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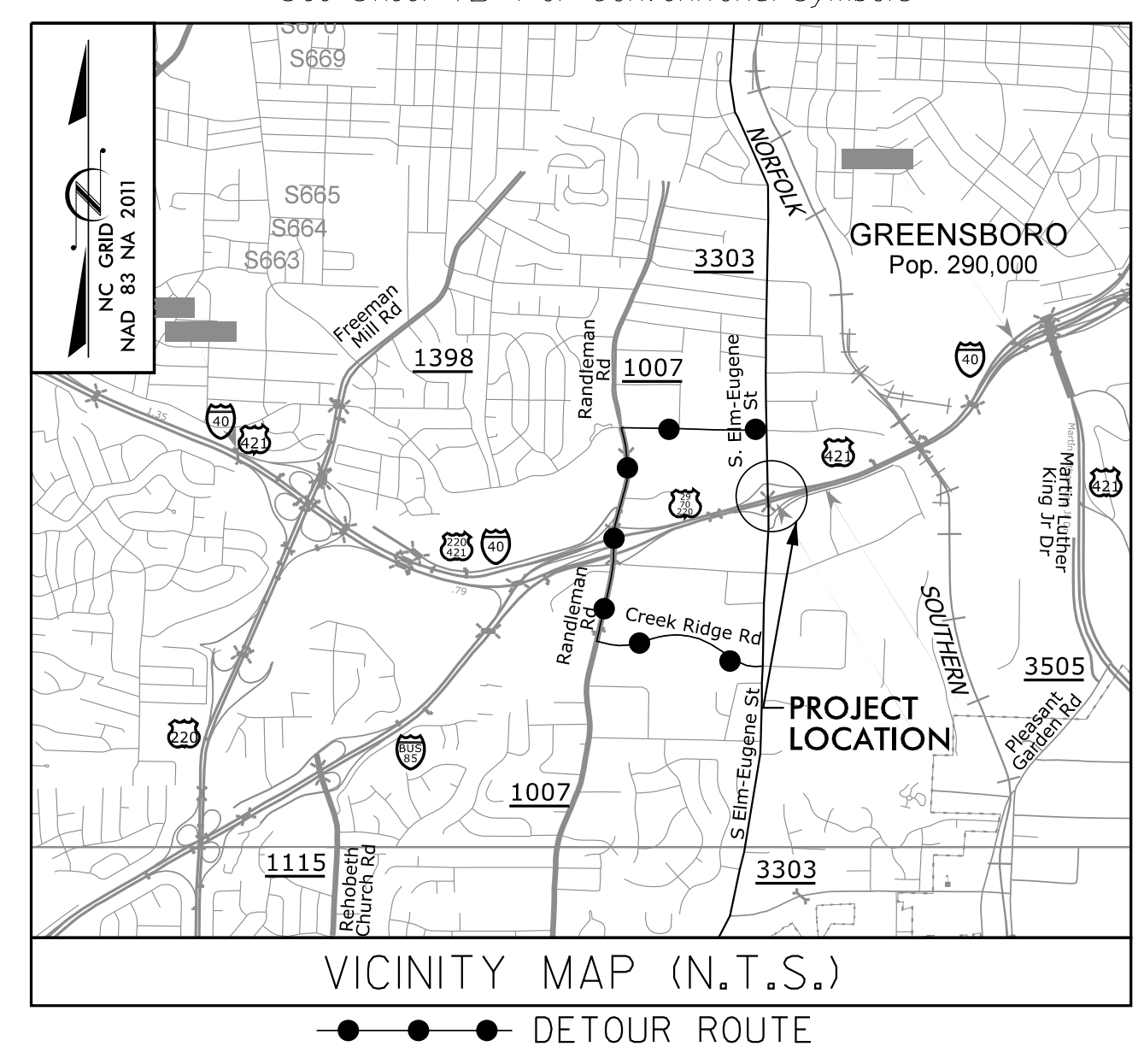
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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5964	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45914.1.1	NA	PE	
45914.2.1	NA	RW & UTILITIES	
45914.3.2	0040109	CONST.	

**TIP PROJECT: I-5964**

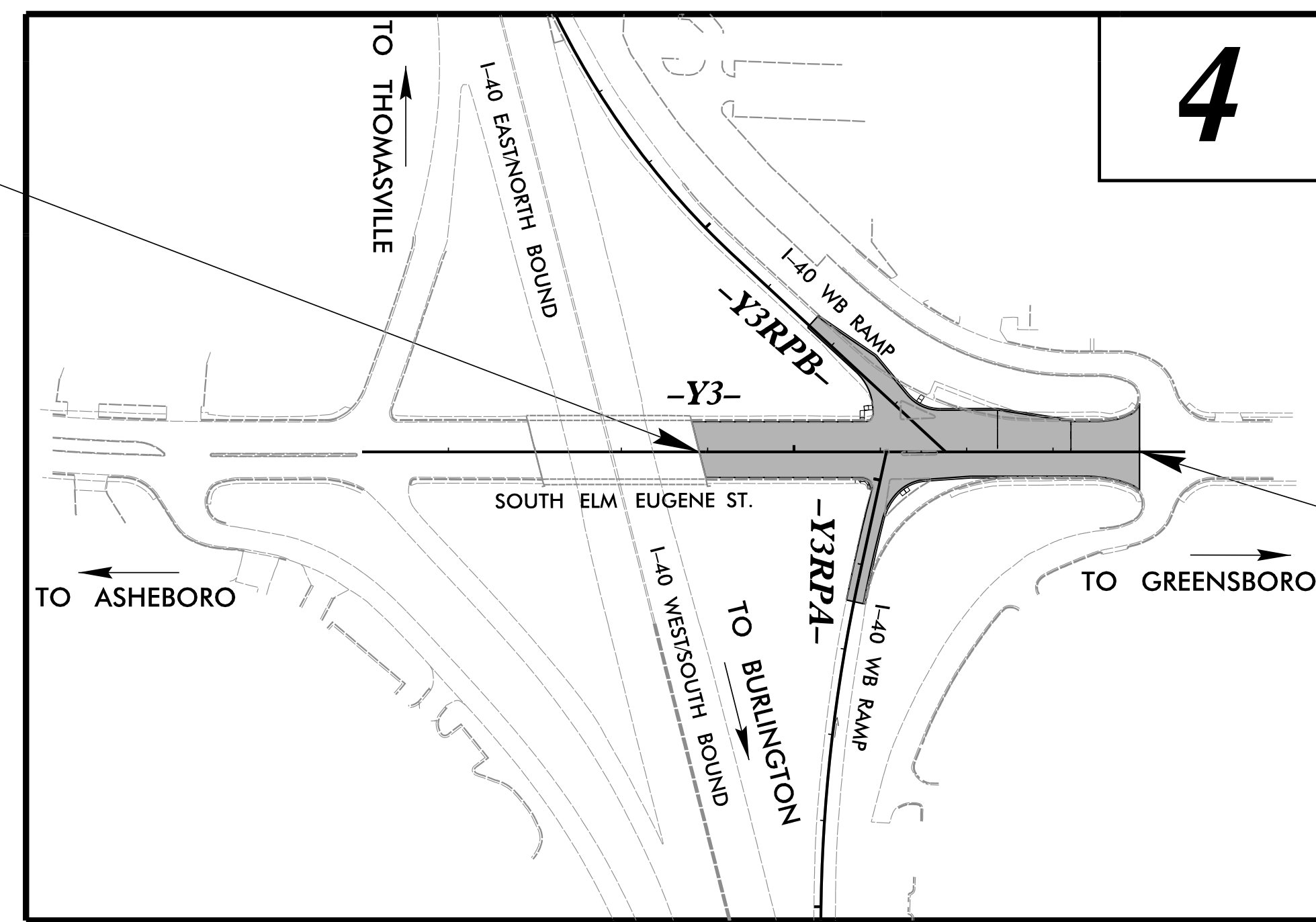
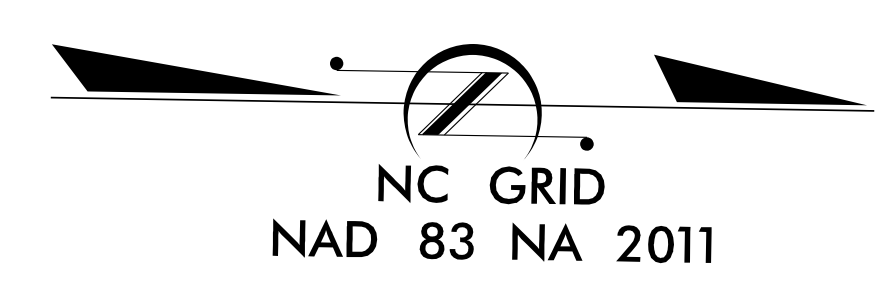
See Sheet 1A For Index of Sheets  
See Sheet 1B For Conventional Symbols



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

**LOCATION: I-40 / I-85 BUS. SOUTH ELM-EUGENE INTERCHANGE IMPROVEMENTS**  
**TYPE OF WORK: GRADING, DRAINAGE, AND PAVING**

**BEGIN TIP PROJECT I-5964**  
-Y3- STA. 13+90.40



**END TIP PROJECT I-5964**  
-Y3- STA. 19+00.00

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSO
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	W
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	W-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.**

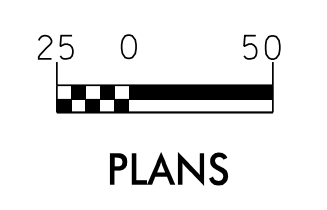
7/9/2021

**V&M**  
**Vaughn & Melton**  
Consulting Engineers  
Asheville, North Carolina  
828-293-2796

□ Boone, NC 828-355-9933	□ Tri-Cities, TN 423-467-8401
□ Knoxville, TN 865-546-5800	□ Spartanburg, SC 864-574-4775
□ Charleston, SC 843-974-5650	□ Middleboro, KY 606-248-6600
□ Raleigh, NC 919-977-9455	□ Charlotte, NC 704-357-0488
□ Atlanta, GA 770-627-3590	

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**GRAPHIC SCALE**



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

Prepared in the Office of:  
**Vaughn & Melton**  
Consulting Engineers  
1318-F Patton Avenue  
Asheville, NC 28806  
**2018 STANDARD SPECIFICATIONS**

Designed by:  
**Shams Al-Amin** **4032**  
NAME LEVEL III CERTIFICATION NO.

Reviewed in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611  
**2018 STANDARD SPECIFICATIONS**

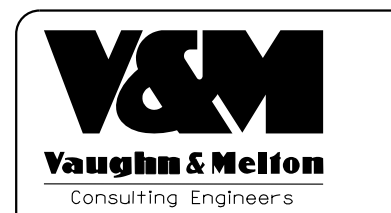
Reviewed by:  
**Aaron A. Harper, PE**

Roadway Standard Drawings

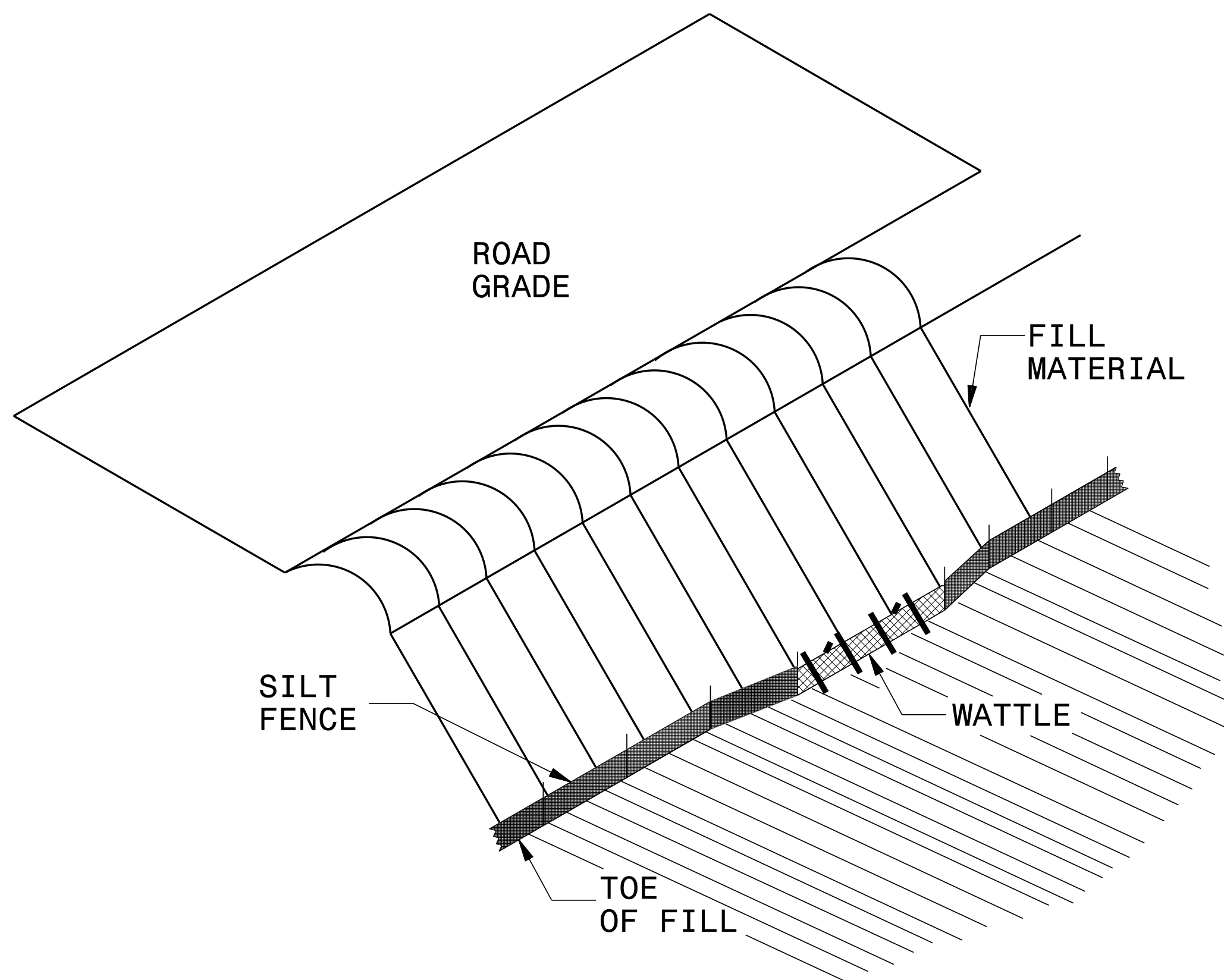
The following roadway english standards as appear in "Roadway Standard Drawings" - Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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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PROJECT REFERENCE NO. 1-5964	SHEET NO. EC-2
	
Asheville, North Carolina 828-253-2796	
☐ Boone, NC 828-355-9933 ☐ Tri-Cities, TN 423-467-8420 ☐ Knoxville, TN 865-546-5800 ☐ Spartanburg, SC 864-574-4775 ☐ Charleston, SC 843-374-5550 ☐ Middlesboro, KY 606-248-6600	☐ Raleigh, NC 919-977-9455 ☐ Charlotte, NC 704-357-0488 ☐ Atlanta, GA 770-627-3590 Copyright © 2006 Vaughan & Melton, Inc. All Rights Reserved.

# SILT FENCE WATTLE BREAK DETAIL

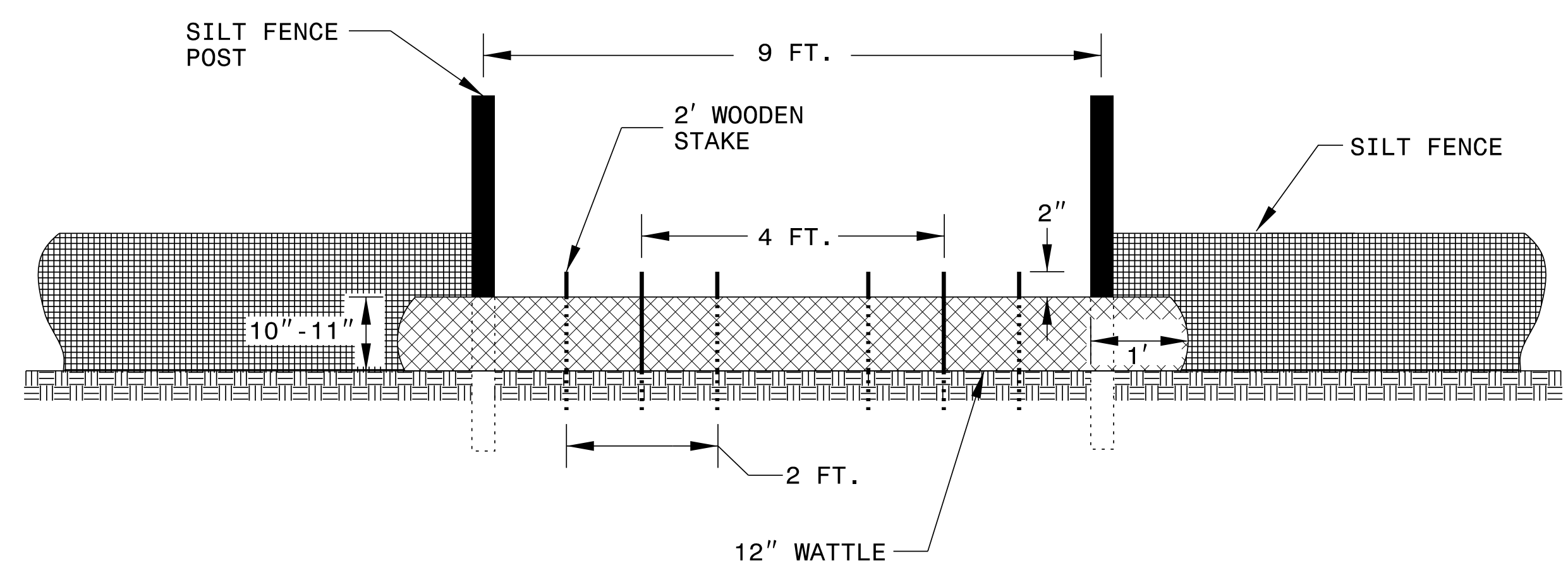
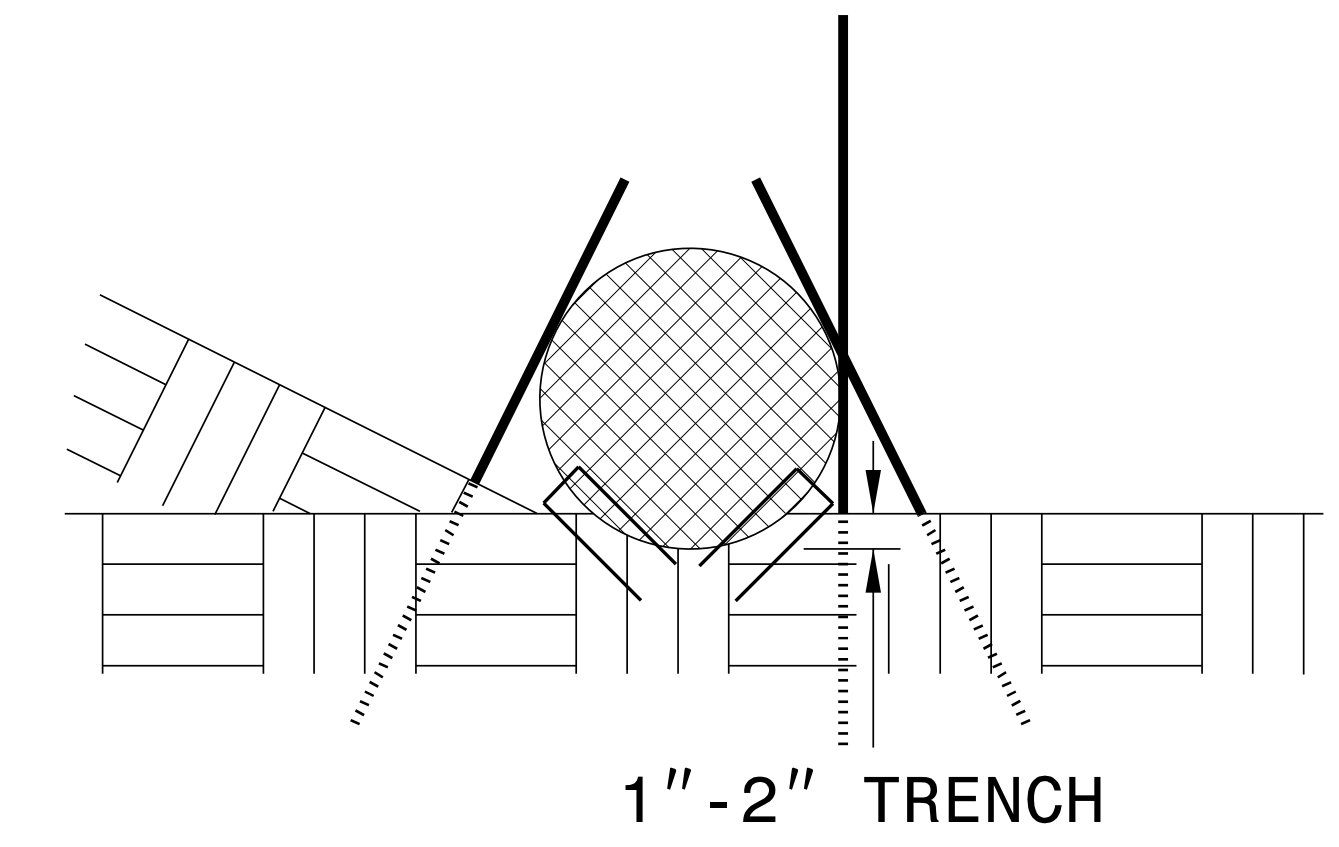


**ISOMETRIC VIEW**

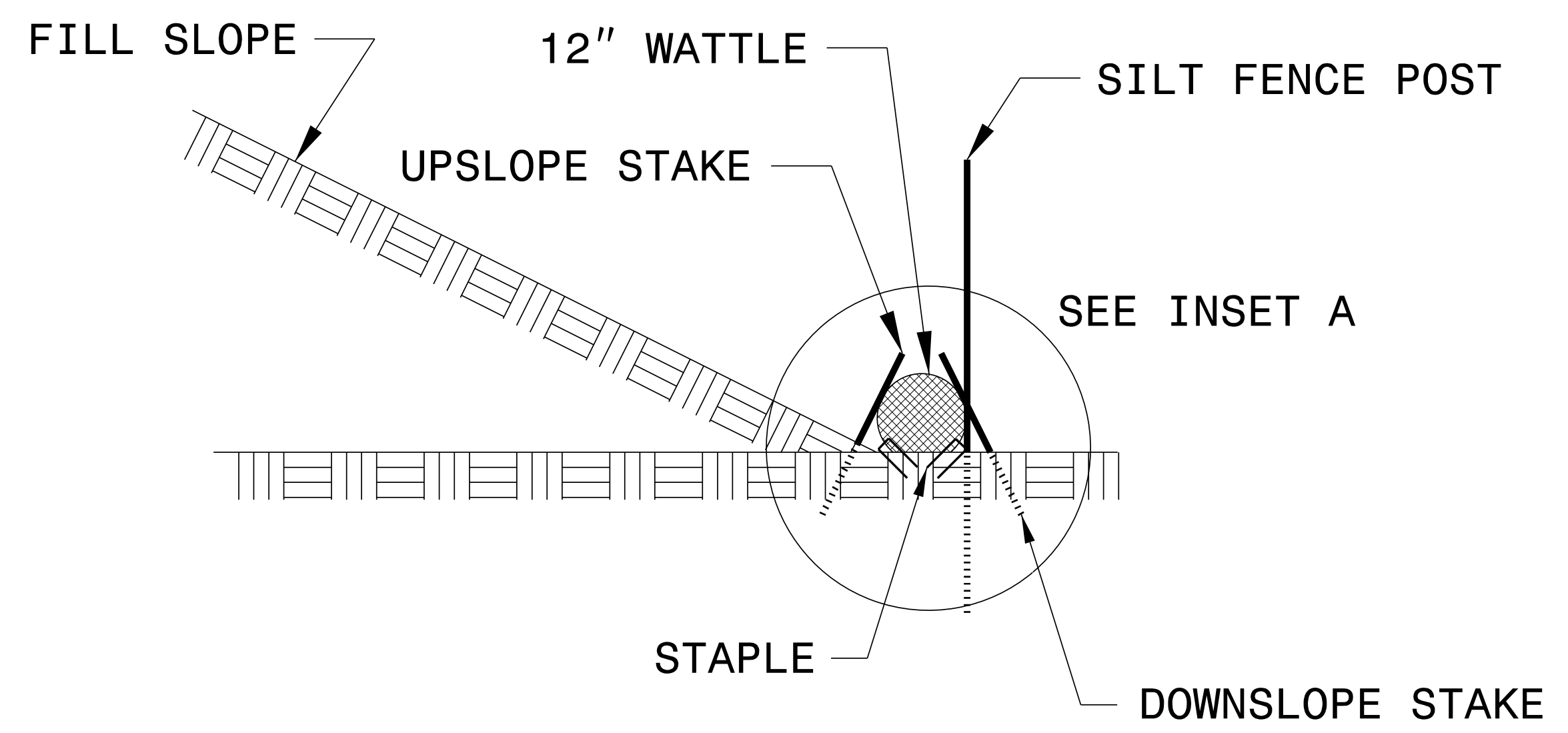
**NOTES:**

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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**



**VIEW FROM SLOPE**



**SIDE VIEW**

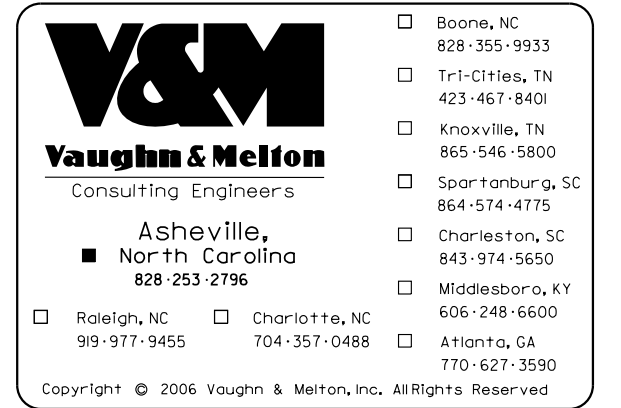
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

# ***SOIL STABILIZATION TIMEFRAMES***

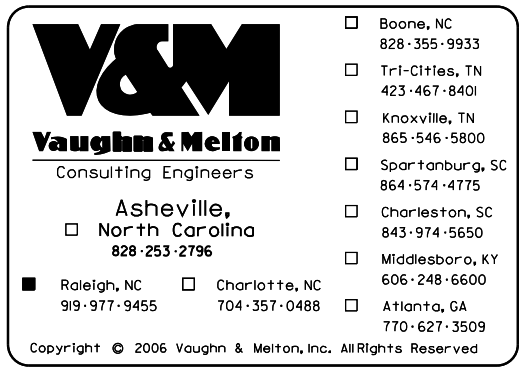
PROJECT REFERENCE NO. SHEET NO.

I-5964

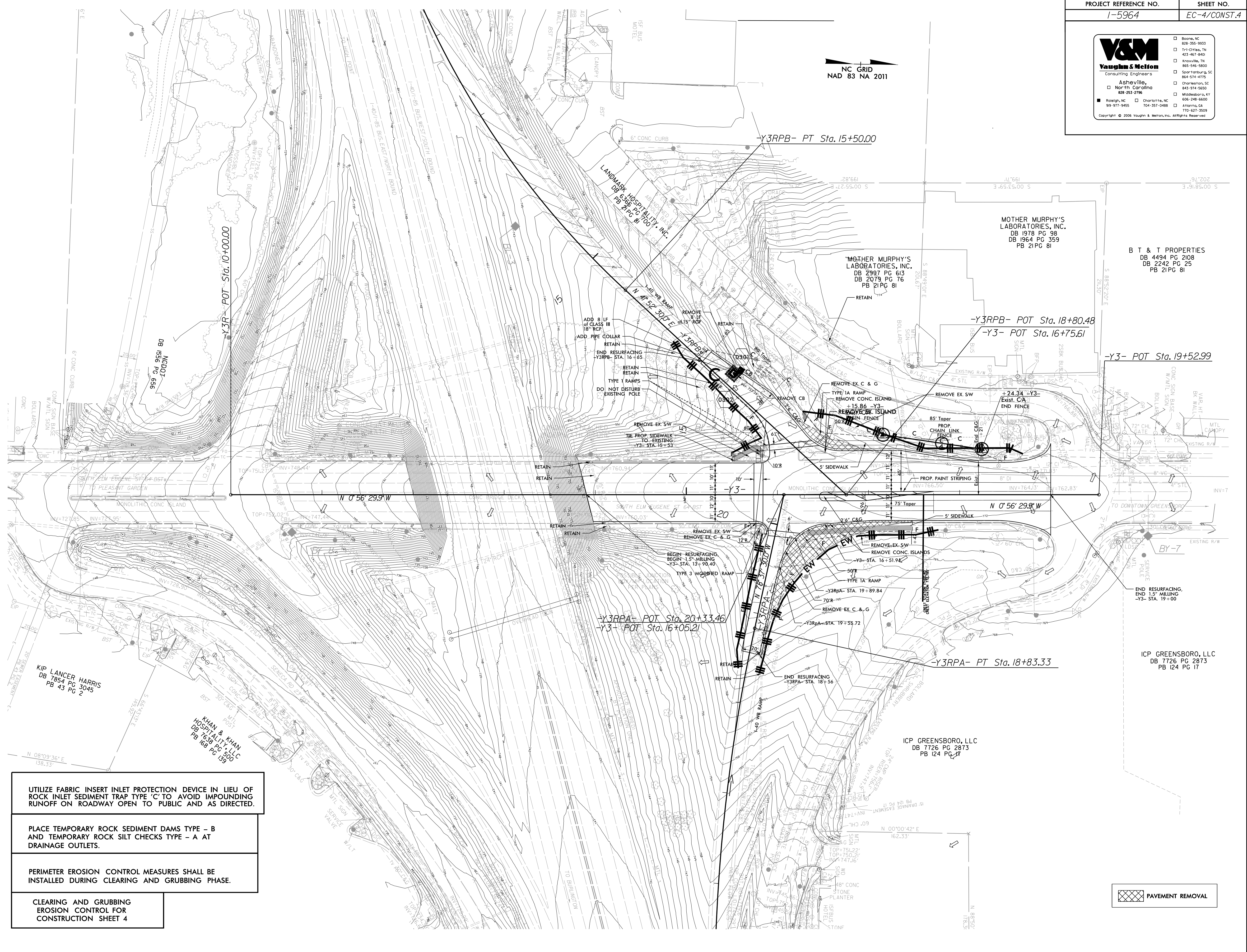
EC-3



<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.



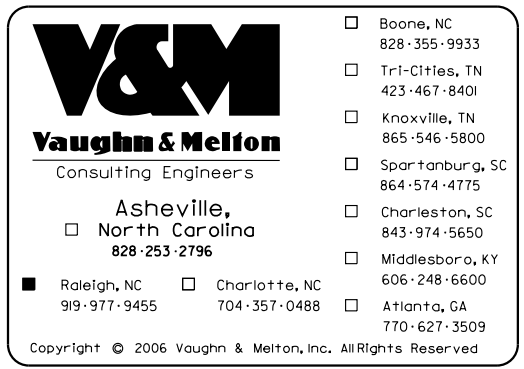
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NAD 83 NA 2011



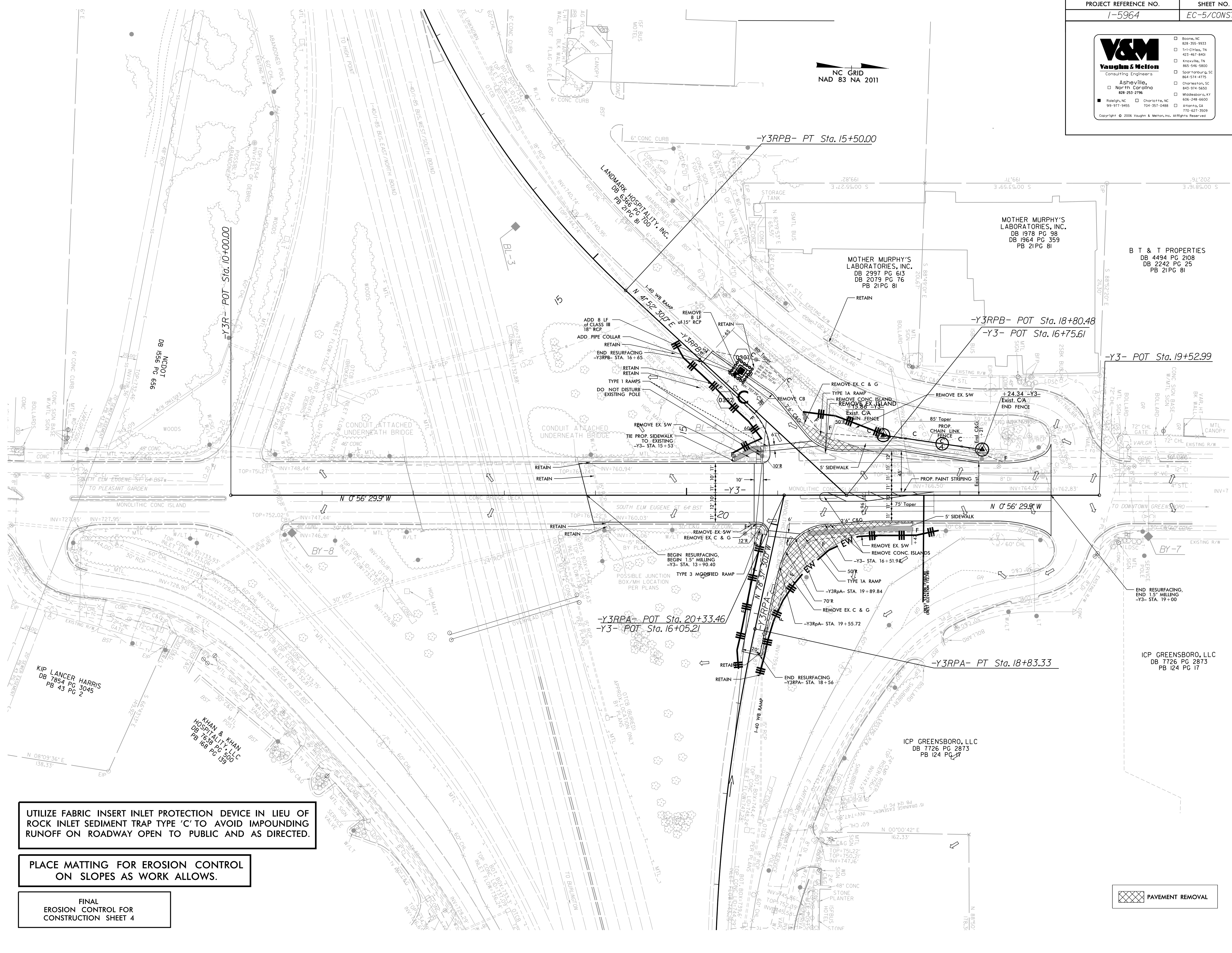
- UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE "C" TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC AND AS DIRECTED.
- PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.
- PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
- CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

PAVEMENT REMOVAL

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 User: jmelton



NC GRID  
NAD 83 NA 2011



UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC AND AS DIRECTED.

PLACE MATTING FOR EROSION CONTROL ON SLOPES AS WORK ALLOWS.

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4

PAVEMENT REMOVAL

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