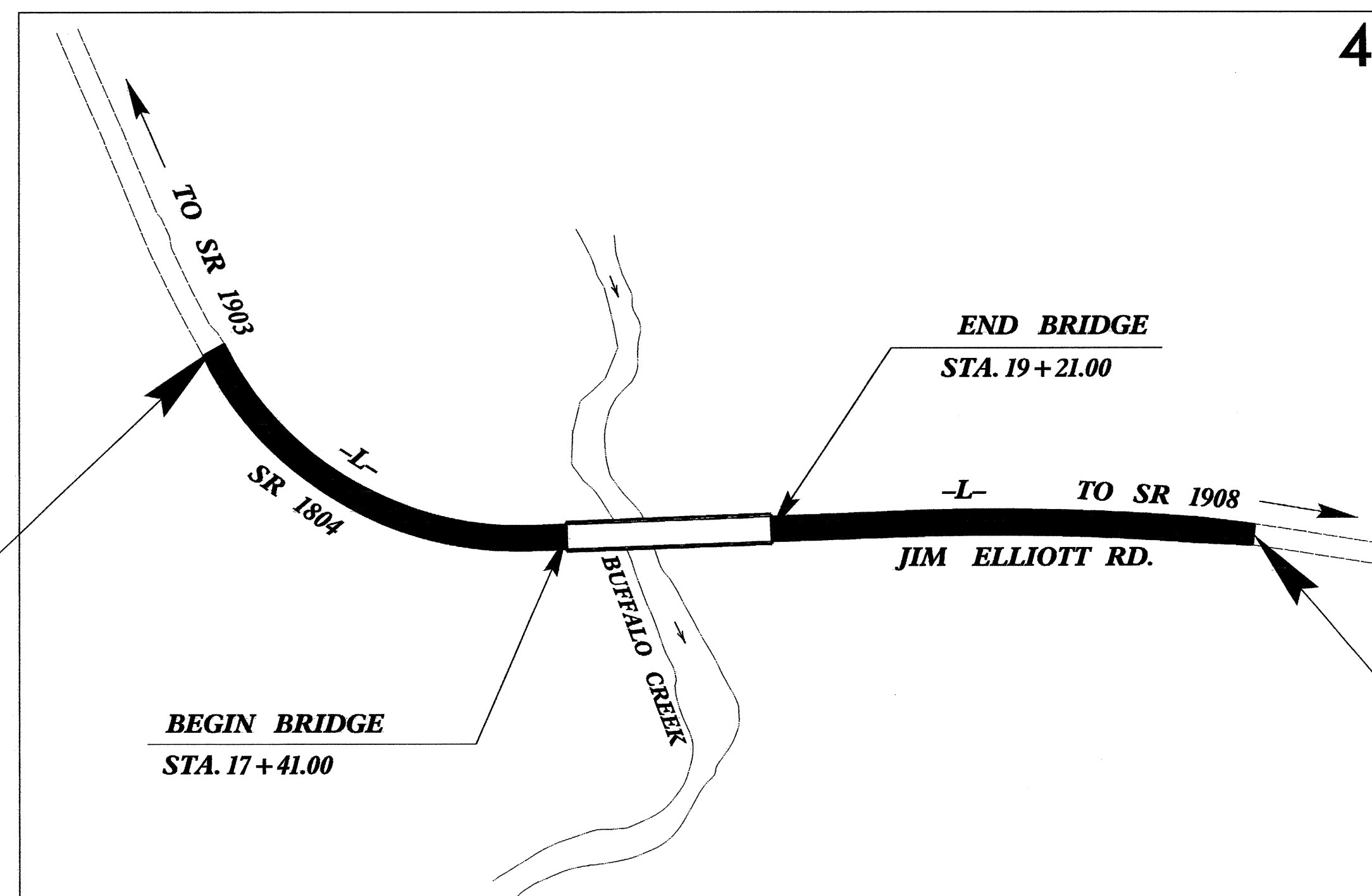
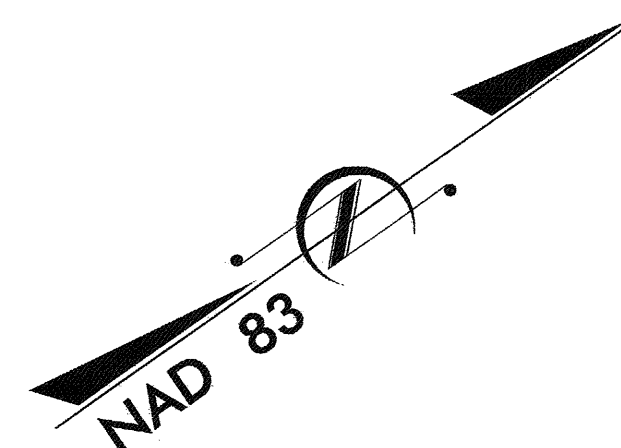


TIP PROJECT: B-4076

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

LOCATION: BRIDGE NO. 156 OVER BUFFALO CREEK
 ON SR 1804 (JIM ELLIOTT RD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE



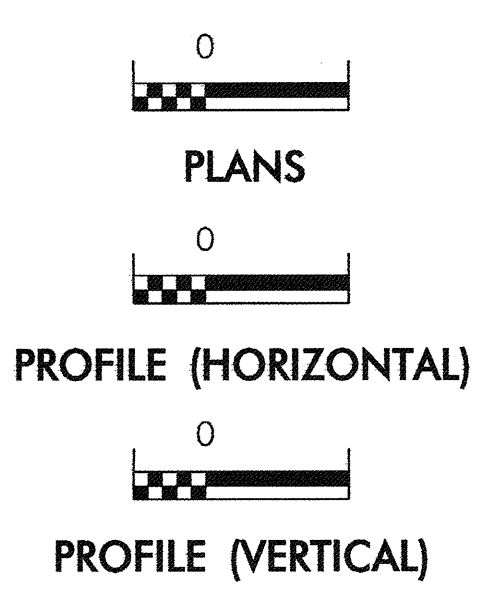
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4076	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Sta. #	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:	
	Type A	
1632.01	Type B	
1632.02	Type C	
1632.03	Skimmer Basin	
	Tiered Skimmer 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

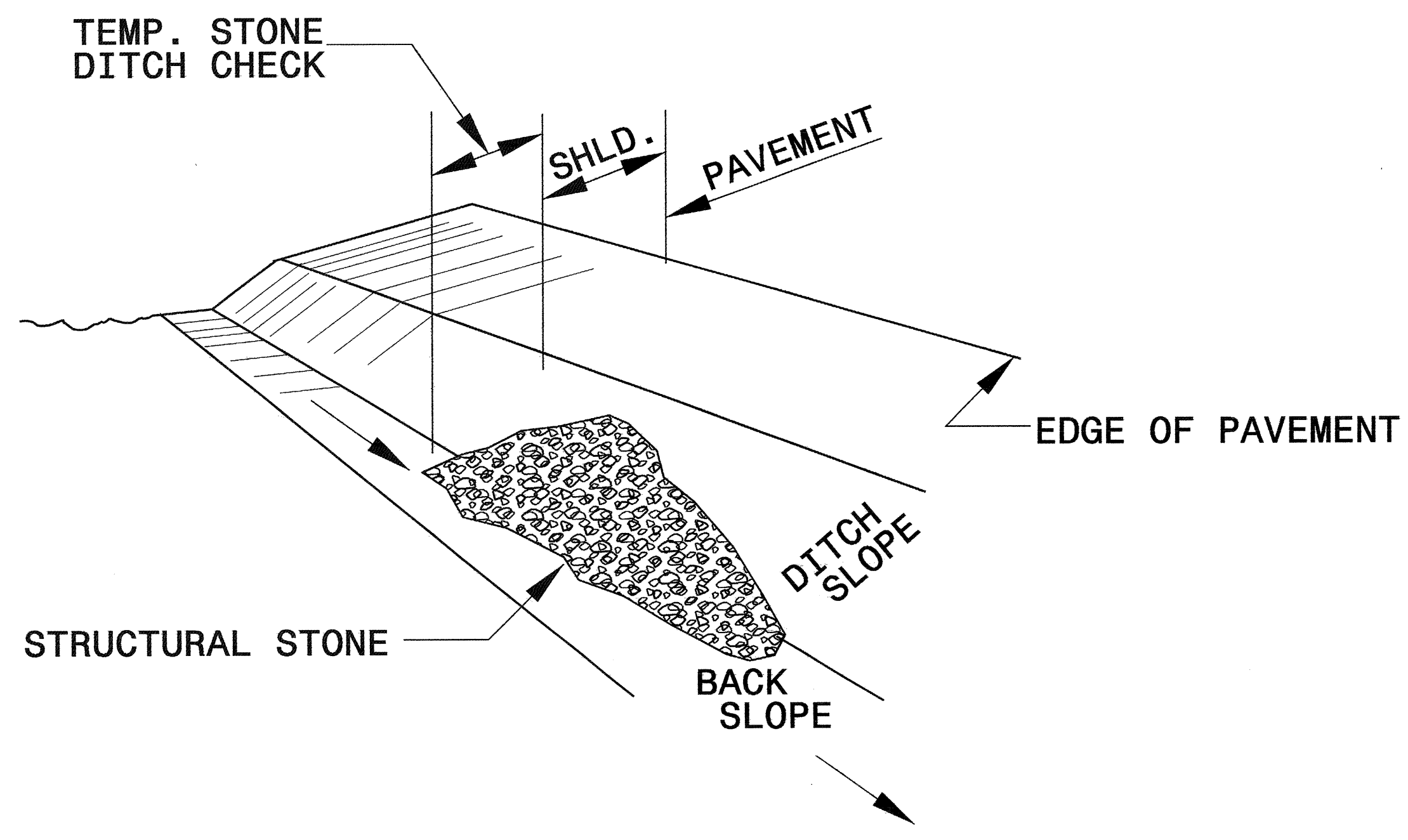
Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

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	1630.06 Special Stilling Basin
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
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	
1630.05 Temporary Diversion	

PROJECT REFERENCE NO. B-4076	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

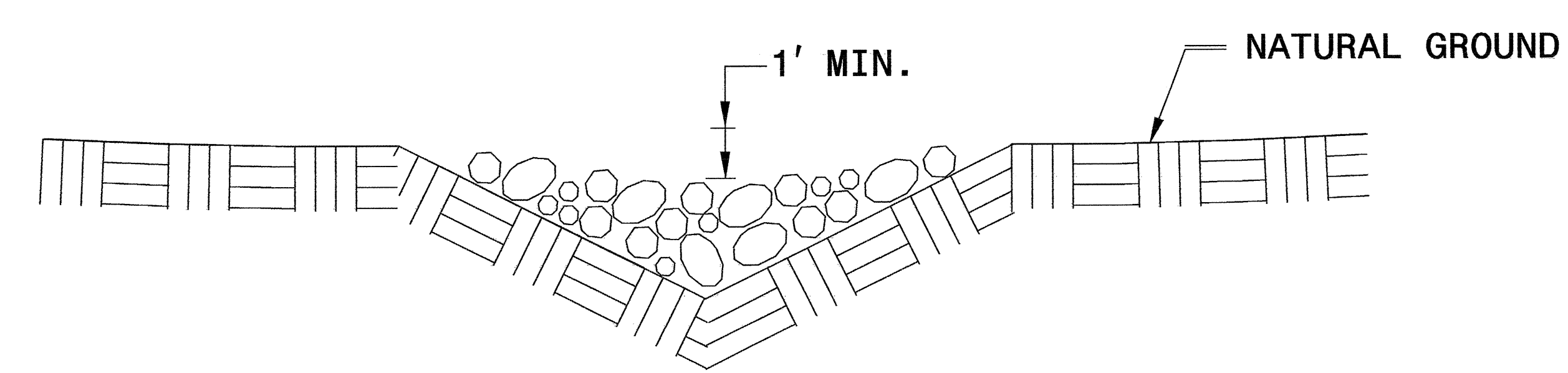


ISOMETRIC VIEW

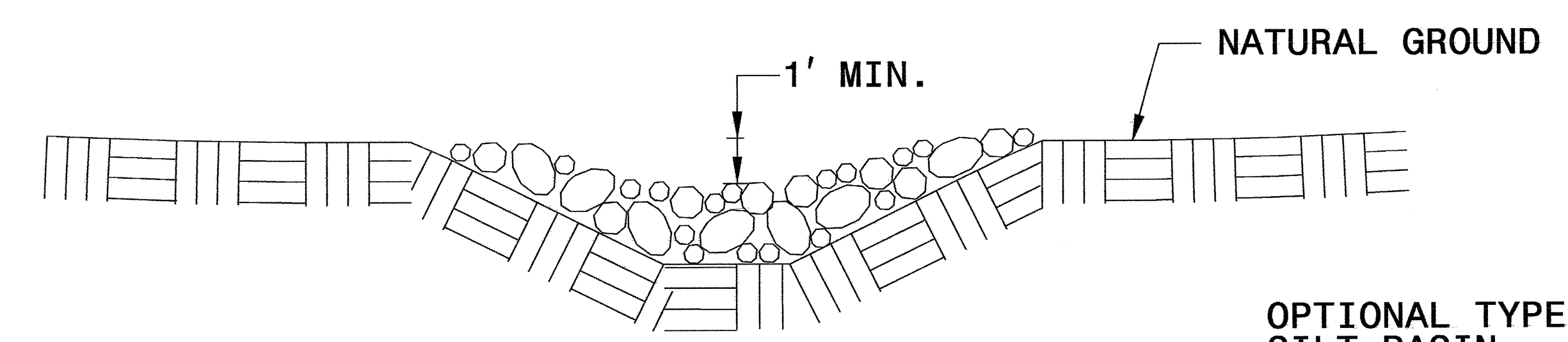
NOTES:

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

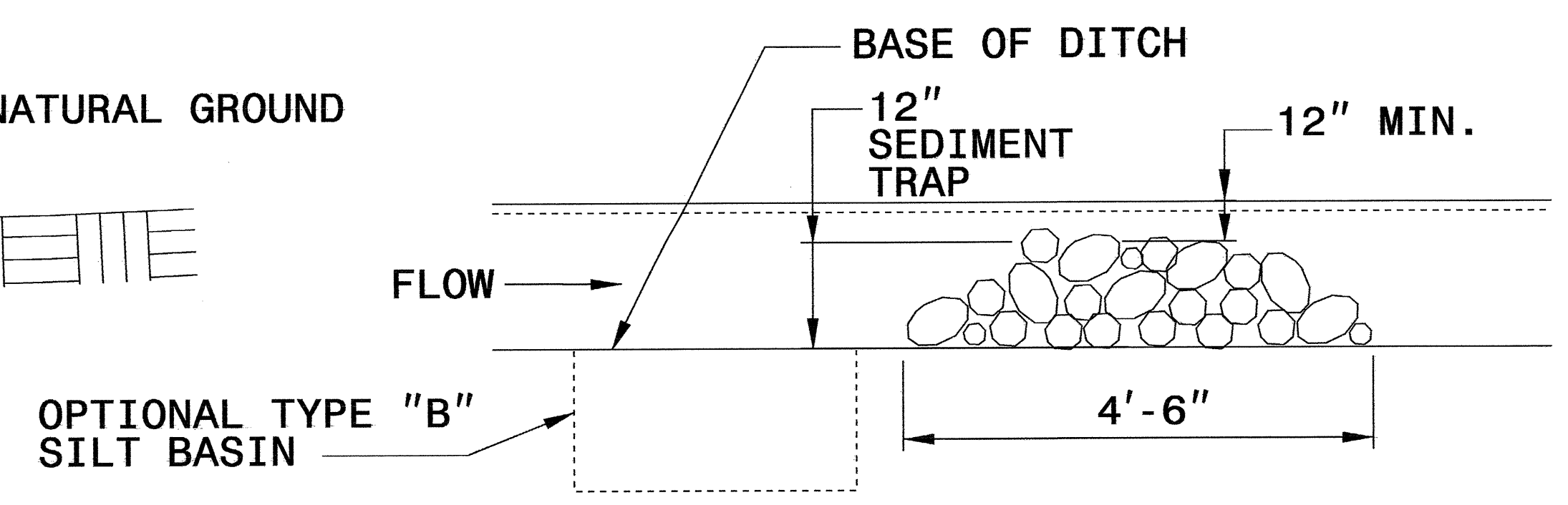
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



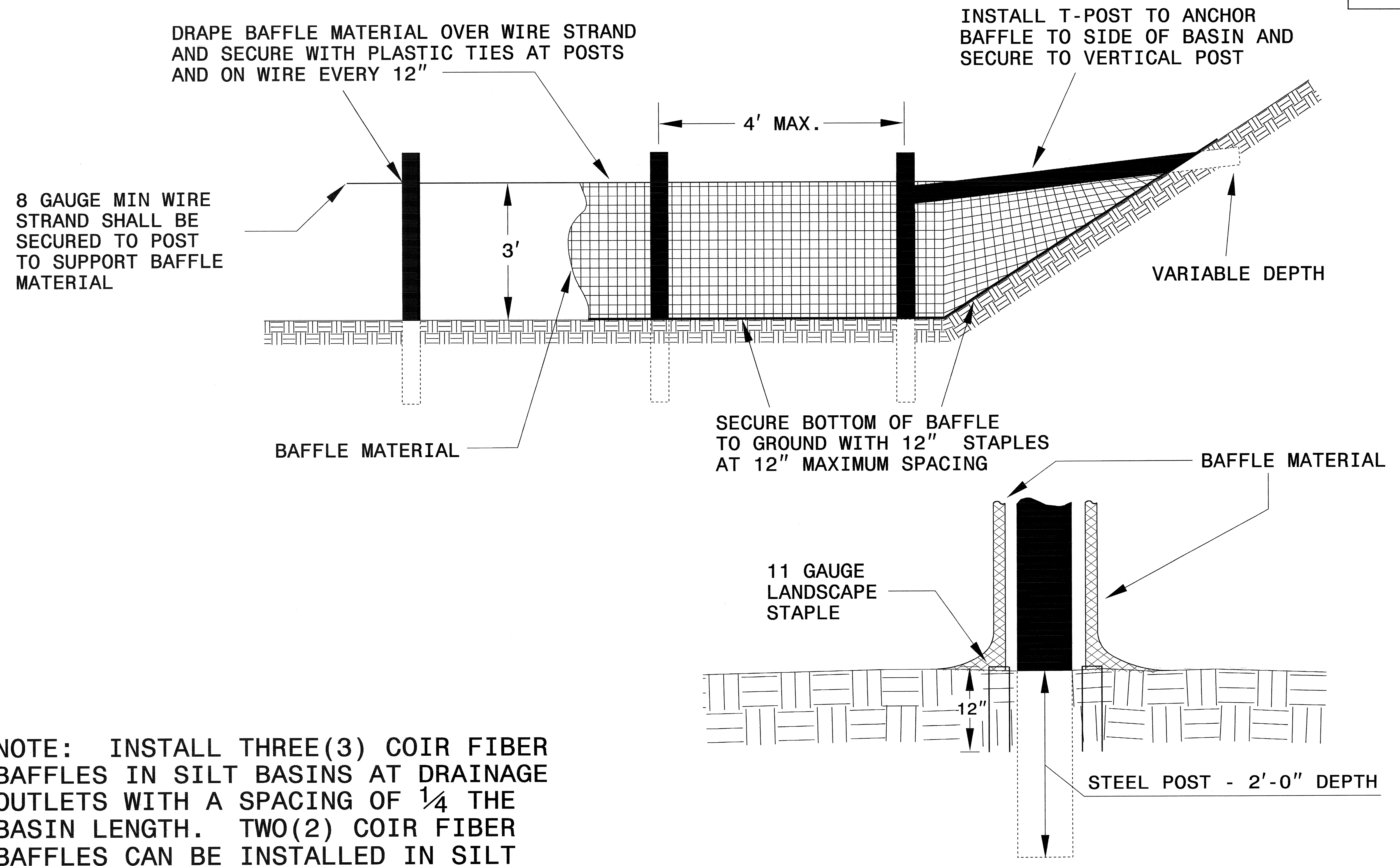
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. B-4076	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

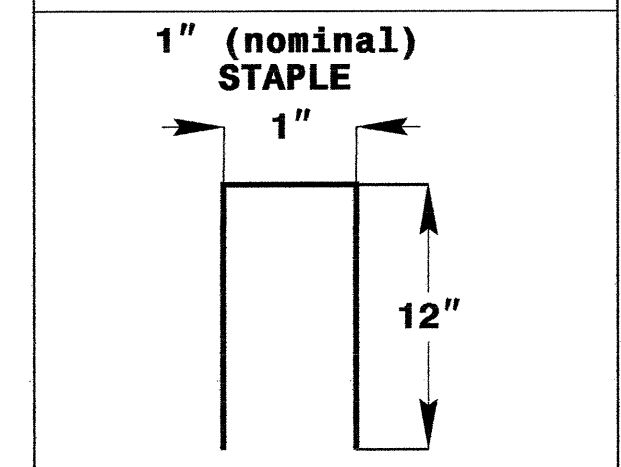
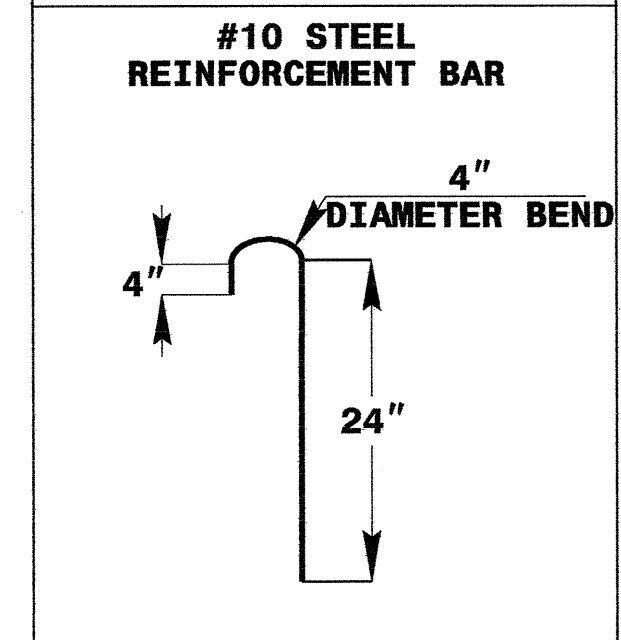
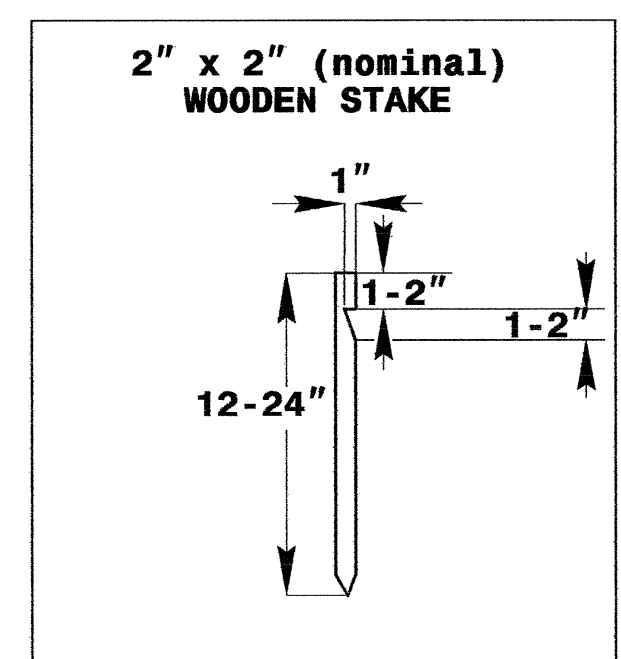
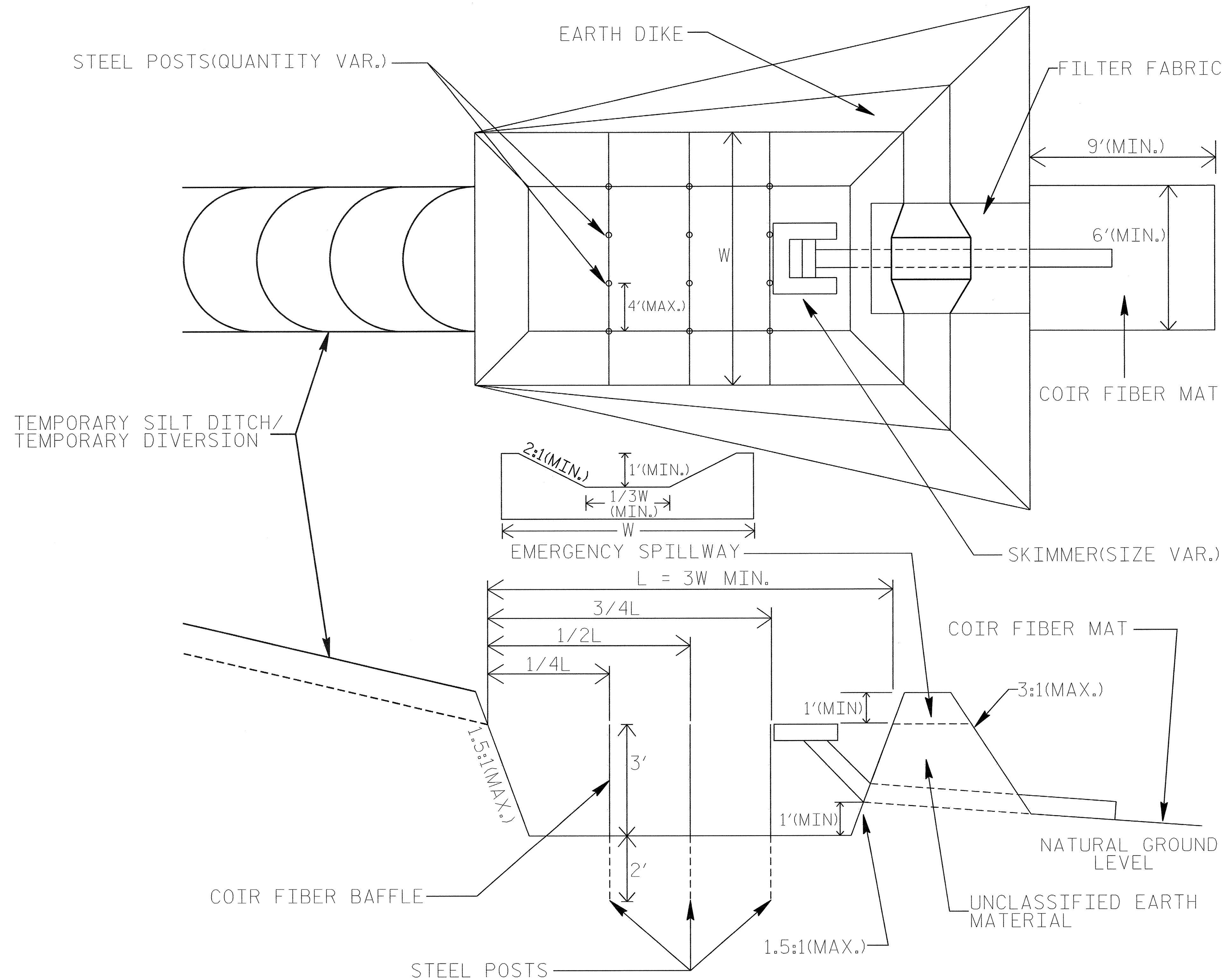


NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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

SKIMMER BASIN WITH BAFFLES DETAIL

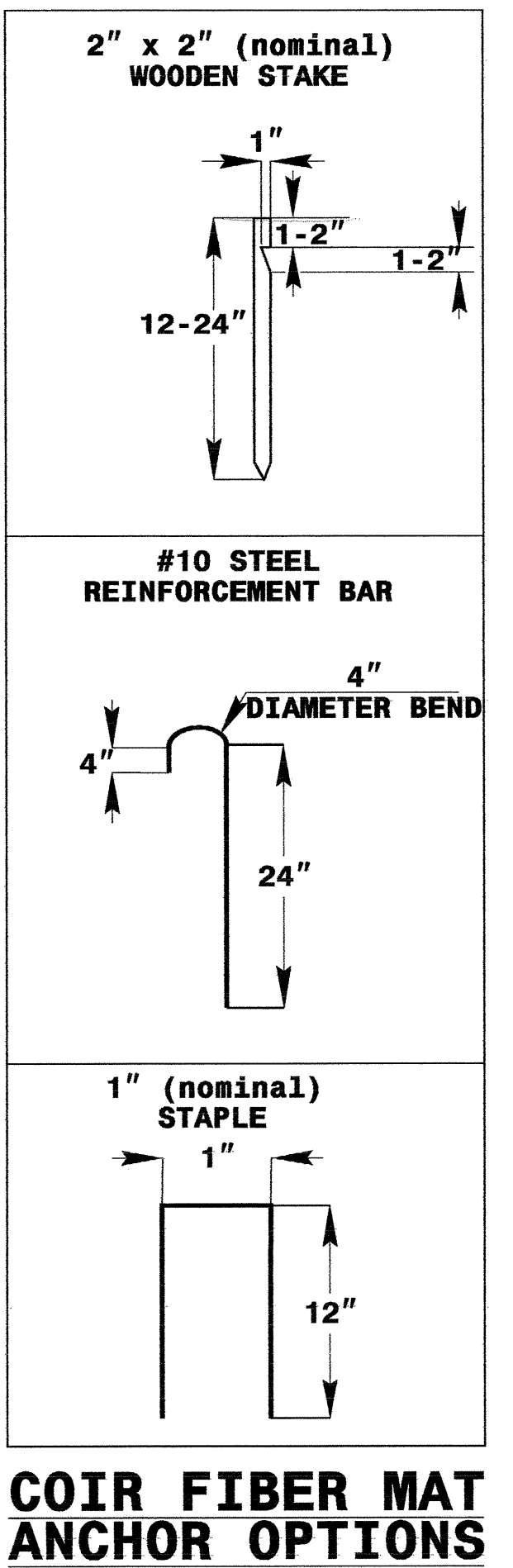
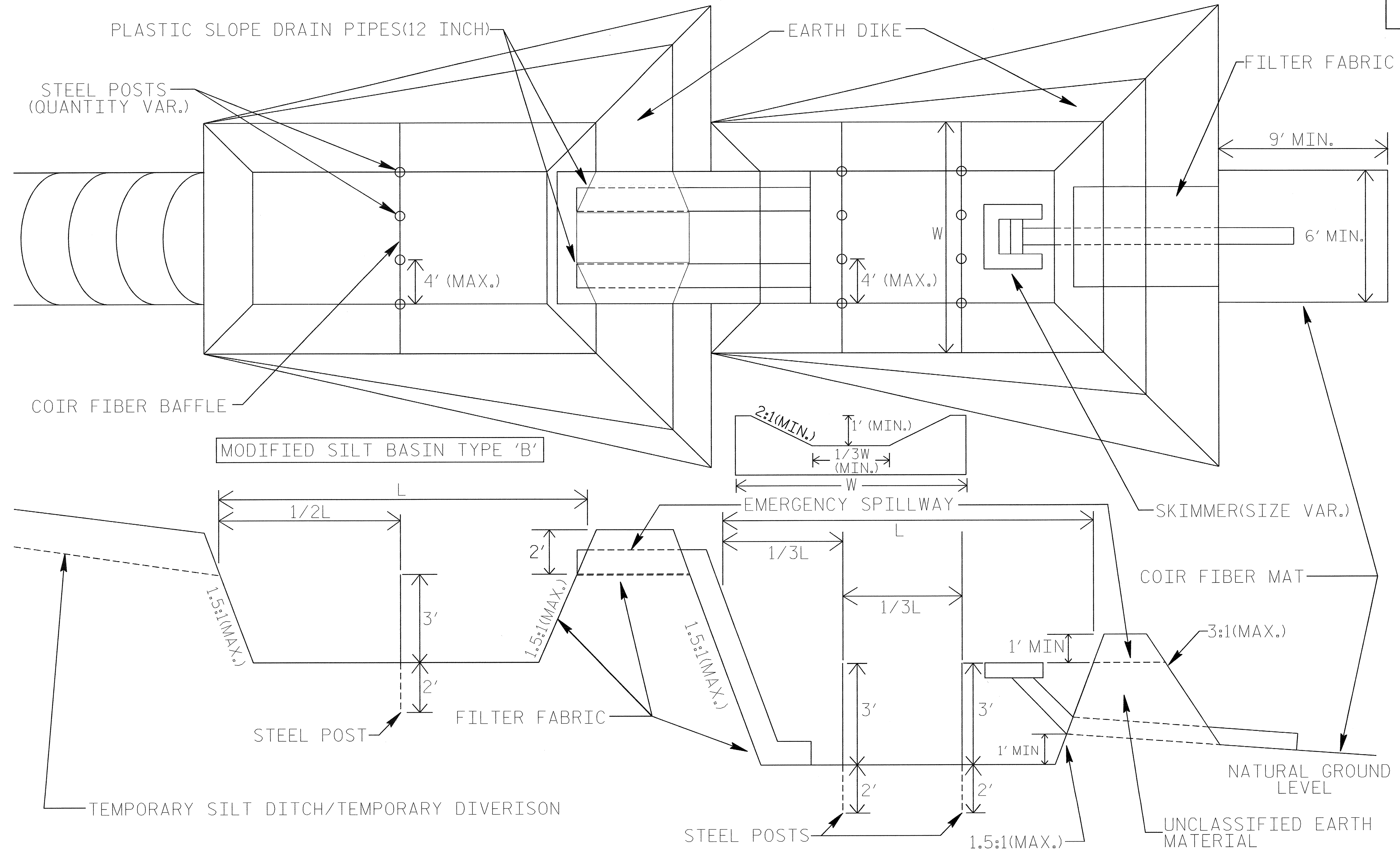
PROJECT REFERENCE NO. B-4076	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**COIR FIBER MAT
ANCHOR OPTIONS**

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. B-4076	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE

ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.

PROJECT REFERENCE NO.	SHEET NO.
B-4076	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

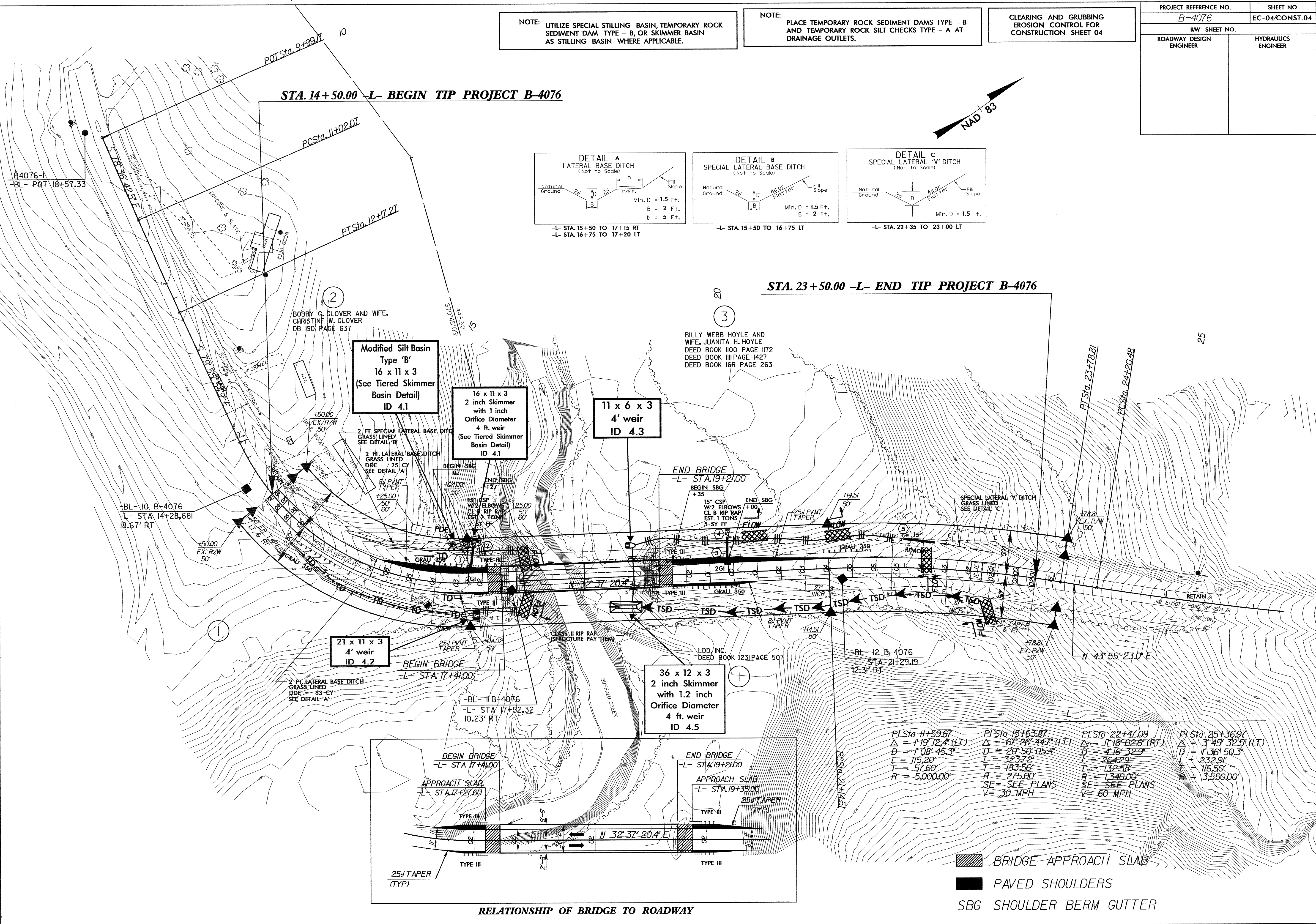
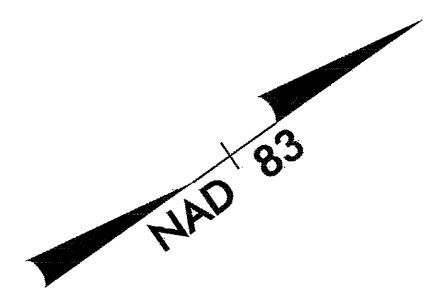
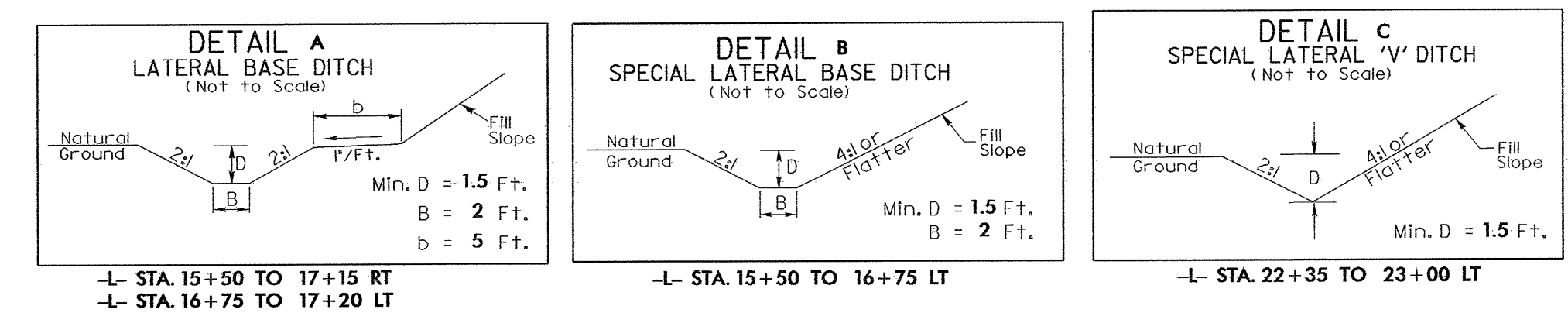
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 04

8/17/99
design-b-4076_ec-dsn_psh.dgn

STA. 14+50.00 -L- BEGIN TIP PROJECT B-4076

STA. 23+50.00 -L- END TIP PROJECT B-4076



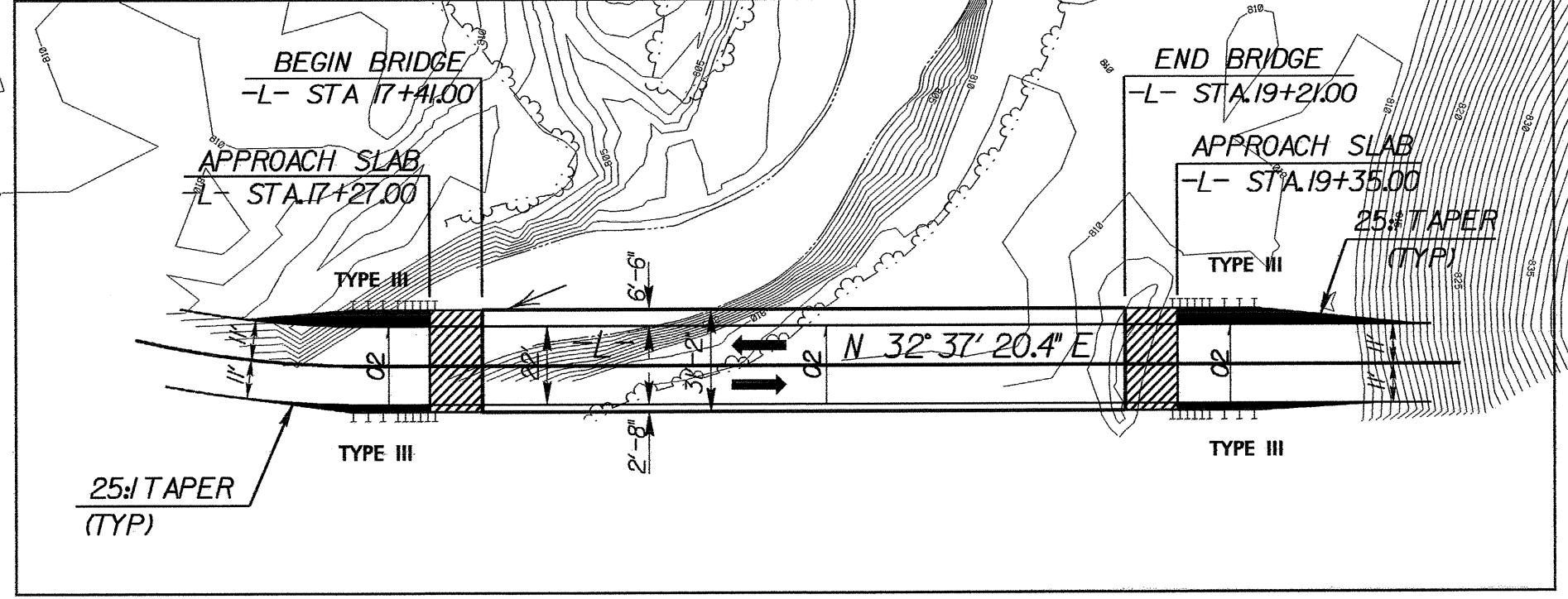
Modified Silt Basin
Type 'B'
16 x 11 x 3
(See Tiered Skimmer Basin Detail)
ID 4.1

16 x 11 x 3
2 inch Skimmer with 1 inch Orifice Diameter
4 ft. weir
(See Tiered Skimmer Basin Detail)
ID 4.1

11 x 6 x 3
4' weir
ID 4.3

21 x 11 x 3
4' weir
ID 4.2

36 x 12 x 3
2 inch Skimmer with 1.2 inch Orifice Diameter
4 ft. weir
ID 4.5



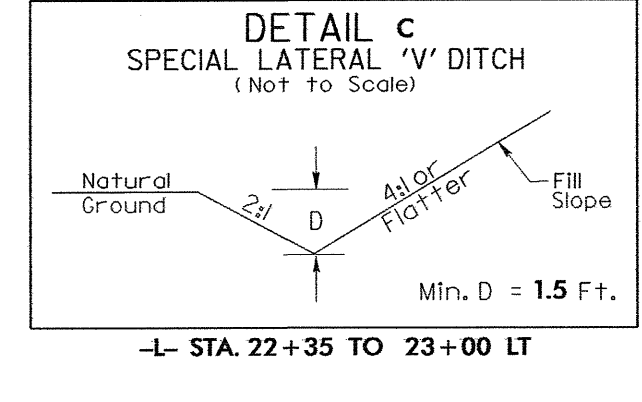
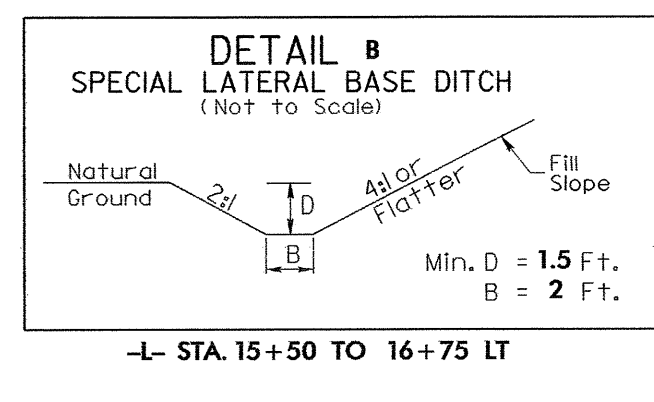
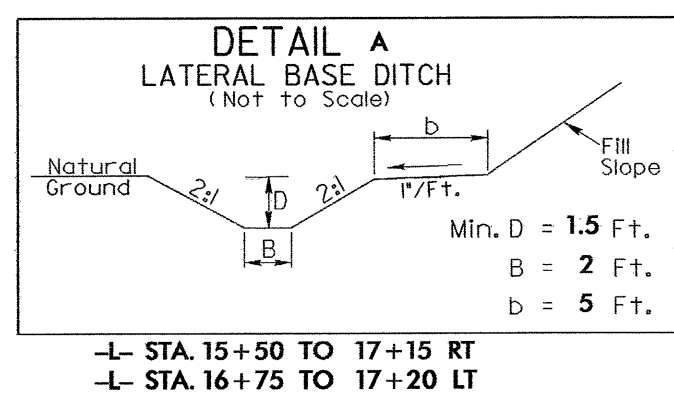
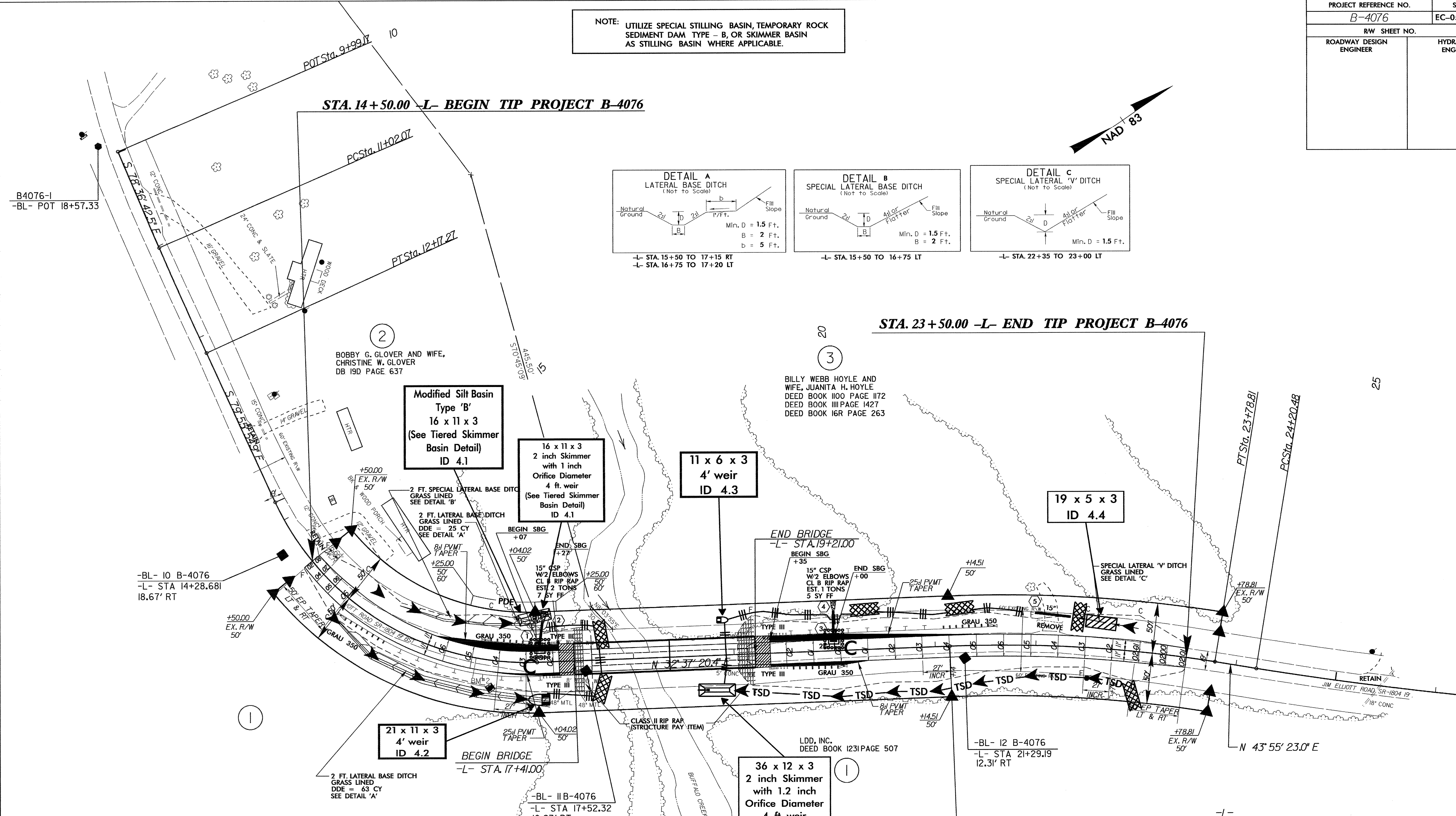
PI Sta 11+59.67 Δ = 1° 19' 12.4" (LT) D = 1° 08' 45.3" L = 115.20' T = 57.60' R = 5,000.00'	PI Sta 15+63.87 Δ = 67° 26' 44.7" (LT) D = 20° 50' 05.4" L = 323.72' T = 183.56' R = 275.00' SF = SEE PLANS V = 30 MPH	PI Sta 22+47.09 Δ = 11° 18' 02.6" (RT) D = 41° 16' 32.9" L = 264.29' T = 132.58' R = 1,340.00' SF = SEE PLANS V = 60 MPH	PI Sta 25+36.97 Δ = 3° 45' 32.5" (LT) D = 1° 36' 50.3" L = 232.91' T = 116.50' R = 3,550.00'
--	---	---	---

BRIDGE APPROACH SLAB
 PAVED SHOULDERS
 SBG SHOULDER BERM GUTTER

RELATIONSHIP OF BRIDGE TO ROADWAY

PROJECT REFERENCE NO.	SHEET NO.
B-4076	EC-05/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

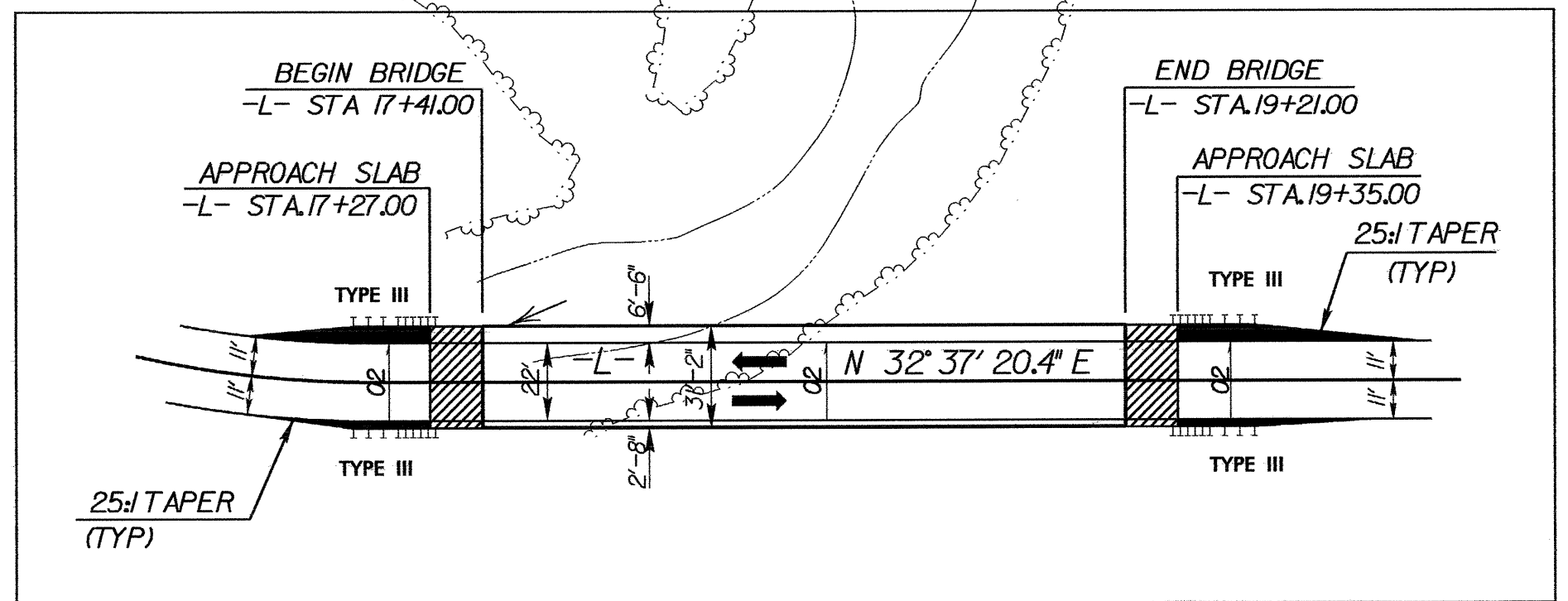
NOTE: UTILIZE SPECIAL STILLING BASIN, TEMPORARY ROCK SEDIMENT DAM TYPE - B, OR SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.



STA. 23+50.00 -L- END TIP PROJECT B-4076

REVISIONS

esign\11-4076-ec-dan_psh.dgn



PI Sta 11+59.67 Δ = 1°19'12.4" (LT) D = 1°08'45.3" L = 115.20' T = 57.60' R = 5,000.00'	PI Sta 15+63.87 Δ = 67°26'44.7" (LT) D = 20°50'05.4" L = 323.72' T = 183.56' R = 275.00' SE = SEE PLANS V = 30 MPH	PI Sta 22+47.09 Δ = 11°18'02.6" (RT) D = 4°16'32.9" L = 264.29' T = 132.58' R = 1,340.00' SE = SEE PLANS V = 60 MPH	PI Sta 25+36.97 Δ = 3°45'32.5" (LT) D = 1°36'50.3" L = 232.91' T = 116.50' R = 3,550.00'
--	---	--	---

- BRIDGE APPROACH SLAB
- PAVED SHOULDERS
- SBG SHOULDER BERM GUTTER