

UTILITY CONSTRUCTION

THIS SHEET CORRESPONDS TO
ROADWAY SHEET 10

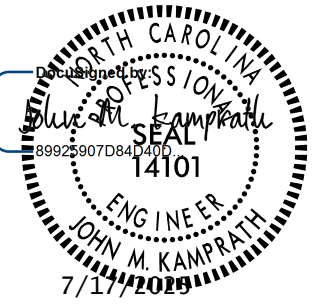
U-6187

FINAL UC-7

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIE COUNTY



ROADWAY DESIGN UNIT

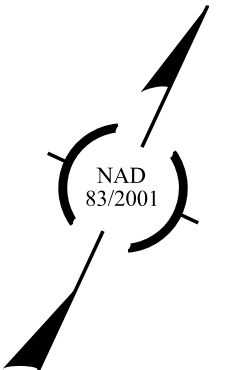


UTILITY CONSTRUCTION
PLANS ONLY

PREPARED BY



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCH LINE -Y1- STA 30+00.00 SEE SHEET UC-5

INSTALL 214 LF OF 4" FORCE MAIN SEWER

INSTALL BY BORE & JACK
85 LF - 6" ENCASEMENT PIPE
0.250" MINIMUM WALL THICKNESS
123 LF - 2" ROLLED FLEXIBLE SDR-9 CARRIER PIPE

END CONSTRUCTION
6" X 2" DI TAPPING SADDLE
SEE DETAIL, SHT. UC-3C
FM4 STA. 1+23.33 =
FM2 STA. 14+51.15
Y1 STA. 30+73.17

2" VALVE
ABANDON 213 LF OF 4" UTILITY PIPE

15+00

ABANDON 102 LF 8" UTILITY PIPE

INSTALL 137 LF 8" WATER LINE

8" X 90 DEG DI BEND
WL4 STA. 0+14.20
Y1 STA. 31+88.48, 58.5' RT.

8" X 8" X 8" DI TEE
8" VALVE
STD. 'U' CONNECTION
SEE DETAIL 2.08, SHT. UC-3A
WL3 STA. 3+49.87 =
WL4 STA. 0+00.00
Y1 STA. 31+82.70, 50.1' RT.
8" X 90 DEG DI BEND
WL4 STA. 0+08.30

RELOCATE WATER METER
7 LF 3/4" WATER SERVICE LINE

RECONNECT WATER METER
12 LF 1.5" WATER SERVICE LINE

BEGIN CONSTRUCTION
CONNECT TO EX. 2" FORCE MAIN SEWER
WITH COMPRESSION CONNECTION FITTING
FM4 STA. 0+00.00
Y1 STA. 30+81.61, 67.5' RT.

ABANDON 88 LF OF 2" UTILITY PIPE

END CONSTRUCTION
CONNECT TO EX. 8" PVC WATER LINE
W/ 8" X 90 DEG DI BEND
WL4 STA. 1+36.46
Y1 STA. 31+83.80, 57.2' RT.

W/ 8" X 90 DEG DI BEND
WL4 STA. 1+29.84
Y1 STA. 31+89.67, 57.2' RT.

4" X 22.5 DEG DI BEND
FM3 STA. 3+42.65
Y1 STA. 32+02.93, 41.3' LT.

END CONSTRUCTION
CONNECT TO EX. 4" PVC
FORCE MAIN SEWER WITH
4" X 22.5 DEG DI BEND
FM3 STA. 3+56.79
Y1 STA. 32+15.75, 35.4' LT.

RELOCATE WATER METER
109 LF 3/4" WATER SERVICE LINE

35+00

RELOCATE WATER METER
109 LF 3/4" WATER SERVICE LINE

INSTALL 915 LF OF 6" FORCE MAIN SEWER

6" X 45° DI BEND
FM2 STA. 22+44.07
Y1 STA. 38+82.60, 50.5' LT.

ABANDON 906 LF 6" UTILITY PIPE

-Y1- POT 37+90.31

20+00

INSTALL 880 LF 8" WATER LINE
RELOCATE WATER METER
7 LF 3/4" WATER SERVICE LINE

RELOCATE WATER METER
7 LF 3/4" WATER SERVICE LINE

ABANDON 865 LF 8" UTILITY PIPE

RELOCATE WATER METER
7 LF 3/4" WATER SERVICE LINE

8" VALVE

WL3 STA. 9+87.81

8" X 8" X 6" DI TEE

FIRE HYDRANT

FIRE HYDRANT LEG - 8 LF

6" VALVE

WL3 STA. 9+84.37
Y1 STA. 38+20.43, 51.6' RT.

END CONSTRUCTION
CONNECT TO EX. 6" PVC
FORCE MAIN SEWER WITH
45 DEG DI BEND
FM2 STA. 22+94.93
Y1 STA. 39+07.85, 23.1' LT.

-Y1- POT 39+16.37

END CONSTRUCTION
CONNECT TO EX. 8" PVC WATER LINE
WITH 45 DEG DI BEND
WL3 STA. 10+43.21
Y1 STA. 38+47.90, 24.9' RT.

8" X 45° DI BEND
WL3 STA. 9+97.85
Y1 STA. 38+20.43, 51.6' RT.

NOTES:

- 4" DIAMETER FORCE MAIN PIPING SHALL BE DR11 HDPE PER ASTM 714 (PE 4710) UNLESS SHOWN AS DUCTILE IRON.
- HDPE JOINTS SHALL BE FUSION WELDED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 4" DIAMETER BURIED FORCE MAIN FITTINGS SHALL BE CEMENT LINED, ASPHALTIC COATED, DUCTILE IRON WITH MECHANICAL RESTRAINT EQUAL TO MEGALUGS.
- TRANSITIONS BETWEEN DUCTILE IRON AND HDPE SHALL BE PROVIDED IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE, INC. TN-36-2006 "GUIDELINES FOR CONNECTING HDPE POTABLE WATER PRESSURE PIPES TO DI AND PVC PIPING SYSTEMS", (www.plasticpipe.org), ARTICLE 2.8, TRANSITION FITTINGS. ALL TRANSITION FITTINGS WILL UTILIZE A MECHANICAL ASSEMBLY OF HDPE AND DI PIPE THAT WILL BE BUTT WELDED TO THE HDPE MEMBER.
- THE FORCE MAIN SYSTEM IS INTENDED TO BE TRENCHED IN THE ROAD RIGHT OF WAY. COMPACT TRENCH FILL TO 95% OF STANDARD PROCTOR THROUGHOUT.

THE ESTIMATED QUANTITY OF DUCTILE IRON
SEWER PIPE FITTINGS ON THIS PLAN SHEET
IS 250 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 1,080 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

FOR WATER LINE PROFILES SEE SHEETS UC-8 & UC-9

FOR FORCE MAIN PROFILES SEE SHEETS UC-9 & UC-10