

CITY OF HIGH POINT

AGENDA ITEM



TITLE: Utility Construction Agreement: U-4015A, Gallimore Dairy Road Widening Project (SR 1556)	
FROM: Robby Stone – Public Services Director Derrick Boone – Asst. Public Services Director	MEETING DATE: 3/4/2024
PUBLIC HEARING: n/a	ADVERTISED DATE/BY: n/a
ATTACHMENTS: Utility Construction Plans (color coded) Cost Estimate Utility Construction Agreement	

PURPOSE: Approval of the Utility Construction Agreement (UCA) and construction costs associated with the upcoming North Carolina Department of Transportation (NCDOT) initiated roadway widening project U-4015A on Gallimore Dairy Road (SR 1556).

BACKGROUND: The North Carolina Department of Transportation (NCDOT) has prepared construction plans for widening Gallimore Dairy Road from NC Highway 68 – Eastchester Drive (Lynwood Smith Expy.) to south of Airpark Road in Greensboro

This project will require incidental water and sewer improvements which will be accomplished in conjunction with this NCDOT project. The City of High Point owns water and sewer utilities that will be impacted by the project’s construction and will be responsible for a portion of the utility construction costs in the estimated amount of \$74,161. This amount is representative of non-betterment utility construction on water and sewer utilities that were previously located in NCDOT right-of-way. The City of High Point water and sewer utilities are located between S. Chimney Rock Road and NC Highway 68. All utility work will be performed by the NCDOT’s construction contractor.

This NCDOT project is scheduled for bid letting in December 2024 and construction is expected to last 3 years.

BUDGET IMPACT: The utility construction estimated costs are \$74,161. The NCDOT will perform the utility work within their contract and send the City an invoice once the project is completed. Funds are budgeted in the Capital Improvement Plan (CIP) ahead of the estimated completion date, which is currently FY 2028.

RECOMMENDATION/ACTION REQUESTED: The Public Services Department recommends approval of the Utility Construction Agreement and that the appropriate City official and/or employee be authorized to execute all necessary documents to finalize the agreement with the NCDOT for an estimated total cost of \$74,161.



09.08/99

TIP PROJECT: U-4015A

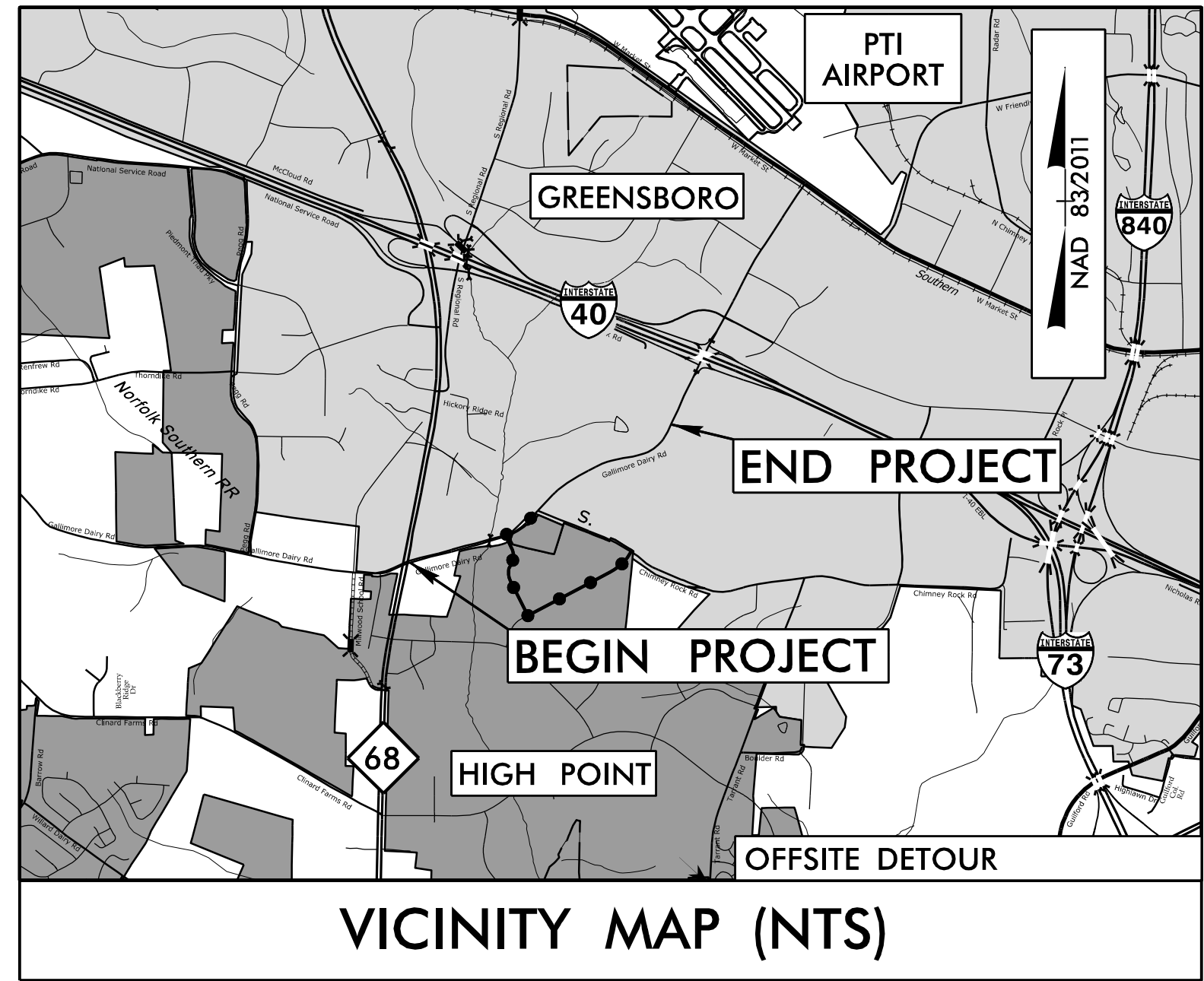
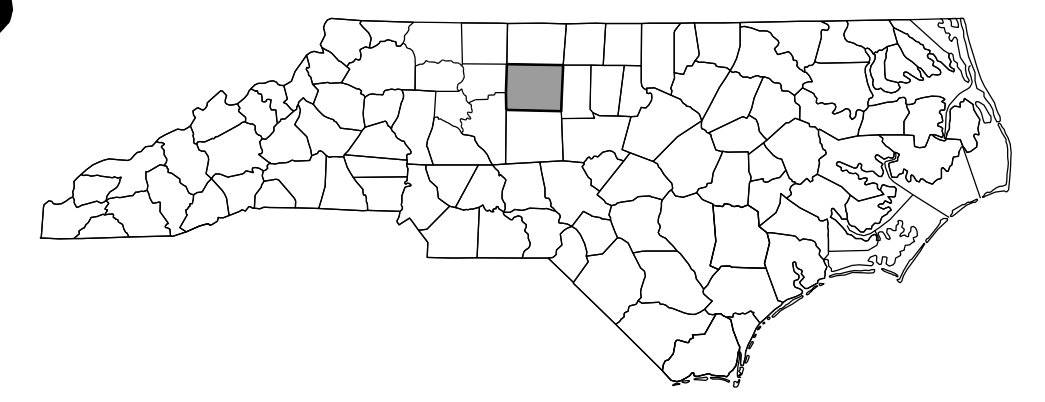
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
U-4015A	UC-1

UTILITY CONSTRUCTION PLANS GUILFORD COUNTY

LOCATION: SR 1556 (GALLIMORE DAIRY RD.) FROM NC 68 - EASTCHESTER DR (LYNWOOD SMITH EXPY.) TO SOUTH OF AIRPARK RD. IN GREENSBORO

TYPE OF WORK: UTILITY CONSTRUCTION



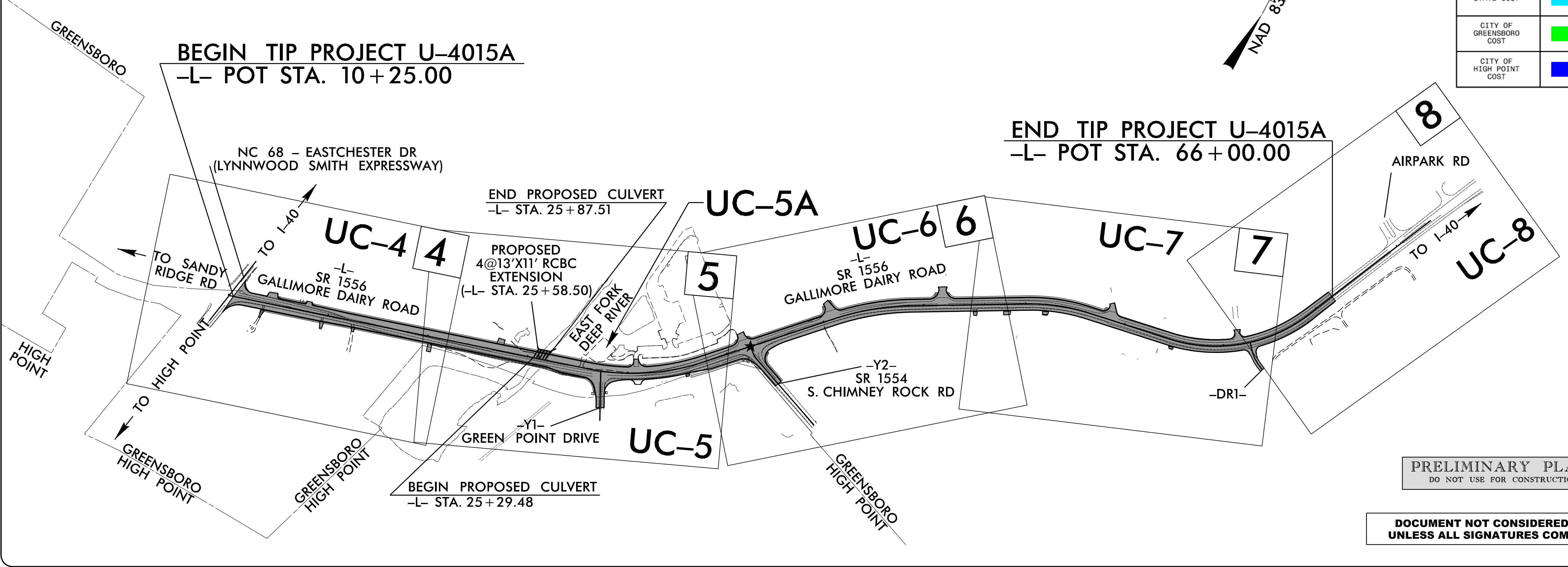
UTILITY AGREEMENT PLANS

EXHIBIT A

AGREEMENT PLANS

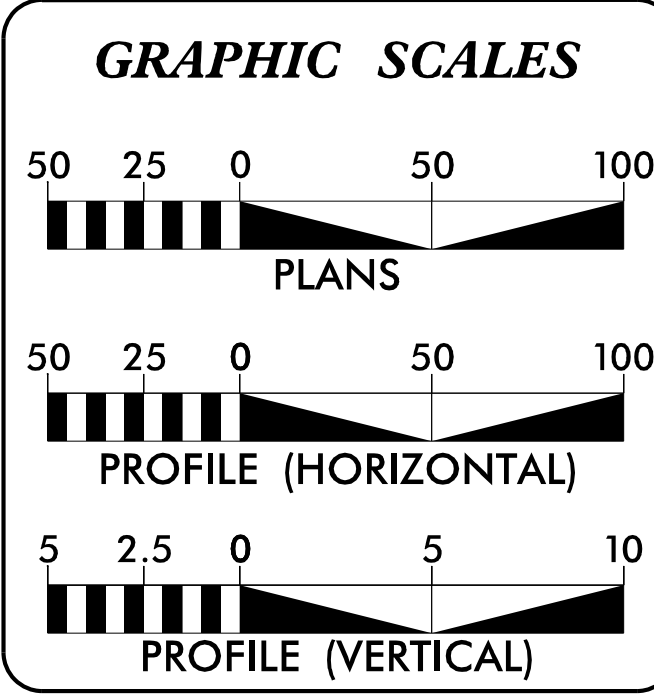
COST BREAKDOWN LEGEND

STATE COST	
CITY OF GREENSBORO COST	
CITY OF HIGH POINT COST	



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3D	DETAILS
UC-4 THRU UC-8	UTILITY CONSTRUCTION SHEETS
UC-9 THRU UC-11	PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

A) WATER - CITY OF GREENSBORO
B) SEWER - CITY OF GREENSBORO
C) WATER - CITY OF HIGH POINT
D) SEWER - CITY OF HIGH POINT

PREPARED IN THE OFFICE OF:

DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS

6415 OLD PLANK RD., HIGH POINT, NC 27265
PHONE: (336)898-4821 FAX: (336)898-4458
WWW.DMP-INC.COM LICENSE: F-0245

Andy Larrick, P.E.	CONSULTANT CONTACT #1
Steve McKee, P.E.	CONSULTANT CONTACT #2
Ralph Lowe	CONSULTANT CONTACT #3

SEAL

DIVISION OF HIGHWAYS
DIVISION 7
1584 YANCEYVILLE STREET
GREENSBORO, NC 27415-4996
PHONE: (336) 487-0000
FAX: (336) 334-3637

Pat Wilson, PE	DIVISION PROJECT DELIVERY ENGINEER
Chris Smitherman, PE	DIVISION PROJECT TEAM LEAD
Kelvin Martin	DIVISION UTILITY ENGINEER

28-DEC-2023 13:49 P:\2021\210050\NCDOT_Files\U4015A\Utilities\Engineering\UC\Proj\U4015a_ut_1_tsh_UC01_psh.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		*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		Sanitary Sewer Cleanout	
End of Information			

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

5/14/99

REV: 2/1/2012

UTILITY CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-3
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

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 WATER AND SEWER UTILITIES BELONG TO THE CITY OF GREENSBORO AND THE CITY OF HIGH POINT.
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.

PROJECT SPECIFIC NOTES:

1. UNLESS OTHERWISE NOTED, PIPE AND FITTINGS FOR PROPOSED WATER MAINS 4" DIAMETER AND LARGER SHALL BE DUCTILE IRON, PC 350.
2. UNLESS OTHERWISE NOTED, PIPE AND FITTINGS FOR PROPOSED GRAVITY SEWER MAINS 8" DIAMETER AND LARGER SHALL BE DUCTILE IRON, PC 350.
3. UNLESS OTHERWISE NOTED, PIPE AND FITTINGS FOR PROPOSED SEWER FORCE MAINS 20" DIAMETER AND LARGER SHALL BE DUCTILE IRON, PC 250.
4. THE INTERIOR OF THE PROPOSED SEWER FORCE MAIN PIPE AND FITTINGS SHALL BE LINED WITH CORROSION-RESISTANT CERAMIC EPOXY COATING AS DESCRIBED IN THE UTILITY CONSTRUCTION PROJECT SPECIAL PROVISIONS.
5. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509 OR ANSI/AWWA C515, AND SHALL BE RATED FOR A MINIMUM WORKING PRESSURE OF 250 PSI.
6. TEMPORARY BYPASS PUMPING OF FLOW IN EXISTING GRAVITY SEWER LINES WILL BE REQUIRED WHEN INSTALLING NEW SEWER LINES IN THE SAME HORIZONTAL ALIGNMENT AS THE EXISTING SEWER LINES, AND WHEN TYING PROPOSED MH'S INTO EXISTING SEWER LINES. SEE DIVISION 15, SECTION 1520-3-A-1 OF THE NCDOT STANDARD SPECIFICATIONS. COSTS FOR TEMPORARY BYPASS PUMPING SHALL BE INCIDENTAL TO THE CONTRACT.
7. 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 IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
8. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY SYSTEM OWNERS AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY WORK INVOLVING SHUT-DOWNS OF EXISTING WATER OR SEWER MAINS. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE TO CUSTOMERS WHEN EXISTING WATER MAINS HAVE TO BE SHUT DOWN FOR MORE THAN 8 HOURS.
9. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SEWER LATERALS AND/OR CLEANOUTS AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITIES HAVE BEEN ADDED TO THE CONTRACT TO FACILITATE THIS PROCEDURE.

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1520.01 SEWER CLEAN OUT

REVISIONS

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PROJECT TYPICAL DETAILS

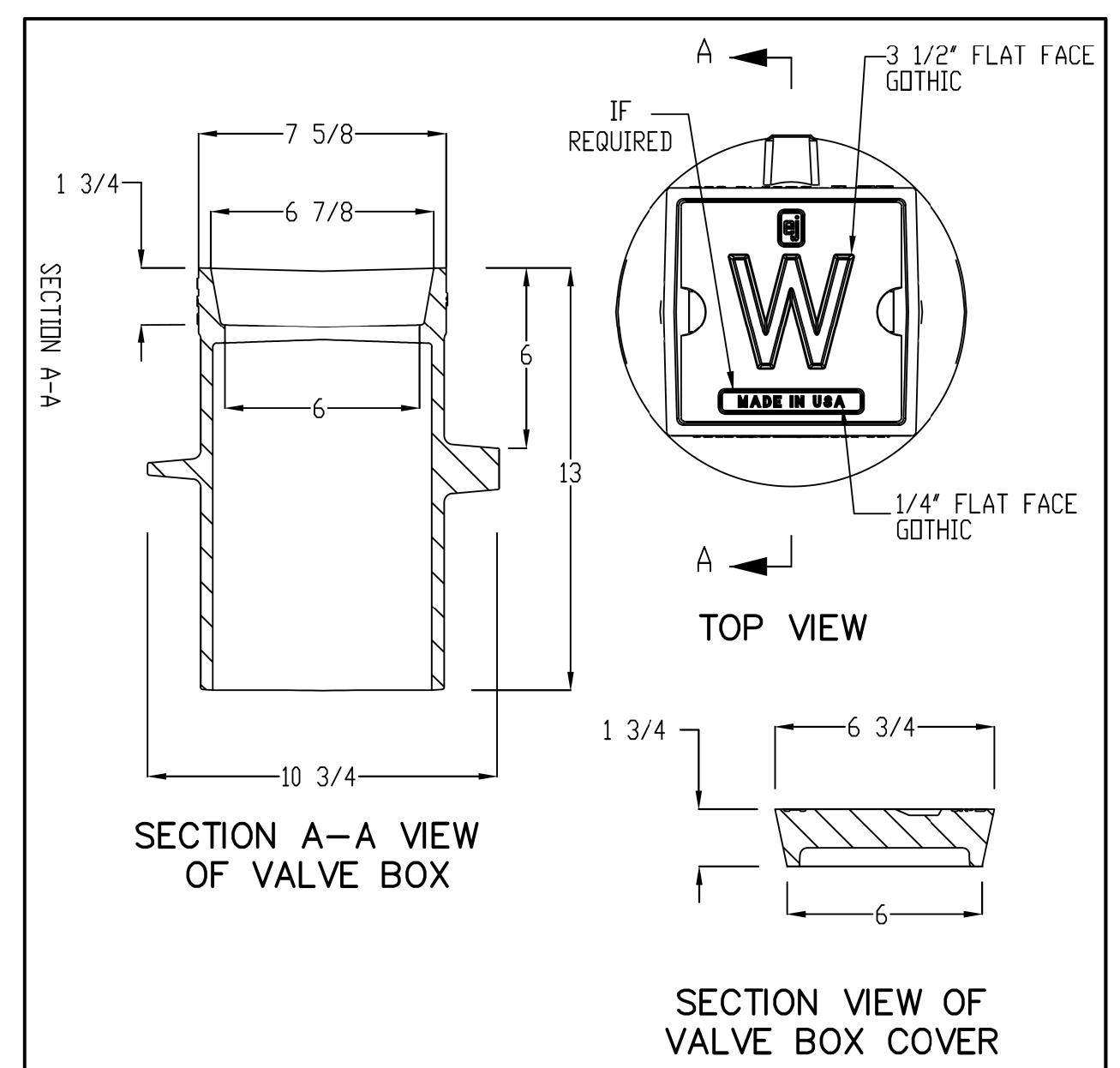
PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-3A
DESIGNED BY: DMP	
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CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

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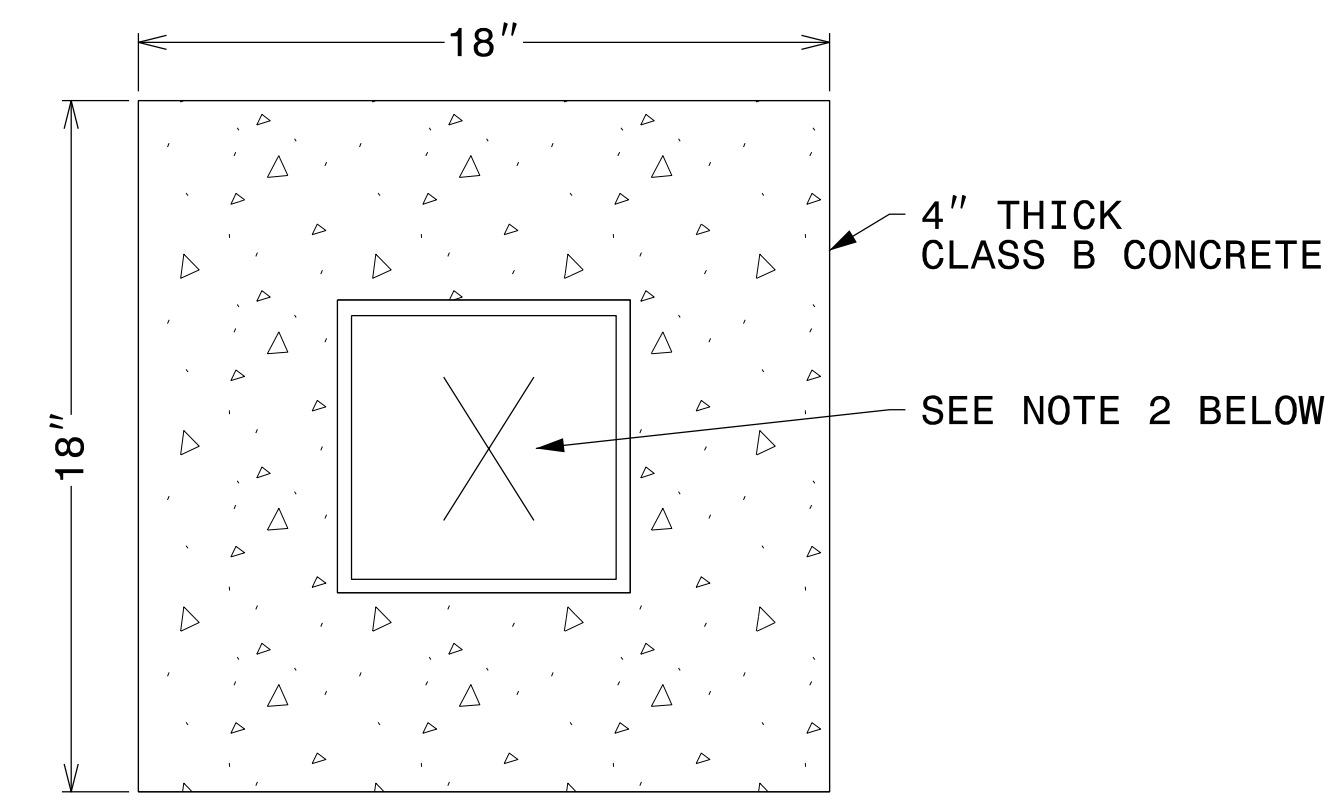
UTILITY AGREEMENT PLANS



NOTES:

1. VALVE BOX EXTENSION SHALL BE EITHER 6" DIA. SOIL PIPE OR SCH. 40 PVC PIPE.
2. EXTENSION TO BE ONE SOLID PIECE OF PIPE UNLESS BURIAL DEPTH IS GREATER THAN STANDARD LENGTH OF PIPE. A BELL OR COUPLING SHALL BE UTILIZED AT THE TOP OF VALVE CONNECTION (SEE COG STD #101).
3. LETTER HEIGHT 3-1/2"
4. COUNTERSINK LETTER 3/16"
5. TO BE USED IN PAVED OR NON-PAVED AREAS.
6. ALL CASTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M306.
7. DUE TO VARIATIONS IN CASTINGS OF DIFFERENT MANUFACTURERS, DIMENSIONS SHALL BE WITHIN REASONABLE TOLERANCES AS PRE-APPROVED BY GREENSBORO WATER RESOURCES DEPARTMENT AND/OR FIELD INSPECTOR PRIOR TO INSTALLATION.
8. VALVE BOX MAY BE REQUIRED TO BE "MADE IN U.S.A." IF FEDERAL FUNDS ARE INVOLVED.

CITY OF GREENSBORO	
WATER VALVE BOX AND EXTENSION	STD. NO. 102
	REV. 03-93 03-12 08-02 12-12 09-10 03-15

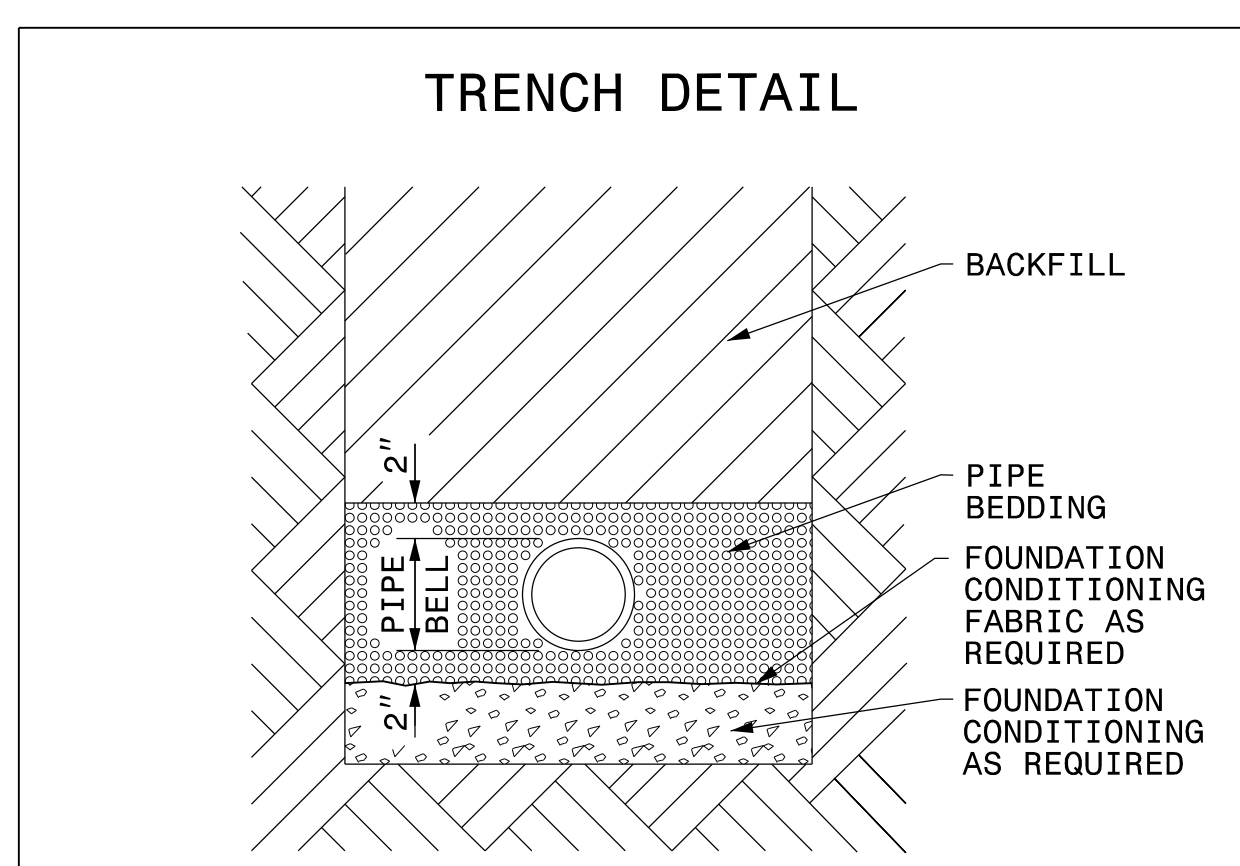


CONCRETE COLLAR FOR COG VALVE BOX

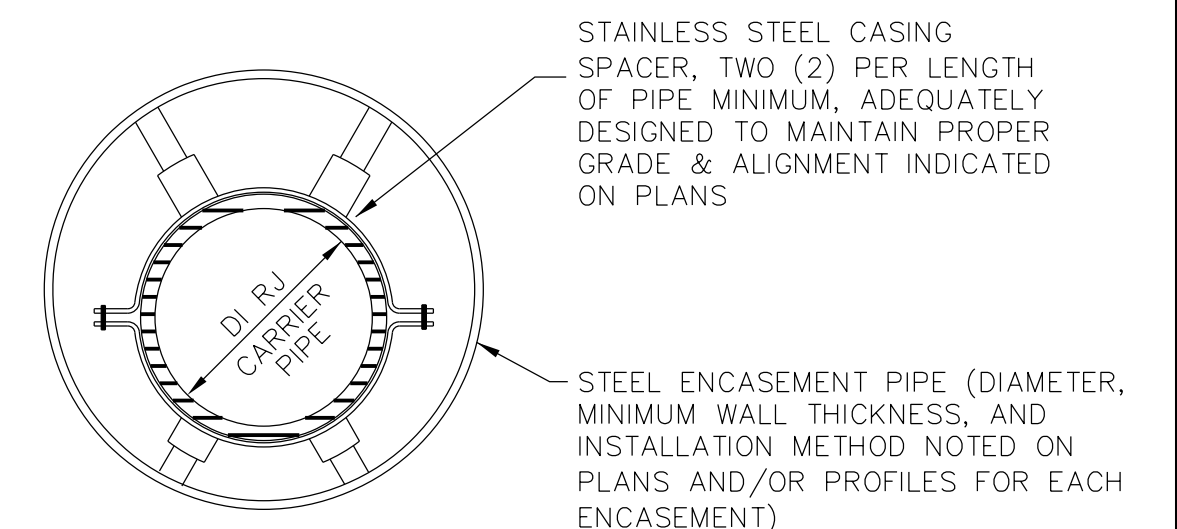
NOTES:

1. PROVIDE CONCRETE COLLARS FOR ALL VALVE BOXES THAT ARE NOT IN PAVED AREAS.
2. VALVE BOX LIDS SHALL HAVE THE LETTER "W" FOR WATER VALVES, OR "S" FOR SEWER VALVES.

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	60	84



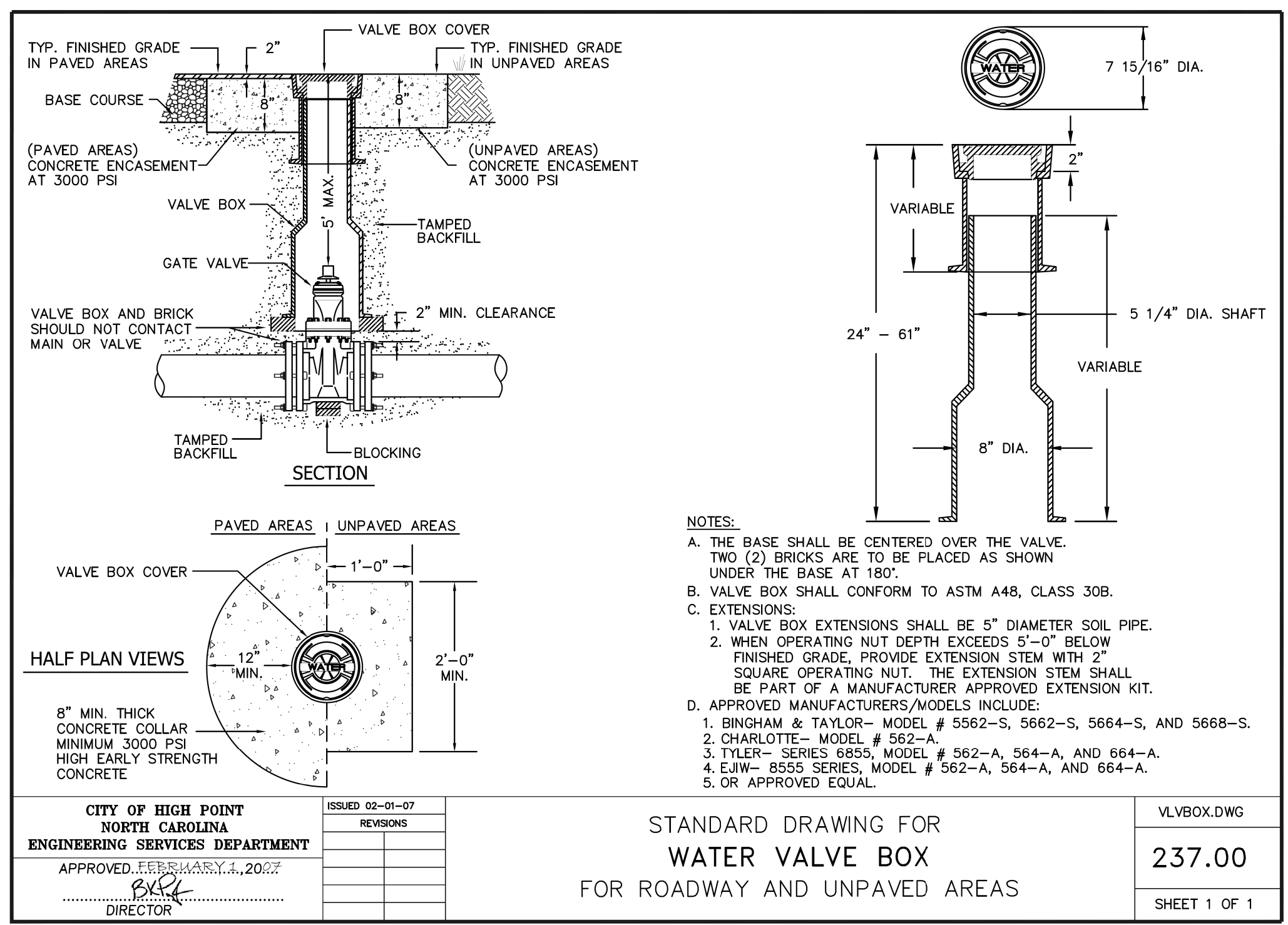
PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



NOTES:

1. ENCLOSE ENDS WITH BRICK MASONRY.
2. PROVIDE 1" WEEP HOLE AT LOW END OF ENCASEMENT.
3. SEE 2024 NCDOT STANDARD SPECIFICATIONS, DIVISION 15, SECTIONS 1540 AND 1550, FOR OTHER REQUIREMENTS.

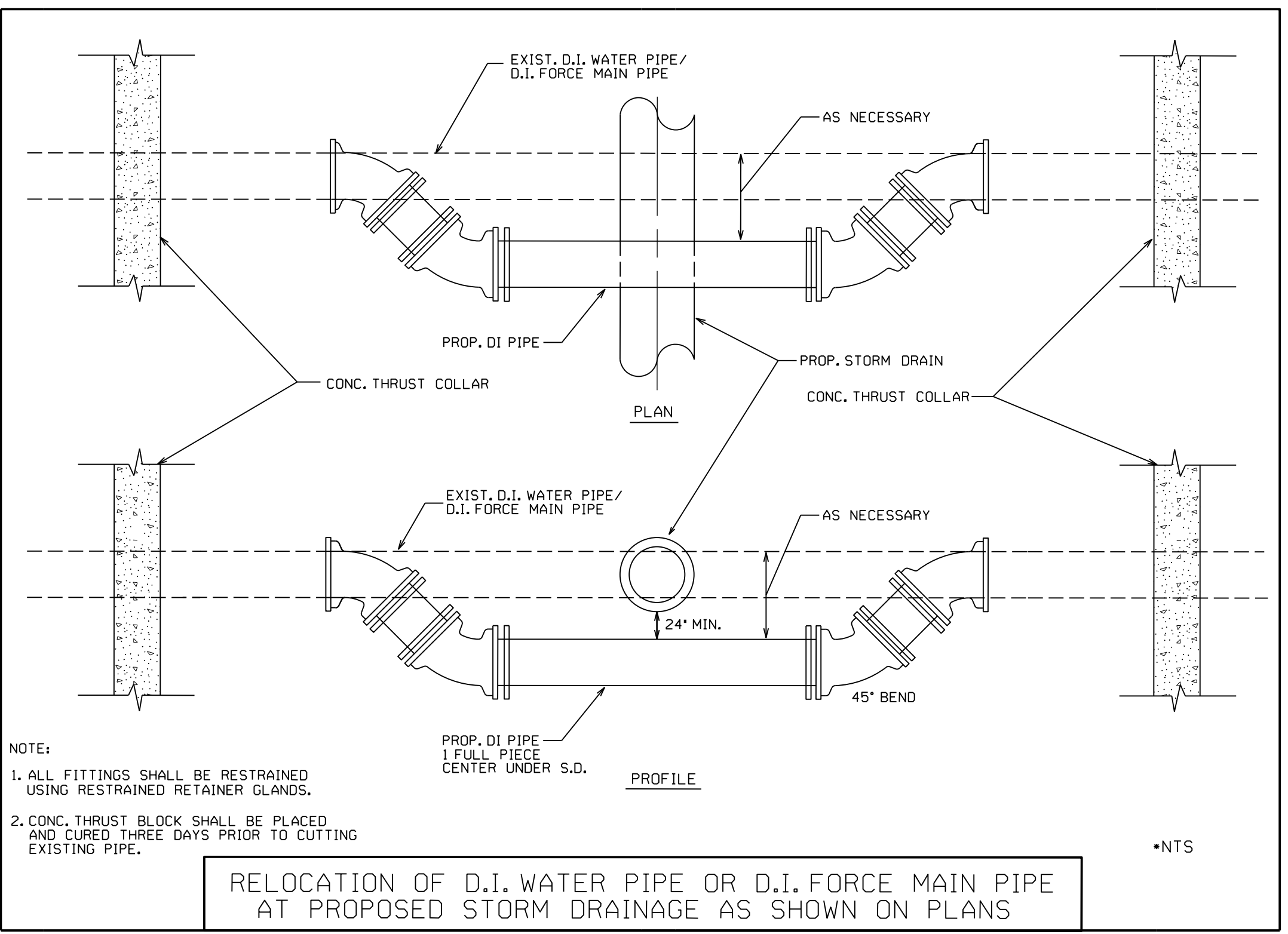
TYPICAL ENCASEMENT PIPE SECTION
N.T.S.



NOTES:

- A. THE BASE SHALL BE CENTERED OVER THE VALVE. TWO (2) BRICKS ARE TO BE PLACED AS SHOWN UNDER THE BASE AT 180°.
- B. VALVE BOX SHALL CONFORM TO ASTM A48, CLASS 30B.
- C. EXTENSIONS:
 1. VALVE BOX EXTENSIONS SHALL BE 5" DIAMETER SOIL PIPE.
 2. WHEN OPERATING NUT DEPTH EXCEEDS 5'-0" BELOW FINISHED GRADE, PROVIDE EXTENSION STEM WITH 2" SQUARE OPERATING NUT. THE EXTENSION STEM SHALL BE PART OF A MANUFACTURER APPROVED EXTENSION KIT.
- D. APPROVED MANUFACTURERS/MODELS INCLUDE:
 1. BINGHAM & TAYLOR- MODEL # 5562-S, 5662-S, 5664-S, AND 5668-S.
 2. CHARLOTTE- MODEL # 562-A.
 3. TYLER- SERIES 8855, MODEL # 562-A, 564-A, AND 664-A.
 4. E.J.W.- 8555 SERIES, MODEL # 562-A, 564-A, AND 664-A.
 5. OR APPROVED EQUAL.

CITY OF HIGH POINT		ISSUED 02-01-07	VLVBOX.DWG
NORTH CAROLINA ENGINEERING SERVICES DEPARTMENT		REVISIONS	237.00
APPROVED: [Signature] 2/22			SHEET 1 OF 1
DIRECTOR			



NOTE:

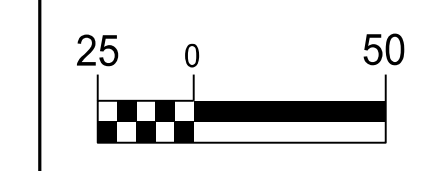
1. ALL FITTINGS SHALL BE RESTRAINED USING RESTRAINED RETAINER GLANDS.
2. CONC. THRUST BLOCK SHALL BE PLACED AND CURED THREE DAYS PRIOR TO CUTTING EXISTING PIPE.

RELOCATION OF D.I. WATER PIPE OR D.I. FORCE MAIN PIPE AT PROPOSED STORM DRAINAGE AS SHOWN ON PLANS

REVISIONS

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PROJECT TYPICAL DETAILS



PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-3B
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

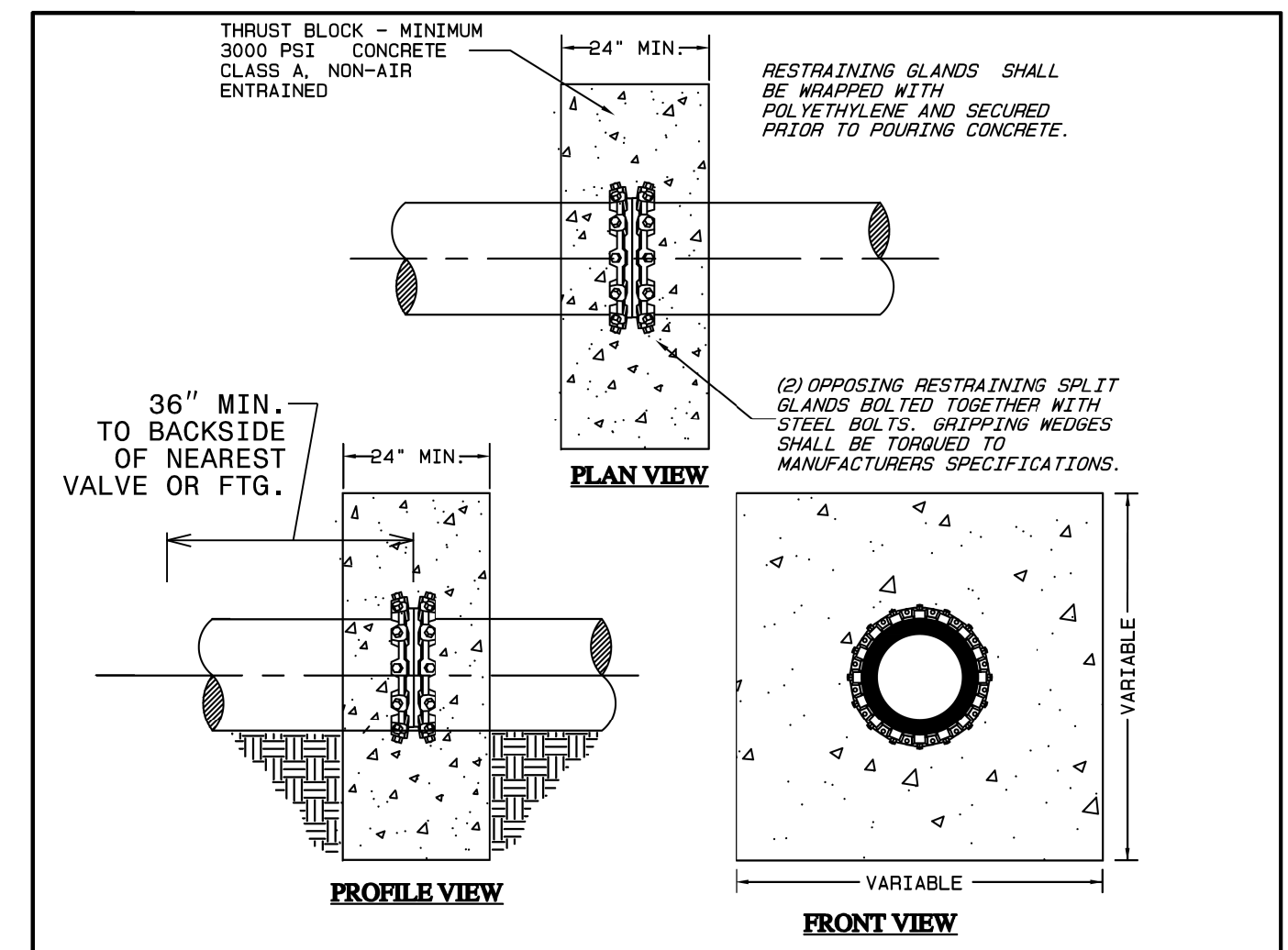
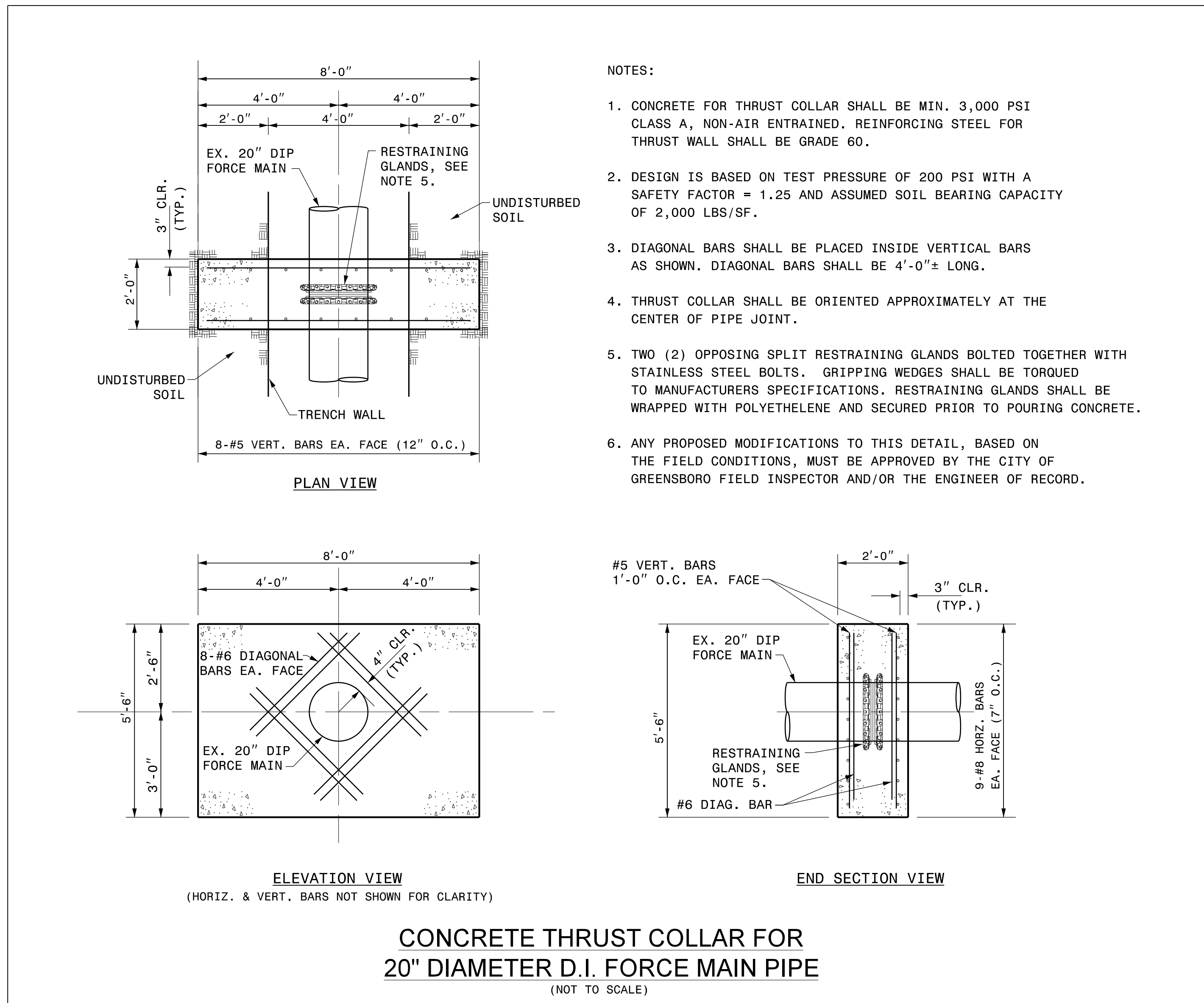
UTILITY CONSTRUCTION

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**PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION**

UTILITY AGREEMENT PLANS


REVISIONS



MINIMUM CUBIC YARDS OF CONCRETE REQUIRED			
PIPE DIAMETER	150 PSI TEST PRES.	200 PSI TEST PRES.	250 PSI TEST PRES.
6"	0.75	1.0	1.25
8"	1.5	2.0	2.25
10"	2.0	3.0	3.5
12"	3.0	4.0	5.0
16"	5.5	7.25	9.0

CITY OF GREENSBORO		
DEADMAN THRUST RESTRAINT WITH MASS WEIGHT BLOCKING	STD. NO. 118	REV. 06-13 06-15

PROJECT TYPICAL DETAILS

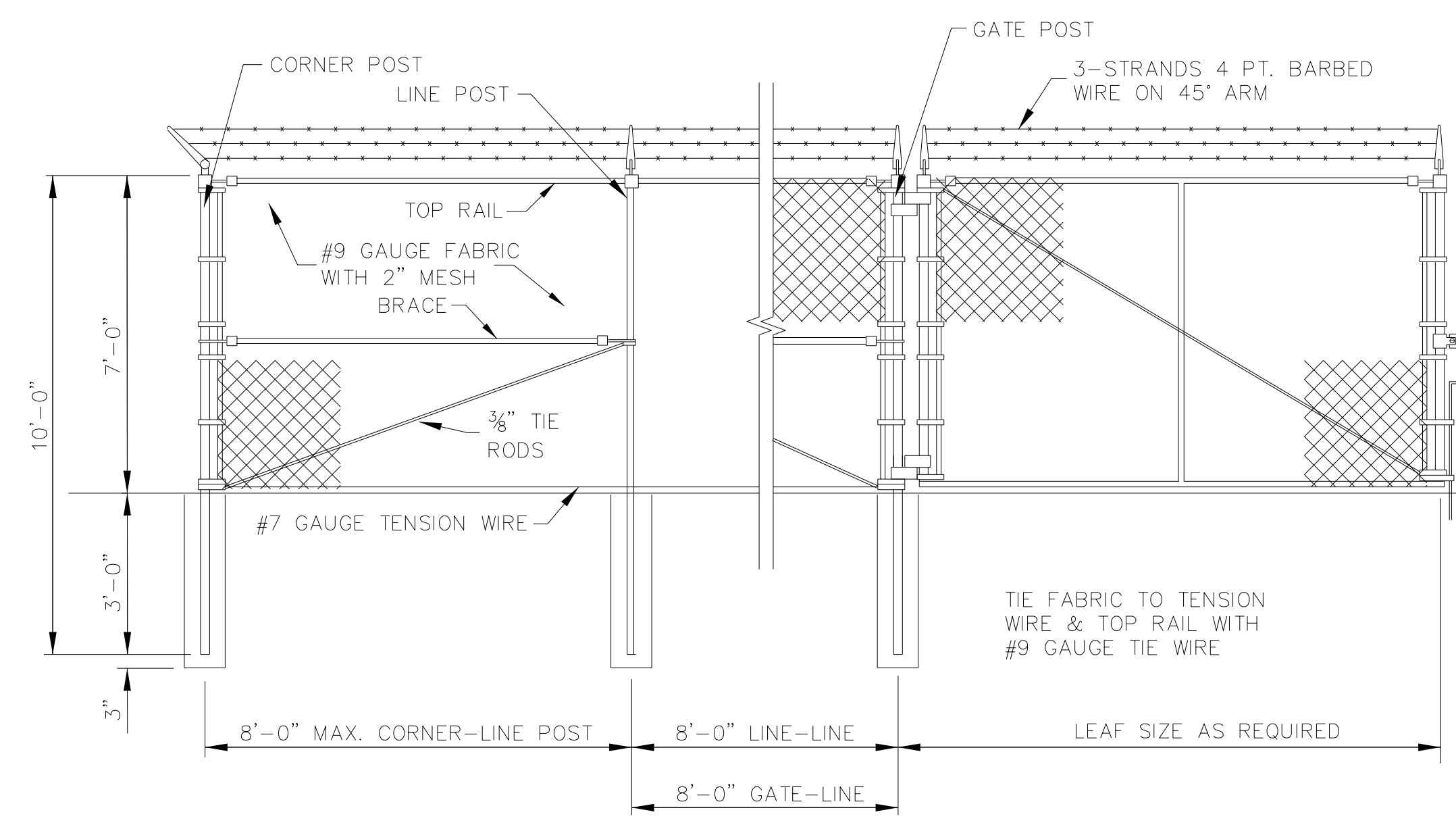
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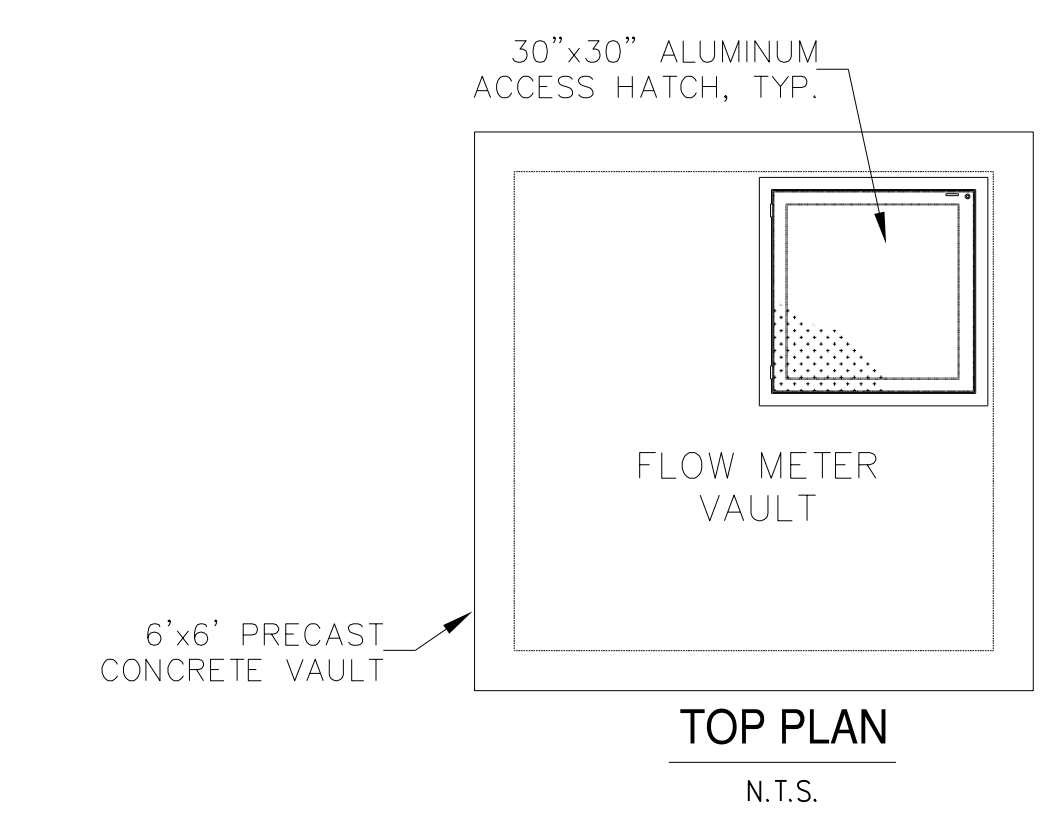
UTILITY AGREEMENT PLANS



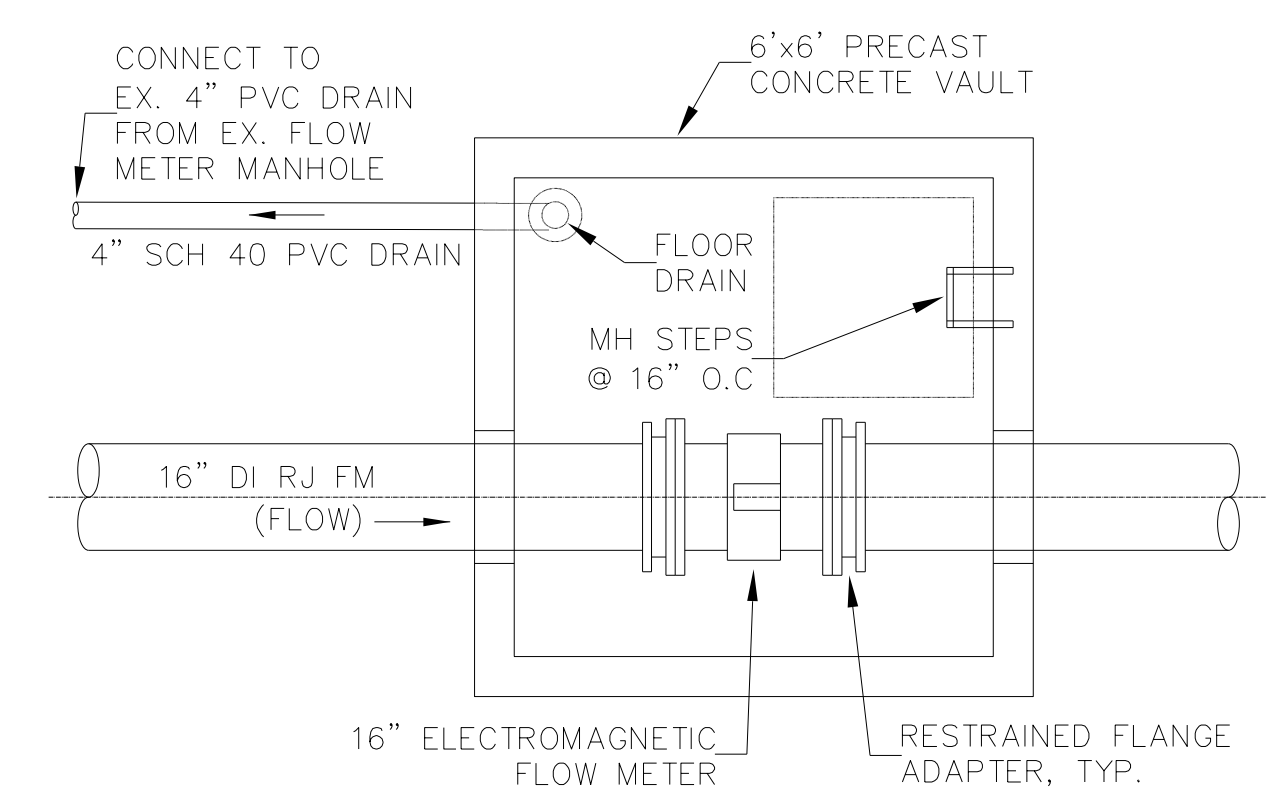
FABRIC HEIGHT	LINE POST	TOP RAIL	END/CORNER POST
4'-6"	2" O.D.	1 5/8" O.D.	2 1/2" O.D.
7'-9"	2 1/2" O.D.	1 5/8" O.D.	3" O.D.
10'-12'	3" O.D.	2" O.D.	4" O.D.
OVER 12'	4" O.D.	2" O.D.	4" O.D.

GATE LEAF SIZE	GATE POST
6' OR LESS	3" O.D.
6'-12'	3" O.D.
12'-20'	4" O.D.
20'-24'	6 5/8" O.D.
OVER 24'	8 5/8" O.D.

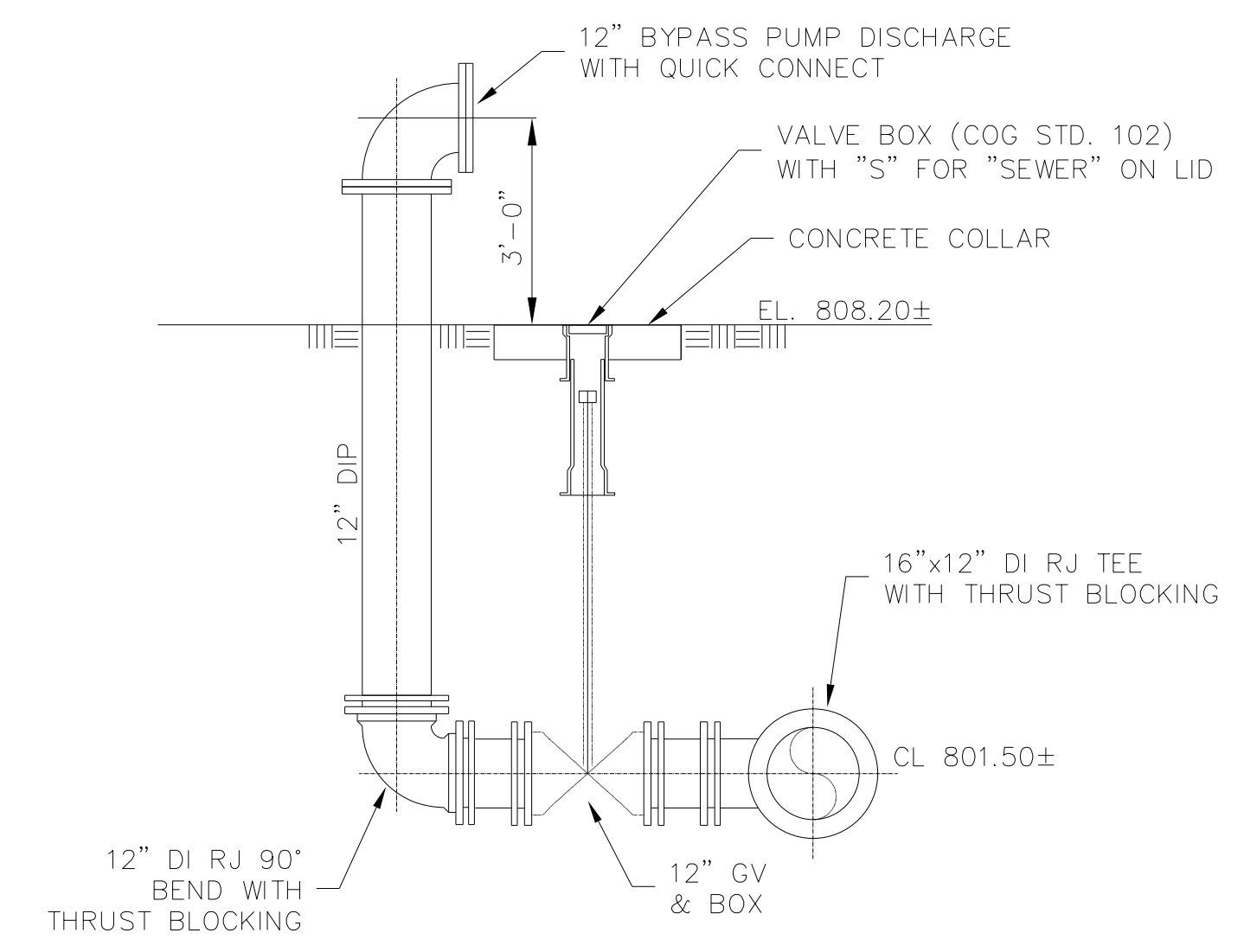
CHAIN LINK FENCE WITH BARBED WIRE
N.T.S.



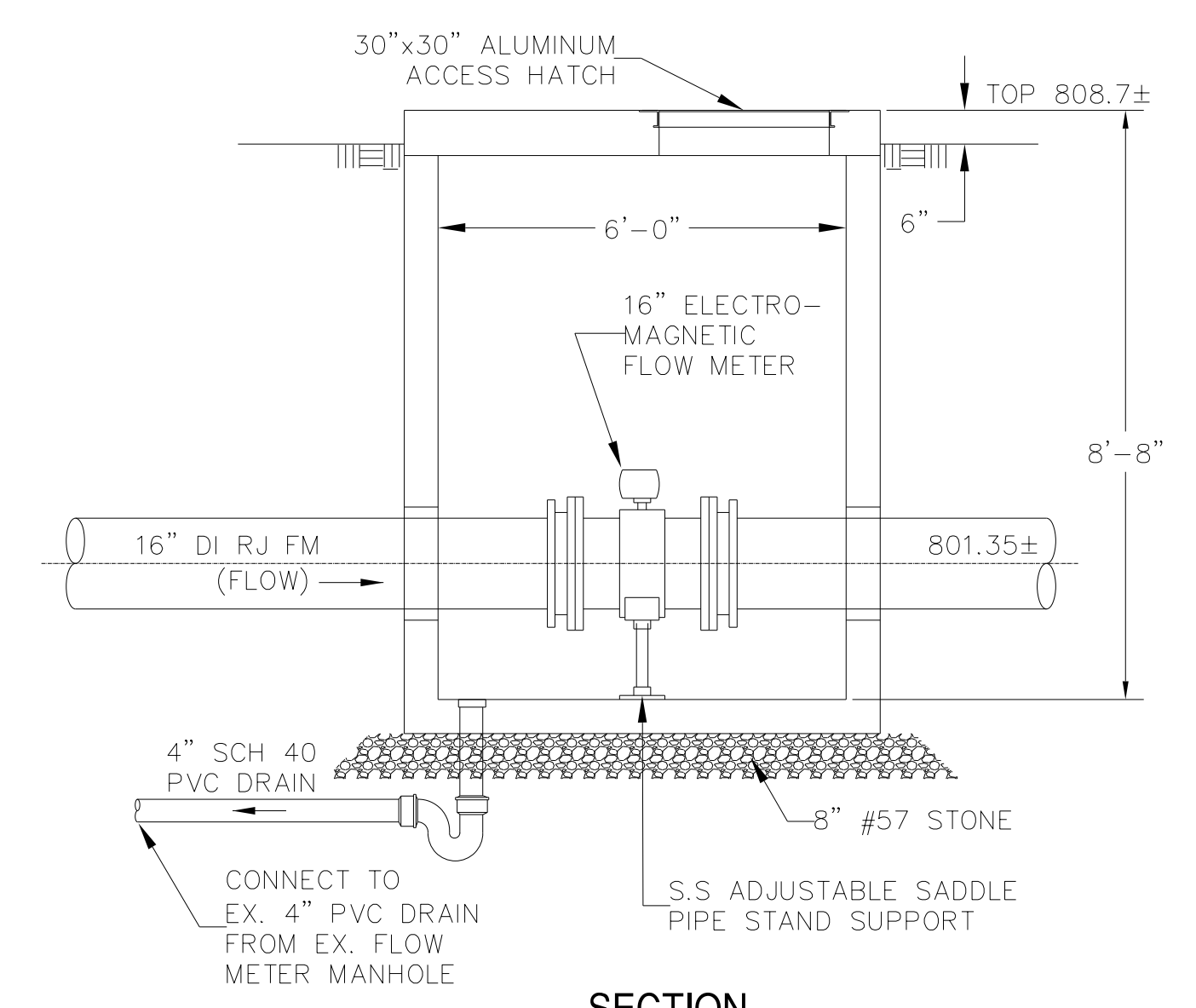
TOP PLAN
N.T.S.



INTERMEDIATE PLAN
N.T.S.



BYPASS PUMP CONNECTION
N.T.S.



SECTION
N.T.S.

16" FLOW METER IN VAULT
N.T.S.

REVISIONS

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PROJECT TYPICAL DETAILS

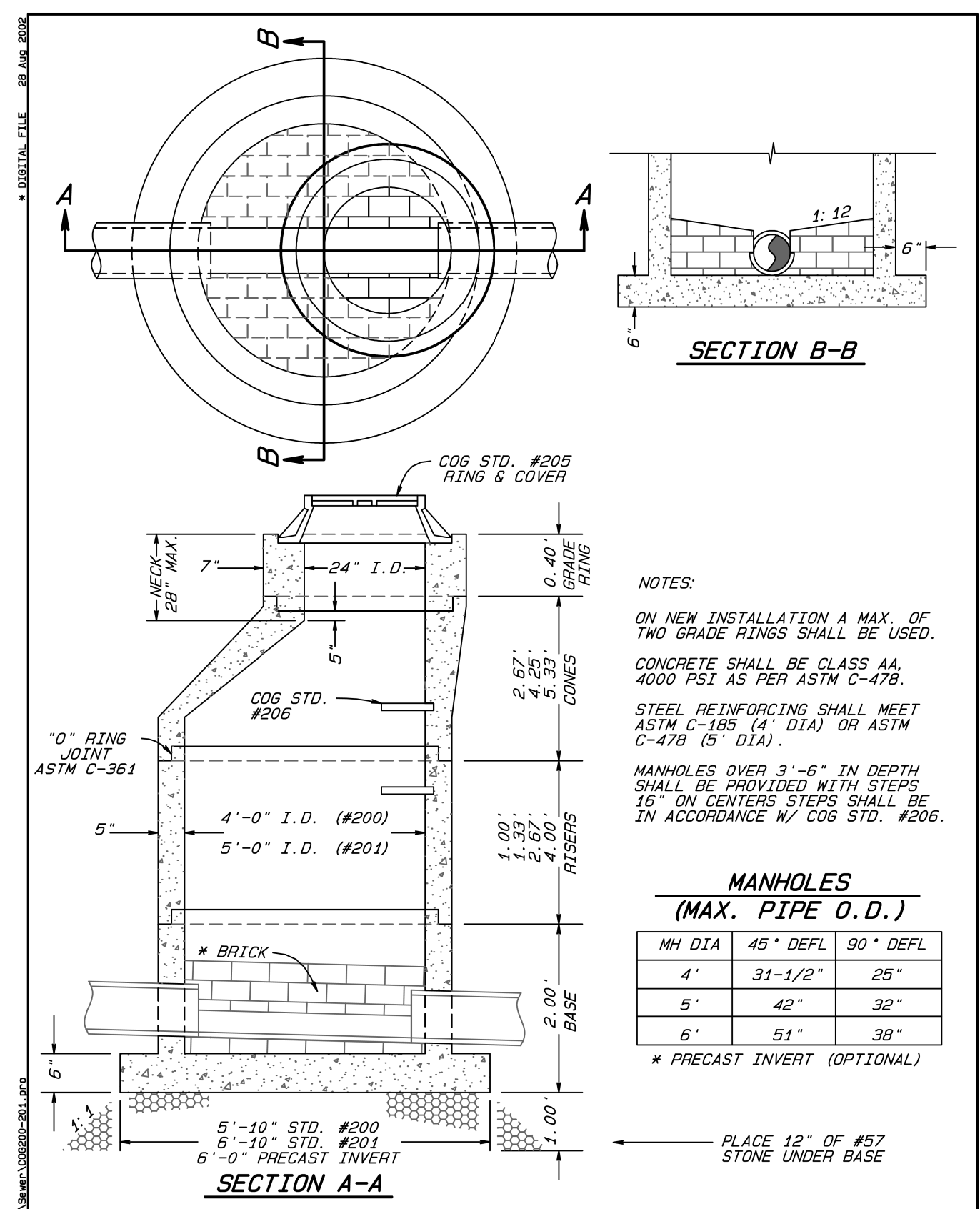
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

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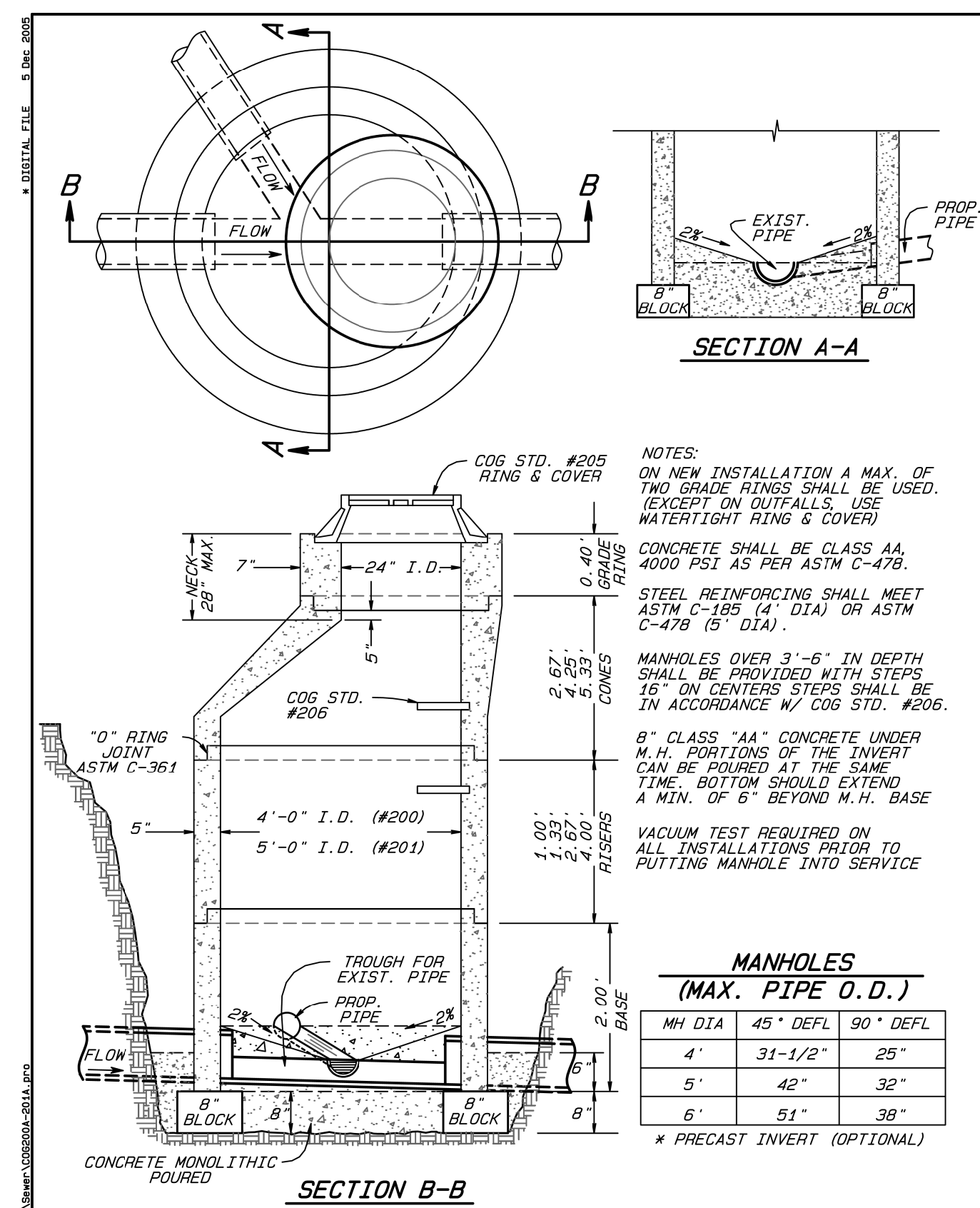
PRELIMINARY PLANS
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UTILITY AGREEMENT PLANS



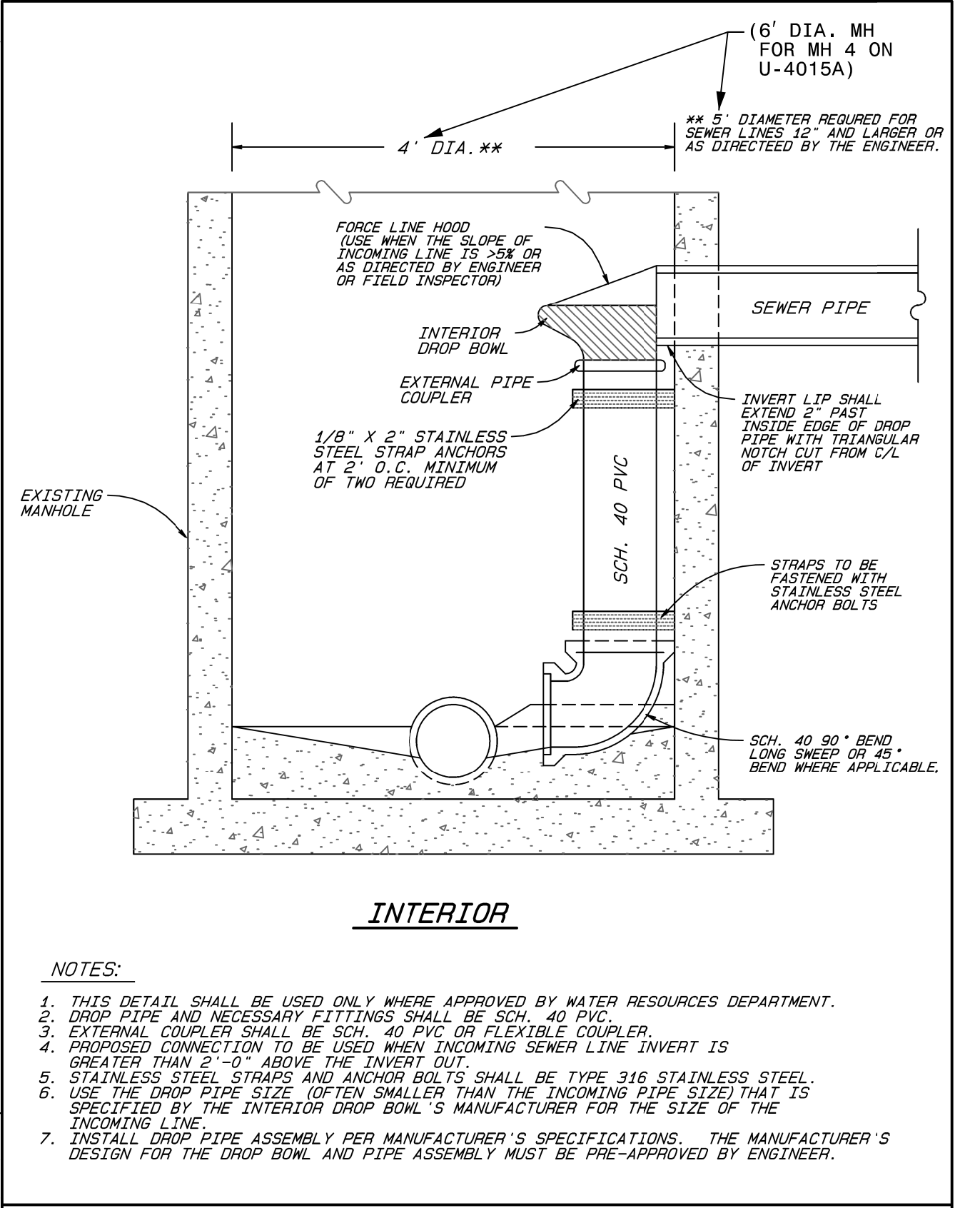
CITY OF GREENSBORO

STANDARD 4' I.D. & 5' I.D. ECCENTRIC PRECAST CONCRETE SANITARY MANHOLE WITH EXPANDED BASE	STD. NO. 200	REV. 05-88 03-98
	201	11-93 08-02



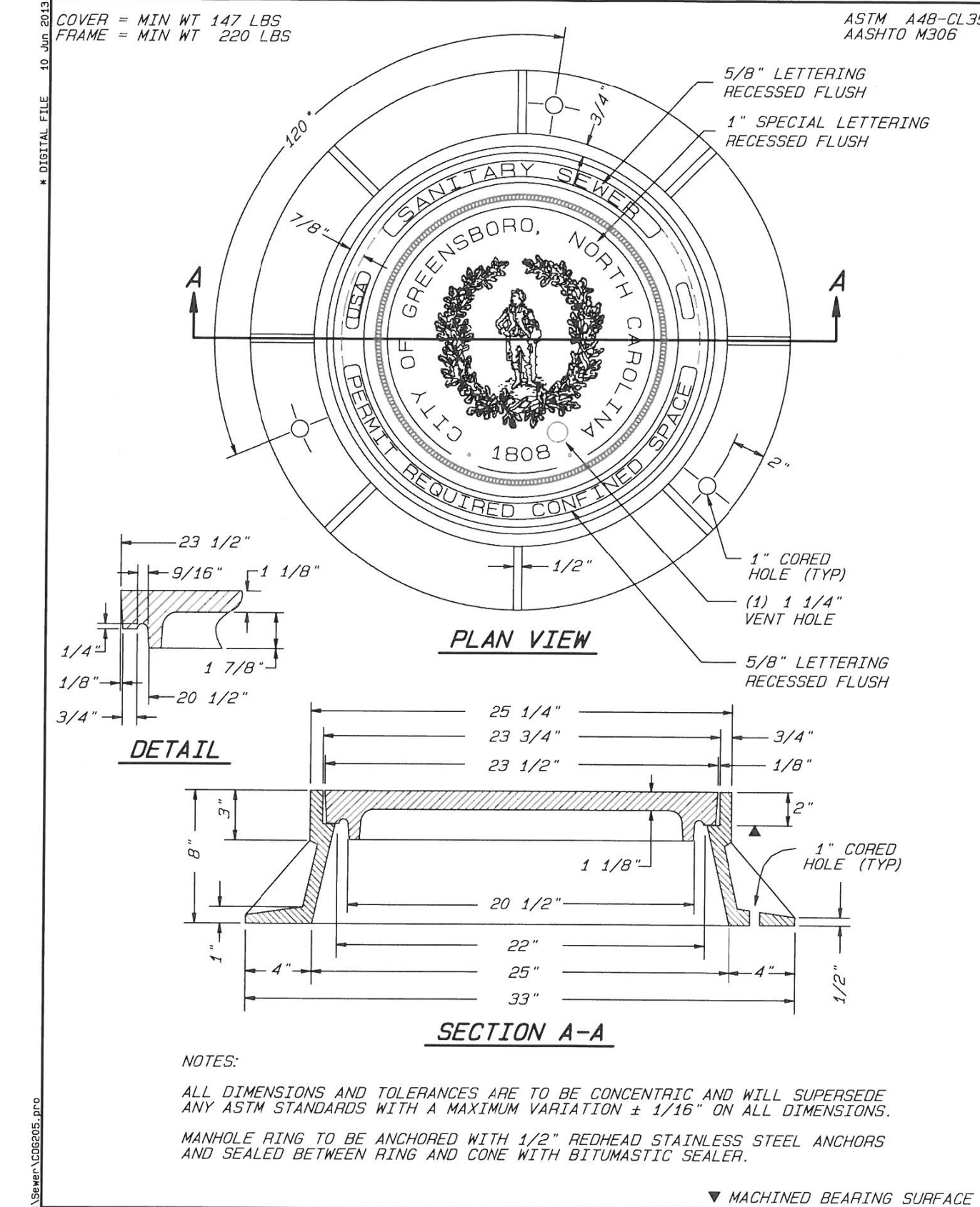
CITY OF GREENSBORO

STANDARD 4' I.D. & 5' I.D. ECCENTRIC PRECAST BOTTOMLESS MANHOLE OVER EXISTING SANITARY SEWER (DOGHOUSE MANHOLE)	STD. NO. 200A	REV. DEC-05
	201A	



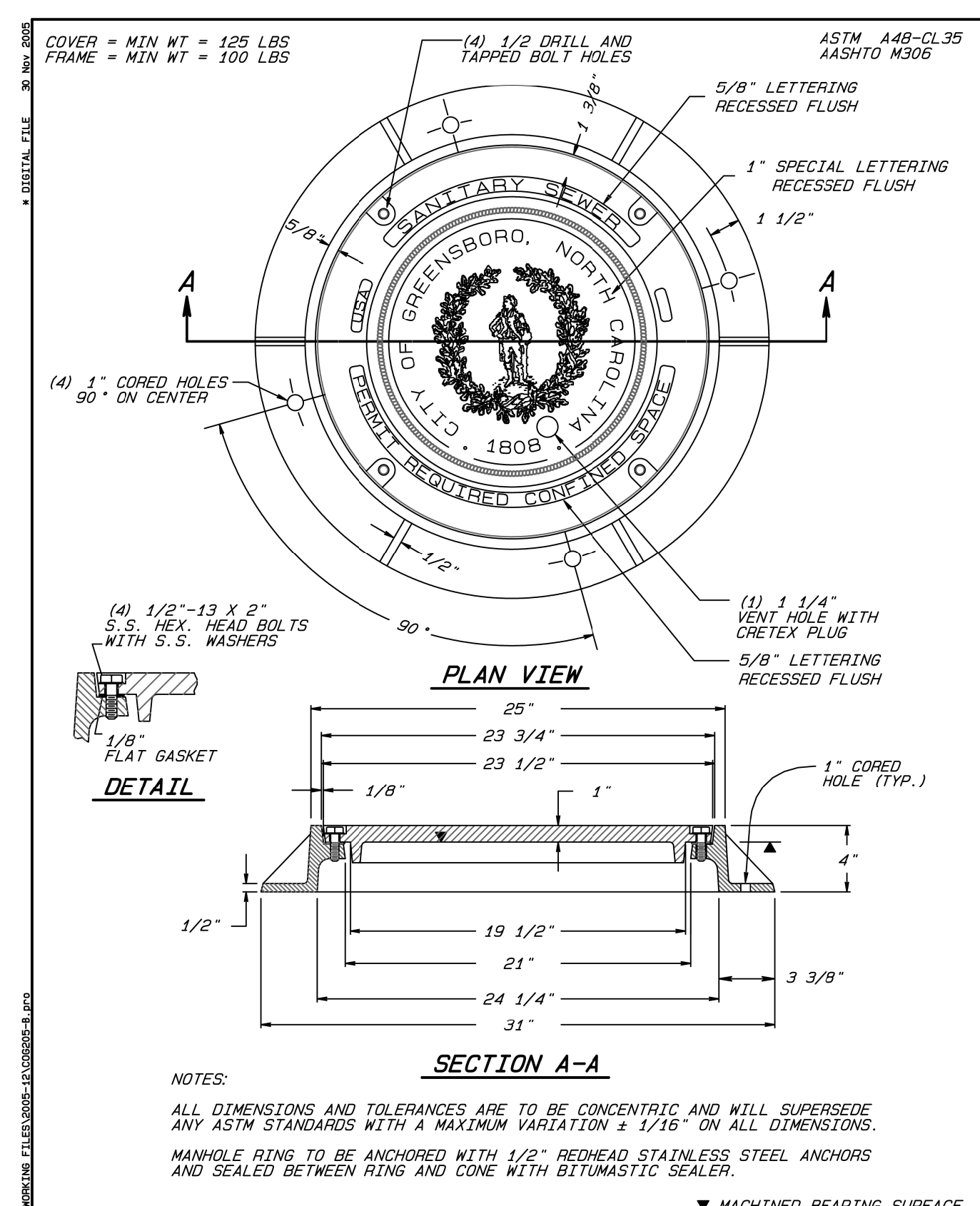
CITY OF GREENSBORO

DROP CONNECTION (INTERIOR) FOR EXISTING SANITARY SEWER MANHOLE	STD. NO. 203	REV. 06-03 03-14
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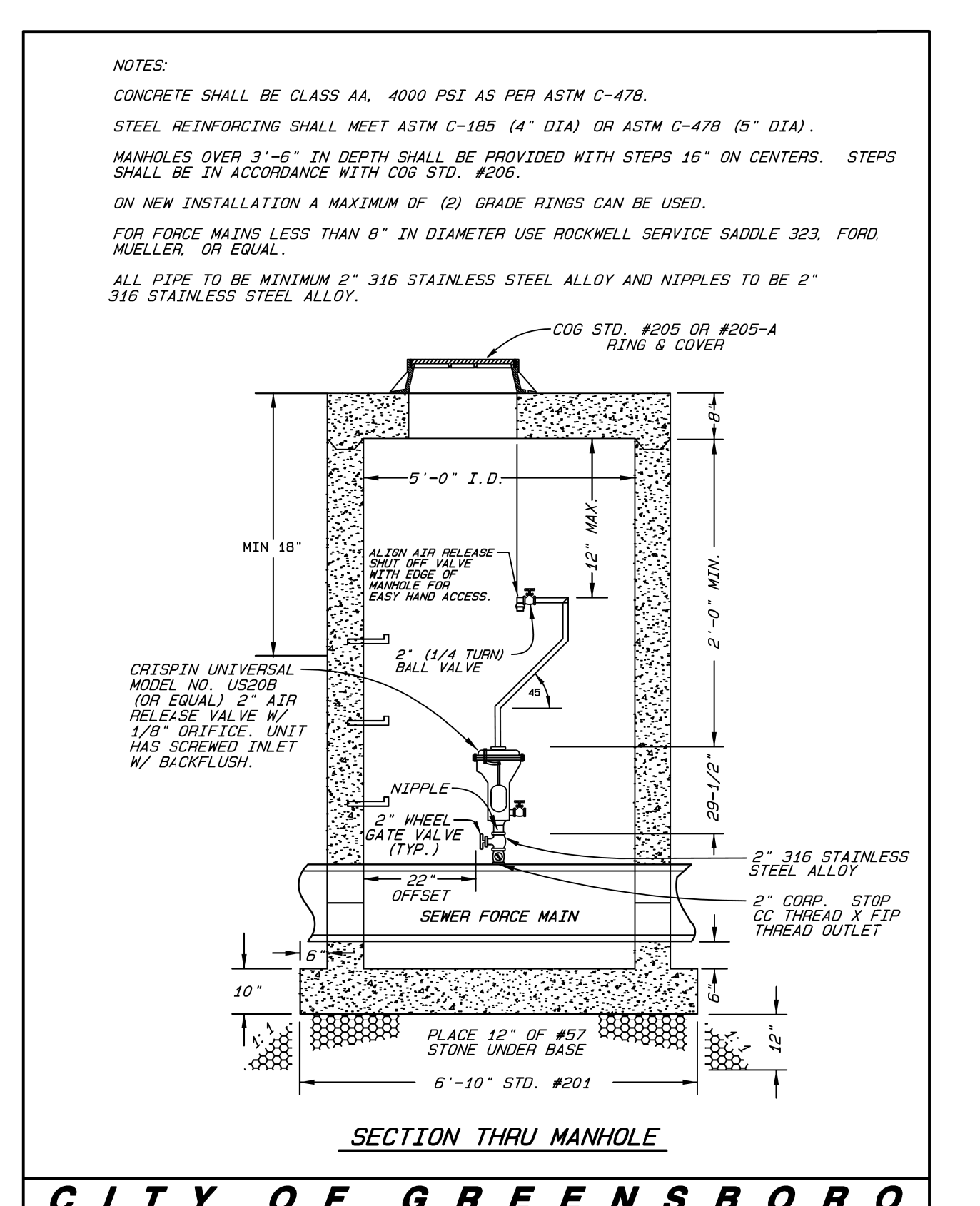
CITY OF GREENSBORO

STANDARD MANHOLE RING AND COVER	STD. NO. 205	REV. 12-05 06-13
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CITY OF GREENSBORO

STANDARD WATERTIGHT MANHOLE RING AND COVER	STD. NO. 205-B	REV. MAR-97 DEC-05 MAR-98 MAR-01
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CITY OF GREENSBORO

AIR RELIEF VALVE WITH ASSEMBLY AND MANHOLE FOR SANITARY SEWER LINES	STD. NO. 211	REV. 03-03 03-22 06-07 03-08
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NOTE: FOR SEWER ARV, INSTEAD OF TAPPING THE MAIN, CONTRACTOR SHALL INSTALL A MAIN-LINE TEE TURNED UPRIGHT ON THE FORCE MAIN, WITH A BLIND FLANGE BOLTED TO THE TOP SIDE OF THE TEE. THE BLIND FLANGE SHALL BE TAPPED TO ACCOMMODATE THE 2" CORPORATION STOP. COST FOR THE TEE AND TAPPED BLIND FLANGE SHALL BE INCIDENTAL TO THE COST OF THE 2" ARV.

FOR THE 2" ARV ON 20" FORCE MAIN, USE A 20"x12" TEE.

THE INTERIOR OF THE TEE AND THE BLIND FLANGE SHALL HAVE A CORROSION-RESISTANT CERAMIC EPOXY COATING.

REVISIONS

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 Files\UC03D\26-DEC-2013 14:01 Engineering\UC\Proj\U4015a.ut_dtl_UC03D.ph.dgn

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,355 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

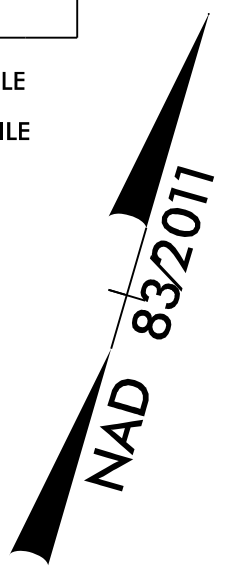
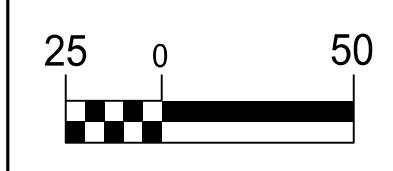
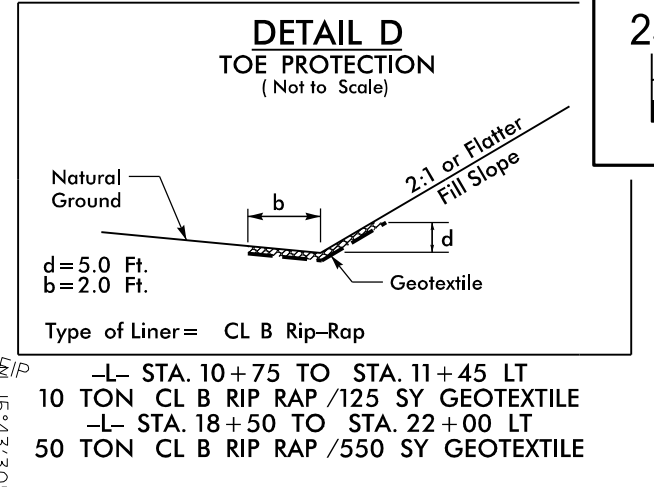
(CITY OF GREENSBORO: 25 POUNDS)
(CITY OF HIGH POINT: 1,330 POUNDS)

NOTE:
1. SHUT EX. 6" VALVE ON HYDRANT LEG, RELOCATE FIRE HYDRANT, AND INSTALL 6" D.I. PLUG ON OUTLET SIDE OF EX. 6" VALVE. THE EX. 6" VALVE WILL REMAIN SHUT PERMANENTLY, AND EX. VALVE BOX SHOULD BE REMOVED.

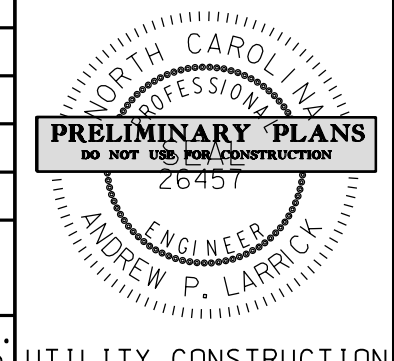
THE 12" WATER LINE AND APPURTENANCES ON THE NORTH SIDE OF GALLIMORE DAIRY ROAD ARE OWNED BY THE CITY OF GREENSBORO.

THE 8" SEWER LINE ON THE NORTH SIDE OF GALLIMORE DAIRY ROAD IS OWNED BY THE CITY OF GREENSBORO.

THE 12" WATER LINE AND APPURTENANCES ON THE SOUTH SIDE OF GALLIMORE DAIRY ROAD ARE OWNED BY THE CITY OF HIGH POINT.



PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-4
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY



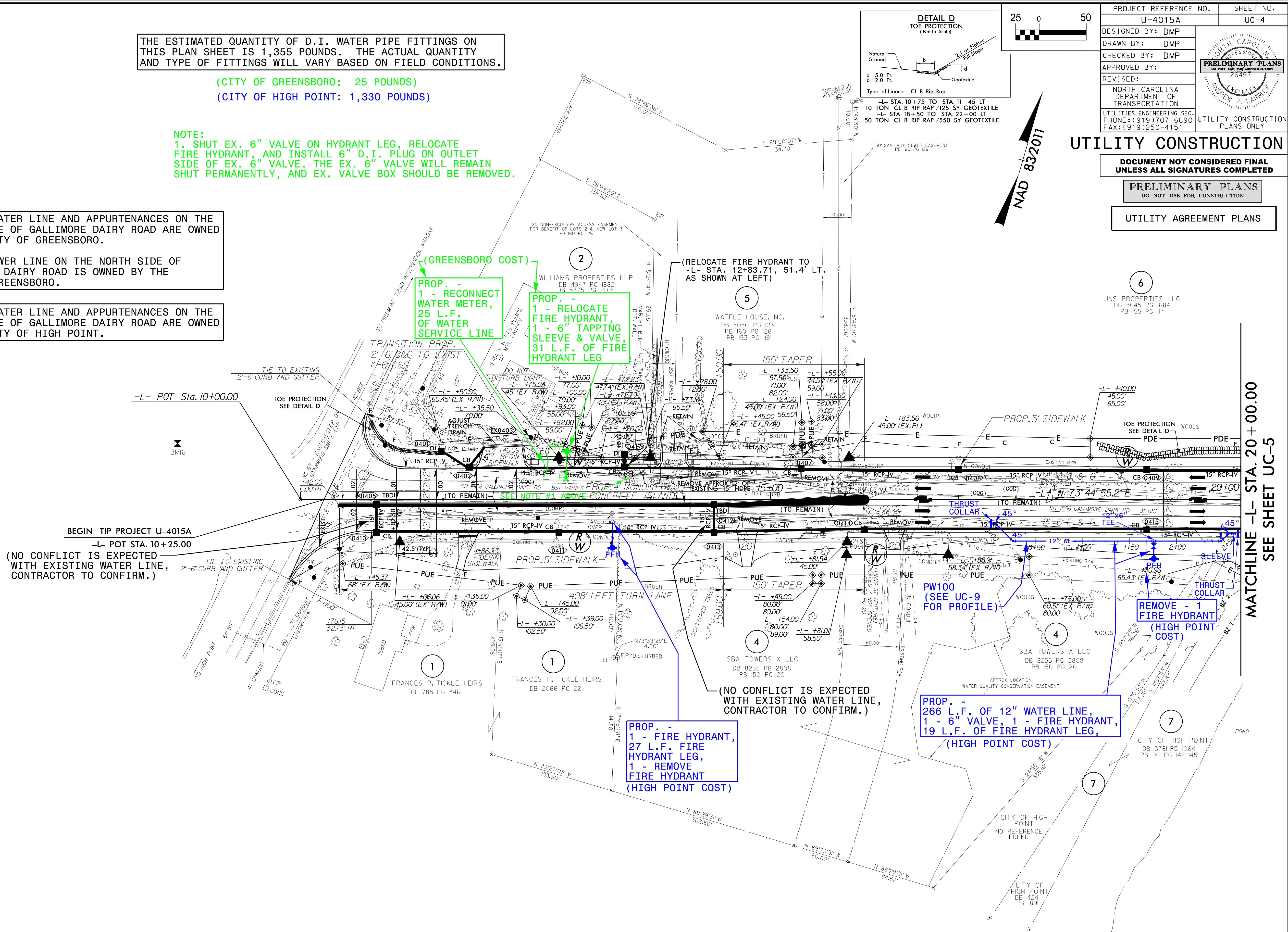
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

REVISIONS



(GREENSBORO COST)
PROP. -
1 - RECONNECT WATER METER,
25 L.F. OF WATER SERVICE LINE

PROP. -
1 - RELOCATE FIRE HYDRANT,
1 - 6" TAPPING SLEEVE & VALVE,
31 L.F. OF FIRE HYDRANT LEG

PW100 (SEE UC-9 FOR PROFILE)

REMOVE - 1 FIRE HYDRANT (HIGH POINT COST)

PROP. -
266 L.F. OF 12" WATER LINE,
1 - 6" VALVE, 1 - FIRE HYDRANT,
19 L.F. OF FIRE HYDRANT LEG,
(HIGH POINT COST)

PROP. -
1 - FIRE HYDRANT,
27 L.F. FIRE HYDRANT LEG,
1 - REMOVE FIRE HYDRANT (HIGH POINT COST)

BEGIN TIP PROJECT U-4015A
-L- POT STA. 10+25.00
(NO CONFLICT IS EXPECTED WITH EXISTING WATER LINE, CONTRACTOR TO CONFIRM.)

(NO CONFLICT IS EXPECTED WITH EXISTING WATER LINE, CONTRACTOR TO CONFIRM.)

MATCHLINE -L- STA. 20+00.00
SEE SHEET UC-5

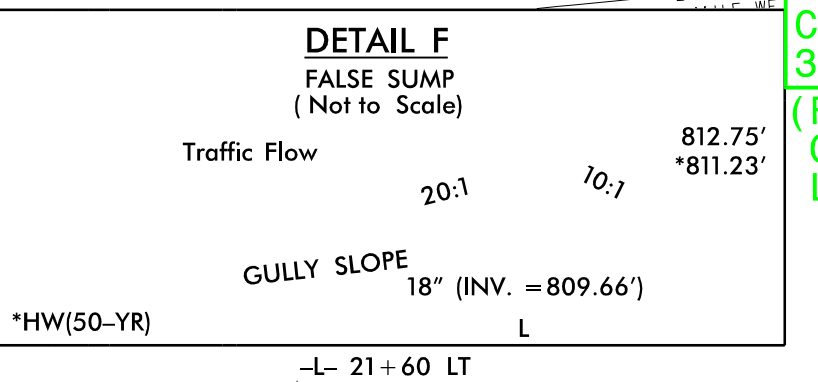
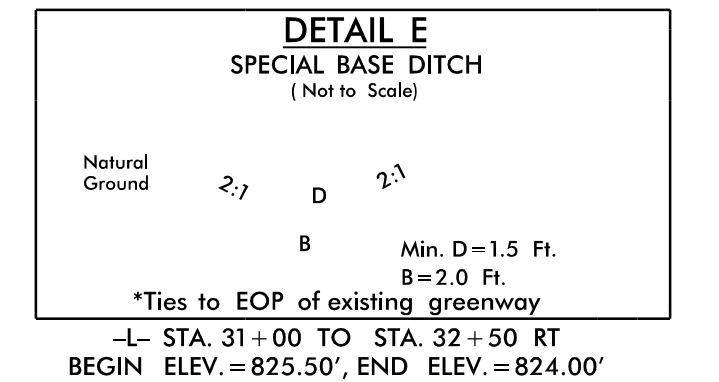
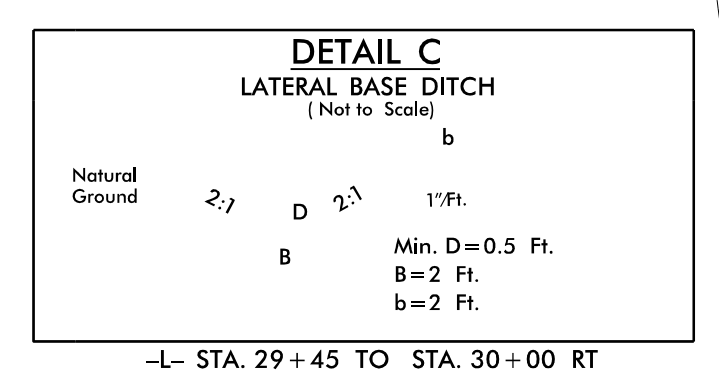
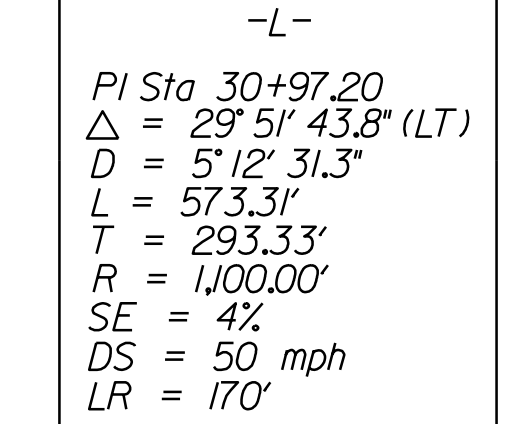
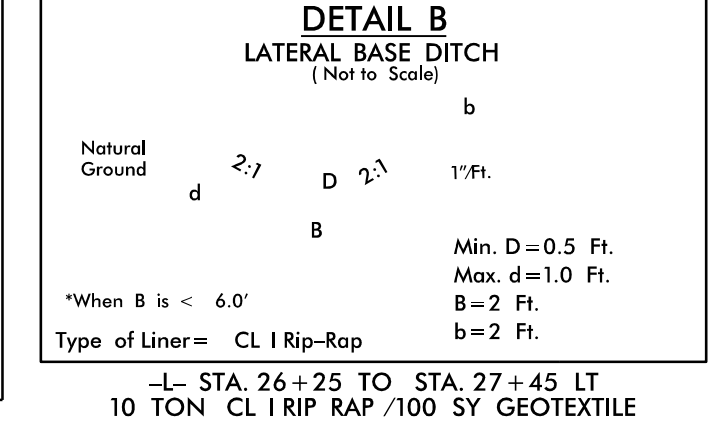
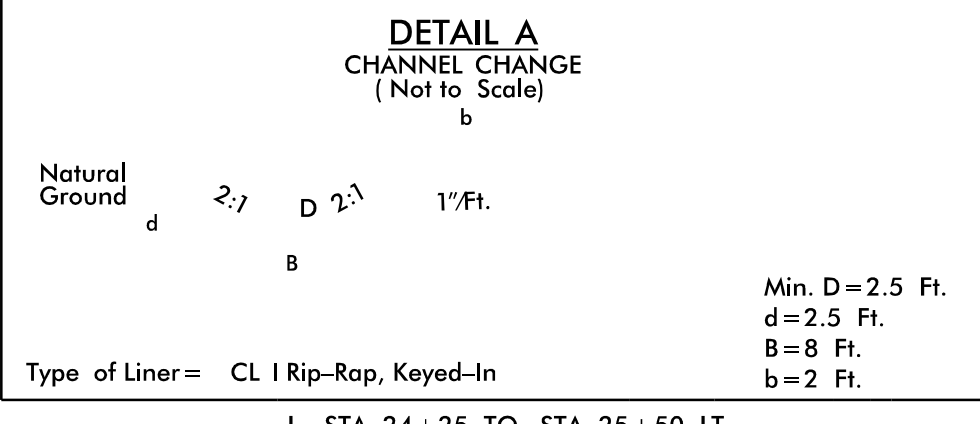
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THE NORTHERN-MOST WATER LINES AND APPURTENANCES ALONG GALLIMORE DAIRY ROAD ARE OWNED BY THE CITY OF GREENSBORO.

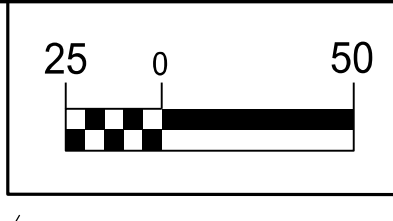
THE SEWER LINES AND LIFT STATION ON THE NORTH SIDE OF GALLIMORE DAIRY ROAD ARE OWNED BY THE CITY OF GREENSBORO.

THE SOUTHERN-MOST WATER LINES AND APPURTENANCES ALONG GALLIMORE DAIRY ROAD ARE OWNED BY THE CITY OF HIGH POINT.

THE SEWER LINES ON THE SOUTH SIDE OF GALLIMORE DAIRY ROAD ARE OWNED BY THE CITY OF HIGH POINT.



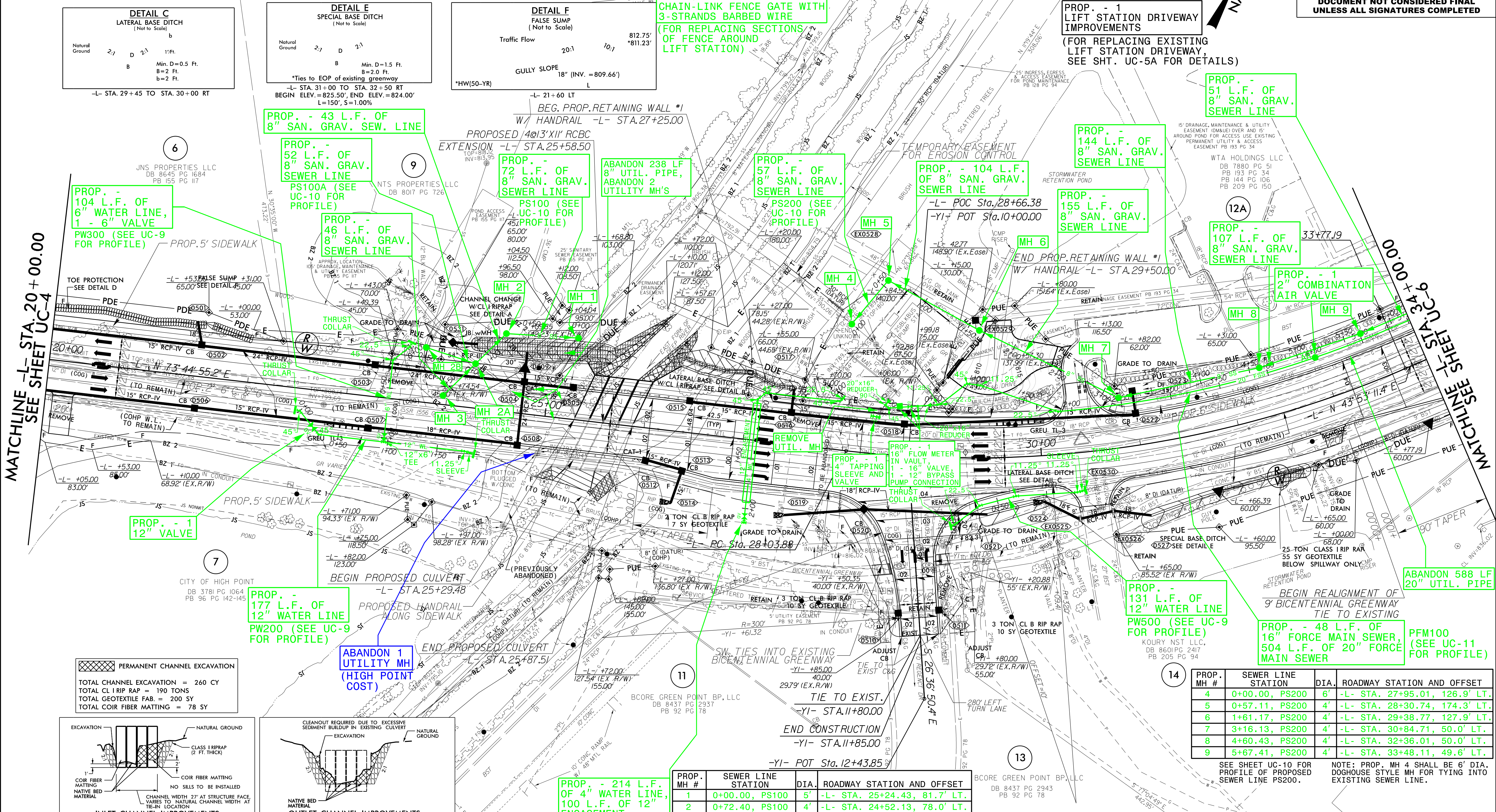
THE ESTIMATED QUANTITY OF D.I. SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 5,450 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-5
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

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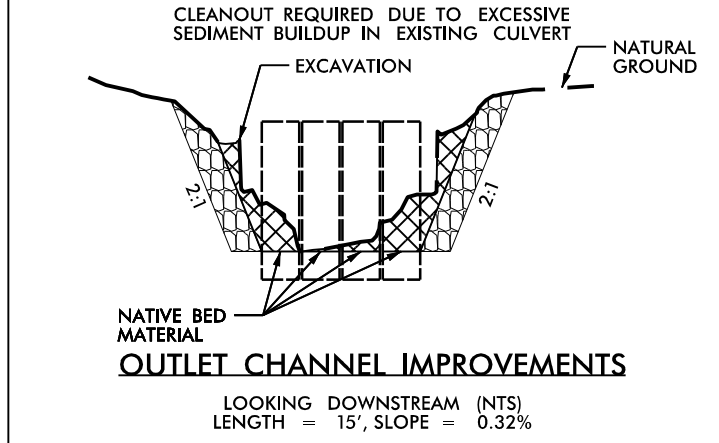
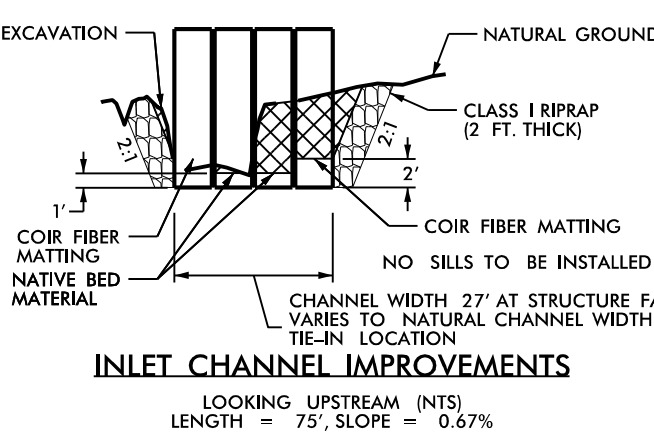


MATCHLINE -L- STA. 20+00.00 SEE SHEET UC-4

MATCHLINE -R- STA. 34+96.00 SEE SHEET UC-6

PERMANENT CHANNEL EXCAVATION

TOTAL CHANNEL EXCAVATION = 260 CY
 TOTAL CL I RIP RAP = 190 TONS
 TOTAL GEOTEXTILE FAB. = 200 SY
 TOTAL COIR FIBER MATTING = 78 SY



NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAMBED OR FLOODPLAIN AT THE PROJECT SITE DURING CULVERT CONSTRUCTION. ONLY MATERIAL THAT IS EXCAVATED FROM THE STREAMBED OR FLOODPLAIN MAY BE USED TO LINE THE LOW FLOW CULVERT. LINE THE HIGH FLOW CULVERT BARRELS. NATIVE MATERIAL SHOULD BE PLACED ON TOP TO FILL YOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

PROP. - 214 L.F. OF 4\"/>

PROP. MH #	SEWER LINE STATION	DIA.	ROADWAY STATION AND OFFSET
1	0+00.00, PS100	5"	-L- STA. 25+24.43, 81.7' LT.
2	0+72.40, PS100	4"	-L- STA. 24+52.13, 78.0' LT.
2A	+1+15.56, PS100=0+00.00, PS100A	4"	-L- STA. 24+24.92, 44.5' LT.
2B	0+52.13, PS100A	4"	-L- STA. 23+73.85, 55.0' LT.
3	+1+61.26, PS100	5"	-L- STA. 23+96.10, 9.0' LT.

SEE SHEET UC-10 FOR PROFILES OF PROPOSED SEWER LINES PS100 & PS100A.

NOTE: PROP. MH'S 1, 2B, & 3 SHALL BE DOGHOUSE STYLE MH'S FOR TYING INTO EXISTING SEWER LINE.

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,295 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROP. MH #	SEWER LINE STATION	DIA.	ROADWAY STATION AND OFFSET
4	0+00.00, PS200	6"	-L- STA. 27+95.01, 126.9' LT.
5	0+57.11, PS200	4"	-L- STA. 28+30.74, 174.3' LT.
6	+1+61.17, PS200	4"	-L- STA. 29+38.77, 127.9' LT.
7	+3+16.13, PS200	4"	-L- STA. 30+84.71, 50.0' LT.
8	+4+60.43, PS200	4"	-L- STA. 32+36.01, 50.0' LT.
9	+5+67.41, PS200	4"	-L- STA. 33+48.11, 49.6' LT.

SEE SHEET UC-10 FOR PROFILE OF PROPOSED SEWER LINE PS200.

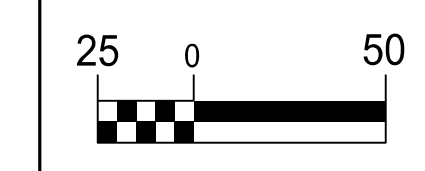
NOTE: PROP. MH 4 SHALL BE 6' DIA. DOGHOUSE STYLE MH FOR TYING INTO EXISTING SEWER LINE.

UTILITY CONSTRUCTION PLANS PREPARED BY:

DAVIS & MARTIN & POWELL
 ENGINEERS & SURVEYORS

6415 OLD PLANK RD., HIGH POINT, NC 27265
 PHONE: (336) 886-4821 FAX: (336) 886-4458
 WWW.DMP-INC.COM LICENSE: F-2445

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PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-5A
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
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- FOR REPLACING EXISTING LIFT STATION DRIVEWAY, THE LUMP SUM PRICE FOR THE PROPOSED LIFT STATION DRIVEWAY IMPROVEMENTS SHALL INCLUDE:
1. GRADING
 2. CONCRETE APRON (24± S.Y.)
 3. 8" ABC STONE (215± TONS)
 4. 3" I-19.0B ASPHALT (88± TONS)
 5. 2" S9.5C ASPHALT (60± TONS)
 6. 15" TRAFFIC-RATED TRENCH DRAIN (26 L.F.)

UTILITY CONSTRUCTION

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PRELIMINARY PLANS
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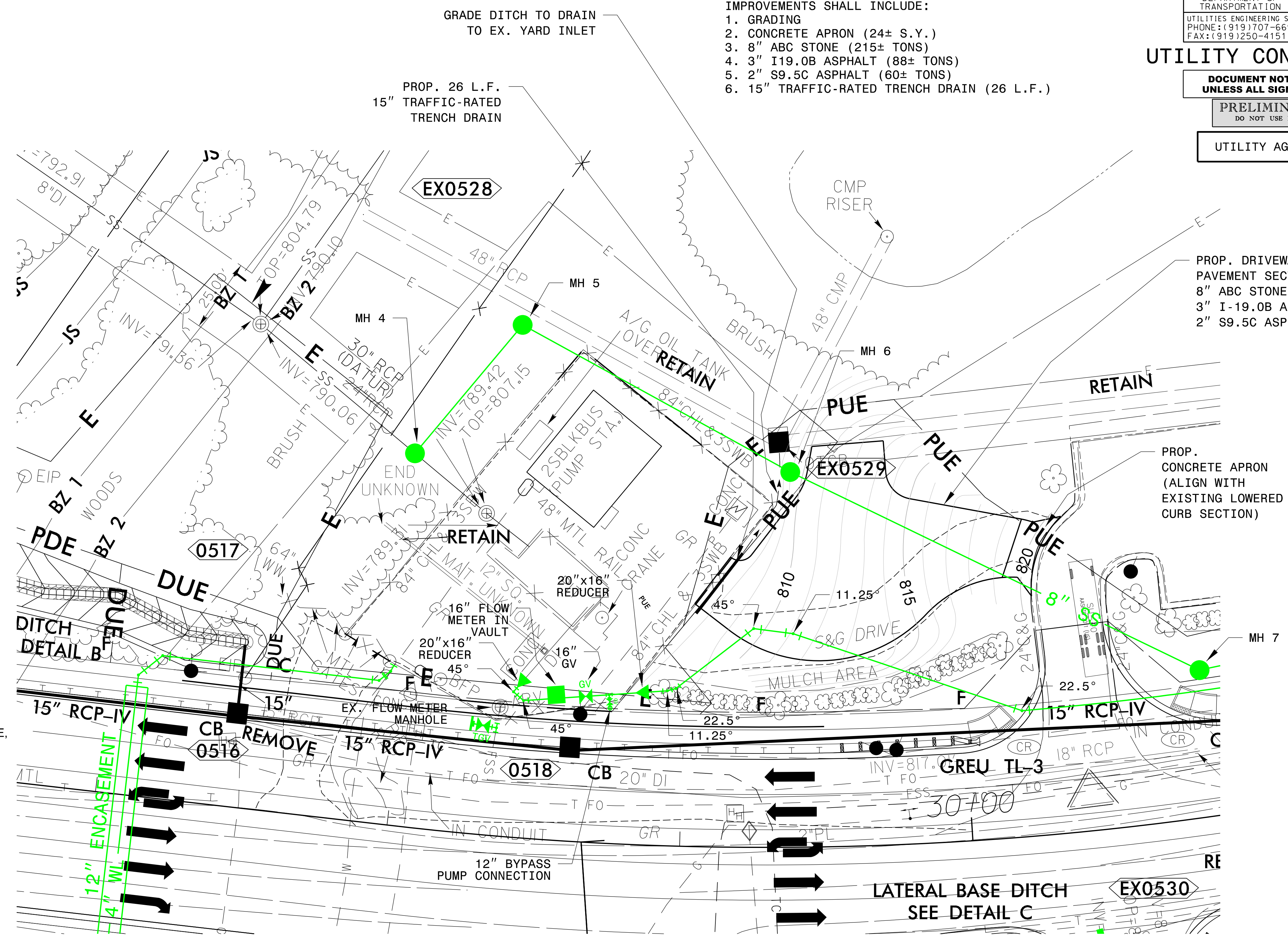
UTILITY AGREEMENT PLANS

NOTE:

THE EXISTING 20" SEWER FORCE MAIN CARRYING FLOW FROM GALLIMORE DAIRY ROAD LIFT STATION (GDRLS) CAN ONLY BE SHUT DOWN FOR APPROXIMATELY 2-1/2 HOURS. THIS IS BASED ON THE CITY OF GREENSBORO'S ESTIMATES OF AVERAGE DAILY FLOW RATES OF WASTEWATER INFLUENT TO THE LIFT STATION, AND AVAILABLE STORAGE VOLUME IN THE LIFT STATION WET WELL AND UPSTREAM GRAVITY SEWER SYSTEM.

RECOMMENDATIONS FOR TYING THE PROPOSED 20" SEWER FORCE MAIN INTO THE EXISTING 20" SEWER FORCE MAIN INCLUDE THE FOLLOWING:

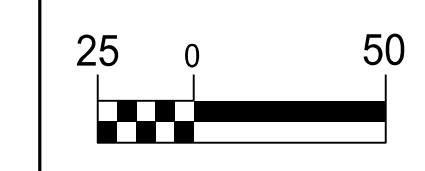
- INSTALL AND PRESSURE TEST ALL OF THE PROPOSED 20" FORCE MAIN, TO WITHIN A FEW FEET OF THE PROPOSED TIE-IN LOCATIONS.
- INSTALL THE PROPOSED 4" TAPPING SLEEVE AND VALVE NEXT TO THE EXISTING FLOW METER MANHOLE AT THE LIFT STATION. CONTRACTOR SHALL CONFIRM THE SIZE OF THE EXISTING FORCE MAIN AT THIS LOCATION (IT COULD BE 20" OR 12" DIAMETER). THIS 4" TAP WILL BE USED TO DRAIN THE EXISTING 20" FORCE MAIN AFTER IT HAS BEEN TAKEN OUT OF SERVICE, AND CAN ALSO BE USED TO AID WITH PUMPING FLOWABLE FILL INTO THE EXISTING 20" FORCE MAIN WHEN IT IS TIME TO ABANDON THE 20" FM.
- HAVE ADEQUATE TEMPORARY BYPASS PUMPING EQUIPMENT IN PLACE AT THE LIFT STATION SITE. BYPASS PUMP SUCTION LINE(S) CAN BE PLACED IN THE LIFT STATION WET WELL OR AN UPSTREAM GRAVITY SEWER MANHOLE, AND THE BYPASS PUMP DISCHARGE PIPING WILL BE CONNECTED TO THE NEW 12" BYPASS PUMP CONNECTION INSTALLED AT THE LIFT STATION SITE.
- JUST BEYOND THE END OF THE PROPOSED 20" FORCE MAIN RELOCATION (STA 9+77), INSTALL THE 20" LINE STOP, AND HAVE IT READY TO CLOSE THE LINE STOP VALVE AT THE APPROPRIATE TIME.
- CONTRACTOR SHALL HAVE ALL PIPE AND FITTINGS READY TO INSTALL AT THE END OF THE 20" FORCE MAIN RELOCATION (PFM100 STA. 9+77).
- COORDINATE WITH THE CITY OF GREENSBORO TO SHUT DOWN THE GDRLS, AND MAKE THE TIE-IN TO THE EXISTING 20" FORCE MAIN.
- AFTER MAKING THIS TIE-IN, CLOSE THE NEW 16" MAIN-LINE GATE VALVE AT THE LIFT STATION SITE, AND BEGIN BYPASS PUMPING OPERATION.
- INSTALL TEMPORARY 4" PIPING OR HOSE FROM THE 4" TAPPING VALVE BESIDE THE EXISTING FLOW METER MANHOLE, WITH THE TEMPORARY 4" PIPE OR HOSE DISCHARGING INTO THE LIFT STATION WET WELL OR UPSTREAM GRAVITY SEWER MH. OPEN THE TAPPING VALVE TO DRAIN THE EXISTING 20" FORCE MAIN.
- TYE-IN THE NEW FORCE MAIN PIPE TO THE EXISTING FORCE MAIN PIPE AT THE LIFT STATION SITE. SHUT DOWN THE TEMPORARY BYPASS PUMP OPERATION, AND ACTIVATE THE GDRLS.
- THE EXISTING 20" FORCE MAIN CAN THEN BE ABANDONED BY PUMPING FLOWABLE FILL INTO IT.



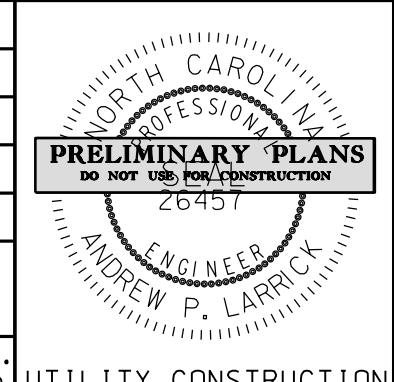
INSET AT EX. GALLIMORE DAIRY ROAD LIFT STATION

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-6
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY



UTILITY CONSTRUCTION

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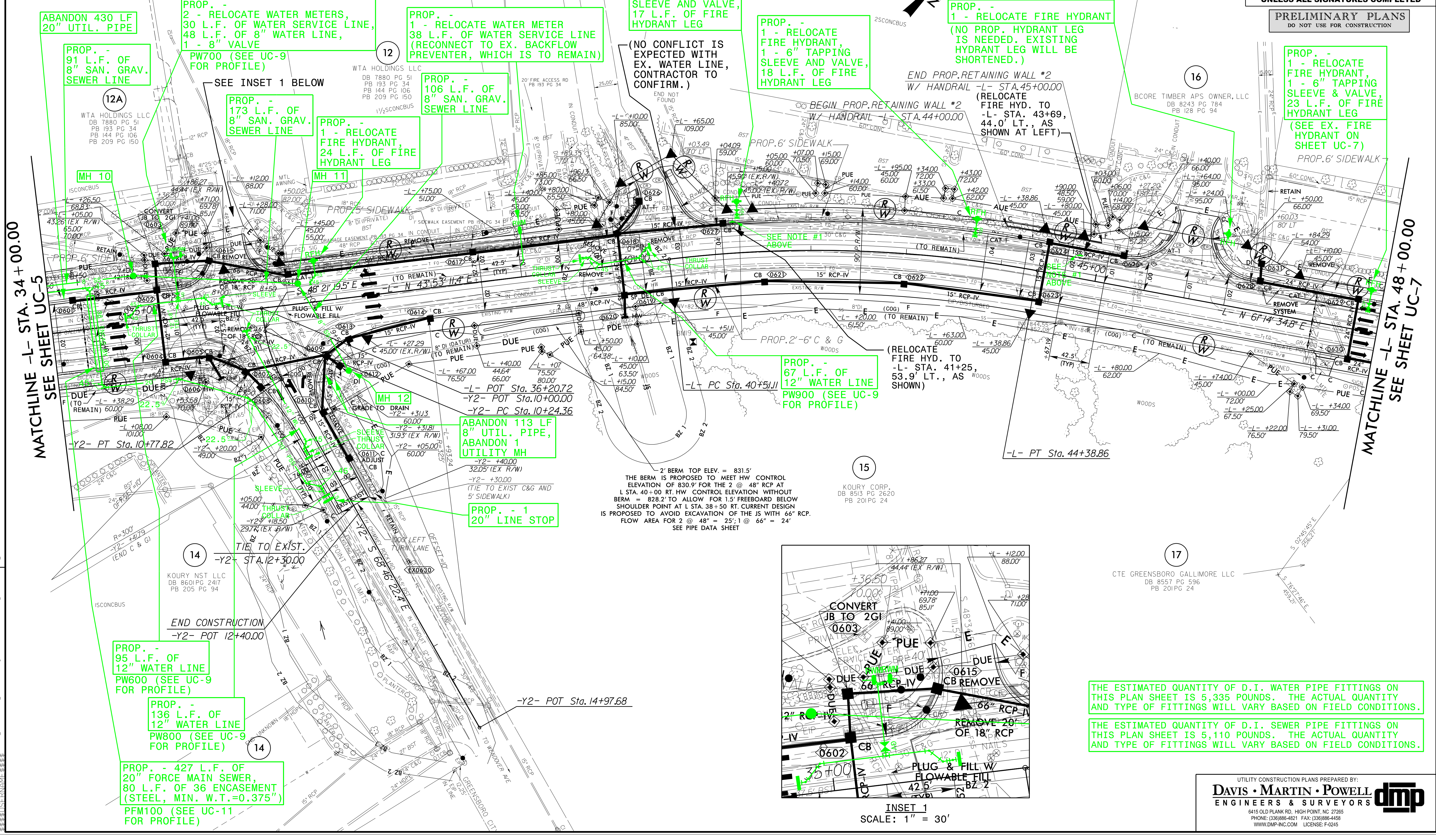
SEE SHEET UC-10 FOR PROFILE OF PROPOSED SEWER LINE PS200.

NOTE: PROP. MH 12 SHALL BE 4' DIA. DOGHOUSE STYLE MH FOR TYING INTO EXISTING SEWER LINE.

PROP. MH #	SEWER LINE STATION	DIA.	ROADWAY STATION AND OFFSET
10	7+09.22, PS200	4'	-L- STA. 34+91.23, 50.0' LT.
11	8+82.01, PS200	4'	-L- STA. 36+61.61, 21.2' LT.
12	9+87.69, PS200	4'	-L- STA. 37+03.65, 75.8' RT.

-L-	-Y2-
PI Sta. 42+46.48	PI Sta. 10+51.38
$\Delta = 17' 21" 23.4" (RT)$	$\Delta = 20' 25" 02.9" (LT)$
$D = 4' 28" 34.4"$	$D = 38" 11" 49.9"$
$L = 387.75'$	$L = 53.45'$
$T = 195.37'$	$T = 27.01'$
$R = 1,280.00'$	$R = 150.00'$
$SE = 4\%$	$SE = 4\%$
$DS = 55 \text{ mph}$	$DS = 40 \text{ MPH}$
$LR = 170'$	$LR = 120'$

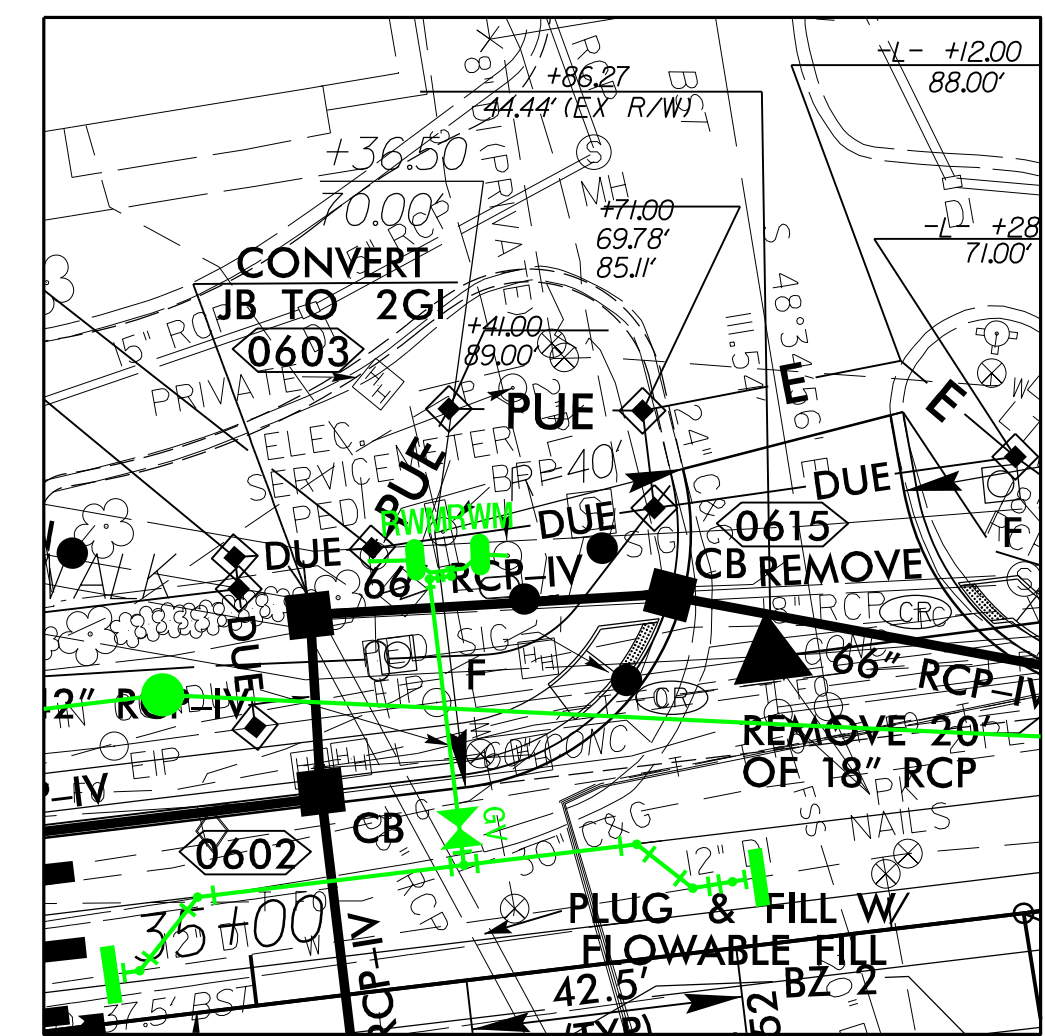
NOTE:
1. SHUT EX. 6" VALVE ON HYDRANT LEG, RELOCATE FIRE HYDRANT, AND INSTALL 6" D.I. PLUG ON OUTLET SIDE OF EXISTING 6" VALVE. THE EX. 6" VALVE WILL REMAIN SHUT PERMANENTLY, AND EX. VALVE BOX SHOULD BE REMOVED.



MATCHLINE -L- STA. 34 + 00.00
SEE SHEET UC-5

MATCHLINE -L- STA. 48 + 00.00
SEE SHEET UC-7

2' BERM TOP ELEV. = 831.5'
THE BERM IS PROPOSED TO MEET HW CONTROL ELEVATION OF 830.9' FOR THE 2 @ 48" RCP AT L STA. 40+00 RT. HW CONTROL ELEVATION WITHOUT BERM = 828.2' TO ALLOW FOR 1.5' FREEBOARD BELOW SHOULDER POINT AT L STA. 38+50 RT. CURRENT DESIGN IS PROPOSED TO AVOID EXCAVATION OF THE JS WITH 66" RCP. FLOW AREA FOR 2 @ 48" = 25.1' @ 66" = 24'. SEE PIPE DATA SHEET



INSET 1
SCALE: 1" = 30'

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 5,335 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF D.I. SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 5,110 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

REVISIONS

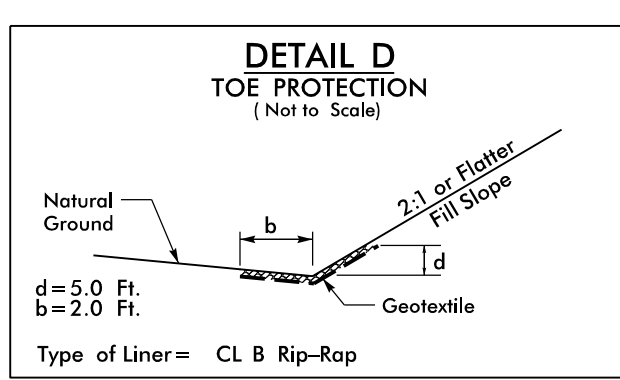
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UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

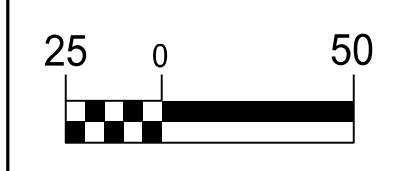
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

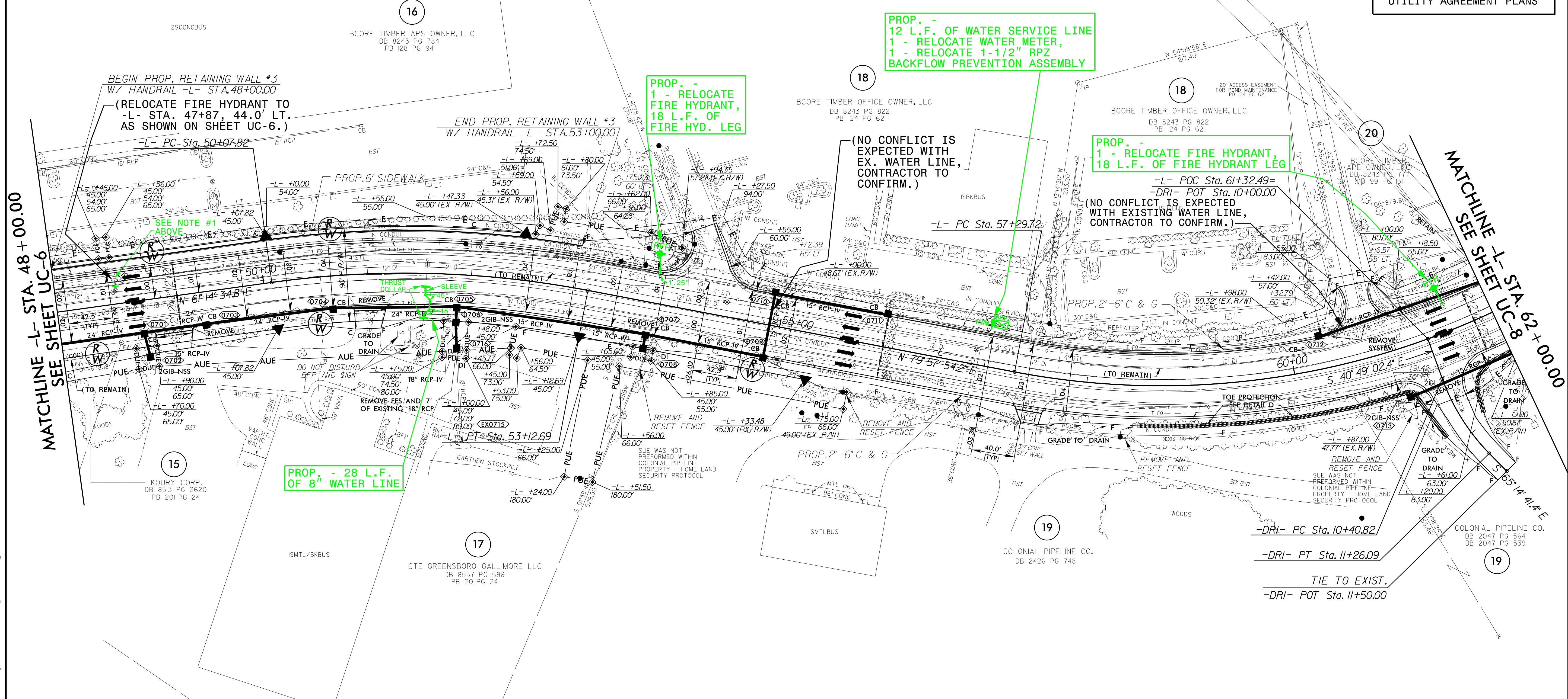


Type of Liner = CL B Rip-Rap
 -DRI- STA. 10+45 TO STA. 10+90 LT
 7.5 TON CL B RIP RAP / 75 SY GEOTEXTILE
 -DRI- STA. 10+45 TO STA. 10+90 RT
 7.5 TON CL B RIP RAP / 75 SY GEOTEXTILE
 -L- STA. 58+50 TO STA. 61+05 RT
 35 TON CL B RIP RAP / 400 SY GEOTEXTILE
 -L- STA. 61+65 TO STA. 65+80 RT
 60 TON CL B RIP RAP / 600 SY GEOTEXTILE

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 625 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



NOTE:
 1. SHUT EX. 6" VALVE ON HYDRANT LEG, RELOCATE FIRE HYDRANT, AND INSTALL 6" D.I. PLUG ON OUTLET SIDE OF EX. 6" VALVE. THE EX. 6" VALVE WILL REMAIN SHUT PERMANENTLY, AND EX. VALVE BOX SHOULD BE REMOVED.



MATCHLINE -L- STA. 48+00.00
SEE SHEET UC-6

MATCHLINE -L- STA. 62+00.00
SEE SHEET UC-8

BEGIN PROP. RETAINING WALL #3
W/ HANDRAIL -L- STA. 48+00.00
(RELOCATE FIRE HYDRANT TO
-L- STA. 47+87, 44.0' LT.
AS SHOWN ON SHEET UC-6.)
-L- PC Sta. 50+07.82

END PROP. RETAINING WALL #3
W/ HANDRAIL -L- STA. 53+00.00
-L- +72.50
-L- +69.00
-L- +80.00
-L- +73.50
-L- +59.00
-L- +54.50
-L- +47.33
-L- +45.31 (EX. R/W)-L- +55.00
-L- +45.00 (EX. R/W)-L- +47.33
-L- +45.31 (EX. R/W)-L- +55.00

PROP. -
1 - RELOCATE
FIRE HYDRANT,
18 L.F. OF
FIRE HYD. LEG

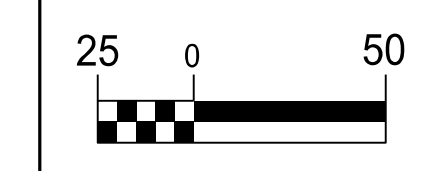
PROP. -
12 L.F. OF WATER SERVICE LINE
1 - RELOCATE WATER METER,
1 - RELOCATE 1-1/2" RPZ
BACKFLOW PREVENTION ASSEMBLY

PROP. -
1 - RELOCATE FIRE HYDRANT,
18 L.F. OF FIRE HYDRANT LEG
-L- POC Sta. 61+32.49=
-DRI- POT Sta. 10+00.00
(NO CONFLICT IS EXPECTED
WITH EXISTING WATER LINE,
CONTRACTOR TO CONFIRM.)

PROP. - 28 L.F.
OF 8" WATER LINE

-L-	-L-	-DRI-
PI Sta 51+61.63	PI Sta 61+23.12	PI Sta 10+84.11
Δ = 18' 43" 19.3" (RT)	Δ = 55' 21" 27.3" (LT)	Δ = 24' 25" 39.1" (LT)
D = 6' 08" 27.7"	D = 7' 38" 22.0"	D = 28' 38" 52.4"
L = 304.87'	L = 724.63'	L = 85.27'
T = 153.81'	T = 393.40'	T = 43.29'
R = 933.00'	R = 750.00'	R = 200.00'
SE = 4%	SE = 4%	SE = 2% (Stop)
DS = 50 mph	DS = 45 mph	DS = 15 mph
LR = 170'	LR = 160'	LR = 60'

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 28 DEC 2013 14:09
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PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-8
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WATER OR SEWER CONFLICTS ARE ANTICIPATED ON THIS SHEET.

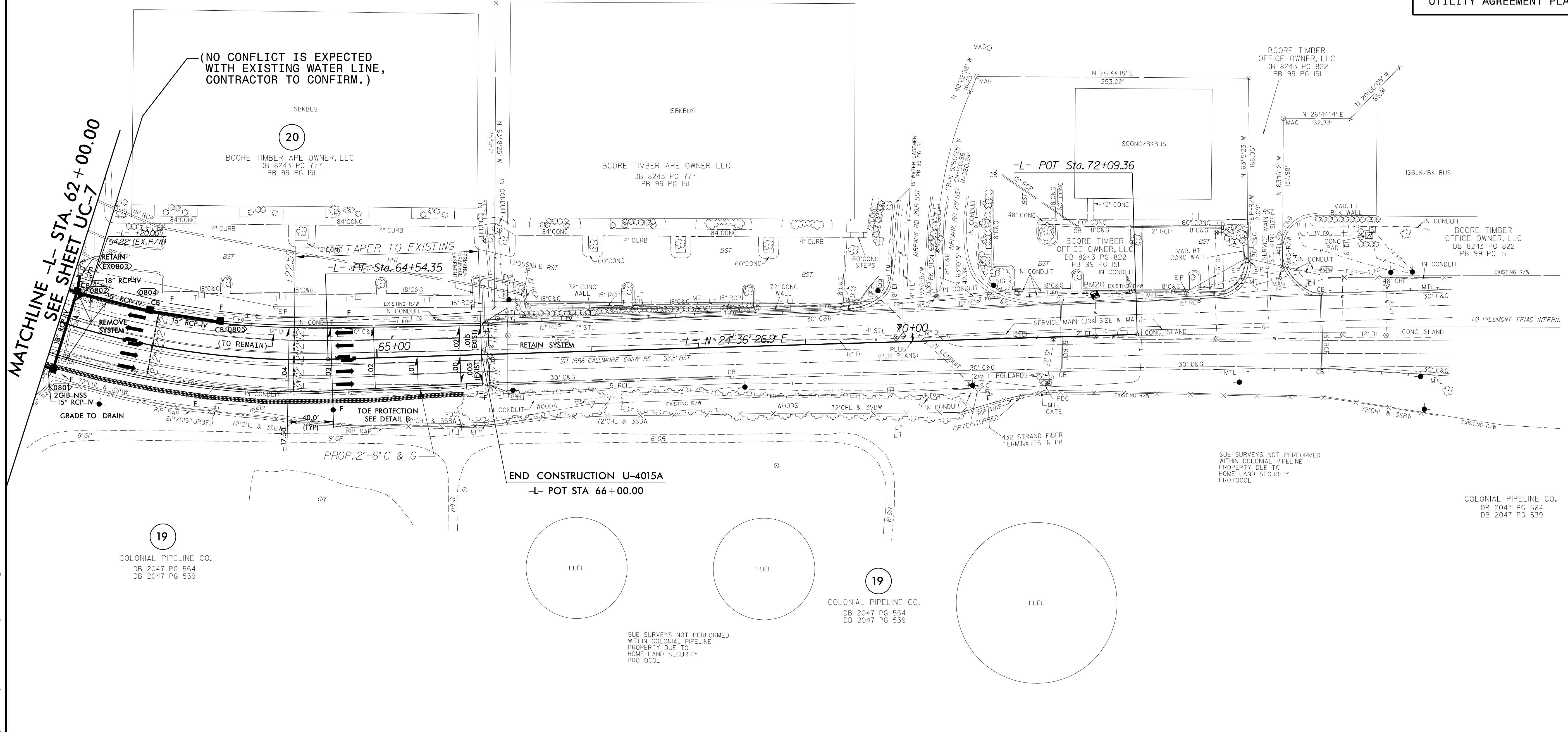
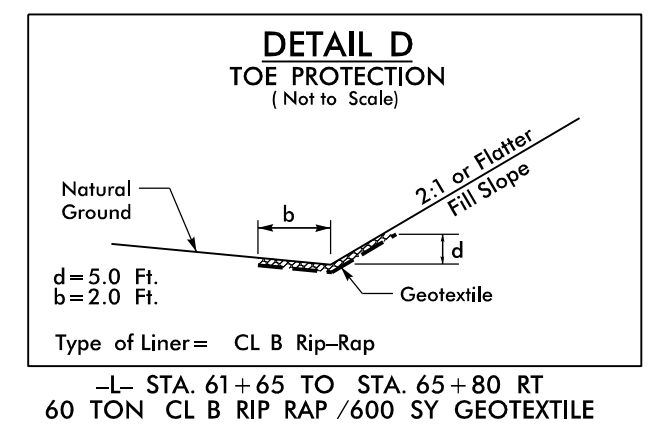


UTILITY CONSTRUCTION

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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS



MATCHLINE -L- STA. 62+00.00
SEE SHEET UC-7

(NO CONFLICT IS EXPECTED WITH EXISTING WATER LINE, CONTRACTOR TO CONFIRM.)

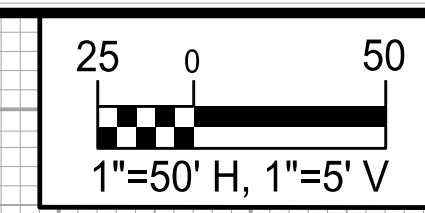
END CONSTRUCTION U-4015A
-L- POT STA 66+00.00

-L-
 PI Sta 61+23.12
 $\Delta = 55' 21'' 27.3''$ (LT)
 $D = 7' 38'' 22.0''$
 $L = 724.63'$
 $T = 393.40'$
 $R = 750.00'$
 $SE = 4\%$
 $DS = 45$ mph
 $LR = 160'$

SUE SURVEYS NOT PERFORMED WITHIN COLONIAL PIPELINE PROPERTY DUE TO HOME LAND SECURITY PROTOCOL

SUE SURVEYS NOT PERFORMED WITHIN COLONIAL PIPELINE PROPERTY DUE TO HOME LAND SECURITY PROTOCOL

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 1410 UC08.dwg



PROJECT REFERENCE NO.	SHEET NO.
U-4015A	UC-9
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

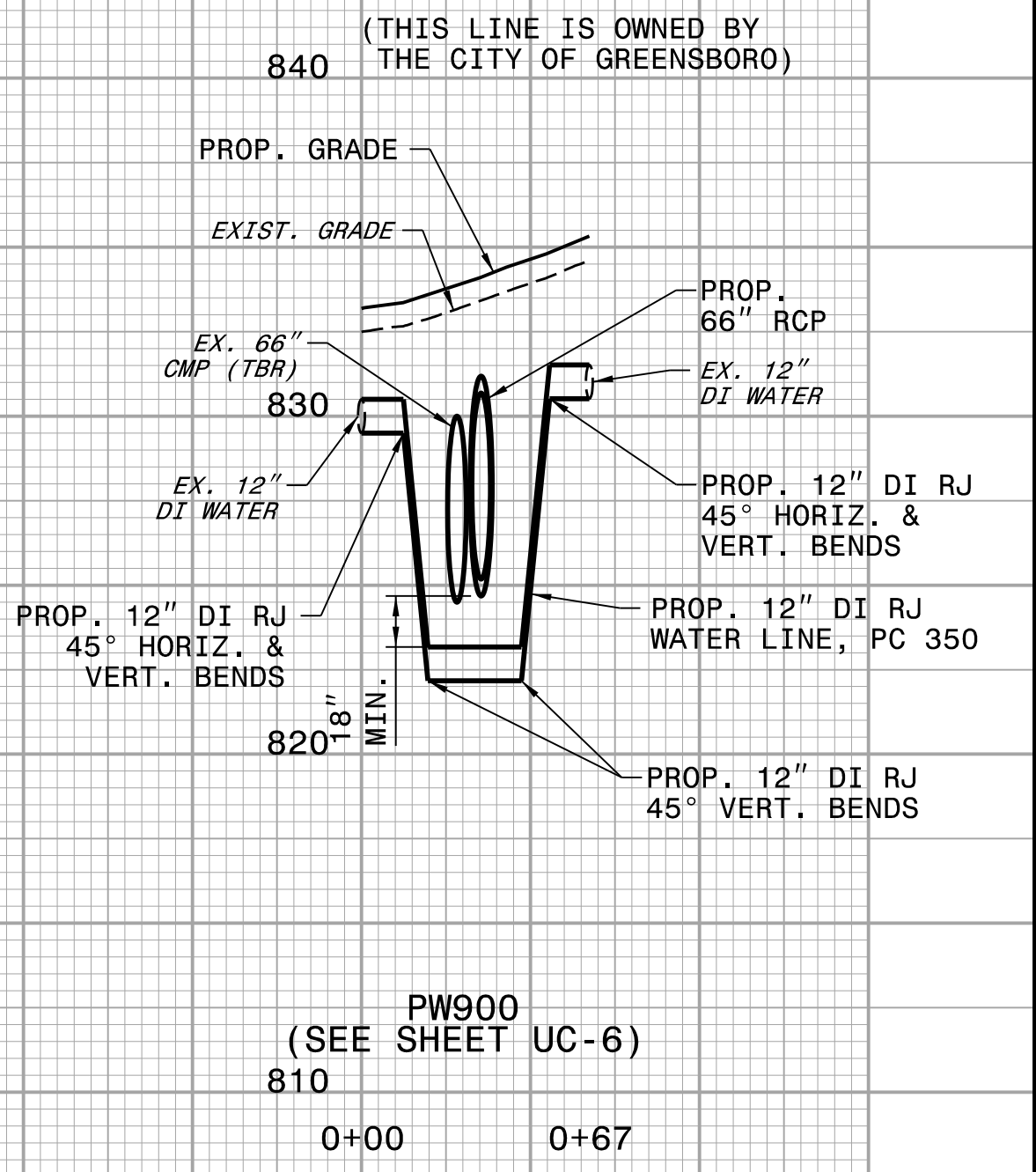
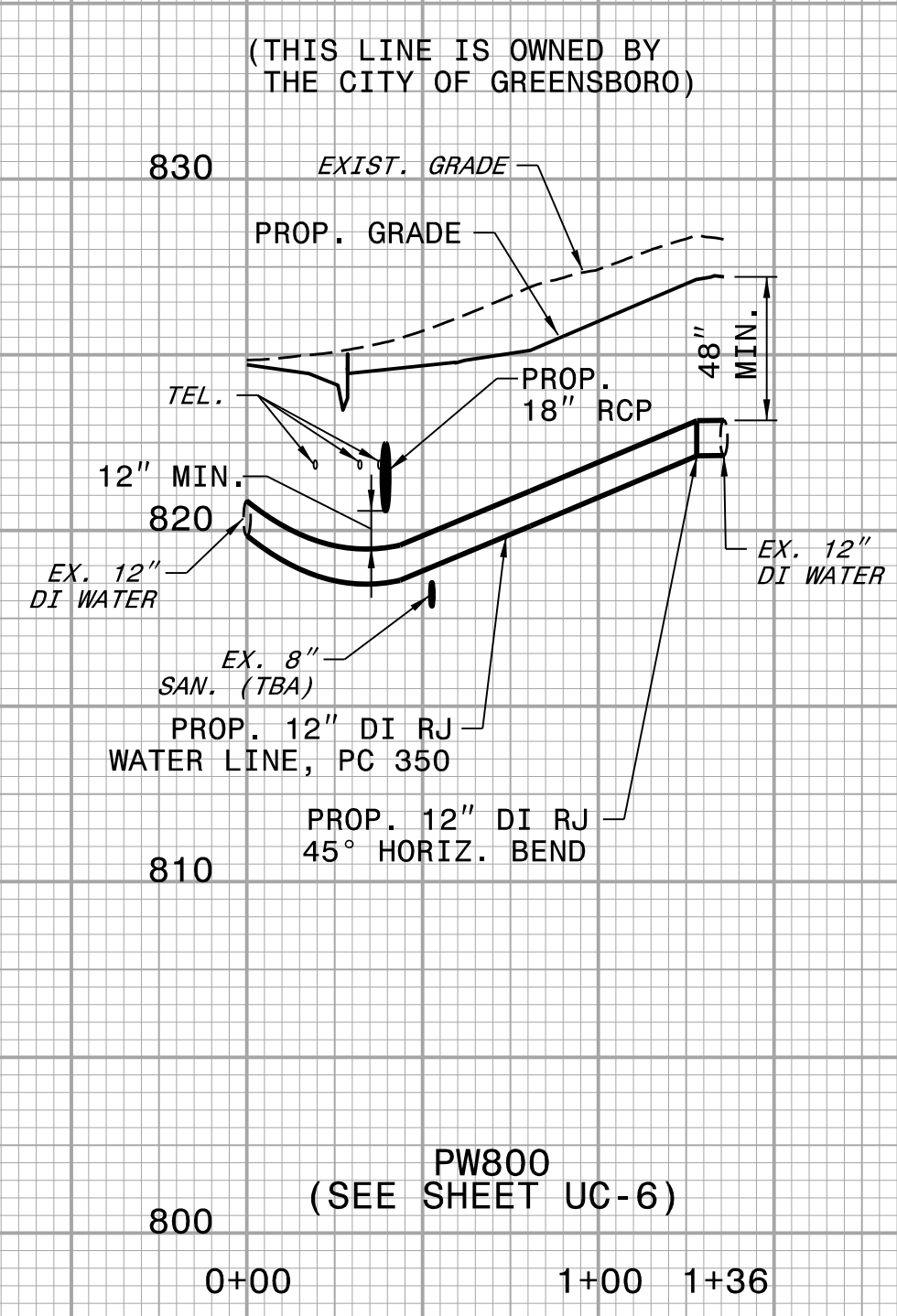
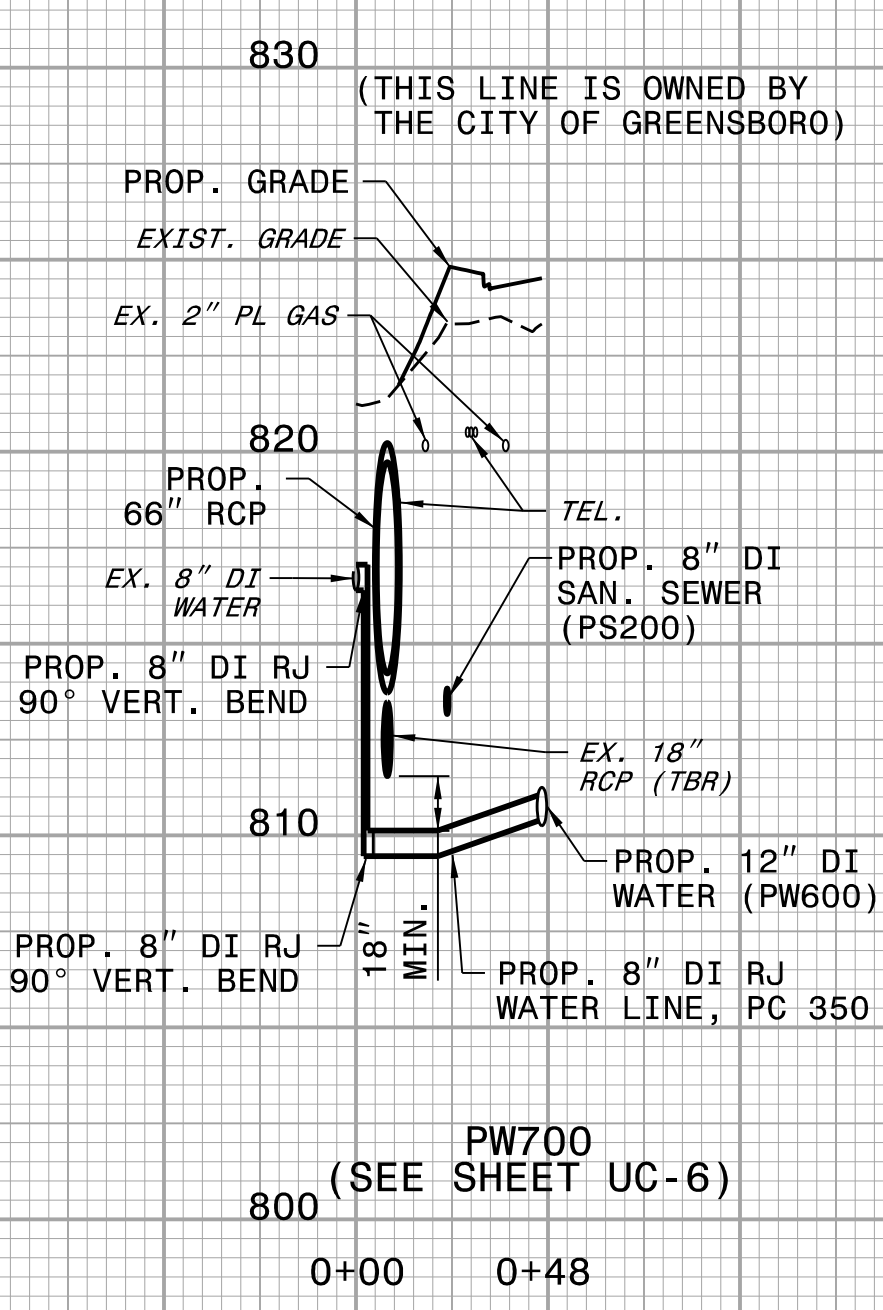
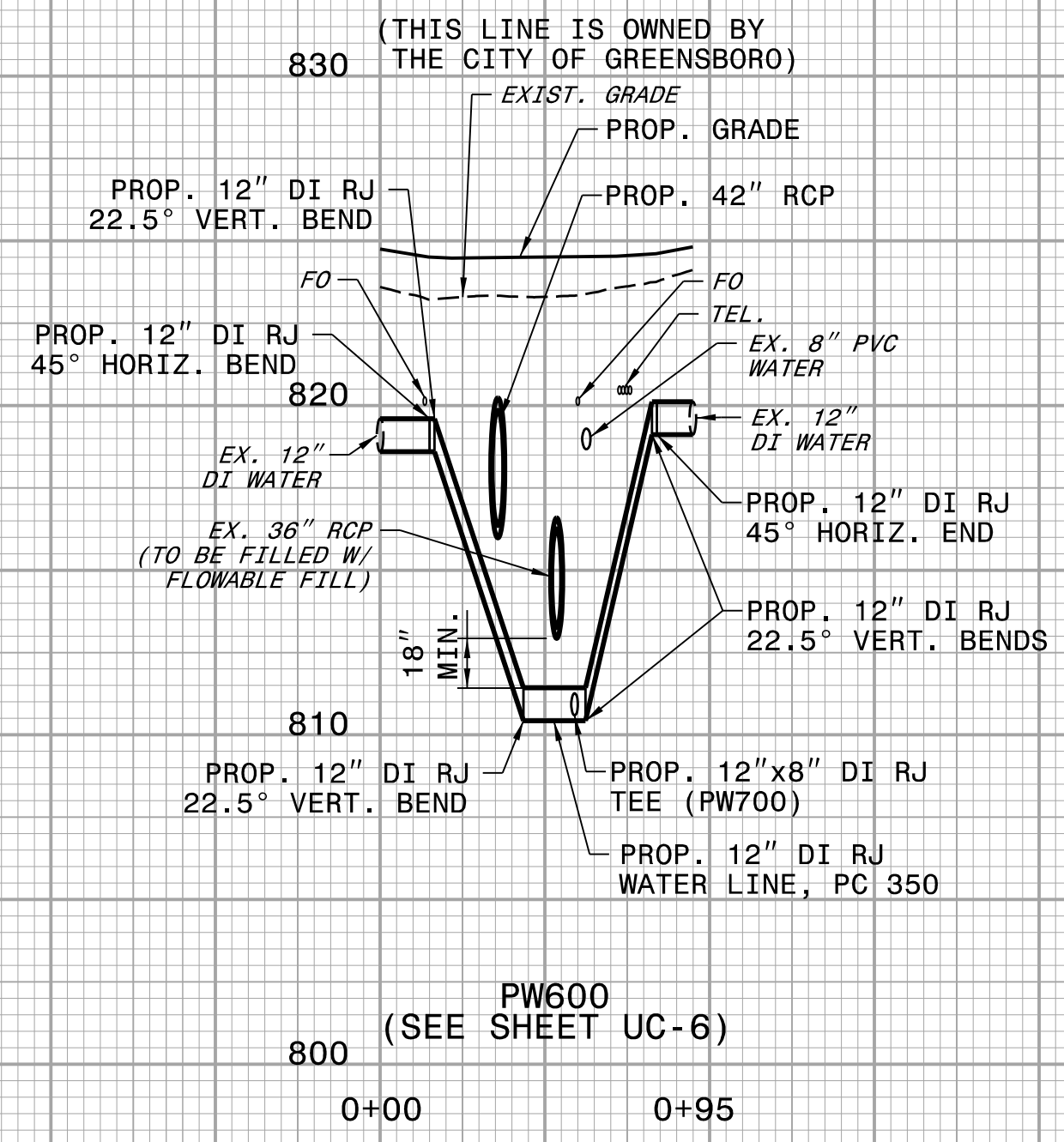
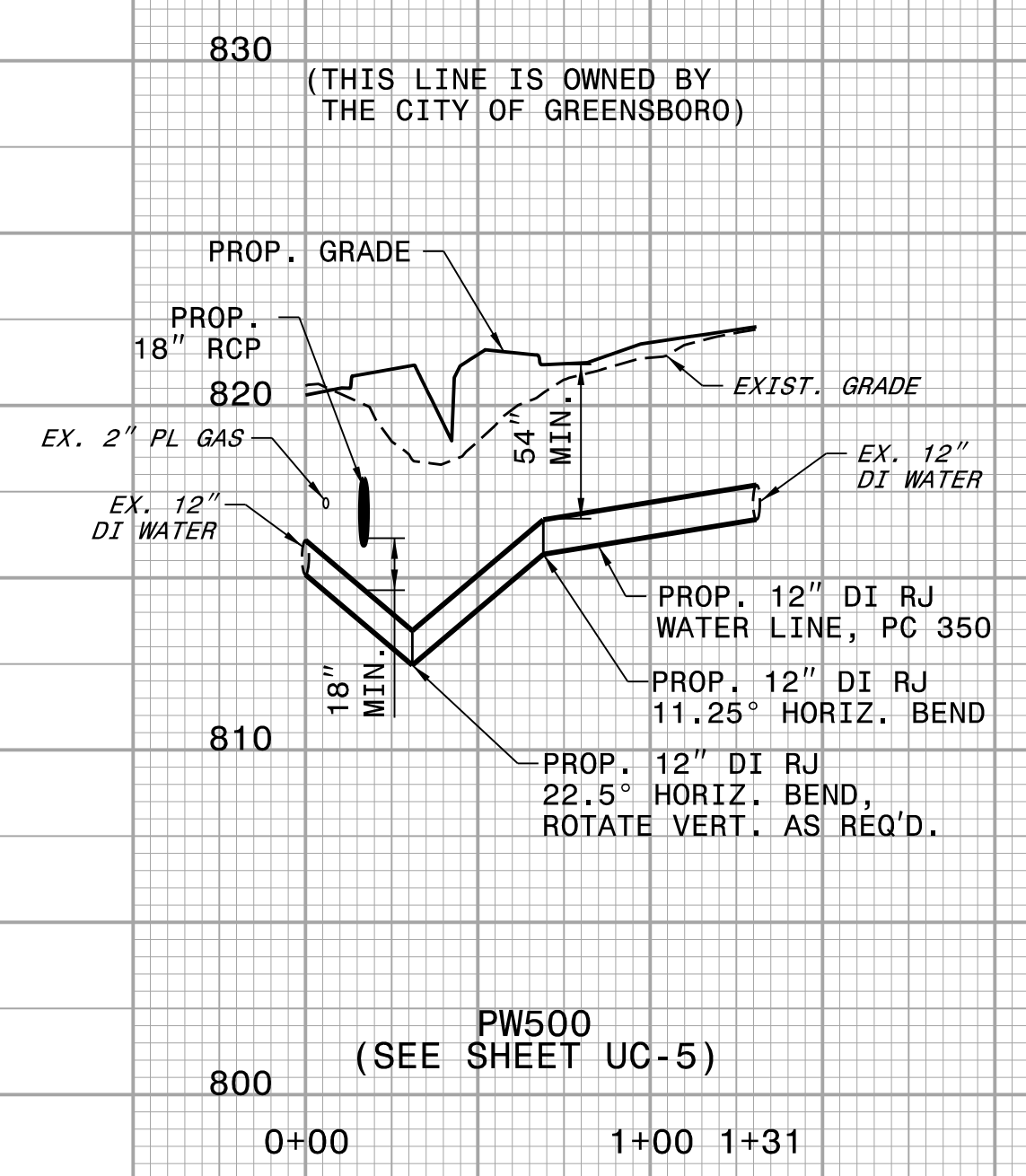
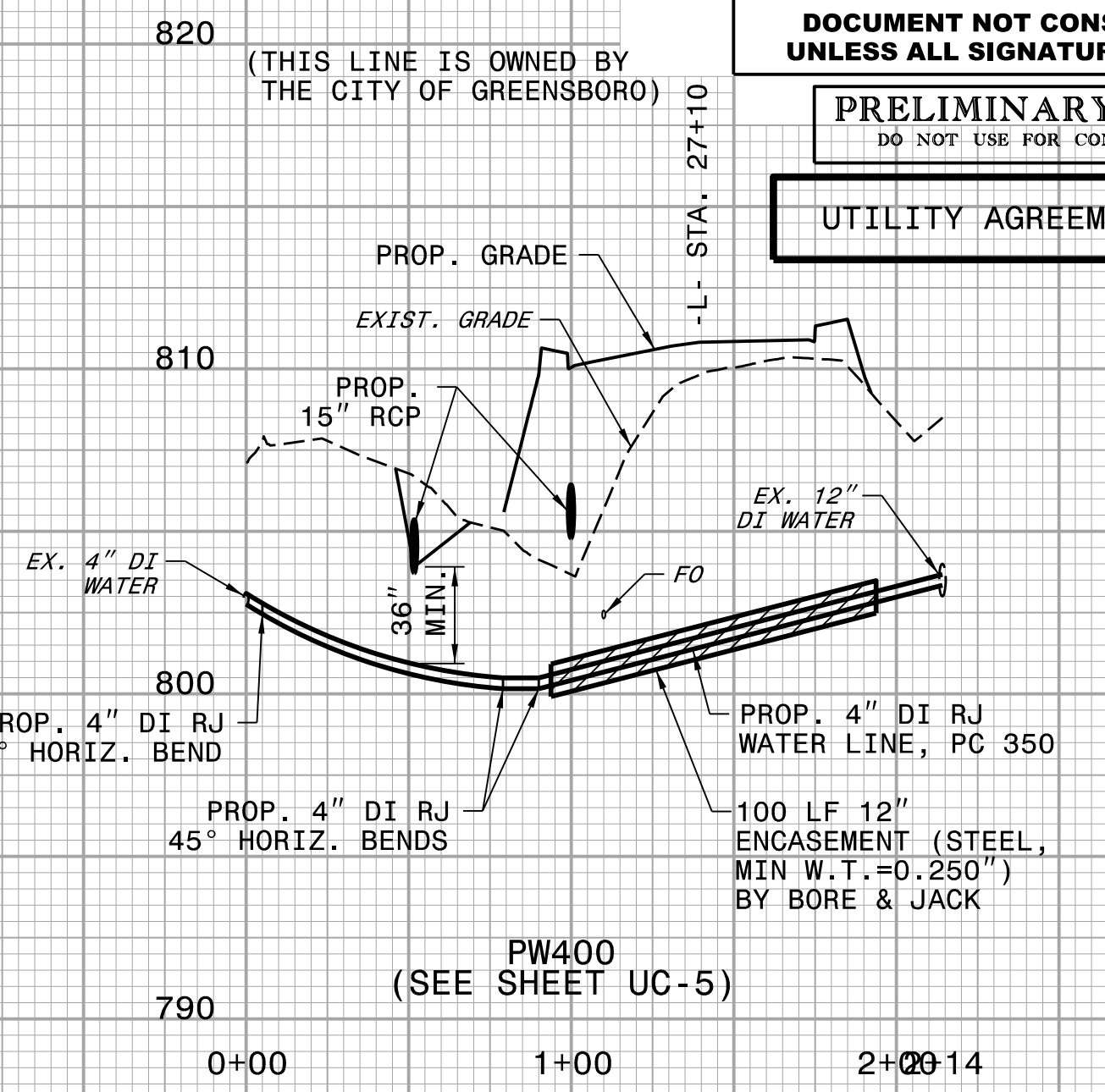
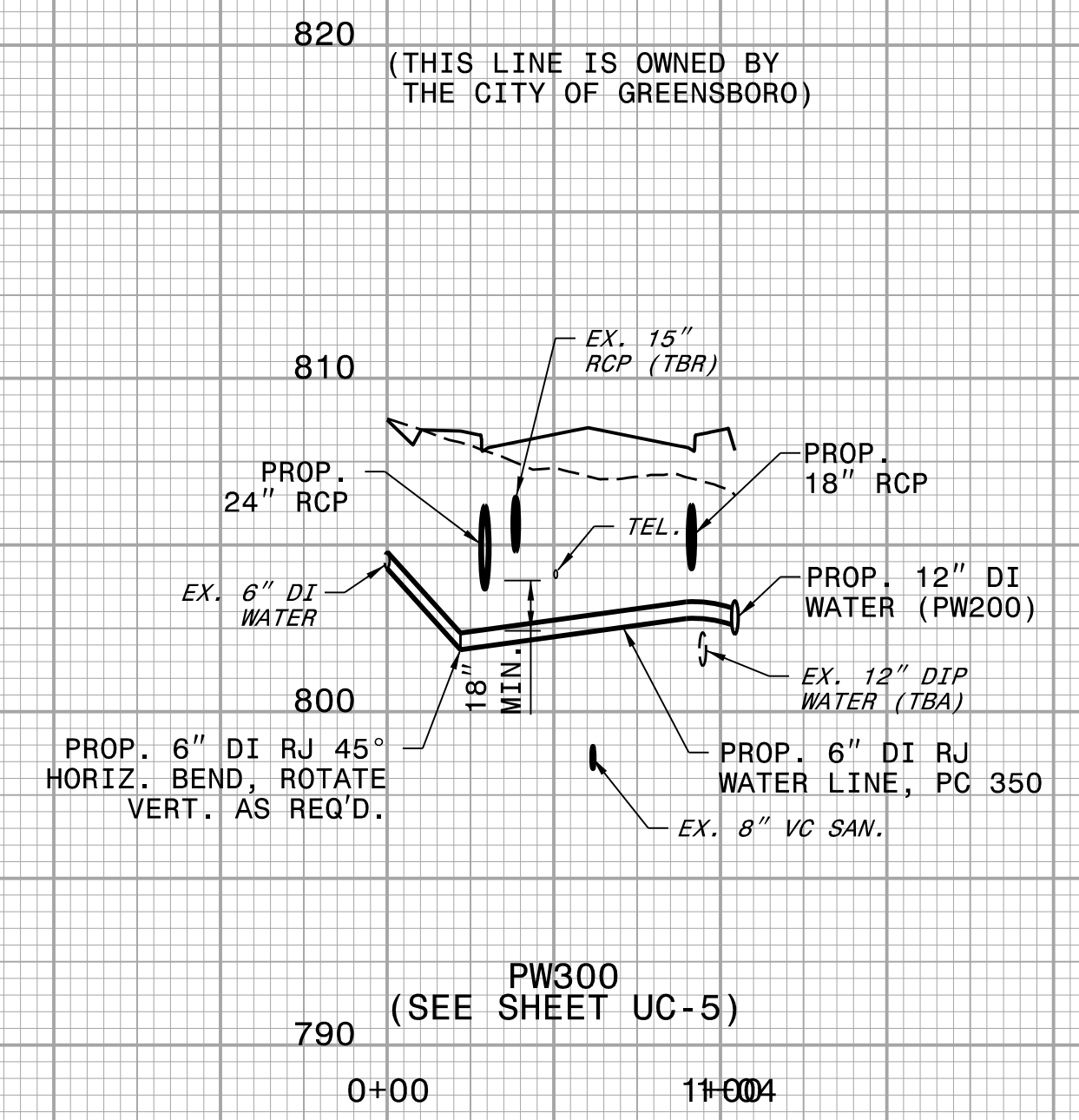
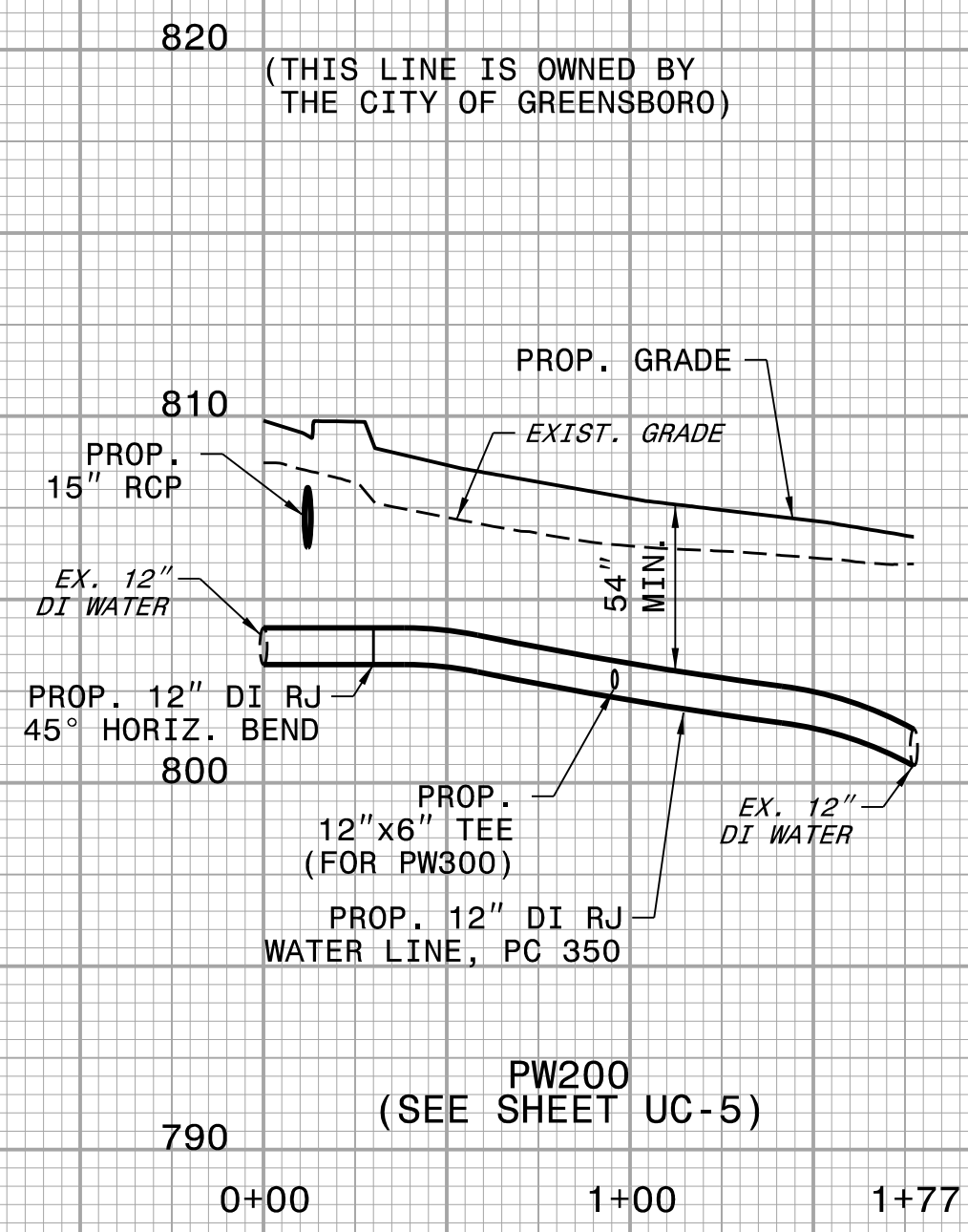
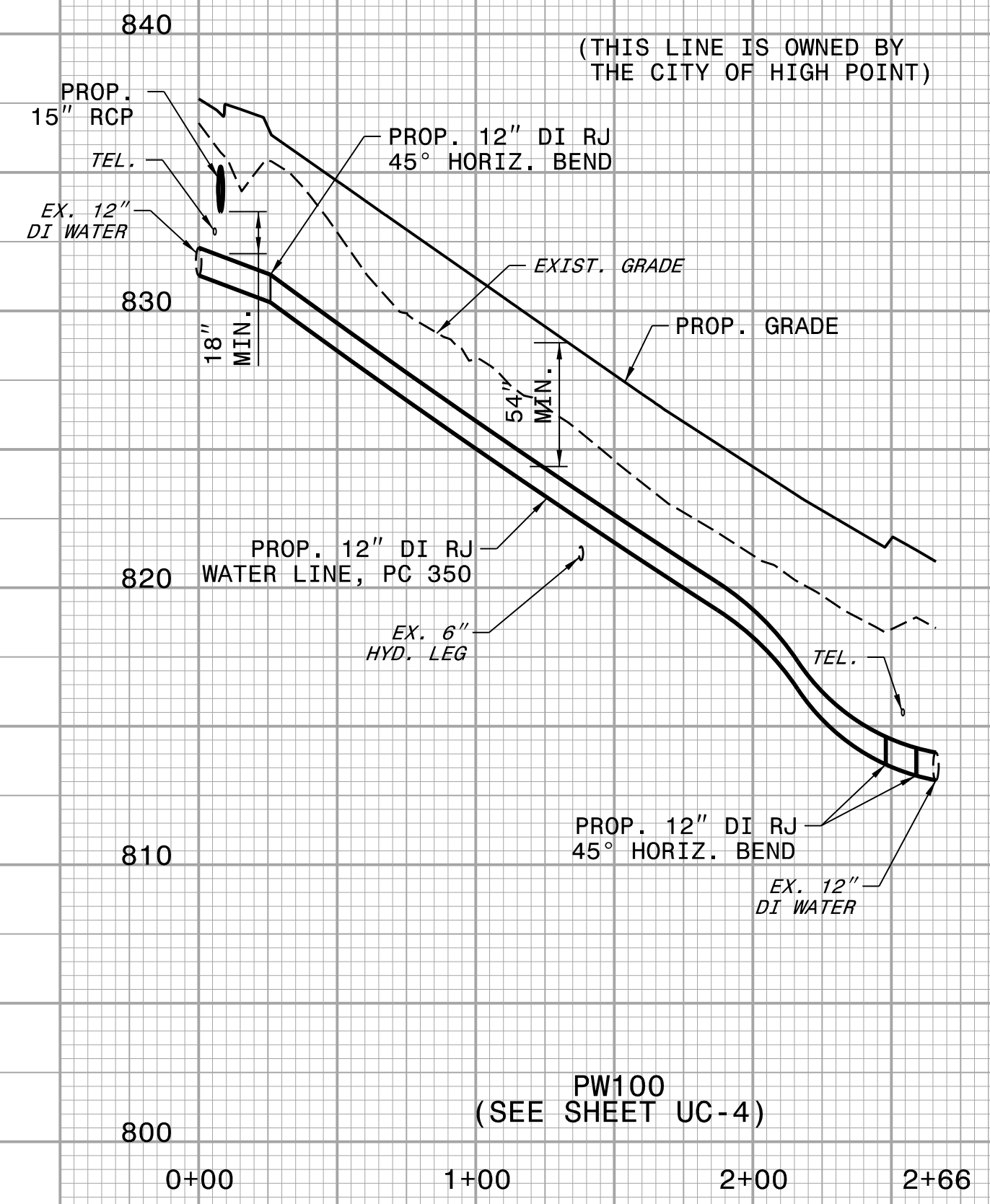
UTILITY CONSTRUCTION

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PRELIMINARY PLANS
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UTILITY AGREEMENT PLANS

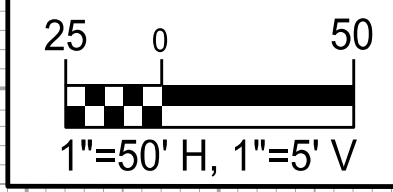
REVISIONS



5/14/99

(THIS LINE IS OWNED BY THE CITY OF GREENSBORO) 820

(THIS LINE IS OWNED BY THE CITY OF GREENSBORO) 820



PROJECT REFERENCE NO. U-4015A	SHEET NO. UC-10
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

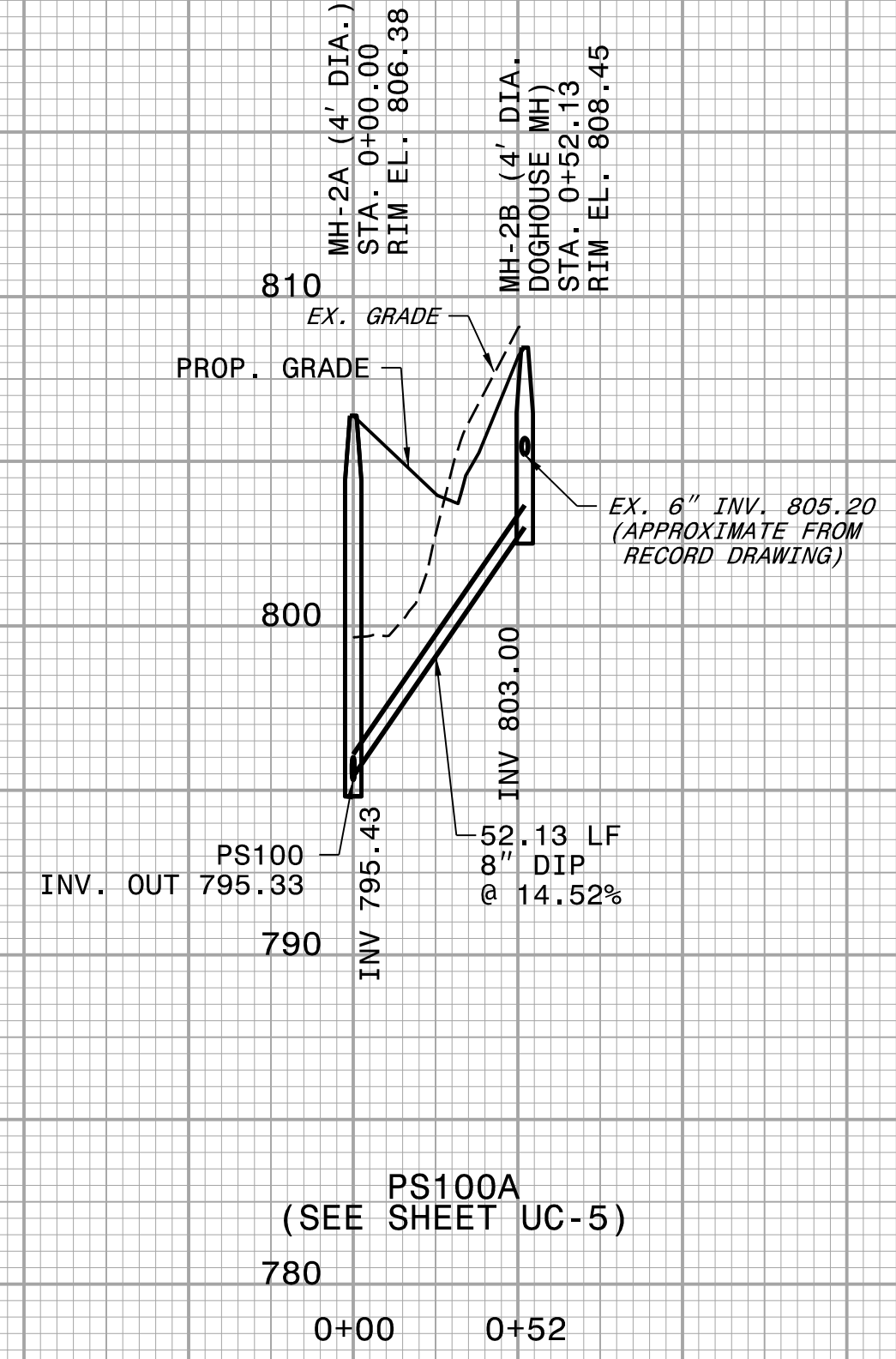
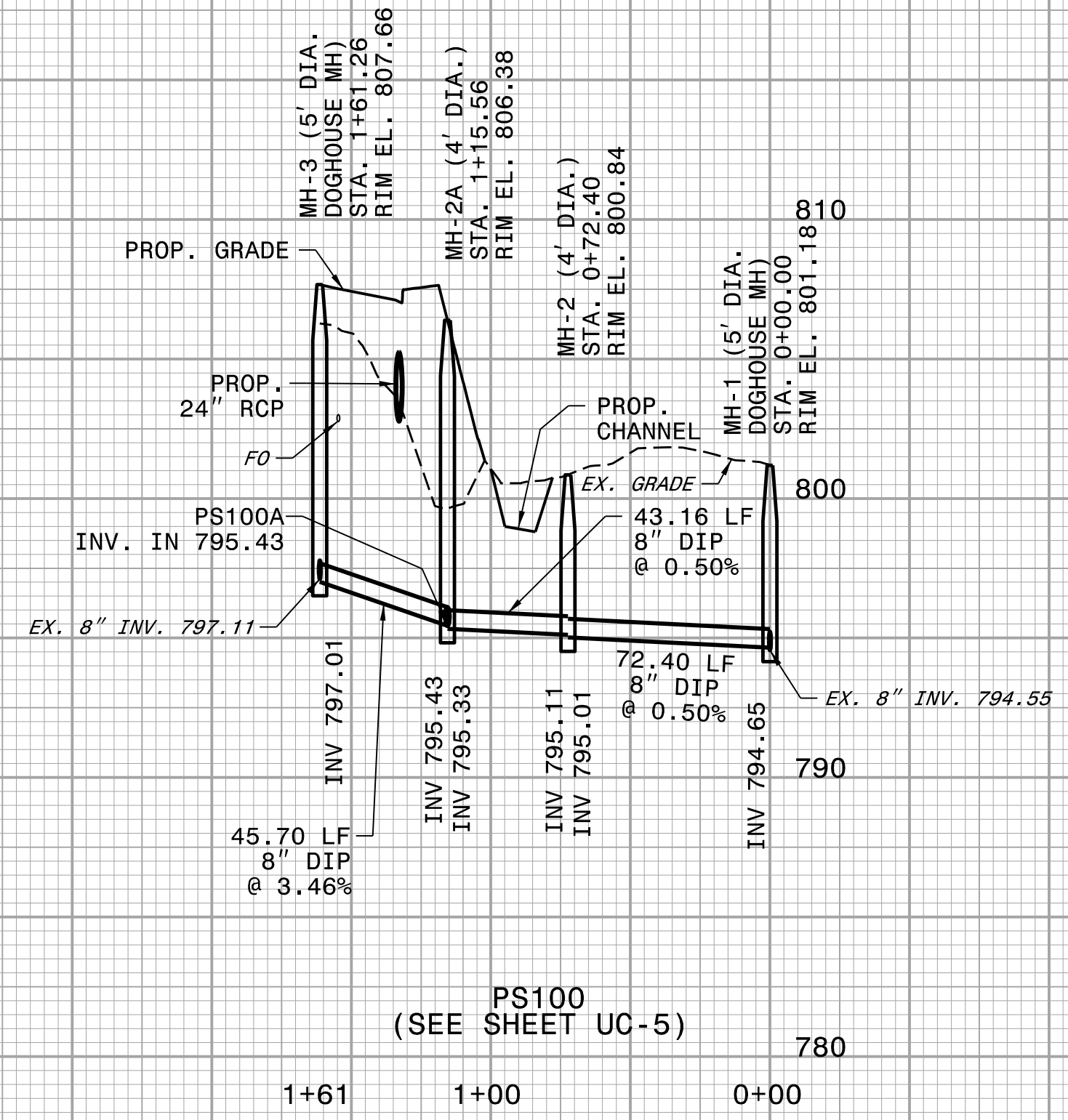
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

NOTES FOR PROPOSED MANHOLE RINGS AND COVERS:

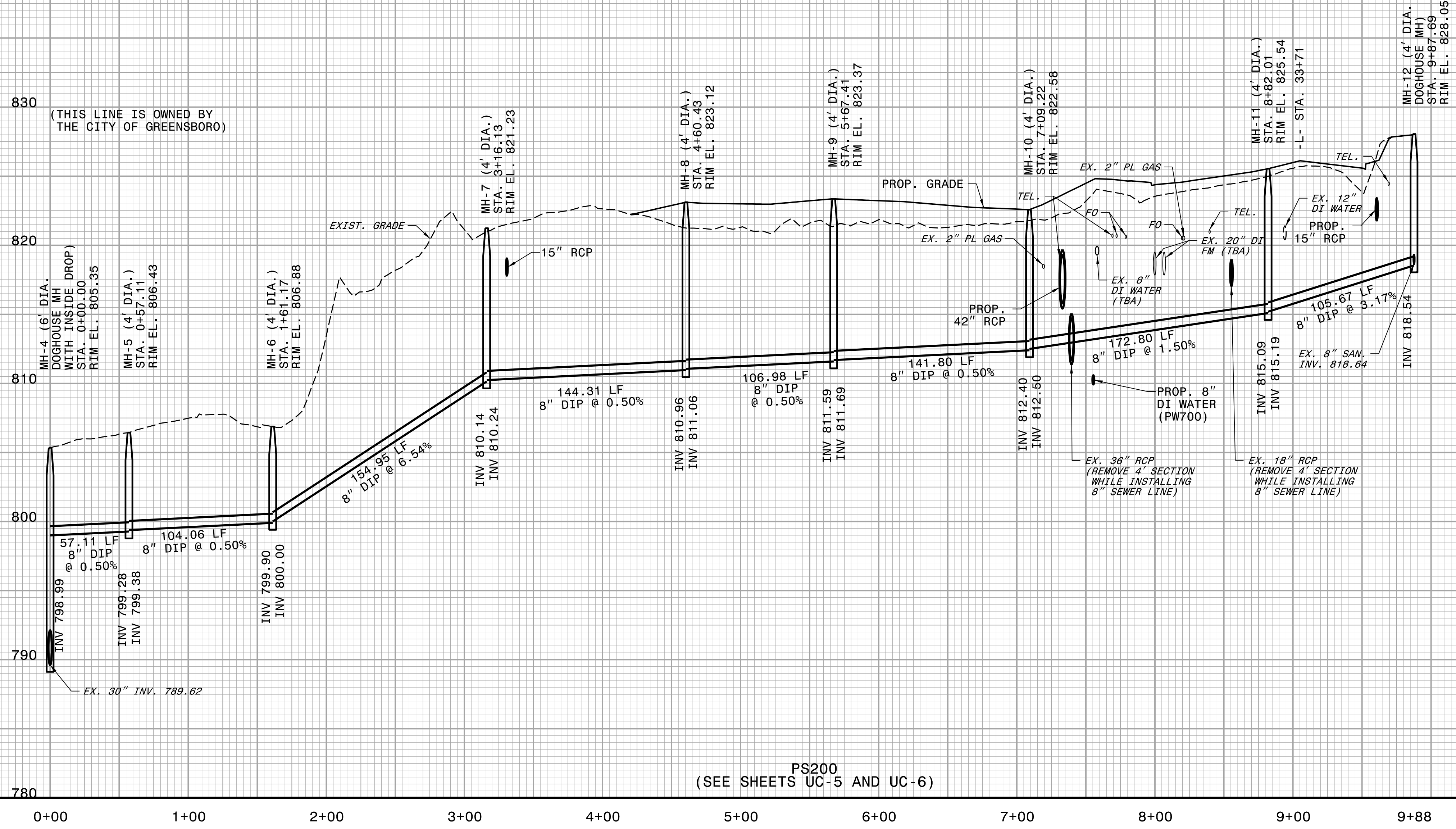
- MH RING AND COVER FOR PROPOSED MH'S 1, 2, 4, 5, 6, AND 12 ON SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER CITY OF GREENSBORO STD. NO. 205-B.
- MH RING AND COVER FOR PROPOSED MH'S 2A, 2B, 3, 7, 8, 9, 10, AND 11 SHALL BE STANDARD MH RING AND COVER, PER CITY OF GREENSBORO STD. NO. 205.



PS100 (SEE SHEET UC-5)

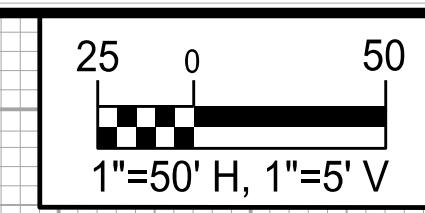
PS100A (SEE SHEET UC-5)

(THIS LINE IS OWNED BY THE CITY OF GREENSBORO) 830



PS200 (SEE SHEETS UC-5 AND UC-6)

5/14/99



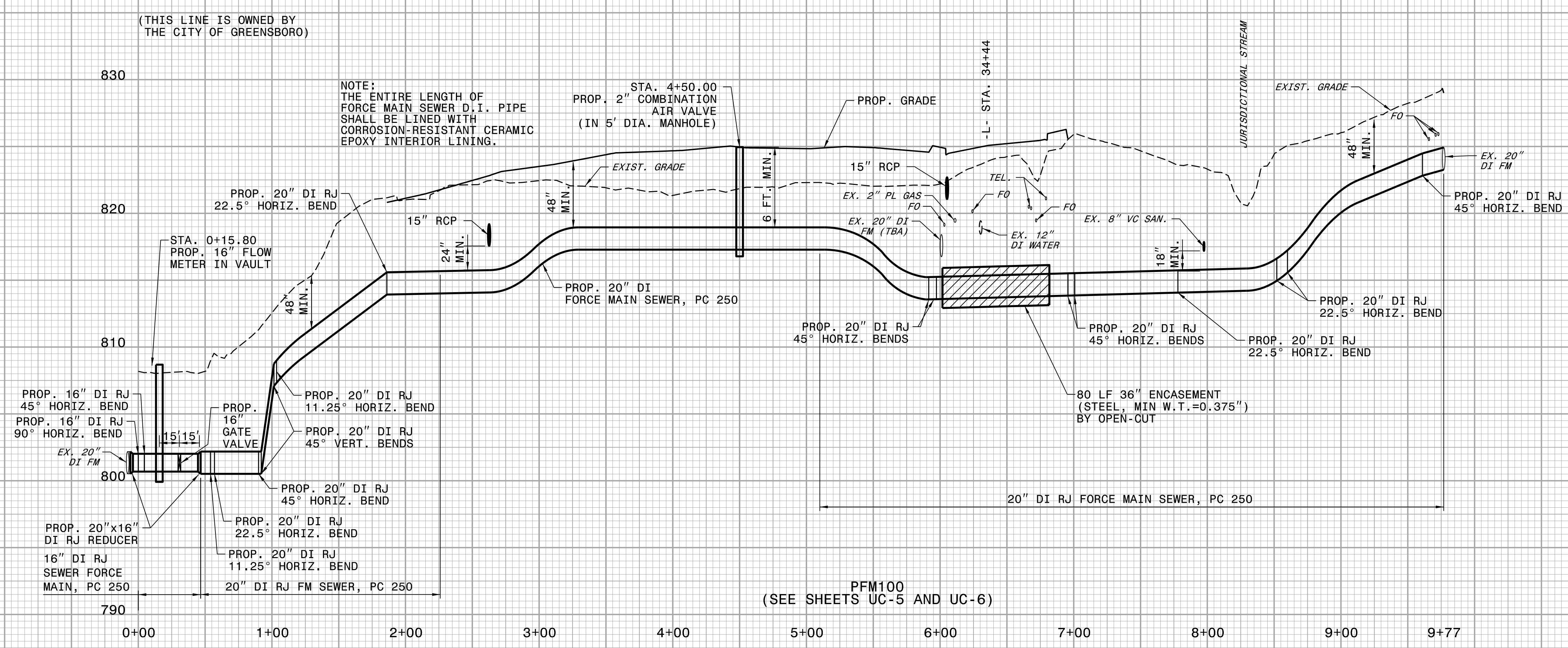
PROJECT REFERENCE NO. U-4015A	SHEET NO. UC-11
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS



N.C. Department of Transportation
 SR 1556 (Gallimore Dairy Road) from NC 68 -
 Eastchester Dr. (Lynwood Smith Expy.) to South of Airpark Road in Greensboro
 Guilford County
 NCDOT Project U-4015A

Pay Item List for Utility Construction
 Based on Final Utility Construction Plans - 12/28/2023

Type	Item Number	Section	Pay Item Description	TOTALS			TOTAL	Unit of Meas.
				State	Greensboro	High Point		
D	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	0	169	14	183	TON
D	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	0	1,060	89	1,149	SY
P	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	0	115	10	125	TON
D	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	0	14	1	15	LF
U	5325400000-E	1510	4" WATER LINE	0	214	0	214	LF
U	5325600000-E	1510	6" WATER LINE	0	104	0	104	LF
U	5325800000-E	1510	8" WATER LINE	0	76	0	76	LF
U	5326200000-E	1510	12" WATER LINE	0	606	266	872	LF
U	5329000000-E	1510	DI WATER PIPE FITTINGS	0	8,280	1,330	9,610	LBS
U	5540000000-E	1515	6" VALVE	0	1	1	2	EA
U	5546000000-E	1515	8" VALVE	0	1	0	1	EA
U	5558000000-E	1515	12" VALVE	0	1	0	1	EA
U	5558600000-E	1515	16" VALVE	0	1	0	1	EA
U	5571400000-E	1515	4" TAPPING SLEEVE AND VALVE	0	2	0	2	EA
U	5571600000-E	1515	6" TAPPING SLEEVE AND VALVE	0	4	0	4	EA
U	5590000000-E	1515	2" COMBINATION AIR VALVE	0	1	0	1	EA
U	5648000000-N	1515	RELOCATE WATER METER	0	4	0	4	EA
U	5649000000-N	1515	RECONNECT WATER METER	0	1	0	1	EA
U	5656100000-E	1515	RELOCATE 1-1/2" RPZ BACKFLOW PREVENTION ASSEMBLY	0	1	0	1	EA
U	5666000000-N	1515	FIRE HYDRANT	0	0	2	2	EA
U	5672000000-N	1515	RELOCATE FIRE HYDRANT	0	8	0	8	EA
U	5673000000-E	1515	FIRE HYDRANT LEG	0	149	46	195	LF
U	5679400000-E	1515	20" LINE STOP	0	1	0	1	EA
U	5686500000-E	1515	WATER SERVICE LINE	0	105	0	105	LF
U	5691300000-E	1520	8" SANITARY GRAVITY SEWER	0	1,201	0	1,201	LF
U	5709700000-E	1520	16" FORCE MAIN SEWER	0	48	0	48	LF
U	5709800000-E	1520	20" FORCE MAIN SEWER	0	931	0	931	LF
U	5768000000-N	1520	SANITARY SEWER CLEANOUT	0	6	2	8	EA
U	5768500000-E	1520	SEWER SERVICE LINE	0	120	40	160	LF
U	5769000000-E	1520	DI SEWER PIPE FITTINGS	0	10,560	0	10,560	LBS
U	5775000000-E	1525	4' DIA UTILITY MANHOLE	0	11	0	11	EA
U	5776000000-E	1525	5' DIA UTILITY MANHOLE	0	2	0	2	EA
U	5777000000-E	1525	6' DIA UTILITY MANHOLE	0	1	0	1	EA
U	5781000000-E	1525	UTILITY MANHOLE WALL, 4' DIA	0	37	0	37	LF
U	5782000000-E	1525	UTILITY MANHOLE WALL, 5' DIA	0	6	0	6	LF
U	5783000000-E	1525	UTILITY MANHOLE WALL, 6' DIA	0	10	0	10	LF
U	5801000000-E	1530	ABANDON 8" UTILITY PIPE	0	351	0	351	LF
U	5812000000-E	1530	ABANDON 20" UTILITY PIPE	0	1,018	0	1,018	LF
U	5815500000-N	1530	REMOVE FIRE HYDRANT	0	0	2	2	EA
U	5816000000-N	1530	ABANDON UTILITY MANHOLE	0	3	1	4	EA
U	5828000000-N	1530	REMOVE UTILITY MANHOLE	0	1	0	1	EA
U	5835600000-E	1540	12" ENCASEMENT PIPE	0	100	0	100	LF
U	5836400000-E	1540	36" ENCASEMENT PIPE	0	80	0	80	LF
U	5872500000-E	1550	BORE AND JACK OF 12"	0	100	0	100	LF
U	5882000000-N	SP	16" FLOW METER IN VAULT	0	1	0	1	EA
U	5882000000-N	SP	12" BYPASS PUMP CONNECTION	0	1	0	1	EA
U	5882000000-N	SP	20' WIDE DOUBLE-LEAF CHAIN-LINK FENCE GATE	0	1	0	1	EA
-	-	-	WITH 3-STRANDS BARBED WIRE	-	-	-	-	-
U	5888000000-E	SP	84" CHAIN-LINK FENCE WITH 3-STRANDS BARBED WIRE	0	135	0	135	LF
U	5912000000-N	SP	LIFT STATION DRIVEWAY IMPROVEMENTS	0.5	0.5	0.0	1	LS

	State	Greensboro	High Point
TOTAL ESTIMATED COST BASED ON FINAL PLANS \$	17,500	\$ 1,303,739	\$ 74,161
PERCENTAGE OF TOTAL ESTIMATED CONSTR. COST	1.3%	93.4%	5.3%

TOTAL ESTIMATED CONSTRUCTION COST \$ 1,395,400
 (State + Greensboro + High Point Combined Costs)

AGREEMENT OVERVIEW

NORTH CAROLINA
GUILFORD COUNTY

DATE: 1/9/2024

PARTIES TO THE AGREEMENT:

PROJECT NUMBERS:

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION

TIP #: U-4015A

AND

WBS ELEMENTS: 35013.3.4

CITY OF HIGH POINT

The purpose of this Agreement is to identify the participation in project costs, project delivery and/or maintenance, by the other party to this Agreement, as further defined in this Agreement.

SCOPE OF PROJECT (“Project”): The project consists of utility work associated with improvements and widening SR 1556 (Gallimore Dairy Road) to multi-lanes from NC 68 (Eastchester Drive/Lynnwood Smith Expy.) to south of Airpark Road in Greensboro.

ESTIMATED COST TO OTHER PARTY: \$74,161

PAYMENT TERMS: The Department will invoice the City of High Point upon completion of the Project.

MAINTENANCE: The City of High Point is responsible for all utility maintenance.

EFFECTIVE DATES OF AGREEMENT:

START: Upon Full Execution of this Agreement

END: When work is complete and all terms are met.

This **Agreement** is made and entered into on the last date executed below, by and between the North Carolina Department of Transportation, an agency of the State of North Carolina, hereinafter referred to as the **Department**, and the City of High Point, hereinafter referred to as the **Municipality**; and collectively referred to as the **Parties**.

The **Parties** to this Agreement, listed above, intend that this Agreement, together with all attachments, schedules, exhibits, and other documents that both are referenced in this Agreement and refer to this Agreement, represents the entire understanding between the **Parties** with respect to its subject matter and supersedes any previous communication or agreements that may exist.

I. WHEREAS STATEMENTS

WHEREAS, this Agreement is made under the authority granted to the **Department** by the North Carolina General Assembly under General Statutes of North Carolina (NCGS), particularly Chapter 136-27.1 and 136 27.3; and,

WHEREAS, the **Department** has plans to make certain street and highway constructions and/or traffic control improvements; and,

WHEREAS, the **Municipality** has requested that the **Department** perform work or provide services; and,

WHEREAS, the **Parties** hereto wish to enter into an agreement for scoped work to be performed or provided by the **Department** (including construction, reviews, goods, or services) with reimbursement for the costs thereof by the **Municipality** as hereinafter set out; and,

WHEREAS, the **Department** and the **Municipality** have agreed that the jurisdictional limits of the **Parties**, as of the date of entering the agreement for the above-mentioned project, are to be used in determining the duties, responsibilities, rights, and legal obligations of the **Parties** hereto for the purposes of this Agreement; and,

NOW, THEREFORE, this Agreement states the promises and undertakings of each party as herein provided, and the **Parties** do hereby covenant and agree, each with the other, as follows:

II. RESPONSIBILITIES

A. DEPARTMENT

The **Department** shall be responsible for all phases of project delivery to include utility relocation, construction, and/or maintenance as shown in the **PROJECT DELIVERY** Provision.

B. MUNICIPALITY

The **Municipality** shall be responsible for payment as shown in the **COSTS AND FUNDING** Provision

III. PROJECT DELIVERY REQUIREMENTS

A. CONSTRUCTION

- i. At the request of the **Municipality**, the **Department** shall place provisions in the construction contract for Project U-4015A, for the contractor to adjust and relocate utility lines and/or provide betterment. The work is described as follows: utility work under U-4015A.

- ii. Said work shall be accomplished in accordance with plan sheets, attached hereto as Exhibit "A", cost estimate attached hereto as Exhibit "B", and project specific provisions, if applicable, attached hereto as Exhibit "C".

B. MAINTENANCE

- i. Upon the satisfactory completion of the relocations and adjustments of the utility lines covered under this Agreement, the **Municipality** shall assume normal maintenance operations to the said utility lines. Upon completion of the construction of the highway project, the **Municipality** shall release the **Department** from any and all claims for damages in connection with adjustments made to its utility lines; and, further, the **Municipality** shall release the **Department** of any future responsibility for the cost of maintenance to said utility lines. Said releases shall be deemed to be given by the **Municipality** upon completion of construction of the project and its acceptance by the **Department** from its contractor unless the **Municipality** notifies the **Department**, in writing, to the contrary prior to the **Department's** acceptance of the project.
- ii. The **Municipality** obligates itself to service and to maintain its facilities to be retained and installed over and along the highway within the **Department's** right-of-way limits in accordance with the mandate of the North Carolina General Statutes and such other laws, rules, and regulations as have been or may be validly enacted or adopted, now or hereafter.
- iii. If at any time the **Department** shall require the removal of or changes in the location of the encroaching facilities which are being relocated at the **Municipality's** expense, the **Municipality** binds itself, its successors and assigns, to promptly remove or alter said facilities, in order to conform to the said requirement (if applicable per G.S. 136-27.1), without any cost to the **Department**.

IV. COSTS AND FUNDING

A. PROJECT COSTS

- i. The **Municipality** shall be responsible for relocation, and/or betterment, costs for work as shown on the attached Exhibit "A". The estimated cost to the **Municipality** is \$74,161 as shown on the attached Exhibit "B".
- ii. It is understood by both **Parties** that this is an estimated cost and is subject to change.

B. INVOICING BY THE DEPARTMENT

- i. Upon completion of the highway work, the **Department** shall submit an itemized invoice to the **Municipality** for costs incurred. Billing will be based upon the actual bid prices and actual quantities used and shall include charges due to the **Department** for administration and oversight of the work.

**ACCOUNTS RECEIVABLE
UTILITY CONSTRUCTION AGREEMENT
1000020693**

- ii. Reimbursement shall be made by the **Municipality** in one final payment within sixty (60) days of said invoice.
- iii. If the **Municipality** does not pay said invoice within sixty (60) days of the date of the invoice, the **Department** shall charge interest on any unpaid balance at a variable rate of the prime plus one percent (1%) in accordance with G.S. 136-27.3.
- iv. Any cost incurred due to additional utility work requested by the **Municipality** after award of the construction contract, shall be solely the responsibility of the **Municipality**. The **Municipality** shall reimburse the **Department** 100% of the additional utility cost.
- v. In the event the **Municipality** fails for any reason to pay the **Department** in accordance with the provisions for payment hereinabove provided, North Carolina General Statute 136-41.3 authorizes the **Department** to withhold so much of the **Municipality's** share of funds allocated to said **Municipality** by North Carolina General Statute, Section 136-41.1, until such time as the **Department** has received payment in full.

C. DOWN PAYMENT OR PRE-PAYMENT

- i. Any down payments are due at the time the agreement is fully executed.
- ii. At any time prior to final billing by the **Department**, the **Municipality** may prepay any portion of the estimated cost by sending payment per the attached cover memo. The **Department** will provide a final billing based on the fixed cost, less any previous payments that have been made.

V. STANDARD PROVISIONS

A. AGREEMENT MODIFICATIONS

Any modification to scope, funding, responsibilities, or time frame will be agreed upon by all **Parties** by means of a written Supplemental Agreement.

B. ASSIGNMENT OF RESPONSIBILITIES

The **Department** must approve any assignment or transfer of the responsibilities of the **Municipality** set forth in this Agreement to other parties or entities.

C. AGREEMENT FOR IDENTIFIED PARTIES ONLY

This Agreement is solely for the benefit of the identified **Parties** to the Agreement and is not intended to give any rights, claims, or benefits to third parties or to the public at large.

D. OTHER AGREEMENTS

The **Municipality** is solely responsible for all agreements, contracts, and work orders entered into or issued by the **Municipality** to meet the terms of this Agreement. The **Department** is not responsible for any expenses or obligations incurred for the terms of this Agreement except those specifically eligible for the funds and obligations as approved by the **Department** under the terms of this Agreement.

E. TITLE VI

The other party to this Agreement shall comply with Title VI of the Civil Rights Act of 1964 (Title 49 CFR, Subtitle A, Part 21) and related nondiscrimination authorities. Title VI and related authorities prohibit discrimination on the basis of race, color, national origin, disability, gender, and age in all programs or activities of any recipient of Federal assistance.

F. FACSIMILE

A copy or facsimile copy of the signature of any party shall be deemed an original with each fully executed copy of the Agreement as binding as an original, and the **Parties** agree that this Agreement can be executed in counterparts, as duplicate originals, with facsimile signatures sufficient to evidence an agreement to be bound by the terms of the Agreement.

G. AUTHORIZATION TO EXECUTE

The **Parties** hereby acknowledge that the individual executing this Agreement has read this Agreement, conferred with legal counsel, fully understands its contents, and is authorized to execute this Agreement and to bind the respective **Parties** to the terms contained herein.

H. DEBARMENT POLICY

It is the policy of the **Department** not to enter into any agreement with **Parties** that have been debarred by any government agency (Federal or State). By execution of this agreement, the **Municipality** certifies that neither it nor its agents or contractors are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal or State Agency or Department and that it will not enter into agreements with any entity that is debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction.

I. INDEMNIFICATION

To the extent authorized by state and federal claims statutes, the **Municipality** shall be responsible for its actions under the terms of this agreement and save harmless the FHWA (if applicable), the **Department**, and the State of North Carolina, their respective officers, directors, principals, employees, agents, successors, and assigns from and against any and all claim for payment, damages and/or liabilities of any nature, asserted against the **Department** in connection with this Agreement. The **Department** shall not be liable and shall

be held harmless from any and all third-party claims that might arise on account of the **Municipality's** negligence and/or responsibilities under the terms of this agreement.

J. AVAILABILITY OF FUNDS

All terms and conditions of this Agreement are dependent upon, and, subject to the allocation of funds for the purpose set forth in the Agreement and the Agreement shall automatically terminate if funds cease to be available.

K. DOCUSIGN

The **Department** and **Municipality** acknowledge and agree that the electronic signature application DocuSign may be used, at the sole election of the **Department** or the **Municipality**, to execute this Agreement. By selecting "I Agree", "I Accept", or other similar item, button, or icon via use of a keypad, mouse, or other device, as part of the DocuSign application, the **Department** and **Municipality** consent to be legally bound by the terms and conditions of Agreement and that such act constitutes **Department's** signature as if actually signed by the **Department** in writing or the **Municipality's** signature as if actually signed by the **Municipality** in writing. The **Department** and **Municipality** also agree that no certification authority or other third-party verification is necessary to validate its electronic signature and that the lack of such certification or third-party verification will not in any way affect the enforceability of its electronic signature. The **Department** and **Municipality** acknowledge and agree that delivery of a copy of this Agreement or any other document contemplated hereby through the DocuSign application, will have the same effect as physical delivery of the paper document bearing an original written signature.

L. GIFT BAN

By Executive Order 24, issued by Governor Perdue, and NCGS 133-32, it is unlawful for any vendor or contractor (i.e. architect, bidder, contractor, construction manager, design professional, engineer, landlord, offeror, seller, subcontractor, supplier, or vendor), to make gifts or to give favors to any State employee of the Governor's Cabinet Agencies (i.e. Administration, Adult Corrections, Commerce, Environmental Quality, Health and Human Services, Information Technology, Military and Veterans Affairs, Natural and Cultural Resources, Public Safety, Revenue, Transportation, and the Office of the Governor).

SIGNATURE PAGE

IN WITNESS WHEREOF, this Agreement has been executed the day and year heretofore set out, on the part of the **Department** and the **Municipality** by authority duly given.

(DOCUSIGN ONLY)

Authorized Signer: _____

Print Name: _____

Title: _____

Date Signed: _____

If applicable, this Agreement has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act:

CITY OF HIGH POINT

FED TAX ID NO: _____

Finance Officer: _____

REMITTANCE ADDRESS: _____

Print Name: _____

Date Signed: _____

DEPARTMENT OF TRANSPORTATION

BY: _____

TITLE: _____

DATE: _____

APPROVED BY BOARD OF TRANSPORTATION ITEM O: _____ (DATE)

SIGNATURE PAGE

IN WITNESS WHEREOF, this Agreement has been executed the day and year heretofore set out, on the part of the **Department** and the **Municipality** by authority duly given.

(INK SIGNATURES ONLY)

ATTEST: _____ Authorized Signer: _____

BY: _____ Print Name: _____

TITLE: _____ Title: _____

Date Signed: _____

If applicable, this Agreement has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act:

CITY OF HIGH POINT

FED TAX ID NO: _____ Finance Officer: _____

REMITTANCE ADDRESS: _____ Print Name: _____

_____ Date Signed: _____

DEPARTMENT OF TRANSPORTATION (DocuSign)

BY: _____

TITLE: _____

DATE: _____

APPROVED BY BOARD OF TRANSPORTATION ITEM O: _____ (DATE)