

09/08/99

TIP PROJECT: U-5711

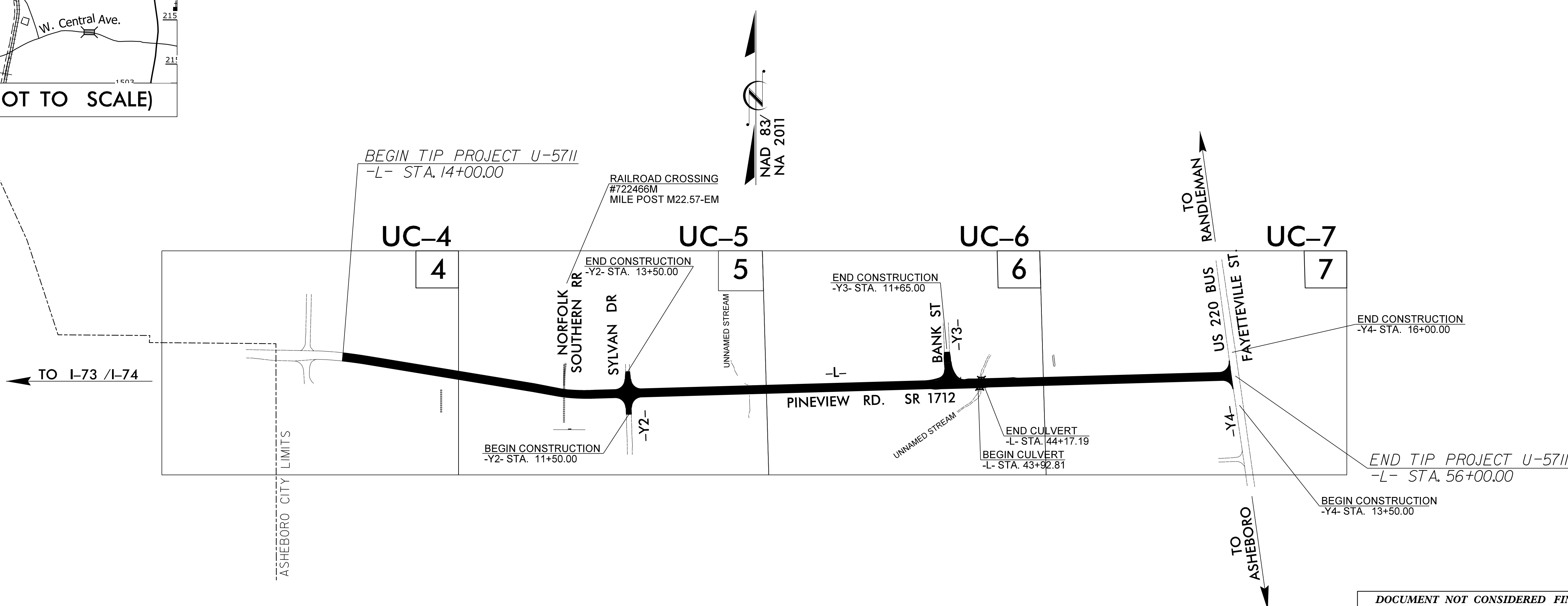
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

|            |           |
|------------|-----------|
| T.I.P. NO. | SHEET NO. |
| U-5711     | UC-1      |

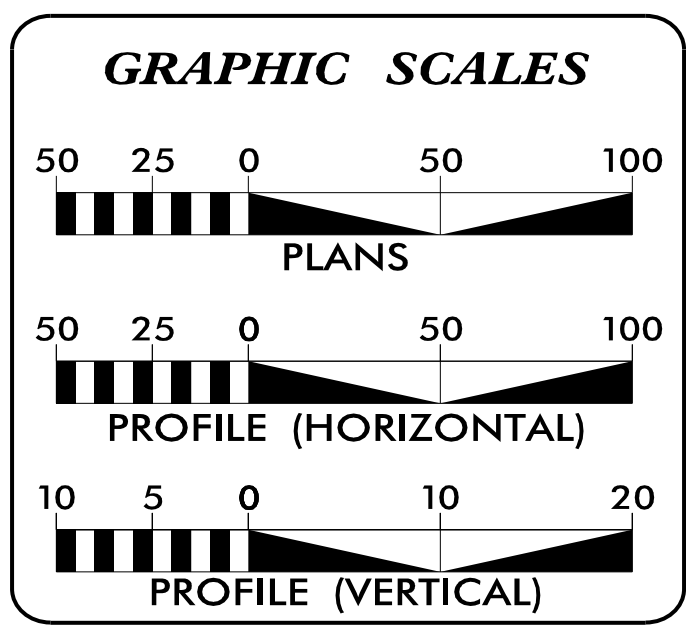
UTILITY CONSTRUCTION PLANS  
RANDOLPH COUNTY

LOCATION: SR 1712 (PINEVIEW ROAD) FROM WEST OF  
SYLVAN DRIVE TO US 220 BUSINESS IN ASHEBORO

TYPE OF WORK: UTILITY WORK



DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED



| INDEX OF SHEETS  |                          |
|------------------|--------------------------|
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| UC-3             | UTILITY NOTES            |
| UC-3A THRU UC-3B | UTILITY DETAILS          |
| UC-4 THRU UC-7   | UTILITY CONSTR. PLANS    |
| UC-8 THRU UC-11  | UTILITY CONSTR. PROFILES |

WATER AND SEWER OWNERS  
ON PROJECT

(A) - WATER, GRAVITY SANITARY SEWER, AND  
FORCE SEWER - CITY OF ASHEBORO

PREPARED IN THE OFFICE OF

**M** MOTT MACDONALD  
930 Main Campus Dr., Suite 200  
Raleigh, NC 27606  
www.mottmac.com

NC LICENSE NO. F-0669

DONNA JACKSON P.E. CONSULTANT CONTACT #1  
BUDDY STEWART CONSULTANT CONTACT #2

SEAL

NORTH CAROLINA  
PROFESSIONAL ENGINEER  
DONNA S. JACKSON  
014908

24-Mar-2026

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

MICHAEL RICKETTS UTILITIES DIVISION ENGINEER  
TRENT CAVINESS DIVISION UTILITIES COORDINATOR

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

|                                 |        |
|---------------------------------|--------|
| Water Line (Sized as Shown)     | 12" WL |
| 11¼ Degree Bend                 | +      |
| 22½ Degree Bend                 | +x     |
| 45 Degree Bend                  | +x     |
| 90 Degree Bend                  | +†     |
| Plug                            | ⌑      |
| Tee                             | ⌒      |
| Cross                           | ⌕      |
| Reducer                         | ▶      |
| Gate Valve                      | GV     |
| Butterfly Valve                 | BV     |
| Tapping Valve                   | TGV    |
| Line Stop                       | LS     |
| Line Stop with Bypass           | LS/BP  |
| Blow Off                        | BO     |
| Fire Hydrant                    | PFH    |
| Relocate Fire Hydrant           | REH    |
| Remove Fire Hydrant             | REM FH |
| Water Meter                     | PWM    |
| Relocate Water Meter            | RWM    |
| Remove Water Meter              | REM WM |
| Water Pump Station              | PS(W)  |
| RPZ Backflow Preventer          | RPZ    |
| DCV Backflow Preventer          | PBFP   |
| Relocate RPZ Backflow Preventer | RRPZ   |
| Relocate DCV Backflow Preventer | RBFP   |

PROPOSED SEWER SYMBOLS

|                                        |         |
|----------------------------------------|---------|
| Gravity Sewer Line (Sized as Shown)    | 12" SS  |
| Force Main Sewer Line (Sized as Shown) | 12" FSS |
| Manhole (Sized per Note)               | •       |
| Sewer Pump Station                     | PS(SS)  |

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

|                                        |                    |
|----------------------------------------|--------------------|
| Power Pole                             | ⦿                  |
| Telephone Pole                         | ⦿                  |
| Joint Use Pole                         | ⦿                  |
| Telephone Pedestal                     | TEL PED            |
| Utility Line by Others (Type as Shown) | PROP O/H POW LINES |
| Trenchless Installation                | 12" TL INSTALL     |
| Encasement by Open Cut                 | 24" ENCAS BY OC    |
| Encasement                             | 24" ENCASUREMENT   |

|                   |          |
|-------------------|----------|
| Thrust Block      | ⌑        |
| Air Release Valve | AR       |
| Utility Vault     | UV       |
| Concrete Pier     | CP       |
| Steel Pier        | SP       |
| Plan Note         | NOTE     |
| Pay Item Note     | PAY ITEM |

EXISTING UTILITIES SYMBOLS

|                                        |        |
|----------------------------------------|--------|
| Power Pole                             | •      |
| Telephone Pole                         | •      |
| Joint Use Pole                         | •      |
| Utility Pole                           | •      |
| Utility Pole with Base                 | □      |
| H-Frame Pole                           | •—•    |
| Power Transmission Line Tower          | ⊠      |
| Water Manhole                          | ⊗      |
| Power Manhole                          | ⊙      |
| Telephone Manhole                      | ⊙      |
| Sanitary Sewer Manhole                 | ⊙      |
| Hand Hole for Cable                    | ⊠      |
| Power Transformer                      | ⊠      |
| Telephone Pedestal                     | ⊠      |
| CATV Pedestal                          | ⊠      |
| Gas Valve                              | ◇      |
| Gas Meter                              | ◇      |
| Located Miscellaneous Utility Object   | ⦿      |
| Abandoned According to Utility Records | AATUR  |
| End of Information                     | E.O.I. |

|                                           |                    |
|-------------------------------------------|--------------------|
| *Underground Power Line                   | —                  |
| *Underground Telephone Cable              | —T—                |
| *Underground Telephone Conduit            | —TC—               |
| *Underground Fiber Optics Telephone Cable | —T Fo—             |
| *Underground TV Cable                     | —TV—               |
| *Underground Fiber Optics TV Cable        | —Tv Fo—            |
| *Underground Gas Pipeline                 | —G—                |
| Aboveground Gas Pipeline                  | A/G Gas            |
| *Underground Water Line                   | —W—                |
| Aboveground Water Line                    | A/G Water          |
| *Underground Gravity Sanitary Sewer Line  | —SS—               |
| Aboveground Gravity Sanitary Sewer Line   | A/G Sanitary Sewer |
| *Underground SS Forced Main Line          | —FSS—              |
| Underground Unknown Utility Line          | —?UTL—             |
| SUE Test Hole                             | ⦿                  |
| Water Meter                               | ⦿                  |
| Water Valve                               | ⦿                  |
| Fire Hydrant                              | ⦿                  |
| Sanitary Sewer Cleanout                   | ⦿                  |

\*For Existing Utilities

|                                                |     |
|------------------------------------------------|-----|
| Utility Line Drawn from Record (Type as Shown) | —W— |
| Designated Utility Line (Type as Shown)        | —W— |

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION

GENERAL NOTES:

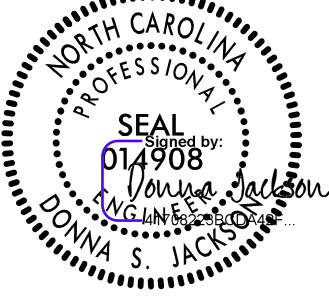
- 1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2024.
- 2. THE EXISTING UTILITIES BELONG TO CITY OF ASHEBORO.
- 3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE 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.
- 10. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.
- 11. PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINE CONVEYING FLAMMABLE AND NON-FLAME SUBSTANCES.
- 12. BLASTING NOT PERMITTED.

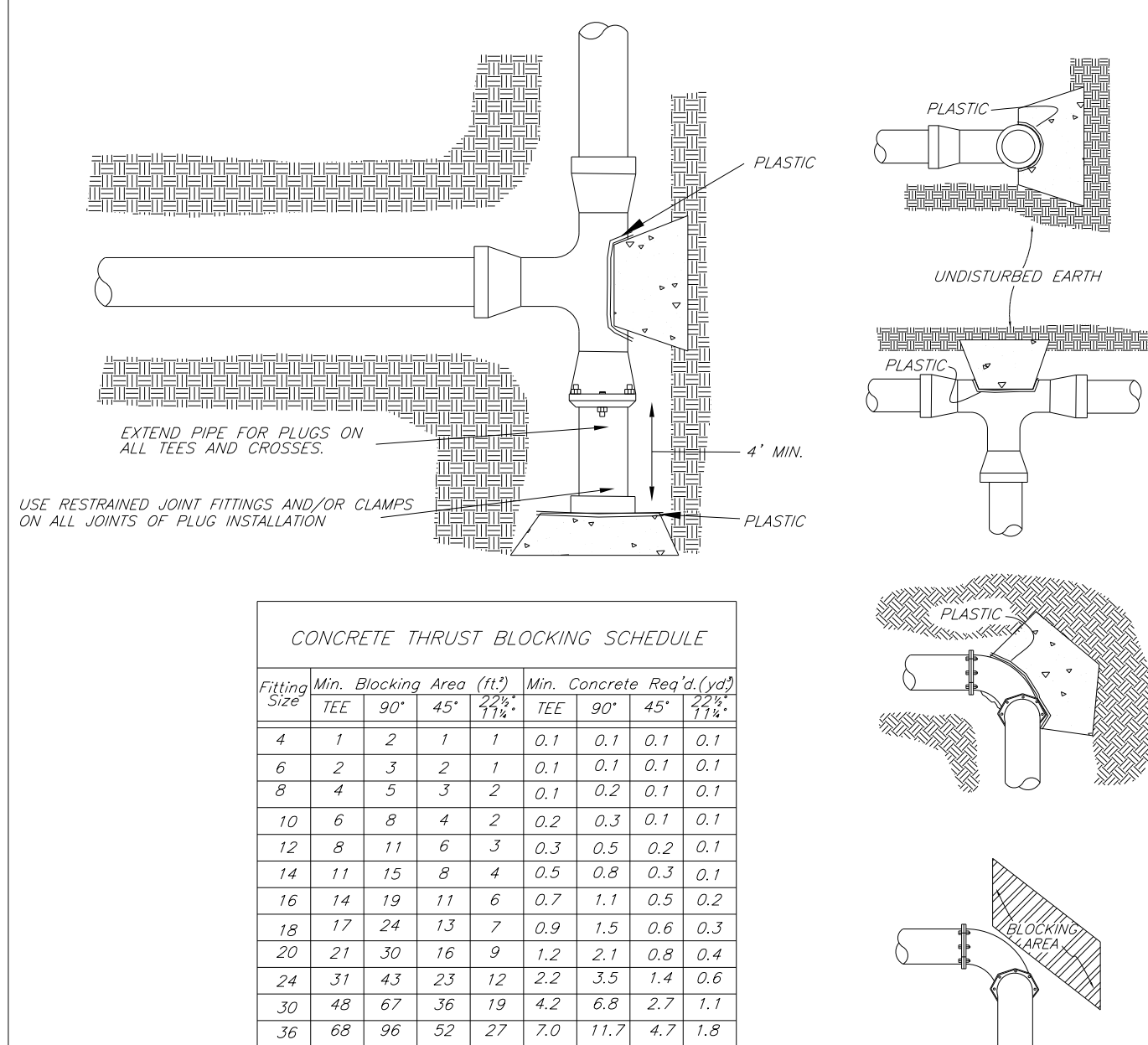
PROJECT SPECIFIC NOTES:

- 1. 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.
- 2. ALL EXISTING WATER SERVICES ON WATER MAINS TO BE TAKEN OUT OF SERVICE SHALL BE REPLACED WITH A NEW SERVICE, METER SETTERS AND METER BOX OF EQUAL SIZE IN ACCORDANCE WITH CITY OF ASHEBORO STANDARDS.
- 3. WELL IN ADVANCE OF BEGINNING UTILITY WORK, SOFT DIGS SHALL BE PERFORMED BY CONTRACTOR TO VERIFY ACTUAL WATER LINE & FORCE SEWER MAIN DEPTHS AND MATERIALS AT PROPOSED TIE-IN LOCATIONS.
- 4. LAY PIPE STRAIGHT IN ALIGNMENT AND GRADIENT OR FOLLOW TRUE CURVES AS NEARLY AS POSSIBLE. DO NOT DEFLECT ANY JOINT MORE THAN THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.
- 5. ANY SERVICE INTERRUPTIONS SHALL BE SCHEDULED FOR MINIMAL IMPACT TO CUSTOMERS AND APPROVED BY CITY OF ASHEBORO.
- 6. THE CONTRACTOR SHALL NOTIFY CITY OF ASHEBORO IN ADVANCE OF THE FOLLOWING ACTIVITIES:
  - A. START OF UTILITY CONSTRUCTION- 48 HOURS
  - B. MAIN LINE SERVICE INTERRUPTIONS- 96 HOURS
  - C. PRESSURE TESTING- 24 HOURS
  - D. DISINFECTION- 24 HOURS
- 7. CITY OF ASHEBORO AND NCDOT HAVE RIGHT-OF-ENTRY TO THE PROJECT SITE.
- 8. THE PROPOSED PIPELINE SHALL BE INSTALLED AT THE DEPTHS SHOWN IN THE PROFILE TO AVOID HIGH POINTS THAT CAN TRAP AIR. ALL COST FOR INSTALLATION IN DEEPER CUTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND SHOULD BE INCLUDED IN THE PRICE FOR FORCE MAIN AND WATER MAIN INSTALLATION.

- 9. THE CONTRACTOR SHALL NOT COMMENCE ANY WORK ON RAILROAD RIGHT-OF-WAY UNTIL HE HAS COMPLIED WITH THE CONDITIONS PRESENTED IN NS PUBLIC PROJECTS MANUAL. THE CONTRACTOR SHALL SO ARRANGE AND CONDUCT HIS WORK THAT THERE WILL BE NO INTERFERENCE WITH RAILROAD'S OPERATIONS. WHENEVER WORK IS LIABLE TO AFFECT THE OPERATIONS OR SAFETY OF TRAINS. THE METHODS OF DOING SUCH WORK SHALL FIRST BE SUBMITTED TO THE RAILROAD ENGINEER FOR APPROVAL. BUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM ANY LIABILITY. RIGHT-OF-WAY AND/OR SECURITY FENCING SHALL BE PROVIDED AS DIRECTED BY THE NS PUBLIC PROJECTS ENGINEER.
- 10. ALL VALVES USED IN PROJECT SHALL BE GATE VALVES.
- 11. THE CONTRACTOR SHALL LOCATE ALL SERVICES CURRENTLY CONNECTED TO EXISTING SEWER MAIN (WHETHER SHOWN OR NOT ON THE PLANS) AND CONNECT TO THE NEW SEWER BY INSTALLING A NEW CLEANOUT ASSEMBLY.

|                                                                      |     |                                                                                     |  |
|----------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO.                                                |     | SHEET NO.                                                                           |  |
| U-5711                                                               |     | UC-3                                                                                |  |
| DESIGNED BY:                                                         | DSJ |  |  |
| DRAWN BY:                                                            | PJ  |                                                                                     |  |
|                                                                      |     |                                                                                     |  |
|                                                                      |     |                                                                                     |  |
| REVISED:                                                             |     |                                                                                     |  |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION                          |     |                                                                                     |  |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 |     | 24-Mar-2026 UTILITY CONSTRUCTION PLANS ONLY                                         |  |

UTILITY CONSTRUCTION

UTILITY  
CONSTRUCTIONW  
1CONCRETE THRUST  
BLOCKING

INCREASE BLOCKING AREA AND CONCRETE QUANTITY FOR PRESSURES ABOVE 200 P.S.I. OR POOR SOIL CONDITIONS.

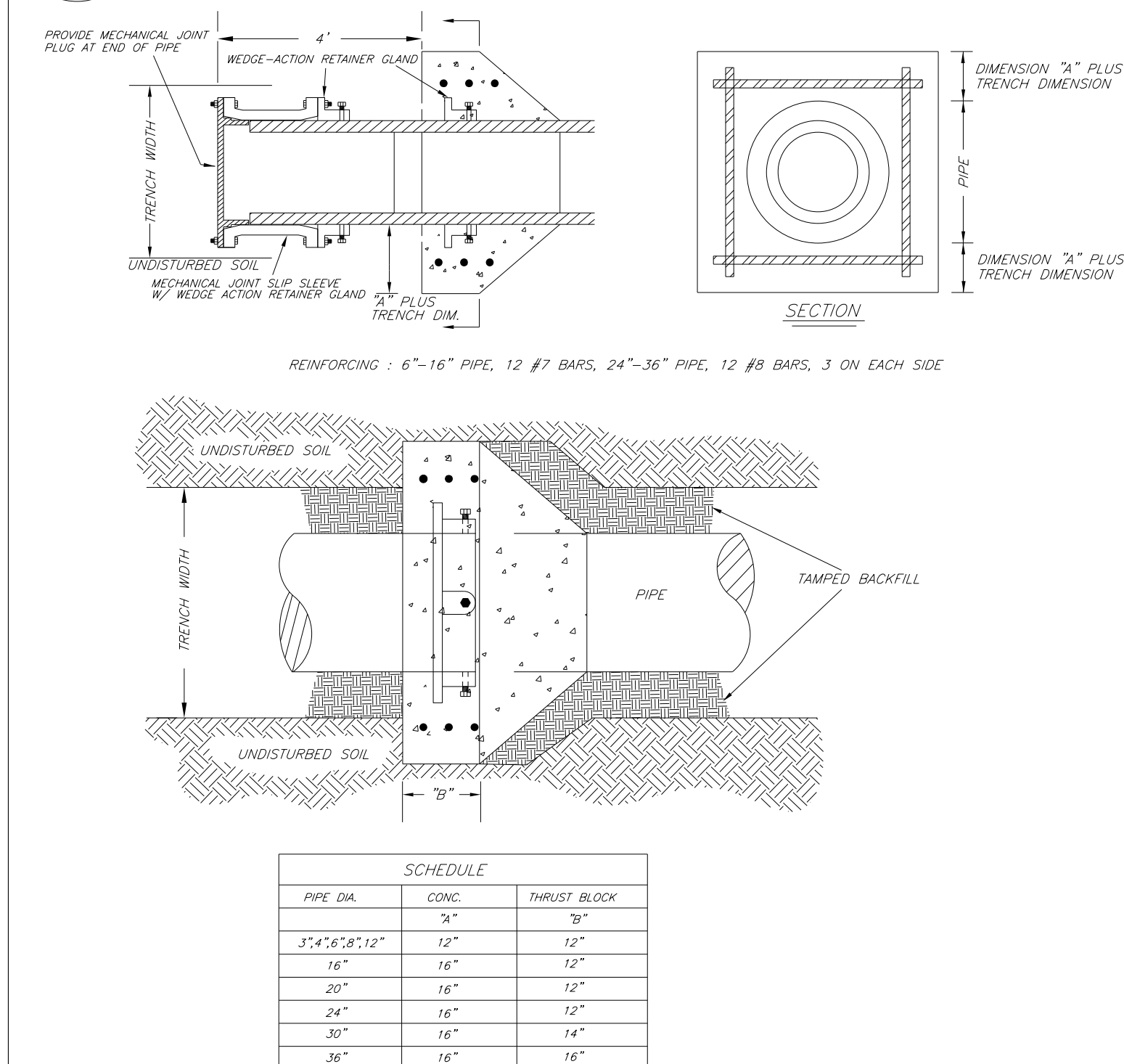
KEEP CONCRETE AWAY FROM JOINTS. PLACE CONCRETE FAIRLY DRY AND FORM IF REQUIRED FOR MAXIMUM AREA AGAINST UNDISTURBED SOIL.

ALL FITTINGS AND ACCESSORIES TO BE WRAPPED WITH 10 MIL POLYETHYLENE PRIOR TO POURING BLOCKING.

USE 3000 P.S.I. CONCRETE.

W  
2

## THRUST COLLAR INSTALLATION

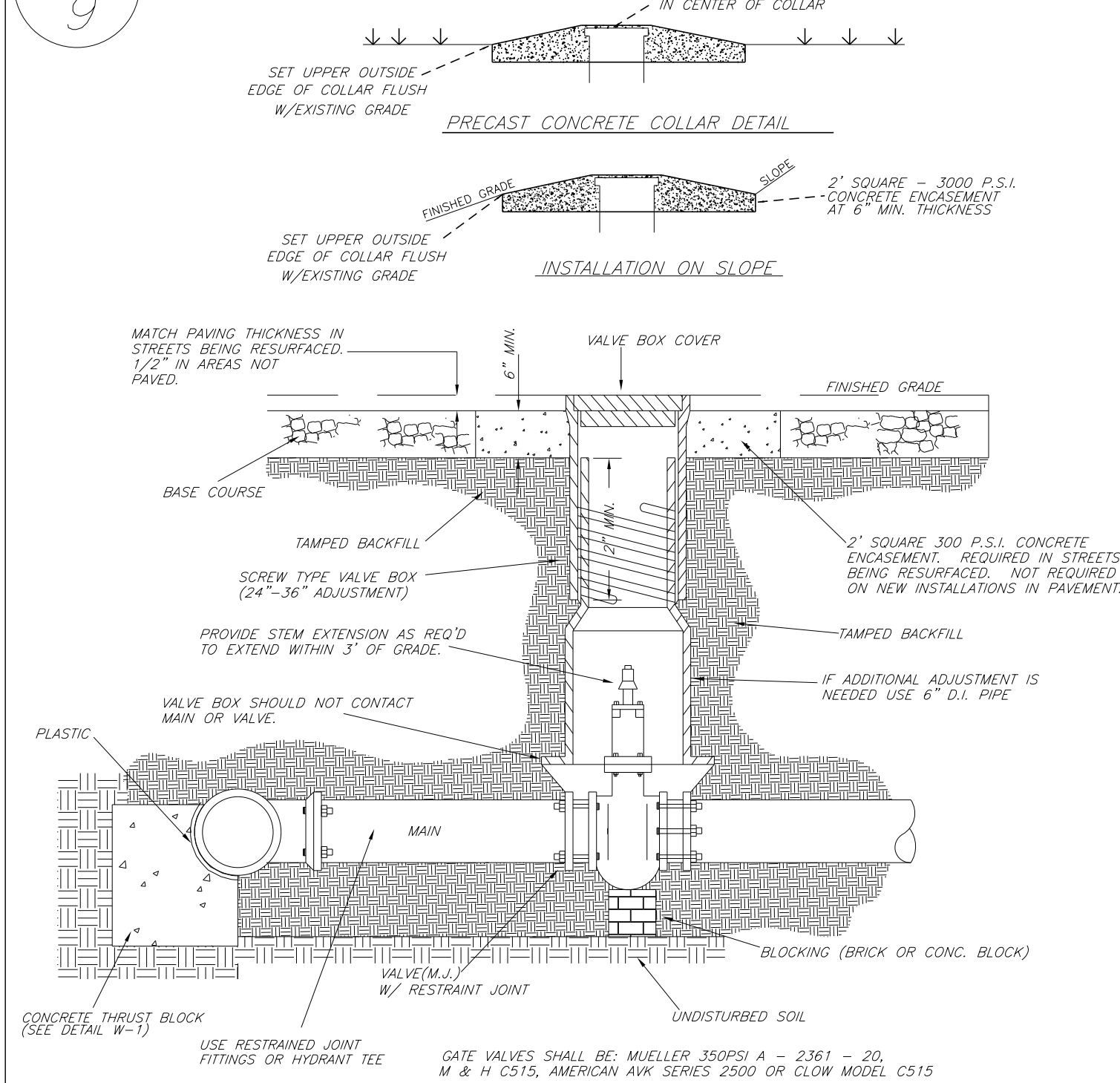
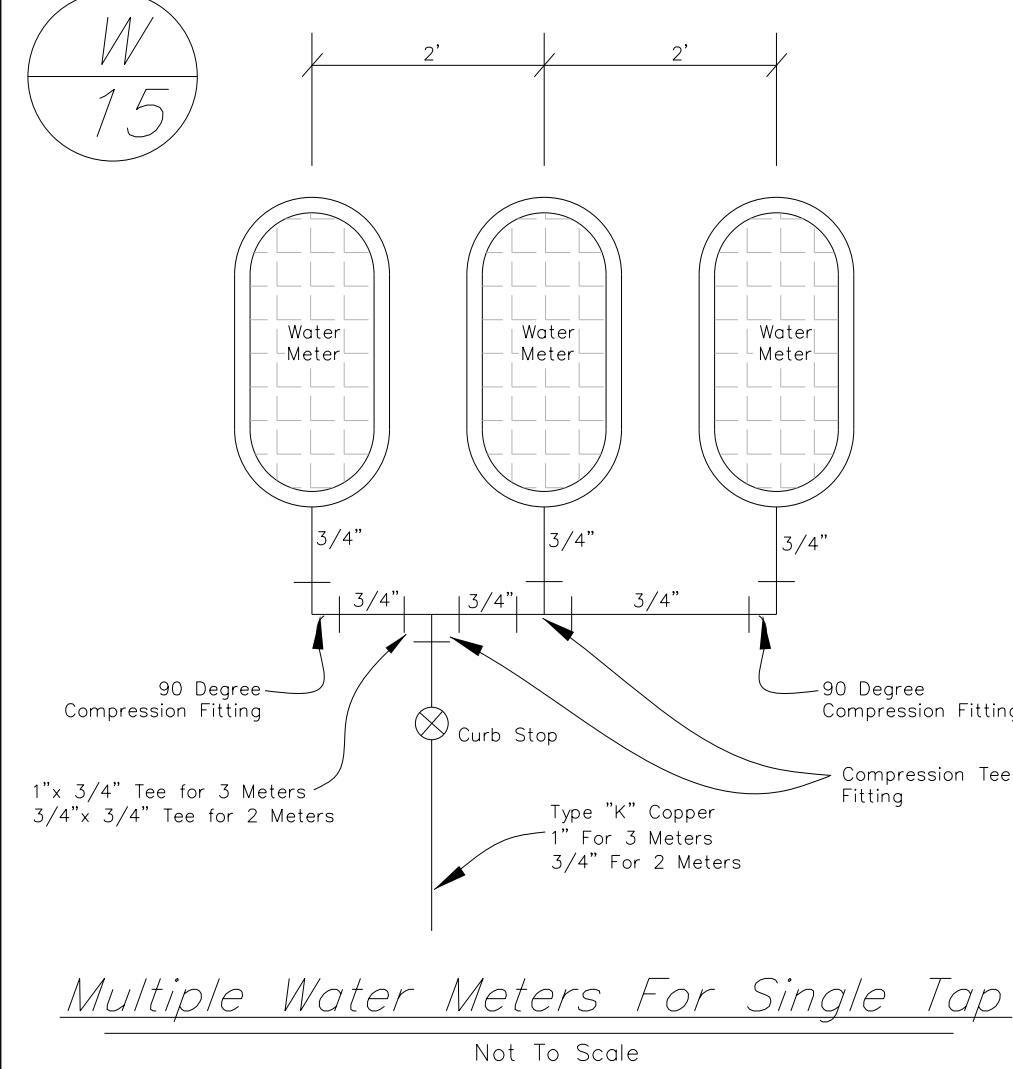


SIZE OF CONC. THRUST BLOCK AROUND PIPE TO BE DETERMINED BY DITCH (TRENCH) DIMENSION PLUS EXTENSION "4" INTO SIDES AND BOTTOM AS SHOWN IN SCHEDULE. CONC. INTO SIDES OF DITCH TO BE POURED AGAINST FIRM, UNDISTURBED GROUND. FILL AGAINST CONC. BLOCKING TO BE COMPACTED TO 95% PROCTOR FOR LENGTH ALONG PIPE OF AT LEAST 6'-0" EACH SIDE.

WHERE THRUST BLOCKING OCCURS, THE TRENCH SHOULD BE AT MINIMUM WIDTH.

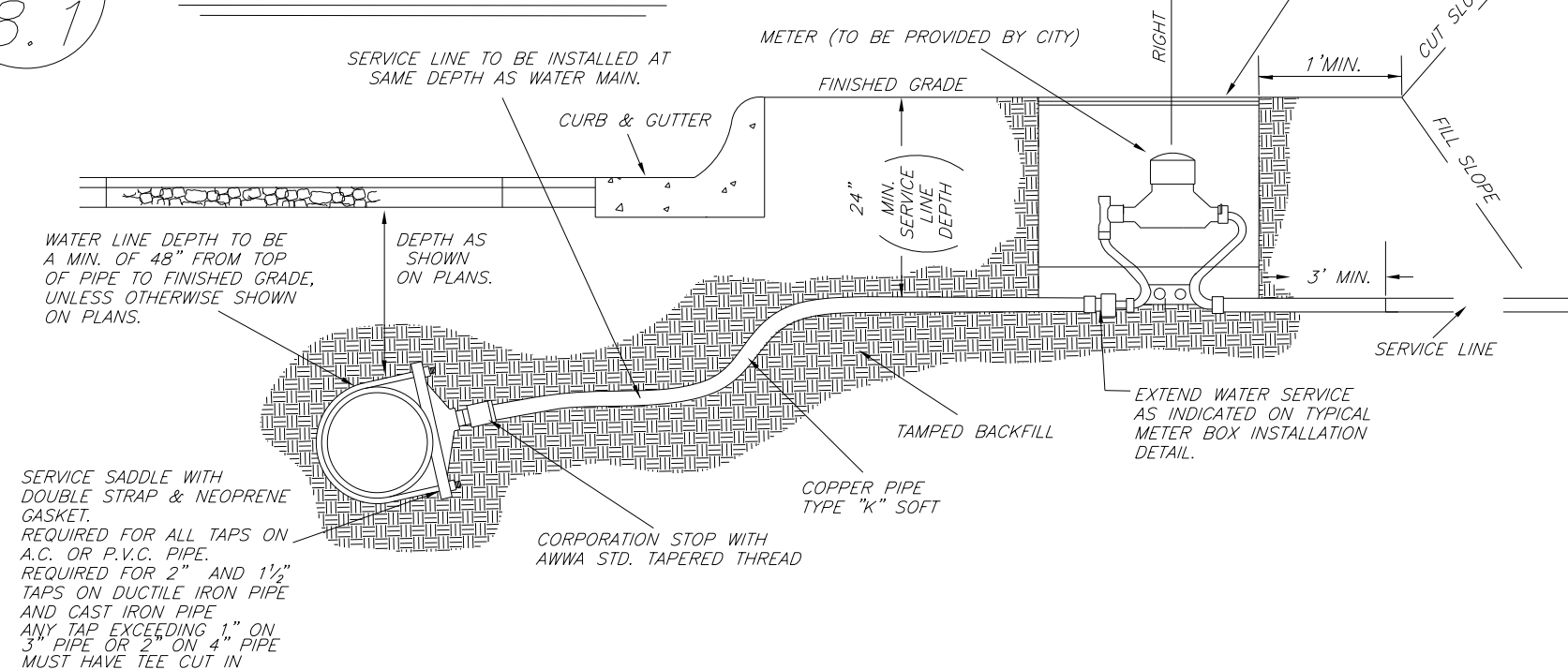
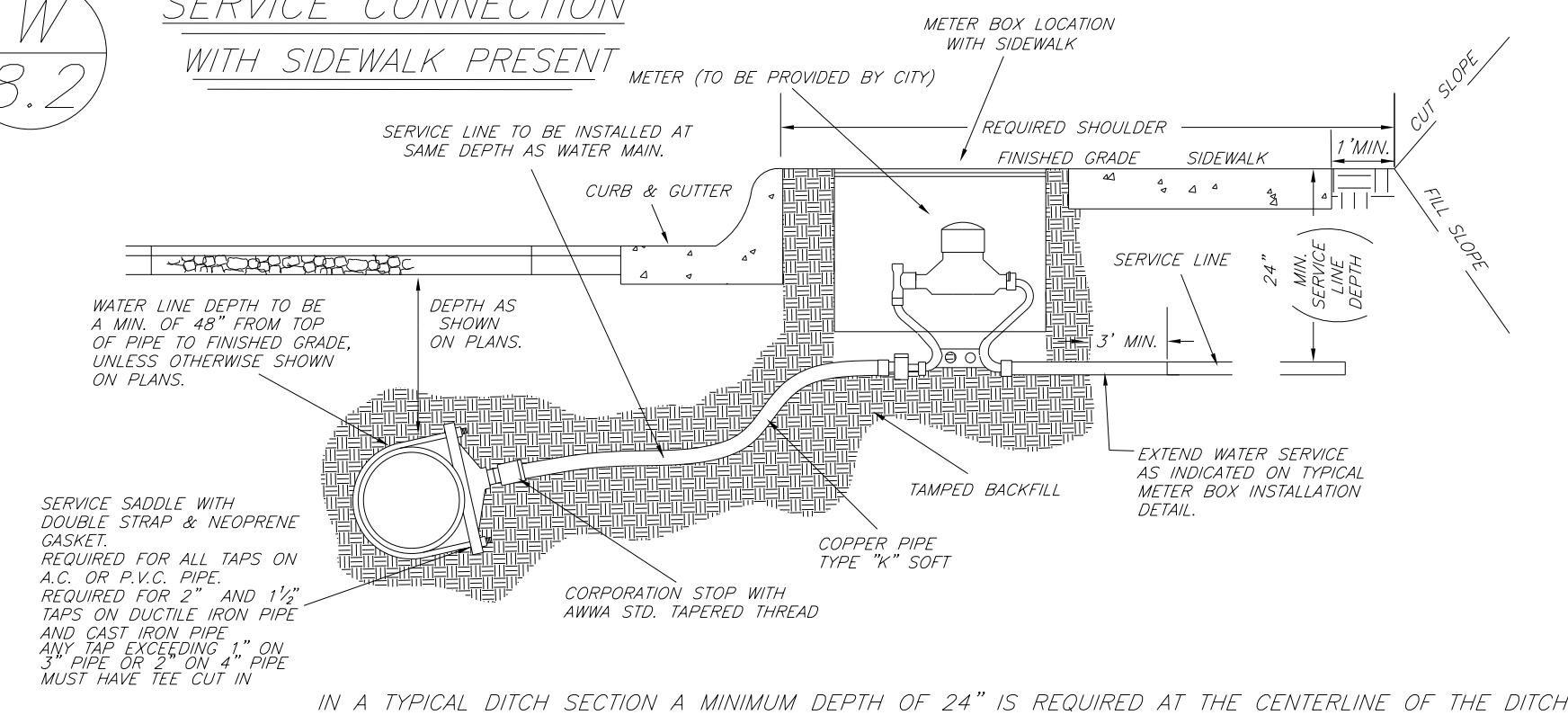
W  
9

## VALVE INSTALLATION

W  
15

Multiple Water Meters For Single Tap

Not To Scale

W  
8.1SERVICE CONNECTION  
WITHOUT SIDEWALK PRESENTW  
8.2SERVICE CONNECTION  
WITH SIDEWALK PRESENT

IN A TYPICAL DITCH SECTION A MINIMUM DEPTH OF 24" IS REQUIRED AT THE CENTERLINE OF THE DITCH.

## METER BOXES

METER BOXES SHALL BE MANUFACTURED IN THE FOLLOWING SIZES AND MODELS:

| SIZE | RUSSELL | VULCAN  | SUMTER MACHINE |
|------|---------|---------|----------------|
| 3/4" | MBX-2   | V8404-2 | MB2-MBC2       |

## METER SETTERS

METER SETTERS SHALL BE ALL BRASS MANUFACTURED IN THE FOLLOWING SIZES AND MODELS:

| SIZE | MUELLER   | MCDONALD    | FORD            |
|------|-----------|-------------|-----------------|
| 3/4" | B-2404-2A | 20-209WDD33 | VHCH72-9W-11-33 |

## CORPORATION STOPS

CORPORATION STOPS SHALL BE ALL BRASS WITH ANWW CROD STANDARD THREADS MANUFACTURED IN THE FOLLOWING SIZES AND MODELS:

| SIZE | MUELLER | MCDONALD | FORD       |
|------|---------|----------|------------|
| 3/4" | B-25008 | 24701BT  | F-1000-3-0 |

## CURB STOPS

CURB STOPS SHALL BE ALL BRASS MANUFACTURED IN THE FOLLOWING SIZES AND MODELS:

| SIZE | MUELLER | MCDONALD | FORD      |
|------|---------|----------|-----------|
| 3/4" | B-25172 | 6102WT   | B41-333-0 |

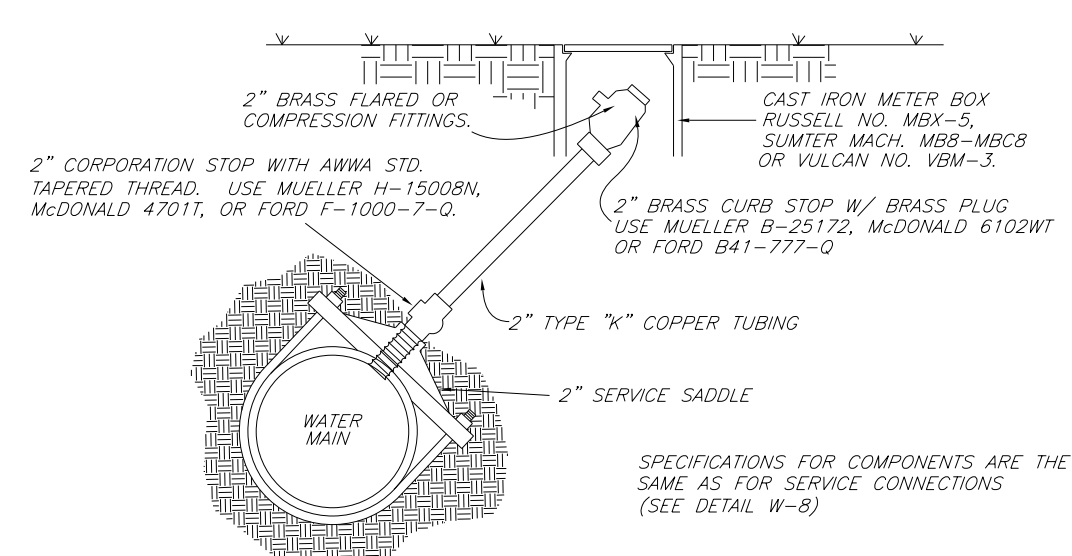
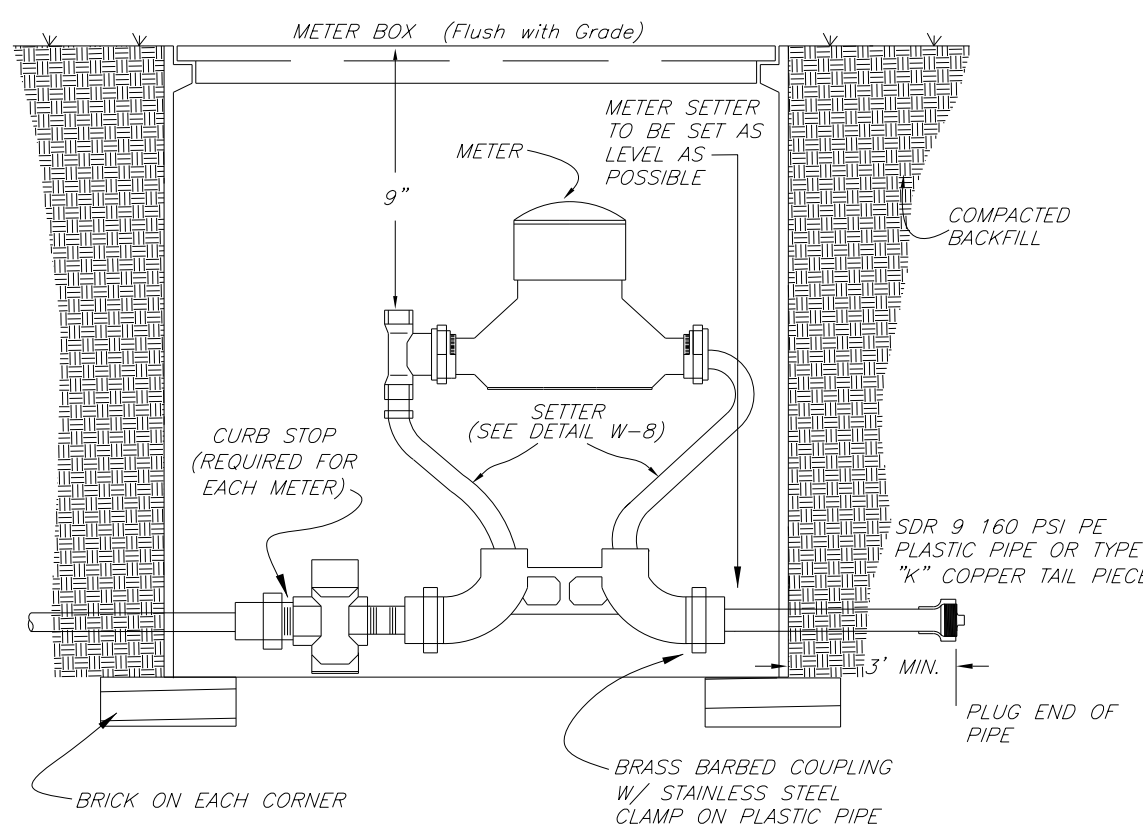
## SERVICE SADDLES

FURNISH AND INSTALL DOUBLE STAINLESS STEEL STRAP SERVICE SADDLES FOR ALL TAPS MADEON A.C., P.V.C. OR D.I. MAINS. NO SERVICE SADDL REQUIRED FOR DIRECT TAPS OF 3/4" AND 1" UNLESS D.I. PIPE IS LESS THAN 4" DIAMETER. SADDLES FURNISHED SHALL BE MANUFACTURED FOR TYPE OF PIPE INTO WHICH TAP IS MADE IN THE FOLLOWING SIZES AND MODELS AND SHALL INCLUDE A GASKET:

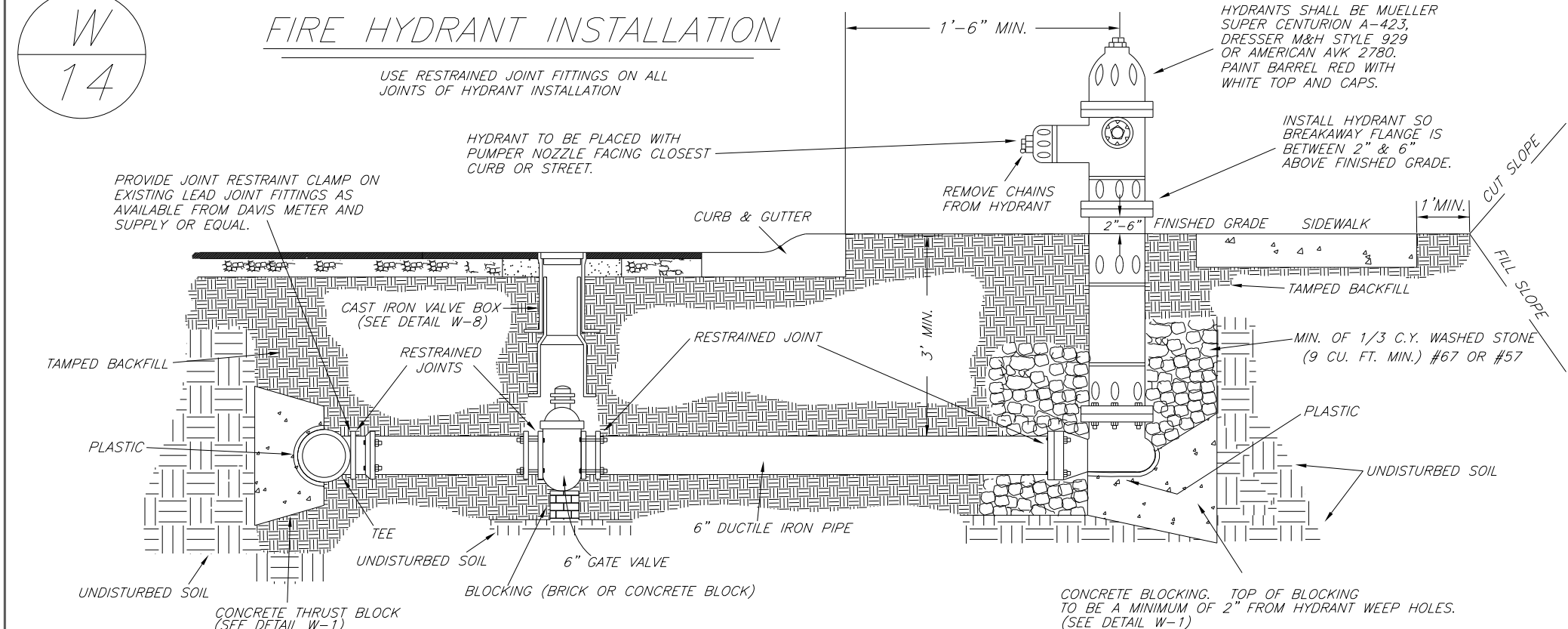
| SIZE | SMITH-BLAIR                               | ROMAC   | FORD        |
|------|-------------------------------------------|---------|-------------|
| 3/4" | SERVICE SADDLE WITH 3/4" CC (O.D. X 3/4") | 313-001 | 202NU FS202 |
| 2"   | SERVICE SADDLE WITH 2" CC (O.D. X 2")     | 313-001 | 202NU FS202 |

W  
10

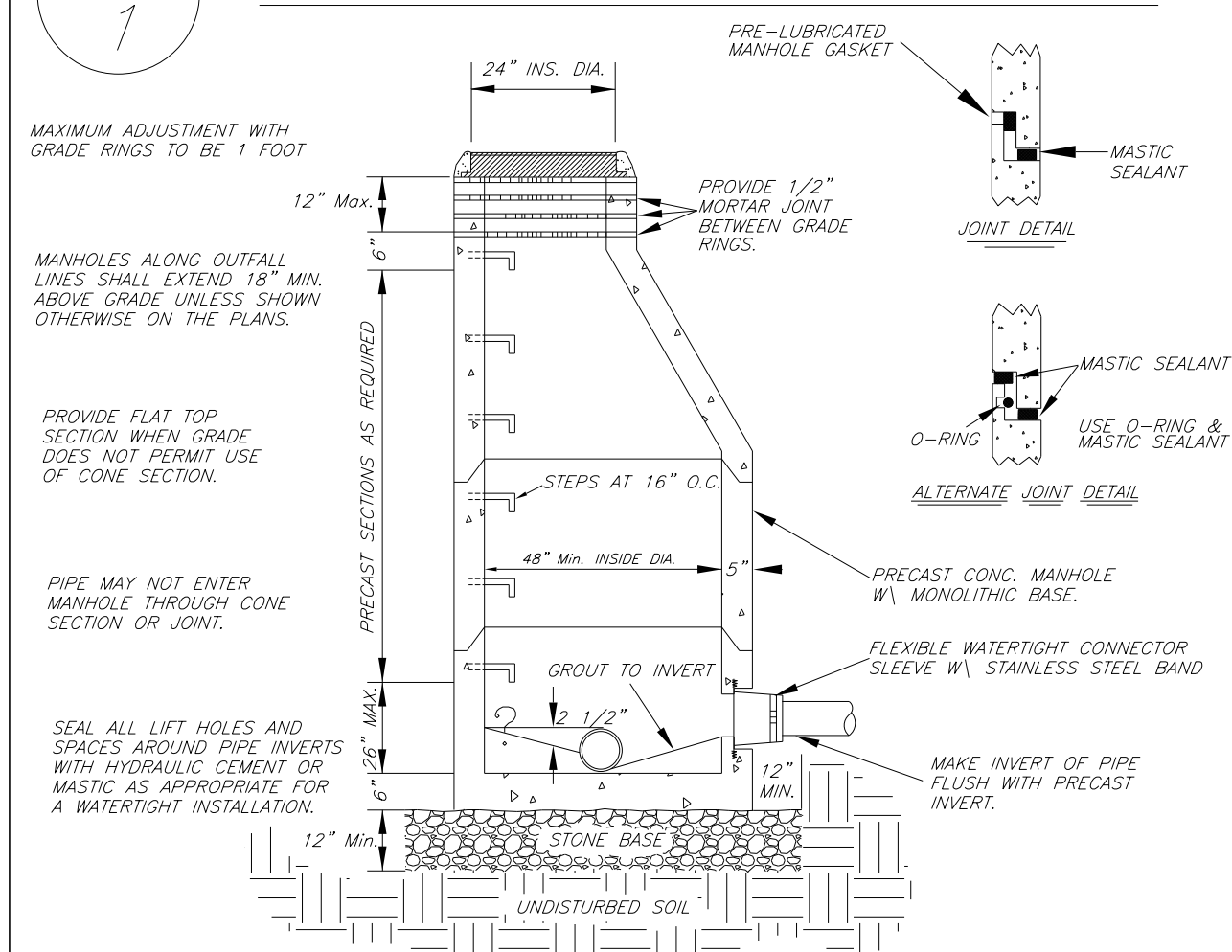
## 2" AIR RELIEF ASSEMBLY

W  
16TYPICAL 3/4" & 1" METER  
BOX INSTALLATIONW  
14

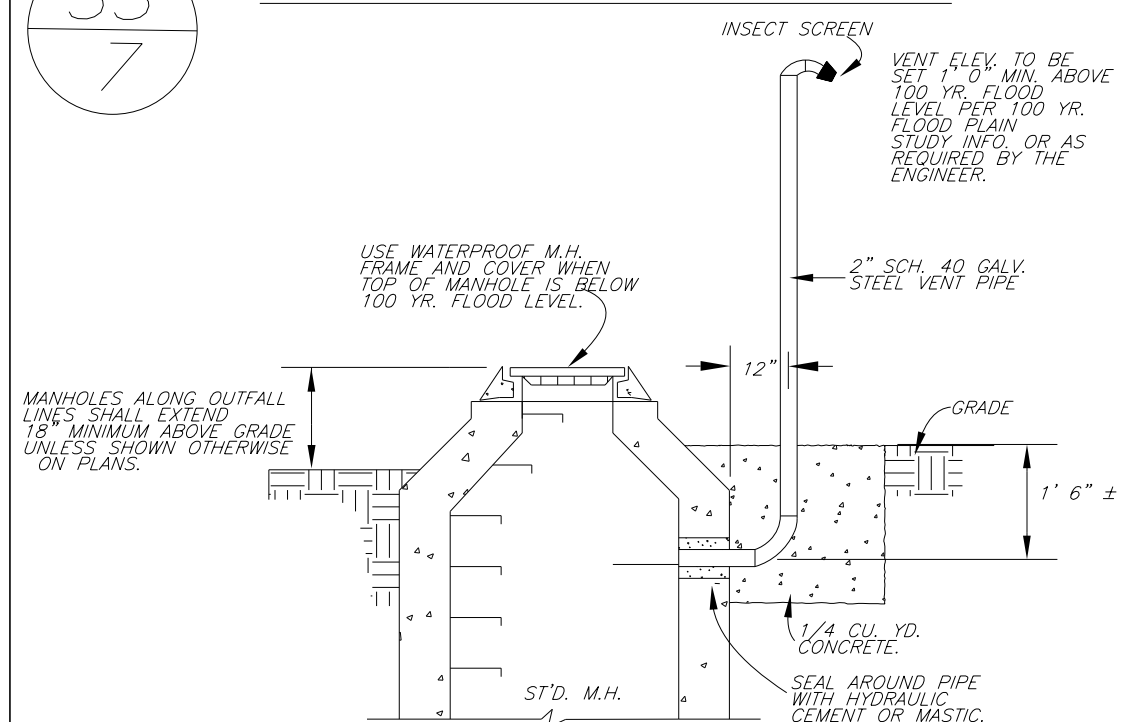
## FIRE HYDRANT INSTALLATION



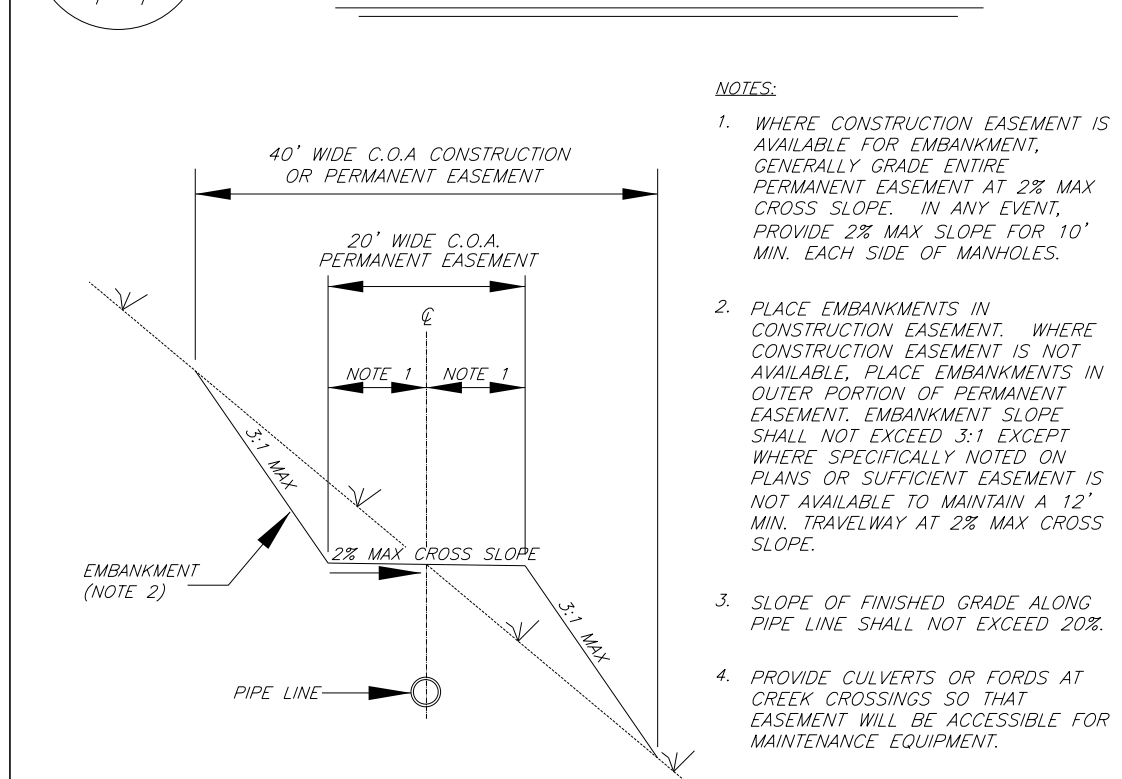
# SS 1 STANDARD PRECAST CONCRETE MANHOLE



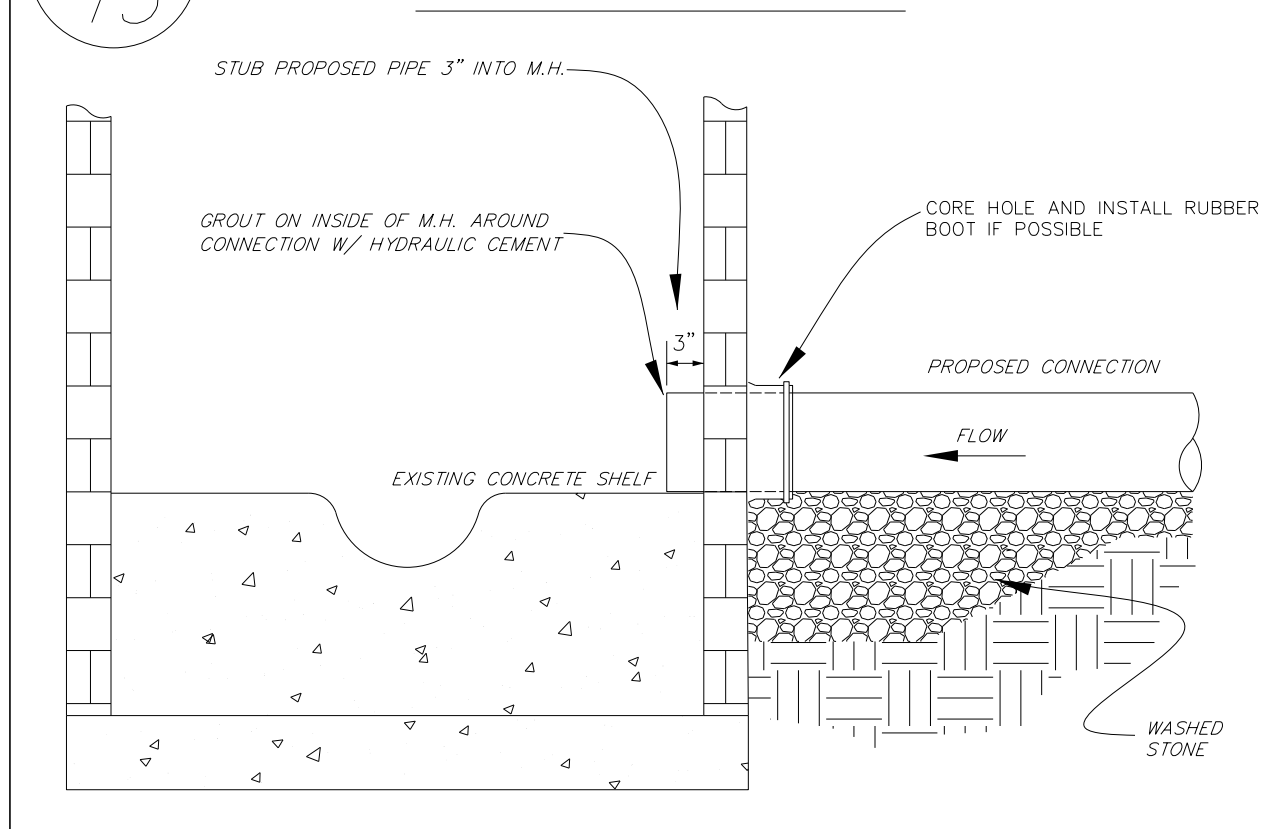
# SS 7 TYPICAL MANHOLE VENT DETAIL



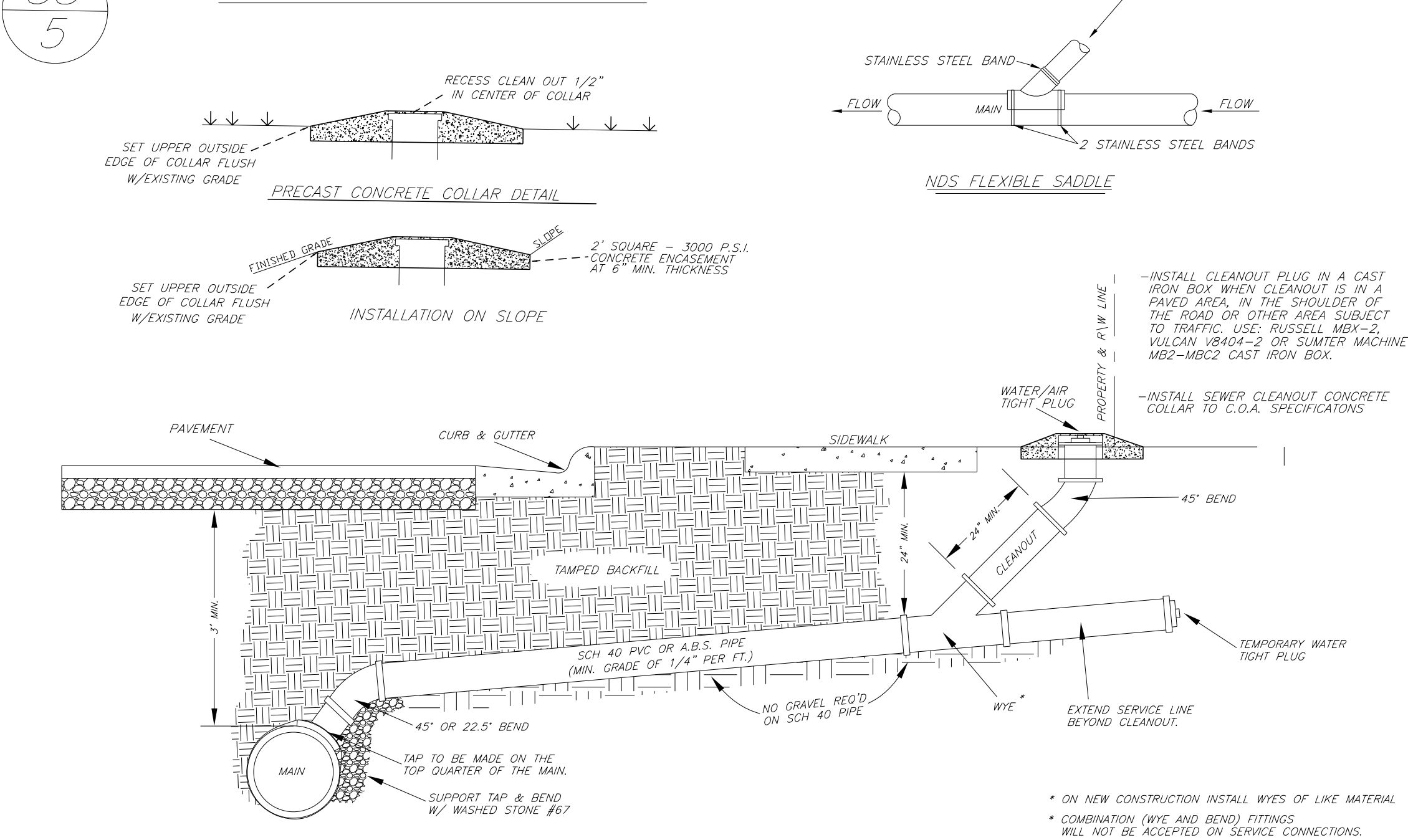
# SS 11 TYPICAL SANITARY SEWER EASEMENT CROSS SECTION



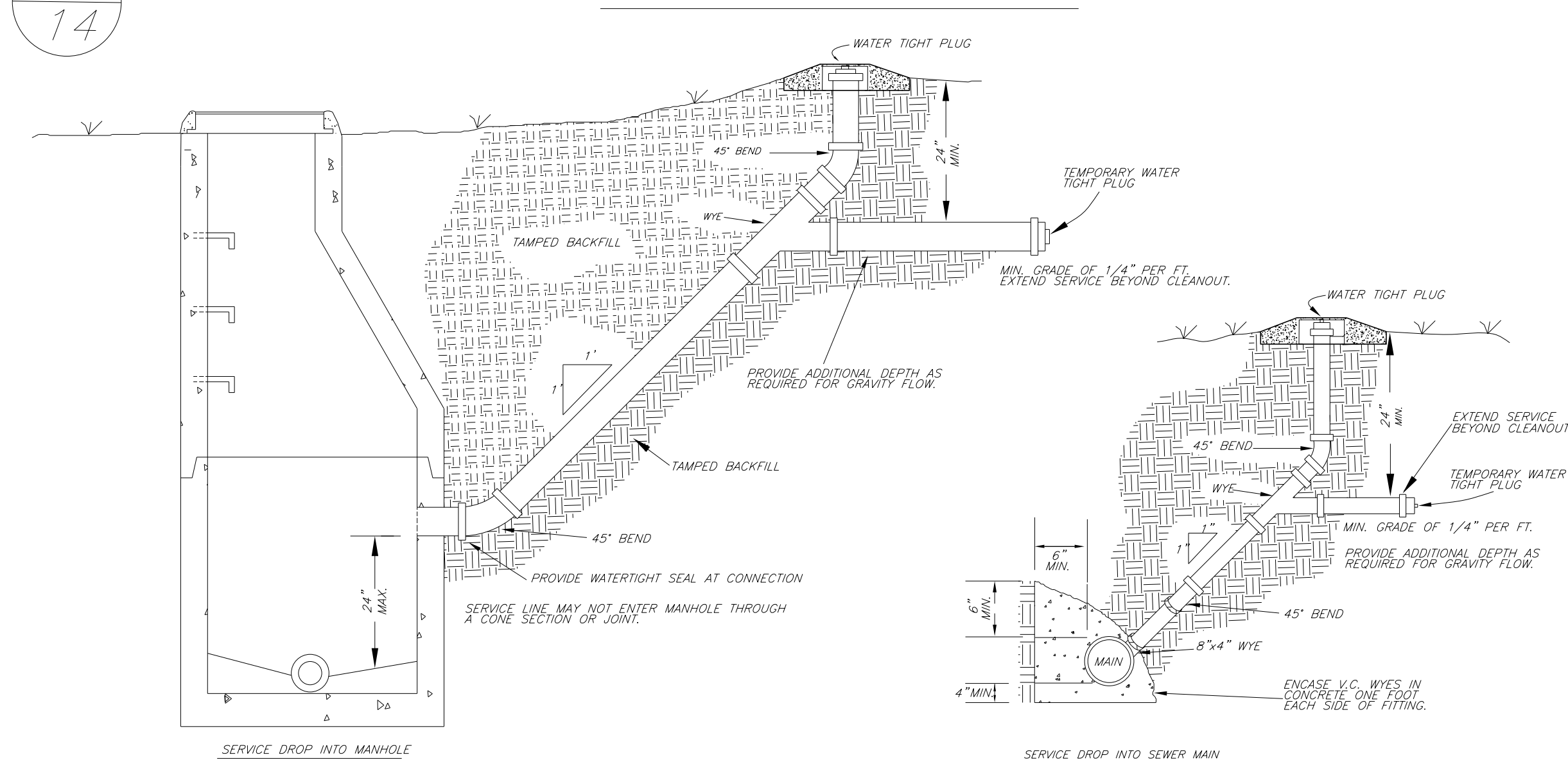
# SS 13 MAIN LINE CONNECTION TO EXISTING MANHOLE



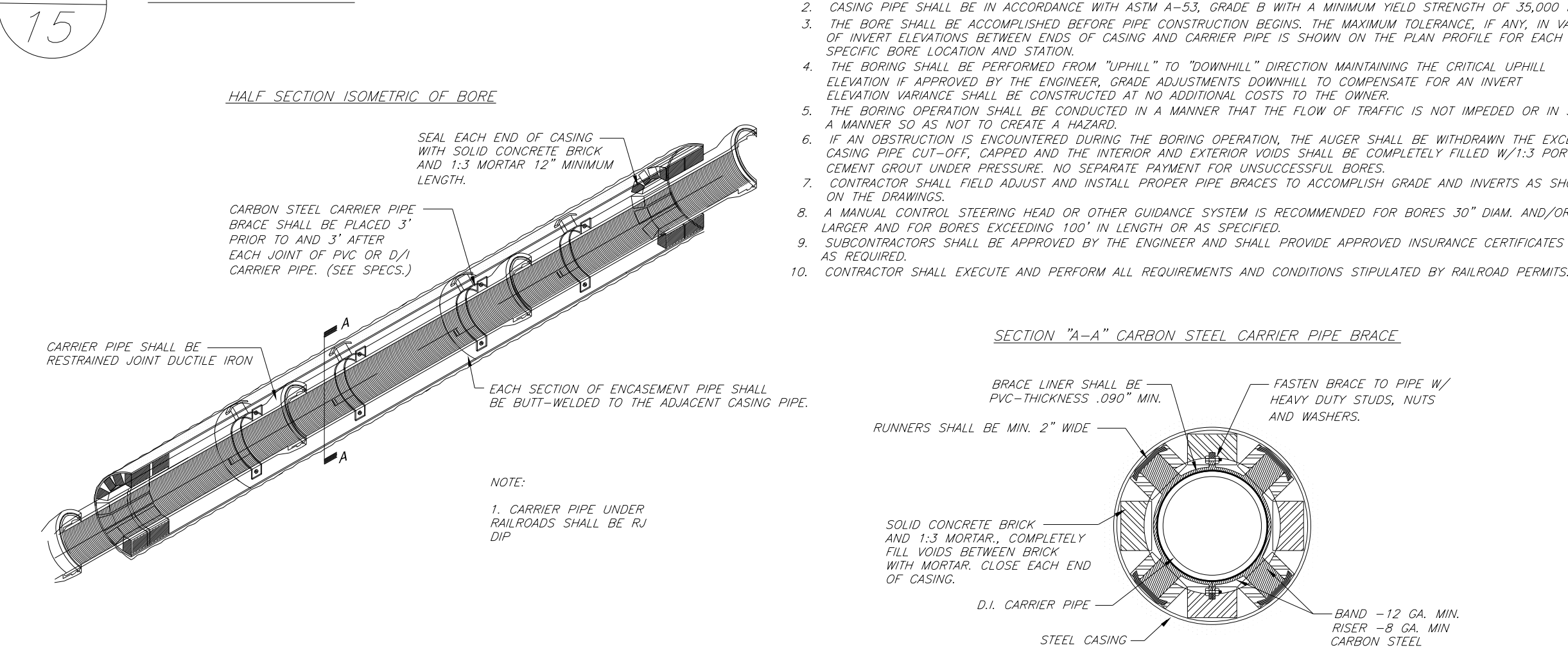
# SS 5 STANDARD SERVICE CONNECTION



# SS 14 DROP TYPE SERVICE CONNECTION



# SS 15 BORING DETAIL



DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

|                                                                            |        |                                    |       |
|----------------------------------------------------------------------------|--------|------------------------------------|-------|
| PROJECT REFERENCE NO.                                                      | U-5711 | SHEET NO.                          | UC-3B |
| DESIGNED BY:                                                               | DSJ    |                                    |       |
| DRAWN BY:                                                                  | PJ     |                                    |       |
| REVISED:                                                                   |        |                                    |       |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION                          |        | UTILITY CONSTRUCTION<br>PLANS ONLY |       |
| UTILITIES ENGINEERING SEC.<br>PHONE: (919) 707-6690<br>FAX: (919) 250-4151 |        | 24-Mar-2026                        |       |

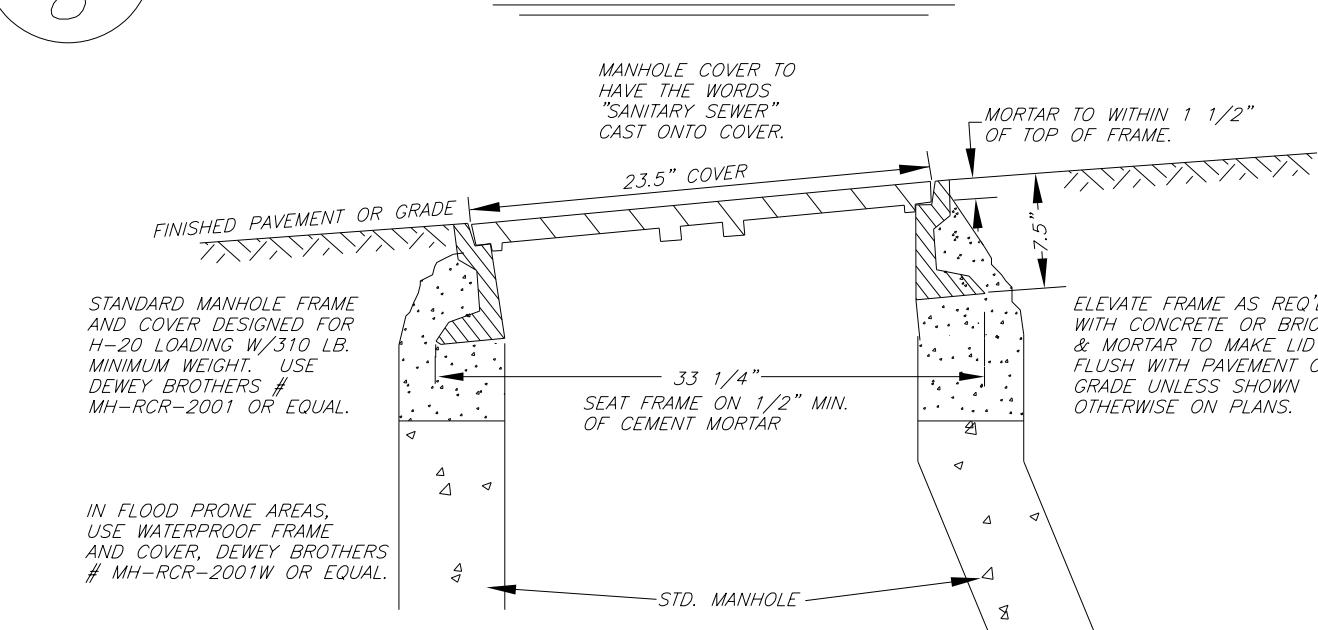
## UTILITY CONSTRUCTION

# SS 4 AIR TEST TABLE

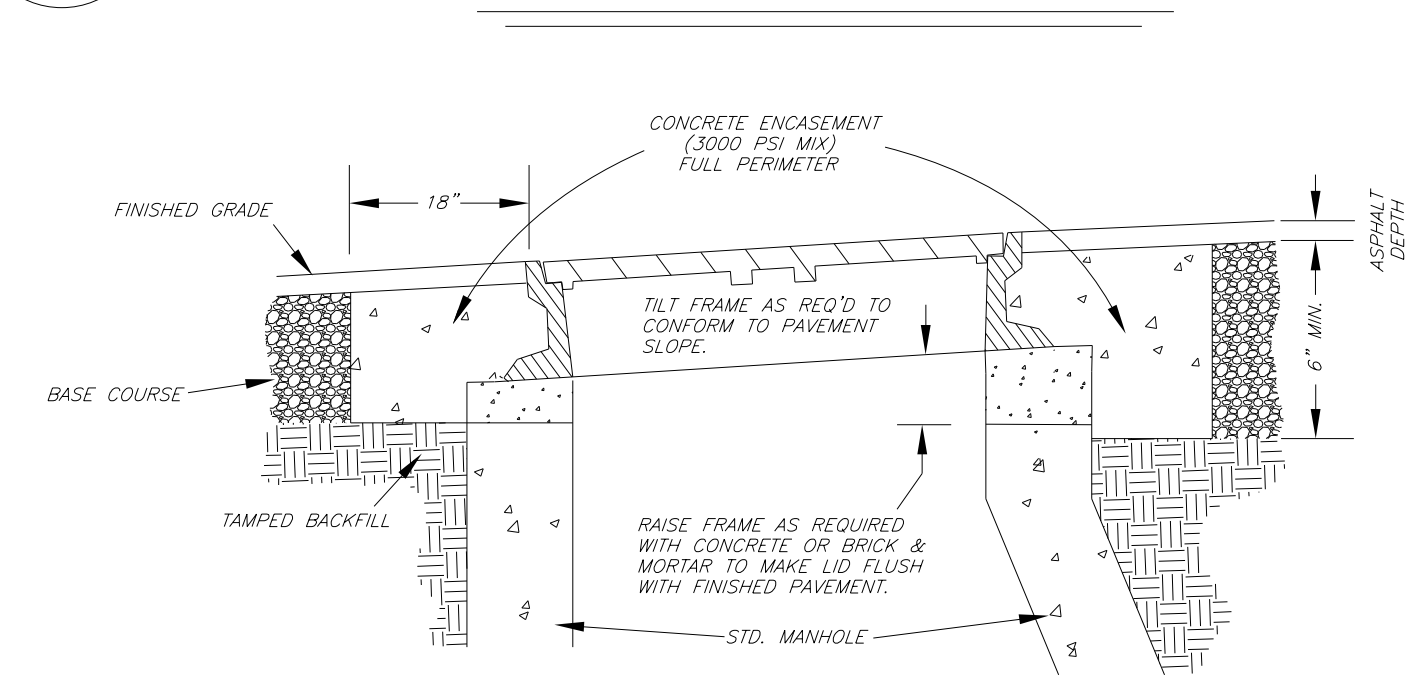
TIME (MIN:SEC) REQUIRED FOR PRESSURE DROP FROM 3 1/2 TO 2 1/2 PSIG WHEN TESTING ONE PIPE DIAMETER ONLY. INCREASE PRESSURE AS REQUIRED BY ENGINEER IF GROUNDWATER IS PRESENT.

| LENGTH OF LINE, FEET | PIPE DIAMETER, INCHES |      |      |      |      |       |       |       |       |
|----------------------|-----------------------|------|------|------|------|-------|-------|-------|-------|
|                      | 4                     | 6    | 8    | 10   | 12   | 15    | 18    | 21    | 24    |
| 25                   | 0:05                  | 0:11 | 0:18 | 0:23 | 0:27 | :32   | 0:36  | 0:45  | 0:54  |
| 50                   | 0:09                  | 0:21 | 0:36 | 0:45 | 0:54 | 1:03  | 1:12  | 1:30  | 1:48  |
| 75                   | 0:14                  | 0:32 | 0:54 | 1:23 | 1:21 | 1:35  | 1:48  | 2:15  | 2:42  |
| 100                  | 0:18                  | 0:42 | 1:12 | 1:30 | 1:48 | 2:06  | 2:24  | 3:00  | 3:36  |
| 125                  | 0:23                  | 0:53 | 1:30 | 1:53 | 2:15 | 2:38  | 3:00  | 3:45  | 4:30  |
| 150                  | 0:27                  | 1:03 | 1:48 | 2:15 | 2:42 | 3:09  | 3:36  | 4:30  | 5:24  |
| 175                  | 0:32                  | 1:14 | 2:06 | 2:38 | 3:09 | 3:41  | 4:12  | 5:15  | 6:18  |
| 200                  | 0:36                  | 1:24 | 2:24 | 3:00 | 3:36 | 4:12  | 4:48  | 6:00  | 7:12  |
| 225                  | 0:41                  | 1:35 | 2:42 | 3:23 | 4:03 | 4:44  | 5:24  | 6:45  | 8:06  |
| 250                  | 0:45                  | 1:45 | 3:00 | 3:45 | 4:30 | 5:15  | 6:00  | 7:30  | 9:00  |
| 275                  | 0:50                  | 1:56 | 3:18 | 4:08 | 4:57 | 5:47  | 6:36  | 8:15  | 9:54  |
| 300                  | 0:54                  | 2:06 | 3:36 | 4:30 | 5:24 | 6:18  | 7:12  | 9:00  | 10:48 |
| 350                  | 1:03                  | 2:27 | 4:12 | 5:15 | 6:18 | 7:21  | 8:24  | 10:30 | 12:36 |
| 400                  | 1:12                  | 2:48 | 4:48 | 6:00 | 7:12 | 8:24  | 9:36  | 12:00 | 14:24 |
| 450                  | 1:21                  | 3:09 | 5:24 | 6:45 | 8:06 | 9:27  | 10:48 | 13:30 | 16:12 |
| 500                  | 1:30                  | 3:30 | 6:00 | 7:30 | 9:00 | 10:30 | 12:00 | 15:00 | 18:00 |

# SS 8 MANHOLE FRAME & COVER ON NEW INSTALLATIONS



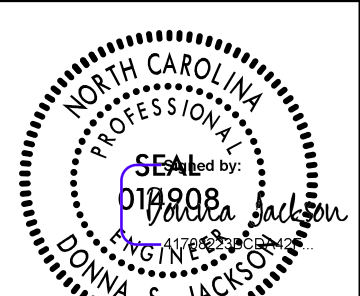
# SS 12 MANHOLE FRAME & COVER ADJUSTMENT ON STREETS BEING RESURFACED



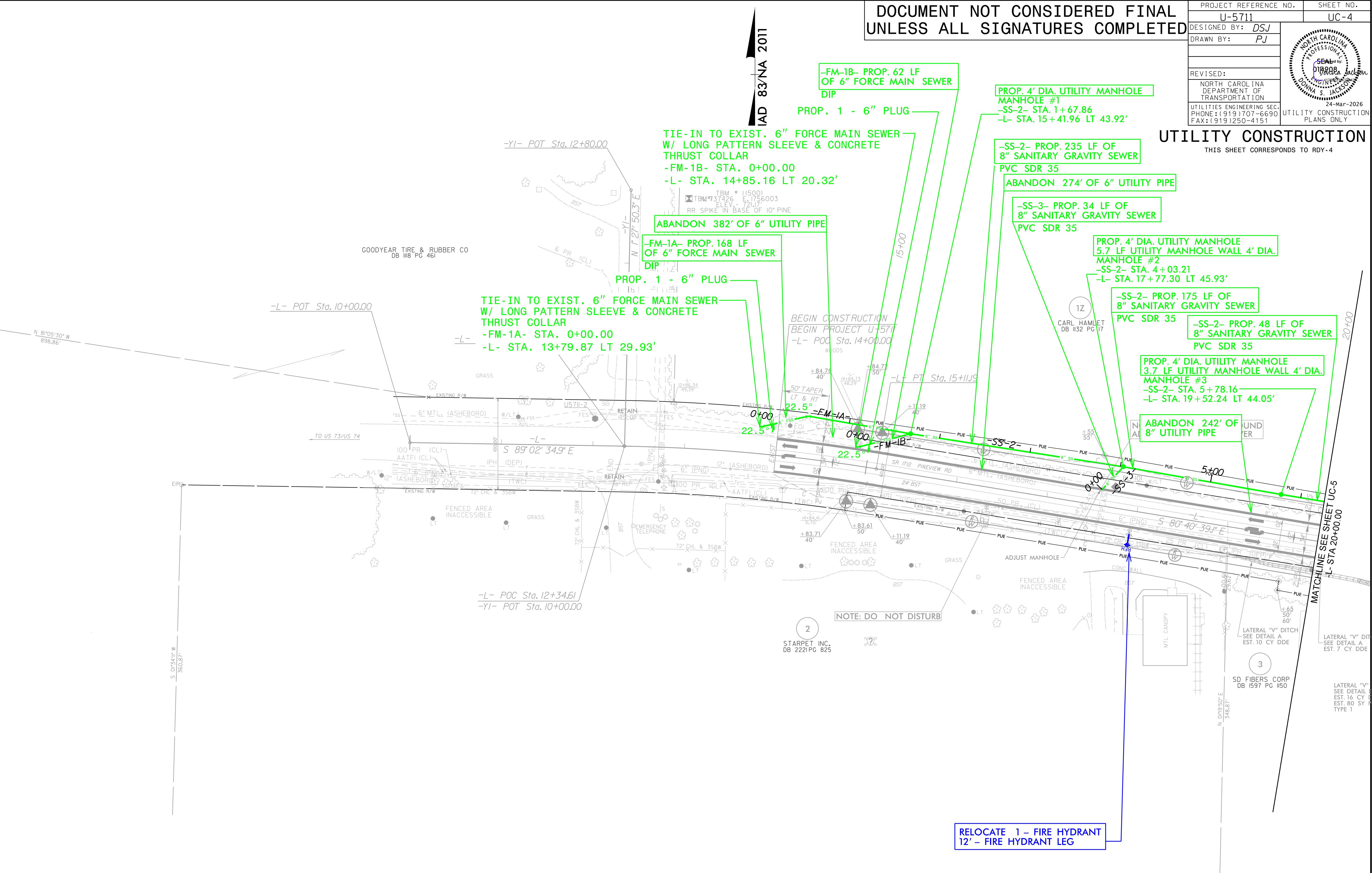
5/14/99

3:51:42 PM  
\\na11\p\35888\d0178801\U-5711\ut-rdy4\UC4-psd.dgn  
1:50 Dateplot

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

| PROJECT REFERENCE NO.                                                      | SHEET NO.                                                                          |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| U-5711                                                                     | UC-4                                                                               |
| DESIGNED BY: DSJ                                                           |  |
| DRAWN BY: PJ                                                               |                                                                                    |
| REVISED:                                                                   |                                                                                    |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION                          | UTILITY CONSTRUCTION<br>PLANS ONLY                                                 |
| UTILITIES ENGINEERING SEC.<br>PHONE: (919) 707-6690<br>FAX: (919) 250-4151 |                                                                                    |

UTILITY CONSTRUCTION  
THIS SHEET CORRESPONDS TO RDY-4



5/14/99

CENTERLINE NS MP M-22.57-EM  
(CROSSING \*772-466M)  
8" SEWER LINE -SS-2- STA. 10+96.73  
-RR- STA. 12+36.92  
LAT. 35.77221  
LONG. -79.81874

161 LF OF 16" ENCASEMENT PIPE  
161 LF OF 16" BORE AND JACK  
0.25" THICKNESS  
SEAL NEW ENDS OF CASING WITH  
8" BRICK MANSORY.

-SS-2- PROP. 204 LF OF  
8" SANITARY GRAVITY SEWER  
RJDIP

ABANDON 1 - UTILITY MANHOLE

RECEIVING PIT 10'WX15'X10'D

PROP. 4' DIA. UTILITY MANHOLE  
3.7 LF UTILITY MANHOLE WALL 4' DIA.  
MANHOLE #5  
-SS-2- STA. 10+03.23  
-L- STA. 23+57.49 RT 3.40'

-SS-2- PROP. 66 LF OF  
8" SANITARY GRAVITY SEWER  
PVC SDR 35  
CARL HAMLET  
DB 1132 PG 17

PROP. 4' DIA. UTILITY MANHOLE  
4.5 LF UTILITY MANHOLE WALL 4' DIA.  
MANHOLE #4  
-SS-2- STA. 9+37.30  
-L- STA. 23+11.38 LT 43.73'

-SS-2- PROP. 311 LF OF  
8" SANITARY GRAVITY SEWER  
PVC SDR 35

ABANDON 382' OF 8" UTILITY PIPE

ABANDON 1 - UTILITY MANHOLE

PROP. 1 - FIRE HYDRANT  
1 - 12" TAPPING SLEEVE & VALVE  
19' - FIRE HYDRANT LEG

REMOVE FIRE HYDRANT

#### WATER LINE SEQUENCING

1. PLACE WL-2 AND WL-3B INTO SERVICE AFTER APPROVAL OF ALL TESTING AND FLUSHING.
2. CONNECT WATER SERVICES TO WL-2.
3. ABANDON 12" WATERLINE FROM SYLVAN DRIVE TO -L- 26+64.52
4. INSTALL AND PLACE INTO SERVICE WL-3A AFTER APPROVAL OF ALL TESTING AND FLUSHING.
5. ABANDON 6" WATER LINE FROM BANKS STREET TO SYLVAN DRIVE.
6. INSTALL AND PLACE INTO SERVICE WL-5 AFTER APPROVAL OF ALL TESTING AND FLUSHING.

SEE SHEET UC-10 & UC-11 FOR SEWER PROFILE

SEE SHEET UC-8 & UC-9 FOR WATER PROFILE

#### NOTE:

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 4500 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

#### CASING PIPE NOTES:

1. LOCATIONS OF LAUNCHING AND RECEIVING PITS OTHER THAN AS SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER AND NCDOT PRIOR TO THEIR EXCAVATION.
2. CASING IN RAILROAD RIGHT OF WAY MUST BE INSTALLED BY BORE AND JACK.
3. SEAL ENDS OF CASING WITH 8" BRICK MASONRY.
4. FILL EXIST. 50' OF 18" STL. ENCASEMENT AND CARRIER PIPE WITH GROUT; OR CLASS III, CLASS IV OR CLASS V SELECT MATERIALS.

ABANDON 50' OF 18" UTILITY PIPE  
GROUT FILLED

ABANDON 205' OF 8" UTILITY PIPE  
GROUT FILLED

PROP. 4' DIA. UTILITY MANHOLE  
0.4 LF UTILITY MANHOLE WALL 4' DIA.  
MANHOLE #6  
-SS-2- STA. 12+07.26  
-L- STA. 25+61.27 RT 3.26'

LAUNCHING PIT 10'WX30'X7'D

-SS-2- PROP. 29 LF OF  
8" SANITARY GRAVITY SEWER  
PVC SDR 35

TIE TO EX. 4' DIA. UTILITY MANHOLE #7  
-SS-2- STA. 12+35.76  
-L- STA. 25+88.76 LT 4.32'

TIE-IN TO EX. 2" WATER LINE  
W/COMPRESSION SLEEVE

ABANDON 35' OF  
10" UTILITY PIPE

PROP. 1 - 6" VALVE

PROP. 1 - 12" VALVE

INSET A  
SEE SHEET UC-5A

RELOCATE 1- WATER METER  
13' - WATER SERVICE LINE  
3/4"

RELOCATE 3- WATER METER  
38' - WATER SERVICE LINE  
3/4"

TIE-IN TO EX. 12" WATER  
LINE W/LONG PATTERN  
SLEEVE & CONCRETE THRUST  
COLLAR  
-WL-2- STA. 12+37.11  
-L- STA. 26+26.34 RT 17.06'

PROP. 1 - 12" PLUG

PROP. 1 - FIRE HYDRANT  
1 - 6" VALVE  
23' - FIRE HYDRANT LEG  
12" X 6" TEE

REMOVE  
FIRE  
HYDRANT

-WL-2- PROP. 136 LF OF 12" WATER LINE  
RJDIP

ABANDON 136' OF  
12" UTILITY PIPE

ABANDON 25' OF  
6" UTILITY PIPE

PROP. 1 -  
6" PLUG

6" INSERTION VALVE

PROP. 1 - 6" PLUG

PROP. 1 - 2" TAP

PROP. 49 LF 2" WATER LINE

-WL-3A- PROP. 83 LF OF 6" WATER LINE  
RJDIP

PROP. 1 - 2" VALVE

PROP. 1 - 12" X 6" TEE

PROP. 1 - 12" X 16" REDUCER

PROP. 4' DIA. UTILITY MANHOLE  
1.4 LF UTILITY MANHOLE WALL 4' DIA.  
DOGHOUSE MANHOLE #8  
-SS-4- STA. 1+00.00  
-L- STA. 32+85.33 LT 32.51'

-SS-4- PROP. 28 LF OF  
10" SANITARY GRAVITY SEWER  
DIP

PROP. 4' DIA. UTILITY MANHOLE  
5.0 LF UTILITY MANHOLE WALL 4' DIA.  
MANHOLE #9  
-SS-4- STA. 1+27.59  
-L- STA. 32+85.40 LT 4.92'

-SS-4- PROP. 26 LF OF  
10" SANITARY GRAVITY SEWER  
DIP

REMOVE  
FIRE  
HYDRANT

REMOVE  
WATER  
METER

ABANDON 637' OF  
6" UTILITY PIPE

PROP. 1 - FIRE HYDRANT  
1 - 6" VALVE  
14' - FIRE HYDRANT LEG  
16" X 6" TEE

-WL-2- PROP. 606 LF OF 16" WATER LINE  
DIP

PROP. 5 - WATER METER  
160' - WATER SERVICE LINE  
3/4"

PROP. 1 - WATER METER  
7' - WATER SERVICE LINE  
3/4"

PROP. 1 - 12" X 6" TEE

-WL-3B- PROP. 37 LF OF 6" WATER LINE  
RJDIP

TIE-IN TO EX. 6" WATER LINE W/LONG  
PATTERN SLEEVE & CONCRETE THRUST COLLAR  
-WL-3B- STA. 0+37.21  
-Y2- STA. 11+93.85 RT 7.19'

PROP. 4' DIA. UTILITY MANHOLE  
5.8 LF UTILITY MANHOLE WALL 4' DIA.  
DOGHOUSE MANHOLE #10  
-SS-4- STA. 1+54.07  
-SS-5- STA. 0+00.00  
-L- STA. 33+06.18 RT 11.50'

-SS-5- PROP. 35 LF OF  
8" SANITARY GRAVITY SEWER  
DIP

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

| PROJECT REFERENCE NO.                                                      | SHEET NO.                                         |
|----------------------------------------------------------------------------|---------------------------------------------------|
| U-5711                                                                     | UC-5                                              |
| DESIGNED BY: DSJ                                                           |                                                   |
| DRAWN BY: PJ                                                               |                                                   |
| REVISED:                                                                   |                                                   |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION                          | 24-Mar-2026<br>UTILITY CONSTRUCTION<br>PLANS ONLY |
| UTILITIES ENGINEERING SEC.<br>PHONE: (919) 707-6690<br>FAX: (919) 250-4151 |                                                   |

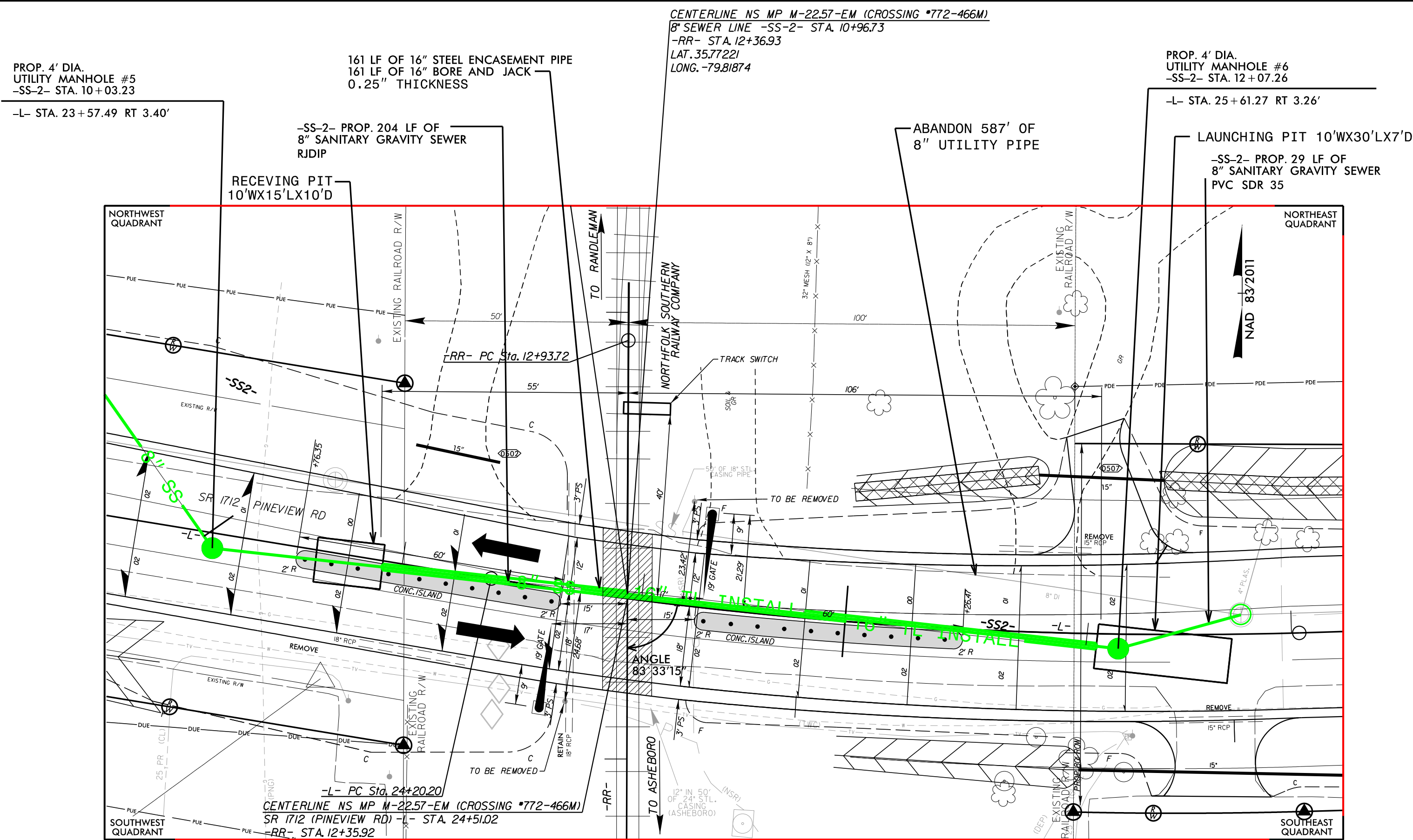
## UTILITY CONSTRUCTION

THIS SHEET CORRESPONDS TO RDY-5

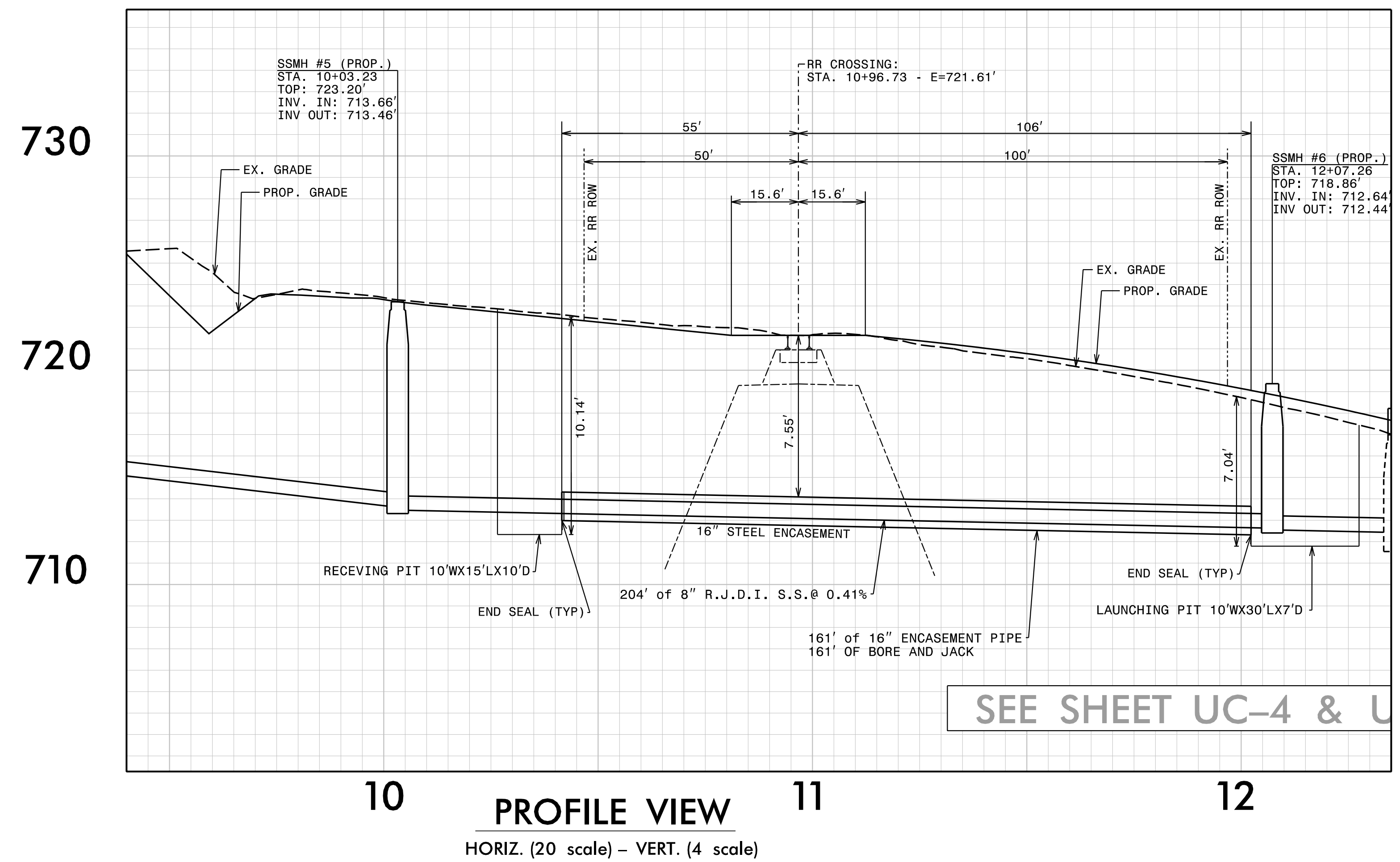
MATCHLINE -L- STA. 34+00.00 SEE SHEET NO. UC-6

5/14/99

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PLAN VIEW  
INSET A (20 scale)



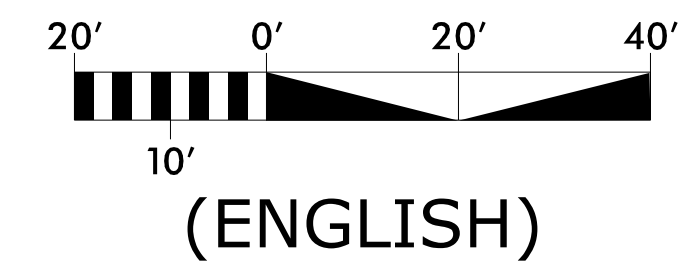
10 PROFILE VIEW 11 12  
HORIZ. (20 scale) - VERT. (4 scale)

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

| PROJECT REFERENCE NO.                                                | SHEET NO.                       |
|----------------------------------------------------------------------|---------------------------------|
| U-5711                                                               | UC-5A                           |
| DESIGNED BY: DSJ                                                     |                                 |
| DRAWN BY: PJ                                                         |                                 |
| REVISED:                                                             |                                 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION                          |                                 |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

UTILITY CONSTRUCTION

THIS SHEET CORRESPONDS TO RDY-5



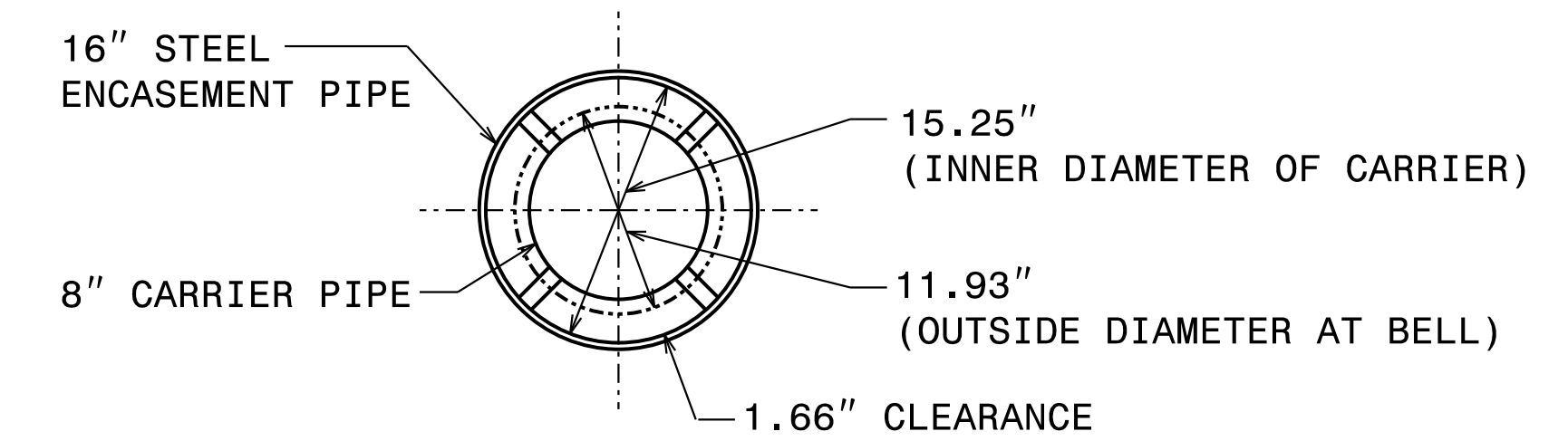
UTILITY CONSTRUCTION  
RAILROAD CROSSING DETAIL

ASHEBORO, NC - #772-466M  
MILE POST NS M-22.57-EM  
PINE VIEW RD AT-GRADE CROSSING

NOTE:  
PAY ITEMS ON THIS SHEET HAVE BEEN  
ACCOUNTED FOR ON UC-5

CASING PIPE NOTES:

1. LOCATIONS OF LAUNCHING AND RECEIVING PITS OTHER THAN AS SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER AND NCDOT PRIOR TO THEIR EXCAVATION.
2. CASING IN RAILROAD RIGHT OF WAY MUST BE INSTALLED BY BORE AND JACK.
3. SEAL ENDS OF CASING WITH 8" BRICK MASONRY.
4. FILL EXIST. 50' OF 18" STL. ENCASEMENT AND CARRIER PIPE WITH GROUT; OR CLASS III, CLASS IV OR CLASS V SELECT MATERIALS.



CROSS SECTION OF CASING DETAIL

5/14/99

SEE SHEET UC-11 FOR SEWER PROFILE  
SEE SHEET UC-9 FOR WATER PROFILE

NOTE:  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3600 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

#### WATER LINE SEQUENCING

1. PLACE WL-2 AND WL-3B INTO SERVICE AFTER APPROVAL OF ALL TESTING AND FLUSHING.
2. CONNECT WATER SERVICES TO WL-2.
3. ABANDON 12\* WATERLINE FROM SYLVAN DRIVE TO -L- 26+64.52
4. INSTALL AND PLACE INTO SERVICE WL-3A AFTER APPROVAL OF ALL TESTING AND FLUSHING.
5. ABANDON 6\* WATER LINE FROM BANKS STREET TO SYLVAN DRIVE.
6. INSTALL AND PLACE INTO SERVICE WL-5 AFTER APPROVAL OF ALL TESTING AND FLUSHING.

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

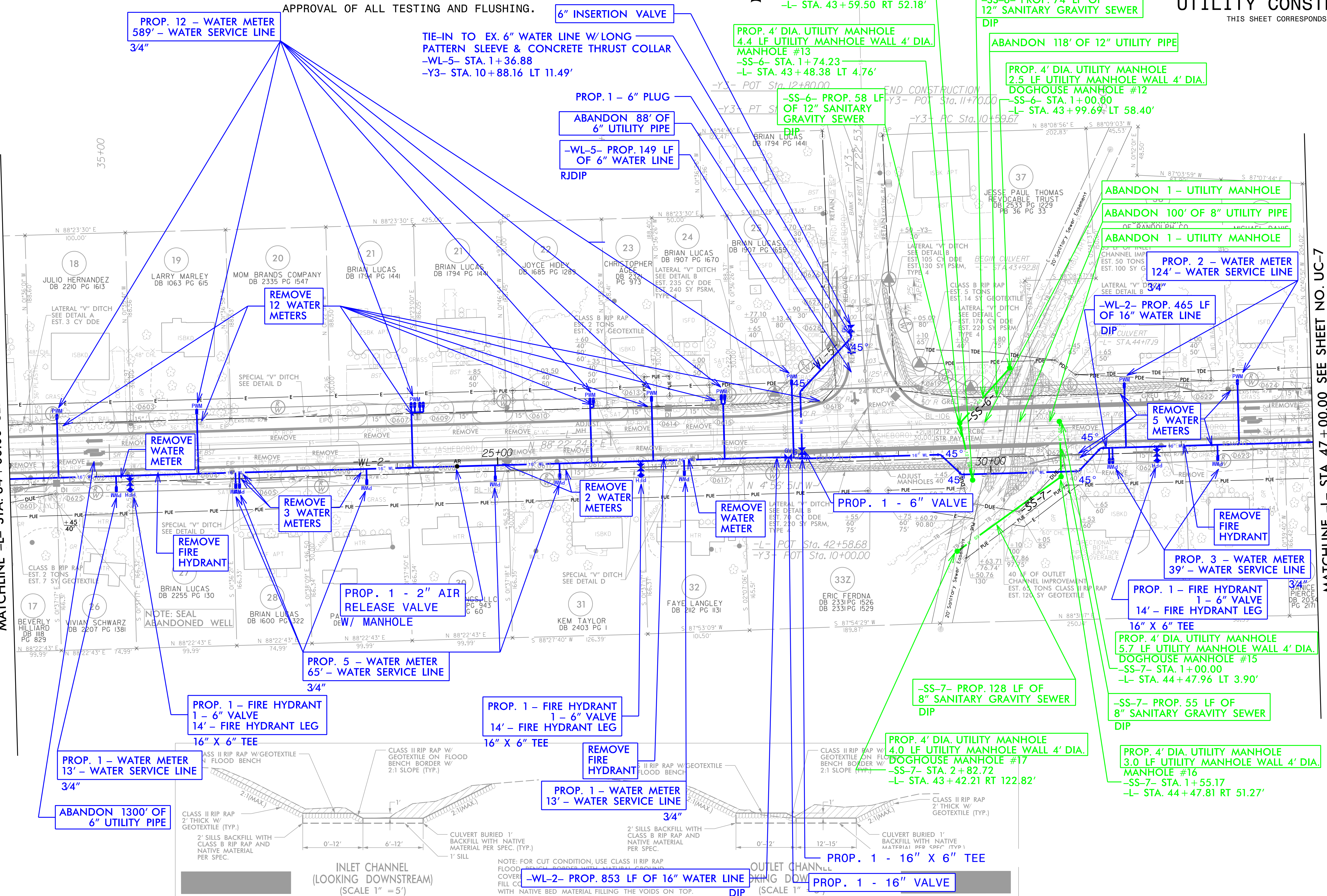
PROP. 23 - SANITARY SEWER CLEAN-OUTS  
280' SEWER SERVICE LINES  
APPROXIMATE NUMBER OF SEWER CLEANOUTS FROM ASHBORO GIS WERE NOT LOCATED IN FS FILE.

| PROJECT REFERENCE NO.                                                      | SHEET NO.                          |
|----------------------------------------------------------------------------|------------------------------------|
| U-5711                                                                     | UC-6                               |
| DESIGNED BY: DSJ                                                           |                                    |
| DRAWN BY: PJ                                                               |                                    |
| REVISED:                                                                   |                                    |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION                          | UTILITY CONSTRUCTION<br>PLANS ONLY |
| UTILITIES ENGINEERING SEC.<br>PHONE: (919) 707-6690<br>FAX: (919) 250-4151 | 24-Mar-2026                        |

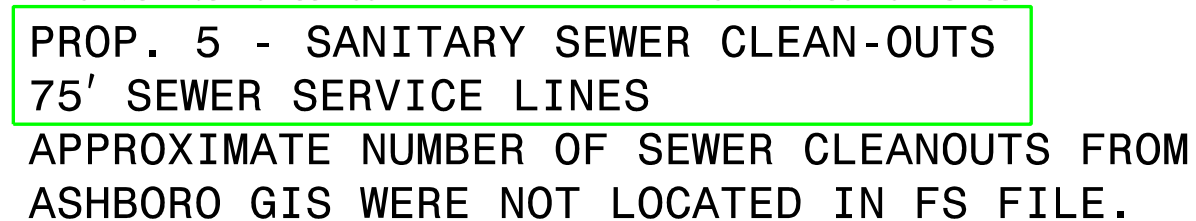
UTILITY CONSTRUCTION  
THIS SHEET CORRESPONDS TO RDY-6

MATCHLINE -L- STA. 34 + 00.00 SEE SHEET NO. UC-5

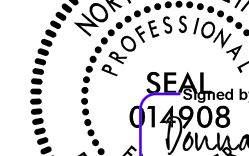
MATCHLINE -L- STA. 47 + 00.00 SEE SHEET NO. UC-7



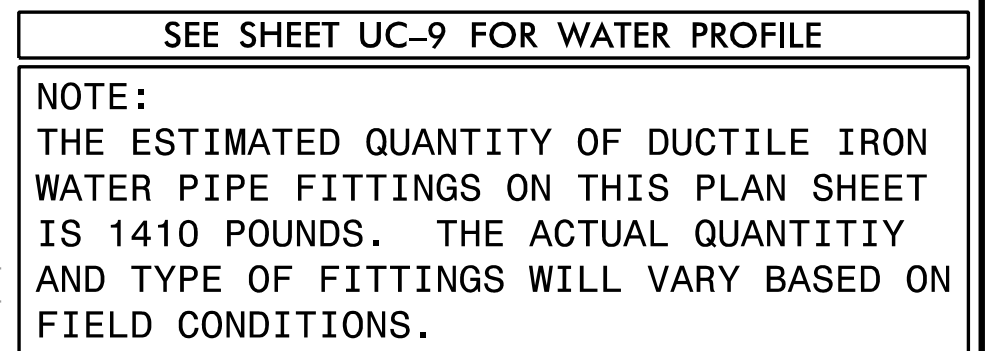
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NAD 83/NA 2011

|                                                                                                                                     |  |                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO.                                                                                                               |  | SHEET NO.                                                                           |  |
| U-5711                                                                                                                              |  | UC-7                                                                                |  |
| DESIGNED BY: <i>DSJ</i>                                                                                                             |  |  |  |
| DRAWN BY: <i>PJ</i>                                                                                                                 |  |                                                                                     |  |
|                                                                                                                                     |  |                                                                                     |  |
|                                                                                                                                     |  |                                                                                     |  |
|                                                                                                                                     |  |                                                                                     |  |
| REVISED:                                                                                                                            |  | 24-Mar-2026<br>UTILITY CONSTRUCTION<br>PLANS ONLY                                   |  |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION<br><br>UTILITIES ENGINEERING SEC.<br>PHONE: (919) 707-6690<br>FAX: (919) 250-4151 |  |                                                                                     |  |

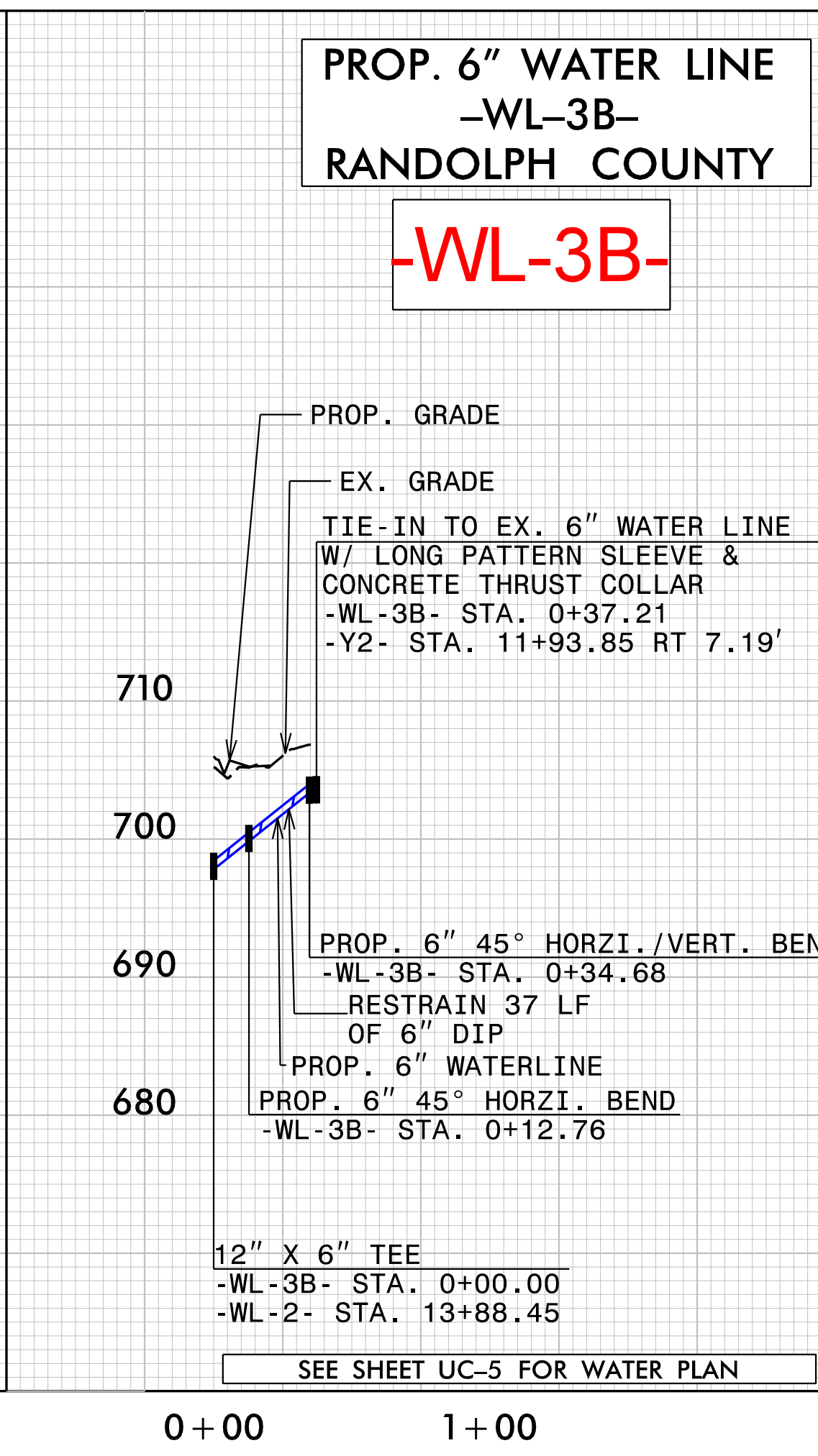
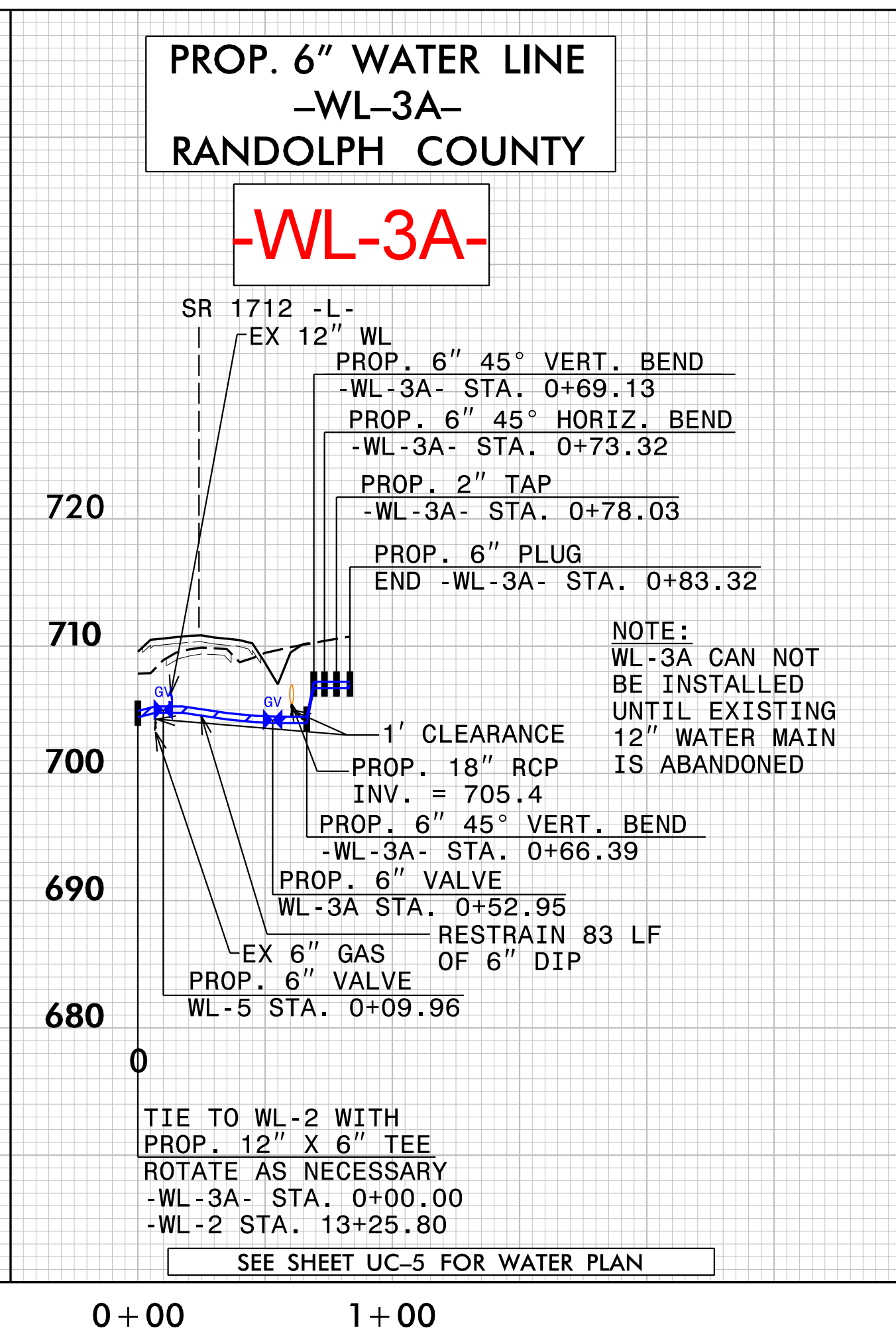
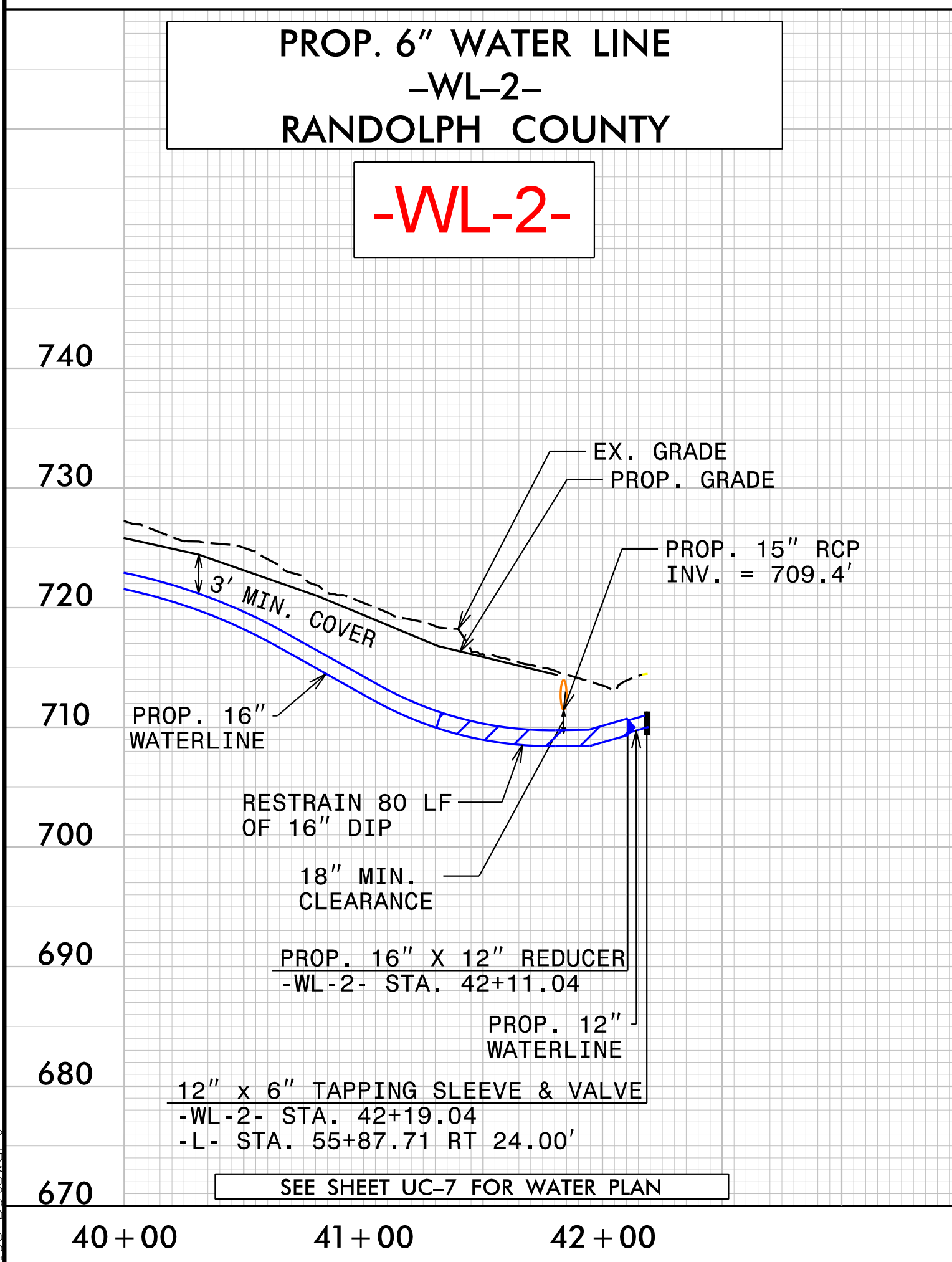
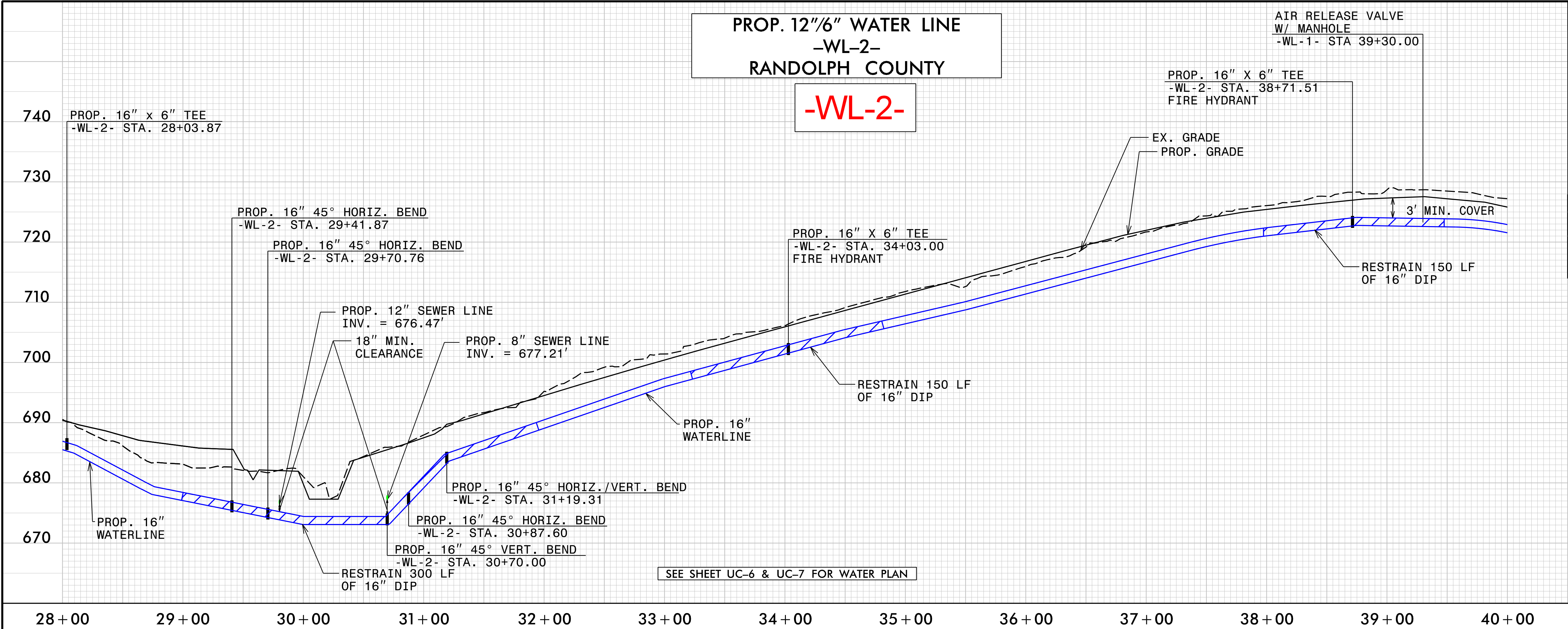
THIS SHEET CORRESPONDS TO RDY-7

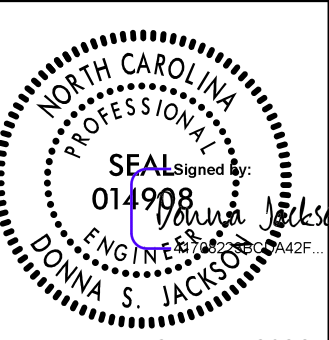




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|                                                                            |                                                                                                             |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| PROJECT REFERENCE NO.                                                      | SHEET NO.                                                                                                   |
| U-5711                                                                     | UC-9                                                                                                        |
| DESIGNED BY: DSJ                                                           |                           |
| DRAWN BY: PJJ                                                              |                                                                                                             |
| REVISED:                                                                   |                                                                                                             |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION                          |                                                                                                             |
| UTILITIES ENGINEERING SEC.<br>PHONE: (919) 707-6690<br>FAX: (919) 250-4151 |                                                                                                             |
| UTILITY CONSTRUCTION<br>PLANS ONLY                                         |                                                                                                             |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |                                                                                                             |
| Prepared in the<br>Office of:                                              | M<br>MOTT<br>MACDONALD<br>930 Main Campus Drive, Suite 200<br>Raleigh, NC 27606<br>www.mottmac.com/americas |
| <b>UTILITY<br/>CONSTRUCTION</b>                                            |                                                                                                             |

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700  
690  
680  
670

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PROP. 6" FORCED SANITARY SEWER  
FM-1A  
RANDOLPH COUNTY

-FM-1A-

SSMH #1 (PROP.)  
STA. 1+67.86  
TOP: 735.40'  
INV. IN: 731.69'  
INV. IN: 730.51'  
INV OUT: 729.85'

SSMH #2 (PROP.)  
STA. 4+03.21  
TOP: 740.44'  
INV. IN: 728.92'  
INV. IN: 731.53'  
INV OUT: 728.72'

SSMH #3 (PROP.)  
STA. 5+78.16  
TOP: 735.69'  
INV. IN: 726.15'  
INV OUT: 725.95'

PROP. 8" SANITARY SEWER  
-SS-2-  
RANDOLPH COUNTY

-SS-2-

SSMH #5 (PROP.)  
STA. 10+03.23  
TOP: 723.20'  
INV. IN: 713.66'  
INV OUT: 713.46'

SSMH #4 (PROP.)  
STA. 9+37.30  
TOP: 725.53'  
INV. IN: 715.27'  
INV OUT: 715.07'

SSMH #6 (PROP.)  
STA. 12+07.26  
TOP: 718.86'  
INV. IN: 712.64'  
INV OUT: 712.44'

SSMH #7 (EX.)  
STA. 12+35.76  
UDJUSTED TOP: 717.62'  
EX. TOP: 716.99'  
INV. IN: 712.44'  
INV OUT: 711.60'

PROP. 6" 22.5° HORIZ. BEND  
-FM-1A- STA. 0+02.54

PROP. 6" 22.5° HORIZ. BEND  
-FM-1A- STA. 0+55.44

TIE-IN TO EX. 6" FORCE SEWER MAIN  
W/ LONG PATTERN SLEEVE &  
CONCRETE THRUST COLLAR  
-FM-1A- STA. 0+00.00  
-L- STA. 13+79.87 LT 29.93'

SEE SHEET UC-4 & UC-5 FOR SEWER PLAN

RR CROSSING: ---E=721.61'  
STA. 10+96.73

EX. 8" GAS LINE

55' 106'  
50' 100'  
15.6' 15.6'

66' of 8" PVC S.S.@ 2.31%  
RECEIVING PIT 10'WX15'LX10'D  
END SEAL (TYP)  
204' of 8" R.J.D.I. S.S.@ 0.41%

LAUNCHING PIT  
10'WX30'LX7'D

161' of 16" ENCASEMENT PIPE  
161' OF BORE AND JACK

29' of 8" PVC S.S.@ 0.43%

PROP. 6" FORCED SANITARY SEWER  
FM-1B-  
RANDOLPH COUNTY

-FM-1B-

SSMH #1 (PROP.)  
STA. 0+62.06  
TOP: 735.40'  
INV. IN: 731.69'  
INV. IN: 730.51'  
INV OUT: 729.85'

EX. GRADE

U/G POWER  
(2" @ 3' DEEP  
+ 1' CLEARANCE)

-FM-1A-  
-SS-2-

RESTRAIN 62 LF  
OF 6" DIP  
62' of 6" F.S.S. @ 0.67%

PROP. 6" 45° HORIZ. BEND  
-FM-1B- STA. 0+02.53

TIE-IN TO EX. 6" FORCE SEWER MAIN  
W/ LONG PATTERN SLEEVE &  
CONCRETE THRUST COLLAR  
-FM-1B- STA. 0+00.00  
-L- STA. 14+85.16 LT 20.32'

SEE SHEET UC-4 FOR SEWER PLAN

PROP. 8" SANITARY SEWER  
-SS-3-  
RANDOLPH COUNTY

-SS-3-

SSMH #2 (PROP.)  
STA. 0+34.04  
TOP: 740.44'  
INV. IN: 728.92'  
INV. IN: 731.53'  
INV OUT: 728.72'

EX. GRADE

U/G POWER  
(2" @ 3' DEEP + 1' CLEARANCE)

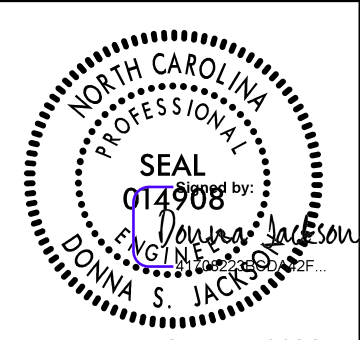
PROP. ROADBED  
4" (SW)  
2" (S)  
STUB (W)

BOT 6" (W) [REM]  
TOP 6" (NW) [REM]

-SS-2-  
-SS-3-

34' of 8"  
PVC S.S.@ 1.00%

SEE SHEET UC-4 FOR SEWER PLAN

|                                                                            |     |                                                                                                              |  |
|----------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO.<br>U-5711                                            |     | SHEET NO.<br>UC-10                                                                                           |  |
| DESIGNED BY:                                                               | DSJ |                            |  |
| DRAWN BY:                                                                  | PJJ |                                                                                                              |  |
| REVISED:                                                                   |     |                                                                                                              |  |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION                          |     | 24-Mar-2026<br>UTILITY CONSTRUCTION<br>PLANS ONLY                                                            |  |
| UTILITIES ENGINEERING SEC.<br>PHONE: (919) 707-6690<br>FAX: (919) 250-4151 |     | UTILITY CONSTRUCTION<br>PLANS ONLY                                                                           |  |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |     |                                                                                                              |  |
| Prepared in the<br>Office of:                                              |     | <b>M</b><br>930 Main Campus Drive, Suite 200<br>Raleigh, NC 27606<br>MOTT MACDONALD www.mottmac.com/americas |  |
| <b>UTILITY<br/>CONSTRUCTION</b>                                            |     |                                                                                                              |  |

740  
730  
720  
710  
700  
690  
740  
730  
720  
710  
700  
690  
680

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00

0+00 1+00

0+00 1+00

5/14/99

PROP. 10" SANITARY SEWER  
-SS-4-  
RANDOLPH COUNTY

-SS-4-

"DOGHOUSE"  
SSMH #8  
STA. 1+00.00  
TOP: 689.50'  
INV IN: 682.35'  
INV OUT: 682.15'

SSMH #9 (PROP.)  
STA. 1+27.59  
TOP: 692.80'  
(W) INV IN: 683.24'  
(N) INV IN: 682.06'  
(S) INV OUT: 681.86'

"DOGHOUSE"  
SSMH #10  
STA. 1+54.07  
TOP: 692.84'  
(NW) INV IN: 681.13'  
(NE) INV IN: 682.64'  
(S) INV OUT: 680.96'

EX. 10" V.C. SANITARY SEWER  
26' of 10" S.S. @ 3.37%  
28' of 10" S.S. @ 0.40%  
EX. 10" V.C. SANITARY SEWER

SEE SHEET UC-5 FOR SEWER PLAN

0+00 1+00 2+00

PROP. 8" SANITARY SEWER  
-SS-5-  
RANDOLPH COUNTY

-SS-5-

"DOGHOUSE"  
SSMH #10  
STA. 0+00.00  
TOP: 692.84'  
(NW) INV IN: 681.13'  
(NE) INV IN: 682.64'  
(S) INV OUT: 680.96'

SSMH #11 (PROP.)  
STA. 0+34.90  
TOP: 693.41'  
(E) INV IN: 684.63'  
(SW) INV OUT: 683.30'

PROP. GRADE  
EX. GRADE  
PROP. 36" RCP  
INV. = 685.08'  
18" MIN.  
CLEARANCE  
EX. UNK. SIZE/TYPE  
SANITARY SEWER  
35' of 8" S.S. @ 2.22%  
EX. 10" V.C. SANITARY SEWER  
INV OUT: 680.96

SEE SHEET UC-5 FOR SEWER PLAN

0+00 1+00 2+00

PROP. 12" SANITARY SEWER  
-SS-6-  
RANDOLPH COUNTY

-SS-6-

"DOGHOUSE"  
SSMH #12  
STA. 1+00.00  
TOP: 685.75'  
INV IN: 677.43'  
INV OUT: 677.23'

SSMH #13 (PROP.)  
STA. 1+74.23  
TOP: 687.10'  
(NE) INV IN: 676.95'  
(W) INV IN: 678.17'  
(S) INV OUT: 676.75'

"DOGHOUSE"  
SSMH #14  
STA. 2+32.26  
TOP: 685.75'  
INV IN: 676.45'  
INV OUT: 676.25'

EX. GRADE  
PROP. GRADE  
PROP. -WL-2- 16" WATER LINE  
E=675.18  
EX. 12" V.C. SANITARY SEWER  
74' of 12" S.S. @ 0.40%  
58' of 12" S.S. @ 0.57%  
EX. 12" V.C. SANITARY SEWER

SEE SHEET UC-6 FOR SEWER PLAN

0+00 1+00 2+00

PROP. 8" SANITARY SEWER  
-SS-7-  
RANDOLPH COUNTY

-SS-7-

"DOGHOUSE"  
SSMH #15  
STA. 1+00.00  
TOP: 689.07'  
INV IN: 677.61'  
INV OUT: 677.41'

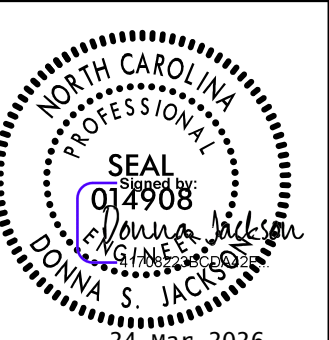
PROP. -WL-2- 16" WATER LINE  
E=674.42'

SSMH #16 (PROP.)  
STA. 1+55.17  
TOP: 685.95'  
INV IN: 677.20'  
INV OUT: 677.00'

PROP. GRADE  
EX. GRADE  
PROP. GAS  
(2" @ 3' DEEP + 1' CLEARANCE)  
EX. 12" V.C. SANITARY SEWER  
128' of 8" S.S. @ 0.40%  
55' of 8" S.S. @ 0.42%  
EX. 8" V.C. SANITARY SEWER

SEE SHEET UC-6 FOR SEWER PLAN

0+00 1+00 2+00

|                                                                            |                                                                                                                    |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| PROJECT REFERENCE NO.                                                      | SHEET NO.                                                                                                          |
| U-5711                                                                     | UC-11                                                                                                              |
| DESIGNED BY: DSJ                                                           |                                  |
| DRAWN BY: PJJ                                                              |                                                                                                                    |
| REVISED:                                                                   |                                                                                                                    |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION                          |                                                                                                                    |
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| <b>UTILITY<br/>CONSTRUCTION</b>                                            |                                                                                                                    |

8:47:13 AM  
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usa-bstewar