

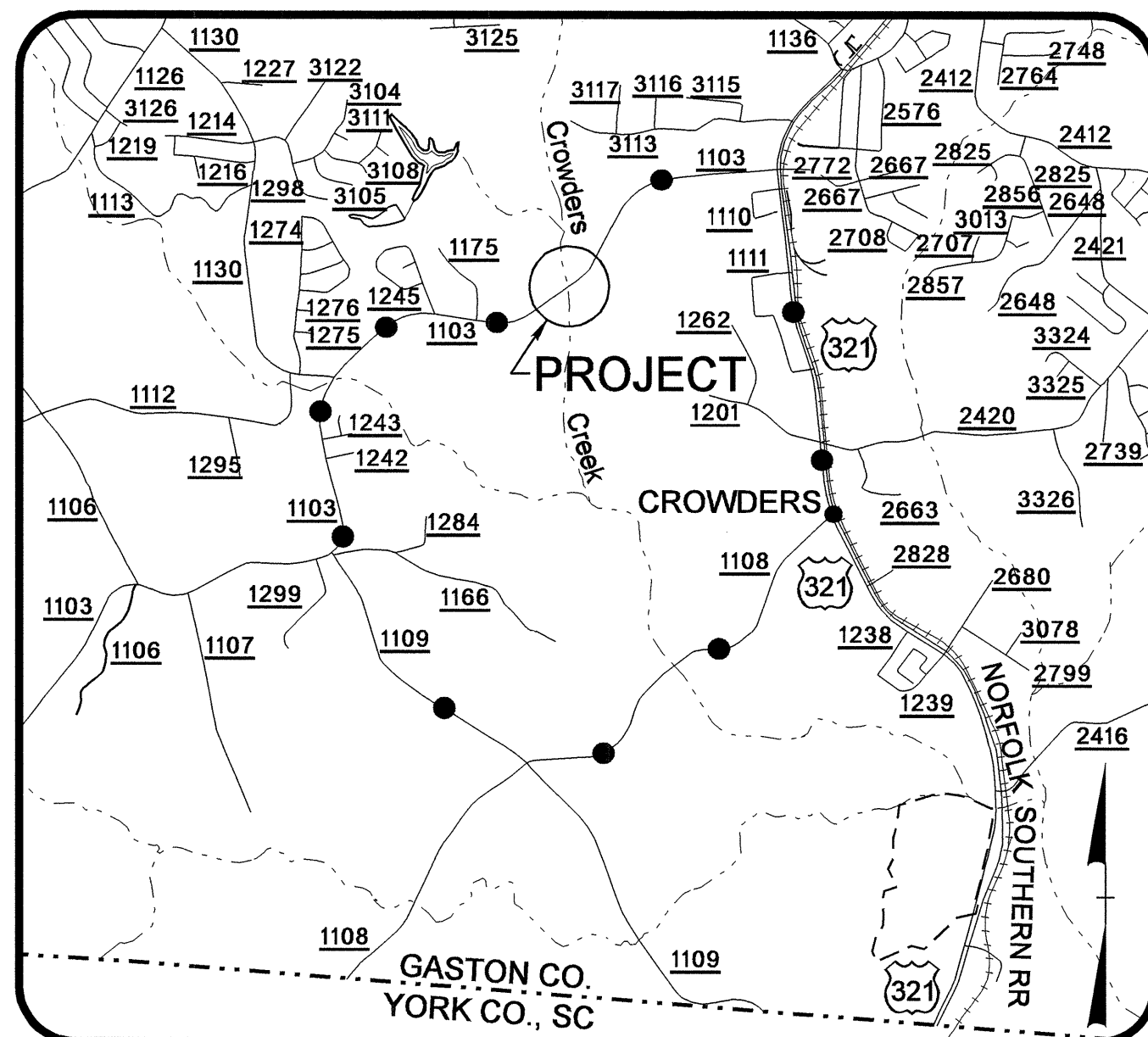
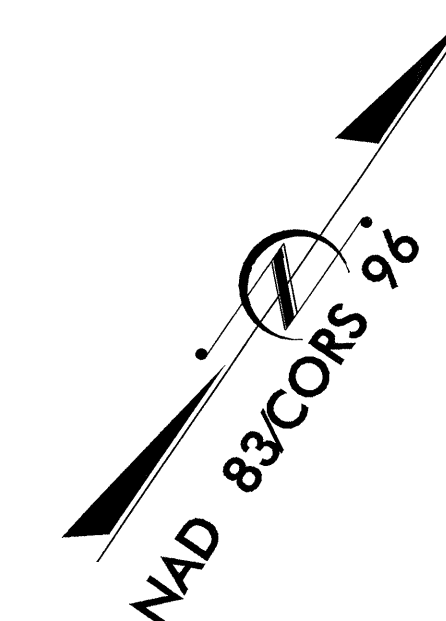
TIP PROJECT: B-4517

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
GASTON COUNTY**

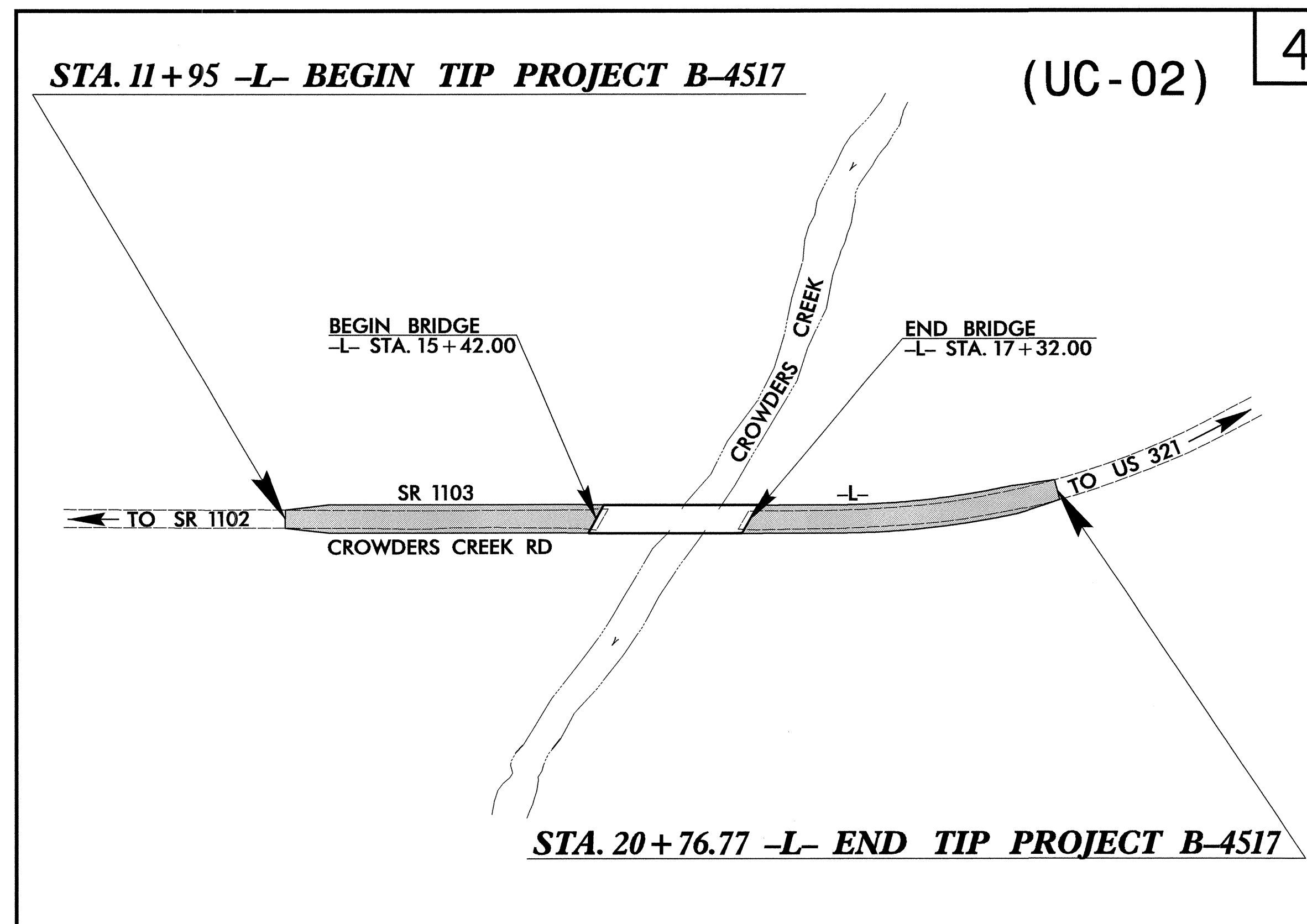
**LOCATION: BRIDGE NO. 49 OVER CROWDERS CREEK
ON SR 1103**

TYPE OF WORK: UTILITY CONSTRUCTION



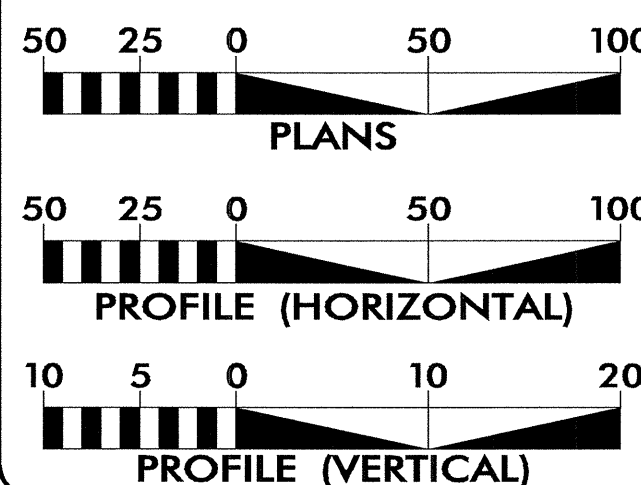
VICINITY MAP

• • • • • DETOUR ROUTE



2006 STANDARD SPECIFICATIONS

GRAPHIC SCALES



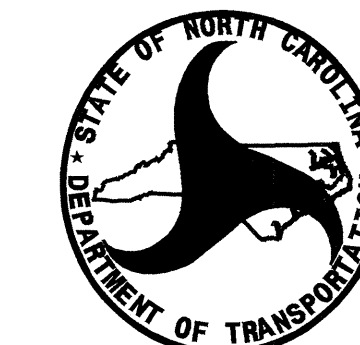
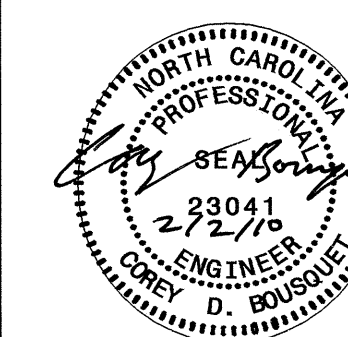
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-02	UTILITY CONSTRUCTION PLAN SHEETS

WATER AND SEWER OWNERS ON PROJECT

(1) CITY OF GASTONIA (SANITARY SEWER)

SEAL



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

1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

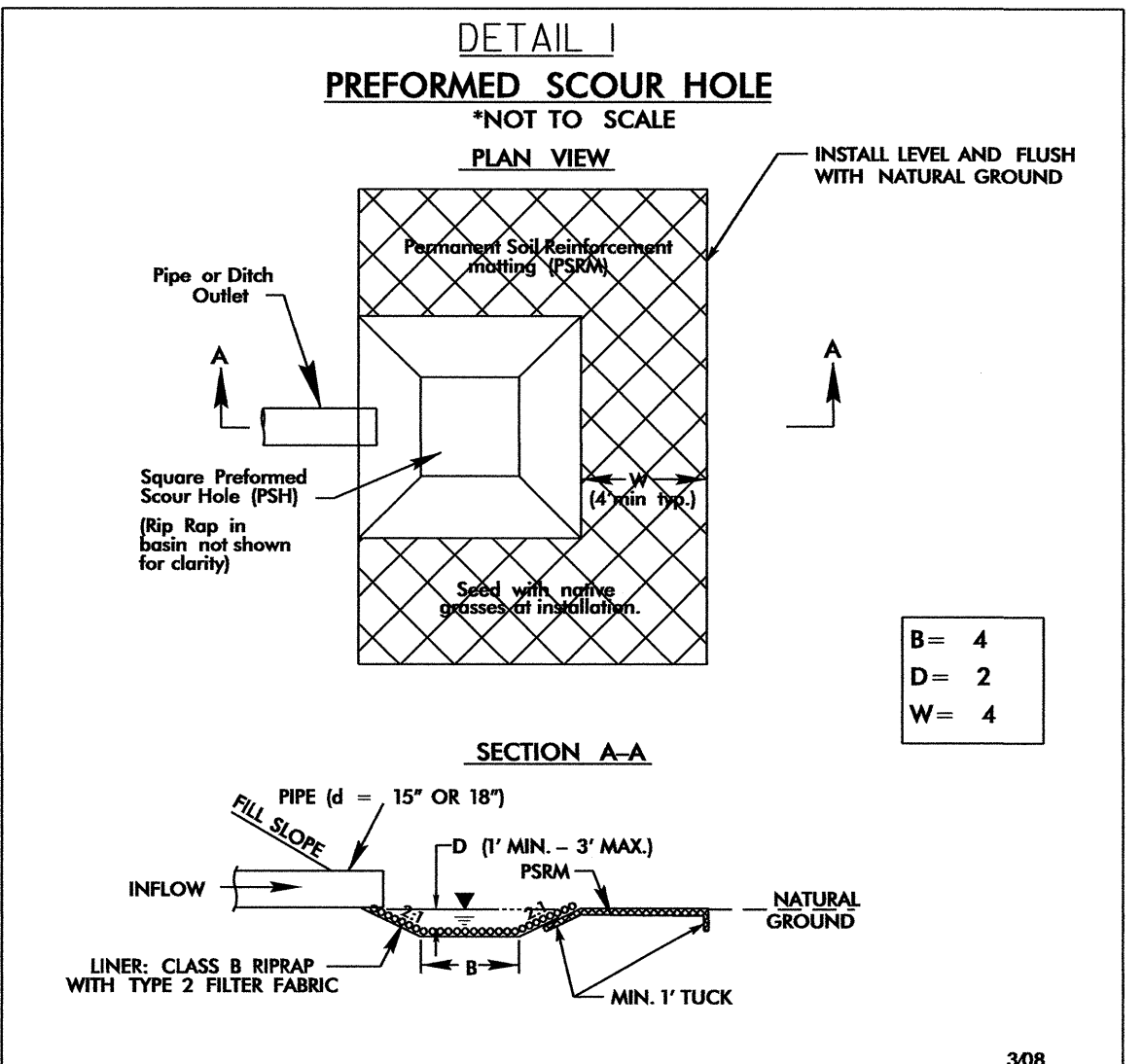
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Nabil Hamdan UTILITIES PROJECT DESIGNER

5/14/99

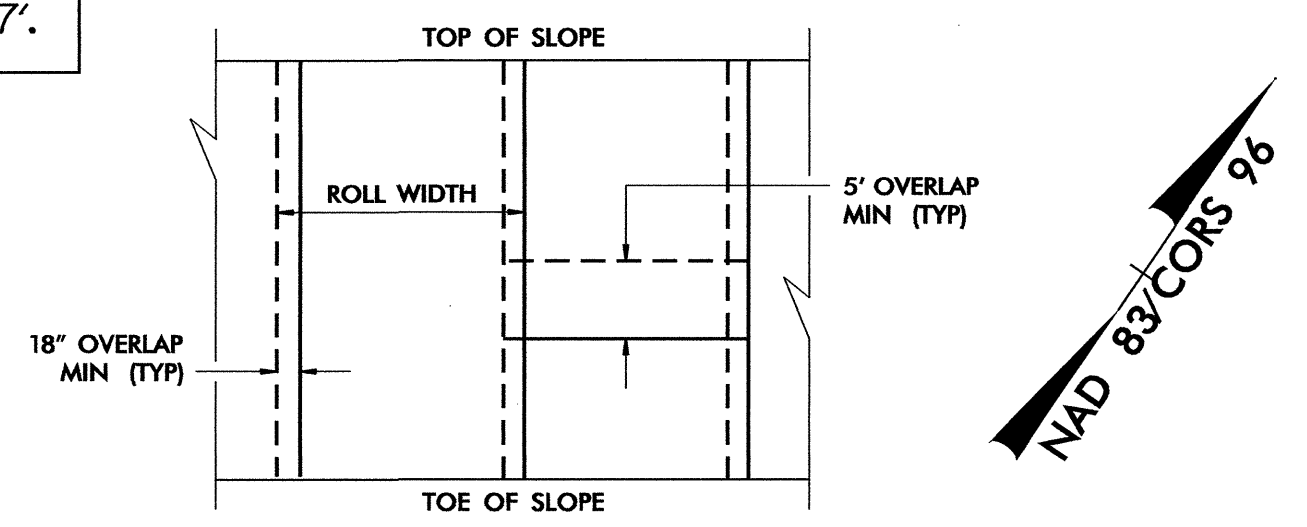
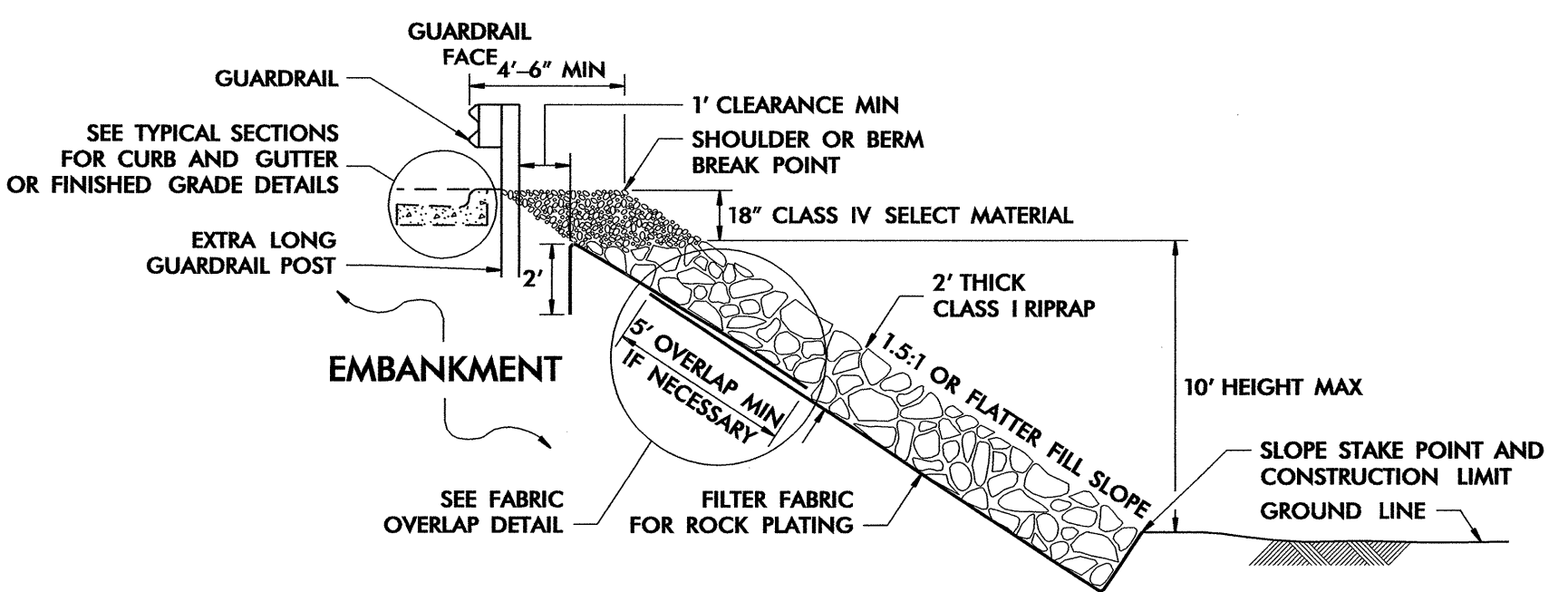
PROJECT REFERENCE NO.	SHEET NO.
B-4517	UC-2
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 250-4128 FAX: (919) 250-4119	

UTILITY CONSTRUCTION

- FOR -L- PROFILE SEE SHEET 5
- BRIDGE APPROACH SLAB
- UNCLASSIFIED STRUCTURE EXCAVATION (STRUCTURE PAY ITEM)



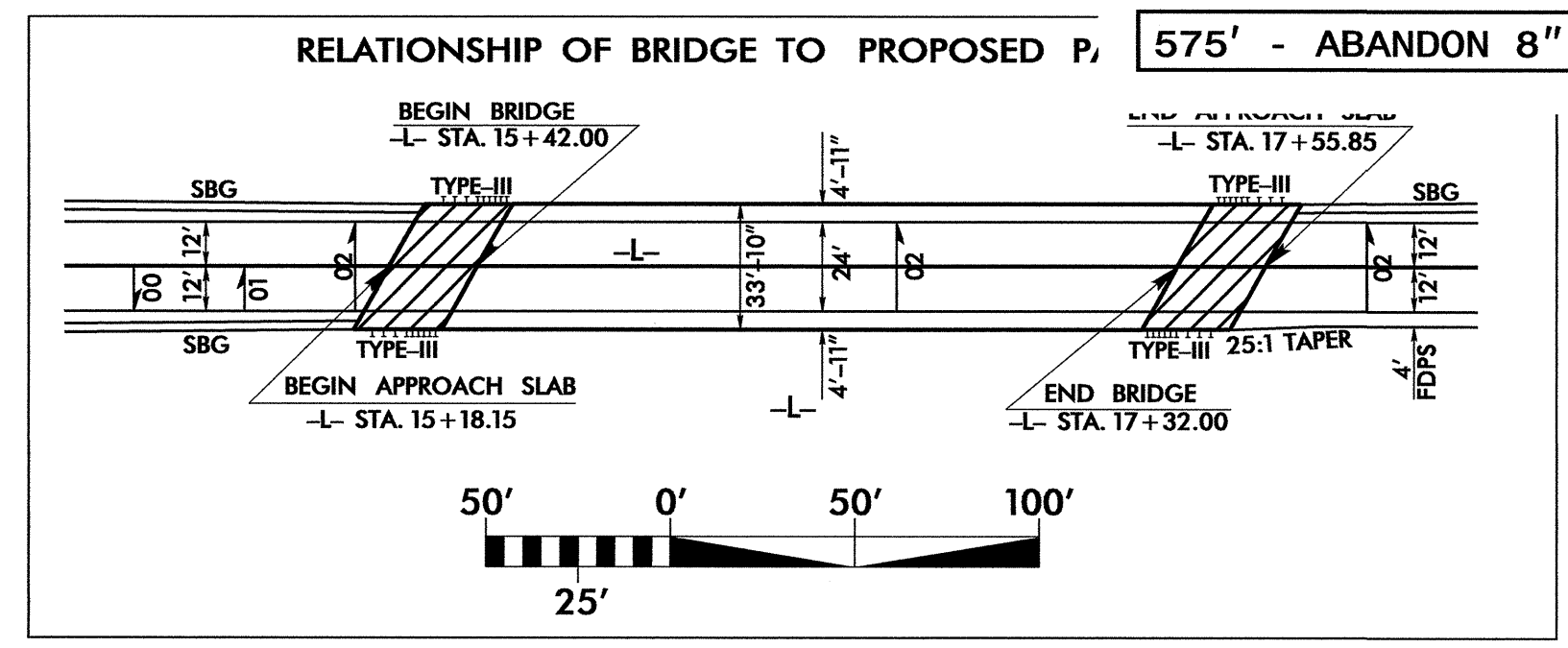
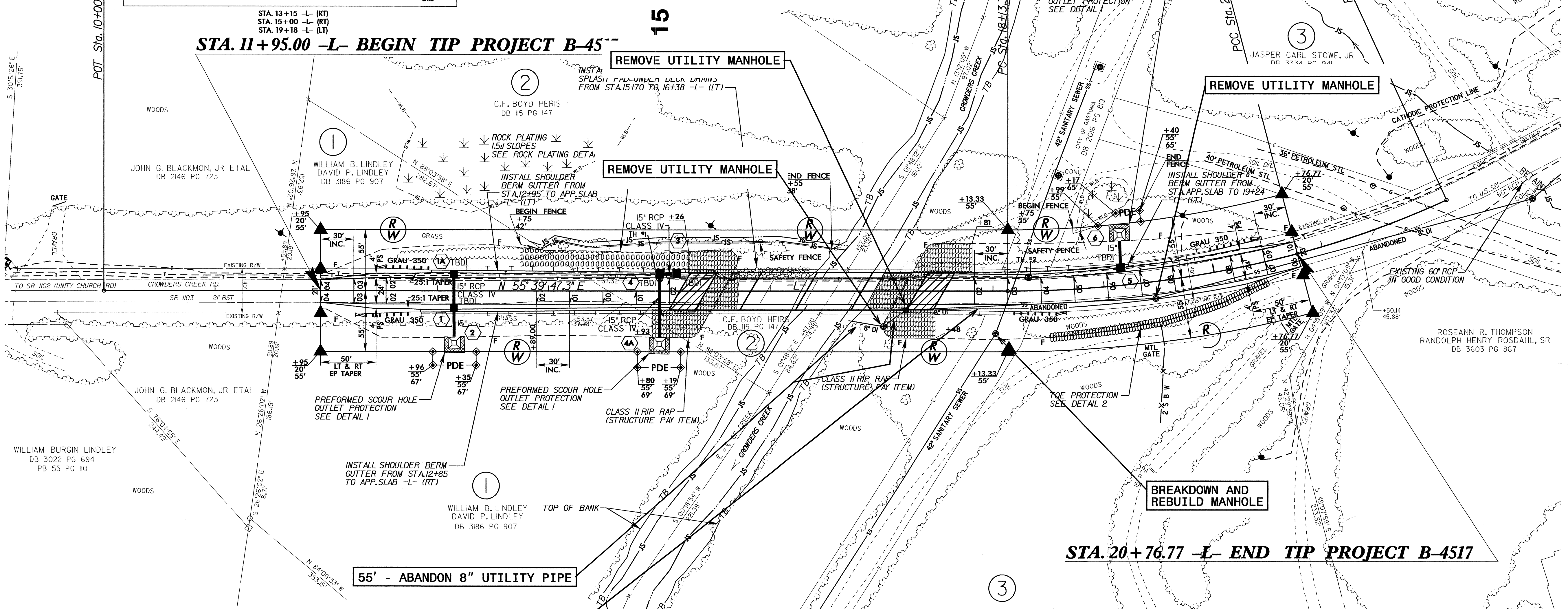
**** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL STOPPING SIGHT DISTANCE OF 487'.**



ROCK PLATING DETAIL NO. 1

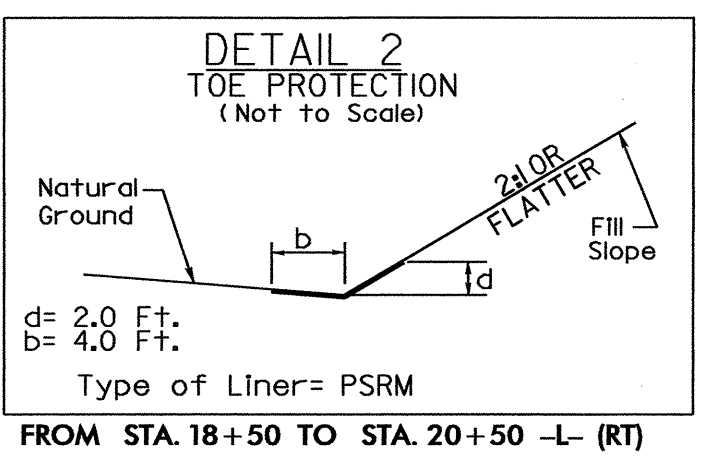
USE ROCK PLATING DETAIL NO. 1 AT THE FOLLOWING LOCATIONS:

- L- STA 13+75 +/- TO -L- STA 15+26 +/-
- EXTEND ROCK PLATING LIMITS TO 1.75:1 SLOPES.



-L-

PI Sta 19+45.78	PI Sta 21+48.27
$\Delta = 14' 43'' 32.9'' (LT)$	$\Delta = 9' 59'' 04.6'' (LT)$
$D = 5' 35'' 23.4''$	$D = 7' 00'' 00.0''$
$L = 263.44'$	$L = 142.64'$
$T = 132.45'$	$T = 71.50'$
$R = 1,025.00'$	$R = 818.51'$
SE = SEE PLANS	
**DS = 54 mph	



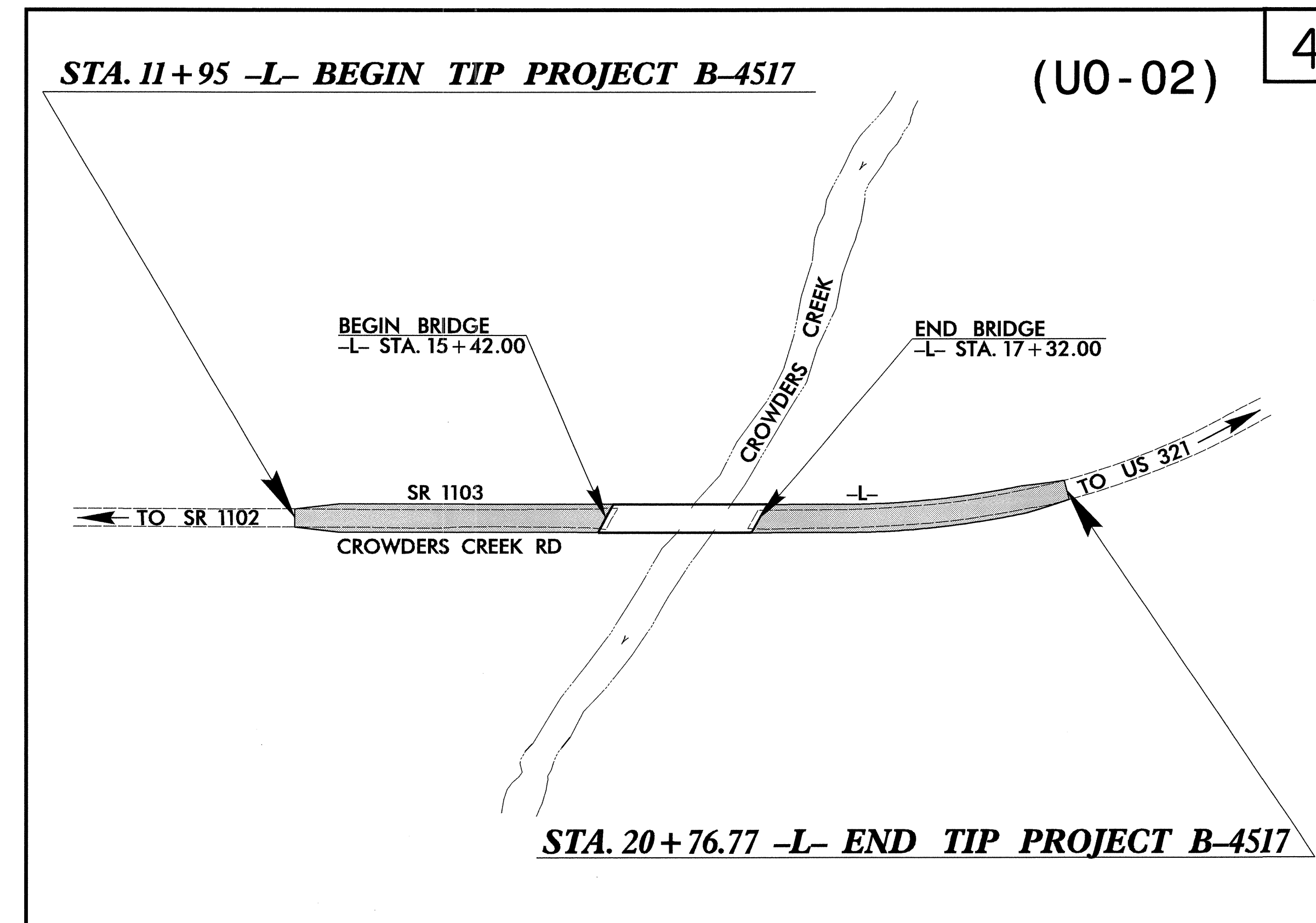
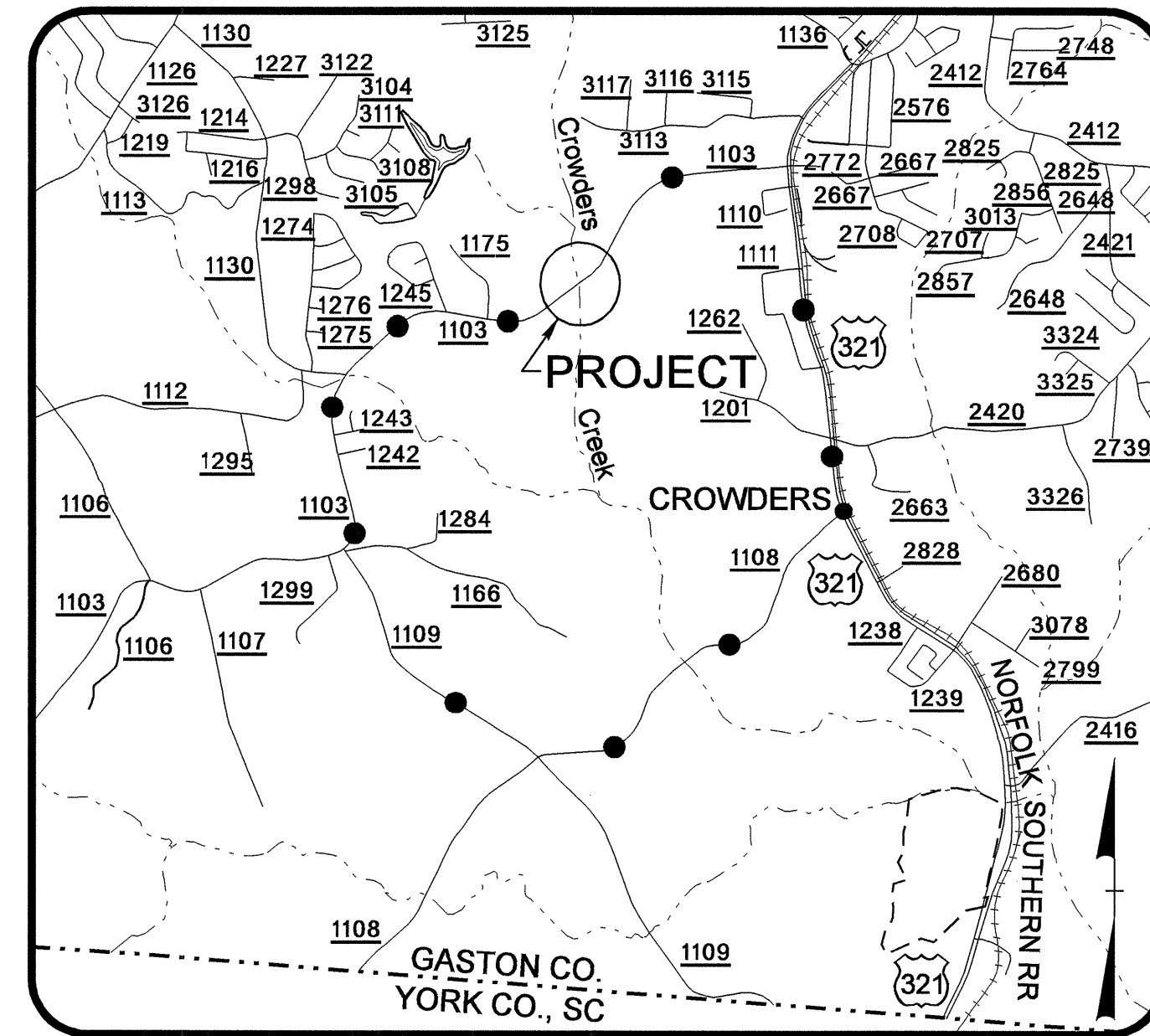
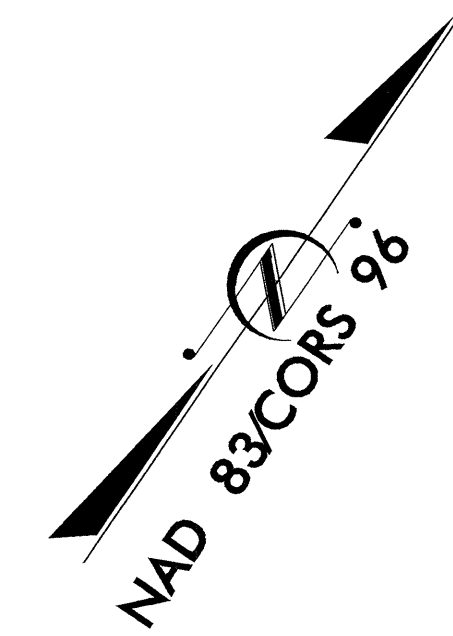
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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS GASTON COUNTY

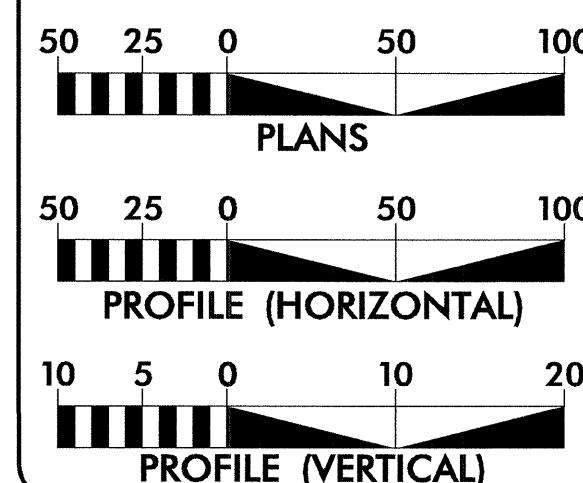
**LOCATION: BRIDGE NO. 49 OVER CROWDERS CREEK
ON SR 1103**

TYPE OF WORK: UTILITIES



TIP PROJECT: B-4517

GRAPHIC SCALES

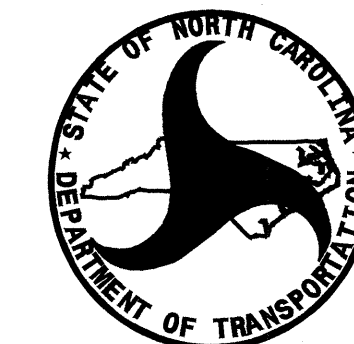


INDEX OF SHEETS

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

UTILITY OWNERS ON PROJECT

- (1) Duke Power (Electric Power)
- (2) AT&T of North Carolina (Telephone)



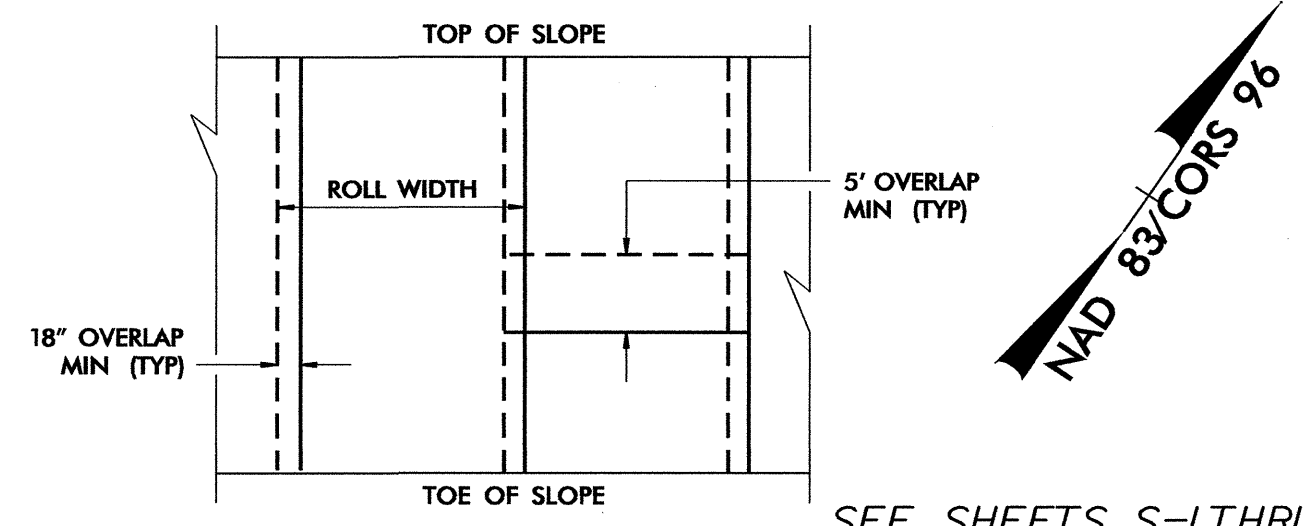
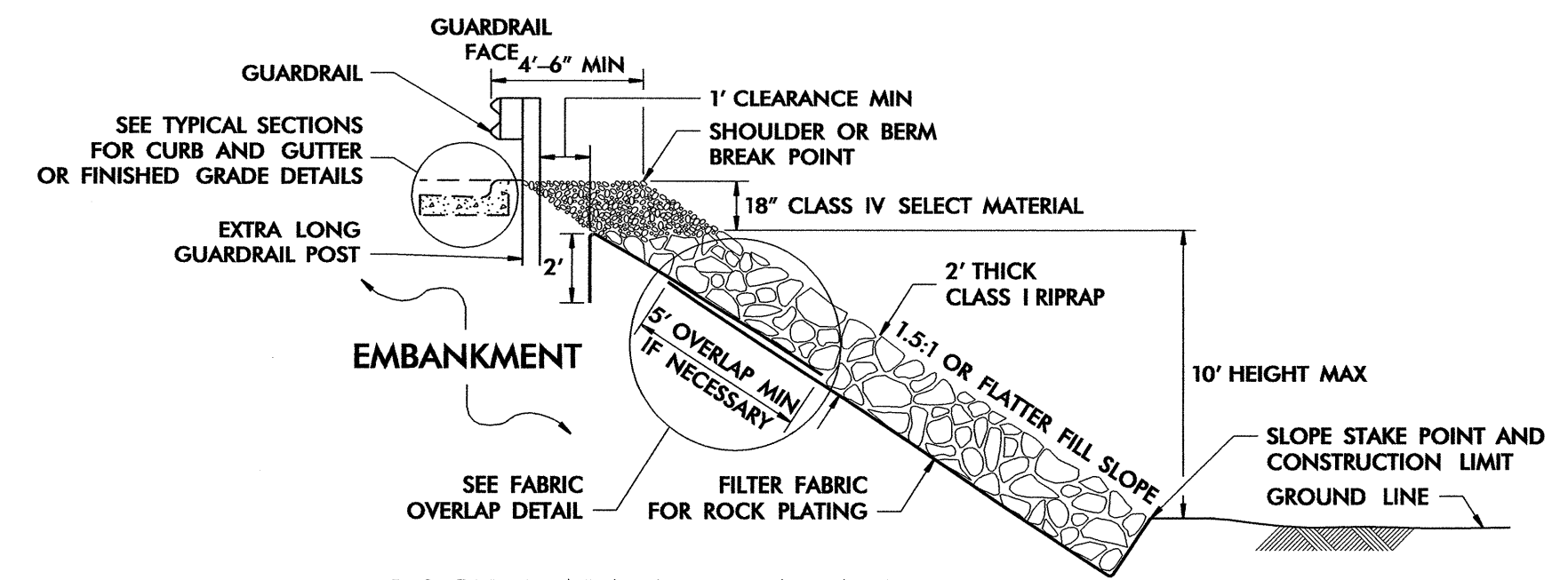
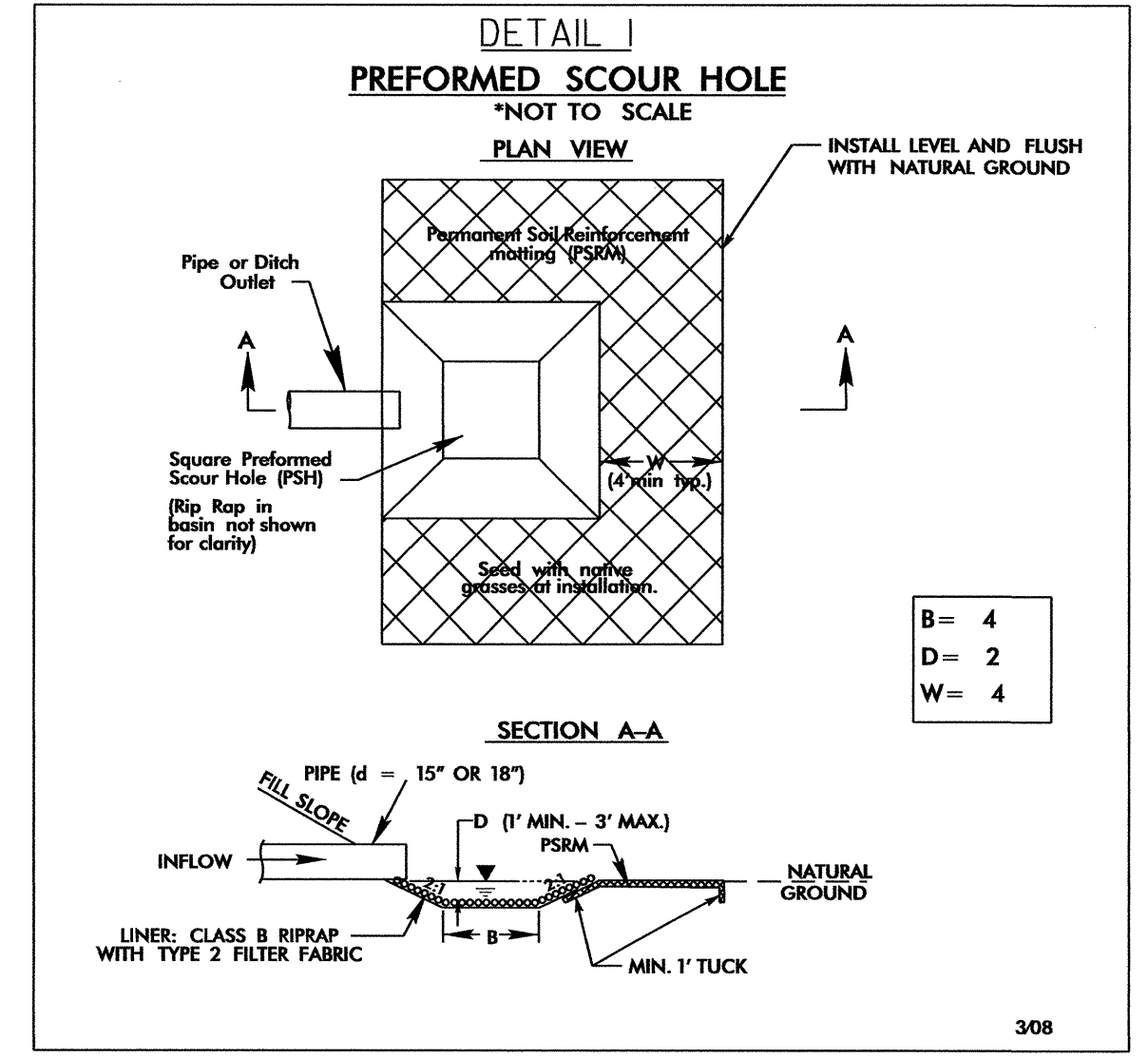
PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
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Roger Worthington, P.E. UTILITIES SECTION ENGINEER
 Coery Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
 Nabil Hamdan UTILITIES PROJECT DESIGNER

UTILITIES BY OTHERS

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



SEE SHEETS S-1 THRU S-31 FOR STRUCTURE PLANS

FOR -L- PROFILE SEE SHEET 5

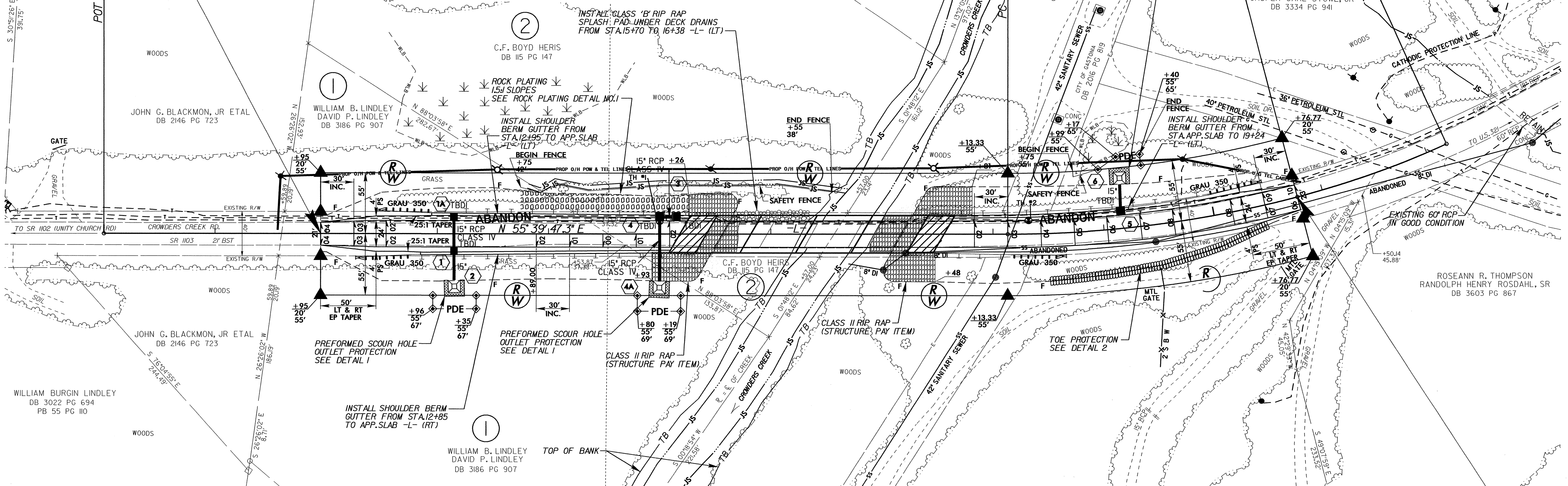
- BRIDGE APPROACH SLAB
- UNCLASSIFIED STRUCTURE EXCAVATION (STRUCTURE PAY ITEM)

ROCK PLATING DETAIL NO. 1

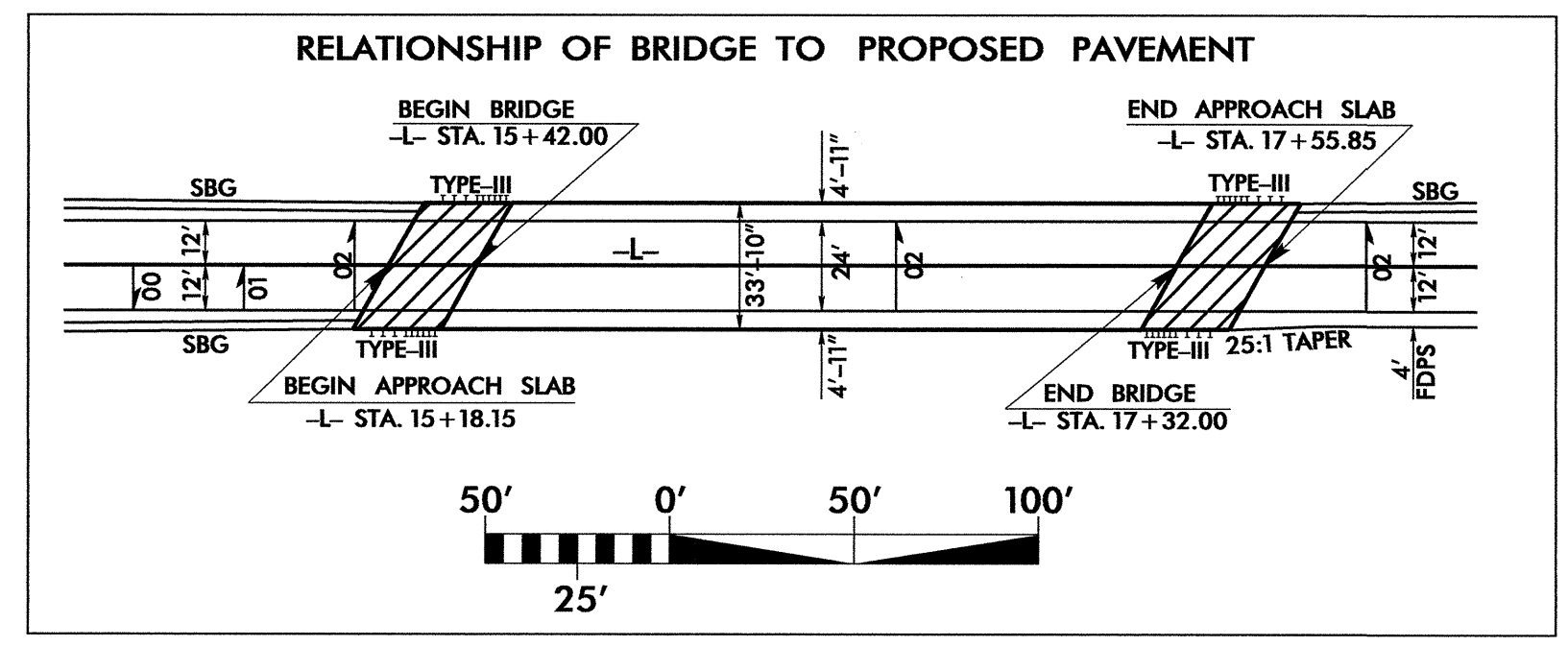
USE ROCK PLATING DETAIL NO. 1 AT THE FOLLOWING LOCATIONS:

-L- STA 13+75 +/- TO -L- STA 15+26 +/-
EXTEND ROCK PLATING LIMITS TO 1.75:1 SLOPES.

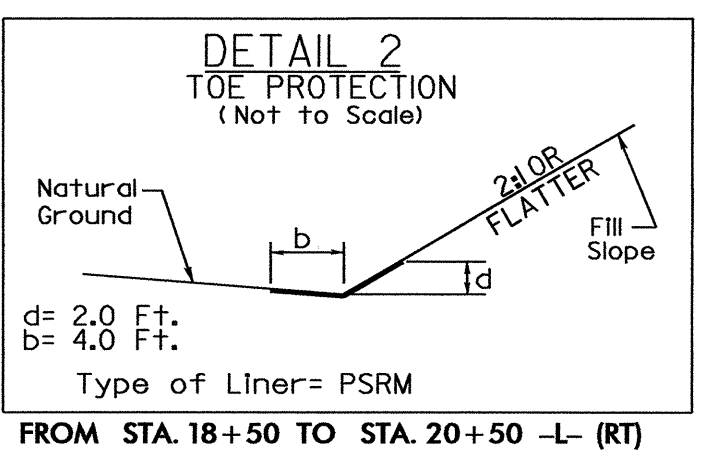
STA. 11 + 95.00 -L- BEGIN TIP PROJECT B-4517



STA. 20 + 76.77 -L- END TIP PROJECT B-4517



-L-	
PI Sta 19+45.78	PI Sta 21+48.27
$\Delta = 14' 43'' 32.9''$ (LT)	$\Delta = 9' 59'' 04.6''$ (LT)
$D = 5' 35'' 23.4''$	$D = 7' 00'' 00.0''$
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$T = 132.45'$	$T = 71.50'$
$R = 1,025.00'$	$R = 818.51'$
SE = SEE PLANS	



5/14/99

02-FEB-2000 15:21 r:\v\p11\3333\B4517_U0-2.dwg