

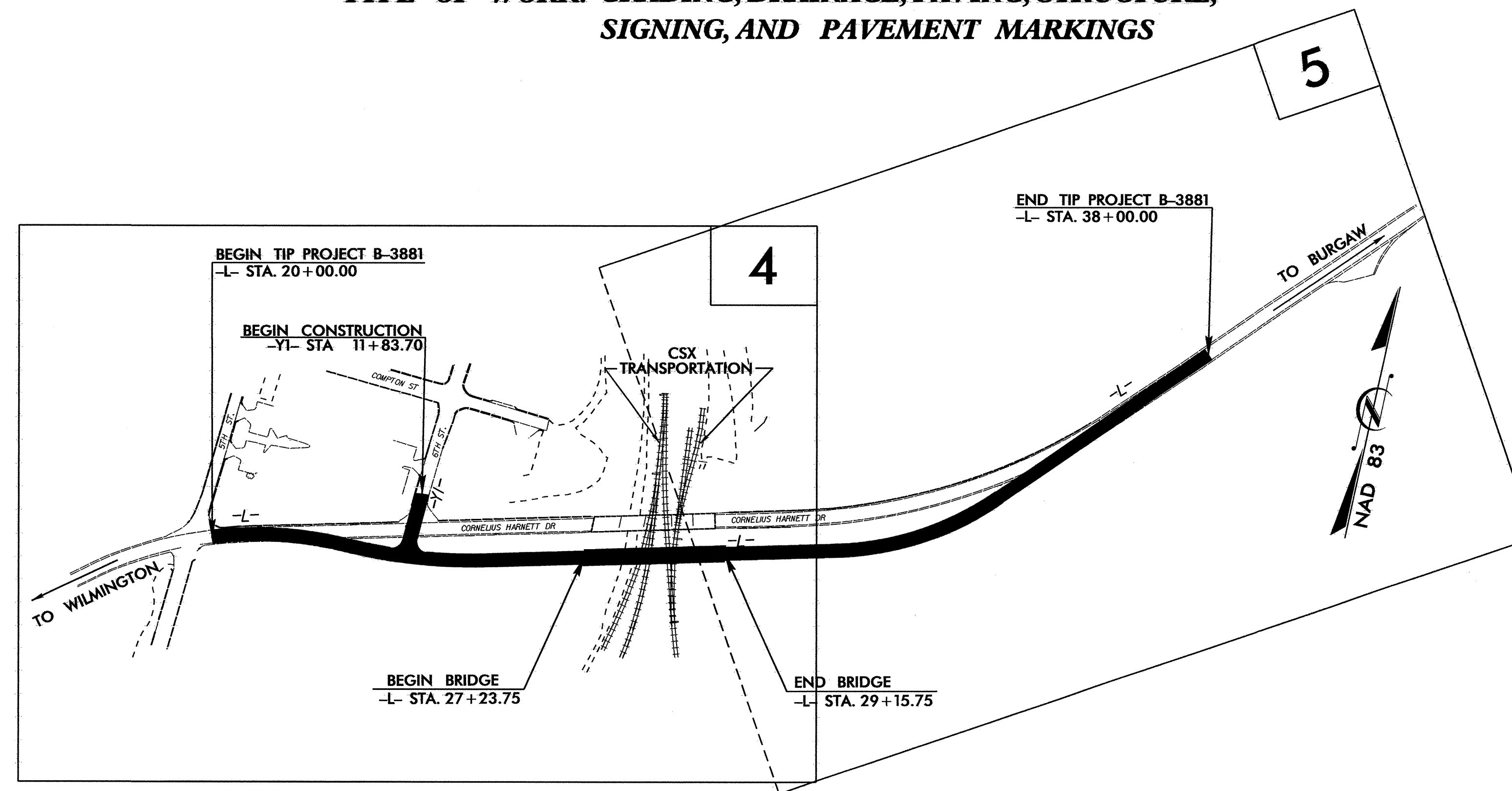
TIP PROJECT: B-3881

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

NEW HANOVER COUNTY

**LOCATION: BRIDGE 26 OVER CSX TRANSPORTATION
TRACKS ON CORNELIUS HARNETT DRIVE
(OLD NC 133)**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURE,
SIGNING, AND PAVEMENT MARKINGS**



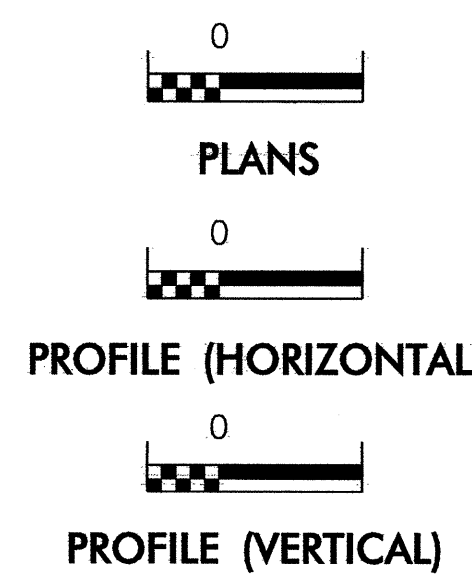
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3881	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
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

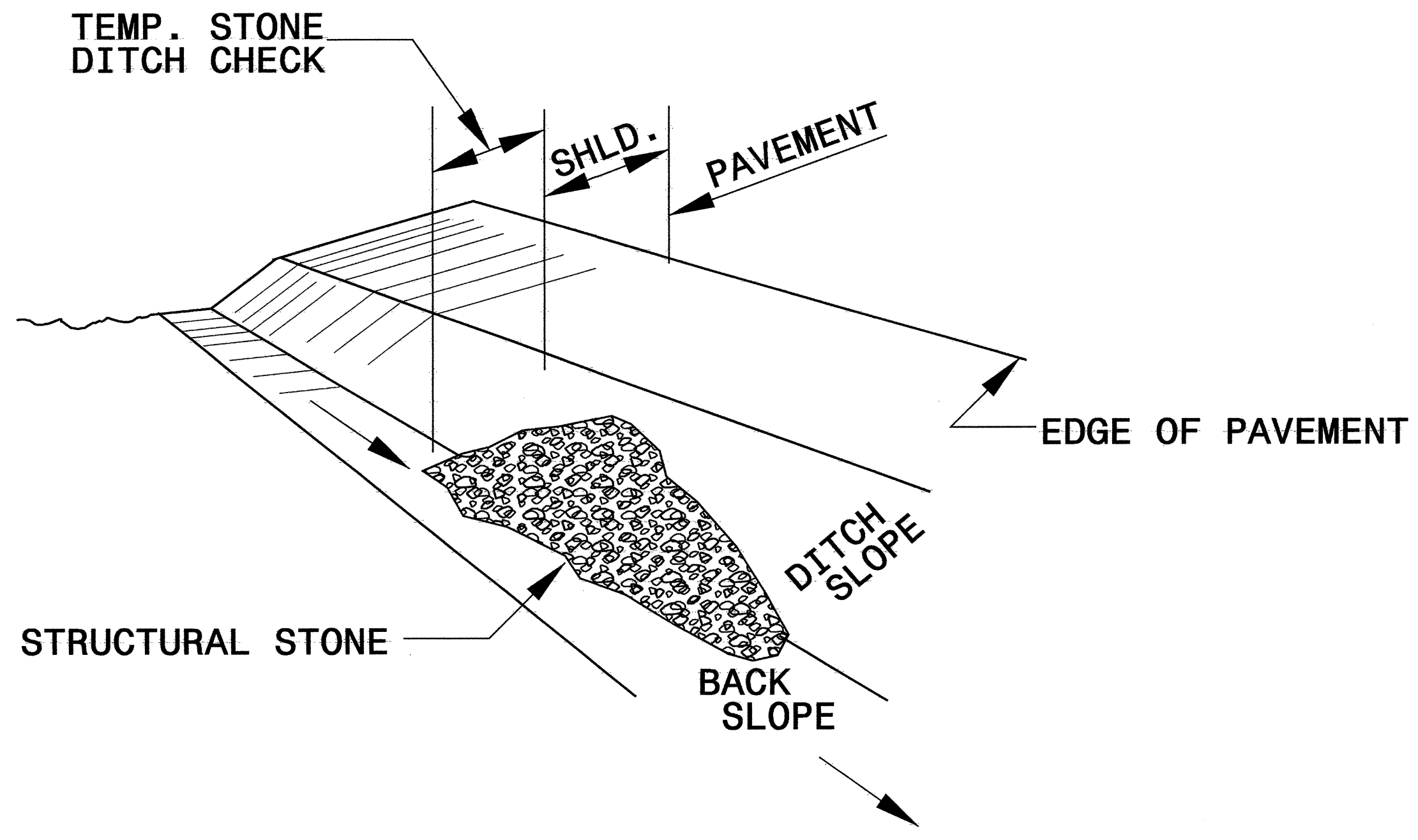
Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

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.

1604.01 Railroad Erosion Control Detail	1630.03 Temporary Silt Ditch
1605.01 Temporary Silt Fence	1630.05 Temporary Diversion
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	

PROJECT REFERENCE NO. B-3881	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

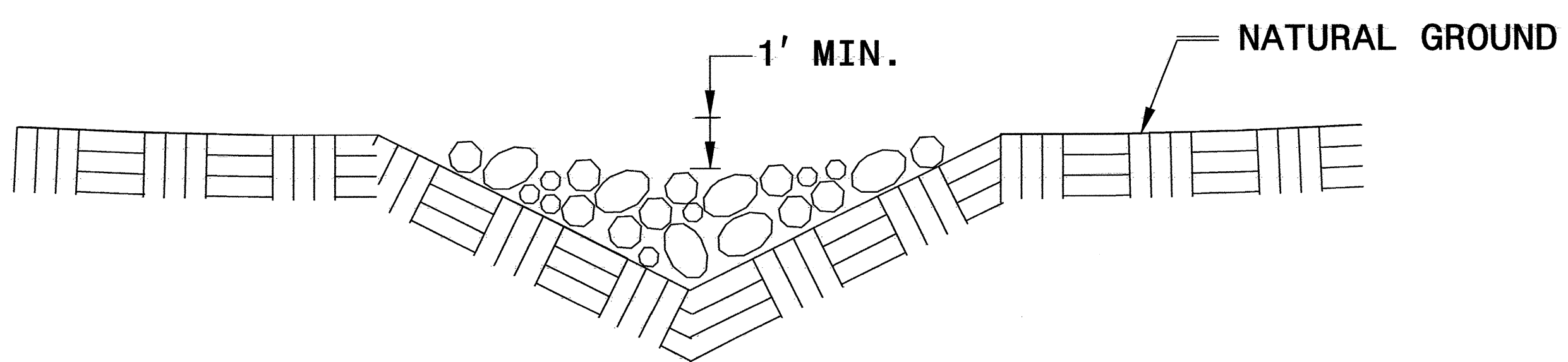


ISOMETRIC VIEW

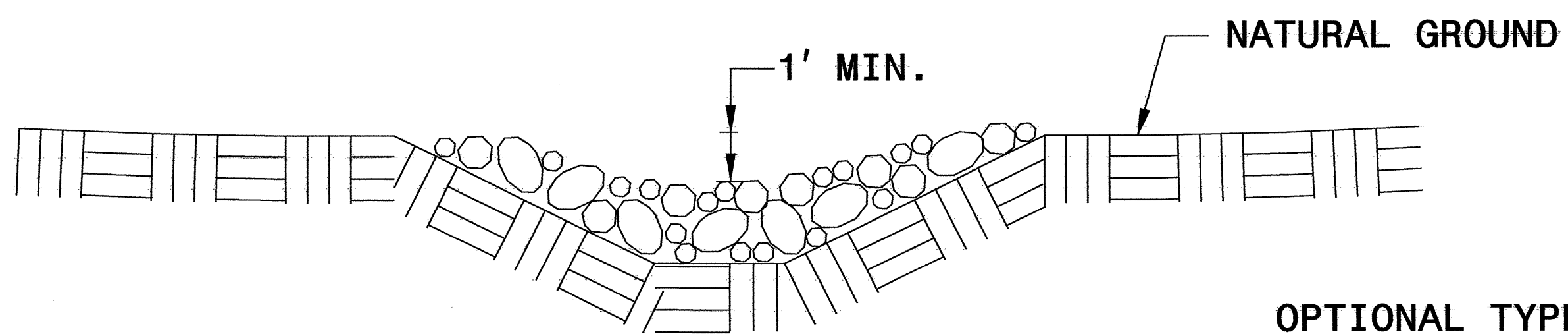
NOTES:

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

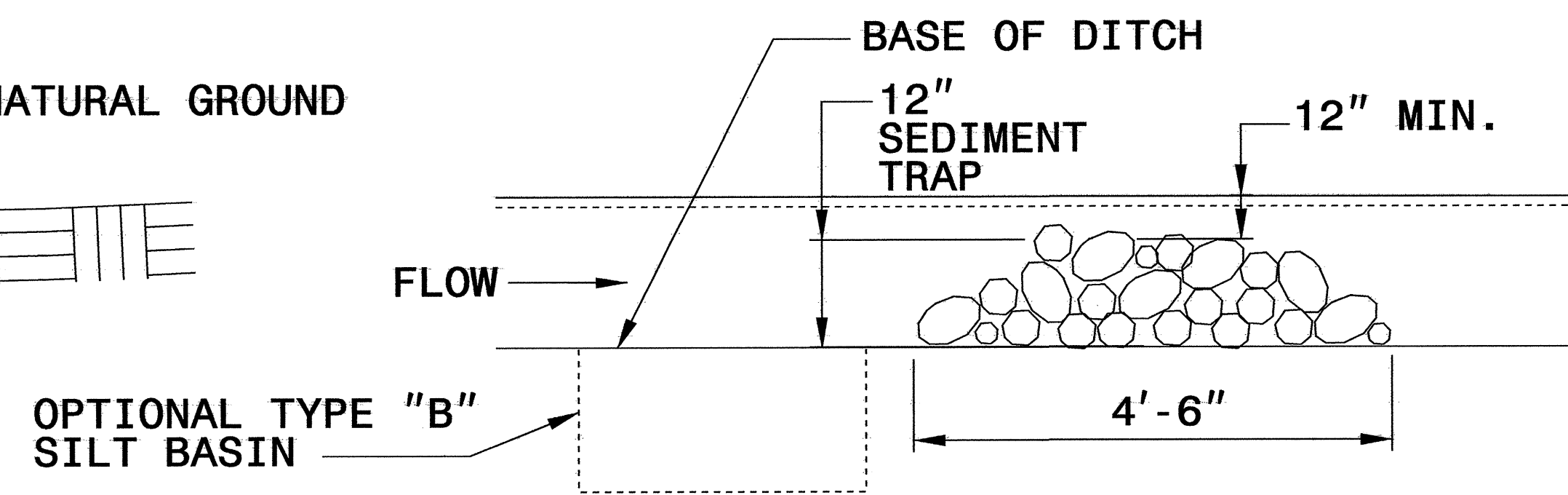
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



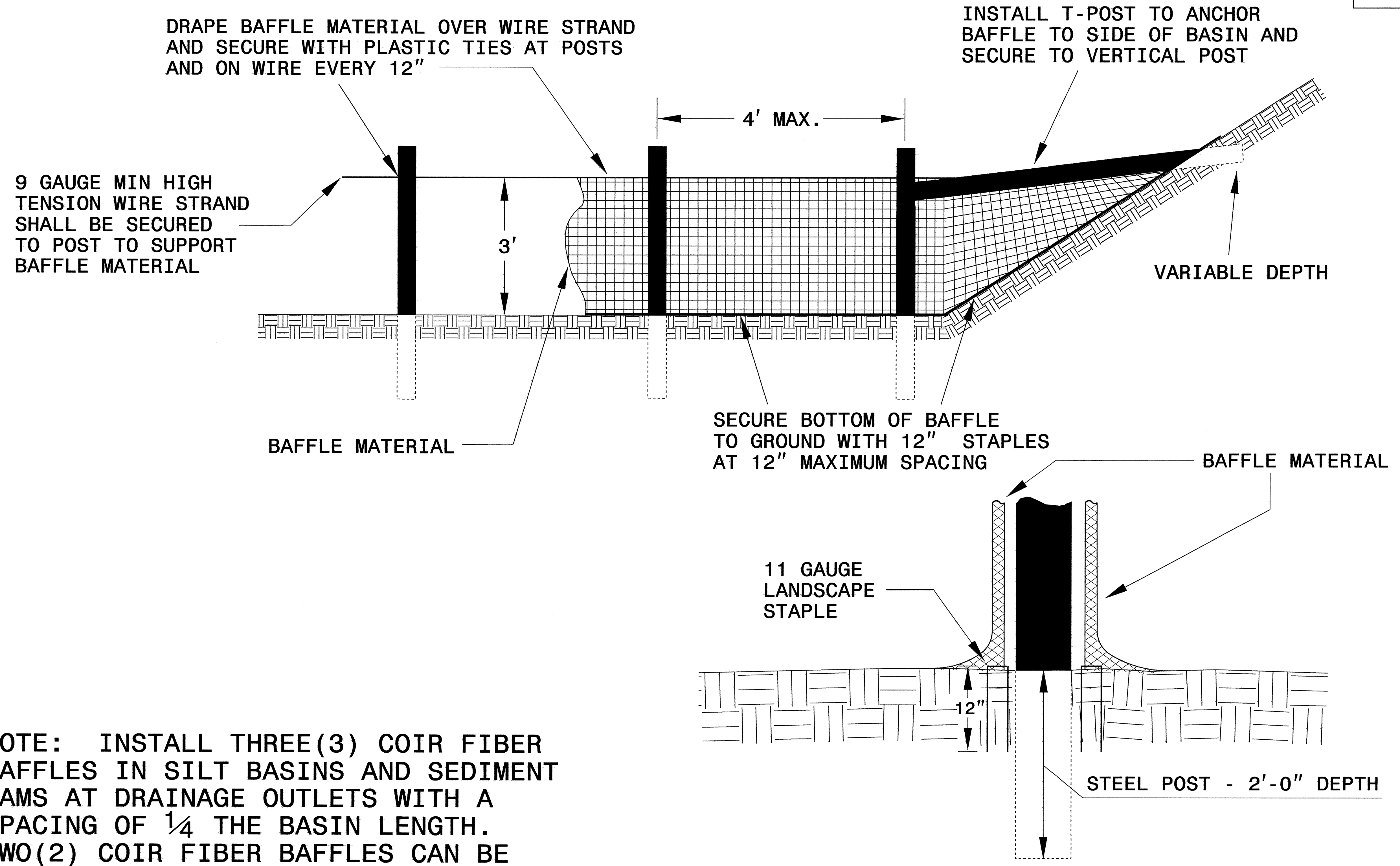
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. B-3881	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

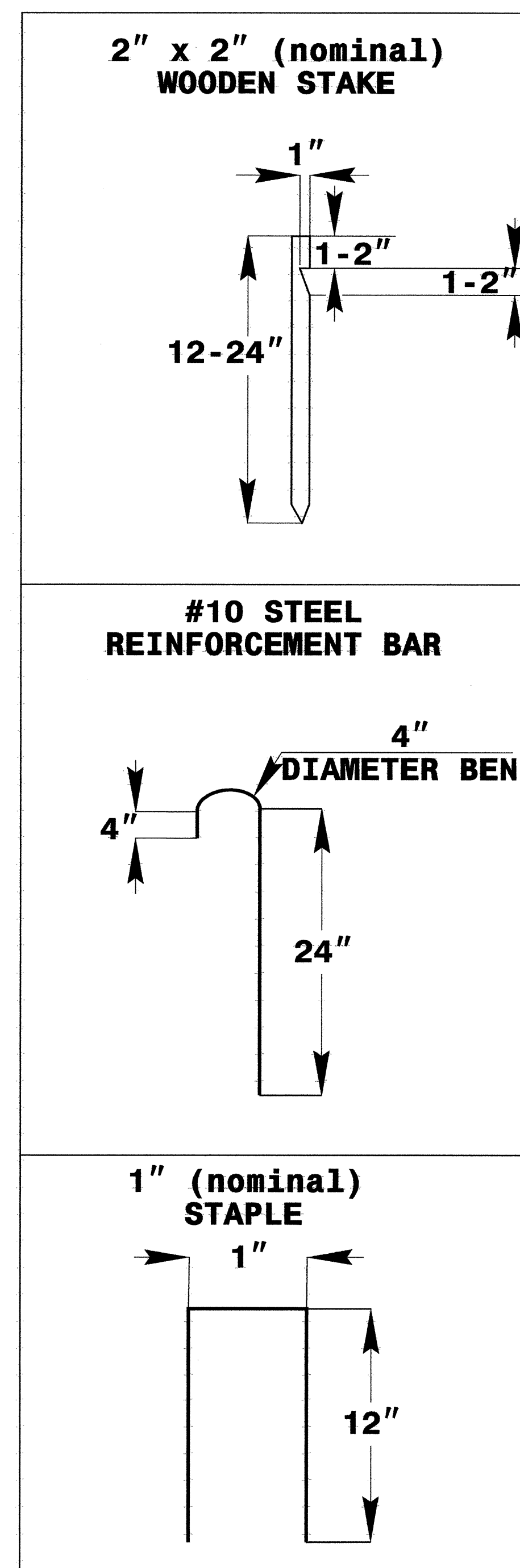
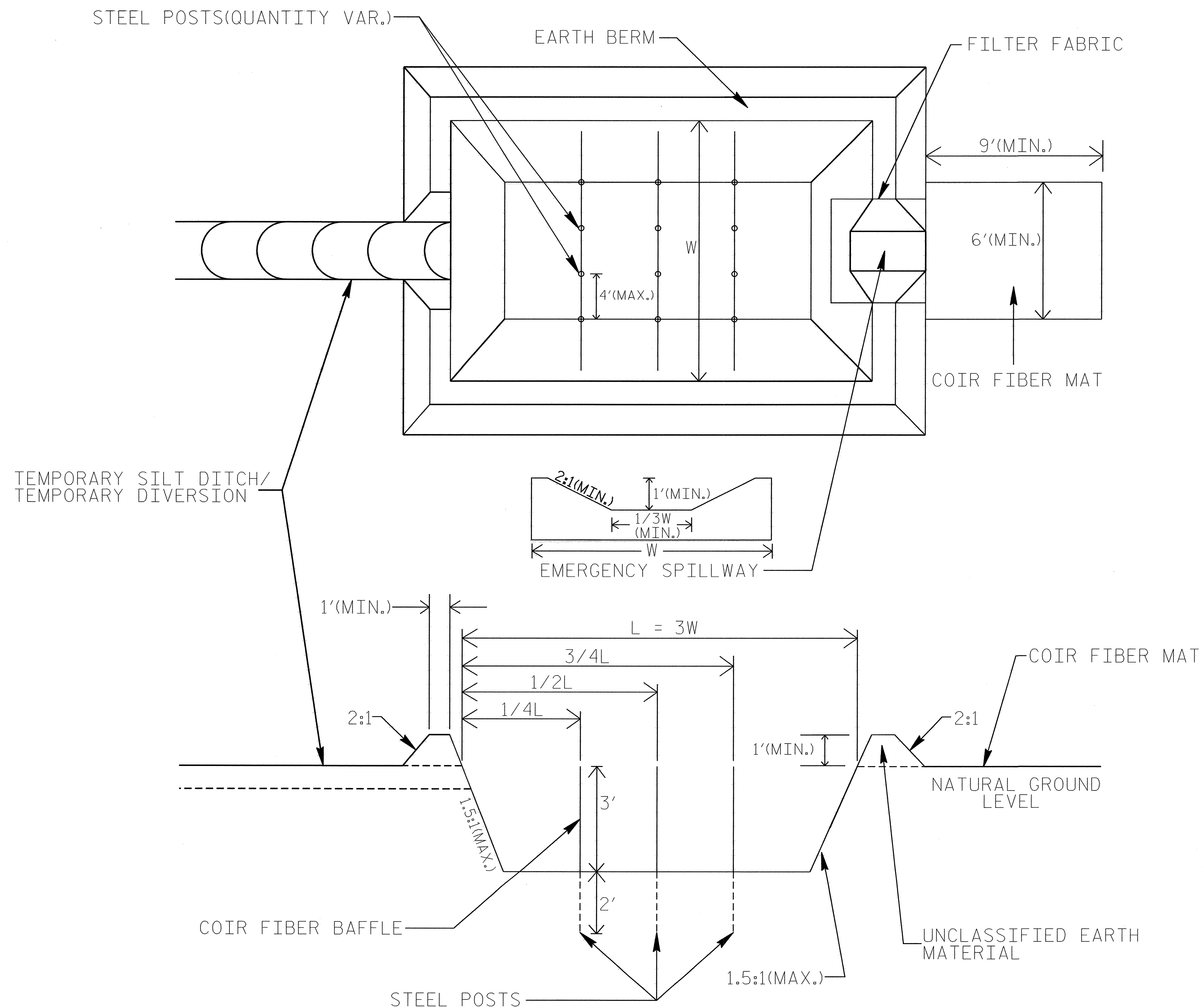


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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

INFILTRATION BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. B-3881	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

NOTES:

1. DO NOT EXCAVATE BELOW WATER TABLE.
2. LIMIT EARTH BERM HEIGHT TO 3 FT.
3. AVOID COMPACTING BOTTOM OF BASIN.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>B-3881</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

PERMANENT SOIL REINFORCEMENT MAT

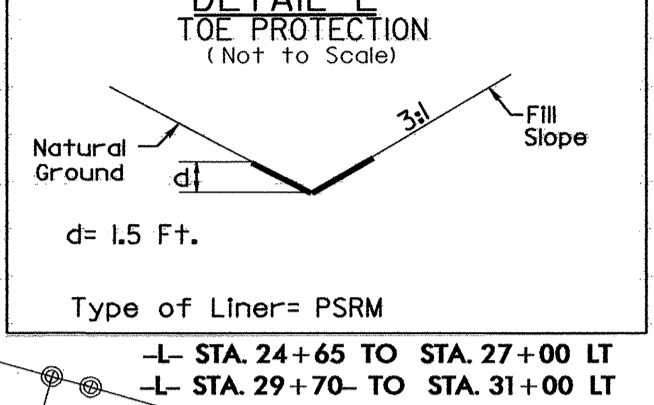
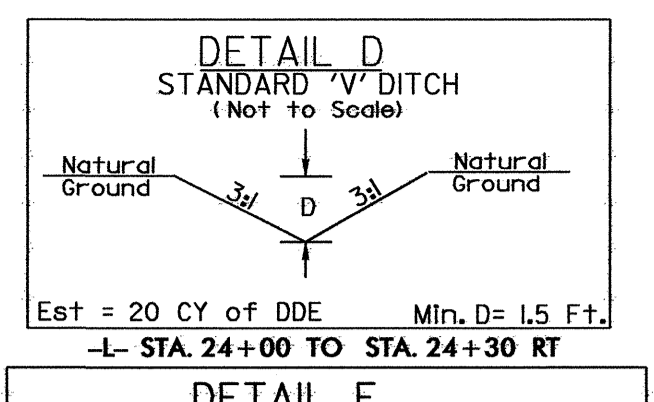
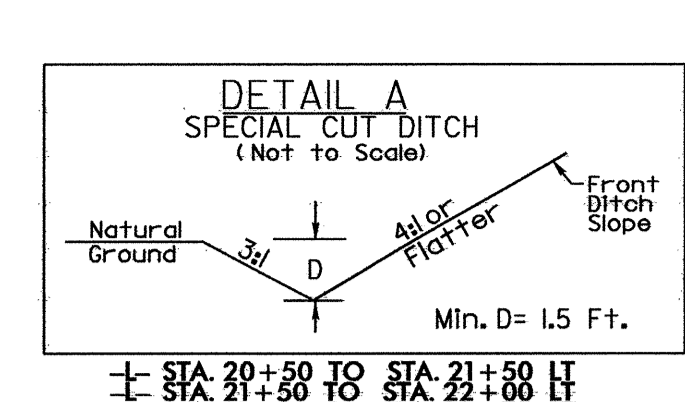
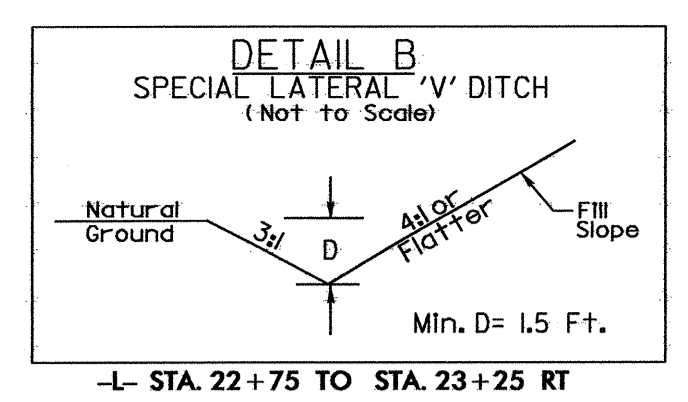
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	20+50	21+50	LT	125
4	-L-	20+50	21+50	RT	125
4	-L-	22+00	24+00	RT	245
4	-YI-	12+00	12+50	RT	65
				SUBTOTAL	560
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				485
				TOTAL	1045
				SAY	1050

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	34+50	36+50	LT	245
				SUBTOTAL	245
				ADDITIONAL PERM TO BE INSTALLED	760
				TOTAL	1005
				SAY	1050

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

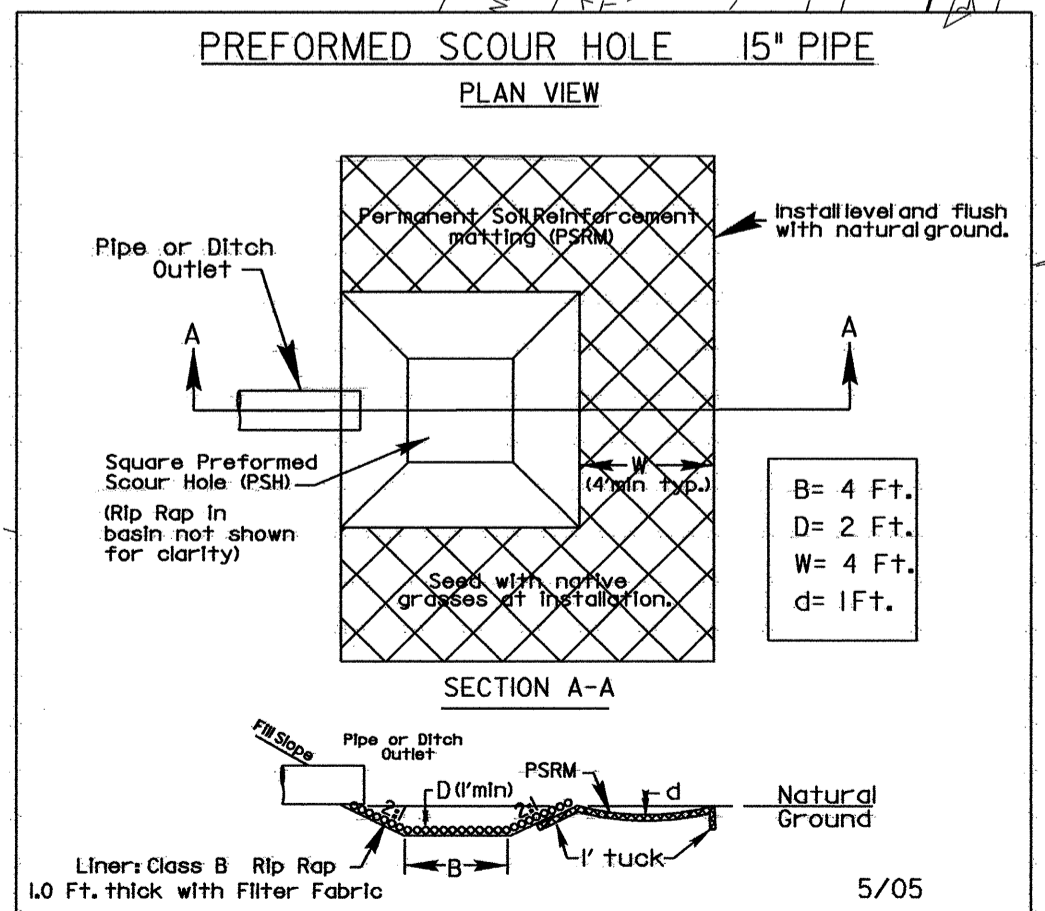
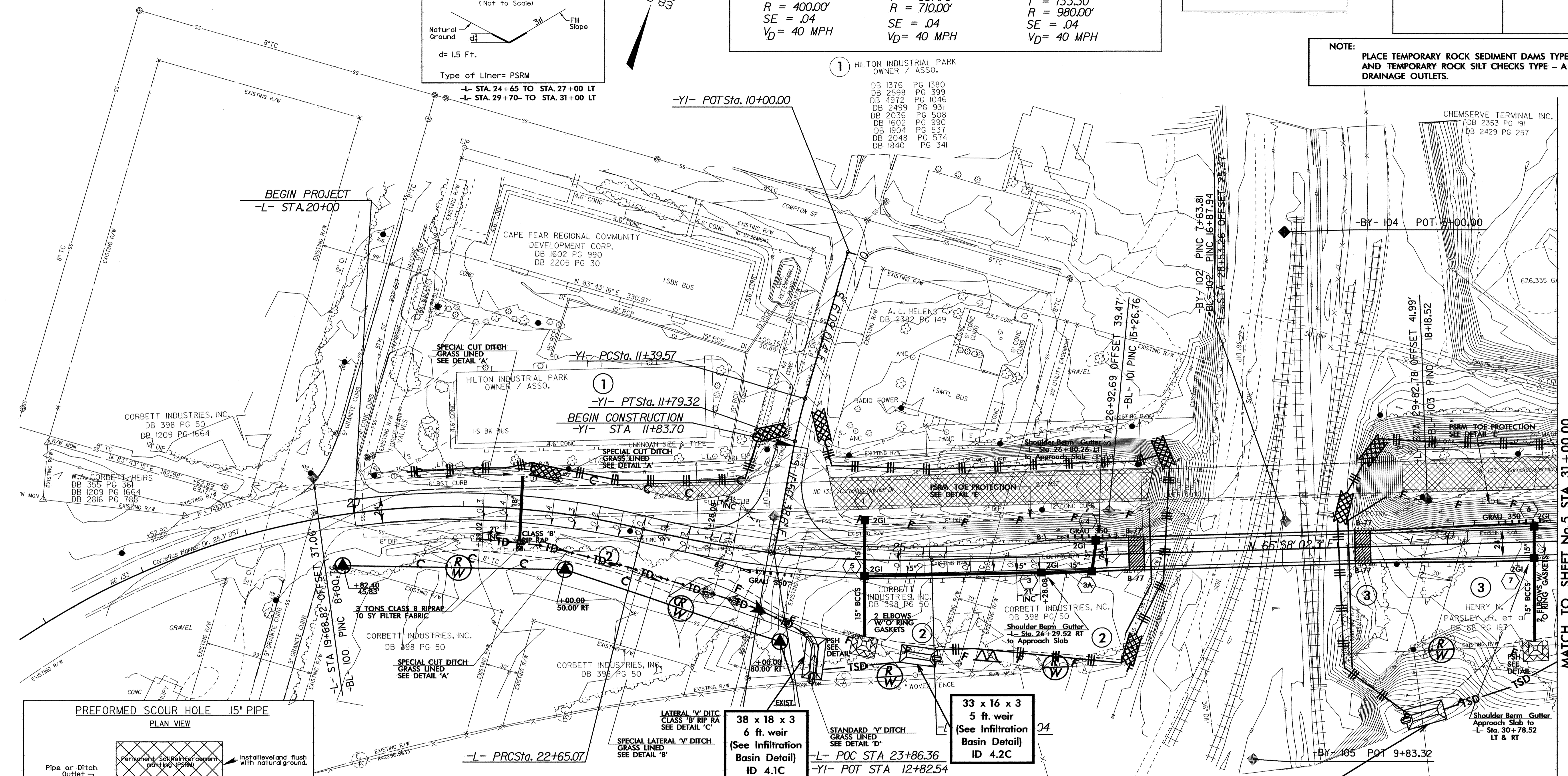
ADT 2005
2025

19000
400 US 117/NC 133 19000
800



-YI-	L	L
PI Sta 11+59.46 Δ = 5' 4" 37.2" (LT) D = 14' 19" 26.2" L = 39.75' T = 19.89' R = 400.00' SE = .04 VD = 40 MPH	PI Sta 18+63.60 Δ = 8' 3" 51' 57.0" (RT) D = 8' 0" 11.4" L = 1,039.25' T = 637.78' R = 710.00' SE = .04 VD = 40 MPH	PI Sta 23+98.37 Δ = 15' 29' 28.9" (LT) D = 5' 50' 47.4" L = 264.97' T = 133.30' R = 980.00' SE = .04 VD = 40 MPH

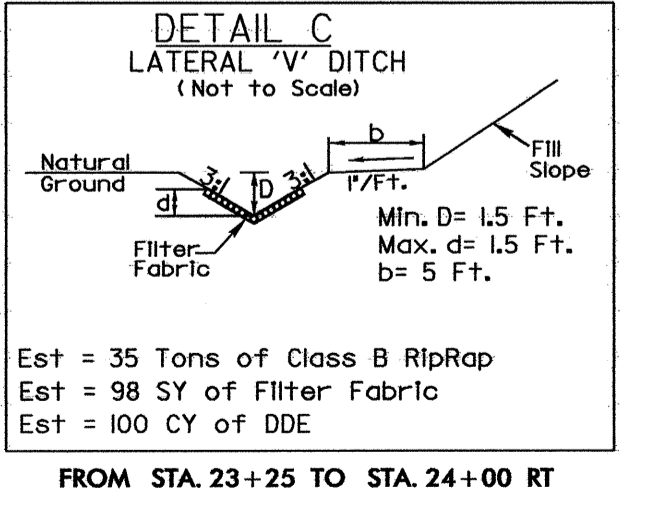
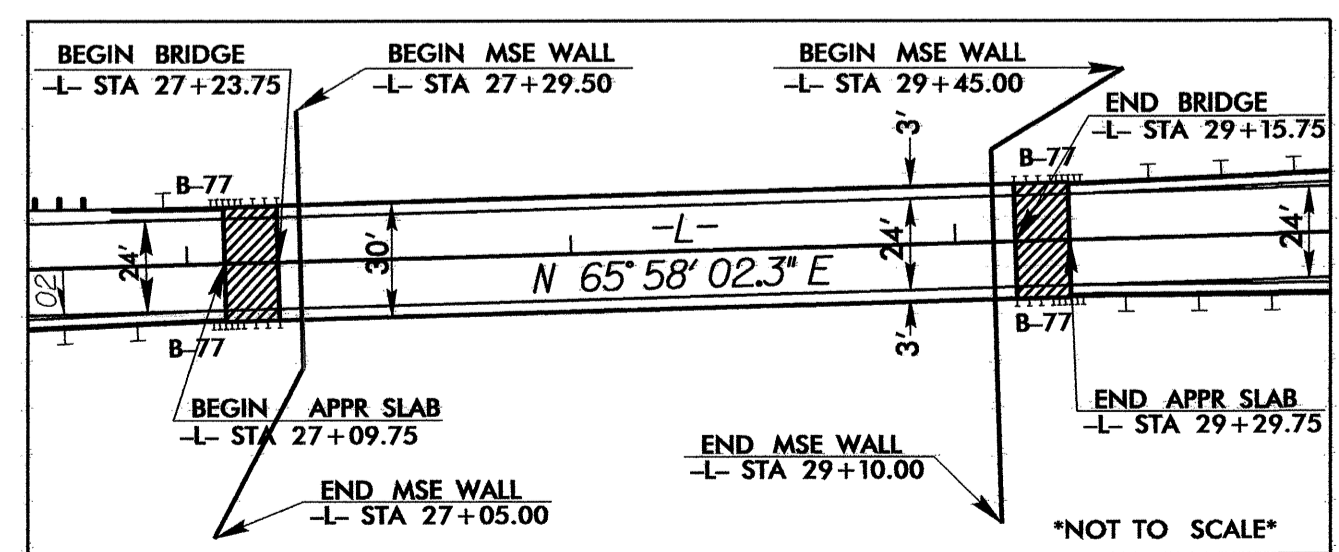
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



38 x 18 x 3
6 ft. weir
(See Infiltration
Basin Detail)
ID 4.1C

33 x 16 x 3
5 ft. weir
(See Infiltration
Basin Detail)
ID 4.2C

36 x 18 x 3
6 ft. weir
(See Infiltration
Basin Detail)
ID 4.3C



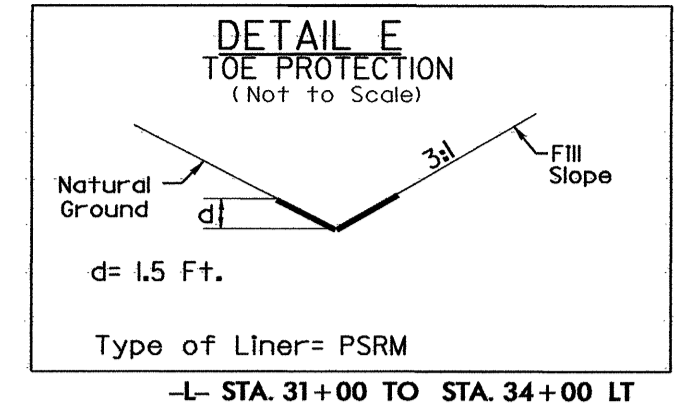
FOR STRUCTURE PLANS, SEE
SHEETS S-1 THRU S-
FOR -L- PROFILE SEE SHEET 6
FOR -YI- PROFILE SEE SHEET 6

MATCH TO SHEET No. 5 STA 31+00.00

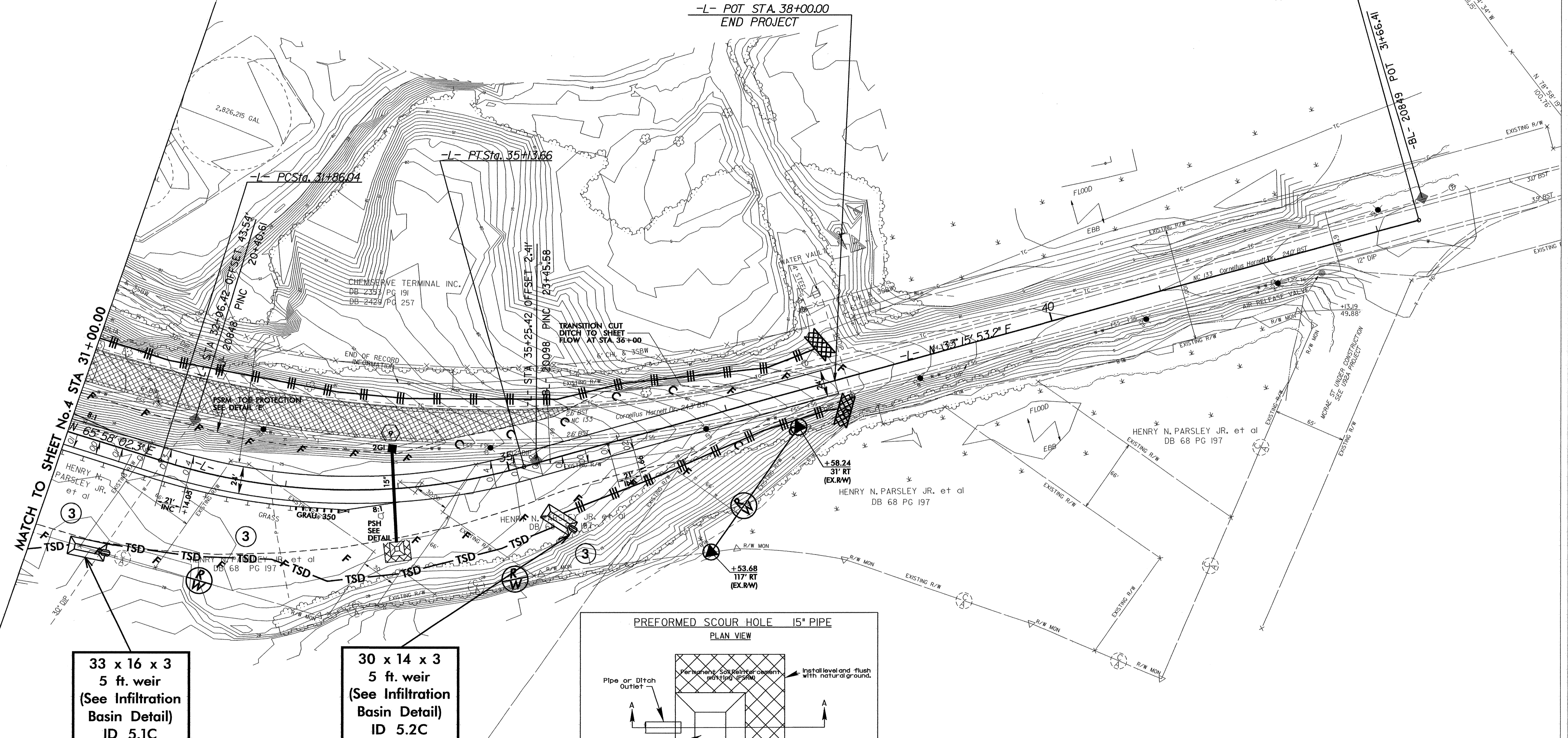
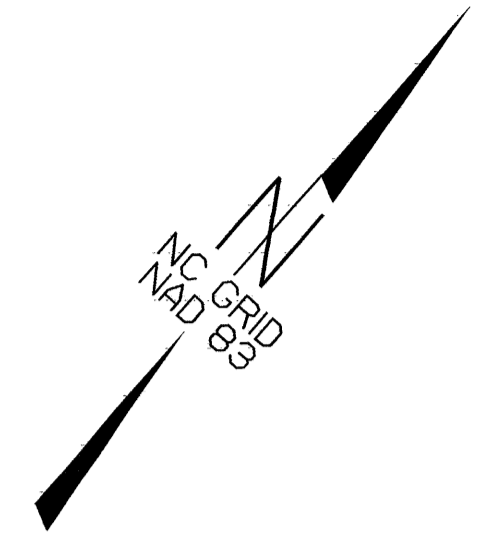
PROJECT REFERENCE NO.	SHEET NO.
B-3881	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 5

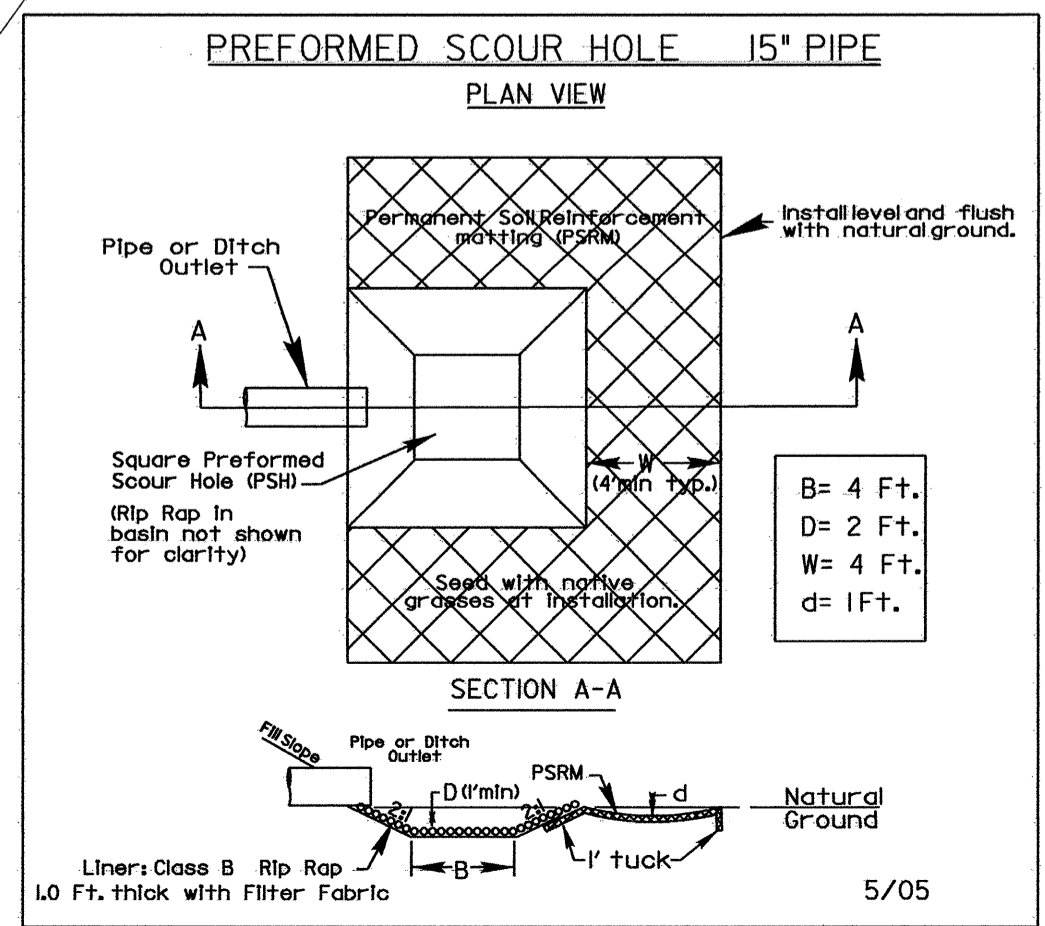


L
 PI Sta 33+54.45
 $\Delta = 32' 42" 09"$ (LT)
 $D = 9' 58" 546"$
 $L = 327.62'$
 $T = 168.41'$
 $R = 574.00'$
 $SE = .04$
 $V_D = 40$ MPH



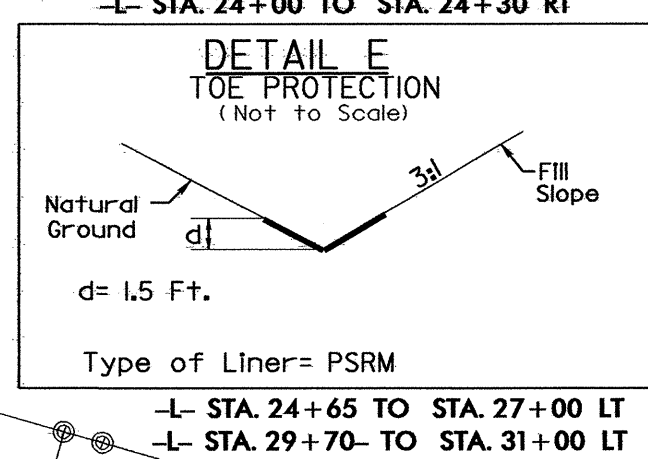
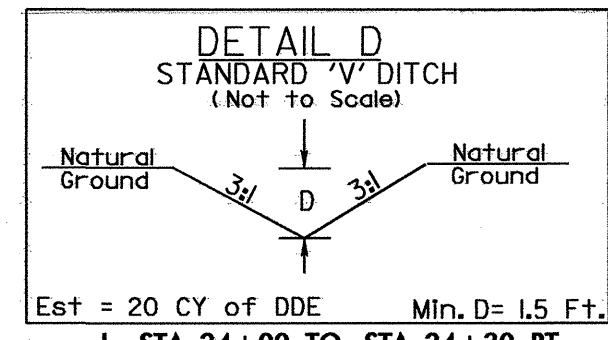
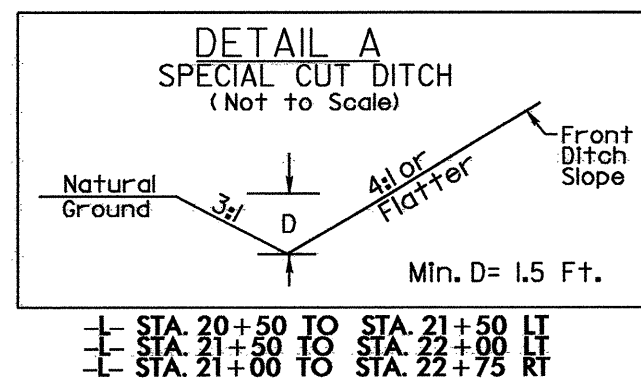
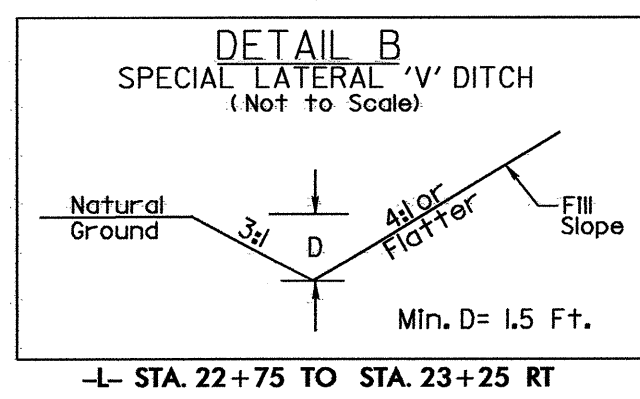
33 x 16 x 3
 5 ft. weir
 (See Infiltration
 Basin Detail)
 ID 5.1C

30 x 14 x 3
 5 ft. weir
 (See Infiltration
 Basin Detail)
 ID 5.2C

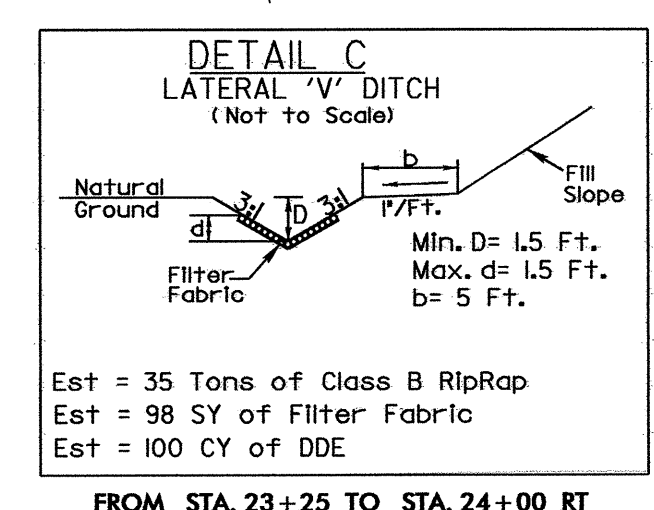
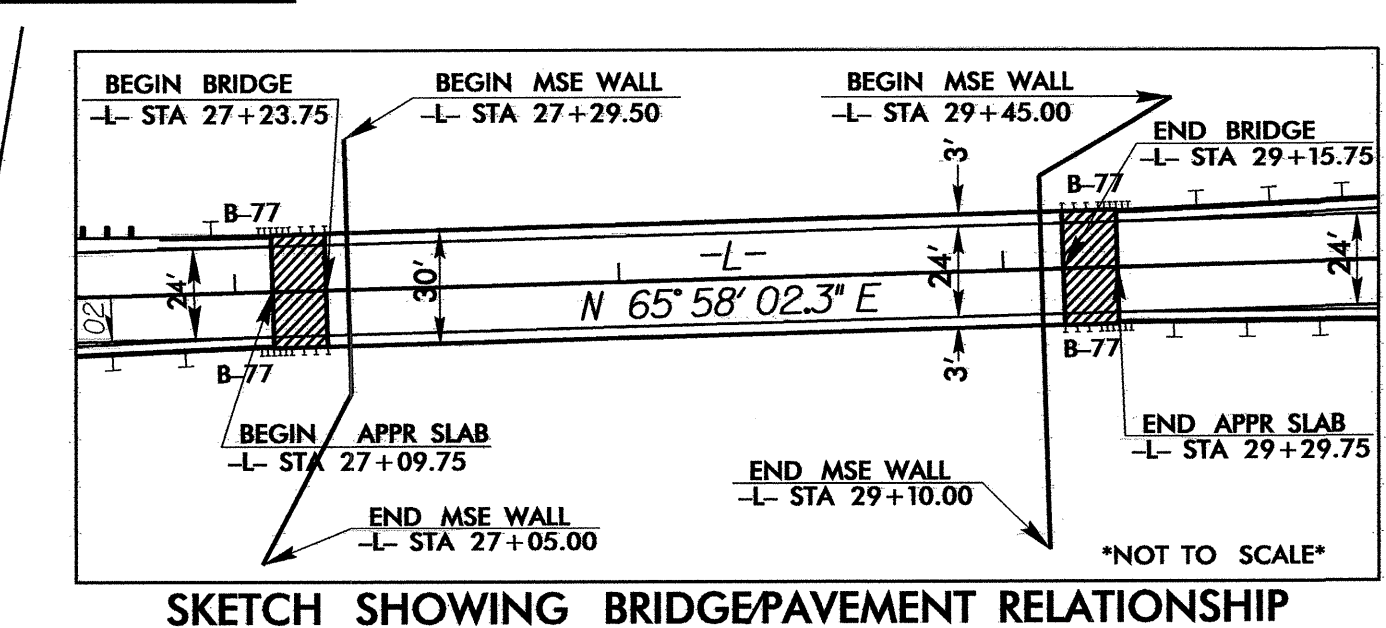
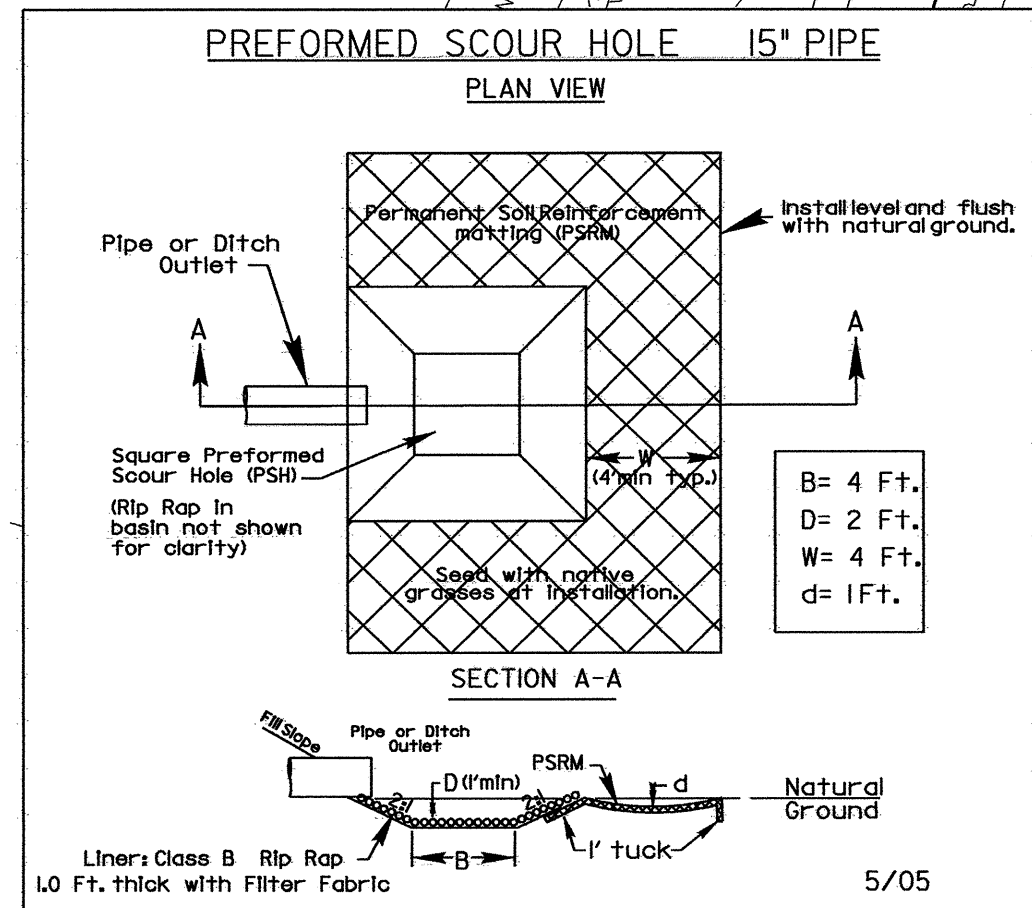
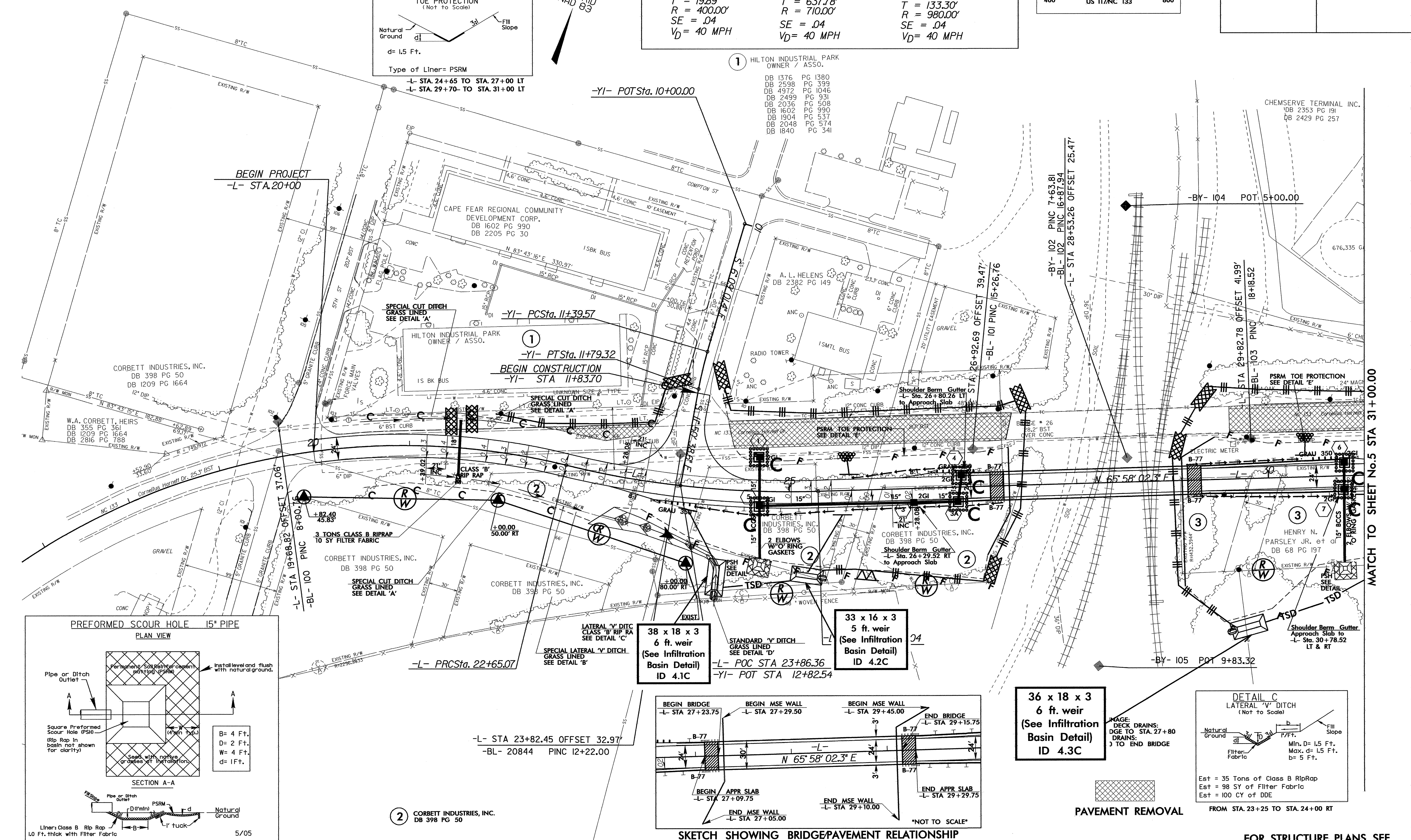
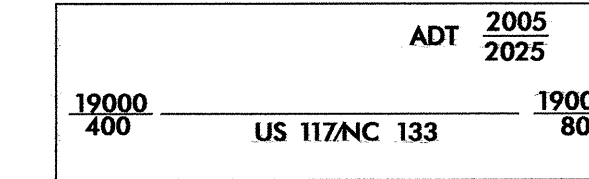


PAVEMENT REMOVAL

FOR -YI- PROFILE SEE SHEET 6
 FOR -L- PROFILE SEE SHEET 6



-YI-	L	L
PI Sta 11+59.46	PI Sta 18+63.60	PI Sta 23+98.37
$\Delta = 5' 41'' 37.2''$ (LT)	$\Delta = 83' 51'' 57.0''$ (RT)	$\Delta = 15' 29'' 28.9''$ (LT)
$D = 14' 19'' 26.2''$	$D = 8' 04'' 11.4''$	$D = 5' 50'' 47.4''$
$L = 39.75'$	$L = 1,039.25'$	$L = 264.97'$
$T = 19.89'$	$T = 637.78'$	$T = 133.30'$
$R = 400.00'$	$R = 710.00'$	$R = 980.00'$
$SE = .04$	$SE = .04$	$SE = .04$
$V_D = 40$ MPH	$V_D = 40$ MPH	$V_D = 40$ MPH

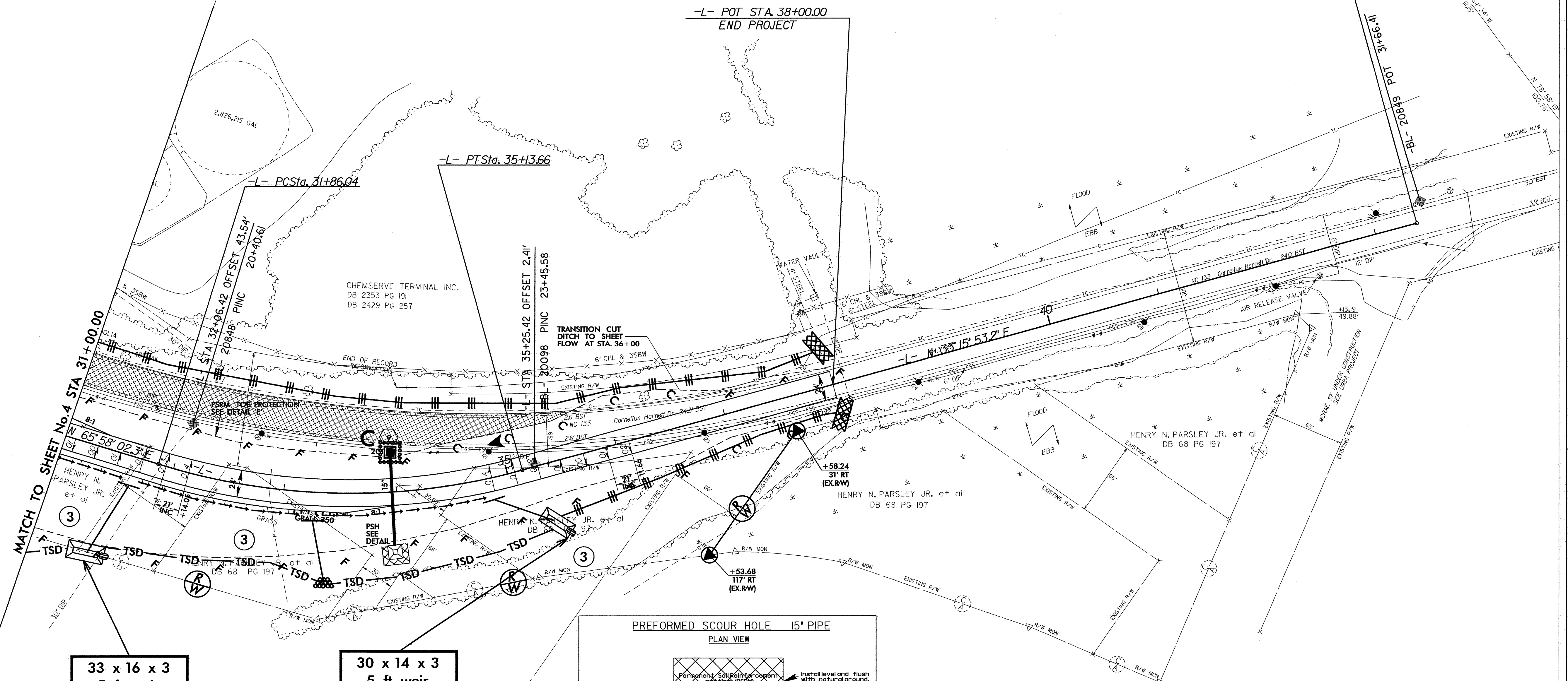
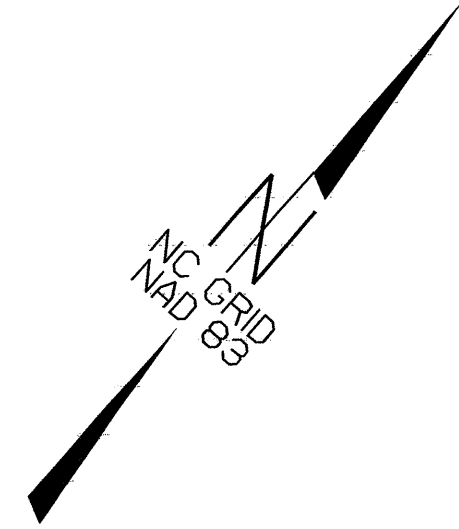
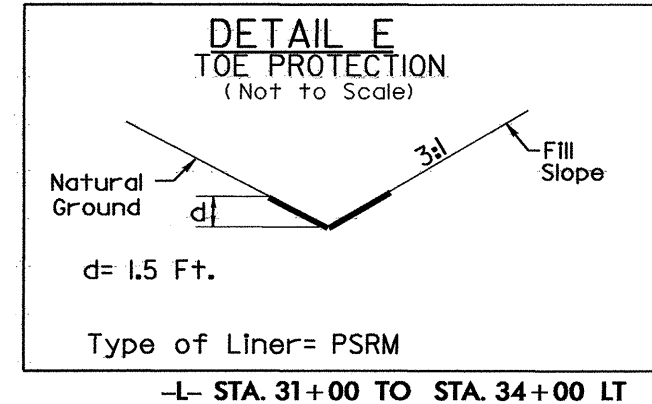


FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-4
FOR -L- PROFILE SEE SHEET 6
FOR -YI- PROFILE SEE SHEET 6

PROJECT REFERENCE NO. B-3881	SHEET NO. EC-7/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

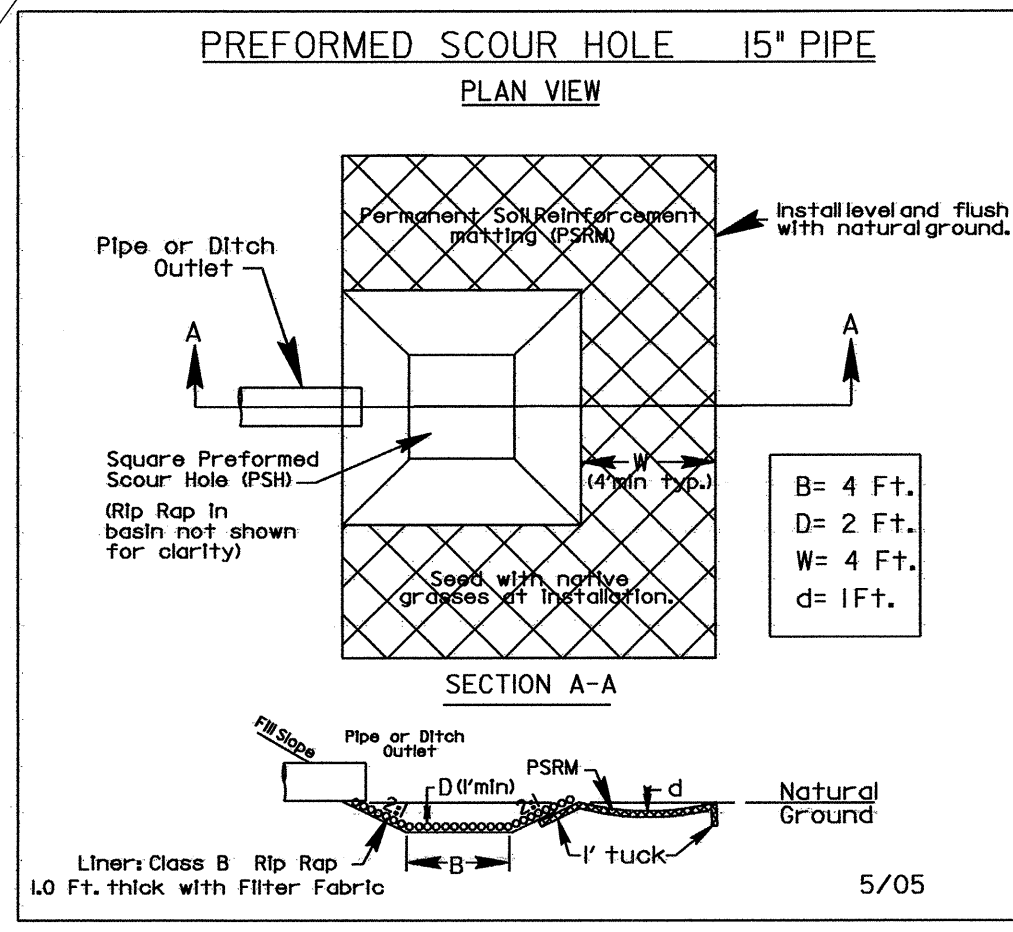
L

PI Sta 33+54.45
 $\Delta = 32^{\circ} 42' 09.1''$ (LT)
 D = 9' 58" 54.6"
 L = 327.62'
 T = 168.41'
 R = 574.00'
 SE = .04
 V_D = 40 MPH



33 x 16 x 3
5 ft. weir
 (See Infiltration
 Basin Detail)
ID 5.1C

30 x 14 x 3
5 ft. weir
 (See Infiltration
 Basin Detail)
ID 5.2C



PAVEMENT REMOVAL

FOR -Y1- PROFILE SEE SHEET 6
 FOR -L- PROFILE SEE SHEET 6