

TIP PROJECT: B-4326

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WILSON COUNTY

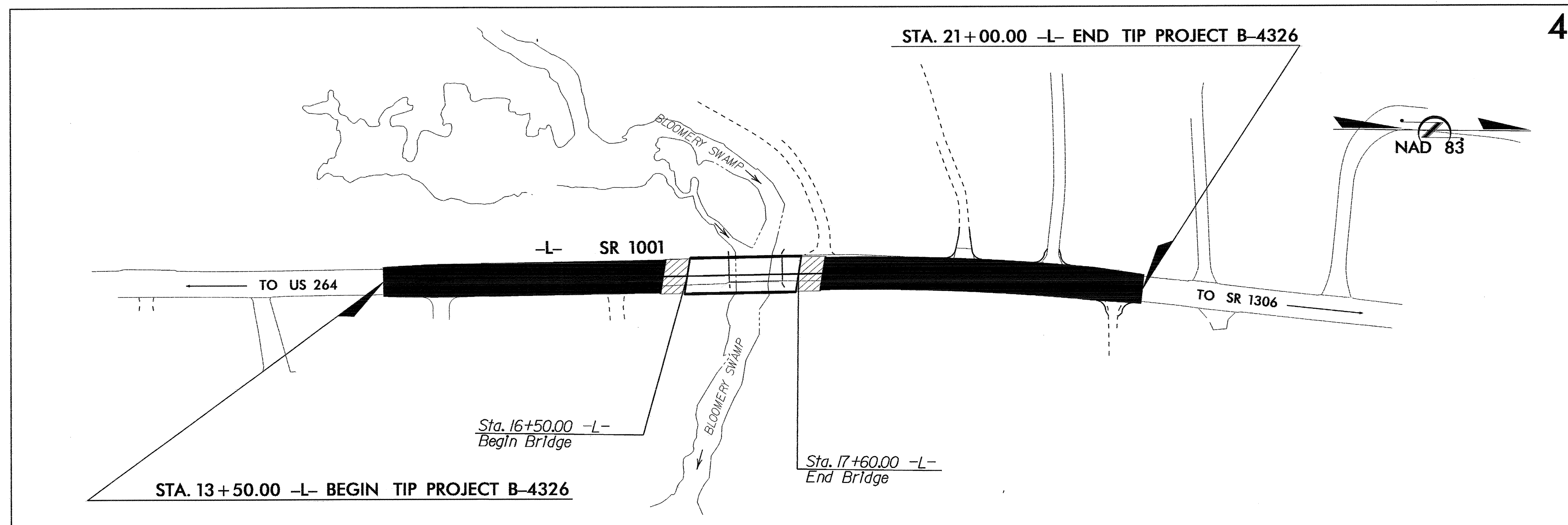
LOCATION: BRIDGE NO. 79 OVER BLOOMERY SWAMP ON SR 1001

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4326	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation.....	
1630.05	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.....	



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

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

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

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

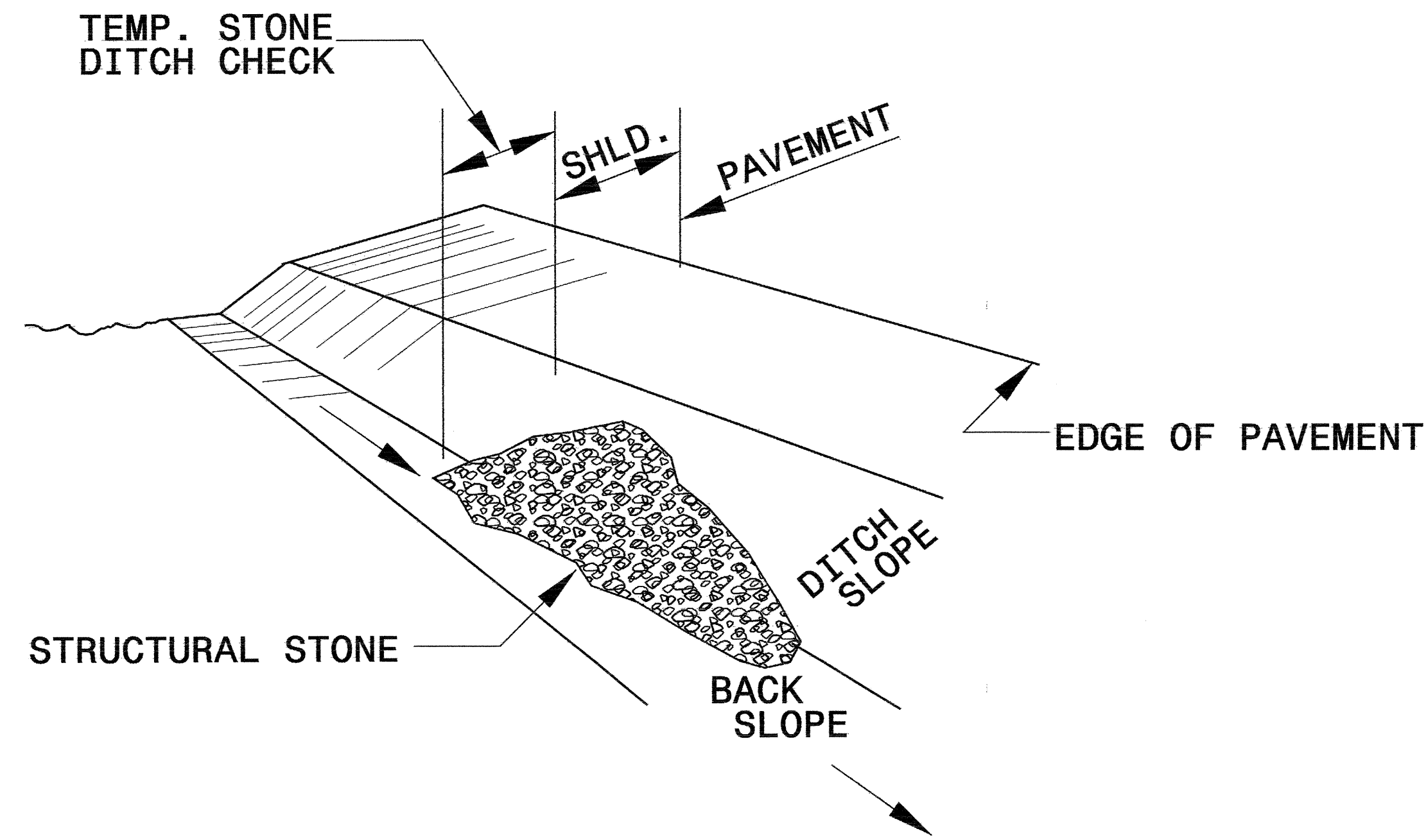
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1607.01 Gravel Construction Entrance	1632.02 Rock Inlet Sediment Trap Type B
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.05 Temporary Diversion	1634.02 Temporary Rock Sediment Dam Type B

I:\projects\1102\environmental\design\B-4326_rdy_tsh.dgn
25/07/2007 11:02
N:\projects\1102\environmental\design\B-4326_rdy_tsh.dgn
25/07/2007 11:02

PROJECT REFERENCE NO. <i>B-4326</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

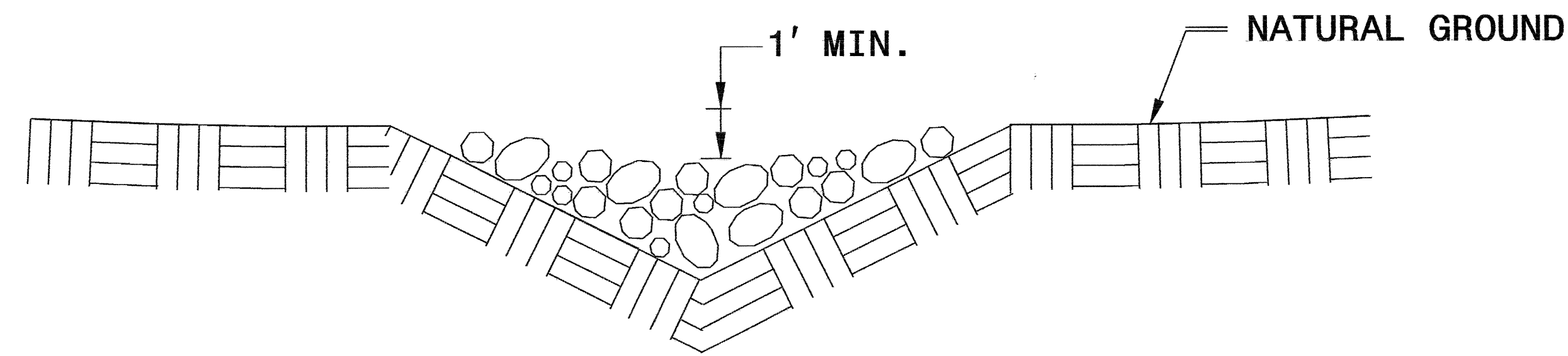


ISOMETRIC VIEW

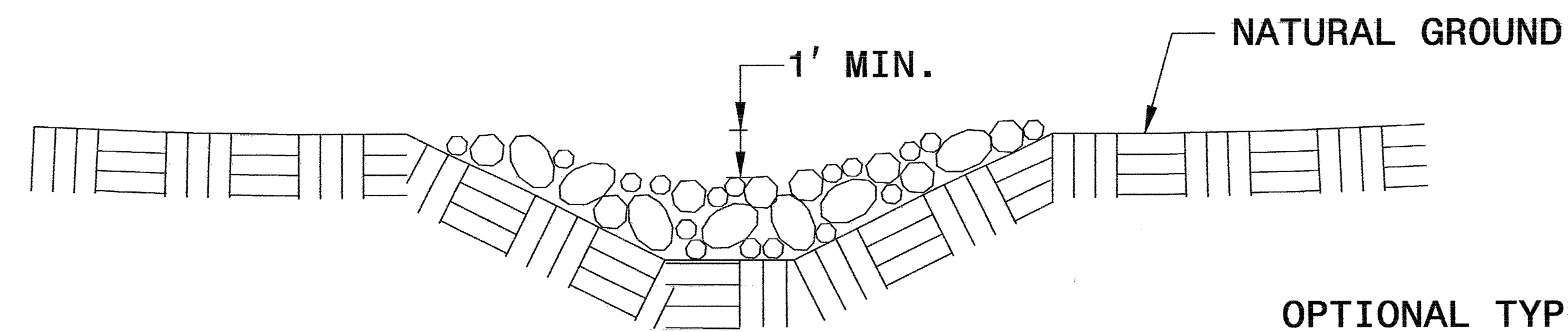
NOTES:

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

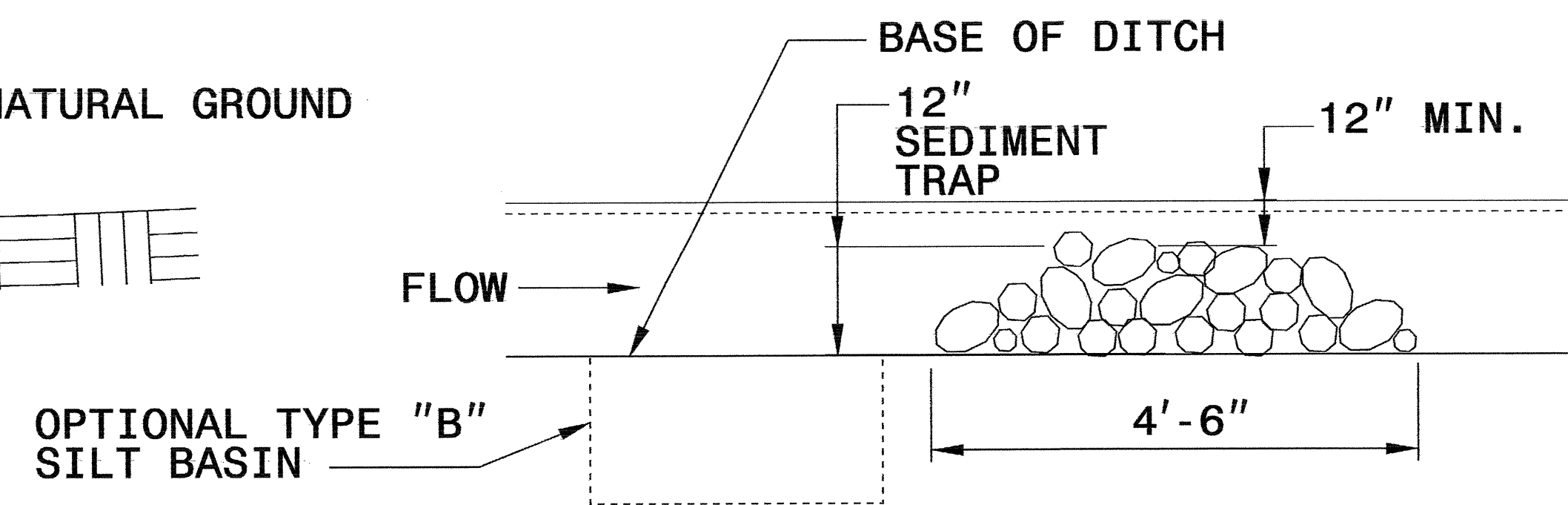
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



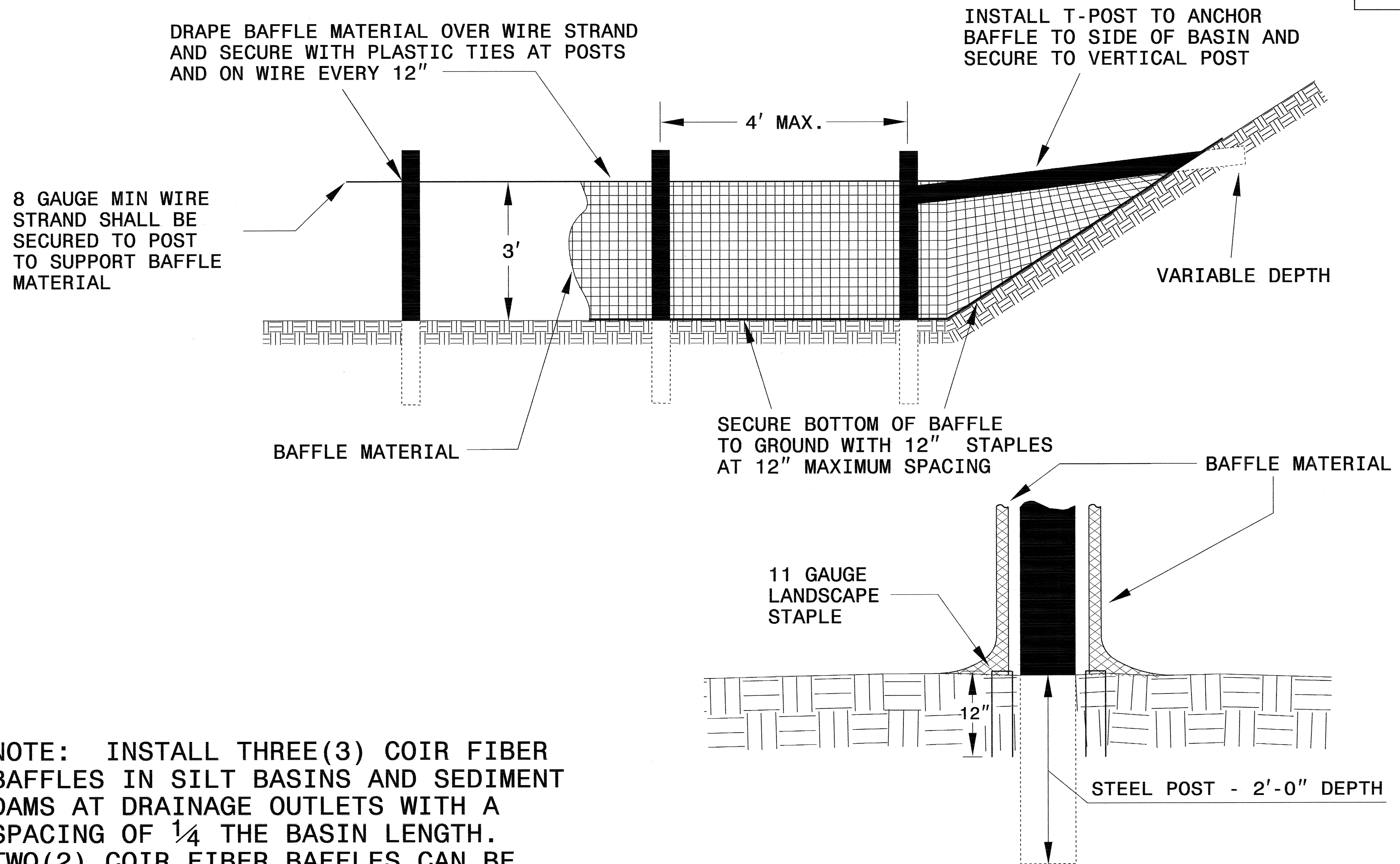
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. B-4326	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.

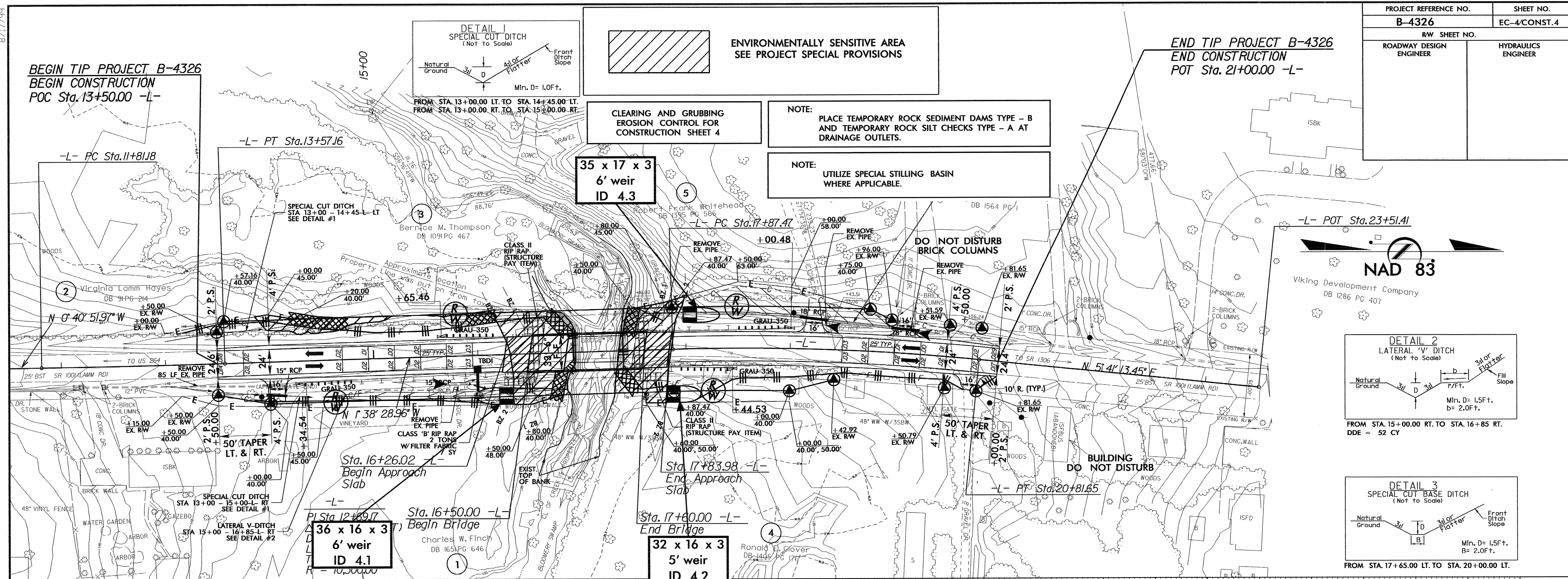
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-4326	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BEGIN TIP PROJECT B-4326
 BEGIN CONSTRUCTION
 POC Sta. 13+50.00 -L-

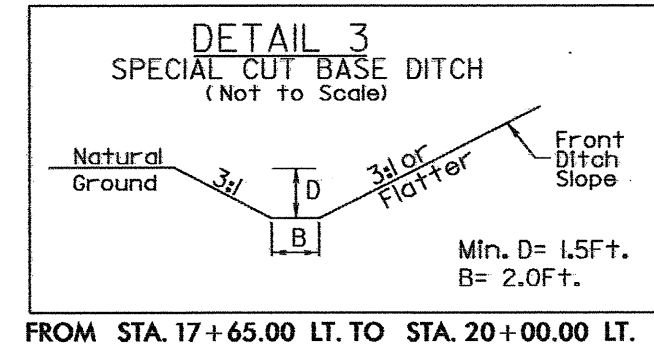
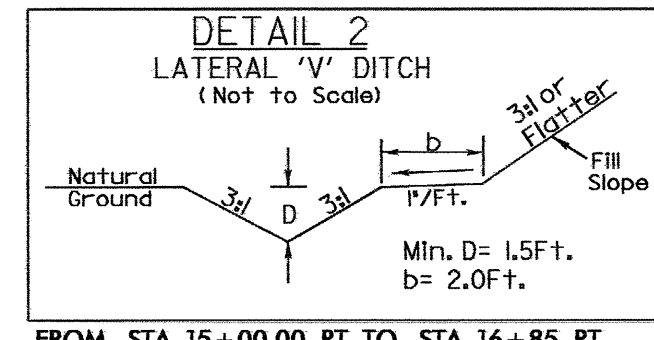
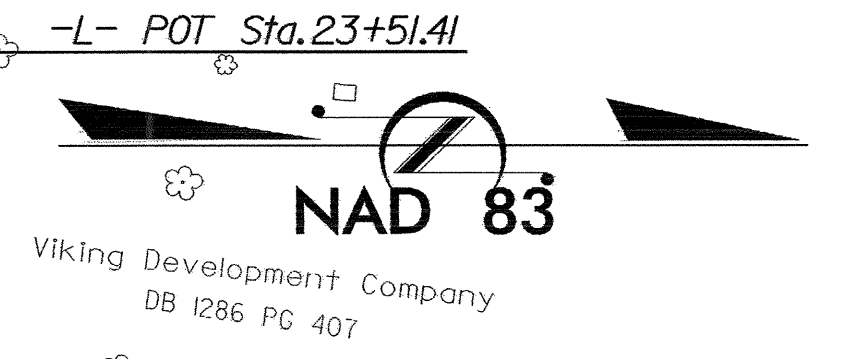
END TIP PROJECT B-4326
 END CONSTRUCTION
 POT Sta. 21+00.00 -L-



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.

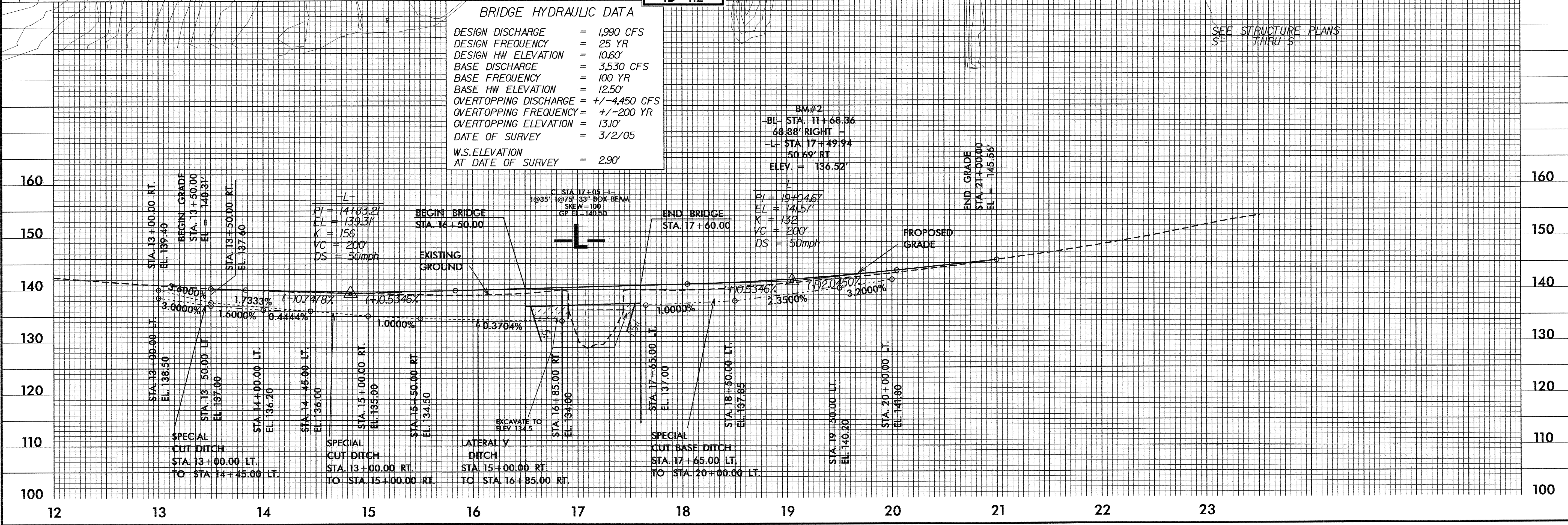
NOTE: UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 1,990 CFS
 DESIGN FREQUENCY = 25 YR
 DESIGN HW ELEVATION = 10.60'
 BASE DISCHARGE = 3,530 CFS
 BASE FREQUENCY = 100 YR
 BASE HW ELEVATION = 12.50'
 OVERTOPPING DISCHARGE = +/- 4,450 CFS
 OVERTOPPING FREQUENCY = +/- 200 YR
 OVERTOPPING ELEVATION = 13.10'
 DATE OF SURVEY = 3/2/05
 W.S. ELEVATION AT DATE OF SURVEY = 2.90'

BM #2
 -BL- STA. 11+68.36
 68.88' RIGHT =
 -L- STA. 17+49.94
 150.69' RT
 ELEV = 136.52'



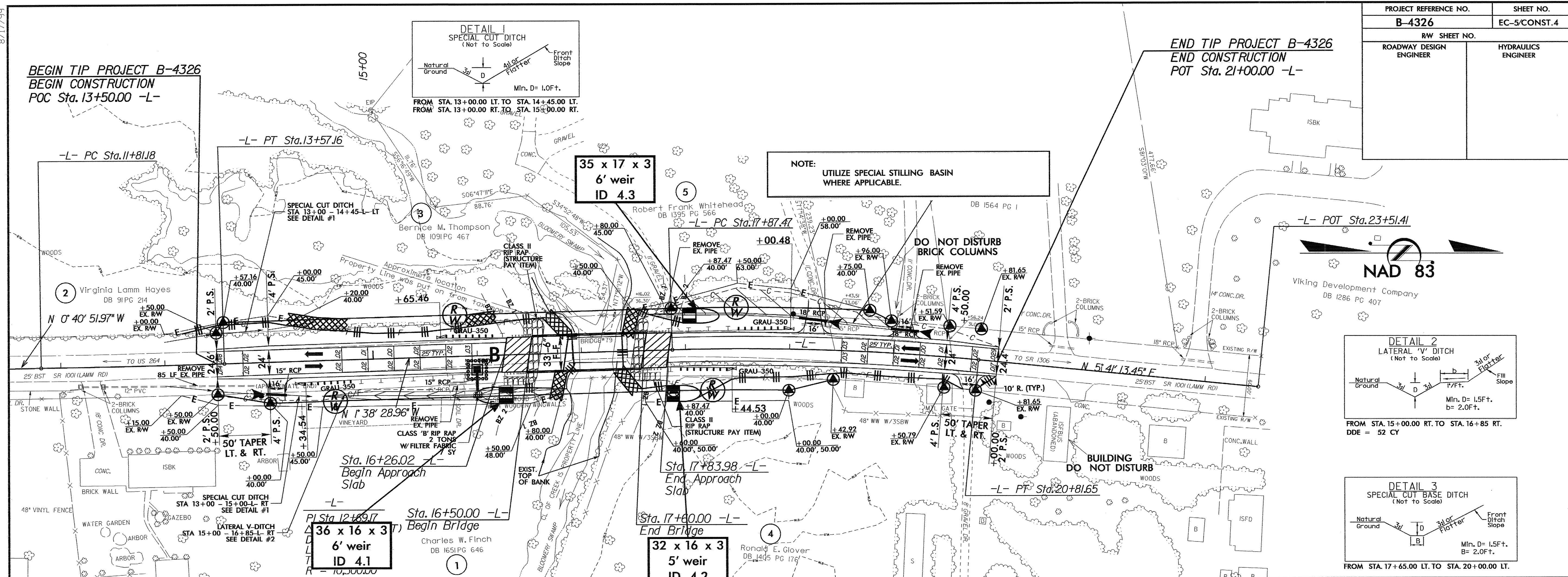
SEE STRUCTURE PLANS
 THRU 5

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-4326	EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BEGIN TIP PROJECT B-4326
 BEGIN CONSTRUCTION
 POC Sta. 13+50.00 -L-

END TIP PROJECT B-4326
 END CONSTRUCTION
 POT Sta. 21+00.00 -L-



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 1,990 CFS
 DESIGN FREQUENCY = 25 YR
 DESIGN HW ELEVATION = 106.60'
 BASE DISCHARGE = 3,530 CFS
 BASE FREQUENCY = 100 YR
 BASE HW ELEVATION = 12.50'
 OVERTOPPING DISCHARGE = +/- 4,450 CFS
 OVERTOPPING FREQUENCY = +/- 200 YR
 OVERTOPPING ELEVATION = 13.10'
 DATE OF SURVEY = 3/2/05
 W.S. ELEVATION AT DATE OF SURVEY = 2.90'

BM #2
 BL STA. 11+68.36
 68.88' RIGHT
 -L- STA. 17+49.94
 50.69' RT
 ELEV. = 136.52'

SEE STRUCTURE PLANS
 S-1 THRU S-5

