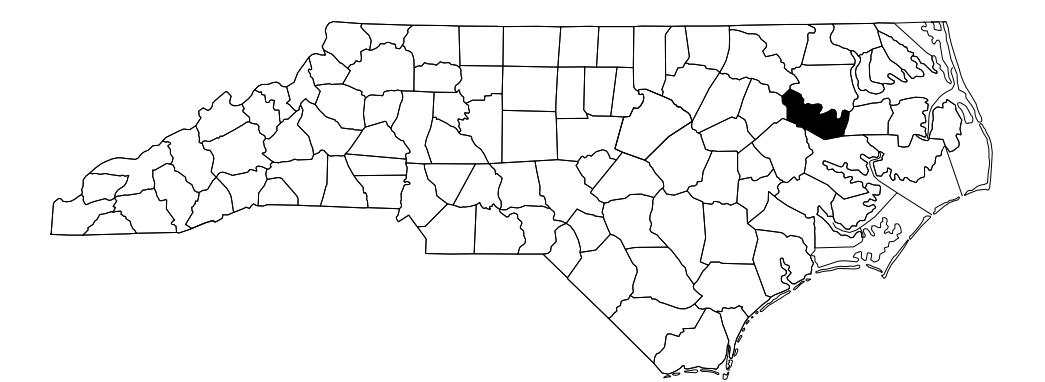


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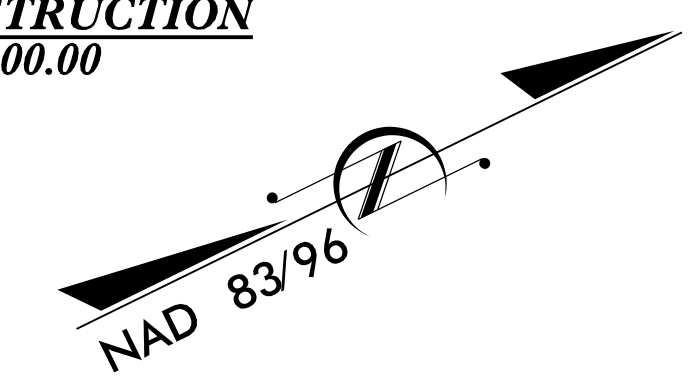
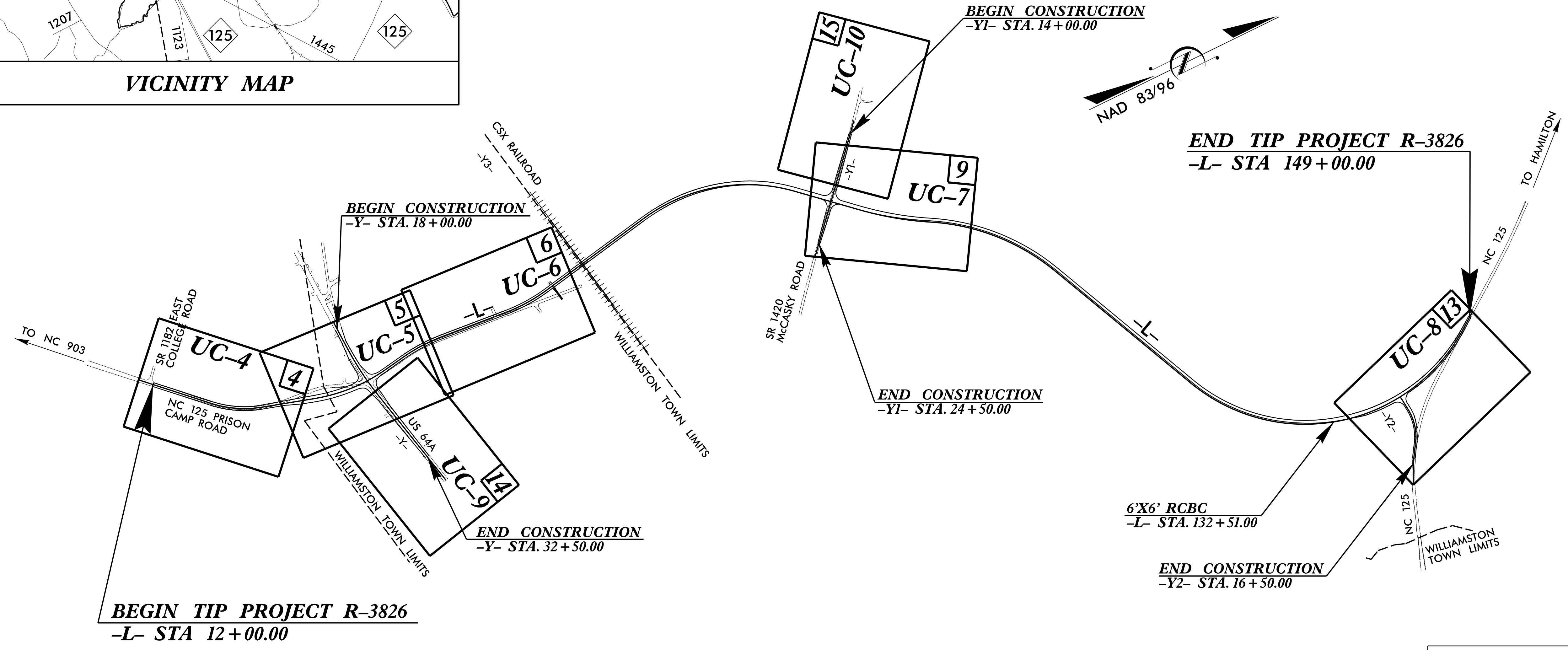
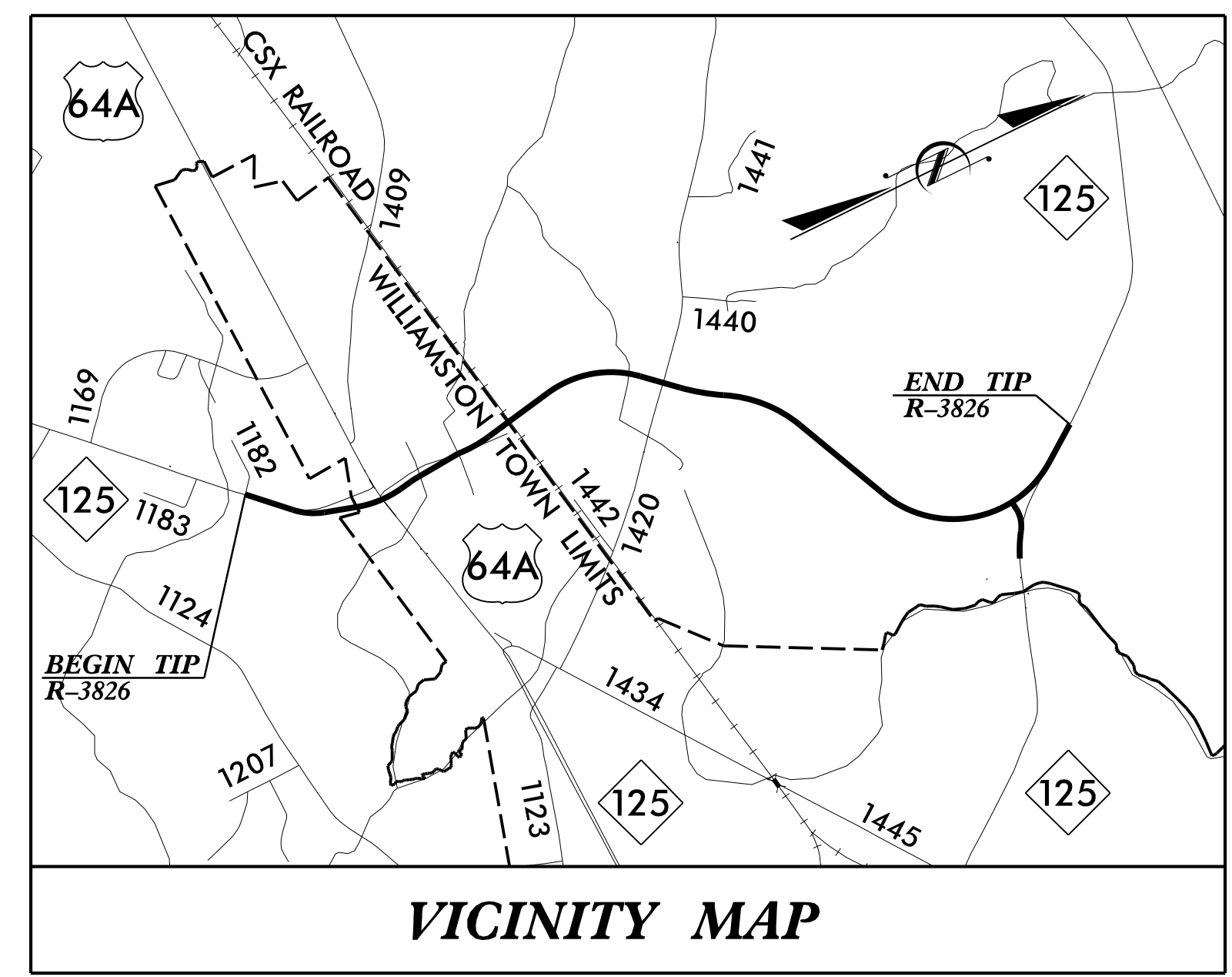


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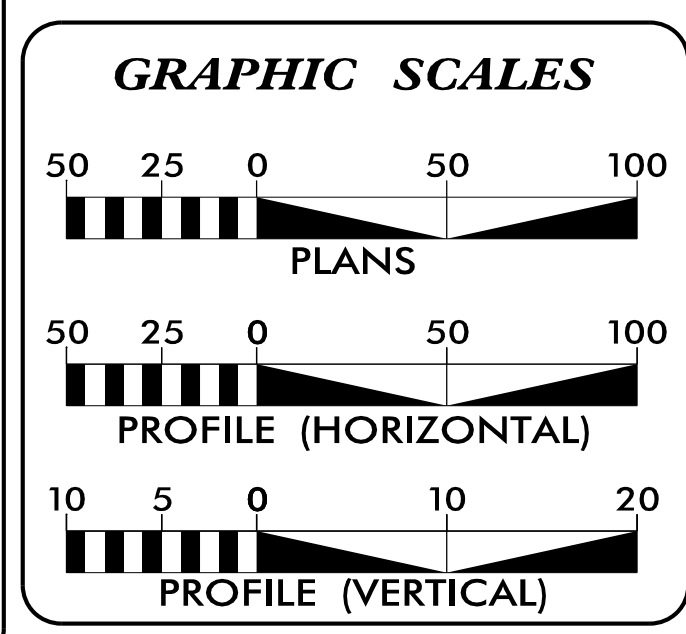
UTILITY CONSTRUCTION PLANS MARTIN COUNTY

**LOCATION: NC 125 WILLIAMSTON BYPASS FROM SR 1182
(EAST COLLEGE ROAD) TO NC 125 NORTHWEST
OF WILLIAMSTON**

TYPE OF WORK: WATER & SANITARY SEWER RELOCATIONS



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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3C	DETAILS
UC-4 THRU UC-10	UTILITY CONSTRUCTION SHEETS
UC-11 THRU UC-13	PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

(A) WATER - TOWN OF WILLIAMSTON
(B) SEWER - TOWN OF WILLIAMSTON

PREPARED IN THE OFFICE OF:

HINDE ENGINEERING
License No. C-2639
401 Harrison Oaks Blvd., Suite 145 Cary, NC 27513
Ph. (919) 653-0001

Clint Stevens, PE UTILITIES PROJECT MANAGER
Corey Bousquet, PE UTILITIES PROJECT ENGINEER
Nathan Arnold UTILITIES PROJECT DESIGNER

SEAL

DIVISION OF HIGHWAYS UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 707-6690
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Bo Hemphill, PE UTILITIES REGIONAL ENGINEER
Ashley Cox UTILITIES ENGINEER
Amy Dupree UTILITIES AREA COORDINATOR
UTILITIES COORDINATOR

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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	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
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	

NOTE
PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

*For Existing Utilities
Utility Line Drawn from Record

Designated Utility Line

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UTILITY CONSTRUCTION

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

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 2012.
2. THE EXISTING UTILITIES BELONG TO THE TOWN OF WILLIAMSTON PUBLIC WORKS DEPARTMENT.
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 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 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.

LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM

PROJECT SPECIFIC NOTES:

1. CONTRACTOR SHALL CONNECT ALL WATER LINES, SEWER LINES AND SERVICE CONNECTIONS USING NECESSARY FITTINGS.
2. CONCRETE THRUST BLOCKING SHALL BE USED ON EXISTING WATER LINES AND FORCE MAIN SEWER LINES AT THE PROPOSED RELOCATION TIE-IN POINTS.
3. ALL PROPOSED WATER MAINS, SEWER MAINS AND HYDRANT LEGS CROSSING UNDER EXISTING OR PROPOSED NCDOT ROADWAYS SHALL BE DUCTILE IRON PIPE.
4. ALL WATER SERVICE LINES SHALL BE POLYETHYLENE (PE) PIPE OR TUBING WITH APPROPRIATE STAINLESS STEEL INSERTS, COMPRESSION UNIONS, CORPORATION AND CURB STOPS.
5. ALL BACKFLOW PREVENTERS ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.
6. EXTEIOR DAMP-PROOF COATING SHALL BE APPLIED TO ALL PROPOSED SEWER MANHOLES. DAMP-PROOF COATING FOR EXTERIOR OF MANHOLES SHALL BE BITUMINOUS COAL TAR TNEMAC 46-465 HB TNEMECCOL, SUPERSERVICE BLACK BY COPPERS, AMERON OR APPROVED EQUAL.
7. FOR ALL SANITARY SEWER MANHOLES OVER 7' DEEP, CONTRACTOR SHALL INSTALL PRE-CAST EXTENDED BASE MANHOLES WITH DAMP-PROOF COATING.
8. ALL ASBESTOS CONCRETE WATER LINES TO BE ABANDONED WITHIN THE PROJECT CONSTRUCTION LIMITS AND AS SHOWN ON THE UTILITY CONSTRUCTION PLANS SHALL BE REMOVED.
9. CONTRACTOR IS REQUIRED TO CONTACT KERRY SPIVEY, PUBLIC WORKS DIRECTOR OF THE TOWN OF WILLIAMSTON, AT (252) 792-1024 AT LEAST 1 WEEK PRIOR TO ANY WATER AND/OR SEWER CONSTRUCTION ON TOWN OF WILLIAMSTON FACILITIES.

UTILITY CONSTRUCTION

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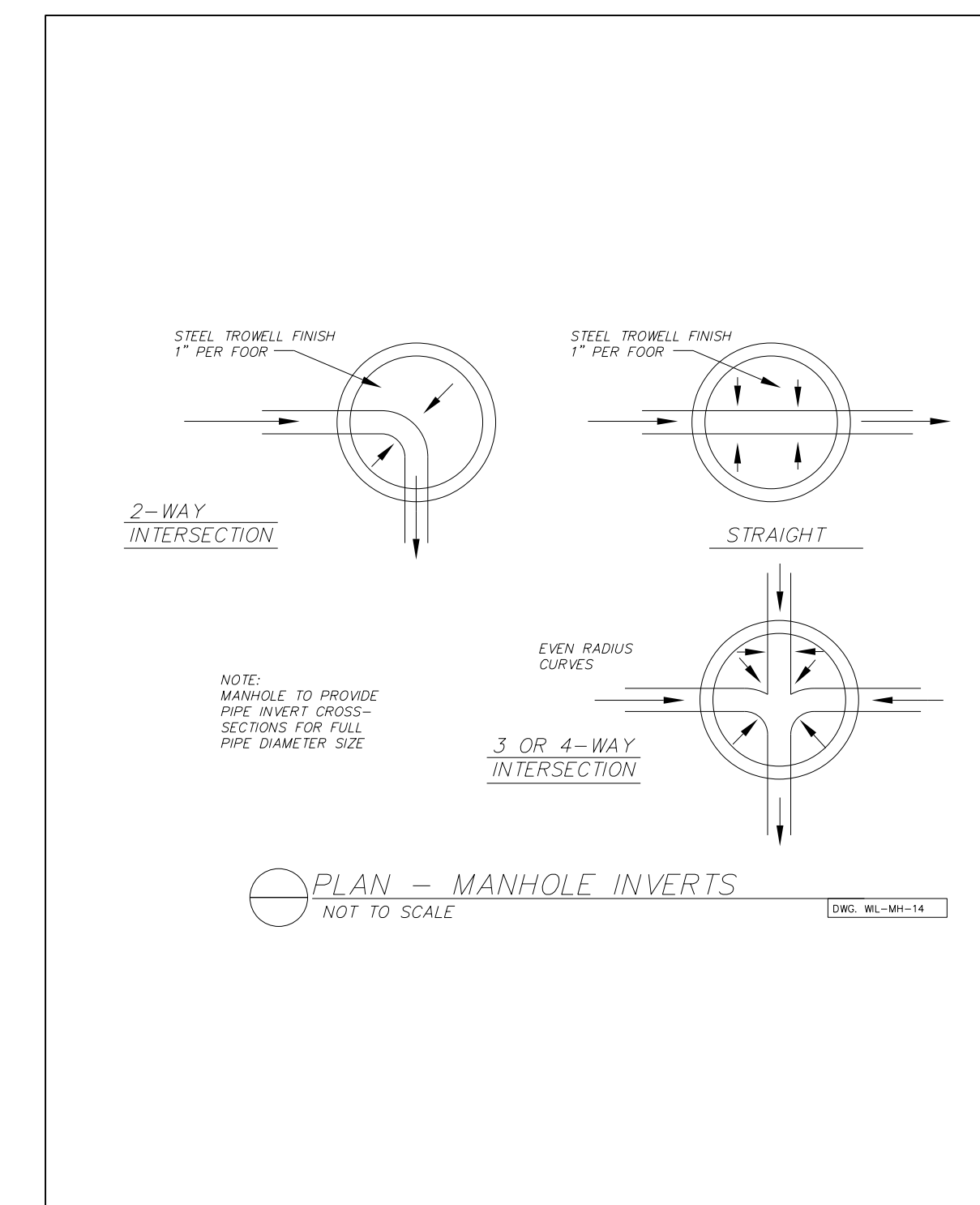
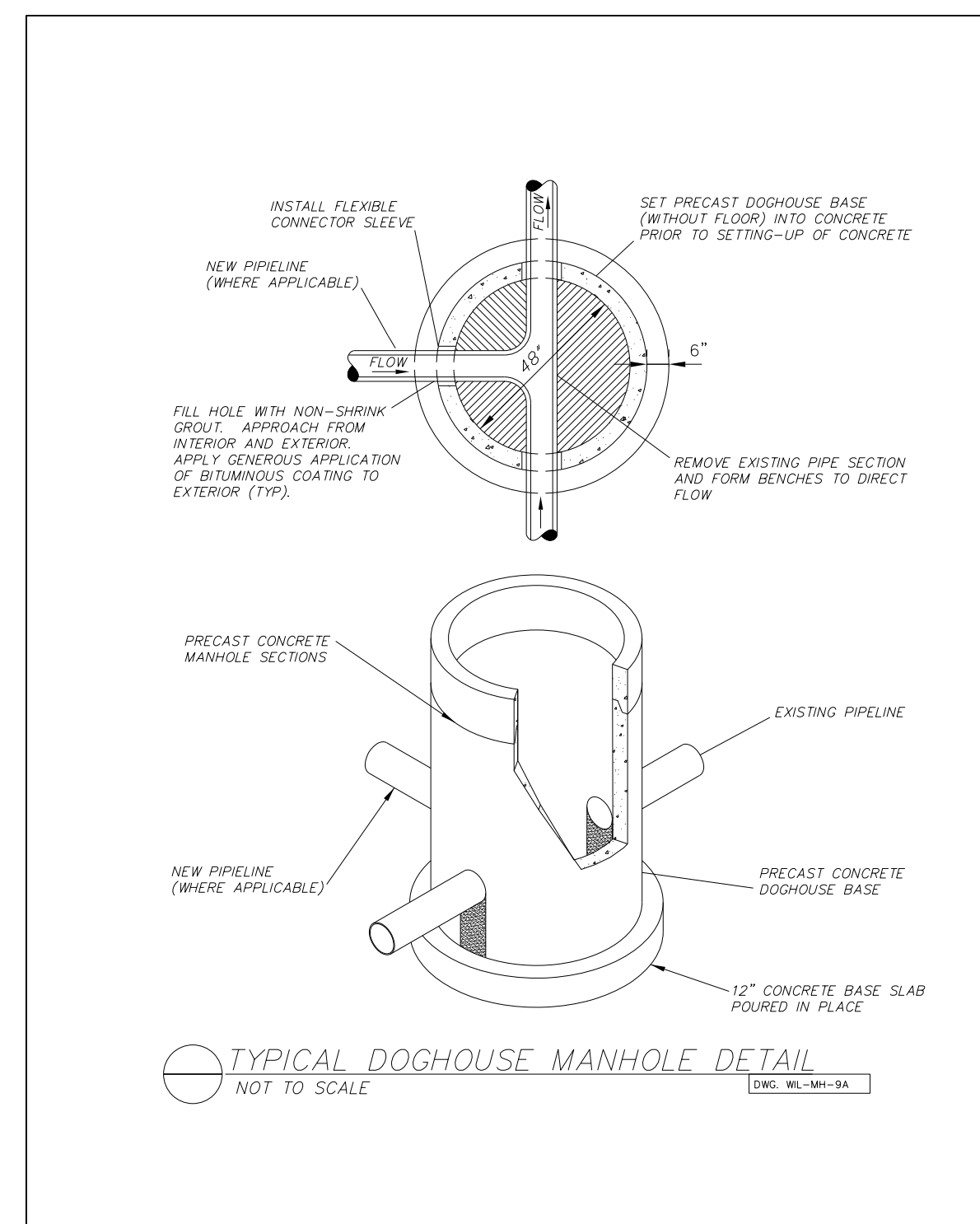
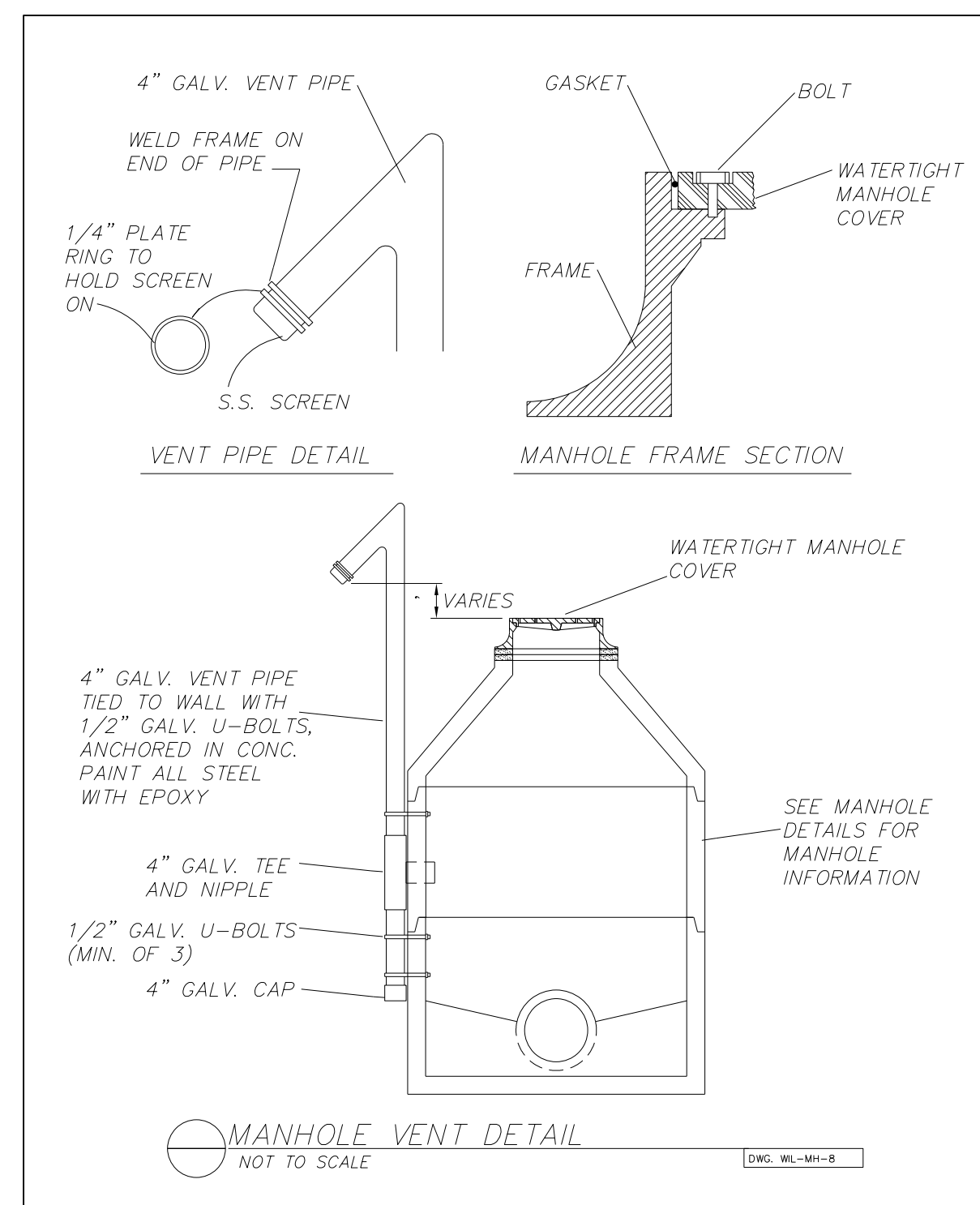
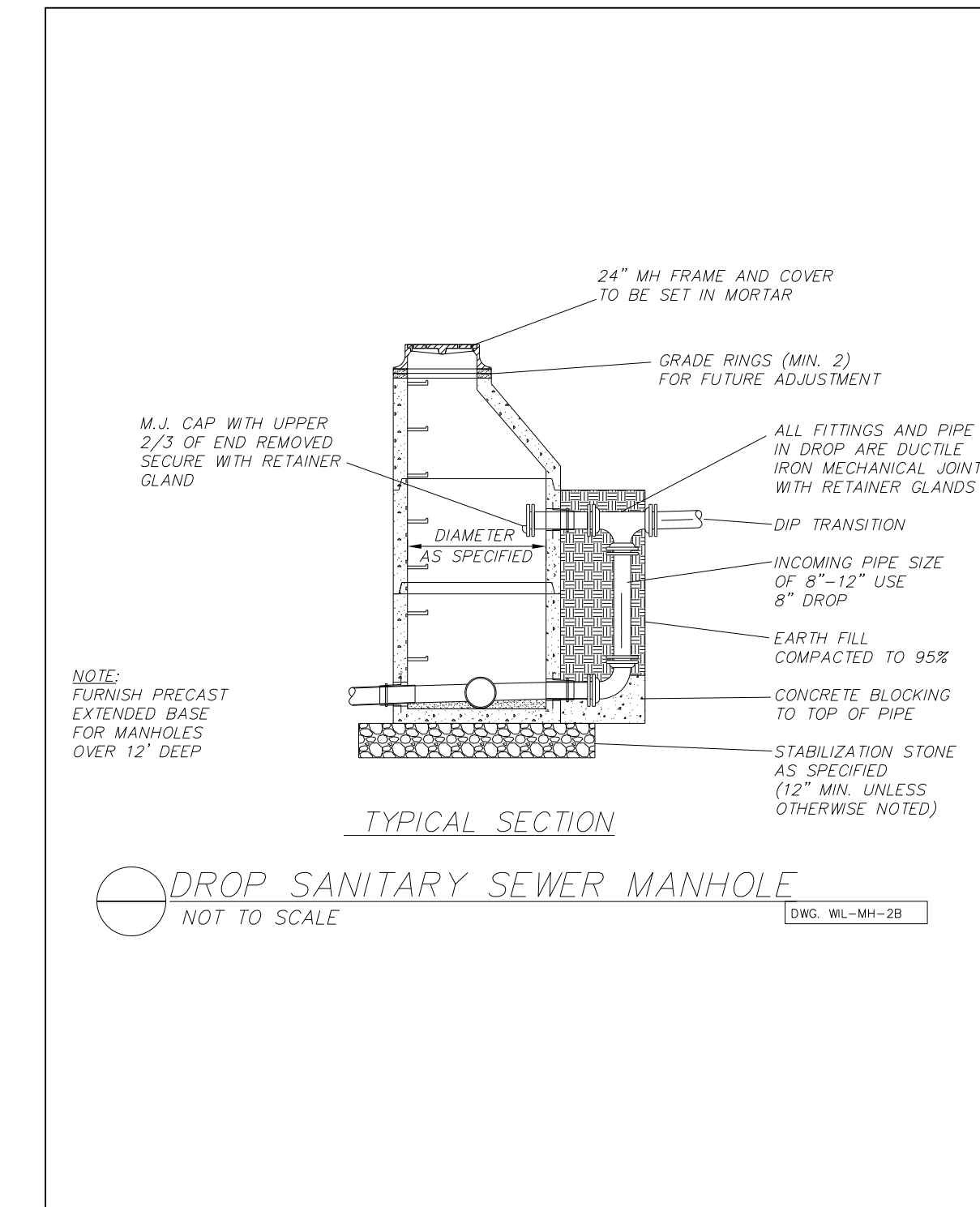
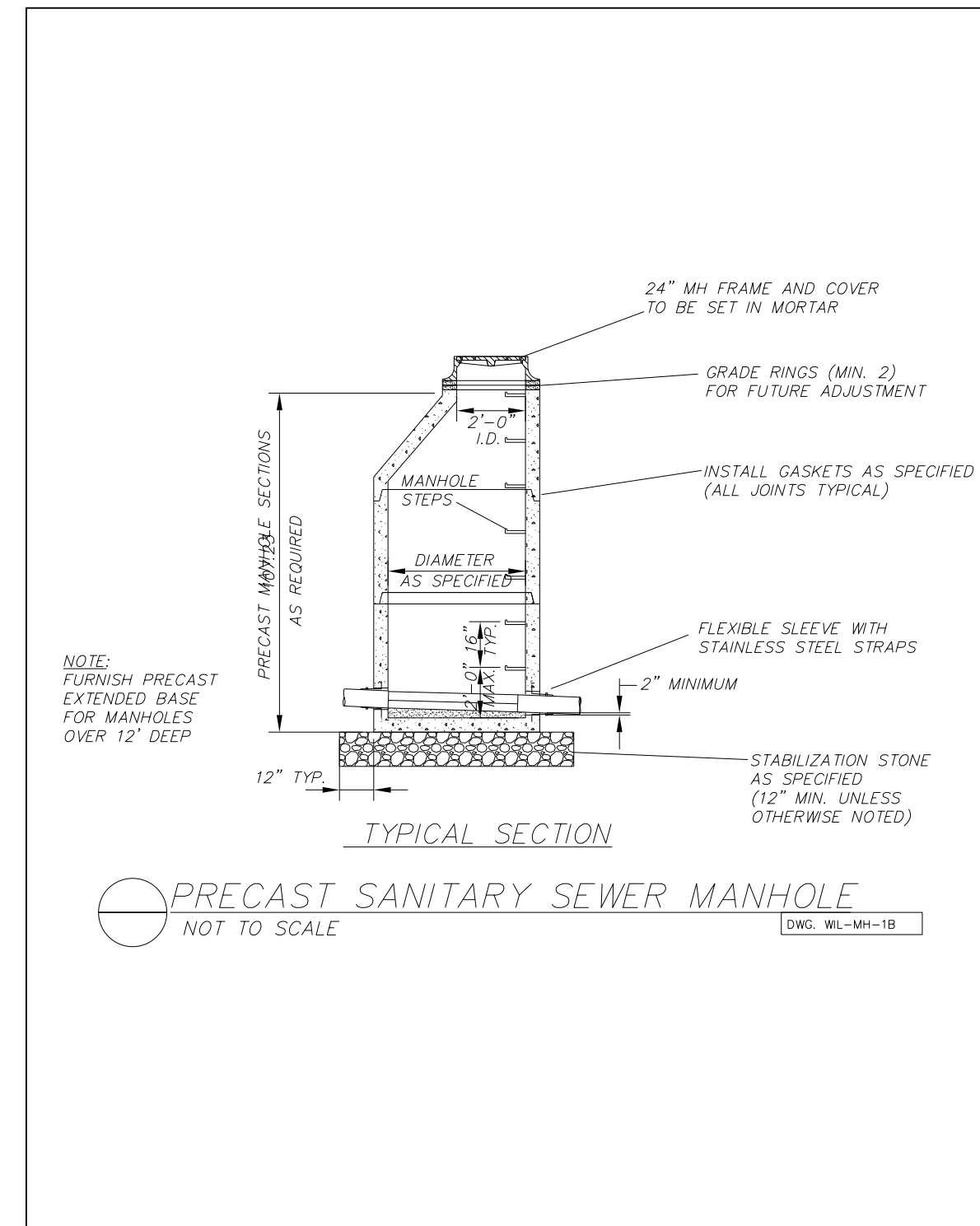
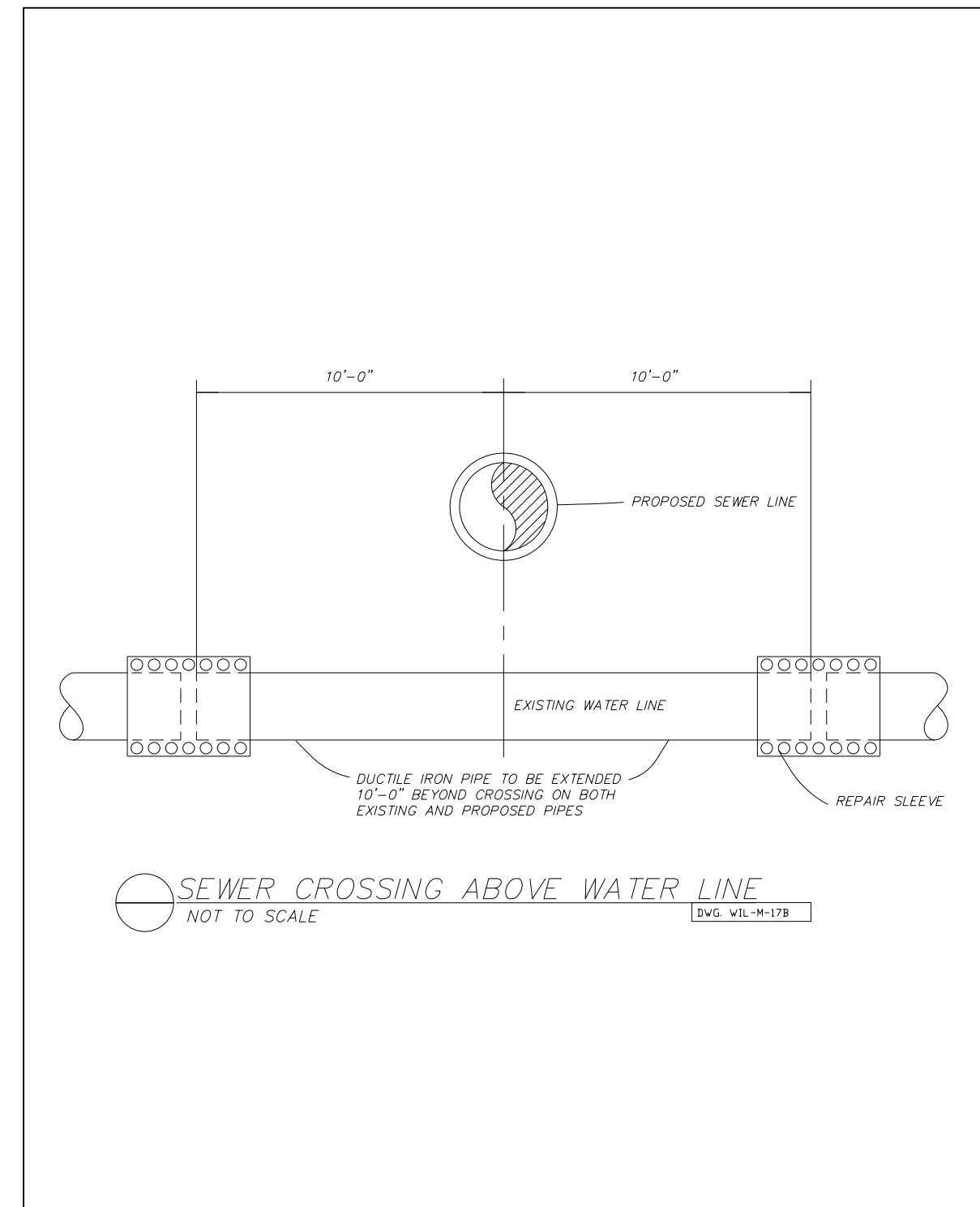
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

OWNER'S TYPICAL DETAILS

UTILITY CONSTRUCTION



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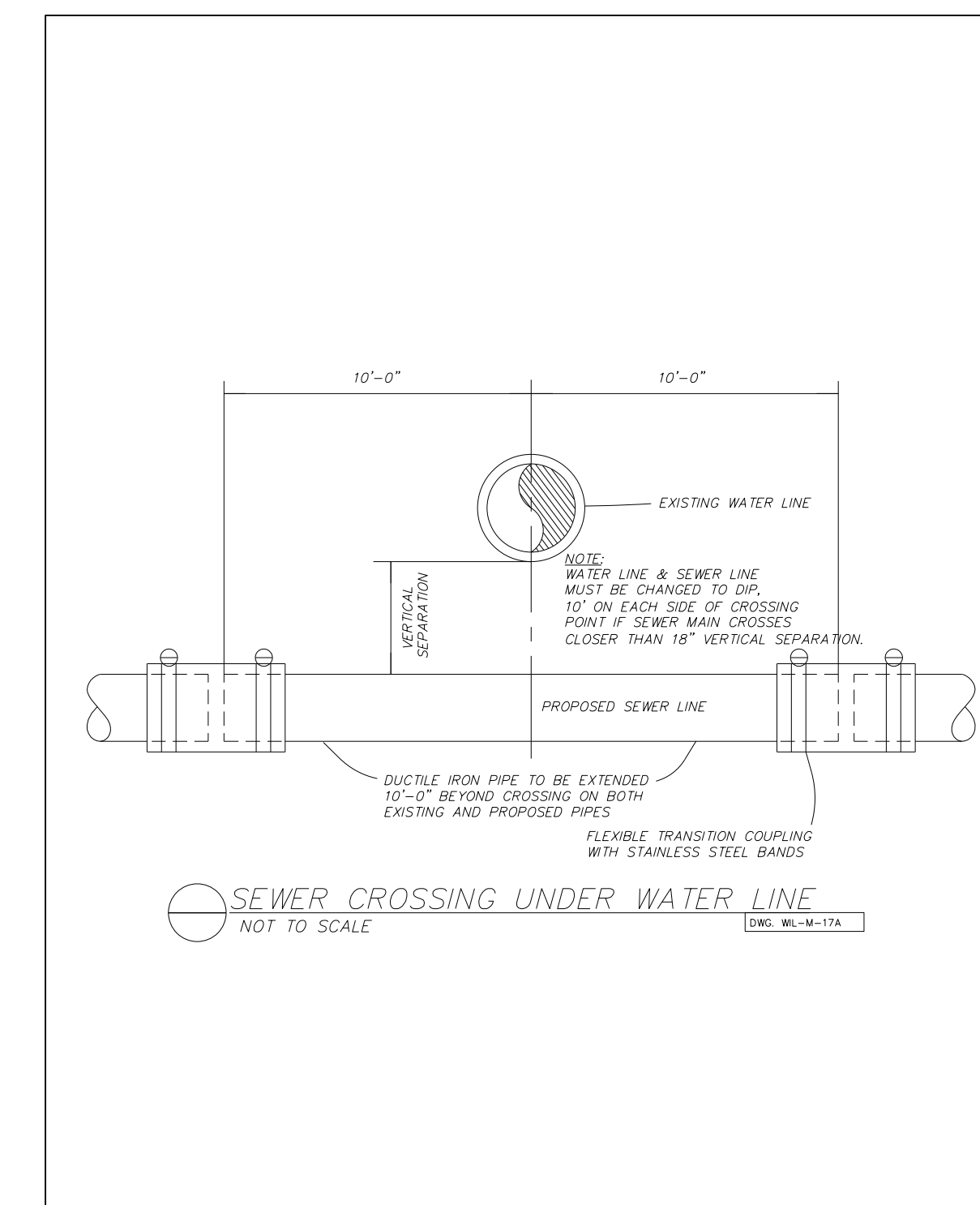
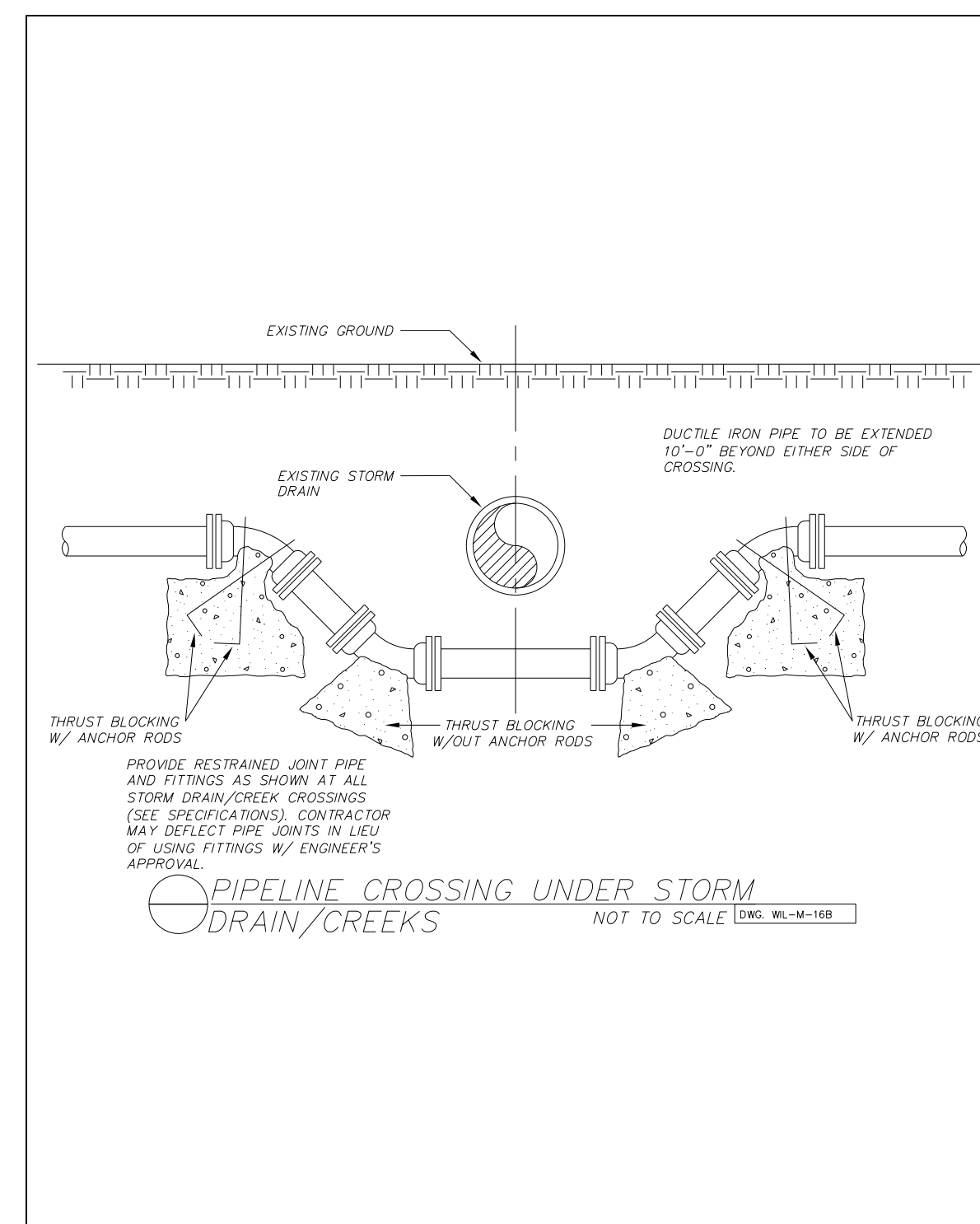
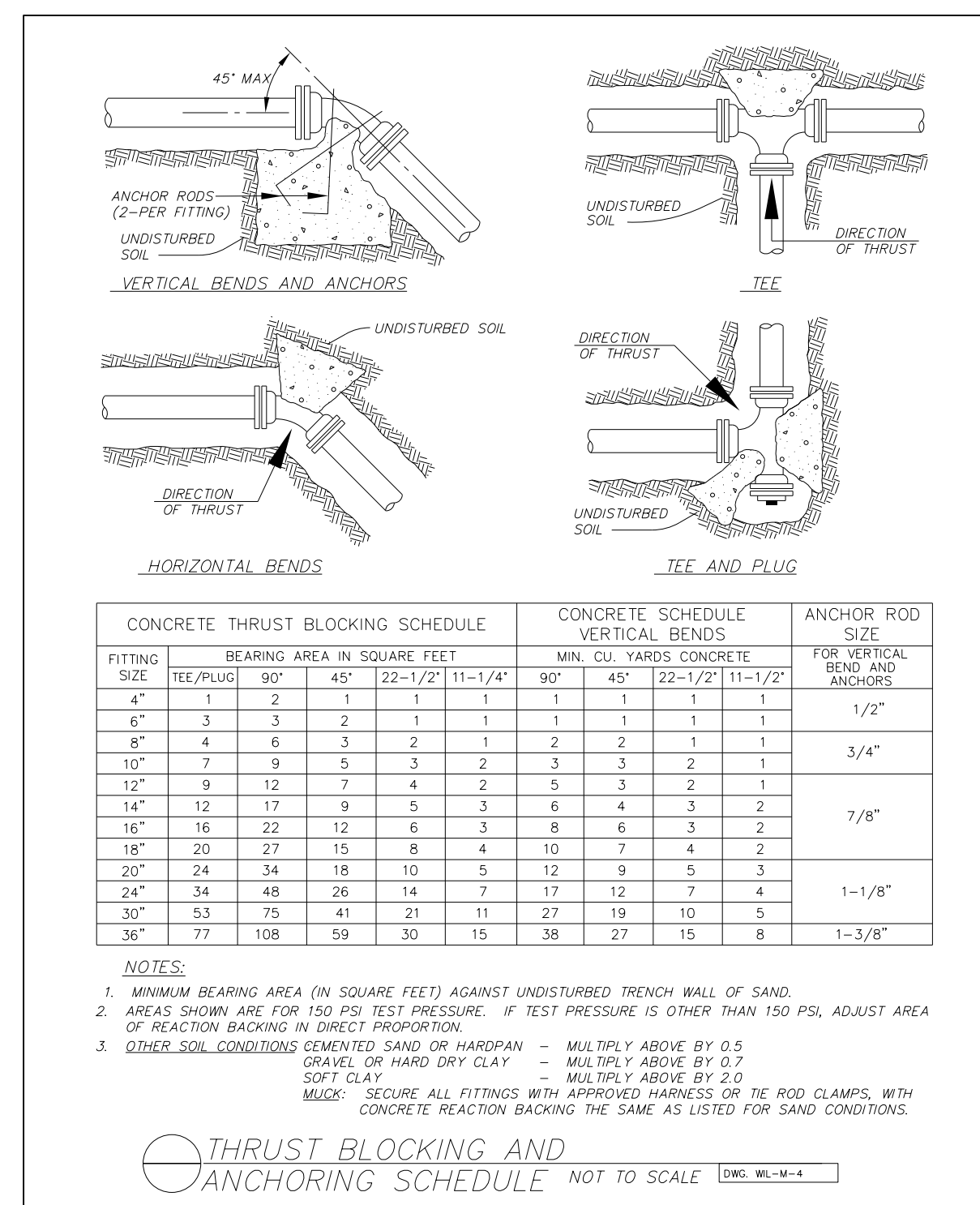
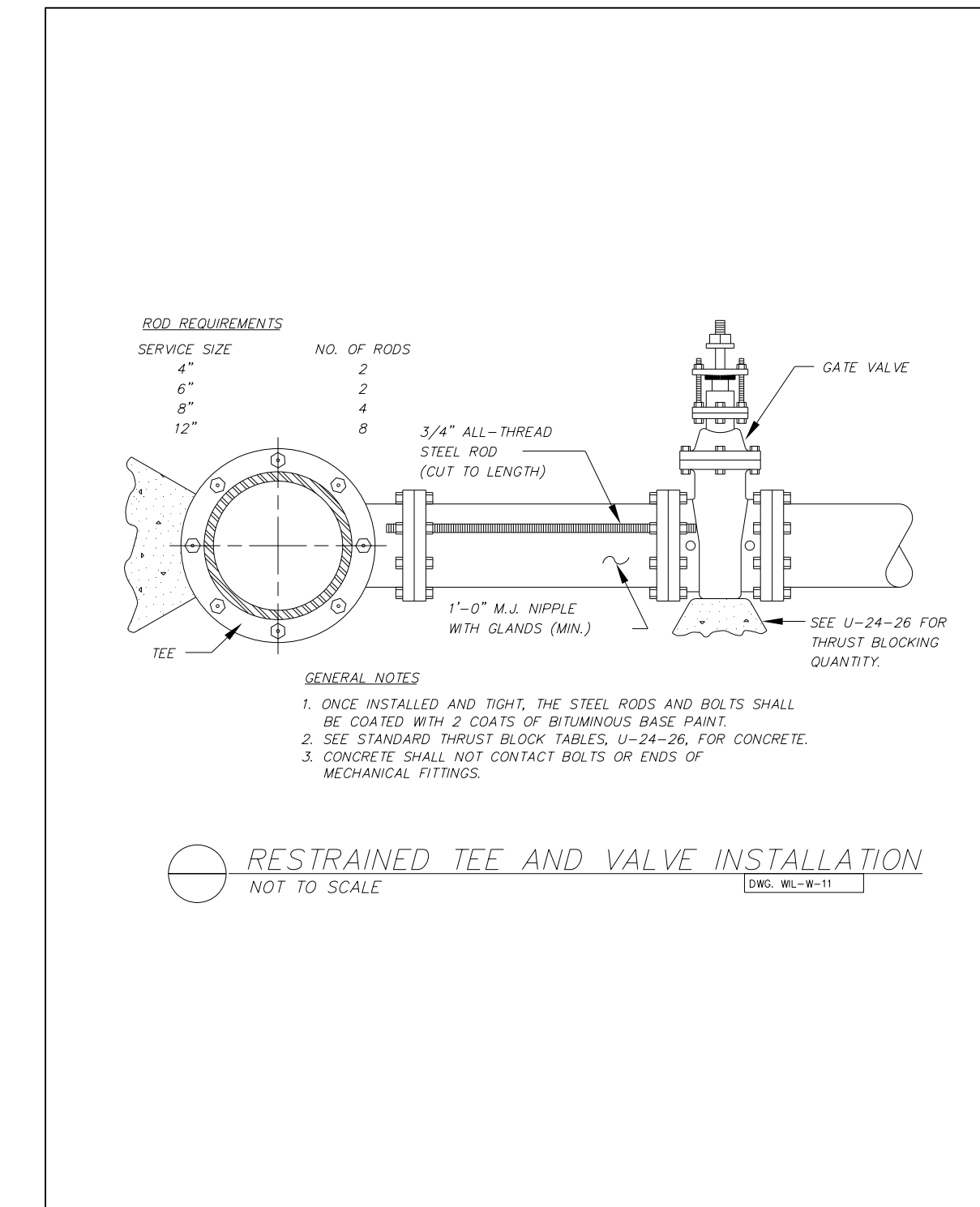
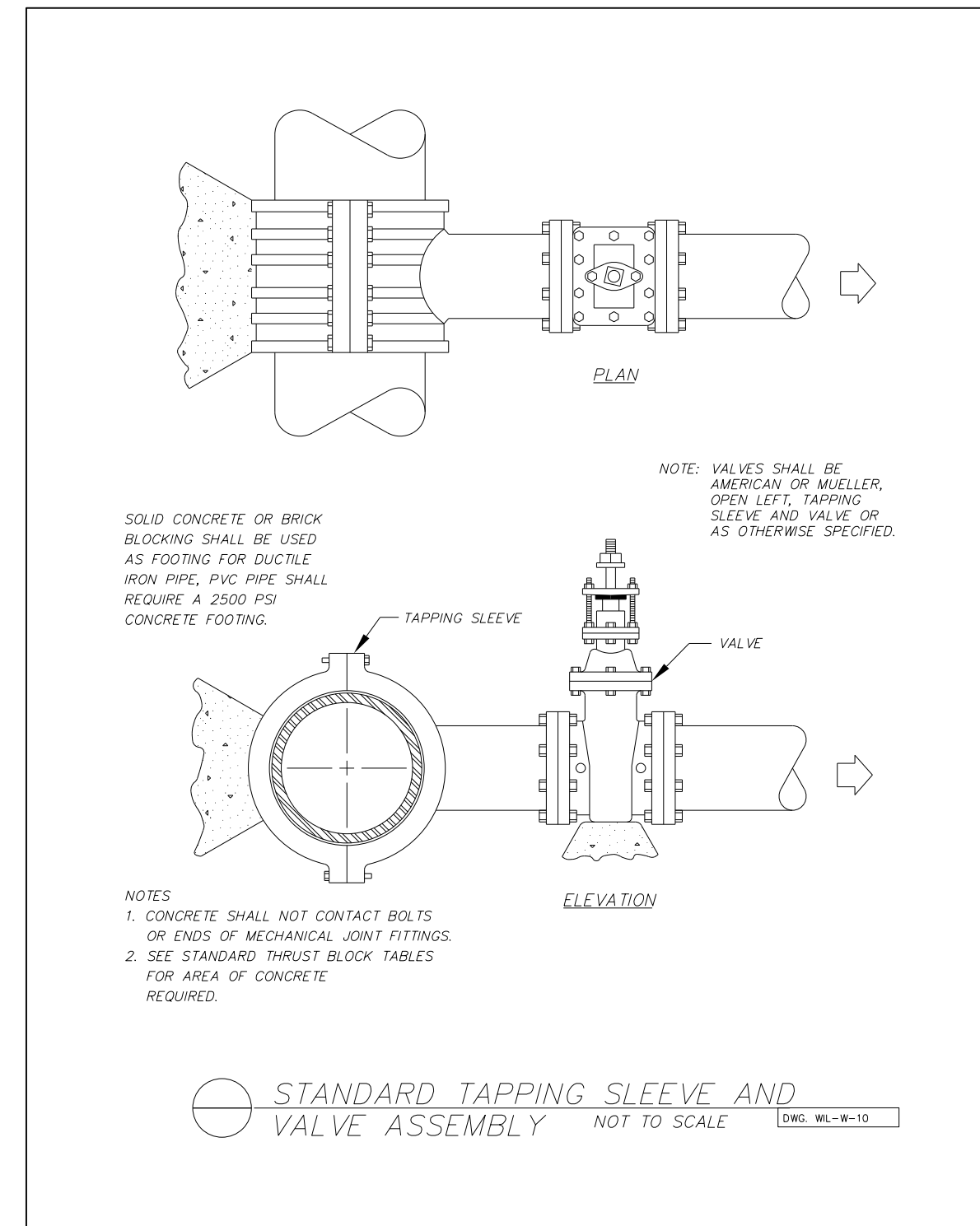
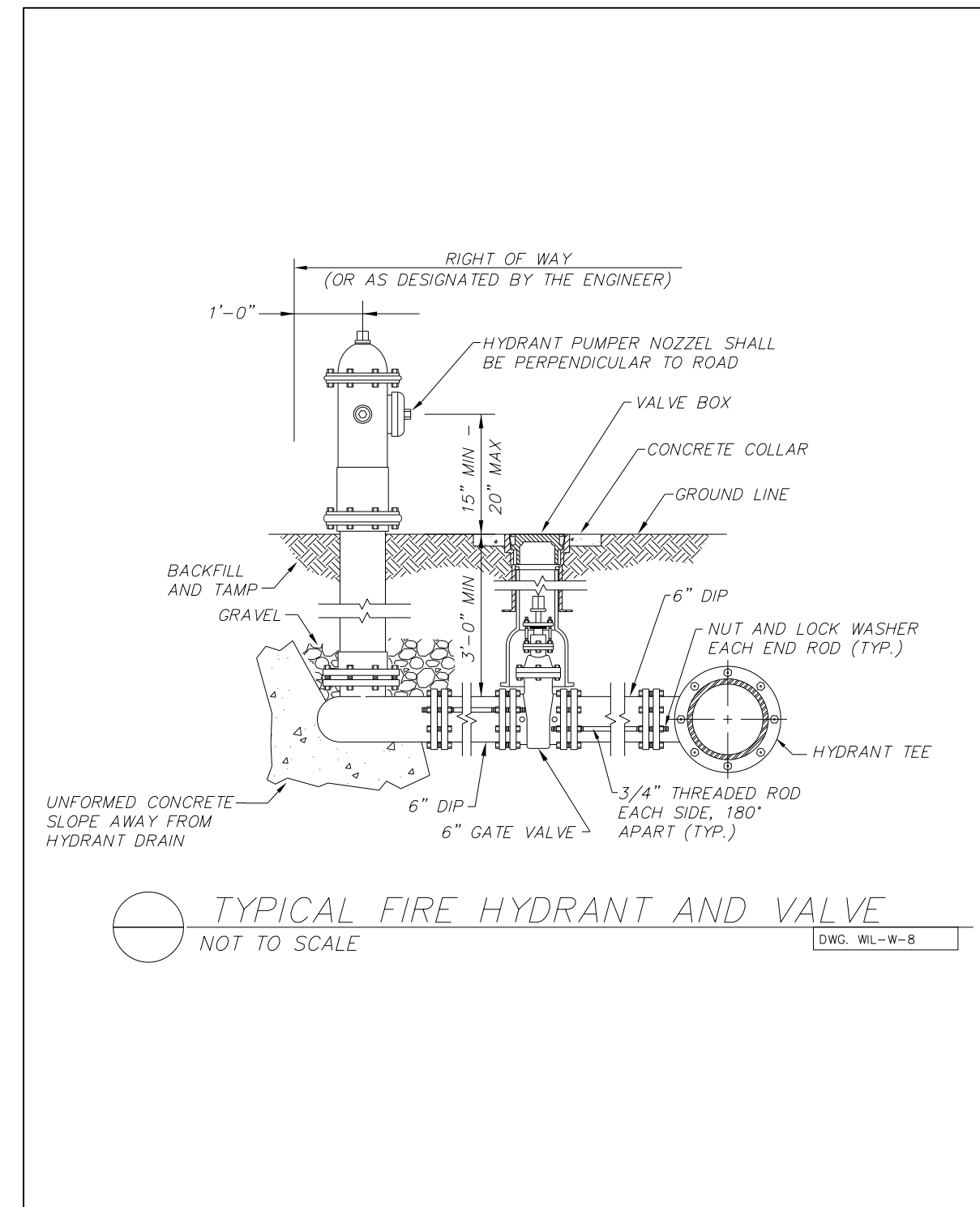


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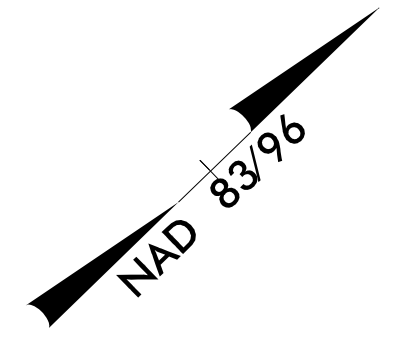
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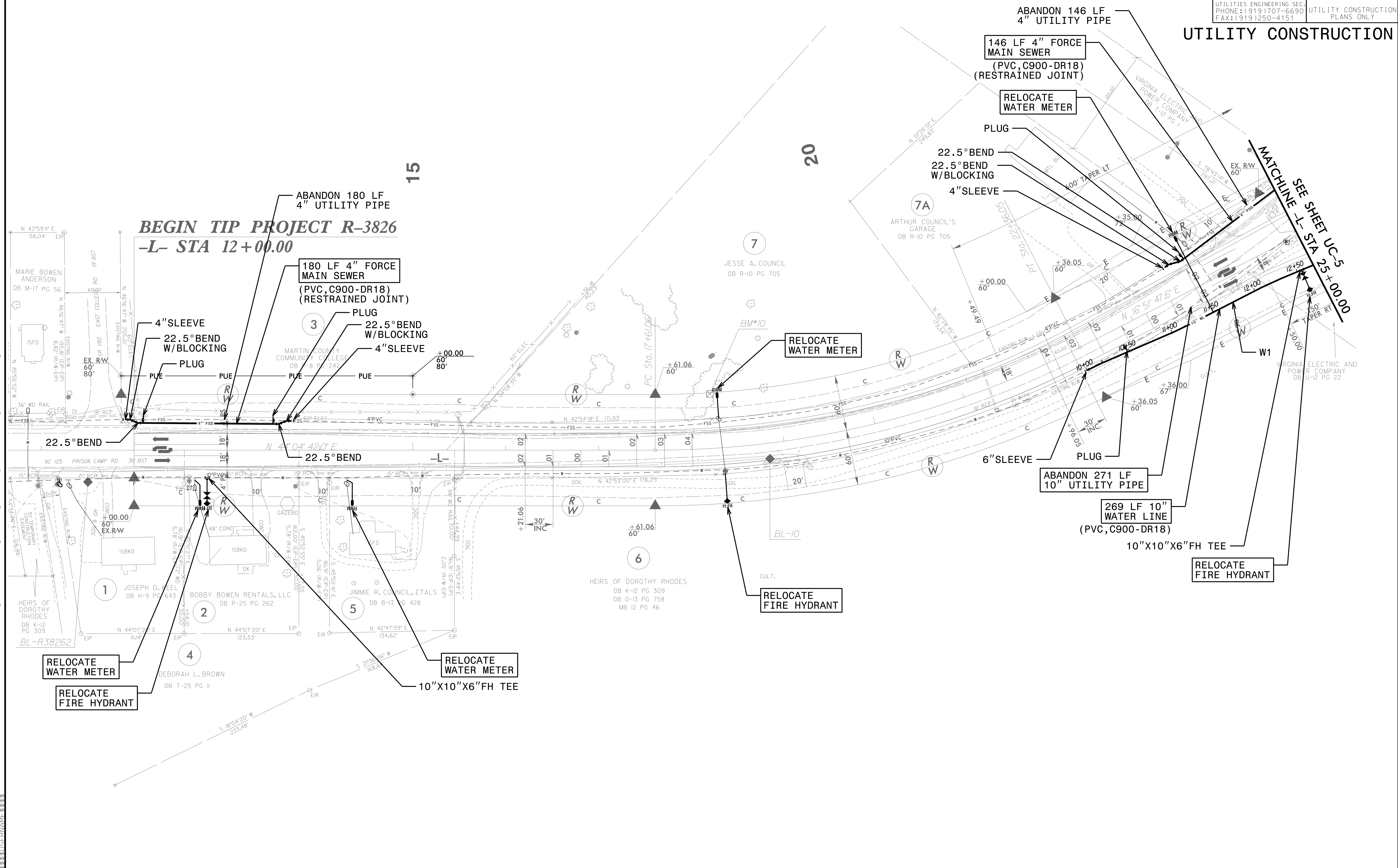
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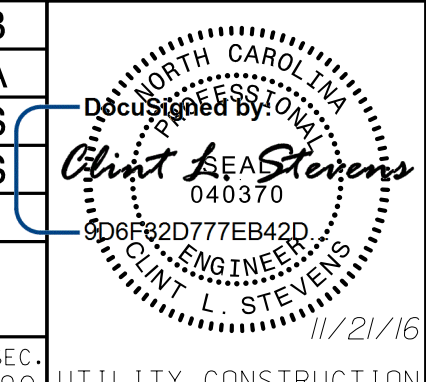
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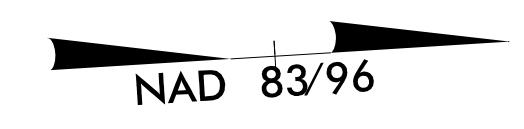
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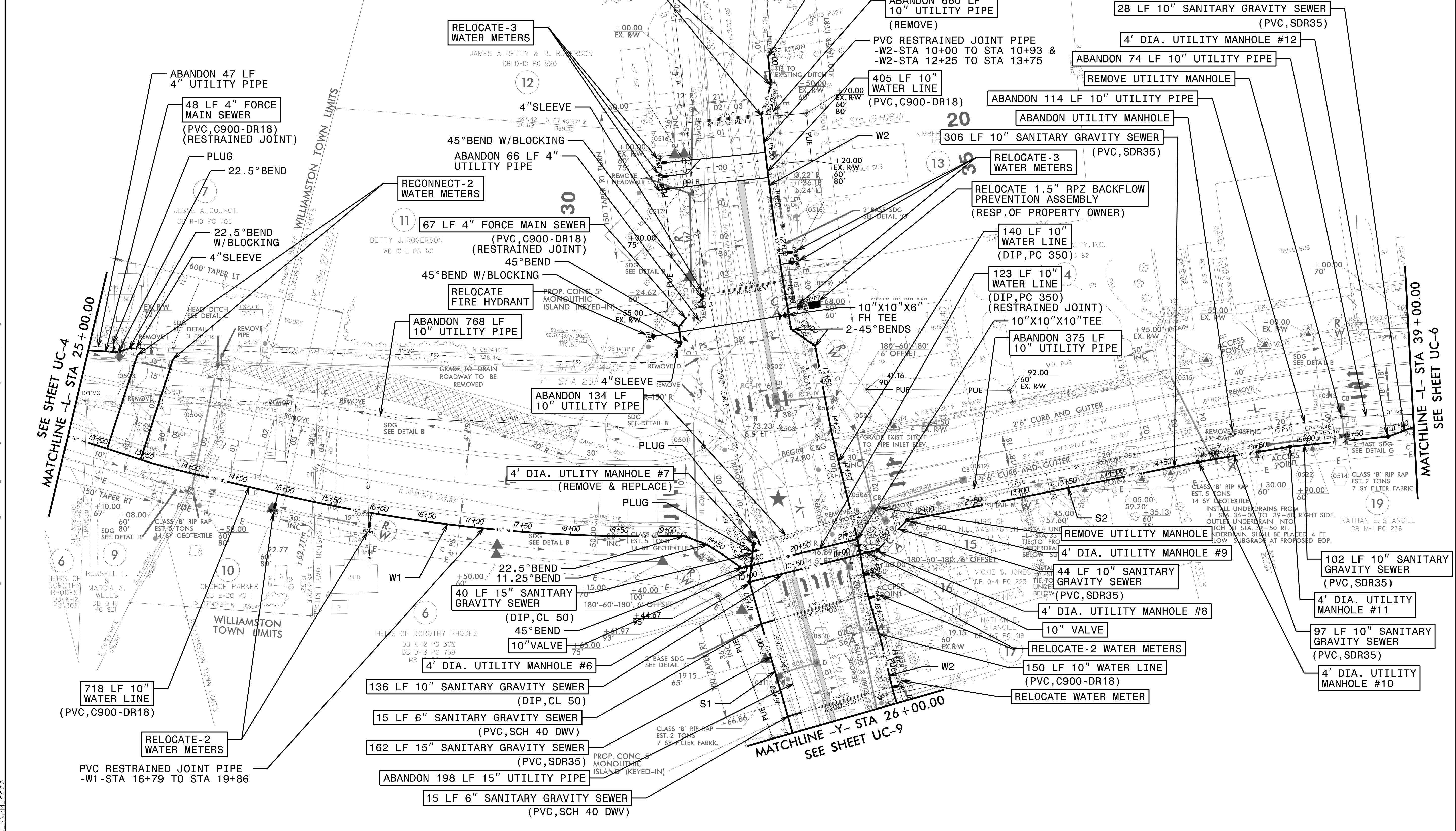
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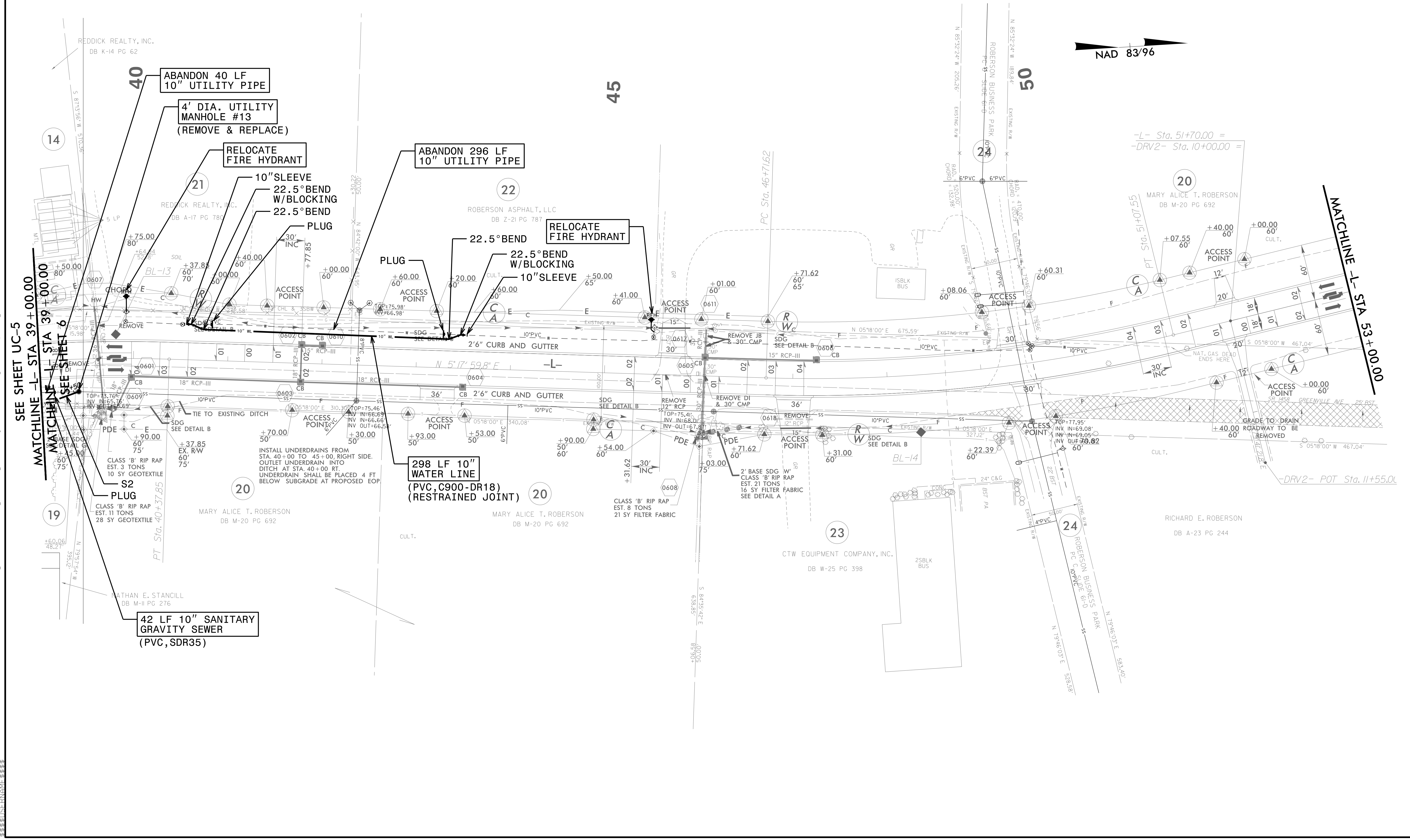
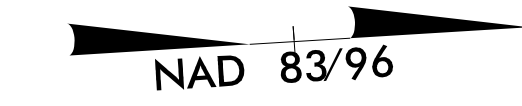
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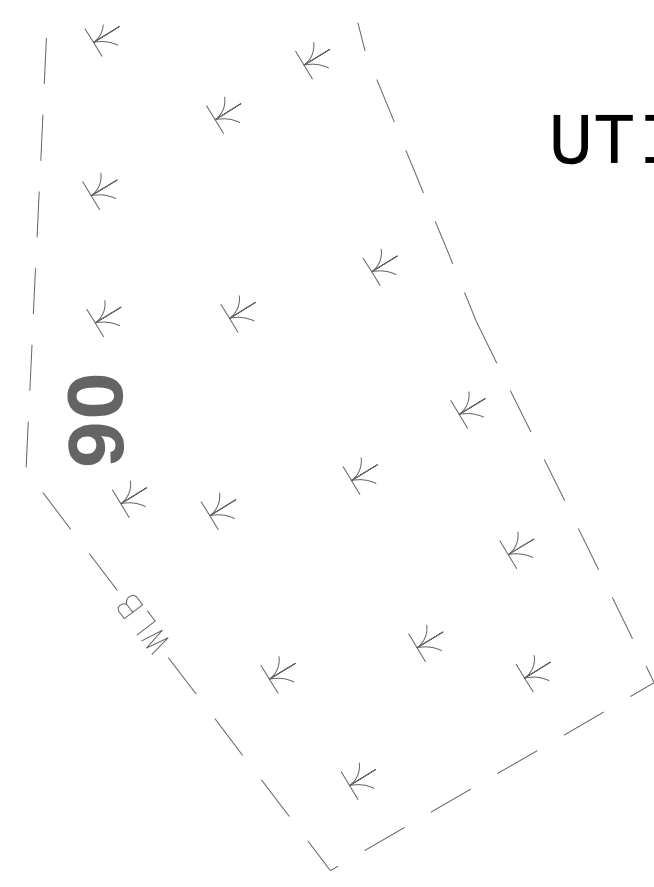
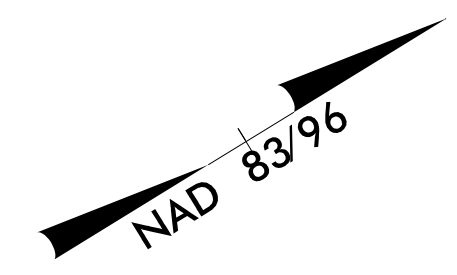
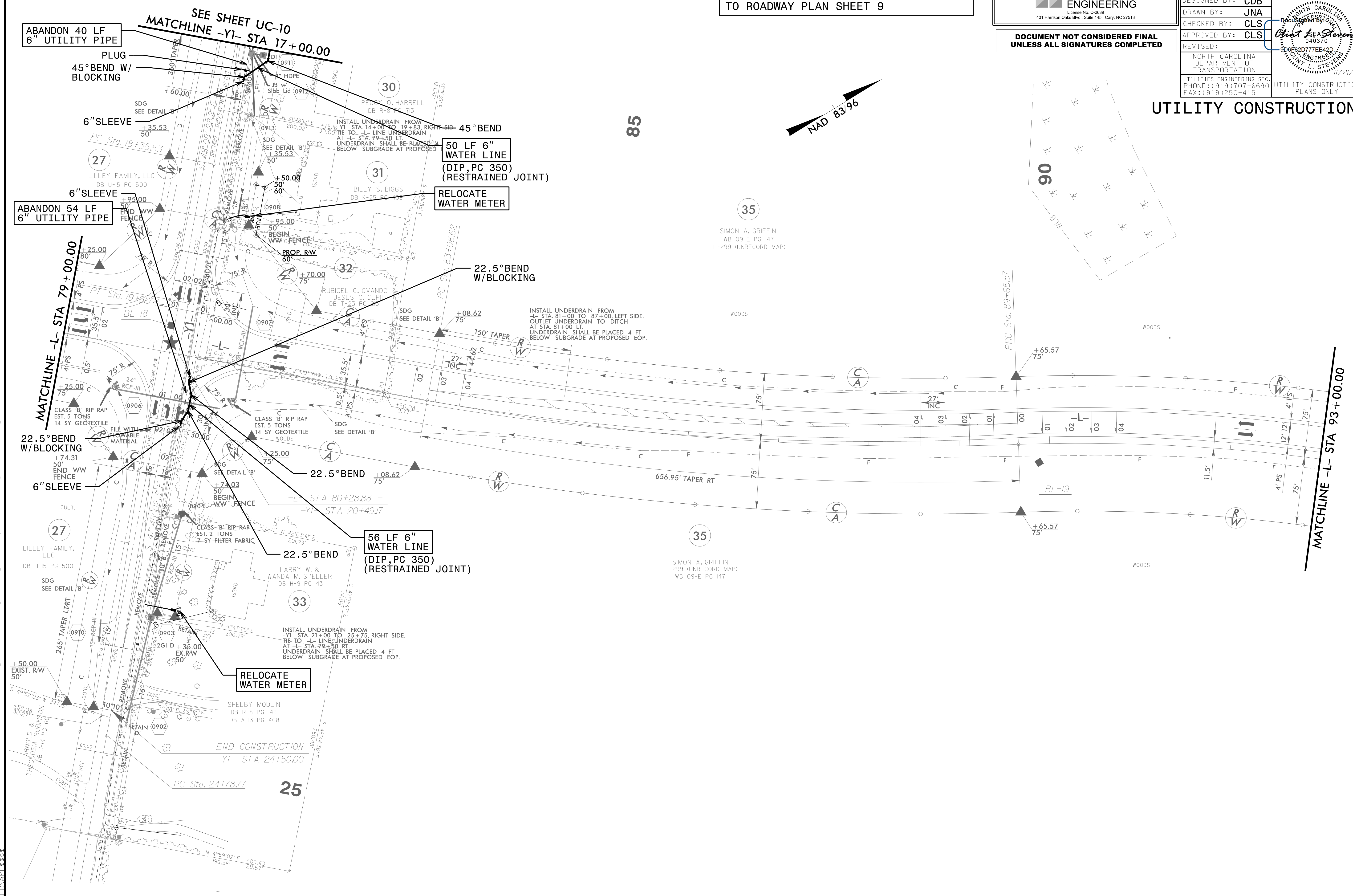
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UTILITY PLAN SHEET UC-7 CORRESPONDS TO ROADWAY PLAN SHEET 9

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CHECKED BY:	CLS		
APPROVED BY:	CLS		
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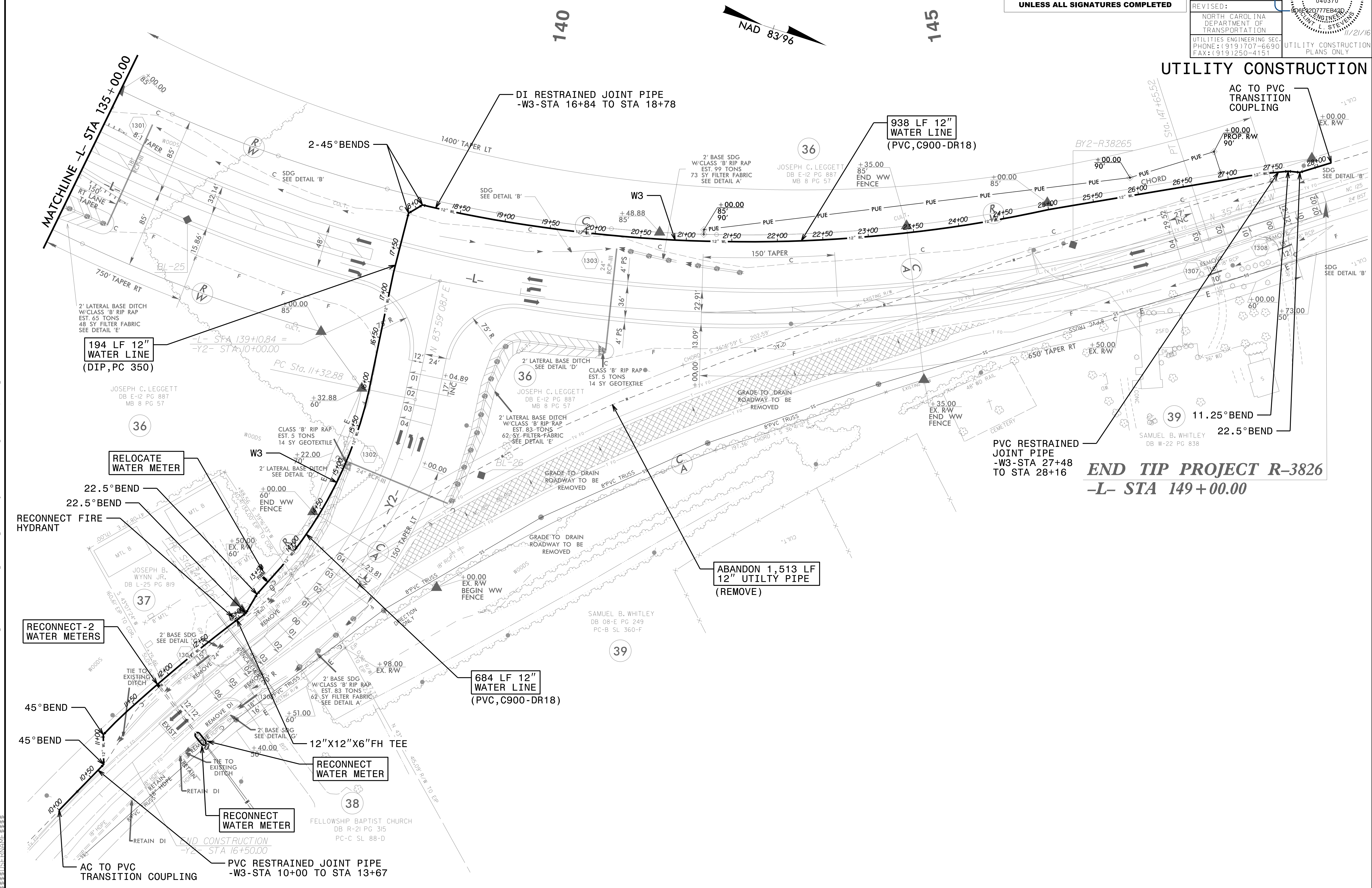
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UTILITY PLAN SHEET UC-8 CORRESPONDS TO ROADWAY PLAN SHEET 13

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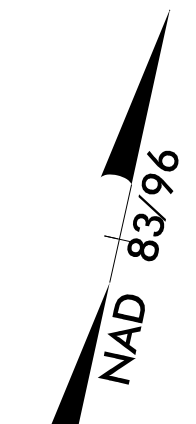
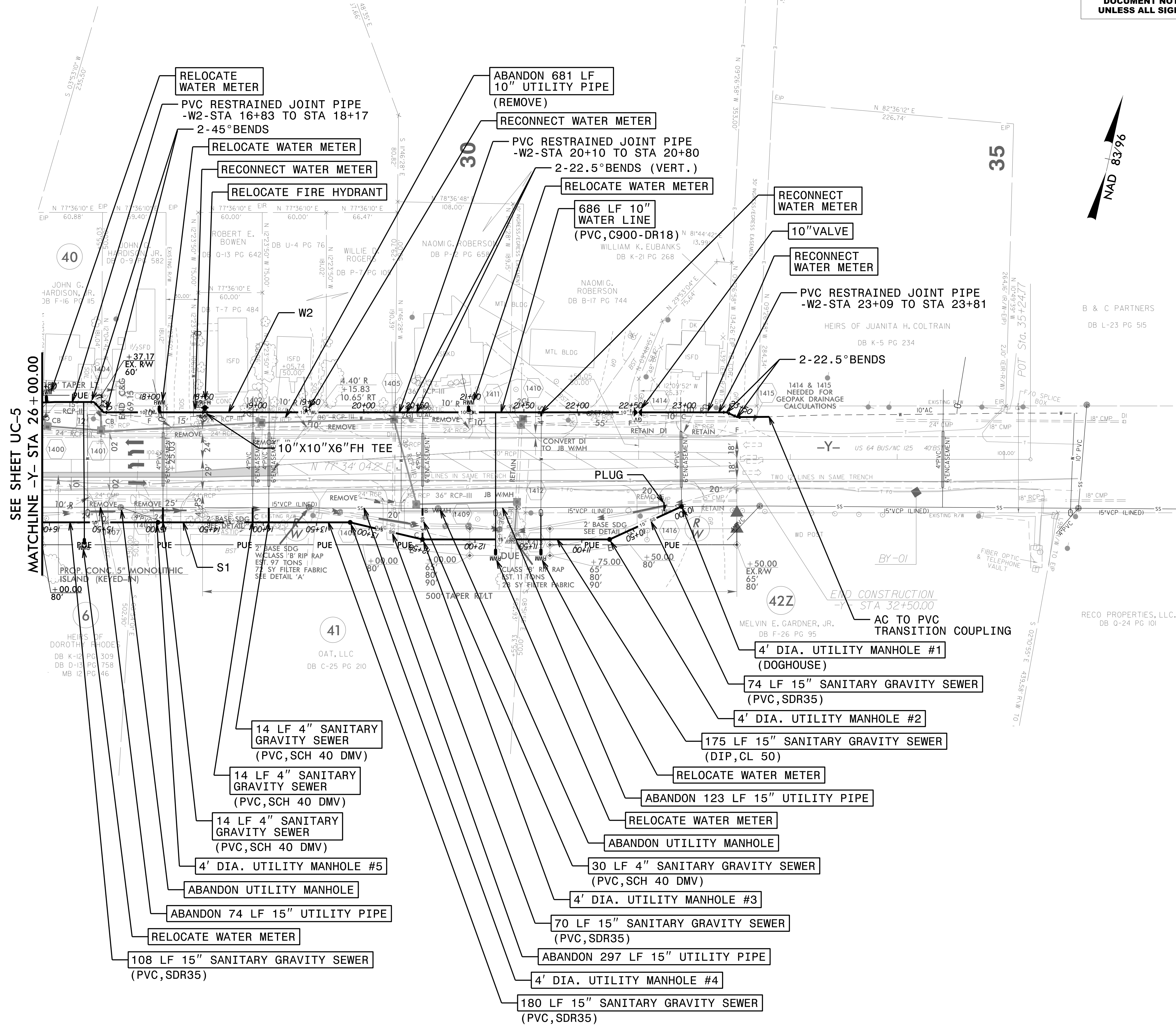
UTILITY PLAN SHEET UC-9 CORRESPONDS TO ROADWAY PLAN SHEET 14



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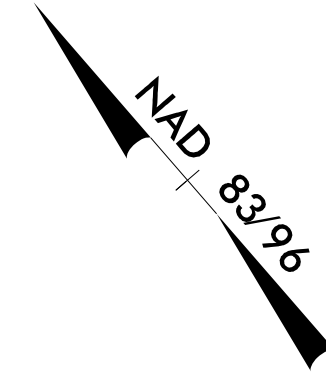
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UTILITY PLAN SHEET UC-10 CORRESPONDS
TO ROADWAY PLAN SHEET 15

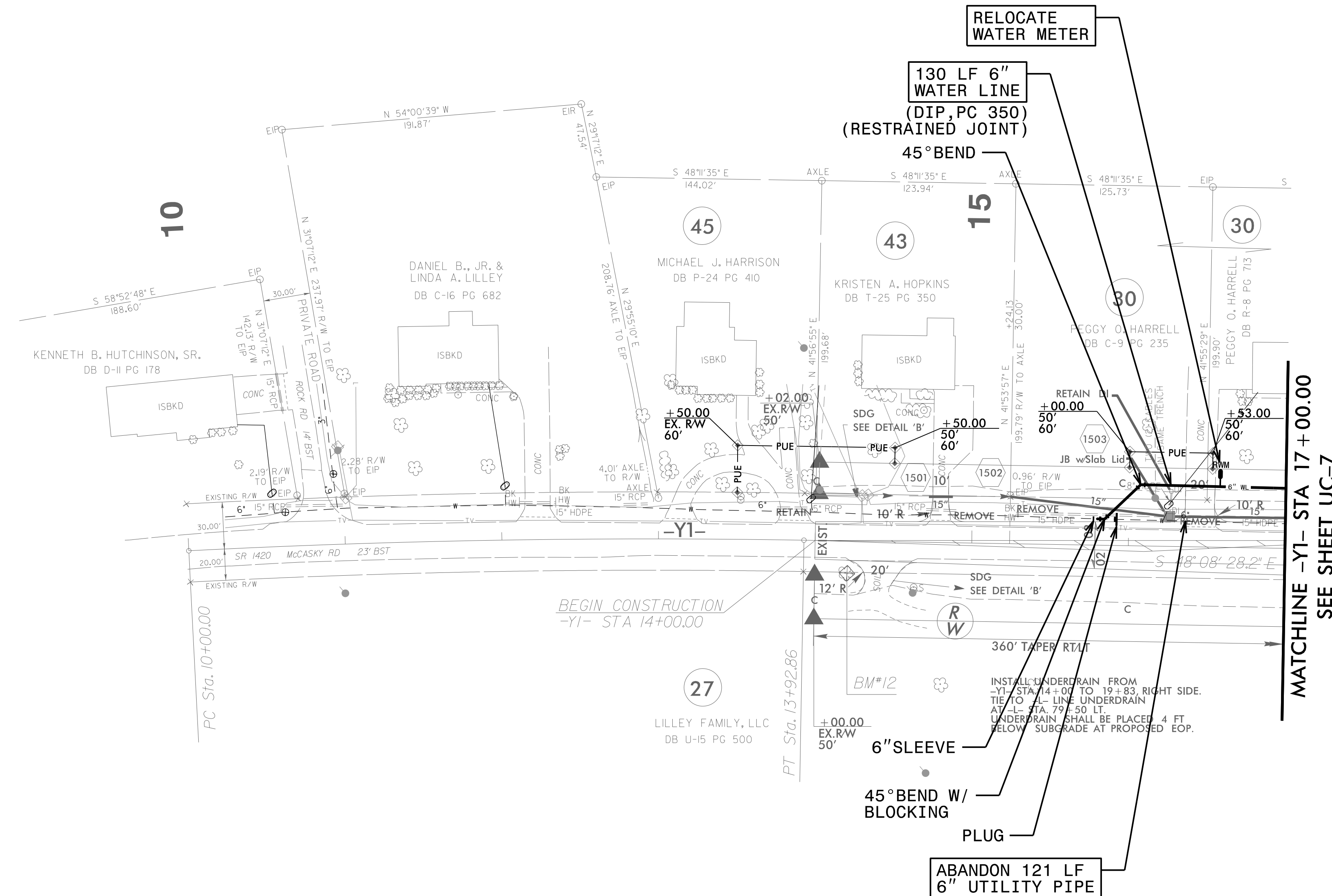


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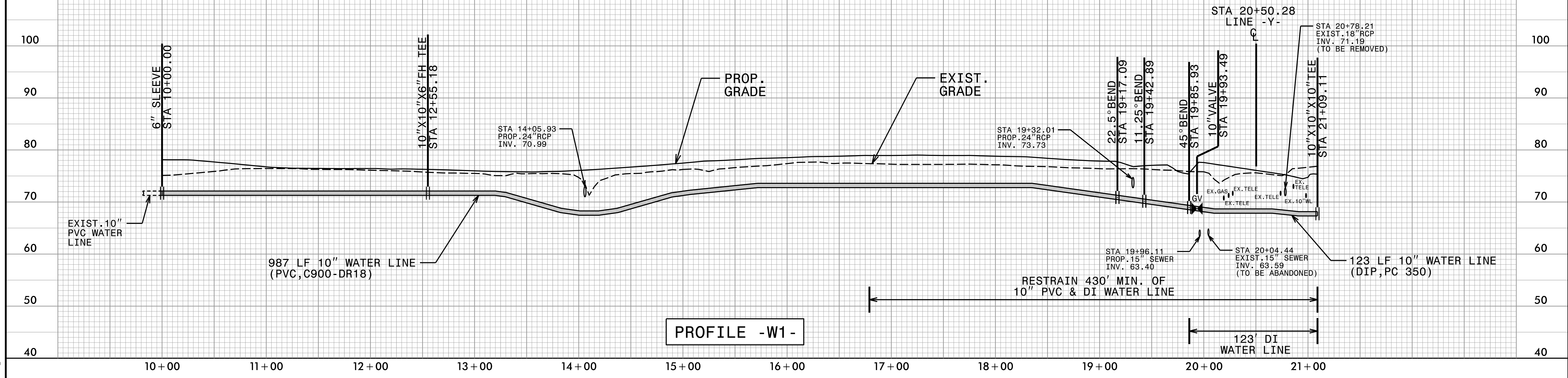
**PROP. 10" WATER MAIN
PRISON CAMP ROAD
PROFILE -W1-**

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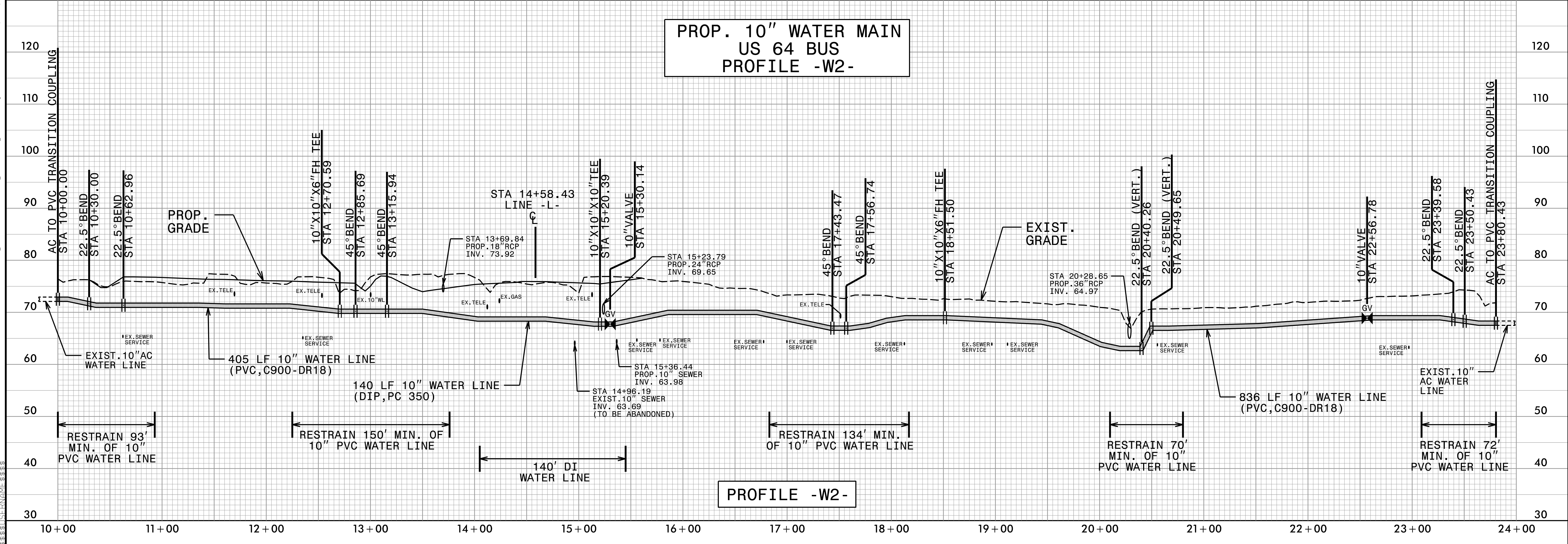
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UTILITY CONSTRUCTION



**PROP. 10" WATER MAIN
US 64 BUS
PROFILE -W2-**



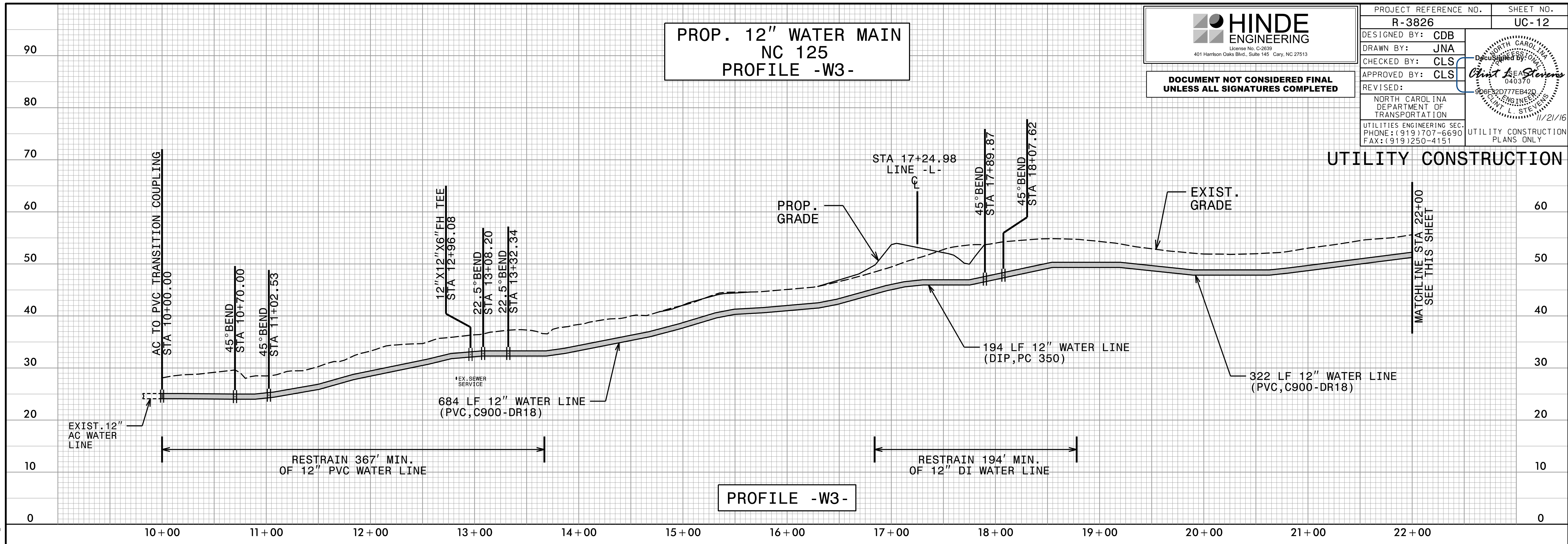
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PROP. 12" WATER MAIN
NC 125
PROFILE -W3-

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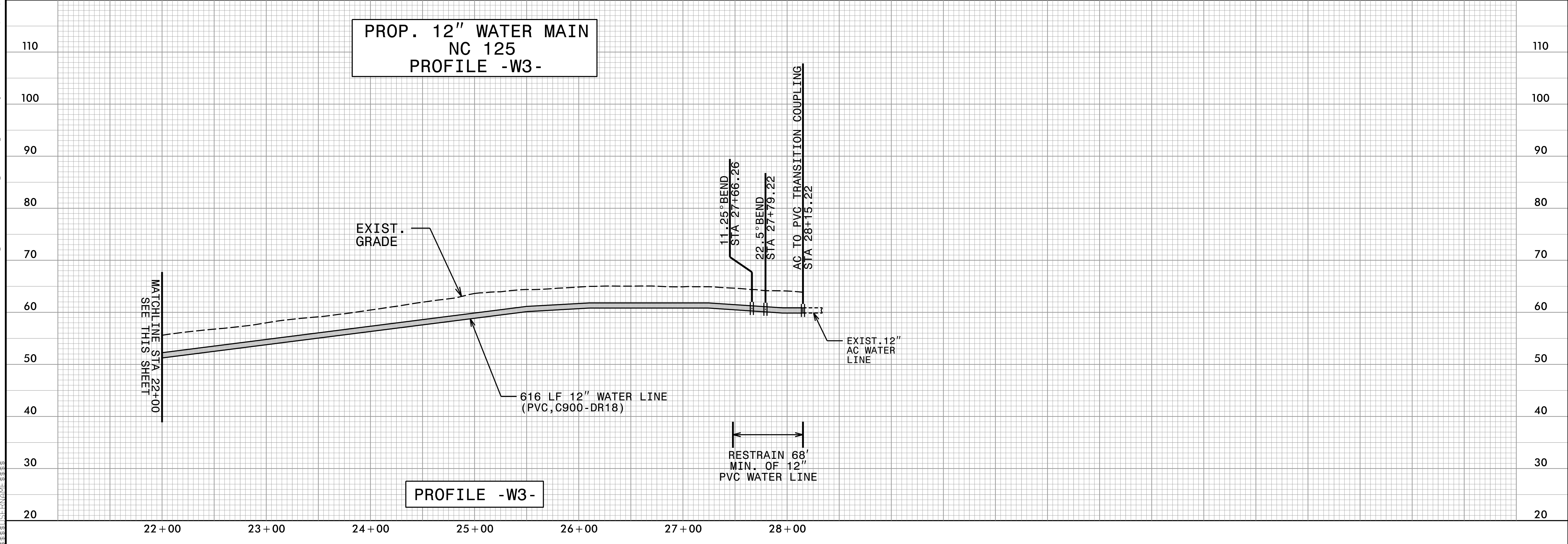
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PROFILE -W3-

PROP. 12" WATER MAIN
NC 125
PROFILE -W3-



PROFILE -W3-

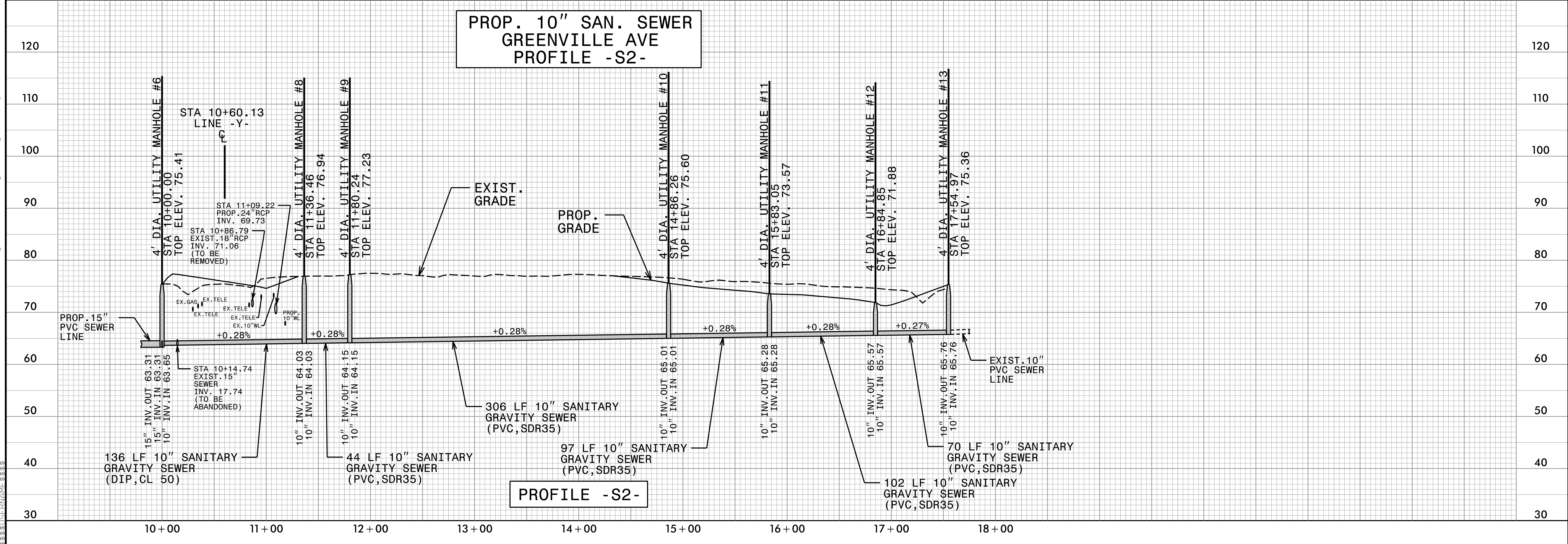
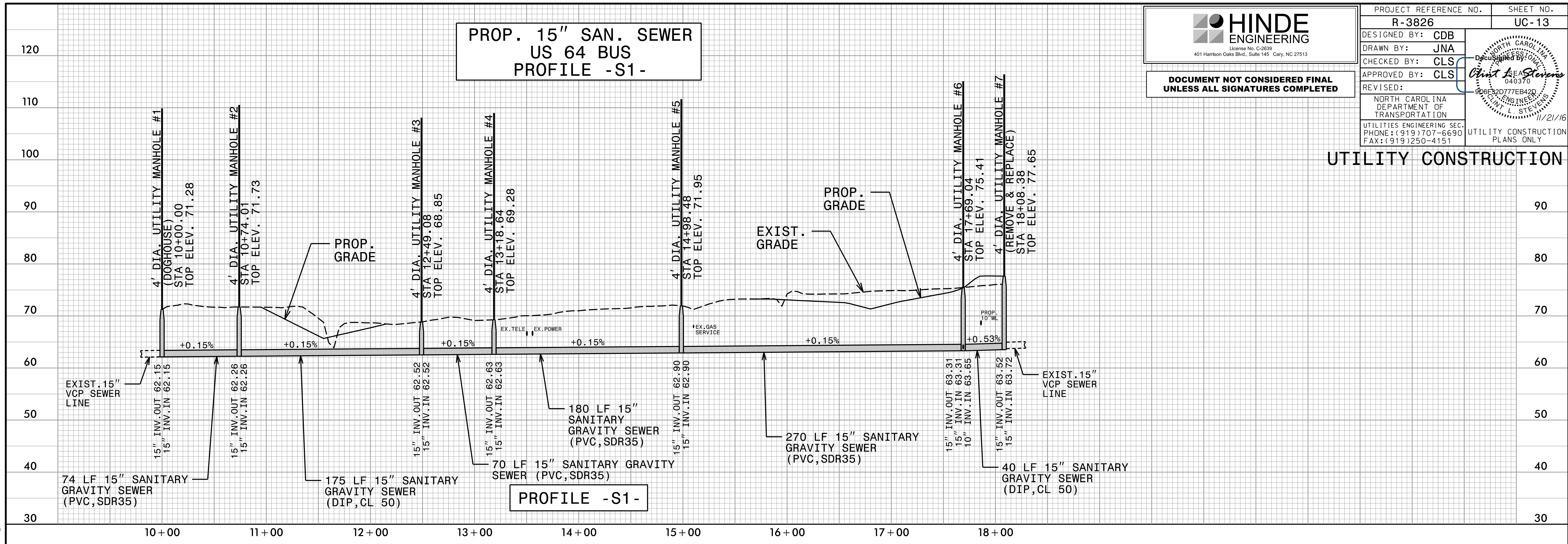
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UTILITY CONSTRUCTION



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