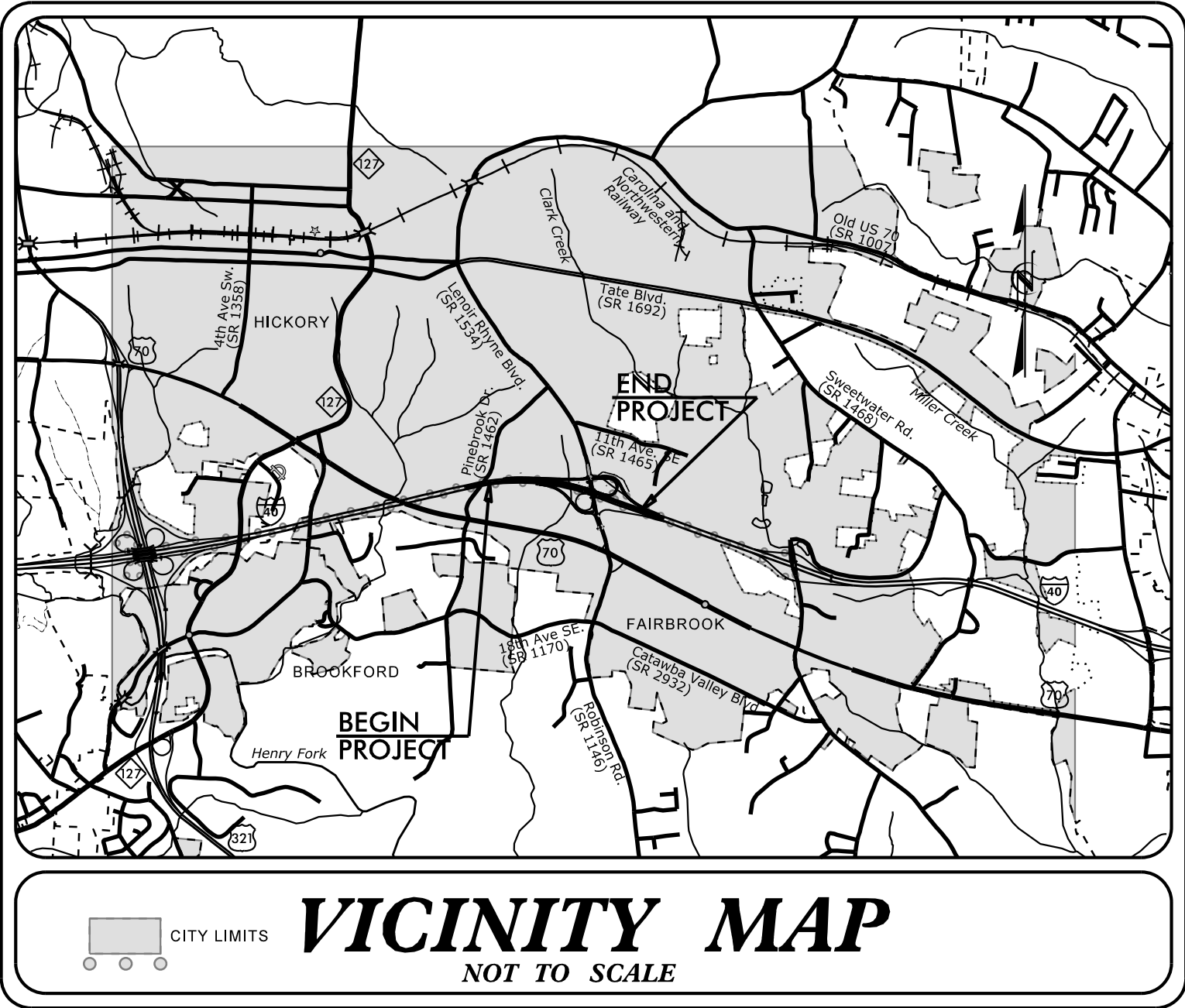


4/1/2028 EC.dgn-psh-01.dgn
ME-000-005

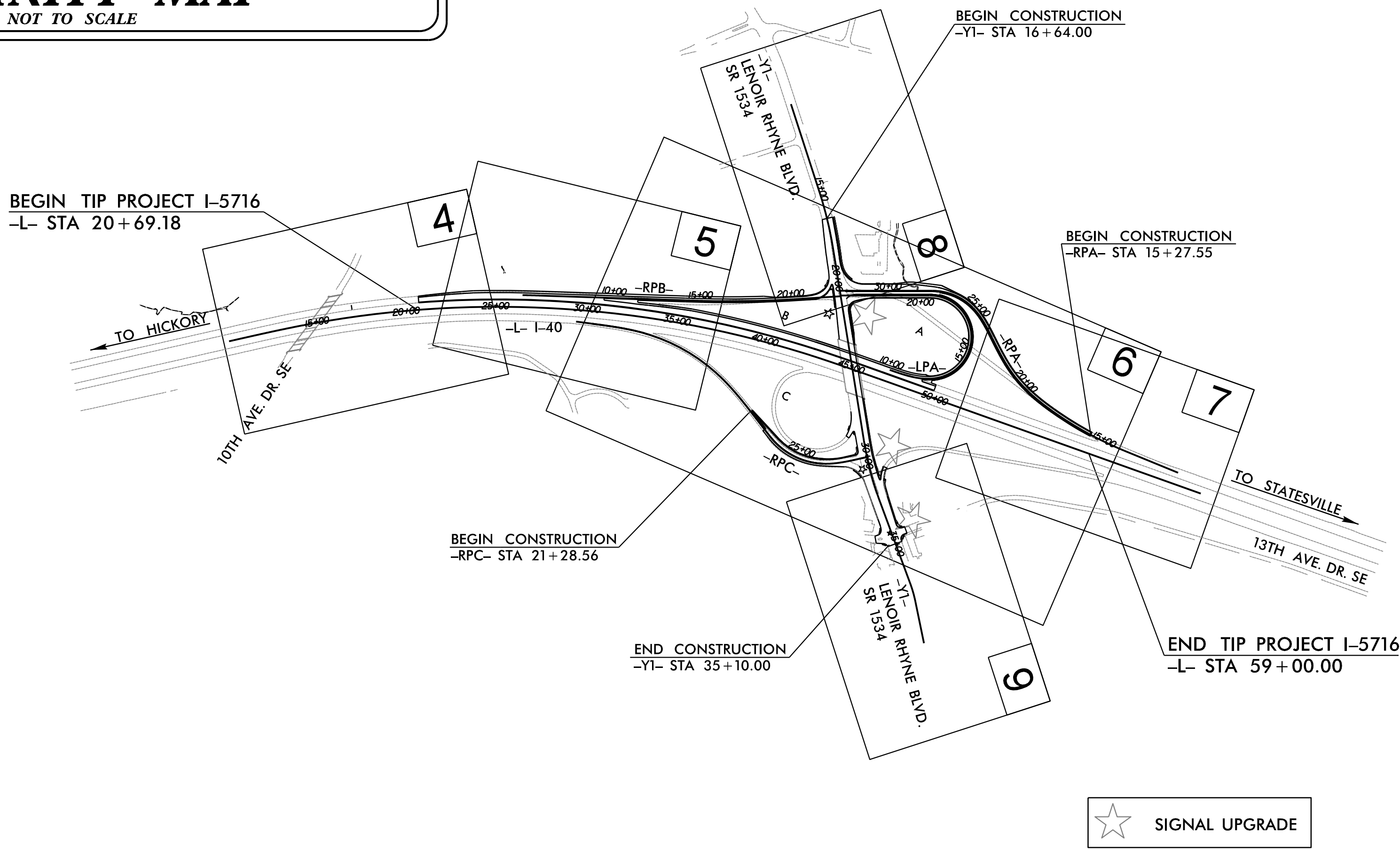
CONTRACT: C205195

TIP PROJECT: I-5716



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

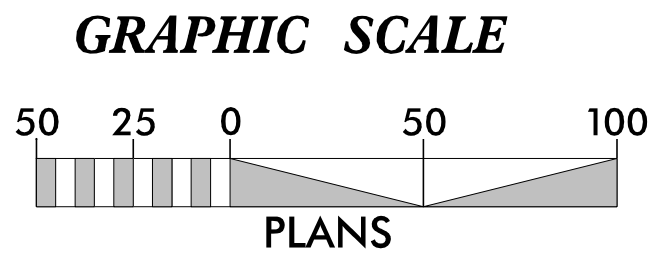
LOCATION: I-40 AND SR 1007 (LENOIR RHYNE BOULEVARD) INTERCHANGE
TYPE OF WORK: DRAINAGE, SIGNALS, PAVEMENT MARKINGS,
GRADING, AND PAVING



NAD 83NA 2011

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5716	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50133.1.FS1	NHPP-040-2(166)131	PE	
50133.2.1	NHPP-0402(166)	R/W & Util.	

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:

SUNGATE
DESIGN GROUP

5400 Etta Burke Ct., STE. 100 • Raleigh, North Carolina 27606
Phone: (919) 859-2243 • Eng Firm License No. C-890

Designed by:

MATTHEW C. EDWARDS, PE 3992
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.	SHEET NO.
1-5716	EC-02

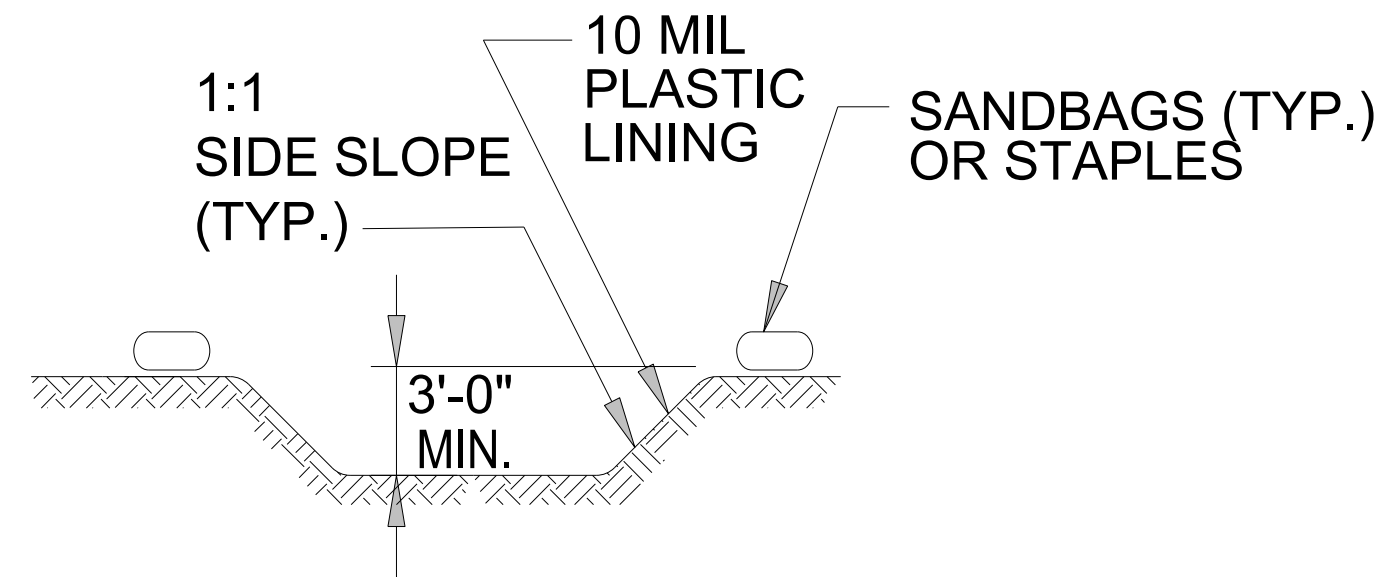
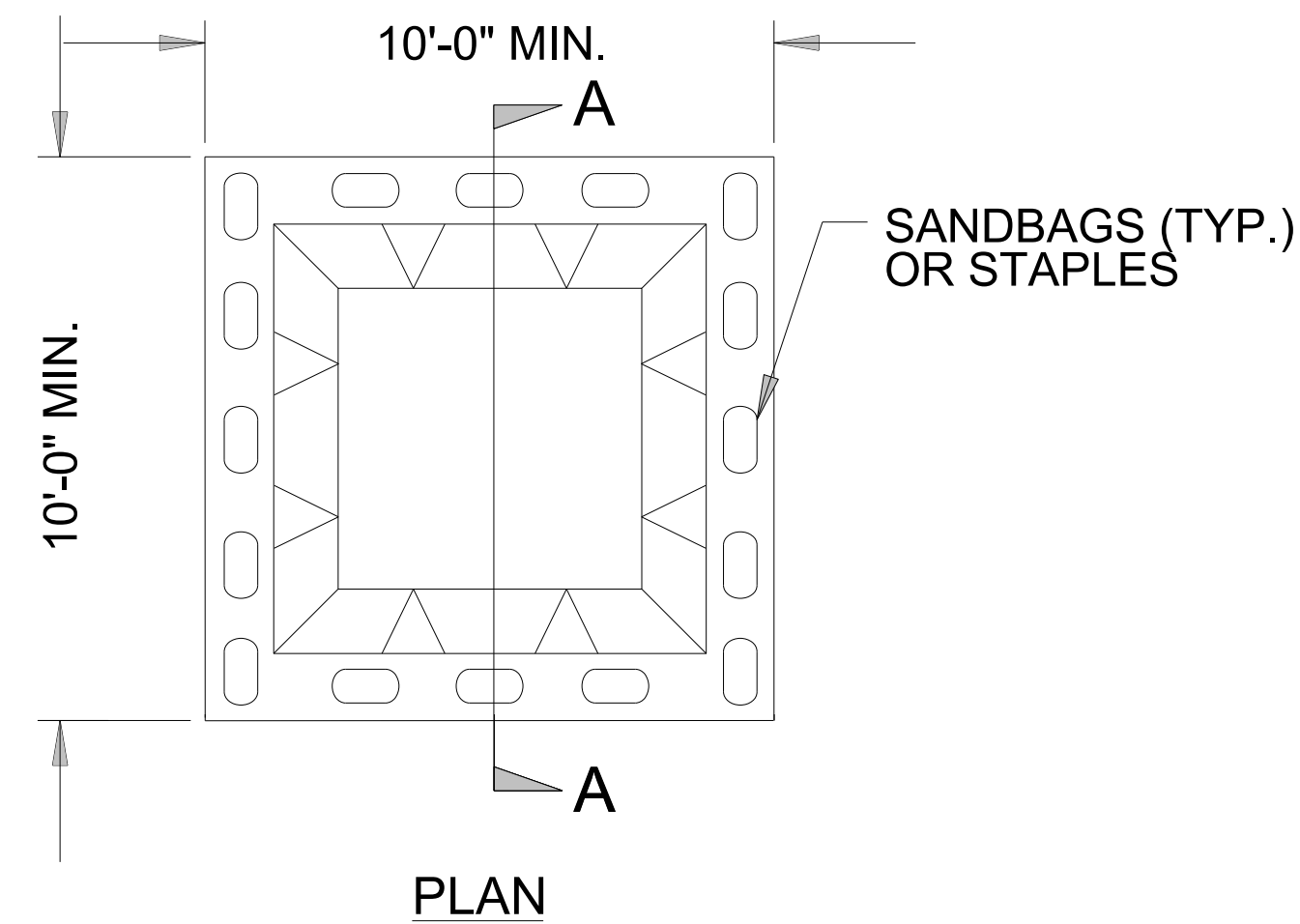
EROSION & SEDIMENT CONTROL LEGEND

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	

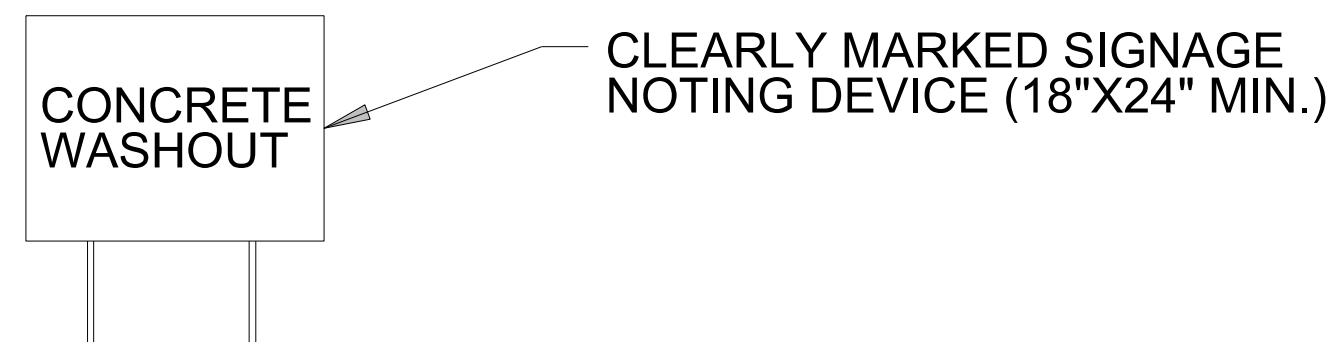
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet 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.
1-5716	EC-2A
RW SHEET NO.	

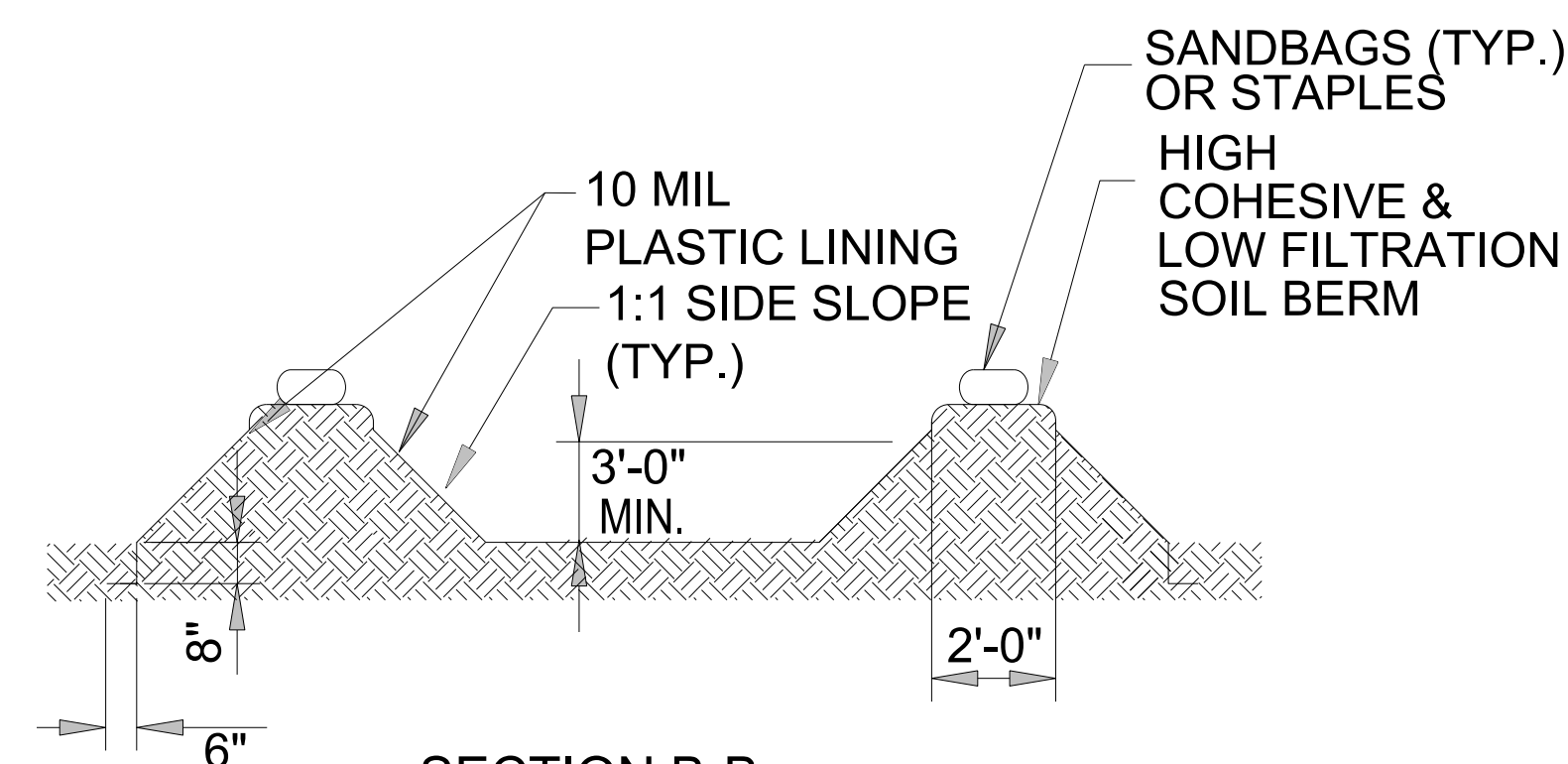
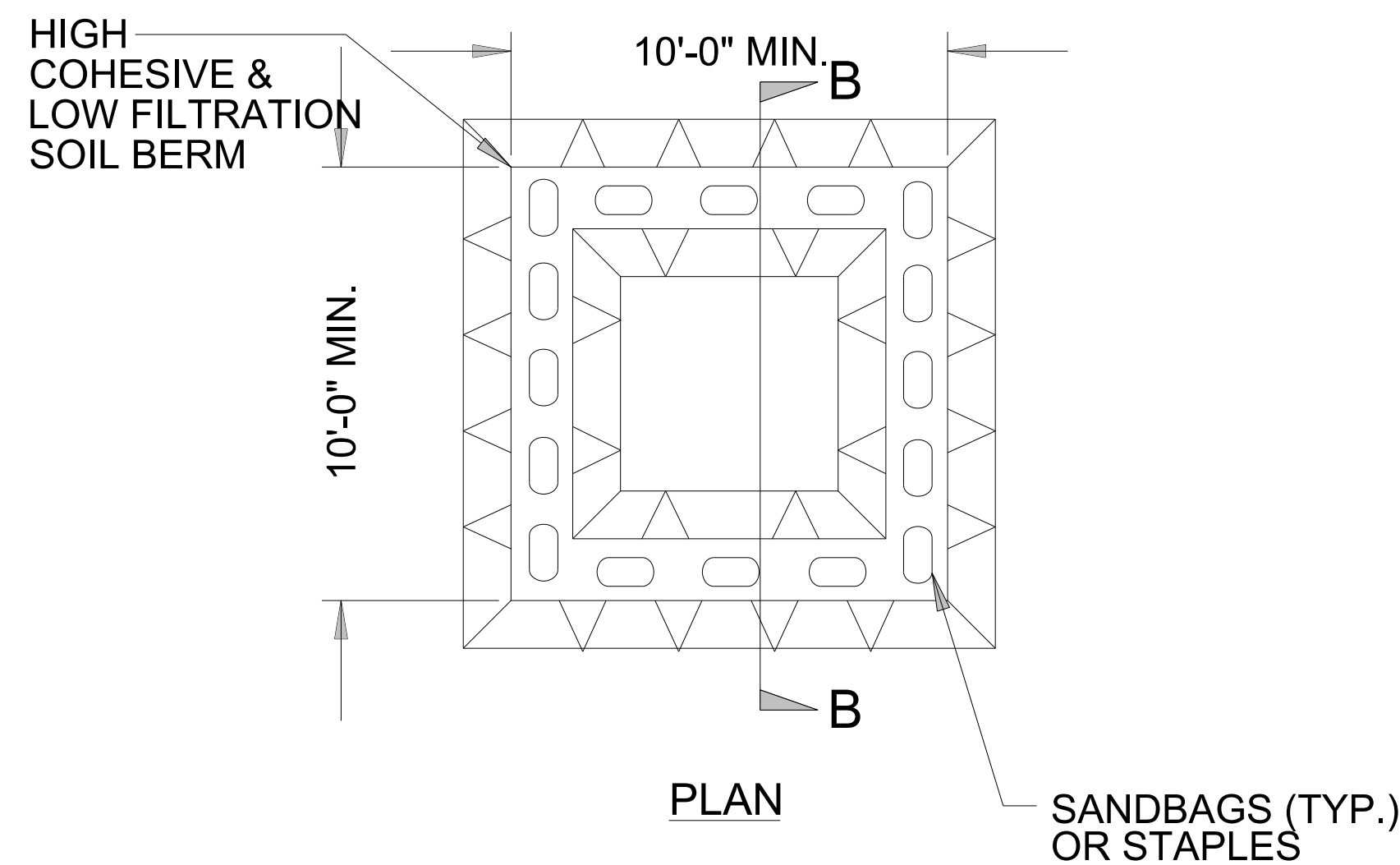


SECTION A-A

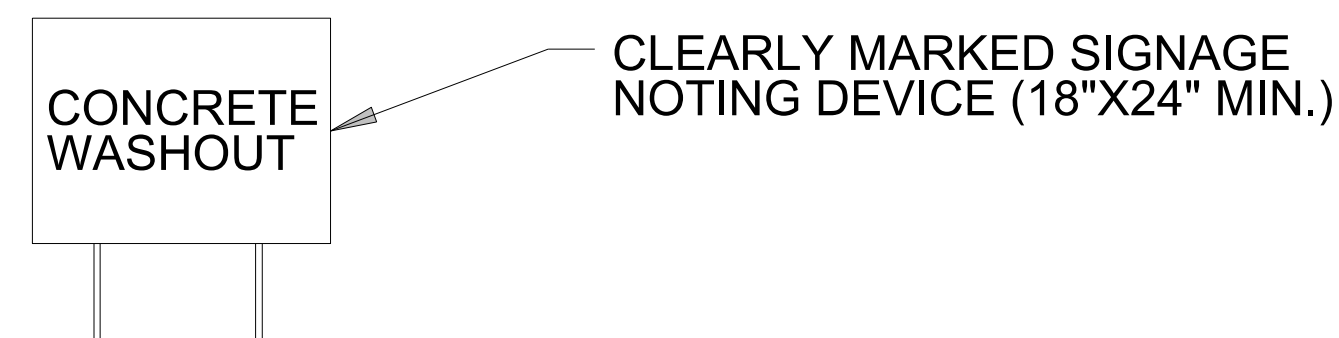


BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- 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.



SECTION B-B



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.

ION CONTROL (DITCH) EXCELSIOR MATTING FOR EROSION CONTROL (DITCH)

[illegible]

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

STRAW MATTING FOR EROSION CONTROL (SLOPES)

EXCELSIOR MATTING FOR EROSION CONTROL (SLOPES)

<i>CONST SHEET NO.</i>	<i>LINE</i>	<i>FROM STATION</i>	<i>TO STATION</i>	<i>SIDE</i>	<i>ESTIMATE (SY)</i>
4 & 5	-L-	23+45	26+30	LT	1,900
5 & 6	-RPB-	14+50	19+80	LT	3,080
6	-L-	43+35	43+50	LT	40
6	-LPA-	14+50	15+65	LT	370
6	-LPA-	16+75	18+75	LT	510
6 & 7	-RPA-	18+00	24+50	RT	4,935
6	-RPA-	27+50	29+90	RT	815
6	-RPB-	20+00	21+85	LT	700
6	-RPB-	23+15	23+75	LT	185
SUBTOTAL FOR STRAW MATTING IN DITCHES					4,760
SUBTOTAL FOR EXCELSIOR MATTING IN DITCHES					2,640
SUBTOTAL FOR STRAW MATTING ON SLOPES					12,535
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					14,930
				TOTAL	34,865
				SAY	35,000

[illegible]

PROJECT REFERENCE NO.	SHEET NO.
1-5716	EC-3A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
I-5716	EC-3B

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

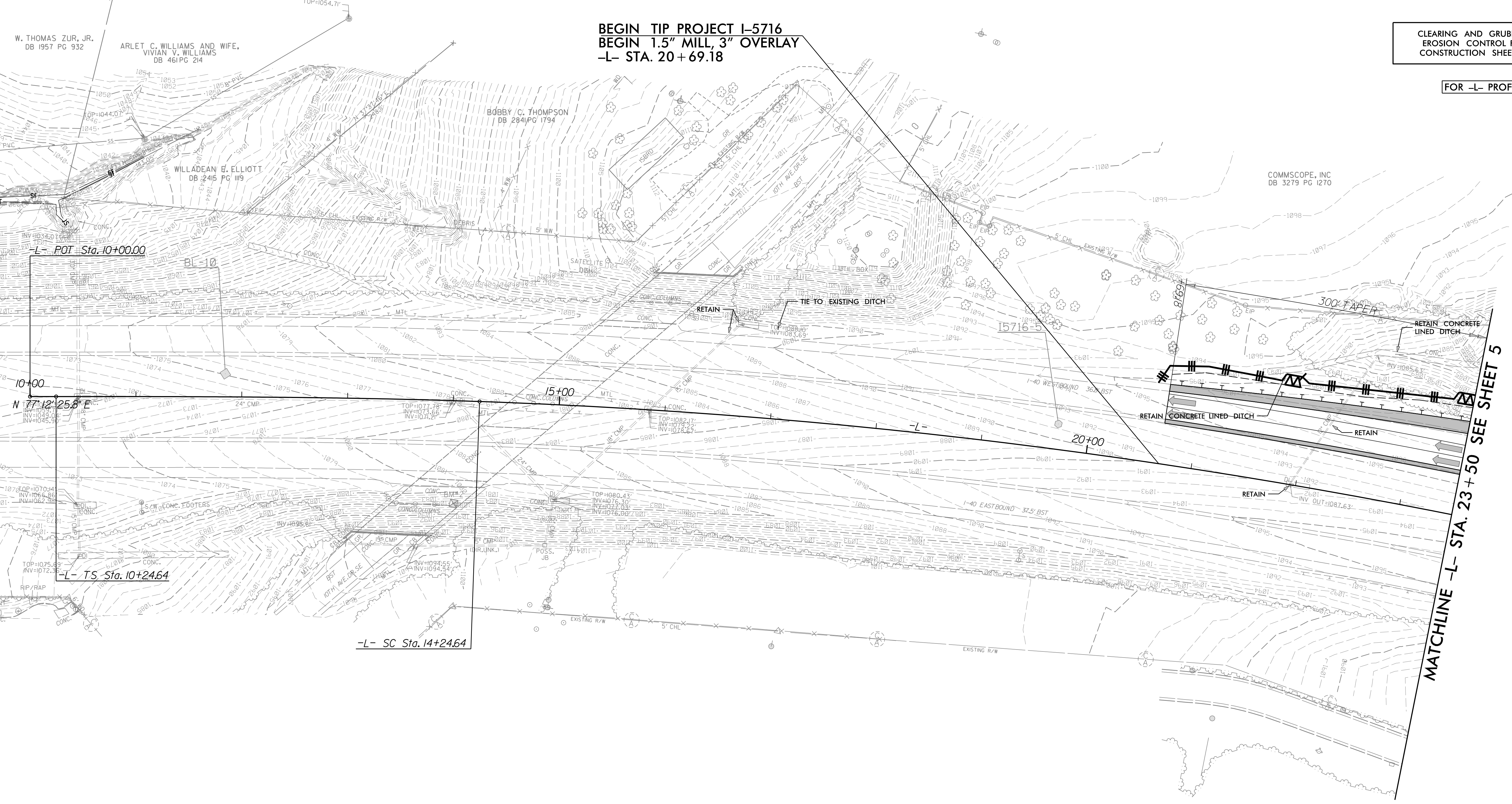
PROJECT REFERENCE NO.	SHEET NO.
1-5716	EC-04/CONST.04
RW SHEET NO.	

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

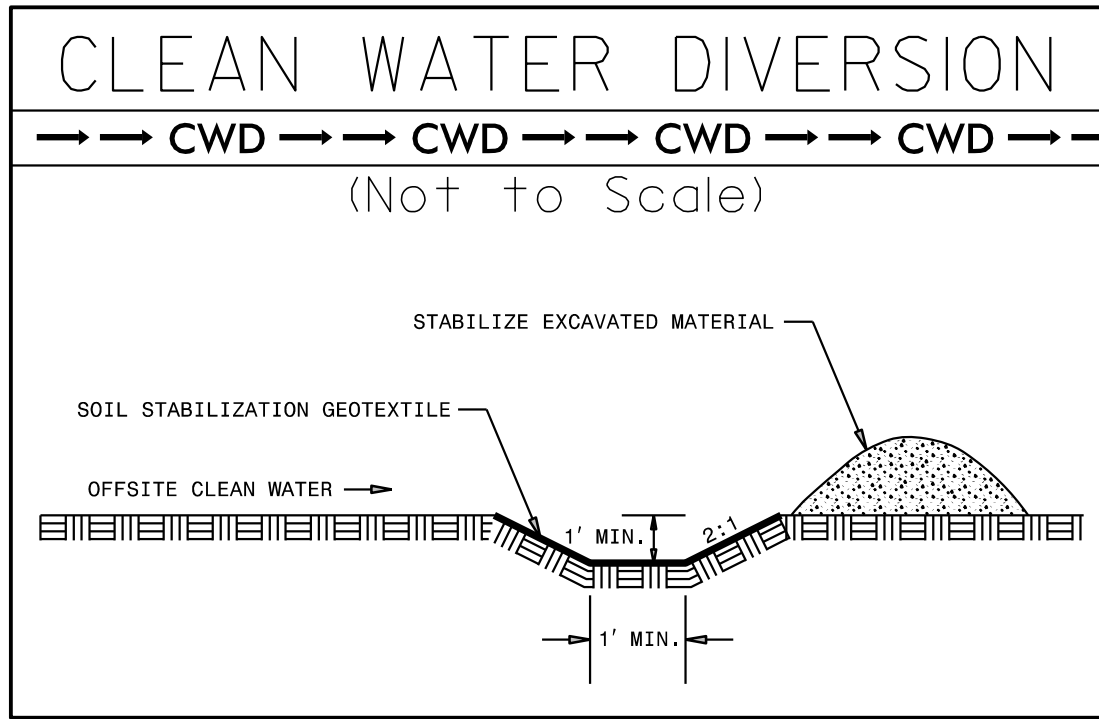
NAD 83/NA 2011

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

FOR -L- PROFILE SEE SHT. 10



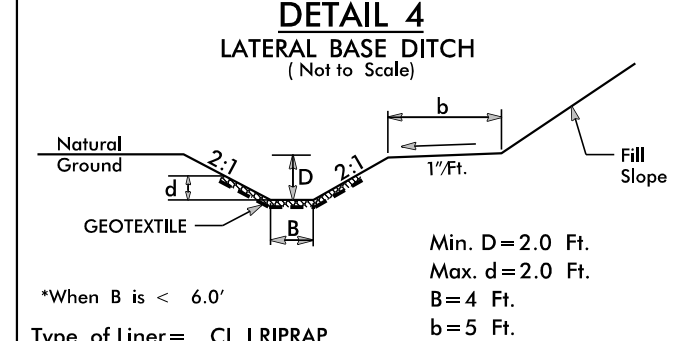
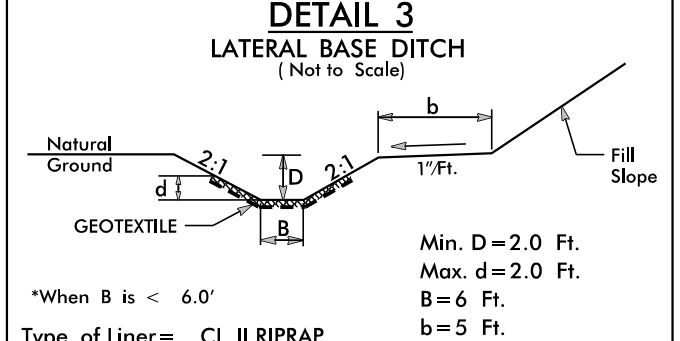
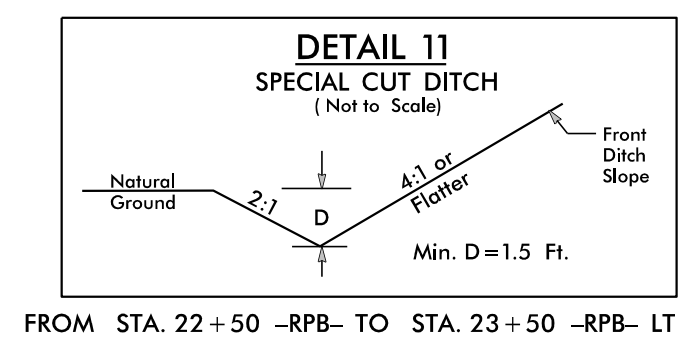
MATCHLINE -L- STA. 23+50 SEE SHEET 5



INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

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

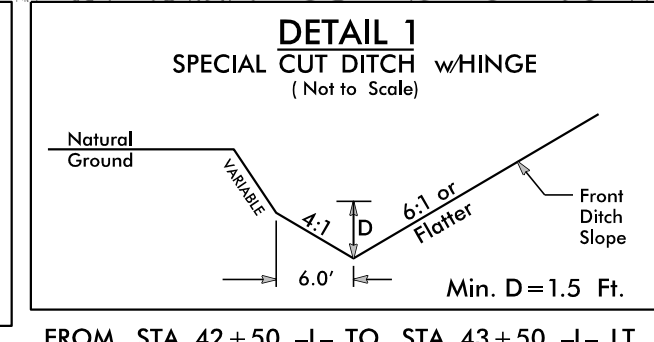
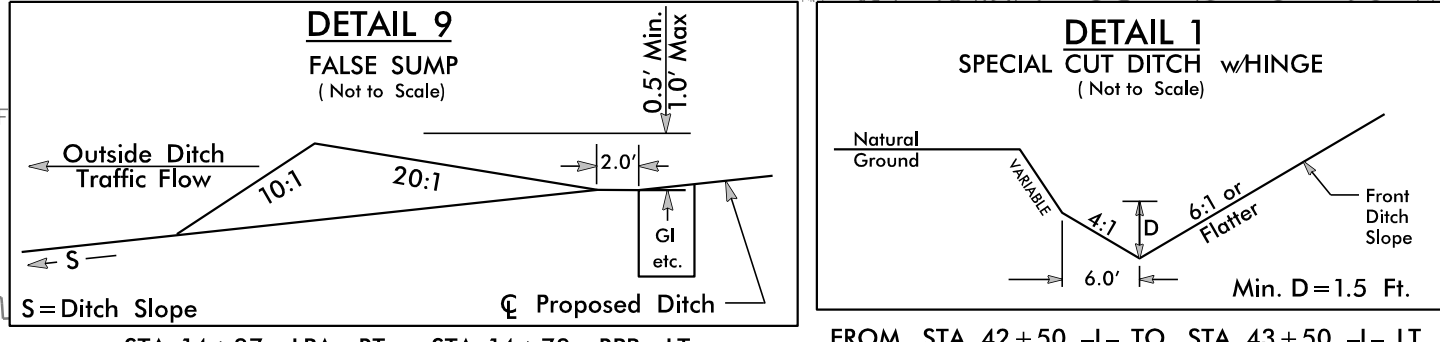
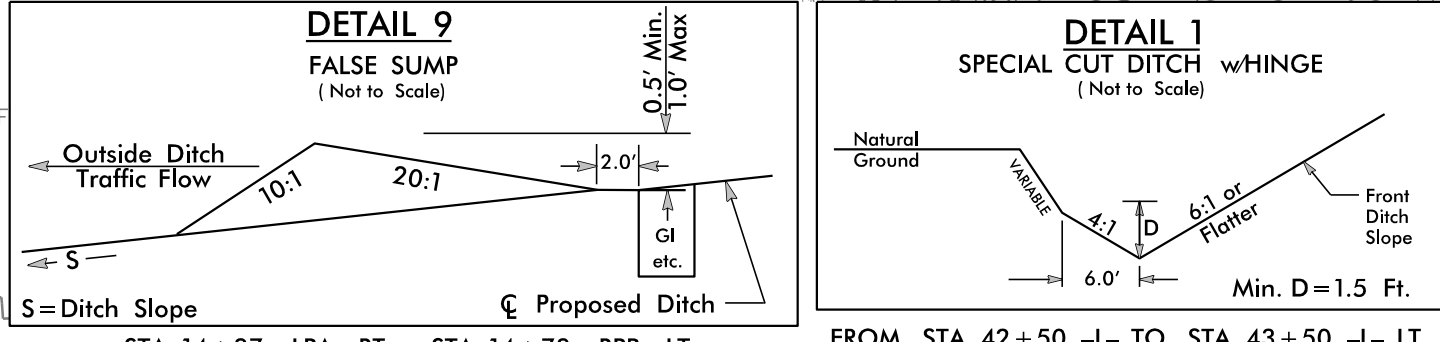
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C, AS DIRECTED TO AVOID IMPROVEMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



MATCHLINE -RBP- STA. 19+50 SEE SHEET 5

MATCHLINE -L- STA. 36+00 SEE SHEET 5

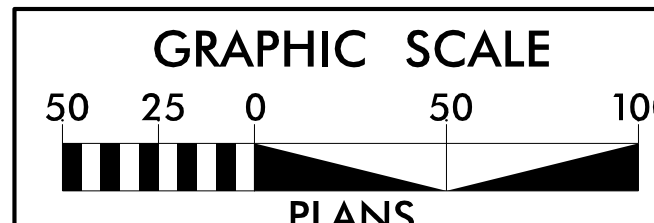
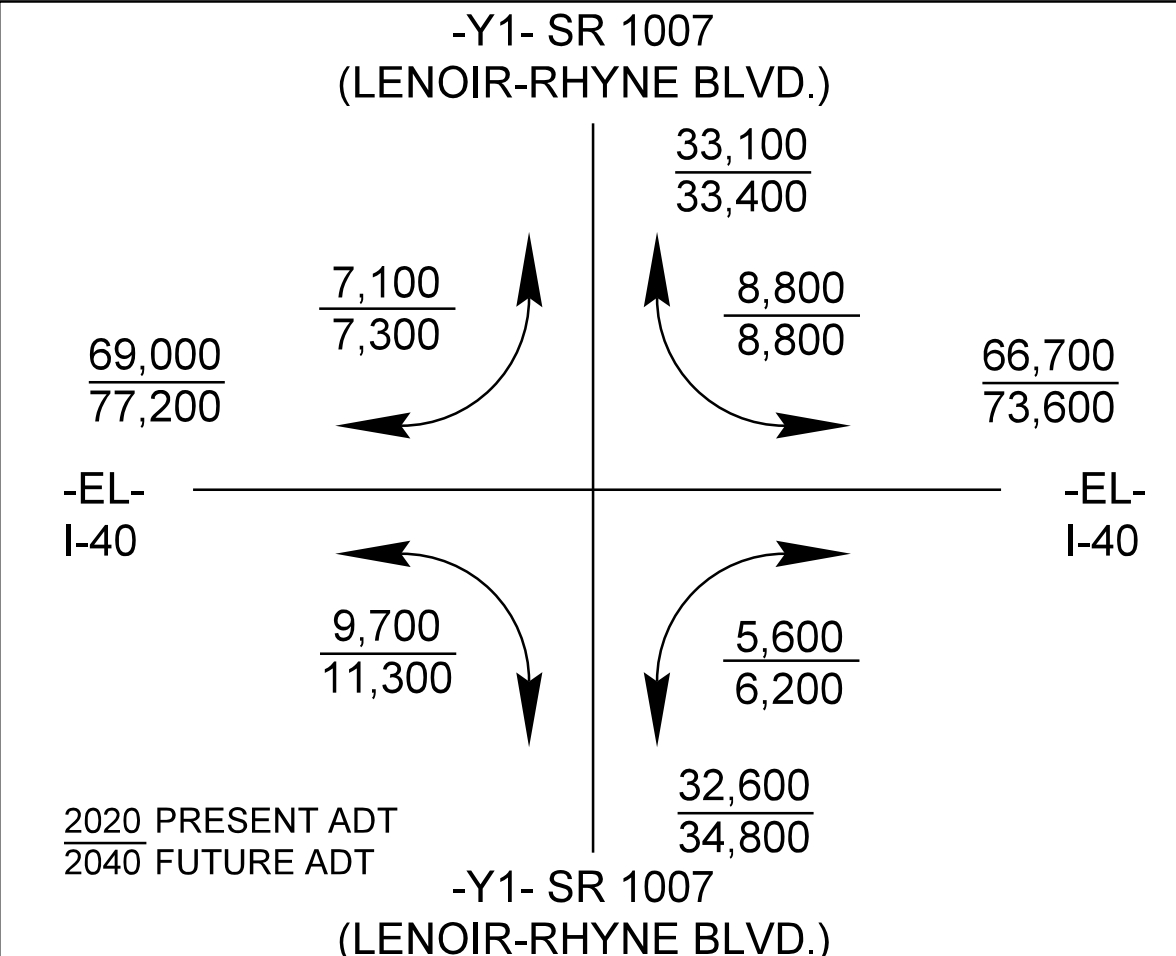
MATCHLINE -RPC- STA. 16+50 SEE SHEET 5



MATCHLINE -Y1- STA. 19+00 SEE SHEET 8

MATCHLINE -RPA- STA. 22+00 SEE SHEET 7

MATCHLINE -L- STA. 52+00 SEE SHEET 7

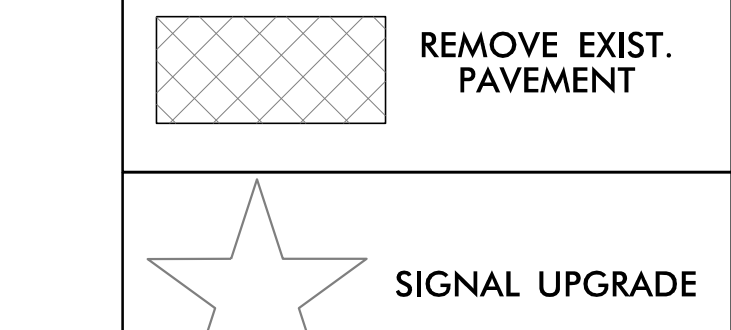


LOCATION: _____

TIP NO.: _____ COUNTY: _____

DESIGNED BY: _____

CHECKED BY: _____ DATE: _____



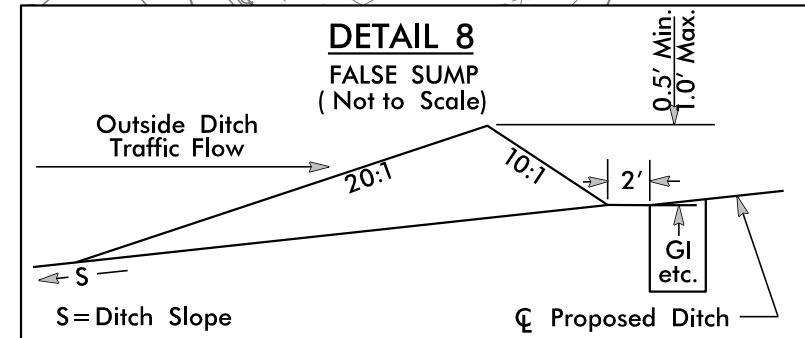
FOR -L- PROFILE SEE SHTS. 10-11
FOR -LPA- PROFILE SEE SHT. 12
FOR -RPA- PROFILE SEE SHT. 13
FOR -RBP- PROFILE SEE SHT. 14
FOR INTERSECTION DETAILS SEE SHTS. 28-2 & 28-3

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 06

PROJECT REFERENCE NO. 1-5716 SHEET NO. EC-06/CONST-06

R/W SHEET NO. _____

MATCHLINE -L- STA. 52+00 SEE SHEET 6

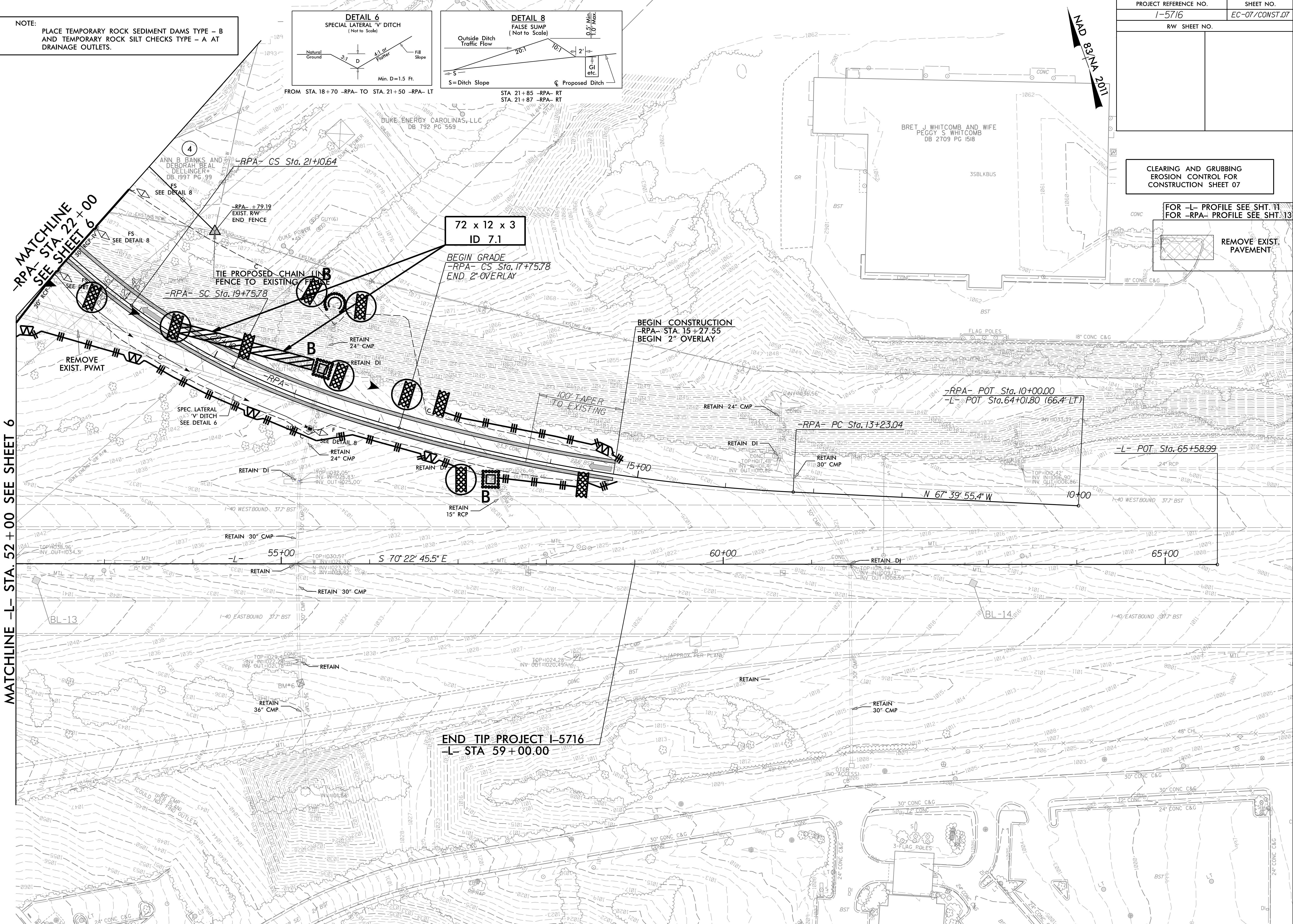


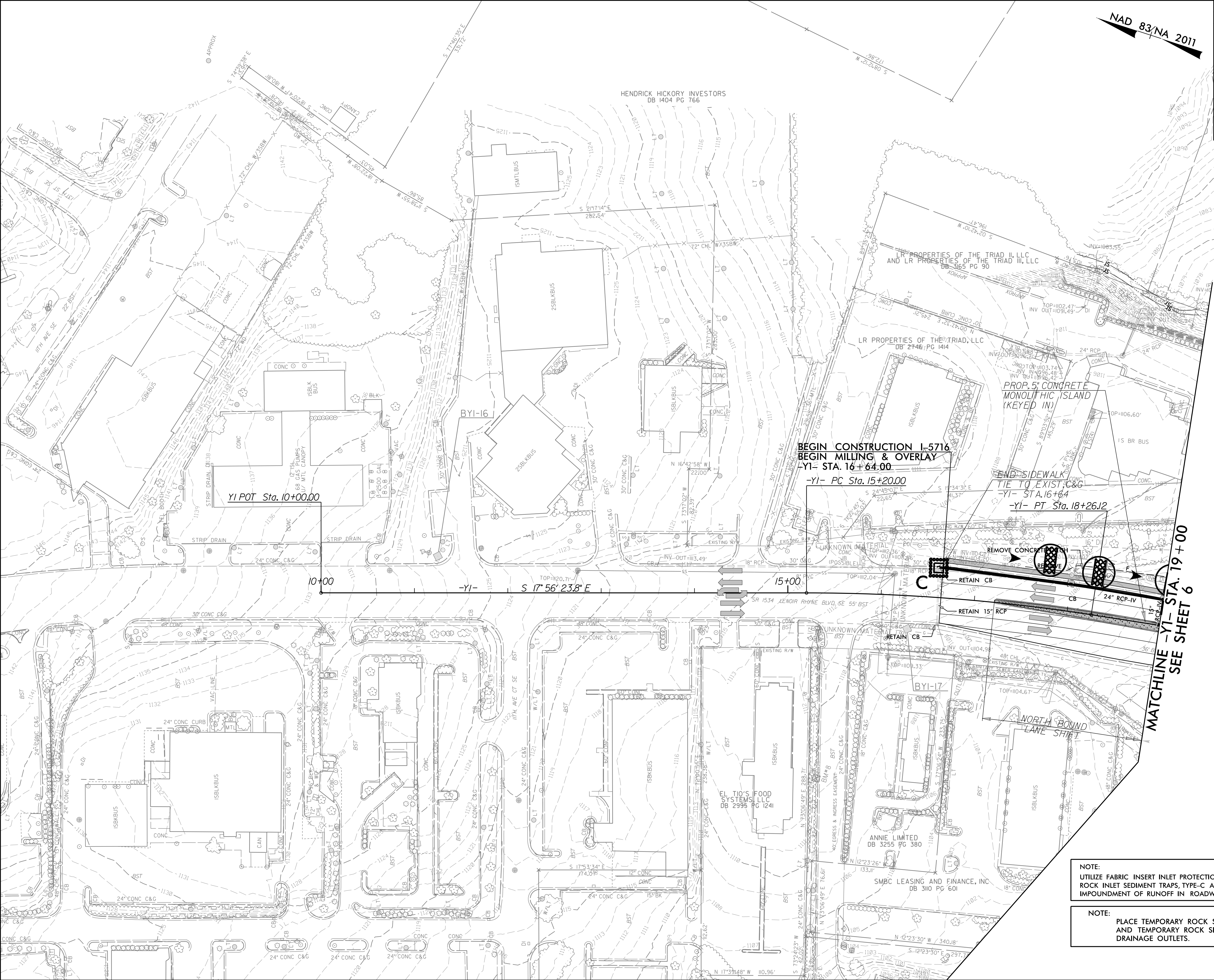
STA 21+85 -RPA- RT

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 07



REMOVE EXIST PAVEMENT





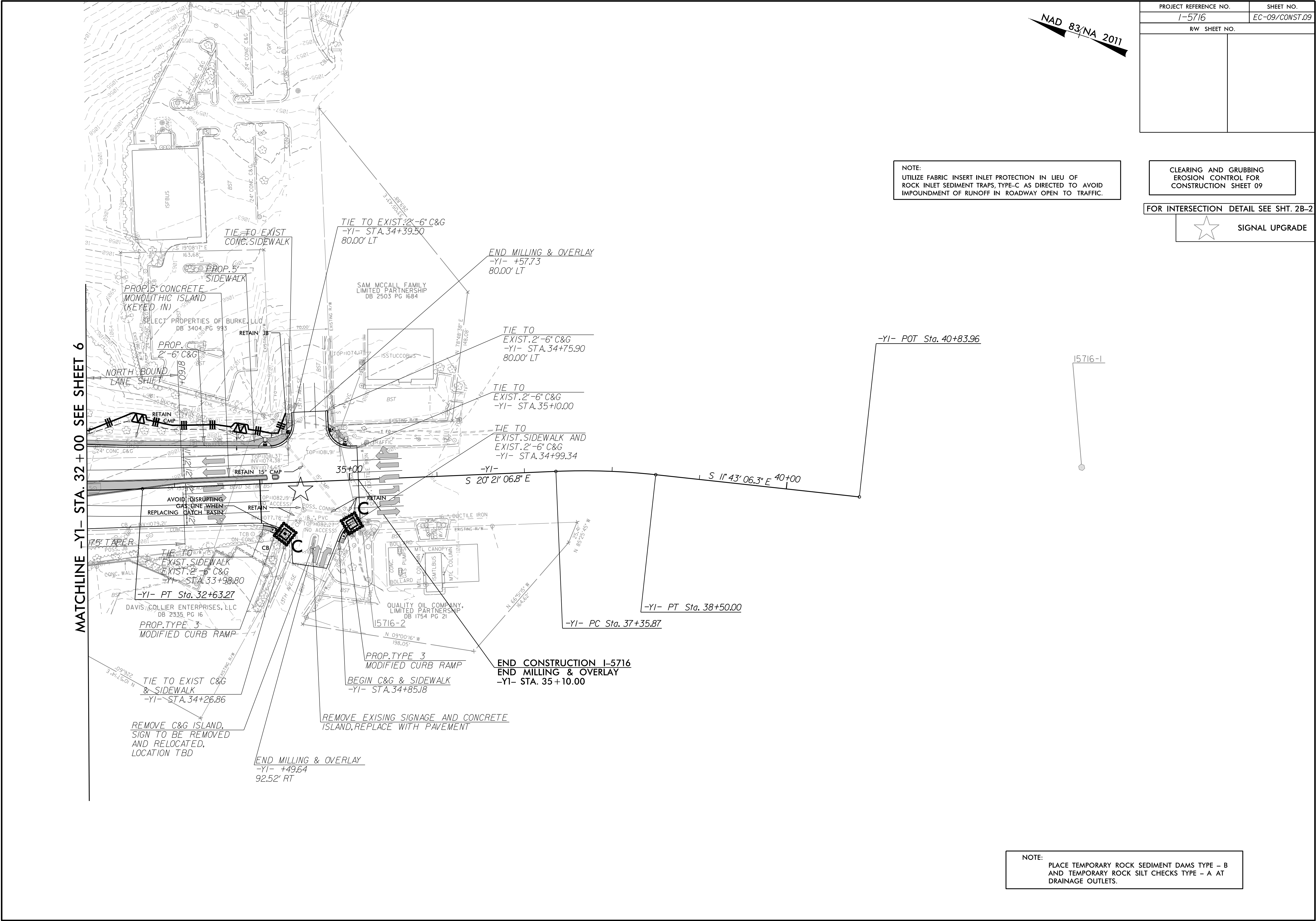
PROJECT REFERENCE NO.	SHEET NO.
1-5716	EC-08/CONST.08
RW SHEET NO.	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08

FOR INTERSECTION DETAIL SEE SHT. 2B-1

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.

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



PROJECT REFERENCE NO.	SHEET NO.
1-5716	EC-09/CONST.09
RW SHEET NO.	

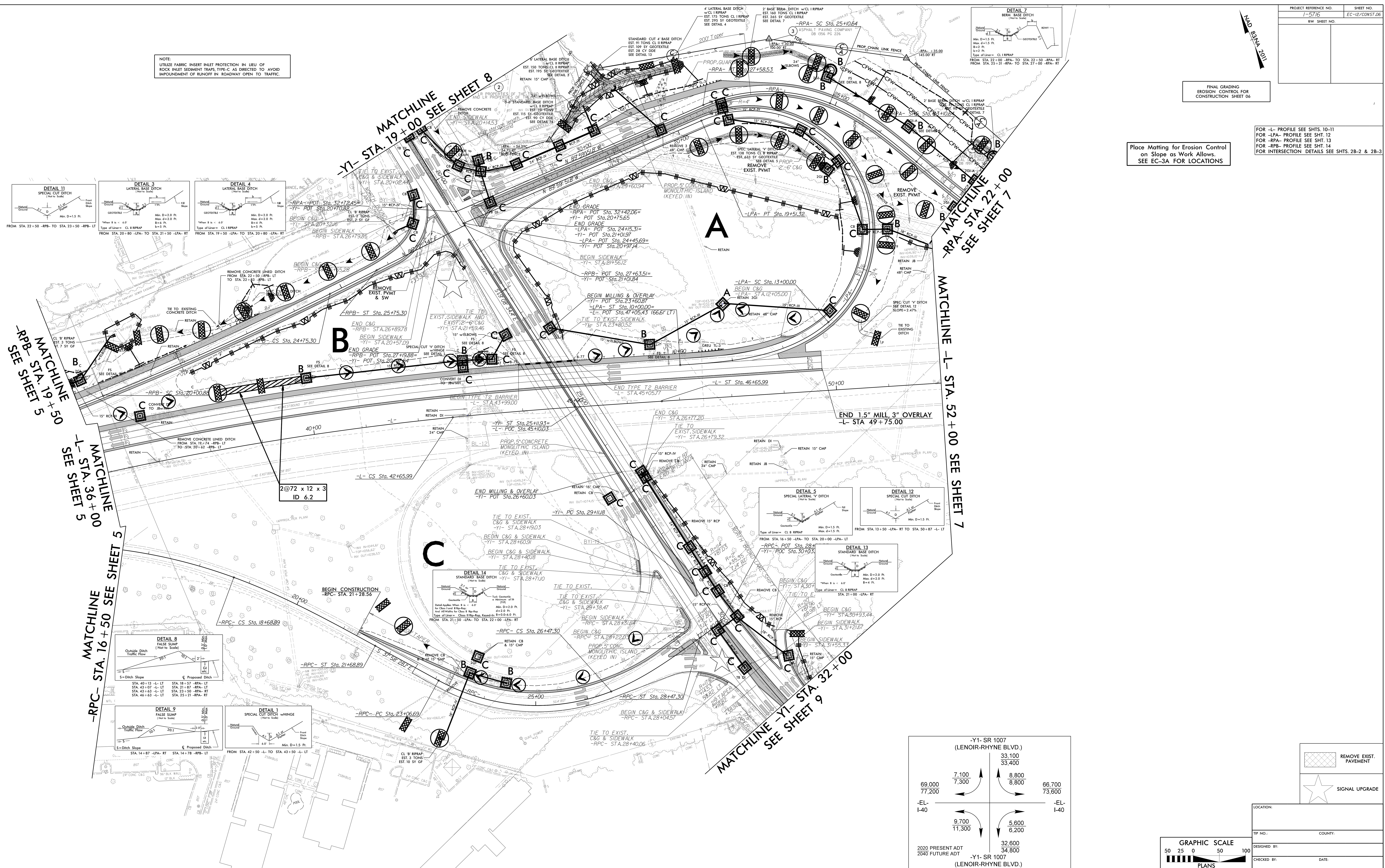
NOTE:
UTILIZE FABRIC. INSERT INLET PROTECTION IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09

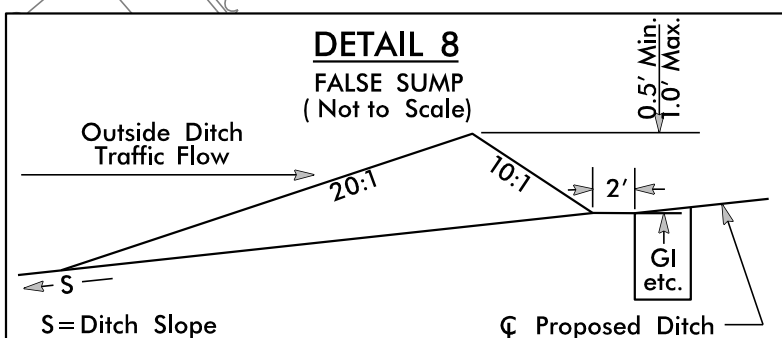
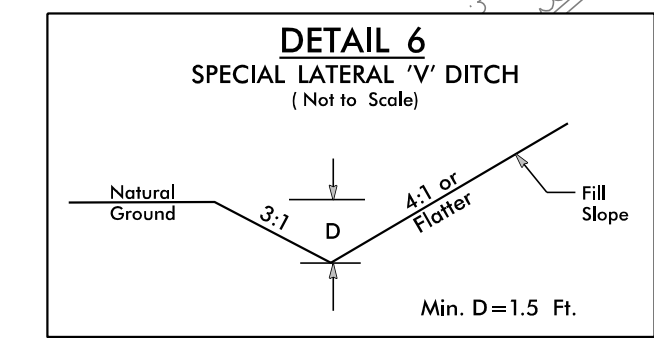
FOR INTERSECTION DETAIL SEE SHT. 2B-2

SIGNAL UPGRADE

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



Place Matting for Erosion Control
on Slope as Work Allows.
SEE EC-3A FOR LOCATIONS



PROJECT REFERENCE NO.	SHEET NO.
1-5716	EC-13/CONST.07
RW SHEET NO.	

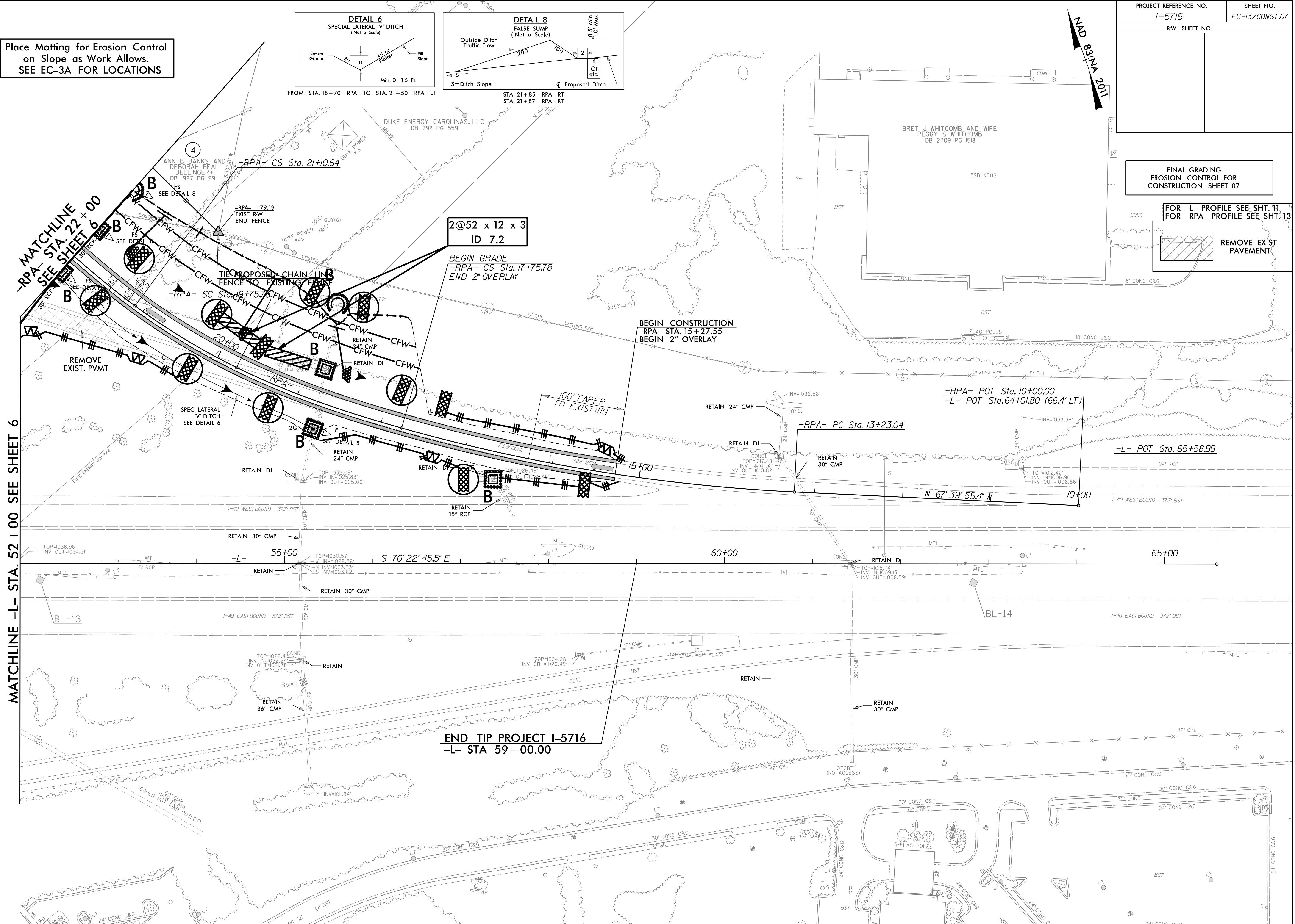
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

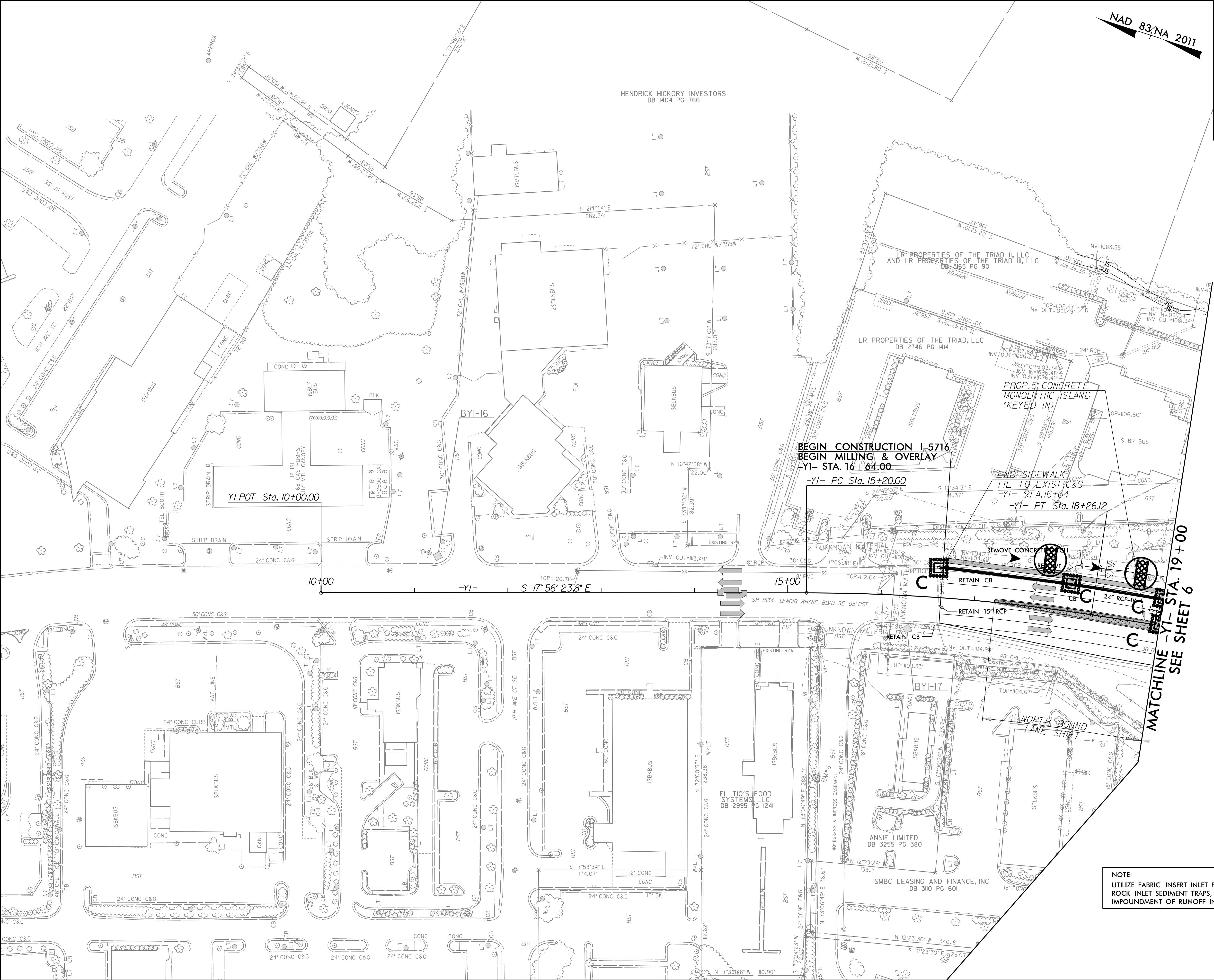
FOR -L- PROFILE SEE SHT. 11
FOR -RPA- PROFILE SEE SHT. 13

REMOVE EXIST.
PAVEMENT

MATCHLINE -L- STA. 52+00 SEE SHEET 6

MATCHLINE
-RPA- STA. 22+00
SEE SHEET 6





PROJECT REFERENCE NO.	SHEET NO.
1-5716	EC-14/CONST.08
RW SHEET NO.	

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08

FOR INTERSECTION DETAIL SEE SHT. 2B-1

NAD 83/NA 2011

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.

NAD 83/NA 2011

PROJECT REFERENCE NO.	SHEET NO.
1-5716	EC-15/CONST.09
RW SHEET NO.	

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.

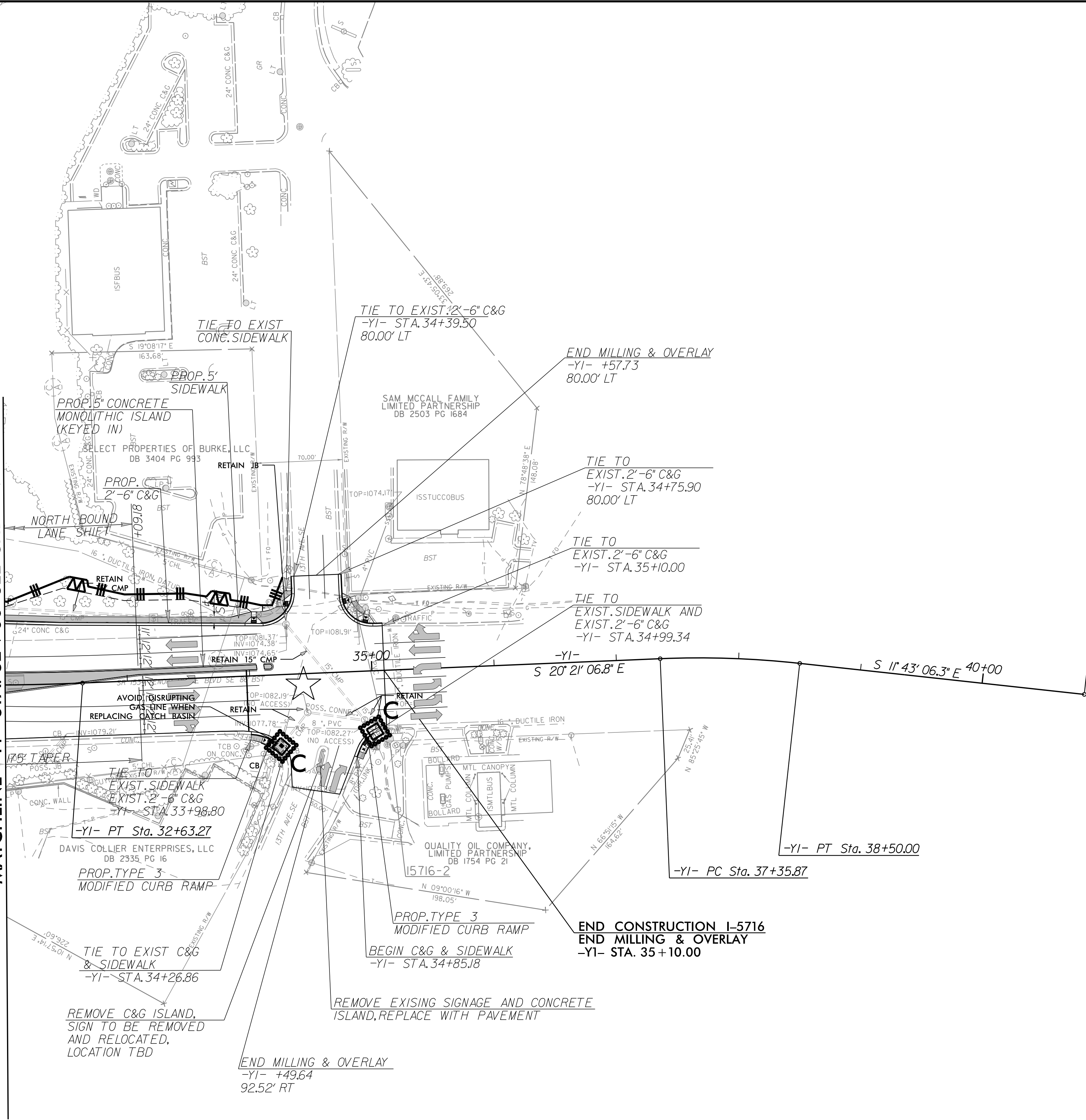
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09

FOR INTERSECTION DETAIL SEE SHT. 2B-2



SIGNAL UPGRADE

MATCHLINE -YI- STA. 32+00 SEE SHEET 6



-YI- POT Sta. 40+83.96

15716-1

-YI- PT Sta. 38+50.00

-YI- PC Sta. 37+35.87

END CONSTRUCTION I-5716
END MILLING & OVERLAY
-YI- STA. 35+10.00

BEGIN C&G & SIDEWALK
-YI- STA. 34+85.18

END MILLING & OVERLAY
-YI- +49.64
92.52' RT

REMOVE C&G ISLAND,
SIGN TO BE REMOVED
AND RELOCATED,
LOCATION TBD

PROP. TYPE 3
MODIFIED CURB RAMP

-YI- PT Sta. 32+63.27

EXIST. SIDEWALK
EXIST. 2'-6" C&G
-YI- STA. 33+98.80

TIE TO EXIST. SIDEWALK
EXIST. 2'-6" C&G

AVOID DISRUPTING
GAS LINE WHEN
REPLACING CATCH BASIN

RETAIN 15" CMP

RETAIN 15" CMP

RETAIN 15" CMP

RETAIN 15" CMP

RETAIN 15" CMP

RETAIN 15" CMP

RETAIN 15" CMP

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