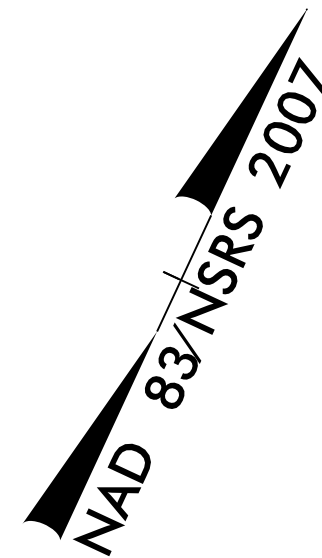


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and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

TIP PROJECT: B-4932



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

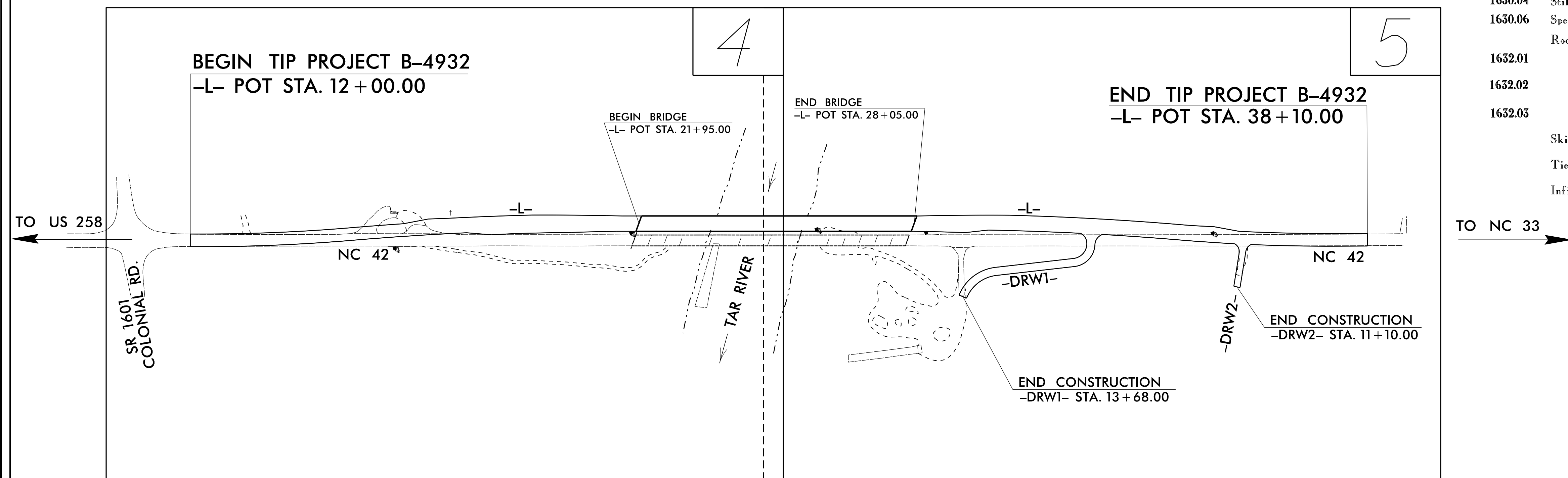
LOCATION: BRIDGE NO. 28 OVER TAR RIVER ON NC 42

TYPE OF WORK: GRADING, PAVING, DRAINAGE, TEMPORARY SIGNALS AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4932	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	~ ~ ~ ~ ~
1622.01	Temporary Berms and Slope Drains	TSD
1630.02	Silt Basin Type B	[Symbol]
1633.01	Temporary Rock Silt Check Type-A	[Symbol]
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	[Symbol]
1633.02	Temporary Rock Silt Check Type-B	[Symbol]
	Wattle / Coir Fiber Wattle	[Symbol]
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	[Symbol]
1634.01	Temporary Rock Sediment Dam Type-A	[Symbol]
1634.02	Temporary Rock Sediment Dam Type-B	[Symbol]
1635.01	Rock Pipe Inlet Sediment Trap Type-A	[Symbol]
1635.02	Rock Pipe Inlet Sediment Trap Type-B	[Symbol]
1630.04	Stilling Basin	[Symbol]
1630.06	Special Stilling Basin	[Symbol]
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	[Symbol]
	Tiered Skimmer Basin	[Symbol]
	Infiltration Basin	[Symbol]

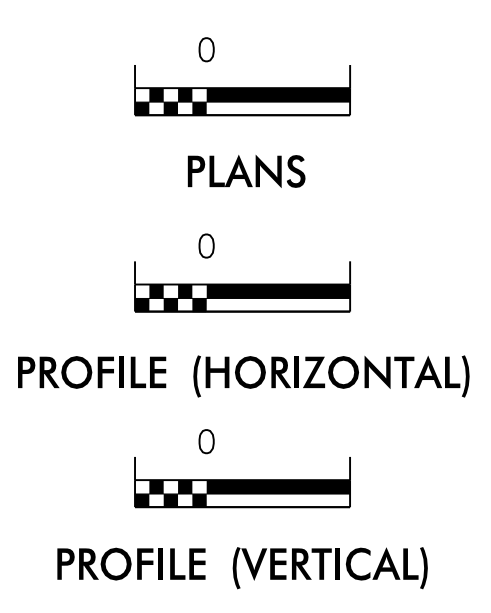


THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

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

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
 2018 STANDARD SPECIFICATIONS
 Designed by:
Noelle Ring 3456
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

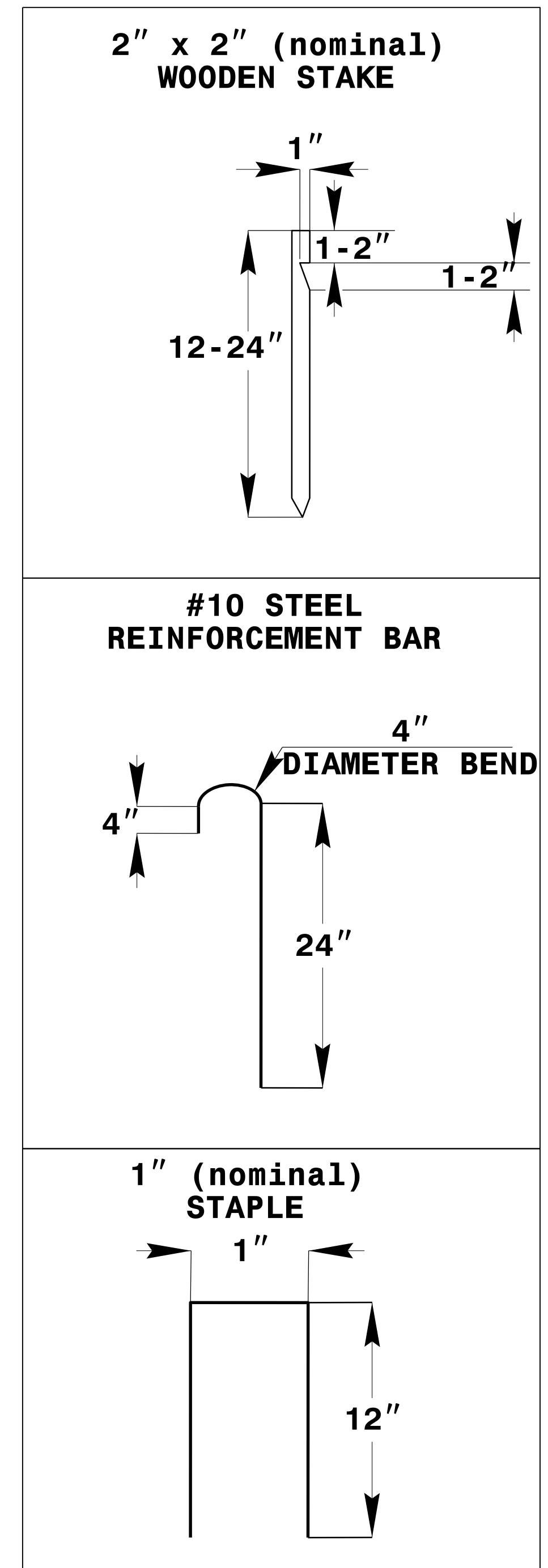
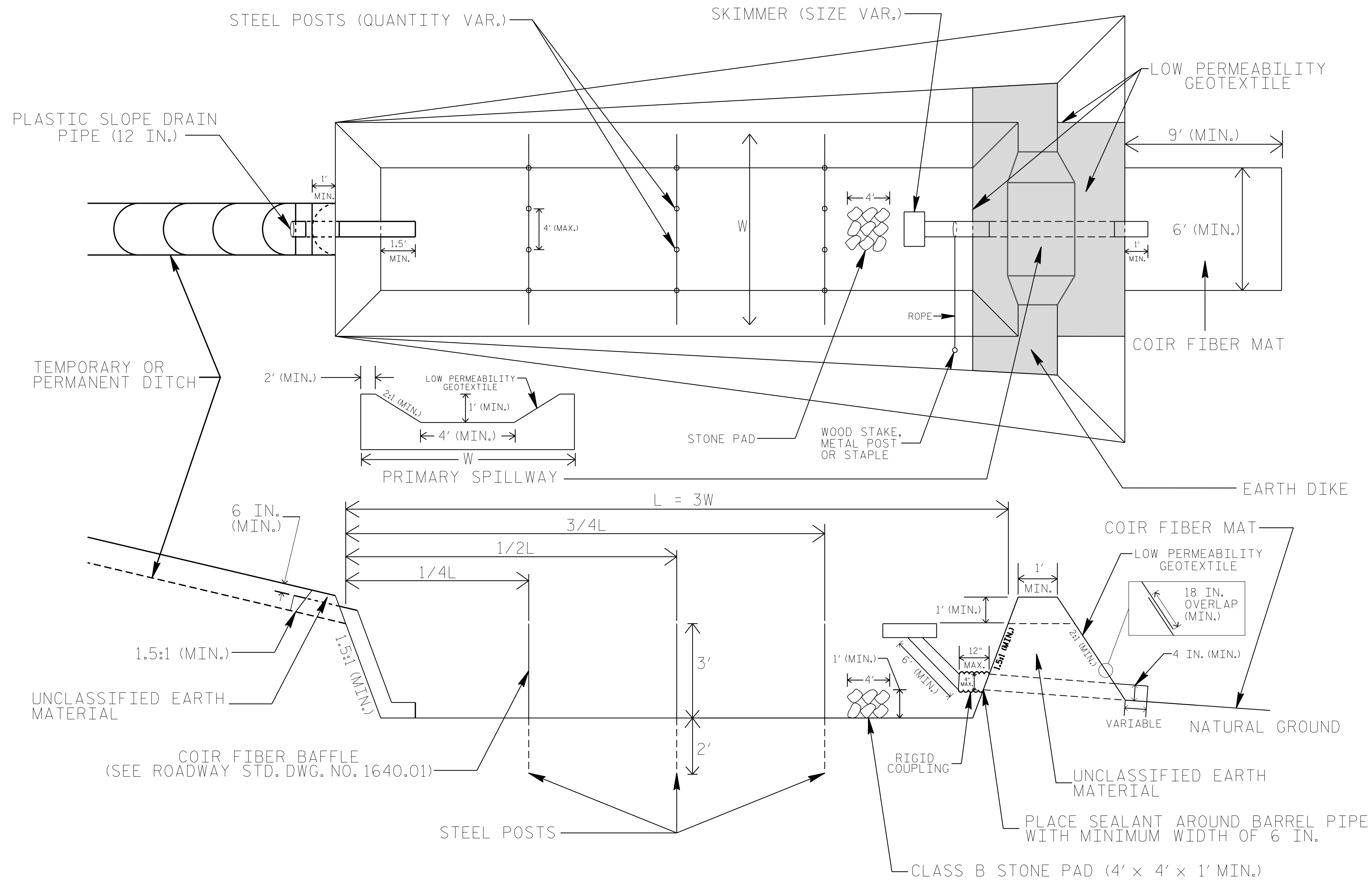
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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 J
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 J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
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 J
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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PROJECT REFERENCE NO. B-4932	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



COIR FIBER MAT ANCHOR OPTIONS

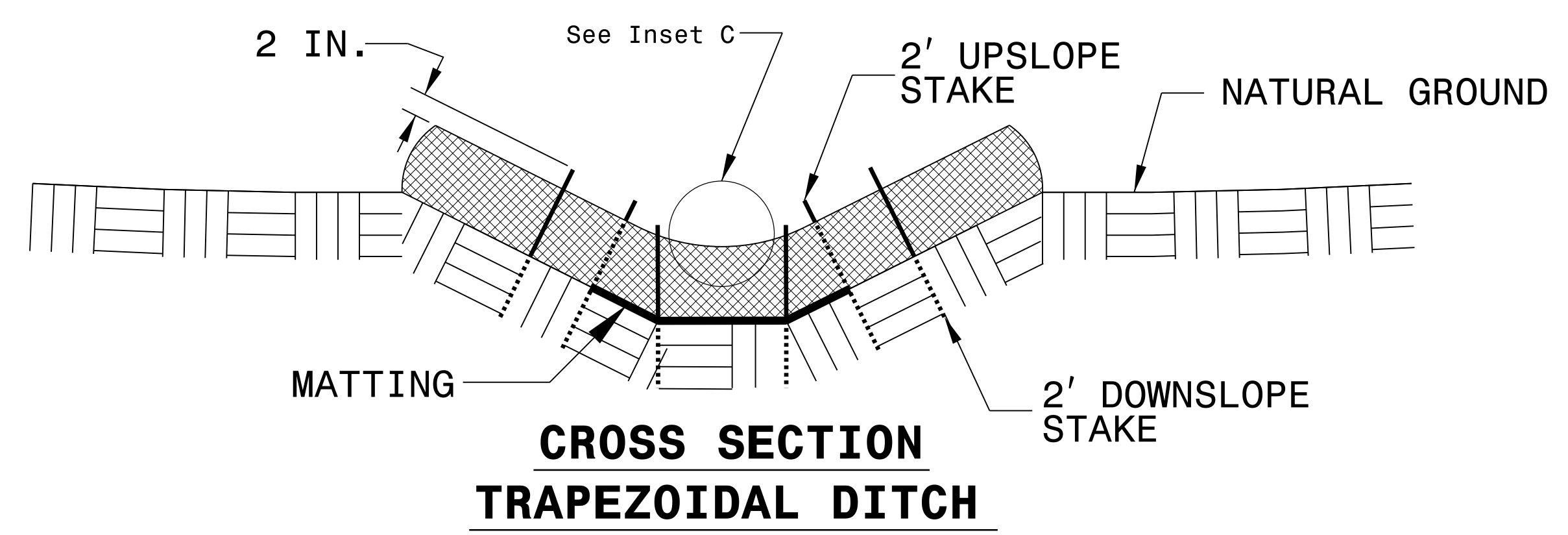
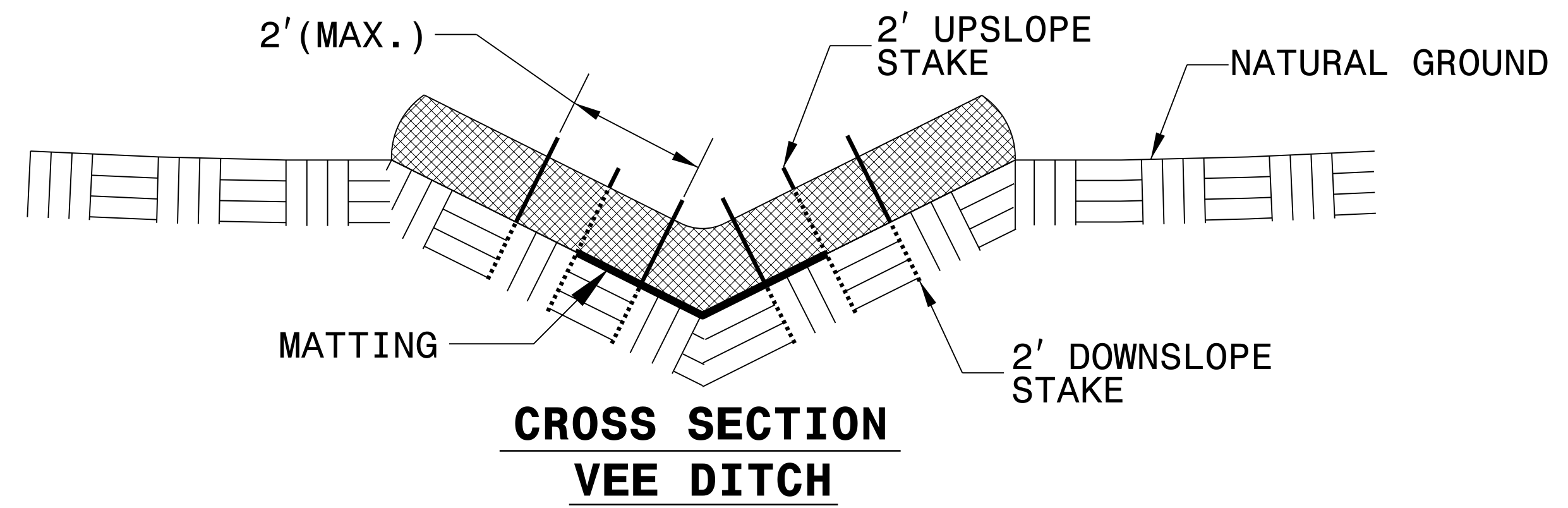
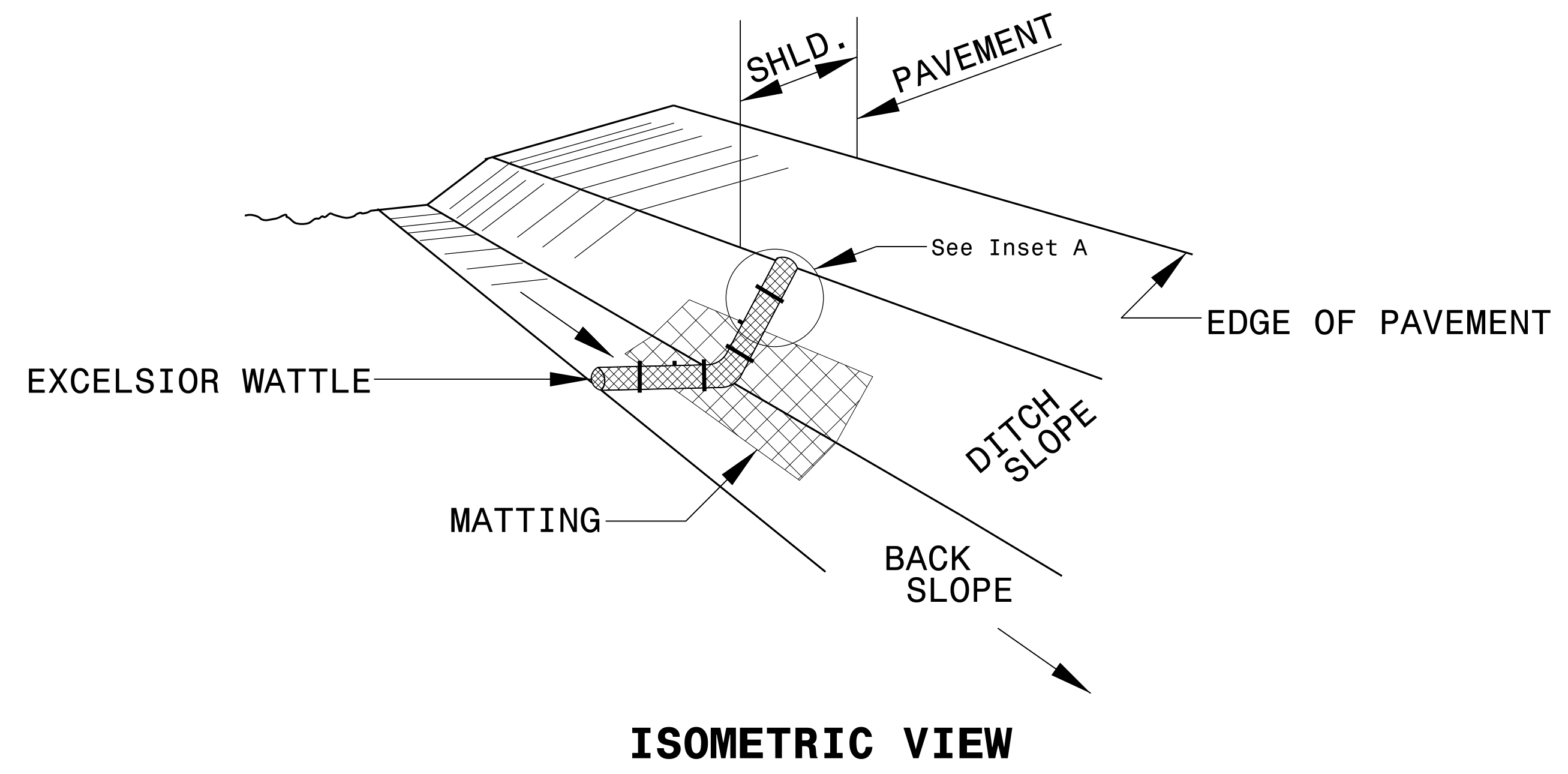
NOTES

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. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

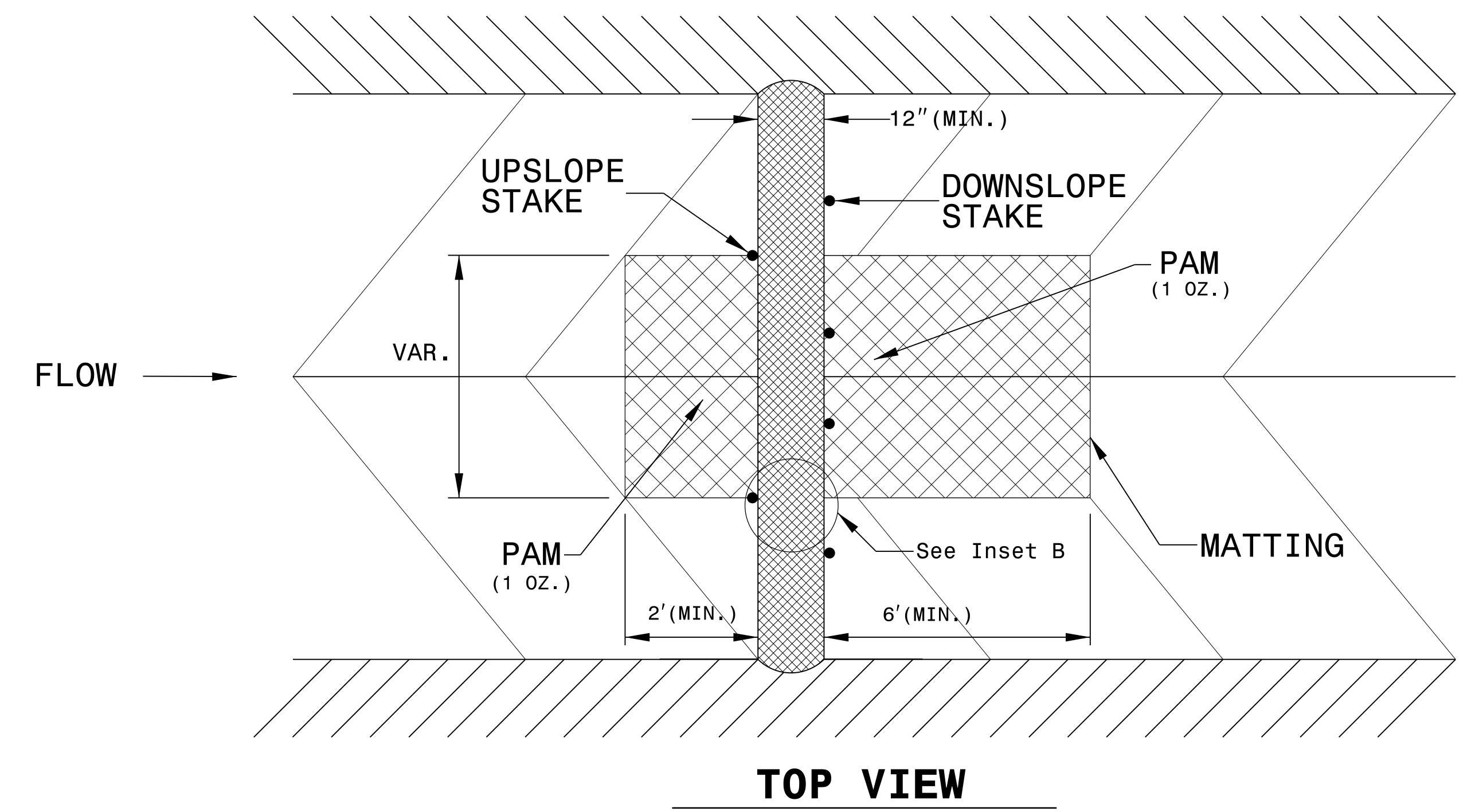
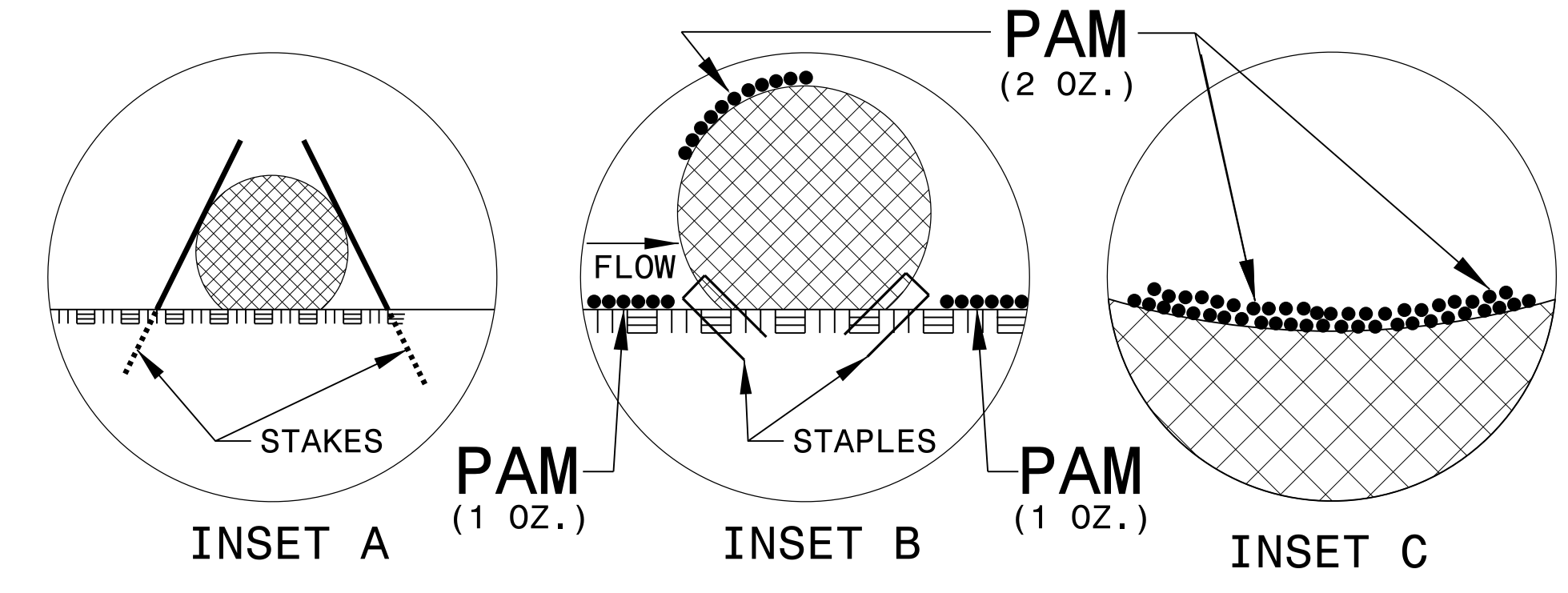
NOT TO SCALE

PROJECT REFERENCE NO. B-4932	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

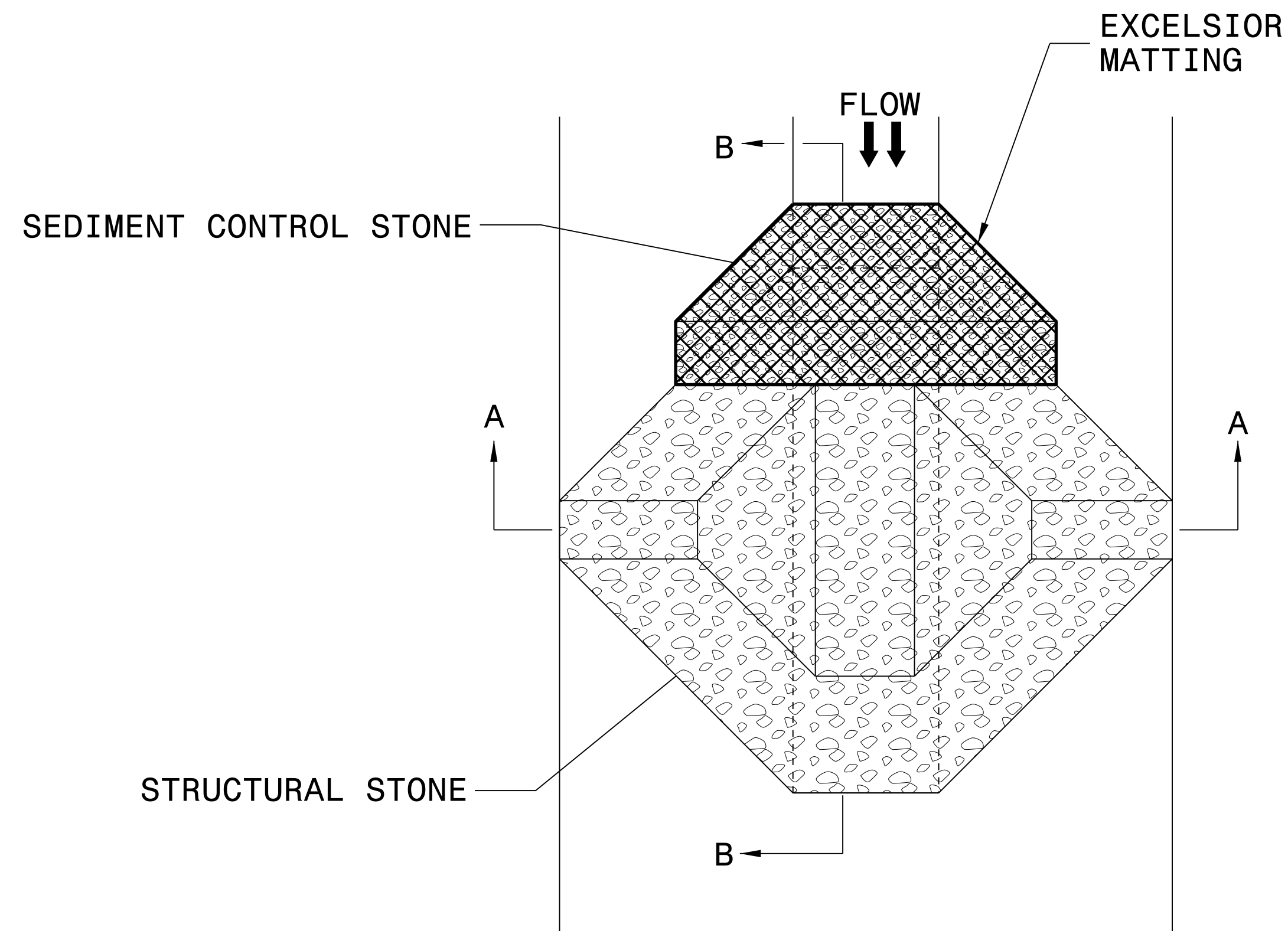


- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE 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.



PROJECT REFERENCE NO. B-4932	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

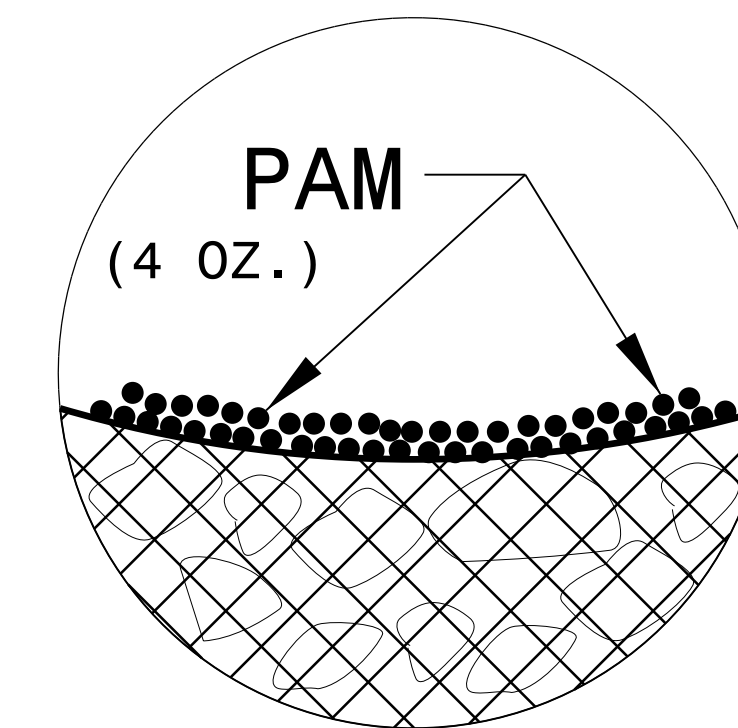
NOTES:

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

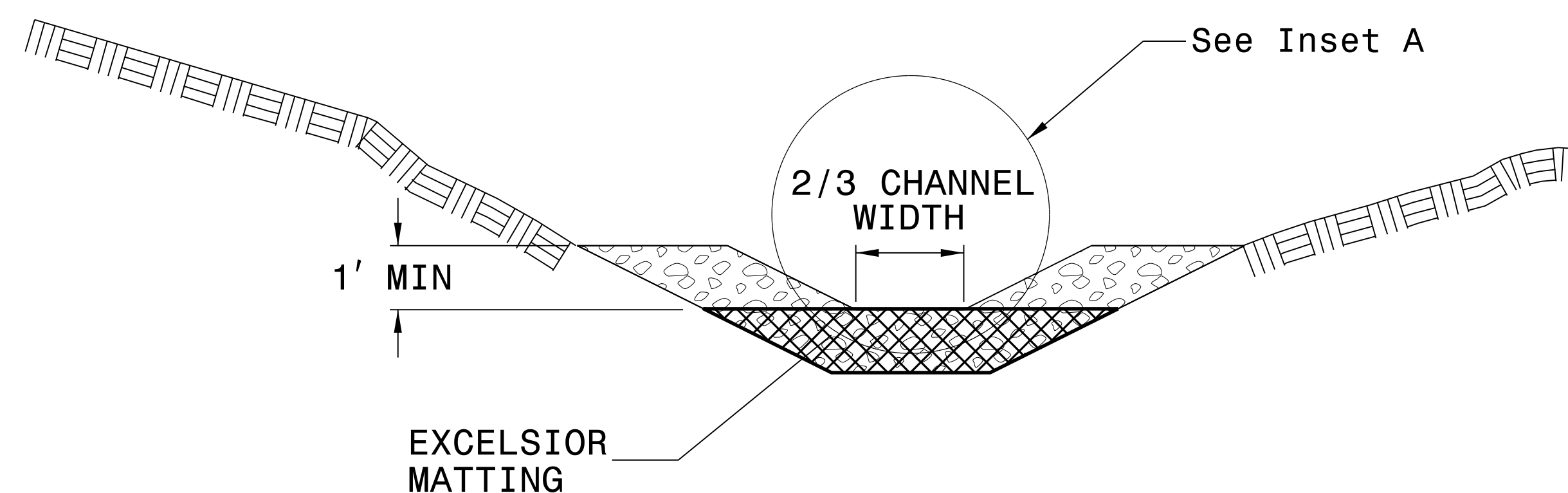
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

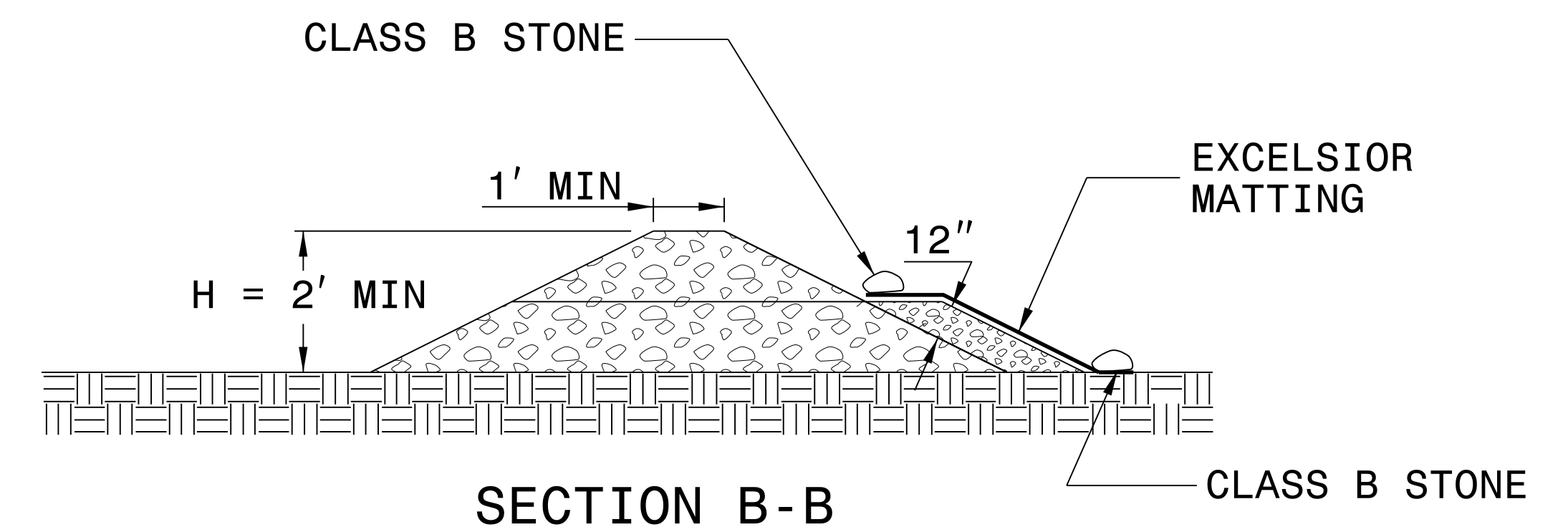
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

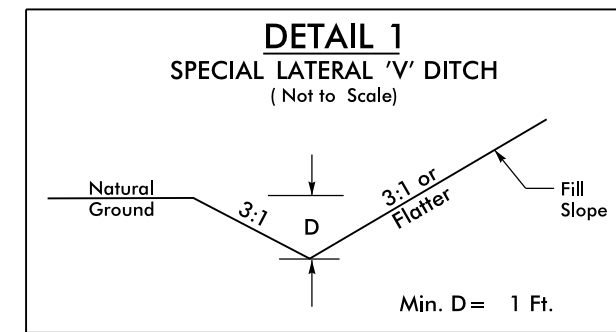
PROJECT REFERENCE NO. <i>B-4932</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

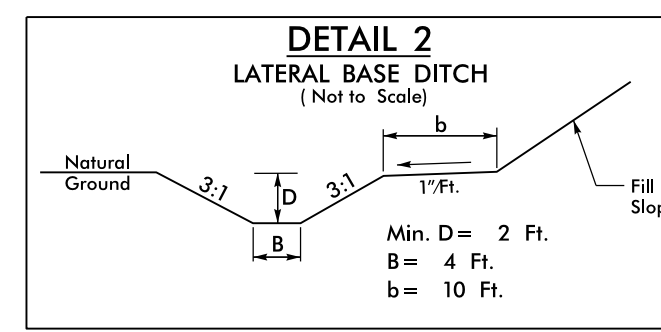
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

-L- CURVE DATA

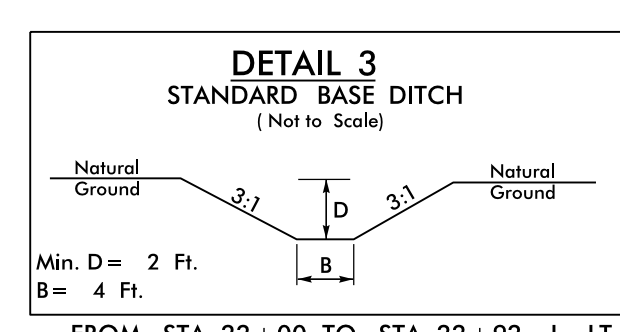
PI Sta 13+93.35	PI Sta 18+40.85
$\Delta = 4^{\circ} 52' 08.6" (LT)$	$\Delta = 4^{\circ} 52' 08.6" (RT)$
$D = 1^{\circ} 28' 22.4"$	$D = 0^{\circ} 51' 46.4"$
$L = 330.58'$	$L = 564.28'$
$T = 165.39'$	$T = 282.31'$
$R = 3,890.00'$	$R = 6,640.00'$
$SE = .04$	$SE = .025$
$RO = 107'$	$RO = 67'$



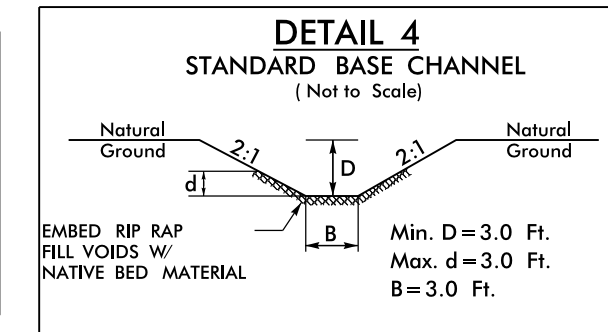
FROM STA. 12+00 TO STA. 14+20 -L- LT
FROM STA. 14+40 TO STA. 15+50 -L- RT



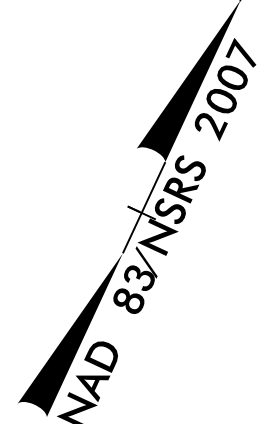
FROM STA. 20+50 TO STA. 22+00 -L- LT



FROM STA. 22+00 TO STA. 22+92 -L- LT



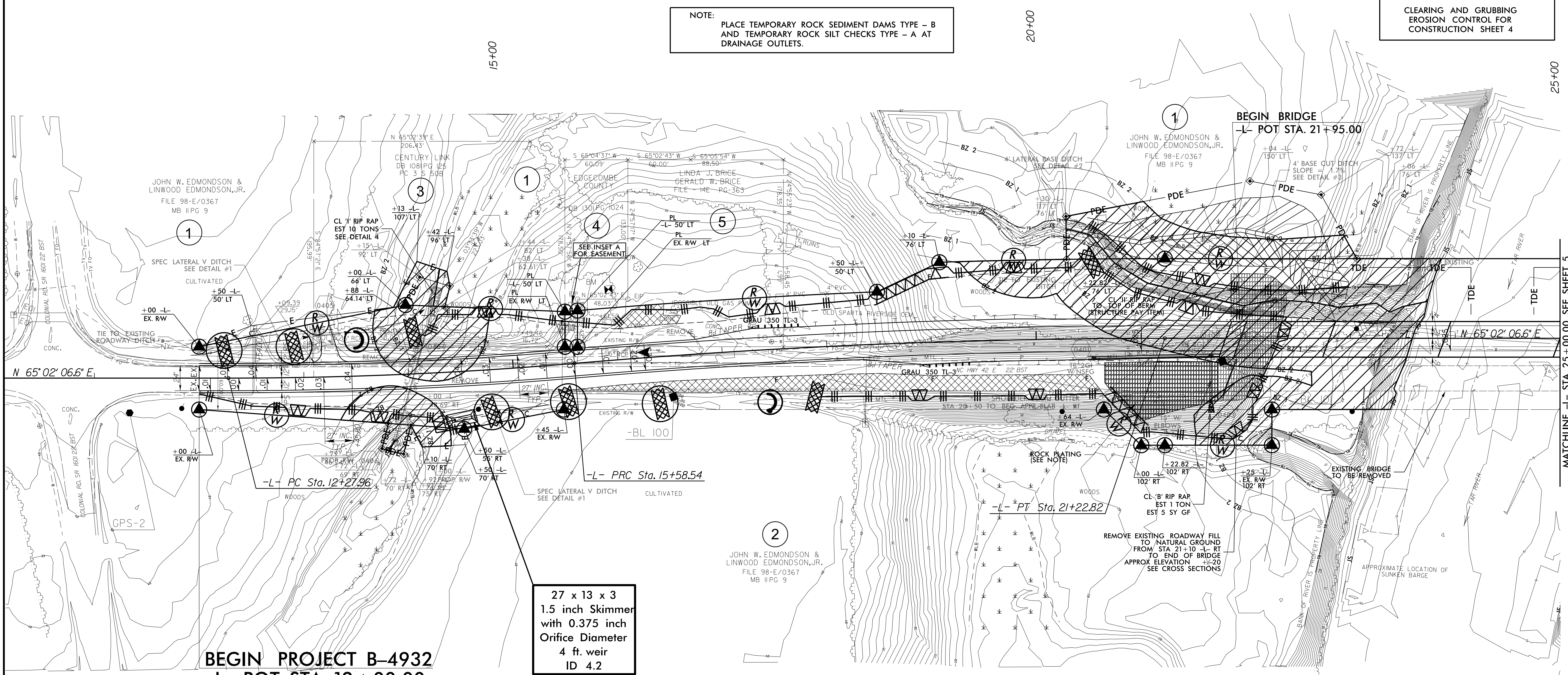
Type of Liner = Class 'I' Rip-Rap
STA 14+26 -L- LT



PROJECT REFERENCE NO. B-4932	SHEET NO. EC-4/CONST. 4
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 4



BEGIN PROJECT B-4932
-L- POT STA. 12+00.00

27 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 4.2

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

NOTES:
USE REINFORCED SOIL SLOPES (RSS) 1.5:1 (H:V) SLOPES AT -L- STA. 18+25 TO 21+86 LT
"USE ROCK PLATING DETAIL NO. 2 AT -L- STA. 20+65+/- TO -L- STA. 21+73+/- RIGHT. EXTEND ROCK PLATING LIMITS TO 2.75:1 (H:V) SLOPES. SEE STANDARD ROCK PLATING DETAIL."

MATCHLINE -L- STA. 25+00.00 SEE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
B-4932	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L- CURVE DATA

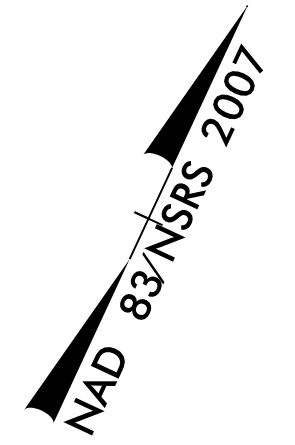
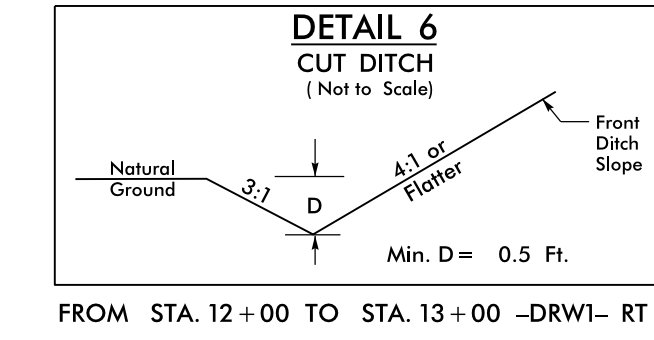
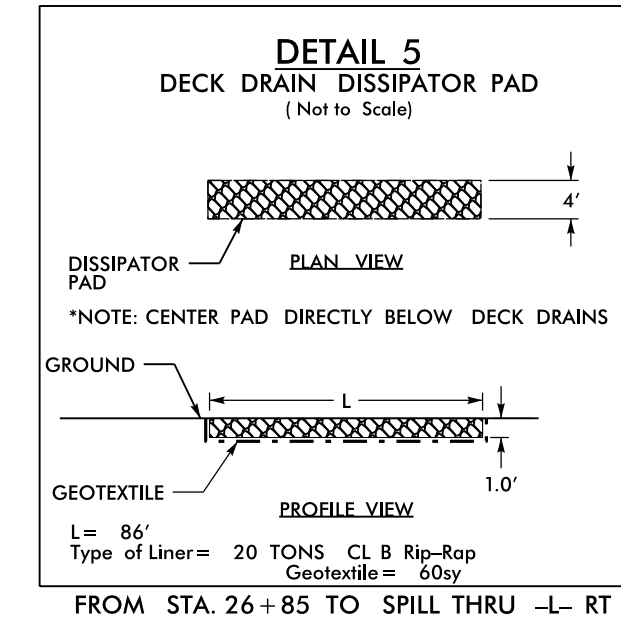
PI Sta 31+17.51	PI Sta 35+67.79
$\Delta = 4^{\circ} 48' 24.6''$ (RT)	$\Delta = 5^{\circ} 03' 38.8''$ (LT)
D = 0' 51' 46.4"	D = 1' 28' 22.4"
L = 557.06'	L = 343.59'
T = 278.69'	T = 171.91'
R = 6,640.00'	R = 3,890.00'
SE = .025	SE = .04
RO = 67'	RO = 107'

-DRWI- CURVE DATA

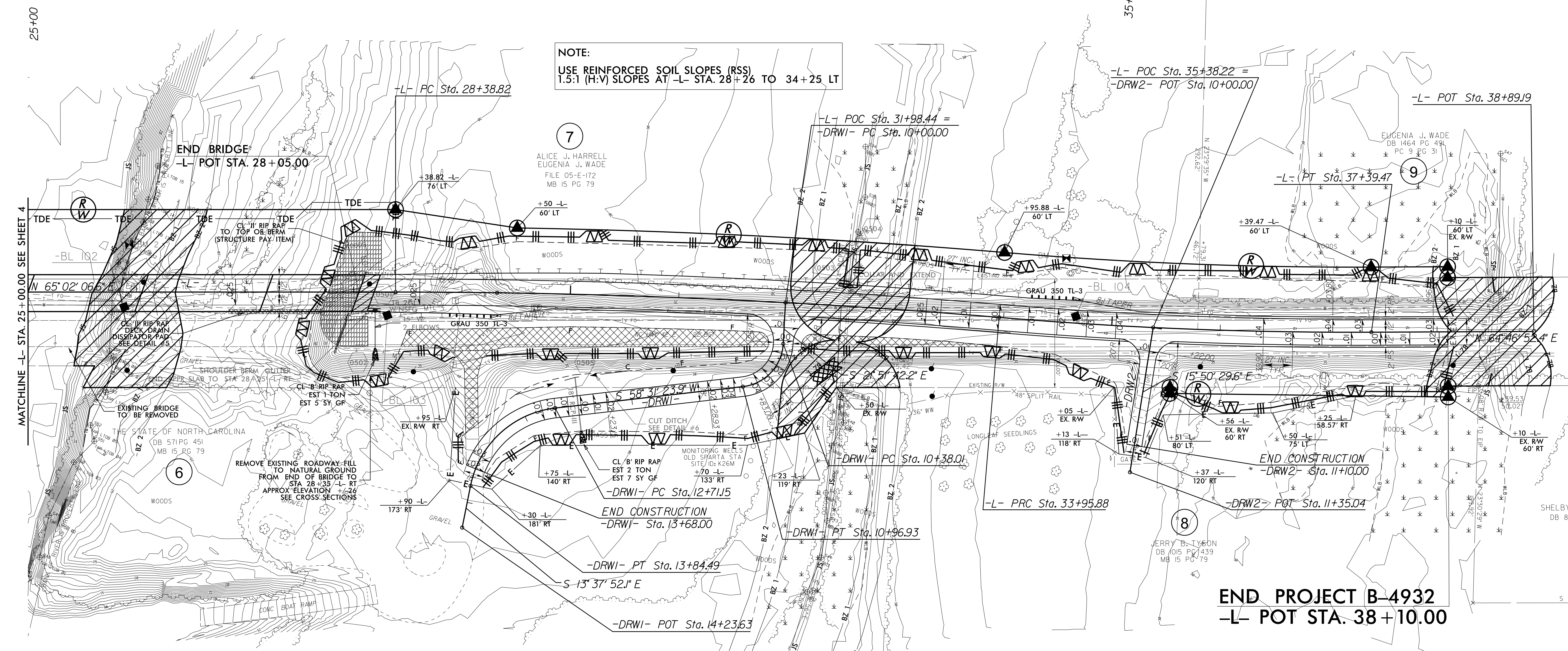
PI Sta 10+73.49	PI Sta 13+36.72
$\Delta = 80^{\circ} 23' 06.1''$ (RT)	$\Delta = 72^{\circ} 09' 16.0''$ (LT)
D = 136' 25' 06.7"	D = 63' 39' 43.1"
L = 58.93'	L = 113.34'
T = 35.48'	T = 65.57'
R = 42.00'	R = 90.00'
SE = .04	SE = .03
RO = 48'	RO = 36'

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

DECK DRAINS REQUIRED
6" DECK DRAINS ON 12" CENTERS FROM STA. 26+90 TO STA. 27+02 RT. FROM STA. 27+20 TO STA. 27+92 RT.



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5



NOTE:
USE REINFORCED SOIL SLOPES (RSS) 1.5:1 (H:V) SLOPES AT -L- STA. 28+26 TO 34+25 LT

NOTE:
UTILIZE SPECIAL STILLING BASIN(S) WHERE APPLICABLE



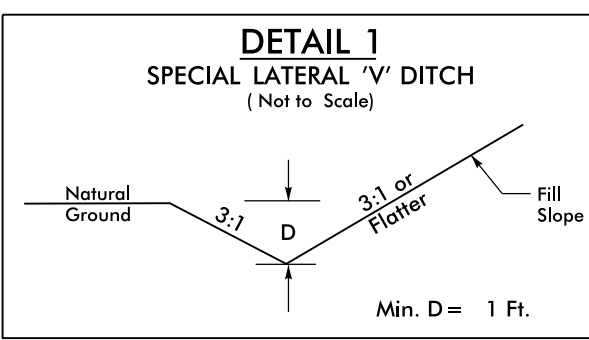
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

8/17/99
16 NOV 2010 09:35
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C:\Users\jerry\Documents\B4932_EC_psh05.dgn

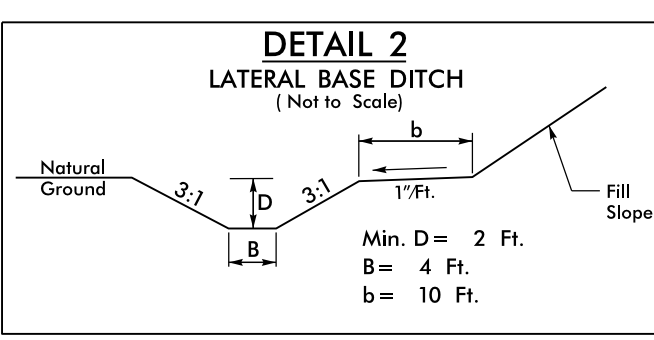
PROJECT REFERENCE NO.	SHEET NO.
B-4932	EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L- CURVE DATA

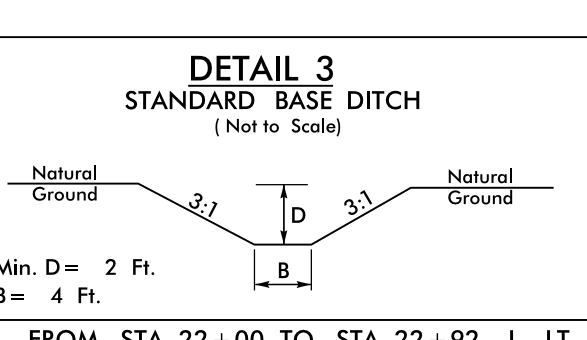
PI Sta 13+93.35	PI Sta 18+40.85
$\Delta = 4^{\circ}52'08.6"$ (LT)	$\Delta = 4^{\circ}52'08.6"$ (RT)
D = 1'28"22.4"	D = 0'51"46.4"
L = 330.58'	L = 564.28'
T = 165.39'	T = 282.31'
R = 3,890.00'	R = 6,640.00'
SE = .04	SE = .025
RO = 107'	RO = 67'



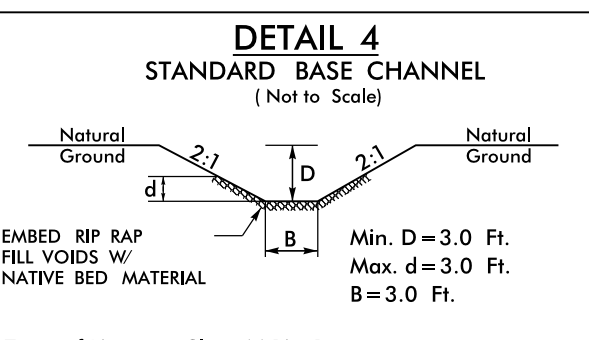
FROM STA. 12+00 TO STA. 14+20 -L- LT
FROM STA. 14+40 TO STA. 15+50 -L- RT



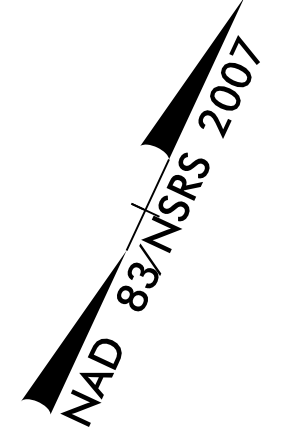
FROM STA. 20+50 TO STA. 22+00 -L- LT



FROM STA. 22+00 TO STA. 22+92 -L- LT



Type of Liner = Class 'I' Rip-Rap
STA. 14+26 -L- LT



28 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 4.1

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 18+50 to Sta. 21+50

27 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 4.2

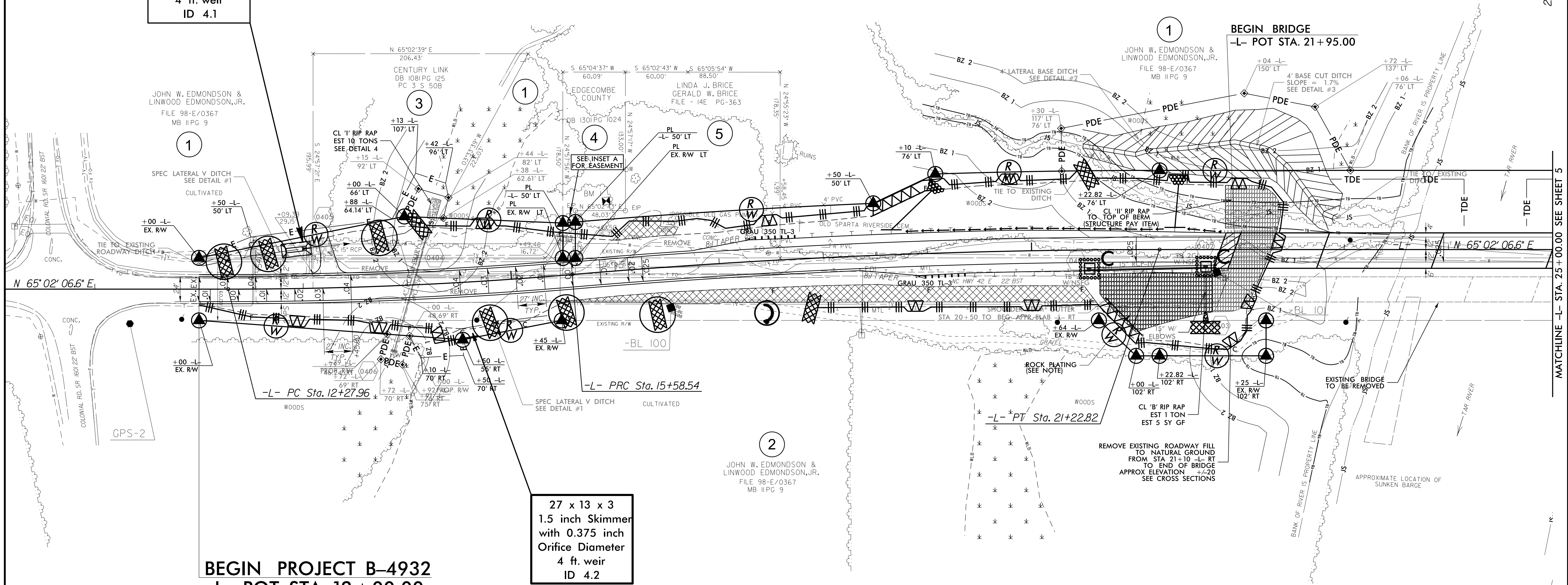
BEGIN PROJECT B-4932
-L- POT STA. 12+00.00

Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.

NOTES:
USE REINFORCED SOIL SLOPES (RSS)
1.5:1 (H:V) SLOPES AT -L- STA. 18+25 TO 21+86 LT
"USE ROCK PLATING DETAIL NO. 2
AT -L- STA. 20+65 +/- TO -L- STA. 21+73 +/- RIGHT.
EXTEND ROCK PLATING LIMITS TO 2.75:1 (H:V) SLOPES.
SEE STANDARD ROCK PLATING DETAIL."

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING
BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

8/17/99
15-NOV-2017 09:31
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AT:RENV-269782



25+00
MATCHLINE -L- STA. 25+00.00 SEE SHEET 5

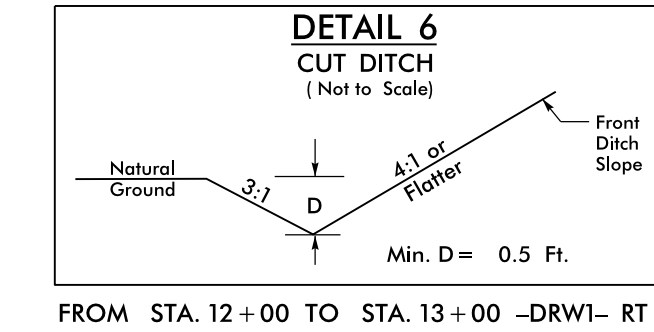
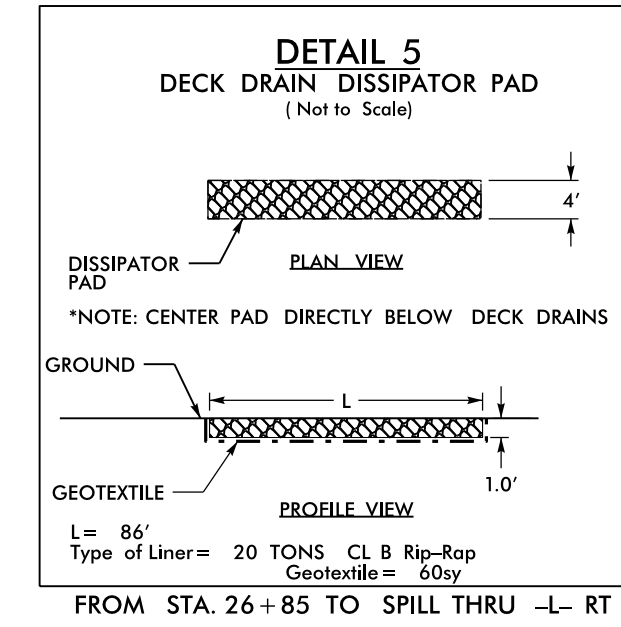
PROJECT REFERENCE NO.	SHEET NO.
B-4932	EC-7/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L- CURVE DATA

PI Sta 31+17.51	PI Sta 35+67.79
$\Delta = 4^{\circ} 48' 24.6''$ (RT)	$\Delta = 5^{\circ} 03' 38.8''$ (LT)
D = 0' 51' 46.4"	D = 1' 28' 22.4"
L = 557.06'	L = 343.59'
T = 278.69'	T = 171.91'
R = 6,640.00'	R = 3,890.00'
SE = .025	SE = .04
RO = 67'	RO = 107'

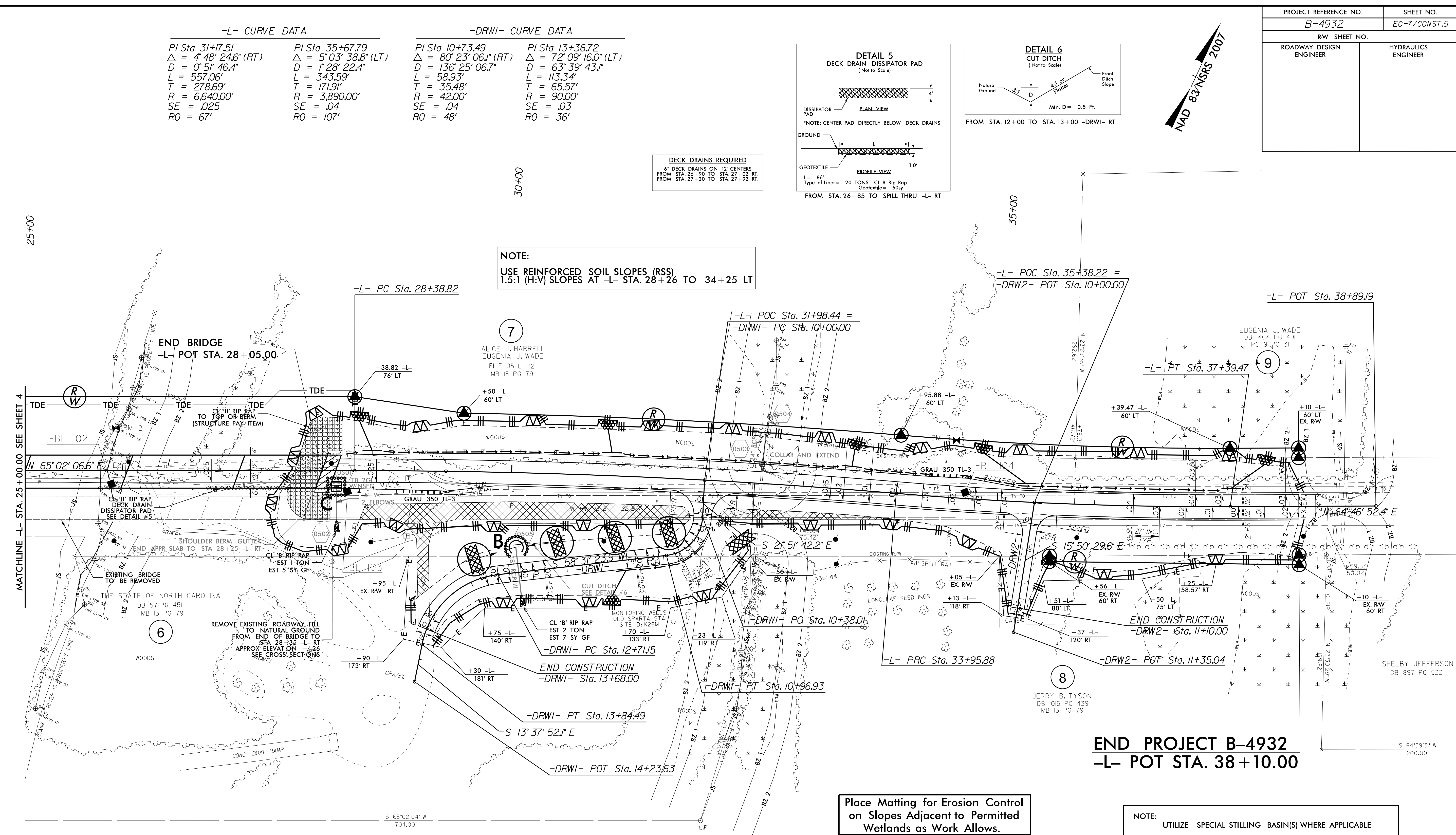
-DRWI- CURVE DATA

PI Sta 10+73.49	PI Sta 13+36.72
$\Delta = 80^{\circ} 23' 06.1''$ (RT)	$\Delta = 72^{\circ} 09' 16.0''$ (LT)
D = 136' 25' 06.7"	D = 63' 39' 43.1"
L = 58.93'	L = 113.34'
T = 35.48'	T = 65.57'
R = 42.00'	R = 90.00'
SE = .04	SE = .03
RO = 48'	RO = 36'



DECK DRAINS REQUIRED
 6" DECK DRAINS ON 12" CENTERS
 FROM STA. 26+90 TO STA. 27+02 RT.
 FROM STA. 27+20 TO STA. 27+92 RT.

NOTE:
 USE REINFORCED SOIL SLOPES (RSS)
 1.5:1 (H:V) SLOPES AT -L- STA. 28+26 TO 34+25 LT



Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

NOTE:
 UTILIZE SPECIAL STILLING BASIN(S) WHERE APPLICABLE

Place Matting for Erosion Control on Slope as Work Allows. Sta. 27+75 to Sta. 38+00

8/17/99
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