

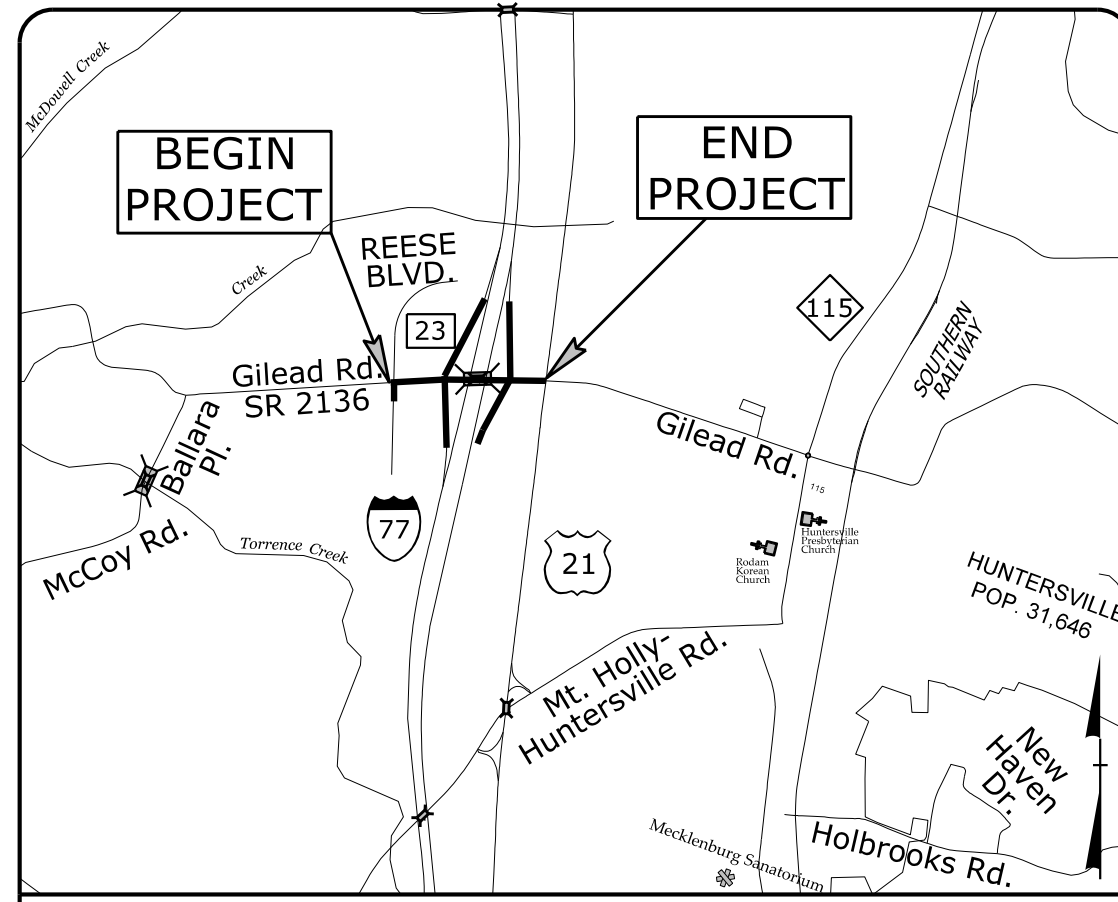
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with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

TIP PROJECT: I-5714

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP
NOT TO SCALE

RIGHT OF WAY PLANS

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	
JULY 31, 2017	
LETTING DATE:	
JULY 17, 2018	

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

MECKLENBURG COUNTY

LOCATION: I-77 AT SR 2136 (GILEAD ROAD) INTER-CHANGE, UPGRADE EXISTING DIAMOND INTERCHANGE TO DIVERGING DIAMOND

TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURE, SIGNALS & SIGNING

END CONSTRUCTION
-Y10- STA. 11+14.47

END CONSTRUCTION
-RPB- STA. 21+50.44

END CONSTRUCTION
-RPA- STA. 23+61.84

PROPOSED BRIDGE

BEG. PROP. BRIDGE
-YEB- STA. 25+34±

BEGIN TIP PROJECT I-5714
-Y- STA. 9+53.65

BEGIN CONSTRUCTION
-Y11- STA. 7+54.00

RETAIN EXISTING BRIDGE

BEGIN CONSTRUCTION
-RPC- STA. 13+28.18

END PROP. BRIDGE
-YEB- STA. 28+85±
END TIP PROJECT I-5714
-Y- STA. 35+31.01

BEGIN CONSTRUCTION
-RPD- STA. 18+13.17

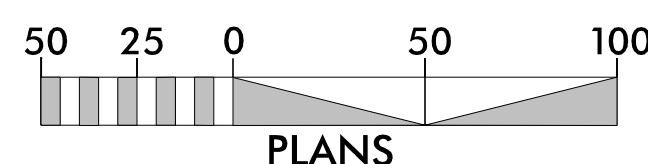
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle/Coir Fiber Wattle	W/CFF
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	W/CFF-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

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

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF HUNTERSVILLE.
THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGE.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

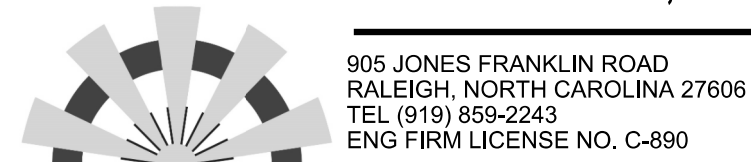
GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared in the Office of:

SUNGATE DESIGN GROUP, P.A.



Designed by:

Matthew C. Edwards, EI
NAME

3992
LEVEL III CERTIFICATION NO.

Reviewed in the Office of:

ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Reviewed by:

Wes Chandler, PE

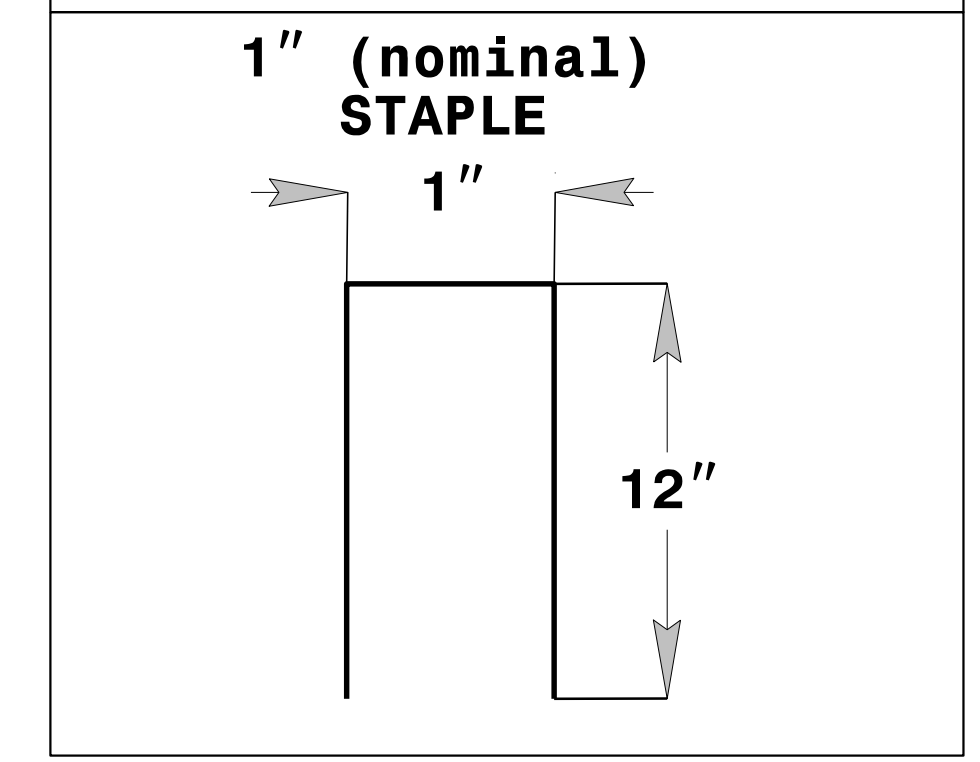
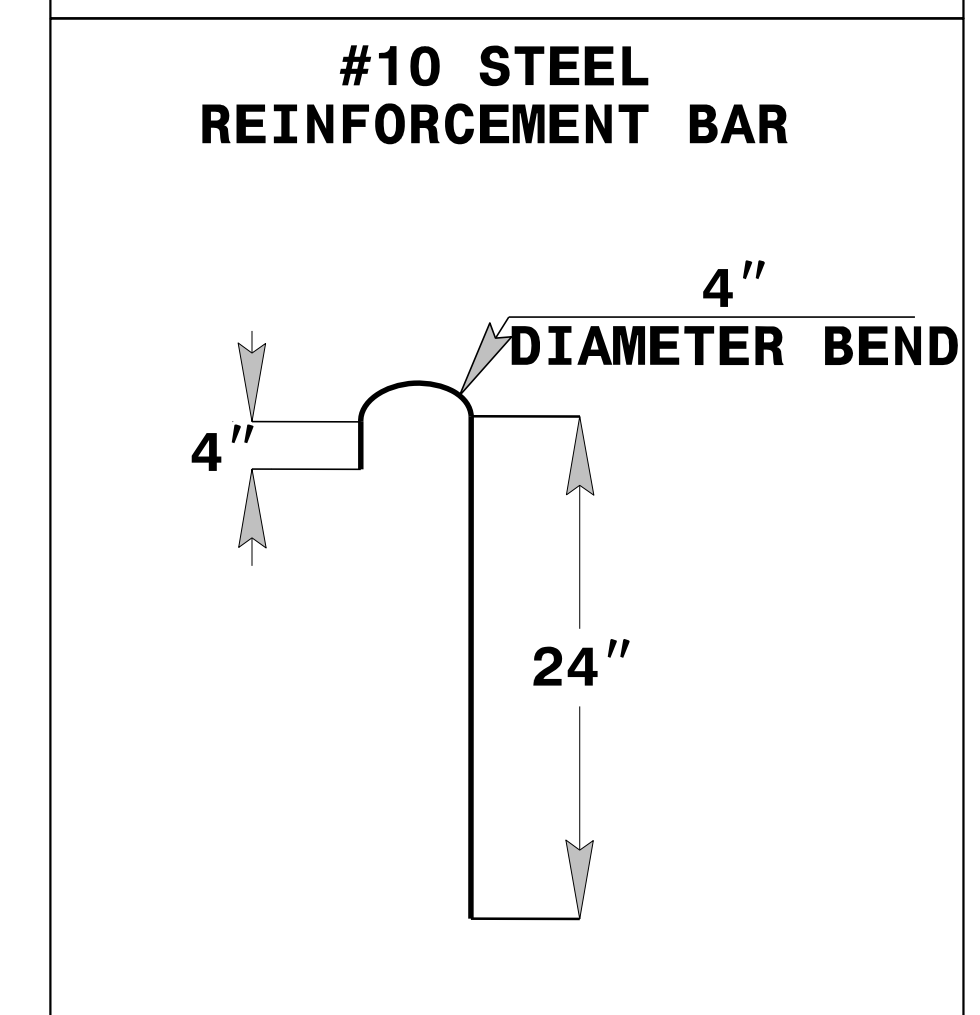
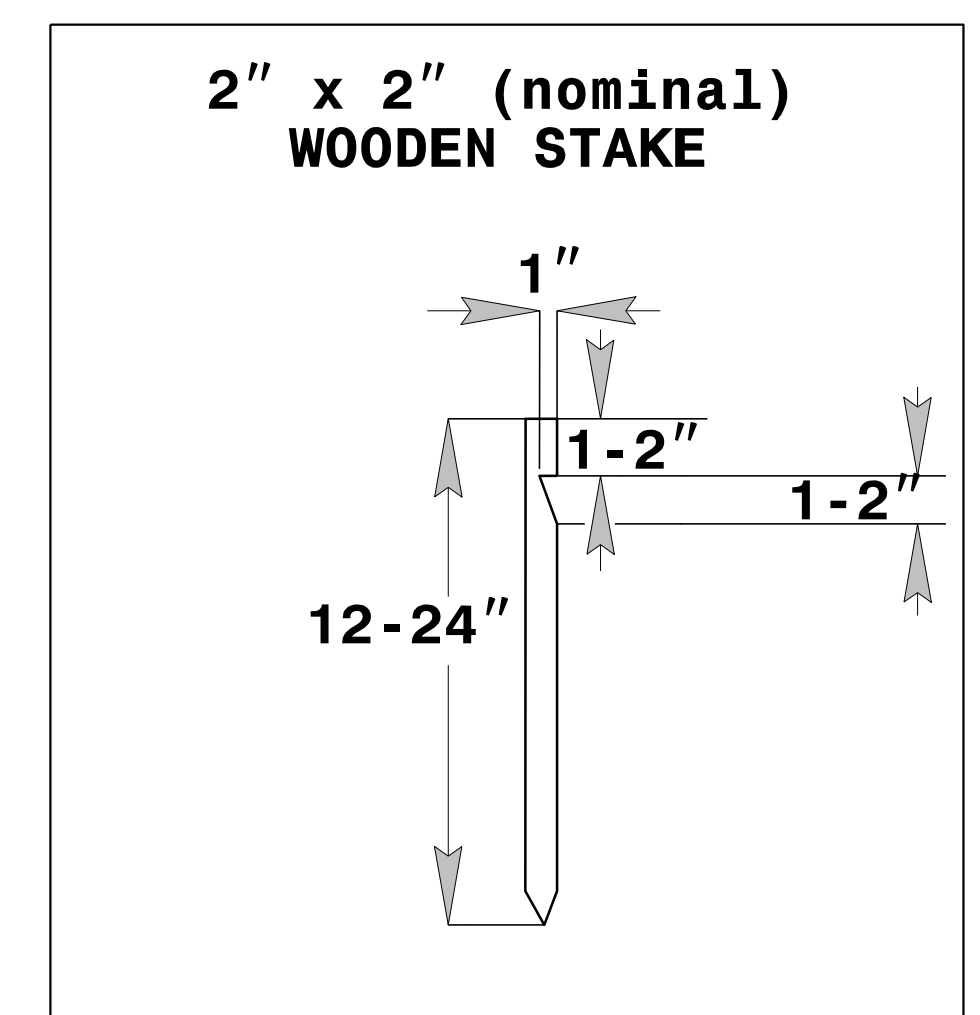
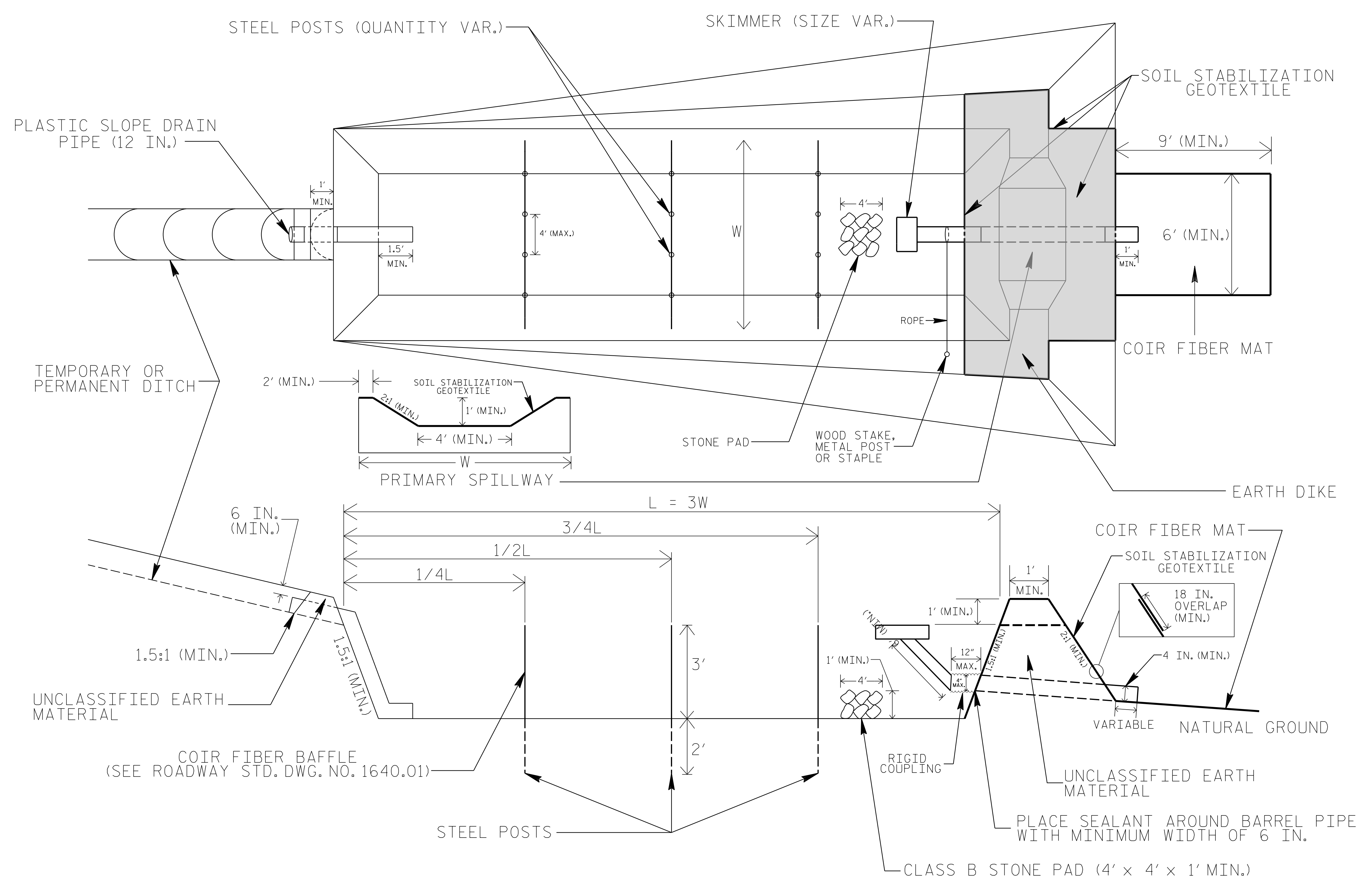
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

PROJECT REFERENCE NO. 1-5714	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

PROJECT REFERENCE NO. 1-5714	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

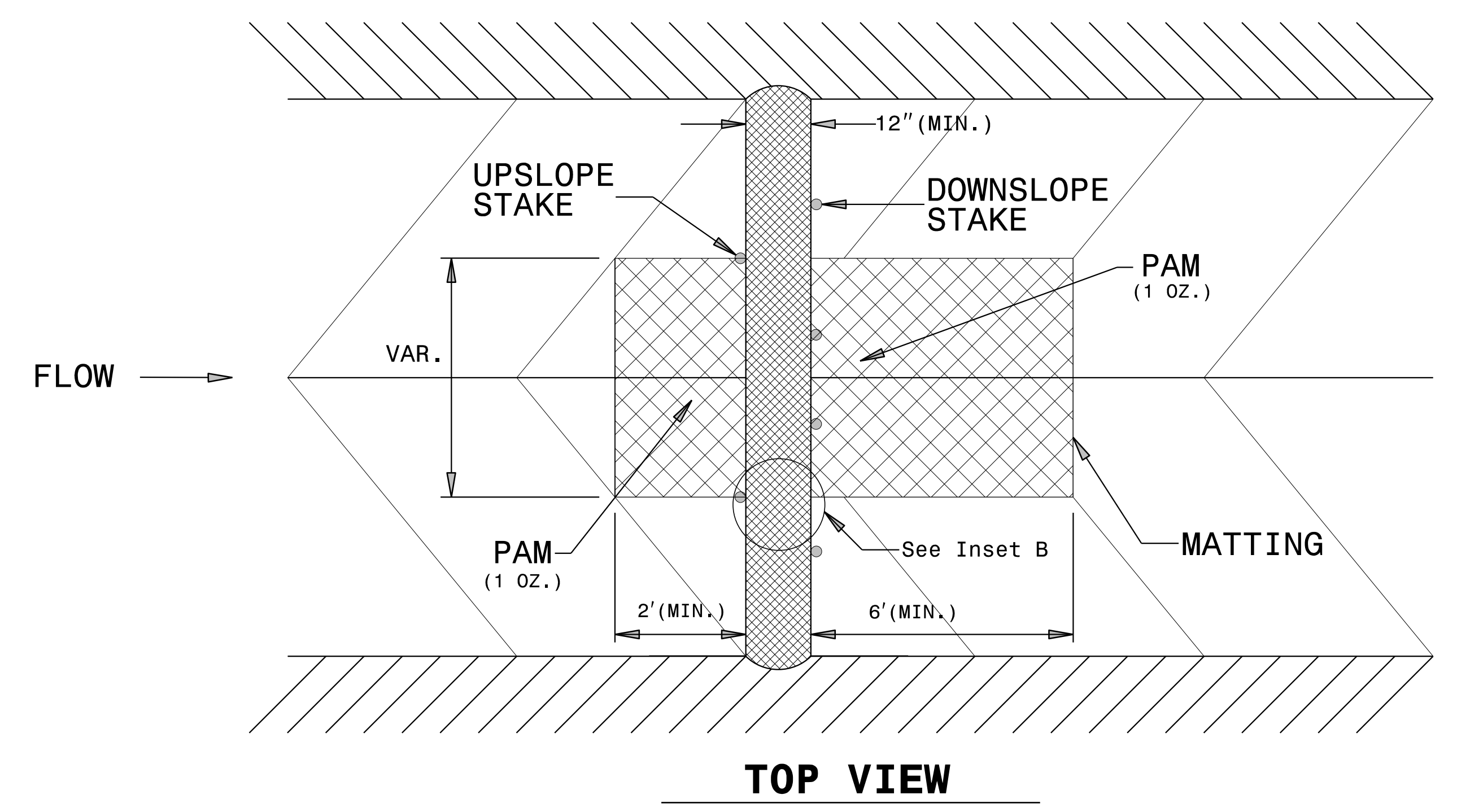
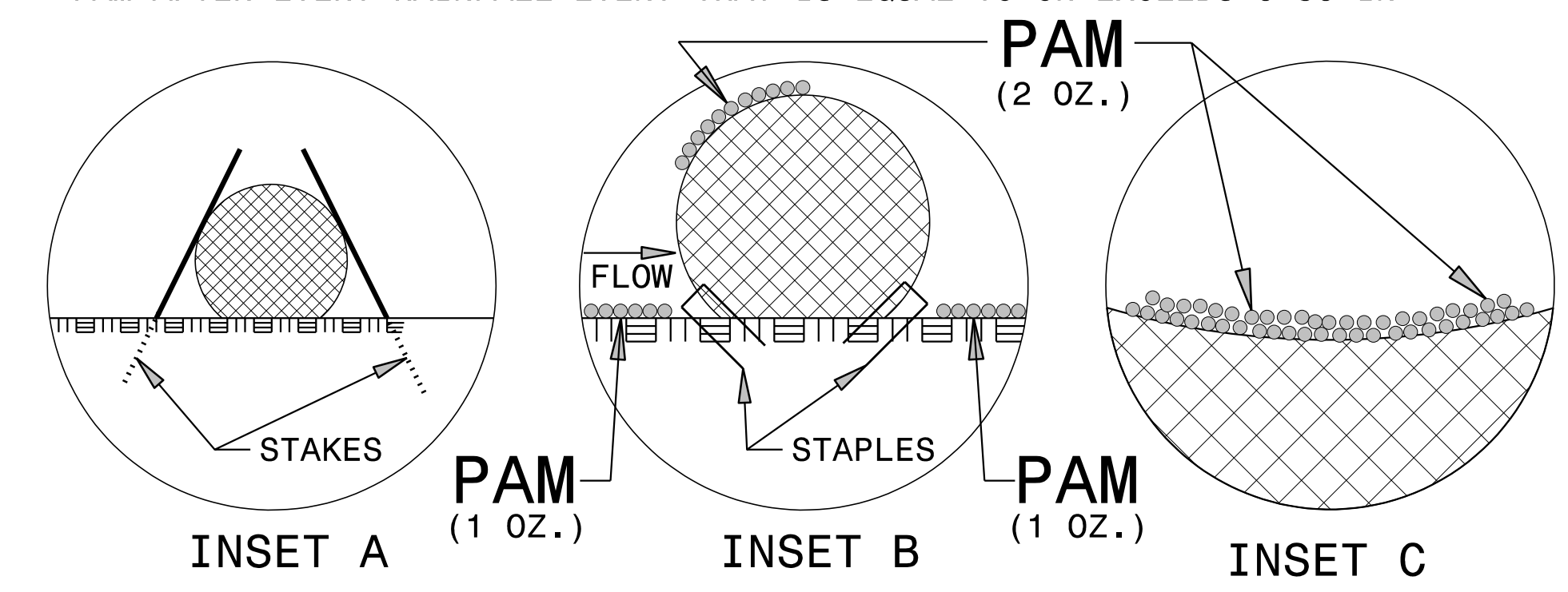
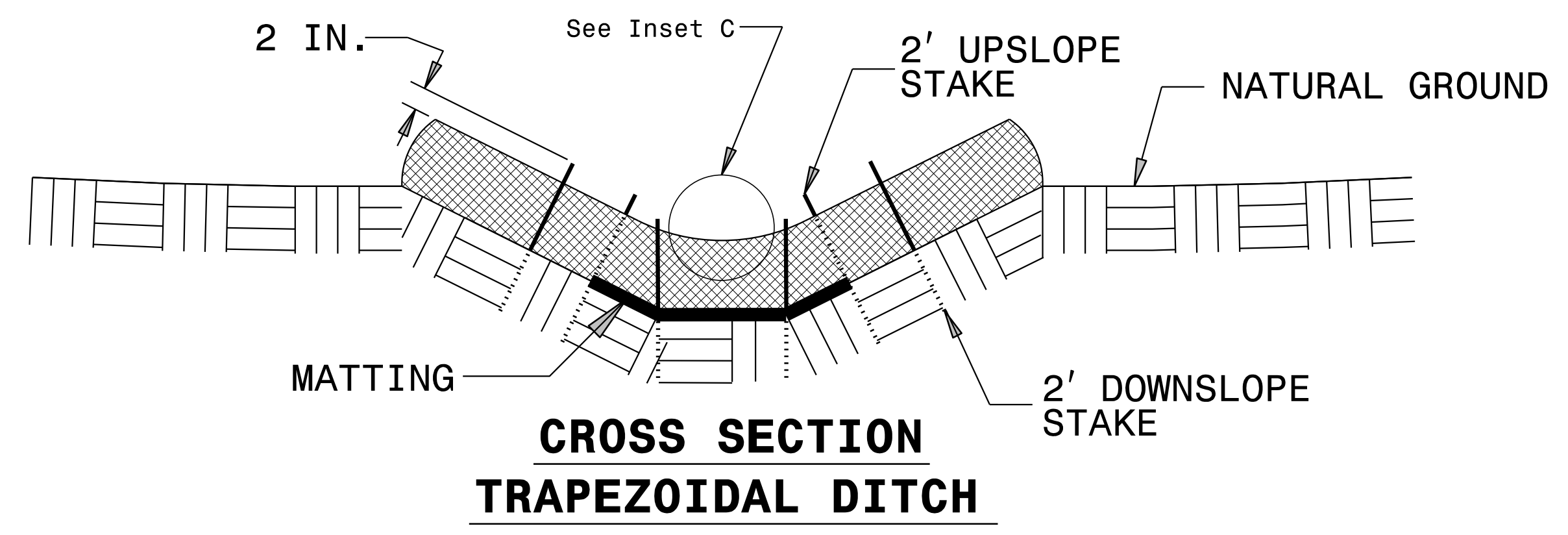
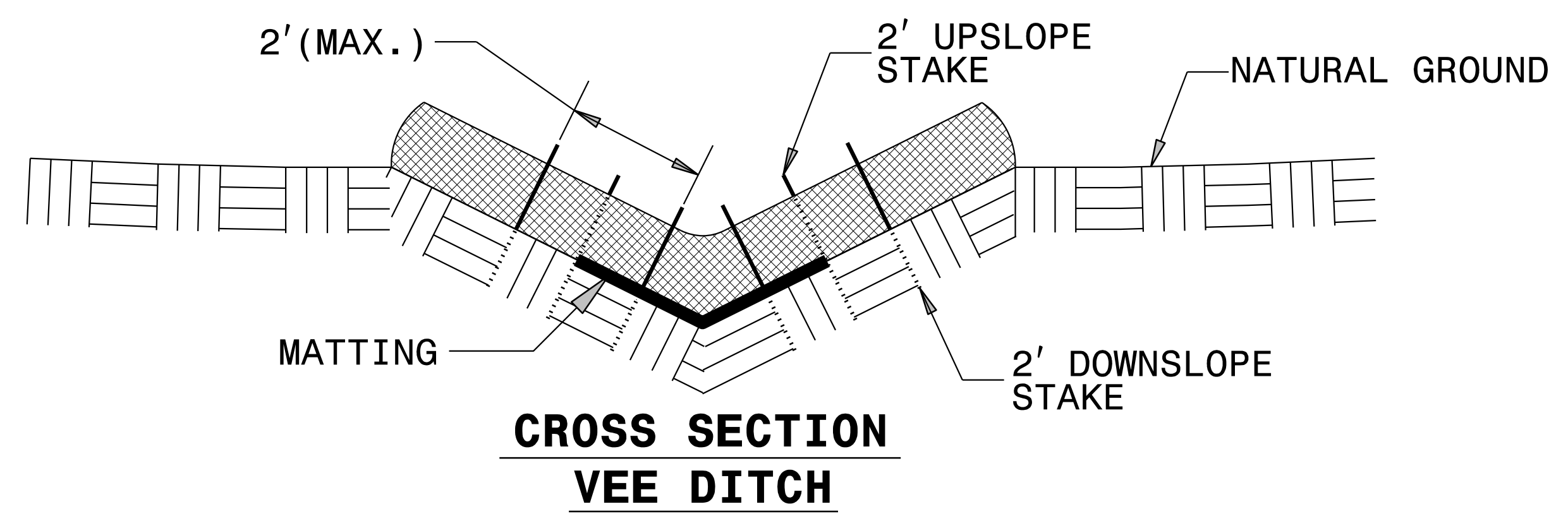
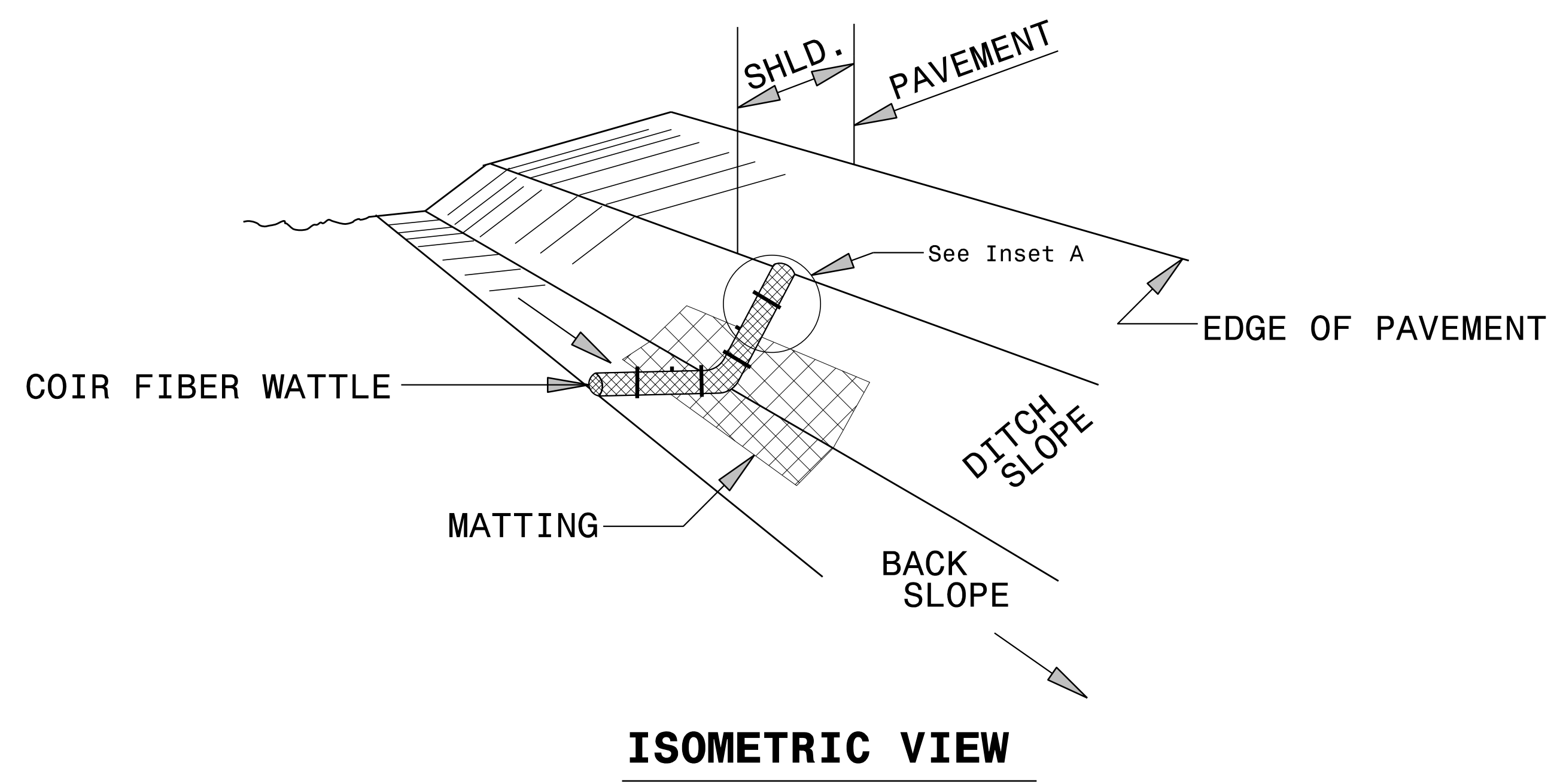
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

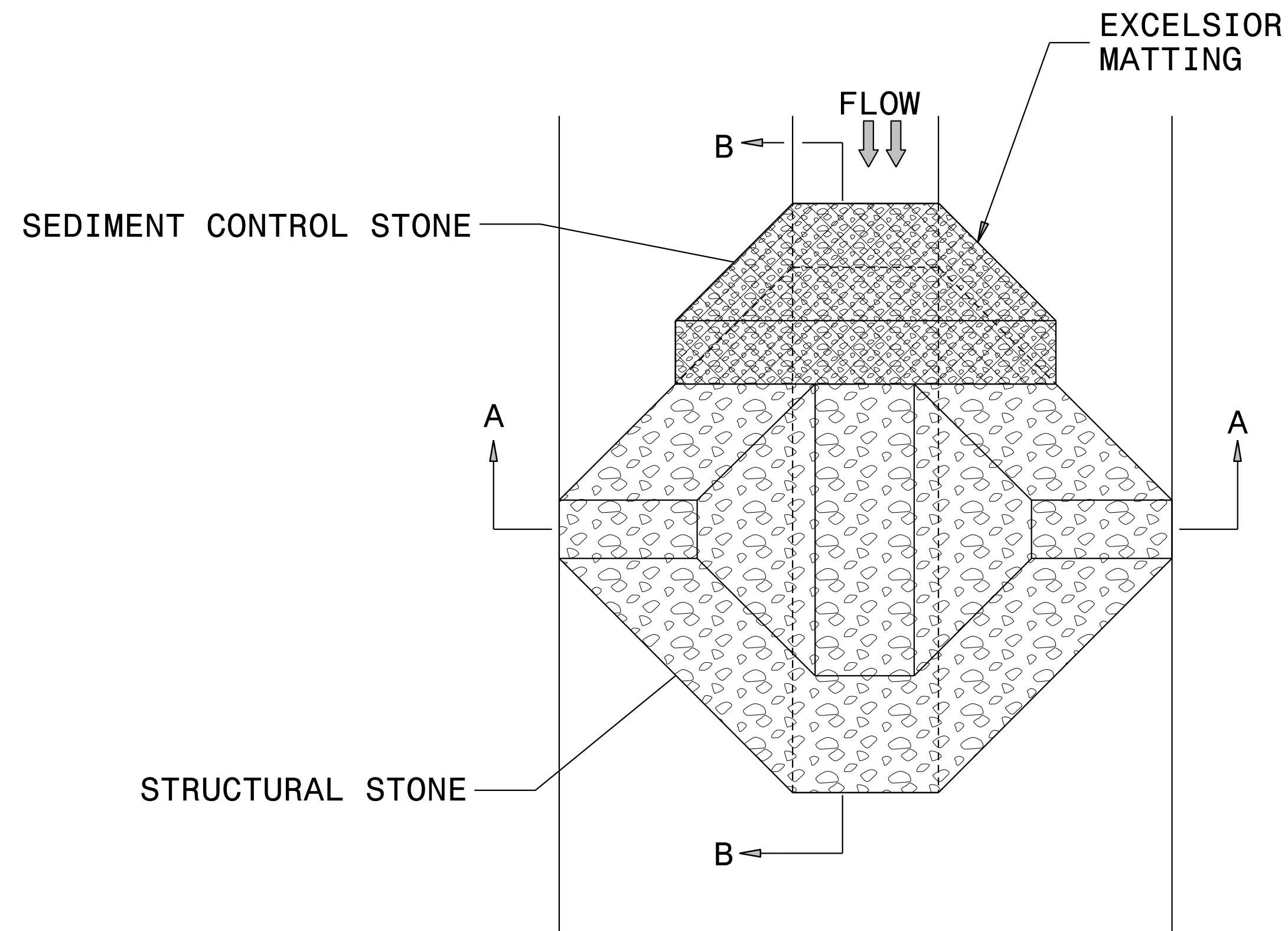
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

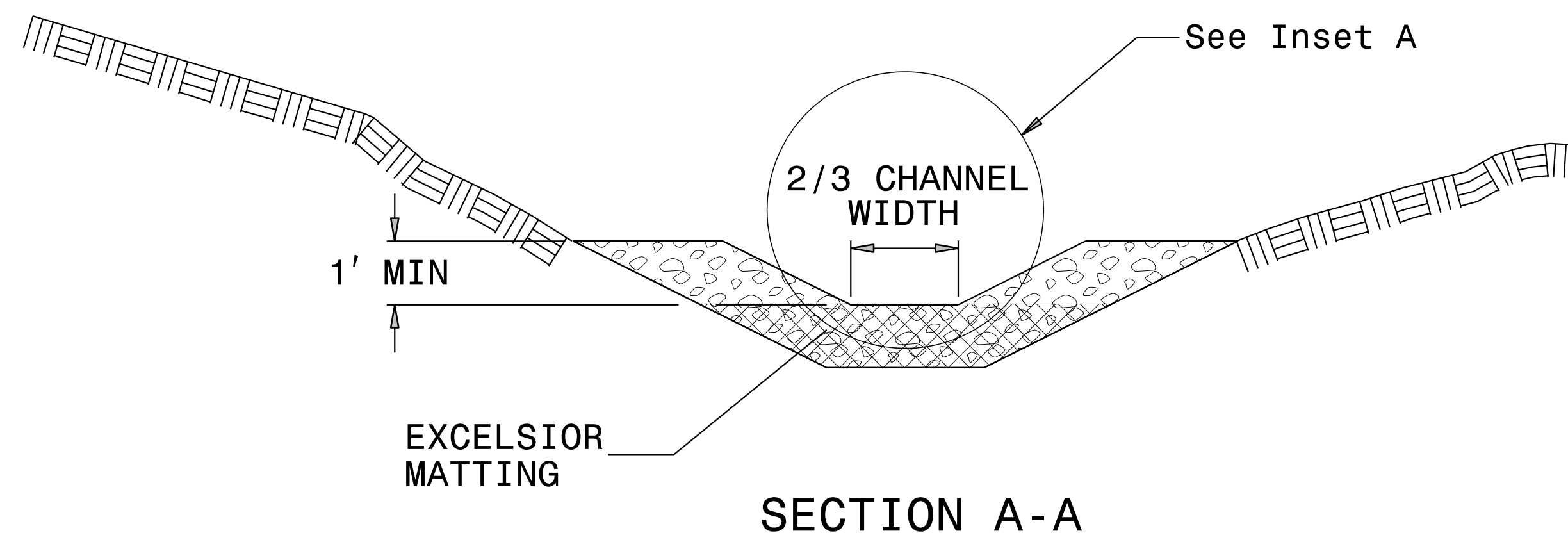


PROJECT REFERENCE NO. 1-5714	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



SECTION A-A

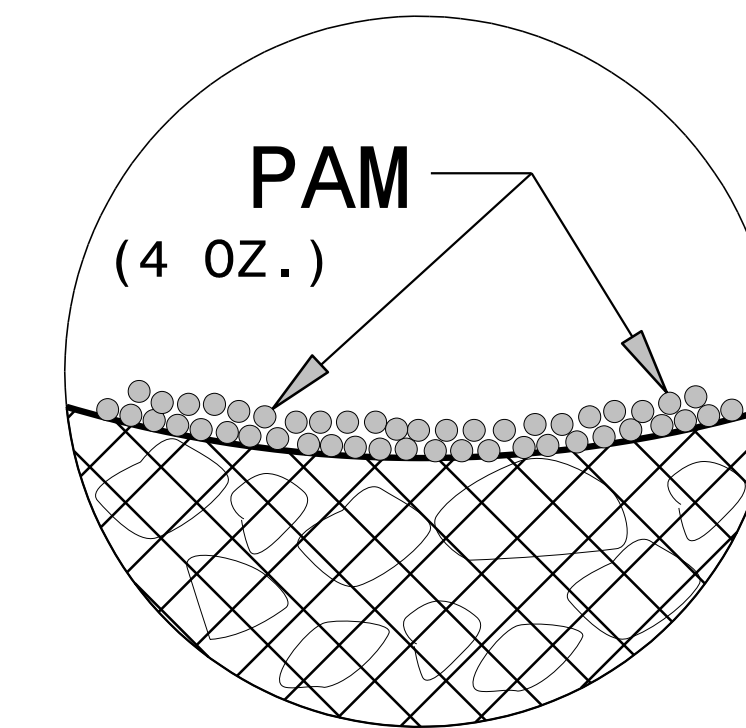
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

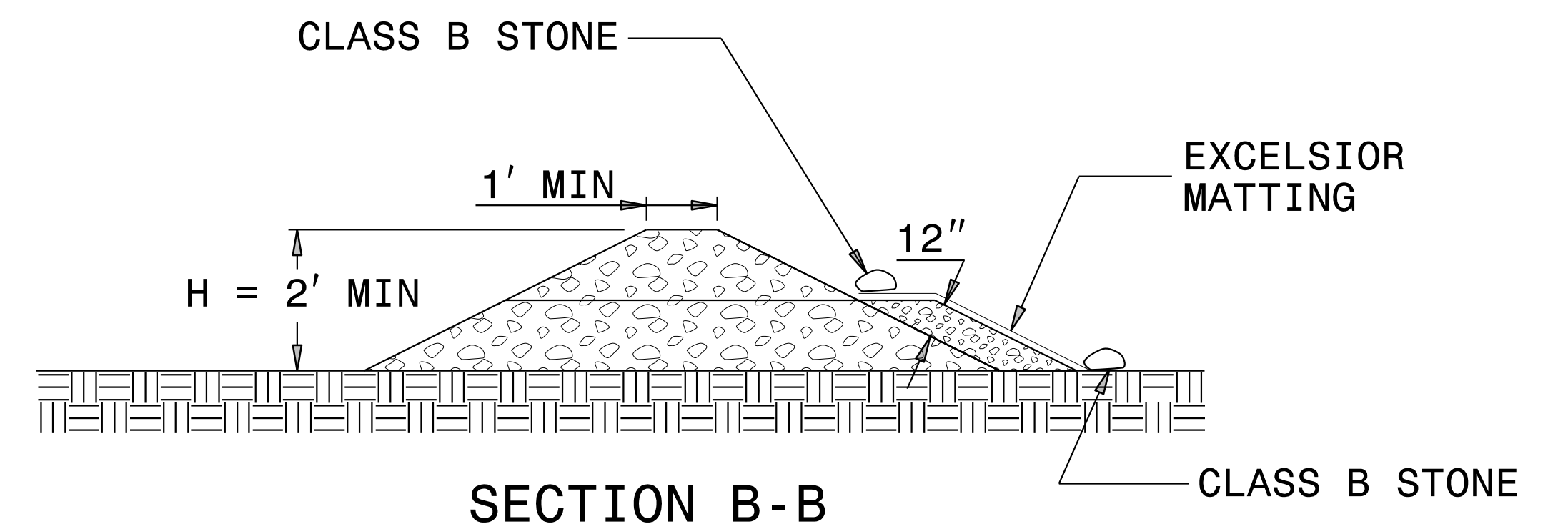
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>1-5714</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

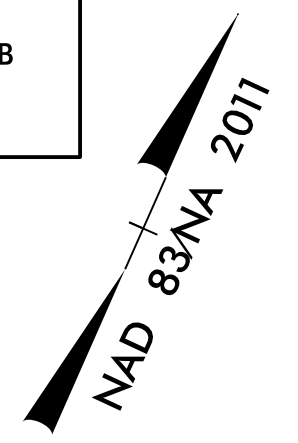
SOIL STABILIZATION TIMEFRAMES

<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 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

2018 ADT 2040	RESE BLVD	11,400 13,000	
23,800 31,300	2,200 2,400	6,500 7,700	35,800 47,100
SR 2136 (GILEAD RD)	1,600 2,100	9,200 12,600	
		13,500 17,600	

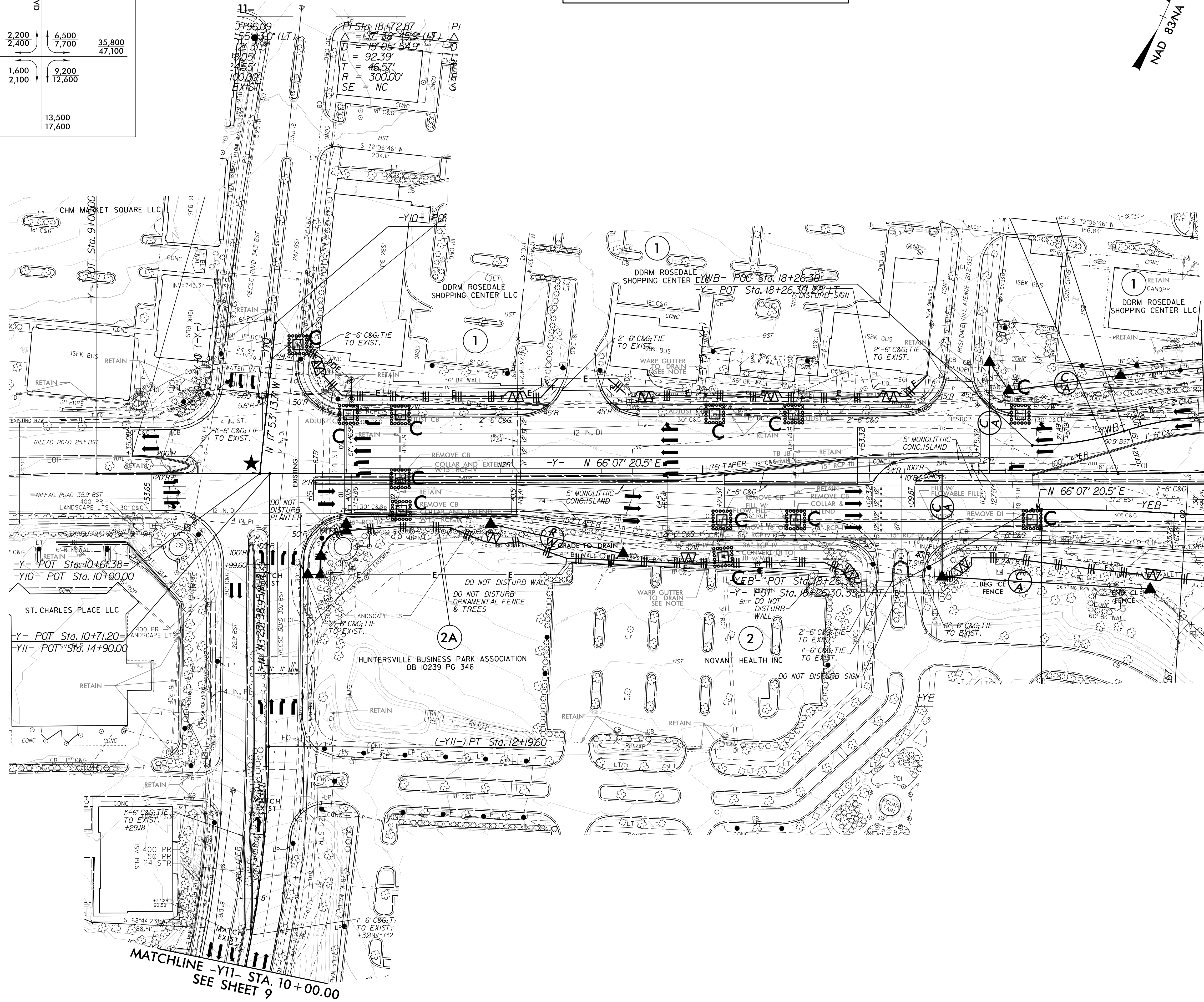
NOTE: TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

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



PROJECT REFERENCE NO. 1-5714	SHEET NO. EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

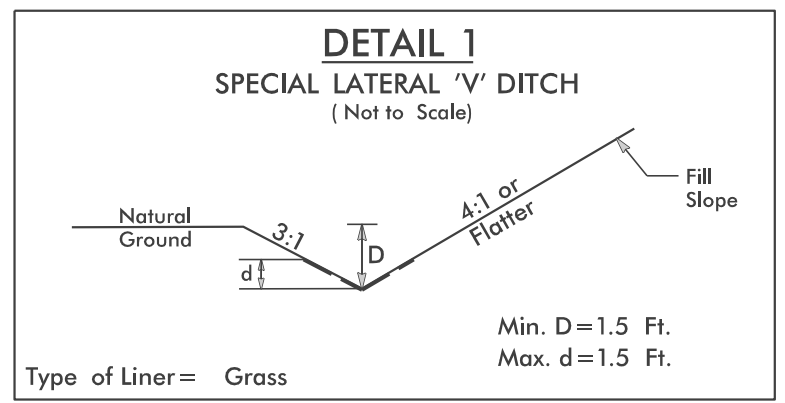


MATCHLINE -YWB-
STA. 20+00.00
SEE SHEET 5

MATCHLINE -YEB-
STA. 20+00.00
SEE SHEET 5

MATCHLINE -Y11- STA. 10+00.00
SEE SHEET 9

2018 ADT	103,300			
2040	127,700			
	9,400	3,200	32,200	
40,300	12,100	5,200	45,900	
SR 2136 (GILEAD RD.)	11,300	9,400		
	11,900	12,400		
	111,200			
	134,700			

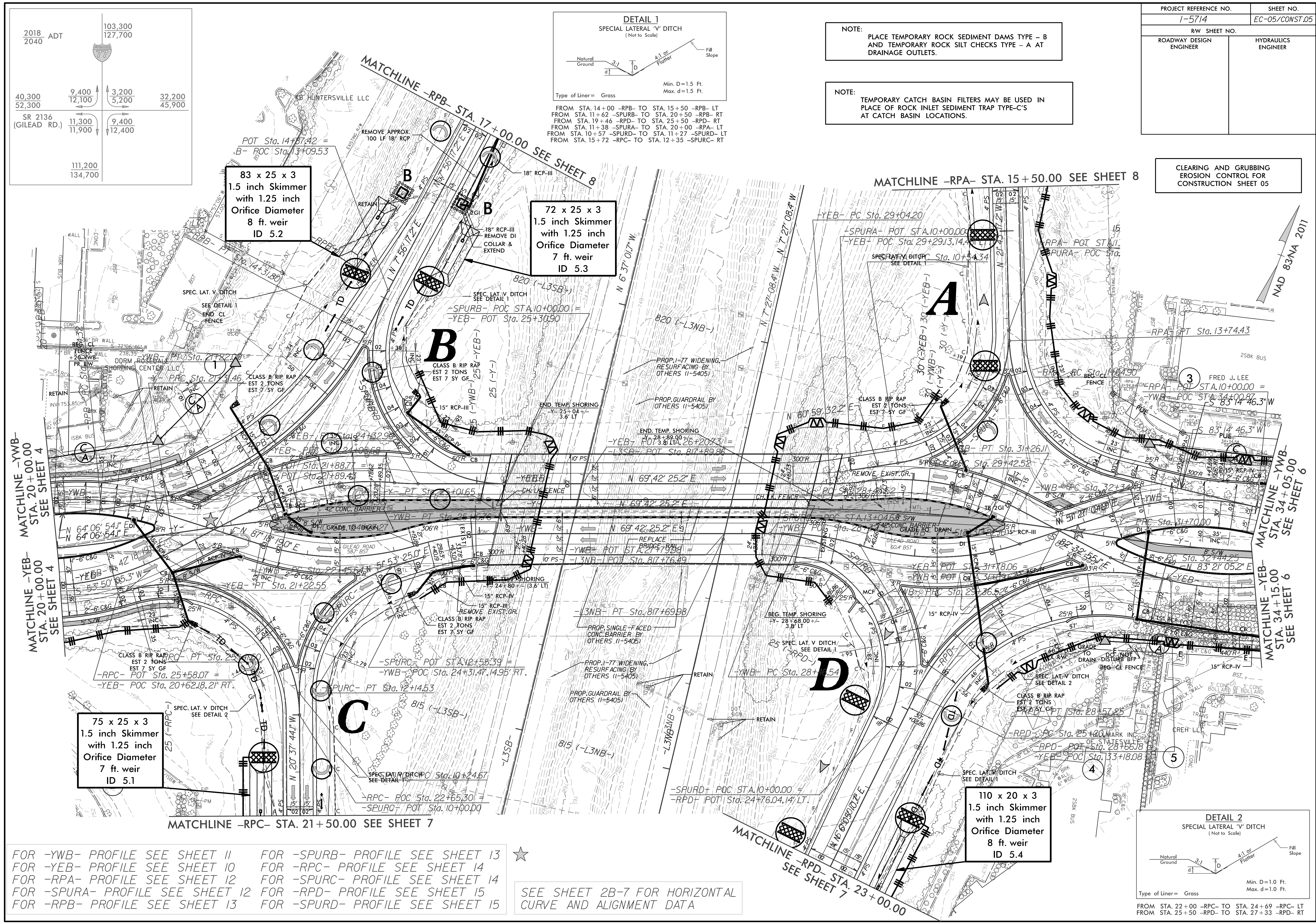


NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE: TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 05

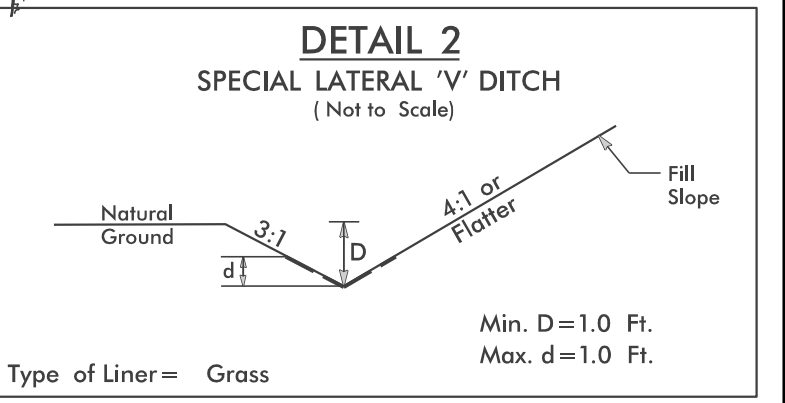


83 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 5.2

72 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 5.3

75 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 5.1

110 x 20 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 5.4



FOR -YWB- PROFILE SEE SHEET 11
FOR -YEB- PROFILE SEE SHEET 10
FOR -RPA- PROFILE SEE SHEET 12
FOR -SPURA- PROFILE SEE SHEET 12
FOR -RPB- PROFILE SEE SHEET 13
FOR -SPURB- PROFILE SEE SHEET 13
FOR -RPC- PROFILE SEE SHEET 14
FOR -SPURC- PROFILE SEE SHEET 14
FOR -RPD- PROFILE SEE SHEET 15
FOR -SPURD- PROFILE SEE SHEET 15

★ SEE SHEET 2B-7 FOR HORIZONTAL CURVE AND ALIGNMENT DATA

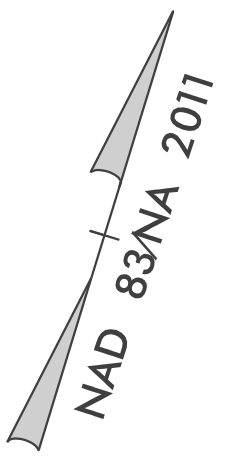
FROM STA. 22+00 -RPC- TO STA. 24+69 -RPC- LT
FROM STA. 25+50 -RPD- TO STA. 27+33 -RPD- RT

2018 ADT		2040 ADT	
32,200	9,700	3,100	20,600
45,900	14,900	7,700	33,500
		SR 2136 (GILEAD RD)	
7,300	2,100	2,100	18,500
8,000	2,800	2,800	50,000

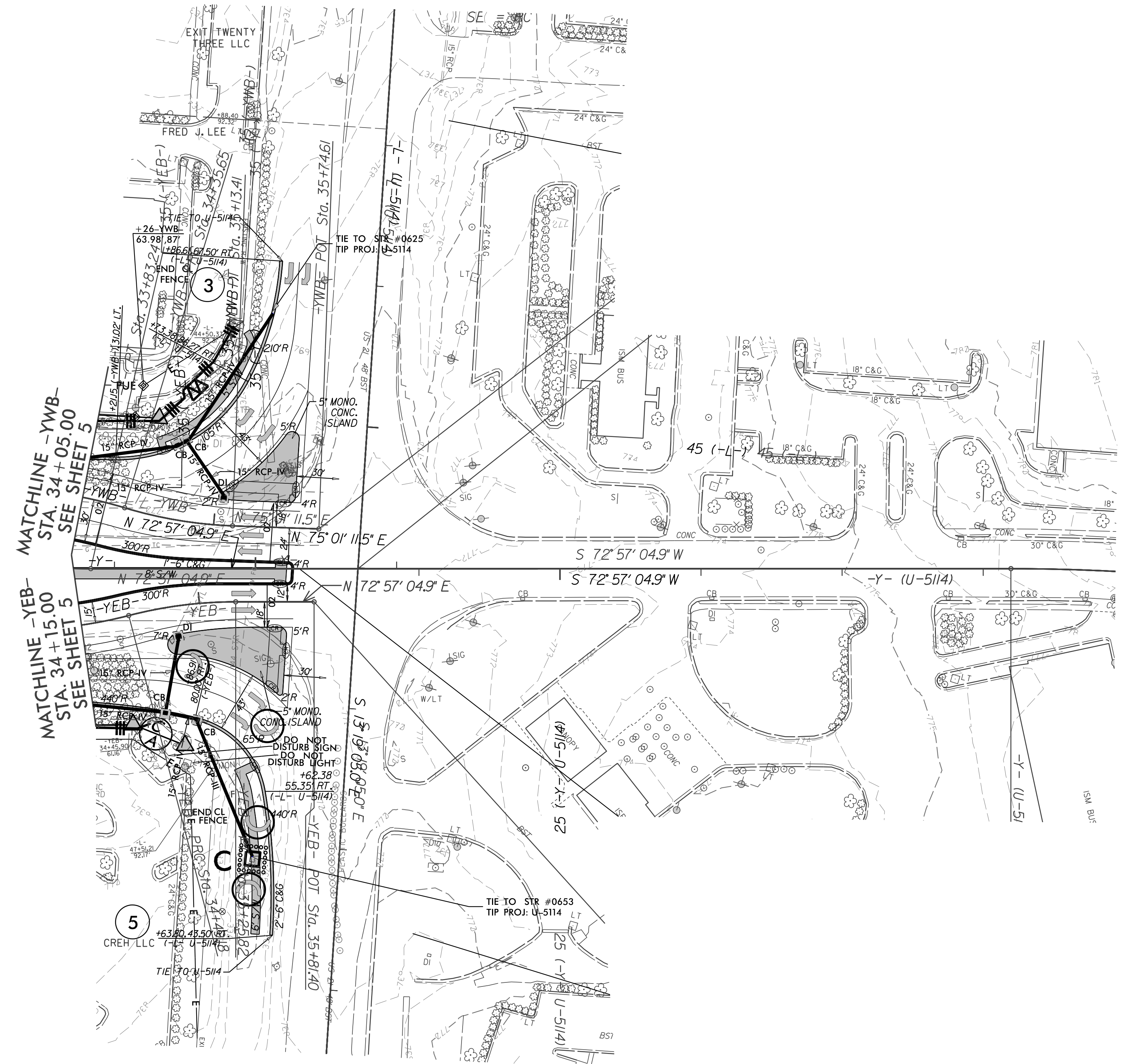
NOTE: TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

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

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 06



★
SEE SHEET 2B-8 FOR HORIZONTAL CURVE AND ALIGNMENT DATA

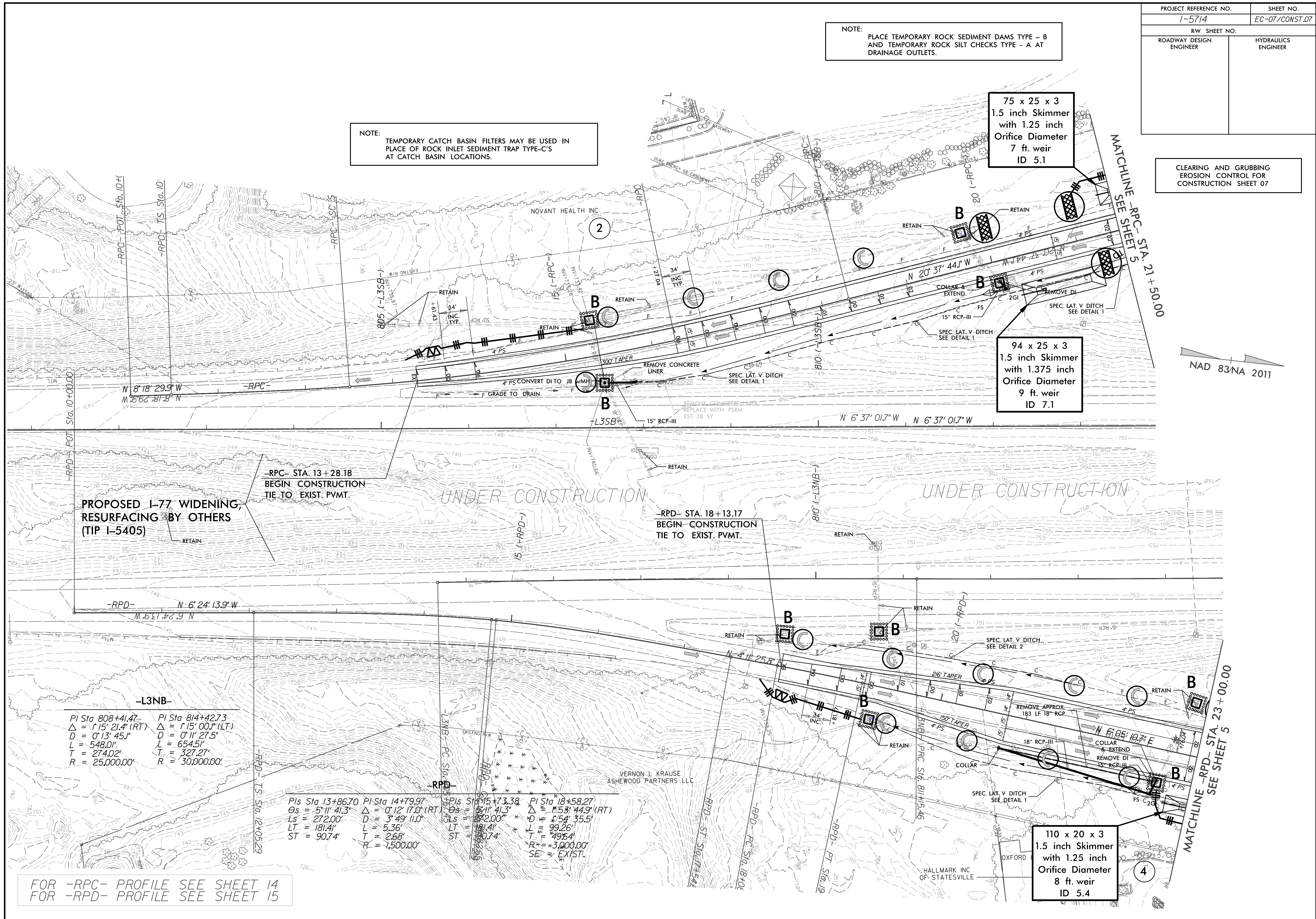
FOR -YEB- PROFILE SEE SHEET 10
FOR -YWB- PROFILE SEE SHEET 11

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-07/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

NOTE: TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 07



PROPOSED I-77 WIDENING, RESURFACING BY OTHERS (TIP I-5405)

UNDER CONSTRUCTION

UNDER CONSTRUCTION

-L3NB-
 PI Sta 808+41.47 PI Sta 814+42.73
 $\Delta = 1' 15" 21.4" (RT)$ $\Delta = 1' 15" 00.1" (LT)$
 $D = 0' 13' 45.1"$ $D = 0' 11' 27.5"$
 $L = 548.01'$ $L = 654.51'$
 $T = 274.02'$ $T = 327.27'$
 $R = 25,000.00'$ $R = 30,000.00'$

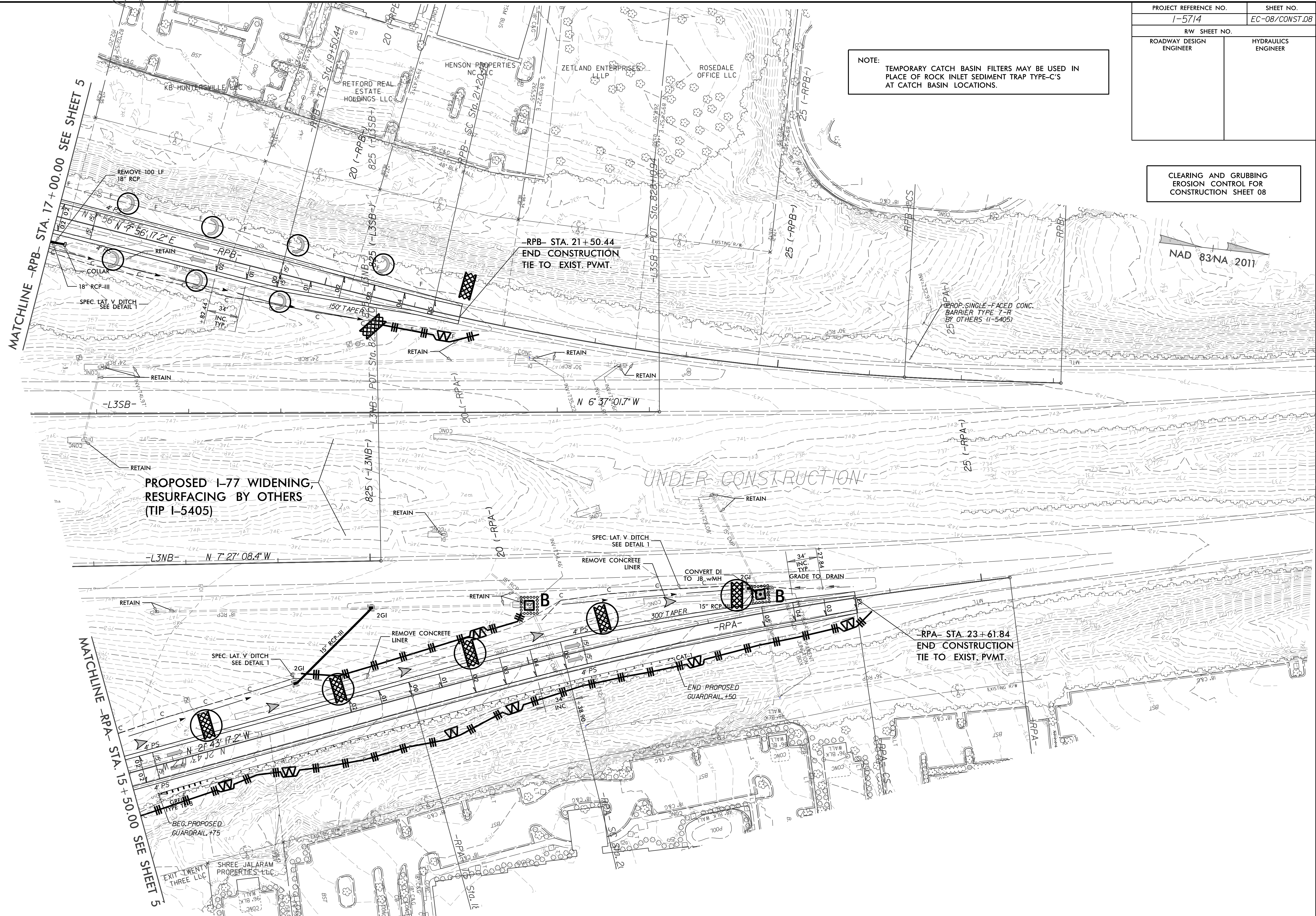
RPD-
 PI Sta 13+86.70 PI Sta 14+79.97 PI Sta 15+73.38 PI Sta 18+58.27
 $\Delta = 5' 11" 41.3"$ $\Delta = 0' 12' 17.0" (RT)$ $\Delta = 0' 11" 41.3"$ $\Delta = 1' 53' 44.9" (RT)$
 $LS = 272.00'$ $D = 3' 49' 11.0"$ $D = 3' 49' 11.0"$ $D = 1' 54' 35.5"$
 $LT = 181.41'$ $L = 5.36'$ $L = 99.26'$ $L = 49.54'$
 $ST = 90.74'$ $T = 2.68'$ $T = 30.74'$ $T = 49.54'$
 $R = 1,500.00'$ $R = 3,000.00'$ $R = 3,000.00'$ $R = 3,000.00'$
 SE = EXIST.

FOR -RPC- PROFILE SEE SHEET 14
 FOR -RPD- PROFILE SEE SHEET 15

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 08



FOR -RPA- PROFILE SEE SHEET 12
FOR -RPB- PROFILE SEE SHEET 13

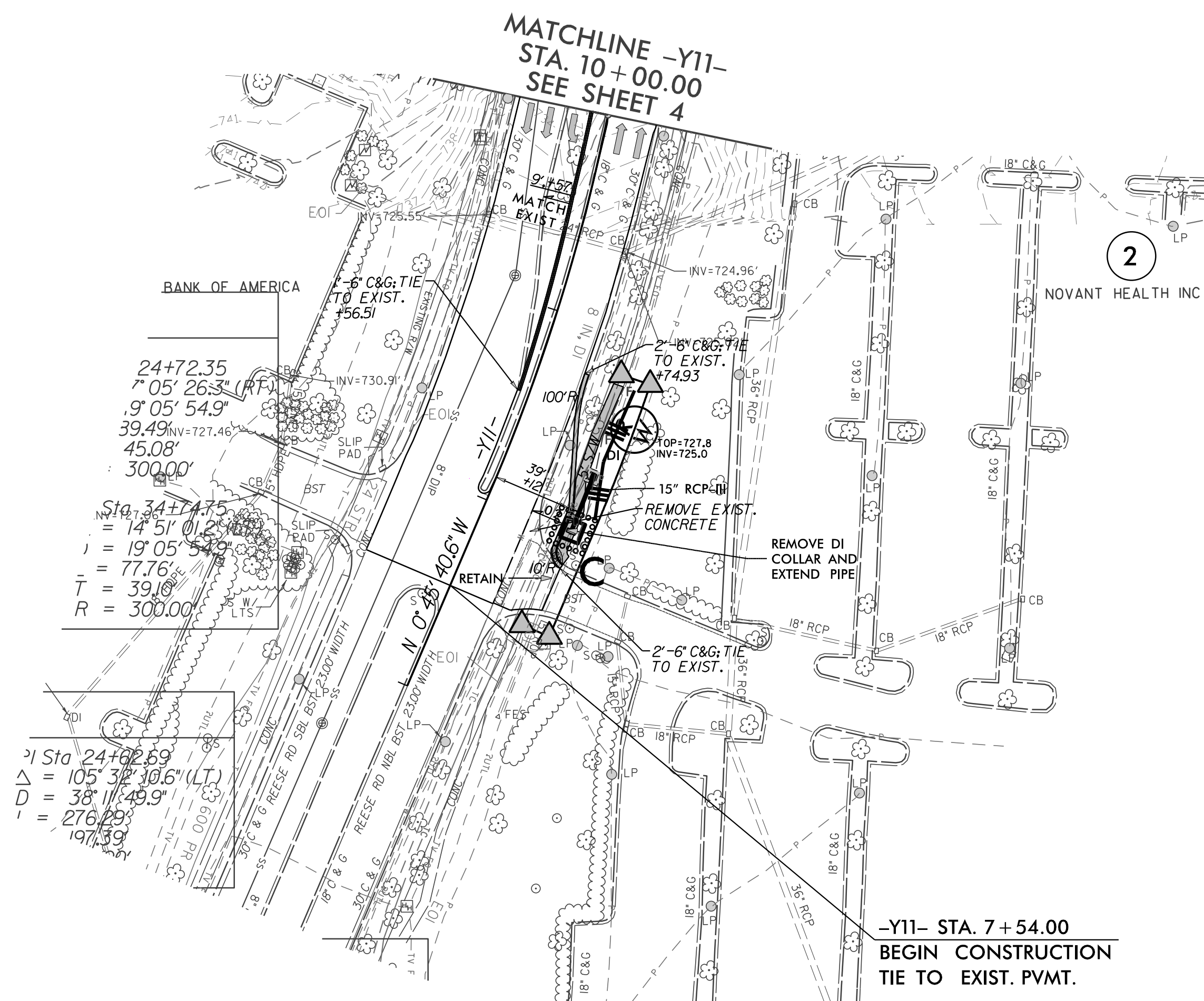
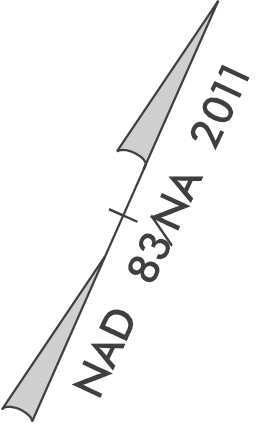
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-09/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09

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

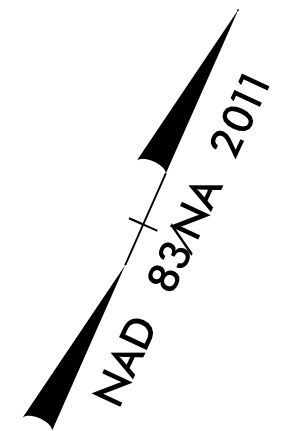
NOTE:
TEMPORARY CATCH BASIN FILTERS MAY BE USED IN
PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S
AT CATCH BASIN LOCATIONS.



FOR -Y11- PROFILE, SEE SHEET 11

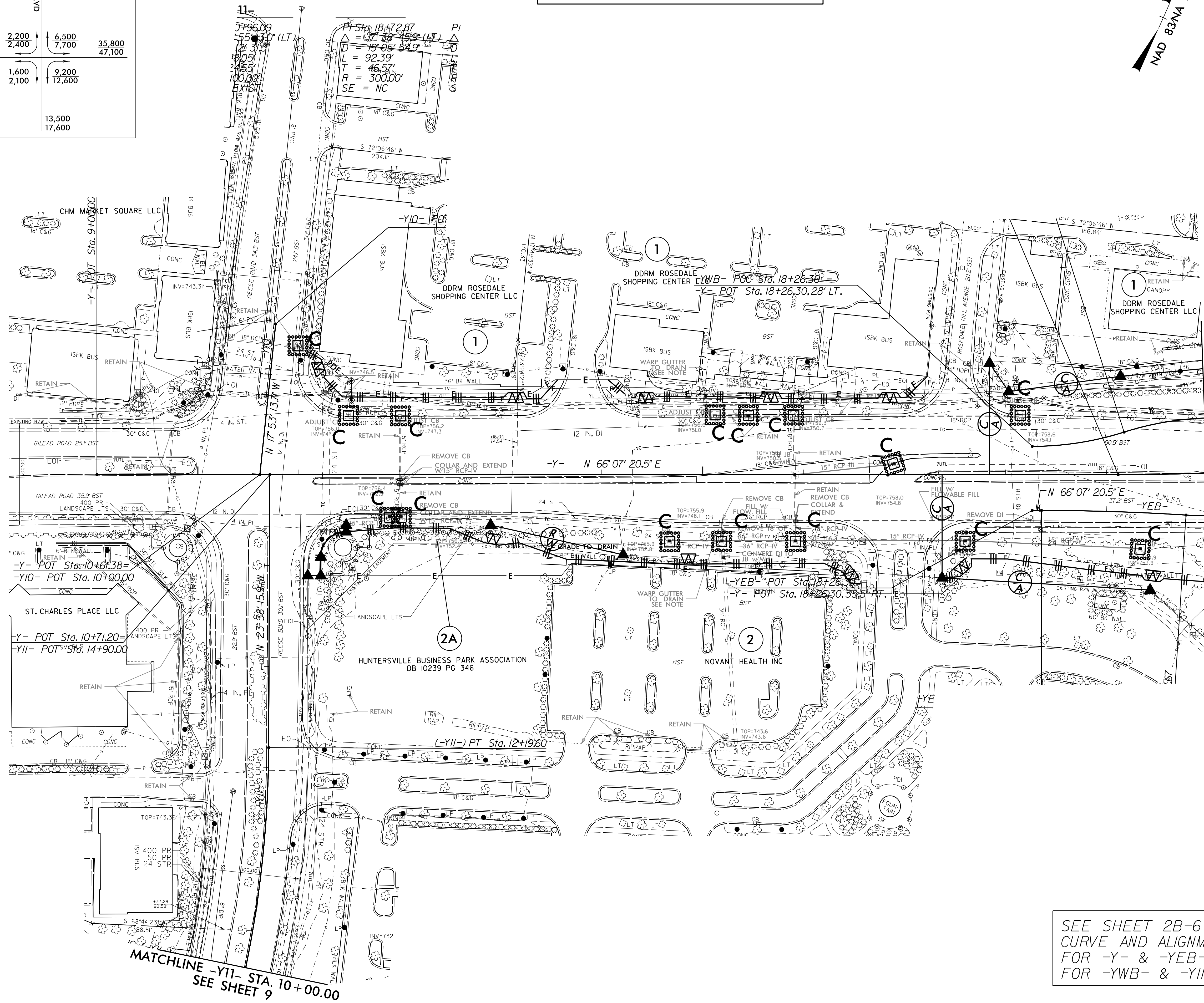
2018 ADT 2040	RESESE BLVD 11,400 13,000		
23,800 31,300	2,200 2,400	6,500 7,700	35,800 47,100
SR 2136 (GILEAD RD)	1,600 2,100	9,200 12,600	
		13,500 17,600	

NOTE:
TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.



PROJECT REFERENCE NO. 1-5714	SHEET NO. EC-10/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04



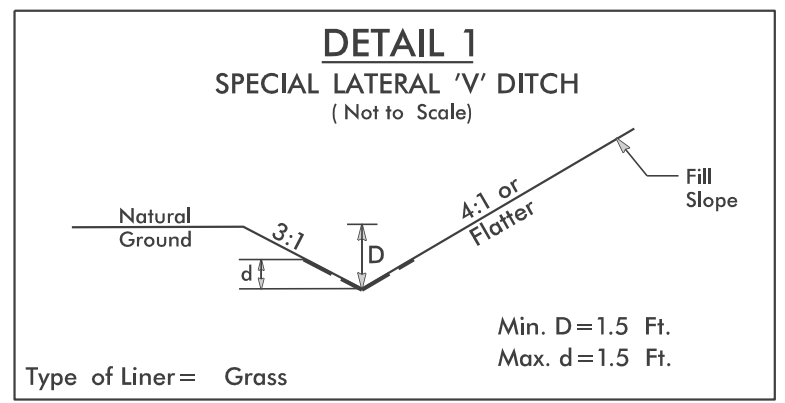
SEE SHEET 2B-6 FOR HORIZONTAL CURVE AND ALIGNMENT DATA
FOR -Y- & -YEB- PROFILES SEE SHEET 10
FOR -YWB- & -YII- PROFILES SEE SHEET 11

MATCHLINE -YII- STA. 10+00.00
SEE SHEET 9

MATCHLINE -YWB- STA. 20+00.00
SEE SHEET 5

MATCHLINE -YEB- STA. 20+00.00
SEE SHEET 5

2018 ADT	103,300			
2040	127,700			
40,300	9,400	3,200	32,200	
52,300	12,100	5,200	45,900	
SR 2136 (GILEAD RD.)	11,300	9,400		
	11,900	12,400		
	111,200			
	134,700			

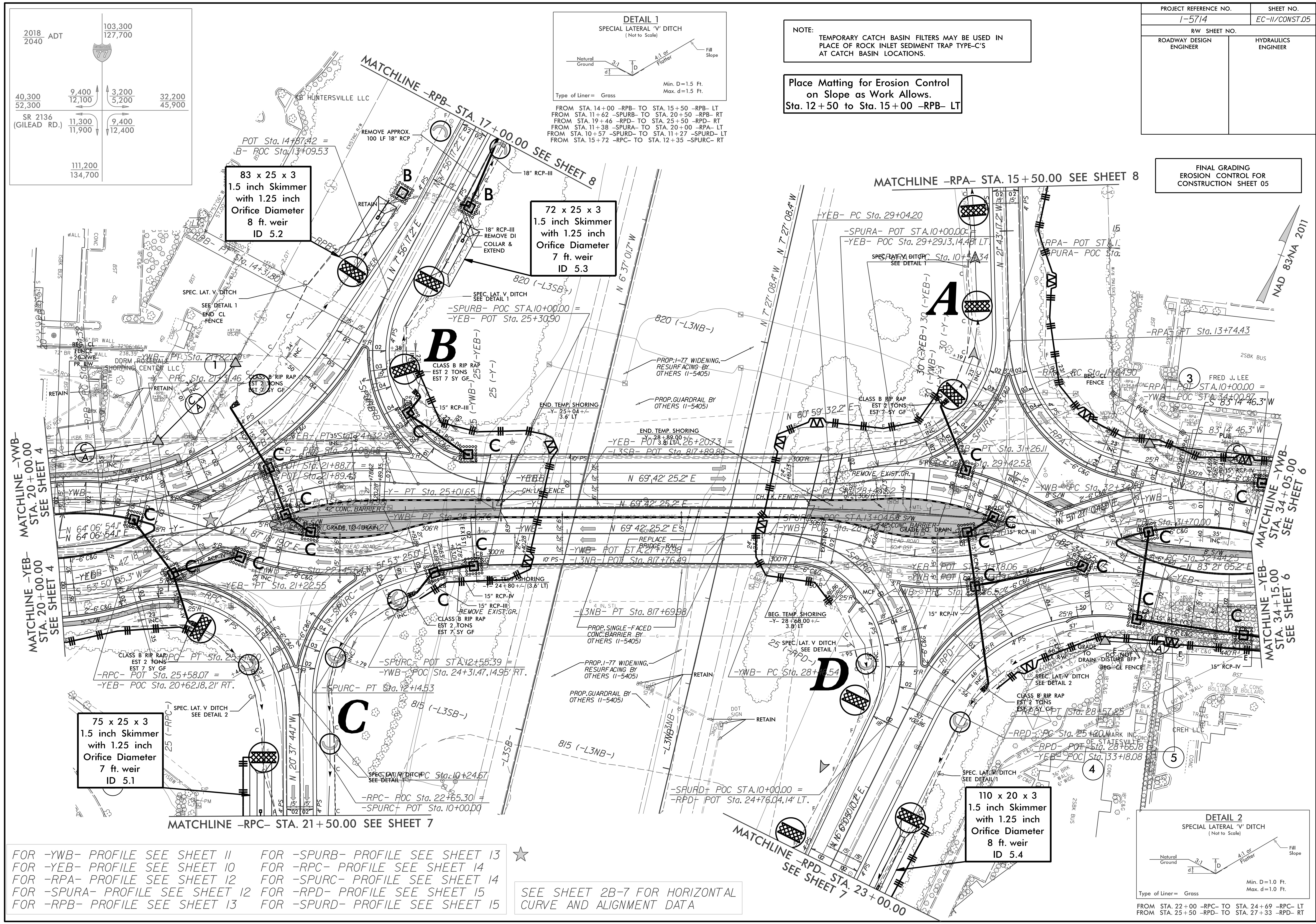


NOTE: TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

Place Matting for Erosion Control on Slope as Work Allows. Sta. 12+50 to Sta. 15+00 -RPB- LT

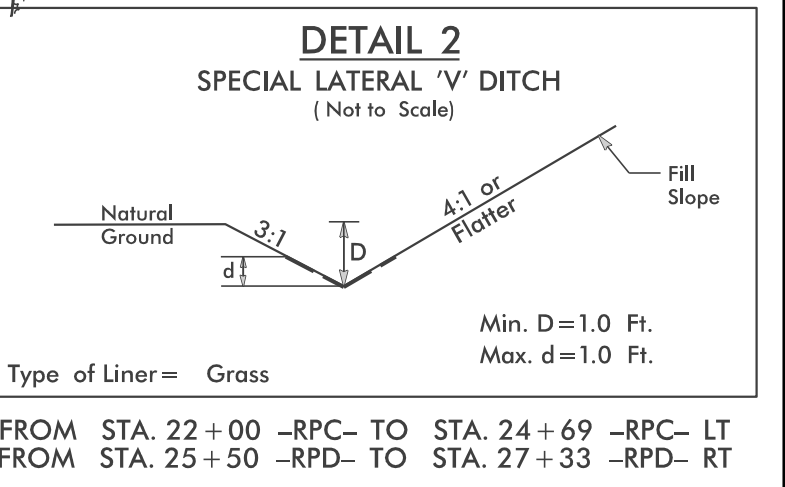
PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-11/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 05



FOR -YWB- PROFILE SEE SHEET 11
 FOR -YEB- PROFILE SEE SHEET 10
 FOR -RPA- PROFILE SEE SHEET 12
 FOR -SPURA- PROFILE SEE SHEET 12
 FOR -RPB- PROFILE SEE SHEET 13
 FOR -SPURB- PROFILE SEE SHEET 13
 FOR -RPC- PROFILE SEE SHEET 14
 FOR -SPURC- PROFILE SEE SHEET 14
 FOR -RPD- PROFILE SEE SHEET 15
 FOR -SPURD- PROFILE SEE SHEET 15

SEE SHEET 2B-7 FOR HORIZONTAL CURVE AND ALIGNMENT DATA



FROM STA. 22+00 -RPC- TO STA. 24+69 -RPC- LT
 FROM STA. 25+50 -RPD- TO STA. 27+33 -RPD- RT

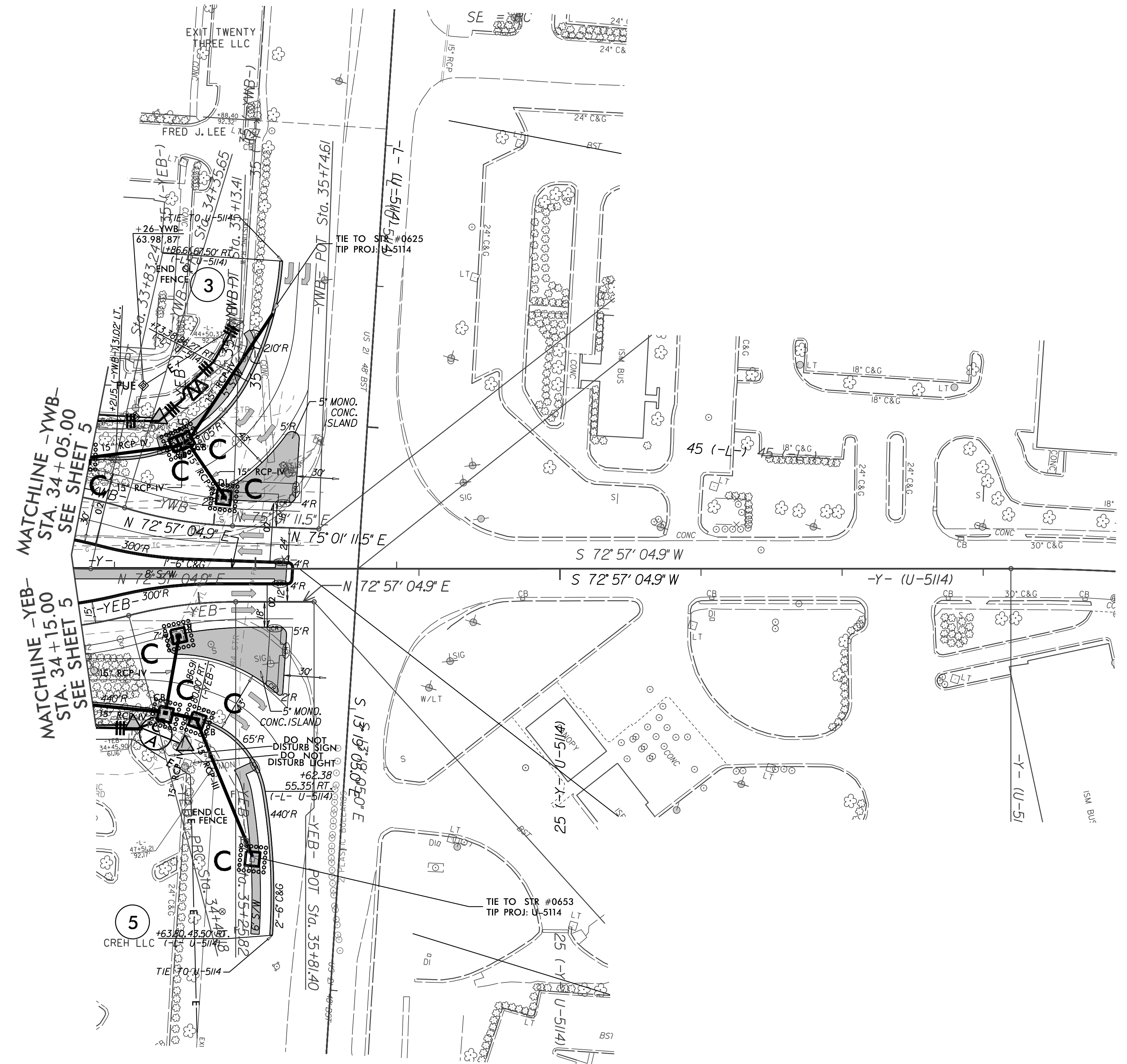
PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-12/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

NAD 83/NA 2011

NOTE:
TEMPORARY CATCH BASIN FILTERS MAY BE USED IN
PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S
AT CATCH BASIN LOCATIONS.

2018 ADT	21,800		
2040 ADT	61,800		
	9,700	3,100	20,600
	14,900	7,700	33,500
	7,300	2,100	
	8,000	2,800	
			SR 2136 (GILEAD RD)
			18,500
			50,000



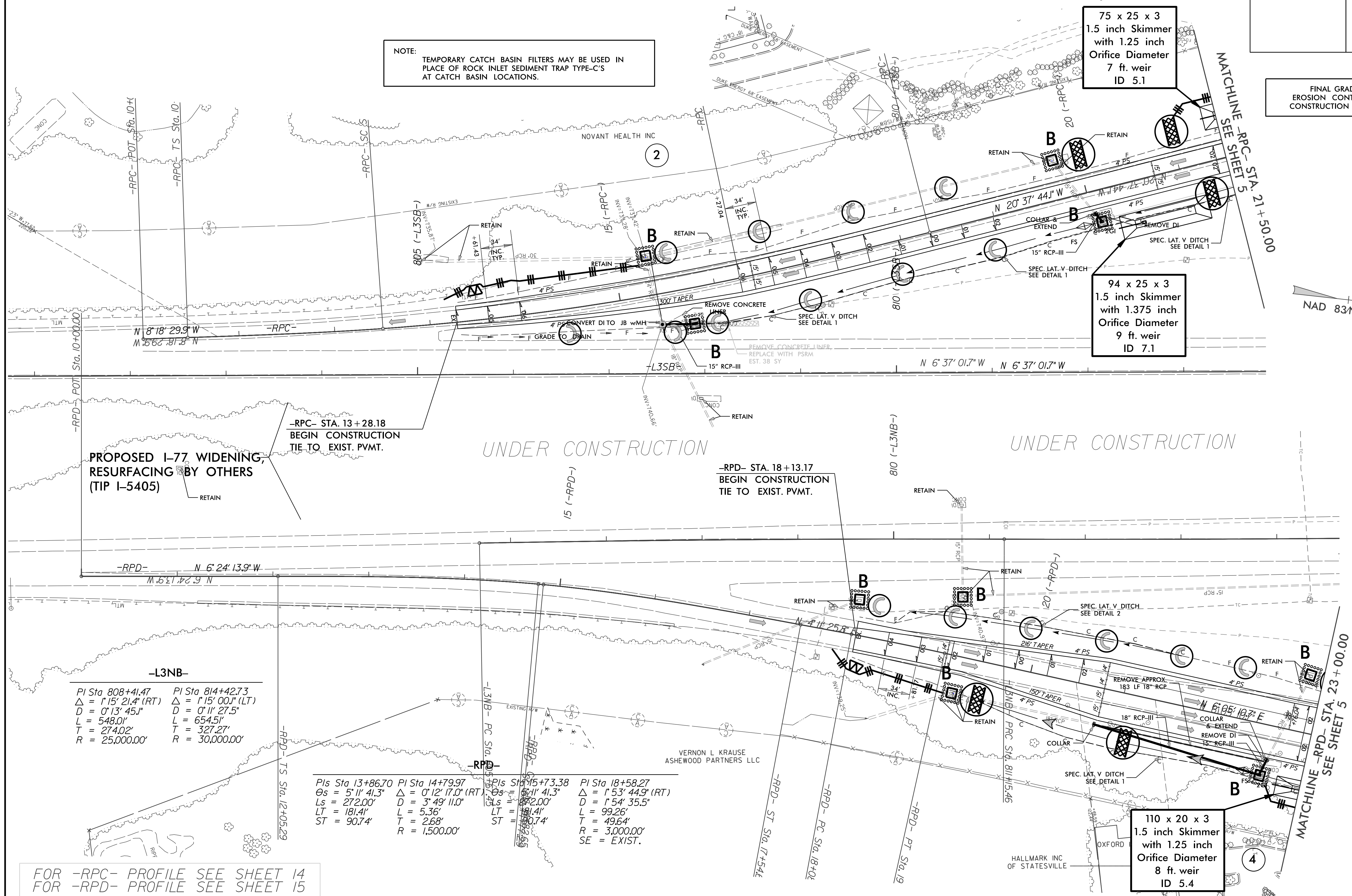
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SEE SHEET 2B-8 FOR HORIZONTAL
CURVE AND ALIGNMENT DATA

FOR -YEB- PROFILE SEE SHEET 10
FOR -YWB- PROFILE SEE SHEET 11

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-13/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

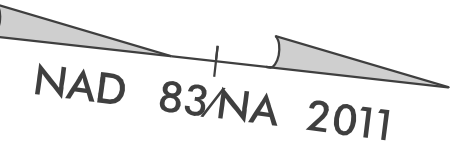
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

NOTE:
TEMPORARY CATCH BASIN FILTERS MAY BE USED IN
PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S
AT CATCH BASIN LOCATIONS.



75 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 5.1

94 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 7.1



PROPOSED I-77 WIDENING,
RESURFACING BY OTHERS
(TIP I-5405)

UNDER CONSTRUCTION

-RPD- STA. 18+13.17
BEGIN CONSTRUCTION
TIE TO EXIST. PVMT.

UNDER CONSTRUCTION

-L3NB-

PI Sta 808+41.47	PI Sta 814+42.73
$\Delta = 1' 15" 21.4" (RT)$	$\Delta = 1' 15" 00.1" (LT)$
$D = 0' 13' 45.1"$	$D = 0' 11' 27.5"$
$L = 548.01'$	$L = 654.51'$
$T = 274.02'$	$T = 327.27'$
$R = 25,000.00'$	$R = 30,000.00'$

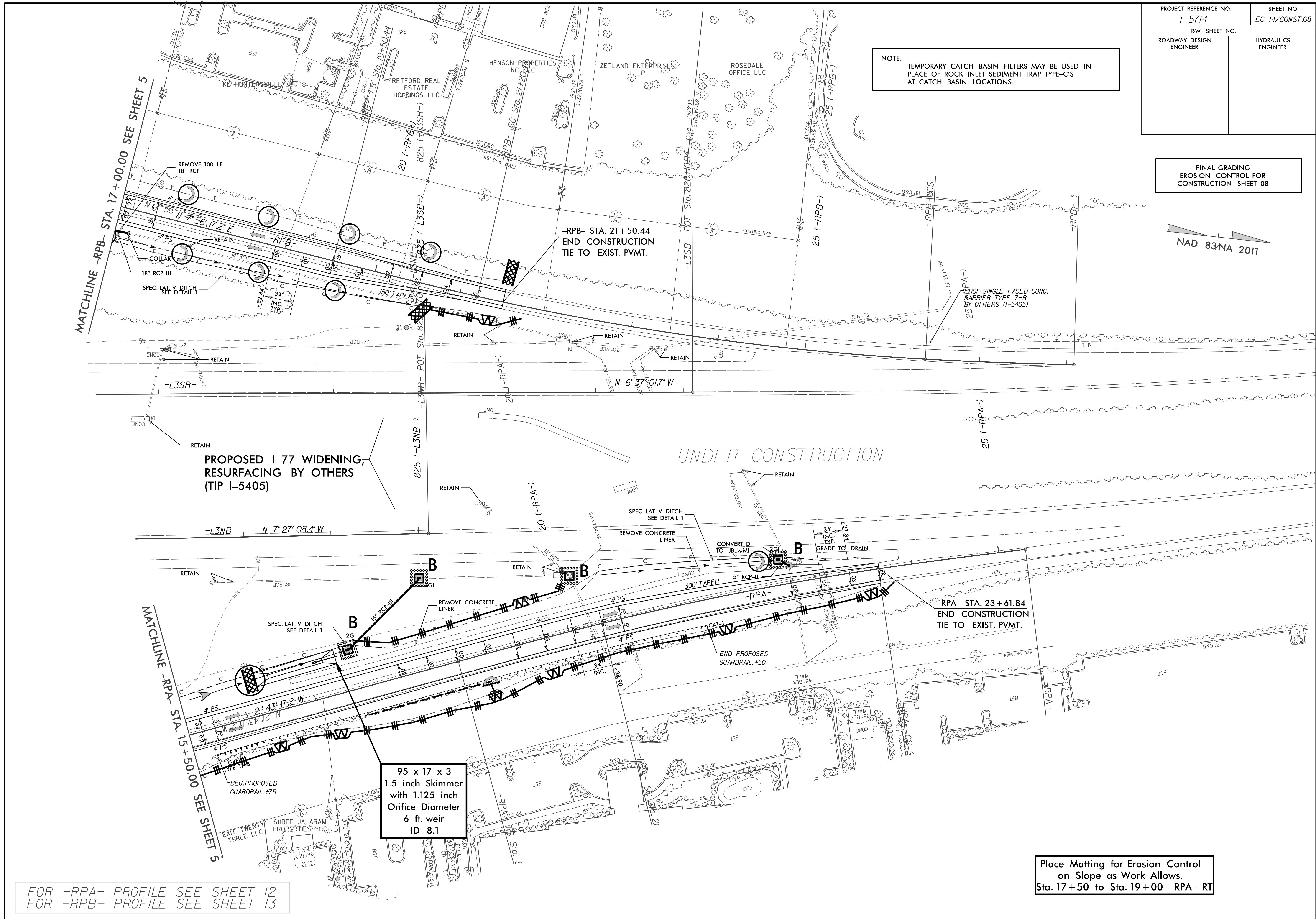
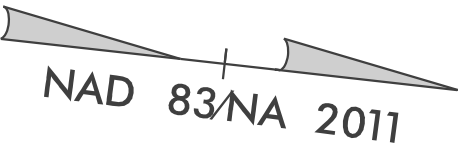
PIs Sta 13+86.70	PI Sta 14+79.97	PIs Sta 15+73.38	PI Sta 18+58.27
$\Delta_s = 5' 11' 41.3"$	$\Delta = 0' 12' 17.0" (RT)$	$\Delta_s = 6' 11' 41.3"$	$\Delta = 1' 53' 44.9" (RT)$
$L_s = 272.00'$	$D = 3' 49' 11.0"$	$L_s = 272.00'$	$D = 1' 54' 35.5"$
$LT = 181.41'$	$L = 5.36'$	$LT = 181.41'$	$L = 99.26'$
$ST = 90.74'$	$T = 2.68'$	$ST = 90.74'$	$T = 49.64'$
	$R = 1,500.00'$		$R = 3,000.00'$
			$SE = EXIST.$

FOR -RPC- PROFILE SEE SHEET 14
FOR -RPD- PROFILE SEE SHEET 15

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-14/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08



FOR -RPA- PROFILE SEE SHEET 12
FOR -RPB- PROFILE SEE SHEET 13

95 x 17 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 8.1

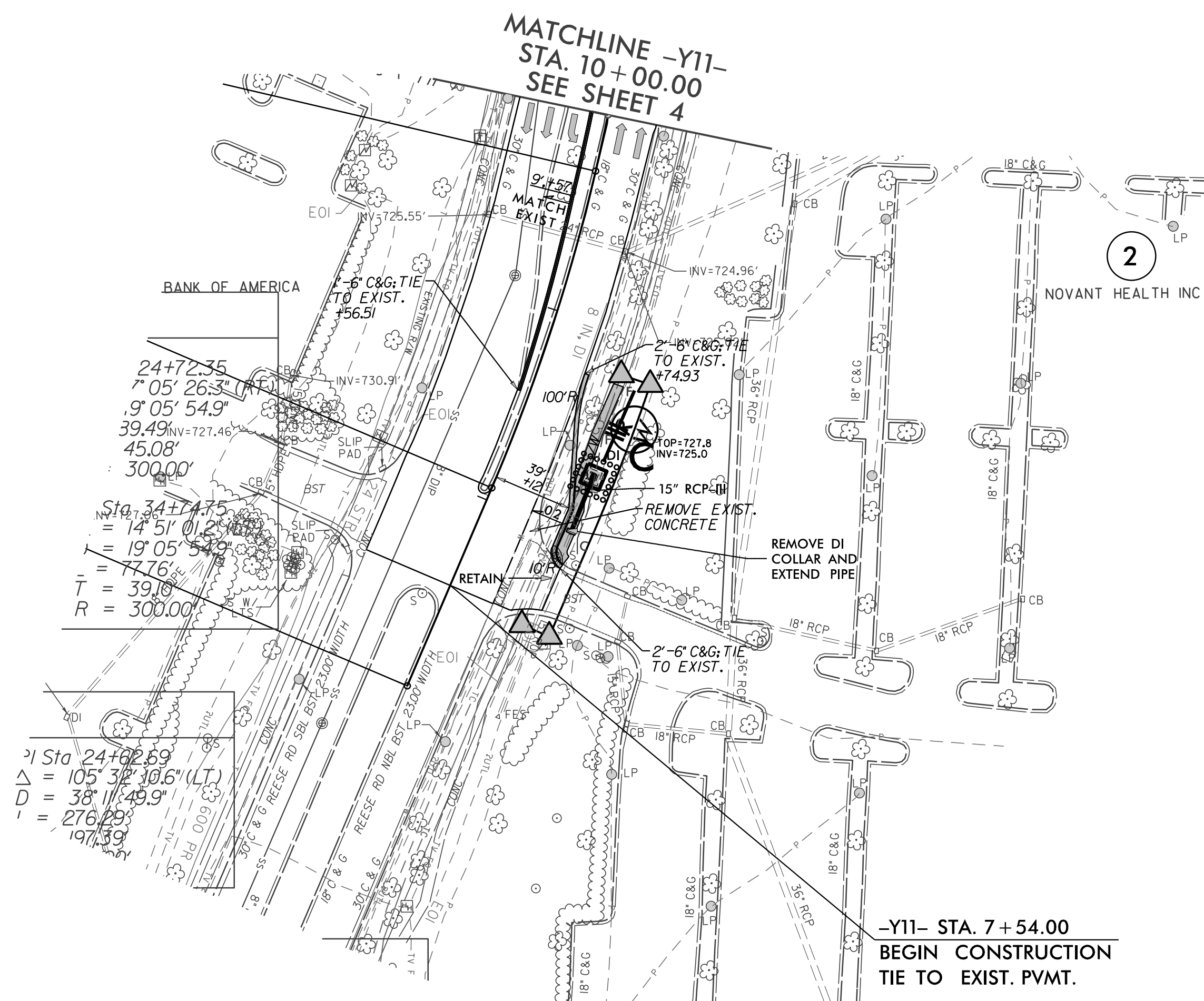
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 17+50 to Sta. 19+00 -RPA- RT

PROJECT REFERENCE NO.	SHEET NO.
1-5714	EC-15/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

NOTE: TEMPORARY CATCH BASIN FILTERS MAY BE USED IN PLACE OF ROCK INLET SEDIMENT TRAP TYPE-C'S AT CATCH BASIN LOCATIONS.

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09



FOR -Y11- PROFILE, SEE SHEET 11