TIP PROJECT: B-4199

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4199	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

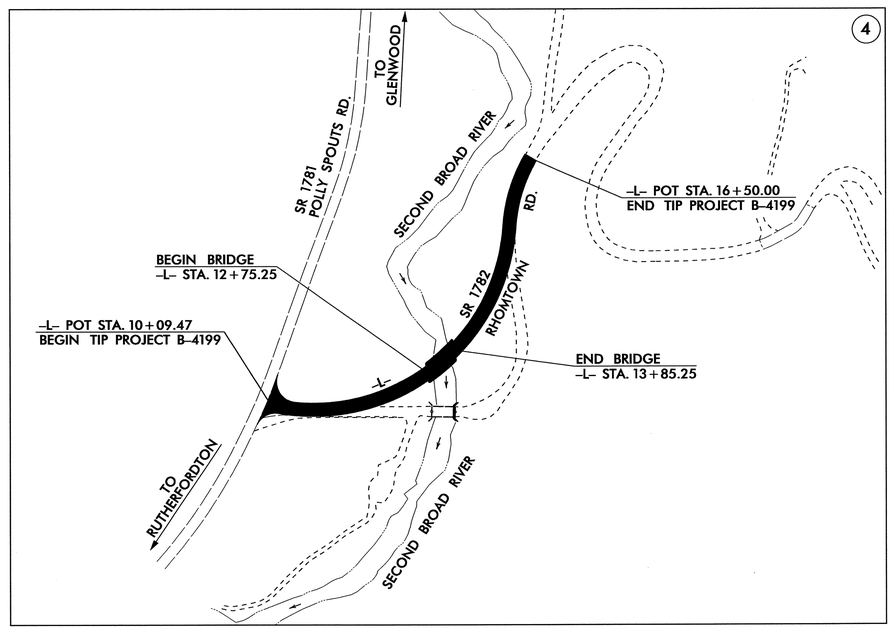
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

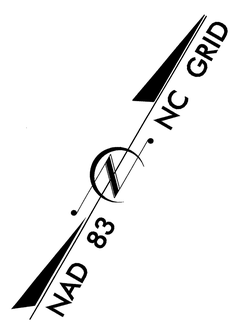
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

McDOWELL COUNTY

LOCATION: BRIDGE NO. 198 OVER SECOND BROAD RIVER ON SR 1782

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE





EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
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	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A OR A
1632.02	Type B	B OR B
1632.03	Type C	C OR C

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

GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

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 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 revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence

1630.03 Temporary Silt Ditch

1634.02 Temporary Rock Sediment Dam Type B

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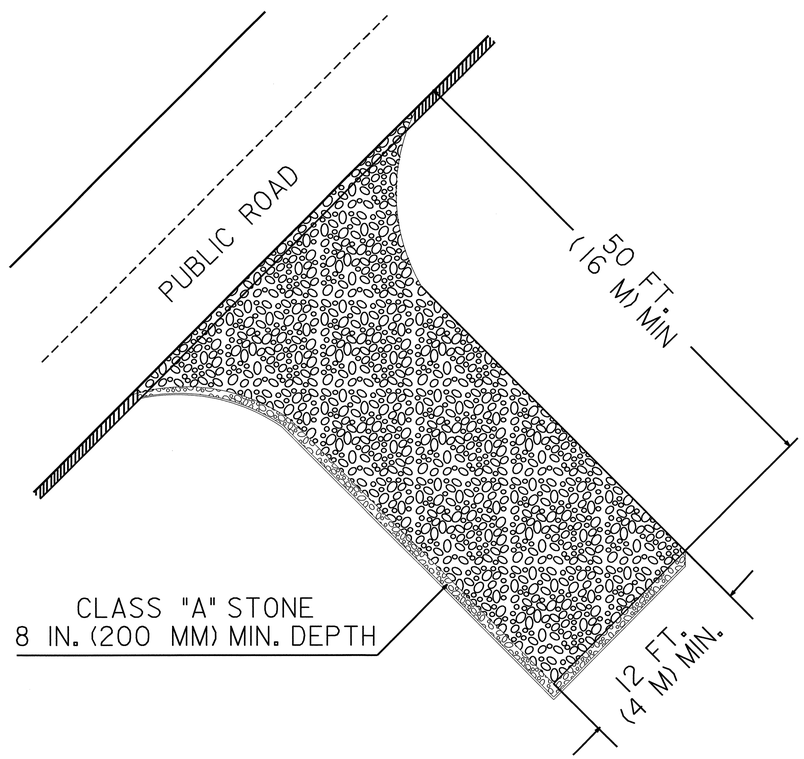
PROJECT REFERENCE NO.	SHEET NO.
B-4199	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-4199	EC-3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING

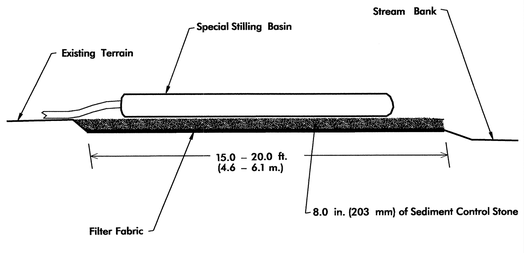
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	10+50	12+50	LT	140
				SUBTOTAL	140
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					365
				TOTAL	505
				SAY	505

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
B-4199	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SPECIAL STILLING BASIN WITH ROCK PAD



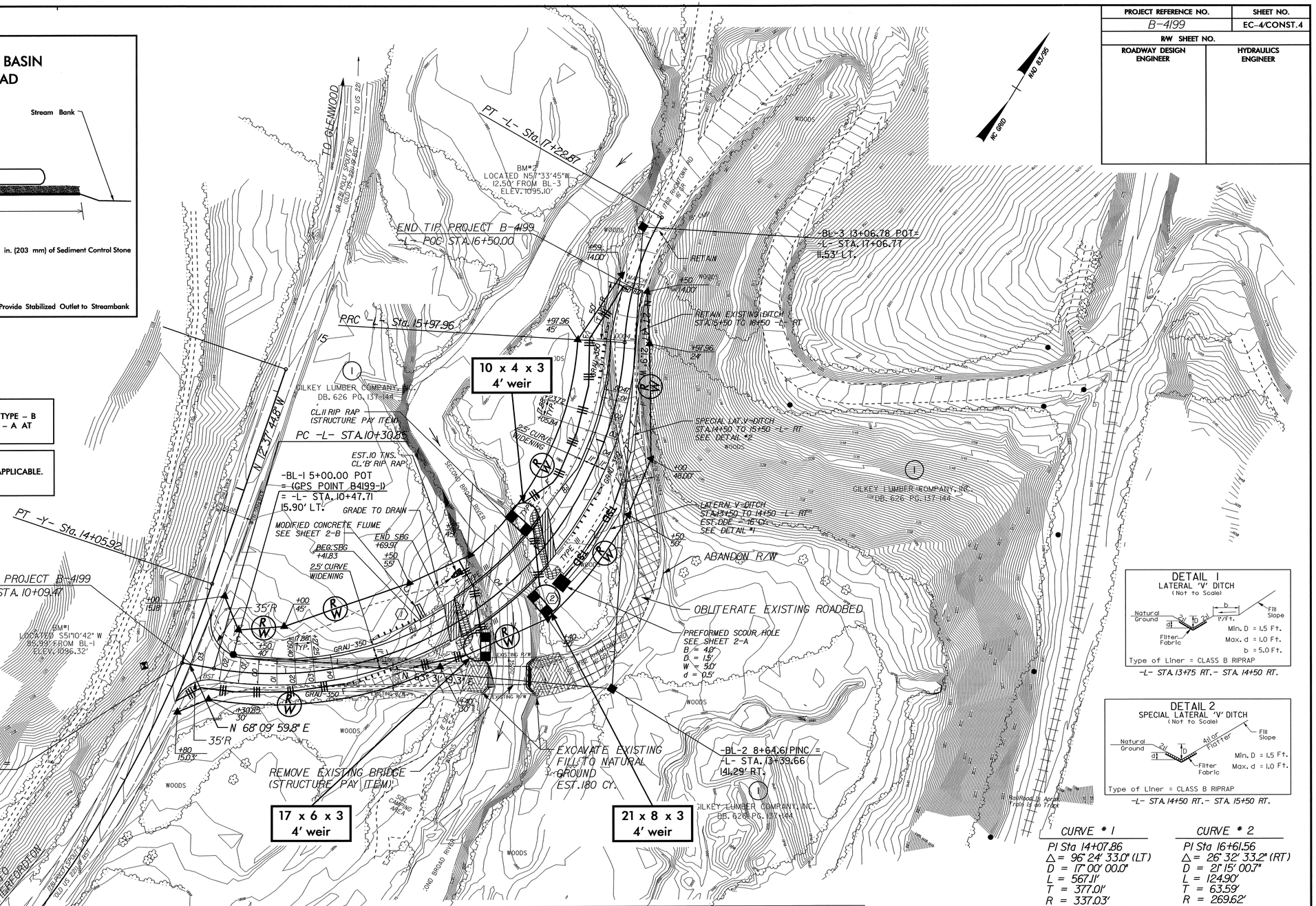
Not To Scale

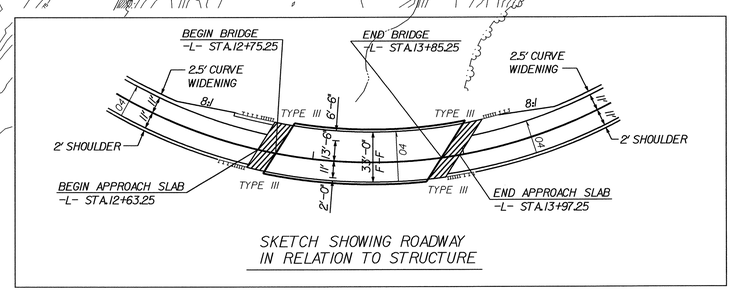
Note: Provide Stabilized Outlet to Streambank

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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

NOTE:
UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.





SKETCH SHOWING ROADWAY IN RELATION TO STRUCTURE

DETAIL 1
LATERAL 'V' DITCH
(Not to Scale)

Type of Liner = CLASS B RIPRAP

-L- STA.13+75 RT.- STA. 14+50 RT.

DETAIL 2
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Type of Liner = CLASS B RIPRAP

-L- STA.14+50 RT.- STA. 15+50 RT.

CURVE # 1	CURVE # 2
PI Sta 14+07.86	PI Sta 16+61.56
Δ = 96° 24' 33.0" (LT)	Δ = 26° 32' 33.2" (RT)
D = 17° 00' 00.0"	D = 21° 15' 00.7"
L = 567.11'	L = 124.90'
T = 377.01'	T = 63.59'
R = 337.03'	R = 269.62'
e = SEE PLANS	e = SEE PLANS
RUNOFF = SEE PLANS	RUNOFF = SEE PLANS

SBG – DENOTES SHOULDER BERM GUTTER

DENOTES EXCAVATE EXISTING FILL

OBLITERATE EXISTING ROADBED

DENOTES APPROACH SLAB

FOR -L- PROFILE SEE SHEET NO.5

SEE SHEETS S-1 THRU S- FOR STRUCTURE PLANS

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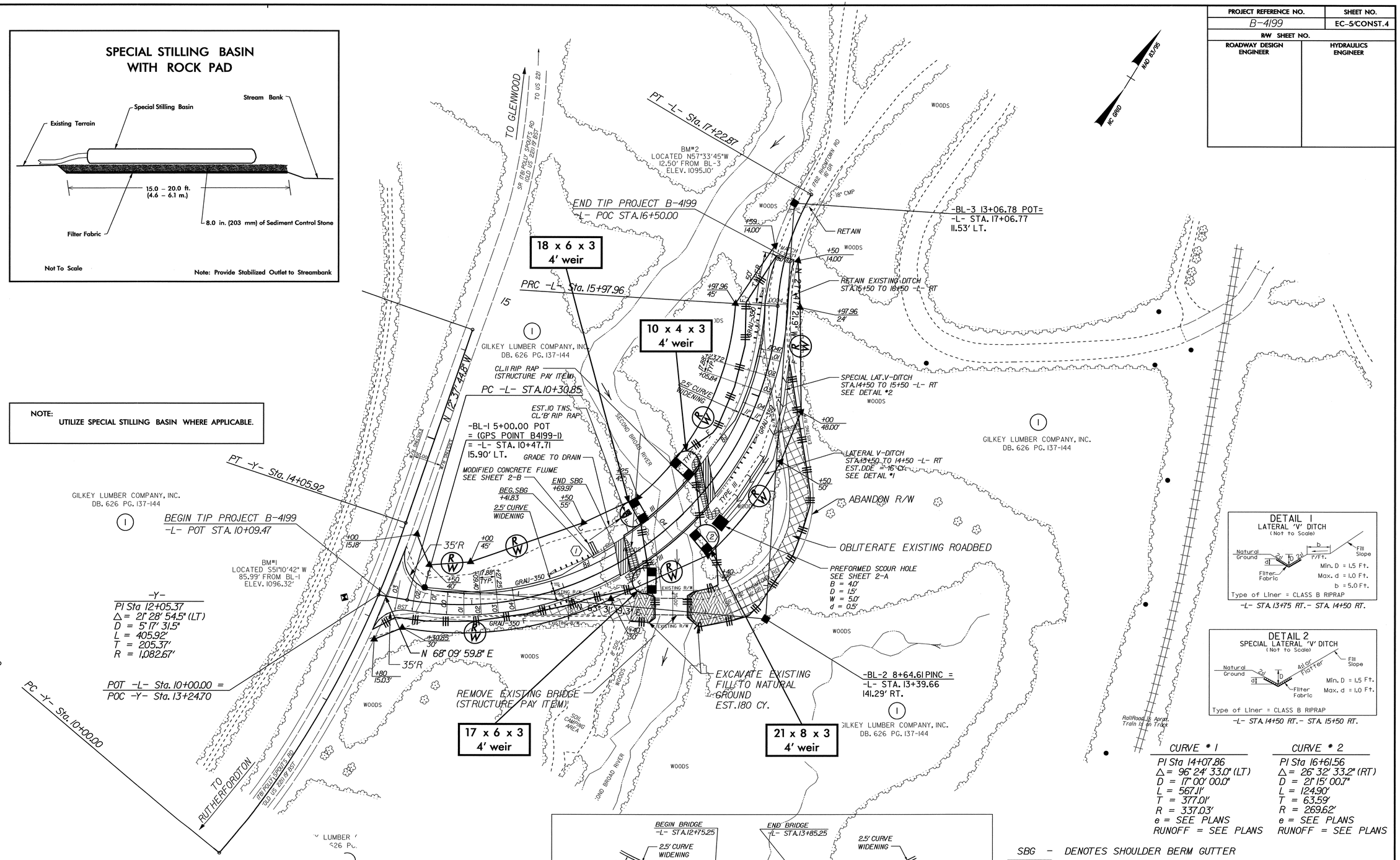
PROJECT REFERENCE NO.	SHEET NO.
B-4199	EC-5/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SPECIAL STILLING BASIN WITH ROCK PAD

NOTE:
UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.



DETAIL 1
LATERAL 'V' DITCH
(Not to Scale)

-L- STA. 13+75 RT.- STA. 14+50 RT.

DETAIL 2
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

-L- STA. 14+50 RT.- STA. 15+50 RT.

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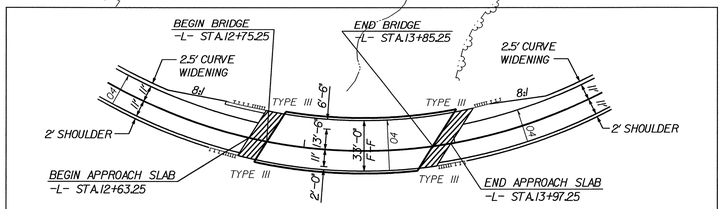
RUNOFF = SEE PLANS

CURVE # 2
PI Sta 16+61.56
Δ = 26° 32' 33.2" (RT)
D = 21° 15' 00.7"
L = 124.90'
T = 63.59'
R = 269.62'
e = SEE PLANS
RUNOFF = SEE PLANS



SKETCH SHOWING ROADWAY IN RELATION TO STRUCTURE

SBG – DENOTES SHOULDER BERM GUTTER
DENOTES EXCAVATE EXISTING FILL
OBLITERATE EXISTING ROADBED
DENOTES APPROACH SLAB

FOR -L- PROFILE SEE SHEET NO.5

SEE SHEETS S-1 THRU S- FOR STRUCTURE PLANS

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