

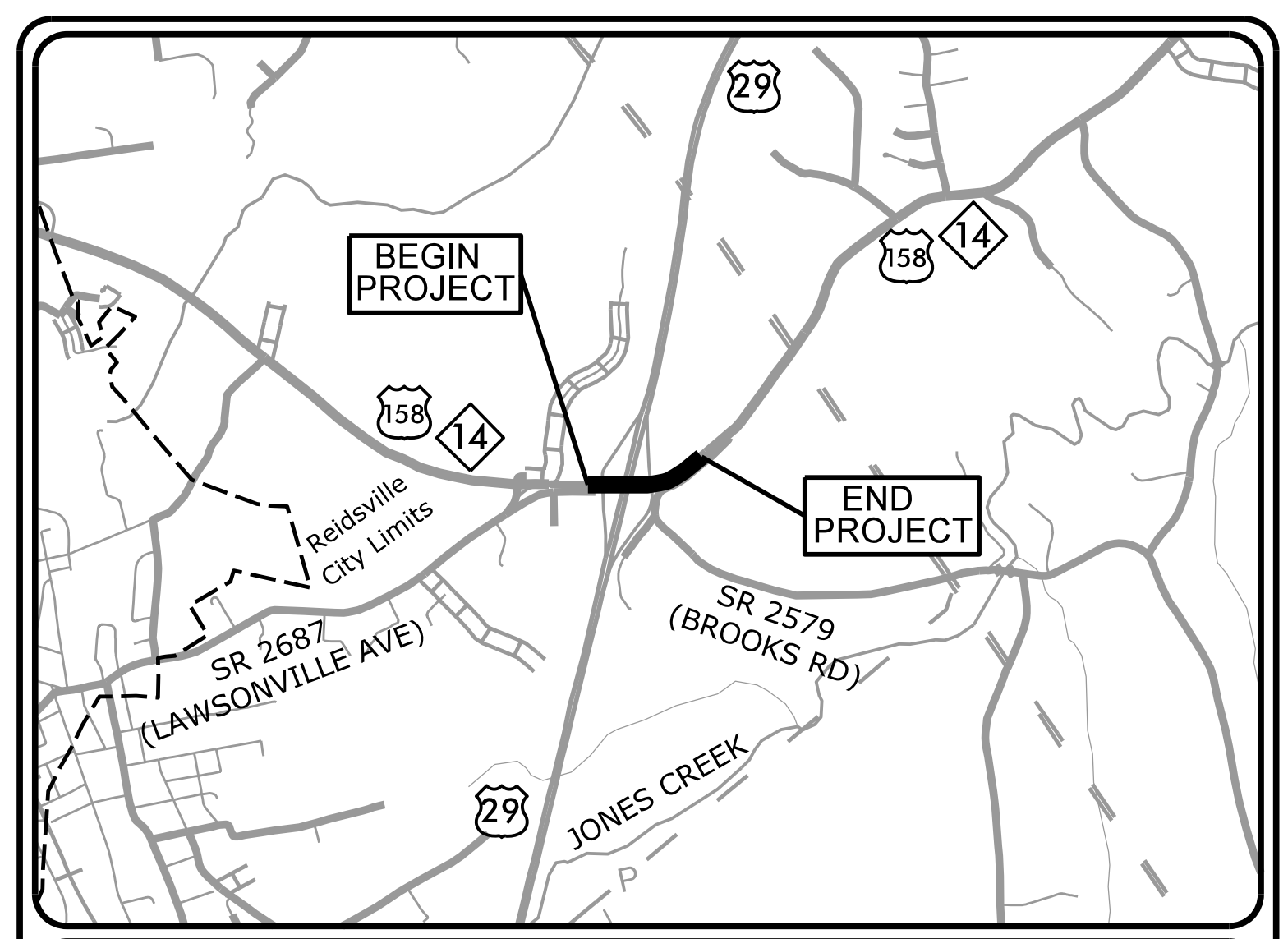
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0043	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67043.1.1		PE	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ROCKINGHAM COUNTY

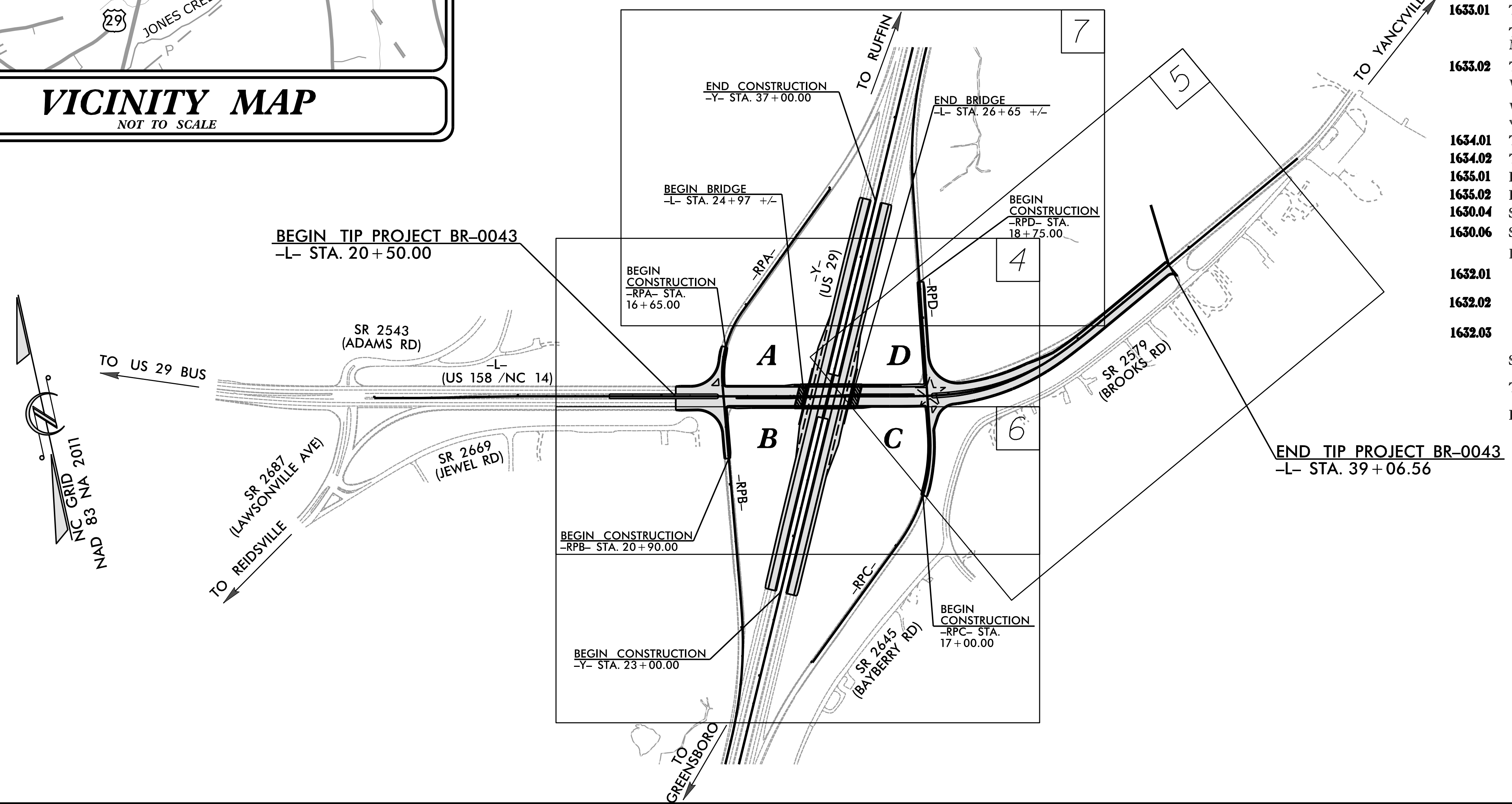
LOCATION: REPLACE BRIDGE 780151 ON US 158 / NC 14 OVER US 29
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNAL, AND STRUCTURE



VICINITY MAP
NOT TO SCALE

TIP PROJECT: BR-0043

CONTRACT: C204793

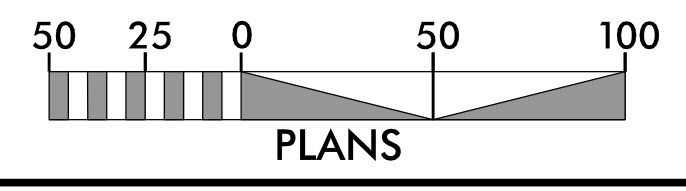


EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
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	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

GRAPHIC SCALES



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared in the Office of:
AECOM
Firm License No. F-0342
5438 Wade Park Boulevard, Suite 200
Raleigh, NC 27607
+1-919-461-1100

Designed by:
RENE REMY, CPESC, CPSWQ 3125
NAME LEVEL III CERTIFICATION NO.

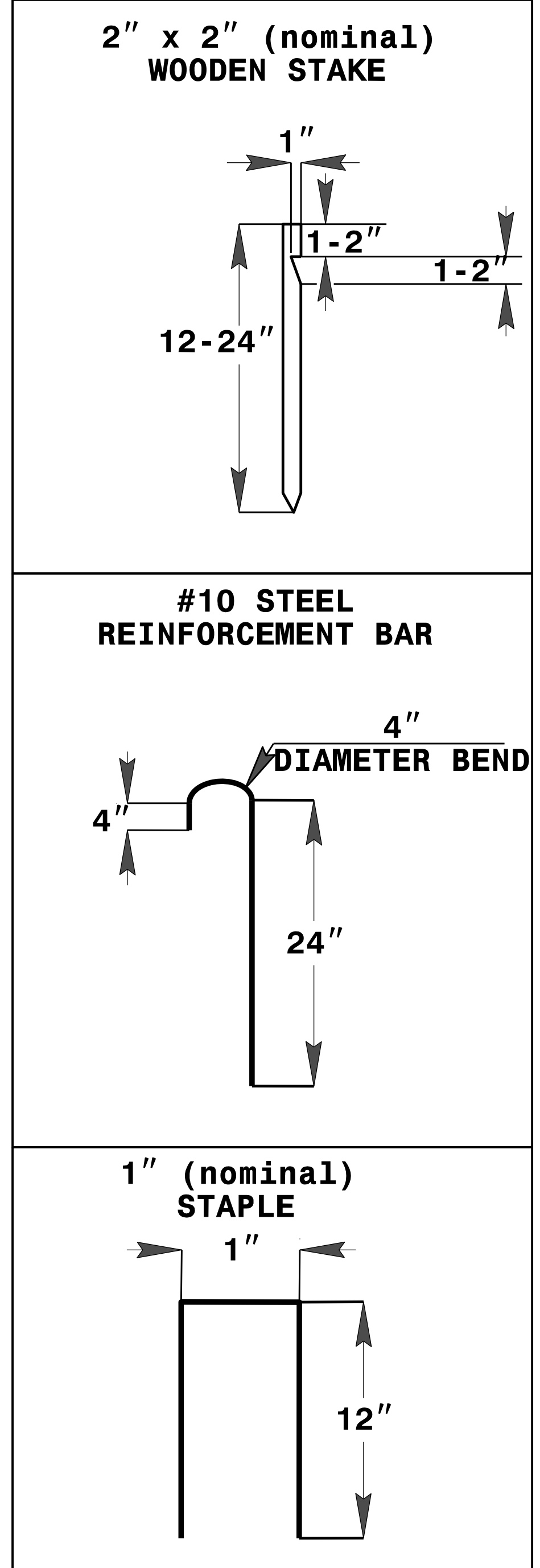
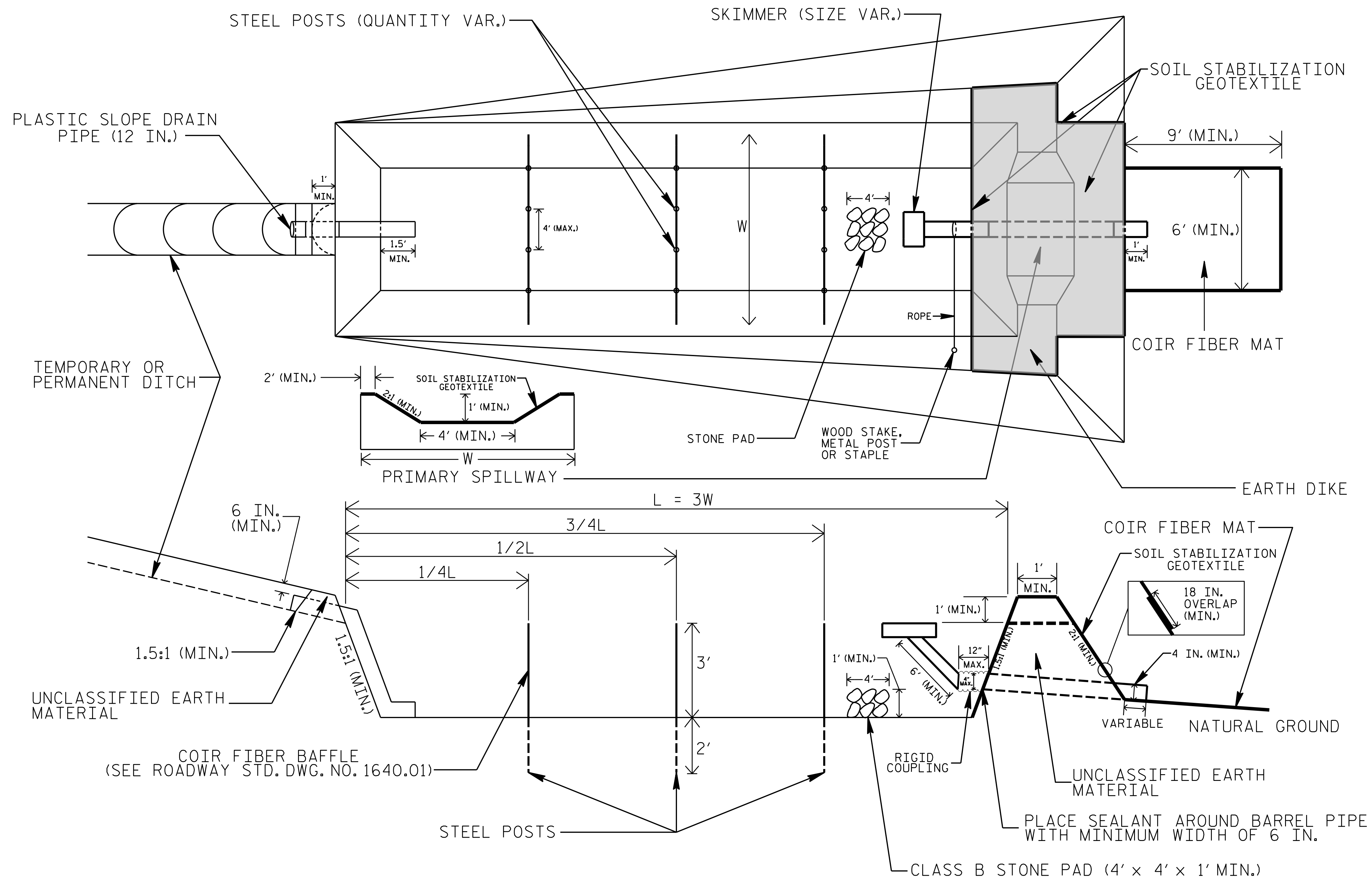
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 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	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
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	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

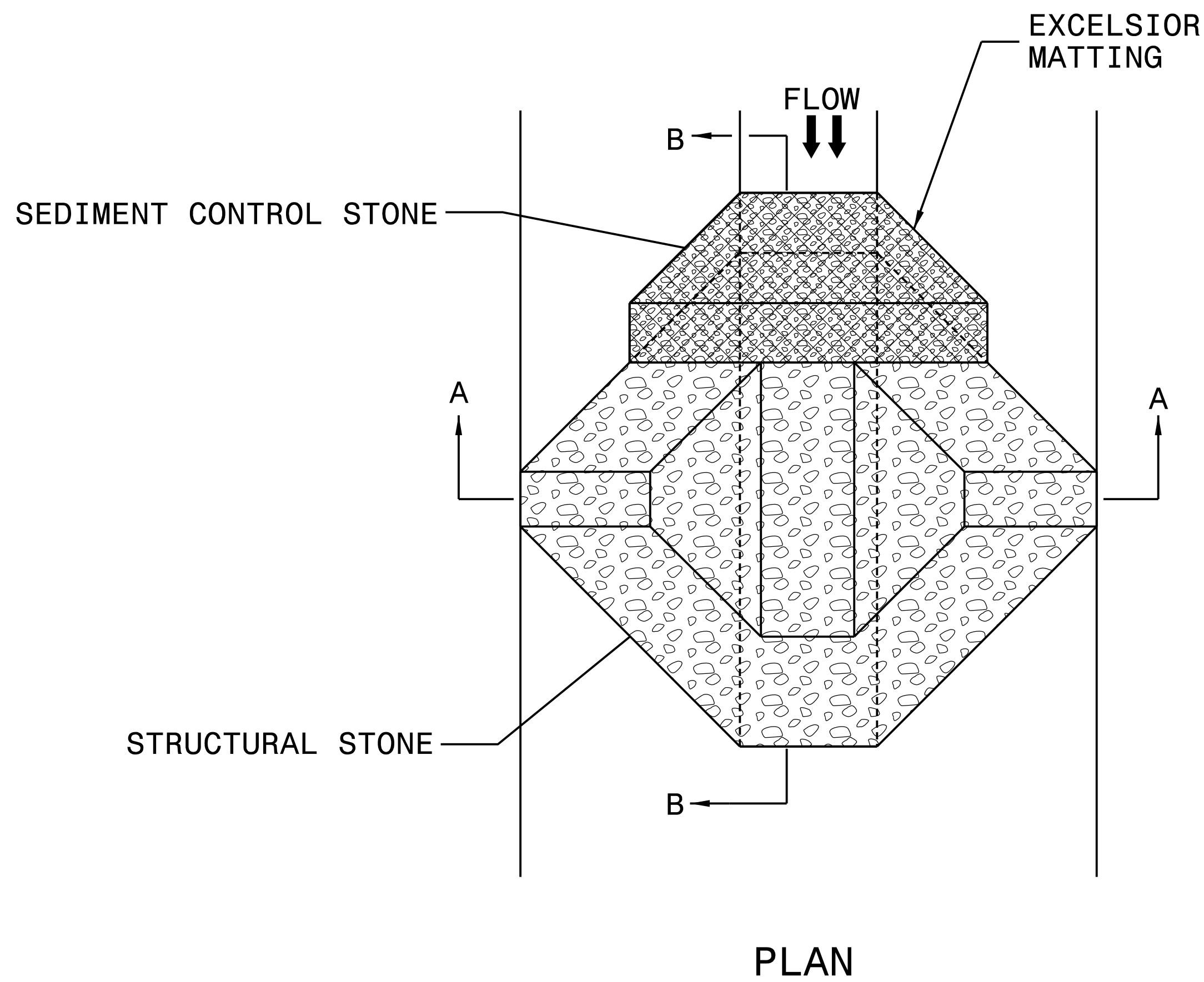
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

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TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



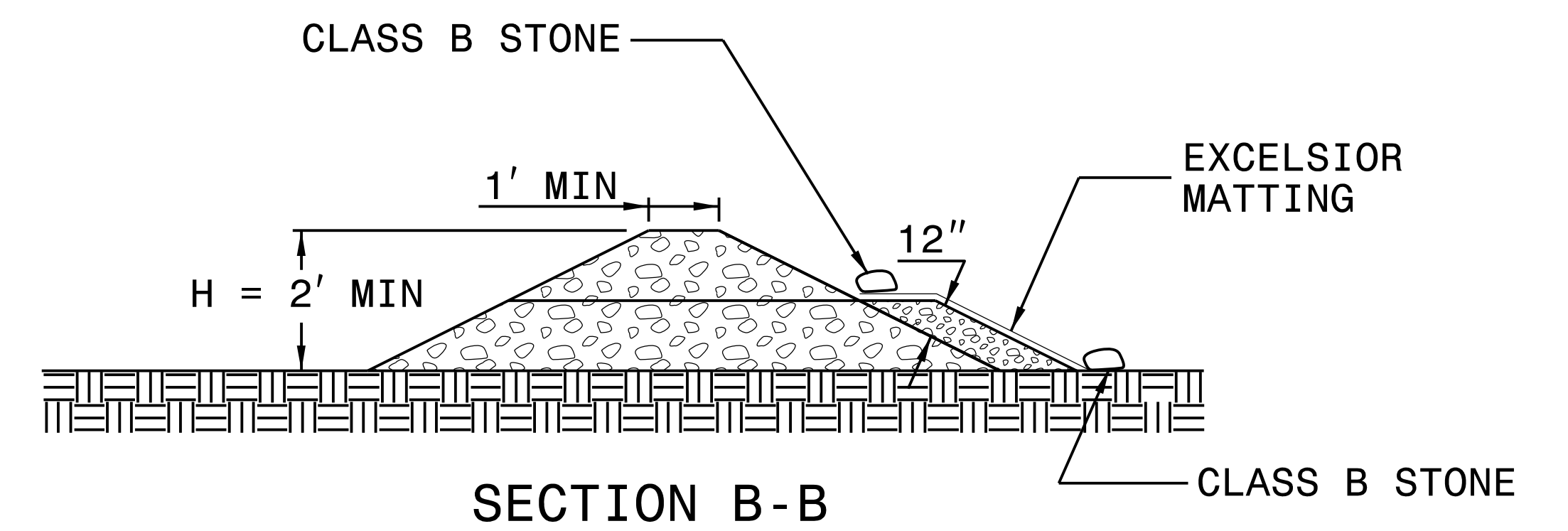
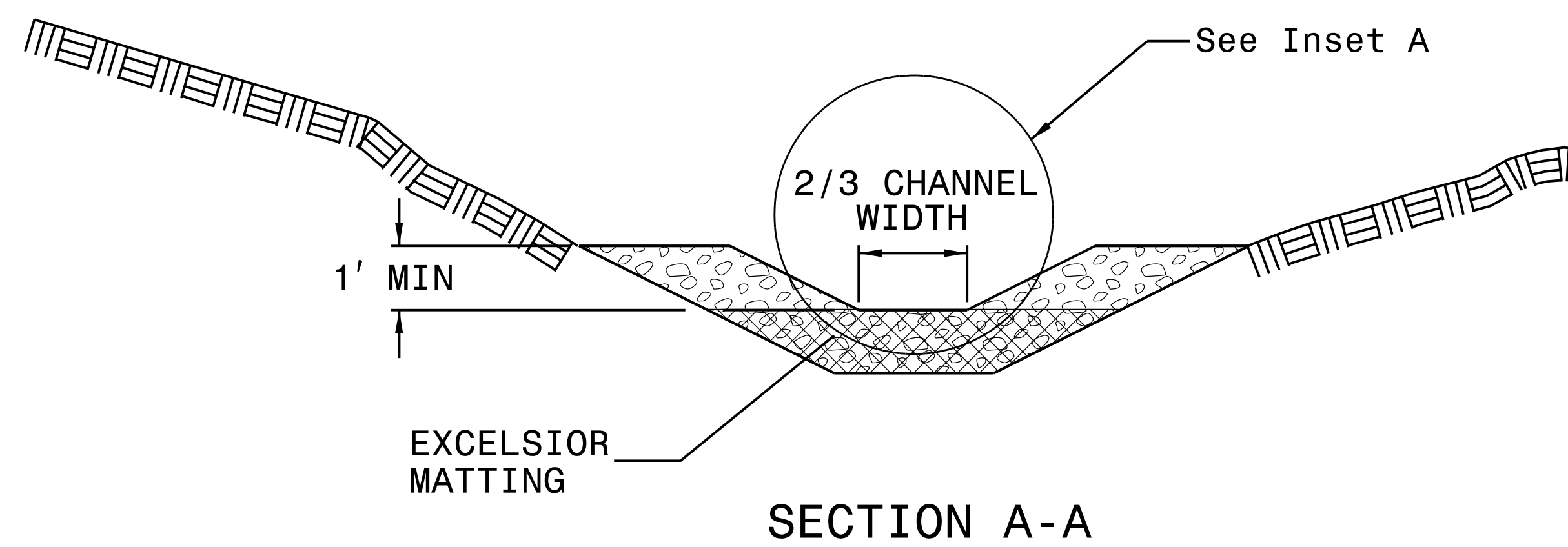
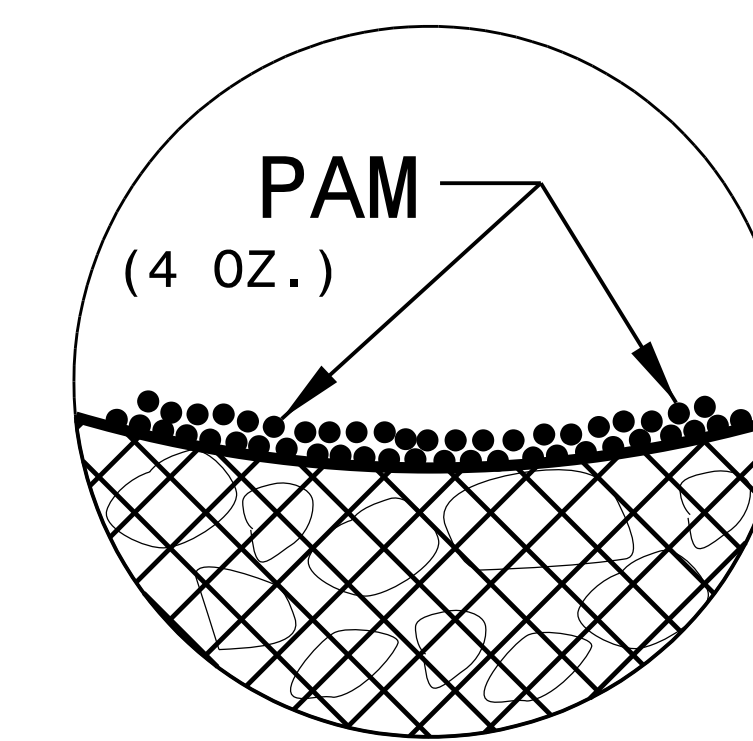
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

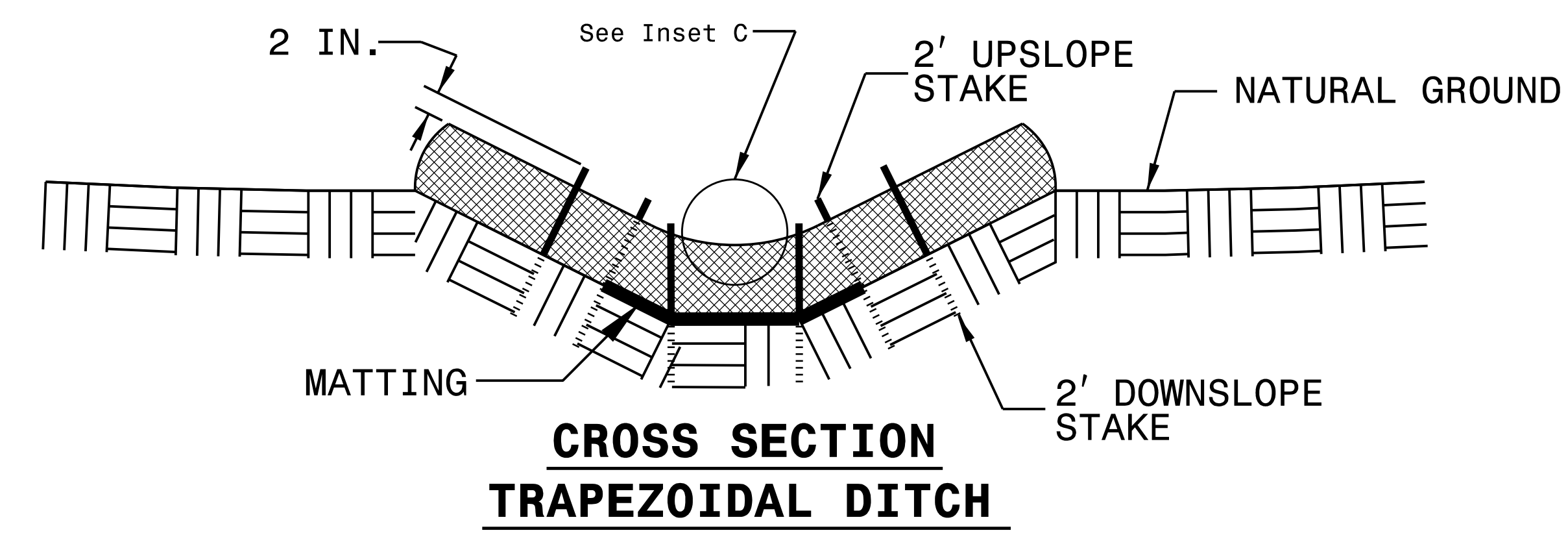
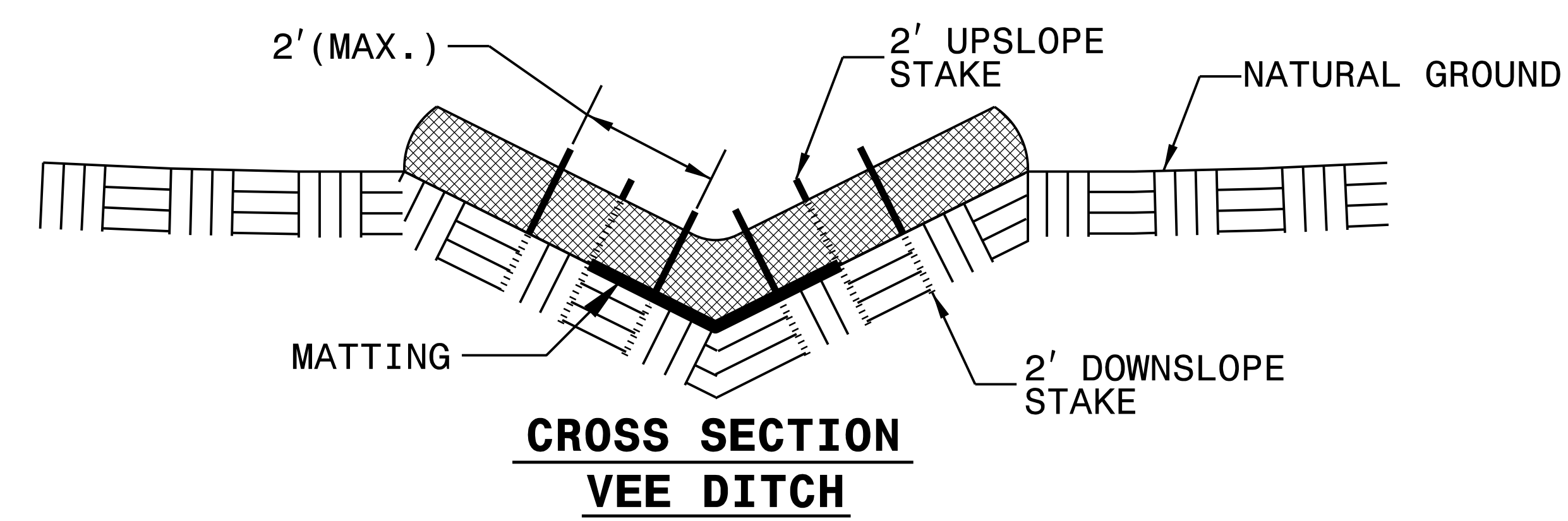
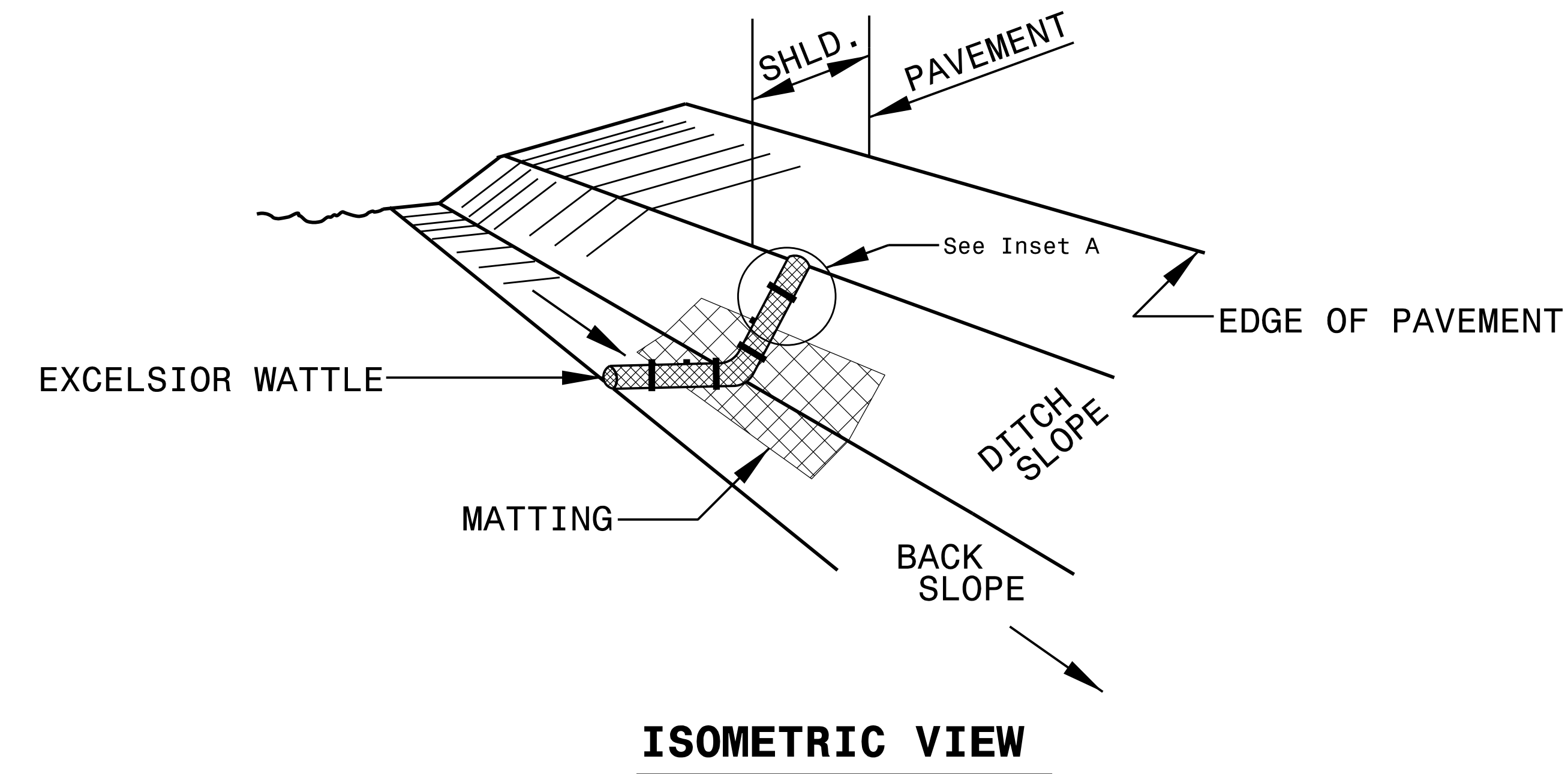
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



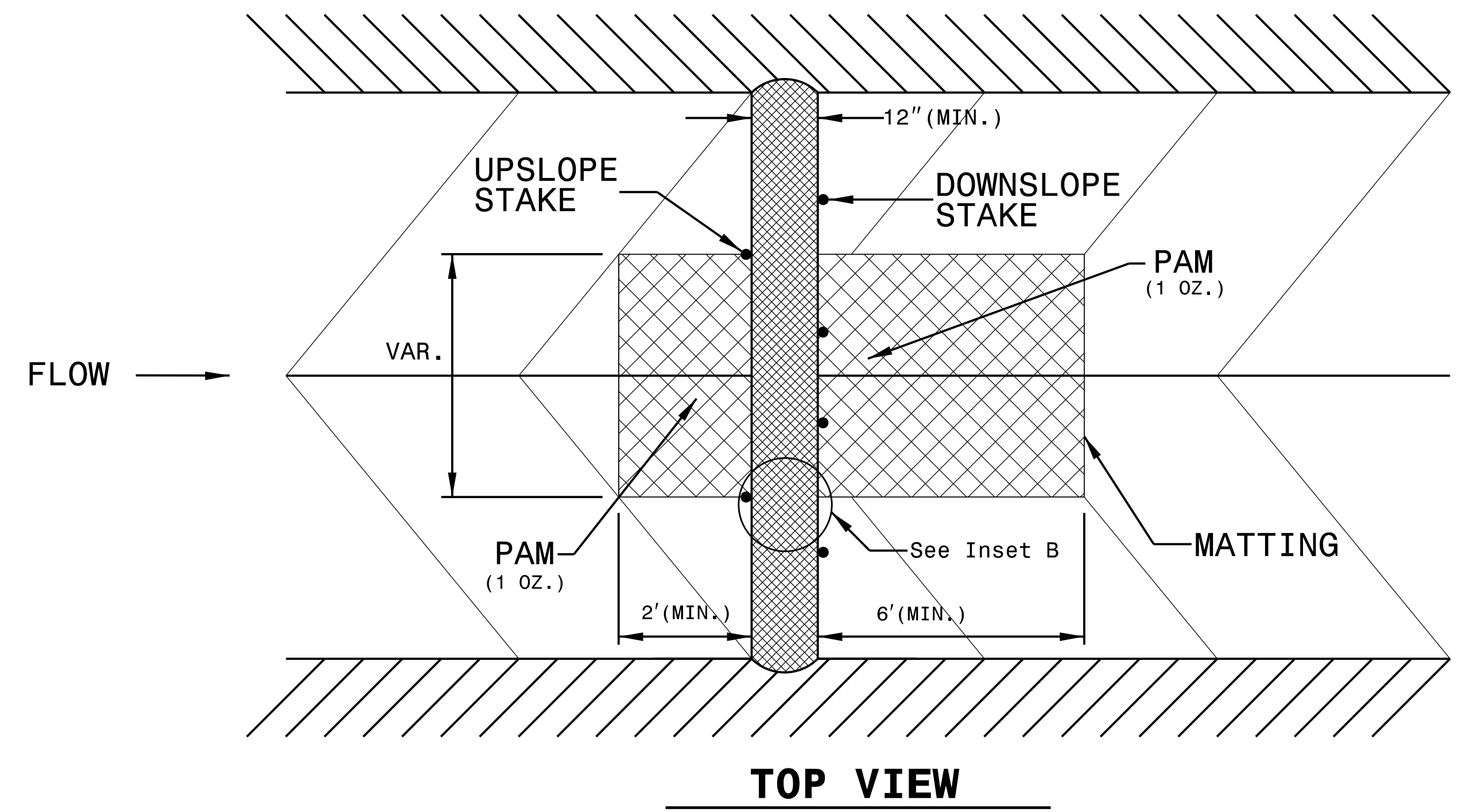
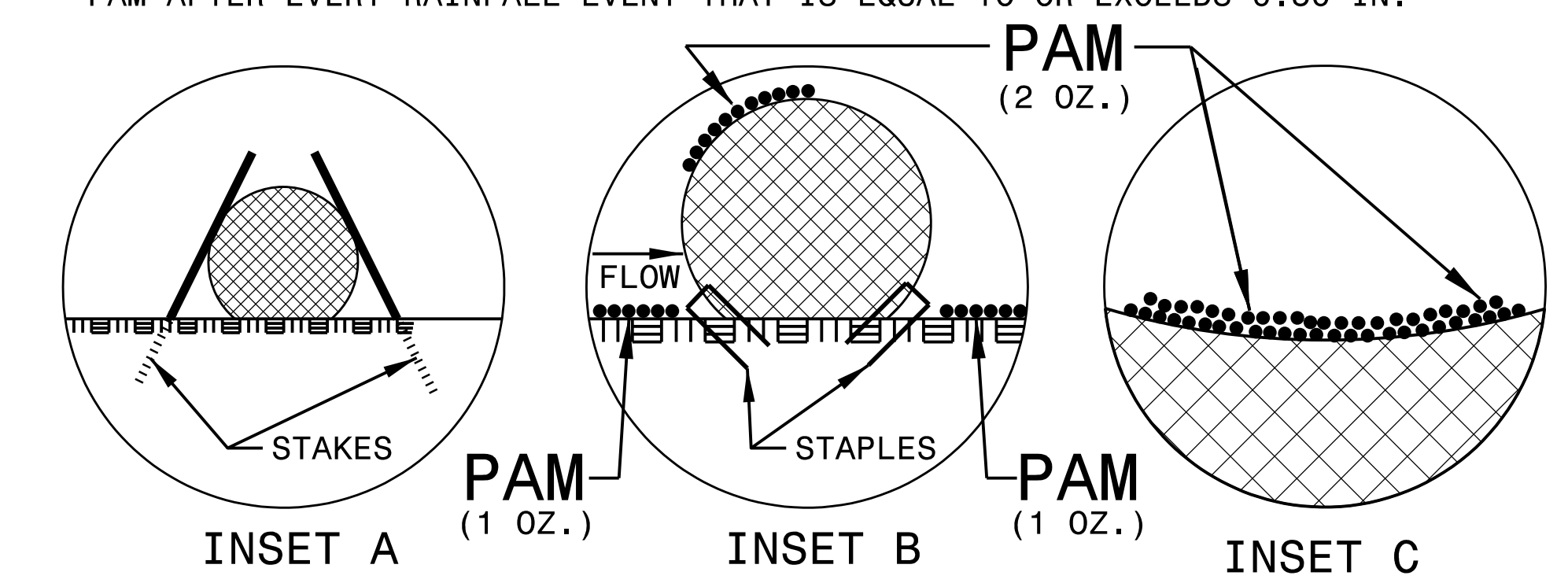
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I:\0419-AM
OT SWU BR-0043-000-CAD GIS\910-CAD\70-NC001-TIP\Erosion Control\Design\230-BR-0043-EC-02A-TRAC A with PAM Detail.dgn

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

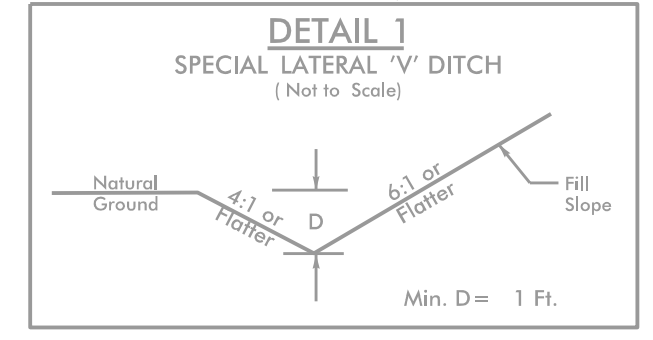


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 11/10/05
 BR-0043
 4105-CAD

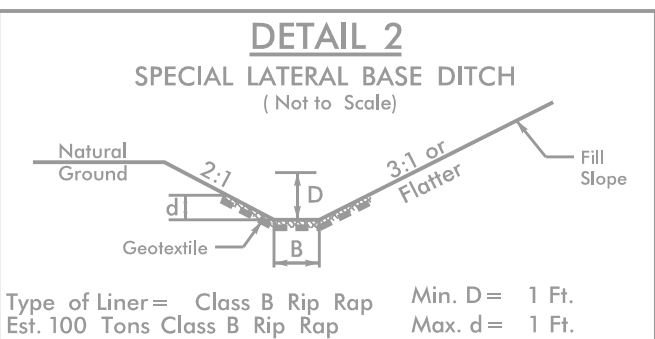
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.



76' x 37' x 3'
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
11 ft. weir
ID 4.1



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

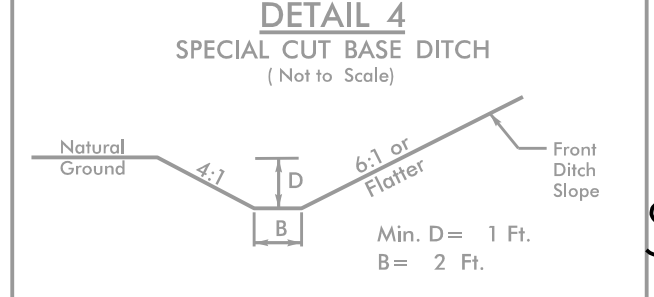
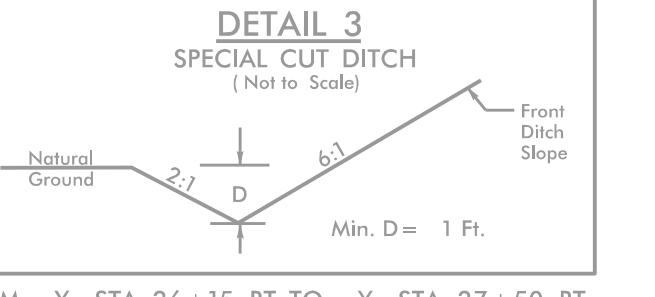
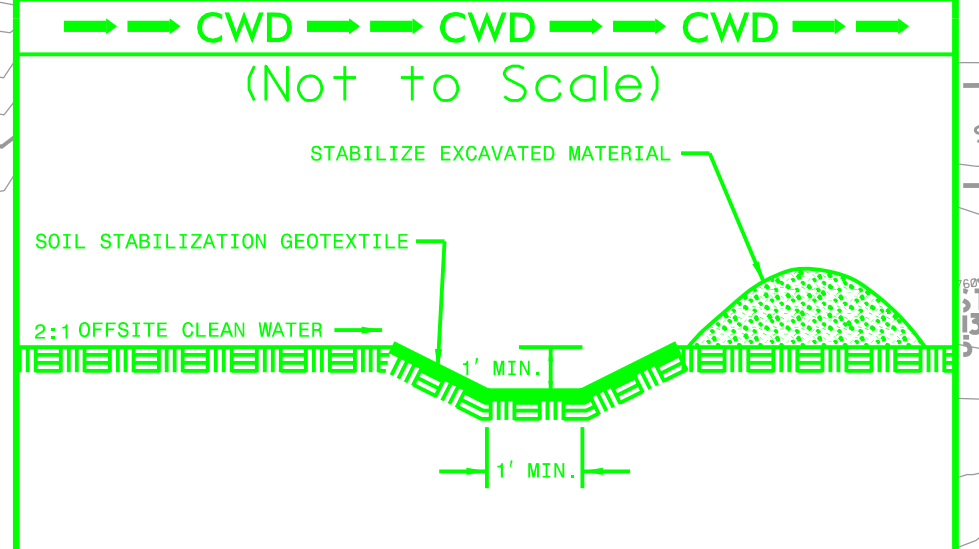
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

FROM -RPD- STA. 19+77 LT TO -RPD- STA. 22+00 LT

BEGIN CONSTRUCTION
-RPA- POC STA.16+65.00

BEGIN TIP PROJECT BR-0043
-L- POT STA.18+19.00

CLEAN WATER DIVERSION
(Not to Scale)



MATCHLINE
-RPB- STA.
19+00.00
SEE SHEET 6

MATCHLINE -Y- STA.25+50.00
SEE SHEET 6

77' x 38' x 3'
1.5 inch Skimmer
with 1.50 inch
Orifice Diameter
11 ft. weir
ID 6.1

MATCHLINE -RPD-
STA.18+30.00
SEE SHEET 7

MATCHLINE -Y- STA.34+50.00
SEE SHEET 7

64' x 32' x 3'
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 4.2

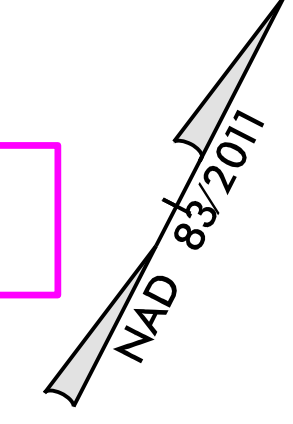
MATCHLINE -SEE SHEET
-STA.32+00.00

FOR -L- PROFILE SEE SHEET 8
FOR -Y-RT- PROFILE SEE SHEET 9
FOR -Y-LT- PROFILE SEE SHEET 10
FOR -RPA-, -RPB-, -RPC-, -RPD- PROFILE SEE SHEET 11

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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

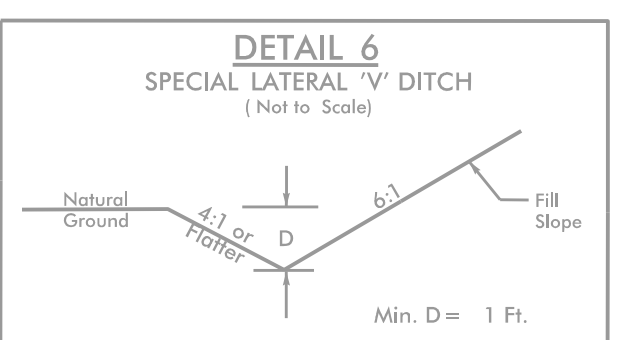
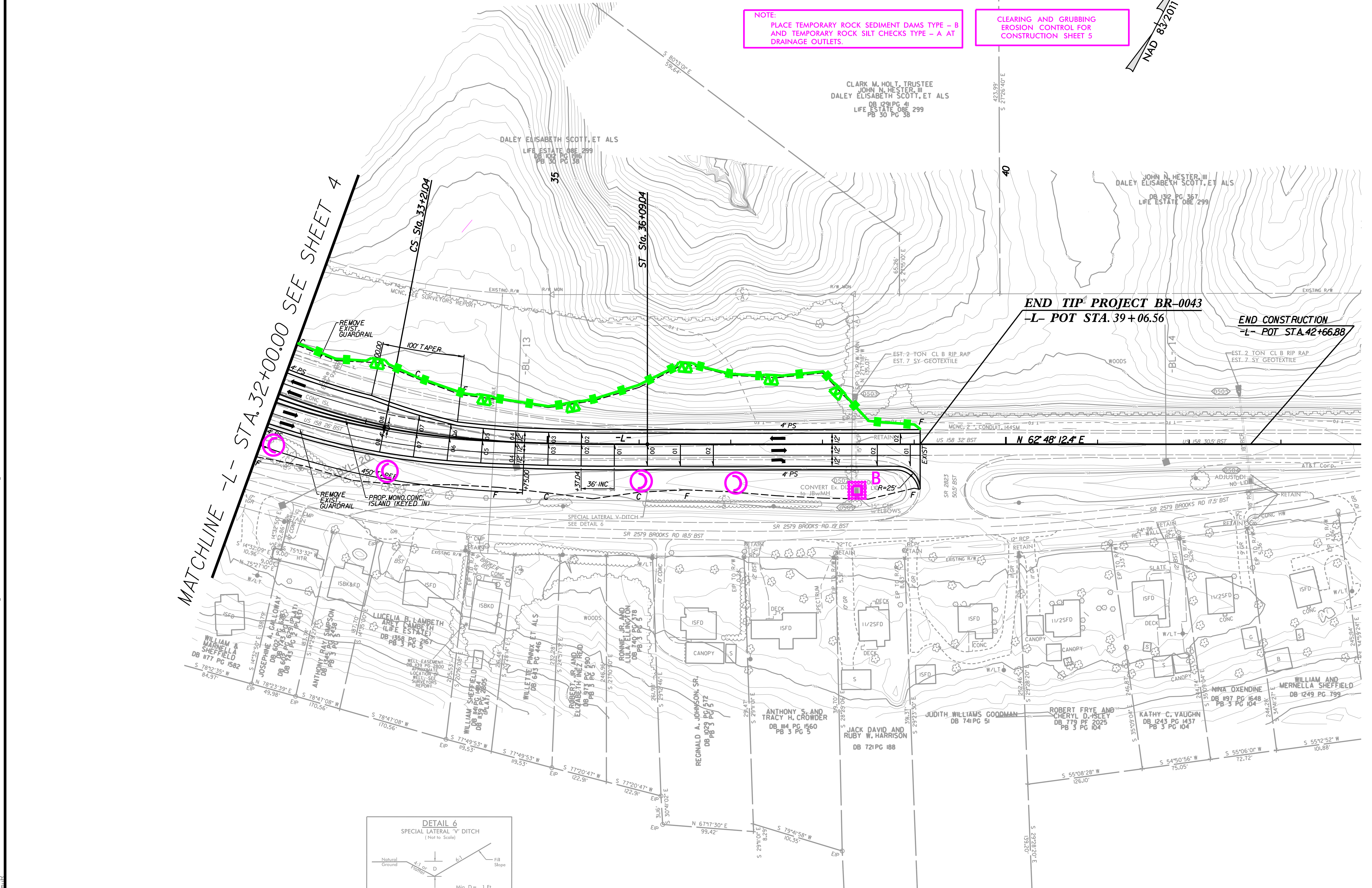


MATCHLINE -L- STA. 32+00.00 SEE SHEET 4

END TIP PROJECT BR-0043
-L- POT STA. 39+06.56

END CONSTRUCTION
-L- POT STA. 42+66.88

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FROM -L- STA. 35+50 RT TO -L- STA. 36+50 RT

FOR -L- PROFILE SEE SHEET 8

NAD 83/2011

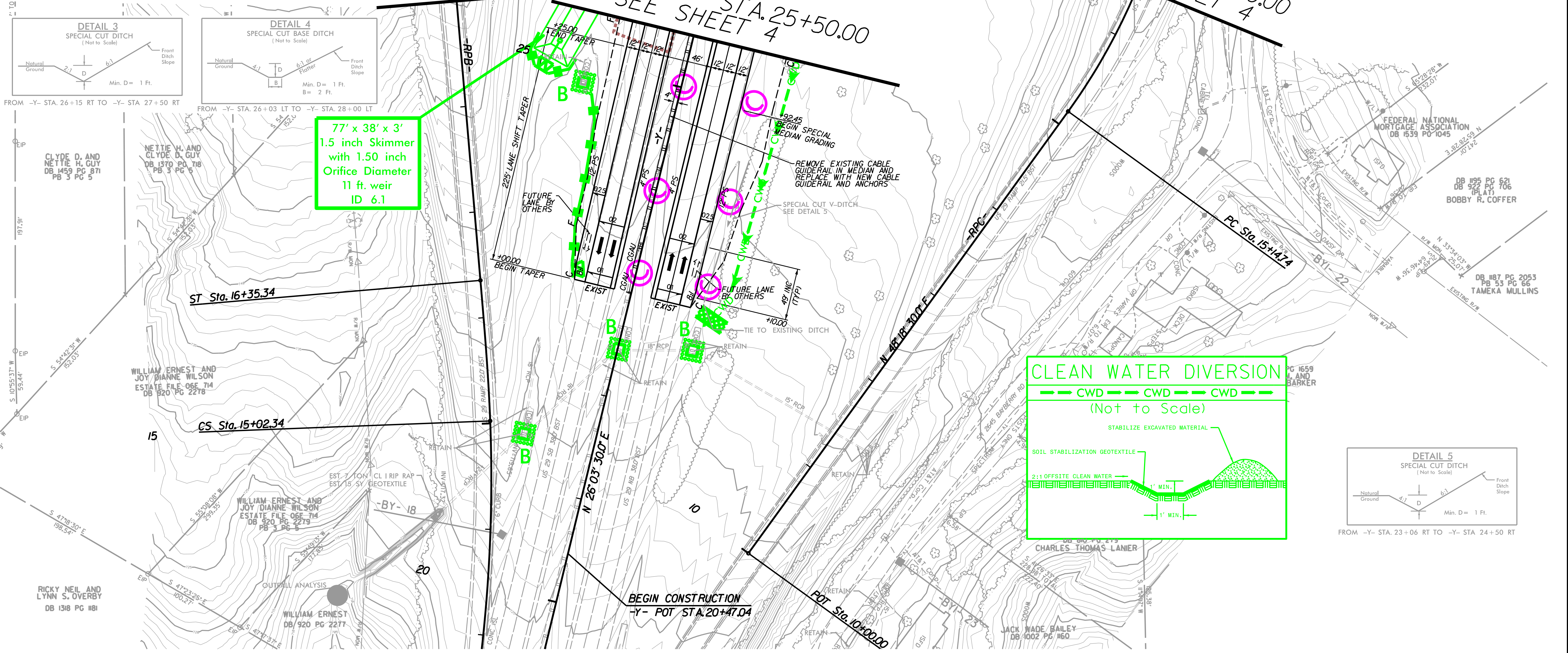
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

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

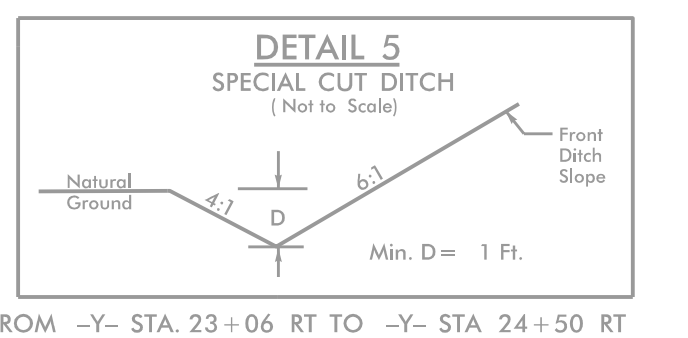
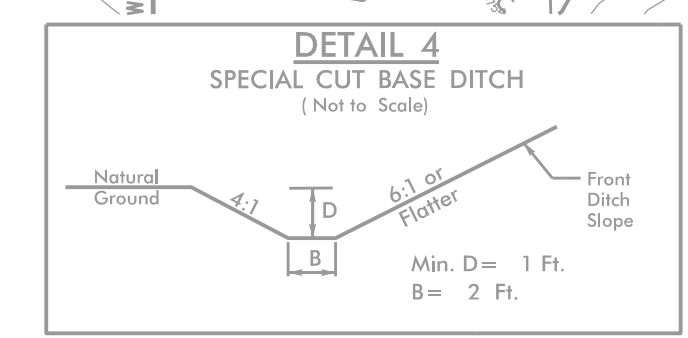
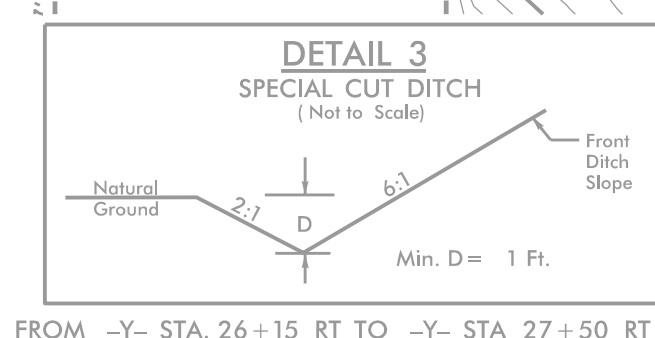
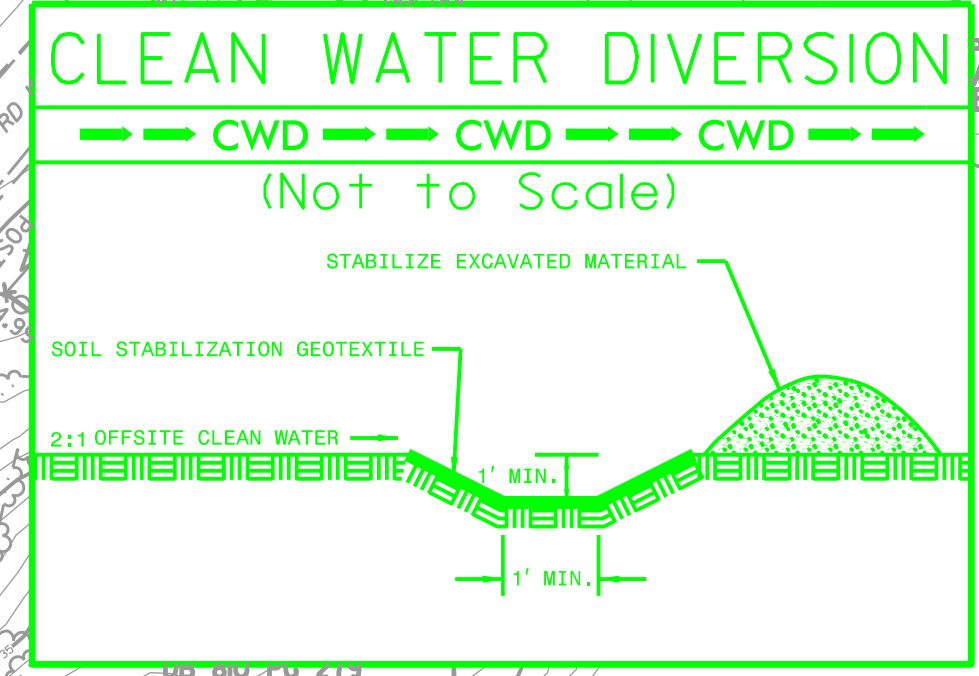
MATCHLINE
-RPB- STA.
19+00.00
SEE SHEET 4

MATCHLINE -Y- STA. 25+50.00
SEE SHEET 4

MATCHLINE
-RPC- STA. 16+50.00
SEE SHEET 4



77' x 38' x 3'
1.5 inch Skimmer
with 1.50 inch
Orifice Diameter
11 ft. weir
ID 6.1

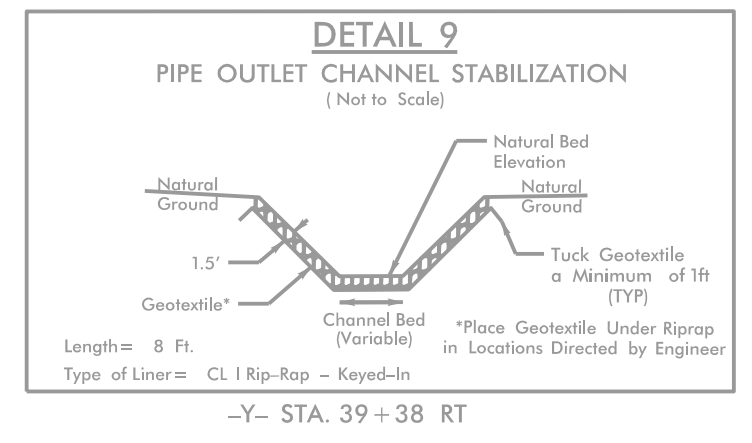
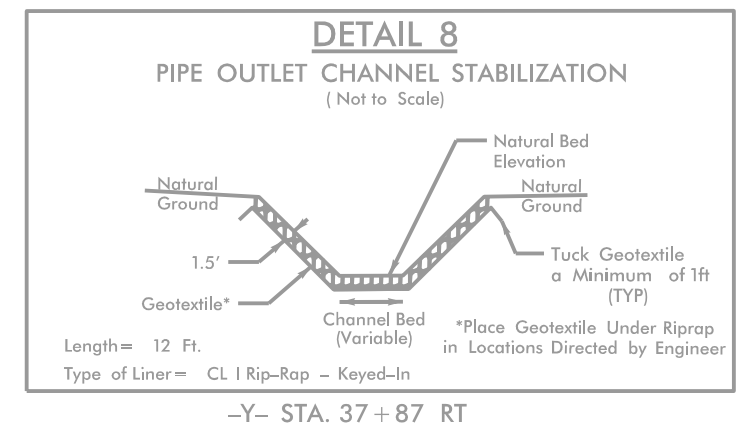
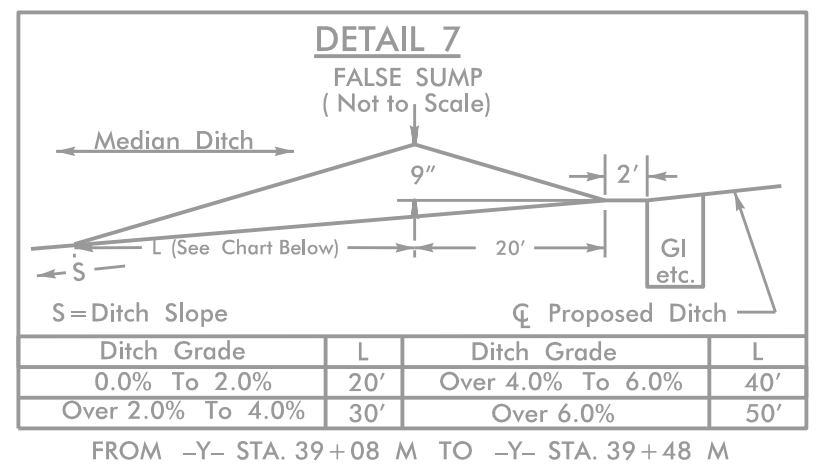


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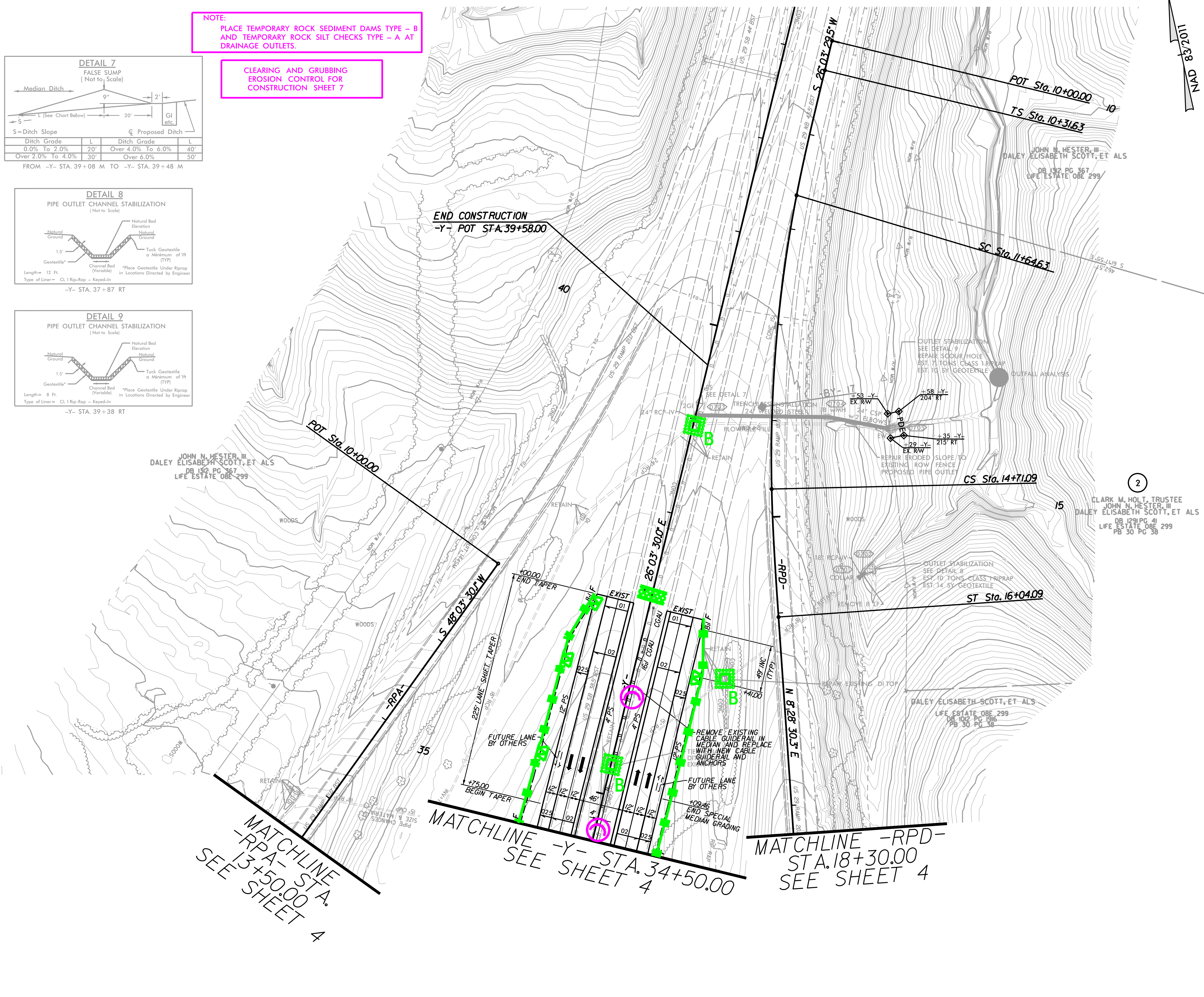
NAD 83/2011

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 7



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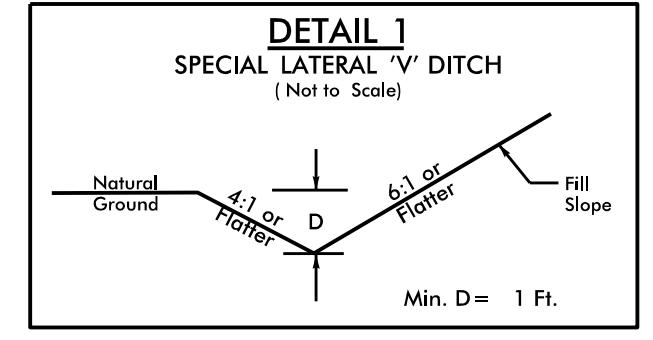


MATCHLINE -RPA- STA. 13+50.00
SEE SHEET 4

MATCHLINE -Y- STA. 34+50.00
SEE SHEET 4

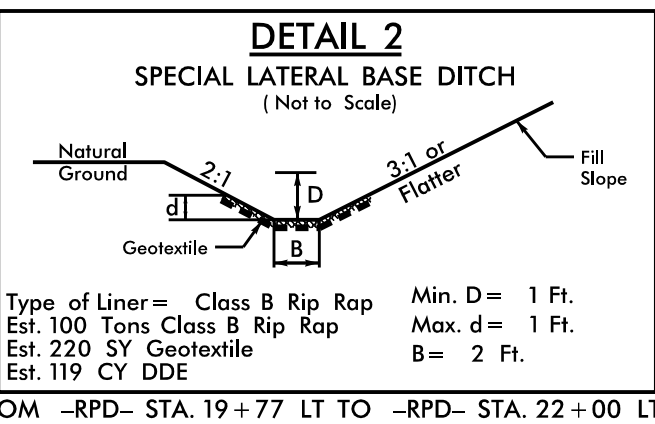
MATCHLINE -RPD- STA. 18+30.00
SEE SHEET 4

FOR -L- PROFILE SEE SHEET 6
FOR -Y-RT- PROFILE SEE SHEET 9
FOR -Y-LT- PROFILE SEE SHEET 10
FOR -RPD- PROFILE SEE SHEET 11



FROM -L- STA. 20+50 RT TO -L- STA. 21+50 RT
 FROM -RPA- STA. 16+70 RT TO -RPA- STA. 17+00 RT
 FROM -RPB- STA. 20+68 LT TO -RPB- STA. 21+00 LT

76' x 37' x 3'
 1.5 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 11 ft. weir
 ID 4.1



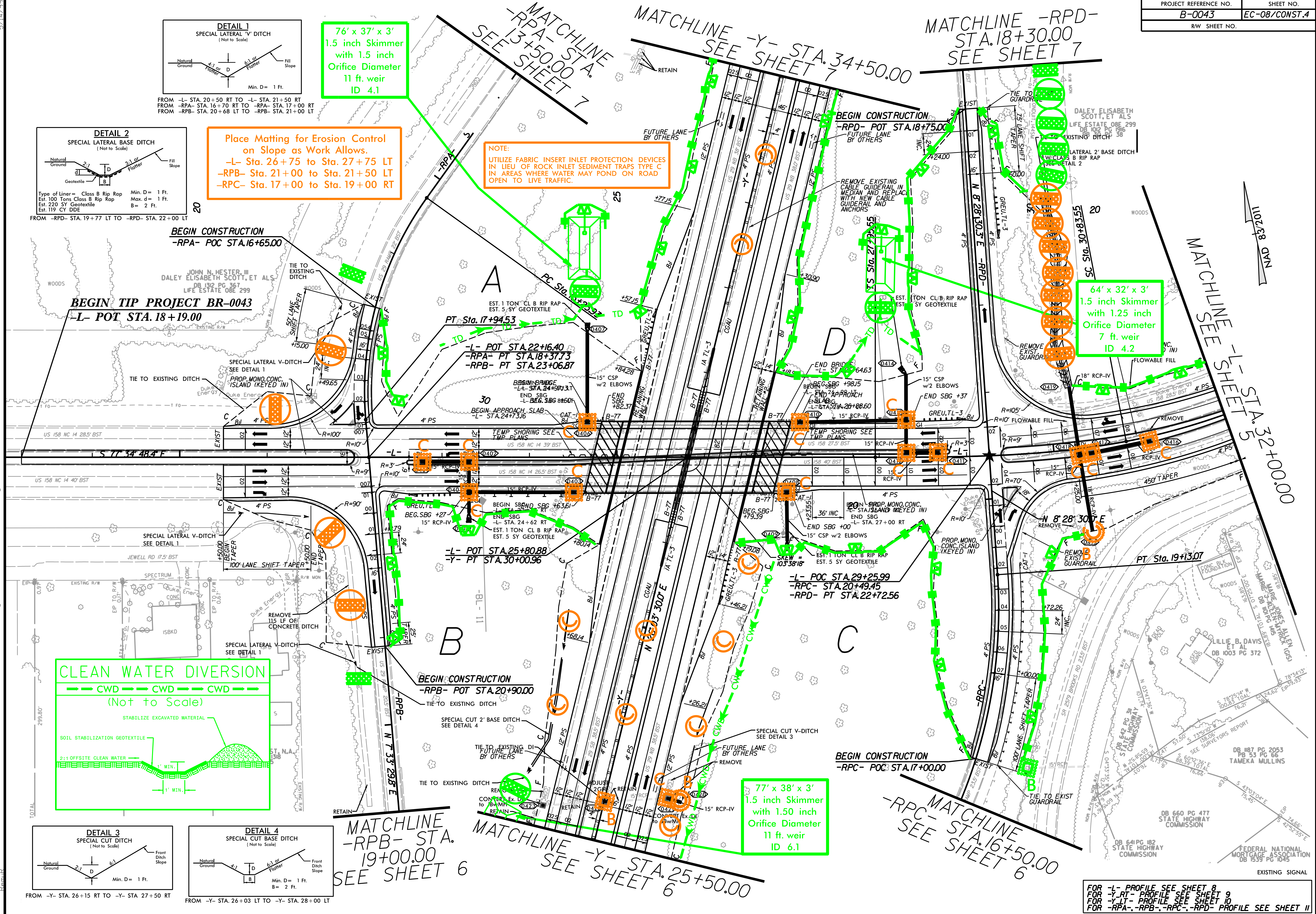
Place Matting for Erosion Control
 on Slope as Work Allows.
 -L- Sta. 26+75 to Sta. 27+75 LT
 -RPB- Sta. 21+00 to Sta. 21+50 LT
 -RPC- Sta. 17+00 to Sta. 19+00 RT

NOTE:
 UTILIZE FABRIC INSERT INLET PROTECTION DEVICES
 IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE C
 IN AREAS WHERE WATER MAY POND ON ROAD
 OPEN TO LIVE TRAFFIC.

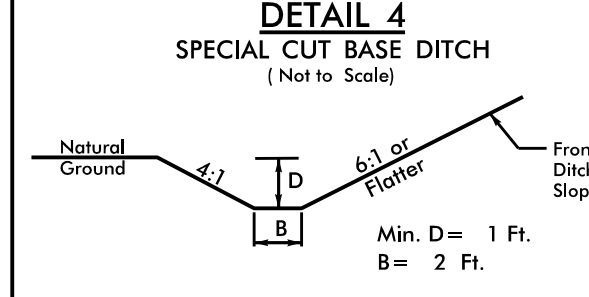
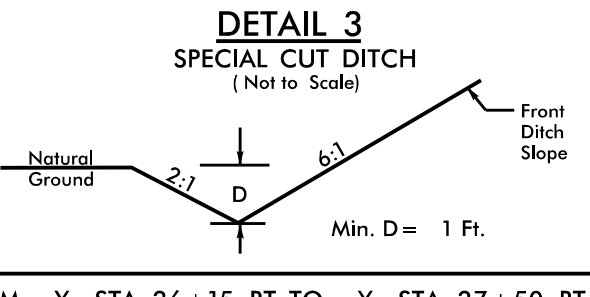
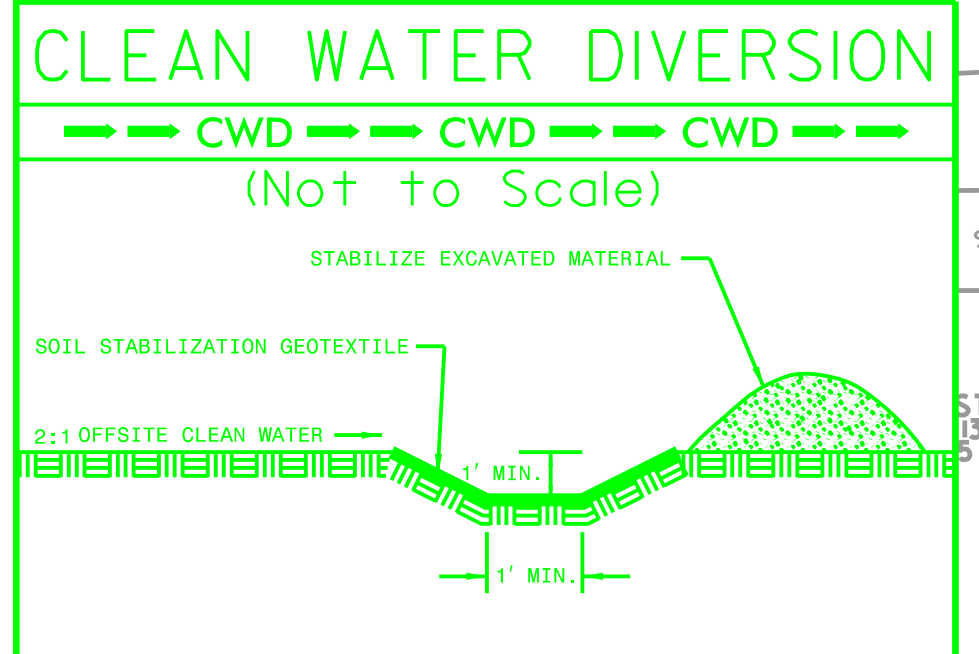
MATCHLINE -RPA- STA. 13+50.00
 SEE SHEET 7

MATCHLINE -Y- STA. 34+50.00
 SEE SHEET 7

MATCHLINE -RPD- STA. 18+30.00
 SEE SHEET 7



64' x 32' x 3'
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 7 ft. weir
 ID 4.2



MATCHLINE -RPB- STA. 19+00.00
 SEE SHEET 6

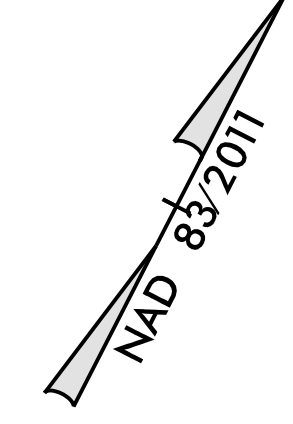
MATCHLINE -Y- STA. 25+50.00
 SEE SHEET 6

MATCHLINE -RPC- STA. 16+50.00
 SEE SHEET 6

77' x 38' x 3'
 1.5 inch Skimmer
 with 1.50 inch
 Orifice Diameter
 11 ft. weir
 ID 6.1

FOR -L- PROFILE SEE SHEET 8
 FOR -Y-RT- PROFILE SEE SHEET 9
 FOR -Y-LT- PROFILE SEE SHEET 10
 FOR -RPA-, -RPB-, -RPC-, -RPD- PROFILE SEE SHEET 11

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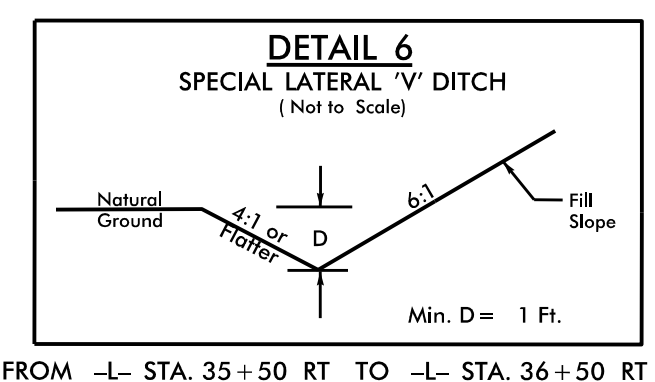
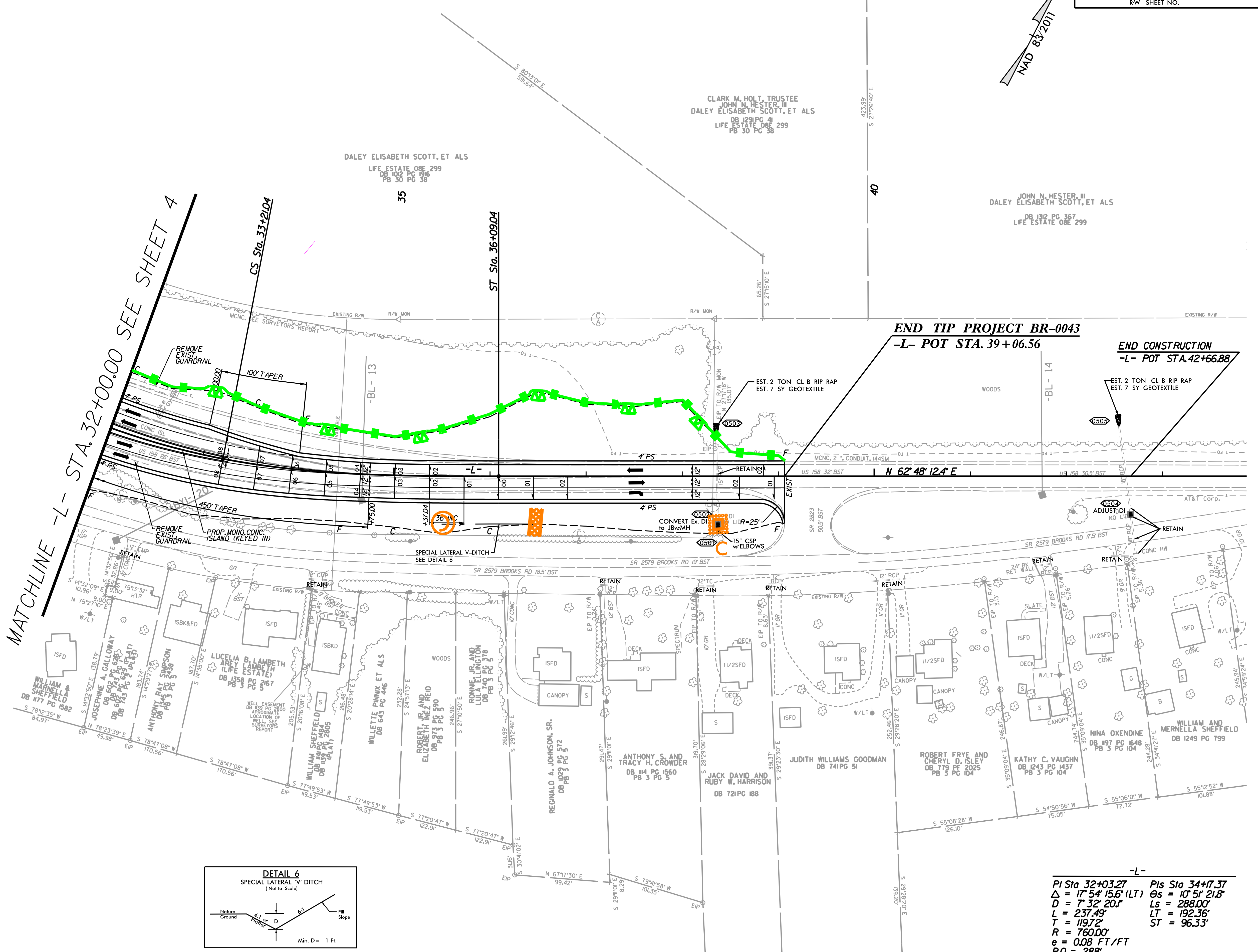
MATCHLINE -L- STA. 32+00.00 SEE SHEET 4

CS Sta. 33+21.04

ST Sta. 36+09.04

END TIP PROJECT BR-0043
-L- POT STA. 39+06.56

END CONSTRUCTION
-L- POT STA. 42+66.88



-L-

PI Sta 32+03.27	PIs Sta 34+17.37
$\Delta = 17' 54'' 15.6'' (LT)$	$\Theta s = 10' 51'' 21.8''$
$D = 7' 32'' 20.1''$	$Ls = 288.00'$
$L = 237.49'$	$LT = 192.36'$
$T = 119.72'$	$ST = 96.33'$
$R = 760.00'$	
$e = 0.08 FT/FT$	
$R.O. = 288'$	

FOR -L- PROFILE SEE SHEET 8

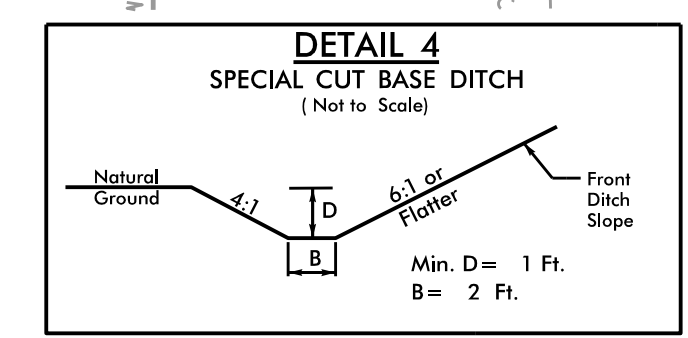
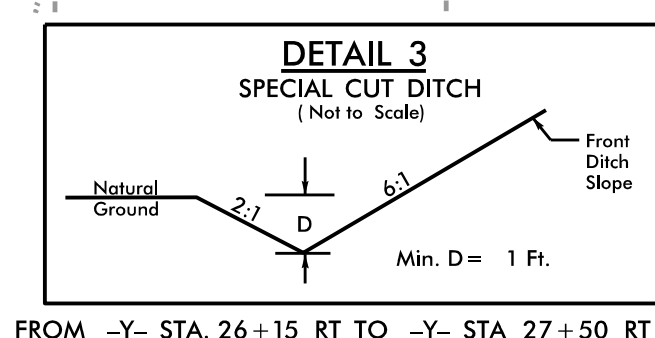
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581578-NCDOT-0043-900-CAD 01S\910-CAD-70-NCDOT-TIP-Erosion Control\Design\230-BR0043-EC-P5H09-F.G.dgn

NAD 83/2011

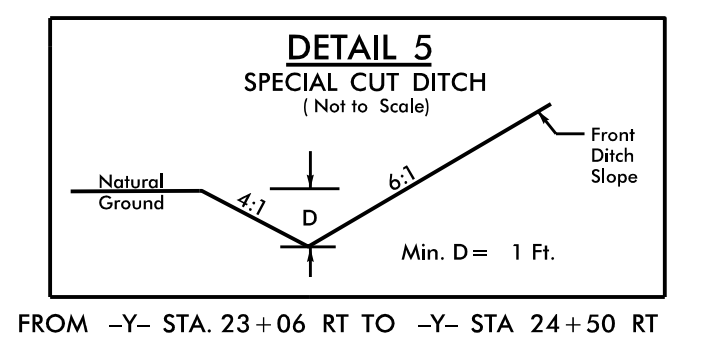
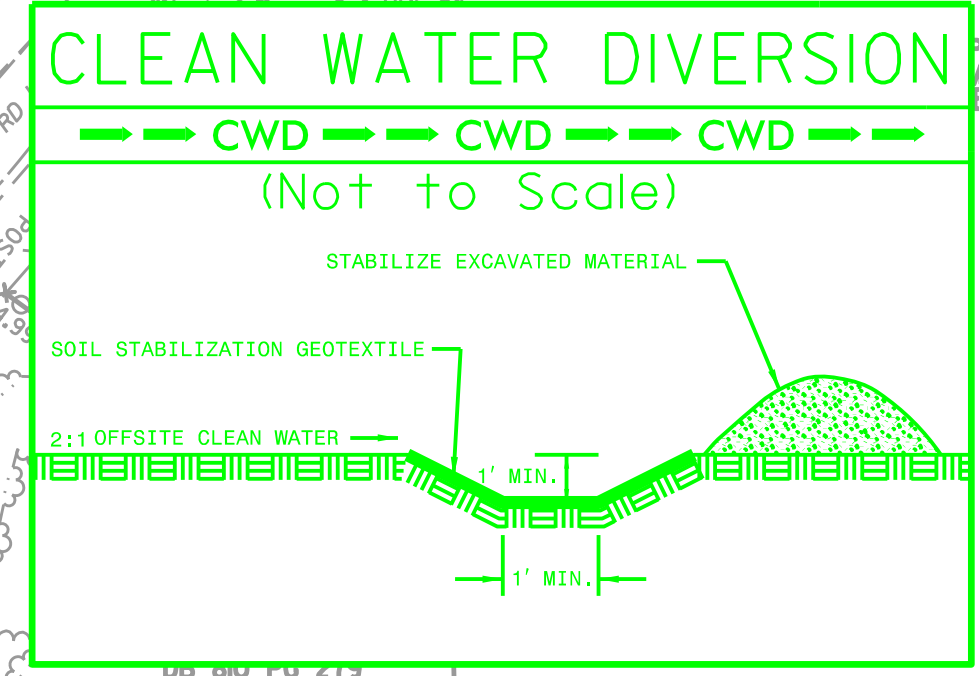
MATCHLINE
-RPB- STA.
19+00.00
SEE SHEET 4

MATCHLINE -Y- STA. 25+50.00
SEE SHEET 4

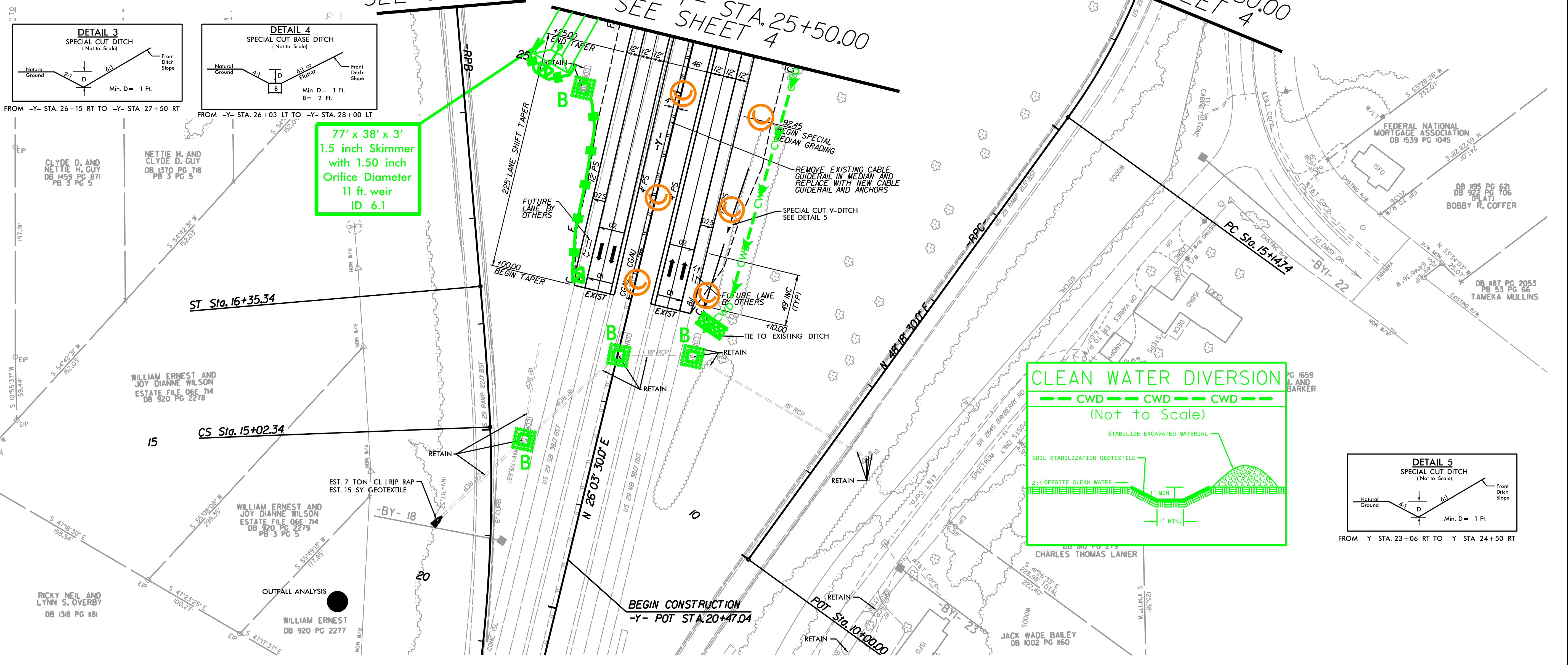
MATCHLINE
-RPC- STA. 16+50.00
SEE SHEET 4



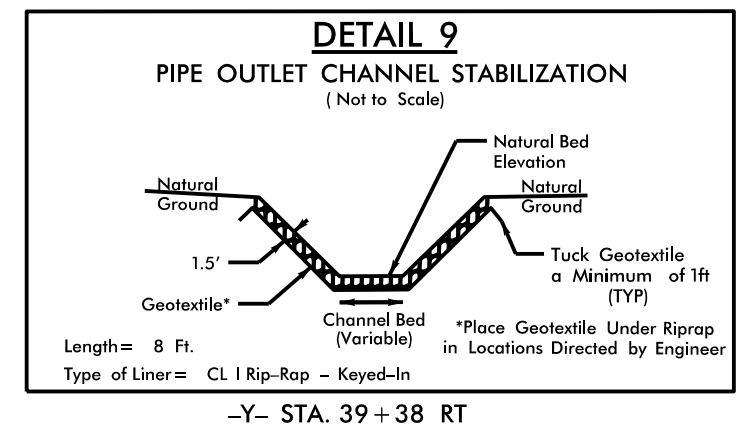
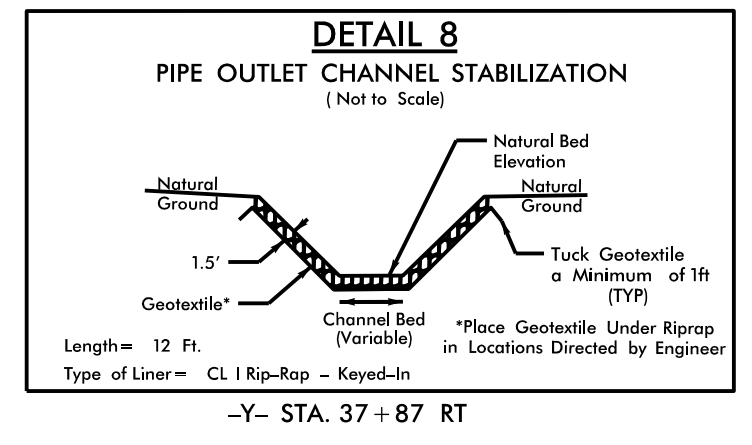
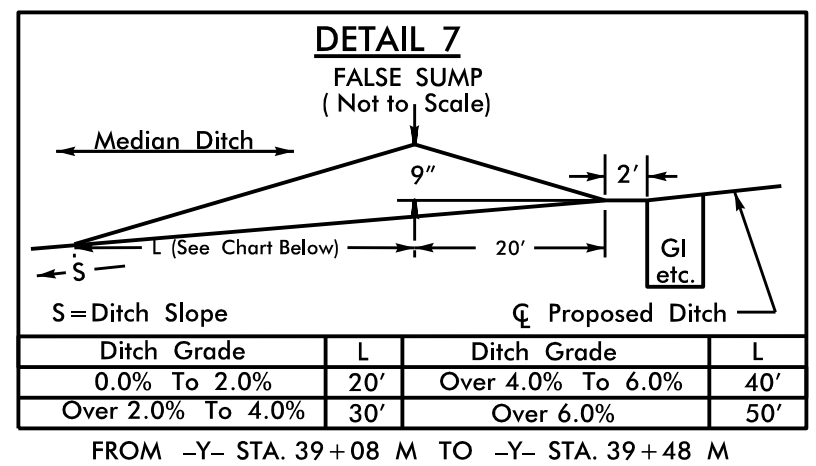
77' x 38' x 3'
1.5 inch Skimmer
with 1.50 inch
Orifice Diameter
11 ft. weir
ID 6.1



5/14/2011
581578-NCDDOT-10-0043-CAD GIS 910 CAD 70 NCDOT TIP Erosion Control Design 230 BR0043 EC PSH10.FG.dgn



FOR -Y-RT- PROFILE SEE SHEET 9
FOR -Y-LT- PROFILE SEE SHEET 10



JOHN N. HESTER, III
DALEY ELISABETH SCOTT, ET ALS
DB 1312 PG 367
LIFE ESTATE OBE 299

CLARK M. HOLT, TRUSTEE
JOHN N. HESTER, III
DALEY ELISABETH SCOTT, ET ALS
DB 1291 PG 41
LIFE ESTATE OBE 299
PB 30 PG 38

DALEY ELISABETH SCOTT, ET ALS
LIFE ESTATE OBE 299
DB 102 PG 150
PB 30 PG 36

MATCHLINE -RPA-
STA. 13+50.00
SEE SHEET 4

MATCHLINE -Y- STA. 34+50.00
SEE SHEET 4

MATCHLINE -RPD-
STA. 18+30.00
SEE SHEET 4

FOR -L- PROFILE SEE SHEET 6
FOR -Y-RT- PROFILE SEE SHEET 9
FOR -Y-LT- PROFILE SEE SHEET 10
FOR -RPD- PROFILE SEE SHEET 11

5/14/2011
581578-NCDD01-CAD GIS 910-CAD 70-NCDD01-TIP Erosion Control Design 230-BR0043-EC-PSH11-FC.dgn