

09.08/2019

See Sheet 1-A For Index of Sheets

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## MOORE /HOKE COUNTIES

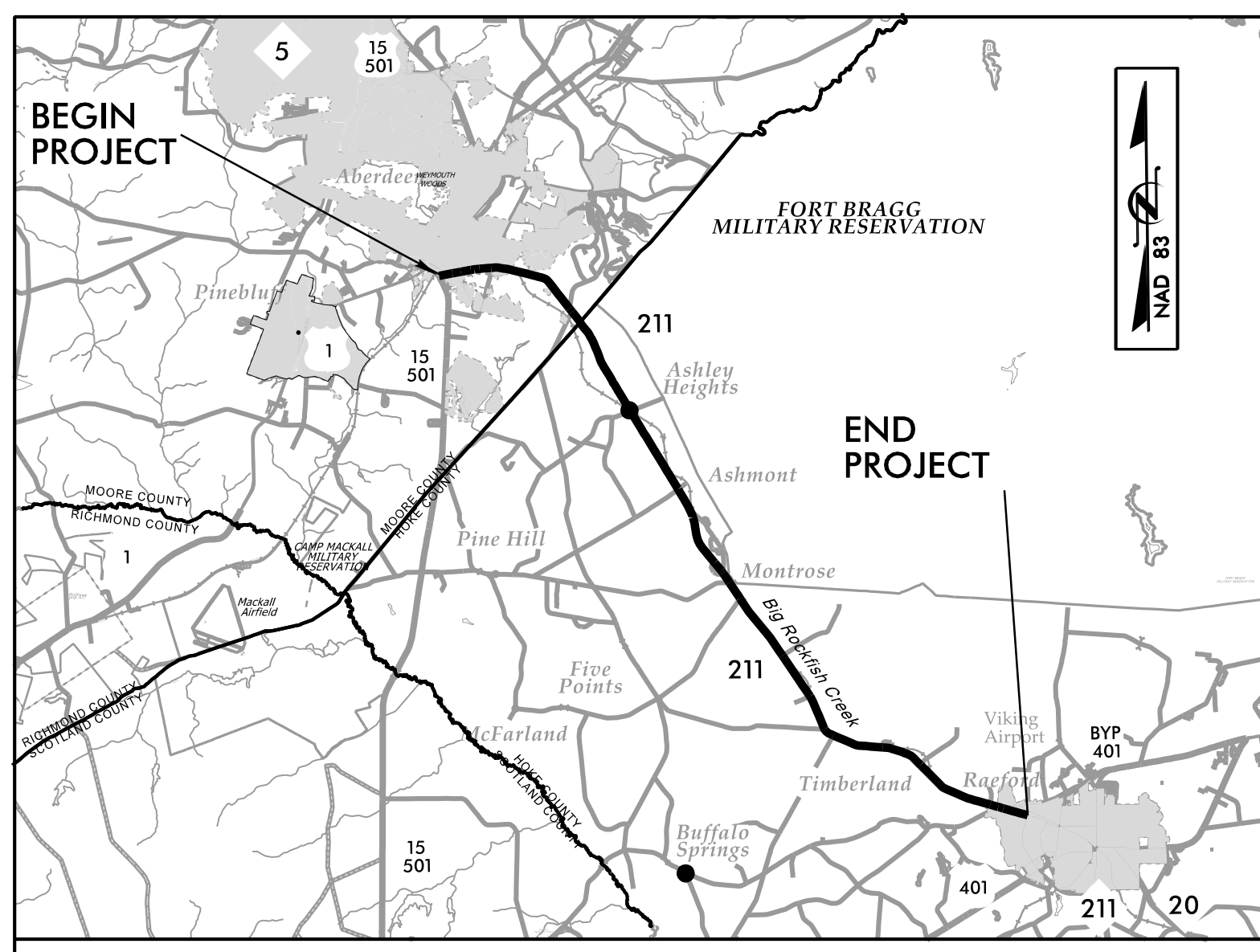
LOCATION: NC 211 FROM US 15/US 501 IN ABERDEEN TO SR 1244  
(WEST PALMER ST)/SR 1311 (MOCKINGBIRD HILL RD) IN RAEFORD

TYPE OF WORK: CLEARING & GRUBBING, EROSION CONTROL,  
SHOULDER GRADING, AND PAVING

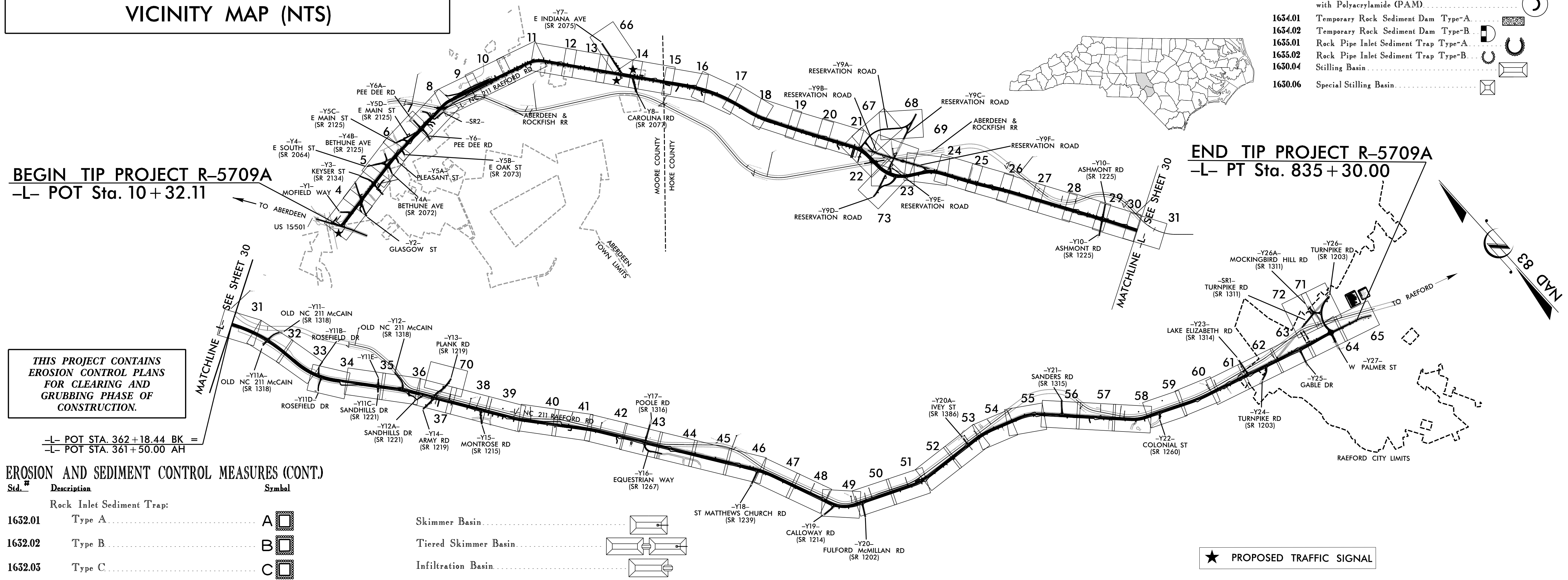
EARLY START C&G EROSION CONTROL PLANS  
SUBMITTAL NO.: S-061R2  
DATE: 07/23/2021

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5709A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50205.1.2		P.E.	
50205.3.2		CONSTRUCTION	

TIP PROJECT: R-5709A



VICINITY MAP (NTS)



BEGIN TIP PROJECT R-5709A  
-L- POT Sta. 10+32.11

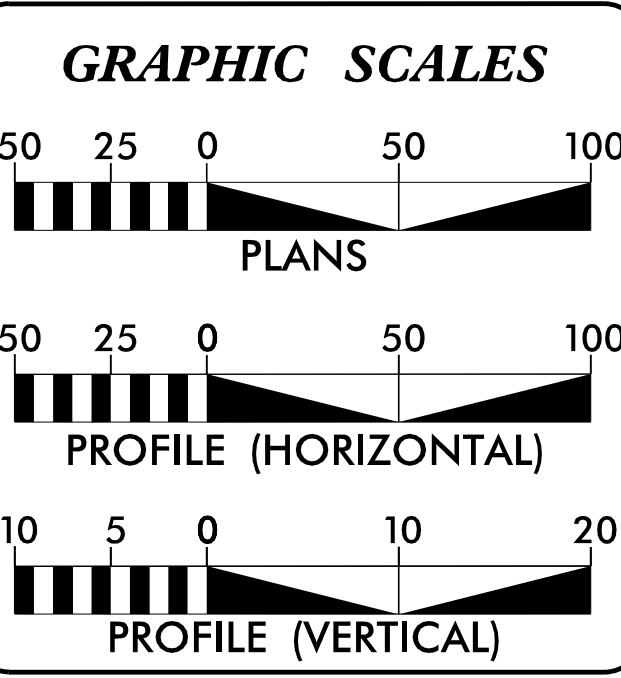
END TIP PROJECT R-5709A  
-L- PT Sta. 835+30.00

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

-L- POT STA. 362+18.44 BK =  
-L- POT STA. 361+50.00 AH

EROSION AND SEDIMENT CONTROL MEASURES (CONT.)

Std. #	Description	Symbol
1632.01	Rock Inlet Sediment Trap Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

Prepared In the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

LENGTH ROADWAY TIP PROJECT R-5709.....15.607 MILES  
LENGTH STRUCTURE TIP PROJECT R-5709.....0.031 MILES  
TOTAL LENGTH TIP PROJECT R-5709.....15.638 MILES

Prepared In the Office of:  
**RK&K**  
RUMMEL KLEPPER & KAHL, LLP  
8601 SIX FORKS ROAD, FORUM 1, SUITE 700  
RALEIGH, NORTH CAROLINA 27615-3960  
NC LICENSE NO. F-0112  
1-888-521-4455 OR 919-878-9560

**SETH JONES, EI**  
EROSION CONTROL DESIGN ENGINEER  
LEVEL III CERTIFICATION NO. 4183

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 3	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 Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

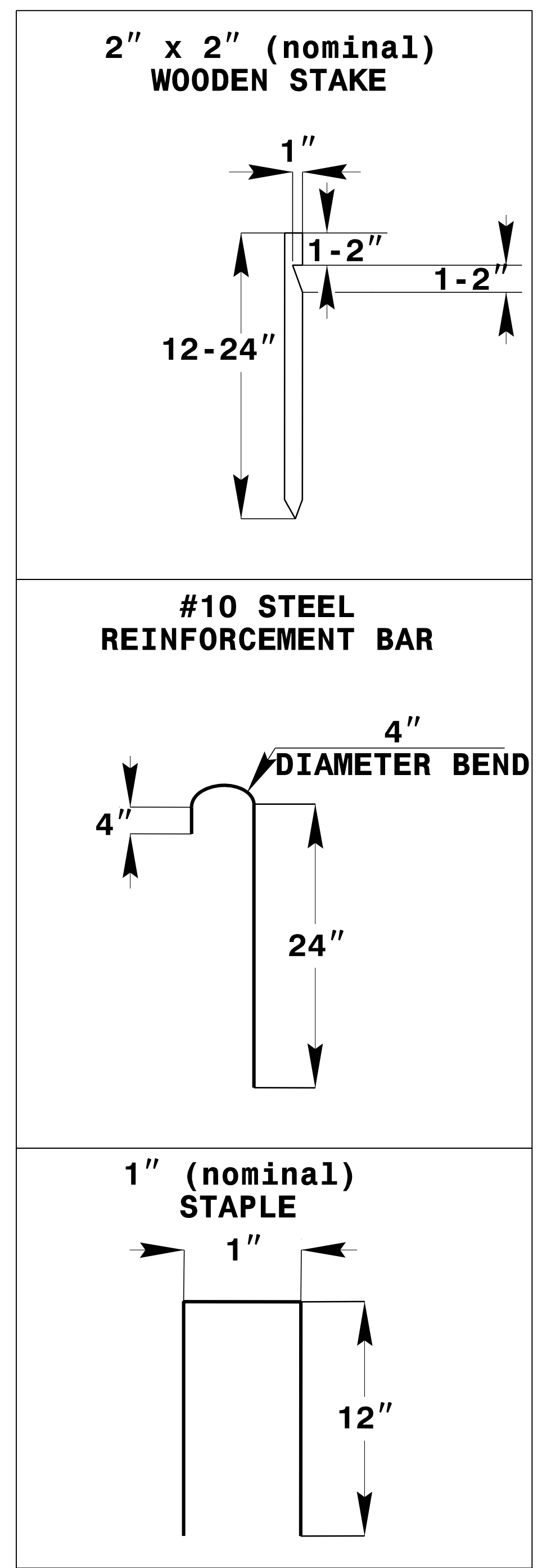
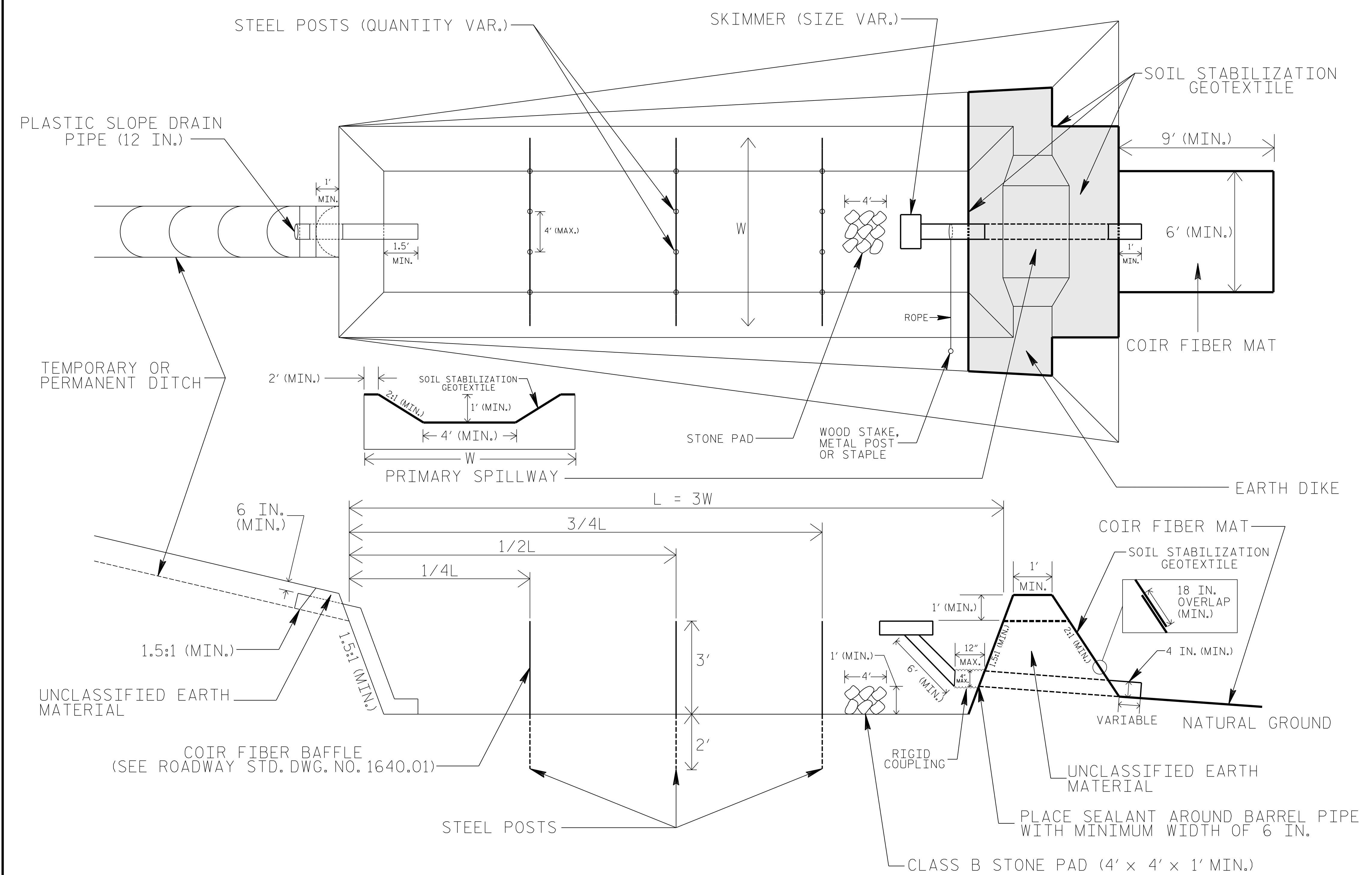
8/13/2021 R:\Hydraulics\CADD\PSH\EC - Early Start C&G\R5709-EC-ESCC-tsh.dgn

CONTRACT:



PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-02
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SKIMMER BASIN WITH BAFFLES DETAIL



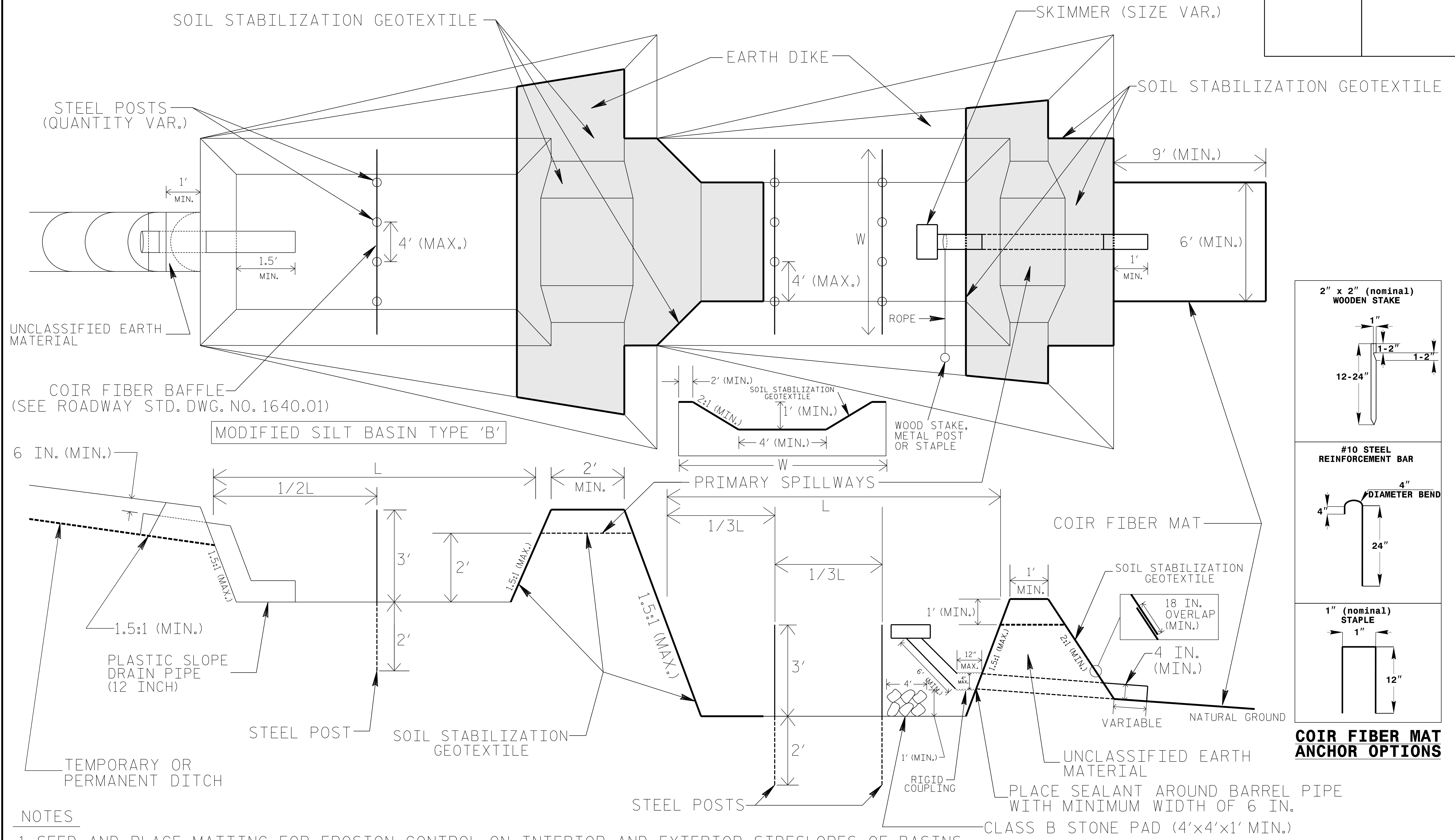
## NOTES

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

# TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-02A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



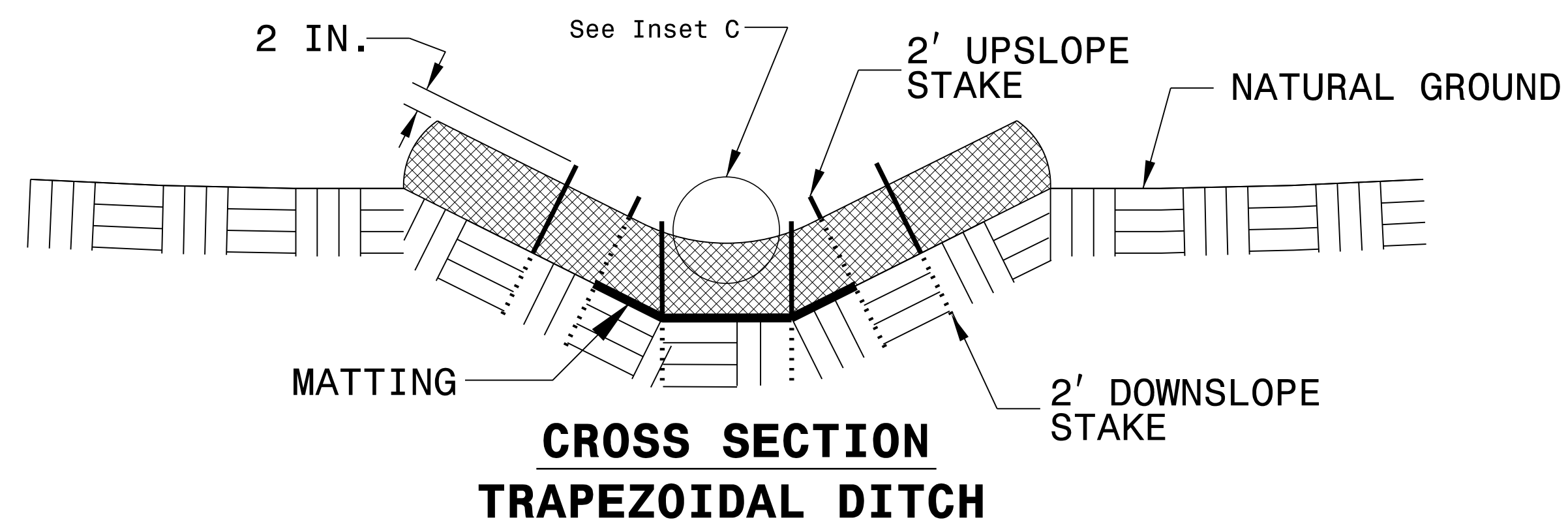
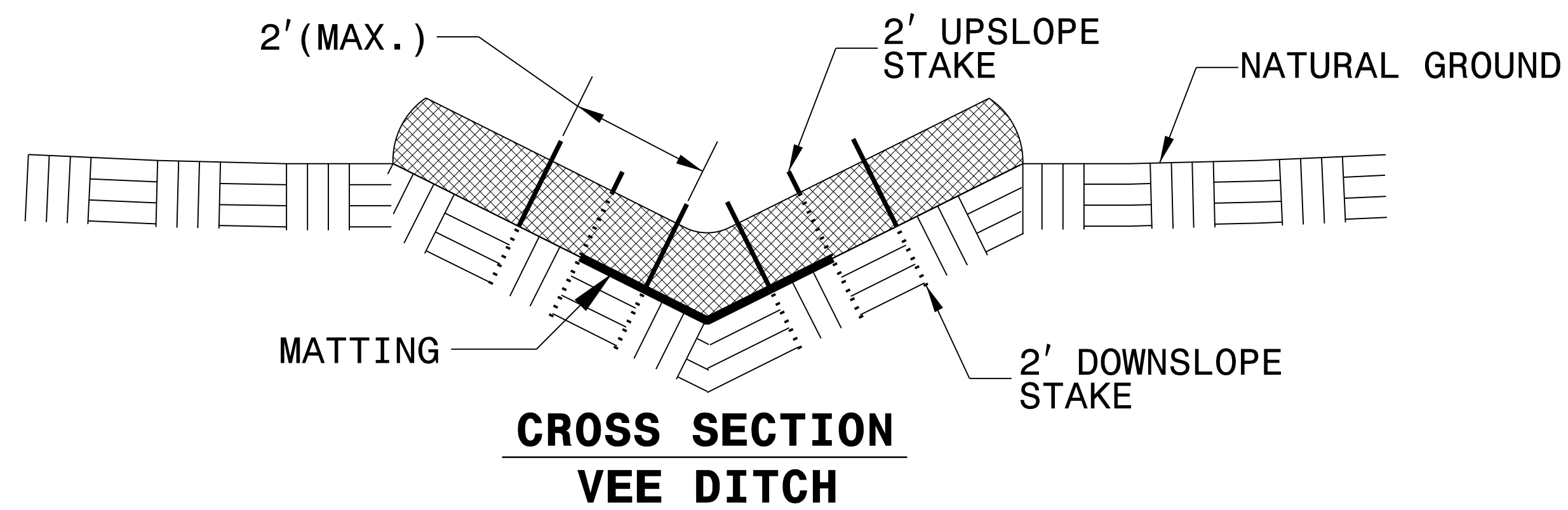
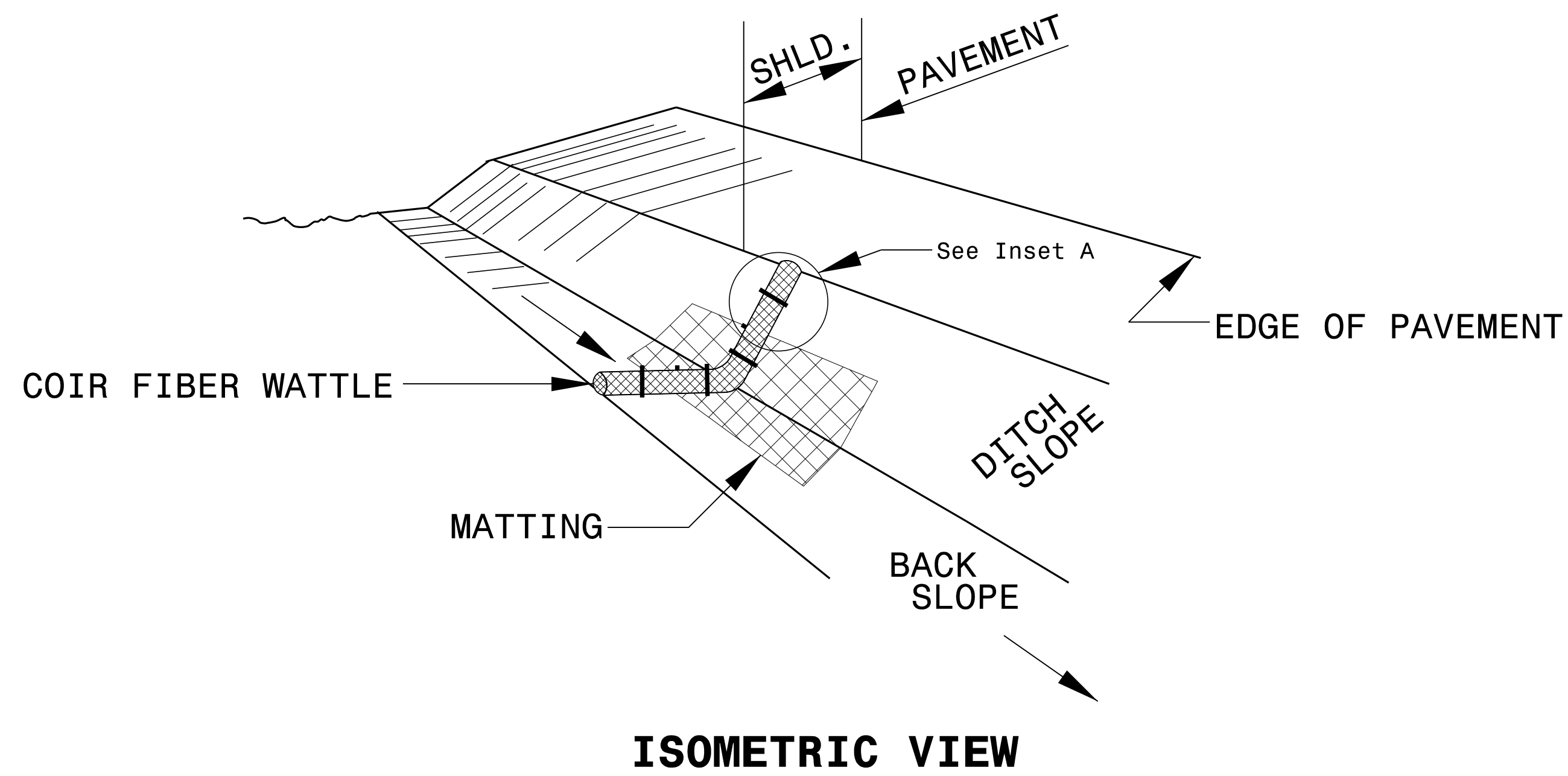
## NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE PRIMARY SPILLWAY WEIR LENGTHS (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

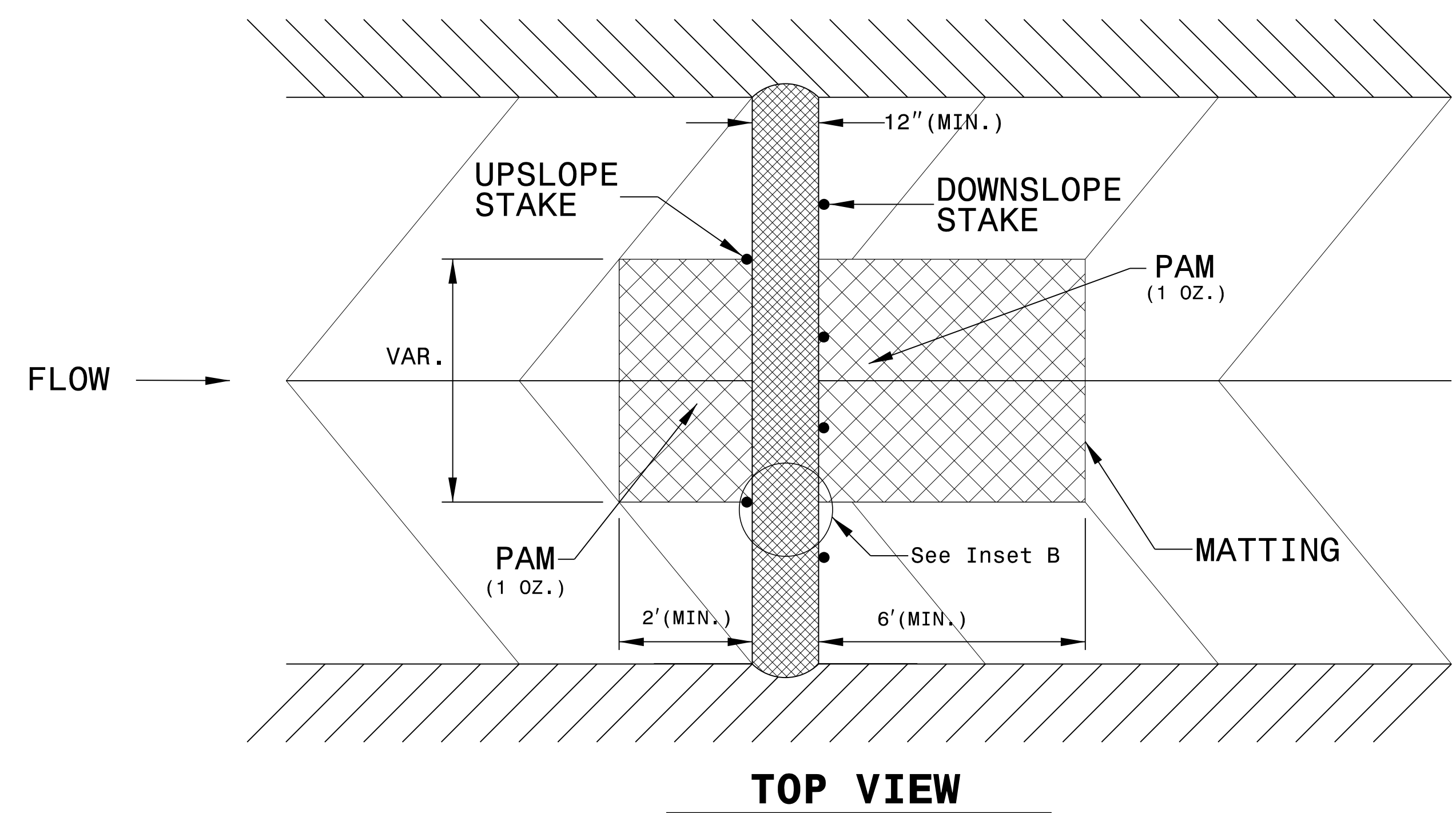
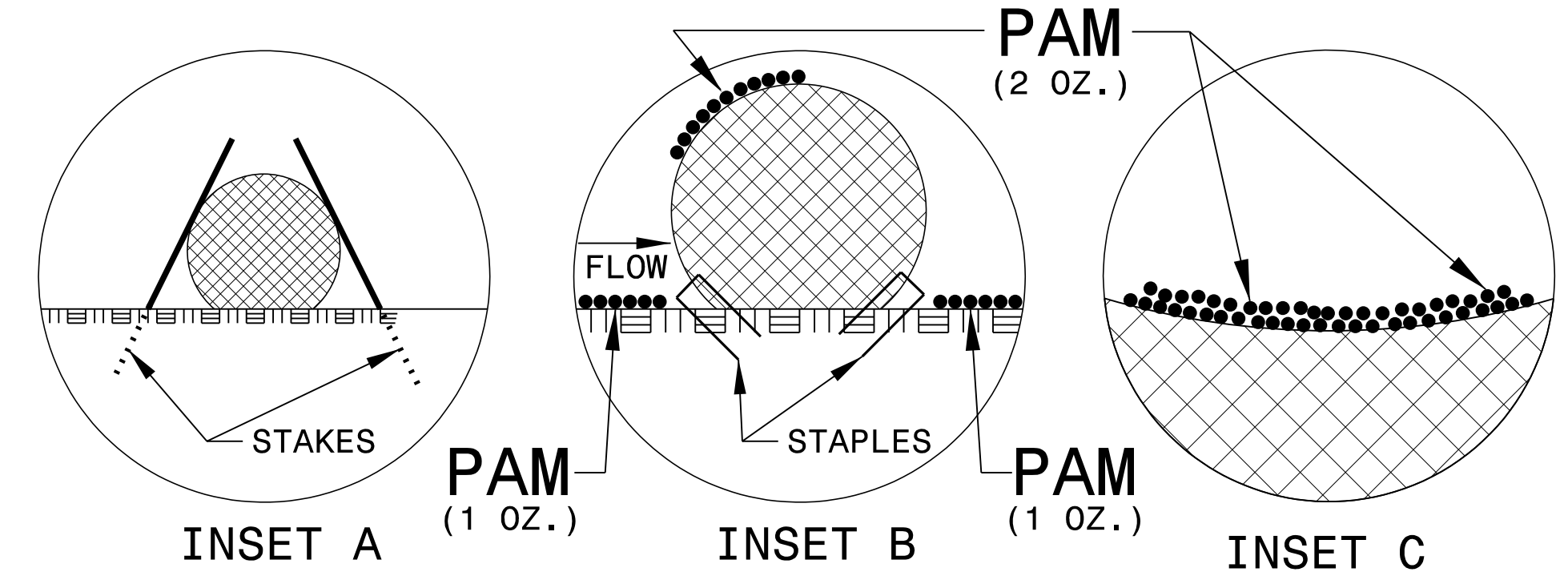
PROJECT REFERENCE NO. <i>R-5709A</i>	SHEET NO. <i>EC-02B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**NOTES:**

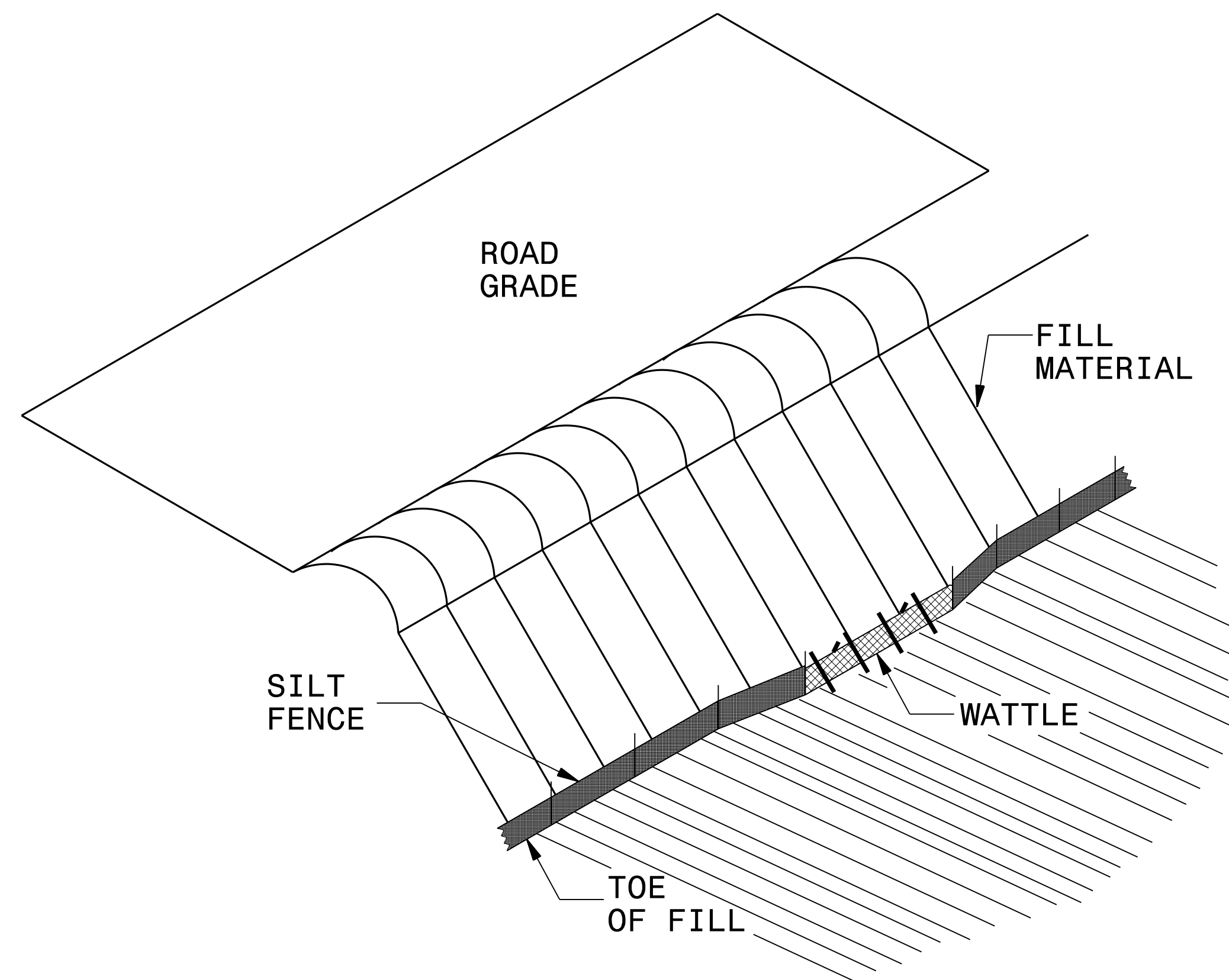
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 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.



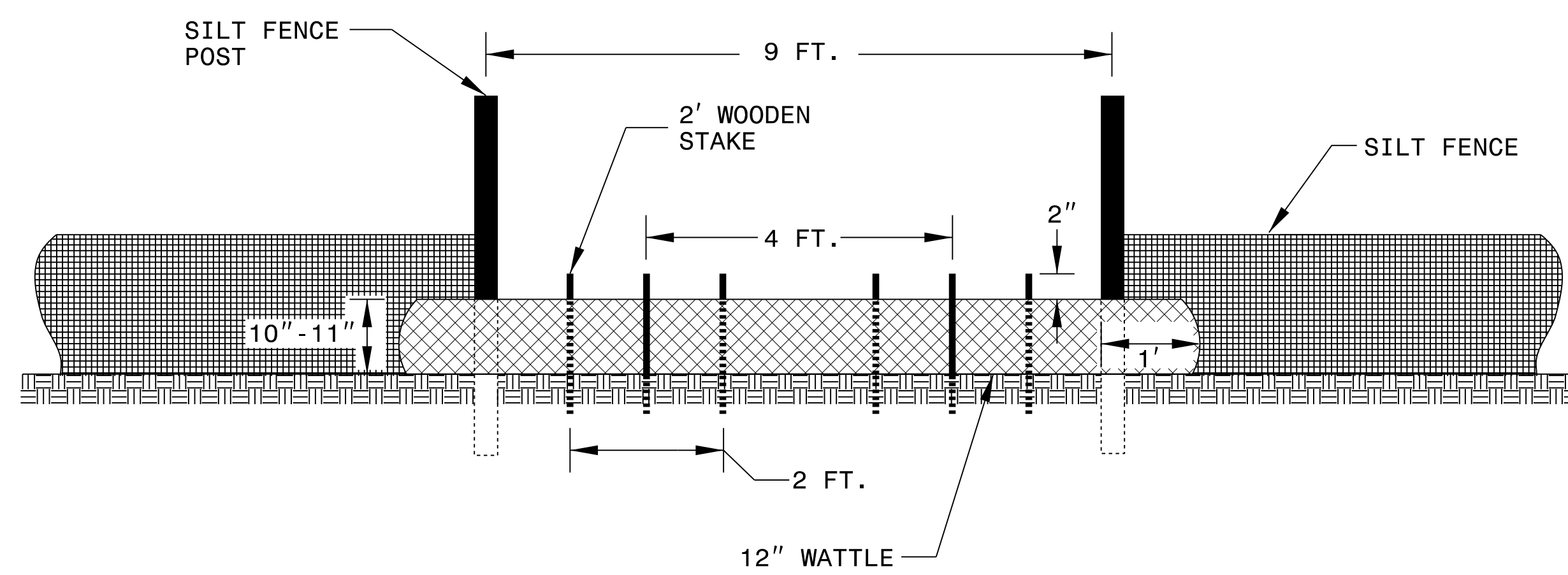


# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO. <i>R-5709A</i>	SHEET NO. <i>EC-02C</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**ISOMETRIC VIEW**



**VIEW FROM SLOPE**

**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.

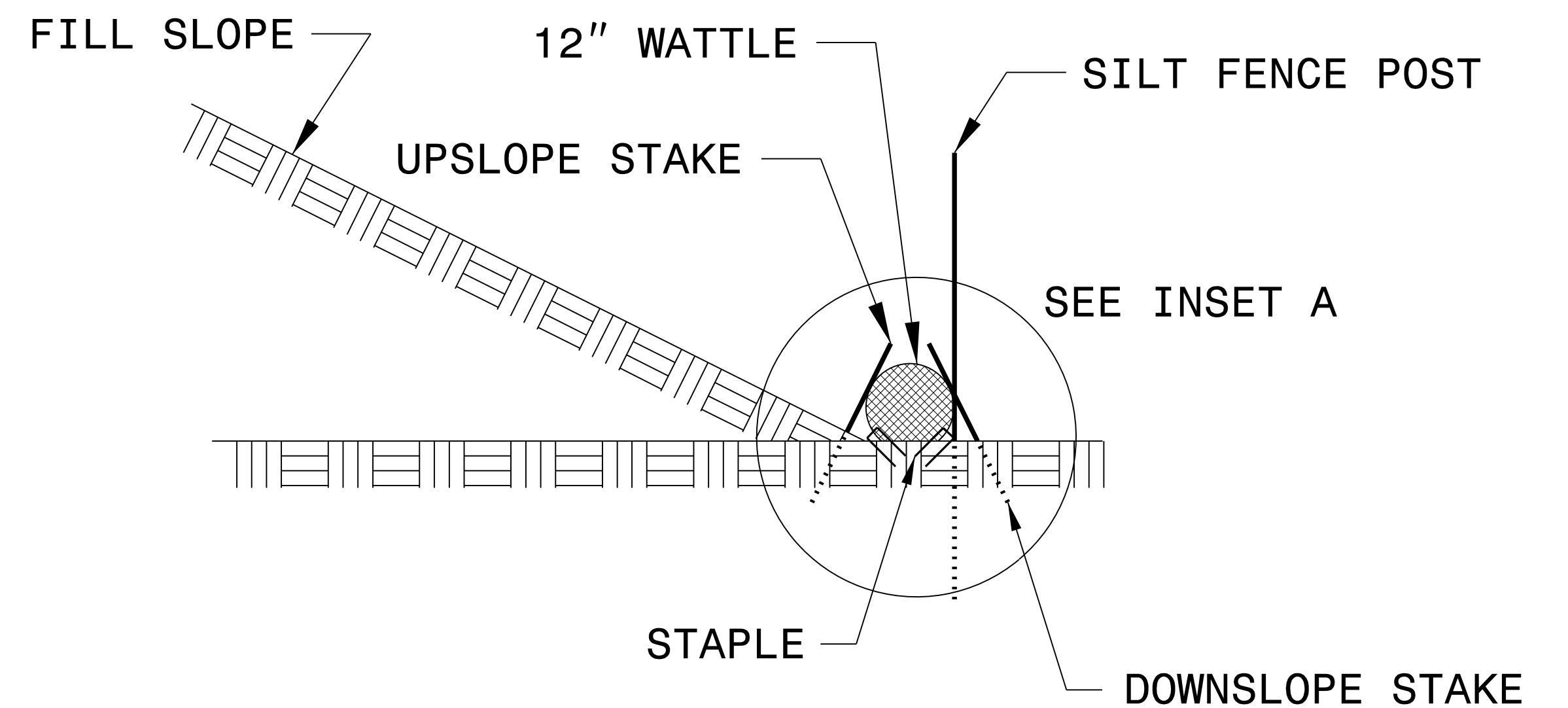
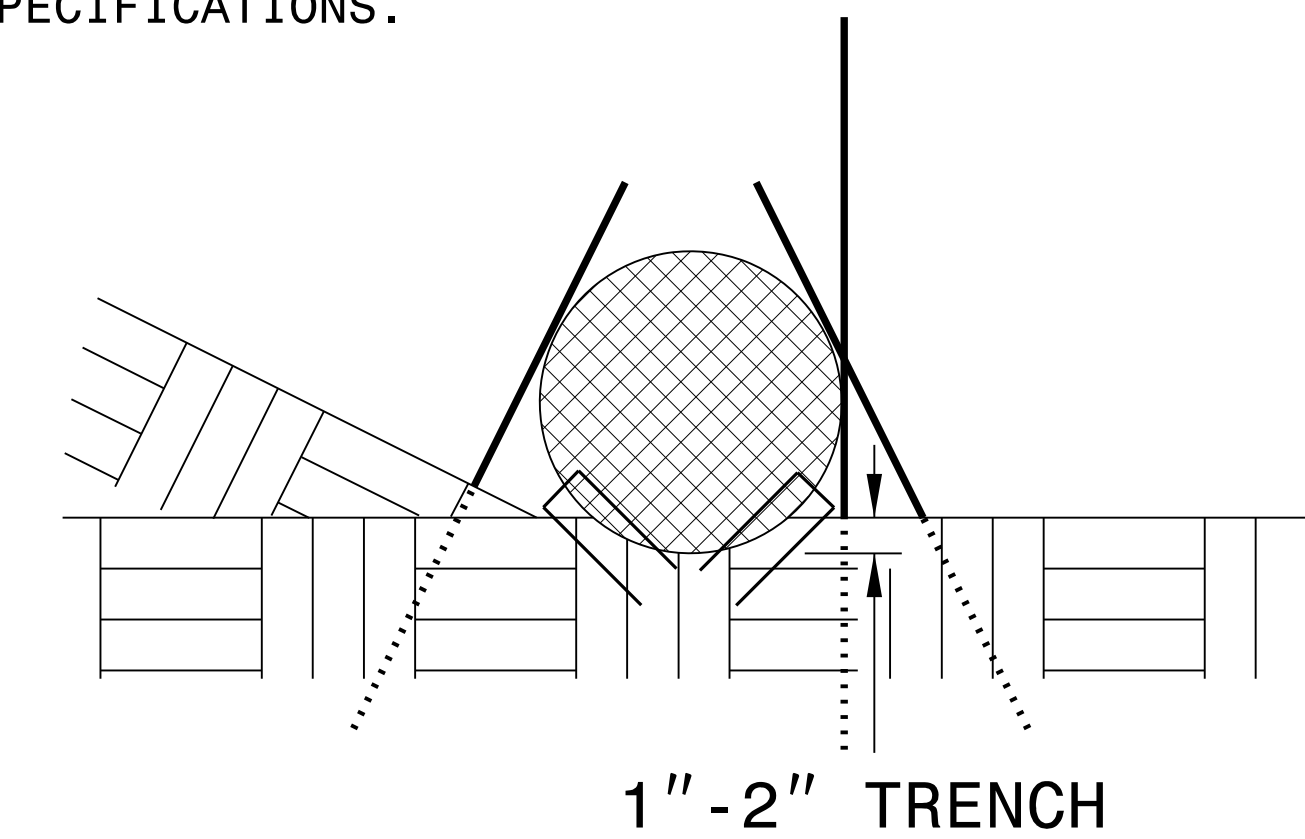
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

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.

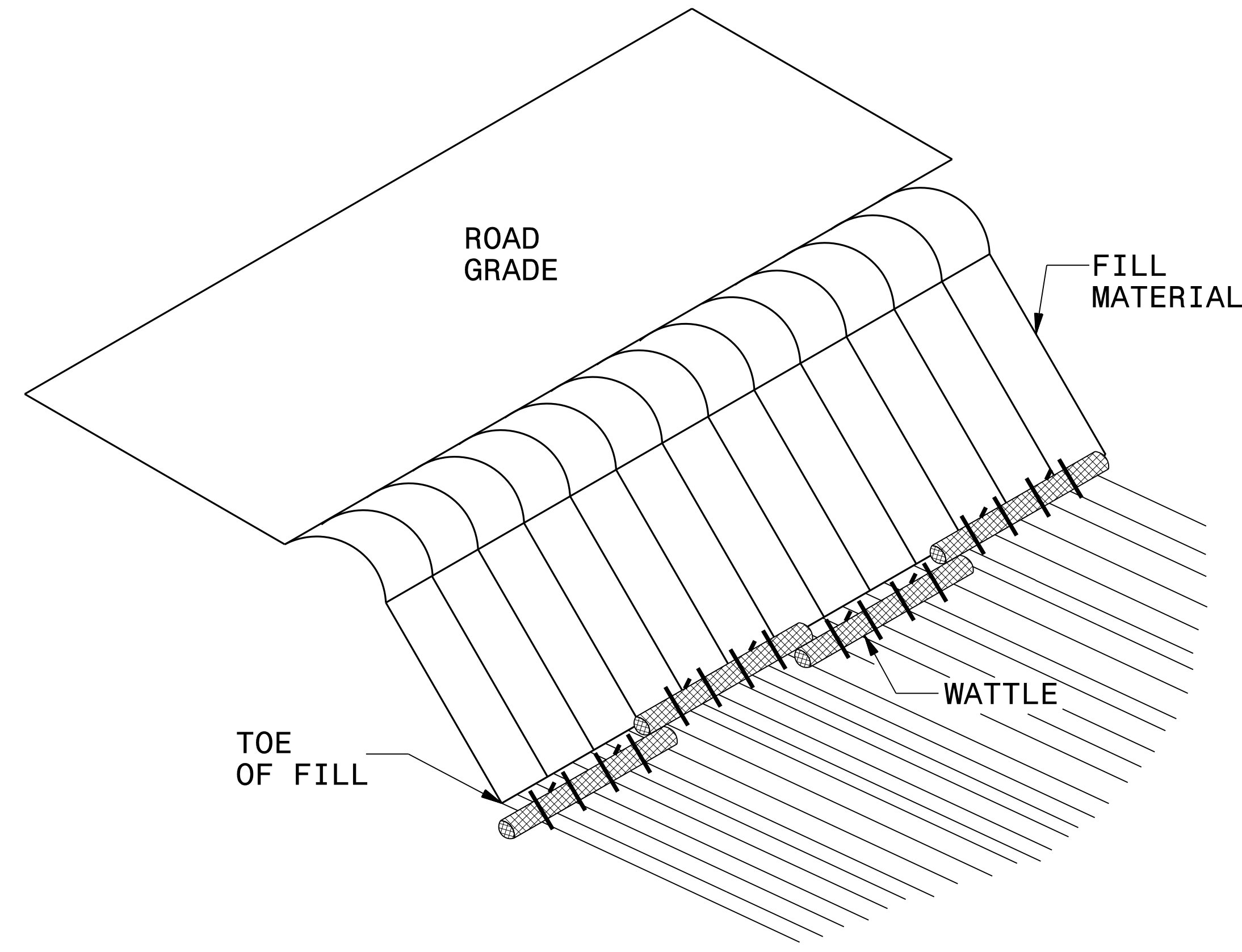
**INSET A**



**SIDE VIEW**

PROJECT REFERENCE NO. <i>R-5709A</i>	SHEET NO. <i>EC-02D</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

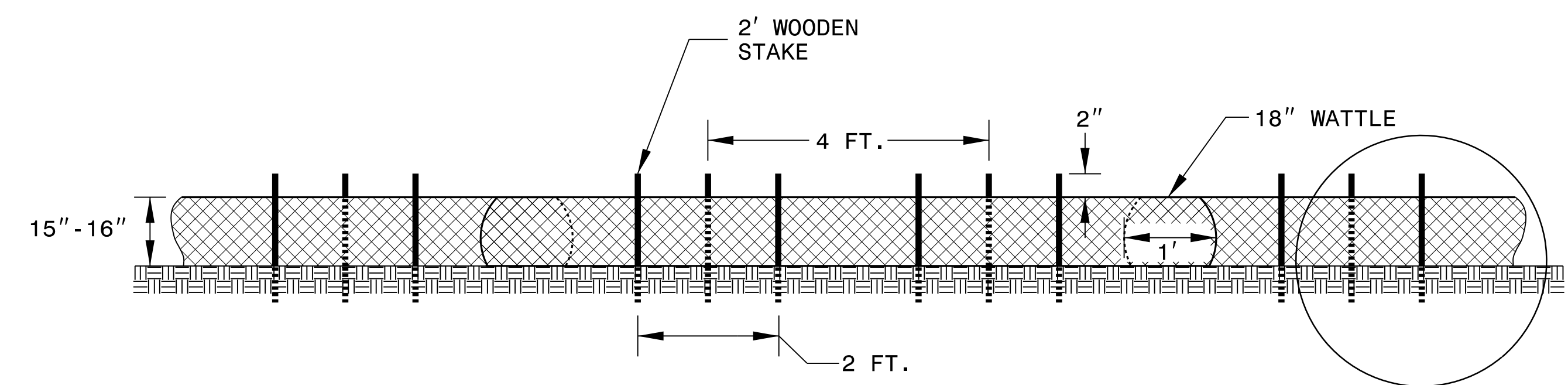
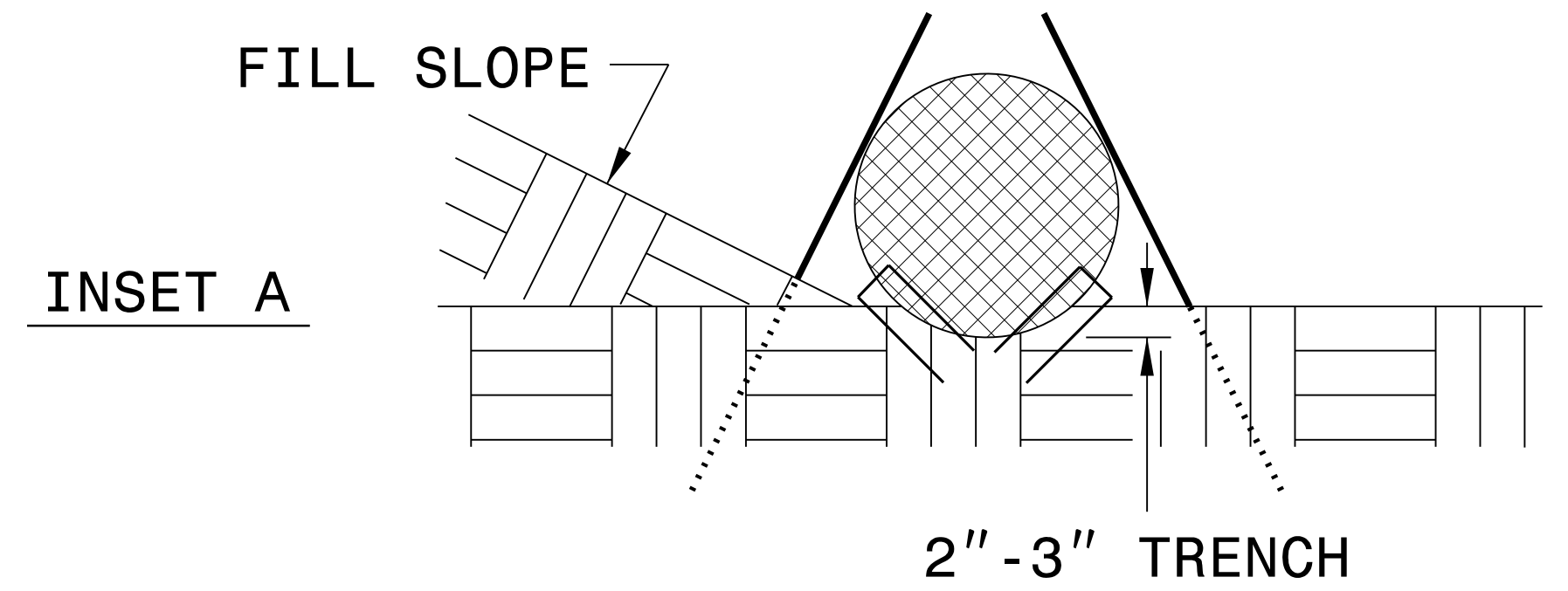
# WATTLE BARRIER DETAIL



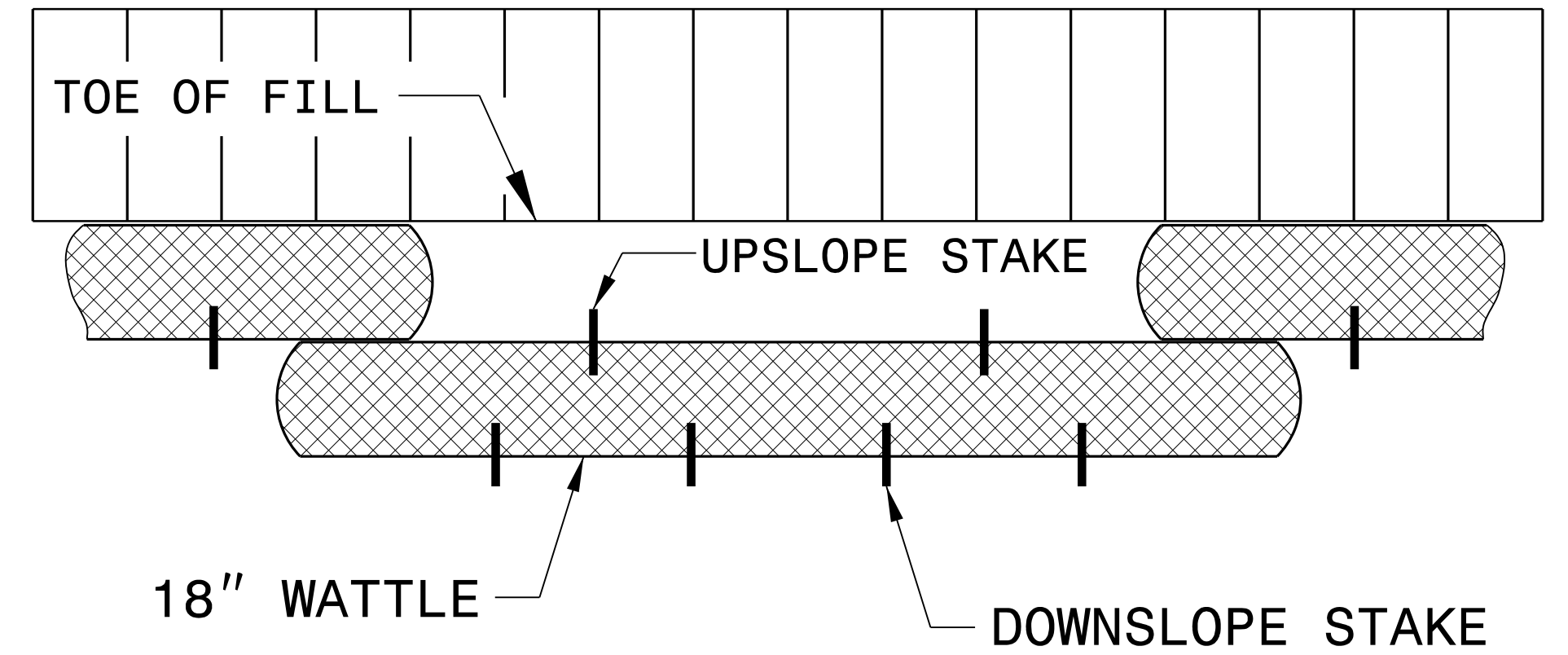
**ISOMETRIC VIEW**

**NOTES:**

- USE MINIMUM 18 IN. NOMINAL DIAMETER EXCELSIOR WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLES 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 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.
- FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.



**FRONT VIEW**

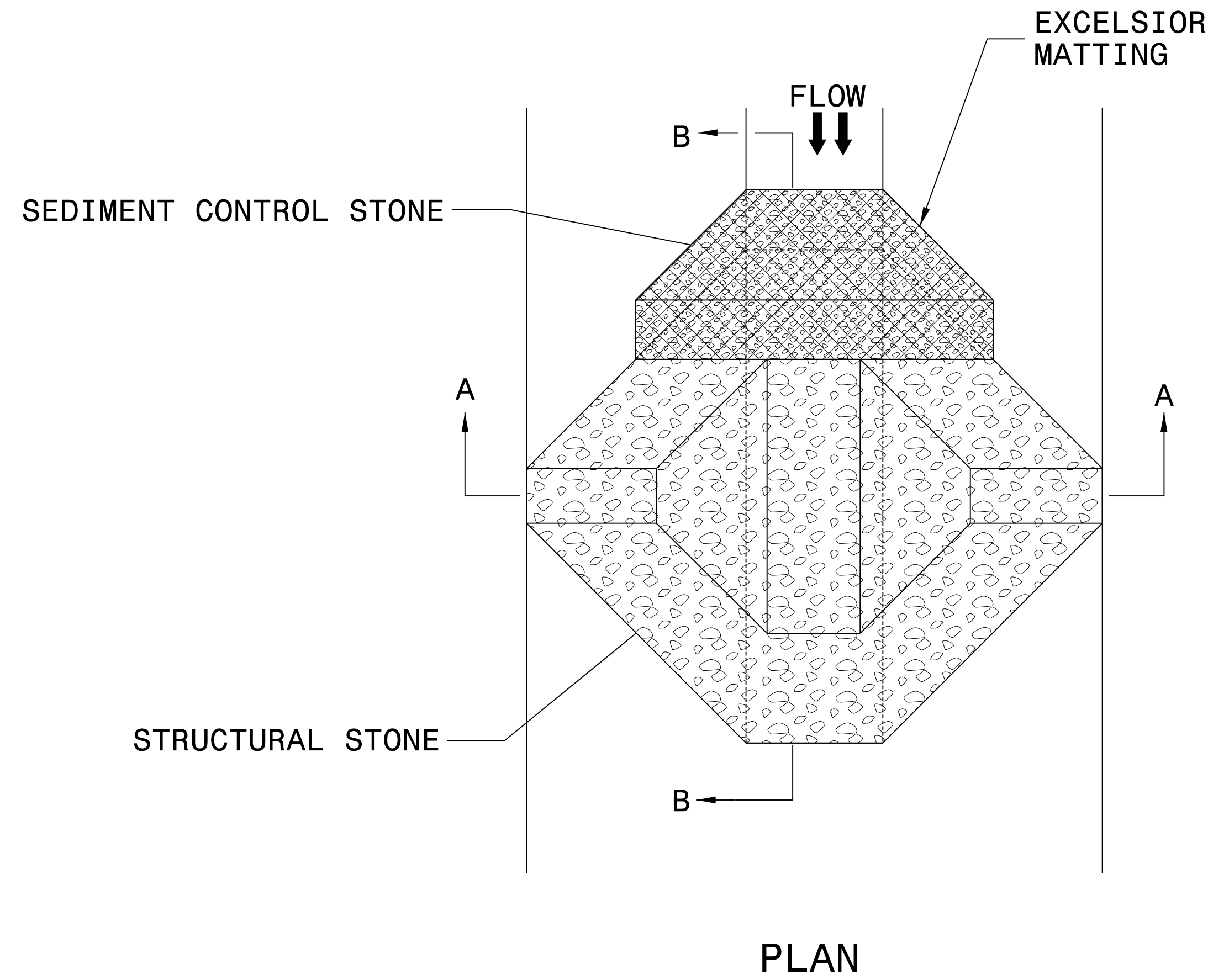


**TOP VIEW**



PROJECT REFERENCE NO. <i>R-5709A</i>	SHEET NO. <i>EC-02E</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



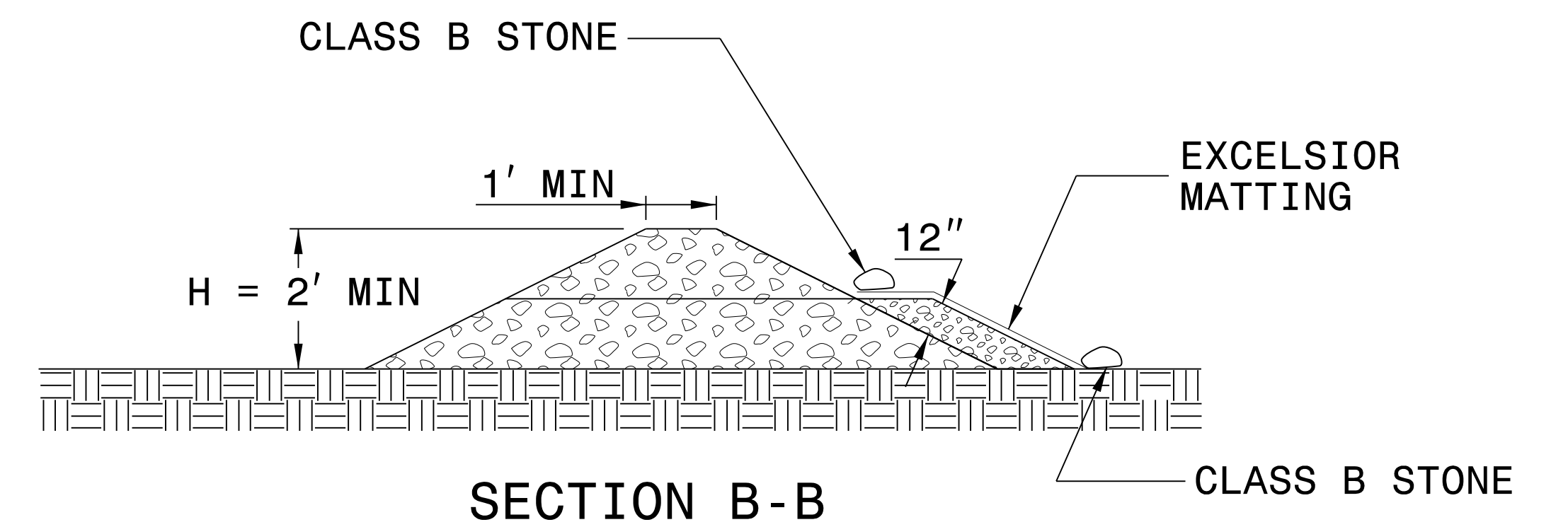
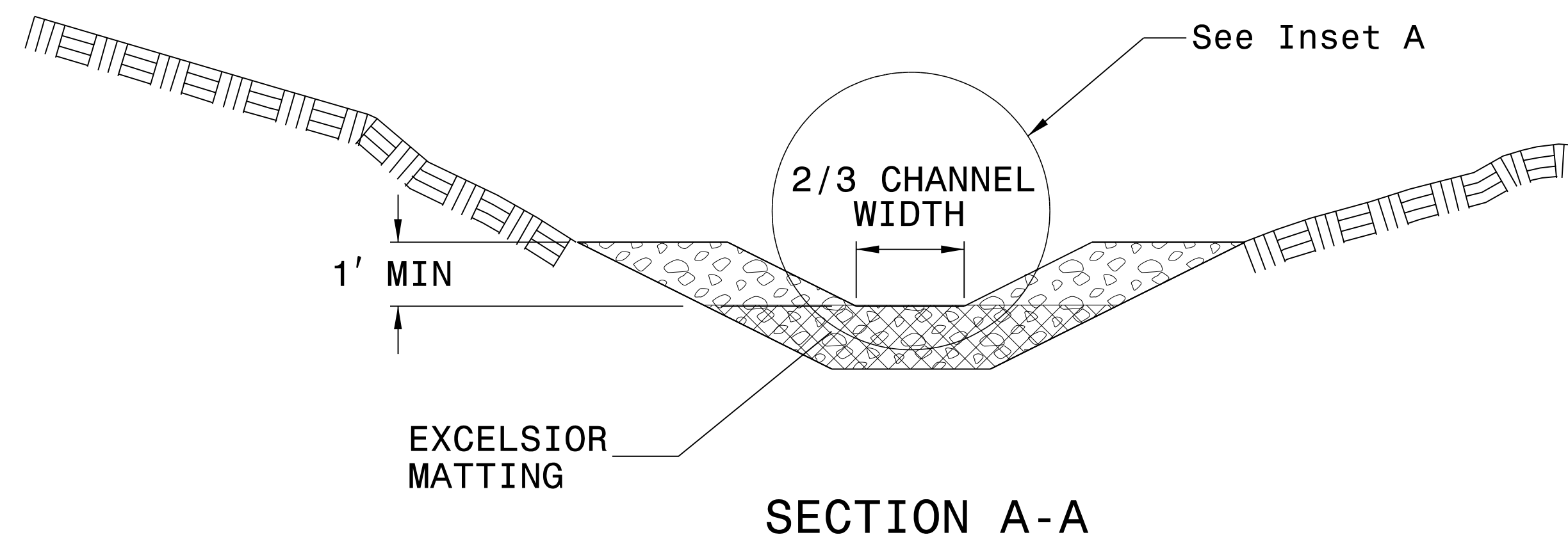
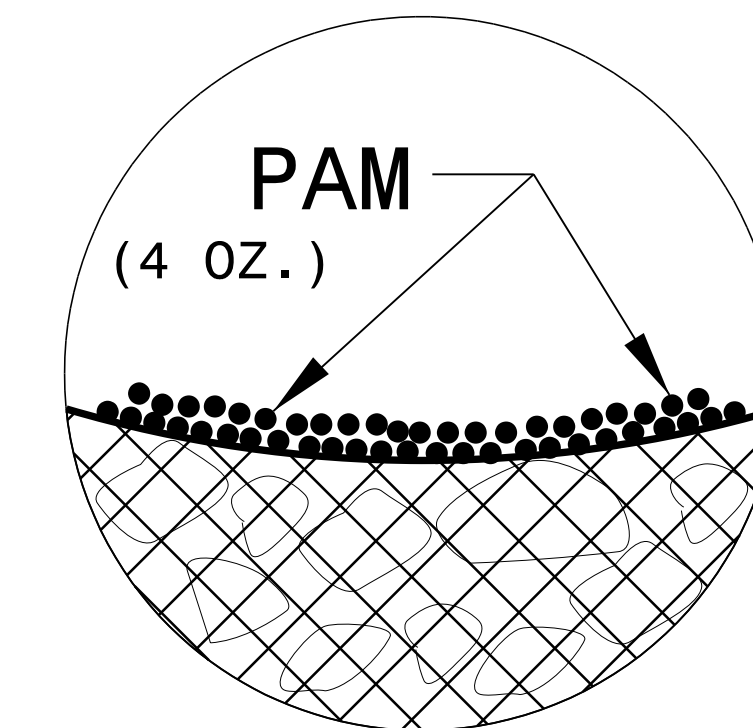
**NOTES:**

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.



NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>R-5709A</i>	SHEET NO. <i>EC-03</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

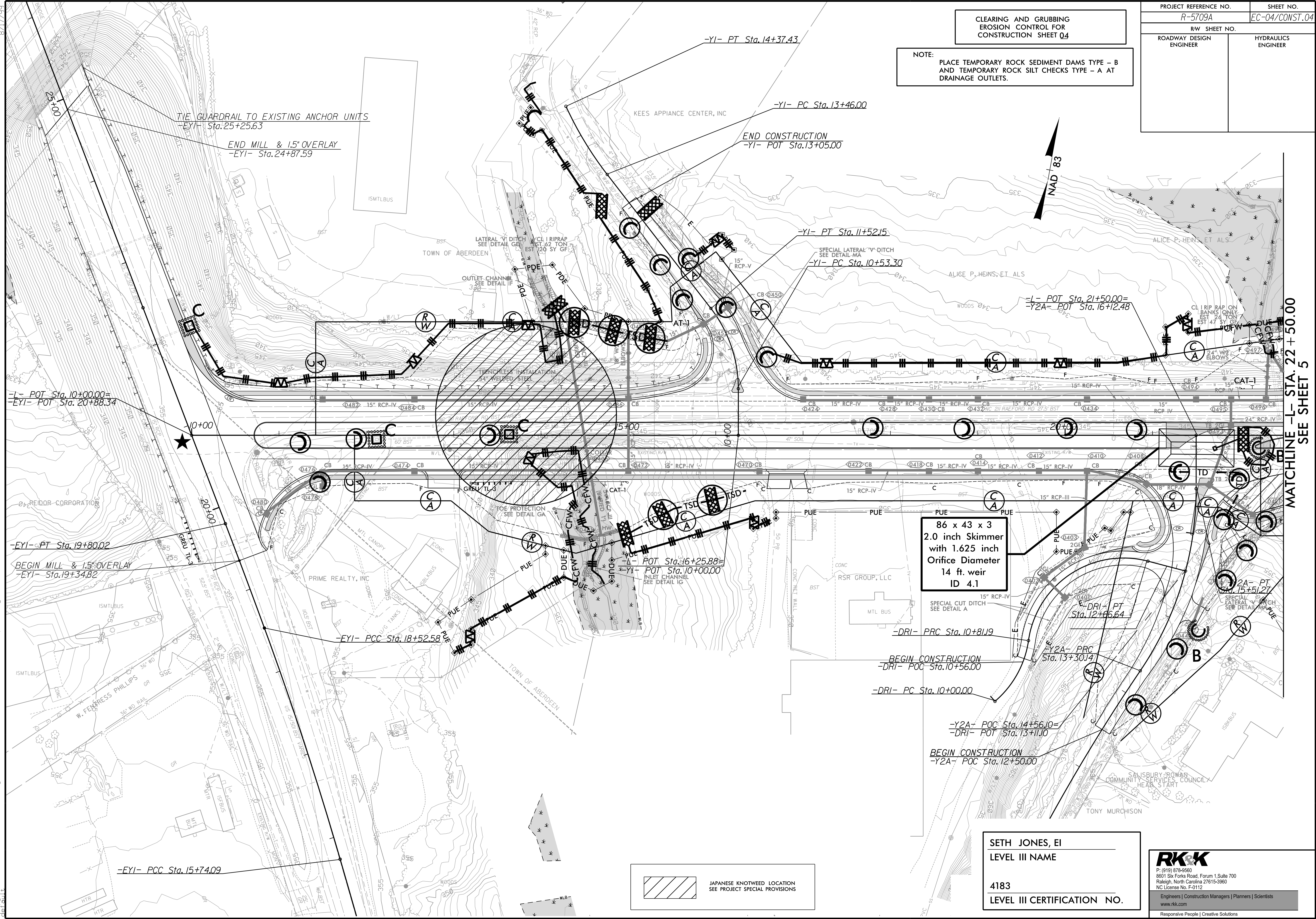
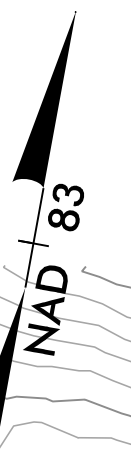
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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.



PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-04/CONST.04
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

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



86 x 43 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
14 ft. weir  
ID 4.1

JAPANESE KNOTWEED LOCATION  
SEE PROJECT SPECIAL PROVISIONS

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

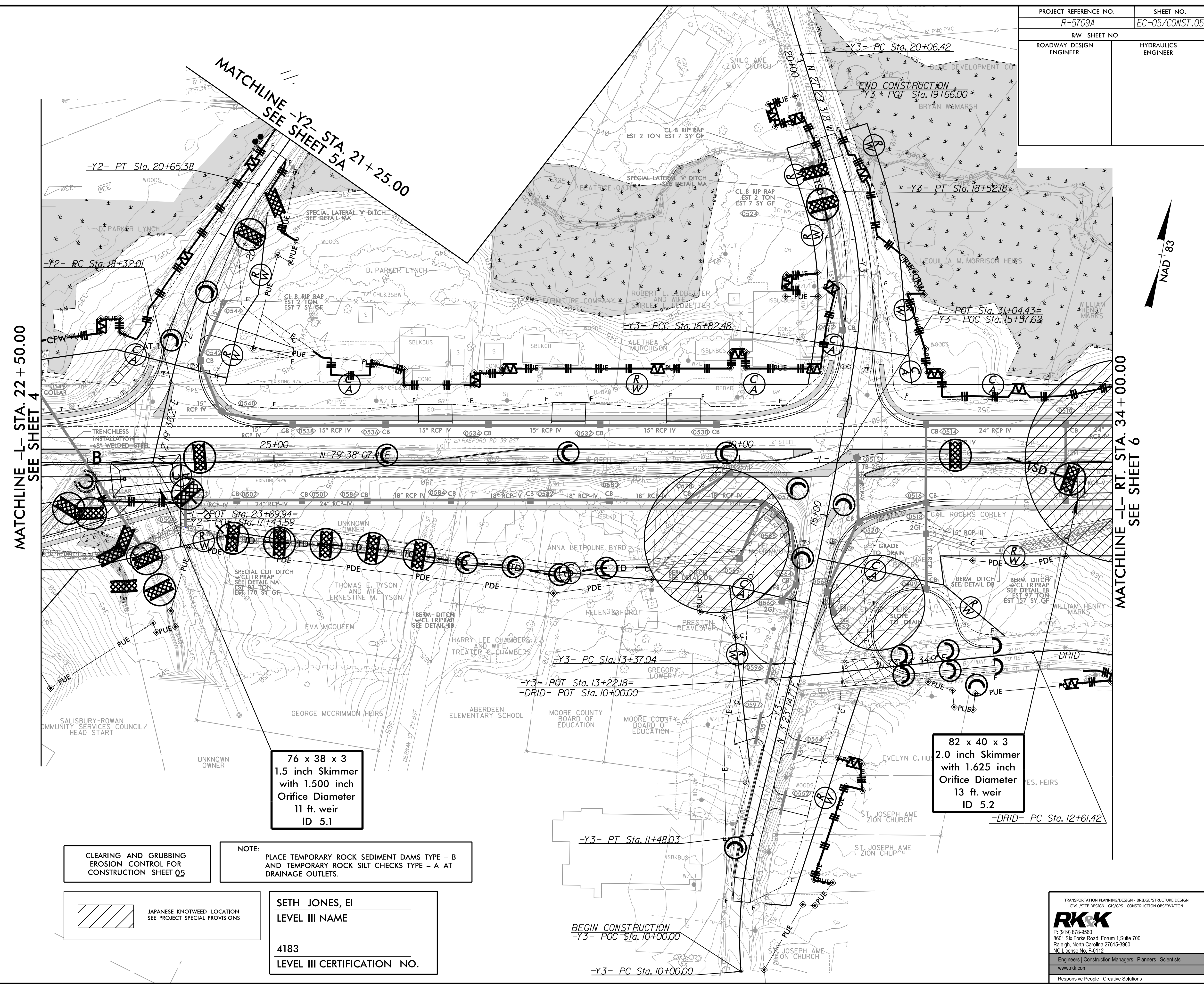
**RK&K**  
P: (919) 878-8880  
6601 Six Forks Road, Forum 1, Suite 700  
Raleigh, North Carolina 27615-3960  
NC License No. F-0112  
Engineers | Construction Managers | Planners | Scientists  
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MATCHLINE -L- STA. 22 + 50.00  
SEE SHEET 5

7/23/2021  
R:\3172021\195709A\195709A\_EC\_ESCC.psh04.dgn  
Data\Hydraulics\CADD\PSH\EC - Early Start C&G\Section 1\195709A\_EC\_ESCC.psh04.dgn

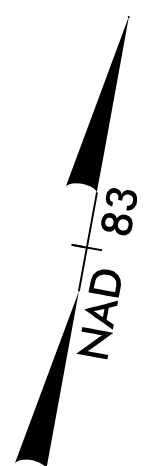


PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-05/CONST.05
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCHLINE -L- STA. 22 + 50.00  
SEE SHEET 4

MATCHLINE -L- RT. STA. 34 + 00.00  
SEE SHEET 6



76 x 38 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
11 ft. weir  
ID 5.1

82 x 40 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
13 ft. weir  
ID 5.2

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 05

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

 JAPANESE KNOTWEED LOCATION  
SEE PROJECT SPECIAL PROVISIONS

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

8/17/09  
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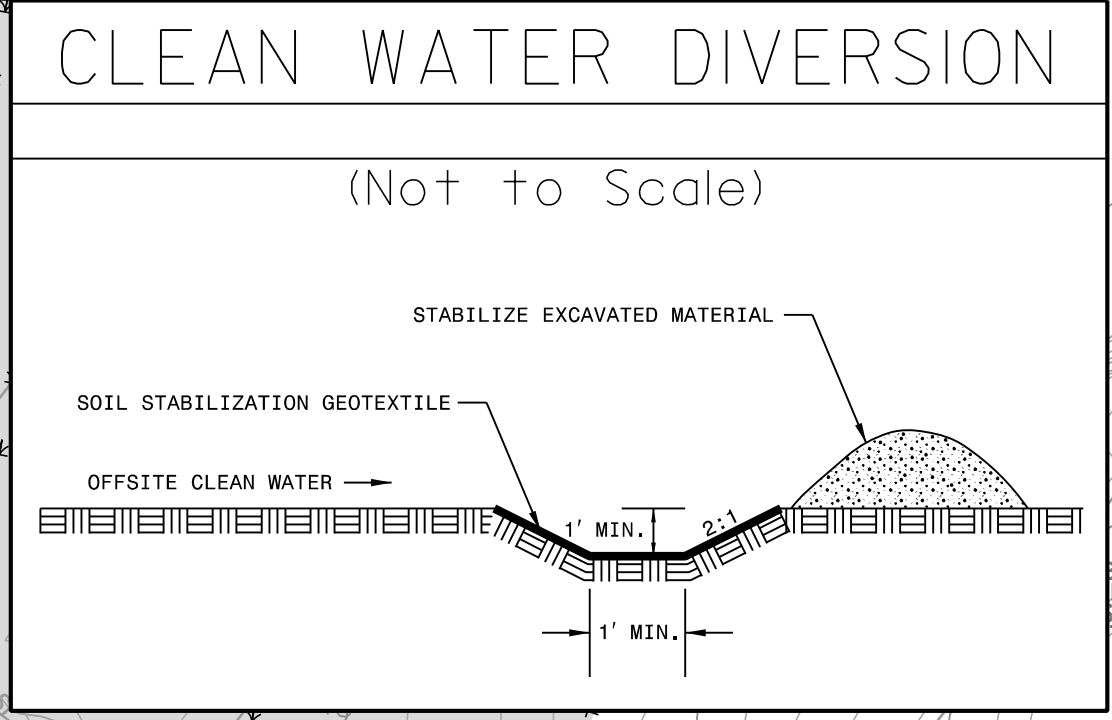
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GEOTECHNICAL - CONSTRUCTION OBSERVATION

**RK&K**  
P: (919) 378-9500  
8601 Six Forks Road, Forum 1, Suite 700  
Raleigh, North Carolina 27615-3960  
NC License No. F-0112

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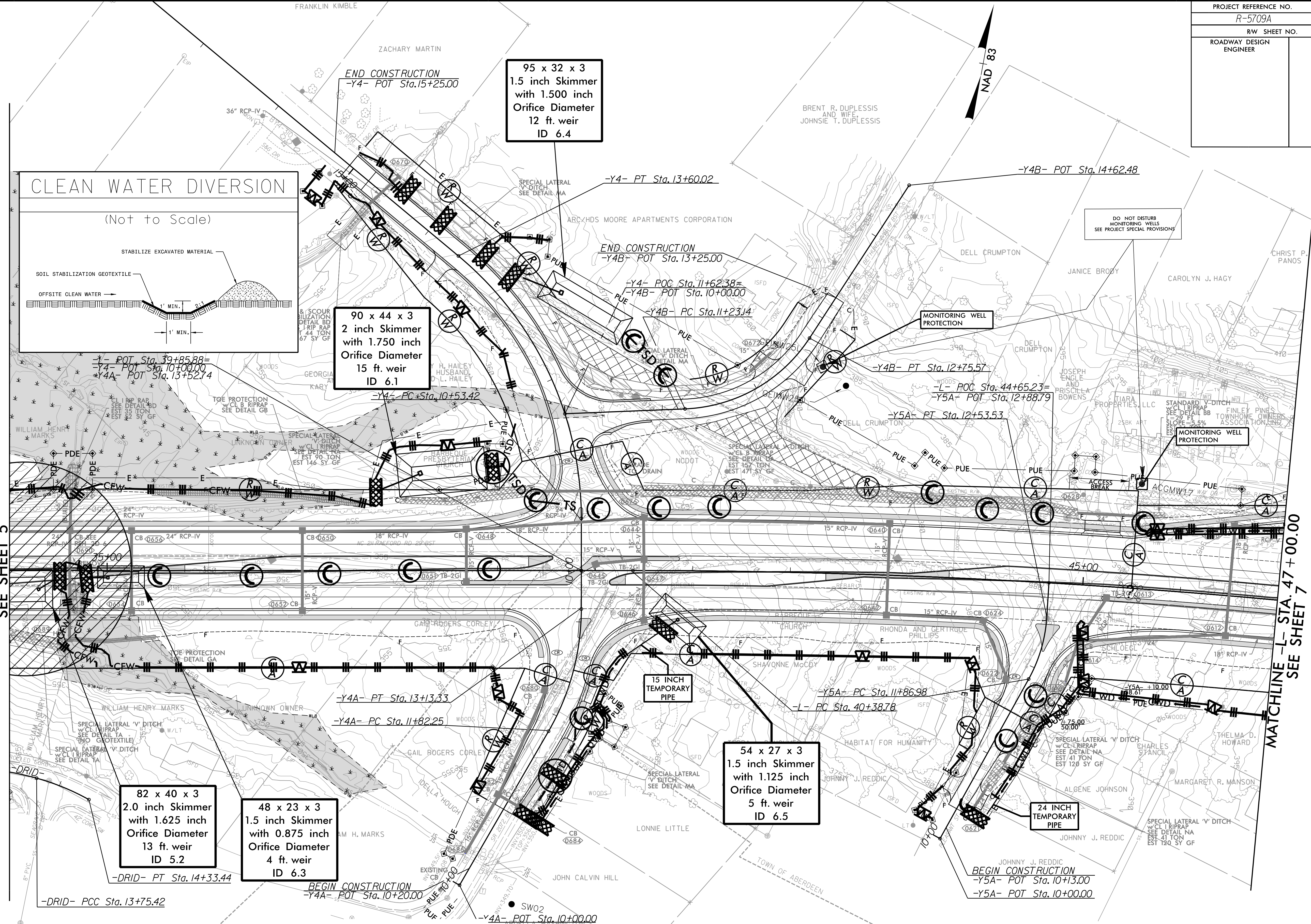


PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-06/CONST.06
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCHLINE -L- STA. 34 + 00.00  
SEE SHEET 5

MATCHLINE -L- STA. 47 + 00.00  
SEE SHEET 7



DO NOT DISTURB MONITORING WELLS SEE PROJECT SPECIAL PROVISIONS

MONITORING WELL PROTECTION

24 INCH TEMPORARY PIPE

15 INCH TEMPORARY PIPE

54 x 27 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
5 ft. weir  
ID 6.5

90 x 44 x 3  
2 inch Skimmer  
with 1.750 inch  
Orifice Diameter  
15 ft. weir  
ID 6.1

95 x 32 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
12 ft. weir  
ID 6.4

82 x 40 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
13 ft. weir  
ID 5.2

48 x 23 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 6.3



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 06

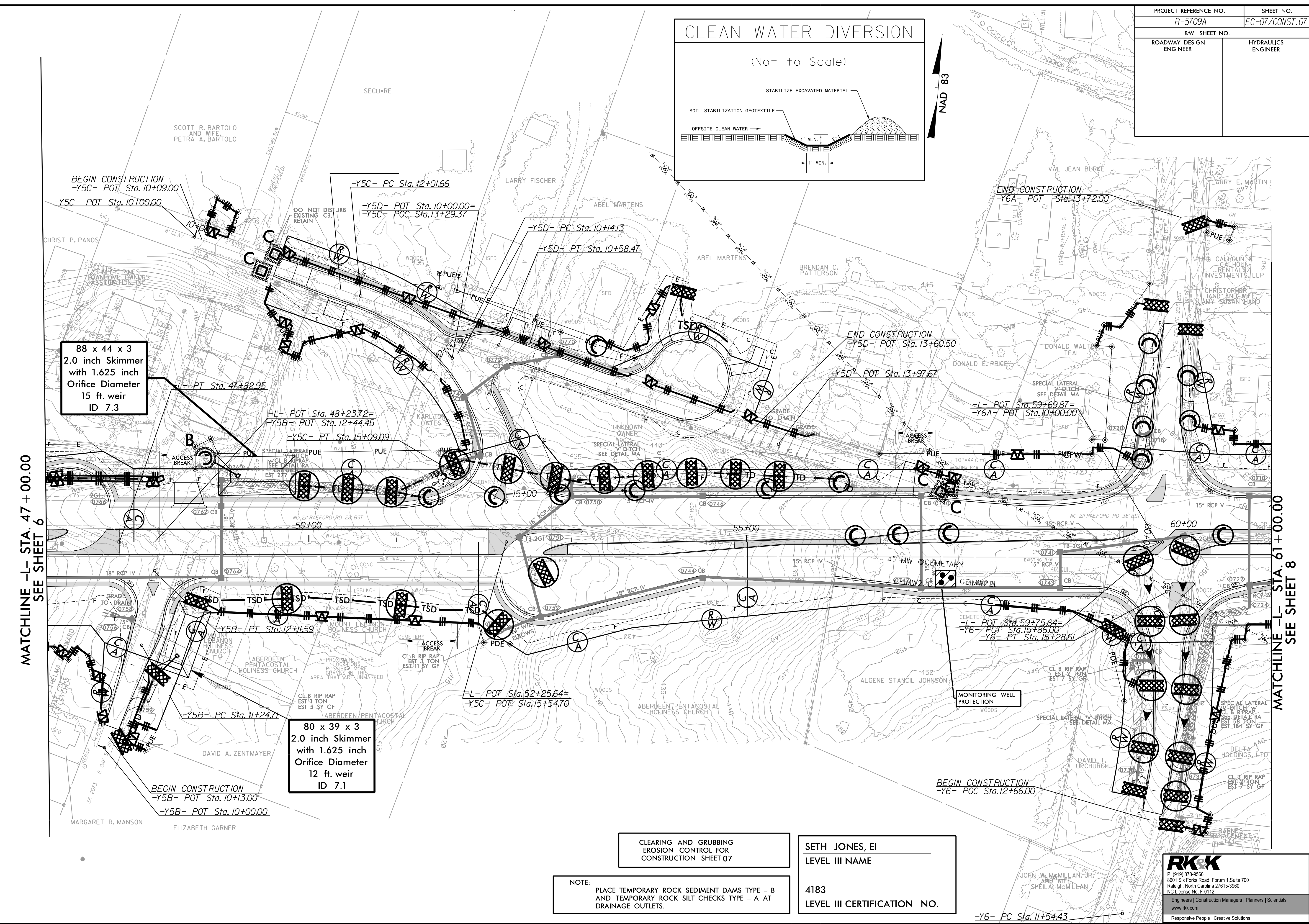
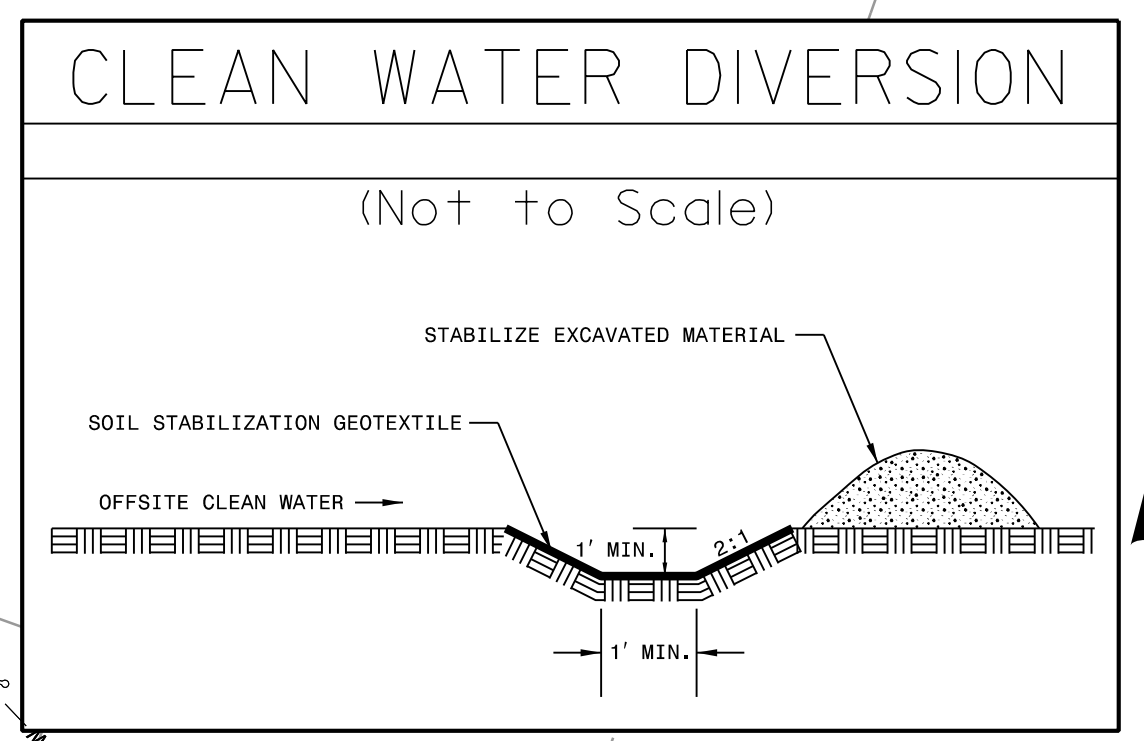
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

**RK&K**  
P: (919) 378-9500  
F: (919) 378-9500  
8601 Six Forks Road, Forum 1, Suite 700  
Raleigh, North Carolina 27615-3960  
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8/17/99  
F:\CH2\2021\Projects\1\5709A\Section 1\1R5709A\_EC\_ESCG\_psh06.dgn



PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-07/CONST.07
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCHLINE -L- STA. 47 + 00.00  
SEE SHEET 6

MATCHLINE -L- STA. 61 + 00.00  
SEE SHEET 8

88 x 44 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
15 ft. weir  
ID 7.3

80 x 39 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
12 ft. weir  
ID 7.1

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 07

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

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

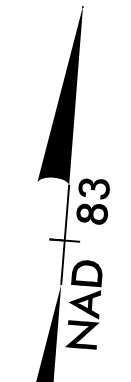
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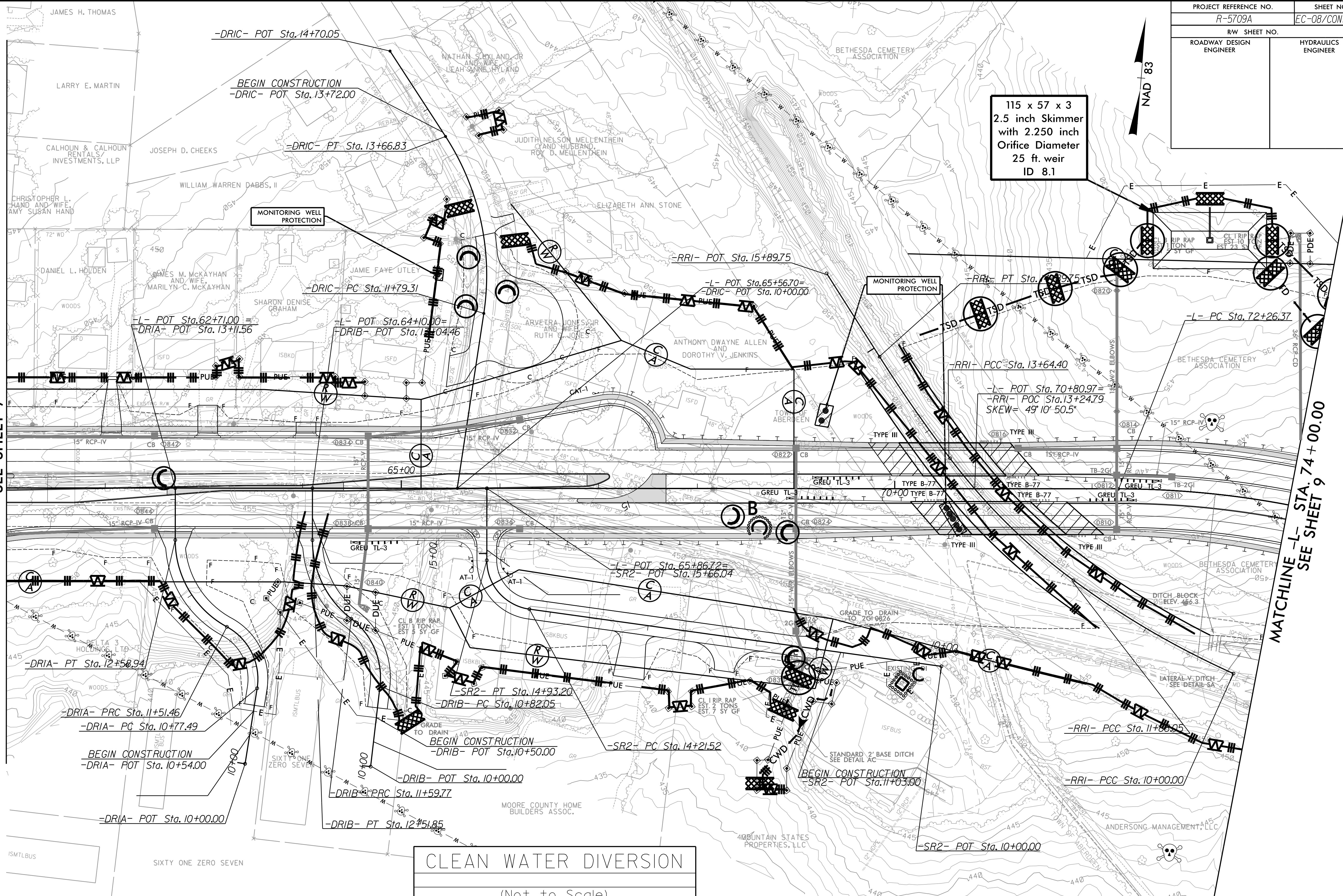
PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-08/CONST.08
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

115 x 57 x 3  
2.5 inch Skimmer  
with 2.250 inch  
Orifice Diameter  
25 ft. weir  
ID 8.1



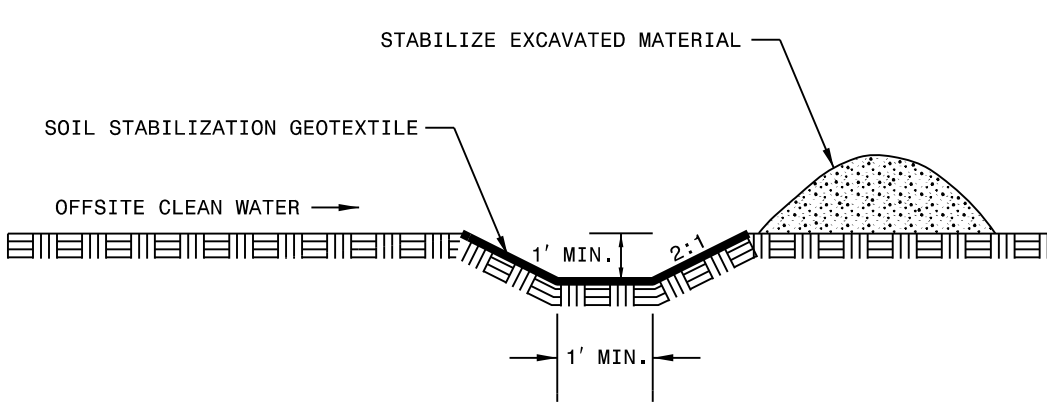
MATCHLINE -L- STA. 61 + 00.00  
SEE SHEET 7

MATCHLINE -L- STA. 74 + 00.00  
SEE SHEET 9



**CLEAN WATER DIVERSION**

(Not to Scale)



**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 08**

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

**SETH JONES, EI**  
LEVEL III NAME  
  
**4183**  
LEVEL III CERTIFICATION NO.

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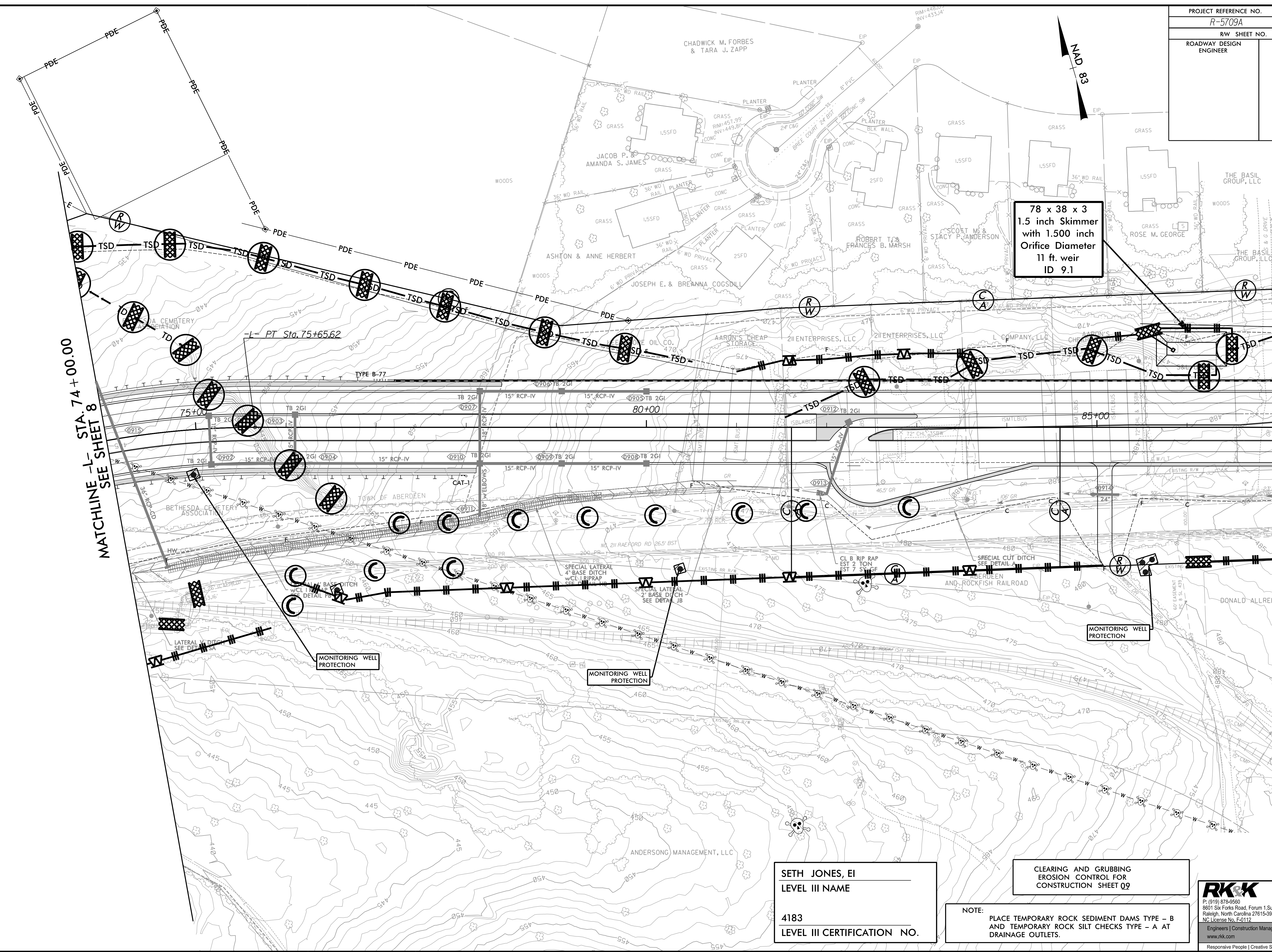
PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-09/CONST.09
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

78 x 38 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
11 ft. weir  
ID 9.1

MATCHLINE -L- STA. 74 + 00.00  
SEE SHEET 8

MATCHLINE -L- STA. 87 + 00.00  
SEE SHEET 10

8/17/09  
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SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

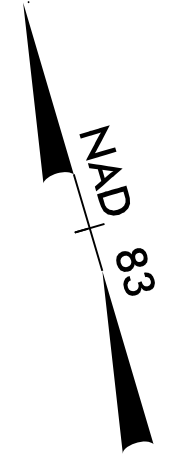
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 09

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

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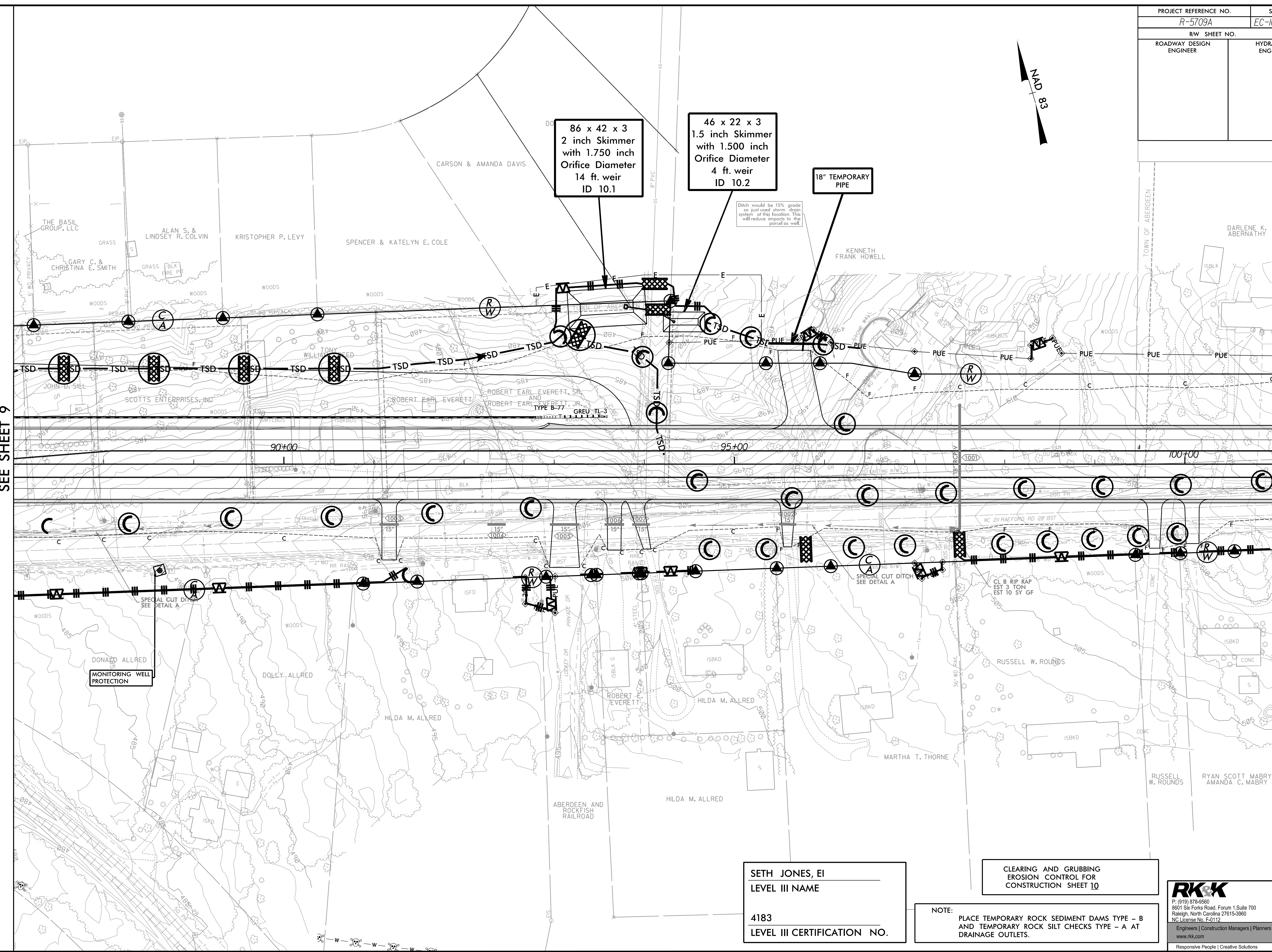


PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-10/CONST.10
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 87 + 00.00  
SEE SHEET 9

MATCHLINE -L- STA. 101 + 00.00  
SEE SHEET 11



86 x 42 x 3  
2 inch Skimmer  
with 1.750 inch  
Orifice Diameter  
14 ft. weir  
ID 10.1

46 x 22 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
4 ft. weir  
ID 10.2

18" TEMPORARY  
PIPE

Ditch would be 15% grade  
so just used storm drain  
system at this location. This  
will reduce impacts to the  
parcel as well.

DONALD ALLRED  
MONITORING WELL  
PROTECTION

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10

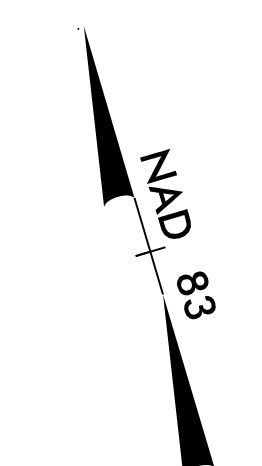
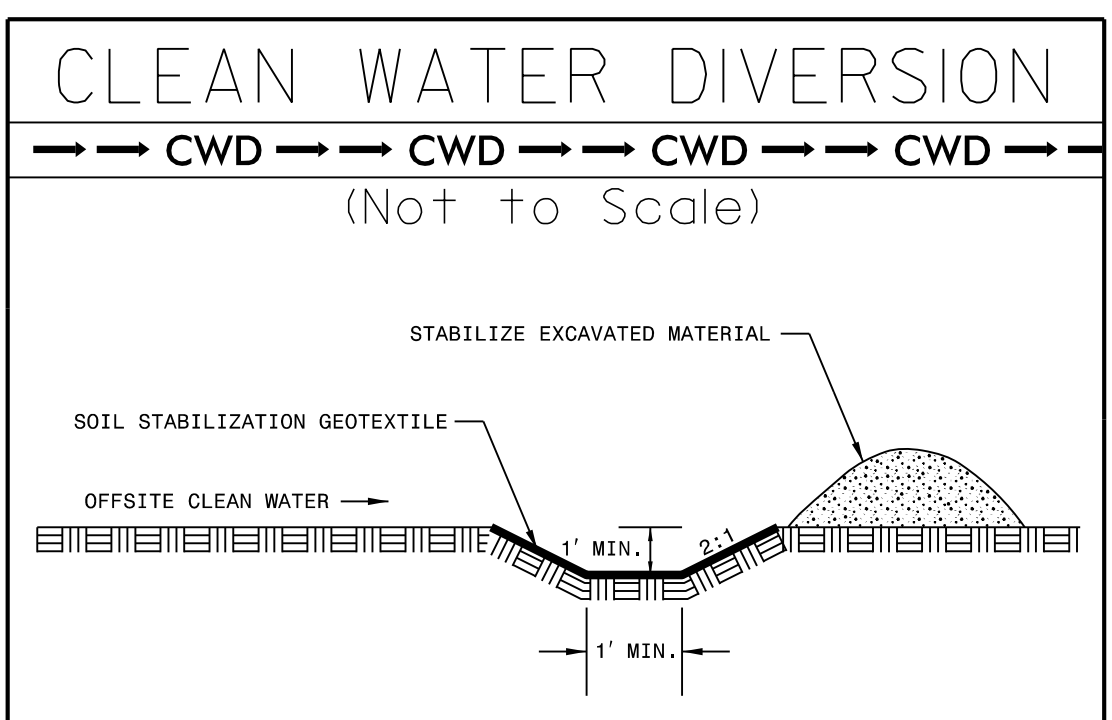
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

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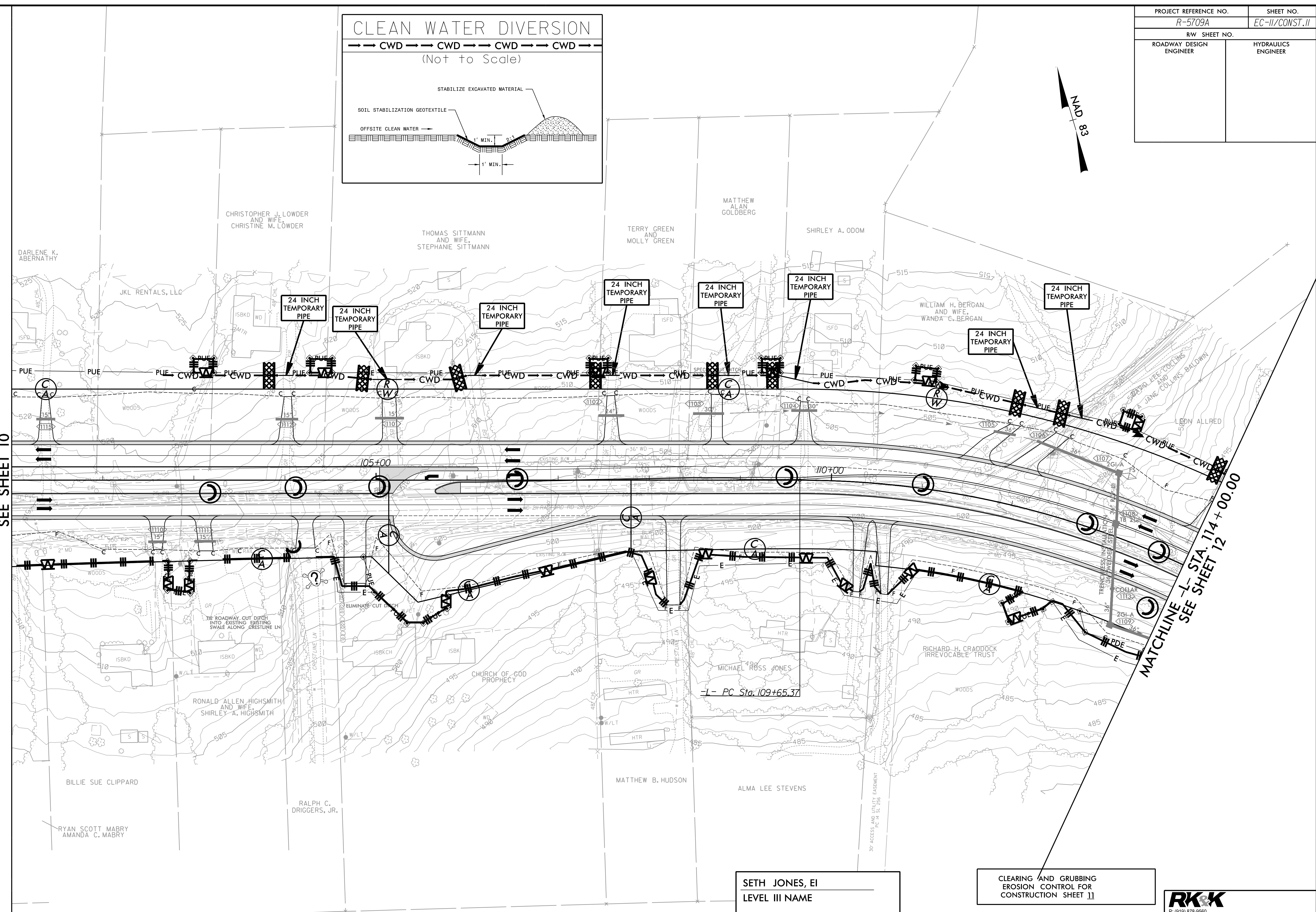


PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-II/CONST. II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 101+00.00  
SEE SHEET 10

MATCHLINE -L- STA. 114+00.00  
SEE SHEET 12



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 11

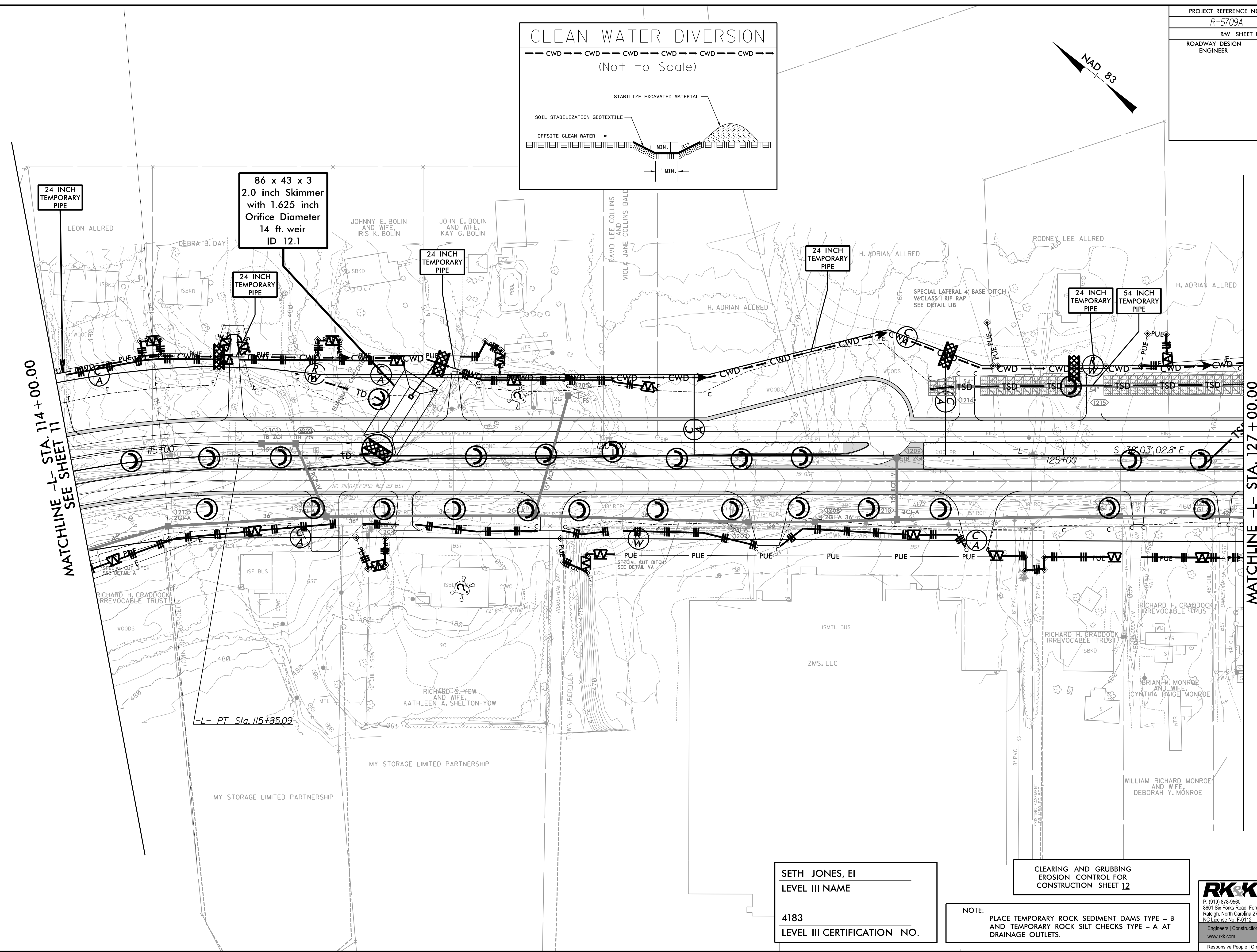
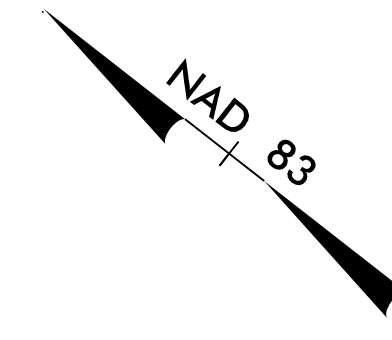
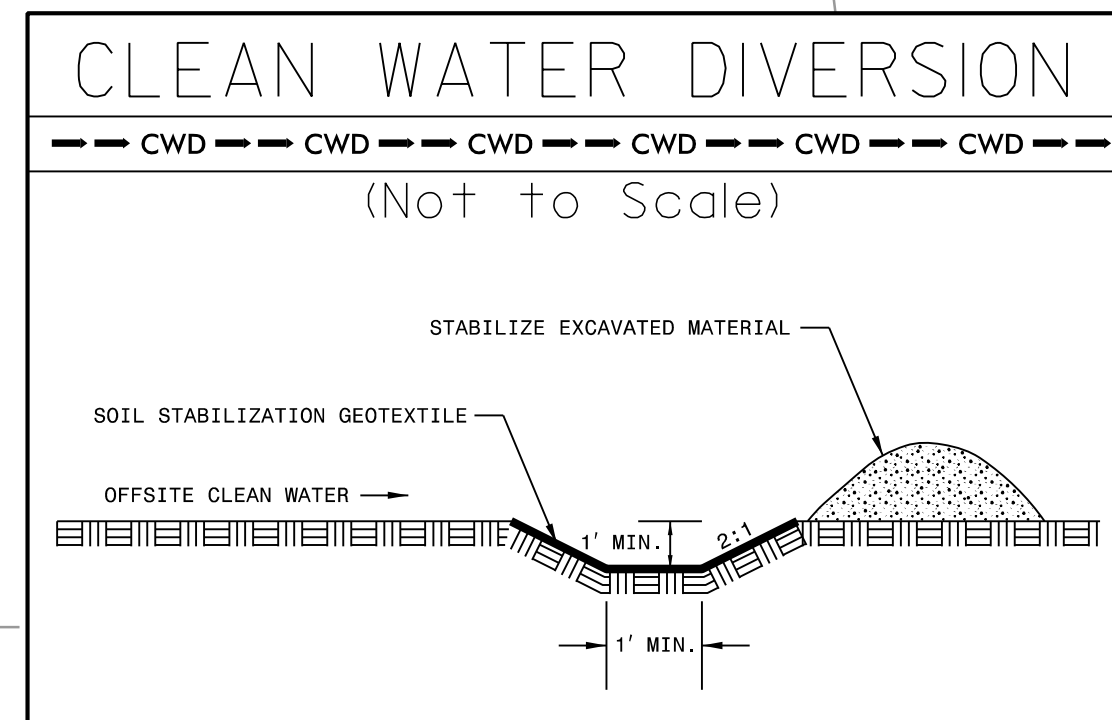
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-12/CONST.12
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 114+00.00  
SEE SHEET 11

MATCHLINE -L- STA. 127+00.00  
SEE SHEET 13

86 x 43 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
14 ft. weir  
ID 12.1

24 INCH  
TEMPORARY  
PIPE

24 INCH  
TEMPORARY  
PIPE

24 INCH  
TEMPORARY  
PIPE

24 INCH  
TEMPORARY  
PIPE

24 INCH  
TEMPORARY  
PIPE

54 INCH  
TEMPORARY  
PIPE

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 12

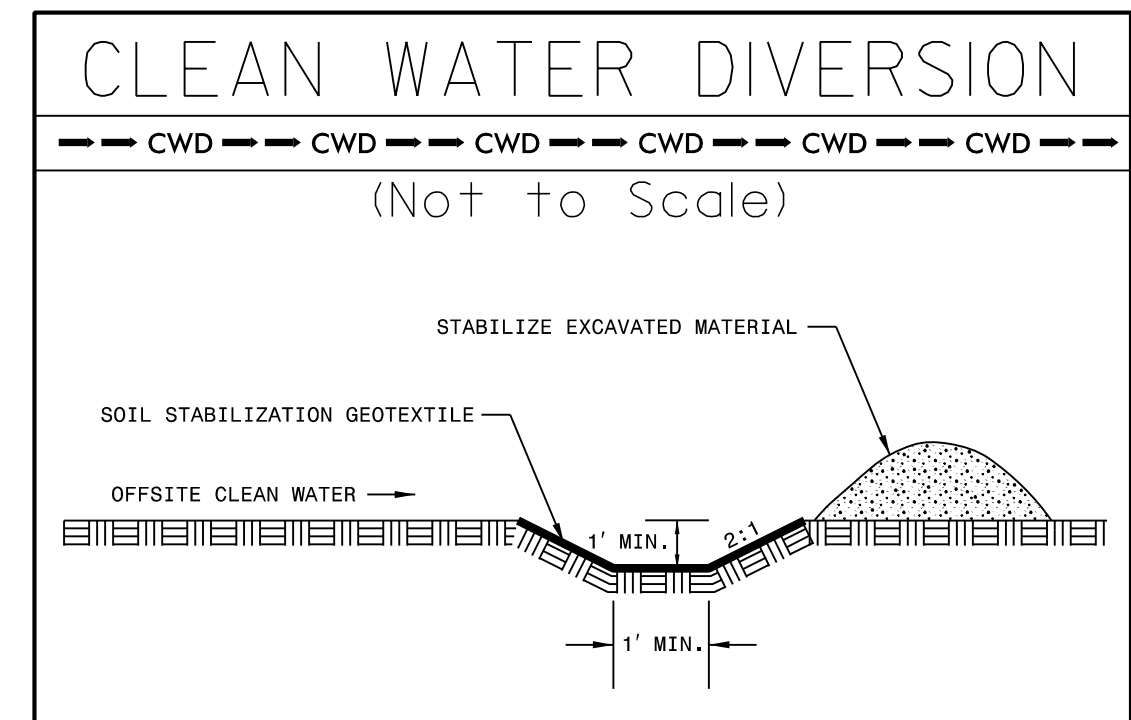
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-13/CONST.13
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



67 x 26 x 3  
1.5 inch Skimmer  
with 1.250 inch  
Orifice Diameter  
7 ft. weir  
ID 13.1

70 x 35 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
9 ft. weir  
ID 13.5

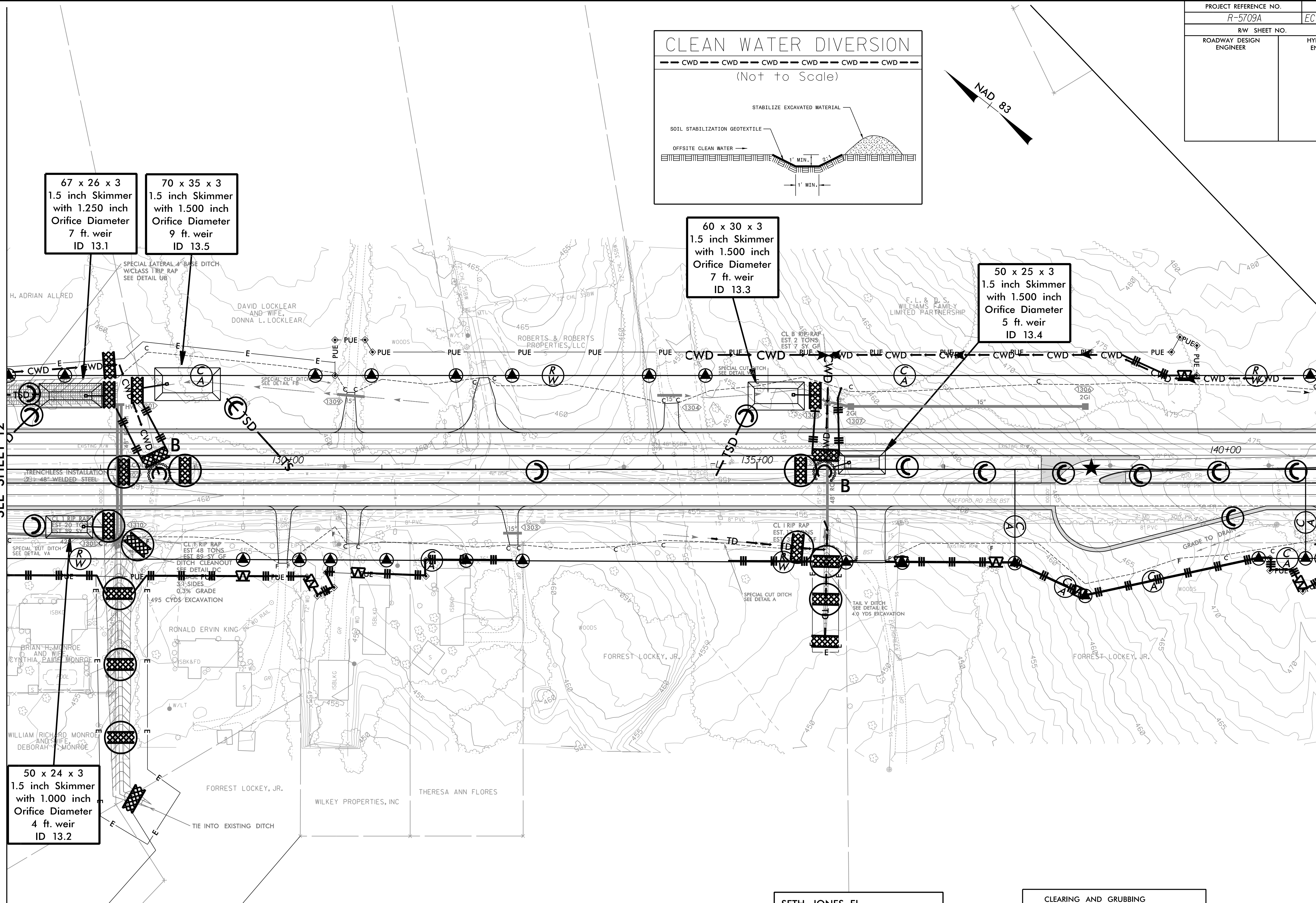
60 x 30 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
7 ft. weir  
ID 13.3

50 x 25 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
5 ft. weir  
ID 13.4

50 x 24 x 3  
1.5 inch Skimmer  
with 1.000 inch  
Orifice Diameter  
4 ft. weir  
ID 13.2

MATCHLINE -L- STA. 127 + 00.00  
SEE SHEET 12

MATCHLINE -L- STA. 141 + 00.00  
SEE SHEET 14



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13

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

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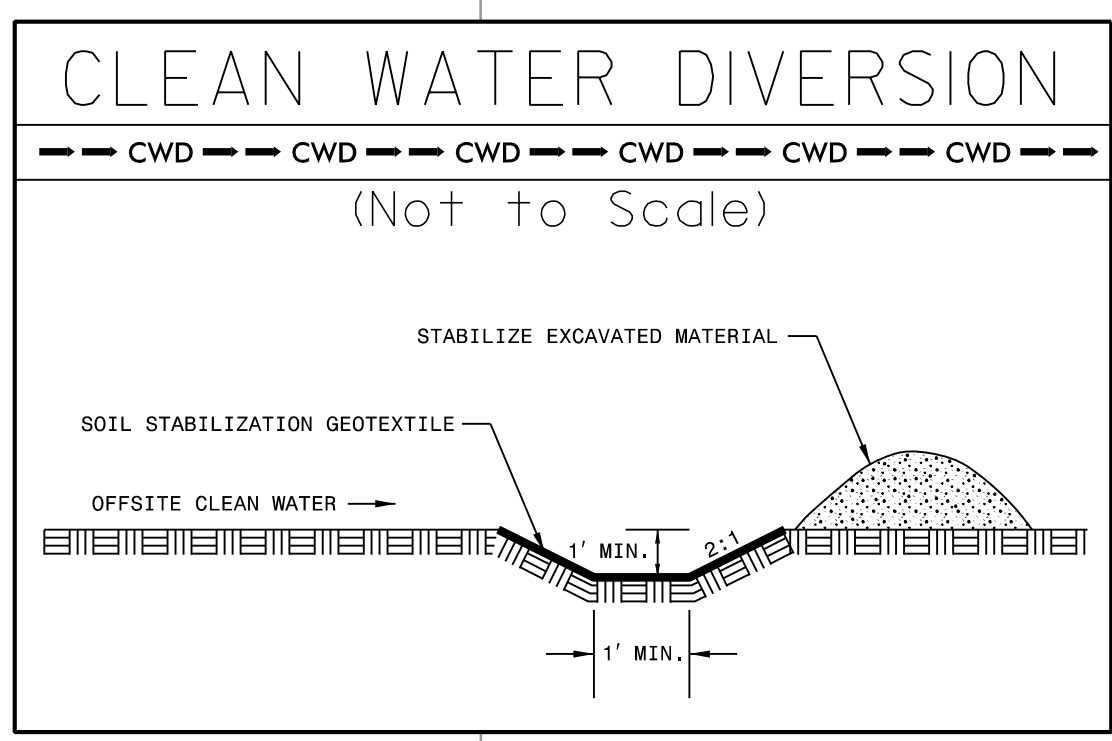
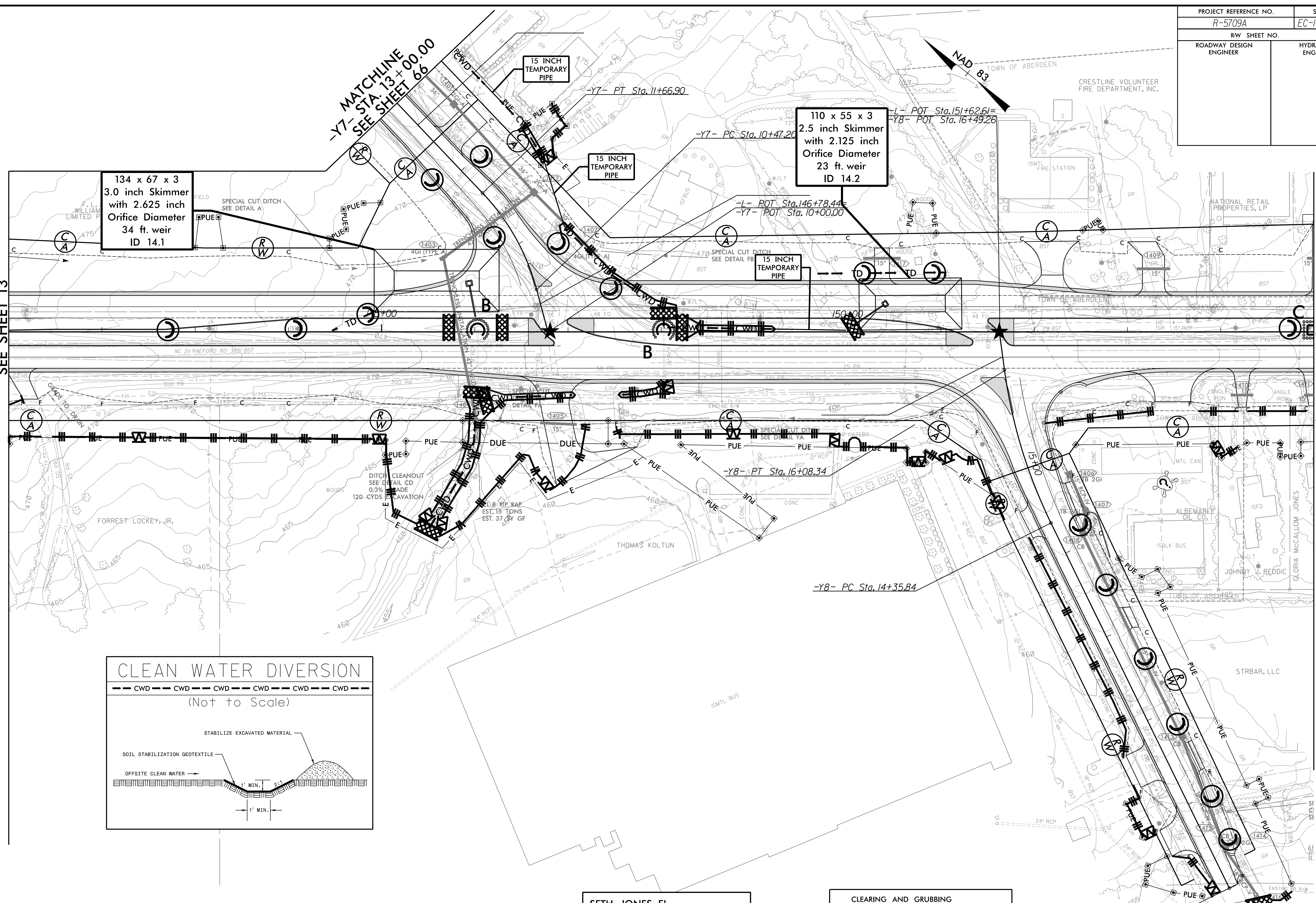
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7/23/2021  
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default



PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-14/CONST.14
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

MATCHLINE -L- STA. 141+00.00  
SEE SHEET 13

MATCHLINE -L- STA. 155+00.00  
SEE SHEET 15



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 14

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

BEGIN CONSTRUCTION  
-Y8- POT Sta. 10+00.00

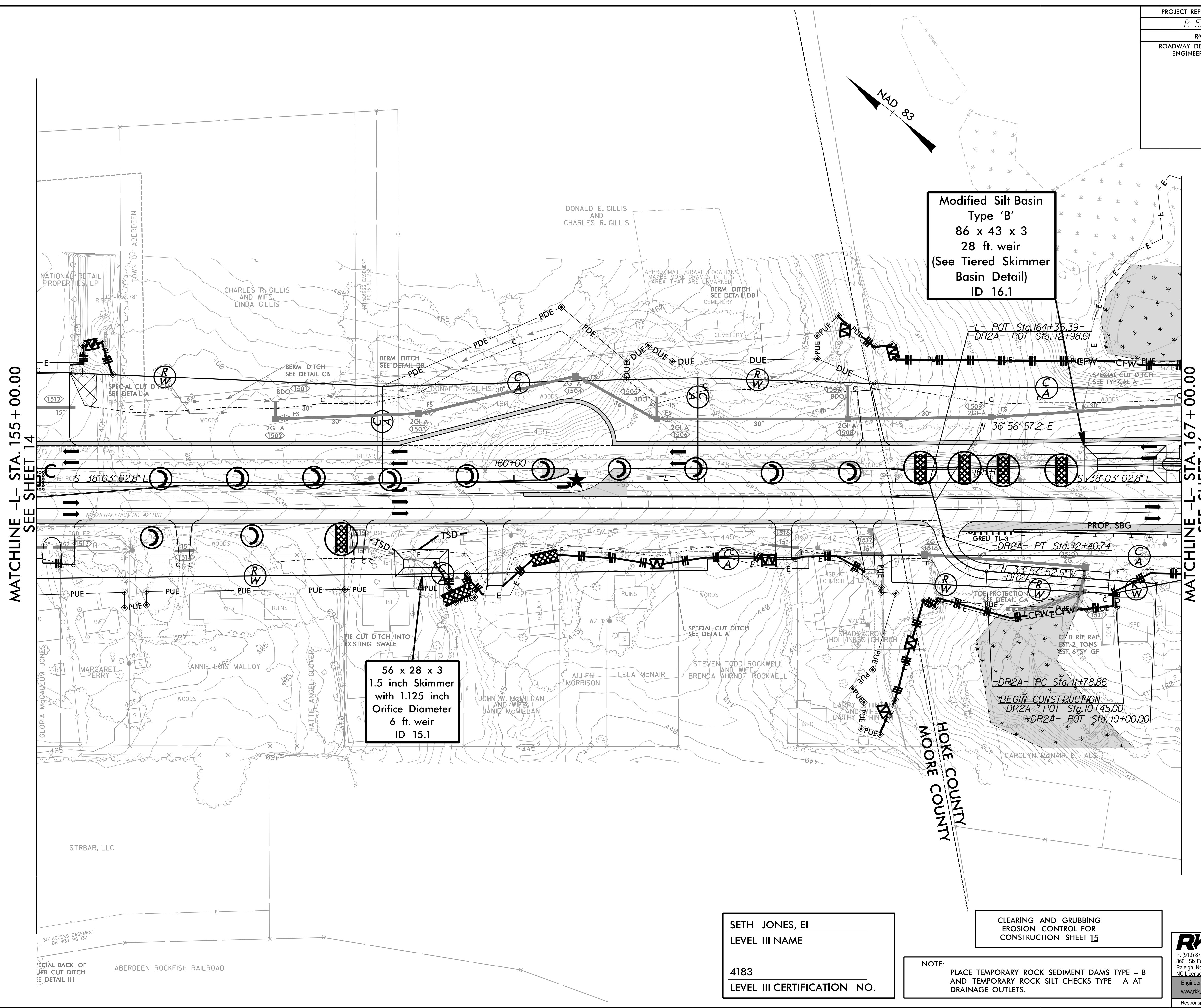
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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-15/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**Modified Silt Basin**  
 Type 'B'  
 86 x 43 x 3  
 28 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 16.1

**56 x 28 x 3**  
 1.5 inch Skimmer  
 with 1.125 inch  
 Orifice Diameter  
 6 ft. weir  
 ID 15.1

**SETH JONES, EI**  
 LEVEL III NAME  
  
 4183  
 LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 15

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

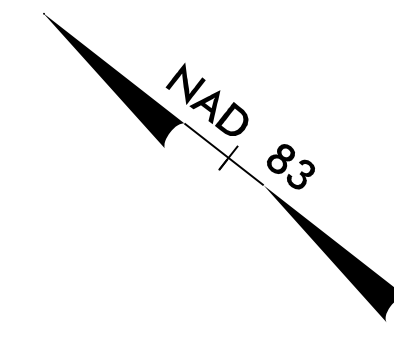
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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-16/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



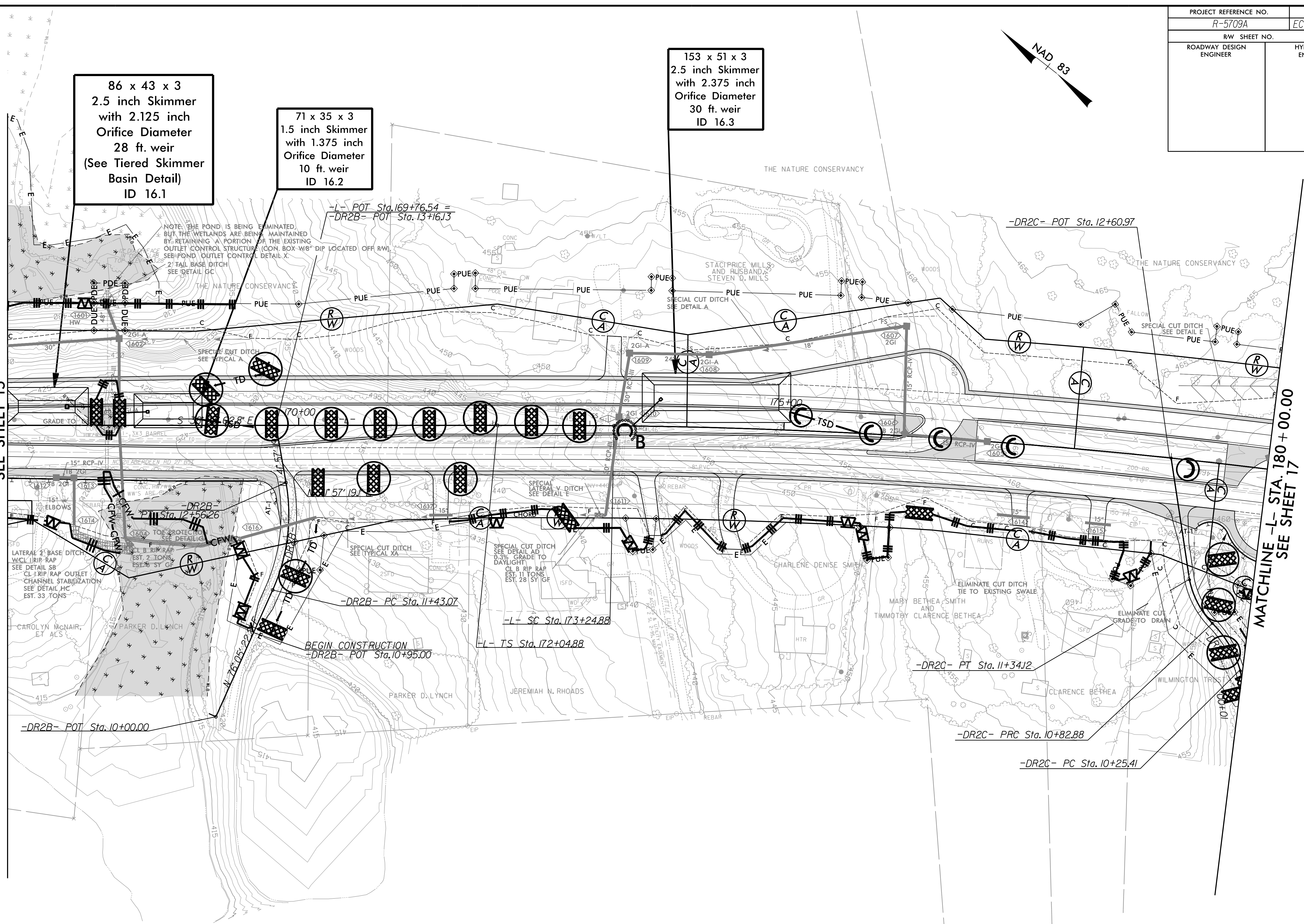
86 x 43 x 3  
2.5 inch Skimmer  
with 2.125 inch  
Orifice Diameter  
28 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 16.1

71 x 35 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
10 ft. weir  
ID 16.2

153 x 51 x 3  
2.5 inch Skimmer  
with 2.375 inch  
Orifice Diameter  
30 ft. weir  
ID 16.3

MATCHLINE -L- STA. 167 + 00.00  
SEE SHEET 15

MATCHLINE -L- STA. 180 + 00.00  
SEE SHEET 17



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 16

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

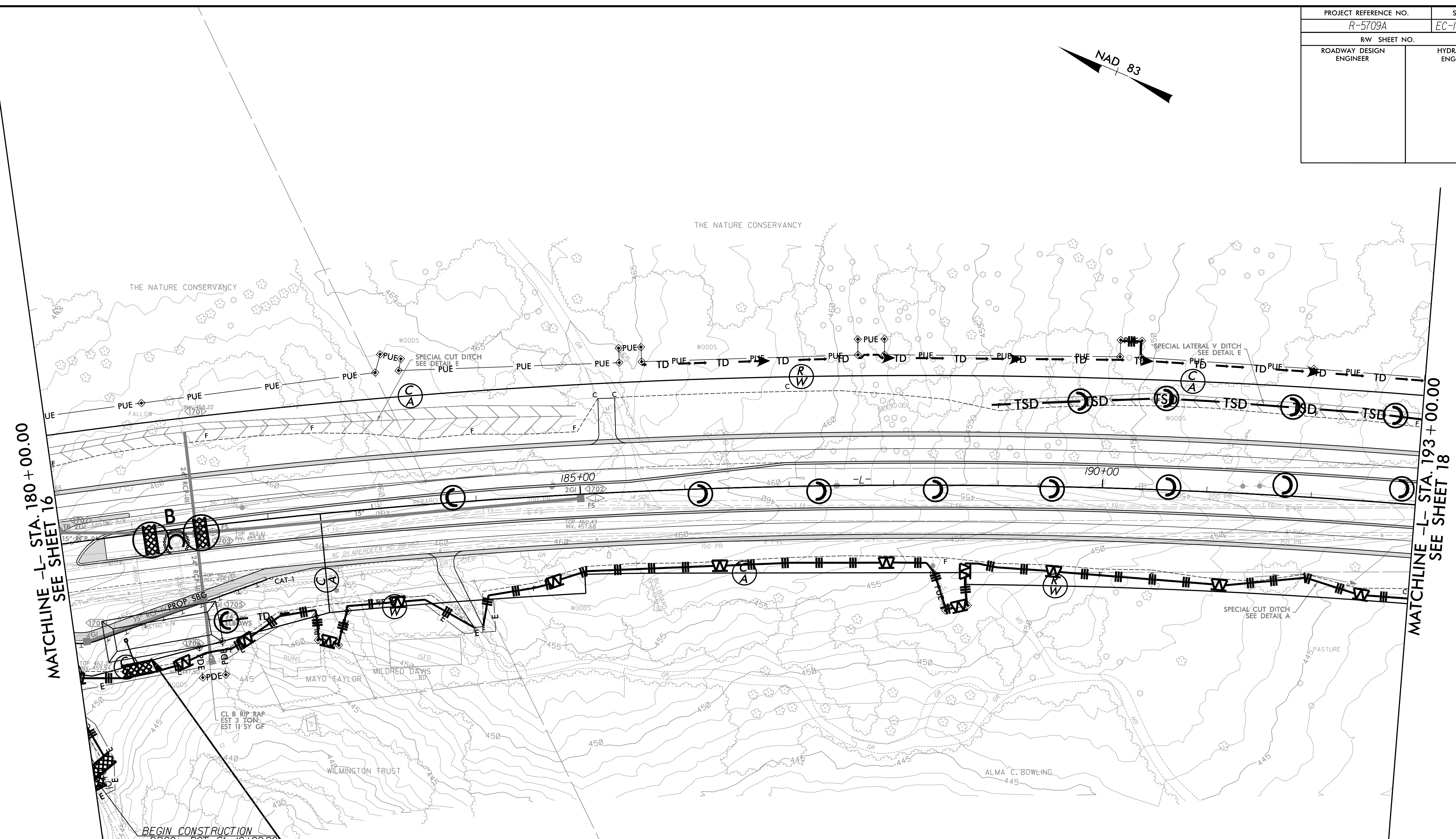
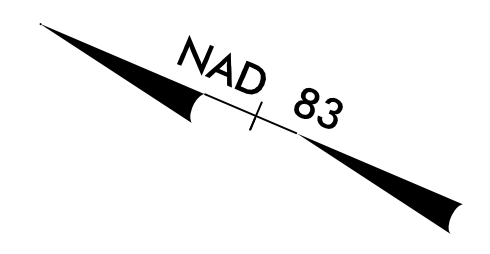
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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-17/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 180 + 00.00  
SEE SHEET 16

MATCHLINE -L- STA. 193 + 00.00  
SEE SHEET 18

BEGIN CONSTRUCTION  
-DR2C- POT Sta.10+00.00

111 x 40 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
17 ft. weir  
ID 17.1

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 17

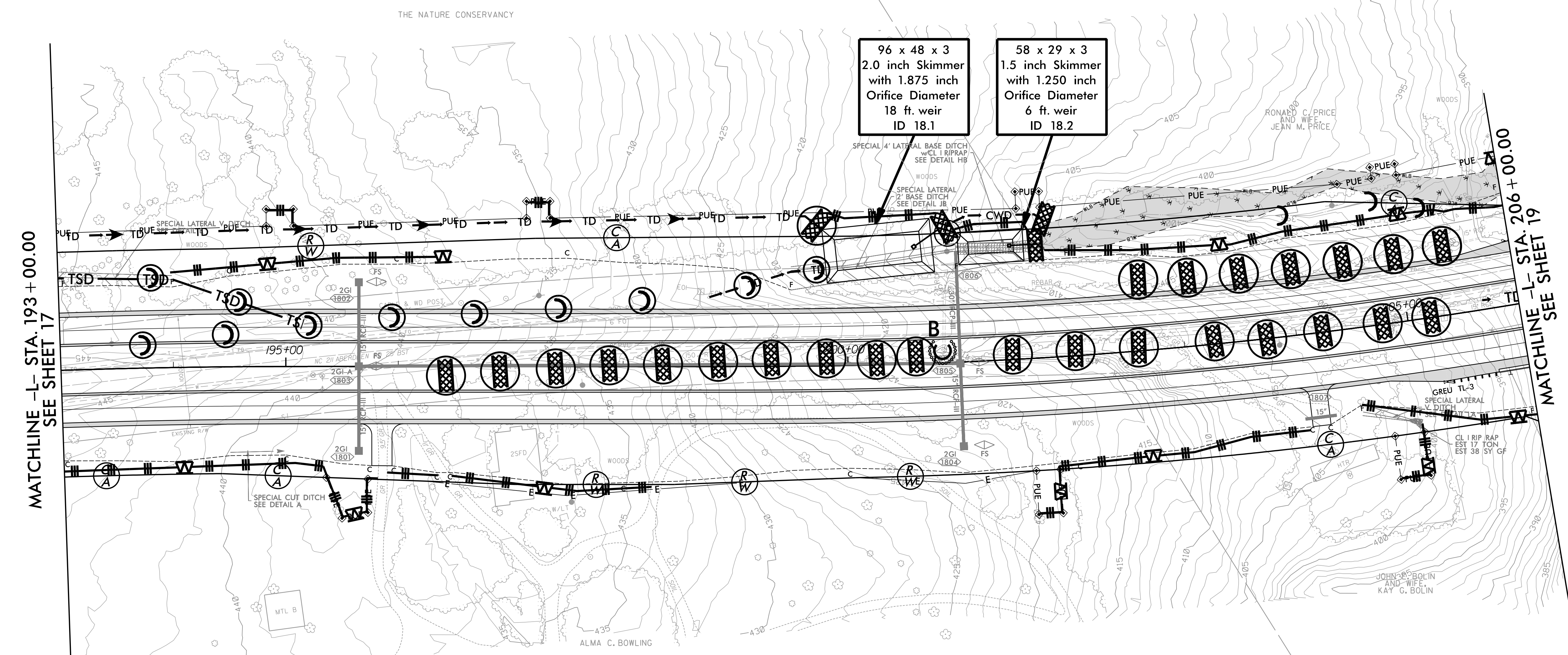
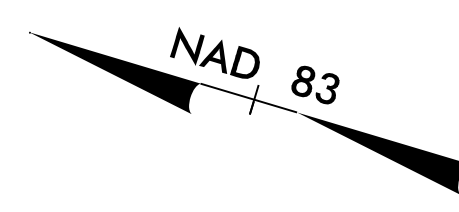
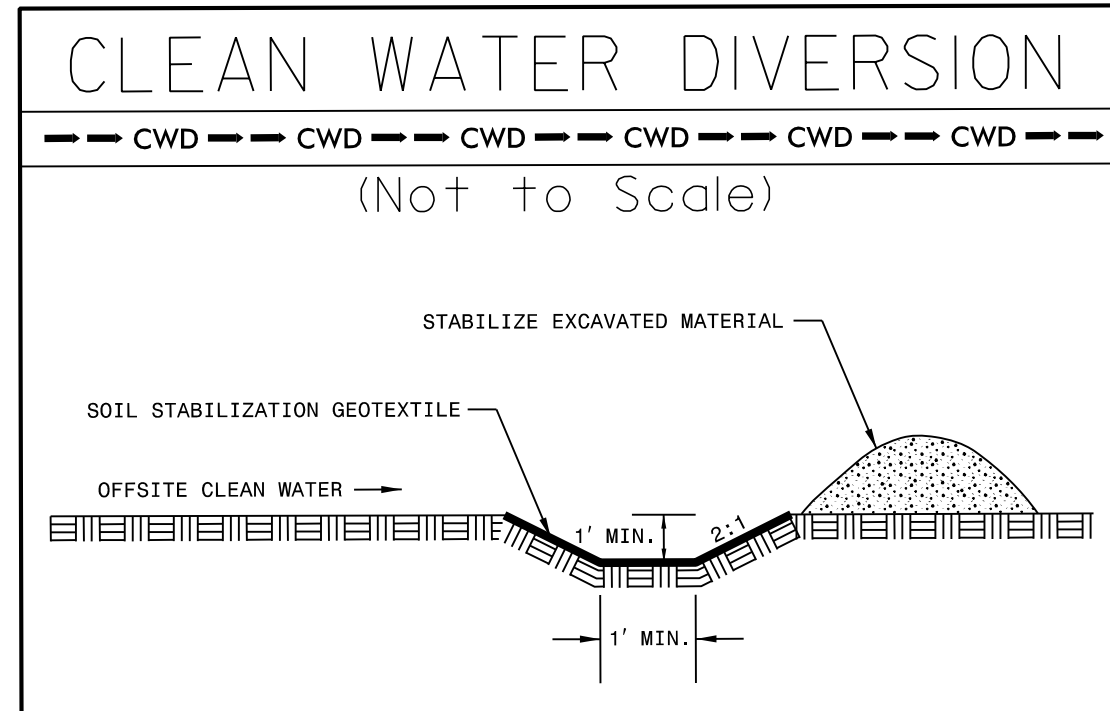
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-18/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 193 + 00.00  
SEE SHEET 17

MATCHLINE -L- STA. 206 + 00.00  
SEE SHEET 19

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 18

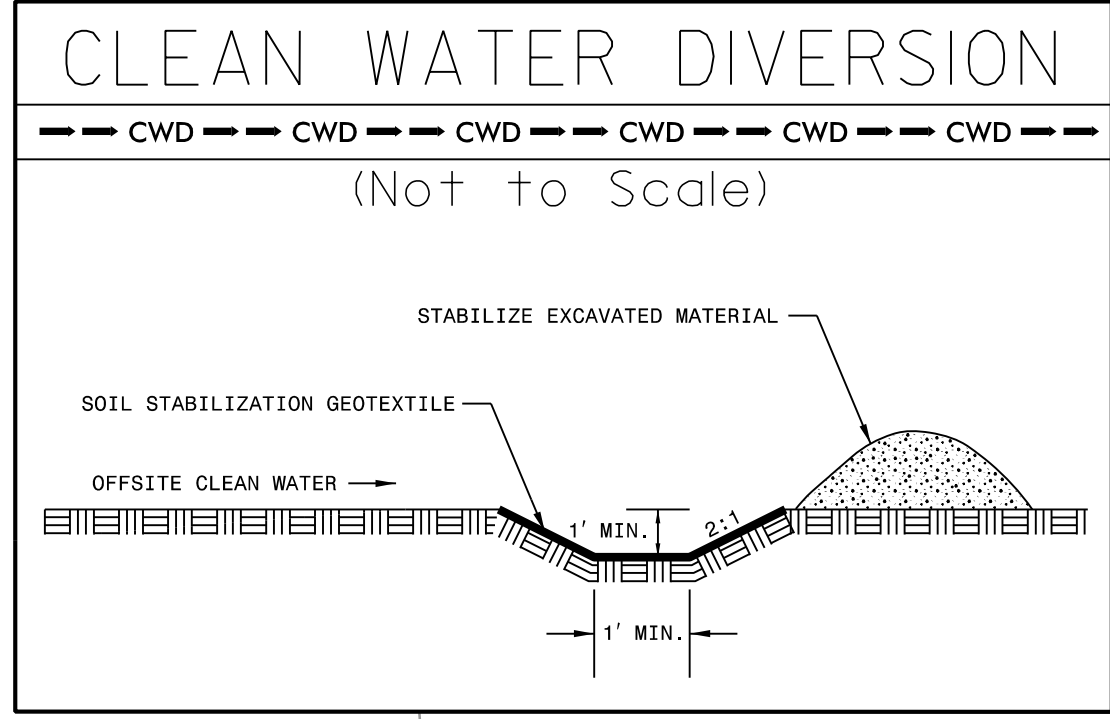
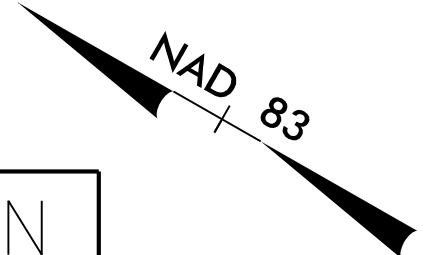
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

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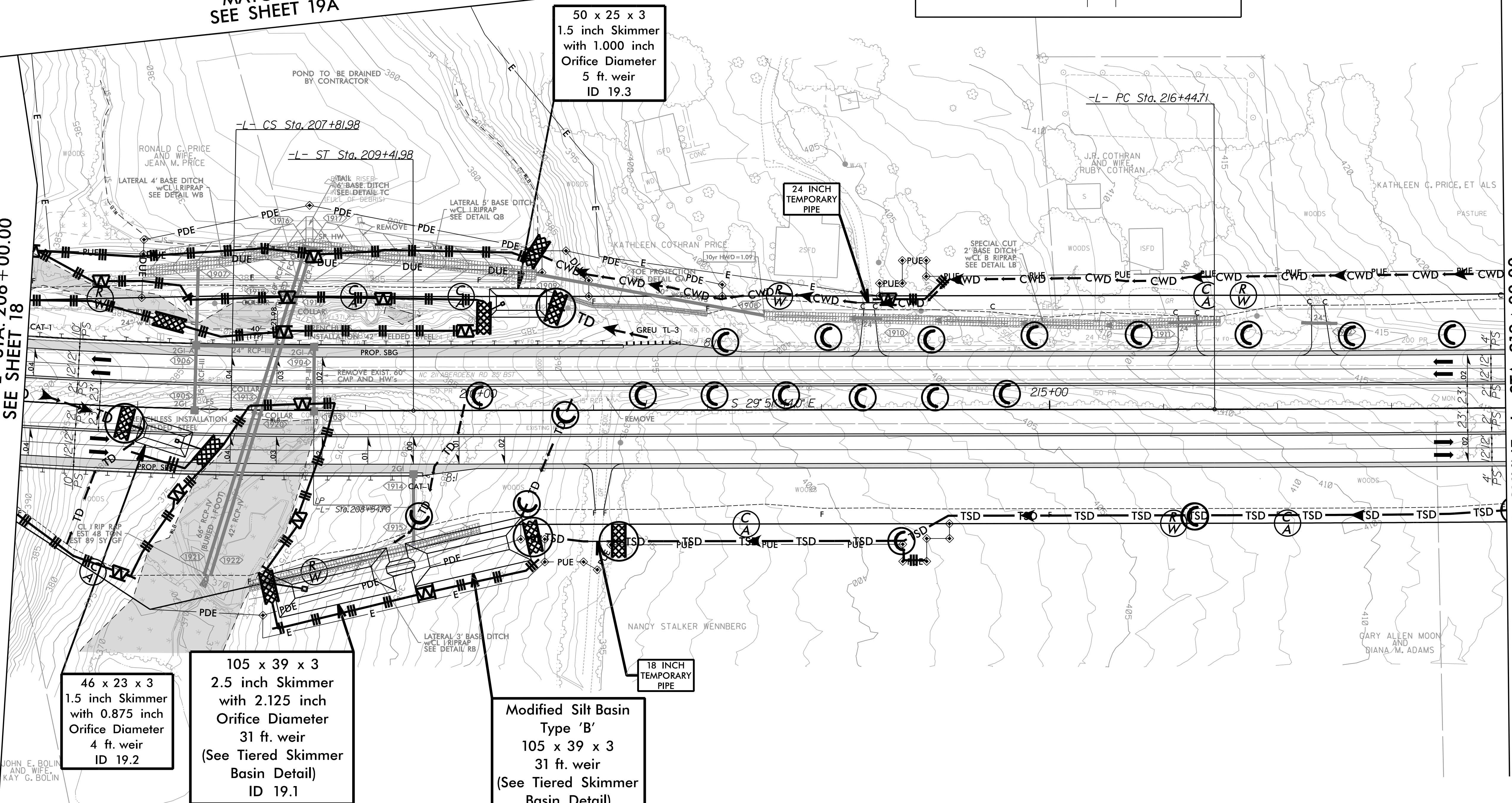
PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-19/CONST.19
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCHLINE  
SEE SHEET 19A

MATCHLINE -L- STA. 206 + 00.00  
SEE SHEET 18

MATCHLINE -L- STA. 219 + 00.00  
SEE SHEET 20



50 x 25 x 3  
1.5 inch Skimmer  
with 1.000 inch  
Orifice Diameter  
5 ft. weir  
ID 19.3

24 INCH  
TEMPORARY  
PIPE

46 x 23 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 19.2

105 x 39 x 3  
2.5 inch Skimmer  
with 2.125 inch  
Orifice Diameter  
31 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 19.1

Modified Silt Basin  
Type 'B'  
105 x 39 x 3  
31 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 19.1

18 INCH  
TEMPORARY  
PIPE

SETH JONES, EI  
LEVEL III NAME

4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 19

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

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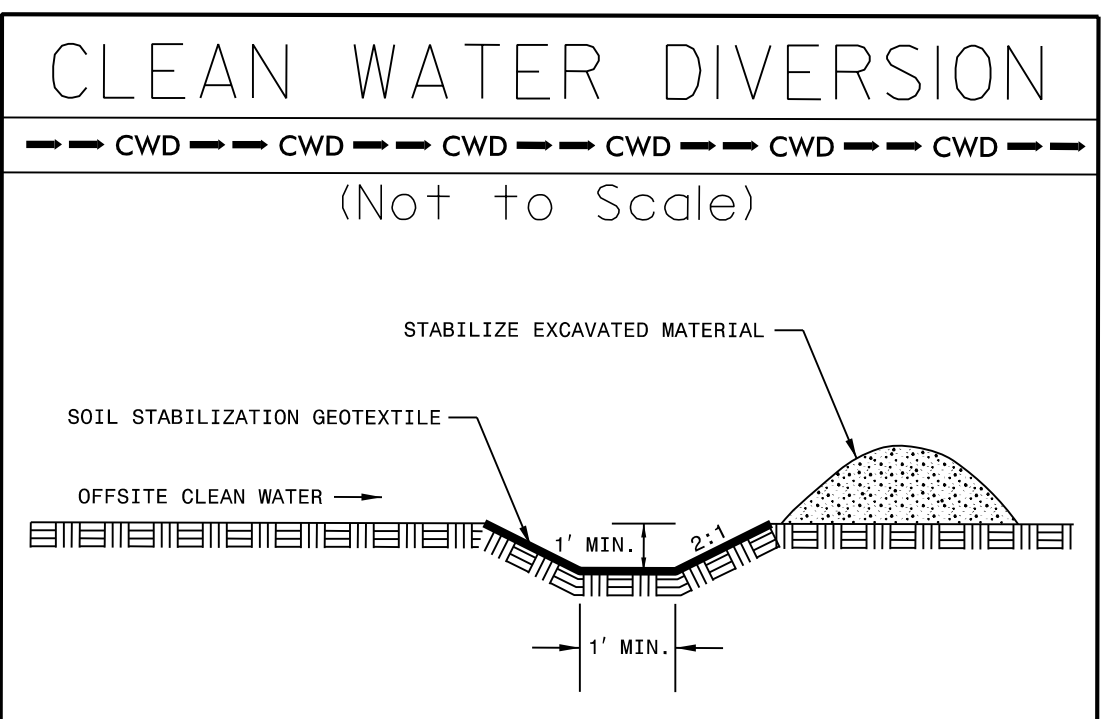
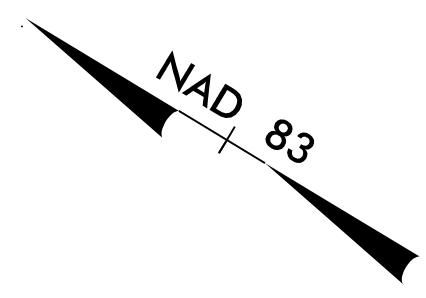
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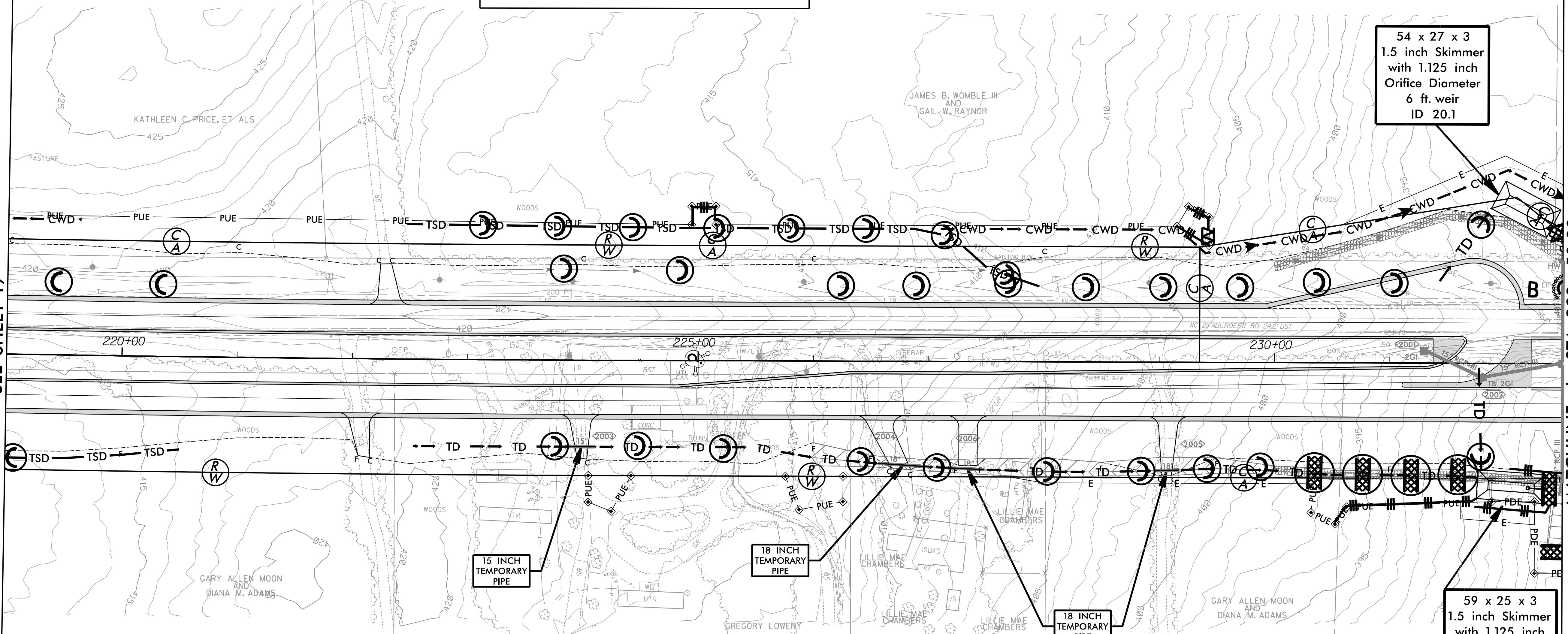


PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-20/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 219 + 00.00  
SEE SHEET 19

MATCHLINE -L- STA. 232 + 50.00  
SEE SHEET 21



54 x 27 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
6 ft. weir  
ID 20.1

15 INCH  
TEMPORARY  
PIPE

18 INCH  
TEMPORARY  
PIPE

18 INCH  
TEMPORARY  
PIPE

59 x 25 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
6 ft. weir  
ID 20.2

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 20

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

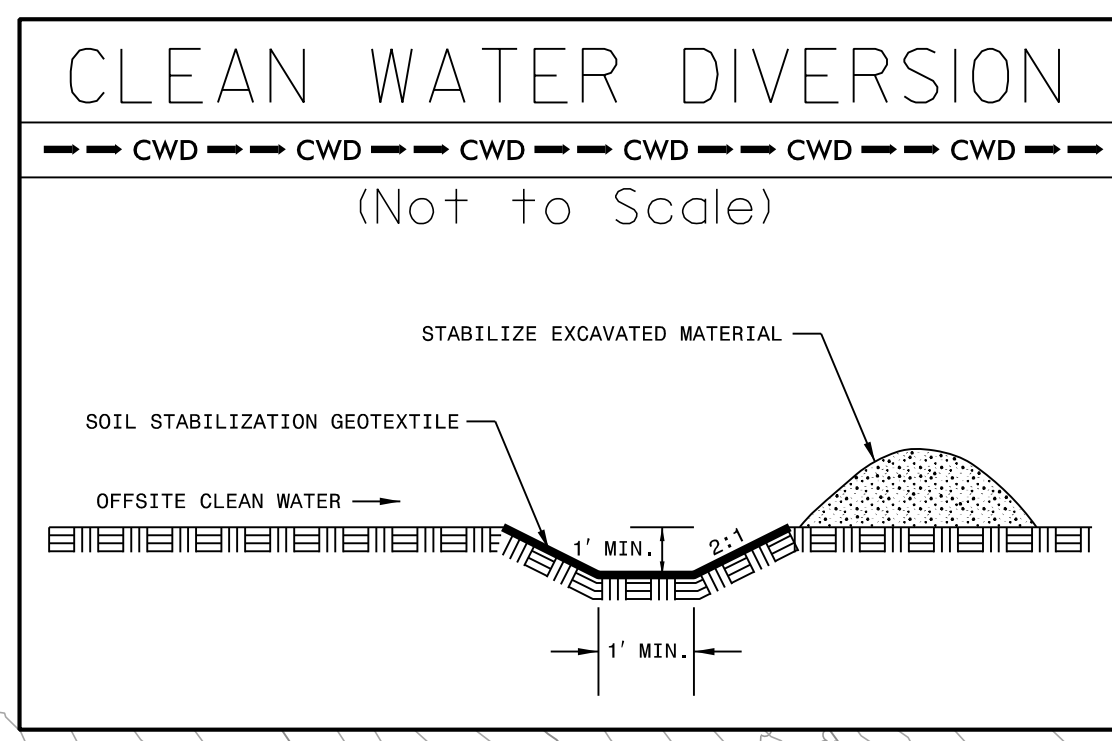
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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-21/CONST.21
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

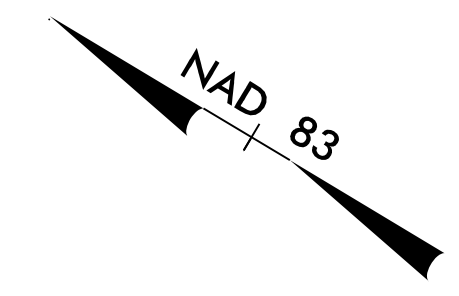
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



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

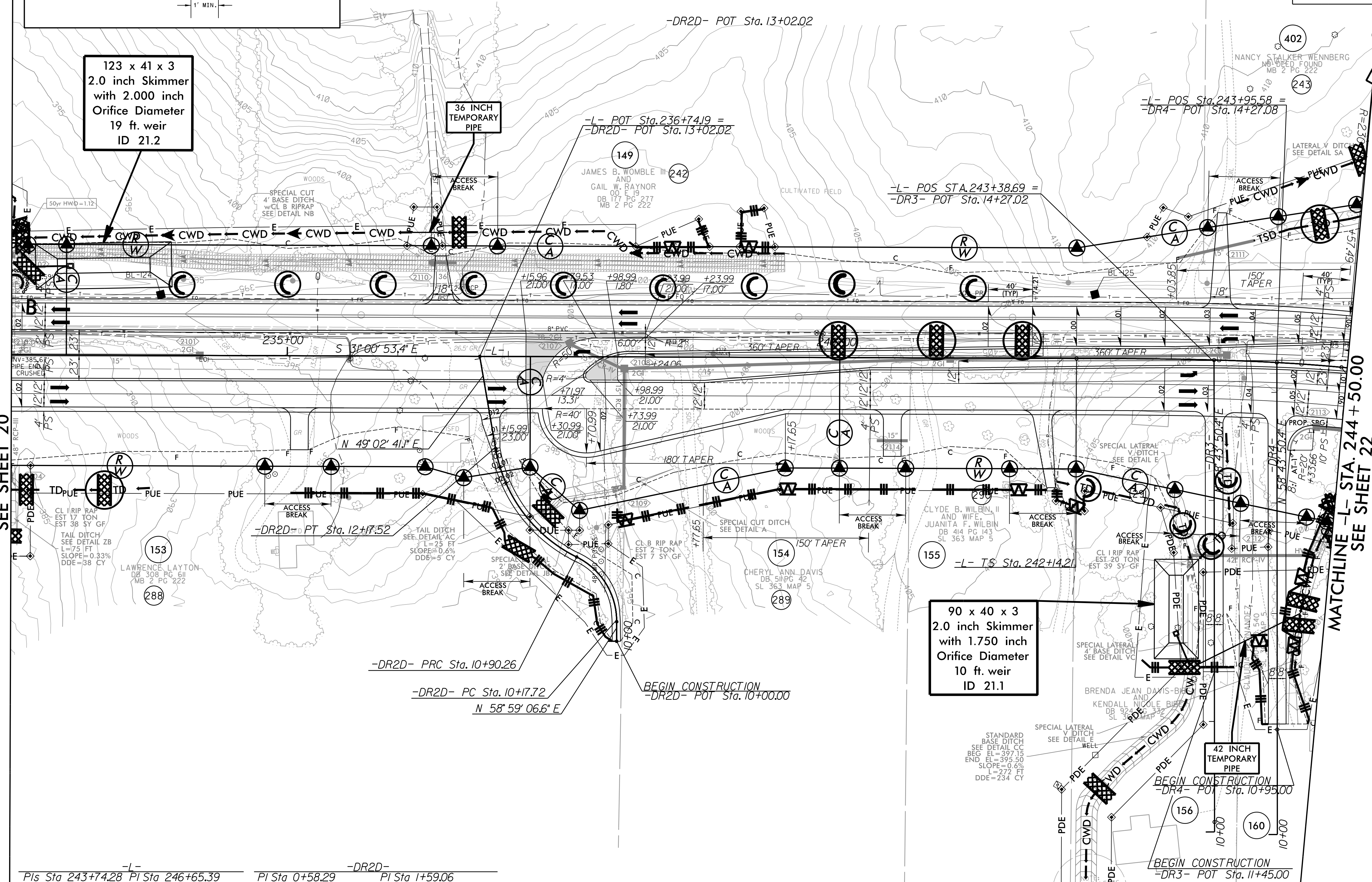
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21

SETH JONES, EI  
LEVEL III NAME  
4183  
LEVEL III CERTIFICATION NO.



MATCHLINE -L- STA. 232 + 50.00  
SEE SHEET 20

MATCHLINE -L- STA. 244 + 50.00  
SEE SHEET 22



-L-		-DR2D-	
PI Sta 243+74.28	PI Sta 246+65.39	PI Sta 0+58.29	PI Sta 1+59.06
Os = 5' 10' 10.4"	Δ = 18' 02' 39.9" (RT)	Δ = 63' 56' 53.0" (LT)	Δ = 54' 00' 27.5" (RT)
Ls = 240.00'	D = 4' 18' 28.6"	D = 88' 08' 50.5"	D = 42' 26' 28.7"
LT = 160.07'	L = 418.86'	L = 72.55'	L = 127.25'
ST = 80.06'	T = 211.18'	T = 40.58'	T = 68.80'
	R = 1,330.00'	R = 65.00'	R = 135.00'
	SE = 0.06		
	V = 60 mph		

8/17/1995  
7/23/2021  
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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-22/CONST.22
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCHLINE -Y9A- STA. 15+00.00  
SEE SHEET 67

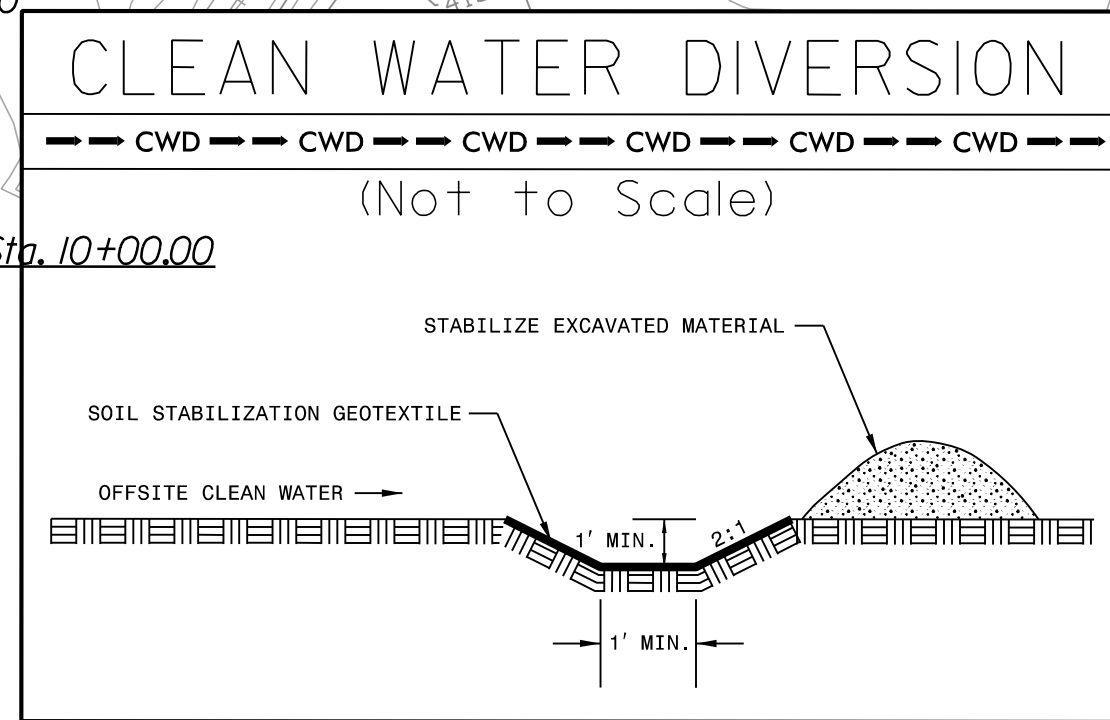
MATCHLINE -Y9B-  
STA. 15+00.00  
SEE SHEET 69

100 x 37 x 3  
2 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
10 ft. weir  
ID 22.3

15 INCH  
TEMPORARY  
PIPE

72 x 36 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
10 ft. weir  
ID 22.2

109 x 54 x 3  
2.5 inch Skimmer  
with 2.125 inch  
Orifice Diameter  
22 ft. weir  
ID 22.1



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 22

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

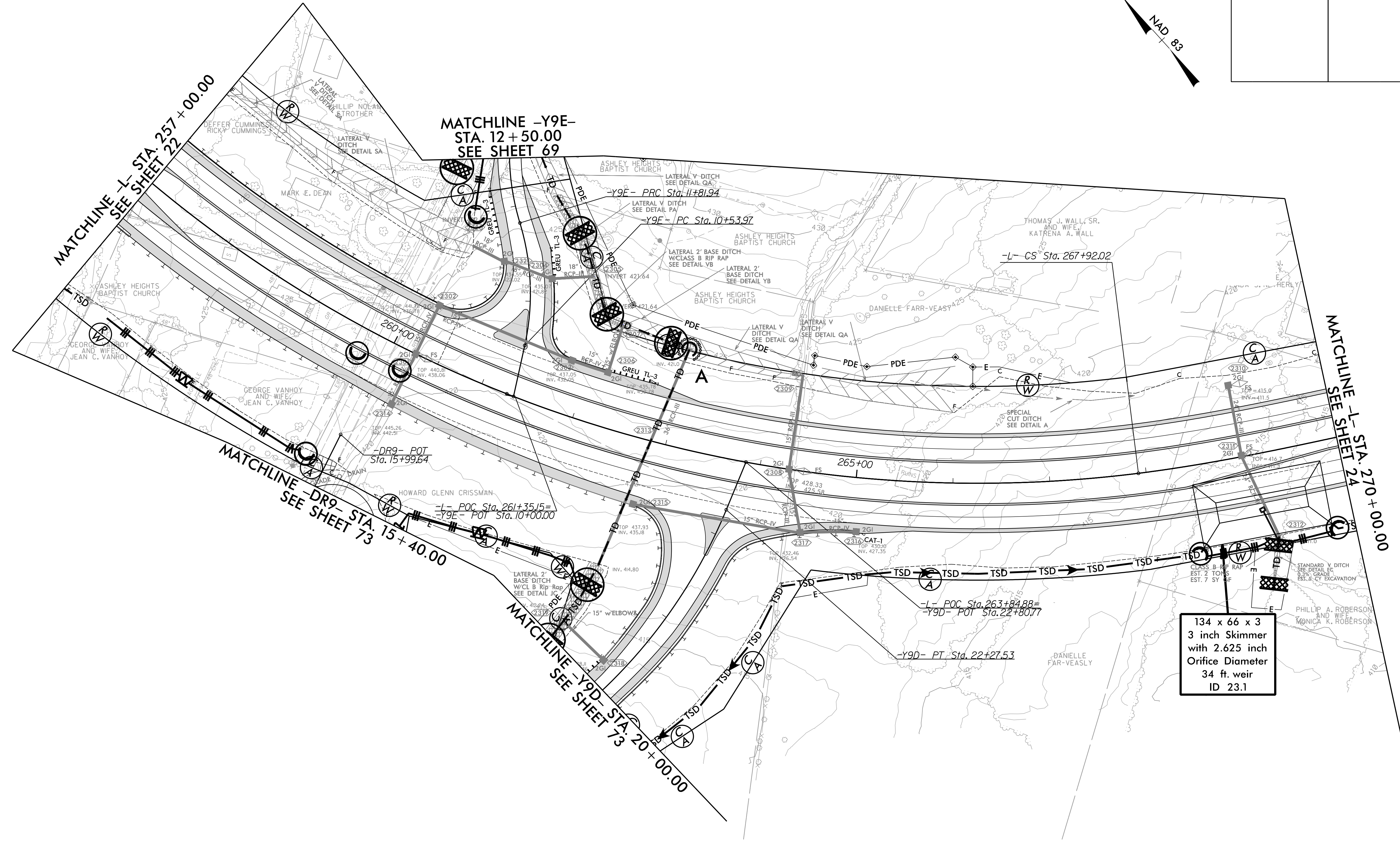
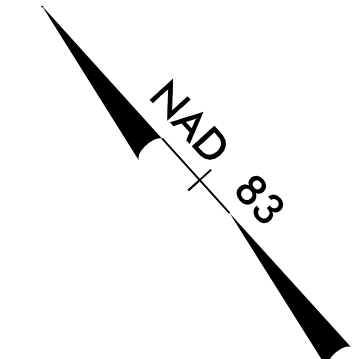
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PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-23/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



134 x 66 x 3  
3 inch Skimmer  
with 2.625 inch  
Orifice Diameter  
34 ft. weir  
ID 23.1

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 23

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

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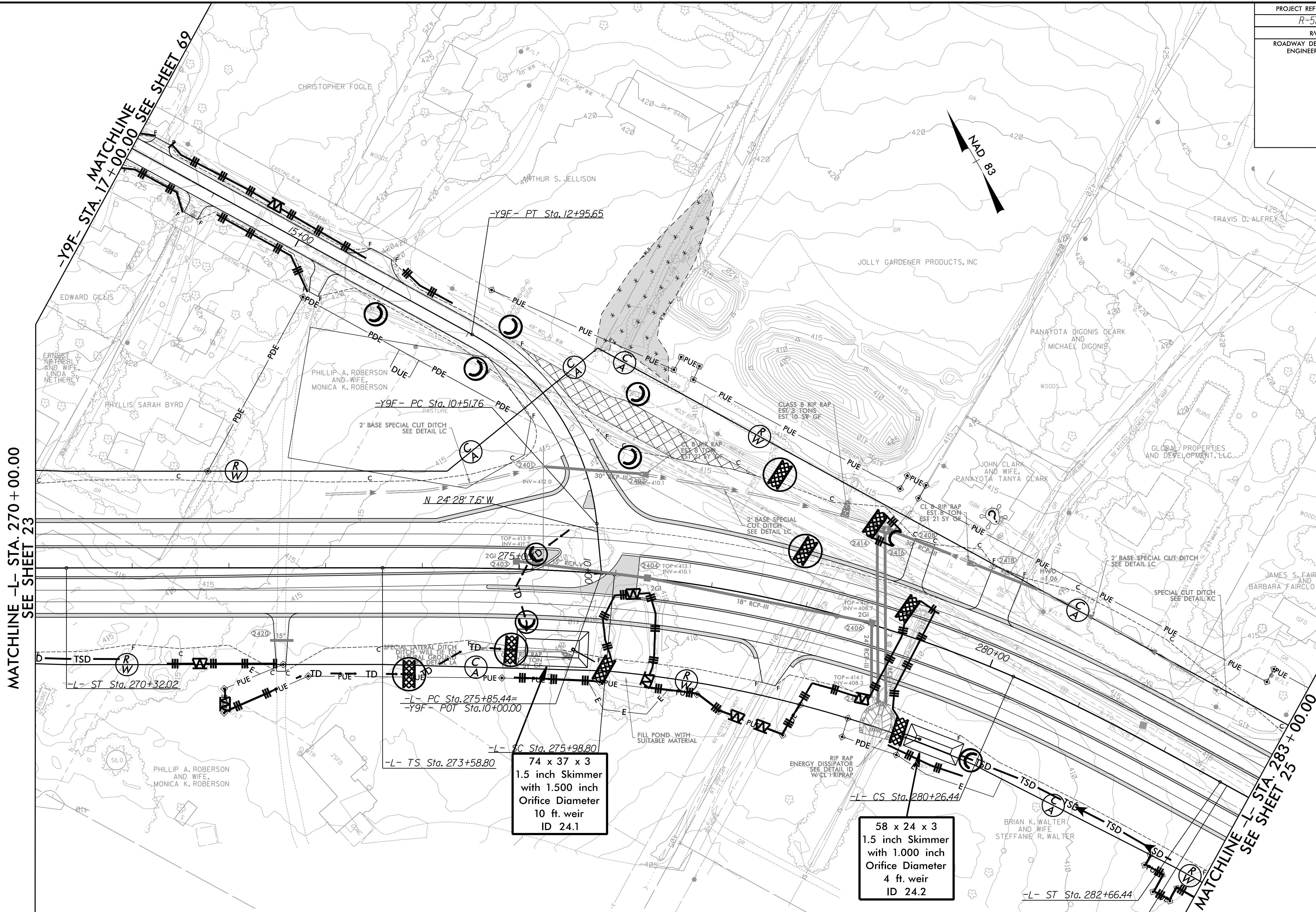
7/23/2021  
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PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-24/CONST.24
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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MATCHLINE -L- STA. 270 + 00.00  
SEE SHEET 23

-Y9F- STA. 17 + 00.00  
SEE SHEET 69

MATCHLINE -L- STA. 283 + 00.00  
SEE SHEET 25

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

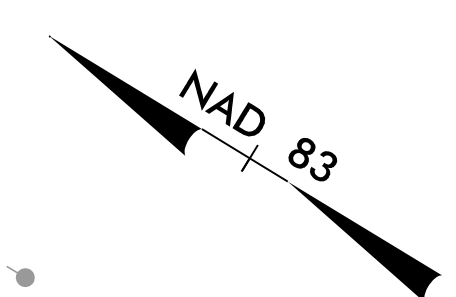
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 24

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

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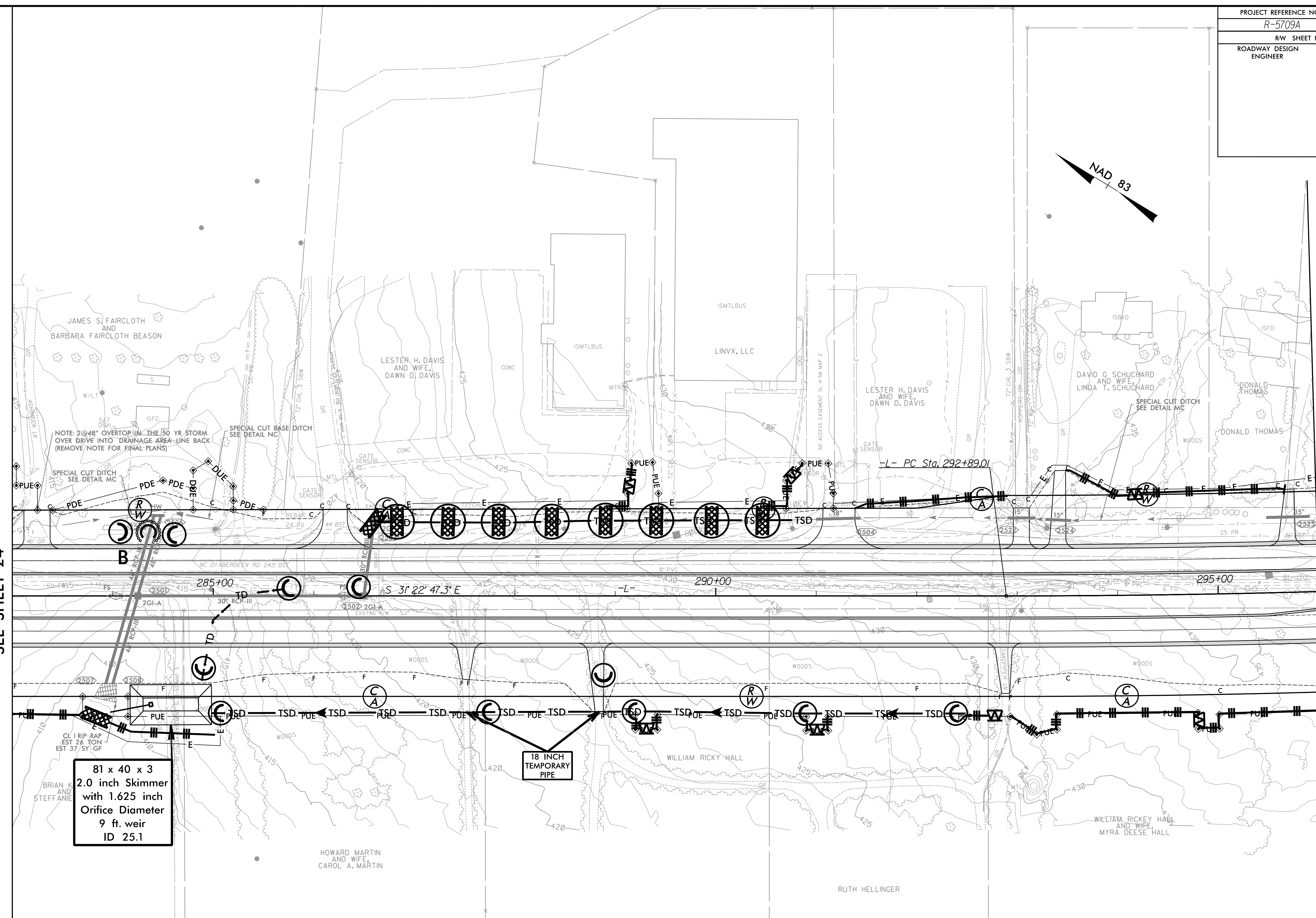


PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-25/CONST.25
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 283 + 00.00  
SEE SHEET 24

MATCHLINE -L- STA. 296 + 00.00  
SEE SHEET 26



81 x 40 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
9 ft. weir  
ID 25.1

18 INCH  
TEMPORARY  
PIPE

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 25

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

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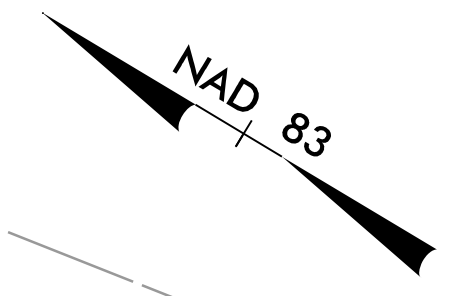
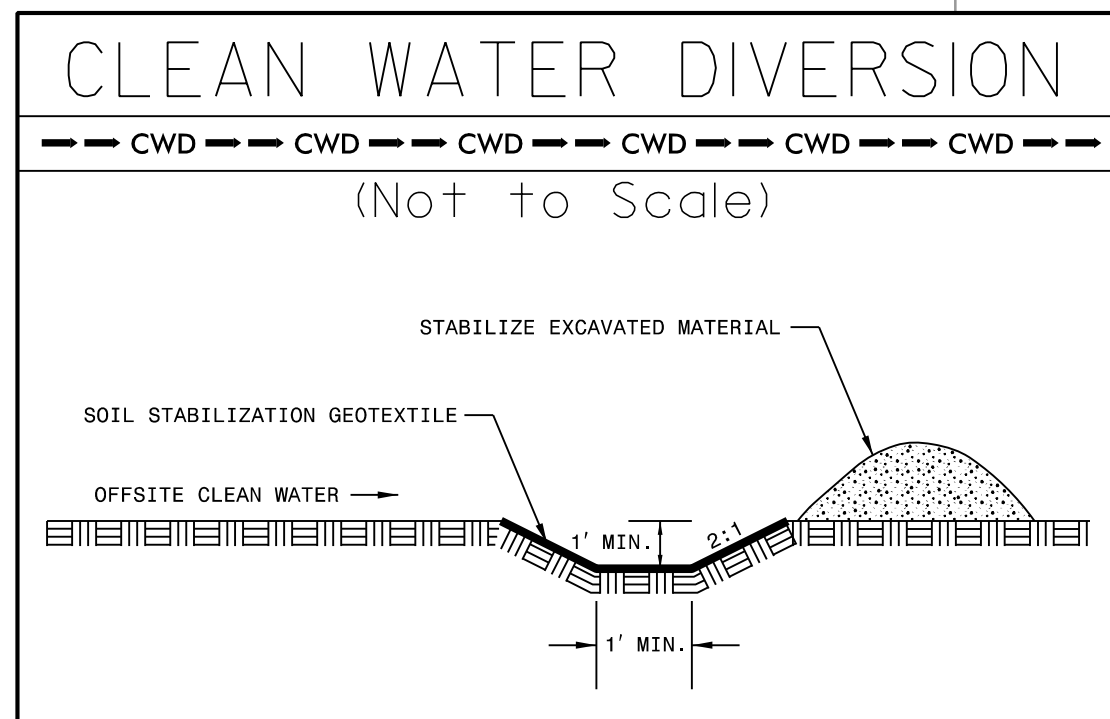
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7/23/2021  
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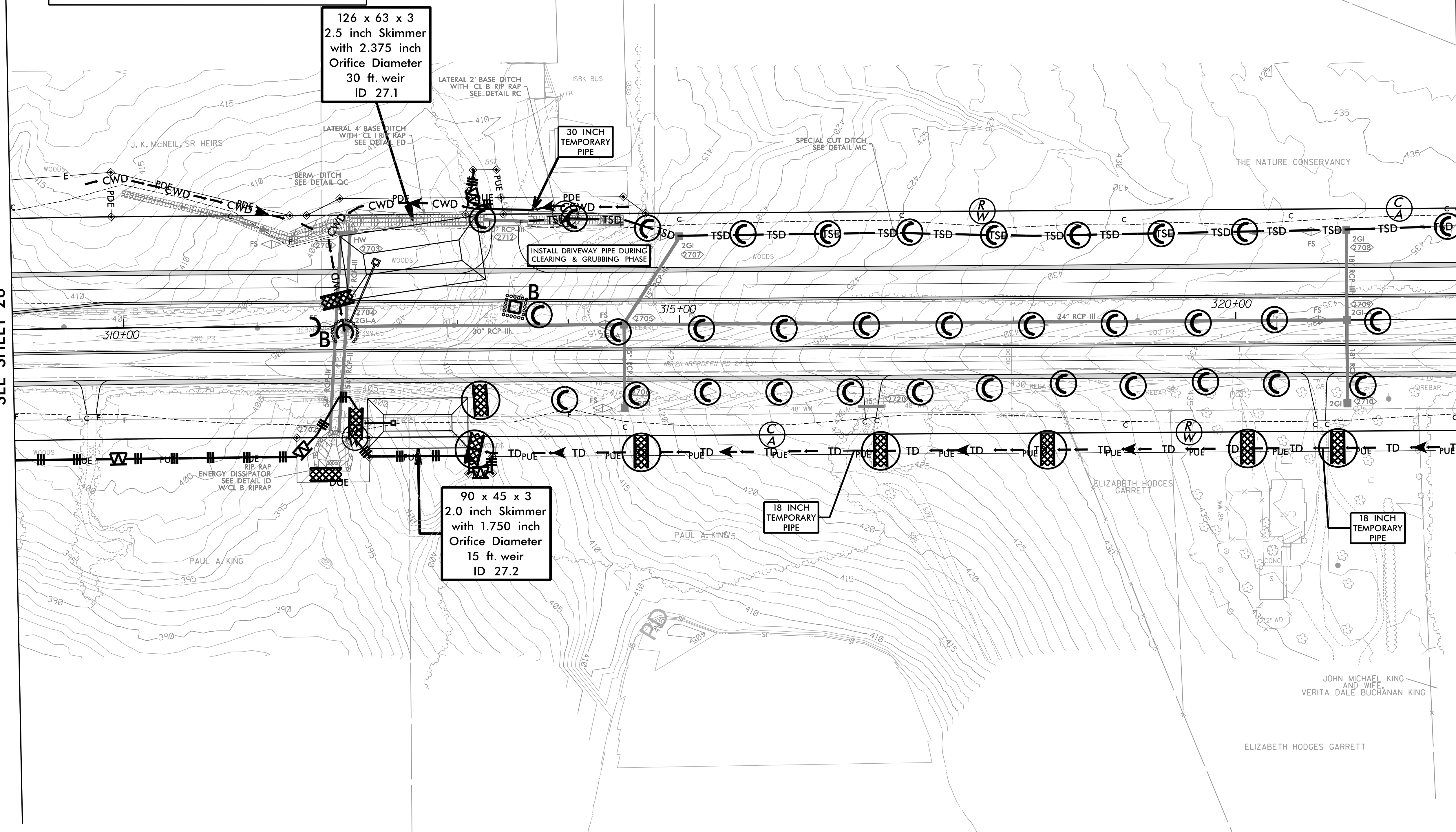


PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-27/CONST.27
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCHLINE -L- STA. 309 + 00.00  
SEE SHEET 26

MATCHLINE -L- STA. 322 + 00.00  
SEE SHEET 28



COMMERCIAL MANAGEMENT, LLC

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 27

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

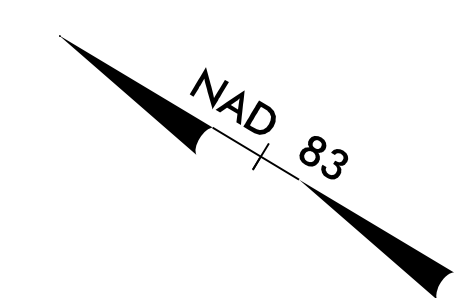
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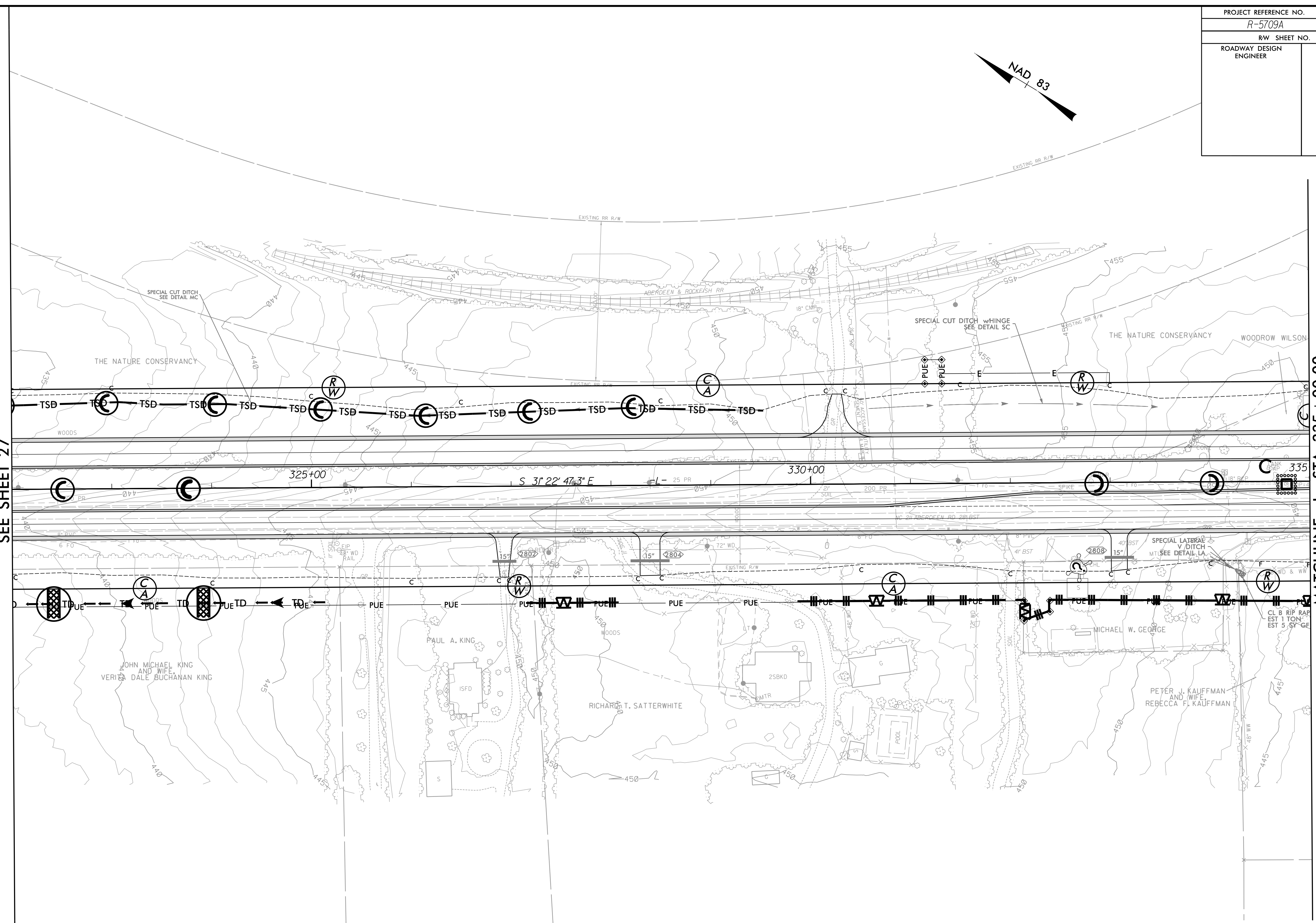


PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-28/CONST.28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE - L- STA. 322 + 00.00  
SEE SHEET 27

MATCHLINE - L- STA. 335 + 00.00  
SEE SHEET 29



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 28

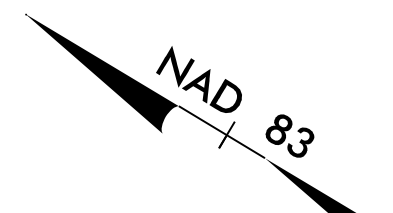
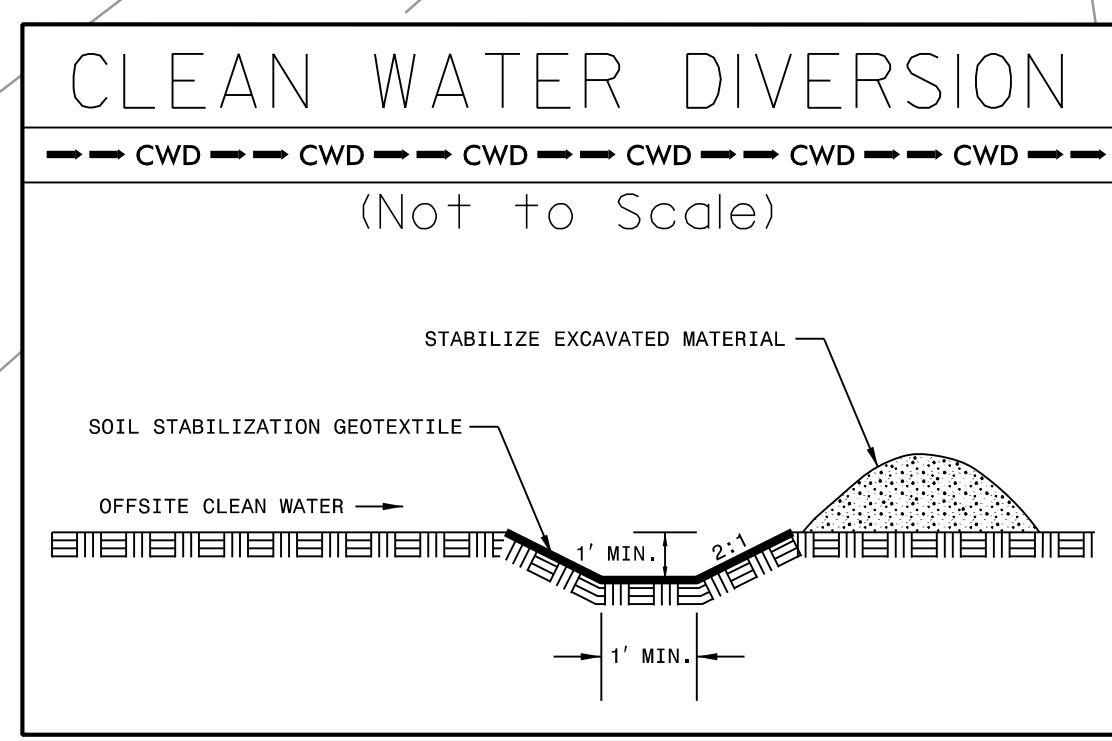
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-29/CONST.29
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



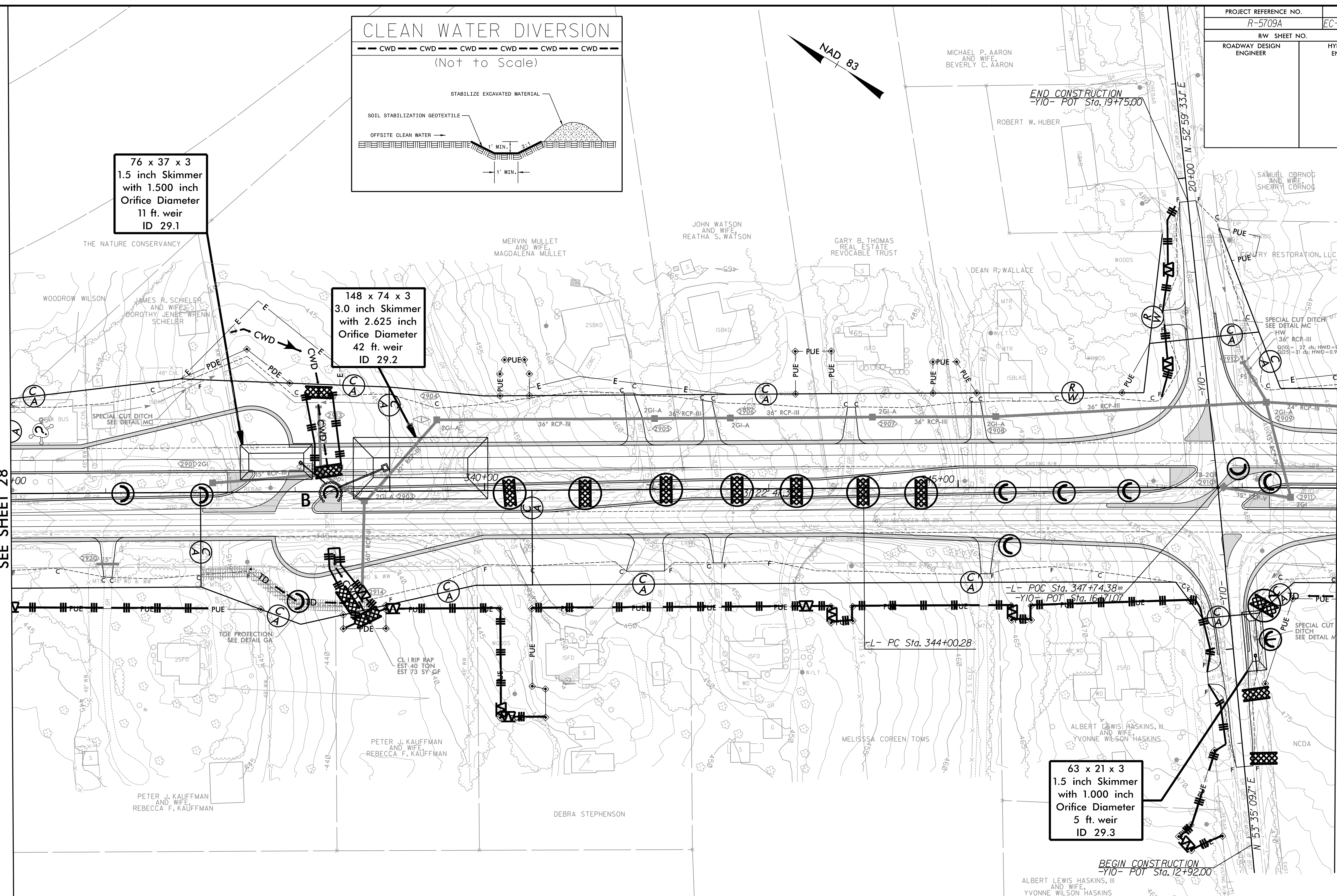
76 x 37 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
11 ft. weir  
ID 29.1

148 x 74 x 3  
3.0 inch Skimmer  
with 2.625 inch  
Orifice Diameter  
42 ft. weir  
ID 29.2

63 x 21 x 3  
1.5 inch Skimmer  
with 1.000 inch  
Orifice Diameter  
5 ft. weir  
ID 29.3

MATCHLINE -L- STA. 335+00.00  
SEE SHEET 28

MATCHLINE -L- STA. 349+00.00  
SEE SHEET 30



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 29

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

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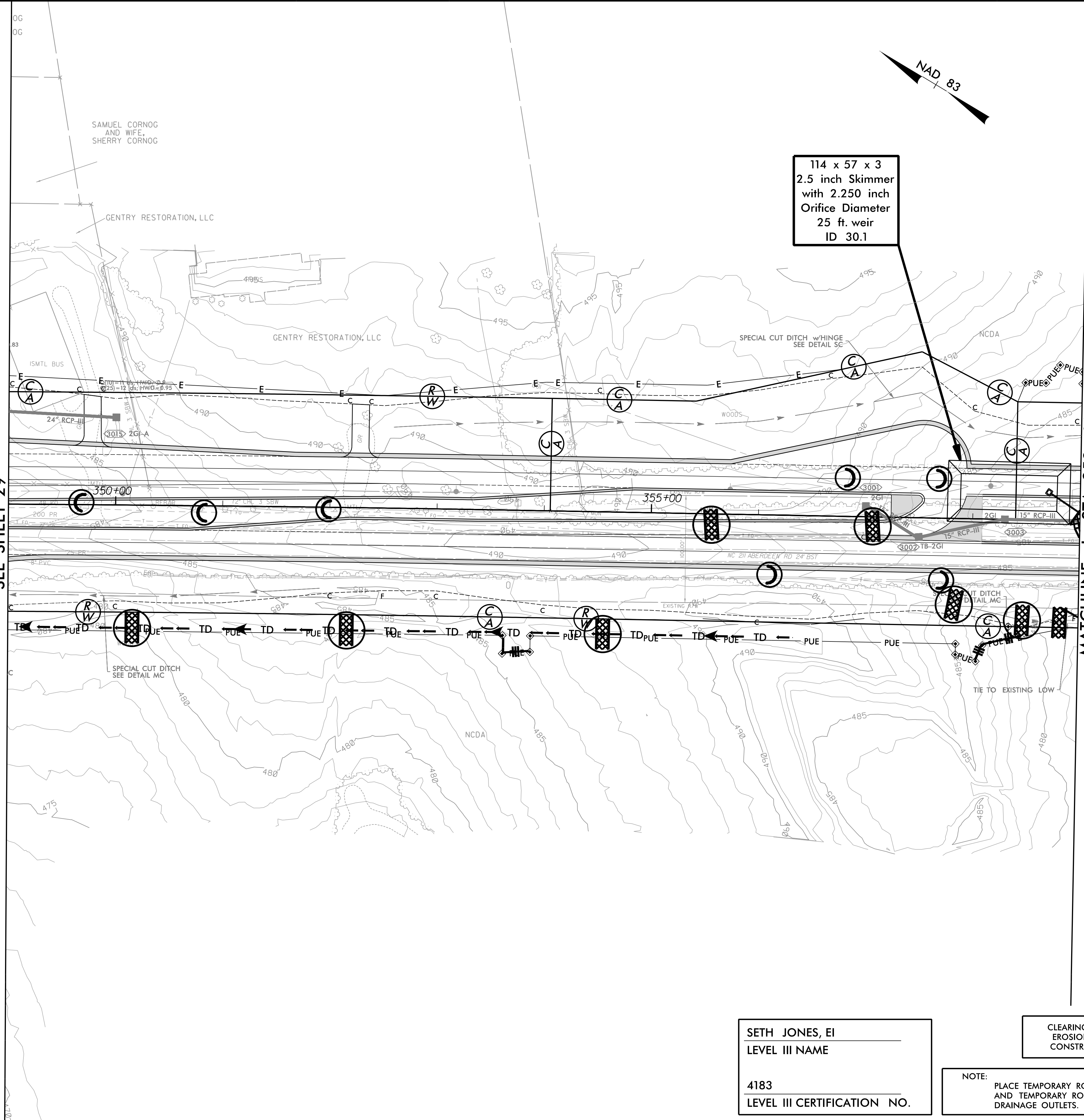
PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-30/CONST.30
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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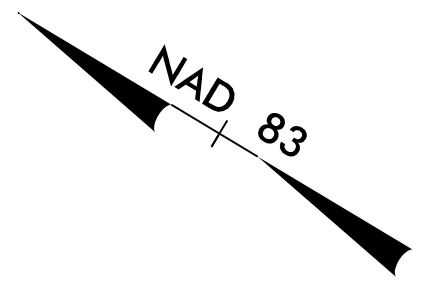
7/21/2021 R:\Hydraulics\CADD\PSH\EC - Early Start C&G\Section 1\RS709A\_EC\_ESCG\_psh30.dgn

MATCHLINE -L- STA. 349 + 00.00  
SEE SHEET 29

MATCHLINE -L- STA. 359 + 00.00  
SEE SHEET 31



114 x 57 x 3  
2.5 inch Skimmer  
with 2.250 inch  
Orifice Diameter  
25 ft. weir  
ID 30.1



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

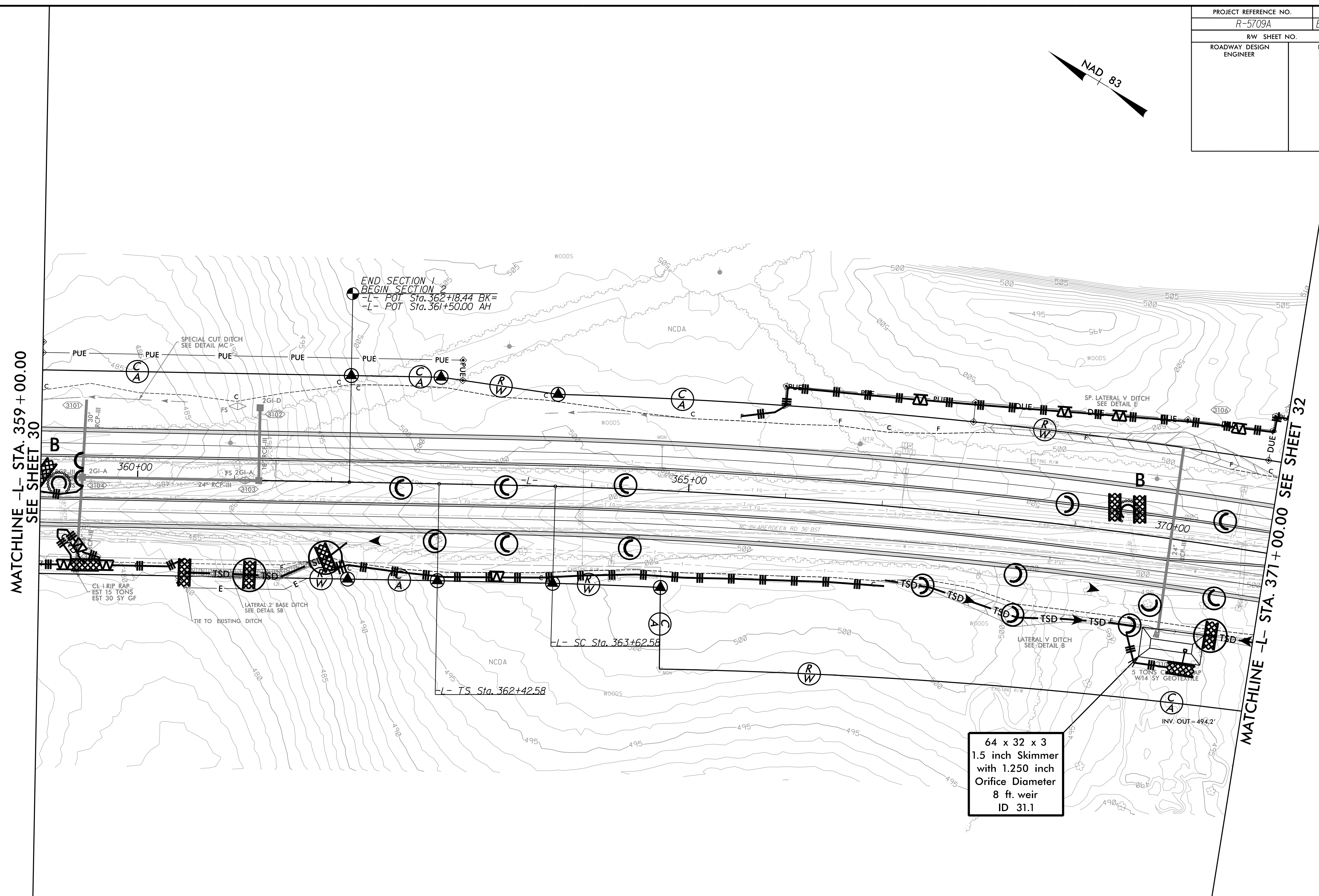
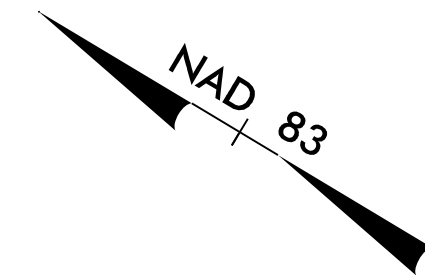
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 30

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

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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-31/CONST. 31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



64 x 32 x 3  
1.5 inch Skimmer  
with 1.250 inch  
Orifice Diameter  
8 ft. weir  
ID 31.1

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 31

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

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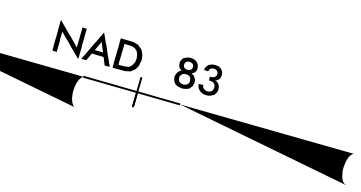
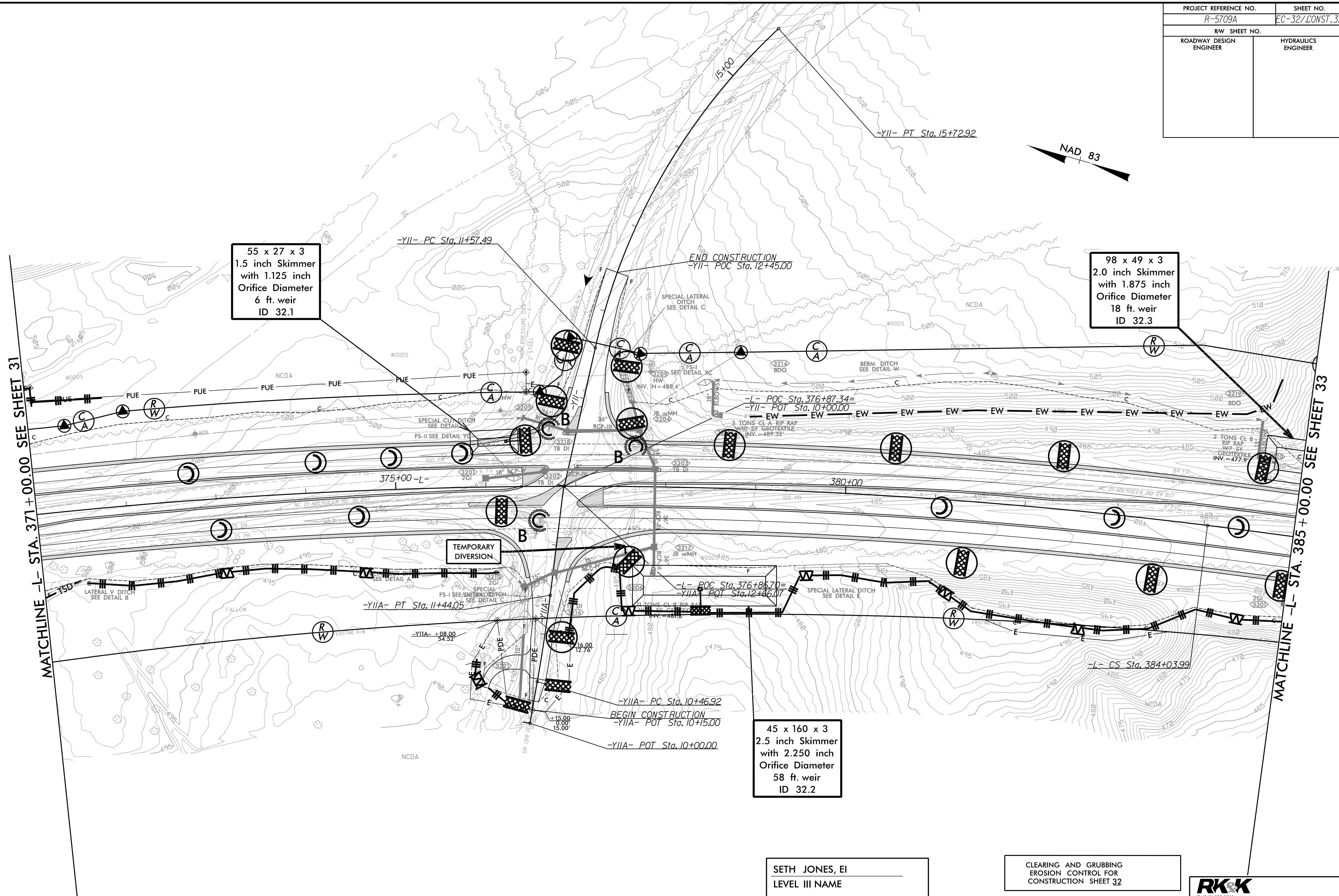
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PROJECT REFERENCE NO. R-5709A		SHEET NO. EC-32/CONST.32	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCHLINE -L- STA. 371+00.00 SEE SHEET 31

MATCHLINE -L- STA. 385+00.00 SEE SHEET 33

55 x 27 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
6 ft. weir  
ID 32.1

98 x 49 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
18 ft. weir  
ID 32.3

45 x 160 x 3  
2.5 inch Skimmer  
with 2.250 inch  
Orifice Diameter  
58 ft. weir  
ID 32.2

TEMPORARY DIVERSION

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

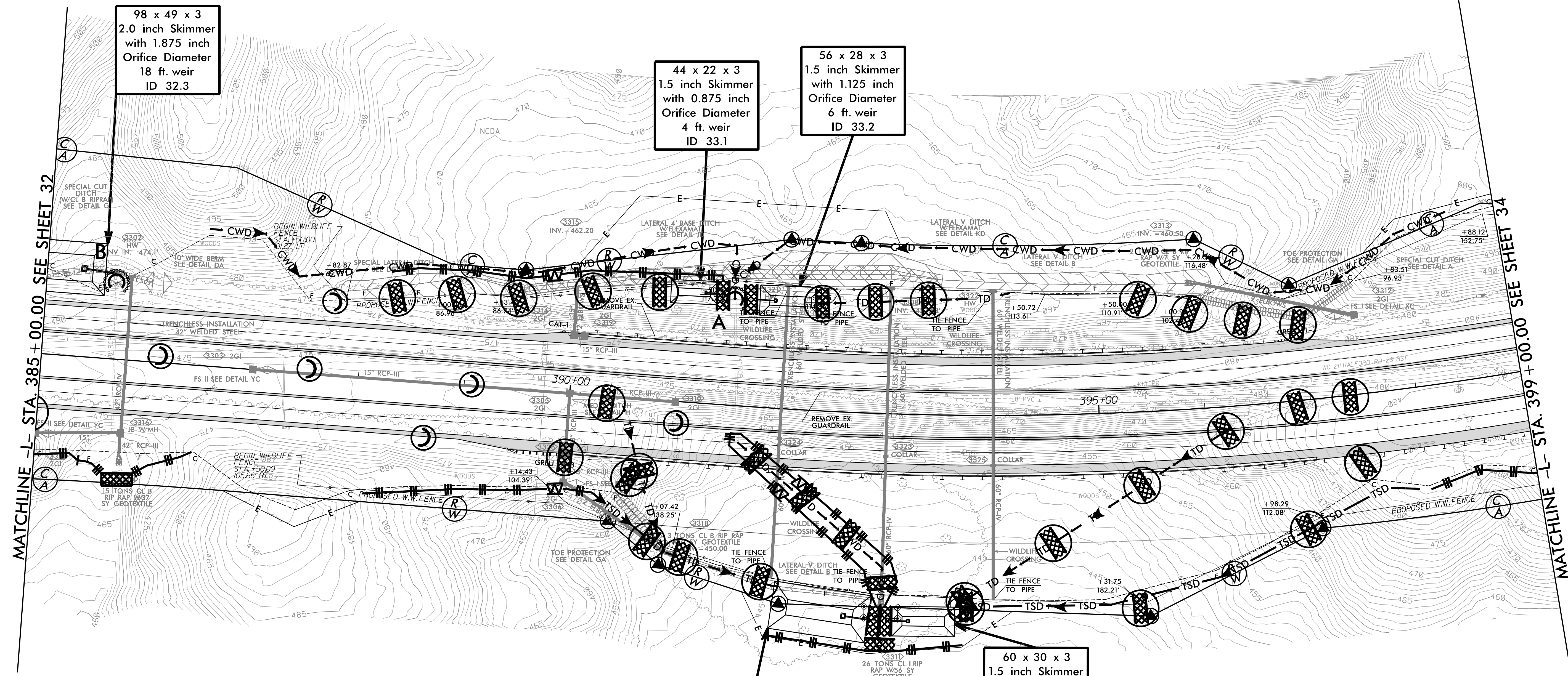
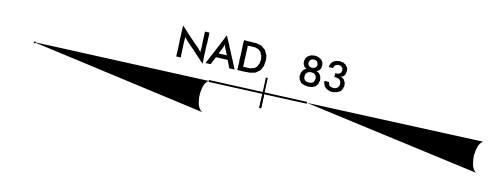
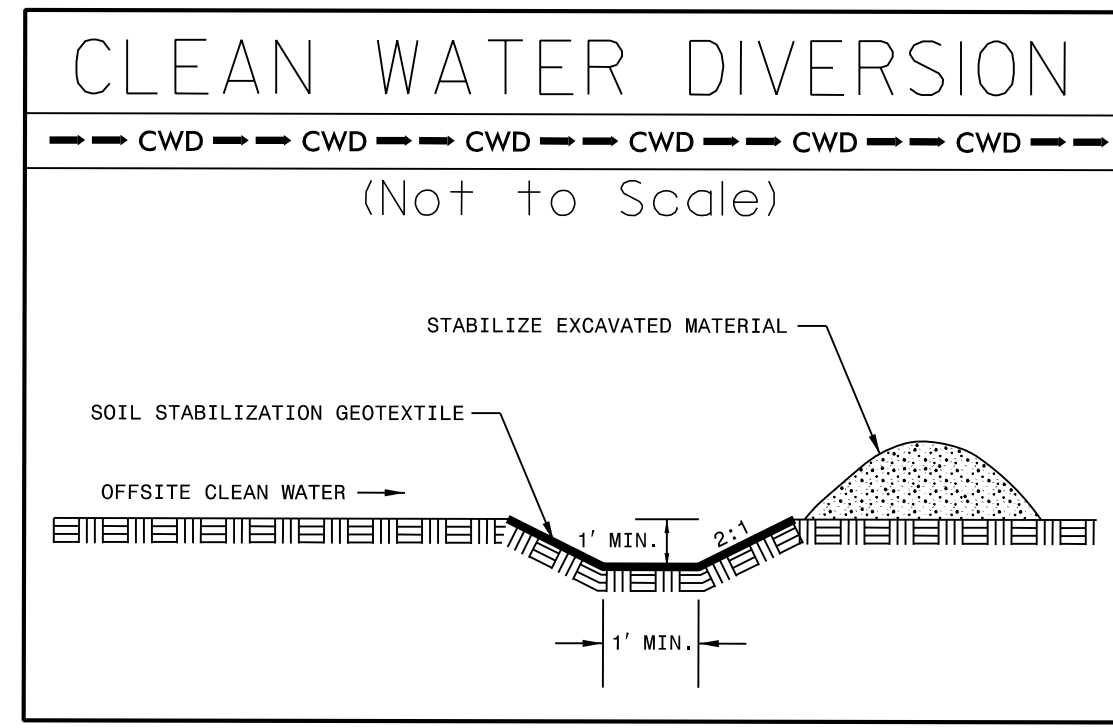
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 32

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

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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-33/CONST.33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE - L- STA 385+00.00 SEE SHEET 32

MATCHLINE - L- STA 399+00.00 SEE SHEET 34

98 x 49 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
18 ft. weir  
ID 32.3

44 x 22 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 33.1

56 x 28 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
6 ft. weir  
ID 33.2

92 x 45 x 3  
2 inch Skimmer  
with 1.750 inch  
Orifice Diameter  
16 ft. weir  
ID 33.3

60 x 30 x 3  
1.5 inch Skimmer  
with 1.250 inch  
Orifice Diameter  
7 ft. weir  
ID 33.4

SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 33

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

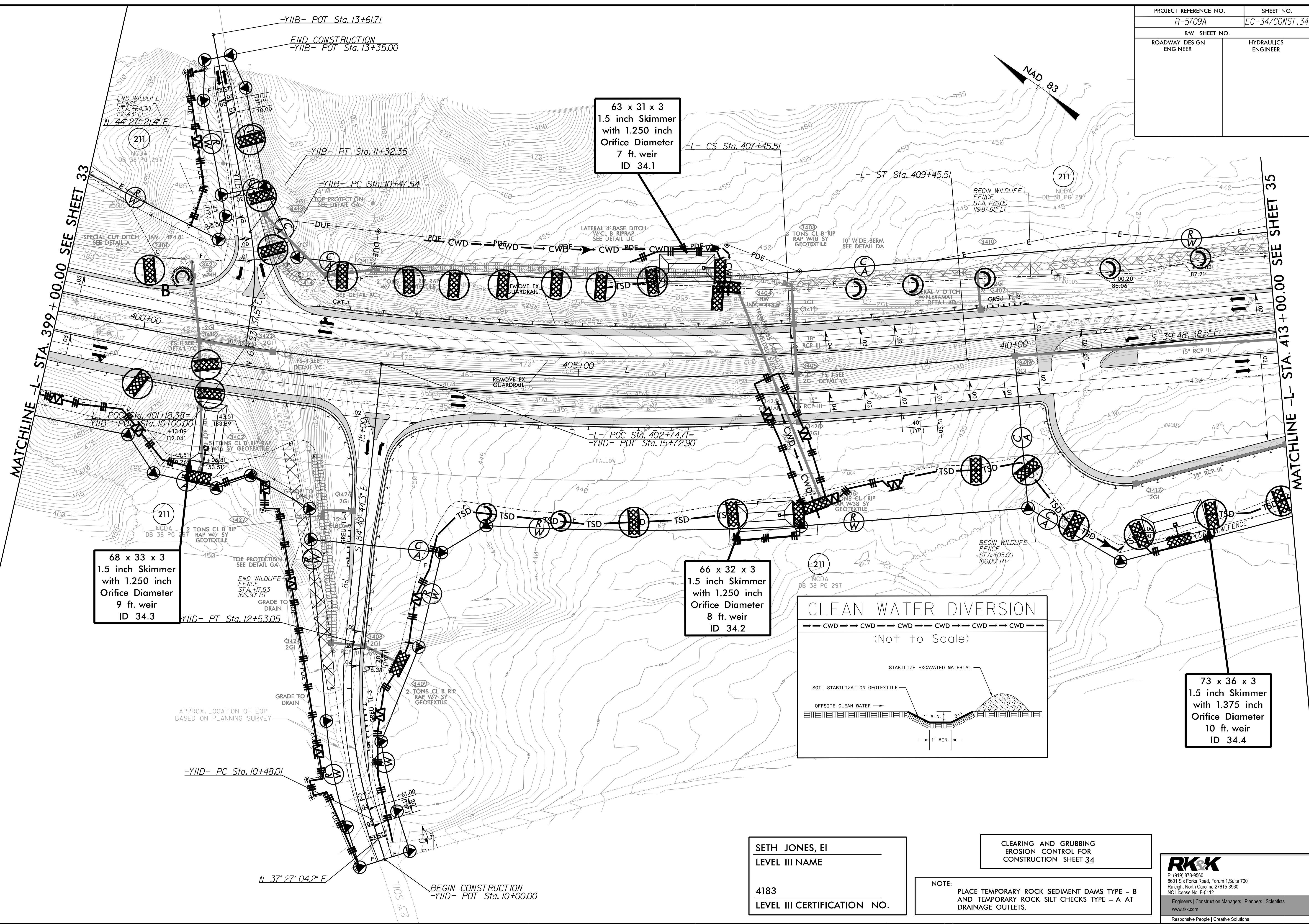
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7/23/2021  
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PROJECT REFERENCE NO. R-5709A	SHEET NO. EC-34/CONST.34
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

8/17/99  
7/21/2021  
R:\Projects\2021\Hydraulics\CADD\PSH\EC - Early Start C&S\Section 2\AR5709\_EC\_ESCG\_psh34.dgn

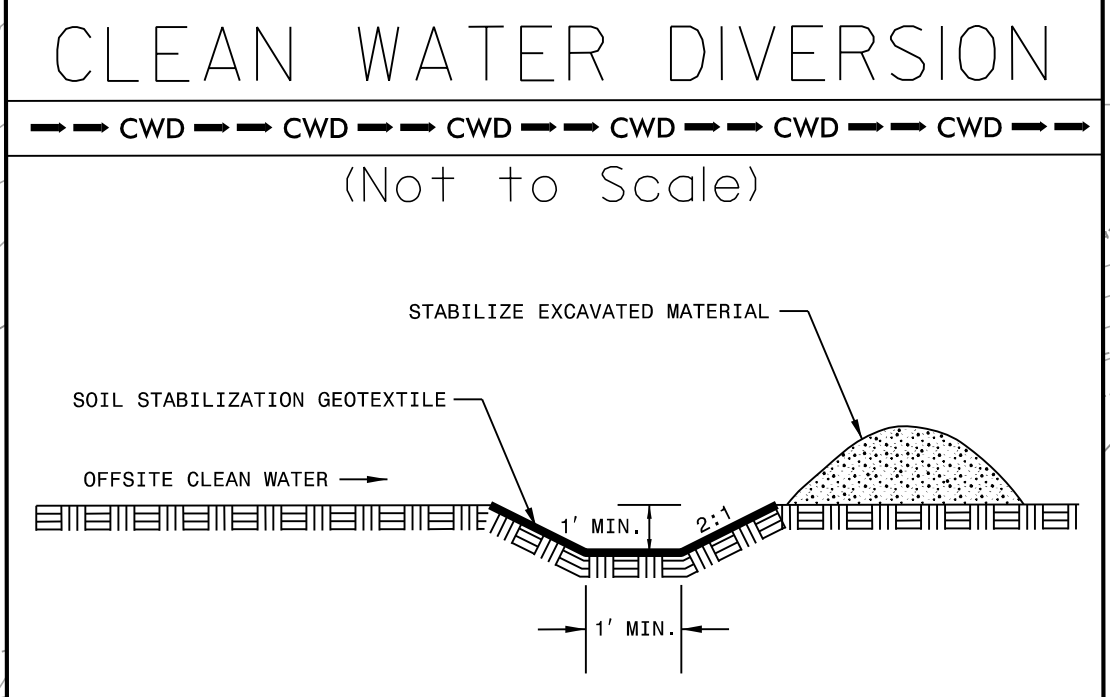


68 x 33 x 3  
1.5 inch Skimmer  
with 1.250 inch  
Orifice Diameter  
9 ft. weir  
ID 34.3

63 x 31 x 3  
1.5 inch Skimmer  
with 1.250 inch  
Orifice Diameter  
7 ft. weir  
ID 34.1

66 x 32 x 3  
1.5 inch Skimmer  
with 1.250 inch  
Orifice Diameter  
8 ft. weir  
ID 34.2

73 x 36 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
10 ft. weir  
ID 34.4



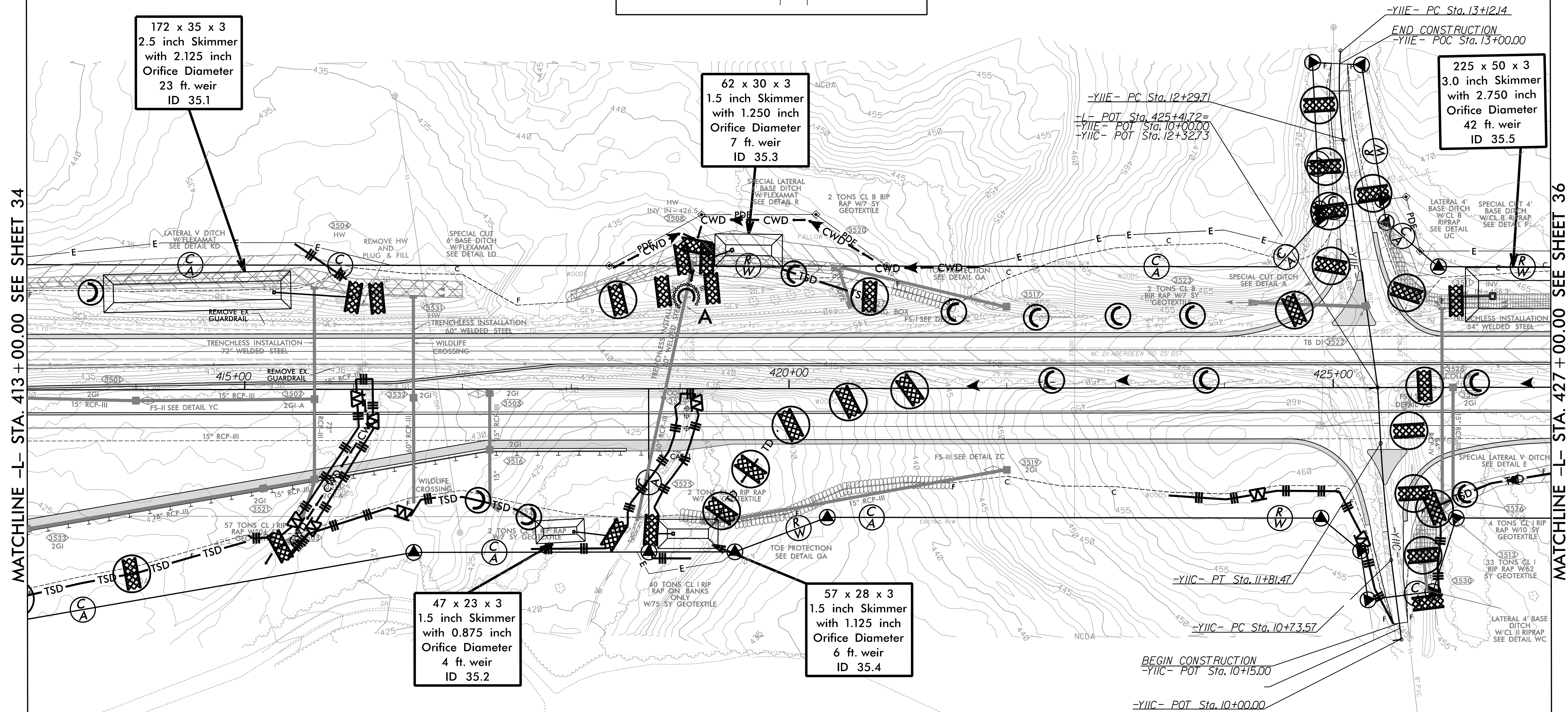
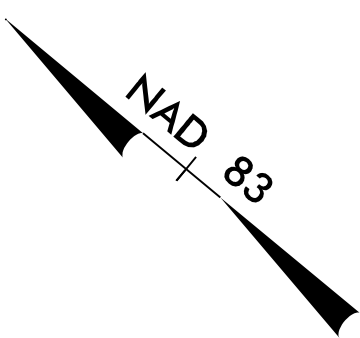
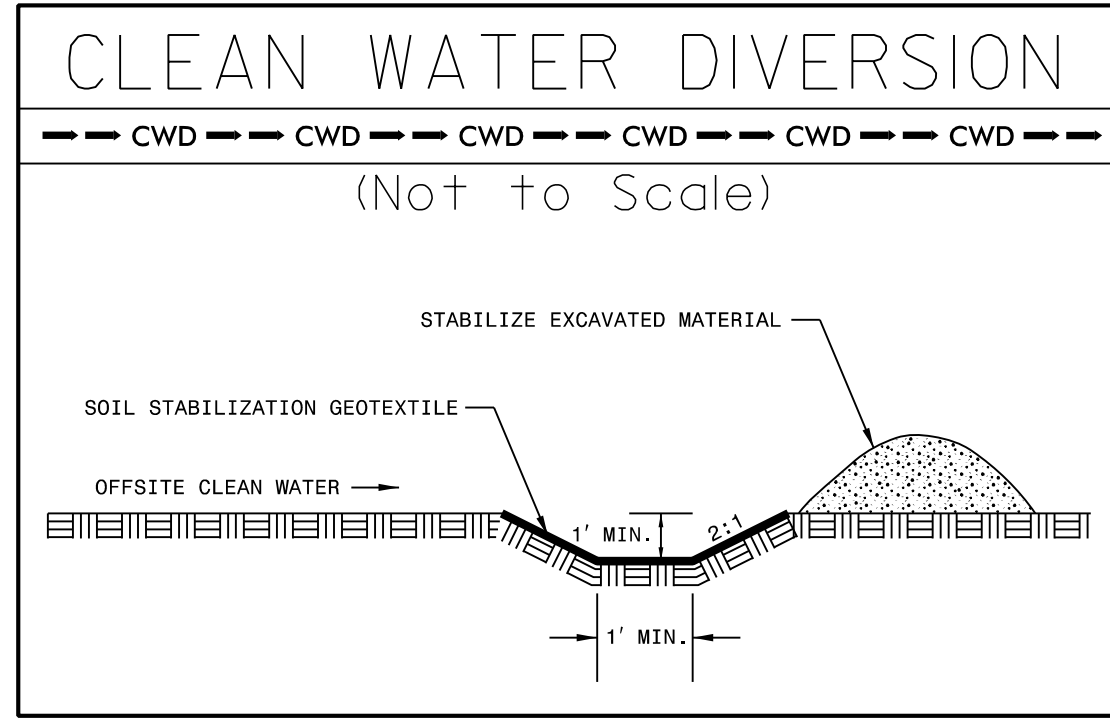
SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 34

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

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MATCHLINE -L- STA. 413+00.00 SEE SHEET 34

MATCHLINE -L- STA. 427+00.00 SEE SHEET 36

BEGIN CONSTRUCTION  
-YIIC- POT Sta. 10+00.00

-YIIC- PT Sta. 11+81.47

-YIIC- PC Sta. 10+73.57

END CONSTRUCTION  
-YIIE- POC Sta. 13+00.00

-YIIE- PC Sta. 13+12.14

SETH JONES, EI  
LEVEL III NAME

4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 35

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

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7/21/2021  
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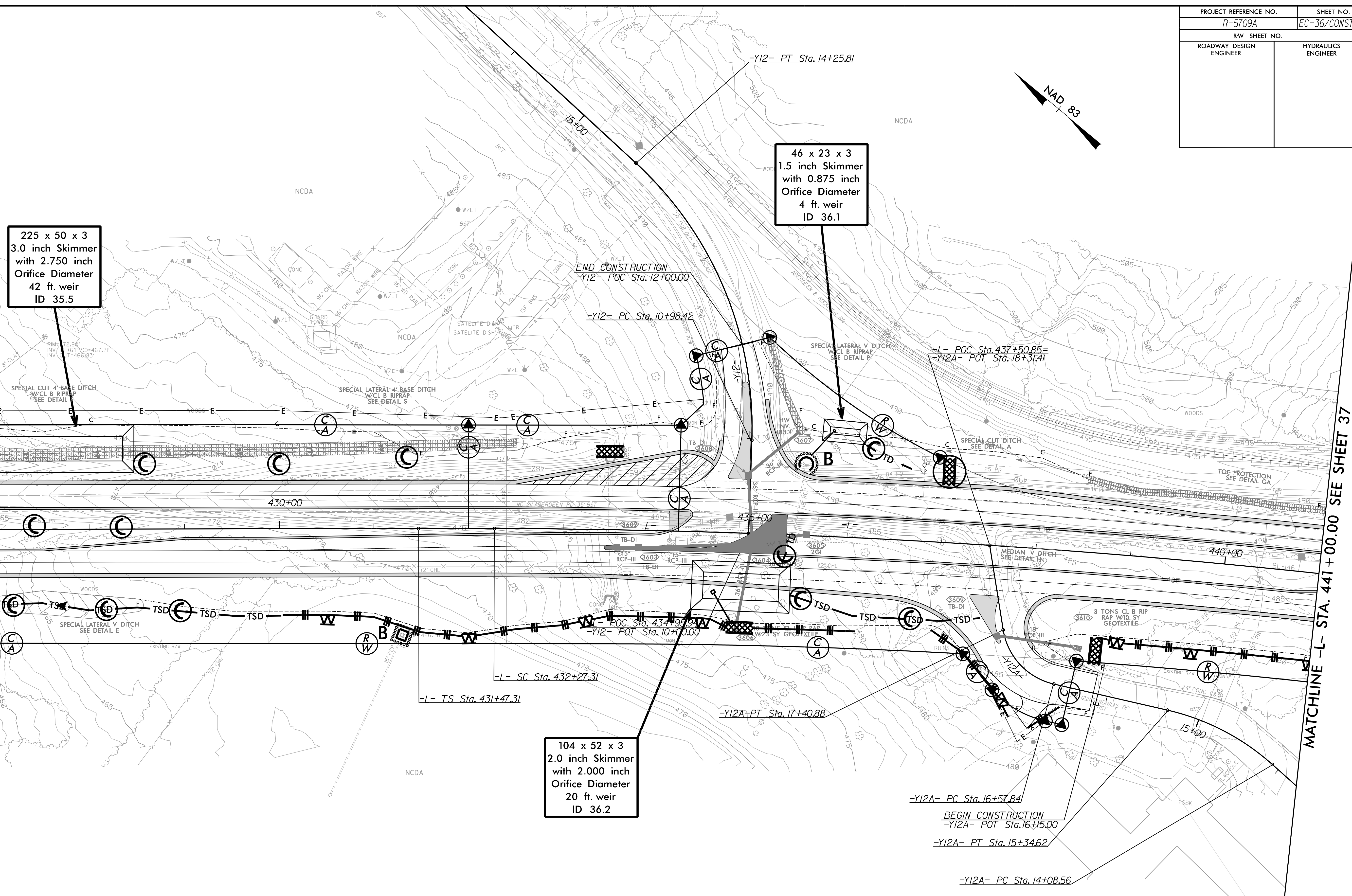


PROJECT REFERENCE NO.	SHEET NO.
R-5709A	EC-36/CONST.36
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

8/17/99

MATCHLINE -L- STA. 427+20.00 SEE SHEET 35

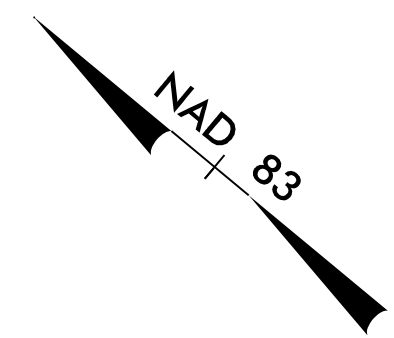
MATCHLINE -L- STA. 441+00.00 SEE SHEET 37



225 x 50 x 3  
3.0 inch Skimmer  
with 2.750 inch  
Orifice Diameter  
42 ft. weir  
ID 35.5

46 x 23 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 36.1

104 x 52 x 3  
2.0 inch Skimmer  
with 2.000 inch  
Orifice Diameter  
20 ft. weir  
ID 36.2



SETH JONES, EI  
LEVEL III NAME  
  
4183  
LEVEL III CERTIFICATION NO.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 36

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

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