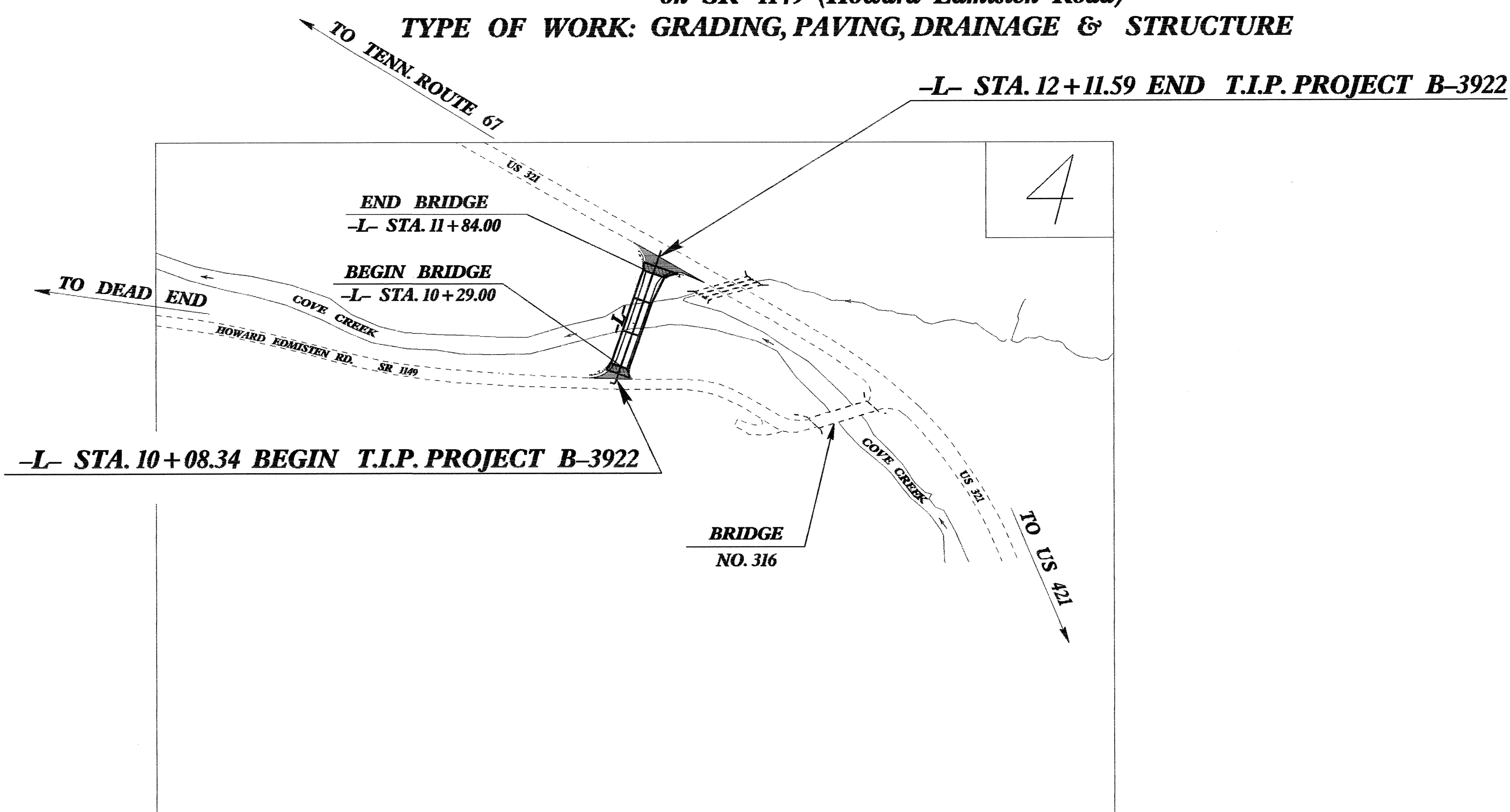
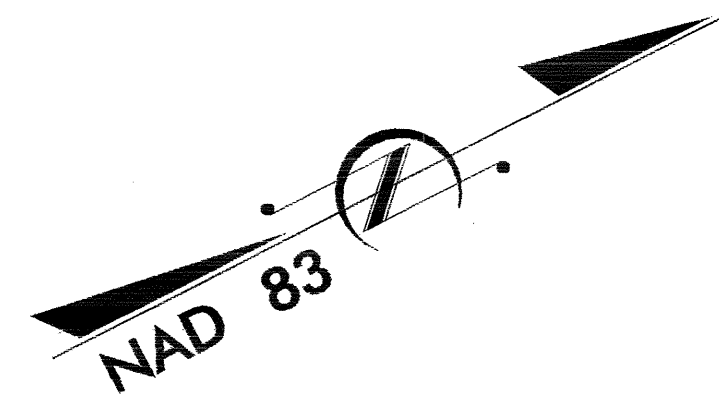


**TIP PROJECT: B-3922**

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL  
**WATAUGA COUNTY**

**LOCATION: Bridge No. 316 over Cove Creek  
 on SR 1149 (Howard Edmisten Road)**  
**TYPE OF WORK: GRADING, PAVING, DRAINAGE & STRUCTURE**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3922	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
	Reforestation	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1636.01	Rock Silt Screen	
1630.04	Stilling Basin	
Rock Inlet Sediment Trap:		
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

**THIS PROJECT CONTAINS  
 EROSION CONTROL PLANS  
 FOR CLEARING AND  
 GRUBBING PHASE OF  
 CONSTRUCTION.**

**THIS PROJECT HAS  
 BEEN DESIGNED TO  
 SENSITIVE WATERSHED  
 STANDARDS.**

**GRAPHIC SCALE**

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT  
 DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

P.E.  
 ROADSIDE ENVIRONMENTAL ENGINEER

Prepared in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
 1 South Wilmington St.  
 Raleigh, NC 27611

**2002 STANDARD SPECIFICATIONS**

**Roadway Standard Drawings**

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 20, 2002 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence  
 1622.01 Temporary Berms and Slope Drains  
 1632.03 Rock Inlet Sediment Trap Type C  
 1633.01 Temporary Rock Silt Check Type A

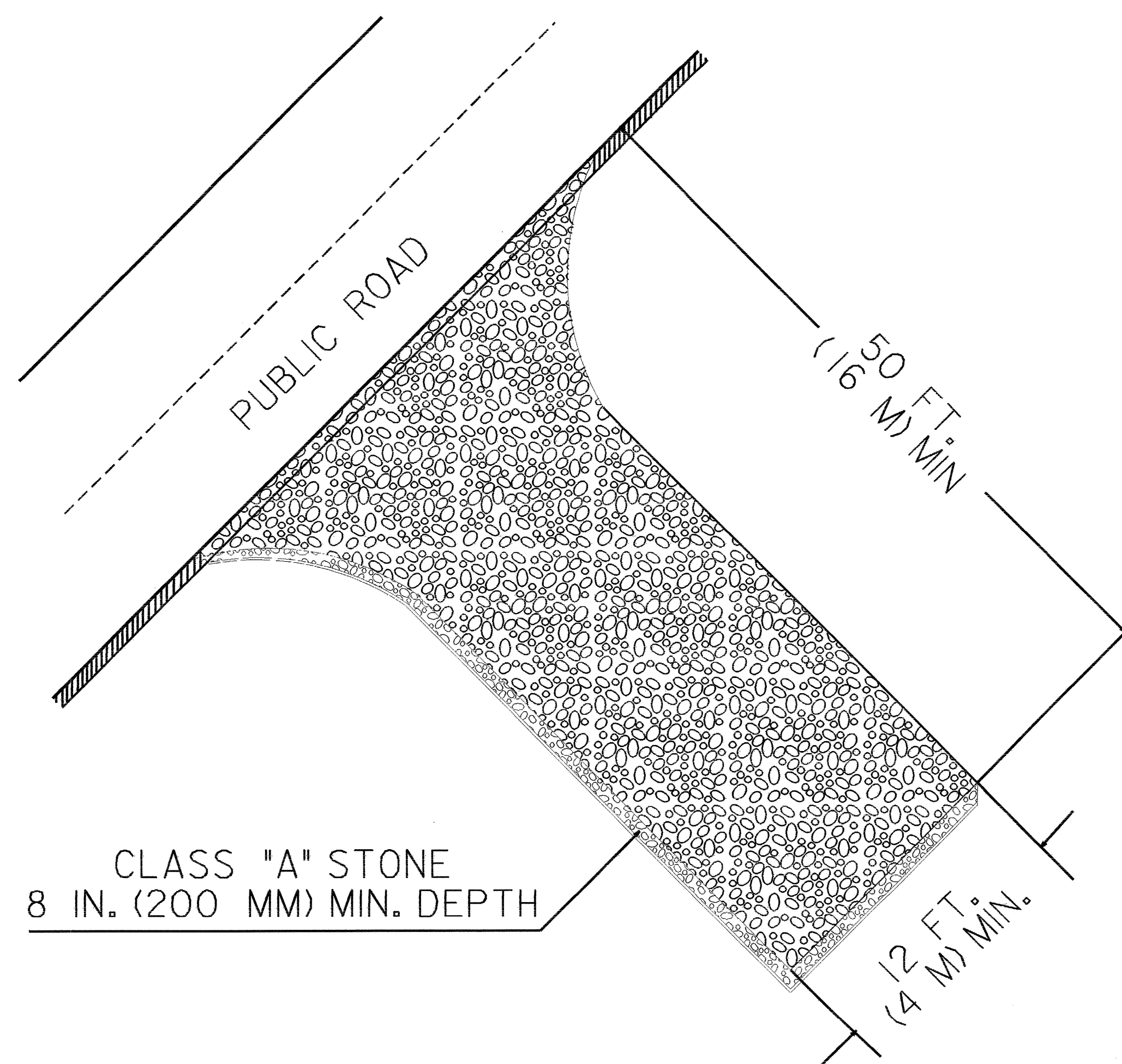
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PROJ. REFERENCE NO. <b>B-3922</b>	SHEET NO. <b>EC-2</b>	TOTAL SHEETS
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

## TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

### NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER



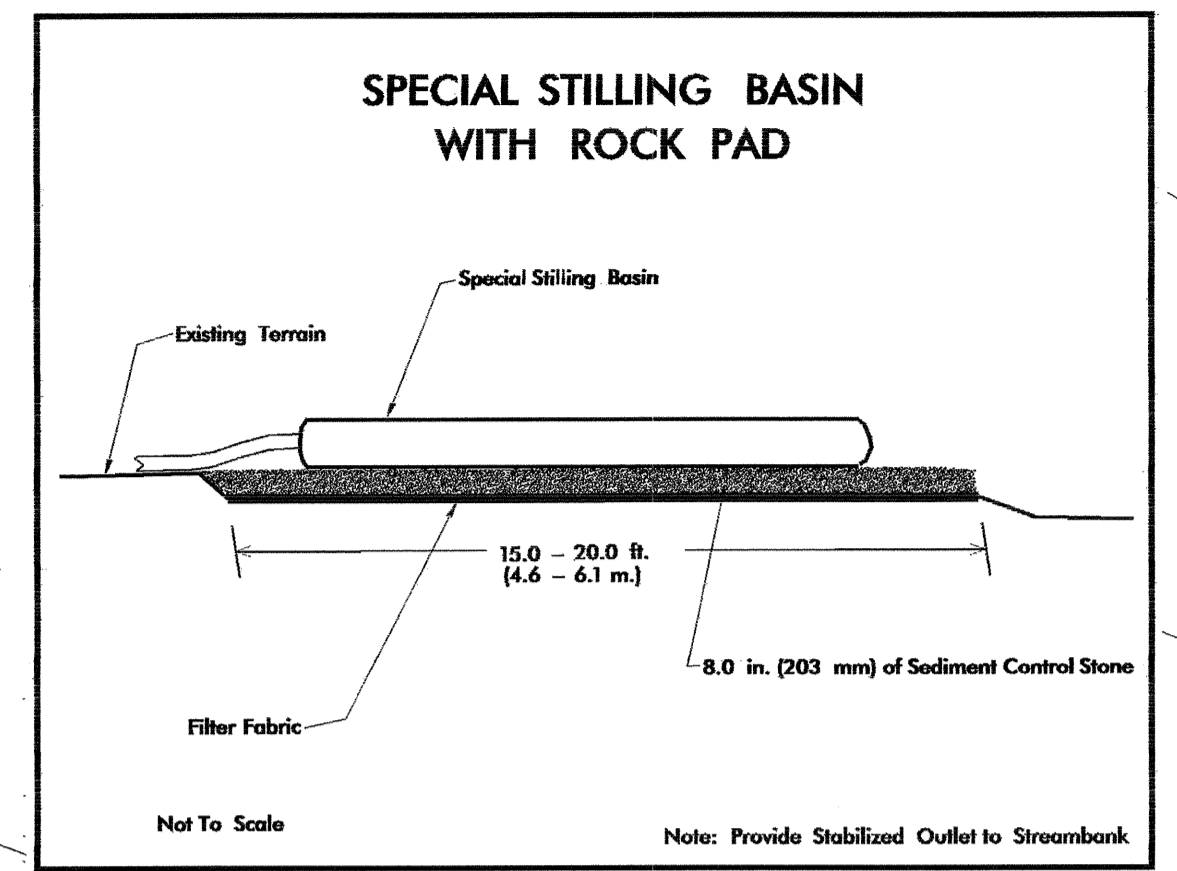
NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

3/30/04

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

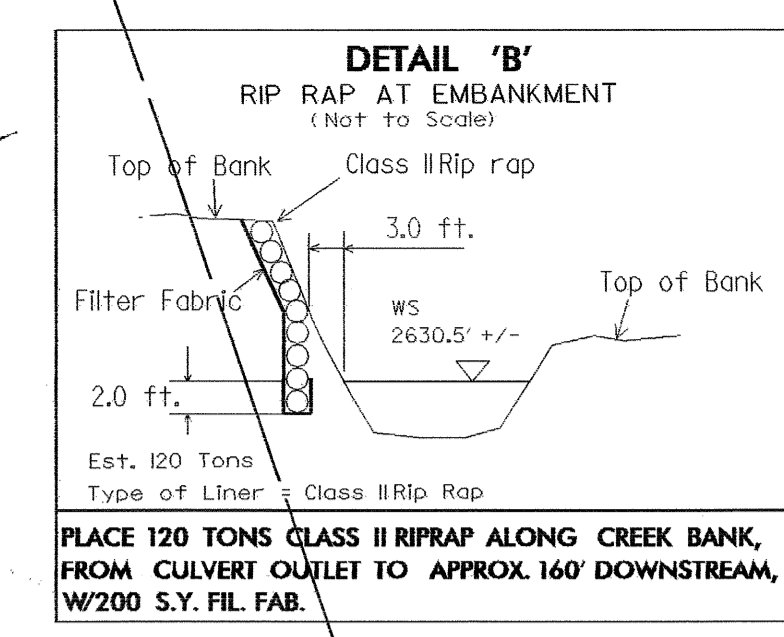
NOTE:  
UTILIZE SPECIAL STILLING BASIN  
AS STILLING BASIN WHERE APPLICABLE.

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B  
AND TEMPORARY ROCK SILT CHECKS TYPE-A AT  
DRAINAGE OUTLETS.

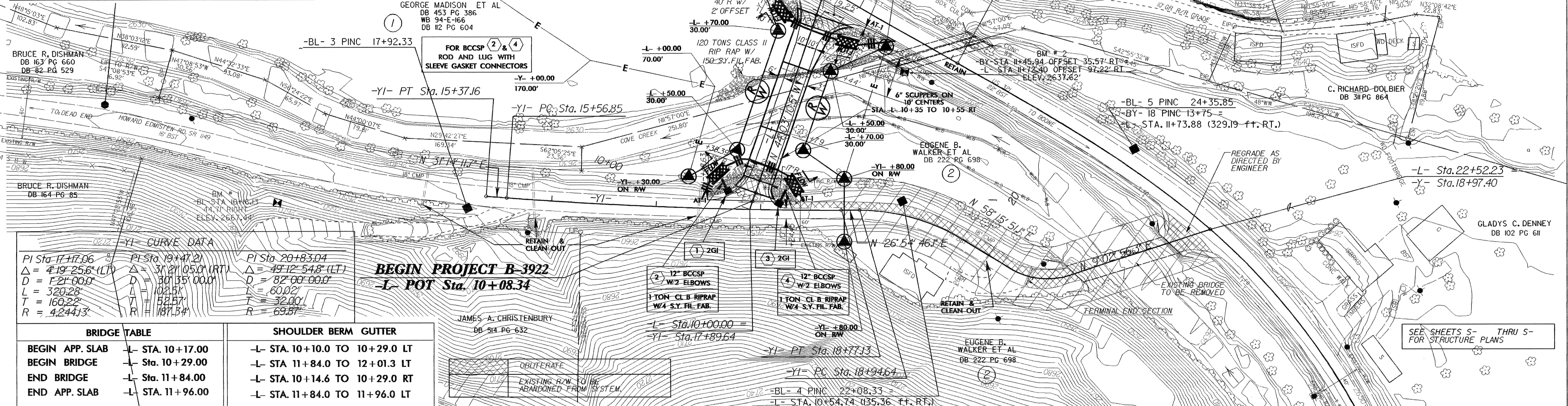


### ENVIRONMENTAL COMMITMENTS

The North Carolina Wildlife Resources Commission (WRC) has prohibited any instream work and land disturbance activities within 25 feet (7.6 meters) of Cove Creek associated with this project during brown trout spawning season of October 15 through April 15.



PROJECT REFERENCE NO.	SHEET NO.
B-3922	EC-3/CONST.4
ROW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



YI-CURVE DATA

PI Sta. 17+47.06	PI Sta. 19+47.21	PI Sta. 20+83.04
$\Delta = 419' 25.6" (LT)$	$\Delta = 312' 10.5" (RT)$	$\Delta = 49' 12' 54.8" (LT)$
$D = 721' 00.0"$	$D = 301' 55.1" 00.0"$	$D = 82' 00' 00.0"$
$L = 320' 28"$	$L = 102.51'$	$L = 60.02'$
$T = 160' 28"$	$T = 51.257'$	$T = 32.00'$
$R = 4,244.13'$	$R = 187.54'$	$R = 69.87'$

BRIDGE TABLE

BEGIN APP. SLAB	-L- STA. 10+17.00
BEGIN BRIDGE	-L- Sta. 10+29.00
END BRIDGE	-L- Sta. 11+84.00
END APP. SLAB	-L- STA. 11+96.00

SHOULDER BERM GUTTER

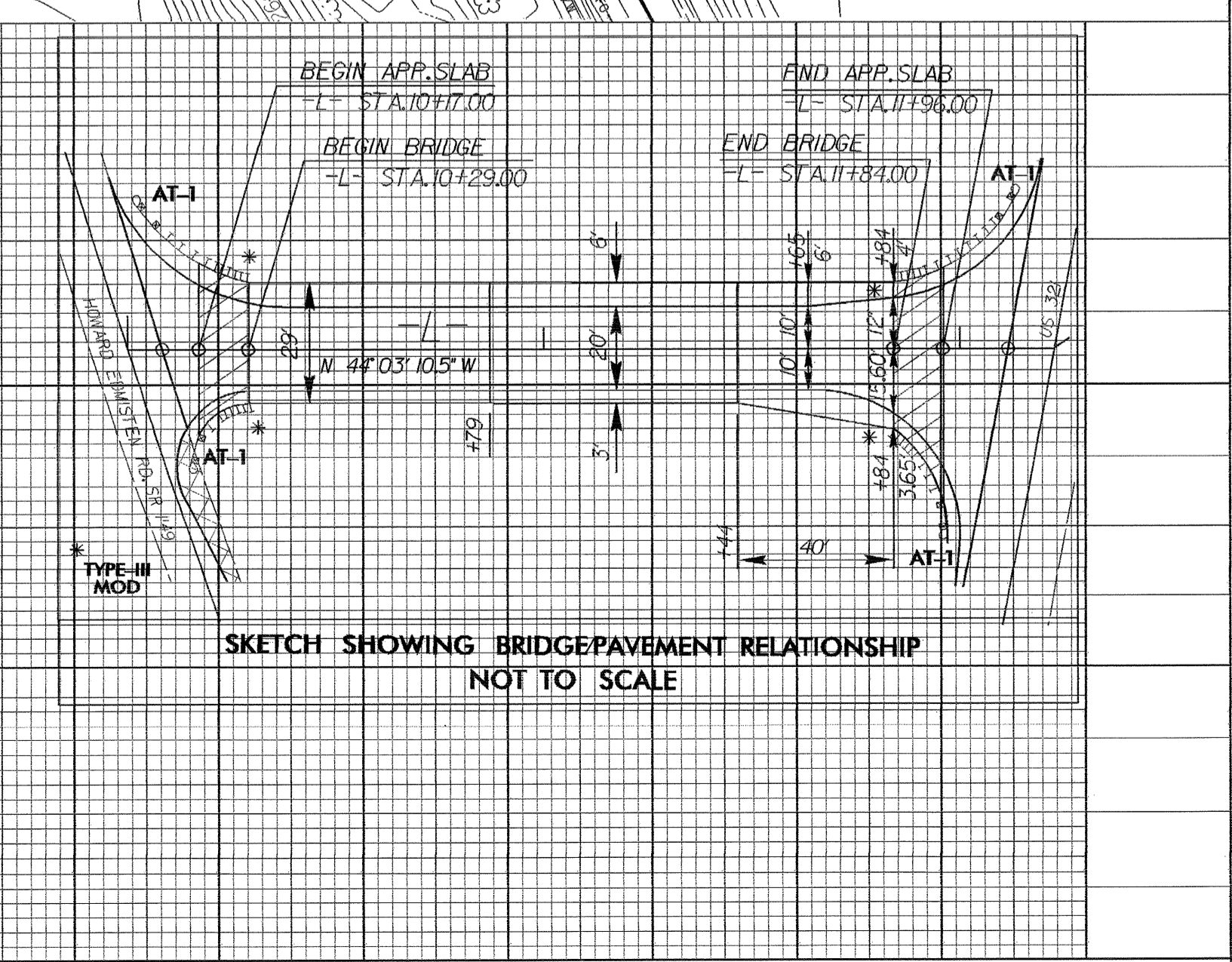
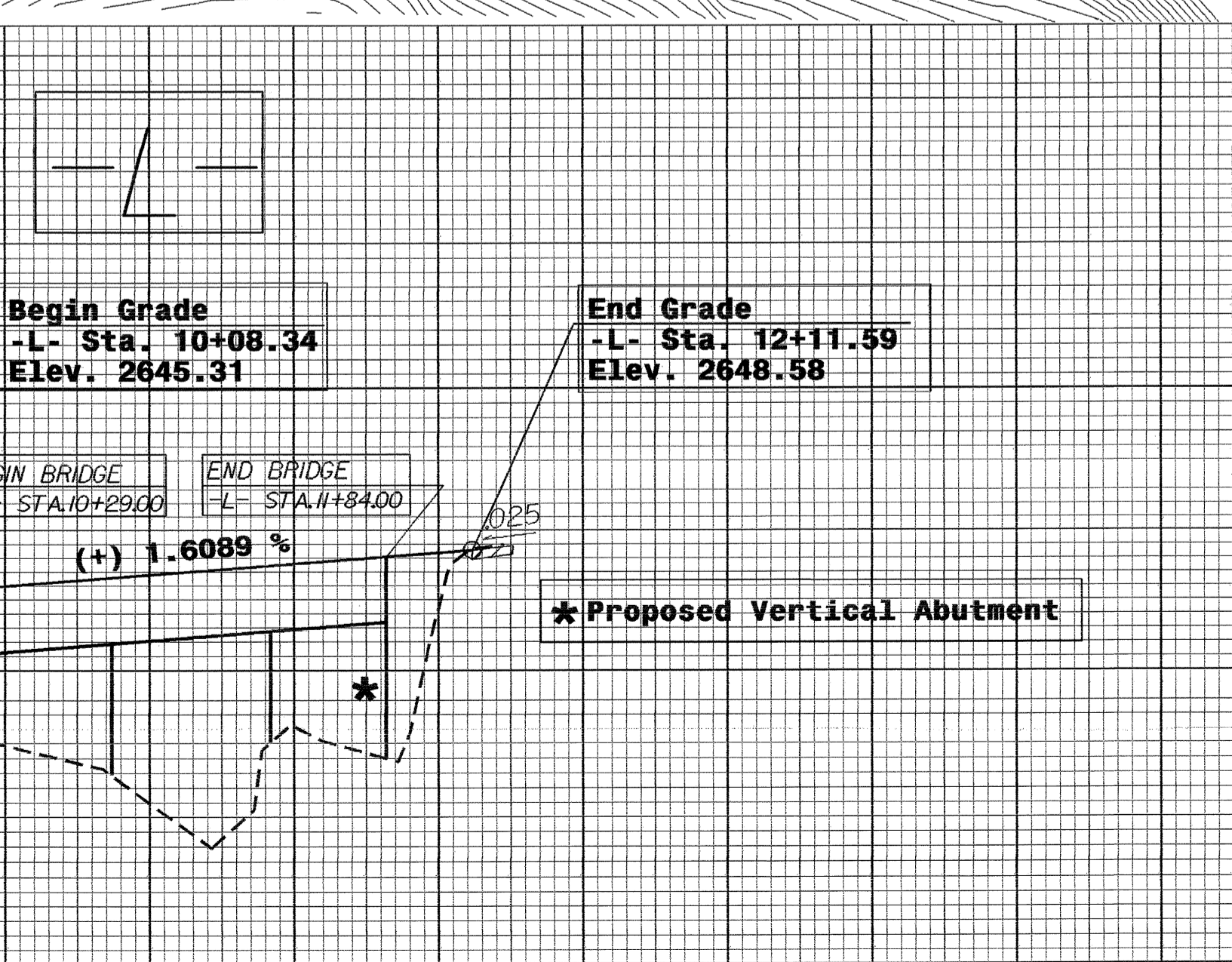
-L- STA. 10+10.0 TO 10+29.0 LT
-L- STA 11+84.0 TO 12+01.3 LT
-L- STA. 10+14.6 TO 10+29.0 RT
-L- STA. 11+84.0 TO 11+96.0 LT

BRIDGE DATA  
BRIDGE #316  
OVER COVE CREEK

DESIGN D.	4600 cfs
DESIGN FREQ.	25 yr
DESIGN EL.	2639.8 ft
BASE FLOOD Q.	6900 cfs
BASE FLOOD FREQ.	100 yr
BASE FLOOD EL.	2644.3 ft
OT Q.	15300 cfs
OT FREQ.	> 500 yr
OT EL.	2645.3 ft

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NAD83 FOR MONUMENT "B-3922-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 921106.5763(11) EASTING: 1189382.291(11) THE AVERAGE COMBINED FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99990241 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B-3922-1" TO "L-10+00.00" IS: S 14°38'04" E 197.82' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES. VERTICAL DATUM USED IS NAVD 83.

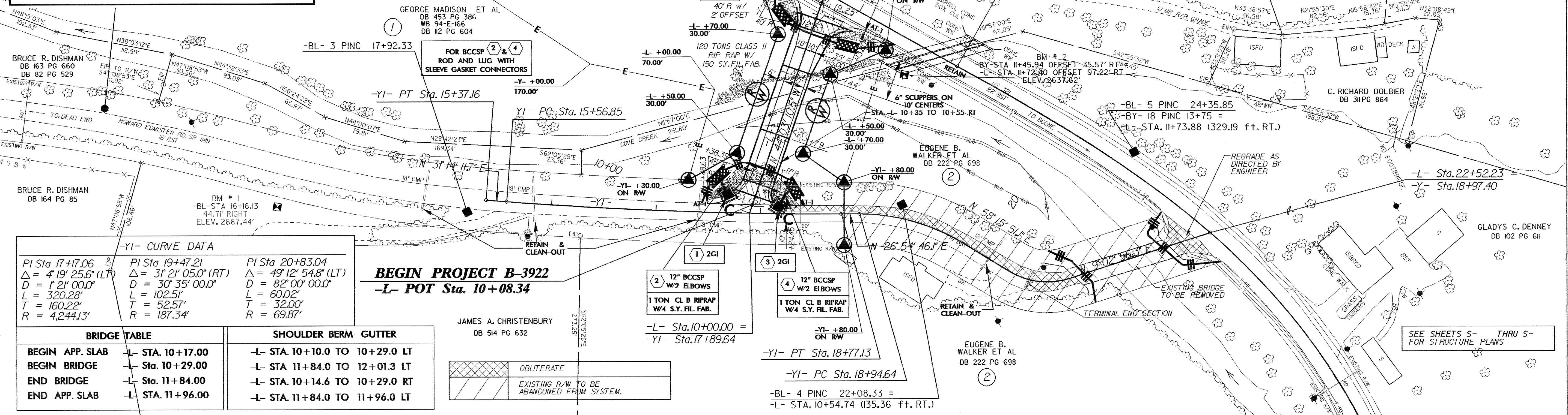
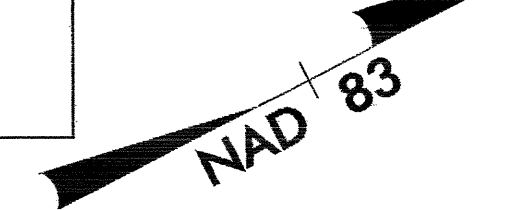
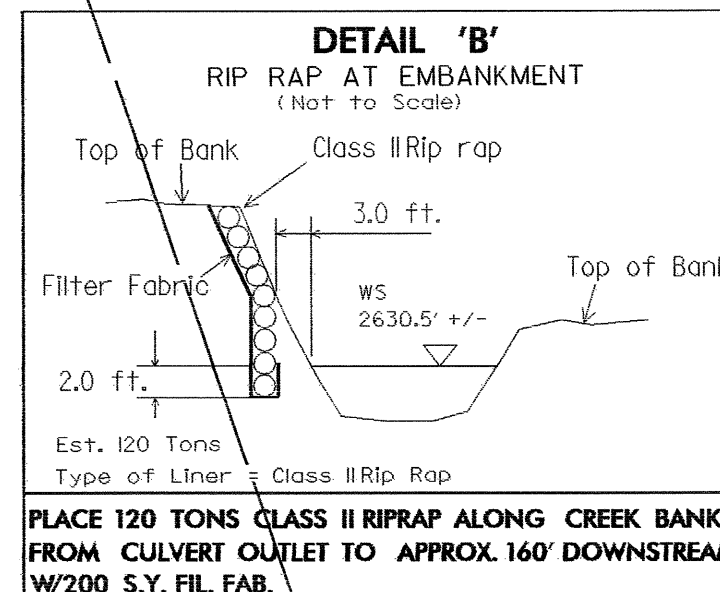
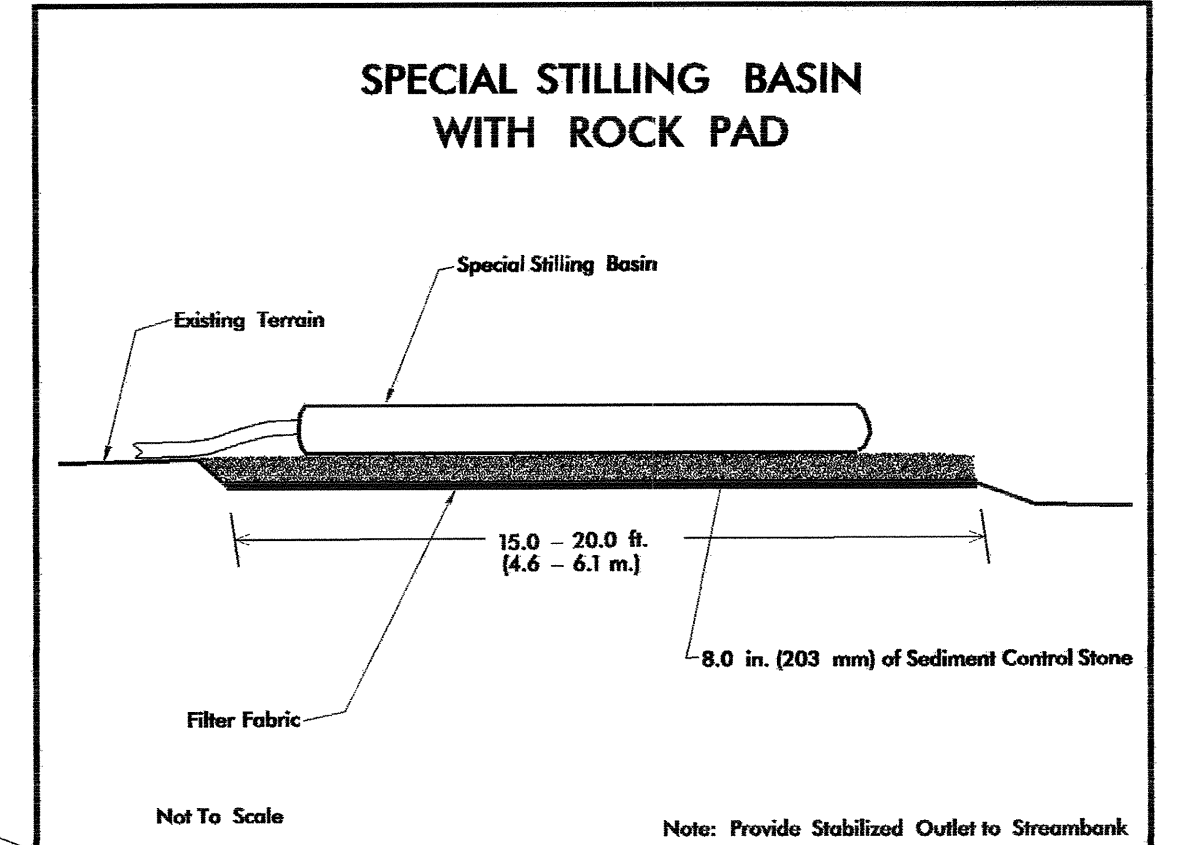


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 04/01/04

PROJECT REFERENCE NO.	SHEET NO.
B-3922	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

### ENVIRONMENTAL COMMITMENTS

The North Carolina Wildlife Resources Commission (WRC) has prohibited any instream work and land disturbance activities within 25 feet (7.6 meters) of Cove Creek associated with this project during brown trout spawning season of October 15 through April 15.



**-YI- CURVE DATA**

PI Sta 17+7.06 Δ = 4° 19' 25.6" (LT) D = 1° 21' 00.0" L = 320.28' T = 160.22' R = 4,244.13'	PI Sta 19+47.21 Δ = 3° 21' 05.0" (RT) D = 30° 35' 00.0" L = 102.51' T = 52.57' R = 187.34'	PI Sta 20+83.04 Δ = 49° 12' 54.8" (LT) D = 82° 00' 00.0" L = 60.02' T = 32.00' R = 69.87'
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BRIDGE TABLE	SHOULDER BERM GUTTER
BEGIN APP. SLAB -L- STA. 10+17.00	-L- STA. 10+10.0 TO 10+29.0 LT
BEGIN BRIDGE -L- STA. 10+29.00	-L- STA. 11+84.0 TO 12+01.3 LT
END BRIDGE -L- STA. 11+84.00	-L- STA. 10+14.6 TO 10+29.0 RT
END APP. SLAB -L- STA. 11+96.00	-L- STA. 11+84.0 TO 11+96.0 LT

**BEGIN PROJECT B-3922**  
-L- POT Sta. 10+08.34

**END PROJECT B-3922**  
-L- POT Sta. 12+11.59

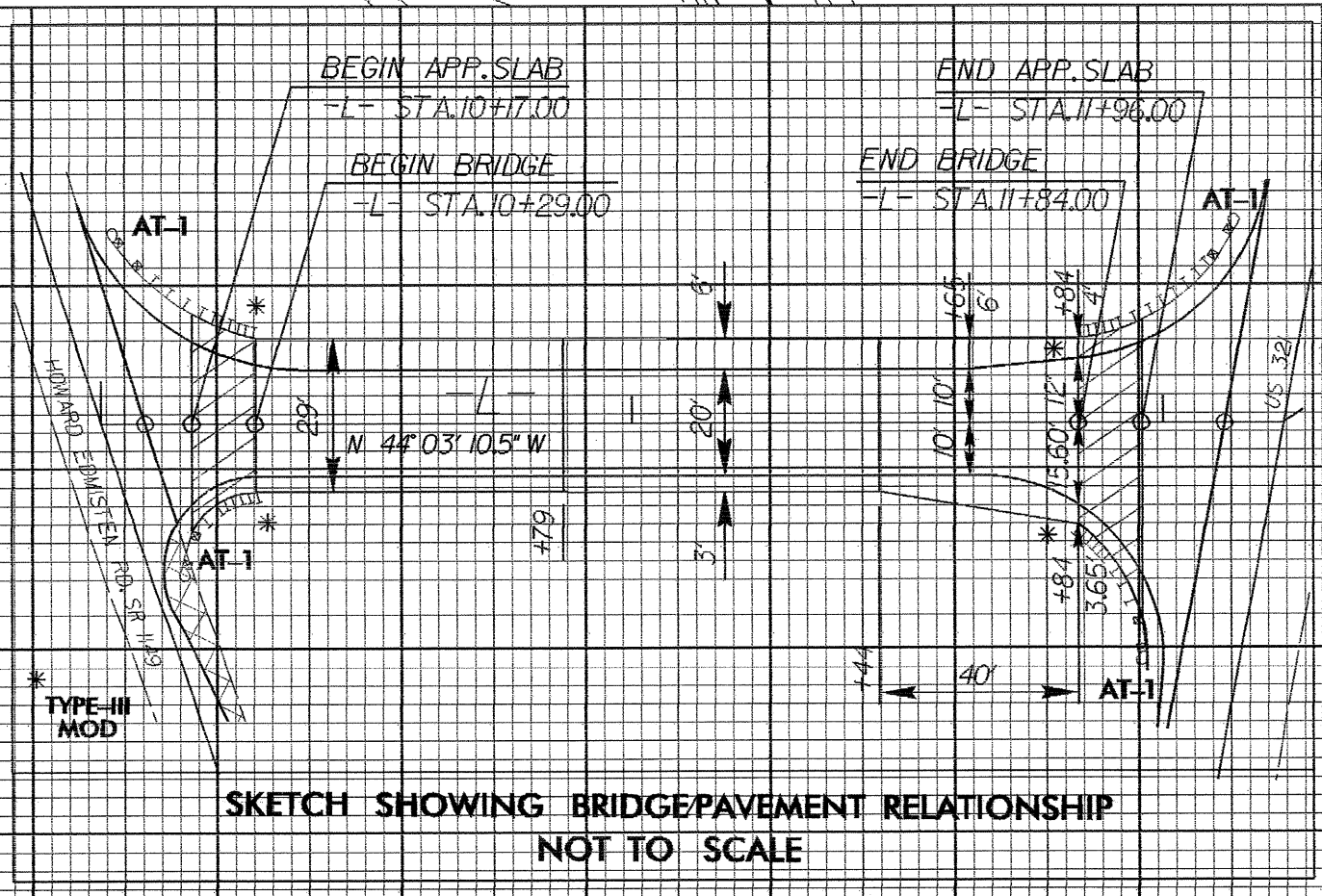
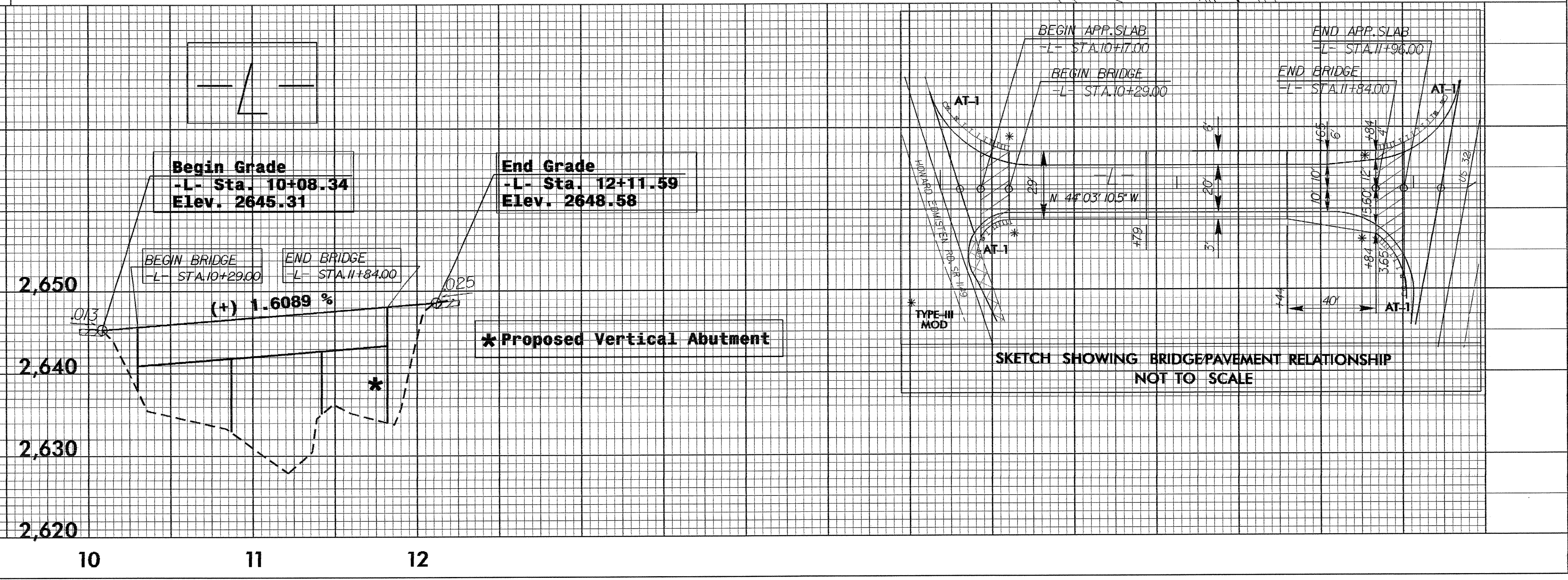
**BENCHMARK DATA**

BM #1 8" Spike in Root of 10' Black Birch Tree -BL- STA. 16+16.13 (44.71' RT.) Elev. 2667.44'	BM #2 PK Nail Set in SE Corner of Headwalk of 3' Barrel Box Culvert Under US-321 -BY- STA. 11+25.94 (35.57' RT.) -LI- STA. 11+72.40 (97.22' RT.) Elev. 2637.62'	BM #3 PK Nail Set in Concrete Island at Intersection of Phillips Branch Rd. (sr 1210) and US-321 -BY- STA. 23+78.99 (115.51' LT.) Elev. 2649.39'
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**BRIDGE DATA**  
BRIDGE #316  
OVER COVE CREEK

DESIGN Q =	4,600 cfs
DESIGN FREQ =	25 yr
DESIGN EL =	2639.8 ft
BASE FLOOD Q =	6,900 cfs
BASE FLOOD FREQ =	100 yr
BASE FLOOD EL =	2643.11
OT Q =	13,300 cfs
OT FREQ =	2,500 yr
OT EL =	2645.3 ft

**DATUM DESCRIPTION**  
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY MDDOT FOR MONUMENT "B-3922-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 921196376.000, EASTING: 118938229.000. THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (ROUND TO GRID) IS: 0.99990241. THE NAD 83 GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B-3922-1" TO "L-10+00.00" IS: 14° 38' 04" E, 197.92'. ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES. VERTICAL DATUM USED IS: MVD 29.



3/30/04  
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