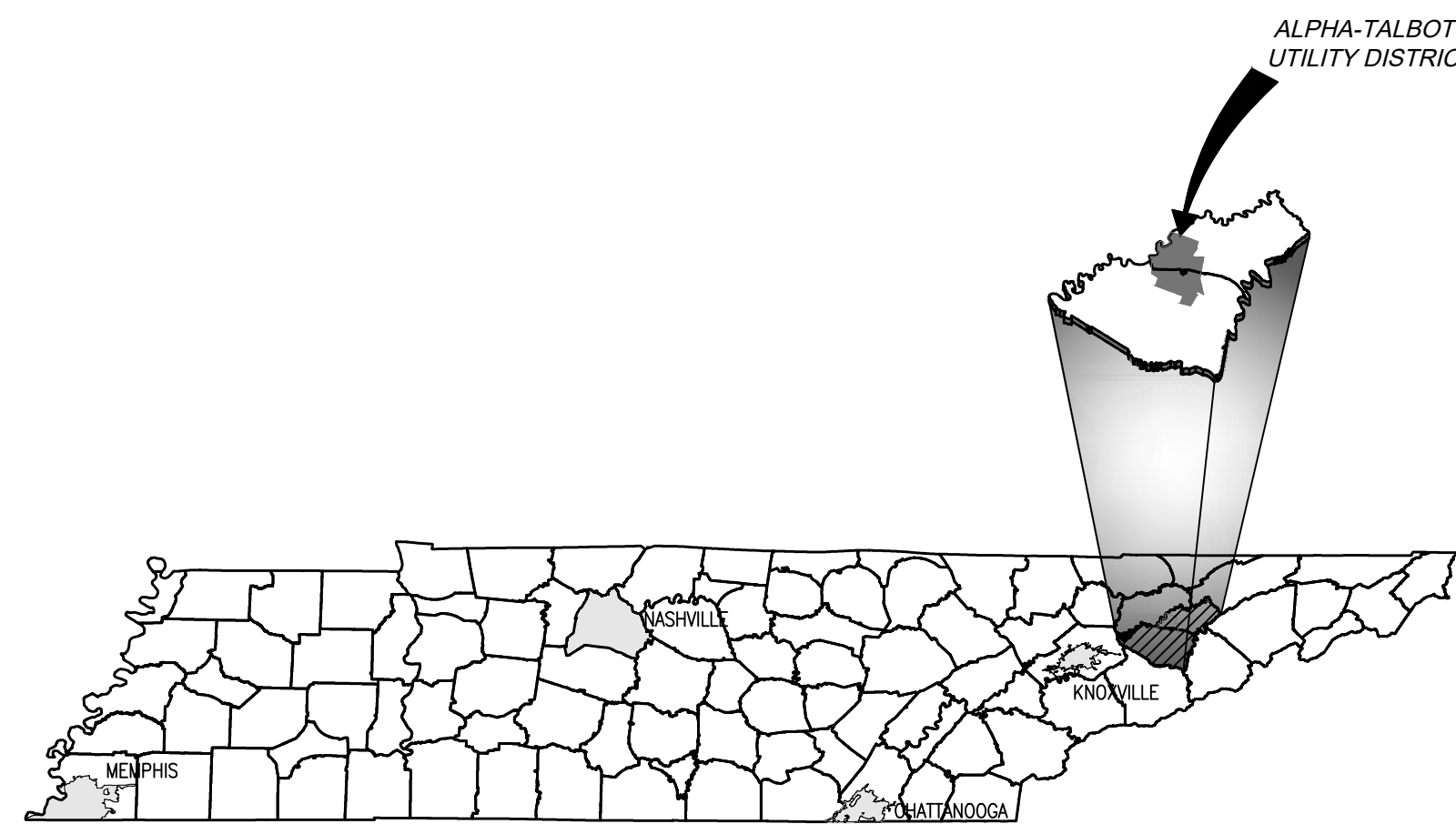


2020 SYSTEM UPGRADES GREENBRIAIR RD. & LAKE FOREST CIRCLE

ALPHA-TALBOTT UTILITY DISTRICT

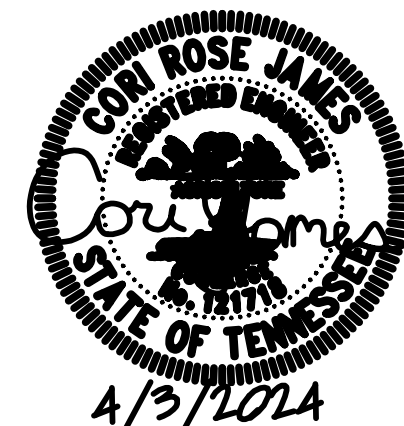


VICINITY MAP
NOT TO SCALE



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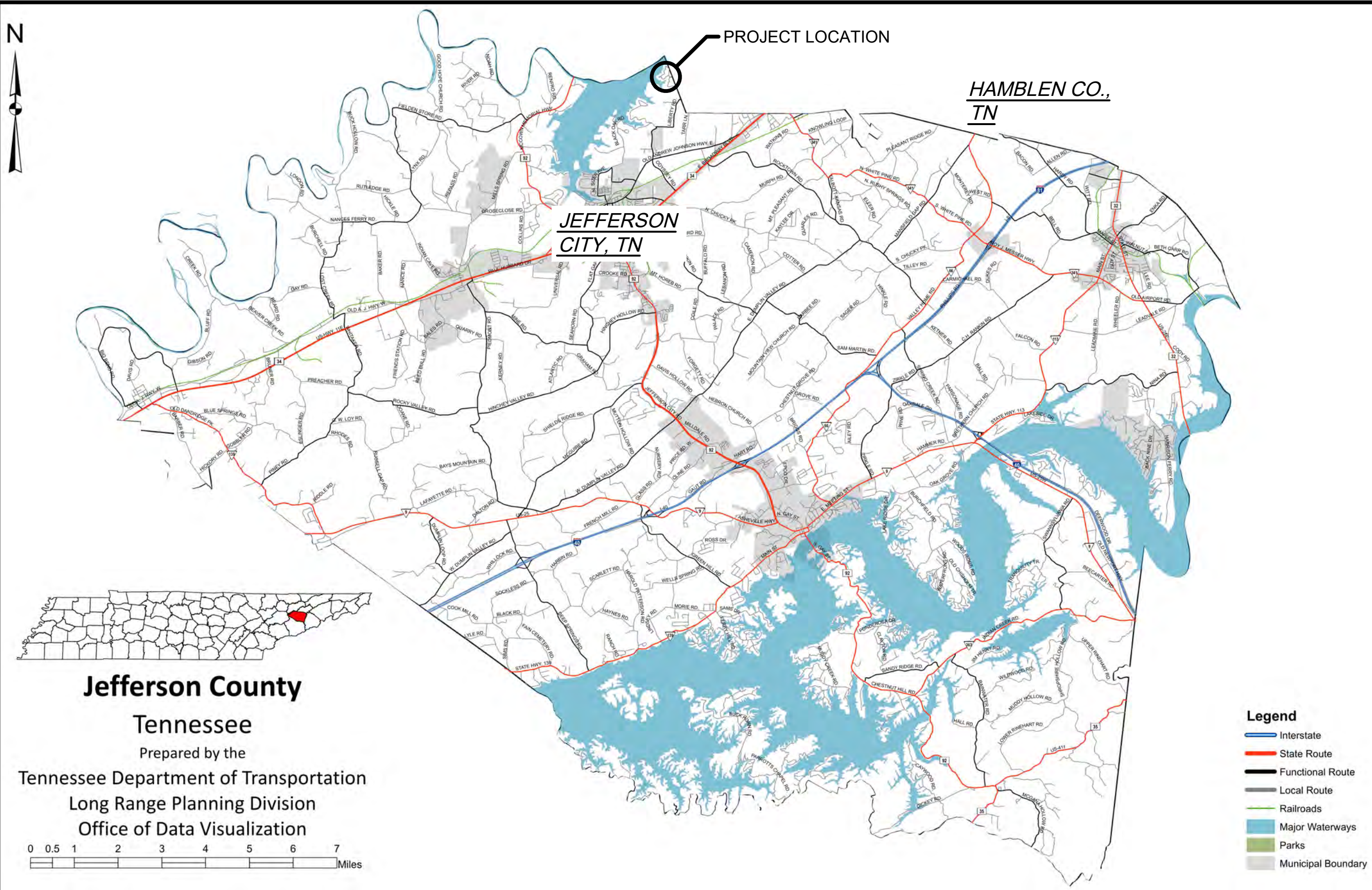
APRIL 2024

GRW PROJECT NO. 4879-03

PLOTTED BY: Calames

PRINTED: 4/2/2024 @ 3:46PM

FILE NAME: G:\4879-ATUD\03-JeffersonCo\Working Drawings\AutoCAD\4879-03-G-01.dwg



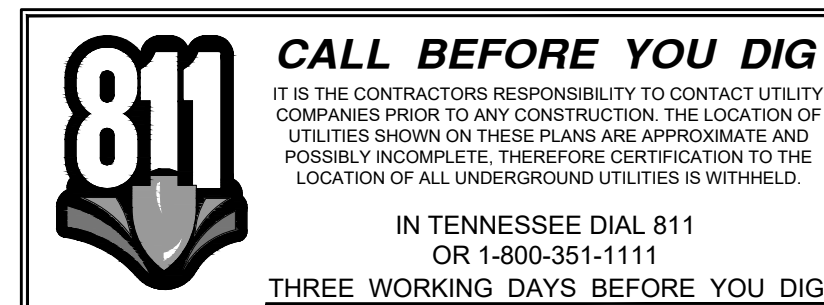
PROJECT VICINITY MAP

NOT TO SCALE

GENERAL NOTES

1. THE CONTRACTOR SHALL RESTORE ALL CULVERTS, FENCES, WALLS, SMALL ORNAMENTAL TREES, CULTIVATED SHRUBS, FLOWERS, SIGNS, LIGHTS AND POWER POLES, STREET MARKERS, MAIL BOXES, WATER AND GAS LINES, WATER AND GAS METERS AND BOXES INCLUDING SHUT-OFFS, AND LAWNS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITIONS. THE COST OF THIS WORK SHALL BE MERGED IN THE UNIT BID AND CONTRACT PRICES FOR THE PROPOSED WORK.
2. WHERE IN EASEMENTS THE CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION, EXCEPT AS NOTED.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. BEFORE CONSTRUCTION, CONTRACTOR SHALL CONTACT :

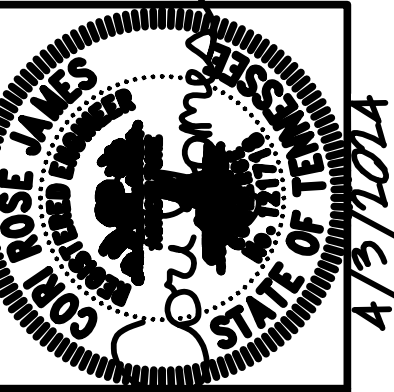
TENNESSEE811
DIAL 811 (OR 1-800-351-1111)
72 HOURS NOTICE
4. IF ANY EXISTING STORM SEWERS ARE SUBSTANTIALLY DAMAGED AS DETERMINED BY THE A/E AND OR OWNER, THE REPAIR SHALL BE MADE WITH R.C.P. PIPE FROM STRUCTURE-TO-STRUCTURE. PIPE SIZE SHALL BE EQUAL TO EXISTING.
5. SUFFICIENT PRECAUTIONS SHALL BE TAKEN DURING CONSTRUCTION TO MINIMIZE THE RUN-OFF OF POLLUTING SUBSTANCES SUCH AS SILT, CLAY, FUELS, OILS, BITUMENS, CALCIUM CHLORIDE, OR OTHER POLLUTING MATERIALS HARMFUL TO HUMANS, FISH OR OTHER LIFE, INTO THE SUPPLIES AND SURFACE WATERS OF THE STATE. CONTROL MEASURES MUST BE ADEQUATE TO ASSURE THAT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS ARE MET. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE LAWS AND REGULATIONS ARE MET AND IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION DOES NOT HARM THE WATERS OF TENNESSEE. THE PROTECTION OF THE SITE SHALL CONTINUE THROUGHOUT THE CONSTRUCTION PERIOD. SPECIAL PRECAUTIONS SHALL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT OPERATIONS WHICH PROMOTE EROSION.
6. THE TEMPORARY POLLUTION CONTROL PROVISIONS SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL MEASURES, TO ENSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE CONSTRUCTION AND POST-CONSTRUCTION PERIOD OF THE PROJECT. NATURAL COVER SHOULD BE MAINTAINED AS LONG AS POSSIBLE AND GRADED AREAS SHOULD BE STABILIZED AS SOON AS POSSIBLE.
7. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE APPROPRIATE FEDERAL, STATE, COUNTY AND/OR LOCAL AGENCIES TO CROSS ALL HIGHWAYS, STREETS, STREAMS, EASEMENTS, ETC...
8. STATE HIGHWAY RIGHT-OF-WAY INFORMATION PROVIDED BY THE STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION. QUESTIONS CONCERNING R-O-W LOCATION ON ANY STATE HIGHWAY SHOULD BE REFERRED TO THE APPROPRIATE REGIONAL OFFICE OF THE STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION:
9. PROPERTY OWNERS AND PARCEL INFORMATION PROVIDED BY THE COUNTY REGISTRAR OF DEEDS.
10. COUNTY ROAD RIGHT-OF-WAY INFORMATION PROVIDED BY THE COUNTY HIGHWAY DEPT. QUESTIONS CONCERNING R-O-W LOCATION ON ANY COUNTY ROAD SHOULD BE REFERRED TO THE COUNTY HIGHWAY DEPARTMENT.



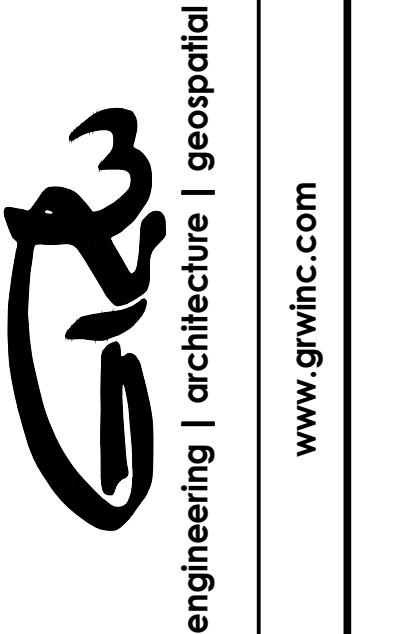
DWG.

INDEX OF SHEETS

- G-01 PROJECT VICINITY MAP AND INDEX OF SHEETS
- C-02 GREENBRIAR RD. - STA. 0+00 TO STA. 47+15 E.O.L.
PONDER RD. - STA. 0+00 TO STA. 8+80 E.O.L.
- C-03 LAKE FOREST CIR. STA. 0+00 TO STA. 39+60 E.O.L.
- SD-04 WATER LINE STANDARD DETAILS
- SD-05 WATER LINE STANDARD DETAILS
- EC-06 EROSION CONTROL STANDARD DETAILS
- EC-07 GREEDBRIAR RD. - STA. 0+00 TO STA. 47+15 E.O.L. EROSION & SEDIMENT CONTROL
- EC-08 LAKE FOREST CIR. STA. 0+00 TO STA. 39+60 E.O.L. EROSION & SEDIMENT CONTROL



GRW PROJECT NO. 4879-03



PROJECT LOCATION MAP, GENERAL NOTES AND INDEX OF SHEETS

2020 SYSTEM UPGRADE ALPHA-TALBOTT UTILITY DISTRICT

REVISIONS	DATE	BY	DESCRIPTION
NO			

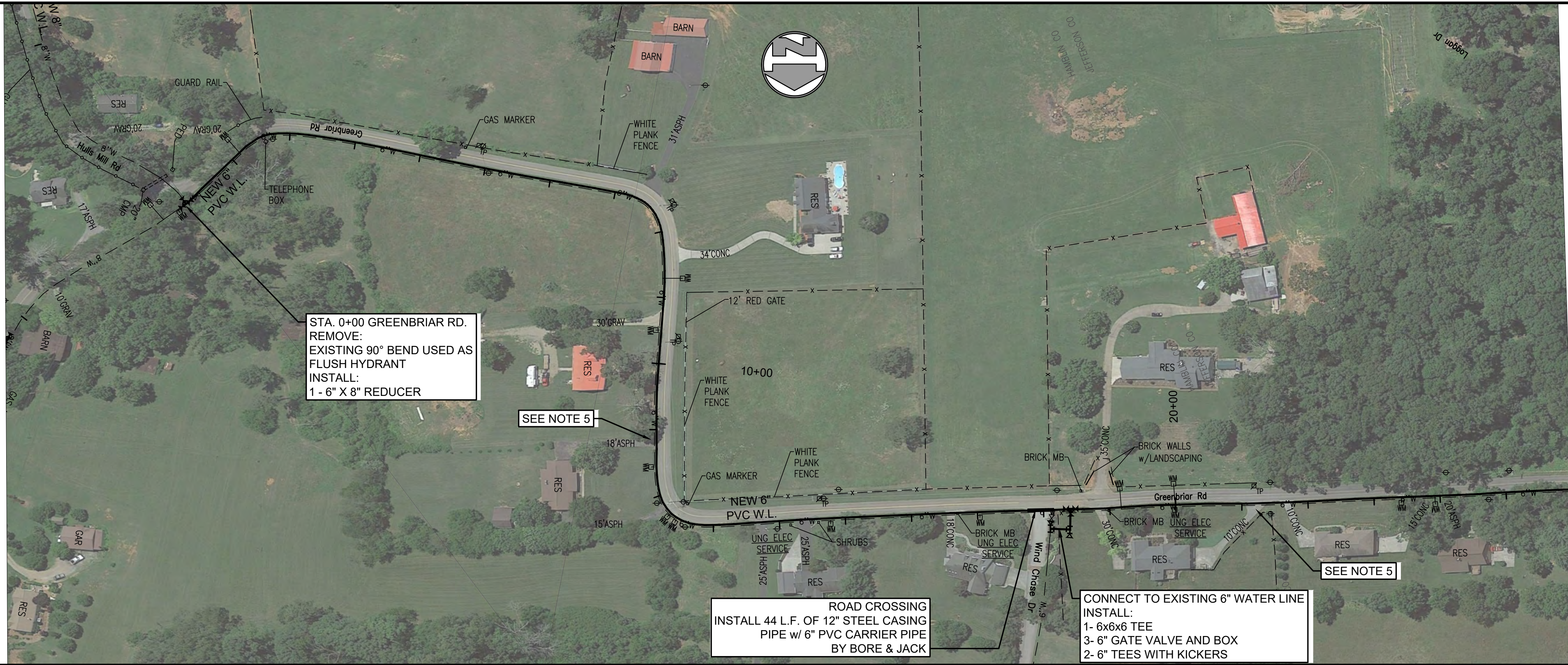
DATE: APRIL 2024
SCALE: 1"=100'
SHEET NO. G-01

DATE: APRIL 2024
SCALE: 1"=100'
SHEET NO. G-01

PLOTTED BY: Claines

PRINTED: 4/2/2024 @ 3:50PM

FILE NAME: G:\4879-ATUD\03-JeffersonCo\Working Drawings\AutoCAD\4879-03-C-02_C-03.dwg

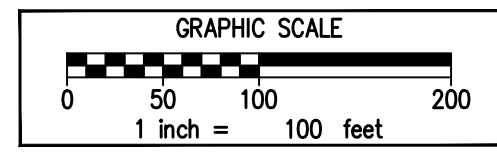


STA. 0+00 GREENBRIAR RD.
REMOVE:
EXISTING 90° BEND USED AS
FLUSH HYDRANT
INSTALL:
1- 6" X 8" REDUCER

SEE NOTE 5

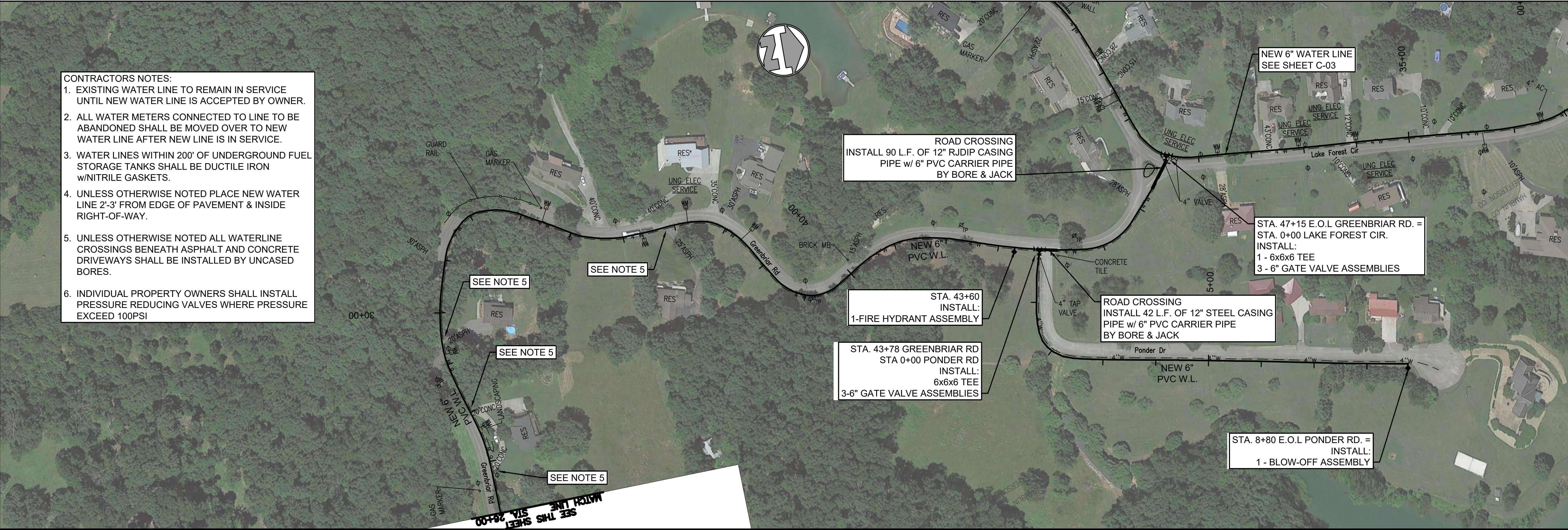
ROAD CROSSING
INSTALL 44 L.F. OF 12" STEEL CASING
PIPE w/ 6" PVC CARRIER PIPE
BY BORE & JACK

CONNECT TO EXISTING 6" WATER LINE
INSTALL:
1- 6x6x6 TEE
3- 6" GATE VALVE AND BOX
2- 6" TEES WITH KICKERS



SEE THIS SHEET
MATCH LINE STA. 28+00

- CONTRACTORS NOTES:**
- EXISTING WATER LINE TO REMAIN IN SERVICE UNTIL NEW WATER LINE IS ACCEPTED BY OWNER.
 - ALL WATER METERS CONNECTED TO LINE TO BE ABANDONED SHALL BE MOVED OVER TO NEW WATER LINE AFTER NEW LINE IS IN SERVICE.
 - WATER LINES WITHIN 200' OF UNDERGROUND FUEL STORAGE TANKS SHALL BE DUCTILE IRON w/NITRILE GASKETS.
 - UNLESS OTHERWISE NOTED PLACE NEW WATER LINE 2'-3" FROM EDGE OF PAVEMENT & INSIDE RIGHT-OF-WAY.
 - UNLESS OTHERWISE NOTED ALL WATERLINE CROSSINGS BENEATH ASPHALT AND CONCRETE DRIVEWAYS SHALL BE INSTALLED BY UNCASSED BORES.
 - INDIVIDUAL PROPERTY OWNERS SHALL INSTALL PRESSURE REDUCING VALVES WHERE PRESSURE EXCEED 100PSI



ROAD CROSSING
INSTALL 90 L.F. OF 12" RJDIP CASING
PIPE w/ 6" PVC CARRIER PIPE
BY BORE & JACK

STA. 43+60
INSTALL:
1-FIRE HYDRANT ASSEMBLY

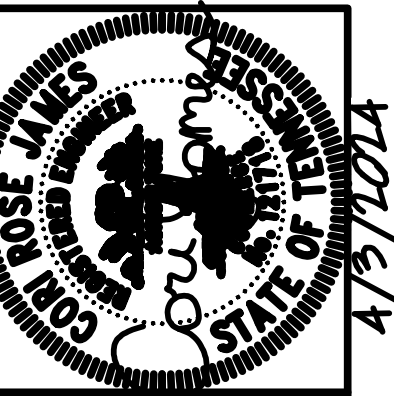
STA. 43+78 GREENBRIAR RD
STA 0+00 PONDER RD
INSTALL:
6x6x6 TEE
3-6" GATE VALVE ASSEMBLIES

ROAD CROSSING
INSTALL 42 L.F. OF 12" STEEL CASING
PIPE w/ 6" PVC CARRIER PIPE
BY BORE & JACK

STA. 47+15 E.O.L GREENBRIAR RD. =
STA. 0+00 LAKE FOREST CIR.
INSTALL:
1 - 6x6x6 TEE
3 - 6" GATE VALVE ASSEMBLIES

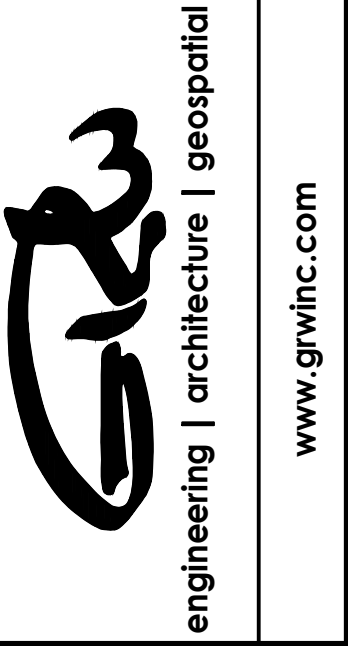
STA. 8+00 E.O.L PONDER RD. =
INSTALL:
1 - BLOW-OFF ASSEMBLY

SEE THIS SHEET
MATCH LINE STA. 28+00



GRW PROJECT NO. 4879-03

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GREENBRIAR RD. - STA. 0+00 TO STA. 47+15 E.O.L.
PONDER RD. - STA. 0+00 TO STA. 8+80 E.O.L.

2020 SYSTEM UPGRADE
ALPHA-TALBOTT UTILITY DISTRICT

NO.	REVISIONS	DATE	BY	DRAWN	REVIEWED	APPROVED
1			JWH	DM/CJ	JWH	JWH

SCALE CHECK: _____ THIS BAR SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

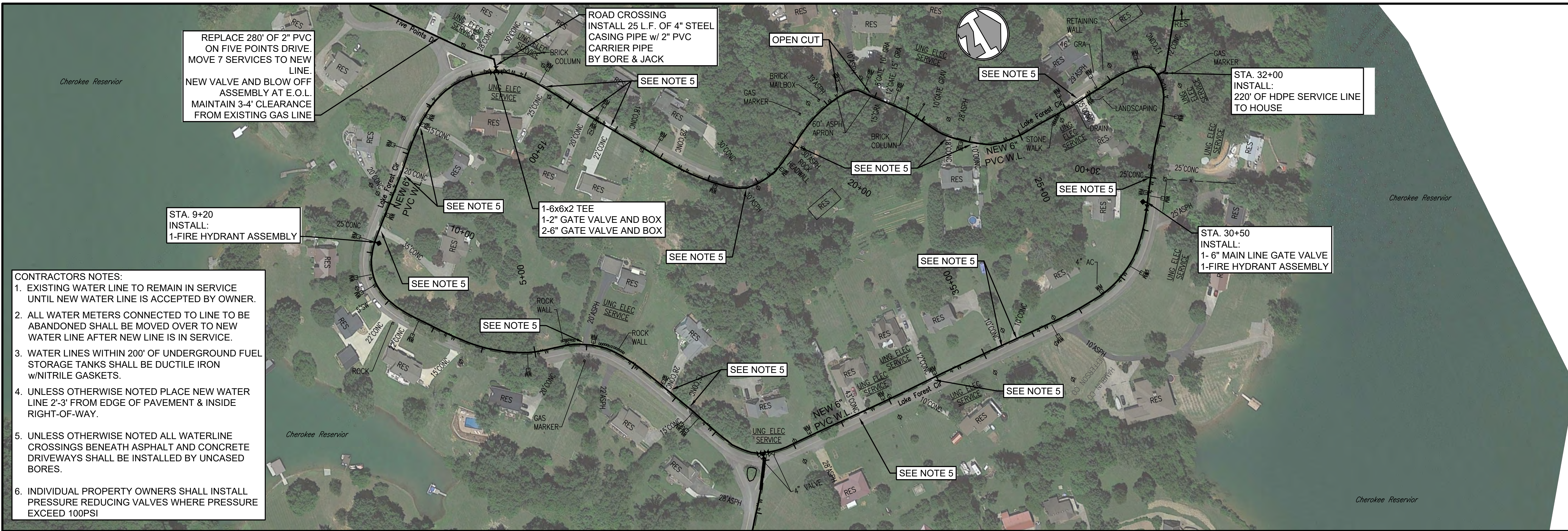
DATE: APRIL 2024
SCALE: 1"=100'
SHEET NO. C-02

4/3/2024

PLOTTED BY: Calames

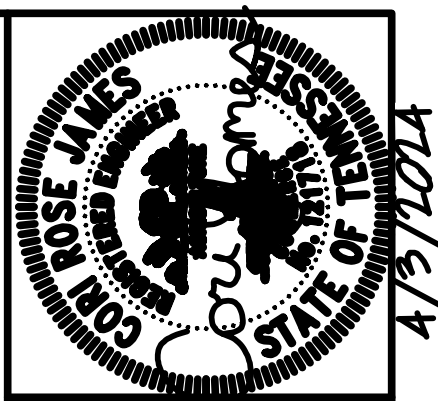
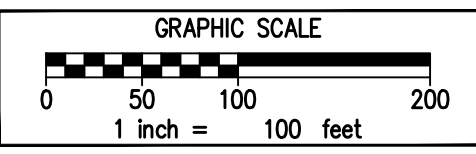
PRINTED: 4/2/2024 @ 3:50PM

FILE NAME: G:\4879-ATUD\03-JeffersonCo\Working Drawings\AutoCAD\4879-03-C-02_C-03.dwg



CONTRACTORS NOTES:

- EXISTING WATER LINE TO REMAIN IN SERVICE UNTIL NEW WATER LINE IS ACCEPTED BY OWNER.
- ALL WATER METERS CONNECTED TO LINE TO BE ABANDONED SHALL BE MOVED OVER TO NEW WATER LINE AFTER NEW LINE IS IN SERVICE.
- WATER LINES WITHIN 200' OF UNDERGROUND FUEL STORAGE TANKS SHALL BE DUCTILE IRON w/NITRILE GASKETS.
- UNLESS OTHERWISE NOTED PLACE NEW WATER LINE 2'-3' FROM EDGE OF PAVEMENT & INSIDE RIGHT-OF-WAY.
- UNLESS OTHERWISE NOTED ALL WATERLINE CROSSINGS BENEATH ASPHALT AND CONCRETE DRIVEWAYS SHALL BE INSTALLED BY UNCASD BORES.
- INDIVIDUAL PROPERTY OWNERS SHALL INSTALL PRESSURE REDUCING VALVES WHERE PRESSURE EXCEED 100PSI



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**LAKE FOREST CIR.
STA. 0+00 TO STA. 39+60 E.O.L.**

**2020 SYSTEM UPGRADE
ALPHA-TALBOTT UTILITY DISTRICT**

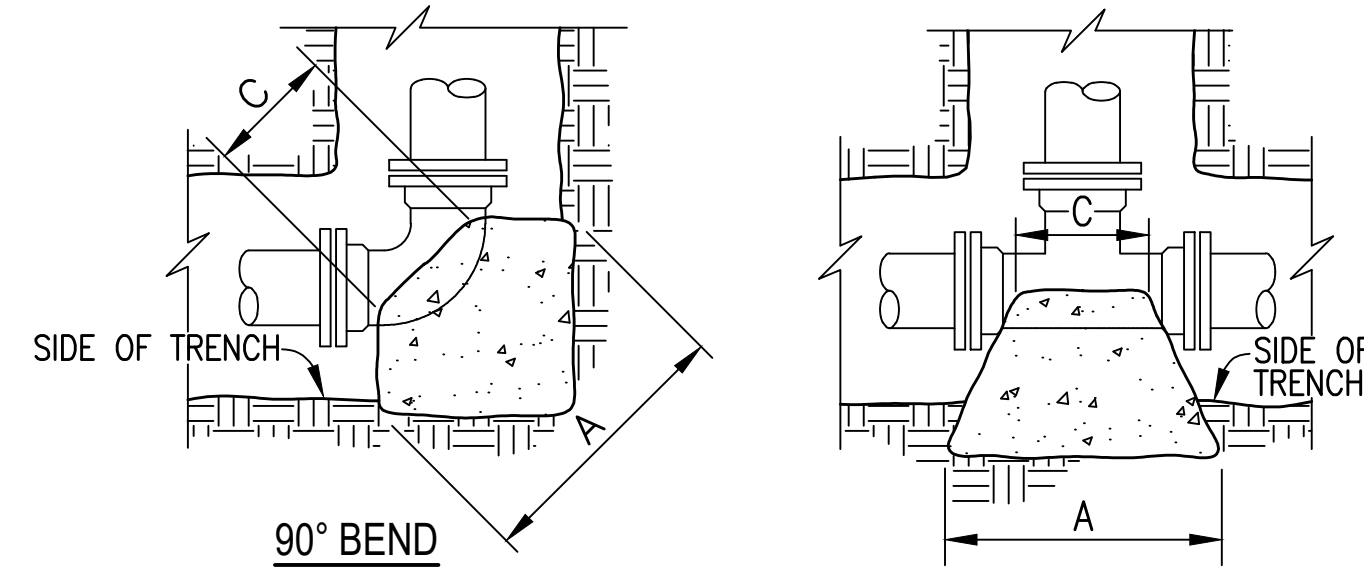
REVISIONS	NO.	DESCRIPTION	DATE	BY

DATE: **APRIL 2024**
SCALE: **1"=100'**
SHEET NO.: **C-03**

PLOTTED BY: Cjames

PRINTED: 4/2/2024 @ 3:51 PM

FILE NAME: G:\4879-ATUD\03-Jefferson\Working Drawings\AutoCAD\4879-03-C-04-DETAILS.dwg



90° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	84	60	51	42	32	24	18
B	72	60	51	42	32	24	18
C	30	18	16	12	12	9	9
D	34	30	24	17	13	9	9

45° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	58	43	38	32	24	18	12
B	58	43	38	32	24	18	12
C	24	16	14	12	12	8	8
D	24	18	15	12	9	6	6

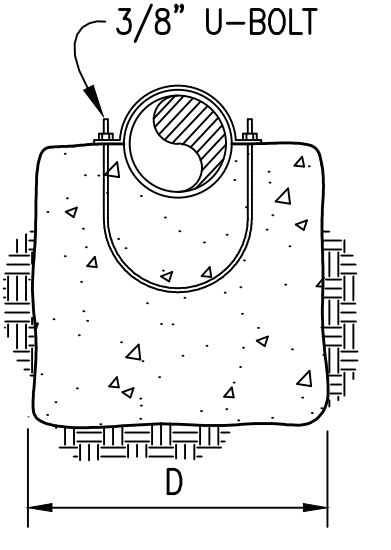
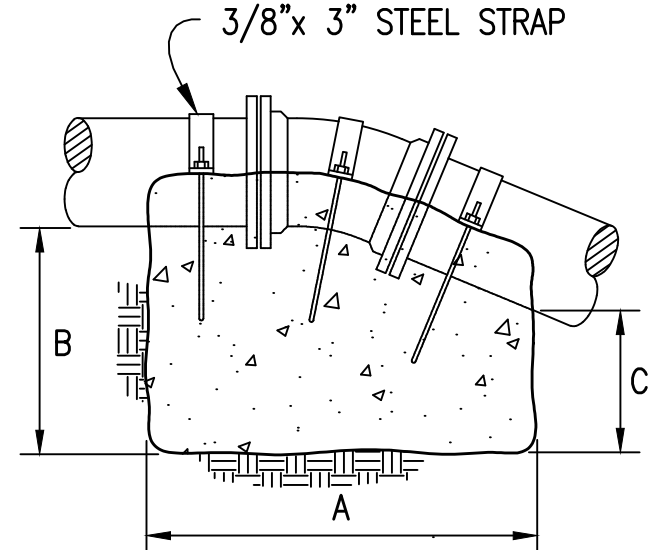
22 1/2° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	42	32	27	24	18	12	9
B	42	32	27	24	18	12	9
C	18	16	14	12	10	8	8
D	18	13	11	9	6	4	4

11 1/4° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	30	24	21	17	12	9	9
B	30	24	21	17	12	9	9
C	18	16	14	12	10	8	8
D	12	9	8	6	5	4	4

PLUG							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	66	52	43	34	27	20	18
B	66	52	43	34	27	20	18
C	12	12	12	12	12	12	12
D	44	32	22	15	11	11	11

TEE							
SIZE	MAIN BRANCH	16"	12"	10"	8"	6"	4"
A		66	52	43	34	43	26
B		66	52	43	34	43	26
C		30	12	12	12	12	12
D		30	26	21	14	21	13

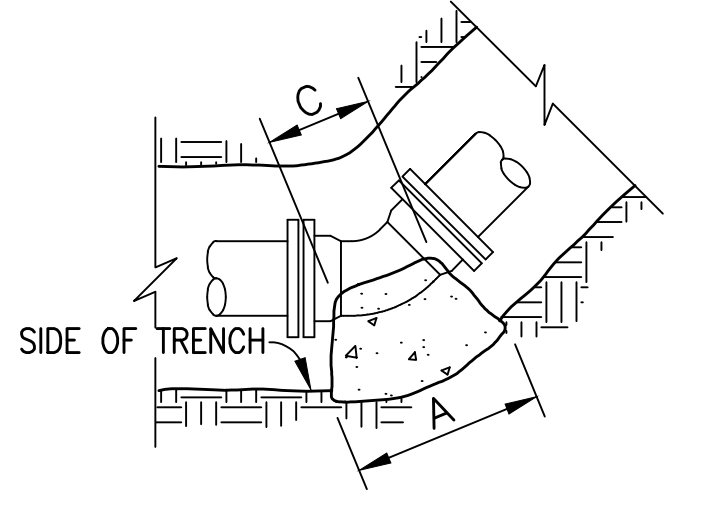
DIMENSIONS ARE IN INCHES



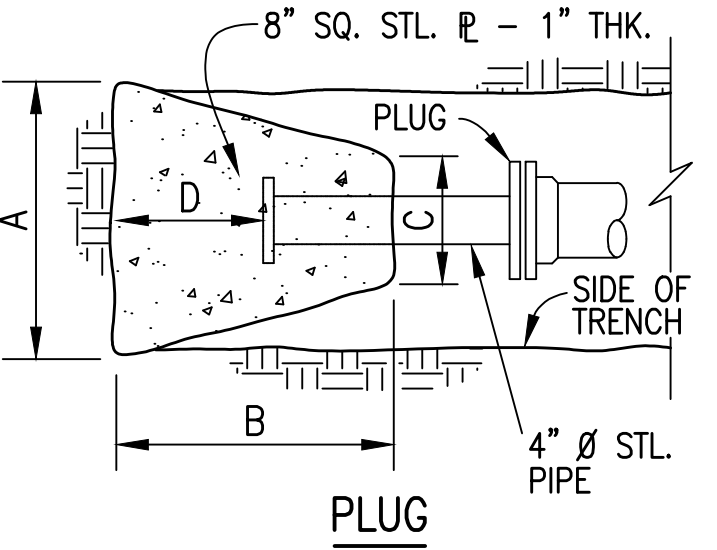
- NOTES:
- THRUST BLOCKS DESIGNED FOR 150 PSI PRESSURE. FOR GREATER PRESSURE QUANTITIES WILL HAVE TO BE RECALCULATED.
 - THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 - IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
 - THRUST BLOCKING TO BE POURED IN PLACE - CLASS "C" CONCRETE.

VERTICAL CONCRETE ANCHOR

NOT TO SCALE

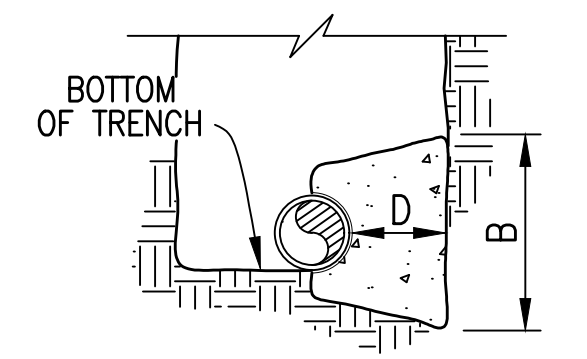


45° - 22 1/2° - 11 1/4° BEND



PLUG

- NOTES:
- THRUST BLOCKS DESIGNED FOR 200 PSI PRESSURE AND 2000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING, QUANTITIES WILL HAVE TO BE RECALCULATED.
 - THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 - IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
 - THRUST BLOCKING TO BE POURED IN PLACE CLASS C CONC.

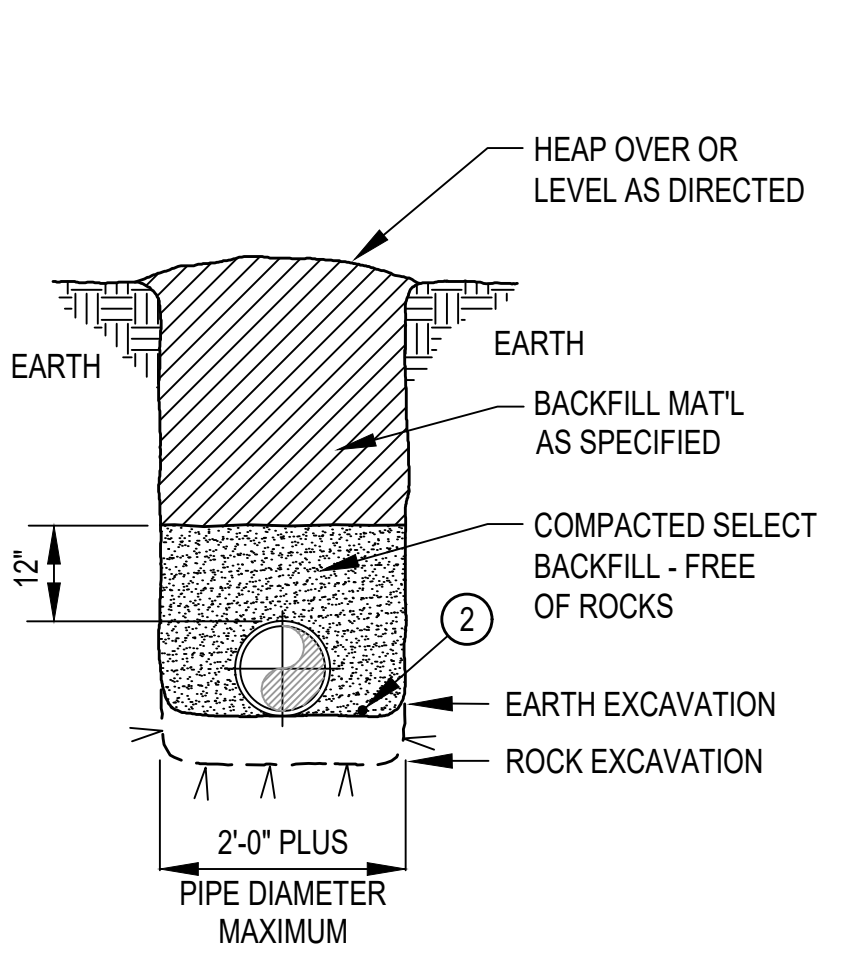


TYPICAL SECTION

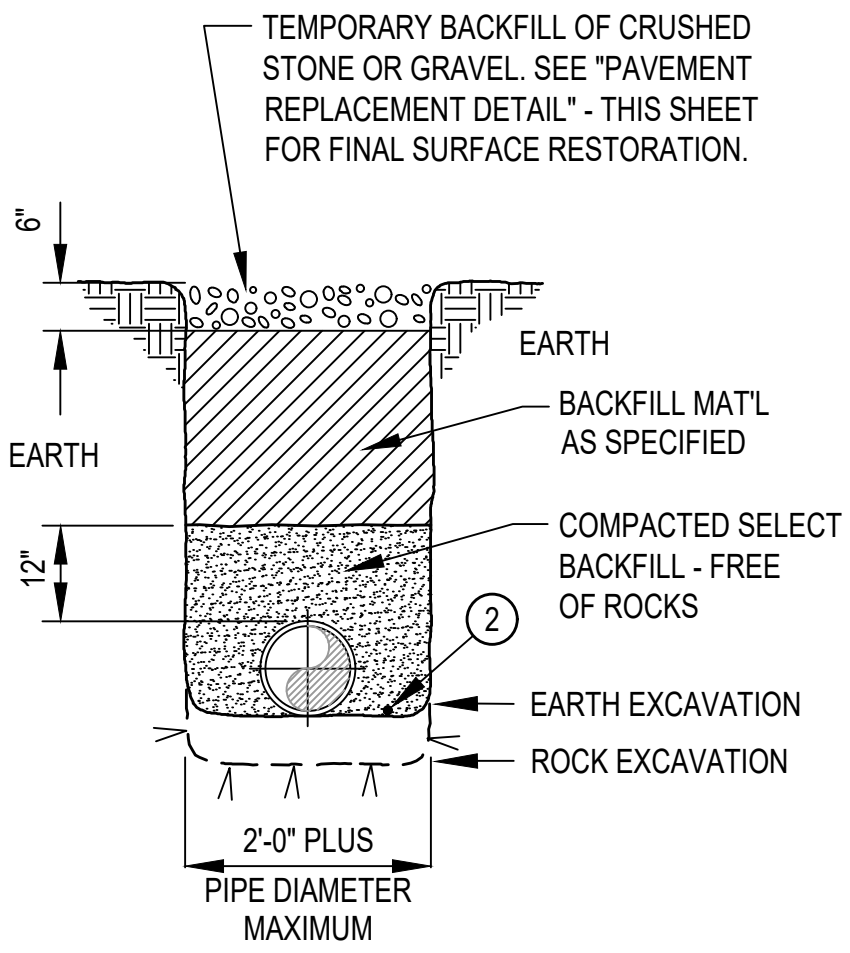
THRUST BLOCKING DETAIL

NOT TO SCALE

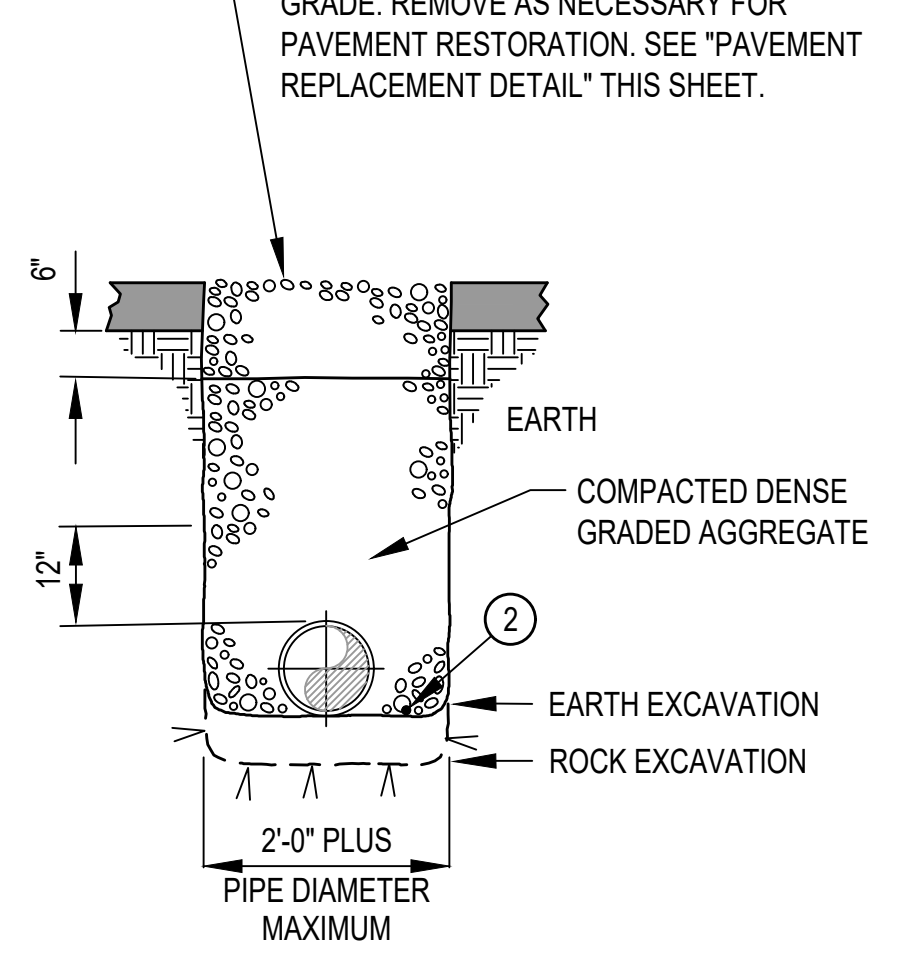
- NOTE:
- SEE SPECIFICATIONS FOR DEPTH REQUIREMENT OF PIPE.
 - DETECTOR WIRE, IF REQUIRED. SEE "DETECTOR WIRE DETAIL" FOR CORRECT PLACEMENT.



METHOD "A" (IN OPEN TERRAIN)



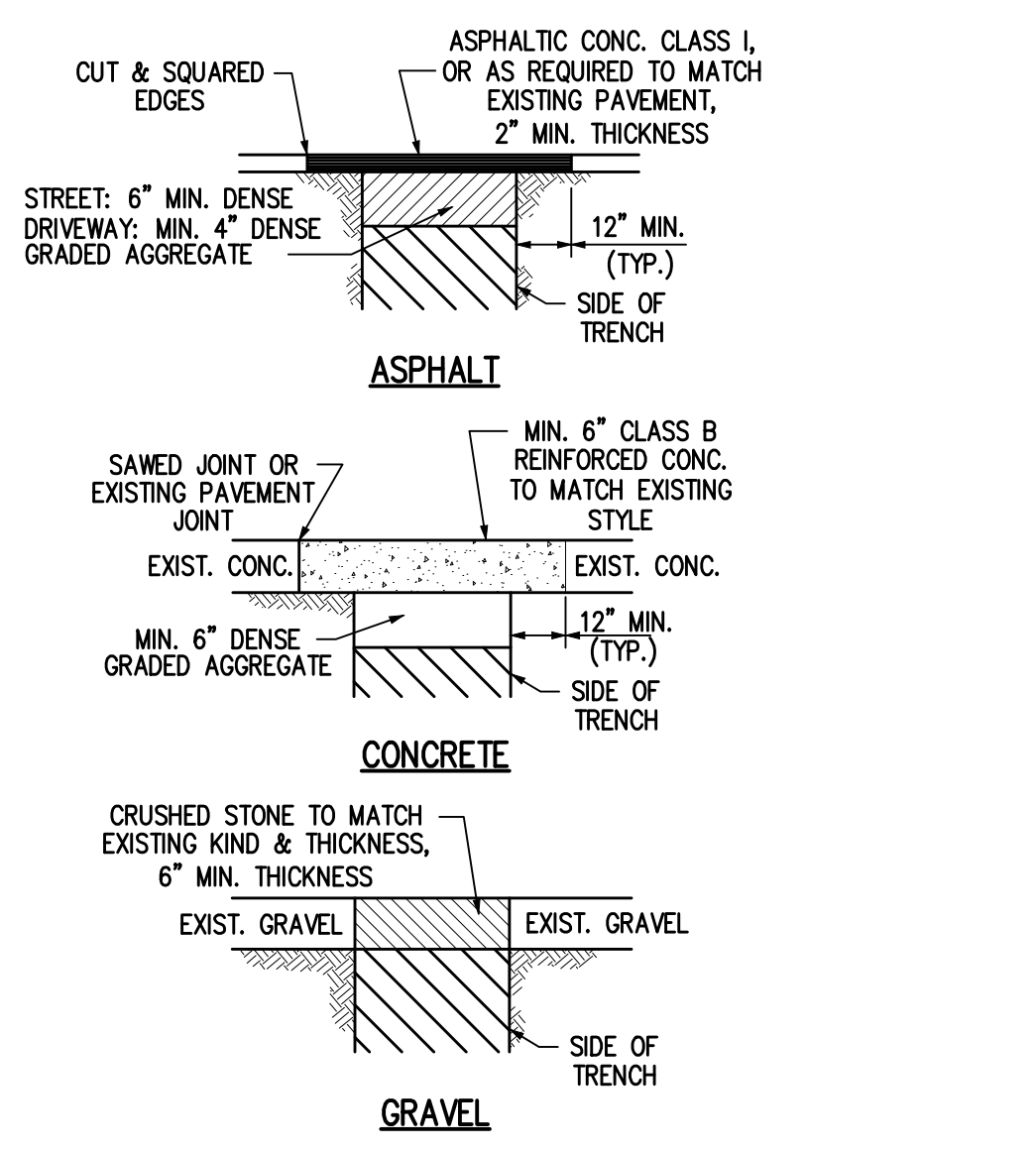
METHOD "B" (UNDER DIRT ENTRANCES)



METHOD "C" (UNDER PAVED STREETS, ROADS & DRIVEWAYS)

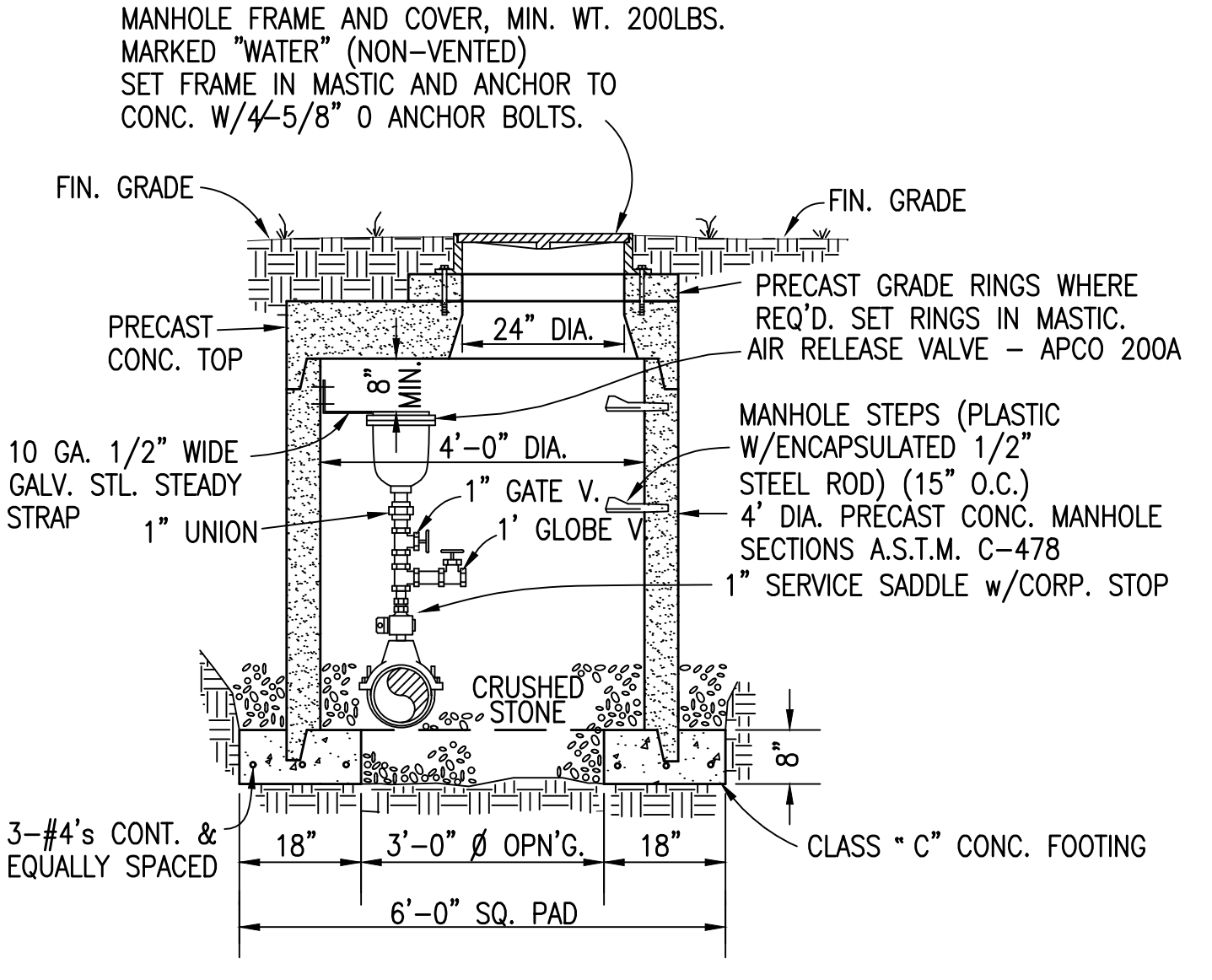
PRESSURE PIPE BEDDING & BACKFILLING DETAILS

NOT TO SCALE



PAVEMENT REPLACEMENT DETAIL

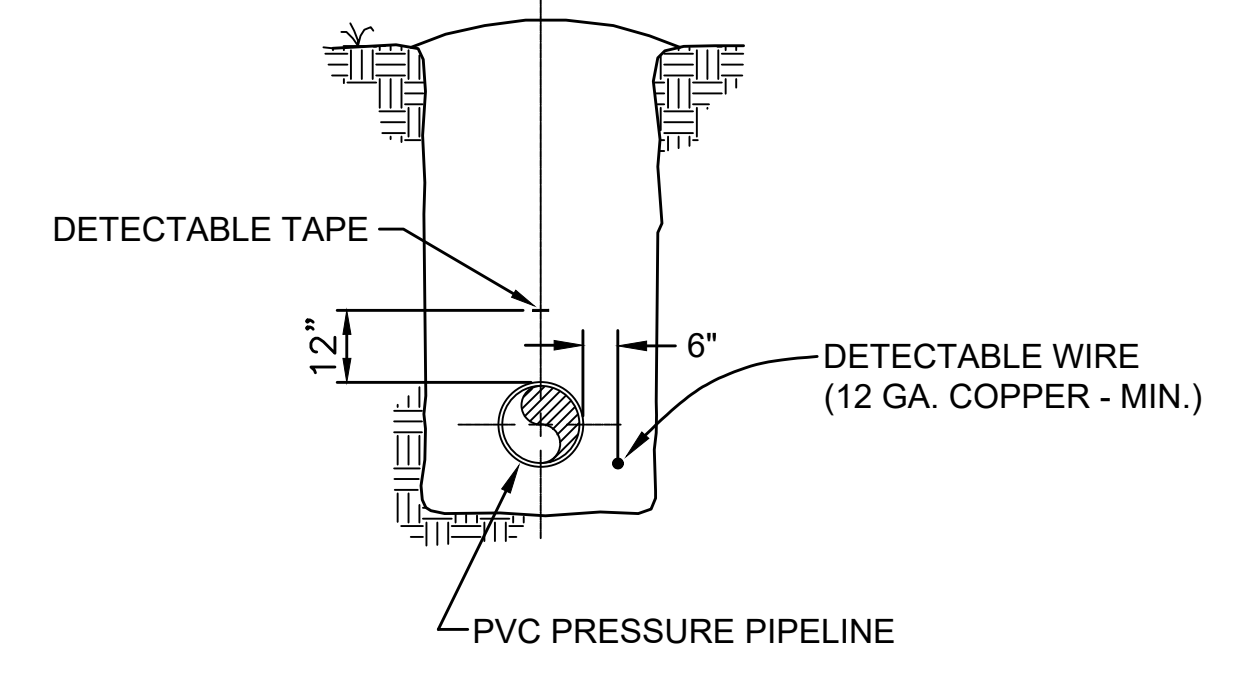
NOT TO SCALE



AIR RELEASE/AIR VACUUM VALVE

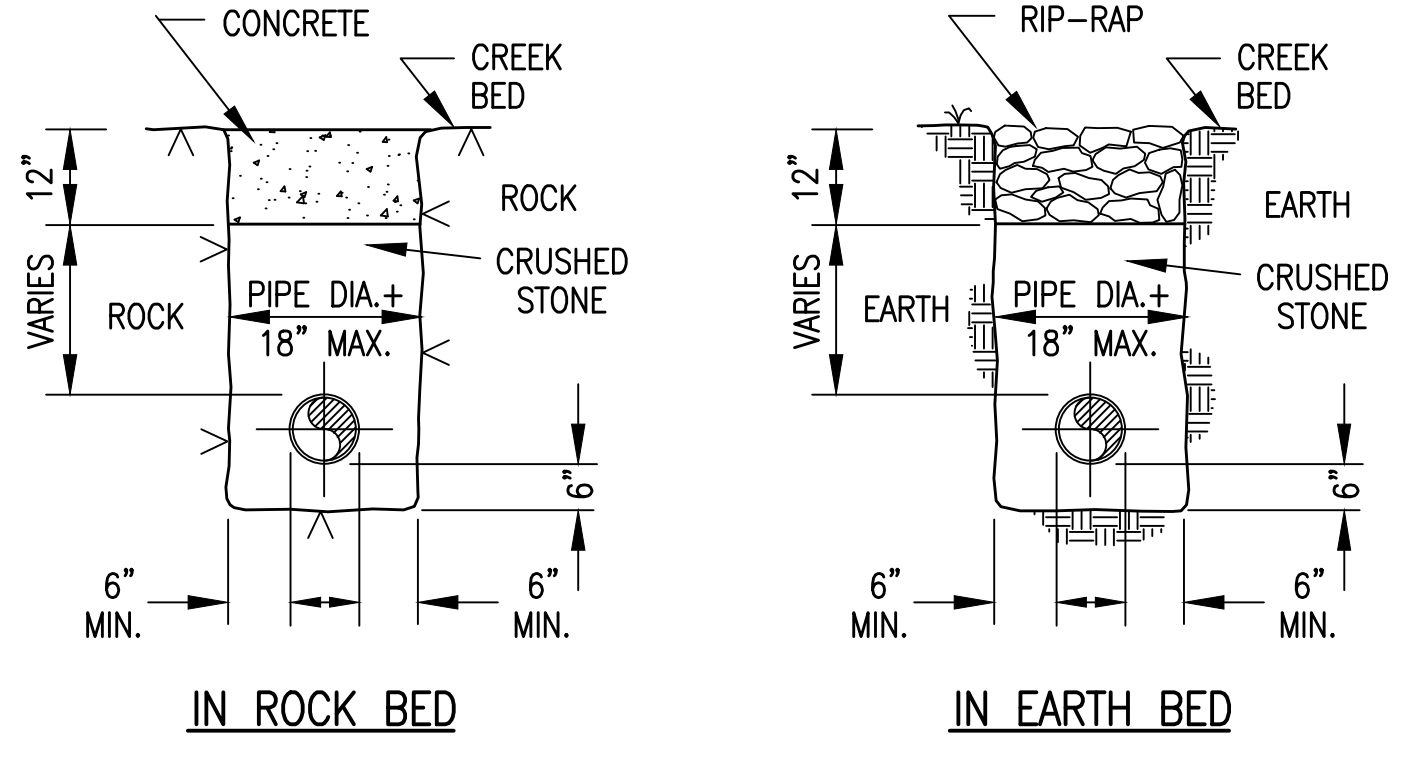
NOT TO SCALE

- NOTES:
- CONNECT WIRE TO METAL VALVE BOXES.



DETECTOR WIRE DETAIL

NOT TO SCALE



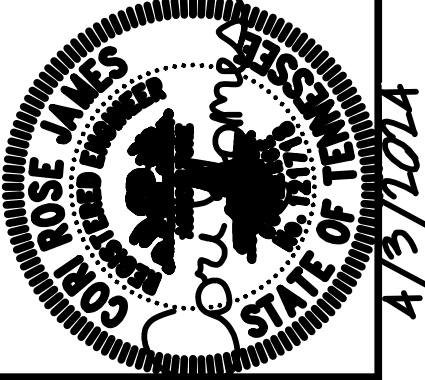
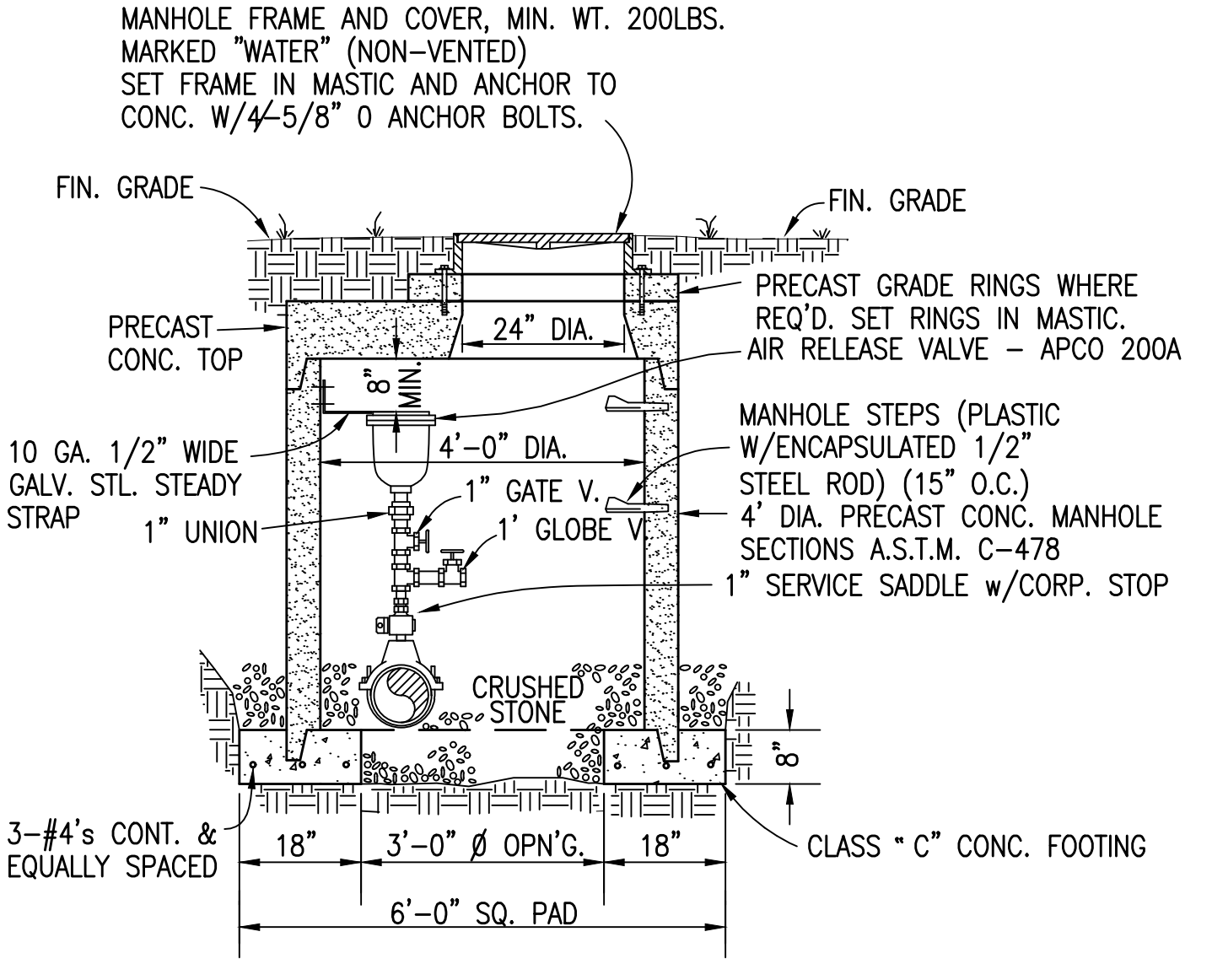
IN ROCK BED

IN EARTH BED

DITCH CROSSING DETAIL

NOT TO SCALE

- NOTES:
- USE TRAFFIC MANHOLE FRAME & COVER WHEN IN ROADWAY (JBS 1311 OR EQUAL).
 - PIPE GRADE SHALL BE LOWERED, IF REQUIRED, WHEN APPROACHING AIR RELEASE VALVE TO GIVE VERTICAL SPACE FOR AIR RELEASE APPURTENANCES. (SEE SHOP DRAWINGS)
 - SEAL PIPE THROUGH MANHOLE OPENINGS W/NON-SHRINK GROUT.
 - ALL ACCESSARY VALVES AND PIPING SHALL BE BRASS.



GRW PROJECT NO. 4879-03

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STANDARD WATER LINE DETAILS

2020 SYSTEM UPGRADE ALPHA-TALBOTT UTILITY DISTRICT

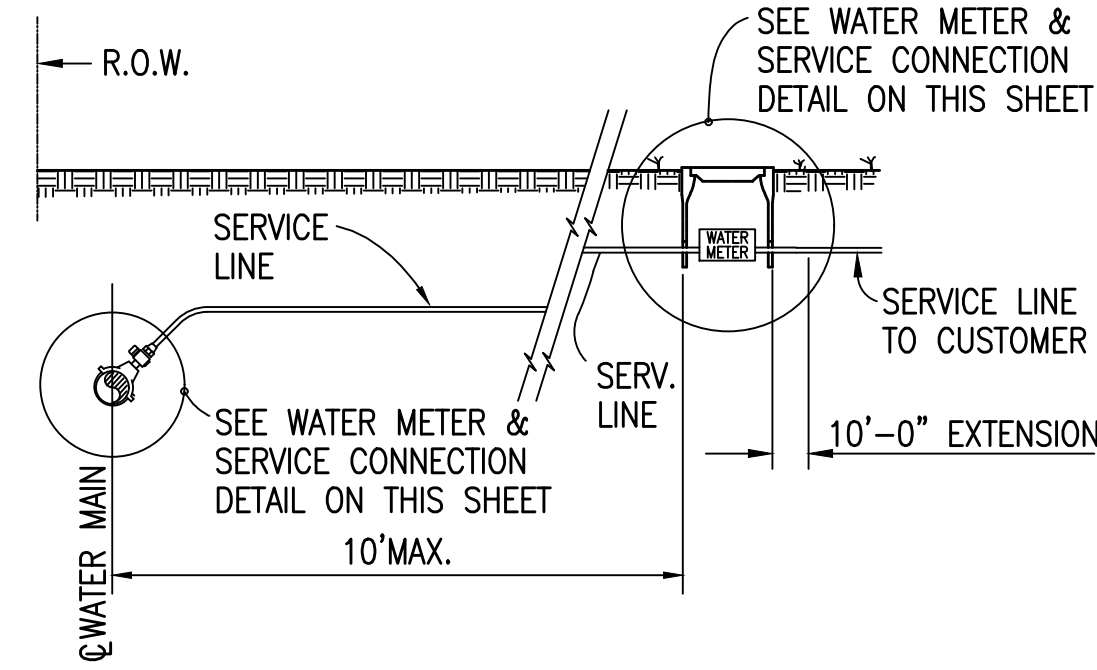
REVISIONS	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
NO.								

DATE: APRIL 2024
SCALE: AS NOTED
SHEET NO.

SD-04

SERVICE CONNECTION NOT UNDER ROADWAY LUMP SUM BID ITEM INCLUDES:

1. METER BOX INSTALLATION AND APPURTENANCES
2. WATER MAIN CONNECTION AND APPURTENANCES

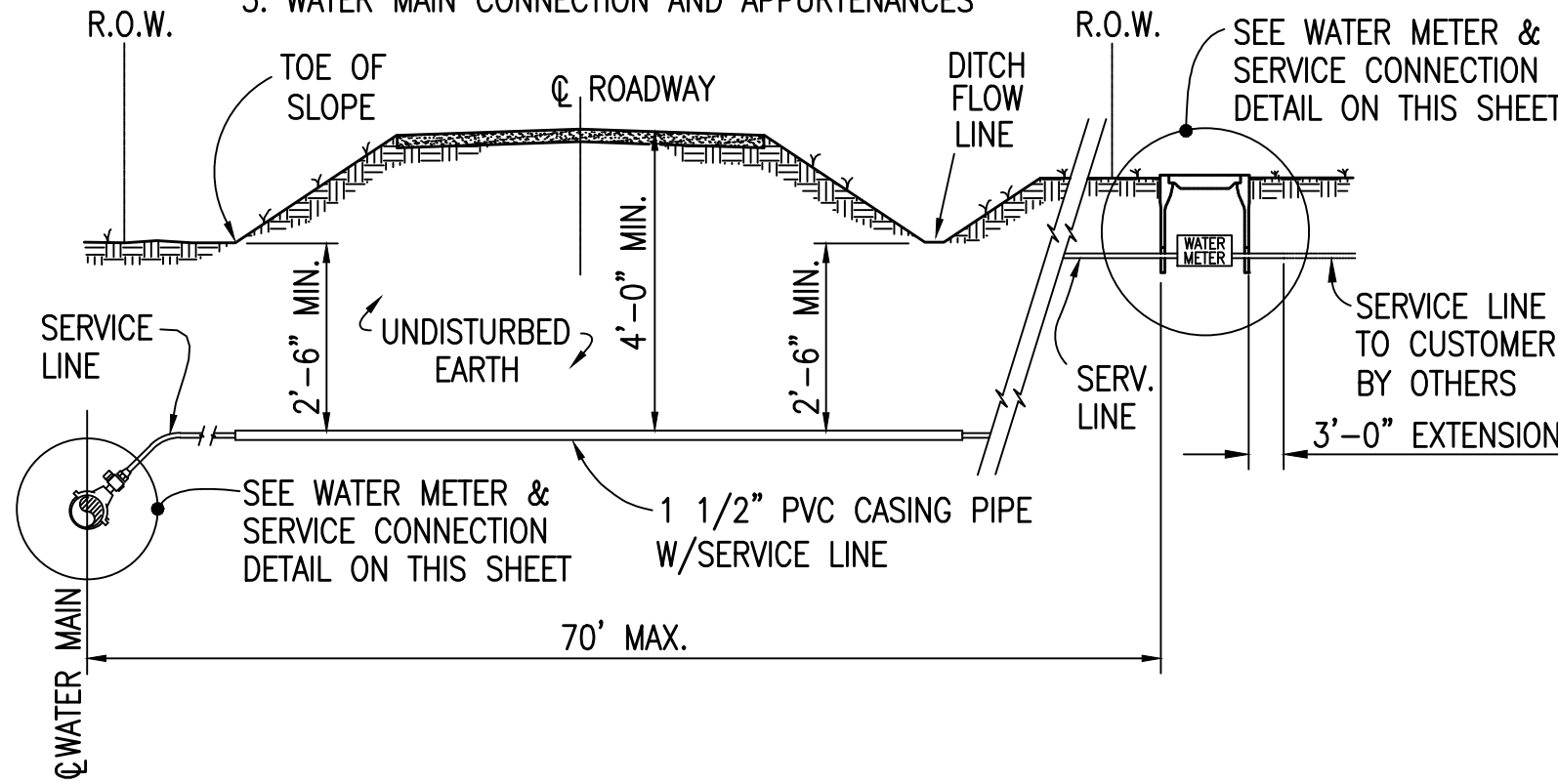


TYPE "A" SERVICE CONNECTION NOT UNDER ROADWAY

NOT TO SCALE

SERVICE CONNECTION UNDER ROADWAY LUMP SUM BID ITEM INCLUDES:

1. METER BOX INSTALLATION AND APPURTENANCES
2. BORE & JACK UNDER ROADWAY W/PVC CASING PIPE AND SERVICE LINE
3. WATER MAIN CONNECTION AND APPURTENANCES

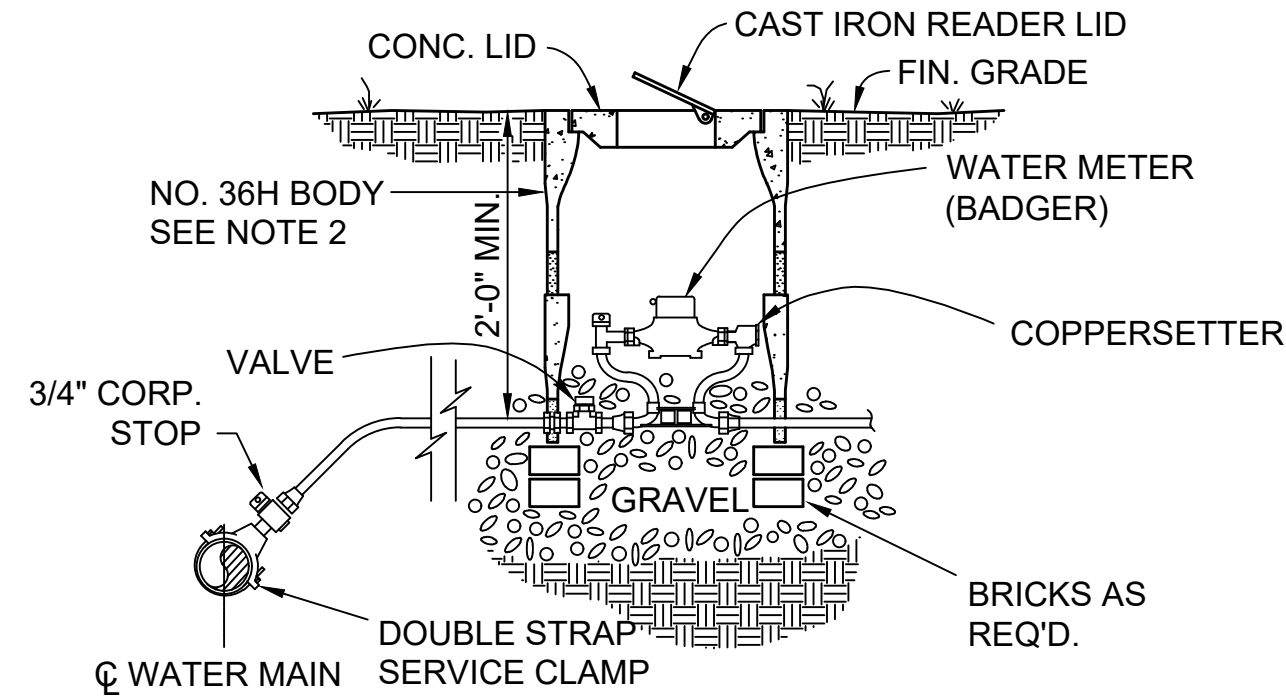


TYPE "B" SERVICE CONNECTION UNDER ROADWAY

NOT TO SCALE

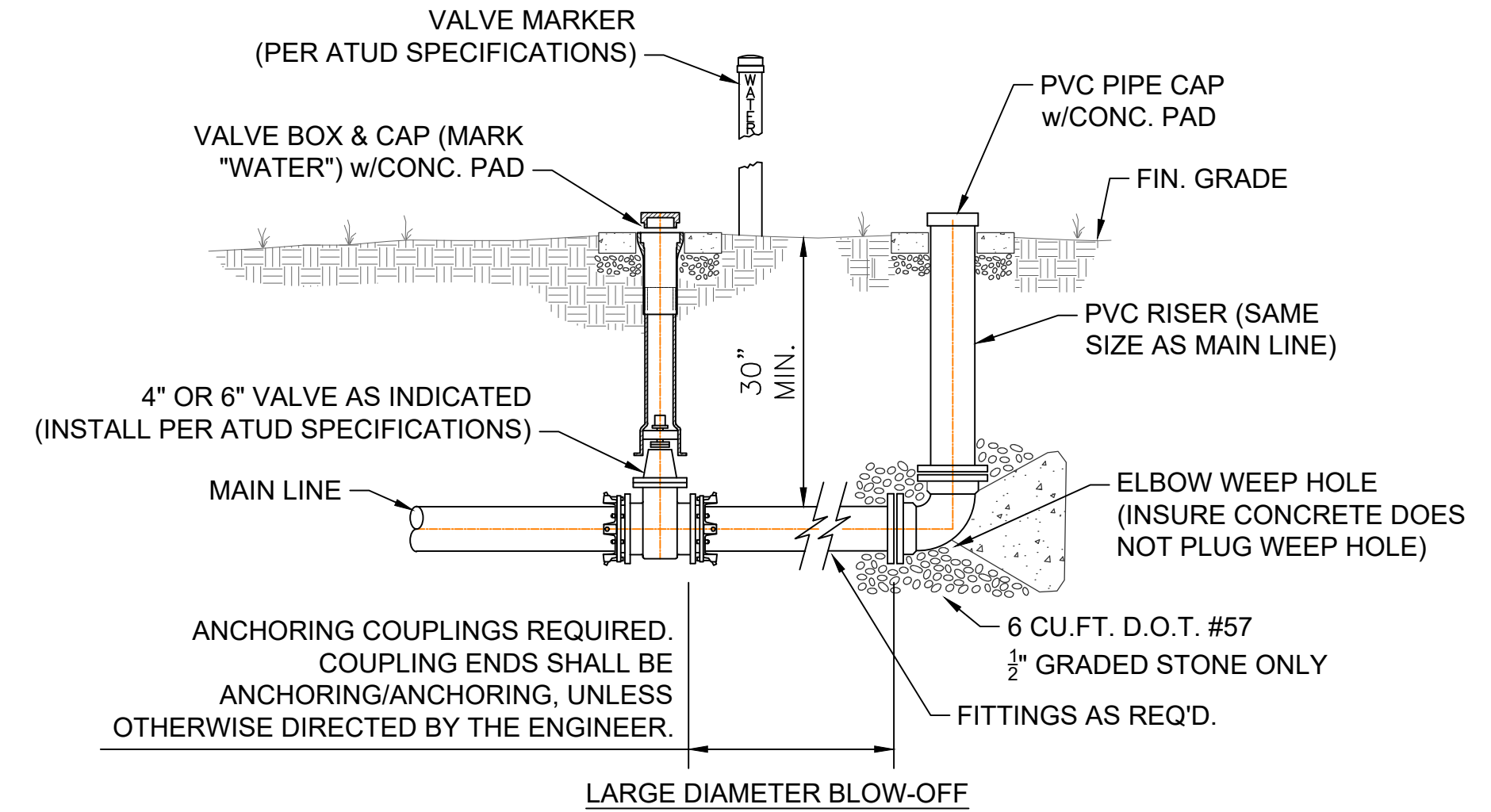
NOTES:

1. SEAL SLOTS IN METER BOX W/NON-SHRINK GROUT.
2. 10"x17" CONC. METER BOX - AS MANUF. BY BROOKS PRODUCTS, INC. MEMPHIS, TN - 36 SERIES OR APPROVED EQUAL. USE EXTENSIONS AS REQUIRED.
3. WHERE PRESSURE REGULATOR IS REQUIRED USE FORD TANDEM SETTER WITH METER BOX SIZED TO FIT.
4. FOR 1" AND LARGER METERS USE 17"x 28" METER BOX - AS MANUF. BY BROOKS PRODUCTS, INC. MEMPHIS, TN - 65 SERIES OR APPROVED EQUAL.



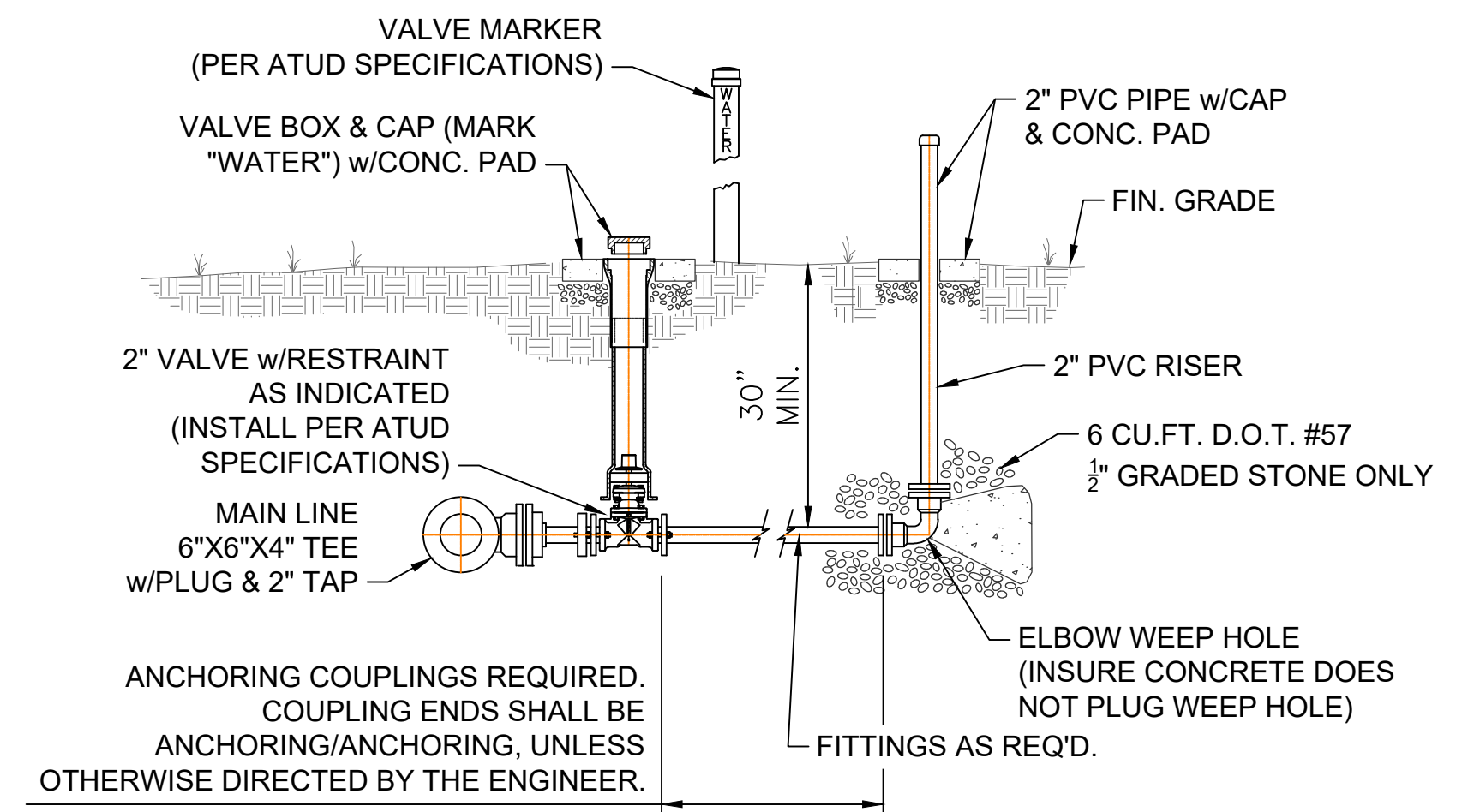
WATER METER - 3/4 INCH W/SERVICE CONNECTION

NOT TO SCALE



ALPHA-TALBOTT UTILITY DISTRICT IN-GROUND BLOW-OFF ASSEMBLY

NOT TO SCALE

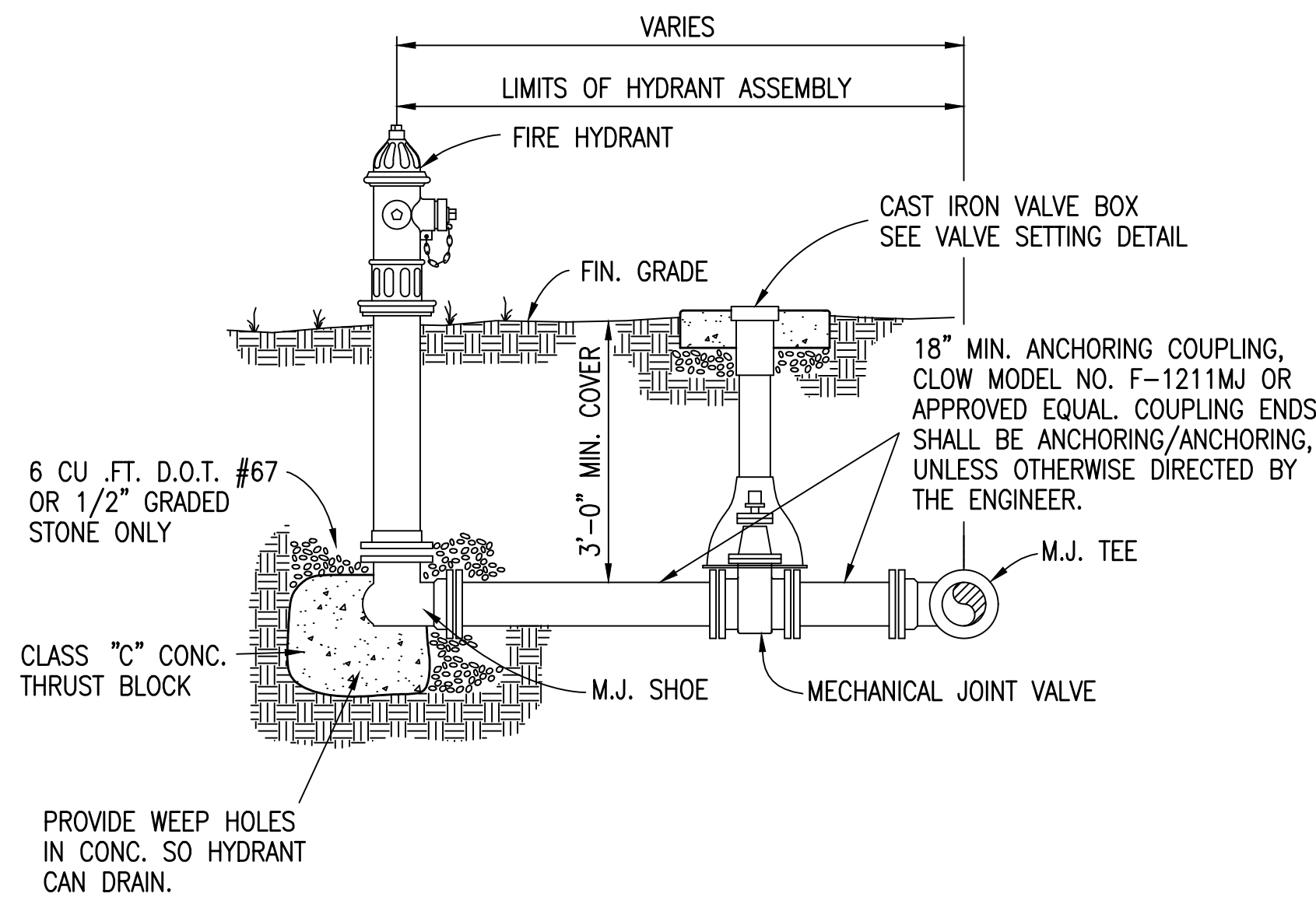


ALPHA-TALBOTT UTILITY DISTRICT IN-GROUND BLOW-OFF ASSEMBLY

NOT TO SCALE

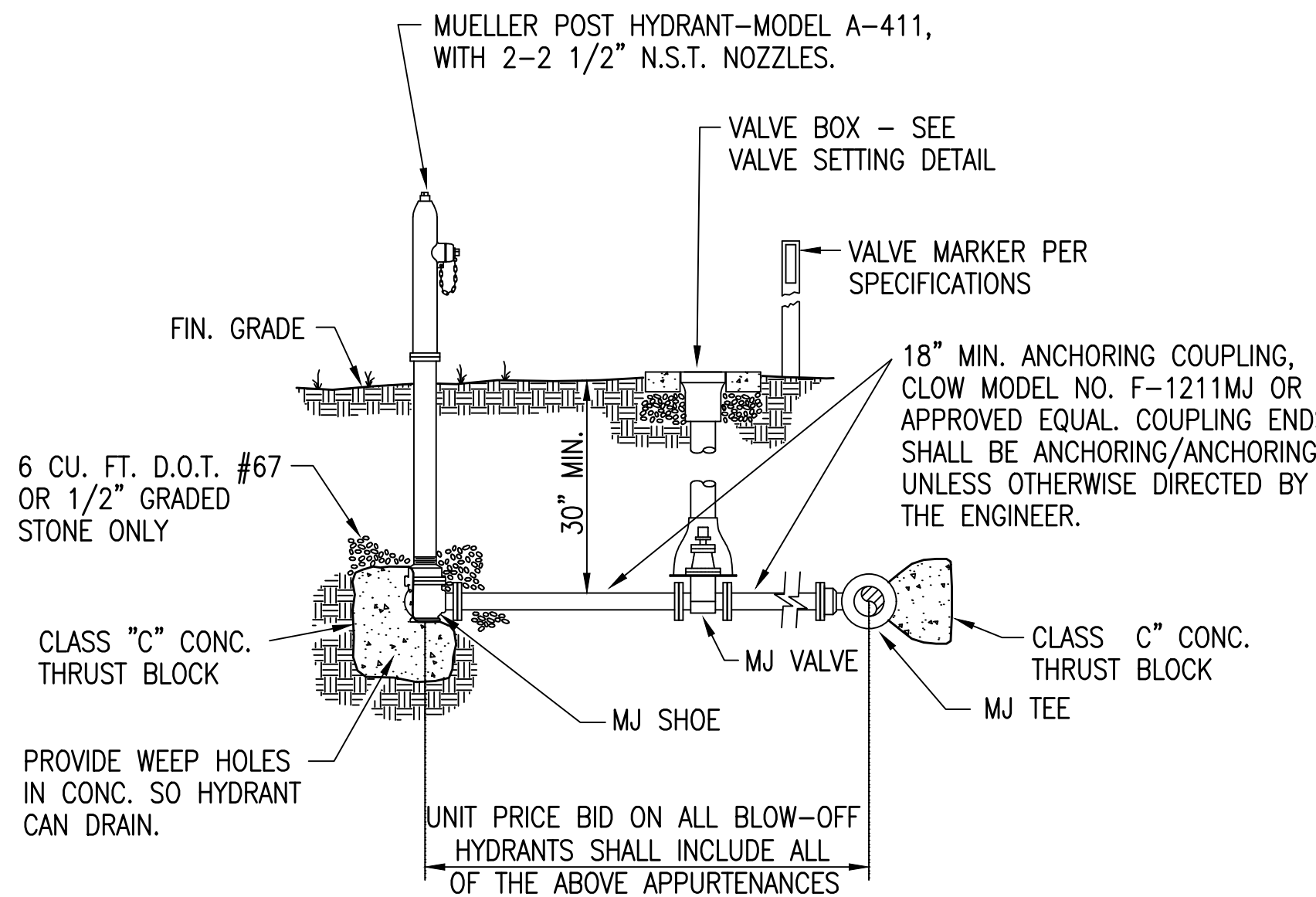
NOTES:

1. SET HYDRANT 12' TO 15' OFF EDGE OF PAVEMENT (MIN.).
2. CAP AND BLOCK TEE FOR END OF LINE APPLICATIONS.



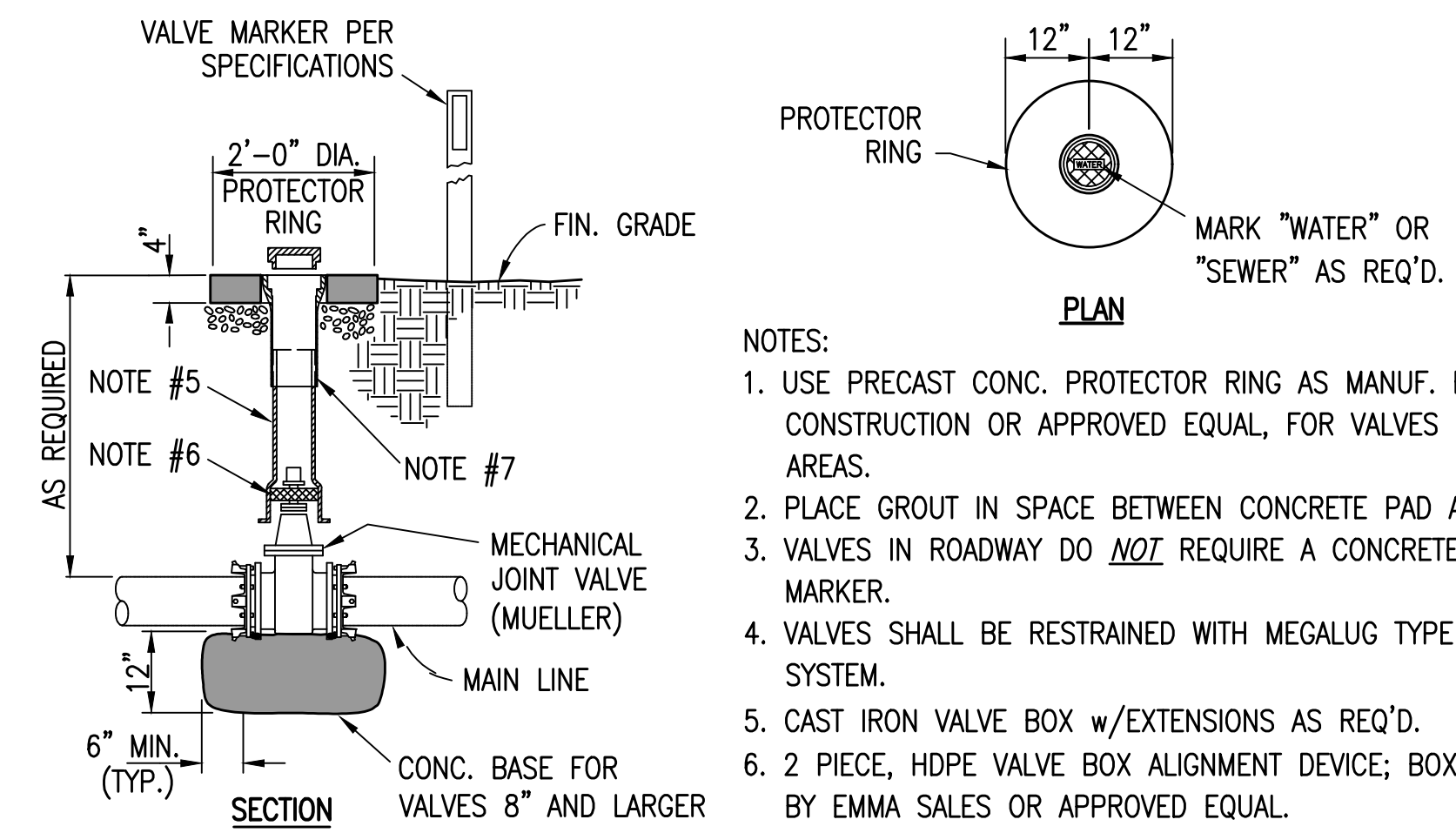
FIRE HYDRANT ASSEMBLY DETAIL

NOT TO SCALE



(4" OR SMALLER LINES) POST HYDRANT DETAIL

NOT TO SCALE

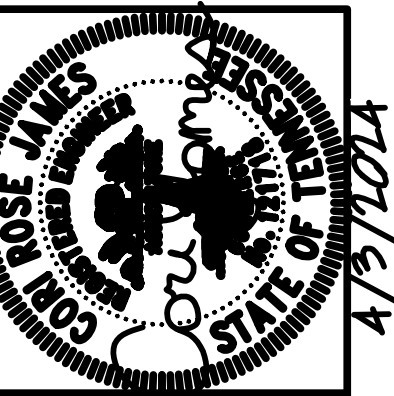


VALVE SETTING DETAIL

NOT TO SCALE

NOTES:

1. USE PRECAST CONC. PROTECTOR RING AS MANUF. BY ROSS CONSTRUCTION OR APPROVED EQUAL, FOR VALVES OUTSIDE PAVED AREAS.
2. PLACE GROUT IN SPACE BETWEEN CONCRETE PAD AND VALVE BOX.
3. VALVES IN ROADWAY DO NOT REQUIRE A CONCRETE PAD OR MARKER.
4. VALVES SHALL BE RESTRAINED WITH MEGALUG TYPE RESTRAINT SYSTEM.
5. CAST IRON VALVE BOX w/EXTENSIONS AS REQ'D.
6. 2 PIECE, HDPE VALVE BOX ALIGNMENT DEVICE; BOXLOK AS MANUF. BY EMMA SALES OR APPROVED EQUAL.
7. WRAP WL COPPER LOCATOR WIRE, (SEE DETECTOR WIRE DETAIL, SHEET 29), IN SUCH A MANNER THAT WILL TRAP THE WIRE BETWEEN VALVE BOX SECTIONS DURING ASSEMBLY.



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STANDARD WATER LINE DETAILS

2020 SYSTEM UPGRADE
ALPHA-TALBOTT UTILITY DISTRICT

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DATE: APRIL 2024
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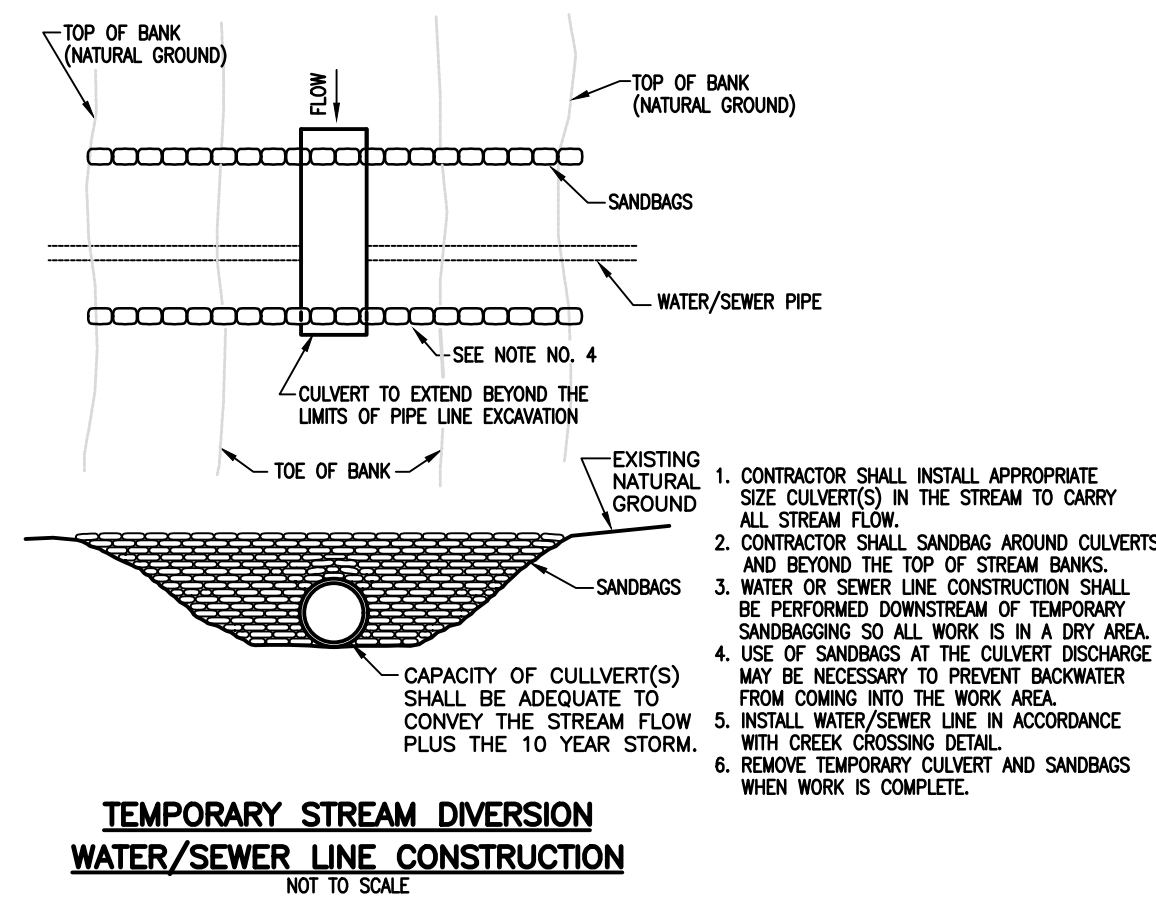
SHEET NO. SD-05

PLOTTED BY: CJames

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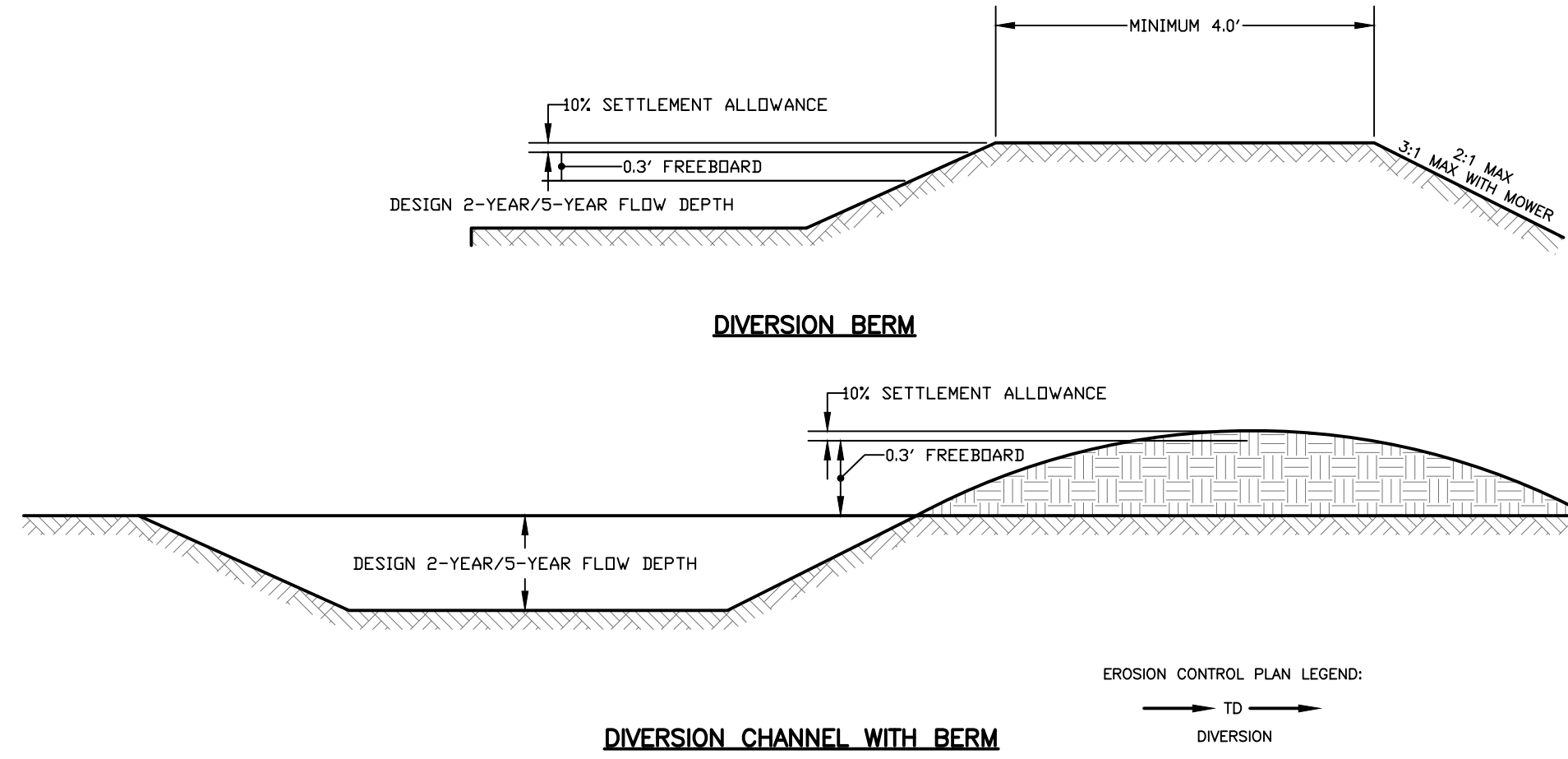
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4/3/2024



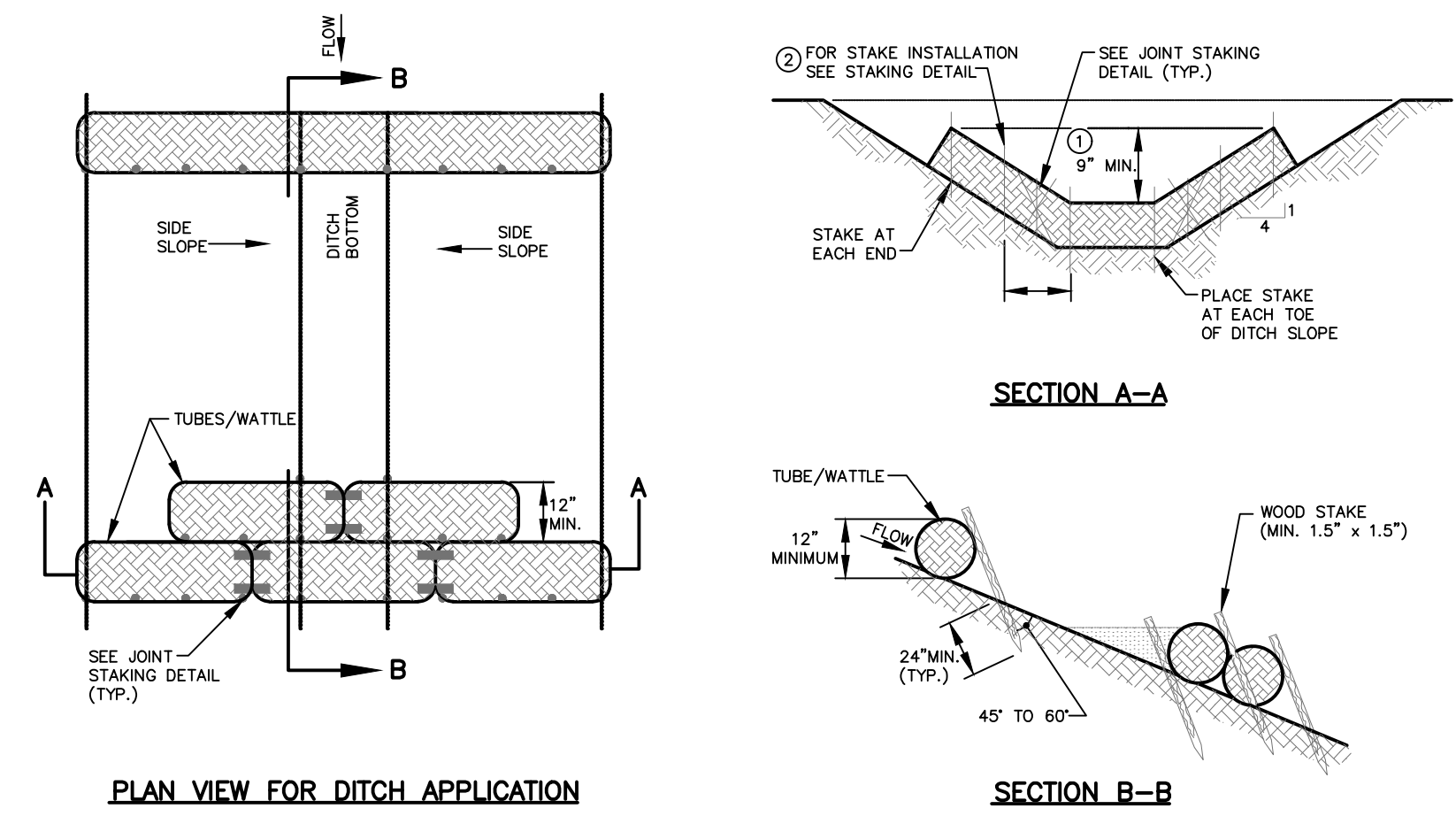
TEMPORARY STREAM DIVERSION WATER/SEWER LINE CONSTRUCTION
NOT TO SCALE

- CONTRACTOR SHALL INSTALL APPROPRIATE SIZE CULVERT(S) IN THE STREAM TO CARRY ALL STREAM FLOW.
- CONTRACTOR SHALL SANDBAG AROUND CULVERTS AND BEYOND THE TOP OF STREAM BANKS.
- WATER OR SEWER LINE CONSTRUCTION SHALL BE PERFORMED DOWNSTREAM OF TEMPORARY SANDBAGGING SO ALL WORK IS IN A DRY AREA.
- USE OF SANDBAGS AT THE CULVERT DISCHARGE MAY BE NECESSARY TO PREVENT BACKWATER FROM COMING INTO THE WORK AREA.
- INSTALL WATER/SEWER LINE IN ACCORDANCE WITH CREEK CROSSING DETAIL.
- REMOVE TEMPORARY CULVERT AND SANDBAGS WHEN WORK IS COMPLETE.



DIVERSION CHANNEL WITH BERM

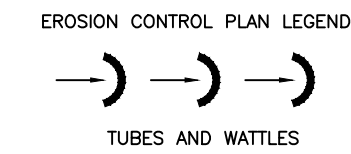
DIVERSION
TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK - CHAPTER 7.22
SCALE: NOT TO SCALE



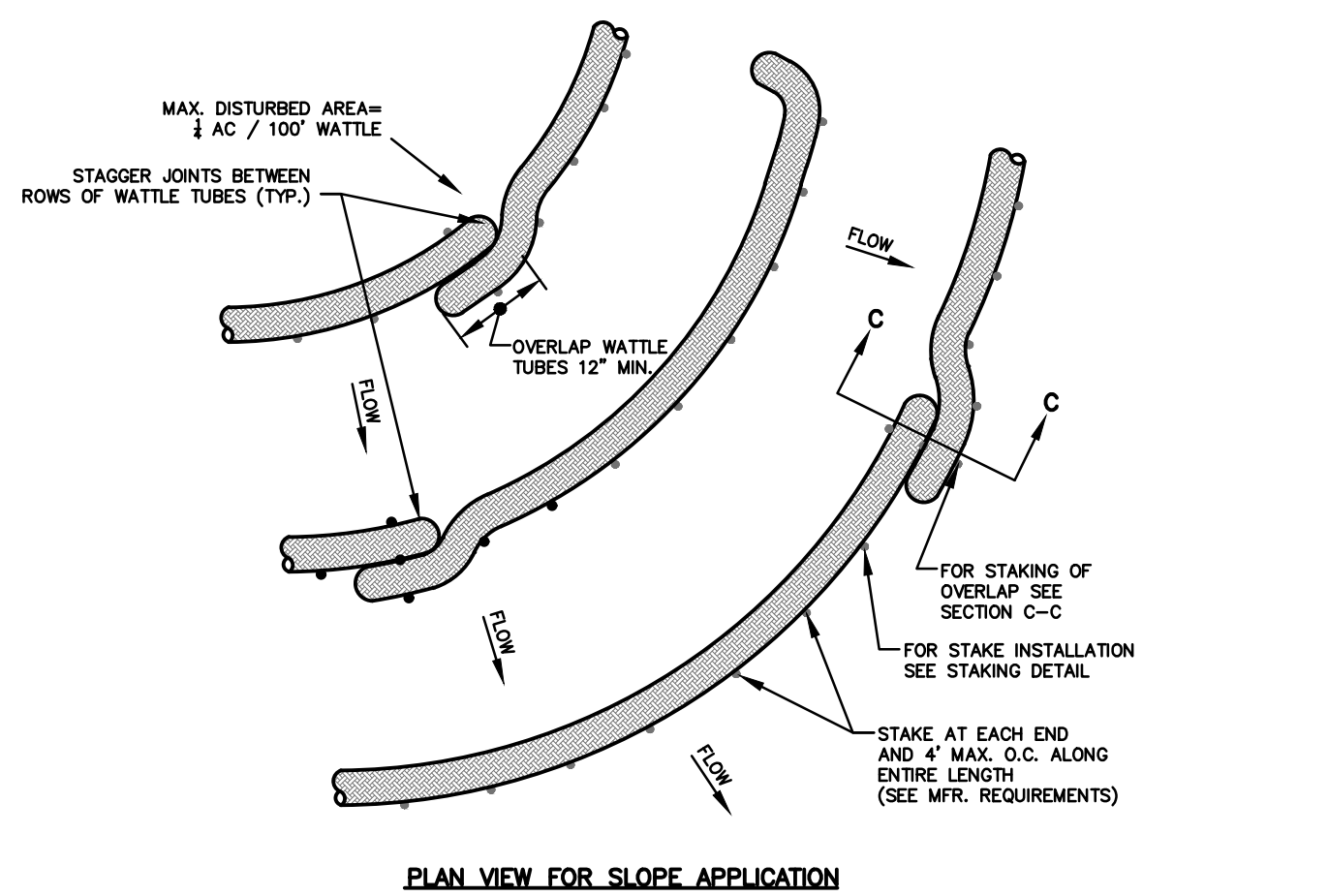
PLAN VIEW FOR DITCH APPLICATION

SECTION B-B

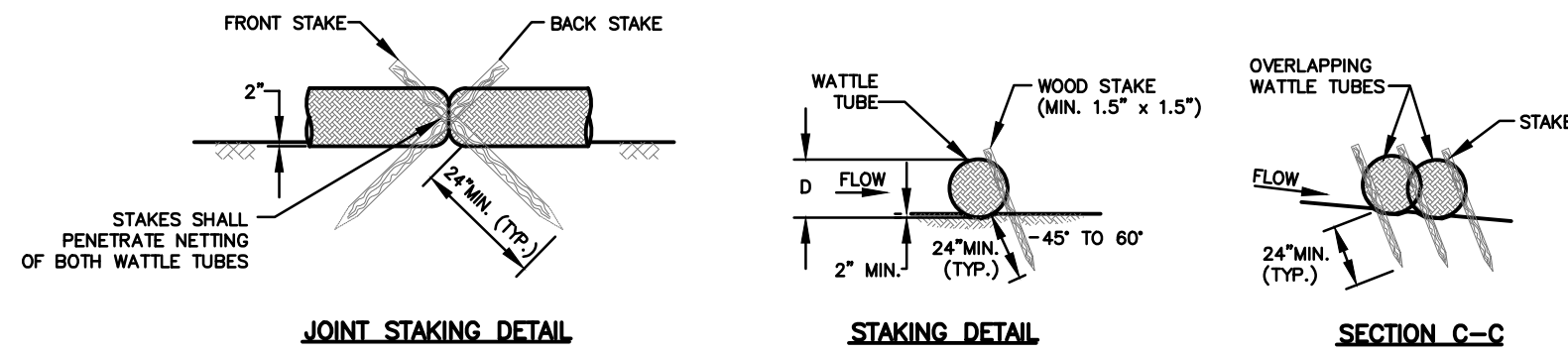
- NOTES:
- THE DEPTH AND WIDTH OF THE WEIR SECTION OF THE WATTLE SHALL BE DESIGNED TO PASS THE 2yr/24hr OR 5yr/24hr STORM EVENT WITHOUT OVERTOPPING THE CHANNEL.
 - STAKE PER MANUFACTURERS RECOMMENDATIONS.



TUBES & WATTLES FOR DITCH APPLICATION
TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK - CHAPTER 7.25
SCALE: NOT TO SCALE



PLAN VIEW FOR SLOPE APPLICATION

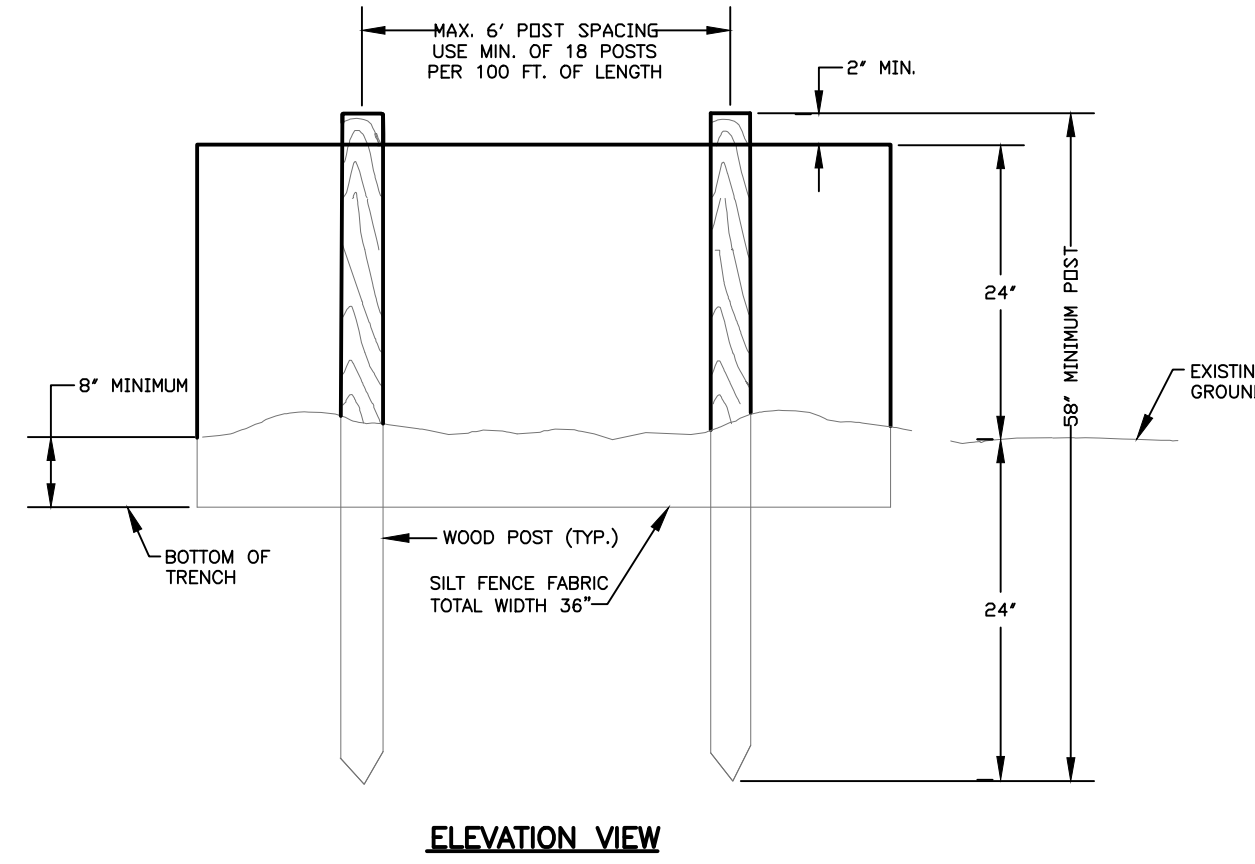


JOINT STAKING DETAIL

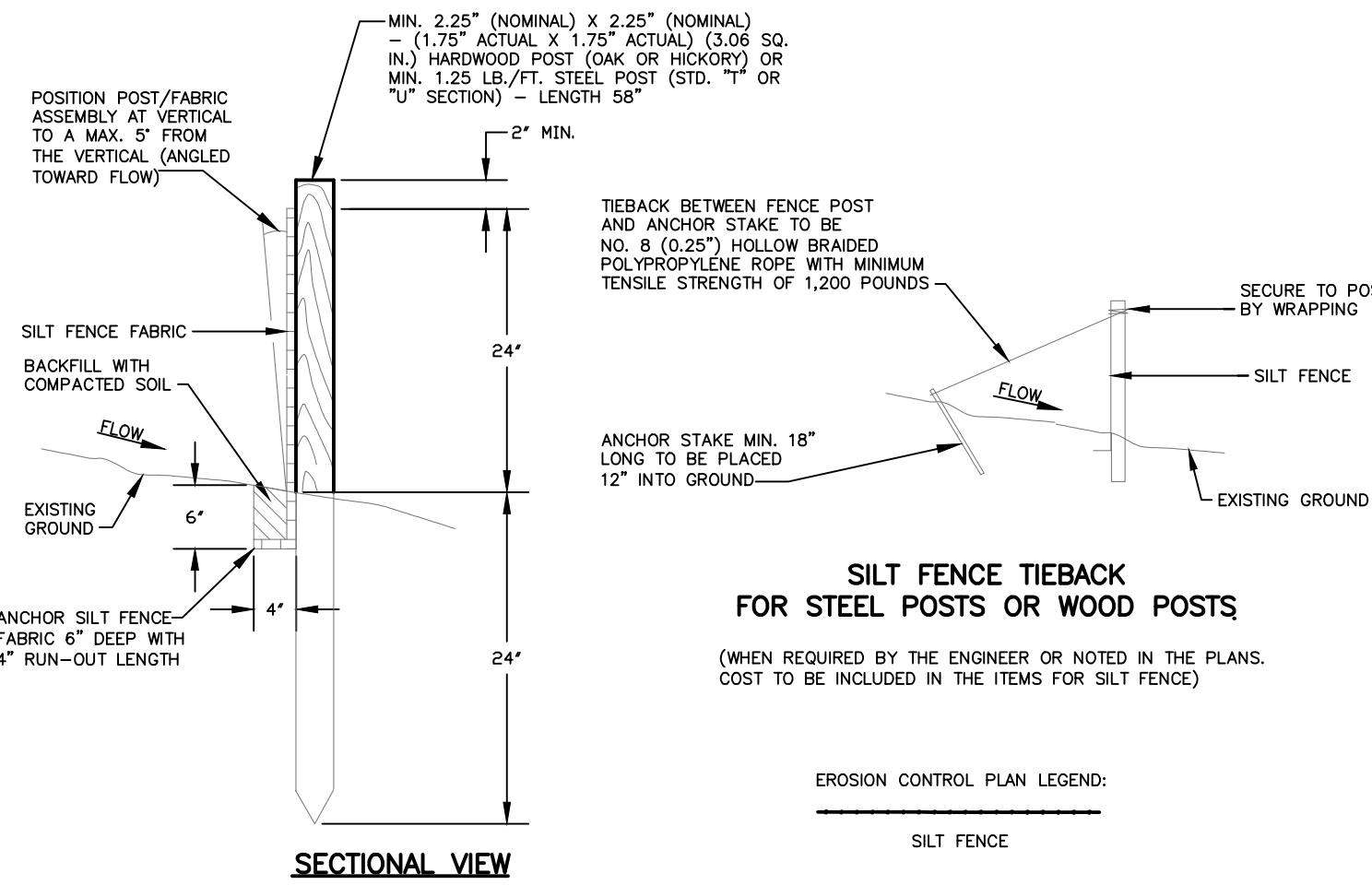
STAKING DETAIL

SECTION C-C

TUBES AND WATTLES (7.37)
NOT TO SCALE



ELEVATION VIEW



SECTIONAL VIEW

SILT FENCE TIEBACK FOR STEEL POSTS OR WOOD POSTS

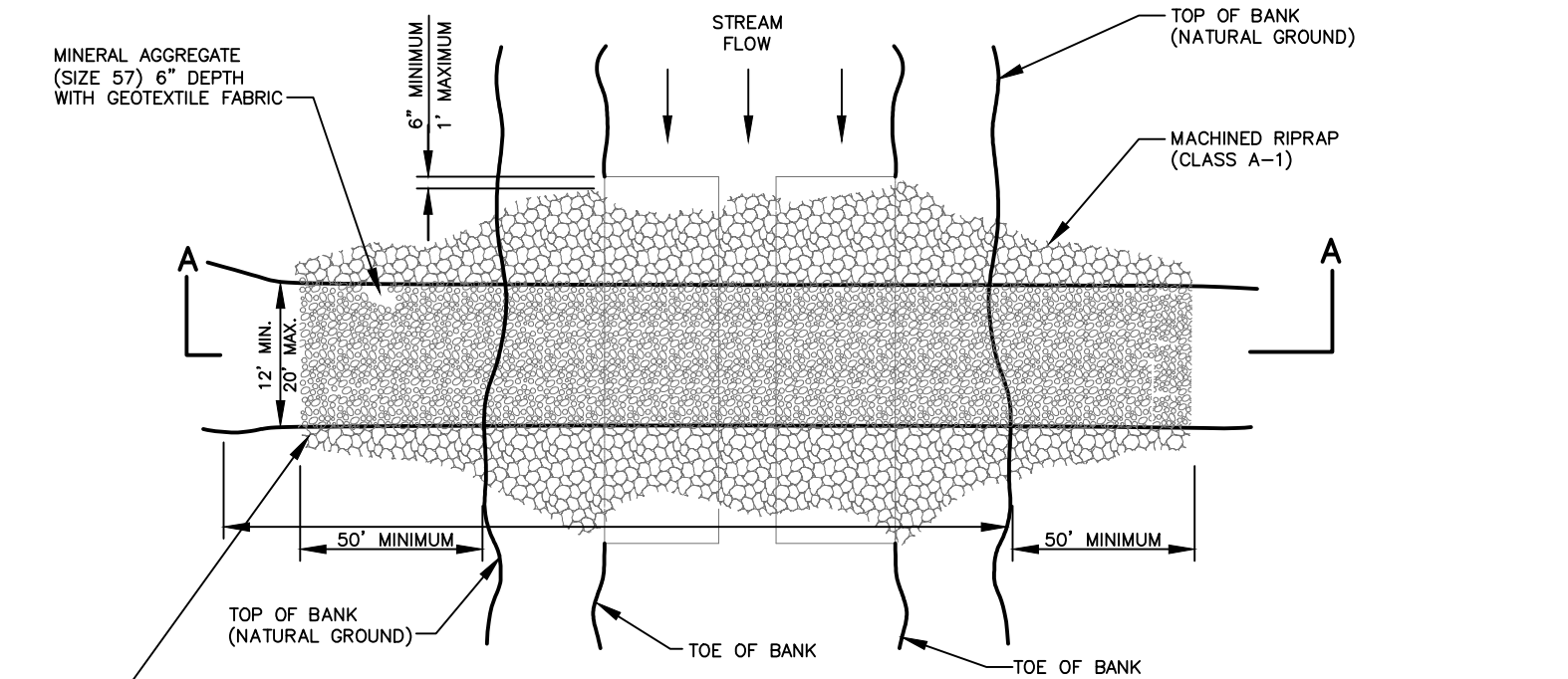
(WHEN REQUIRED BY THE ENGINEER OR NOTED IN THE PLANS, COST TO BE INCLUDED IN THE ITEMS FOR SILT FENCE)

EROSION CONTROL PLAN LEGEND:
SILT FENCE

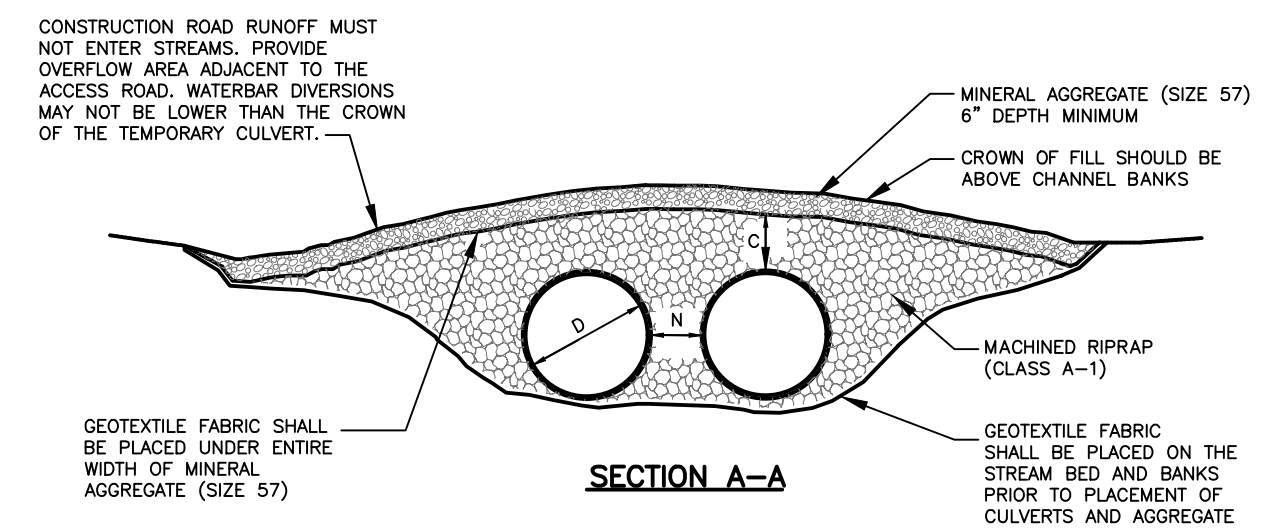
SILT FENCE

TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK - CHAPTER 7.34
SCALE: NOT TO SCALE

PIPE DIAMETER (INCHES)	AVERAGE CHANNEL SLOPE					
	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%
18	8.5	9.1	9.8	10.4	11.0	11.3
24	17.4	18.8	20.3	21.4	21.5	21.7
30	30.1	32.3	33.9	34.1	33.5	33.0
36	46.8	50.4	49.5	47.8	46.6	45.8
42	67.7	69.0	65.5	62.8	61.0	59.6
48	82.6	88.1	76.9	78.6	75.8	73.7
54	127.2	107.0	91.9	84.9	81.1	88.1
60	146.5	121.1	118.4	111.1	106.1	101.9
72	194.9	142.2	153.6	141.3	133.3	127.9
RIPRAP	B	B	B	B	B/C	B/C



PLAN VIEW OF TEMPORARY CULVERT CROSSING

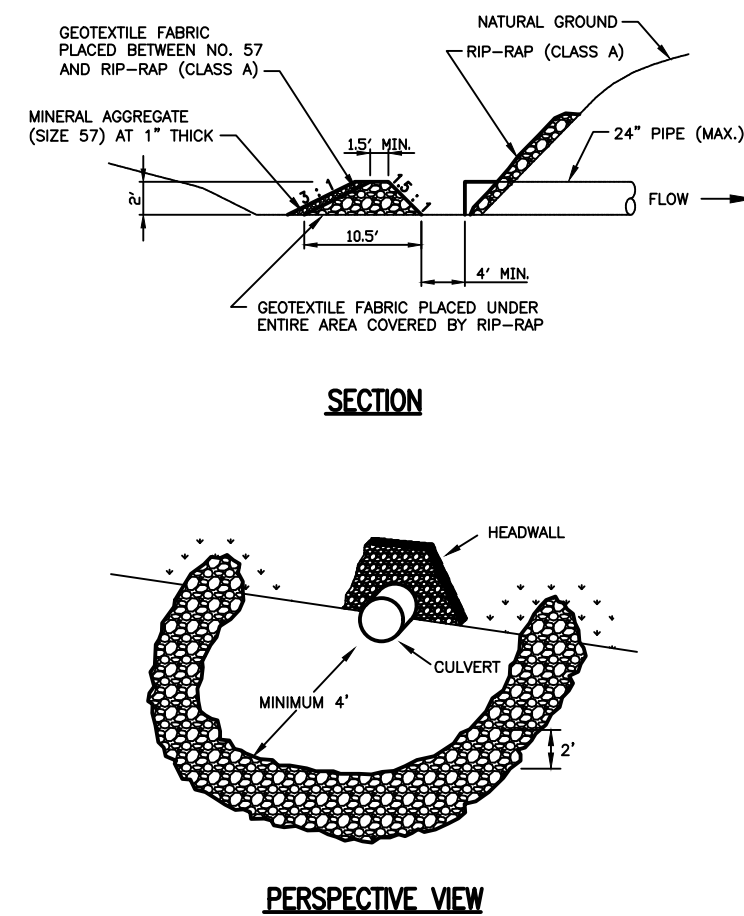


SECTION A-A

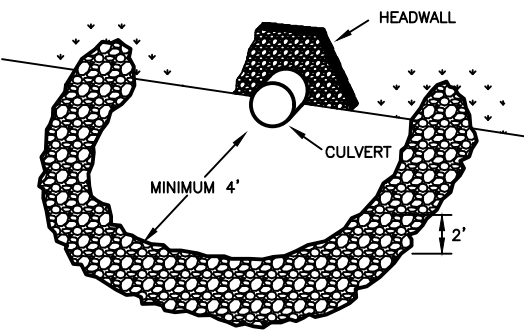
C = 1/2 DIAMETER OF PIPE OR 18" WHICHEVER IS GREATER
N = 1/2 DIAMETER OF PIPE OR 12" WHICHEVER IS GREATER
D = PIPE DIAMETER

TEMPORARY STREAM CROSSING

TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK - CHAPTER 7.43
SCALE: NOT TO SCALE



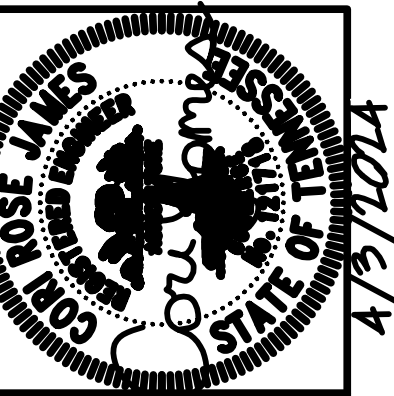
SECTION



PERSPECTIVE VIEW

STONE FILTER RING

TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK - CHAPTER 7.30
SCALE: NOT TO SCALE



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2020 SYSTEM UPGRADE
ALPHA-TALBOTT UTILITY DISTRICT

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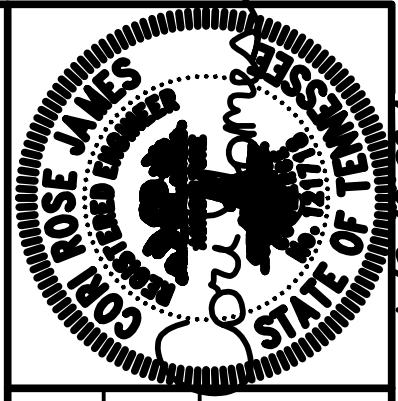
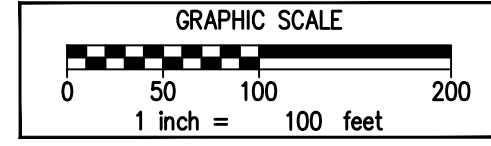
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PLOTTED BY: CJames

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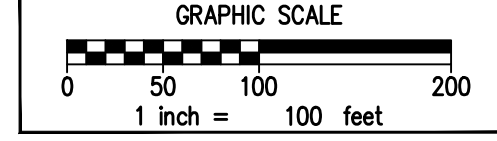
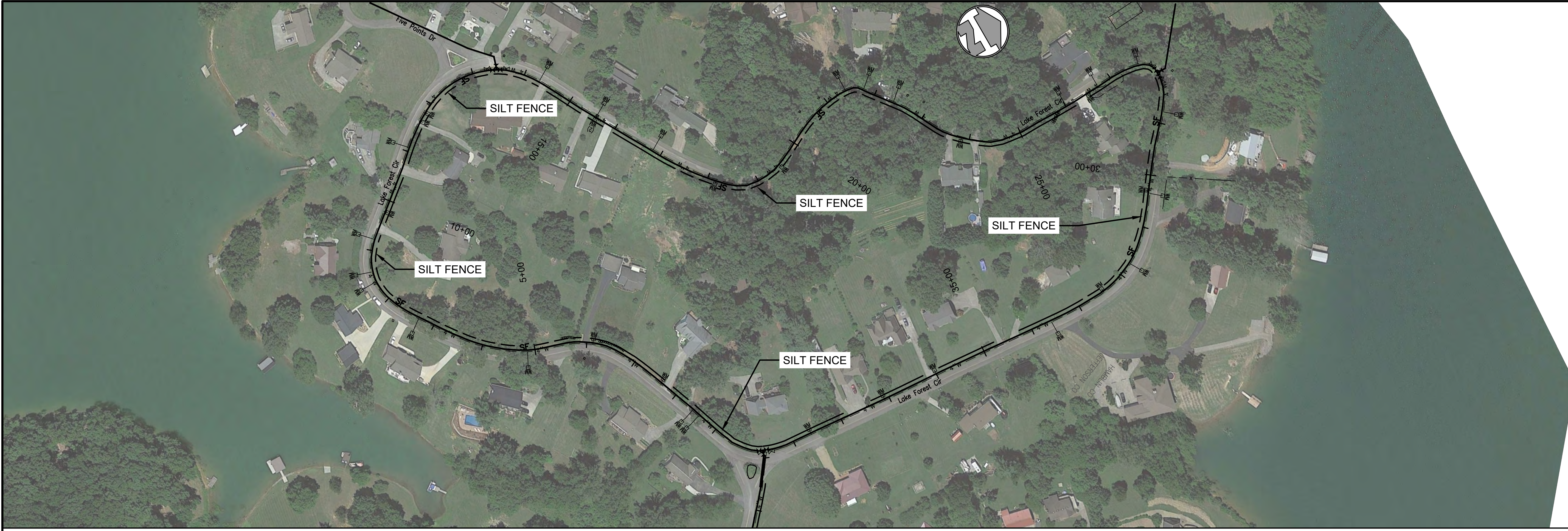
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2020 SYSTEM UPGRADE
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NO.	REVISIONS	DATE	BY

DESIGNED	JWH
DRAWN	DM/CJ
REVIEWED	JWH
APPROVED	JWH

SCALE CHECK: _____ THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE: APRIL 2024
SCALE: 1"=100'
SHEET NO. EC-07



NO.	REVISIONS DESCRIPTION	DATE	BY	DESIGNED
				JWH
				DM/CJ
				JWH
				JWH

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