

CONTRACT: C204715 STATE PROJECT NO.: 17BP.14.R.212

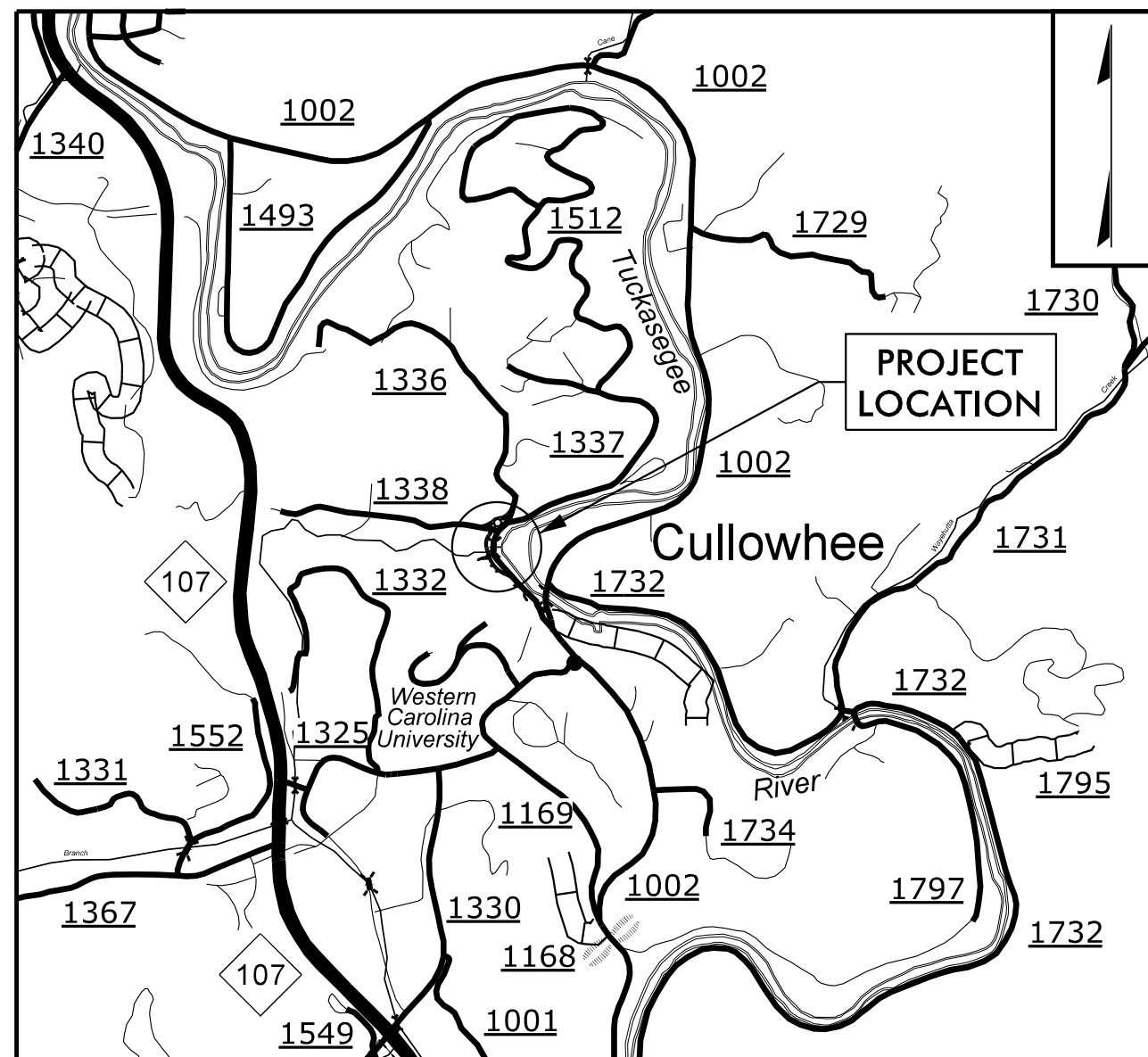
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT NO.	SHEET NO.
17BP.14.R.212	UC-1

UTILITY CONSTRUCTION PLANS JACKSON COUNTY

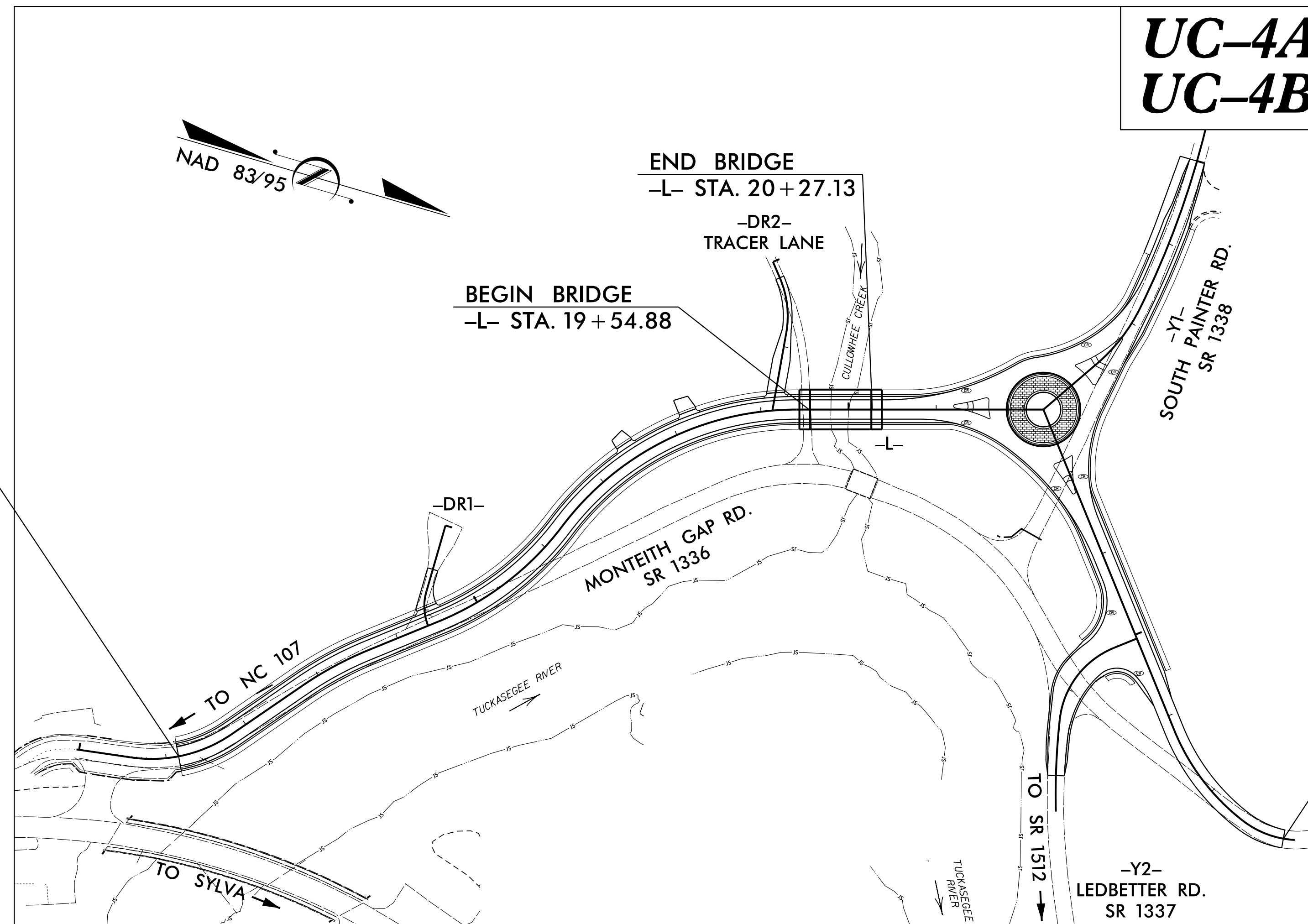
LOCATION: SR 1336 (MONTEITH GAP ROAD) FROM NORTH OF SR 1002 (OLD CULLOWHEE ROAD) TO NORTH OF SR 1337 (LEDBETTER ROAD)

TYPE OF WORK: WATER & SEWER LINE CONSTRUCTION



VICINITY MAP (NOT TO SCALE)

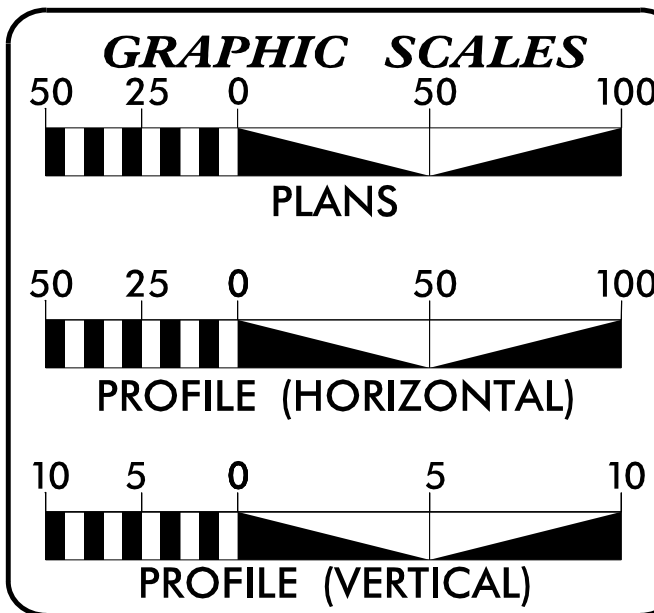
BEGIN CONSTRUCTION PROJECT 17BP.14.R.212
-L- STA. 11+14.45
TIE TO TIP PROJECT
B-4159 -Y1- STA. 11+20.00



UC-4A
UC-4B

END CONSTRUCTION
PROJECT 17BP.14.R.212
-L- STA. 28+00.00

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED



SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	UTILITY CONSTRUCTION NOTES
UC-3A thru UC-3C	UTILITY DETAILS
UC-4	UTILITY PLAN SHEET (WATER) -WL-1-, -WL-2- & -WL-3-
UC-4A	UTILITY PROFILE SHEET (WATER) -WL-1-, -WL-2- & -WL-3-
UC-4B	UTILITY PLAN & PROFILE SHEET (SEWER) -SL-1- & -SL-2-

(1) WATER & SEWER - TUCKASEEGEE WATER & SEWER AUTHORITY (TWSA)

PREPARED IN THE OFFICE OF:

Consulting Engineers
1318-F Patton Avenue
Asheville, NC 28806
(828) 253-2796

SEAL: [Professional Engineer Seal for Reece Schuler, No. 26960, State of North Carolina, expires 6/6/2023]

Reece Schuler, P.E. PROJECT UTILITY ENGINEER
James Montgomery PROJECT UTILITY COORDINATOR
David Dawson PROJECT UTILITY DESIGNER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
-DIVISION 14
253 WEBSTER ROAD
SYLVA, NC 28779
WANDA H. AUSTIN, P.E.
DIVISION ENGINEER
PHONE (828) 586-2141

Zach Shuler, P.E. PROJECT TEAM LEAD
Robert Golding DIVISION UTILITIES ENGINEER
Lynn Kieselhorst DIVISION UTILITIES COORDINATOR

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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Table listing proposed water symbols including Water Line (Sized as Shown), various Degree Bends (11 1/4, 22 1/2, 45, 90), Plug, Tee, Cross, Reducer, Gate Valve, Butterfly Valve, Tapping Valve, Line Stop, Line Stop with Bypass, Blow Off, Fire Hydrant, Relocate Fire Hydrant, Remove Fire Hydrant, Water Meter, Relocate Water Meter, Remove Water Meter, Water Pump Station, RPZ Backflow Preventer, DCV Backflow Preventer, Relocate RPZ Backflow Preventer, Relocate DCV Backflow Preventer.

PROPOSED SEWER SYMBOLS

Table listing proposed sewer symbols including Gravity Sewer Line (Sized as Shown), Force Main Sewer Line (Sized as Shown), Manhole (Sized per Note), Sewer Pump Station.

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Table listing proposed miscellaneous utilities symbols including Power Pole, Telephone Pole, Joint Use Pole, Telephone Pedestal, Utility Line by Others (Type as Shown), Trenchless Installation, Encasement by Open Cut, Encasement.

Table listing miscellaneous utilities symbols including Thrust Block, Air Release Valve, Utility Vault, Concrete Pier, Steel Pier, Plan Note, Pay Item Note.

EXISTING UTILITIES SYMBOLS

Table listing existing utilities symbols including Power Pole, Telephone Pole, Joint Use Pole, Utility Pole, Utility Pole with Base, H-Frame Pole, Power Transmission Line Tower, Water Manhole, Power Manhole, Telephone Manhole, Sanitary Sewer Manhole, Hand Hole for Cable, Power Transformer, Telephone Pedestal, CATV Pedestal, Gas Valve, Gas Meter, Located Miscellaneous Utility Object, Abandoned According to Utility Records (AATUR), End of Information (E.O.I.), and various underground and aboveground utility lines (Power, Telephone, Fiber Optics, TV, Gas, Water, Gravity Sanitary Sewer, SS Forced Main Line, Unknown Utility Line).

*For Existing Utilities
Utility Line Drawn from Record (Type as Shown)
Designated Utility Line (Type as Shown)

6-6-23
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REV: 2/1/2012

PROJECT REFERENCE NO. 17BP.14.R.212	SHEET NO. UC-3
DESIGNED BY: DRD	
DRAWN BY: DRF	
CHECKED BY: DWH	
APPROVED BY: RMS	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED	

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.

2. THE EXISTING UTILITIES BELONG TO TUCKASEIGEE WATER AND SEWER AUTHORITY (TWSA). PLEASE CONTACT MR. DANIEL MANRING, 1246 WEST MAIN STREET SYLVA, NC 28779, (828) 586-5189, dmanring@twsanc.us

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

PROJECT SPECIFIC NOTES:

WATER CONSTRUCTION NOTES:

1. ALL FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT USING GRIP RINGS. NO GLUE OR PUSH-ON FITTINGS ARE ALLOWED. THRUST BLOCKING IS REQUIRED.

2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107 AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE SHALL BE ALLOWED TO RIVER, WETLANDS OR BUFFER ZONES.

3. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTING FOR ONE WEEK FROM THE TIME OF INSTALLATION.

4. NEW WATER LINES MUST BE PRESSURE TESTED AT 200 PSI OR 1.5 TIMES AVERAGE STATIC PRESSURE IN PROJECT AREA, WHICHEVER IS MORE FOR 2 HOURS. TEST TO BE OBSERVED BY TUCKASEIGEE WATER AND SEWER REPRESENTATIVE.

5. SERVICE INTERRUPTIONS SHALL BE SCHEDULED WITH TUCKASEIGEE WATER AND SEWER AUTHORITY AND SHALL BE COMPLETED DURING OFF-PEAK HOURS- BEGINNING AFTER 9 PM AND BE COMPLETED BY 4 AM, UNLESS AUTHORIZED BY TUCKASEIGEE WATER AND SEWER AUTHORITY. INTERRUPTION SHALL NOT EXCEED 8 HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POTABLE WATER SUPPLIES TO ANY CUSTOMER UPON REQUEST BY TWSA AND/OR WHEN DURATION OF THE WATER SERVICE LOSS OR DISRUPTION EXCEEDS 4 HOURS.

6. ALL NC DEQ-DWR-PWS AND LOCAL TESTING MUST BE COMPLETED AND APPROVED PRIOR TO CONNECTING THE NEW CONSTRUCTION TO THE EXISTING WATER LINES.

7. THE PROFESSIONAL ENGINEER (PE) SHALL OBTAIN AND PROVIDE THE NC DEQ "AUTHORIZATION TO CONSTRUCT" PERMIT TO THE UTILITY CONTRACTOR BEFORE THE CONSTRUCTION OF THE WATER LINE SHALL BEGIN. THE UTILITY CONTRACTOR MUST POST A COPY OF THE NC DEQ "AUTHORIZATION TO CONSTRUCT" PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY ON SITE PRIOR TO THE START OF CONSTRUCTION. THE PERMIT MUST BE MAINTAINED ON SITE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS OF THE PROPOSED WATER LINES THAT WILL SERVE THIS PROJECT.

8. HDPE PRESSURE PIPE FOR POTABLE WATER SHALL MEET THE REQUIREMENTS OF NSF 61.

9. ANY NECESSARY CONNECTIONS FOR TESTING AND FILLING THE INSTALLED WATER MAIN WILL BE REQUIRED AND CONSIDERED INCIDENTAL TO THE WATER MAIN CONSTRUCTION.

SEWER CONSTRUCTION NOTES:

1. CONTRACTOR IS REQUIRED TO PROVIDE TWSA AND ENGINEER A SEWER BY-PASS PLAN PRIOR TO BEGINNING ANY SEWER WORK.

2. CONTRACTOR WILL BE REQUIRED TO TELEWISE SANITARY SEWER LINE PRE & POST CONSTRUCTION OF EXISTING 12" TERRACOTTA LINE .

3. CONTRACTOR WILL BE REQUIRED TO COMPLETE A SPOT REPAIR AT THE LOCATION OF THE OFFSET JOINT THAT PREVENTS CAMERA TO PASS THROUGH.

4. CONTRACTOR SHALL CONFORM TO SPECIAL PROVISIONS.

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 Knoxville, TN 865-548-1500
 Spartanburg, SC 864-574-4775
 Charleston, SC 843-974-5650
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 Kennesaw, GA 770-427-3590

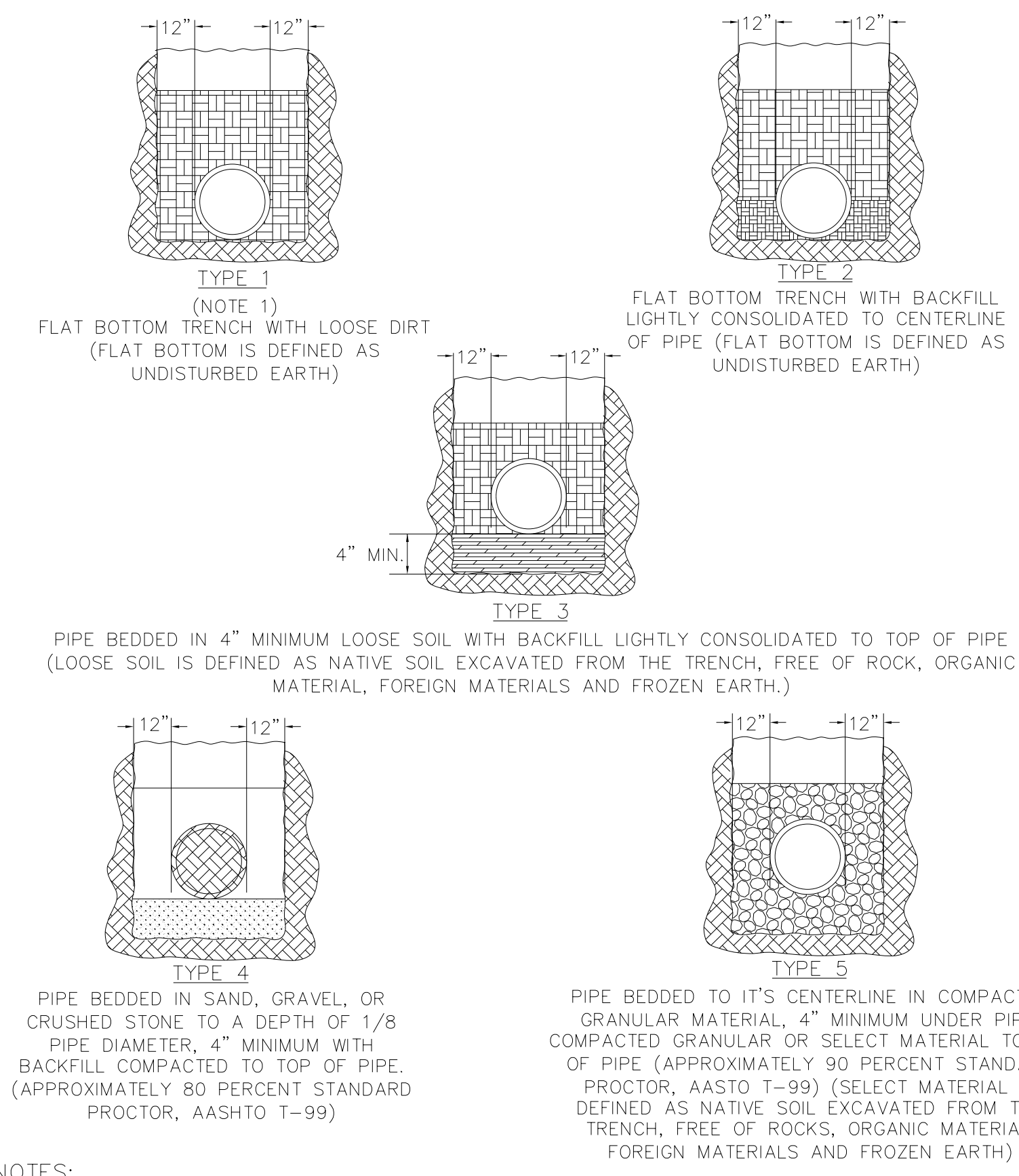
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6-6-23

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JACKSON COUNTY

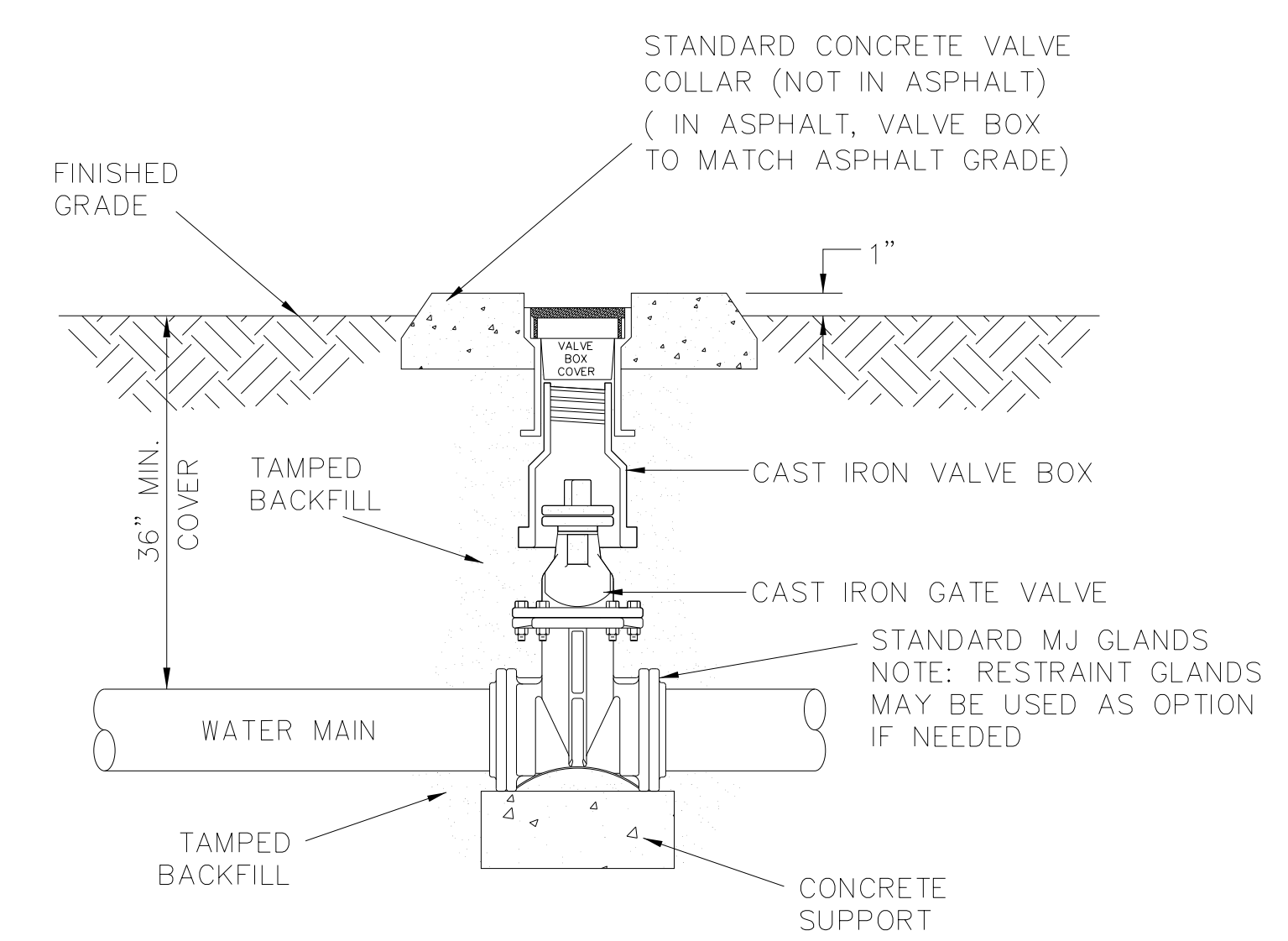
PROJECT REFERENCE NO. 17BP.14.R.212	SHEET NO. UC-3A
DESIGNED BY: DRD	
DRAWN BY: DRF	
CHECKED BY: DWH	
APPROVED BY: RMS	
REVISED:	6/6/2023
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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- NOTES:
- FOR NORMAL PIPE SIZES 14 INCH AND LARGER, CONSIDERATION SHOULD BE GIVEN TO THE USE OF LAYING CONDITIONS OTHER THAN TYPE 1.
 - CONSIDERATION OF THE PIPE-ZONE EMBEDMENT CONDITIONS INCLUDED IN THIS FIGURE MAY BE INFLUENCED BY FACTORS OTHER THAN PIPE STRENGTH. FOR ADDITIONAL INFORMATION ON PIPE BEDDING AND BACKFILL, SEE ANSI/AWWA C600.

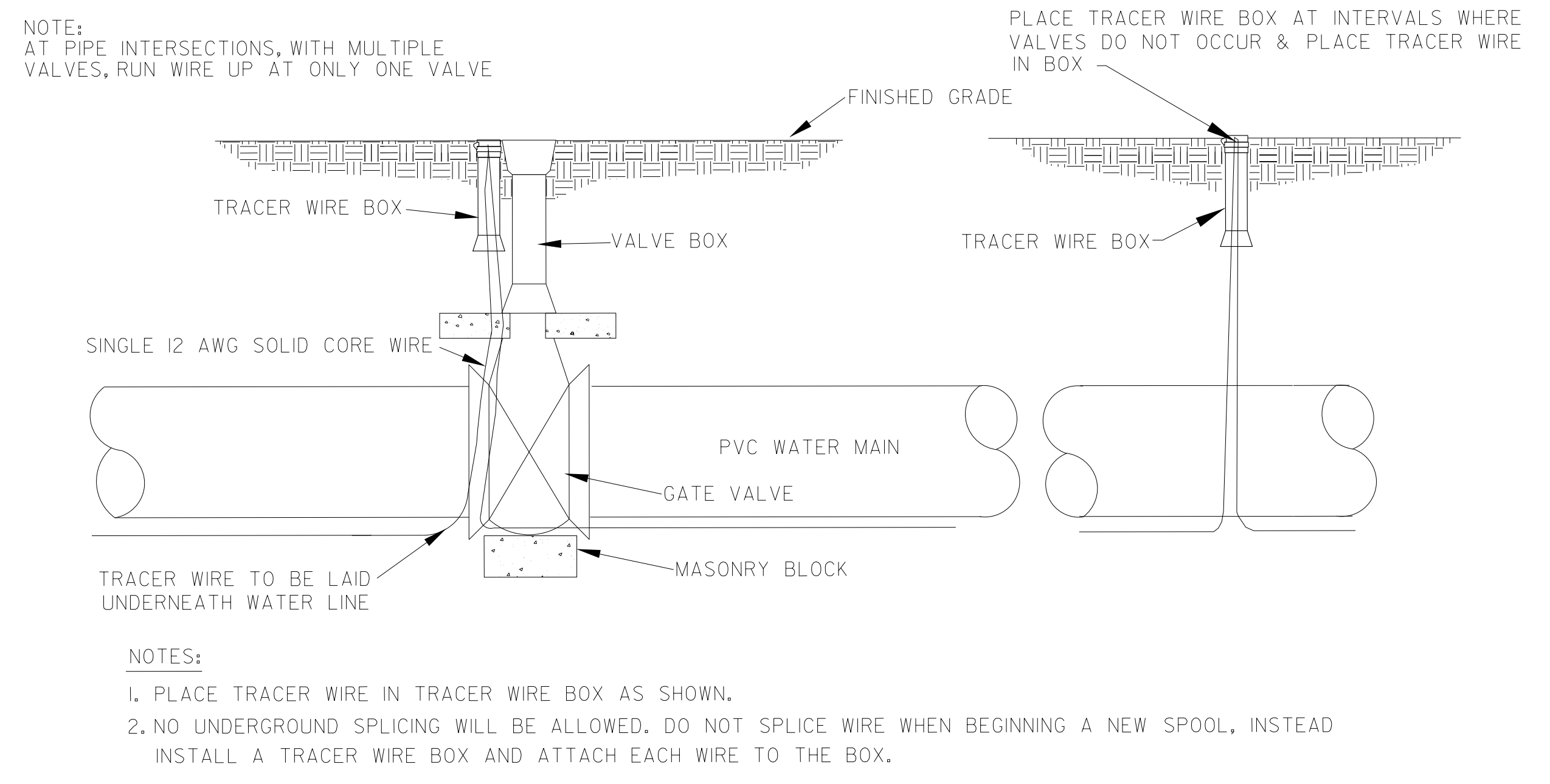
WATER MAIN EMBEDMENT DETAILS

NOT TO SCALE



INLINE VALVE DETAIL

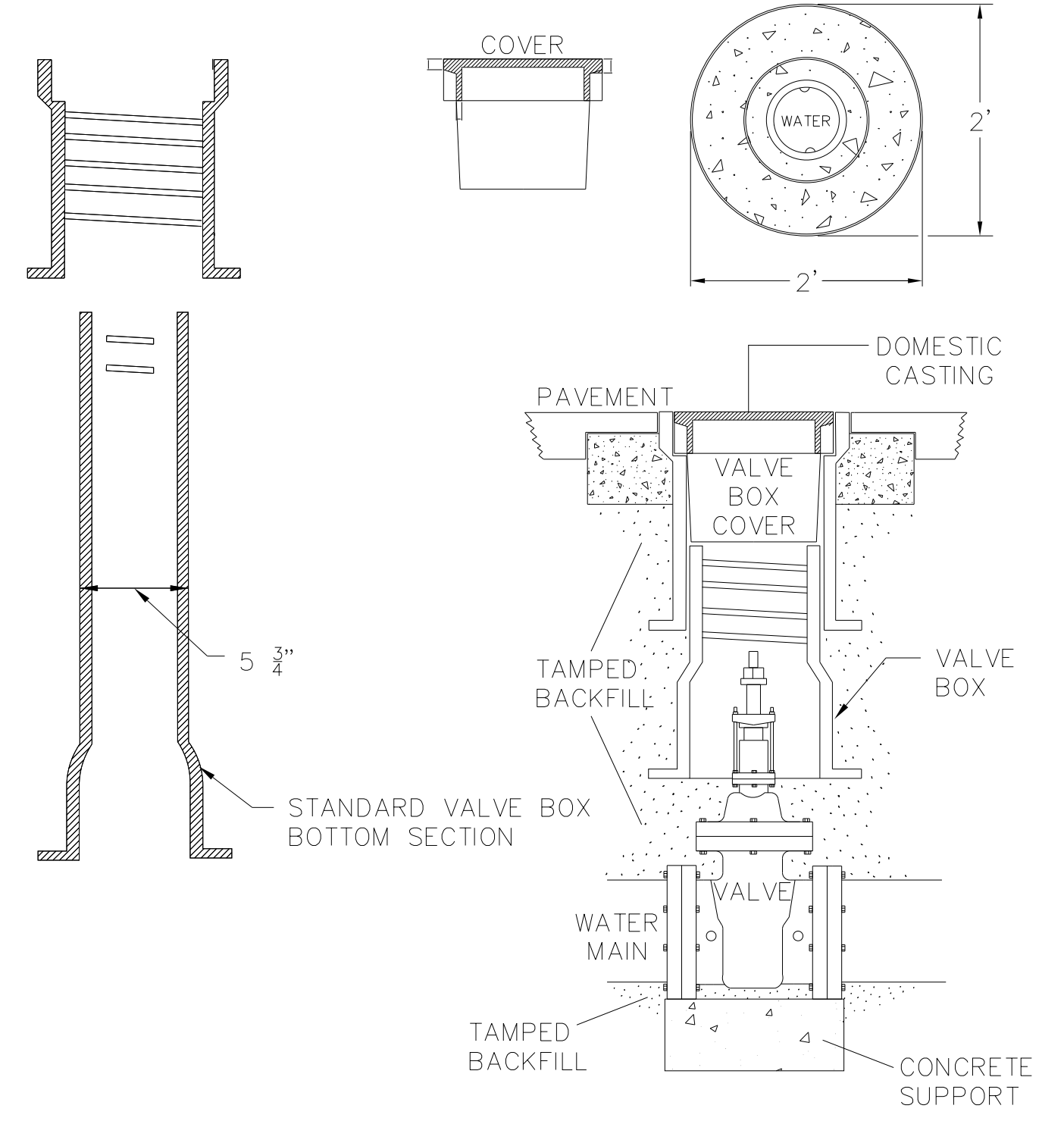
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TYPICAL TRACER WIRE INSTALLATION DETAIL

NOT TO SCALE

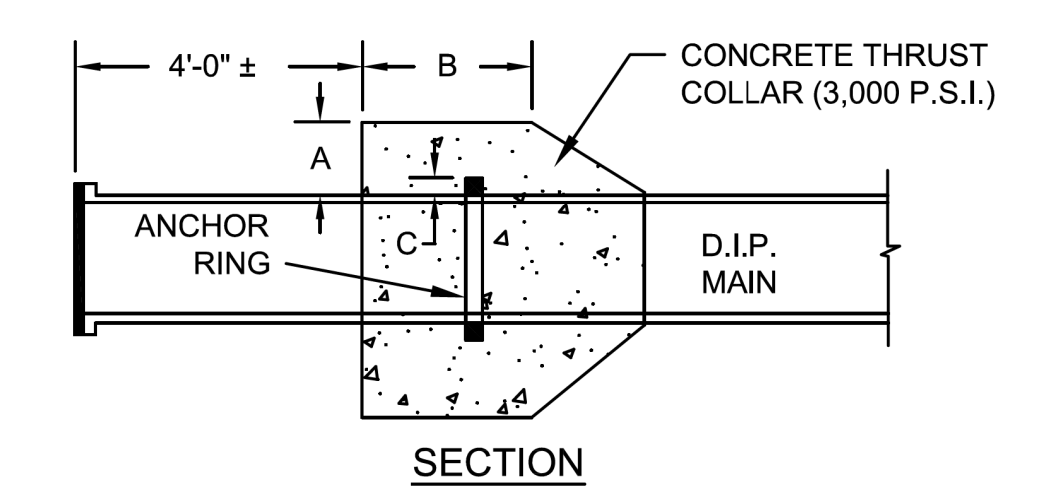
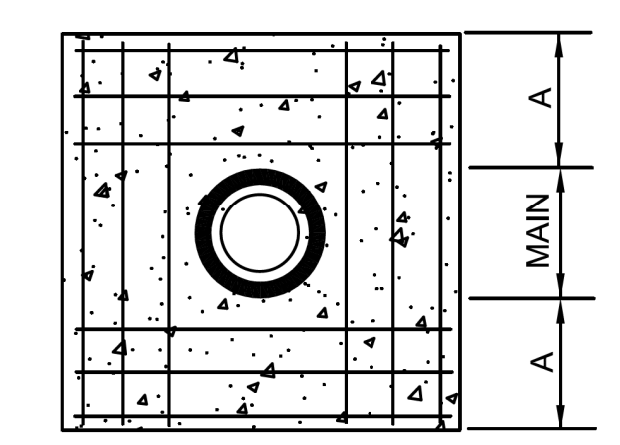
- NOTE: CONCRETE VALVE COLLAR REQUIRED ON ALL VALVES.
- APPROVED METHOD FOR EXTENSION OF VALVE BOX



NOTE:
VALVE BOX SHALL BE PER OWNER'S SPECIFICATIONS.

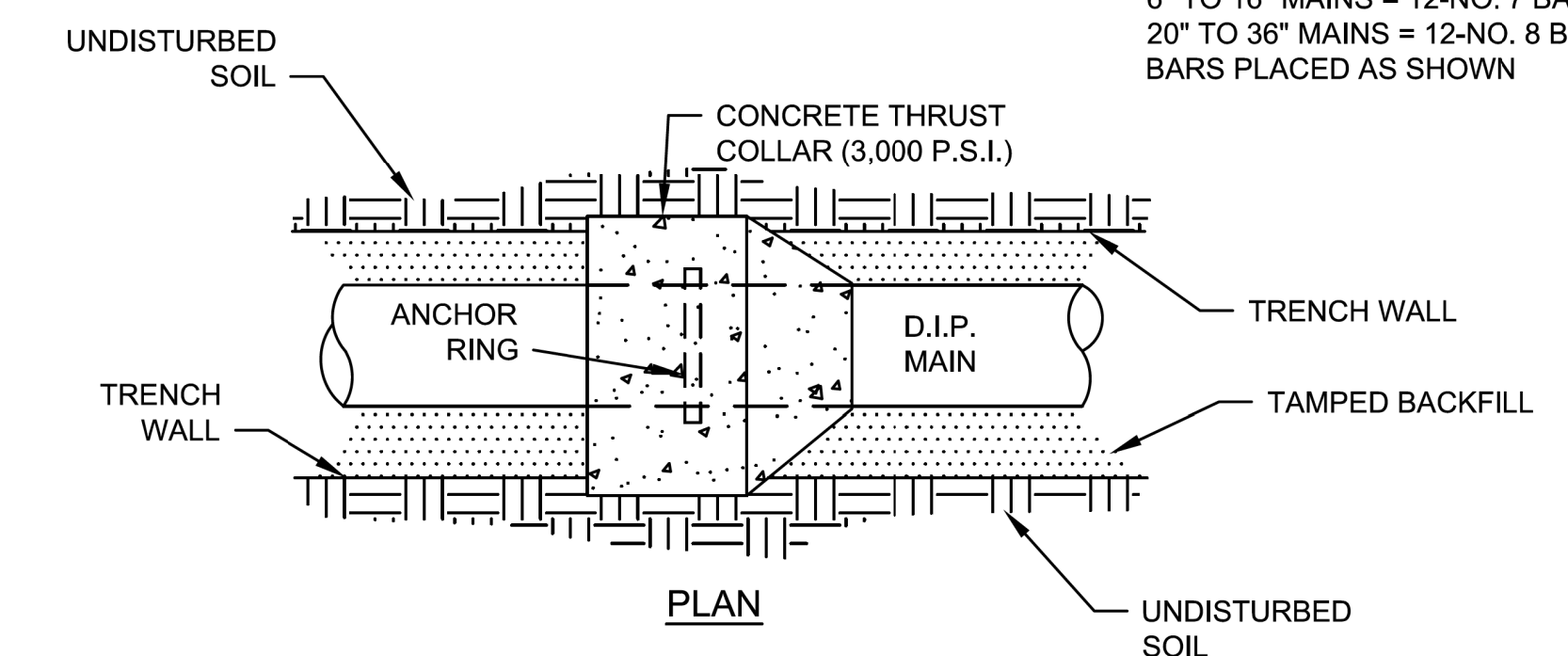
VALVE BOX INSTALLATION

NOT TO SCALE



REINFORCING

NOTE:
6" TO 16" MAINS = 12-NO. 7 BARS
20" TO 36" MAINS = 12-NO. 8 BARS
BARS PLACED AS SHOWN



SCHEDULE

PIPE DIAMETER	CONCRETE THRUST COLLAR		ANCHOR COLLAR	RINGS REQUIRED
	A	B		
6", 8", 12"	1'-0"	1'-0"	2"	ONE
16"	1'-4"	1'-0"	2"	ONE
20"	1'-4"	1'-0"	3"	ONE
24"	1'-4"	1'-0"	3"	TWO
30"	1'-4"	1'-2"	4"	TWO
36"	1'-4"	1'-4"	4"	TWO

THRUST COLLAR INSTALLATION

NOT TO SCALE

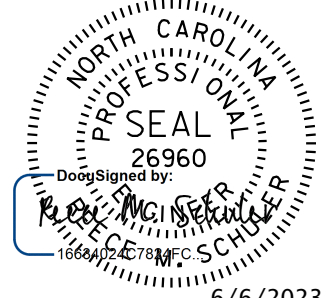
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Consulting Engineers

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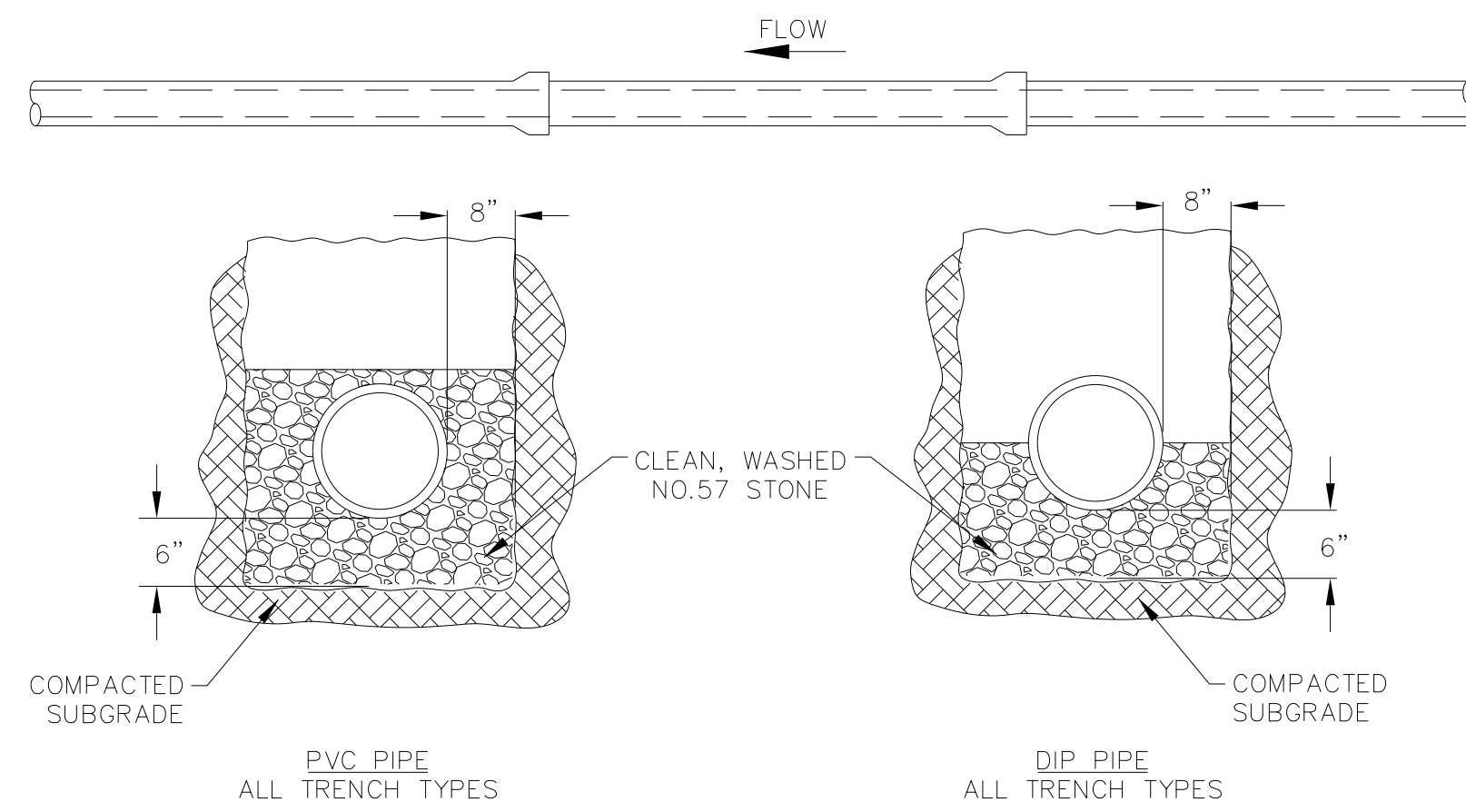
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- Knoxville, TN 865-546-5800
- Spartanburg, SC 864-574-4775
- Charleston, SC 843-974-5650
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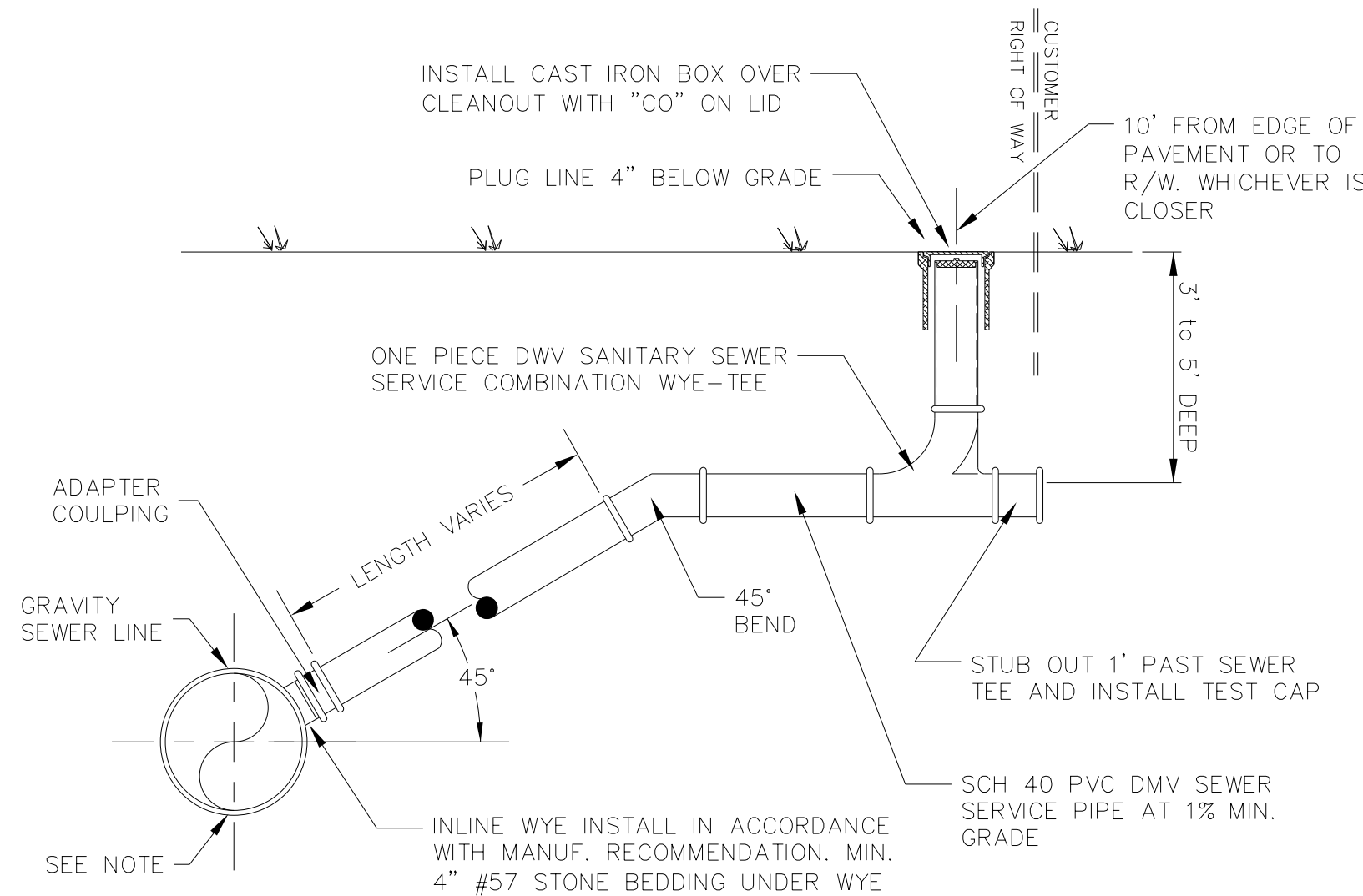
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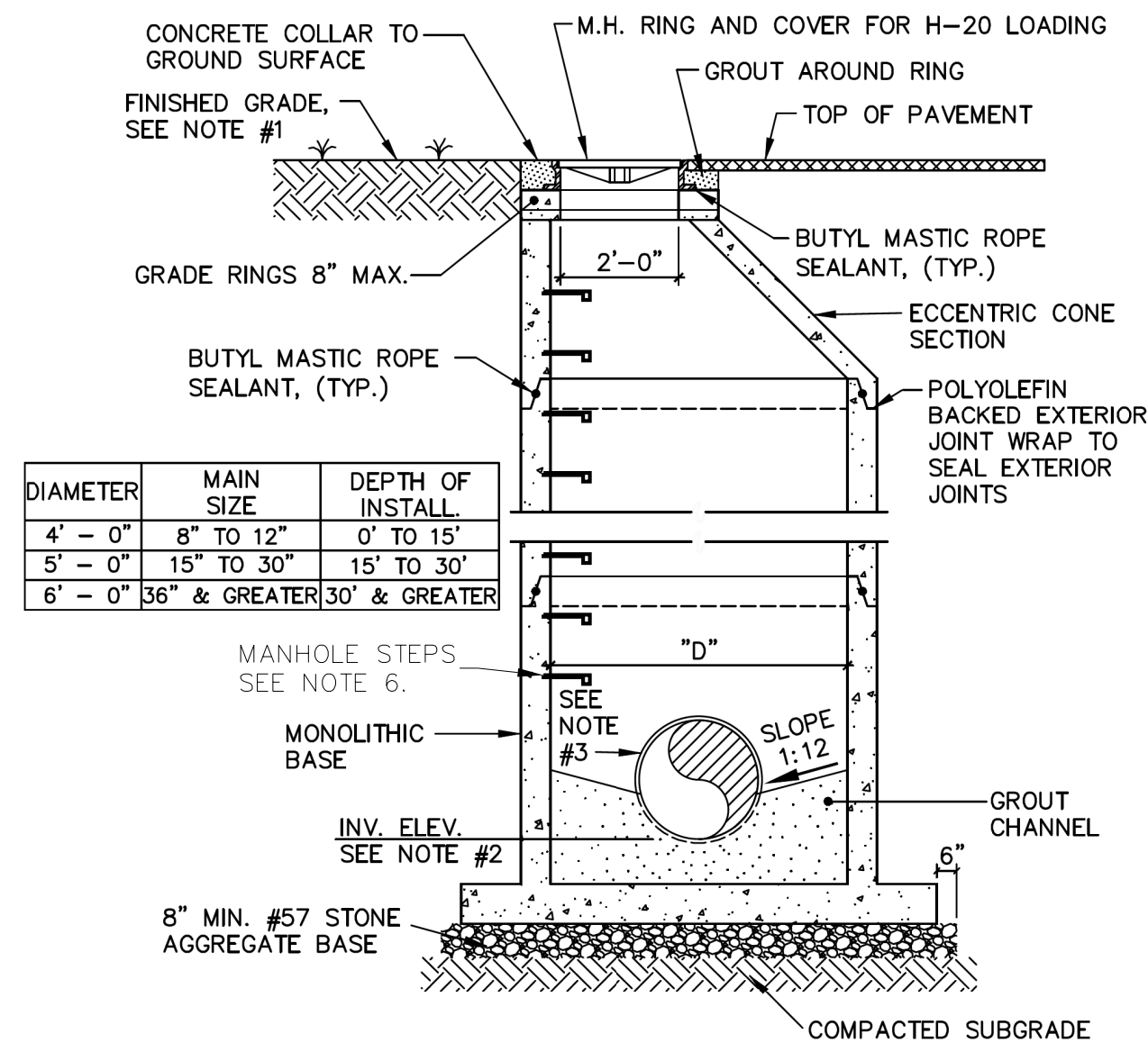


GRAVITY SEWER EMBEDMENT DETAIL
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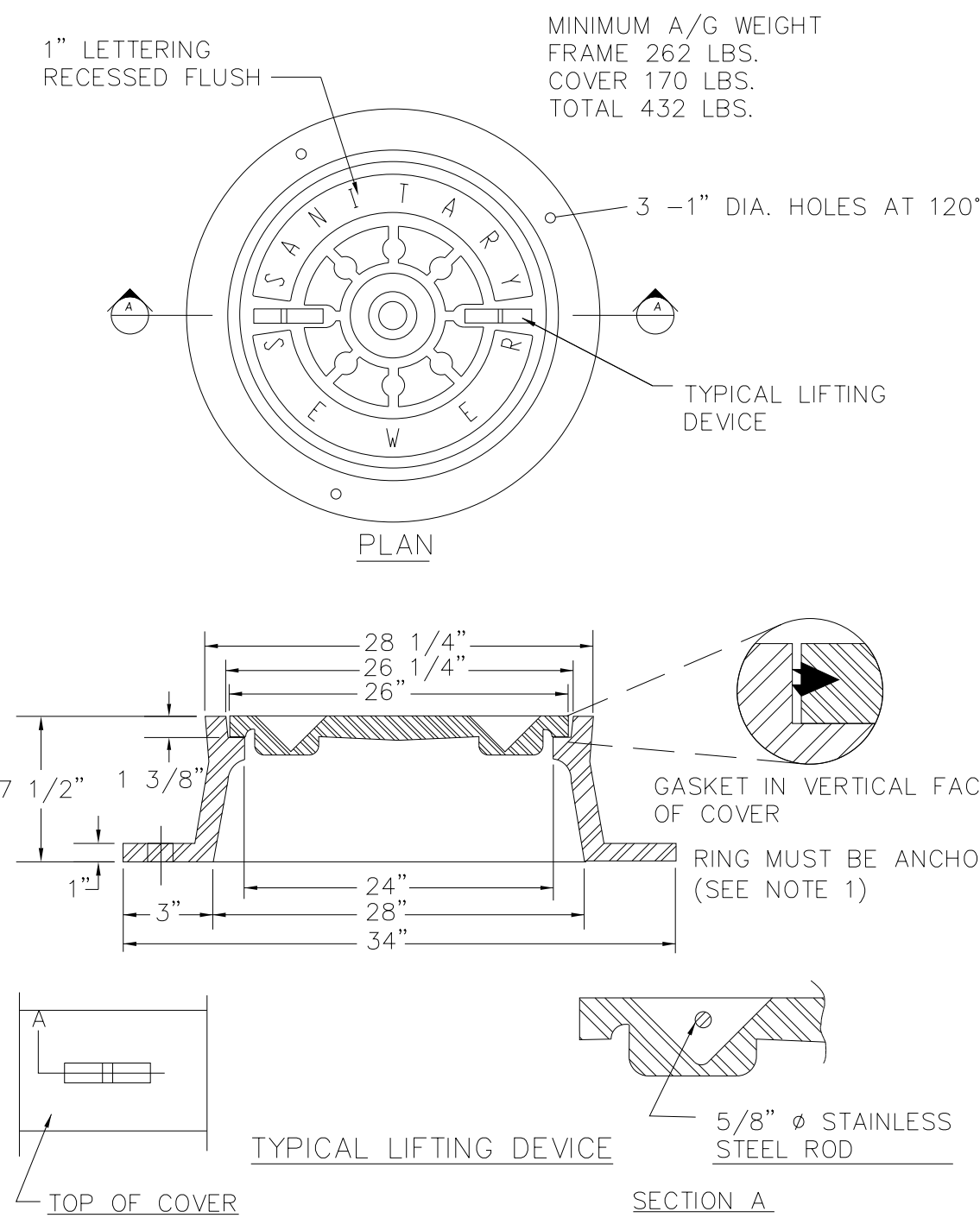
NOTE:
 1. REFER TO SPECIFICATIONS FOR BEDDING, BACKFILLING AND COMPACTION REQUIREMENTS.

TYPICAL SANITARY SEWER LATERAL CONNECTION
 NOT TO SCALE



NOTES:
 1. THE DISTANCE FROM THE TOP OF M.H. RING AND COVER MAY VARY WIDELY. SEE GRADING PLAN, AND/OR MANHOLE SCHEDULE.
 2. INVERT ELEV. SHOWN ON THE PLANS OR MANHOLE SCHEDULE ARE AT THE INLET AND OUTLET OF MANHOLE UNLESS OTHERWISE NOTED.
 3. CARRIER PIPE TO MANHOLE CONNECTIONS SHALL BE RUBBER SLEEVE WITH DUAL S.S. BANDS.
 4. ALL MANHOLES ARE TO BE EXTENDED BASE.
 5. ALL INTERIOR JOINTS AND LIFTING POINTS SHALL BE SEALED WITH GROUT.
 6. MANHOLE STEPS SHALL BE M.A. IND. PS-1-PF REINFORCED PLASTIC STEPS OR APPROVED EQUAL.

STANDARD PRECAST SANITARY SEWER MANHOLE (ECCENTRIC)
 NOT TO SCALE



NOTES:
 1. ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST.
 2. FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS.
 3. COVER SHALL WEIGH A MIN. OF 120 LBS.
 4. MANHOLES WITHIN PAVED SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL.
 5. CONSEAL SHALL BE USED BETWEEN RING AND CONE.

MANHOLE FRAME AND WATERTIGHT COVER
 NOT TO SCALE

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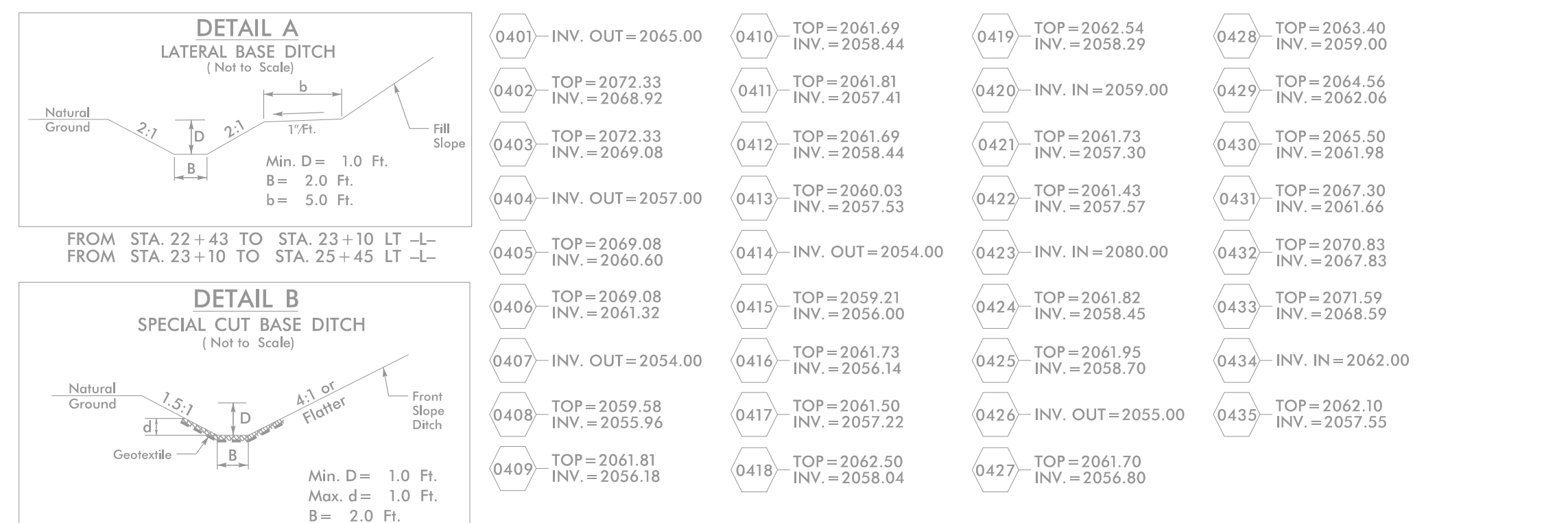
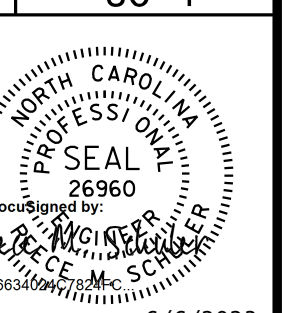
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6-6-23

DESIGNED BY: DRD
DRAWN BY: DRF
CHECKED BY: DWH
APPROVED BY: RMS
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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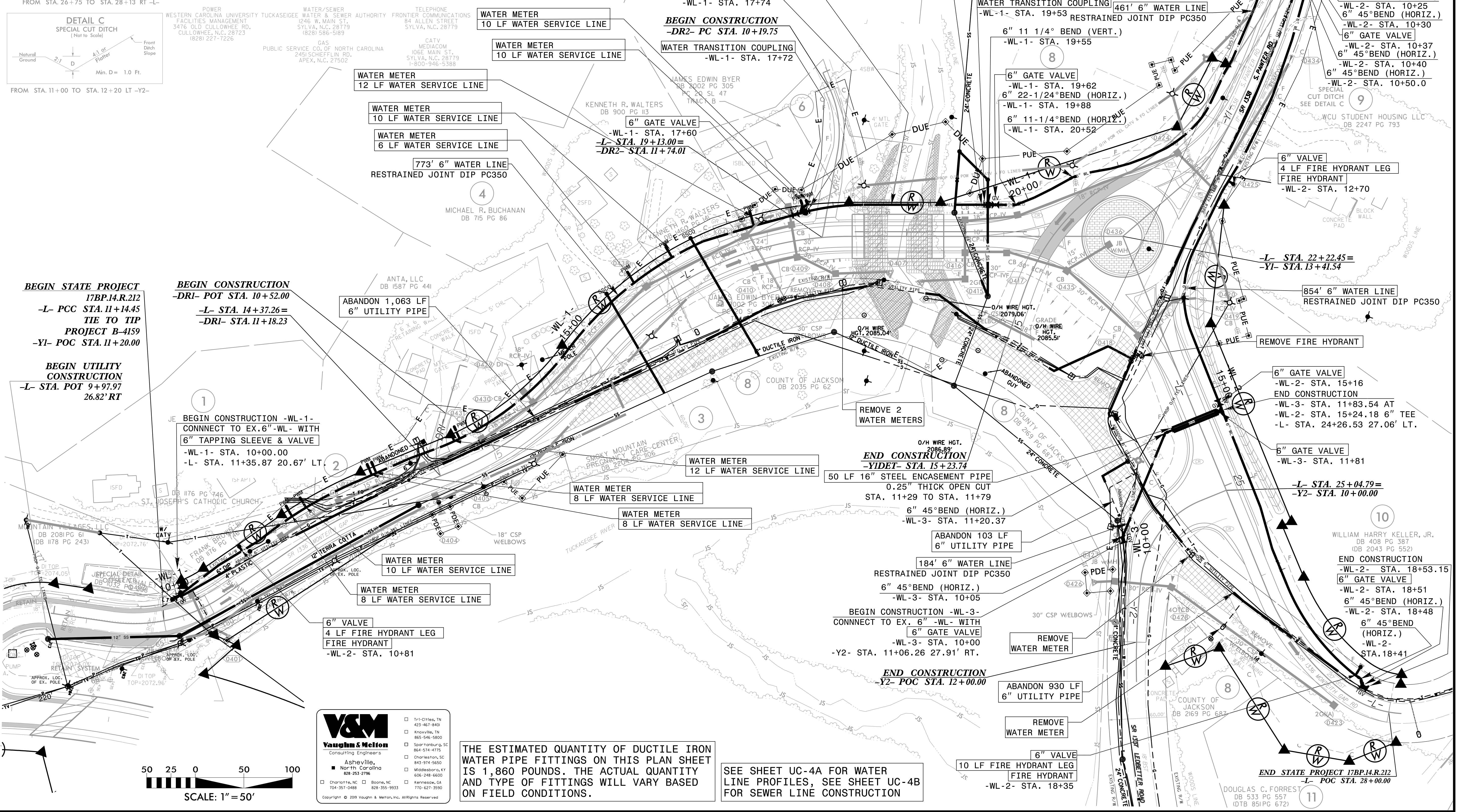
POWER: WESTERN CAROLINA UNIVERSITY FACILITIES MANAGEMENT, 3476 OLD CULLOWHEE RD., CULLOWHEE, N.C. 28723 (828) 227-7226

WATER/SEWER: TUCKAEEGE WATER & SEWER AUTHORITY, 1246 W. MAIN ST., SYLVIA, N.C. 28779 (828) 586-5189

TELEPHONE: FRONTIER COMMUNICATIONS, 84 ALLEN STREET, SYLVIA, N.C. 28779

CATV: MEDIACOM, 1065 MAIN ST., SYLVIA, N.C. 28779 1-800-946-5388

GAS: PUBLIC SERVICE CO. OF NORTH CAROLINA, 245 SCHEFFLIN RD., APEX, N.C. 27502



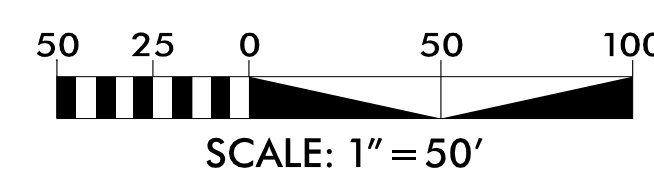
BEGIN STATE PROJECT
17BP.14.R.212
-L- PCC STA. 11+14.45
TIE TO TIP
PROJECT B-4159
-YI- POC STA. 11+20.00

BEGIN UTILITY CONSTRUCTION
-L- STA. POT 9+97.97
26.82' RT

BEGIN CONSTRUCTION
-DRI- POT STA. 10+52.00
-L- STA. 14+37.26=
-DRI- STA. 11+18.23

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,860 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-4A FOR WATER LINE PROFILES, SEE SHEET UC-4B FOR SEWER LINE CONSTRUCTION



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Consulting Engineers
Asheville, North Carolina
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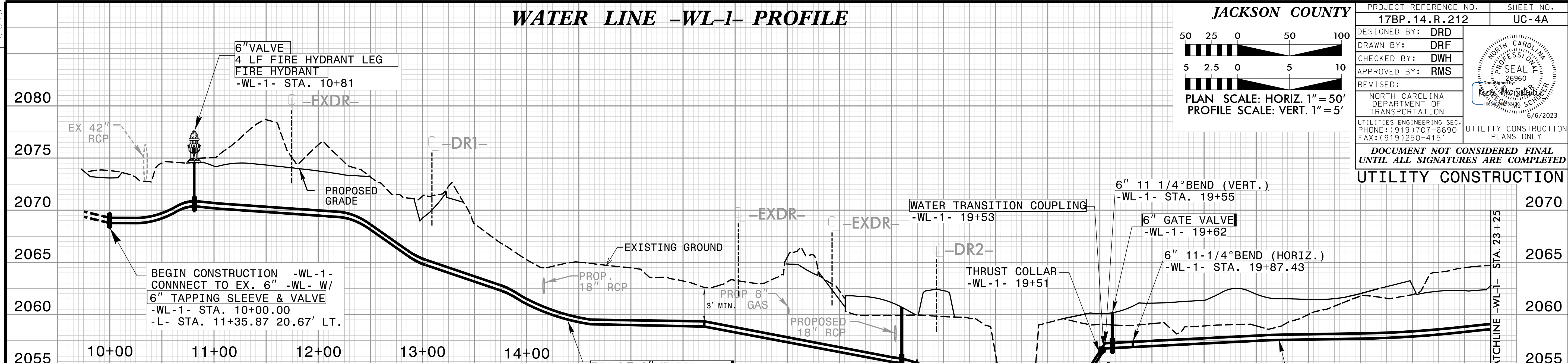
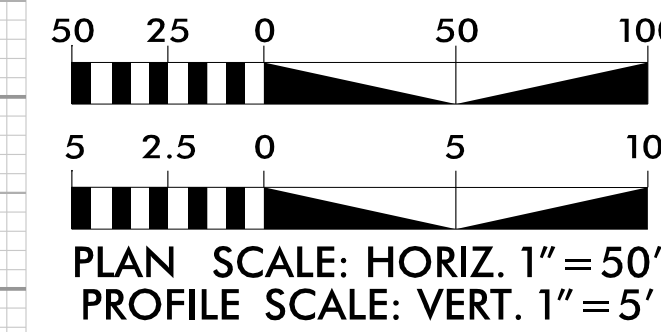
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6-16-23

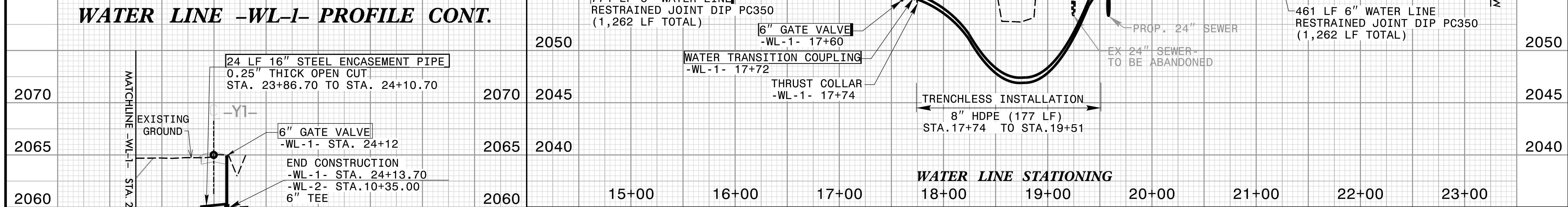
WATER LINE -WL-1- PROFILE

JACKSON COUNTY

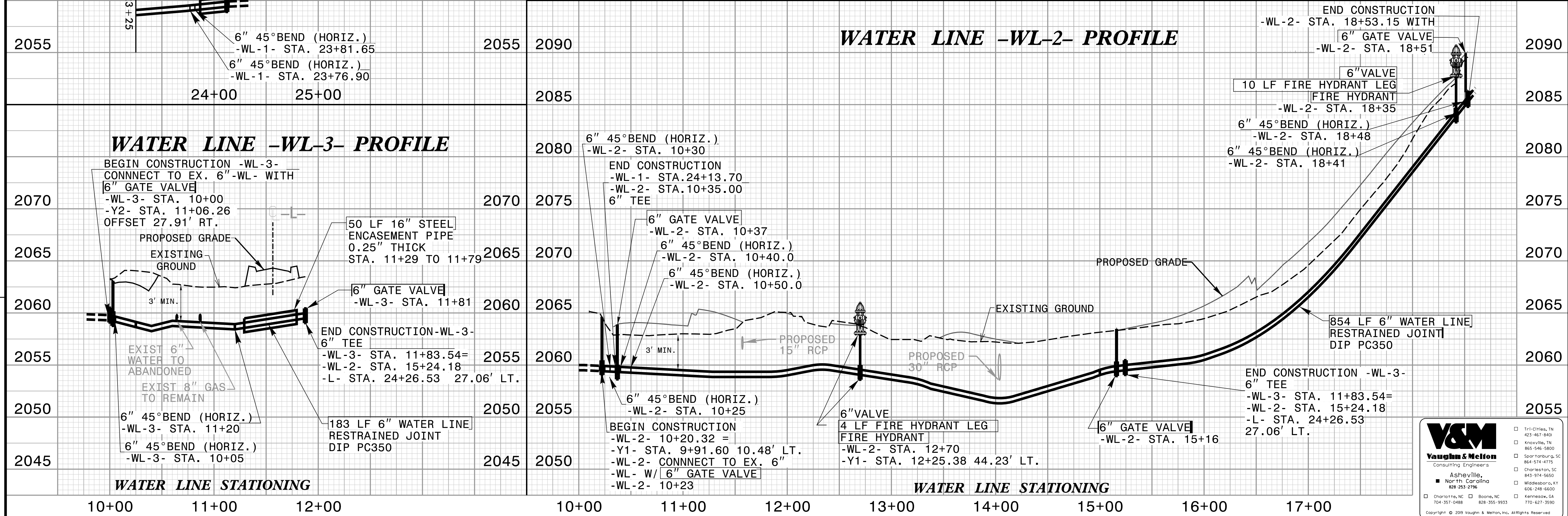
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 1250-4151	
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WATER LINE -WL-1- PROFILE CONT.



WATER LINE -WL-2- PROFILE



WATER LINE STATIONING

WATER LINE STATIONING

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DESIGNED BY: DRD
 DRAWN BY: DRF
 CHECKED BY: DWH
 APPROVED BY: RMS

REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

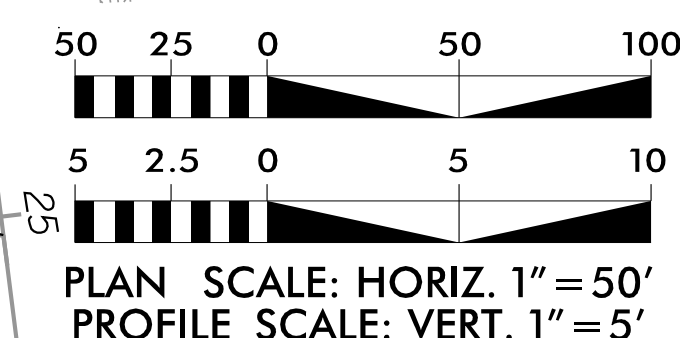
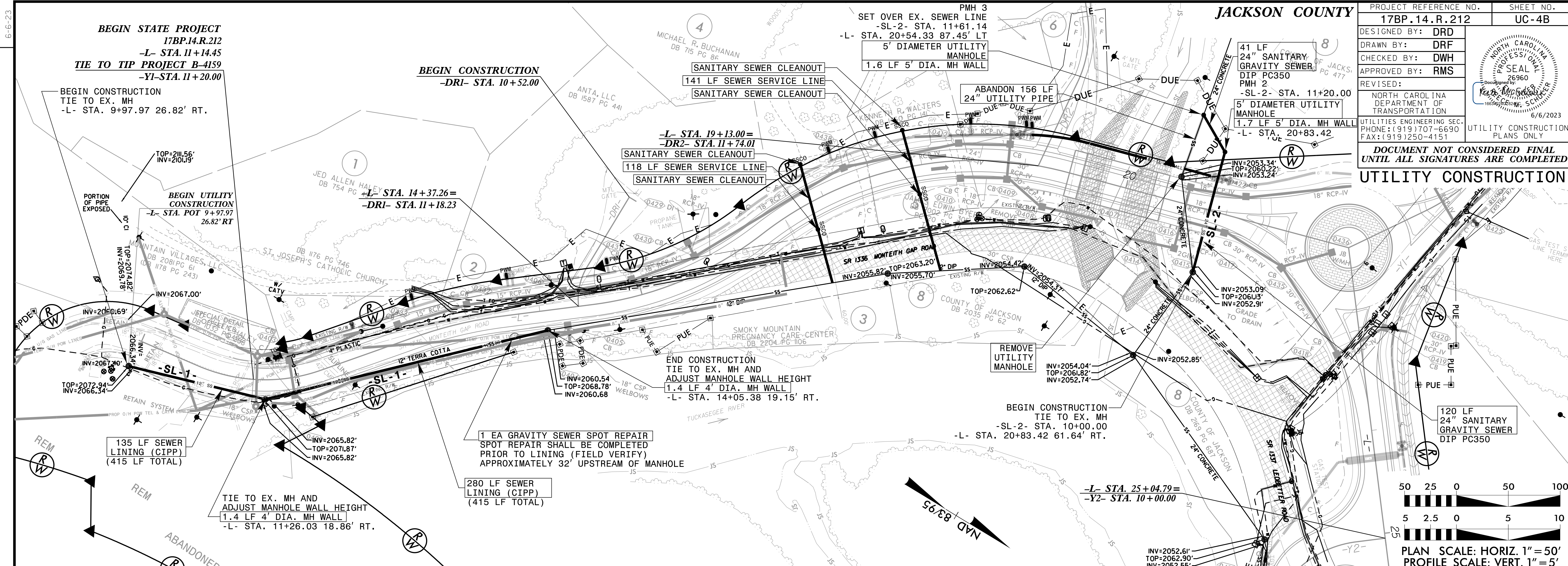
UTILITIES ENGINEERING SEC.
 PHONE: (919) 707-6690
 FAX: (919) 250-4151

UTILITY CONSTRUCTION PLANS ONLY

6/6/2023

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UTILITY CONSTRUCTION

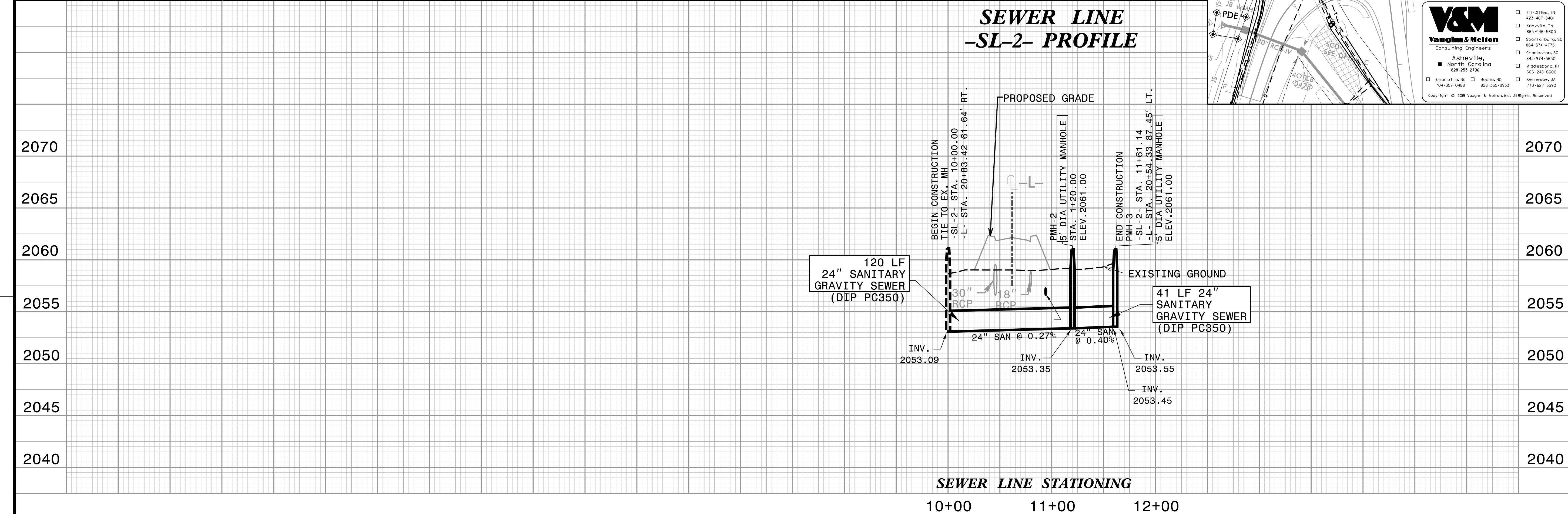


V&M
 Vaughn & Melton
 Consulting Engineers

Asheville, North Carolina
 404-357-0488 828-355-9933

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