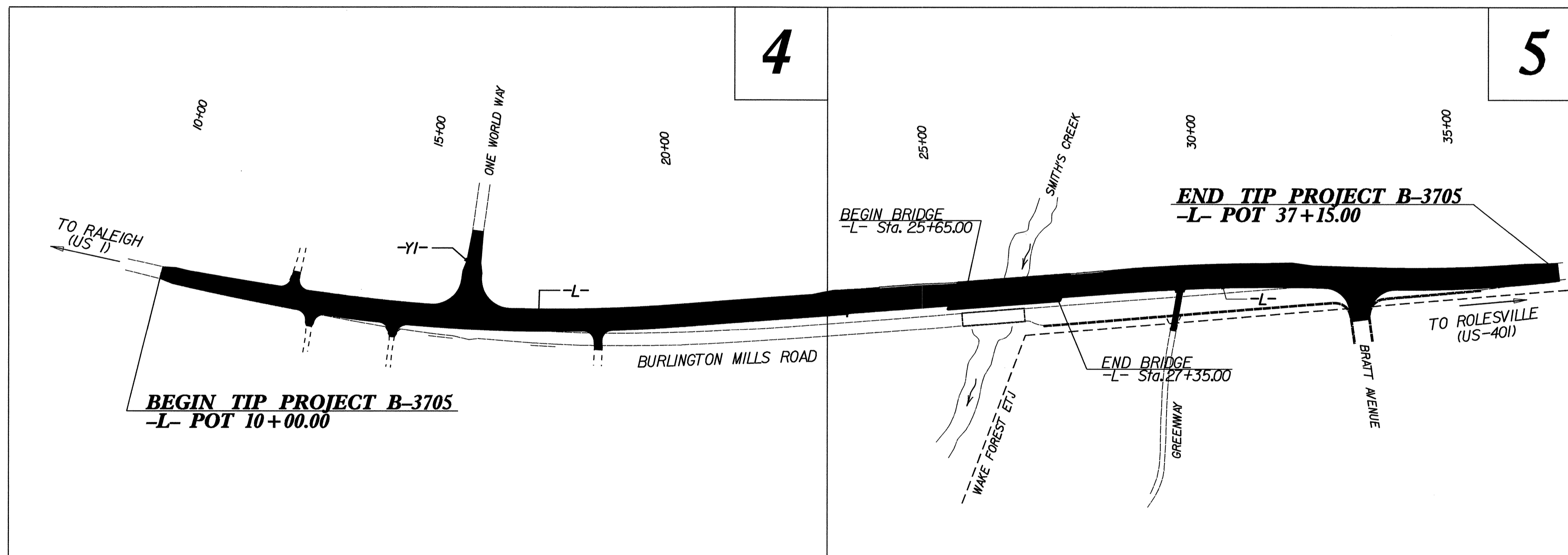


TIP PROJECT: B-3705

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

LOCATION: BRIDGE NO. 125 OVER SMITH'S CREEK ON SR 2045 (BURLINGTON MILLS RD)



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3705	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

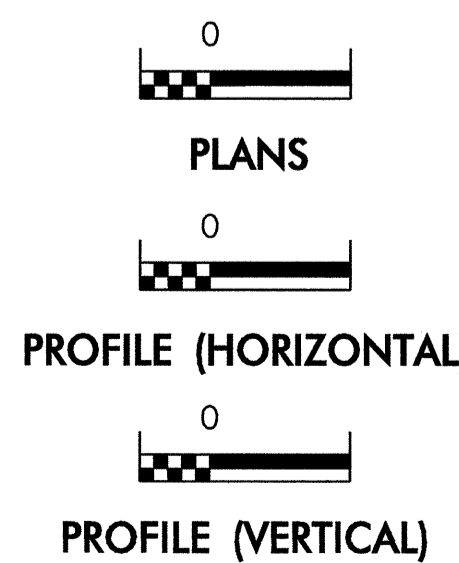
Std. #	Description	Symbol
	Streambank Reforestation.....	
1630.03	Temporary Silt Ditch.....	
1630.05	Temporary Diversion.....	
1605.01	Temporary Silt Fence.....	
1606.01	Special Sediment Control Fence.....	
1622.01	Temporary Berms and Slope Drains.....	
1630.01	Riser Basin.....	
1630.02	Silt Basin Type 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	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



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

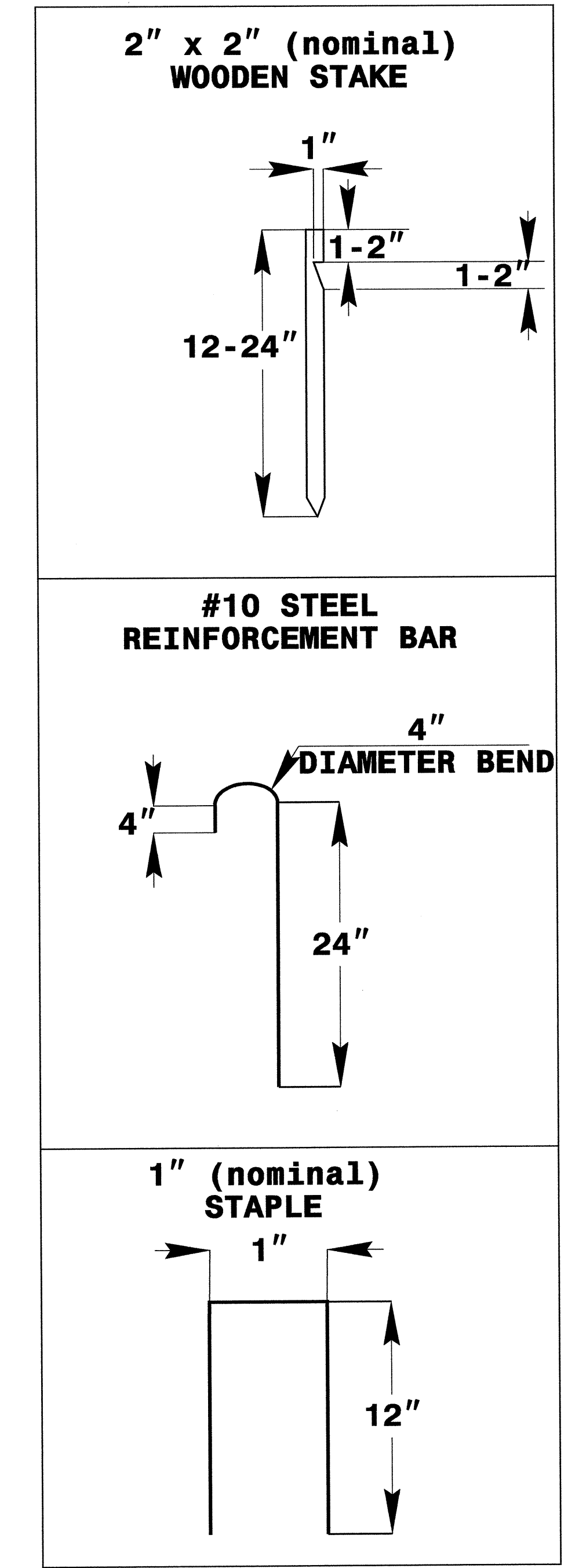
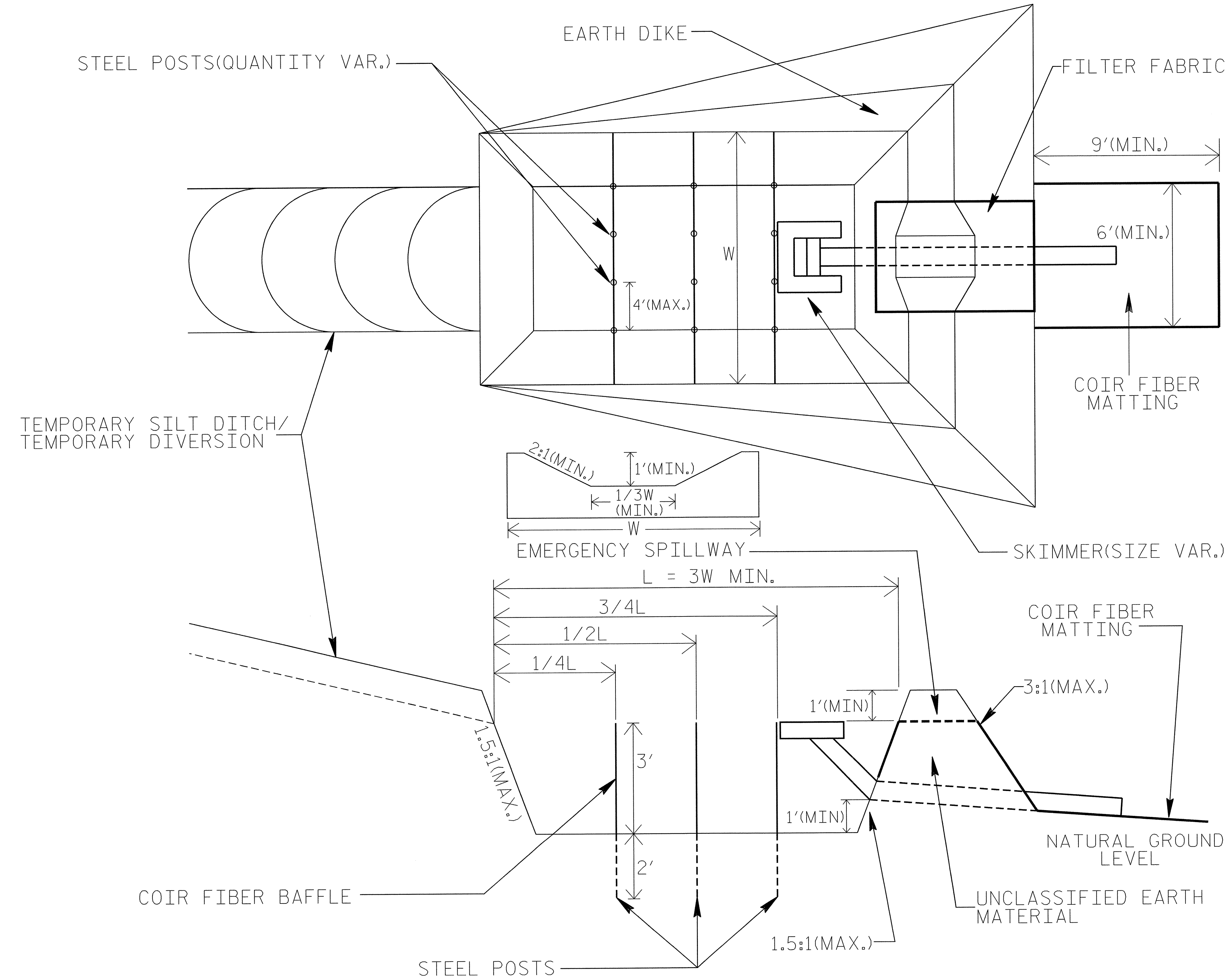
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1607.01 Gravel Construction Entrance	1632.01 Rock Inlet Sediment Trap Type A
1622.01 Temporary Berms and Slope Drains	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

r:\projects\01-07-2007\112
 r:\projects\01-07-2007\112\design\3705_r_eu.ec.tsh.dgn
 11/27/07 10:47 AM
 11/27/07 10:47 AM

SKIMMER BASIN WITH BAFFLES DETAIL

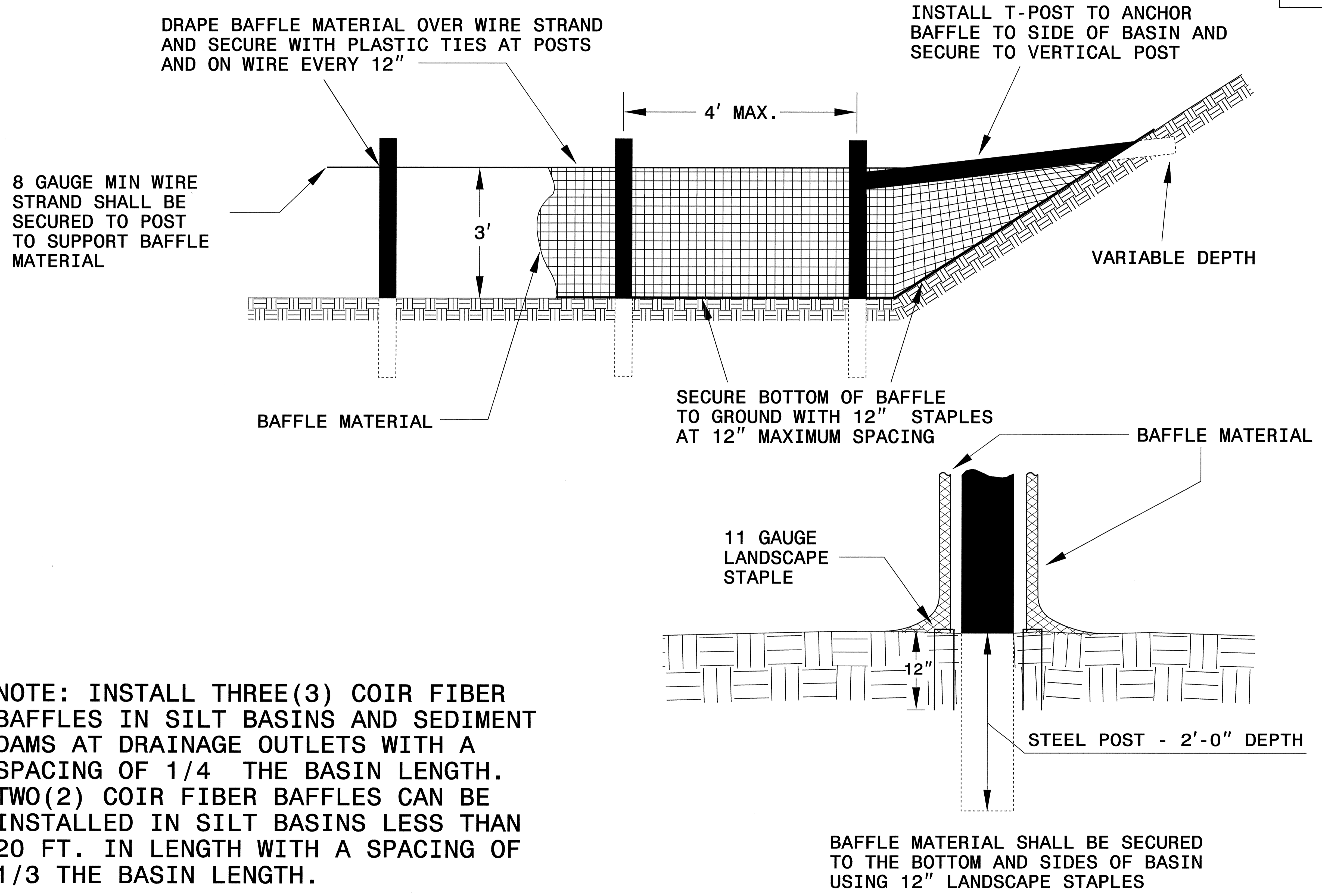
PROJECT REFERENCE NO. B-3705	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

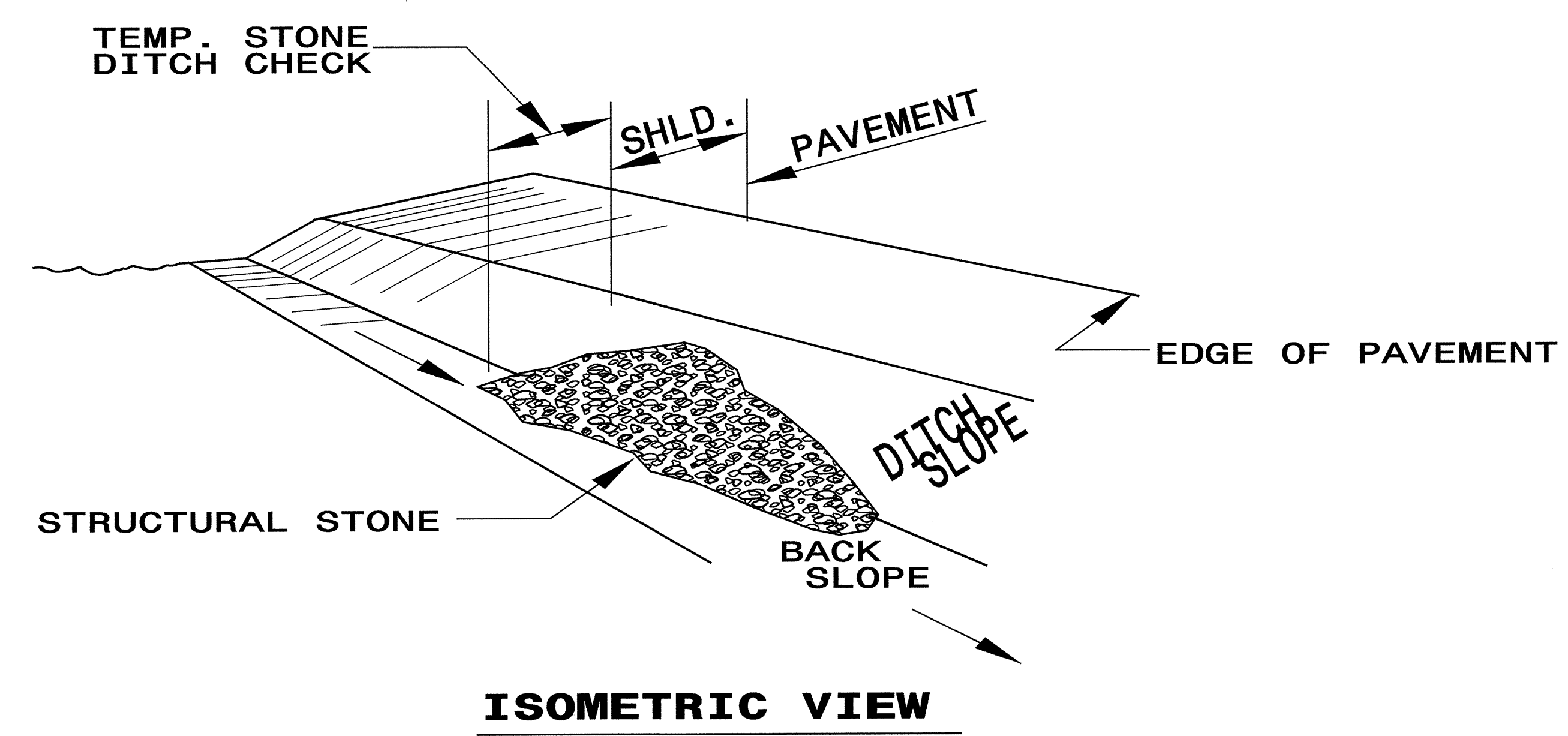
PROJECT REFERENCE NO. B-3705	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



PROJECT REFERENCE NO. <i>B-3705</i>	SHEET NO. <i>EC-2B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

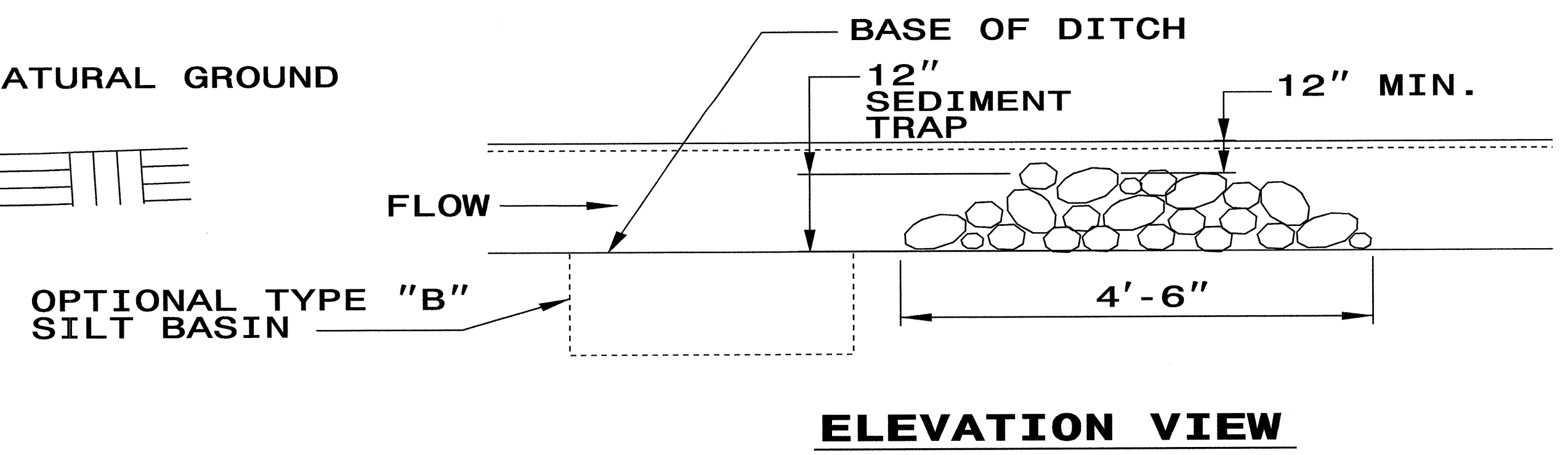
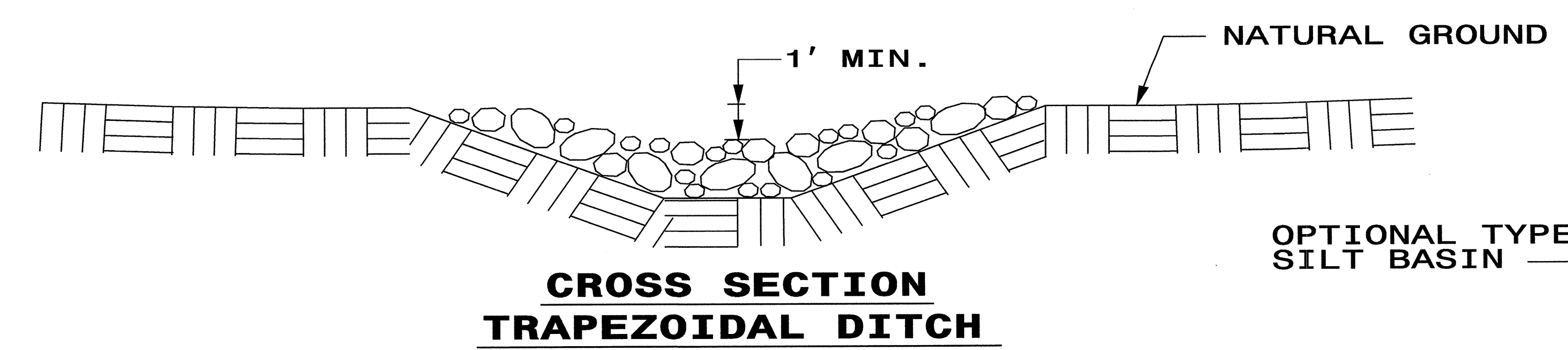
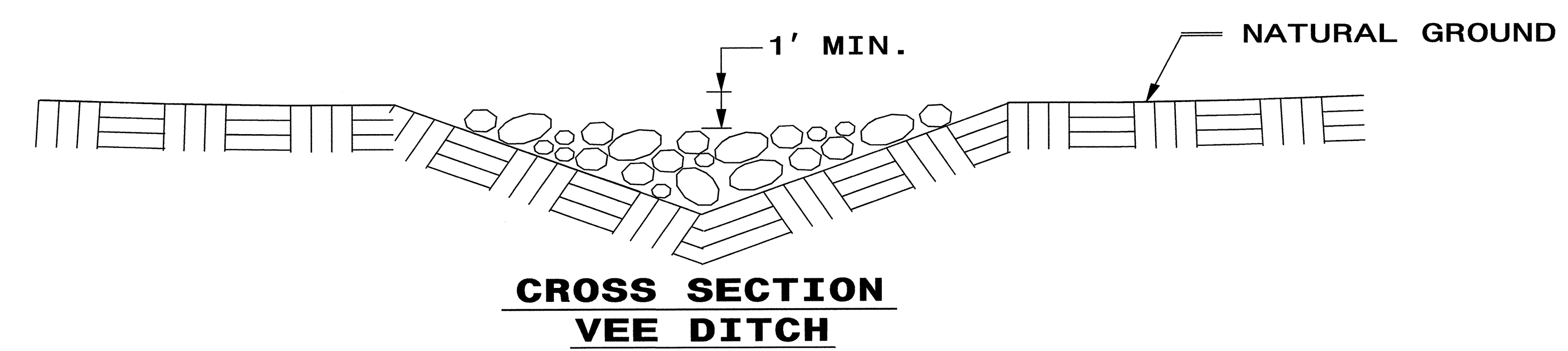
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

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

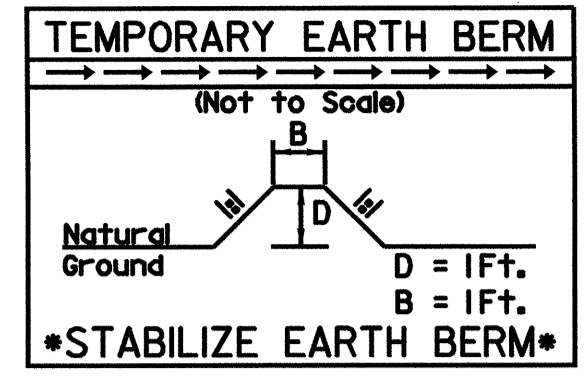
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



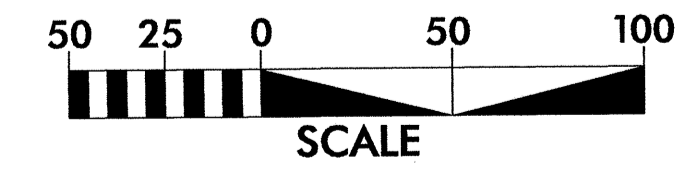
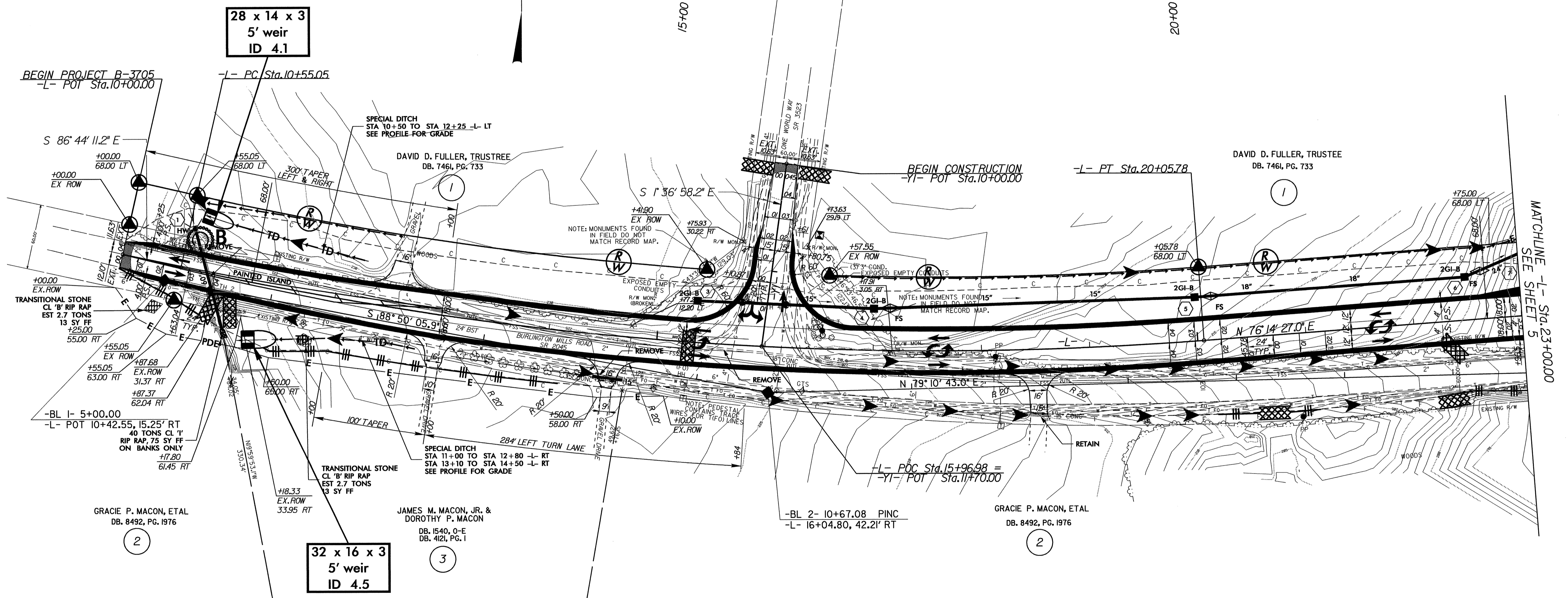
PROJECT REFERENCE NO.	SHEET NO.
B-3705	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



-L-
 $PI = 15+33.94$
 $\Delta = 17^{\circ}01'21.8" (LT)$
 $D = 1^{\circ}47'25.8"$
 $L = 950.73'$
 $T = 478.89'$
 $R = 3,200.00'$
 $DS = 50 MPH$
 $SE = 0.04$
 $RUNOFF = 96'$



MATCHLINE -L- STA. 23+00.00
SEE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
B-3705	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

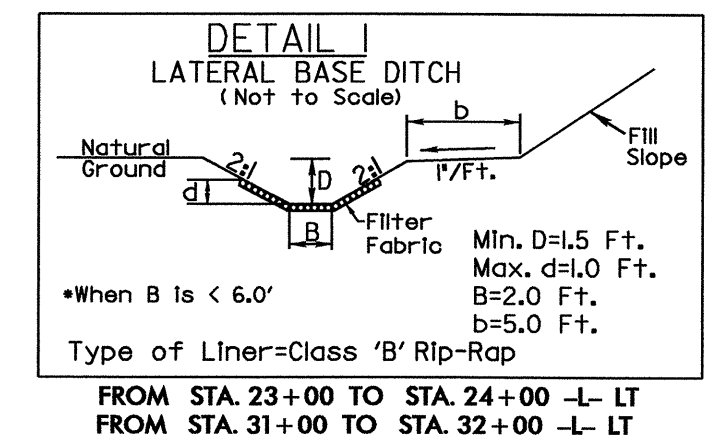
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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

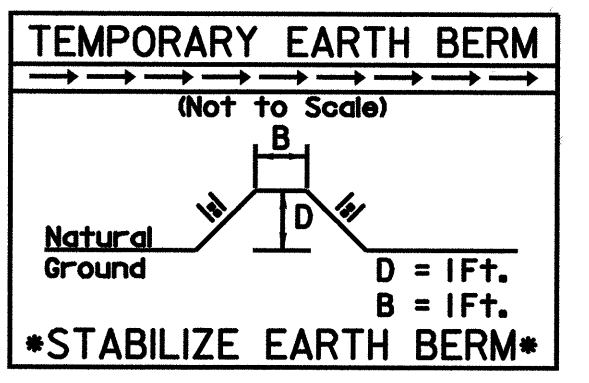
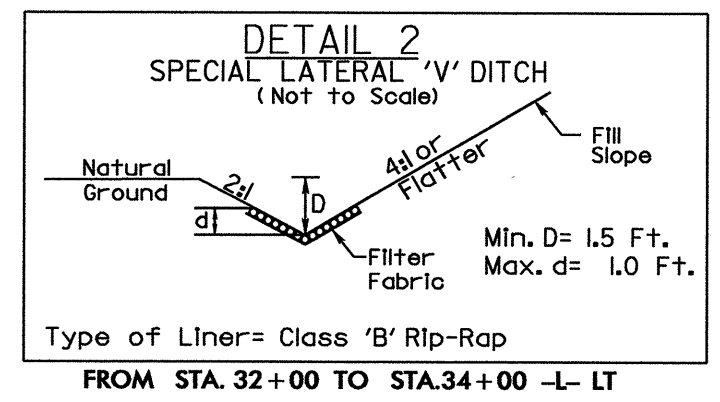
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

74 x 24 x 3
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
8 ft. weir
ID 5.2

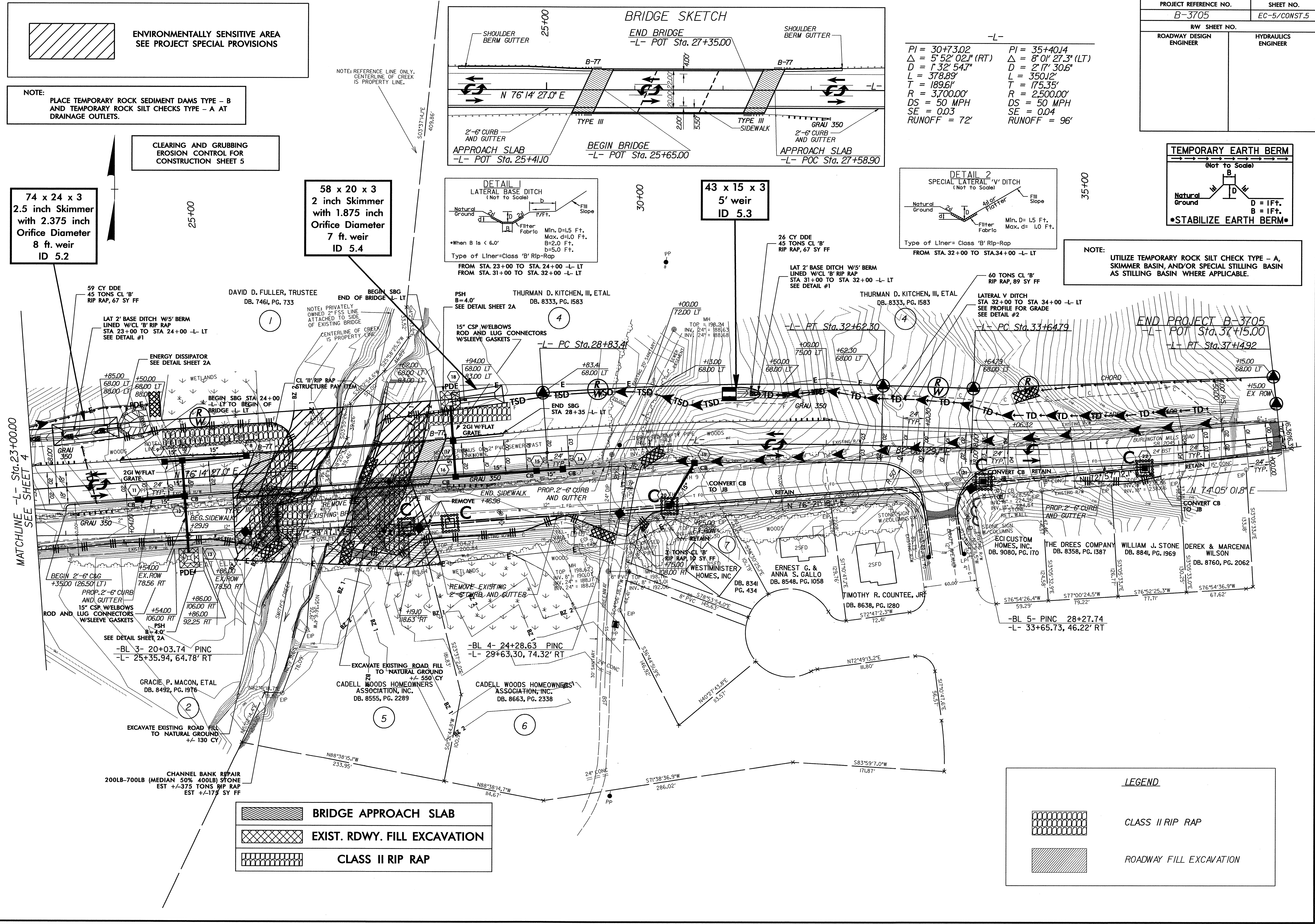
58 x 20 x 3
2 inch Skimmer
with 1.875 inch
Orifice Diameter
7 ft. weir
ID 5.4



43 x 15 x 3
5' weir
ID 5.3



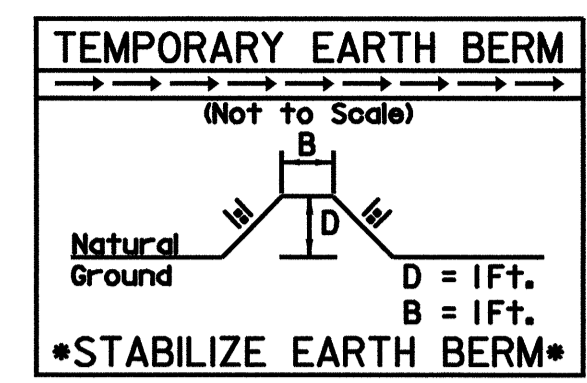
NOTE:
UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A,
SKIMMER BASIN, AND/OR SPECIAL STILLING BASIN
AS STILLING BASIN WHERE APPLICABLE.



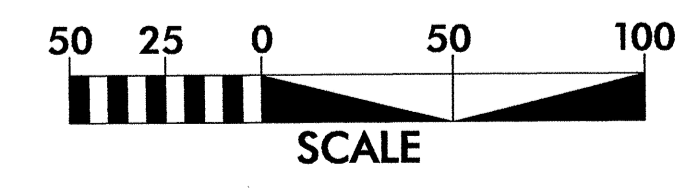
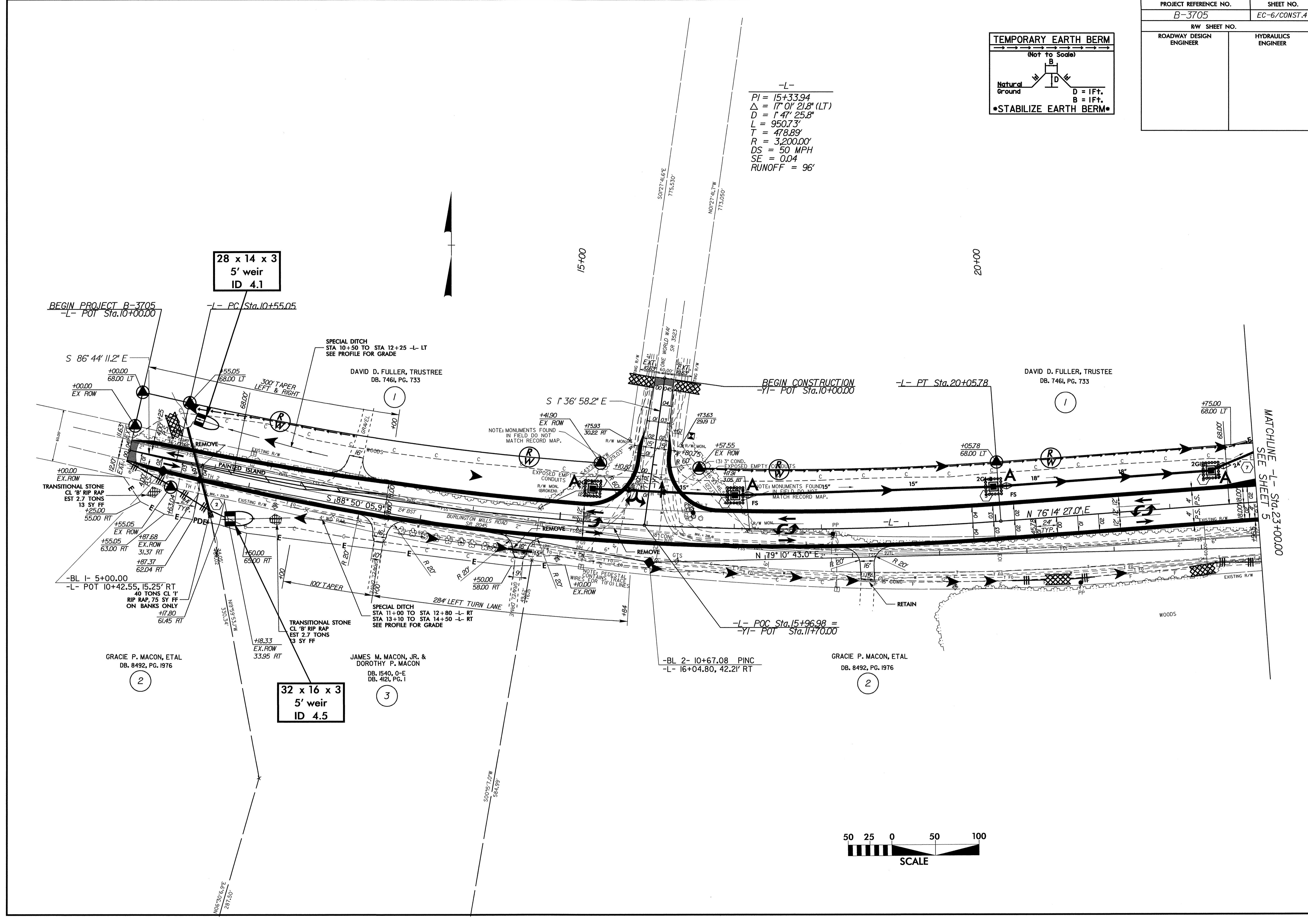
LEGEND

	BRIDGE APPROACH SLAB
	EXIST. RDWY. FILL EXCAVATION
	CLASS II RIP RAP
	ROADWAY FILL EXCAVATION

PROJECT REFERENCE NO.	SHEET NO.
B-3705	EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

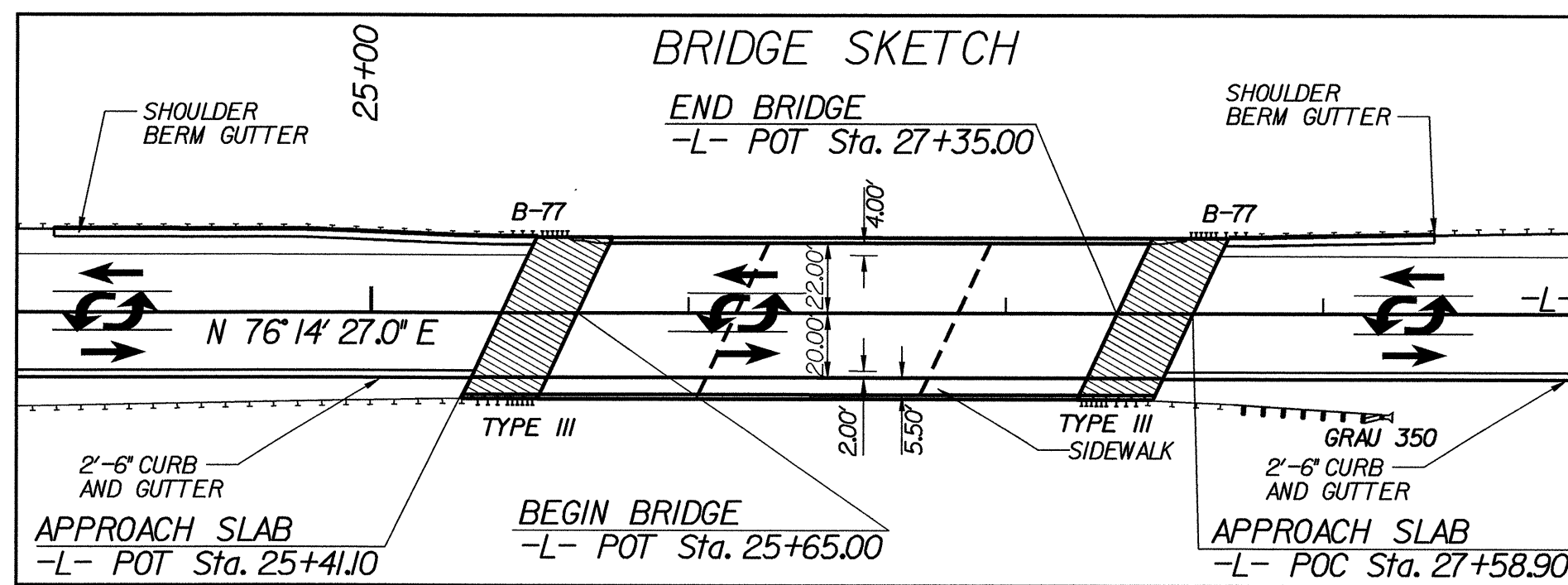


-L-
 PI = 15+33.94
 Δ = 17° 01' 21.8" (LT)
 D = 1' 47" 25.8"
 L = 950.73'
 T = 478.89'
 R = 3,200.00'
 DS = 50 MPH
 SE = 0.04
 RUNOFF = 96'

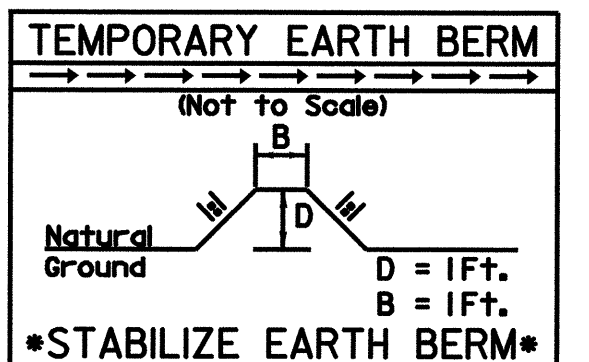


MATCHLINE -L- STA. 23+00.00
SEE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
B-3705	EC-7/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

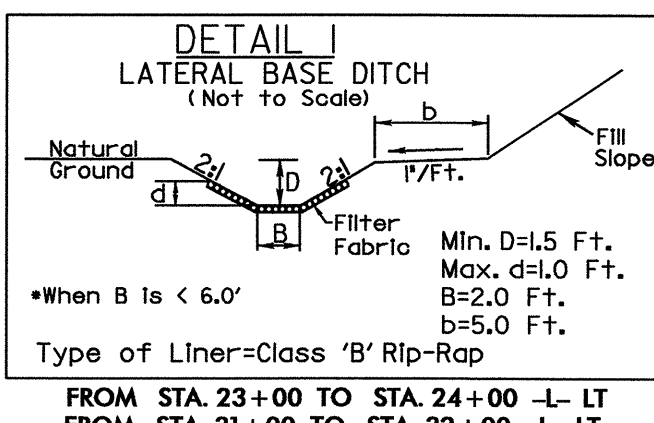


-L-
 $PI = 30+73.02$ $PI = 35+40.14$
 $\Delta = 5'52''02.1'' (RT)$ $\Delta = 8'01''27.3'' (LT)$
 $D = 1'32''54.7''$ $D = 2'17''30.6''$
 $L = 378.89'$ $L = 350.12'$
 $T = 189.61'$ $T = 175.35'$
 $R = 3,700.00'$ $R = 2,500.00'$
 $DS = 50 MPH$ $DS = 50 MPH$
 $SE = 0.03$ $SE = 0.04$
 $RUNOFF = 72'$ $RUNOFF = 96'$

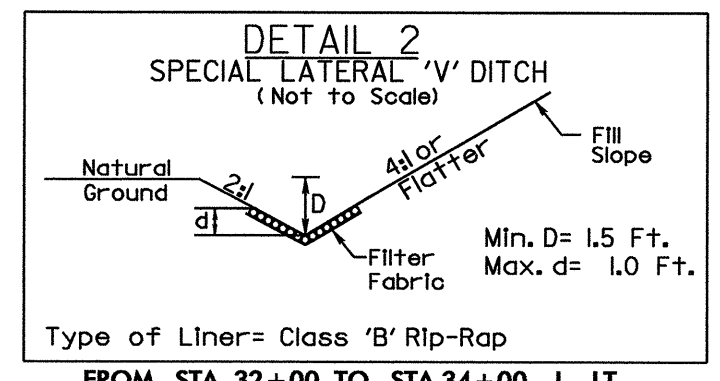


74 x 24 x 3
 2.5 inch Skimmer
 with 2.375 inch
 Orifice Diameter
 8 ft. weir
 ID 5.2

58 x 20 x 3
 2 inch Skimmer
 with 1.875 inch
 Orifice Diameter
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43 x 15 x 3
 5' weir
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