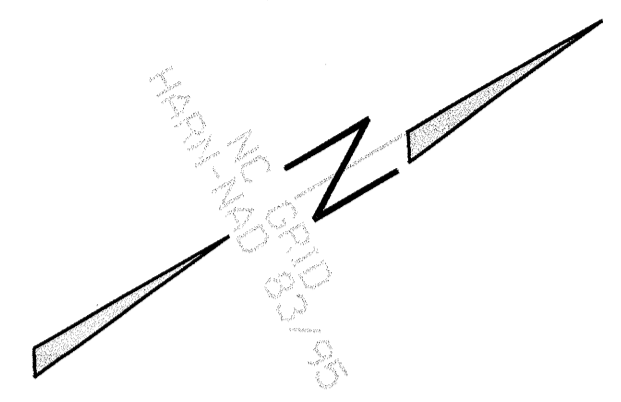


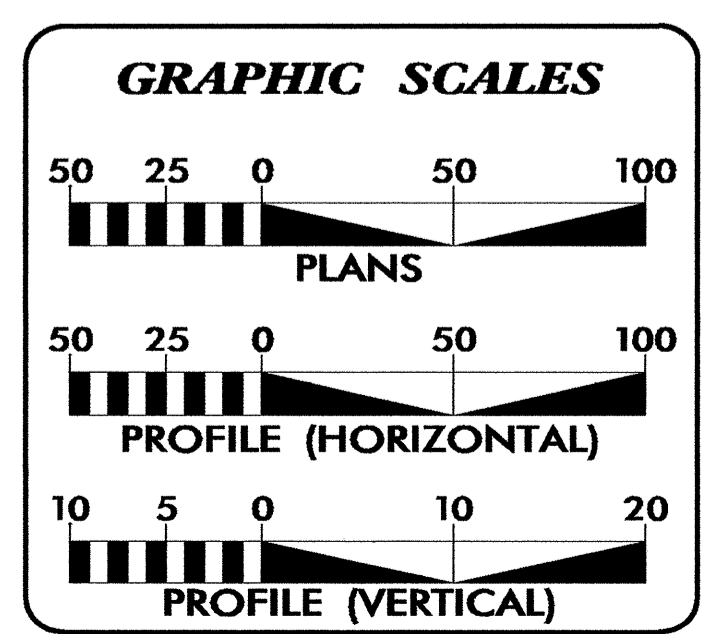
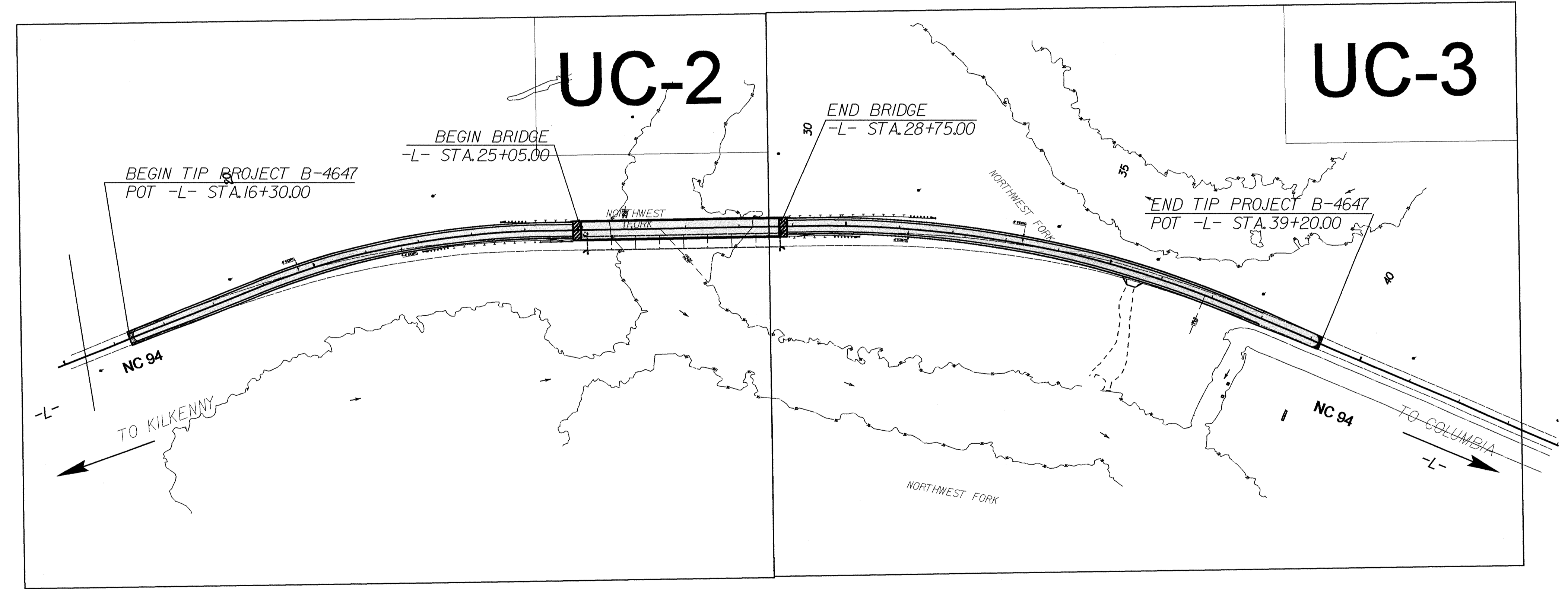
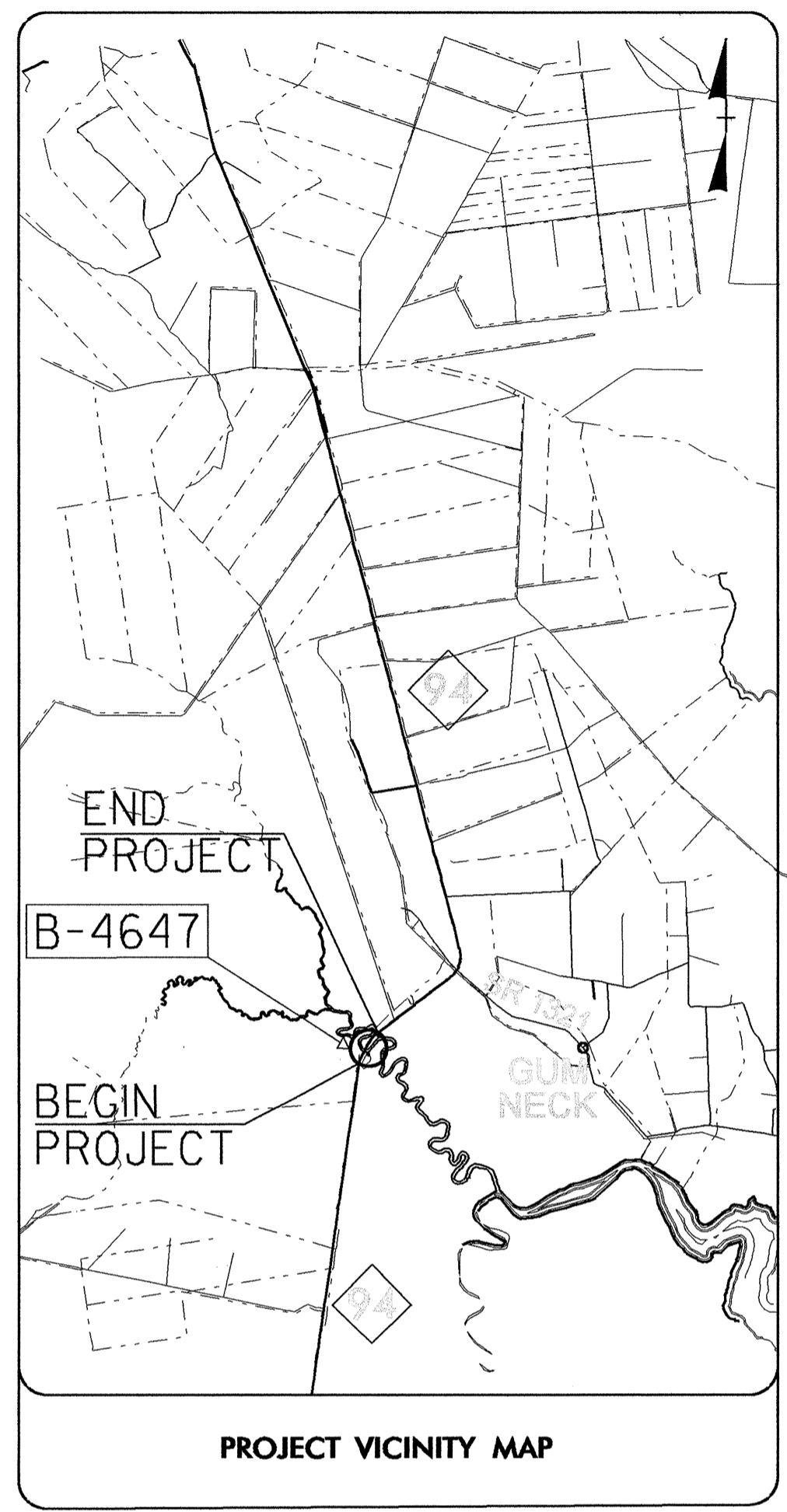
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS  
TYRRELL COUNTY**

**LOCATION: BRIDGE NO. 6 OVER NORTHWEST FORK ON NC 94.  
TYPE OF WORK: WATER LINE RELOCATIONS**



**TIP PROJECT: B-4647**

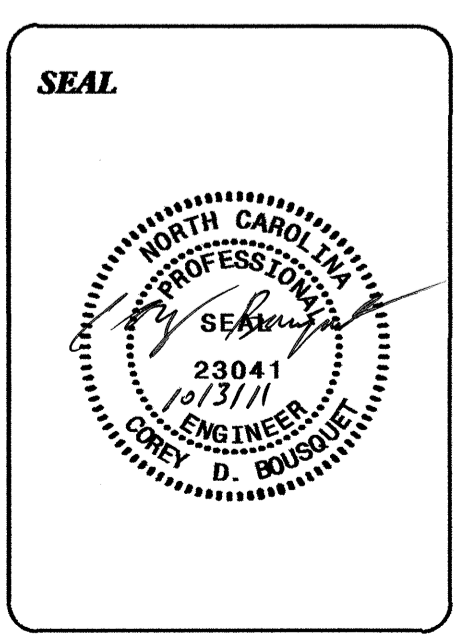


**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2, UC-3	PLAN SHEETS
UC-4	DETAIL SHEET

**WATER AND SEWER OWNERS ON PROJECT**

(1) WATER (TYRRELL COUNTY)



PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
UTILITIES ENGINEERING  
SECTION**

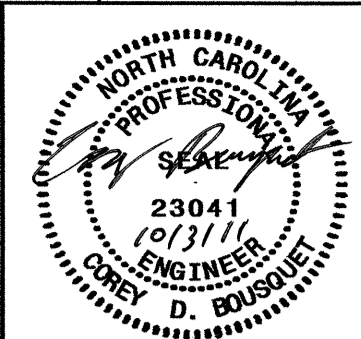
1501 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1591  
PHONE (919) 707-6690  
FAX (919) 250-4151

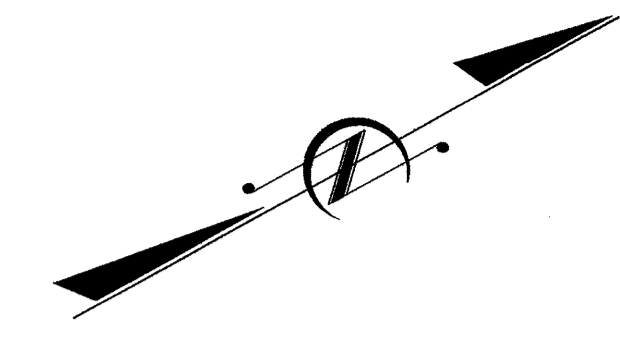
**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Corey Bousquet, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Eric Haugaard** UTILITIES PROJECT DESIGNER

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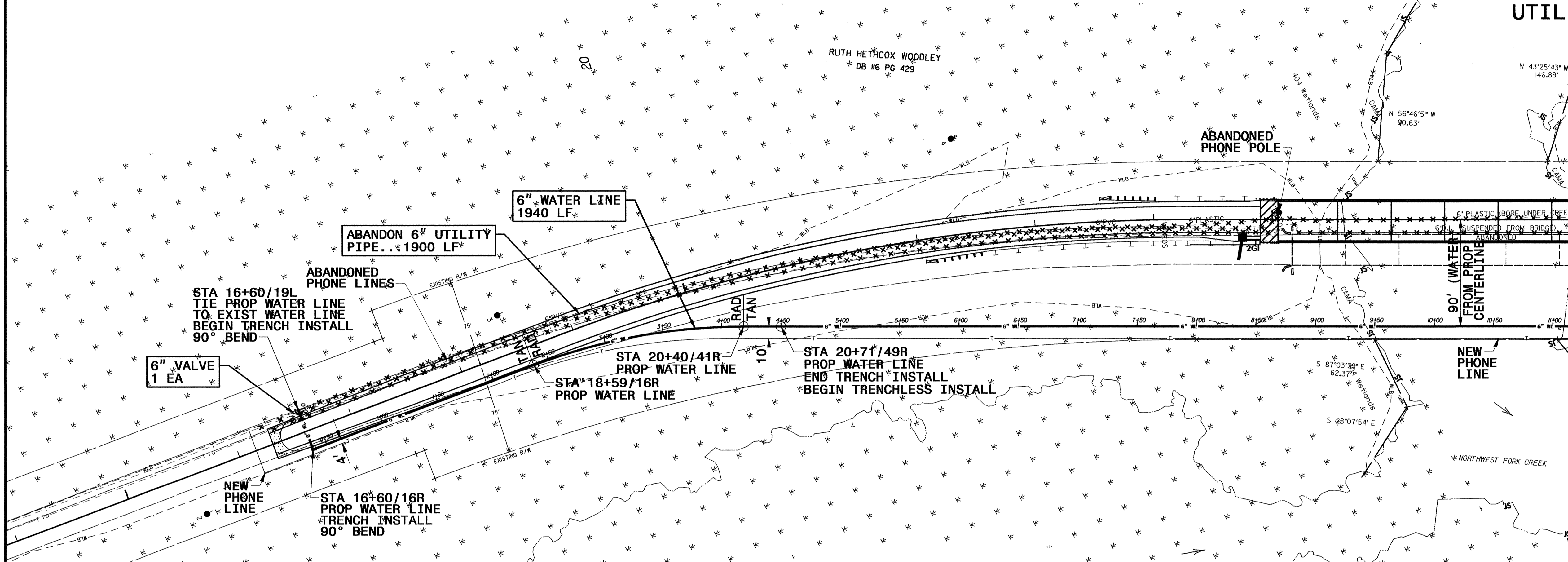
# B-4647 WATER RELOCATION

SCALE:  
 1" = 50' (FULL-SIZE PLANS)  
 1" = 100' (HALF-SIZE PLANS)

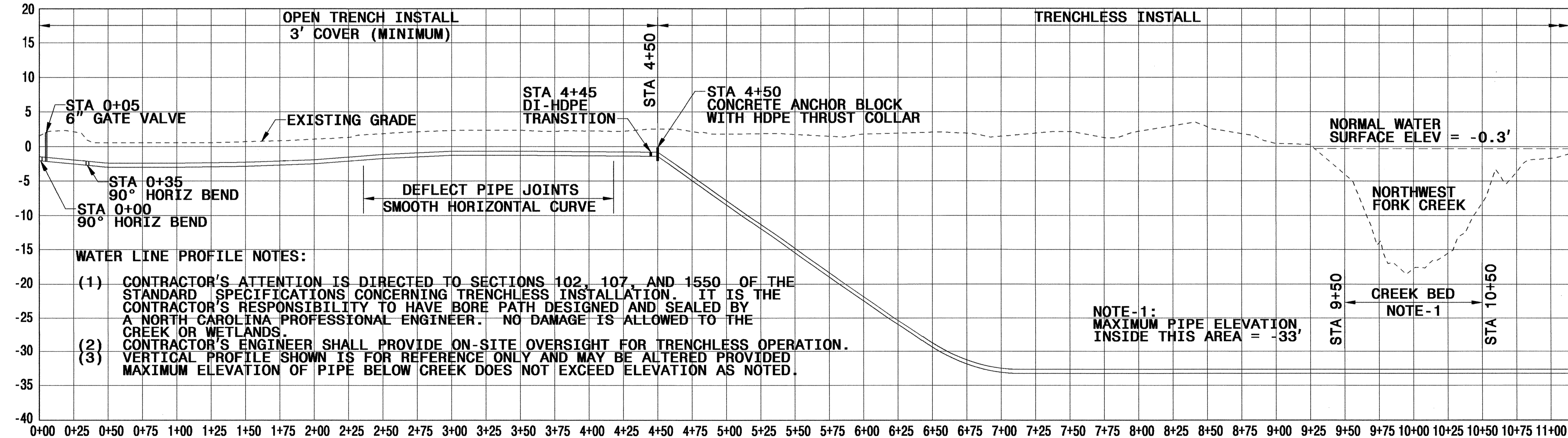
PROJECT REFERENCE NO. <b>B-4647</b>	SHEET NO. <b>UC-2</b>
DESIGNED BY: <b>EWH</b>	
DRAWN BY: <b>EWH</b>	
CHECKED BY: <b>CDB</b>	
APPROVED BY: <b>CDB</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY



UTILITY CONSTRUCTION



WATER LINE PROFILE



- WATER LINE PROFILE NOTES:**
- (1) CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE BORE PATH DESIGNED AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO THE CREEK OR WETLANDS.
  - (2) CONTRACTOR'S ENGINEER SHALL PROVIDE ON-SITE OVERSIGHT FOR TRENCHLESS OPERATION.
  - (3) VERTICAL PROFILE SHOWN IS FOR REFERENCE ONLY AND MAY BE ALTERED PROVIDED MAXIMUM ELEVATION OF PIPE BELOW CREEK DOES NOT EXCEED ELEVATION AS NOTED.

**GENERAL NOTES:**

- (1) ALL PROPOSED WATER LINE INSTALLED BY OPEN TRENCH SHALL BE DUCTILE IRON PIPE WITH RESTRAINED JOINTS AND ALL FITTINGS, VALVES TEES, HYDRANTS, ETC. SHALL BE RESTRAINED USING MECHANICAL JOINT RETAINING GLANDS WITH FULL CIRCUMFERENTIAL PIPE RESTRAINT.
- (2) ALL PROPOSED WATER LINE INSTALLED BY TRENCHLESS (HORIZONTAL DIRECTIONAL DRILL) METHOD TO BE HDPE PIPE (DR-9) WITH FUSED JOINTS AND WILL HAVE AN INSIDE DIAMETER EQUAL TO OR GREATER THAN 6".

PROFILE SCALE:  
 HORIZONTAL: 1" = 50' (FULL-SIZE PLANS)  
 VERTICAL: 1" = 10' (FULL-SIZE PLANS)

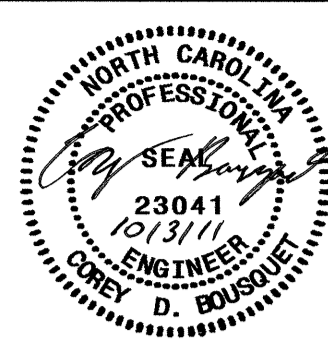
L-STA 27+50 MATCHLINE...SEE SHEET UC-3

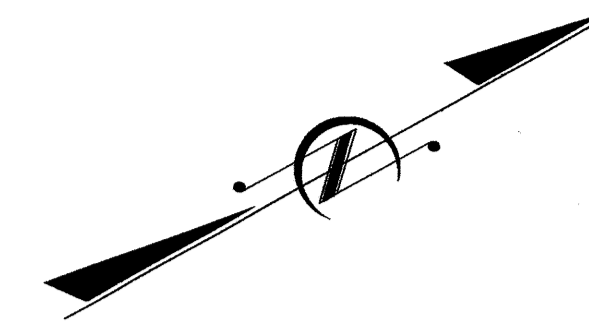
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# B-4647 WATER RELOCATION

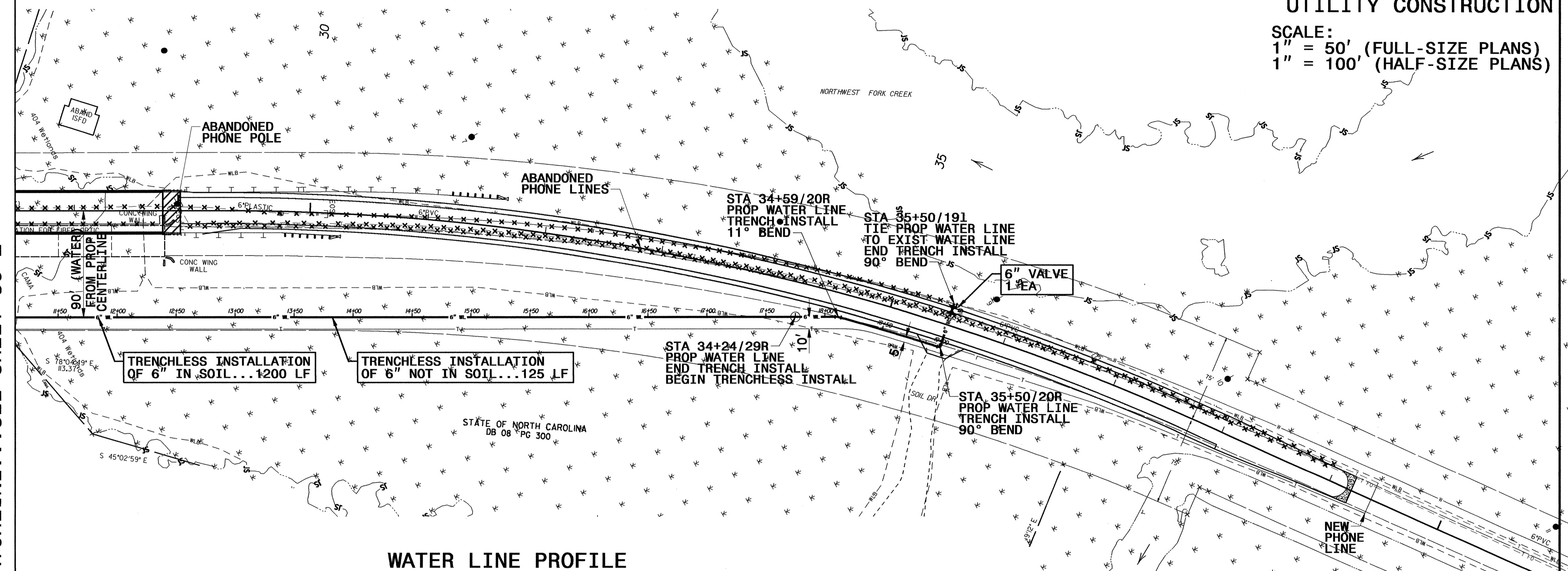
PROJECT REFERENCE NO. <b>B-4647</b>	SHEET NO. <b>UC-3</b>
DESIGNED BY: <b>EWH</b>	
DRAWN BY: <b>EWH</b>	
CHECKED BY: <b>CDB</b>	
APPROVED BY: <b>CDB</b>	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151



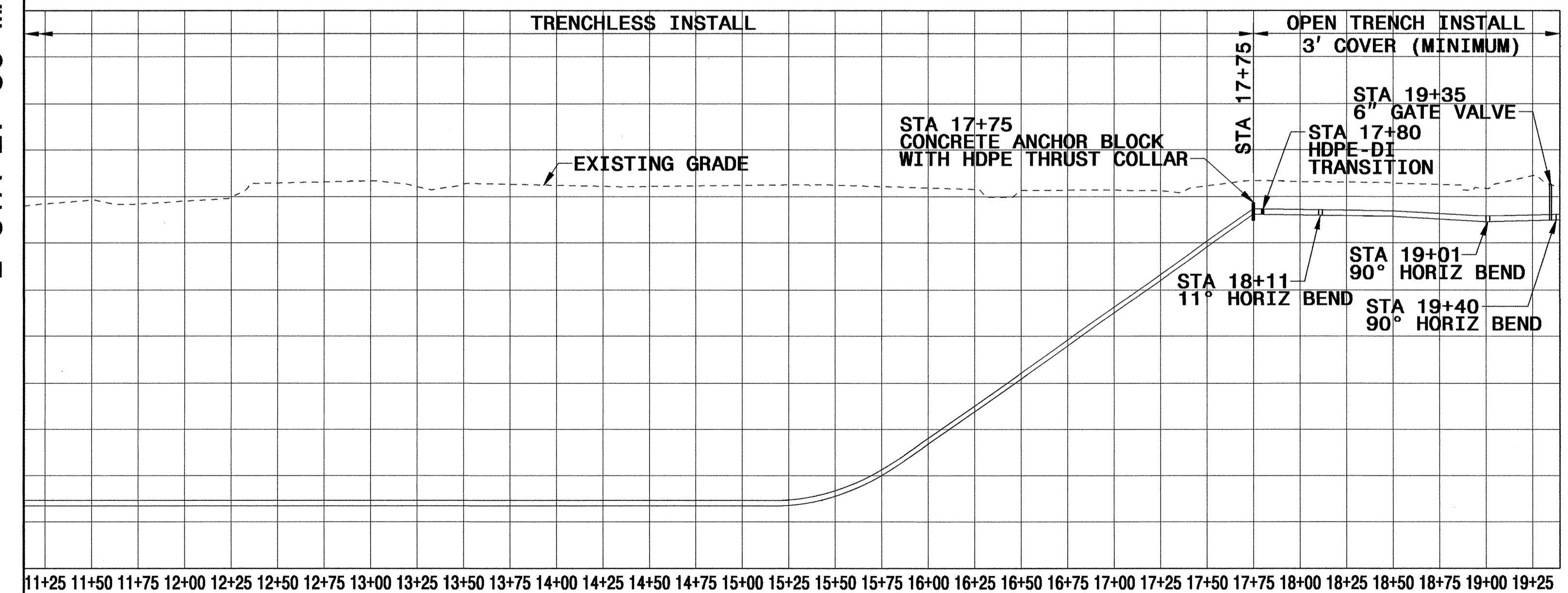
## UTILITY CONSTRUCTION

SCALE:  
 1" = 50' (FULL-SIZE PLANS)  
 1" = 100' (HALF-SIZE PLANS)

L-STA 27+50 MATCHLINE...SEE SHEET UC-2



### WATER LINE PROFILE



PROFILE SCALE:  
 HORIZONTAL: 1" = 50' (FULL-SIZE PLANS)  
 VERTICAL: 1" = 10' (FULL-SIZE PLANS)

**GENERAL NOTES CONTINUED:**

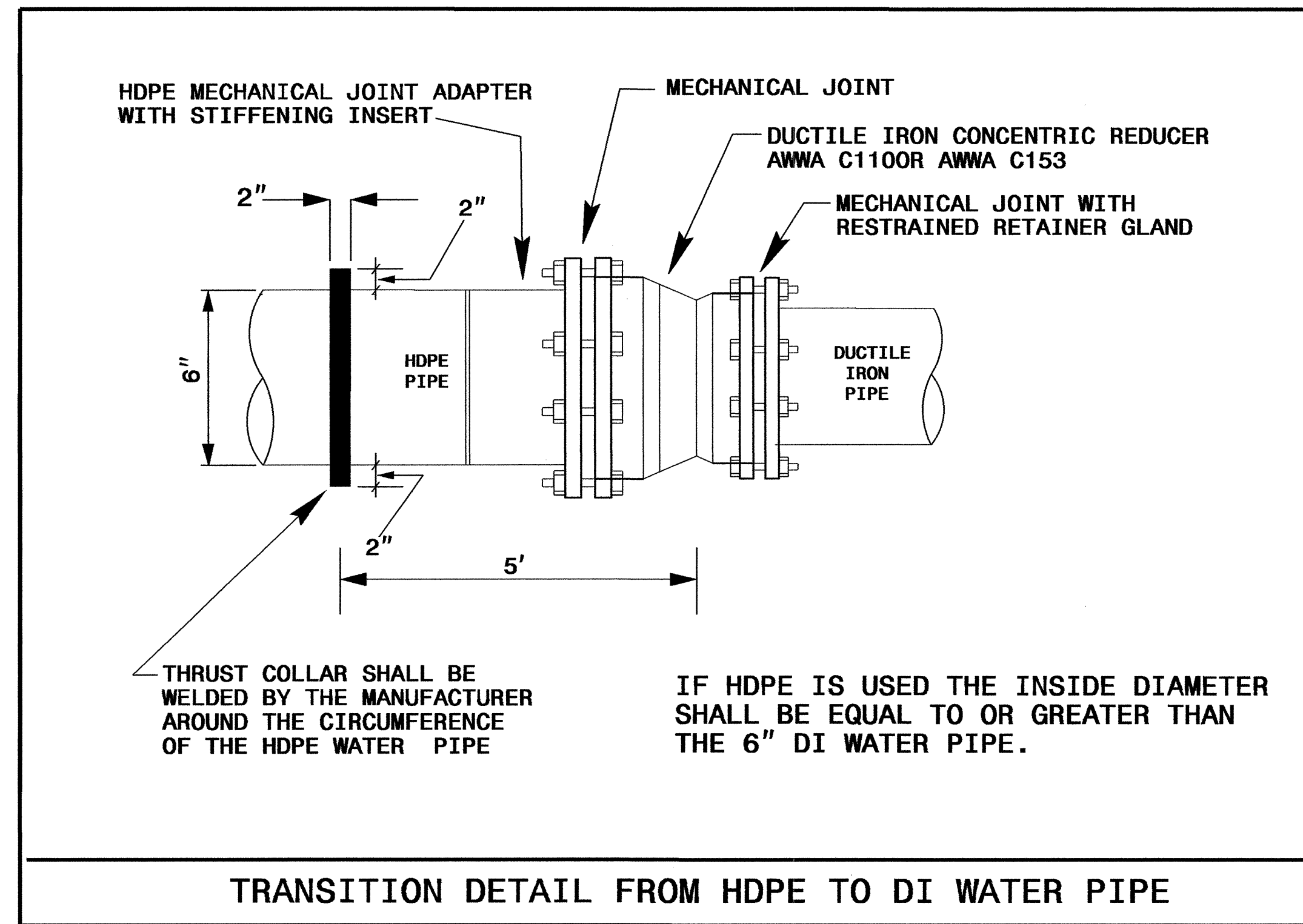
- (3) ALL JOINT RESTRAINTS, FITTINGS, PIPE BEDDING MATERIAL, CONCRETE ANCHOR BLOCKS, AND DEWATERING OF TRENCH EXCAVATION WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "6" WATER LINE" AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
- (4) ALL FITTINGS, VALVES, TEES, ETC. SHALL BE SUPPORTED WITH #57 STONE.

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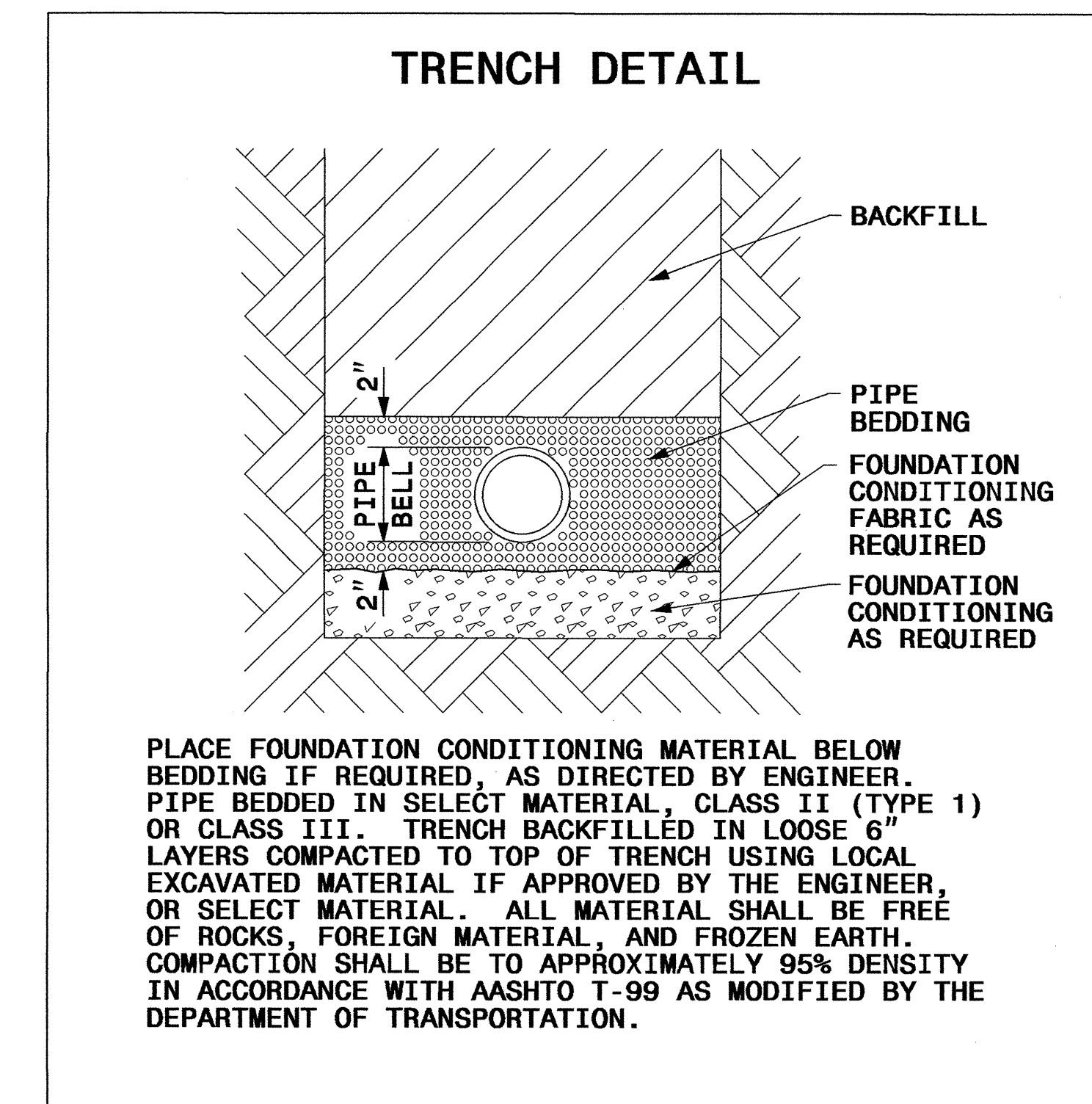
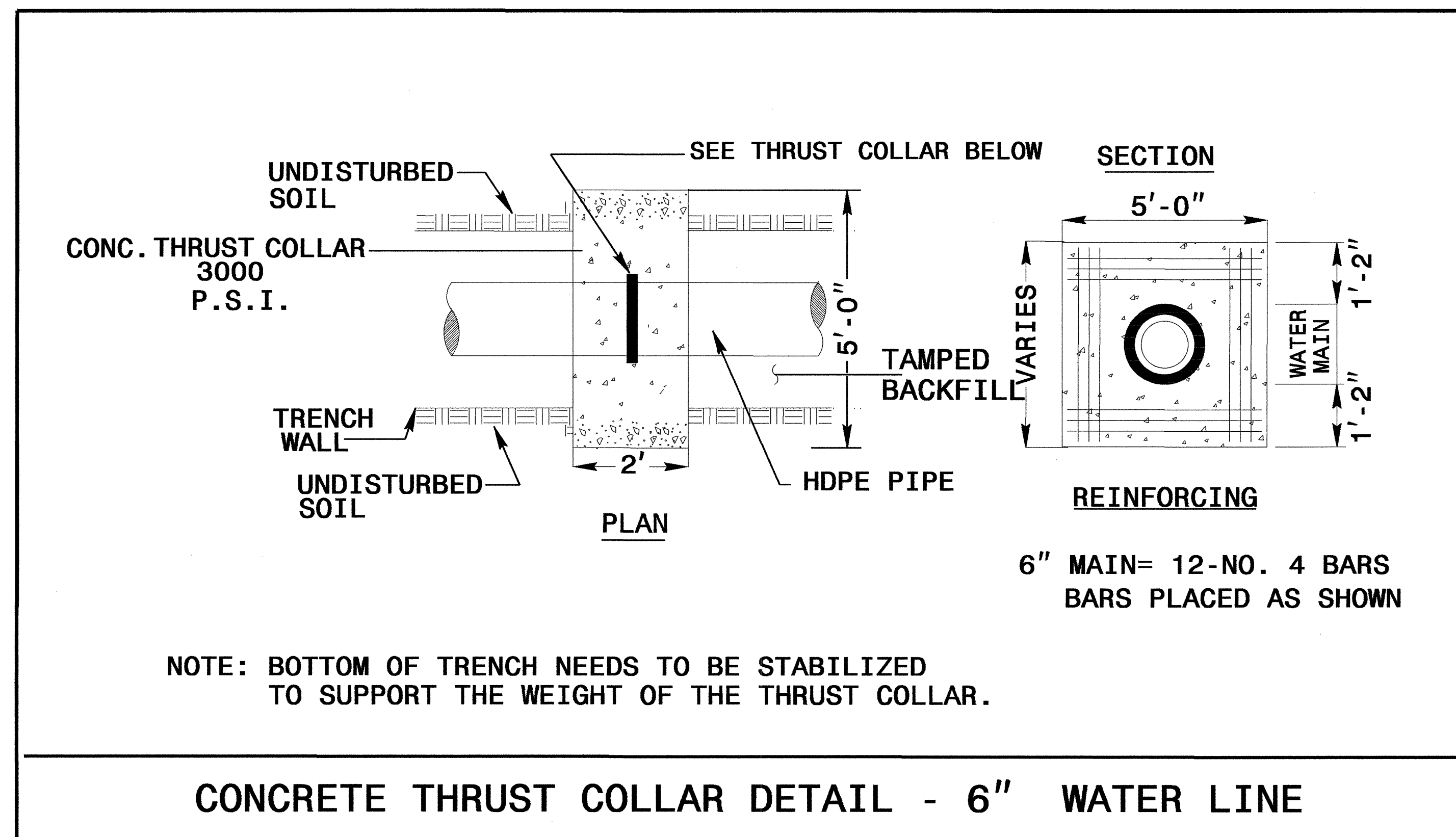
# B-4647 DETAIL SHEET

PROJECT REFERENCE NO.	SHEET NO.
<b>B-4647</b>	<b>UC-4</b>
DESIGNED BY: <b>EWI</b>	
DRAWN BY: <b>EWI</b>	
CHECKED BY: <b>CDB</b>	
APPROVED BY: <b>CDB</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

## UTILITY CONSTRUCTION



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





09/08/99

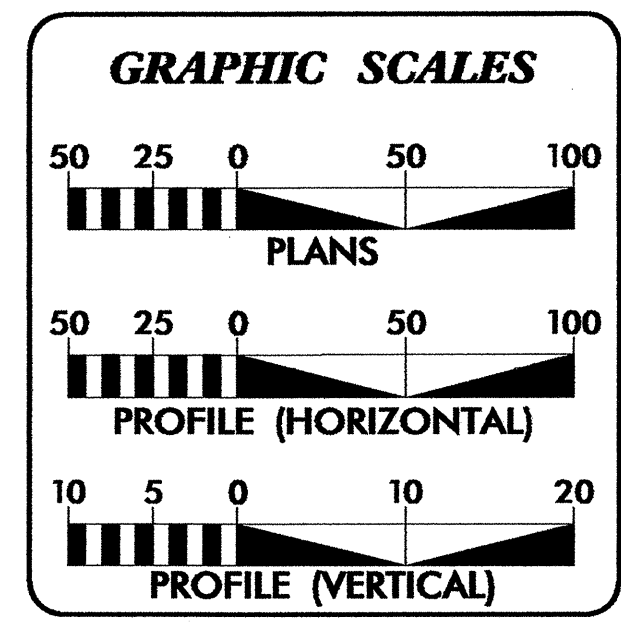
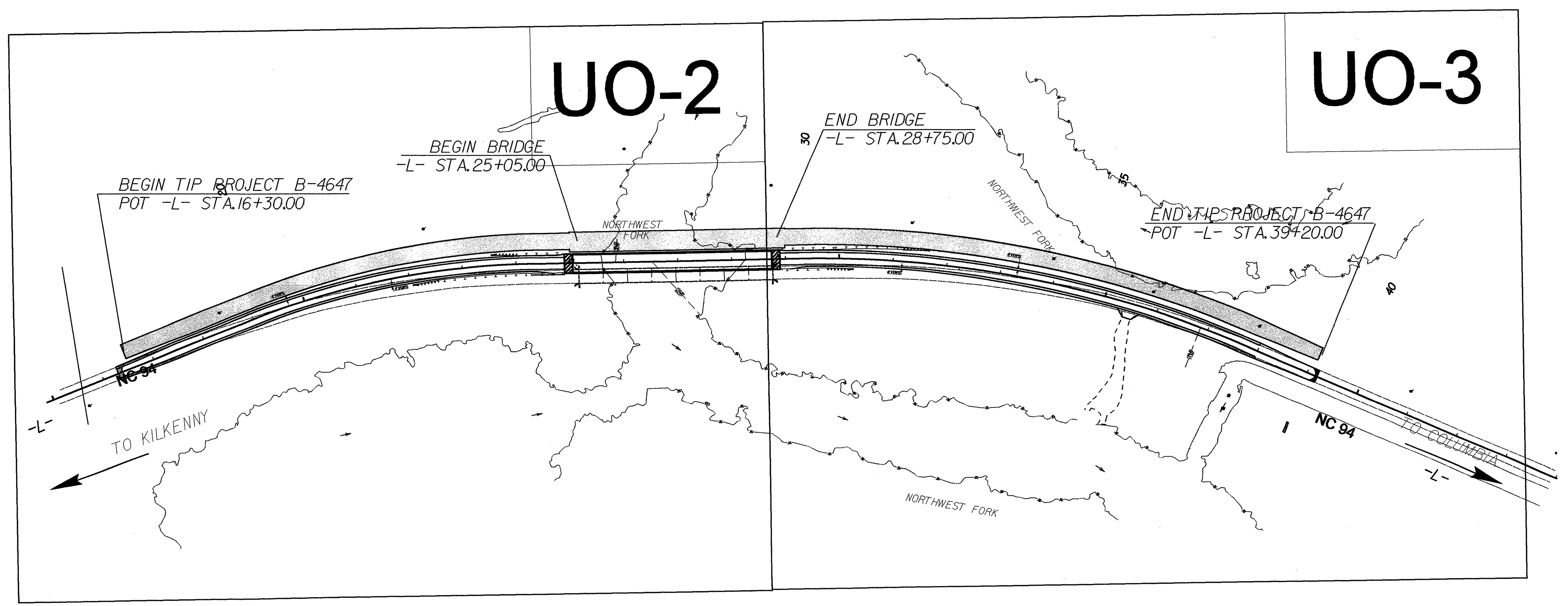
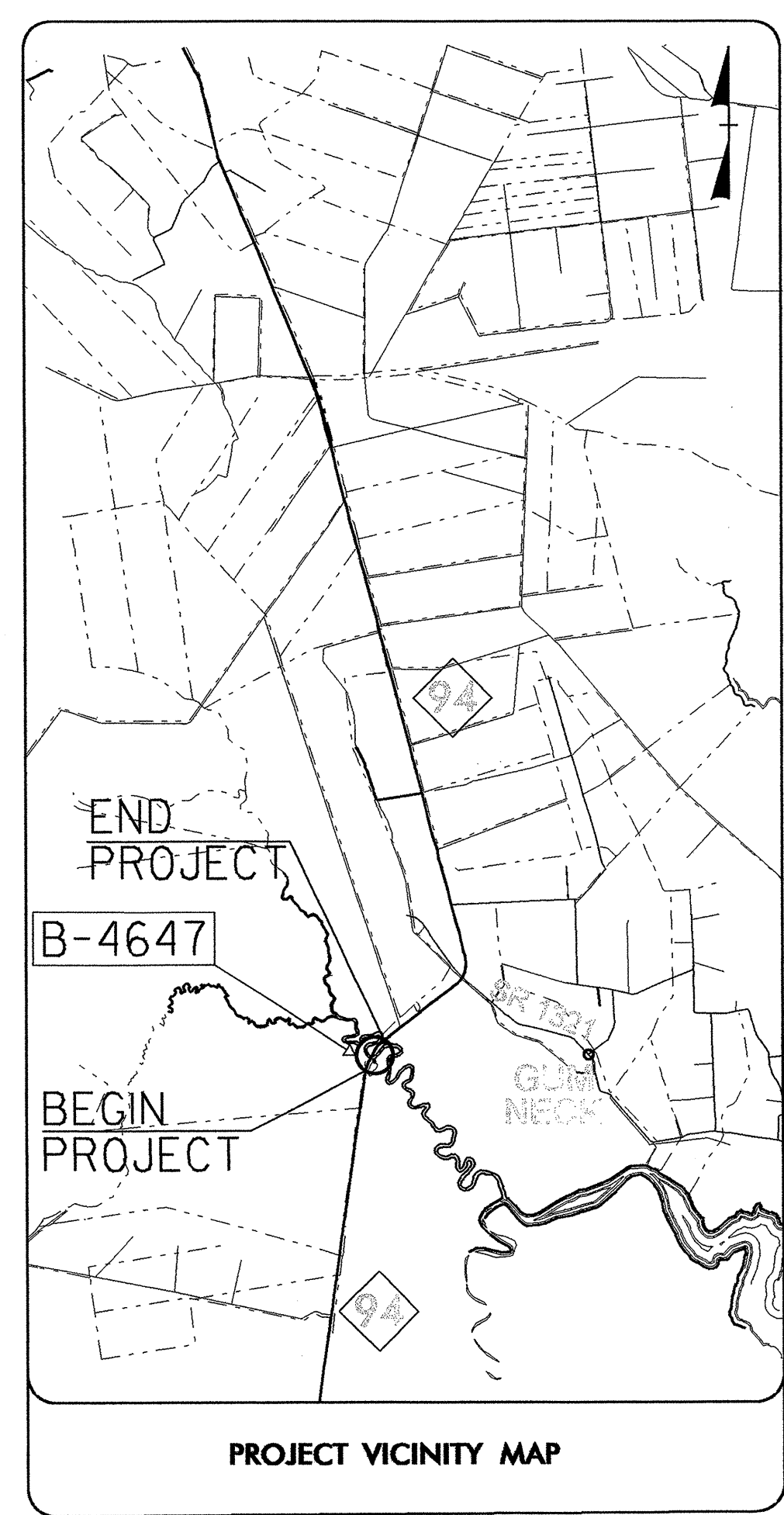
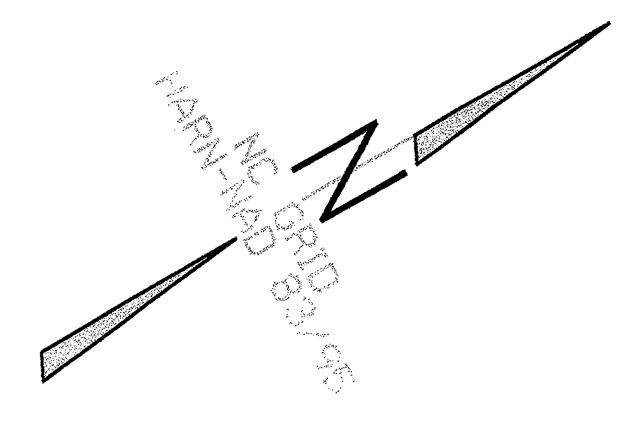
TIP PROJECT: B-4647

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
B-4647	UO-1

UTILITIES BY OTHERS PLANS  
TYRRELL COUNTY

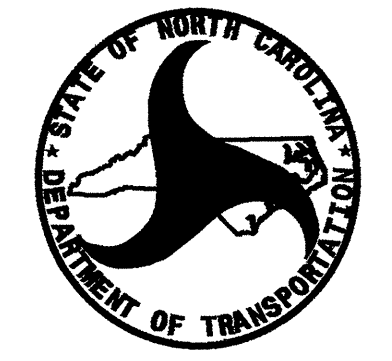
LOCATION: BRIDGE NO. 6 OVER NORTHWEST FORK ON NC-94  
TYPE OF WORK: TELEPHONE LINE RELOCATIONS



SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2, UO3	PLAN SHEETS

UTILITY OWNERS ON PROJECT

(1) TELEPHONE...CENTURLINK



PREPARED IN THE OFFICE OF:  
DIVISION OF HIGHWAYS  
UTILITIES ENGINEERING SECTION

1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
PHONE (919) 707-6690  
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER  
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER  
Eric Haugaard UTILITIES PROJECT DESIGNER

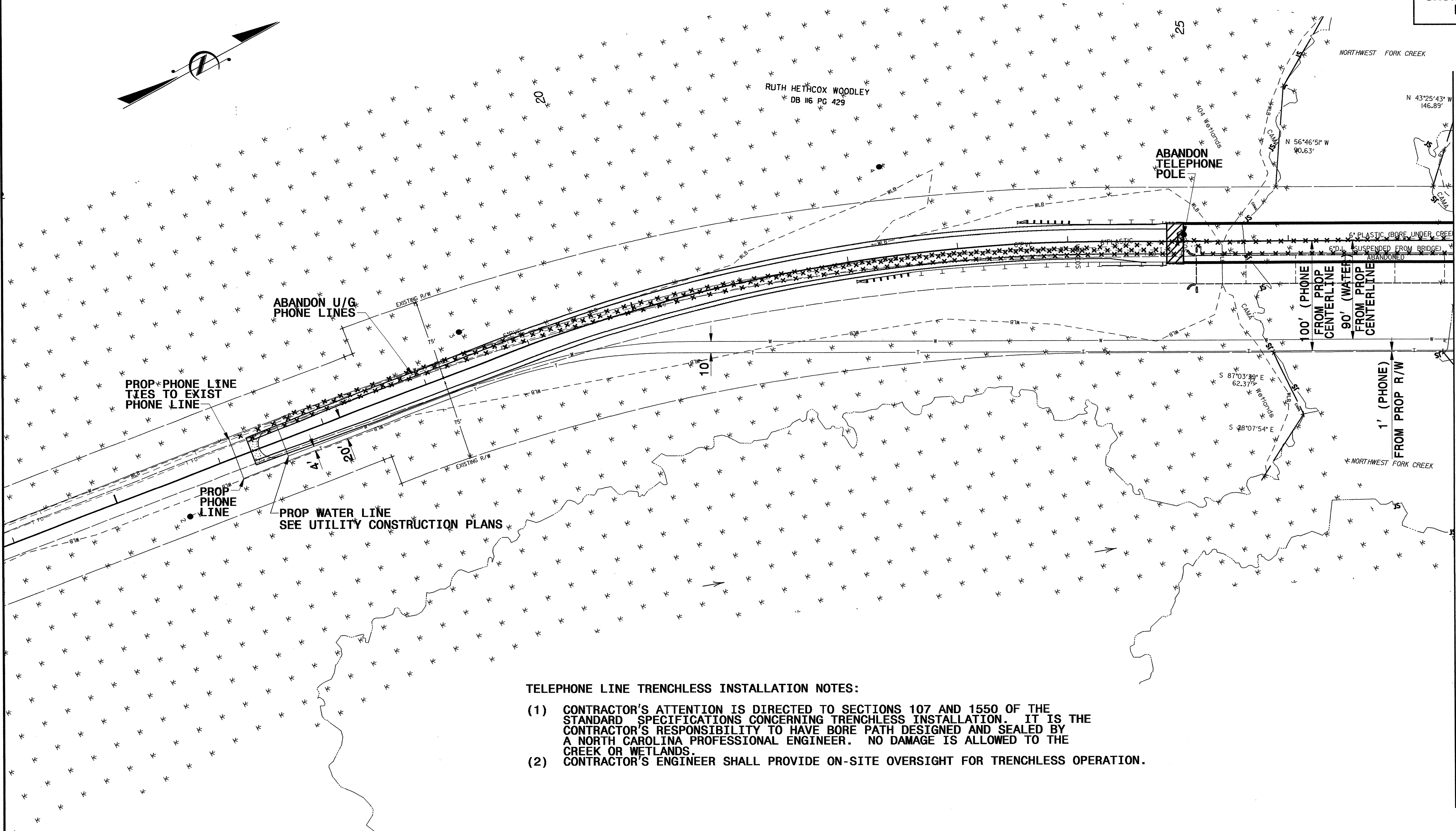
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**UTILITIES BY OTHERS**

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

**SCALE:**  
1" = 50' (FULL-SIZE PLANS)  
1" = 100' (HALF-SIZE PLANS)

# B-4647 TELEPHONE RELOCATION



**TELEPHONE LINE TRENCHLESS INSTALLATION NOTES:**

- (1) CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 107 AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE BORE PATH DESIGNED AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO THE CREEK OR WETLANDS.
- (2) CONTRACTOR'S ENGINEER SHALL PROVIDE ON-SITE OVERSIGHT FOR TRENCHLESS OPERATION.

L-STA 27+50 MATCHLINE... SEE SHEET U0-3

5/14/99

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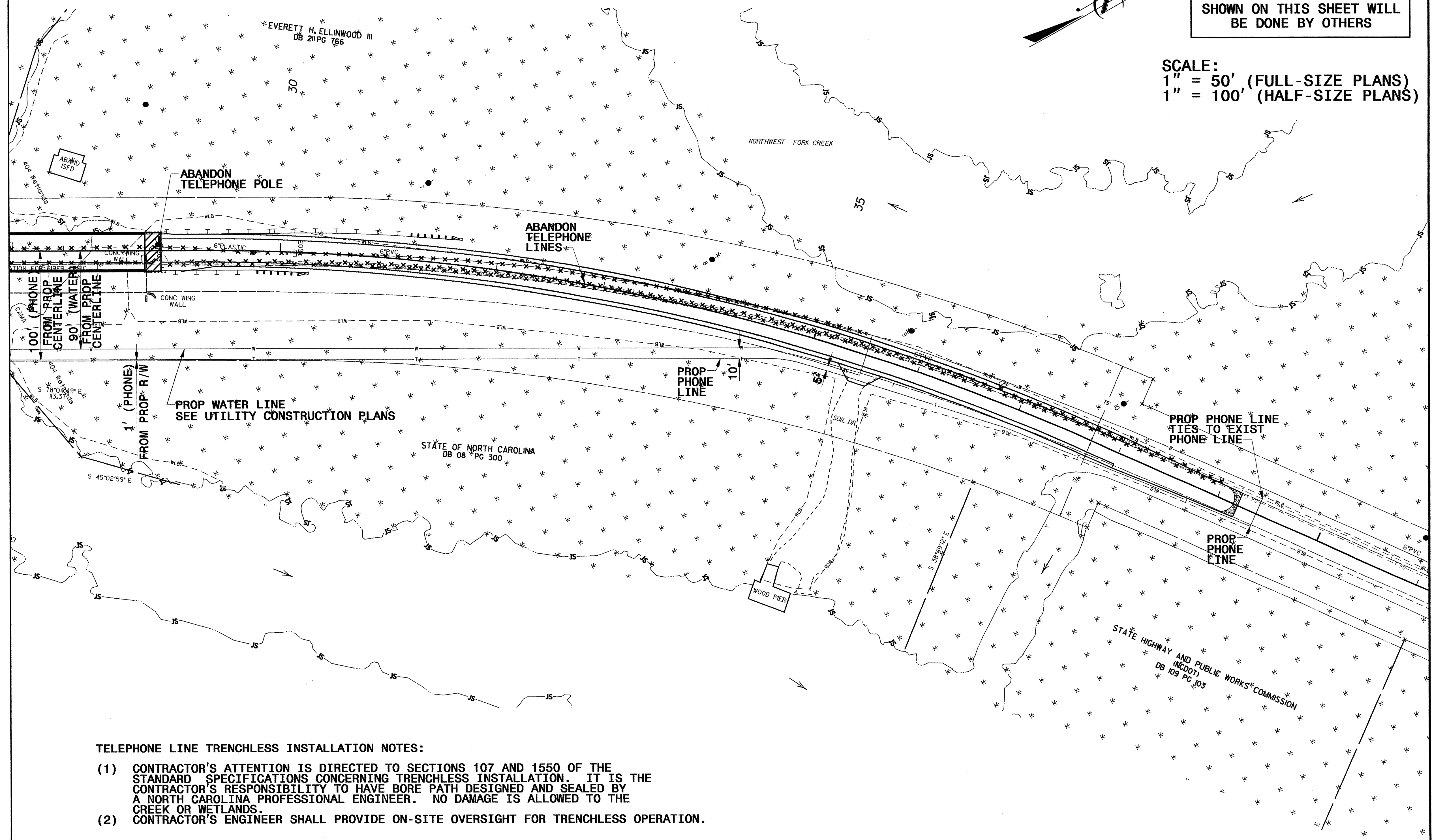
# B-4647 TELEPHONE RELOCATION

## UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

SCALE:  
1" = 50' (FULL-SIZE PLANS)  
1" = 100' (HALF-SIZE PLANS)

L-STA 27+50 MATCHLINE...SEE SHEET U0-2



- TELEPHONE LINE TRENCHLESS INSTALLATION NOTES:
- (1) CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 107 AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE BORE PATH DESIGNED AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO THE CREEK OR WETLANDS.
  - (2) CONTRACTOR'S ENGINEER SHALL PROVIDE ON-SITE OVERSIGHT FOR TRENCHLESS OPERATION.