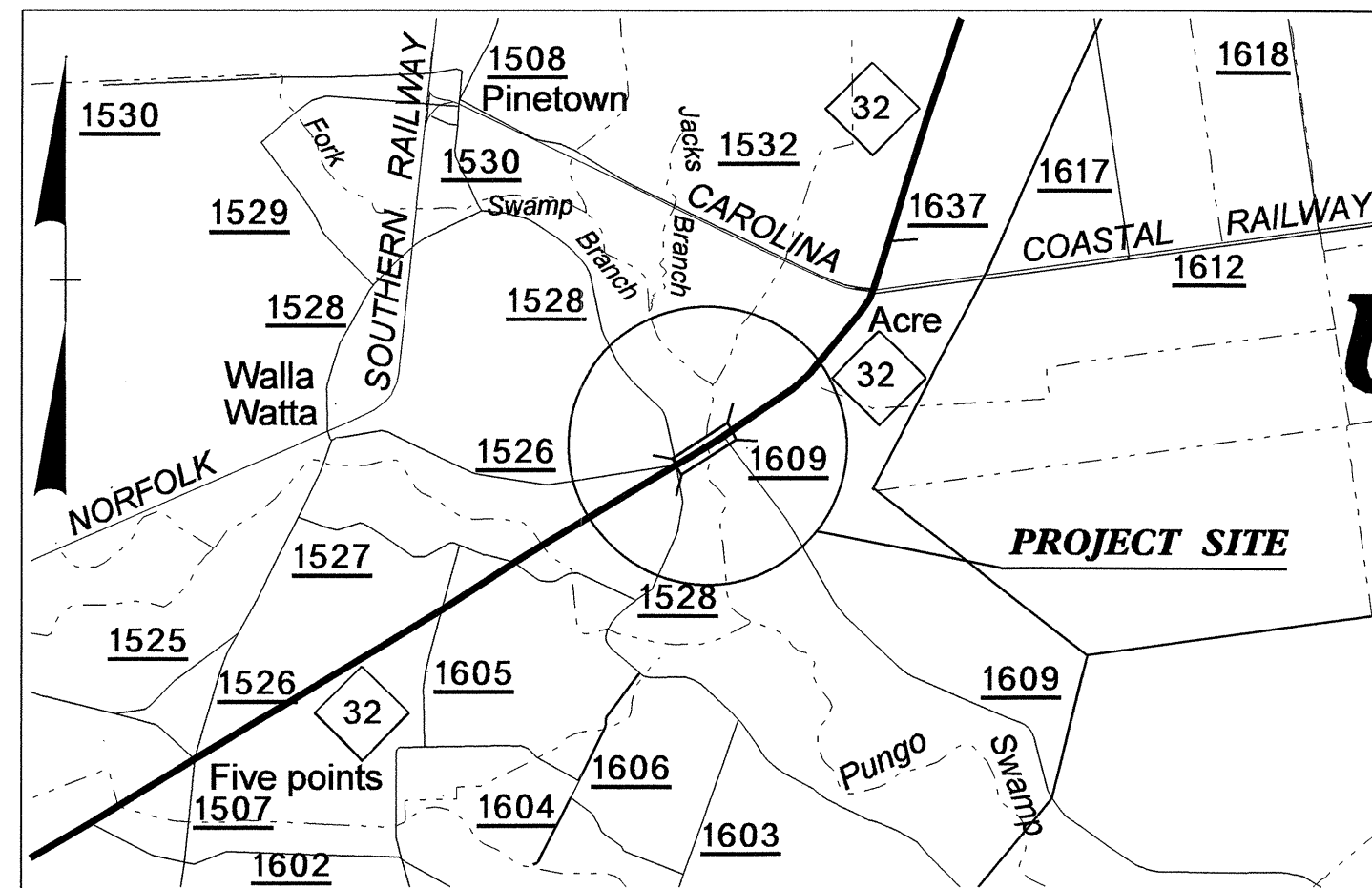


09/08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

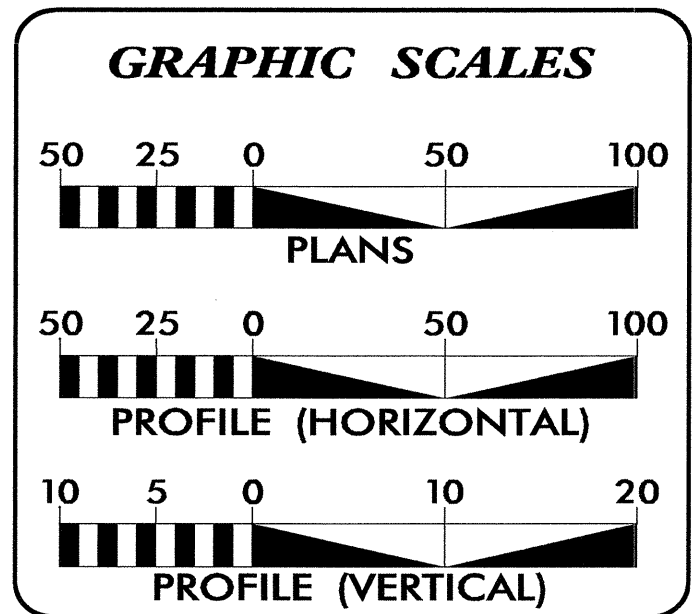
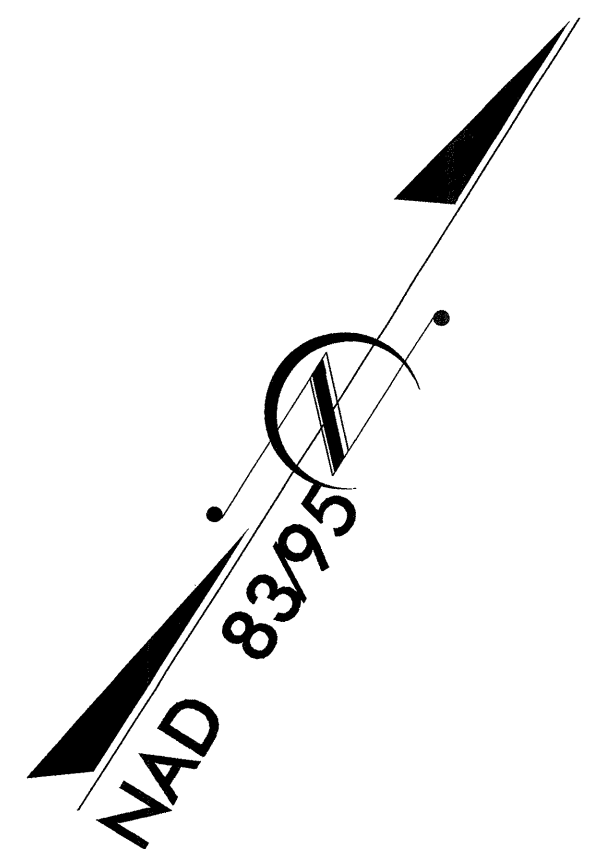
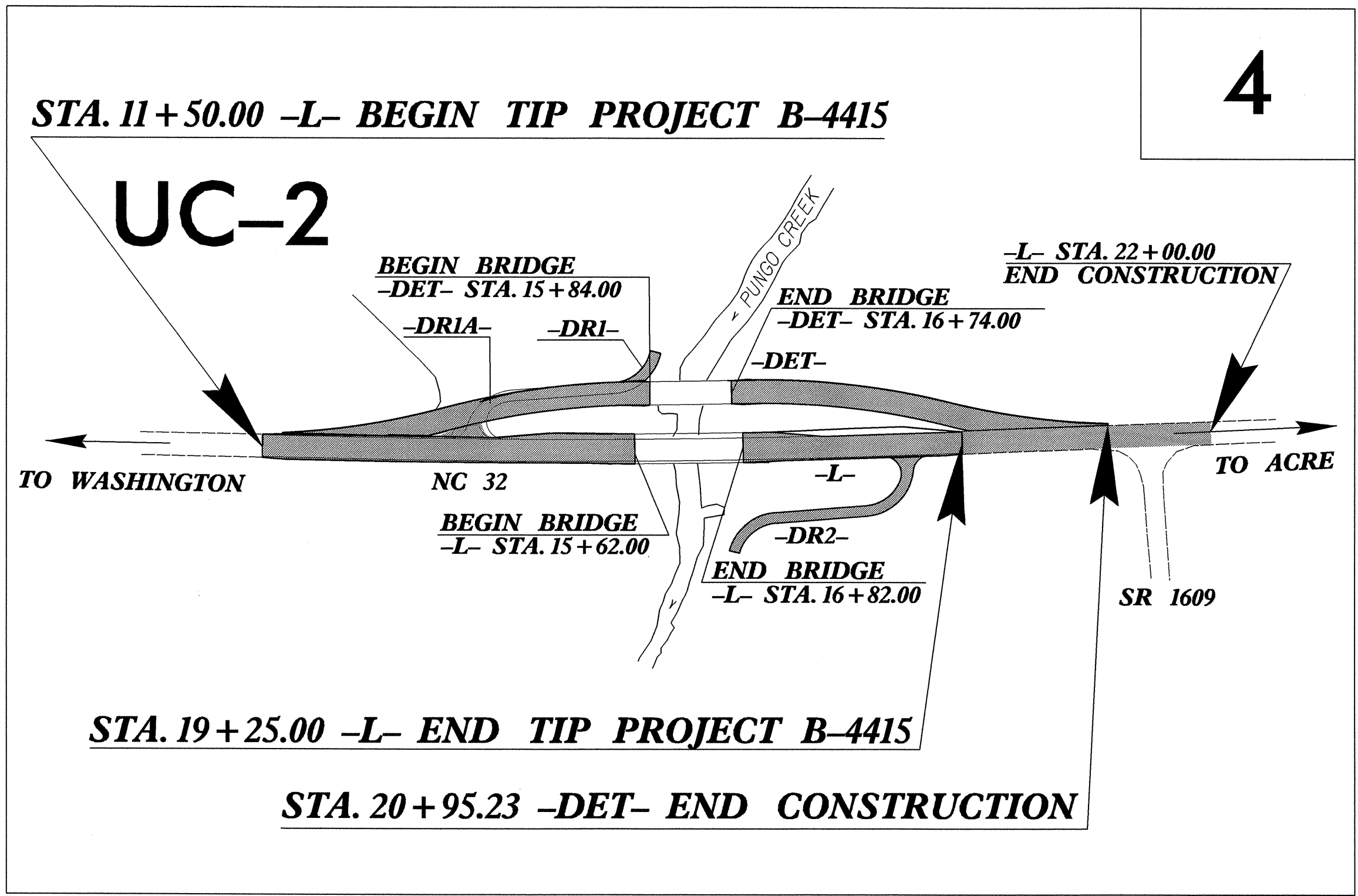
UTILITY CONSTRUCTION PLANS
BEAUFORT COUNTY

LOCATION: BRIDGE NO. 21 OVER PUNGO CREEK ON NC 32

TYPE OF WORK: RELOCATE WATER LINE

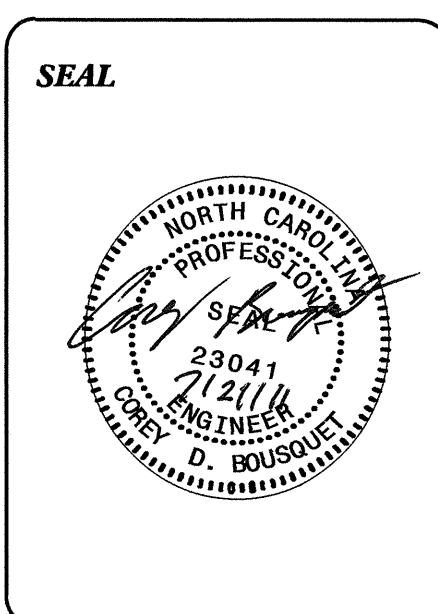
T.I.P. NO.	SHEET NO.
B-4415	UC-1

TIP PROJECT: B-4415



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY CONSTRUCTION PLAN SHEET
UC-3	PROFILE SHEET

WATER AND SEWER OWNERS ON PROJECT
(1) BEAUFORT WATER COUNTY

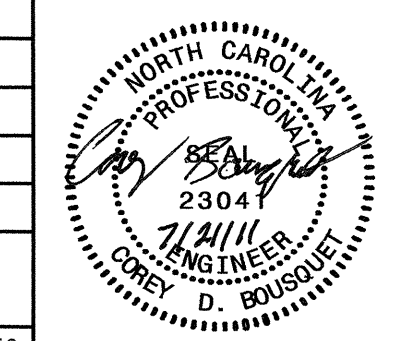


PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 250-4128
FAX (919) 250-4151

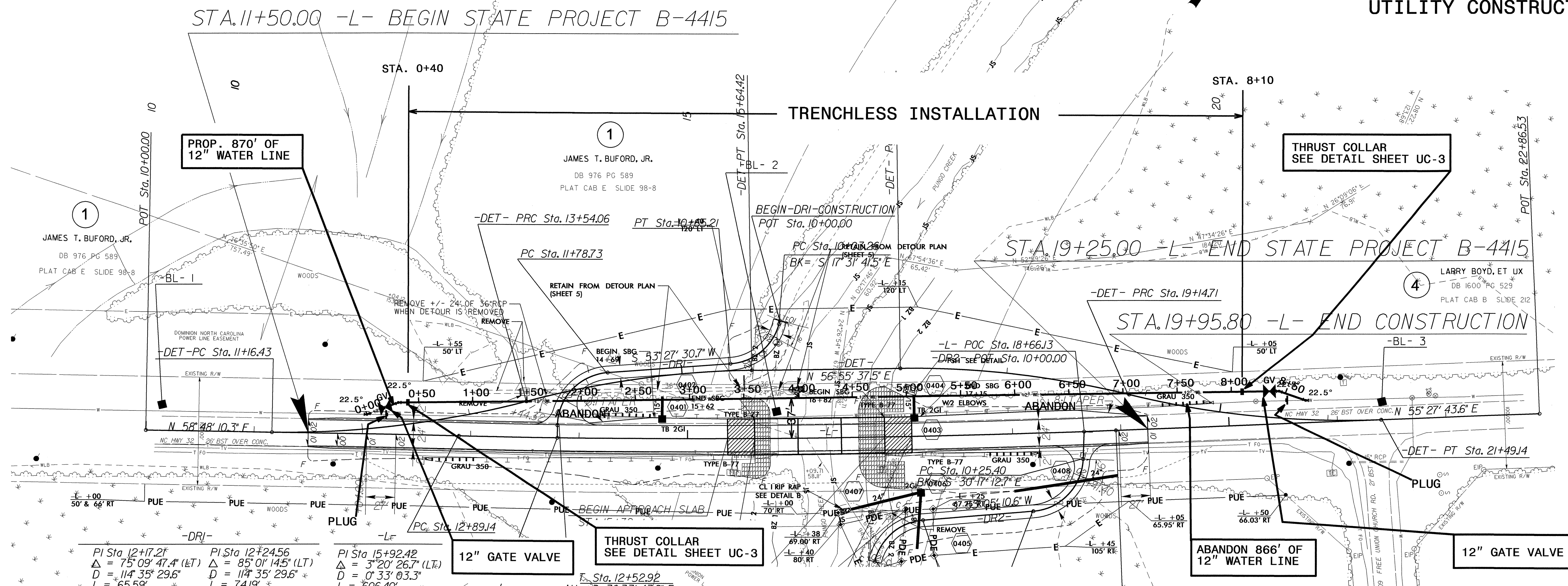
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Kifah Kamil UTILITIES PROJECT DESIGNER

14-JUL-2011 11:59
P:\Utilities\VRdy_Ut\Proj\B4415_ut_ucl.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$



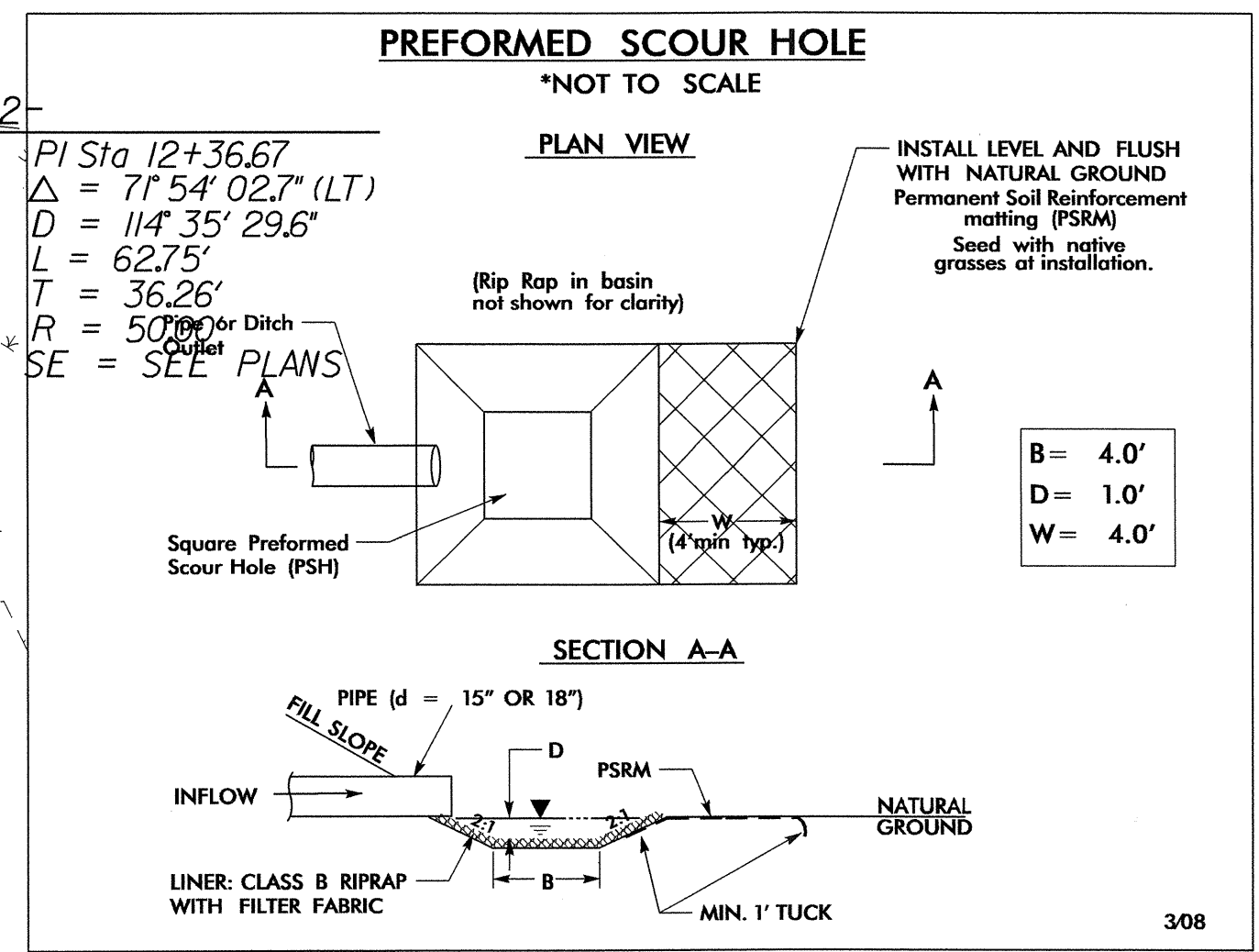
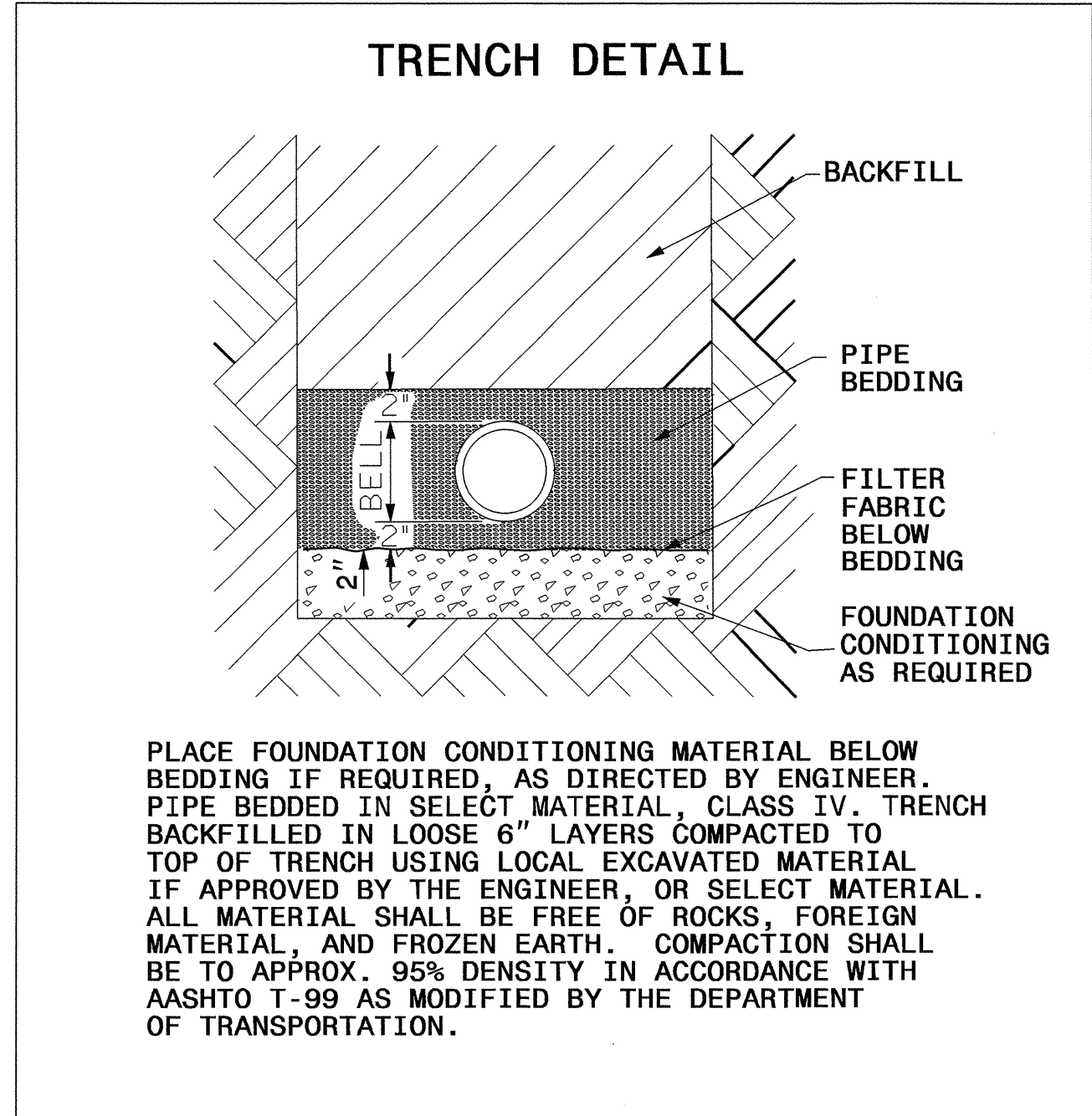
**693' OF TRENCHLESS INSTALLATION OF 12" IN SOIL
 77' OF TRENCHLESS INSTALLATION OF 12" NOT IN SOIL**

UTILITY CONSTRUCTION



PI Sta 12+17.21 Δ = 75° 09' 47.4" (LT) D = 114' 35" 29.6" L = 65.59' T = 38.48' R = 50.00' SE = *SEE PLANS	PI Sta 12+24.56 Δ = 85° 01' 14.5" (LT) D = 114' 35" 29.6" L = 74.19' T = 45.83' R = 50.00' SE = *SEE PLANS	PI Sta 15+92.42 Δ = 3° 20' 26.7" (LT) D = 0' 33' 03.3" L = 606.40' T = 303.28' R = 10,400.00' SE = *02 RO = 54'
--	--	--

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
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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		

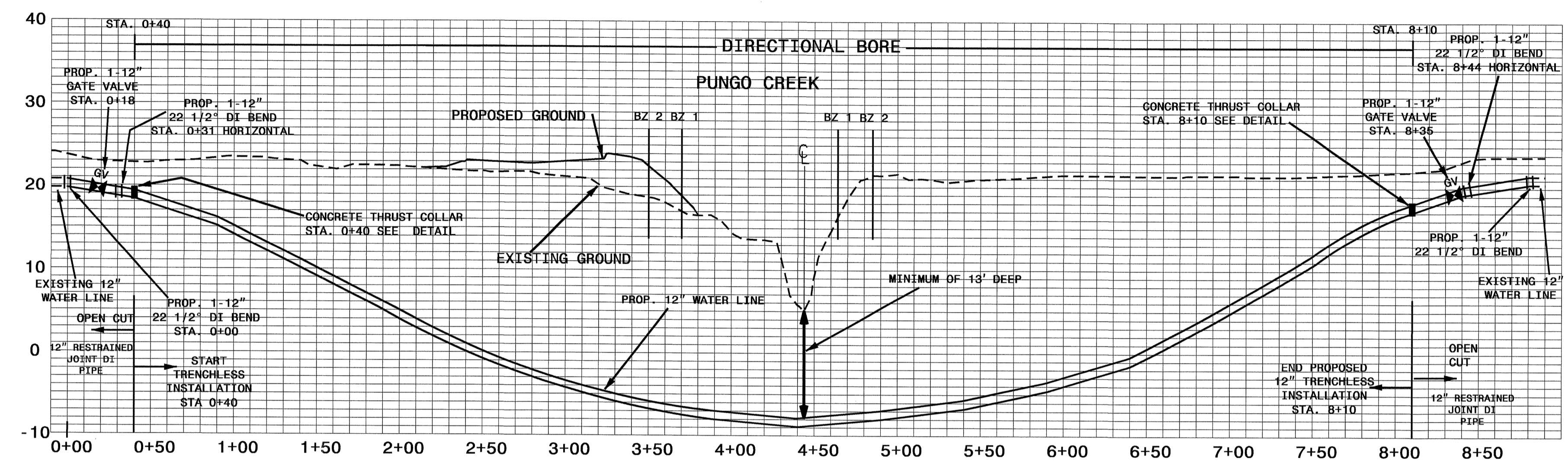


REVISIONS

SBG: SHOULDER BERM GUTTER
 SBG -L- STA. 14+69 TO -L- STA. 15+62 LT.
 SBG -L- STA. 16+82 TO -L- STA. 17+15 LT.
 FOR -L- PROFILE SEE SHEET 6
 FOR -DRI- & -DR2- PROFILE SEE SHEET 7
 FOR -DET- PLAN VIEW SEE SHEET 5
 FOR STRUCTURES SEE SHEET S10 X

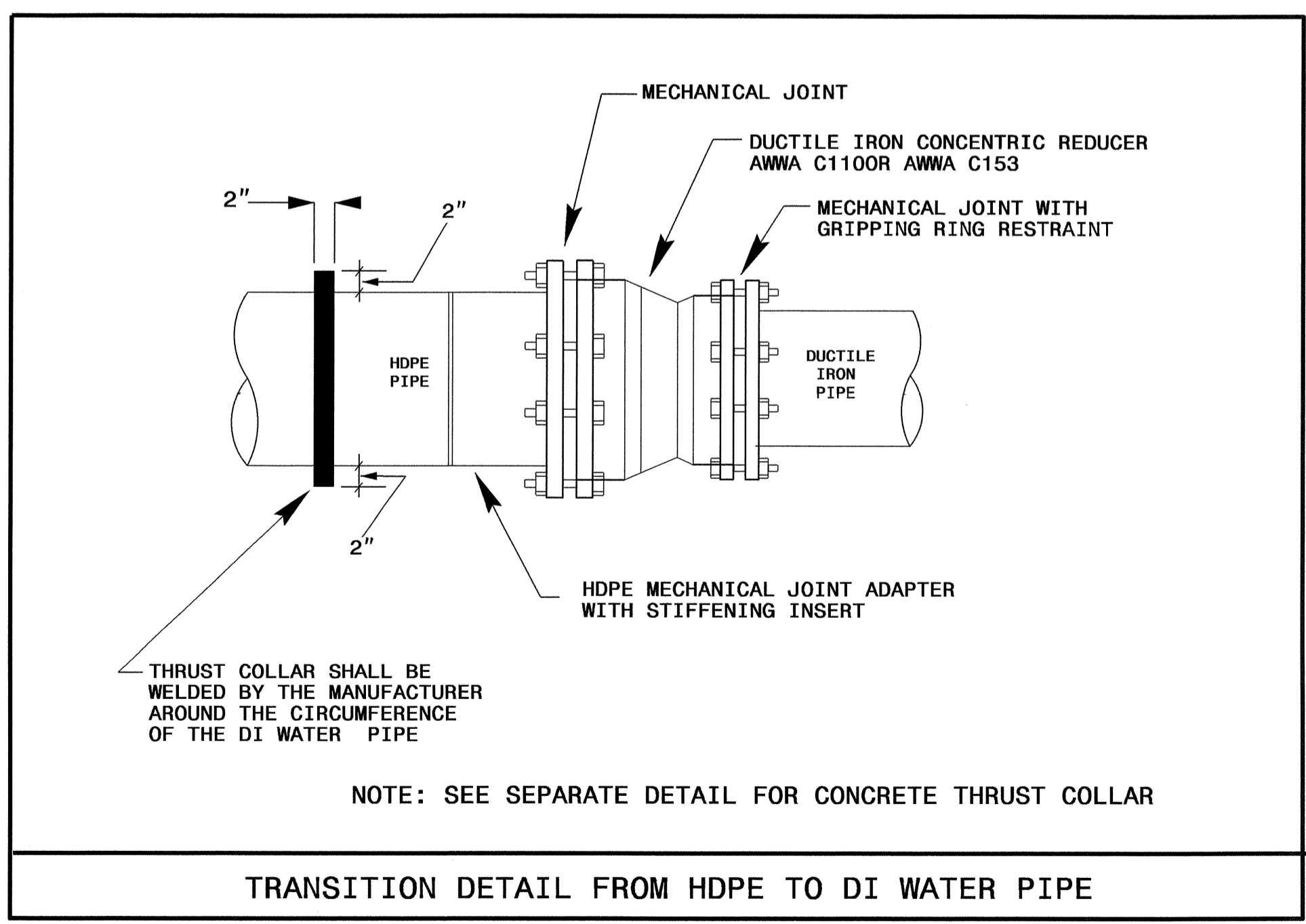
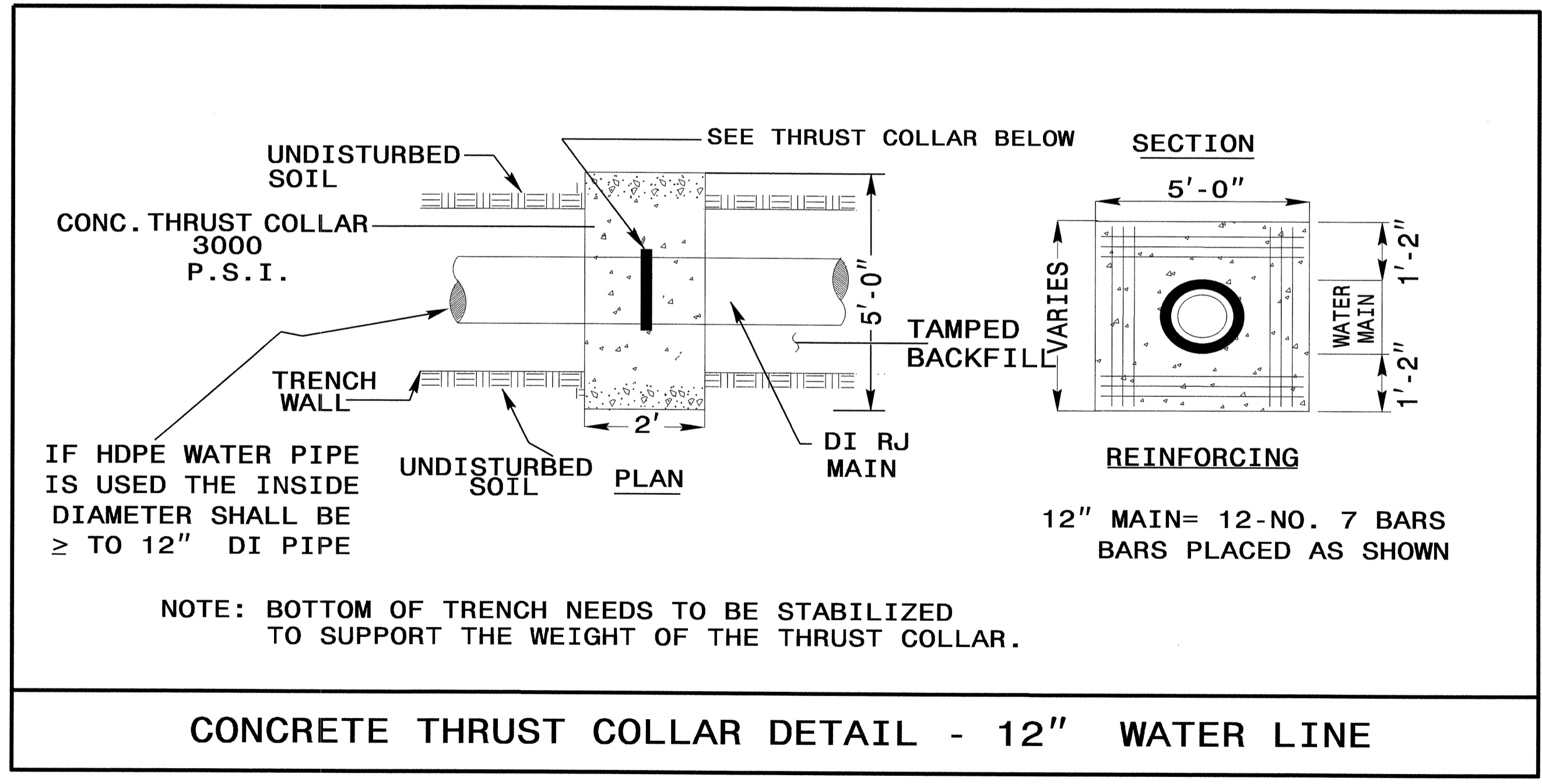
PROJECT REFERENCE NO. B-4415	SHEET NO. UC-3
DESIGNED BY: KAK	
DRAWN BY: KAK	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



DIRECTIONAL DRILL NOTES:

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107 AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING THE TRENCHLESS INSTALLATION. NO DAMAGE IS ALLOWED TO THE WETLAND OR STREAM BY THE TRENCHLESS INSTALLATION. THE CONTRACTOR'S ENGINEER SHALL DESIGN THE INSTALLATION METHOD AND ON-SITE OVERSIGHT.
- THE INSTALLATION AND VERTICAL BORE PATHS SHOWN ARE BASED ON INFORMATION AVAILABLE AT THIS TIME AND ARE FOR PERMITTING REASONS ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN/ENGINEER THE PROPOSED ALIGNMENTS.

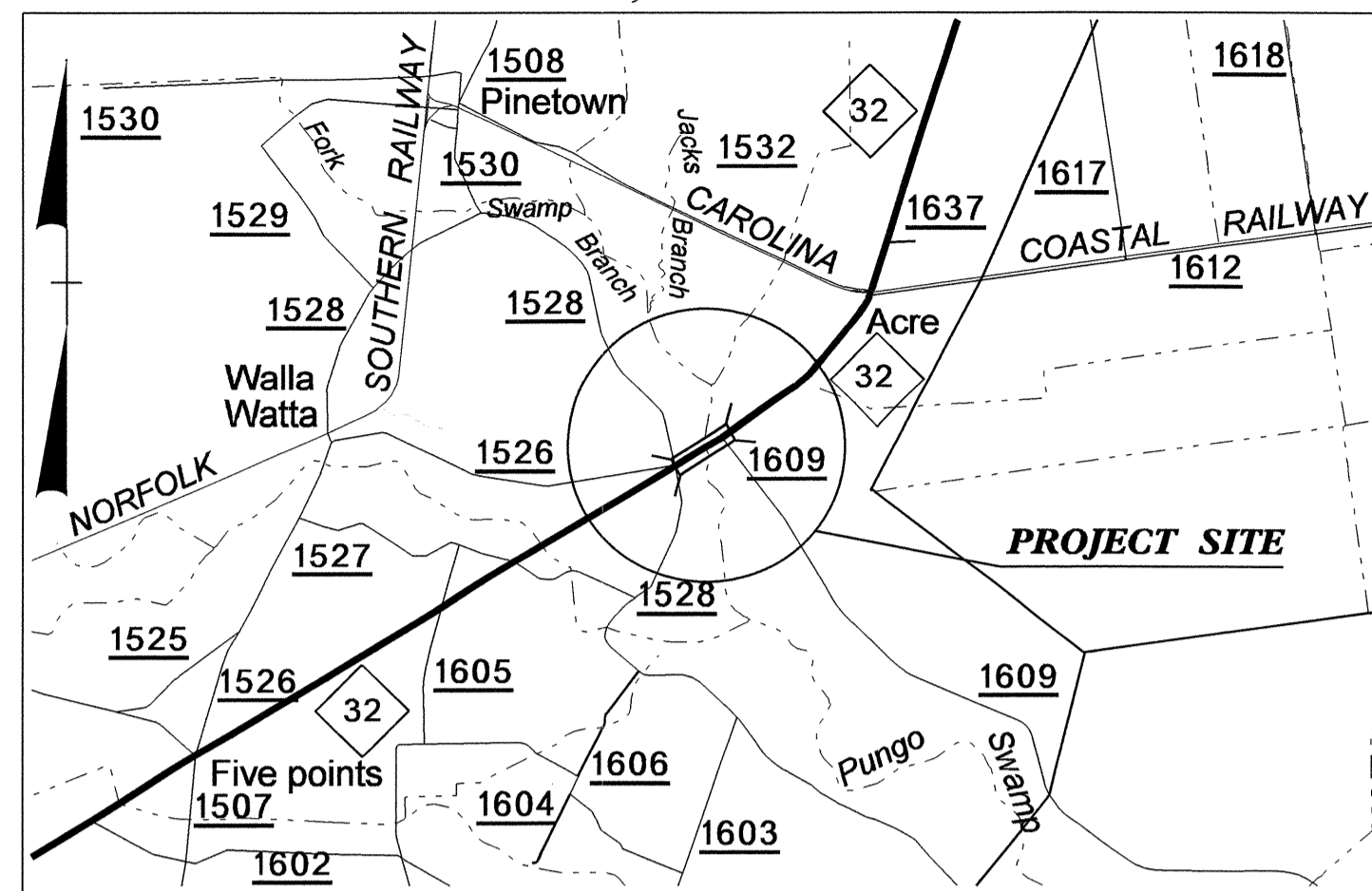


09/08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

T.I.P. NO.	SHEET NO.
B-4415	UO-1

TIP PROJECT: B-4415



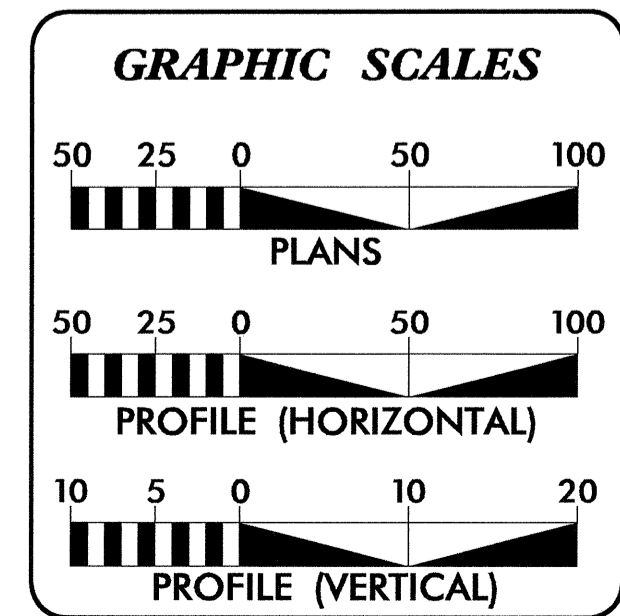
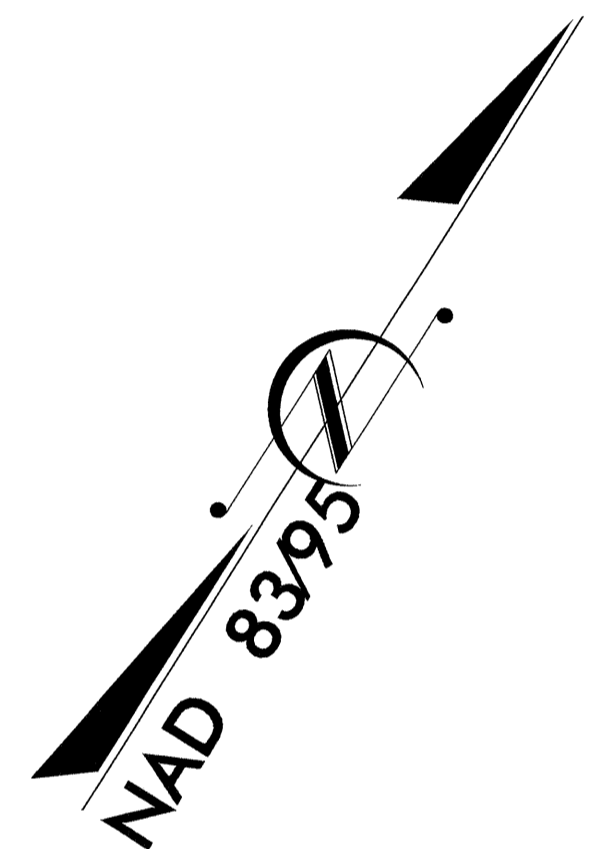
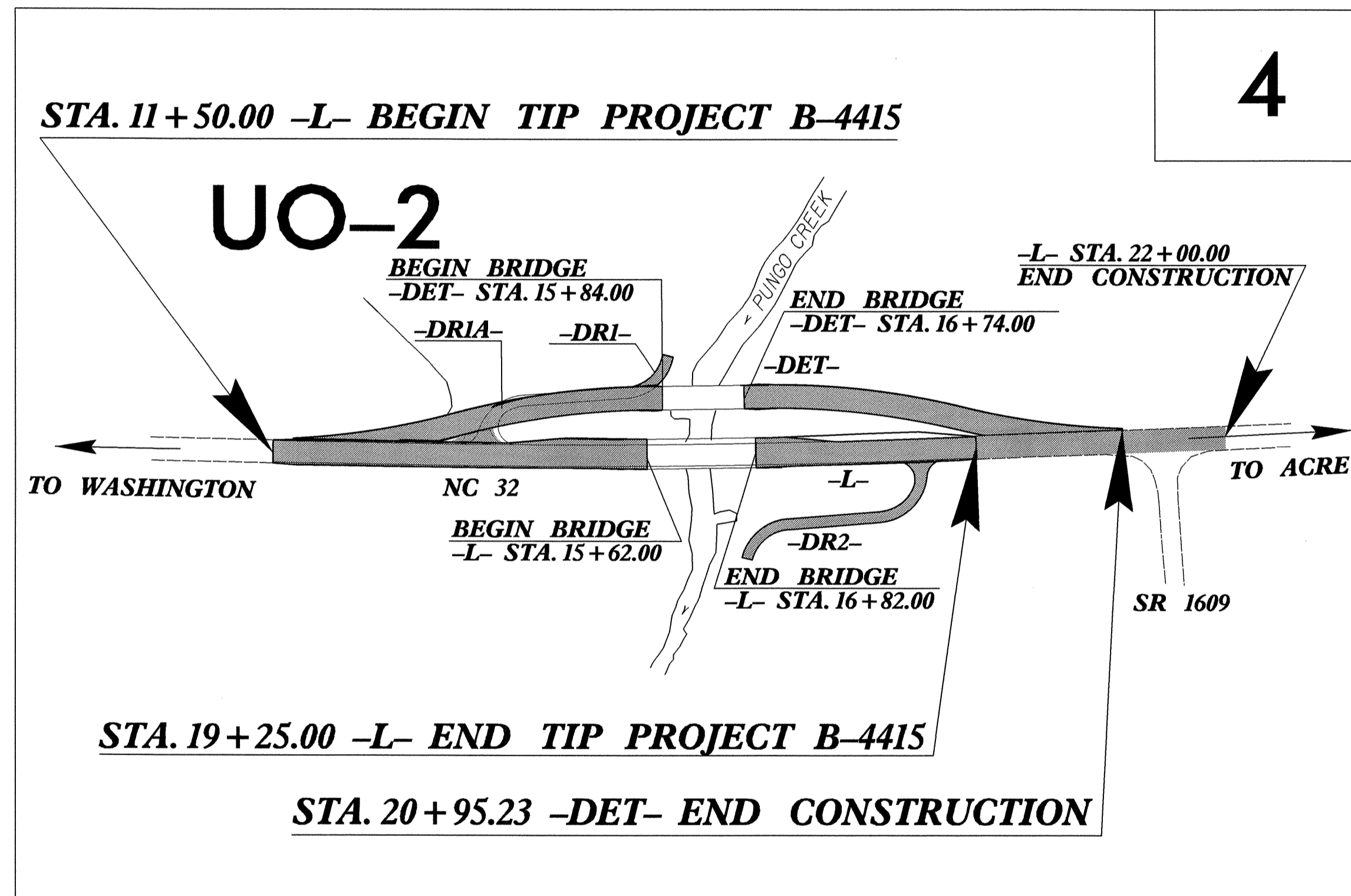
VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLANS
BEAUFORT COUNTY**

LOCATION: Bridge No.21 Over Pungo Creek on NC 32

TYPE OF WORK: Utilities Relocation



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT
(1) WASHINGTON ELECTRIC UTILITIES
(2) TRI-COUNTY TELECOM

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

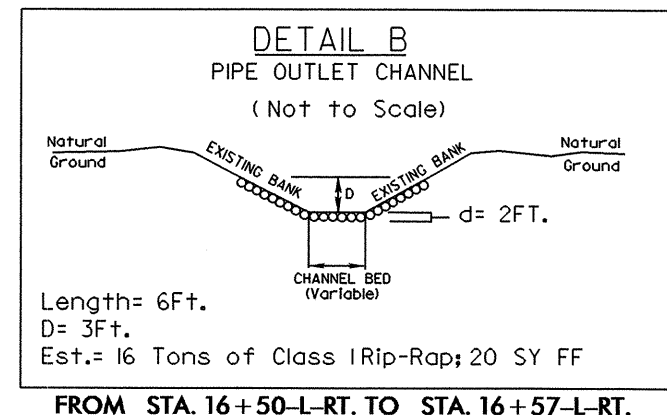
1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 250-4128
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Kijah Kamil UTILITIES PROJECT DESIGNER

21-JUL-2011 4:56
F:\Utilities\RDY\UT\Proj\B4415_UT_U01_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

UTILITIES BY OTHERS

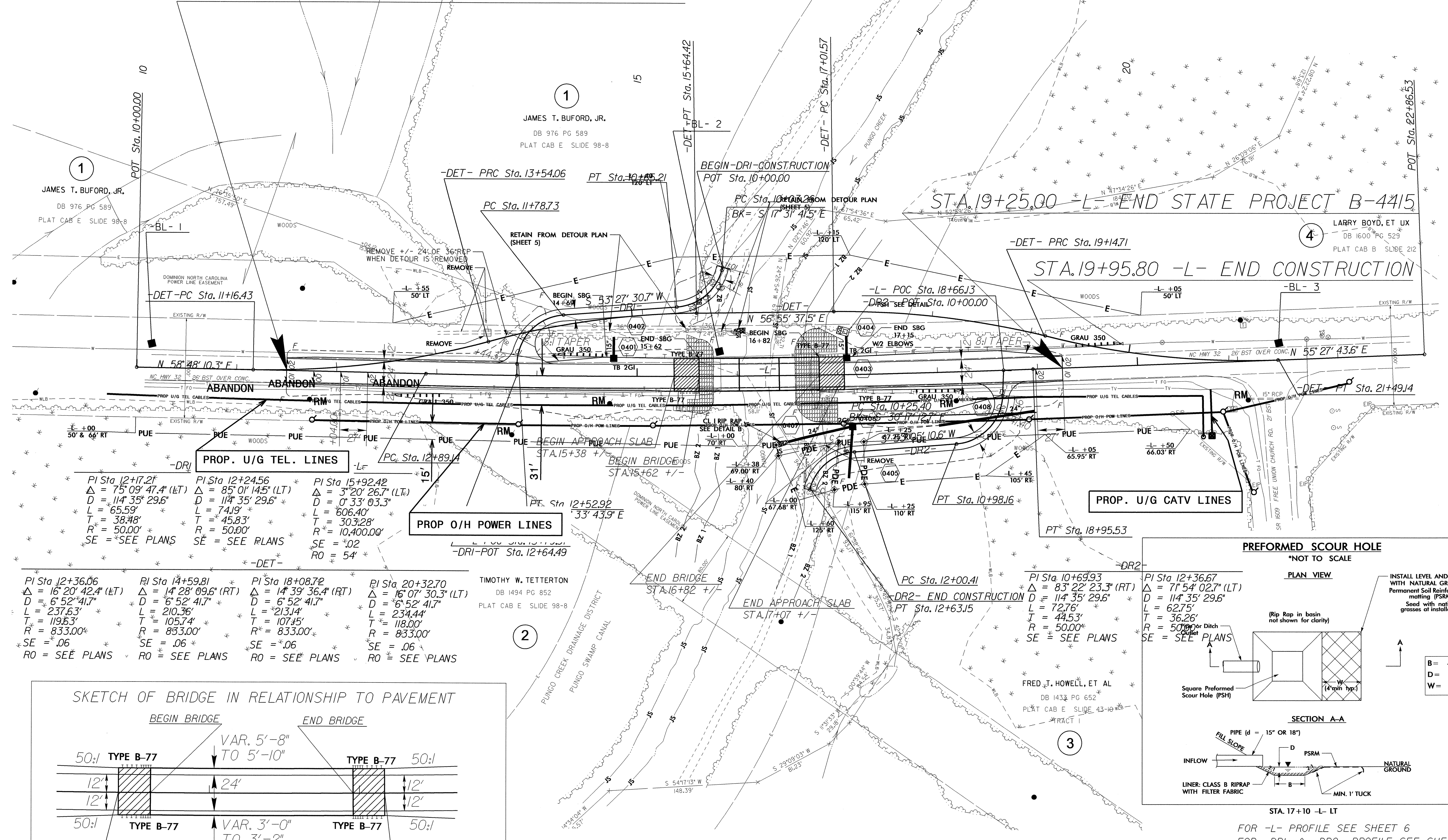
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



STA. 11+50.00 -L- BEGIN STATE PROJECT B-4415

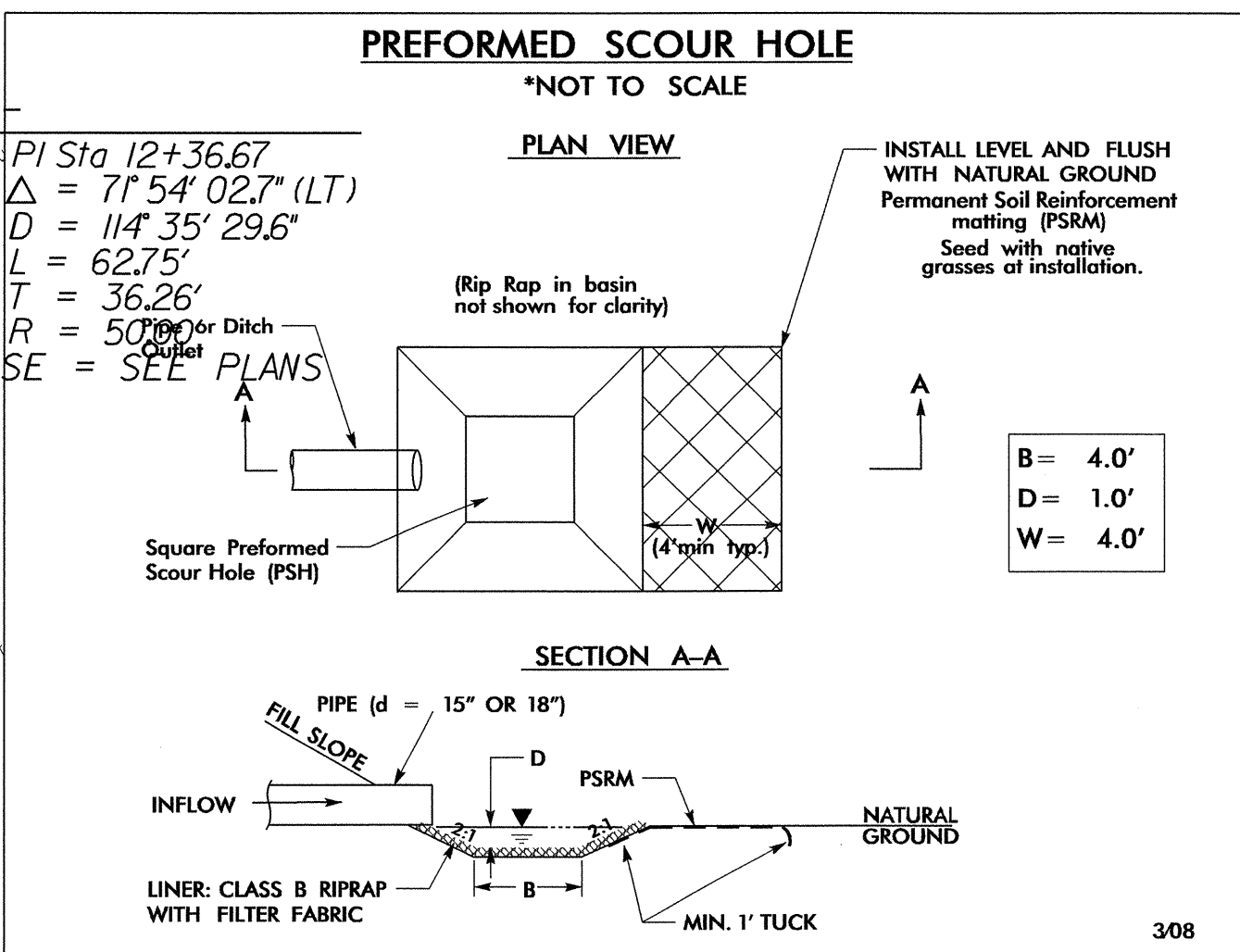
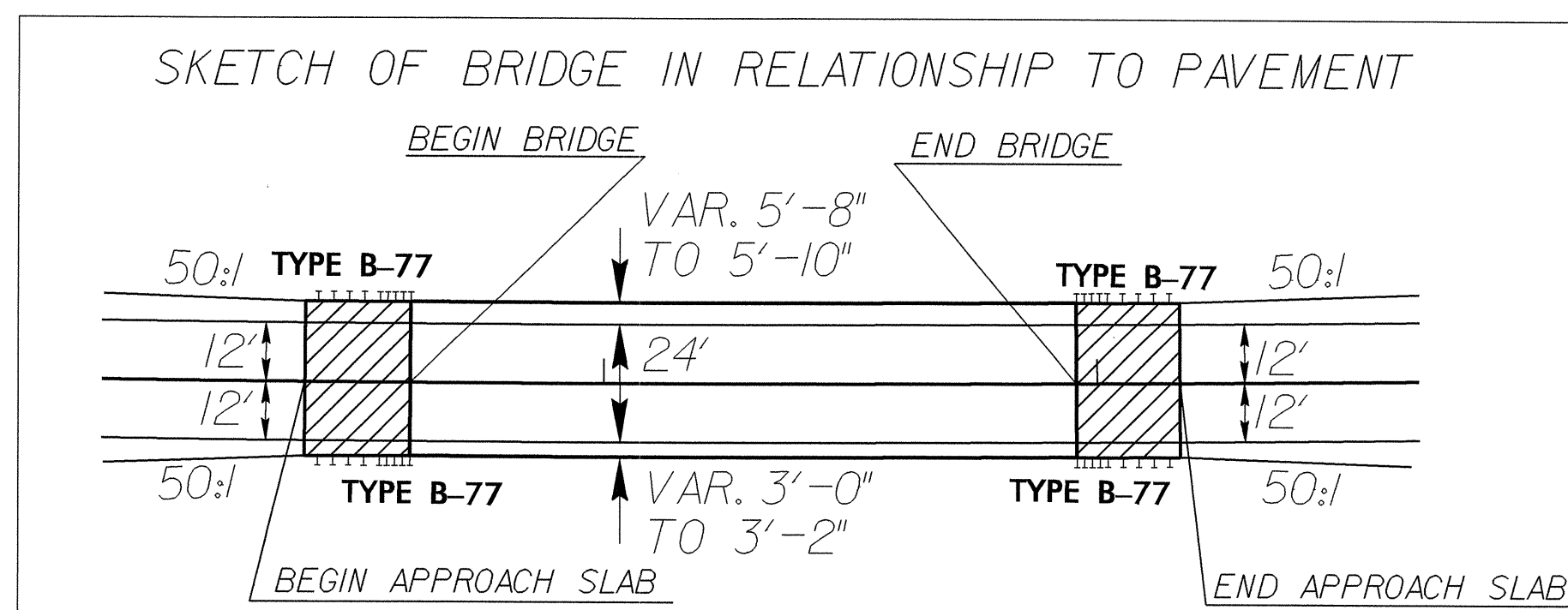
STA. 19+25.00 -L- END STATE PROJECT B-4415

STA. 19+95.80 -L- END CONSTRUCTION



PI Sta 12+17.21 Δ = 75° 09' 47.4" (LT) D = 114' 35" 29.6" L = 65.59' T = 38.48' R = 50.00° SE = SEE PLANS	PI Sta 12+24.56 Δ = 85° 01' 14.5" (LT) D = 114' 35" 29.6" L = 74.19' T = 45.83' R = 50.00° SE = SEE PLANS	PI Sta 15+92.42 Δ = 3° 20' 26.7" (LT) D = 0' 33" 03.3" L = 606.40' T = 303.28' R = 10,400.00° SE = .02 RO = 54'
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PI Sta 12+36.06 Δ = 16° 20' 42.4" (LT) D = 6' 52" 41.7" L = 237.63' T = 119.63' R = 833.00° SE = .06 RO = SEE PLANS	RI Sta 14+59.81 Δ = 14° 28' 09.6" (RT) D = 6' 52" 41.7" L = 210.36' T = 105.74' R = 853.00° SE = .06 RO = SEE PLANS	PI Sta 18+08.72 Δ = 14° 39' 36.4" (RT) D = 6' 52" 41.7" L = 213.14' T = 107.15' R = 833.00° SE = .06 RO = SEE PLANS	RI Sta 20+32.70 Δ = 16° 07' 30.3" (LT) D = 6' 52" 41.7" L = 234.44' T = 118.00' R = 833.00° SE = .06 RO = SEE PLANS
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STA. 17+10 -L- LT
FOR -L- PROFILE SEE SHEET 6
FOR -DR1- & -DR2- PROFILE SEE SHEET 7
FOR -DET- PLAN VIEW SEE SHEET 5
FOR STRUCTURES SEE SHEET S10 SX

SBG = SHOULDER BERM GUTTER
SBG -L- STA. 14+69 TO -L- STA. 15+62 LT.
SBG -L- STA. 16+82 TO -L- STA. 17+15 LT.

REVISIONS

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