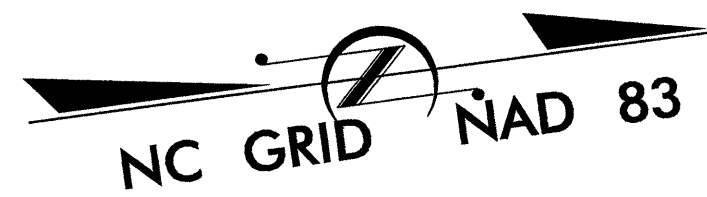
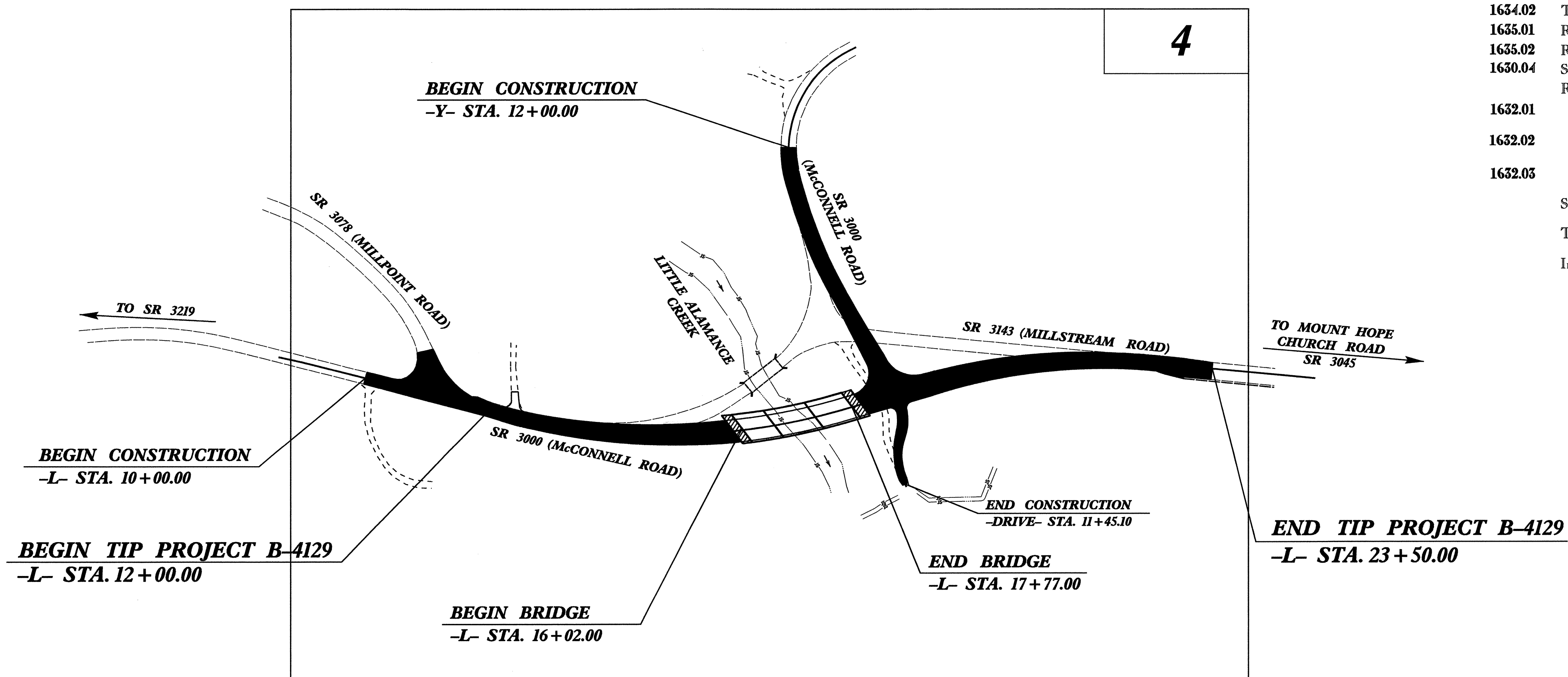


TIP PROJECT: B-4129

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



LOCATION: BRIDGE NO. 226 OVER LITTLE ALAMANCE CREEK ON SR 3000
TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4129	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Sed. #	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.....	
1630.01	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.....	
	Tiered Skimmer Basin.....	
	Infiltration Basin.....	

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
2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

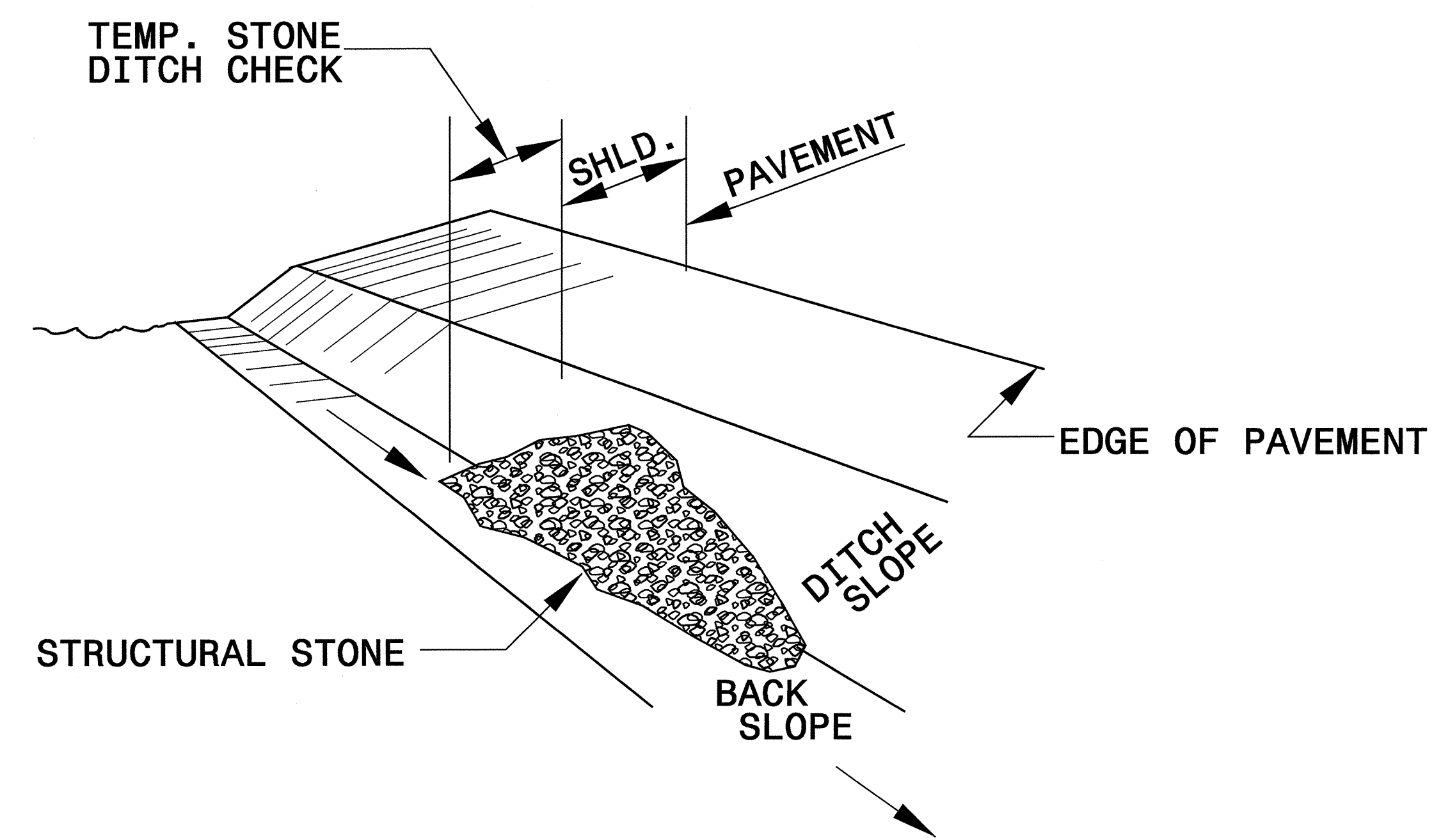
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1607.01 Gravel Construction Entrance	1632.02 Rock Inlet Sediment Trap Type B
1630.02 Silt Basin Type B	1632.03 Rock Inlet Sediment Trap Type C
1630.03 Temporary Silt Ditch	1633.01 Temporary Rock Silt Check Type A
1630.05 Temporary Diversion	1634.02 Temporary Rock Sediment Dam Type B
	1635.02 Rock Pipe Inlet Sediment Trap Type B

C:\p01\proj\2007_05\1630\roadside\design\4129.ec.tsh.dgn
 16/05/07 10:25:16 AM
 Jennifer Parham

PROJECT REFERENCE NO. <i>B-4129</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

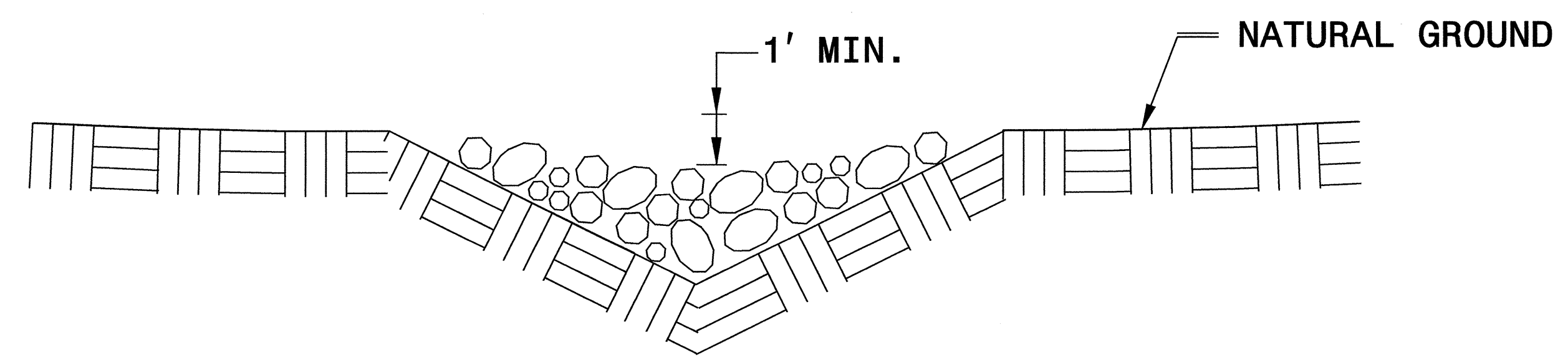


ISOMETRIC VIEW

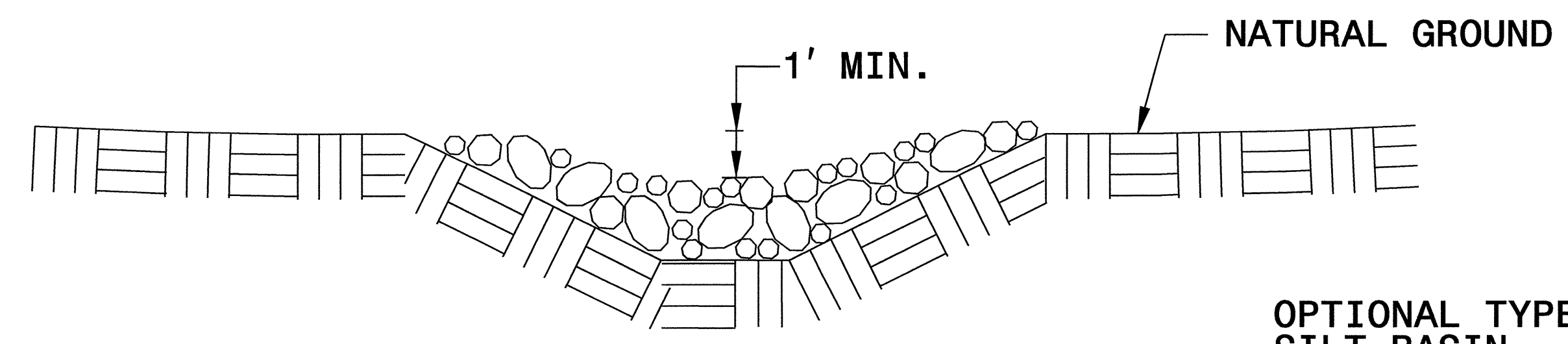
NOTES:

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

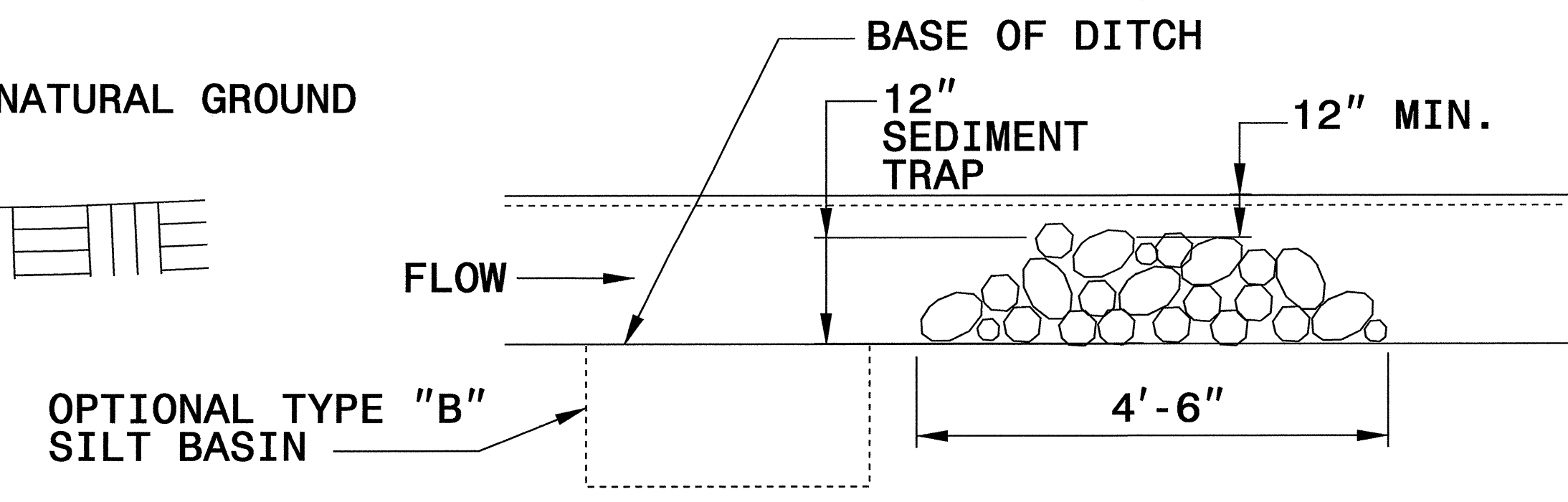
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



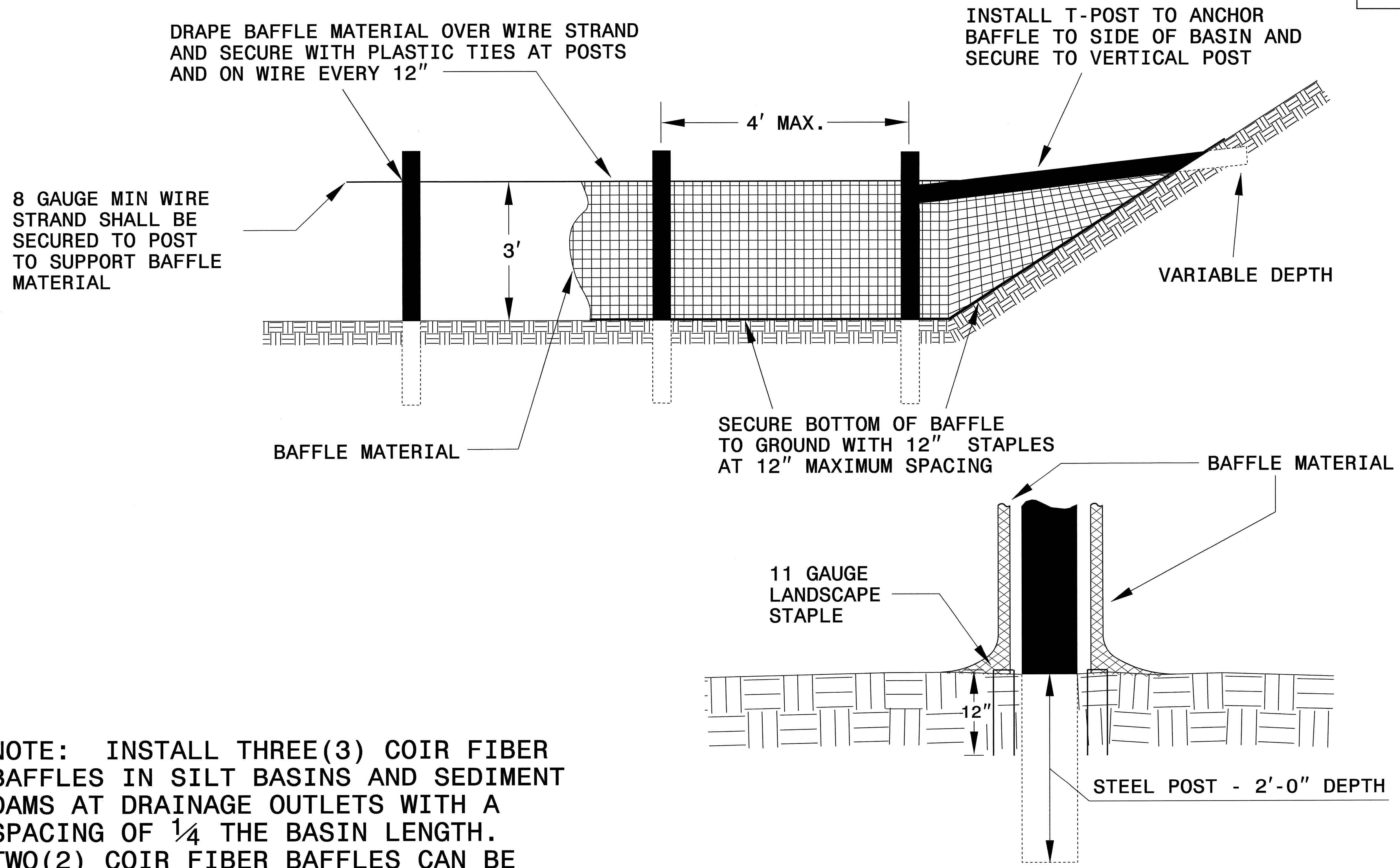
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. B-4129	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

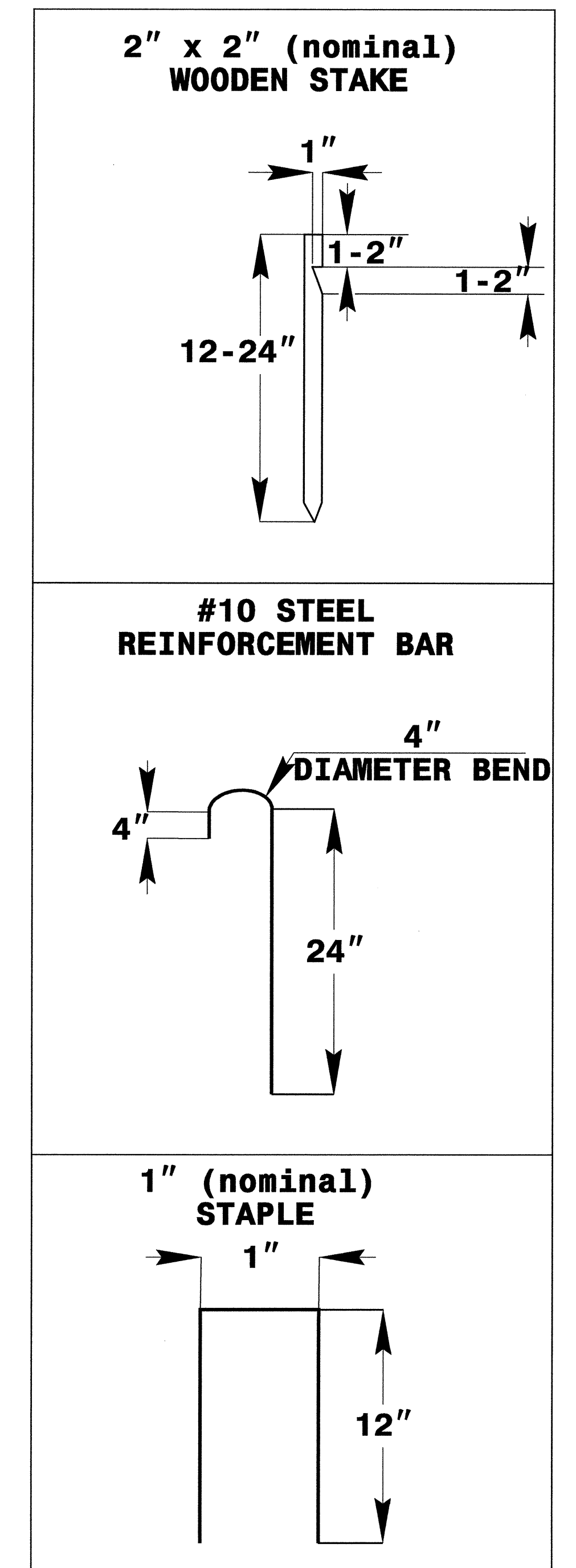
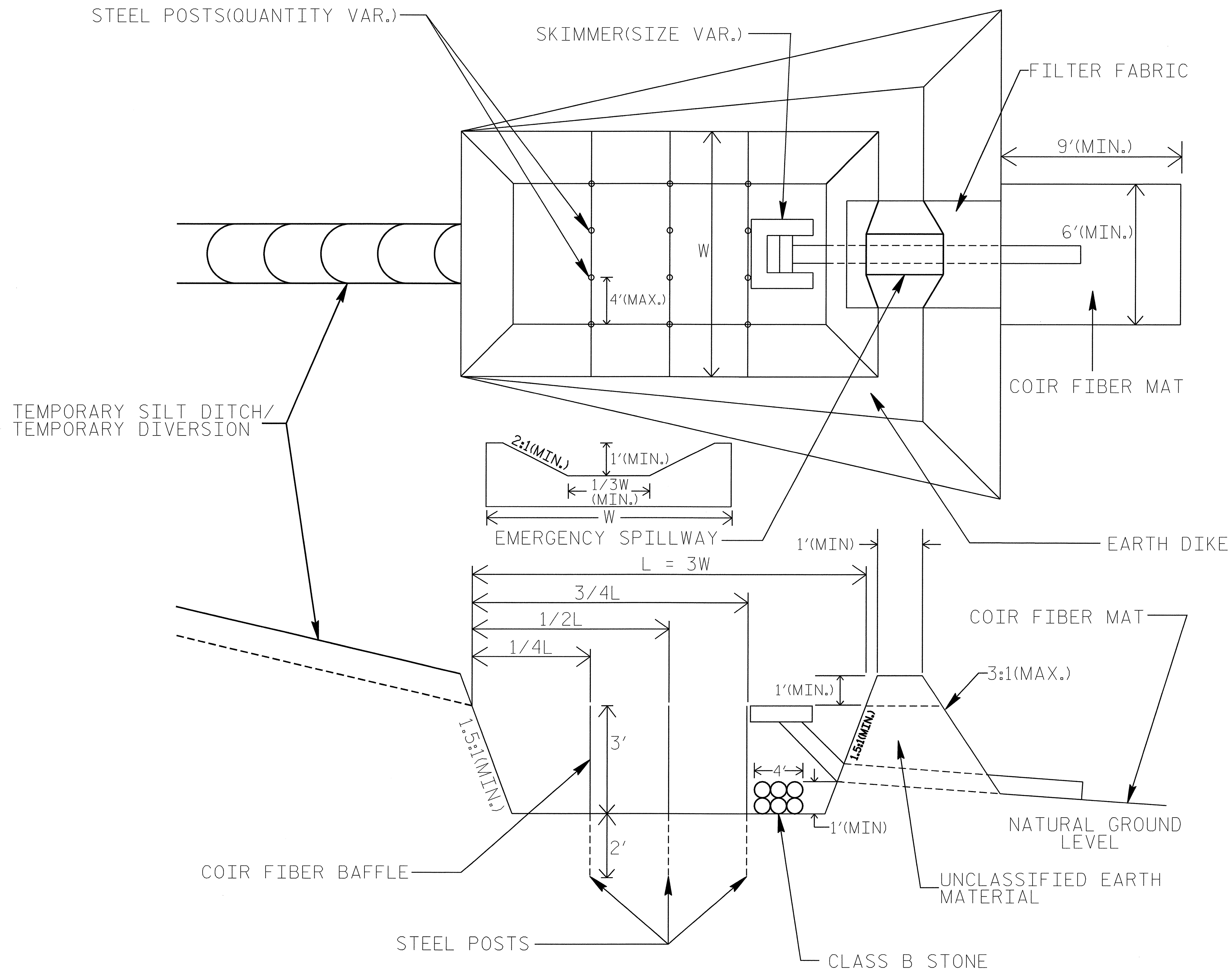


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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

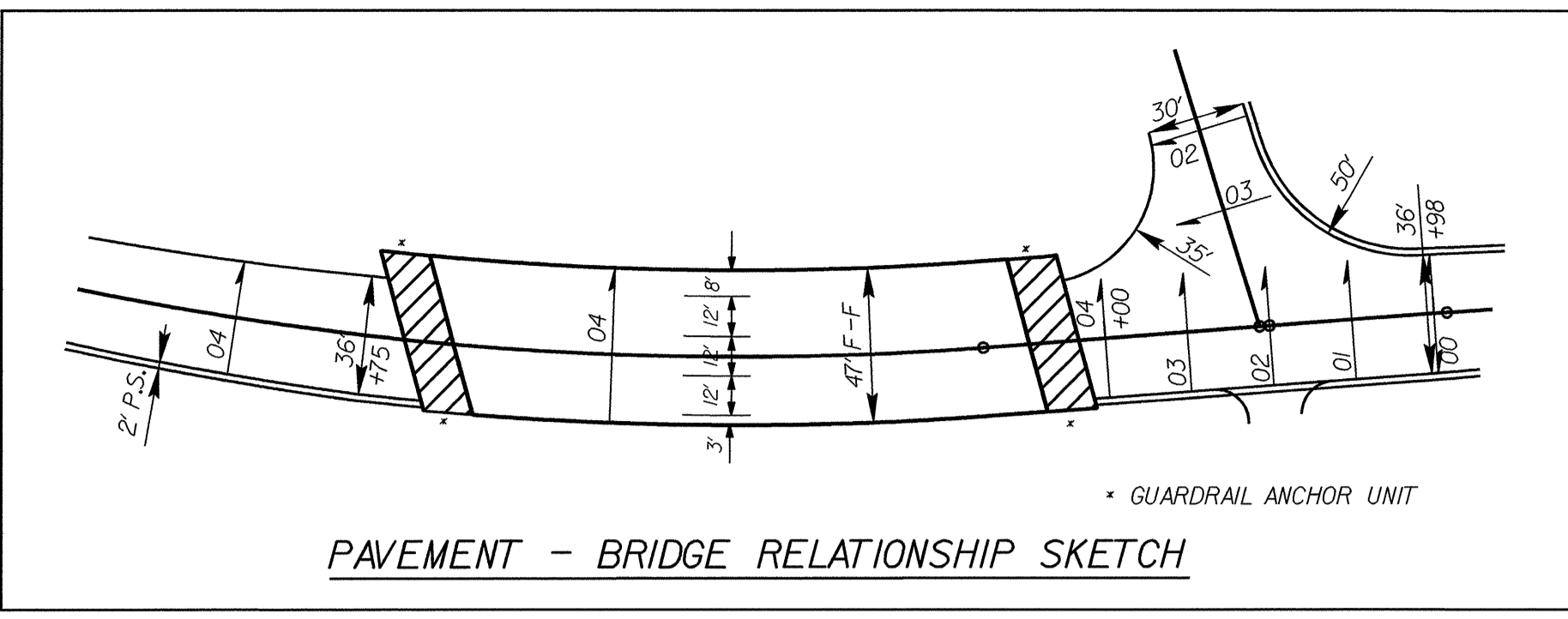
SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. B-4129	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.



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

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

BEGIN CONSTRUCTION
-Y- POC STA. 12+00.00
(S 20° 07' 00.2" E)

42 x 15 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
5 ft. weir
ID 4.1F

42 x 8 x 3
ID 4.9CG

42 x 12 x 3
ID 4.8CG

40 x 8 x 3
ID 4.11CG

30 x 8 x 3
ID 4.10CG

END PROJECT B-4129
-L- POT STA. 23+50.00

BEGIN PROJECT B-4129
-L- POT STA. 12+00.00

-BL-15- POT 5+00.00
-L- POC 9+06.30, (13.73' LT)

BEGIN CONSTRUCTION
-L- POT STA. 10+00.00
(MIN. OVERLAY)

BEGIN APPROACH SLAB
-L- STA. 15+87.00

BEGIN BRIDGE
-L- STA. 16+02.00

END APPROACH SLAB
-L- STA. 17+92.00

END BRIDGE
-L- STA. 17+77.00

-BL-16- PINC 9+09.15 =
-BY1- POT 11+09.04 =
-L- POC 13+13.11, (16.15' RT)

30 x 8 x 3
4 ft. weir
ID 4.2CG

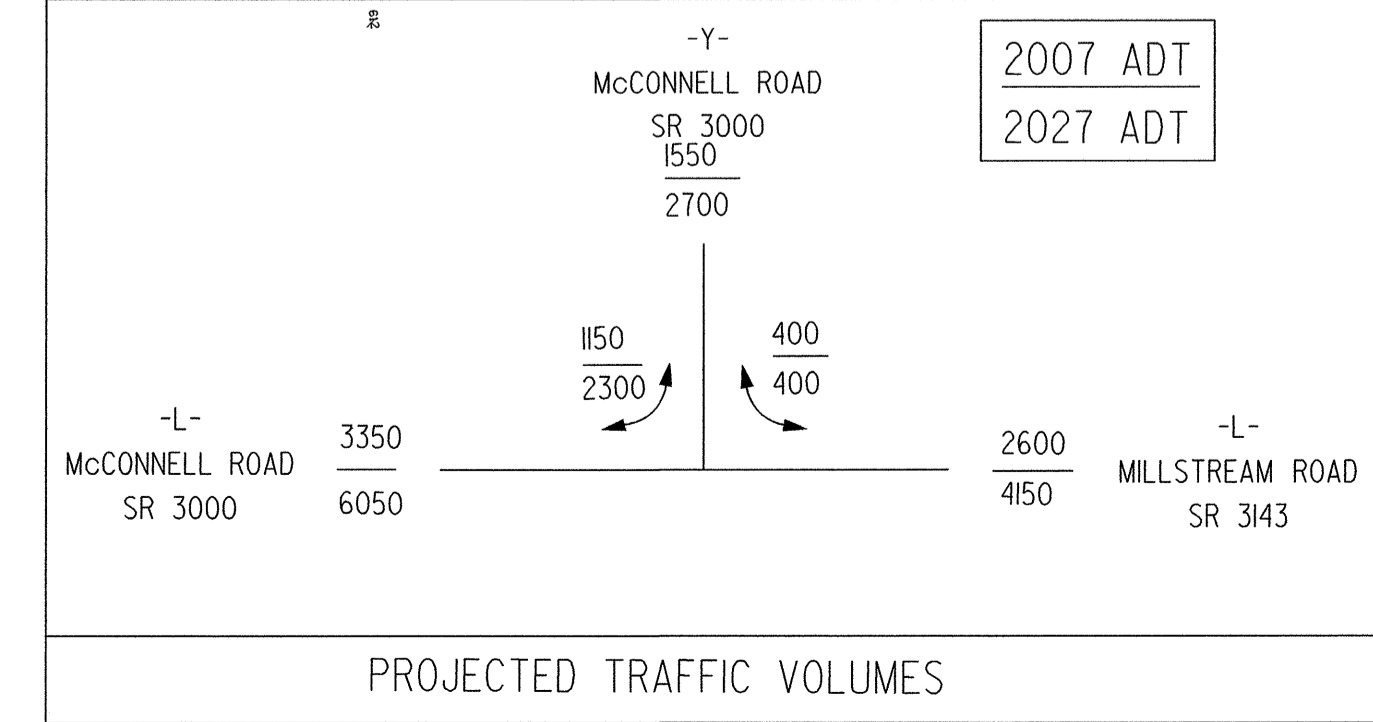
32 x 15 x 3
5 ft. weir
ID 4.5CG

45 x 8 x 3
ID 4.4CG

-L-
PI Sta 15+00.13
Δ = 30° 52' 58.6" (LT)
D = 5' 43' 46.5"
L = 539.01'
T = 276.22'
R = 1,000.00'
SE = 0.040
DS = 50 MPH

-L-
PI Sta 20+82.66
Δ = 2° 45' 17.0" (RT)
D = 6' 09' 39.0"
L = 353.11'
T = 178.71'
R = 930.00'
SE = 0.040
DS = 50 MPH

-DRIVE-
PI Sta 11+06.02
Δ = 36° 35' 45.9" (LT)
D = 57' 17' 44.8"
L = 63.87'
T = 33.07'
R = 100.00'



LEGEND

- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

FOR GRADING DETAIL, SEE SHEET NO. 2-C
FOR DITCH DETAILS, SEE SHEET NO. 2-C
FOR -L-, -Y- & DRIVE PROFILES, SEE SHEET NO. 5

09-NOV-2007 10:10 G:\toprojects\B-4129\environmental\design\B4129_ec_psh_04.dgn

