

TIP PROJECT: B-1443

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

MITCHELL & YANCEY COUNTIES

LOCATION: BRIDGE No. 61 ON NC 197 OVER THE NORTH TOE RIVER
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURES

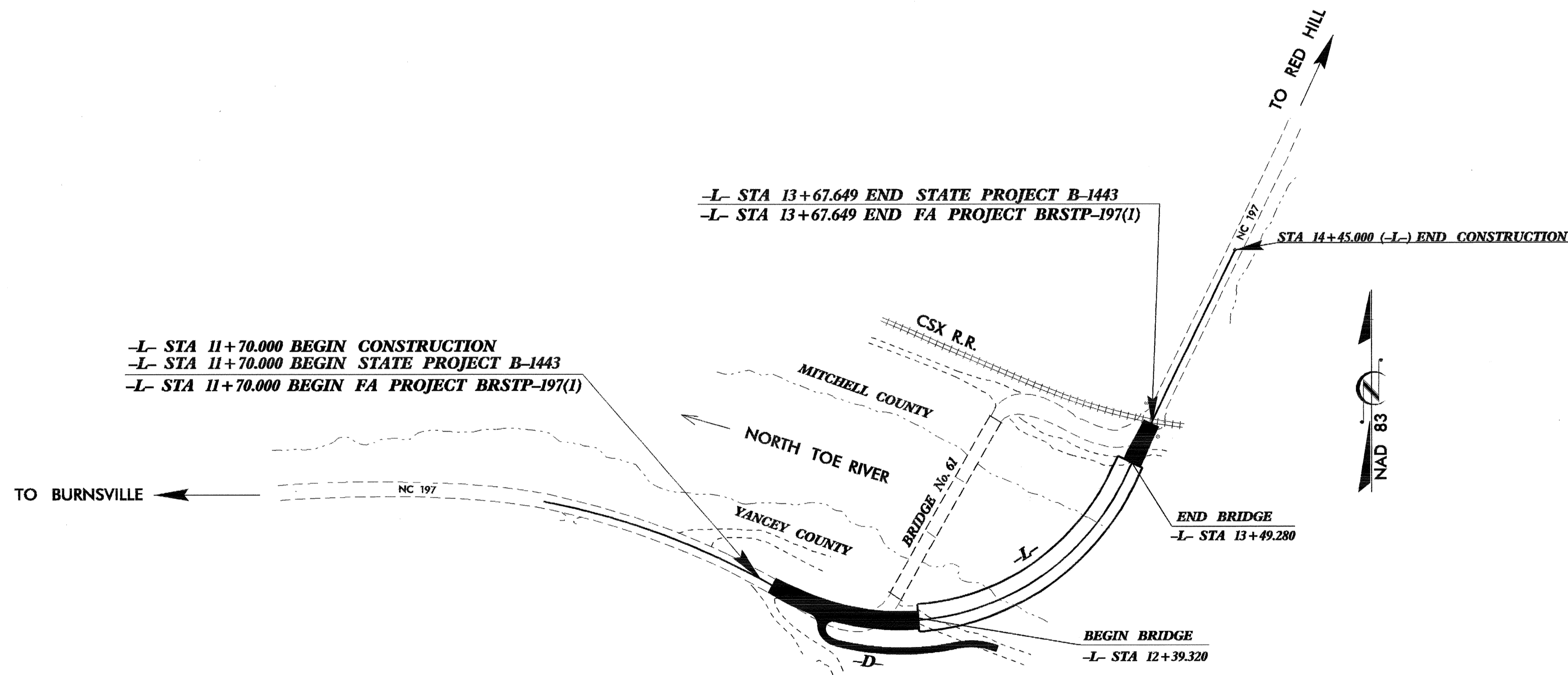
METRIC

ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE SHOWN

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-1443	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Reforestation	
1650.03	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	

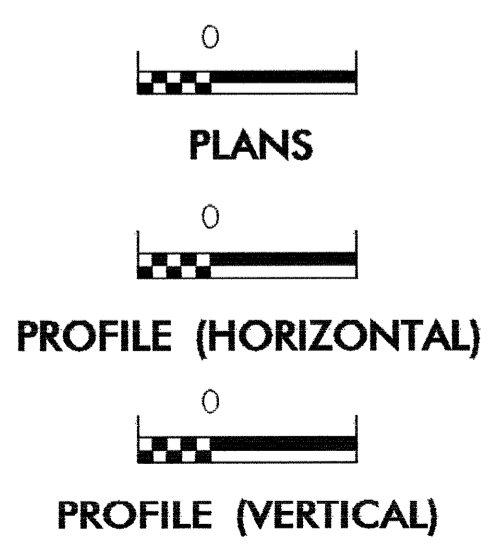


THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
Refer To E. C. Special Provisions for Special Considerations.

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2002 STANDARD SPECIFICATIONS

Roadway Standard Drawings

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

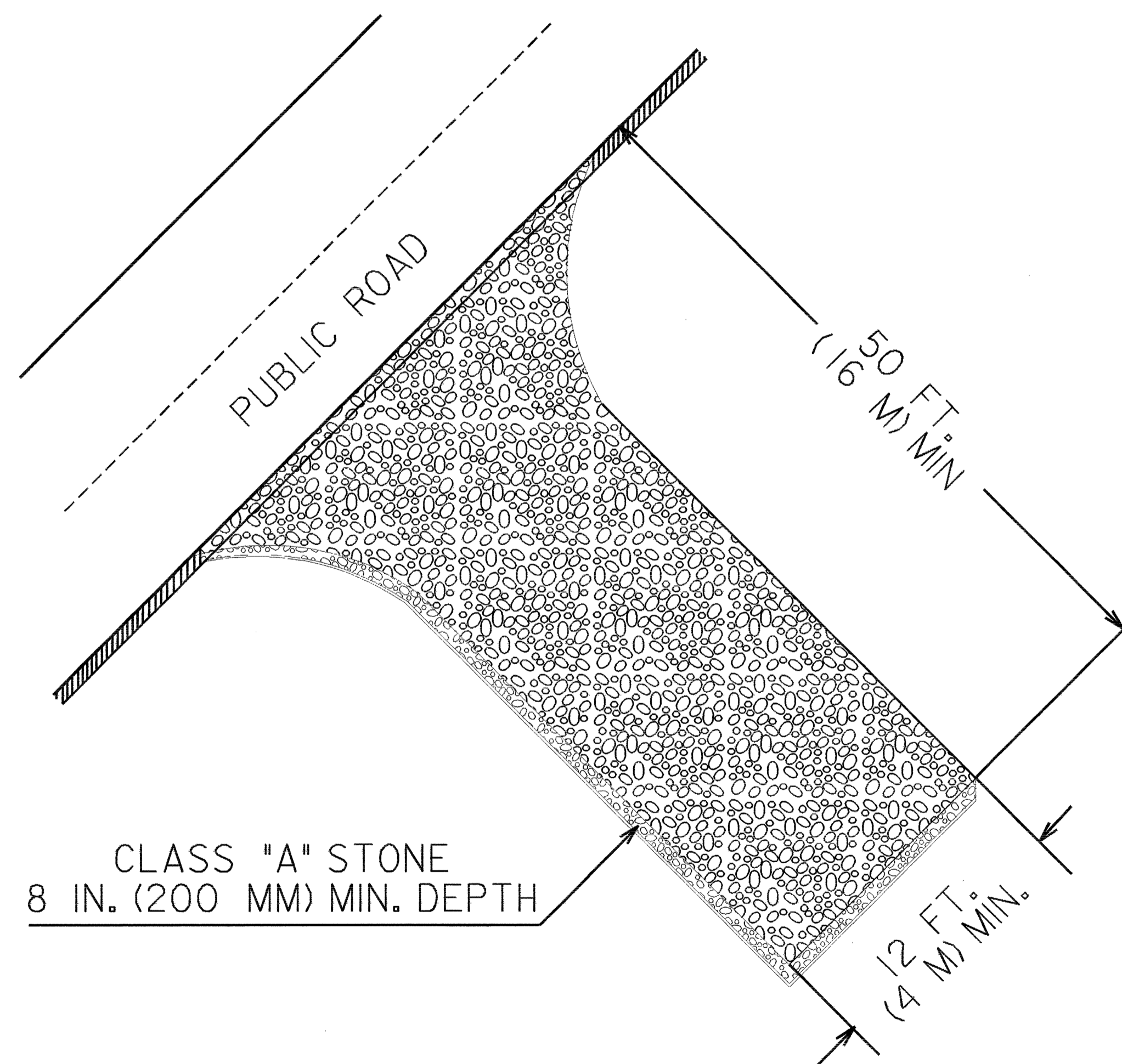
1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1630.02 Silt Basin Type B	1633.01 Temporary Rock Silt Check Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.05 Temporary Diversion	

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1443	EC-2	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

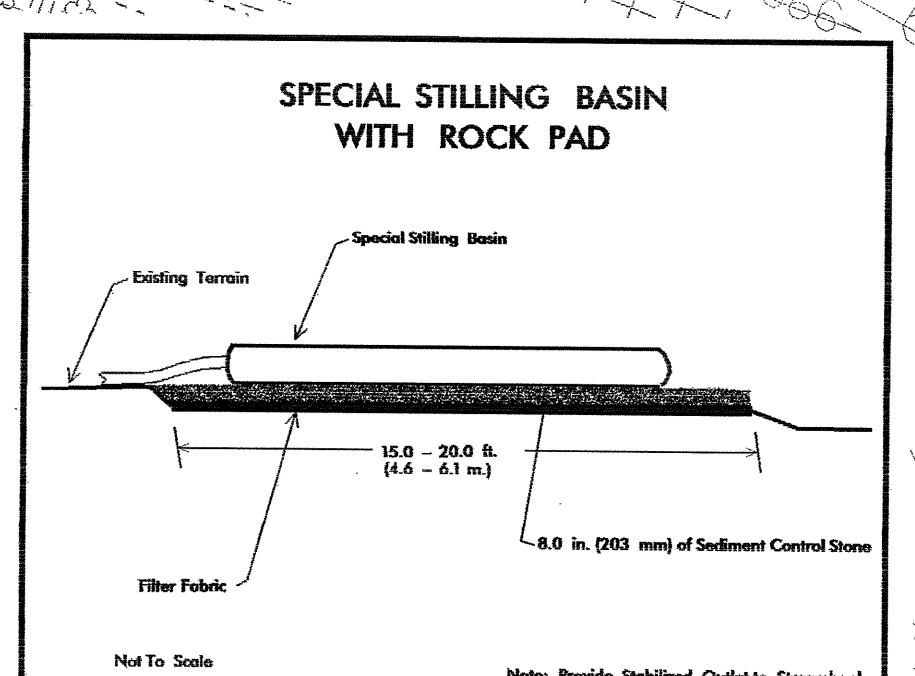
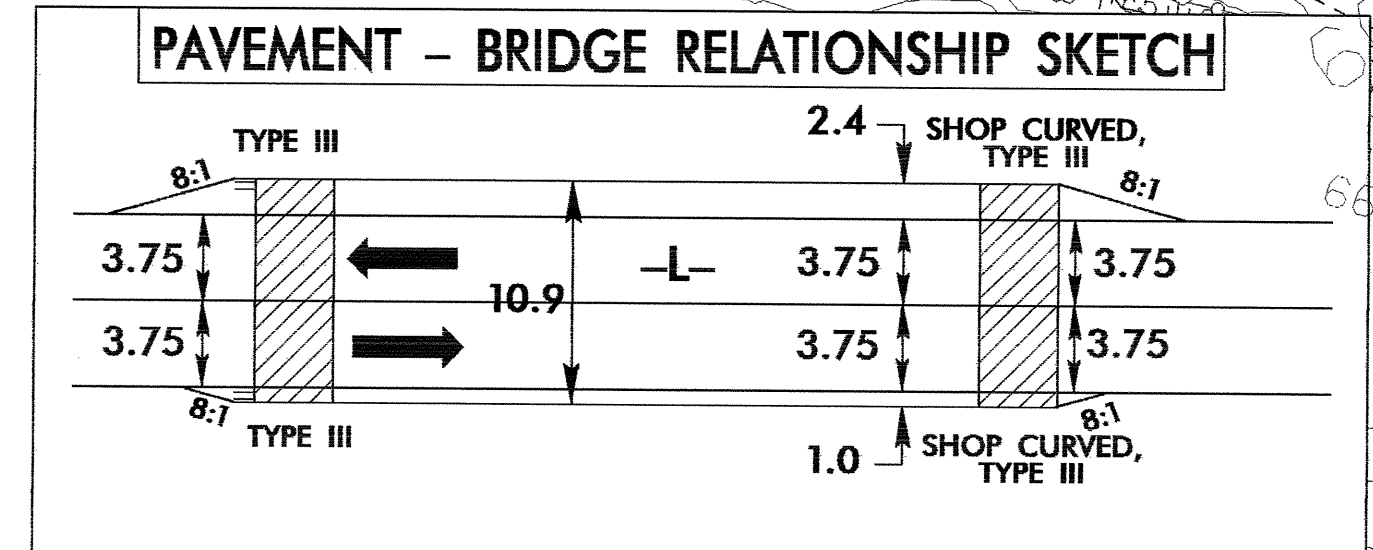
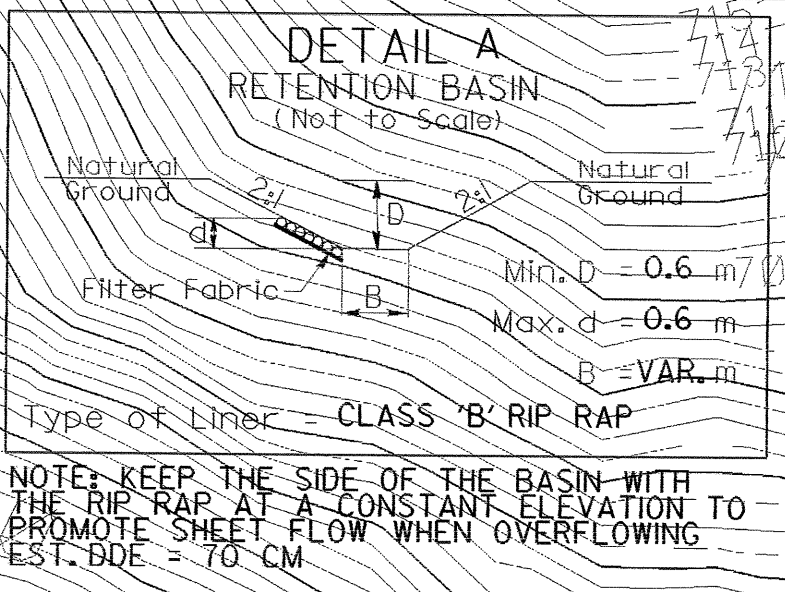
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

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



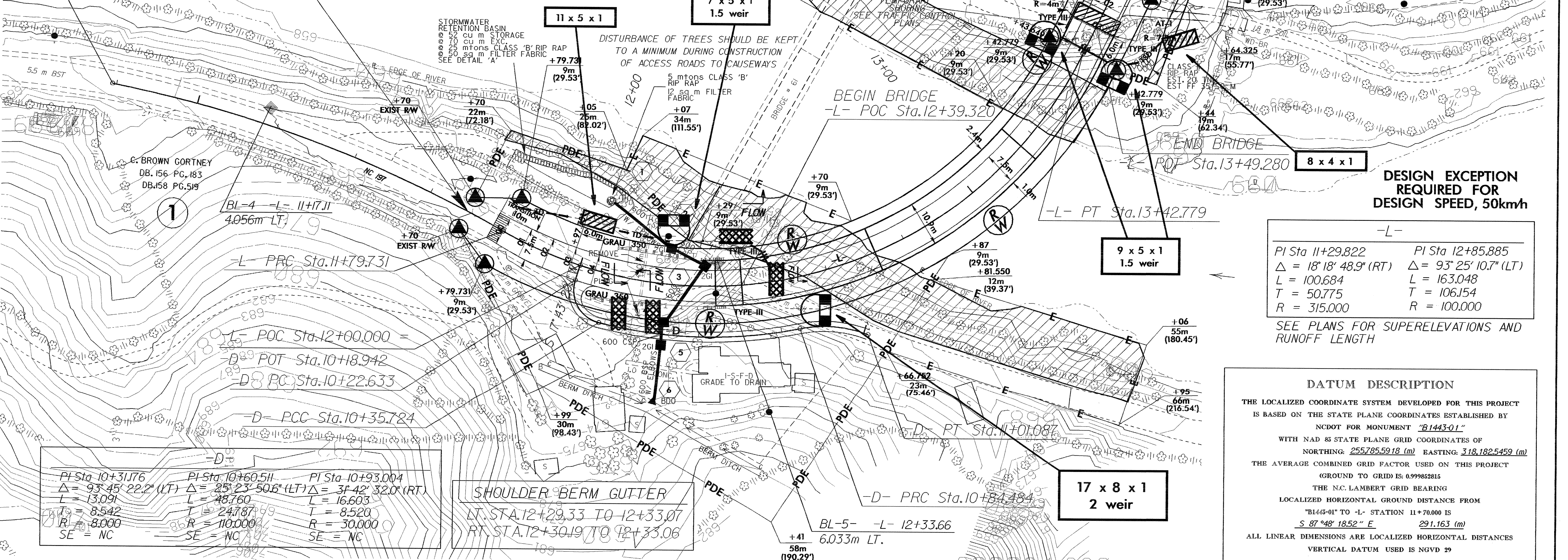
NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE



-L- POC STA 10+79.047

NORTH TOE RIVER

-L- STA 11+70.000 BEGIN PROJECT B-1443
-L- STA 11+70.000 BEGIN CONSTRUCTION



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

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE: UTILIZE SPECIAL STILLING BASIN AND OR TEMPORARY ROCK SEDIMENT DAM TYPE-B AS STILLING BASIN WHERE APPLICABLE.

NOTE: 2-BARREL CULV WAS FOR OLD ROADWAY ONLY

RESURFACE AS DIRECTED

NOTE: DISTURBANCE OF TREES SHOULD BE KEPT TO A MINIMUM DURING CONSTRUCTION OF ACCESS ROADS TO CAUSEWAYS

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED, 50km/h

SEE PLANS FOR SUPERELEVATIONS AND RUNOFF LENGTH

PI Sta 11+29.822 PI Sta 12+85.885
Δ = 18° 18' 48.9" (RT) Δ = 93° 25' 10.7" (LT)
L = 100.684 L = 163.048
T = 50.775 T = 106.154
R = 315.000 R = 100.000

SEE PLANS FOR SUPERELEVATIONS AND RUNOFF LENGTH

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B1443-01"

WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 255785.5918 (m) EASTING: 318,182.5459 (m)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999852815

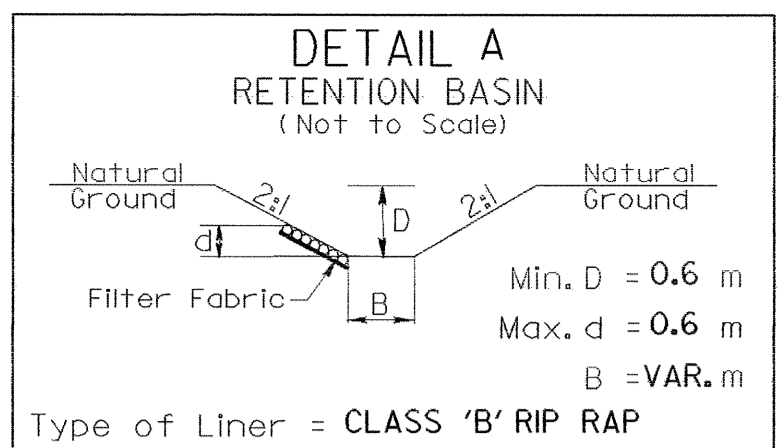
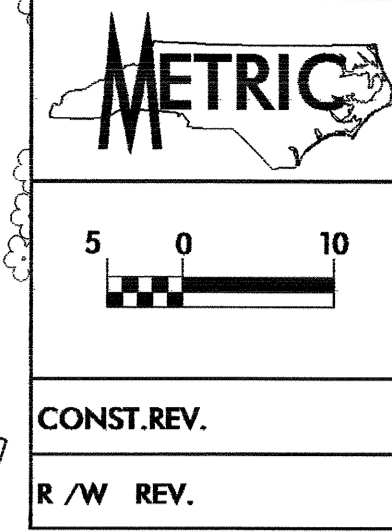
THE N.C. LAMBERT GRID BEARING LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B1443-01" TO -L- STATION 11+70.000 IS

S 87° 48' 18.52" E 291.163 (m)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

PI Sta 10+31.176 Δ = 93° 45' 22.2" (LT) L = 13.091 T = 8.542 R = 8.000 SE = NC	PI Sta 10+60.511 Δ = 25° 23' 50.6" (LT) L = 48.760 T = 24.787 R = 10.000 SE = NC	PI Sta 10+93.004 Δ = 31° 42' 32.0" (RT) L = 16.603 T = 8.520 R = 30.000 SE = NC
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PROJECT REFERENCE NO.	SHEET NO.
B-1443	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST. REV.	
R/W REV.	

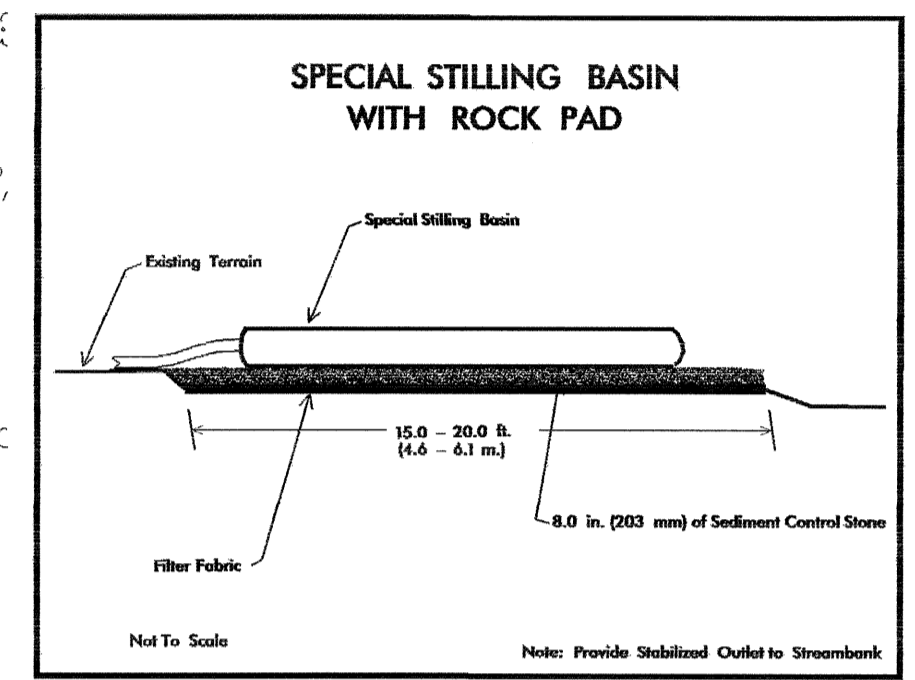
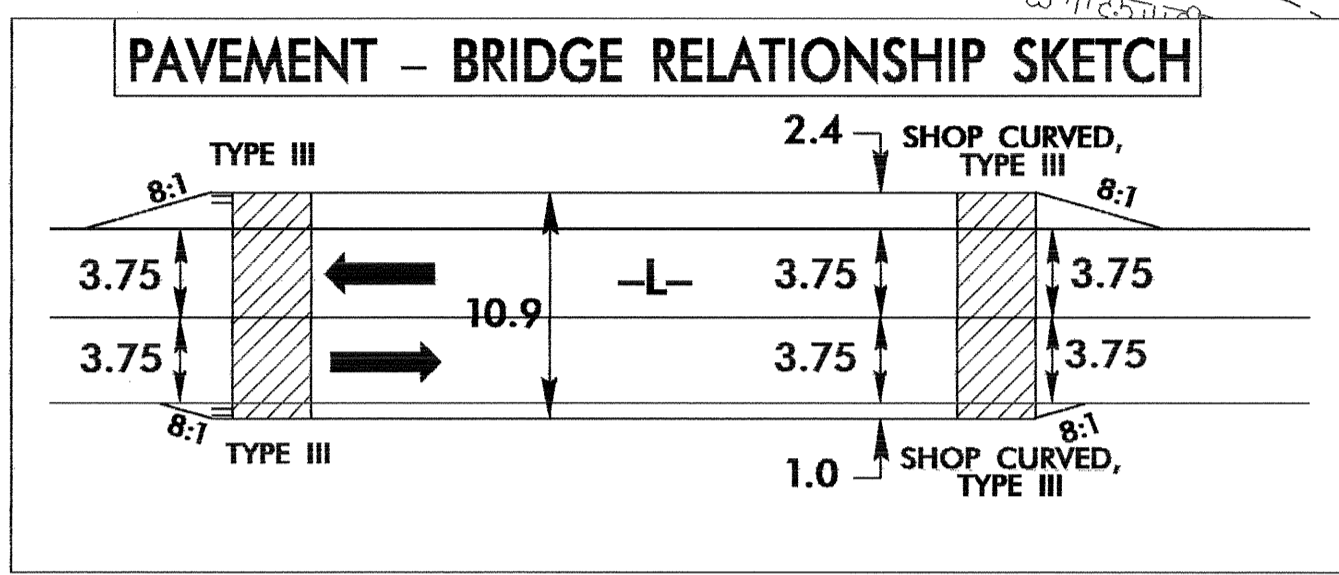


NOTE: KEEP THE SIDE OF THE BASIN WITH THE RIP RAP AT A CONSTANT ELEVATION TO PROMOTE SHEET FLOW WHEN OVERFLOWING TO EST. DDE = 70 CM

DARLENE RUDISILL
DB. 195 PG. 115
2

-L- STA 14+45.000 END CONSTRUCTION

-L- STA 13+67.649 END PROJECT B-1443



NOTE: UTILIZE SPECIAL STILLING BASIN AND OR TEMPORARY ROCK SEDIMENT DAM TYPE - B AS STILLING BASIN WHERE APPLICABLE.

NOTE: 2-BARREL CULV WAS FOR OLD ROADWAY ONLY

-L- POC STA 10+79.047

-L- STA 11+70.000 BEGIN PROJECT B-1443

-L- STA 11+70.000 BEGIN CONSTRUCTION

7 x 5 x 1
1.5 weir

11 x 5 x 1

DISTURBANCE OF TREES SHOULD BE KEPT TO A MINIMUM DURING CONSTRUCTION OF ACCESS ROADS TO CAUSEWAYS

BEGIN BRIDGE
-L- POC Sta. 12+39.320

END BRIDGE
-L- POT Sta. 13+49.280

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED, 50km/h

-L-	
PI Sta 11+29.822	PI Sta 12+85.885
$\Delta = 18^\circ 18' 48.9" (RT)$	$\Delta = 93^\circ 25' 10.7" (LT)$
L = 100.684	L = 163.048
T = 50.775	T = 106.154
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SEE PLANS FOR SUPERELEVATIONS AND RUNOFF LENGTH

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-D-		
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L = 13.091	L = 48.760	L = 16.603
T = 8.542	T = 24.787	T = 8.520
R = 8.000	R = 110.000	R = 30.000
SE = NC	SE = NC	SE = NC

SHOULDER BERM GUTTER
LT. STA. 12+29.33 TO 12+33.07
RT. STA. 12+30.19 TO 12+33.06

17 x 8 x 1
2 weir

11 x 5 x 1

