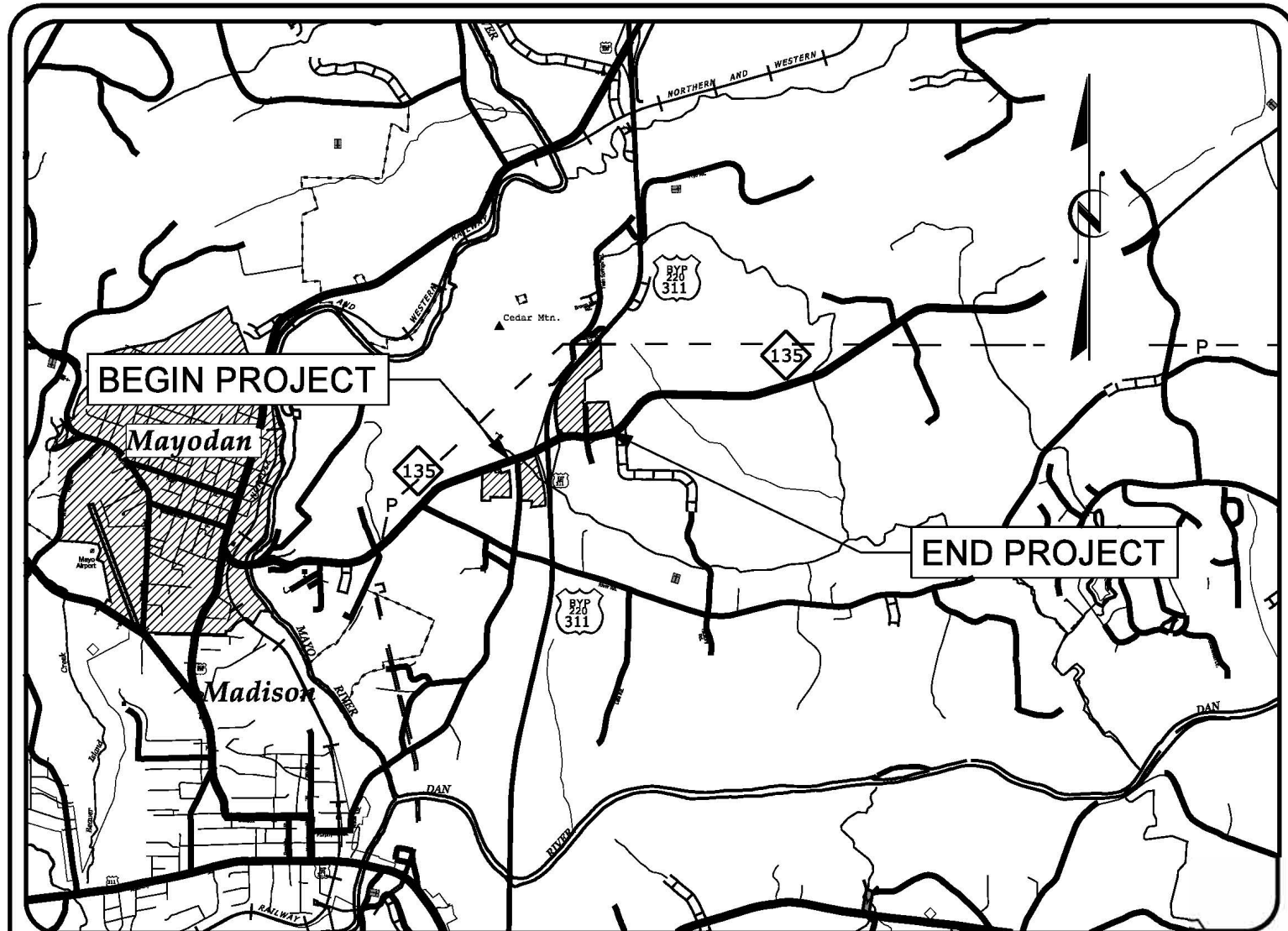


TIP PROJECT: I-5898



VICINITY MAP

NOT TO SCALE

MAYODAN MUNICIPAL BOUNDARIES

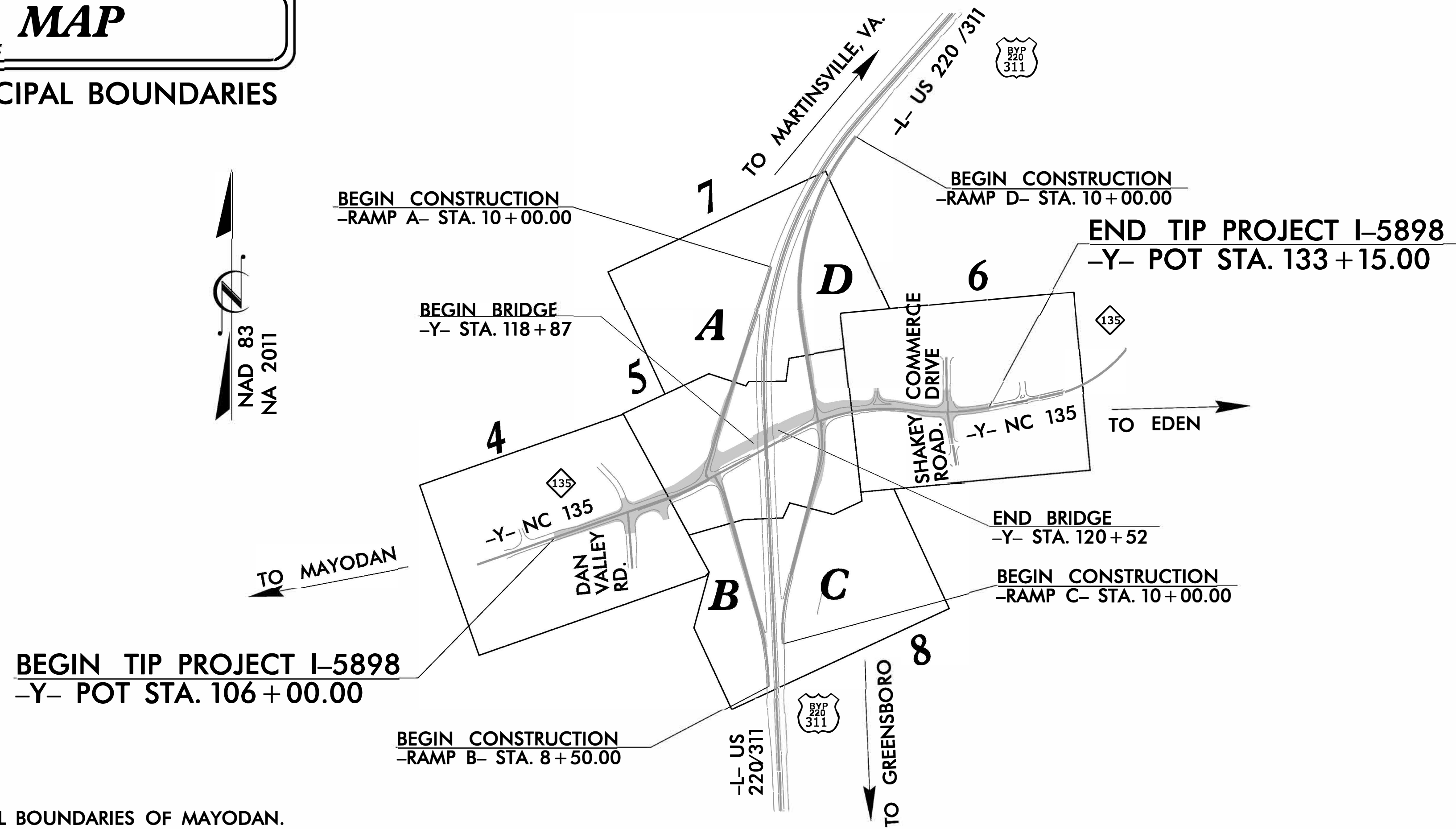
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ROCKINGHAM COUNTY

LOCATION: FUTURE I-73 /US 220 AT US 311 /NC 135 INTERCHANGE.
TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURE AND MSE WALLS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5898	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46860.1.1		PE	
46860.2.1		R /W	
46860.2.2		UTIL	
46860.3.1		CONST	

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



- THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF MAYODAN.
- THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

GRAPHIC SCALE



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.



JOHNSON, MIRMIRAN
& THOMPSON INC.

4700 Falls of Neuse Road, Suite 100,
Raleigh, NC 27609

Prepared in the Office of:
JOHNSON, MIRMIRAN & THOMPSON, INC.

4700 Falls of Neuse Road, Suite 100,
Raleigh, NC, 27609

2024 STANDARD SPECIFICATIONS

Designed by:

CARLY GOLDSBOROUGH
NAME

4243
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.	SHEET NO.
I-5898	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

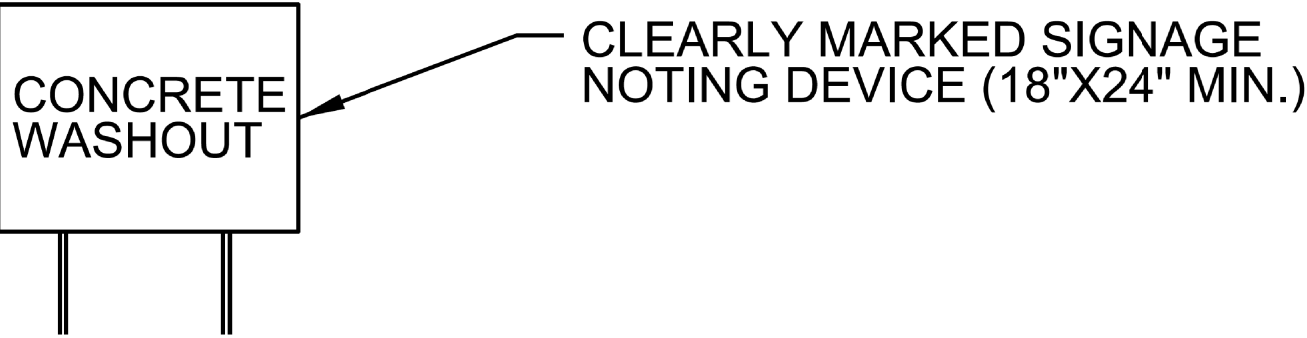
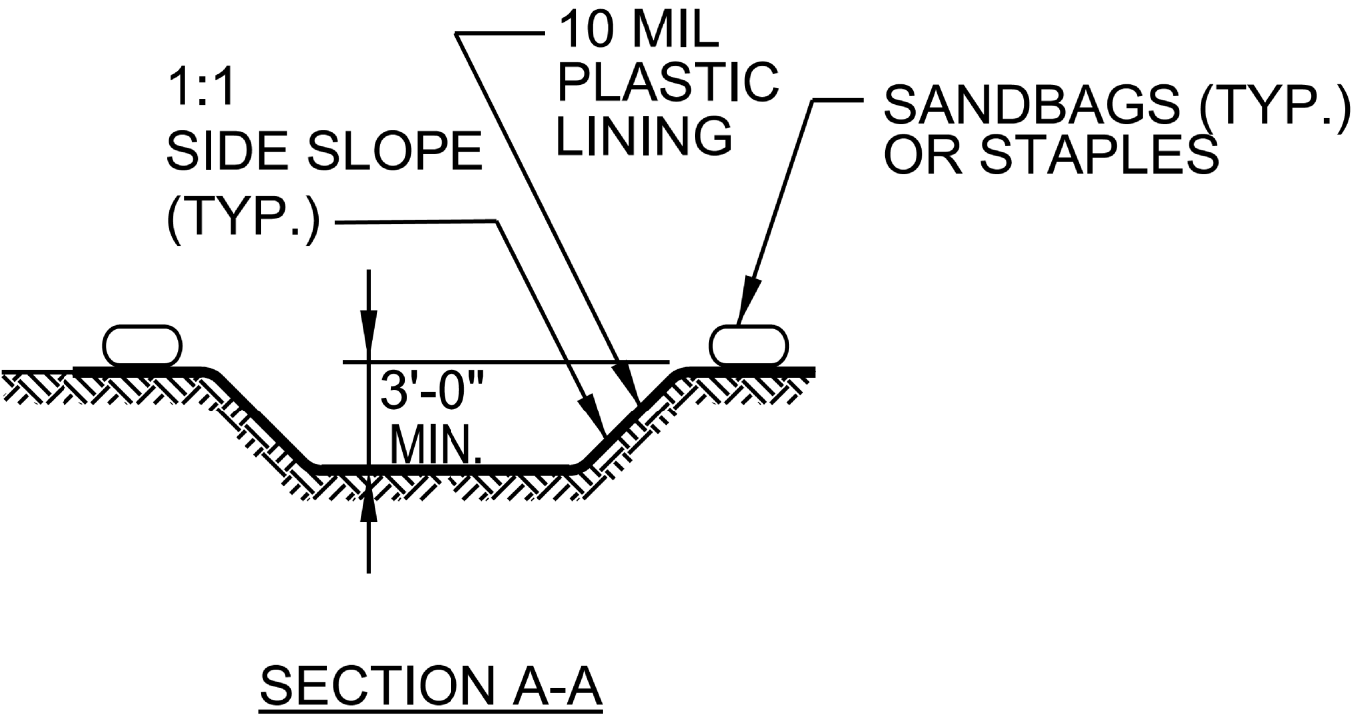
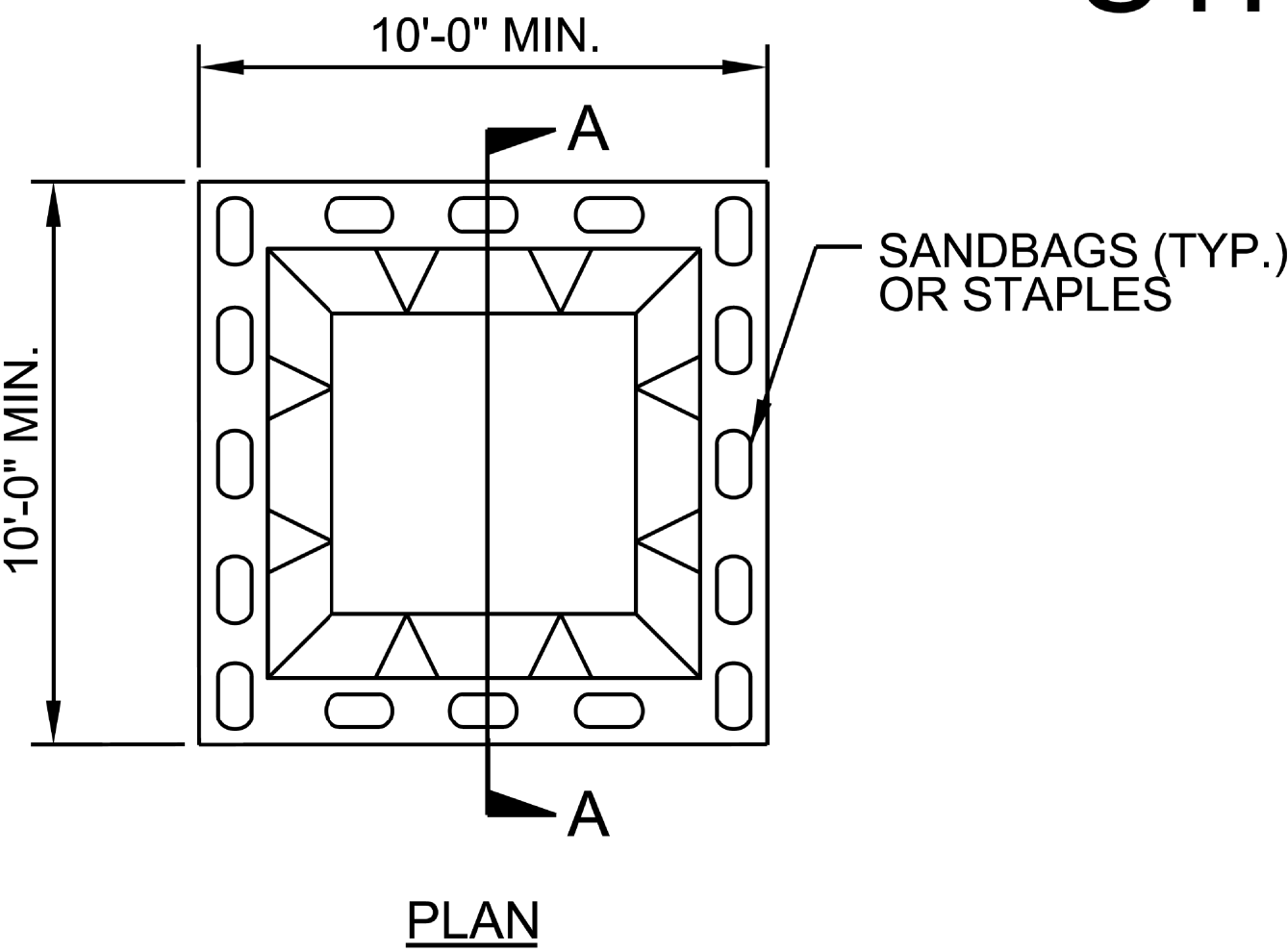
EROSION & SEDIMENT CONTROL LEGEND

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	

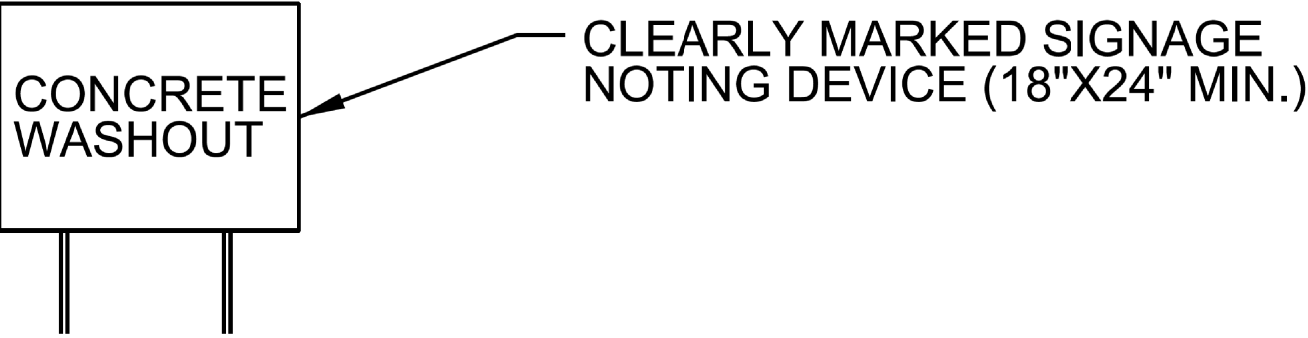
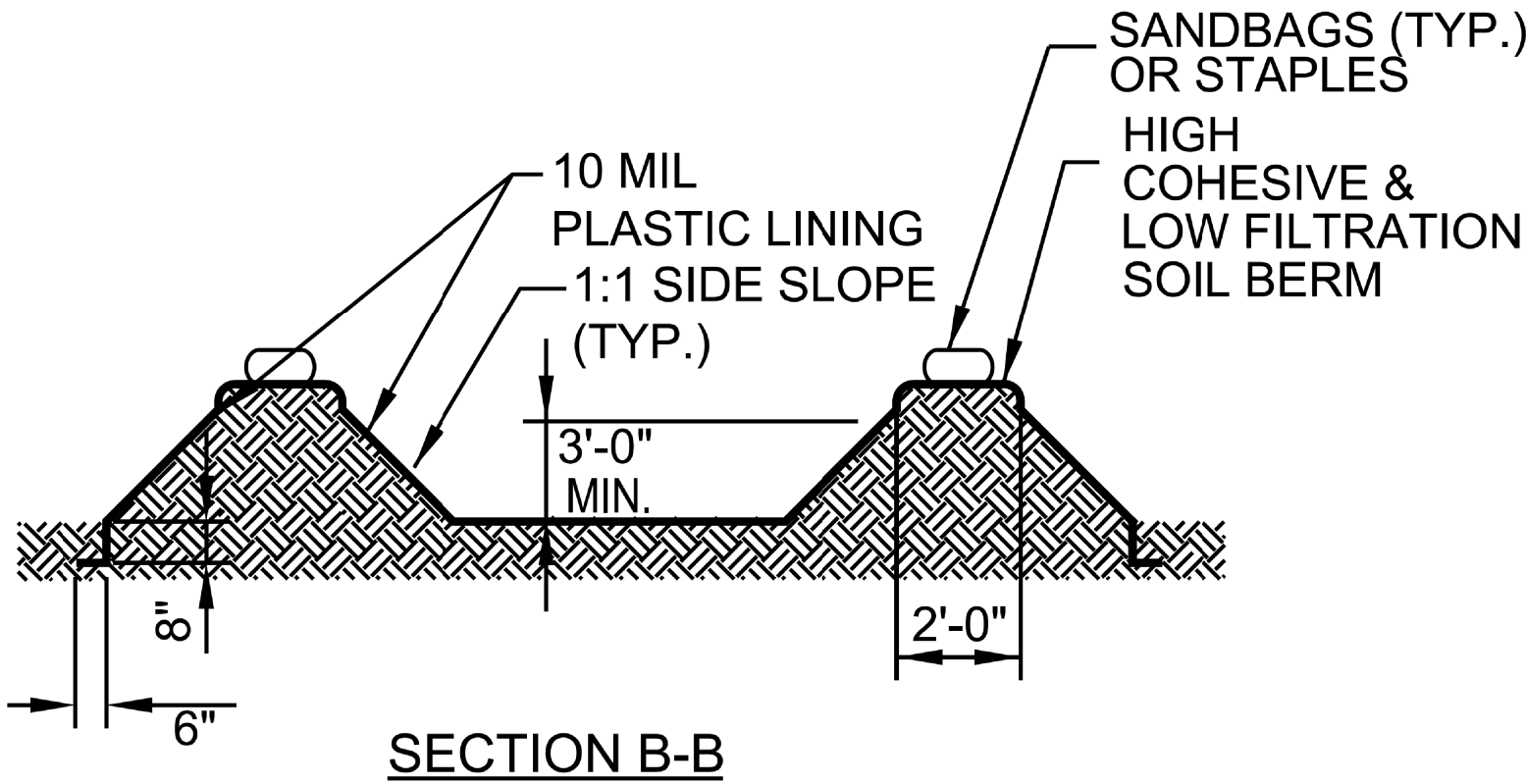
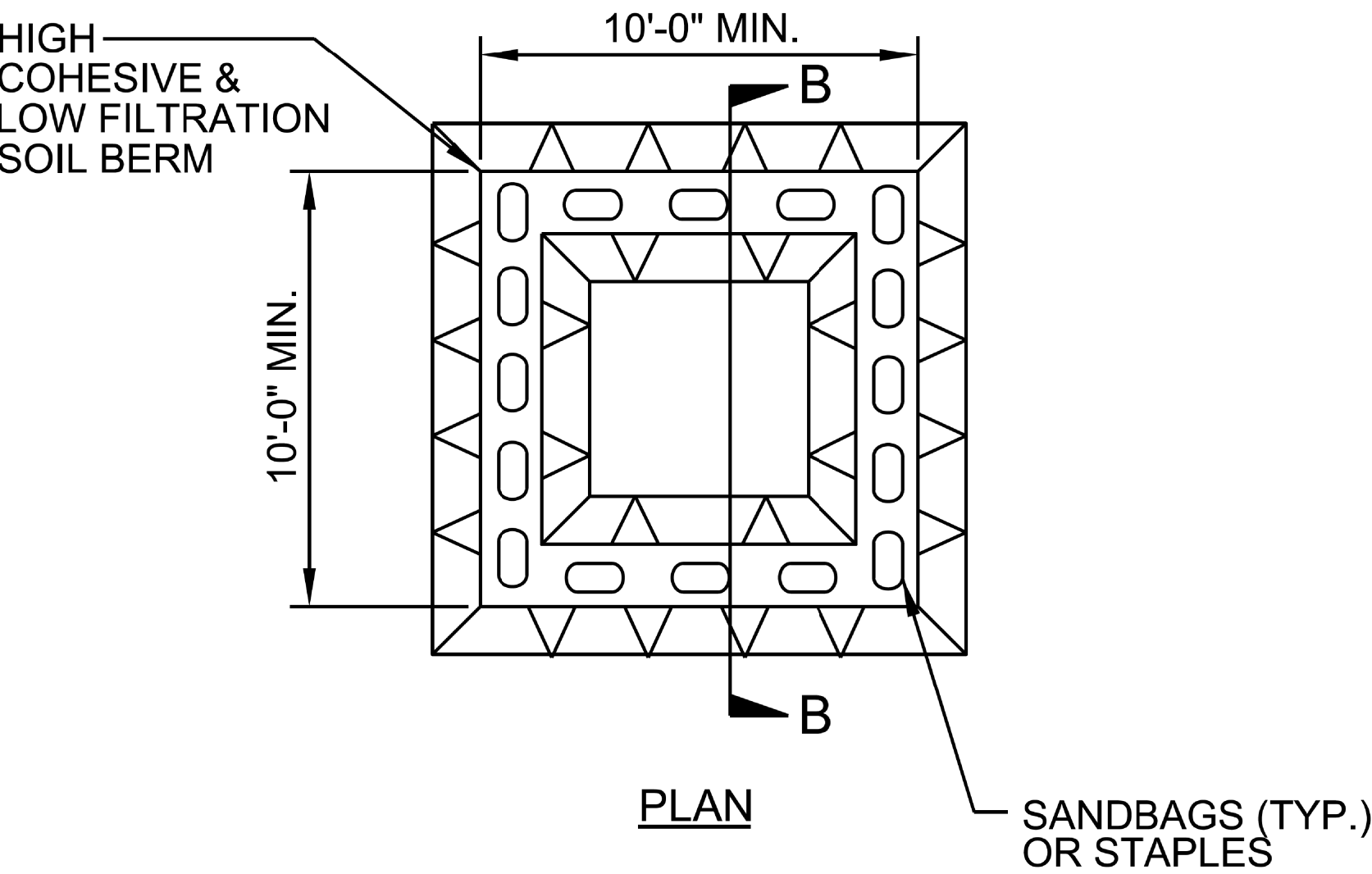
ONSITE CONCRETE WASHOUT
STRUCTURE WITH LINER

PROJECT REFERENCE NO.	SHEET NO.
1-5898	EC-2A
RW 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.

MATTING FOR EROSION CONTROL

PROJECT REFERENCE NO.	SHEET NO.
1-5898	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

[illegible]

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
1-5898	EC-3B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.		SHEET NO.
I-5898		EC-4/CONST.4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

BEGIN PROJECT TIP I-5898
-Y- NC 135 STA. 106+00.00

-Y-
PI Sta 112+91.11
 $\Delta = 17^{\circ} 42' 02.1''$ (LT)
 $D = 4' 05' 33.2''$
 $L = 432.51'$
 $T = 217.99'$
 $R = 1,400.00'$
 $e = 0.040$
 $RO = 168'$
 $DS = 40\text{mph}$

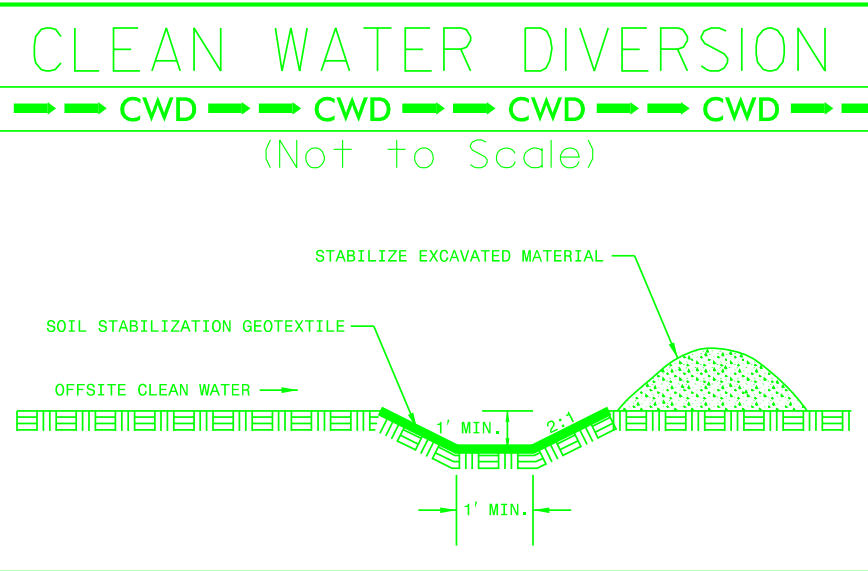
PI Sta 116+23.66
 $\Delta = 9^{\circ} 38' 17.5''$ (RT)
 $D = 4' 05' 33.2''$
 $L = 235.51'$
 $T = 118.03'$
 $R = 1,400.00'$
 $e = 0.040$
 $RO = 132'$
 $DS = 40\text{mph}$

-Y- NC 135/ US 311 POT STA 110+50.33
-Y2- SR 2177 (DAN VALLEY ROAD) POT STA. 10+00.00

-Y- NC 135/ US 311 POT STA 110+42.95
-Y2- SR 2177 (DAN VALLEY ROAD) POT STA. 10+29.02

END CONSTRUCTION
-Y2- POT STA. 11+25.00
RETAIN -2G1 & DO NOT DISTURB
AUTOZONE DEVELOPMENT

-Y2- POT STA. 13+30.27



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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS
DIRECTED BY ENGINEER IN LIEU OF ROCK INLET
SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING
RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

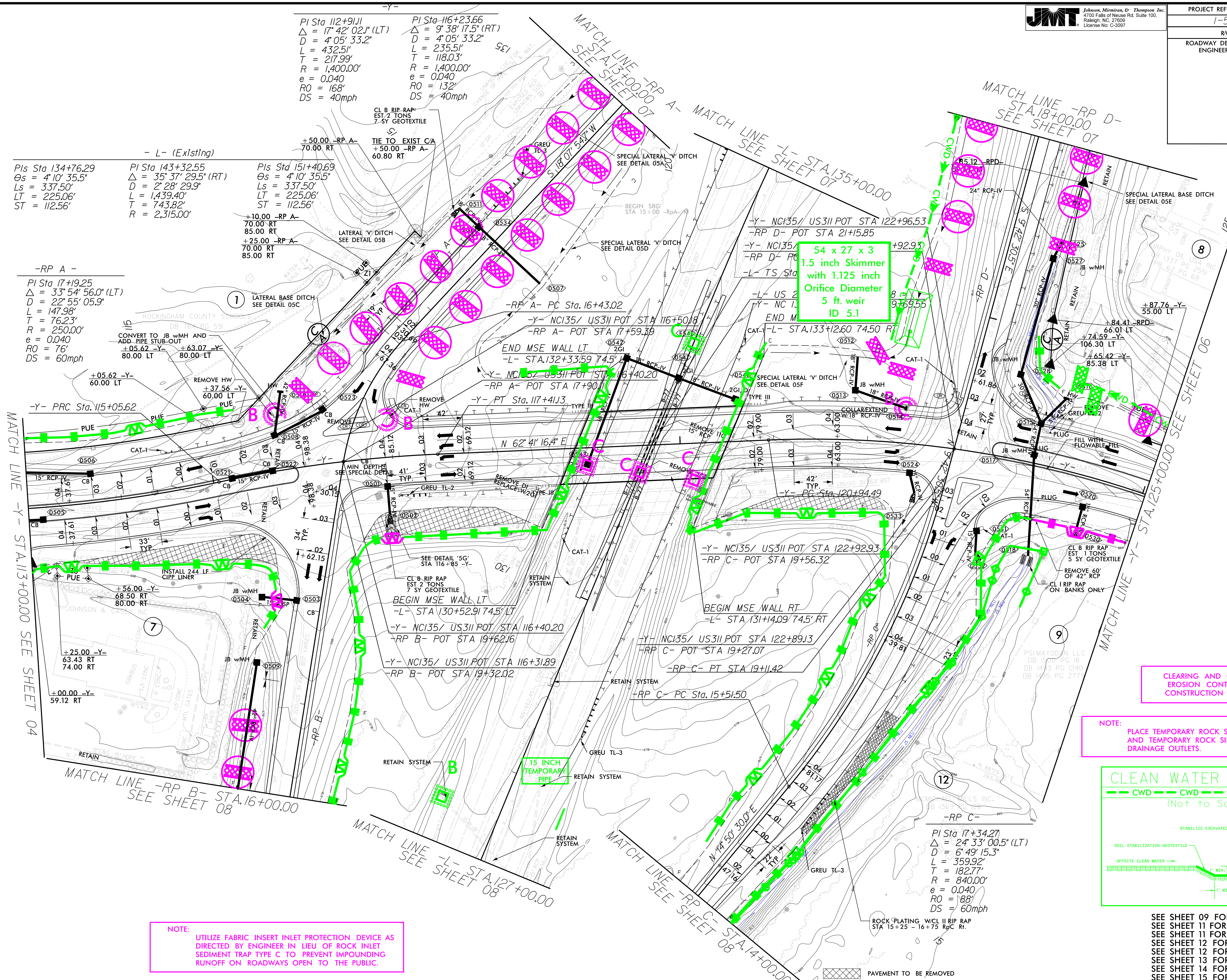
**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04**

SEE SHEET 09 FOR -Y- PROFILE
SEE SHEET 13 FOR -Y2- PROFILE

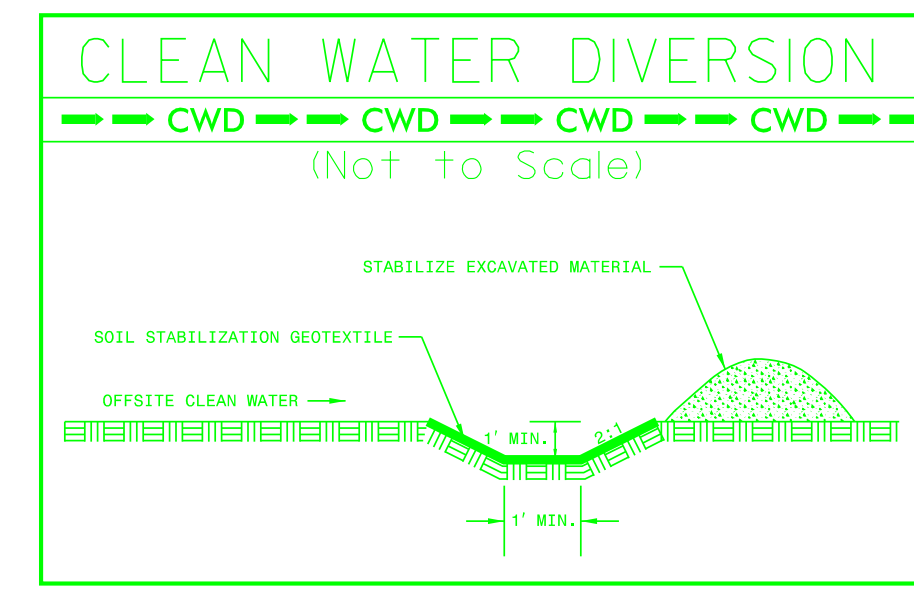
APPROX. VISUAL LOCATION
OF JUNCTION BOXES
54" RCP BENDS

REVISIONS

4/9/2025 11:34:10 AM
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NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.



```
SEE SHEET 09 FOR -Y- PROFILE
SEE SHEET 11 FOR -RPA- PROFILE
SEE SHEET 11 FOR -RPB- PROFILE
SEE SHEET 12 FOR -RPC- PROFILE
SEE SHEET 12 FOR -RPD- PROFILE
SEE SHEET 13 FOR -Y2- PROFILE
SEE SHEET 14 FOR -L1- PROFILE
SEE SHEET 15 FOR -WALL- PROFILE
```

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

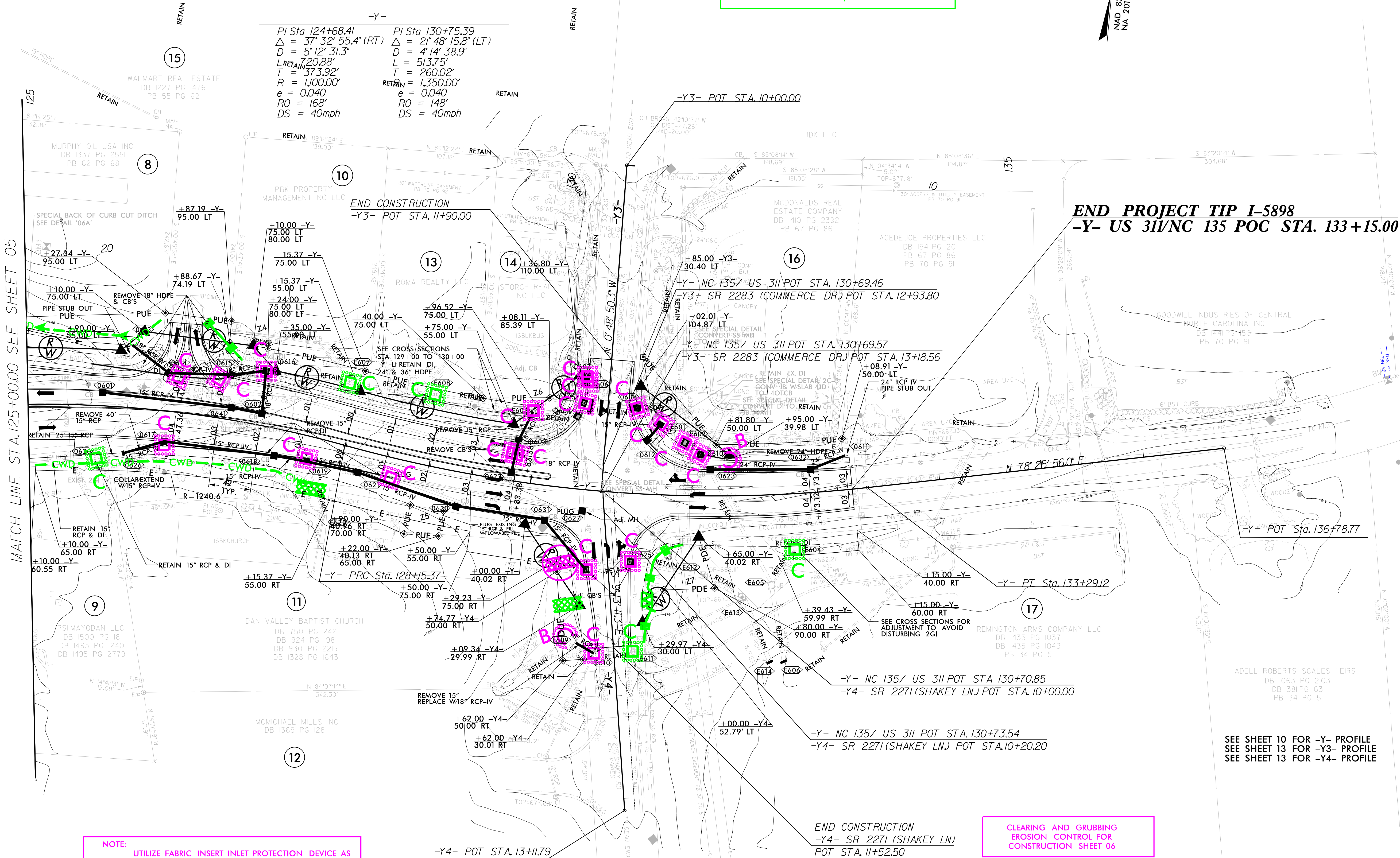
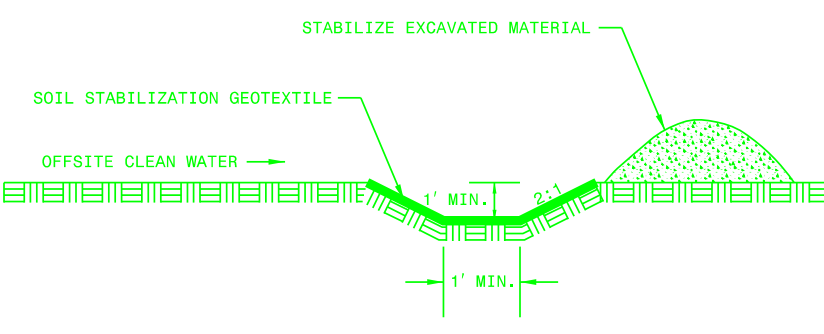
REVISIONS

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...\\C&G\\15898-EC_psh_05-EC05.dgn
User:osmith

PROJECT REFERENCE NO.		SHEET NO.
I-5898		EC-6/CONST.6
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

CLEAN WATER DIVERSION

--- CWD --- CWD --- CWD --- CWD ---
(Not to Scale)



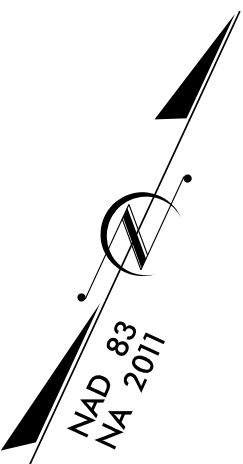
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

REVISIONS

PROJECT REFERENCE NO.		SHEET NO.
1-5898		EC-7/CONST.7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER



①
ROCKINGHAM COUNTY SCHOOLS
DB 764 PG 591

- L- (Existing)		
Pls Sta 134+76.29	Pls Sta 143+32.55	Pls Sta 151+40.69
$\Delta s = 4' 10' 35.5"$	$\Delta = 35' 37' 29.5" (RT)$	$\Delta s = 4' 10' 35.5"$
$Ls = 337.50'$	$D = 2' 28' 29.9"$	$Ls = 337.50'$
$LT = 225.06'$	$L = 1,439.40'$	$LT = 225.06'$
$ST = 112.56'$	$T = 743.82'$	$ST = 112.56'$
	$R = 2,315.00'$	

BEGIN CONSTRUCTION
-RP A- POT STA.10+00.00

BEGIN CONSTRUCTION
-RP D- POT STA.10+00.00

⑮
WALMART REAL ESTATE
DB 1227 PG 1476
PB 55 PG 62

-RP D-
Pls Sta 13+37.57
 $\Delta = 27' 06' 47.0" (LT)$
 $D = 4' 05' 33.2"$
 $L = 662.50'$
 $T = 337.57'$
 $R = 1,400.00'$
 $e = 0.060$
 $RO = 108'$
 $DS = 60mph$

-RD D- PT Sta. 16+62.50

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

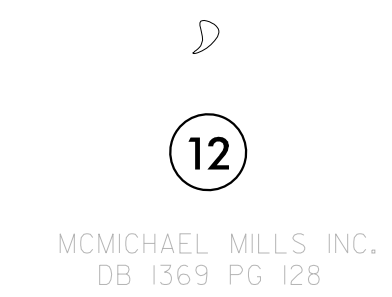
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS
DIRECTED BY ENGINEER IN LIEU OF ROCK INLET
SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING
RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

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

SEE SHEET 11 FOR -RPA- PROFILE
SEE SHEET 12 FOR -RPD- PROFILE
SEE SHEET 14 FOR -L- PROFILE

REVISIONS

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NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

$-Y-$	
<i>PI Sta 112+91.11</i>	<i>PI Sta 116+23.66</i>
$\Delta = 17^{\circ} 42' 02.1'' (LT)$	$\Delta = 9^{\circ} 38' 17.5'' (RT)$
$D = 4^{\circ} 05' 33.2''$	$D = 4^{\circ} 05' 33.2''$
$L = 432.51'$	$L = 235.51'$
$T = 217.99'$	$T = 118.03'$
$R = 1,400.00'$	$R = 1,400.00'$
$e = 0.040$	$e = 0.040$
$RO = 168'$	$RO = 132'$
$DS = 40mph$	$DS = 40mph$

-Y- NC 135/ US 311 POT STA 110+50.33
-Y2- SR 2177 (DAN VALLEY ROAD) POT STA. 10+00.00

+00.00 -Y-
40.00 LT
+00.00 -Y-
55.00 LT

$$\begin{array}{r} +00.00 \text{ } -Y- \\ \hline 40.00 \text{ } RT \end{array}$$

② ③ ④

-Y- NC 135/ US 311 POT STA 110+42.95

-Y2- SR 2177 (DAN VALLEY ROAD) POT STA. 10+29.02

-Y2- POT STA. 13+30.27

END CONSTRUCTION
-Y2- POT STA. 11+25.00
AIN 2GI & DO NOT DISTURB
AUTOZONE DEVELOPMENT

Plan view of the proposed road alignment. The alignment is shown as a black line with stationing from 0+00 to 0+13. A match line is indicated at station 0+13. The alignment passes through a 'RETAIL' area and a 'CONCRETE' area. A 'Y' label is present near the match line. The drawing is labeled 'SHEET 05' and 'SEE STA. 113+00.00'.



SEE SHEET 09 FOR -Y- PROFILE
SEE SHEET 13 FOR -Y2- PROFILE

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

Place Matting for Erosion Control
on Slope as Work Allows.
Y Sta. 111+50 to Sta. 113+00 LT.

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SEE SHEET 13 FOR -Y2- PROFILE
SEE SHEET 09 FOR -Y- PROFILE
SEE SHEET 11 FOR -RPA- PROFILE
SEE SHEET 11 FOR -RPB- PROFILE
SEE SHEET 12 FOR -RPC- PROFILE
SEE SHEET 12 FOR -RPD- PROFILE
SEE SHEET 14 FOR -L- PROFILE
SEE SHEET 15 FOR -WALL- PROFILE

PI Sta 112+91.11
 $\Delta = 17' 42" 02.1" (LT)$
 $D = 4' 05" 33.2"$
 $L = 432.51'$
 $T = 217.99'$
 $R = 1,400.00'$
 $e = 0.040$
 $RO = 168'$
 $DS = 40\text{mph}$

PI Sta 116+23.66
 $\Delta = 9' 38" 17.5" (RT)$
 $D = 4' 05" 33.2"$
 $L = 235.51'$
 $T = 118.03'$
 $R = 1,400.00'$
 $e = 0.040$
 $RO = 132'$
 $DS = 40\text{mph}$

- L- (Existing)
PIs Sta 134+76.29
 $\Delta = 4' 10" 35.5"$
 $Ls = 337.50'$
 $LT = 225.06'$
 $ST = 112.56'$

PI Sta 143+32.55
 $\Delta = 35' 37" 29.5" (RT)$
 $Ls = 337.50'$
 $L = 1,439.40'$
 $T = 743.82'$
 $R = 2,315.00'$

-RP A-
PI Sta 17+9.25
 $\Delta = 33' 54" 56.0" (LT)$
 $D = 22' 55" 05.9"$
 $L = 147.98'$
 $T = 76.23'$
 $R = 250.00'$
 $e = 0.040$
 $RO = 76'$
 $DS = 60\text{mph}$

-Y- PRC Sta. 115+05.62

CONVERT TO JB wMH AND
ADD PIPE STUB-OUT
+05.62 -Y- +63.07 -Y-
80.00 LT 80.00 LT

REMOVE HW
+37.56 -Y-
60.00 LT

INSTALL 24" LF
CIPP LINER

+56.00 -Y-
68.50 RT
80.00 RT

+25.00 -Y-
63.43 RT
74.00 RT

+00.00 -Y-
59.12 RT

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1

LATERAL BASE DITCH
SEE DETAIL 05C

REMOVE HW
+37.56 -Y-
60.00 LT

INSTALL 24" LF
CIPP LINER

+56.00 -Y-
68.50 RT
80.00 RT

+25.00 -Y-
63.43 RT
74.00 RT

+00.00 -Y-
59.12 RT

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2

LATERAL BASE DITCH
SEE DETAIL 05C

REMOVE HW
+37.56 -Y-
60.00 LT

INSTALL 24" LF
CIPP LINER

+56.00 -Y-
68.50 RT
80.00 RT

+25.00 -Y-
63.43 RT
74.00 RT

+00.00 -Y-
59.12 RT

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3

LATERAL BASE DITCH
SEE DETAIL 05C

REMOVE HW
+37.56 -Y-
60.00 LT

INSTALL 24" LF
CIPP LINER

+56.00 -Y-
68.50 RT
80.00 RT

+25.00 -Y-
63.43 RT
74.00 RT

+00.00 -Y-
59.12 RT

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4

LATERAL BASE DITCH
SEE DETAIL 05C

REMOVE HW
+37.56 -Y-
60.00 LT

INSTALL 24" LF
CIPP LINER

+56.00 -Y-
68.50 RT
80.00 RT

+25.00 -Y-
63.43 RT
74.00 RT

+00.00 -Y-
59.12 RT

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5

LATERAL BASE DITCH
SEE DETAIL 05C

REMOVE HW
+37.56 -Y-
60.00 LT

INSTALL 24" LF
CIPP LINER

+56.00 -Y-
68.50 RT
80.00 RT

+25.00 -Y-
63.43 RT
74.00 RT

+00.00 -Y-
59.12 RT

RETAIN

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6

LATERAL BASE DITCH
SEE DETAIL 05C

REMOVE HW
+37.56 -Y-
60.00 LT

INSTALL 24" LF
CIPP LINER

+56.00 -Y-
68.50 RT
80.00 RT

+25.00 -Y-
63.43 RT
74.00 RT

+00.00 -Y-
59.12 RT

CLEAN WATER DIVERSION

— CWD — CWD — CWD — CWD —

(Not to Scale)

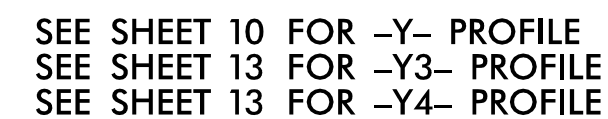
STABILIZE EXCAVATED MATERIAL

SOIL STABILIZATION GEOTEXTILE

OFFSITE CLEAN WATER

1' MIN.

2' MIN.



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PROJECT REFERENCE NO.		SHEET NO.
1-5898		EC-12/CONST.7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

- L- (Existing)		
Pls Sta 134+76.29	Pls Sta 143+32.55	Pls Sta 151+40.69
$\Delta s = 4' 10' 35.5"$	$\Delta = 35' 37' 29.5" (RT)$	$\Delta s = 4' 10' 35.5"$
$Ls = 337.50'$	$D = 2' 28' 29.9"$	$Ls = 337.50'$
$LT = 225.06'$	$L = 1,439.40'$	$LT = 225.06'$
$ST = 112.56'$	$T = 743.82'$	$ST = 112.56'$
	$R = 2,315.00'$	

BEGIN CONSTRUCTION
-RP A- POT STA.10+00.00

BEGIN CONSTRUCTION
-RP D- POT STA.10+00.00

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WALMART REAL ESTATE
DB 1227 PG 1476
PB 55 PG 62

-RP D-
Pls Sta 13+37.57
 $\Delta = 27' 06' 47.0" (LT)$
 $D = 4' 05' 33.2"$
 $L = 662.50'$
 $T = 337.57'$
 $R = 1,400.00'$
 $e = 0.060$
 $RO = 108'$
 $DS = 60mph$

-RD D- PT Sta. 16+62.50

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

Place Matting for Erosion Control
on Slope as Work Allows.
RPD Sta. 12+50 to Sta. 18+00 LT.

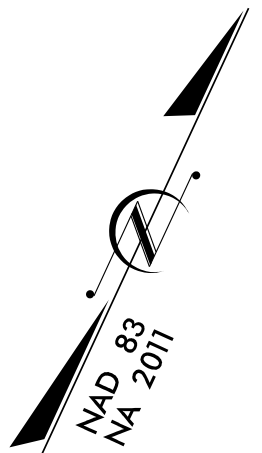
Place Matting for Erosion Control
on Slope as Work Allows.
RPD Sta. 13+50 to Sta. 14+50 RT.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS
DIRECTED BY ENGINEER IN LIEU OF ROCK INLET
SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING
RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

SEE SHEET 11 FOR -RPA- PROFILE
SEE SHEET 12 FOR -RPD- PROFILE
SEE SHEET 14 FOR -L- PROFILE

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User: jmt

PROJECT REFERENCE NO.		SHEET NO.
I-5898		EC-13/CONST.B
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER



12

MCMICHAEL MILLS, INC.
DB 1369 PG 128

N 68°24'09" E
703.50'

SEE SHEET 11 FOR -RPB- PROFILE
SEE SHEET 12 FOR -RPC- PROFILE
SEE SHEET 14 FOR -L- PROFILE

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

REVISIONS

4/9/2025 3:10:06 PM
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JMT

