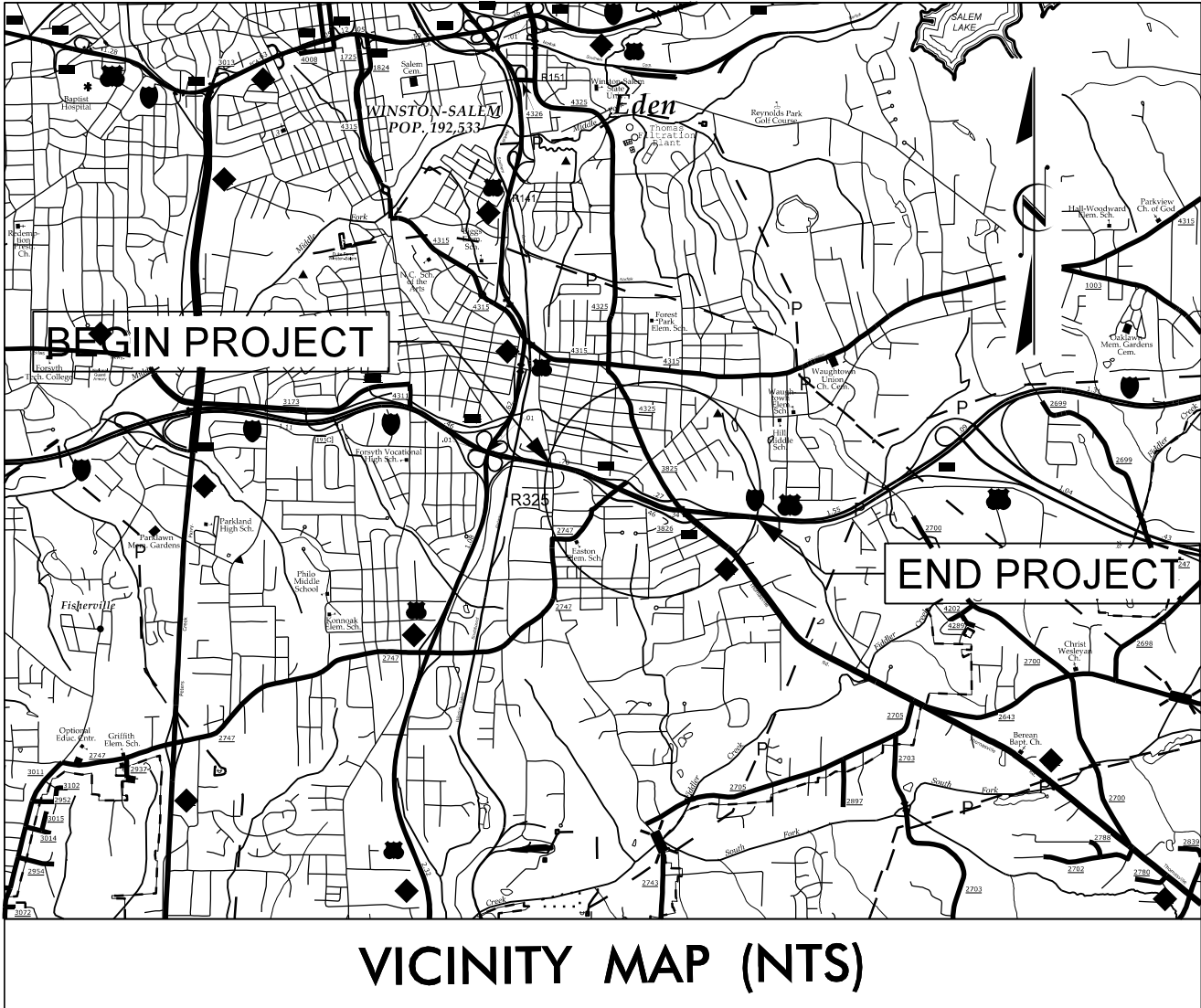


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TIP PROJECT: I-5880



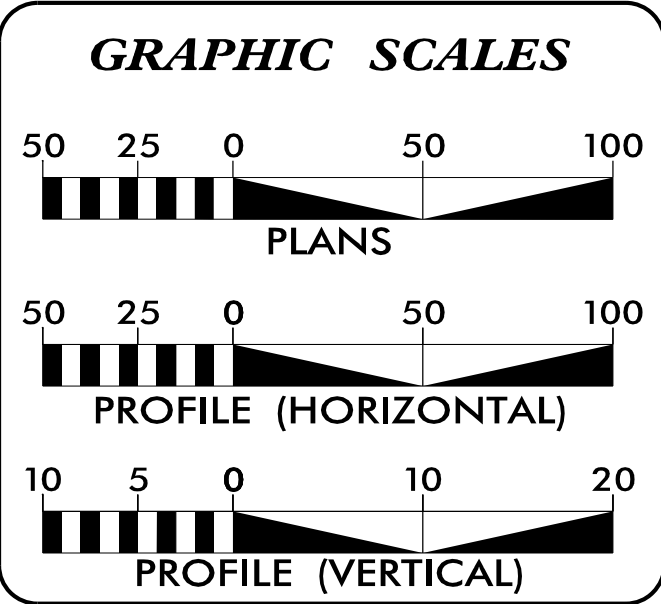
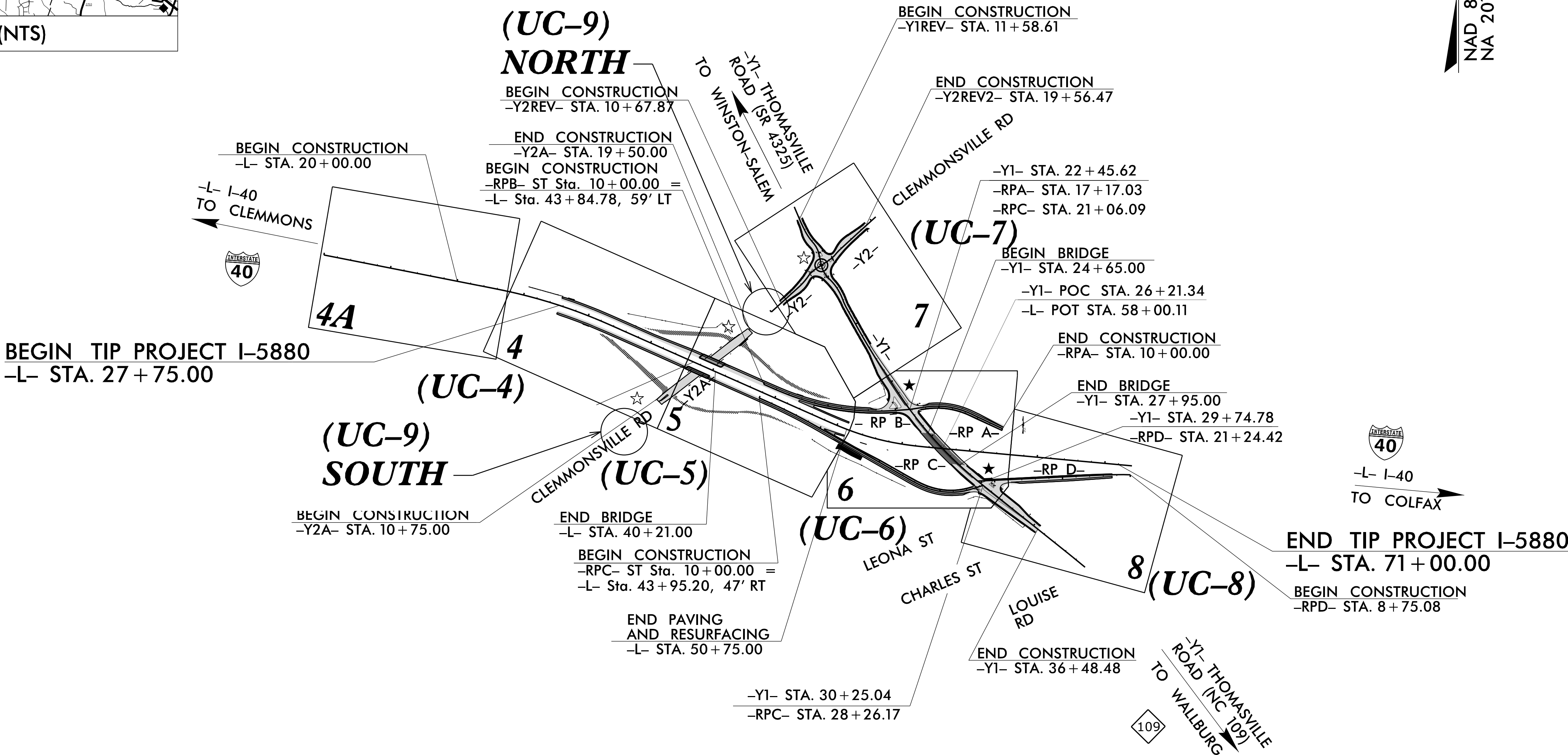
VICINITY MAP (NTS)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
FORSYTH COUNTY

LOCATION: I-40/NC 109 INTERCHANGE PROJECT IN WINSTON-SALEM
TYPE OF WORK: WATER & SEWER RELOCATIONS

T.I.P. NO.	SHEET NO.
I-5880	UC-1
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

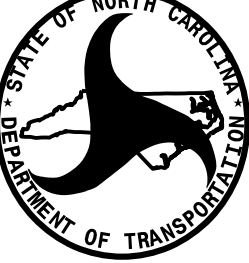


SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3B	DETAILS
UC-4 THRU UC-9	UTILITY CONSTRUCTION SHEETS
UC-10 THRU UC-15	PROFILE SHEETS

WATER AND SEWER OWNER ON PROJECT
(A) WATER - CITY OF WINSTON-SALEM
(B) SEWER - CITY OF WINSTON-SALEM

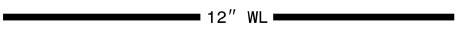
PREPARED IN THE OFFICE OF:	
 License No. C-2639 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513 Ph. (919) 653-0001	
Clint L. Stevens, P.E.	UTILITIES PROJECT MANAGER
Jordan K. Chapman, E.I.	UTILITIES PROJECT ENGINEER
James N. Arnold	UTILITIES PROJECT DESIGNER

SEAL

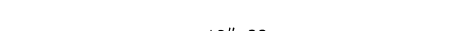

 DIVISION OF HIGHWAYS DIVISION 9 375 SILAS CREEK PKWY WINSTON SALEM, NC 27127 PHONE (336) 747-7800 FAX (336) 761-2004	
Amy Dupree York	WESTERN UTILITIES MANAGER
Ali Kouchehi, PE	REGIONAL UTILITIES MANAGER
Joshua McMahan	DIVISION UTILITY ENGINEER
Lou Porter	ASSISTANT DIV. UTILITY ENGR.

UTILITIES PLAN SHEET SYMBOLS

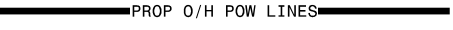
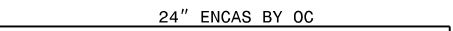
PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ 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	
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.

*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	

*For Existing Utilities

Utility Line Drawn from Record (Type as Shown)	
Designated Utility Line (Type as Shown)	

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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 CITY OF WINSTON-SALEM. THE CONTACT PERSON IS:

TODD LEWIS, PE
SENIOR CIVIL ENGINEER
336-747-6842

REFER TO CITY OF WINSTON-SALEM TECHNICAL SPECIFICATIONS AND DETAIL DRAWINGS FOR WATER LINE AND SANITARY SEWER LINE CONSTRUCTION - JULY 2020. IN THE EVENT OF A CONFLICT BETWEEN THE UTILITY OWNER'S TECHNICAL SPECIFICATIONS AND NCDOT STANDARD SPECIFICATIONS/PROJECT SPECIAL PROVISIONS, THE MOST STRINGENT SHALL GOVERN.

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.

UTILITY CONSTRUCTION

10. ALL WATER LINE INSTALLED ON THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE RULES GOVERNING PUBLIC WATER SYSTEMS. VERTICAL SEPARATION BETWEEN PROPOSED WATER MAINS AND STORM DRAINAGE SHALL BE A MINIMUM OF 18-INCHES PER RECOMMENDED STANDARDS OF WATER WORKS. ALL PROPOSED WATER LINE SHALL HAVE A MINIMUM COVER OF 36-INCHES. PROPOSED WATER MAINS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10-FEET FROM SEWER MAINS (REF. RULE .0904, RULE.0906). UTILITIES BEING RELOCATED OR INSTALLED AS SHOWN ON THE UTILITY CONSTRUCTION PLANS MUST BE ADJUSTED ACCORDINGLY TO MEET THESE CRITERIA.

11. ALL GRAVITY SANITARY SEWER PIPE SHALL BE DUCTILE IRON, CLASS 50, AND LINED WITH 40 MILS OF PROTECTO-401 CERAMIC EPOXY COATING. ALL BELLS AND SPIGOTS SHALL BE LINED WITH A MINIMUM OF 8 MILS OF PROTECTO 401 JOINT COMPOUND OR APPROVED EQUAL.

12. ALL WATER LINE PIPE SHALL BE DUCTILE IRON RESTRAINED. ALL PIPE AND FITTINGS SHALL HAVE FLEXIBLE PUSH-ON JOINTS.

13. ALL VALVES ON WATER MAINS SHALL BE GATE VALVES, UNLESS OTHERWISE NOTED ON THE UTILITY CONSTRUCTION PLANS.

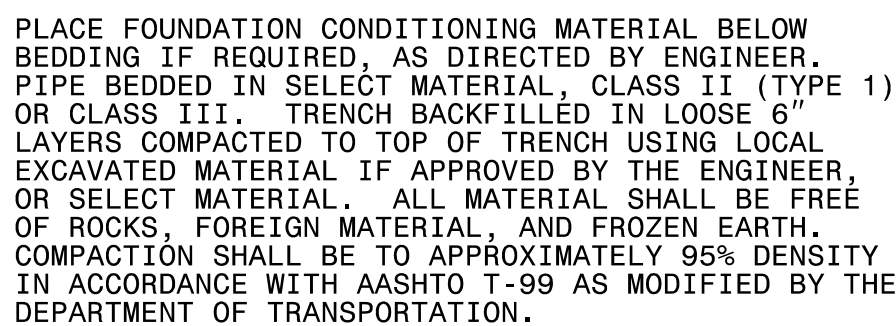


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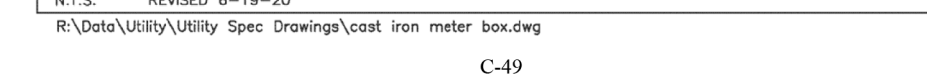
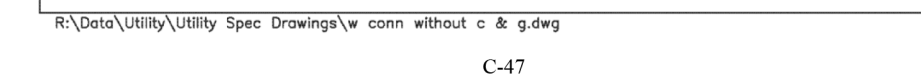
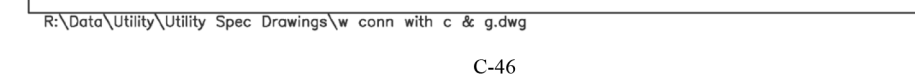
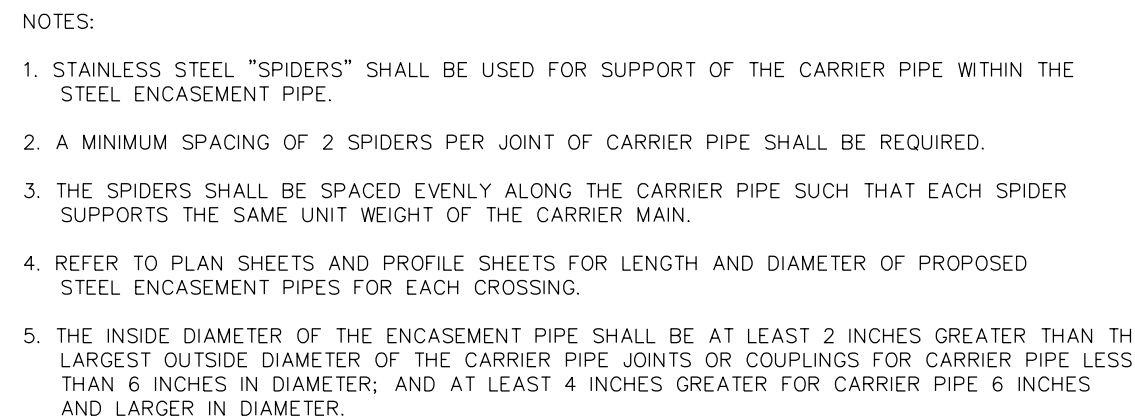
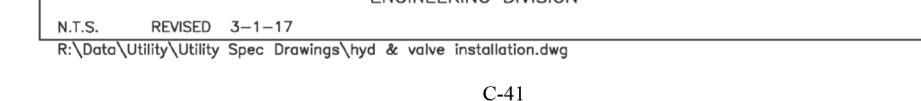
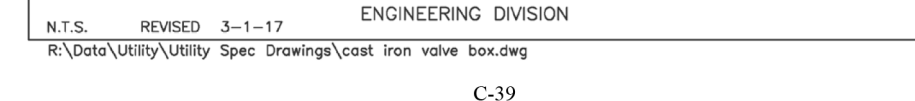
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DESIGNED BY: JKC		
DRAWN BY: JNA		
CHECKED BY: JKC		
APPROVED BY: CLS		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		

UTILITY CONSTRUCTION



MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



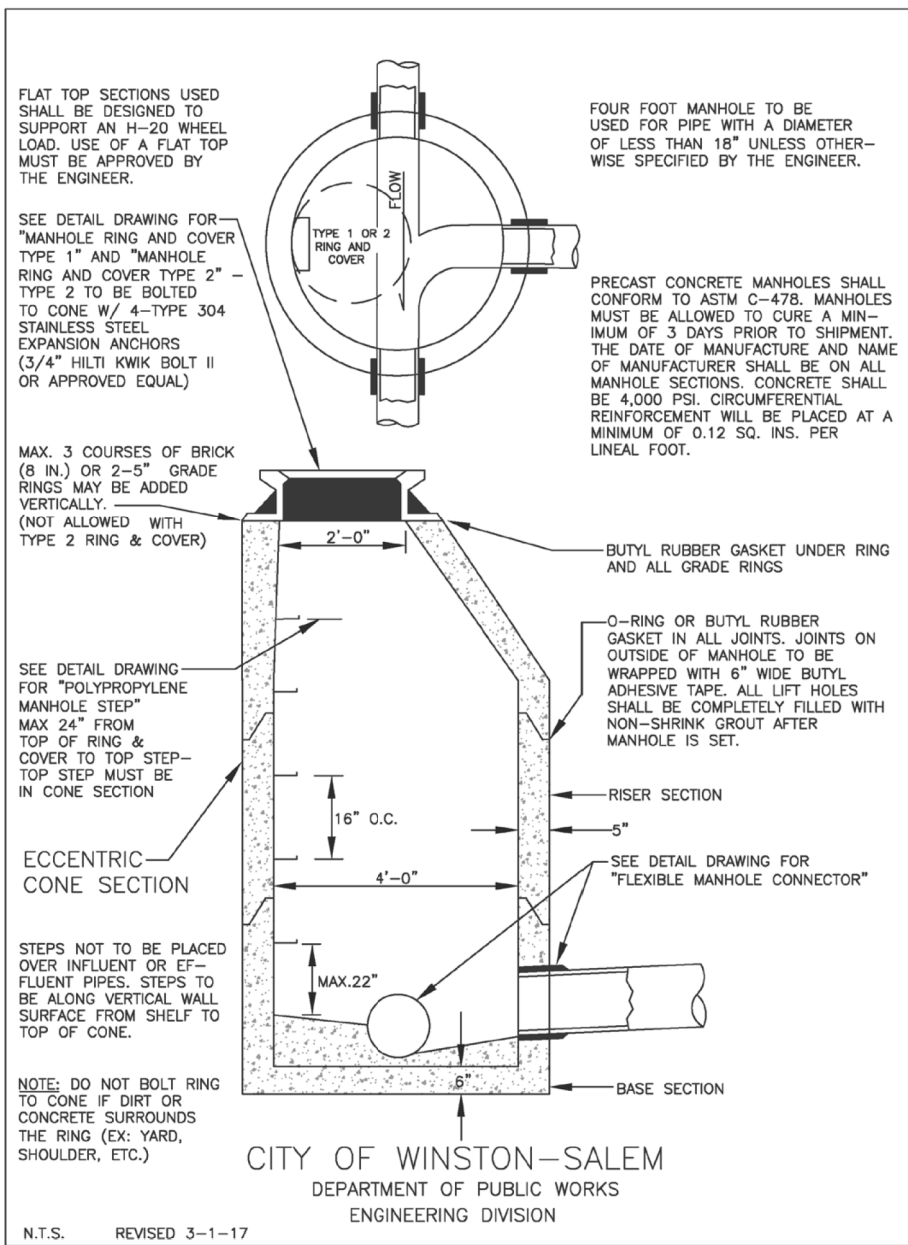


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DRAWN BY: JNA			
CHECKED BY: JKC			
APPROVED BY: CLS			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

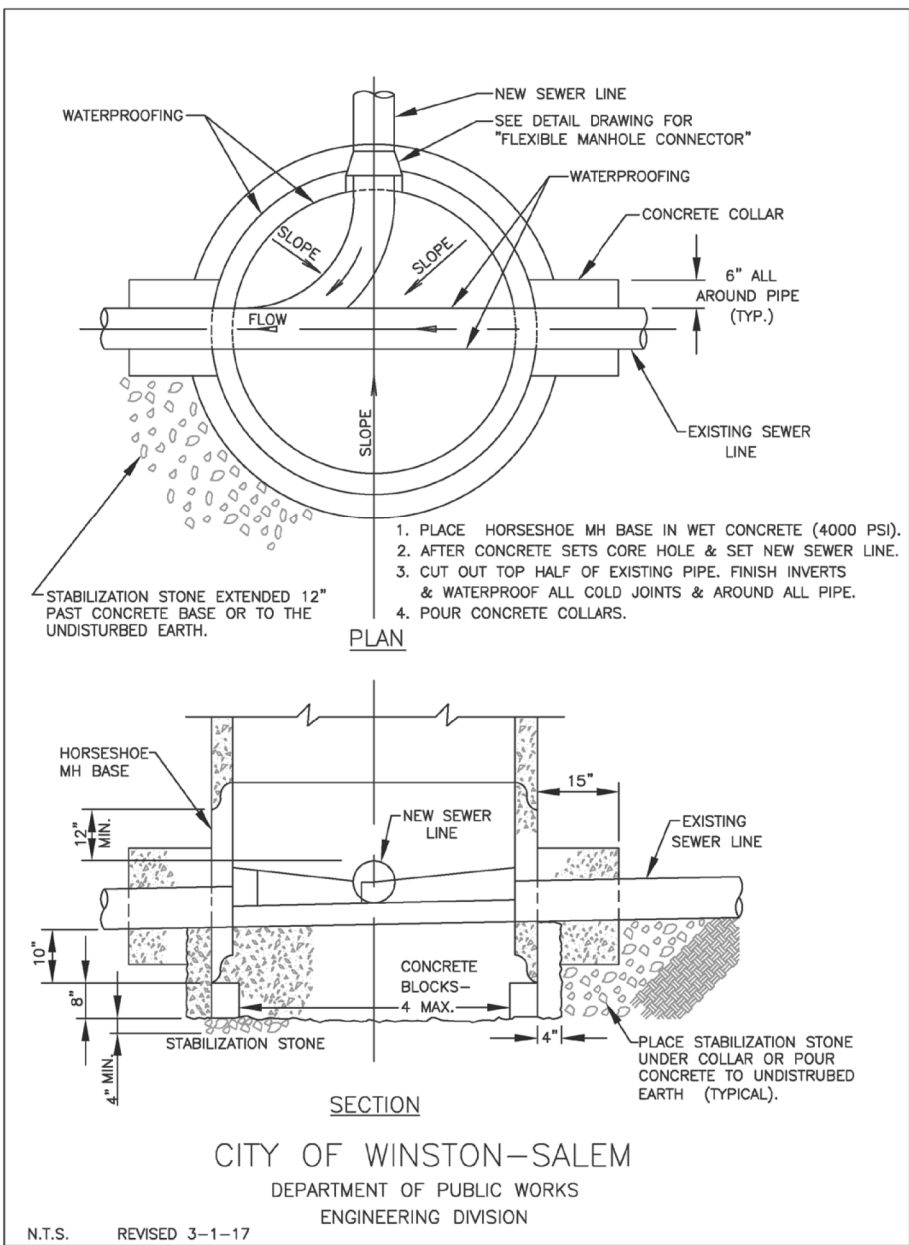
UTILITY CONSTRUCTION

4' Precast Reinforced Concrete Manhole



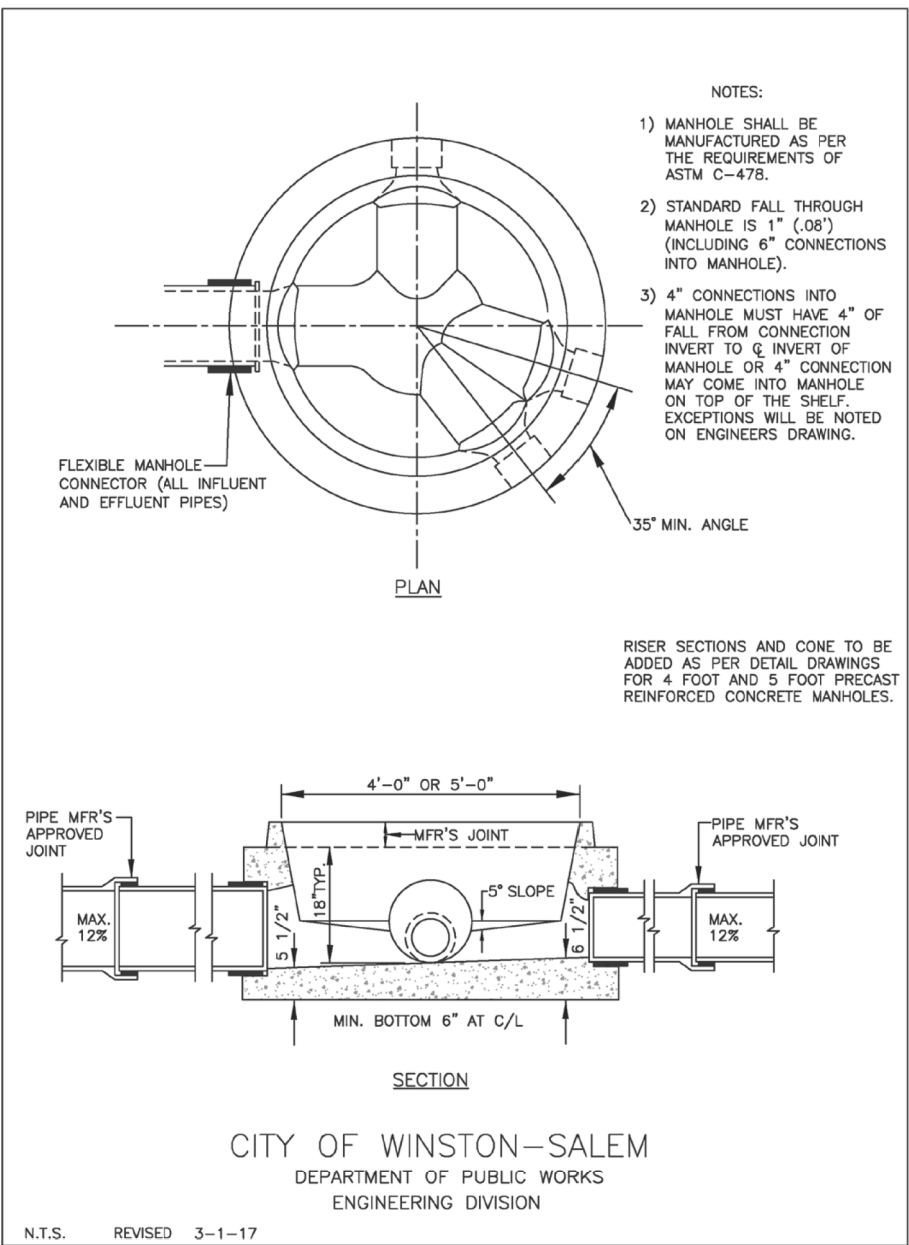
C-10

Manhole Built Over Existing Line



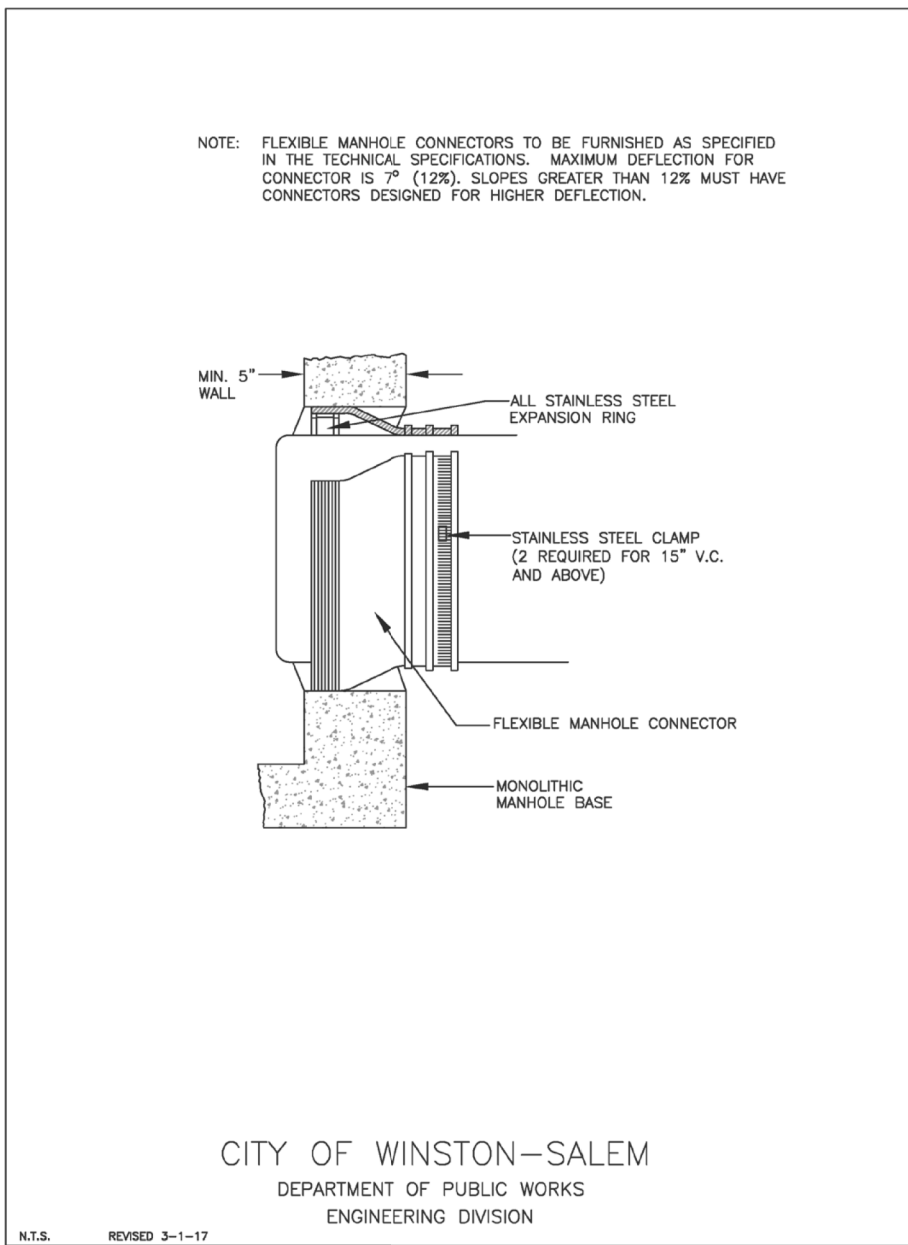
C-13

Precast Reinforced Concrete Manhole with Precast Invert



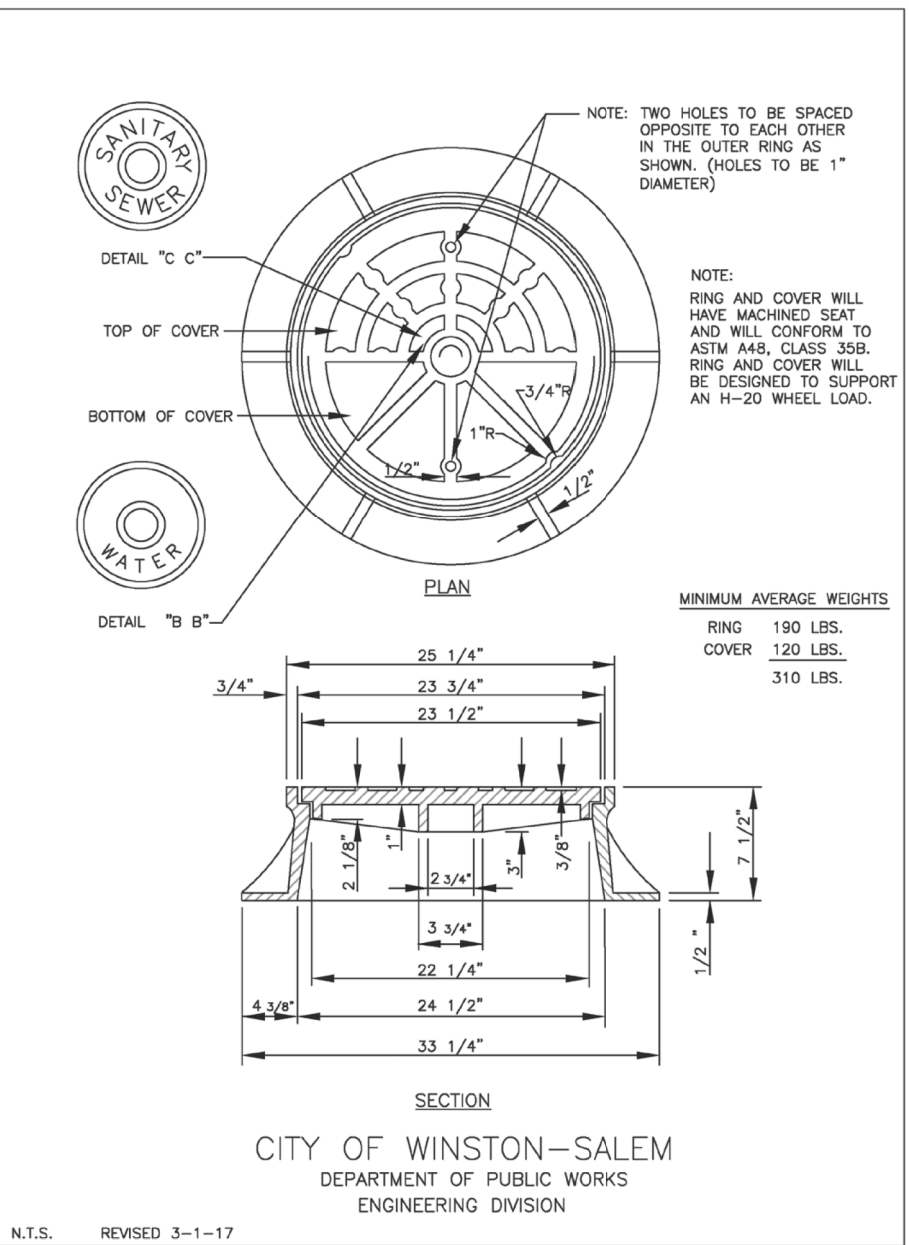
C-16

Flexible Manhole Connector



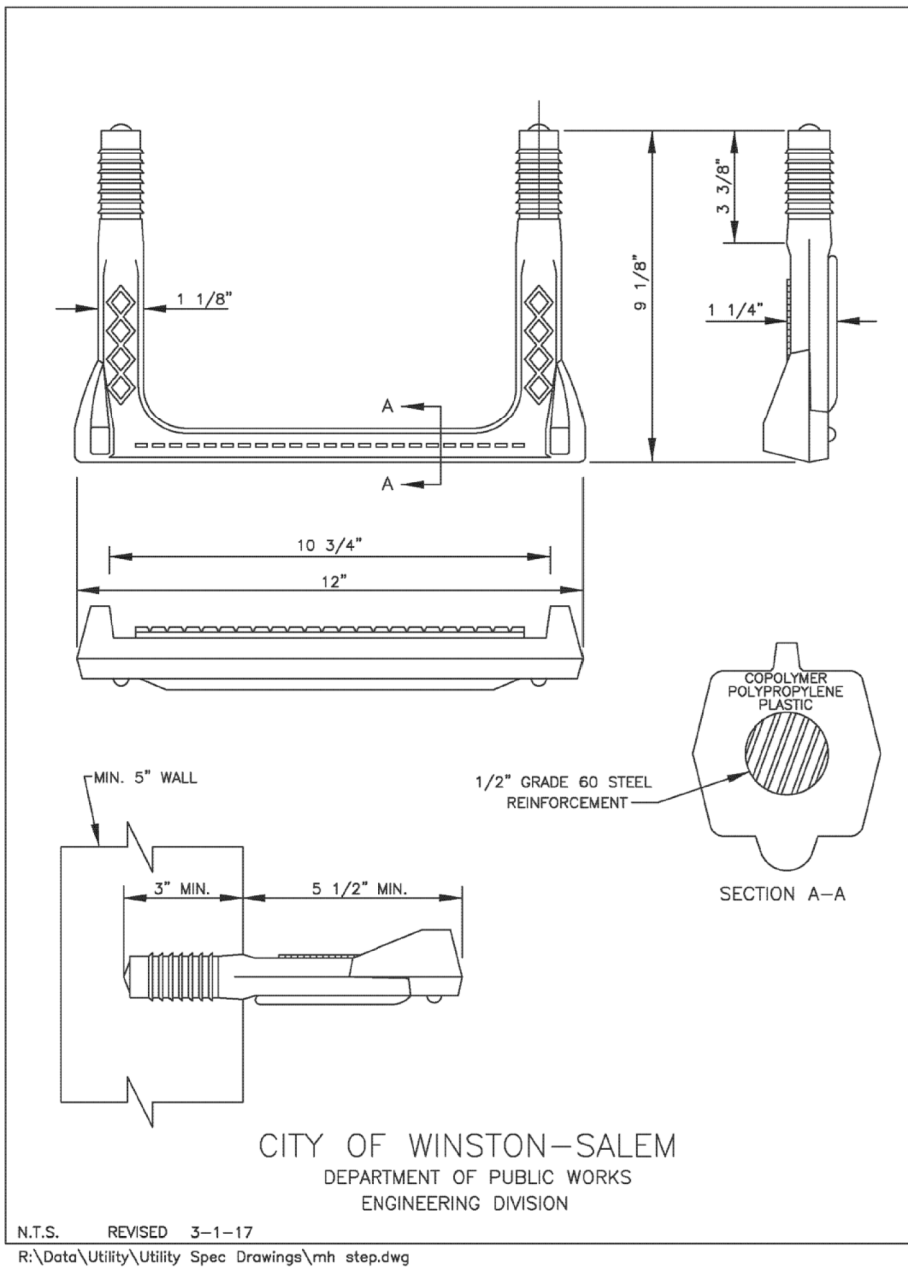
C-17

Manhole Ring and Cover (Type 1)



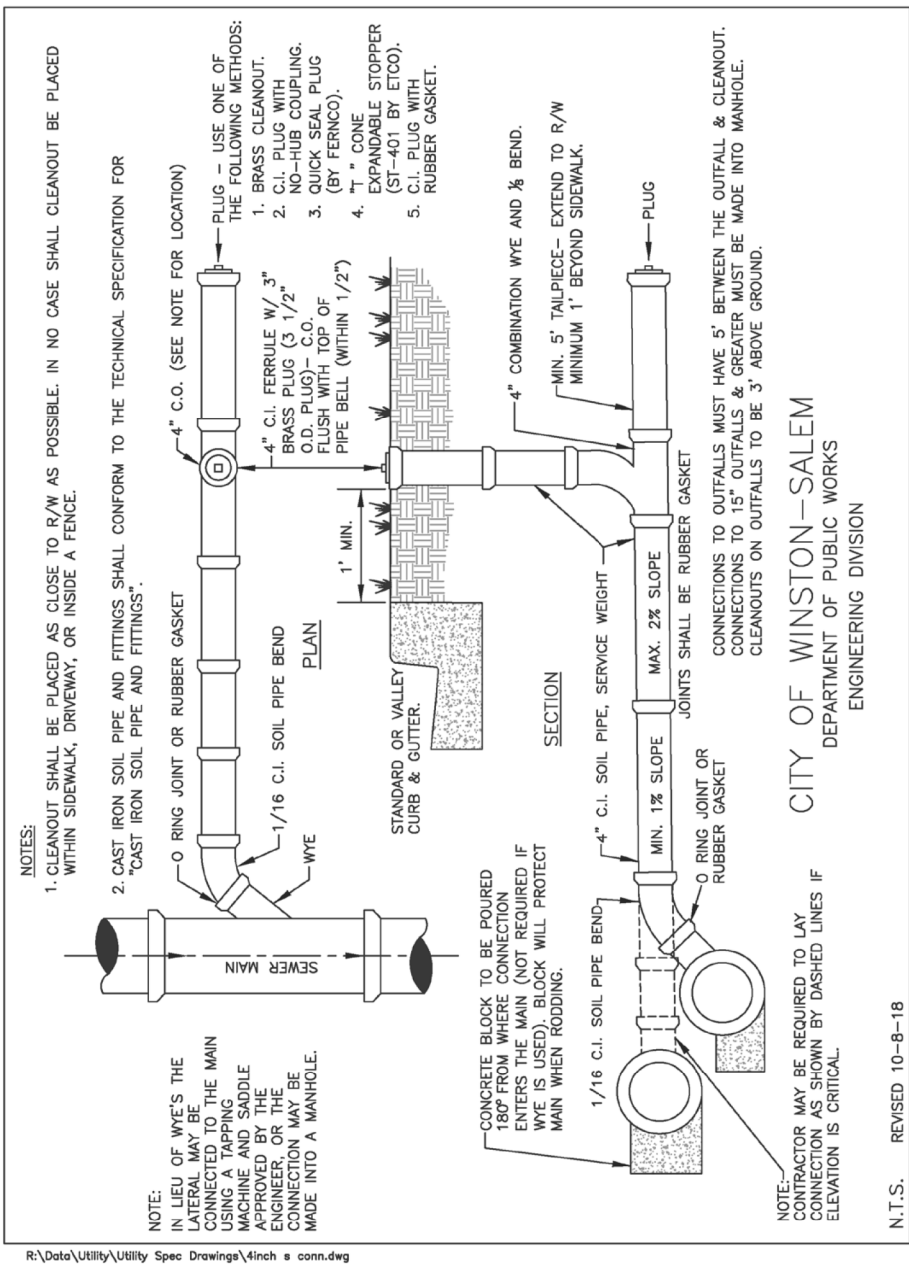
C-18

Polypropylene Manhole Step



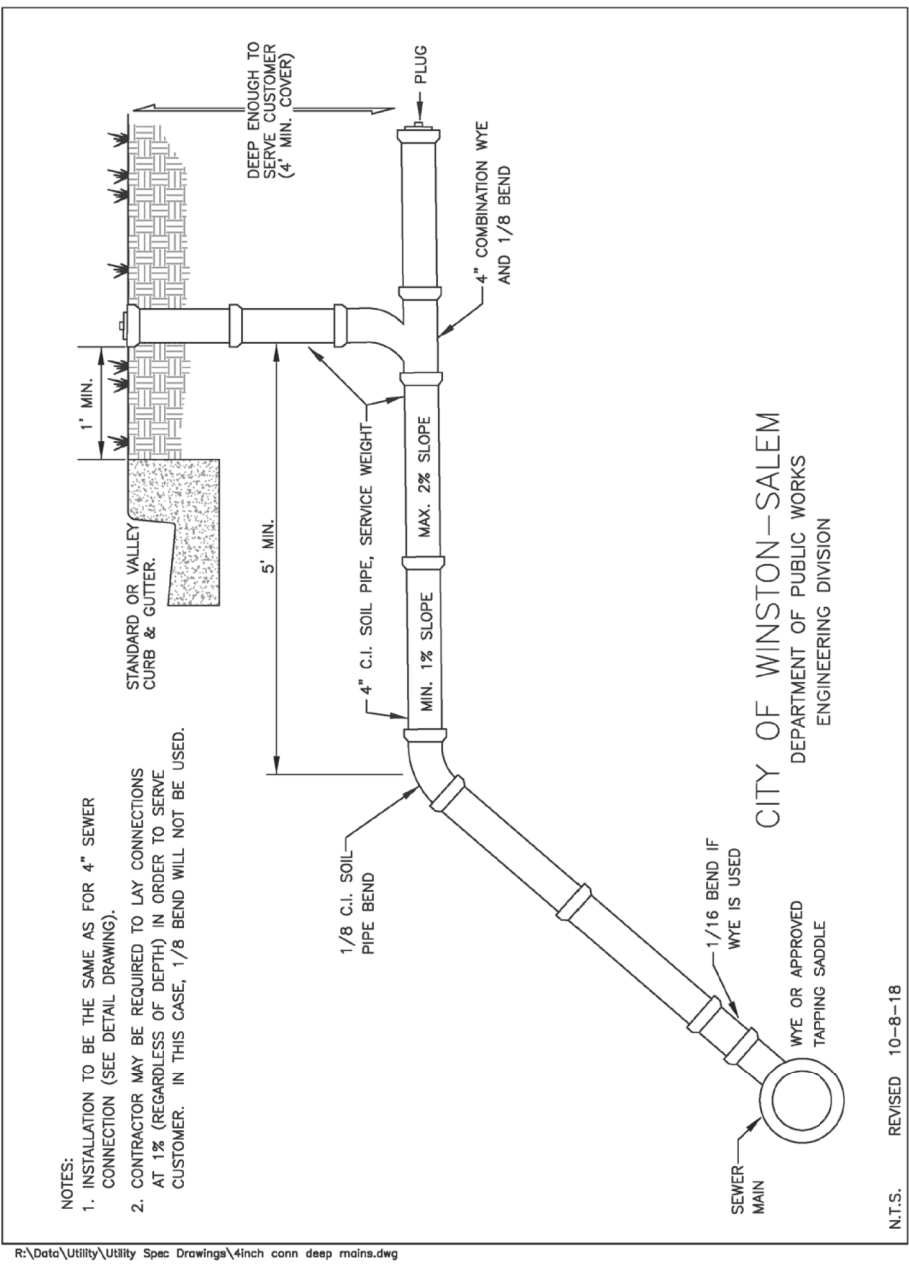
C-21

4" Sewer Connection



C-22

4" Sewer Connection for Deep Mains

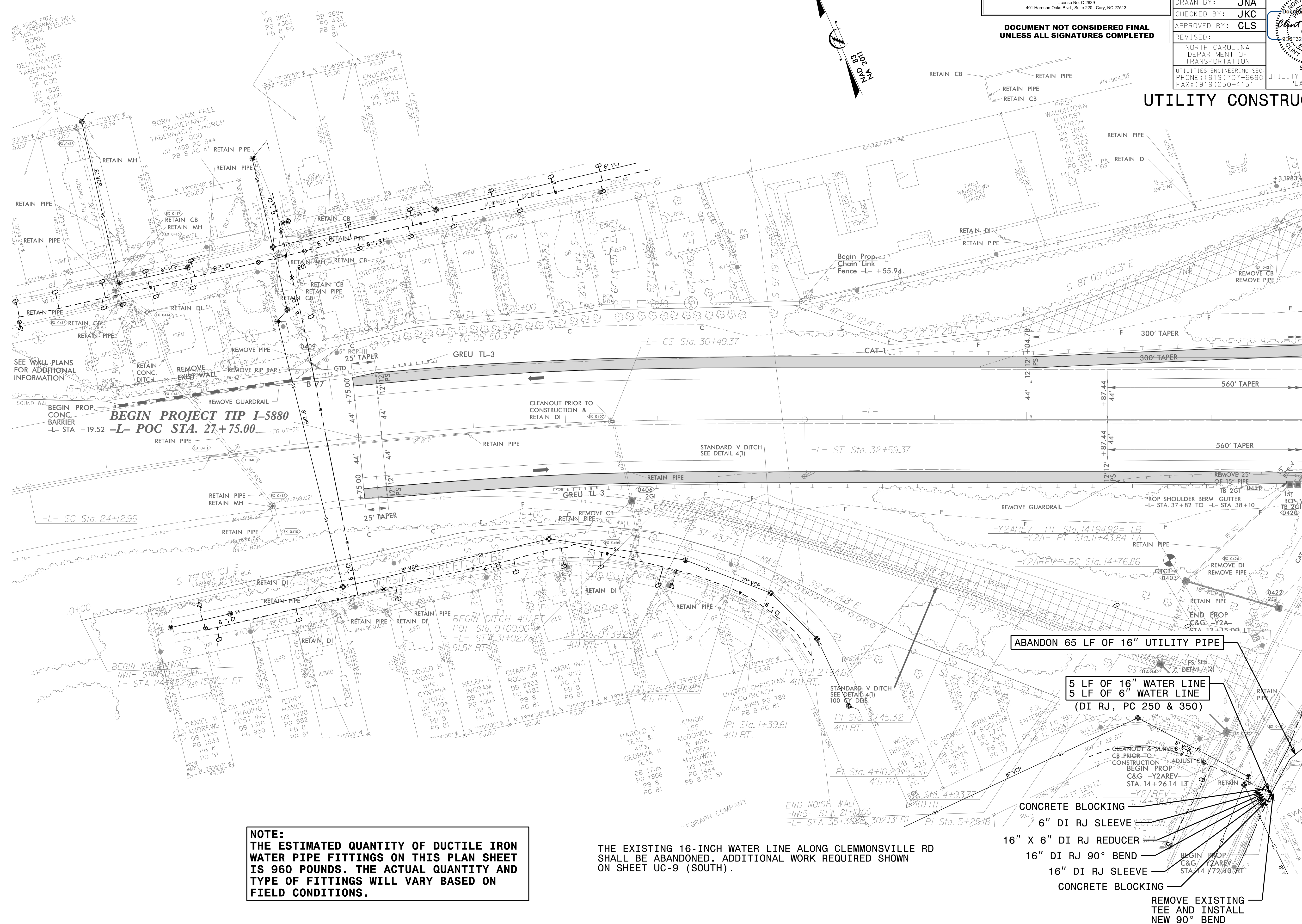


C-23

PROJECT REFERENCE NO.		SHEET NO.	
I-5880		UC-4	
DESIGNED BY: JKC		6/6/2025 UTILITIES CONSTRUCTION PLANS ONLY	
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CHECKED BY: JKC			
APPROVED BY: CLS			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION

MATCH LINE STA. 38+00.00 SEE SHEET UC-5



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 960 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

THE EXISTING 16-INCH WATER LINE ALONG CLEMMONSVILLE RD
SHALL BE ABANDONED. ADDITIONAL WORK REQUIRED SHOWN
ON SHEET UC-9 (SOUTH).

ABANDON 65 LF OF 16" UTILITY PIPE

5 LF OF 16" WATER LINE
5 LF OF 6" WATER LINE
(DI RJ, PC 250 & 350)

CONCRETE BLOCKING

16" X 6" DI RJ REDUCER

16" DI RJ 90° BEND —

16" DI RJ SLEEVE -

CONCRETE BLOCKING -

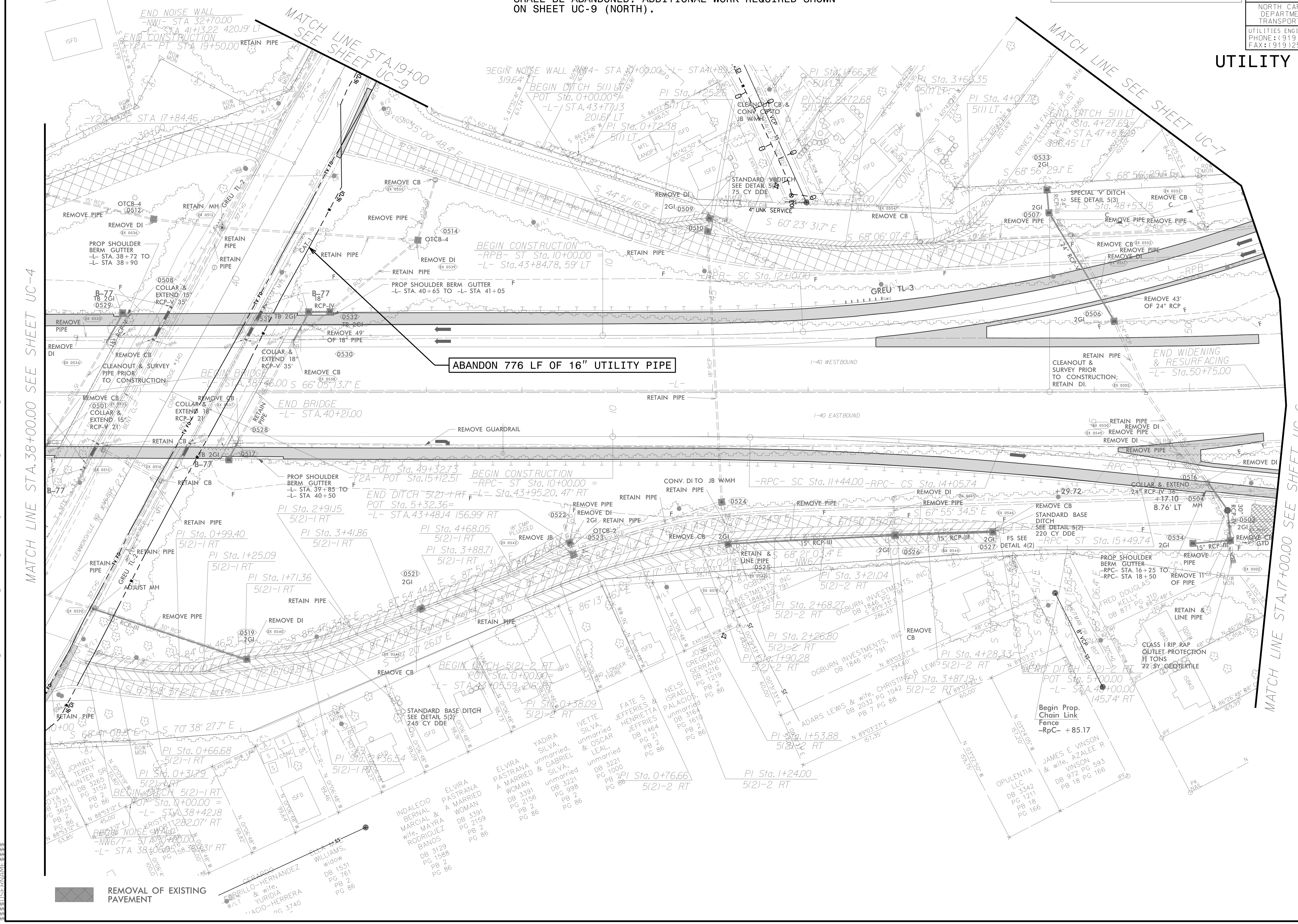
REMOVE EXISTING
TEE AND INSTALL
NEW 90° BEND

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PROJECT REFERENCE NO.		SHEET NO.	
I-5880		UC-5	
DESIGNED BY:	JKC		
DRAWN BY:	JNA		
CHECKED BY:	JKC		
APPROVED BY:	CLS		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		5/6/2025 UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
		UTILITY CONSTRUCTION PLANS ONLY	

THE EXISTING 16-INCH WATER LINE AND PORTION OF THE
EXISTING 6-INCH WATER LINE ALONG CLEMMONSVILLE RD
SHALL BE ABANDONED. ADDITIONAL WORK REQUIRED SHOWN
ON SHEET UC-9 (NORTH).

UTILITY CONSTRUCTION

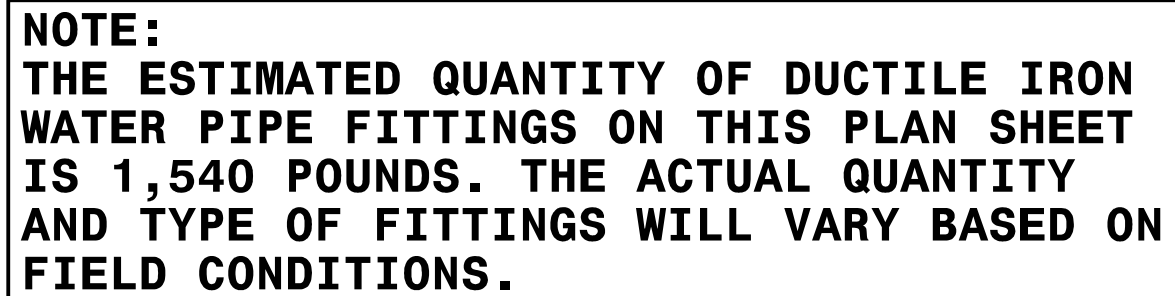


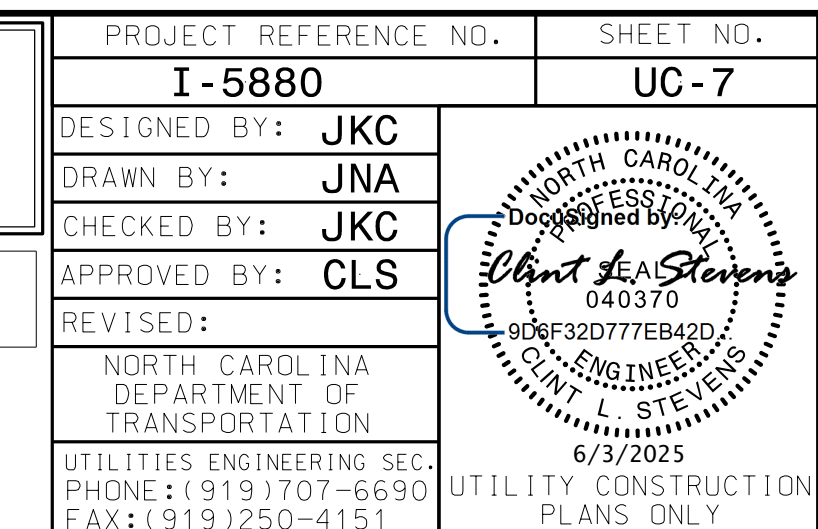
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MATCH LINE STA. 17+00.00 SEE SHEET UC-6

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Document signed by
Clint L. Stevens
040370
9D6F32D777EB42D
ENGINEER
CLINT L. STEVENS





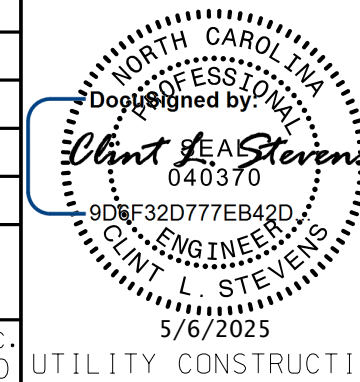
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 9,200 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.





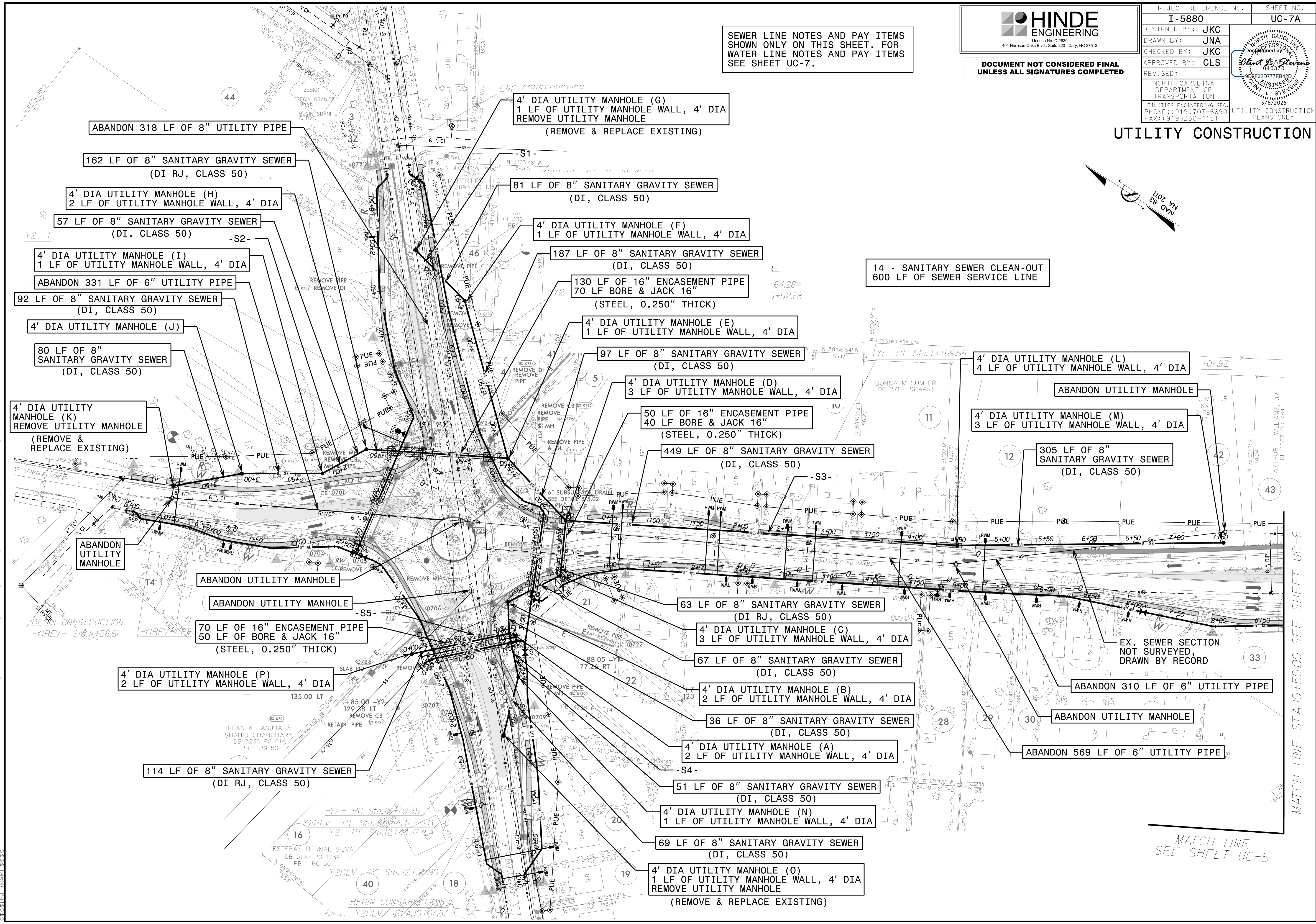
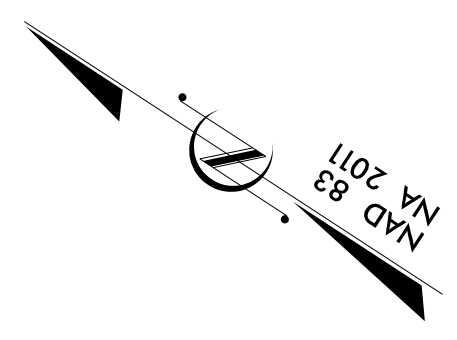
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PROJECT REFERENCE NO.		SHEET NO.
I-5880		UC-7A
DESIGNED BY: JKC		
DRAWN BY: JNA		
CHECKED BY: JKC		
APPROVED BY: CLS		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		
UTILITY CONSTRUCTION PLANS ONLY		

SEWER LINE NOTES AND PAY ITEMS
SHOWN ONLY ON THIS SHEET. FOR
WATER LINE NOTES AND PAY ITEMS
SEE SHEET UC-7.

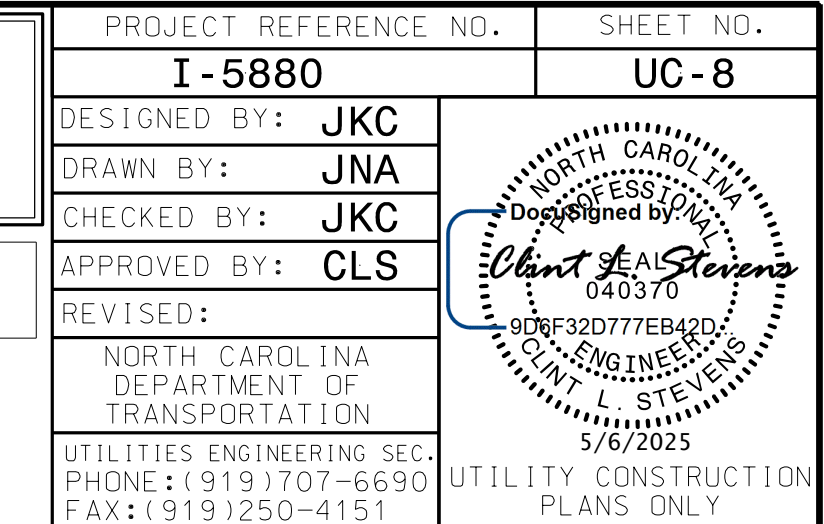
UTILITY CONSTRUCTION



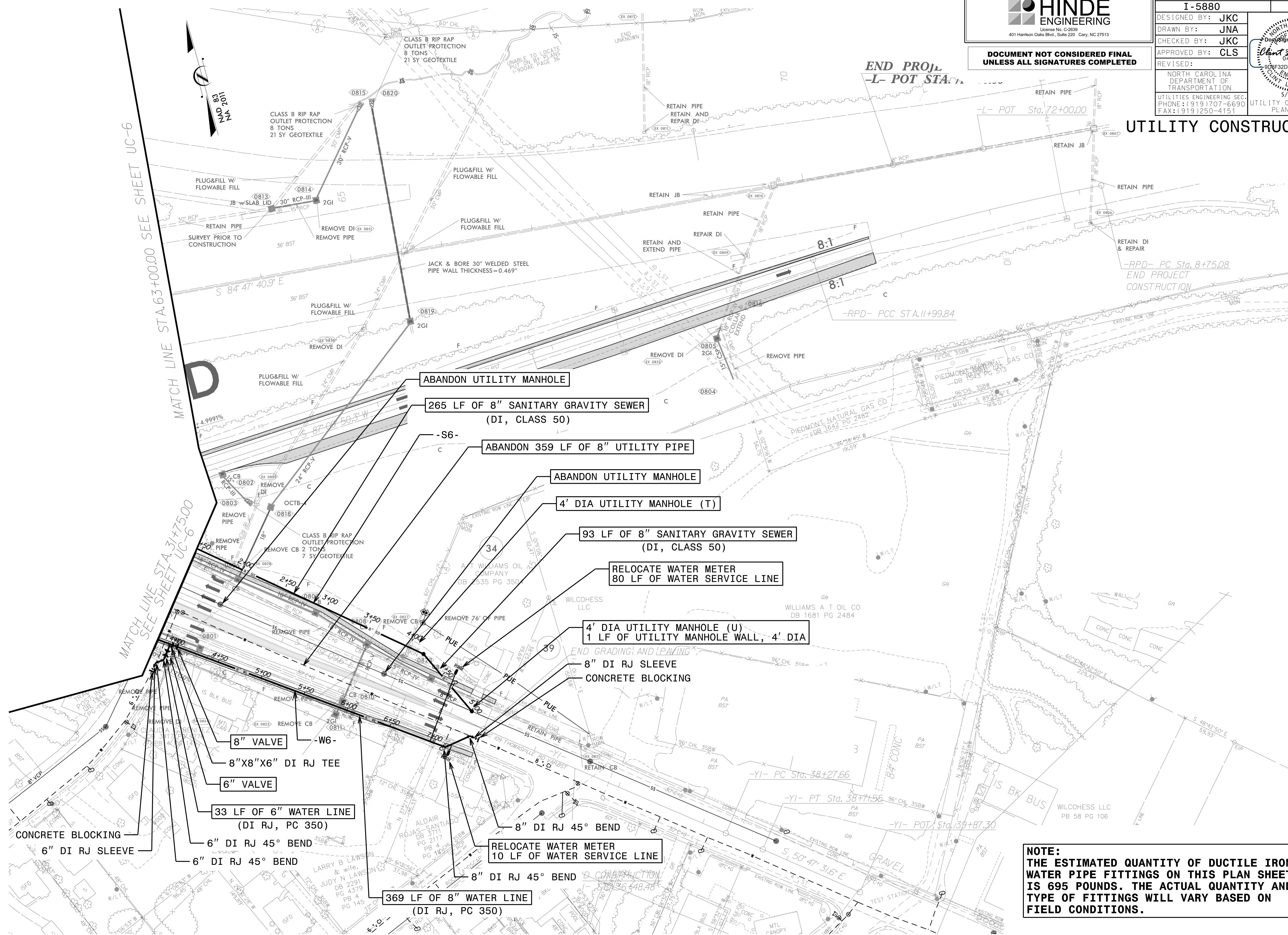
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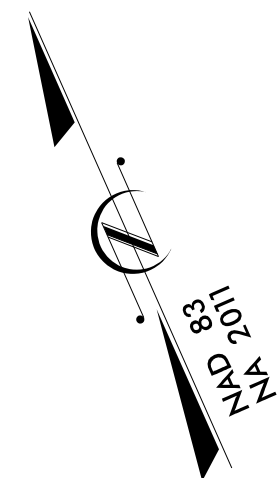
MATCH LINE STA.19+50.00 SEE SHEET UC-6

MATCH LINE
SEE SHEET UC-5

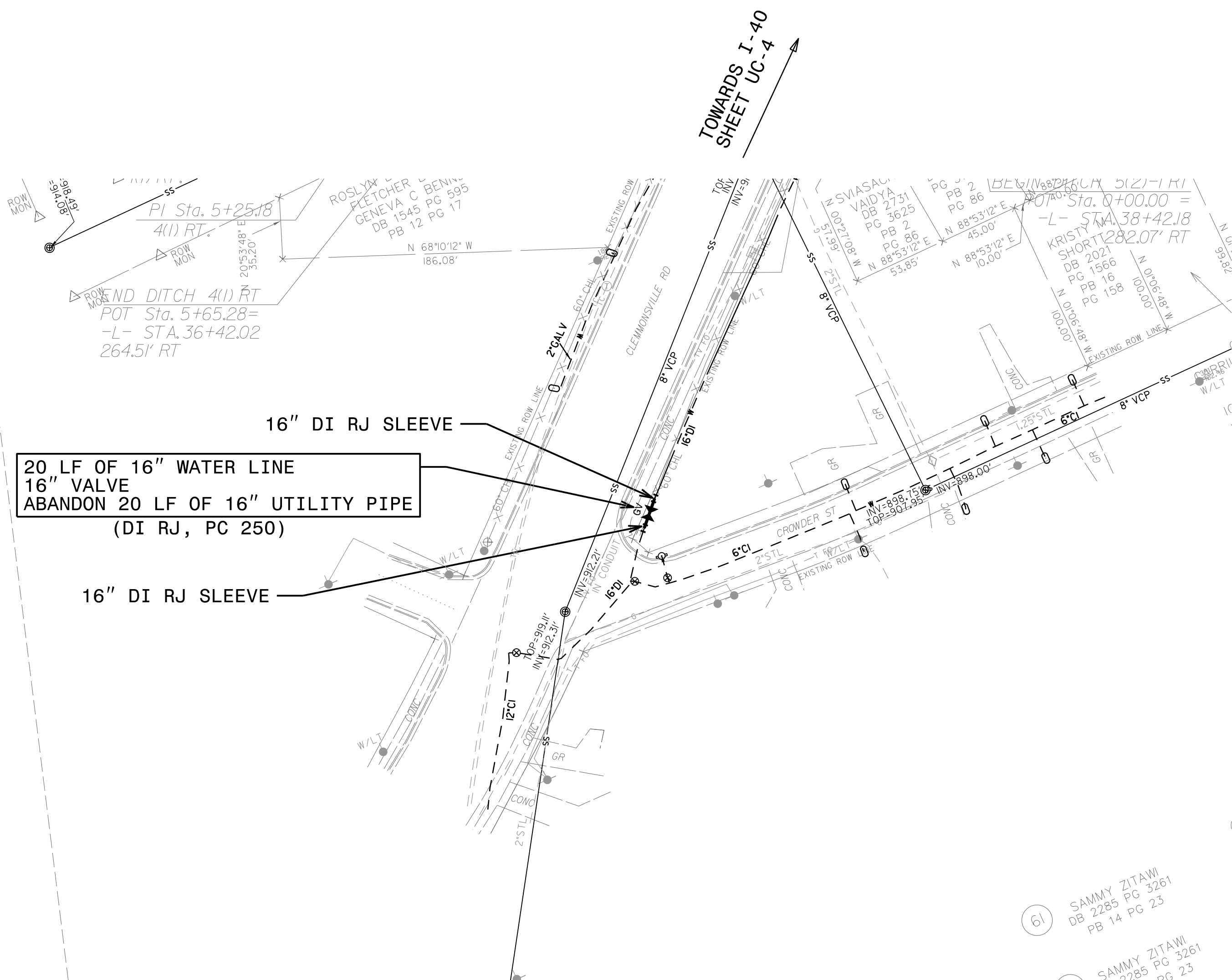


NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
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TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

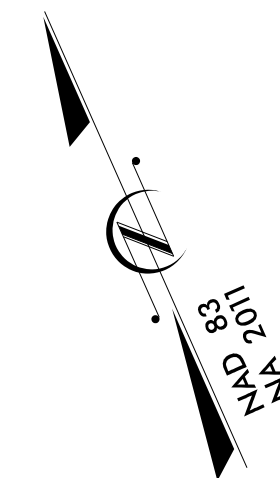




ADDITIONAL WATER LINE WORK - SOUTH



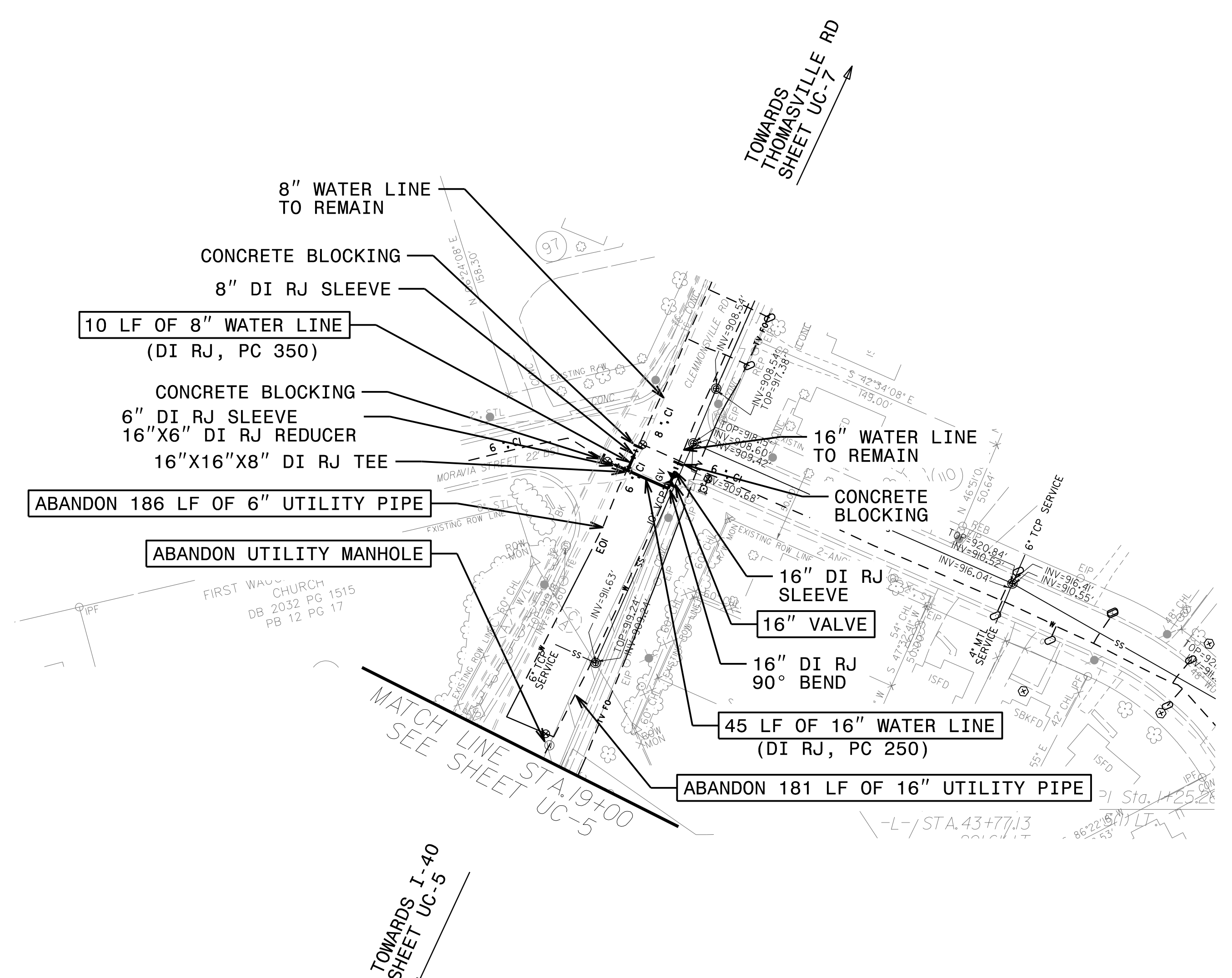
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 470 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.



 HINDE ENGINEERING License No. C-2639 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513	PROJECT REFERENCE NO.		SHEET NO.
	I-5880		UC-9
	DESIGNED BY: JKC		
	DRAWN BY: JNA		
	CHECKED BY: JKC		
APPROVED BY: CLS			
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			
		UTILITIES CONSTRUCTION PLANS ONLY	

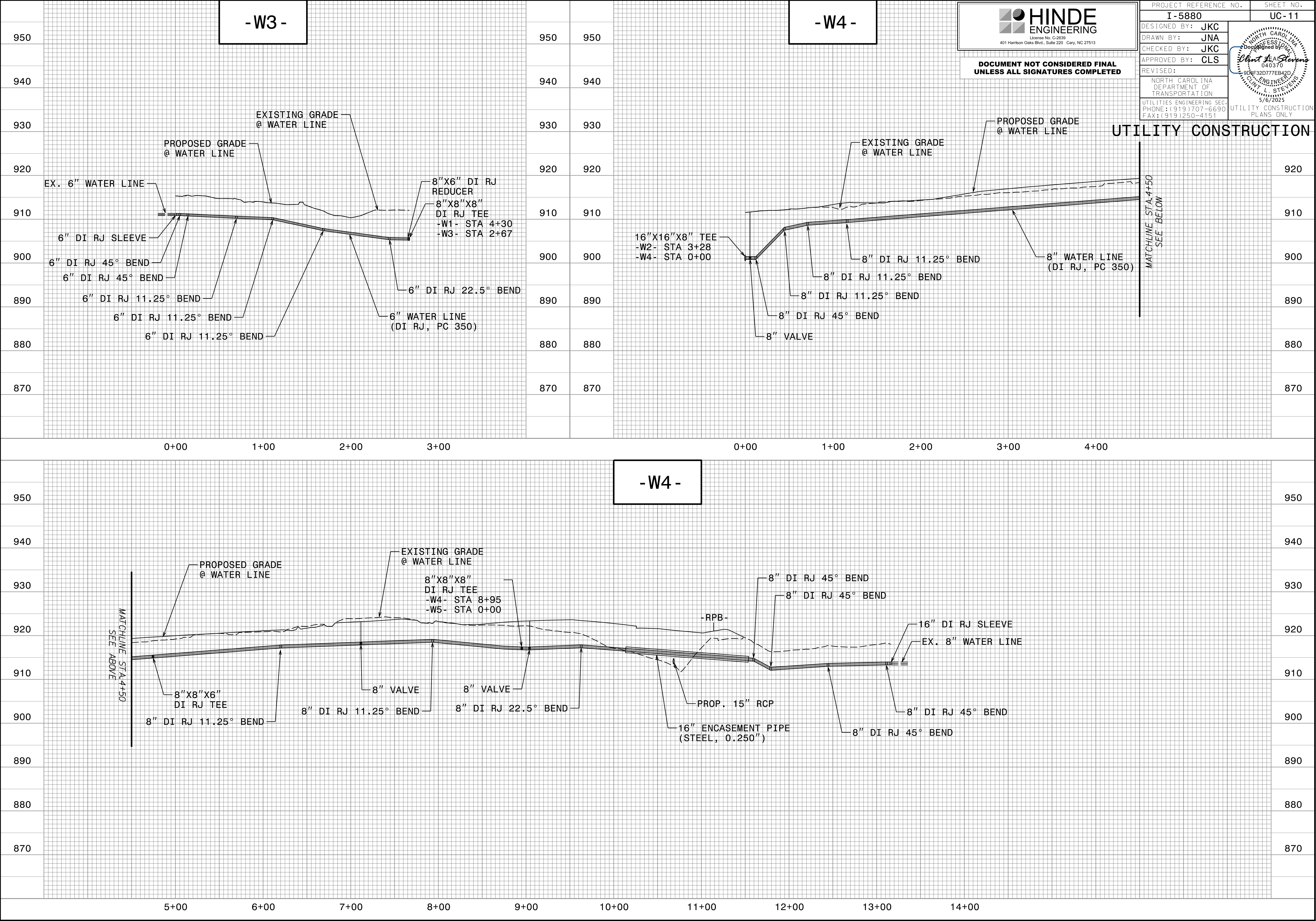
UTILITY CONSTRUCTION	
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ADDITIONAL WATER LINE WORK - NORTH

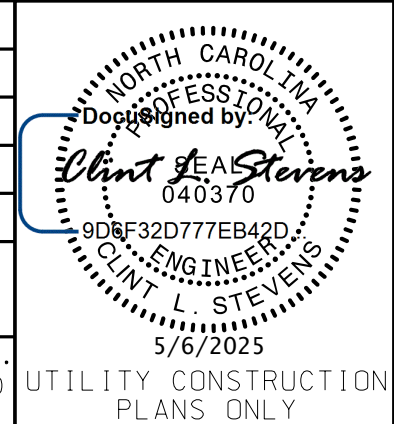


**NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 1,535 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.**





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HINDE
ENGINEERING
License No. C-2639
401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

PROJECT REFERENCE NO.		SHEET NO.	
I-5880		UC-15	
DESIGNED BY: JKC			
DRAWN BY: JNA			
CHECKED BY: JKC			
APPROVED BY: CLS			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		040370 006F32077EB42D ENGINEER CLINT L. STREVEN 5/6/2025	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

PROP. 15" RCP (APPX.)
 PROP. 8" WATER -W1-
 EXISTING GRADE @ SEWER LINE
 4' DIA UTILITY MANHOLE (P)
 -S5- STA. 0+00
 TOP ELEV. = 909.96
 PROP. INV IN = 902.09
 EX. INV OUT = 901.92
 EX. 10" SEWER LINE
 8" SANITARY GRAVITY SEWER @ 0.50% (DI RJ, CLASS 50)
 16" ENCASEMENT PIPE (STEEL, 0.250")
 40 LF JACK & BORE
 PROPOSED GRADE @ SEWER LINE
 PROP. 15" RCP (APPX.)
 4' DIA UTILITY MANHOLE (A)
 -S1- STA. 0+00
 -S4- STA. 0+00
 -S5- STA. 1+14
 TOP ELEV. = 910.98
 PROP. INV IN = 902.79 -S4-
 PROP. INV IN = 902.69 -S1-
 PROP. INV OUT = 902.69 -S5-
 -Y2-
 0+00 1+00 2+00

4' DIA UTILITY MANHOLE (R)
-S6- STA. 0+14
TOP ELEV. = 918.32
PROP. INV IN = 910.75
PROP. INV OUT = 910.55

4' DIA UTILITY MANHOLE (Q)
-S6- STA. 0+00
TOP ELEV. = 918.18
PROP. INV IN = 910.38
EX. INV OUT = 910.28

4' DIA UTILITY MANHOLE (S)
-S6- STA. 1+43
TOP ELEV. = 915.53
PROP. INV IN = 911.29
PROP. INV OUT = 911.19

4' DIA UTILITY MANHOLE (U)
-S6- STA. 4+99
TOP ELEV. = 920.61
EX. INV IN = 914.08
PROP. INV OUT = 913.98

EXISTING GRADE @ SEWER LINE

PROPOSED GRADE @ SEWER LINE

EX. 15" RCP (APPX.)

EX. 8" SEWER LINE

8" SANITARY GRAVITY SEWER @ 0.50% (DI, CLASS 50)

8" SANITARY GRAVITY SEWER @ 0.50% (DI RJ, CLASS 50)

PROP. 8" WATER -W6-

16" ENCASEMENT PIPE (STEEL, 0.250")

75 LF JACK & BORE

PROP. 18" RCP (APPX.)

8" SANITARY GRAVITY SEWER @ 0.50% (DI, CLASS 50)

8" SANITARY GRAVITY SEWER @ 0.50% (DI, CLASS 50)

0+00 1+00 2+00 3+00 4+00 5+00 6+00