This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

This file or an individual page shall not be considered a certified document.

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

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

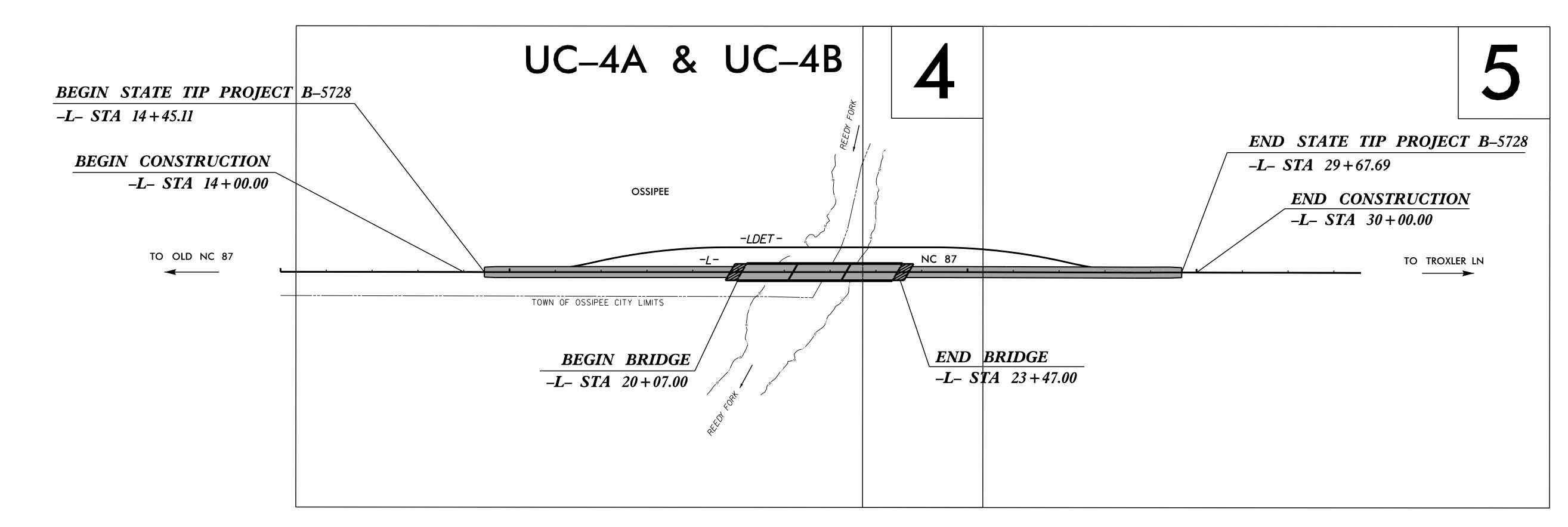
UTILITY CONSTRUCTION PLANS ALAMANCE COUNTY

LOCATION: REPLACEMENT OF BRIDGE NO. 000112 OVER REEDY FORK

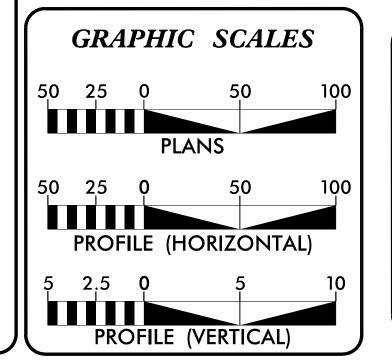
ON NC 87

TYPE OF WORK: UTILITY CONSTRUCTION





DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



INDEX OF SHEETS

SITY LIMIT

VICINITY MAP (NOT TO SCALE)

> SHEET NO.: **DESCRIPTION:** TITLE SHEET UC-1 *UC-2* UTILITY SYMBOLOGY *UC-3* **NOTES DETAILS** *UC-3A* UC-4A THRU UC-4B UTILITY CONSTRUCTION SHEETS PROFILE SHEET *UC-5*

WATER OWNERS ON PROJECT

WATER - TOWN OF OSSIPEE



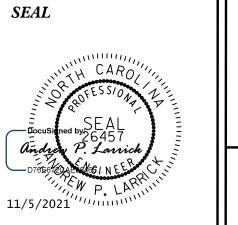
CONSULTANT CONTACT #3

Andy Larrick, P.E.

Steve McKee, P.E.

Ralph Lowe

PLANK RD, HIGH POINT, NC 27265 336)886-4821 FAX: (336)886-4458 MP-INC.COM LICENSE: F-0245	CAROLLING CAROLL
CONSULTANT CONTACT #1 CONSULTANT CONTACT #2	11/5/2021



of NON A CAROLLA	DIVISION OF HIGHWAYS UTILITIES UNIT
	1555 MAIL SERVICE CENTER RALEIGH NC 27699–1555 PHONE (919) 707–6690 FAX (919) 250–4151

Amy York Ali Koucheki, P.E. Jon Loughry Dayton Martin

CENTRAL UTILITIES MANAGER REGIONAL UTILITIES ENGINEER SENIOR UTILITIES ENGINEER REGIONAL UTILITY COORDINATOR SENIOR UTILITY COORDINATOR

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown) - — — — — — — 11½ Degree Bend -————————— 45 Degree Bend - — — — — — — — * 90 Degree Bend -—————— Plug -----Cross-————————————| Gate Valve-—————————————— Butterfly Valve ———————— $\stackrel{\scriptscriptstyle\mathsf{BV}}{\longleftarrow}$ Tapping Valve — — — — — — TGV Line Stop with Bypass—————— Blow Off — — — — — — — BO Fire Hydrant-————————— Relocate Fire Hydrant — — — — — — — Remove Fire Hydrant———————————————————— Relocate Water Meter — — — — — — **** Remove Water Meter — — — — — — REM. WM Water Pump Station — — — — — — PS(W) RPZ Backflow Preventer - — — — — PRPZ DCV Backflow Preventer —————— Relocate RPZ Backflow Preventer——— RRPZ Relocate DCV Backflow Preventer——— RBFF PROPOSED SEWER SYMBOLS Gravity Sewer Line __ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (Sized as Shown) Force Main Sewer Line _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ ___ (Sized as Shown) (Sized per Note)

Sewer Pump Station — — — — — — — — PS(SS)

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole ————————	— b	Thrust Block -————————
elephone Pole -———————	— -	Air Release Valve-————————
Joint Use Pole -———————	— -	Utility Vault — — — — — — — —
elephone Pedestal — — — — — —	— TEL PED	Concrete Pier — — — — — — — — — — — — — — — — — — —
Itility Line by Others	PROP O/H POW LINES	Steel Pier ———————— 🗀
renchless Installation —————	12" TL INSTALL	Plan Note
Encasement by Open Cut —————	24" ENCAS BY OC	Pay Item Note — — — — NOTE
Encasement - — — — — — — — — — — —	24" FNCASEMENT	PAY ITEM

EXISTING UTILITIES SYMBOLS

		*	
Power Pole-—————————	•	*Underground Power Line-——————	
Telephone Pole	•	*Underground Telephone Cable — — — —	т
Joint Use Pole	- ♦-	*Underground Telephone Conduit	тс
Utility Pole-———————	•	*Underground Fiber Optics Telephone Cable	т го
Utility Pole with Base-—————		*Underground TV Cable ——————	тv
H-Frame Pole-—————————	•—•	*Underground Fiber Optics TV Cable———	TV FO
Power Transmission Line Tower-———	\boxtimes	*Underground Gas Pipeline - — — — —	c
Water Manhole — — — — — — — — — — — — — — — — — — —	₩	Aboveground Gas Pipeline-————	A/G Gas
Power Manhole — — — — — — — — —	P	*Underground Water Line-————	
Telephone Manhole - — — — — — — —		Aboveground Water Line-—————	A/G Water
Sanitary Sewer Manhole — — — — — —		*Underground Gravity Sanitary Sewer Line-	ss
Hand Hole for Cable — — — — — —	™	Aboveground Gravity Sanitary Sewer Line-	A/G Sanitary Sewer
Power Transformer-—————————		*Underground SS Forced Main Line———	FSS——
Telephone Pedestal — — — — — — —	T	Underground Unknown Utility Line — —	?UTL ——
CATV Pedestal — — — — — — — — —		SUE Test Hole — — — — — — — —	•
Gas Valve	♦	Water Meter — — — — — — — — — — — — — — — — — — —	\odot
Gas Meter — — — — — — — — — — — — — — — — — — —	♦	Water Valve — — — — — — — — — — — — — — — — — — —	⊗
Located Miscellaneous Utility Object — —	\odot	Fire Hydrant-——————————	Ф
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

- 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 SYSTEM BELONGS TO THE TOWN OF OSSIPEE.
- 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. 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 OWNER'S 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. LINE STOPS AND INSERT VAVLES WILL BE REQUIRED WHERE INDICATED ON THE PLANS, WHERE THE UTILITY OWNER CANNOT ISOLATE THE EXISTING LINES WITHOUT MAJOR DISRUPTION OF SERVICE TO MANY USERS.
- 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 3" THRU 12" DIAMETER, PIPE SHALL BE DUCTILE IRON, PC 350. PROVIDE RESTRAINED-JOINT DIP WHERE INDICATED ON PROFILES.
- 2. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509, RATED FOR 200 PSI MINIMUM WORKING PRESSURE.
- 3. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION.
- 4. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER CONCERNING THE TIMING AND SCHEDULE OF REQUIRED SHUT-DOWNS OF ANY EXISTING WATER OR SEWER MAINS.

LIST OF STANDARD DRAWINGS

1515.02 FIRE HYDRANT

PROJECT REFERENCE NO. SHEET NO.

B-5728

UC-3

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

SHEET NO.

UC-3

UC-3

Docdsigned P6.457

Angrew P. Larrick

P. LARRICH

DOCDSIGNED PER CONSTRUCTION

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS

6415 OLD PLANK RD, HIGH POINT, NC 27265

BLOWER (2001000 4004 FAV. (2001000 4450)

DocuSign Envelope ID: 403D67AD-CD00-4C97-9C0C-5CEB1C097812

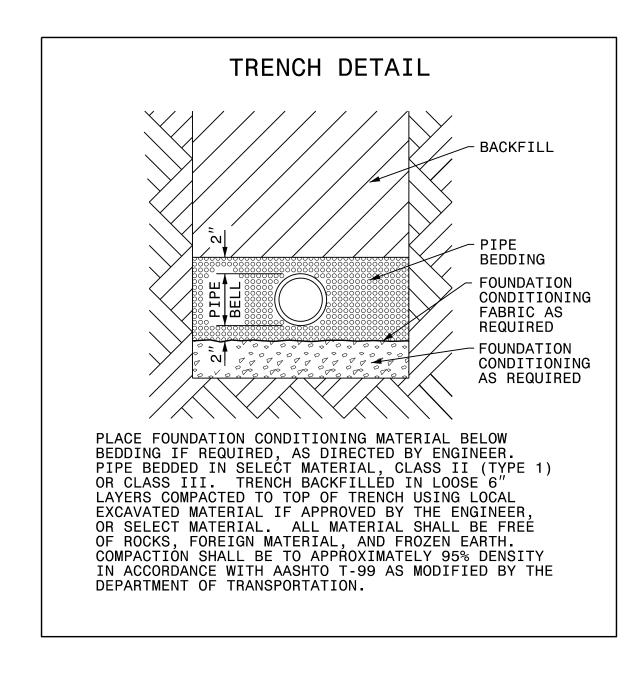
PROJECT TYPICAL DETAILS

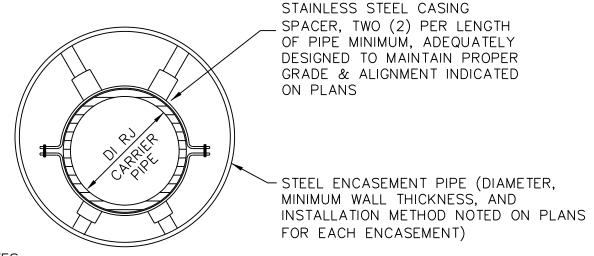
PROJECT REFERENCE	NO.	SHEET NO.
B-5728		UC-3A
DESIGNED BY: DMP		MINIMITE.
DRAWN BY: DMP	, il	CARO
CHECKED BY: DMP	12.5	CAROLLING SEASON
APPROVED BY:	- Dogu	SEAL = =
REVISED:		oew P. Larrick
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	D76E	pigned 296457 acw P. Larrich Schlügen EER OLINE P. LARRICH O21
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	11/5/2 UTILI	021 TY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20 24	44 48
6 8	30 32	30	54
10	34	36	60
12	36	42	66
14	38	48	72 78
16 18	40 42	54	70





NOTES:

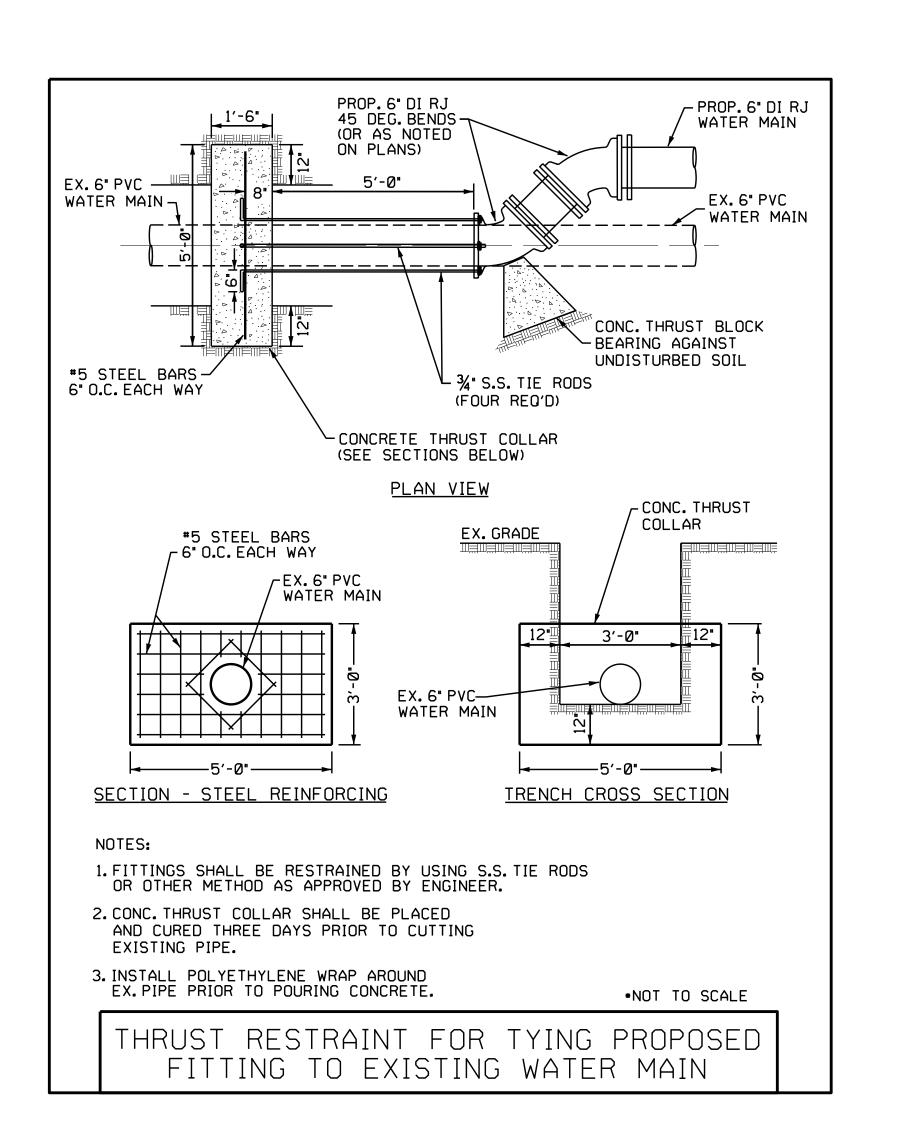
1. ENCLOSE ENDS WITH BRICK MASONRY.

2. PROVIDE 2" 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.



\$\$\$\$\$\$\$\STIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

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-0245