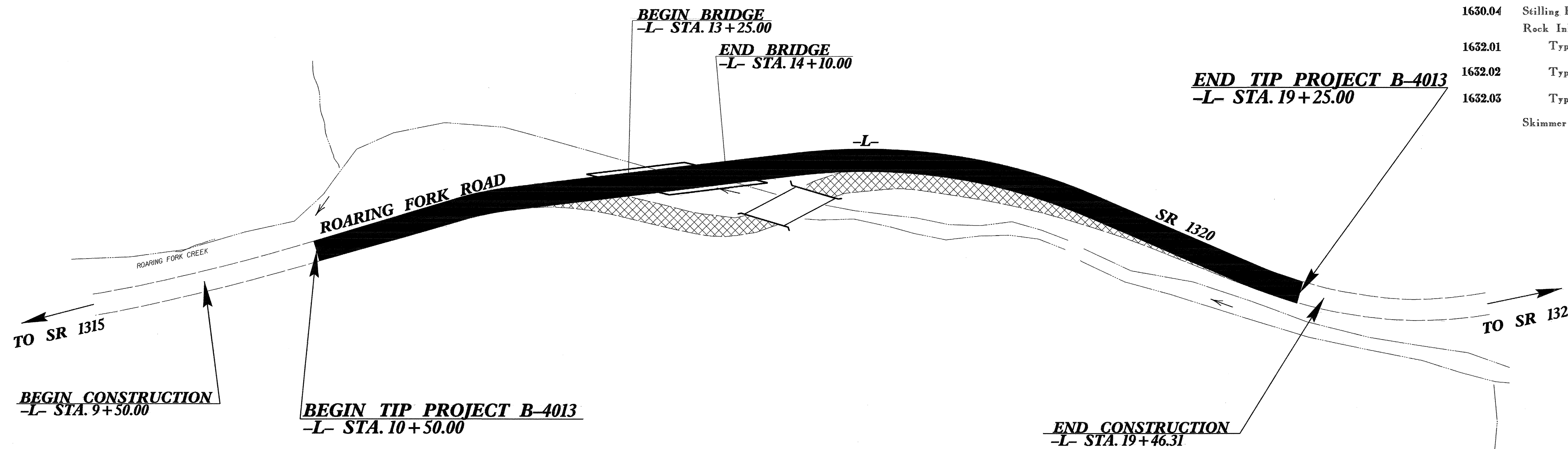
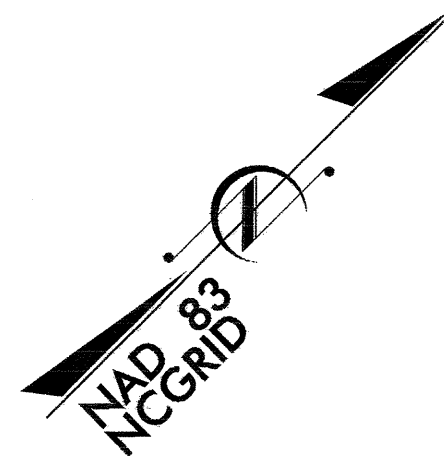


TIP PROJECT: B-4013

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

**LOCATION: BRIDGE NO. 338 OVER ROARING FORK CREEK
 ON SR 1320 (ROARING FORK RD.)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4013	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank 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.....	
1650.01	Riser Basin.....	
1630.02	Silt Basin Type B.....	
1633.01	Temporary Rock Silt Check Type-A.....	
	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.....	
1632.02	Type B.....	
1632.03	Type C.....	
	Skimmer Basin.....	

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

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

**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

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

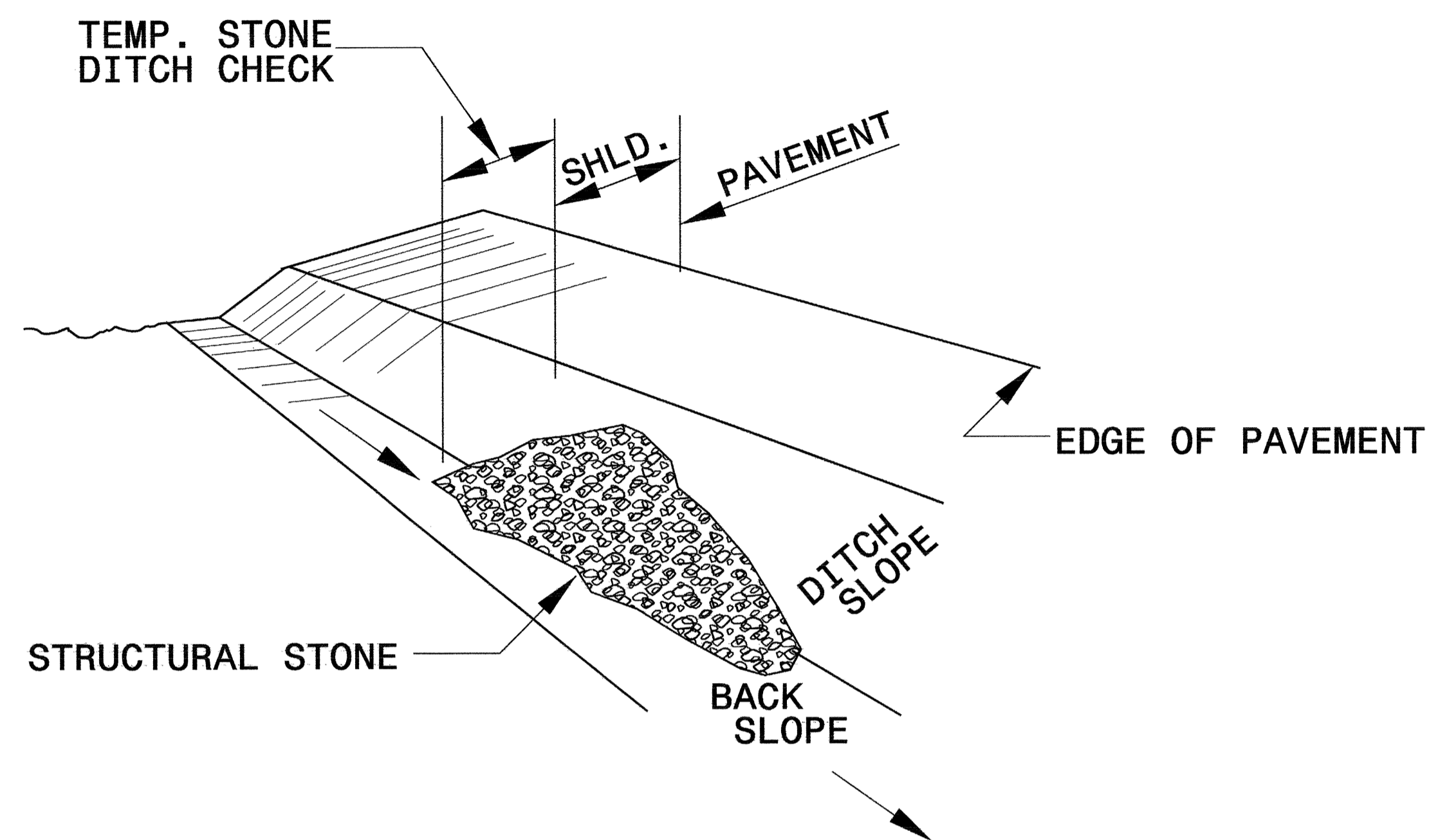
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 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	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.05 Temporary Diversion	1635.01 Rock Pipe Inlet Sediment Trap Type A
	1635.02 Rock Pipe Inlet Sediment Trap Type B

PROJECT REFERENCE NO. B-4013	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

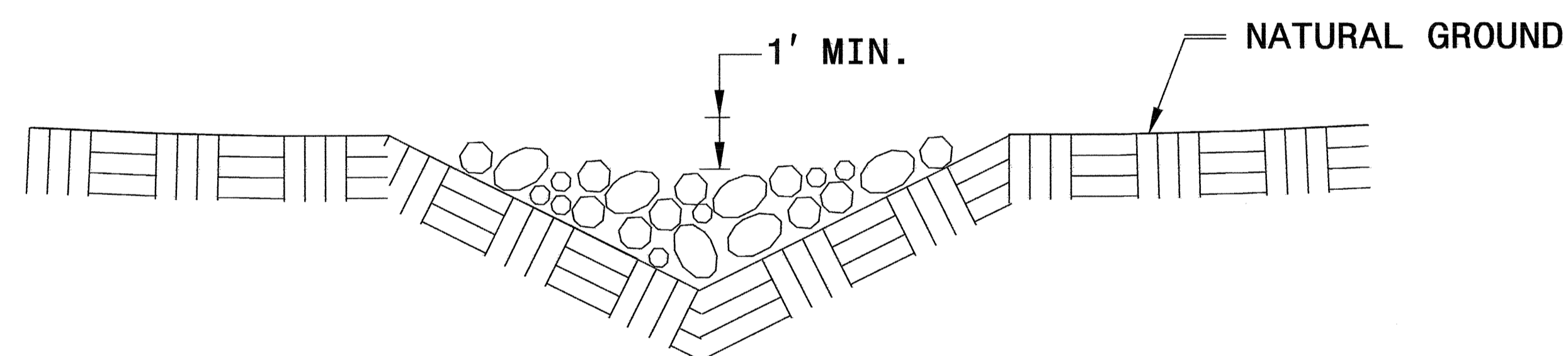


ISOMETRIC VIEW

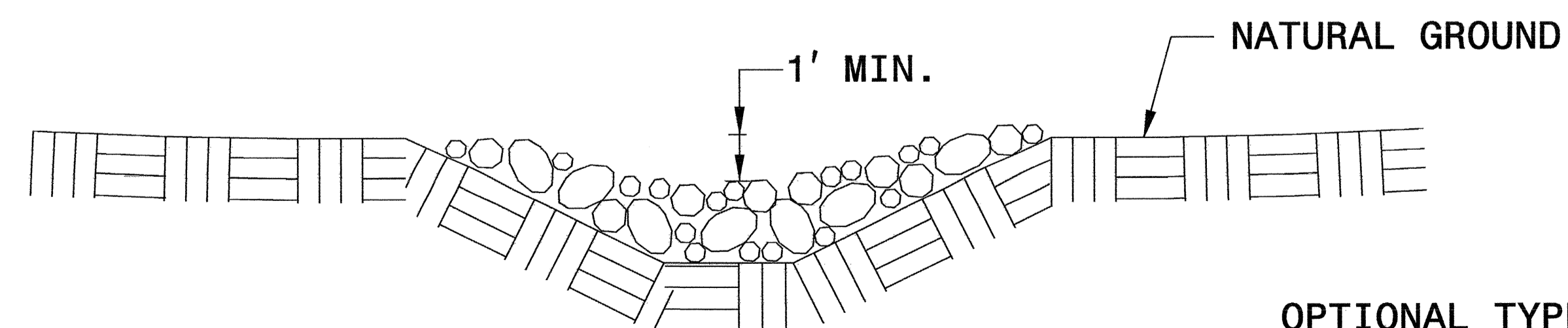
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

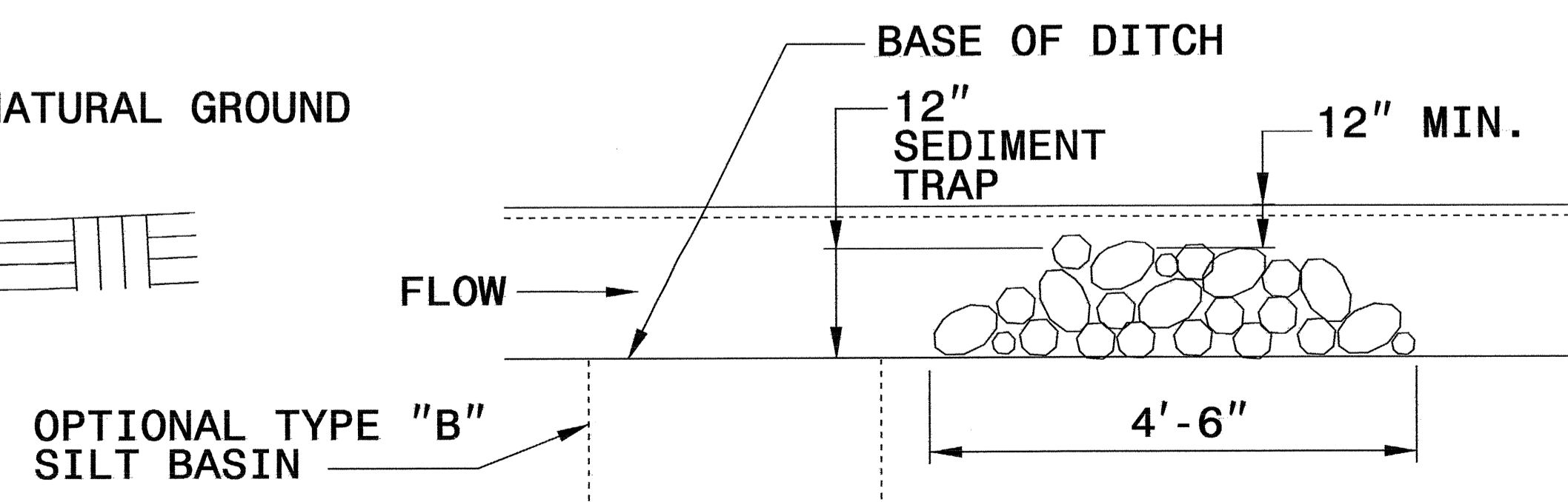
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



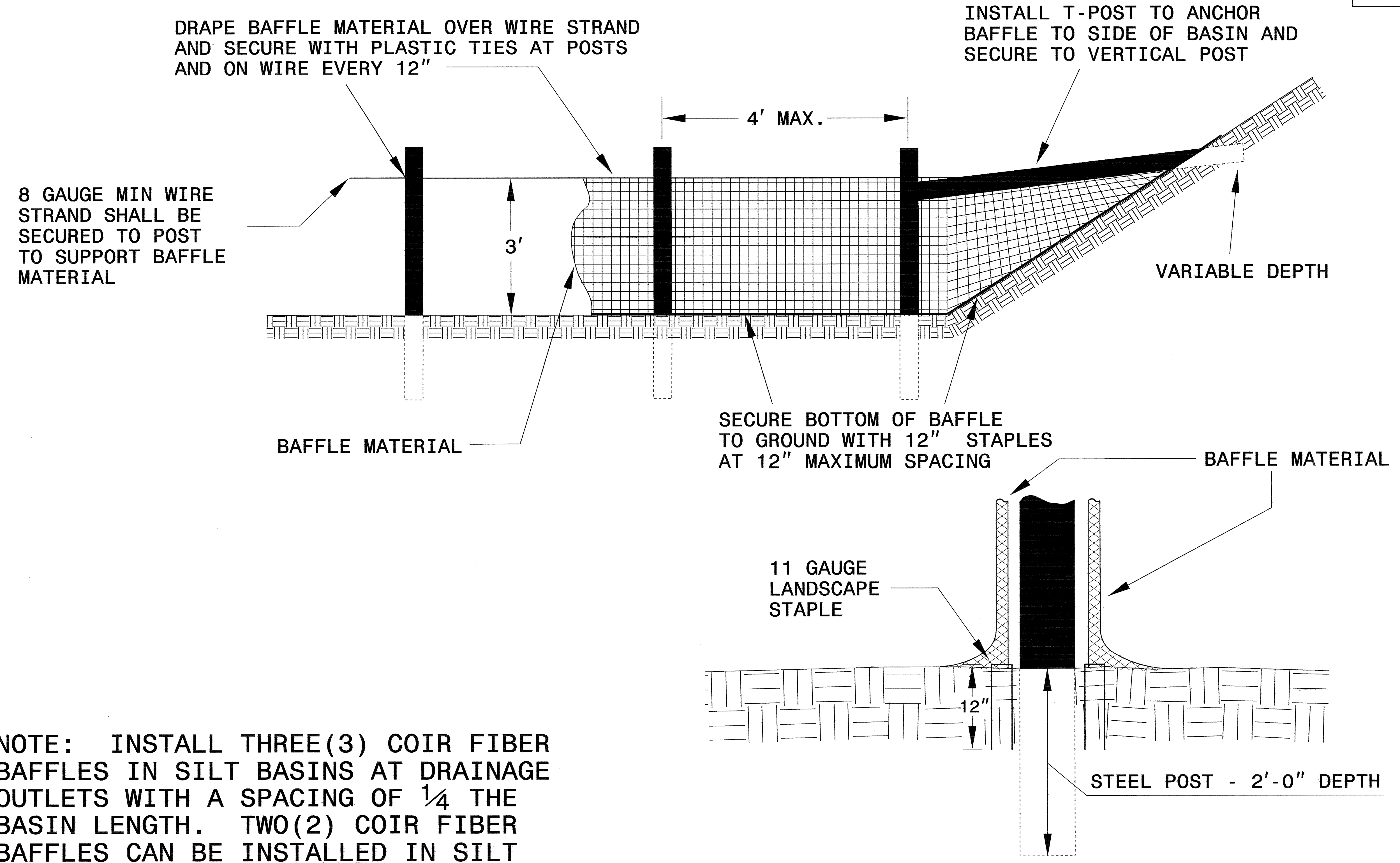
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. B-4013	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

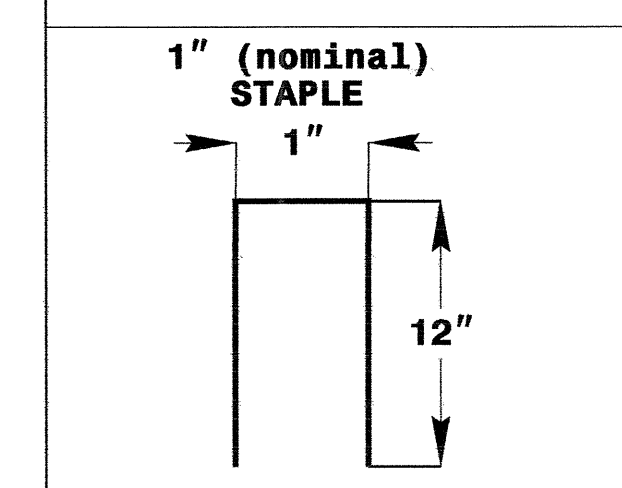
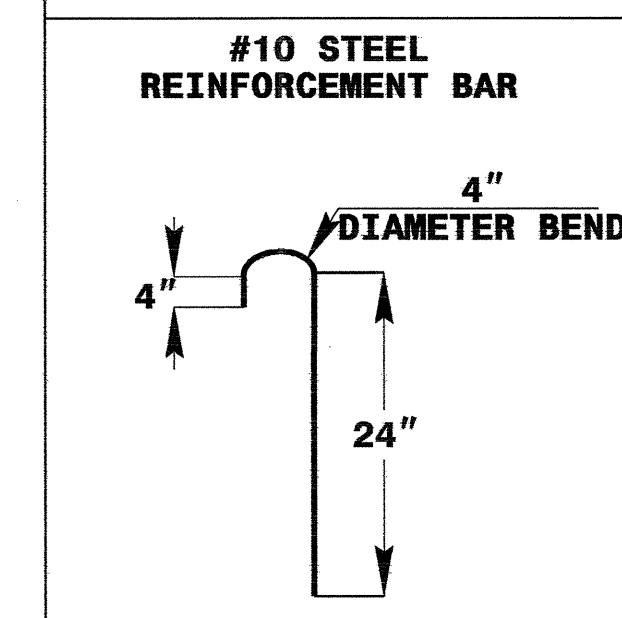
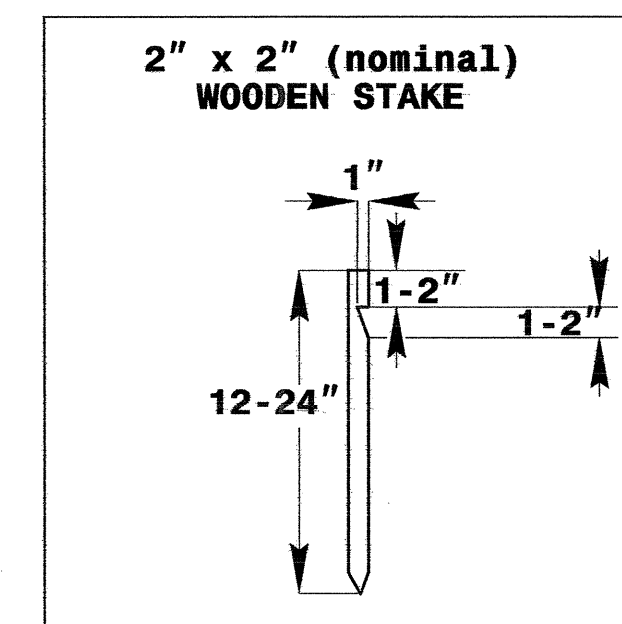
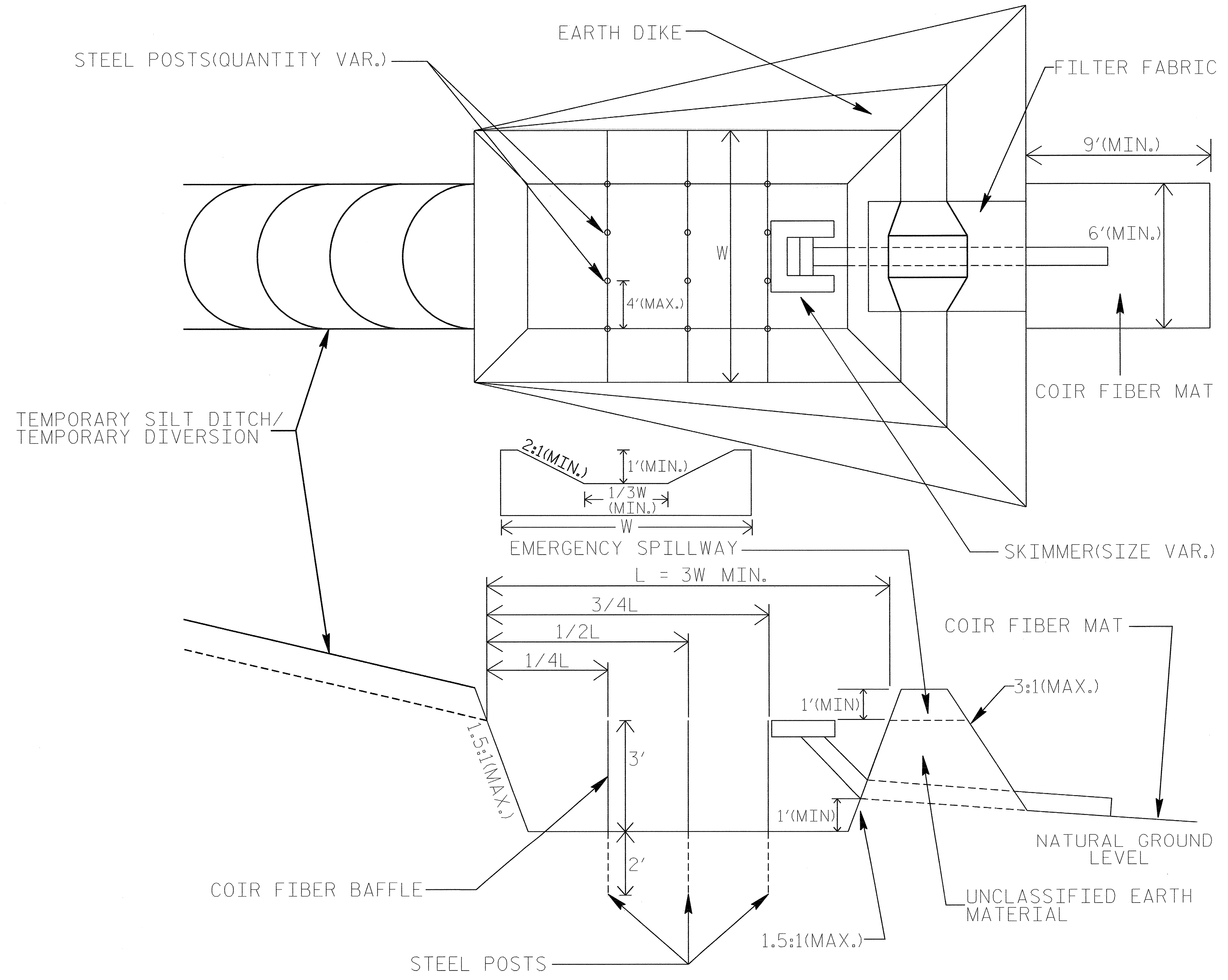


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. B-4013	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



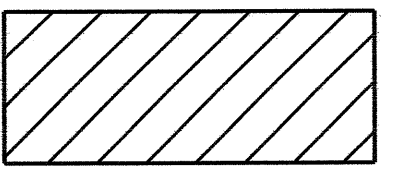
COIR FIBER MAT ANCHOR OPTIONS

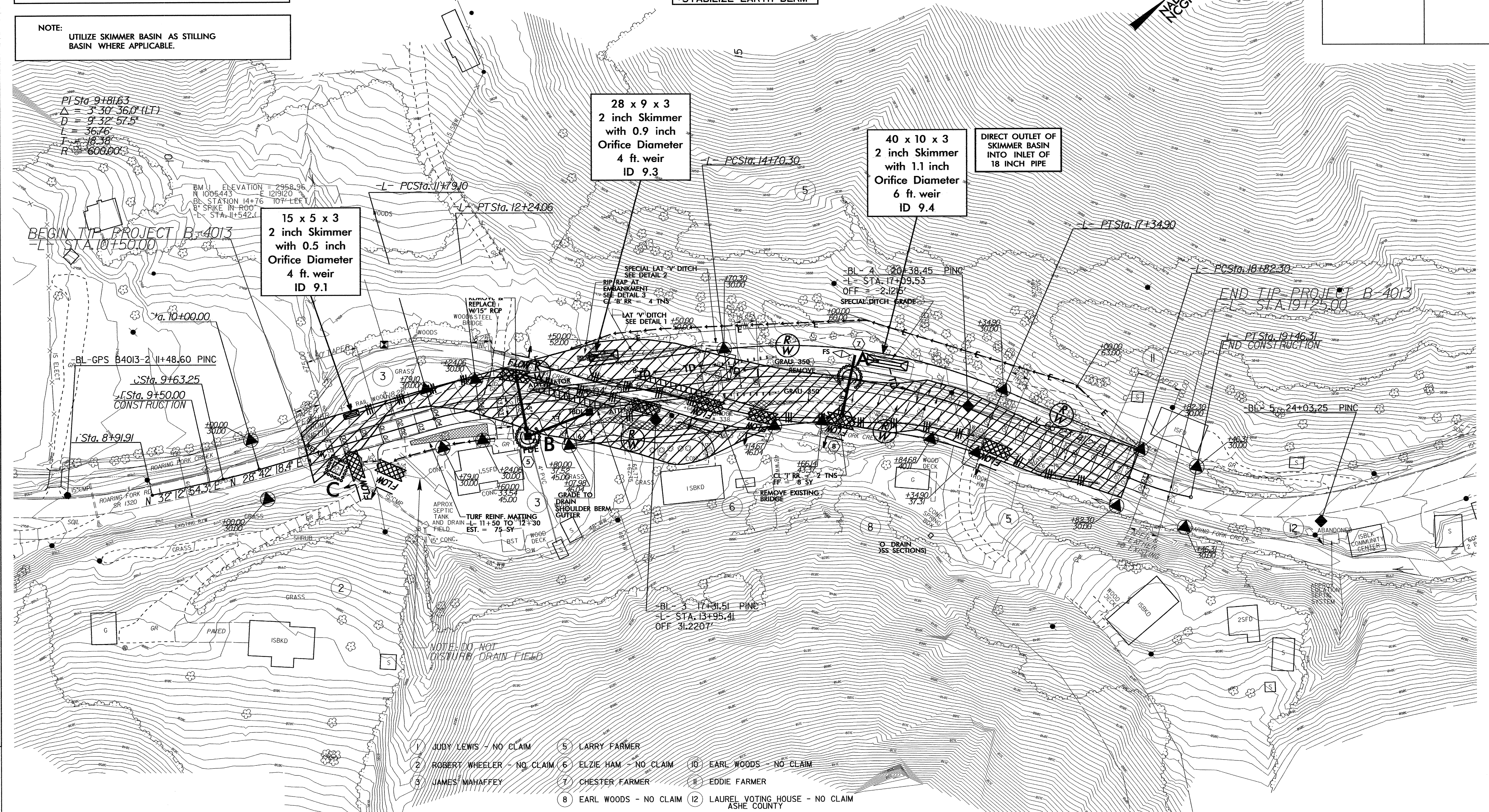
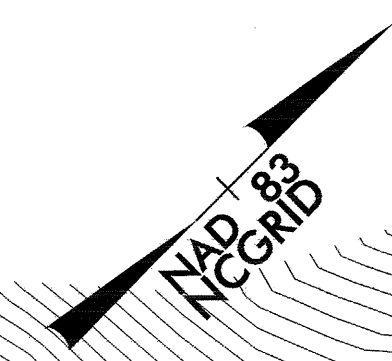
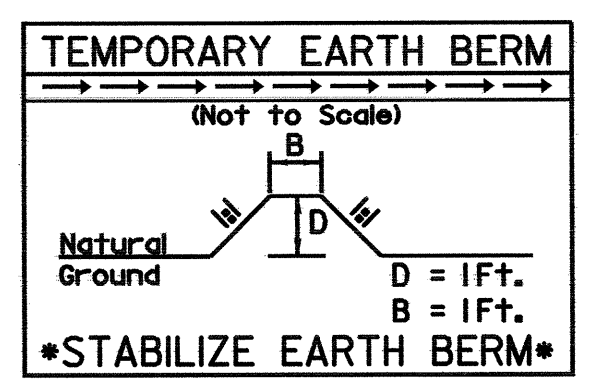
PROJECT REFERENCE NO.	SHEET NO.
B-4013	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

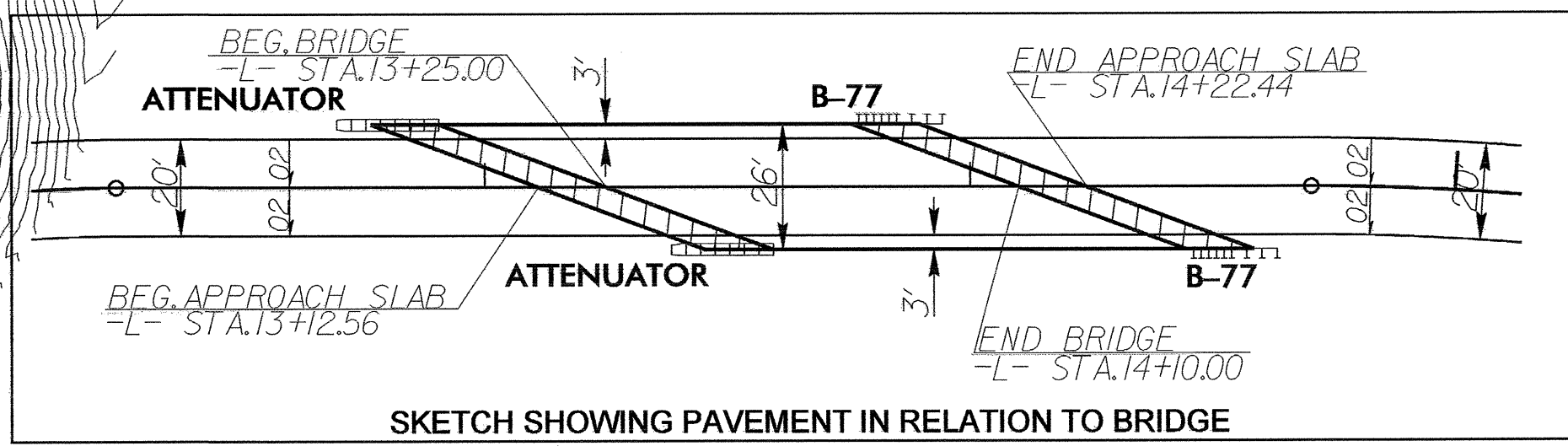
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.


NOTE:
UTILIZE SKIMMER BASIN AS STILLING
BASIN WHERE APPLICABLE.

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



- 1 JUDY LEWIS - NO CLAIM
- 2 ROBERT WHEELER - NO CLAIM
- 3 JAMES MAHAFFEY
- 4 LARRY FARMER
- 5 ELZIE HAM - NO CLAIM
- 6 CHESTER FARMER
- 7 EARL WOODS - NO CLAIM
- 8 EARL WOODS - NO CLAIM
- 9 LARRY FARMER
- 10 EARL WOODS - NO CLAIM
- 11 EDDIE FARMER
- 12 LAUREL VOTING HOUSE - NO CLAIM ASHE COUNTY

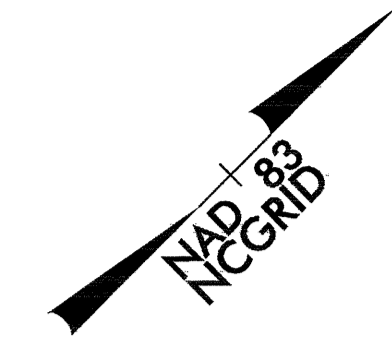
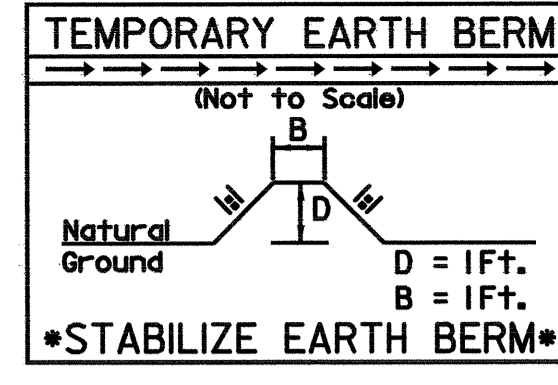


 PERMANENT SOIL
REINFORCEMENT MATTING
SEE SHEET 5 FOR -L- PROFILE

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
B-4013	EC-05/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:
UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

PI Sta 9+81.63
 $\Delta = 3' 30'' 36.0''$ (LT)
 $D = 9' 32'' 57.5''$
 $L = 36.76'$
 $T = 16.38'$
 $R = 606.00'$

BM I ELEVATION = 2958.96
 N 1005443 E 1219120
 BL STATION 14+76 107' LEFT
 8" SPIKE IN ROAD
 L- STA. 11+542.4

BEGIN TIP PROJECT B-4013
 L- STA. 10+50.00

15 x 5 x 3
 2 inch Skimmer
 with 0.5 inch
 Orifice Diameter
 4 ft. weir
 ID 9.1

Place Matting for Erosion Control
 on Slope as Work Allows.

28 x 9 x 3
 2 inch Skimmer
 with 0.9 inch
 Orifice Diameter
 4 ft. weir
 ID 9.3

40 x 10 x 3
 2 inch Skimmer
 with 1.1 inch
 Orifice Diameter
 6 ft. weir
 ID 9.4

DIRECT OUTLET OF
 SKIMMER BASIN
 INTO INLET OF
 18 INCH PIPE

END TIP PROJECT B-4013
 L- STA. 19+25.00

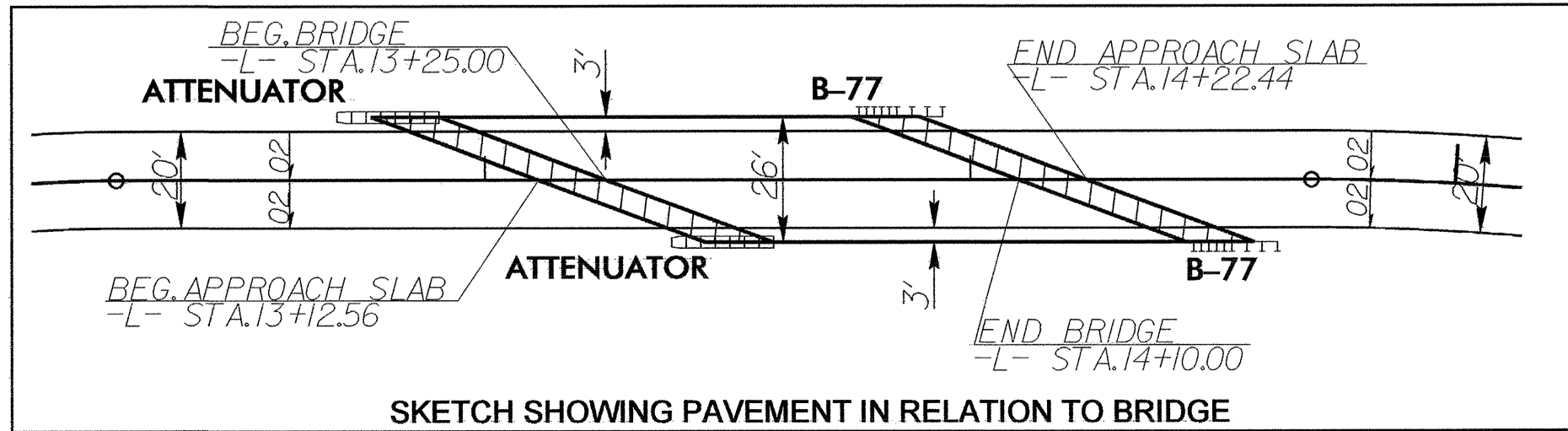
BL-GPS B4013-2 II+48.60 PINC
 Sta. 9+63.25
 Sta. 9+50.00
 CONSTRUCTION
 Sta. 8+91.91

Place Matting for Erosion Control
 on Slope as Work Allows.

Place Matting for Erosion Control
 on Slope as Work Allows.

NOTE: DO NOT
 DISTURB DRAIN FIELD

- | | |
|-----------------------------|--|
| 1 JUDY LEWIS - NO CLAIM | 5 LARRY FARMER |
| 2 ROBERT WHEELER - NO CLAIM | 6 ELZIE HAM - NO CLAIM |
| 3 JAMES MAHAFFEY | 7 CHESTER FARMER |
| | 8 EARL WOODS - NO CLAIM |
| | 10 EARL WOODS - NO CLAIM |
| | 11 EDDIE FARMER |
| | 12 LAUREL VOTING HOUSE - NO CLAIM
ASHE COUNTY |



PERMANENT SOIL
 REINFORCEMENT MATTING
 SEE SHEET 5 FOR -L- PROFILE

8/17/99
 REVISIONS
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 10/22/06
 11 RENY221500