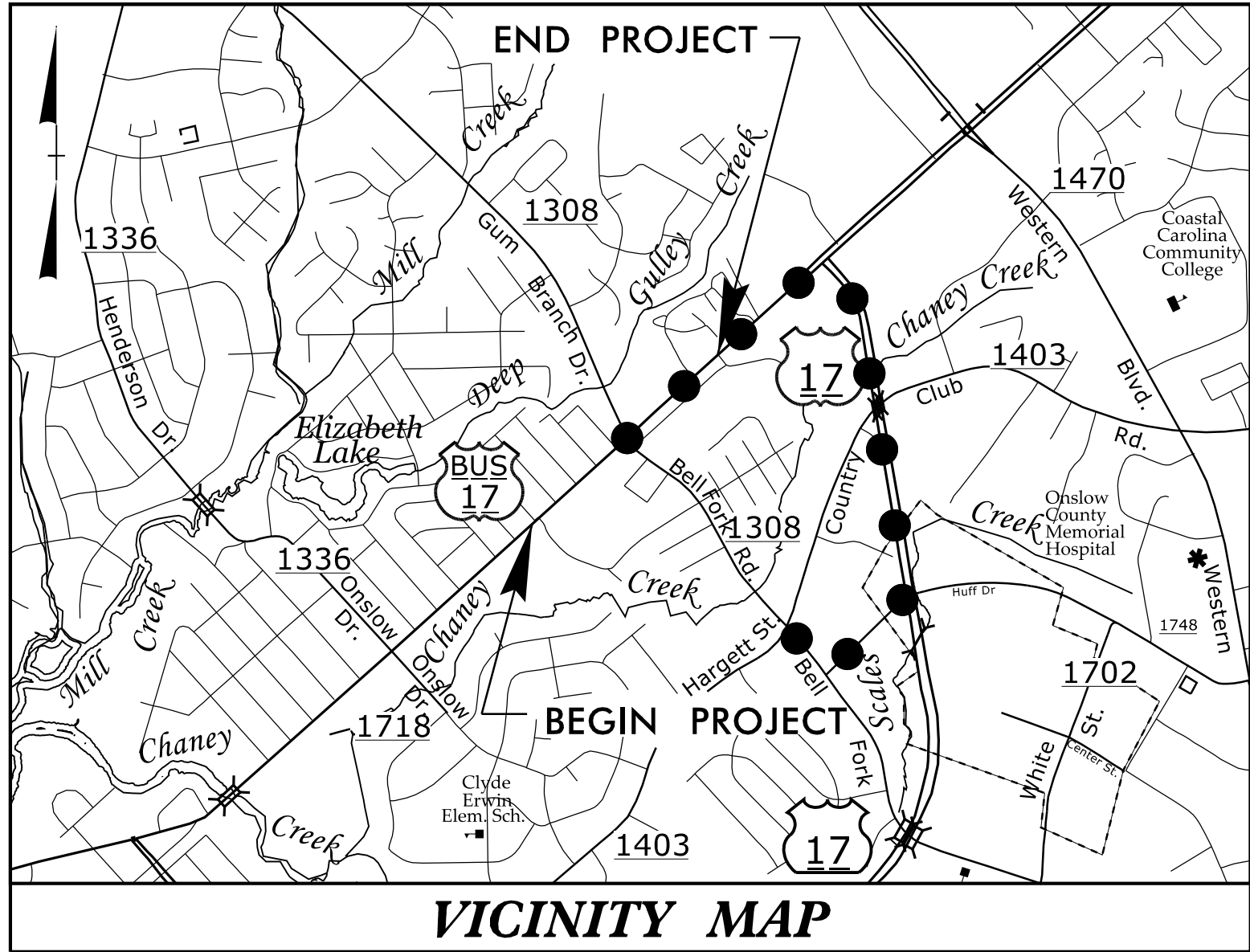


TIP PROJECT: U-5728

CONTRACT:



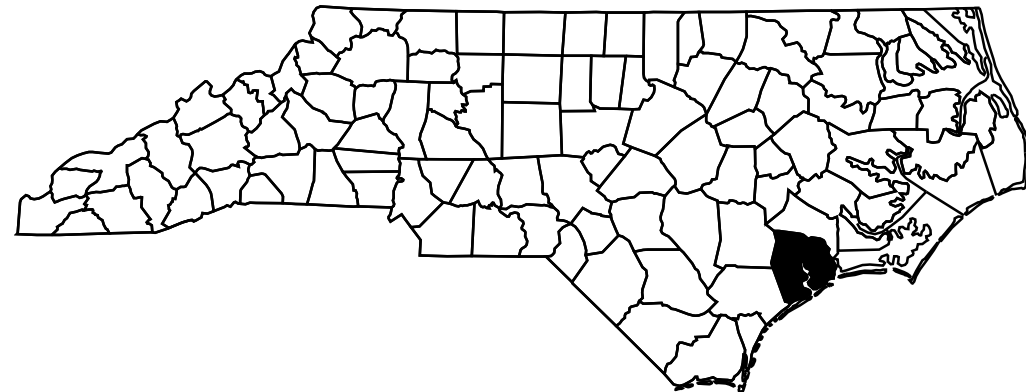
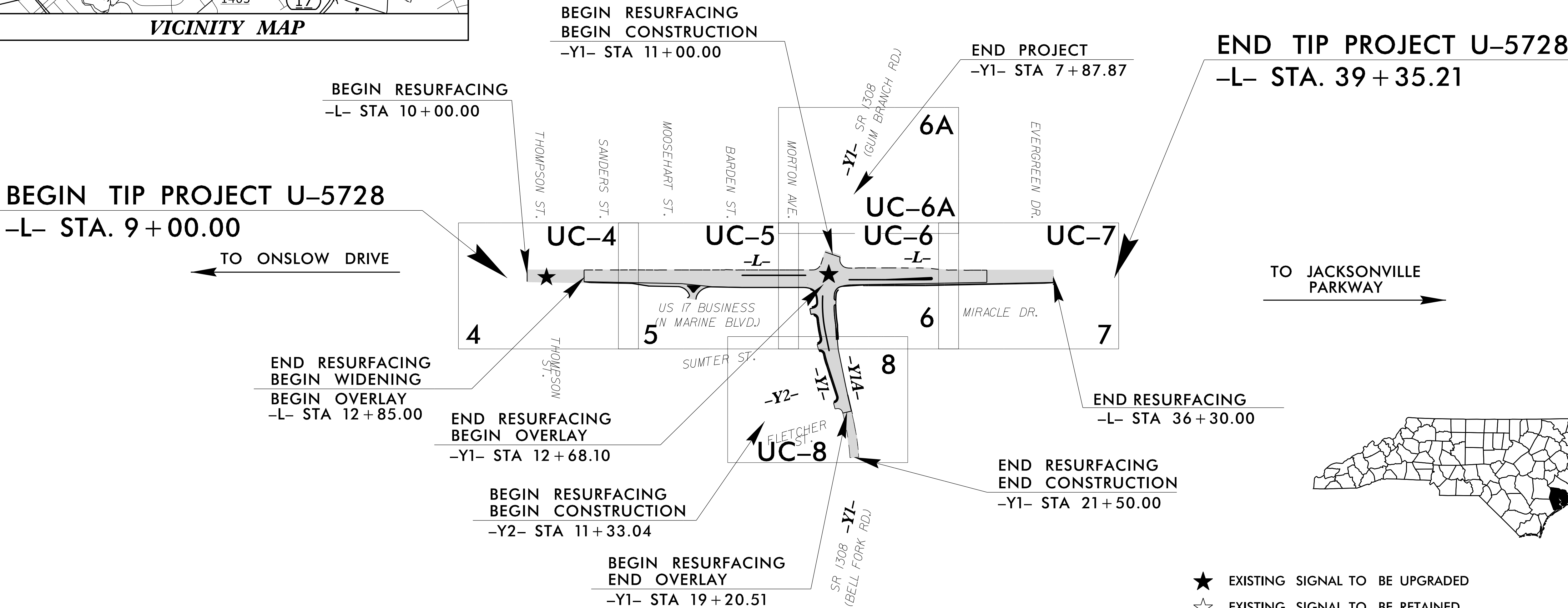
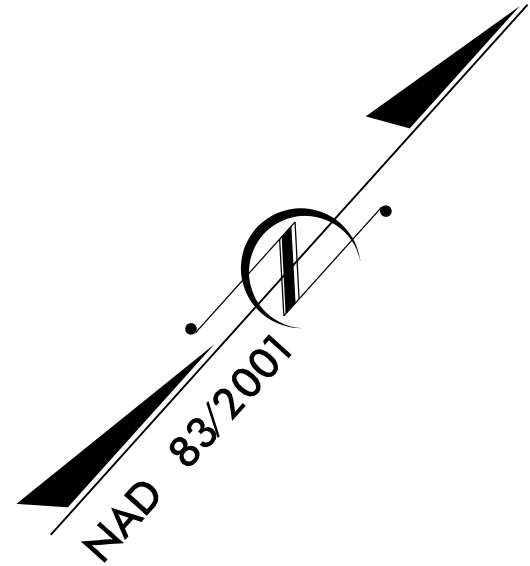
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
ONSLOW COUNTY

LOCATION: CITY OF JACKSONVILLE -
US 17 BUSINESS (MARINE BOULEVARD) AT
SR 1308 (BELL FORK RD./GUM BRANCH RD.)

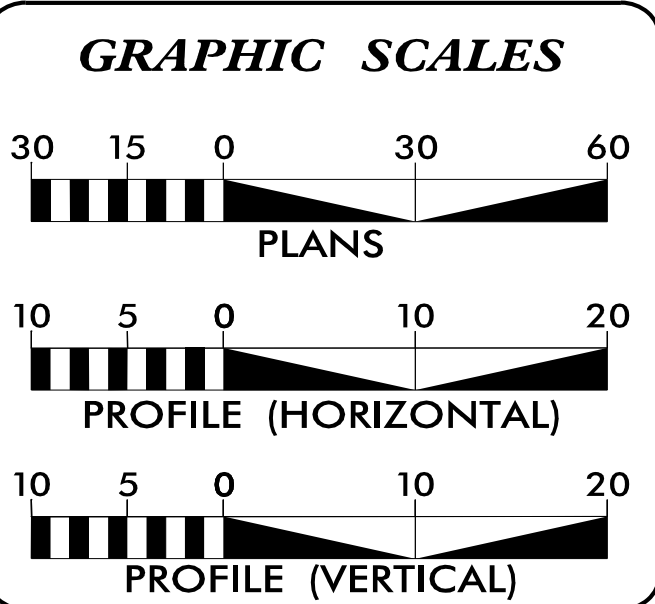
TYPE OF WORK: WATER RELOCATION

T.I.P. NO.	SHEET NO.
U-5728	UC-1



- ★ EXISTING SIGNAL TO BE UPGRADED
- ☆ EXISTING SIGNAL TO BE RETAINED

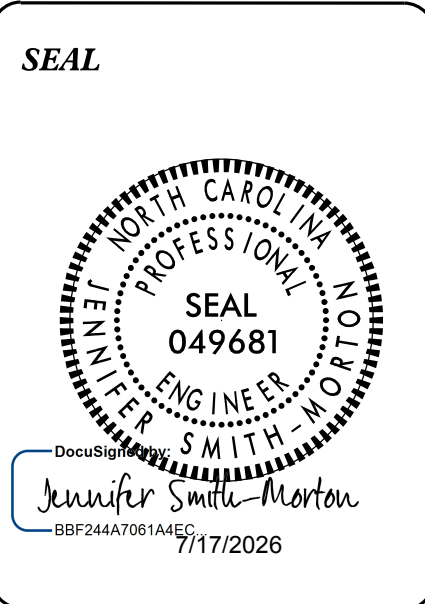
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UNTIL ALL SIGNATURES ARE COMPLETED



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

WATER AND SEWER OWNERS ON PROJECT
(A) WATER - CITY OF JACKSONVILLE
(B) SEWER - CITY OF JACKSONVILLE

PREPARED IN THE OFFICE OF Mead & Hunt
111 E. Hargett Street, Suite 300 Raleigh, North Carolina 27601 919-714-8670 meadhunt.com NC License No. F-1235
KEVIN BARNES, PE JENNIFER SMITH-MORTON, PE ANDREW BRAME, EI
UTILITY DEPARTMENT MANAGER UTILITY PROJECT MANAGER PROJECT UTILITY DESIGNER



DIVISION OF HIGHWAYS UTILITIES UNIT	1555 MAIL SERVICES CENTER RALEIGH, NC 27699-1555 PHONE (919) 707-6690 FAX (919) 250-4151
TEVIN ASAMOAH	UTILITIES ENGINEER
TIMOTHY G. GODWIN	DIVISION UTILITIES ENGINEER
RODNEY SCRUGGS	SENIOR DIVISION UTILITY COORDINATOR

5/14/99

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
U-5728	UC-2

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UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	12" WL
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
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	RFH
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	PRPZ
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" ENCASMENT

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	P
*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	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

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

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" 2024.

2. THE EXISTING UTILITIES BELONG TO THE CITY OF JACKSONVILLE.
CONTACT: MICHAEL MOORE
PHONE: 910-938-5332

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.

UTILITY CONSTRUCTION

PROJECT SPECIFIC NOTES:

1. PROPOSED 12" WATER LINE FROM -L- LINE STATION 9+94 RT TO -L- LINE STATION 10+34 RT SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE. PROPOSED 8" WATER LINE FROM -L- LINE STATION 20+69 RT TO -L- LINE STATION 21+30 RT SHALL BE C905 PVC (JOINTS AND FITTINGS TO BE MECHANICALLY RESTRAINED DUCTILE IRON). PROPOSED 12" WATER LINE FROM -L- LINE STATION 20+80 RT TO -L- LINE STATION 21+20 RT SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE. PROPOSED 8" WATER LINE FROM -L- LINE STATION 23+04 RT TO -L- LINE STATION 23+67 RT SHALL BE C905 PVC (JOINTS AND FITTINGS TO BE MECHANICALLY RESTRAINED DUCTILE IRON). PROPOSED 12" WATER LINE FROM -Y1- LINE STATION 13+21 RT TO -Y1- LINE STATION 13+77 RT SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE. PROPOSED 8" WATER LINE FROM -Y1- LINE STATION 13+53 RT TO -Y1- LINE STATION 13+52 LT SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE. PROPOSED 12" WATER LINE FROM -Y1- LINE STATION 14+24 RT TO -Y1- LINE STATION 15+50 RT SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE. PROPOSED 6" WATER LINE FROM -Y1- LINE STATION 15+96 RT TO -Y1- LINE STATION 15+96 RT SHALL BE C900 PVC (JOINTS AND FITTINGS TO BE MECHANICALLY RESTRAINED DUCTILE IRON LINED LINED WITH PROTECTO 401 OR EQUIVALENT). PROPOSED 12" WATER LINE FROM -Y1- LINE STATION 16+67 RT TO -Y1- LINE STATION 21+37 RT SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE. PROPOSED 6" WATER LINE FROM -Y2- LINE STATION 14+86 LT TO -Y2- LINE STATION 15+44 LT SHALL BE C900 PVC (JOINTS AND FITTINGS TO BE MECHANICALLY RESTRAINED DUCTILE IRON WITH PROTECTO 401 OR EQUIVALENT).

2. ALL EXISTING WATER SERVICES TO BE REPLACED FROM THE MAIN LINE TO THE RIGHT-OF-WAY LINE. THE NEW WATER METER ASSEMBLY SHALL BE CONNECTED TO THE EXISTING SERVICE LINE ON THE CUSTOMER SIDE OF THE RIGHT-OF-WAY.

LIST OF STANDARD DRAWINGS

1515.01 - WATER METER

1515.02 - FIRE HYDRANT

PROJECT REFERENCE NO.		SHEET NO.
U-5728		UC-3
DESIGNED BY:	JSM	SEAL 049681 JENNIFER S. HUNT 7/17/2026
DRAWN BY:	ADB	
CHECKED BY:	JSM	
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		

UTILITY CONSTRUCTION

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CITY OF JACKSONVILLE - WATER/SEWER - TYPICAL DETAILS

PROJECT REFERENCE NO.
U-5728

SHEET NO.
UC-3B

DESIGNED BY: **JSM**

DRAWN BY: **ADB**

CHECKED BY: **JSM**

APPROVED BY:

REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

SEAL
049681

Jennifer S. Hunt
Professional Engineer
7/17/2026

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

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12" DIP	
VERTICAL UPWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT) (LENGTH IF POLY-WRAPPED)	
ANGLE	12-INCH
11.25	5.7 (6.5)
22.5	11.6 (13.1)
45	24.1 (27.3)
90	58.3 (66.0)

8" DIP	
VERTICAL UPWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT) (LENGTH IF POLY-WRAPPED)	
ANGLE	8-INCH
11.25	4.1 (4.7)
22.5	8.3 (9.4)
45	17.3 (19.6)
90	41.7 (47.3)

8" PVC	
VERTICAL UPWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT)	
ANGLE	8-INCH
11.25	4.0
22.5	8.0
45	16.0

6" PVC	
VERTICAL UPWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT)	
ANGLE	8-INCH
11.25	3.0
22.5	6.0
45	12.0

12" DIP	
VERTICAL DOWNWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT) (LENGTH IF POLY-WRAPPED)	
ANGLE	12-INCH
11.25	14.8 (21.1)
22.5	29.8 (42.6)
45	62.1 (88.8)
90	150.0 (214.3)

8" DIP	
VERTICAL DOWNWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT) (LENGTH IF POLY-WRAPPED)	
ANGLE	8-INCH
11.25	10.5 (14.9)
22.5	21.1 (30.2)
45	44.0 (62.9)
90	106.3 (151.8)

8" PVC	
VERTICAL DOWNWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT)	
ANGLE	8-INCH
11.25	13.0
22.5	26.0
45	54.0

6" PVC	
VERTICAL DOWNWARD BENDS REQUIRED RESTRAINT ON EACH SIDE (FT)	
ANGLE	8-INCH
11.25	10.0
22.5	20.0
45	41.0

12" DIP	
HORIZONTAL BENDS REQUIRED RESTRAINT ON EACH SIDE (FT) (LENGTH IF POLY-WRAPPED)	
ANGLE	12-INCH
11.25	5.7 (6.5)
22.5	11.6 (13.1)
45	24.1 (27.3)
90	58.3 (66.0)

8" DIP	
HORIZONTAL BENDS REQUIRED RESTRAINT ON EACH SIDE (FT) (LENGTH IF POLY-WRAPPED)	
ANGLE	8-INCH
11.25	4.1 (4.7)
22.5	8.3 (9.4)
45	17.3 (19.6)
90	41.7 (47.3)

8" PVC	
HORIZONTAL BENDS REQUIRED RESTRAINT ON EACH SIDE (FT)	
ANGLE	8-INCH
11.25	4.0
22.5	8.0
45	16.0
90	38.0

6" PVC	
HORIZONTAL BENDS REQUIRED RESTRAINT ON EACH SIDE (FT)	
ANGLE	8-INCH
11.25	3.0
22.5	6.0
45	12.0
90	29.0

12" DIP	
LINE STOPS, AND IN-LINE ISOLATION VALVES REQUIRED (LENGTH IF POLY-WRAPPED)	
LOCATION	12-INCH
IN-LINE ISOLATION VALVE	150.0 (214.3)
LINE STOP	150.0 (214.3)

8" DIP	
LINE STOPS, AND IN-LINE ISOLATION VALVES REQUIRED (LENGTH IF POLY-WRAPPED)	
LOCATION	8-INCH
IN-LINE ISOLATION VALVE	106.3 (151.8)
LINE STOP	106.3 (151.8)

8" PVC	
LINE STOPS, AND IN-LINE ISOLATION VALVES REQUIRED	
LOCATION	8-INCH
IN-LINE ISOLATION VALVE	129.0
LINE STOP	129.0

6" PVC	
LINE STOPS, AND IN-LINE ISOLATION VALVES REQUIRED	
LOCATION	8-INCH
IN-LINE ISOLATION VALVE	99.0
LINE STOP	99.0

DIP TEES - LOCATION SPECIFIC		
LOCATION (STA and Offset)	SIZE (FT) (RUN X BRANCH)	REQUIRED RESTRAINT FOR BRANCH (FT) (LENGTH IF POLY-WRAPPED)
Y1 STA 13+53.48 RT 38.44'	12 X 8	52.5 (75.0)
Y1 STA 18+45.30 RT 33.49'	12 X 6	SEE NOTE 4

- Notes:
- PVC CALCULATIONS ARE PER EBAA RESTRAINT LENGTH CALCULATOR. ASSUMPTIONS ARE AS FOLLOWS:
 - SC/CL/ML TYPE SOIL (USED ML TO BE CONSERVATIVE)
 - TYPE 5 BEEDING CONDITION
 - SAFETY FACTOROF 1.5
 - 3' COVER FOR TOP AND 12' COVER FOR BOTTOM
 - DESIGN PRESSURE OF 200 PSI
 - DIP CALCULATIONS ARE PER DIPRA RESTRAINT CALCULATOR. ASSUMPTIONS ARE AS FOLLOWS:
 - SILT 1/CLAY 1 TYPE SOIL (USED SILT 1 TO BE CONSERVATIVE)
 - TYPE 5 BEEDING CONDITION
 - SAFETY FACTOROF 1.5
 - 3' COVER FOR TOP AND 12' COVER FOR BOTTOM
 - DESIGN PRESSURE OF 200 PSI
 - REQUIRED RESTRAINED JOINT LENGTH WILL BE ROUNDED TO THE NEXT FULL JOINT OF PIPE.
 - WHERE RESTRAINED LENGTHS ENCROACH UPON ONE ANOTHER, ALL OF THE PIPE BETWEEN THE FITTINGS SHALL BE RESTRAINED.

RESTRAINED JOINT TABLE
DETAIL A

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MATCHLINE SEE SHEET UC-5 -L- STA. 15+00.00

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 860 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

BEGIN RESURFACING
-L- POT STA. 10+00.00

BEGIN TIP PROJECT U-5728
-L- POT STA. 9 + 00.00

APPROX. 170' SW
TO NEAREST EXIST.
ISOLATION VALVE
FOR EXIST. 12" WA
LINE (AT COX AVE)

1-STANDARD ANCHOR BLOCK
PER DETAIL 512.05

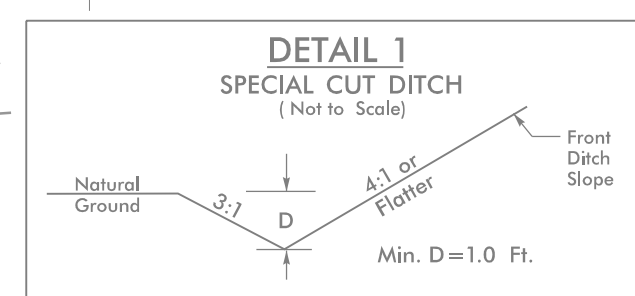
12" WATER LINE WL-1 - 40 LF
(INSTALL DOWN AND UNDER)

4-12" 45° VERT. BENDS
SEE NOTE #1

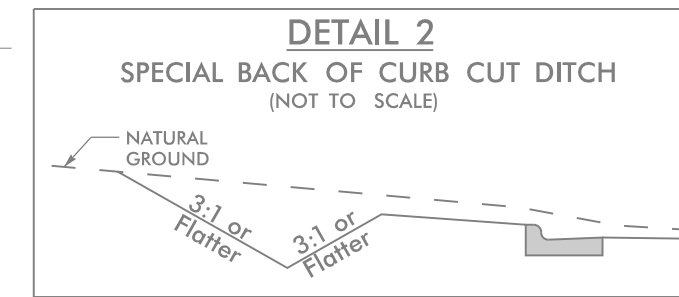
GENERAL NOTES:
1. DOWN AND UNDER RELOCATION OF WATER
LINE TO CLEAR THE CONFLICT WITH THE
PROPOSED DRAINAGE PIPE IS IN THE SAME
HORIZONTAL ALIGNMENT OF THE EXISTING
WATER LINE UNLESS SHOWN OTHERWISE.
REFER TO DETAIL MH-1 ON SHEET UC-3A
FOR ADDITIONAL INFORMATION.

EXISTING 8" RAW WATER
MANUAL AIR VENT
(PER AS-BUILT)

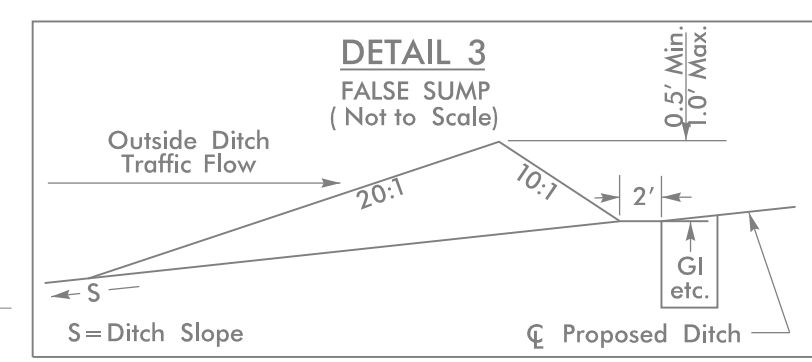
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FROM STA. 11+50 TO STA. 14+50 -L- RT
FROM STA. 26+10 TO STA. 37+20 -L- RT



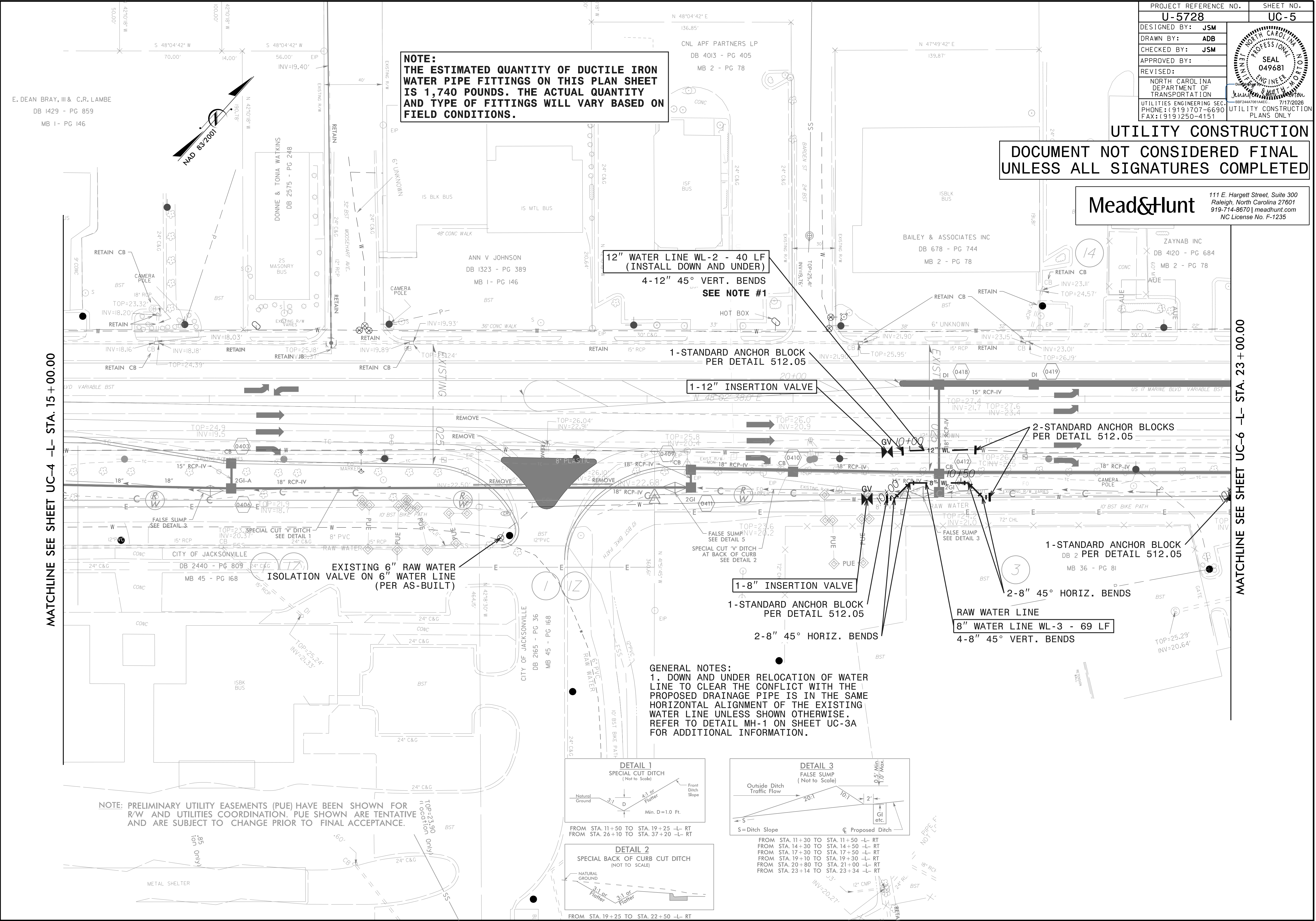
FROM STA. 19+30 TO STA. 22+50 -L- RT



FROM STA. 11+30	TO STA. 11+50	-L- RT
FROM STA. 14+30	TO STA. 14+50	-L- RT
FROM STA. 15+90	TO STA. 16+10	-L- RT
FROM STA. 19+10	TO STA. 19+30	-L- RT
FROM STA. 20+80	TO STA. 21+00	-L- RT
FROM STA. 23+14	TO STA. 23+34	-L- RT

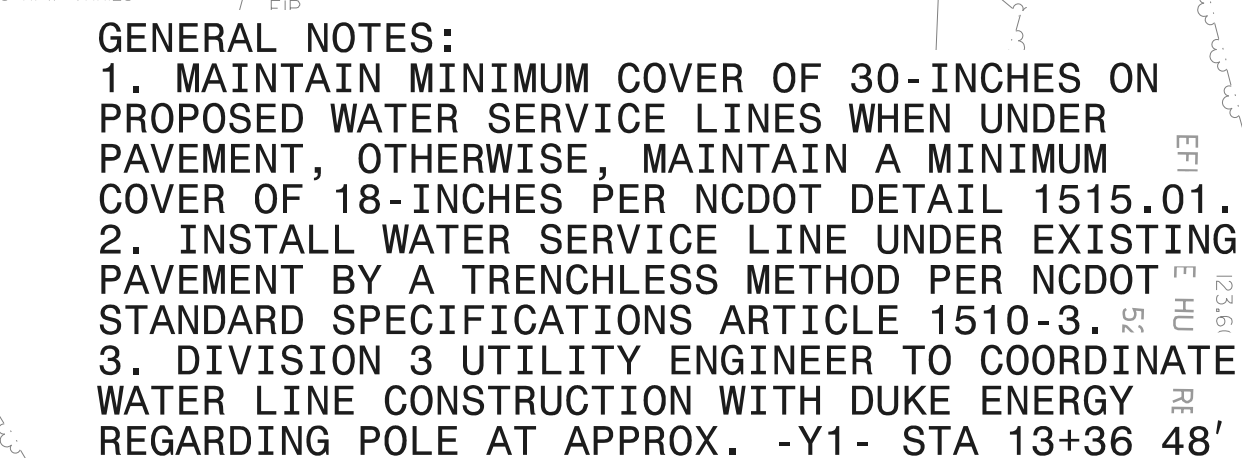
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REFERENCE SHEET NOTES:

1. FOR WL-5 PROFILE REFER TO SHEET UC-9
2. FOR WL-6 PROFILE REFER TO SHEET UC-9
3. FOR WL-7 PROFILE REFER TO SHEET UC-10

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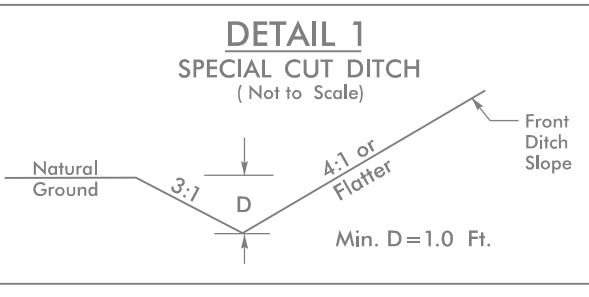


Professional Engineer Seal for North Carolina, No. 049681, for Jennifer L. Morto.

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—L— STA. 36 + 30.00



FROM STA. 11+50 TO STA. 17+50 -L- RT
FROM STA. 26+10 TO STA. 37+20 -L- RT

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F EASEMENTS (PUE) HAVE BEEN SHOWN FOR
COORDINATION. PUE SHOWN ARE TENTATIVE
(D) JFC CHANGE PRIOR TO FINAL ACCEPTANCE.

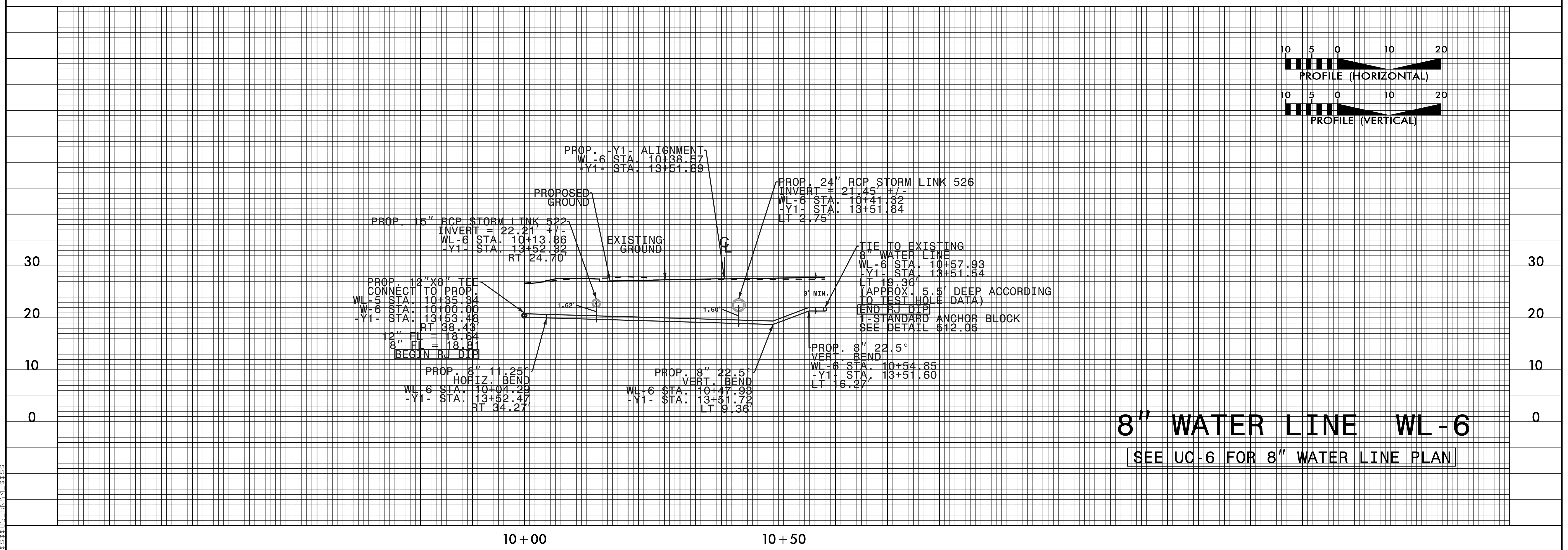
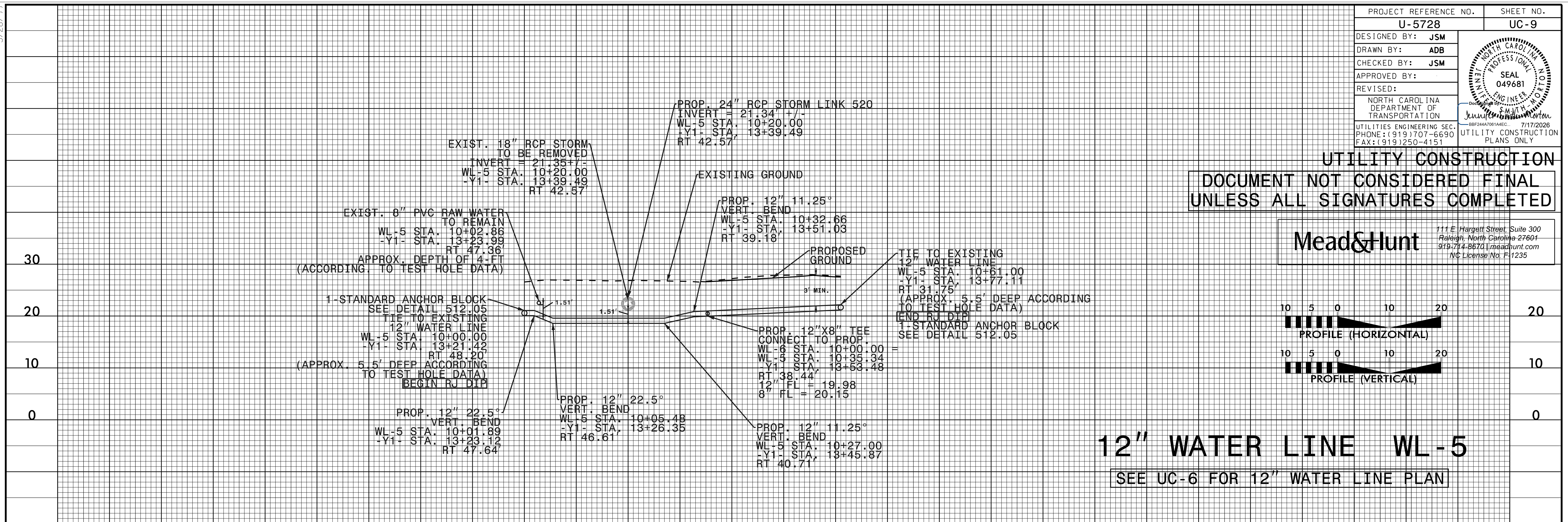
APPROXIMATELY 170' SOUTHEAST
TO NEAREST EXIST. ISOLATION VALVE
FOR EXIST. 12" WATER LINE

REFER TO UC SPECIAL PROVISIONS FOR 12" WL
(-9) INSTALLATION ALONG PARCEL 11 AND 13

REFERENCE SHEET NOTES:
1. FOR WL-9 PROFILE REFER TO SHEET UC-10
THRU UC-11

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 4,570 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

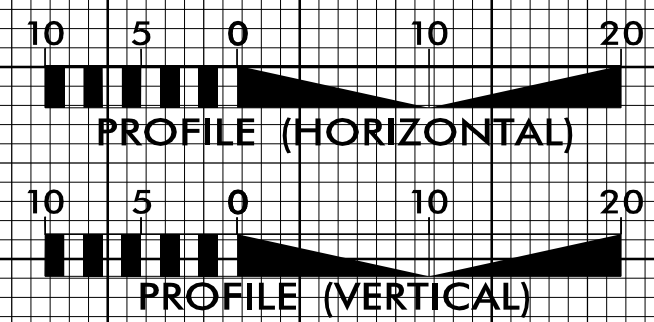
MB 30 1-12" TAPPING SLEEVE & VALVE



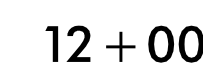
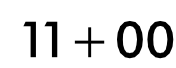
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UTILITY CONSTRUCTION
PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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SEE UC-6 FOR 12" WATER LINE PLAN



SEE UC-8 FOR 12" WATER LINE PLAN

