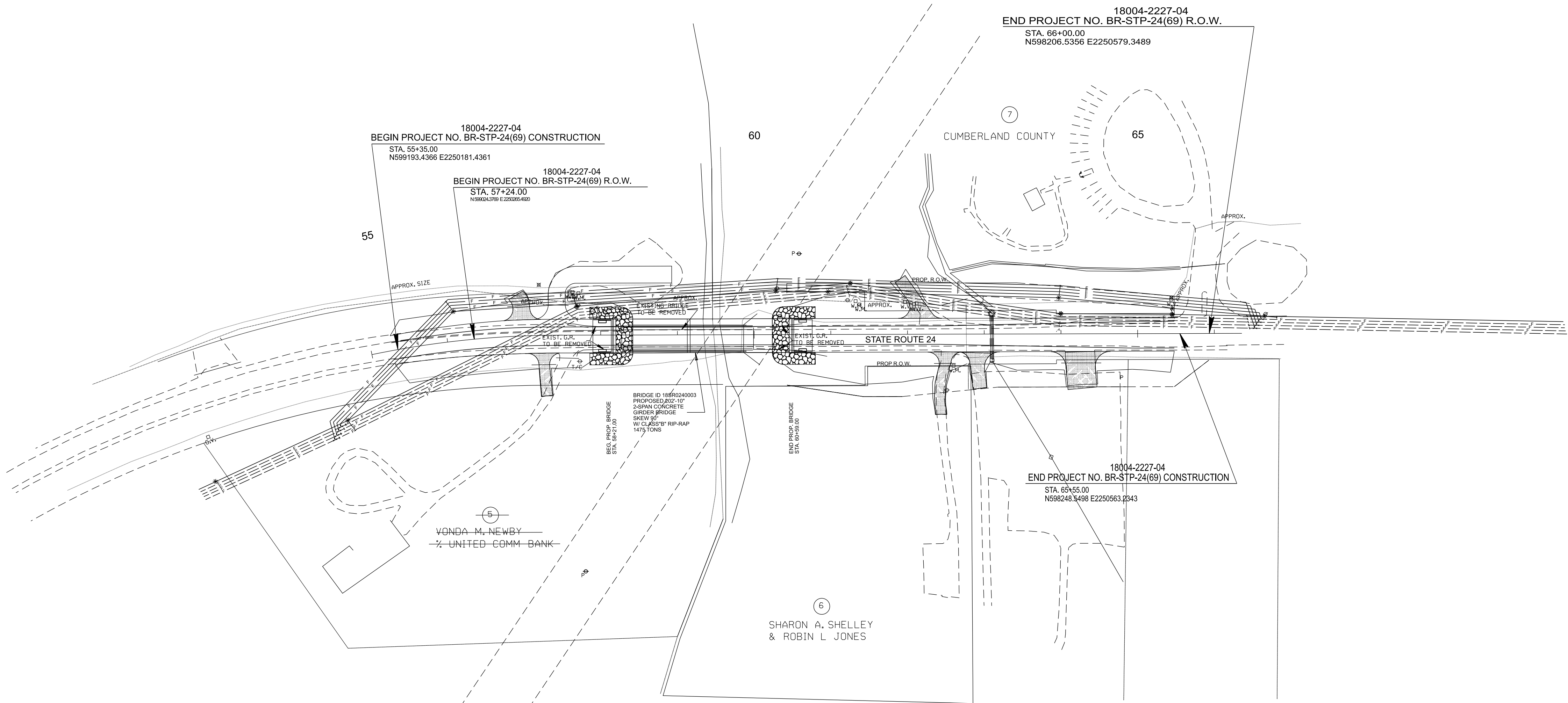
S.R. 24 (70 N)

BRIDGE OVER OBED RIVER.

L.M 15.37 IN CROSSVILLE (IA)

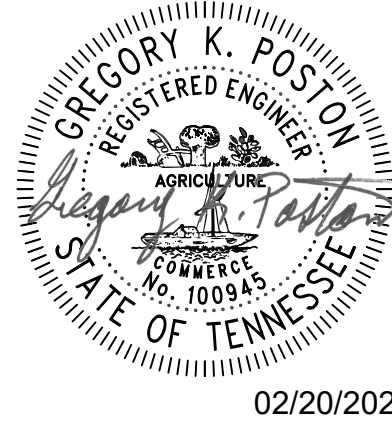
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-94	U2-02

CUMBERLAND COUNTY
PIN 124053.00



LEGEND

	EXISTING 3/8" STRAND
	REMOVAL 3/8" STRAND
	PROPOSED 3/8" STRAND
	EXISTING ANCHOR/DOWNGUY
	REMOVAL ANCHOR/DOWNGUY
	REMOVAL POLE
	EXISTING POLE
	EXISTING FIBER
	REMOVAL FIBER
	PROPOSED FIBER
	PROPOSED SPLICE



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG



TELECOMMUNICATIONS RELOCATION
VICINITY MAP AND LEGEND

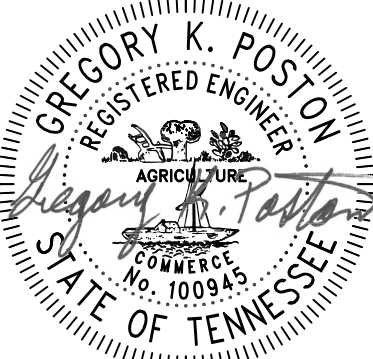
GENERAL CONSTRUCTION NOTES

1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE COMMUNICATION FACILITIES ALONG THIS PROJECT.
2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT ITS COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.
3. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.
4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING AROUND ENERGIZED ELECTRICAL LINES (e.g. RUBBER GLOVES INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).
5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.
6. IN GENERAL, THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.
7. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.
8. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.
9. THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S PROJECT REPRESENTATIVE USING TELEPHONE COMMUNICATIONS.
10. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113 "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.
11. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.
12. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.
13. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.
14. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.
15. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.
16. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".
17. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.
18. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.
19. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

20. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.
21. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.
22. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE FACILITIES IN ACCORDANCE WITH UTILITY OWNER SPECIFICATIONS.
23. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.
24. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.
25. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURRING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.
26. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.
27. ALL ACTIVE AND PASSIVE EQUIPMENT SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR.
28. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS, ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.
29. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.
30. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.
31. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.
32. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CABLE FOR THE PROJECT. ANY DAMAGE TO THE CABLE SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CABLES SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.
33. ANY CUSTOMER OUTAGES FOR CUTOVER TO NEW CABLES MUST BE COORDINATED WITH AND SCHEDULED BY UTILITY OWNER. SCHEDULED CUSTOMER OUTAGES REQUIRE A MINIMUM OF 14 DAYS FOR NOTIFICATION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2024	18004-3227-84	U2-03

CUMBERLAND COUNTY
PIN 124053.00



02/20/2025

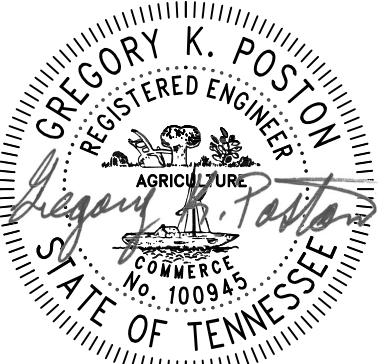
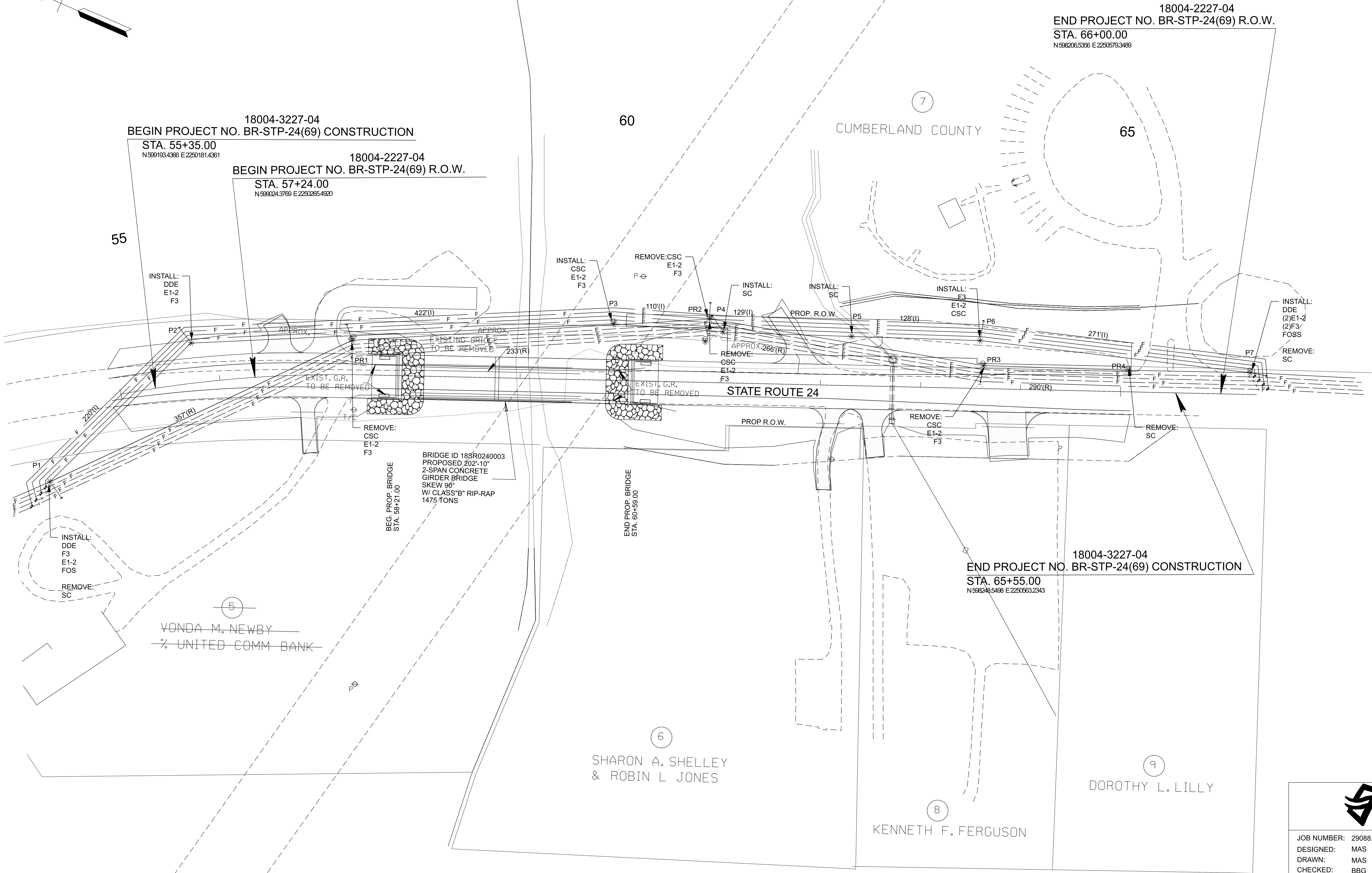
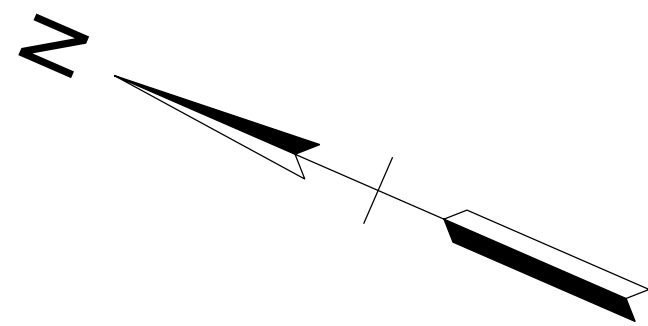


JOB NUMBER: 29088.30		 <div>2095 LAKESIDE CENTRE WAY SUITE 120 KNOXVILLE, TENNESSEE 37922 (865) 521-6777 (866) 539-7192</div>
DESIGNED: MAS	MAS	
DRAWN: MAS	BBG	
CHECKED: BBG		
SCALE N.T.S	DATE 07.12.2024	

TELECOMMUNICATIONS RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U2-02

CUMBERLAND COUNTY
PIN 124053.00



02/20/2025



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG



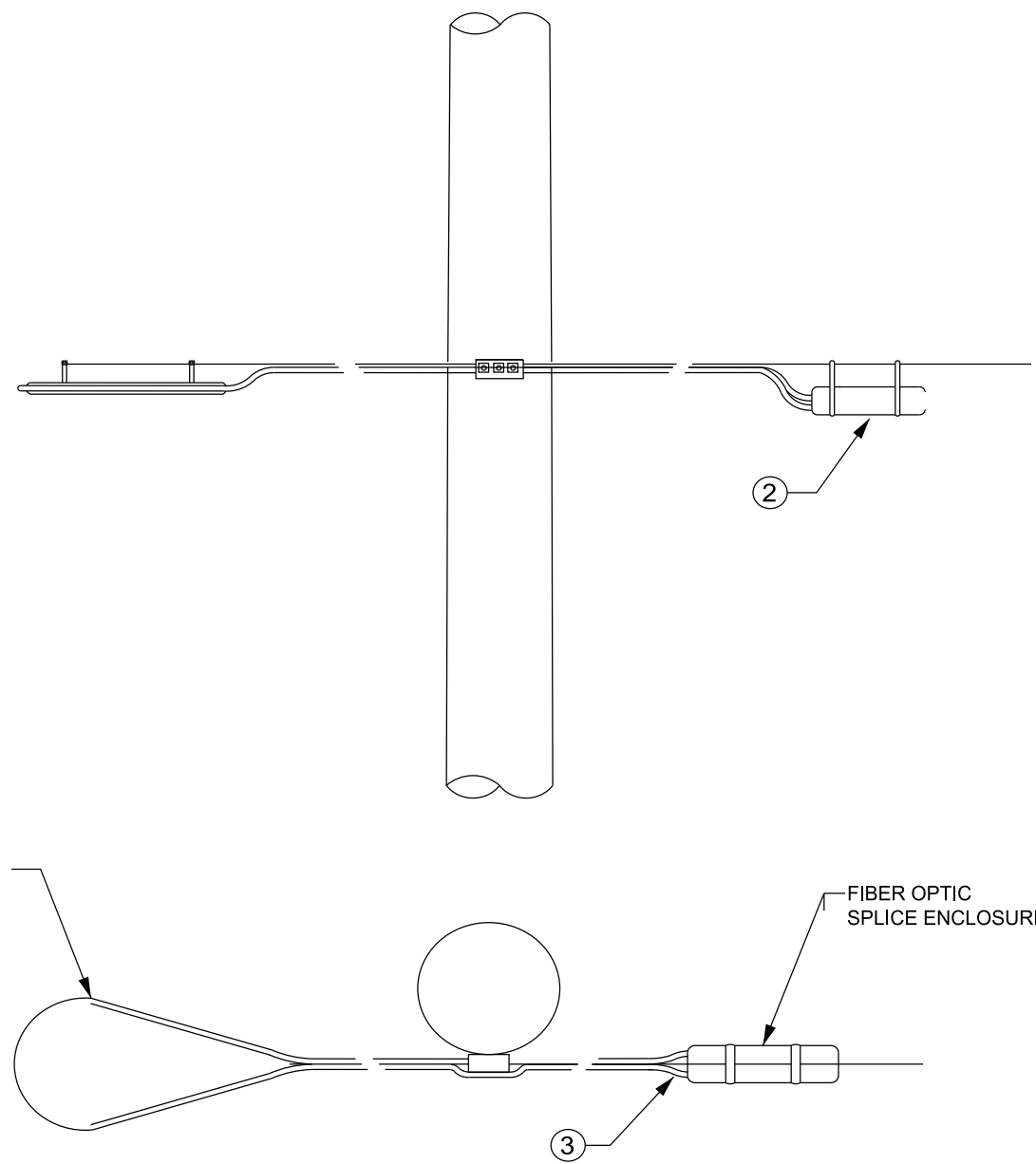
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (865) 539-7192

SCALE: N.T.S.
DATE: 02.12.2025

TELECOMMUNICATIONS RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-94	U2-05

CUMBERLAND COUNTY
PIN 124053.00



NOTES:

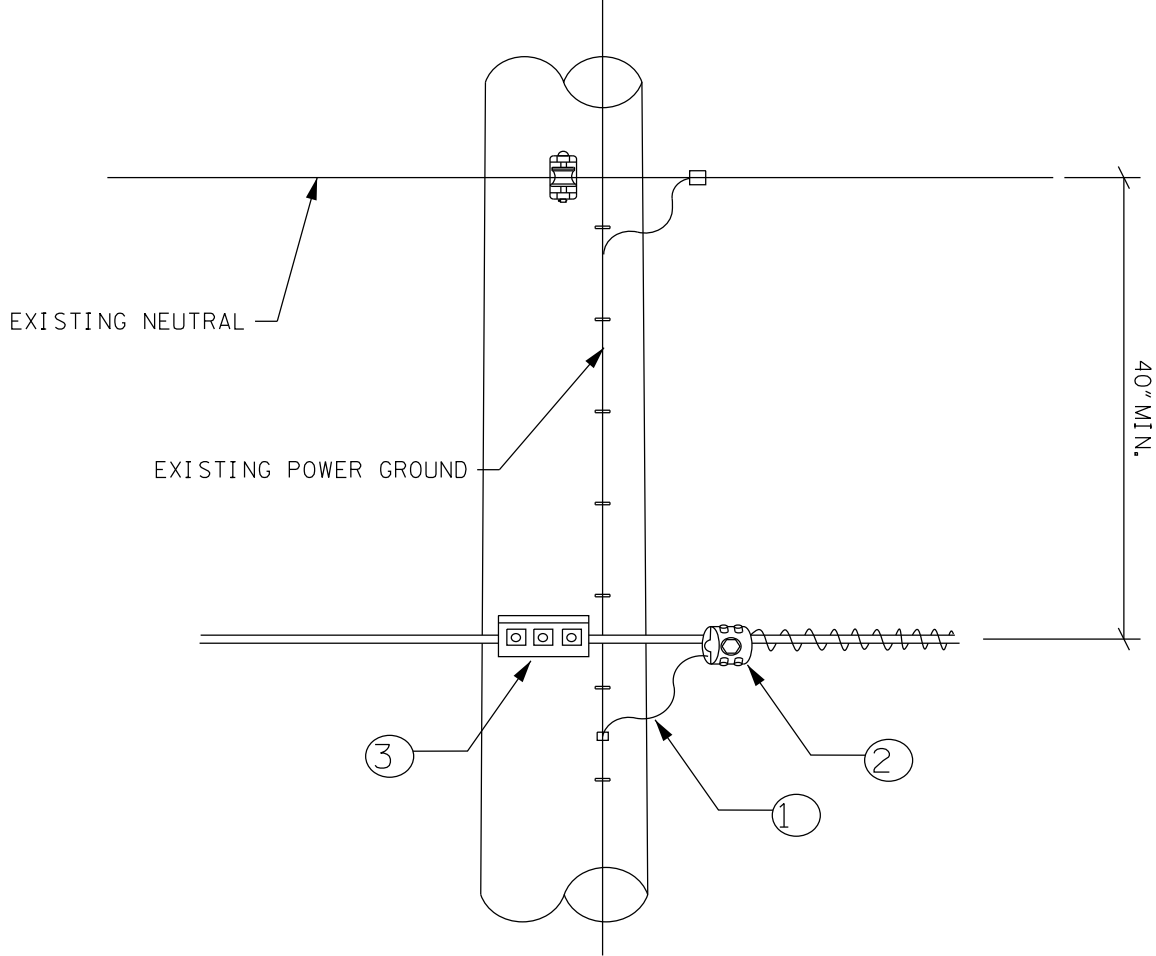
1. FIBEROPTIC STRAND STORAGE IS ANTEC* FIBERLOOP* MODEL FOSS-2.
2. STRAND STORAGE IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

ID	QTY.	DESCRIPTION
1	1	ANTEC FIBERLOOP MODEL FOSS-2
2	1	FIBEROPTIC SPLICE ENCLOSURE
3	1	FIBER (LENGTH AND SIZE AS REQUIRED)

FIBEROPTIC STRAND STORAGE

ASSEMBLY

FOSS



NOTES:

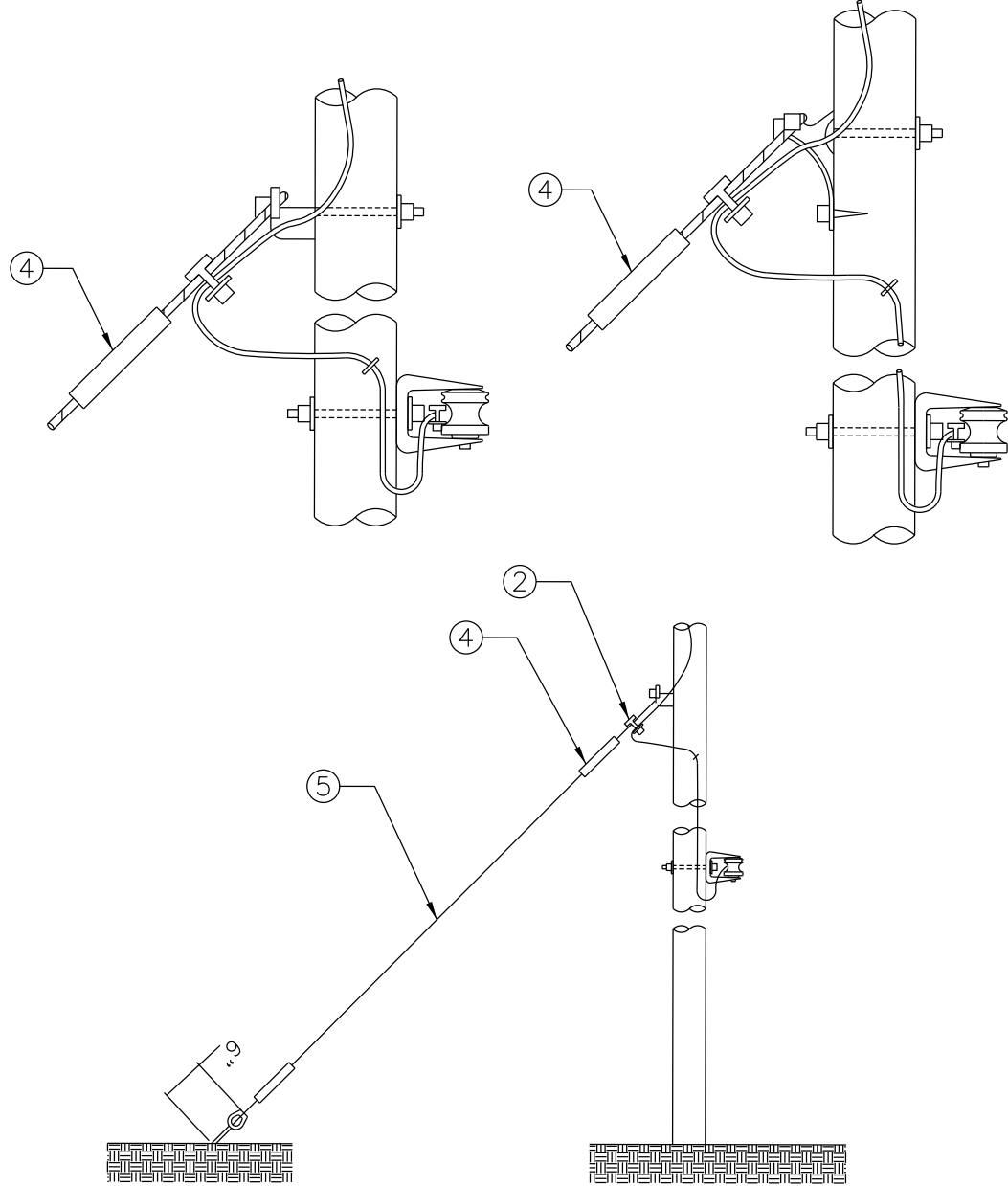
1. BOND AT EVERY GROUND, EXCEPT FOR AMPLIFIER AND LINE EXTENDER LOCATIONS.
2. GROUND WIRE MUST NOT EXTEND OUT OF THE END OF THE K-1 BONDING CLAMP.

ID	QTY.	DESCRIPTION
1	AS REQ'D	*6 GROUND WIRE (LENGTH AS REQUIRED)
2	1	K-1 BONDING CLAMP
3	1	3-BOLT SUSPENSION CLAMP ASSEMBLY

STRAIGHT LINE CONSTRUCTION WITH BOND

ASSEMBLY

BOND



NOTES:

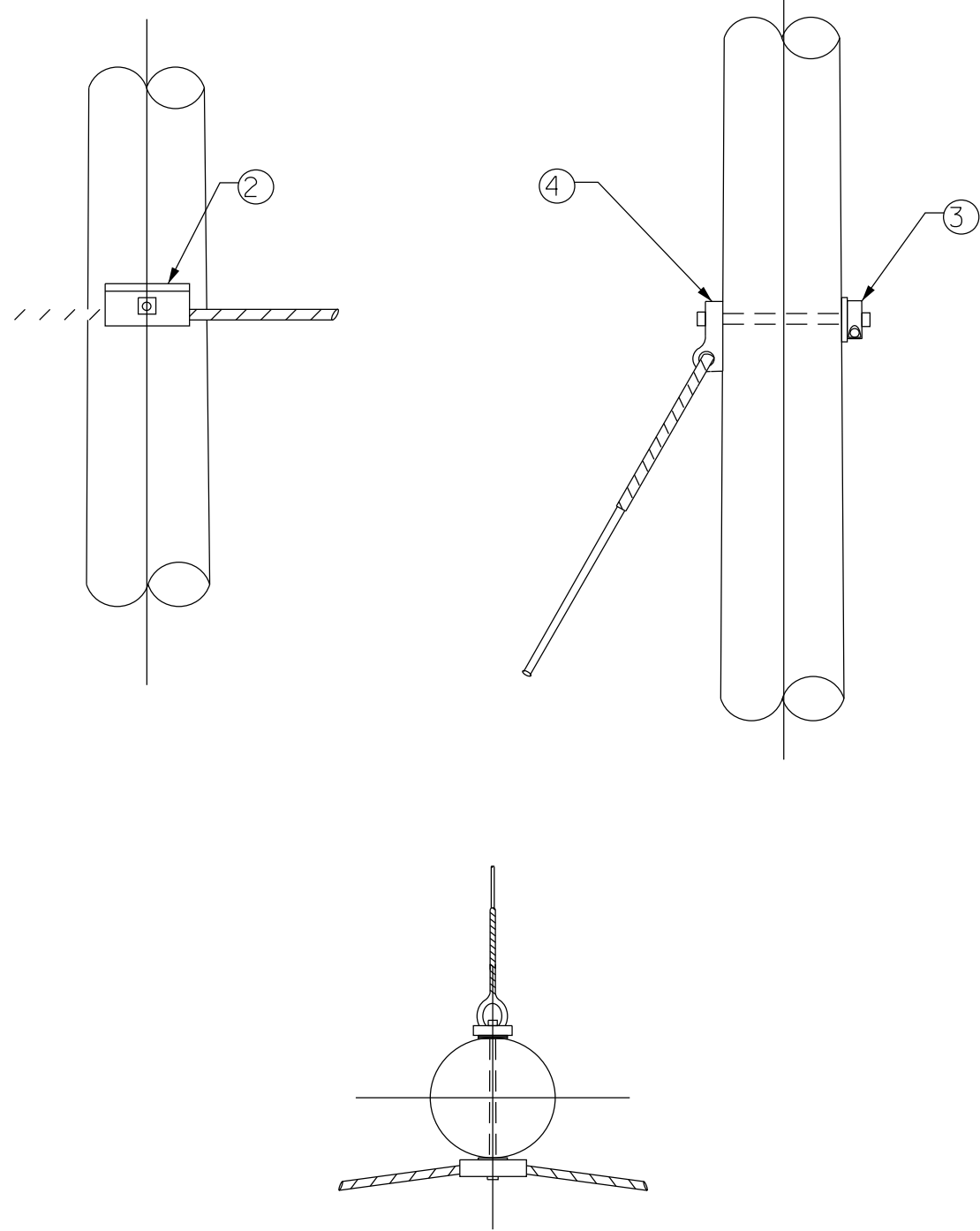
1. GCC15-S4R GUY INSULATOR INCLUDED FOR STEEL POLE ASSEMBLIES.
2. ALL GUY LEAD LENGTHS SHALL BE SET USING A 2:1 RATIO TO THE HEIGHT OF THE POLE UNLESS NOTED OTHERWISE.

ID	QTY.	DESCRIPTION
1	1	POLE EYE ATTACHMENT #MGA-345N
2	1	GUY CLAMPS 3 BOLT
3	1	DEAD END GUY GRIP 3/8"
4	1	GUY FIBERGLASS STRAIN INSULATOR
5	1	GUY WIRE (LENGTH AS REQUIRED)

DOWN GUY 3/8"
THRU BOLT TYPE

ASSEMBLY

E1-2

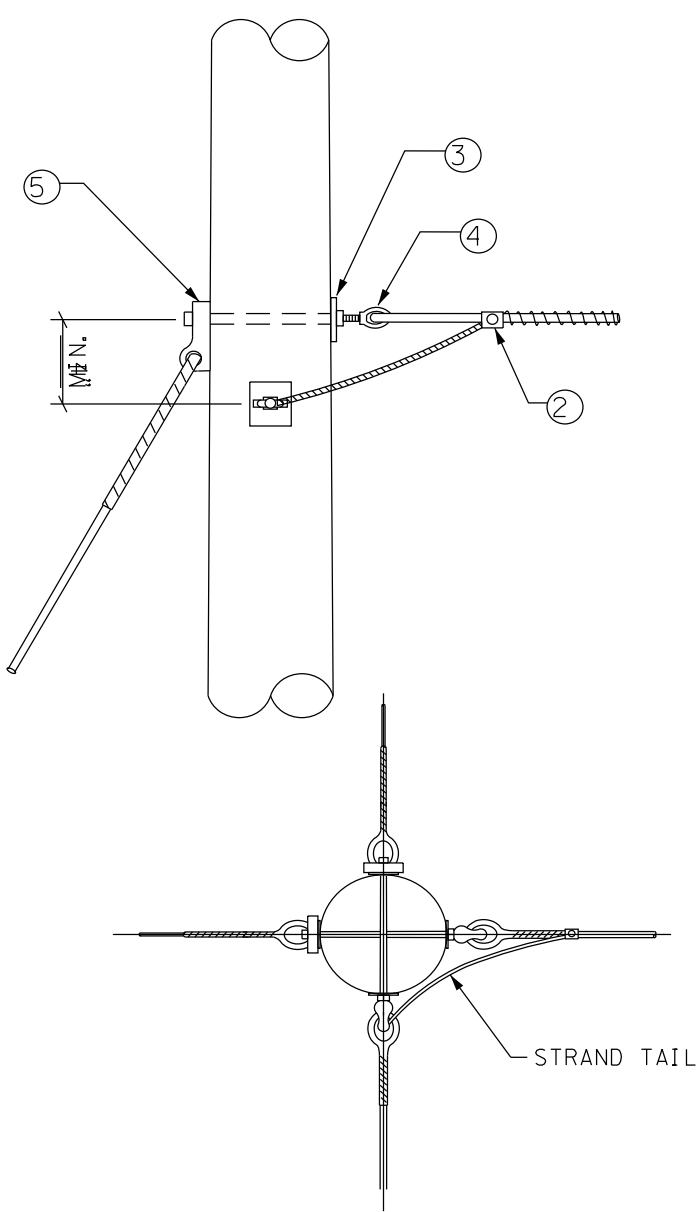


ID	QTY.	DESCRIPTION
1	2	2-1/4" SQUARE FLAT WASHER
2	1	CURVED SUSPENSION CLAMP
3	1	5/8" X REQ'D LENGTH MACHINE BOLT W/ LOCKNUT
4	1	GUYING BRACKET

CURVED CABLE SUSPENSION CLAMP

ASSEMBLY

CSC



NOTES:

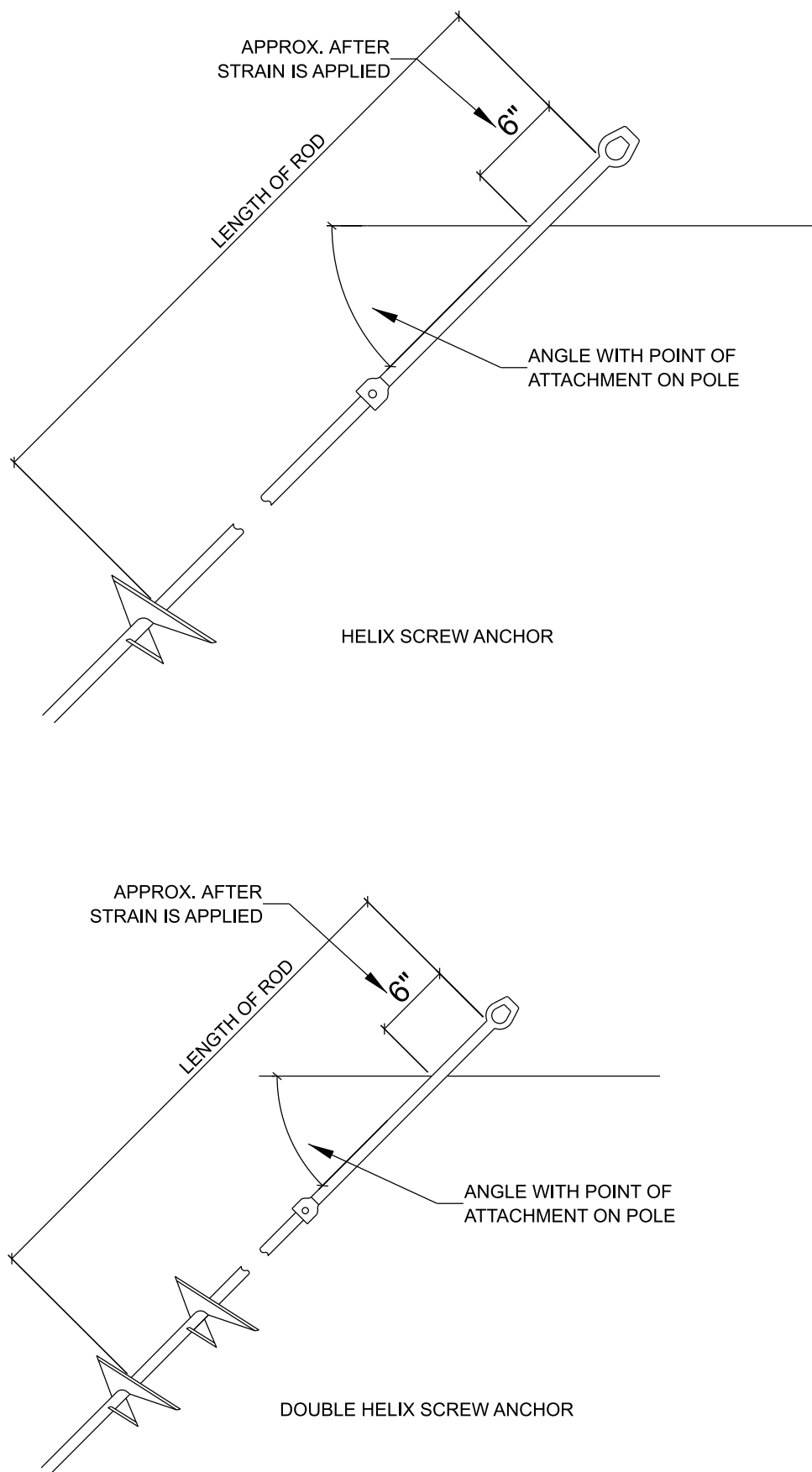
1. PERFORMED DEADEND MUST BE PROPER OVAL SHAPE AND FIT COMPLETELY INTO GUY STRAP.
2. IF BOND BETWEEN STRAND AND DOWN GUY IS REQUIRED BY SPECIFIC LOCAL INTERPRETATION, USE GUY TAIL AND K-2 BONDING CLAMP.

ID	QTY.	DESCRIPTION
1	AS REQ'D	*4 CU. GROUND WIRE (LENGTH AS REQUIRED)
2	1	K-2 BONDING CLAMP
3	2	5/8" X REQUIRED LENGTH MACHINE BOLT W/ LOCKNUT
4	2	THIMBLEYE NUT
5	2	GUYING BRACKET

DOUBLE DEADEND

ASSEMBLY

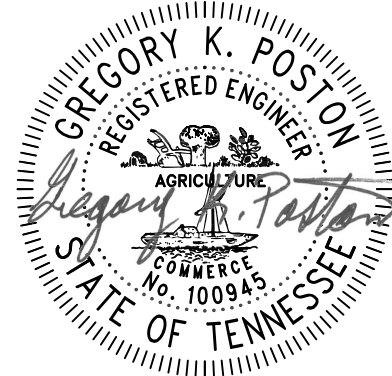
DDE



POWER INSTALLED 8"
HELIX SCREW ANCHORS

ASSEMBLY

F1 & F2



02/20/2025



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG

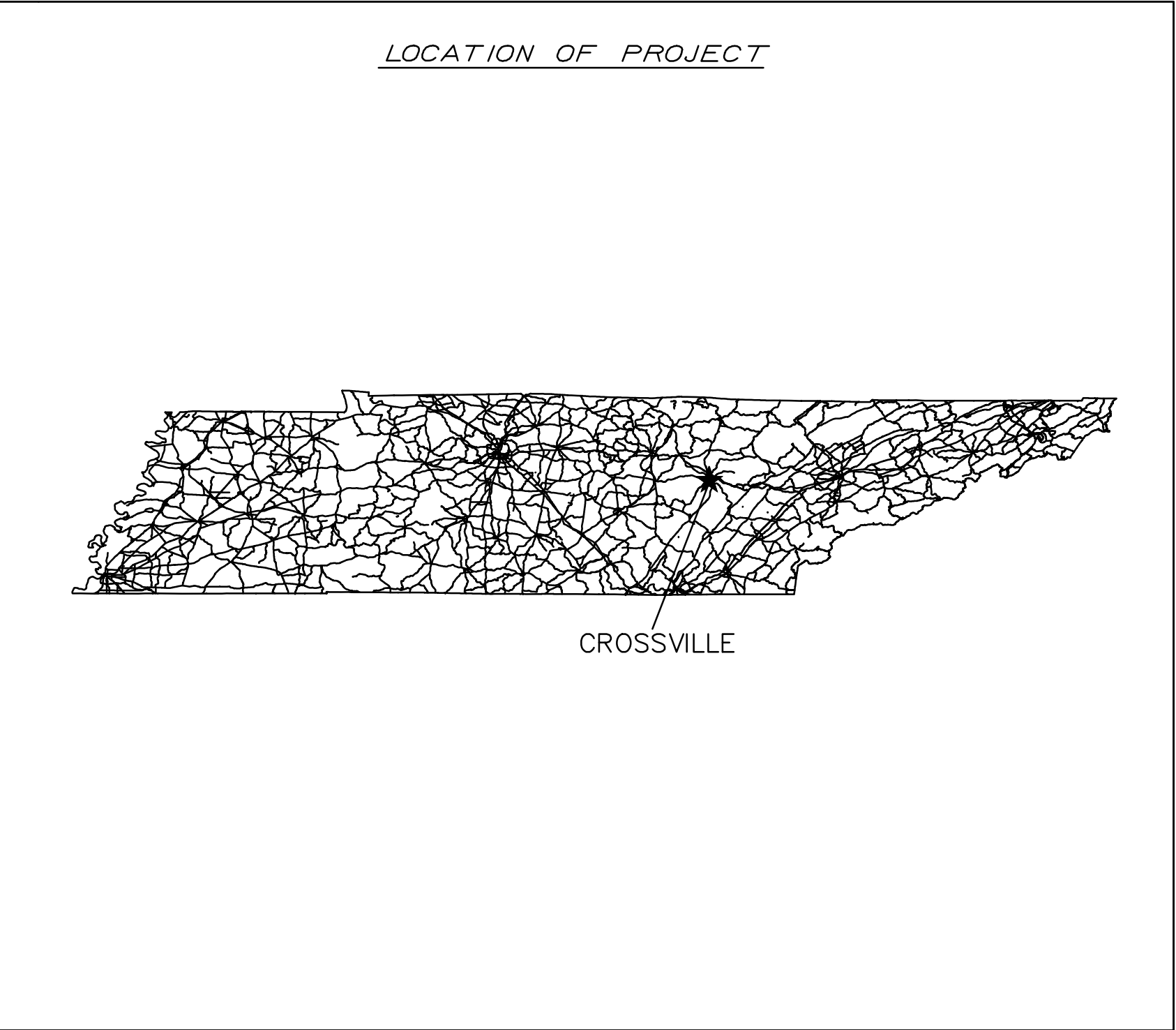


2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATIONS RELOCATION
CONSTRUCTION DETAILS

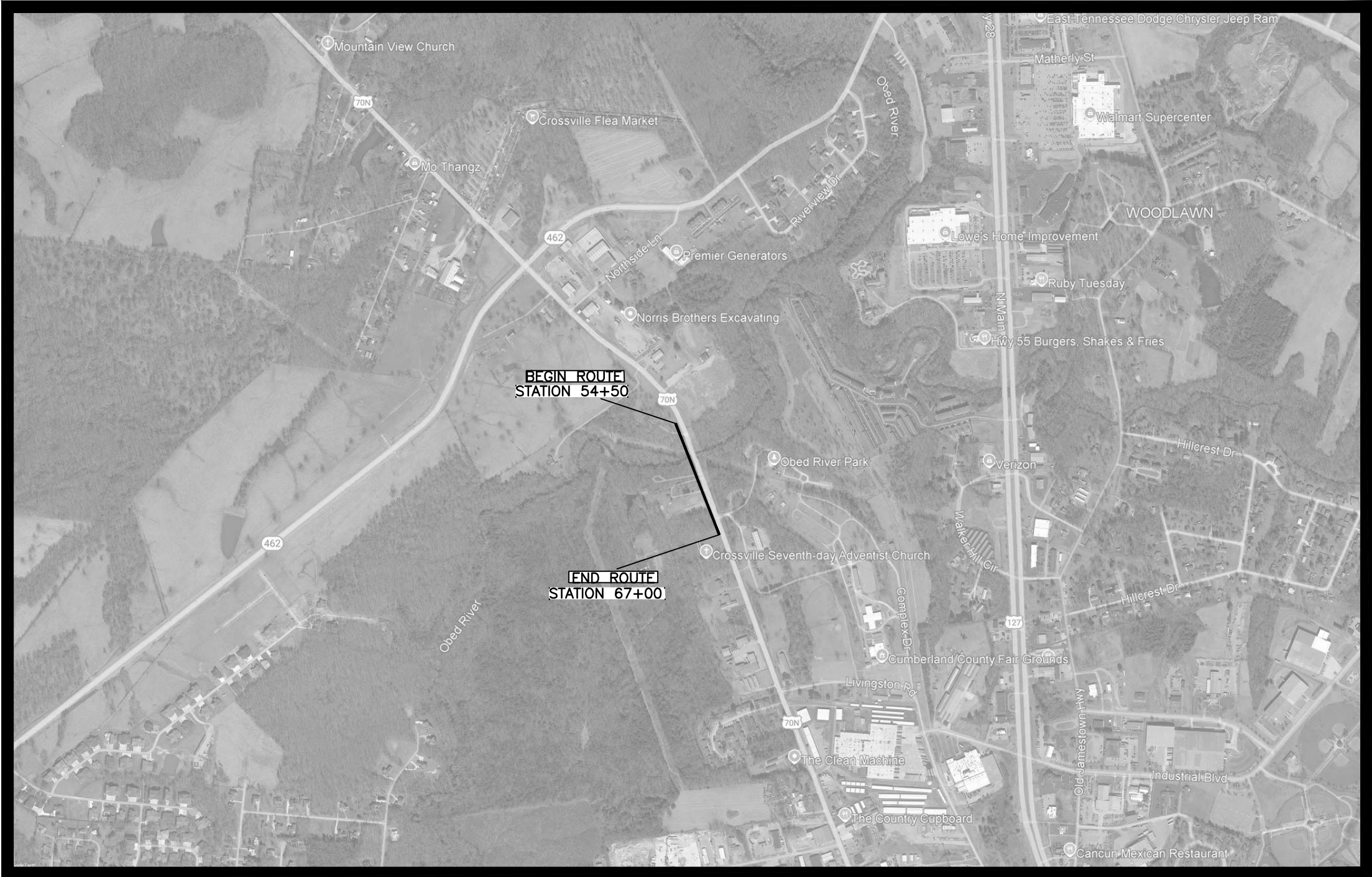
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U3-1
		PIN 124053.00	

OUTSIDE PLANT CONSTRUCTION
FIBER OPTIC CABLE ROUTE
CROSSVILLE, TN
CUMBERLAND COUNTY



INDEX

- 1. COVER SHEET
- 2. FIBER ROUTE RECORD DRAWING



SPRINT OSP PROJECT # A2961029
CROSSVILLE TENNESSEE
PROPOSED BUILD



ESTIMATED UTILITY QUANTITIES				
TDOT ITEM NO.	DESCRIPTION	UNIT	18004-3227-04 QUANTITY	FOOTNOTE
793-07.16	12-96 FIBER (INSTALLATION ONLY)	L.F.	1100	
793-11.27	QUAZITE HAND HOLE 36IN X 60IN X 30IN	EACH	2	
793-14.12	1 1/4IN INNERDUCT	L.F.	2200	
793-16.04	DIRECTIONAL BORE 4IN/FLEX SLEEVE	L.F.	1100	

COORDINATES ARE NAD/83 (2011),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00037 AND TIES TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

SPRINT DOES NOT WARRANT OR
GUARANTEE IN ANY MANNER THE
ACCURACY OF THIS MAP. ANY
INTENDED EXCAVATION REQUIRES
NOTIFICATION OF THE LOCAL "ONE
CALL CENTER" OR CALL SPRINT'S
CALL-BEFORE-YOU-DIG CENTER AT
1-800-SPRINT-0076, AT LEAST 72
HOURS PRIOR TO COMMENCING
ACTIVITY.



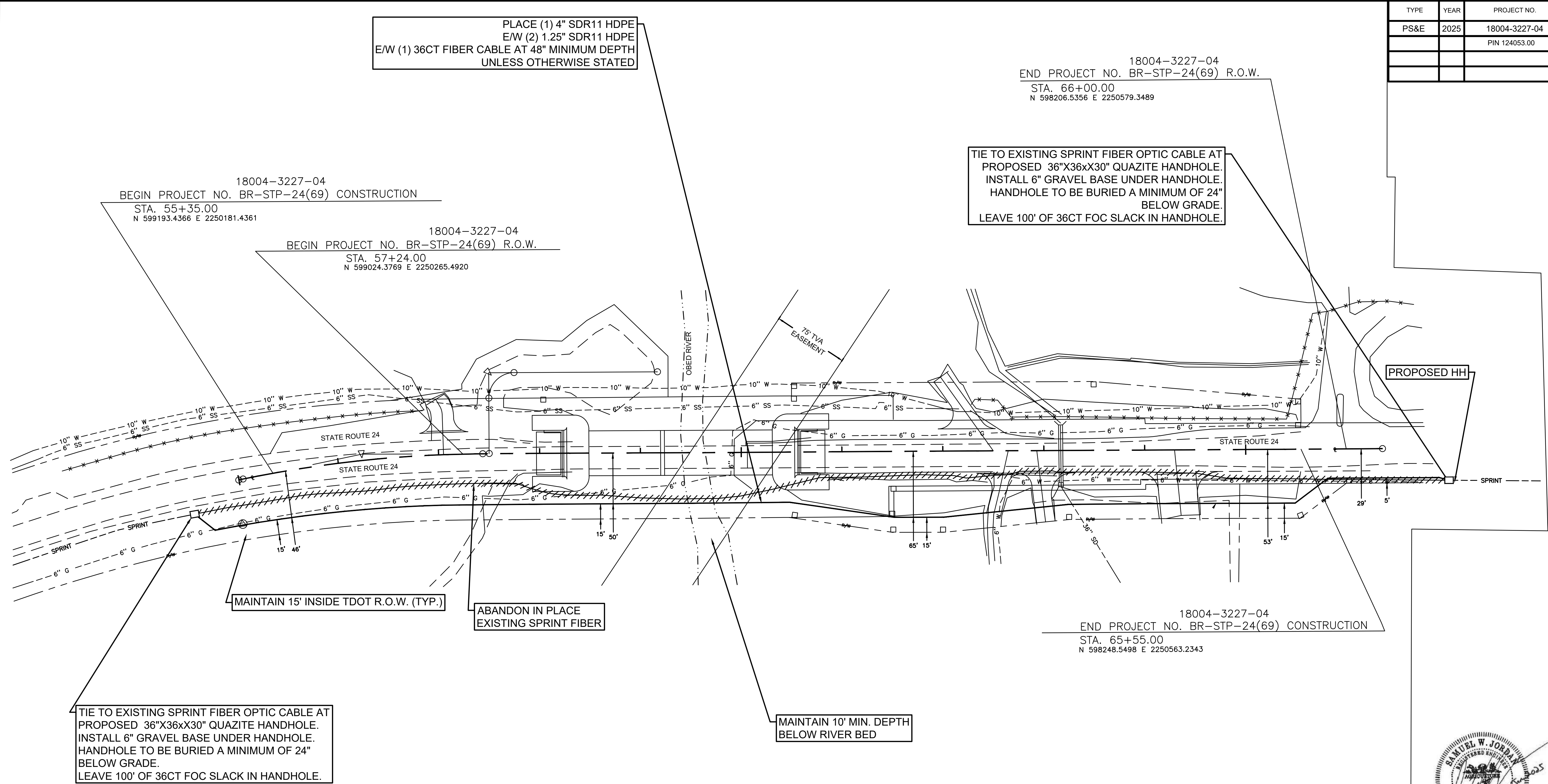
72 HOURS NOTICE REQUIRED



COVER SHEET
SPRINT TELECOM
FIBER OPTIC ROUTE
RECORD DRAWING

SHEET 1 OF 2
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U3-2
		PIN 124053.00	



UTILITY LEGEND	
//////////	ABANDON IN PLACE
- - - SPRINT - - -	EXISTING TO REMAIN
—————	PROPOSED FIBER OPTIC LINE

ESTIMATED UTILITY QUANTITIES				
TDOT ITEM NO.	DESCRIPTION	UNIT	18004-3227-04 QUANTITY	FOOTNOTE
793-07.16	12-96 FIBER (INSTALLATION ONLY)	L.F.	1100	
793-11.27	QUAZITE HAND HOLE 36IN X 60IN X 30IN	EACH	2	
793-14.12	1 1/4IN INNERDUCT	L.F.	2200	
793-16.04	DIRECTIONAL BORE 4IN/FLEX SLEEVE	L.F.	1100	

NOTE: COGENT COMMUNICATIONS TO SUPPLY FIBER OPTIC CABLE AND PERFORM SPLICING ON SITE.

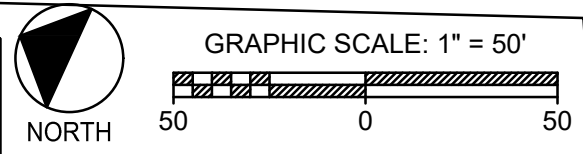
SPRINT DOES NOT WARRANT OR
GUARANTEE IN ANY MANNER THE
ACCURACY OF THIS MAP. ANY
INTENDED EXCAVATION REQUIRES
NOTIFICATION OF THE LOCAL "ONE
CALL CENTER" OR CALL SPRINT'S
CALL-BEFORE-YOU-DIG CENTER AT
1-800-521-0076 AT LEAST 72
HOURS PRIOR TO COMMENCING
ACTIVITY.



COORDINATES ARE NAD/83 (2011),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00037 AND TIES TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

SITE PLAN
SPRINT TELECOM
FIBER OPTIC ROUTE
RECORD DRAWING

SHEET 2 OF 2
SCALE: 1" = 50'



PROJECT NO.	YEAR	SHEET NO.
BR-STP-24(09)	2024	

[illegible]

NOTES

DESIGN SPECIFICATIONS: AASHTO LRFD 9TH EDITION 2020 WITH INTERIMS AND THE 2011 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION WITH INTERIMS. SEISMIC CATEGORY "B" WITH $AS = 0.152$, $SDS = 0.275$, $SD1 = 0.069$ (1000 YEAR RETURN PERIOD).

REQUIRED

1) SUFFICIENT GROUND, ROCK, AND CORING
INFORMATION FOR BRIDGE FOUNDATIONS.
2) APPROXIMATE EXISTING GROUND AND ROCK
LINE.

BENCHMARKS

BM = CP-S03
STATION 54+95.87 (STATE ROUTE 24)
47.49' (RIGHT)
N 599204.2366
E 2250123.6681
EL. 1745.70'

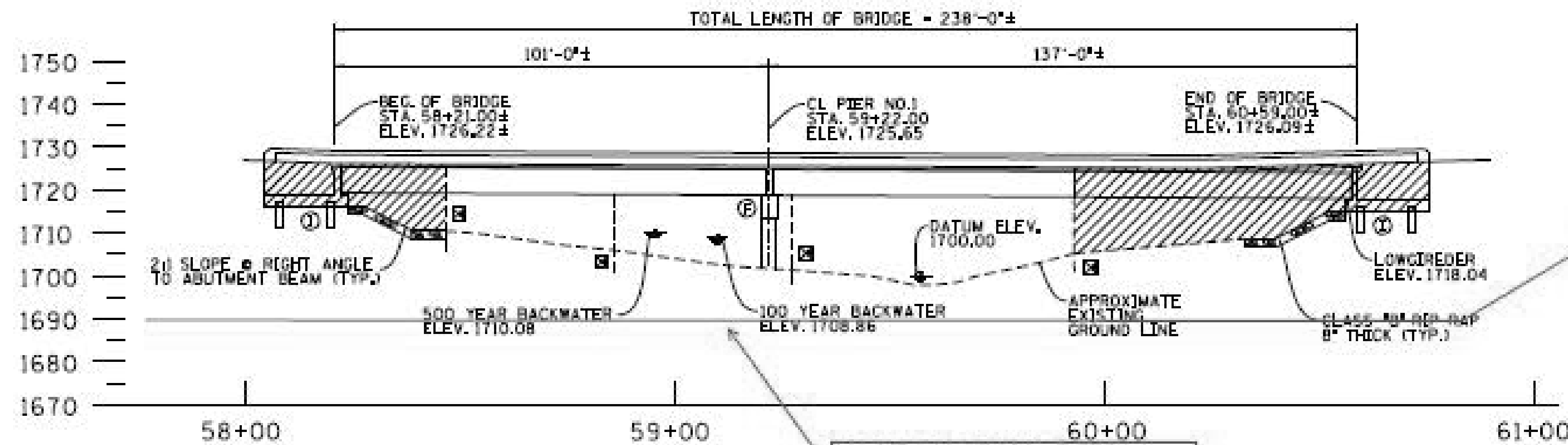
BM * CP-STR627
STATION 59+75.43 (STATE ROUTE 24)
27.03' (RIGHT)
N 598780.0060
E 2250330.4400
EL. 1702.71'

BM * CP-STR632
STATION 60+25.40 (STATE ROUTE 24)
-90.98' (LEFT)
N 598775.6100
E 2250458.5270
EL. 1718.77'

2047 ADT = 8300
44'-0" ROADWAY WITH STD-1-1SS PARAPETS
DESIGN SPEED = 45 mph

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

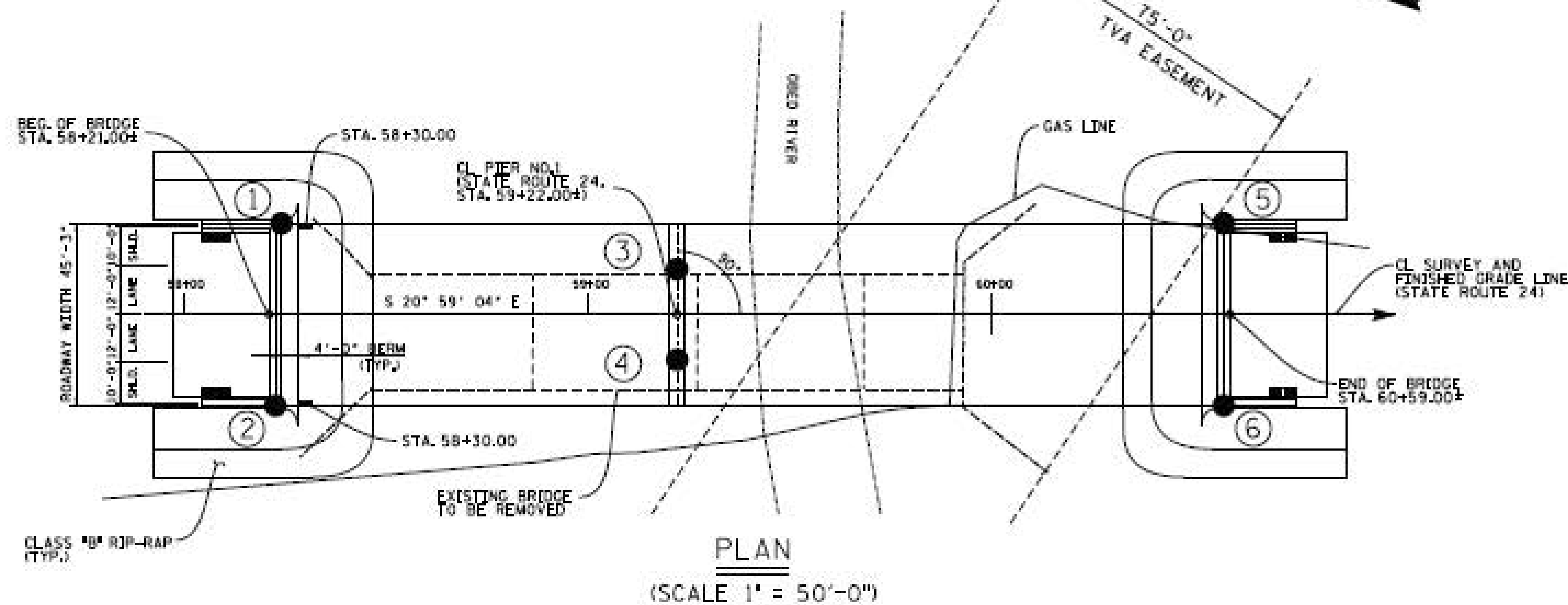
FOUNDATION DATA
STATE ROUTE 24
OVER
OBED RIVER
BRIDGE ID. NO. 18SR0240003
STATION 59+52.76
CUMBERLAND COUNTY
2024



- ① DENOTES: INTEGRAL.
 ② DENOTES: FIXED.
 ③ DENOTES: EXISTING BENTS.
 [Hatched Box] DENOTES: AREA TO BE EXCAVATED AND PAID FOR AS A ROADWAY ITEM.

ELEVATION

(SCALE 1" = 50'-0")



NOTE: THIS DRAWING
IS FOR FOUNDATION
DATA ONLY AND NOT
TO BE USED AS A
LAYOUT.

BORING NO.	STATION OFFSET	OFFSET DISTANCE	NORTH	EAST	GROUND ELEVATION	ROCK ELEVATION
1	58+22.50	22.625 LEFT	N 598940	E 2250322		
2	58+22.50	22.625 RIGHT	N 598924	E 2250279		
3	59+22.00	11.271 LEFT	N 598843	E 2250347		
4	59+22.00	11.271 RIGHT	N 598835	E 2250326		
5	60+57.50	22.625 LEFT	N 598721	E 2250406		
6	60+57.50	22.625 RIGHT	N 598704	E 2250363		

DESIGNED BY	BALDI ALBAPPAN	DATE	02-21
DRAWN BY		DATE	
SUPERVISED BY		DATE	
CHECKED BY		DATE	

CORRECT

David A. K...
OWNER OF STRUCTURE

ESTIMATED UTILITY QUANTITIES								
ITEM NO.	DESCRIPTION	UNIT		Project No. 1: 18008-2221-14				
				QUANTITY	% Utility	%Project	%Project	Amount
					Betterment	Public	Private	Betterment
795-03.05	6IN PVC WATER LINE	LF		450	0.00%	100.00%	0.00%	
795-03.07	10IN PVC WATER LINE	LF		450	0.00%	100.00%	0.00%	
795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EA		1	0.00%	100.00%	0.00%	
795-07.10	10IN X 10IN TAPPING SLEEVE AND VALVE	EA		2	0.00%	100.00%	0.00%	
795-08.04	6IN GATE VALVE ASSEMBLY	EA		1	0.00%	100.00%	0.00%	
795-08.06	10IN GATE VALVE ASSEMBLY	EA		3	0.00%	100.00%	0.00%	
795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EA		3	0.00%	100.00%	0.00%	
795-09.28	3/4IN COPPER SERVICE PIPE	LF		100	0.00%	100.00%	0.00%	
795-09.29	1IN COPPER SERVICE PIPE	LF		40	0.00%	100.00%	0.00%	
795-11.02	FIRE HYDRANT ASSEMBLY	EA		2	0.00%	100.00%	0.00%	
795-13.05	CREEK CROSSING #1	LS		1	0.00%	100.00%	0.00%	
795-15.02	12IN STEEL CASING PIPE OPEN CUT METHOD	LF		100	0.00%	100.00%	0.00%	
795-15.25	16IN STEEL CASING PIPE OPEN CUT METHOD	LF		50	0.00%	100.00%	0.00%	
795-06.30	CUT/CAP EXISTING LINES (ALL SIZES)	EA		3	0.00%	100.00%	0.00%	

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTIONS
U4-1	INDEX OF SHEETS & ESTIMATED QUANTITIES
U4-2	LEGEND & GENERAL NOTES
U4-3	RIGHT OF WAY NOTES
U4-4	EXISTING CONDITIONS
U4-5	STA. 5+07.32 TO STA. 17+30.00
U4-6	WATER DETAILS
U4-7	WATER DETAILS
U4-8	ROAD CROSSINGS

City of Crossville

Mr. Tim Begley, Director of Engineering

City of Crossville

392 North Main Street

Crossville, Tennessee 38555-4232

Phone: (931) 456-6172

Fax: (931) 484-7713

Email: tim.begley@crossvilletn.gov

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-1
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

SEALED BY



HUSSEY GAY BELL

Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF

CROSSVILLE, TENNESSEE

WATER

RELOCATION

INDEX OF SHEETS AND ESTIMATED QUANTITIES

SCALE: NTS

SYMBOLLOGY AND LIFESTYLES

EXISTING UTILITIES

<div><div></div><div>6"W</div></div> <div><div></div><div>6"W</div></div>	WATER
<div><div></div><div>6"G</div></div> <div><div></div><div>6"G</div></div>	GAS
<div><div></div><div>6"SA</div></div> <div><div></div><div>6"SA</div></div>	SEWER
<div><div></div><div>6"FMS</div></div> <div><div></div><div>6"FMS</div></div>	FORCE MAIN
<div><div></div><div>C(UG)</div></div> <div><div></div><div>C(UG)</div></div>	CABLE (UG)
<div><div></div><div>F(UG)</div></div> <div><div></div><div>F(UG)</div></div>	FIBER OPTIC (UG)
<div><div></div><div>P/T</div></div> <div><div></div><div>P/T</div></div>	POWER/TELEPHONE
<div><div></div><div>P</div></div> <div><div></div><div>P</div></div>	POWER
<div><div></div><div>P(UG)</div></div> <div><div></div><div>P(UG)</div></div>	POWER (UG)
<div><div></div><div>P/C</div></div> <div><div></div><div>P/C</div></div>	POWER/CABLE
<div><div></div><div>P/TV</div></div> <div><div></div><div>P/TV</div></div>	POWER/TV
<div><div></div><div>T/C</div></div> <div><div></div><div>T/C</div></div>	TELEPHONE/CABLE
<div><div></div><div>T</div></div> <div><div></div><div>T</div></div>	TELEPHONE
<div><div></div><div>T(UG)</div></div> <div><div></div><div>T(UG)</div></div>	TELEPHONE (UG)
<div><div></div><div>TV(UG)</div></div> <div><div></div><div>TV(UG)</div></div>	TELEVISION (UG)
<div><div></div><div>TV</div></div> <div><div></div><div>TV</div></div>	TELEVISION



G.M.

G.V.



S.V.

TEL. PED.



W.M.



W.V.

PROPOSED UTILITIES & MODIFICATIONS

<div><div></div><div>6"W</div></div>	PROPOSED WATER LINE
<div><div></div><div>6"W RIP</div></div>	EX. WATER LINE (RETIRED IN PLACE)
<div><div></div><div>6"W</div></div> <div><div></div><div>6"W</div></div> <div><div></div><div>6"W</div></div>	EX. WATER LINE (TO BE REMOVED)
<div><div></div><div>6"W</div></div>	EX. WATER LINE (TO REMAIN)
<div><div></div></div>	PROPOSED WATER VALVE
<div><div></div></div>	PROPOSED WATER REDUCER
<div><div></div></div>	PROPOSED WATER METER
<div><div></div></div>	PROPOSED HYDRANT

Project Notes

1.

All materials, methods, and/or integral materials outlined in the utility specifications or drawings necessary to provide a complete and functional installation must be included in the Unit Price for the associated Utility Work item.
2.

The contractor must maintain all services during the construction of the relocated facility. Any costs associated with installation of required temporary service lines due to the roadway construction sequence of work (i.e., cuts, fills, phasing, etc.) shall be included in the cost of the permanent utility items.
3.

It shall be the responsibility of the Contractor to lay out all the facilities being relocated within the contract with regards to horizontal and vertical location..
4.

For buried utilities, the contractor shall be required to provide to the Utility upon completion of the relocation work a set of as-built drawings for their records. These as-built drawings should be prepared as the installation progresses to ensure their accuracy.
5.

Driveway, sidewalk and roadway temporary restoration shall be part of the in-place cost of placing the utility item within the ROW.
6.

Any excavation of the stream channel area shall be separated from flowing water and accomplished during low flow conditions. This shall be accomplished by the use of flumes, lined diversion channel with sandbag berm, diversion pipe with sandbag dam at pipe inlet, or in some cases cofferdams. Alternatively, based on field conditions and contractor selection, the utility relocation may be accomplished using horizontal bore technology with no stream channel impacts.
7.

All water lines shall be installed with a minimum cover of 36", unless shown otherwise.
8.

Contractor shall verify locations and depths of all existing utilities prior to beginning construction. Coordinates shown for connections to existing water lines are approximate.
9.

Contractor shall verify locations and depths of all existing utilities prior to beginning road crossings and notify Engineer of any conflicts.
10.

Contractor to coordinate location of "Service Connections" with the City of Crossville as well as any and all cuts & caps on existing service lines.
11.

All 2" HDPE water line, Item #795-02.01 shall be used for "2" HDPE Casing Pipe Open Cut Method" installation.
12.

Item #795-03.10 10" PVC Water Line shall be used as a casing pipe for 6" PVC Water Line where minimum distances with other utility lines or drainage line that cannot be maintained.
13.

Elevations given for driveway/sideroads shall be maintained for entire width of the driveway/side road crossings.
14.

HDPE water lines shall extend a minimum of 5' past the end of casing.

NOTES FOR ESTIMATING COSTS OF BID ITEMS

WATER LINES
INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING, CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

INSTALLATION OF ALL FITTINGS USED IS TO BE INCLUDED IN THE BID PRICE OF THE PIPE. NO ADDITIONAL PAYMENT ITEM WILL BE SHOWN FOR FITTINGS.

HORIZONTAL DIRECTIONAL DRILLING
INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASSED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

CONNECTION TO EXISTING WATER LINE
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.

TAPPING SLEEVES AND VALVES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

WATER VALVES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.

MISCELLANEOUS ASSEMBLIES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPERATELY FOR EACH FOOT INSTALLED.

WATER SERVICE LINES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.

LUMP SUM ITEMS
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF UNIT OR LUMP SUM ITEM AS SPECIFIED ON BID FORM..

REMOVAL
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR REMOVAL OF ITEM.

CASING PIPE - BORE AND JACK INSTALLATION
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

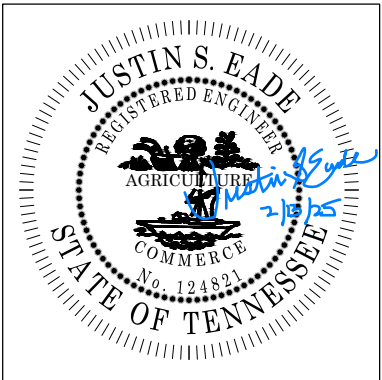
CASING PIPE - OPEN CUT INSTALLATION
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-2
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

SEALED BY



HUSSEY GAY BELL

Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615-460-7515

THE CITY OF
CROSSVILLE, TENNESSEE

WATER
RELOCATION

LEGEND AND GENERAL NOTES

SCALE: NTS

RIGHT-OF-WAY

- (1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
- (2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S 'POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- (8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

- (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.

UTILITY OWNERS

CABLE:
CHARTER COMMUNICATIONS
38 WEST BROAD STREET
COOKEVILLE, TN 38501
CONTACT: MR. LESTER HAFFNER
OFFICE PHONE: 931 676 0406
FAX: 931 644 5705
Email: Leslie.haffner@charter.com

ELECTRIC:
VOLUNTEER ENERGY COOPERATIVE
P.O. BOX 277
DECATUR, TN 37322
CONTACT: MR. MATTHEW TEAGUE
OFFICE PHONE: 423 334 7040
FAX 423 334 7005

GAS:
MIDDLE TENNESSEE NATURAL GAS
P.O. BOX 670
SMITHVILLE, TN 37166
CONTACT: MR. MATTHEW WHITAKER
OFFICE PHONE: 615 597 0513
FAX 615 597 6331

TELEPHONE:
FRONTIER/CITIZENS COMMUNICATIONS COMPANY
174 SPARTA HIGHWAY
CROSSVILLE, TN 38572
CONTACT: MR. JIM HEATHERLY
OFFICE PHONE: 865 947 8200

CABLE:
FIBER OPTICS: VOLFIRST
P.O. BOX 670
MCMINNVILLE, TN 37111
CONTACT: MR. RICHARD BOYD
OFFICE PHONE: 931 668 6692
FAX 931 668 7653
Email: Rboyd@blomed.net

WATER:
CITY OF CROSSVILLE
392 NORTH MAIN STREET
CROSSVILLE, TN 38555-4232
CONTACT: MR. TIM BEGLEY
OFFICE PHONE: 931 456 5680
FAX: 931 484 7713

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-3
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

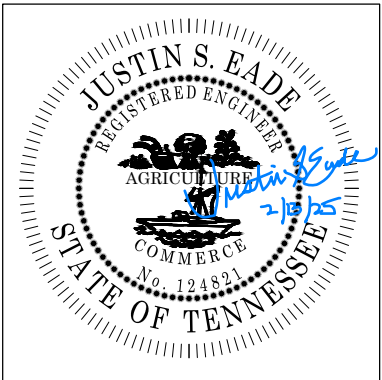
UTILITY

- (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.

R.O.W. ACQUISITION TABLE																	
TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION (1)	AIR RIGHTS
				BOOK	PAGE												
1	FRED STOUT	871	005.00	1493	692	1.010		1.010				1.010					
2	FRED STOUT	871	006.00	1493	692	1.040		1.040				1.040					
3	JAMES JOSEPH MITCHELL	086	057.00	285	788		115.910	115.910					115.910				
4	TONY PAGE AND KARI PAGE, HUSBAND AND WIFE	0871 A	015.00	1603	630	33.260		33.260				33.260				0.290	
5	VONDA M NEWBY AND HUSBAND CHARLES R NEWBY	087	053.00	1327	678		4.300	4.300					4.300				
6	SHARON A SHELLEY AND ROBIN L JONES	087	054.00	1236	1981		3.330	3.330		0.136	0.136		3.194				
7	CUMBERLAND COUNTY	087	59.00	1262	1312	67.030		67.030	0.349		0.349	66.681					
8	JOHN E. BARNWELL AND TINA L. BARNWELL, HUSBAND AND WIFE	087	055.00	1669	1821		2.070	2.070		0.151	0.151		1.919				
9	DOROTHY L. LILLY	087	056.00	1300	1976		2.020	2.020		2864 S.F.	2864 S.F.		1.954				
ACQUISITION TOTALS (ACRES)										0.702						0.290	

- (1) ESMT. NEEDED FOR HAUL ROAD.

SEALED BY



HUSSEY GAY BELL

Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615-440-7515

THE CITY OF
CROSSVILLE, TENNESSEE

WATER
RELOCATION

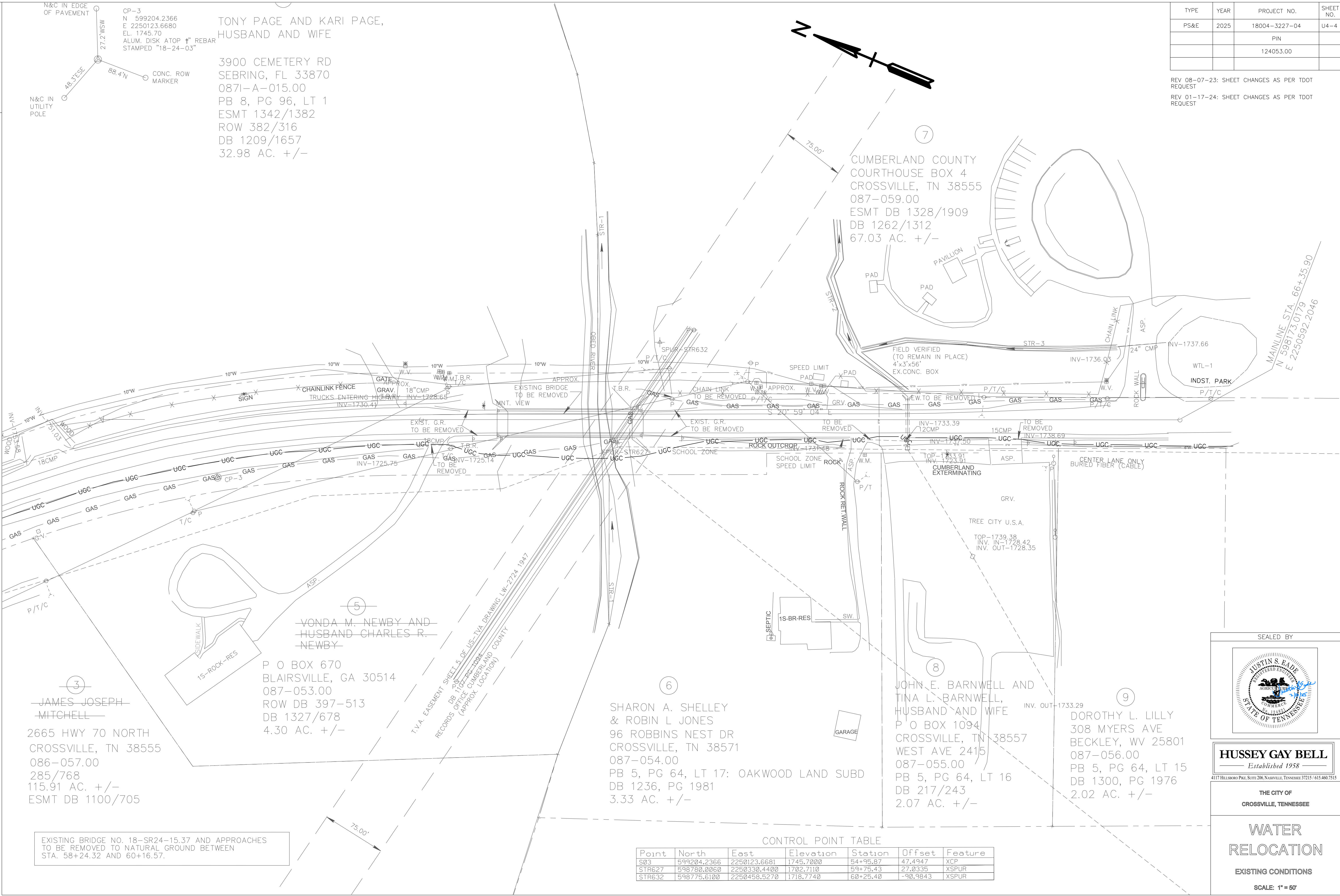
R.O.W. AND UTILITY NOTES, UTILITY OWNERS, & R.O.W. AQUISITION

SCALE: NTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-4
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT
REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT
REQUEST



Point	North	East	Elevation	Station	Offset	Feature
S03	599204.2366	2250123.6681	1745.7000	54+95.87	47.4947	XCP
STR627	598780.0060	2250330.4400	1727.710	59+75.43	27.0335	XSPUR
STR632	598775.6100	2250458.5270	1718.7740	60+25.40	-90.9843	XSPUR

REV 08-07-23: SHEET CHANGES AS PER TDOT
REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT
REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT
REQUEST

STA. 66+00.00
N 598206.5356 E 2250579.3489

STA. 55+35.00
N 599193.4366 E 2250181.4361

STA. 57+24.00
N 599024.3769 E 2250265.4920

PROPOSED CONST. ESMT.

27

FILL

S 20° 59' 04" E

25' R

60' x 18' S.D. CUT

66' x 18' S.D. CUT

66' x 18' S.D. CUT

STA. 00+00 - WL#1
N-598690.6520
E-2250461.3080
CONNECT TO EX. 10" WATER LINE
SEE DETAIL #3 - THIS SHEET
INSTALL :
TEST PORT TO BE DETERMINED BY
ENGINEER/IN FIELD
10" TAPPING SLEEVE & VALVE
10" CUT & CAP

STREAM CROSSING *1
(OPEN CUT)
SEE CROSSING DETAIL
SHEET U3-7A
40 LF - 16" STEEL CASING
10' MIN FROM EDGE OF BANK
TOP OF CASING EL 1716.00

STA. 02+44 - WL+1
N=598462.7218
E=2250548.5635
INSTALL :
10" TEE
3 - 10" GATE VALVES

STA. 04+34 - WL*1
N=598280.0103
E=2250600.8394
INSTALL :
FIRE HYDRANT ASSEMBLY

STA. 04+48 - WL*1
N=598266.8629
E=2250604.6010
SEE DETAIL *1 - THIS SHEET
INSTALL :
10" TAPPING SLEEVE & VALVE
10" CUT & CAP

2. NO. 3 7'X7' M.H.
63:16.81
Elev 734.43

STA. 03+82 - WL*2
N=598200.2982
E=22505+8.1212
SEE DETAIL *2 - THIS SHEET
INSTALL :
6" TAPPING SLEEVE & VALVE
6" CUT & CAP

STA. 65+55.00
N 598248.5498 E 2250563.2343

STA. 00+64 - WL*3
N=598475.9792
E=2250404.4441
INSTALL :
FIRE HYDRANT ASSEMBLY
ON PROPERTY LINE

PROPOSED 6" PVC CLASS 250
WATER LINE NO.3

STA. 00+00 - WL*2
STA. 00+00 - WL*3
N=598417.5995
E=2250430.9200
INSTALL :
6" TEE
6" GATE VALVE

SEALD BY



HUSSEY GAY BELL
— Established 1958 —

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF
CROSSVILLE, TENNESSEE

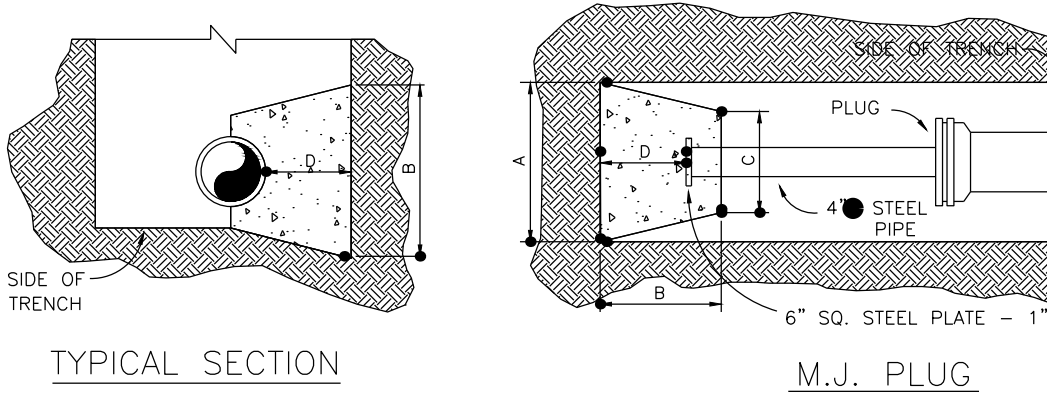
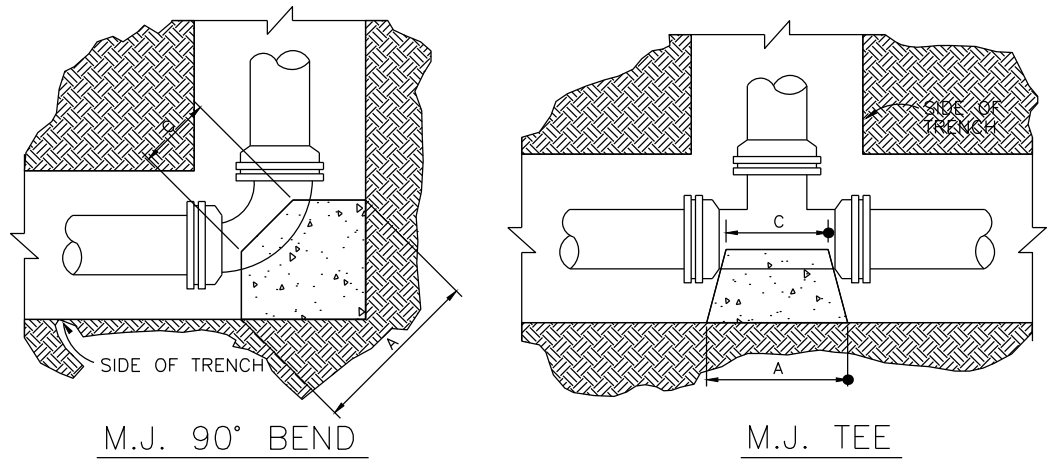
WATER ELOCATION

STA. 55+00 TO STA. 66+35.89

SCALE: 1" = 50'



DETAIL #3
SHEET U3-5



TEE									
SIZE	2"	4"	6"	8"	10"	12"	12"	12"	18"
Main	2"- 6"	8"- 12"	8"- 10"	12"	12"	12"	12"	12"	18"
Branch	2"- 6"	2"- 6"	8"- 10"	2"- 6"	8"- 10"	12"	16"	16"	18"
A	26"	26"	43"	26"	43"	52"	70"		
B	26"	26"	43"	26"	43"	52"	70"		
C	12"	12"	12"	12"	12"	12"	30"		
D	13"	13"	21"	13"	21"	26"	24"		

PLUG									
SIZE	2"	4"	6"	8"	10"	12"	18"		
A	26"	26"	26"	34"	43"	52"	70"		
B	26"	26"	26"	34"	43"	52"	70"		
C	12"	12"	12"	12"	12"	12"	30"		
D	11"	11"	11"	15"	22"	32"	32"		

M.J. 45°- 22 1/2°- 11 1/4° BENDS

90° BEND									
SIZE	2"	4"	6"	8"	10"	12"	18"		
A	16"	16"	26"	33"	40"	50"	70"		
B	16"	16"	24"	33"	40"	50"	70"		
C	9"	9"	12"	12"	15"	16"	22"		
D	8"	8"	12"	16"	20"	25"	24"		

45° BEND									
SIZE	2"	4"	6"	8"	10"	12"	18"		
A	12"	12"	18"	24"	31"	37"	52"		
B	12"	12"	18"	24"	31"	37"	52"		
C	8"	8"	10"	12"	14"	16"	14"		
D	6"	6"	9"	12"	15"	18"	18"		

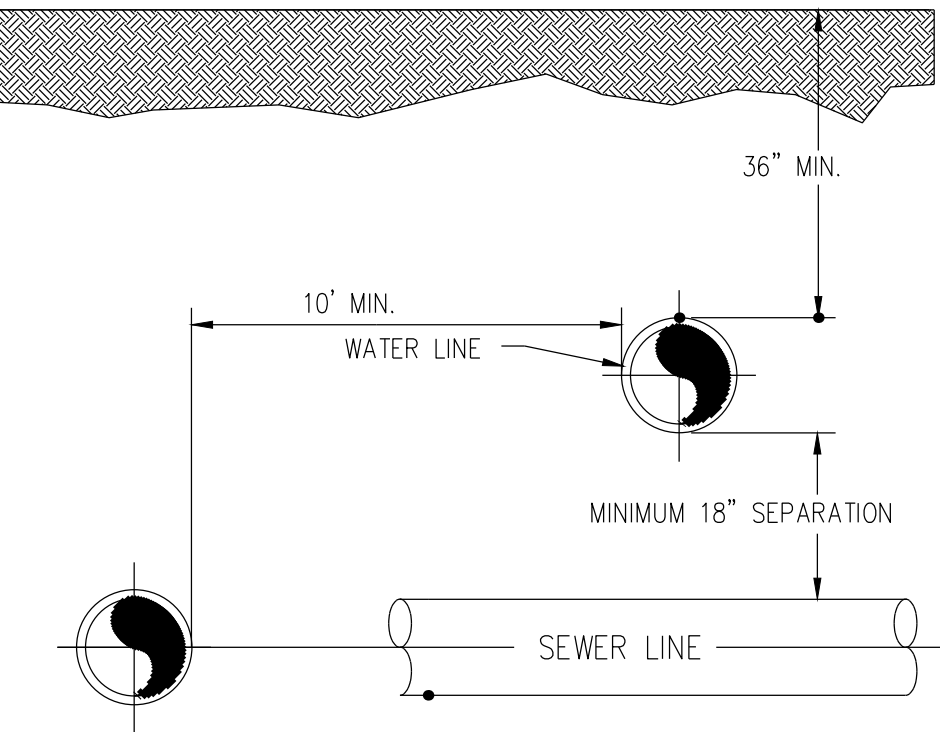
22-1/2° BEND									
SIZE	2"	4"	6"	8"	10"	12"	18"		
A	9"	9"	13"	18"	23"	26"	40"		
B	9"	9"	13"	18"	23"	26"	40"		
C	8"	8"	10"	12"	14"	16"	15"		
D	4"	4"	6"	8"	9"	11"	13"		

11-1/4° BEND									
SIZE	2"	4"	6"	8"	10"	12"	18"		
A	9"	9"	11"	13"	16"	18"	30"		
B	9"	9"	11"	13"	16"	18"	30"		
C	8"	8"	10"	12"	14"	16"	15"		
D	4"	4"	5"	6"	8"	9"	16"		

THRUST BLOCK DETAILS & DIMENSIONS

NOTE: M.J. = MECHANICAL JOINT.

THRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH.



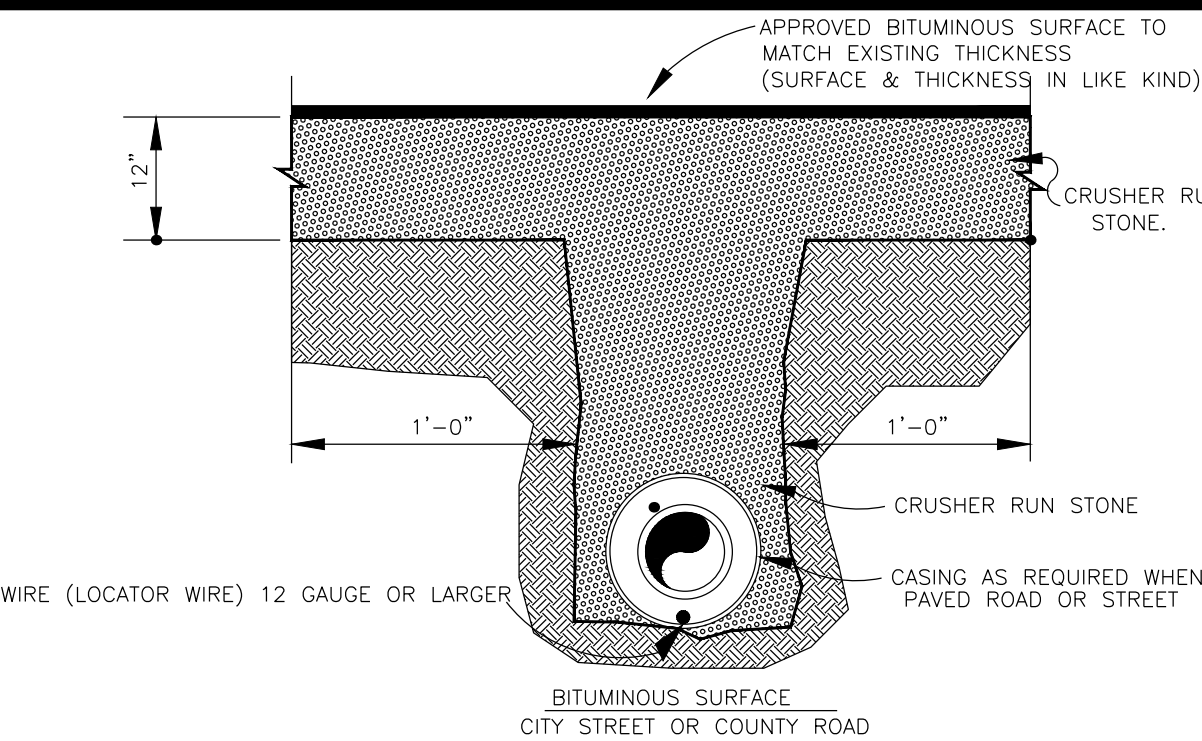
SEPARATION OF PIPED UTILITIES

NOT TO SCALE

NOTE:

1. CLASS 250 PSI PIPE SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. LOCATOR WIRE SHALL BE PLACED IN CASING WITH CARRIER PIPE.
3. TRENCHES SHALL BE OPENED SUFFICIENTLY TO ALLOW INSTALLATION AND REMOVAL OF CARRIER PIPE IN MANUFACTURED LENGTHS FROM EITHER END OF THE CASING PIPE.
4. SPACERS SHALL BE USED IN ALL CASINGS WHERE CARRIER PIPE IS 2" OR GREATER. SPACERS SHALL BE A MAXIMUM OF 7 FEET AND WITHIN 2' OF EACH BELL APART WITH A MINIMUM 2 INCH SPACE BETWEEN THE CASING AND THE CARRIER PIPE.

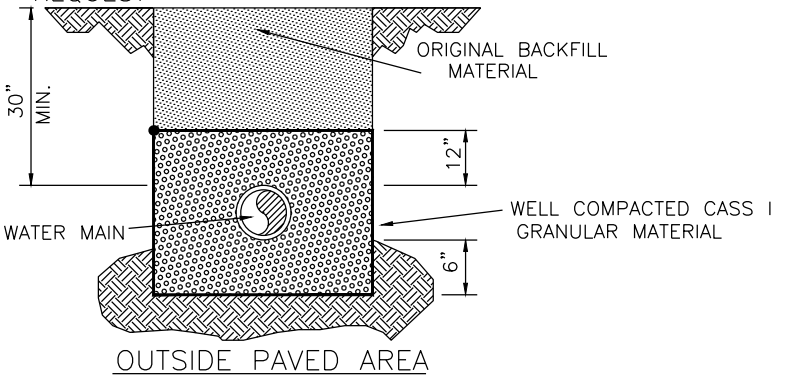
STEEL CASING SHALL BE USED IN ALL BORE AND JACK CROSSINGS, AND WHEN THE THE TOP OF THE CASING PIPE IS LESS THAN 24" BELOW ROAD SURFACE OR WHEN THE THE CASING SHALL BE INSTALLED GREATER THAN 7' DEEP FROM ROAD SURFACE.. STEEL CASING SHALL HAVE A MINIMUM CLEARANCE OF 2 INCHES BETWEEN CASING AND CARRIER PIPE. SPACERS SHALL BE INSTALLED NO MORE THAN 18" FROM EITHER END OF CASING.



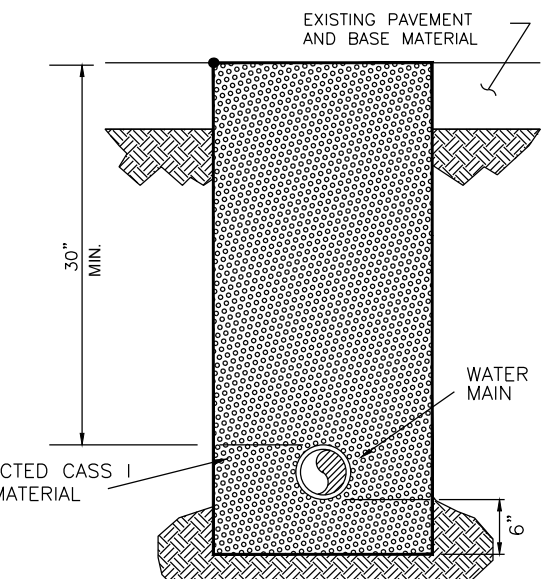
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-6
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

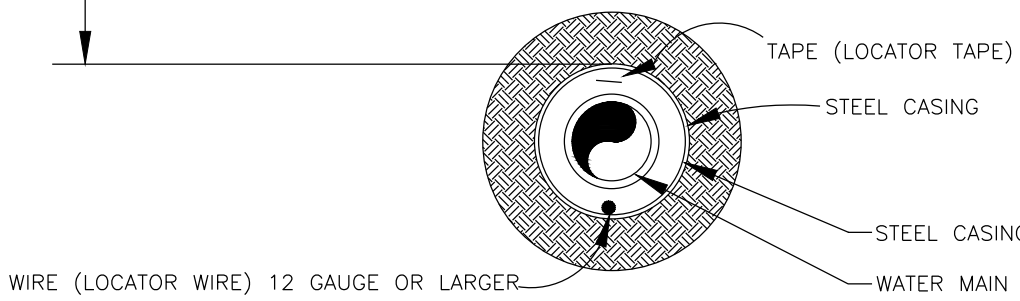
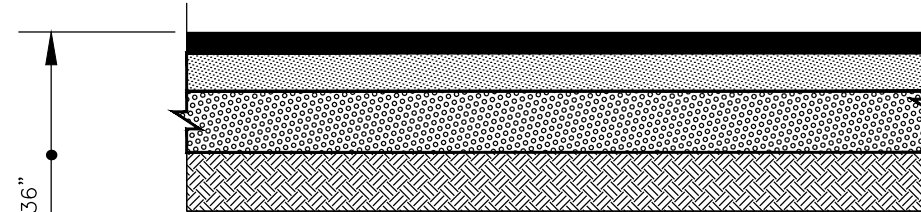
REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST



OUTSIDE PAVED AREA



INSIDE PAVED AREA



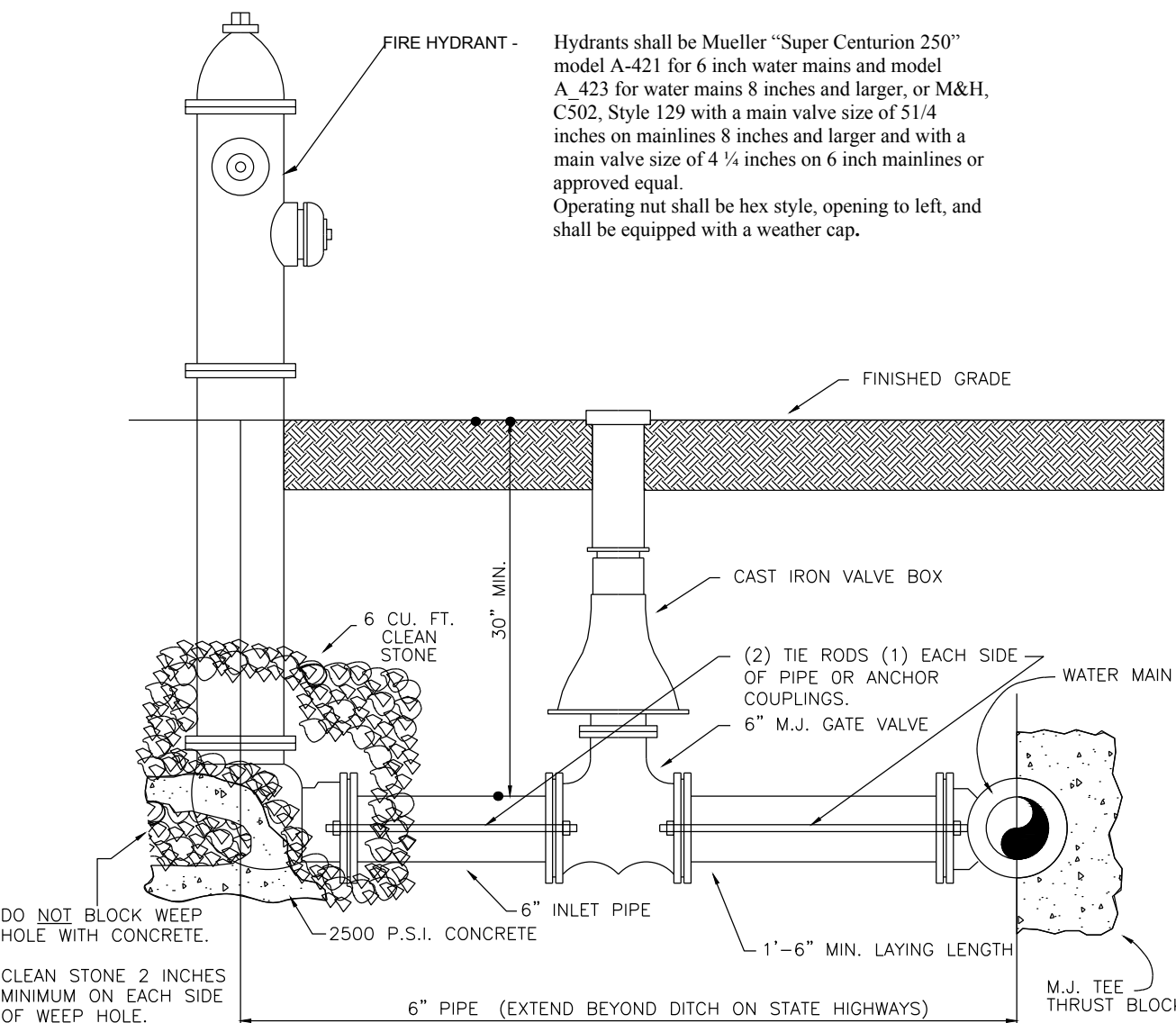
BITUMINOUS SURFACE

ROAD BORE

BACKFILL

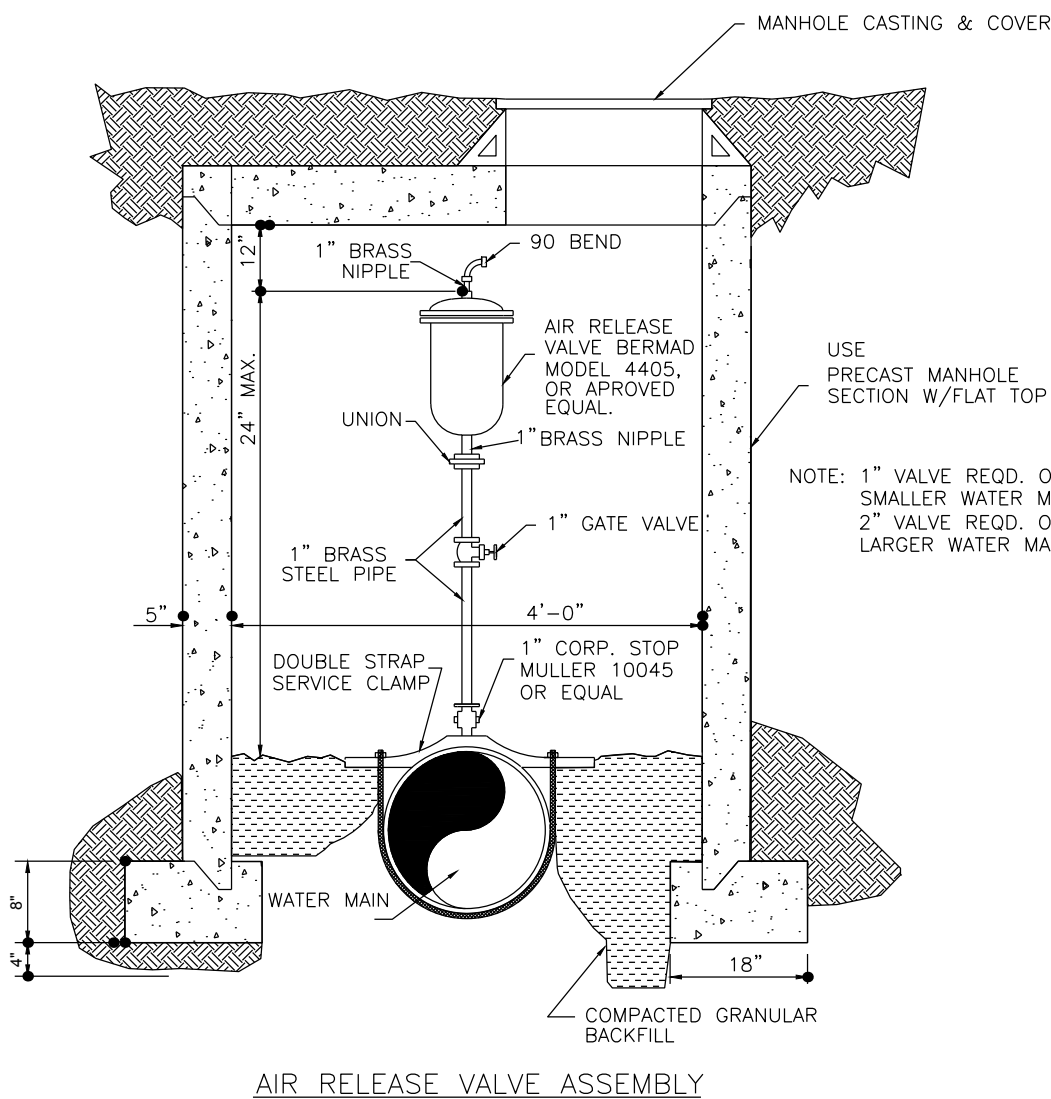
NOTE: METALIC LOCATOR TAPE LABELED "WATER" TO BE PLACED IN TRENCH 6" - 8" ABOVE WATER MAIN

LOCATOR WIRE (12 GAUGE OR LARGER) TO BE PLACED IN BOTTOM OF DITCH.



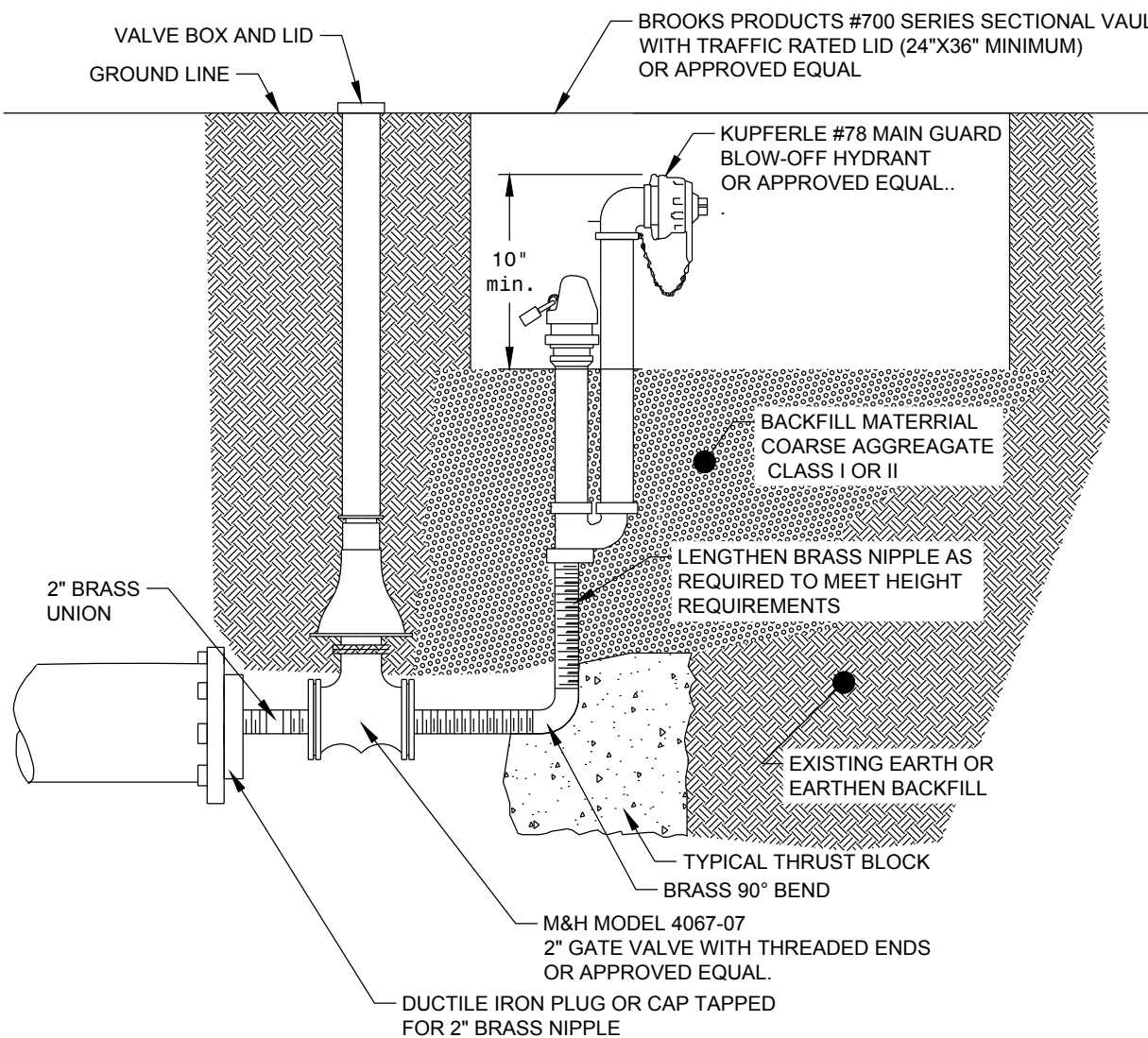
FIRE HYDRANT ASSEMBLY

NOT TO SCALE



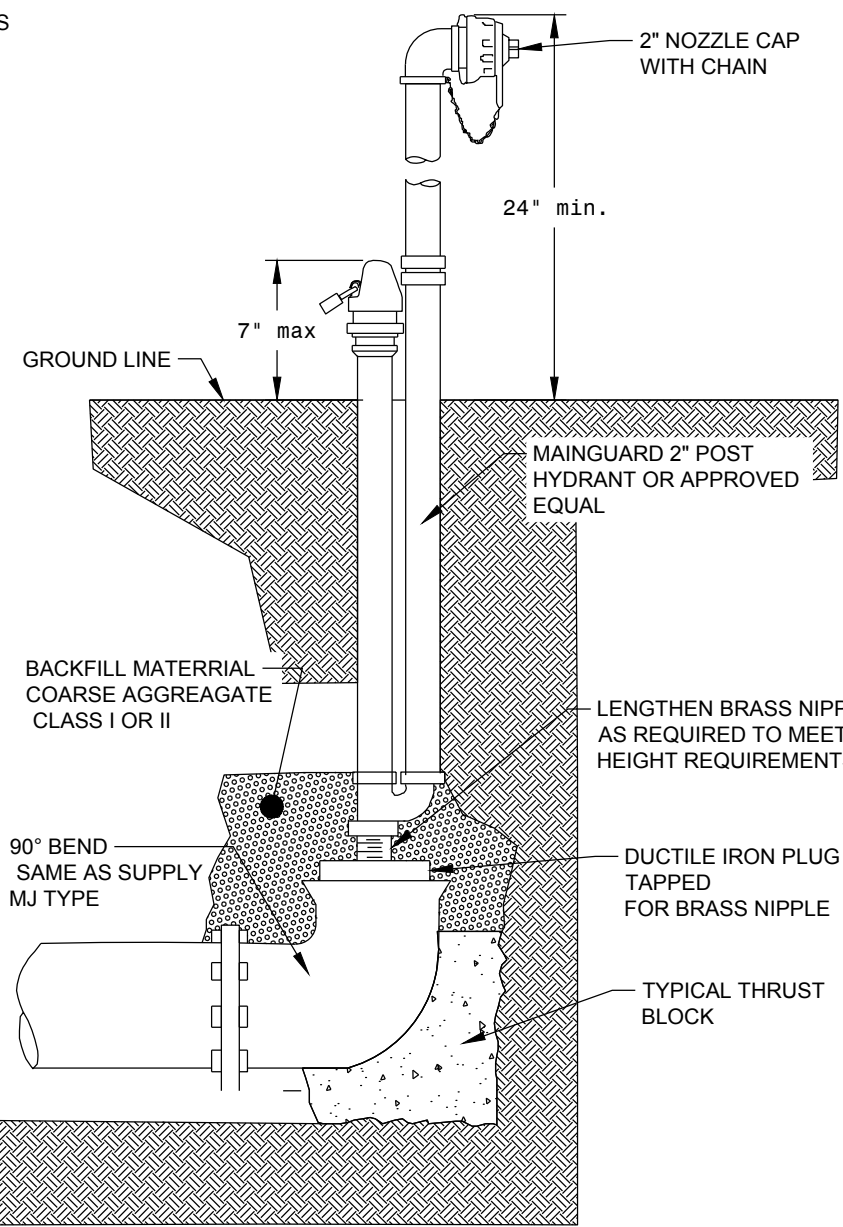
AIR RELEASE VALVE ASSEMBLY

NOT TO SCALE



HIDDEN BLOW-OFF HYDRANT DETAIL

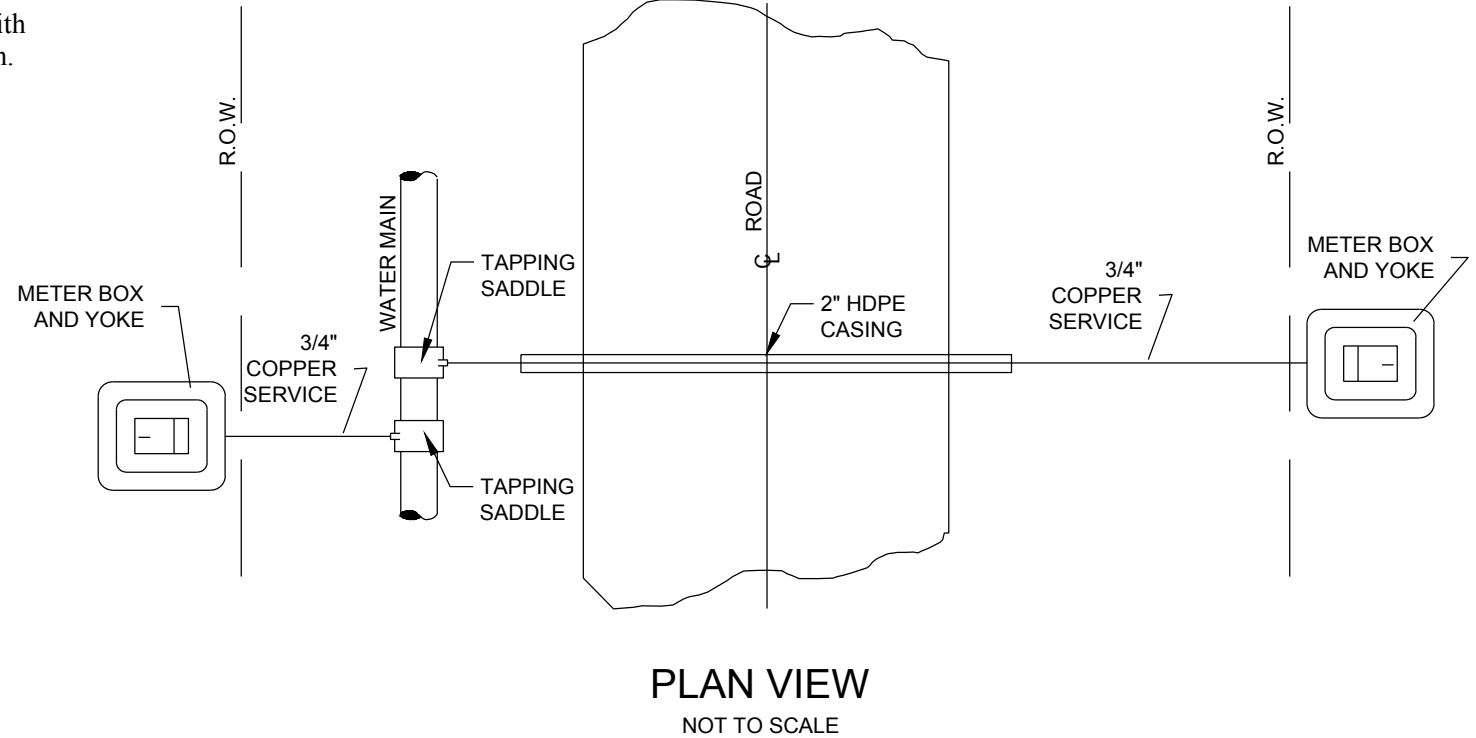
NOT TO SCALE



BLOW-OFF HYDRANT DETAIL

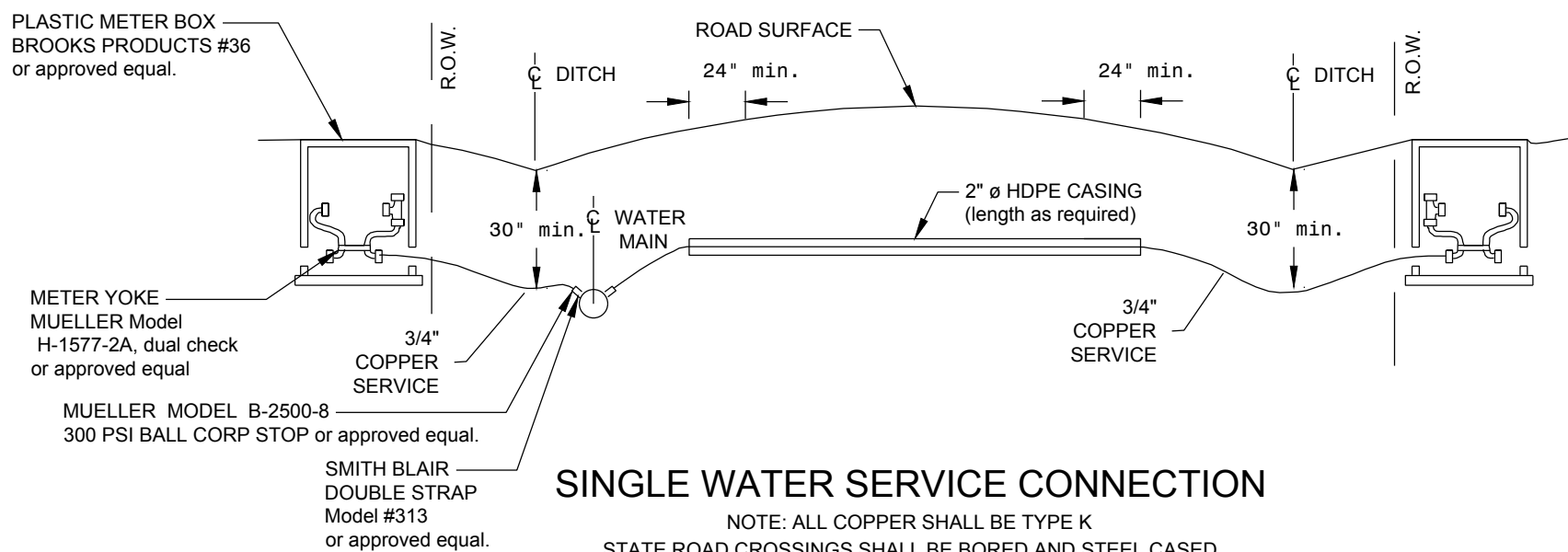
NOTE: DO NOT BLOCK WEEP HOLE WITH CONCRETE.

All meters shall be equipped with Radio Read Technology by Itron.



PLAN VIEW

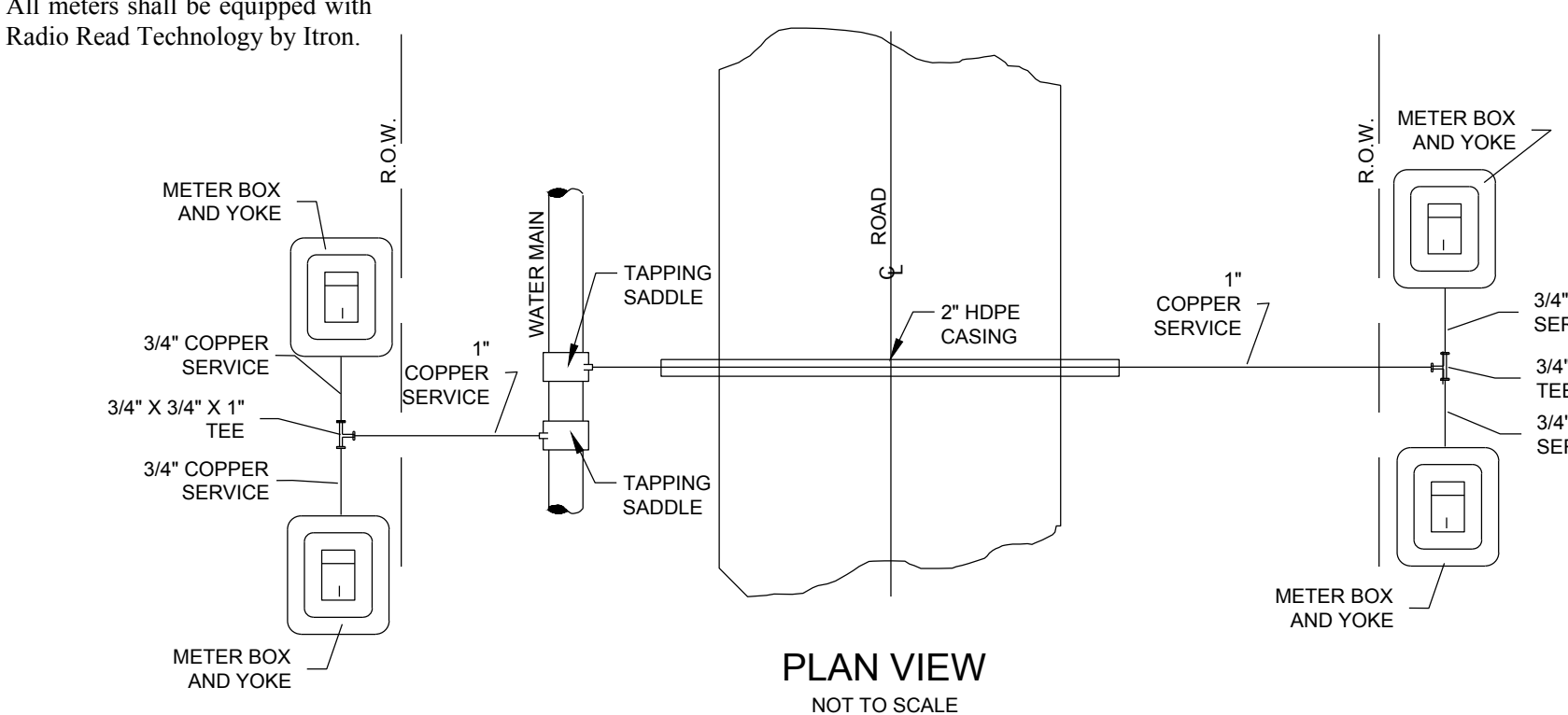
NOT TO SCALE



SINGLE WATER SERVICE CONNECTION

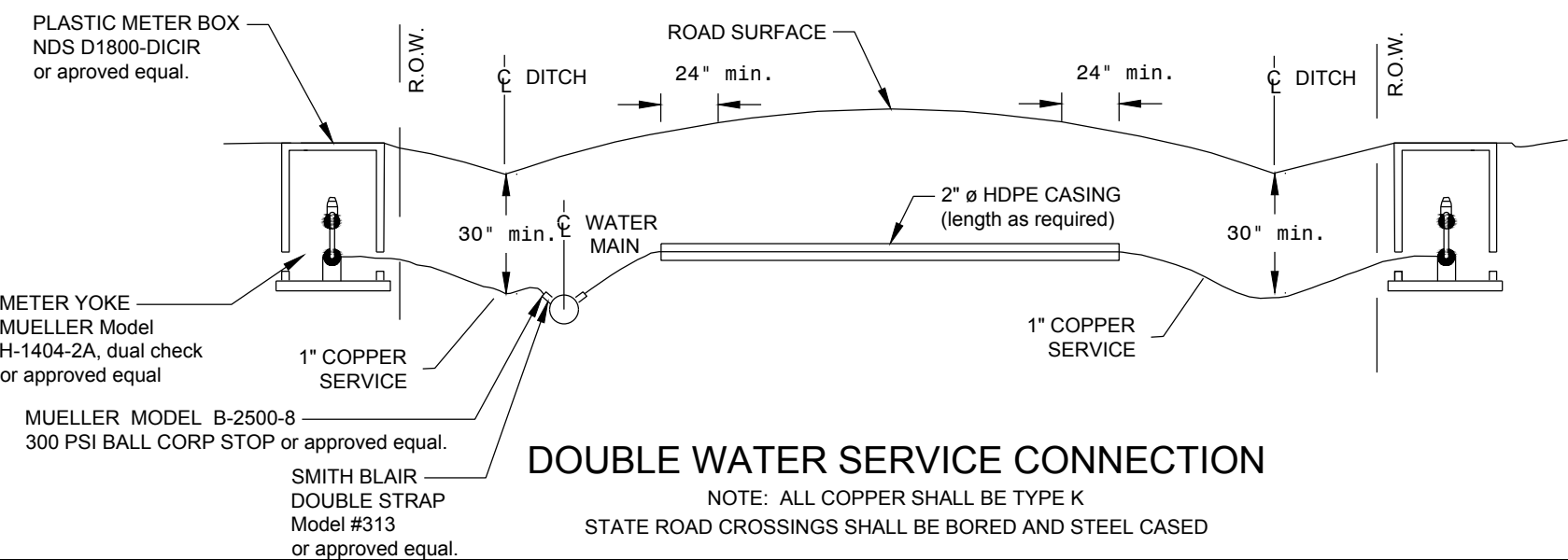
NOTE: ALL COPPER SHALL BE TYPE K STATE ROAD CROSSINGS SHALL BE BORED AND STEEL CASED

All meters shall be equipped with Radio Read Technology by Itron.



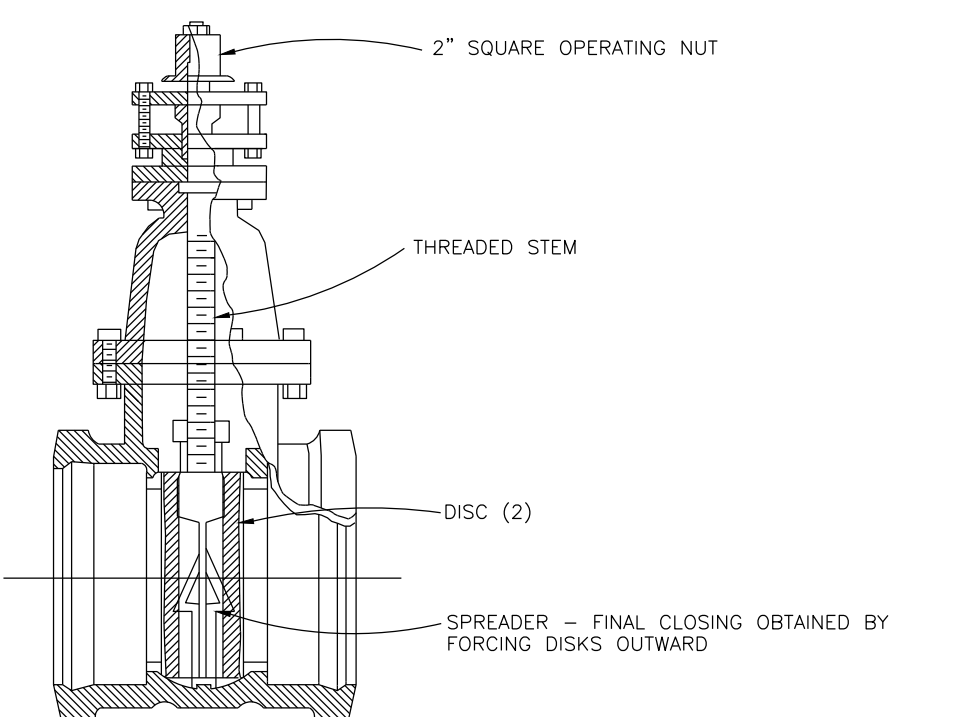
PLAN VIEW

NOT TO SCALE



DOUBLE WATER SERVICE CONNECTION

NOTE: ALL COPPER SHALL BE TYPE K STATE ROAD CROSSINGS SHALL BE BORED AND STEEL CASED

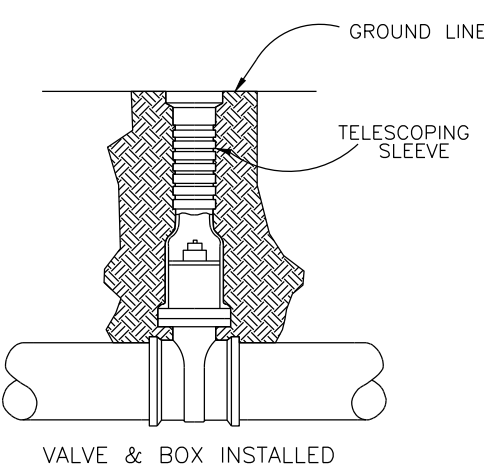


GATE VALVE SECTION

(CLOSED) GATE VALVES SHALL BE (AWWA STANDARD 508) MUELLER OR APPROVED EQUAL

TAPPING SLEEVES SHALL BE MUELLER H-615 OR APPROVED EQUAL.

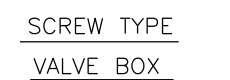
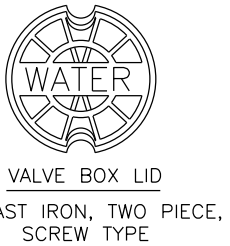
TAPPING VALVES SHALL BE MUELLER T-2360-16 OR APPROVED EQUAL FOR SIZES UP TO 12 INCHES MUELLER H-667 FOR 14 INCH THROUGH 24 INCH OR APPROVED EQUAL.



VALVE & BOX INSTALLED

NOT TO SCALE

NOTE: WHENEVER A WATER VALVE IS ADJACENT TO A TEE IN THE WATER LINE THE WATER VALVE SHALL BE ATTACHED TO THE TEE USING RODDING OR ALL THREAD.



Bouchard No. 8006, Roadway Type, Nashville Standard or approved equal. The cover shall be marked "WATER".

SEALED BY



HUSSEY GAY BELL Established 1958

8117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF CROSSVILLE, TENNESSEE

WATER RELOCATION

WATER DETAILS

SCALE: NTS

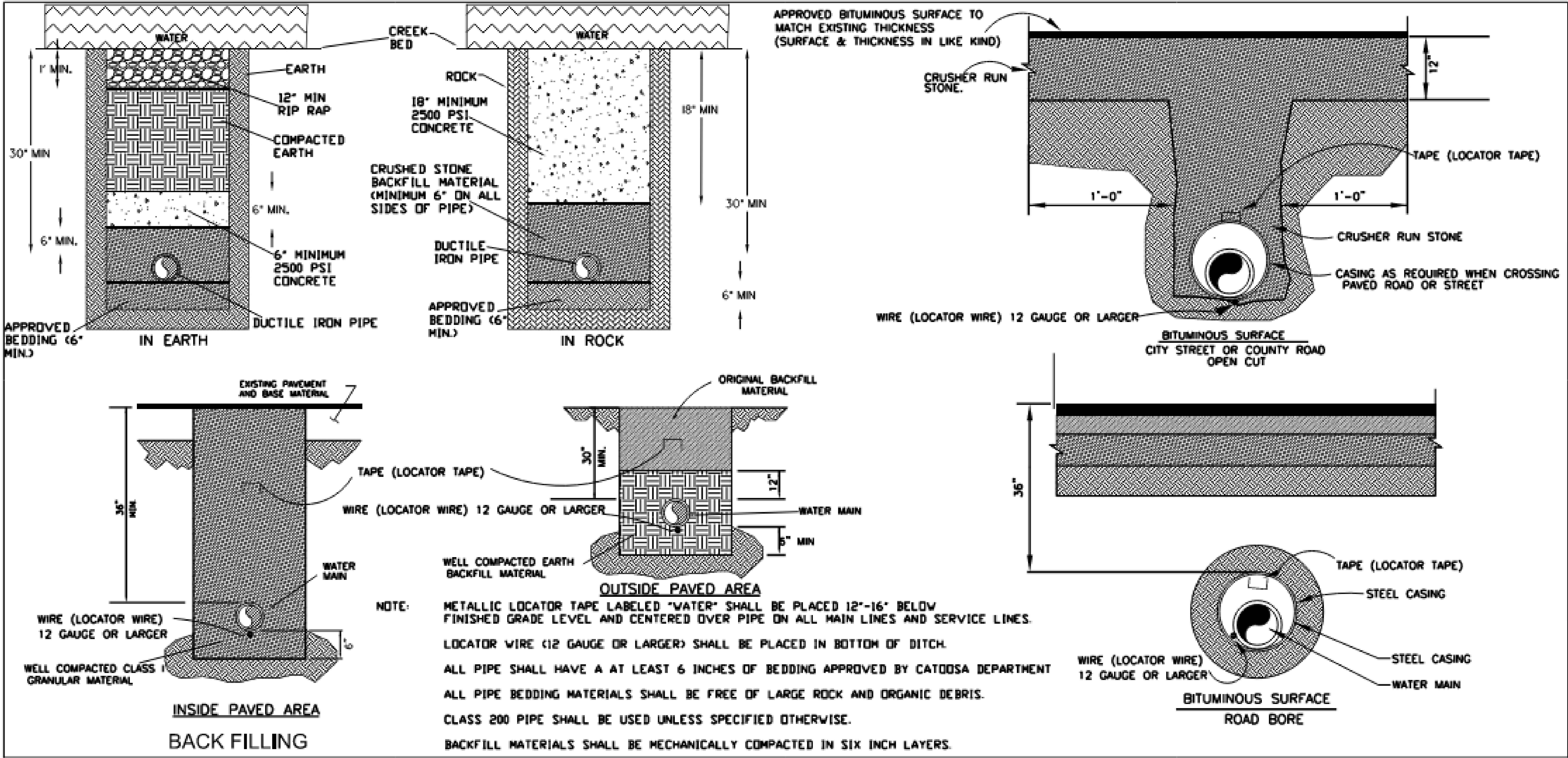
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-7
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

TYPICAL STREAM CROSSING

NO SCALE



SEALED BY

HUSSEY GAY BELL
Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF
CROSSVILLE, TENNESSEE

WATER
RELOCATION

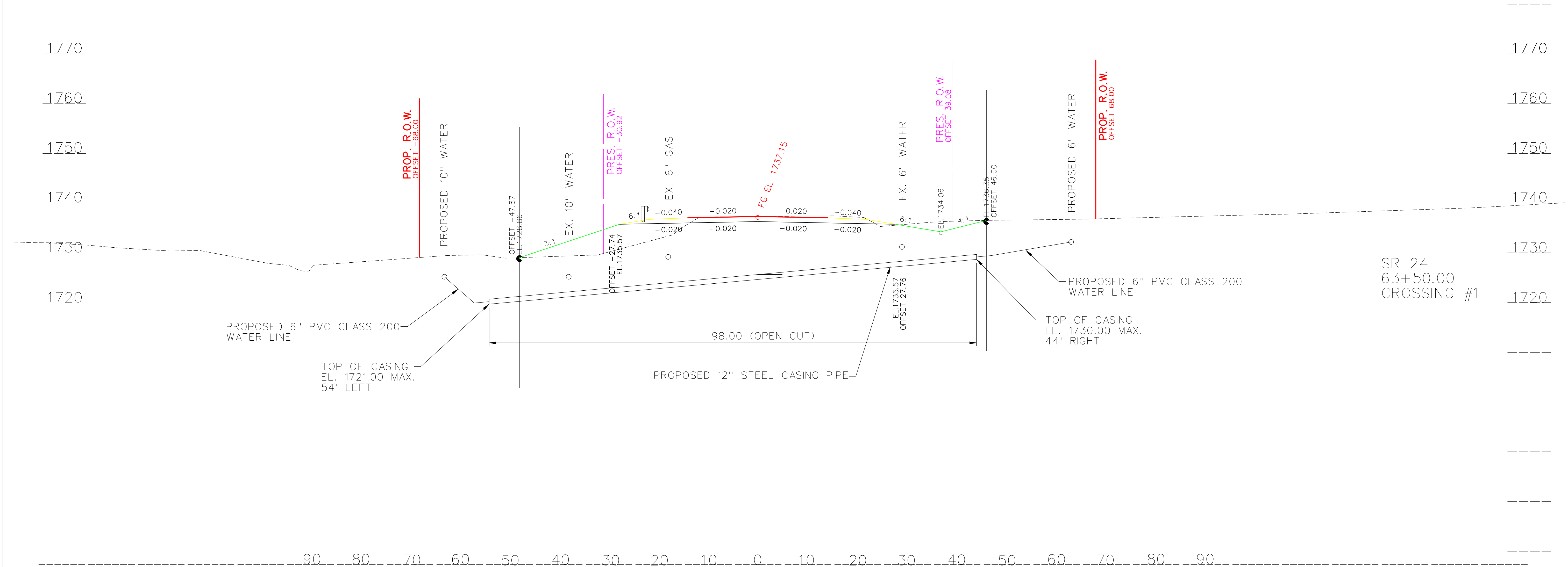
WATER DETAILS

SCALE: NTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-8
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST



SEALED BY



HUSSEY GAY BELL
Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF
CROSSVILLE, TENNESSEE

**WATER
RELOCATION**

ROAD CROSSING

SCALE: 1" = 10' HORIZ. AND VERT.

ESTIMATED UTILITY QUANTITIES								
ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	Project No. 1: 18002-3233-94				Amount
				QUANTITY	% Utility	%Project	%Project	
					Betterment	Public	Private	
797-09.46	CUT AND CAP 6IN FORCE MAIN	EA		1	0.00%	100.00%	0.00%	\$0.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U5-1
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

SEALING AREA

SEALING AREA

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7315

HUSSEY GAY BELL

Established 1958

THE CITY OF

CROSSVILLE, TENNESSEE

SEWER

RELOCATION

INDEX OF SHEETS AND ESTIMATED QUANTITIES

SCALE: NTS

INDEX OF DRAWINGS

SHEET NO.

DESCRIPTIONS












































U5-1	INDEX OF SHEETS & ESTIMATED QUANTITIES
U5-2	LEGEND & GENERAL NOTES
U5-3	RIGHT OF WAY NOTES
U5-4	EXISTING CONDITIONS
U5-5	STA. 5+07.32 TO STA. 17+30.00
U5-6	SEWER DETAILS

City of Crossville









Mr. Tim Begley, Director of Engineering
City of Crossville
392 North Main Street
Crossville, Tennessee 38555-4232
Phone: (931) 456-6172
Fax: (931) 484-7713
Email: tim.begley@crossvilletn.gov

SYMBOLLOGY AND LIFESTYLES

EXISTING UTILITIES

	6"W		WATER
	6"G		GAS
	6"SA		SEWER
	6"FMS		FORCE MAIN
	C(UG)		CABLE (UG)
	F(UG)		FIBER OPTIC (UG)
	P/T		POWER/TELEPHONE
	P		POWER
	P(UG)		POWER (UG)
	P/C		POWER/CABLE
	P/TV		POWER/TV
	T/C		TELEPHONE/CABLE
	T		TELEPHONE
	T(UG)		TELEPHONE (UG)
	TV(UG)		TELEVISION (UG)
	TV		TELEVISION
			FIRE HYDRANT
	G.M.		GAS METER
	G.V.		GAS VALVE
			MANHOLE
			SEWER MANHOLE
	S.V.		SEWER VALVE
	TEL. PED.		TELEPHONE PEDESTAL
			POWER POLE
			POWER POLE w/LIGHT
	W.M.		WATER METER
	W.V.		WATER VALVE

PROPOSED UTILITIES & MODIFICATIONS

	6"W		PROPOSED WATER LINE
	6"W RIP		EX. WATER LINE (RETIRED IN PLACE)
	6"W		EX. WATER LINE (TO BE REMOVED)
	6"W		EX. WATER LINE (TO REMAIN)
			PROPOSED WATER VALVE
			PROPOSED WATER REDUCER
			PROPOSED WATER METER
			PROPOSED HYDRANT

Project Notes

- All materials, methods, and/or integral materials outlined in the utility specifications or drawings necessary to provide a complete and functional installation must be included in the Unit Price for the associated Utility Work item.
- The contractor must maintain all services during the construction of the relocated facility. Any costs associated with installation of required temporary service lines due to the roadway construction sequence of work (i.e., cuts, fills, phasing, etc.) shall be included in the cost of the permanent utility items.
- It shall be the responsibility of the Contractor to lay out all the facilities being relocated within the contract with regards to horizontal and vertical location.
- For buried utilities, the contractor shall be required to provide to the Utility upon completion of the relocation work a set of as-built drawings for their records. These as-built drawings should be prepared as the progresses to ensure their accuracy.
- Driveway, sidewalk and roadway temporary restoration shall be part of the in-place cost of placing the utility item within the ROW.
- Any excavation of the stream channel area shall be separated from flowing water and accomplished during low flow conditions. This shall be accomplished by the use of flumes, lined diversion channel with sandbag berm, diversion pipe with sandbag dam at pipe inlet, or in some cases cofferdams. Alternatively, based on field conditions and contractor selection, the utility relocation may be accomplished using horizontal bore technology with no stream channel impacts.
- All sewer lines shall be installed with a minimum cover of 36",unless shown otherwise.
- Coordinates and elevations shown for connections to existing sewer lines are approximate.
- Contractor shall verify locations and depths of all existing utilities prior to beginning road crossings and notify Engineer of any conflicts.
- Contractor to coordinate location of "Service Connections" with the City of Crossville.

NOTES FOR ESTIMATING COSTS OF BID ITEMS

SEWER LINES OR FORCE MAINS
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, FITTINGS, THRUST BLOCKING, PIPE FUSION, APPURTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES OR FORCE MAINS AS SPECIFIED ON THE PLANS. DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE EPOXY LINED.

INSTALLATION OF ALL FITTINGS USED IS TO BE INCLUDED IN THE BID PRICE OF THE PIPE. NO ADDITIONAL PAYMENT ITEM WILL BE SHOWN FOR FITTINGS.

HORIZONTAL DIRECTIONAL DRILLING
INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASD CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

CONNECTION TO EXISTING SEWER LINE, MANHOLE OR FORCE MAIN
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING FORCE MAIN, SEWER LINE, PUMP STATION, OR MANHOLE AS SPECIFIED ON PLANS, INCLUDING TRAFFIC CONTROL.

MANHOLES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTH PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO VENT ASSEMBLY (WHERE REQUIRED), CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, FRAME AND COVER, AND TRAFFIC

SEWER OR FORCE MAIN VALVES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BOT NOT LIMITED TO VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.

MISCELLANEOUS VALVE ASSEMBLIES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECS.

SEWER SERVICE LINES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE INCLUDING TRAFFIC CONTROL.

POINT REPAIR
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INTERNAL OR EXTERNAL POINT REPAIRS AS SPECIFIED ON THE BID FORM.

RETIREMENT OR REMOVAL
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIRE IN PLACE OR REMOVE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.

CASING PIPE - BORE AND JACK INSTALLATION
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, ANY OTHER APPURTENANCE TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

MANHOLE ADJUSTMENT
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INCREASING OR DECREASING HEIGHT OF MANHOLE TO FINISHED ROAD GRADE, INCLUDING BUT NOT LIMITED TO ADDITION OR REMOVAL OF BARREL SECTIONS OR FRAME RINGS AND ADJUSTMENTS TO FRAME AND COVER.

RETIRE IN PLACE MANHOLE
INCLUDES ALL LABOR, EQUIPMENT, DISPOSAL OF WASTE MATERIAL, DRILLING HOLES IN BASE FOR PROPER DRAINAGE, REMOVAL OF NECESSARY BARRAL SECTIONS FOR PROPER GRADE AND STONE BACKFILL.

MANHOLE REHABILITATION
INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, FOR COMPLETE REHABILITATION OF MANHOLE BUT NOT LIMITED TO STRUCTURAL REPAIR, SEALING/COATING OF INTERIOR, AND TESTING.

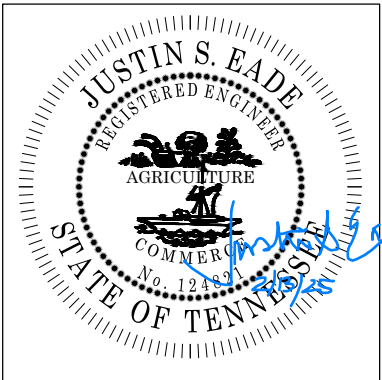
CASING PIPE - OPEN CUT INSTALLATION
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, STONE BACKFILL, TEMPORARY PAVEMENT, AND ANY OTHER APPURTENANCE TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U5-2
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

SEALED BY



HUSSEY GAY BELL

Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615-460-7515

THE CITY OF
CROSSVILLE, TENNESSEE

SEWER
RELOCATION

LEGEND AND GENERAL NOTES

SCALE: NTS

RIGHT-OF-WAY

- (1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
- (2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S 'POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- (8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

- (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.

UTILITY OWNERS

CABLE:
CHARTER COMMUNICATIONS
38 WEST BROAD STREET
COOKEVILLE, TN 38501
CONTACT: MR. LESTER HAFFNER
OFFICE PHONE: 931 675 0406
FAX: 931 644 5705
Email: Leslie.haffner@charter.com

ELECTRIC:
VOLUNTEER ENERGY COOPERATIVE
P.O. BOX 277
DECATUR, TN 37322
CONTACT: MR. MATTHEW TEAGUE
OFFICE PHONE: 423 334 7040
FAX 423 334 7005

GAS:
MIDDLE TENNESSEE NATURAL GAS
P.O. BOX 670
SMITHVILLE, TN 37166
CONTACT: MR. MATTHEW WHITAKER
OFFICE PHONE: 615 597 0513
FAX 615 597 6331

TELEPHONE:
FRONTIER/CITIZENS COMMUNICATIONS COMPANY
174 SPARTA HIGHWAY
CROSSVILLE, TN 38572
CONTACT: MR. JIM HEATHERLY
OFFICE PHONE: 865 947 8200

CABLE:
FIBER OPTICS: VOLFIRST
P.O. BOX 670
MCMINNVILLE, TN 37111
CONTACT: MR. RICHARD BOYD
OFFICE PHONE: 931 668 6692
FAX 931 668 7653
Email: Rboyd@blomed.net

WATER:
CITY OF CROSSVILLE
392 NORTH MAIN STREET
CROSSVILLE, TN 38555-4232
CONTACT: MR. TIM BEGLEY
OFFICE PHONE: 931 456 5680
FAX: 931 484 7713

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U5-3
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

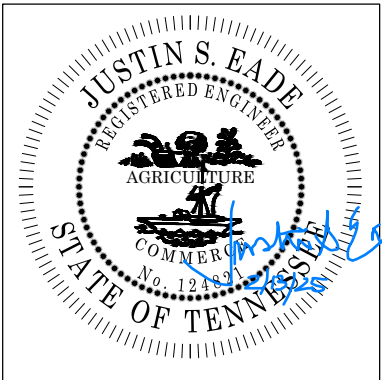
UTILITY

- (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.

R.O.W. ACQUISITION TABLE																	
TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION (1)	AIR RIGHTS
				BOOK	PAGE												
1	FRED STOUT	871	005.00	1493	692	1.010		1.010				1.010					
2	FRED STOUT	871	006.00	1493	692	1.040		1.040				1.040					
3	JAMES JOSEPH MITCHELL	086	057.00	285	788		115.910	115.910					115.910				
4	TONY PAGE AND KARI PAGE, HUSBAND AND WIFE	0871 A	015.00	1603	830	33.260		33.260				33.260				0.290	
5	VONDA M NEWBY AND HUSBAND CHARLES R NEWBY	087	053.00	1327	678		4.300	4.300					4.300				
6	SHARON A SHELLEY AND ROBIN L JONES	087	054.00	1236	1981		3.330	3.330		0.136	0.136		3.194				
7	CUMBERLAND COUNTY	087	59.00	1262	1312	67.030		67.030	0.349		0.349	66.681					
8	JOHN E. BARNWELL AND TINA L. BARNWELL, HUSBAND AND WIFE	087	055.00	1669	1821		2.070	2.070		0.151	0.151		1.919				
9	DOROTHY L. LILLY	087	056.00	1300	1976		2.020	2.020		2864 S.F.	2864 S.F.		1.954				
ACQUISITION TOTALS (ACRES)									0.702							0.290	

- (1) ESMT. NEEDED FOR HAUL ROAD.

SEALED BY



HUSSEY GAY BELL

Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615-440-7515

THE CITY OF
CROSSVILLE, TENNESSEE

SEWER
RELOCATION

R.O.W. AND UTILITY NOTES, UTILITY OWNERS, & R.O.W. AQISITION

SCALE: NTS

N&C IN EDGE OF PAVEMENT

CP-3
N 599204.2366
E 2250123.6680
EL. 1745.70
ALUM. DISK ATOP 1" REBAR
STAMPED "18-24-03"

CONC. ROW MARKER

N&C IN UTILITY POLE

48.3°ESE

27.2°WSW

88.4°N

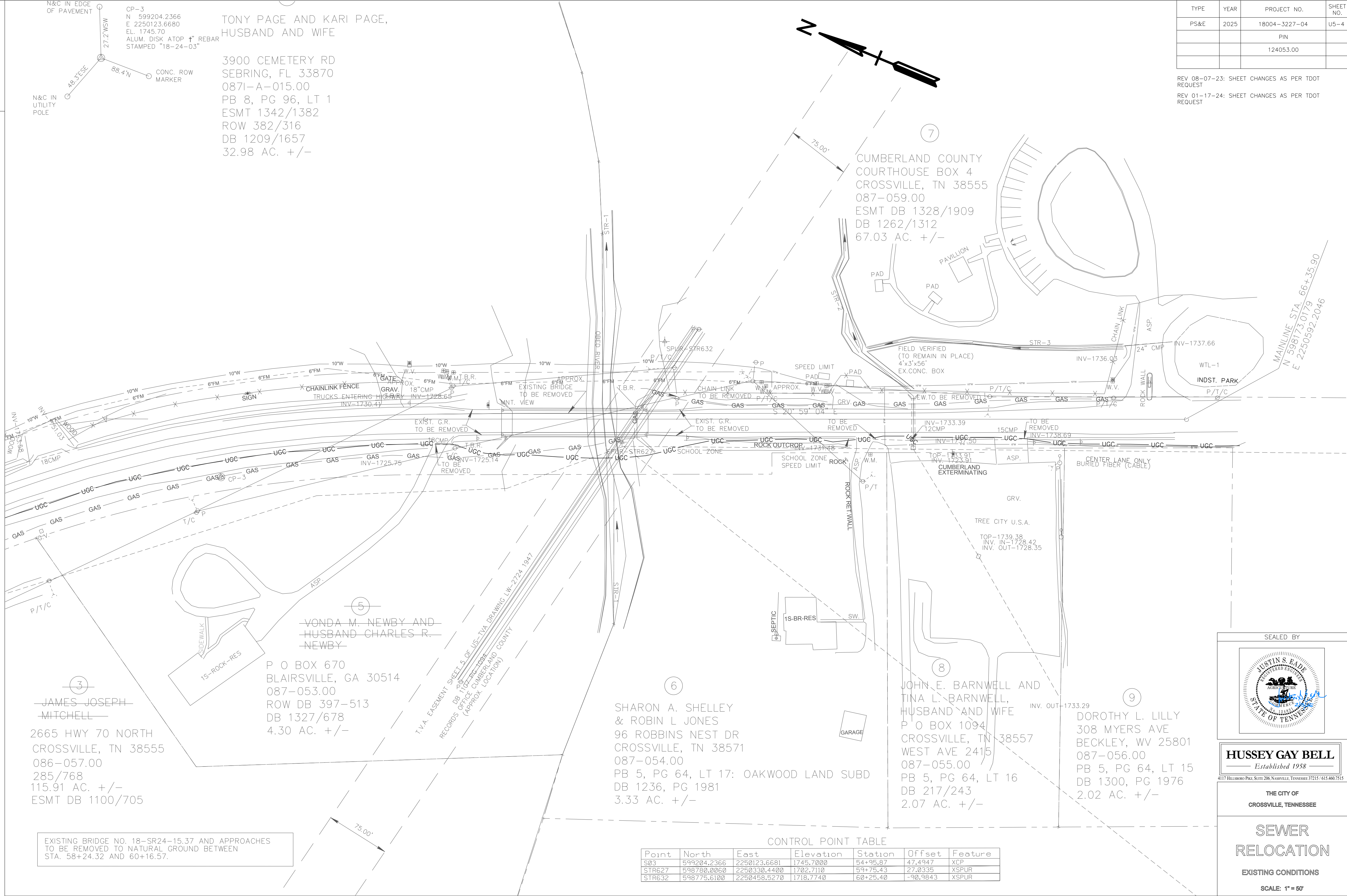
TONY PAGE AND KARI PAGE,
HUSBAND AND WIFE

3900 CEMETERY RD
SEBRING, FL 33870
087I-A-015.00
PB 8, PG 96, LT 1
ESMT 1342/1382
ROW 382/316
DB 1209/1657
32.98 AC. +/-

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U5-4
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST



EXISTING BRIDGE NO. 18-SR24-15.37 AND APPROACHES
TO BE REMOVED TO NATURAL GROUND BETWEEN
STA. 58+24.32 AND 60+16.57.

Point	North	East	Elevation	Station	Offset	Feature
S03	599204.2366	2250123.6681	1745.7000	54+95.87	47.4947	XCP
STR627	598780.0060	2250330.4400	1702.7110	59+75.43	27.0335	XSPUR
STR632	598775.6100	2250458.5270	1718.7740	60+25.40	-90.9843	XSPUR

SEALED BY

HUSSEY GAY BELL
Established 1958

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF
CROSSVILLE, TENNESSEE

SEWER
RELOCATION

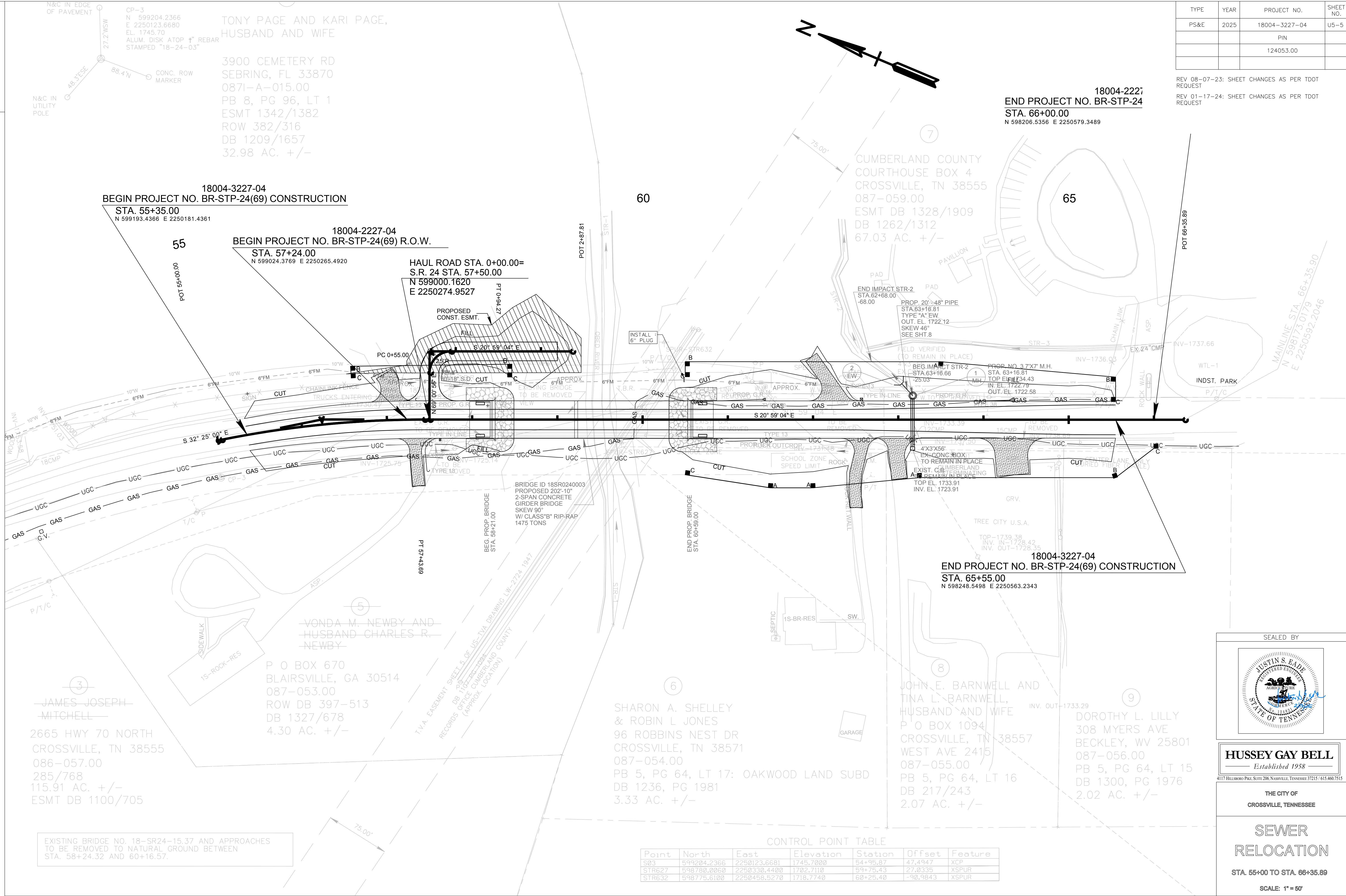
EXISTING CONDITIONS

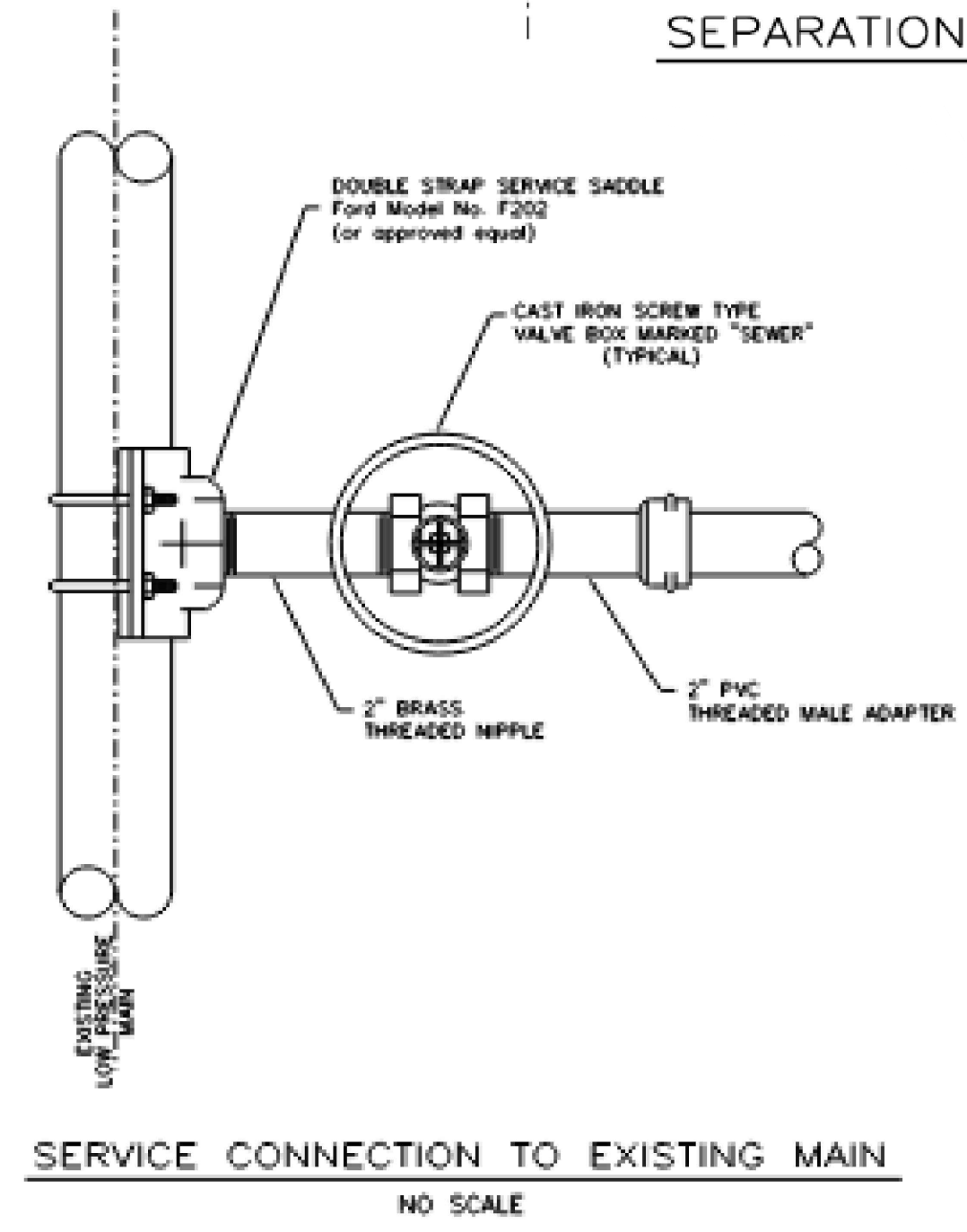
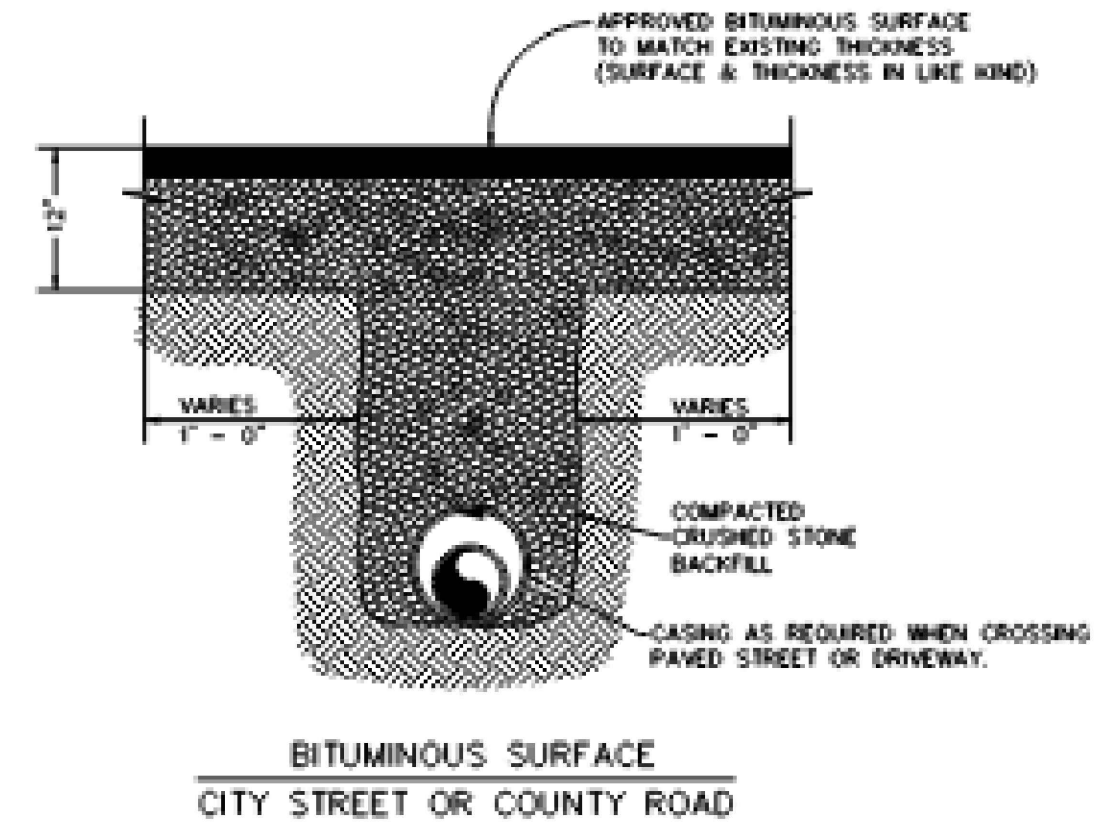
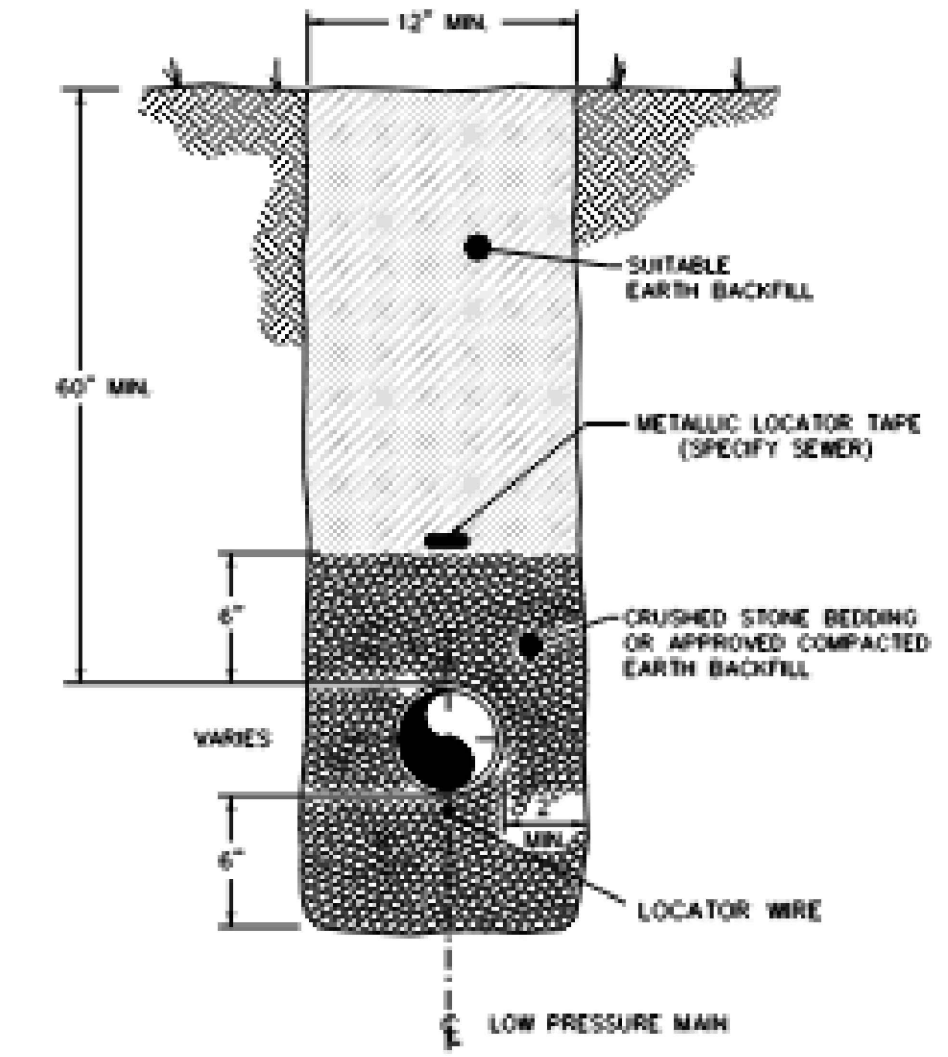
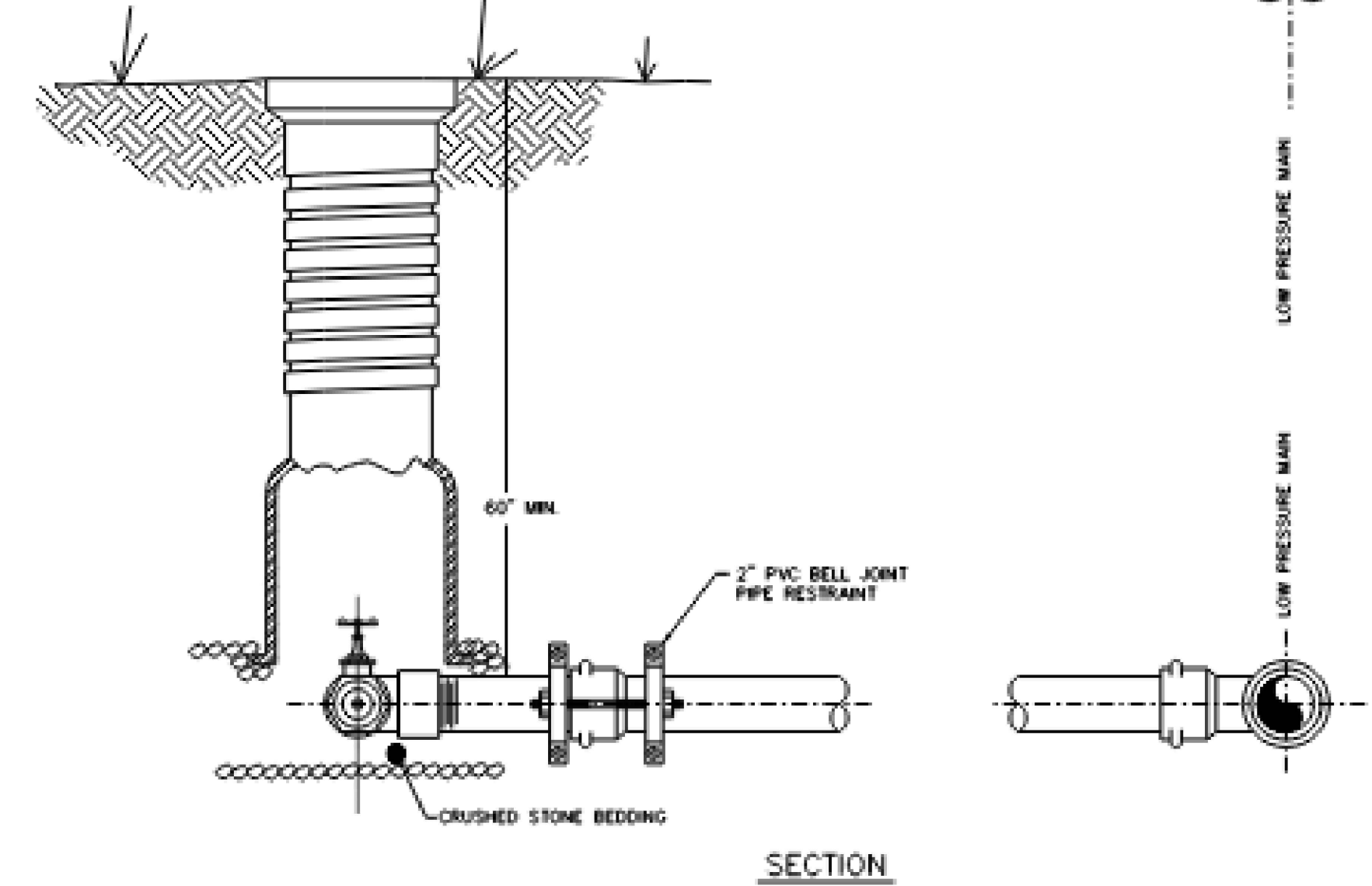
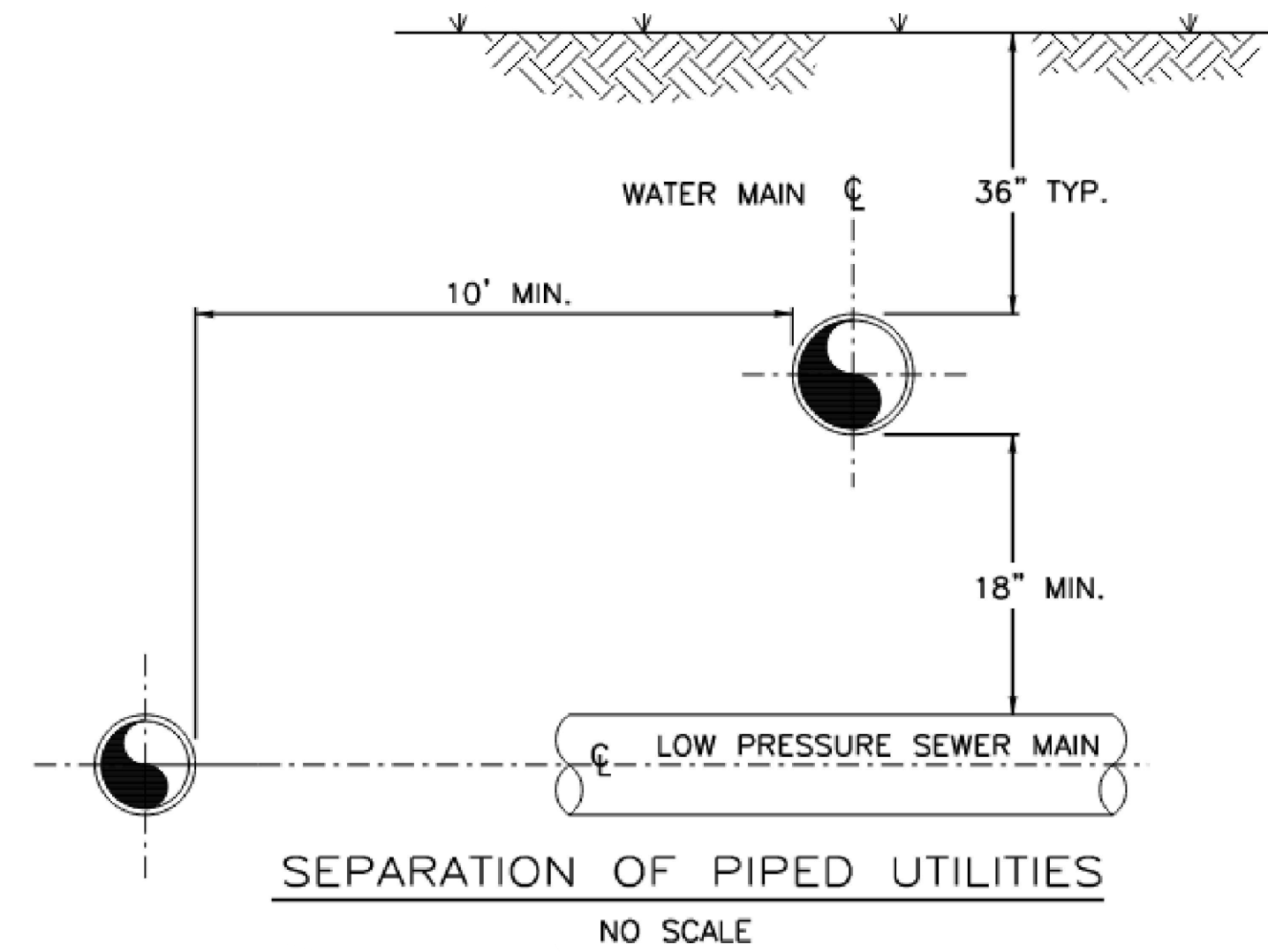
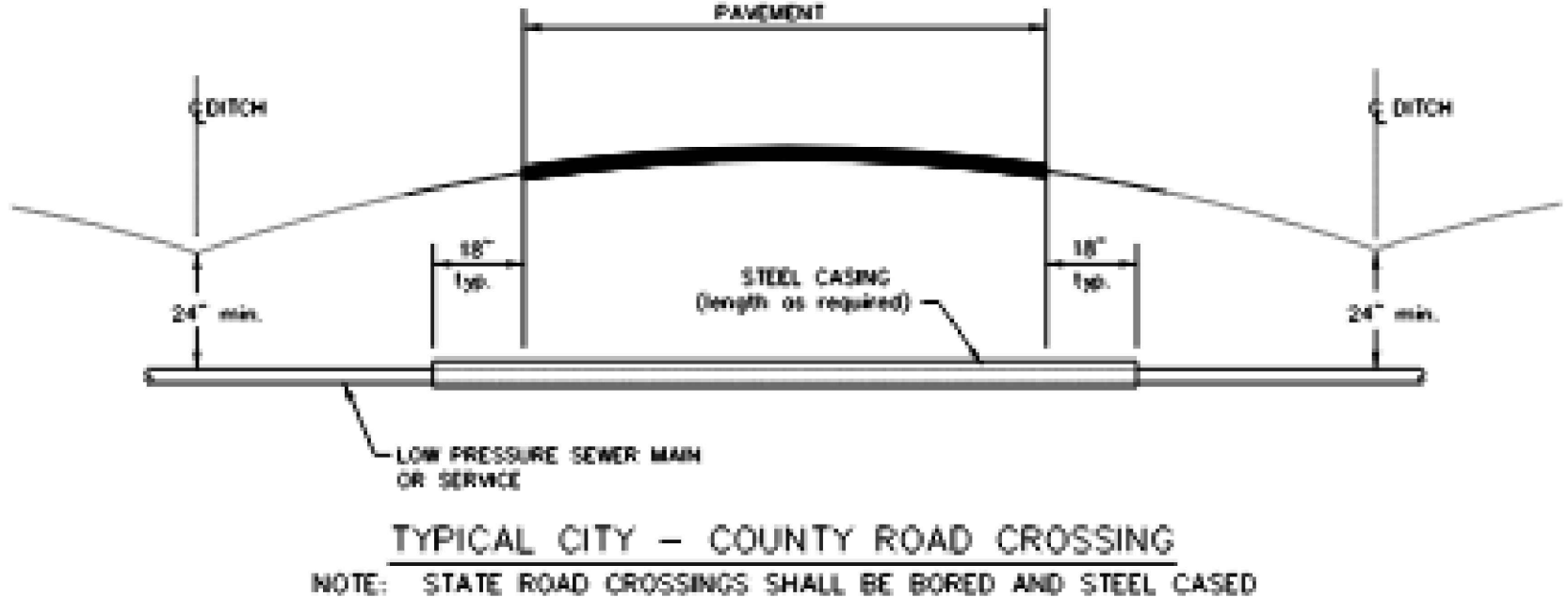
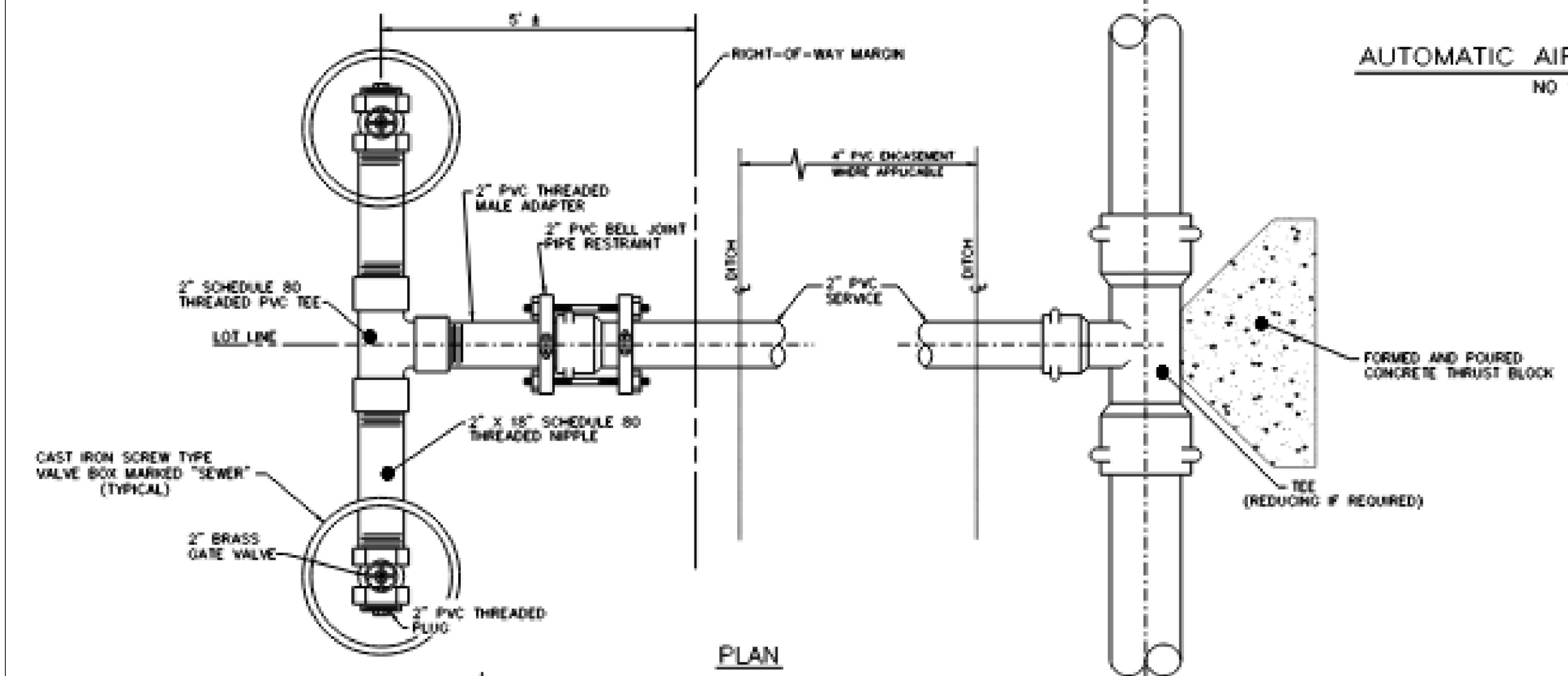
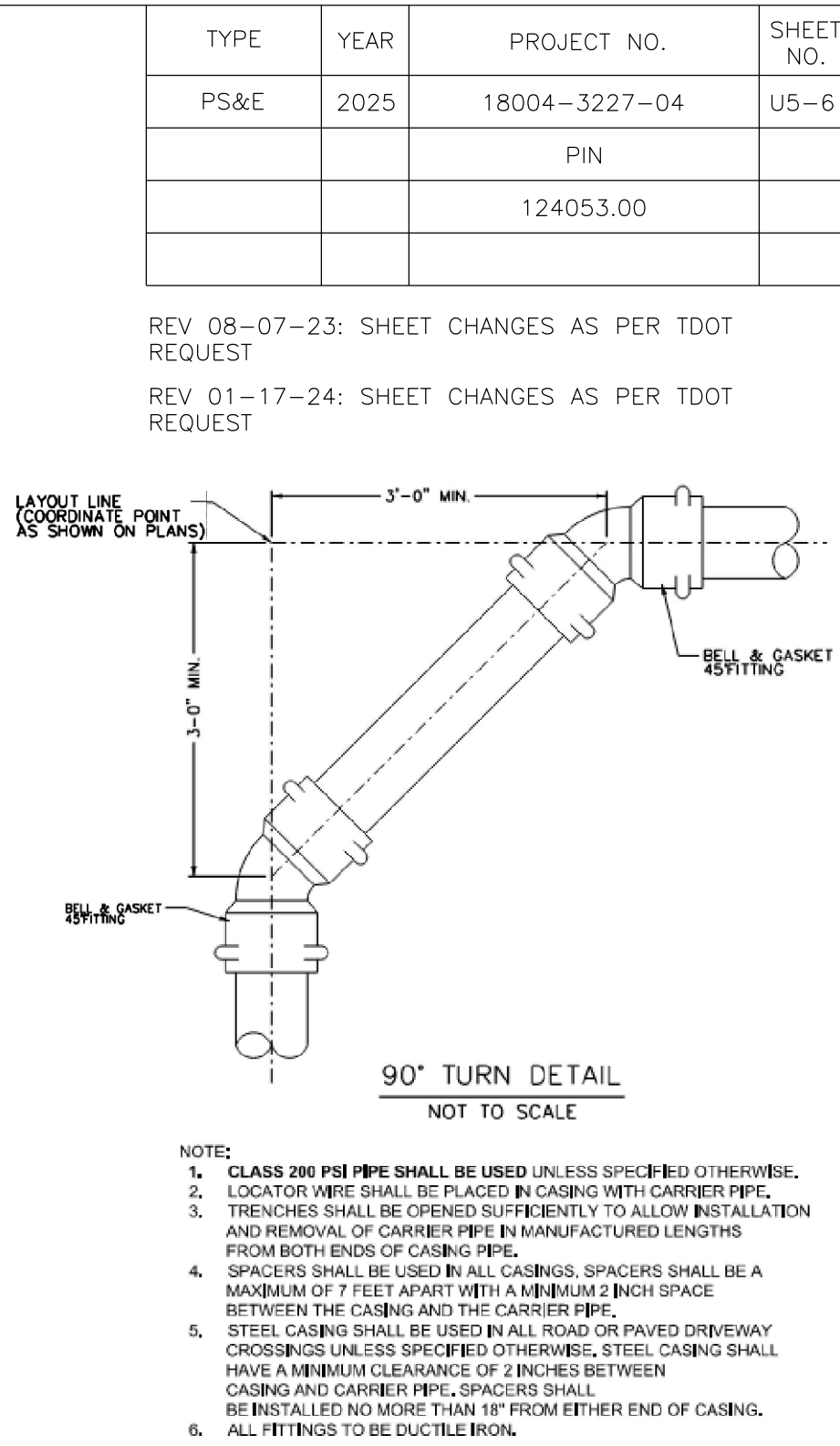
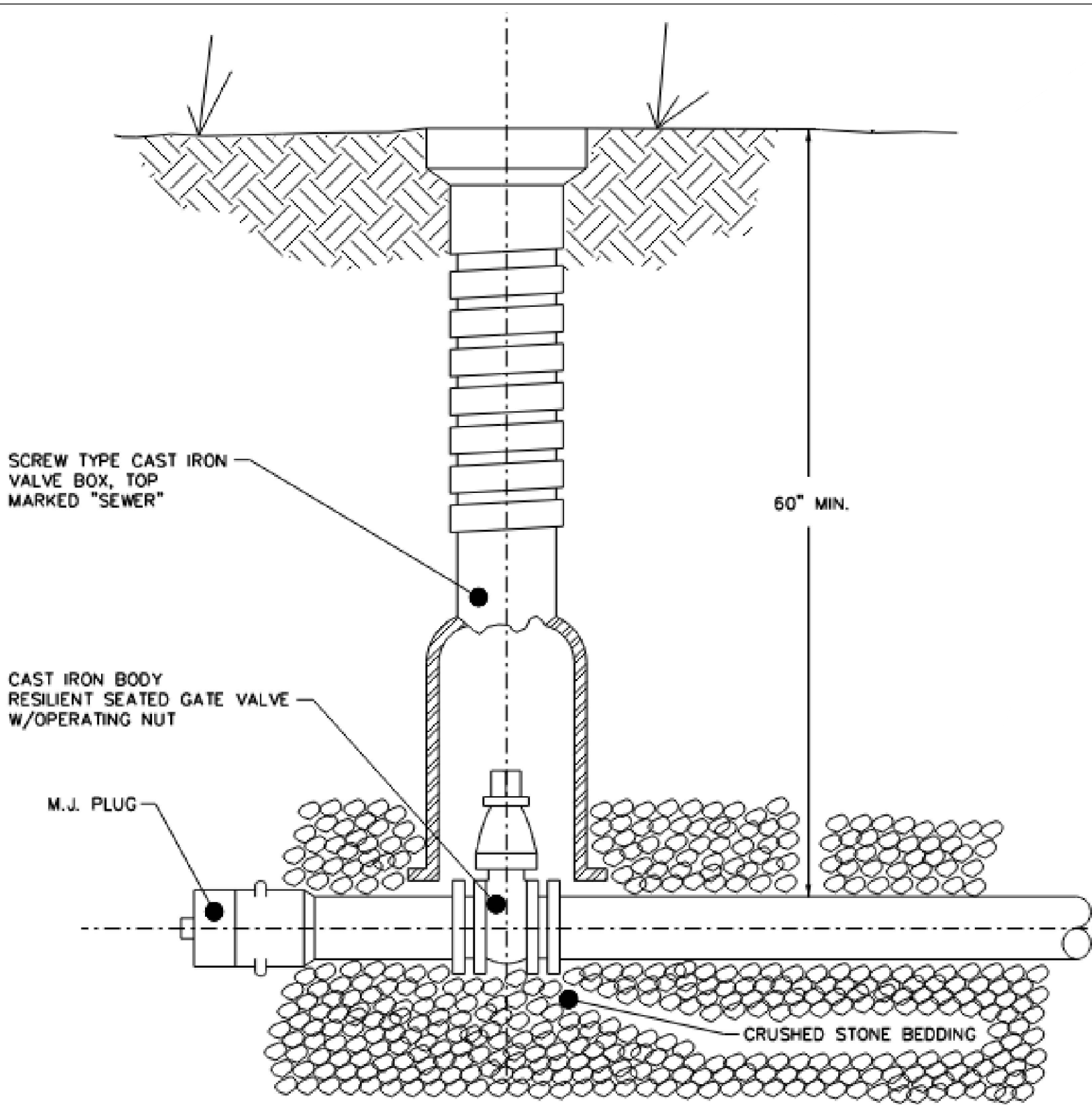
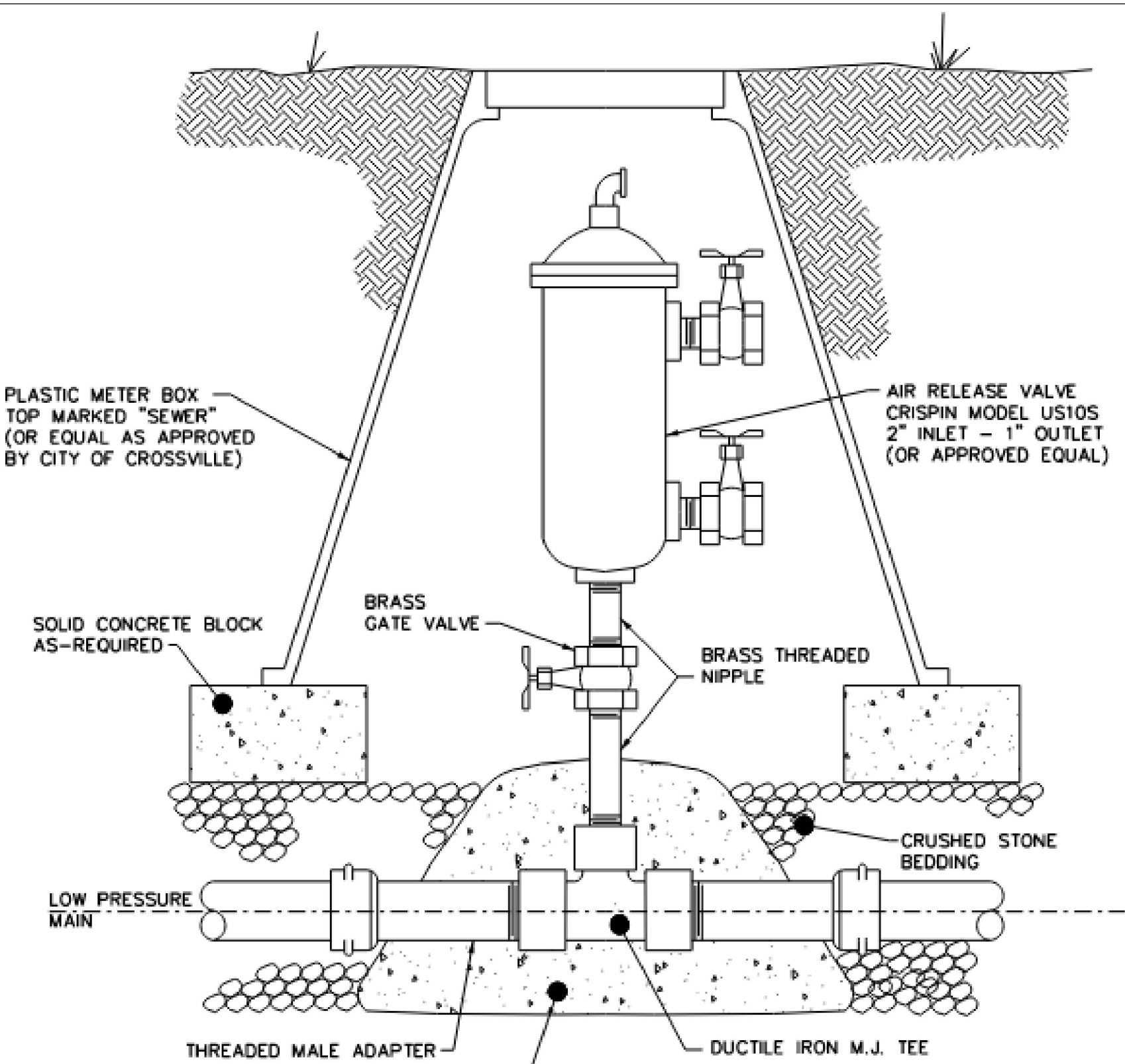
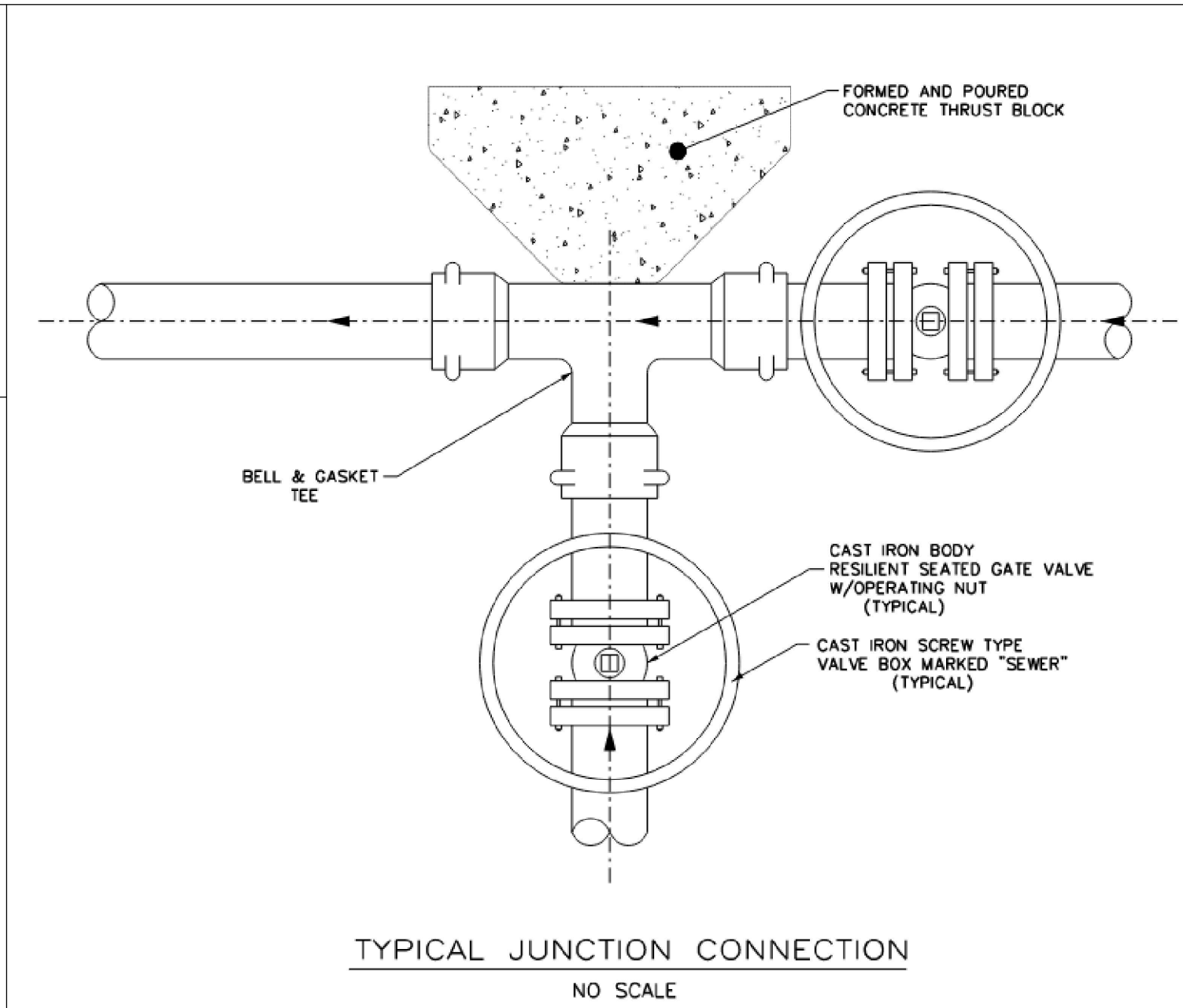
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U5-5
		PIN	
		124053.00	

REV 08-07-23: SHEET CHANGES AS PER TDOT
REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT
REQUEST





NOTE: 1. DOUBLE LOT CONNECTION SHOWN. FOR SINGLE SERVICE CONNECTION ELIMINATE TEE AND PROVIDE ONE GATE VALVE, PLUG AND VALVE BOX
2. ALL SERVICES EXTENDING UNDER ROADWAYS SHALL BE ENCASED.

NOTE: METALLIC LOCATOR TAPE (SEWER) TO BE INSTALLED IN TRENCH 6" - 8" ABOVE SEWER LINE.

STATE ROAD CROSSINGS ARE TO BE BORED & CASED

SEALED BY

HUSSEY GAY BELL
Established 1958
4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF
CROSSVILLE, TENNESSEE

SEWER
RELOCATION

SEWER DETAILS

SCALE: NTS

Utility Relocation Notes for Utility Relocations Within TDOT Contracts

1.

Rain water which collects in the utility trench shall be pumped into a temporary dewatering structure or filter bag.
2.

Silt fence to be installed on the downstream side of all stockpiled soil. Trenching across wet weather conveyances to be done during no flow conditions and stabilized by the end of the work day.
3.

Utility crossings for perennial streams shall be constructed in accordance with TDOT Standards, and **no work shall be conducted in flowing waters**. Tennessee Department of Environment and Conservation (TDEC) Regulations apply to the Utilities in this project in regard to Erosion Control **as well as all Water Quality Permits received**. **The Utility Contractor** shall comply with all requirements of the Water Quality Permits and the Storm Water Pollution Prevention Plan. **The Utility Contractor is only responsible for erosion control measures for utility construction that is included in the State contract work**.
4.

It is the responsibility of **the Utility Contractor** to protect from erosion exposed earth resulting from his operations and to provide for containment of sediment that may result from his 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 his work, exposed earth areas shall be stabilized as soon as possible to prevent erosion. At no time shall exposed earth resulting from his operations have unprotected access to flowing off-site and becoming waters of the State.
5.

For the installation of buried utilities (pipes and cables), trenches shall be backfilled daily as construction proceeds. Backfilled trenches shall be seeded and mulched or sodded daily if possible but **no later than 7 days after backfilled**. Any temporary spoil pile of excavated earth shall be located within the installed TDOT Right-Of-Way erosion control measures or receive separate erosion control measures from the approved TDOT standard drawings. If trenches are not backfilled overnight, appropriate erosion control measures will be installed **by the Utility Contractor** until such time the trench is backfilled.
6.

Trenches formed for the installation of buried utilities may cause storm water runoff to concentrate at the trenchline. If this is anticipated additional erosion control measures (such as check dams, hay bales, EC blankets) shall be installed from the approved TDOT standard drawings.
7.

For the installation of underground utilities outside of the **highway Right-Of-Way**, additional temporary erosion prevention and sediment control measures shall be installed prior to clearing (trenching and associated blasting) in those areas necessary to prevent sediment from leaving the construction area. These erosion prevention and sediment control measures shall remain until the backfilled trench is stabilized with final vegetative cover.
8.

The contractor shall restore all affected wet weather conveyances to the existing topographic conditions (as required by the State Engineer).
9.

The Utility Contractor will provide appropriate erosion control measure to replace in-place erosion control measures removed to facilitate the installation of utilities. Replacement erosions control measures will be coordinated with the State Engineer before commencing work.

Middle Tennessee Natural Gas Main Contact:
Matt Stennett
Vice President - Engineering
931-754-3515
mstennett@mtng.com

- _____

EXISTING GAS PIPE TO REMAIN IN PLACE
- _____

EXISTING GAS PIPE TO BE ABANDONED IN PLACE
- _____

PROPOSED NEW GAS PIPE
- _____

TDOT PROPOSED RCP & BOX CULVERTS

ESTIMATED UTILITY QUANTITIES

ESTIMATED UTILITY QUANTITIES

TDOT Item No.	Item Description	Qty	%Public	%Private	Footnote
791-01.04	4IN STEEL GAS MAIN	465	100	0	1
791-04.22	HDD 4IN STEEL PIPE - UNCONSOLIDATED	700	100	0	2
791-06.31	CONNECT TO 2IN EX. STL MAIN W/STOPPLE	2	100	0	4
791-06.32	CONNECT TO 4IN EX STL MAIN W/ STOPPLE	2	100	0	4
791-09.04	REGULATOR STATION	1	100	0	4

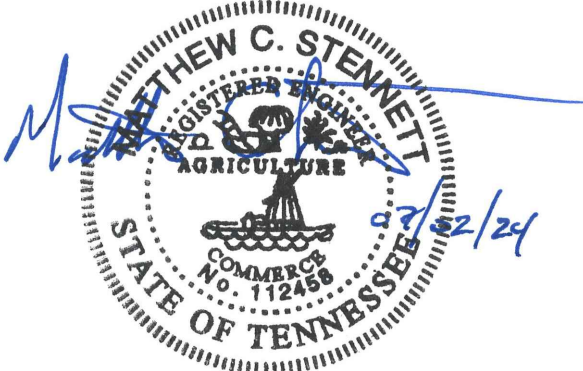
FOOTNOTE 1: INCLUDES ALL MATERIALS INCLUDING SAND/STONE BEDDING, FLOWABLE FILL, TEMPORARY PAVEMENT IN OR OUT OF ROW, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, EXCAVATION INCLUDING DIRT/ROCK, BACKFILLING, CREEK CROSSINGS PER SWPPP, COUPLINGS, FITTINGS, PIPE FUSION, APPURTENANCES, MAINTAINING THE TRENCH, PURGE POINT INSTALLATION, TESTING BY UTILITY SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO AIR, NITROGEN, HYDROSTATIC OR X-RAY, DEW POINT OR DRYING, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED IN THE PLANS.

FOOTNOTE 2: INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR CARRIER PIPE

FOOTNOTE 4: INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO EXISTING GAS LINE INCLUDING TRAFFIC CONTROL.

UTILITIES INDEX

SHEET NAME	SHEET NUMBER
ESTIMATED QUANTITIES & ENVIRONMENTAL NOTES	3
BEGINNING OF PROJECT TO END OF PROJECT	4



GAS LINE
RELOCATION PLANS

ITEM LIST AND
ENVIRONMENTAL NOTES

UTILITIES INDEX

ESTIMATED QUANTITIES
REMOVAL QUANTITIES
TDOT PLANS SHEET 4

SHEET
NO.
U8-1
U8-2
U8-3

ESTIMATED UTILITY QUANTITIES

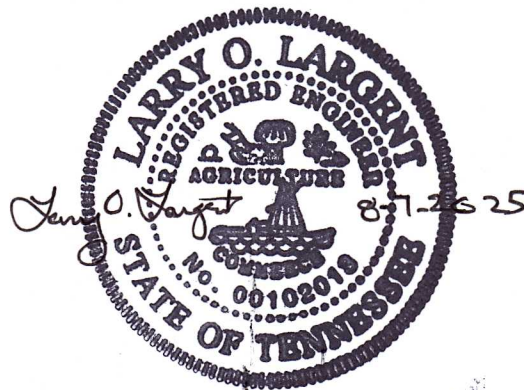
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	% UTILITY BETTERMENT	% PROJECT PUBLIC	% PROJECT PRIVATE
790-03.01	POLE 40FT CLASS 2 WOOD	EACH	3	0.00%	67.00%	33.00%
790-03.03	POLE 40FT CLASS 4 WOOD	EACH	3	0.00%	67.00%	33.00%
790-06.03	POLE 55FT CLASS 3 WOOD	EACH	1	0.00%	67.00%	33.00%
790-22.13	1Ø DEAD END 25KV	EACH	1	0.00%	67.00%	33.00%
790-22.16	1Ø DDE TANGENT 25KV	EACH	1	0.00%	67.00%	33.00%
790-22.18	1Ø SGL DEAD END XARM 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.02	3Ø CROSSARM DBL LRG COND 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.17	3Ø VERTICAL MED ANGLE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.25	3Ø CROSSARM DDE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.26	3Ø CROSSARM DEAD END 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.27	3Ø CROSSARM DBL DDE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.28	3Ø DBL 10FT XARM DDE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.29	3Ø DDE UNBALANCED LOAD 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.38	3Ø CROSSARM 10FT LRG COND 25KV	EACH	1	0.00%	67.00%	33.00%
790-30.13	SECONDARY CONDUCTOR 2 AL TRIPLEX	L.F.	109	0.00%	67.00%	33.00%
790-31.02	SERVICE ASSEMBLY-POLE TYPE	EACH	6	0.00%	67.00%	33.00%
790-31.11	SERVICE CONDUCTOR 2 AL TRIPLEX	L.F.	29	0.00%	67.00%	33.00%
790-32.01	DOWN GUY - THROUGH BOLT TYPE	EACH	1	0.00%	67.00%	33.00%
790-32.02	DOWN GUY - THROUGH BOLT TYPE HEAVY DUTY	EACH	1	0.00%	67.00%	33.00%
790-32.06	DOWN GUY - INSULATED	EACH	13	0.00%	67.00%	33.00%
790-32.23	GUY GUARD	EACH	13	0.00%	67.00%	33.00%
790-33.18	ROCK ANCHOR GUY BOLT TYPE	EACH	13	0.00%	67.00%	33.00%
790-40.03	OH COND 1/0 6/1 ACSR RAVEN	L.F.	3,432	0.00%	67.00%	33.00%
790-40.05	OH COND 3/0 6/1 ACSR PIGEON	L.F.	638	0.00%	67.00%	33.00%
790-40.49	OH COND 795 37 AAC ARBUTUS	L.F.	1,914	0.00%	67.00%	33.00%
790-46.02	1Ø TRANSFORMER CONV W/POLE MTD FUSE & LA	EACH	1	0.00%	67.00%	33.00%
790-46.03	1Ø TRANSFORMER CONV W/XARM MTD FUSE & LA	EACH	2	0.00%	67.00%	33.00%
790-52.03	10KVA 1Ø OH XFORMER 7.2KV 120/240	EACH	2	0.00%	67.00%	33.00%
790-52.12	50KVA 1Ø OH XFORMER 7.2KV DUAL VOLTAGE	EACH	1	0.00%	67.00%	33.00%
790-59.06	GOAB SWITCH 25KV	EACH	1	0.00%	67.00%	33.00%
790-69.09	GND-ASSY GND ROD WITH ALUMINUM	EACH	5	0.00%	67.00%	33.00%
790-70.22	STREET LIGHT 70W LED	EACH	1	0.00%	67.00%	33.00%
793-03.03	10M STRAND	L.F.	277	0.00%	67.00%	33.00%
793-04.01	RELASH/DELASH CABLE	L.F.	545	0.00%	67.00%	33.00%
793-04.08	TRANSFER AERIAL CABLE	EACH	1	0.00%	67.00%	33.00%
790-98.01	REMOVE WIRE	LF	6,818	0.00%	67.00%	33.00%
790-98.02	REMOVE POLES	EACH	9	0.00%	67.00%	33.00%
790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS	EACH	56	0.00%	67.00%	33.00%
793-04.08	REMOVE AERIAL CABLE AND WIRE	LF	268	0.00%	67.00%	33.00%
793-07.23	FIBER OPTIC MAINTENANCE LOOP	EACH	1	0.00%	67.00%	33.00%

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U8-1
		PIN	
		124053.00	

REVISED 8/7/2025 ADDED FIBER INFORMATION

VOLUNTEER ENERGY COOPERATIVE
18359 HIGHWAY 58 N.
DECATUR, TN 37322
MATTHEW TEAGUE

423-334-7040
MTEAGUE@VEC.ORG



VOLUNTEER
ENERGY COOPERATIVE

ELECTRIC
RELOCATION

ESTIMATED QUANTITIES

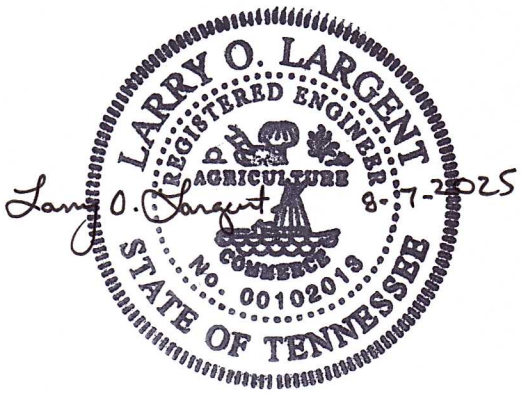
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U8-2
		PIN	
		124053.00	

ESTIMATED REMOVAL QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
790-98.01	REMOVE WIRE			790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS			790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS		
	1/0ACSR	LF	2,372		240V1.5KV A	EACH	1		E1-5G	EACH	1
	2AT-W	LF	100		240V25KV A	EACH	2		E3-10	EACH	5
	3/0ACSR	LF	638		240V50KV A	EACH	1		F5-3	EACH	5
	336AAC	LF	2,709		2AT	EACH	1		G105B	EACH	1
	4ACSR	LF	886		6DUP	EACH	1		G106A	EACH	2
	6DUP-W	LF	91		A3	EACH	1		K11	EACH	2
	K2AT-W	LF	22		A5-2	EACH	1		K11-2	EACH	1
790-98.02					BR-6	EACH	1		K11LESS	EACH	1
	REMOVE POLES				BR-8	EACH	1		K11N	EACH	2
	30-2	EACH	1		BSL-10H70	EACH	1		K2AT	EACH	1
	30-7	EACH	1		BSL-4A	EACH	1		M2-11A	EACH	4
	35-6	EACH	1		C1-2	EACH	2		M26-5	EACH	1
	40-2	EACH	2		C2-2	EACH	1		M5-6	EACH	3
	40-5	EACH	2		C7-2	EACH	1		VA5	EACH	1
	45-3	EACH	2		C7LESS	EACH	1		VC1-1	EACH	1
					C8-2	EACH	1		VC2	EACH	1
					E1-5	EACH	5		VM3-3M	EACH	1

VOLUNTEER ENERGY COOPERATIVE
18359 HIGHWAY 58 N.
DECATUR, TN 37322
MATTHEW TEAGUE

423-334-7040
MTEAGUE@VEC.ORG



VOLUNTEER
ENERGY COOPERATIVE

ELECTRIC
RELOCATION

REMOVAL QUANTITIES

