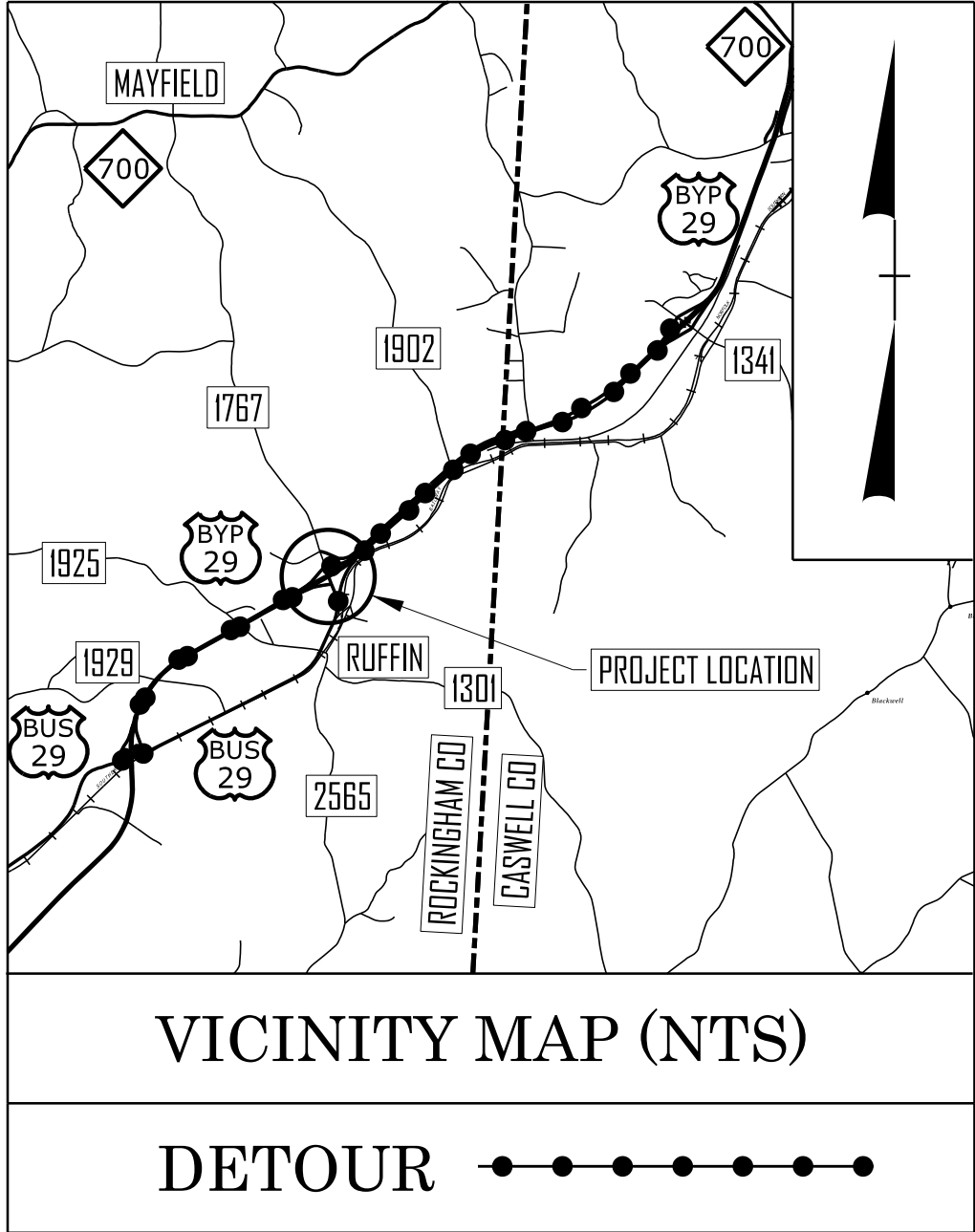


TIP PROJECT: BR-0098

See Sheet 1A For Index of Sheets



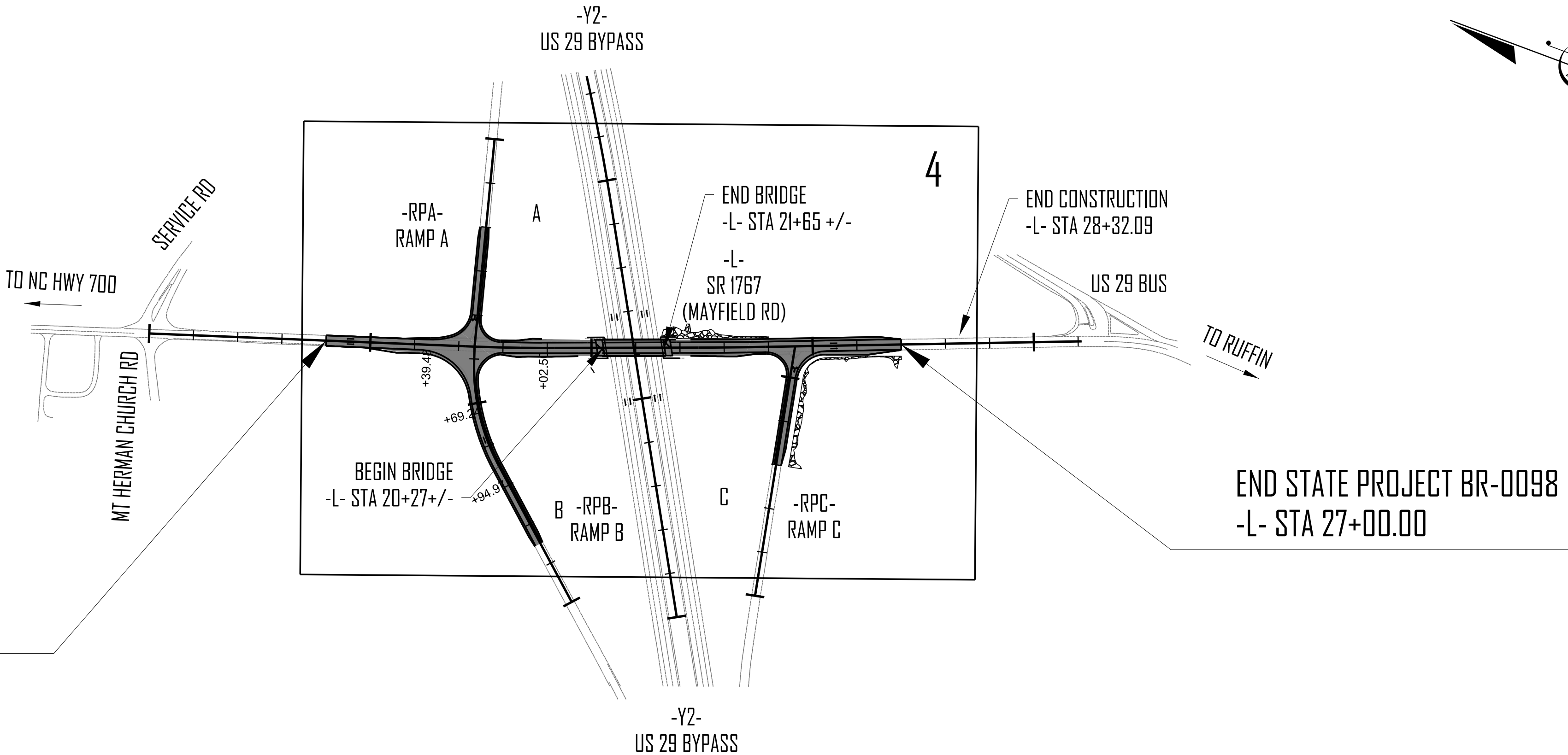
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROCKINGHAM COUNTY
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LOCATION: *REPLACE BRIDGE #780183 ON
US 29 (BUS) OVER
US 29 BYPASS*

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

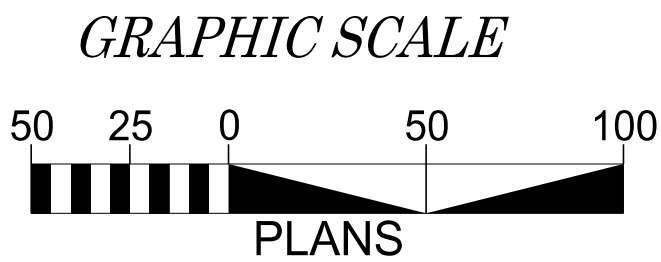
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0098	EC=11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
67098.1.1	N/A	PE	

BEGIN STATE PROJECT BR-0098
BEGIN CONSTRUCTION -L- STA 14+00.00

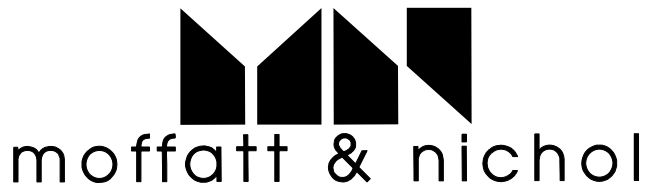


CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.

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



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL STORMWATER CONSTRUCTION PERMIT
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF ENERGY,
MINERAL, AND LAND RESOURCES.



Prepared in the Office of:
MOFFATT & NICHOL
4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919)781-4626 PHONE (919)781-4869 FAX

Designed by:
JUSTIN DAVENPORT 3989
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

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.04	Stilling Basin	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
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	
1635.02	Rock Pipe Inlet Sediment Trap Type B	
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	
	Silt Fence Coir Fiber Wattle Break	
1636.03	Excelsior Wattle Barrier	
1636.03	Coir Fiber Wattle Barrier	

BR-0098

EC-02

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WAKE COUNTY

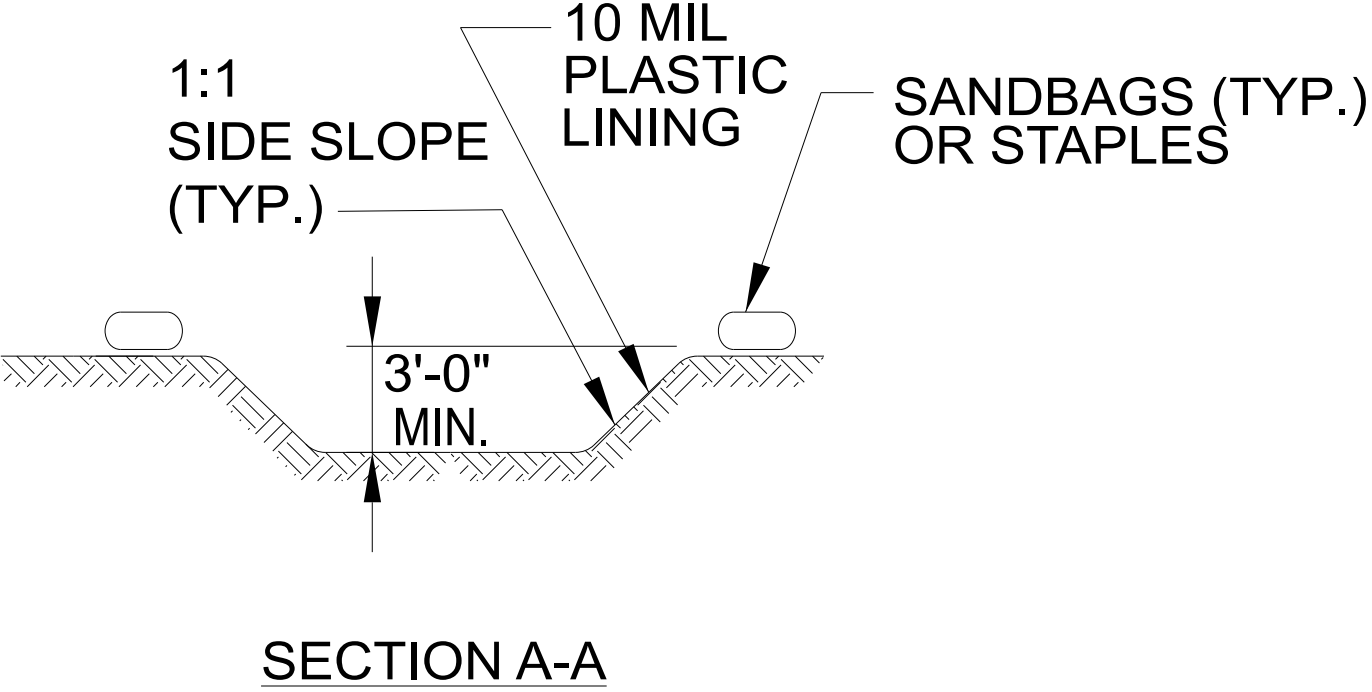
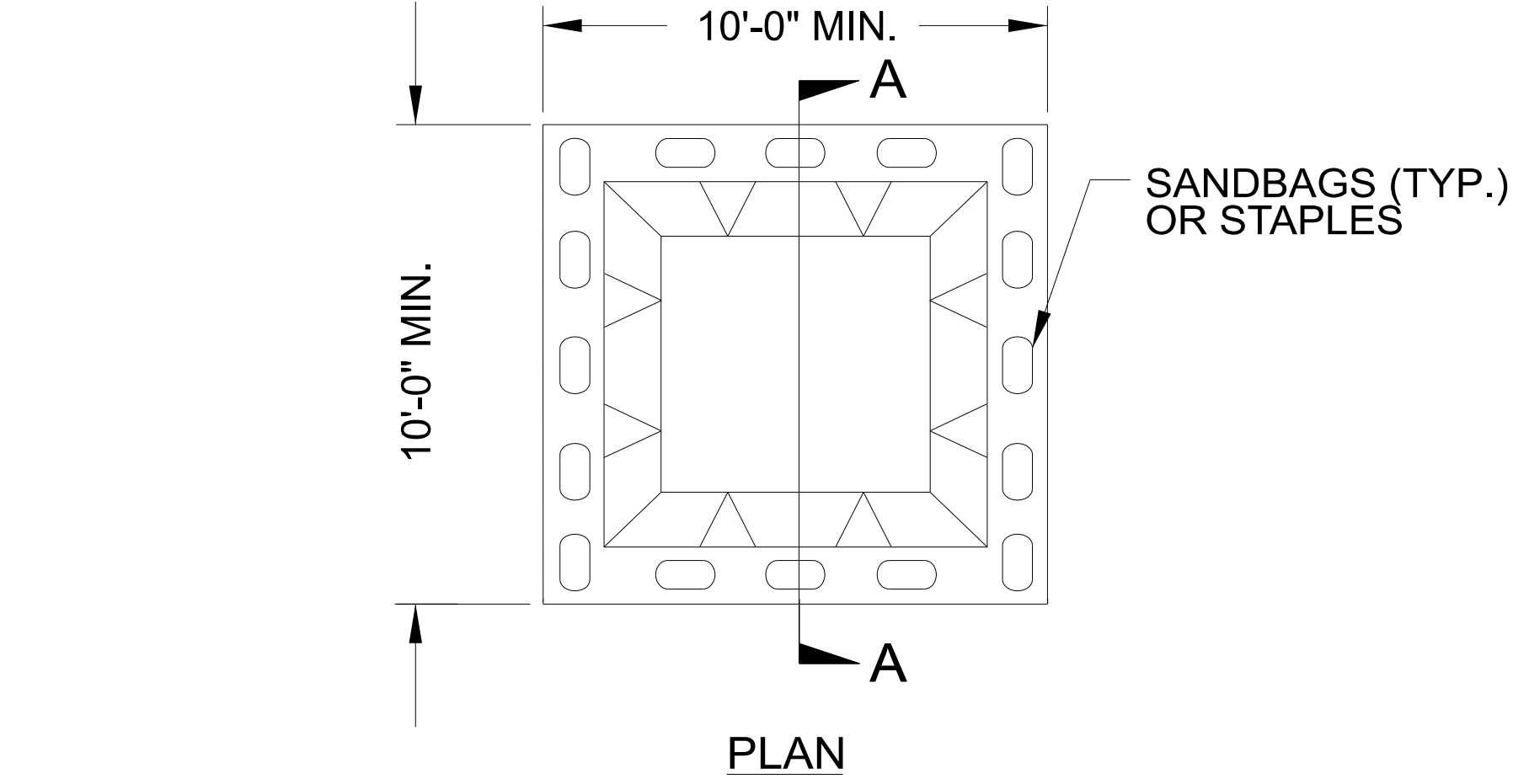
PREPARED BY

moffatt & nichol

4700 FALLS OF NEUSE ROAD, SUITE 300
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(919) 781-9200 FAX (919) 781-9200
NC LICENSE NO. 2-P-0109

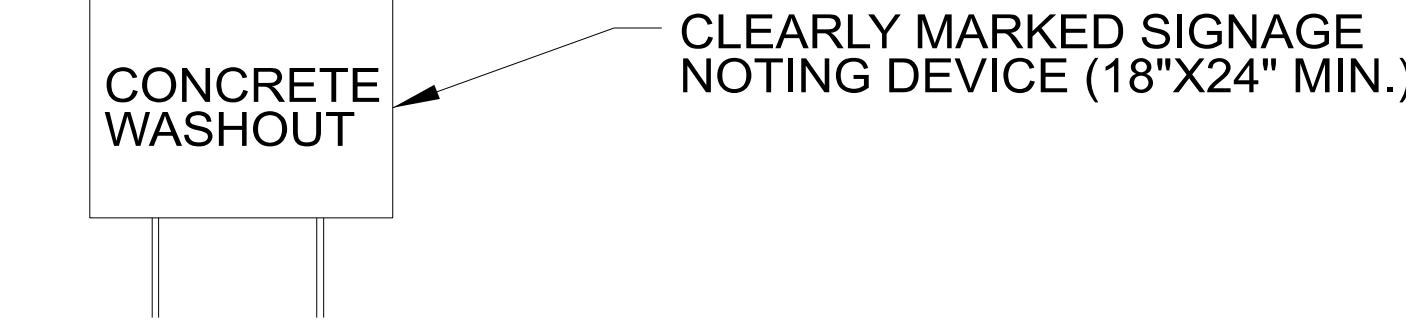
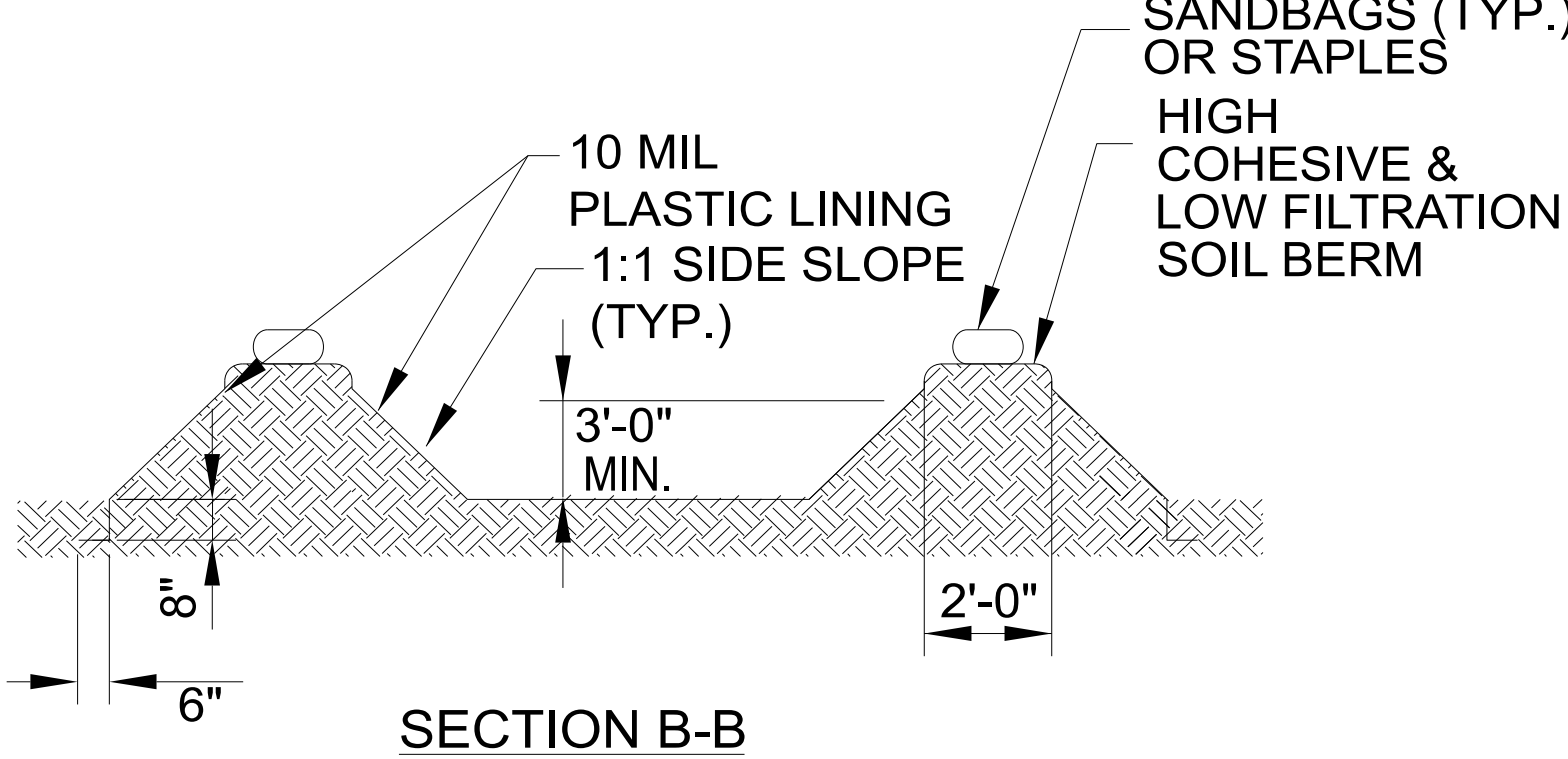
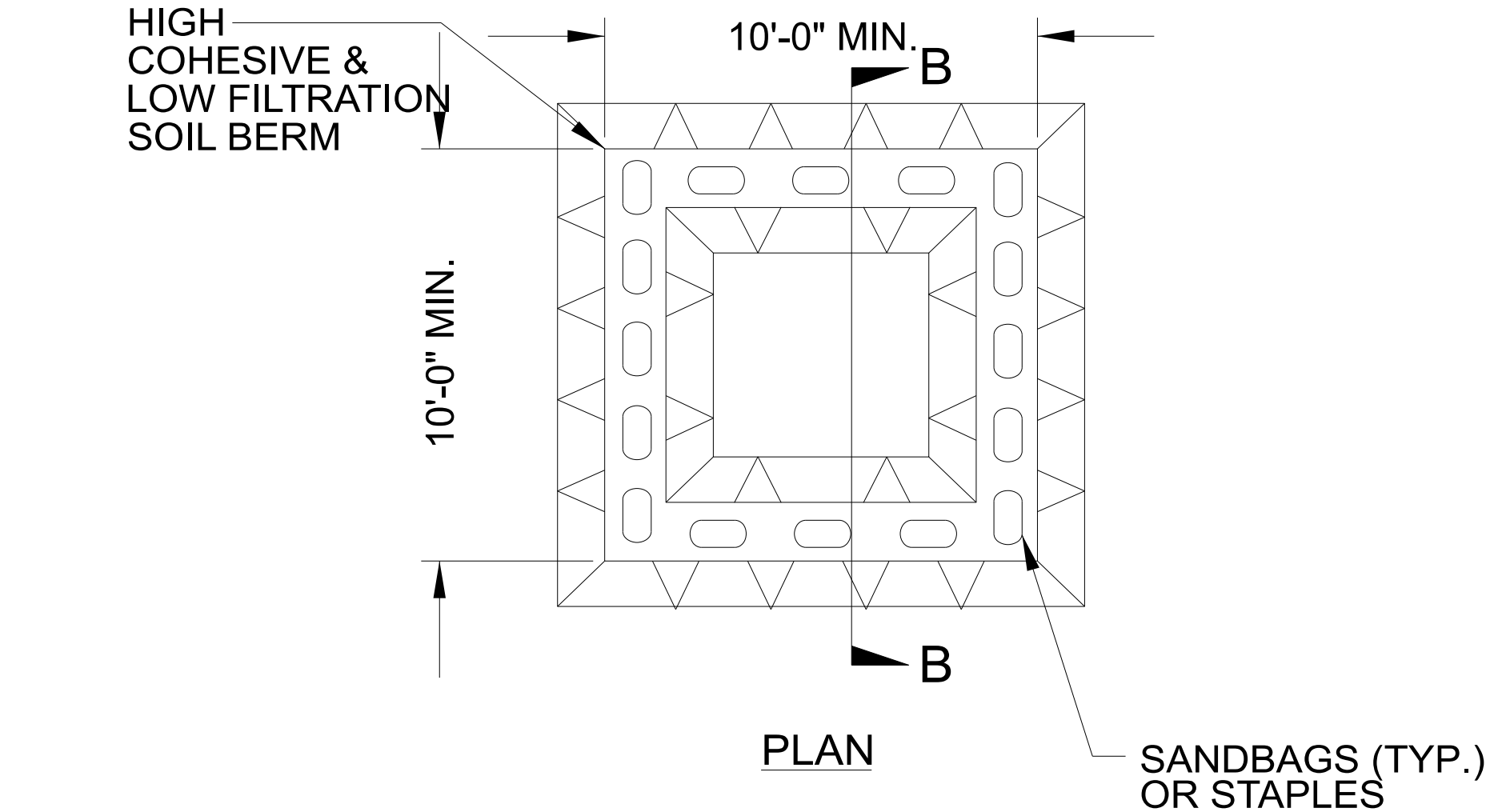
REVISIONS

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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.

MATting FOR EROSION CONTROL

[illegible]

4700 FALLS OF NEUSE ROAD, SUITE 300
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NC LICENSE NO.: F-0105

ANOTAT A FIAT

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

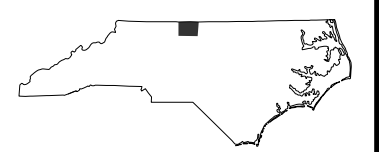
SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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 FOR 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

BR-0098

EC-03A

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WAKE COUNTY

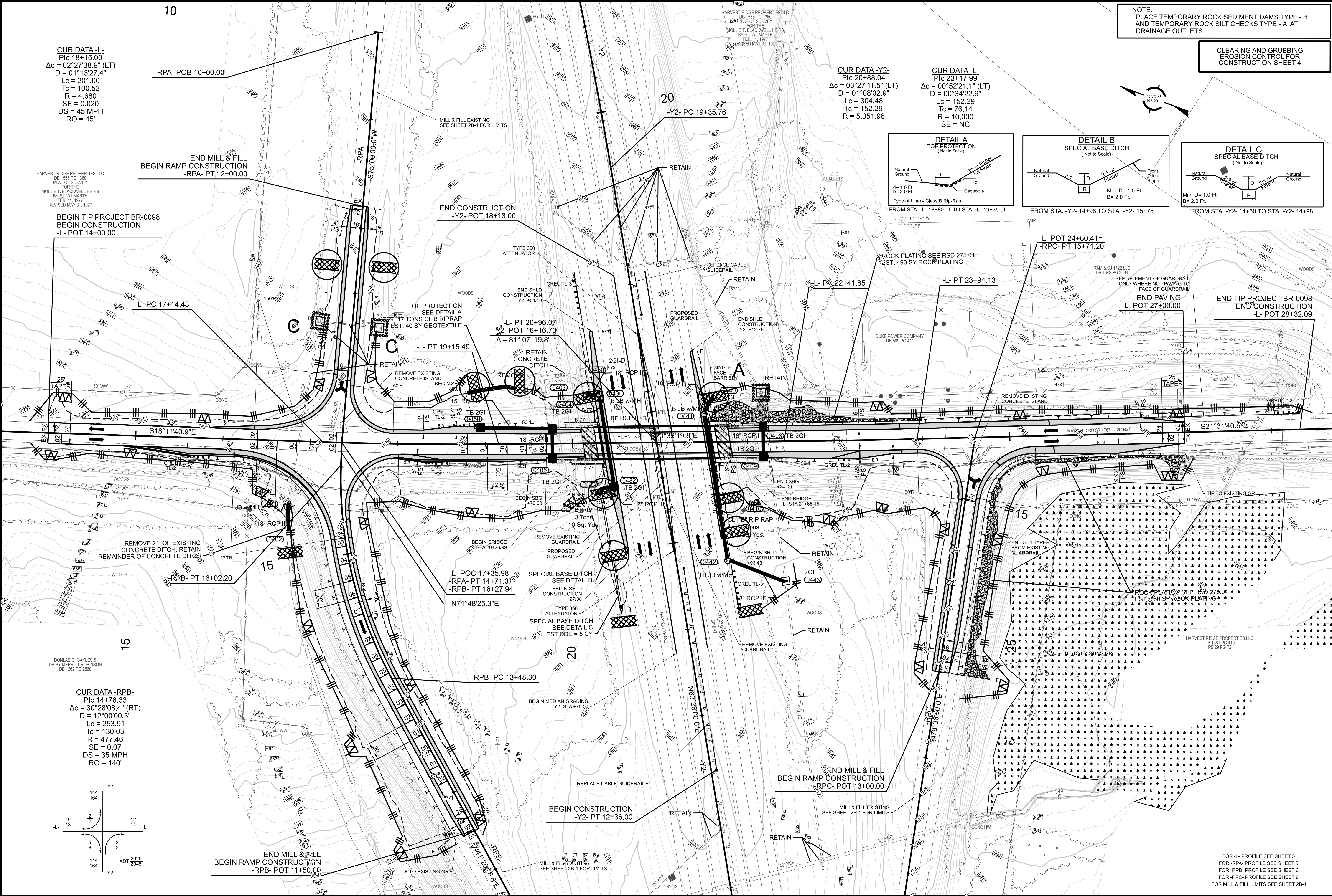


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REVISIONS



BR-0098

EC-04 004

NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WAKE COUNTY

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NC LICENSE NO. 2-PG108

REVISIONS

10

CUR DATA -L-
Plc 18+15.00
 $\Delta c = 02^{\circ}27'38.9''$ (LT)
 $D = 01^{\circ}13'27.4''$
 $L_c = 201.00$
 $T_c = 100.52$
 $R = 4.680$
 $SE = 0.020$
 $DS = 45$ MPH
 $RO = 45'$

HARVEST RIDGE PROPERTIES LLC
DB 1555 PG 1360
PLAT OF SURVEY
FOR THE
MOLLIE T. BLACKWELL HEIRS
BY E.L. WILMARTH
FEB. 11, 1977
REVISED MAY 31, 1977

BEGIN TIP PROJECT BR-0098
BEGIN CONSTRUCTION
-L- POT 14+00.00

END MILL & FILL
BEGIN RAMP CONSTRUCTION
-RPA- PT 12+00.00

-L- PC 17+14.48

-RPB- PT 16+02.20

CUR DATA -RPB-
Plc 14+78.33
 $\Delta c = 30^{\circ}28'08.4''$ (RT)
 $D = 12^{\circ}00'00.3''$
 $L_c = 253.91$
 $T_c = 130.03$
 $R = 477.46$
 $SE = 0.07$
 $DS = 35$ MPH
 $RO = 140'$

END MILL & FILL
BEGIN RAMP CONSTRUCTION
-RPB- POT 11+50.00

END CONSTRUCTION
-Y2- POT 18+13.00

-L- PT 19+15.49
-L- PT 20+96.07
-Y2- POT 16+16.70
 $\Delta = 81^{\circ}07'19.8''$

-L- POC 17+35.98
-RPA- PT 14+71.37
-RPB- PT 16+27.94
 $N71^{\circ}48'25.3''E$

-RPB- PC 13+48.30

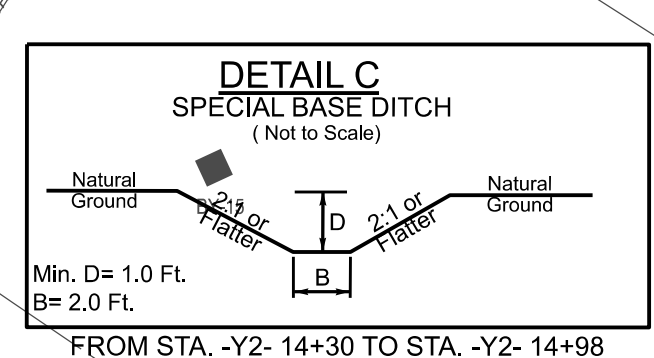
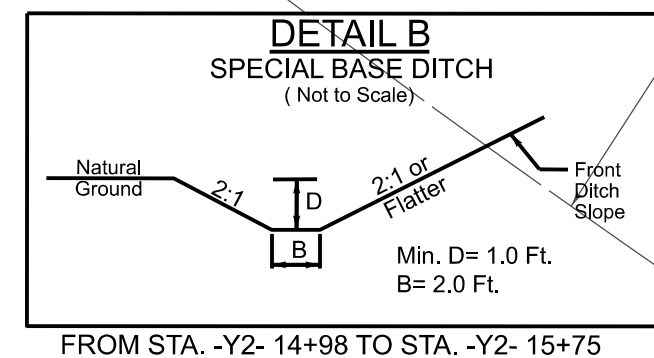
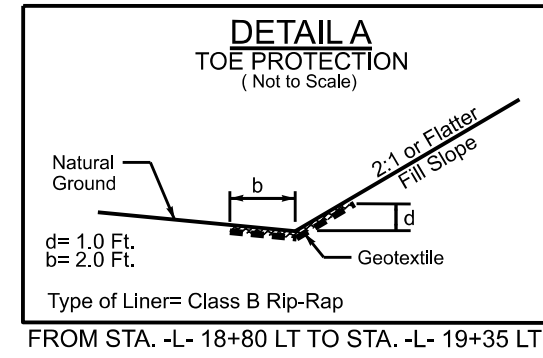
BEGIN CONSTRUCTION
-Y2- PT 12+36.00

20

-Y2- PC 19+35.76

CUR DATA -Y2-
Plc 20+88.04
 $\Delta c = 03^{\circ}27'11.5''$ (LT)
 $D = 01^{\circ}08'02.9''$
 $L_c = 304.48$
 $T_c = 152.29$
 $R = 5,051.96$

CUR DATA -L-
Plc 23+17.99
 $\Delta c = 00^{\circ}52'21.1''$ (LT)
 $D = 00^{\circ}34'22.6''$
 $L_c = 152.29$
 $T_c = 76.14$
 $R = 10,000$
 $SE = NC$

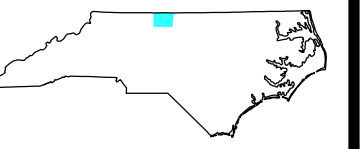


UTILIZE FABRIC INSERT INLET PROTECTIONS
IN LIEU OF ROCK INLET SEDIMENT TRAPS
TYPE-C, AS DIRECTED BY THE ENGINEER TO
AVOID IMPOUNDMENT OF RUNOFF
IN ROADWAY OPEN TO TRAFFIC.

BR-0098

EC-05 004

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WAKE COUNTY



PREPARED BY

moffatt & nichol

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NC LICENSE NO. 2-P-0108

REVISIONS

FOR -L- PROFILE SEE SHEET 5
FOR -RPA- PROFILE SEE SHEET 5
FOR -RPB- PROFILE SEE SHEET 6
FOR -RPC- PROFILE SEE SHEET 6
FOR MILL & FILL LIMITS SEE SHEET 2B-1