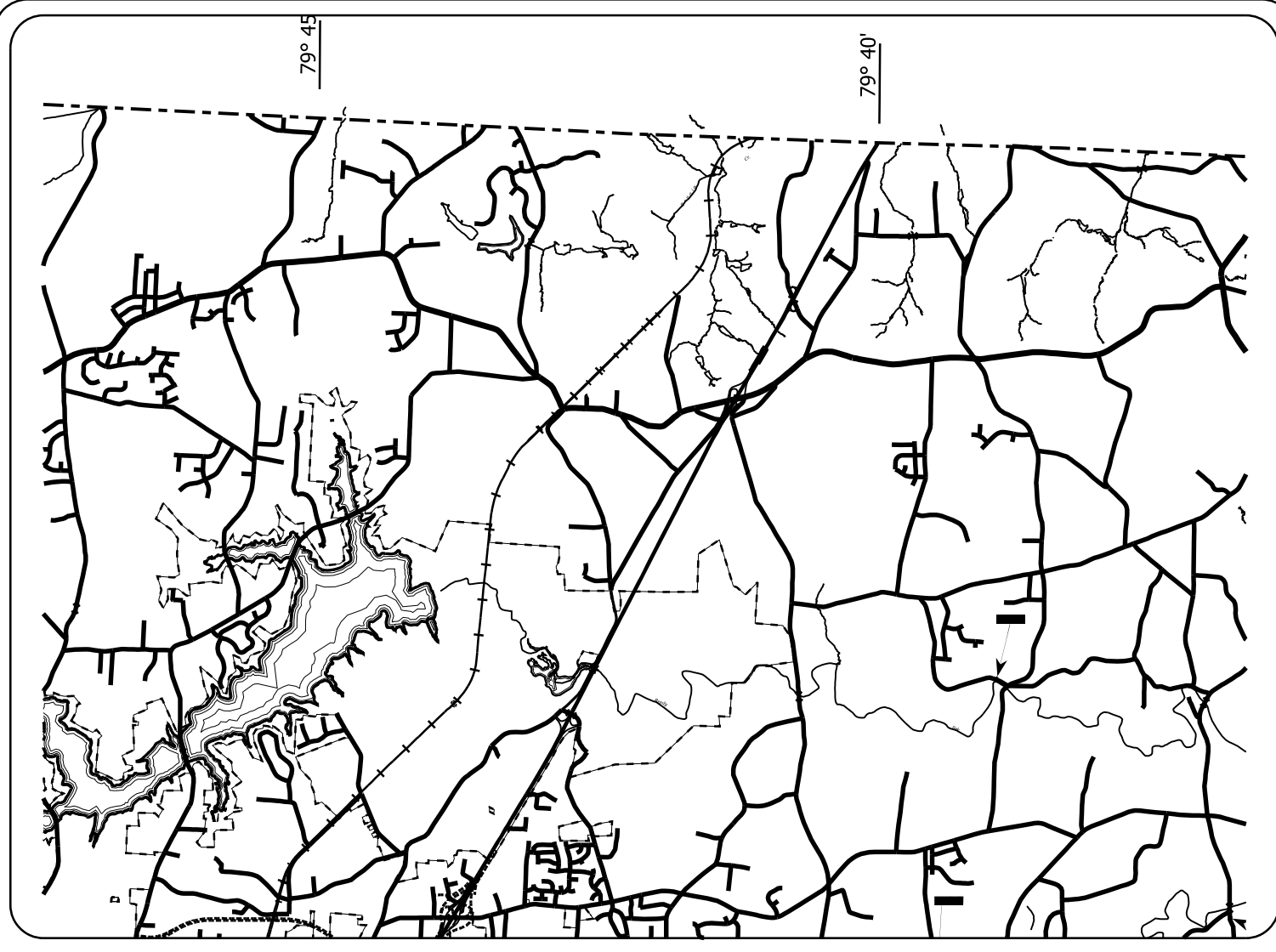


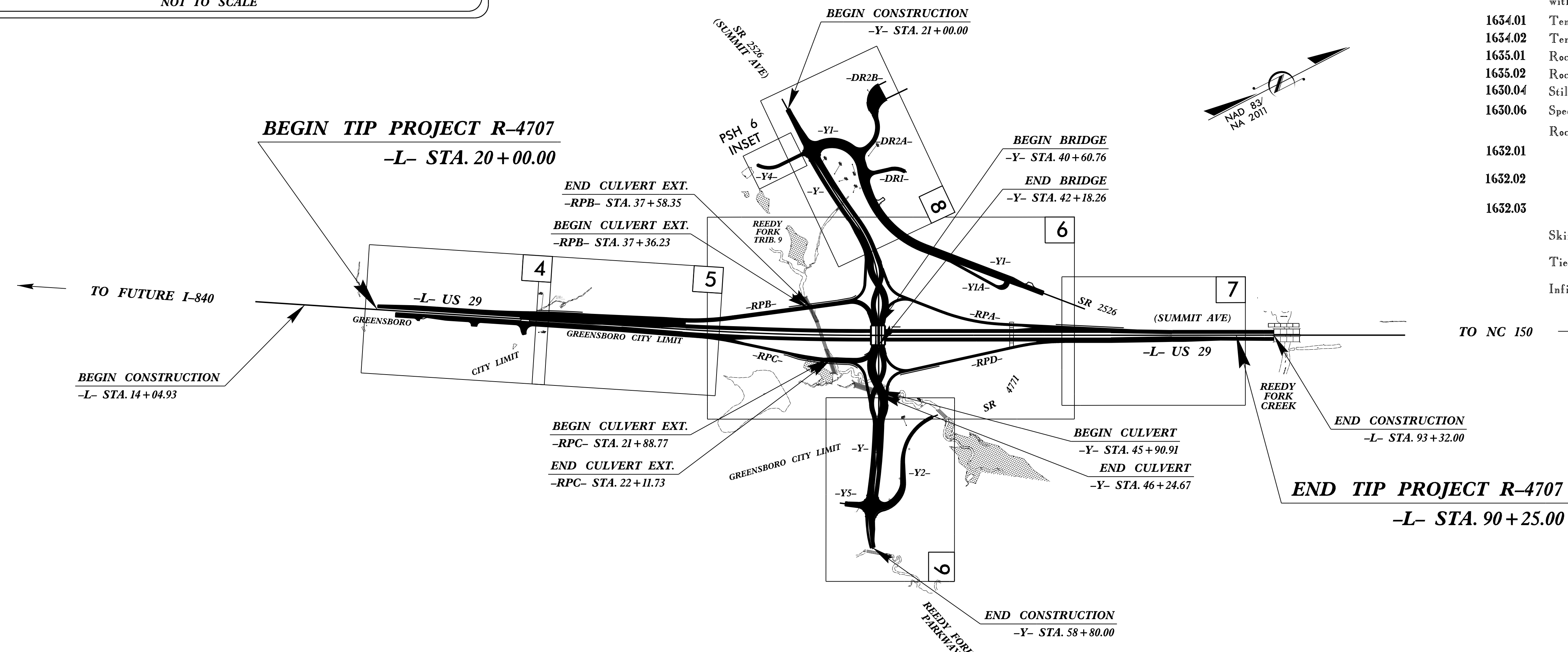
TIP PROJECT: R-4707



VICINITY MAP
NOT TO SCALE

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

**US 29 AND SR 4771 (REEDY FORK PARKWAY)
INTERCHANGE IMPROVEMENTS; IMPROVE ROADWAY,
MODIFY INTERCHANGE AND REPLACE BRIDGE 400360
GRADING, PAVING, DRAINAGE, SIGNALS AND STRUCTURES**



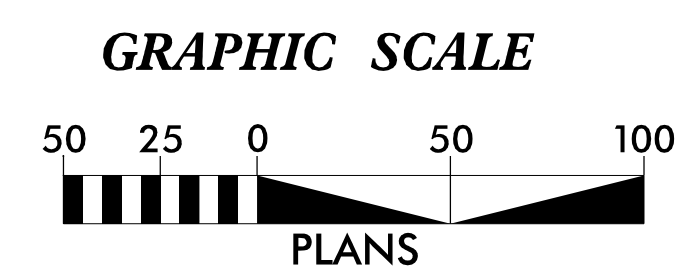
EROSION AND SEDIMENT CONTROL MEASURES

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
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDA-B
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.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
Refer To E. C. Special Provisions for Special Considerations.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE 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.

Mead & Hunt

Mead & Hunt

111 E. Hargett Street, Suite 300
Raleigh, North Carolina 27601
919-714-8670 | meadhunt.com
NC License No. F-1235

Designed by:
CARLAS SHARPLESS 4024
NAME LEVEL III CERTIFICATION NO.

Prepared in the Office of:

Highway Standard Drawings

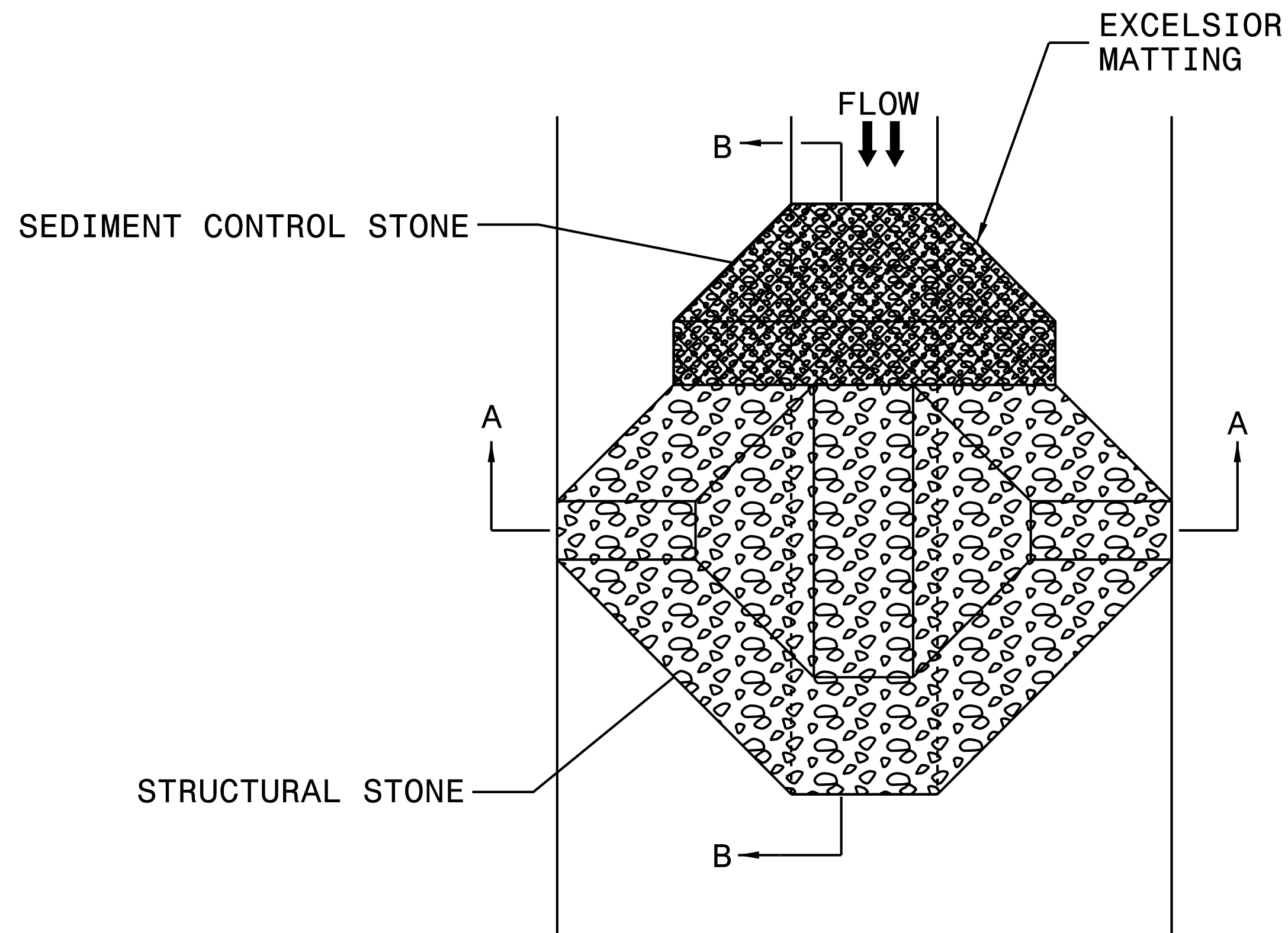
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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		

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PROJECT REFERENCE NO. <i>R-4707</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

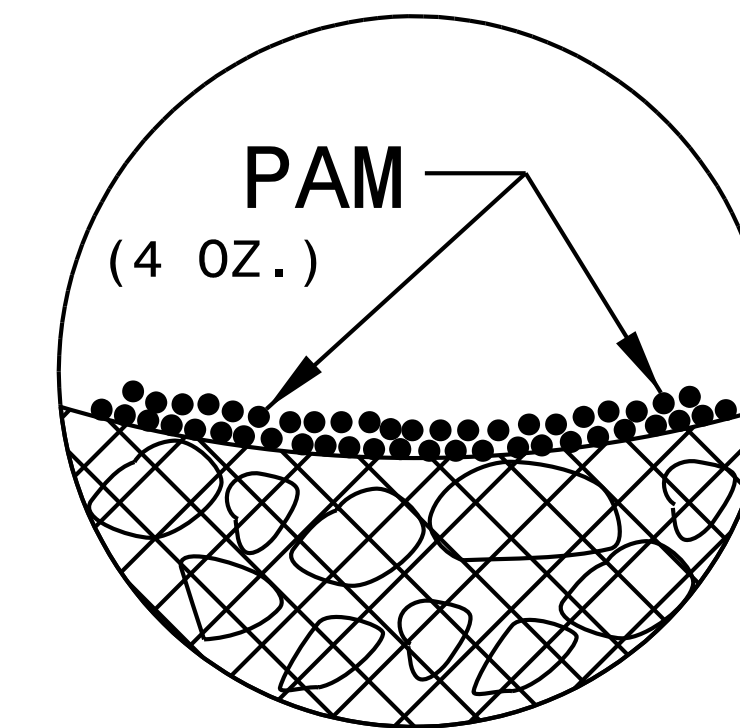
NOTES:

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

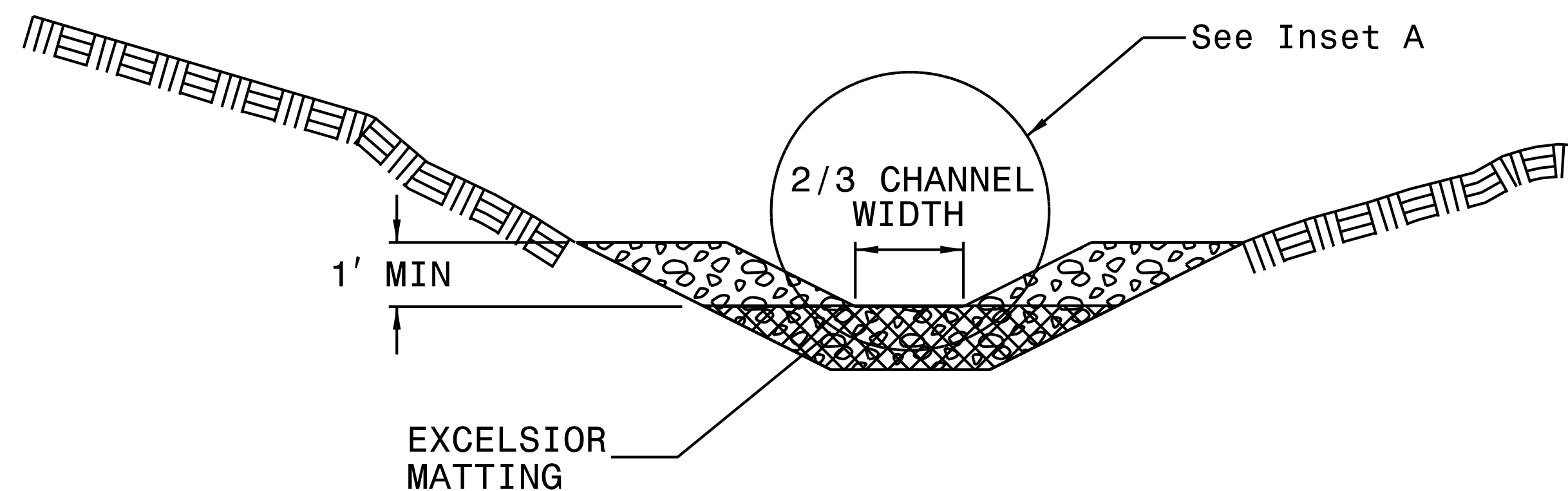
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

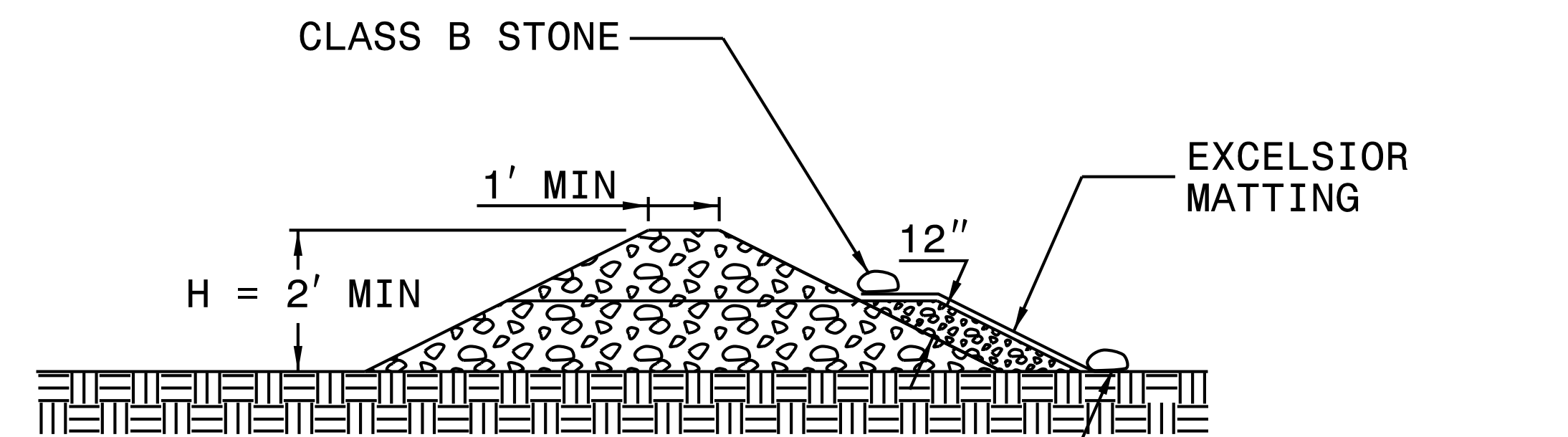
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A

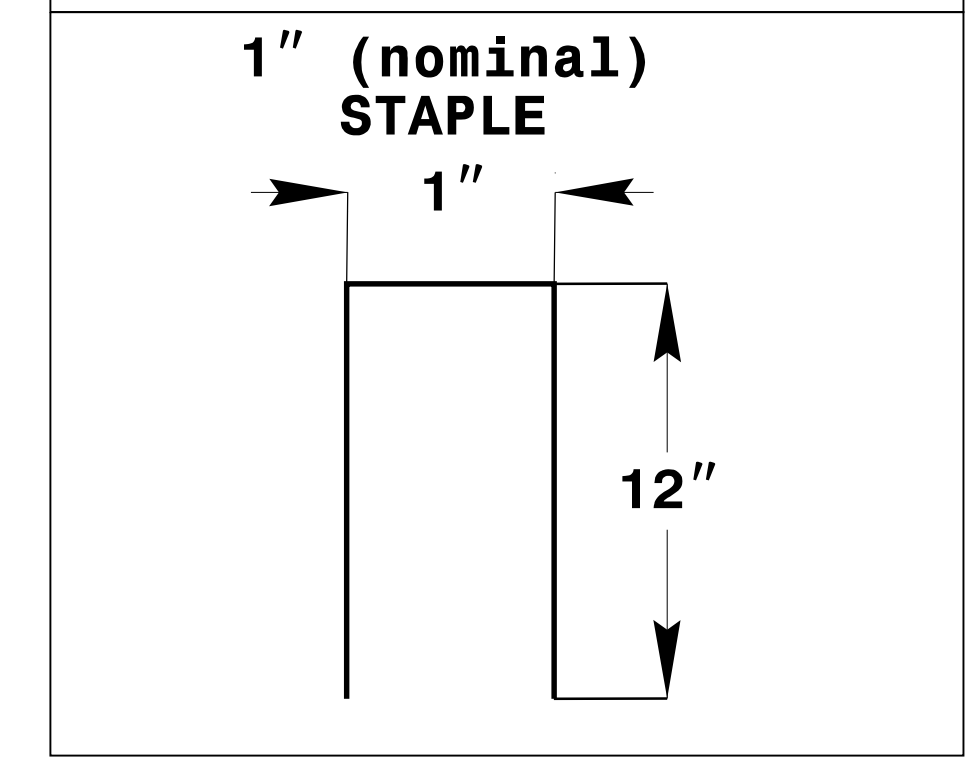
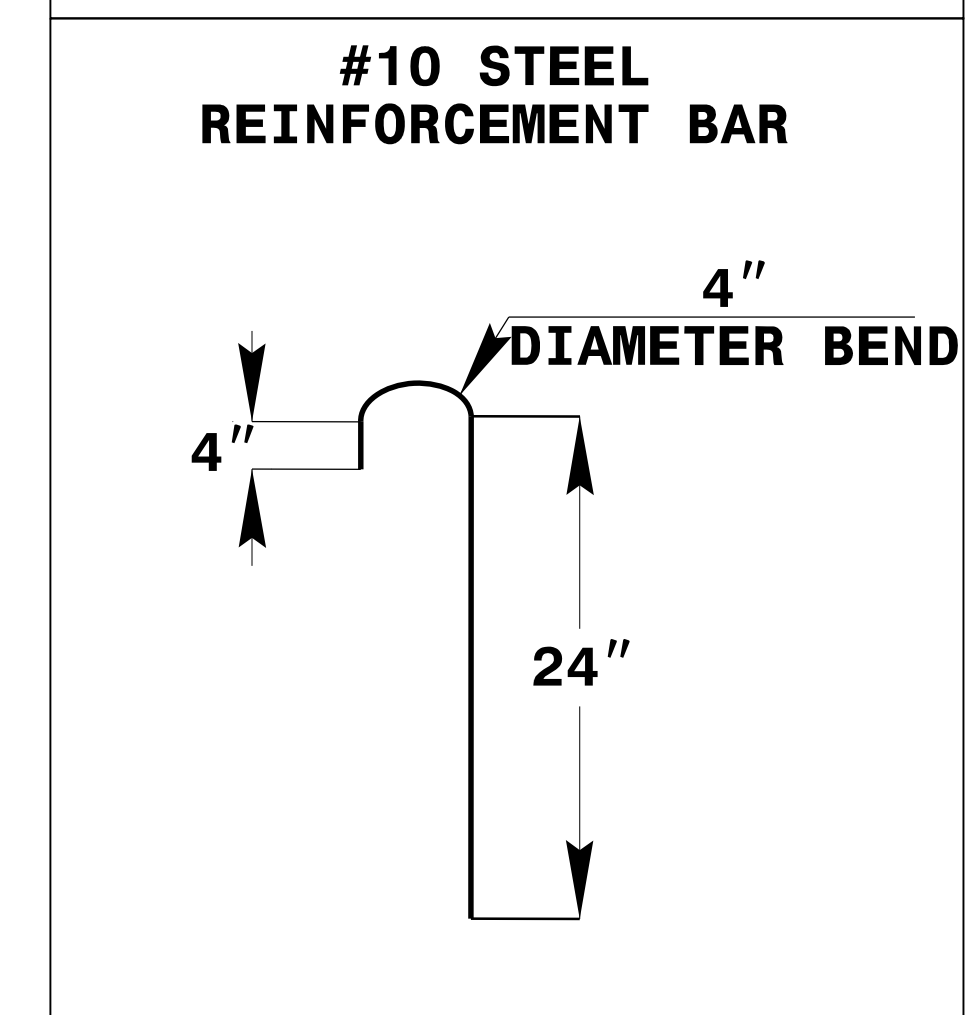
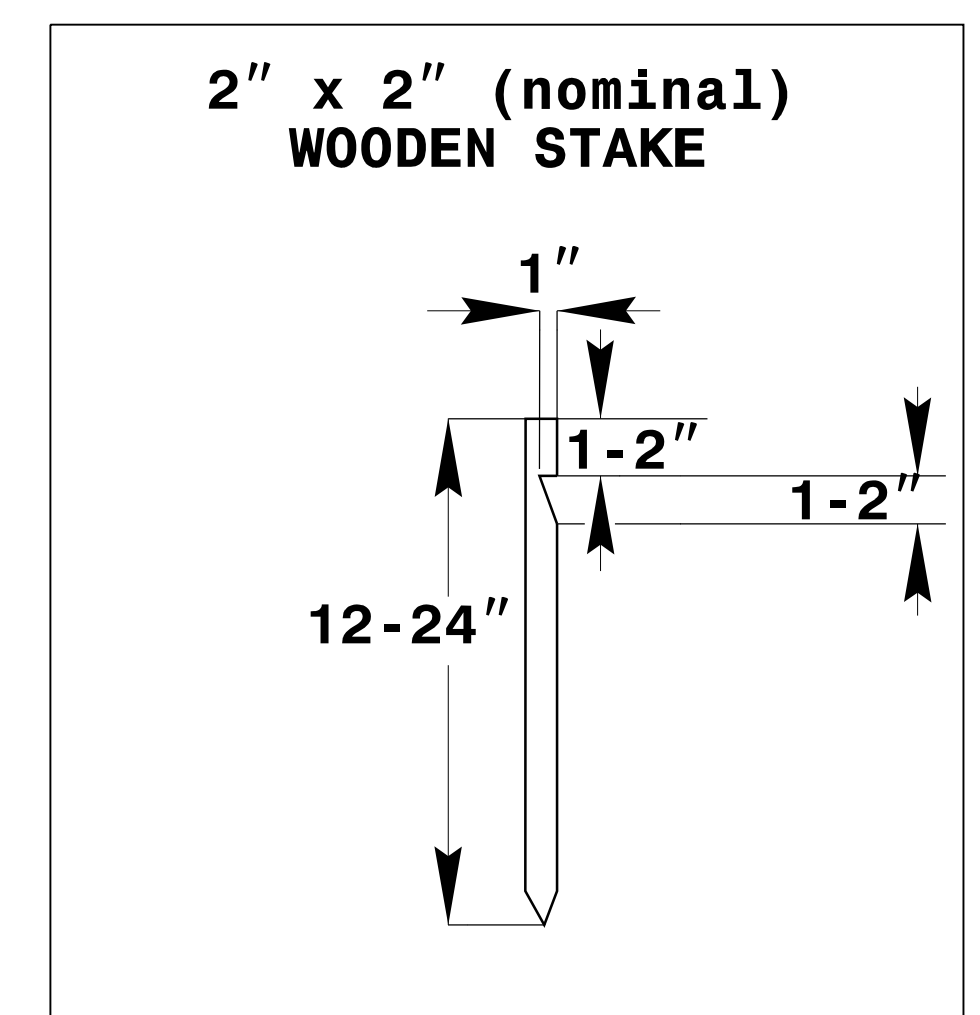
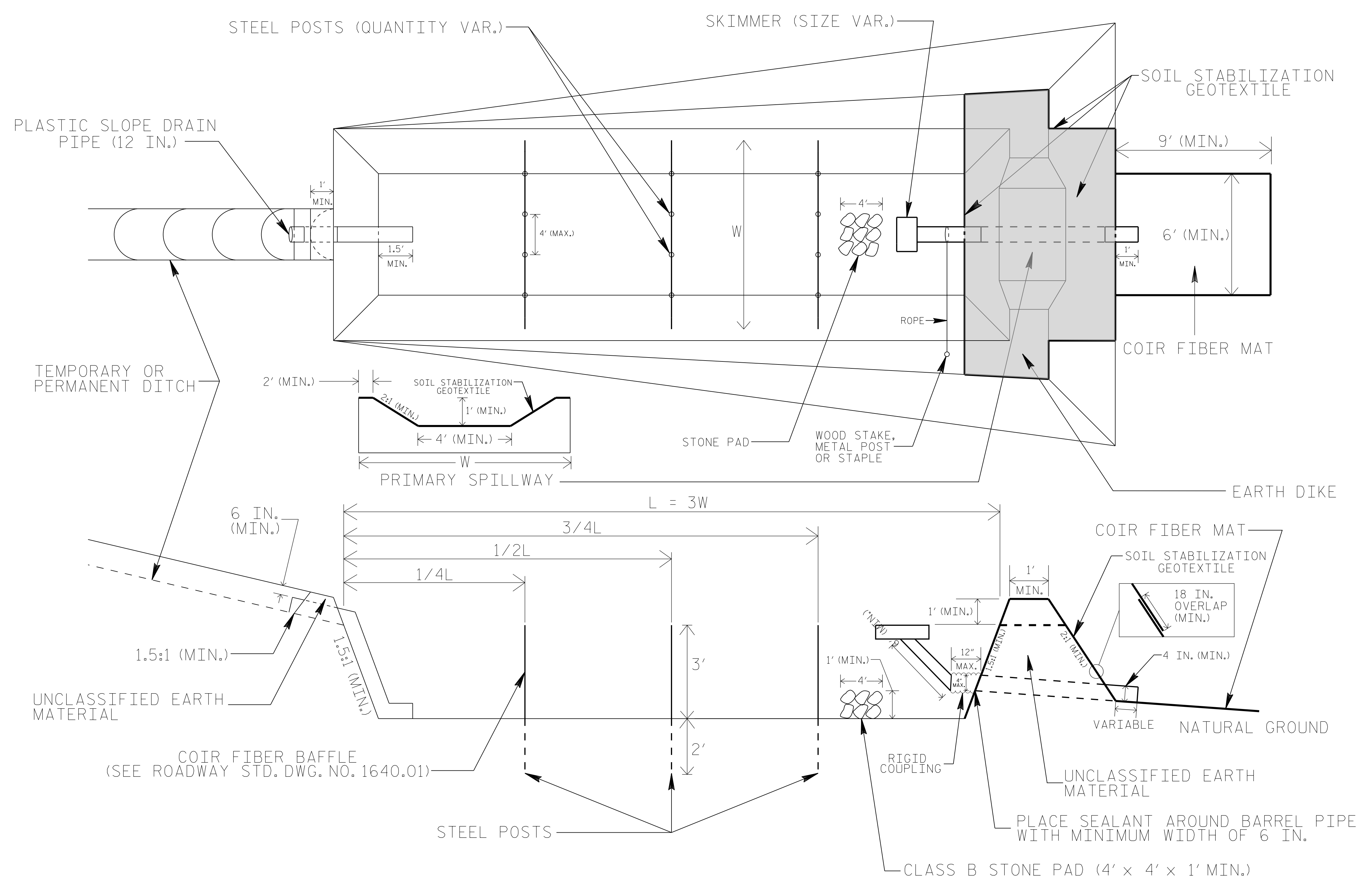


SECTION B-B

NOT TO SCALE

PROJECT REFERENCE NO. R-4707	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

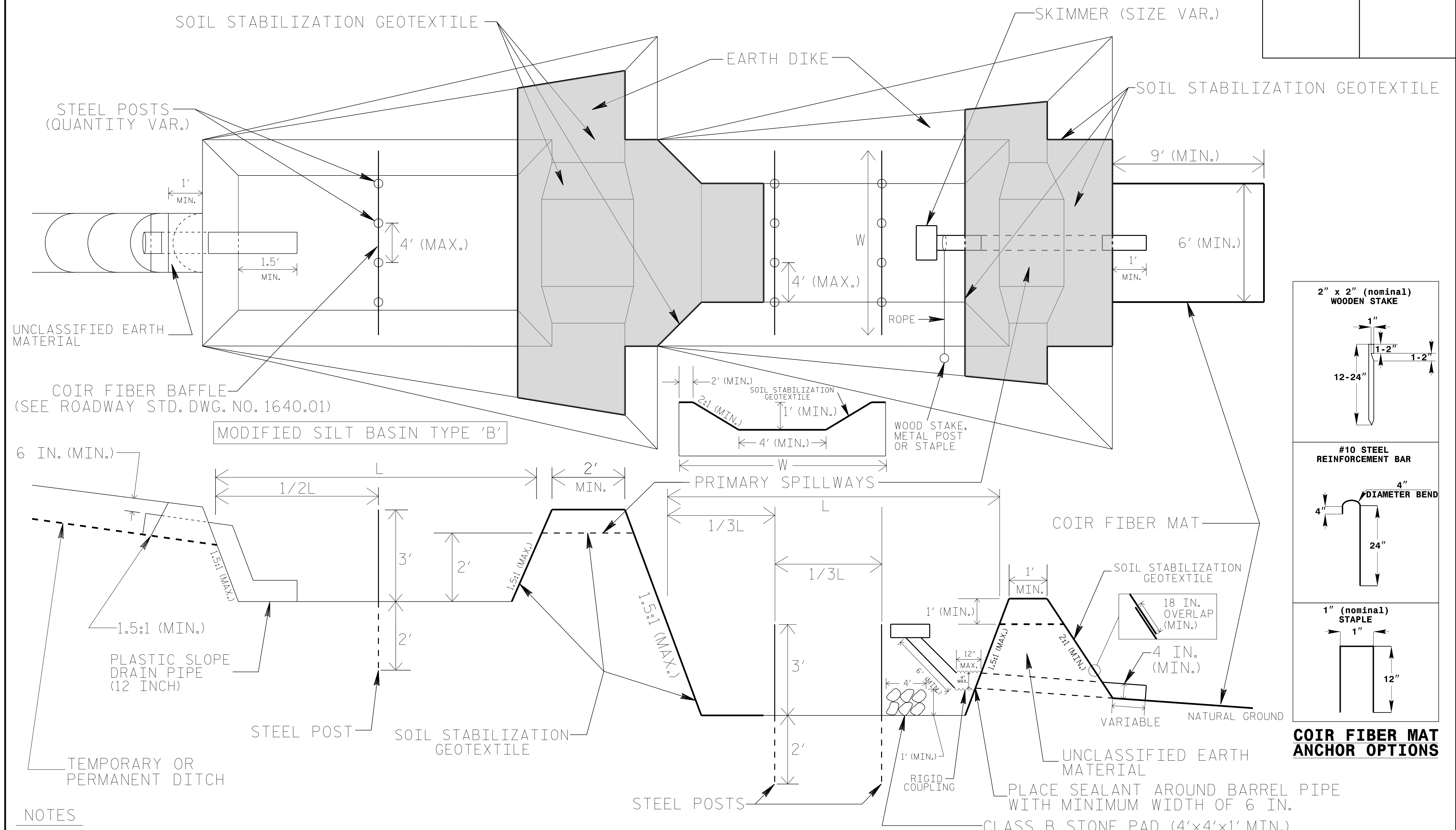
NOTES

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

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. R-4707	SHEET NO. EC-2B
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. R-4707	SHEET NO. EC-2C
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.

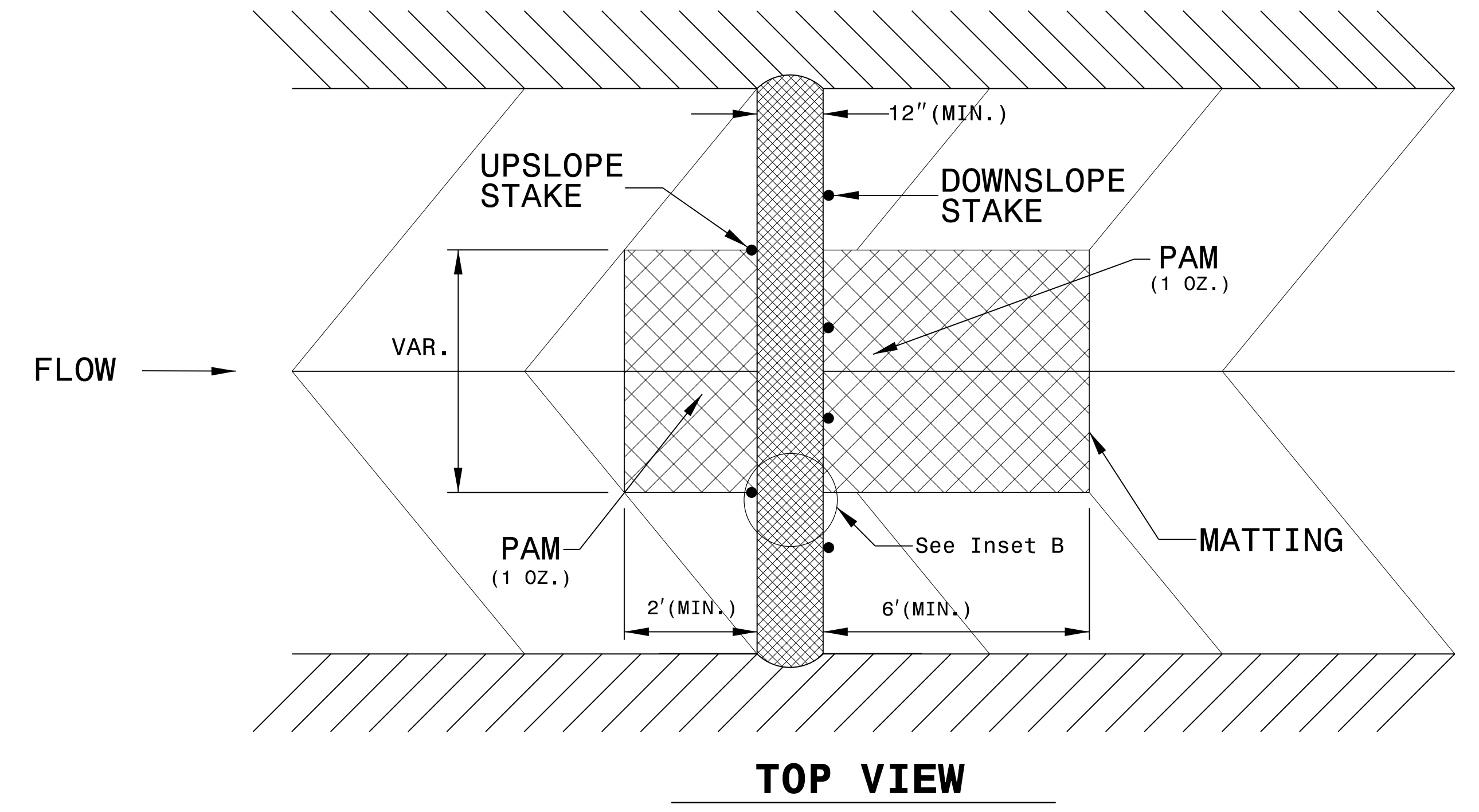
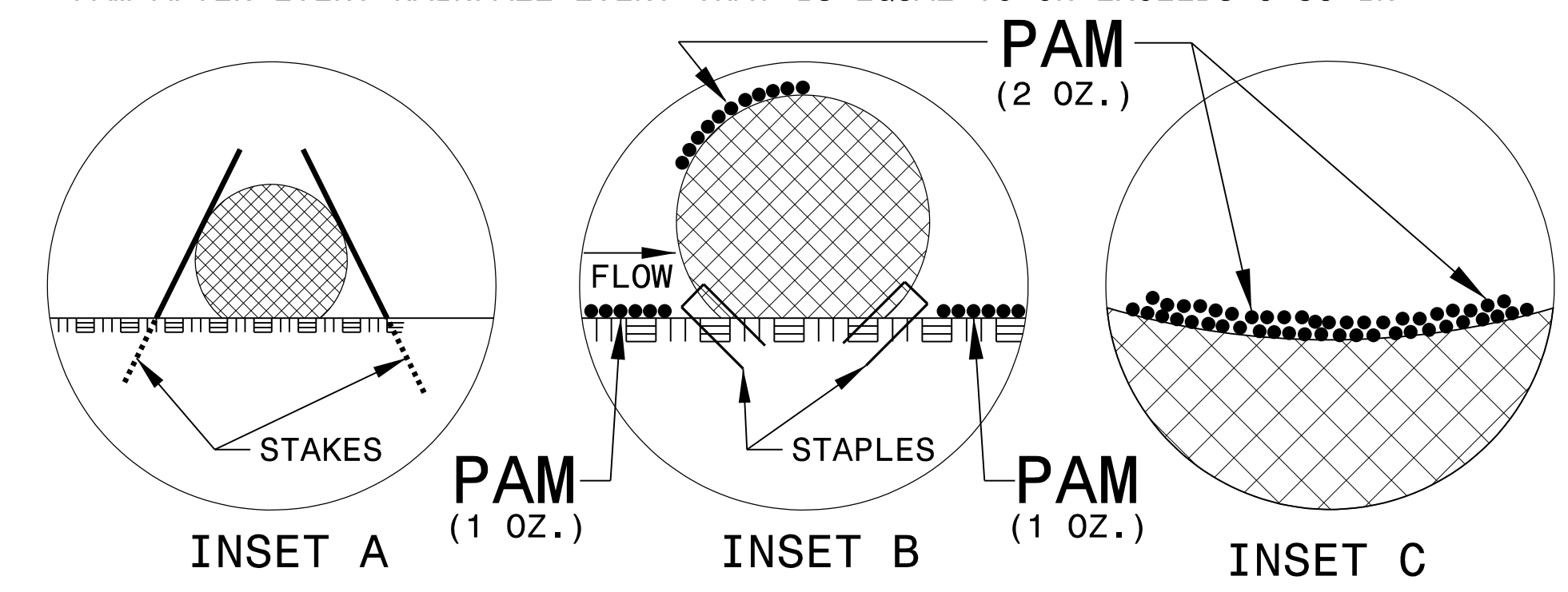
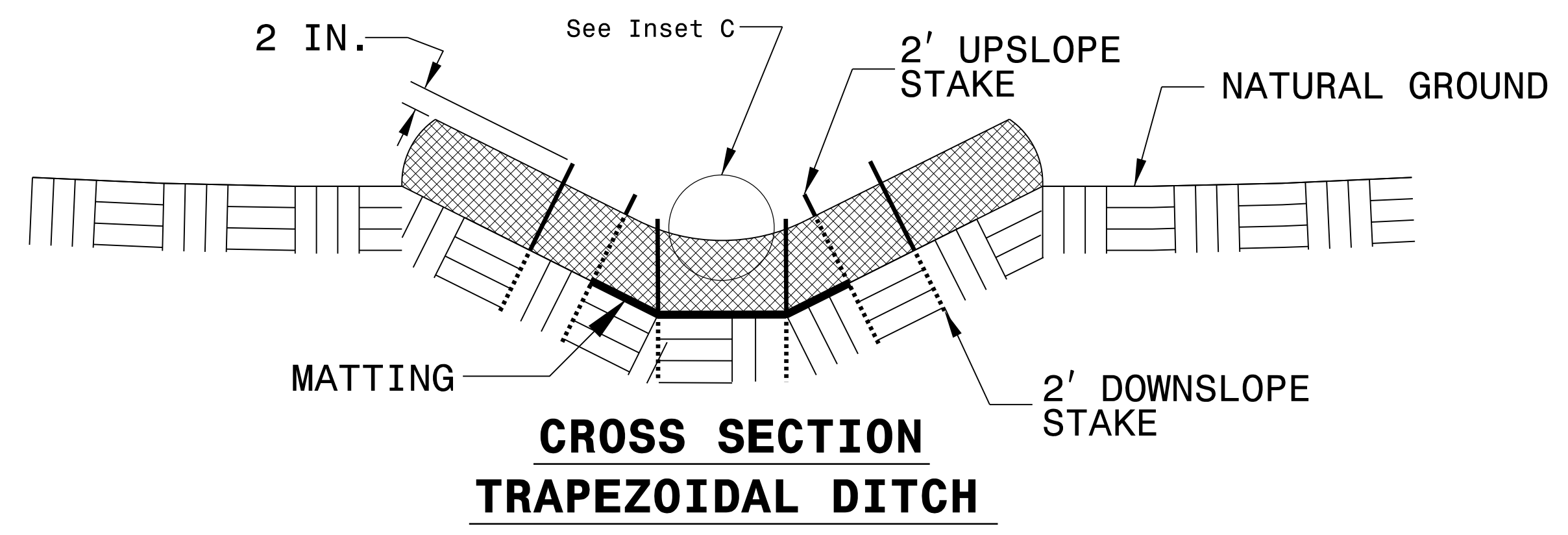
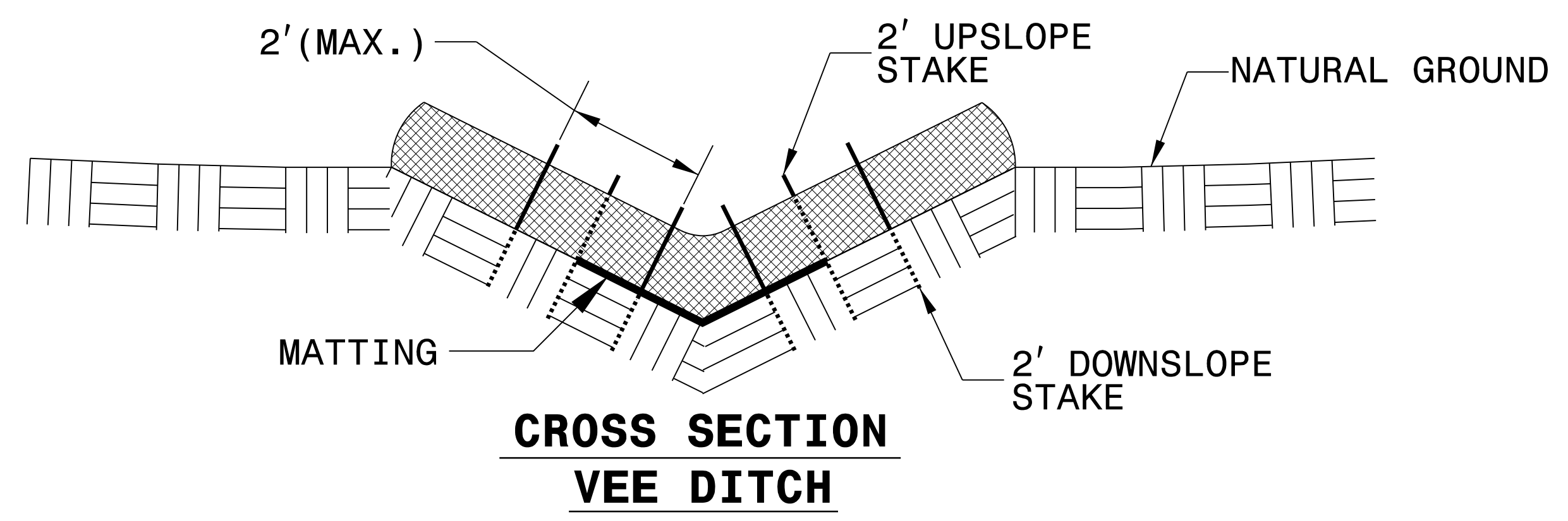
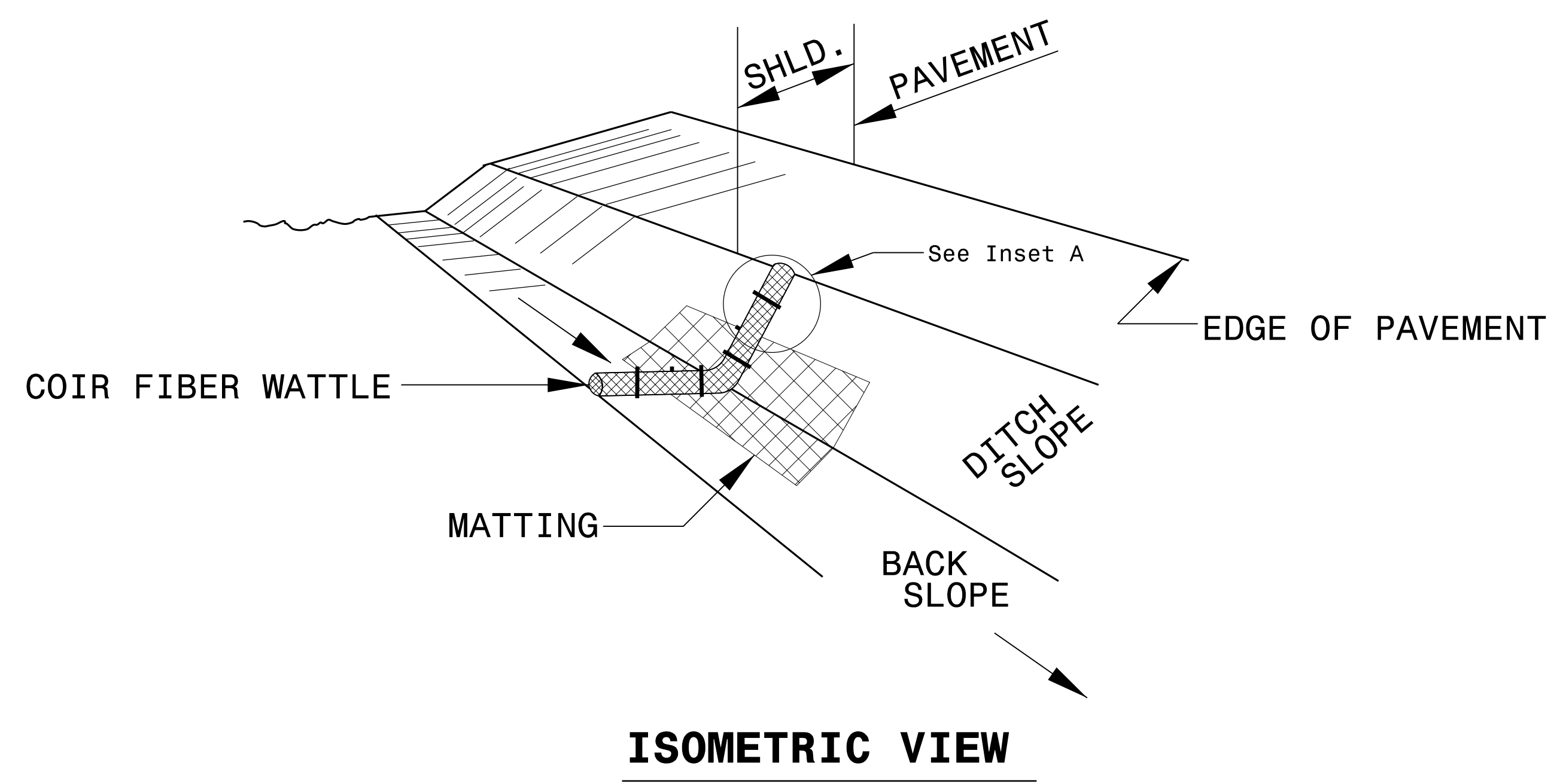
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

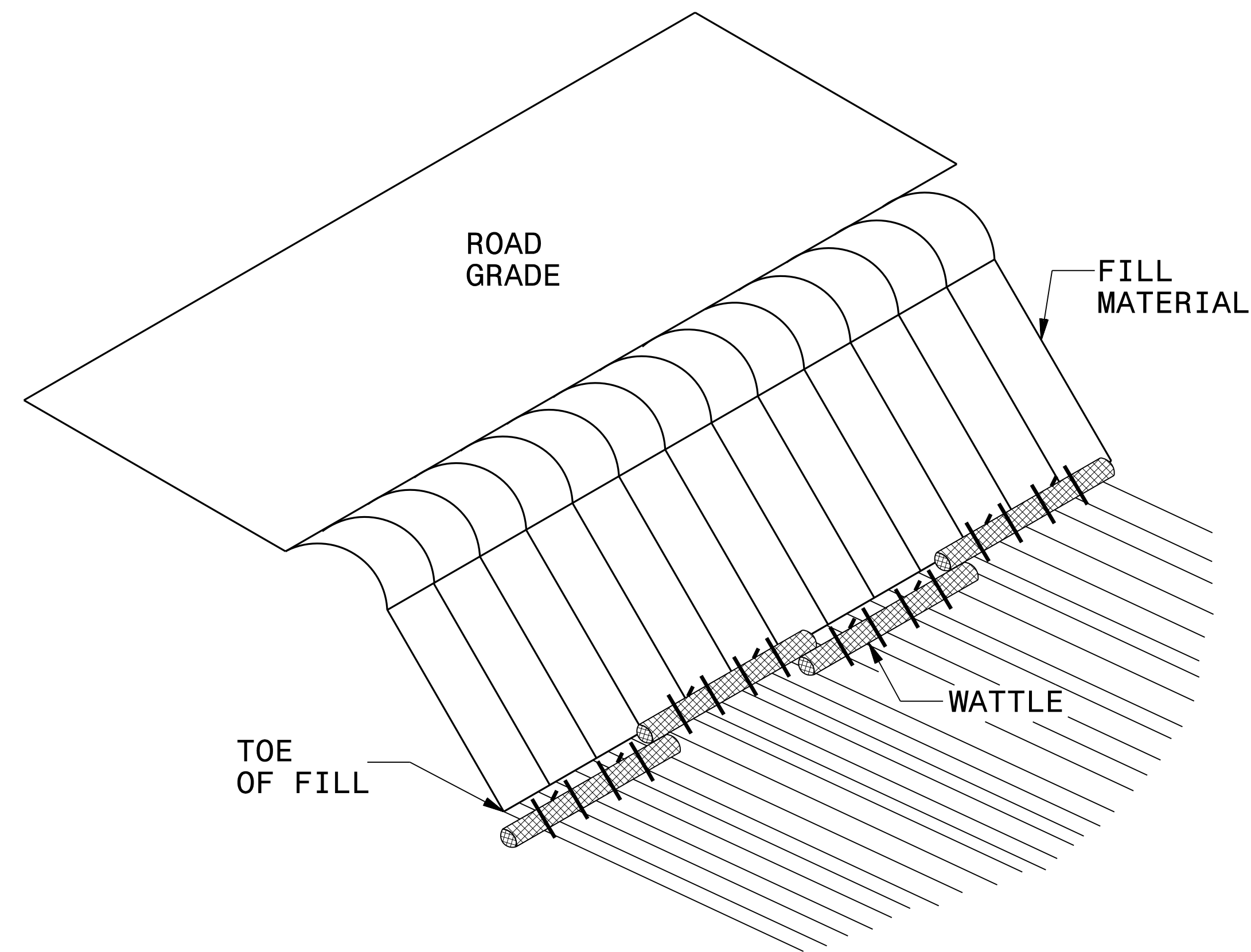
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

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.

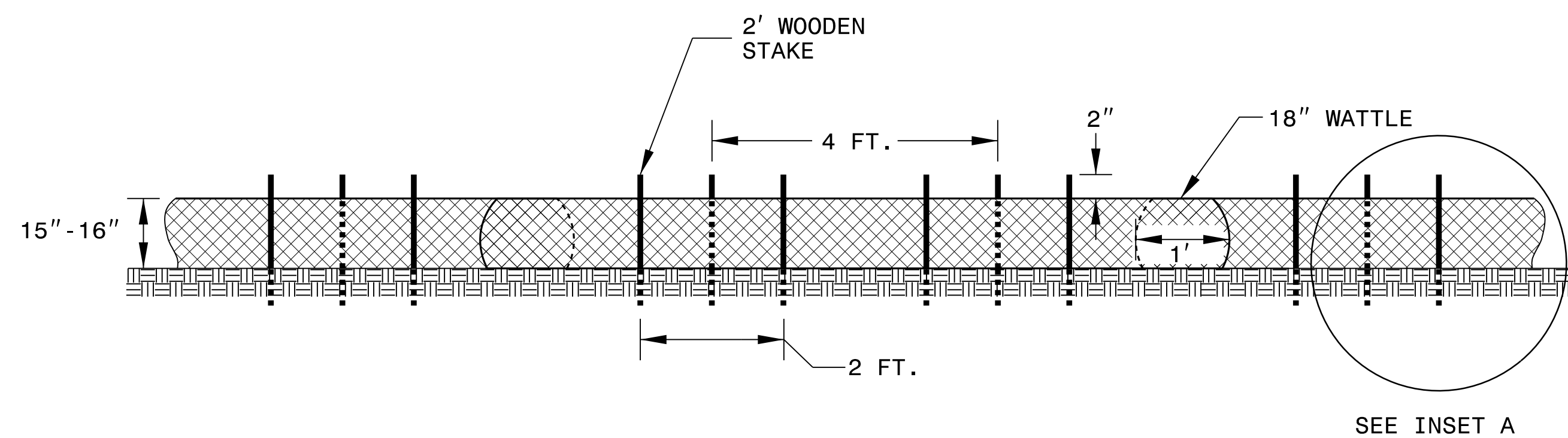


PROJECT REFERENCE NO. <i>R-4707</i>	SHEET NO. <i>EC-2D</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE BARRIER DETAIL



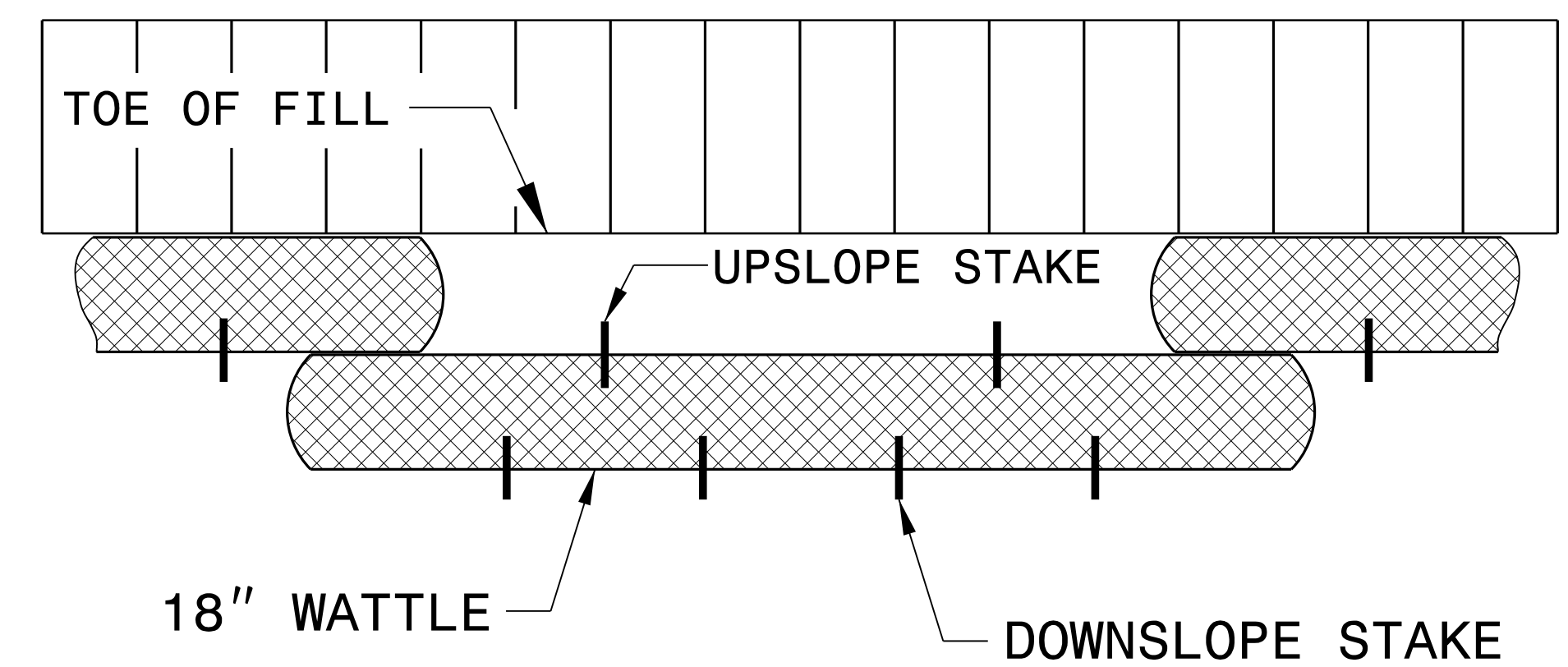
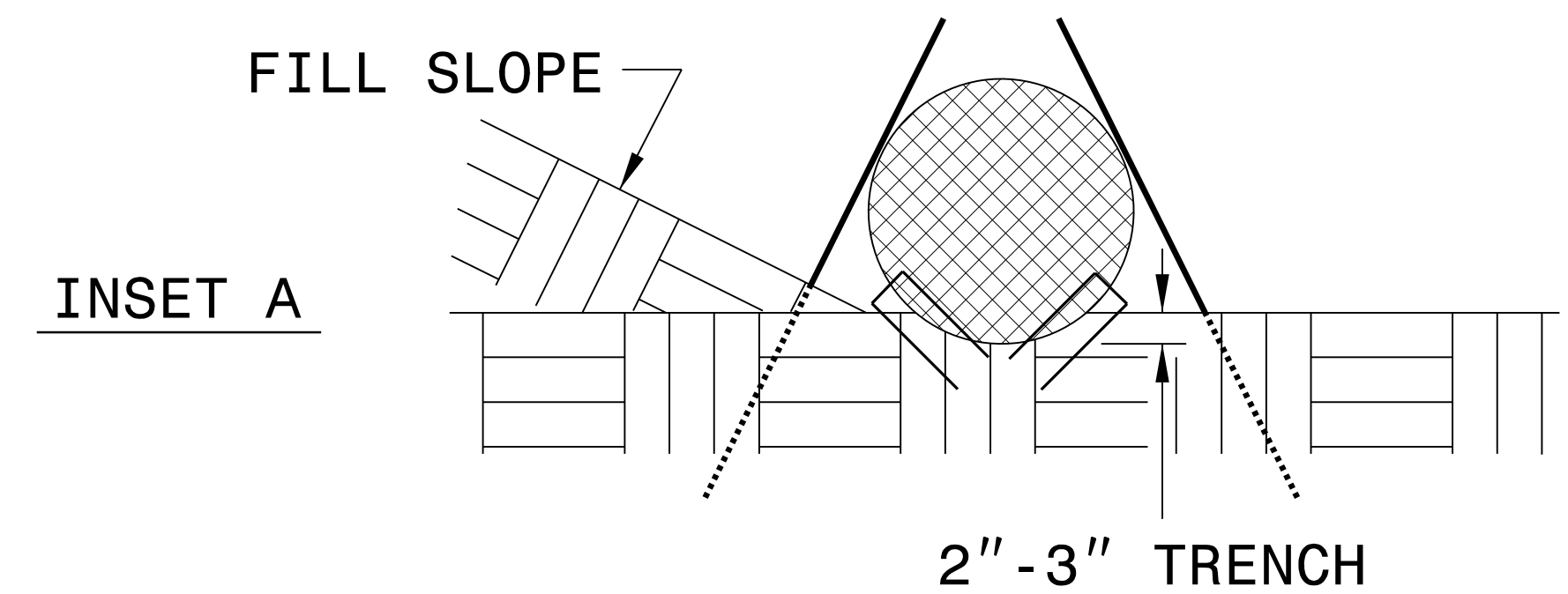
ISOMETRIC VIEW



FRONT VIEW

NOTES:

- USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) 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.



TOP VIEW

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>R-4707</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.

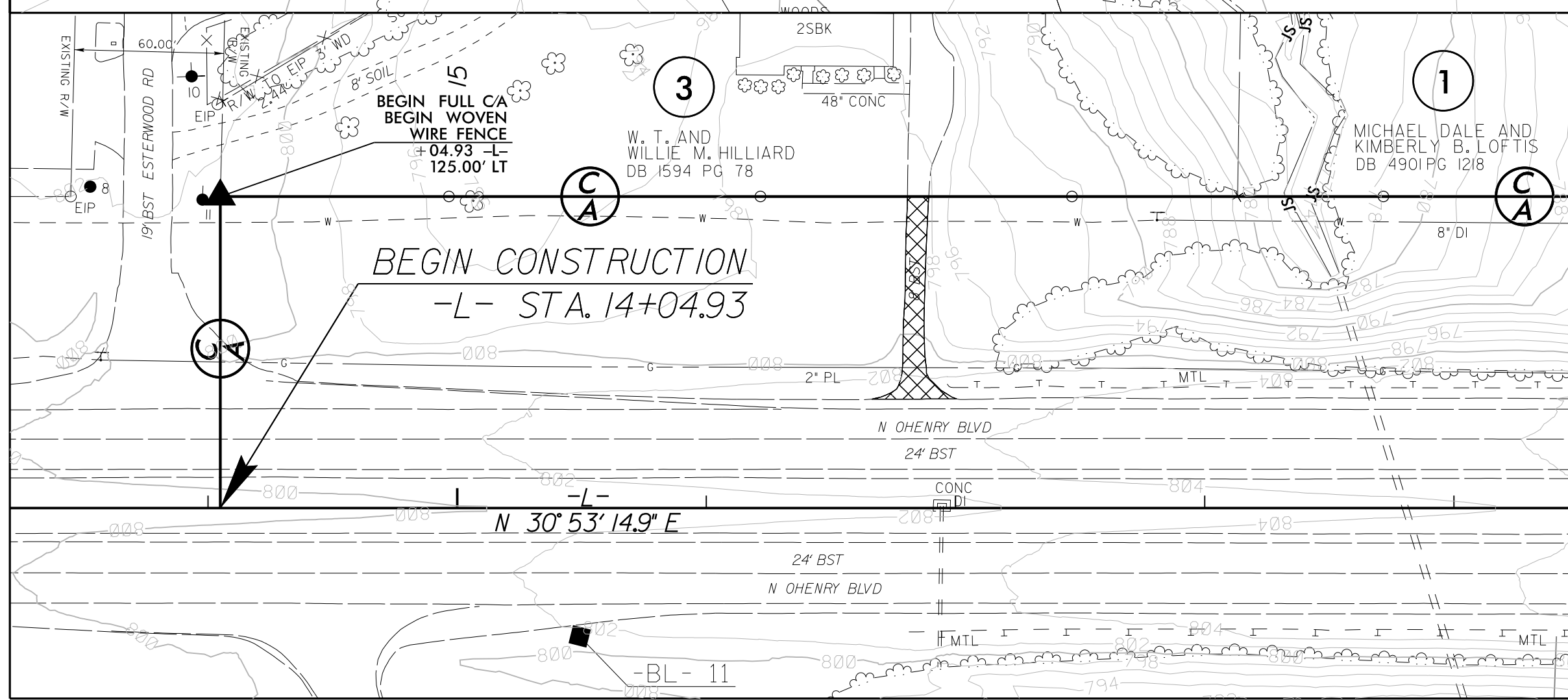
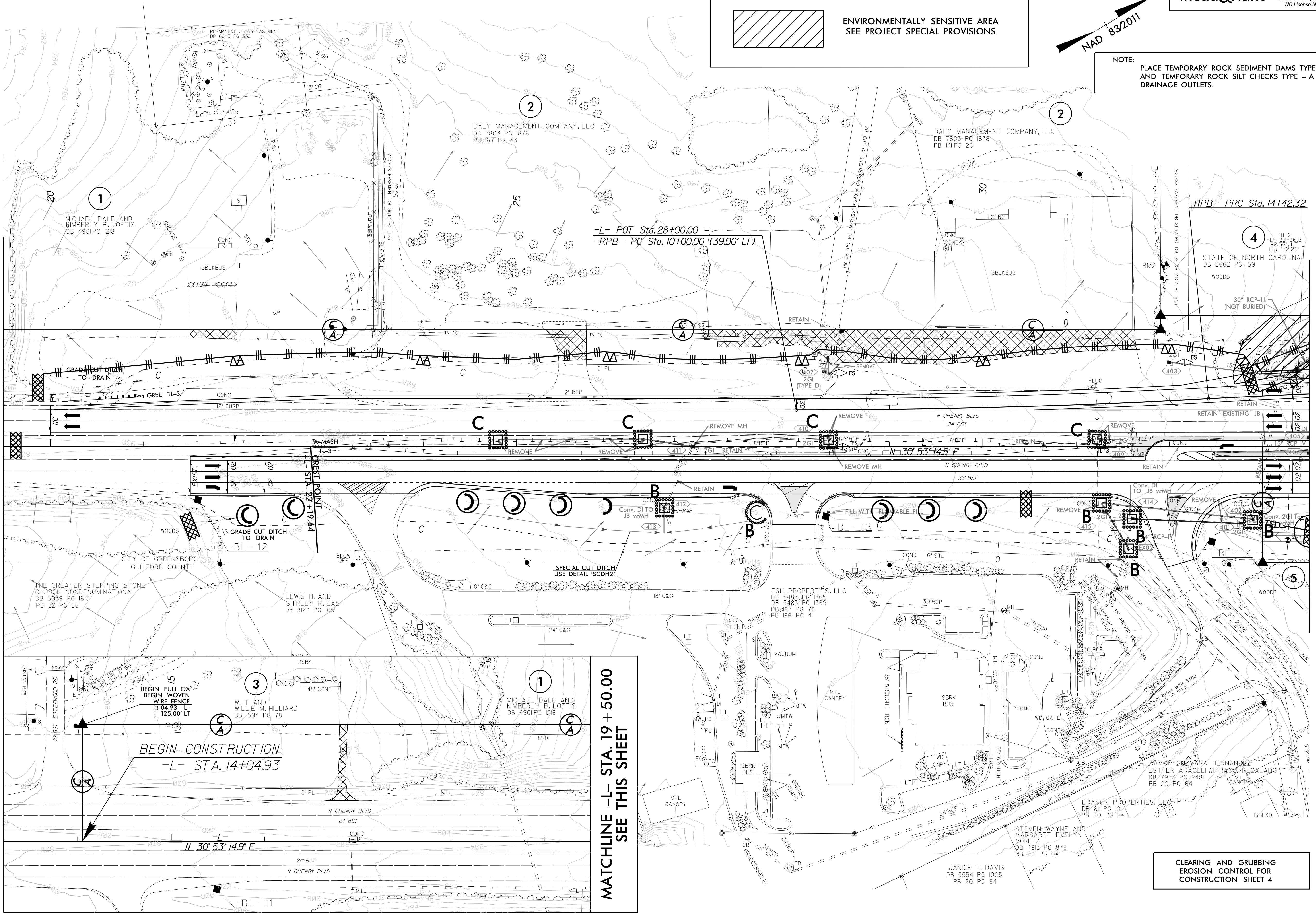


ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

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

MATCHLINE -L- STA. 19 + 50.00 SEE INSET THIS SHEET

MATCHLINE -L- STA. 33 + 50.00 SEE SHEET 5



MATCHLINE -L- STA. 19 + 50.00
 SEE THIS SHEET

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

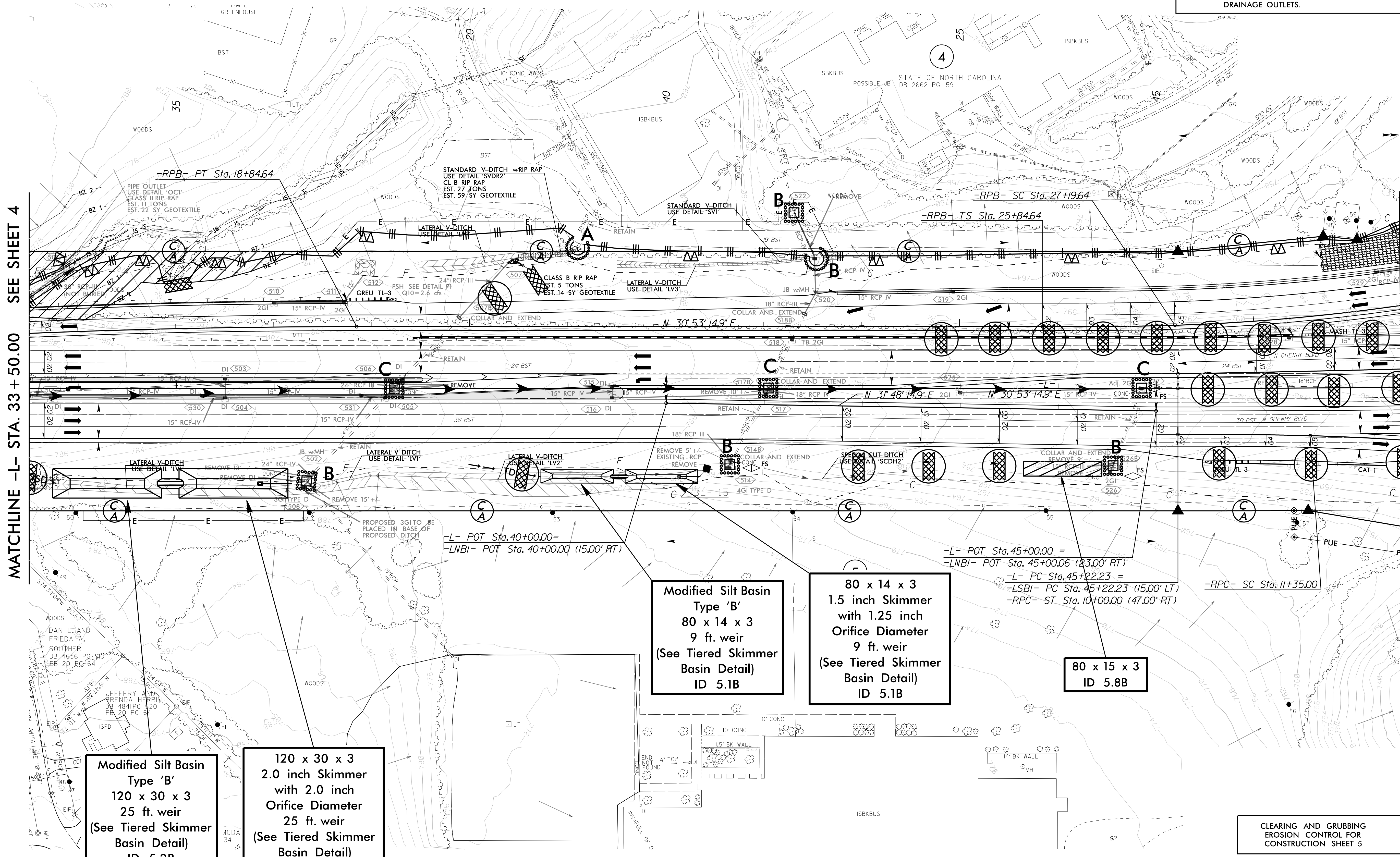
 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



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

MATCHLINE -L- STA. 33+50.00 SEE SHEET 4

MATCHLINE -L- STA. 47+50.00 SEE SHEET 6



**Modified Silt Basin
Type 'B'**
120 x 30 x 3
25 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.2B

120 x 30 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
25 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.2B

**Modified Silt Basin
Type 'B'**
80 x 14 x 3
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.1B

**80 x 14 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.1B**

**80 x 15 x 3
ID 5.8B**

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

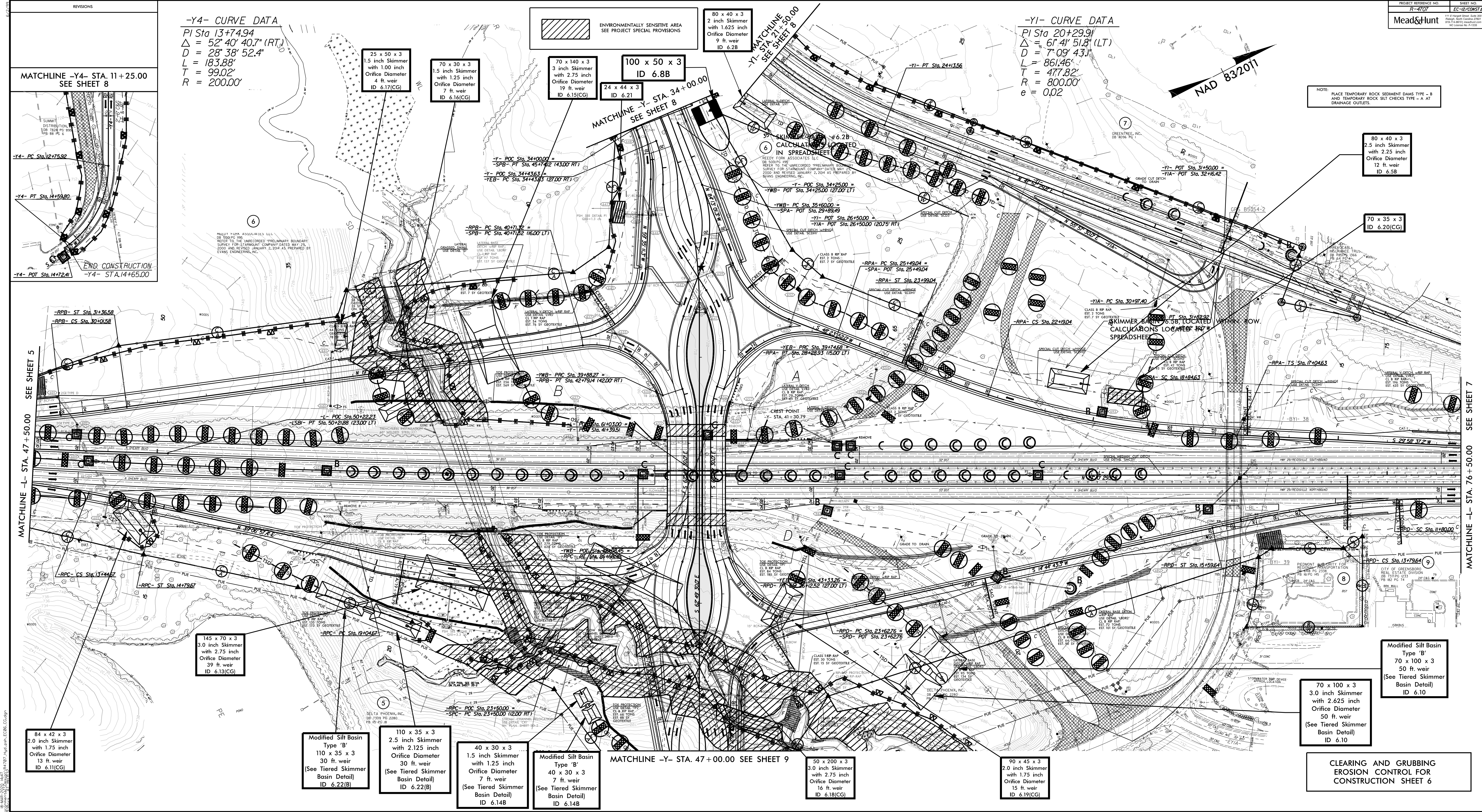
REVISIONS

-Y4- CURVE DATA
 PI Sta 13+74.94
 $\Delta = 52^\circ 40' 40.7" (RT)$
 $D = 28^\circ 38' 52.4"$
 $L = 183.88'$
 $T = 99.02'$
 $R = 200.00'$

MATCHLINE -Y4- STA. 11+25.00
 SEE SHEET 8

END CONSTRUCTION
 -Y4- STA. 14+65.00

-Y1- CURVE DATA
 PI Sta 20+29.9/
 $\Delta = 61^\circ 41' 51.8" (LT)$
 $D = 7^\circ 09' 43.1"$
 $L = 861.46'$
 $T = 477.82'$
 $R = 800.00'$
 $e = 0.02$



84 x 42 x 3
 2.0 inch Skimmer
 with 1.75 inch
 Orifice Diameter
 13 ft. weir
 ID 6.11(CG)

Modified Silt Basin
 Type 'B'
 110 x 35 x 3
 30 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.22(B)

110 x 35 x 3
 2.5 inch Skimmer
 with 2.125 inch
 Orifice Diameter
 30 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.22(B)

40 x 30 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 7 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.14(B)

Modified Silt Basin
 Type 'B'
 40 x 30 x 3
 7 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.14(B)

50 x 200 x 3
 3.0 inch Skimmer
 with 2.75 inch
 Orifice Diameter
 15 ft. weir
 ID 6.18(CG)

90 x 45 x 3
 2.0 inch Skimmer
 with 1.75 inch
 Orifice Diameter
 15 ft. weir
 ID 6.19(CG)

70 x 100 x 3
 3.0 inch Skimmer
 with 2.625 inch
 Orifice Diameter
 50 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.10

Modified Silt Basin
 Type 'B'
 70 x 100 x 3
 50 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.10

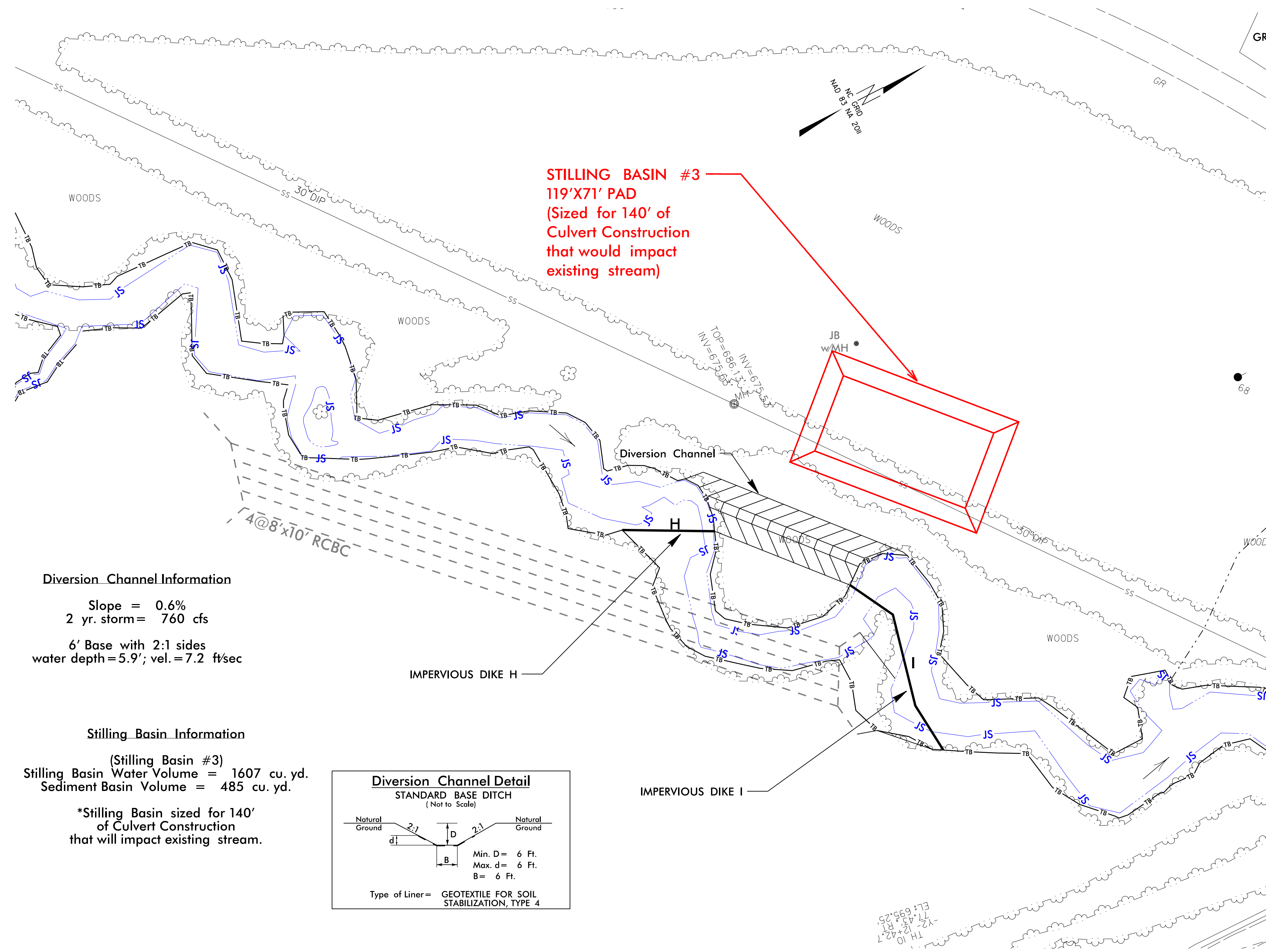
CLEARING AND GRUBBING
EROSION CONTROL
FOR CONSTRUCTION SHEET 6

PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6B/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 46+08 -Y-

PHASE I

1. Construct Stilling Basin #3, Diversion Channel, and Impervious Dikes H and I.
 2. Pump Effluent into Stillina basin and divert flow to Diversion Channel.
- Note: Upstream Diversion into existing stream in place from construction of previous culvert.



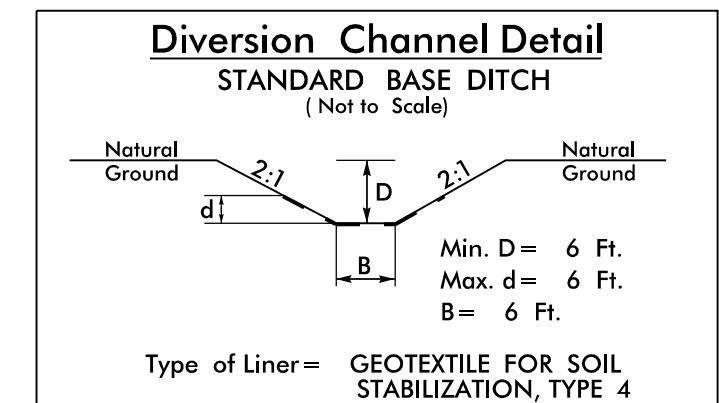
Diversion Channel Information

Slope = 0.6%
 2 yr. storm = 760 cfs
 6' Base with 2:1 sides
 water depth = 5.9'; vel. = 7.2 ft/sec

Stilling Basin Information

(Stilling Basin #3)
 Stilling Basin Water Volume = 1607 cu. yd.
 Sediment Basin Volume = 485 cu. yd.

*Stilling Basin sized for 140' of Culvert Construction that will impact existing stream.



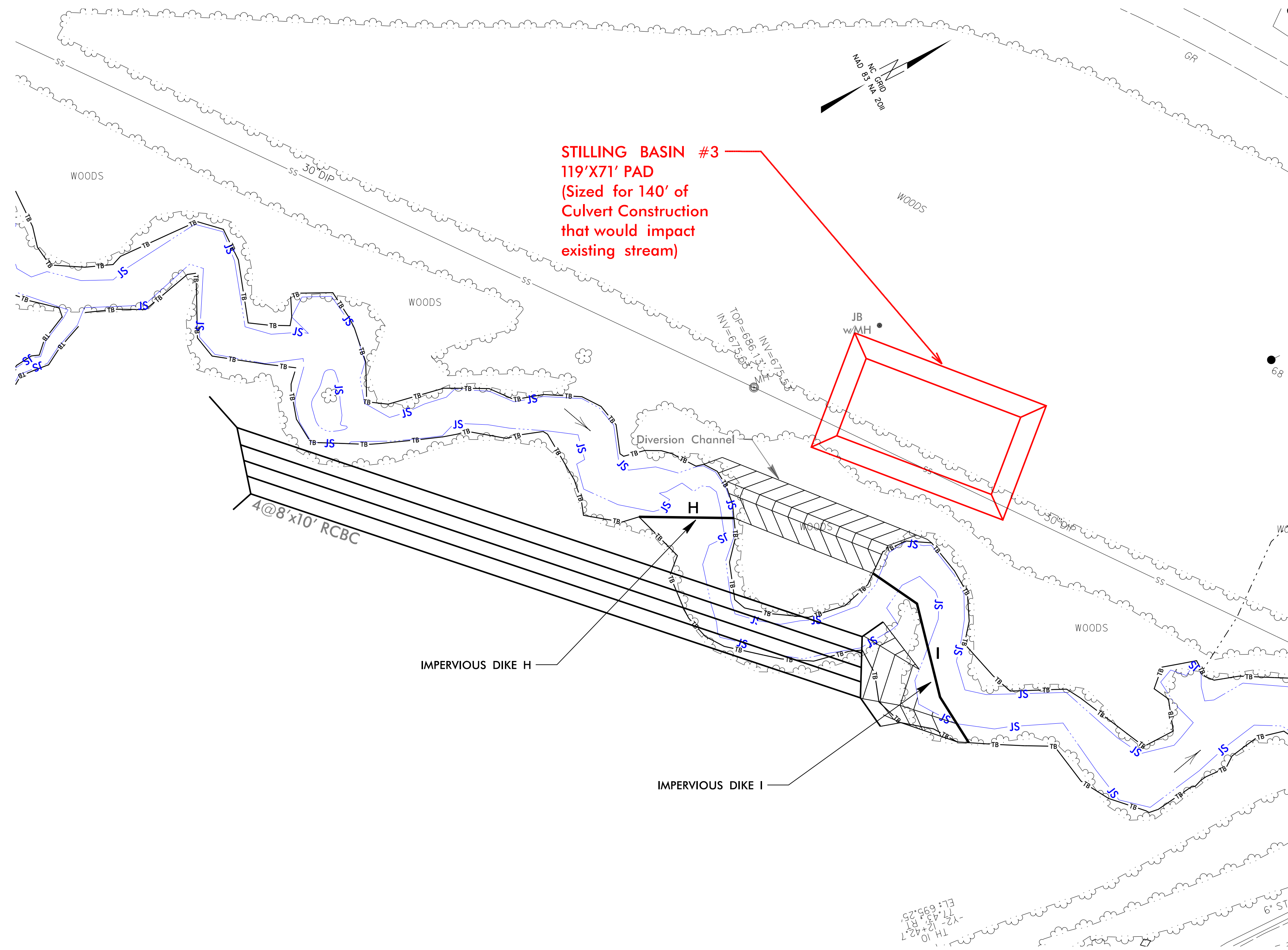
TH 10
 12-12-02
 12-12-02
 12-12-02

PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6D/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 46+08 -Y-

PHASE II

1. Construct Proposed Culvert
2. Complete Channel Realignment work at downstream end of Proposed Culvert.



PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6E/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

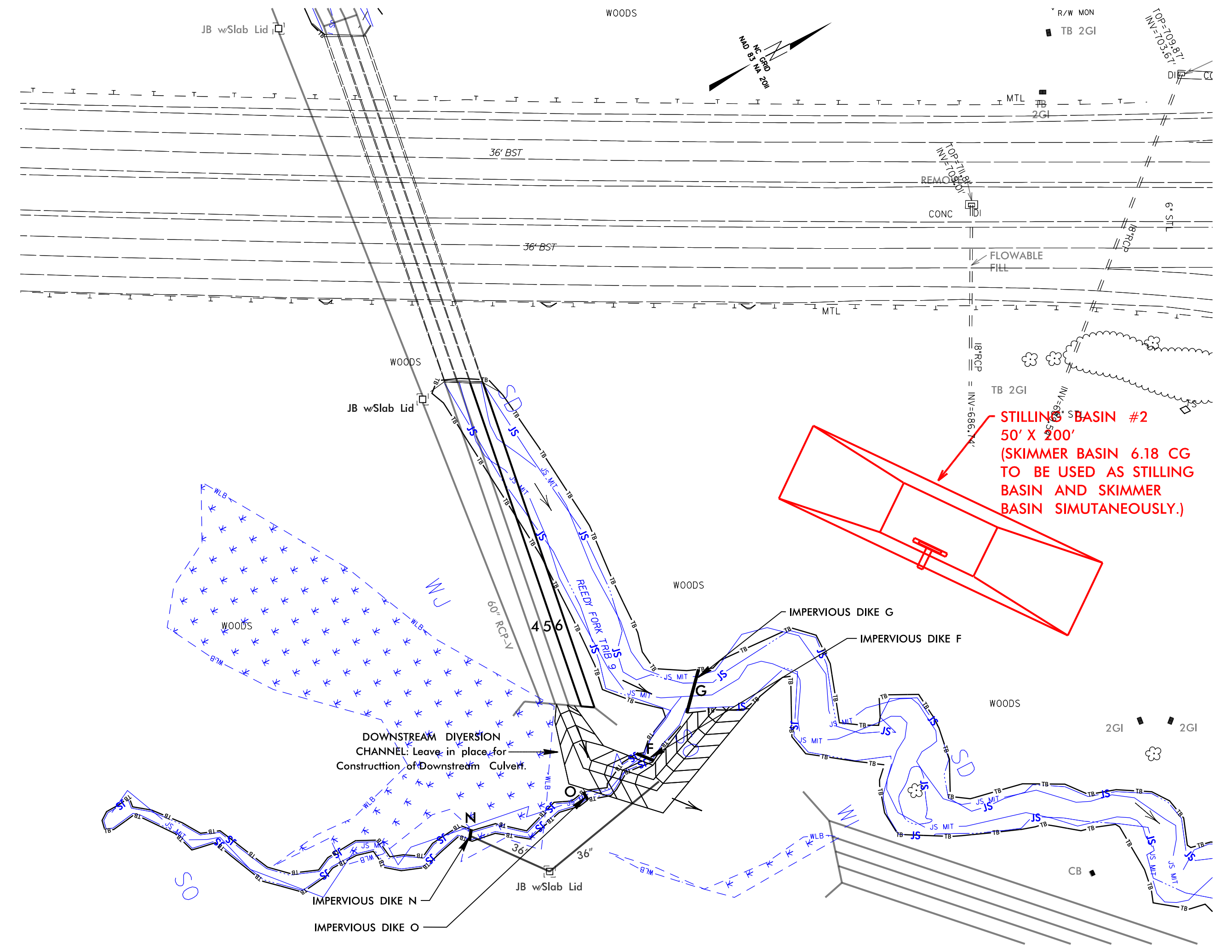
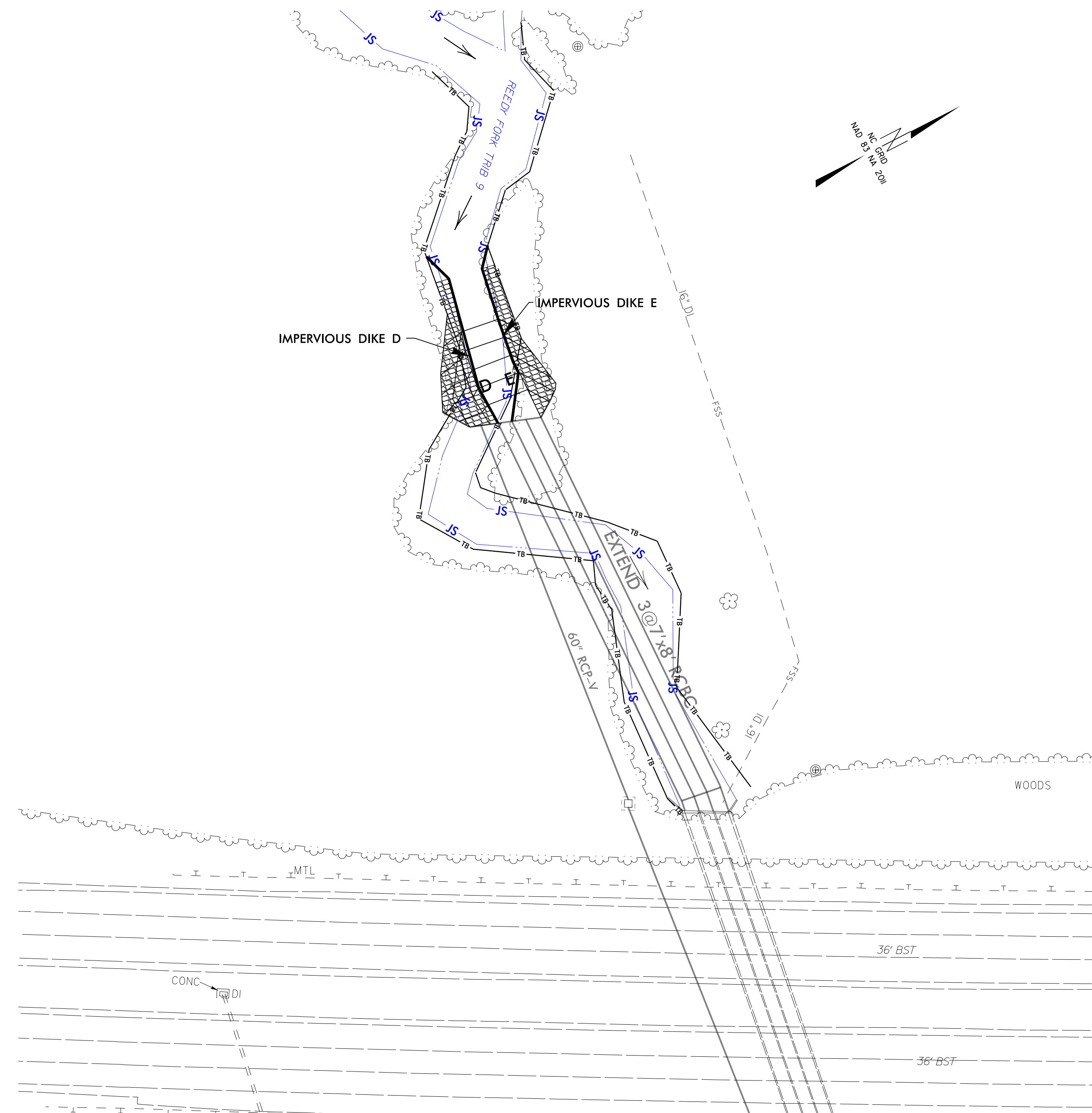
CULVERT CONSTRUCTION SEQUENCE STA. 56+34.9 -L-

PHASE III Upstream

1. Impervious Dikes D and E are to remain in place to maintain diversion during Construction of Downstream Culvert beneath -Y-.
2. Stilling Basin #1 to remain in place as Skimmer Basin 6.15(CG) until completion of clearing & grubbing phase.
3. Complete upstream realignment channel improvements with Rip-Rap.

PHASE III Downstream

1. Downstream Diversion Channel to remain in place to divert flow for construction of downstream culvert and realignment channel.
2. Stilling Basin #2 is to remain in place as skimmer basin 6.18 CG for clearing and grubbing phase, construction of downstream culvert, and realignment channel.

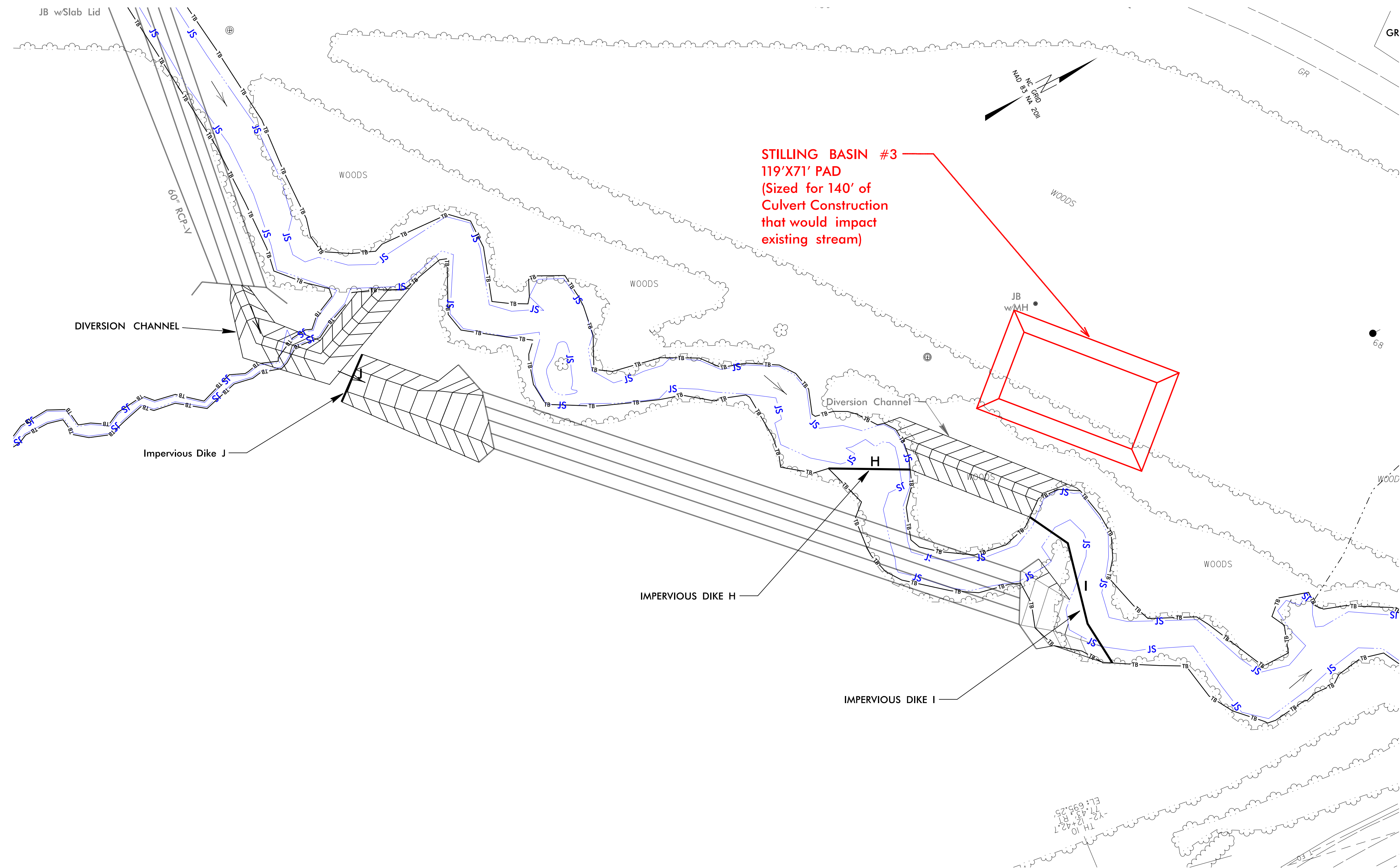


PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6F/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 46+08 -Y-

PHASE III

1. Install impervious Dike J.
2. Construct Downstream portion of Stream Realignment Channel between culverts.



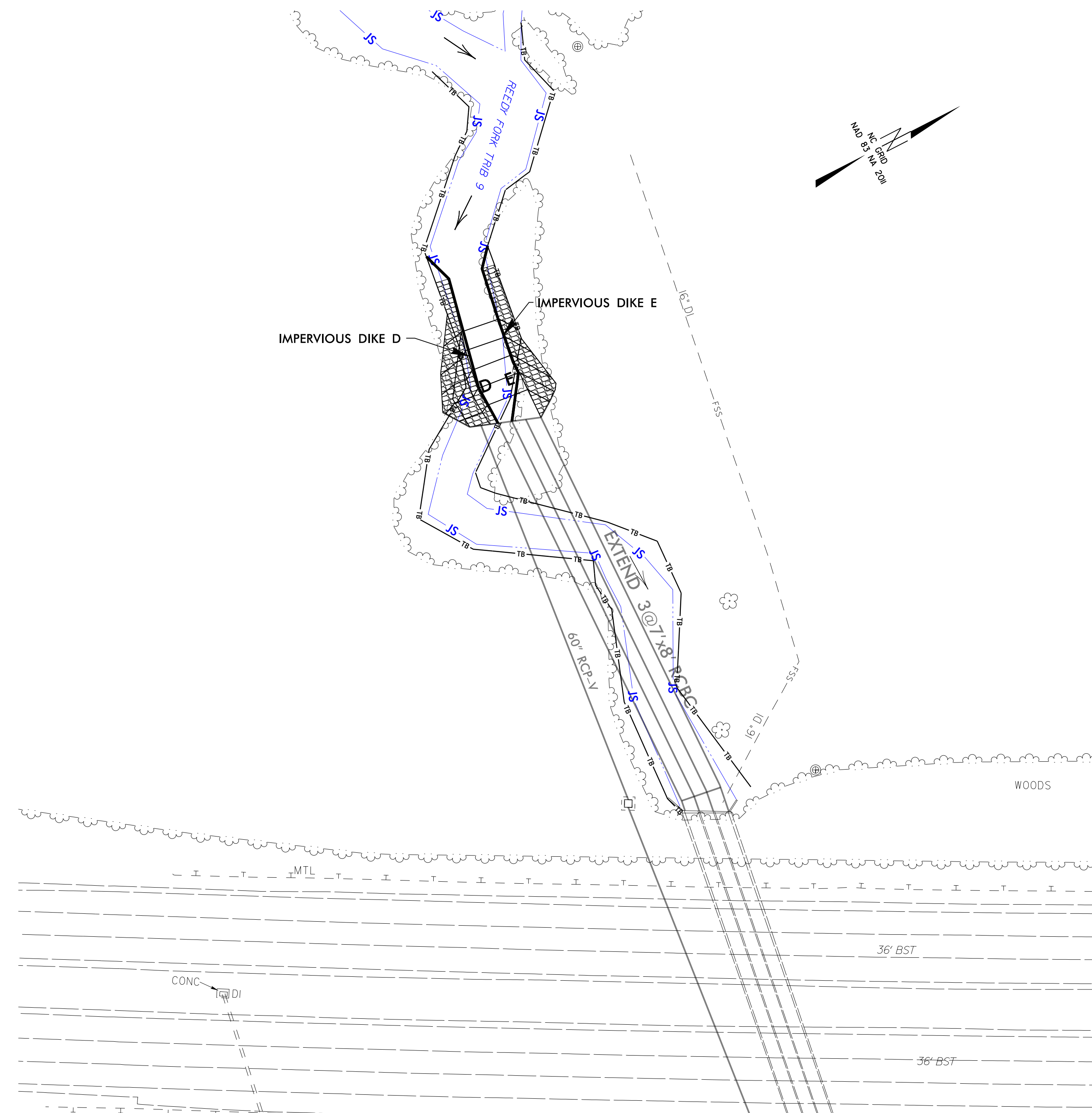
TH 10
 Y2 12+42.7
 EL: 695.25

PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-66/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 56+34.9 -L-

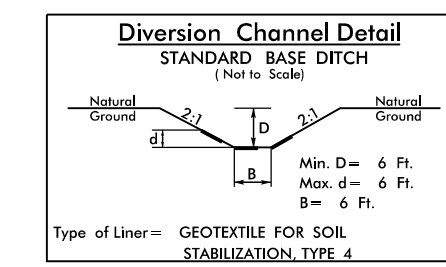
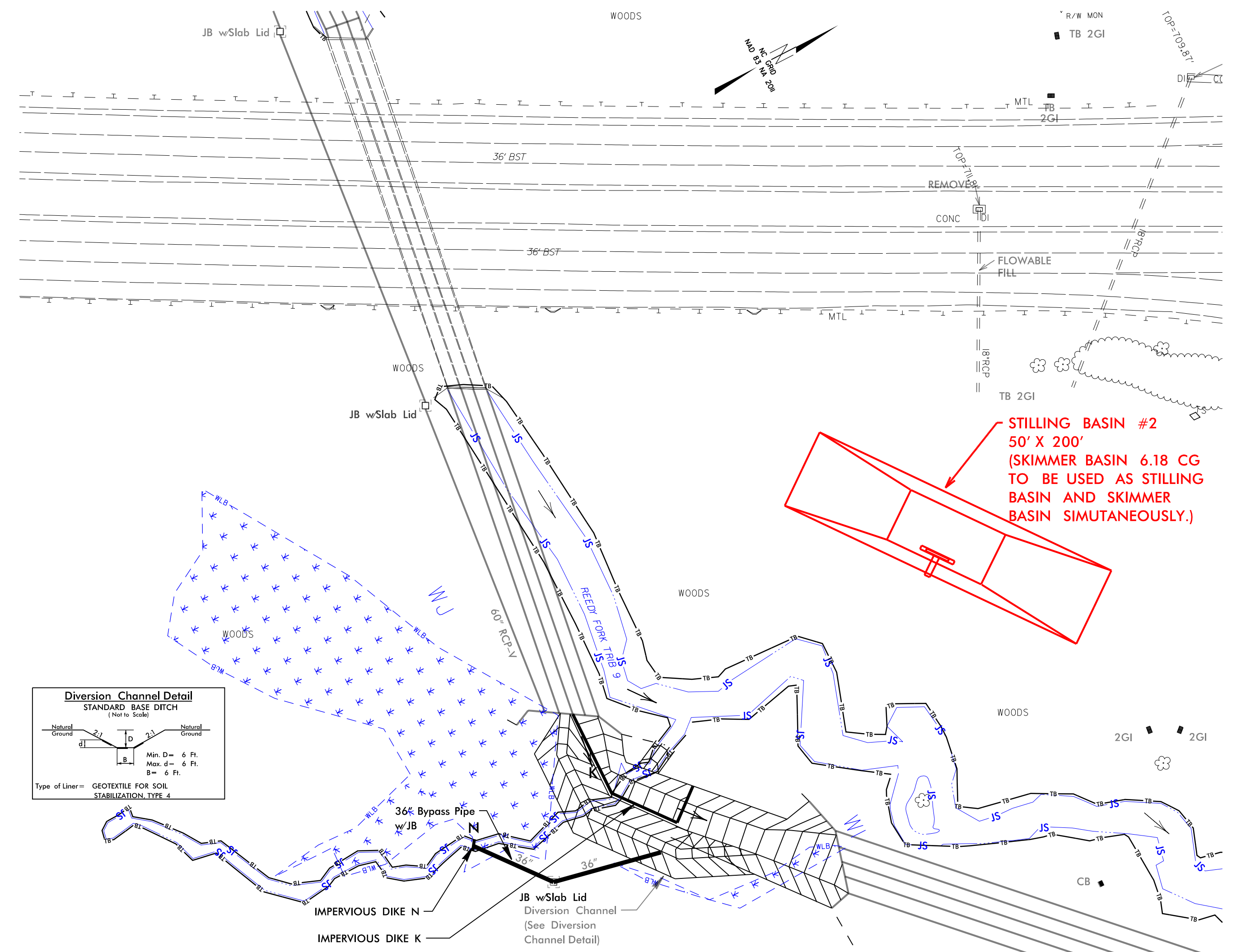
PHASE IV Upstream

1. Keep Impervious Dikes D and E in place during Phase IV and Phase V for downstream diversion channel.



PHASE IV Downstream

1. Remove Impervious Dikes F,G, and O, Reconfigure Diversion Channel from southern barrel to downstream portion of Stream Realignment Channel, and Install Impervious DiKE K.
2. Reconfigure Temporary Pipe for tributary drainage to new Diversion Channel
3. Construct Upstream northern portion of Stream Realignment Channel.



STILLING BASIN #2
50' X 200'
(SKIMMER BASIN 6.18 CG TO BE USED AS STILLING BASIN AND SKIMMER BASIN SIMULTANEOUSLY.)

PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-61/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

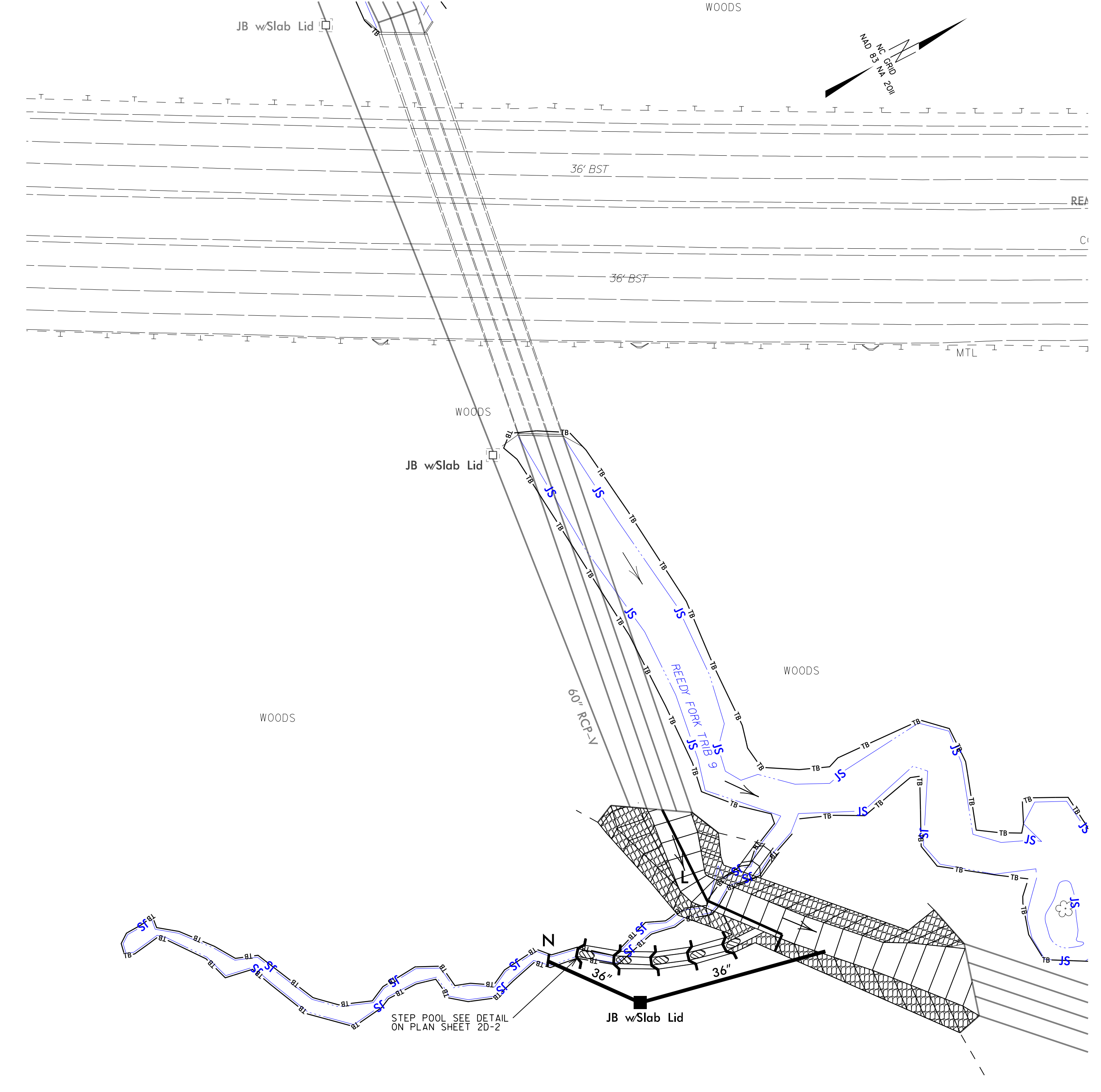
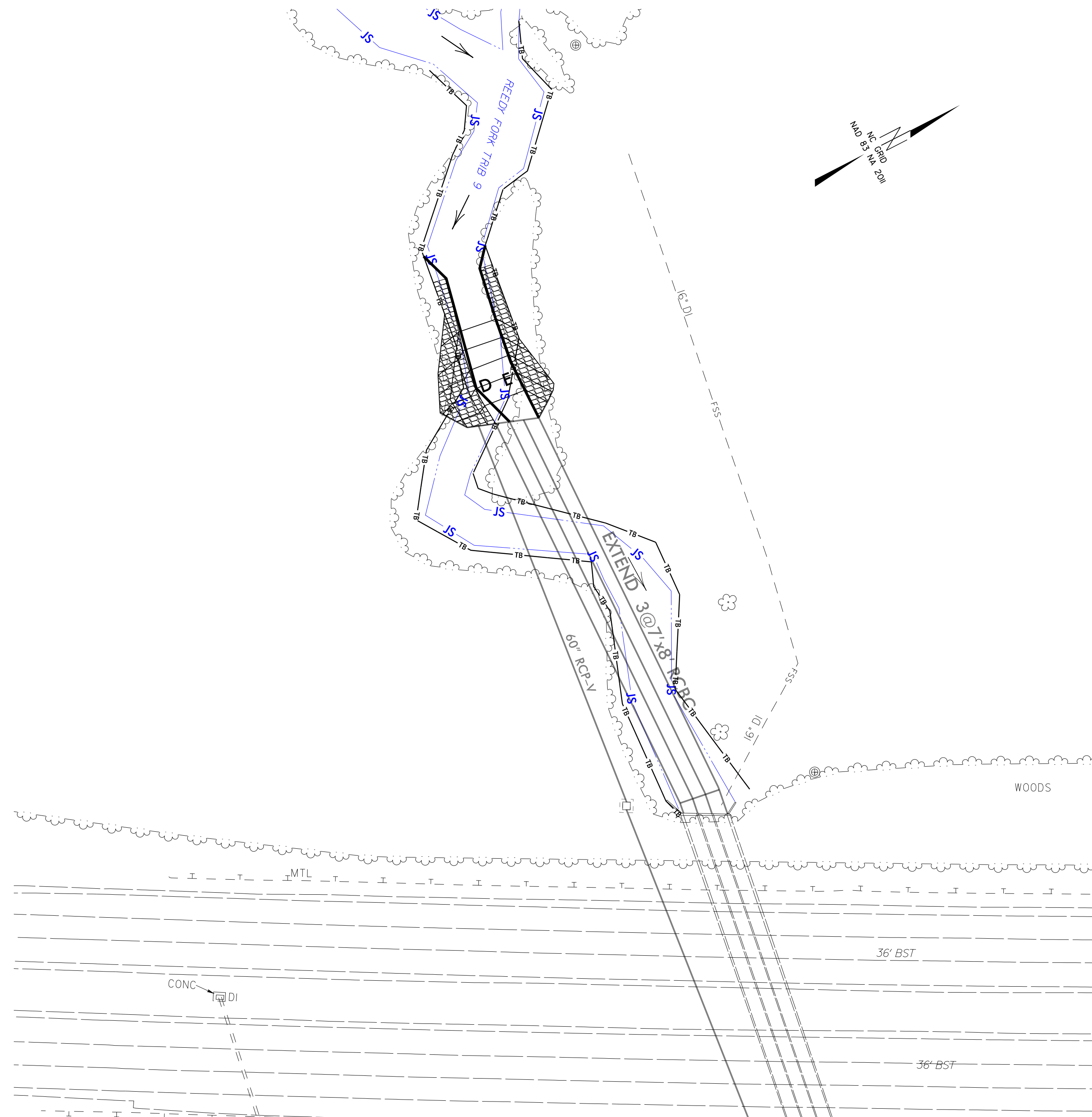
CULVERT CONSTRUCTION SEQUENCE STA. 56+34.9 -L-

PHASE V Upstream

1. Reconfigure Impervious Dikes D and E to divert flow to center and northernmost culvert barrels.

PHASE V Downstream

1. Install Dike L to divert flow to northern portion of stream realignment channel.
2. Remove Diversion Channel between culverts and extend bypass pipe to stream realignment channel.
3. Construct southern upstream portion of stream alignment channel and step pool.
4. Stilling Basin #2 to remain in place as Skimmer Basin 6.18(CG) until completion of clearing and grubbing phase, construction of downstream culvert, and stream realignment channel.

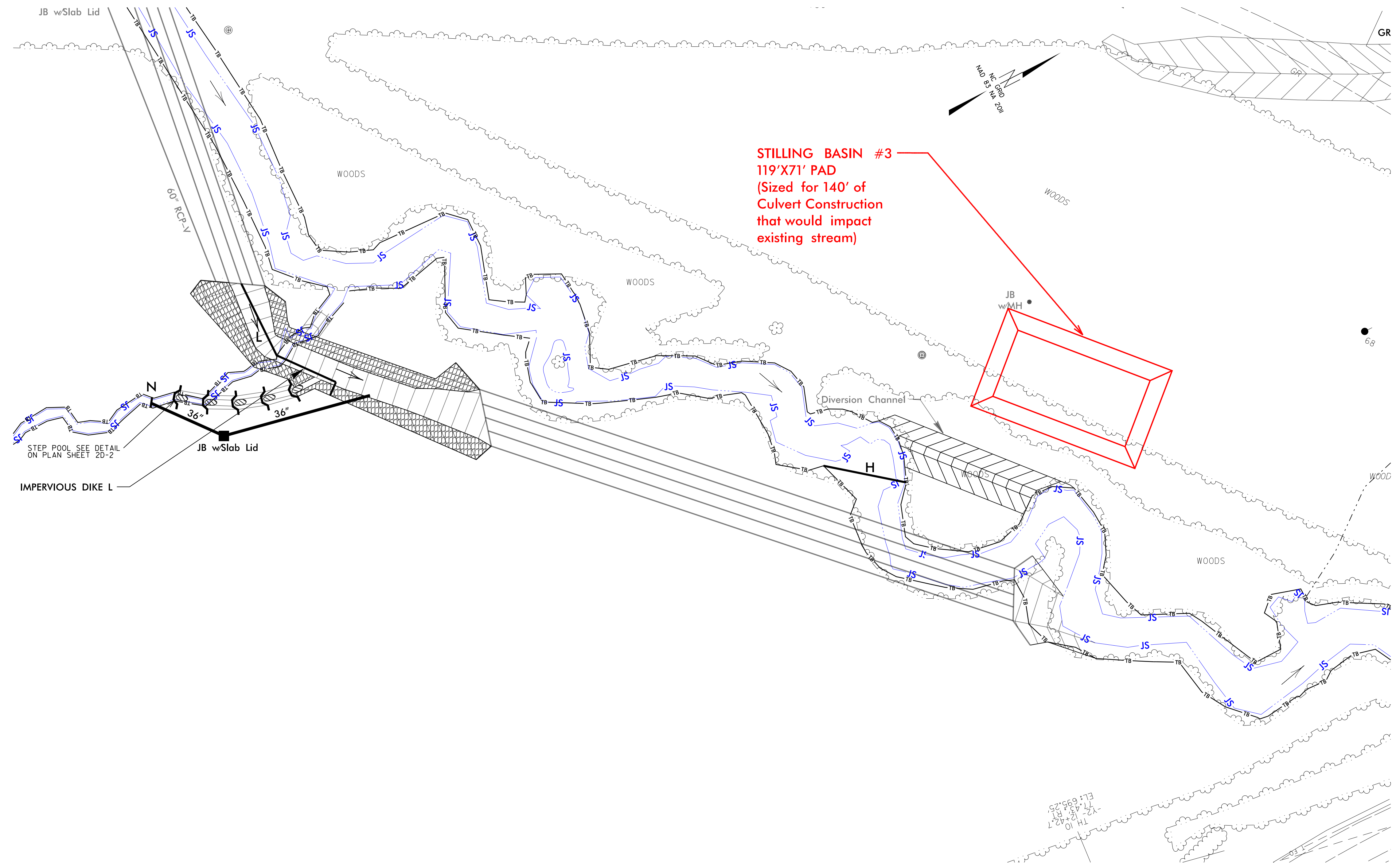


PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6J/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 46+08 -Y-

PHASE V

1. Stream Alignment between culverts construction steps covered in PHASE V DOWNSTREAM OF CULVERT SEQUENCE STA. 56+34.9 -L- on Sheet EC-6I

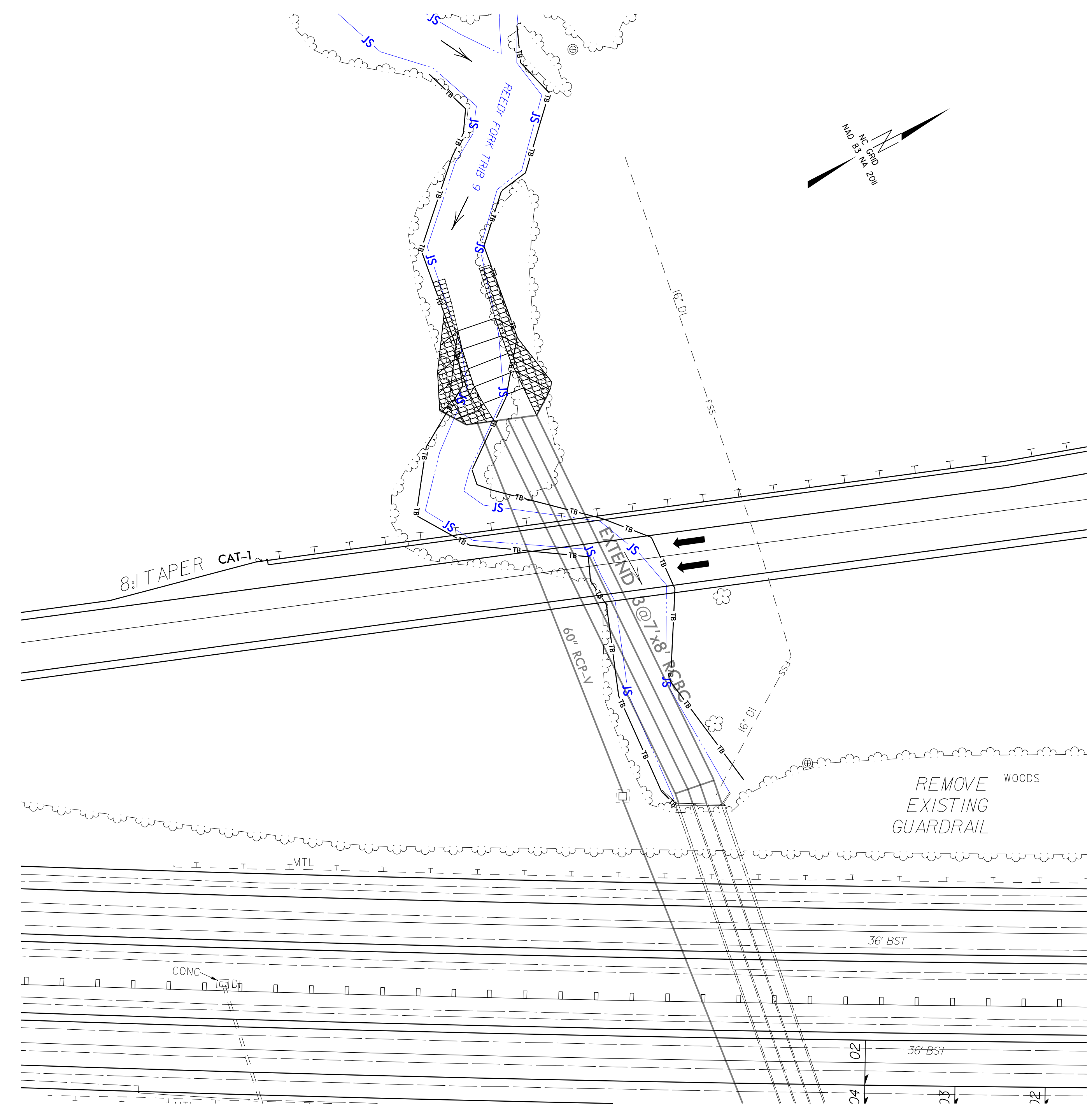


PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6K/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 56+34.9 -L-

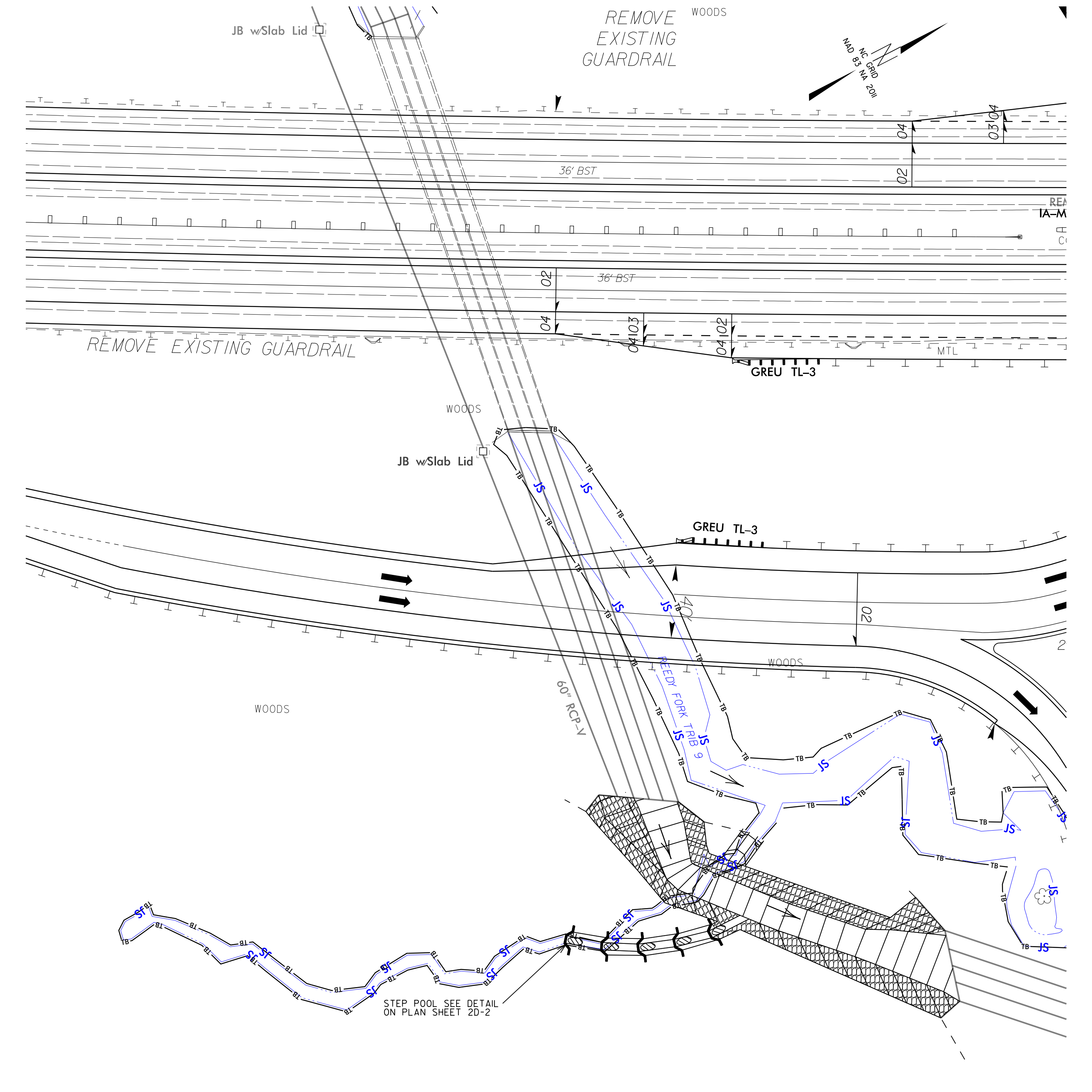
PHASE VI Upstream

1. Remove Impervious Dikes D and E
2. Build Roadway



PHASE VI Downstream

1. Remove all Impervious Dikes, Temporary Pipes, and Diversions Channels
2. Build Roadway

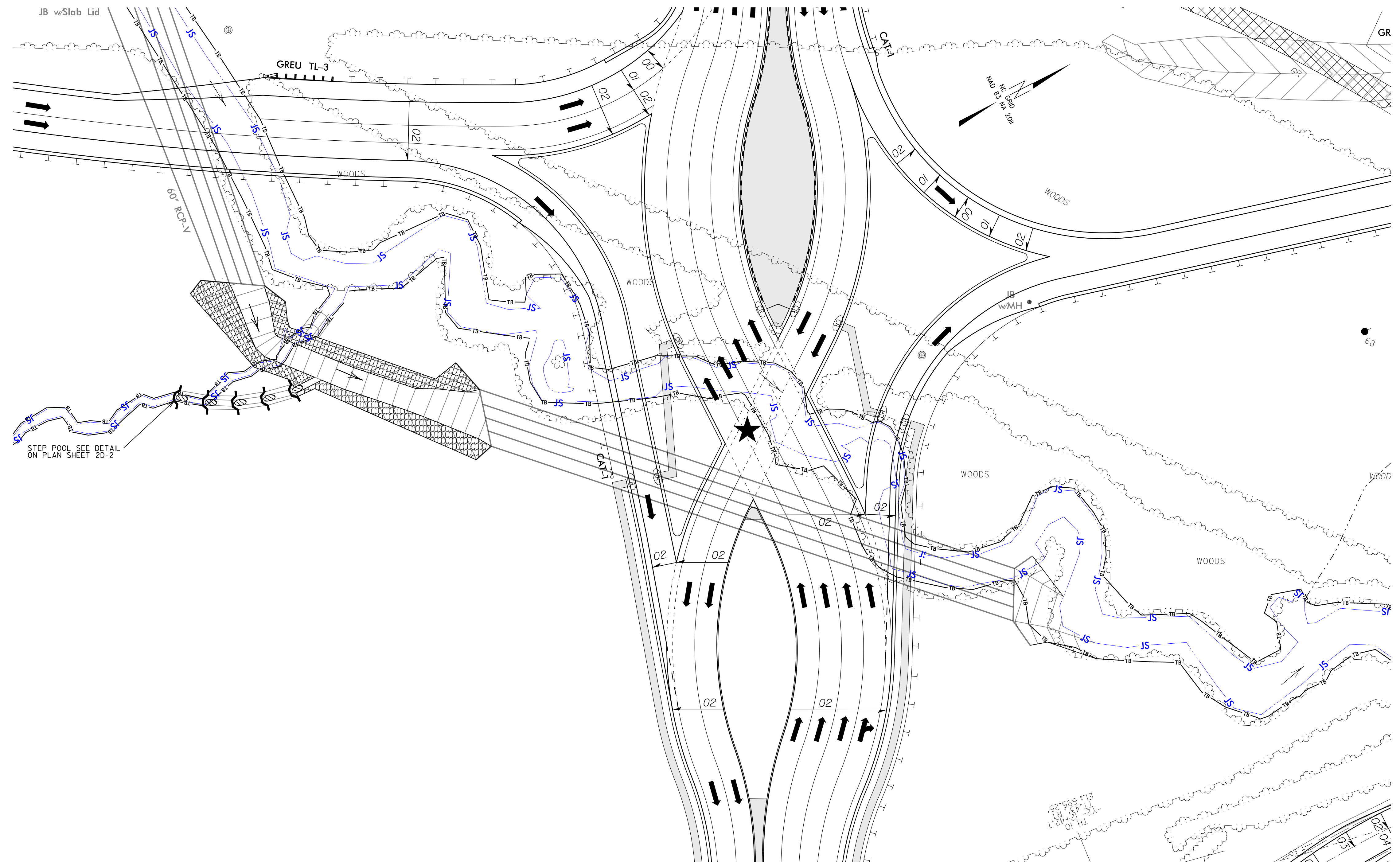


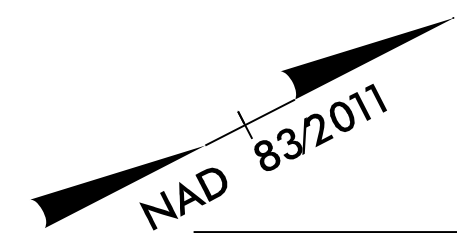
PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6L/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 46+08 -Y-

PHASE VI

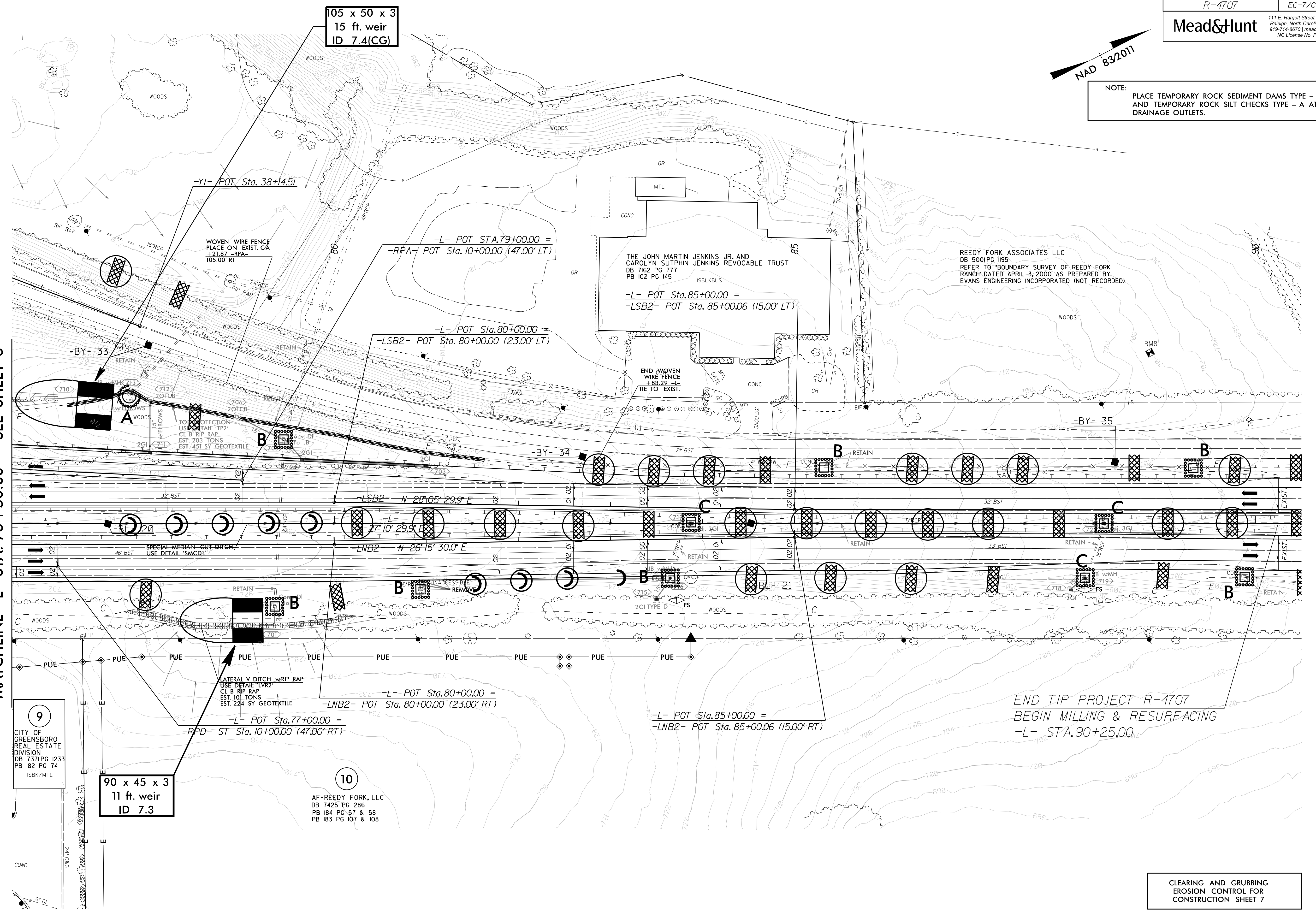
1. Remove all Impervious dikes, temporary pipes, and diversion channels
2. Remove all Stilling Basins after Culvert Construction and Clearing and Grubbing phase.
3. Construct Roadway.





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

MATCHLINE -L- STA. 76+50.00 SEE SHEET 6



105 x 50 x 3
15 ft. weir
ID 7.4(CG)

90 x 45 x 3
11 ft. weir
ID 7.3

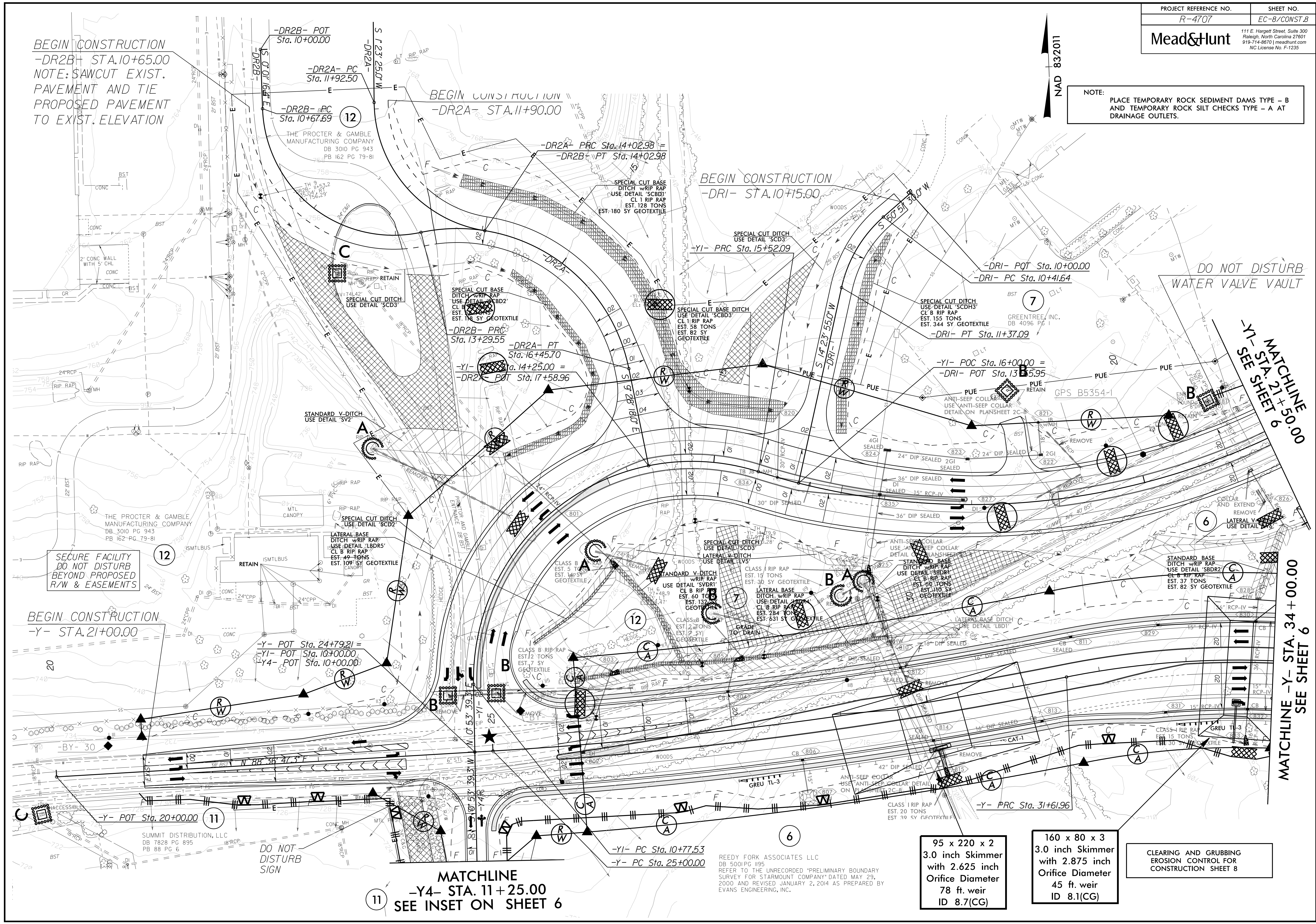
10
AF-REEDY FORK, LLC
DB 7425 PG 286
PB 184 PG 57 & 58
PB 183 PG 107 & 108

9
CITY OF GREENSBORO
REAL ESTATE
DIVISION
DB 7371 PG 1233
PB 182 PG 74
ISBK/MTL

END TIP PROJECT R-4707
BEGIN MILLING & RESURFACING
-L- STA. 90+25.00

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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



BEGIN CONSTRUCTION
 -DR2B+ STA.10+65.00
 NOTE: SAWCUT EXIST.
 PAVEMENT AND TIE
 PROPOSED PAVEMENT
 TO EXIST. ELEVATION

BEGIN CONSTRUCTION
 -DR2A- STA.11+90.00

BEGIN CONSTRUCTION
 -DRI- STA.10+15.00

DO NOT DISTURB
 WATER VALVE VAULT

SECURE FACILITY
 DO NOT DISTURB
 BEYOND PROPOSED
 R/W & EASEMENTS

BEGIN CONSTRUCTION
 -Y- STA.21+00.00

-Y- POT Sta. 24+79.21 =
 -Y1- POT Sta. 10+00.00
 -Y4- POT Sta. 10+00.00

DO NOT
 DISTURB
 SIGN

MATCHLINE
 -Y4- STA. 11+25.00
 SEE INSET ON SHEET 6

MATCHLINE
 -Y1- STA. 21+50.00
 SEE SHEET 6

MATCHLINE -Y- STA. 34+00.00
 SEE SHEET 6

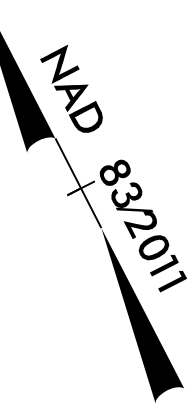
95 x 220 x 2
 3.0 inch Skimmer
 with 2.625 inch
 Orifice Diameter
 78 ft. weir
 ID 8.7(CG)

160 x 80 x 3
 3.0 inch Skimmer
 with 2.875 inch
 Orifice Diameter
 45 ft. weir
 ID 8.1(CG)

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 8

REEDY FORK ASSOCIATES LLC
 DB 5001PG 1195
 REFER TO THE UNRECORDED "PRELIMINARY BOUNDARY
 SURVEY FOR STARMOUNT COMPANY" DATED MAY 29,
 2000 AND REVISED JANUARY 2, 2014 AS PREPARED BY
 EVANS ENGINEERING, INC.

NAD 83/2011



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

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

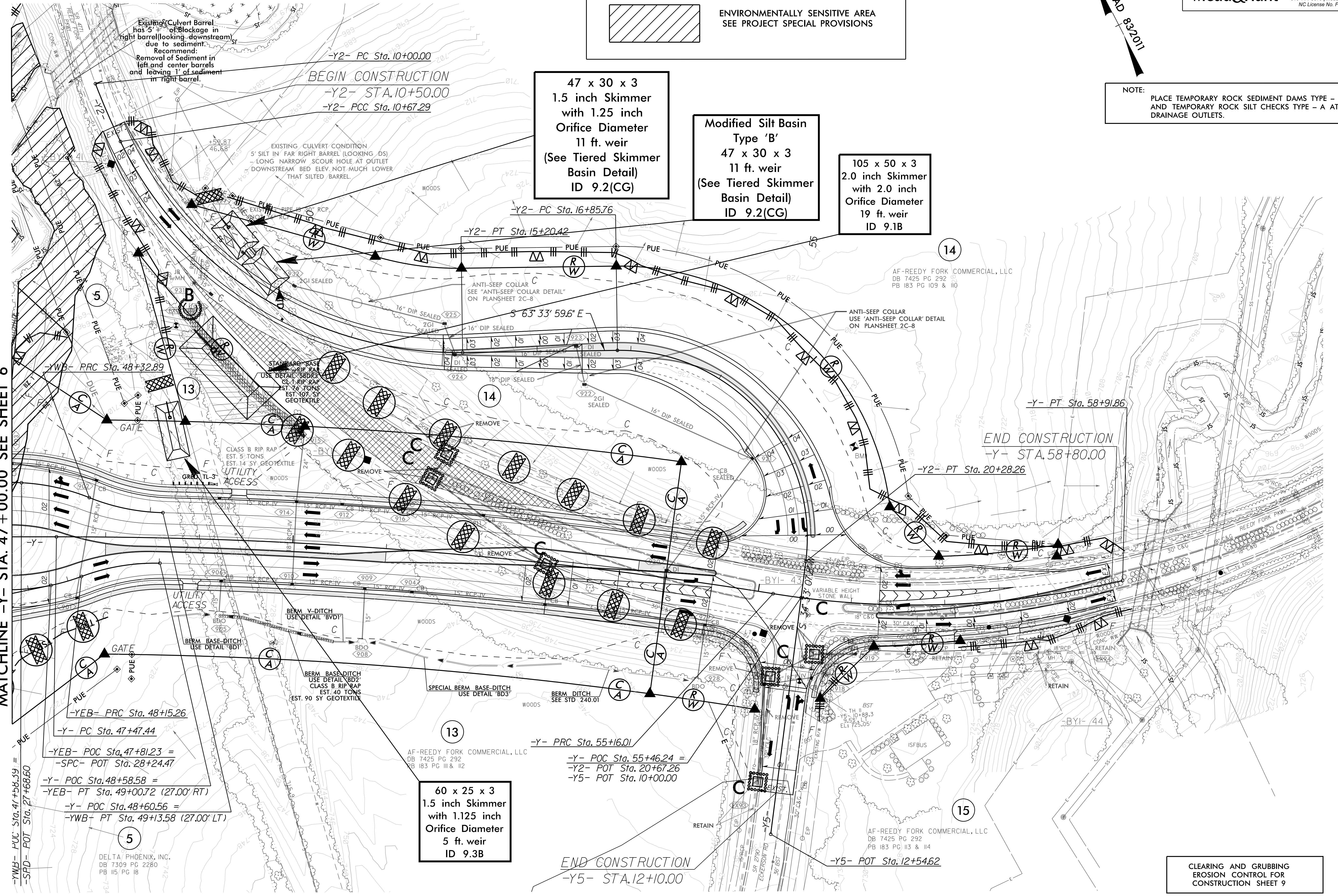
47 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 9.2(CG)

Modified Silt Basin
Type 'B'
47 x 30 x 3
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 9.2(CG)

105 x 50 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
19 ft. weir
ID 9.1B

60 x 25 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
5 ft. weir
ID 9.3B

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

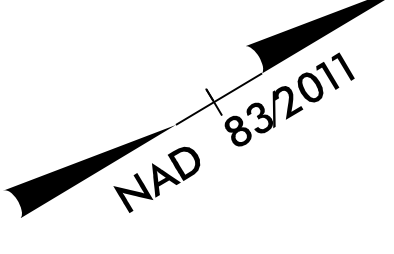


-YWB- PUC Sta. 47+58.59 =
 -SPD- POT Sta. 27+68.60
 -YEB- PRC Sta. 48+32.89
 -Y- PC Sta. 47+47.44
 -YEB- POC Sta. 47+81.23 =
 -SPC- POT Sta. 28+24.47
 -Y- POC Sta. 48+58.58 =
 -YEB- PT Sta. 49+00.72 (27.00' RT)
 -Y- POC Sta. 48+60.56 =
 -YWB- PT Sta. 49+13.58 (27.00' LT)

-Y- PRC Sta. 55+16.01
 -Y- POC Sta. 55+46.24 =
 -Y2- POT Sta. 20+67.26
 -Y5- POT Sta. 10+00.00

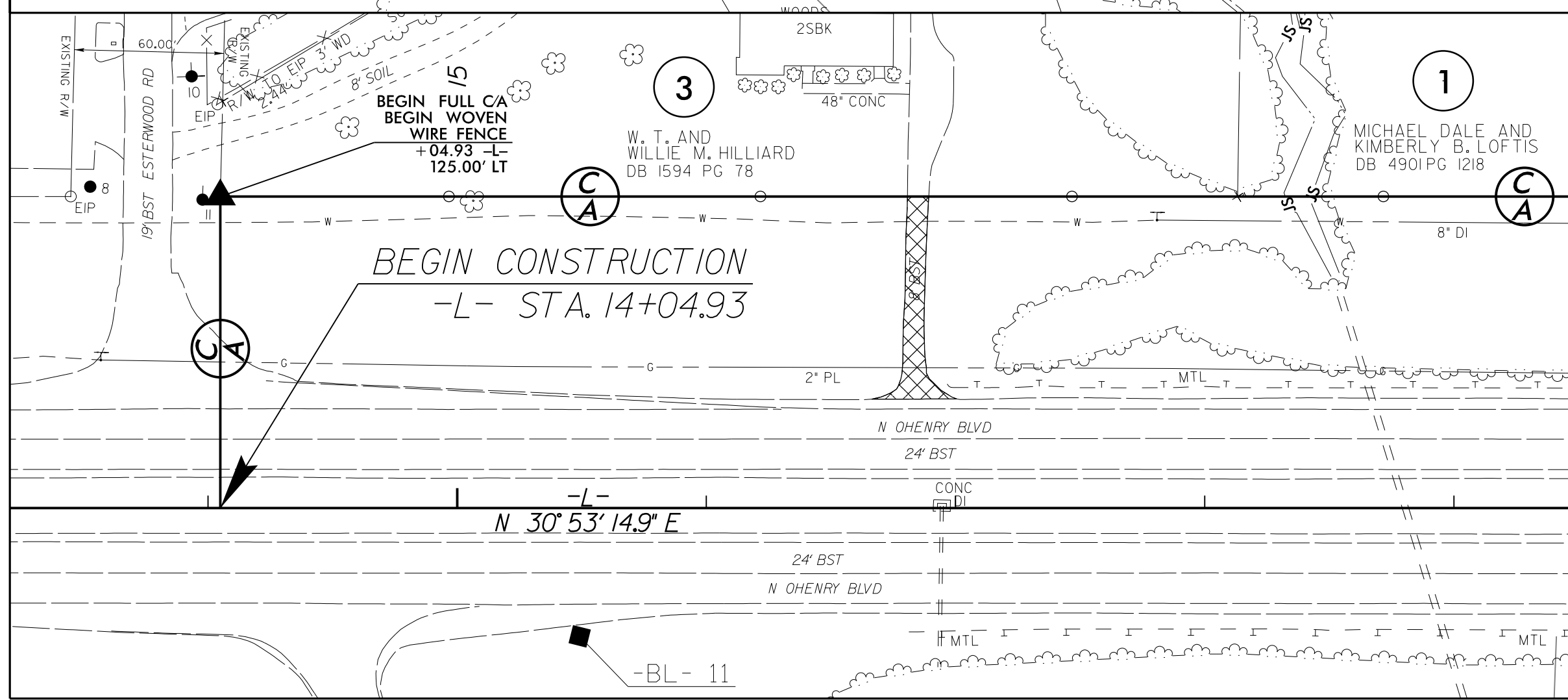
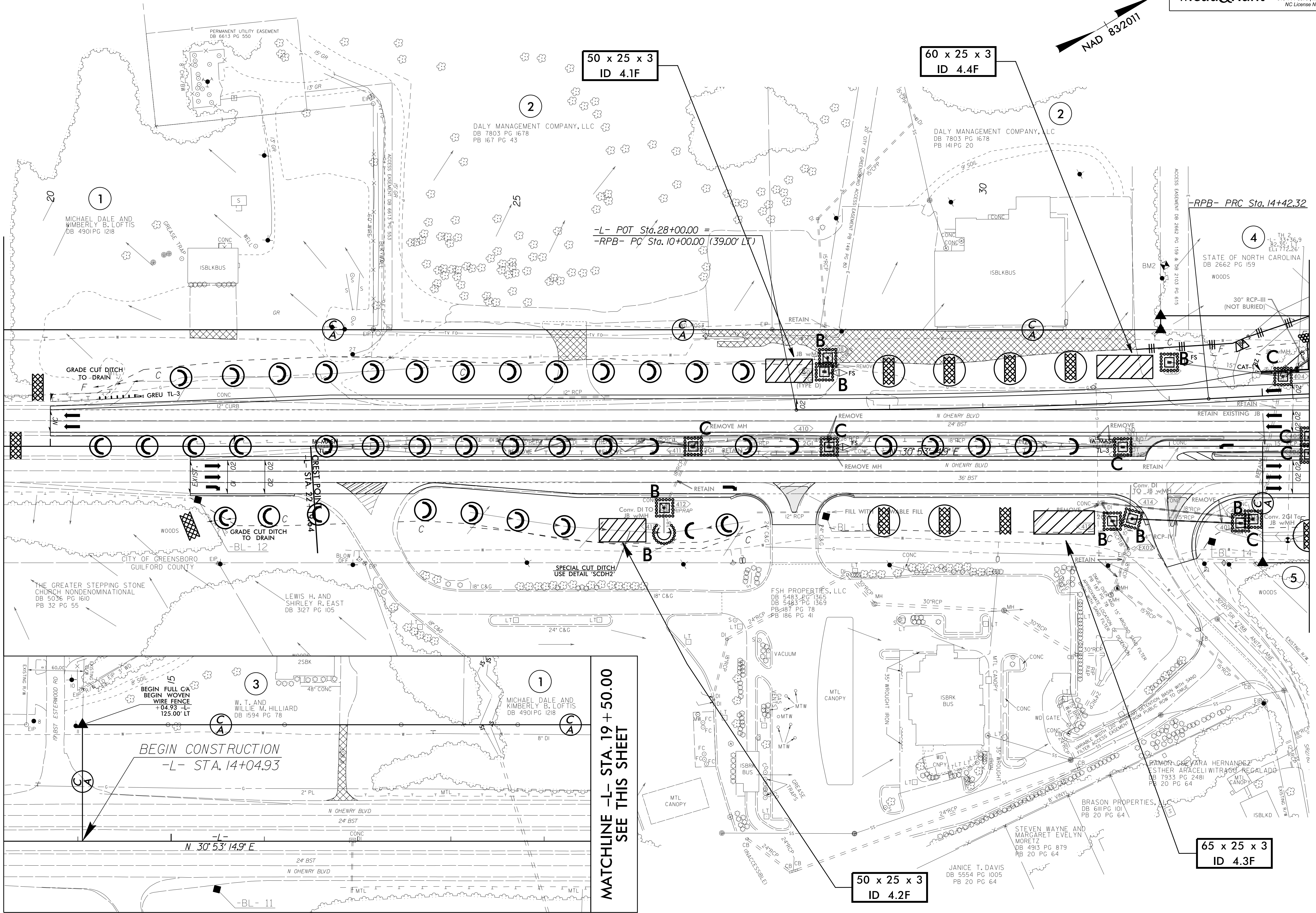
-Y5- POT Sta. 12+54.62

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9



MATCHLINE -L- STA. 19 + 50.00 SEE INSET THIS SHEET

MATCHLINE -L- STA. 33 + 50.00 SEE SHEET 5



MATCHLINE -L- STA. 19 + 50.00 SEE THIS SHEET

50 x 25 x 3
ID 4.1F

60 x 25 x 3
ID 4.4F

65 x 25 x 3
ID 4.3F

50 x 25 x 3
ID 4.2F

DALY MANAGEMENT COMPANY, LLC
DB 7803 PG 1678
PB 167 PG 43

DALY MANAGEMENT COMPANY, LLC
DB 7803 PG 1678
PB 141 PG 20

MICHAEL DALE AND
KIMBERLY B. LOFTIS
DB 4901 PG 1218

STATE OF NORTH CAROLINA
DB 2662 PG 159

THE GREATER STEPPING STONE
CHURCH NONDENOMINATIONAL
DB 5036 PG 1610
PB 32 PG 55

LEWIS H. AND
SHIRLEY R. EAST
DB 3127 PG 105

FSH PROPERTIES, LLC
DB 5483 PG 1365
DB 5483 PG 1369
PB 186 PG 41

RAMON GUEYRA HERNANDEZ
ESTHER ARACELI WITRAGO REGALADO
DB 7933 PG 2481
PB 20 PG 64

BRASON PROPERTIES, LLC
DB 6111 PG 101
PB 20 PG 64

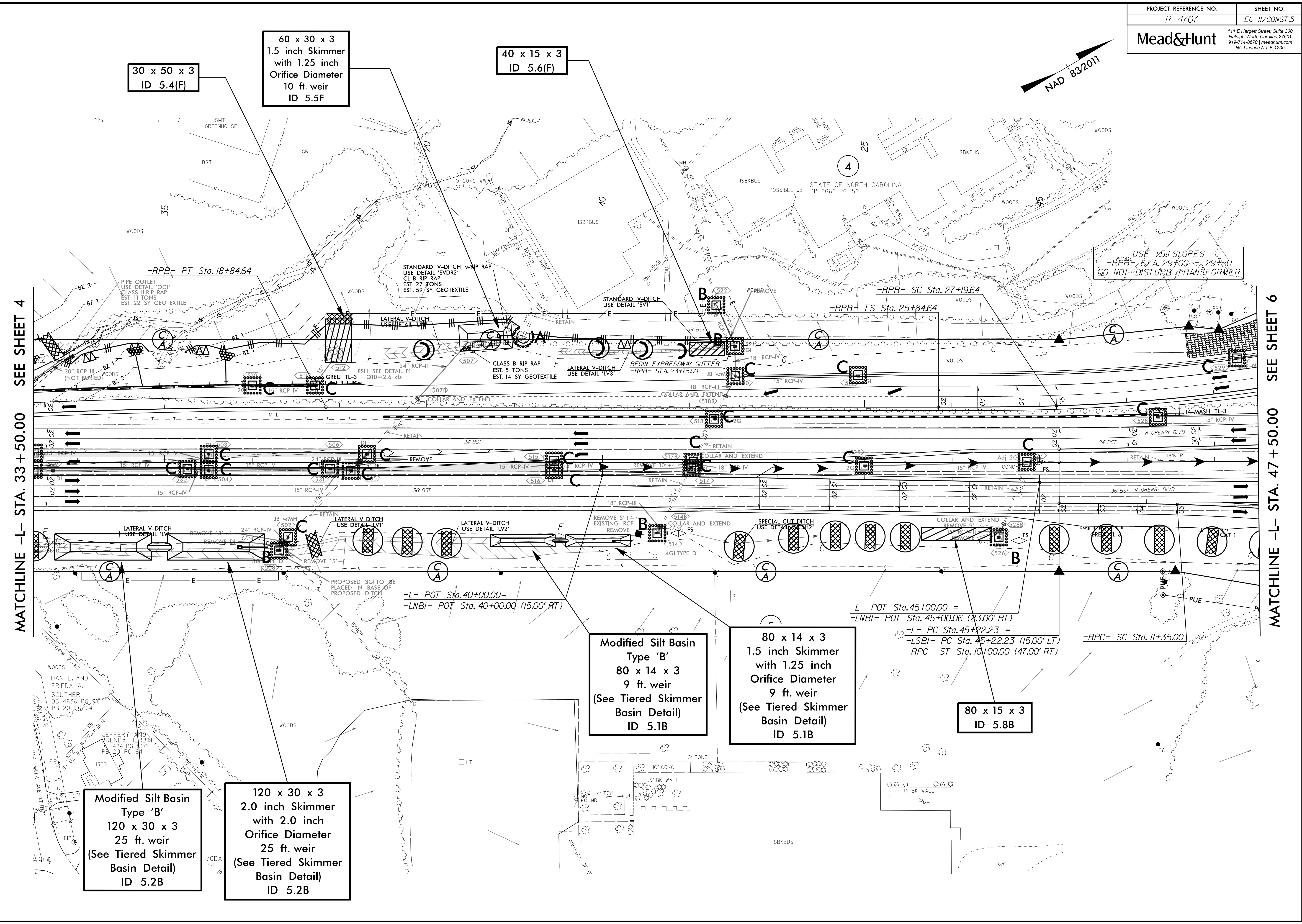
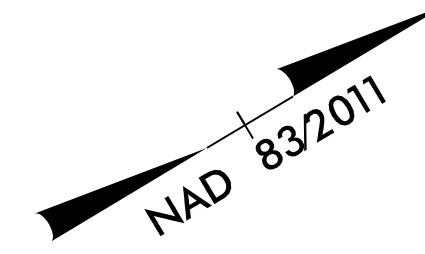
JANICE T. DAVIS
DB 5554 PG 1005
PB 20 PG 64

-L- POT Sta. 28+00.00 =
-RBP- PC Sta. 10+00.00 (39.00' LT)

-RBP- PRC Sta. 14+42.32

BEGIN CONSTRUCTION
-L- STA. 14+04.93

N 30° 53' 14.9" E



30 x 50 x 3
ID 5.4(F)

60 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
10 ft. weir
ID 5.5F

40 x 15 x 3
ID 5.6(F)

USE 1.5:1 SLOPES
-RPB- STA. 29+00 ~ 29+50
DO NOT DISTURB TRANSFORMER

MATCHLINE -L- STA. 33 + 50.00 SEE SHEET 4

MATCHLINE -L- STA. 47 + 50.00 SEE SHEET 6

Modified Silt Basin
Type 'B'
120 x 30 x 3
25 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.2B

120 x 30 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
25 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.2B

Modified Silt Basin
Type 'B'
80 x 14 x 3
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.1B

80 x 14 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.1B

80 x 15 x 3
ID 5.8B

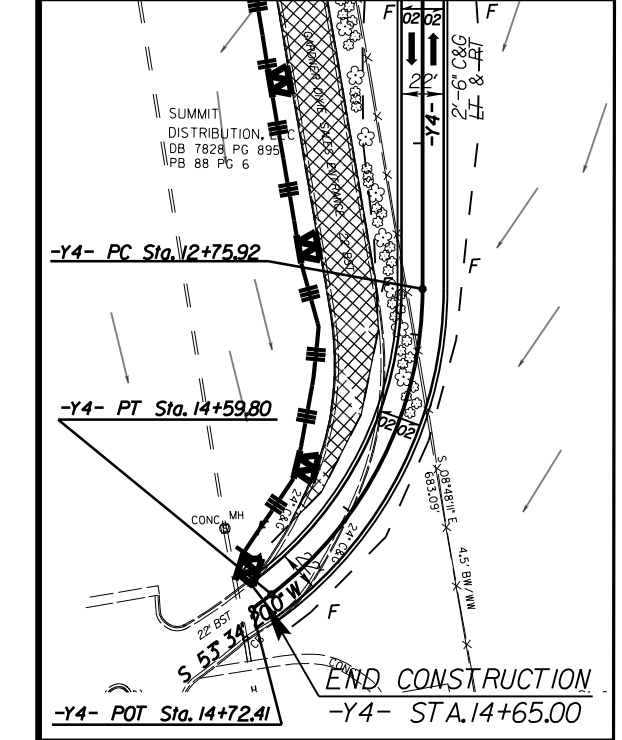
-L- POT Sta. 40+00.00 =
-LNBI- POT Sta. 40+00.00 (15.00' RT)

-L- POT Sta. 45+00.00 =
-LNBI- POT Sta. 45+00.06 (23.00' RT)
-L- PC Sta. 45+22.23 =
-LSBI- PC Sta. 45+22.23 (15.00' LT)
-RPC- ST Sta. 10+00.00 (47.00' RT)

-RPC- SC Sta. 11+35.00

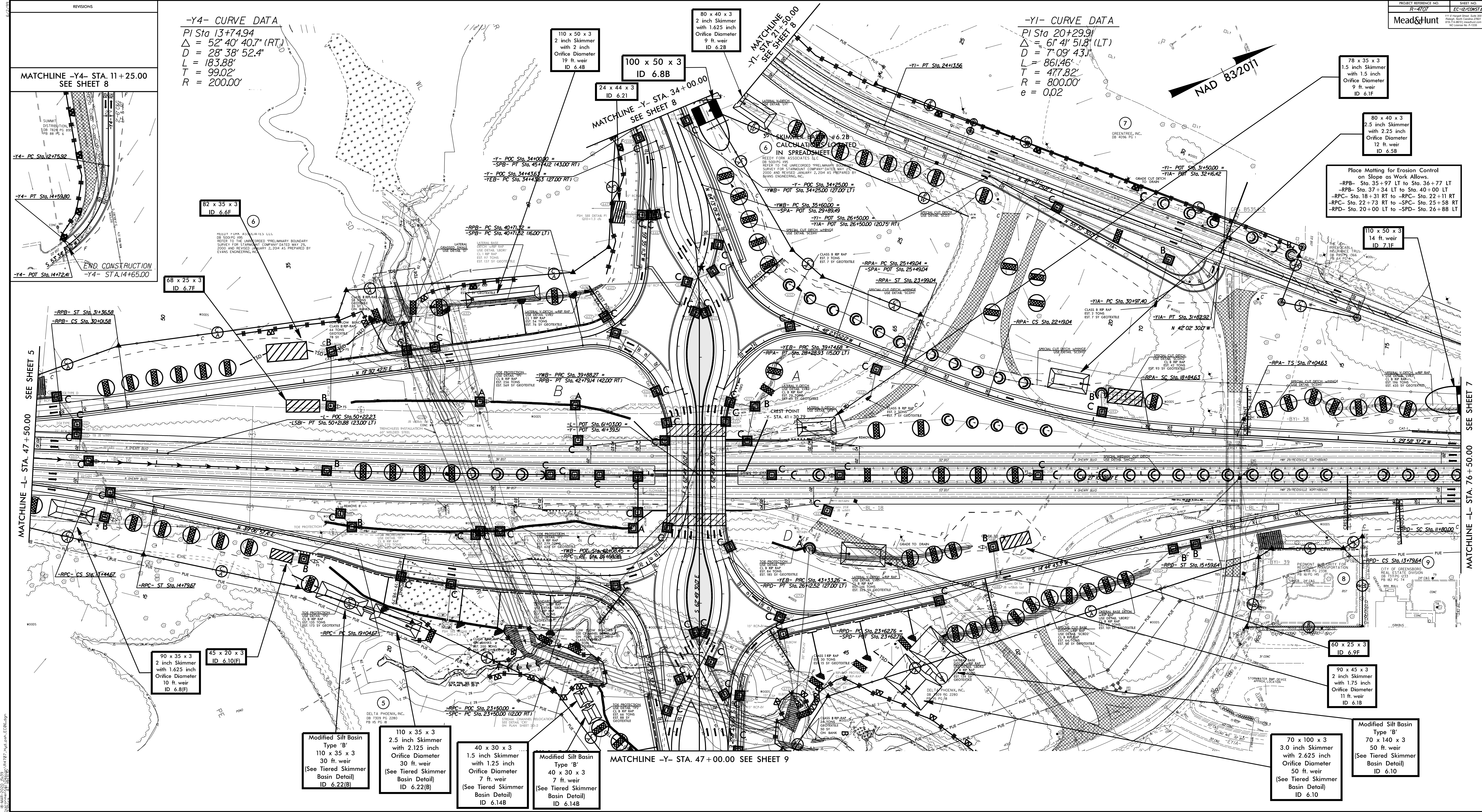
REVISIONS

MATCHLINE -Y4- STA. 11+25.00
 SEE SHEET 8



-Y4- CURVE DATA
 PI Sta 13+74.94
 $\Delta = 52^\circ 40' 40.7''$ (RT)
 $D = 28^\circ 38' 52.4''$
 $L = 183.88'$
 $T = 99.02'$
 $R = 200.00'$

-Y1- CURVE DATA
 PI Sta 20+29.9/
 $\Delta = 61^\circ 41' 51.8''$ (LT)
 $D = 7^\circ 09' 43.1''$
 $L = 861.46'$
 $T = 477.82'$
 $R = 800.00'$
 $e = 0.02$



MATCHLINE -L- STA. 47+50.00
 SEE SHEET 5

MATCHLINE -Y- STA. 47+00.00
 SEE SHEET 9

MATCHLINE -L- STA. 76+50.00
 SEE SHEET 7

82 x 35 x 3
 ID 6.6F

68 x 25 x 3
 ID 6.7F

90 x 35 x 3
 2 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 10 ft. weir
 ID 6.8(F)

45 x 20 x 3
 ID 6.10(F)

Modified Silt Basin
 Type 'B'
 110 x 35 x 3
 30 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.22(B)

110 x 35 x 3
 2.5 inch Skimmer
 with 2.125 inch
 Orifice Diameter
 30 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.22(B)

40 x 30 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 7 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.14B

Modified Silt Basin
 Type 'B'
 40 x 30 x 3
 7 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.14B

100 x 50 x 3
 ID 6.8B

24 x 44 x 3
 ID 6.21

80 x 40 x 3
 2 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 9 ft. weir
 ID 6.2B

78 x 35 x 3
 1.5 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 9 ft. weir
 ID 6.1F

80 x 40 x 3
 2.5 inch Skimmer
 with 2.25 inch
 Orifice Diameter
 12 ft. weir
 ID 6.5B

Place Matting for Erosion Control
 on Slope as Work Allows.
 -RBP- Sta. 35+97 LT to Sta. 36+77 LT
 -RBP- Sta. 37+34 LT to Sta. 40+00 LT
 -RPC- Sta. 18+31 RT to -RPC- Sta. 22+11 RT
 -RPC- Sta. 22+73 RT to -SPC- Sta. 25+58 RT
 -RPD- Sta. 20+00 LT to -SPD- Sta. 26+88 LT

110 x 50 x 3
 ID 7.1F

60 x 25 x 3
 ID 6.9F

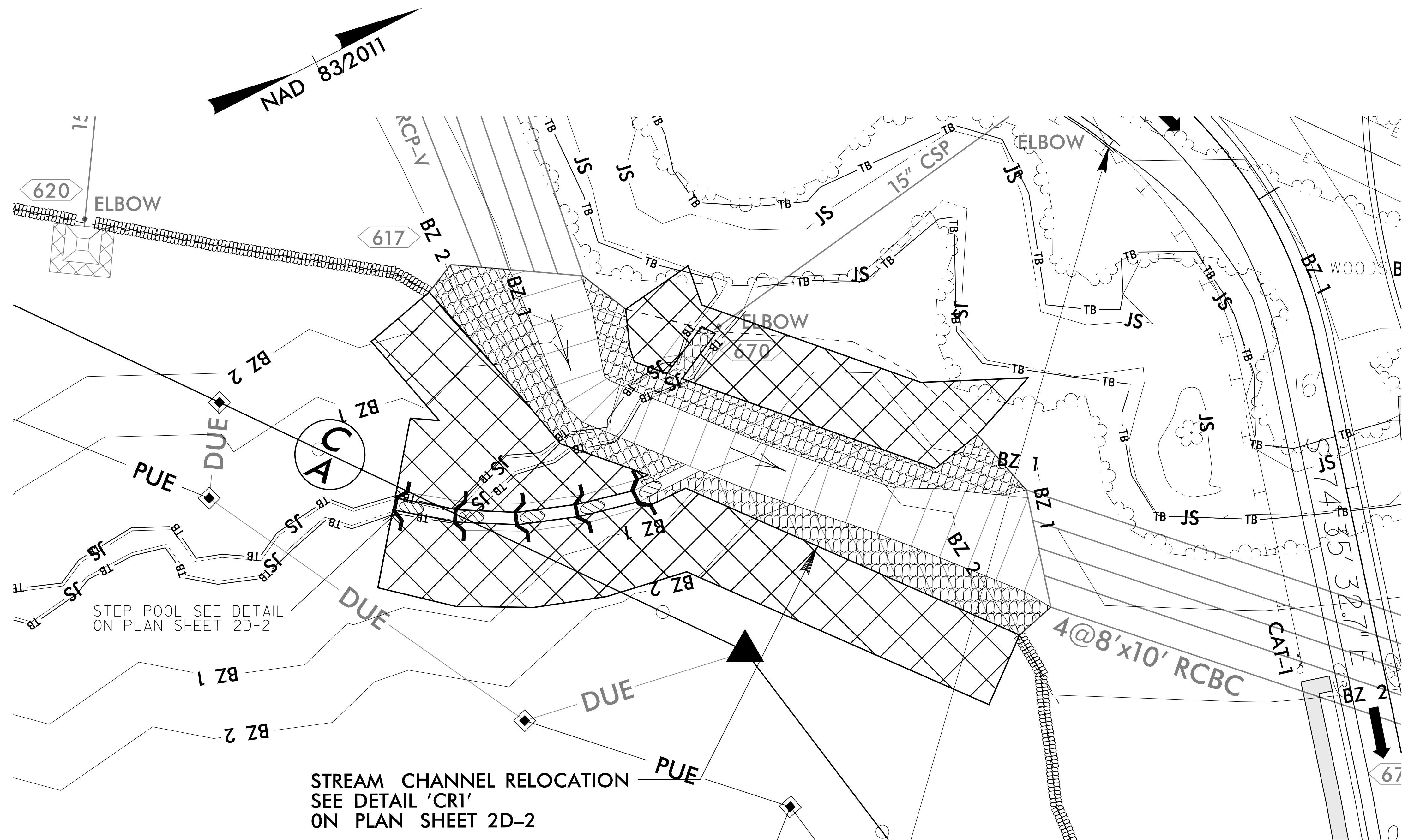
70 x 100 x 3
 3.0 inch Skimmer
 with 2.625 inch
 Orifice Diameter
 50 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.10

Modified Silt Basin
 Type 'B'
 70 x 140 x 3
 50 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.10

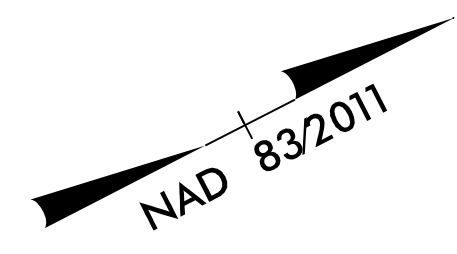
18-0485-020701 (01) 18-0485-020701 (01) 18-0485-020701 (01) 18-0485-020701 (01) 18-0485-020701 (01)

PROJECT REFERENCE NO. R-4707	SHEET NO. EC-12A/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

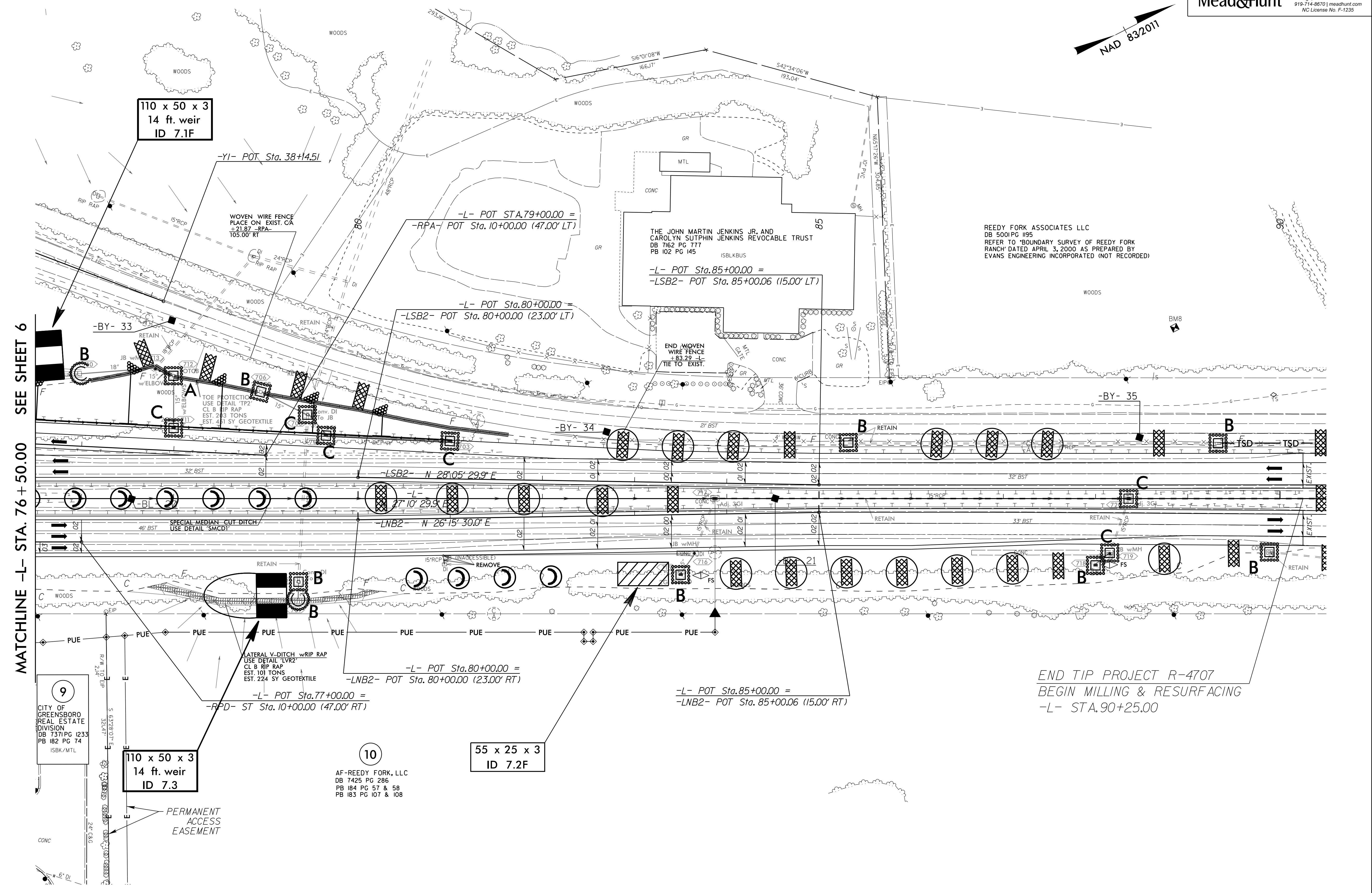
0.27 ACRE STREAMBANK REFORESTATION



SEE RF-2, RF-3 AND PROJECT SPECIAL PROVISIONS



MATCHLINE -L- STA. 76+50.00 SEE SHEET 6



REEDY FORK ASSOCIATES LLC
DB 5001 PG 195
REFER TO 'BOUNDARY SURVEY OF REEDY FORK RANCH' DATED APRIL 3, 2000 AS PREPARED BY EVANS ENGINEERING INCORPORATED (NOT RECORDED)

THE JOHN MARTIN JENKINS JR. AND CAROLYN SUTPHIN JENKINS REVOCABLE TRUST
DB 7162 PG 177
PB 102 PG 145
ISBLKBUS

9
CITY OF GREENSBORO
REAL ESTATE
DIVISION
DB 7371 PG 1233
PB 182 PG 74
ISBK/MTL

10
AF-REEDY FORK, LLC
DB 7425 PG 286
PB 184 PG 57 & 58
PB 183 PG 107 & 108

END TIP PROJECT R-4707
BEGIN MILLING & RESURFACING
-L- STA. 90+25.00

BEGIN CONSTRUCTION
-DR2B+ STA.10+65.00
NOTE: SAWCUT EXIST.
PAVEMENT AND TIE
PROPOSED PAVEMENT
TO EXIST. ELEVATION

BEGIN CONSTRUCTION
-DR2A- STA.11+90.00

BEGIN CONSTRUCTION
-DRI- STA.10+15.00

BEGIN CONSTRUCTION
-Y- STA.21+00.00

50 x 50 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
74 ft. weir
ID 8.6F

60 x 22 x 3
ID 8.1F

88 x 42 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
14 ft. weir
ID 8.2F

100 x 60 x 3
ID 8.3F

150 x 40 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
22 ft. weir
ID 8.4F

DO NOT DISTURB
WATER VALVE VAULT

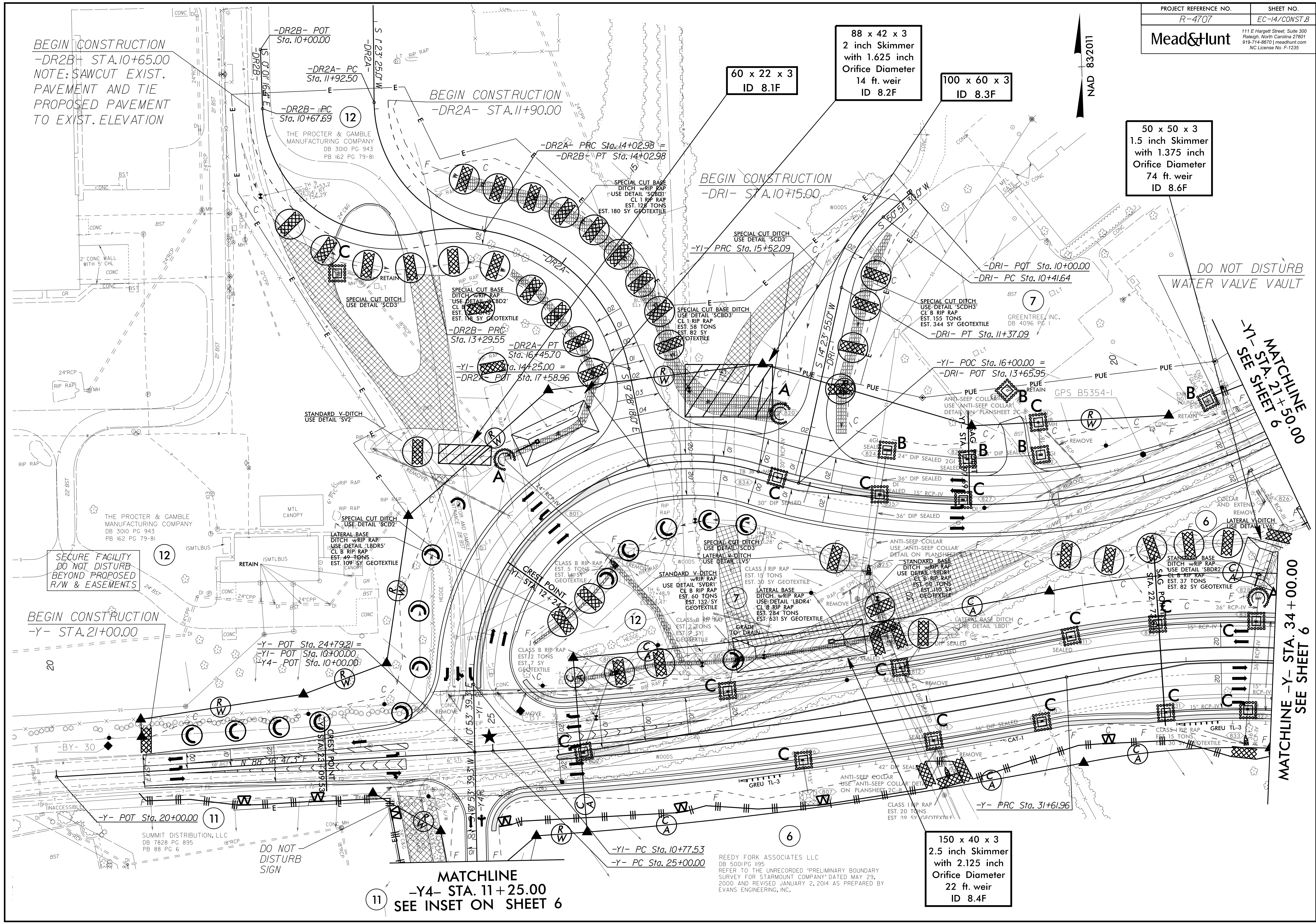
SECURE FACILITY
DO NOT DISTURB
BEYOND PROPOSED
R/W & EASEMENTS

DO NOT
DISTURB
SIGN

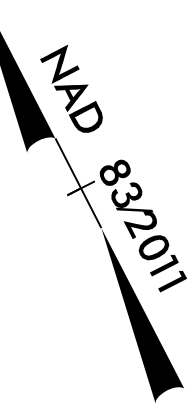
MATCHLINE
-Y4- STA. 11+25.00
SEE INSET ON SHEET 6

MATCHLINE
-Y1- STA. 21+50.00
SEE SHEET 6

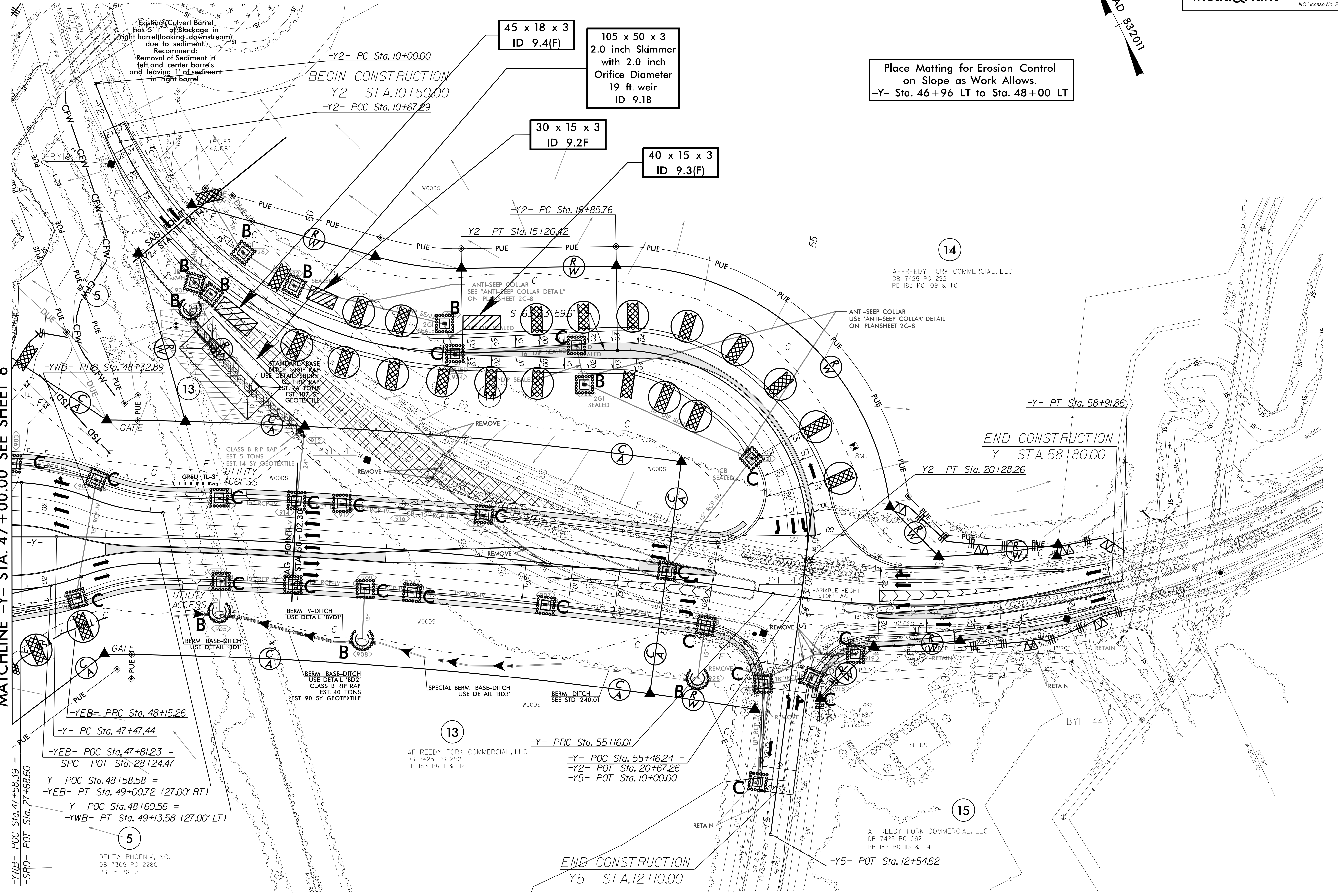
MATCHLINE -Y- STA. 34+00.00
SEE SHEET 6



REEDY FORK ASSOCIATES LLC
DB 5001 PG 1195
REFER TO THE UNRECORDED "PRELIMINARY BOUNDARY
SURVEY FOR STARMOUNT COMPANY" DATED MAY 29,
2000 AND REVISED JANUARY 2, 2014 AS PREPARED BY
EVANS ENGINEERING, INC.



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



DELTA PHOENIX, INC.
 DB 7309 PG 2280
 PB 115 PG 18

AF-REEDY FORK COMMERCIAL, LLC
 DB 7425 PG 292
 PB 183 PG III & II2

-Y- POC Sta. 55+16.01
 -Y- POC Sta. 55+46.24 =
 -Y2- POT Sta. 20+67.26
 -Y5- POT Sta. 10+00.00

AF-REEDY FORK COMMERCIAL, LLC
 DB 7425 PG 292
 PB 183 PG III3 & III4

-Y5- POT Sta. 12+54.62

END CONSTRUCTION
 -Y5- STA. 12+10.00

Place Matting for Erosion Control
 on Slope as Work Allows.
 -Y- Sta. 46+96 LT to Sta. 48+00 LT

105 x 50 x 3
 2.0 inch Skimmer
 with 2.0 inch
 Orifice Diameter
 19 ft. weir
 ID 9.1B

45 x 18 x 3
 ID 9.4(F)

30 x 15 x 3
 ID 9.2(F)

40 x 15 x 3
 ID 9.3(F)

-Y2- PC Sta. 10+00.00
 BEGIN CONSTRUCTION
 -Y2- STA. 10+50.00
 -Y2- PCC Sta. 10+67.29

14

AF-REEDY FORK COMMERCIAL, LLC
 DB 7425 PG 292
 PB 183 PG 109 & 110

ANTI-SEEP COLLAR
 USE 'ANTI-SEEP COLLAR' DETAIL
 ON PLANSHEET 2C-8

-Y- PT Sta. 58+91.86

END CONSTRUCTION
 -Y- STA. 58+00.00

-Y2- PT Sta. 20+28.26

13

15