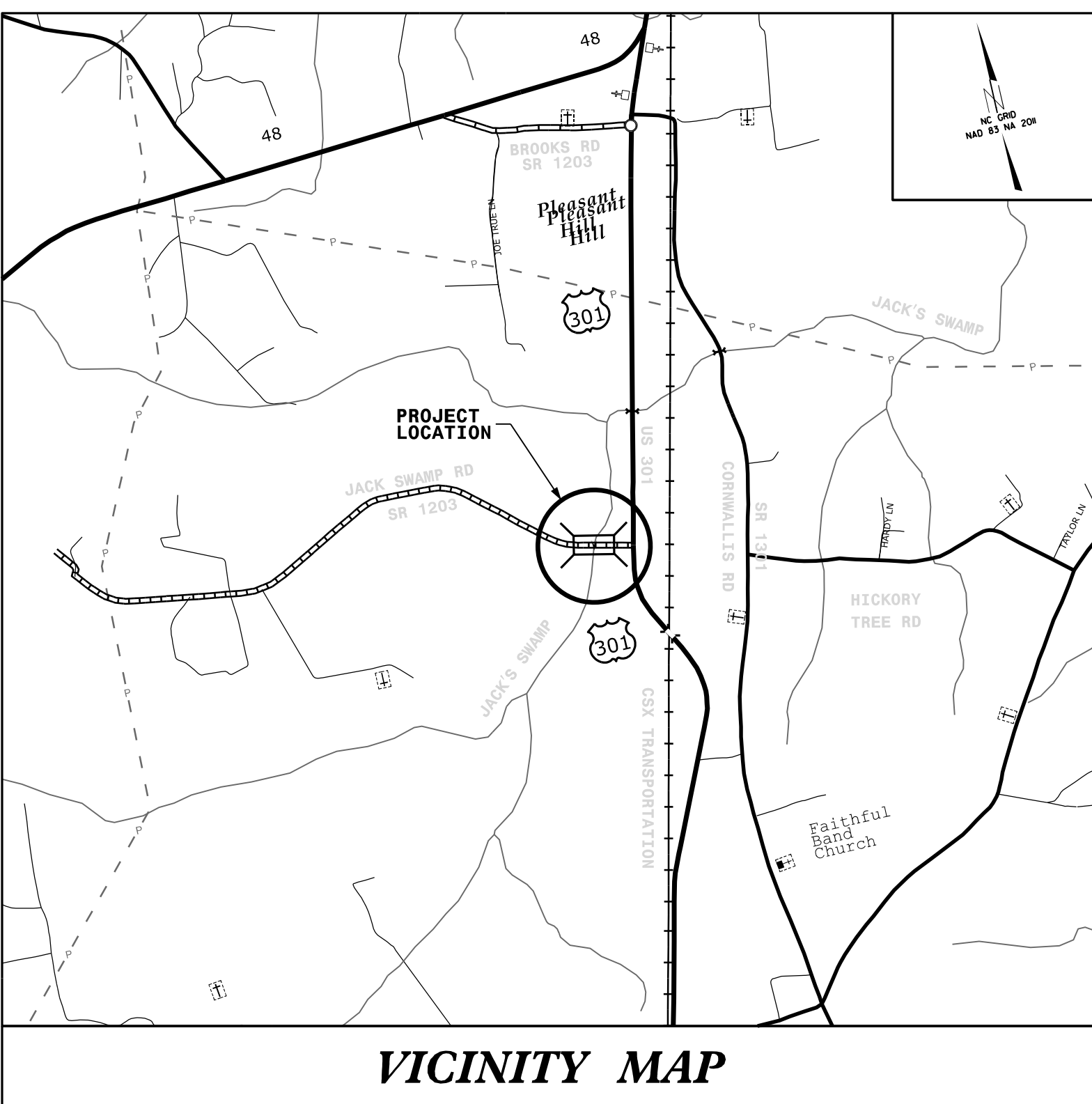


09.08/99

See Sheet 1A For Index of Sheets

TIP PROJECT: BR-0118



VICINITY MAP

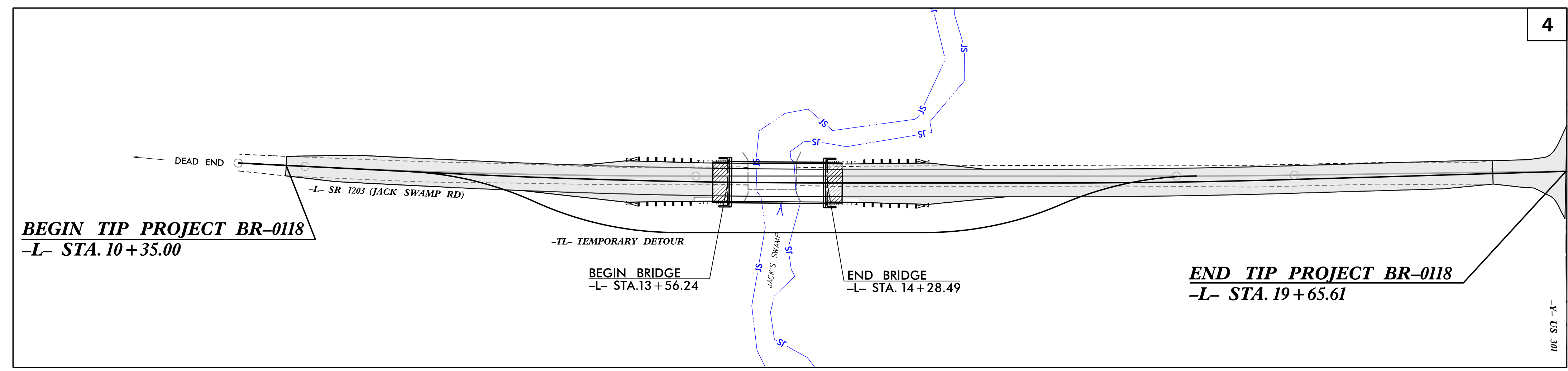
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 NORTHAMPTON COUNTY
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

**LOCATION: BRIDGE 650093 ON SR 1203 (JACK SWAMP RD)
 OVER JACK'S SWAMP**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

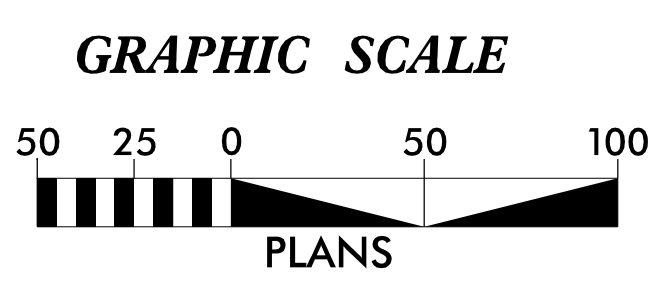
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0118	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48827.1.1	N/A	PE	
48827.2.1	N/A	RW, UTILITIES	
48827.3.1	2020001	CONSTRUCTION	

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	7SD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WCWF
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WCWF-PAM
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	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
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.**

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II
 THIS PROJECT IS NOT LOCATED WITHIN MUNICIPAL BOUNDARIES.
 THIS IS NOT A CONTROL OF ACCESS PROJECT.



**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:



NC FIRM LICENSE No: C-1506
 301 Fayetteville St.,
 Suite 1500
 Raleigh, NC 27601
 (919) 882-7839

Designed by:

JOHN MCNULTY
 NAME

4263
 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.

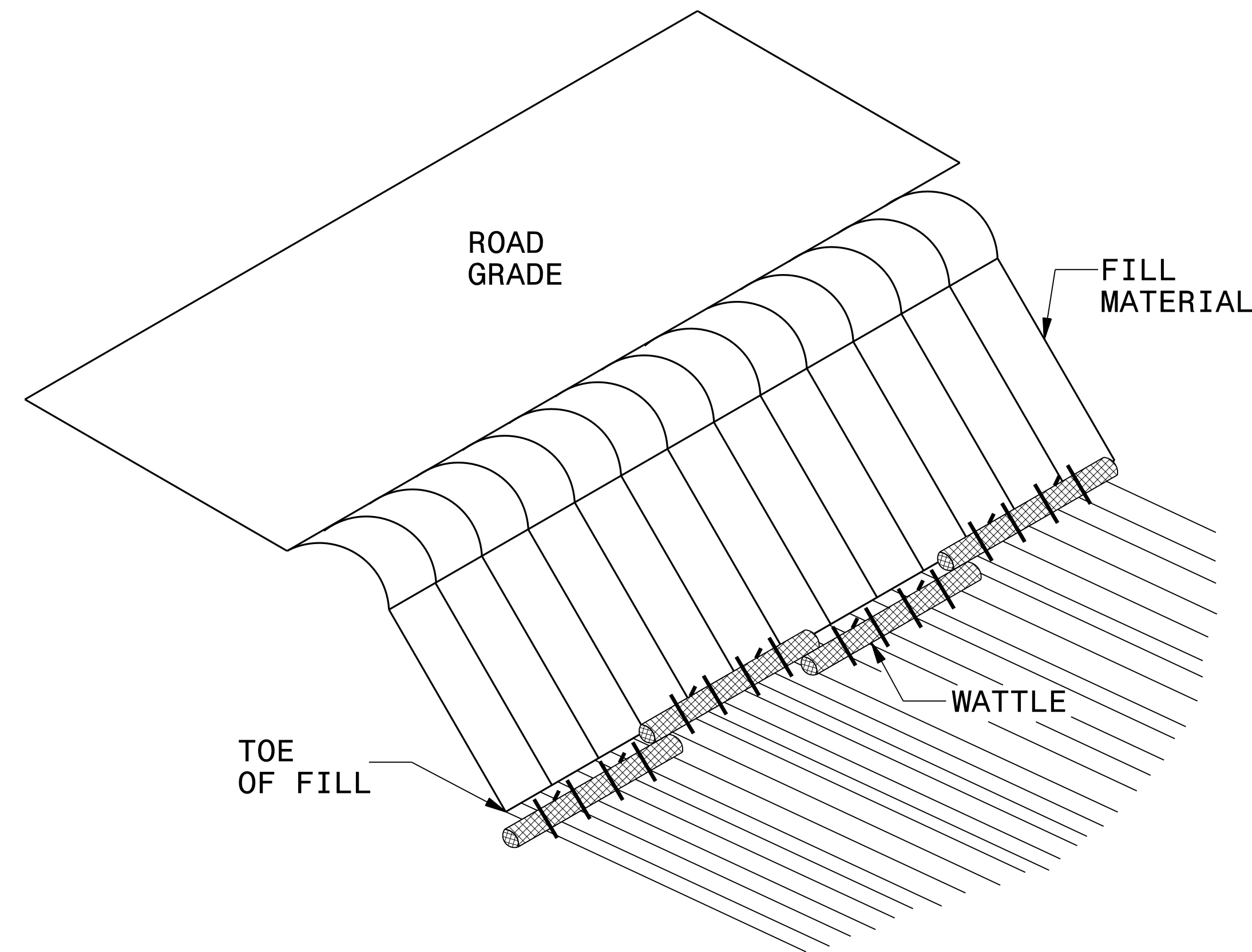
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type 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	

19-FEB-2020 14:24 G:\4201720\XX\SMU-Build Grant\BR-0118-DL\Northampton_93\Hydraulics\CADD\EROSION_CONTROL\BR-0118_EC.tsh.dgn nking AT KCA0173

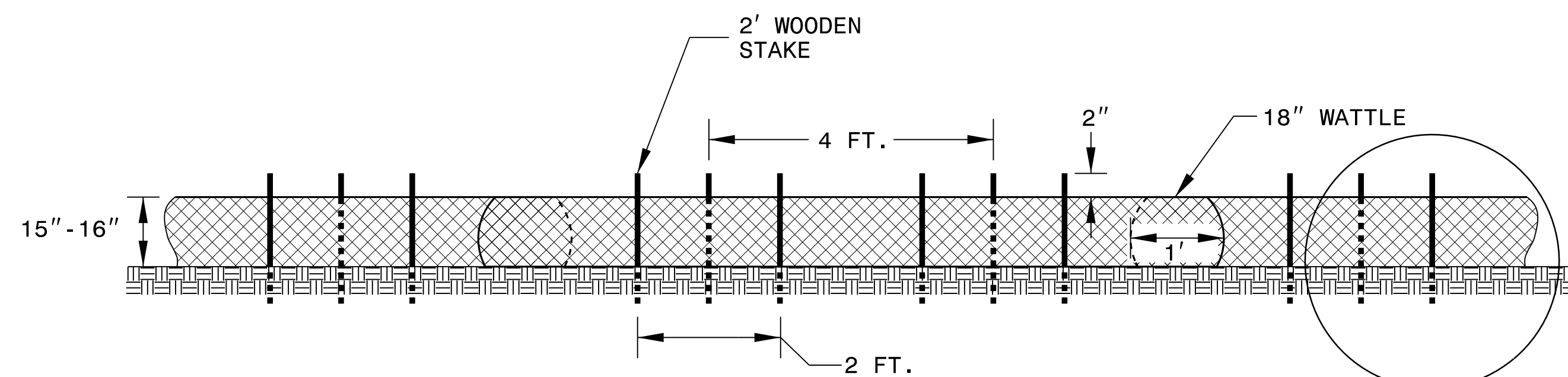
7/2/99

PROJECT REFERENCE NO. <i>BR-0118</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE BARRIER DETAIL



ISOMETRIC VIEW



FRONT VIEW

NOTES:

USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLES ON TOE OF SLOPE.

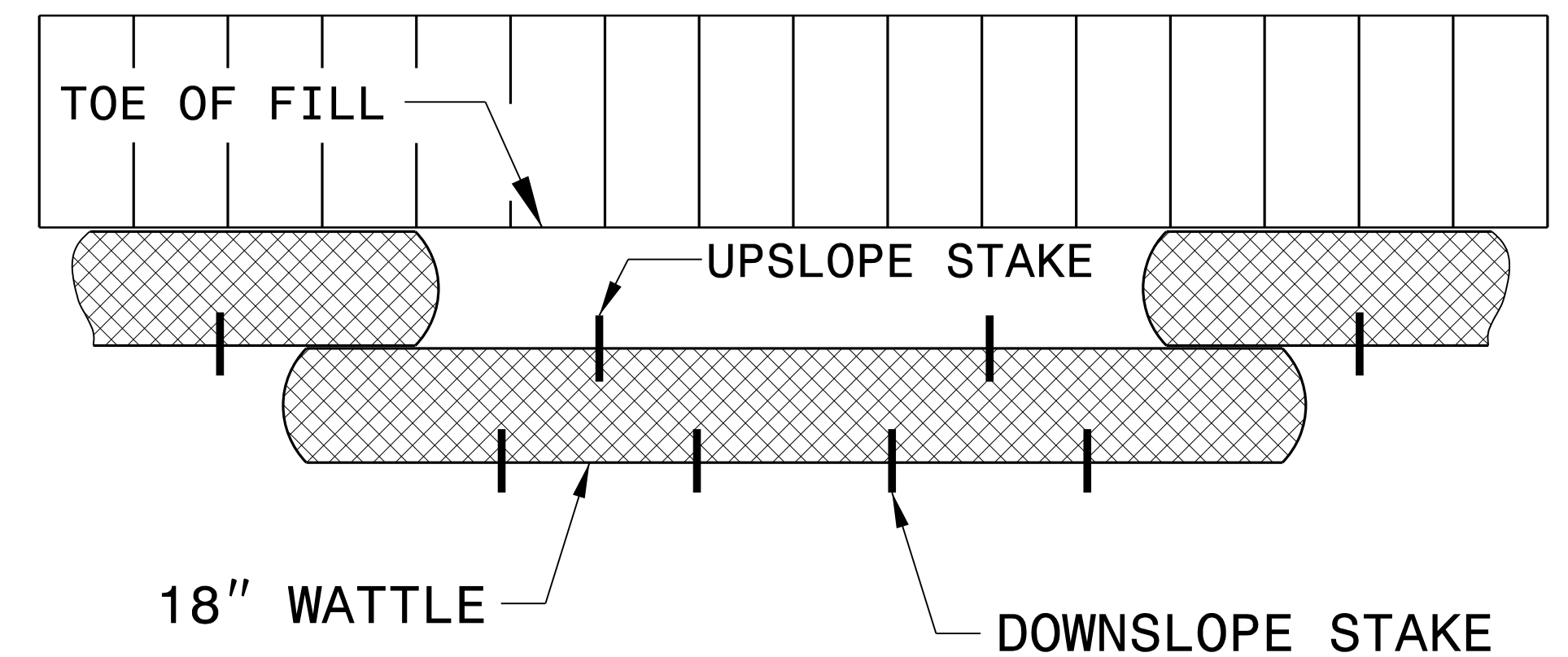
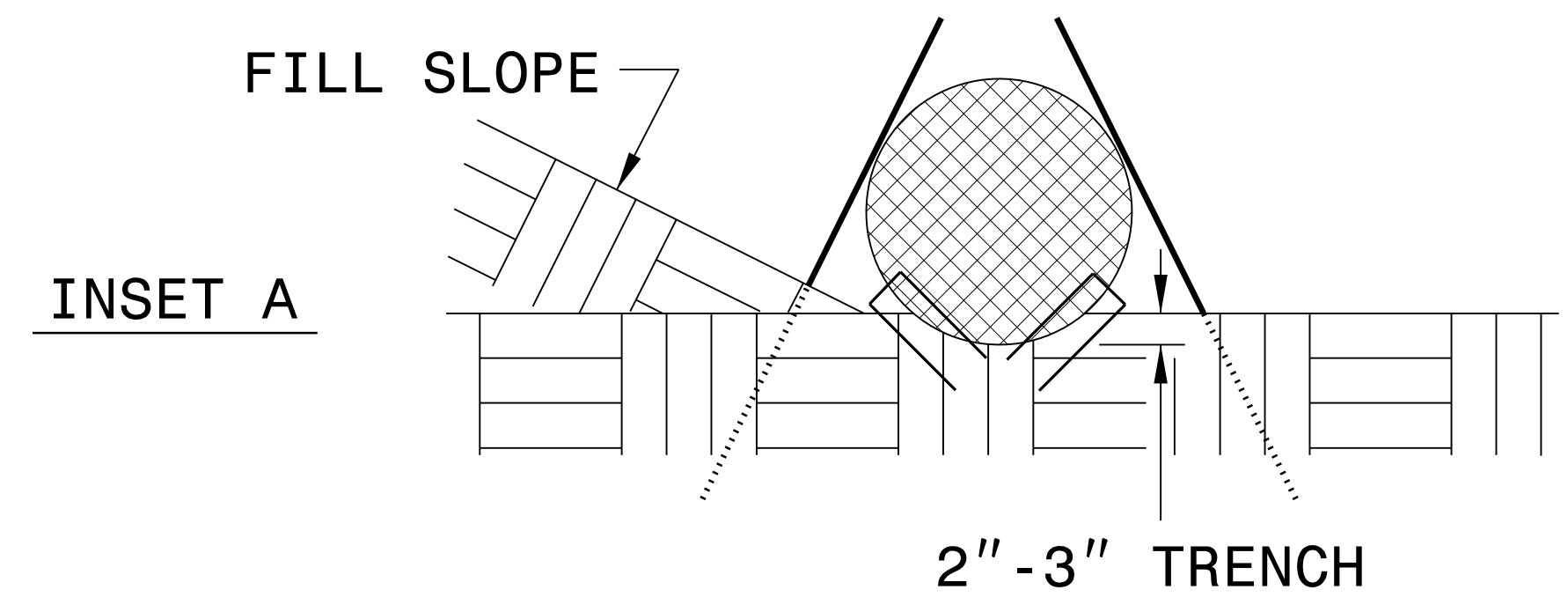
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

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.

FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.

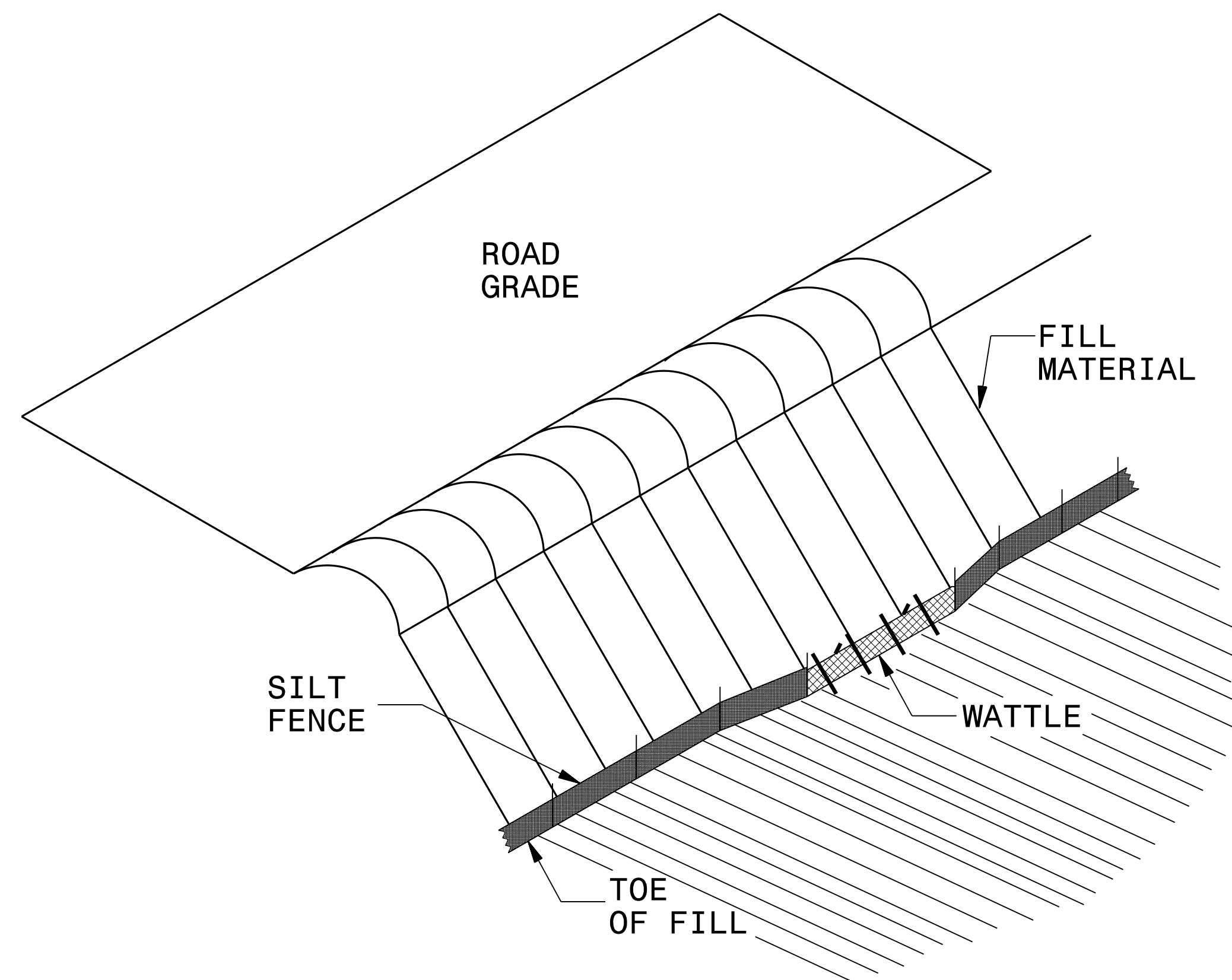


TOP VIEW

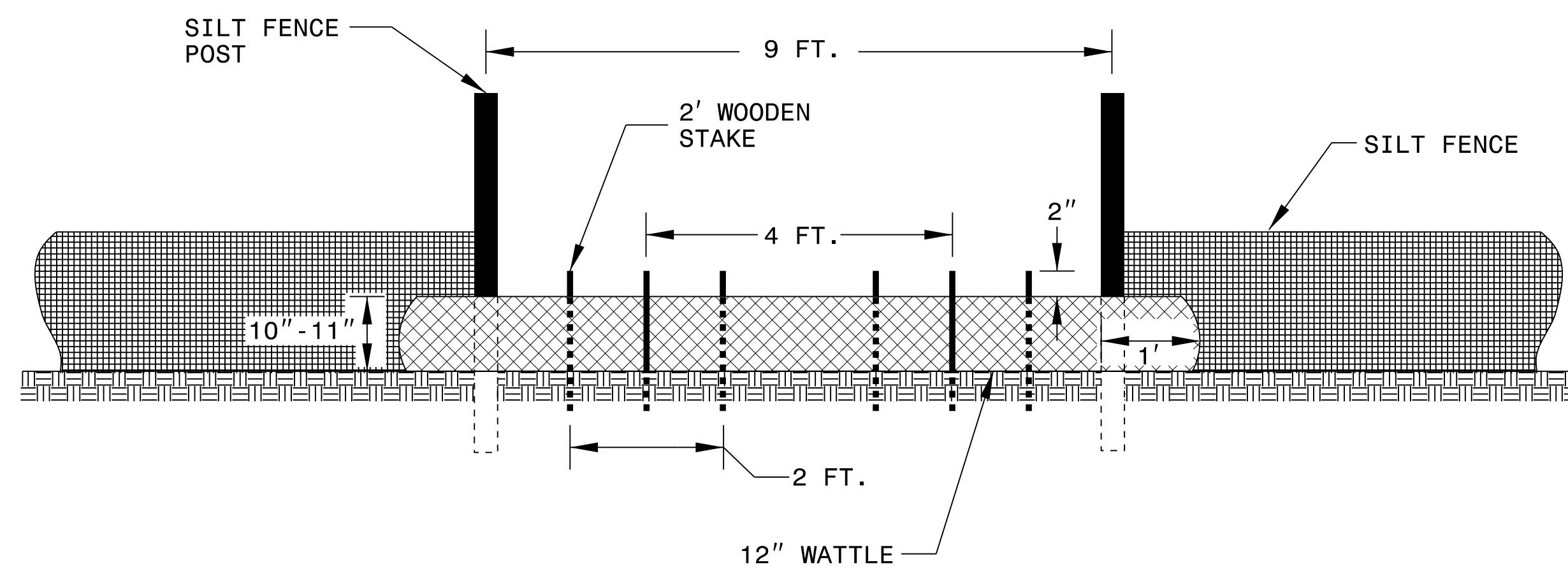
7/2/99

PROJECT REFERENCE NO. <i>BR-0118</i>	SHEET NO. <i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

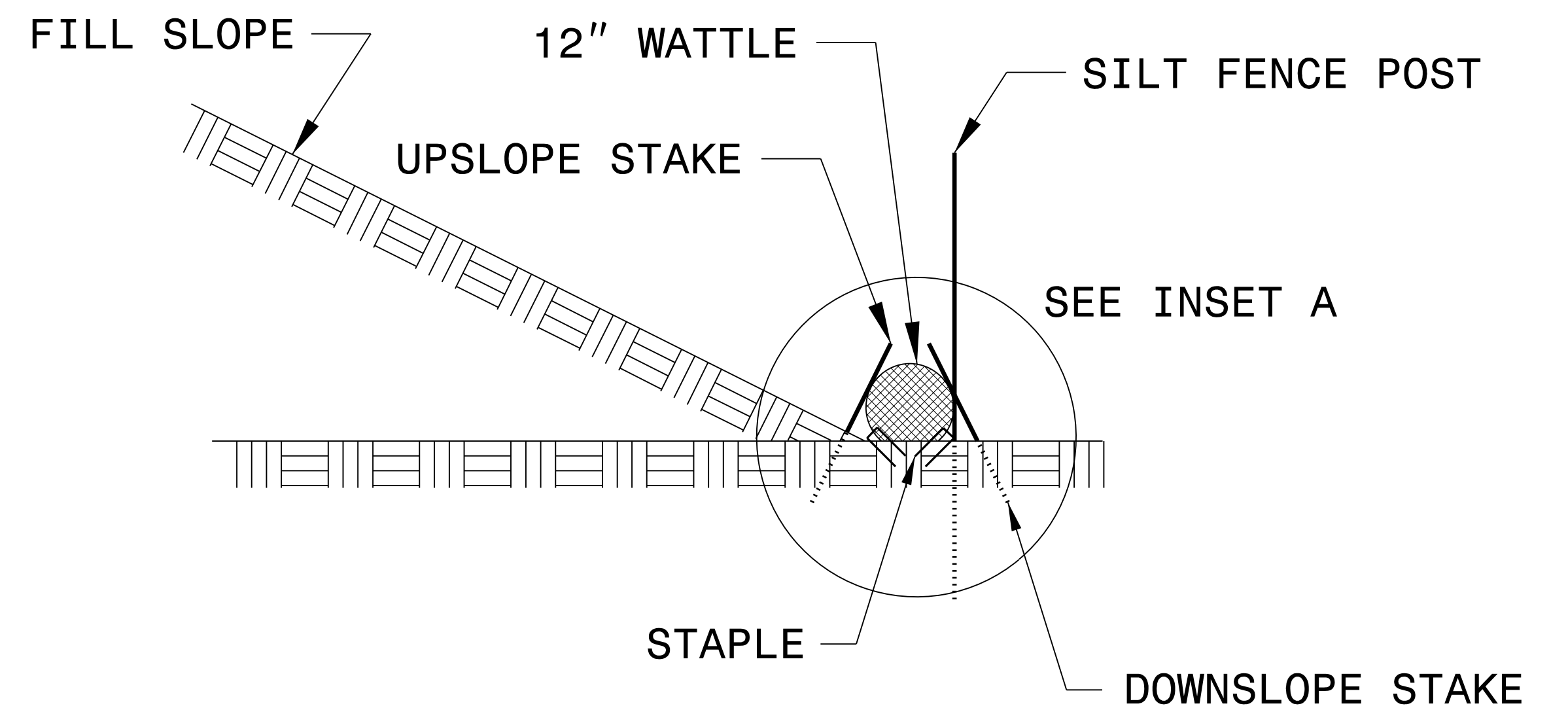
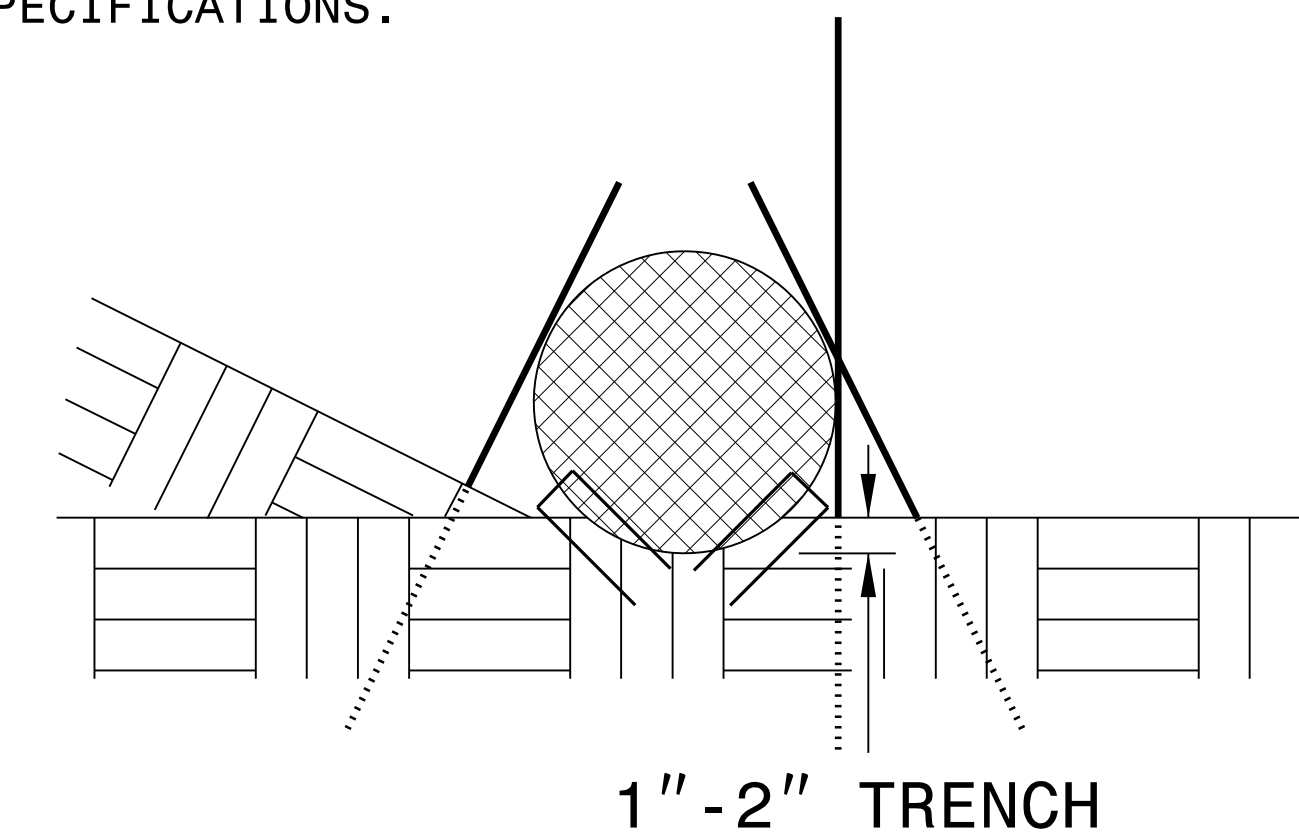
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

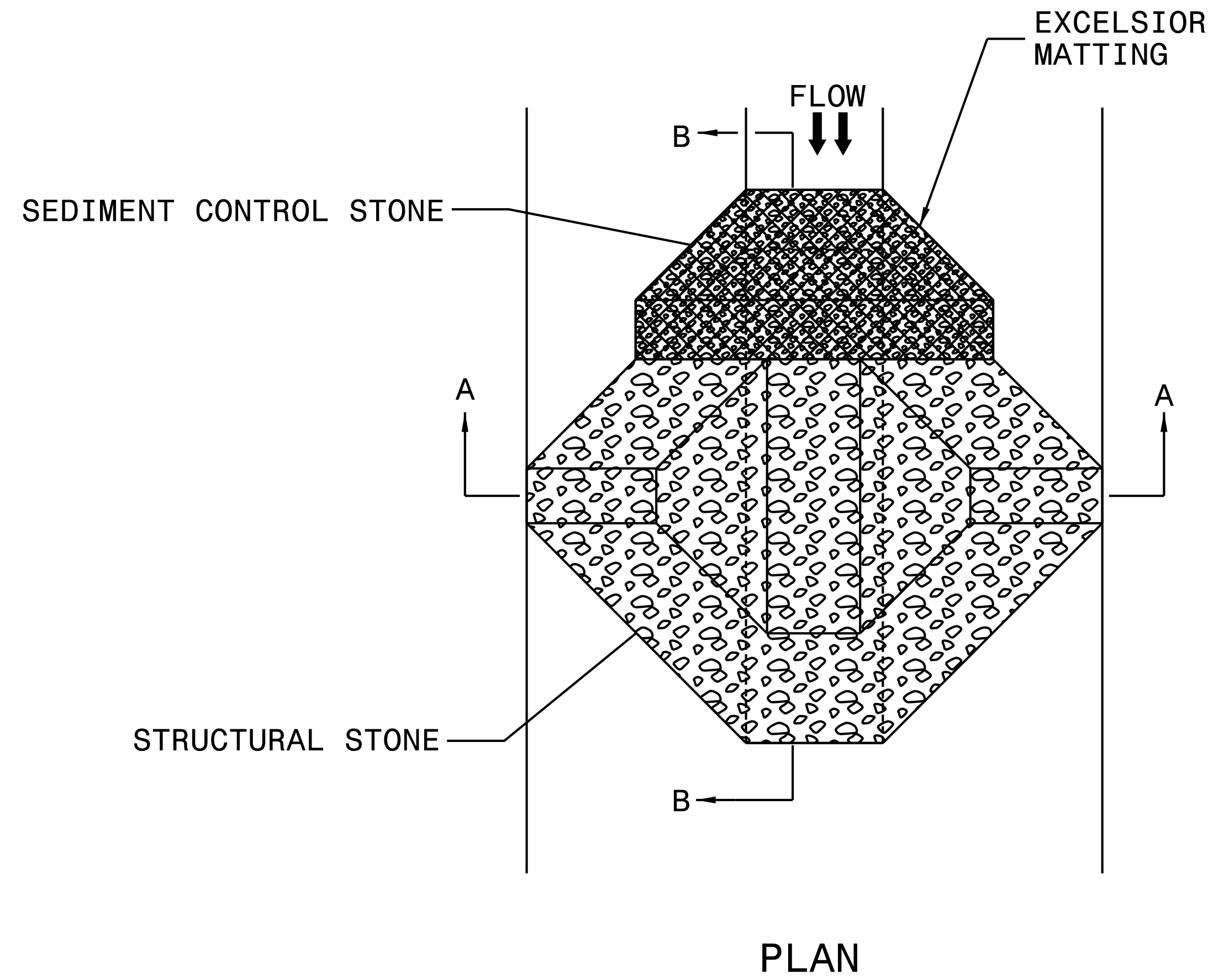
INSET A



SIDE VIEW

PROJECT REFERENCE NO. <i>BR-0118</i>	SHEET NO. <i>EC-2B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



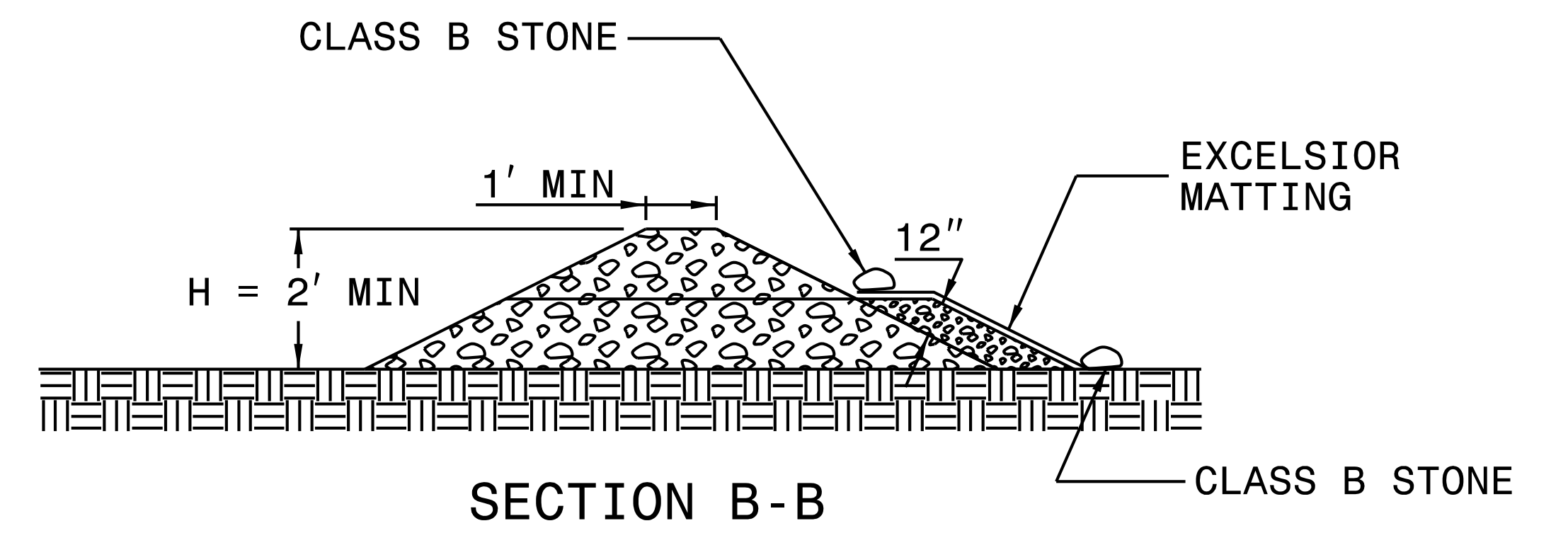
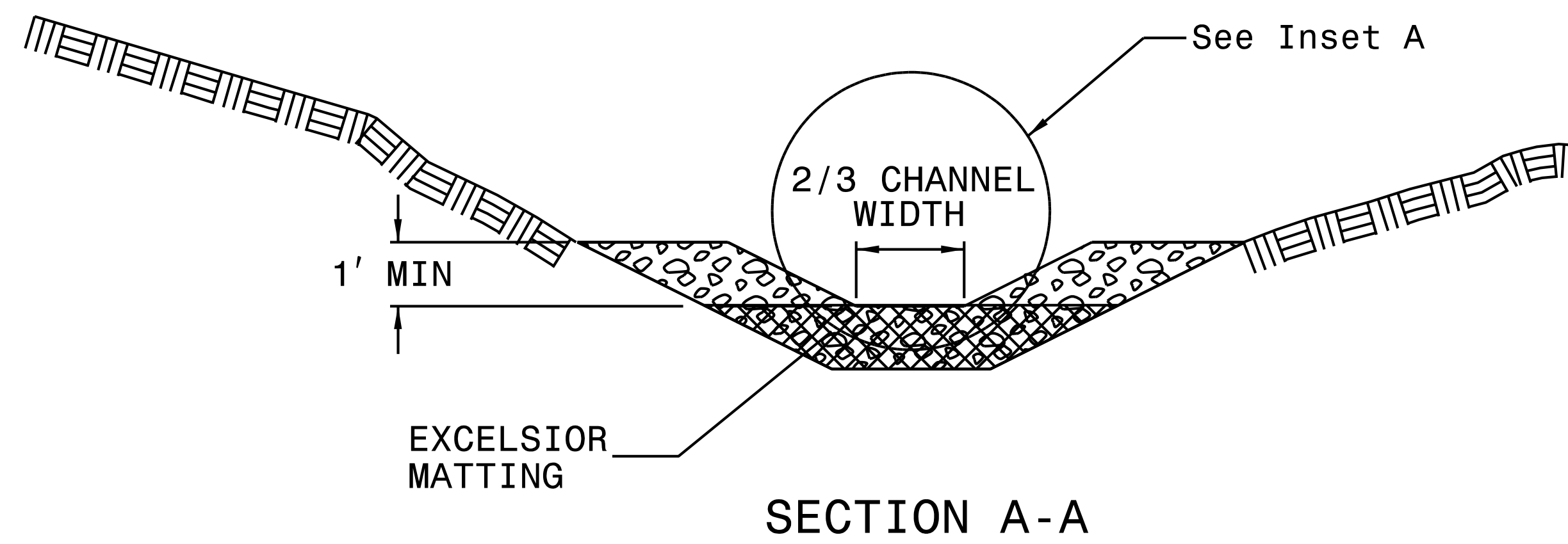
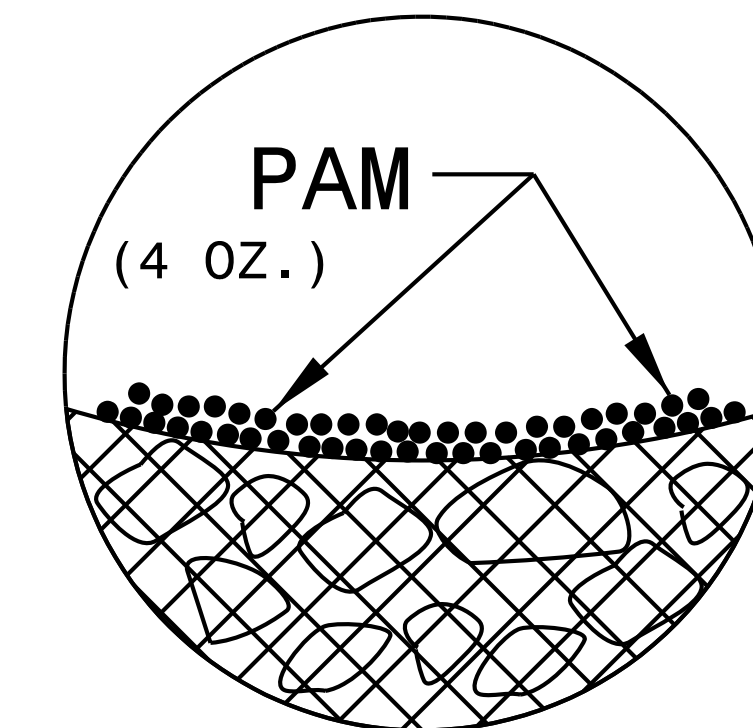
NOTES:

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.



NOT TO SCALE

7/2/99

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>BR-0118</i>	SHEET NO. <i>EC-3A</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.

BRIDGE NO. 650093

NOTES:
 1. THE CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AND UNDER THE BRIDGE, AS NEEDED OR DIRECTED BY THE ENGINEER.
 2. THE OUTSIDE BUFFER WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).
 3. IMPERVIOUS DIKE MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

-TL-

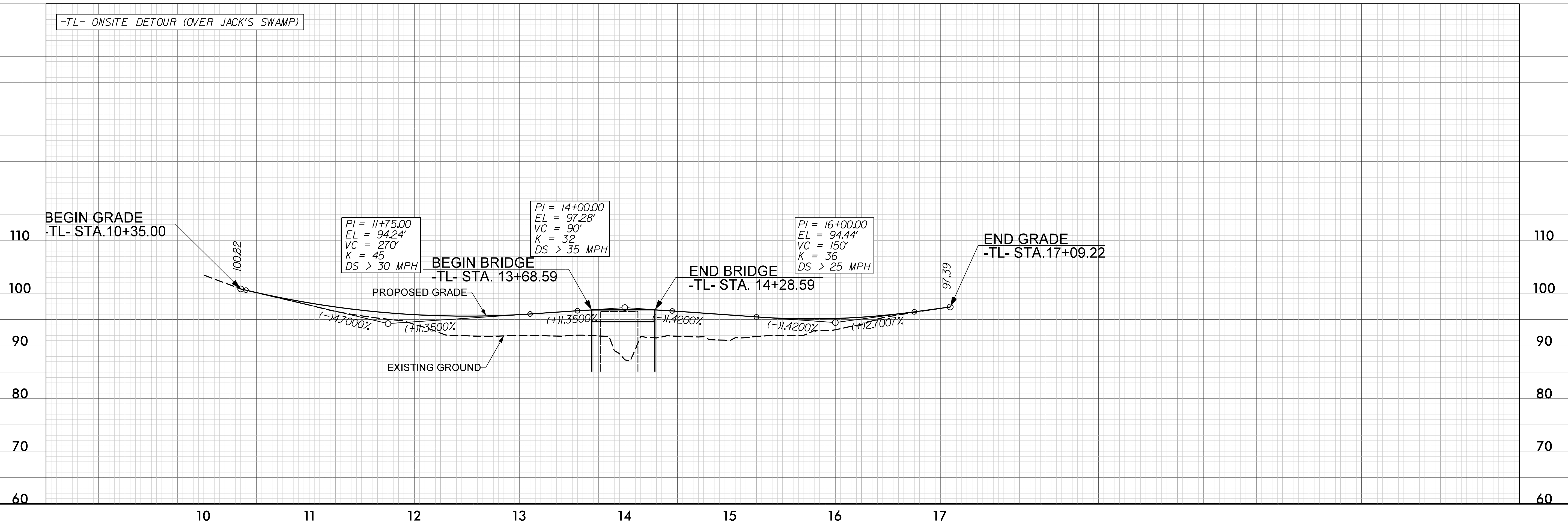
PI Sta 11+72.60 Δ = 21° 33' 25.0" (RT) D = 22° 55' 05.9" L = 94.06' T = 47.59' R = 250.00' e = NC	PI Sta 15+57.47 Δ = 23° 23' 40.3" (LT) D = 22° 55' 05.9" L = 102.08' T = 51.76' R = 250.00' e = RC
PI Sta 12+73.11 Δ = 24° 23' 56.4" (LT) D = 22° 55' 05.9" L = 106.46' T = 54.05' R = 250.00' e = RC	PI Sta 16+59.21 Δ = 23° 14' 41.3" (RT) D = 22° 55' 05.9" L = 101.42' T = 51.42' R = 250.00' e = NC

**BEGIN CONSTRUCTION
 BEGIN REGRADING**
 -TL- STA. 10+35.00
 = -L- STA. 10+35.00

END REGRADING
 -EL- STA. 17+37.24

**END CONSTRUCTION
 BEGIN REGRADING**
 PT -TL- STA. 17+09.22
 = -EL- STA. 16+97.24

-TL- ONSITE DETOUR (OVER JACK'S SWAMP)



REVISIONS

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 8/17/99
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 8/17/99

ROLAND L WILLIAMS
 DB 616 PG 865

WILLIAM H NORWOOD
 MARIE NORWOOD
 DB 555 PG 465

ELLA MAY NORWOOD HEIRS
 NO REF

JOHN MCNULTY
EROSION CONTROL
LEVEL III
CERTIFICATION #4263

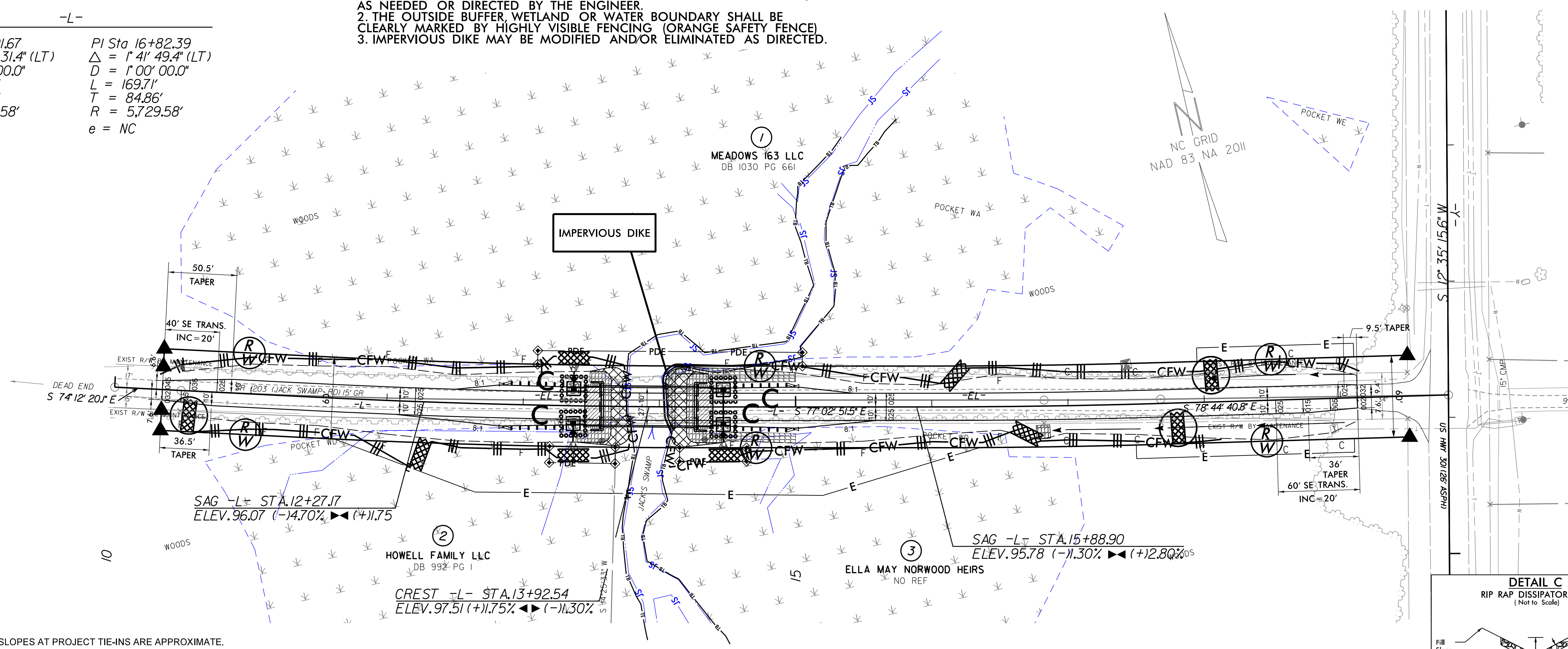
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PREPARED IN THE OFFICE OF: **KCA**
KISINGER CAMPO & ASSOCIATES
NC FIRM LICENSE NO. C-1508
301 Fayetteville St., Suite 1500
Raleigh, NC 27601
(919)862-7839

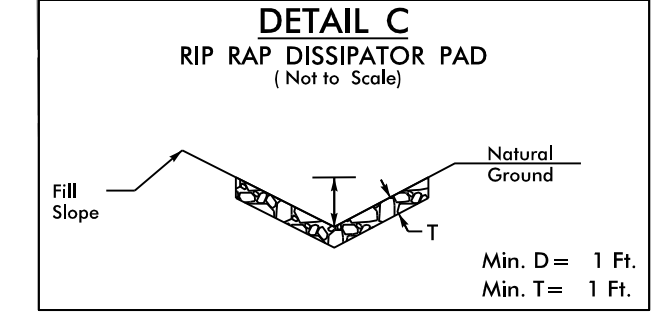
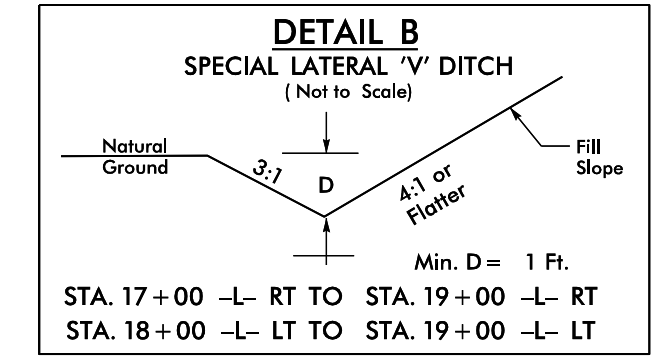
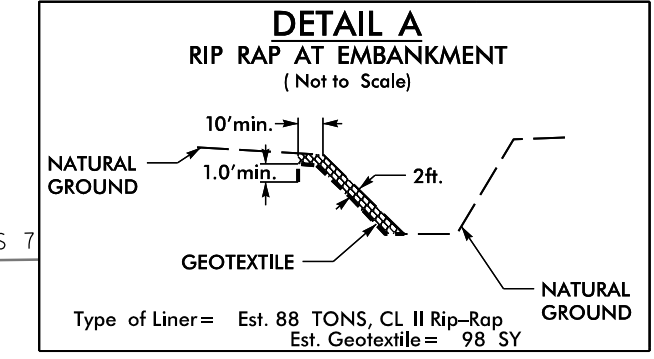
- NOTES:
1. THE CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AND UNDER THE BRIDGE, AS NEEDED OR DIRECTED BY THE ENGINEER.
 2. THE OUTSIDE BUFFER WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).
 3. IMPERVIOUS DIKE MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

-L-

PI Sta 12+91.67	PI Sta 16+82.39
$\Delta = 2^{\circ}50'31.4"$ (LT)	$\Delta = 1^{\circ}41'49.4"$ (LT)
D = 1'00'00.0"	D = 1'00'00.0"
L = 284.21'	L = 169.71'
T = 142.13'	T = 84.86'
R = 5,729.58'	R = 5,729.58'
e = NC	e = NC

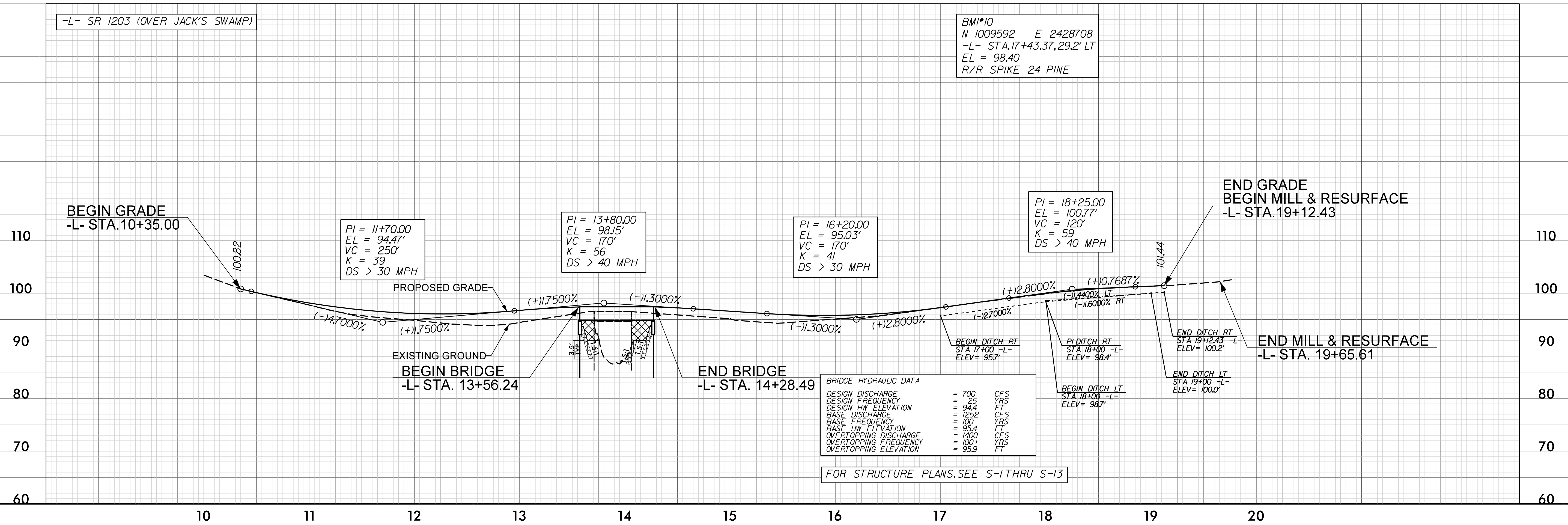


NOTE: CROSS SLOPES AT PROJECT TIE-INS ARE APPROXIMATE.
CONTRACTOR TO ENSURE APPROPRIATE CROSS SLOPE TRANSITIONS TO EXISTING CONDITION



-L- SR 1203 (OVER JACK'S SWAMP)

BMI#10
N 1009592 E 2428708
-L- STA. 17+43.37, 29.2' LT
EL = 98.40
R/R SPIKE 24 PINE



REVISIONS

12-FEB-2020, 14:23 G:\4201720\XX_S\U-Build Grant\BR-0118.D\Northampton 93\Hydraulics\CADD\EROSION CONTROL\BR-0118_EC_psh.dgn