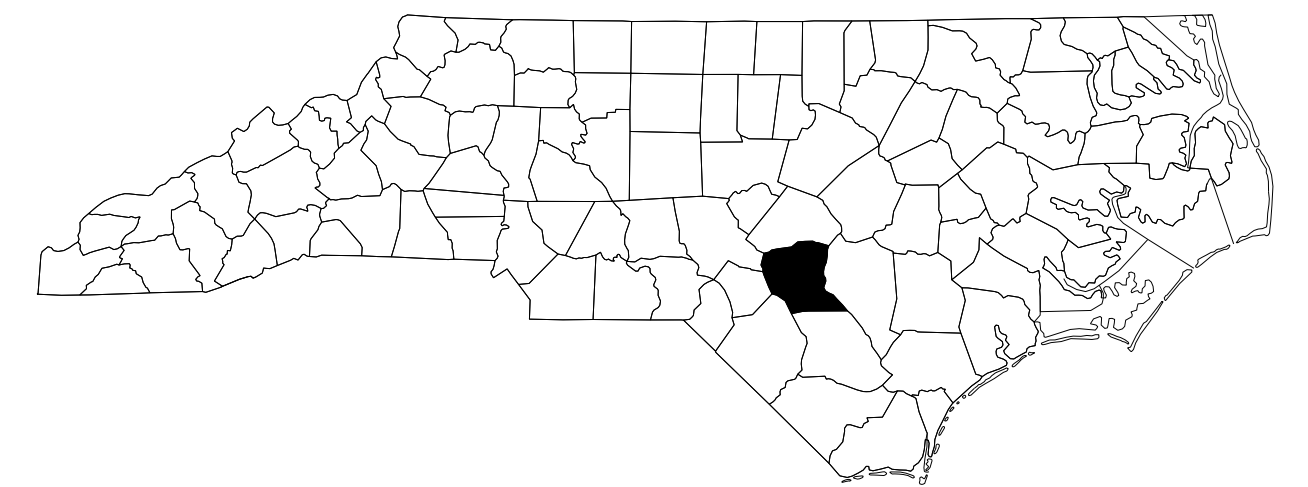


T.I.P. NO.	SHEET NO.
U-4709	UC-1

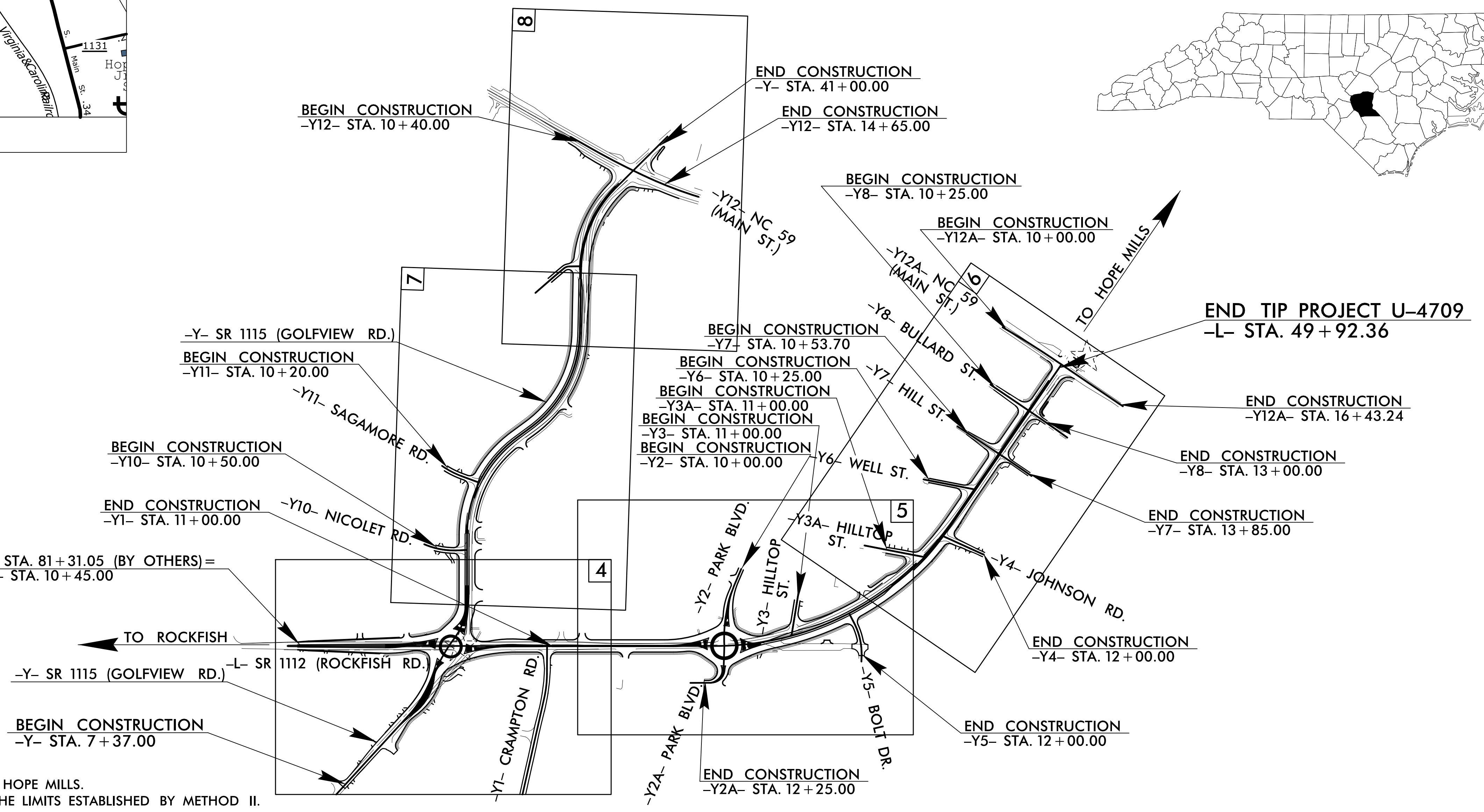
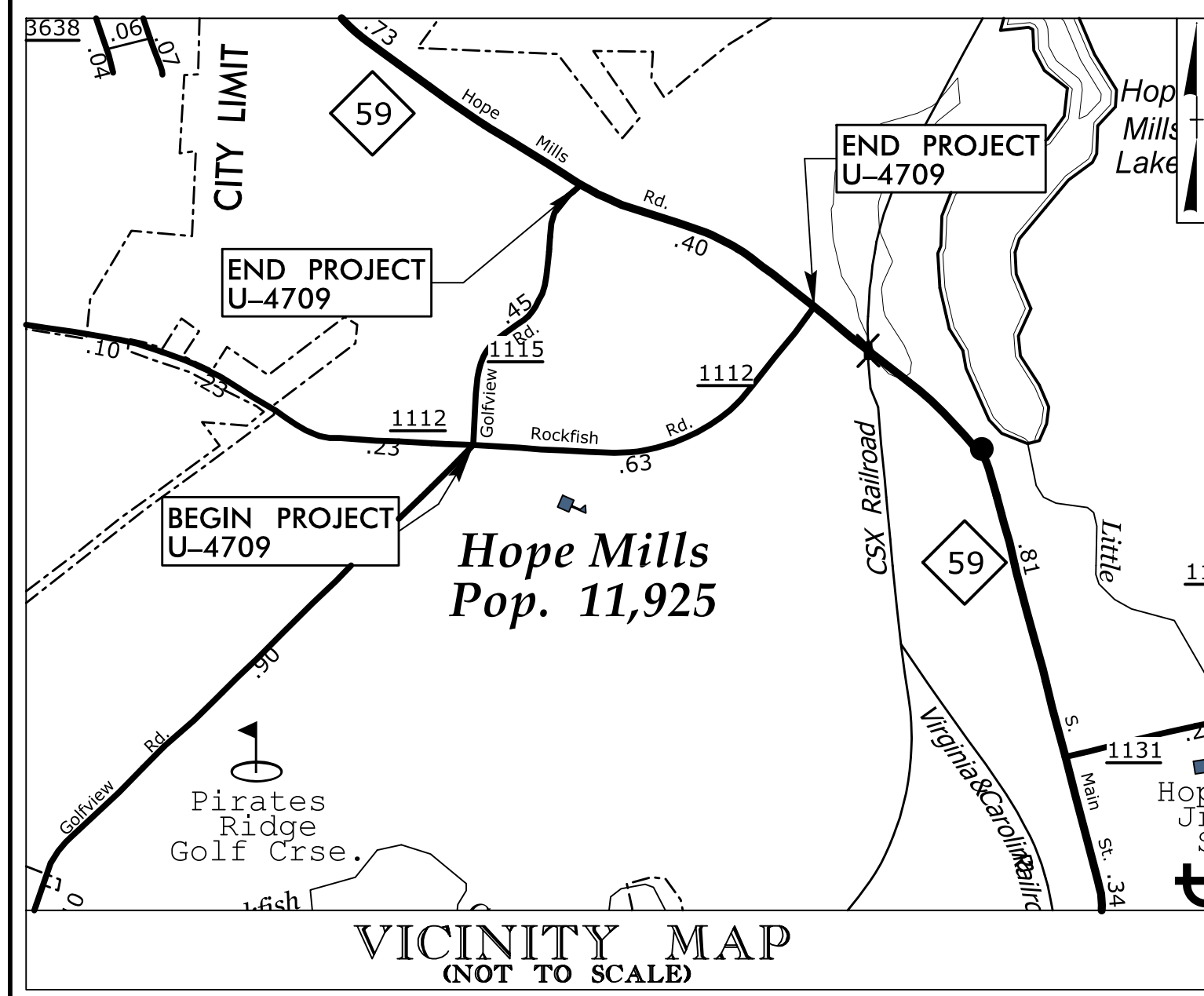
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY

LOCATION: SR 1112 (ROCKFISH ROAD) FROM WEST OF SR 1115 (GOLFVIEW ROAD) TO NC 59 (MAIN STREET) AND SR 1115 (GOLFVIEW ROAD)
FROM SR 1112 (ROCKFISH ROAD) TO NC 59 (MAIN STREET)
TYPE OF WORK: WATER AND SEWER LINE RELOCATION



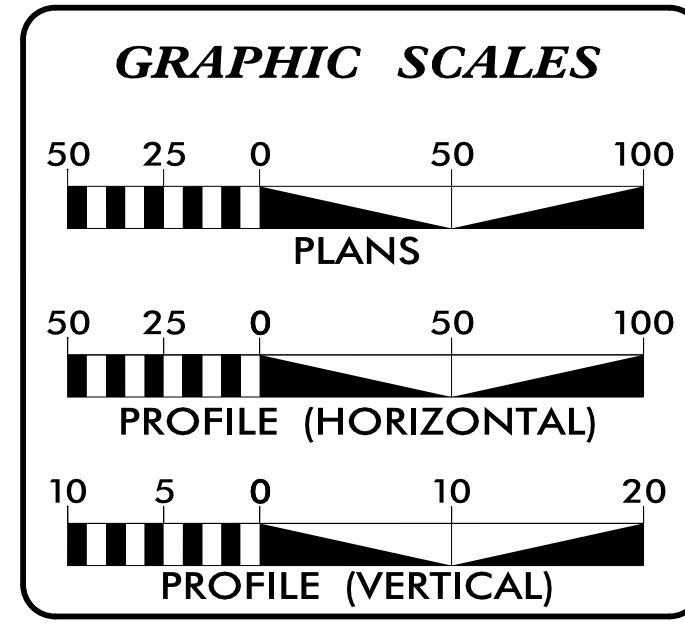
TIP PROJECT: U-4709



END TIP PROJECT U-6072B -L- STA. 81+31.05 (BY OTHERS) =
BEGIN TIP PROJECT U-4709 -L- STA. 10+45.00

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF HOPE MILLS.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

CONTRACT:



SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4 THRU UC-8A	UTILITY CONSTRUCTION SHEETS
UC-9 THRU UC-17	PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

(A) WATER
FAYETTEVILLE PUBLIC WORKS COMMISSION

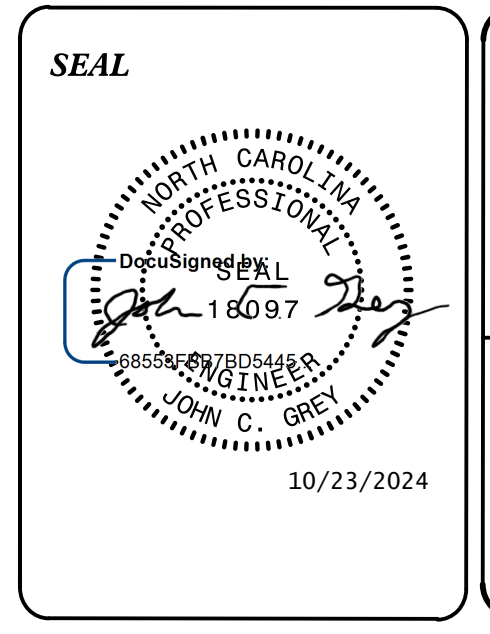
(B) SANITARY SEWER
FAYETTEVILLE PUBLIC WORKS COMMISSION

PREPARED IN THE OFFICE OF

Wooten

119 Brookstown Avenue, Suite 100 • Winston-Salem, NC 27101
(336) 722-5326 • thewootencompany.com
License Number: F-0115

JOHN C. GREY, P.E. CONSULTANT CONTACT #1



DIVISION OF HIGHWAYS UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

RICK HANDLIN UTILITIES ENGINEER
JOHN WALTERS UTILITIES COORDINATOR

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
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

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

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	
End of Information	
UTILITY TRAFFIC SIGNAL BOX	

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

RIGHT OF WAY, EASEMENT AND MISCELLANEOUS SYMBOLS

NEW RIGHT OF WAY	
NEW PUBLIC UTILITY EASEMENT	
NEW PERMANENT DRAINAGE EASEMENT	
NEW TEMPORARY CONSTRUCTION EASEMENT	
EXISTING RIGHT OF WAY	
EXISTING PERMANENT EASEMENT	
CUT AND FILL SLOPE STAKE LINES	

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

REV: 2/1/2012

5/14/24

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 2024.
2. THE EXISTING UTILITIES BELONG TO FAYETTEVILLE PUBLIC WORKS COMMISSION. CONTACT MISTY MANNING, 910-223-4736.
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 ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE FAYETTEVILLE PUBLIC WORKS COMMISSION 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 THE 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 THE 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.
10. PRIOR TO PLACEMENT OF PROPOSED WATERLINE, THE CONTRACTOR SHALL LOCATE ALL EXISTING WATER SERVICE LATERALS (DEPTH AND PIPE DIAMETER) AND NOTIFY THE RESIDENT ENGINEER IF THERE ARE COMPLICATIONS WITH CONNECTING TO THE PROPOSED WATERLINE. THE CONTRACTOR'S COST FOR ALL WORK ASSOCIATED WITH WATER SERVICES IS INCIDENTAL TO WATER.
11. THE CONTRACTOR SHALL REFER TO THE "UTILITIES BY OTHERS" PLANS FOR PROPOSED GAS, TELECOMMUNICATIONS AQUA AMERICA WATER, AND POWER UTILITY.


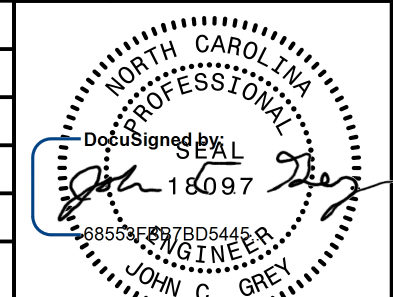
PROJECT SPECIFIC NOTES:

1. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS INCLUDING GPS LOCATION OF WATER LINE FITTINGS, VALVES, FIRE HYDRANTS AND METERS. CONTRACTOR SHALL ALSO PROVIDE AT MIN 250' INTERVALS THE DISTANCE BETWEEN WATER LINE AND FINAL EDGE OF PAVEMENT OR OTHER STRUCTURES THAT WILL REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE. THIS INFORMATION SHALL BE PROVIDED TO THE FAYETTEVILLE PUBLIC WORKS COMMISSION AND THE WOOTEN COMPANY.

UTILITY CONSTRUCTION NOTES:

1. ALL WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS.
2. ALL SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS.
3. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS.
4. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR ALL WATER OUTAGES.
6. CONSTRUCTION STAKING IS REQUIRED FOR ALL PWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, SIGNED AND SEALED BY A NC PLS, SHALL BE PROVIDED TO THE PWC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION FOR PWC WATER AND SEWER UTILITIES.
7. CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON PWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
8. ALL NEW WATER AND SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE TESTED AND/OR DISINFECTED IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS PRIOR TO PLACING INTO SERVICE.

9. CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYETTEVILLE PWC PROJECT COORDINATOR.
10. ALL DUCTILE IRON PIPE IN SANITARY SEWER SERVICE SHALL HAVE AN INTERIOR LINING OF PROTECTO 401 OR APPROVED EQUAL.
11. ALL NEW MANHOLES ARE TO BE VACUUM-TESTED IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS.
12. CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING WATER SERVICES THAT WILL NOT BE UTILIZED BY CUTTING THE SERVICE AT THE MAIN, PLUGGING THE CORPORATION, AND TURNING OFF THE CORPORATION. AT THE METER BOX, THE ABANDONED SERVICE IS TO BE CUT OR CRIMPED, AND BURIED A MINIMUM OF 3 FEET BELOW GRADE.
13. CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING SEWER SERVICES THAT WILL NOT BE UTILIZED BY UNCOVERING THE EXISTING LATERAL AT THE MAIN, CUT AND PLUG AT BOTH ENDS, REMOVE THE EXISTING CLEANOUT AND COMBINATION, AND PLUG THE TAP OR TEE AT THE MAIN. FOR LATERALS THAT CONNECT TO A MANHOLE AND ARE TO BE ABANDONED ("KILLED-OUT"), THE LATERAL SHALL BE REMOVED FROM THE MANHOLE AND THE REMAINING VOID IN THE MANHOLE SHALL BE FILLED WITH BLOCK AND MORTAR.
14. ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE IN ACCORDANCE WITH PWC REQUIREMENTS.

 <p>PREPARED IN THE OFFICE OF: 119 Brookstown Ave, Suite 100 • Winston-Salem, NC 27101 (336) 722-5326 • thewootencompany.com License Number: F-0115</p>	PROJECT REFERENCE NO.	SHEET NO.
	U-4709	UC-3
DESIGNED BY: JCG		<p>Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY</p>
DRAWN BY: CGL		
CHECKED BY: PLL		
APPROVED BY: JCG		
REVISED:		
<p>VERTICAL SCALE: 5' 0" 5' 10'</p> <p>HORIZONTAL SCALE: 25' 0" 25' 50'</p>		
<p>WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET</p>		
<p>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p> <p>UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151</p>		
UTILITY CONSTRUCTION		

5/14/2024

PROJECT TYPICAL DETAILS

PREPARED IN THE OFFICE OF:

Wooten

119 Brooktown Ave, Suite 100 • Winston-Salem, NC 27101
(336) 722-5326 • thewootencompany.com
License Number: F-0115

PROJECT REFERENCE NO. **U-4709** SHEET NO. **UC-3A**

DESIGNED BY: JCG
DRAWN BY: CGL
CHECKED BY: PLL
APPROVED BY: JCG

REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

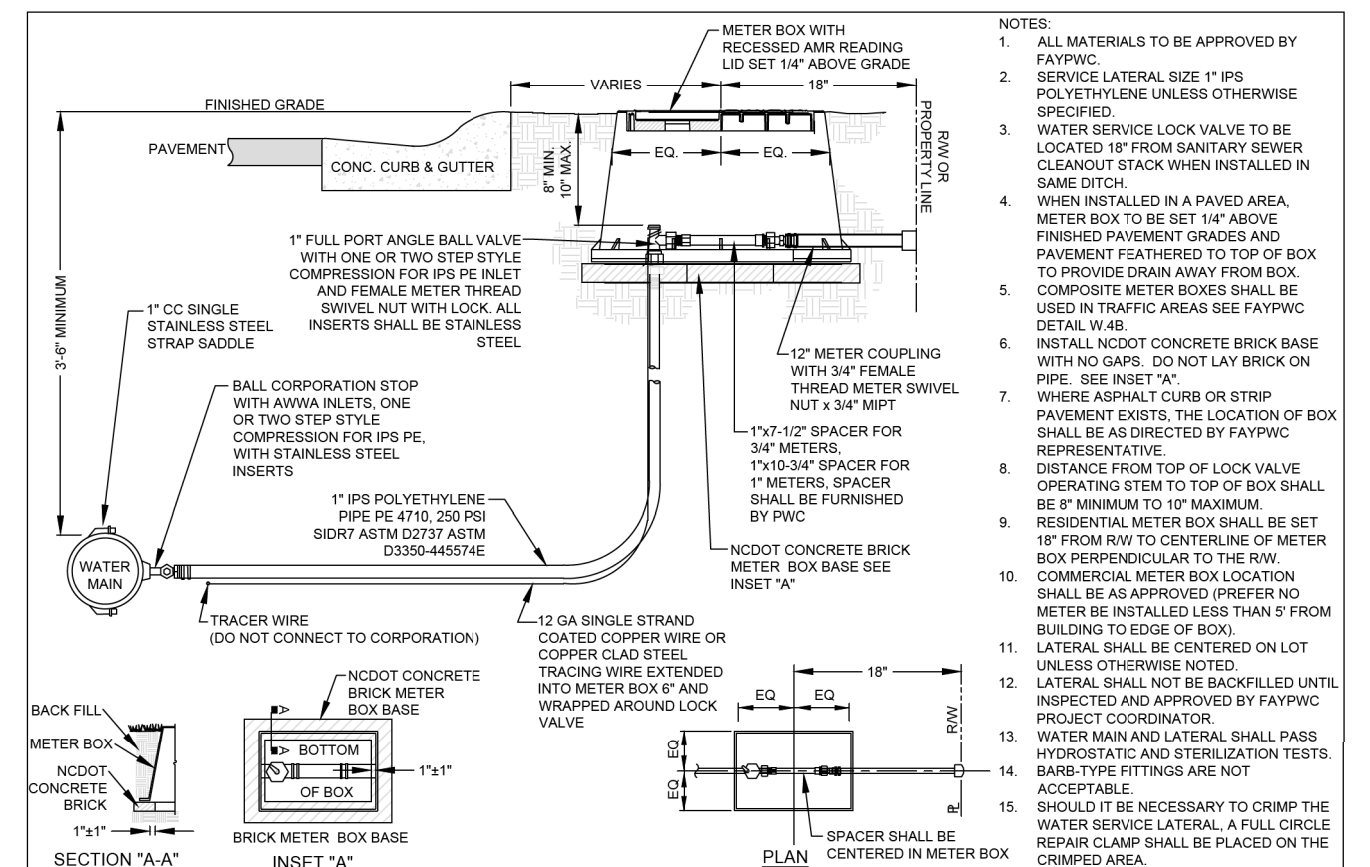
Document Not Considered Final Unless All Signatures Completed
UTILITY CONSTRUCTION PLANS ONLY

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 25'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

- FOR WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYWIC STANDARDS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR ALL WATER OUTAGES.
- CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYWIC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, BOMBS AND BEALED UP SHEET ON THE JOB SITE. CONSTRUCTION OF FAYWIC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE FAYWIC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION OF FAYWIC WATER UTILITIES.
- CONTRACTOR SHALL MAINTAIN A COPY OF THE BOMBS AND BEALED UP SHEET ON THE JOB SITE. CONSTRUCTION OF FAYWIC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES ON SITE, A BOMBS AND BEALED UP SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
- ALL NEW WATER AND SEWER MAINS, LATERALS AND APPURTENANCES SHALL BE TESTED AND/OR INSPECTED IN ACCORDANCE WITH FAYWIC STANDARDS PRIOR TO PLACING INTO SERVICE.
- CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYWIC PROJECT COORDINATOR.
- CONTRACTOR SHALL REPAIR ALL WATER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT IMMEDIATELY ALL WATER MAIN AND LATERAL BREAKS TO THE FAYWIC PROJECT COORDINATOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR IN ACCORDANCE WITH FAYWIC STANDARDS. CONTRACTOR SHALL NOT OPERATE FAYWIC WATER MAIN VALUES WITHOUT FAYWIC APPROVAL AND SHALL COORDINATE ALL VALVE CLOSINGS WITH FAYWIC.
- THE CONTRACTOR SHALL NOT USE HOUSE HOSE BIBBS OR ANY OTHER METHOD OF BLOCK OFF WHICH ALLOWS DOMESTIC WATER CONTAINING SEDIMENTS OR HIGH LEVELS OF CHLORINE TO PASS THIS RESIDENTS METER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM ALLOWING DIRTY WATER TO ENTER RESIDENTS PLUMBING SYSTEM, SUCH AS WATER METER, STAINLESS CLOSING, CLOSURE SCREENS, ETC.
- TRANSFER OF WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
 - MATERIAL TEST AND UTILITIES REM MAINS AND LATERALS SHALL BE INSTALLED BY HOUSE BOMB OFF ANY UNLESS OTHERWISE DIRECTED BY FAYWIC.
 - TRANSFER OF SERVICE TO THE NEW METER BOX AND TO THE WATER LATERAL TO EXISTING DOMESTIC SERVICE UTILIZING BRASS FITTINGS. SAME METER TRANSFER SHALL BE WITH ALL SAME ADDRESS NUMBER CUSTOMER. BLOCK OFF SERVICE AT HOSE BIBB ON HOUSE ONLY AFTER METER HAS BEEN TRANSFERRED.
 - AFTER ALL SERVICES ARE TRANSFERRED TO THE NEW SYSTEM, SHUT OFF VALVE ON EXISTING SYSTEM AND ABANDON EXISTING MAINS IN ACCORDANCE WITH FAYWIC REQUIREMENTS.
 - CONTRACTOR SHALL SUPPLY NEW METER BOXES AND DISPOSE OF EXISTING METER BOXES.
- CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING WATER SERVICES THAT WILL NOT BE USED BY CUTTING THE SERVICE AT THE MAIN, PLUGGING THE CONNECTION AND TURNING OFF THE CONNECTION AT THE METER BOX. THE ABANDONED SERVICE IS TO BE CUT OR COMPRESSED AND BURIED A MINIMUM OF 3 FEET BELOW GRADE.
- ALL EXISTING UTILITIES EXPOSED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE IN ACCORDANCE WITH FAYWIC REQUIREMENTS.
- ALL WORK ON FAYWIC WATER UTILITIES (MANS, LATERALS, ETC.) SHALL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE FAYWIC WATER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FAYWIC REQUIREMENTS.
- SEPARATION REQUIREMENTS:
 - LATERAL SEPARATION OF SEWERS AND WATER MAINS:** WATER MAINS SHALL BE LAD AT LEAST 18" FROM SEWER MAINS. SEWER MAINS SHALL BE LAD AT LEAST 18" FROM WATER MAINS. SEWER MAINS SHALL BE LAD AT LEAST 18" FROM WATER MAINS. SEWER MAINS SHALL BE LAD AT LEAST 18" FROM WATER MAINS. SEWER MAINS SHALL BE LAD AT LEAST 18" FROM WATER MAINS.
 - CROSSING WATER MAIN OVER A SEWER:** WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN, THE WATER MAIN SHALL BE LAD AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER MAIN LATERAL.
 - CROSSING WATER MAIN UNDER A SEWER:** WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN, THE WATER MAIN SHALL BE LAD AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER MAIN LATERAL.

- CROSSING STORM DRAINAGE LINES:** A MINIMUM OF 12 INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN A WATER LINE CROSSING OVER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IN ADDITION, THREE AND A HALF (3.5) FEET OF COVER MUST BE MAINTAINED OVER THE WATER MAIN OR IT SHALL BE DUCTILE IRON PIPE. IF DUCTILE IRON PIPE IS USED, THE WATER MAIN SHALL BE 2.5 FEET OF COVER BE MAINTAINED OVER THE WATER MAIN AND A MINIMUM OF 12 INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND THE STORM DRAINAGE LINE WHERE A WATER MAIN CROSSES UNDER A STORM DRAINAGE LINE. THE MINIMUM OF TWELVE (12) INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED AND THE WATER MAIN SHALL BE DUCTILE IRON FOR A DISTANCE OF 5 FEET ON EACH SIDE OF THE CROSSING.
- WATER OUTAGES:** THE CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING WITH THE FAYWIC PROJECT COORDINATOR AND PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO ANY PLANNED WATER OUTAGE. THE COORDINATION MEETING SHALL BE CONDUCTED PRIOR TO ANY NOTICES BEING ISSUED. ADDITIONALLY, THE CONTRACTOR SHALL LOCATE (VERTICALLY AND HORIZONTALLY) ANY UTILITIES WITHIN THE WORK AREA. IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS, THE LOCATIONS OF ALL UTILITIES WITHIN THE WORK AREA SHALL BE DETERMINED PRIOR TO THE COORDINATION MEETING. ANY CONFLICTS WITH THE PREVIOUS WORK AND THE EXISTING UTILITIES SHALL BE IDENTIFIED AND A PLAN FOR RESOLUTION MUST BE PRESENTED. THE CONTRACTOR HAS A GOOD UNDERSTANDING OF THE REQUIREMENTS RELATED TO THE PROPOSED OUTAGE. THAT THESE AND ANY OTHER UTILITIES THAT WILL PREVENT THE WORK FROM BEING COMPLETED. ALL EQUIPMENT IS IN GOOD WORKING ORDER. ALL EQUIPMENT IS FUNCTIONAL. ALL MATERIALS ARE ON SITE. ALL NECESSARY TOOLS ARE ON SITE. DISCUSS ANY NECESSARY CONTINGENCY PLANS, AND ANY OTHER ITEMS NECESSARY TO GUARANTEE THAT THE FAYETTEVILLE PUBLIC WORKS COMMISSION UNDERSTANDS THAT THE WORK CAN BE COMPLETED WITHIN THE GIVEN TIME PERIOD. SHOULD, FOR ANY REASON, THE FAYETTEVILLE PUBLIC WORKS COMMISSION DEEM THAT THE CONTRACTOR IS NOT PREPARED FOR THE PROPOSED OUTAGE, THE OUTAGE NOTIFICATIONS WILL NOT BE DISTRIBUTED AND THE OUTAGE SHALL BE DEFERRED A MINIMUM OF TWO (2) WEEKS. THE FAYETTEVILLE PUBLIC WORKS COMMISSION WILL PROVIDE WRITEN NOTIFICATION TO THE CONTRACTOR OF THIS DECISION. NO ADDITIONAL CONTRACT TIME WILL BE GRANTED FOR THIS DELAY. SHOULD THE CONTRACT TIME EXPIRE WITHIN THAT TWO (2) WEEK PERIOD, THE FAYETTEVILLE PUBLIC WORKS COMMISSION RESERVES THE RIGHT TO ASSESS UNLQUATED DAMAGES AS OUTLINED IN THESE CONTRACT DOCUMENTS.



WATER UTILITY NOTES		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
DWG. NO.	W.1	DWG. BY:	FAYWIC	1	01/01/18	ADDED NOTES 6, 8
DATE:	JULY 01, 2024	APPROVED BY:	M.M.M.	2	06/01/21	ADDED NOTES 1-7 AND RENUMBERED
				3	11/23	REVISED NOTES 10, 14

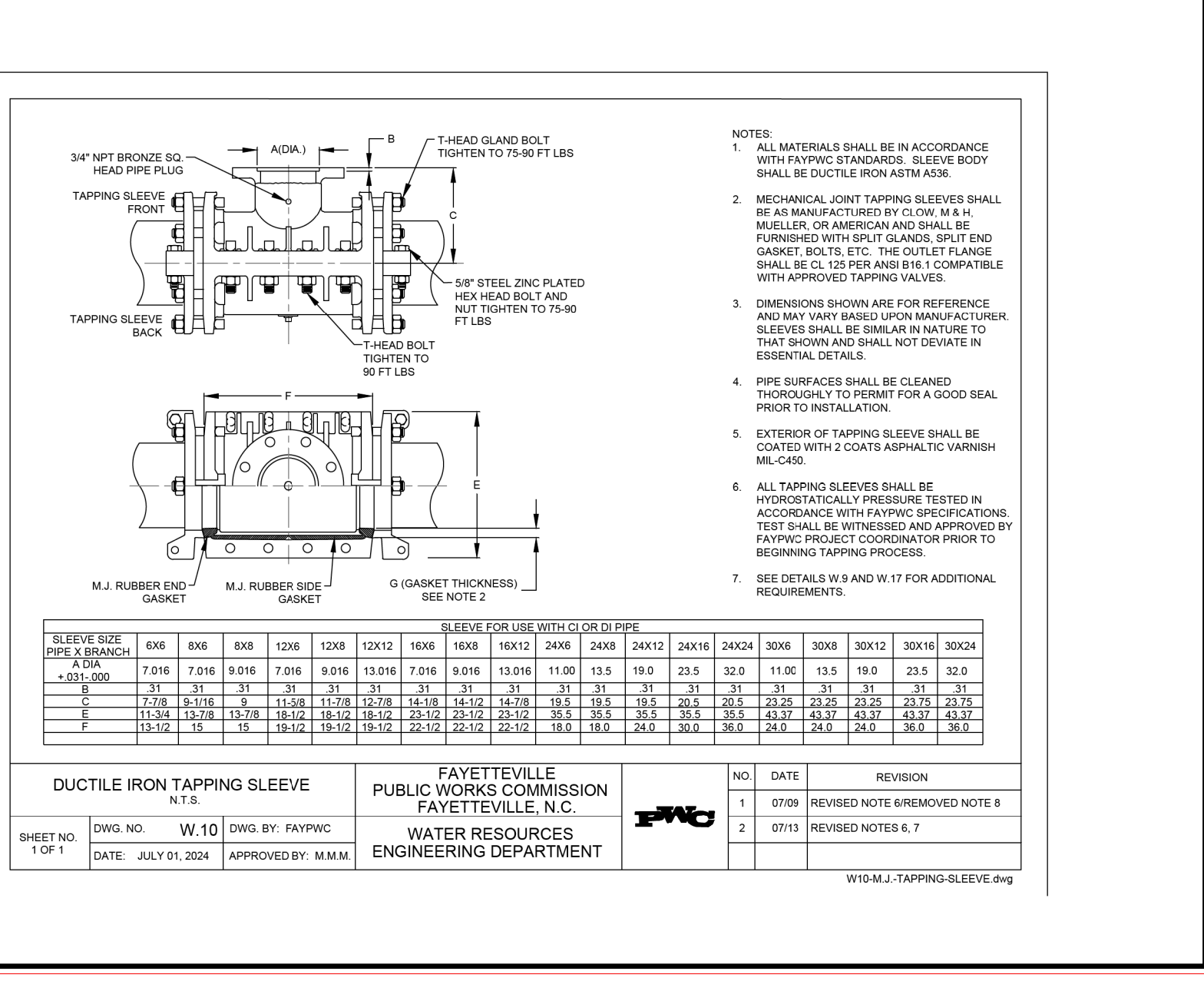
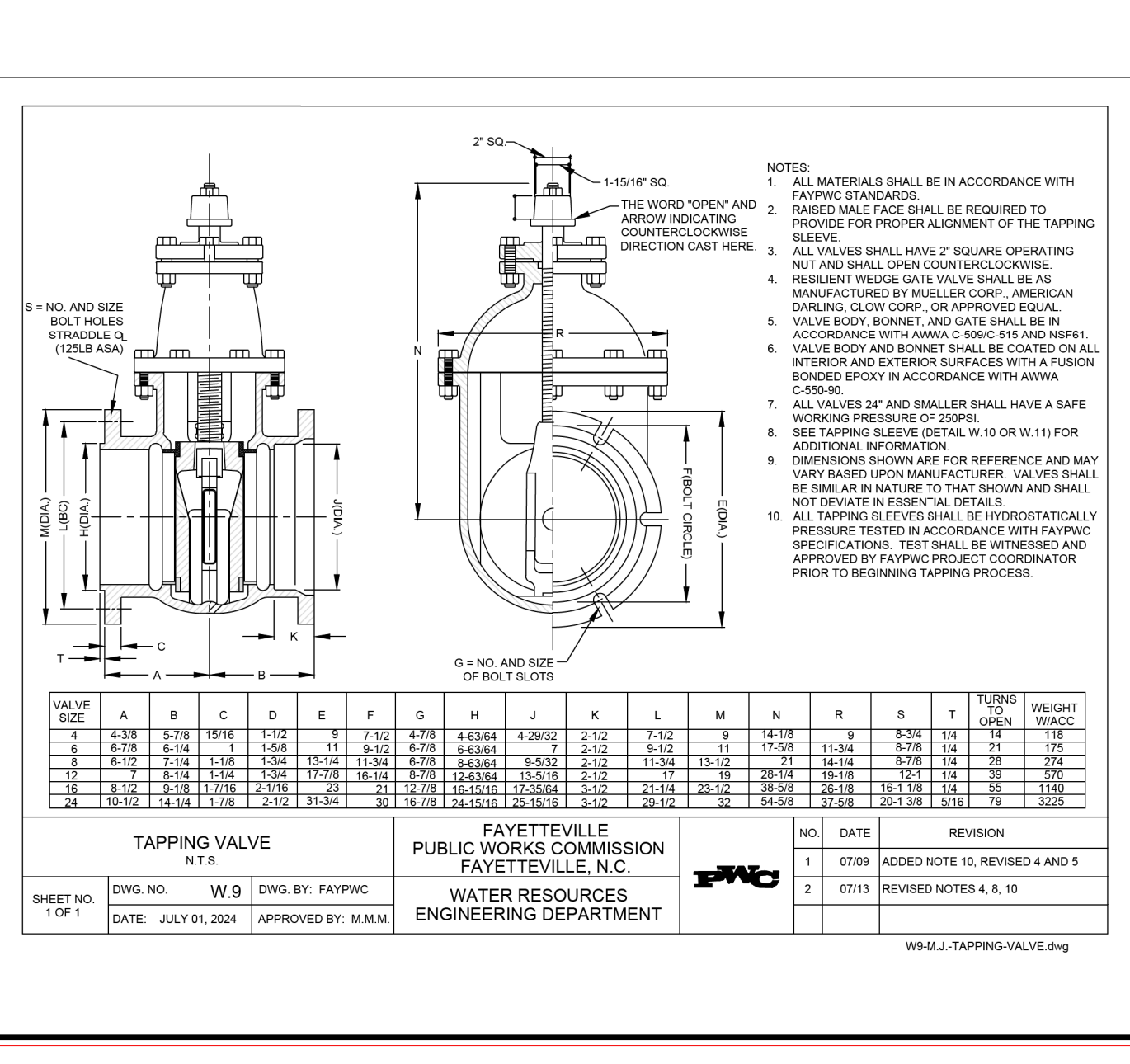
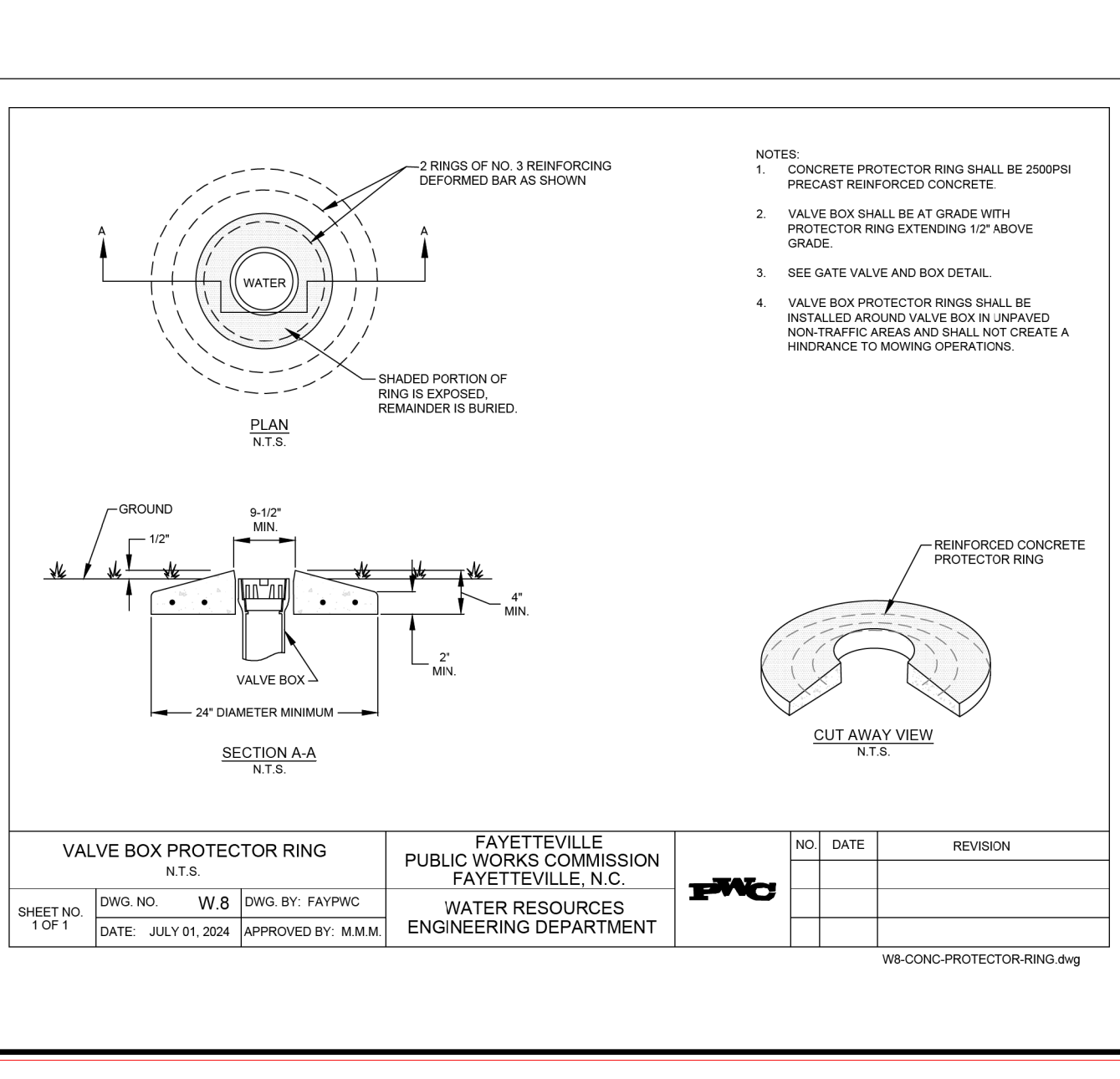
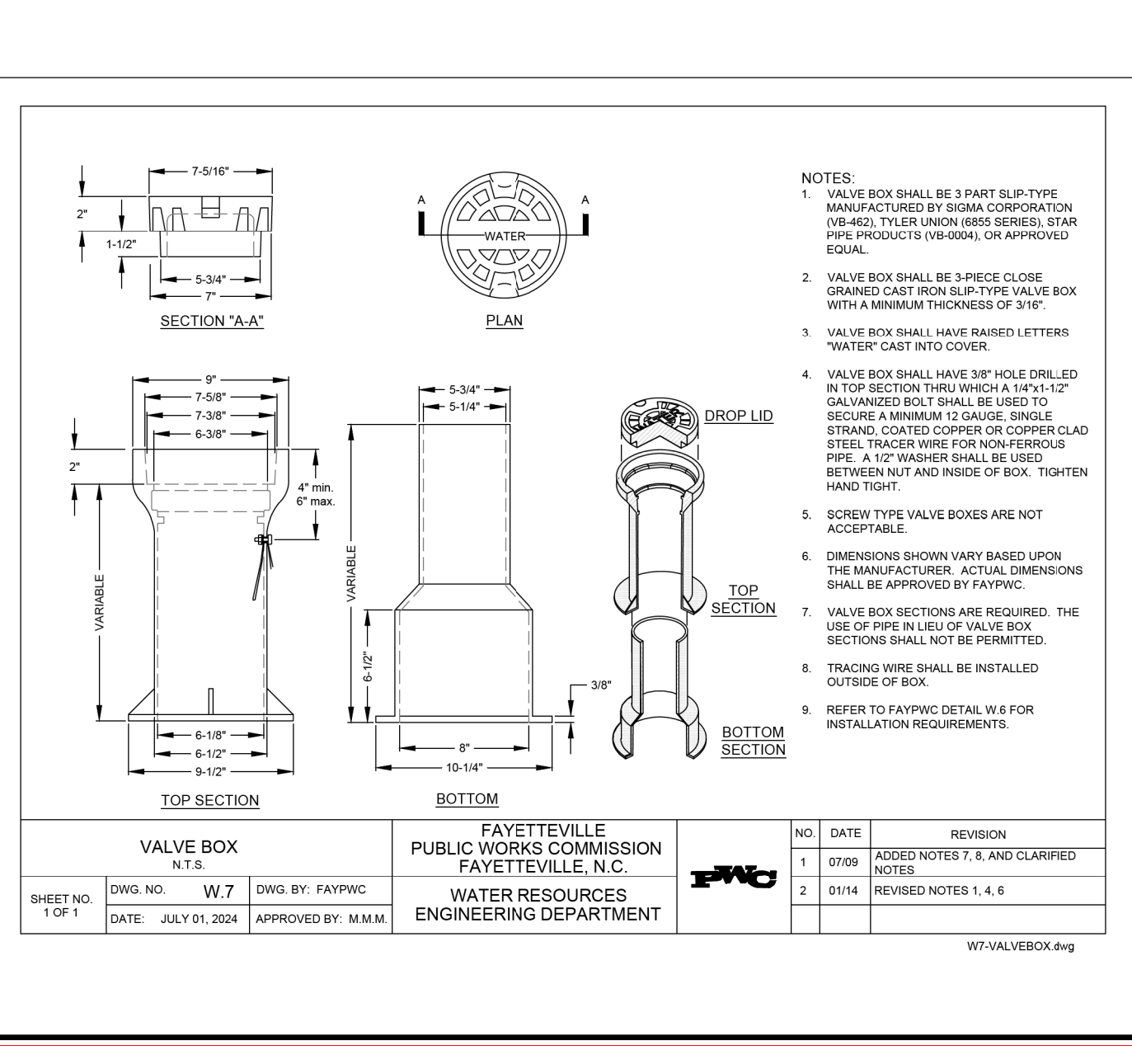
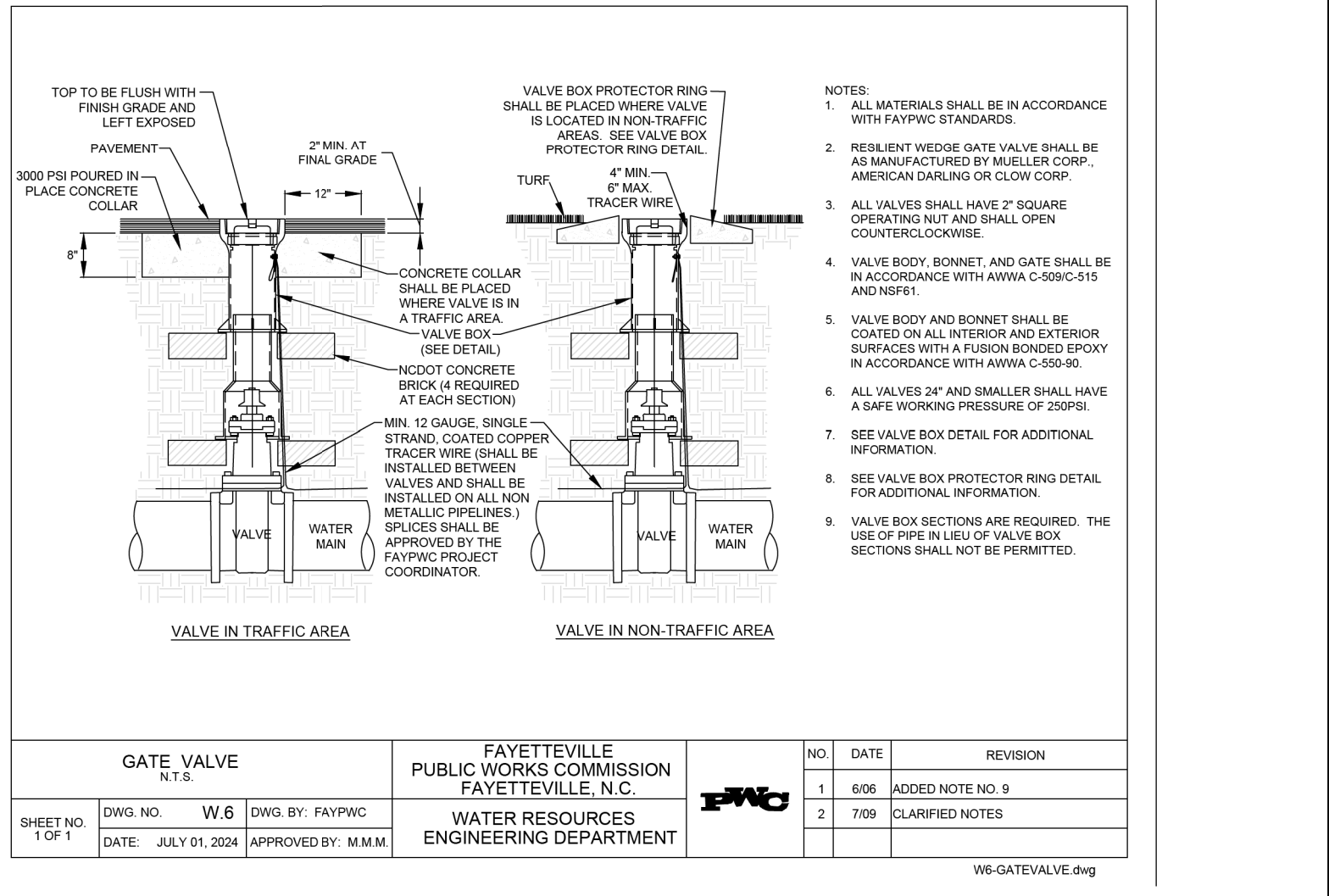
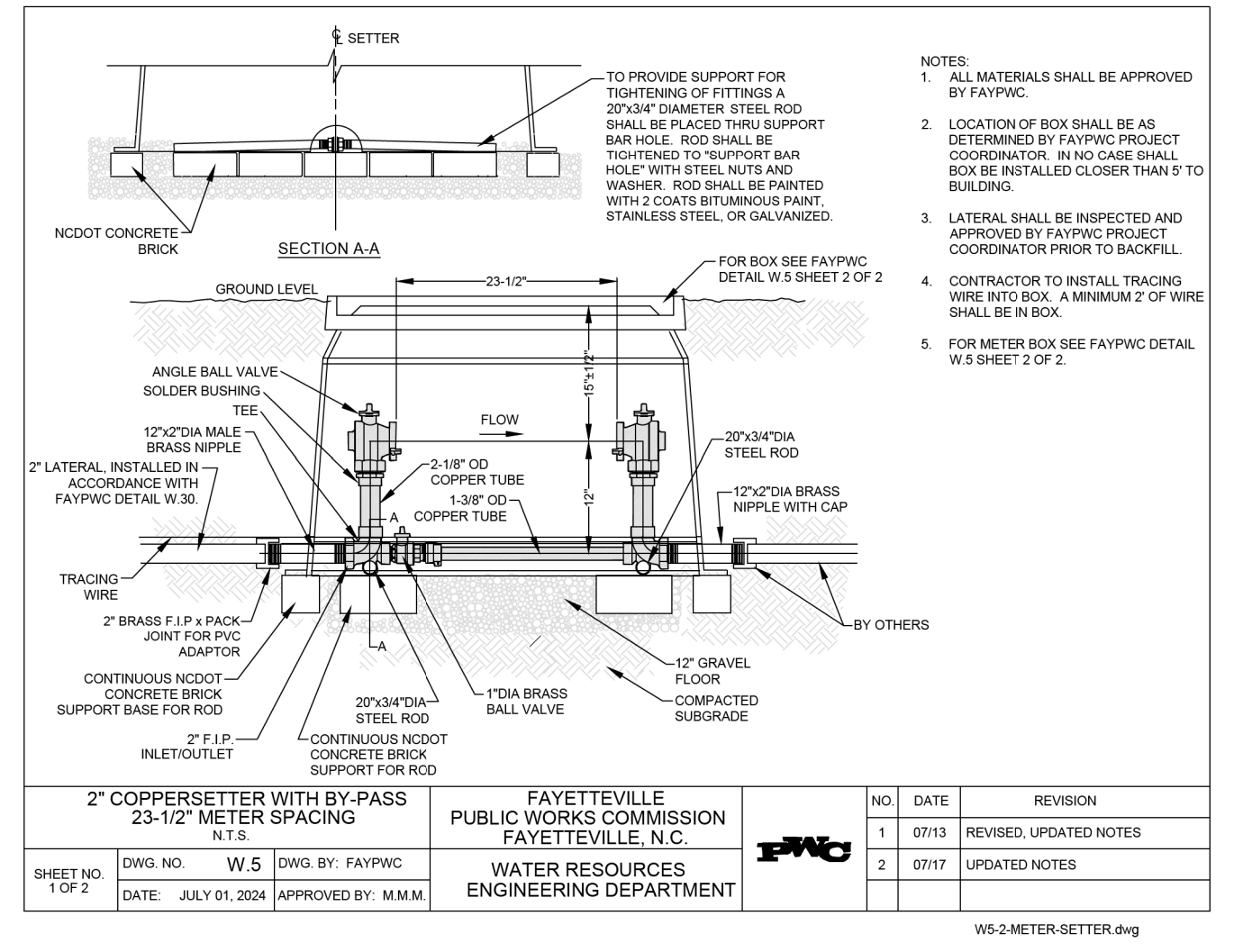
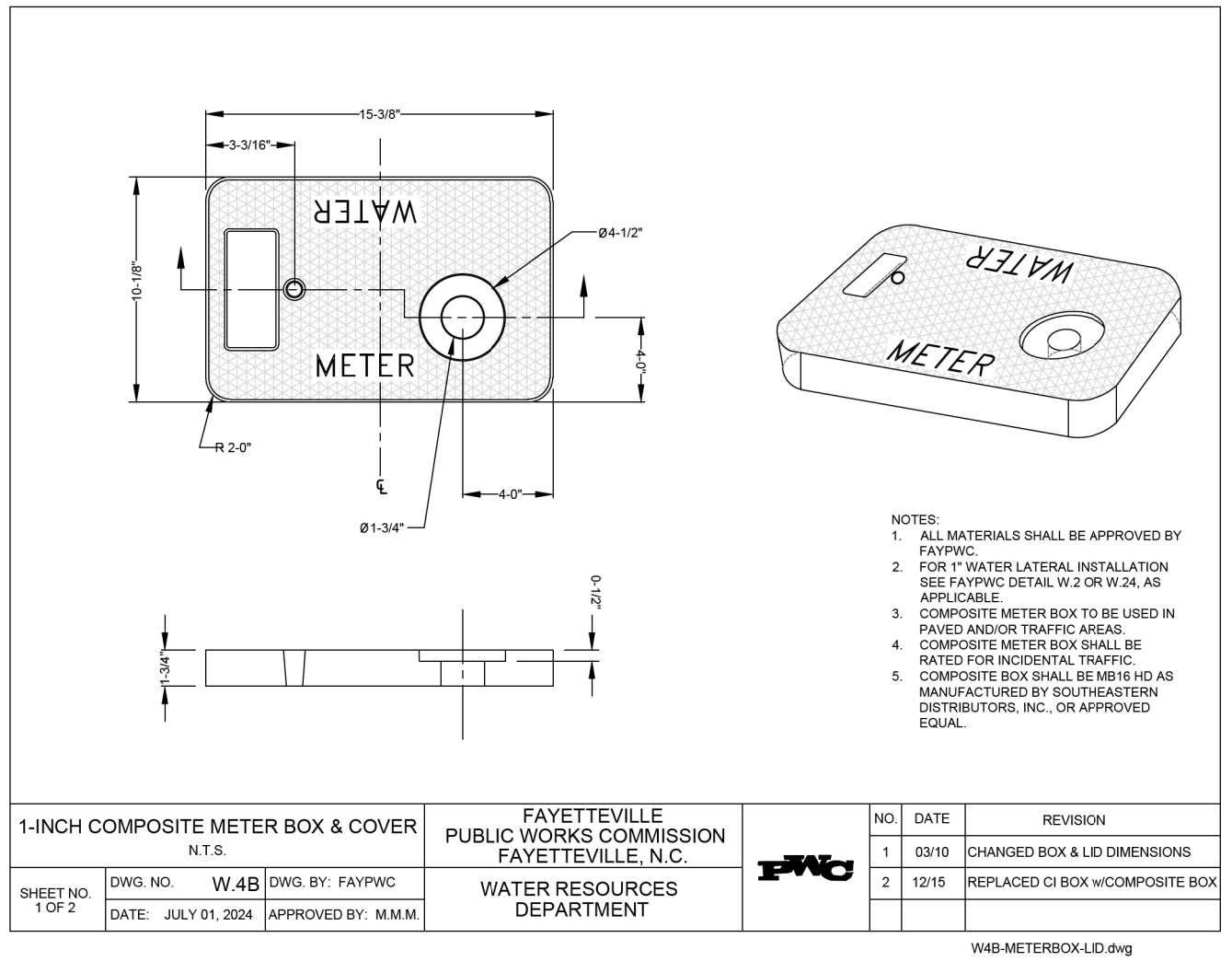
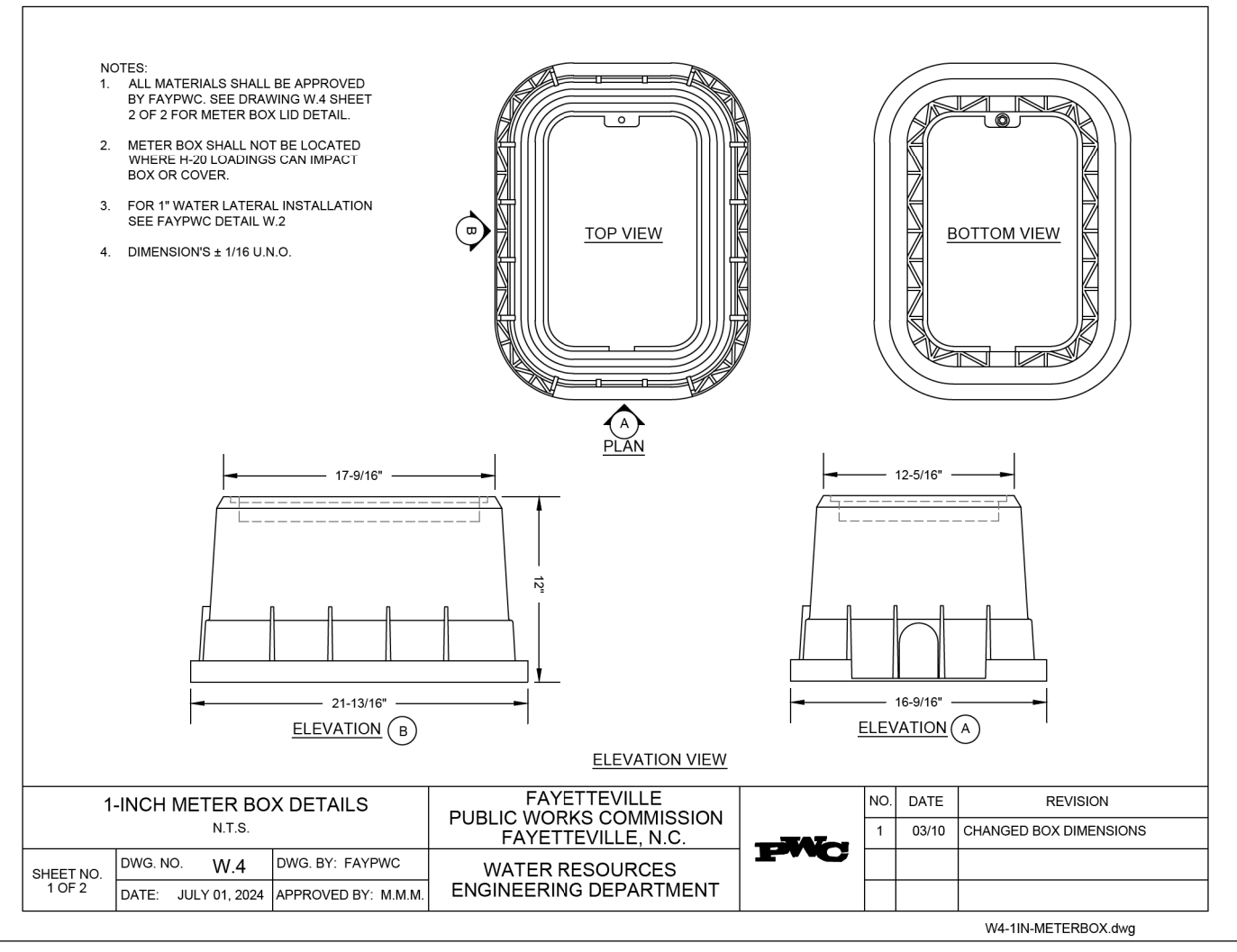
W1-WATER-UTILITY-NOTES.dwg

WATER UTILITY NOTES		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
DWG. NO.	W.1	DWG. BY:	FAYWIC	1	01/01/18	ADDED NOTES 6, 8
DATE:	JULY 01, 2024	APPROVED BY:	M.M.M.	2	06/01/21	ADDED NOTES 1-7 AND RENUMBERED
				3	11/23	REVISED NOTES 10, 14

W1-WATER-UTILITY-NOTES.dwg

1' WATER SERVICE LATERAL		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
DWG. NO.	W.2	DWG. BY:	FAYWIC	1	07/06	RESIZED METER COUPLING
DATE:	JULY 01, 2024	APPROVED BY:	M.M.M.	2	07/13	REVISED NOTE: TRACER WIRE
				3	07/17	REVISED NOTES

W2-WAT.dwg



VALVE BOX		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
DWG. NO.	W.7	DWG. BY:	FAYWIC	1	07/09	ADDED NOTES 7, 8, AND CLARIFIED NOTES
DATE:	JULY 01, 2024	APPROVED BY:	M.M.M.	2	01/14	REVISED NOTES 1, 4, 6

W7-VALVEBOX.dwg

VALVE BOX PROTECTOR RING		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
DWG. NO.	W.8	DWG. BY:	FAYWIC	1	07/09	ADDED NOTES 10, 10 REVISED 4 AND 5
DATE:	JULY 01, 2024	APPROVED BY:	M.M.M.	2	07/13	REVISED NOTES 4, 8, 10

W8-CONC-PROTECTOR-RING.dwg

TAPPING VALVE		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
DWG. NO.	W.9	DWG. BY:	FAYWIC	1	07/09	ADDED NOTES 10, 10 REVISED 4 AND 5
DATE:	JULY 01, 2024	APPROVED BY:	M.M.M.	2	07/13	REVISED NOTES 4, 8, 10

W9-M-TAPPING-VALVE.dwg

DUCTILE IRON TAPPING SLEEVE		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
DWG. NO.	W.10	DWG. BY:	FAYWIC	1	07/09	REVISED NOTE 6, REVISED NOTE 9
DATE:	JULY 01, 2024	APPROVED BY:	M.M.M.	2	07/13	REVISED NOTES 6, 7

W10-M-TAPPING-SLEEVE.dwg

1:55:06 PM 7/15/2024 W:\S-U-4709\U-4709\Utilities\U4709_ut_dtl_UC03A_psh.dgn

PROJECT TYPICAL DETAILS

PREPARED IN THE OFFICE OF:

Wooten

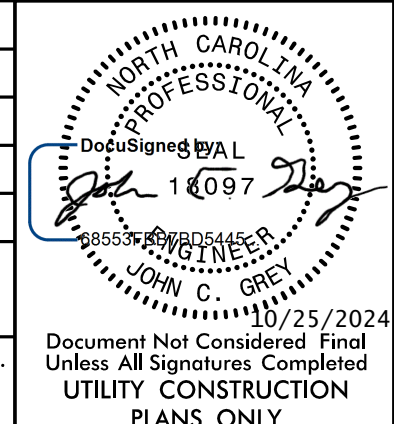
119 Brookstown Ave, Suite 100 • Winston-Salem, NC 27101
(336) 722-5326 • thewootencompany.com
License Number: F-0115

VERTICAL SCALE: 1" = 5'

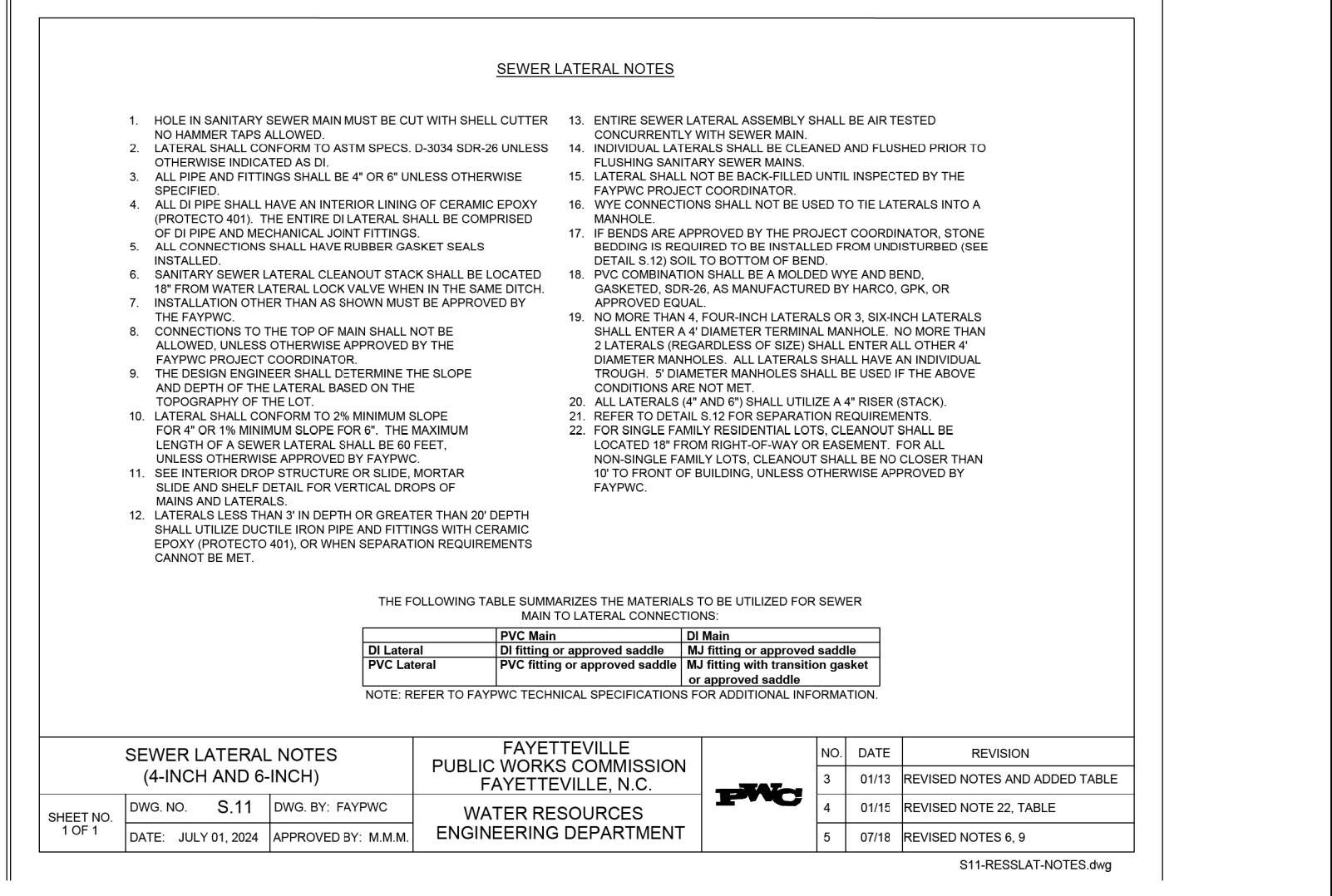
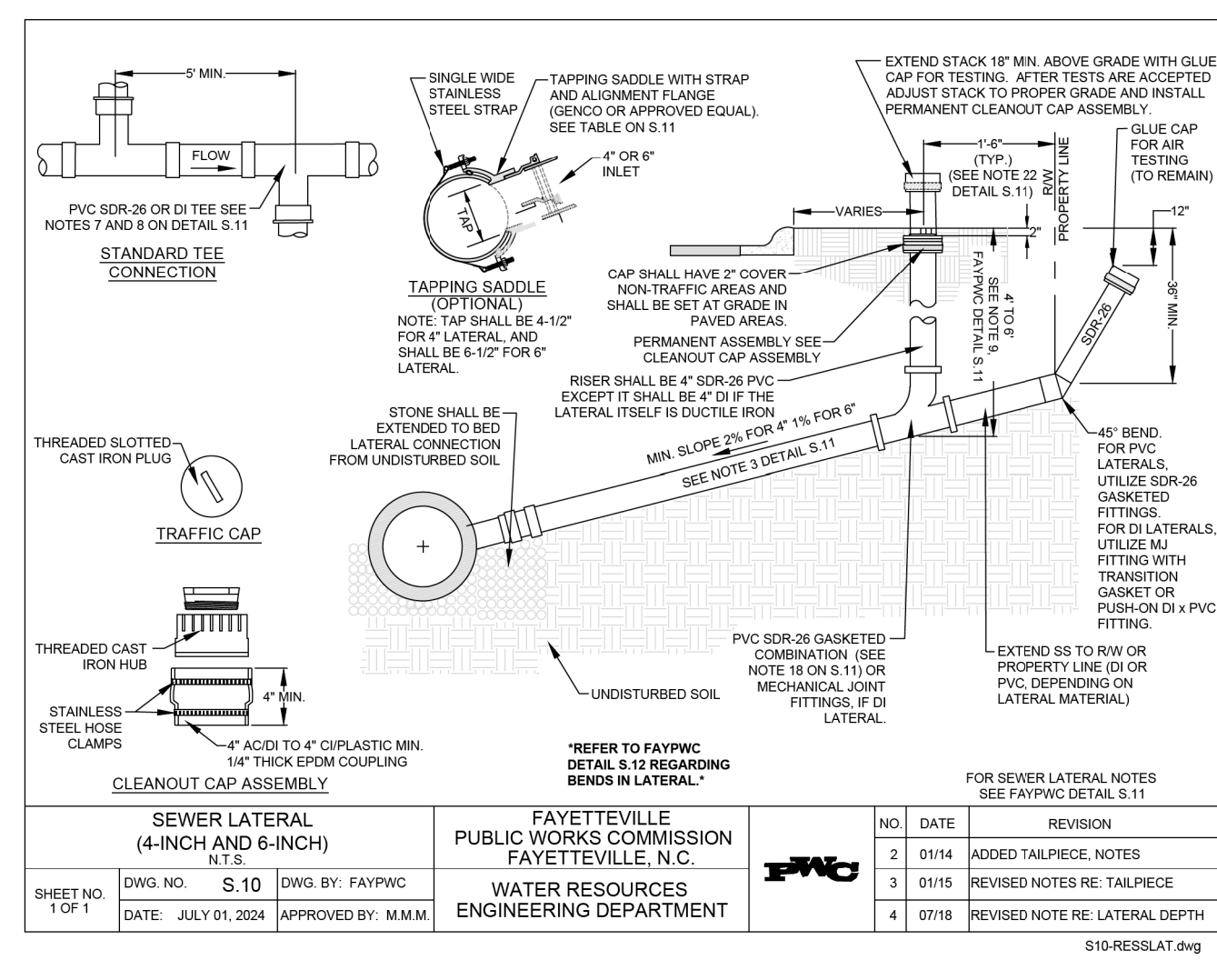
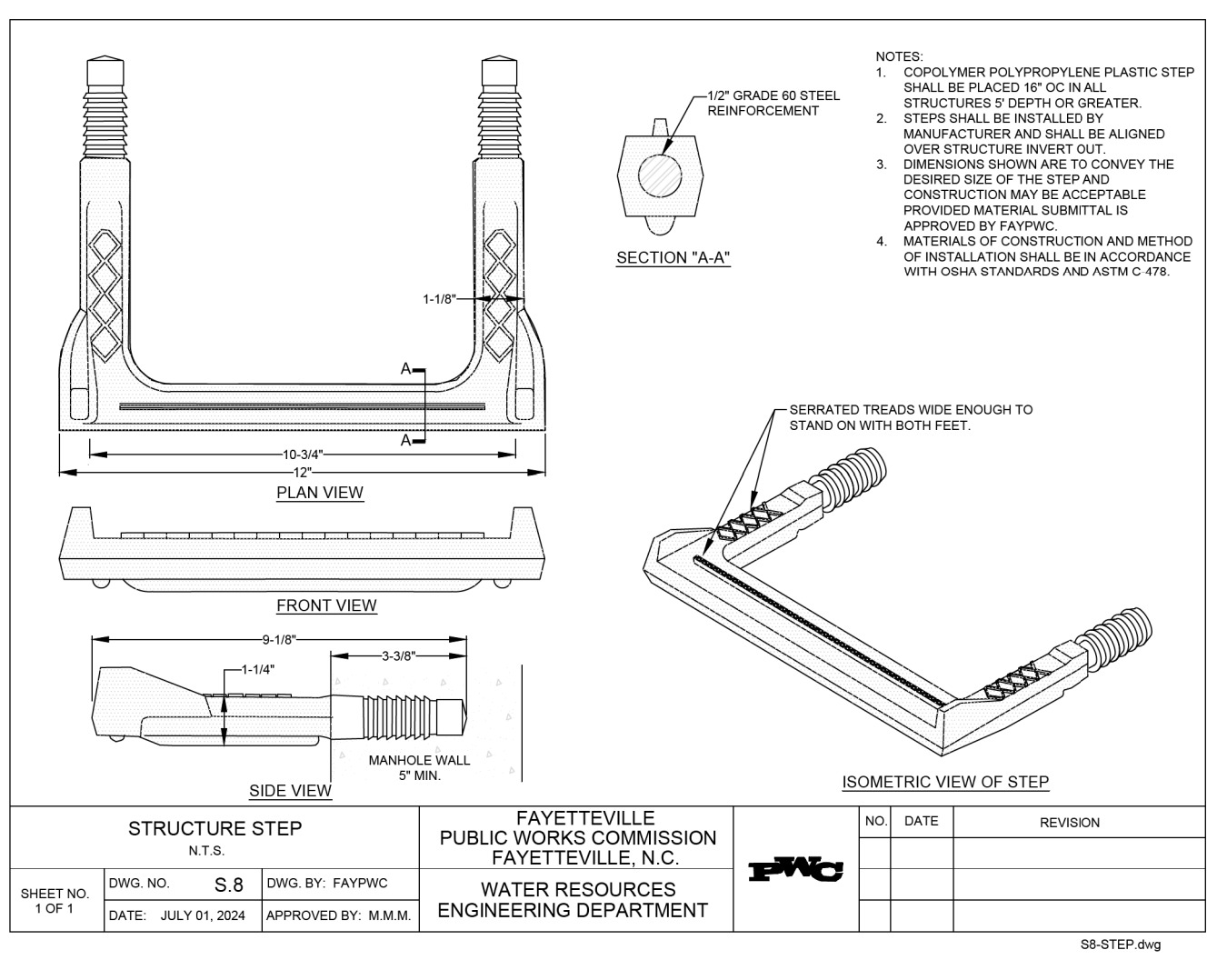
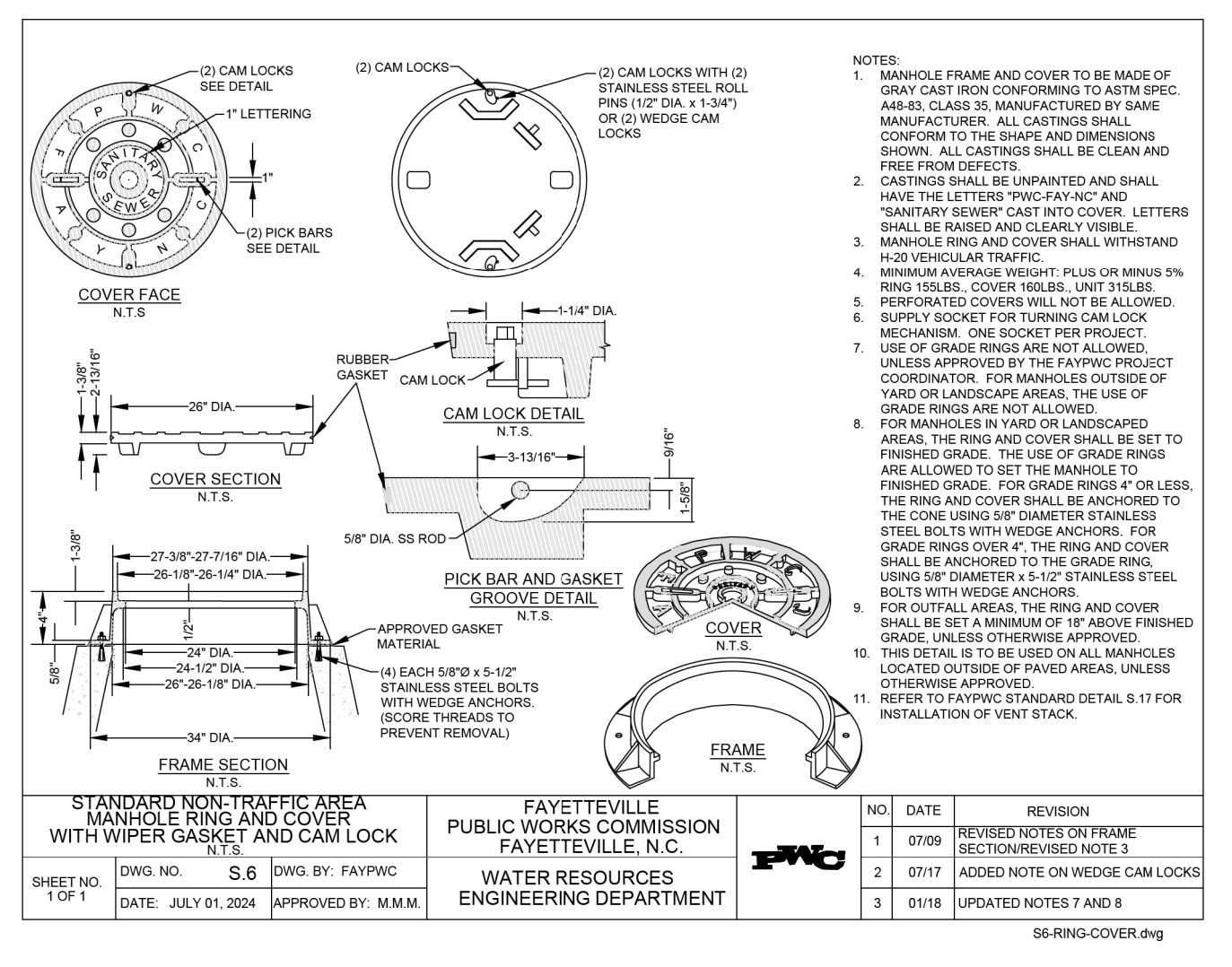
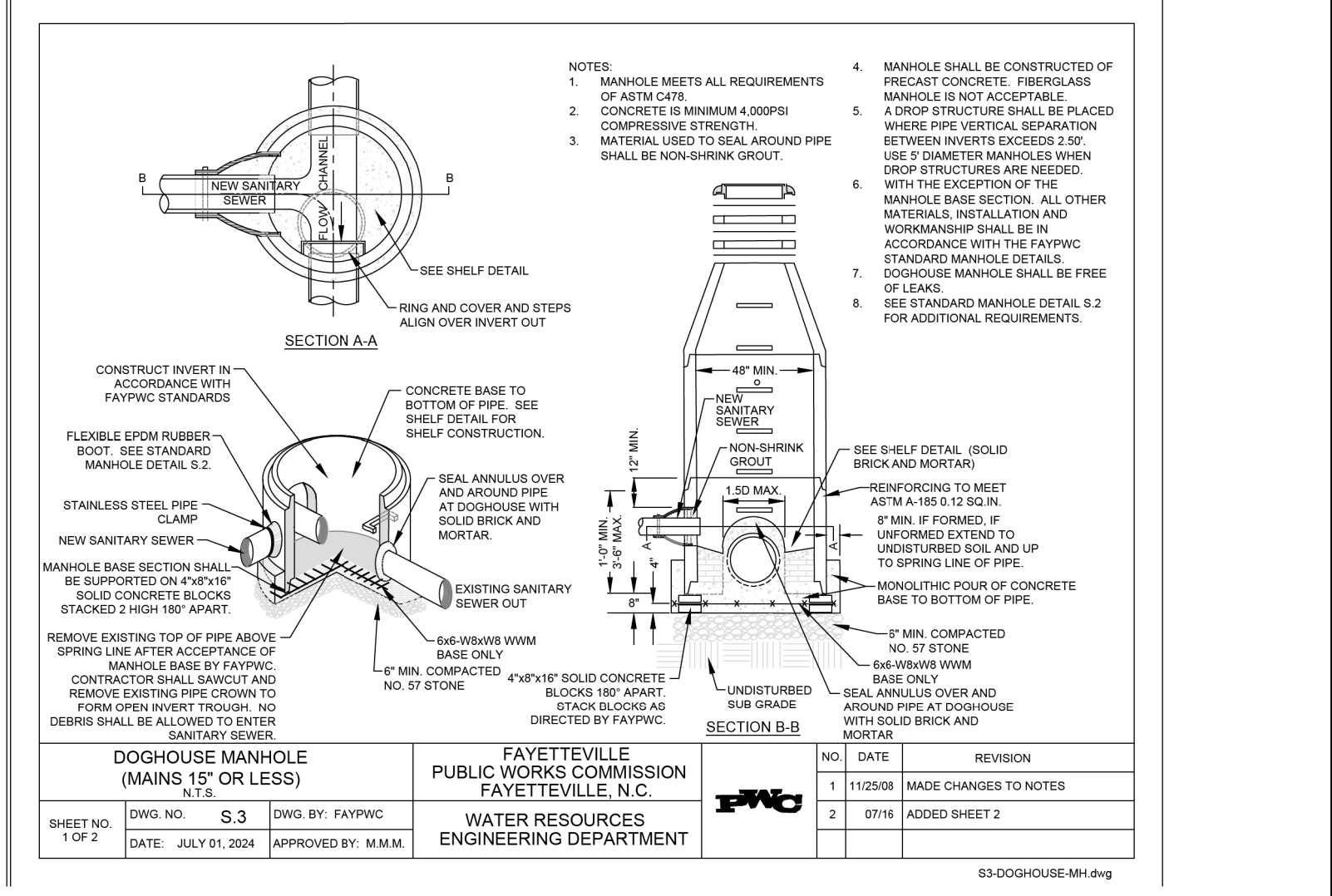
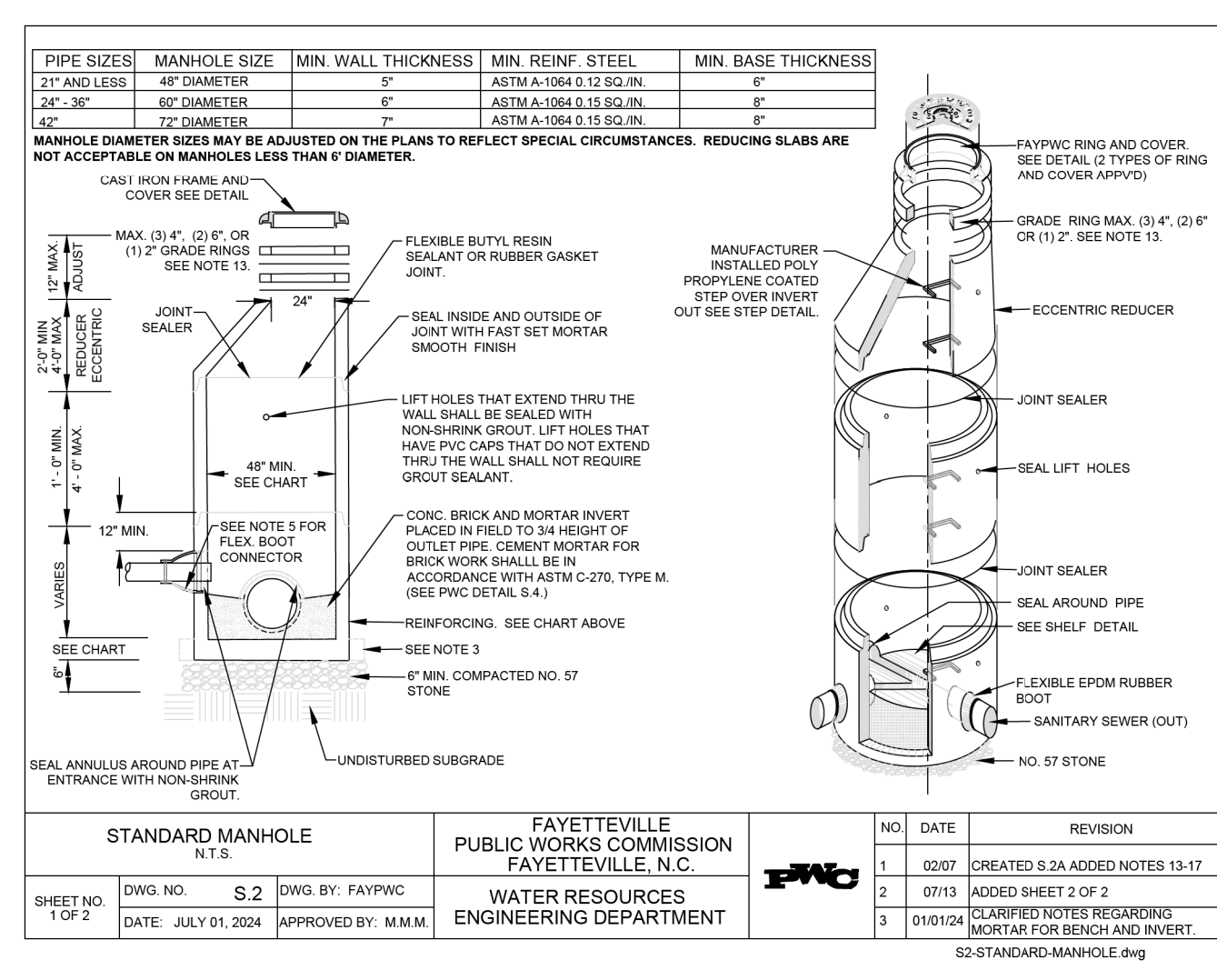
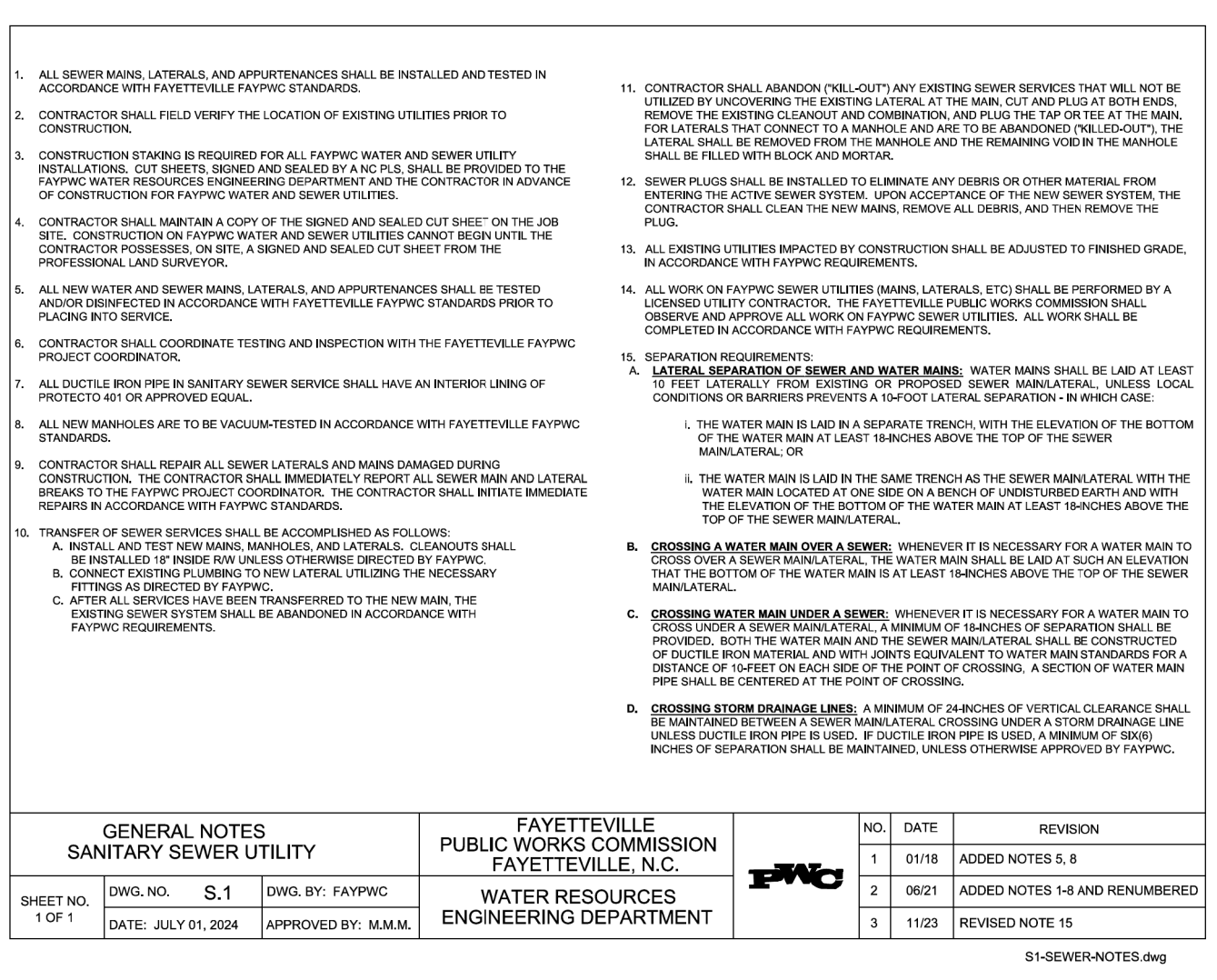
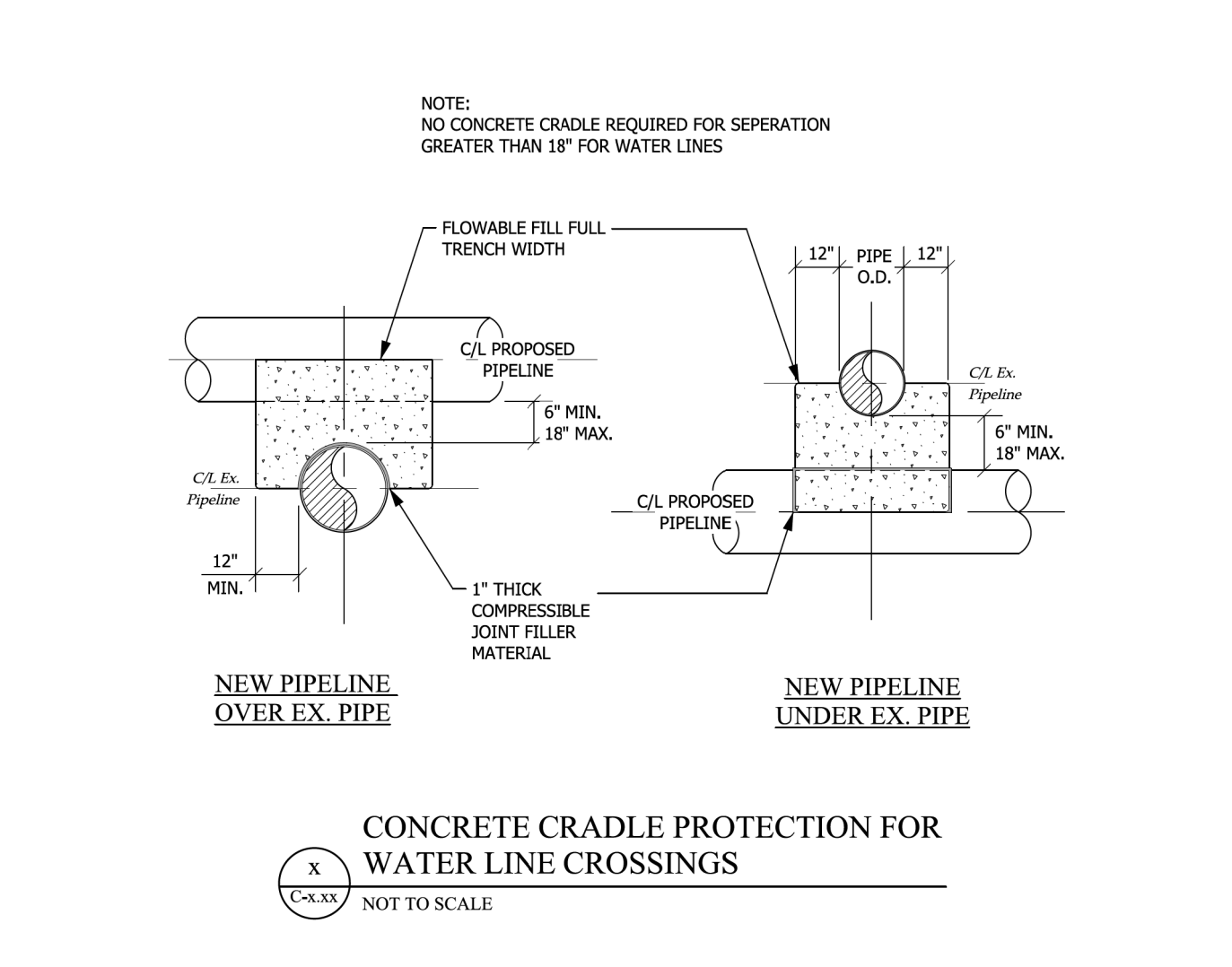
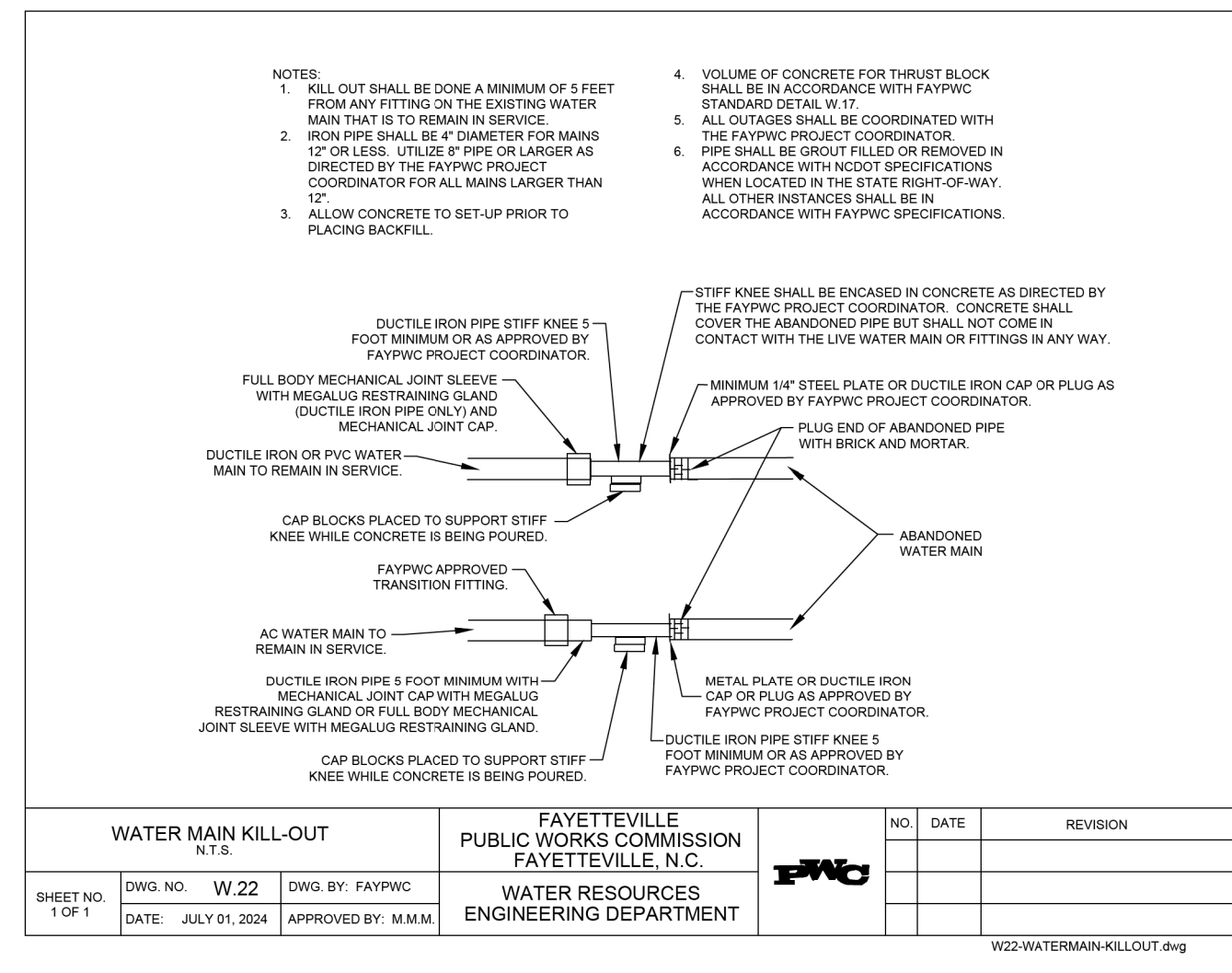
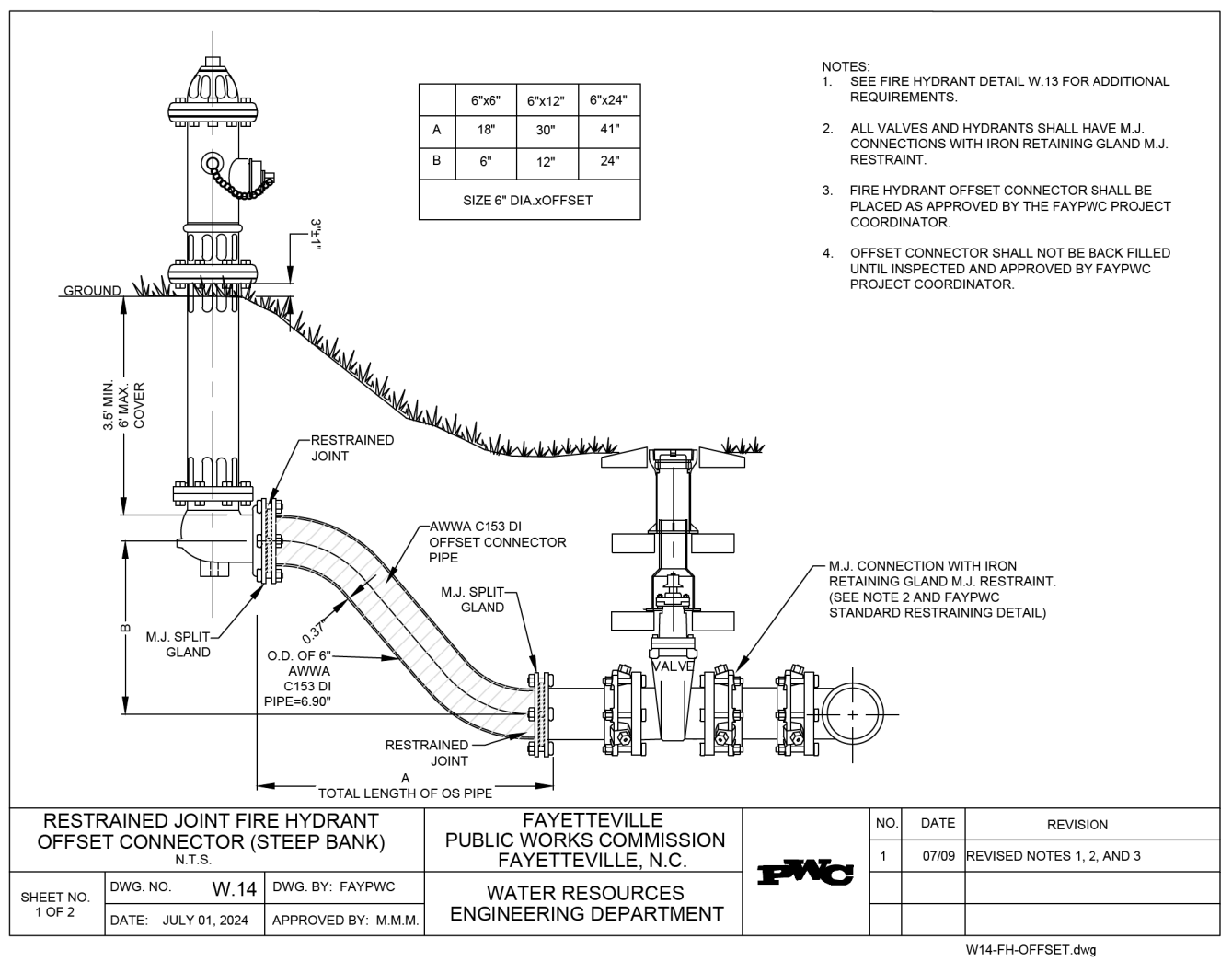
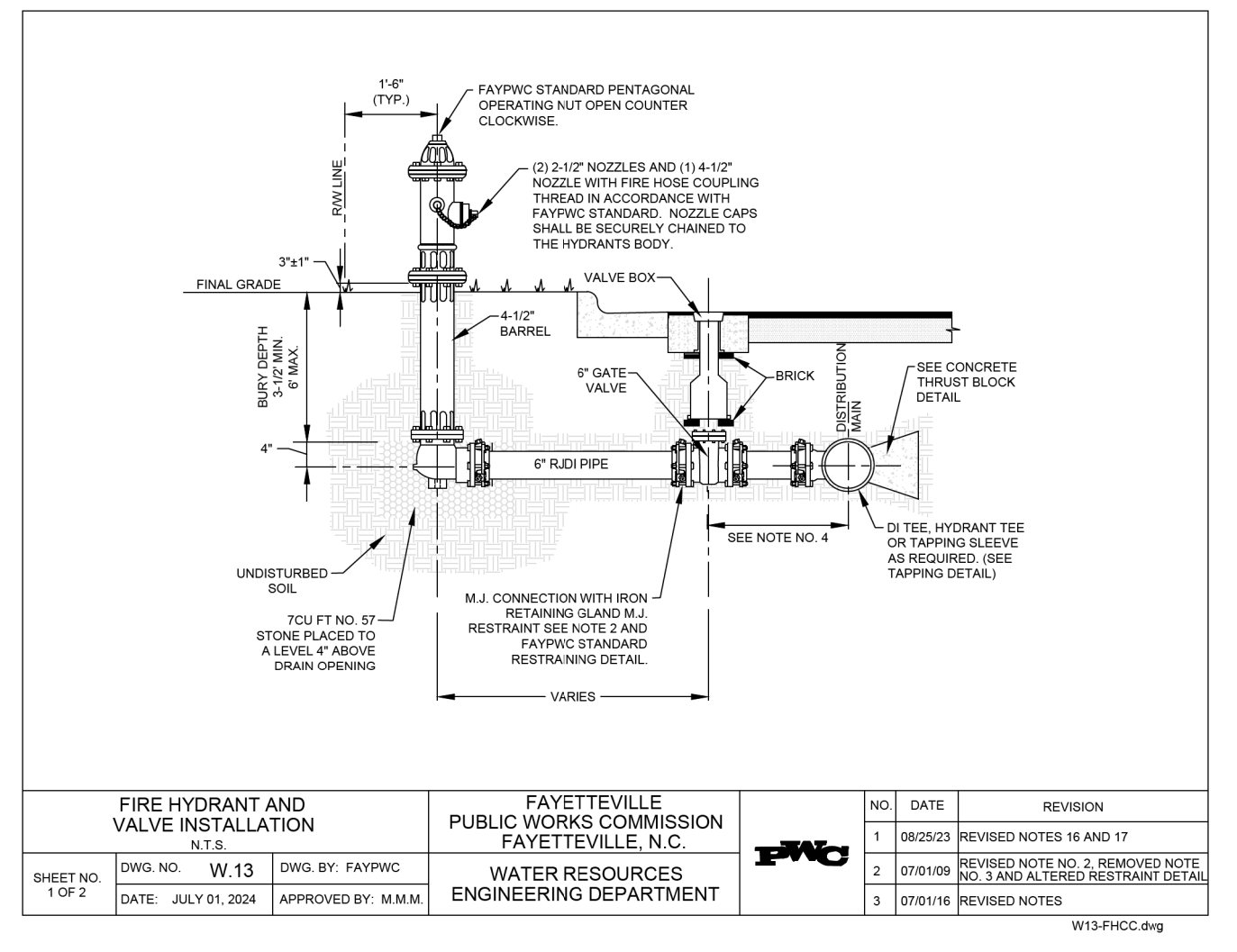
HORIZONTAL SCALE: 1" = 25'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

PROJECT REFERENCE NO.	U-4709	SHEET NO.	UC-3B
DESIGNED BY:	JCG		
DRAWN BY:	CGL		
CHECKED BY:	PLL		
APPROVED BY:	JCG		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			
UTILITY CONSTRUCTION			



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W:\S-U-4709\Utilities\U4709.dwg

3:52:14 PM 6/2/2024

5/14/2024

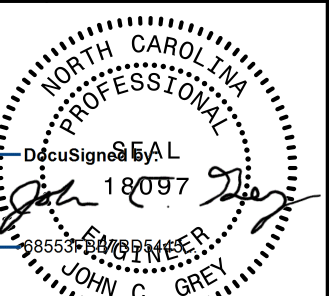
PROJECT TYPICAL DETAILS

PREPARED IN THE OFFICE OF:
Wooten
 119 Brookstown Ave, Suite 100 • Winston-Salem, NC 27101
 (336) 722-5326 • thewootenco.com
 License Number: F-0115

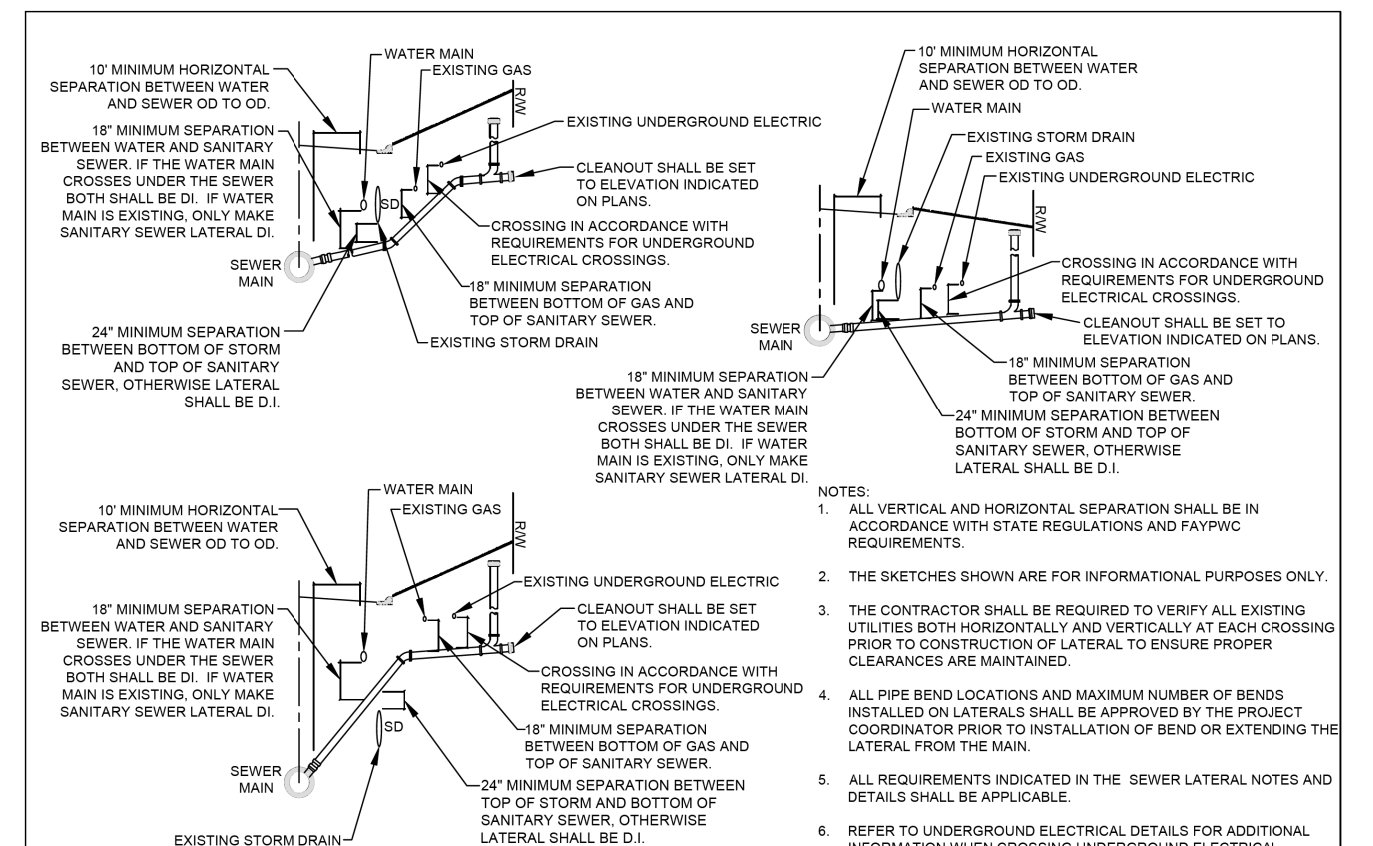
VERTICAL SCALE: 5' 0 5' 10'
 HORIZONTAL SCALE: 25' 0 25' 50'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

PROJECT REFERENCE NO. U-4709
 SHEET NO. UC-3C
 DESIGNED BY: JCG
 DRAWN BY: CGL
 CHECKED BY: PLL
 APPROVED BY: JCG
 REVISED:
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151
UTILITY CONSTRUCTION



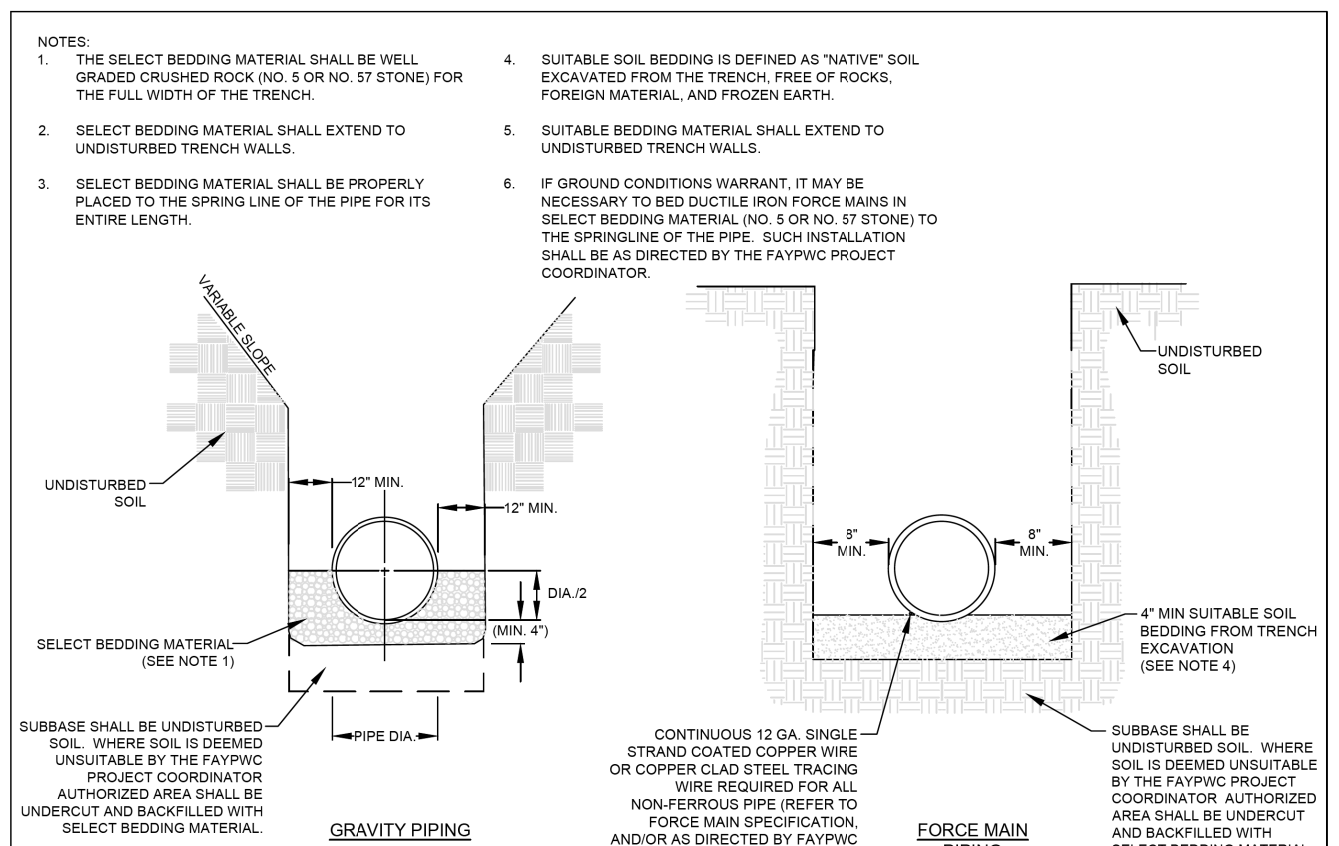
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NO.	DATE	REVISION
1	11/06	ADDED NOTE ON LATERALS
2	03/10	ADDED LATERAL AND W/SEPARATION
3	11/23	REVISED/CLARIFIED NOTES

SEWER LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS N.T.S.
 DWG. NO. S.12 DWG. BY: FAY/PWC
 DATE: JULY 01, 2024 APPROVED BY: M.M.M.

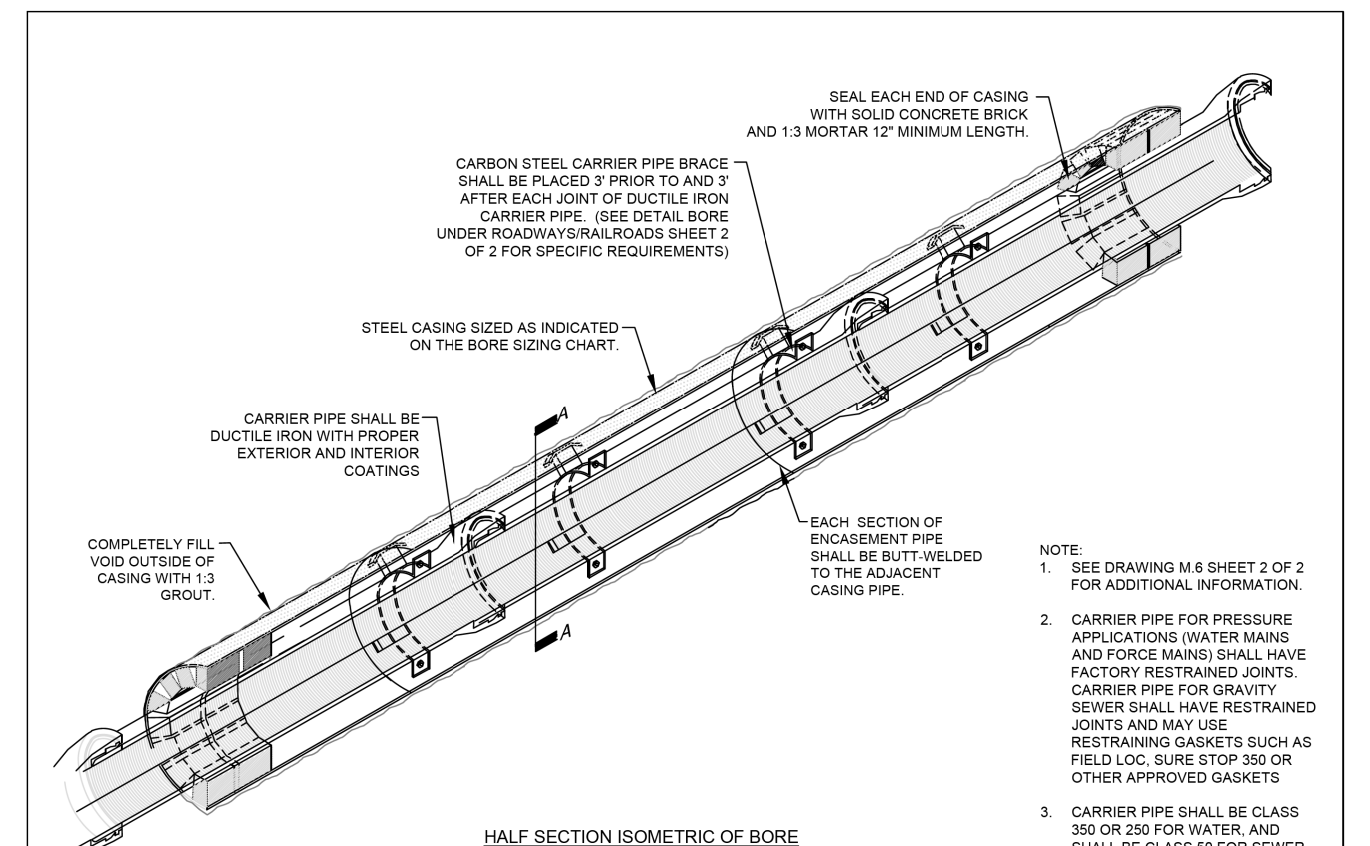
FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
 WATER RESOURCES ENGINEERING DEPARTMENT



NO.	DATE	REVISION
1	01/01/05	REVISED NOTES
2	01/01/16	REVISED NOTES

SEWER BEDDING N.T.S.
 DWG. NO. S.13 DWG. BY: FAY/PWC
 DATE: JULY 01, 2024 APPROVED BY: M.M.M.

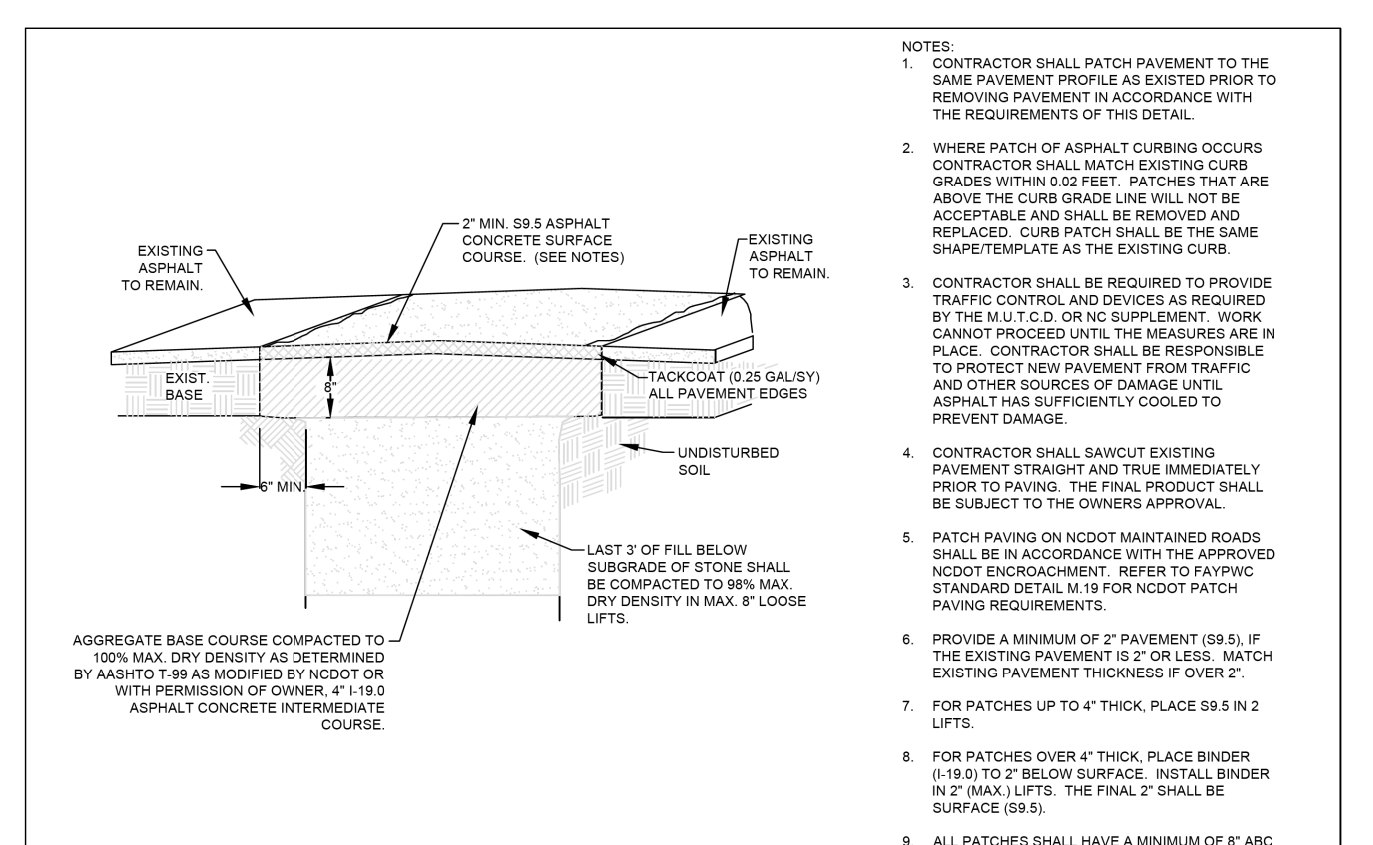
FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
 WATER RESOURCES ENGINEERING DEPARTMENT



NO.	DATE	REVISION
1	01/05	ADDED NOTES 2 AND 3
2	10/09	CLARIFIED RESTRAINT REQUIREMENTS

BORE UNDER ROADWAYS/RAILROADS N.T.S.
 DWG. NO. M.6 DWG. BY: FAY/PWC
 DATE: JULY 01, 2024 APPROVED BY: M.M.M.

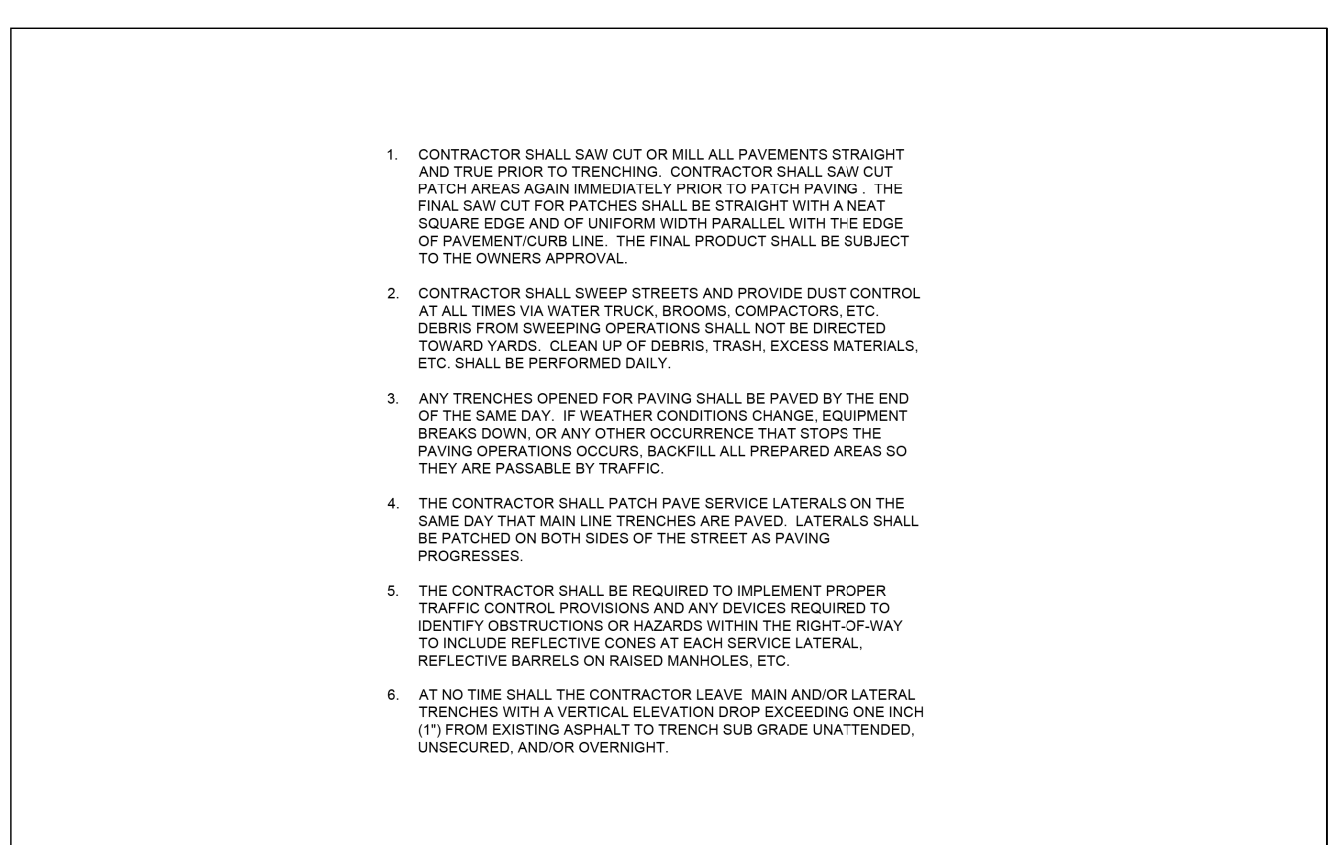
FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
 WATER RESOURCES ENGINEERING DEPARTMENT



NO.	DATE	REVISION
1	01/07	CHANGED ASPHALT MIX
2	08/10	REVISED, DELETED NOTES

PERMANENT PAVEMENT PATCH N.T.S.
 DWG. NO. M.2 DWG. BY: FAY/PWC
 DATE: JULY 01, 2024 APPROVED BY: M.M.M.

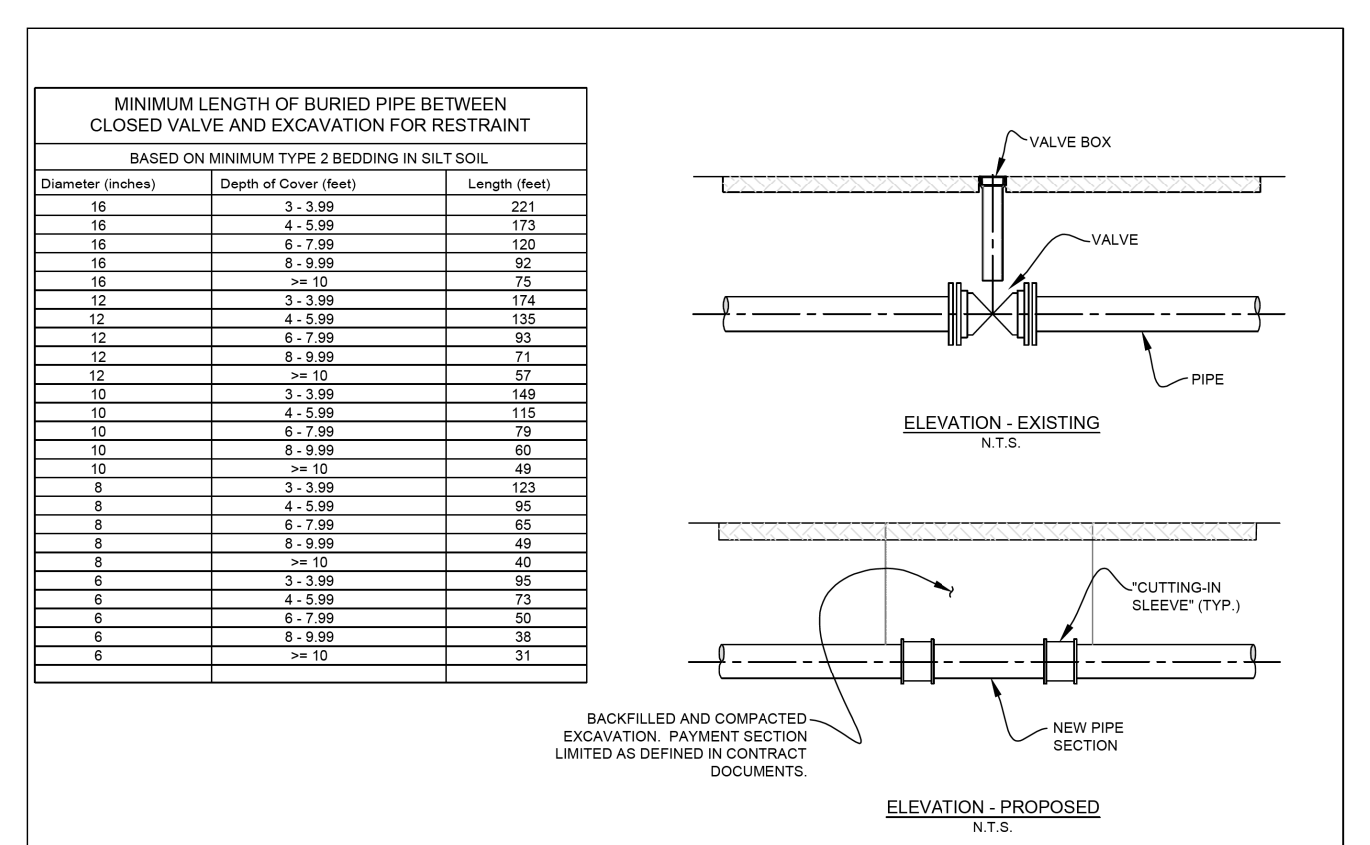
FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
 WATER RESOURCES ENGINEERING DEPARTMENT



Diameter (Inches)	Depth of Cover (Feet)	Length (Feet)
18	3-3.99	221
18	4-3.99	173
18	5-3.99	120
18	6-3.99	82
18	7-3.99	57
18	8-3.99	41
18	9-3.99	31
18	10-3.99	24
18	11-3.99	19
18	12-3.99	15
18	13-3.99	12
18	14-3.99	9
18	15-3.99	7
18	16-3.99	5
18	17-3.99	4
18	18-3.99	3
18	19-3.99	2
18	20-3.99	1

PAVEMENT REPAIR NOTES
 DWG. NO. M.1 DWG. BY: FAY/PWC
 DATE: JULY 01, 2024 APPROVED BY: M.M.M.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
 WATER RESOURCES ENGINEERING DEPARTMENT



NO.	DATE	REVISION
1	07/10	REVISED, DELETED NOTES

VALVE REMOVAL WITH EXCAVATION N.T.S.
 DWG. NO. M.15 DWG. BY: FAY/PWC
 DATE: JULY 01, 2024 APPROVED BY: M.M.M.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.
 WATER RESOURCES ENGINEERING DEPARTMENT

69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

5/14/2011

PREPARED IN THE OFFICE OF:

Wooten

119 Brooktown Ave, Suite 100 • Winston-Salem, NC 27101
 (336) 722-5326 • thewootencompany.com
 License Number: F-0115

PROJECT REFERENCE NO. **U-4709** SHEET NO. **UC-4 SEWER**

DESIGNED BY: JCG
 DRAWN BY: CGL
 CHECKED BY: PLL
 APPROVED BY: JCG

VERTICAL SCALE: 1" = 5'
 HORIZONTAL SCALE: 1" = 25'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

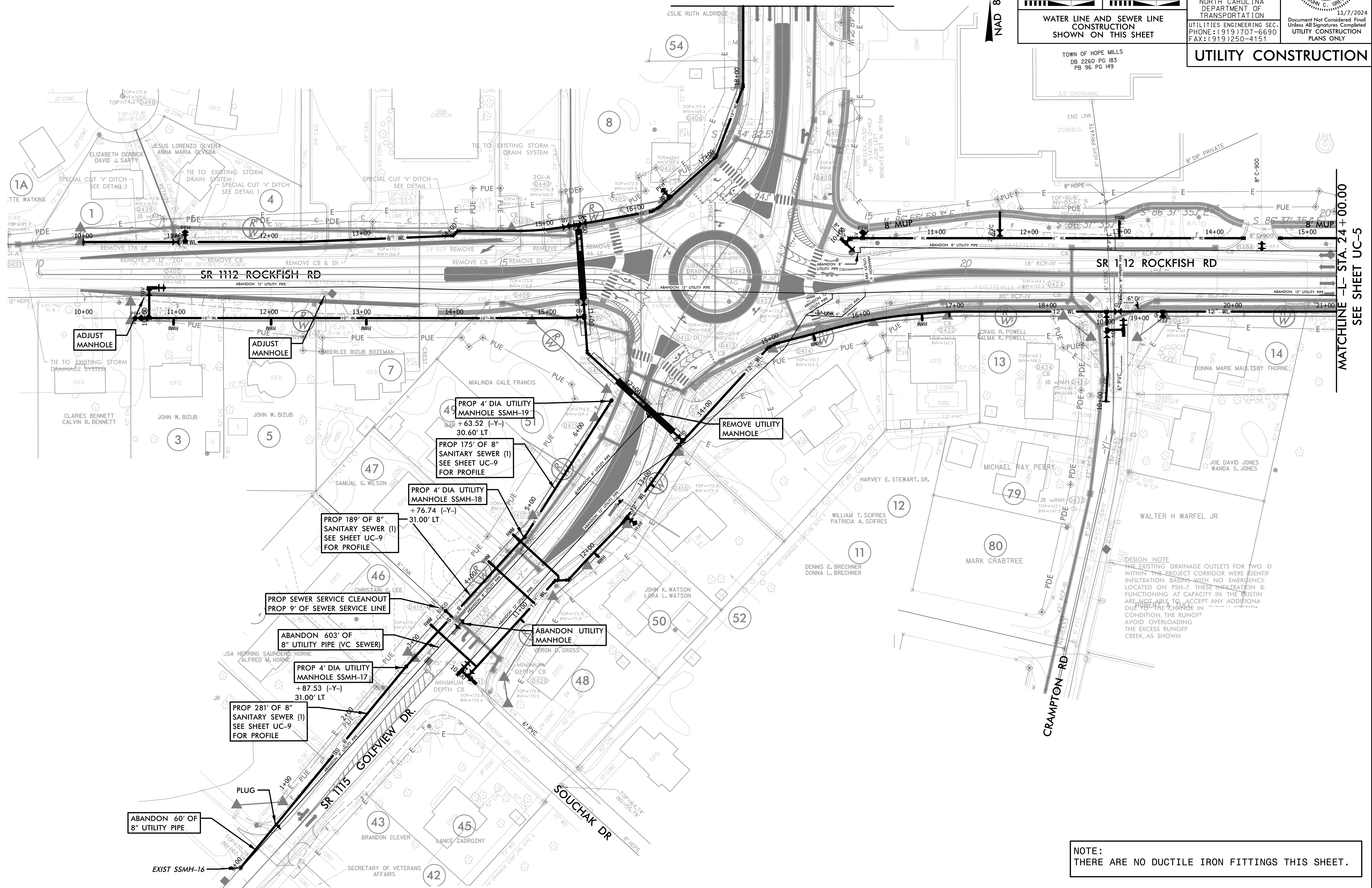
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 UTILITIES ENGINEERING SEC.
 PHONE: (919) 707-6690
 FAX: (919) 250-4151

11/7/2024
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UTILITY CONSTRUCTION

MATCHLINE -Y- STA. 18 + 50.00
SEE SHEET 7

NAD 83 NA 2011



MATCHLINE -L- STA. 24 + 00.00
SEE SHEET UC-5

NOTE:
THERE ARE NO DUCTILE IRON FITTINGS THIS SHEET.

5/14/2011

PREPARED IN THE OFFICE OF:

Wooten

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 (336) 722-5326 • thewootencompany.com
 License Number: F-0115

PROJECT REFERENCE NO. **U-4709** SHEET NO. **UC-4 WATER**

DESIGNED BY: JCG
 DRAWN BY: CGL
 CHECKED BY: PLL
 APPROVED BY: JCG
 REVISED:

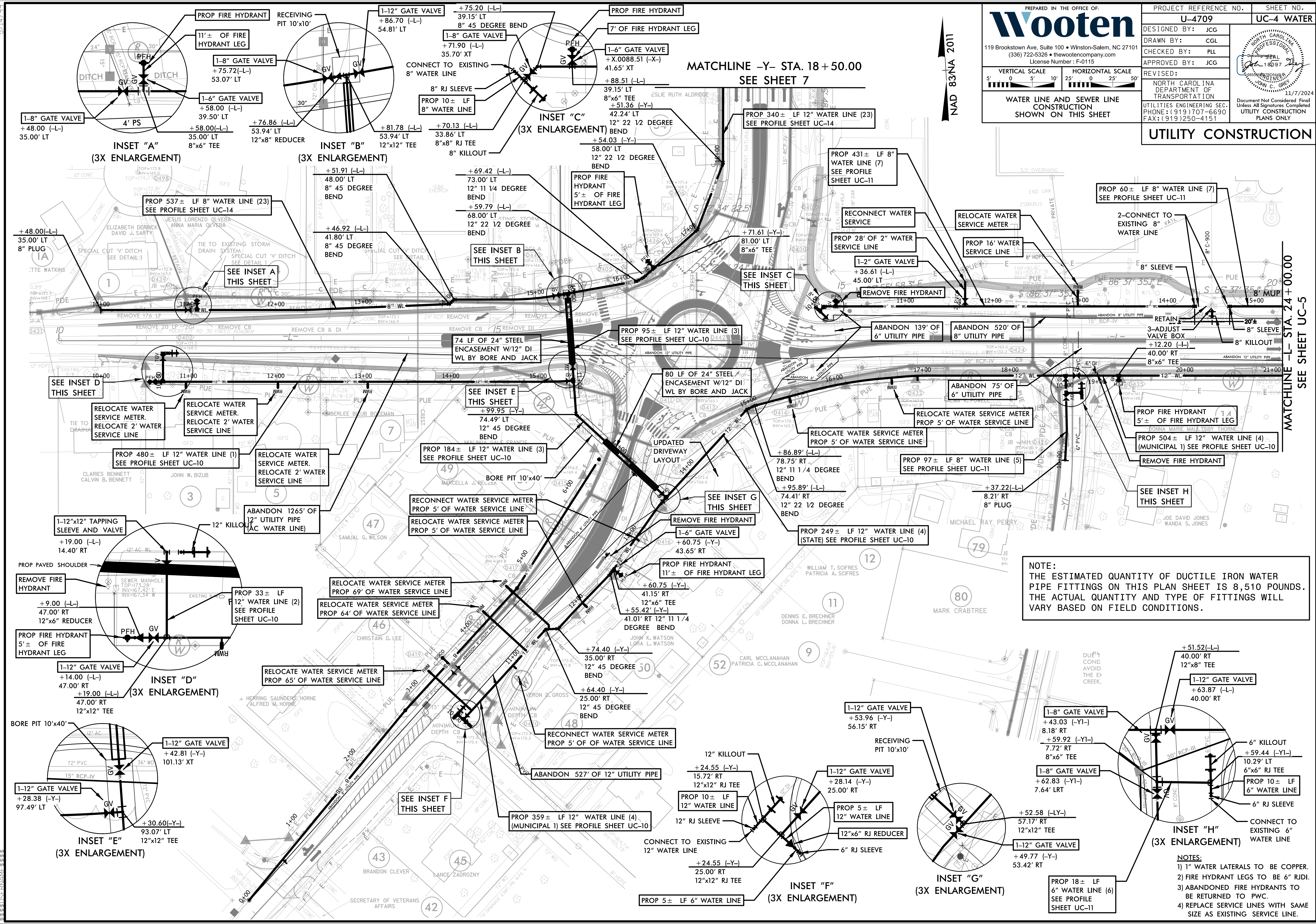
VERTICAL SCALE: 5' = 1' HORIZONTAL SCALE: 25' = 1'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

UTILITY CONSTRUCTION

11/7/2024

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NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 8,510 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

- NOTES:**
- 1" WATER LATERALS TO BE COPPER.
 - FIRE HYDRANT LEGS TO BE 6" RIDI.
 - ABANDONED FIRE HYDRANTS TO BE RETURNED TO PWC.
 - REPLACE SERVICE LINES WITH SAME SIZE AS EXISTING SERVICE LINE.

5/14/23

PREPARED IN THE OFFICE OF:

Wooten

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 (336) 722-5326 • thewootencompany.com
 License Number: F-0115

PROJECT REFERENCE NO.	SHEET NO.
U-4709	UC-5 SEWER

DESIGNED BY: JCG
 DRAWN BY: CGL
 CHECKED BY: PLL
 APPROVED BY: JCG

REVISI:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

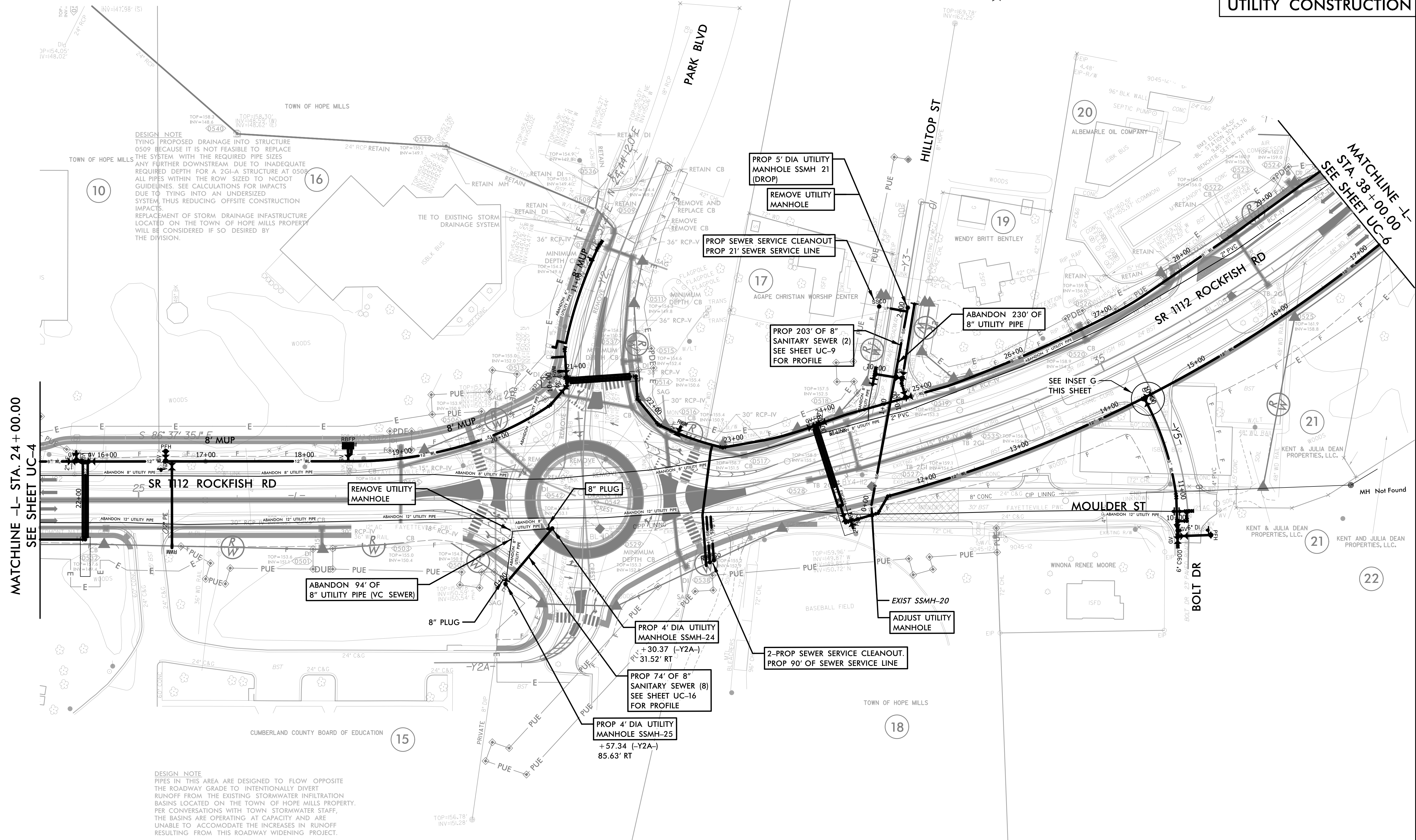
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151

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 UTILITY CONSTRUCTION PLANS ONLY

11/7/2024

NAD 83/NA 2011

DESIGN NOTE
 USED OTCB (STRUCTURE 0526, -L- STA. 34+97:50' LT)
 IN EVENT OF A LARGE RAINFALL EVENT THAT
 WOULD RESULT IN AN OVERFLOW EVENT FROM
 THE EXISTING BASIN.



MATCHLINE -L- STA. 24+00.00
SEE SHEET UC-4

MATCHLINE -L- STA. 38+00.00
SEE SHEET UC-6

DESIGN NOTE
 TYING PROPOSED DRAINAGE INTO STRUCTURE
 0509 BECAUSE IT IS NOT FEASIBLE TO REPLACE
 THE SYSTEM WITH THE REQUIRED PIPE SIZES
 ANY FURTHER DOWNSTREAM DUE TO INADEQUATE
 REQUIRED DEPTH FOR A 2GI-A STRUCTURE AT 0509
 ALL PIPES WITHIN THE ROW SIZED TO NCDOT
 GUIDELINES. SEE CALCULATIONS FOR IMPACTS
 DUE TO TYING INTO AN UNDERSIZED
 SYSTEM, THUS REDUCING OFFSITE CONSTRUCTION
 IMPACTS.
 REPLACEMENT OF STORM DRAINAGE INFRASTRUCTURE
 LOCATED ON THE TOWN OF HOPE MILLS PROPERTY
 WILL BE CONSIDERED IF SO DESIRED BY
 THE DIVISION.

DESIGN NOTE
 PIPES IN THIS AREA ARE DESIGNED TO FLOW OPPOSITE
 THE ROADWAY GRADE TO INTENTIONALLY DIVERT
 RUNOFF FROM THE EXISTING STORMWATER INFILTRATION
 BASINS LOCATED ON THE TOWN OF HOPE MILLS PROPERTY.
 PER CONVERSATIONS WITH TOWN STORMWATER STAFF,
 THE BASINS ARE OPERATING AT CAPACITY AND ARE
 UNABLE TO ACCOMMODATE THE INCREASES IN RUNOFF
 RESULTING FROM THIS ROADWAY WIDENING PROJECT.

NOTE:
THERE ARE NO DUCTILE IRON FITTINGS THIS SHEET.

5/14/2011

PREPARED IN THE OFFICE OF:

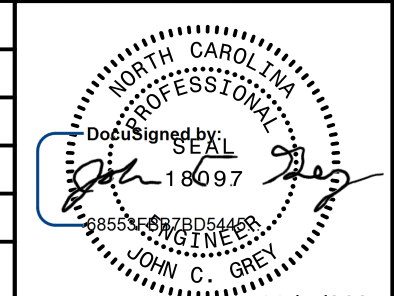
Wooten

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 License Number: F-0115

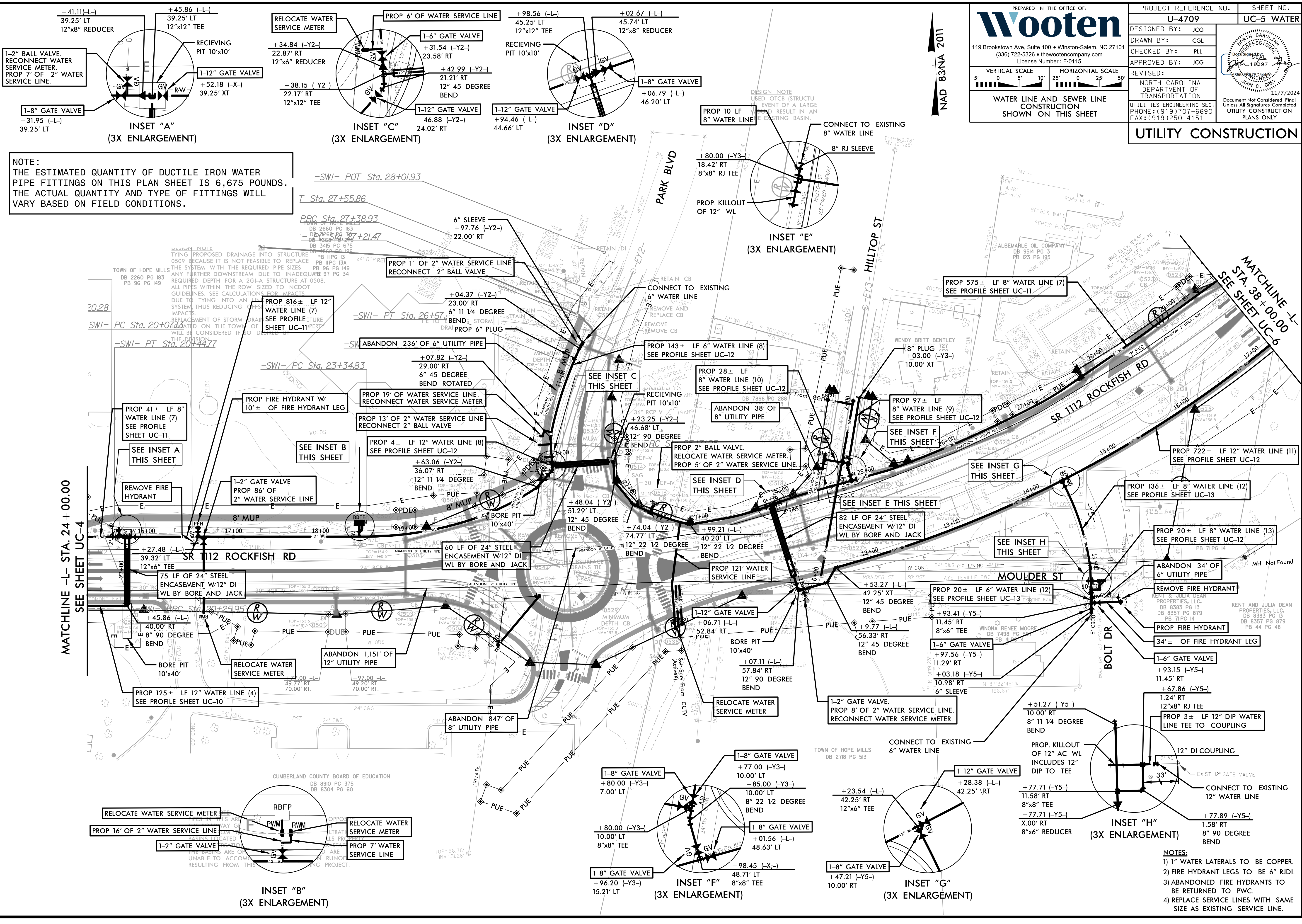
VERTICAL SCALE: 1" = 5'
 HORIZONTAL SCALE: 1" = 25'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4709	UC-5 WATER
DESIGNED BY: JCG	
DRAWN BY: CGL	
CHECKED BY: PLL	
APPROVED BY: JCG	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	



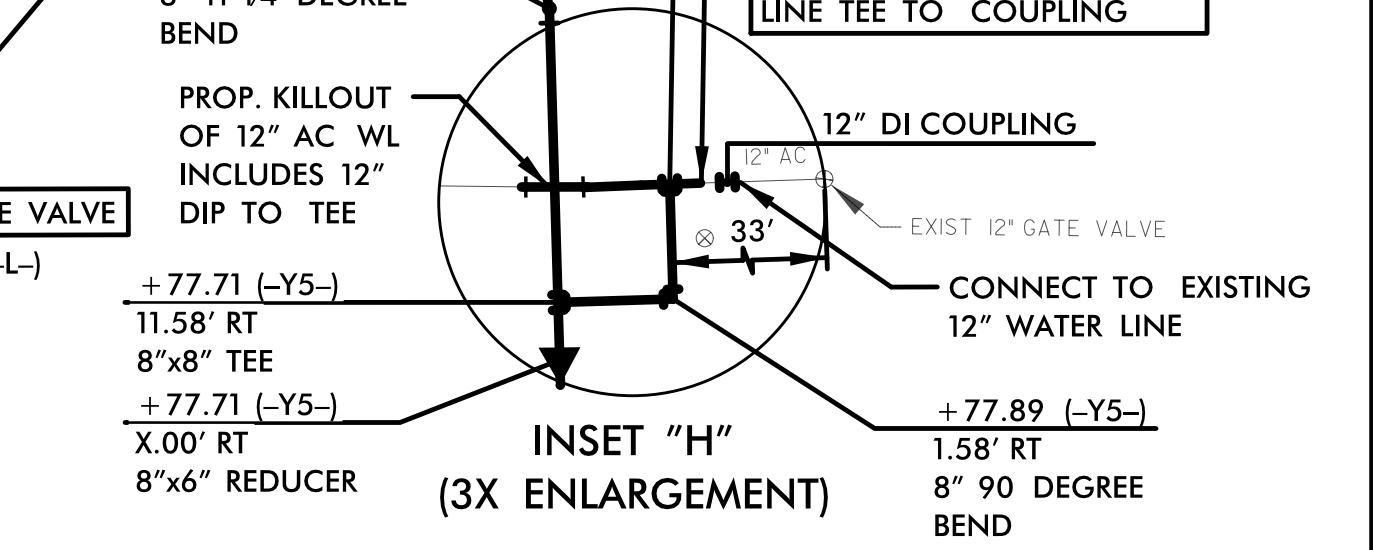
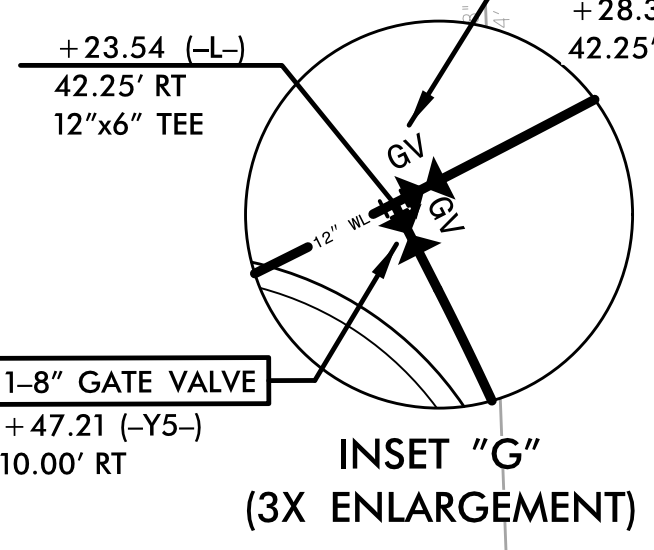
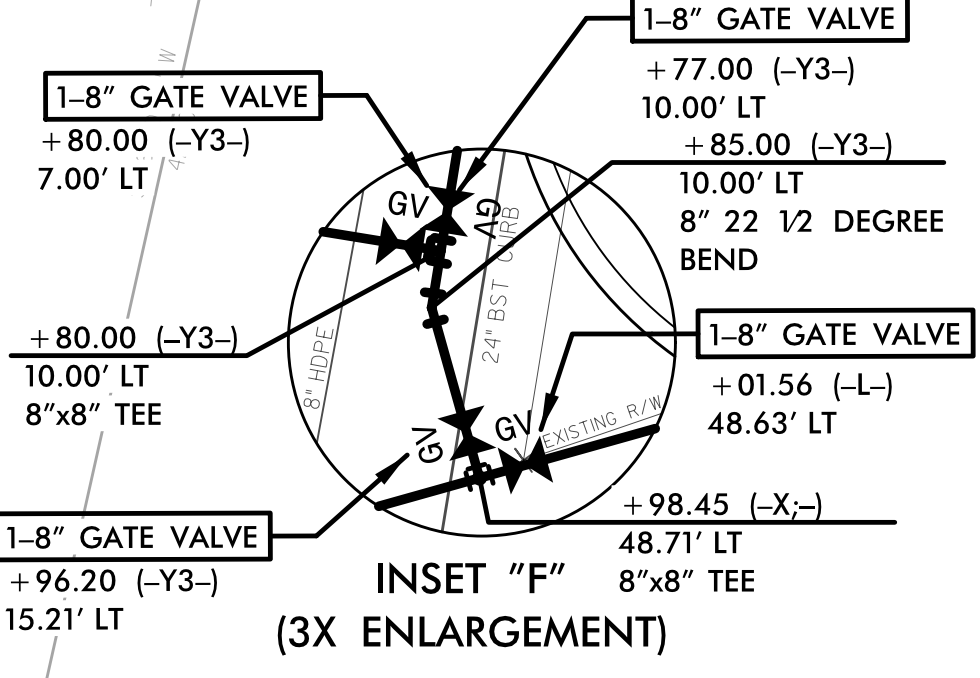
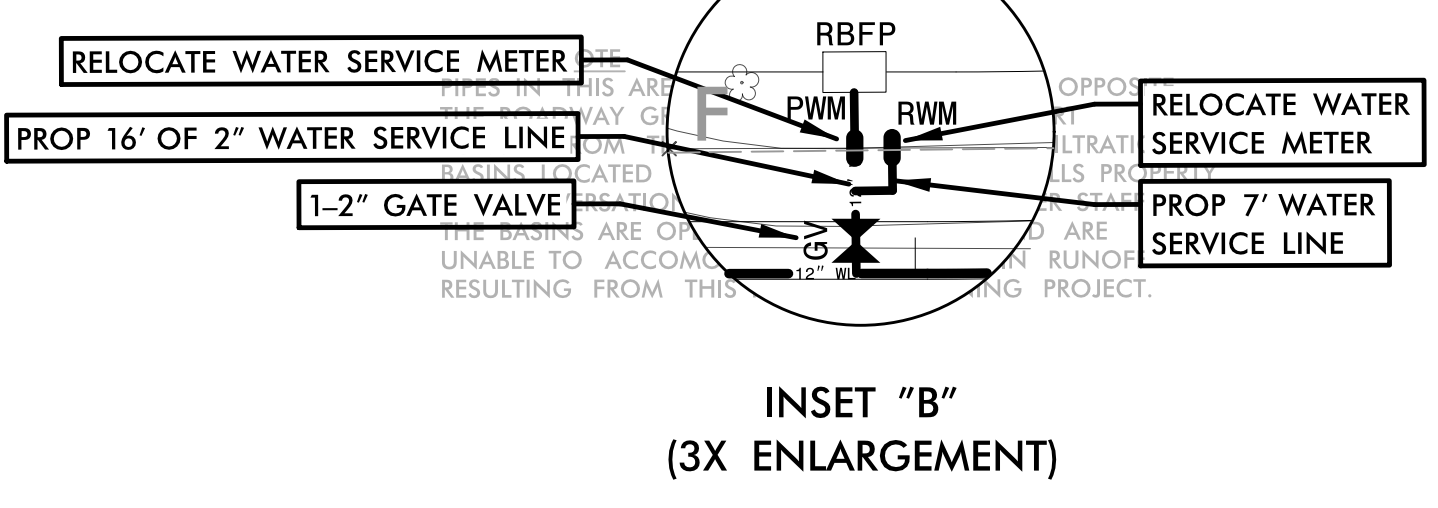
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 UTILITY CONSTRUCTION PLANS ONLY



NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 6,675 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

MATCHLINE -L- STA. 24+00.00
 SEE SHEET UC-4

MATCHLINE -L- STA. 38+00.00
 SEE SHEET UC-6



NOTES:
 1) 1" WATER LATERALS TO BE COPPER.
 2) FIRE HYDRANT LEGS TO BE 6" RJD1.
 3) ABANDONED FIRE HYDRANTS TO BE RETURNED TO PWC.
 4) REPLACE SERVICE LINES WITH SAME SIZE AS EXISTING SERVICE LINE.

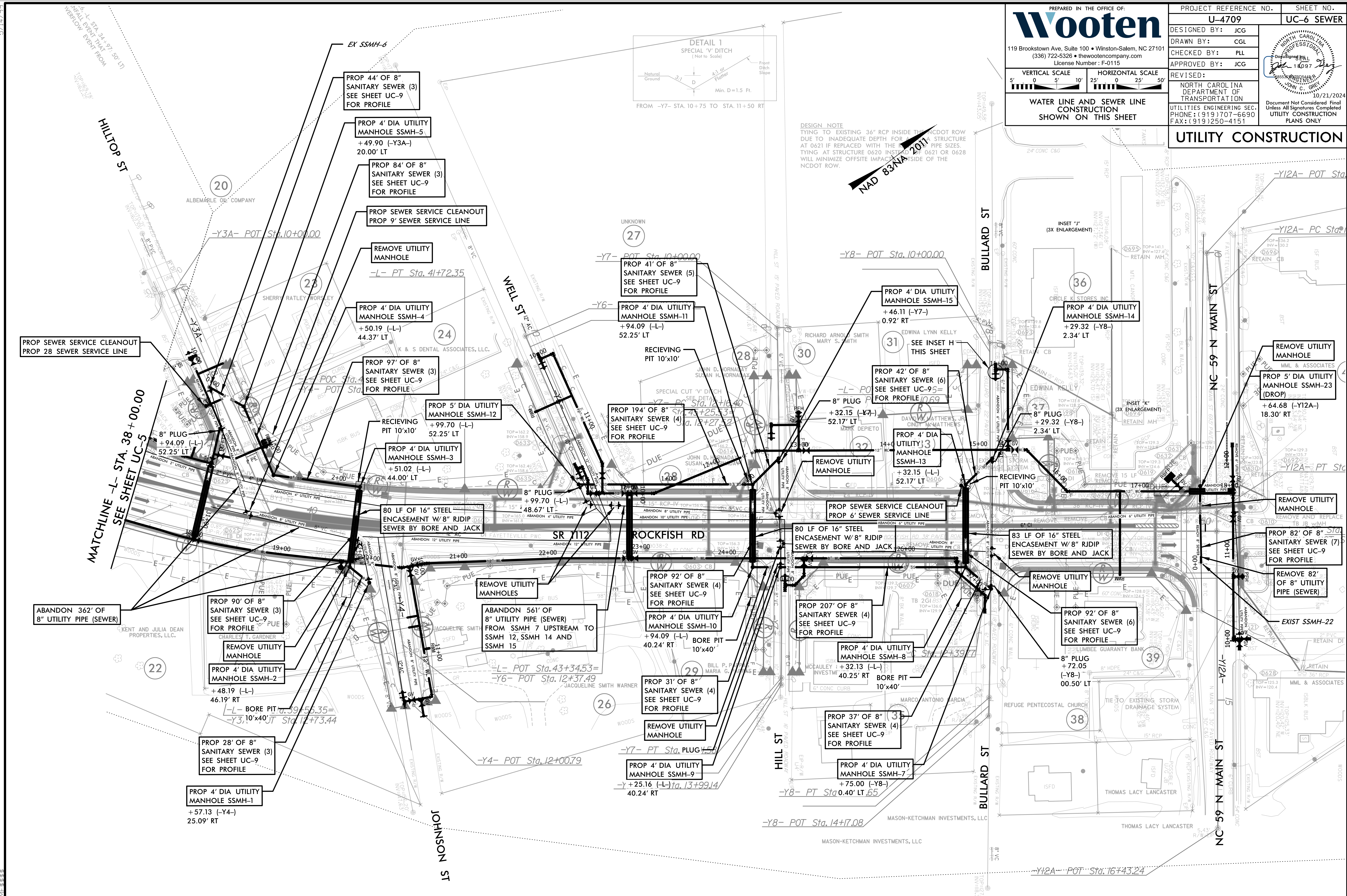
PREPARED IN THE OFFICE OF:

Wooten

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 (336) 722-5326 • thewootencompany.com
 License Number: F-0115

PROJECT REFERENCE NO.	UC-6 SEWER
SHEET NO.	U-4709
DESIGNED BY:	JCG
DRAWN BY:	CGL
CHECKED BY:	PLL
APPROVED BY:	JCG
REVISID:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
10/21/2024	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

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 UTILITY CONSTRUCTION PLANS ONLY



NOTE:
THERE ARE NO DUCTILE IRON FITTINGS THIS SHEET.

Wooten

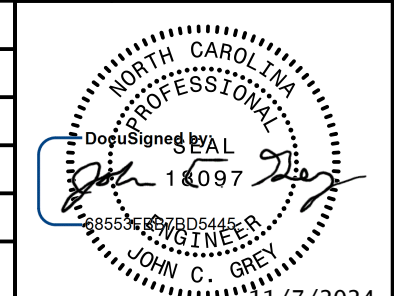
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(336) 722-5326 • thewootencompany.com
License Number: F-0115

VERTICAL SCALE
5' 0" 5' 10" 25' 0" 25' 50"

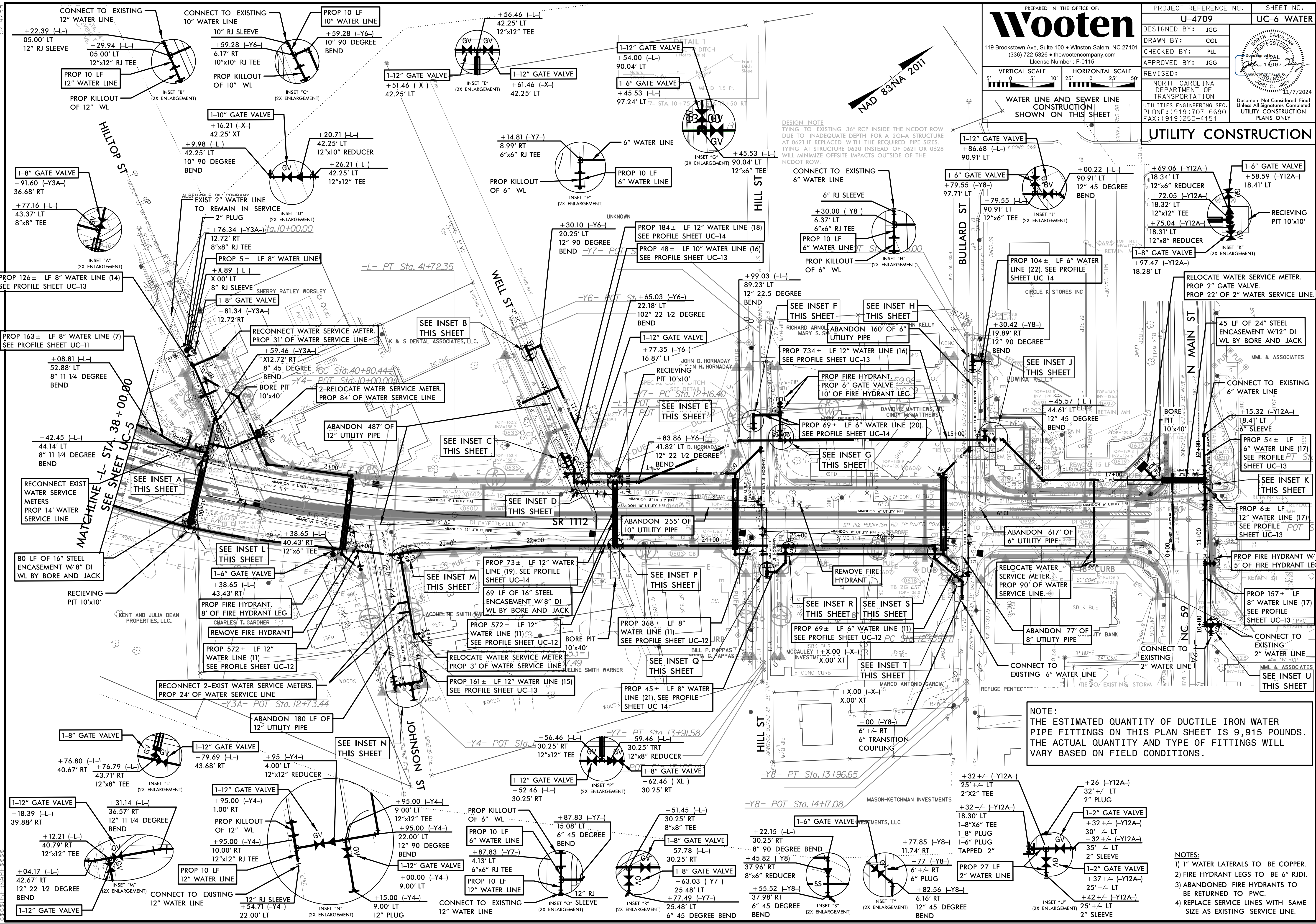
HORIZONTAL SCALE
25' 0" 25' 50"

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

PROJECT REFERENCE NO.	U-4709
SHEET NO.	UC-6 WATER
DESIGNED BY:	JCG
DRAWN BY:	CGL
CHECKED BY:	PLL
APPROVED BY:	JCG
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



UTILITY CONSTRUCTION



DESIGN NOTE
TYING TO EXISTING 36" RCP INSIDE THE NCDOT ROW DUE TO INADEQUATE DEPTH FOR A 2G-A STRUCTURE AT 0621 IF REPLACED WITH THE REQUIRED PIPE SIZES TYING AT STRUCTURE 0620 INSTEAD OF 0621 OR 0628 WILL MINIMIZE OFFSITE IMPACTS OUTSIDE OF THE NCDOT ROW.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 9,915 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

- NOTES:
- 1) WATER LATERALS TO BE COPPER.
 - 2) FIRE HYDRANT LEGS TO BE 6" RJD.
 - 3) ABANDONED FIRE HYDRANTS TO BE RETURNED TO PWC.
 - 4) REPLACE SERVICE LINES WITH SAME SIZE AS EXISTING SERVICE LINE.

PREPARED IN THE OFFICE OF:

Wooten

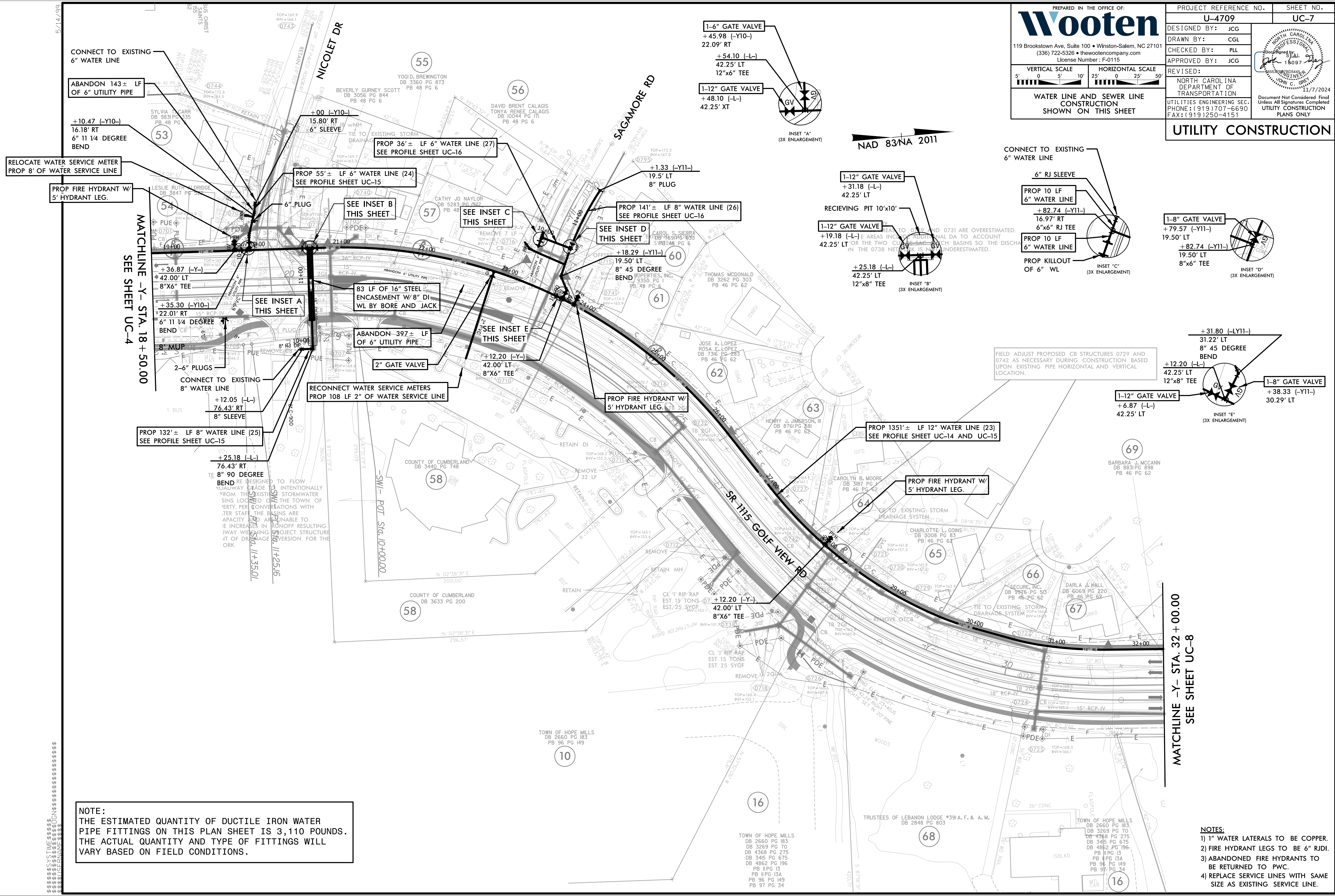
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 (336) 722-5326 • thewootencompany.com
 License Number: F-0115

VERTICAL SCALE: 1" = 5'
 HORIZONTAL SCALE: 1" = 25'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4709	UC-7
DESIGNED BY: JCG	
DRAWN BY: CGL	
CHECKED BY: PLL	
APPROVED BY: JCG	REVISIONS:
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION



NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3,110 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

- NOTES:**
- 1" WATER LATERALS TO BE COPPER.
 - FIRE HYDRANT LEGS TO BE 6" RIDI.
 - ABANDONED FIRE HYDRANTS TO BE RETURNED TO PWC.
 - REPLACE SERVICE LINES WITH SAME SIZE AS EXISTING SERVICE LINE.

PREPARED IN THE OFFICE OF:

Wooten

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 (336) 722-5326 • thewootencompany.com
 License Number: F-0115

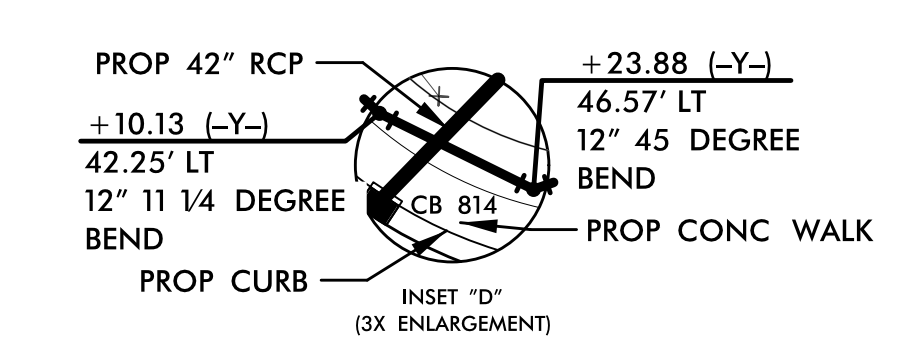
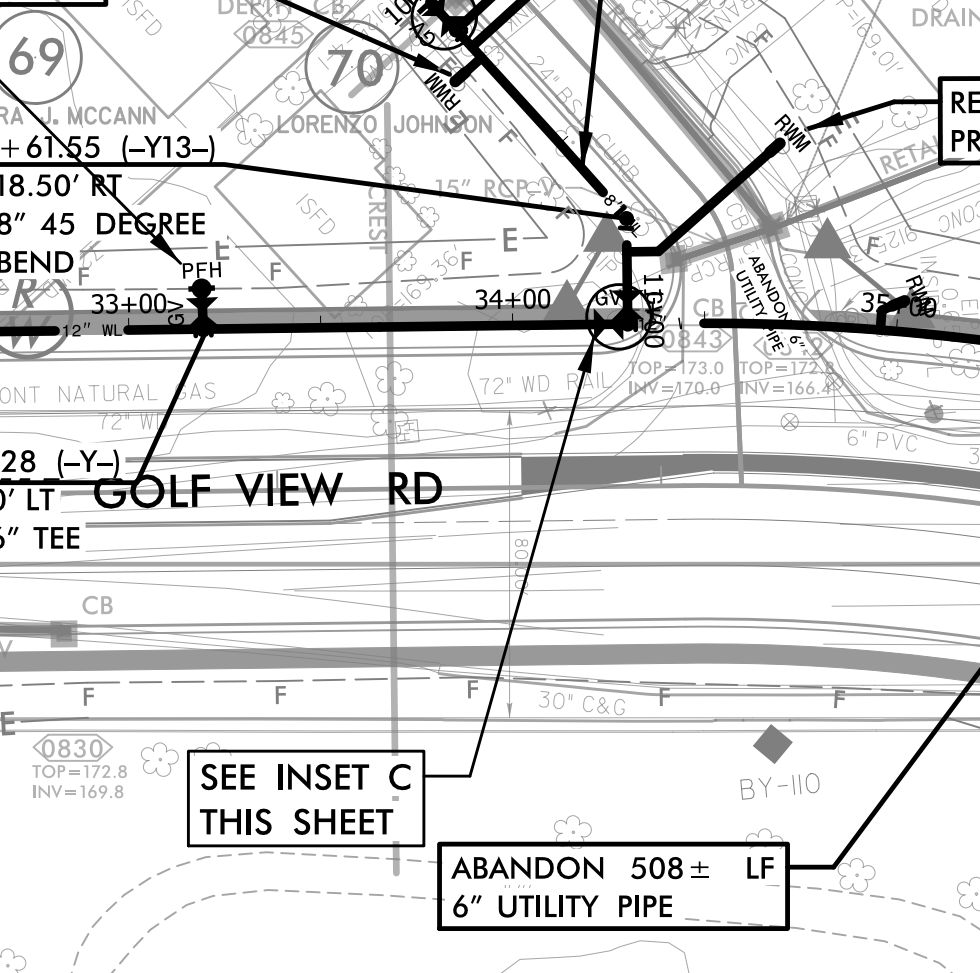
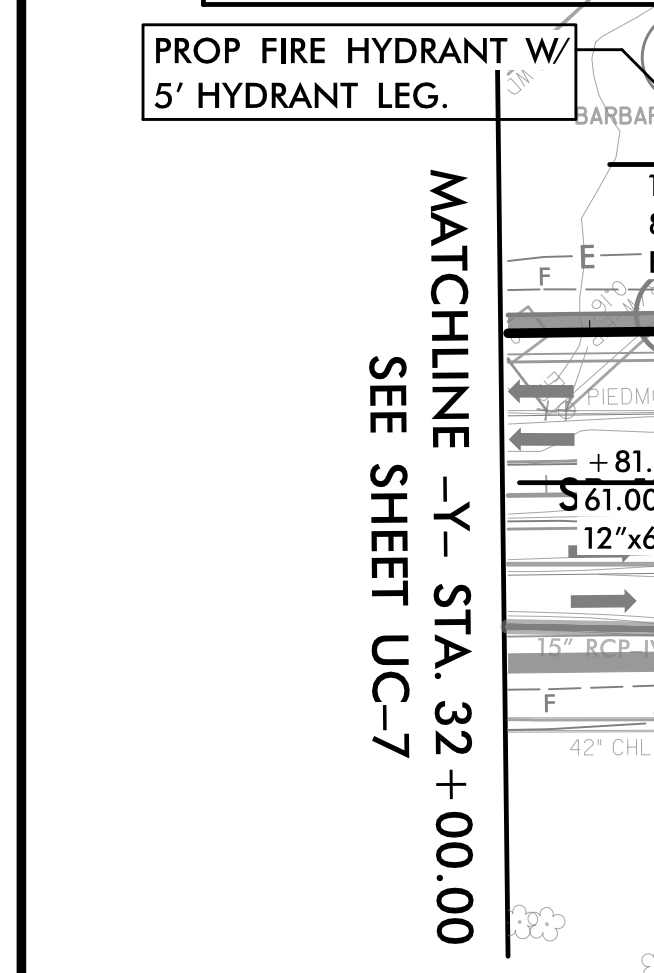
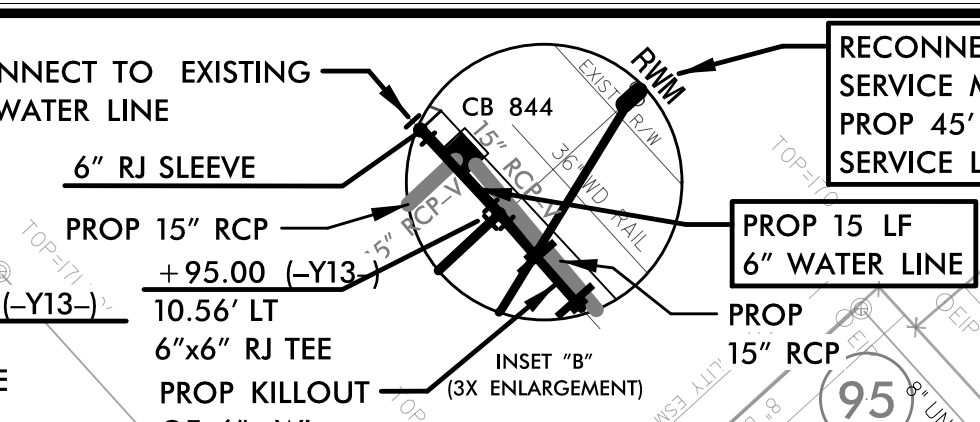
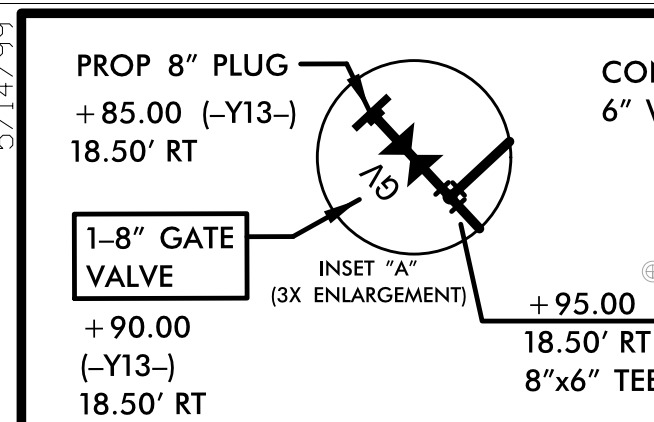
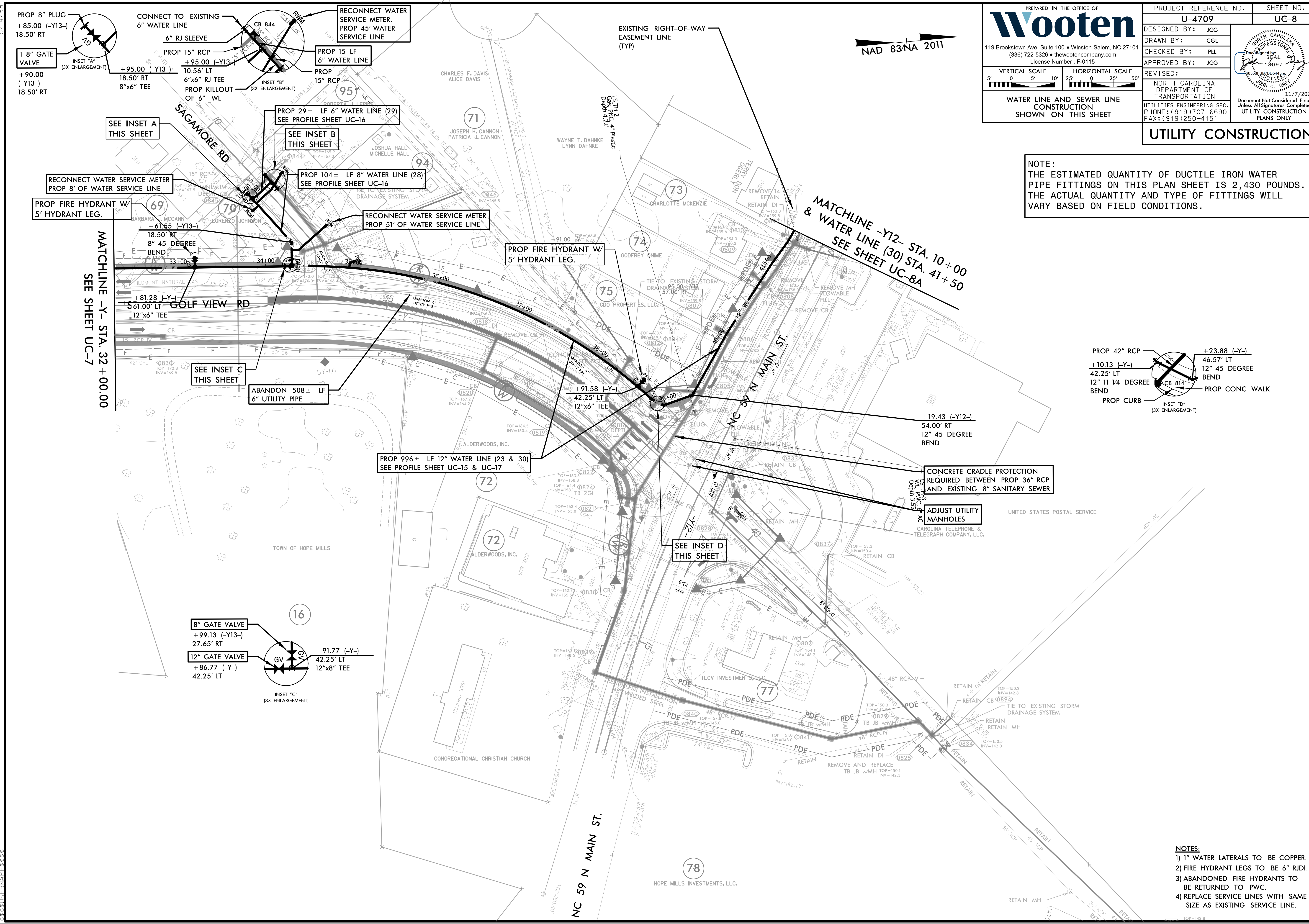
VERTICAL SCALE: 1" = 5'
 HORIZONTAL SCALE: 1" = 25'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4709	UC-8
DESIGNED BY: JCG	
DRAWN BY: CGL	
CHECKED BY: PLL	
APPROVED BY: JCG	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,430 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



- NOTES:**
- 1" WATER LATERALS TO BE COPPER.
 - FIRE HYDRANT LEGS TO BE 6" RJD.
 - ABANDONED FIRE HYDRANTS TO BE RETURNED TO PWC.
 - REPLACE SERVICE LINES WITH SAME SIZE AS EXISTING SERVICE LINE.

5/14/24

PREPARED IN THE OFFICE OF:

Wooten

119 Brookstown Ave, Suite 100 • Winston-Salem, NC 27101
 (336) 722-5326 • thewootencompany.com
 License Number: F-0115

PROJECT REFERENCE NO. **U-4709** SHEET NO. **UC-9**

DESIGNED BY: JCG
 DRAWN BY: CGL
 CHECKED BY: PLL
 APPROVED BY: JCG

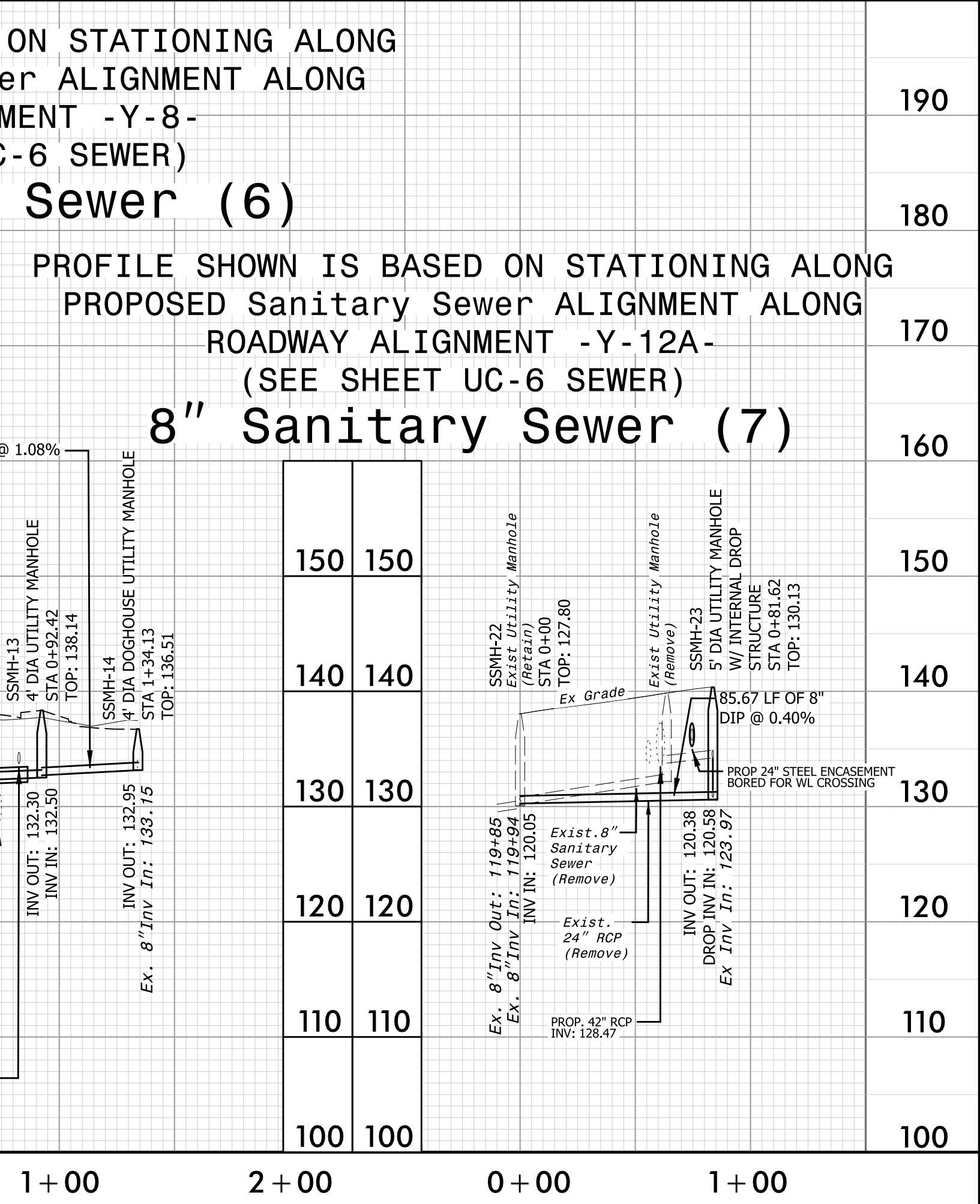
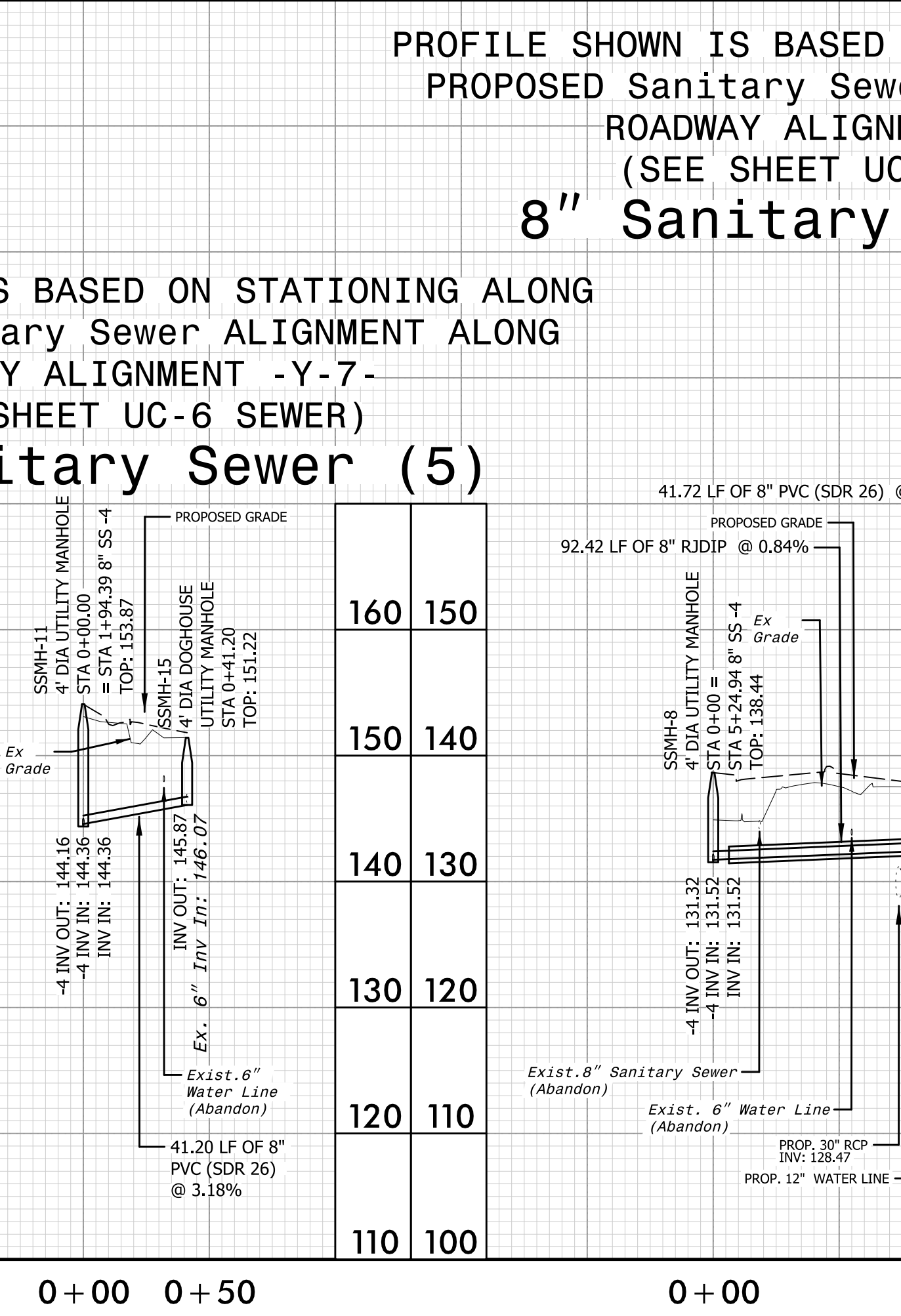
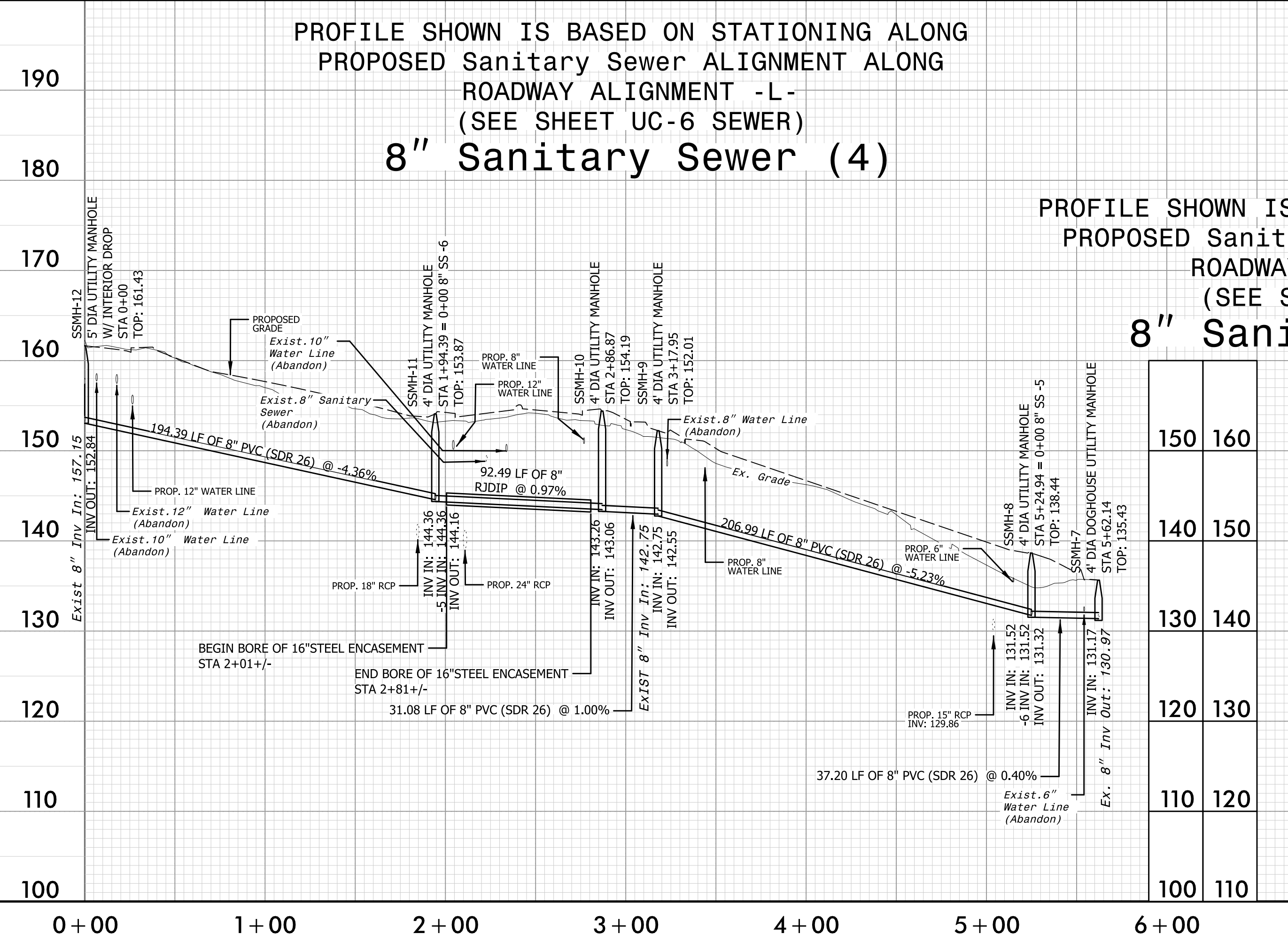
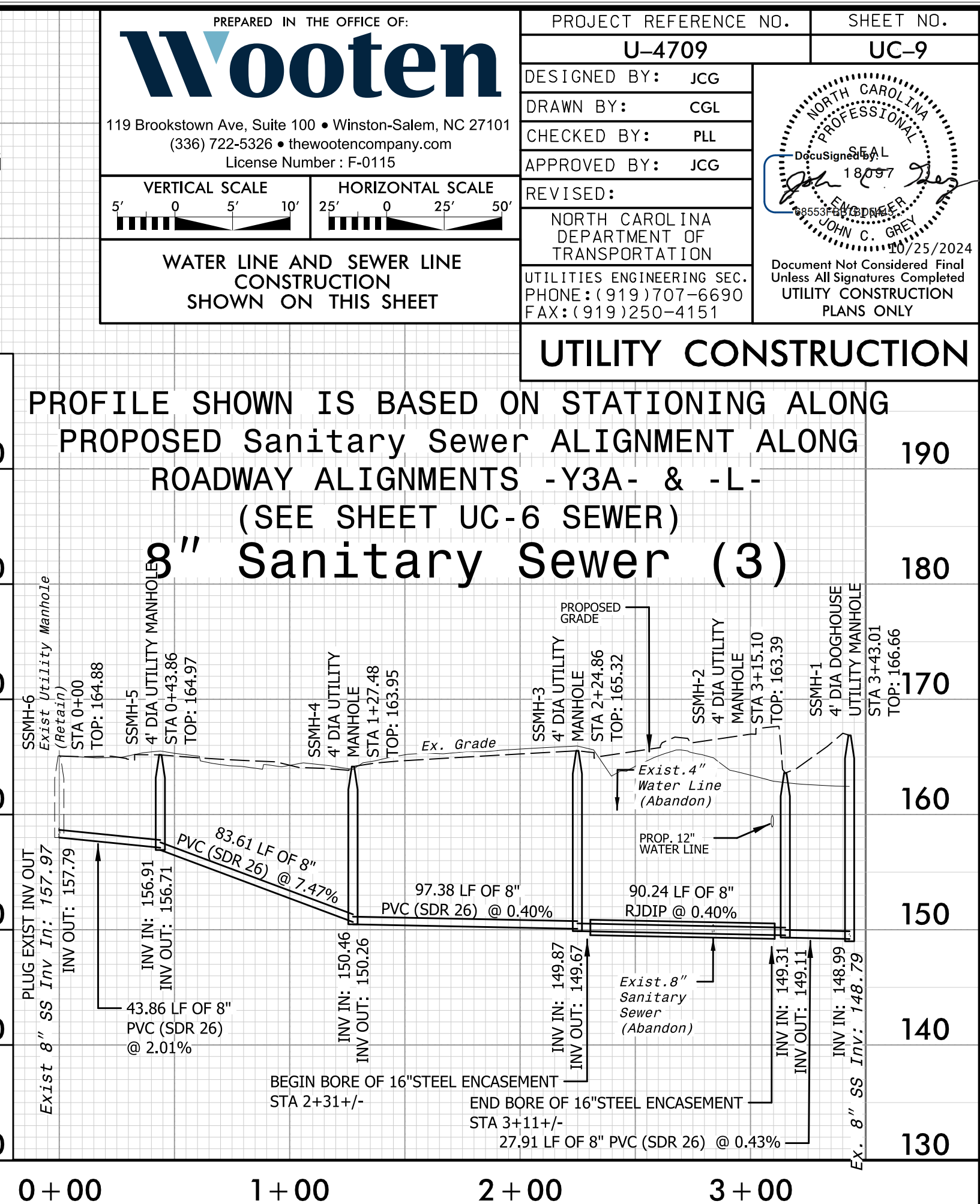
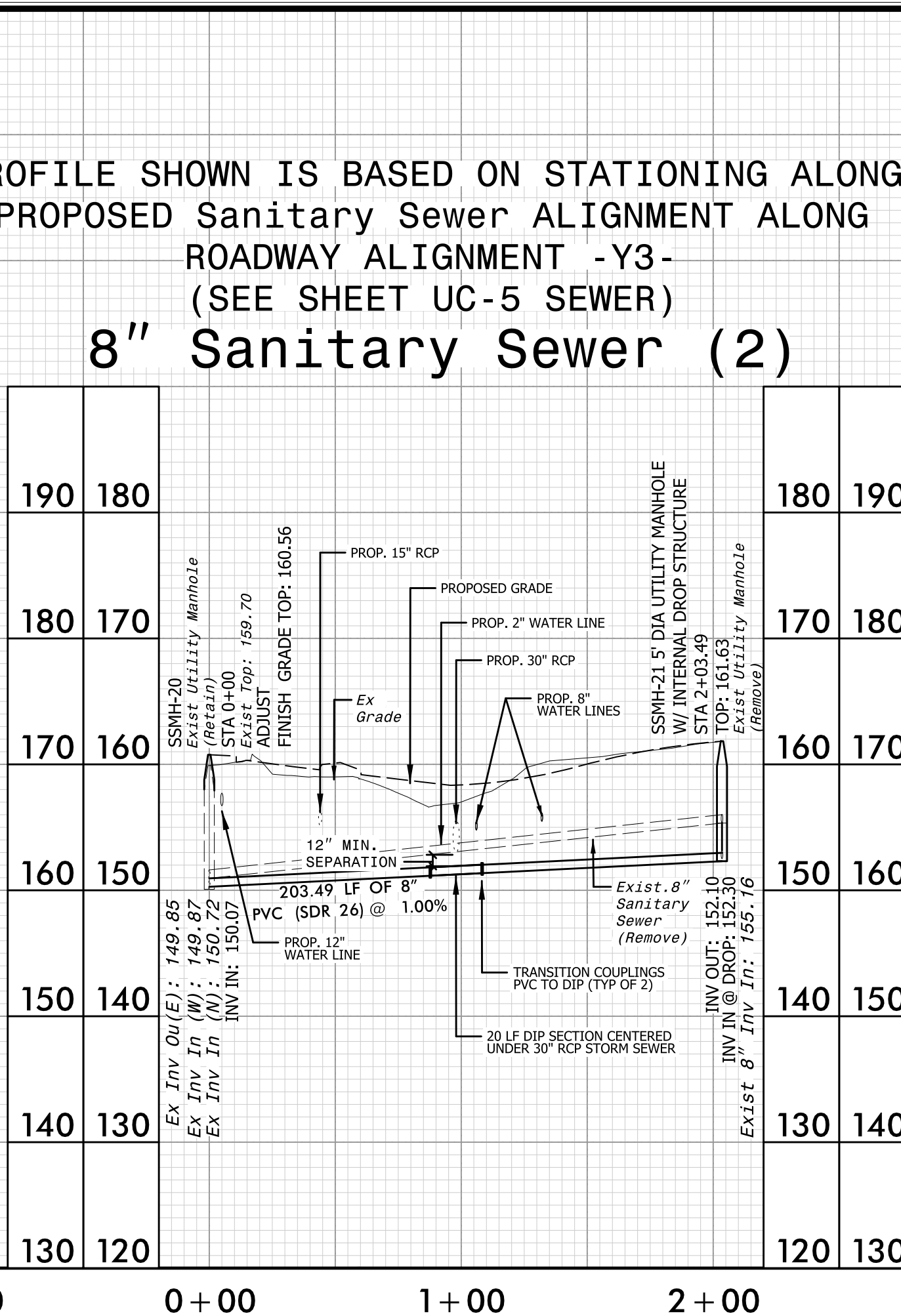
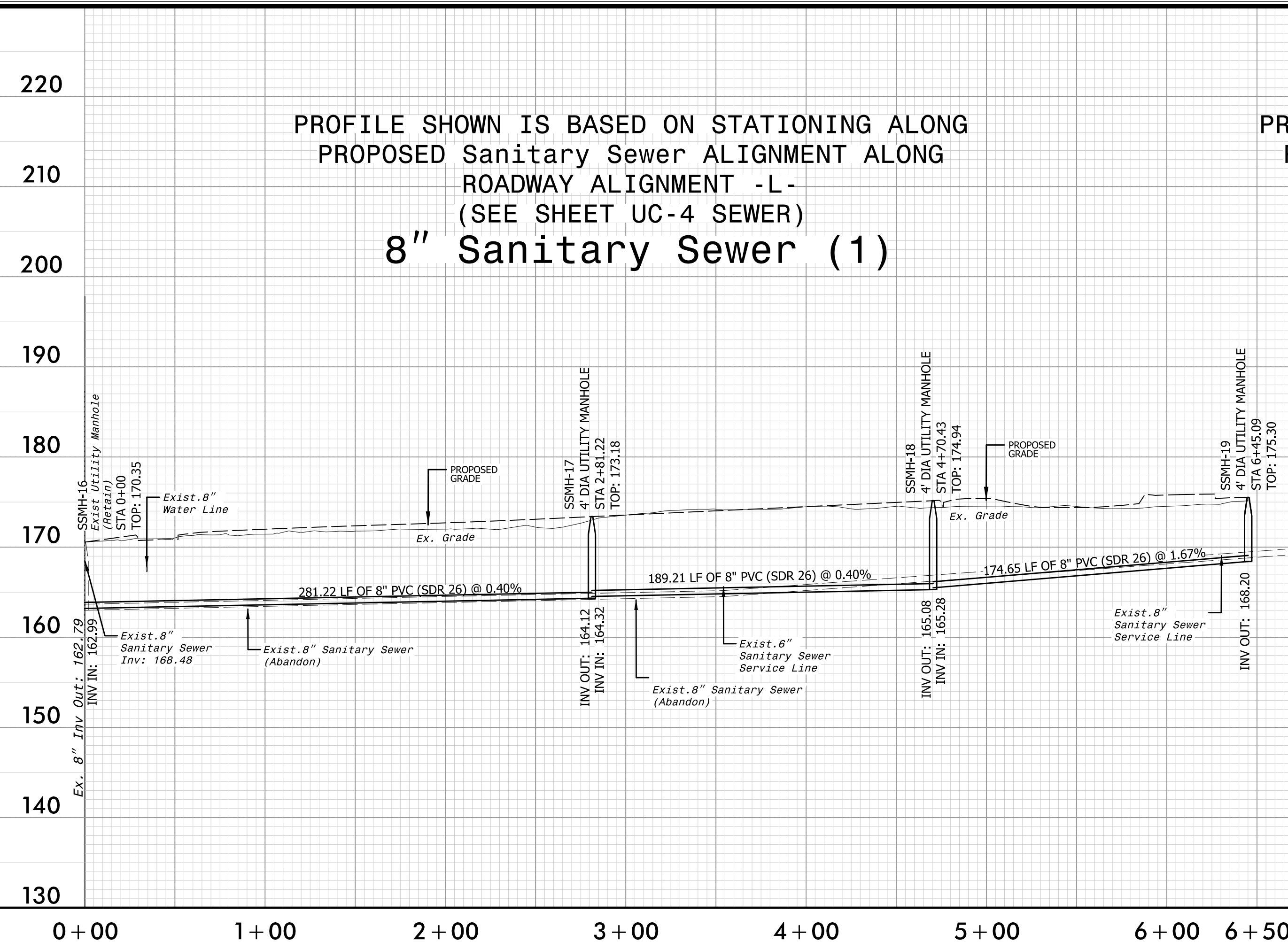
REVISID:

VERTICAL SCALE: 5' = 10'
 HORIZONTAL SCALE: 25' = 100'

WATER LINE AND SEWER LINE CONSTRUCTION SHOWN ON THIS SHEET

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 UTILITIES ENGINEERING SEC.
 PHONE: (919) 707-6690
 FAX: (919) 250-4151

Document Not Considered Final Unless All Signatures Completed
 UTILITY CONSTRUCTION PLANS ONLY



5/14/24

5/14/2019

PREPARED IN THE OFFICE OF:
Wooten
119 Brookstown Ave, Suite 100 • Winston-Salem, NC 27101
(336) 722-5326 • thewootencompany.com
License Number: F-0115

PROJECT REFERENCE NO. **U-4709**
SHEET NO. **UC-10**

DESIGNED BY: JCG
DRAWN BY: CGL
CHECKED BY: PLL
APPROVED BY: JCG

REVISER:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

SEAL
12/28/2017
C. GREY
8/2/2024
Document Not Considered Final
Unless All Signatures Completed
UTILITY CONSTRUCTION PLANS ONLY

VERTICAL SCALE: 5' = 1"
HORIZONTAL SCALE: 25' = 1"

UTILITY CONSTRUCTION
WATER LINE AND SEWER LINE
CONSTRUCTION
SHOWN ON THIS SHEET

