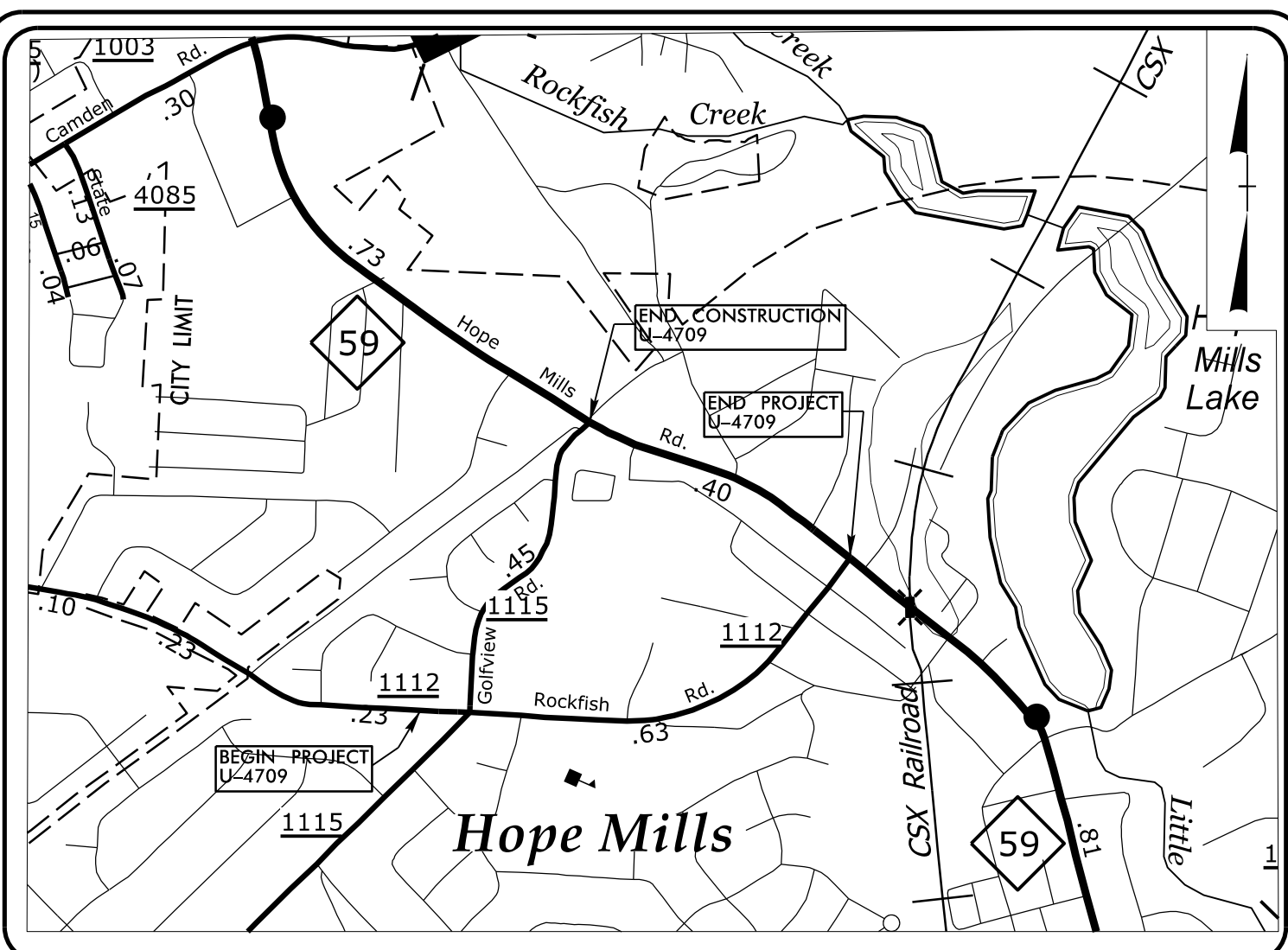


TIP PROJECT: U-4709



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

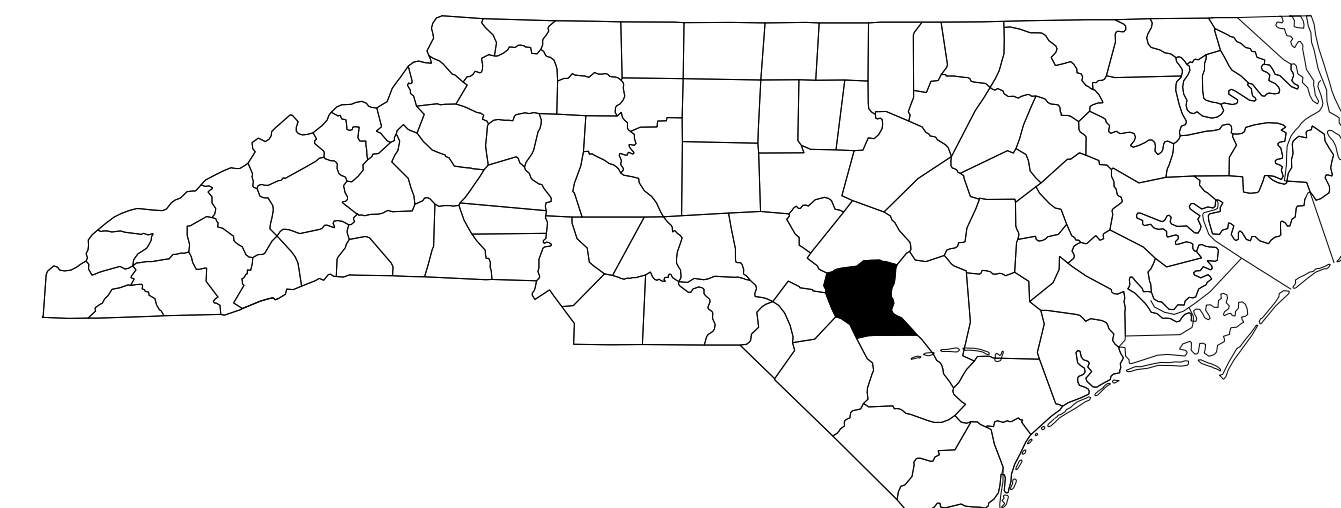
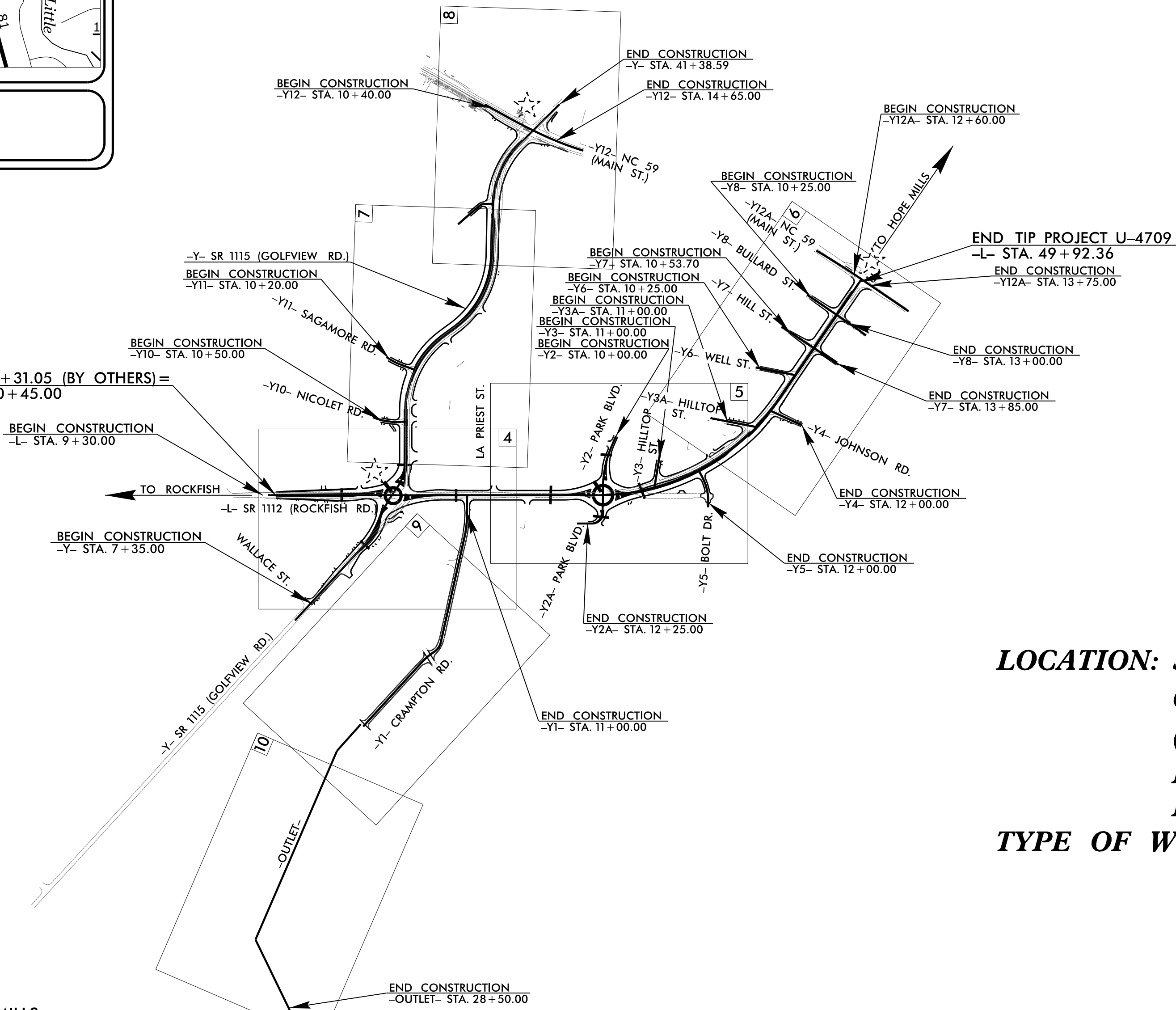
CUMBERLAND COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4709	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
39073.1.1	N/A	PE	
39073.2.1	N/A	RW & UTILITIES	
39073.3.1	N/A	CONST.	

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



END TIP PROJECT U-6072B -L- STA. 81+31.05 (BY OTHERS)=
BEGIN TIP PROJECT U-4709 -L- STA. 10+45.00



**LOCATION: SR 1112 (ROCKFISH ROAD) FROM WEST
OF SR 1115 (GOLFVIEW ROAD) TO NC 59
(MAIN STREET) AND SR 1115 (GOLFVIEW
ROAD) FROM SR 1112 (ROCKFISH
ROAD) TO NC 59 (MAIN STREET)**
TYPE OF WORK: GRADING, DRAINAGE, AND PAVING.

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF HOPE MILLS.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

GRAPHIC SCALES



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.



1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9591
License: F-0453

Prepared in the Office of:

TranSystems
1 Glenwood Avenue
Suite 600
Raleigh, NC 27603

Designed by:

J. Taylor Williams
NAME

4029
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.

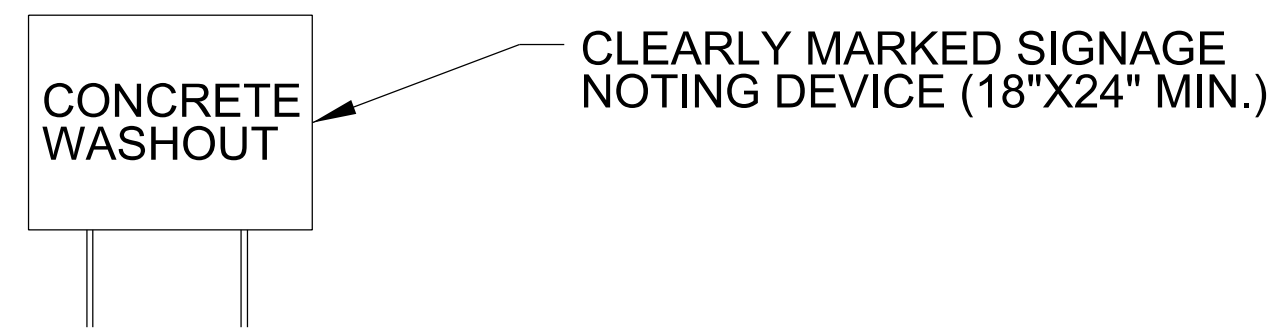
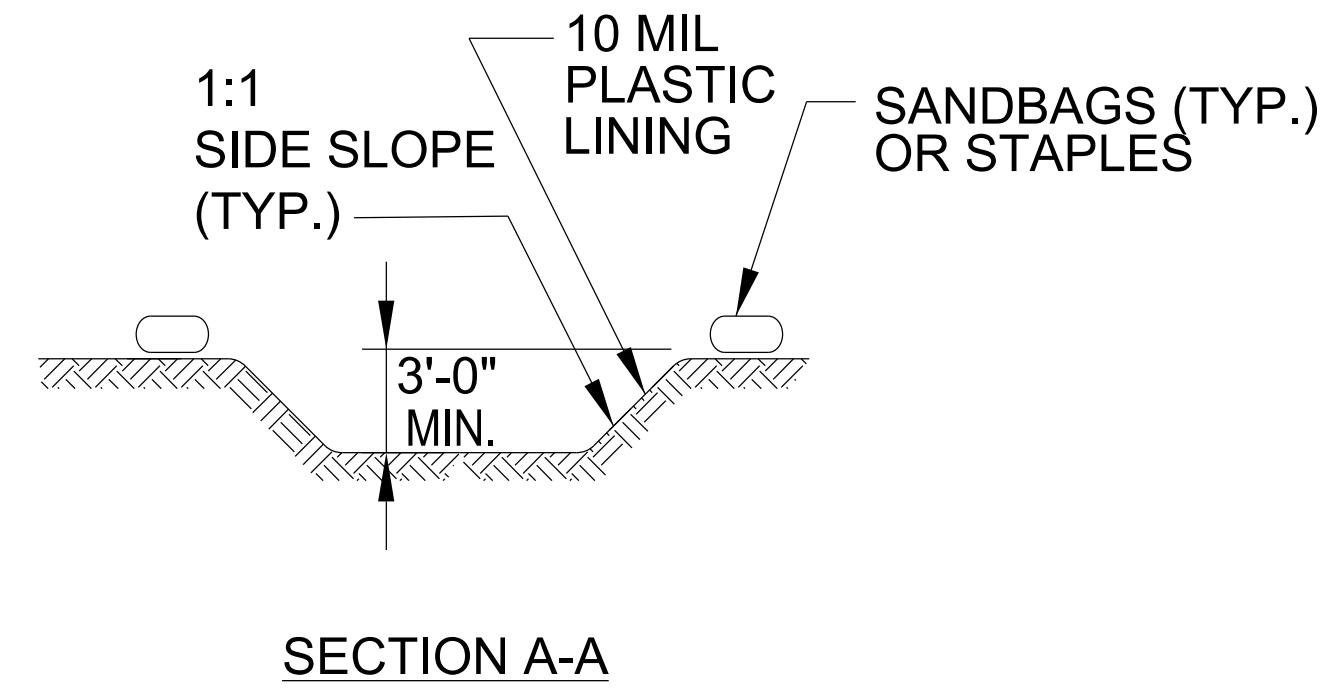
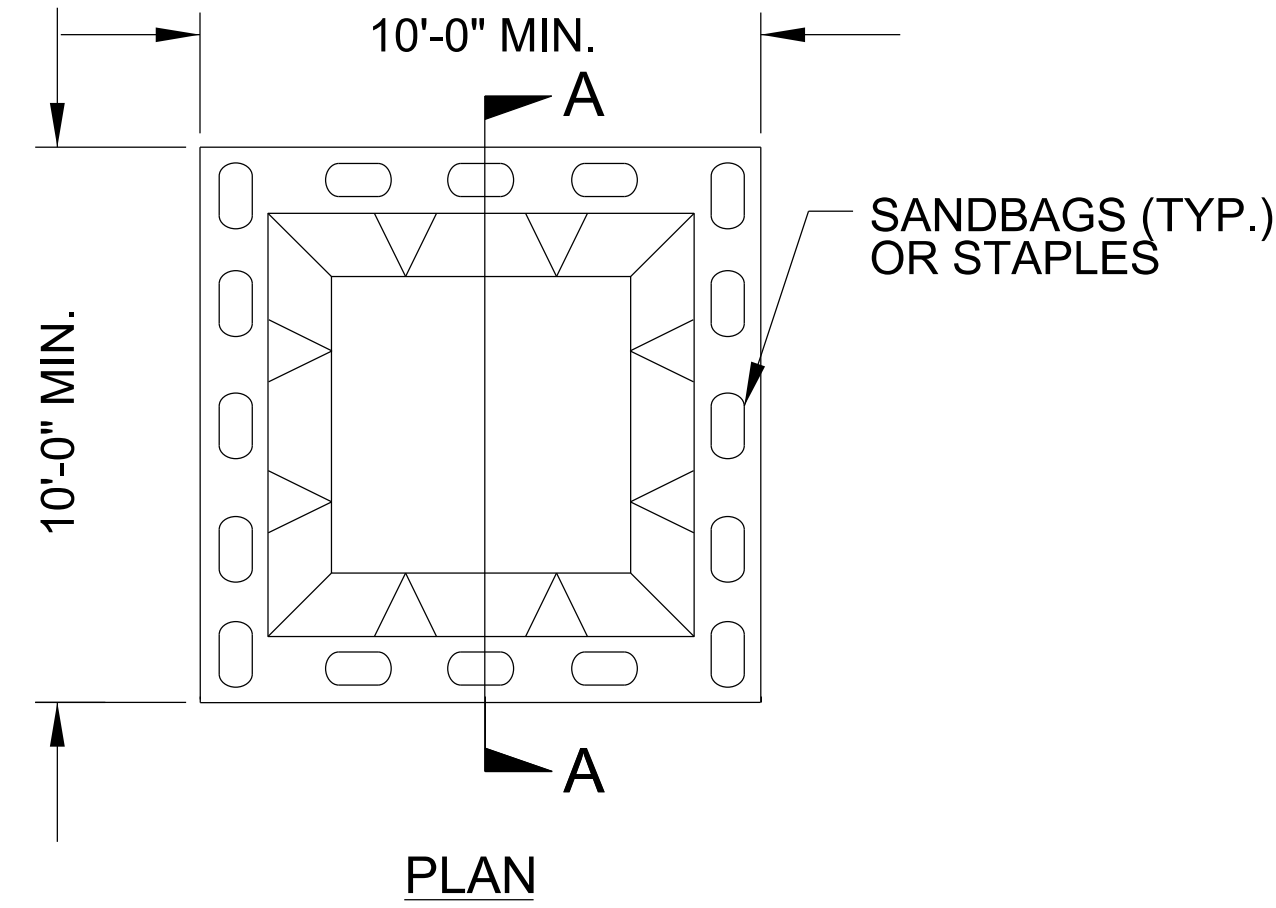
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	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		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

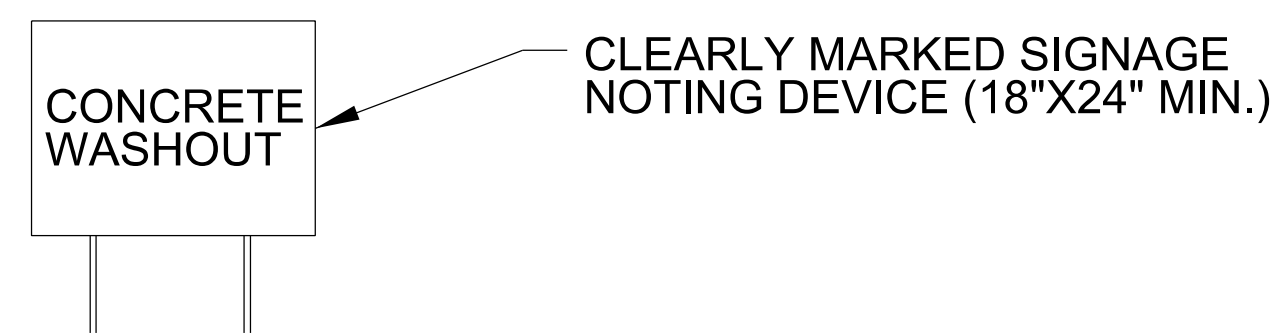
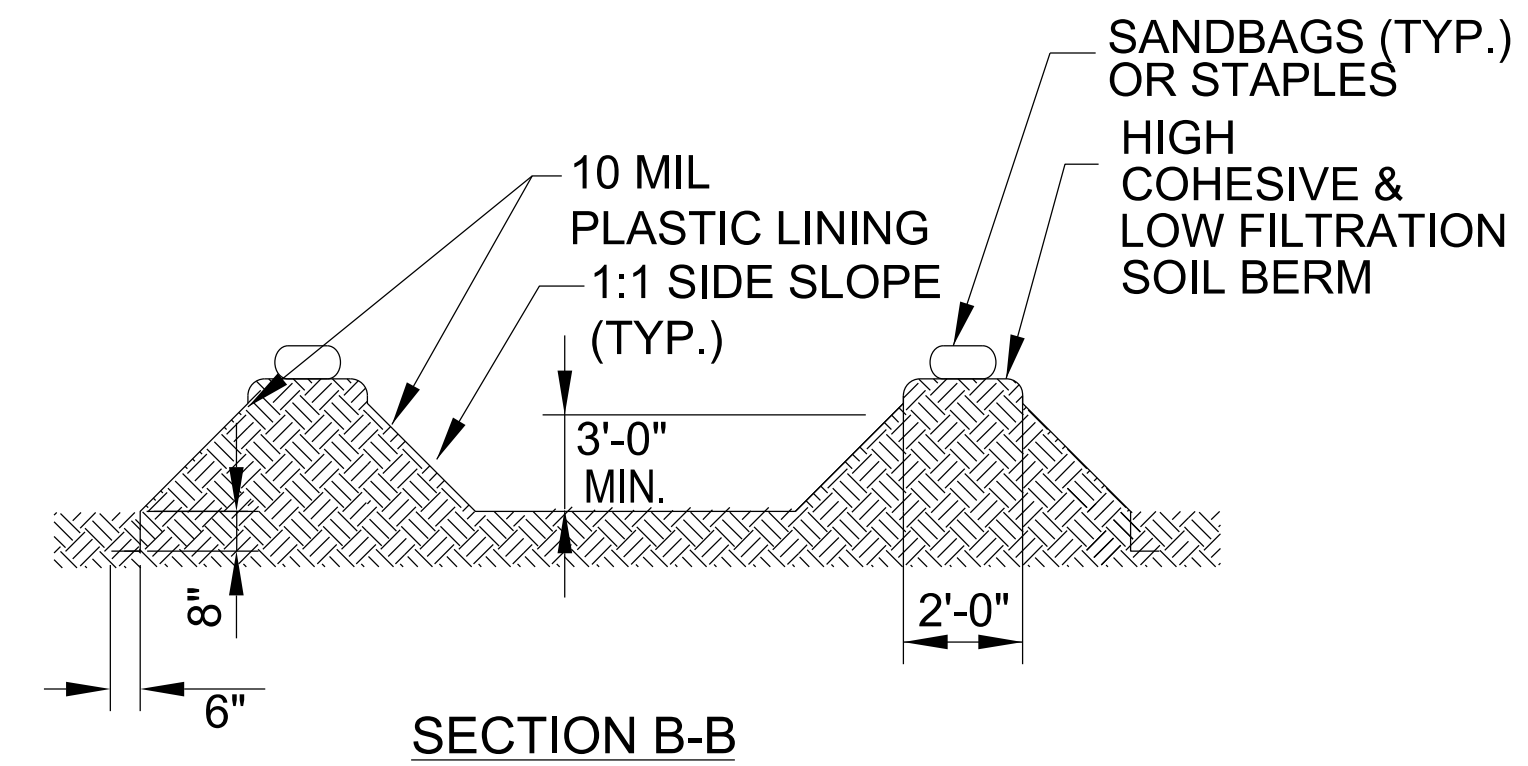
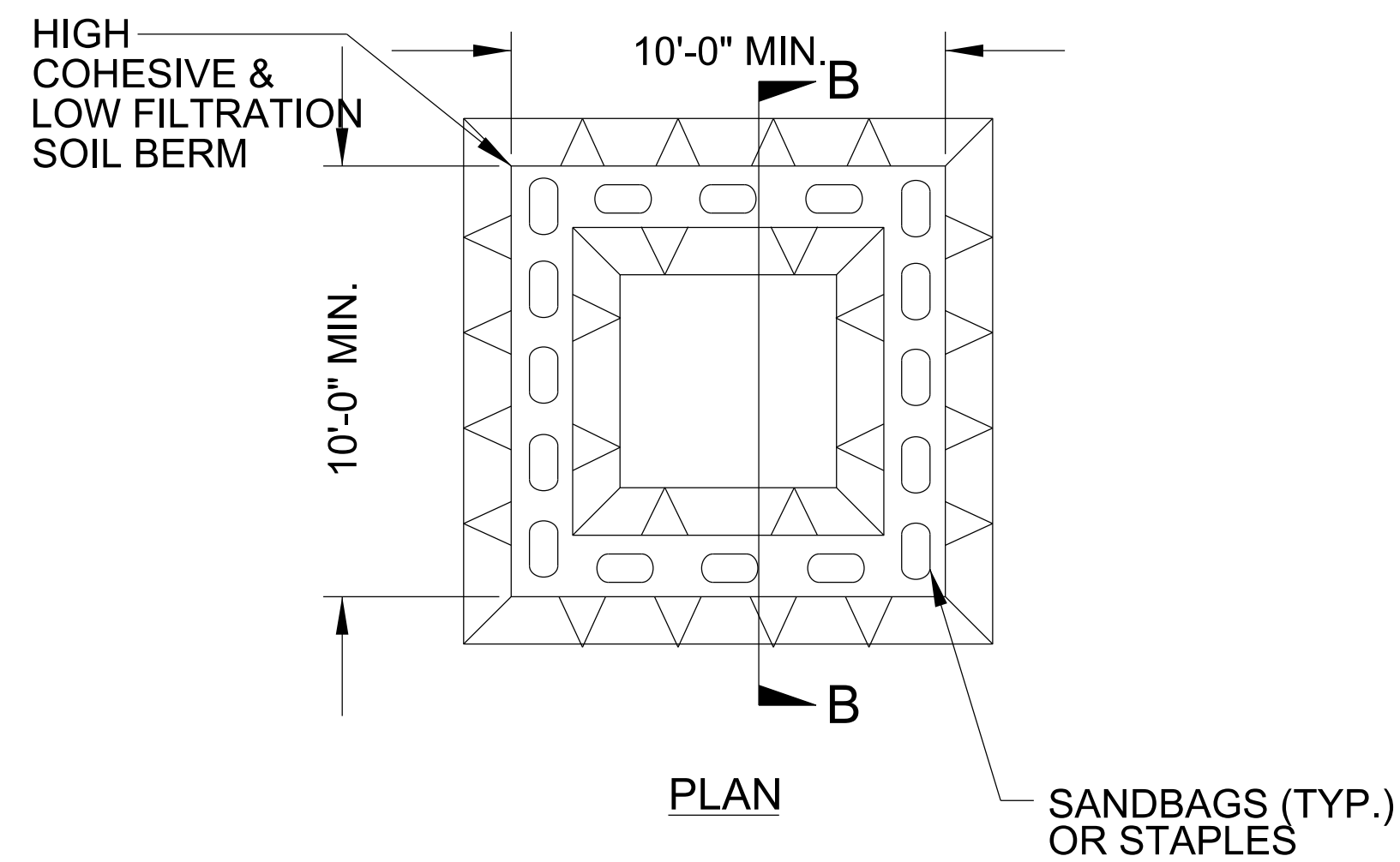
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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.

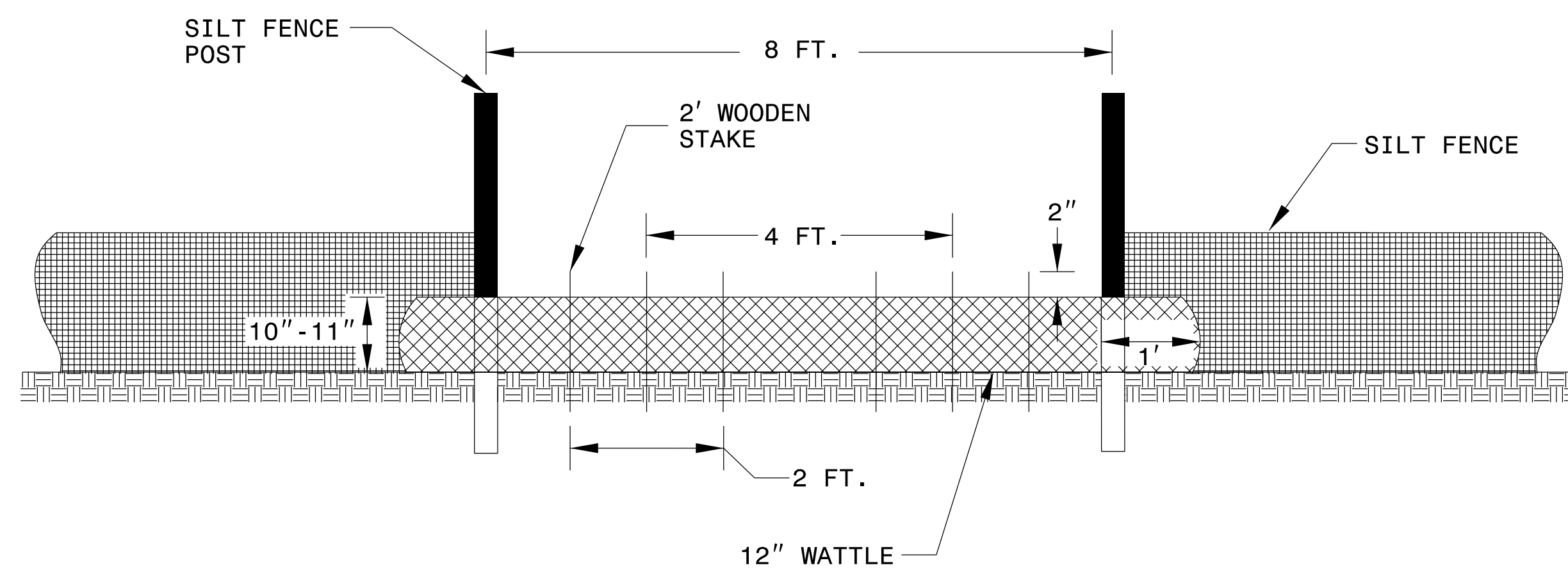
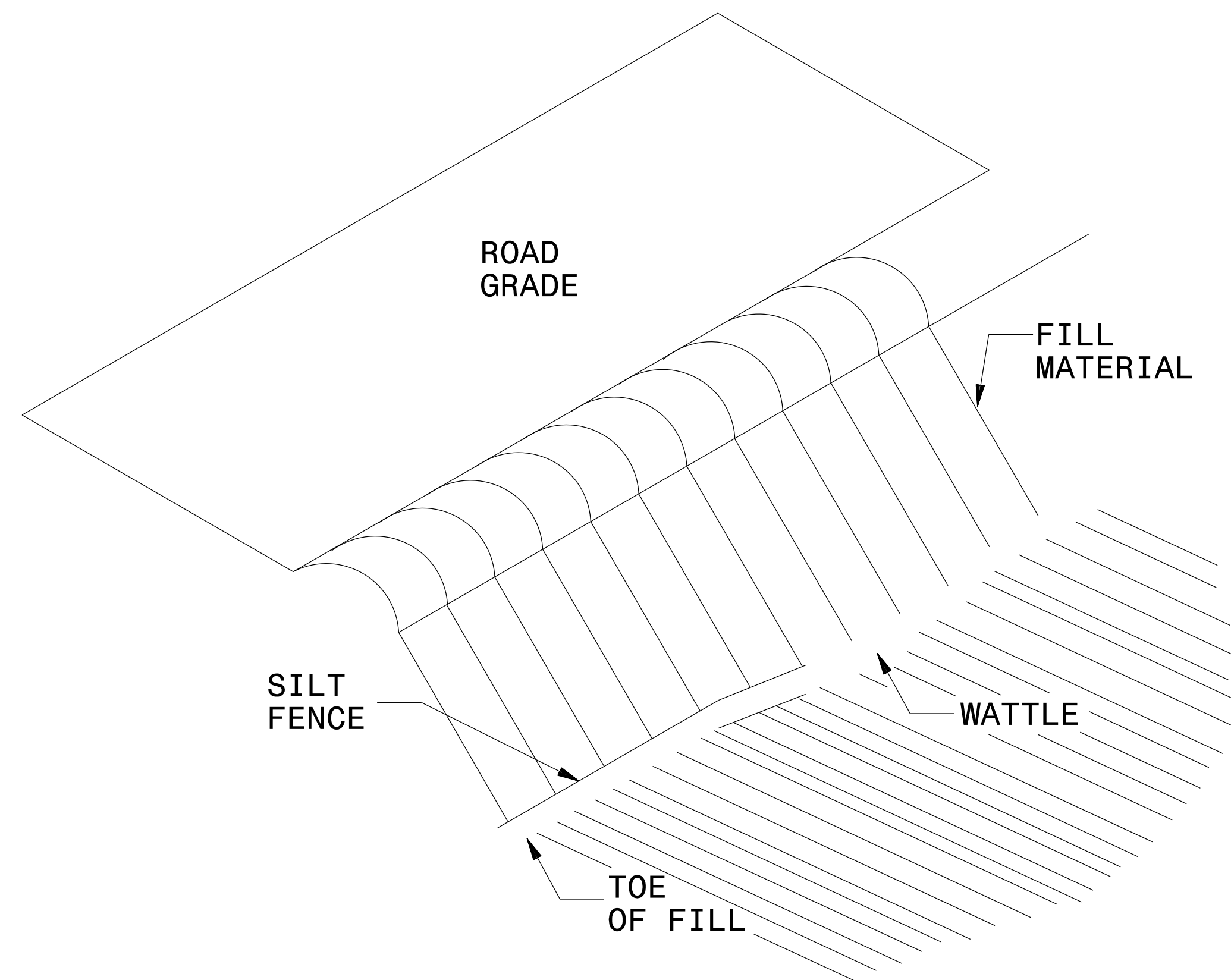


ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

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.

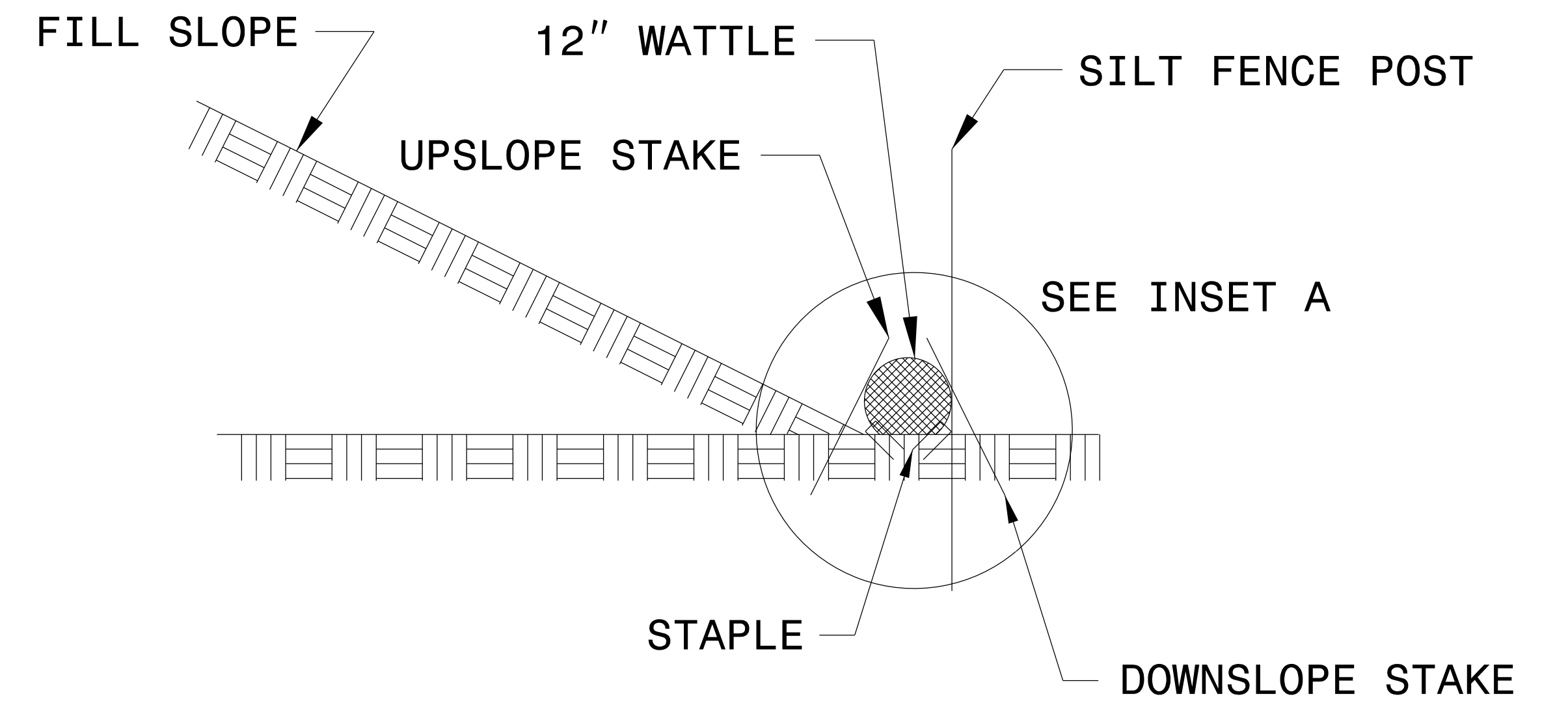
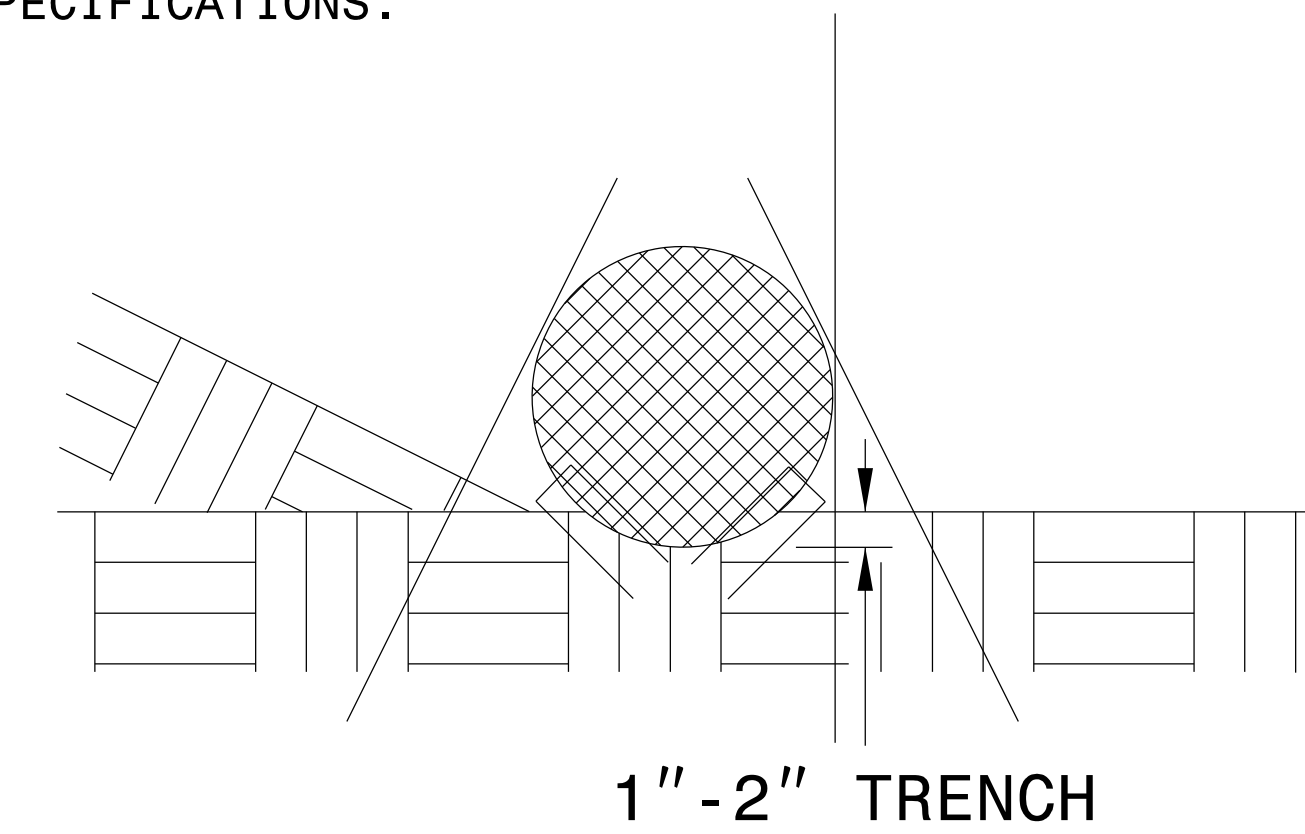
SILT FENCE COIR FIBER WATTLE BREAK DETAIL



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 11 GAUGE STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" 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



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 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

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
	DITCH LINE				
4	-L-	10+00	11+45	LT	245
4	-L-	11+45	14+50	LT	515
6	-Y7-	10+75	11+50	RT	100
	FILL SLOPES				
4	-L-	18+50	21+50	LT	255
5	-L-	34+50	38+00	RT	1095
6	-L-	38+00	39+50	RT	395
4	-Y-	18+00	18+40	RT	50
4	-Y-	18+40	20+50	RT	220
5	-Y5-	10+50	11+00	LT	130
			SUBTOTAL		3005
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				7735
			TOTAL		10740
			SAY		11000

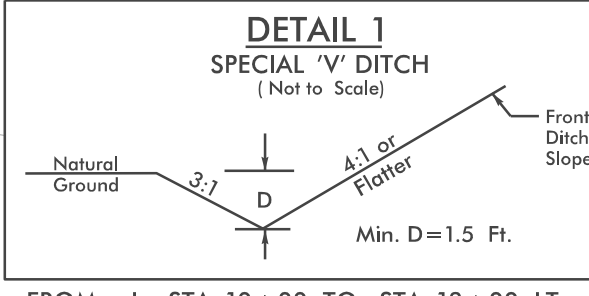
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
	SIDE SLOPES				
10	-OUTLET-	27+00	28+09	CL	485 (TYPE 3)
			SUBTOTAL		485 (TYPE 3)
			TOTAL		485 (TYPE 3)
			SAY		500 (TYPE 3)

8/17/99

I:\05\2024\REU-EC-3A.MAT.dgn
 11/18/2024 11:11:11 AM

8/17/99

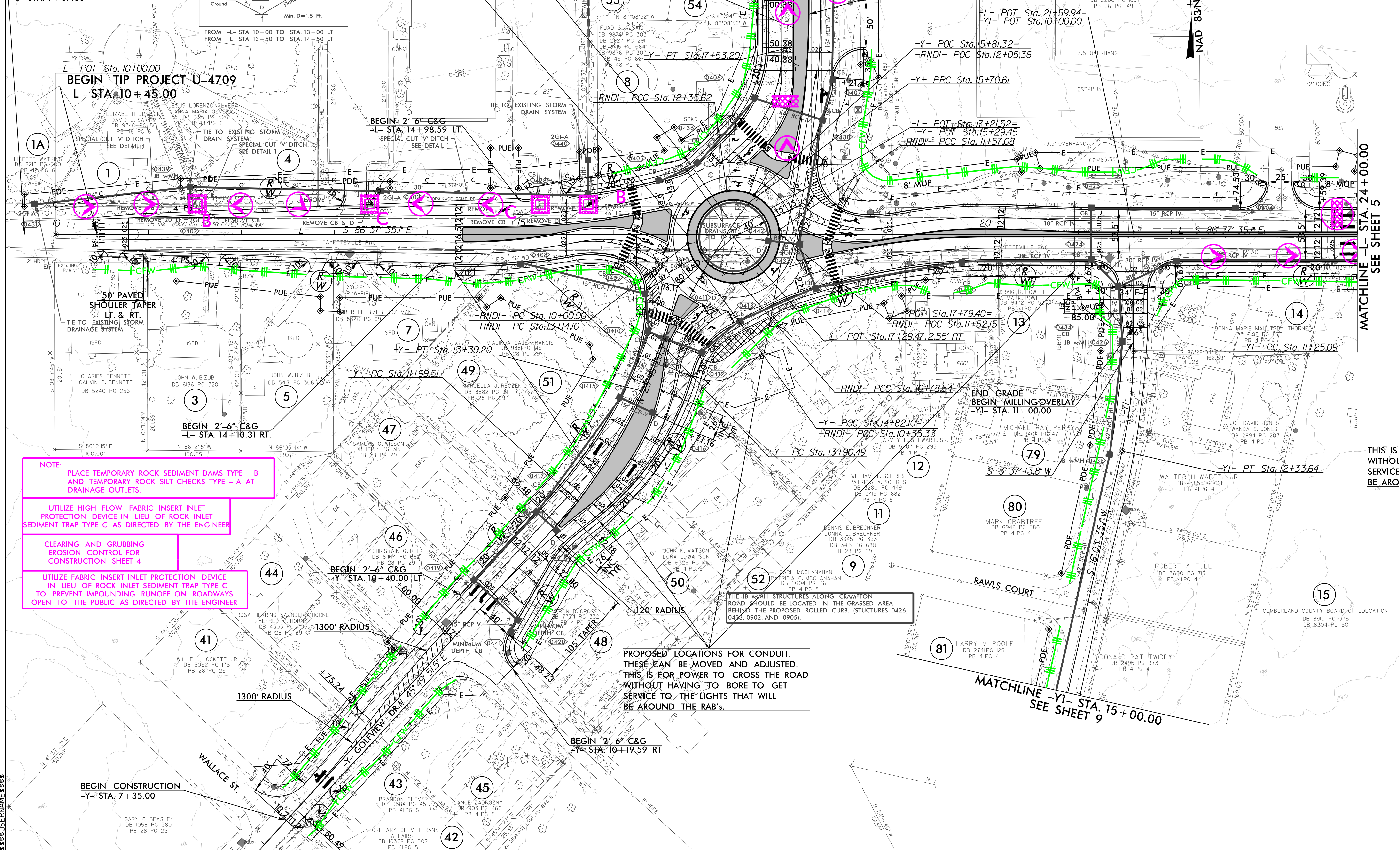
NOTE: ALL CONDUITS NEED TO BE 4" PIPE WITH 90 DEGREE ELBOWS COMING OUT OF THE GROUND.
 BEGIN CONSTRUCTION
 -L- STA. 9+67.00



2-4" CONDUITS FOR WATER AND POWER
 -L- POT Sta.16+79.53=
 -RNDI- POC Sta.13+04.13

MATCHLINE -Y- STA. 18+40.00
 SEE SHEET 7

EMERGENCY VEHICLE ACCESS
 SEE DETAIL SHEET 2C-2



-L- POT Sta.10+00.00
 BEGIN TIP PROJECT U-4709
 -L- STA.10+45.00

BEGIN 2'-6" C&G
 -L- STA.14+98.59 LT.

50' PAVED SHOULDER TAPER LT. & RT.
 TIE TO EXISTING STORM DRAINAGE SYSTEM

BEGIN 2'-6" C&G
 -L- STA.14+10.31 RT.

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

UTILIZE HIGH FLOW FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

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

PROPOSED LOCATIONS FOR CONDUIT. THESE CAN BE MOVED AND ADJUSTED. THIS IS FOR POWER TO CROSS THE ROAD WITHOUT HAVING TO BORE TO GET SERVICE TO THE LIGHTS THAT WILL BE AROUND THE RAB'S.

BEGIN CONSTRUCTION
 -Y- STA. 7+35.00

BEGIN 2'-6" C&G
 -Y- STA.10+19.59 RT

MATCHLINE -Y1- STA. 15+00.00
 SEE SHEET 9

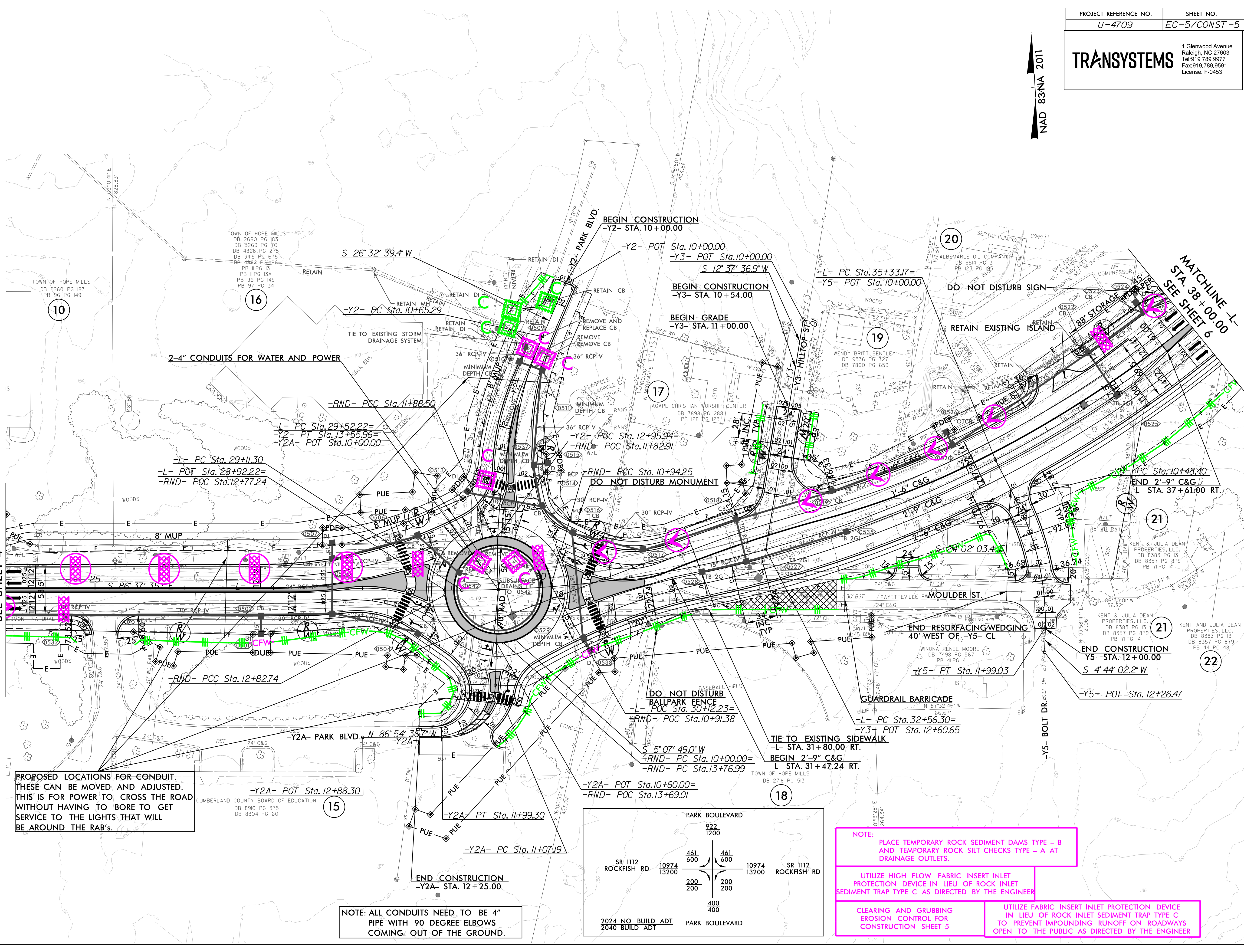
MATCHLINE -L- STA. 24+00.00
 SEE SHEET 5

THIS IS WITHOUT SERVICE BE ARO

NAD 83 NA 2011

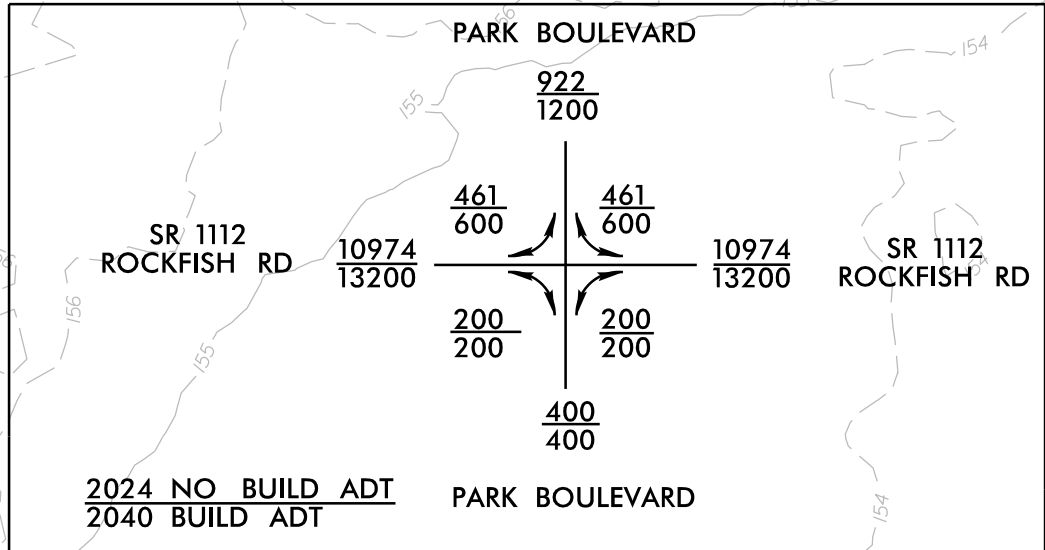
MATCHLINE -L- STA. 24 + 00.00
SEE SHEET 4

MATCHLINE -L- STA. 38 + 00.00
SEE SHEET 6



PROPOSED LOCATIONS FOR CONDUIT. THESE CAN BE MOVED AND ADJUSTED. THIS IS FOR POWER TO CROSS THE ROAD WITHOUT HAVING TO BORE TO GET SERVICE TO THE LIGHTS THAT WILL BE AROUND THE RAB'S.

NOTE: ALL CONDUITS NEED TO BE 4" PIPE WITH 90 DEGREE ELBOWS COMING OUT OF THE GROUND.



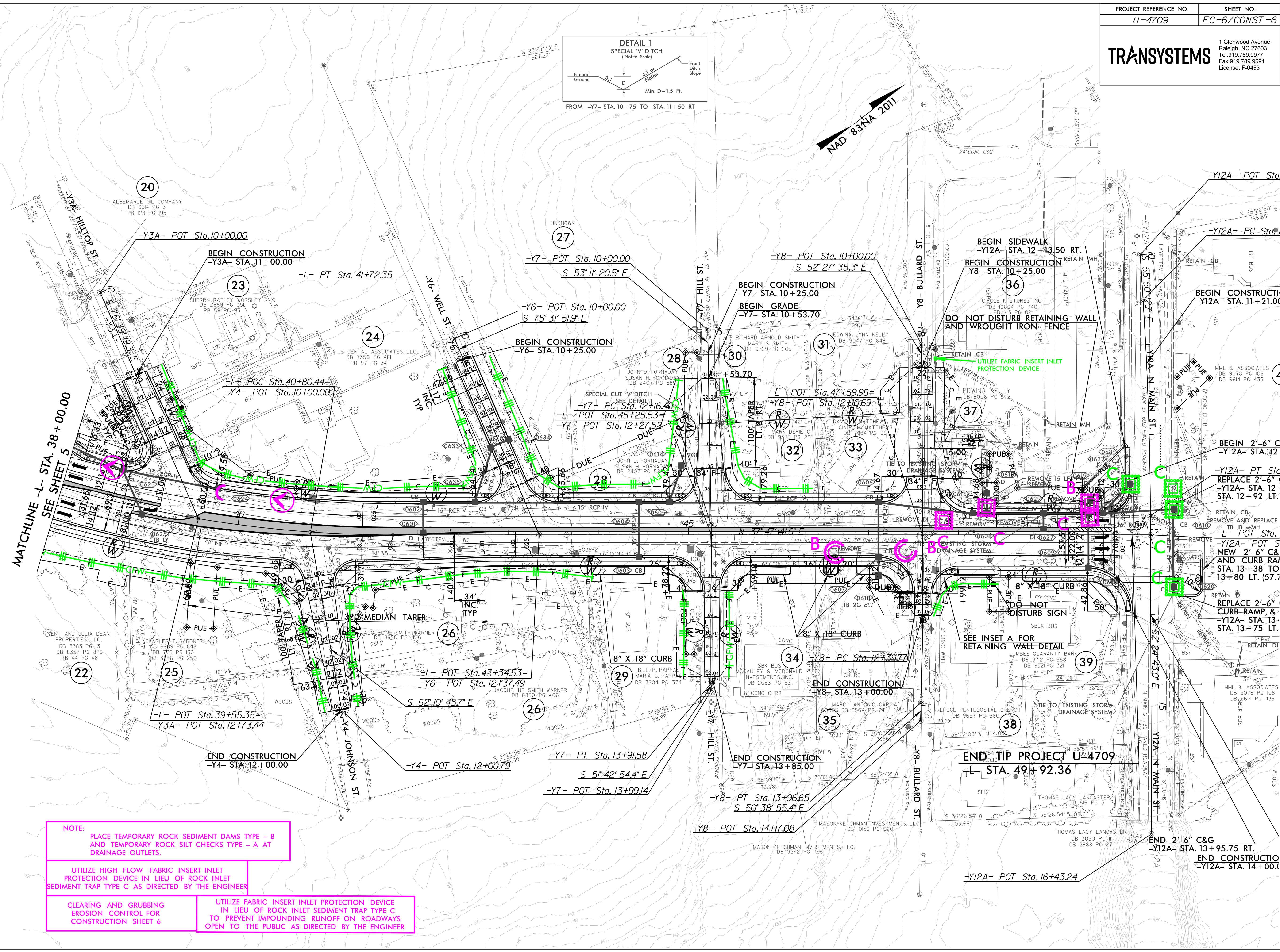
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

UTILIZE HIGH FLOW FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

C:\PROJECTS\U-4709\DRAWINGS\CONST\5\EC-5.CONST-5.DWG
 6/2/2019 10:58:11 AM
 USER: JLM
 PLOT: 6/2/2019 10:58:11 AM
 PLOTTER: HP DesignJet 5000



MATCHLINE -L- STA. 38+00.00
SEE SHEET 5

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

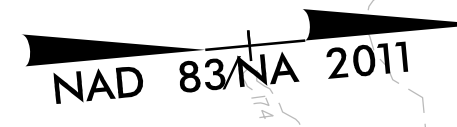
UTILIZE HIGH FLOW FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

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

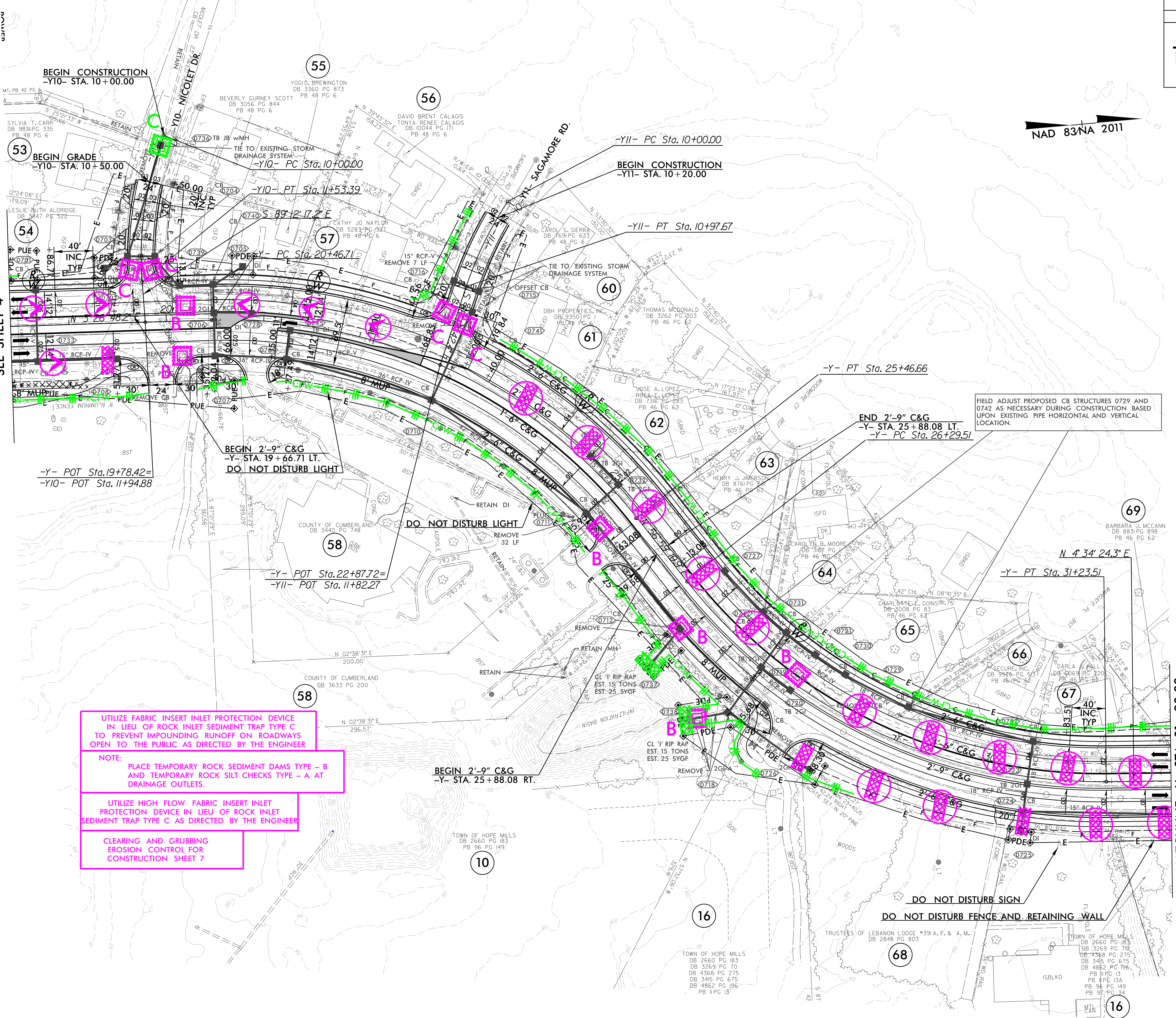
CONSTRUCTION
DRAWING
DATE
6/2/99
BY
JULIAN
CHECKED
BY
NAME

END CONSTRUCTION
-Y12A- STA. 14+00.0



MATCHLINE -Y- STA. 18+40.00
SEE SHEET 4

MATCHLINE -Y- STA. 31+90.00
SEE SHEET 8



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

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

UTILIZE HIGH FLOW FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

FIELD ADJUST PROPOSED CB STRUCTURES 0729 AND 0742 AS NECESSARY DURING CONSTRUCTION BASED UPON EXISTING PIPE HORIZONTAL AND VERTICAL LOCATION.

DO NOT DISTURB SIGN
DO NOT DISTURB FENCE AND RETAINING WALL

BEGIN 2'-9" C&G
-Y- STA. 19+66.71 LT.
DO NOT DISTURB LIGHT

DO NOT DISTURB LIGHT

BEGIN 2'-9" C&G
-Y- STA. 25+88.08 RT.

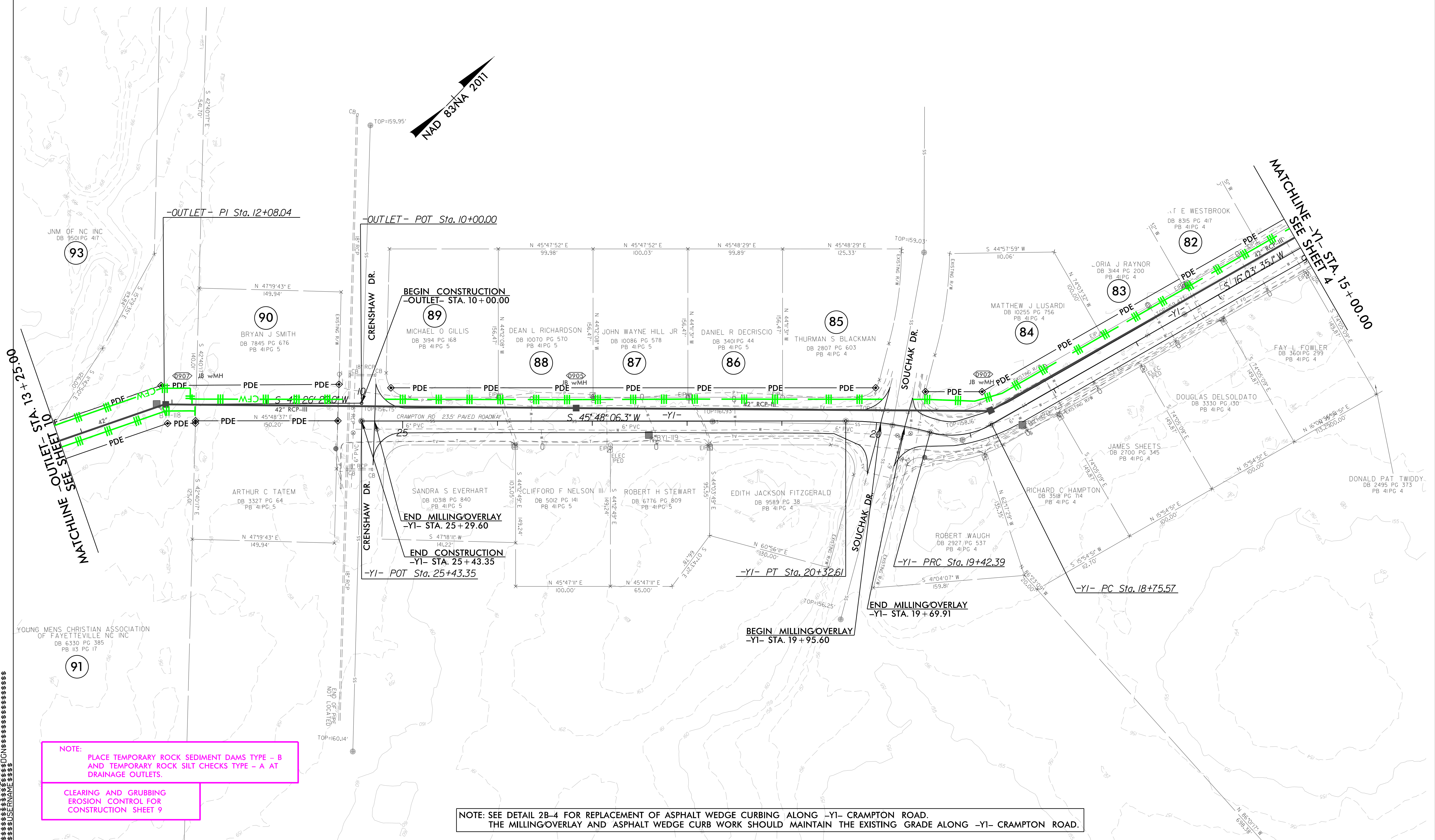
END 2'-9" C&G
-Y- STA. 25+88.08 LT.
-Y- PC Sta. 26+29.51

-Y- PT Sta. 31+23.51

6/2/99

C:\PROJECTS\U-4709\DRAWINGS\CONST\CONST-7.DWG

6/2/99



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 9

NOTE: SEE DETAIL 2B-4 FOR REPLACEMENT OF ASPHALT WEDGE CURBING ALONG -YI- CRAMPTON ROAD. THE MILLING/OVERLAY AND ASPHALT WEDGE CURB WORK SHOULD MAINTAIN THE EXISTING GRADE ALONG -YI- CRAMPTON ROAD.

MATCHLINE - OUTLET OF AIS 13+09.60 SEE SHEET 93

MATCHLINE - YI- STA. 15+00.00 SEE SHEET 4

C:\PROJECTS\2009\U-4709\DRAWINGS\CONST\9-EC-9.DWG



6/2/99

TOWN OF HOPE MILLS
DB 2762 PG 299
92

JNM OF NC, INC
DB 9501 PG 417
93

YOUNG MENS CHRISTIAN ASSOCIATION
OF FAYETTEVILLE, NC, INC
DB 6330 PG 385
PB 1/3 PG 17
91

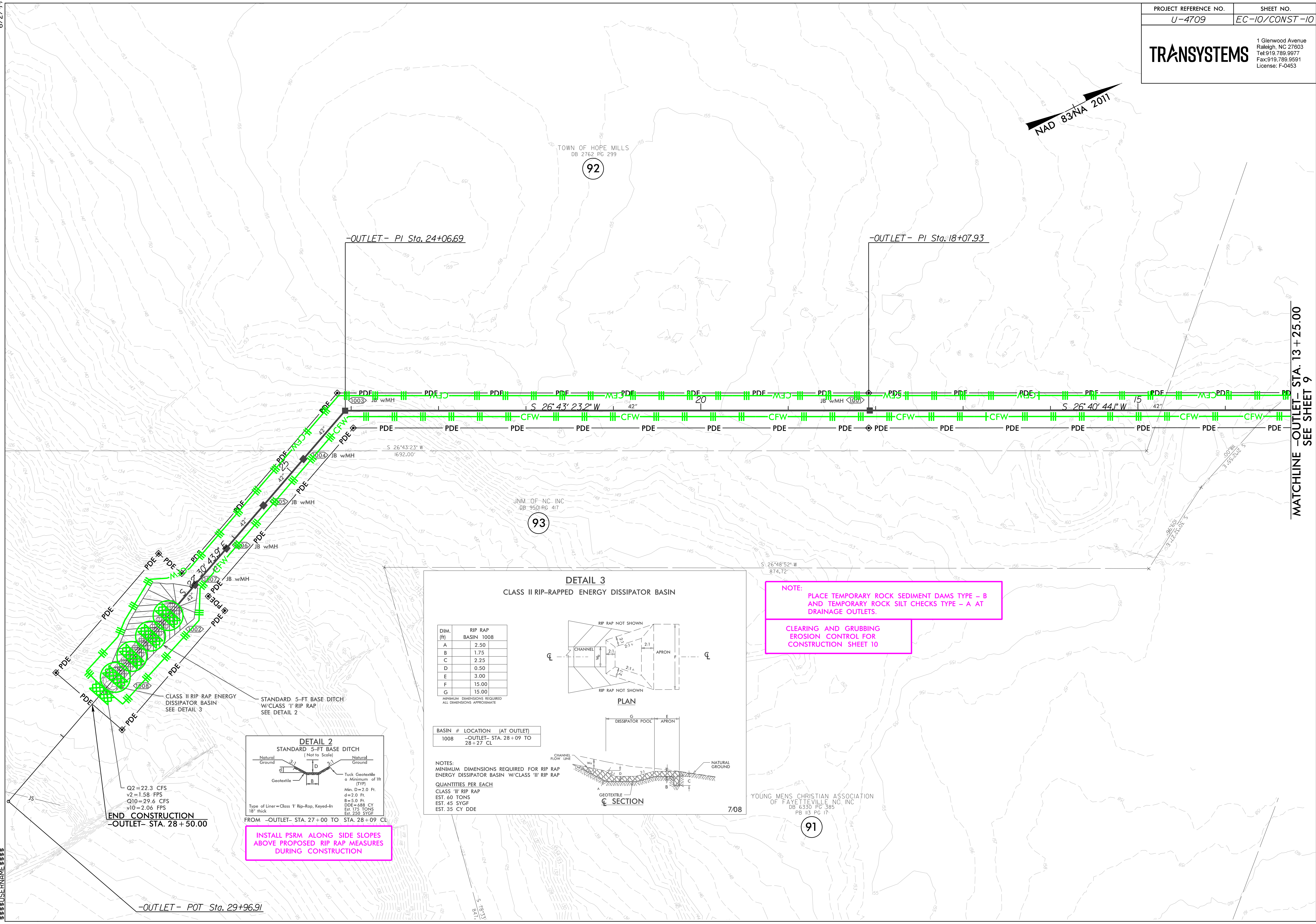
-OUTLET- PI Sta. 24+06.69

-OUTLET- PI Sta. 18+07.93

END CONSTRUCTION
-OUTLET- STA. 28+50.00

-OUTLET- POT Sta. 29+96.91

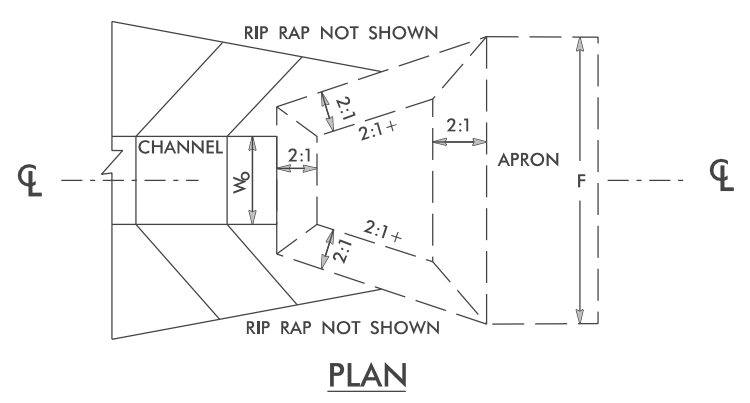
MATCHLINE -OUTLET- STA. 13+25.00
SEE SHEET 9



DETAIL 3
CLASS II RIP-RAPPED ENERGY DISSIPATOR BASIN

DIM. (ft)	RIP RAP BASIN 1008
A	2.50
B	1.75
C	2.25
D	0.50
E	3.00
F	15.00
G	15.00

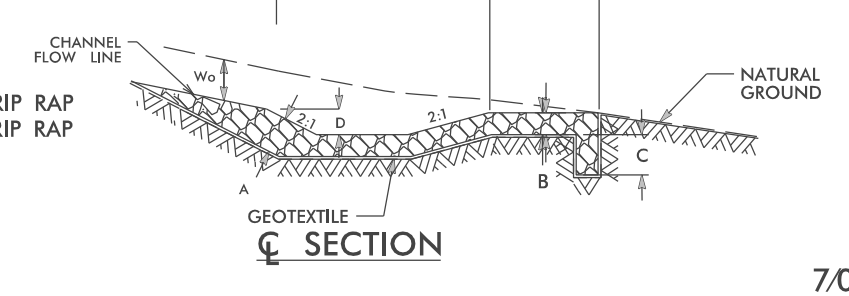
MINIMUM DIMENSIONS REQUIRED
ALL DIMENSIONS APPROXIMATE



BASIN #	LOCATION (AT OUTLET)
1008	-OUTLET- STA. 28+09 TO 28+27 CL

NOTES:
MINIMUM DIMENSIONS REQUIRED FOR RIP RAP ENERGY DISSIPATOR BASIN W/CLASS II RIP RAP

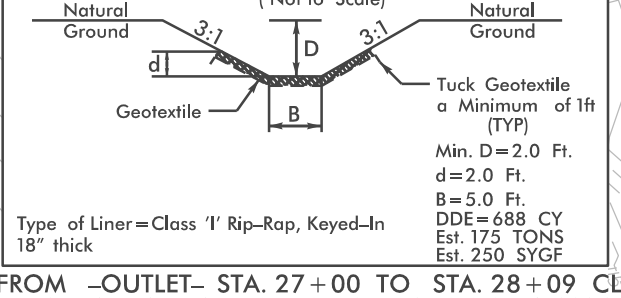
QUANTITIES PER EACH
CLASS II RIP RAP
EST. 60 TONS
EST. 45 SYGF
EST. 35 CY DDE



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 10

DETAIL 2
STANDARD 5-FT BASE DITCH



INSTALL PSRM ALONG SIDE SLOPES ABOVE PROPOSED RIP RAP MEASURES DURING CONSTRUCTION

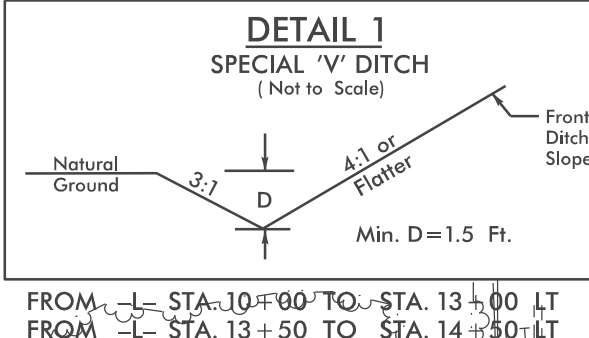
CLASS II RIP RAP ENERGY DISSIPATOR BASIN SEE DETAIL 3

STANDARD 5-FT BASE DITCH W/CLASS 'I' RIP RAP SEE DETAIL 2

Q2=22.3 CFS
v2=1.58 FPS
Q10=29.6 CFS
v10=2.06 FPS

8.17/99

NOTE: ALL CONDUITS NEED TO BE 4" PIPE WITH 90 DEGREE ELBOWS COMING OUT OF THE GROUND.
 BEGIN CONSTRUCTION
 -L- STA. 9+67.00



2"-4" CONDUITS FOR WATER AND POWER
 -L- POT Sta.16+79.53=
 -RNDI- POC Sta.13+04.13

MATCHLINE -Y- STA. 18+40.00
 SEE SHEET 7

EMERGENCY VEHICLE ACCESS
 SEE DETAIL SHEET 2C-2

-L- POT Sta. 21+59.94=
 -YI- POT Sta.10+00.00

-Y- POC Sta.15+81.32=
 -RNDI- POC Sta.12+05.36

-Y- PRC Sta. 15+70.61

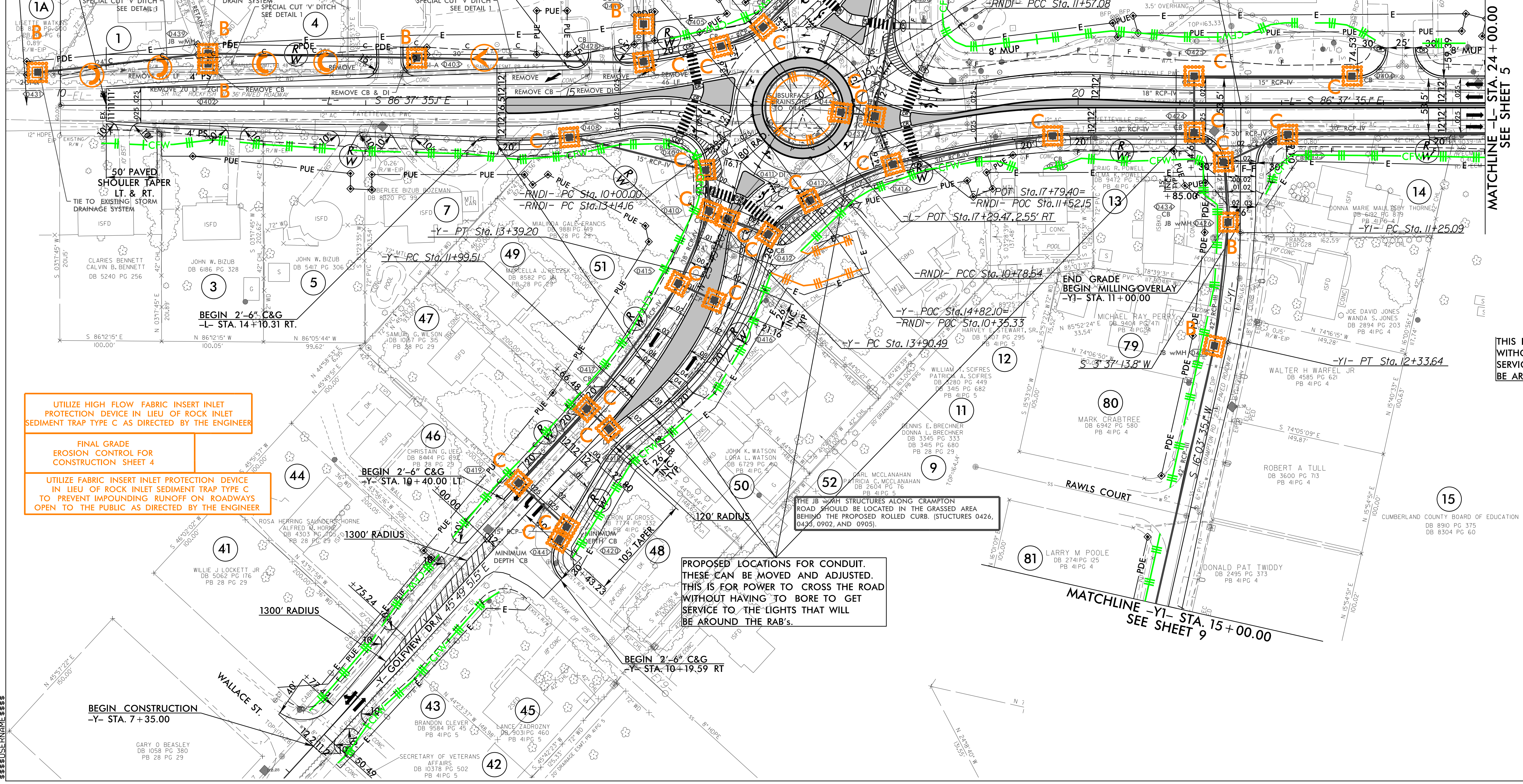
Place Matting for Erosion Control on Slope as Work Allows.
 -L- STA. 18+50 to Sta. 21+50 LT

Place Matting for Erosion Control on Slope as Work Allows.
 -Y- STA. 18+00 to Sta. 18+40 RT

-L- POT Sta.17+21.52=
 -Y- POT Sta.15+29.45
 -RNDI- PCC Sta. 11+57.08

-L- POT Sta.10+00.00
 BEGIN TIP PROJECT U-4709
 -L- STA.10+45.00

BEGIN 2'-6" C&G
 -L- STA. 14+98.59 LT.



UTILIZE HIGH FLOW FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

FINAL GRADE EROSION CONTROL FOR CONSTRUCTION SHEET 4

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

THE JB WITH STRUCTURES ALONG CRAMPTON ROAD SHOULD BE LOCATED IN THE GRASSY AREA BEHIND THE PROPOSED ROLLED CURB. (STRUCTURES 0426, 0433, 0902, AND 0905).

PROPOSED LOCATIONS FOR CONDUIT. THESE CAN BE MOVED AND ADJUSTED. THIS IS FOR POWER TO CROSS THE ROAD WITHOUT HAVING TO BORE TO GET SERVICE TO THE LIGHTS THAT WILL BE AROUND THE RAB'S.

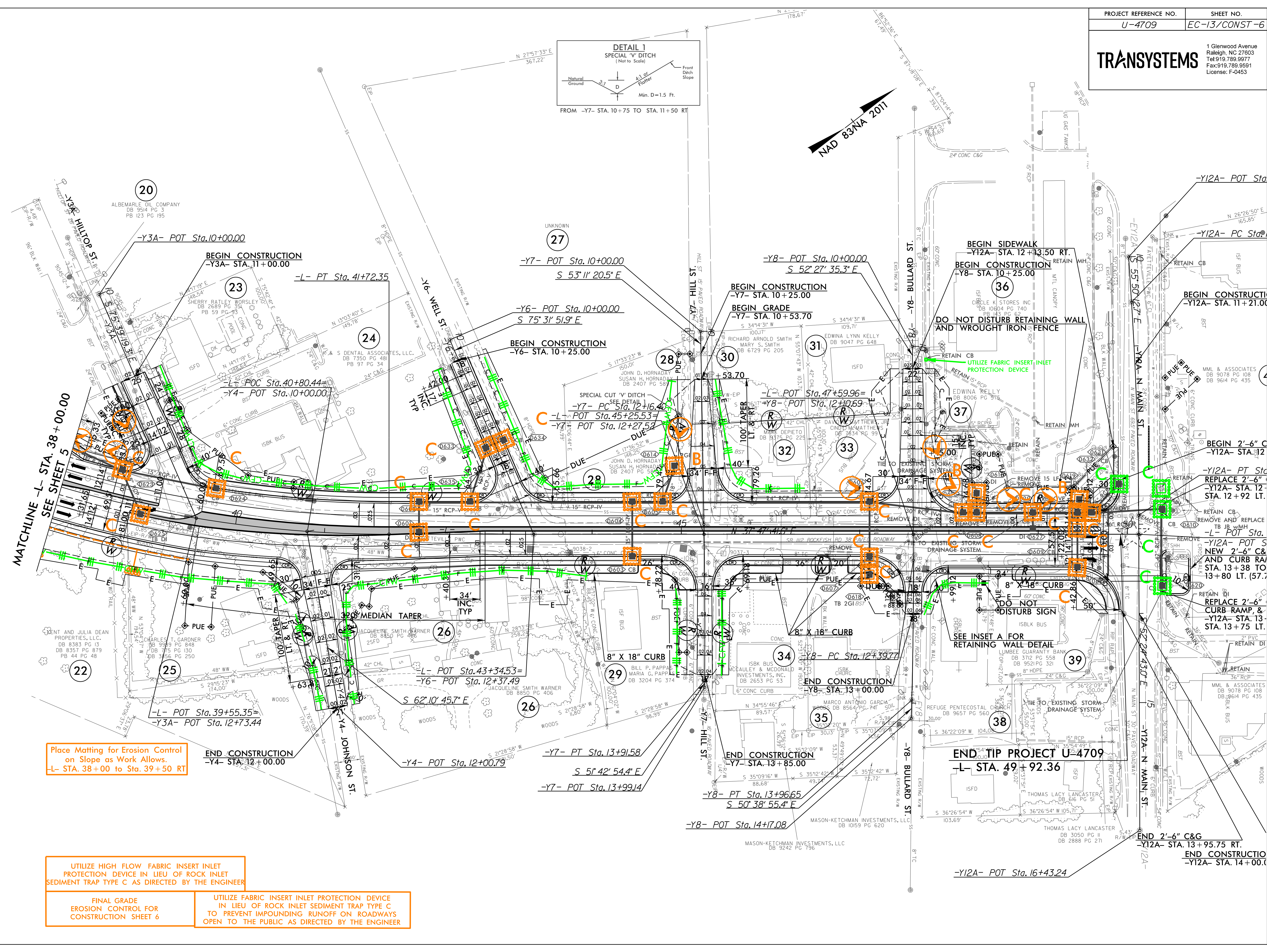
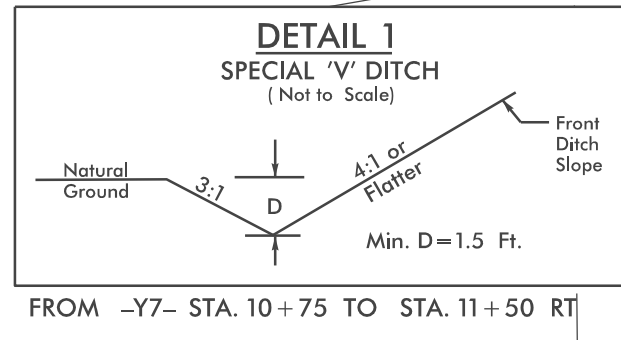
BEGIN CONSTRUCTION
 -Y- STA. 7+35.00

BEGIN 2'-6" C&G
 -Y- STA. 10+19.59 RT

MATCHLINE -YI- STA. 15+00.00
 SEE SHEET 9

MATCHLINE -L- STA 24+00.00
 SEE SHEET 5

THIS IS WITHOUT SERVICE BE ARO



MATCHLINE -L- STA. 38+00.00
SEE SHEET 5

Place Matting for Erosion Control on Slope as Work Allows.
-L- STA. 38+00 to Sta. 39+50 RT

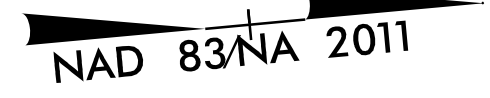
UTILIZE HIGH FLOW FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

FINAL GRADE EROSION CONTROL FOR CONSTRUCTION SHEET 6

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

END TIP PROJECT U-4709
-L- STA. 49+92.36

C:\P\19\U-4709\CONSTRUCTION\U-4709-EC-13-CONST-6.dwg
 6/2/19 10:58 AM
 J:\P\19\U-4709\CONSTRUCTION\U-4709-EC-13-CONST-6.dwg
 6/2/19 10:58 AM
 J:\P\19\U-4709\CONSTRUCTION\U-4709-EC-13-CONST-6.dwg
 6/2/19 10:58 AM



MATCHLINE -Y- STA. 18+40.00
SEE SHEET 4

MATCHLINE -Y- STA. 31+90.00
SEE SHEET 8

BEGIN CONSTRUCTION
-Y10- STA. 10+00.00

BEGIN GRADE
-Y10- STA. 10+50.00

-Y- POT Sta. 19+78.42=
-Y10- POT Sta. 11+94.88

Place Matting for Erosion Control
on Slope as Work Allows.
-Y- STA. 18+40 to Sta. 20+50 RT

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

UTILIZE HIGH FLOW FABRIC INSERT INLET
PROTECTION DEVICE IN LIEU OF ROCK INLET
SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

FINAL GRADE
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

BEGIN 2'-9" C&G
-Y- STA. 19+66.71 LT.
DO NOT DISTURB LIGHT

DO NOT DISTURB LIGHT

-Y- POT Sta. 22+87.72=
-Y11- POT Sta. 11+82.27

BEGIN 2'-9" C&G
-Y- STA. 25+88.08 RT.

-Y11- PC Sta. 10+00.00

BEGIN CONSTRUCTION
-Y11- STA. 10+20.00

-Y11- PT Sta. 10+97.67

-Y- PT Sta. 25+46.66

END 2'-9" C&G
-Y- STA. 25+88.08 LT.
-Y- PC Sta. 26+29.51

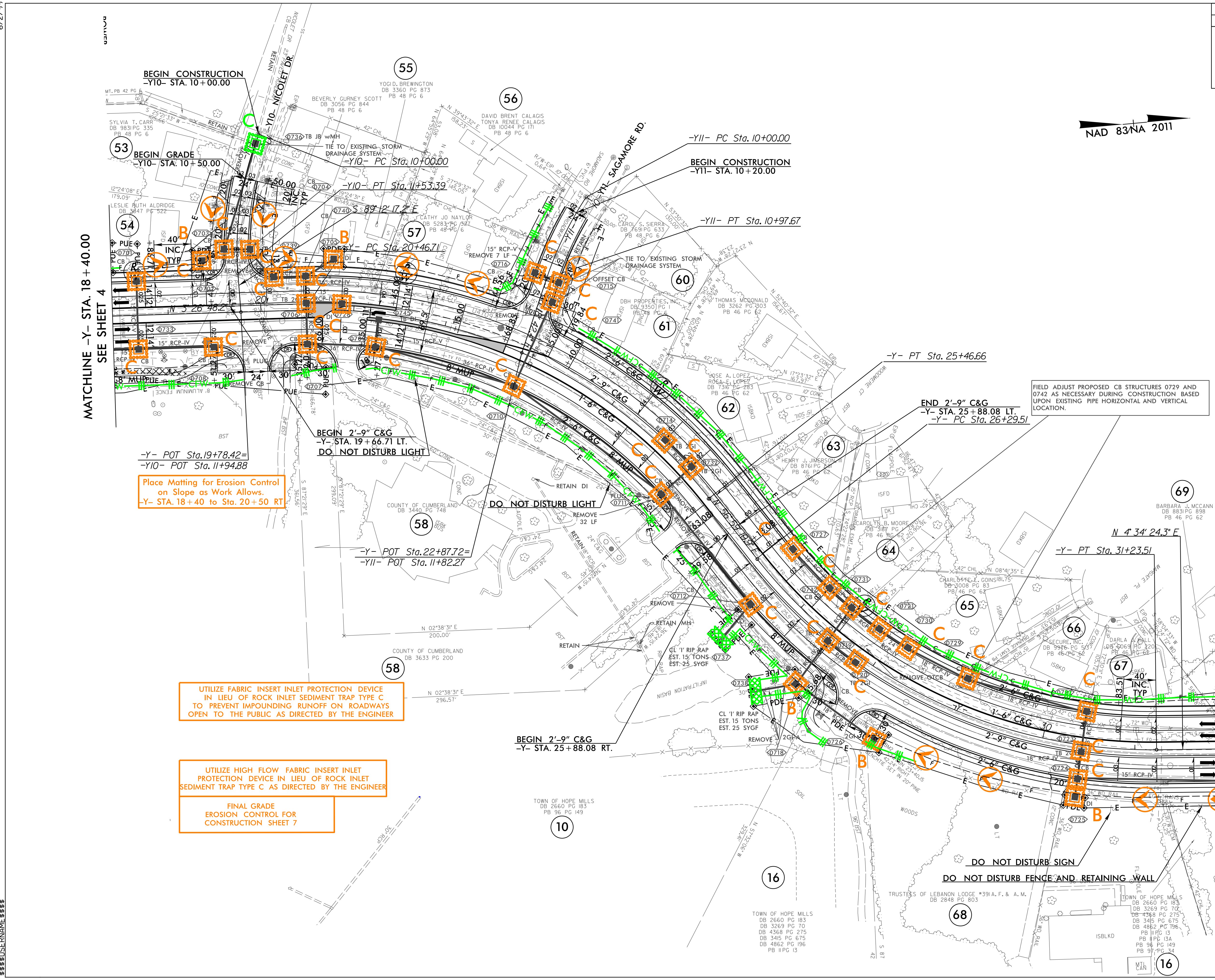
FIELD ADJUST PROPOSED CB STRUCTURES 0729 AND
0742 AS NECESSARY DURING CONSTRUCTION BASED
UPON EXISTING PIPE HORIZONTAL AND VERTICAL
LOCATION.

-Y- PT Sta. 31+23.51

DO NOT DISTURB SIGN
DO NOT DISTURB FENCE AND RETAINING WALL

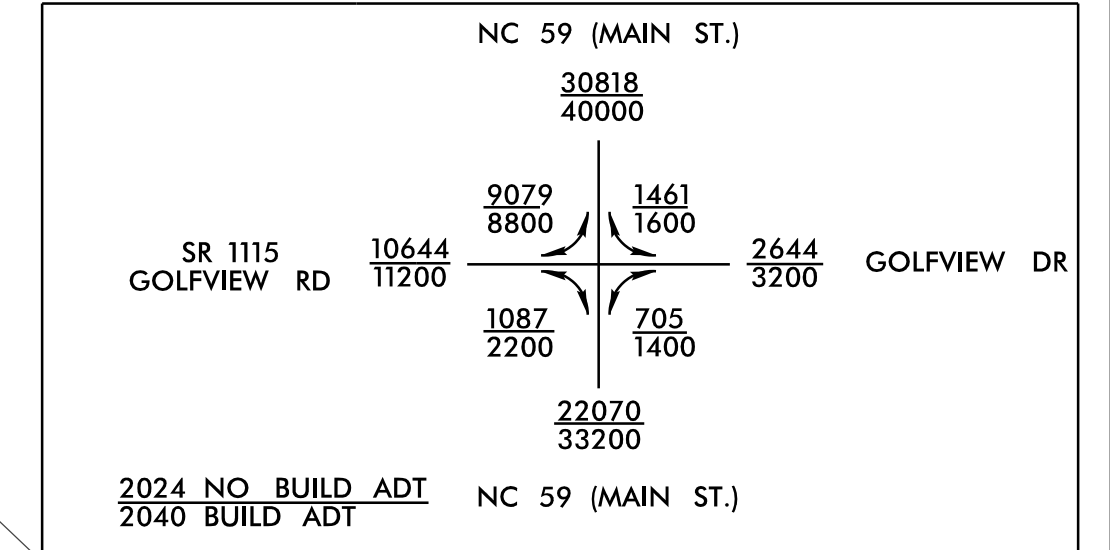
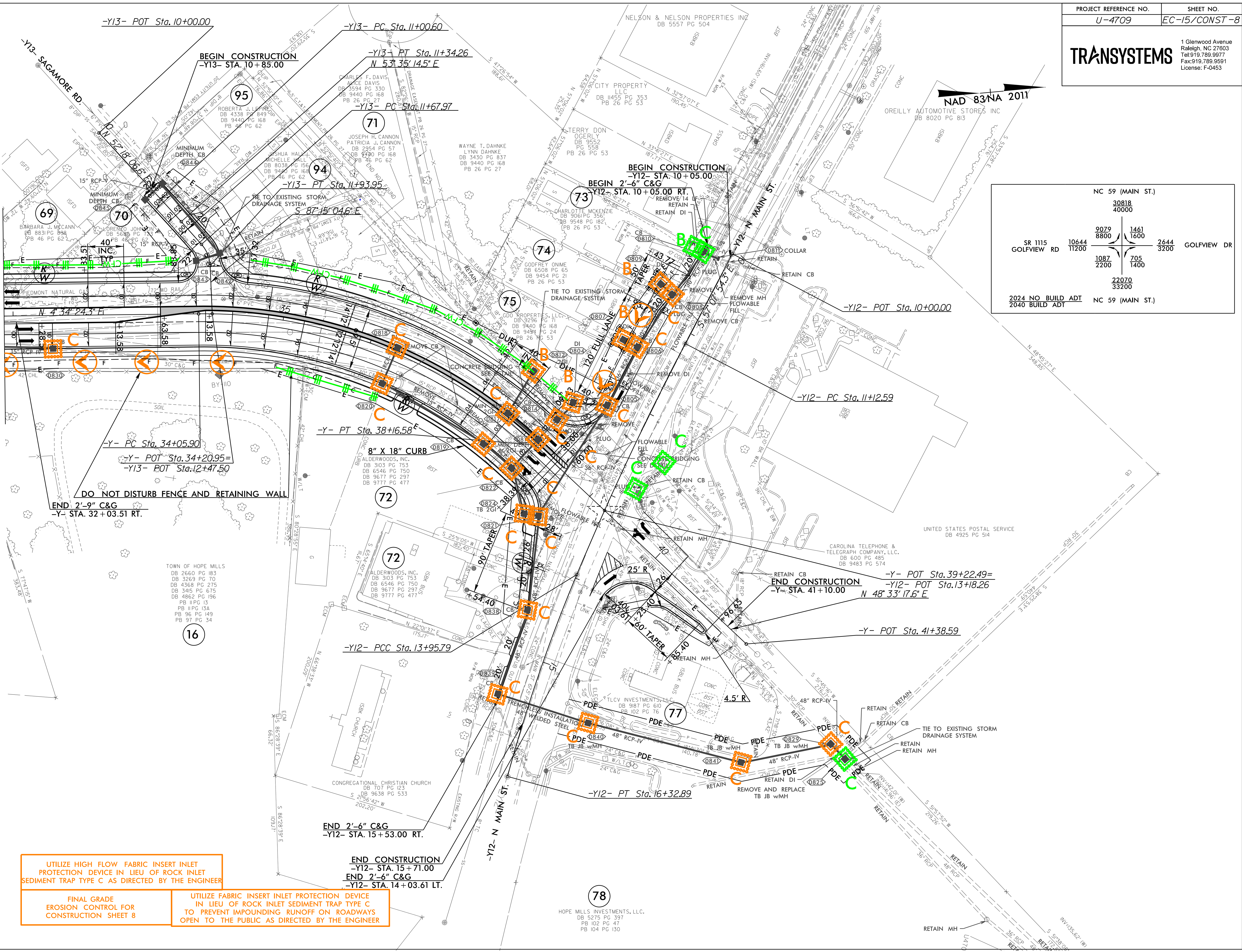
6/2/09

C:\PROJECTS\2009\06\2\U-4709\DRAWINGS\CONSTRUCTION\14-CONST-7.DWG



6/2/2019

MATCHLINE -Y- STA. 31+90.00
SEE SHEET 7



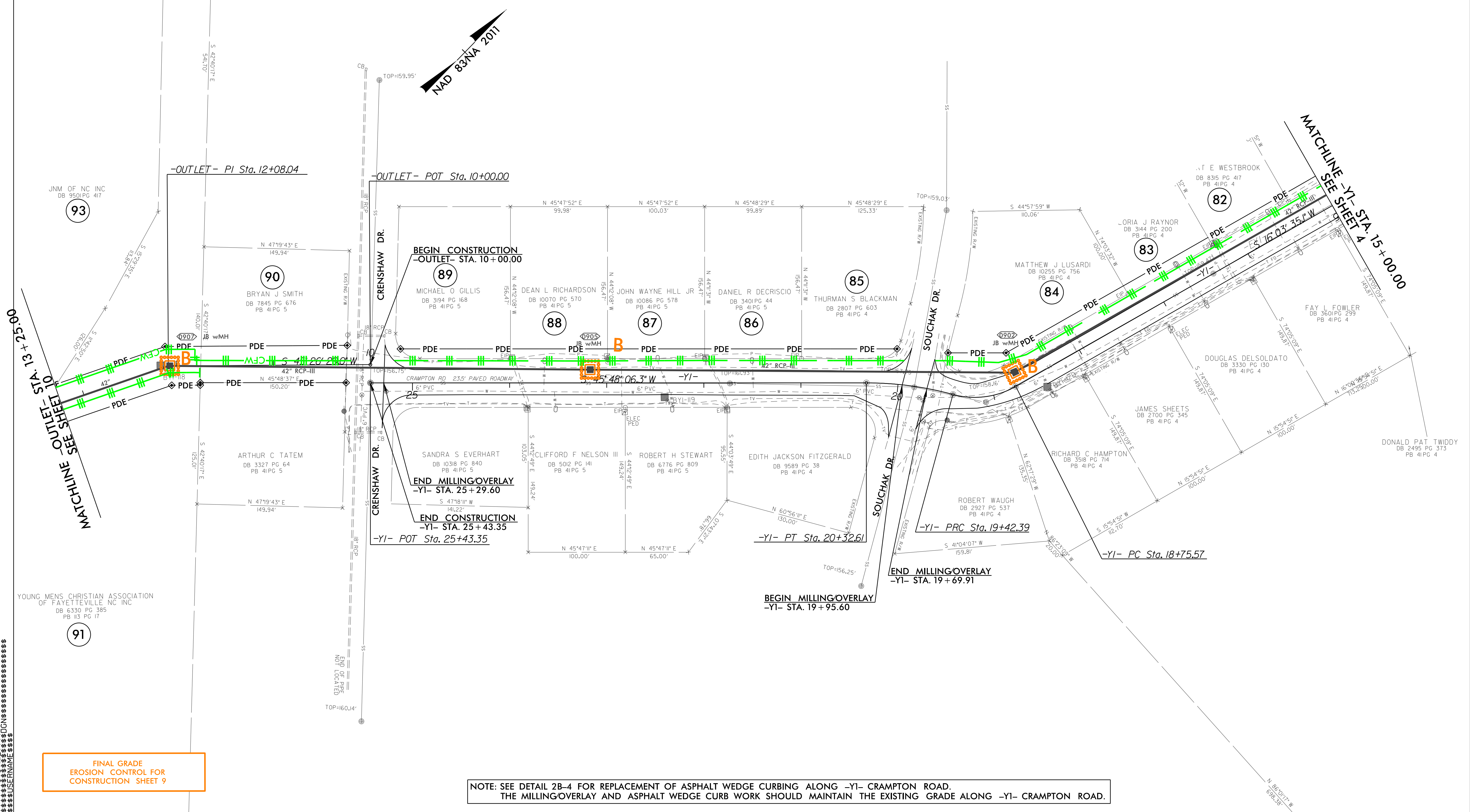
UTILIZE HIGH FLOW FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

FINAL GRADE EROSION CONTROL FOR CONSTRUCTION SHEET 8

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

CONSTRUCTION CONDITIONS SHALL BE MAINTAINED AS SHOWN ON SHEET 7

6/2/99

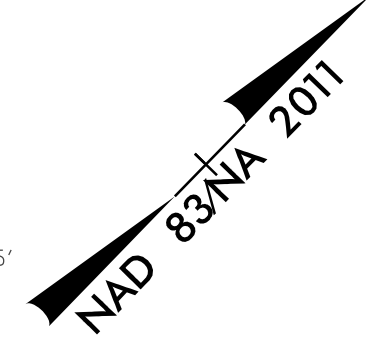


FINAL GRADE
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 9

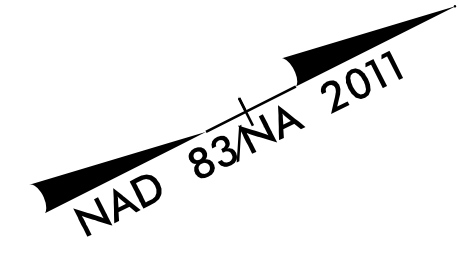
NOTE: SEE DETAIL 2B-4 FOR REPLACEMENT OF ASPHALT WEDGE CURBING ALONG -Y1- CRAMPTON ROAD. THE MILLING/OVERLAY AND ASPHALT WEDGE CURB WORK SHOULD MAINTAIN THE EXISTING GRADE ALONG -Y1- CRAMPTON ROAD.

00.52+13.15
 MATCHLINE - OUTLET - SEE SHEET 13
 00.52+13.15
 MATCHLINE - OUTLET - SEE SHEET 13

MATCHLINE - Y1 - STA. 15+00.00
 SEE SHEET 4



6/2/99

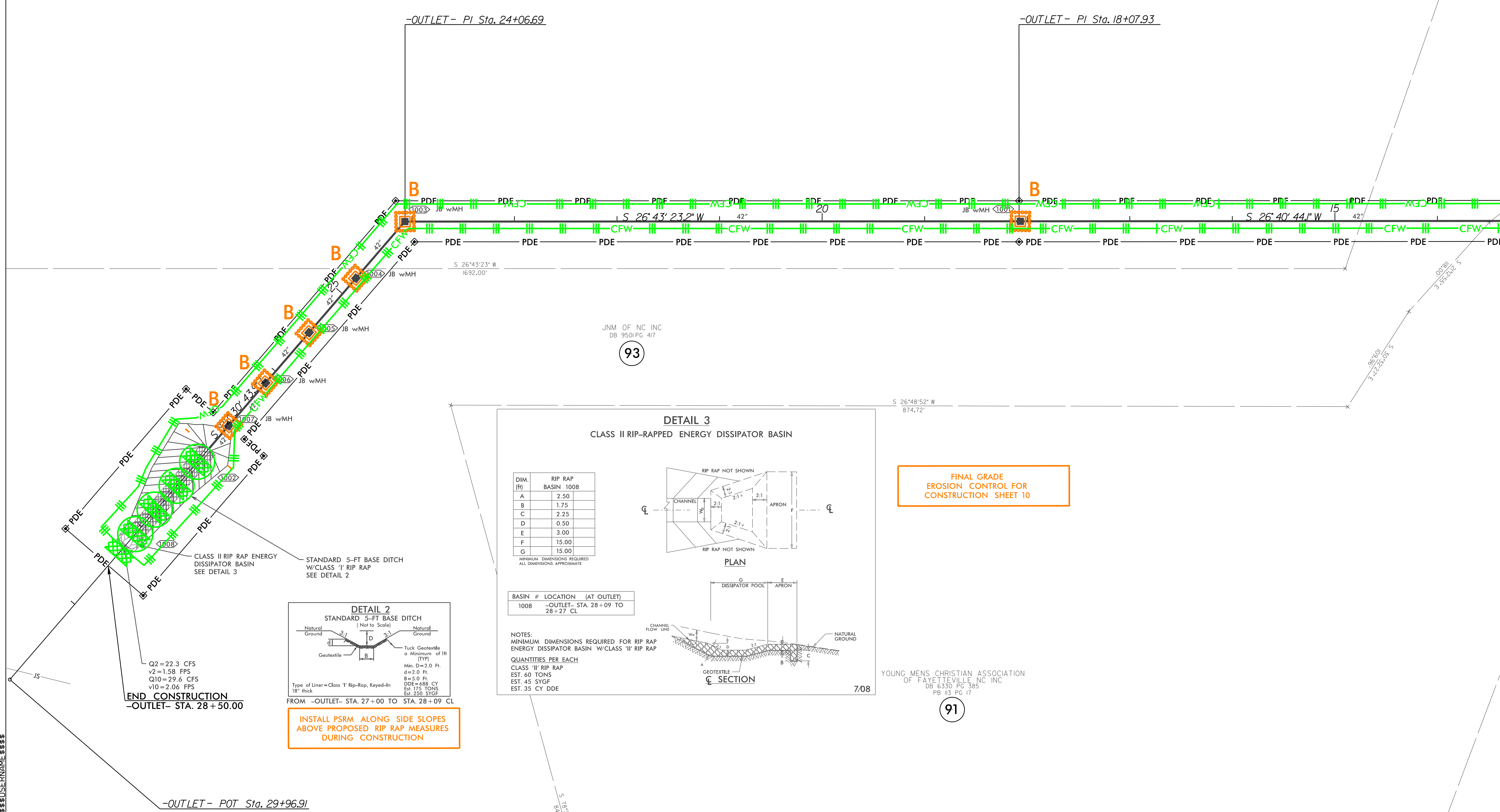


TOWN OF HOPE MILLS
 DB 2762 PG 299
 92

JNM OF NC INC
 DB 9501 PG 417
 93

S 26°48'52" W
 874.72'

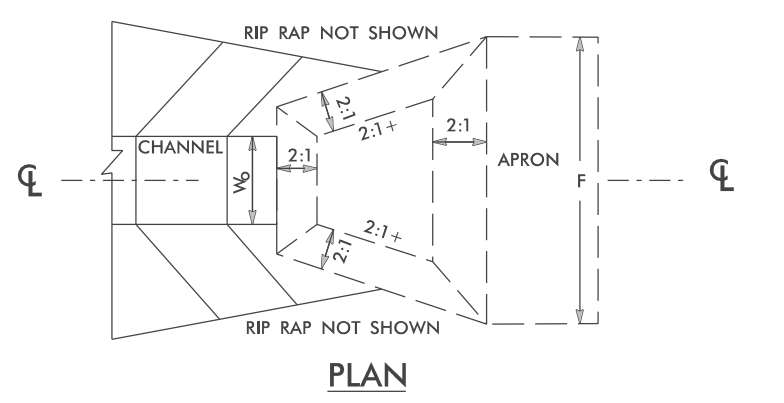
MATCHLINE -OUTLET- STA. 13 + 25.00
 SEE SHEET 9



DETAIL 3
 CLASS II RIP-RAPPED ENERGY DISSIPATOR BASIN

DIM. (ft)	RIP RAP BASIN 1008
A	2.50
B	1.75
C	2.25
D	0.50
E	3.00
F	15.00
G	15.00

MINIMUM DIMENSIONS REQUIRED
 ALL DIMENSIONS APPROXIMATE

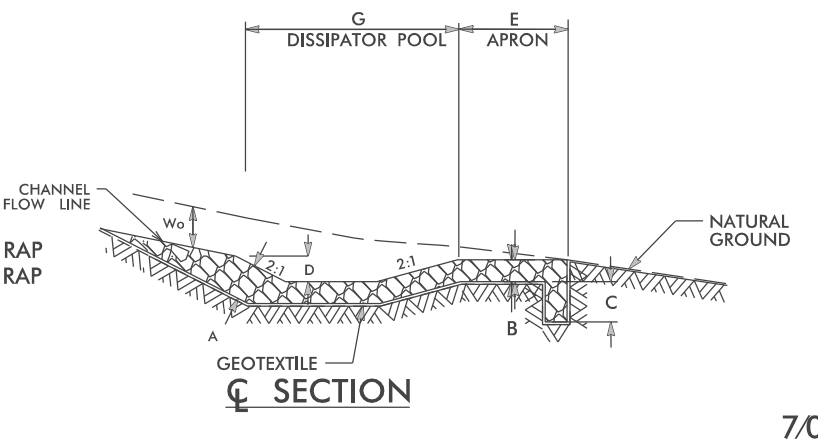


FINAL GRADE
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 10

BASIN #	LOCATION (AT OUTLET)
1008	-OUTLET- STA. 28+09 TO 28+27 CL

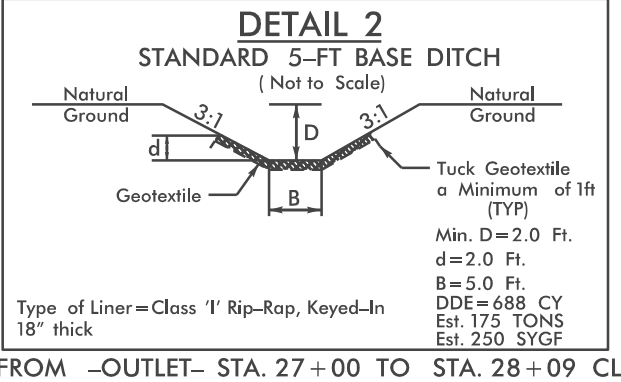
NOTES:
 MINIMUM DIMENSIONS REQUIRED FOR RIP RAP ENERGY DISSIPATOR BASIN W/CLASS II RIP RAP

QUANTITIES PER EACH
 CLASS II RIP RAP
 EST. 60 TONS
 EST. 45 SYGF
 EST. 35 CY DDE



YOUNG MENS CHRISTIAN ASSOCIATION
 OF FAYETTEVILLE NC INC
 DB 6330 PG 385
 PB 131 PG 17

91



INSTALL PSRM ALONG SIDE SLOPES ABOVE PROPOSED RIP RAP MEASURES DURING CONSTRUCTION

Q2 = 22.3 CFS
 v2 = 1.58 FPS
 Q10 = 29.6 CFS
 v10 = 2.06 FPS

END CONSTRUCTION
 -OUTLET- STA. 28+50.00

-OUTLET- POT Sta. 29+96.91

CONSTRUCTION MATCHLINE
 SEE SHEET 11