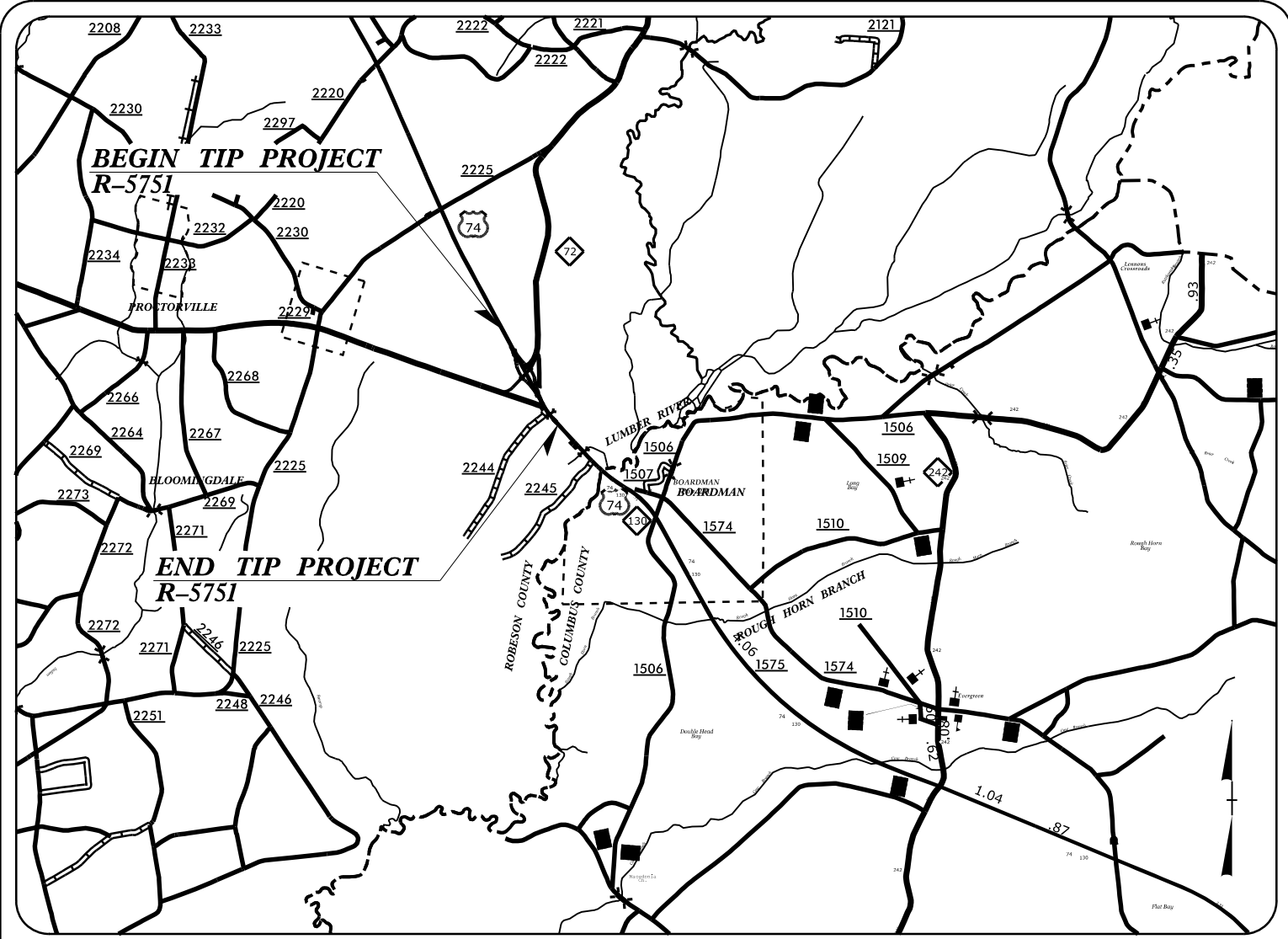


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with their signature on that page.**

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

TIP PROJECT: R-5751



VICINITY MAP
NOT TO SCALE

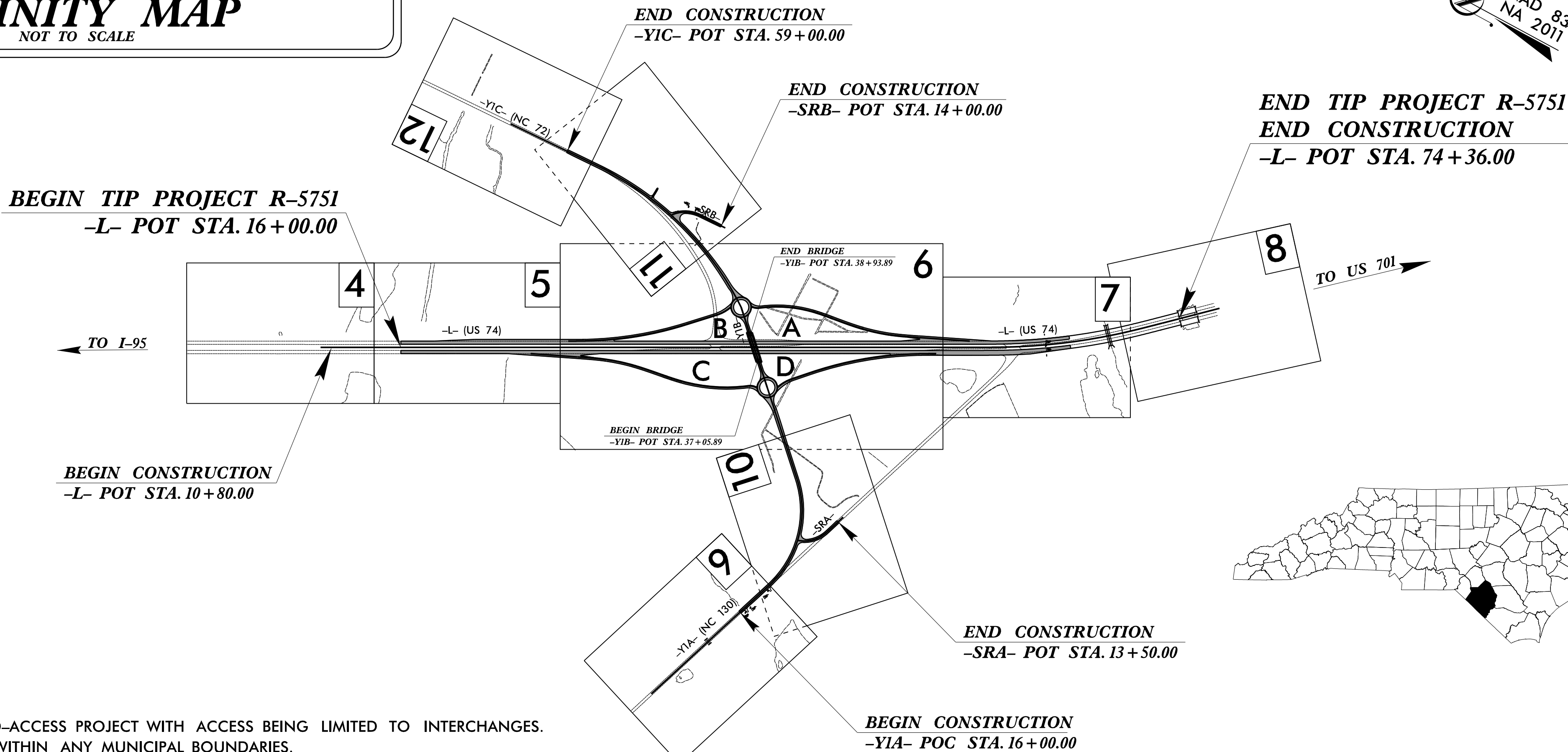
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ROBESON COUNTY

LOCATION: US 74 AT NC 72 / NC 130
CONVERT INTERSECTION TO INTERCHANGE

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



THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5751	EC-1	25
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	△△△△△
1622.01	Temporary Berms and Slope Drains	▽▽▽▽▽
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
1633.02	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.02	Temporary Rock Silt Check Type-B	▨
1633.02	Wattle / Coir Fiber Wattle	○
1633.02	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	U
1635.02	Rock Pipe Inlet Sediment Trap Type-B	U
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
1632.01	Rock Inlet Sediment Trap: 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



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:
RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

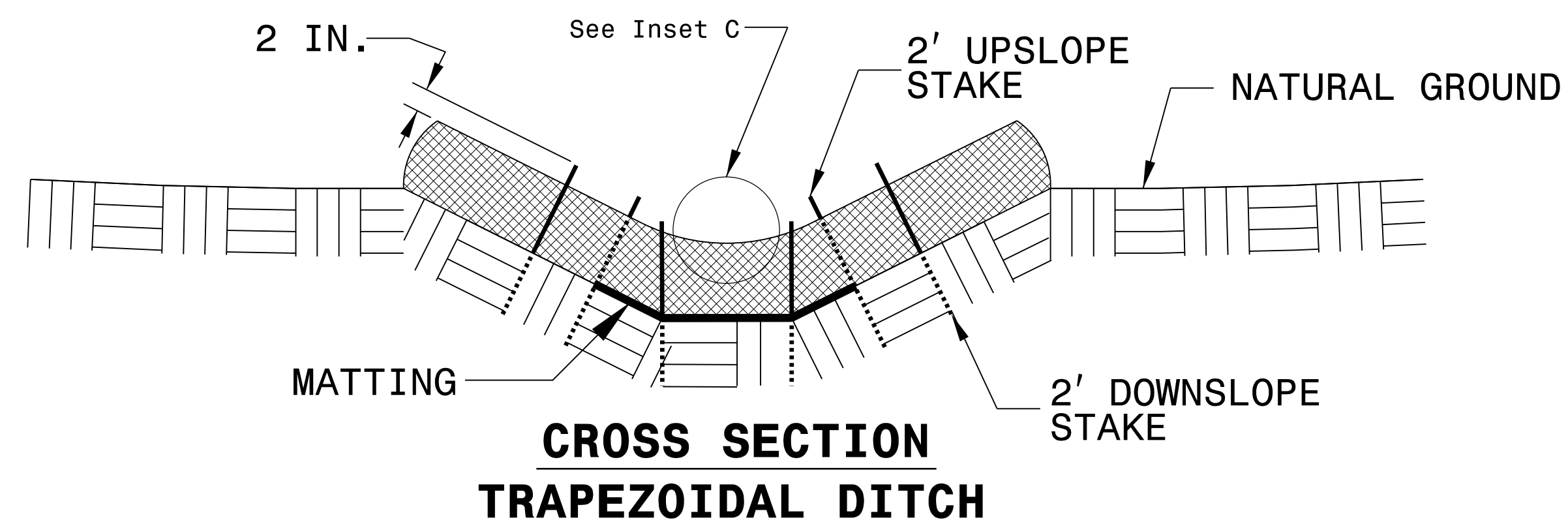
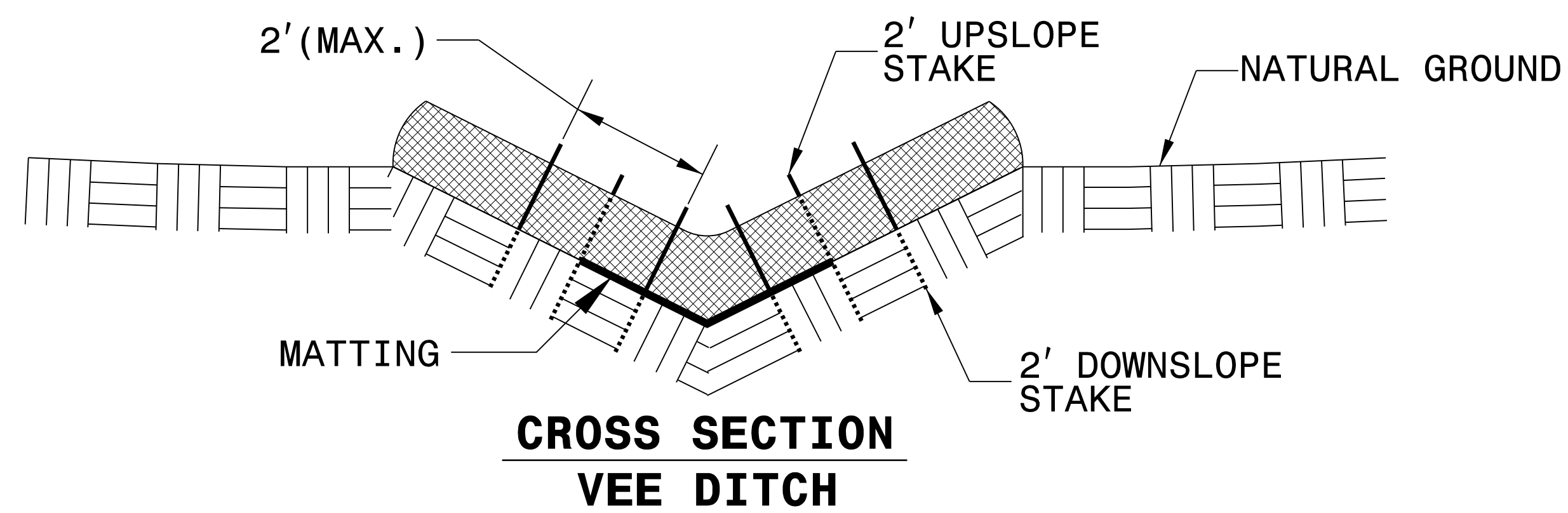
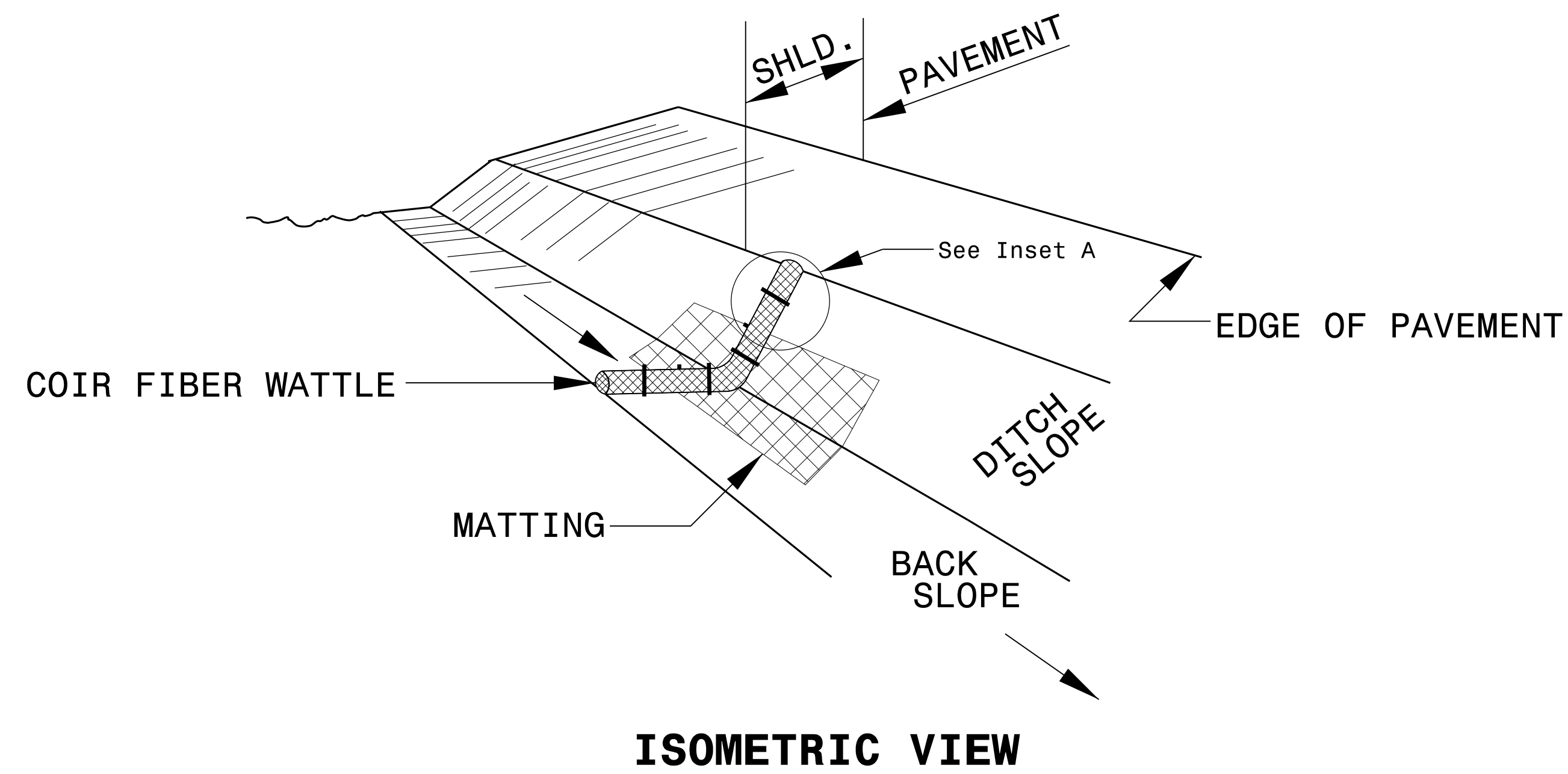
Designed by:
COLE BENJAMIN, P.E. 3977
NAME LEVEL III CERTIFICATION NO.

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.

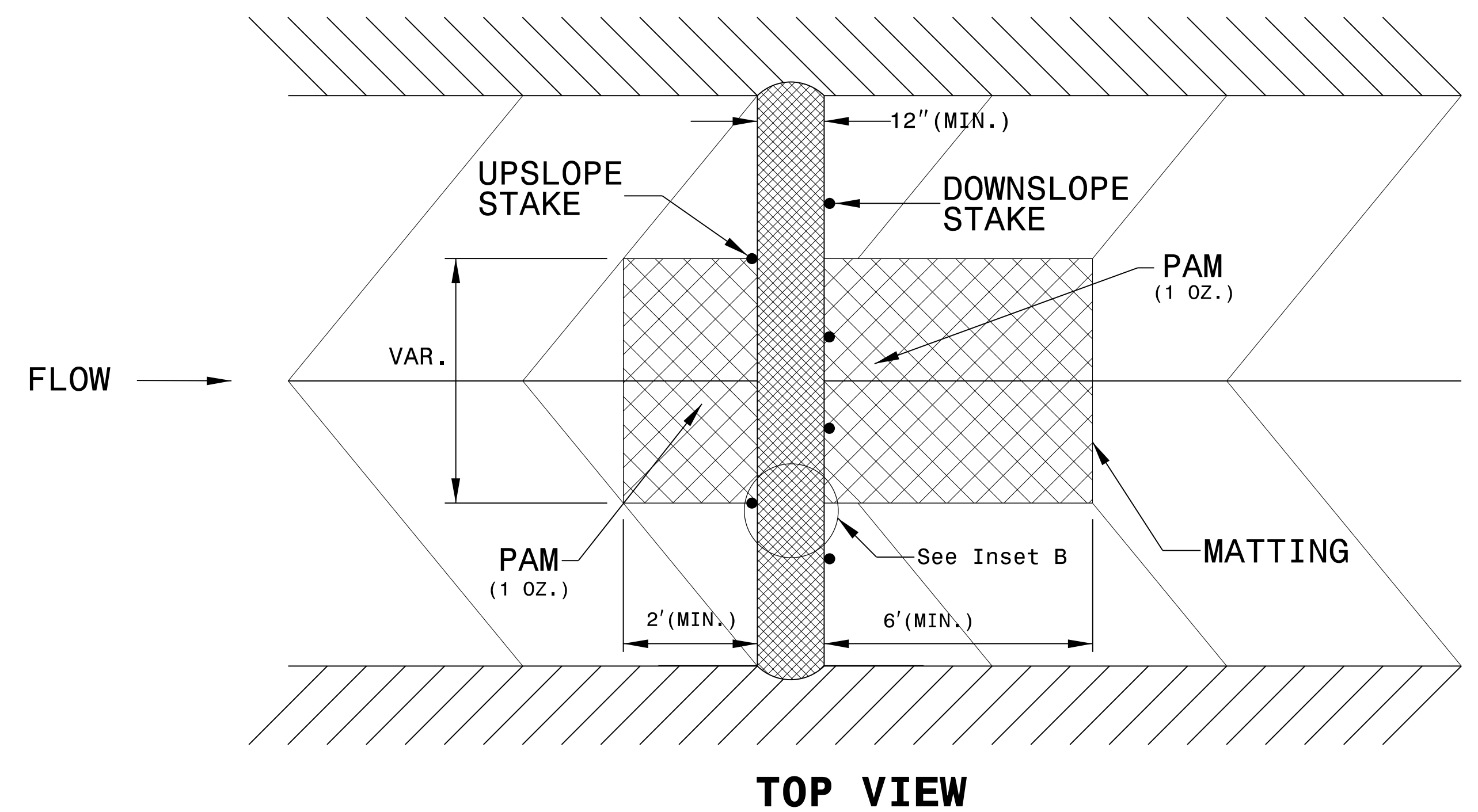
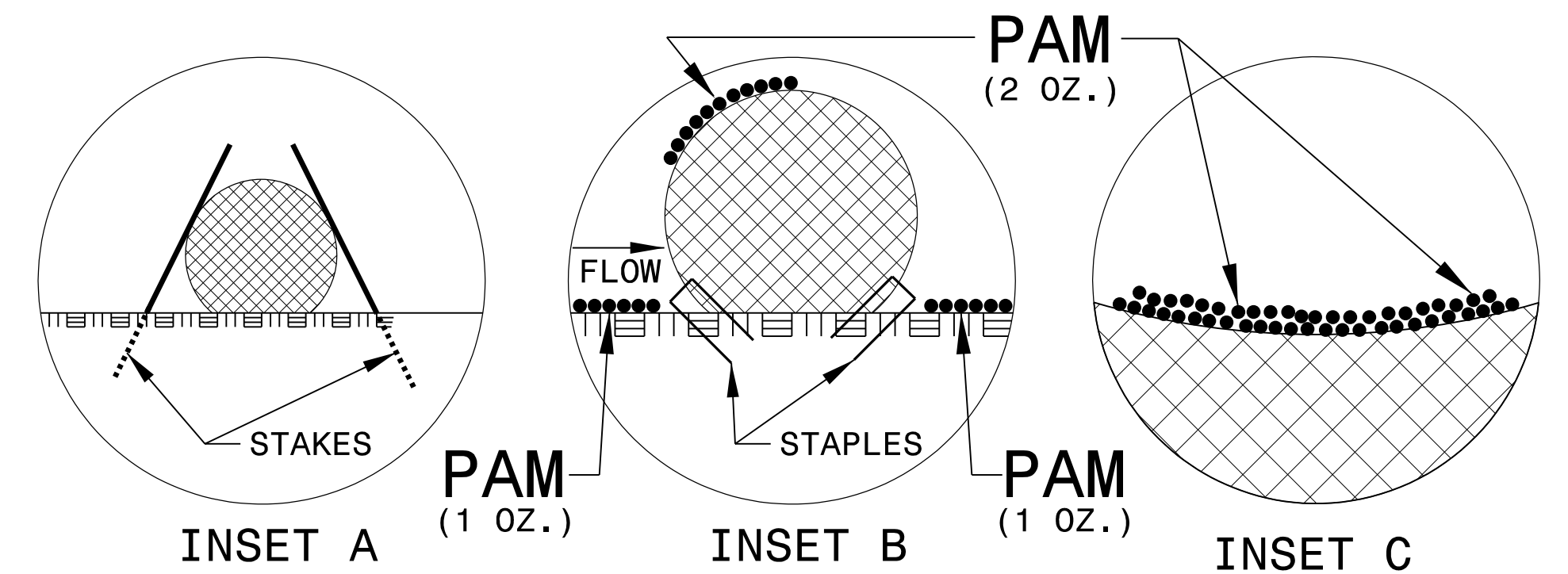
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type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

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

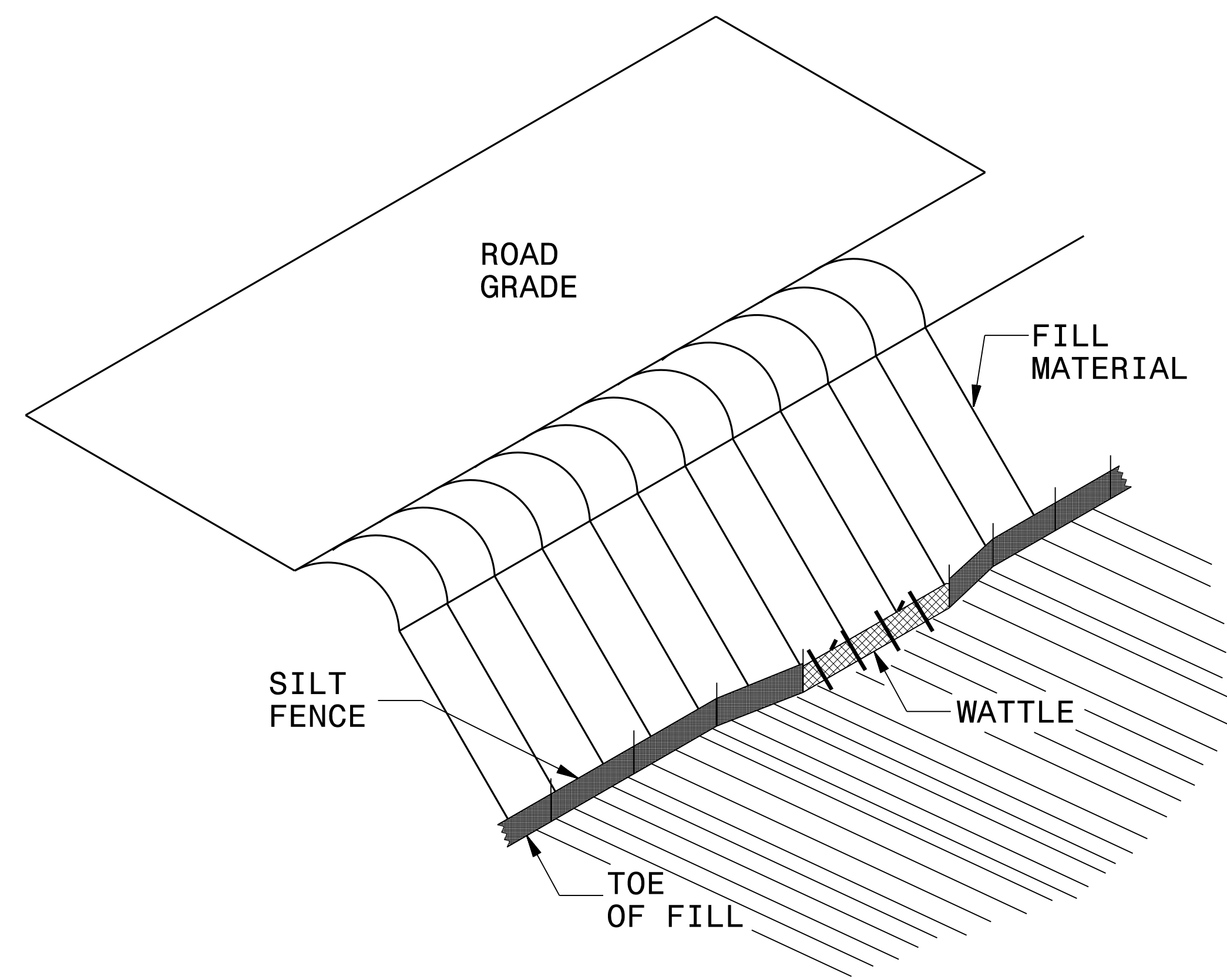


NOTES:

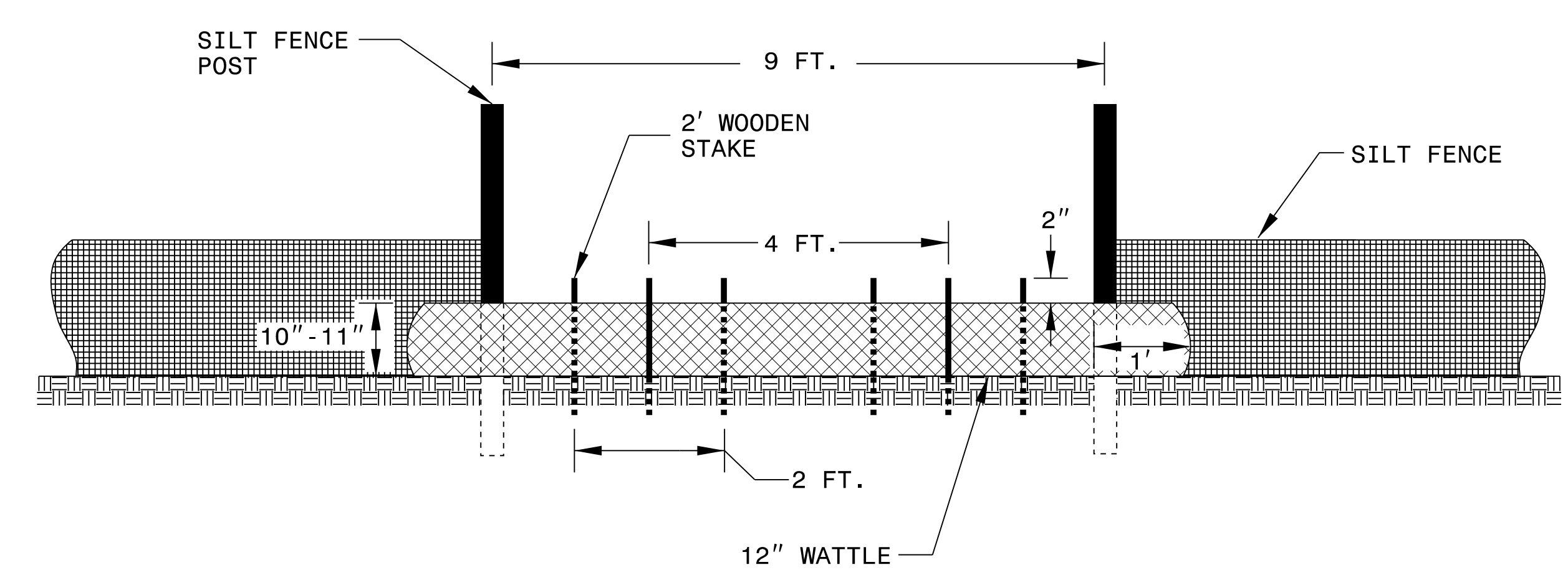
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 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 EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW

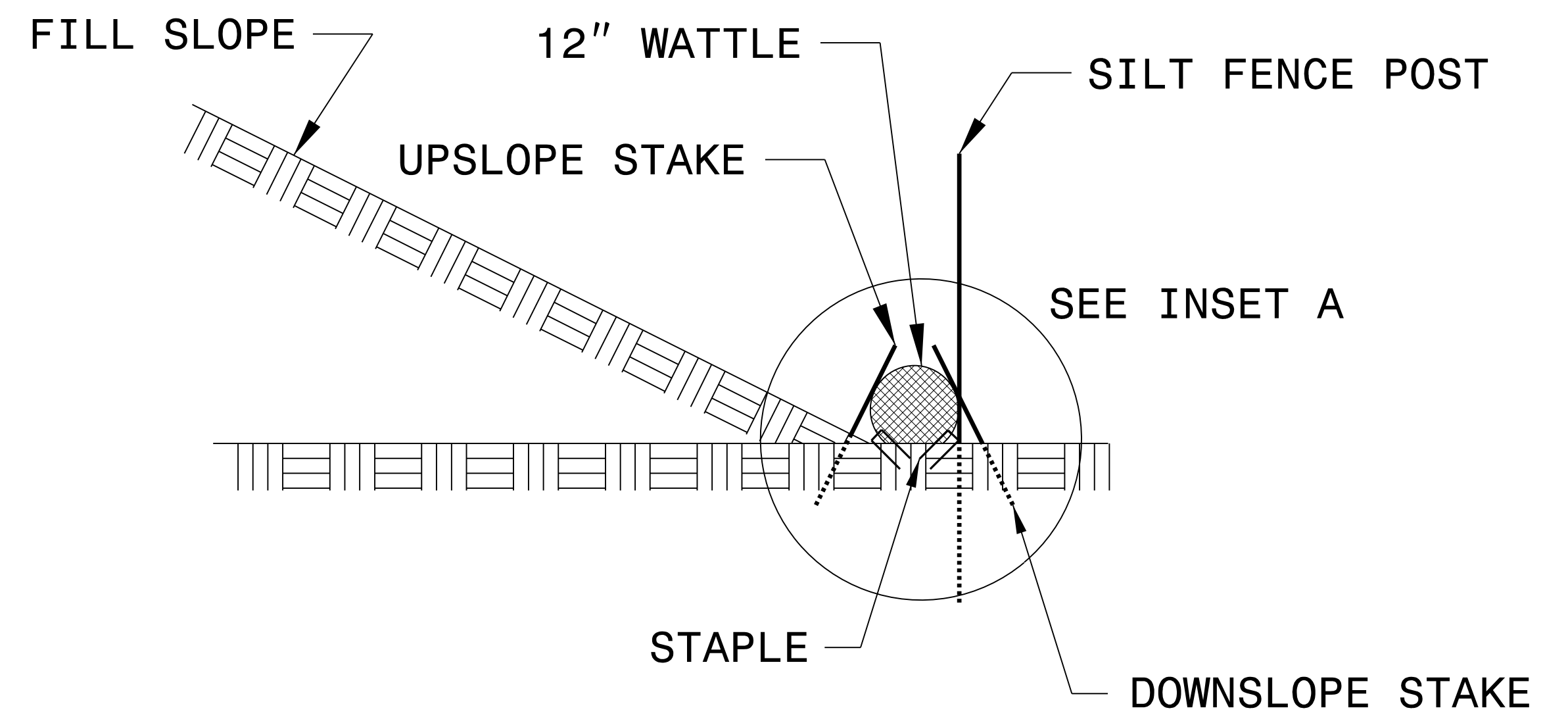
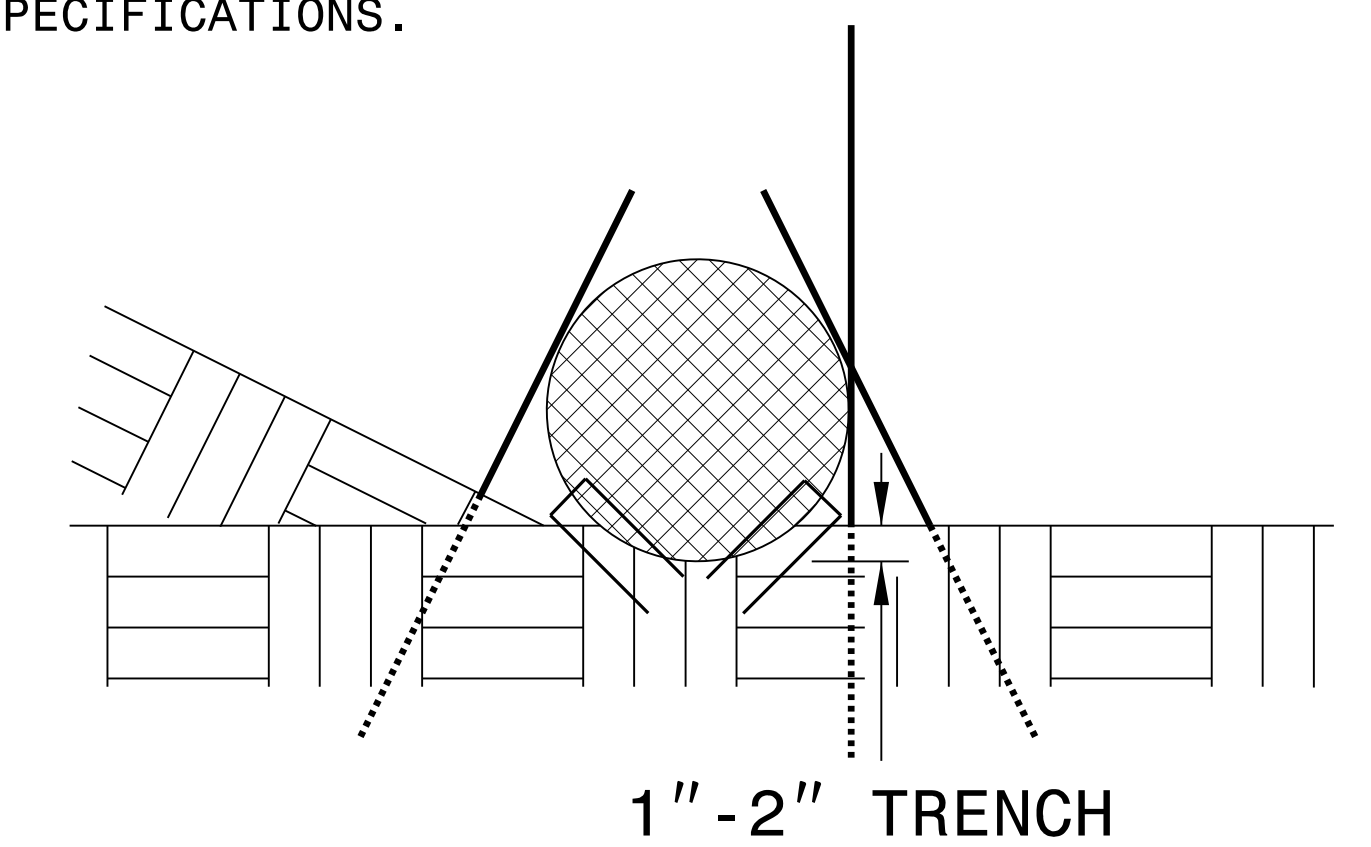


VIEW FROM SLOPE

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

BORROW PIT DEWATERING BASIN DETAIL

GENERAL NOTES:

DETERMINE BORROW PIT DEWATERING BASIN SIZE USING $V = 8.0203 * Q * T$, WHERE V IS VOLUME (FT³), Q IS PUMP FLOW RATE (GPM), AND T IS DEWATERING TIME (HR). USE MAXIMUM FLOW RATE OF 1000 GPM AND A MINIMUM DEWATERING TIME OF 2 HOURS.

RISER SHALL BE A NON-PERFORATED, SMOOTH OR CORRUGATED MATERIAL WITH A FLASHBOARD OPTION.

CONSTRUCT THE COIR FIBER BAFFLE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1640.01 AND WITH MATERIAL THAT MEETS THE SPECIFICATIONS OF ROADWAY STANDARD 1640-14.

PROVIDE 5' STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 3' OF THE POST APPEARING ABOVE THE GROUND.

ATTACH THE COIR FIBER MAT TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE BOTTOM AND SIDE SLOPES OF THE BASIN WITH 12" STAPLES.

INSTALL TYPE 2 GEOTEXTILE ON SIDESLOPES AND BOTTOM OF BASIN AT INLET AS SHOWN IN THE DETAIL.

USE THE TYPICAL SECTION SHOWN FOR THE BORROW PIT DEWATERING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A NON-PERFORATED RISER.

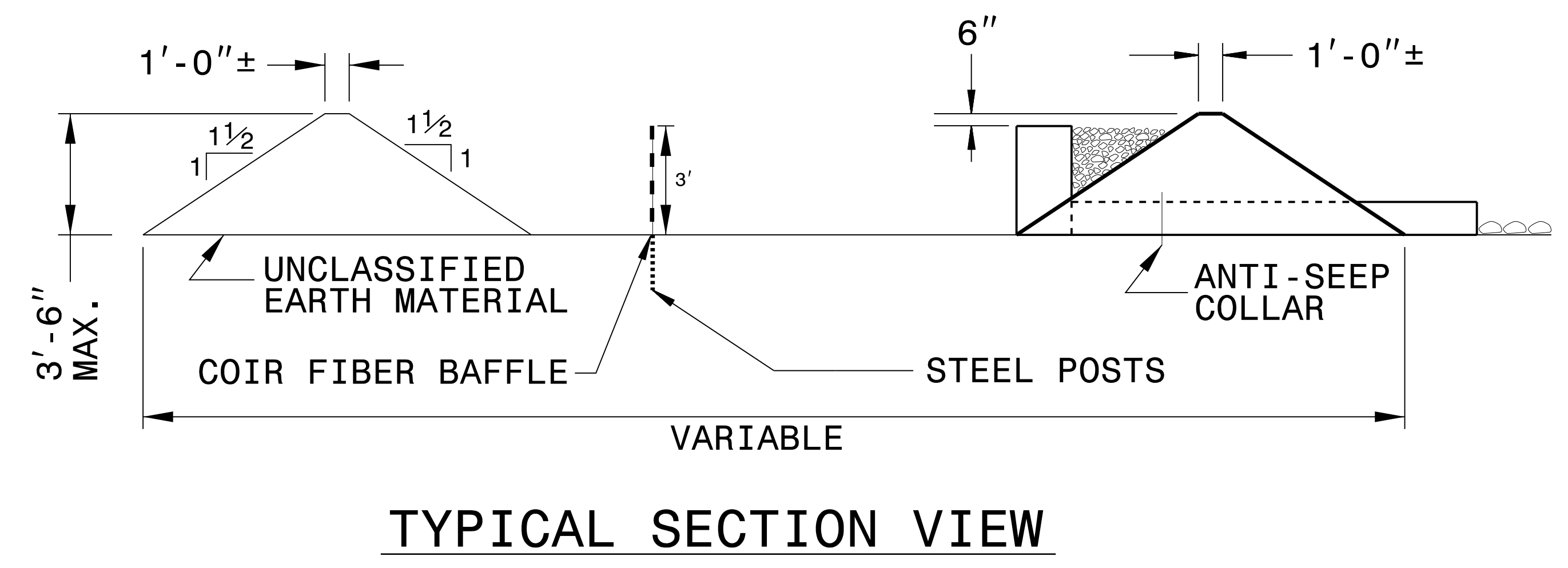
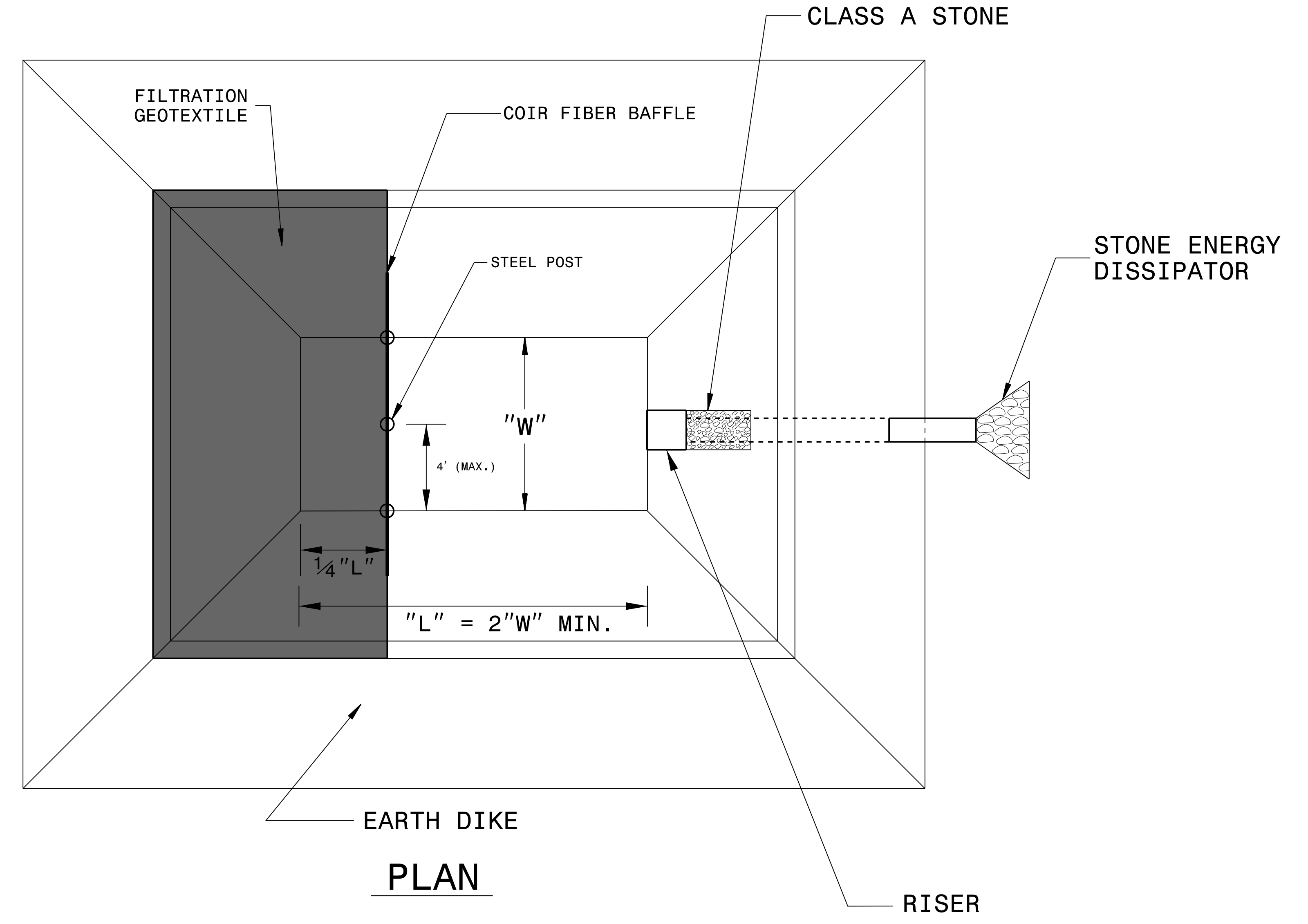
DO NOT EXCEED 3 1/2 FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

THE BORROW PIT DEWATERING BASIN SIZE IS VARIABLE AND DEPENDENT ON SPECIFIC SITE REQUIREMENTS AS WELL AS PROPOSED CONSTRUCTION OPERATIONS.

SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

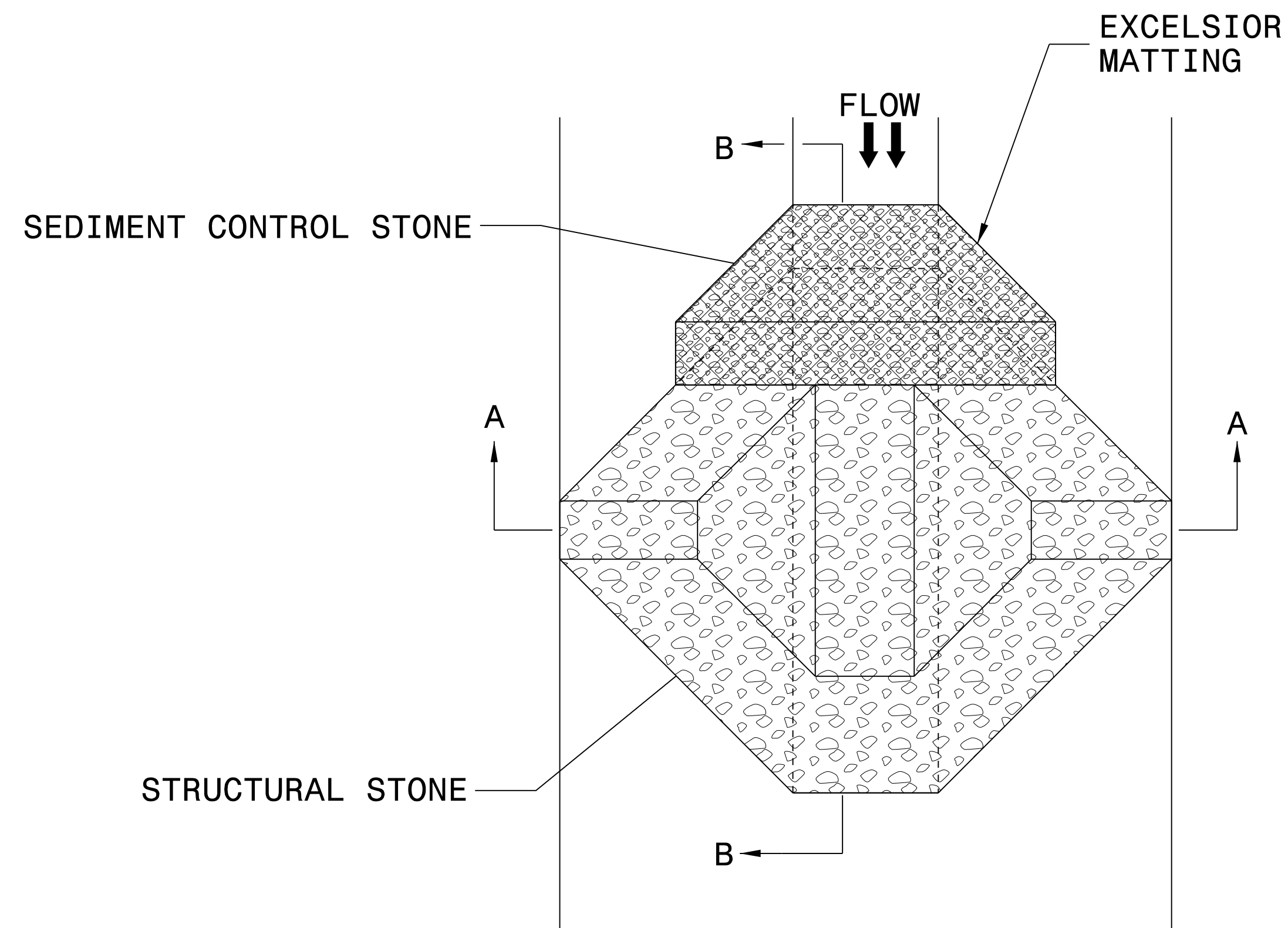
PUMP THE EFFLUENT INTO THE BORROW PIT DEWATERING BASIN TO A MAXIMUM DEPTH OF 6 IN. BELOW TOP OF EARTH DIKE.

PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



NOT TO SCALE

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



PLAN

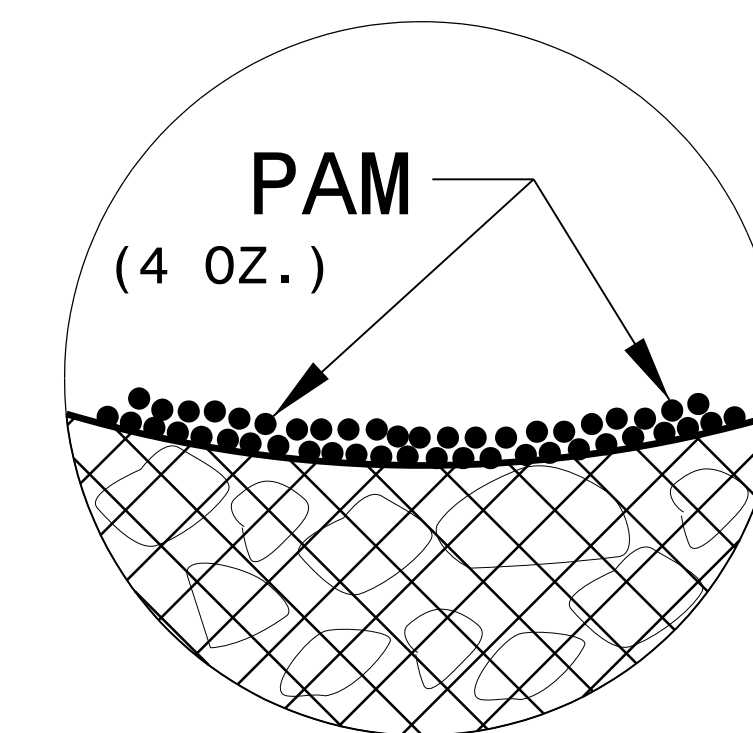
NOTES:

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

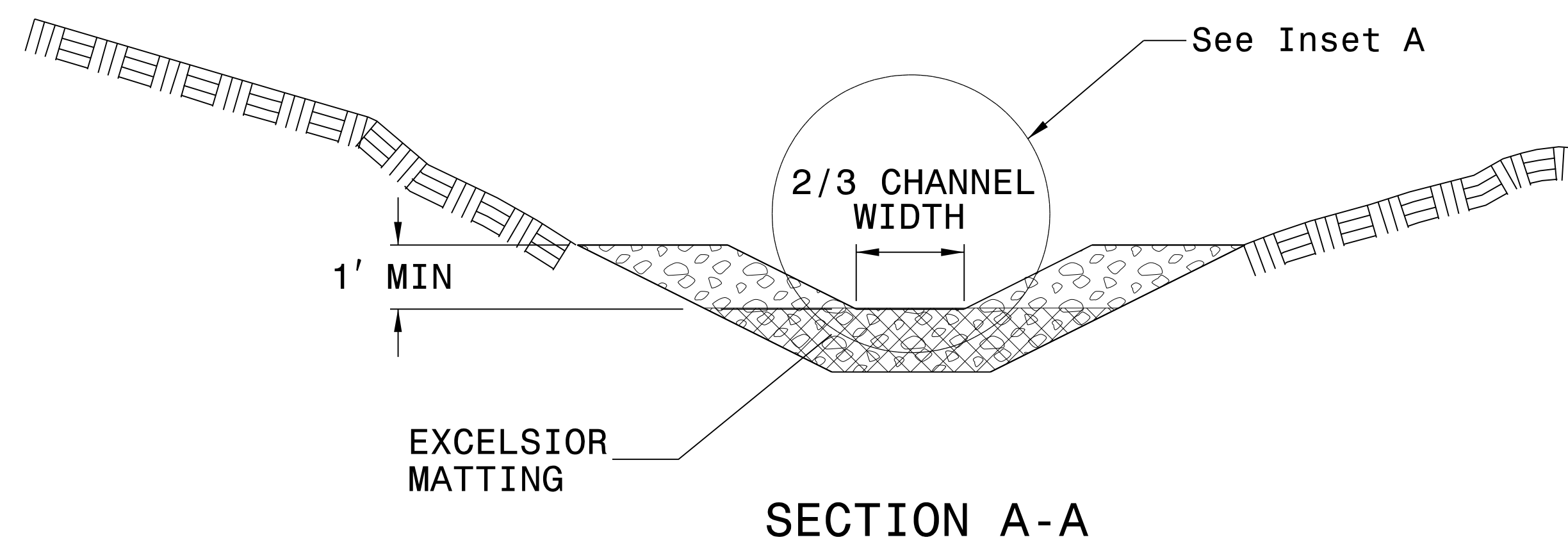
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

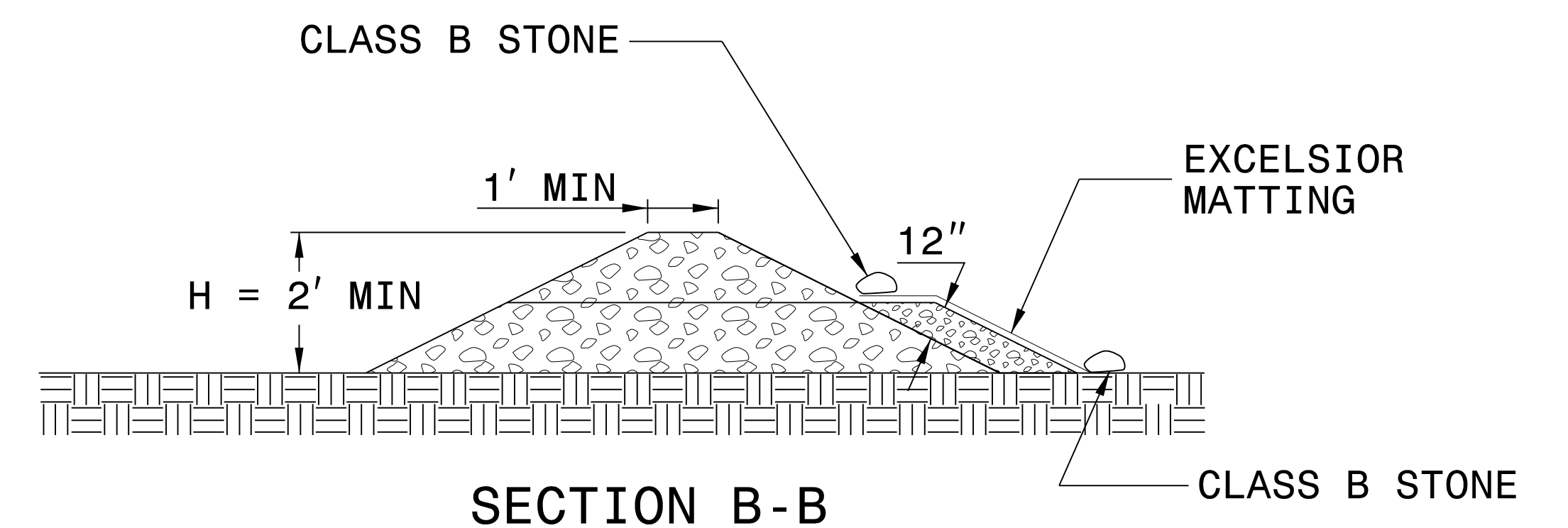
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.

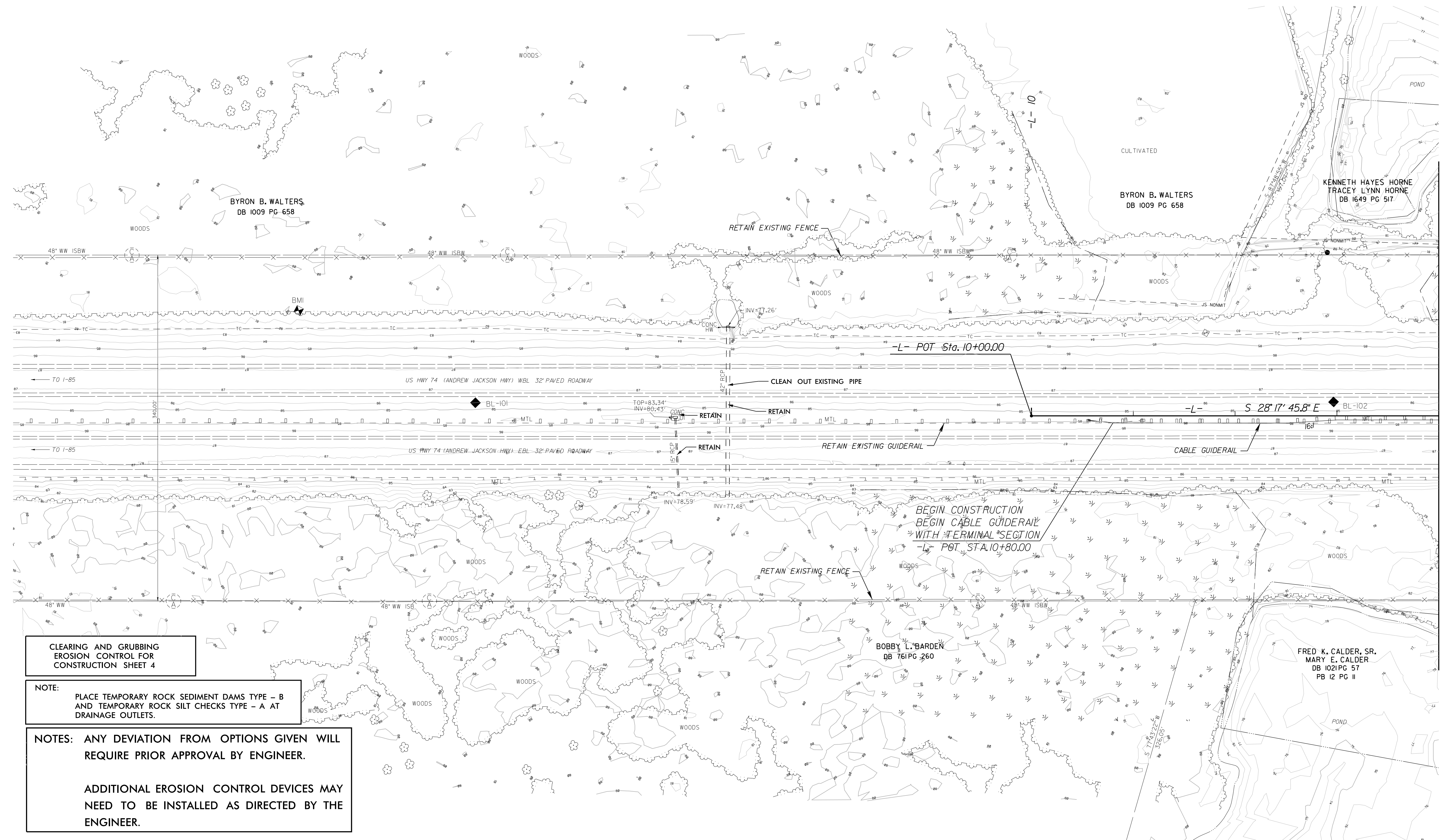
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NC FIRM LICENSE No: F-0493

REVISIONS

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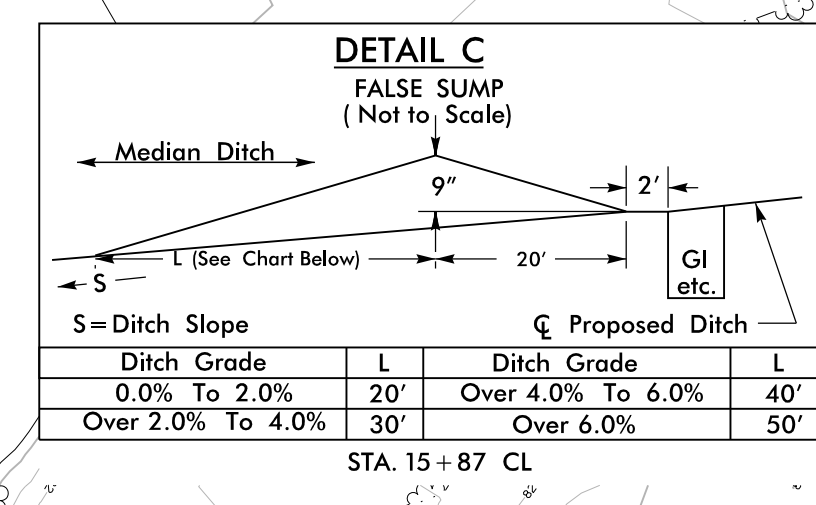
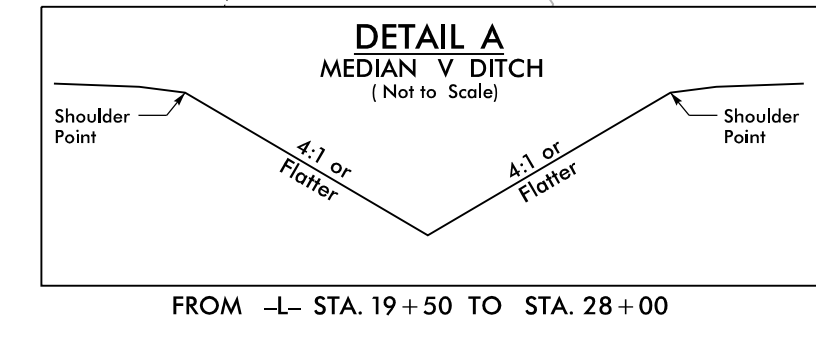
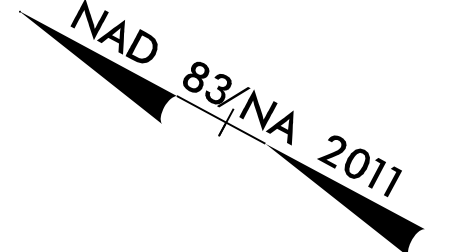
**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4**

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

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.

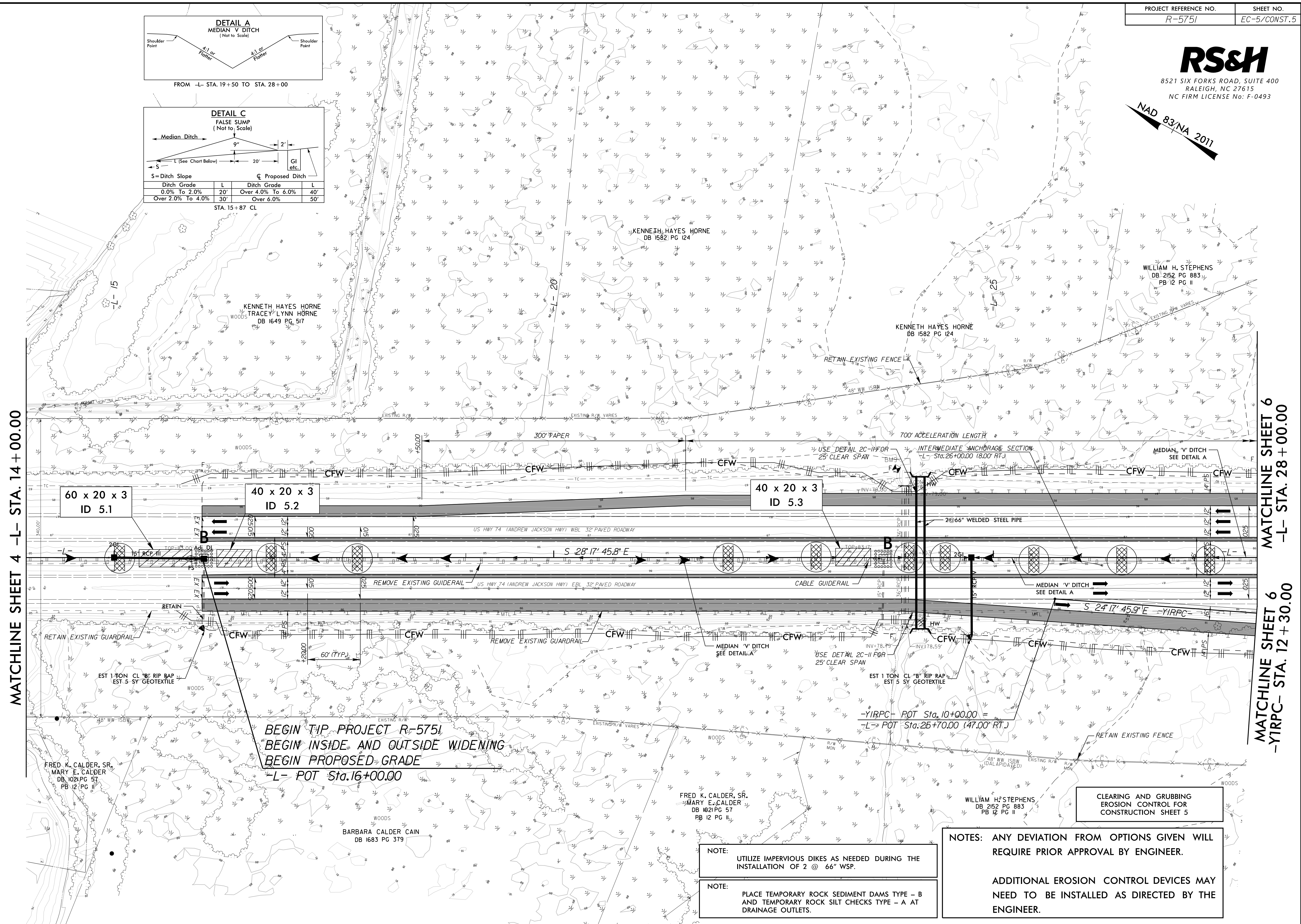
ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.

MATCHLINE SHEET 5 -L- STA. 14 + 00.00



MATCHLINE SHEET 4 -L- STA. 14+00.00

MATCHLINE SHEET 6 -L- STA. 28+00.00
MATCHLINE SHEET 6 -YIRPC- STA. 12+30.00



BEGIN TIP PROJECT R-5751
BEGIN INSIDE AND OUTSIDE WIDENING
BEGIN PROPOSED GRADE
 -L- POT Sta. 16+00.00

-YIRPC- POT Sta. 10+00.00
 -L- POT Sta. 26+70.00 (47.00' RT.)

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 5

NOTE:
 UTILIZE IMPERVIOUS DIKES AS NEEDED DURING THE
 INSTALLATION OF 2 @ 66" WSP.

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

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
 REQUIRE PRIOR APPROVAL BY ENGINEER.

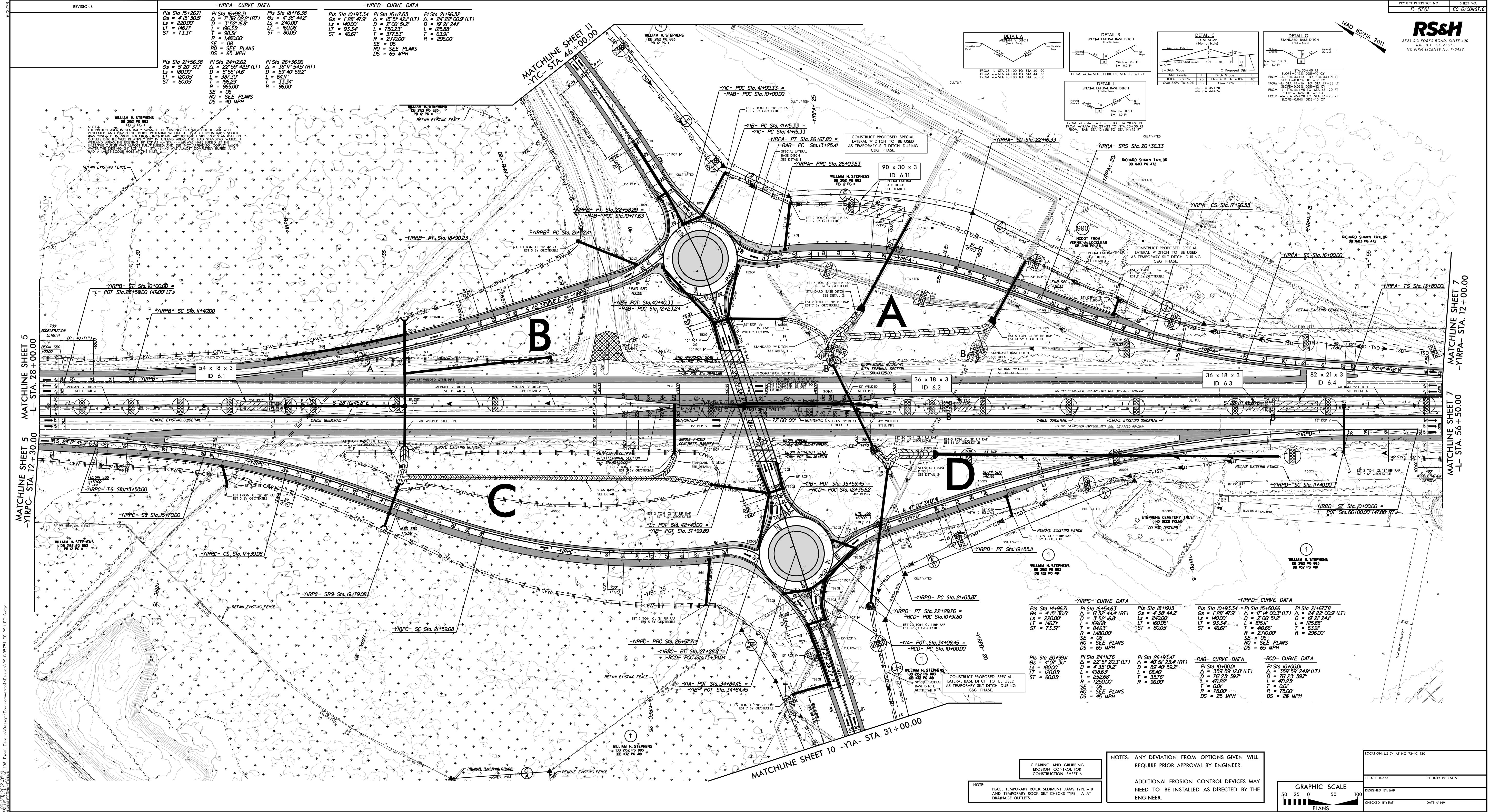
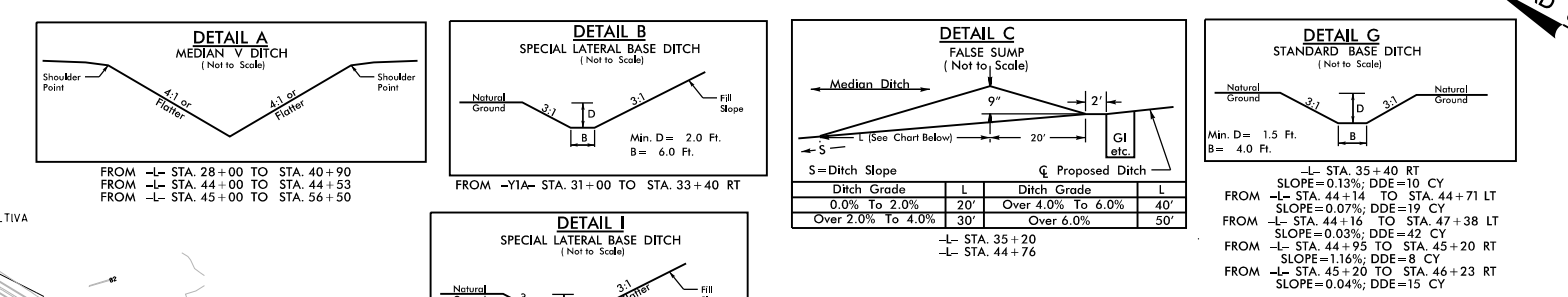
ADDITIONAL EROSION CONTROL DEVICES MAY
 NEED TO BE INSTALLED AS DIRECTED BY THE
 ENGINEER.

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 \$\$\$BUSINESS\$\$\$

REVISIONS

-YIRPA- CURVE DATA		-YIRPB- CURVE DATA	
PI Sta 16+96.71	PI Sta 18+76.38	PI Sta 10+93.34	PI Sta 15+17.53
CS = 4' 10" 30.5'	CS = 4' 38" 44.2'	CS = 7' 28" 47.5'	CS = 10' 51" 02.1'
LS = 220.00'	LS = 240.00'	LS = 140.00'	LS = 200.00'
LT = 146.77'	LT = 160.00'	LT = 93.34'	LT = 130.00'
ST = 73.37'	ST = 80.00'	ST = 46.67'	ST = 66.67'
R = 1480.00'	R = 1500.00'	R = 1480.00'	R = 2700.00'
SE = 08	SE = 08	SE = 08	SE = 08
RD = SEE PLANS	RD = SEE PLANS	RD = SEE PLANS	RD = SEE PLANS
DS = 65 MPH	DS = 65 MPH	DS = 65 MPH	DS = 65 MPH

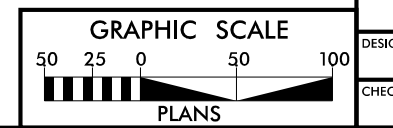
NOTE: THE PROJECT AREA IS CONSIDERED TO BE A WETLAND AS DEFINED BY THE FEDERAL REGULATIONS AND STATE REGULATIONS. THE WETLANDS ARE SHOWN ON THIS PLAN AND ARE TO BE PROTECTED. ANY CONSTRUCTION SHALL BE LIMITED TO THE WETLANDS AREAS SHOWN ON THIS PLAN. ANY CONSTRUCTION SHALL BE LIMITED TO THE WETLANDS AREAS SHOWN ON THIS PLAN. ANY CONSTRUCTION SHALL BE LIMITED TO THE WETLANDS AREAS SHOWN ON THIS PLAN.

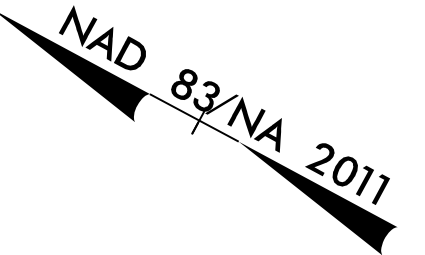


-YIRPC- CURVE DATA		-YIRPD- CURVE DATA	
PI Sta 14+96.71	PI Sta 16+56.63	PI Sta 10+93.34	PI Sta 15+06.66
CS = 4' 10" 30.5'	CS = 4' 38" 44.2'	CS = 7' 28" 47.5'	CS = 10' 51" 02.1'
LS = 220.00'	LS = 240.00'	LS = 140.00'	LS = 200.00'
LT = 146.77'	LT = 160.00'	LT = 93.34'	LT = 130.00'
ST = 73.37'	ST = 80.00'	ST = 46.67'	ST = 66.67'
R = 1480.00'	R = 1500.00'	R = 1480.00'	R = 2700.00'
SE = 08	SE = 08	SE = 08	SE = 08
RD = SEE PLANS	RD = SEE PLANS	RD = SEE PLANS	RD = SEE PLANS
DS = 65 MPH	DS = 65 MPH	DS = 65 MPH	DS = 65 MPH

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

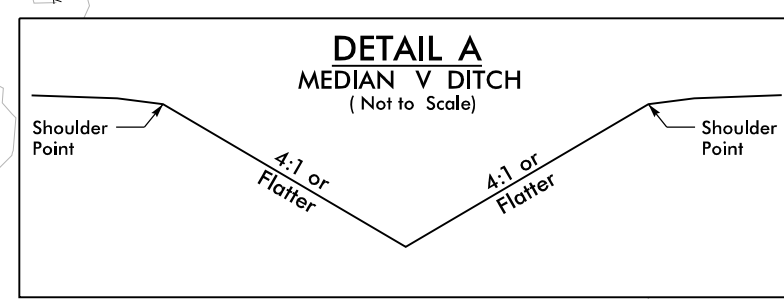
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER. ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.





-L- CURVE DATA

Pls Sta 60+65.59 $\Theta_s = 1^{\circ}54'35.5''$ $L_s = 300.00'$ $LT = 200.01'$ $ST = 100.01'$	Pls Sta 65+86.83 $\Delta = 10^{\circ}41'45.2''$ (LT) $D = 1^{\circ}16'23.7''$ $L = 840.05'$ $T = 421.25'$ $R = 4500.00'$ $SE = 05$ $RO = \text{SEE PLANS}$	Pls Sta 71+05.64 $\Theta_s = 1^{\circ}54'35.5''$ $L_s = 300.00'$ $LT = 200.01'$ $ST = 100.01'$
--	---	--



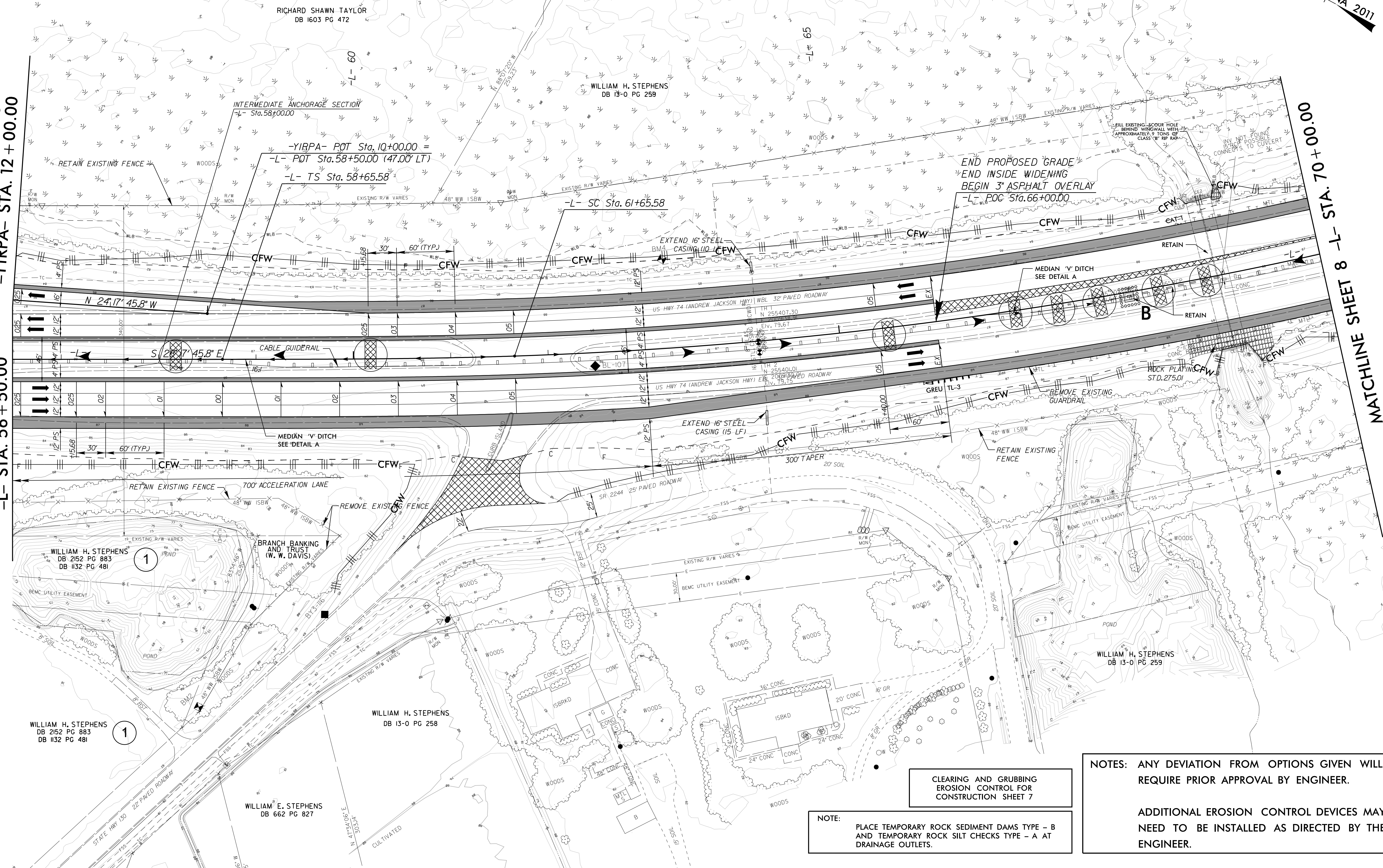
FROM -L- STA. 56+50 TO STA. 63+00
 FROM -L- STA. 66+50 TO STA. 68+00

NORTH CAROLINA DEPT.
 OF ADMINISTRATION
 DB 1918 PG 636

MATCHLINE SHEET 6
 -YIRPA- STA. 12+00.00

MATCHLINE SHEET 6
 -L- STA. 56+50.00

MATCHLINE SHEET 8
 -L- STA. 70+00.00



REVISIONS

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WILLIAM H. STEPHENS
 DB 2152 PG 883
 DB 1132 PG 481

WILLIAM E. STEPHENS
 DB 662 PG 827

WILLIAM H. STEPHENS
 DB 13-0 PG 258

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

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



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NC FIRM LICENSE No: F-0493

NAD 83/NA 2011

NORTH CAROLINA DEPT.
OF ADMINISTRATION
DB 1918 PG 636

WILLIAM H. STEPHENS
DB 13-0 PG 258

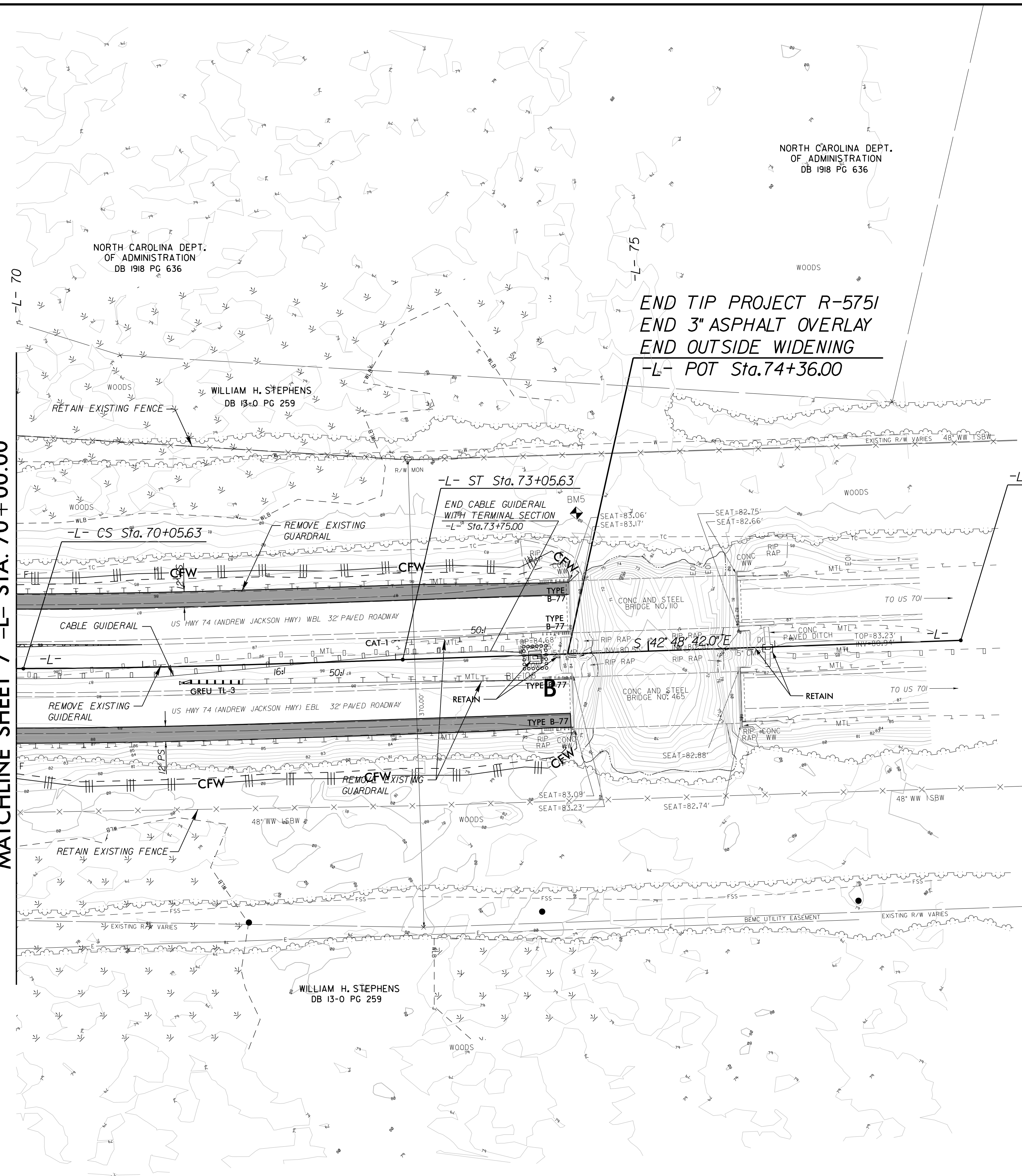
NORTH CAROLINA DEPT.
OF ADMINISTRATION
DB 1918 PG 636

WILLIAM H. STEPHENS
DB 13-0 PG 259

WILLIAM H. STEPHENS
DB 13-0 PG 259

END TIP PROJECT R-5751
END 3" ASPHALT OVERLAY
END OUTSIDE WIDENING
-L- POT Sta.74+36.00

MATCHLINE SHEET 7 -L- STA. 70+00.00



REVISIONS
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

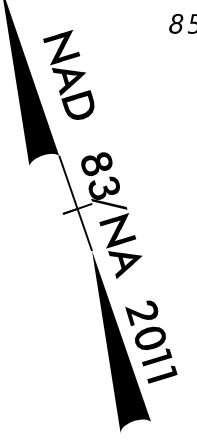
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.

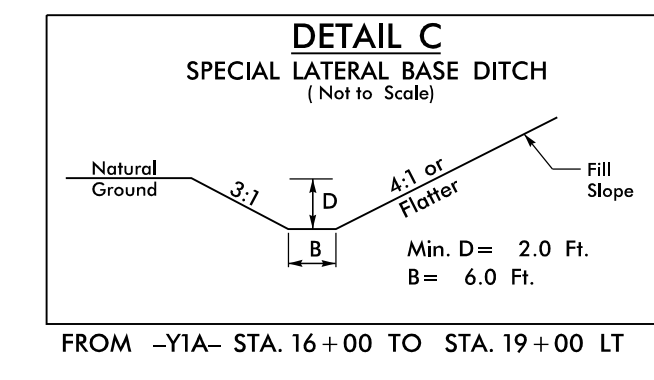
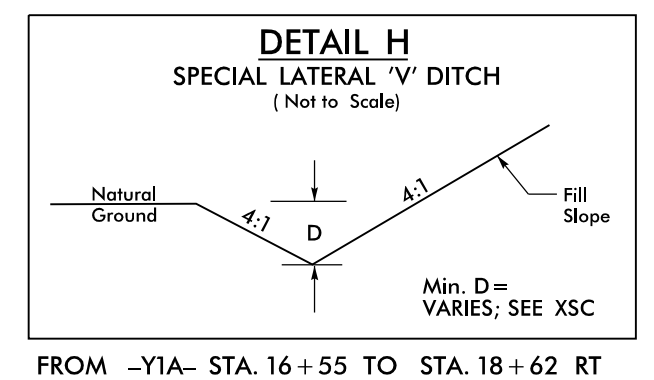
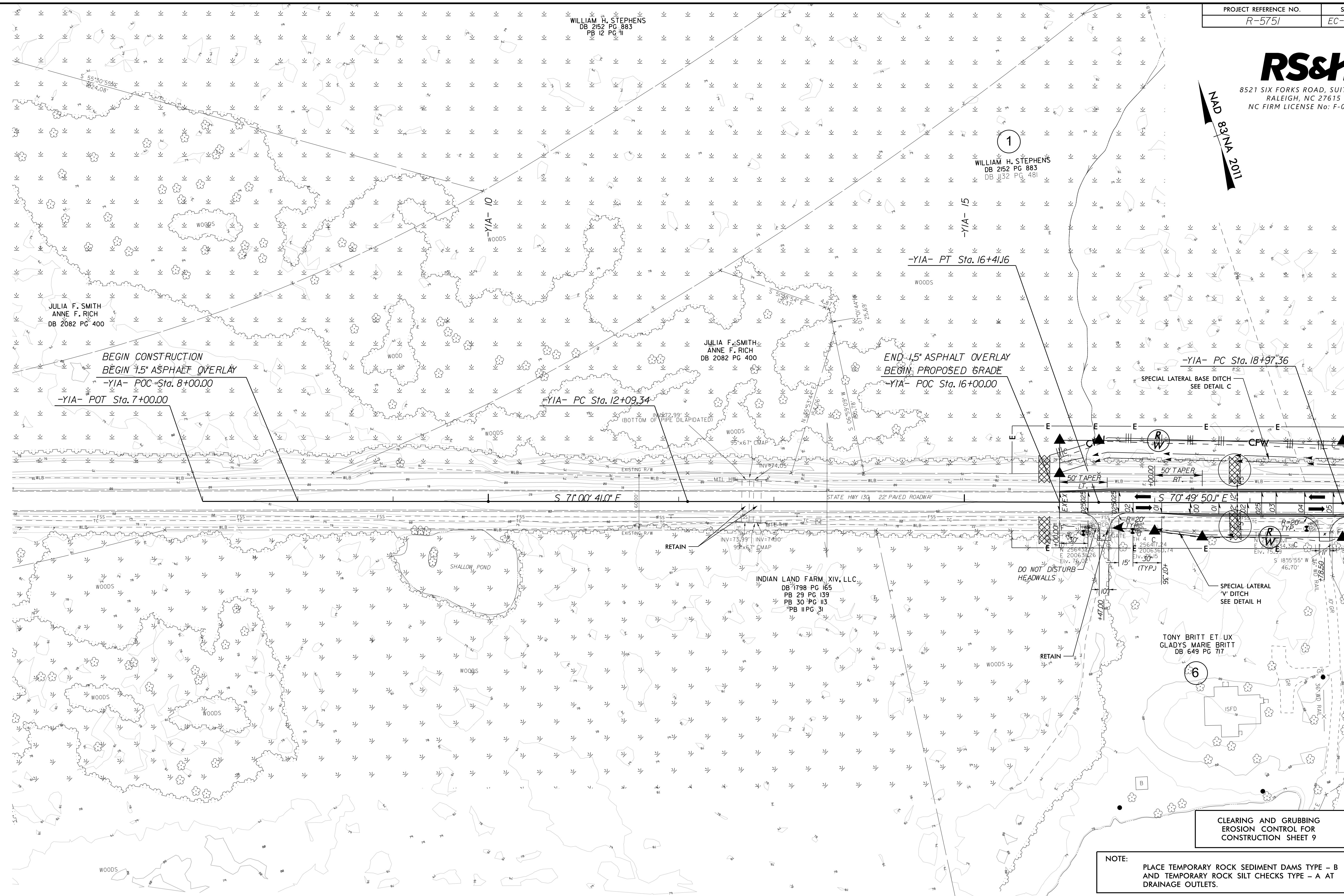
ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.



8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493



MATCHLINE SHEET 10 -YIA- STA. 19+00.00



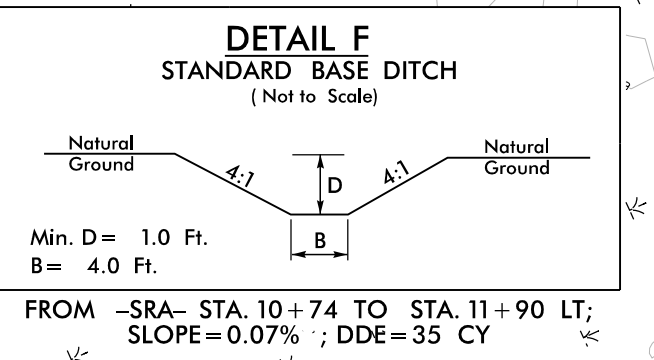
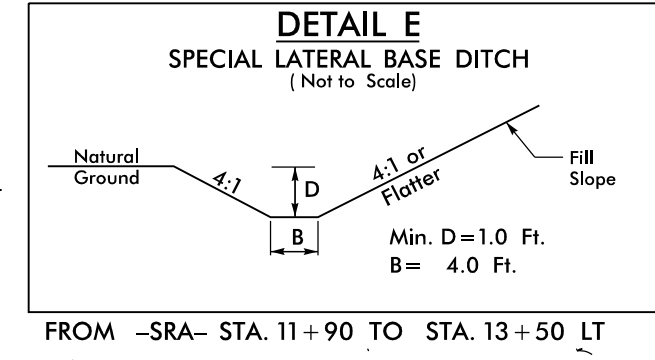
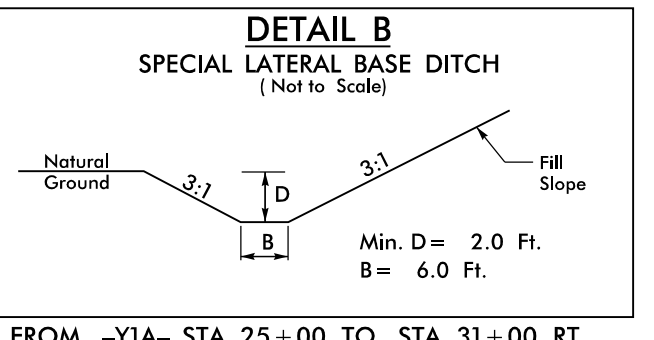
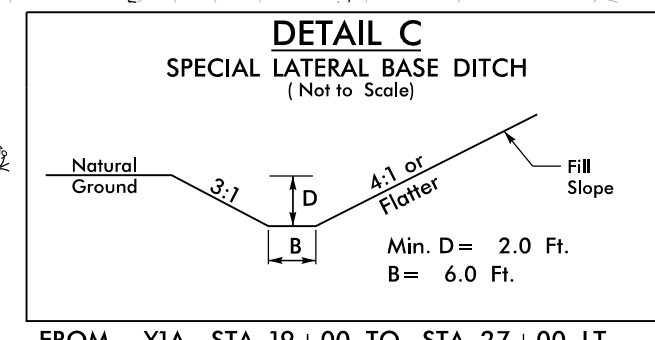
-YIA- CURVE DATA

PI Sta 14+25.25
$\Delta = 0^{\circ}10'51.0''$ (RT)
$D = 0^{\circ}02'30.7''$
$L = 431.82'$
$T = 215.91'$
$R = 136,828.22'$
$SE = NC$

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

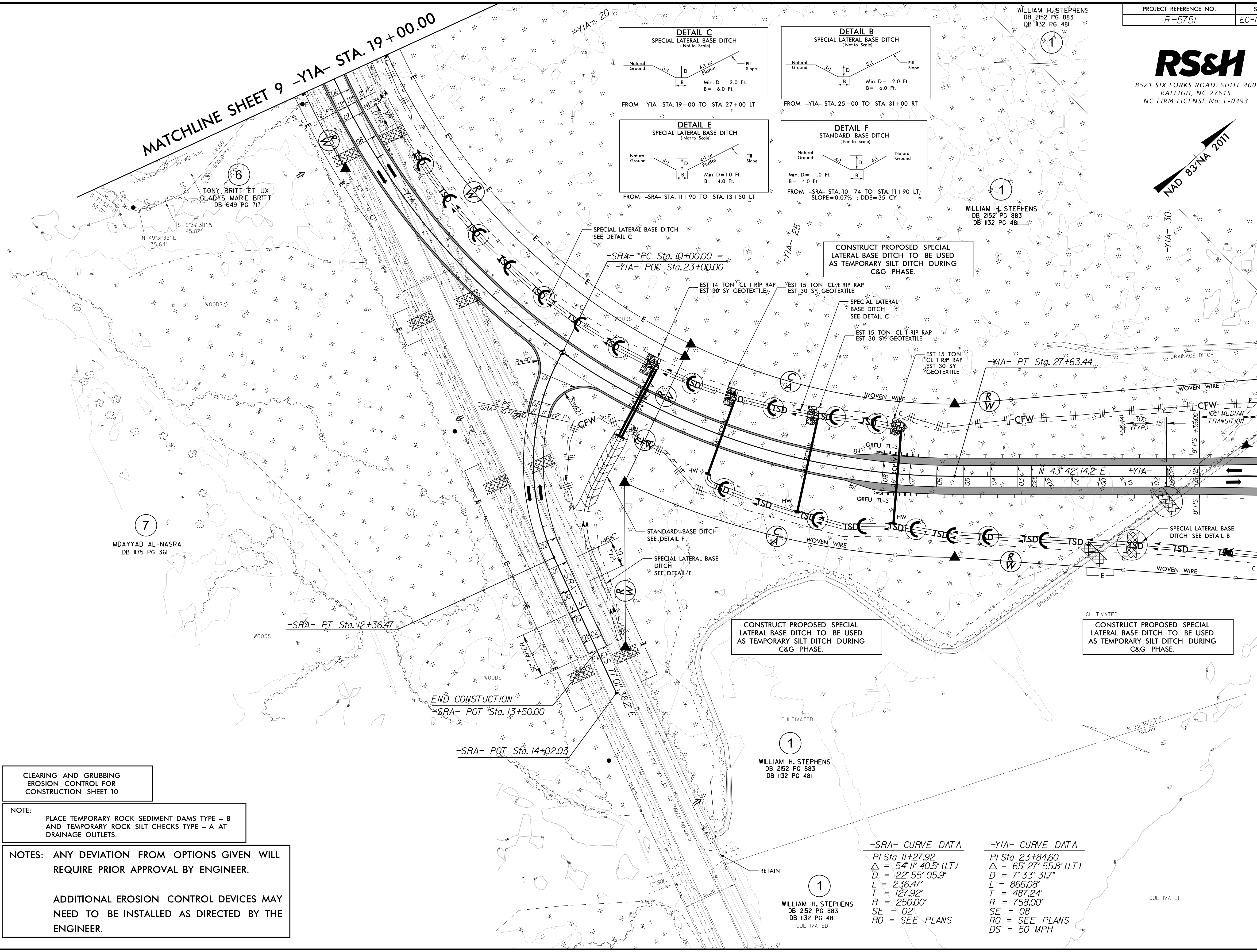
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

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 \$\$\$SUBPROGRAM\$\$\$



MATCHLINE SHEET 9 -YIA- STA. 19+00.00

MATCHLINE SHEET 6 -YIA- STA. 31+00.00



CONSTRUCT PROPOSED SPECIAL LATERAL BASE DITCH TO BE USED AS TEMPORARY SILT DITCH DURING C&G PHASE.

CONSTRUCT PROPOSED SPECIAL LATERAL BASE DITCH TO BE USED AS TEMPORARY SILT DITCH DURING C&G PHASE.

CONSTRUCT PROPOSED SPECIAL LATERAL BASE DITCH TO BE USED AS TEMPORARY SILT DITCH DURING C&G PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

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

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

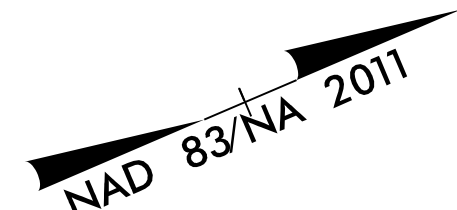
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

-SRA- CURVE DATA
 PI Sta 11+27.92
 $\Delta = 54^\circ 11' 40.5''$ (LT)
 $D = 22' 55' 05.9''$
 $L = 236.47'$
 $T = 127.92'$
 $R = 250.00'$
 $SE = 02$
 $RO = SEE PLANS$

-YIA- CURVE DATA
 PI Sta 23+84.60
 $\Delta = 65^\circ 27' 55.8''$ (LT)
 $D = 7' 33' 31.7''$
 $L = 866.08'$
 $T = 487.24'$
 $R = 758.00'$
 $SE = 08$
 $RO = SEE PLANS$
 $DS = 50$ MPH

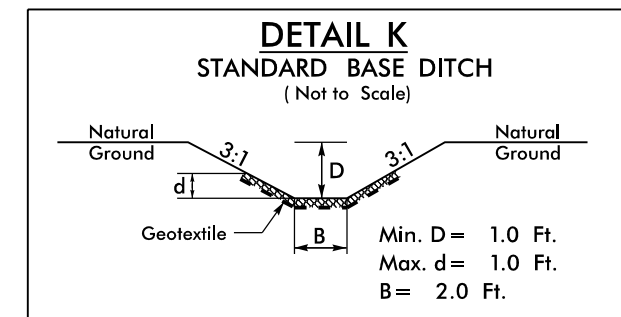
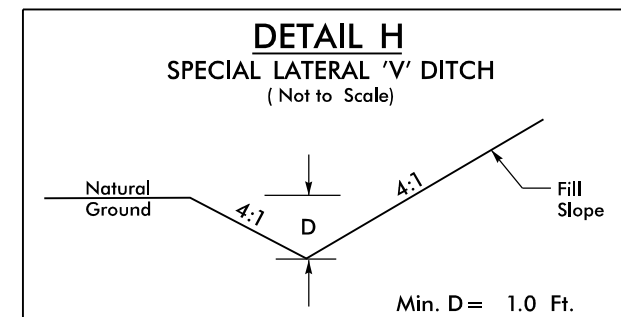
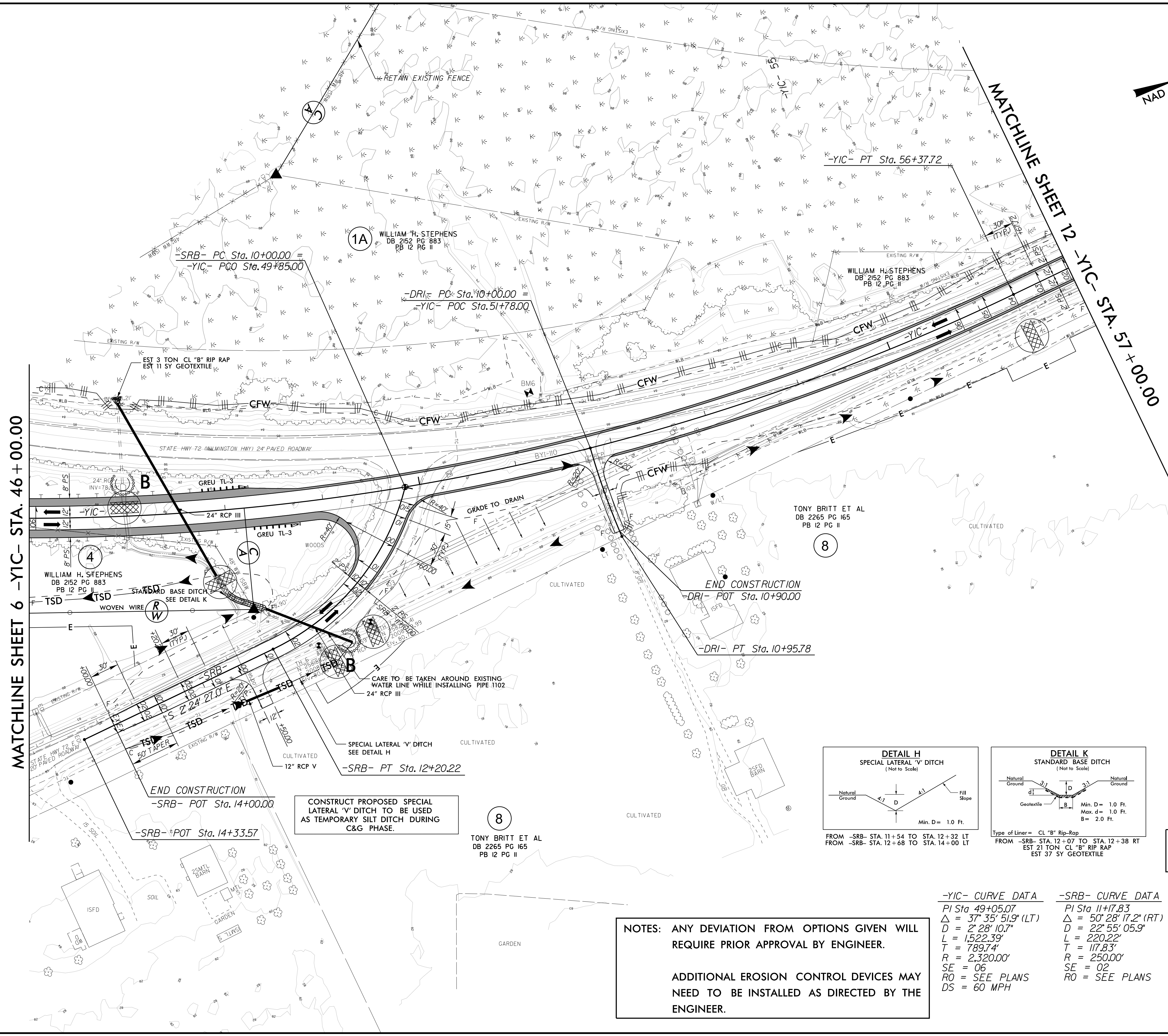
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8/17/99



RS&H
 8521 SIX FORKS ROAD, SUITE 400
 RALEIGH, NC 27615
 NC FIRM LICENSE No: F-0493

8/17/99
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CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 11

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

-YIC- CURVE DATA	-SRB- CURVE DATA	-DRI- CURVE DATA
PI Sta 49+05.07	PI Sta 11+17.83	PI Sta 10+47.96
$\Delta = 37^{\circ} 35' 51.9''$ (LT)	$\Delta = 50^{\circ} 28' 17.2''$ (RT)	$\Delta = 7^{\circ} 19' 02.3''$ (LT)
D = 2' 28' 10.7"	D = 22' 55' 05.9"	D = 7' 38' 22.0"
L = 1,522.39'	L = 220.22'	L = 95.78'
T = 789.74'	T = 117.83'	T = 47.96'
R = 2,320.00'	R = 250.00'	R = 750.00'
SE = 06	SE = 02	SE = NC
RO = SEE PLANS	RO = SEE PLANS	
DS = 60 MPH		

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
 REQUIRE PRIOR APPROVAL BY ENGINEER.
 ADDITIONAL EROSION CONTROL DEVICES MAY
 NEED TO BE INSTALLED AS DIRECTED BY THE
 ENGINEER.

CONSTRUCT PROPOSED SPECIAL
 LATERAL 'V' DITCH TO BE USED
 AS TEMPORARY SILT DITCH DURING
 C&G PHASE.

END CONSTRUCTION
 -SRB- POT Sta. 14+00.00

-SRB- POT Sta. 14+33.57

END CONSTRUCTION
 -DRI- POT Sta. 10+90.00

-DRI- PT Sta. 10+95.78

WILLIAM H. STEPHENS
 DB 2152 PG 883
 PB 12 PG II

WILLIAM H. STEPHENS
 DB 2152 PG 883
 PB 12 PG II

TONY BRITT ET AL
 DB 2265 PG 165
 PB 12 PG II

TONY BRITT ET AL
 DB 2265 PG 165
 PB 12 PG II

WILLIAM H. STEPHENS
 DB 2152 PG 883
 PB 12 PG II

WILLIAM H. STEPHENS
 DB 2152 PG 883
 PB 12 PG II

MATCHLINE SHEET 6 -YIC- STA. 46+00.00

MATCHLINE SHEET 12 -YIC- STA. 57+00.00

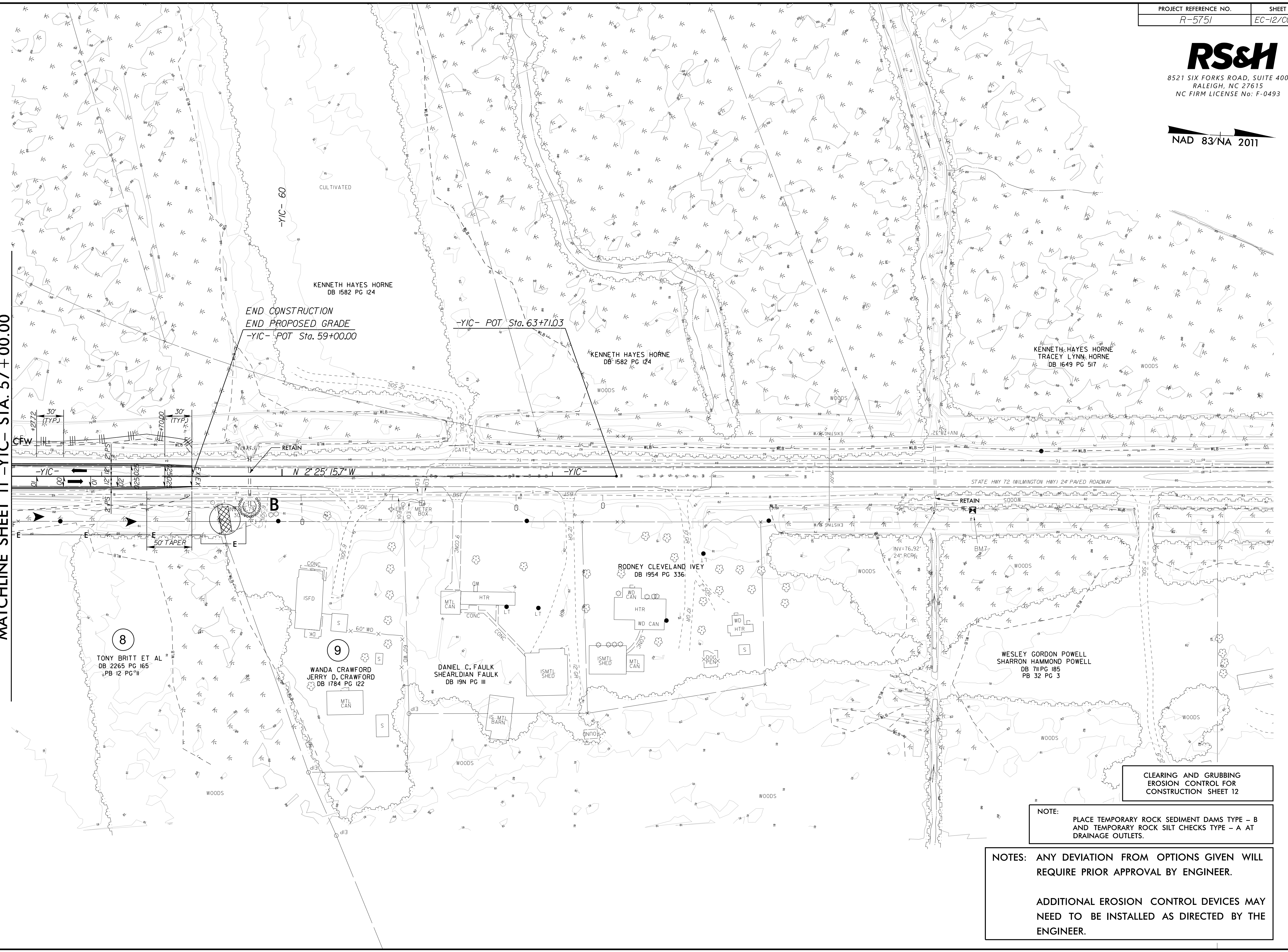
RS&H

8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

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MATCHLINE SHEET 11 -YIC- STA. 57 + 00.00



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

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

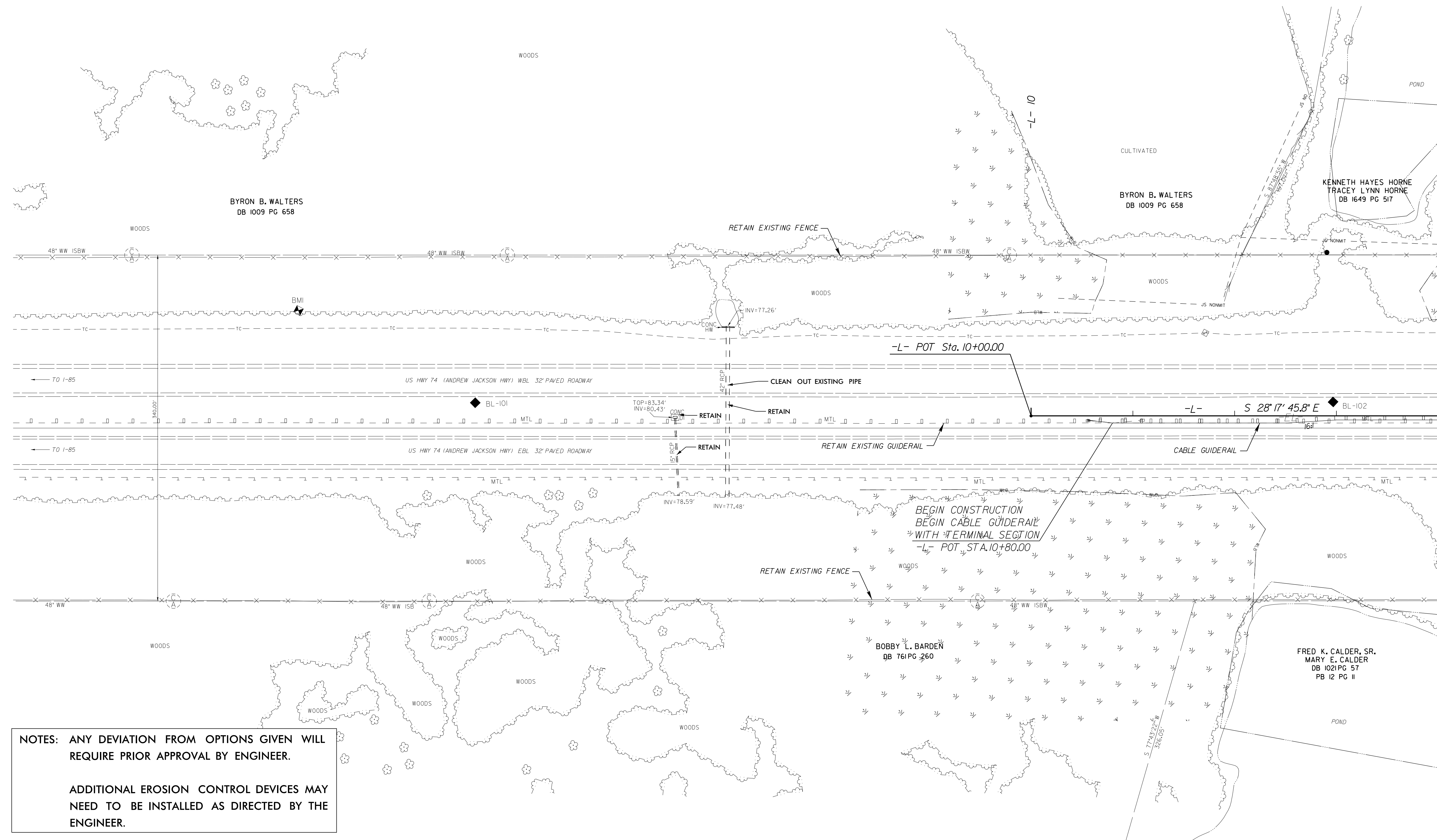
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.

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 RALEIGH, NC 27615
 NC FIRM LICENSE No: F-0493

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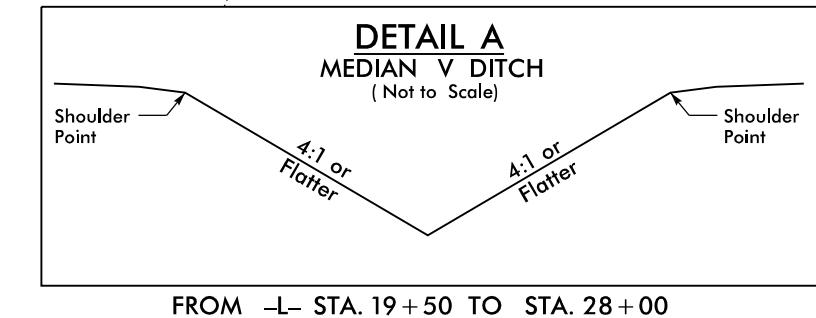
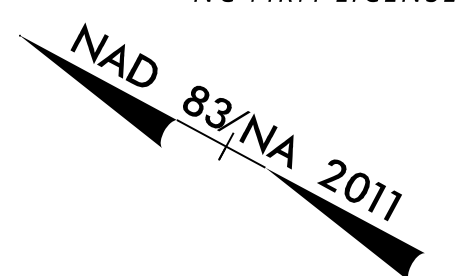
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

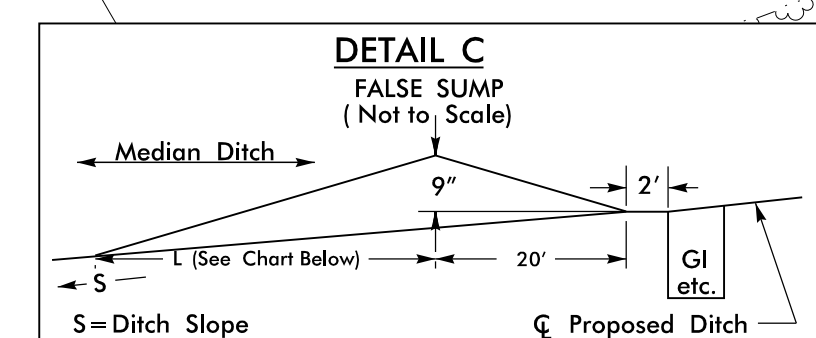
MATCHLINE SHEET 5 -L- STA. 14 + 00.00



8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493



FROM -L- STA. 19+50 TO STA. 28+00

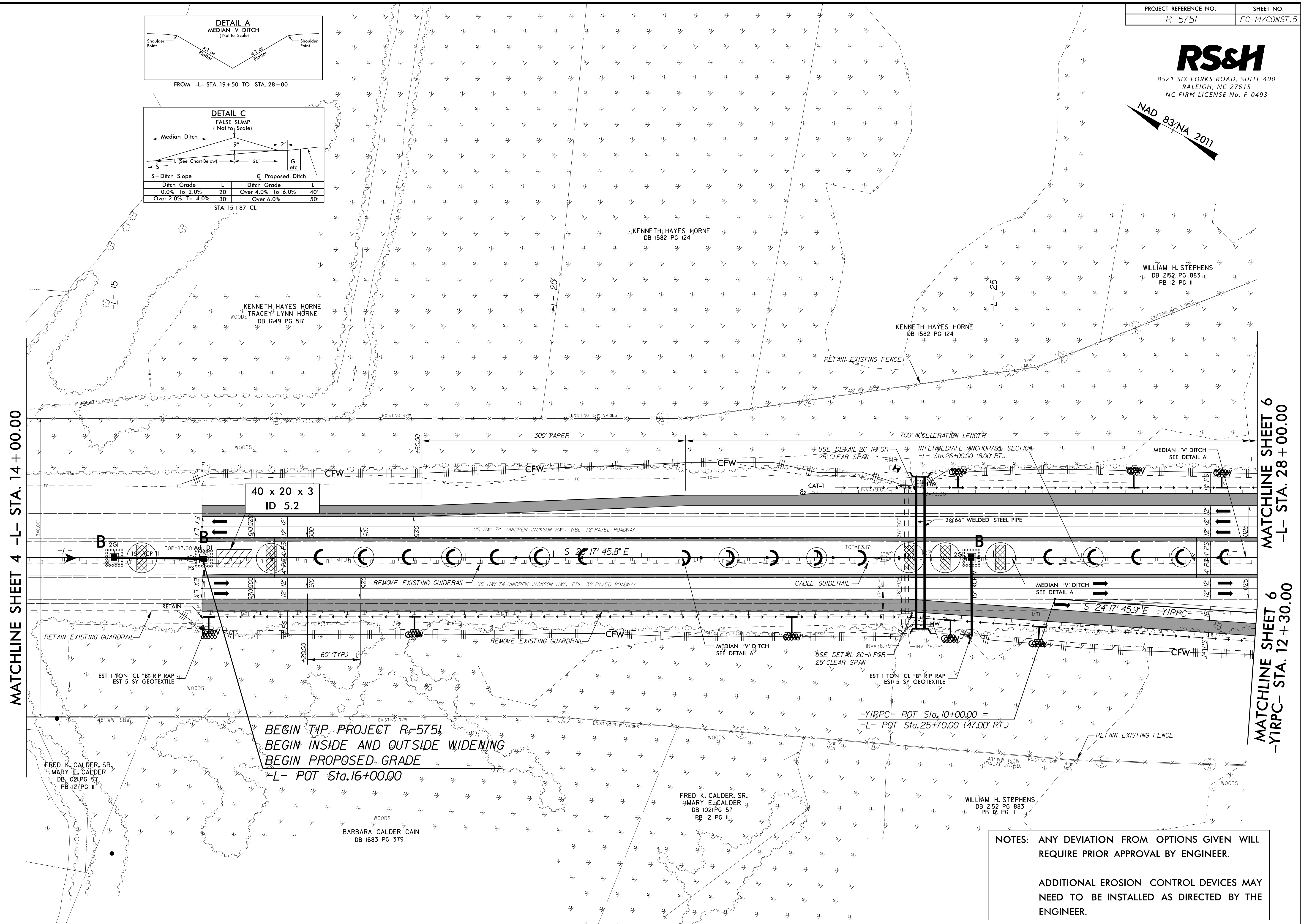


S=Ditch Slope		L Proposed Ditch	
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

STA. 15+87 CL

MATCHLINE SHEET 4 -L- STA. 14+00.00

MATCHLINE SHEET 6
-L- STA. 28+00.00
MATCHLINE SHEET 6
-YIRPC- STA. 12+30.00



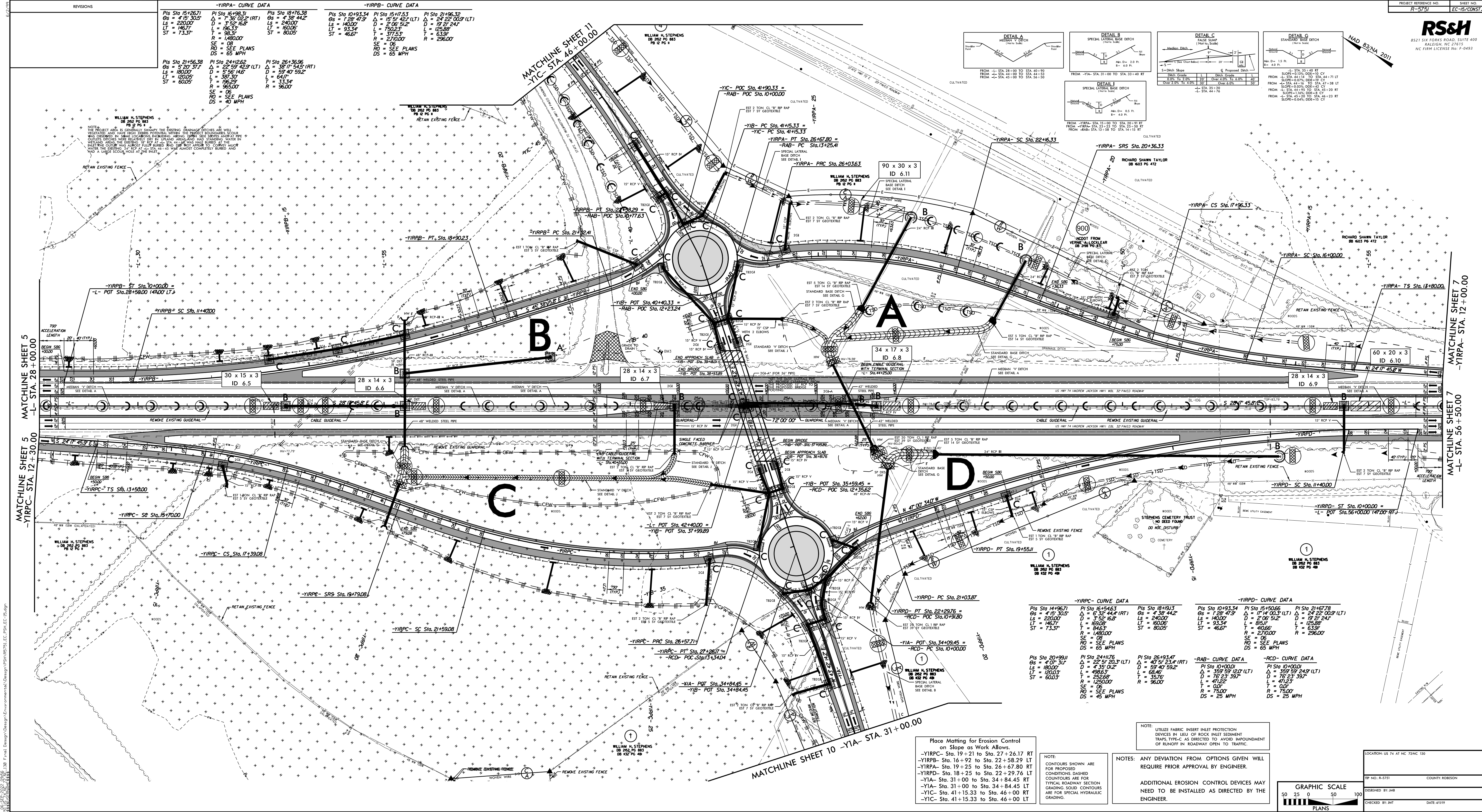
**BEGIN TIP PROJECT R-5751
BEGIN INSIDE AND OUTSIDE WIDENING
BEGIN PROPOSED GRADE
-L- POT Sta.16+00.00**

**-YIRPC- POT Sta.10+00.00 =
-L- POT Sta.25+70.00 (47.00' RT.)**

**NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.**

**ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.**

REVISIONS
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 \$\$\$BUSPERM\$\$\$



-YIRPA- CURVE DATA

PI Sta 15+2671 OS = 4' 35" 30.5" LS = 220.00 LT = 146.77 ST = 73.37	PI Sta 16+98.31 Δ = 7° 50' 12.2" (RT) D = 3° 52' 16.8" L = 286.33 T = 98.37 R = 1480.00 SE = 0.0 RD = SEE PLANS DS = 65 MPH	PI Sta 18+76.38 OS = 4' 38' 44.2" LS = 240.00 LT = 160.06 ST = 80.05	PI Sta 19+33.34 OS = 7' 28' 47.9" LS = 140.00 LT = 93.34 ST = 46.67	PI Sta 15+71.53 OS = 1' 28' 47.9" LS = 140.00 LT = 93.34 ST = 46.67	PI Sta 21+96.32 OS = 4' 38' 44.2" LS = 240.00 LT = 160.06 ST = 80.05
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-YIRPB- CURVE DATA

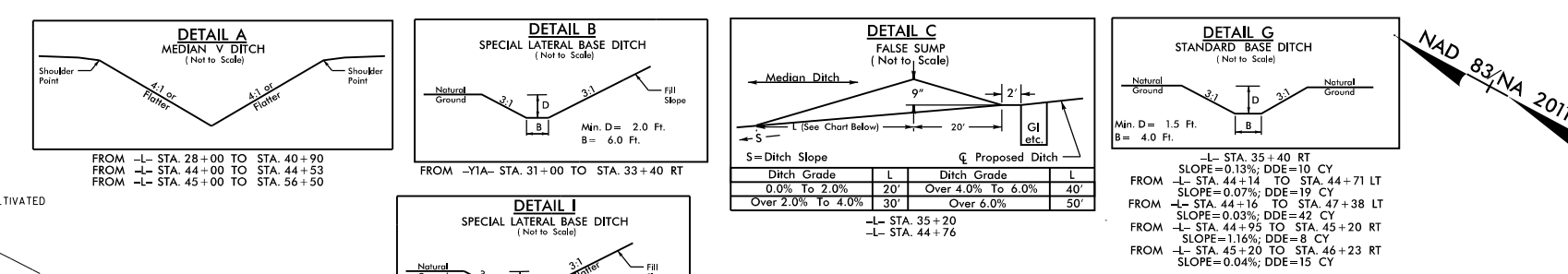
PI Sta 21+56.38 OS = 5' 20' 37.1" LS = 180.00 LT = 62.05 ST = 60.05	PI Sta 24+18.82 Δ = 22° 59' 42.9" (LT) D = 5° 56' 14.6" L = 387.30 T = 136.29 R = 965.00 SE = 0.0 RD = SEE PLANS DS = 40 MPH	PI Sta 26+36.96 Δ = 38° 17' 54.5" (RT) D = 6° 40' 59.2" L = 647.30 T = 333.44 R = 965.00
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-YIRPC- CURVE DATA

PI Sta 14+96.71 OS = 4' 12' 30.5" LS = 220.00 LT = 146.77 ST = 73.37	PI Sta 16+54.63 Δ = 6° 34' 44.4" (RT) D = 3° 52' 16.8" L = 169.08 T = 54.57 R = 1480.00 SE = 0.0 RD = SEE PLANS DS = 65 MPH	PI Sta 18+19.13 OS = 4' 38' 44.2" LS = 240.00 LT = 160.06 ST = 80.05	PI Sta 10+93.34 OS = 7' 28' 47.9" LS = 140.00 LT = 93.34 ST = 46.67	PI Sta 15+06.66 OS = 17° 04.9" (LT) D = 5° 56' 14.6" L = 387.30 T = 136.29 R = 965.00 SE = 0.0 RD = SEE PLANS DS = 65 MPH	PI Sta 21+67.78 OS = 4' 38' 44.2" LS = 240.00 LT = 160.06 ST = 80.05
--	---	--	---	---	--

-YIRPD- CURVE DATA

PI Sta 10+93.34 OS = 7' 28' 47.9" LS = 140.00 LT = 93.34 ST = 46.67	PI Sta 15+06.66 OS = 17° 04.9" (LT) D = 5° 56' 14.6" L = 387.30 T = 136.29 R = 965.00 SE = 0.0 RD = SEE PLANS DS = 65 MPH	PI Sta 10+00.00 OS = 5° 59' 59.2" (LT) D = 76° 23' 39.7" L = 47.23 T = 0.00 R = 75.00 SE = 0.0 RD = SEE PLANS DS = 25 MPH	PI Sta 10+00.00 OS = 5° 59' 59.2" (LT) D = 76° 23' 39.7" L = 47.23 T = 0.00 R = 75.00 SE = 0.0 RD = SEE PLANS DS = 25 MPH
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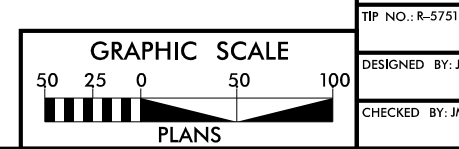


Place Matting for Erosion Control on Slope as Work Allows.
-YIRPC- Sta. 19+21 to Sta. 27+26.17 RT
-YIRPB- Sta. 16+92 to Sta. 22+58.29 LT
-YIRPA- Sta. 19+25 to Sta. 26+67.80 RT
-YIRPD- Sta. 18+25 to Sta. 22+29.76 LT
-YIA- Sta. 31+00 to Sta. 34+84.45 RT
-YIA- Sta. 31+00 to Sta. 34+84.45 LT
-YIC- Sta. 41+15.33 to Sta. 46+00 RT
-YIC- Sta. 41+15.33 to Sta. 46+00 LT

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TRAPS AS DIRECTED TO AVOID IMPROVEMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

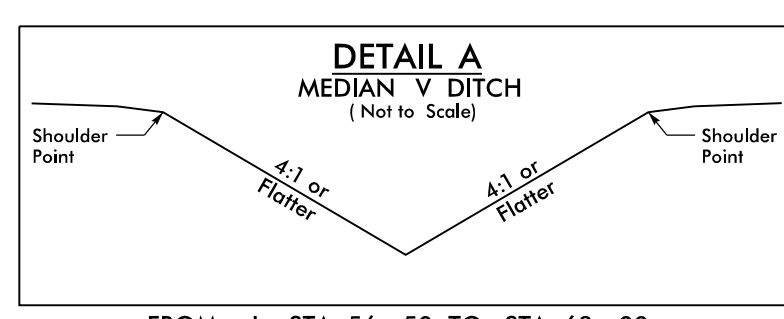
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



NORTH CAROLINA DEPT.
 OF ADMINISTRATION
 DB 1918 PG 636

-L- CURVE DATA

Pls Sta 60+65.59 Δs = 1°54'35.5" Ls = 300.00' LT = 200.01' ST = 100.01'	Pls Sta 65+86.83 Δ = 10°41'45.2" (LT) D = 1°16'23.7" L = 840.05' T = 421.25' R = 4500.00' SE = 05 RO = SEE PLANS	Pls Sta 71+05.64 Δs = 1°54'35.5" Ls = 300.00' LT = 200.01' ST = 100.01'
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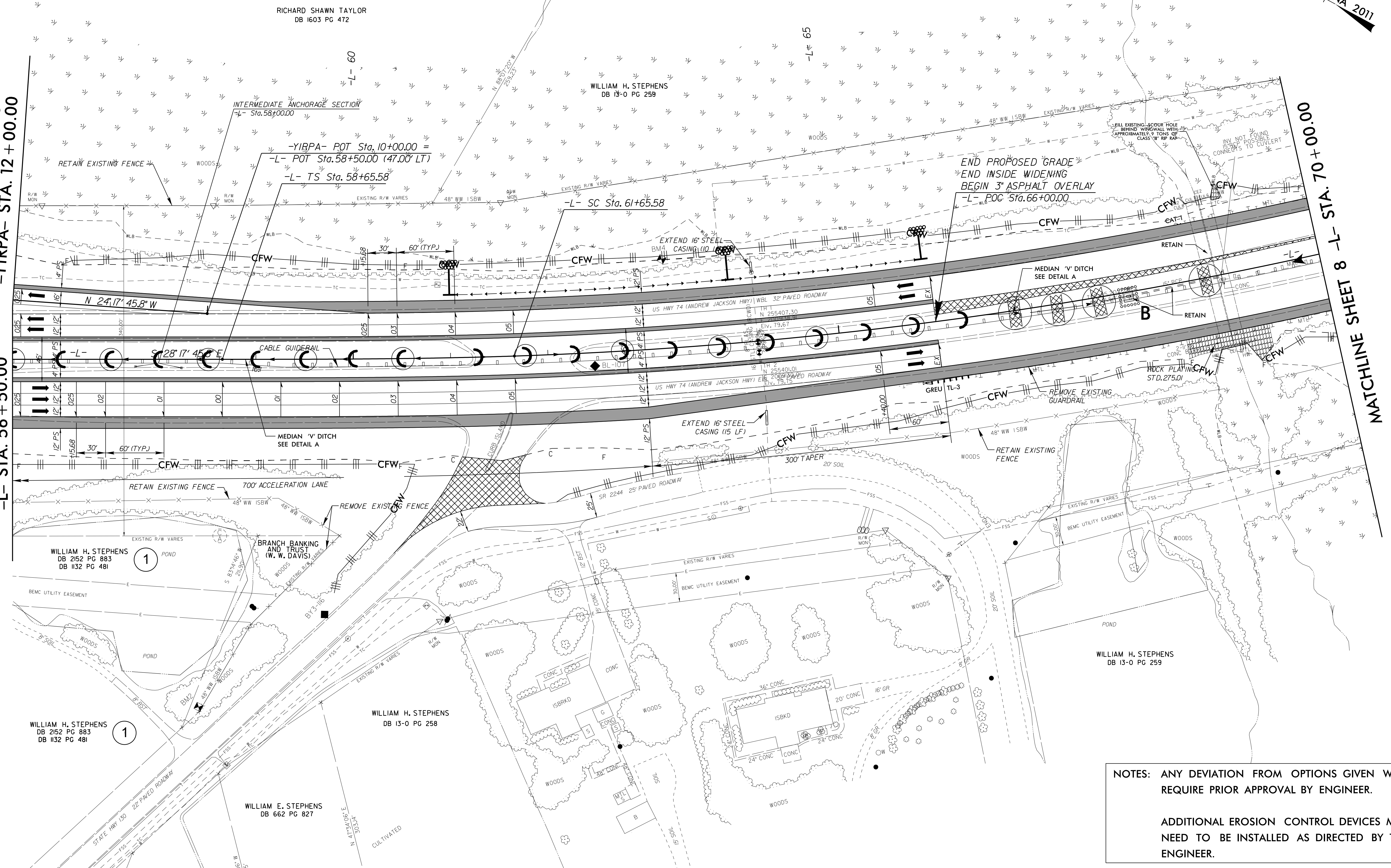
FROM -L- STA. 56+50 TO STA. 63+00
 FROM -L- STA. 66+50 TO STA. 68+00

NAD 83/NA 2011

MATCHLINE SHEET 6
 -YIRPA- STA. 12+00.00

MATCHLINE SHEET 6
 -L- STA. 56+50.00

MATCHLINE SHEET 8
 -L- STA. 70+00.00



NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
 ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

REVISIONS
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NORTH CAROLINA DEPT.
OF ADMINISTRATION
DB 1918 PG 636

WILLIAM H. STEPHENS
DB 13-0 PG 258

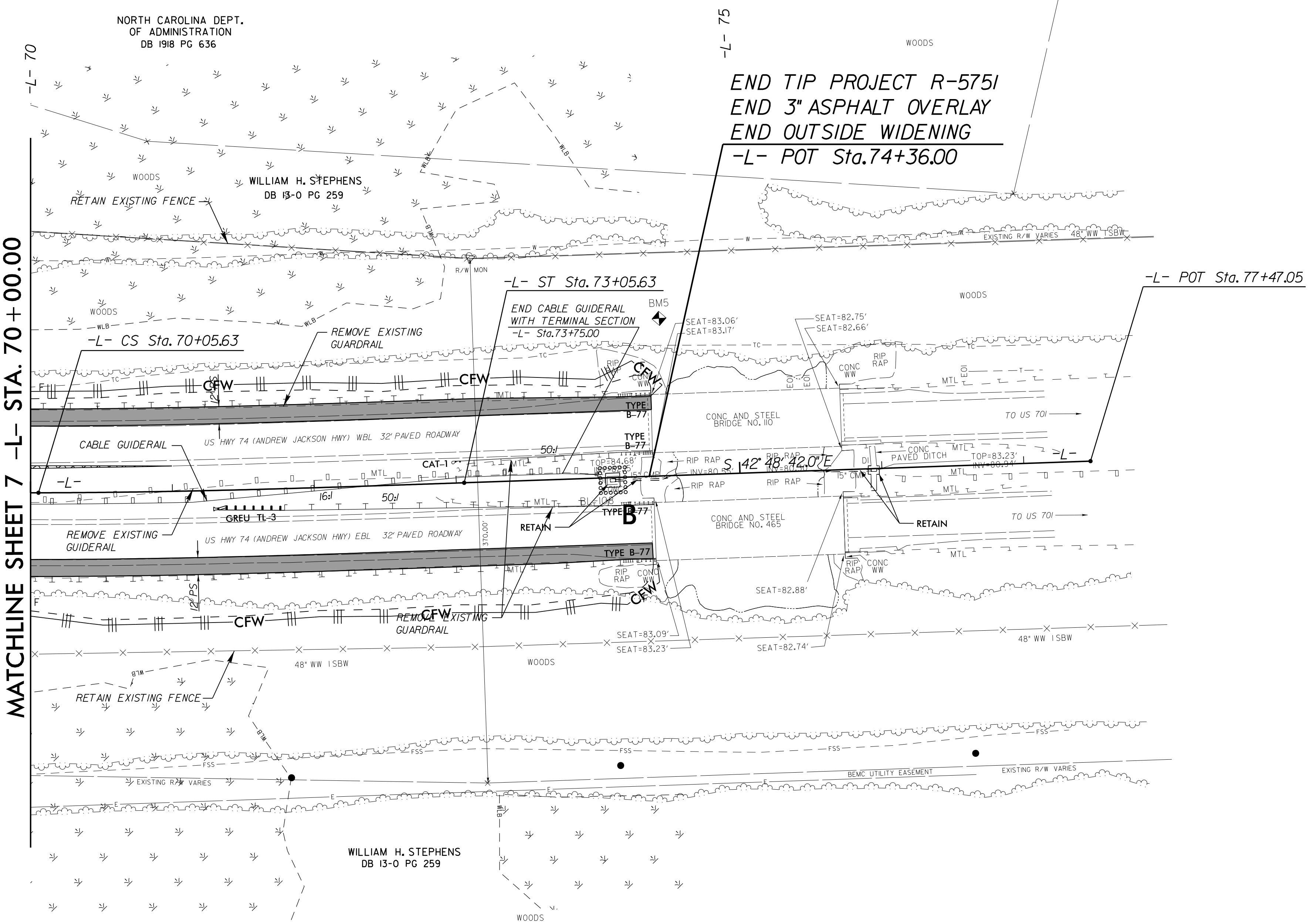
NORTH CAROLINA DEPT.
OF ADMINISTRATION
DB 1918 PG 636

WILLIAM H. STEPHENS
DB 13-0 PG 259

WILLIAM H. STEPHENS
DB 13-0 PG 259

END TIP PROJECT R-5751
END 3" ASPHALT OVERLAY
END OUTSIDE WIDENING
-L- POT Sta.74+36.00

MATCHLINE SHEET 7 -L- STA. 70 + 00.00



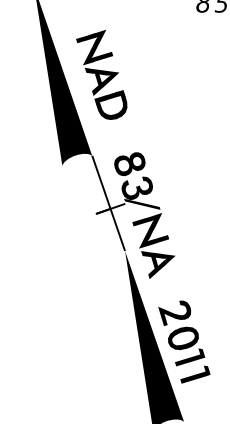
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NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

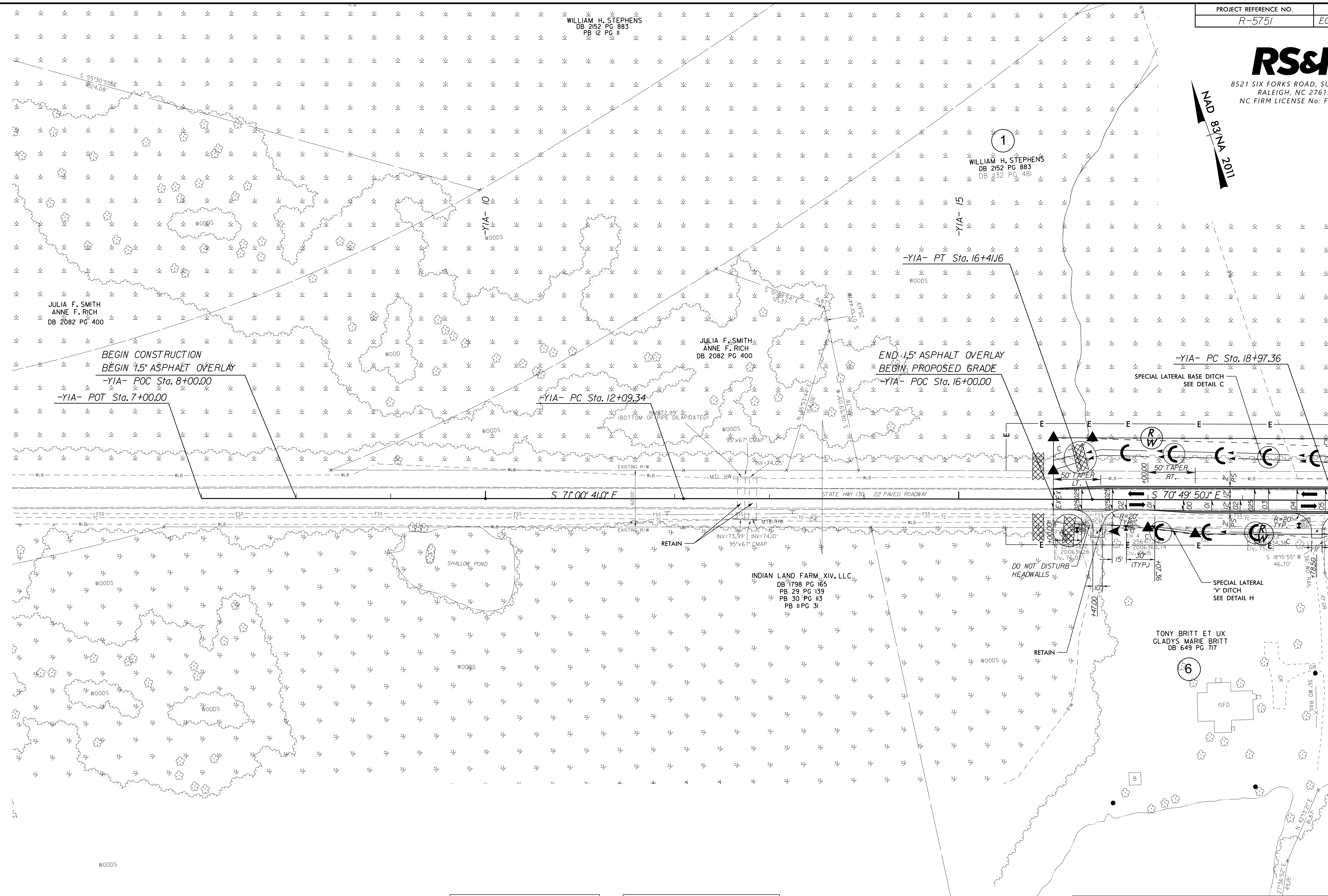
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493



MATCHLINE SHEET 10 -YIA- STA. 19+00.00



BEGIN CONSTRUCTION
BEGIN 1.5' ASPHALT OVERLAY
-YIA- POC Sta. 8+00.00
-YIA- POT Sta. 7+00.00

-YIA- PC Sta. 12+09.34

END 1.5' ASPHALT OVERLAY
BEGIN PROPOSED GRADE
-YIA- POC Sta. 16+00.00

-YIA- PC Sta. 18+97.36

SPECIAL LATERAL BASE DITCH
SEE DETAIL C

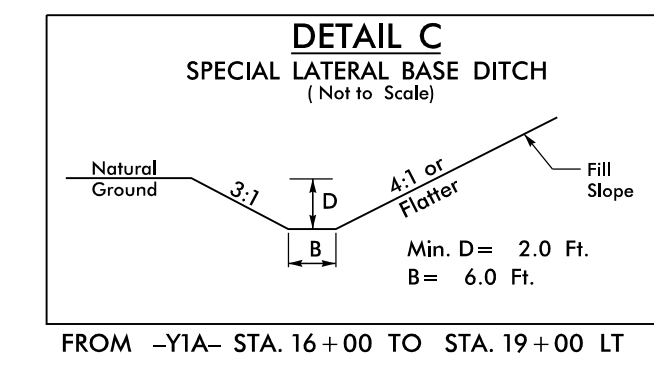
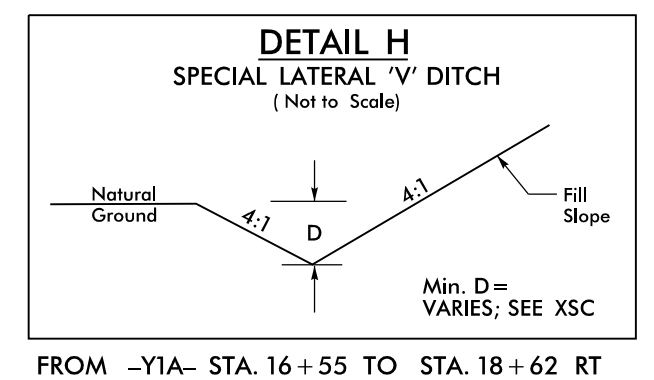
SPECIAL LATERAL 'V' DITCH
SEE DETAIL H

-YIA- CURVE DATA
 PI Sta 14+25.25
 $\Delta = 0^{\circ}10'51.0"$ (RT)
 $D = 0^{\circ}02'30.7"$
 $L = 431.82'$
 $T = 215.91'$
 $R = 136,828.22'$
 $SE = NC$

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

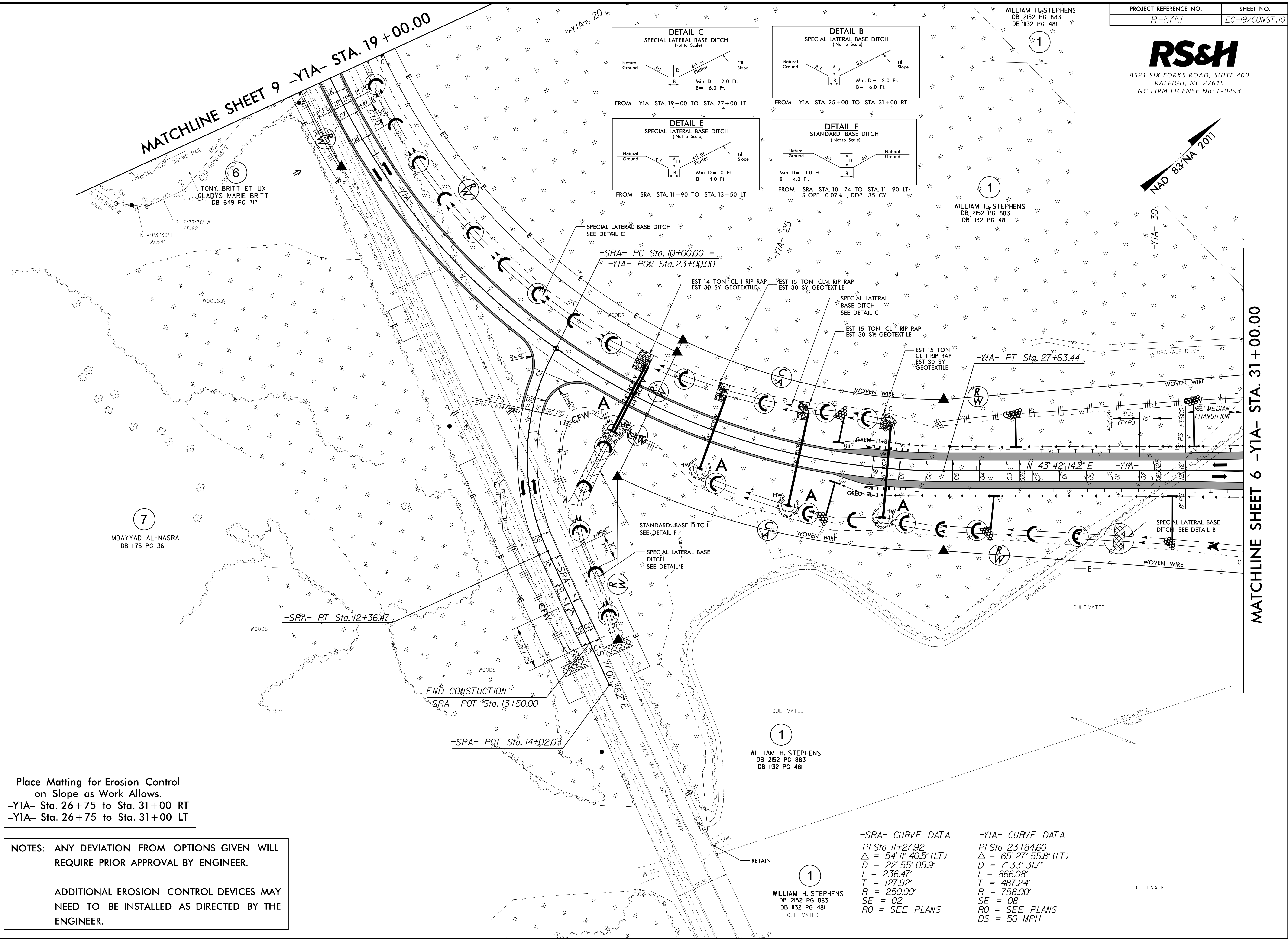
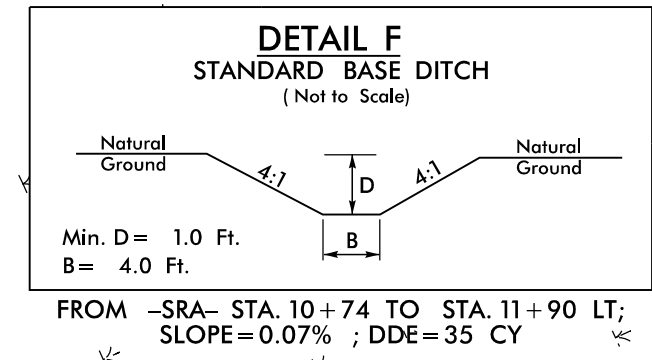
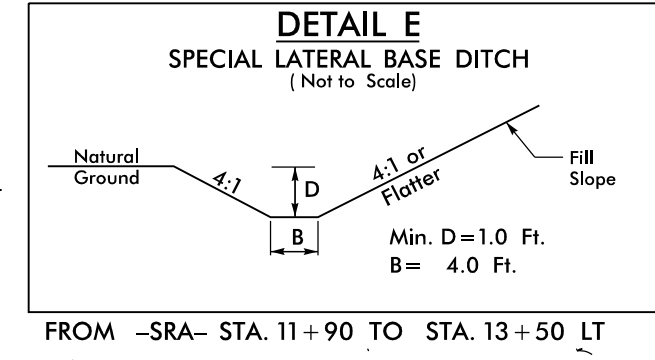
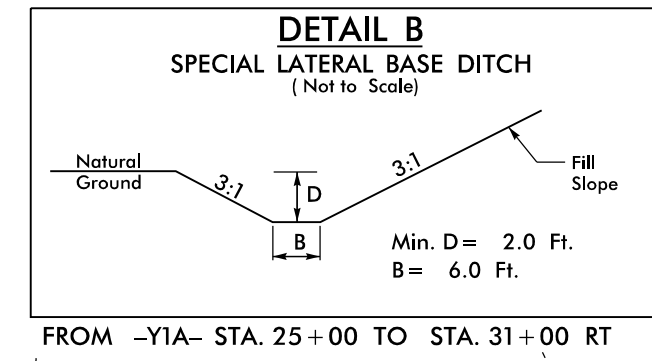
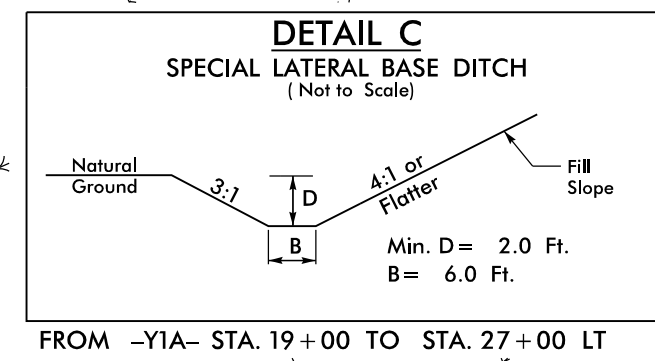
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

EXISTING 2 @ 95"x67" CMAP APPEARED TO BE IN FAIR CONDITION. THE DILAPIDATED BOTTOM OF THE PIPE COULD NOT BE VERIFIED ON EITHER DATE OF SURVEY DUE TO SIGNIFICANT DEPTH OF WATER IN THE PIPES.



REVISIONS
 06-SEP-2022 09:59
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 \$\$\$SUBPNAME\$\$\$

8/17/99



Place Matting for Erosion Control
on Slope as Work Allows.
-Y1A- Sta. 26+75 to Sta. 31+00 RT
-Y1A- Sta. 26+75 to Sta. 31+00 LT

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.

-SRA- CURVE DATA	-Y1A- CURVE DATA
PI Sta 11+27.92	PI Sta 23+84.60
$\Delta = 54^\circ 11' 40.5''$ (LT)	$\Delta = 65^\circ 27' 55.8''$ (LT)
$D = 22^\circ 55' 05.9''$	$D = 7^\circ 33' 31.7''$
$L = 236.47'$	$L = 866.08'$
$T = 127.92'$	$T = 487.24'$
$R = 250.00'$	$R = 758.00'$
$SE = 02$	$SE = 08$
$RO = SEE PLANS$	$RO = SEE PLANS$
	$DS = 50$ MPH

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 06-SEP-2022 10:01 AM
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MATCHLINE SHEET 6 -Y1A- STA. 31+00.00

MATCHLINE SHEET 9 -Y1A- STA. 19+00.00

7
MDAYYAD AL-NASRA
DB 1175 PG 361

6
TONY BRITT ET UX
GLADYS MARIE BRITT
DB 649 PG 717

1
WILLIAM H. STEPHENS
DB 2152 PG 883
DB 1132 PG 481

1
WILLIAM H. STEPHENS
DB 2152 PG 883
DB 1132 PG 481

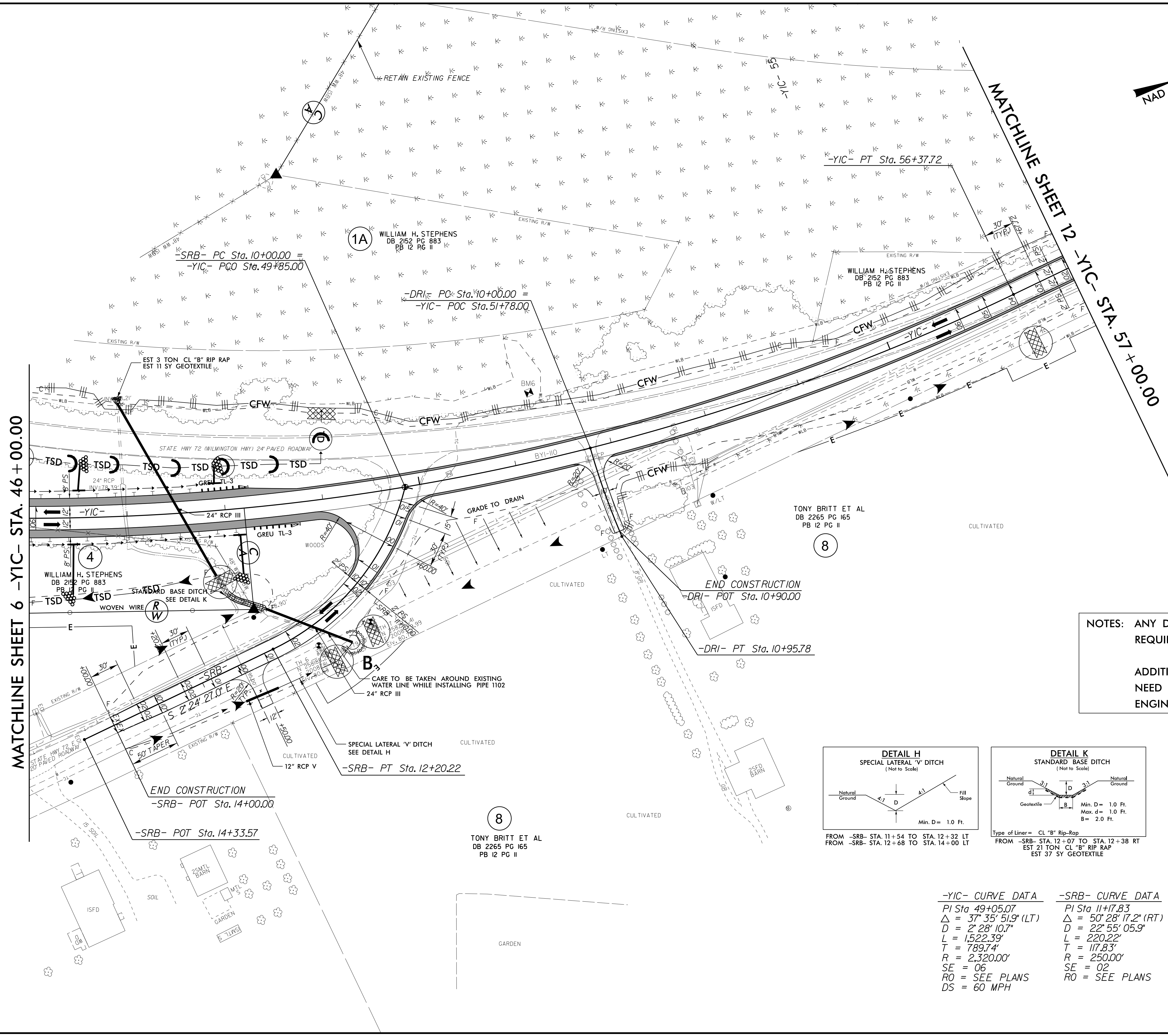
1
WILLIAM H. STEPHENS
DB 2152 PG 883
DB 1132 PG 481



8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493



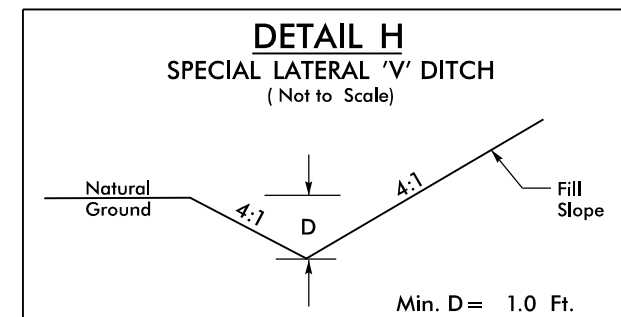
8/17/99
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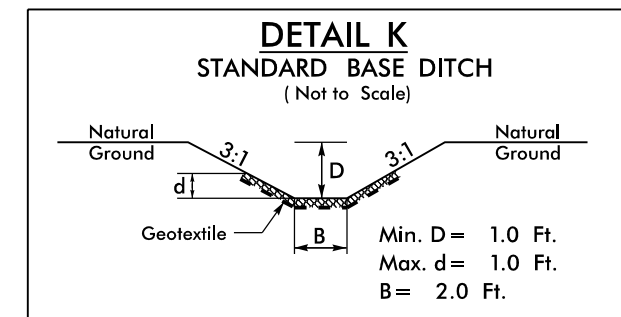
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

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Place Matting for Erosion Control on Slope as Work Allows.
 -YIC- Sta. 46+00 to Sta. 48+25 RT
 -YIC- Sta. 46+00 to Sta. 47+46 LT



FROM -SRB- STA. 11+54 TO STA. 12+32 LT
 FROM -SRB- STA. 12+68 TO STA. 14+00 LT



Type of Liner = CL "B" Rip-Rap
 FROM -SRB- STA. 12+07 TO STA. 12+38 RT
 EST 21 TON CL "B" RIP RAP
 EST 37 SY GEOTEXTILE

-YIC- CURVE DATA
 PI Sta 49+05.07
 $\Delta = 37^{\circ} 35' 51.9''$ (LT)
 D = 2' 28' 10.7"
 L = 1,522.39'
 T = 789.74'
 R = 2,320.00'
 SE = 06
 RO = SEE PLANS
 DS = 60 MPH

-SRB- CURVE DATA
 PI Sta 11+17.83
 $\Delta = 50^{\circ} 28' 17.2''$ (RT)
 D = 22' 55' 05.9"
 L = 220.22'
 T = 117.83'
 R = 250.00'
 SE = 02
 RO = SEE PLANS

-DRI- CURVE DATA
 PI Sta 10+47.96
 $\Delta = 7^{\circ} 19' 02.3''$ (LT)
 D = 7' 38' 22.0"
 L = 95.78'
 T = 47.96'
 R = 750.00'
 SE = NC

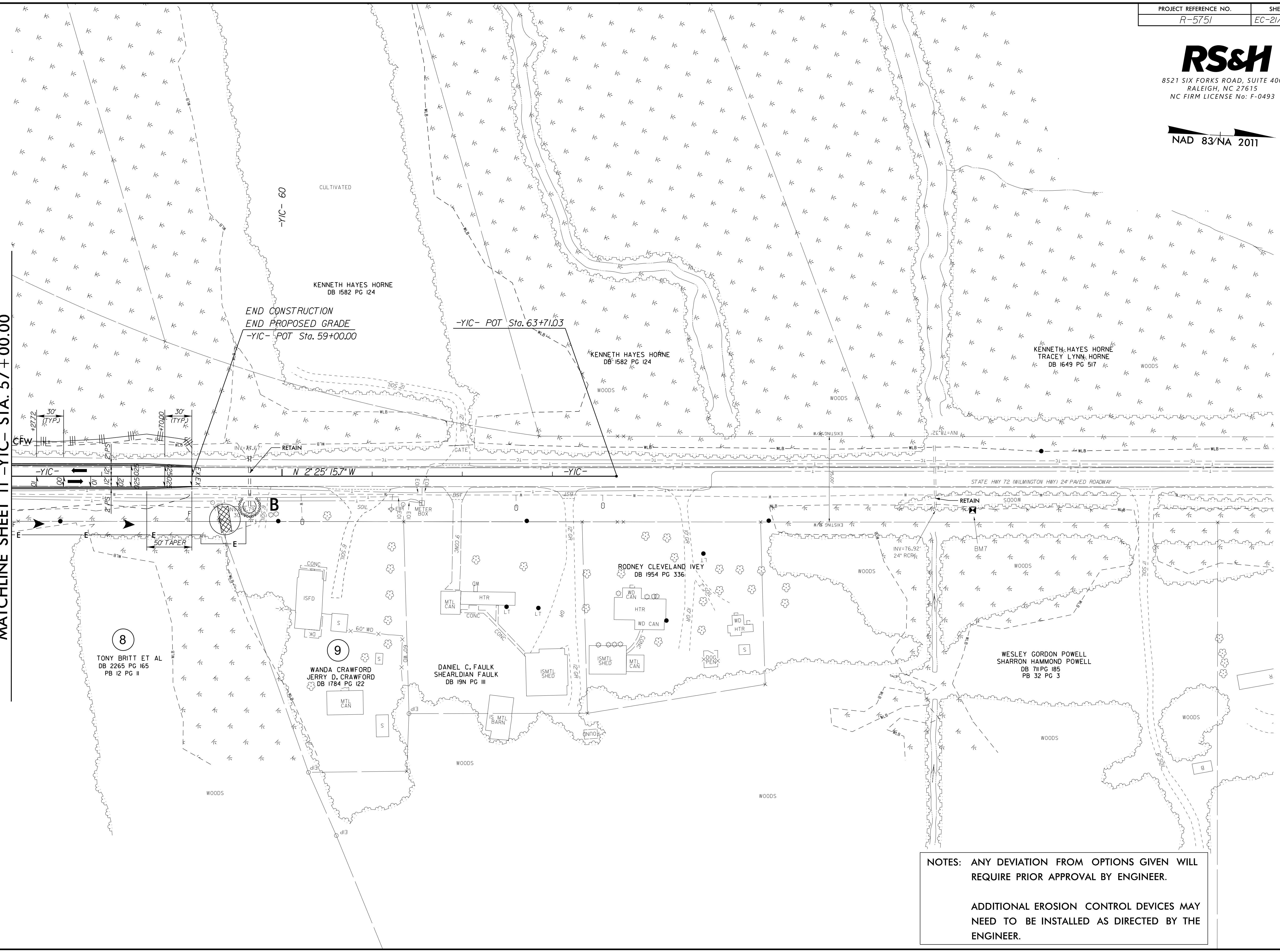


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NC FIRM LICENSE No: F-0493



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 \$\$\$BUSPERM\$\$\$

MATCHLINE SHEET 11 -YIC- STA. 57 + 00.00



NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.