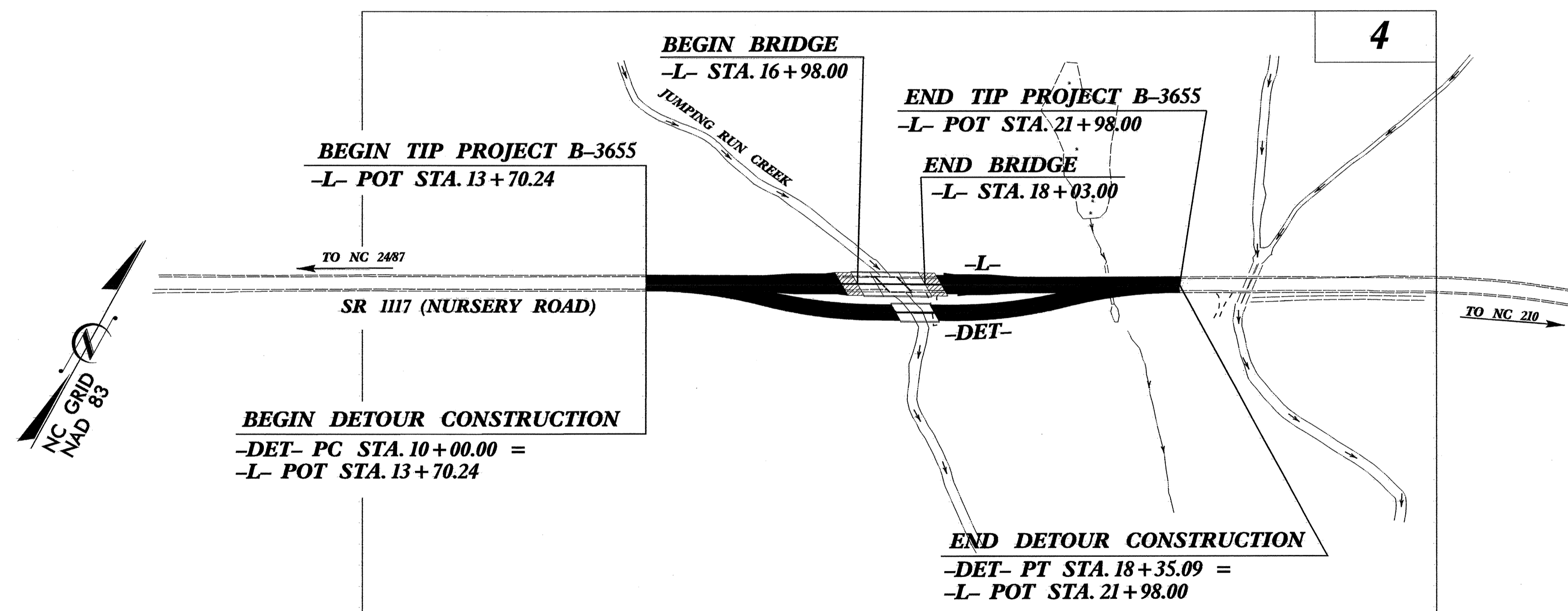


**TIP PROJECT: B-3655**

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

**LOCATION: BRIDGE NO. 59 OVER JUMPING RUN CREEK  
 ON SR 1117 (NURSERY ROAD)**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING &  
 STRUCTURE**



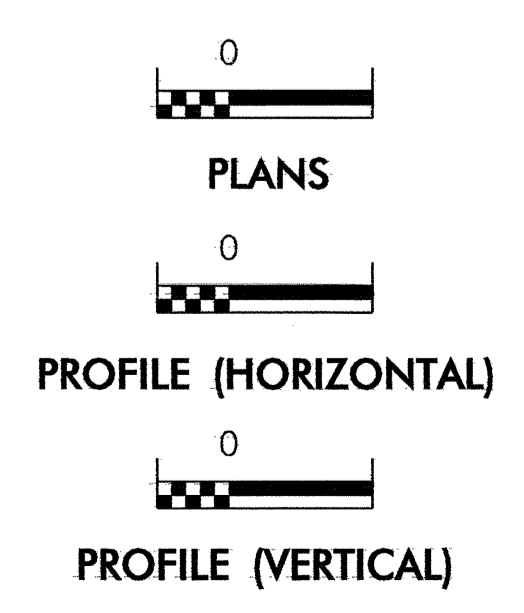
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3655	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TBD
1630.01	Riser Basin	RB
	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-B	TRSCB
	Wattle	W
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

**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**

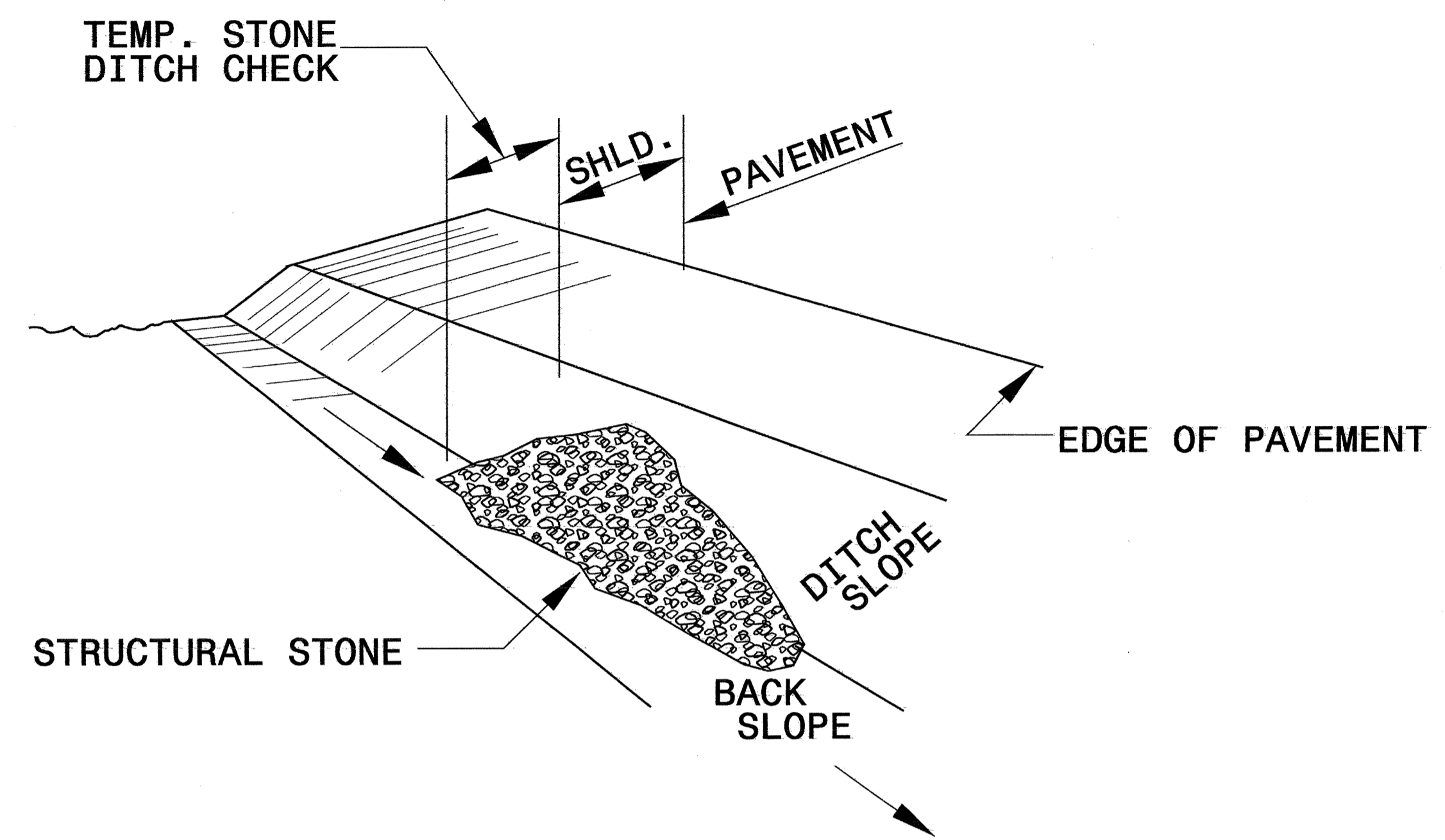
Roadway Standard Drawings

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
1606.01 Special Sediment Control Fence	1633.01 Temporary Rock Silt Check Type A
1607.01 Gravel Construction Entrance	
1622.01 Temporary Berms and Slope Drains	
1630.03 Temporary Silt Ditch	
1630.05 Temporary Diversion	

PROJECT REFERENCE NO. <i>B-3655</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

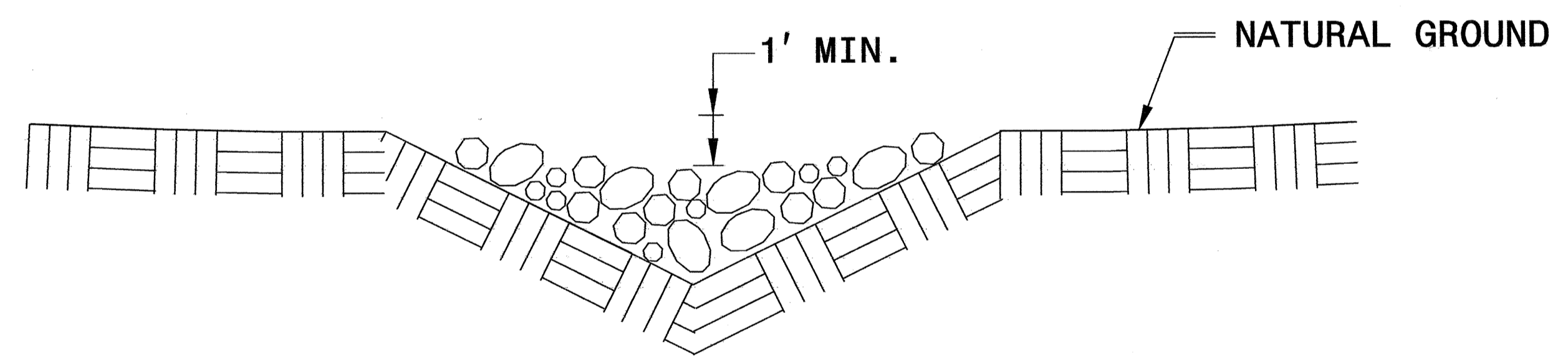


**ISOMETRIC VIEW**

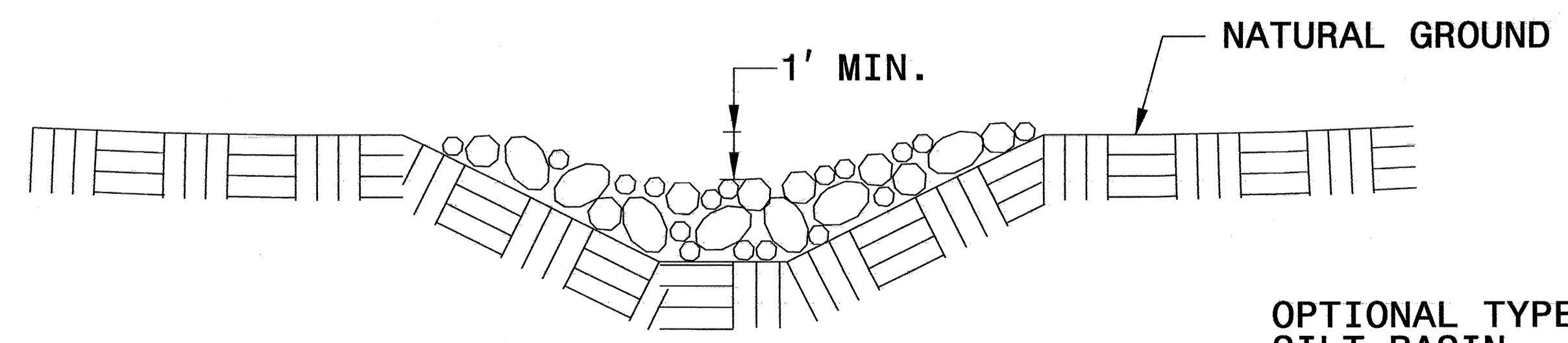
**NOTES:**

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

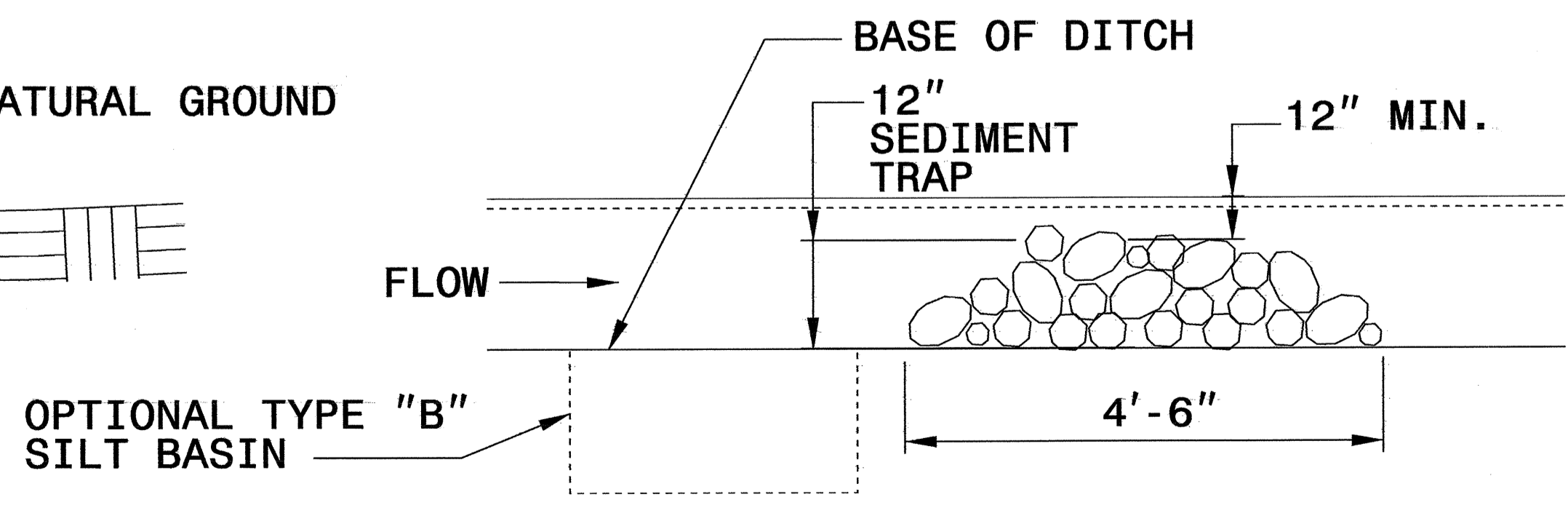
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION  
VEE DITCH**



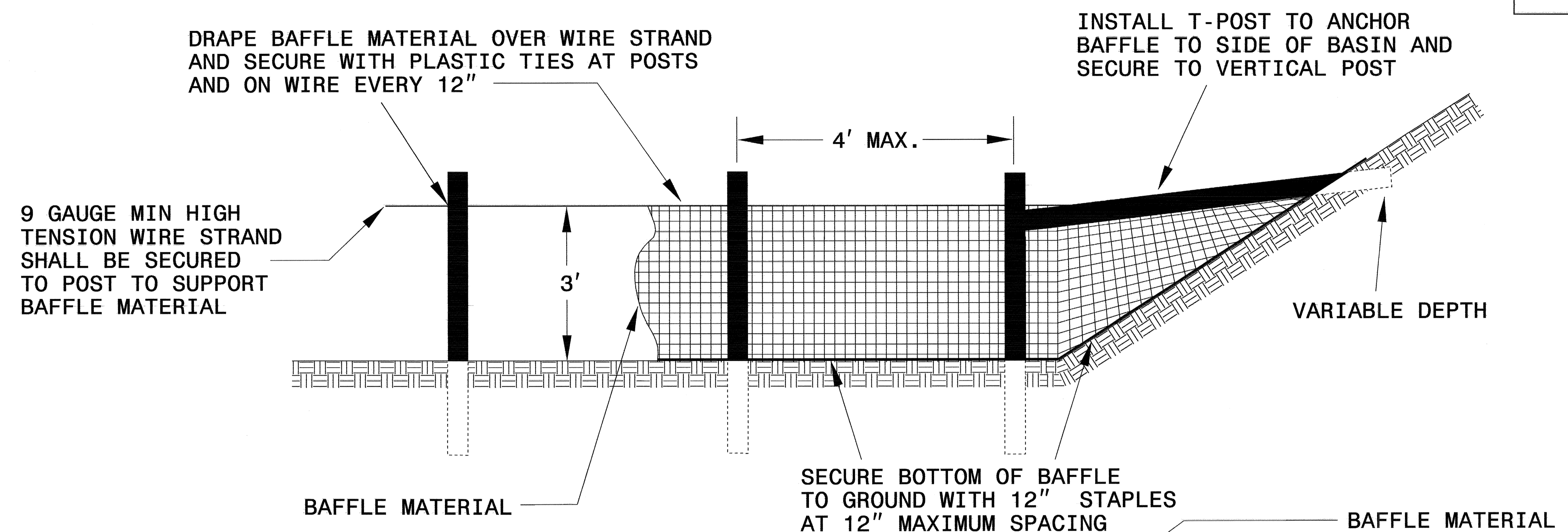
**CROSS SECTION  
TRAPEZOIDAL DITCH**



**ELEVATION VIEW**

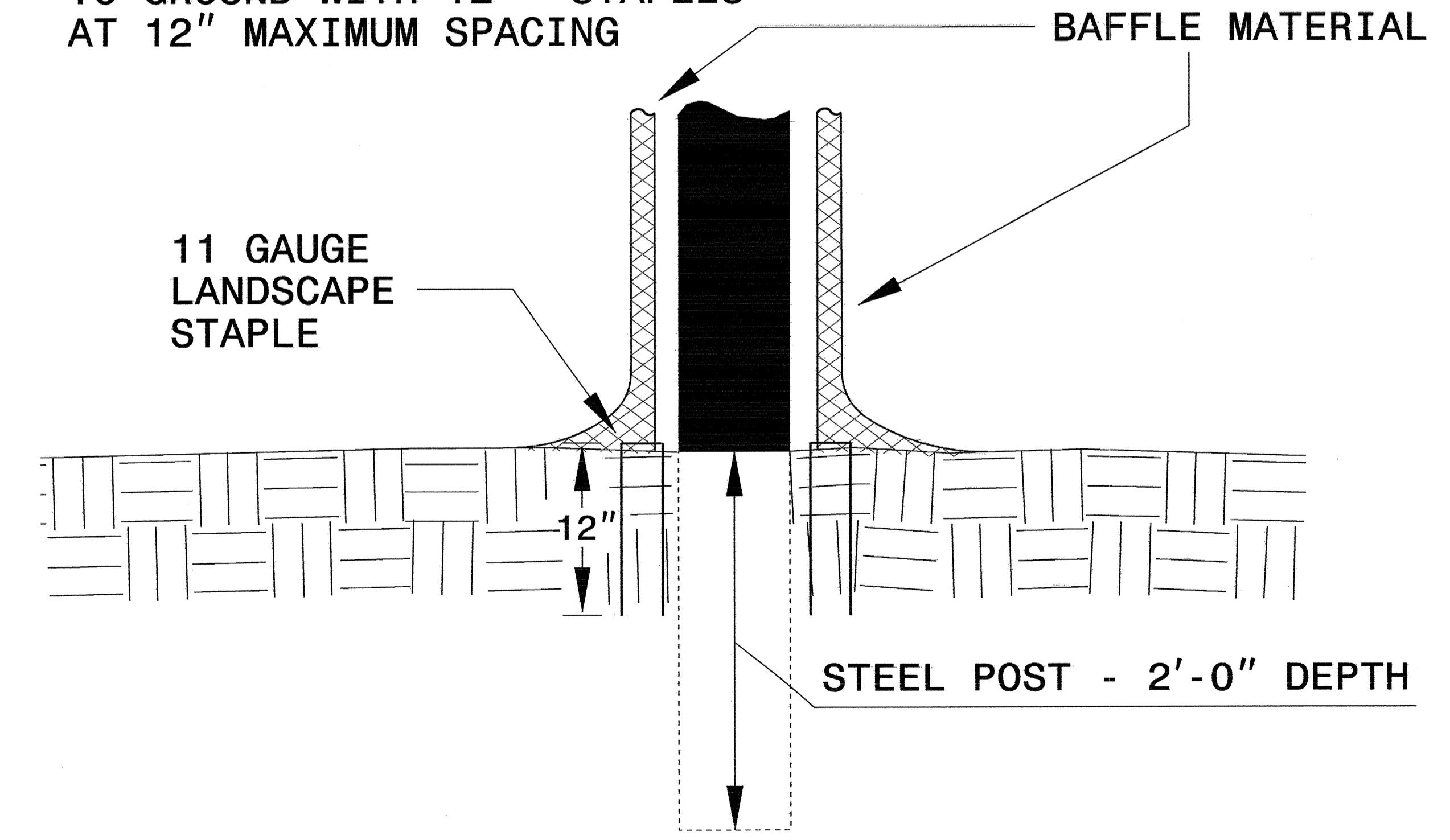
PROJECT REFERENCE NO. B-3655	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL



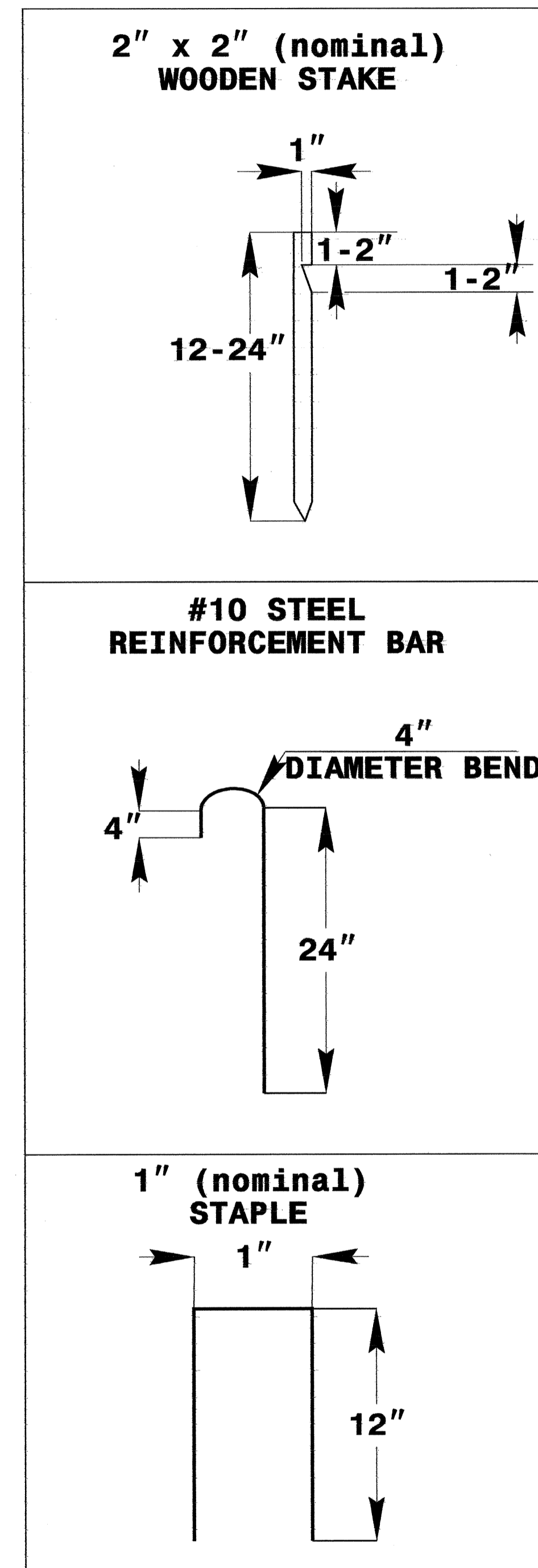
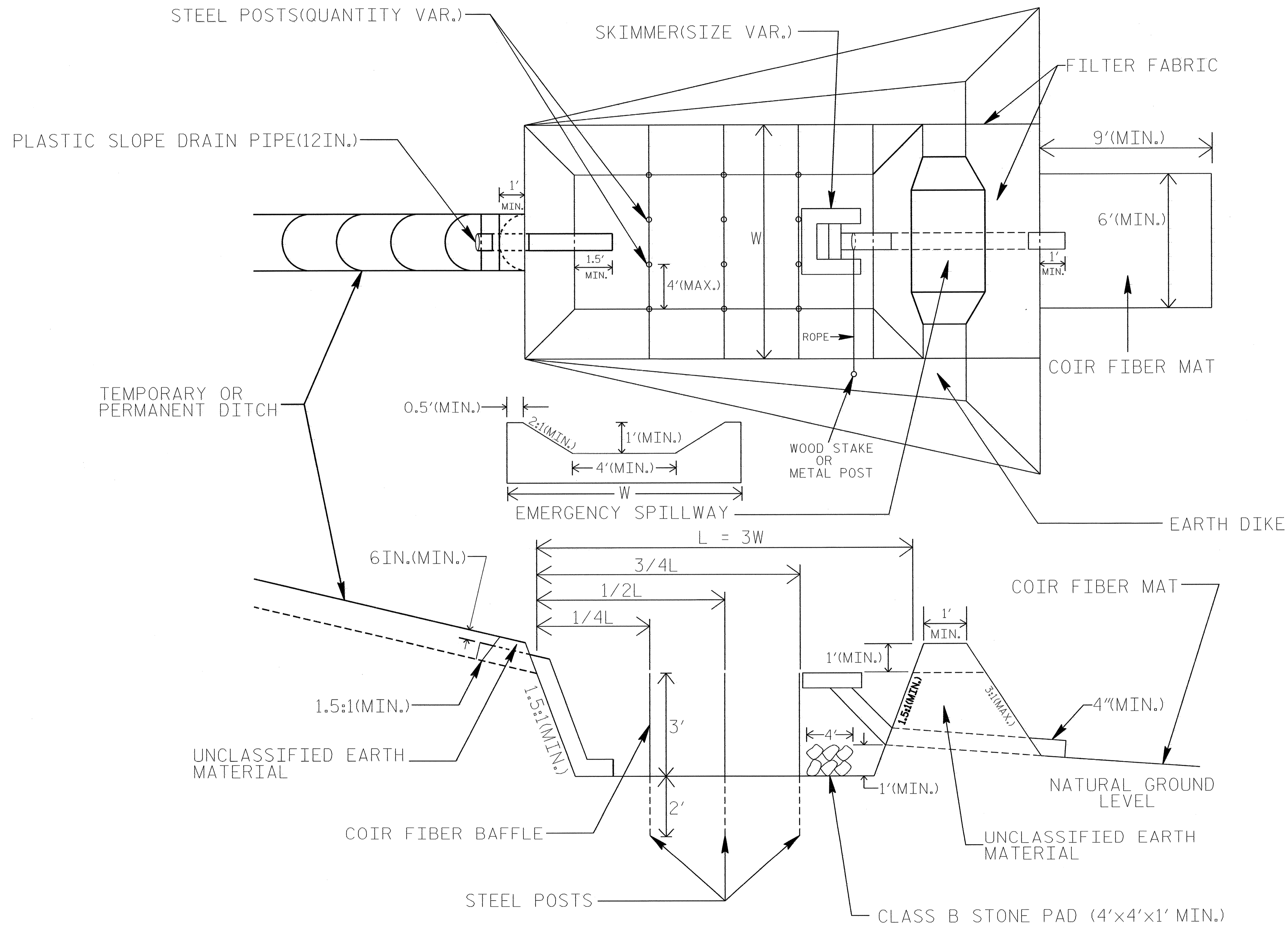
**NOTES:**

1. 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.
2. 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.
3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.



# SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. B-3655	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 INTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO BASIN.

NOT TO SCALE

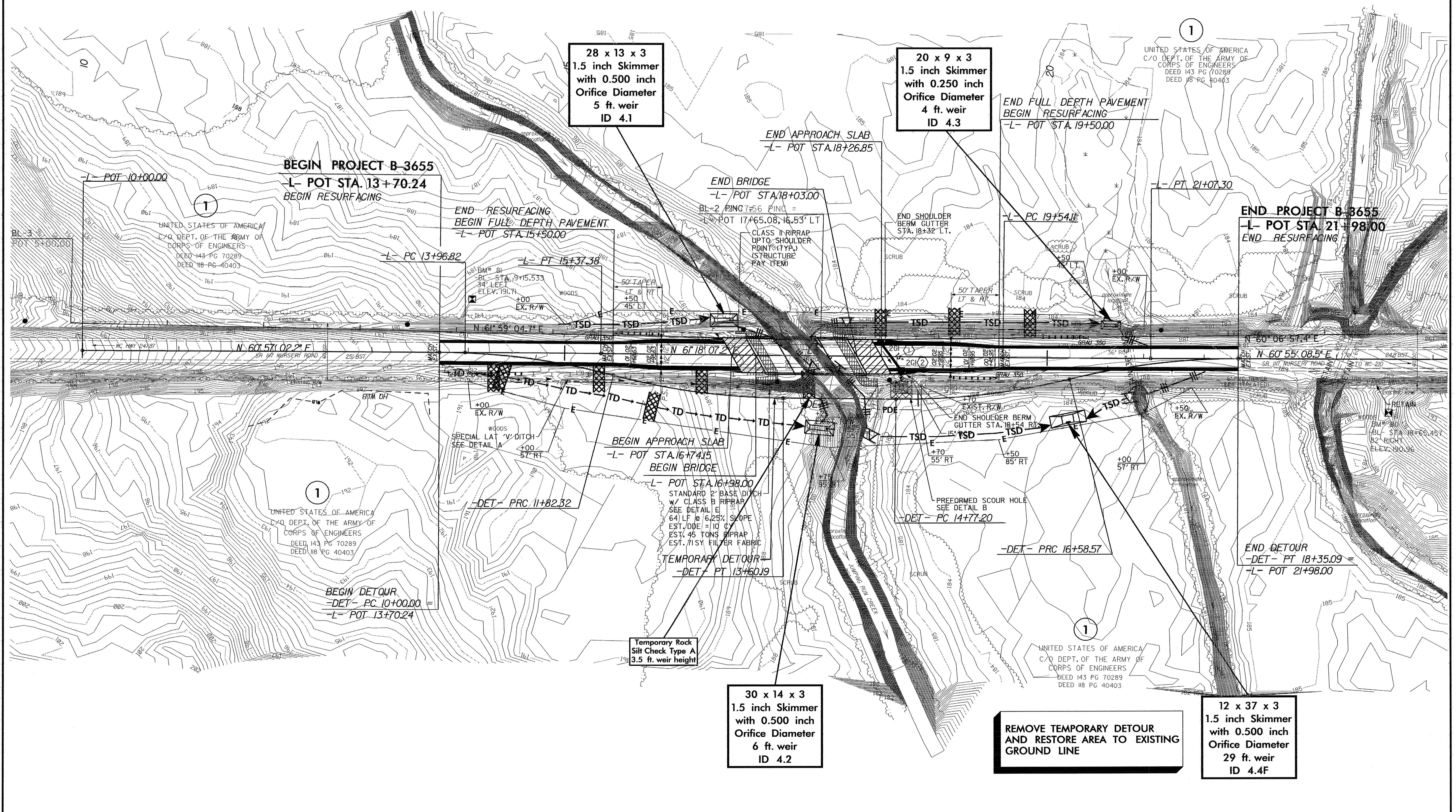


PROJECT REFERENCE NO.		SHEET NO.	
B-3655		EC-04/CONST.04	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

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 04

NOTE:  
UTILIZE SKIMMER BASIN AS STILLING  
BASIN WHERE APPLICABLE.



28 x 13 x 3  
1.5 inch Skimmer  
with 0.500 inch  
Orifice Diameter  
5 ft. weir  
ID 4.1

20 x 9 x 3  
1.5 inch Skimmer  
with 0.250 inch  
Orifice Diameter  
4 ft. weir  
ID 4.3

30 x 14 x 3  
1.5 inch Skimmer  
with 0.500 inch  
Orifice Diameter  
6 ft. weir  
ID 4.2

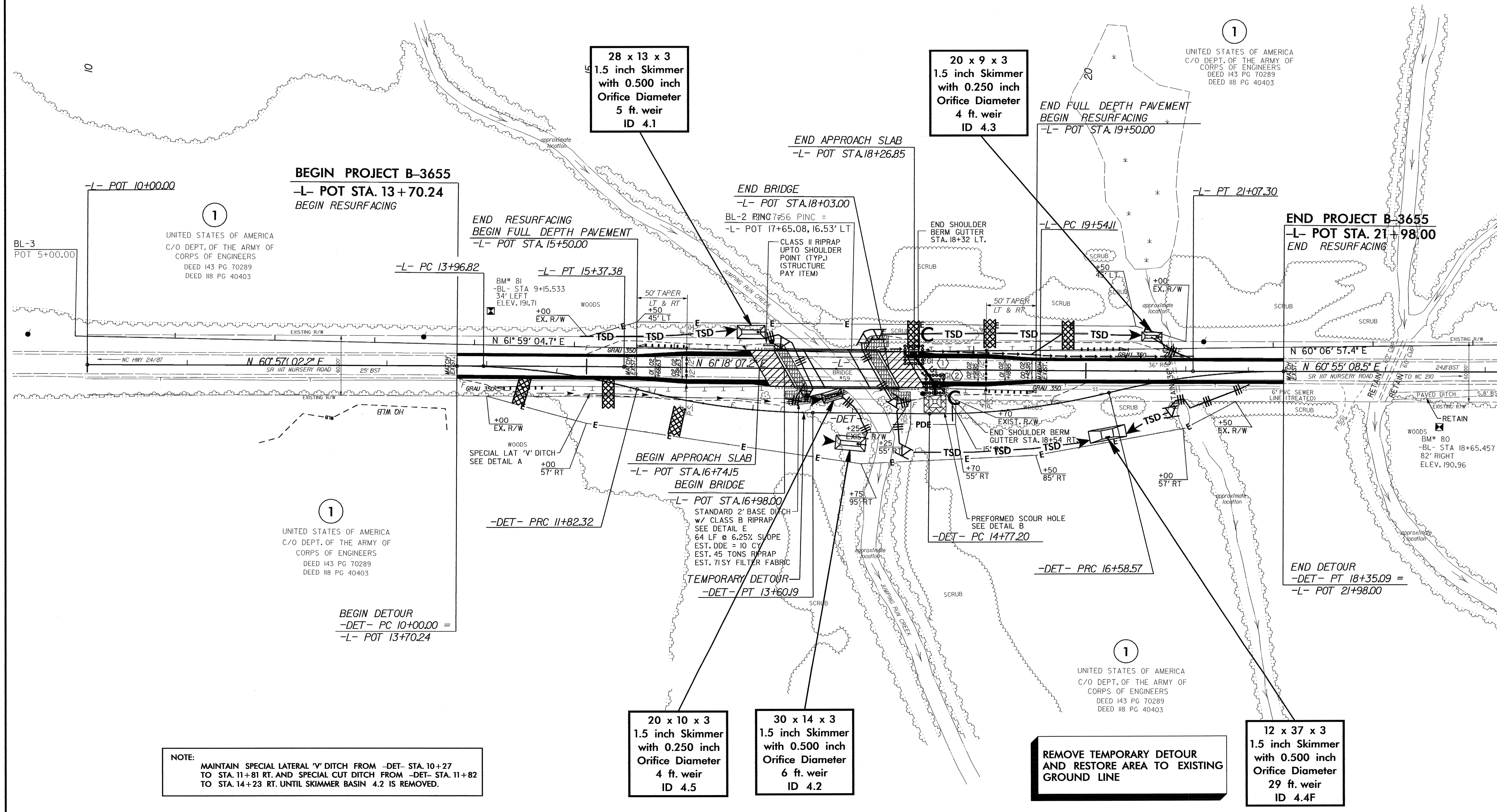
12 x 37 x 3  
1.5 inch Skimmer  
with 0.500 inch  
Orifice Diameter  
29 ft. weir  
ID 4.4F

REMOVE TEMPORARY DETOUR  
AND RESTORE AREA TO EXISTING  
GROUND LINE

Temporary Rock  
Silt Check Type A  
3.5 ft. weir height

PROJECT REFERENCE NO. B-3655	SHEET NO. EC-05/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:  
UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.



NOTE:  
MAINTAIN SPECIAL LATERAL 'V' DITCH FROM -DET- STA. 10+27 TO STA. 11+81 RT. AND SPECIAL CUT DITCH FROM -DET- STA. 11+82 TO STA. 14+23 RT. UNTIL SKIMMER BASIN 4.2 IS REMOVED.

REMOVE TEMPORARY DETOUR AND RESTORE AREA TO EXISTING GROUND LINE

12 x 37 x 3  
1.5 inch Skimmer  
with 0.500 inch  
Orifice Diameter  
29 ft. weir  
ID 4.4F

20 x 10 x 3  
1.5 inch Skimmer  
with 0.250 inch  
Orifice Diameter  
4 ft. weir  
ID 4.5

30 x 14 x 3  
1.5 inch Skimmer  
with 0.500 inch  
Orifice Diameter  
6 ft. weir  
ID 4.2

1  
UNITED STATES OF AMERICA  
C/O DEPT. OF THE ARMY OF  
CORPS OF ENGINEERS  
DEED 143 PG 70289  
DEED 118 PG 40403

1

1

1

BEGIN PROJECT B-3655  
-L- POT STA. 13+70.24  
BEGIN RESURFACING

END RESURFACING  
BEGIN FULL DEPTH PAVEMENT  
-L- POT STA. 15+50.00

END APPROACH SLAB  
-L- POT STA. 18+26.85

END BRIDGE  
-L- POT STA. 18+03.00  
BL-2 PING 7#56 PINC =  
-L- POT 17+65.08, 16.53' LT

END FULL DEPTH PAVEMENT  
BEGIN RESURFACING  
-L- POT STA. 19+50.00

END PROJECT B-3655  
-L- POT STA. 21+98.00  
END RESURFACING

BEGIN DETOUR  
-DET- PC 10+00.00 =  
-L- POT 13+70.24

BEGIN APPROACH SLAB  
-L- POT STA. 16+74.15  
BEGIN BRIDGE

L- POT STA. 16+98.00  
STANDARD 2' BASE DITCH  
W/ CLASS B RIPRAP  
SEE DETAIL E  
64 LF @ 6.25% SLOPE  
EST. DDE = 10 CY  
EST. 45 TONS RIPRAP  
EST. 71 SY FILTER FABRIC

TEMPORARY DETOUR  
-DET- PT 13+60.19

-DET- PC 14+77.20

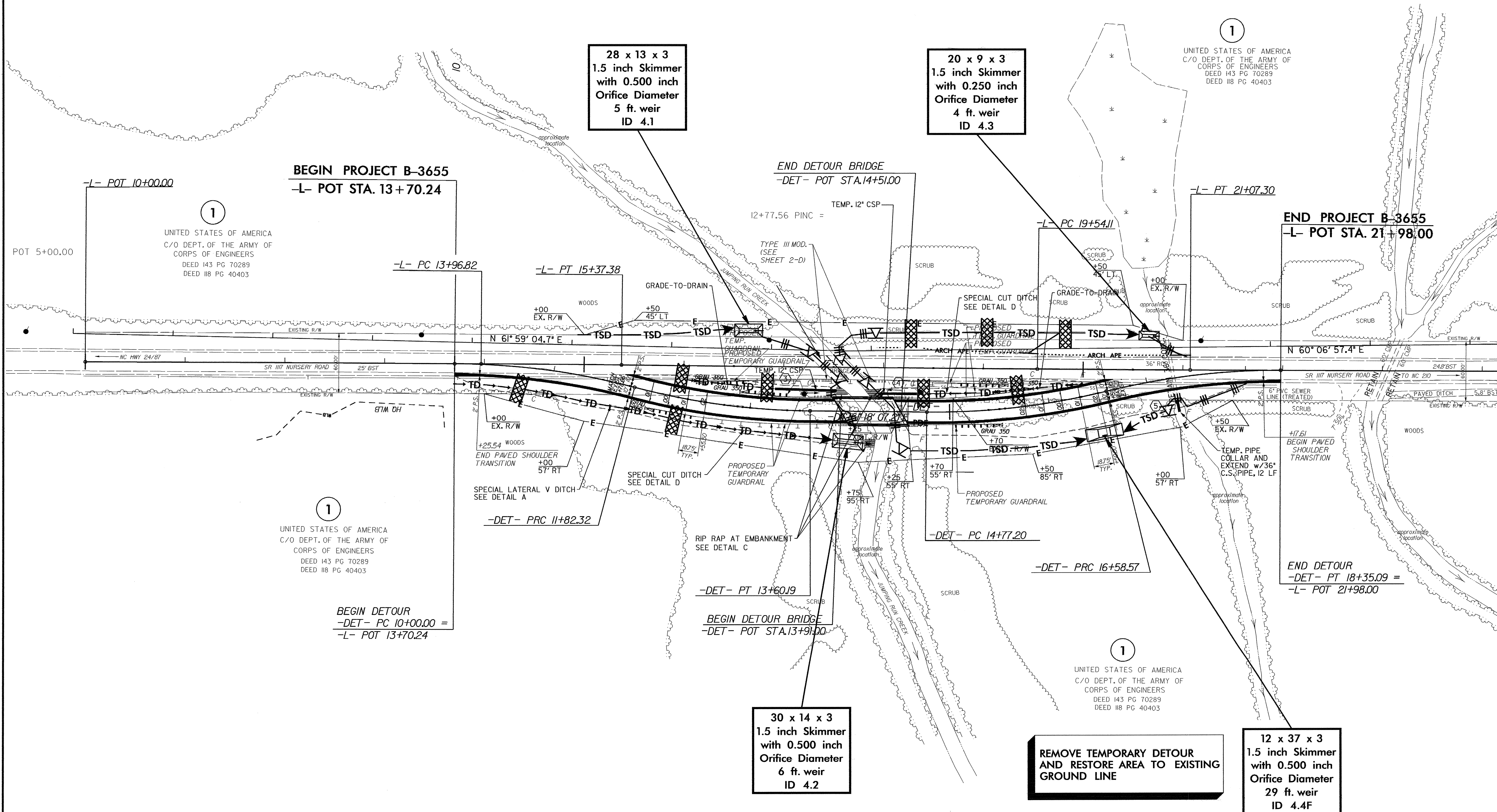
-DET- PRC 16+58.57

END DETOUR  
-DET- PT 18+35.09 =  
-L- POT 21+98.00

PROJECT REFERENCE NO.	SHEET NO.
B-3655	EC-06/CONST.2-B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:  
UTILIZE SKIMMER BASIN AS STILLING  
BASIN WHERE APPLICABLE.

# DETOUR



**BEGIN PROJECT B-3655**  
-L- POT STA. 13+70.24

1  
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DEED 118 PG 40403

28 x 13 x 3  
1.5 inch Skimmer  
with 0.500 inch  
Orifice Diameter  
5 ft. weir  
ID 4.1

20 x 9 x 3  
1.5 inch Skimmer  
with 0.250 inch  
Orifice Diameter  
4 ft. weir  
ID 4.3

1  
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DEED 118 PG 40403

**END PROJECT B-3655**  
-L- POT STA. 21+98.00

1  
UNITED STATES OF AMERICA  
C/O DEPT. OF THE ARMY OF  
CORPS OF ENGINEERS  
DEED 143 PG 70289  
DEED 118 PG 40403

**BEGIN DETOUR**  
-DET- PC 10+00.00 =  
-L- POT 13+70.24

**BEGIN DETOUR BRIDGE**  
-DET- POT STA. 13+91.00

30 x 14 x 3  
1.5 inch Skimmer  
with 0.500 inch  
Orifice Diameter  
6 ft. weir  
ID 4.2

**REMOVE TEMPORARY DETOUR  
AND RESTORE AREA TO EXISTING  
GROUND LINE**

1  
UNITED STATES OF AMERICA  
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CORPS OF ENGINEERS  
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ID 4.4F

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-DET- PT 18+35.09 =  
-L- POT 21+98.00