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NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2390 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-26 THRU UC-29 FOR WATER LINE 6 PROFILE
SEE SHEET UC-30 FOR WATER LINE 8 PROFILE
SEE SHEET UC-31 FOR WATER LINE 9 PROFILE
SEE SHEET UC-44 FOR SEWER LINE 2 PROFILE
SEE SHEET UC-45 FOR SEWER LINE 3 & 4 PROFILES

WATER AND SEWER PLANS

HINDE ENGINEERING
License No. C-2639
401 Harrison Oaks Blvd., Suite 145 Cary, NC 27513

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5839	UC-8
DESIGNED BY: CDB	
DRAWN BY: ASW	
CHECKED BY: CLS	
APPROVED BY: CDB	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — Digitally signed by: Casey D Bousquet, PE — 5/1/2023

5/1/2023
UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

NAD 8395

PROP. 5′ DIA. MANHOLE E3
STA. 2+70, SEWER LINE 3
83.05′ LT OF LINE -L-
STA. 31+92.39

PROP. 5′ DIA. MANHOLE D2
STA. 2+80, SEWER LINE 2
74.18′ LT OF LINE -L-
STA. 31+82.70

PROP. 88′ OF 30″ SANITARY GRAVITY SEWER (DI, PC 250)

PROP. 5′ DIA. MANHOLE C2
STA. 1+92, SEWER LINE 2
60.91′ LT OF LINE -L-
STA. 32+69.69

PROP. 5′ DIA. MANHOLE D3
STA. 1+79, SEWER LINE 3
69.76′ LT OF LINE -L-
STA. 32+82.41

PROP. 91′ OF 18″ SANITARY GRAVITY SEWER (DI, PC 250)

PROP. 74′ OF 6″ WATER LINE (DI RJ, PC 350)
1-6″ VALVE

PROP. RECONNECT 1 WATER METER
89′ OF WATER SERVICE LINE (3/4″ COPPER, TYPE K)

PROP. 8″ X 6″ FLEXIBLE COUPLING

PROP. 4′ DIA. MANHOLE B4
STA. 0+82, SEWER LINE 4
50.73′ LT OF LINE -L-
STA. 33+64.48

PROP. 102′ OF 8″ SANITARY GRAVITY SEWER (DI, PC 350)

PROP. 5′ DIA. MANHOLE EQ1
STA. 1+60, SEWER LINE 3
STA. 0+00. SEWER LINE 4
50.76′ LT OF LINE -L-
STA. 32+82.42

PROP. 19′ OF 18″ SANITARY GRAVITY SEWER (DI, PC 250)

PROP. 54′ OF 12″ WATER LINE (DI RJ, PC 350)
1-12″ VALVE

ABANDON 7 UTILITY MANHOLES
ABANDON 106′-6″ UTILITY PIPE
ABANDON 210′-18″ UTILITY PIPE
ABANDON 170′-30″ UTILITY PIPE

WATER LINE 6
WATER LINE 9
SEWER LINE 4
SEWER LINE 3
SEWER LINE 2
WATER LINE 8

PROP. 122′ OF 30″ SANITARY GRAVITY SEWER (DI RJ, PC 250)
80′ OF 48″ ENCASEMENT PIPE (STEEL, 0.500″ THICK)
80′ BORE AND JACK OF 48″ STEEL ENCASEMENT

PROP. 5′ DIA. MANHOLE B2
STA. 0+70, SEWER LINE 2
61.09′ RT OF LINE -L-
STA. 32+69.71

PROP. 5′ DIA. MANHOLE A2
STA. 0+00, SEWER LINE 2
79.25′ RT OF LINE -L-
STA. 32+02.10

PROP. 449′ OF 16″ WATER LINE (HDPE, SDR 9 (DIPS))
449′ OF DIRECTIONAL DRILLING OF 16″ WATER LINE

PROP. 70′ OF 30″ SANITARY GRAVITY SEWER (DI, PC 250)

PROP. 41′ OF 18″ SANITARY GRAVITY SEWER (DI, PC 250)

PROP. 5′ DIA. MANHOLE A3
STA. 0+00, SEWER LINE 3
78.88′ RT OF LINE -L-
STA. 32+42.83

PROP. 6′ DIA. MANHOLE C3
STA. 0+84, SEWER LINE 3
25.24′ RT OF LINE -L-
STA. 32+82.42

PROP. 86′ OF DUAL 14″ SANITARY GRAVITY SEWER (DI, PC 250)

PROP. 6′ DIA. MANHOLE B3
STA. 0+41, SEWER LINE 3
68.24′ RT OF LINE -L-
STA. 32+82.43

PROP. 1-12″ VAVLE
1-6″ VALVE

PROP. 90′ OF 12″ ENCASEMENT PIPE(STEEL, 0.188″ THICK)
90′ BORE AND JACK OF 12″ STEEL ENCASEMENT

PROP. 208′ OF 6″ WATER LINE (DI RJ, PC 350)

END DIRECTIONAL BORE STA. 9+28.0

DIRECTIONAL BORE

RIPRAP AT EMBANKMENT SEE DETAIL 8-A

PROPOSED SHORT GUARDRAIL

END APPROACH SLAB PROPOSED GUARDRAIL

150′ LEFT TURN STORAGE

100′ LEFT TURN TAPER

MATCHLINE -L- STA. 30+00 SEE SHEET UC-7

MATCHLINE -L- STA. 35+00 SEE SHEET UC-9

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