

TIP PROJECT: B-4675

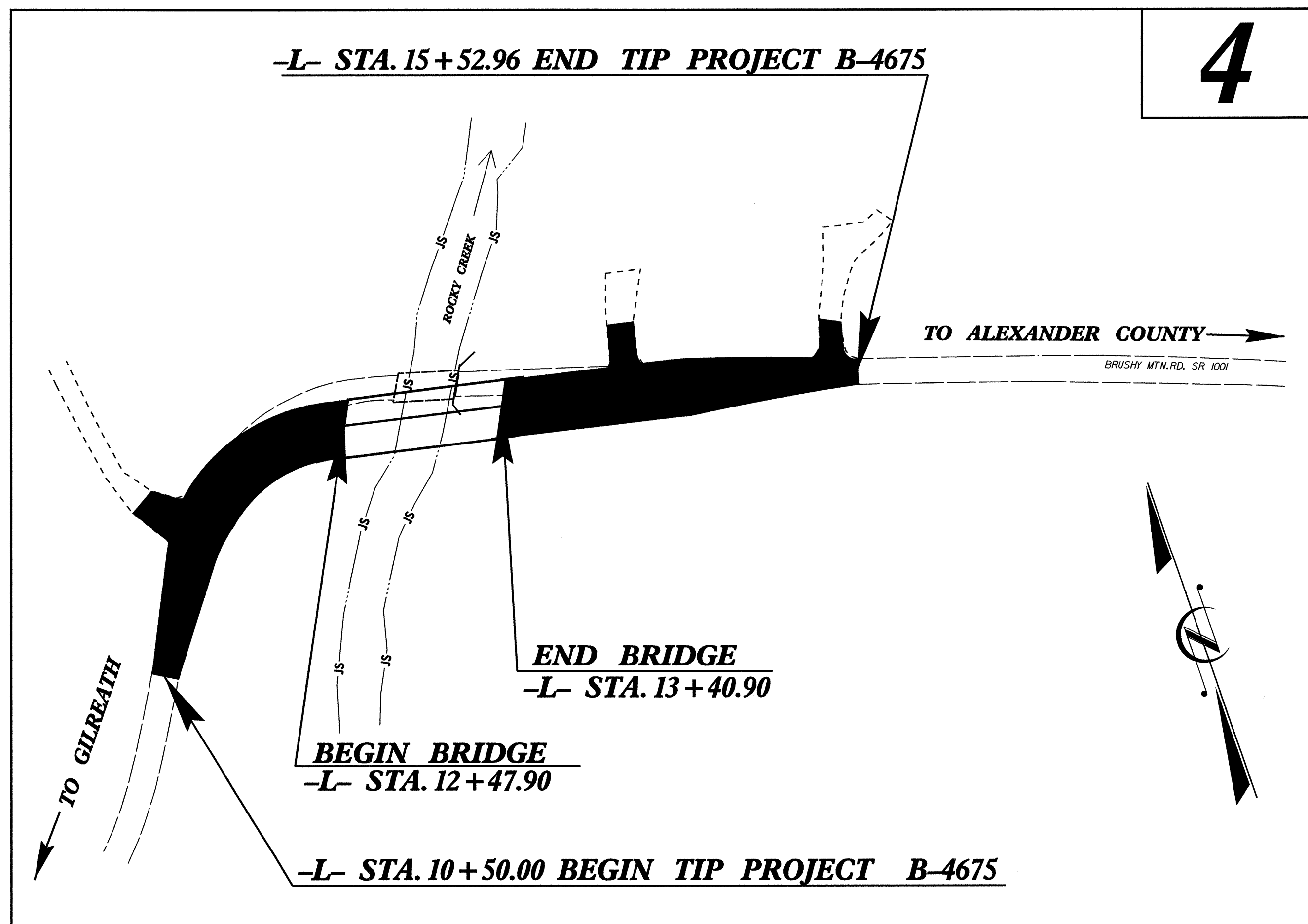
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WILKES COUNTY

**LOCATION: BRIDGE NO. 34 OVER ROCKY CREEK AND APPROACHES
ON SR 1001 (BRUSHY MOUNTAIN RD)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE



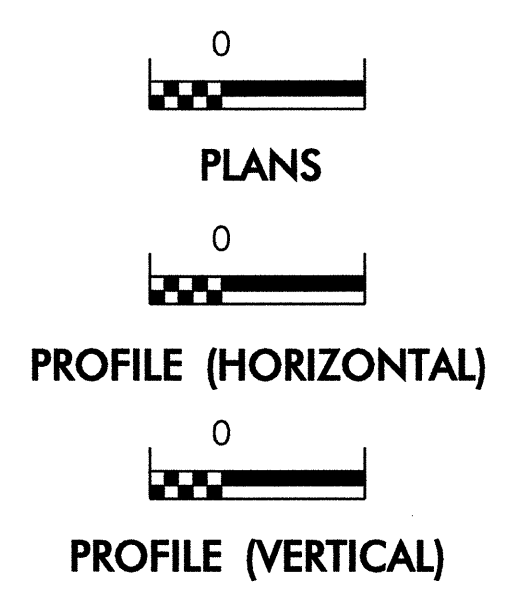
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4675	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation.....	
1630.03	Temporary Silt Ditch.....	
1650.05	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.....	
1655.01	Temporary Rock Silt Check Type-A.....	
	Temporary Rock Silt Check Type-B.....	
1654.01	Temporary Rock Sediment Dam Type-A.....	
1634.02	Temporary Rock Sediment Dam Type-B.....	
1655.01	Rock Pipe Inlet Sediment Trap Type-A.....	
1635.02	Rock Pipe Inlet Sediment Trap Type-B.....	
1630.04	Stilling Basin.....	
	Rock Inlet Sediment Trap:	
1652.01	Type A.....	
1632.02	Type B.....	
1632.03	Type C.....	
	Skimmer Basin.....	
	Tiered Skimmer Basin.....	
	Infiltration Basin.....	

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

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
2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

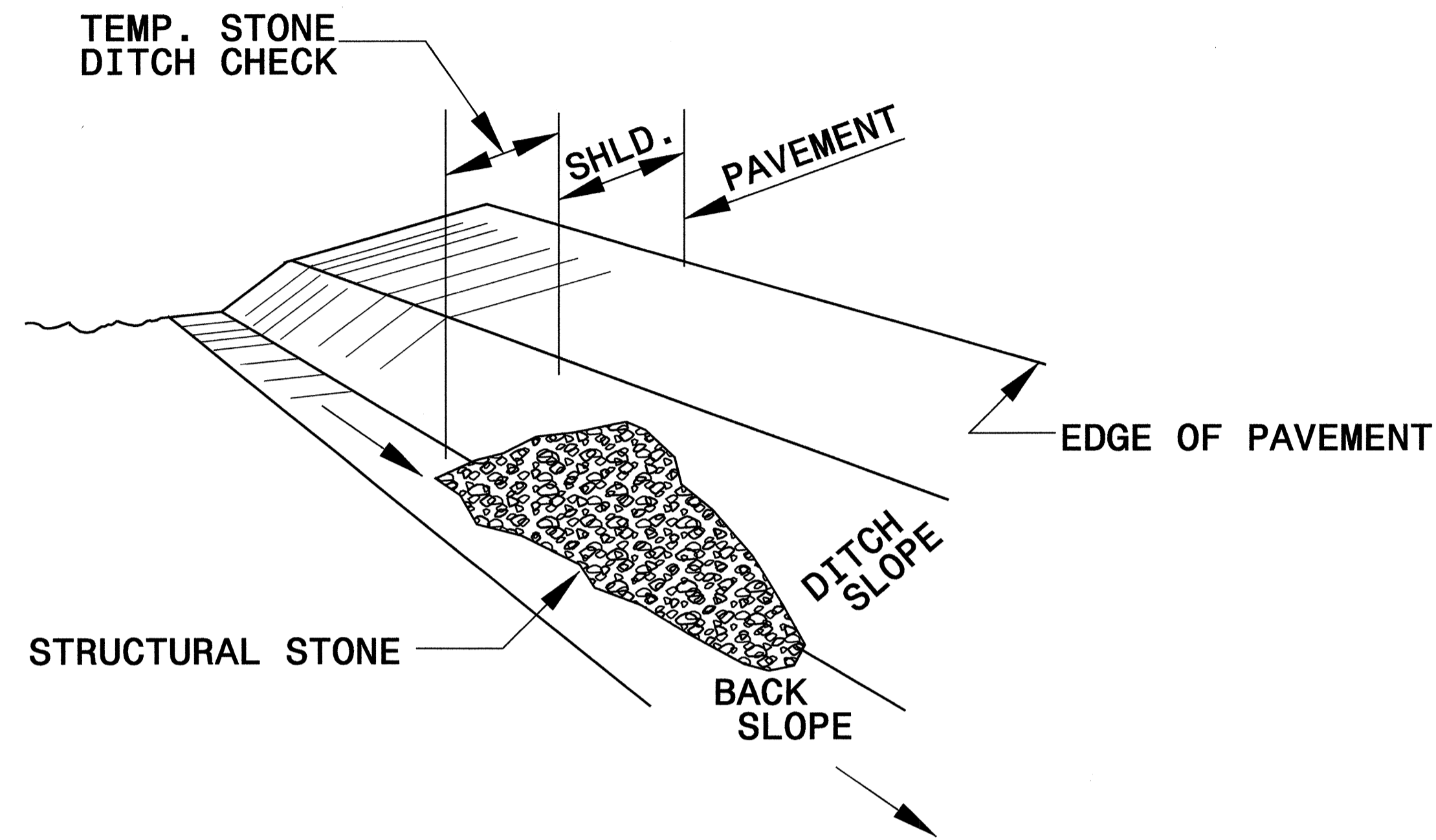
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1606.01 Special Sediment Control Fence	1633.01 Temporary Rock Silt Check Type A
1607.01 Gravel Construction Entrance	1634.02 Temporary Rock Sediment Dam Type B
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B

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PROJECT REFERENCE NO. B-4675	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

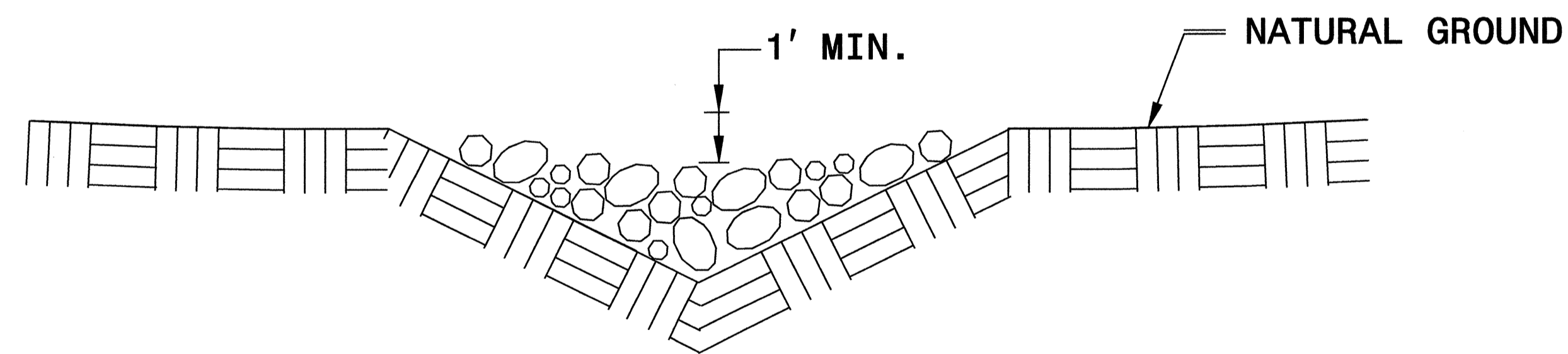


ISOMETRIC VIEW

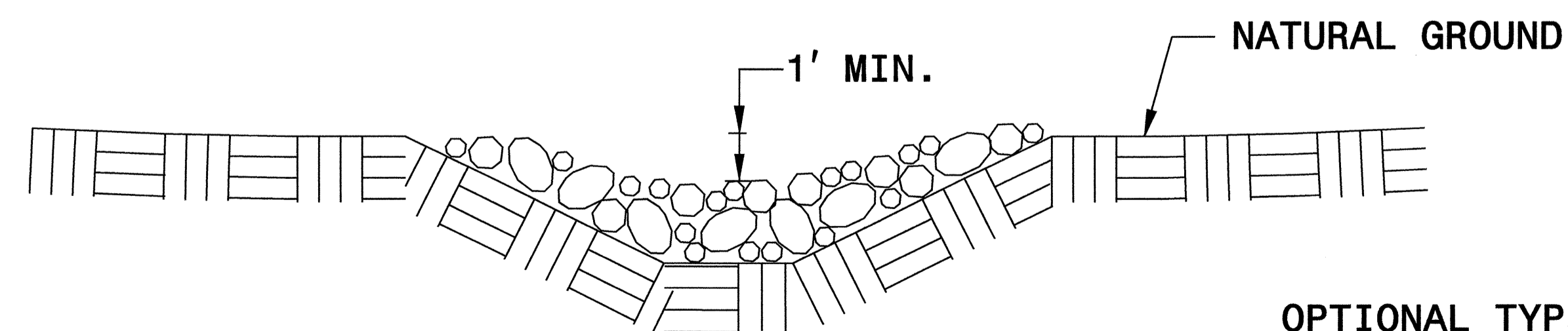
NOTES:

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

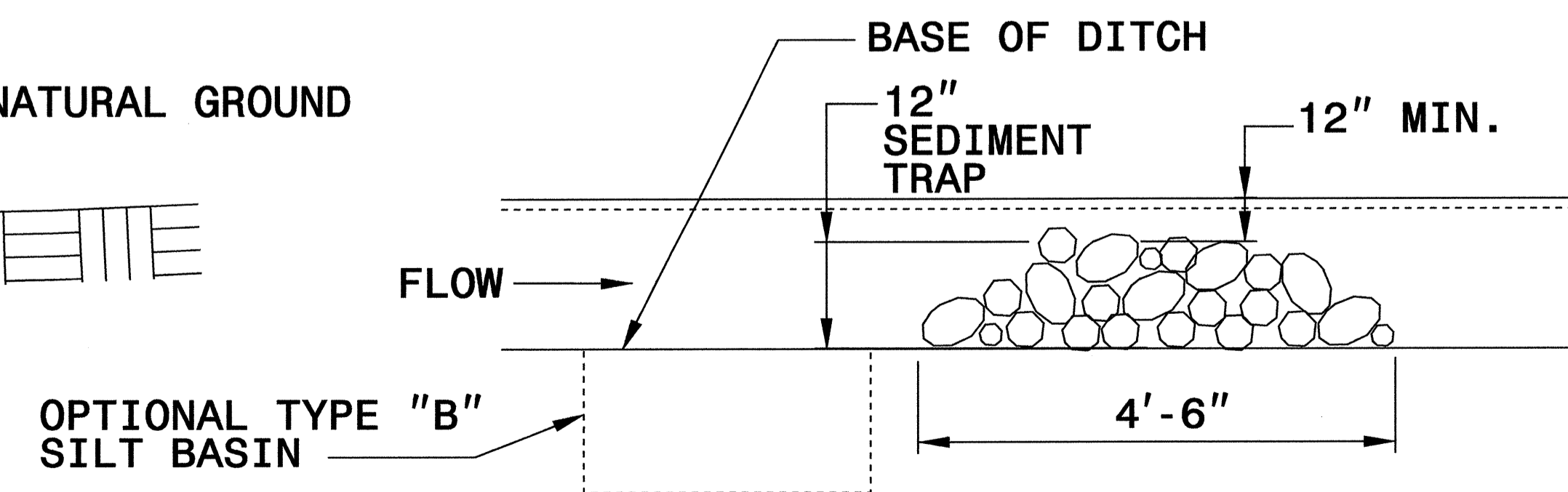
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



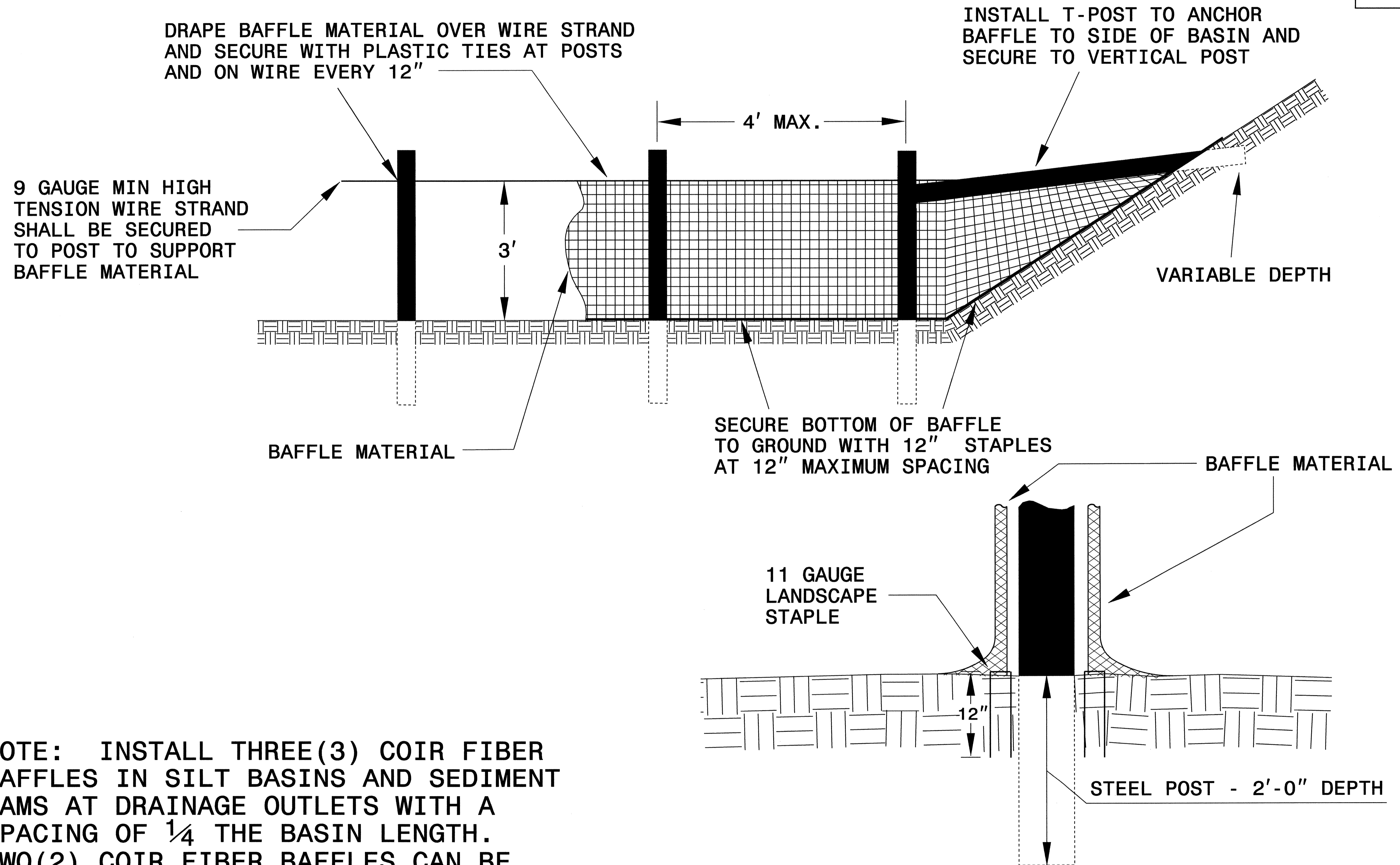
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. B-4675	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

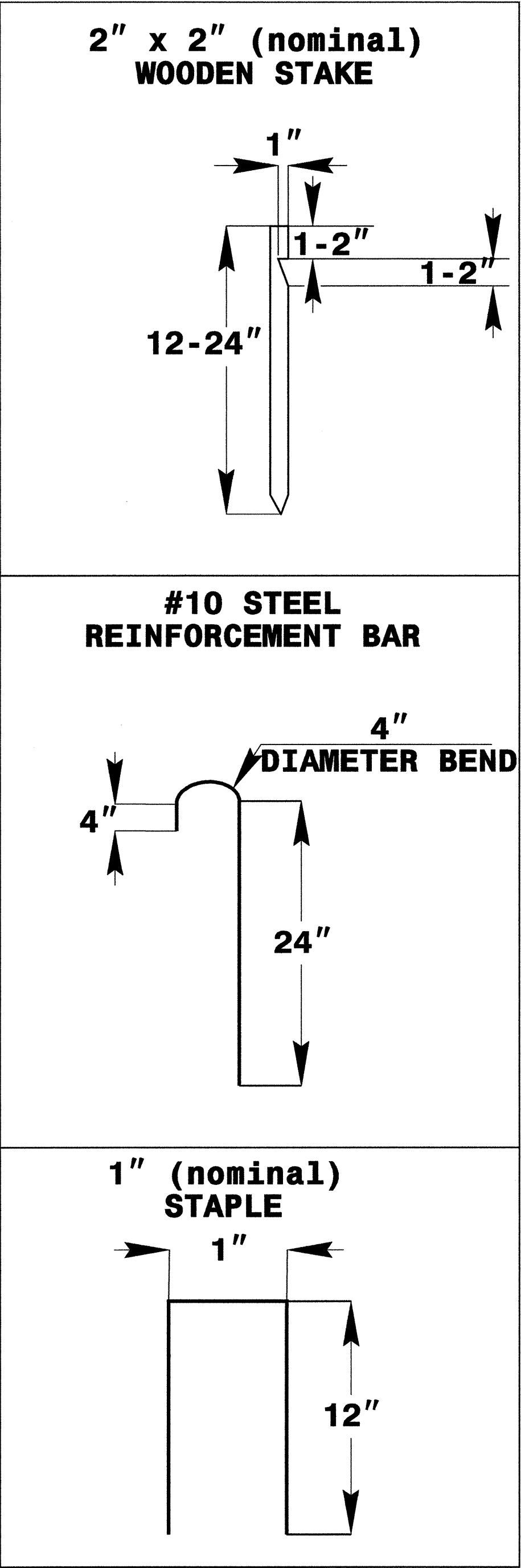
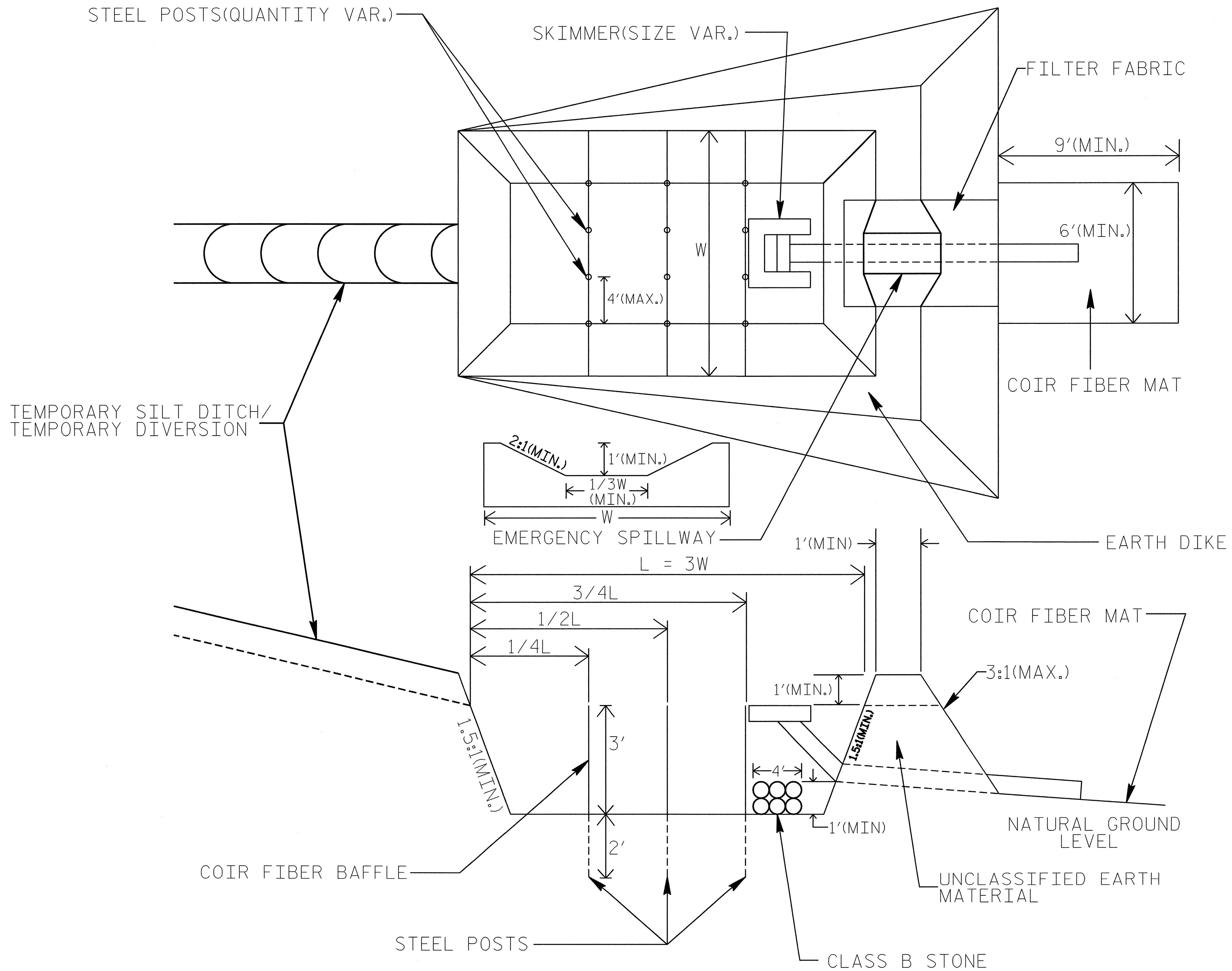


NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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-4675	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

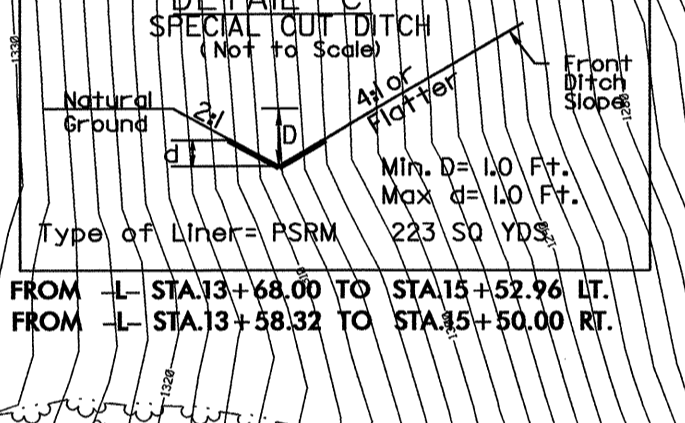
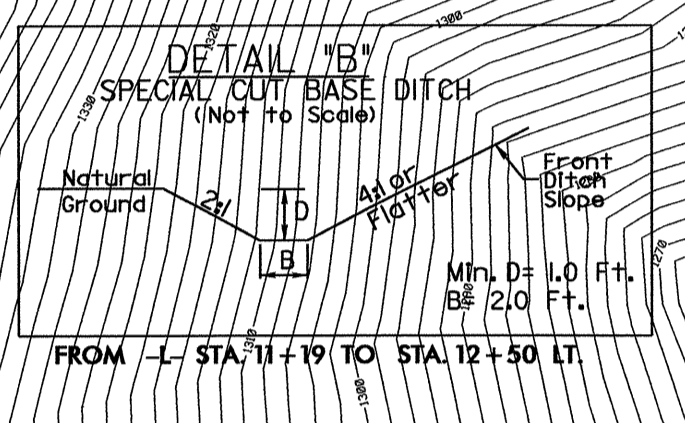
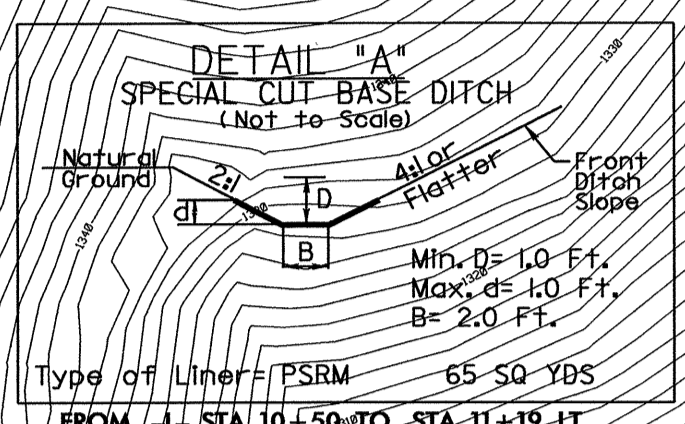
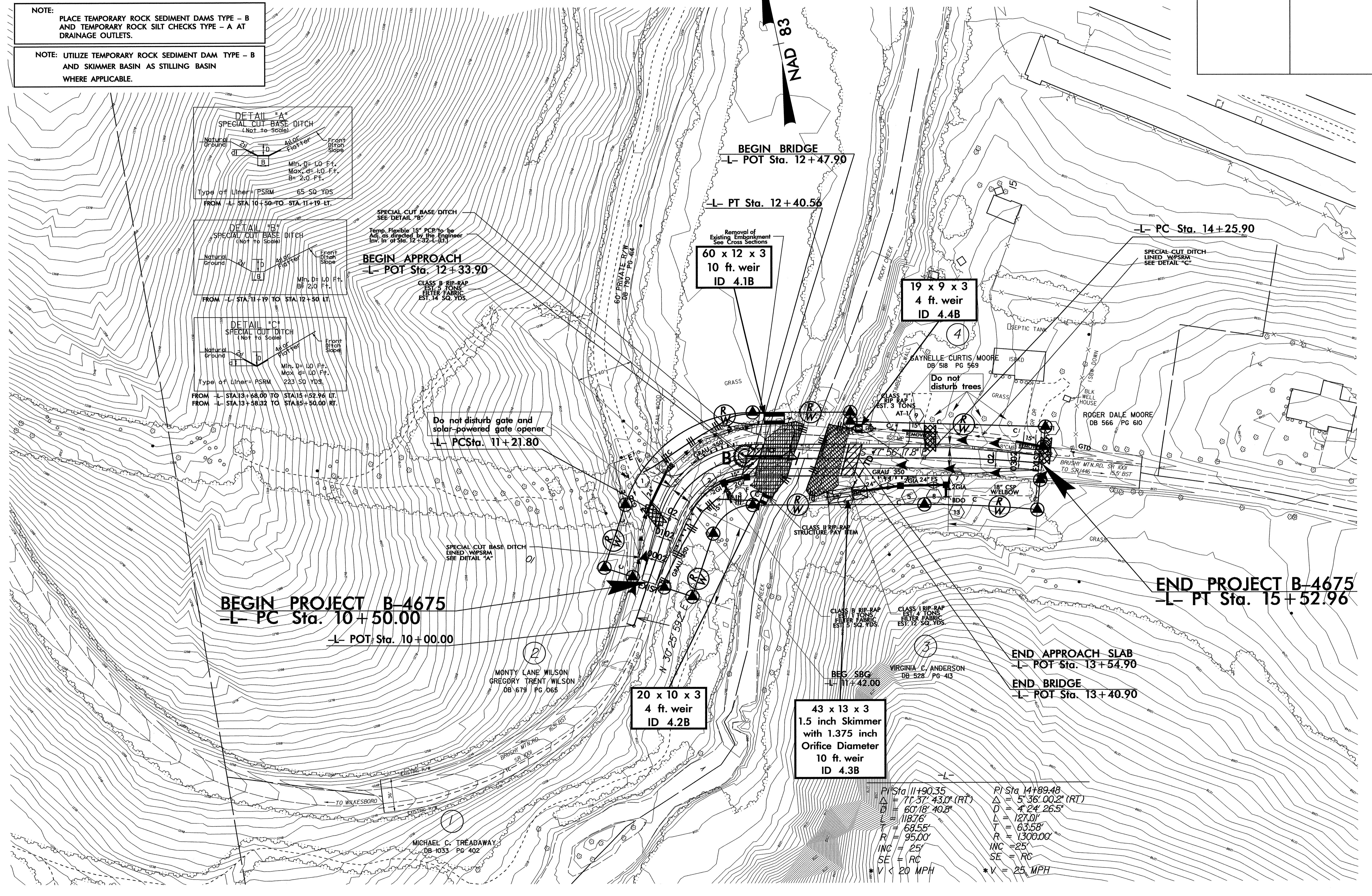
- NOTES:**
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
 2. LIMIT EARTH DIKE HEIGHT TO 5 FT.

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 TEMPORARY ROCK SEDIMENT DAM TYPE - B
AND SKIMMER BASIN AS STILLING BASIN
WHERE APPLICABLE.

PROJECT REFERENCE NO. B-4675	SHEET NO. <i>EC-4/CONST.4</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



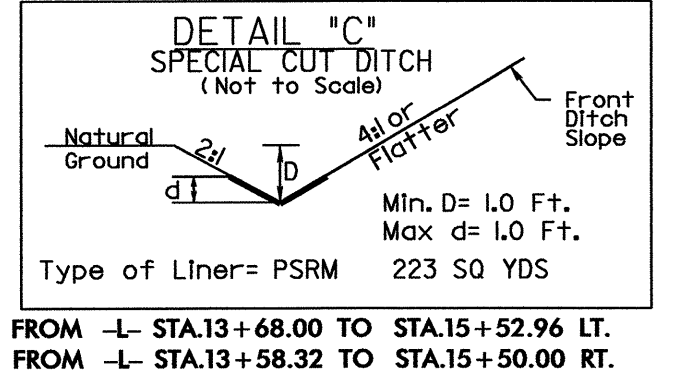
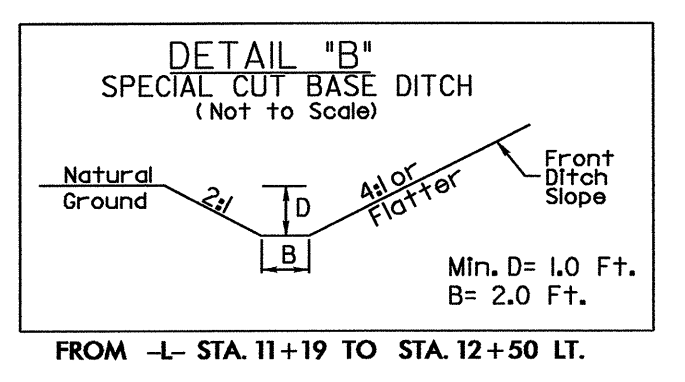
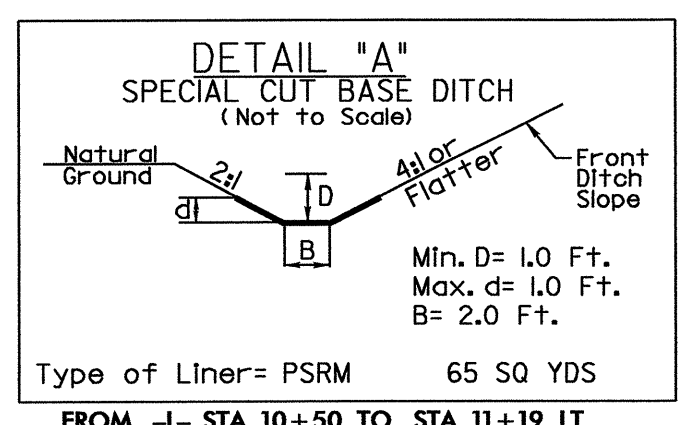
Pi Sta 11+90.35
Δ = 71°37'43.0" (RT)
D = 60'18" 40.8"
L = 118.76'
T = 68.55'
R = 95.00'
INC = 25°
SE = RC
*V < 20 MPH

Pi Sta 14+89.48
Δ = 5°36'00.2" (RT)
D = 4'24" 26.5"
L = 127.01'
T = 63.58'
R = 1300.00'
INC = 25°
SE = RC
*V = 25 MPH

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PROJECT REFERENCE NO. B-4675	SHEET NO. <i>EC-5/CONST.A</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



BEGIN APPROACH
-L- POT Sta. 12+33.90

SPECIAL CUT BASE DITCH SEE DETAIL "B"

Temp. Flexible 15" PCP to be Adj. as directed by the Engineer Inv. In at Sta. 12+32-L-(L)

Do not disturb gate and solar-powered gate opener
-L- PCSta. 11+21.80

60 x 12 x 3
10 ft. weir
ID 4.1B

19 x 9 x 3
4 ft. weir
ID 4.4B

-L- PC Sta. 14+25.90

SPECIAL CUT DITCH LINED WPSRM SEE DETAIL "C"

BEGIN PROJECT B-4675
-L- PC Sta. 10+50.00
-L- POT Sta. 10+00.00

MONTY LANE WILSON
GREGORY TRENT WILSON
DB 679 PG 065

20 x 10 x 3
4 ft. weir
ID 4.2B

43 x 13 x 3
1.5 inch Skimmer
with 1.375 inch Orifice Diameter
10 ft. weir
ID 4.3B

END APPROACH SLAB
-L- POT Sta. 13+54.90

END BRIDGE
-L- POT Sta. 13+40.90

END PROJECT B-4675
-L- PT Sta. 15+52.96

PI Sta 11+90.35
Δ = 71° 37' 43.0" (RT)
D = 60' 18" 40.8"
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SE = RC
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