

09/08/2019

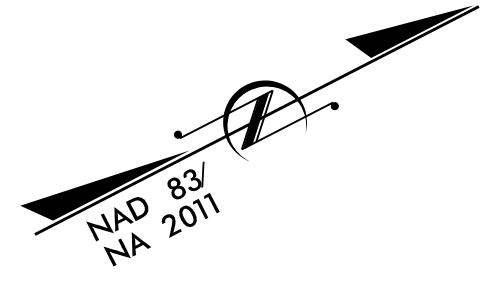
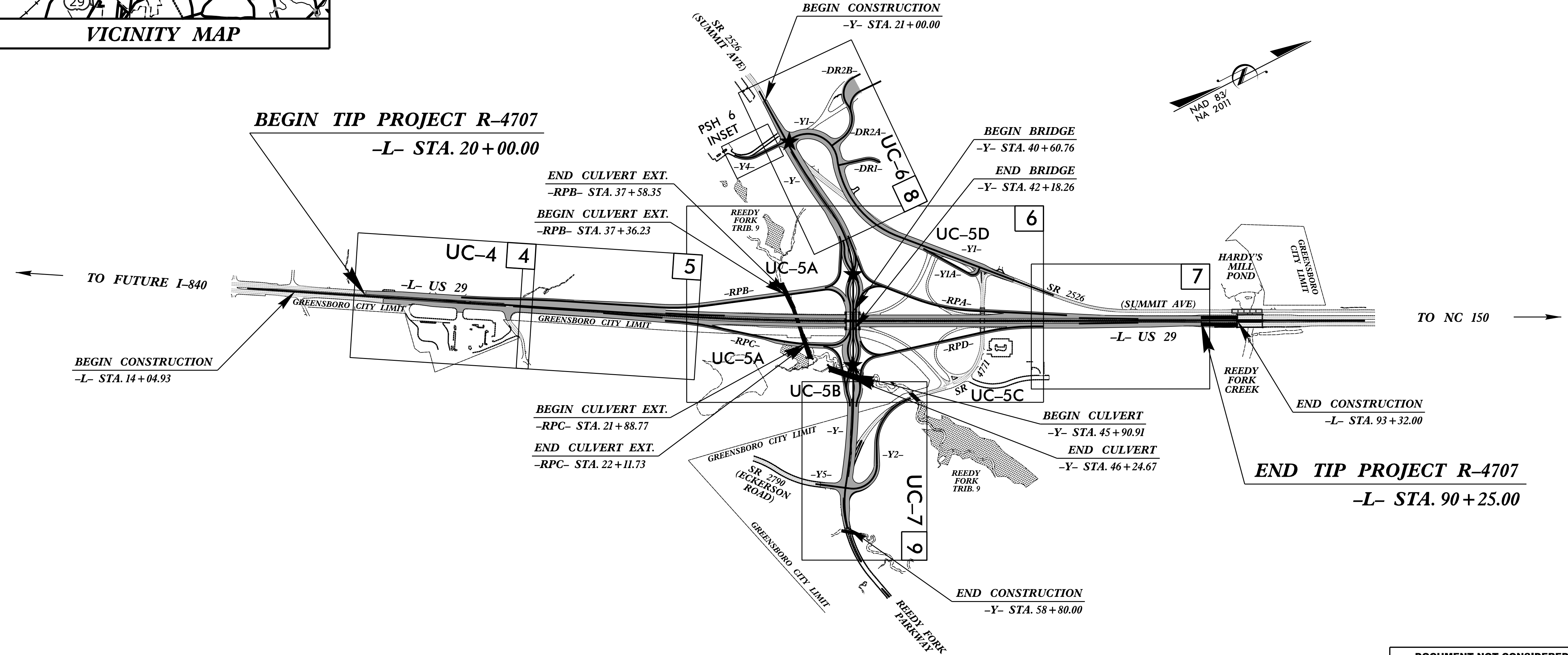
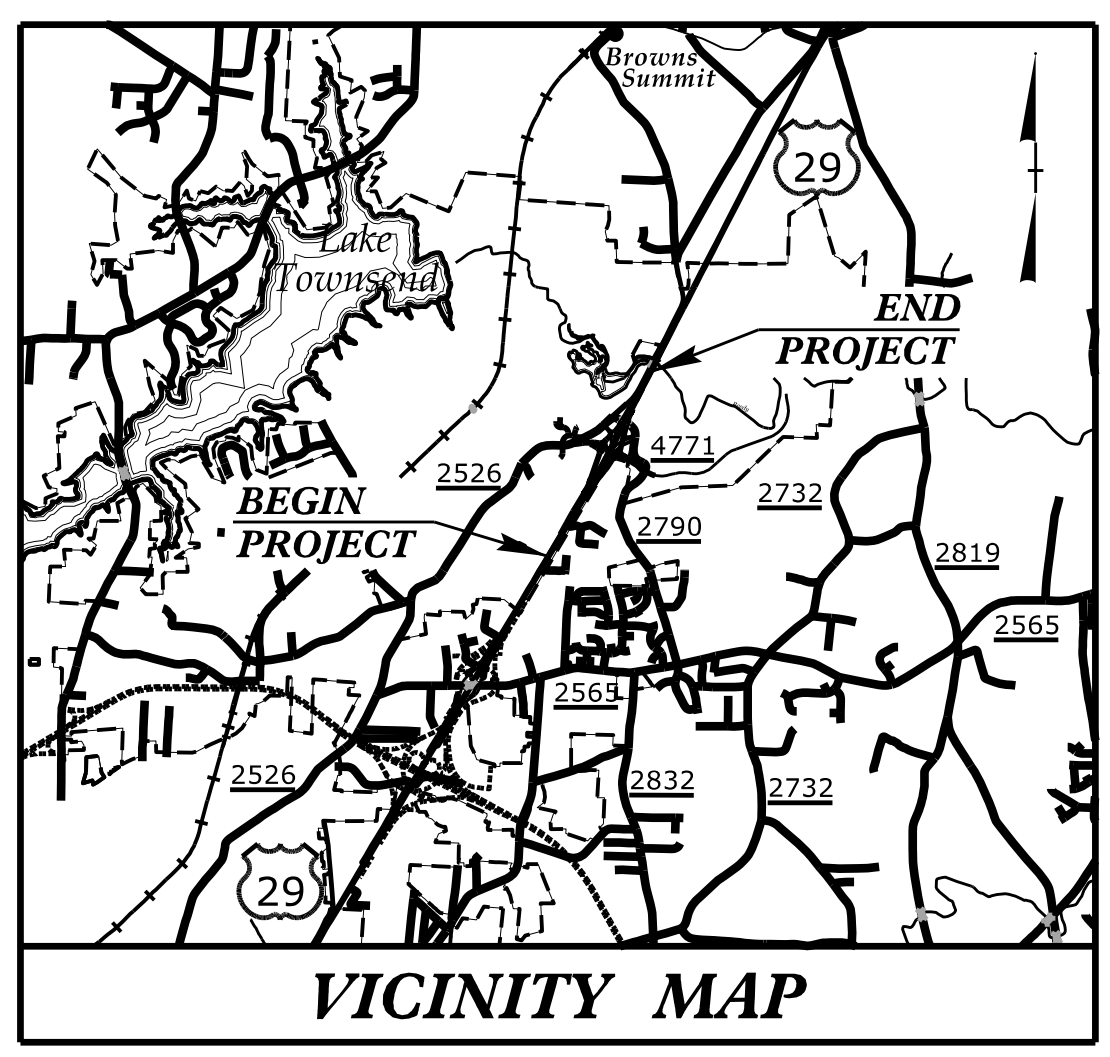
TIP PROJECT: R-4707

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
R-4707	UC-1

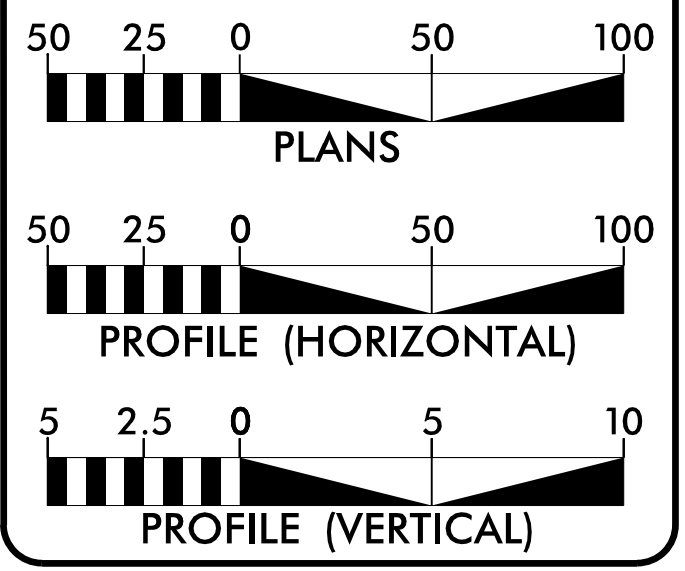
# UTILITY CONSTRUCTION PLANS GUILFORD COUNTY

LOCATION: US 29 AND SR 4771 (REEDY FORK PARKWAY) INTERCHANGE  
IMPROVEMENTS IN GREENSBORO; IMPROVE ROADWAY,  
MODIFY INTERCHANGE AND REPLACE BRIDGE 400360  
TYPE OF WORK: UTILITY CONSTRUCTION



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

### GRAPHIC SCALES



### 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-7	UTILITY CONSTRUCTION SHEETS
UC-8 THRU UC-11	PROFILE SHEETS

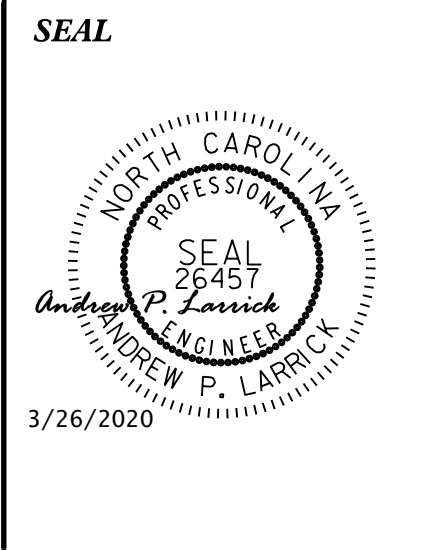
### WATER AND SEWER OWNERS ON PROJECT

- A) WATER - CITY OF GREENSBORO
- B) SEWER - CITY OF GREENSBORO

PREPARED IN THE OFFICE OF:  
**DAVIS • MARTIN • POWELL**  
ENGINEERS & SURVEYORS

6415 OLD PLANK RD., HIGH POINT, NC 27265  
PHONE: (336)886-4821 FAX: (336)886-4438  
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



DIVISION OF HIGHWAYS  
UTILITIES UNIT  
1555 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1555  
PHONE (919) 707-6690  
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- Tucker Martin, P.E. CENTRAL UTILITIES MANAGER
- Ali Kouchehi, P.E. UTILITIES REGIONAL ENGINEER
- Jon Loughry UTILITIES ENGINEER
- Dayton Martin UTILITIES AREA COORDINATOR

\$\$\$\$\$ SYSTEM\$\$\$\$\$  
\$\$\$\$\$ 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	

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 (Type as Shown)  
Designated Utility Line (Type as Shown)

5/14/99  
REV: 2/1/2012

5/14/99

REVISIONS

# UTILITY CONSTRUCTION

## GENERAL NOTES:

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

2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO THE CITY OF GREENSBORO, UNLESS OTHERWISE NOTED.

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

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR 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, FOR PROPOSED WATER MAINS AND SEWER MAINS 4" THRU 12" DIAMETER, PIPE SHALL BE DUCTILE IRON, PC 350. FOR PROPOSED WATER MAINS AND SEWER MAINS 16" THRU 36" DIAMETER, PIPE SHALL BE DUCTILE IRON, PC 250.

2. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509, RATED FOR 200 PSI MINIMUM WORKING PRESSURE.

3. THE INTERIOR OF PROPOSED GRAVITY SEWER LINES SHALL BE LINED WITH CORROSION-RESISTANT CERAMIC EPOXY COATING AS DESCRIBED IN THE UC PROJECT SPECIAL PROVISIONS.

4. FOR PROPOSED SANITARY SEWER MANHOLES ON SEWER LINES 36" AND LARGER, THE MANHOLES SHALL BE MANUFACTURED USING CORROSION-RESISTANT POLYMER CONCRETE, AS DESCRIBED IN THE UC PROJECT SPECIAL PROVISIONS.

5. ON SHEETS UC-5A AND UC-5B, TEMPORARY BYPASS PUMPING OF FLOW IN EXISTING 30" SEWER LINE WILL BE REQUIRED WHEN TYING PROPOSED MH'S INTO THE EXISTING SEWER LINE. SEE DIVISION 15, SECTION 1520-3-A-1 OF THE NCDOT STANDARD SPECIFICATIONS. COST FOR TEMPORARY BYPASS PUMPING SHALL BE INCIDENTAL TO THE CONTRACT.

6. ON SHEET UC-6, A SECTION OF THE PROPOSED 20" WATER LINE, PW300, WILL BE INSTALLED WITHIN AN AREA IDENTIFIED AS HAVING CONTAMINATED SOIL/GROUNDWATER. FROM STA 6+12 TO STA 9+62 ON PW300, THE CONTRACTOR SHALL USE D.I. PIPE WITH EXTERIOR ZINC COATING AND FLUROELASTOMER (FKM) GASKETS. THE GASKETS SHALL BE FURNISHED BY THE D.I. PIPE MANUFACTURER. SEE THE UC PROJECT SPECIAL PROVISIONS FOR FURTHER INFORMATION.

7. ON SHEET UC-6, THE PROPOSED 8" SEWER LINE, PS200, WILL BE INSTALLED WITHIN AN AREA IDENTIFIED AS HAVING CONTAMINATED SOIL/GROUNDWATER. FOR THE ENTIRE LENGTH OF PS200, THE CONTRACTOR SHALL USE D.I. PIPE WITH EXTERIOR ZINC COATING AND INTERIOR CERAMIC EPOXY LINING, AND NITRILE (NBR) GASKETS. THE NITRILE (NBR) GASKETS SHALL BE FURNISHED BY THE D.I. PIPE MANUFACTURER. SEE THE UC PROJECT SPECIAL PROVISIONS FOR FURTHER INFORMATION.

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

9. A BOLLARD SHALL BE PLACED AT EACH END OF INSTALLED ENCASEMENT PIPES, PER THE DETAIL SHOWN ON SHEET UC-3A. THE COST TO FURNISH AND INSTALL THE BOLLARDS SHALL BE INCIDENTAL TO THE CONTRACT.

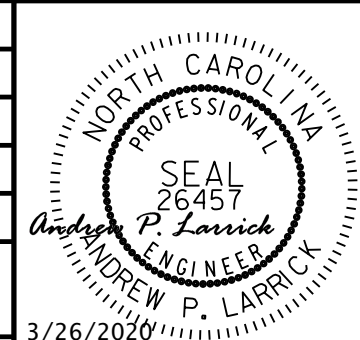
10. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SEWER LATERALS AND/OR CLEANOUTS AS DIRECTED BY THE ENGINEER. THE NECESSARY QUANTITIES HAVE BEEN ADDED TO THE CONTRACT TO FACILITATE THIS PROCEDURE.

11. CONTRACTOR SHALL COORDINATE WITH THE CITY OF GREENSBORO WATER RESOURCES DEPARTMENT CONCERNING THE TIMING AND SCHEDULE OF REQUIRED SHUT-DOWNS OF ANY EXISTING WATER OR SEWER MAINS.

12. SHUT-DOWN OF THE EXISTING 20" WATER MAIN SHOWN ON SHEETS UC-5C, UC-6, AND UC-7 SHALL BE NOT BE ALLOWED BETWEEN APRIL 1 AND OCTOBER 31, DUE TO THIS BEING A CRITICAL WATER TRANSMISSION MAIN FOR THE CITY OF GREENSBORO THAT CANNOT BE OUT OF SERVICE DURING PERIODS OF HIGHER WATER USAGE. THE CONTRACTOR SHALL SCHEDULE THE WORK SO THAT SHUT-DOWNS OF THE 20" WATER MAIN WILL BE PERFORMED BETWEEN NOVEMBER 1 AND MARCH 31, OR AS ALLOWED BY THE CITY OF GREENSBORO.

13. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE TO CUSTOMERS WHEN EXISTING WATER MAINS HAVE TO BE SHUT DOWN FOR MORE THAN 8 HOURS, OR AS DIRECTED BY THE ENGINEER.

14. CONTRACTOR SHALL COORDINATE WITH PROCTOR AND GAMBLE ON ANY SHUT-DOWNS OF THE EXISTING PRIVATE 12" WATER LINE THAT SERVES THE PLANT (PARCEL 12). CONTACT PROCTOR AND GAMBLE AT LEAST TWO (2) WEEKS PRIOR TO ANY PLANNED SHUT-DOWNS OF THEIR WATER LINE. WHEN TYING IN THE PROPOSED WATER LINE RELOCATION TO THE EXISTING WATER LINE, LIMIT THE SHUT-DOWN OF THE WATER LINE TO NO LONGER THAN EIGHT (8) HOURS.

PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-3
DESIGNED BY: APL	
DRAWN BY: RDL	
CHECKED BY: APL	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	3/26/2020
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

## UTILITY CONSTRUCTION

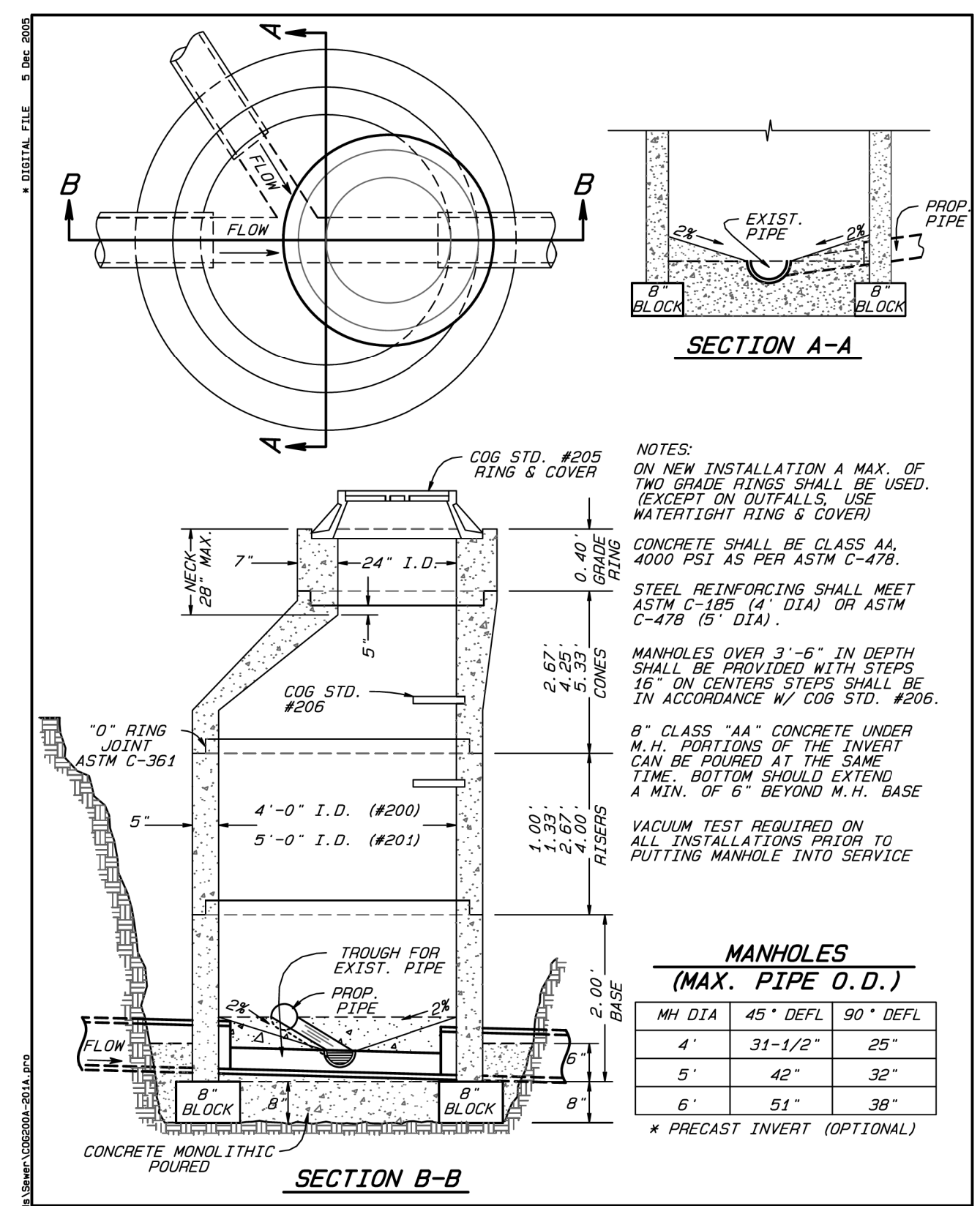
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

## LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1520.01 SEWER CLEAN OUT
- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM

5/14/20

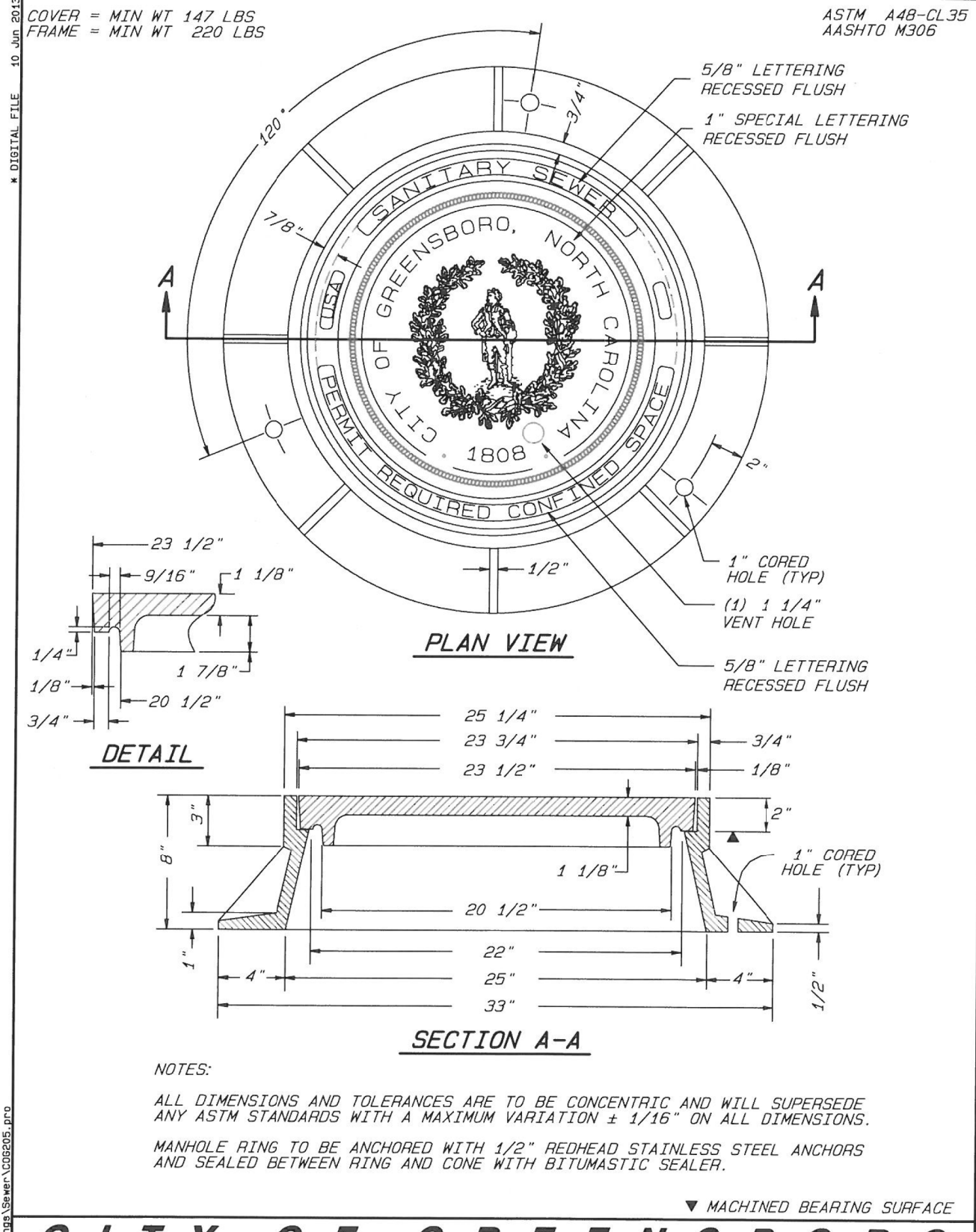
REVISIONS



**CITY OF GREENSBORO**

STANDARD 4' I.D. & 5' I.D. ECCENTRIC PRECAST BOTTOMLESS MANHOLE OVER EXISTING SANITARY SEWER (DOGHOUSE MANHOLE)

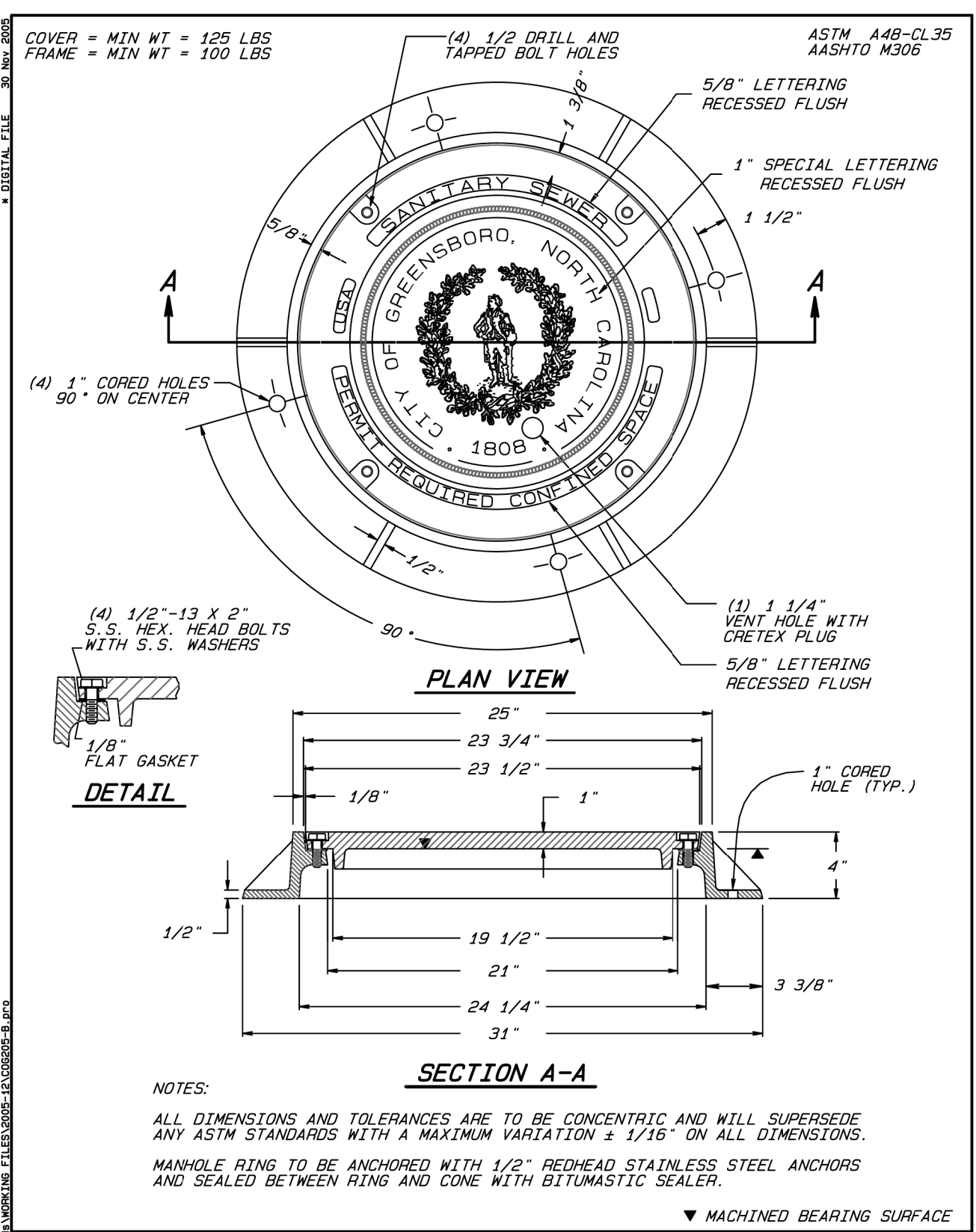
STD. NO.	REV.
200A	DEC-05
201A	



**CITY OF GREENSBORO**

STANDARD MANHOLE RING AND COVER

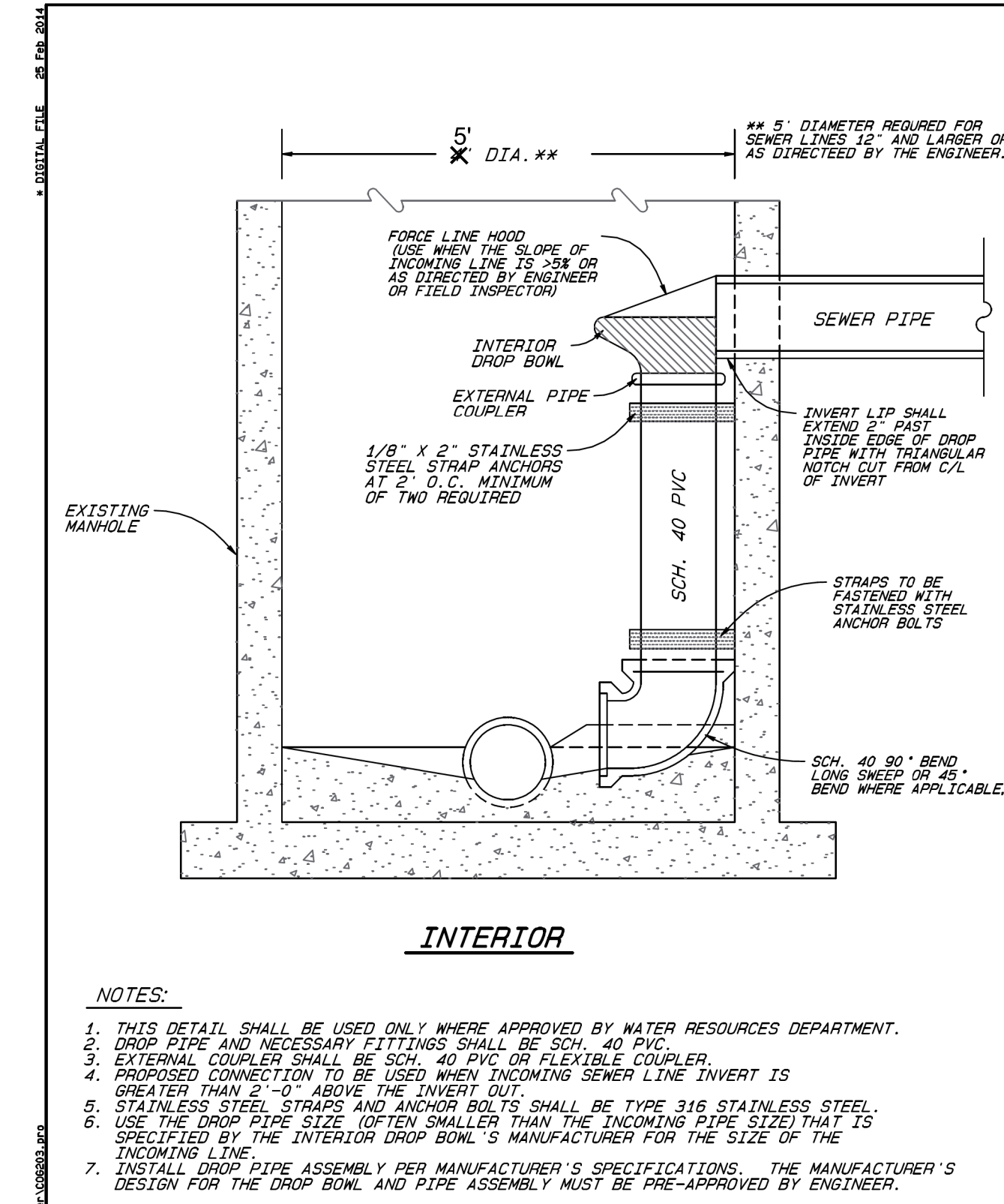
STD. NO.	REV.
205	12-05 / 06-13



**CITY OF GREENSBORO**

STANDARD WATERTIGHT MANHOLE RING AND COVER

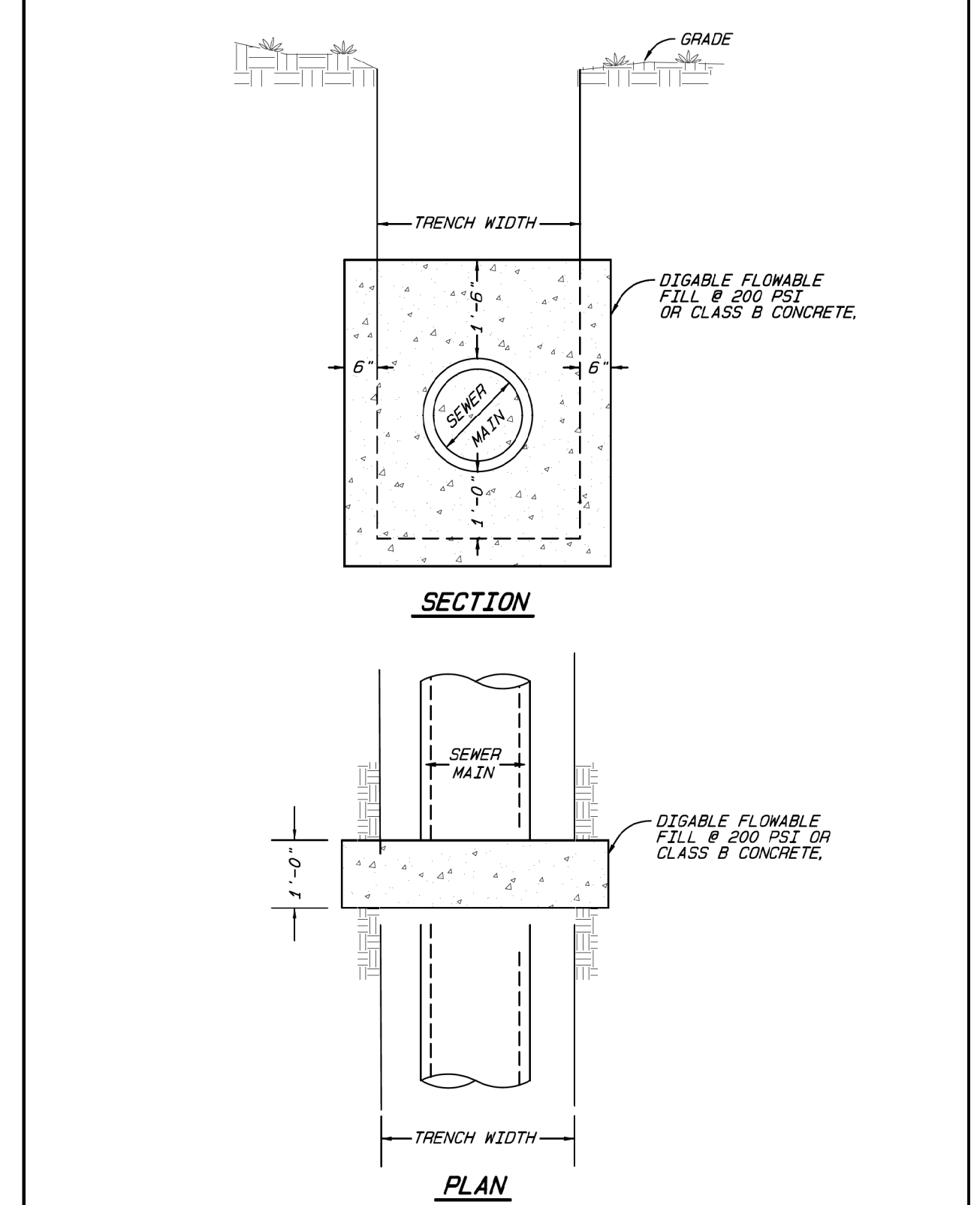
STD. NO.	REV.
205-B	MAR-97 / DEC-05 / MAR-99 / MAR-01



**CITY OF GREENSBORO**

DROP CONNECTION (INTERIOR) FOR EXISTING SANITARY SEWER MANHOLE

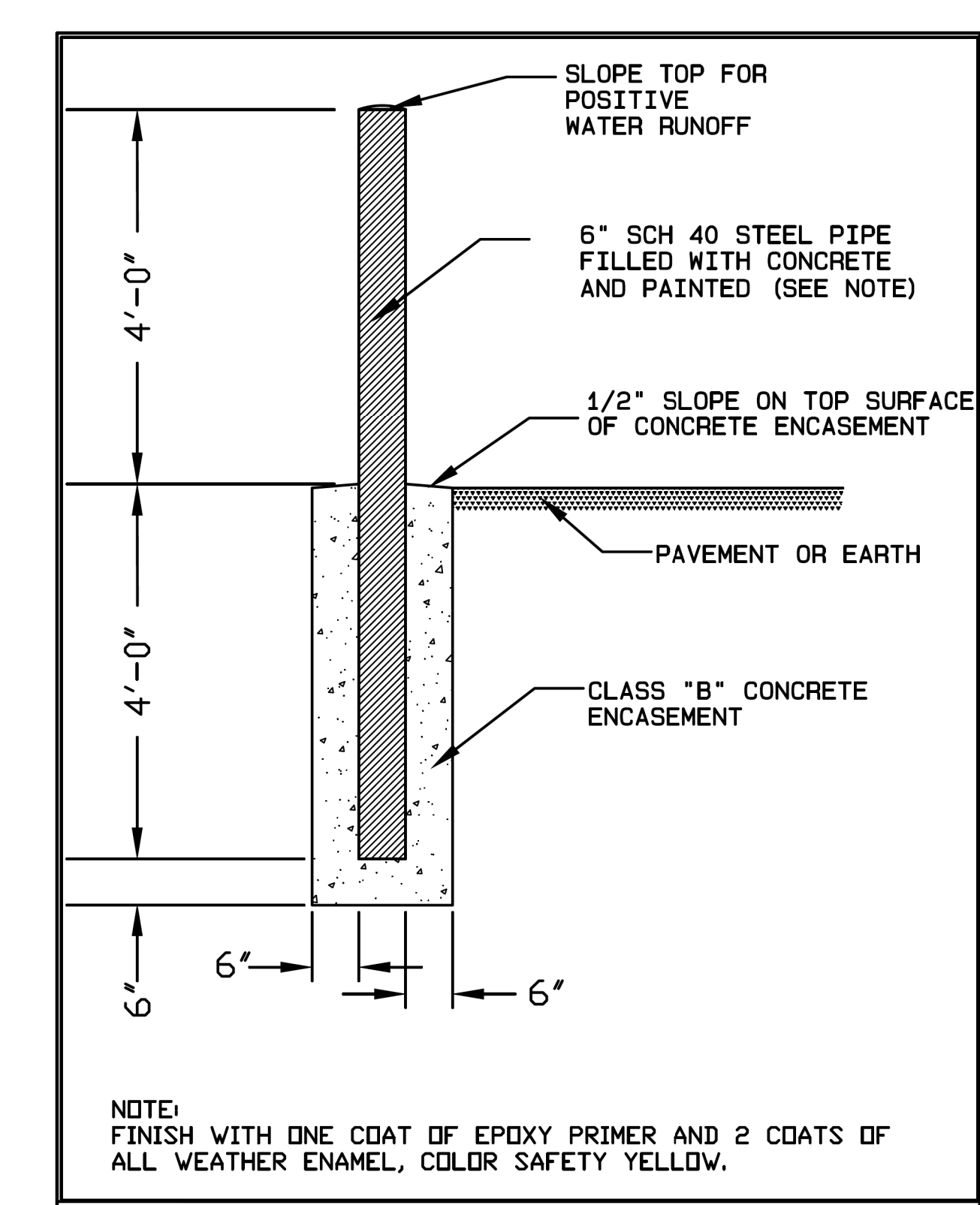
STD. NO.	REV.
203	06-03 / 03-14



**CITY OF GREENSBORO**

ANTI-SEEP PIPE COLLAR FOR SEWER LINES

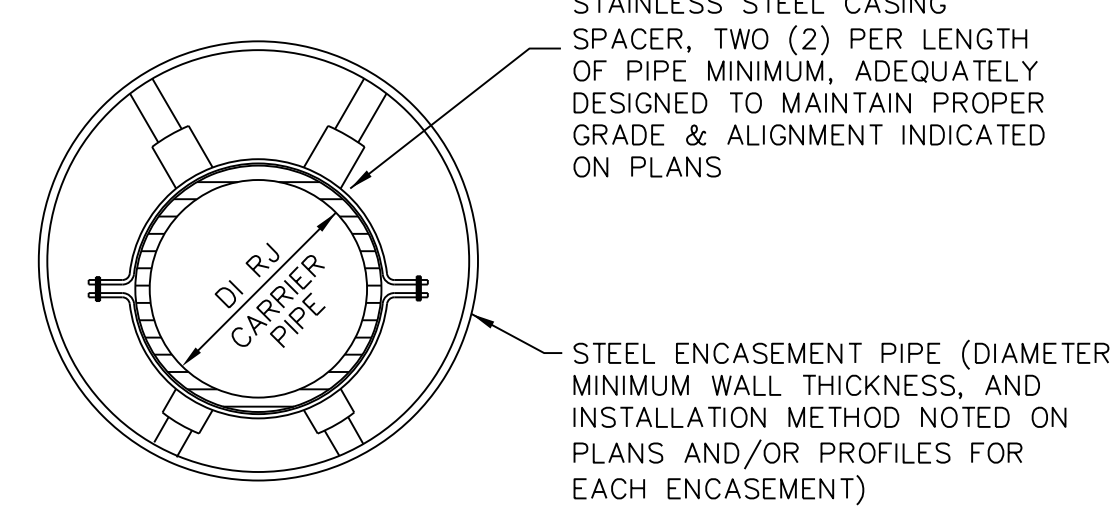
STD. NO.	REV.
219	06-15



**CITY OF GREENSBORO**

BOLLARD (STATIONARY)

STD. NO.	REV.
121	06/15



NOTES:  
 1. ENCLOSE ENDS WITH BRICK MASONRY.  
 2. PROVIDE 1" WEEP HOLE AT LOW END OF ENCASEMENT.  
 3. SEE 2018 NCDOT STANDARD SPECIFICATIONS, DIVISION 15, SECTIONS 1540 AND 1550, FOR OTHER REQUIREMENTS.

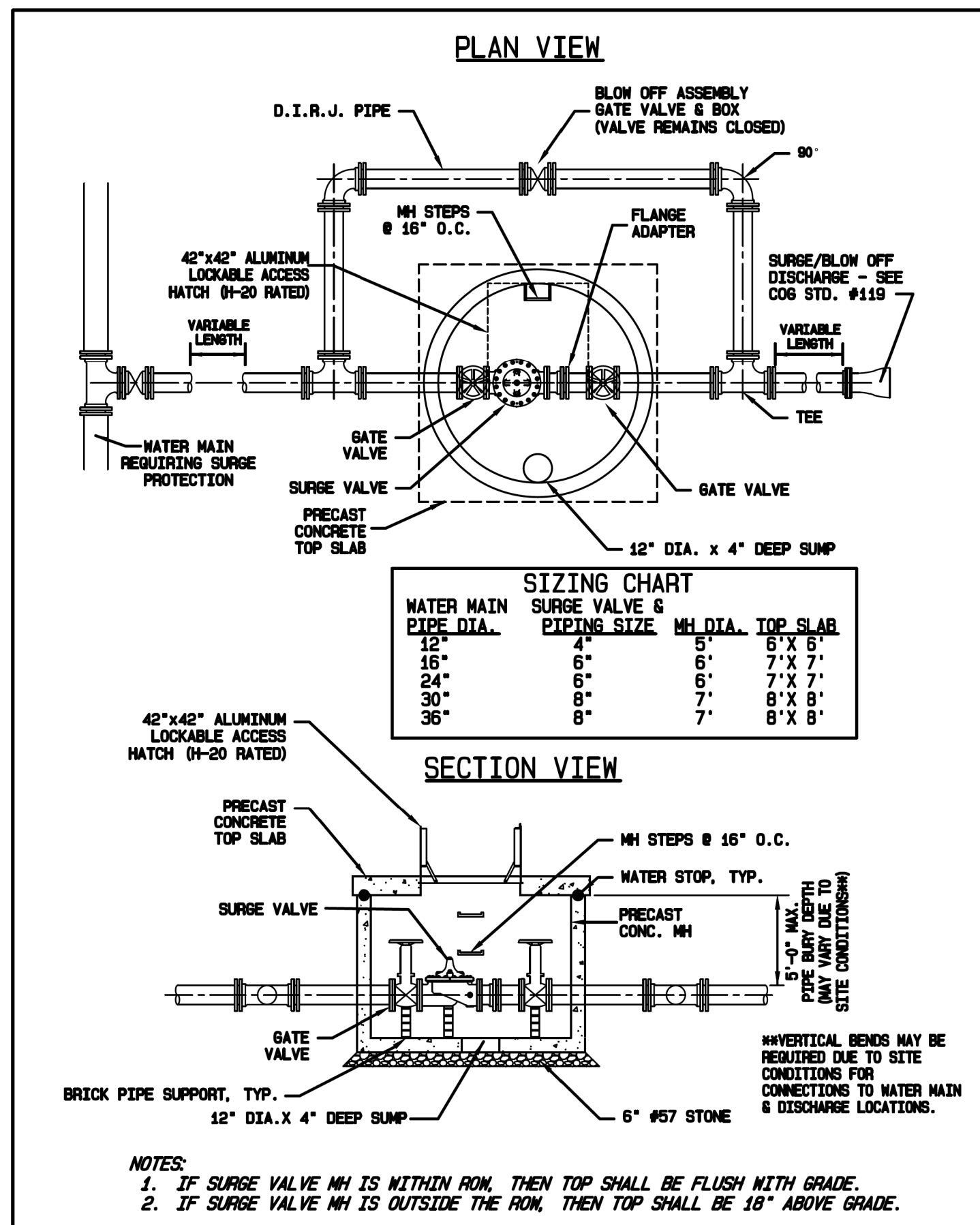
TYPICAL ENCASEMENT PIPE SECTION  
 N.T.S.

PROJECT REFERENCE NO. R-4707	SHEET NO. UC-3A
DESIGNED BY: APL	
DRAWN BY: RDL	
CHECKED BY: APL	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	3/26/2020
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

**UTILITY CONSTRUCTION**

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5/14/99

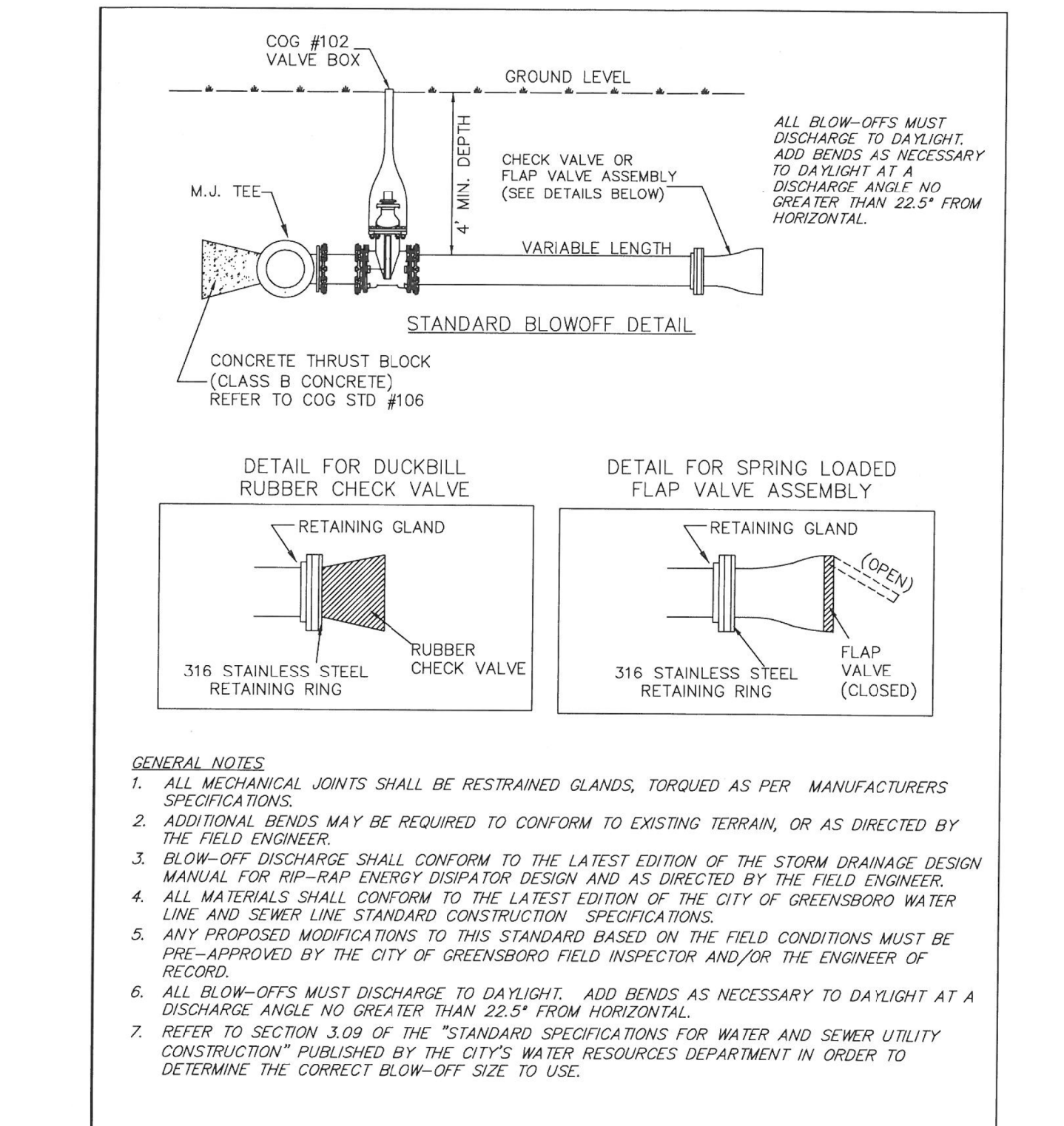


**CITY OF GREENSBORO**

**SURGE VALVE DETAIL**

STD. NO.	REV.
122	09/19 10/19

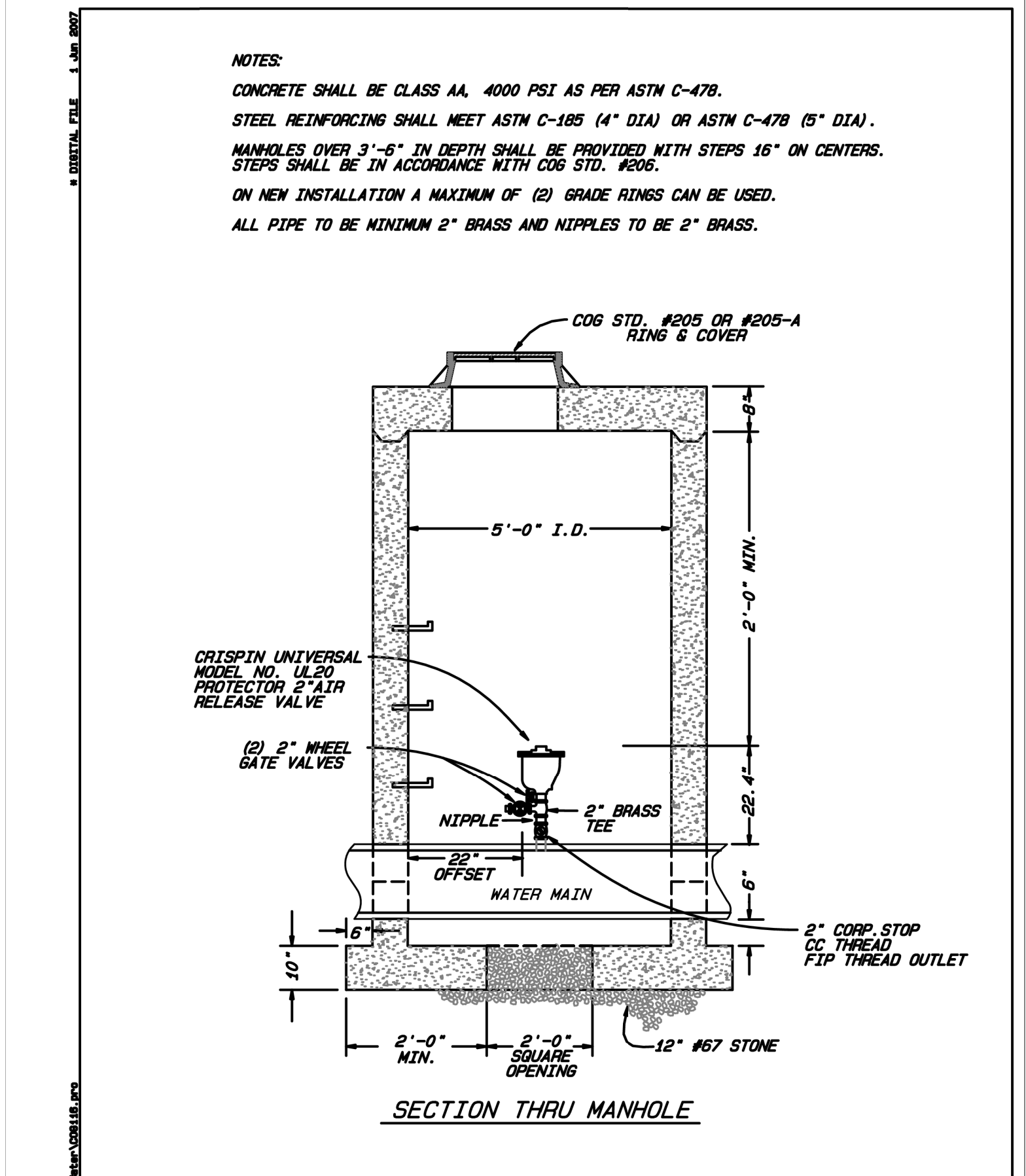
NOTE:  
1. IF SURGE VALVE MH IS WITHIN ROM, THEN TOP SHALL BE FLUSH WITH GRADE.  
2. IF SURGE VALVE MH IS OUTSIDE THE ROM, THEN TOP SHALL BE 18" ABOVE GRADE.



**CITY OF GREENSBORO**

**BLOW-OFF DETAIL (4", 6" & 8")**

STD. NO.	REV.
119	06/13

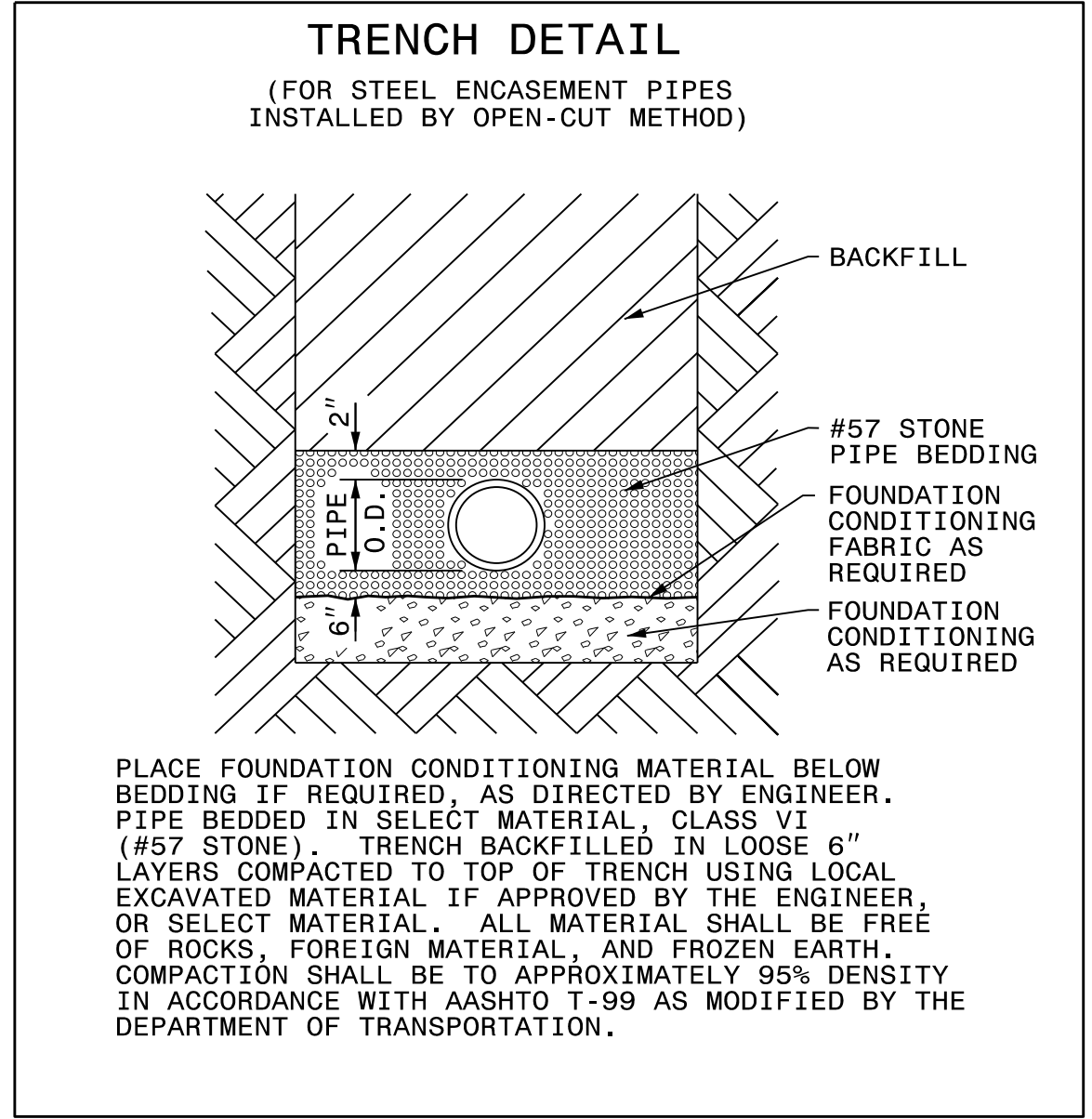
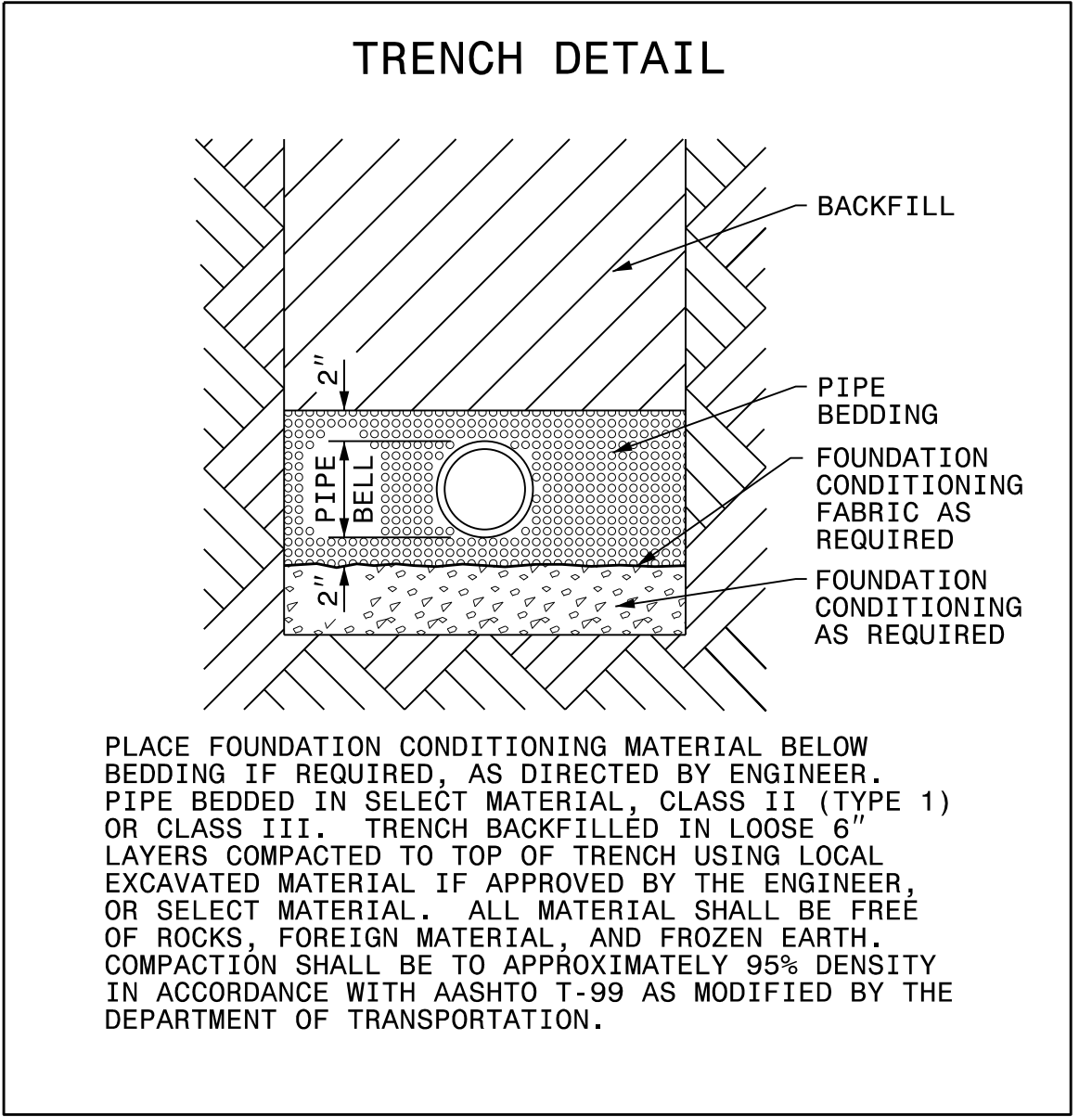


**CITY OF GREENSBORO**

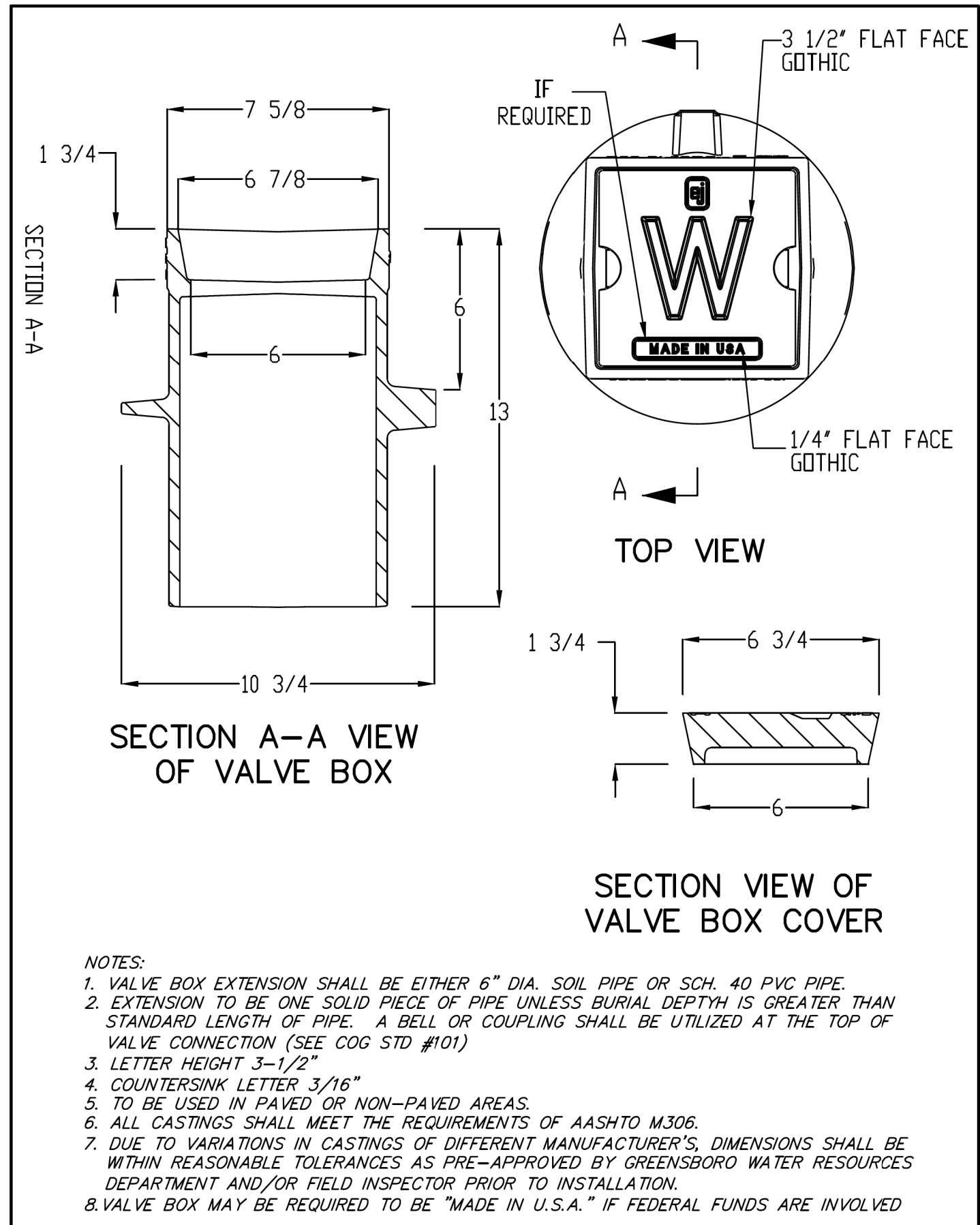
**STANDARD AIR RELIEF VALVE WITH ASSEMBLY AND MANHOLE FOR WATER LINES**

STD. NO.	REV.
116	06-99 09-02 11-01 06-07 08-02

NOTE:  
FOR WATER AND SEWER ARV'S, INSTEAD OF TAPPING THE MAIN, CONTRACTOR SHALL INSTALL A MAIN-LINE TEE TURNED UPRIGHT, WITH A BLIND FLANGE BOLTED TO THE TOP SIDE OF THE TEE. THE BLIND FLANGE SHALL BE TAPPED TO ACCOMODATE THE 2" CORPORATION STOP. COST FOR THE TEE AND TAPPED BLIND FLANGE SHALL BE INCIDENTAL TO THE COST OF THE 2" ARV.  
FOR 2" ARV ON 20" WATER MAIN, USE A 20"x12" TEE.



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		



**CITY OF GREENSBORO**

**WATER VALVE BOX AND EXTENSION**

STD. NO.	REV.
102	03-93 03-12 08-02 12-12 09-10 03-15

PROJECT REFERENCE NO. R-4707 SHEET NO. UC-3B

DESIGNED BY: APL  
DRAWN BY: RDL  
CHECKED BY: APL  
APPROVED BY:  
REVISED:

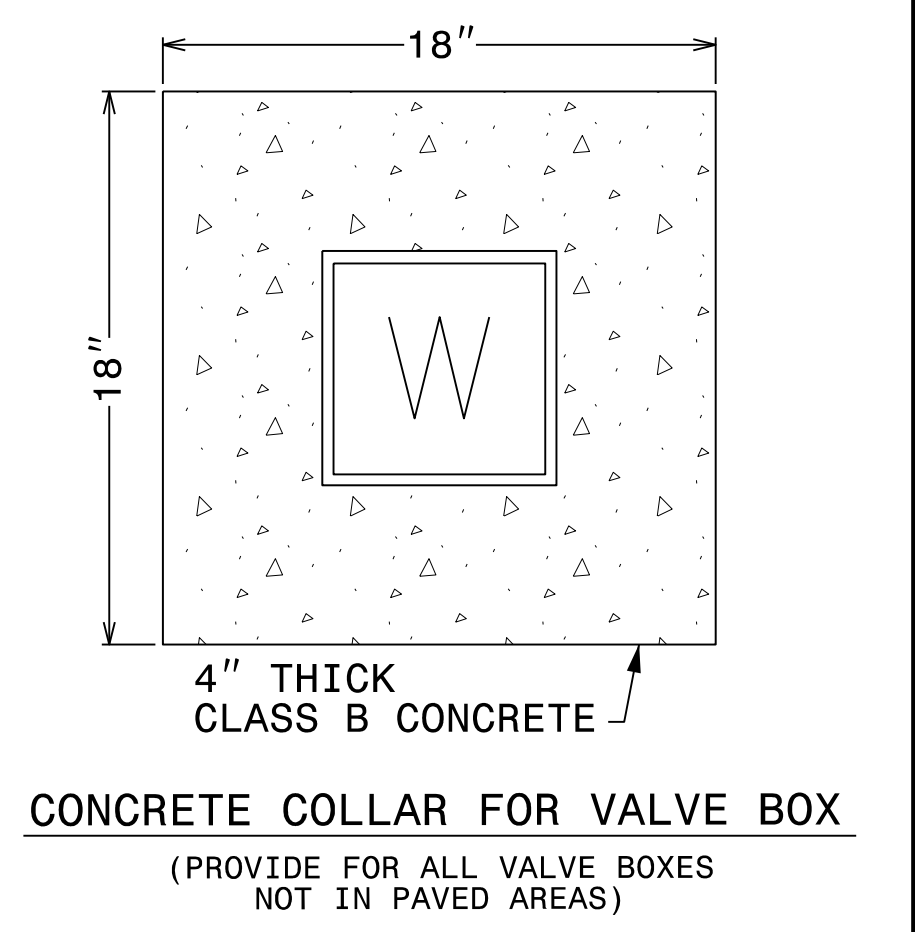
3/26/2028

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**CITY OF GREENSBORO**

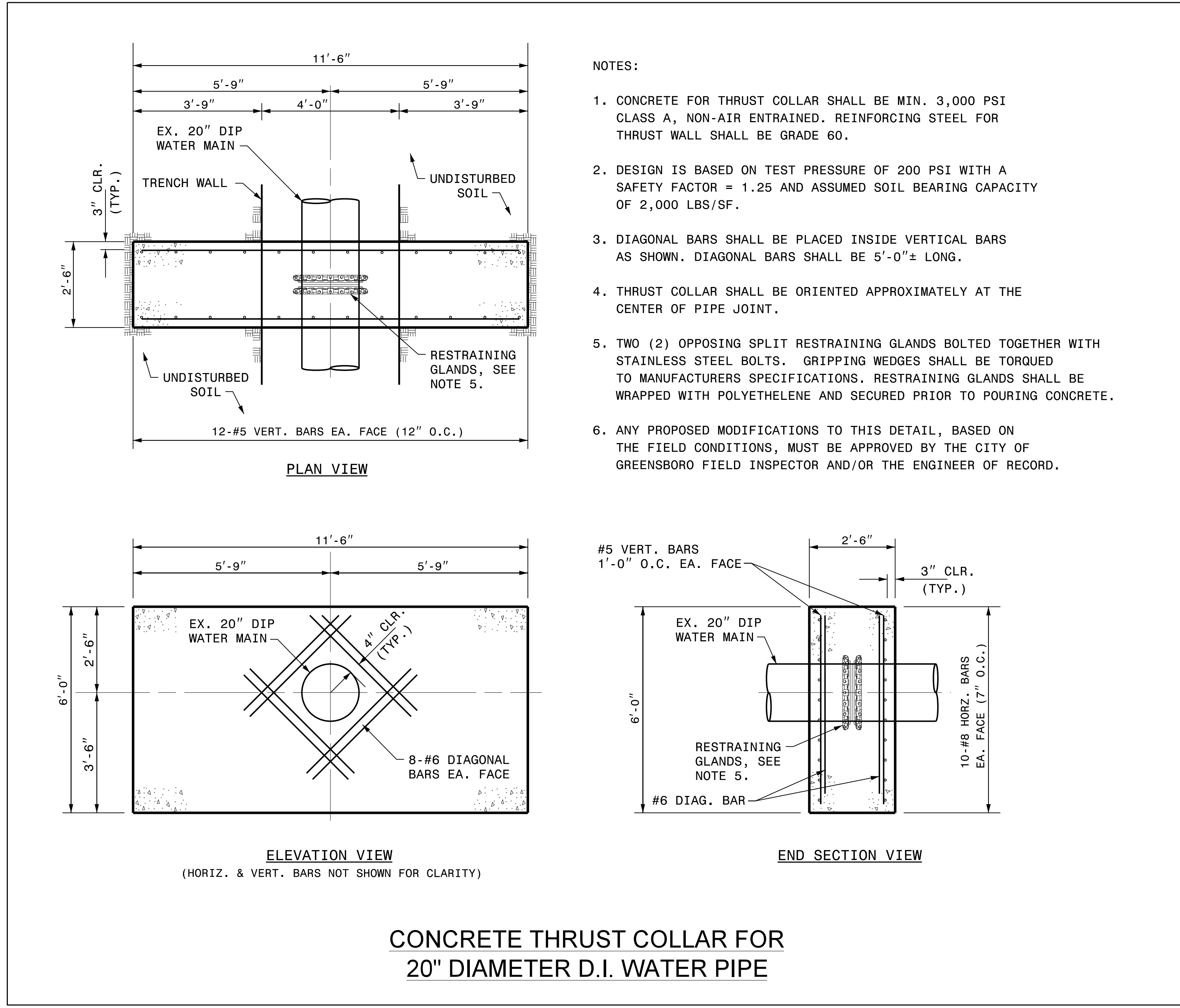
5/14/99

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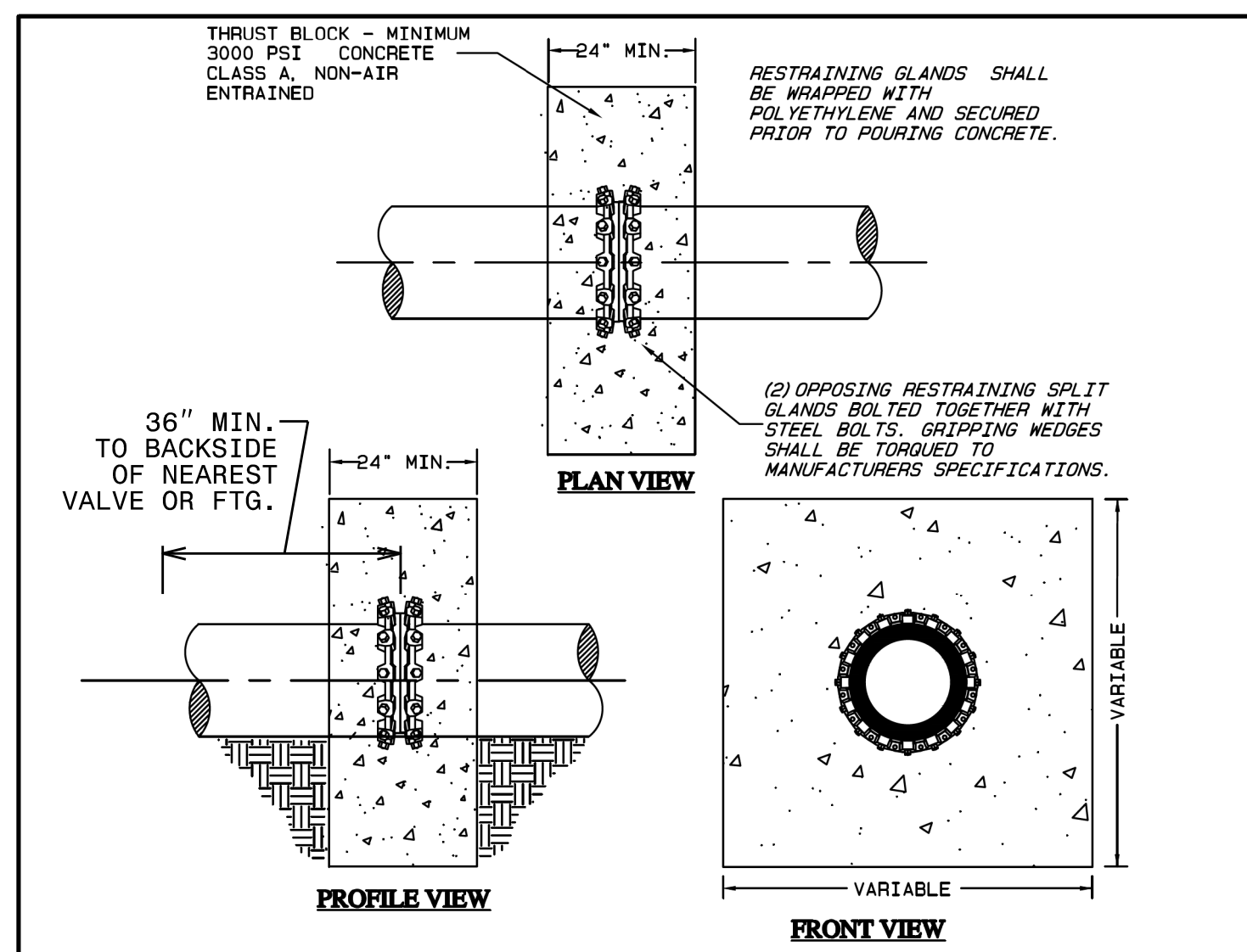
PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-3C
DESIGNED BY: APL	
DRAWN BY: RDL	
CHECKED BY: APL	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	3/26/2020
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

**UTILITY CONSTRUCTION**

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- NOTES:
1. CONCRETE FOR THRUST COLLAR SHALL BE MIN. 3,000 PSI CLASS A, NON-AIR ENTRAINED. REINFORCING STEEL FOR THRUST WALL SHALL BE GRADE 60.
  2. DESIGN IS BASED ON TEST PRESSURE OF 200 PSI WITH A SAFETY FACTOR = 1.25 AND ASSUMED SOIL BEARING CAPACITY OF 2,000 LBS/SF.
  3. DIAGONAL BARS SHALL BE PLACED INSIDE VERTICAL BARS AS SHOWN. DIAGONAL BARS SHALL BE 5'-0"± LONG.
  4. THRUST COLLAR SHALL BE ORIENTED APPROXIMATELY AT THE CENTER OF PIPE JOINT.
  5. TWO (2) OPPOSING SPLIT RESTRAINING GLANDS BOLTED TOGETHER WITH STAINLESS STEEL BOLTS. GRIPPING WEDGES SHALL BE TORQUED TO MANUFACTURERS SPECIFICATIONS. RESTRAINING GLANDS SHALL BE WRAPPED WITH POLYETHELENE AND SECURED PRIOR TO POURING CONCRETE.
  6. ANY PROPOSED MODIFICATIONS TO THIS DETAIL, BASED ON THE FIELD CONDITIONS, MUST BE APPROVED BY THE CITY OF GREENSBORO FIELD INSPECTOR AND/OR THE ENGINEER OF RECORD.



- NOTES:
1. SEE CITY OF GREENSBORO - WATER LINE AND SEWER LINE STANDARD CONSTRUCTION SPECIFICATIONS, SUB-ARTICLE 3.02 & 3.03 FOR (TRENCH AND BACKFILL) AND (TRENCH STABILIZATION) REQUIREMENTS.
  2. THRUST BLOCK SHALL BE ORIENTED APPROXIMATELY CENTER OF PIPE JOINT.
  3. \*OPTIONAL\* A WELDED COLLAR (INSTALLED BY PIPE MANUFACTURER) MAY BE USED IN LIEU OF RESTRAINING GLANDS. ALL OTHER DESIGN REQUIREMENTS SHALL APPLY AS SHOWN.
  4. FOR PIPES LARGER THAN 16" DIAMETER, THE DEADMAN THRUST RESTRAINT WITH BLOCKING MUST BE DESIGNED AND SEALED BY A N.C. PROFESSIONAL ENGINEER.
  5. ANY PROPOSED MODIFICATIONS TO THIS STANDARD BASED ON THE FIELD CONDITIONS MUST BE PRE-APPROVED BY THE CITY OF GREENSBORO FIELD INSPECTOR AND/OR THE ENGINEER OF RECORD.
  6. QUANTITIES SHOWN BELOW ARE TO THE NEAREST QUARTER YARD AND ARE BASED ON MINIMUM MASS WEIGHT REQUIREMENTS OF THE TEST PRESSURES SHOWN.

MINIMUM CUBIC YARDS OF CONCRETE REQUIRED			
PIPE DIAMETER	100 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

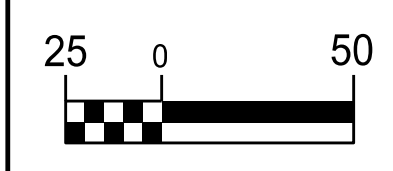
<b>CITY OF GREENSBORO</b>		
DEADMAN THRUST RESTRAINT WITH MASS WEIGHT BLOCKING	STD. NO.	REV.
	118	06-13 06-15

5/14/20

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WATER OR SEWER CONFLICTS ARE ANTICIPATED ON THIS SHEET. SEE NOTE BELOW AT RIGHT SIDE OF SHEET REGARDING PROPOSED STORM DRAIN CROSSING EXISTING WATER LINE.

-RPB- CURVE DATA

PI Sta  2+21.22	PI Sta  6+63.54
$\Delta = 3^{\circ} 06' 34.5''$ (LT)	$\Delta = 3^{\circ} 06' 34.5''$ (RT)
$D = 0^{\circ} 42' 10.9''$	$D = 0^{\circ} 42' 10.9''$
$L = 442.32'$	$L = 442.32'$
$T = 221.22'$	$T = 221.22'$
$R = 8,150.00'$	$R = 8,150.00'$
$e = NC$	$e = NC$



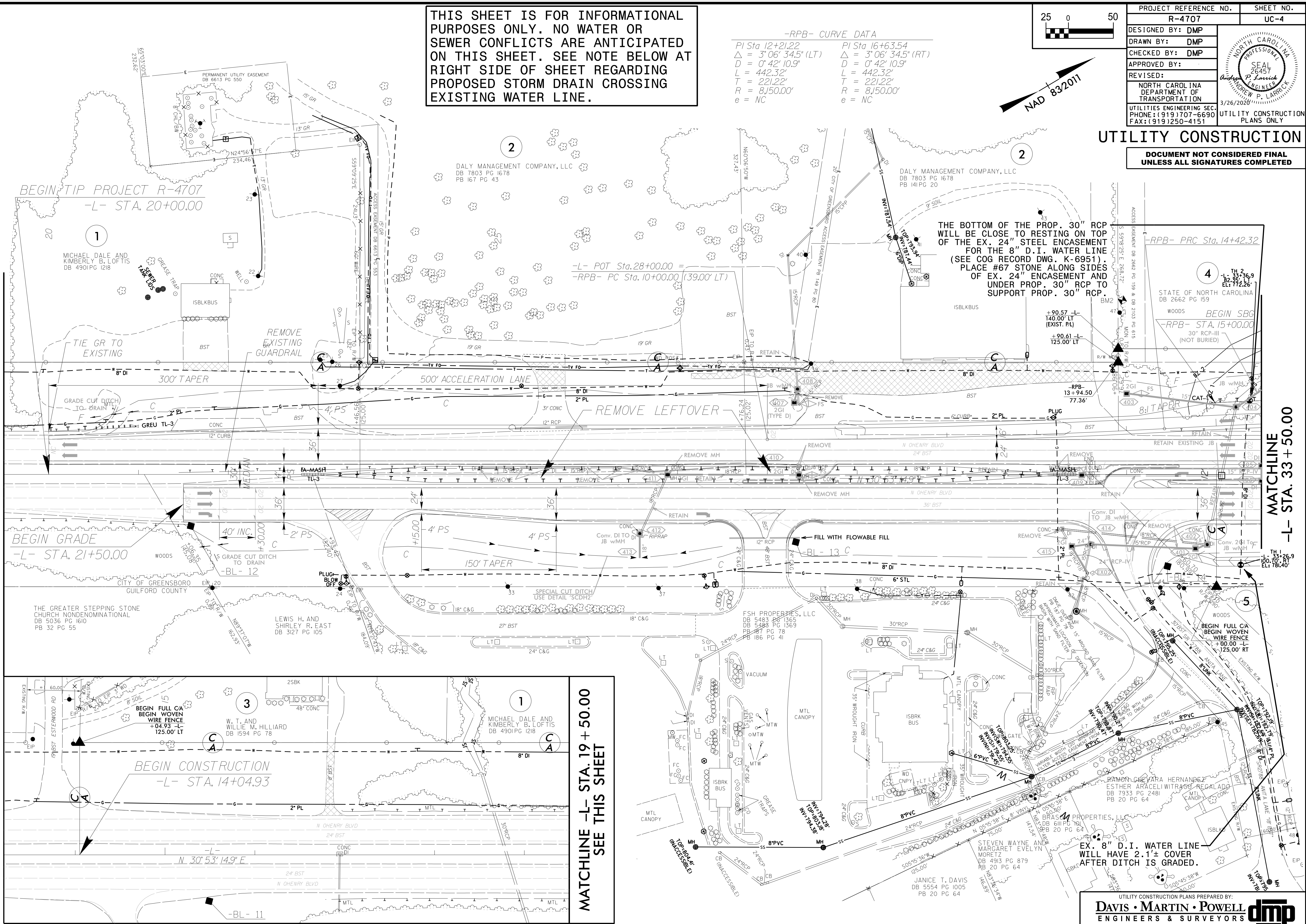
PROJECT REFERENCE NO. R-4707	SHEET NO. UC-4
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY 3/26/2020

**UTILITY CONSTRUCTION**

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

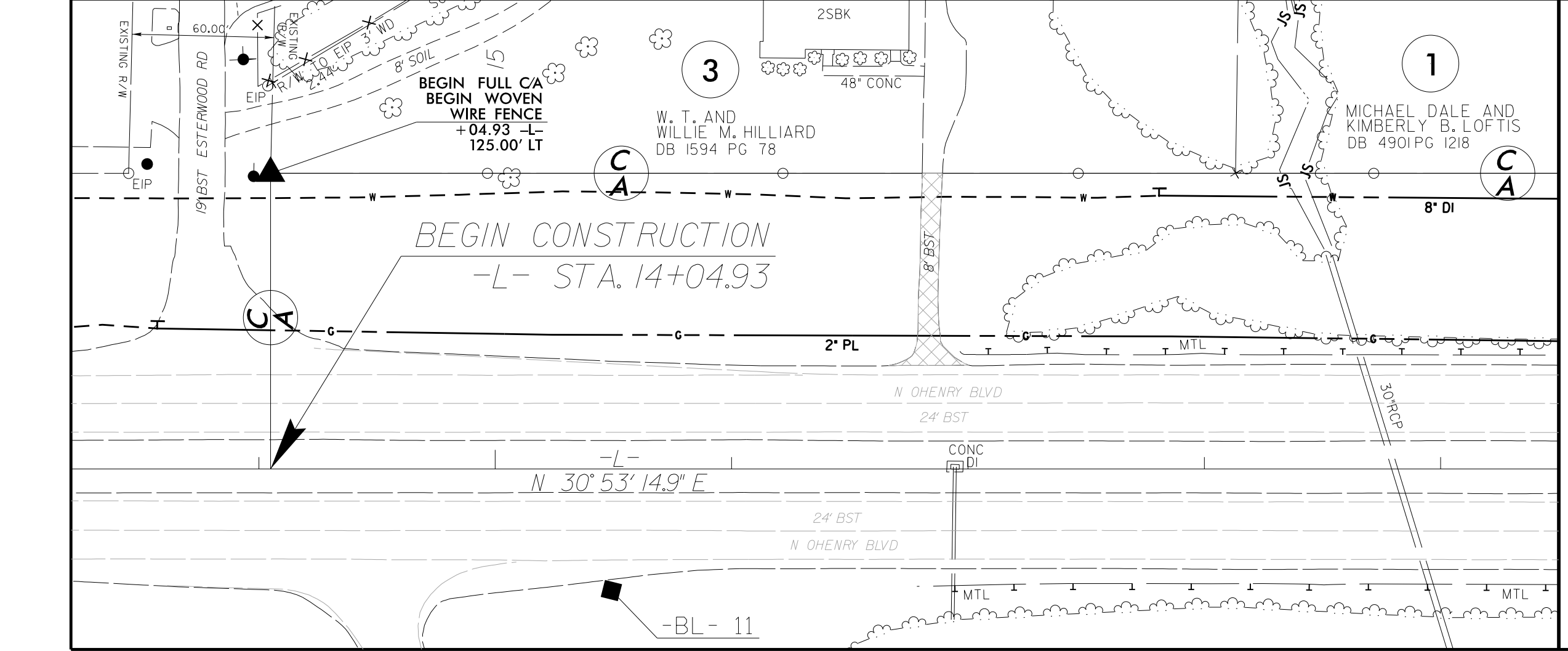
MATCHLINE -L- STA. 19 + 50.00 SEE INSET THIS SHEET

MATCHLINE -L- STA. 33 + 50.00



THE BOTTOM OF THE PROP. 30" RCP WILL BE CLOSE TO RESTING ON TOP OF THE EX. 24" STEEL ENCASEMENT FOR THE 8" D.I. WATER LINE (SEE COG RECORD DWG. K-6951). PLACE #67 STONE ALONG SIDES OF EX. 24" ENCASEMENT AND UNDER PROP. 30" RCP TO SUPPORT PROP. 30" RCP.

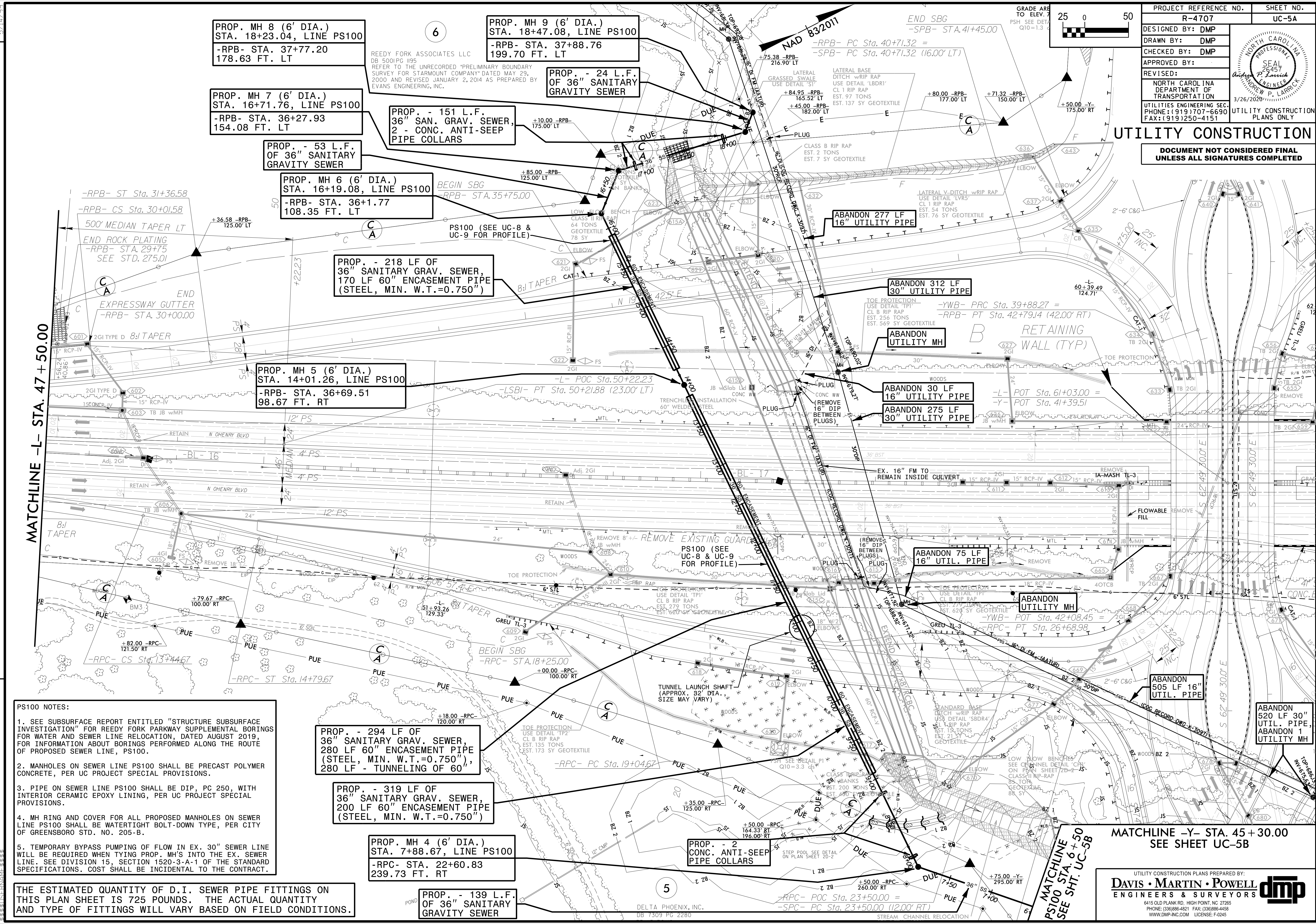
EX. 8" D.I. WATER LINE WILL HAVE 2.1'± COVER AFTER DITCH IS GRADED.



MATCHLINE -L- STA. 19 + 50.00 SEE THIS SHEET

PROJECT REFERENCE NO.	R-4707	SHEET NO.	UC-5A
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:	DMP		
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITY CONSTRUCTION PLANS ONLY 3/26/2020 PHONE: (919) 707-6690 FAX: (919) 250-4151	

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- PS100 NOTES:**
- SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019 FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED SEWER LINE, PS100.
  - MANHOLES ON SEWER LINE PS100 SHALL BE PRECAST POLYMER CONCRETE, PER UC PROJECT SPECIAL PROVISIONS.
  - PIPE ON SEWER LINE PS100 SHALL BE DIP, PC 250, WITH INTERIOR CERAMIC EPOXY LINING, PER UC PROJECT SPECIAL PROVISIONS.
  - MH RING AND COVER FOR ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER CITY OF GREENSBORO STD. NO. 205-B.
  - TEMPORARY BYPASS PUMPING OF FLOW IN EX. 30" SEWER LINE WILL BE REQUIRED WHEN TYING PROP. MH'S INTO THE EX. SEWER LINE. SEE DIVISION 15, SECTION 1520-3-A-1 OF THE STANDARD SPECIFICATIONS. COST SHALL BE INCIDENTAL TO THE CONTRACT.

THE ESTIMATED QUANTITY OF D.I. SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 725 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROP. MH 8 (6' DIA.)  
 STA. 18+23.04, LINE PS100  
 -RPB- STA. 37+77.20  
 178.63 FT. LT

PROP. MH 9 (6' DIA.)  
 STA. 18+47.08, LINE PS100  
 -RPB- STA. 37+88.76  
 199.70 FT. LT

PROP. MH 7 (6' DIA.)  
 STA. 16+71.76, LINE PS100  
 -RPB- STA. 36+27.93  
 154.08 FT. LT

PROP. - 24 L.F. OF 36" SANITARY GRAVITY SEWER

PROP. - 151 L.F. OF 36" SAN. GRAV. SEWER, 2 - CONC. ANTI-SEEP PIPE COLLARS

PROP. - 53 L.F. OF 36" SANITARY GRAVITY SEWER

PROP. MH 6 (6' DIA.)  
 STA. 16+19.08, LINE PS100  
 -RPB- STA. 36+1.77  
 108.35 FT. LT

PROP. - 218 LF OF 36" SANITARY GRAV. SEWER, 170 LF 60" ENCASEMENT PIPE (STEEL, MIN. W.T.=0.750")

PROP. MH 5 (6' DIA.)  
 STA. 14+01.26, LINE PS100  
 -RPB- STA. 36+69.51  
 98.67 FT. RT

PROP. - 294 LF OF 36" SANITARY GRAV. SEWER, 280 LF 60" ENCASEMENT PIPE (STEEL, MIN. W.T.=0.750"), 280 LF - TUNNELING OF 60"

PROP. - 319 LF OF 36" SANITARY GRAV. SEWER, 200 LF 60" ENCASEMENT PIPE (STEEL, MIN. W.T.=0.750")

PROP. MH 4 (6' DIA.)  
 STA. 7+88.67, LINE PS100  
 -RPC- STA. 22+60.83  
 239.73 FT. RT

PROP. - 139 L.F. OF 36" SANITARY GRAVITY SEWER

PROP. - 2 CONC. ANTI-SEEP PIPE COLLARS

DELTA PHOENIX, INC.  
 DB 7309 PG 2280

MATCHLINE -Y- STA. 45+30.00  
 SEE SHEET UC-5B

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-2045

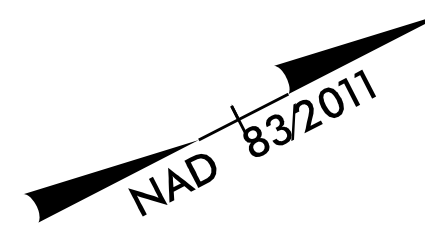
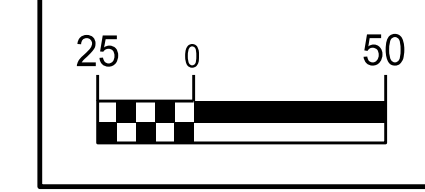
REVISIONS

MATCHLINE -L- STA. 47+50.00

MATCHLINE PS100 STA. 6+50 SEE SHT. UC-5B



5/14/19

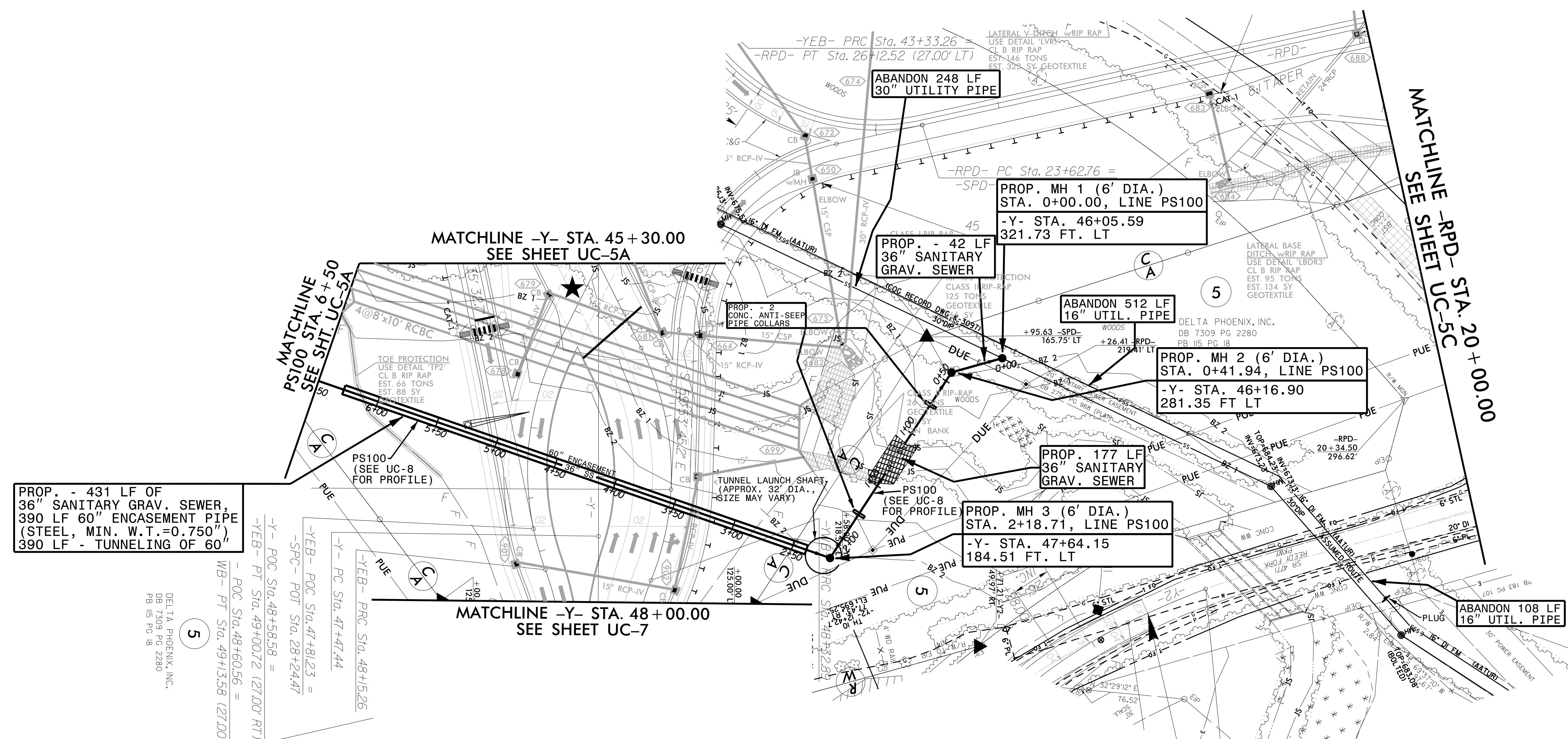


PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-5B
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	3/26/2020
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

# UTILITY CONSTRUCTION

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PROP. - 431 LF OF 36" SANITARY GRAV. SEWER, 390 LF 60" ENCASEMENT PIPE (STEEL, MIN. W.T.=0.750") 390 LF - TUNNELING OF 60"

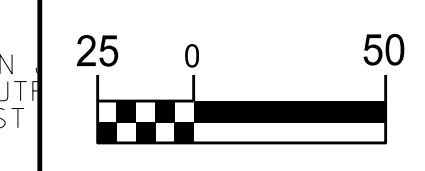
DELTA PHOENIX, INC.  
DB 7309 PG 2280  
PB 115 PG 18

5

YEB- POC Sta. 47+81.23 =  
SPC- POT Sta. 28+24.47 =  
YEB- PT Sta. 49+00.72 (27.00' RT) =  
WB- PT Sta. 49+13.58 (27.00' RT) =  
YEB- POC Sta. 47+47.44 =  
YEB- POC Sta. 48+15.26 =

- PS100 NOTES:**
- SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED SEWER LINE, PS100.
  - MANHOLES ON SEWER LINE PS100 SHALL BE PRECAST POLYMER CONCRETE, PER UC PROJECT SPECIAL PROVISIONS.
  - PIPE ON SEWER LINE PS100 SHALL BE DIP, PC 250, WITH INTERIOR CERAMIC EPOXY LINING, PER UC PROJECT SPECIAL PROVISIONS.
  - MH RING AND COVER FOR ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER CITY OF GREENSBORO STD. NO. 205-B.
  - TEMPORARY BYPASS PUMPING OF FLOW IN EX. 30" SEWER LINE WILL BE REQUIRED WHEN TYING PROP. MH'S INTO THE EX. SEWER LINE. SEE DIVISION 15, SECTION 1520-3-A-1 OF THE STANDARD SPECIFICATIONS. COST SHALL BE INCIDENTAL TO THE CONTRACT.

THE ESTIMATED QUANTITY OF D.I. SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 145 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

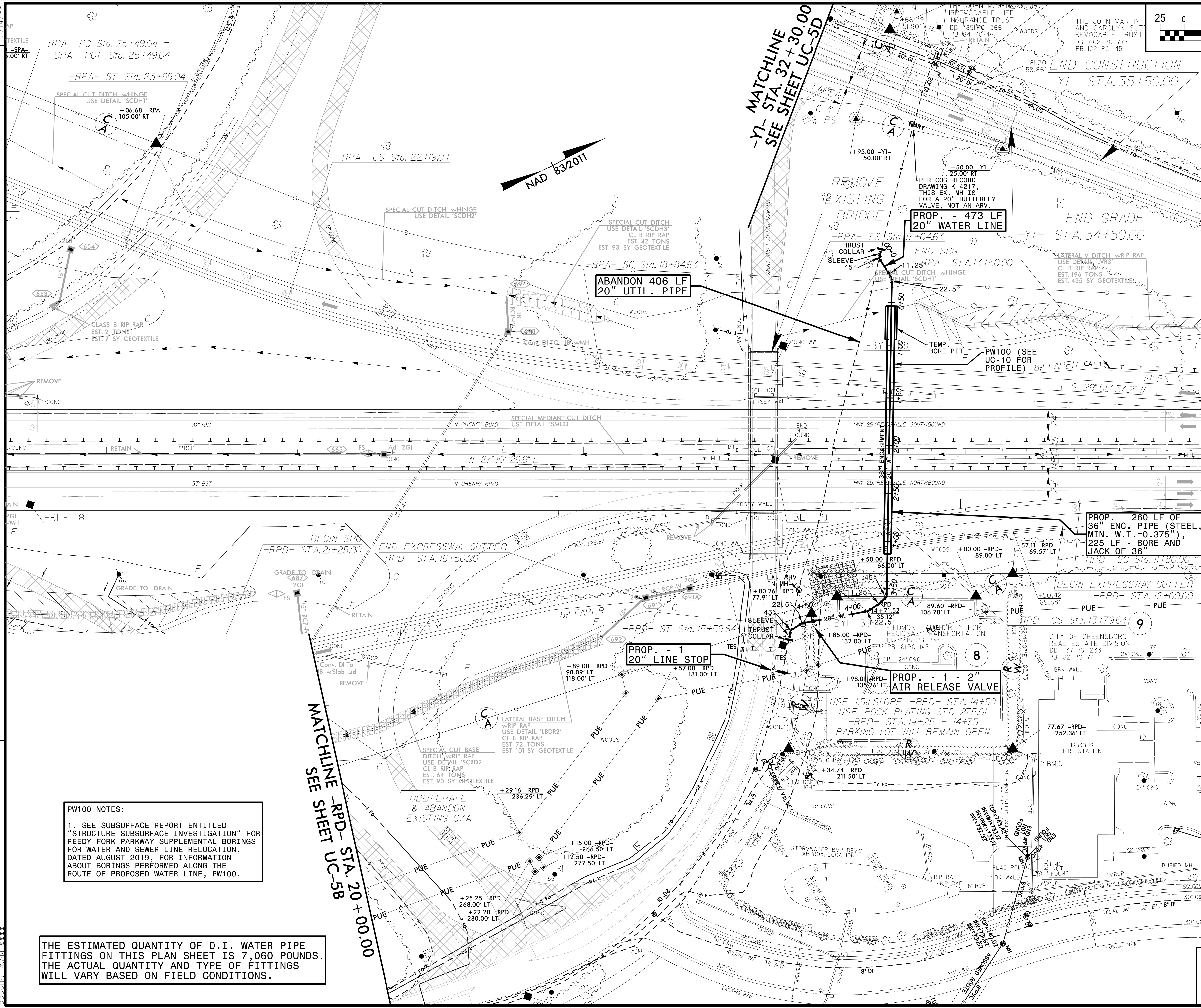


PROJECT REFERENCE NO.	R-4707	SHEET NO.	UC-5C
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:	DMP		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		3/26/2020	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION

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**PW100 NOTES:**

- SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED WATER LINE, PW100.

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 7,060 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

MATCHLINE -L- STA. 76 + 50.00

MATCHLINE SEE SHEET UC-5B

MATCHLINE -Y1- STA. 32 + 30.00 SEE SHEET UC-5D

END CONSTRUCTION -Y1- STA. 35 + 50.00

END GRADE

END SBG

END EXPRESSWAY GUTTER

BEGIN EXPRESSWAY GUTTER

BEGIN SBG

BEGIN RPD

BEGIN SCDH1

BEGIN SCDH2

BEGIN SCDH3

BEGIN SCDH4

BEGIN SCDH5

BEGIN SCDH6

BEGIN SCDH7

BEGIN SCDH8

BEGIN SCDH9

BEGIN SCDH10

BEGIN SCDH11

BEGIN SCDH12

BEGIN SCDH13

BEGIN SCDH14

BEGIN SCDH15

BEGIN SCDH16

BEGIN SCDH17

BEGIN SCDH18

BEGIN SCDH19

BEGIN SCDH20

BEGIN SCDH21

BEGIN SCDH22

BEGIN SCDH23

BEGIN SCDH24

BEGIN SCDH25

BEGIN SCDH26

BEGIN SCDH27

BEGIN SCDH28

BEGIN SCDH29

BEGIN SCDH30



5/14/2019

BEGIN CONSTRUCTION  
-DR2B- STA.10+65.00  
NOTE: SAWCUT EXIST.  
PAVEMENT AND TIE  
PROPOSED PAVEMENT  
TO EXIST. ELEVATION

SEE SHEET UC-3 AND UC PROJECT  
SPECIAL PROVISIONS FOR NOTES  
REGARDING SHUT-DOWN AND TIE-IN  
OF 12" PRIVATE WATER LINE FOR  
PROCTOR & GAMBLE.

THE ESTIMATED QUANTITY OF D.I.  
WATER PIPE FITTINGS ON THIS PLAN  
SHEET IS 16,400 POUNDS. THE ACTUAL  
QUANTITY AND TYPE OF FITTINGS WILL  
VARY BASED ON FIELD CONDITIONS.

PROP. - 1,110 LF  
20" WATER LINE

SECURE FACILITY  
DO NOT DISTURB  
BEYOND PROPOSED  
R/W & EASEMENTS

BEGIN CONSTRUCTION  
-Y- STA.21+00.00

TIE FENCE  
TO EXISTING

PROP. - 1 -  
20" LINE STOP  
(ONLY INSTALL IF  
EX. 20" GV NEARBY  
WILL NOT CLOSE  
COMPLETELY)

PROP. - 1 - FIRE HYD.,  
20 LF FIRE HYD. LEG,  
REMOVE FIRE HYDRANT  
NOTE: EX. FIRE HYDRANT  
TO BE REMOVED DUE TO  
ITS AGE (40 YEARS OLD)

MATCHLINE  
-Y4- STA. 11+25.00

ABANDON 56 LF  
12" UTIL. PIPE

PROP. - 1 - FIRE HYD.,  
1 - 6" VALVE, 21 LF OF  
FIRE HYD. LEG

PROP. - 1 - 12" VALVE,  
2 - 20" VALVES,  
50 LF OF 12"  
WATER LINE

ABANDON 338 LF  
12" UTIL. PIPE

PROP. - 149 LF  
12" WATER LINE

ABANDON 334 LF  
30" UTIL. PIPE

PROP. - 2  
20" VALVES,  
36 LF 20"  
WATER LINE

PROP. MH 12

ABANDON 32 LF  
20" UTIL. PIPE,  
ABANDON UTIL. MH,  
REMOVE FIRE HYD.

PROP. - 21 LF  
OF 8" SAN.  
GRAVITY SEWER

PROP. - 134 L.F. OF  
8" SANITARY GRAV. SEWER,  
120 L.F. OF 18" ENC. PIPE  
(STEEL, MIN. W.T. = 0.250")

PROP. - 88 L.F. OF  
8" SANITARY GRAV. SEWER,  
60 L.F. OF 18" ENC. PIPE  
(STEEL, MIN. W.T. = 0.250")

PROP. MH #	SEWER LINE PS200 STATION	DIA.	ROADWAY STATION AND OFFSET
10	0+00.00	5'	-Y- STA. 29+97.29, 95.65 FT. RT.
11	0+21.22	4'	-Y- STA. 29+79.39, 84.80 FT. RT.
12	2+43.22	4'	-Y- STA. 29+22.80, 129.94 FT. LT.
13	4+48.70	5'	-Y1- STA. 16+69.91, 89.41 FT. LT.
14	4+69.92	5'	-Y1- STA. 16+86.81, 99.46 FT. LT.

SEE SHEET UC-3 AND UC PROJECT SPECIAL PROVISIONS  
FOR NOTES REGARDING USE OF SPECIAL GASKETS AND  
DIP WITH EXTERIOR ZINC COATING FOR PW300 & PS200  
WITHIN THE AREA OF CONTAMINATED SOIL/GROUNDWATER.

PROP. - 205 L.F. OF  
8" SANITARY GRAV. SEWER,  
160 L.F. OF 18" ENC. PIPE  
(STEEL, MIN. W.T. = 0.250")

PROP. - 14 LF  
20" WATER LINE,  
55 LF 30"  
WATER LINE  
(PW500, SEE UC-11  
FOR PROFILE)

PROP. - 146 LF  
8" WATER LINE,  
3 - 8" VALVES,  
1 - 8" PRESSURE  
RELIEF VALVE IN  
7' DIA. MH  
(SEE UC-3B  
FOR DETAIL)

PROP. - 1 - FIRE HYD.,  
1 - 6" VALVE, 27 L.F.  
OF FIRE HYDRANT LEG,  
REMOVE FIRE HYDRANT  
NOTE: EX. FIRE HYDRANT  
TO BE REMOVED DUE TO  
ITS AGE (40 YEARS OLD)

PROP. MH 14

PROP. MH 13

PROP. MH 11

PROP. MH 10

ABANDON 154 LF  
10" UTIL. PIPE

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-2045

PROJECT REFERENCE NO. R-4707 SHEET NO. UC-6

DESIGNED BY: DMP  
DRAWN BY: DMP  
CHECKED BY: DMP  
APPROVED BY:  
REVISED:

NORTH CAROLINA  
DEPARTMENT OF  
TRANSPORTATION  
3/26/2020  
UTILITY CONSTRUCTION  
PLANS ONLY

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UNLESS ALL SIGNATURES COMPLETED

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

SEAL  
26457  
Andrew P. Larrick  
Professional Engineer  
North Carolina  
Matthew P. Larrick

### UTILITY CONSTRUCTION

DO NOT DISTURB  
WATER VALVE VAULT

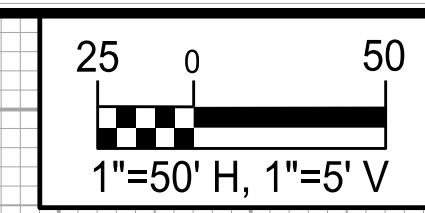
SEE -Y1-  
SHEET UC-5  
D

MATCHLINE -Y- STA. 34+00.00  
SEE SHEET UC-5D

REVISIONS

5/14/2019

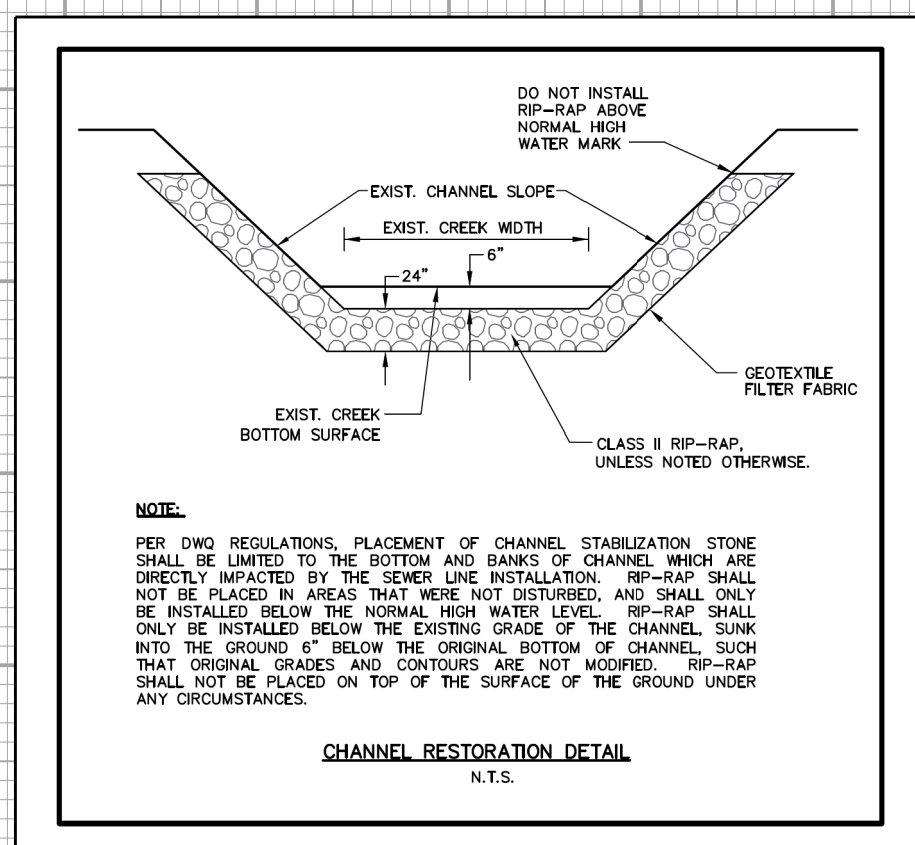




PROJECT REFERENCE NO. R-4707	SHEET NO. UC-8
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 3/26/2020 UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
UTILITY CONSTRUCTION	

**PS100 NOTES:**

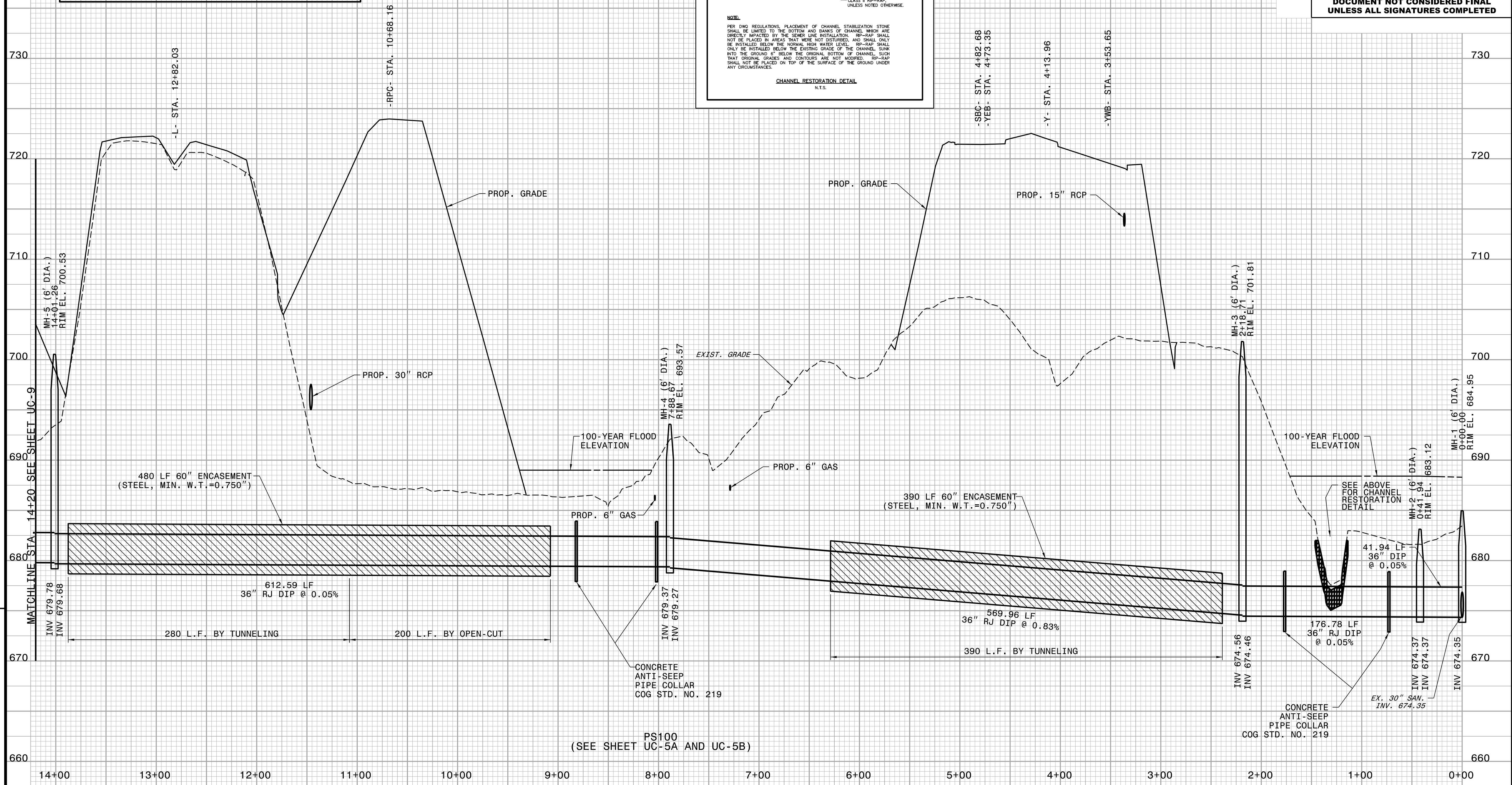
- SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED SEWER LINE, PS100.
- MANHOLES ON SEWER LINE PS100 SHALL BE PRECAST POLYMER CONCRETE, PER UC PROJECT SPECIAL PROVISIONS.
- PIPE ON SEWER LINE PS100 SHALL BE DIP, PC 250, WITH INTERIOR CERAMIC EPOXY LINING, PER UC PROJECT SPECIAL PROVISIONS.
- MH RING AND COVER FOR ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER CITY OF GREENSBORO STD. NO. 205-B.



**UTILITY CONSTRUCTION**

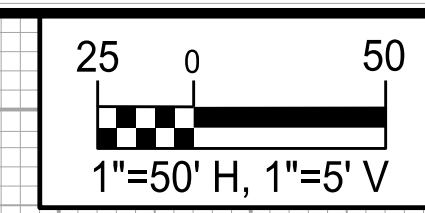
**DOCUMENT NOT CONSIDERED FINAL  
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REVISIONS



5/14/99

REVISIONS

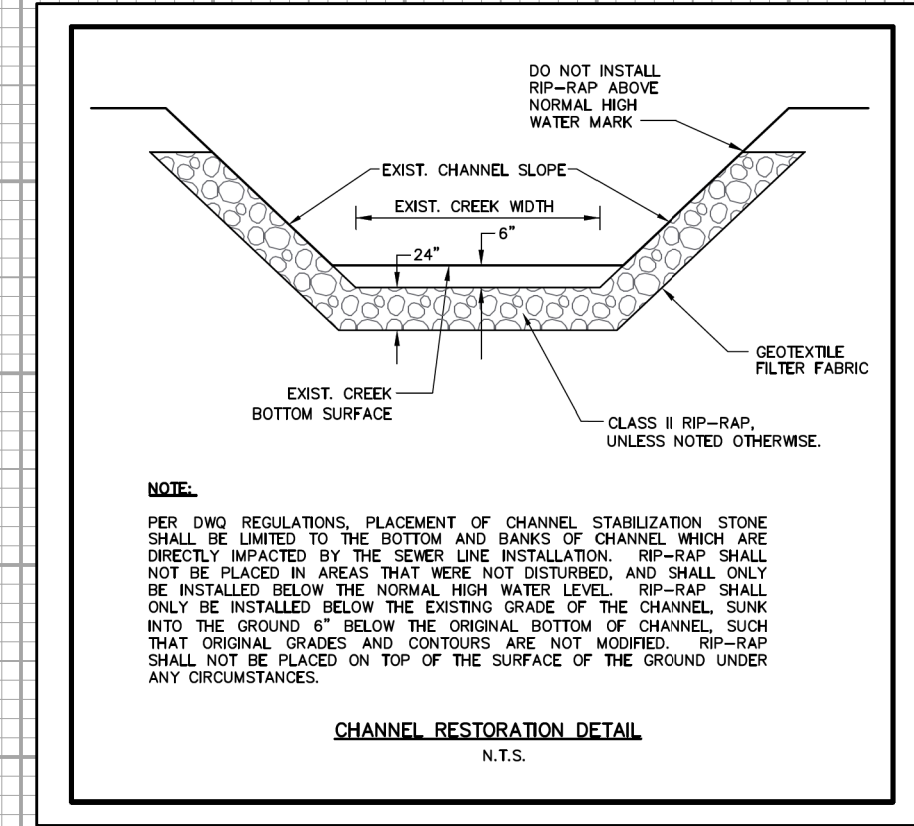


PROJECT REFERENCE NO. R-4707	SHEET NO. UC-9
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
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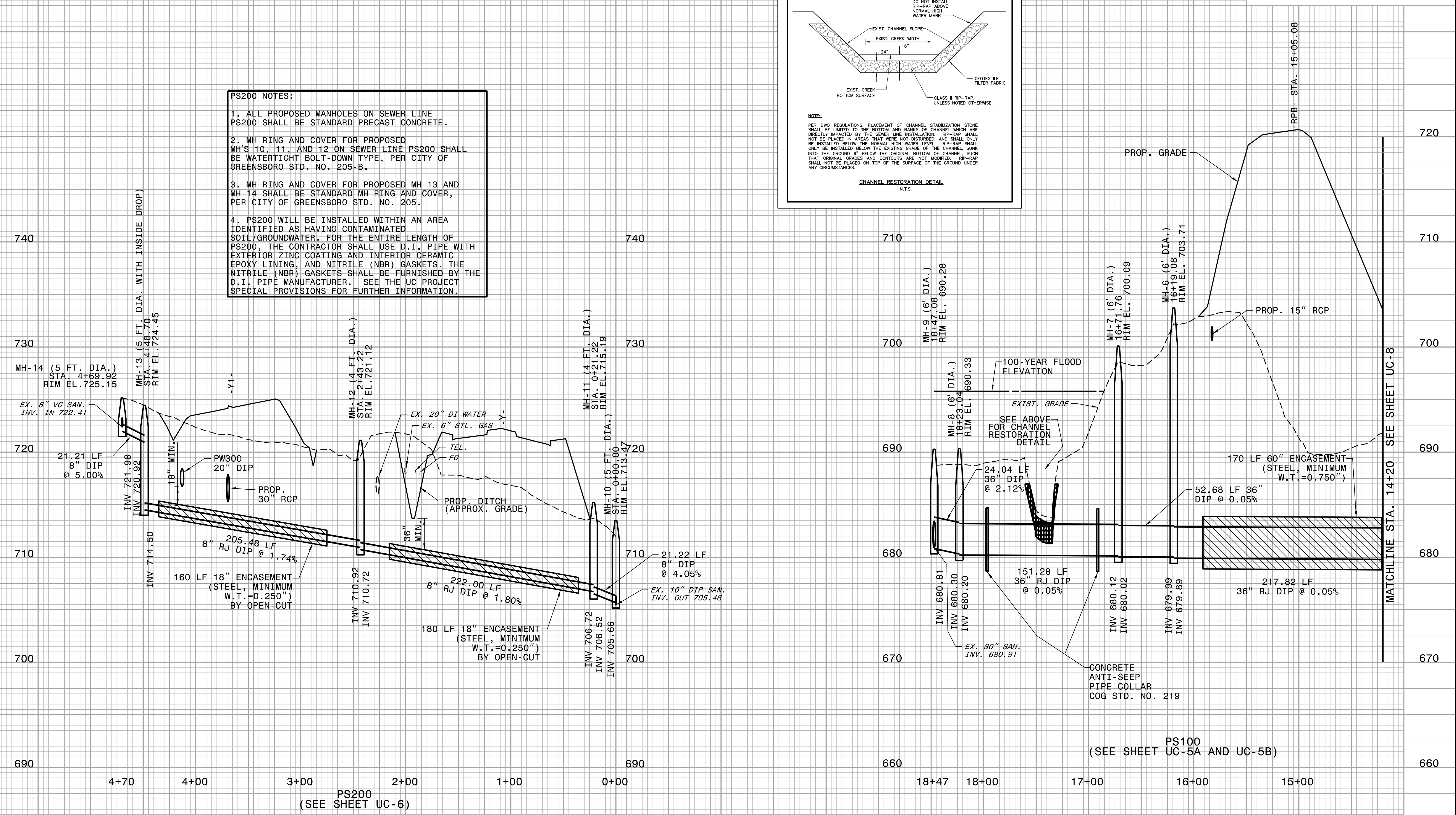
### UTILITY CONSTRUCTION

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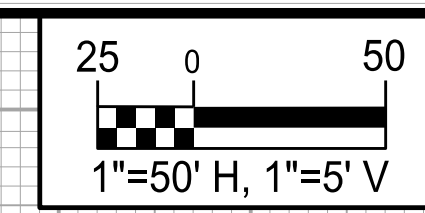
- PS100 NOTES:**
- SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED SEWER LINE, PS100.
  - MANHOLES ON SEWER LINE PS100 SHALL BE PRECAST POLYMER CONCRETE, PER UC PROJECT SPECIAL PROVISIONS.
  - PIPE ON SEWER LINE PS100 SHALL BE DIP, PG 250, WITH INTERIOR CERAMIC EPOXY LINING, PER UC PROJECT SPECIAL PROVISIONS.
  - MH RING AND COVER FOR ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER CITY OF GREENSBORO STD. NO. 205-B.



- PS200 NOTES:**
- ALL PROPOSED MANHOLES ON SEWER LINE PS200 SHALL BE STANDARD PRECAST CONCRETE.
  - MH RING AND COVER FOR PROPOSED MH'S 10, 11, AND 12 ON SEWER LINE PS200 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER CITY OF GREENSBORO STD. NO. 205-B.
  - MH RING AND COVER FOR PROPOSED MH 13 AND MH 14 SHALL BE STANDARD MH RING AND COVER, PER CITY OF GREENSBORO STD. NO. 205.
  - PS200 WILL BE INSTALLED WITHIN AN AREA IDENTIFIED AS HAVING CONTAMINATED SOIL/GROUNDWATER. FOR THE ENTIRE LENGTH OF PS200, THE CONTRACTOR SHALL USE D.I. PIPE WITH EXTERIOR ZINC COATING AND INTERIOR CERAMIC EPOXY LINING, AND NITRILE (NBR) GASKETS. THE NITRILE (NBR) GASKETS SHALL BE FURNISHED BY THE D.I. PIPE MANUFACTURER. SEE THE UC PROJECT SPECIAL PROVISIONS FOR FURTHER INFORMATION.



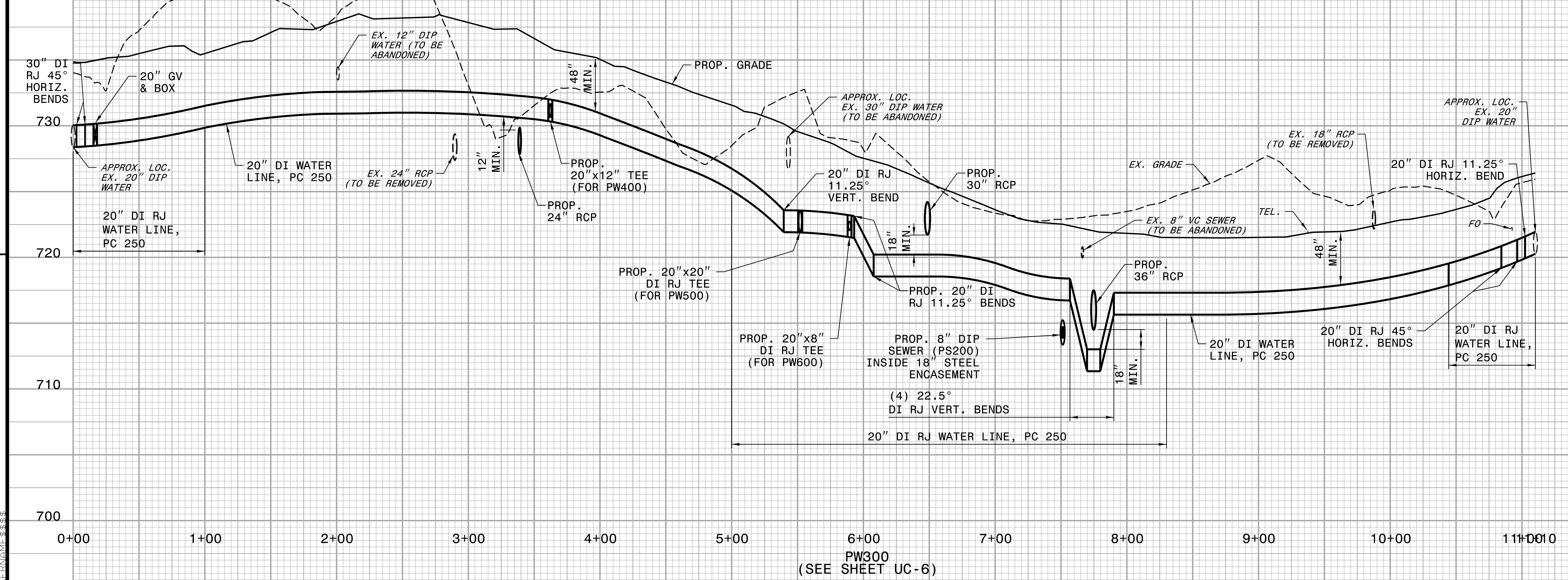
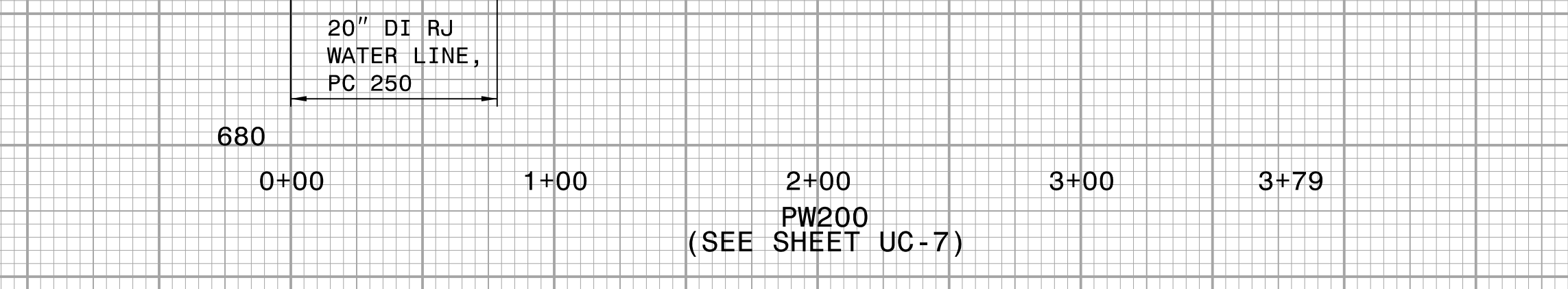
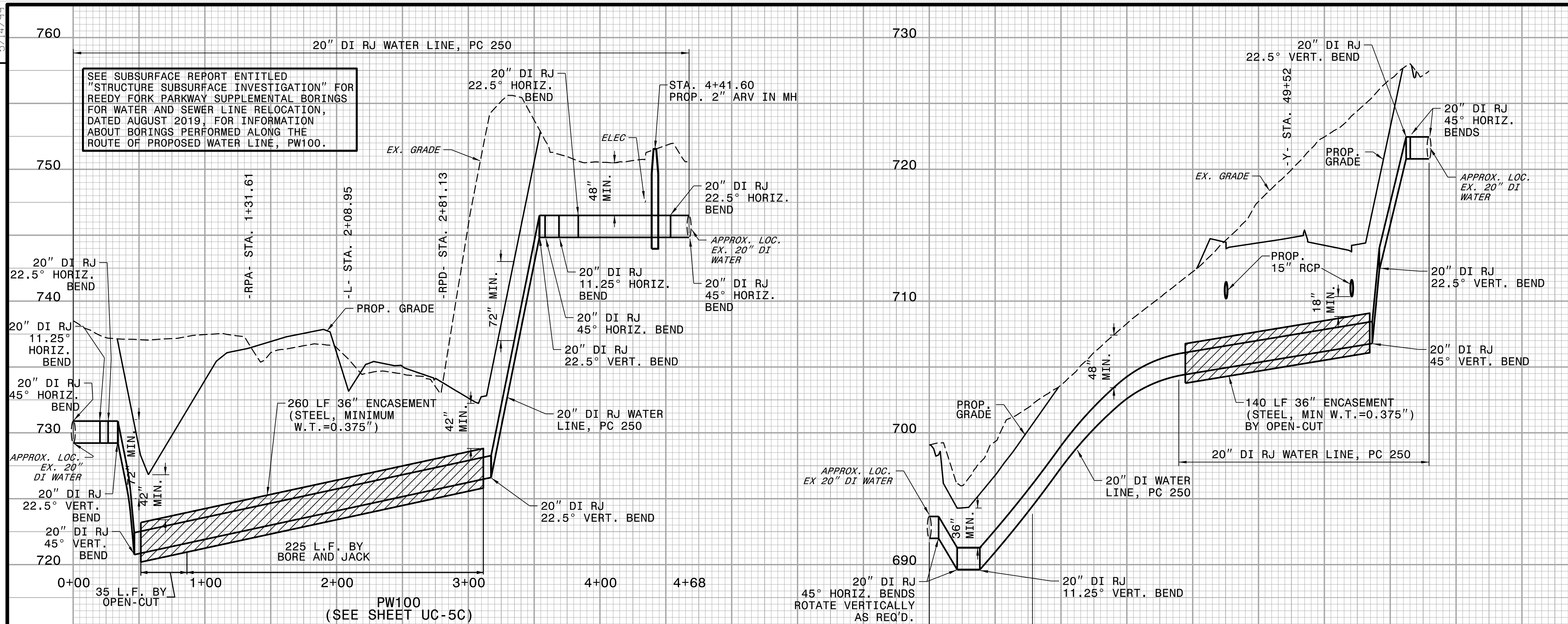
5/14/20



PROJECT REFERENCE NO.	SHEET NO.
R-4707	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

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**PW300 NOTES:**

1. A SECTION OF PW300 WILL BE INSTALLED WITHIN AN AREA IDENTIFIED AS HAVING CONTAMINATED SOIL/GROUNDWATER. FROM STA 6+12 TO STA 9+62 ON PW300, THE CONTRACTOR SHALL USE D.I. PIPE WITH EXTERIOR ZINC COATING AND NITRILE (NBR) GASKETS. THE NITRILE (NBR) GASKETS SHALL BE FURNISHED BY THE D.I. PIPE MANUFACTURER. SEE THE UC PROJECT SPECIAL PROVISIONS FOR FURTHER INFORMATION.

REVISIONS

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