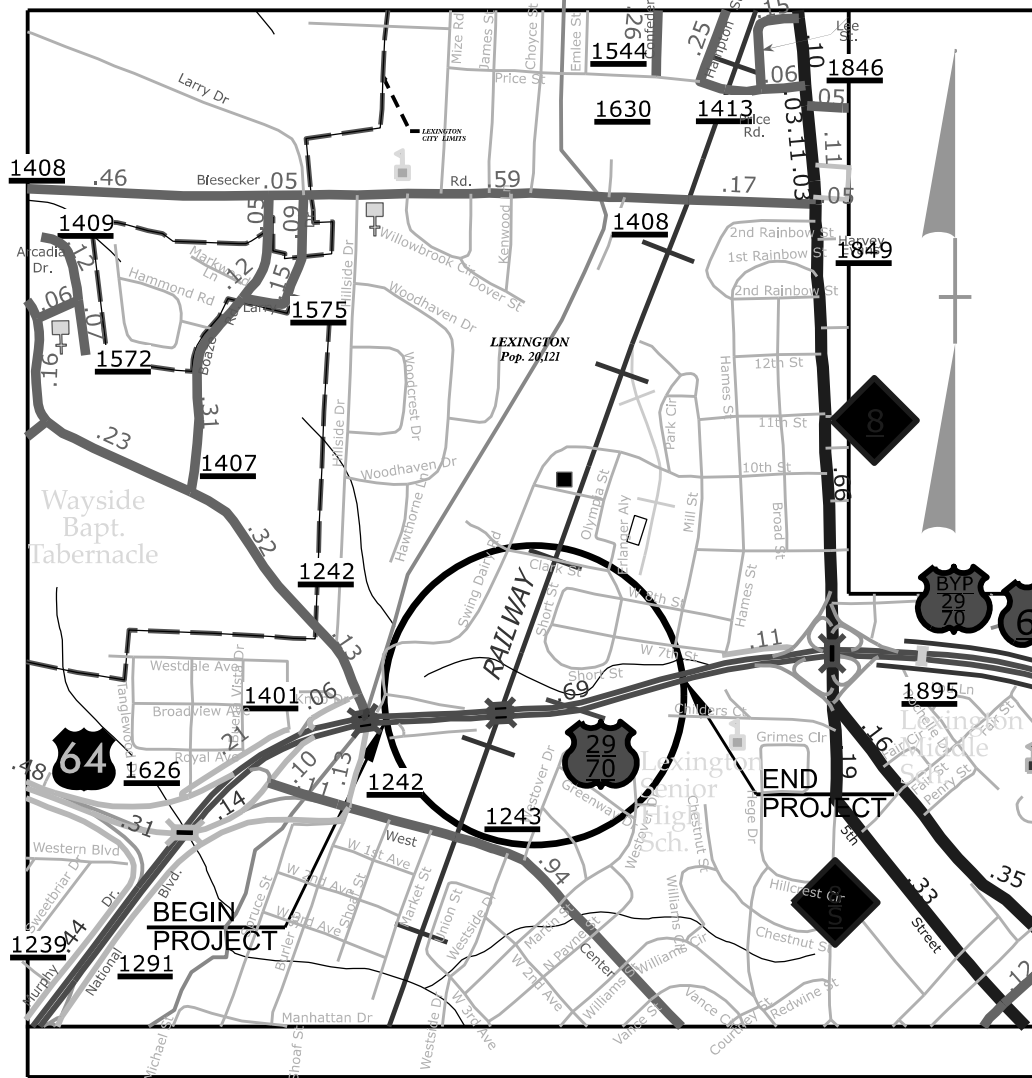


TIP PROJECT: BR-0140



VICINITY MAP
NOT TO SCALE

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

LOCATION: *REPLACE BRIDGES 87 AND 89 ON US 29/70
OVER WSSB RAILROAD*

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

BEGIN CONSTRUCTION
-L- STA 30+10.86

BEGIN TIP PROJECT BR-0140
-L- STA 27+79.34

SR 1401 (SMOKEHOUSE LN)
TO I-285

SR 1242
(WEST CENTER ST EXT)
TO BURLER ST

BEGIN BRIDGE (-L- EB)
-L- STA 38+55.16 11' RT

BEGIN BRIDGE (-L- WB)
-L- STA 38+64.27 11' LT

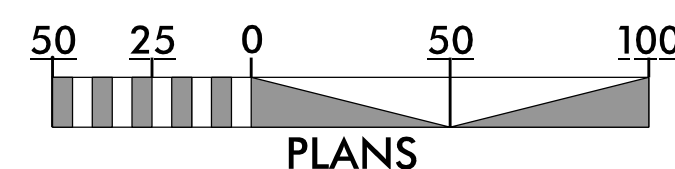
END BRIDGE (-L- WB)
-L- STA 40+83.77 11' LT

END BRIDGE (-L- EB)
-L- STA 40+74.66 11' RT

END TIP PROJECT BR-0140
-L- STA 56+59.72

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
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL AND
LAND RESOURCES.



Prepared In the Office of:
PARRISH AND PARTNERS

6701 CARMEL RD.
SUITE 210
CHARLOTTE, NC 28226

Designed by:

MONIKA SZOKE-FANCZAL, PE 4691

NAME

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

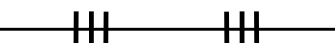
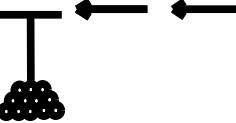
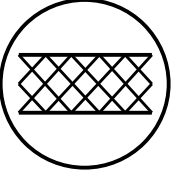
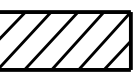
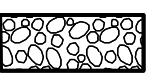
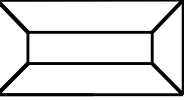
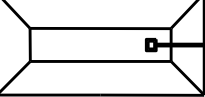
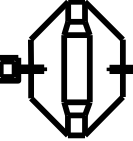
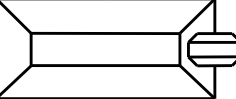
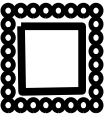
PROJECT REFERENCE NO.
BR-0140

SHEET NO.
EC-02



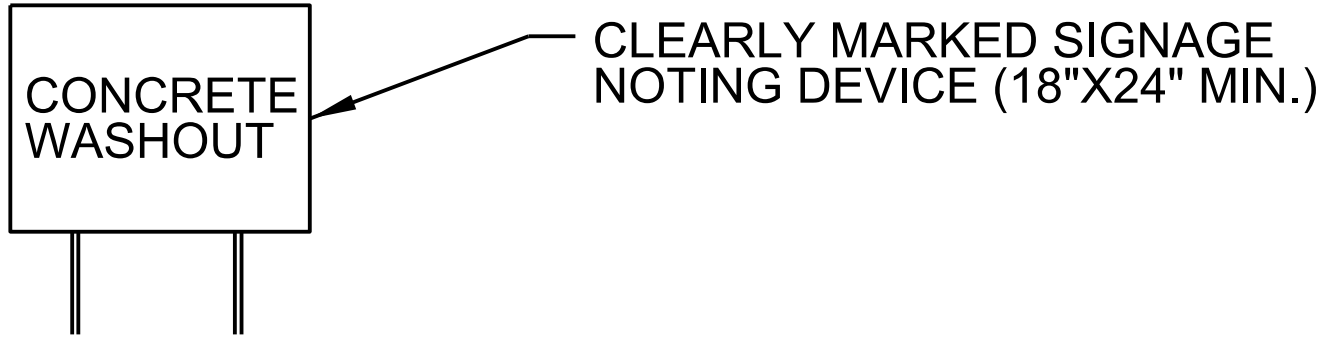
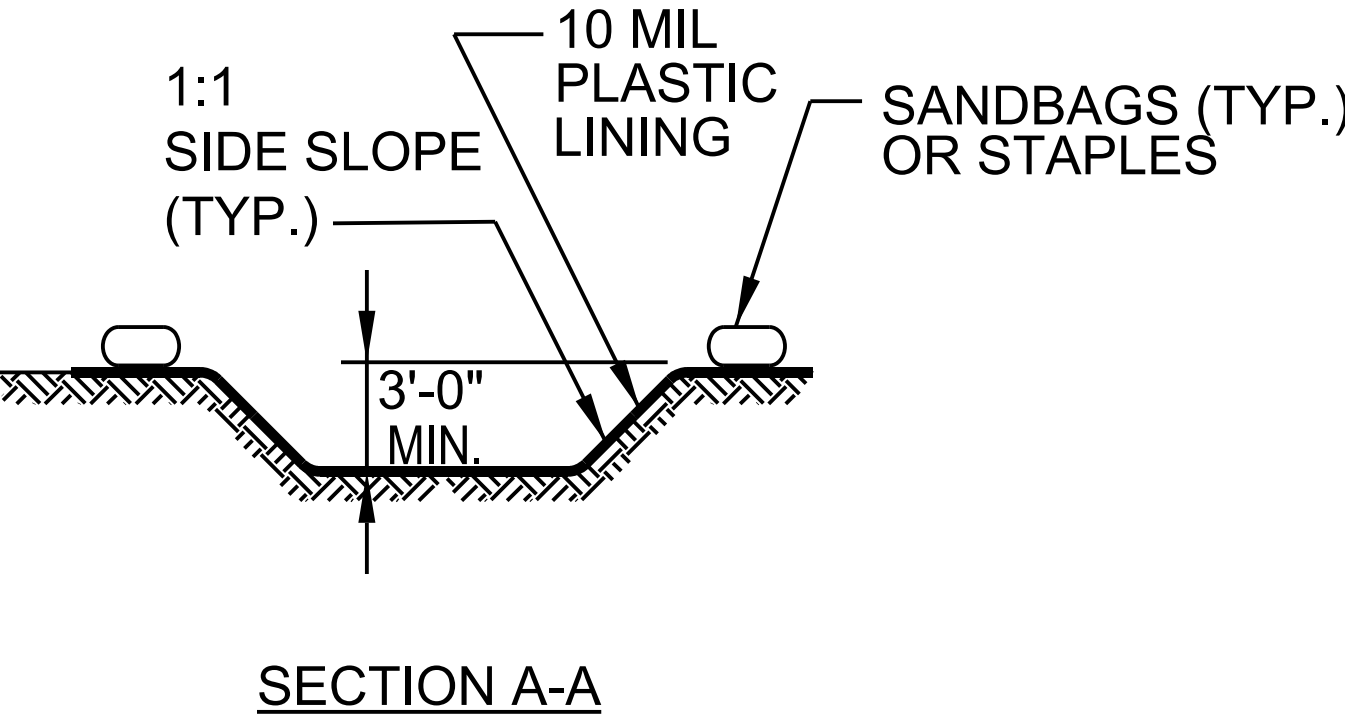
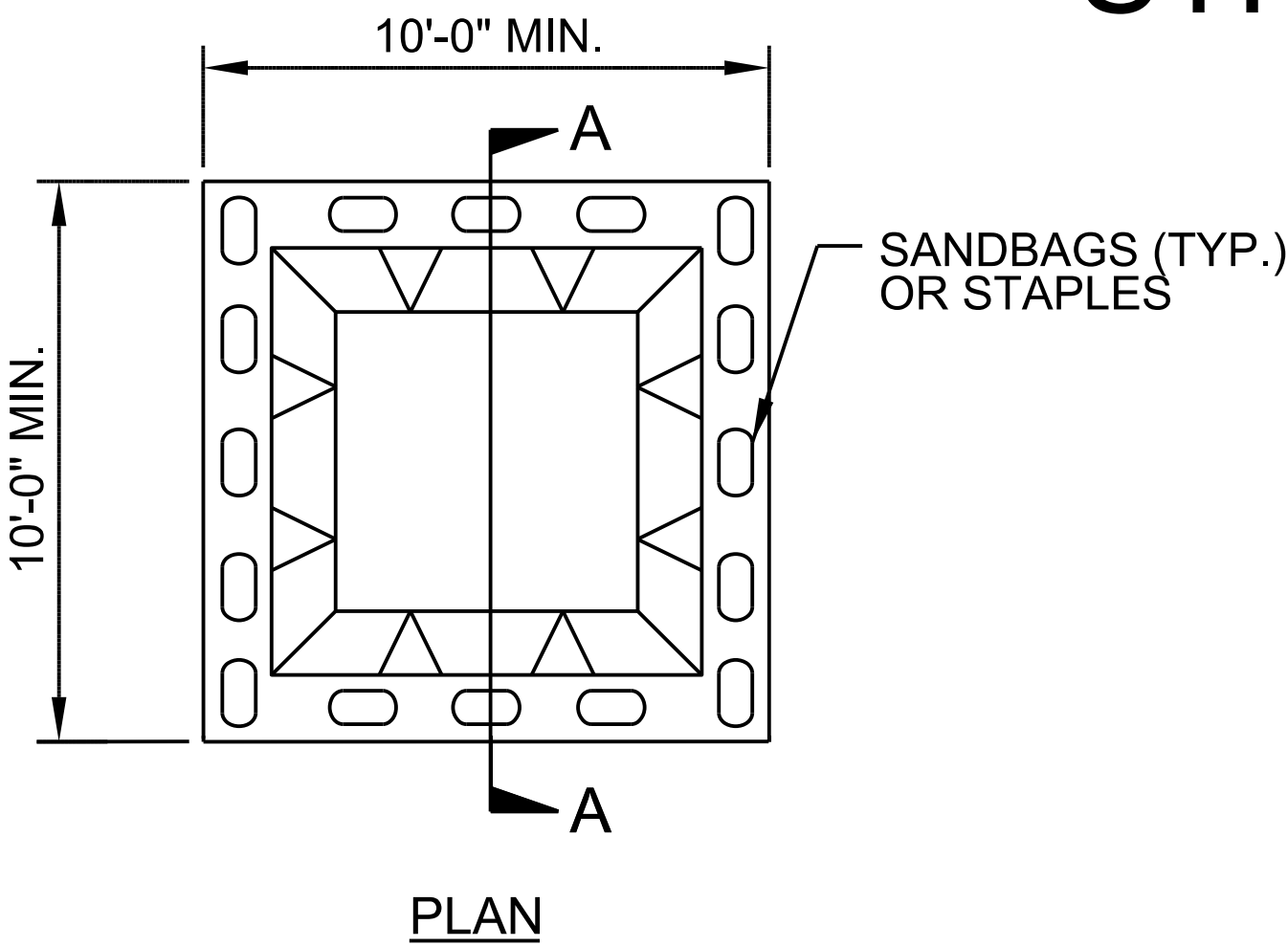
6701 CARMEL ROAD
SUITE 210
CHARLOTTE, NC 28226

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A				
1632.02	Type B		1636.03	Excelsior Wattle Barrier	
1632.03	Type C		1636.03	Coir Fiber Wattle Barrier	

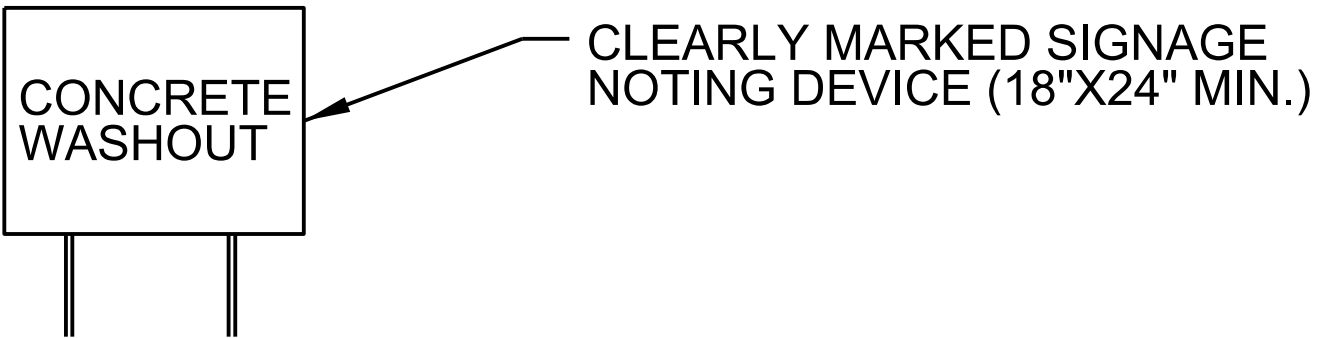
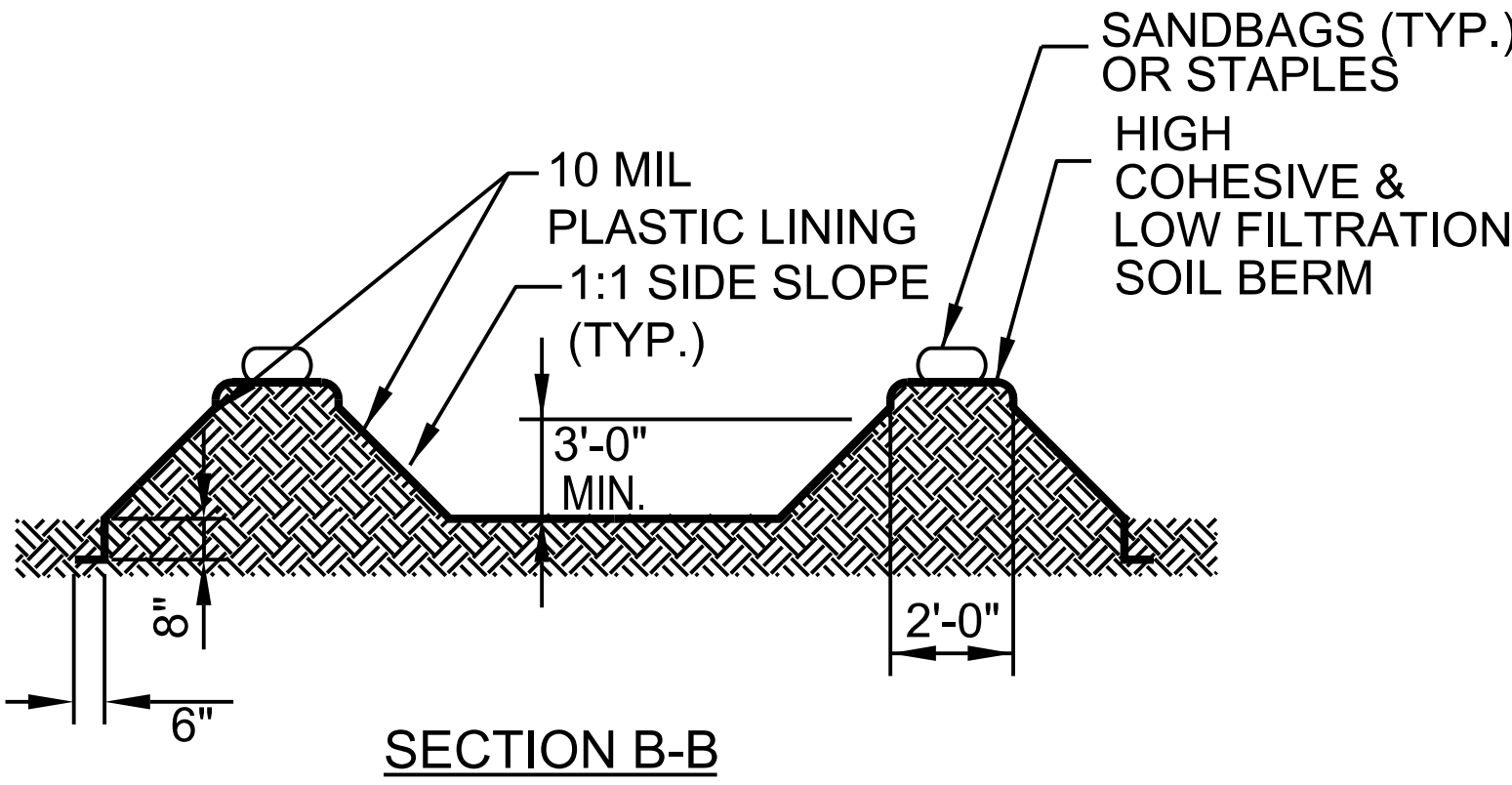
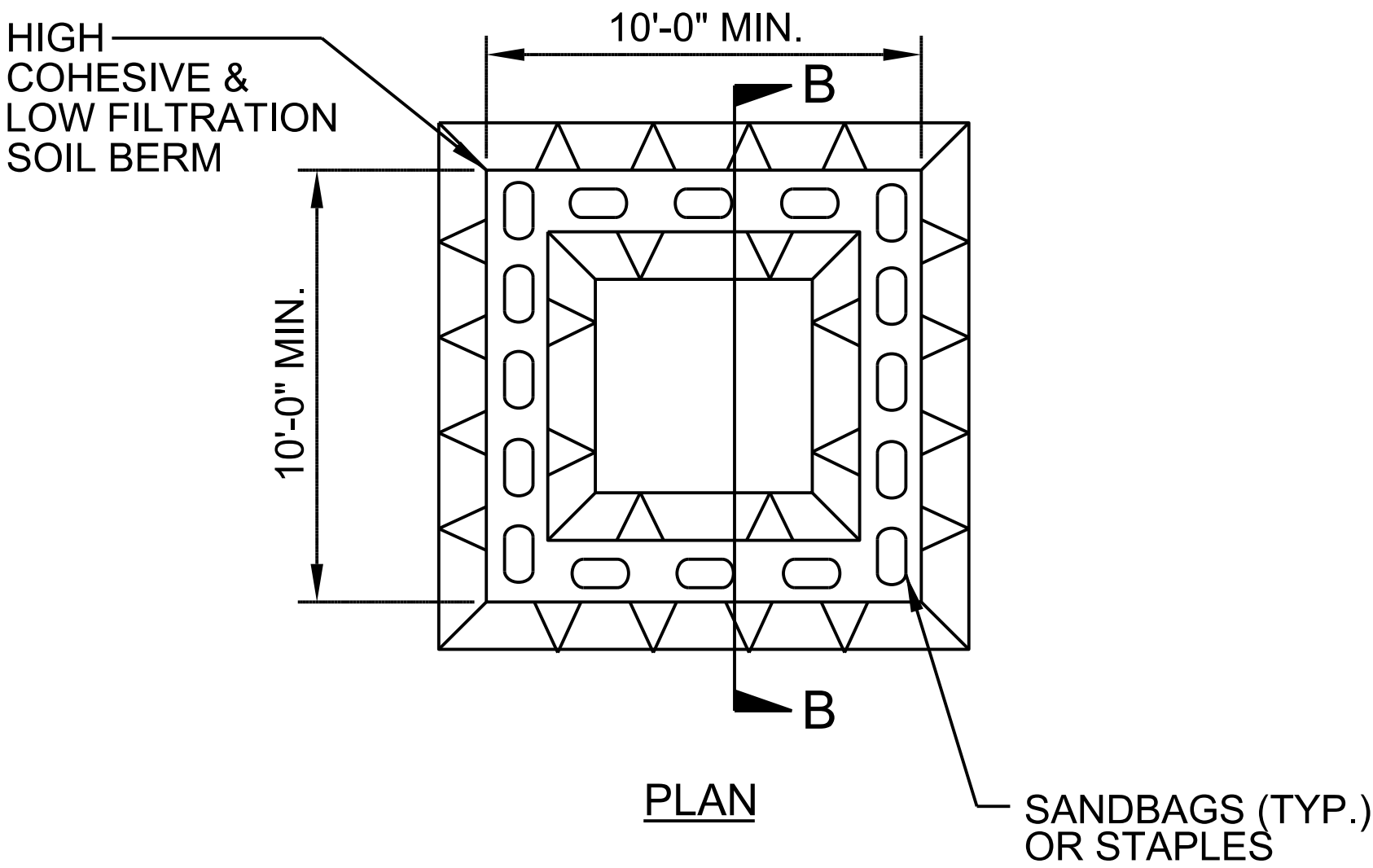
ONSITE CONCRETE WASHOUT
STRUCTURE WITH LINER

PROJECT REFERENCE NO.	SHEET NO.
BR-0140	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



SOIL STABILIZATION TIMEFRAMES

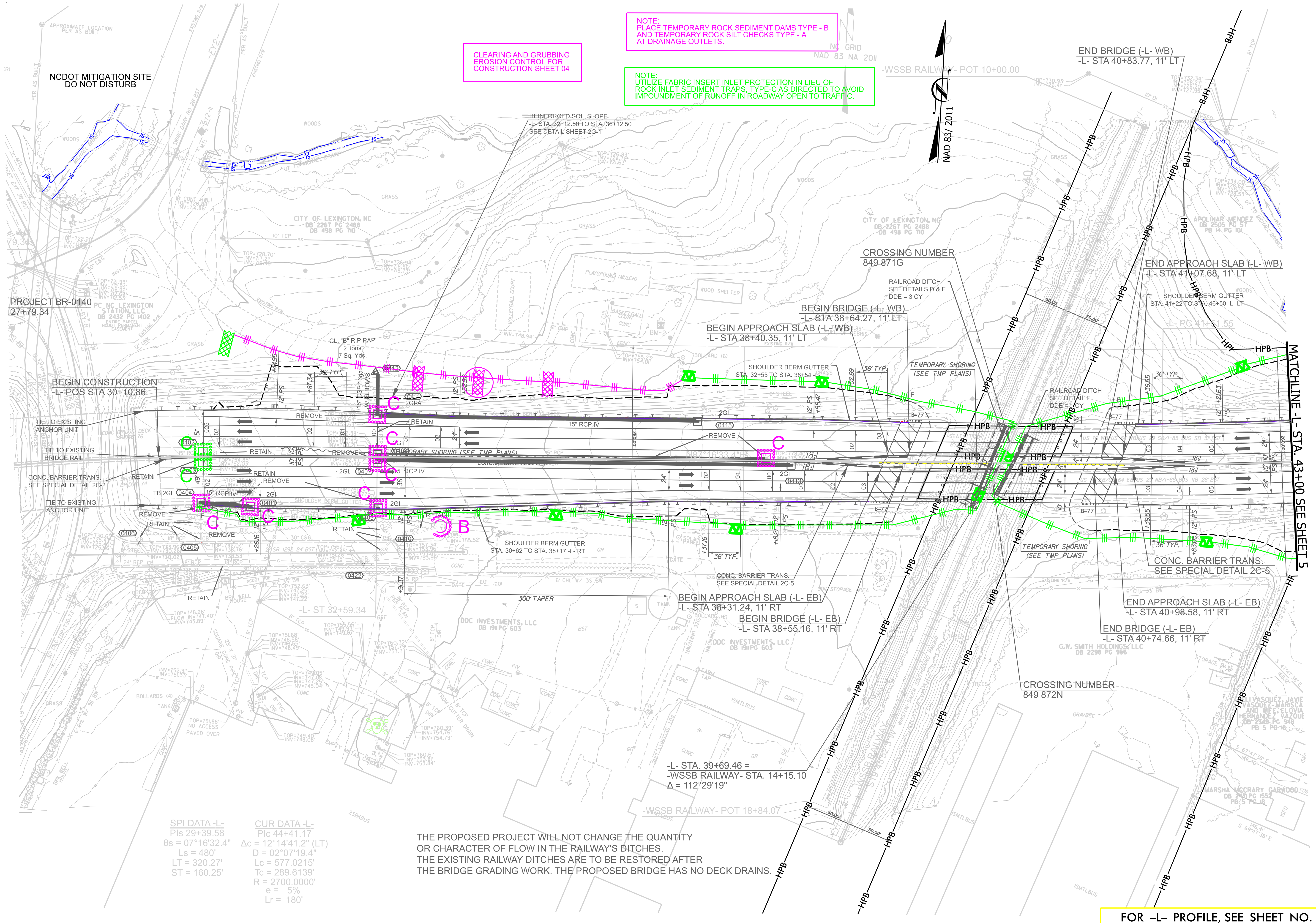
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

SOIL STABILIZATION SUMMARY SHEET

6701 CARMEL ROAD
SUITE 210
CHARLOTTE, NC 28226

STRAW MATTING FOR EROSION CONTROL (SLOPE)

[illegible]

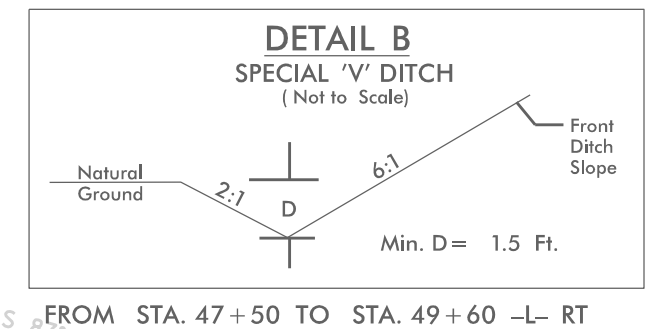
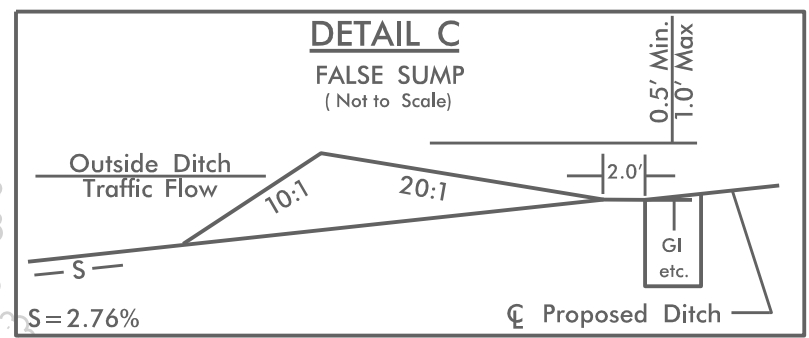
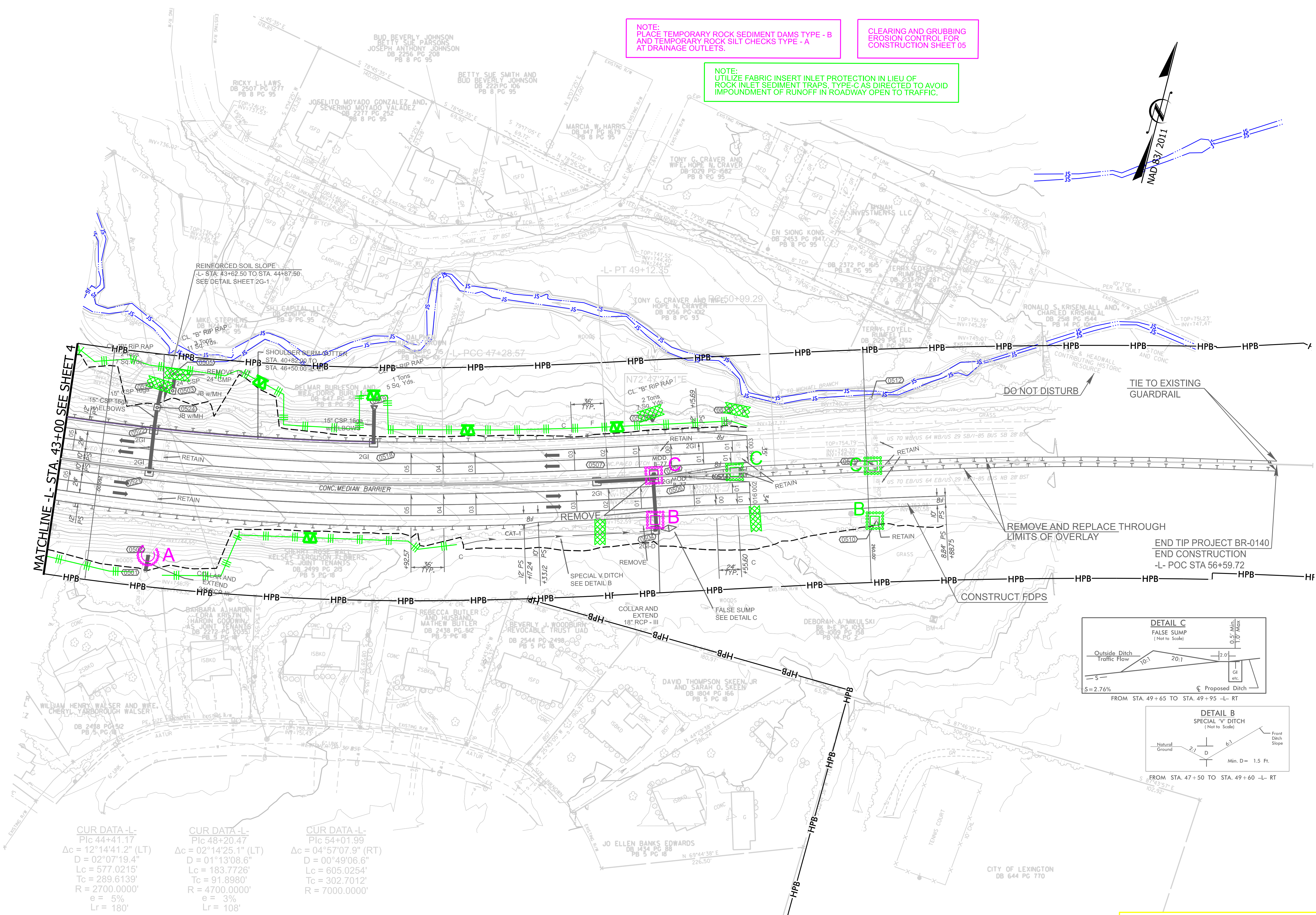


FOR -L- PROFILE, SEE SHEET NO. 6

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05



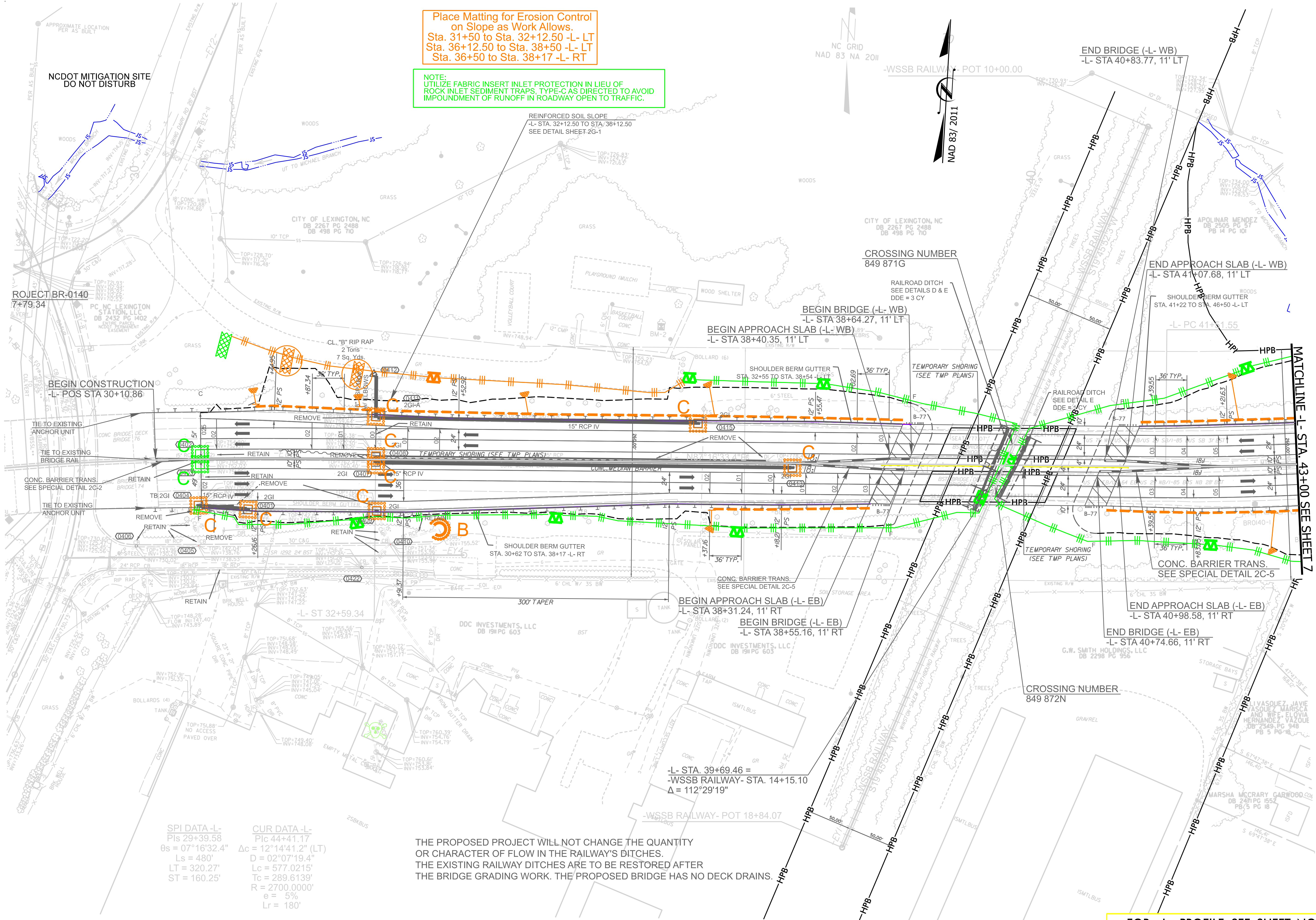
CUR DATA -L- Pic 44+41.17 Δc = 12°14'41.2" (LT) D = 02°07'19.4" Lc = 577.0215' Tc = 289.6139' R = 2700.0000' e = 5% Lr = 180'	CUR DATA -L- Pic 48+20.47 Δc = 02°14'25.1" (LT) D = 01°13'08.6" Lc = 183.7726' Tc = 91.8980' R = 4700.0000' e = 3% Lr = 108'	CUR DATA -L- Pic 54+01.99 Δc = 04°57'07.9" (RT) D = 00°49'06.6" Lc = 605.0254' Tc = 302.7012' R = 7000.0000'
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FOR -L- PROFILE, SEE SHEET NO. 7

REVISIONS

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 31+50 to Sta. 32+12.50 -L- LT
Sta. 36+12.50 to Sta. 38+50 -L- LT
Sta. 36+50 to Sta. 38+17 -L- RT

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



SPI DATA -L-
Pls 29+39.58
Bs = 07°16'32.4"
Ls = 480'
LT = 320.27'
ST = 160.25'

CUR DATA -L-
Plc 44+41.17
Δc = 12°14'41.2" (LT)
D = 02°07'19.4"
Lc = 577.0215'
Tc = 289.6139'
R = 2700.0000'
e = 5%
Lr = 180'

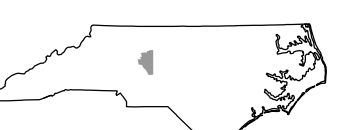
THE PROPOSED PROJECT WILL NOT CHANGE THE QUANTITY
OR CHARACTER OF FLOW IN THE RAILWAY'S DITCHES.
THE EXISTING RAILWAY DITCHES ARE TO BE RESTORED AFTER
THE BRIDGE GRADING WORK. THE PROPOSED BRIDGE HAS NO DECK DRAINS.

FOR -L- PROFILE, SEE SHEET NO. 6

BR-0140

EC-06 CONST.4

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY



ROADWAY DESIGN UNIT

PARRISH & PARTNERS

Parrish and Partners of
North Carolina, PLLC
220 Horizon Dr
Suite 100
Raleigh, NC 27615
Tel. (984) 459-8280
www.parrishandpartners.com
License No. P-1212

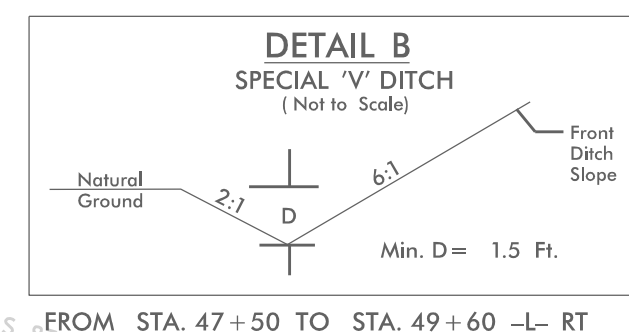
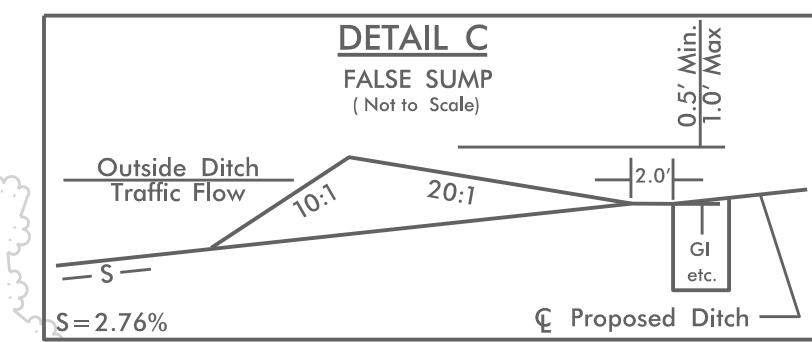
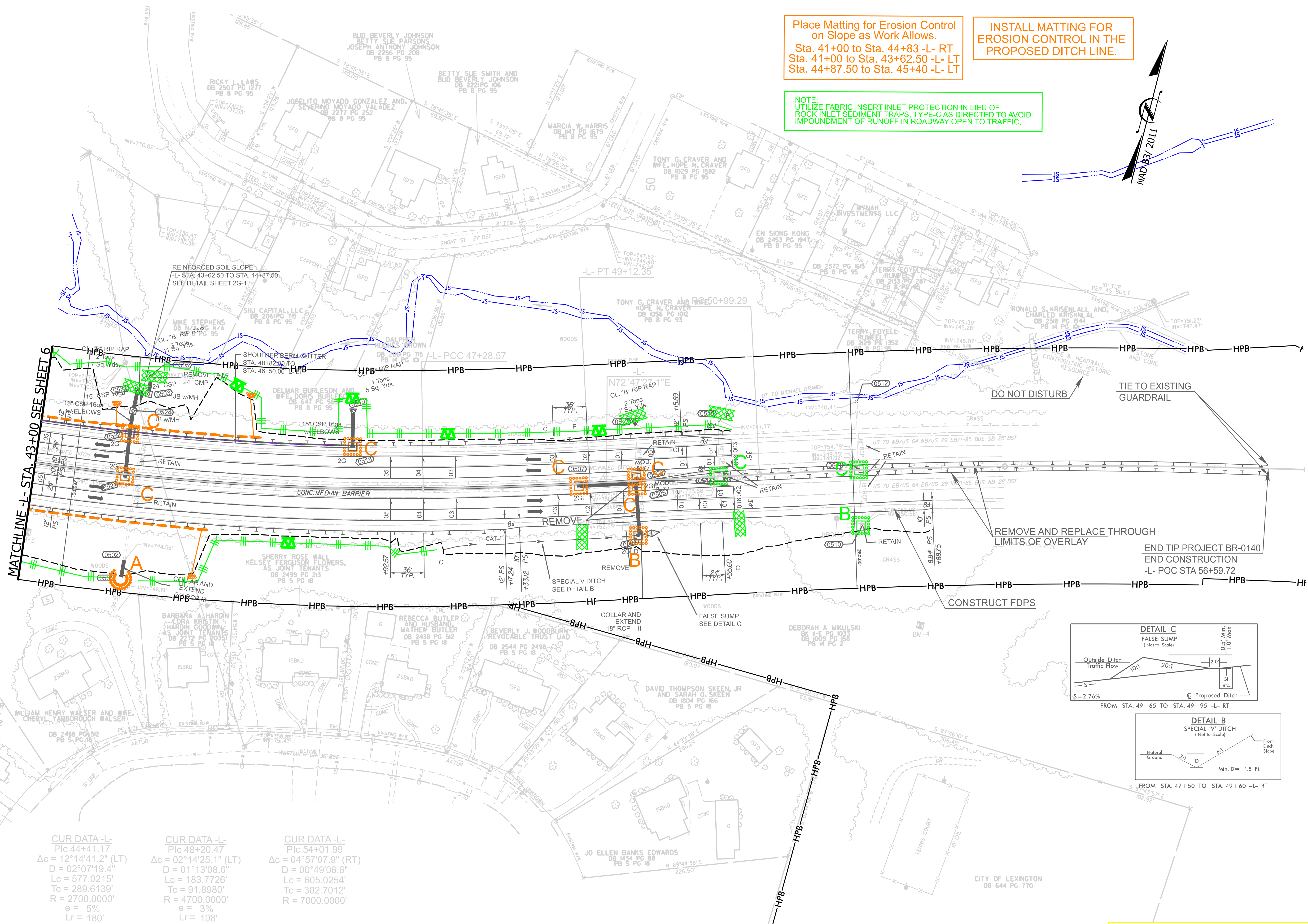
REVISIONS

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 41+00 to Sta. 44+83 -L- RT
Sta. 41+00 to Sta. 43+62.50 -L- LT
Sta. 44+87.50 to Sta. 45+40 -L- LT

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
ROCK INLET SEDIMENT TRAPS. TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

MAD 83/2011



FOR -L- PROFILE, SEE SHEET NO. 7