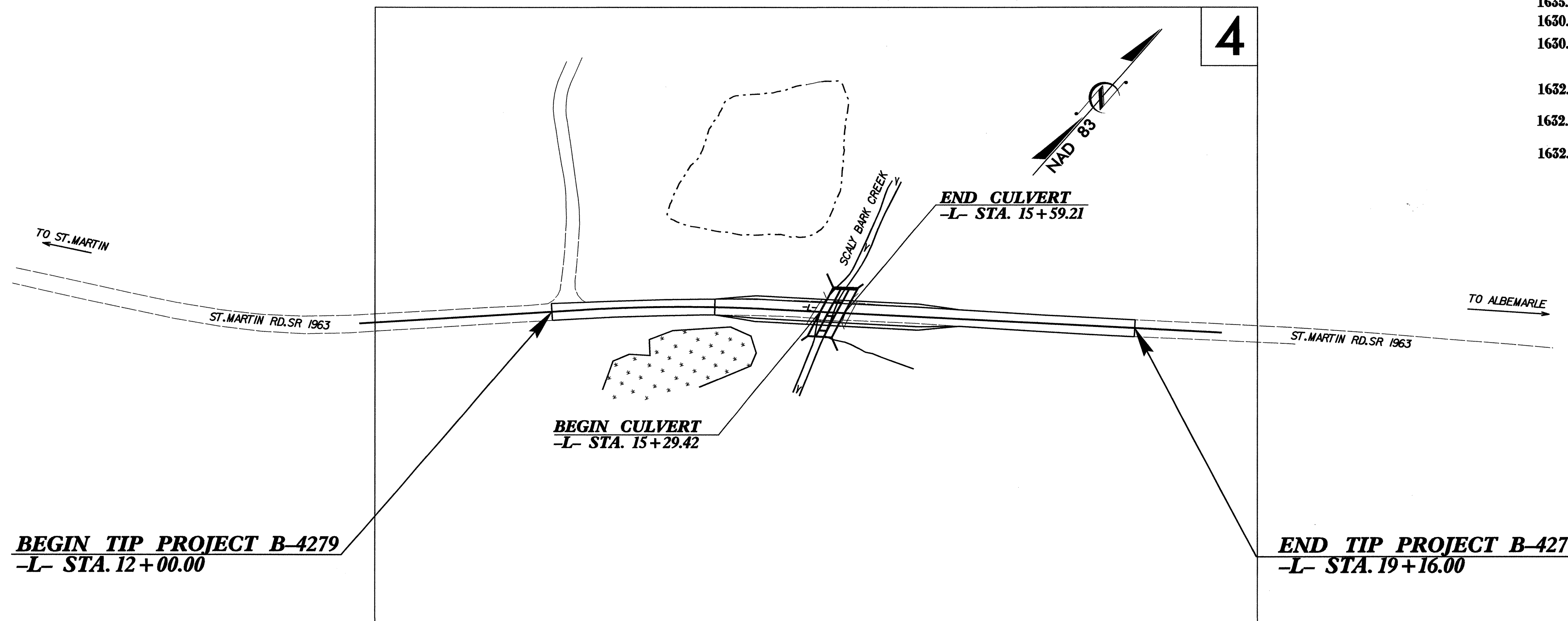


TIP PROJECT: B-4279

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

STANLY COUNTY

**LOCATION: BRIDGE NO. 120 ON SR 1963 (ST. MARTIN ROAD)
 OVER SCALY BARK CREEK
 TYPE OF WORK: GRADING, DRAINAGE,**



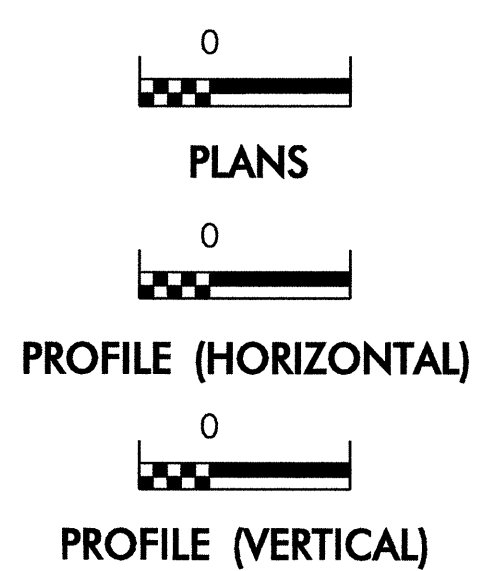
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4279	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	▲▲▲▲▲▲▲▲
1630.01	Riser Basin	⊙
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-B	▨
	Wattle	⤴
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	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	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

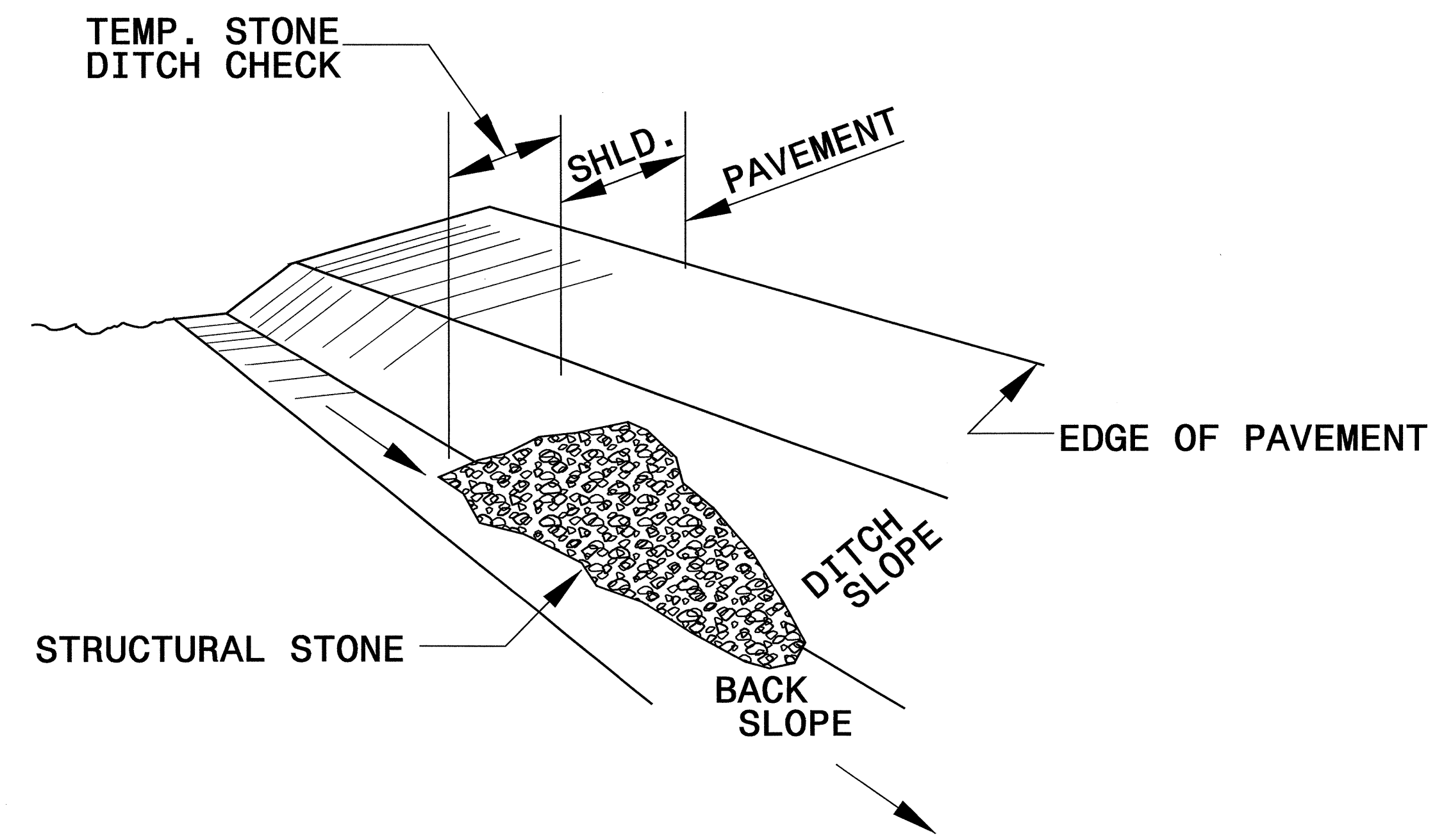
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1630.04 Stilling Basin	
1630.05 Temporary Diversion	

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 projects\564279\Roadside Environmental Design\B4279_rdl.tsh.dgn
 nring AT RENW23813

PROJECT REFERENCE NO. <i>B-4279</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

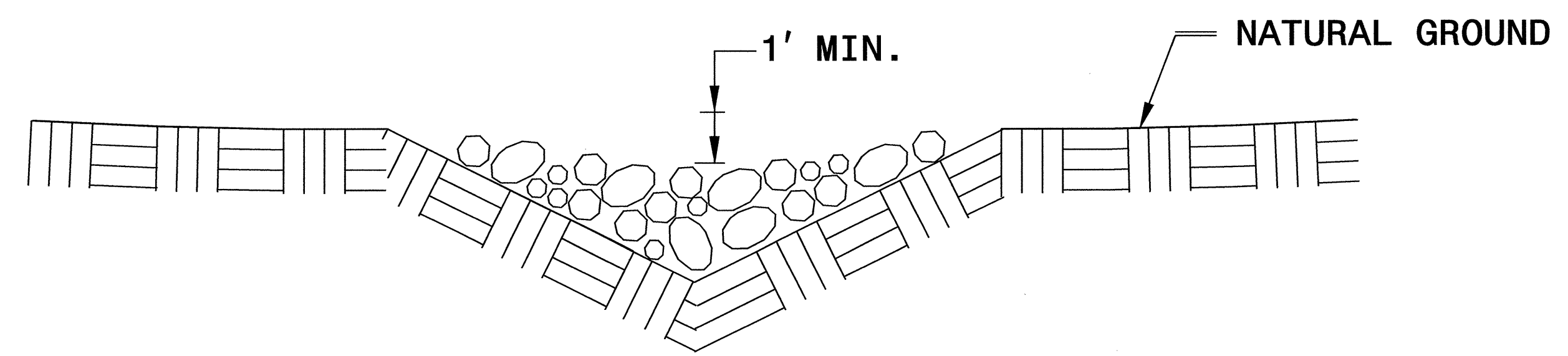


ISOMETRIC VIEW

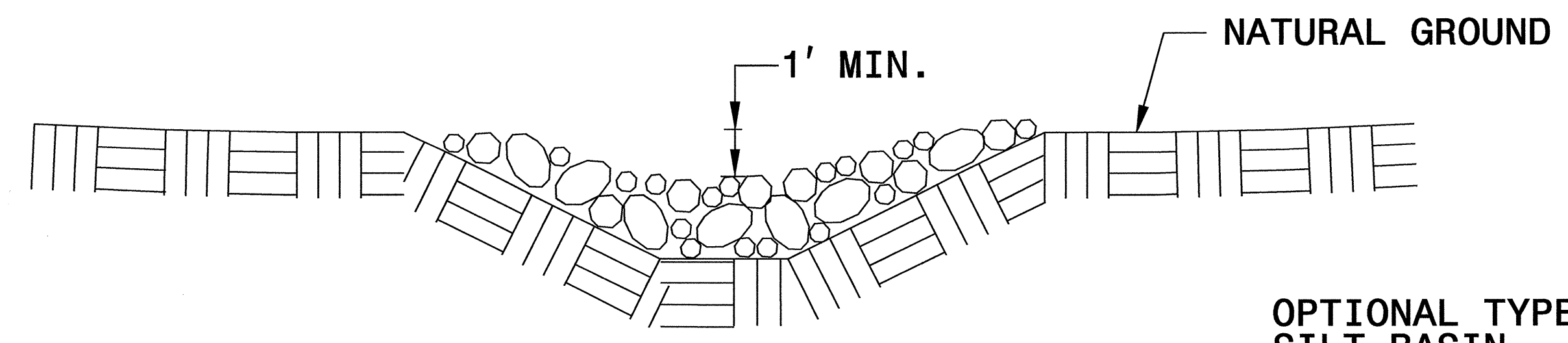
NOTES:

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

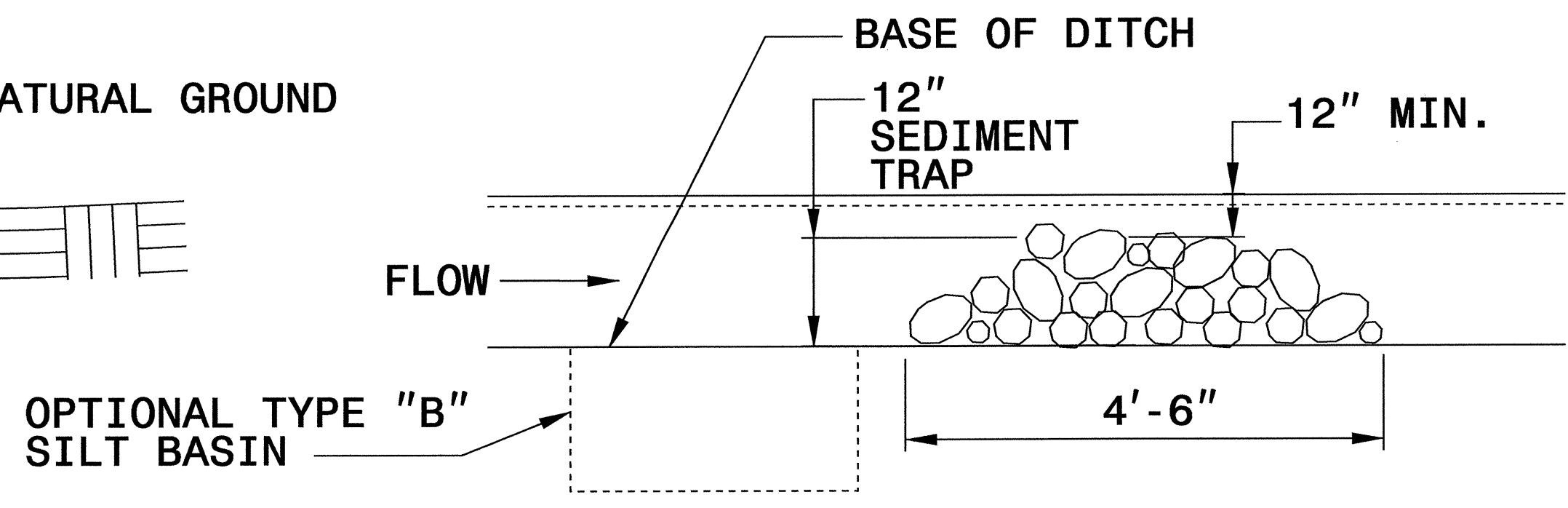
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



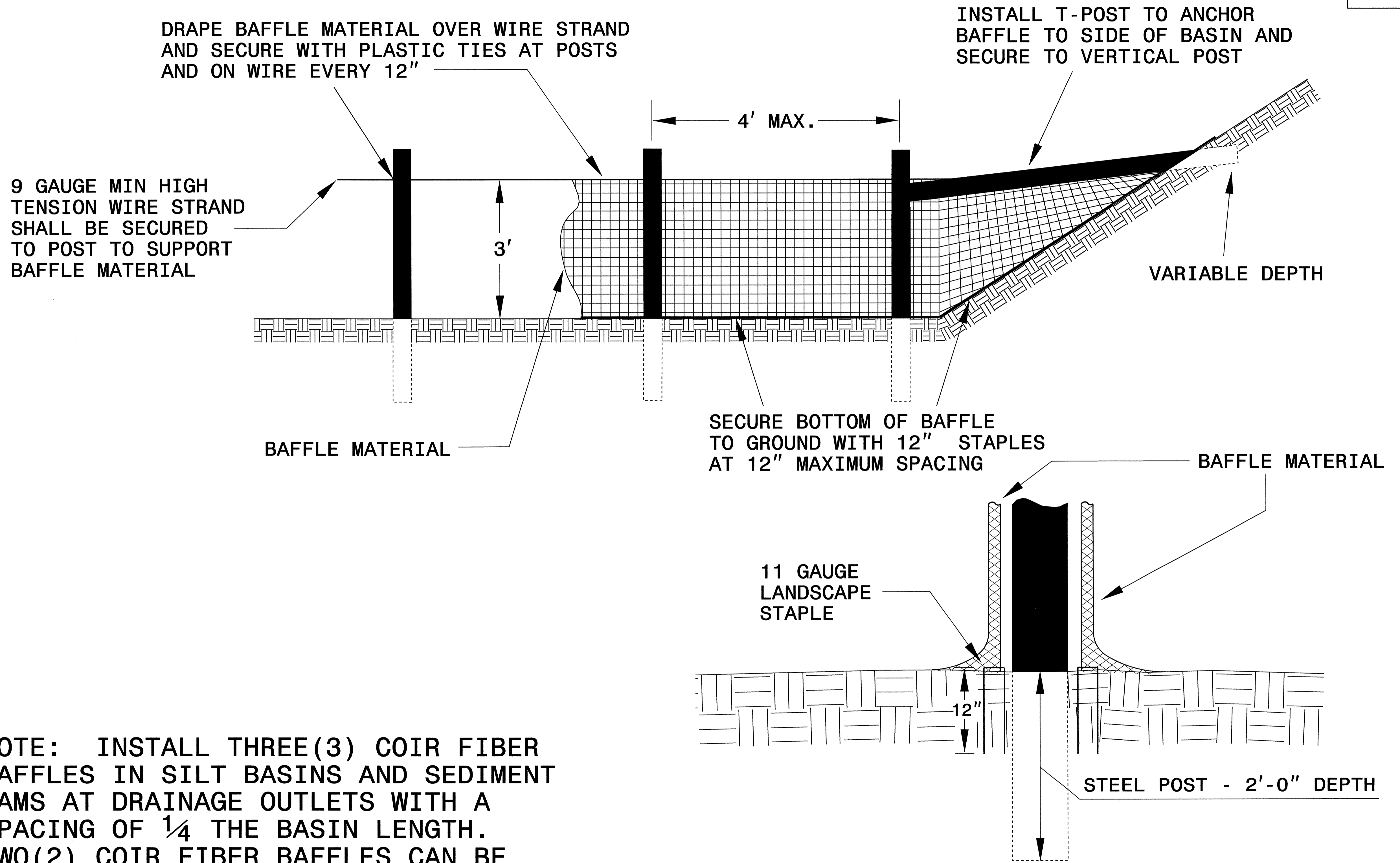
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. B-4279	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

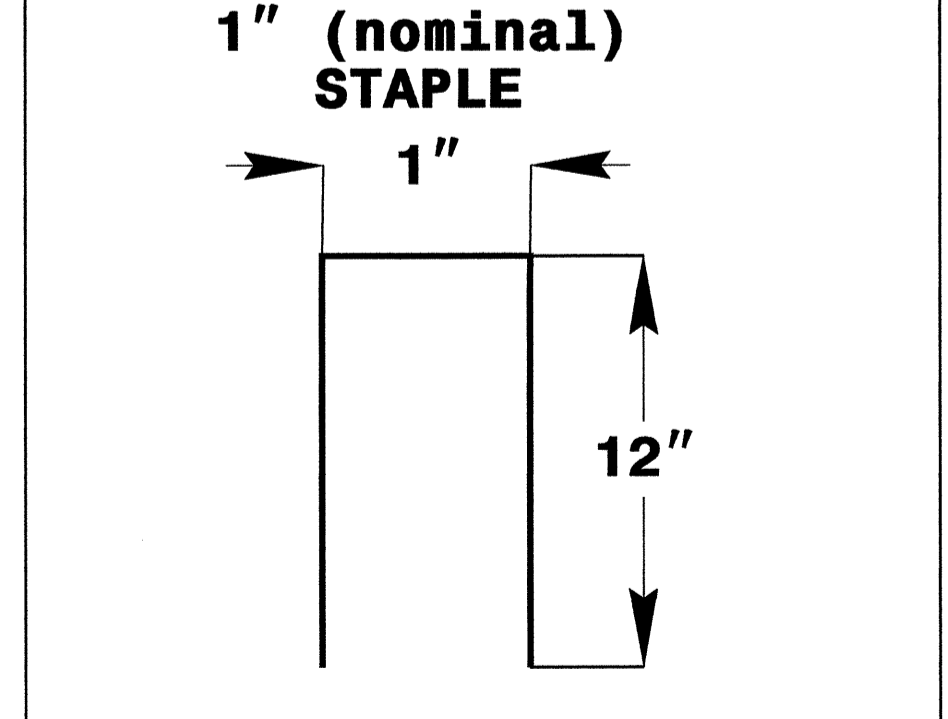
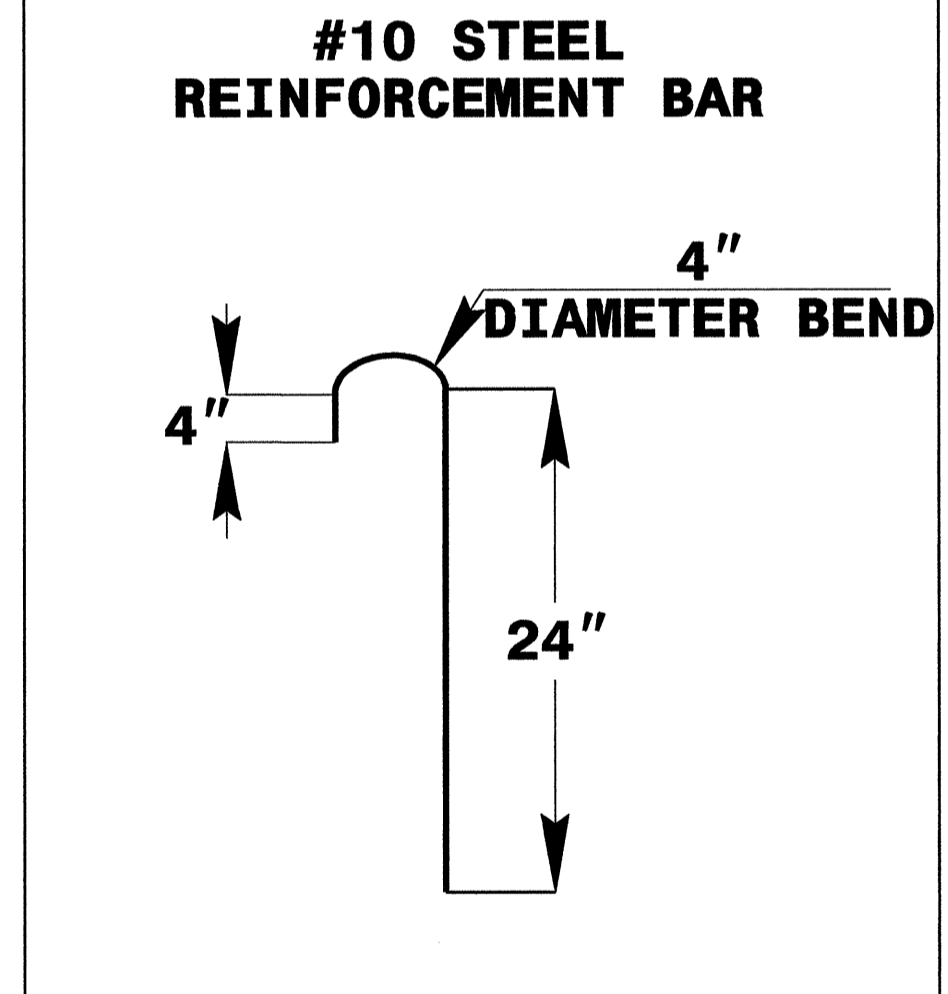
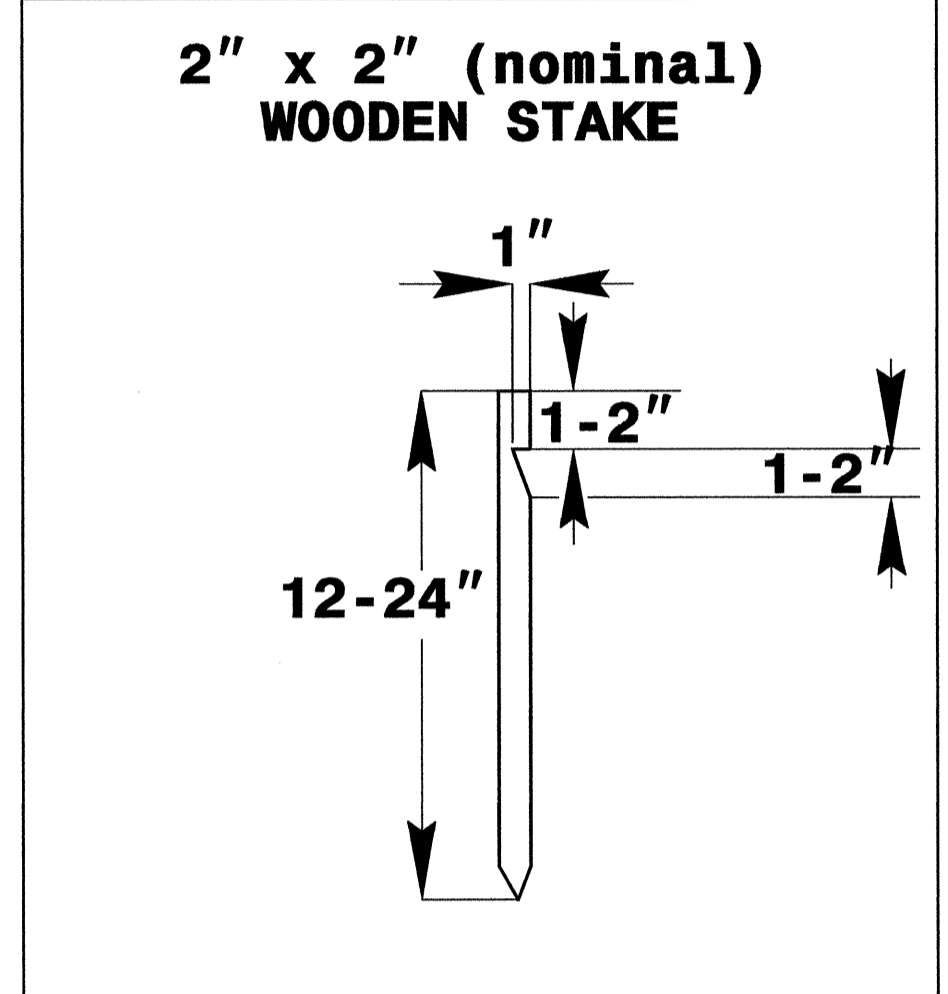
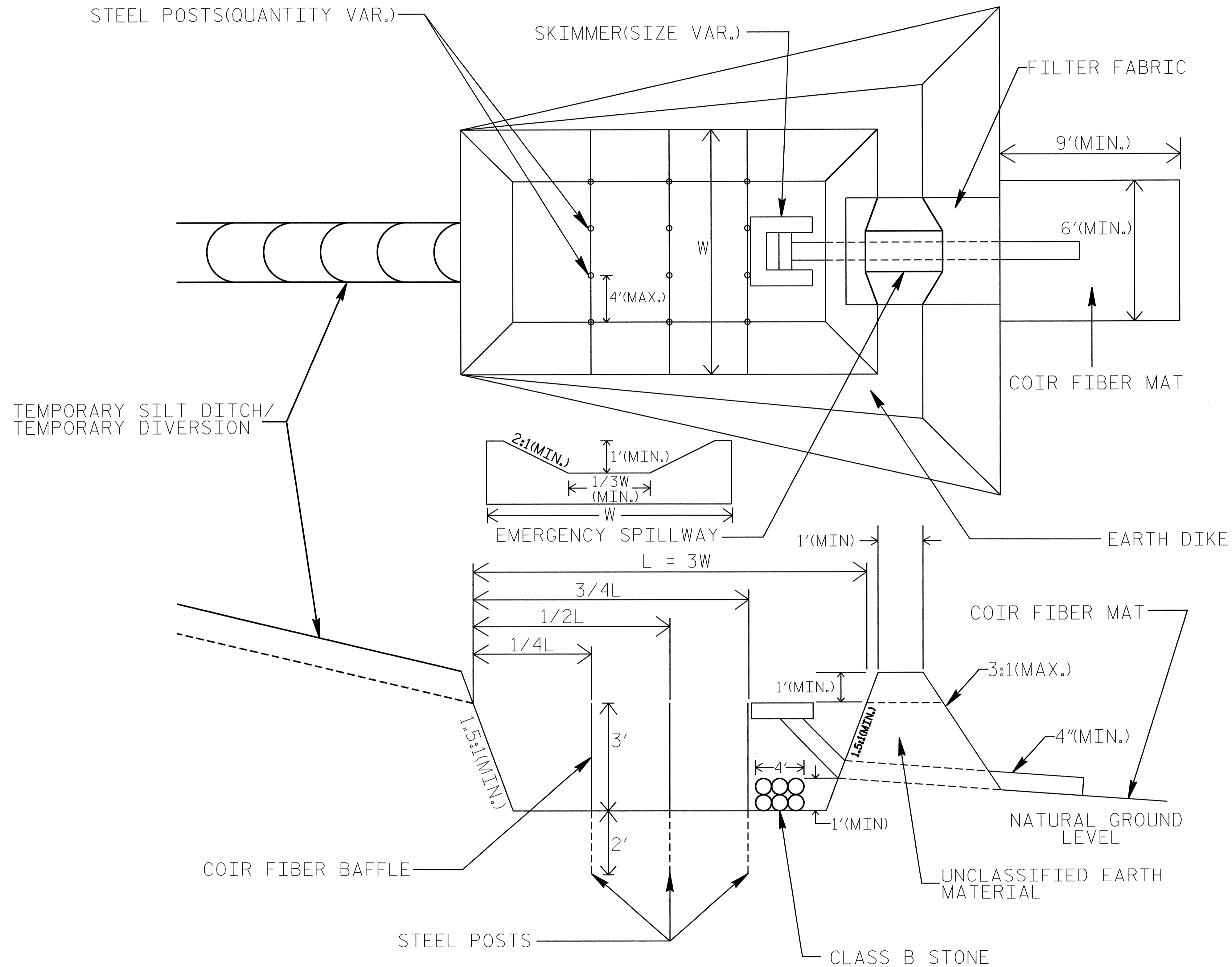


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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

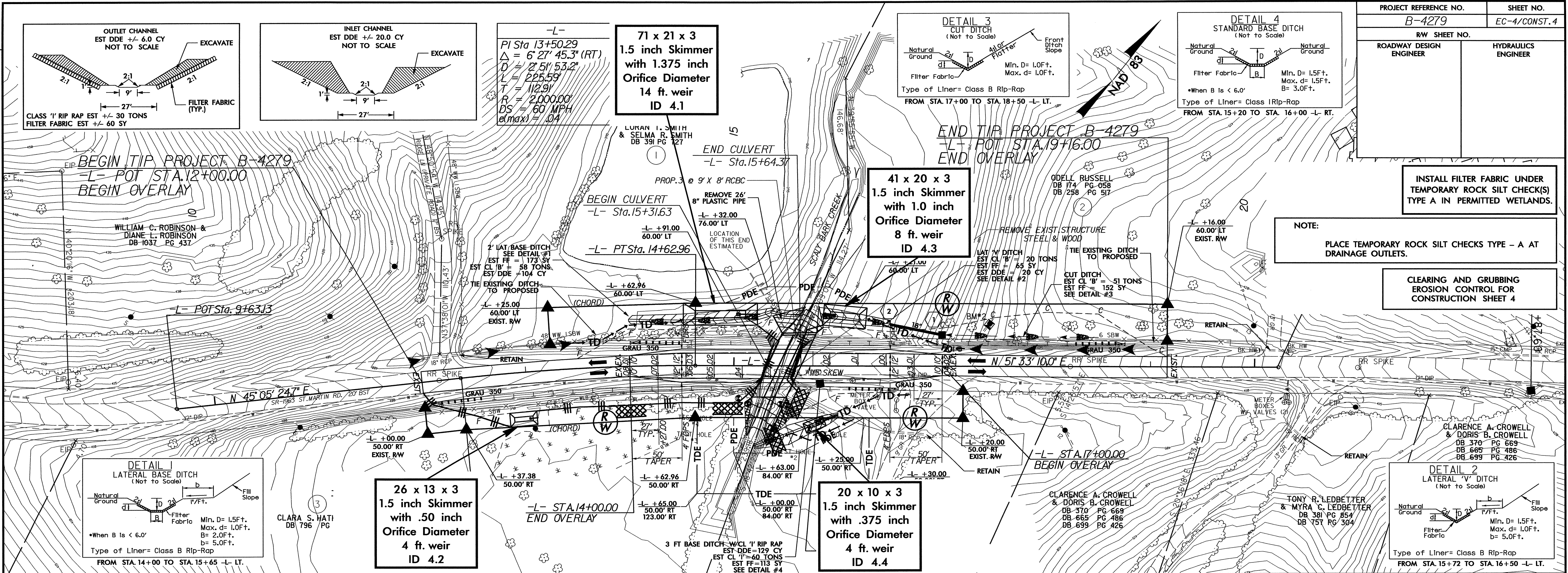
SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. B-4279	SHEET NO. EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

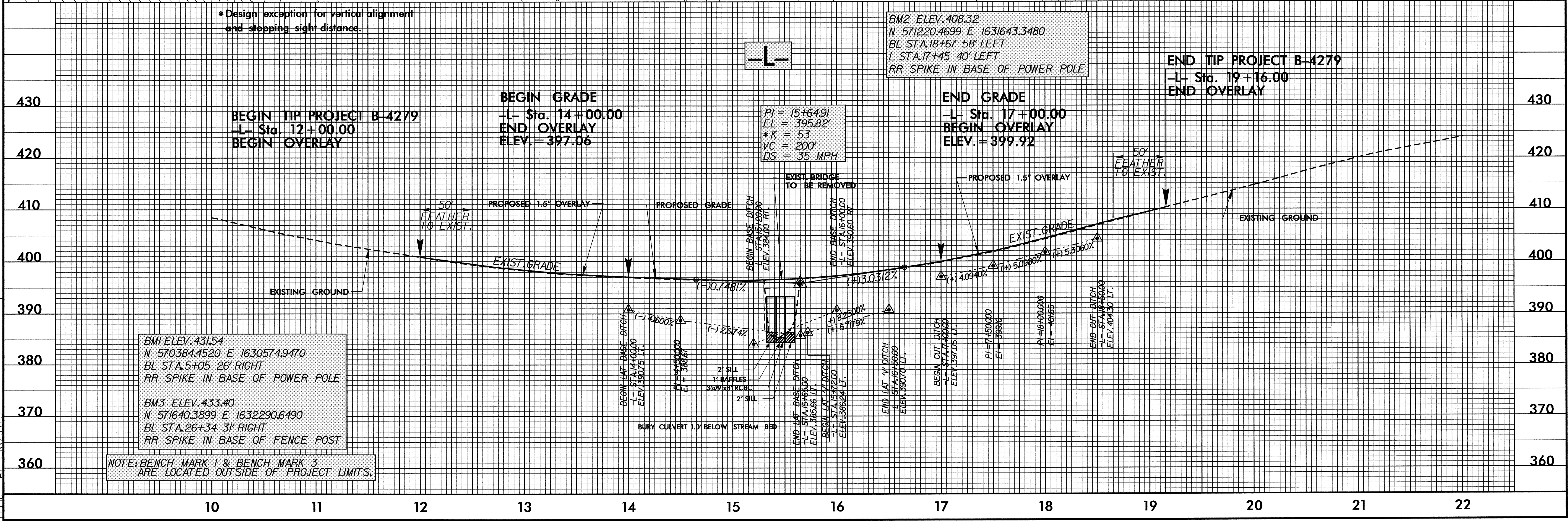
- NOTES:**
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
 2. LIMIT EARTH DIKE HEIGHT TO 5 FT.



NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4



BMI ELEV. 431.54
N 570384.4520 E 1630574.9470
BL STA. 5+05 26' RIGHT
RR SPIKE IN BASE OF POWER POLE

BM3 ELEV. 433.40
N 571640.3899 E 1632290.6490
BL STA. 26+34 31' RIGHT
RR SPIKE IN BASE OF FENCE POST

NOTE: BENCH MARK 1 & BENCH MARK 3 ARE LOCATED OUTSIDE OF PROJECT LIMITS.

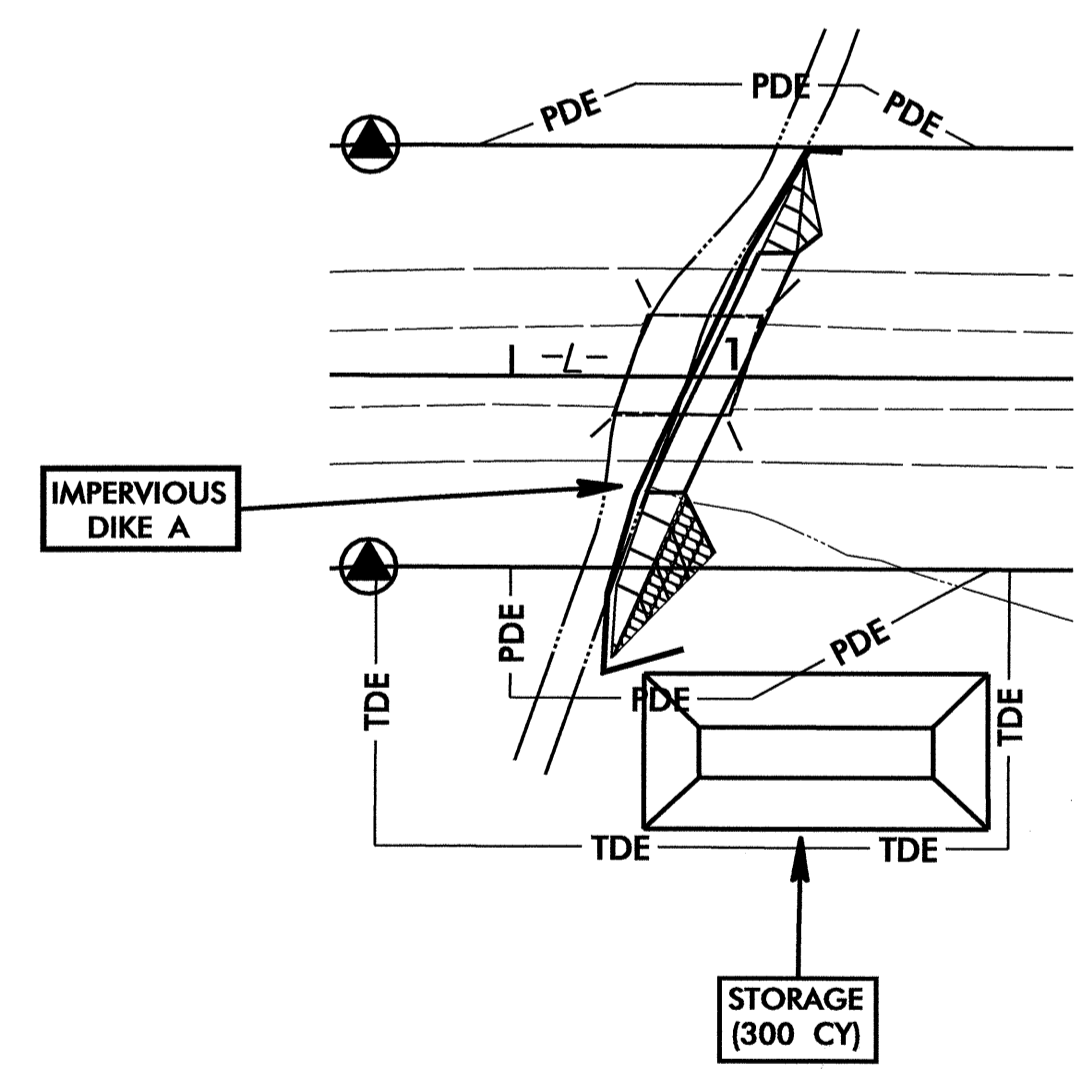
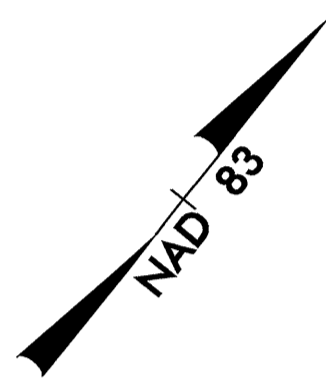
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PROJECT REFERENCE NO. B-4279	SHEET NO. EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 15 + 48 -L-

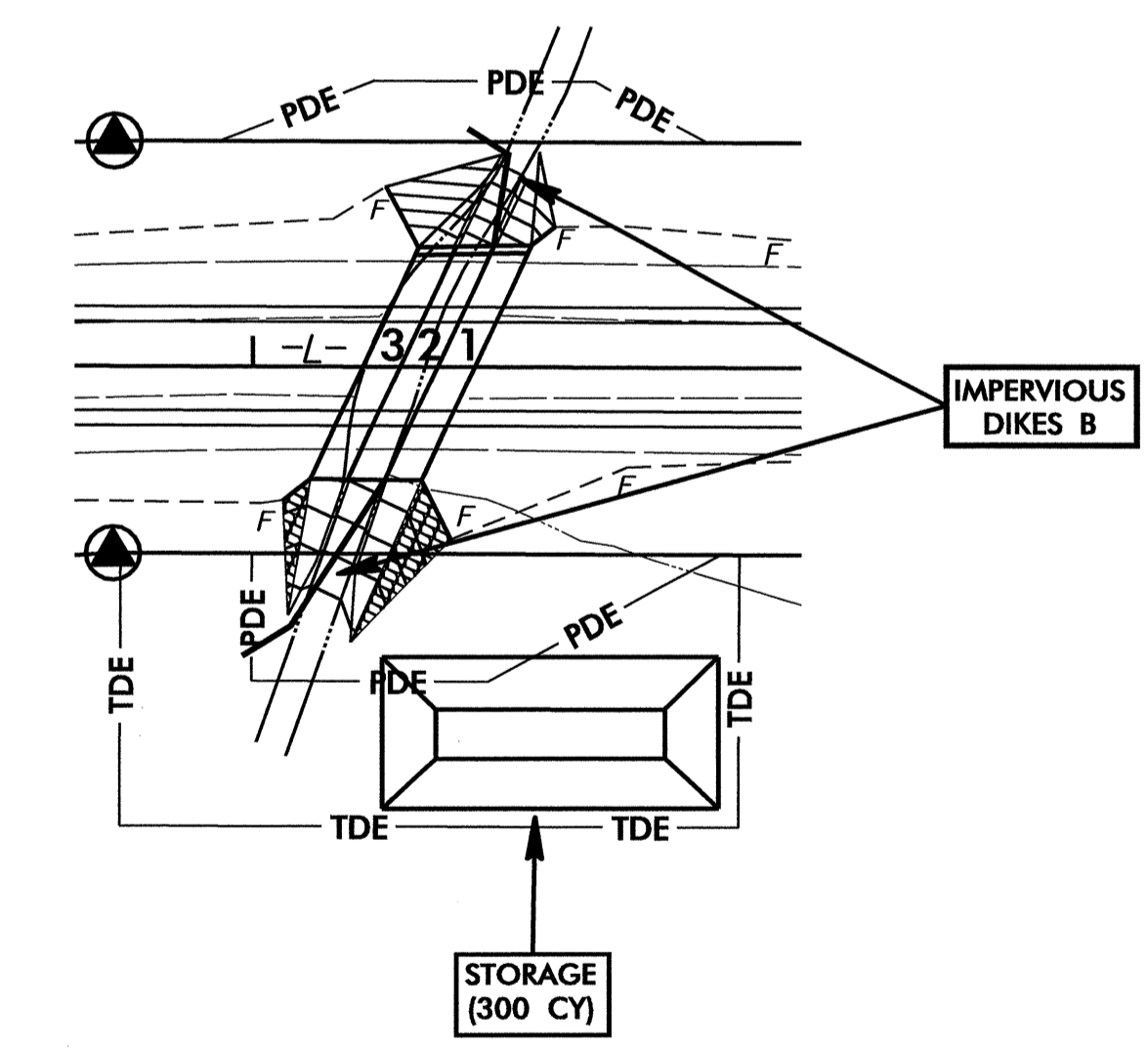
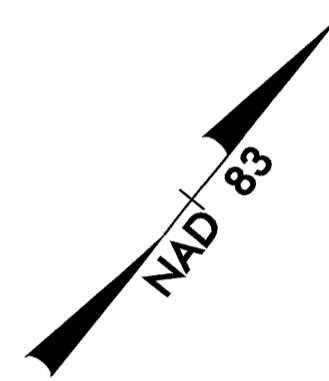
PHASE I

1. CONSTRUCT STILLING BASIN (300 CY).
2. REMOVE EXISTING BRIDGE.
3. CONSTRUCT IMPERVIOUS DIKE A.
4. CONSTRUCT BARREL 1, AND PORTION OF THE HEADWALL/ENDWALL AND PORTION OF THE CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKE A.

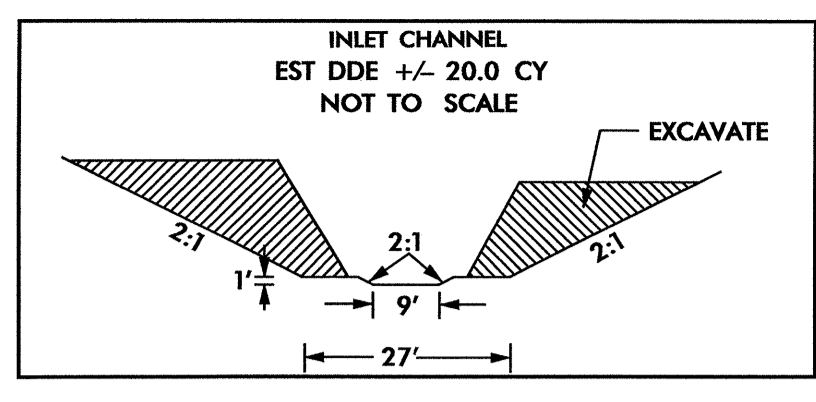
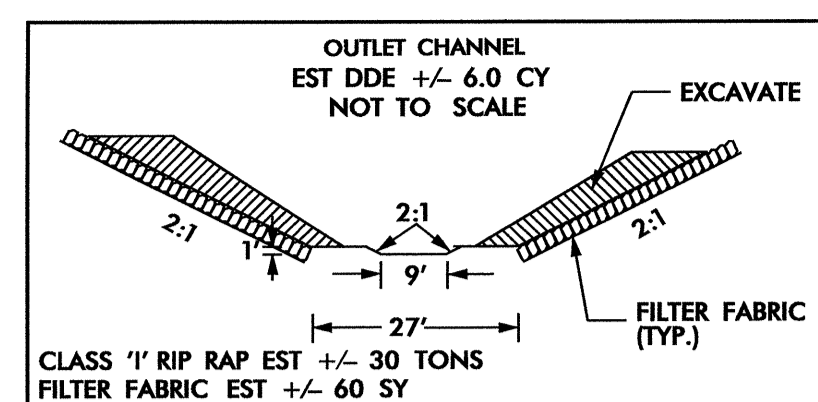


PHASE II

6. CONSTRUCT IMPERVIOUS DIKES B, DIVERTING FLOW THROUGH BARREL 1.
7. CONSTRUCT BARRELS 2 AND 3 AND REMAINDER OF THE HEADWALL/ENDWALL.
8. REMOVE IMPERVIOUS DIKES B.
9. CONSTRUCT REMAINDER OF THE CHANNEL IMPROVEMENTS, AND INSTALL SILLS IN BARRELS 1 AND 3.
10. REMOVE STILLING BASIN, AND COMPLETE ROADWAY.

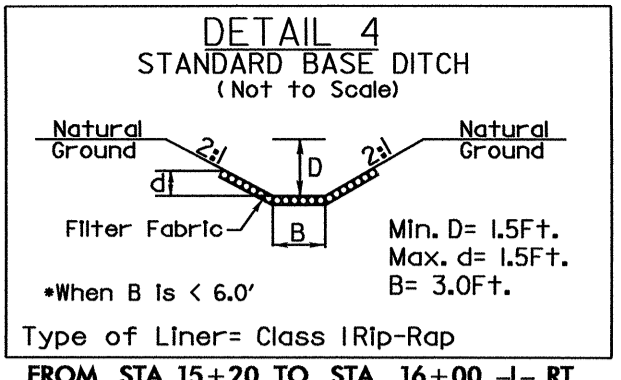
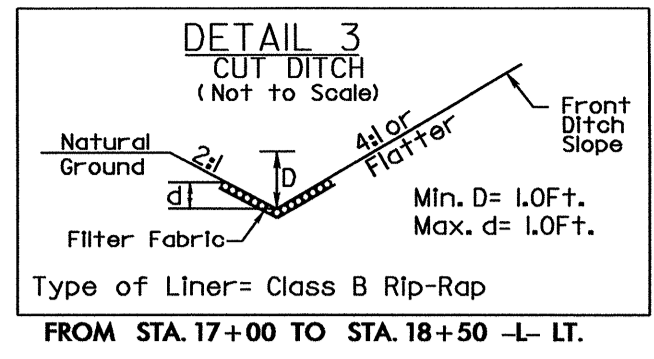


PROJECT REFERENCE NO.	SHEET NO.
B-4279	EC-6/CONST. 4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

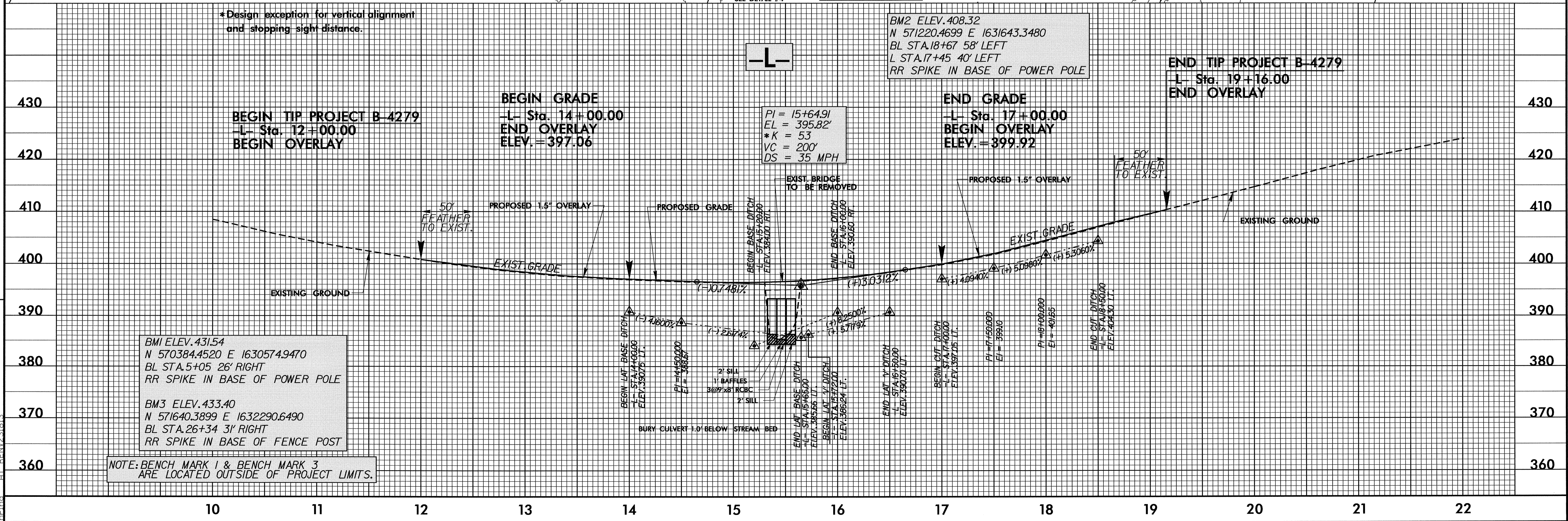
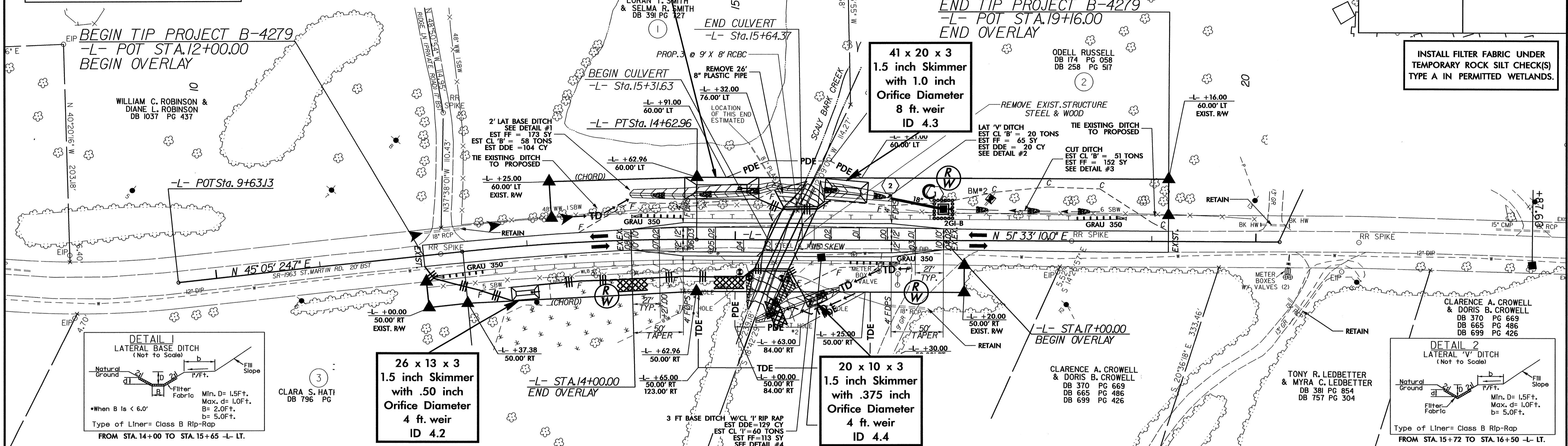


-L-
PI Sta 13+50.29
 $\Delta = 6' 27'' 45.3'' (RT)$
 $D = 2' 51'' 53.2''$
 $L = 225.59'$
 $T = 112.91'$
 $R = 2,000.00'$
 $DS = 60 \text{ MPH}$
 $e(max) = .04$

71 x 21 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
14 ft. weir
ID 4.1



INSTALL FILTER FABRIC UNDER
TEMPORARY ROCK SILT CHECK(S)
TYPE A IN PERMITTED WETLANDS.



REVISIONS

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