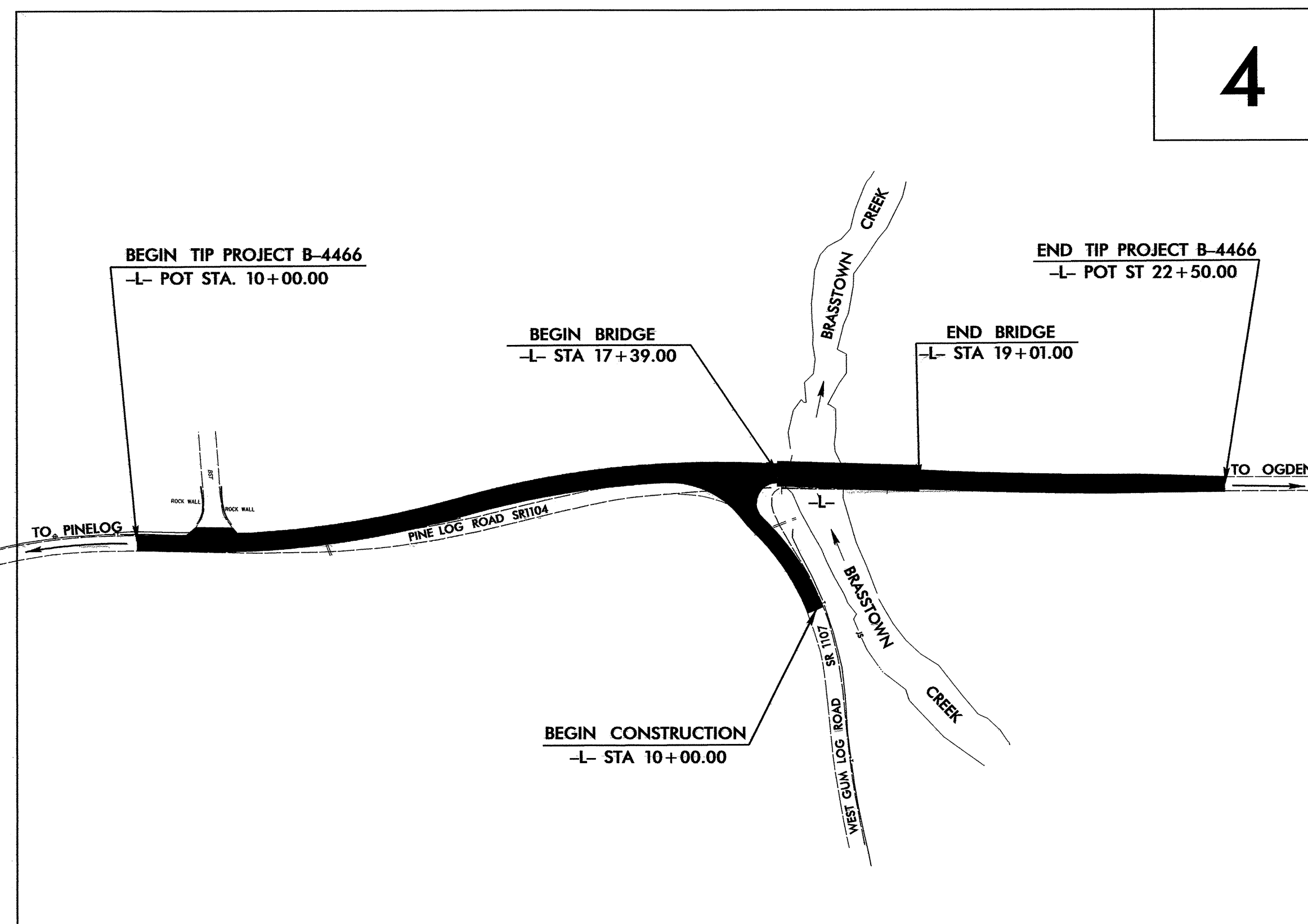
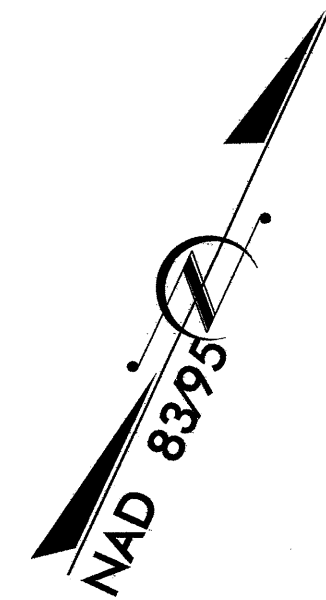


**TIP PROJECT: B-4466**

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

**LOCATION: BRIDGE 4 OVER BRASSTOWN CREEK ON SR 1104 (PINE LOG ROAD)**  
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, RESURFACING AND STRUCTURE**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4466	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

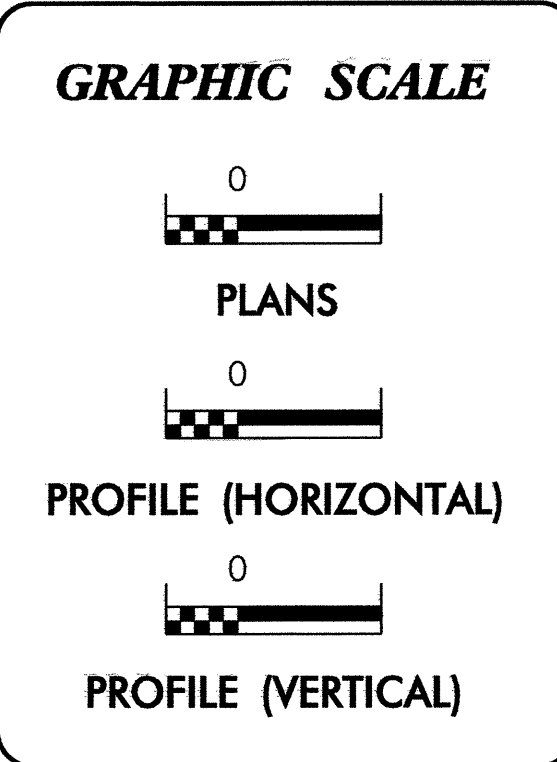
**EROSION AND SEDIMENT CONTROL MEASURES**

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	X X X X X
1622.01	Temporary Berms and Slope Drains	— T —
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	▭
	Rock Inlet Sediment Trap:	
	Type A	A
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.**

**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.*



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**

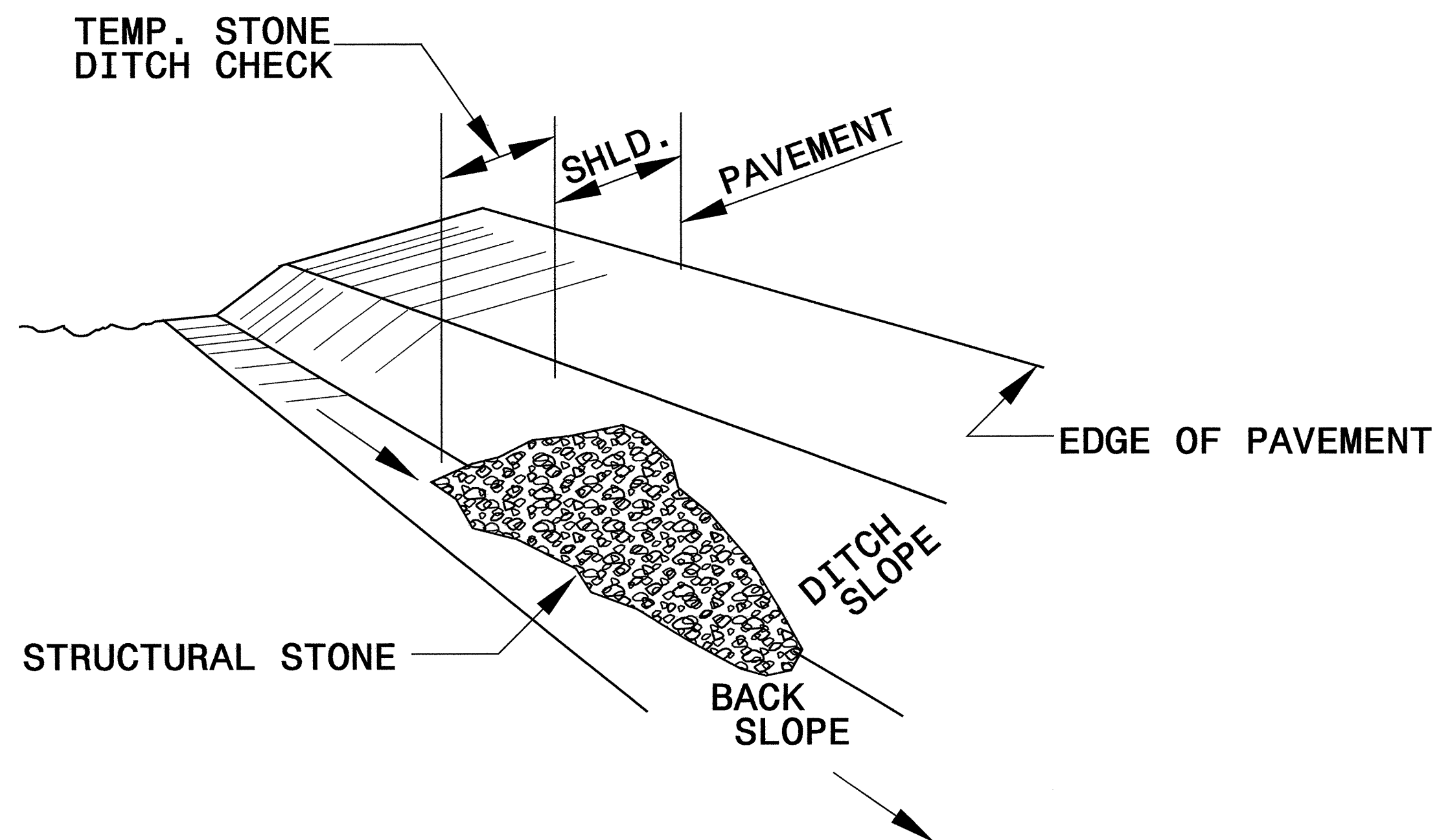
Roadway Standard Drawings

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	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	

PROJECT REFERENCE NO. B-4466	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

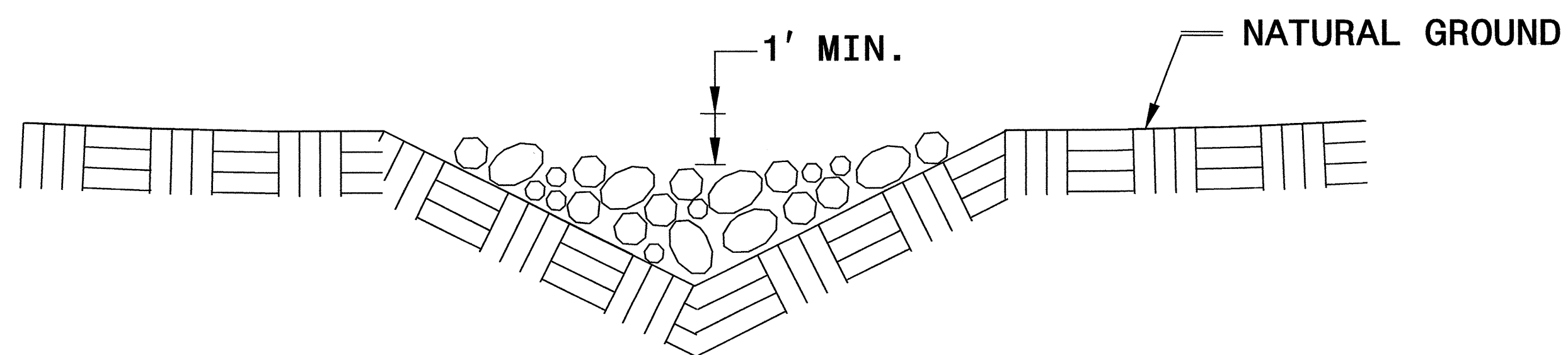


**ISOMETRIC VIEW**

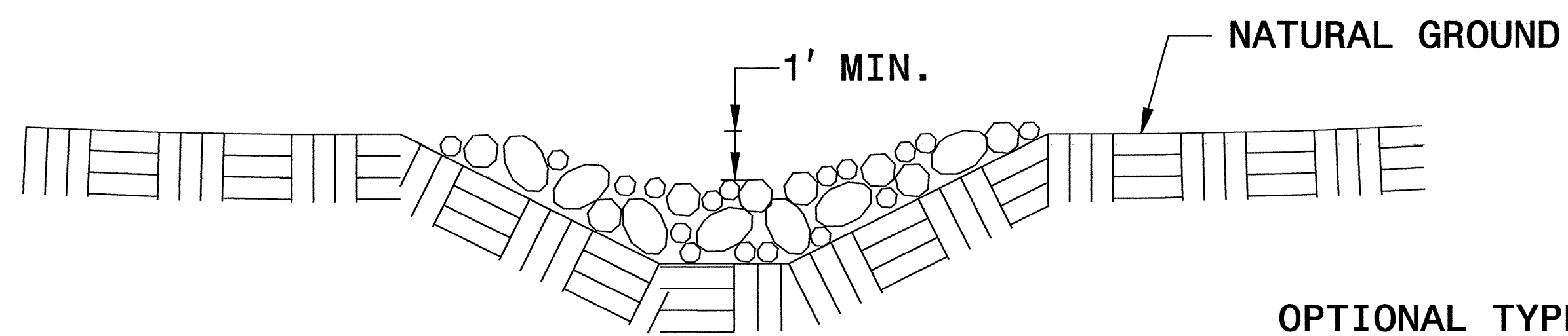
**NOTES:**

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

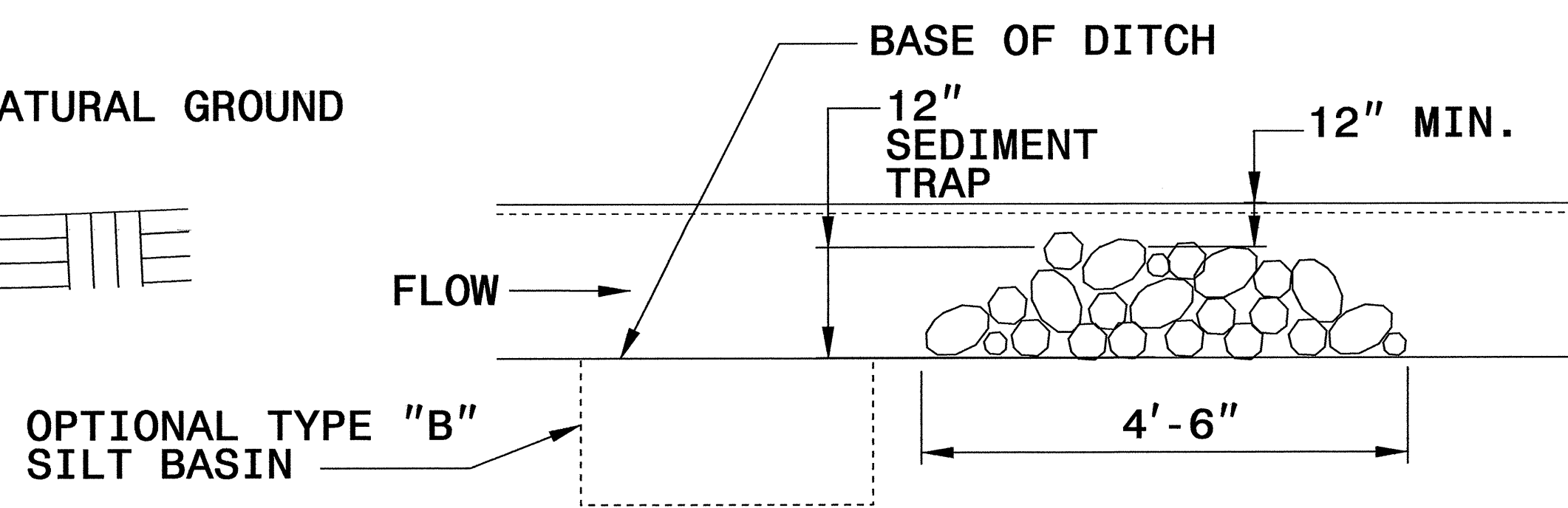
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION  
VEE DITCH**



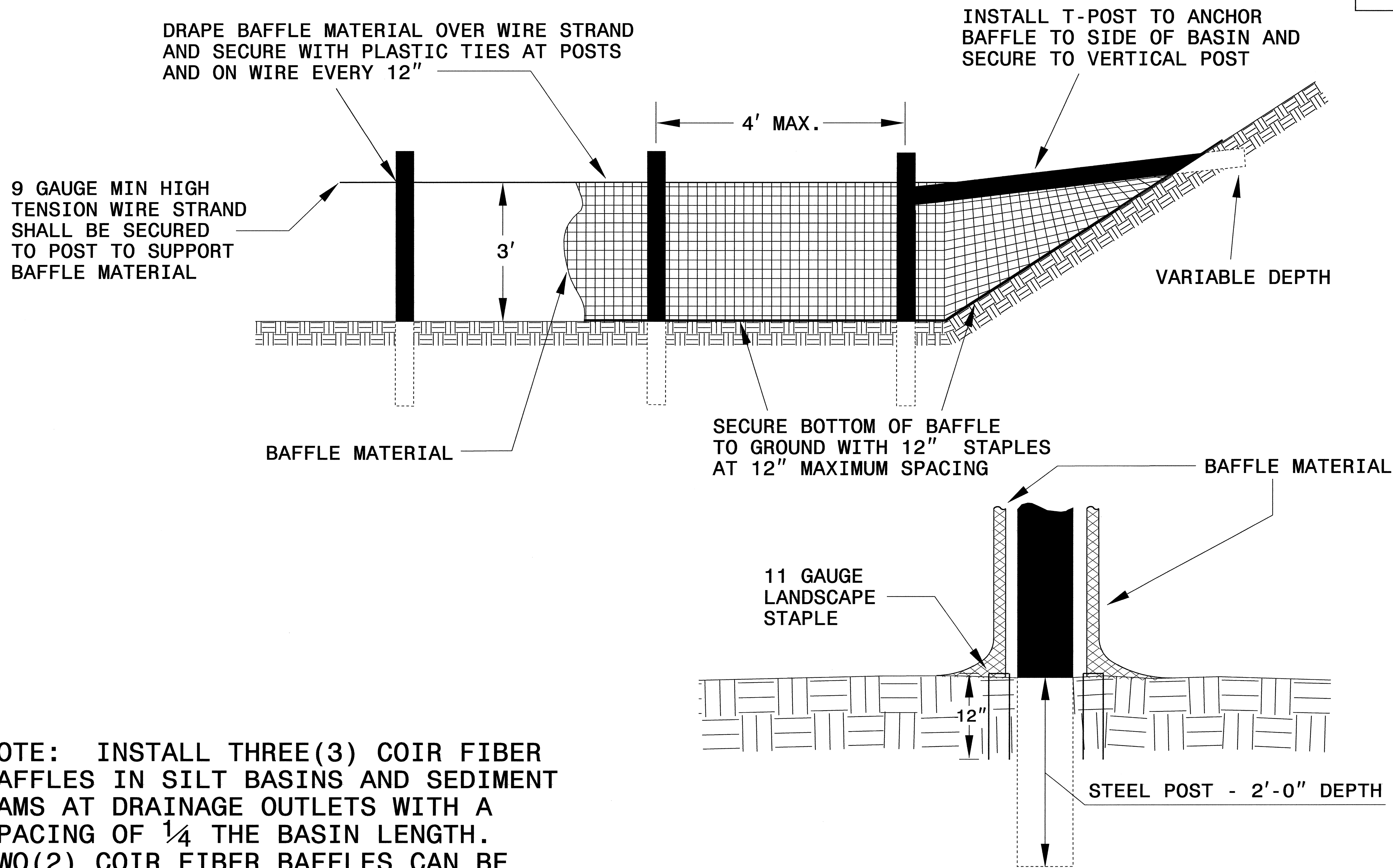
**CROSS SECTION  
TRAPEZOIDAL DITCH**



**ELEVATION VIEW**

PROJECT REFERENCE NO. B-4466	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL

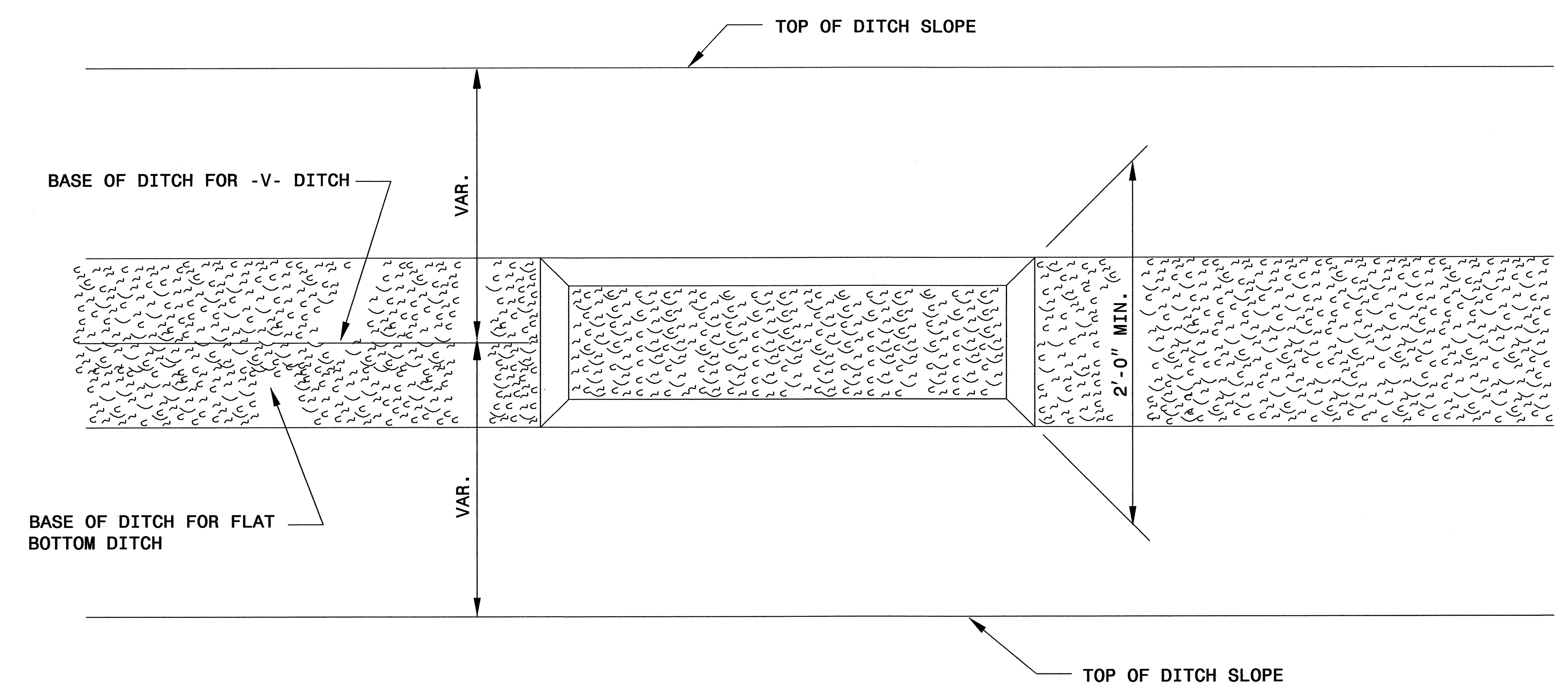


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

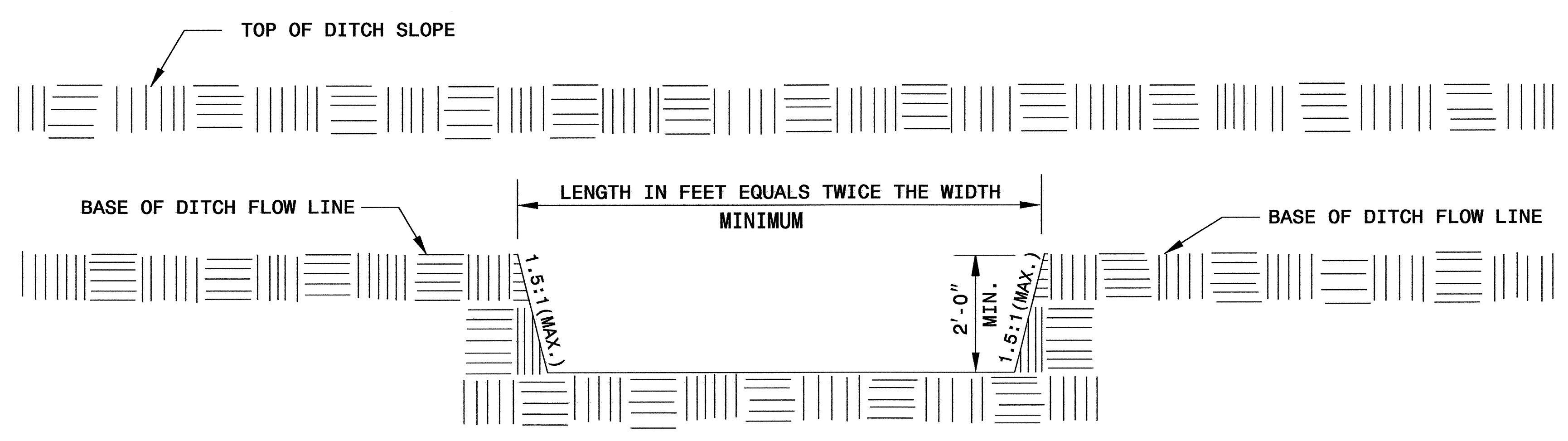
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

PROJECT REFERENCE NO. B-4466	SHEET NO. EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SILT BASIN 'B' DETAIL



PLAN



ELEVATION



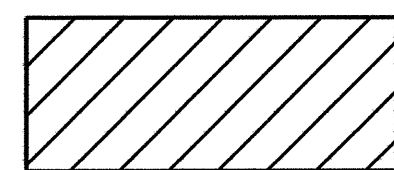


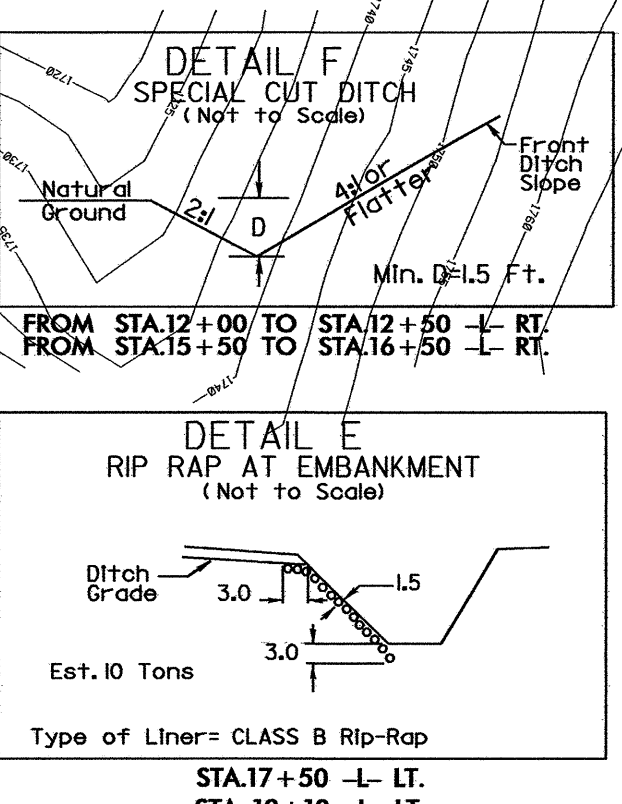
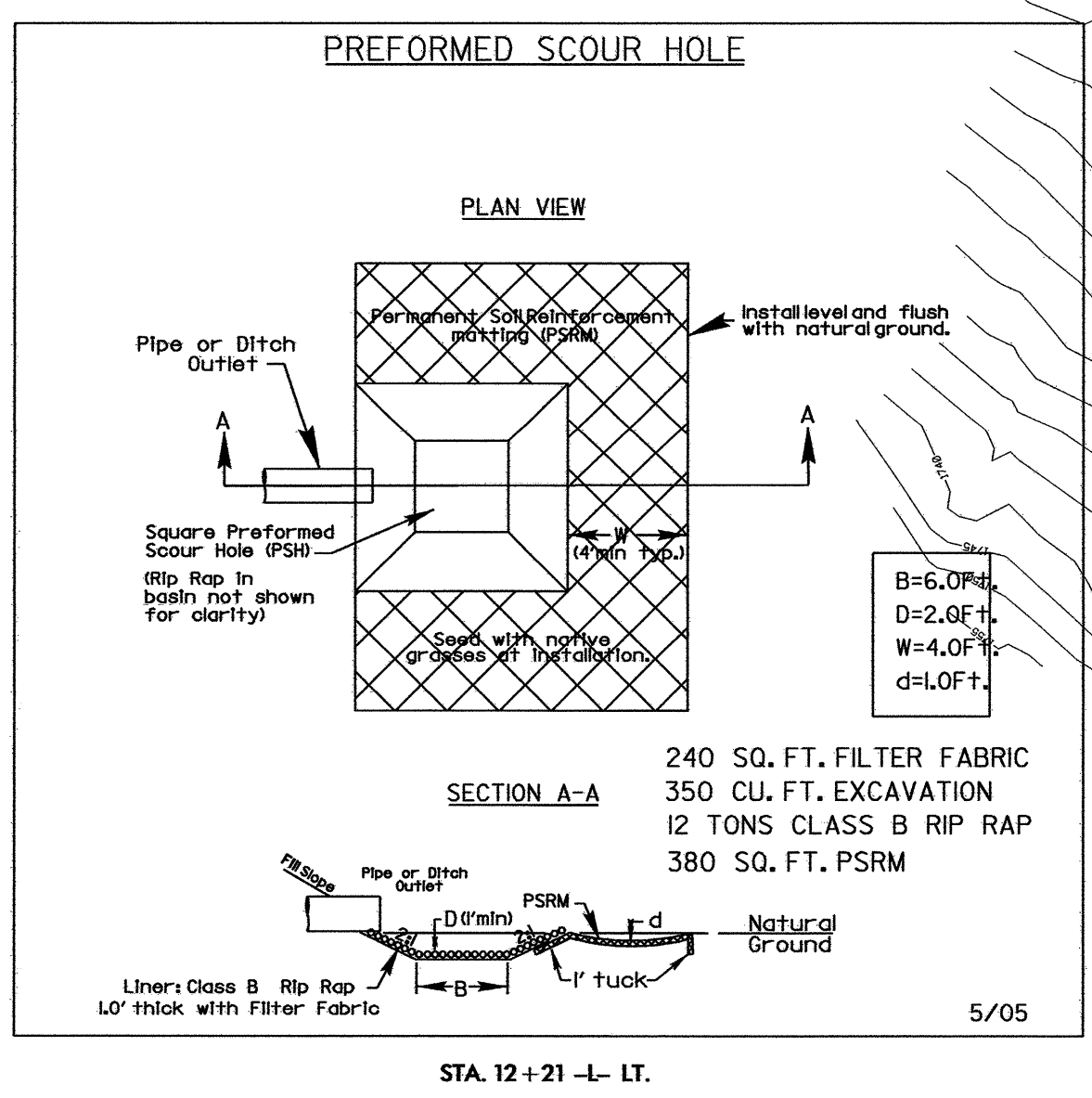
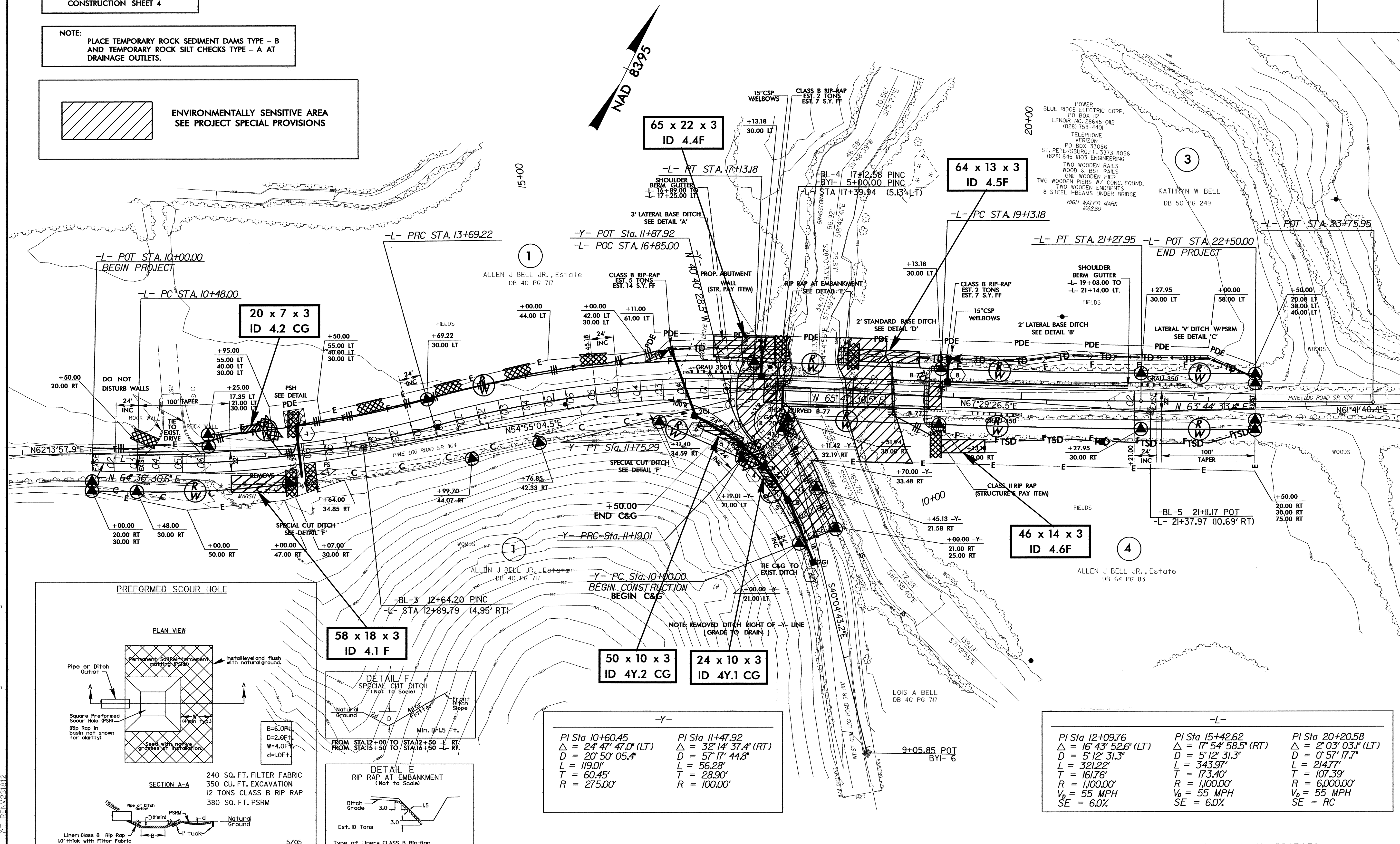
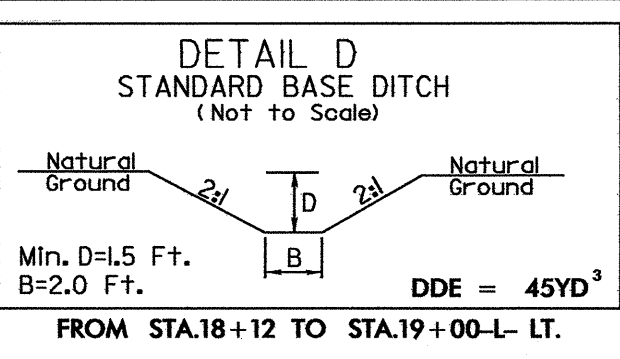
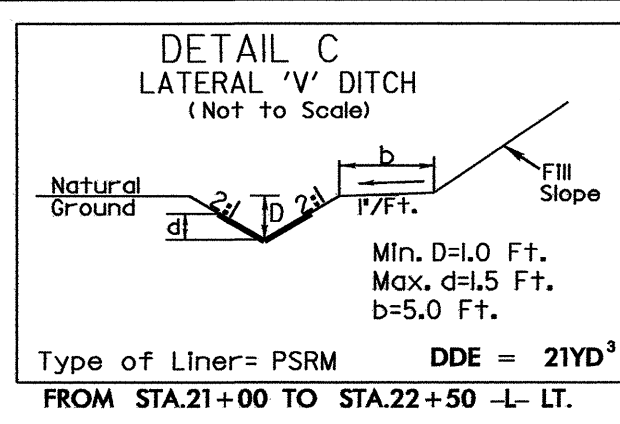
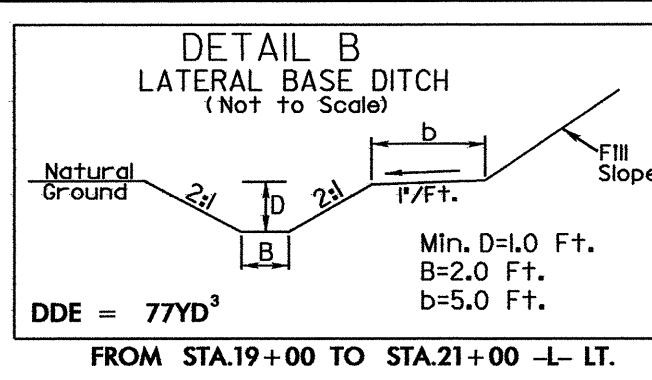
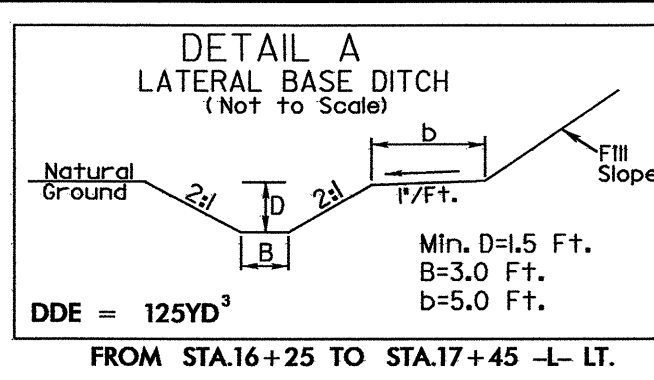
PROJECT REFERENCE NO. B-4466	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:  
UTILIZE SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.

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.

 ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS



-Y-

PI Sta 10+60.45 Δ = 24' 47" 47.0° (LT) D = 20' 50" 05.4" L = 119.01' T = 60.45' R = 275.00'	PI Sta 11+47.92 Δ = 32' 14' 37.4° (RT) D = 57' 17" 44.8" L = 56.28' T = 28.90' R = 100.00'
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-L-

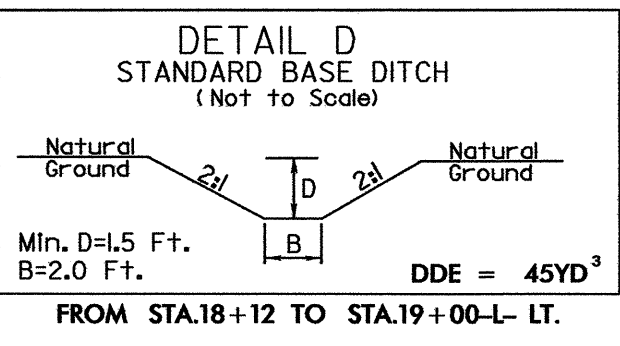
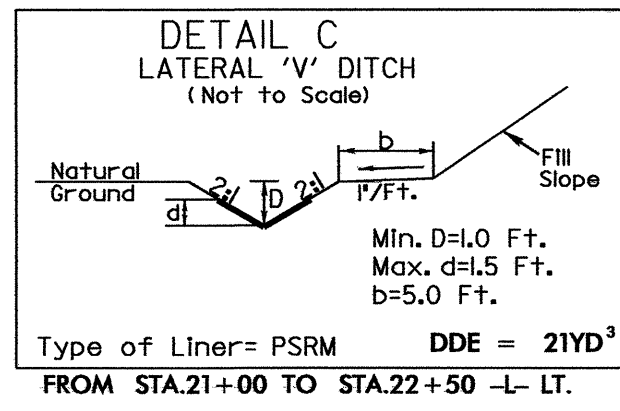
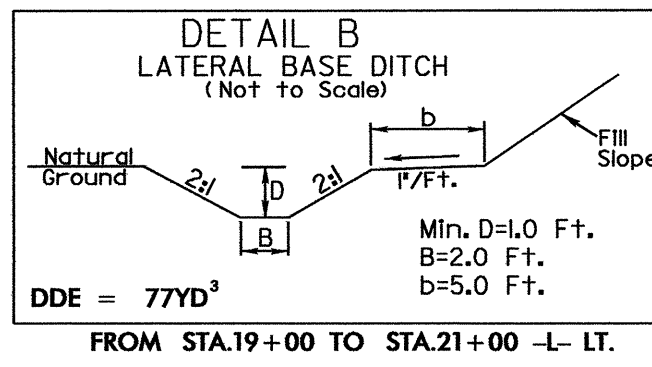
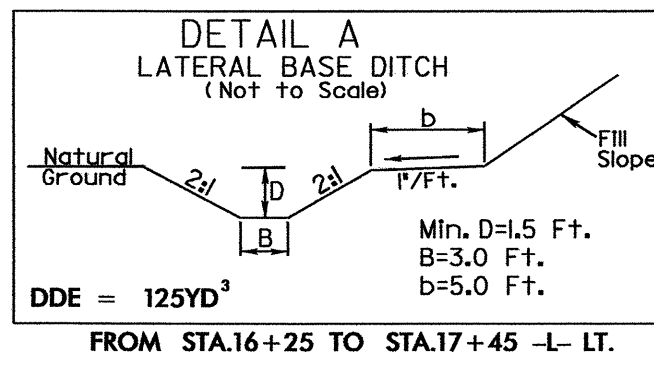
PI Sta 12+09.76 Δ = 16' 43' 52.6° (LT) D = 5' 12' 31.3" L = 321.22' T = 161.76' R = 1,100.00' V <sub>0</sub> = 55 MPH SE = 6.0%	PI Sta 15+42.62 Δ = 17' 54' 58.5° (RT) D = 5' 12' 31.3" L = 343.97' T = 173.40' R = 1,100.00' V <sub>0</sub> = 55 MPH SE = 6.0%	PI Sta 20+20.58 Δ = 2' 03' 03.1° (LT) D = 0' 57' 17.7" L = 214.77' T = 107.39' R = 6,000.00' V <sub>0</sub> = 55 MPH SE = RC
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SEE SHEET 5 FOR -L- & -Y- PROFILES  
SEE SHEET S-1 THUR S- FOR STRUCTURE PLANS

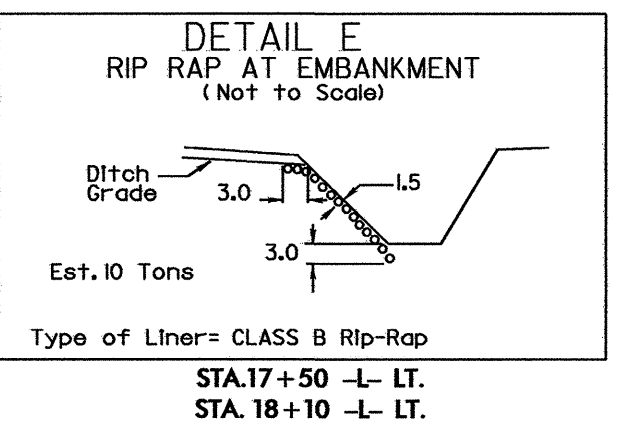
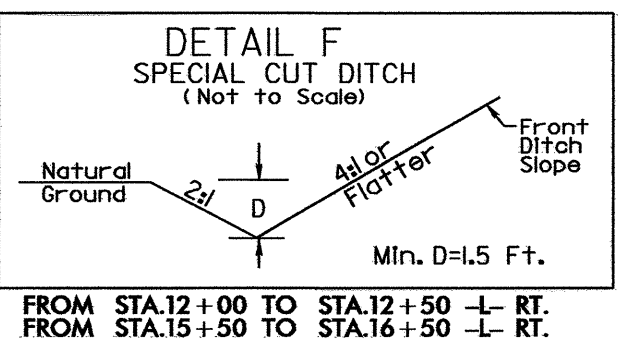
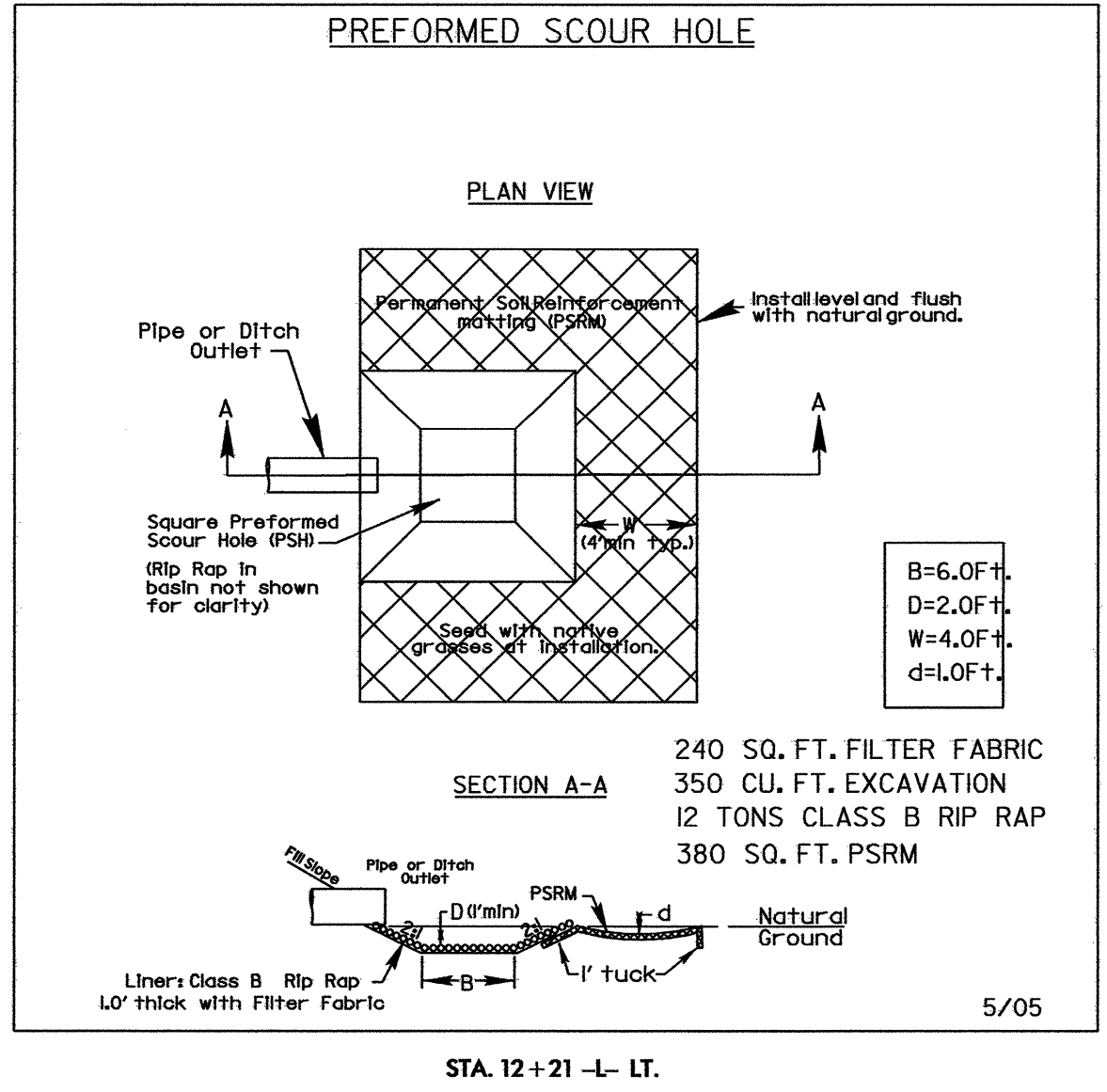
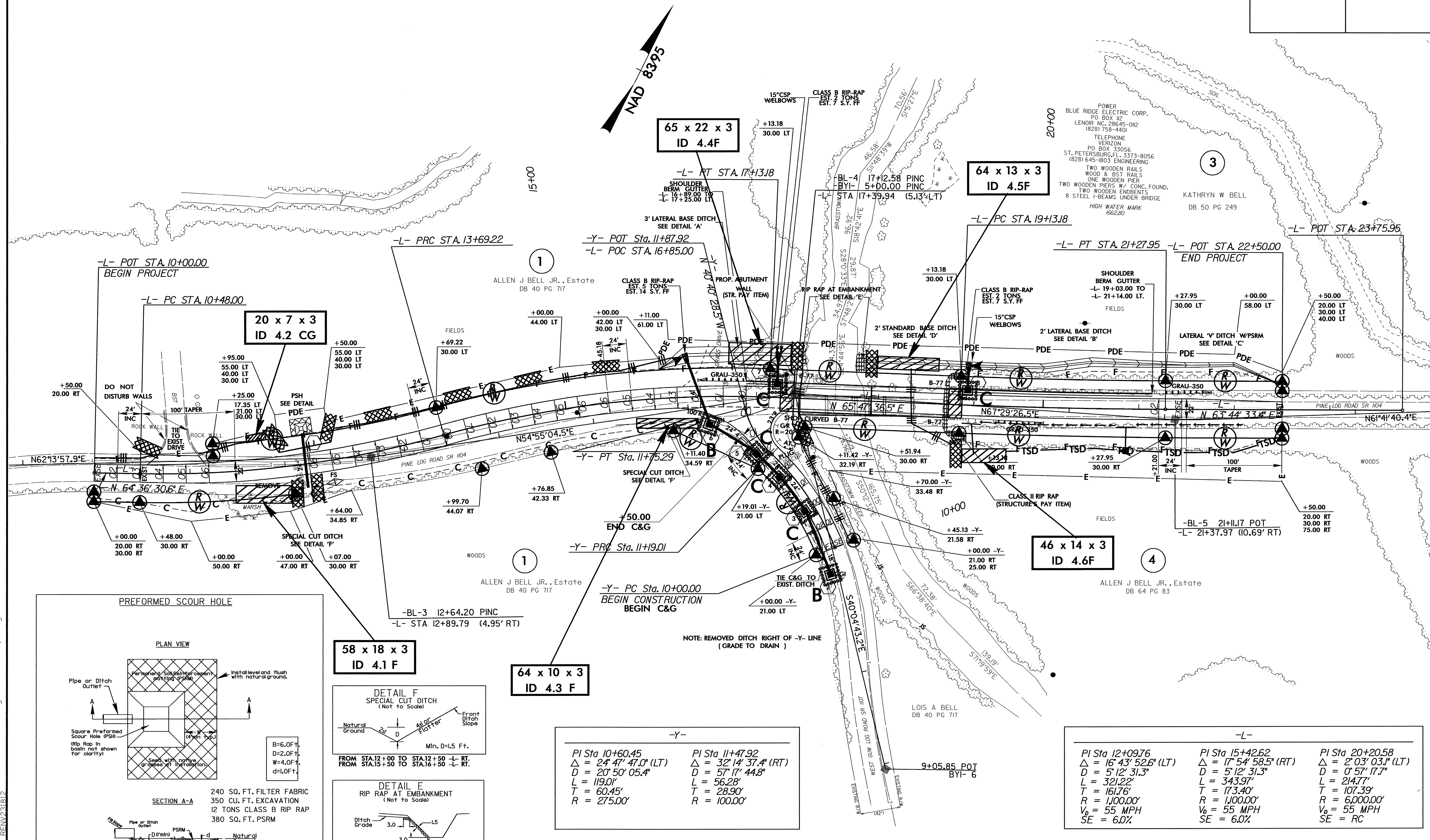
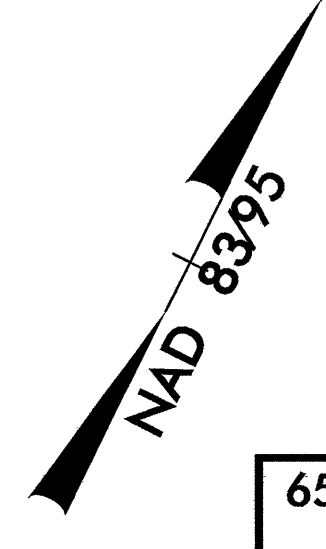
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NOTE: UTILIZE SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.



PROJECT REFERENCE NO. B-4466	SHEET NO. EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y-

PI Sta 10+60.45	PI Sta 11+47.92
$\Delta = 24' 47'' 47.0'' (LT)$	$\Delta = 32' 14'' 37.4'' (RT)$
$D = 20' 50'' 05.4''$	$D = 57' 17'' 44.8''$
$L = 119.01'$	$L = 56.28'$
$T = 60.45'$	$T = 28.90'$
$R = 275.00'$	$R = 100.00'$

-L-

PI Sta 12+09.76	PI Sta 15+42.62	PI Sta 20+20.58
$\Delta = 16' 43'' 52.6'' (LT)$	$\Delta = 17' 54'' 58.5'' (RT)$	$\Delta = 2' 03'' 03.1'' (LT)$
$D = 5' 12'' 31.3''$	$D = 5' 12'' 31.3''$	$D = 0' 57'' 17.7''$
$L = 321.22'$	$L = 343.97'$	$L = 214.77'$
$T = 161.76'$	$T = 173.40'$	$T = 107.39'$
$R = 1,000.00'$	$R = 1,000.00'$	$R = 6,000.00'$
$V_0 = 55 \text{ MPH}$	$V_0 = 55 \text{ MPH}$	$V_0 = 55 \text{ MPH}$
$SE = 6.0\%$	$SE = 6.0\%$	$SE = RC$

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SEE SHEET 5 FOR -L- & -Y- PROFILES  
SEE SHEET S-1THUR S- FOR STRUCTURE PLANS