

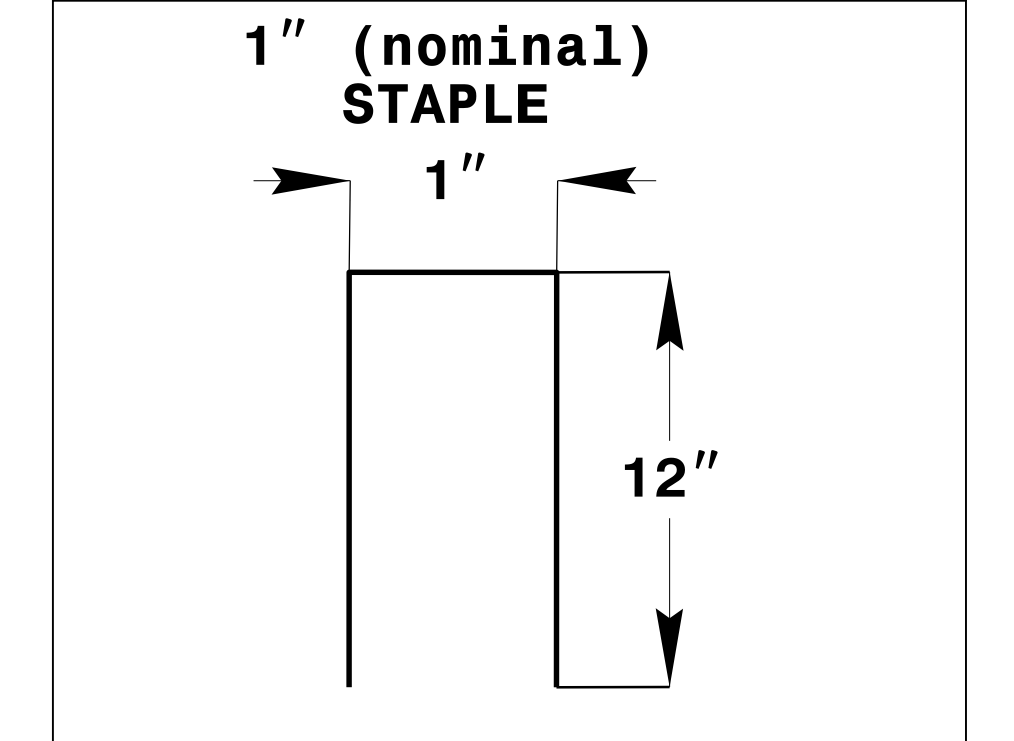
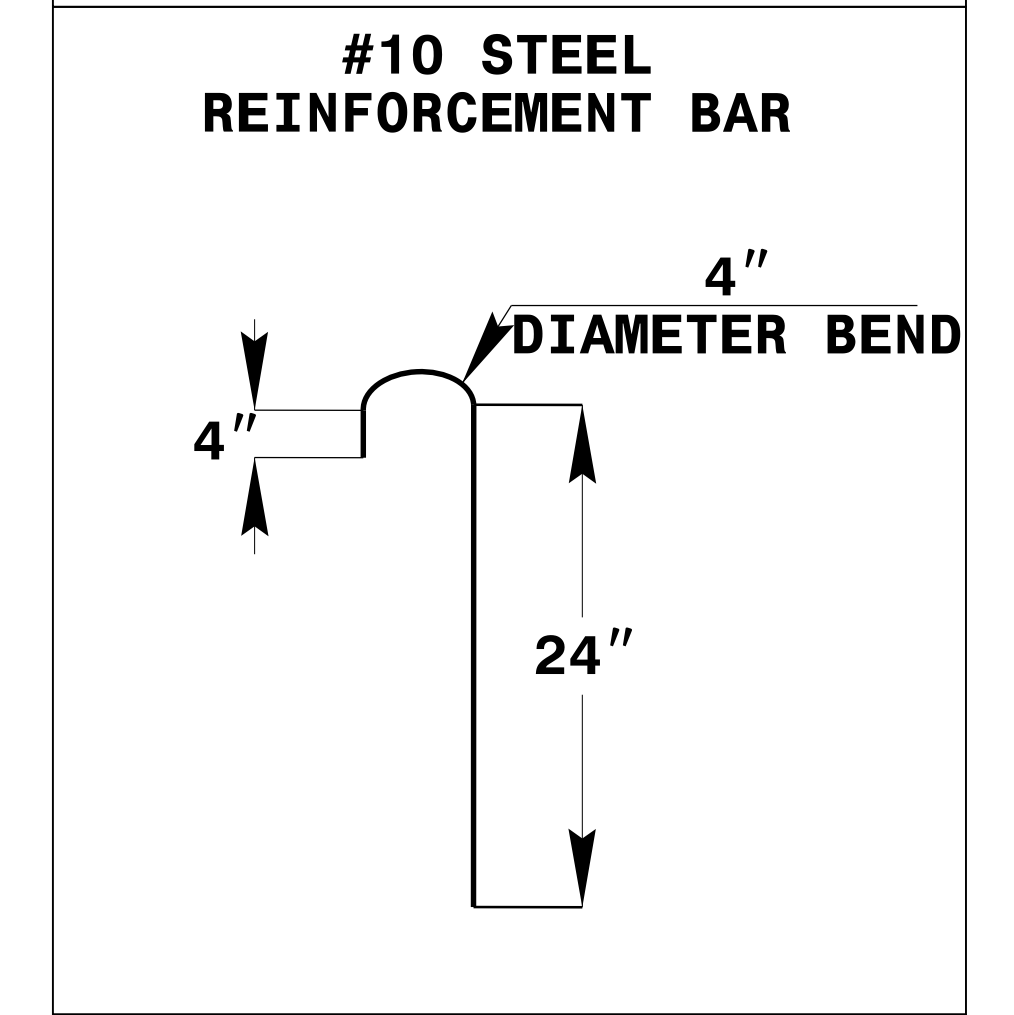
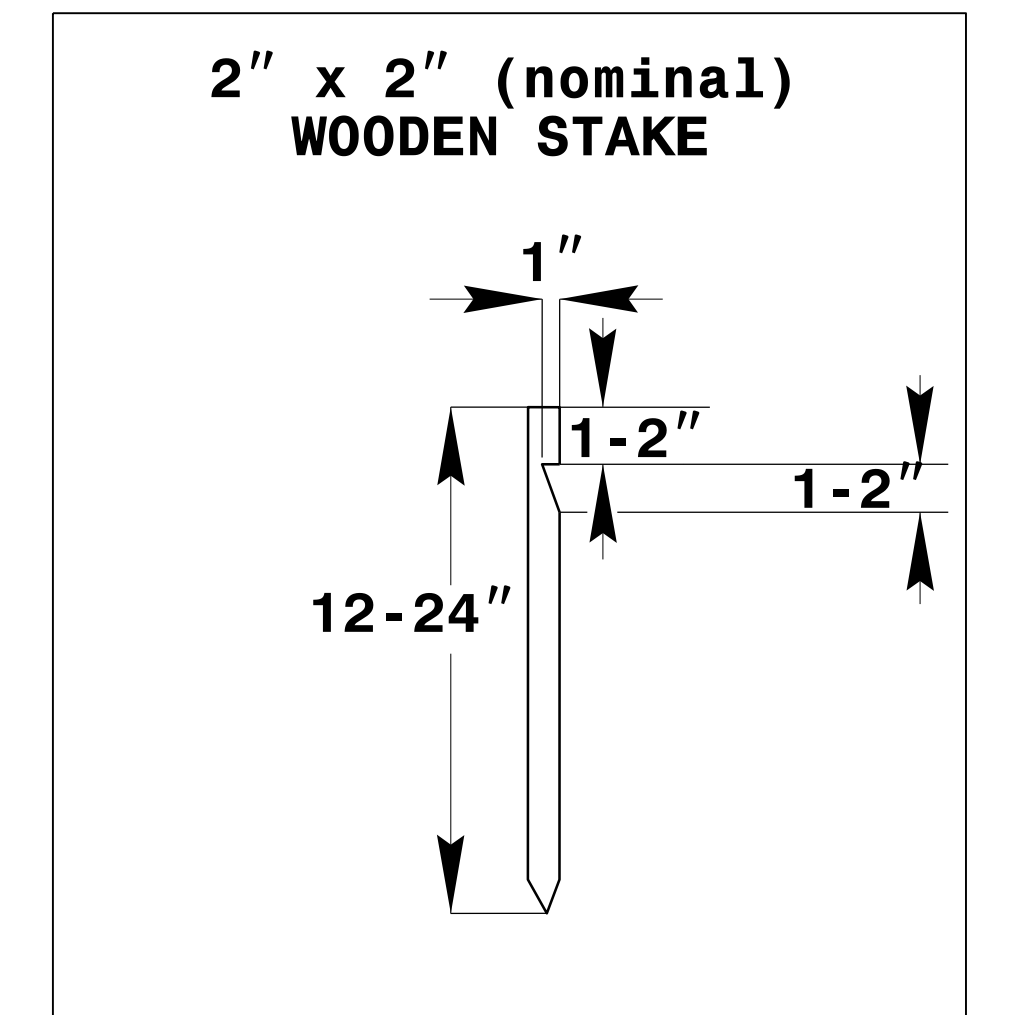
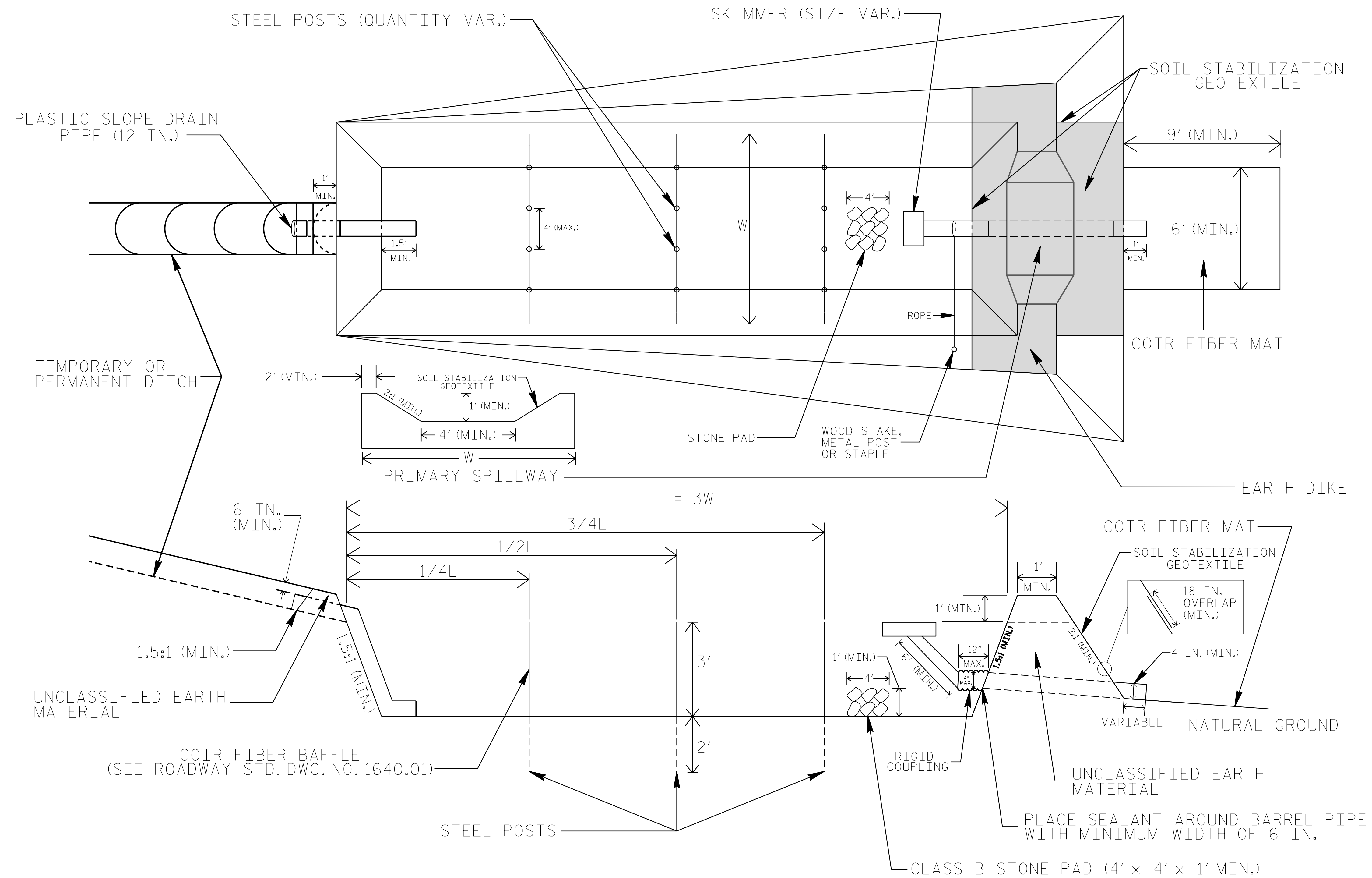
**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

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

PROJECT REFERENCE NO. I-5000	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

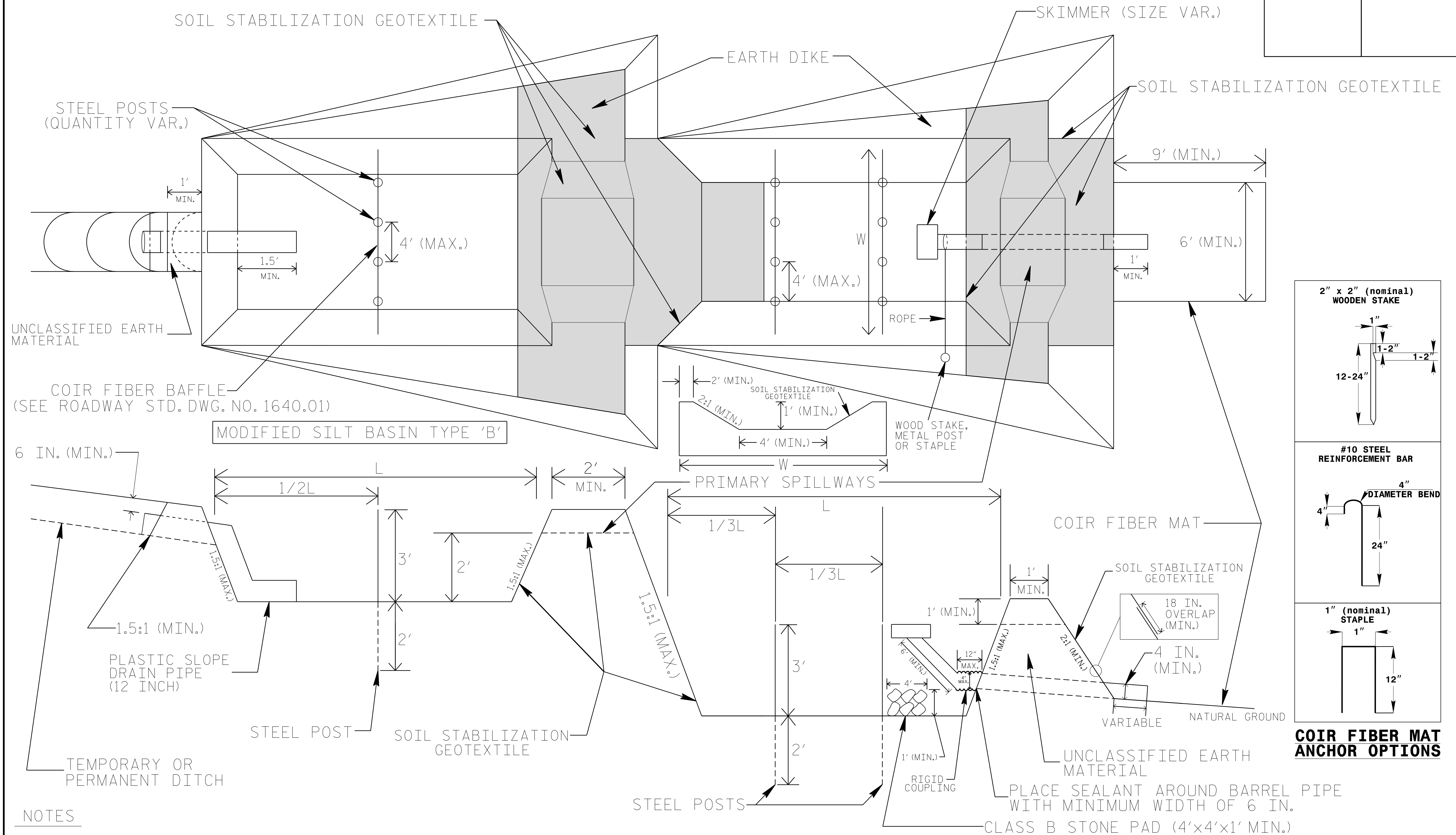
NOTES

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

TIERED SKIMMER BASIN DETAIL

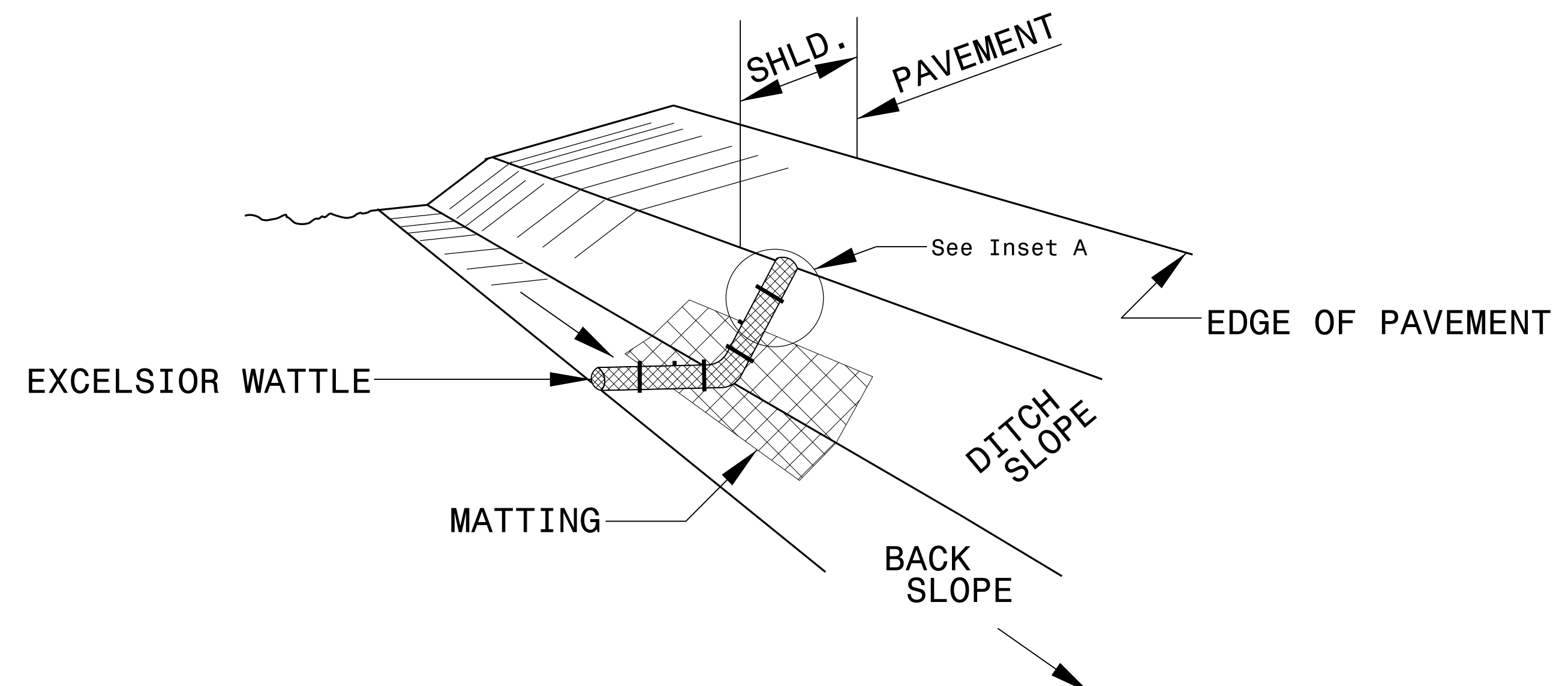
PROJECT REFERENCE NO. I-5000	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



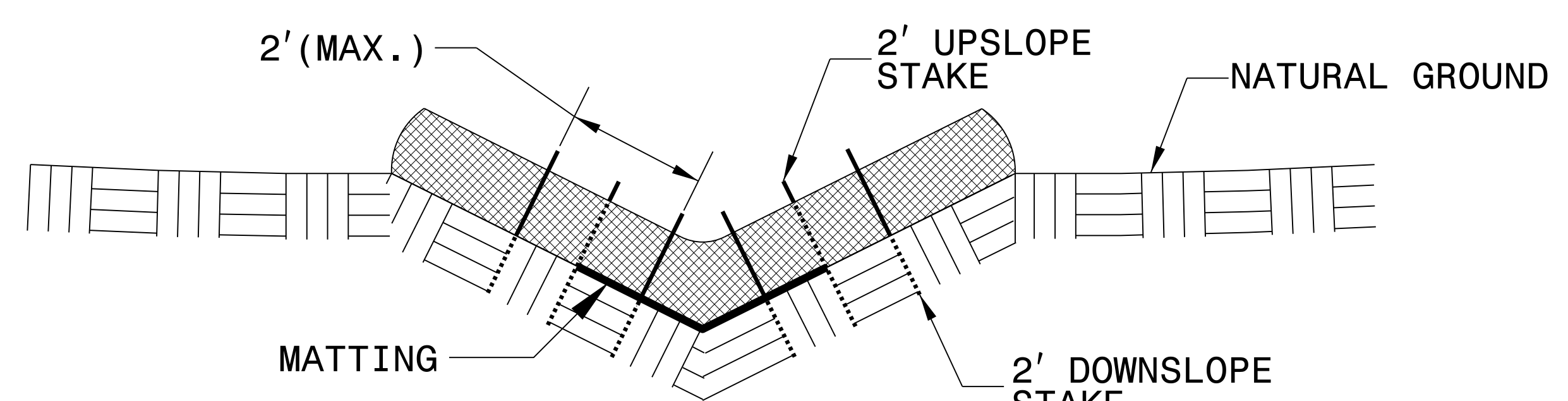
NOT TO SCALE

PROJECT REFERENCE NO. I-5000	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

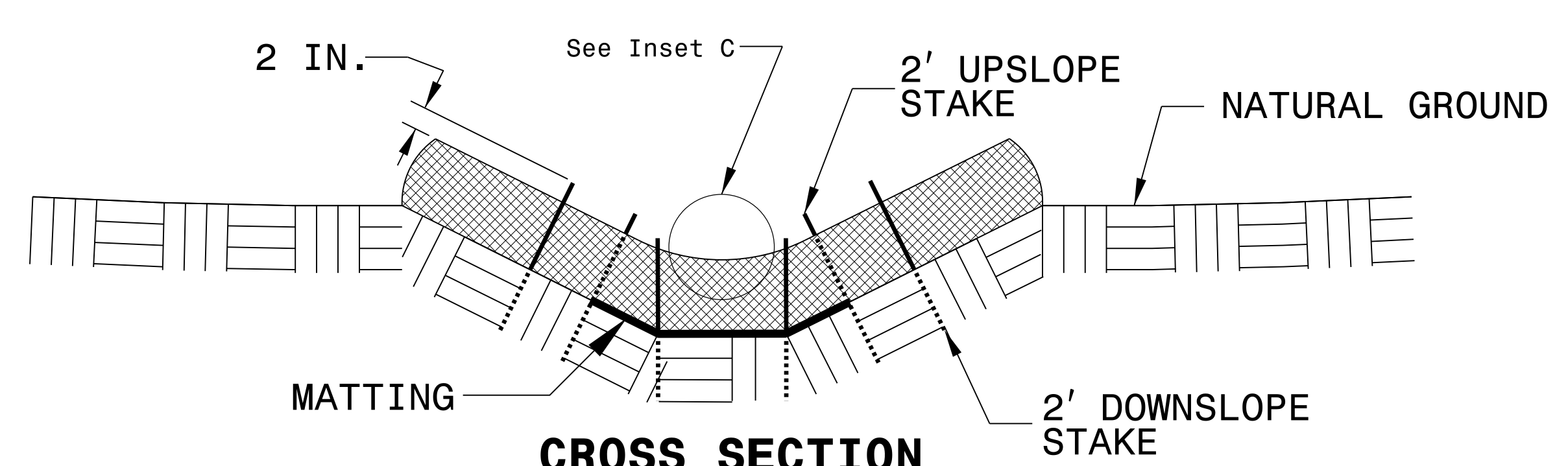
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW

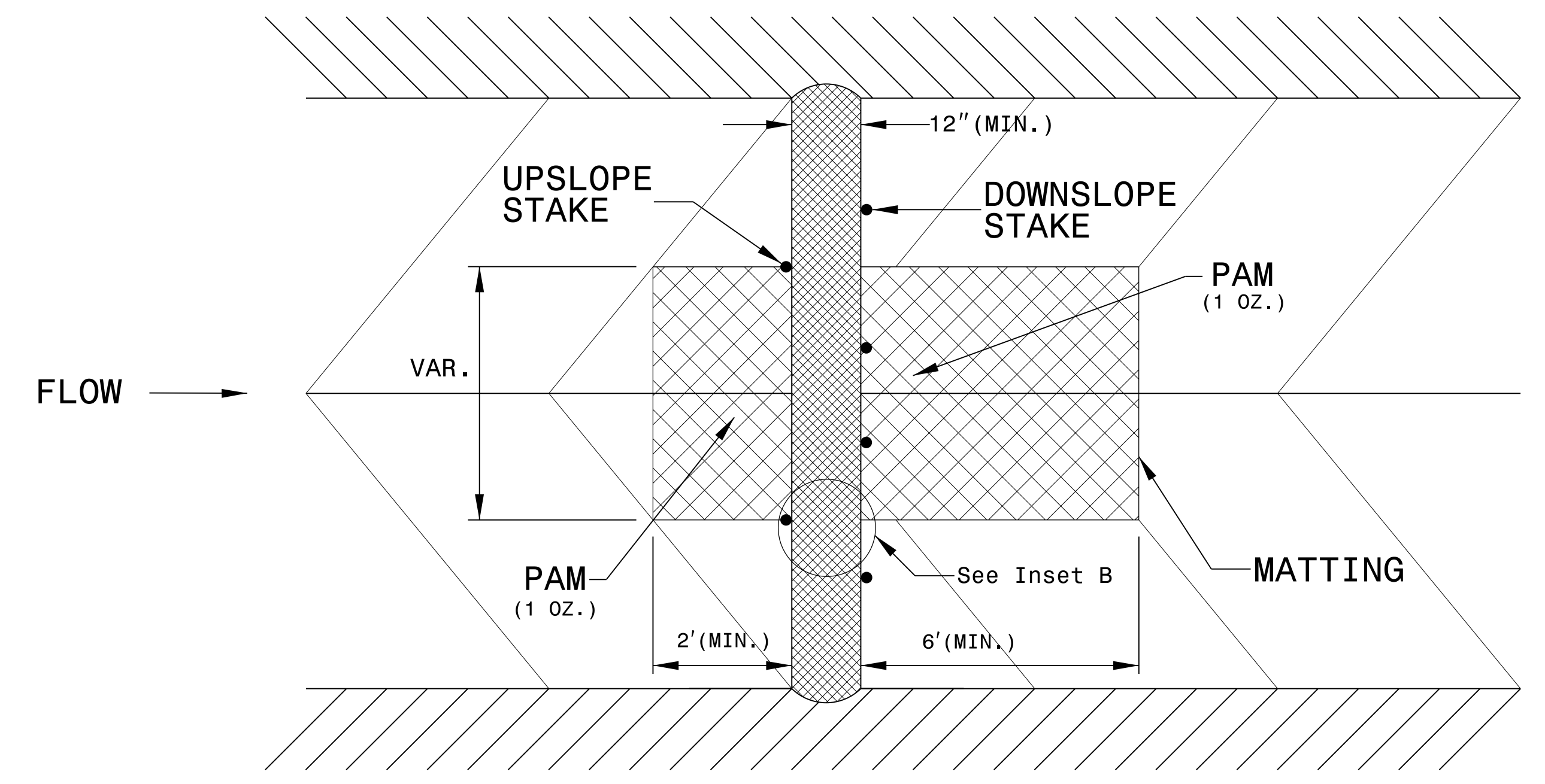
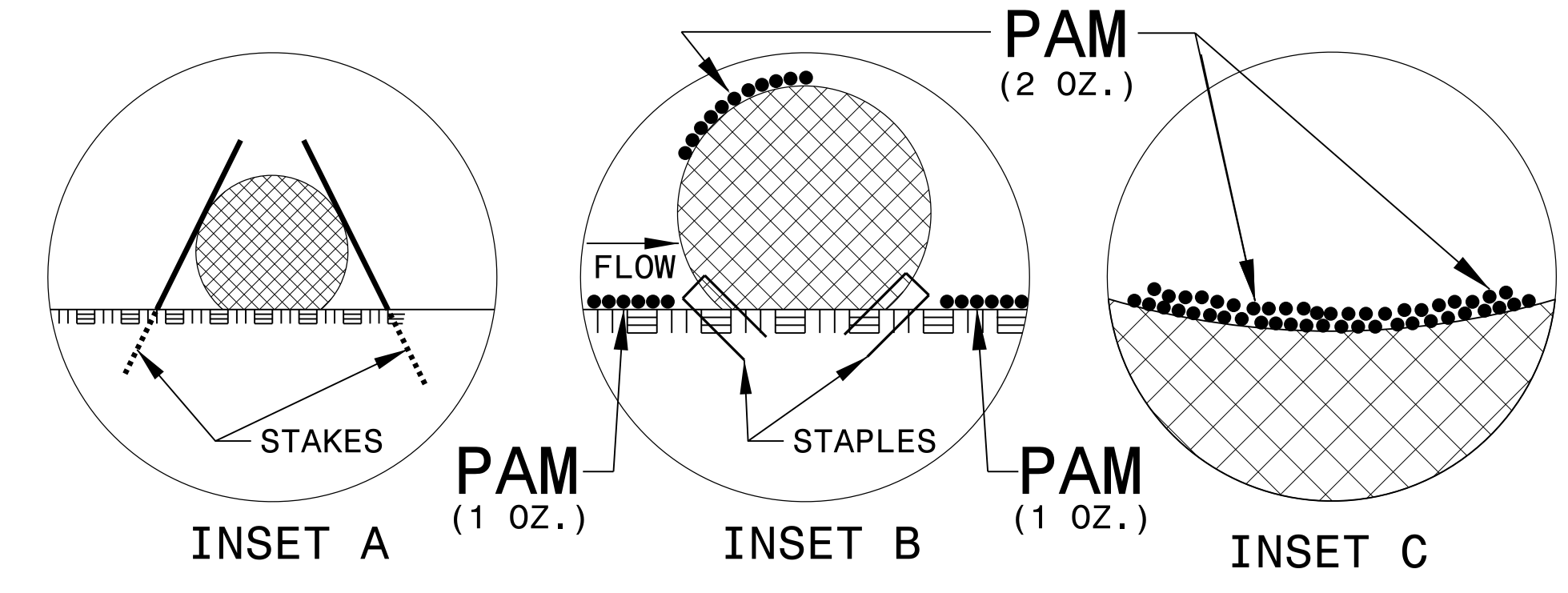


CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

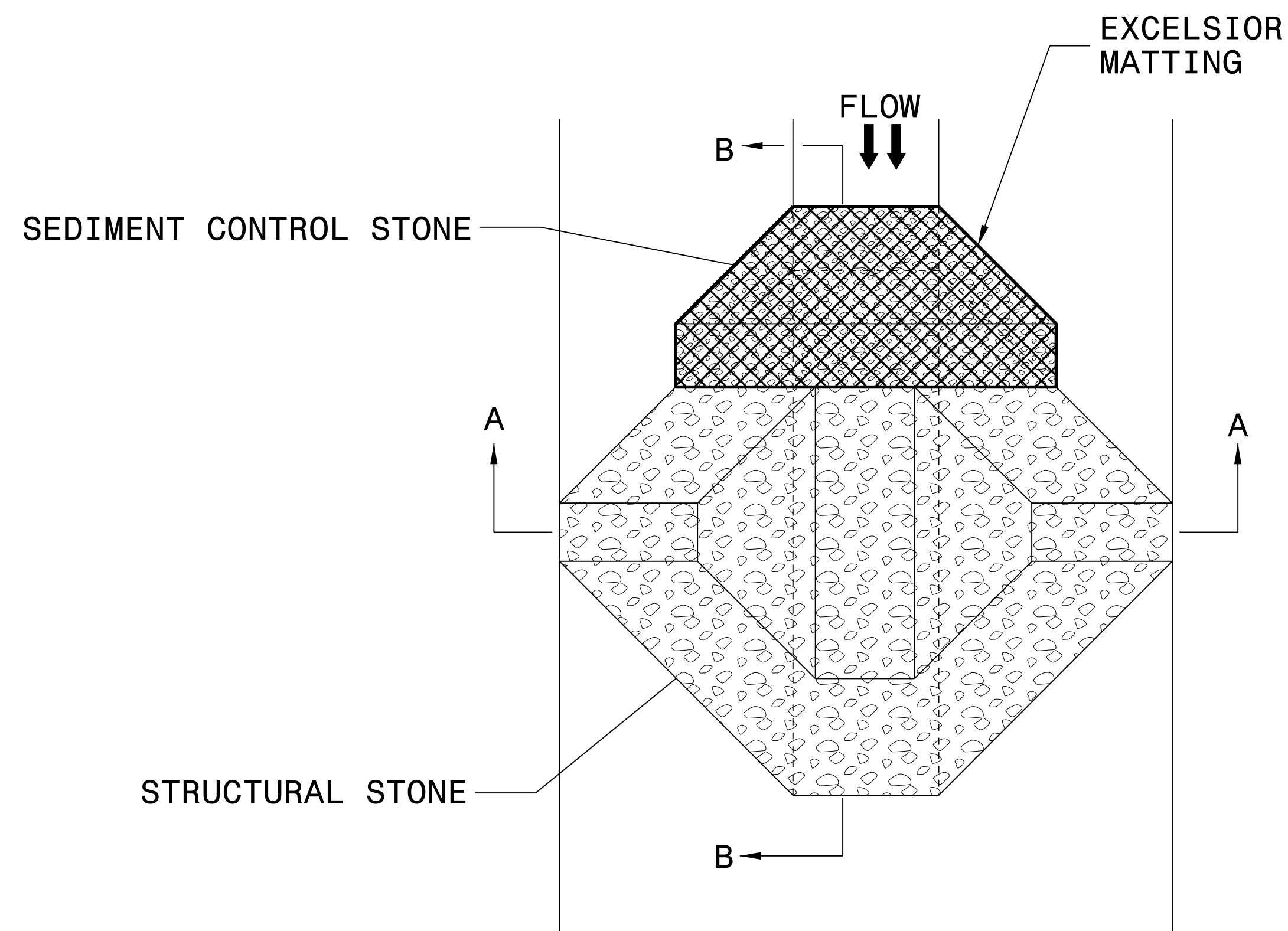
- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE 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 MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TOP VIEW

PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

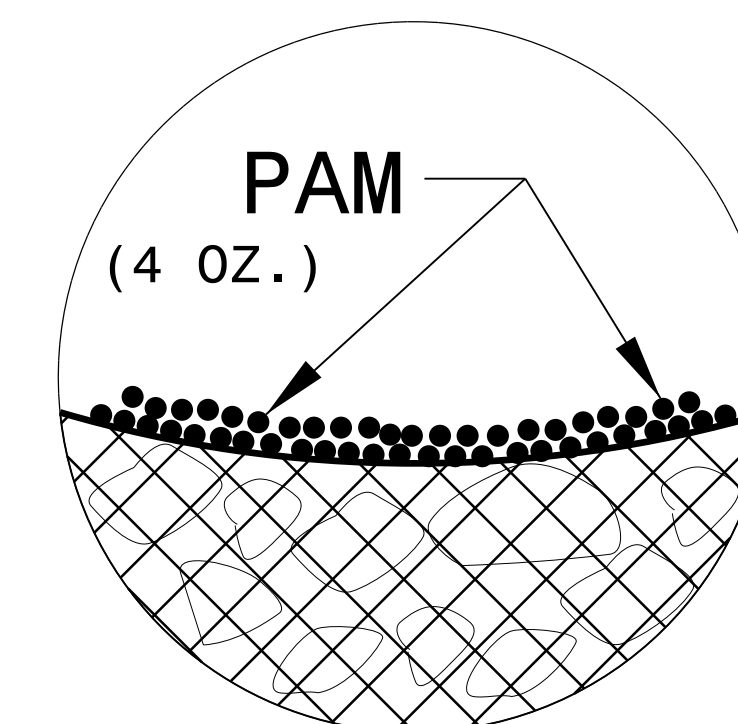
NOTES:

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

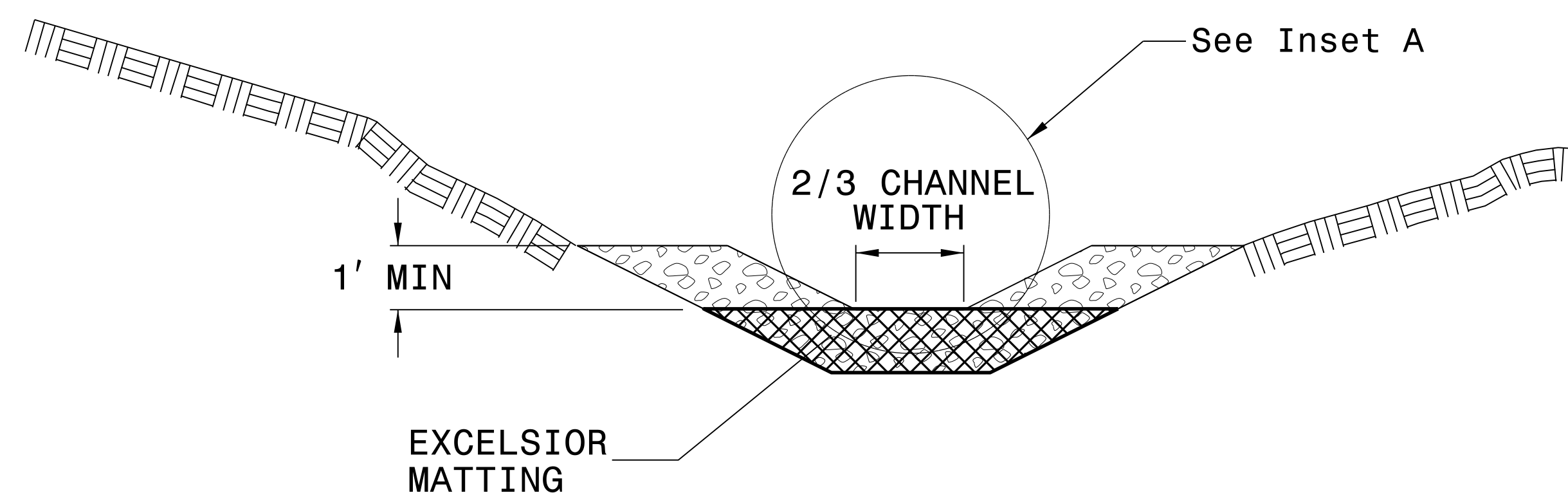
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

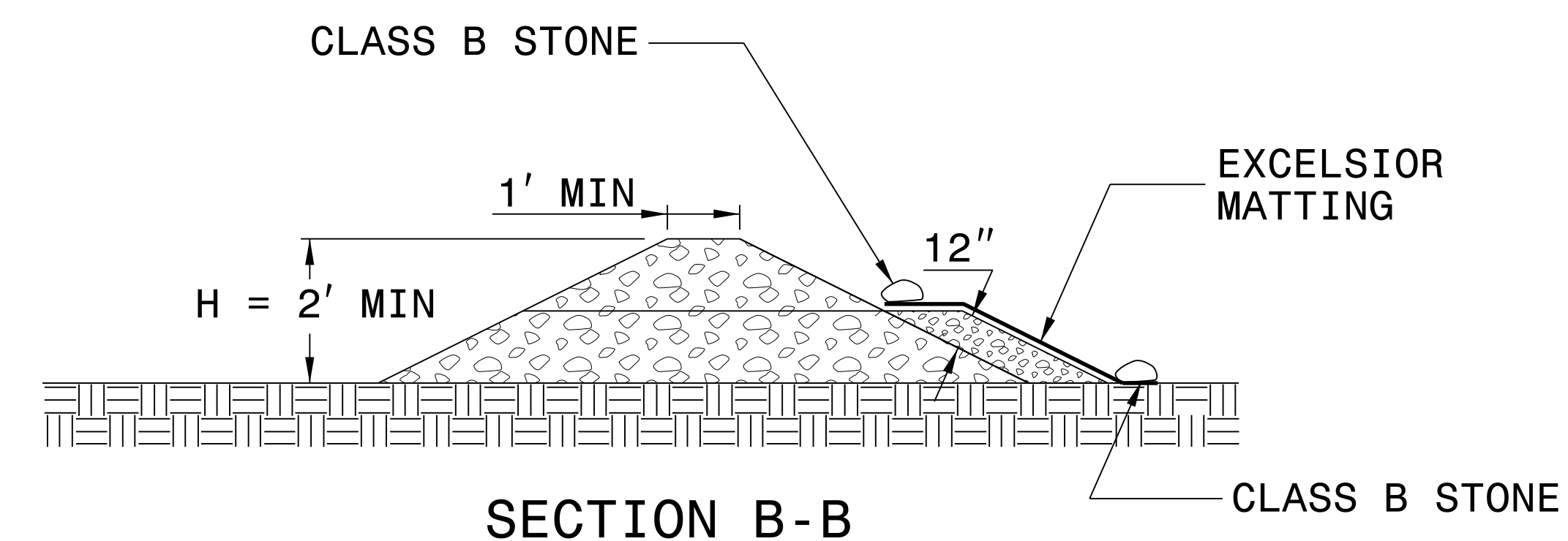
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

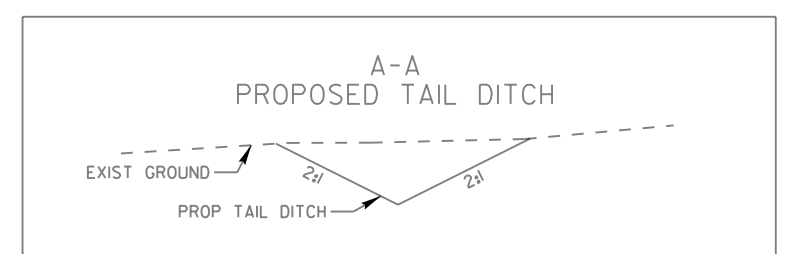
PROJECT REFERENCE NO. <i>I-5000</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

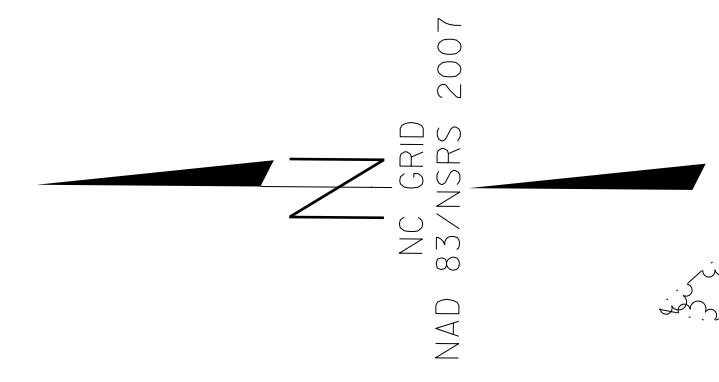
PROJECT REFERENCE NO.	SHEET NO.
I-5000	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



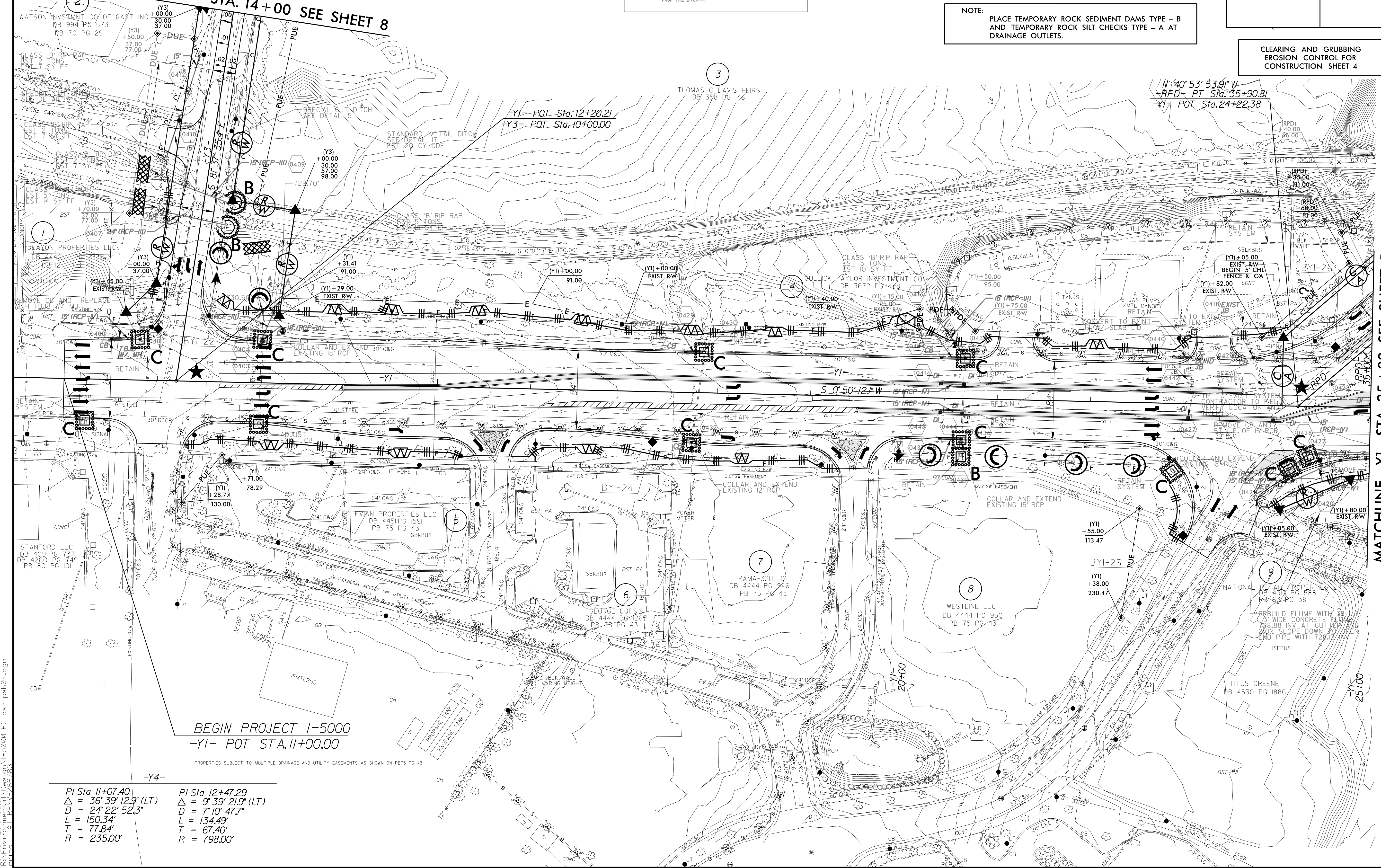
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4



8/17/99

MATCHLINE -Y3- STA. 14+00 SEE SHEET 8



-Y1- POT Sta. 12+20.21
-Y3- POT Sta. 10+00.00

N 40° 53' 53.91" W
-RPD- PT Sta. 35+90.81
-Y1+ POT Sta. 24+22.38

BEGIN PROJECT I-5000
-Y1- POT STA. 11+00.00

-Y4-
PI Sta 11+07.40
Δ = 36° 39' 12.9" (LT)
D = 24' 22" 52.3"
L = 150.34'
T = 77.84'
R = 235.00'

PI Sta 12+47.29
Δ = 9° 39' 21.9" (LT)
D = 7' 10" 47.7"
L = 134.49'
T = 67.40'
R = 798.00'

MATCHLINE -Y1- STA. 25+00 SEE SHEET 5

28-OCT-2016 09:37 Designer: I-5000-EC.dsn - psh04.dgn

MATCHLINE -Y1- STA. 25+00 SEE SHEET 4

PROJECT REFERENCE NO. I-5000	SHEET NO. EC-5/CONST.5
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

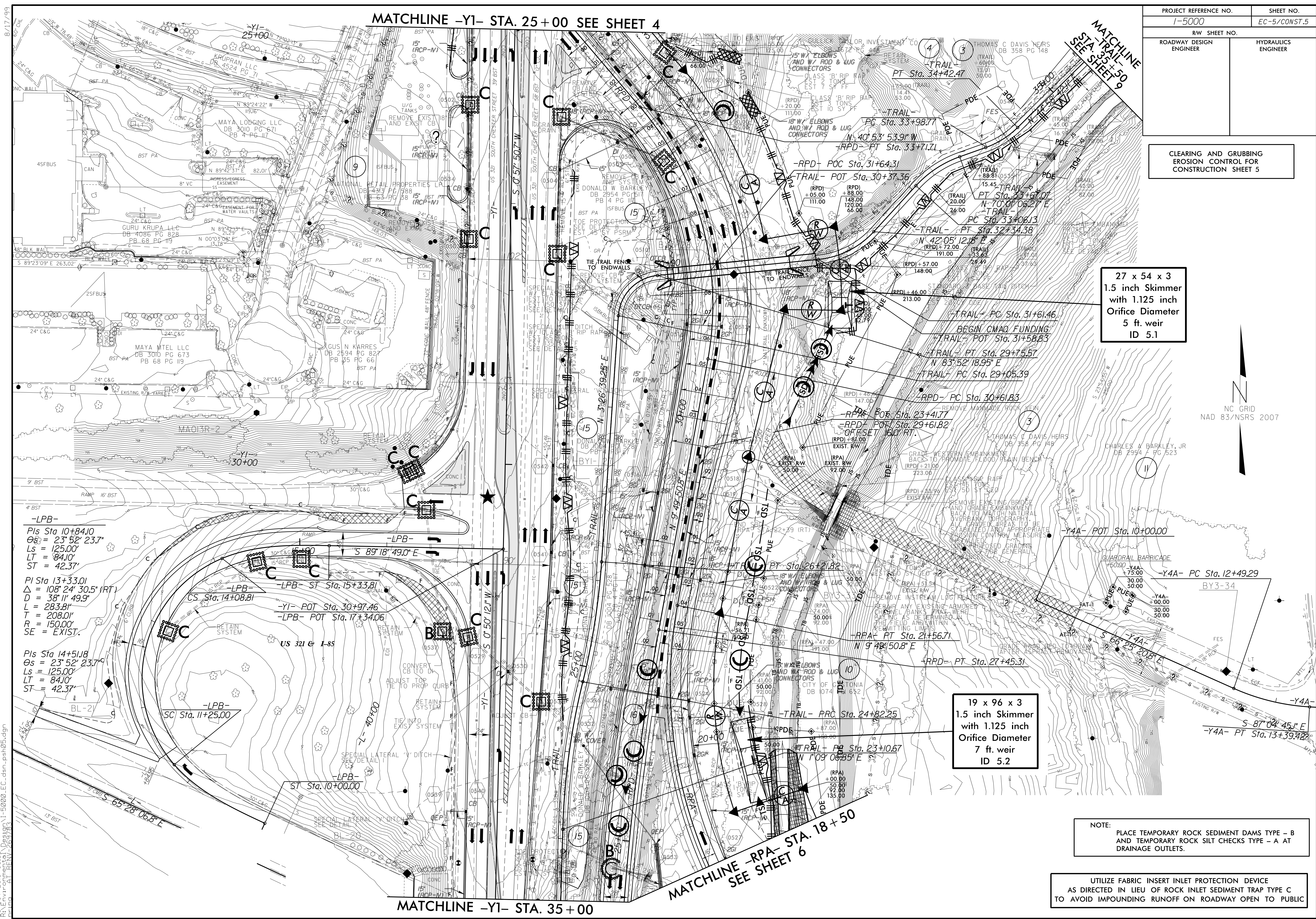
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

27 x 54 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
5 ft. weir
ID 5.1

19 x 96 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
7 ft. weir
ID 5.2

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

UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



8/17/99
 28-OCT-2016 09:53 Designer: I-5000-EC.dwg psh05.dgn
 269783

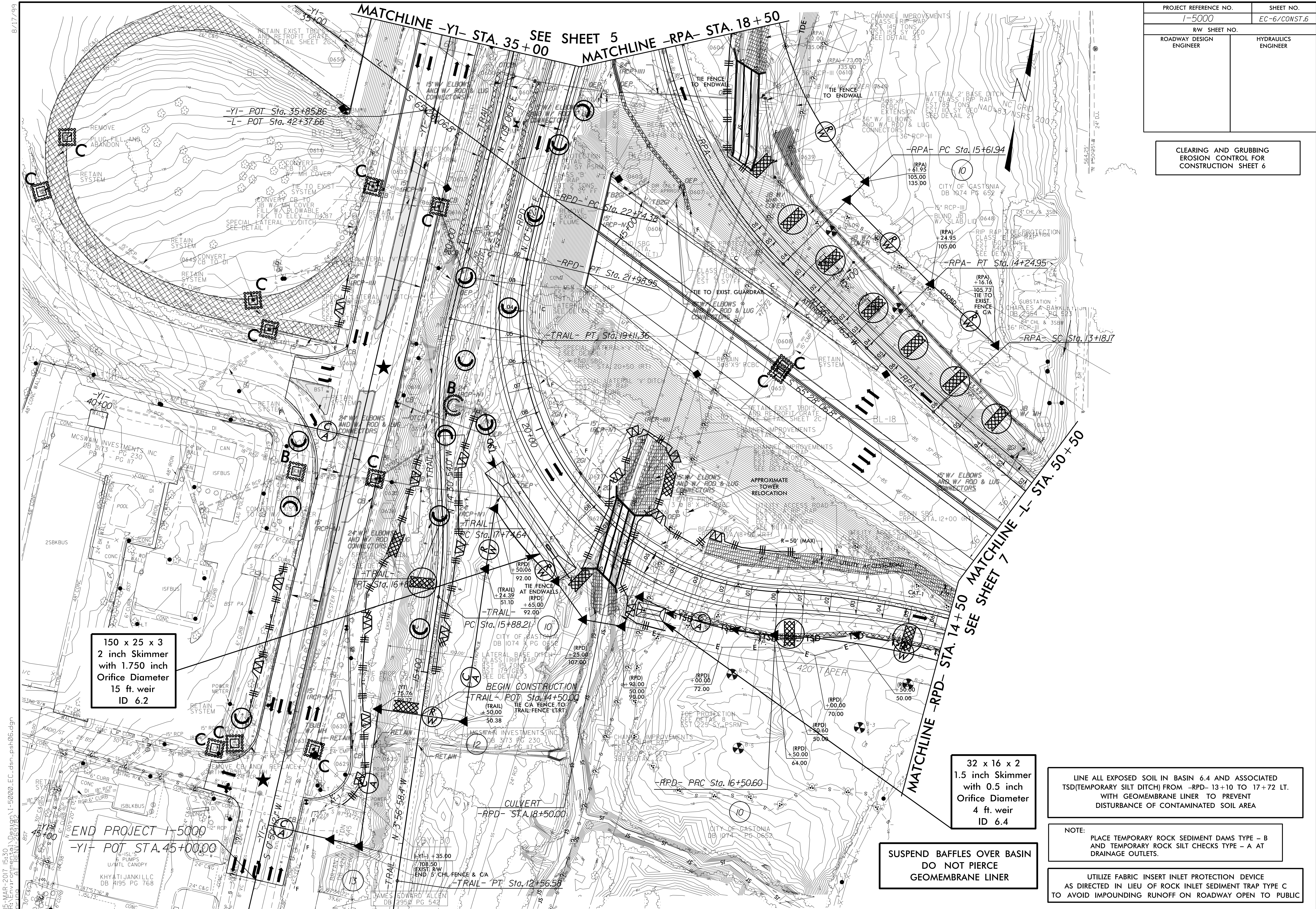
NC GRID
 NAD 83/NSRS 2007

MATCHLINE -Y1- STA. 35+00

MATCHLINE -RPA- STA. 18+50
SEE SHEET 6

PROJECT REFERENCE NO. <i>I-5000</i>	SHEET NO. <i>EC-6/CONST.6</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6



150 x 25 x 3
2 inch Skimmer
with 1.750 inch
Orifice Diameter
15 ft. weir
ID 6.2

32 x 16 x 2
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 6.4

SUSPEND BAFFLES OVER BASIN
DO NOT PIERCE
GEOMEMBRANE LINER

LINE ALL EXPOSED SOIL IN BASIN 6.4 AND ASSOCIATED
TSD (TEMPORARY SILT DITCH) FROM -RPD- 13+10 TO 17+72 LT.
WITH GEOMEMBRANE LINER TO PREVENT
DISTURBANCE OF CONTAMINATED SOIL AREA

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

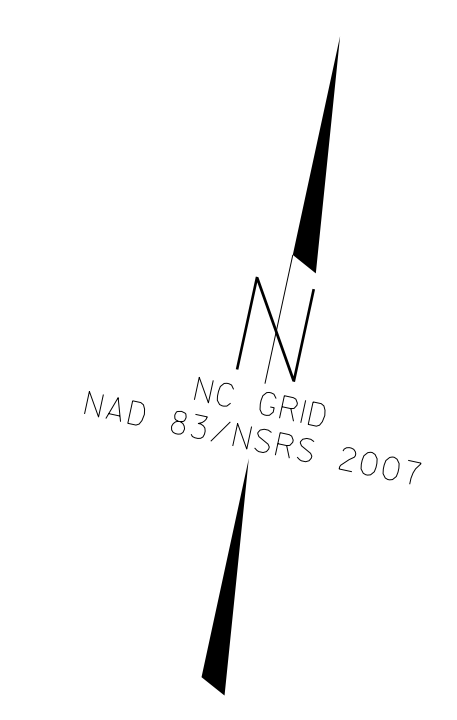
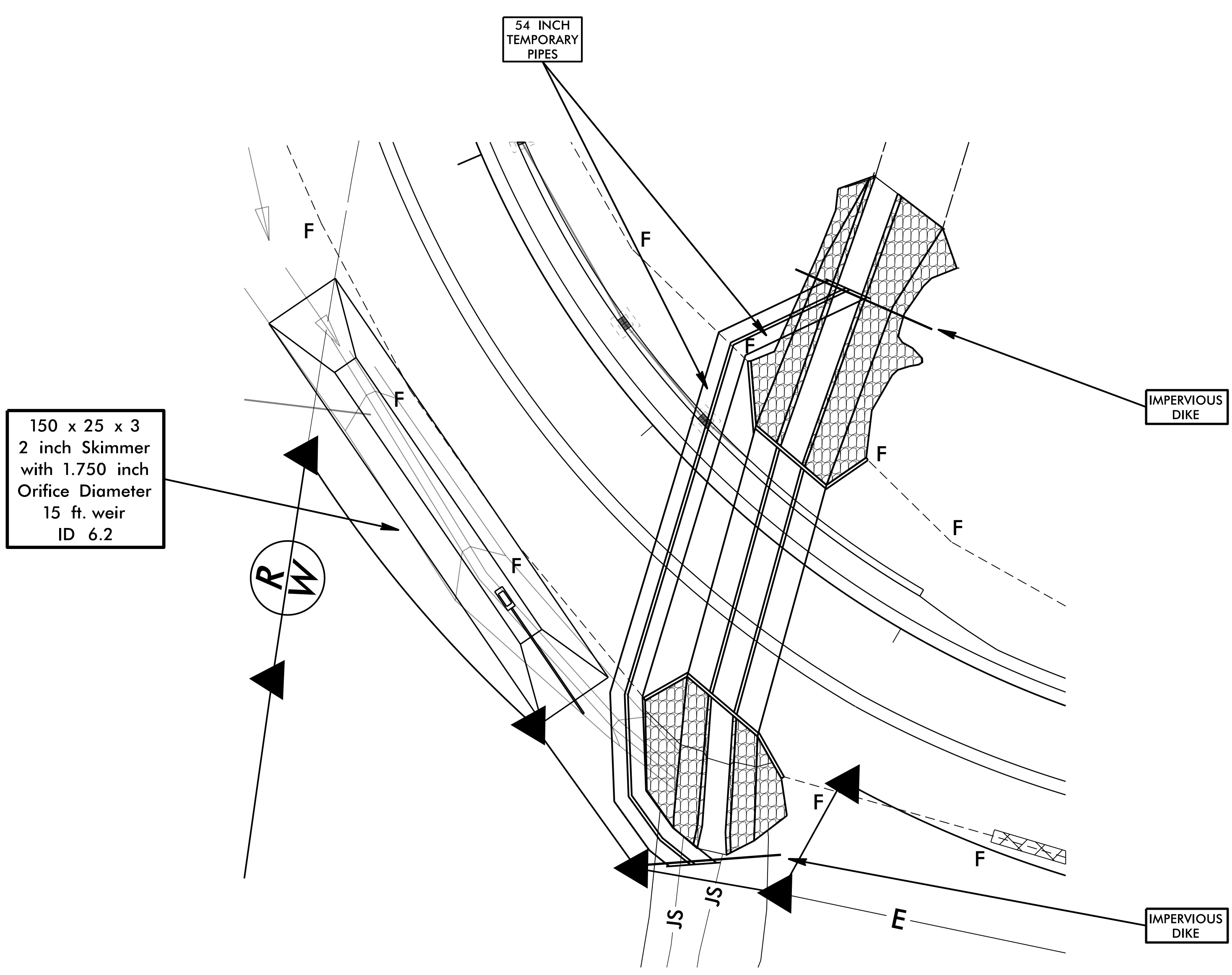
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

8/17/99
15-MAR-2011 15:30 D:\Projects\I-5000\EC.dwg - psh06.dgn
REVISED BY: CA
DATE: 11-26-2010

PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-7/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 18+50 -RPD-

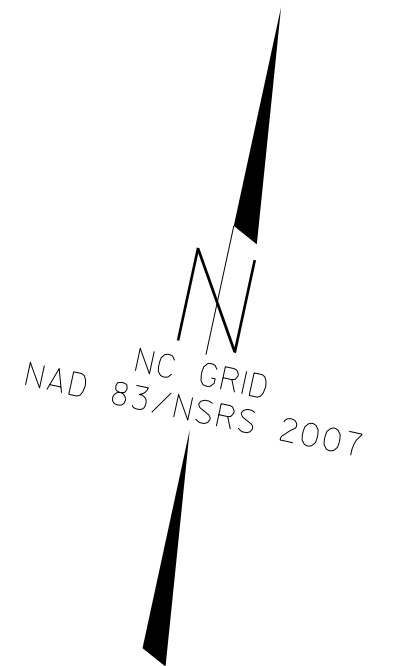
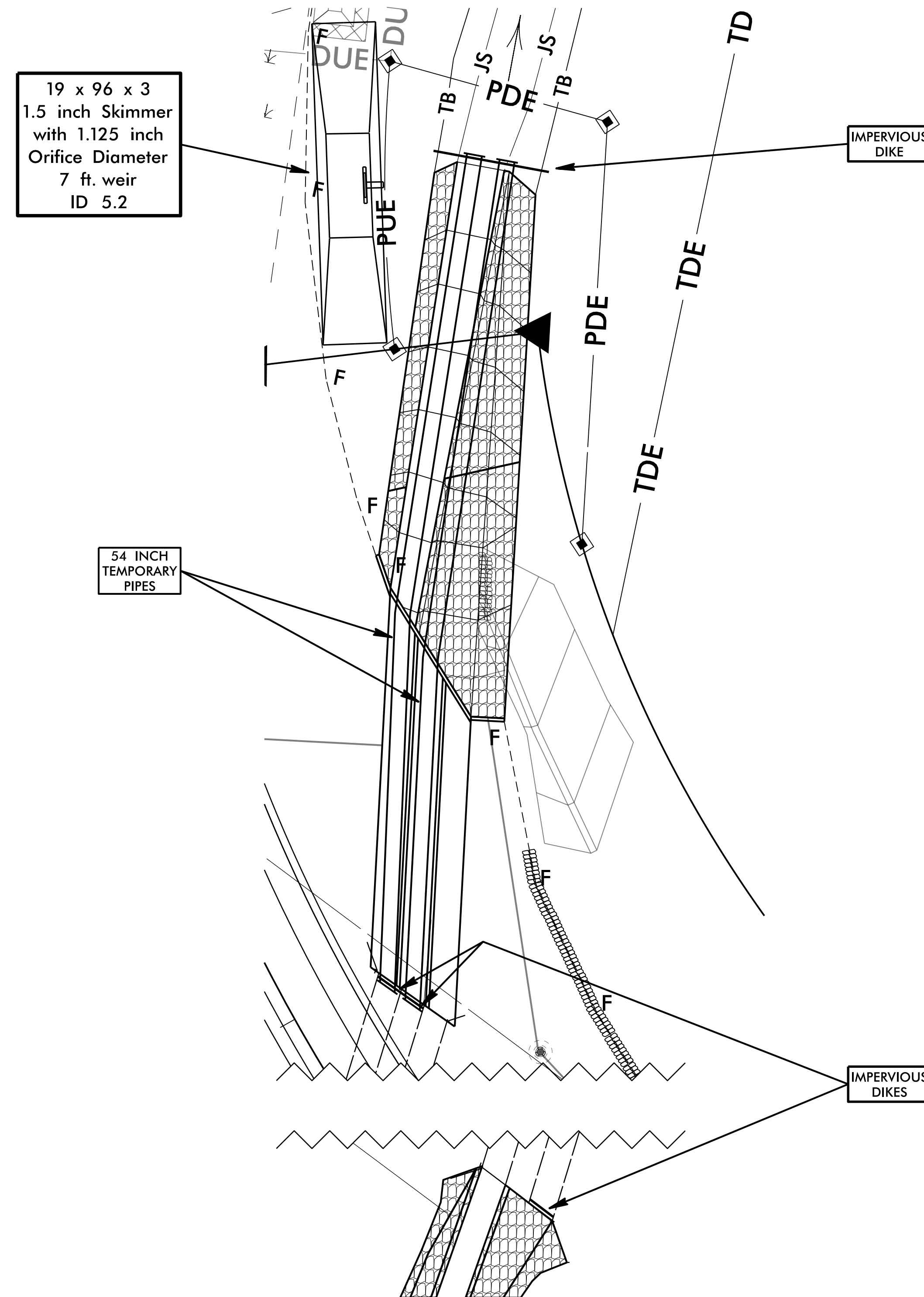
1. UTILIZE SKIMMER BASIN 6.2 AS STILLING BASIN THROUGHOUT CULVERT CONSTRUCTION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 54 INCH TEMPORARY PIPES, DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT AND INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND 54 INCH TEMPORARY PIPES, ALLOWING NORMAL FLOW THROUGH PROPOSED CULVERT.
5. COMPLETE ROADWAY.



PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-8/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 16+58 -RPA-

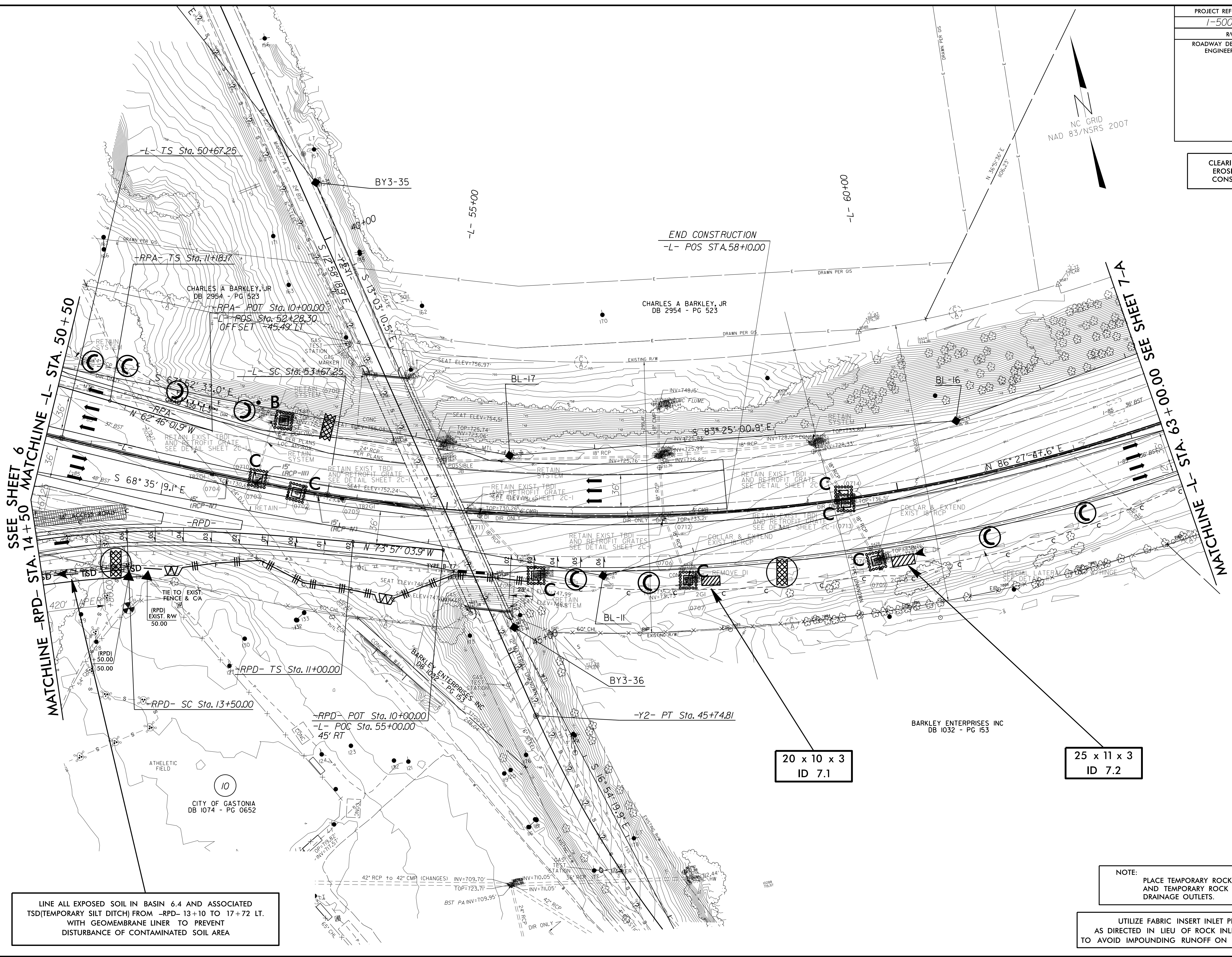
1. UTILIZE SKIMMER BASIN 5.2 AS STILLING BASIN THROUGHOUT CULVERT CONSTRUCTION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 54 INCH TEMPORARY PIPES, DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT EXTENSION AND OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND 54 INCH TEMPORARY PIPES, ALLOWING NORMAL FLOW THROUGH PROPOSED CULVERT.
5. COMPLETE ROADWAY.



PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-9/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NC GRID
NAD 83/NRSR 2007



SSEE SHEET 6
MATCHLINE -L- STA. 50+50
MATCHLINE -RPD- STA. 14+50

MATCHLINE -L- STA. 63+00
SEE SHEET 7-A

LINE ALL EXPOSED SOIL IN BASIN 6.4 AND ASSOCIATED TSD (TEMPORARY SILT DITCH) FROM -RPD- 13+10 TO 17+72 LT. WITH GEOMEMBRANE LINER TO PREVENT DISTURBANCE OF CONTAMINATED SOIL AREA

20 x 10 x 3
ID 7.1

25 x 11 x 3
ID 7.2

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

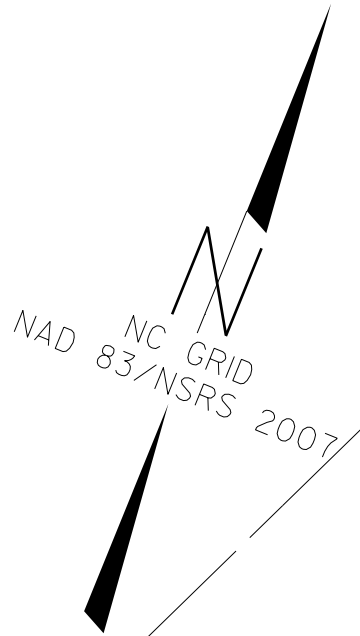
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

8/17/99
15-MAR-2017 15:04
P:\V\Projects\15000\1-5000-EC.dwg - psh07.dgn
PLT: 2/6/2017 10:23:52

PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-10/CONST.7A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

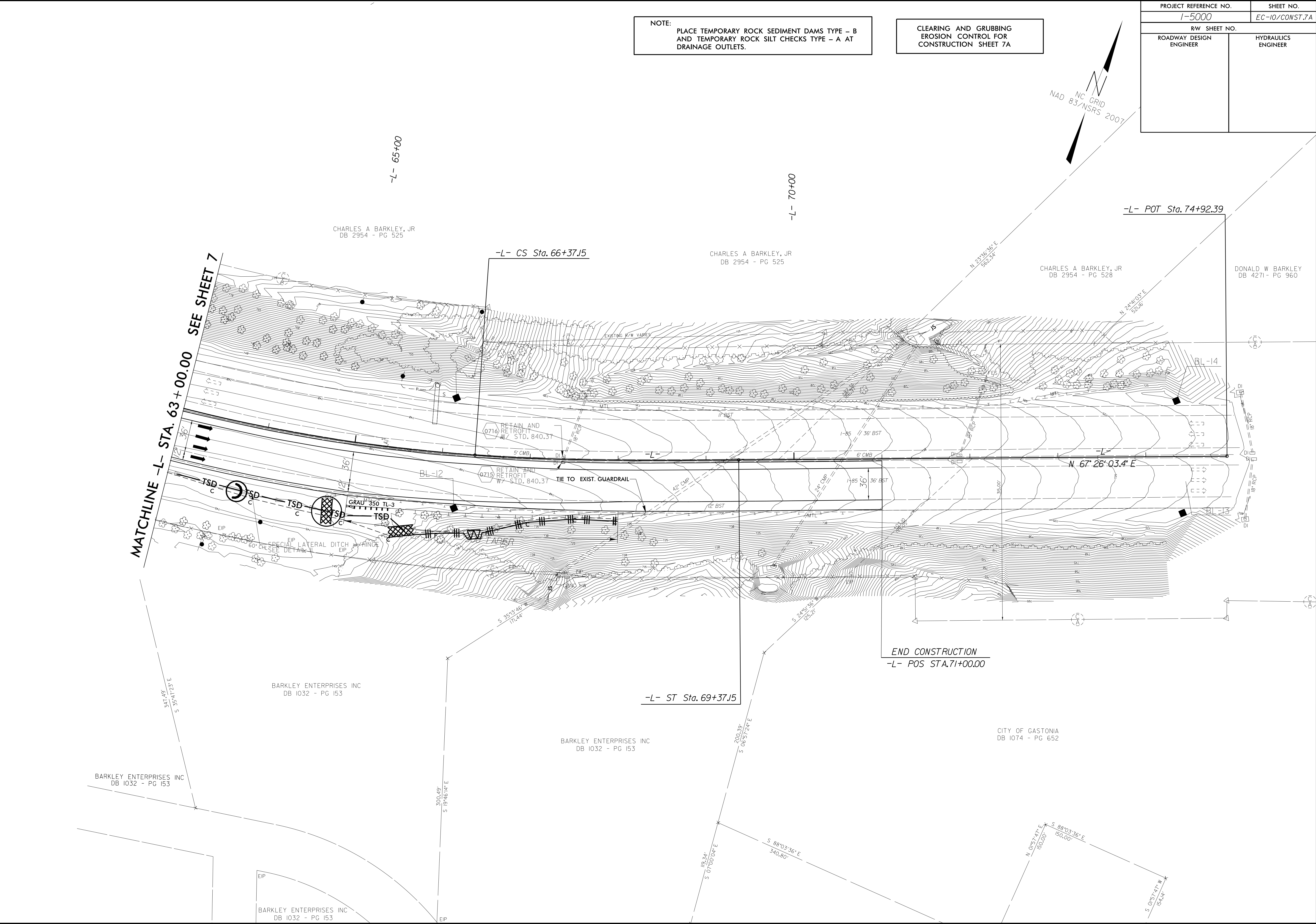
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7A



8/17/99

28-OCT-2016 11:20
R:\EC-10\Const\1-5000-EC.dgn - psh07a.dgn
PLOT



-L- 65+00

-L- 70+00

-L- POT Sta. 74+92.39

-L- CS Sta. 66+37.15

-L- ST Sta. 69+37.15

CHARLES A BARKLEY, JR
DB 2954 - PG 525

CHARLES A BARKLEY, JR
DB 2954 - PG 525

CHARLES A BARKLEY, JR
DB 2954 - PG 528

DONALD W BARKLEY
DB 4271 - PG 960

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

CITY OF GASTONIA
DB 1074 - PG 652

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

PROJECT REFERENCE NO.	SHEET NO.
I-5000	EC-II/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

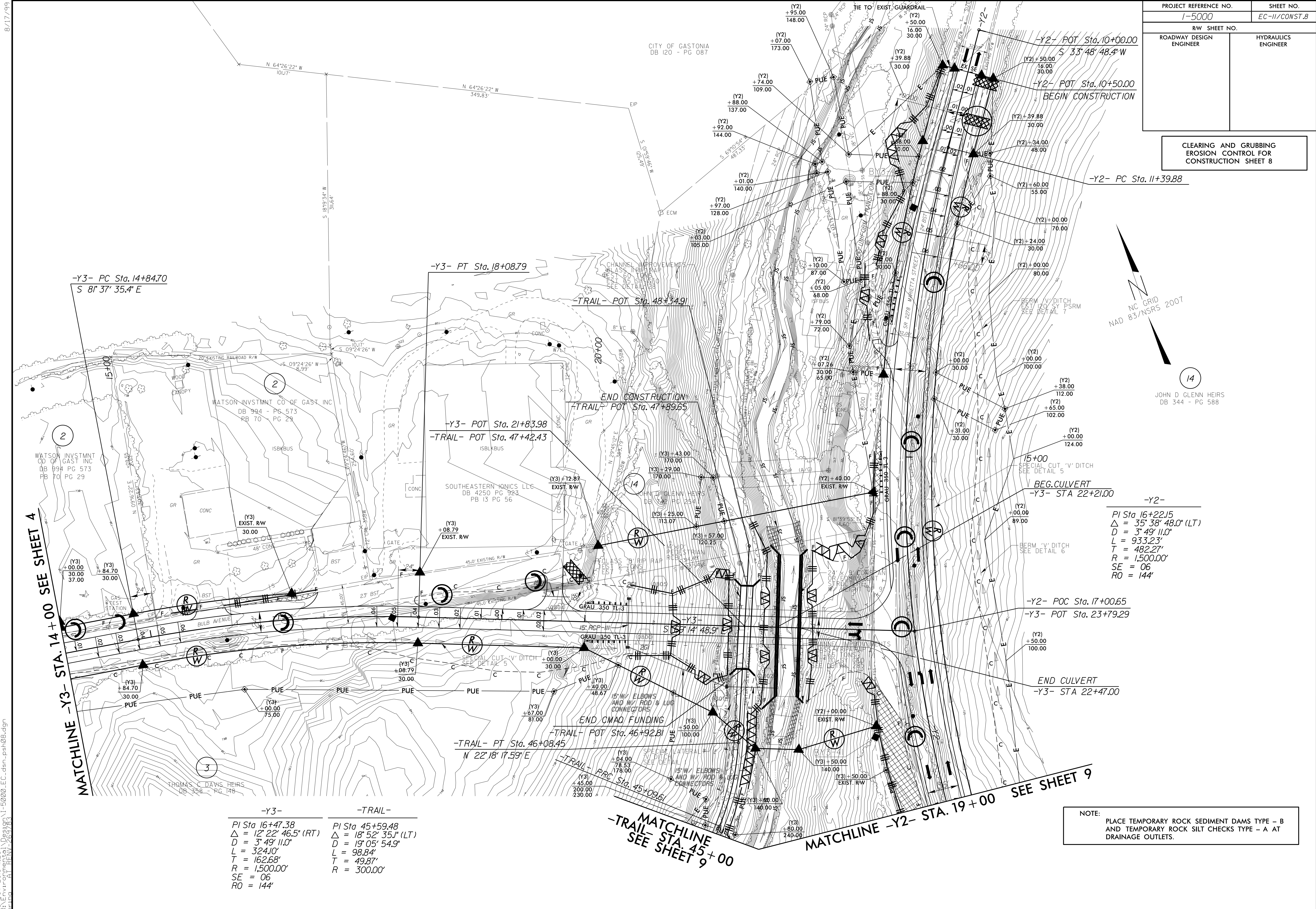


14
JOHN D GLENN HEIRS
DB 344 - PG 588

-Y2-
PI Sta 16+22.15
Δ = 35° 38' 48.0" (LT)
D = 3' 49' 11.0"
L = 933.23'
T = 482.27'
R = 1,500.00'
SE = 06
RO = 144'

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

-Y3-	-TRAIL-
PI Sta 16+47.38	PI Sta 45+59.48
Δ = 12° 22' 46.5" (RT)	Δ = 18° 52' 35.1" (LT)
D = 3' 49' 11.0"	D = 19' 05' 54.9"
L = 324.10'	L = 98.84'
T = 162.68'	T = 49.87'
R = 1,500.00'	R = 300.00'
SE = 06	
RO = 144'	

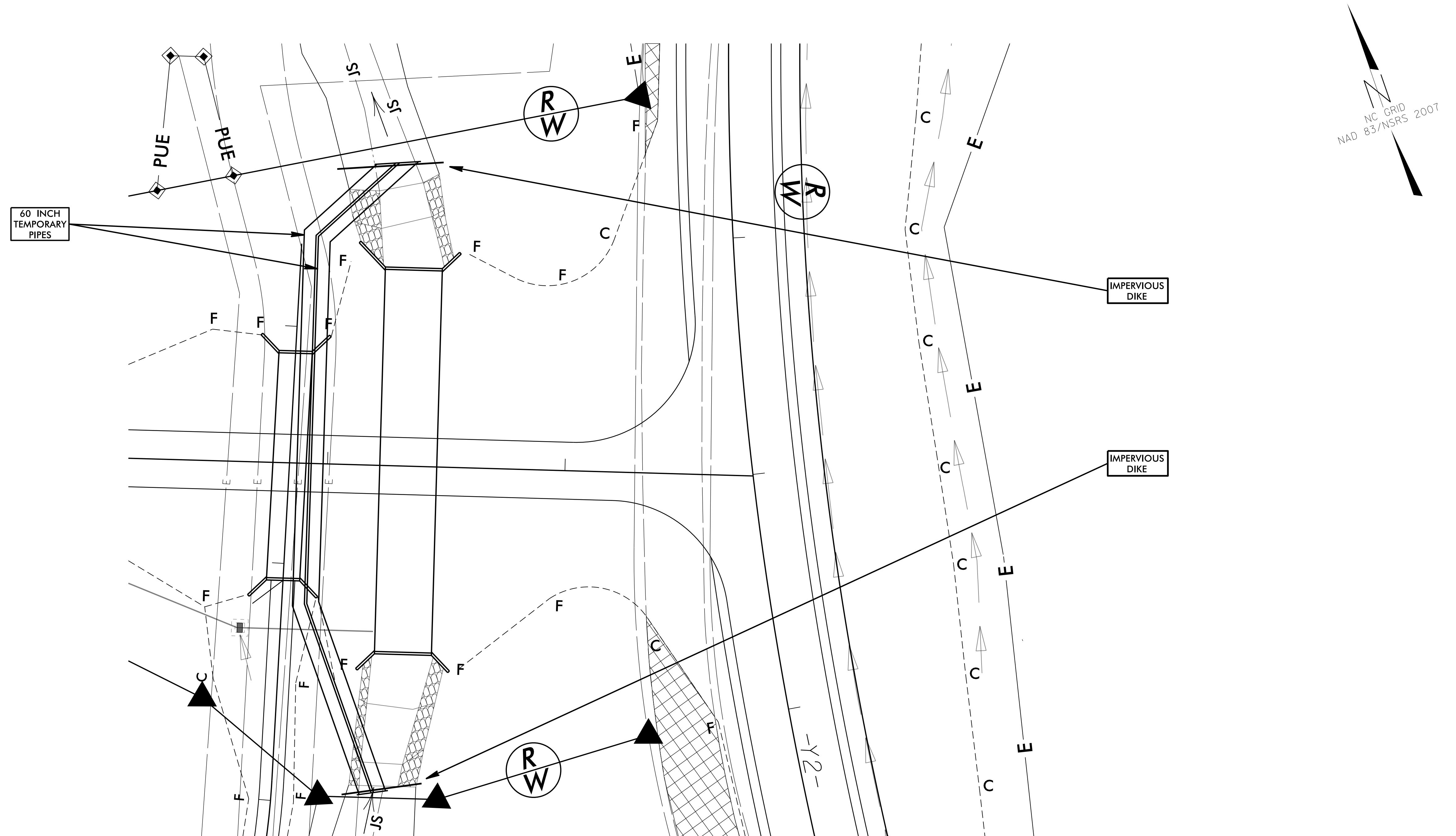


8/17/99
 28-OCT-2016 11:26
 I:\Projects\2016\I-5000\EC.dwg
 User: jason.psh08
 Plot: EC-II/CONST.8

PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-12/CONST.B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

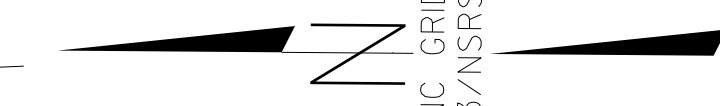
CULVERT CONSTRUCTION SEQUENCE STA. 22+34 -Y3-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 60 INCH TEMPORARY PIPES, DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT AND INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND 60 INCH TEMPORARY PIPES, ALLOWING NORMAL FLOW THROUGH PROPOSED CULVERT.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S), AND COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
1-5000	EC-13/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID
NAD 83/NSRS 2007

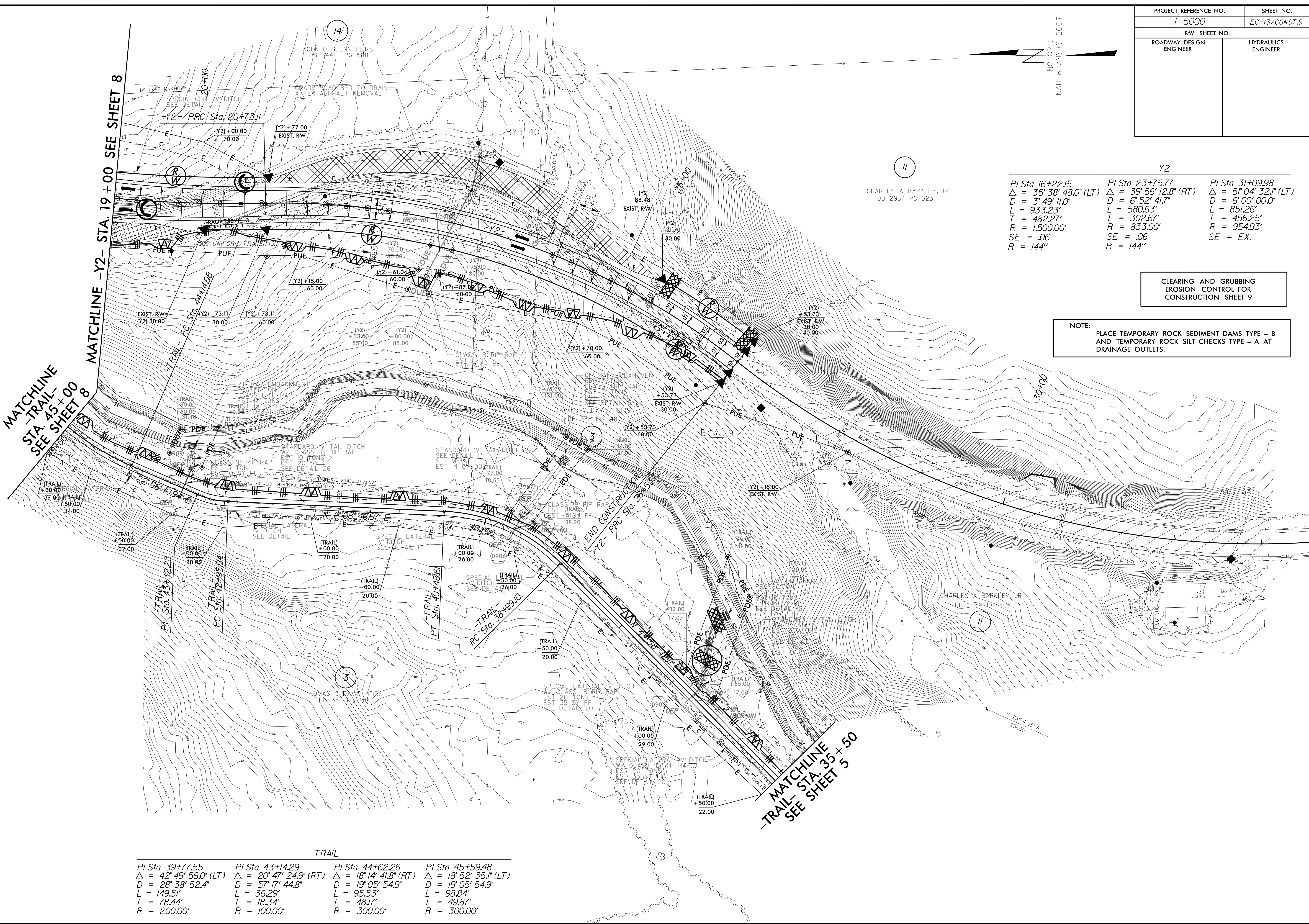


-Y2-

PI Sta 16+22.15 $\Delta = 35^{\circ} 38' 48.0''$ (LT) $D = 3' 49' 11.0''$ $L = 933.23'$ $T = 482.27'$ $R = 1,500.00'$ $SE = .06$ $R = 144''$	PI Sta 23+75.77 $\Delta = 39^{\circ} 56' 12.8''$ (RT) $D = 6' 52' 41.7''$ $L = 580.63'$ $T = 302.67'$ $R = 833.00'$ $SE = .06$ $R = 144''$	PI Sta 31+09.98 $\Delta = 51^{\circ} 04' 32.1''$ (LT) $D = 6' 00' 00.0''$ $L = 851.26'$ $T = 456.25'$ $R = 954.93'$ $SE = EX.$ $R = 144''$
---	---	---

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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



-TRAIL-

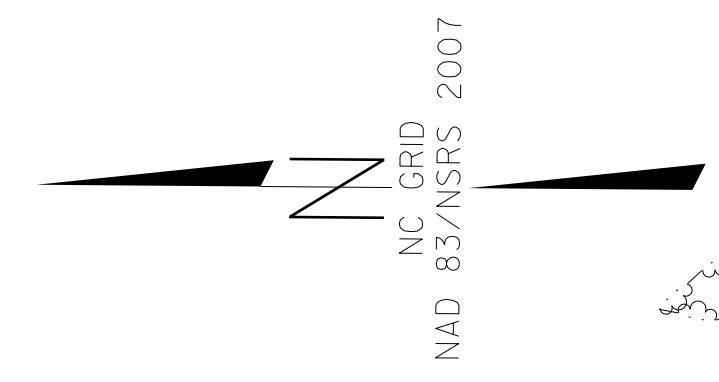
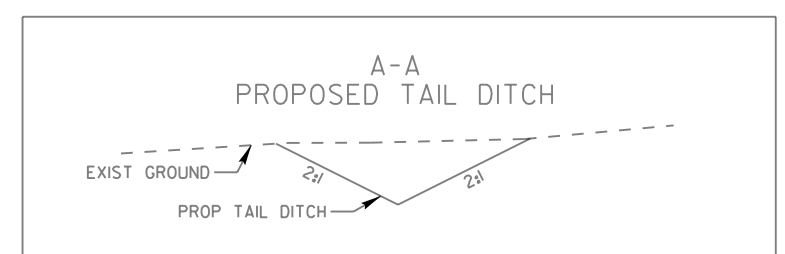
PI Sta 39+77.55 $\Delta = 42^{\circ} 49' 56.0''$ (LT) $D = 28' 38' 52.4''$ $L = 149.51'$ $T = 78.44'$ $R = 200.00'$	PI Sta 43+14.29 $\Delta = 20^{\circ} 47' 24.9''$ (RT) $D = 57' 17' 44.8''$ $L = 36.29'$ $T = 18.34'$ $R = 100.00'$	PI Sta 44+62.26 $\Delta = 18^{\circ} 14' 41.8''$ (RT) $D = 19' 05' 54.9''$ $L = 95.53'$ $T = 48.17'$ $R = 300.00'$	PI Sta 45+59.48 $\Delta = 18^{\circ} 52' 35.1''$ (LT) $D = 19' 05' 54.9''$ $L = 98.84'$ $T = 49.87'$ $R = 300.00'$
--	---	---	---

8/17/99

26-OCT-2016 11:34 AM
 C:\Users\j... \Desktop\1-5000-EC.dwg - psh09.dgn
 CALDWELL

PROJECT REFERENCE NO.	SHEET NO.
I-5000	EC-14/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



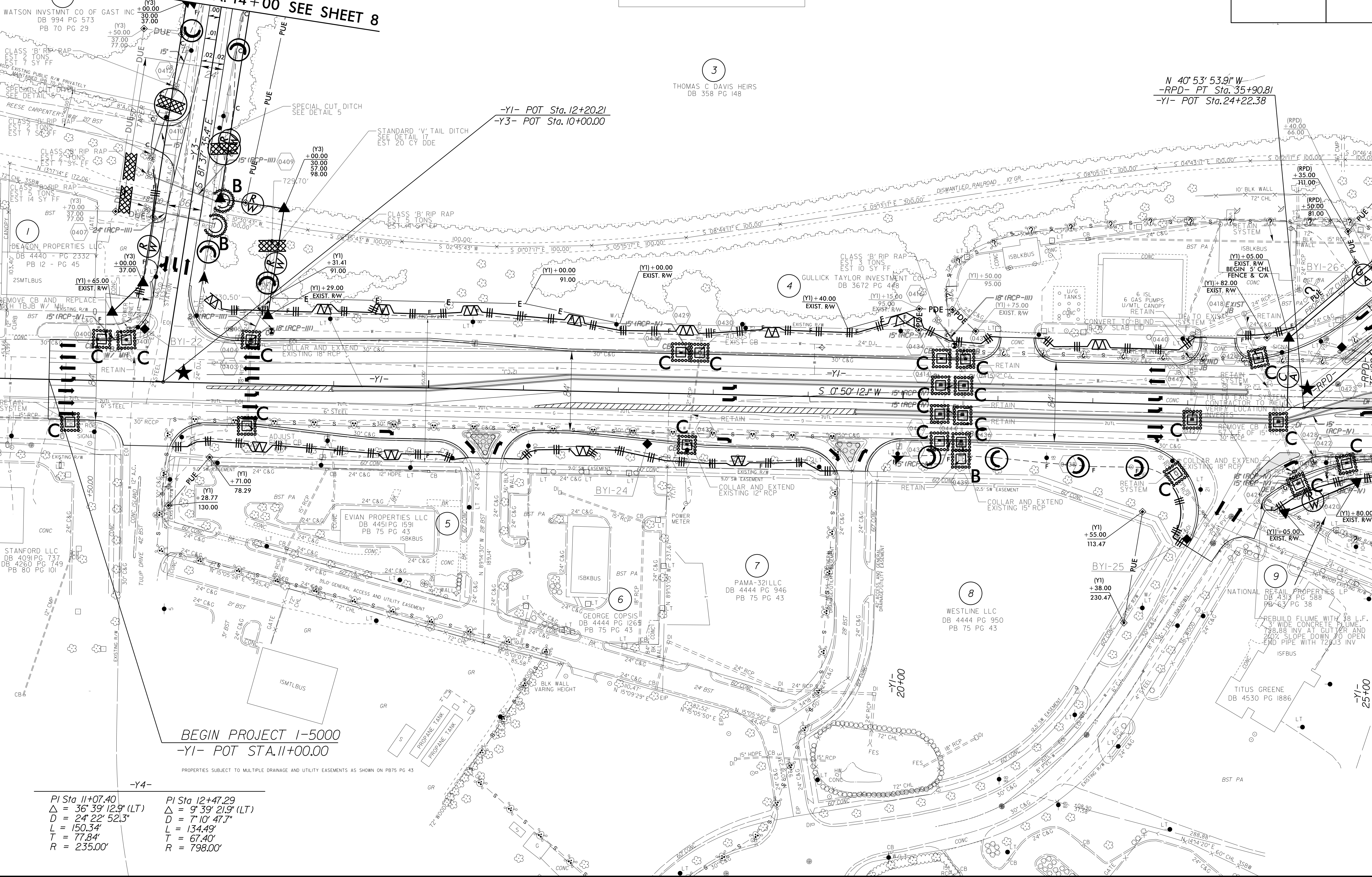
MATCHLINE -Y3- STA. 14+00 SEE SHEET 8

3
THOMAS C DAVIS HEIRS
DB 358 PG 148

N 40° 53' 53.91" W
-RPD- PT Sta. 35+90.81
-Y1- POT Sta. 24+22.38

-Y1- POT Sta. 12+20.21
-Y3- POT Sta. 10+00.00

MATCHLINE -Y1- STA. 25+00 SEE SHEET 5



BEGIN PROJECT I-5000
-Y1- POT STA. 11+00.00

-Y4-
PI Sta 11+07.40
Δ = 36° 39' 12.9" (LT)
D = 24' 22' 52.3"
L = 150.34'
T = 77.84'
R = 235.00'

PI Sta 12+47.29
Δ = 9° 39' 21.9" (LT)
D = 7' 10' 47.7"
L = 134.49'
T = 67.40'
R = 798.00'

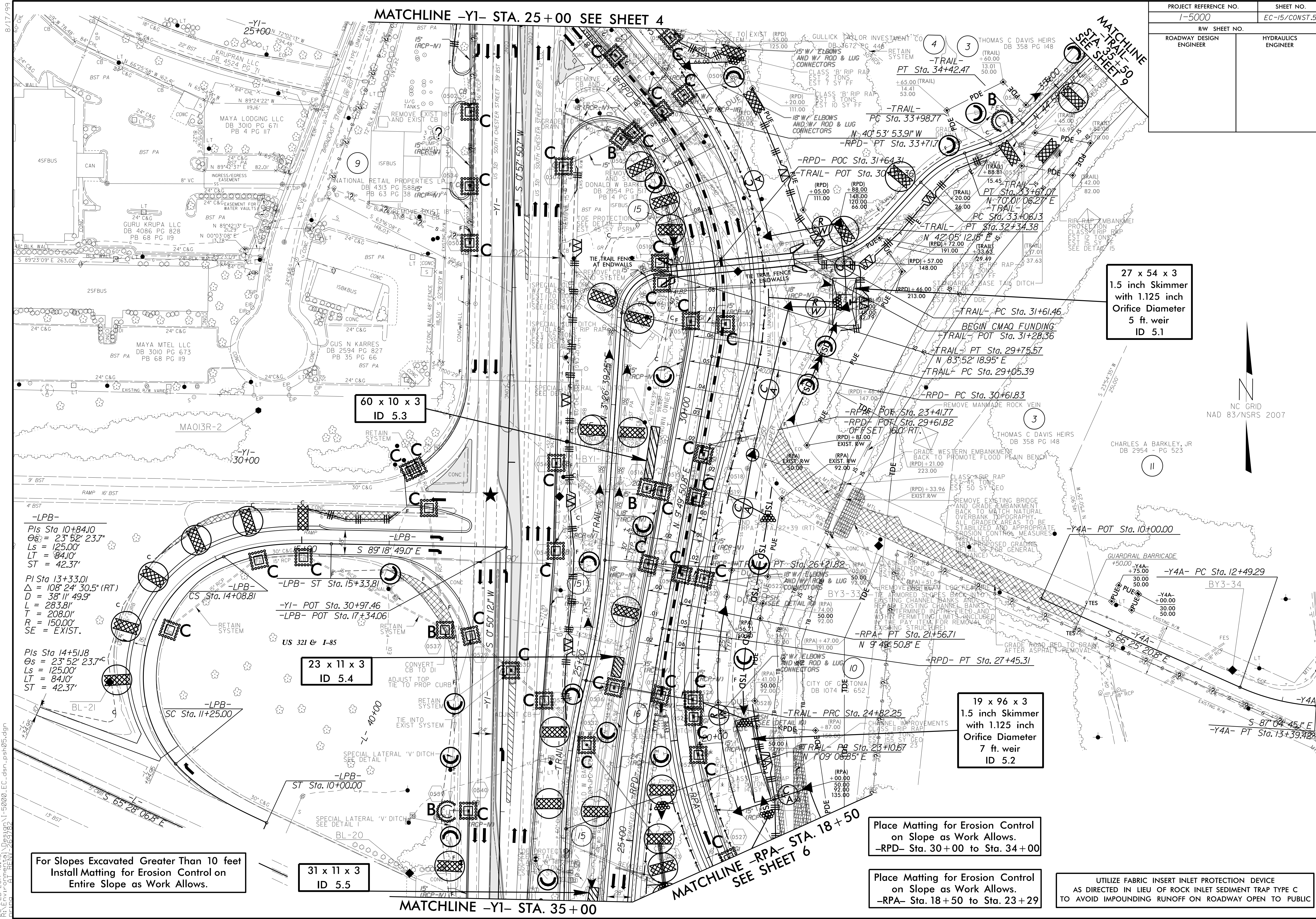
8/17/99

28-OCT-2016 09:37 Designer: I-5000-EC.dwg - psh04.dgn
Checked: J. H. H. 2/6/2013

PROJECT REFERENCE NO.	SHEET NO.
1-5000	EC-15/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE -Y1- STA. 25+00 SEE SHEET 4

MATCHLINE -Y1- STA. 35+50 SEE SHEET 9



27 x 54 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
5 ft. weir
ID 5.1

60 x 10 x 3
ID 5.3

23 x 11 x 3
ID 5.4

19 x 96 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
7 ft. weir
ID 5.2

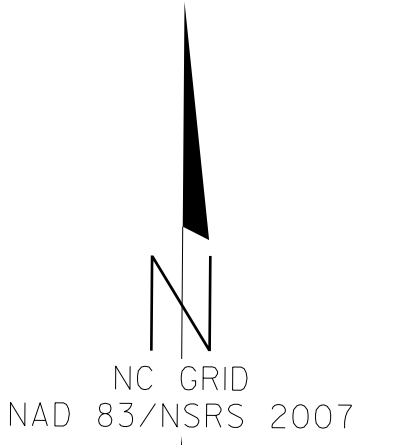
31 x 11 x 3
ID 5.5

For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.

Place Matting for Erosion Control
on Slope as Work Allows.
-RPD- Sta. 30+00 to Sta. 34+00

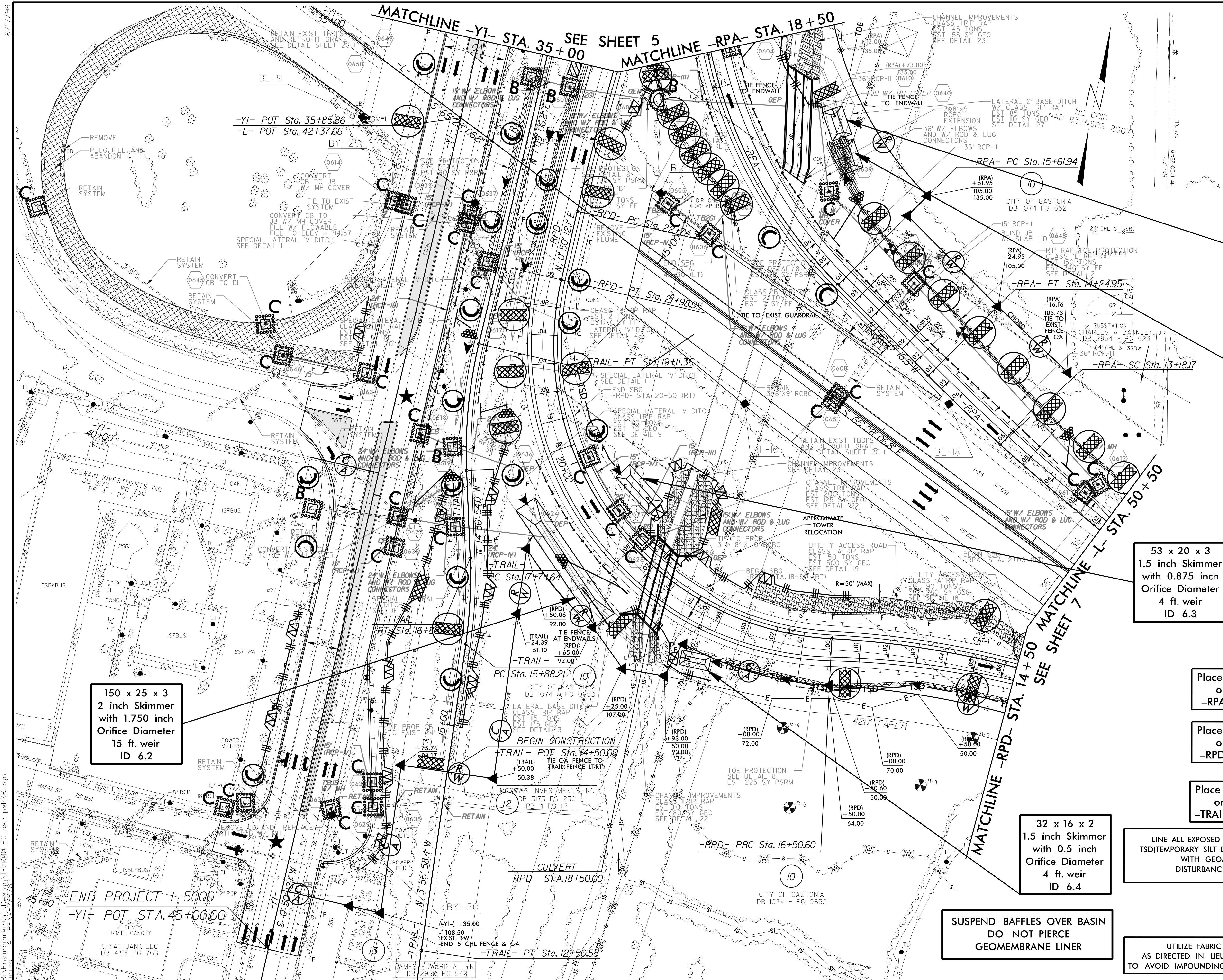
Place Matting for Erosion Control
on Slope as Work Allows.
-RPA- Sta. 18+50 to Sta. 23+29

UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



8/17/19 20-FEB-2017 16:45 \\Design\1-5000\EC.dwg - psh05.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-5000	EC-16/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



35 x 22 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 6.1

Modified Silt Basin
Type 'B'
35 x 22 x 3
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 6.1

53 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 6.3

150 x 25 x 3
2 inch Skimmer
with 1.750 inch
Orifice Diameter
15 ft. weir
ID 6.2

Place Matting for Erosion Control
on Slope as Work Allows.
-RPA- Sta. 12+50 to Sta. 18+50

Place Matting for Erosion Control
on Slope as Work Allows.
-RPD- Sta. 14+50 to Sta. 20+00

Place Matting for Erosion Control
on Slope as Work Allows.
-TRAIL- Sta. 17+30 to Sta. 22+00

LINE ALL EXPOSED SOIL IN BASIN 6.4 AND ASSOCIATED
TSD (TEMPORARY SILT DITCH) FROM -RPD- 13+10 TO 17+72 LT.
WITH GEOMEMBRANE LINER TO PREVENT
DISTURBANCE OF CONTAMINATED SOIL AREA

32 x 16 x 2
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 6.4

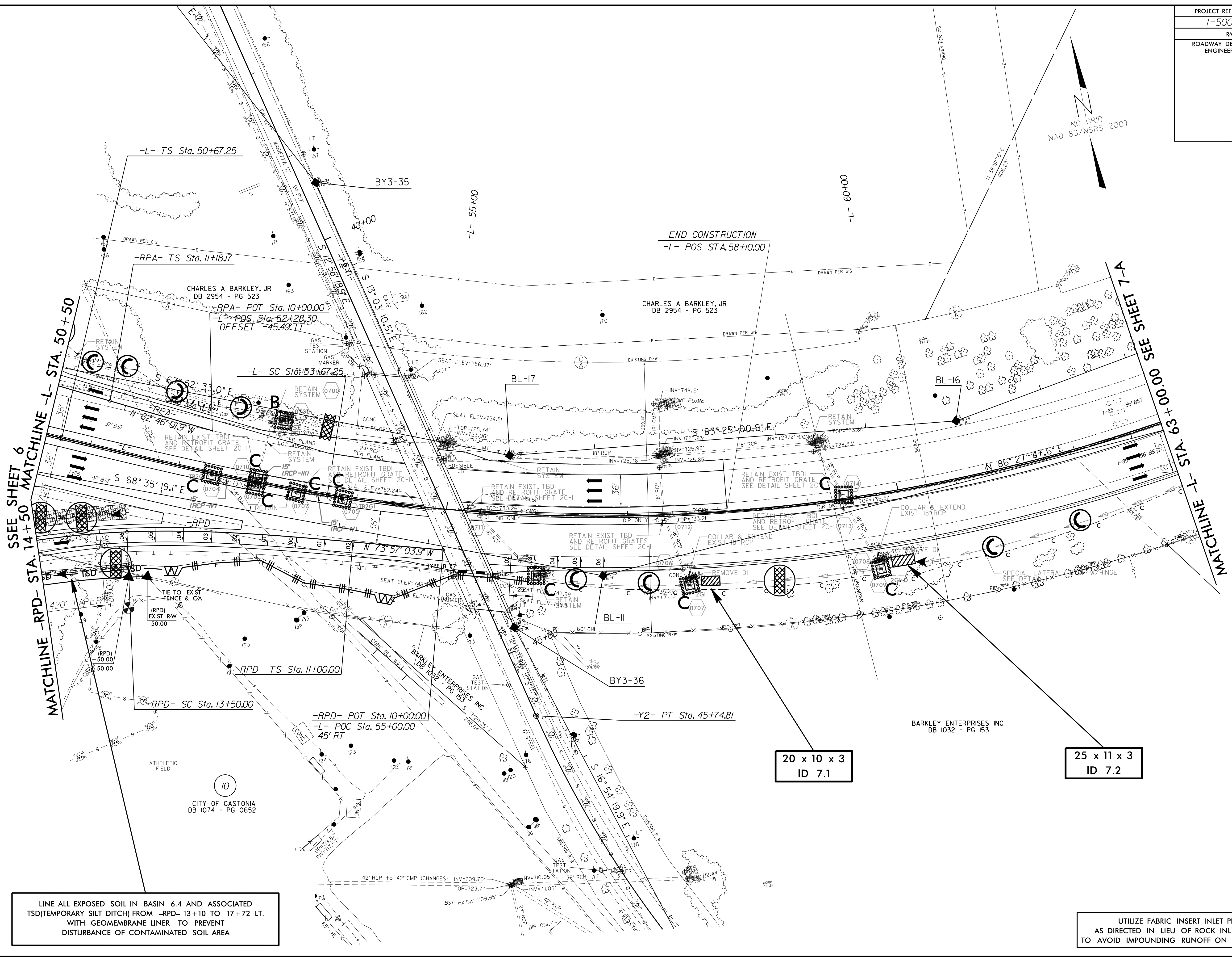
SUSPEND BAFFLES OVER BASIN
DO NOT PIERCE
GEOMEMBRANE LINER

UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

8/17/1995
I:\MAR-2011\5266\Drawings\I-5000-EC.dwg - psh06.dgn
REV: 1-11-11
DATE: 11/11/11
BY: JAC

PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-17/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID
NAD 83/NSRS 2007



SSEE SHEET 6
MATCHLINE -L- STA. 50+50
MATCHLINE -RPA- STA. 14+50

MATCHLINE -L- STA. 63+00.00
SEE SHEET 7-A

LINE ALL EXPOSED SOIL IN BASIN 6.4 AND ASSOCIATED TSD (TEMPORARY SILT DITCH) FROM -RPD- 13+10 TO 17+72 LT. WITH GEOMEMBRANE LINER TO PREVENT DISTURBANCE OF CONTAMINATED SOIL AREA

UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

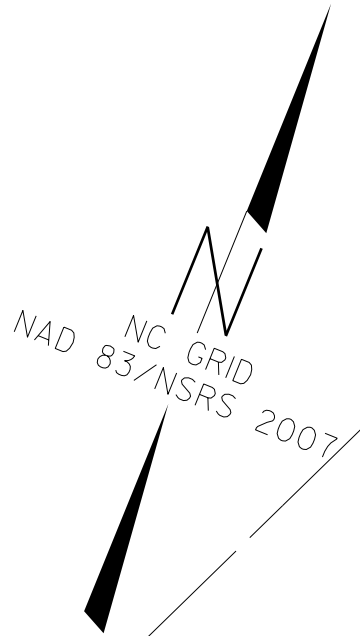
20 x 10 x 3
ID 7.1

25 x 11 x 3
ID 7.2

8/17/99

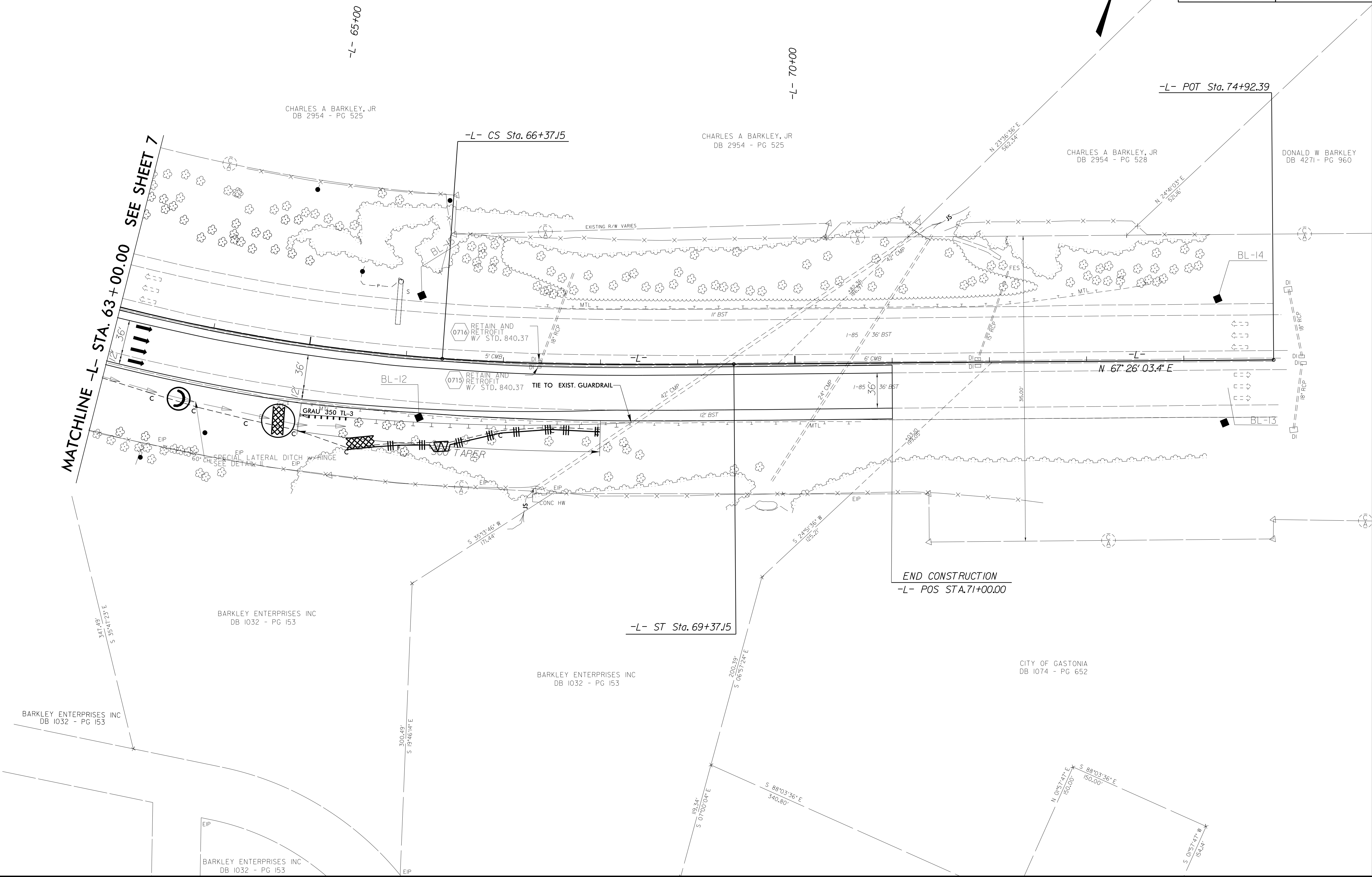
15-MAR-2017 14:45
P:\Projects\2017\15-5000-EC.dwg - psh07.dgn
PLOT

PROJECT REFERENCE NO. 1-5000	SHEET NO. EC-18/CONST.7A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 63+00.00 SEE SHEET 7

8/17/99
28-OCT-2016 11:2
R:\EC-18\Const\1-5000-EC.dgn - psh07a.dgn
PLOT



CHARLES A BARKLEY, JR
DB 2954 - PG 525

CHARLES A BARKLEY, JR
DB 2954 - PG 525

CHARLES A BARKLEY, JR
DB 2954 - PG 528

DONALD W BARKLEY
DB 4271 - PG 960

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

CITY OF GASTONIA
DB 1074 - PG 652

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

BARKLEY ENTERPRISES INC
DB 1032 - PG 153

RETAIN AND RETROFIT
W/ STD. 840.37

RETAIN AND RETROFIT
W/ STD. 840.37

GRAU 350 TL-3

END CONSTRUCTION
-L- POS STA. 71+00.00

-L- CS Sta. 66+37.15

-L- ST Sta. 69+37.15

-L- POT Sta. 74+92.39

N 67° 26' 03.4" E

-L- 65+00

-L- 70+00

347.49'
S 35° 41' 23" E

300.49'
S 19° 46' 14" E

193.34'
S 07° 00' 04" E

340.80'
S 88° 03' 36" E

150.00'
S 88° 03' 36" E

164.14'
S 01° 57' 57" W

0716

0719

BL-14

BL-13

BL-12

TIE TO EXIST. GUARDRAIL

SPECIAL LATERAL DITCH WITH HINGE
SEE DETAIL II

CONC HW

EXISTING R/W VARIES

1-85 36' BST

1-85 36' BST

42' CMP

24' CMP

15' REG

15' REG

15' REG

15' REG

15' REG

15' REG

15' REG

15' REG

15' REG

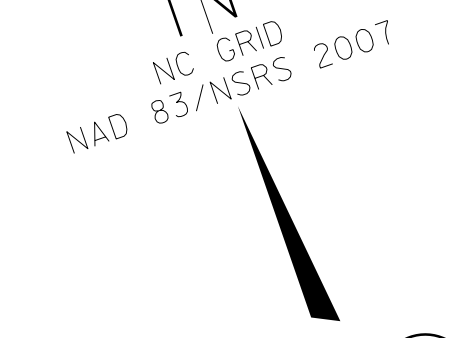
15' REG

15' REG

15' REG

15' REG

PROJECT REFERENCE NO.	SHEET NO.
I-5000	EC-19/CONST.B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



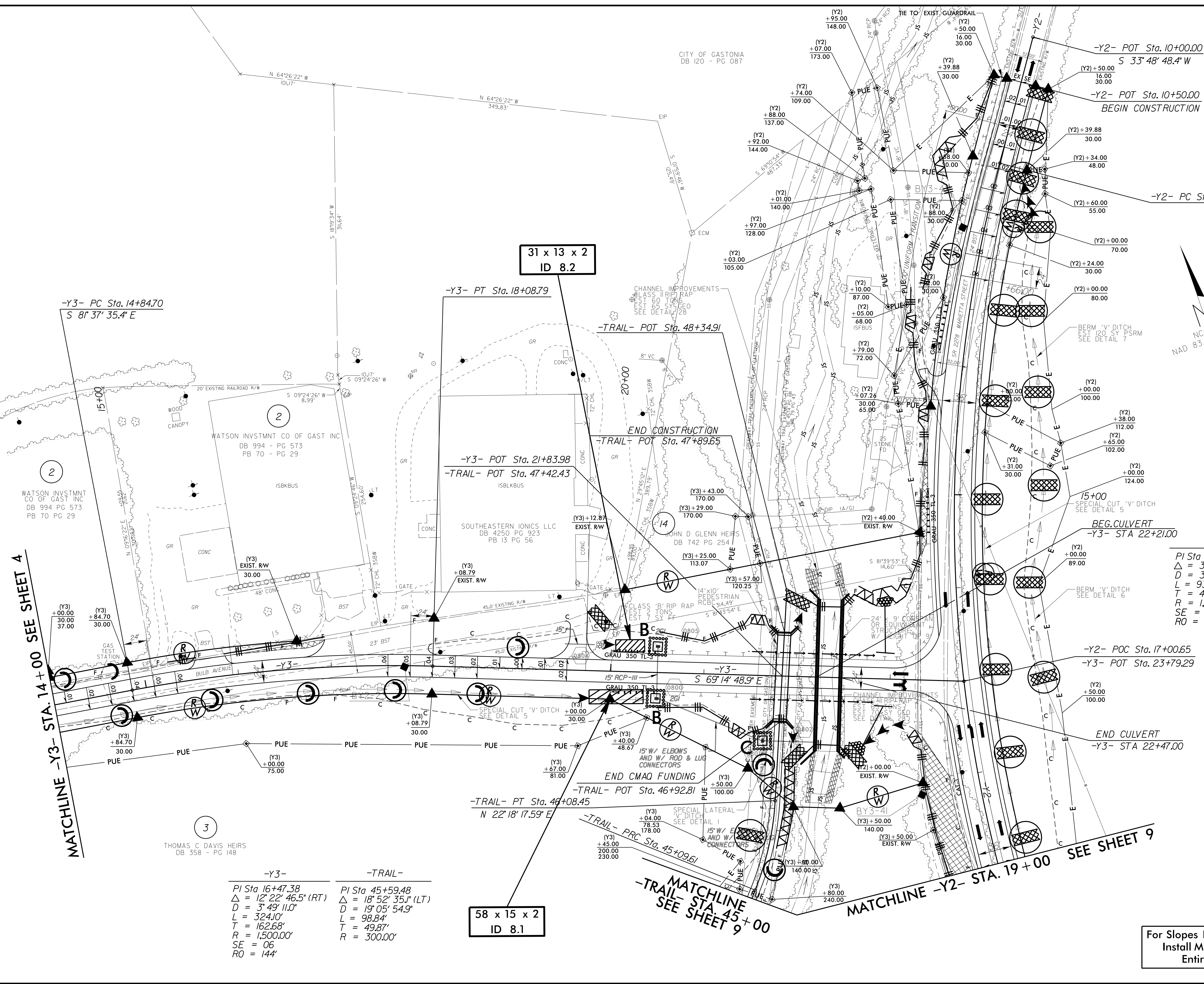
14
JOHN D GLENN HEIRS
DB 344 - PG 588

-Y2-
PI Sta 16+22.15
Δ = 35° 38' 48.0" (LT)
D = 3' 49' 11.0"
L = 933.23'
T = 482.27'
R = 1,500.00'
SE = 06
RO = 144'

For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.

8/17/99

01/NOV/2016 16:21
 P:\EC\19\Const\1-5000-EC.dwg - psh08.dgn
 P:\EC\19\Const\1-5000-EC.dwg - psh08.dgn
 P:\EC\19\Const\1-5000-EC.dwg - psh08.dgn



MATCHLINE -Y3- STA. 14+00 SEE SHEET 4

MATCHLINE -Y2- STA. 19+00 SEE SHEET 9

-Y3- PI Sta 16+47.38 Δ = 12° 22' 46.5" (RT) D = 3' 49' 11.0" L = 324.10' T = 162.68' R = 1,500.00' SE = 06 RO = 144'	-TRAIL- PI Sta 45+59.48 Δ = 18° 52' 35.1" (LT) D = 19' 05' 54.9" L = 98.84' T = 49.87' R = 300.00'
--	--

58 x 15 x 2
ID 8.1

31 x 13 x 2
ID 8.2

PROJECT REFERENCE NO. I-5000	SHEET NO. EC-20/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID
NAD 83/NSRS 2007

-Y2-

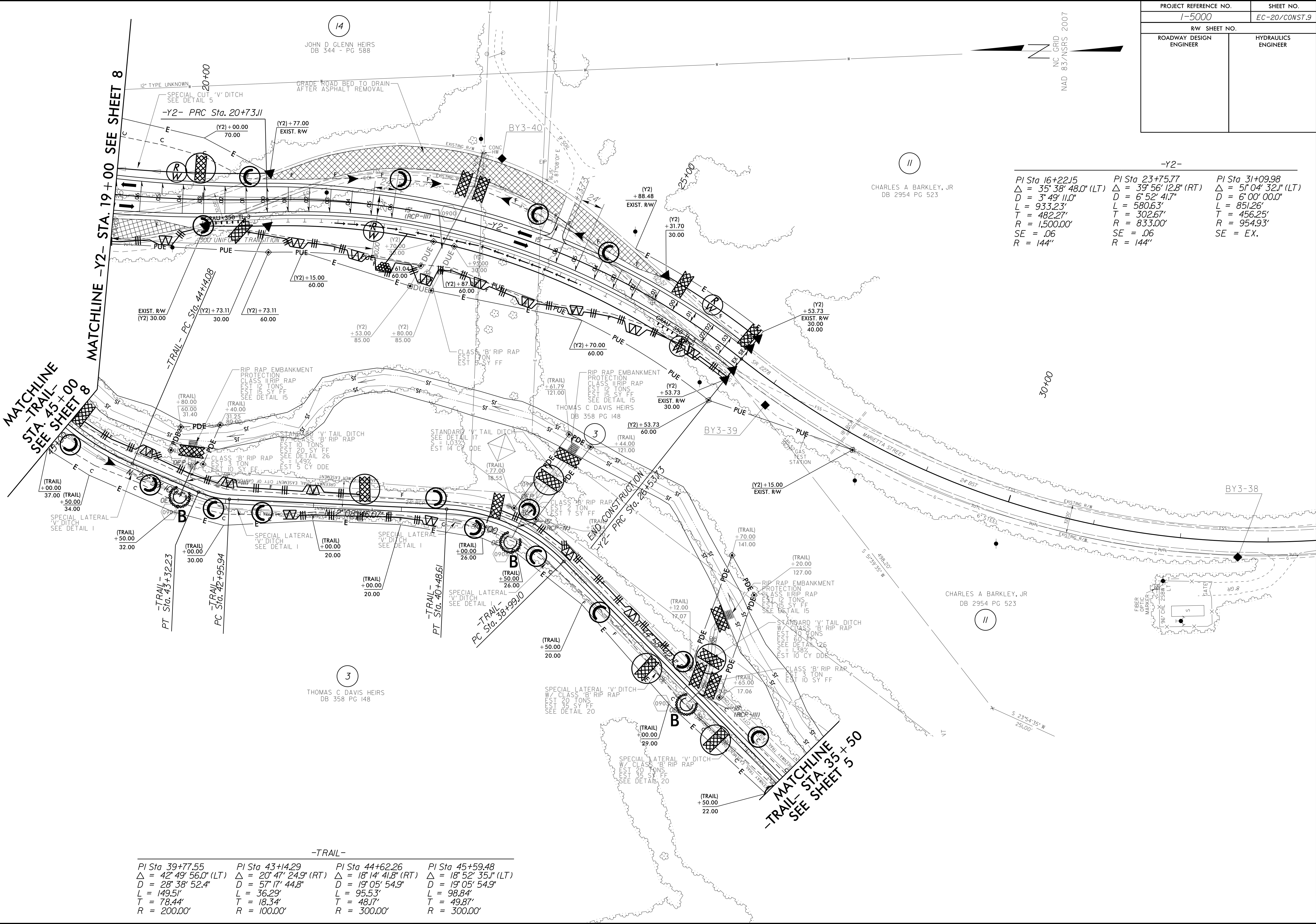
PI Sta 16+22.15 $\Delta = 35^{\circ} 38' 48.0''$ (LT) $D = 3' 49' 11.0''$ $L = 933.23'$ $T = 482.27'$ $R = 1,500.00'$ $SE = .06$ $R = 144''$	PI Sta 23+75.77 $\Delta = 39^{\circ} 56' 12.8''$ (RT) $D = 6' 52' 41.7''$ $L = 580.63'$ $T = 302.67'$ $R = 833.00'$ $SE = .06$ $R = 144''$	PI Sta 31+09.98 $\Delta = 51^{\circ} 04' 32.1''$ (LT) $D = 6' 00' 00.0''$ $L = 851.26'$ $T = 456.25'$ $R = 954.93'$ $SE = EX.$ $R = 144''$
---	---	---

-TRAIL-

PI Sta 39+77.55 $\Delta = 42^{\circ} 49' 56.0''$ (LT) $D = 28' 38' 52.4''$ $L = 149.51'$ $T = 78.44'$ $R = 200.00'$	PI Sta 43+14.29 $\Delta = 20^{\circ} 47' 24.9''$ (RT) $D = 57' 17' 44.8''$ $L = 36.29'$ $T = 18.34'$ $R = 100.00'$	PI Sta 44+62.26 $\Delta = 18^{\circ} 14' 41.8''$ (RT) $D = 19' 05' 54.9''$ $L = 95.53'$ $T = 48.17'$ $R = 300.00'$	PI Sta 45+59.48 $\Delta = 18^{\circ} 52' 35.1''$ (LT) $D = 19' 05' 54.9''$ $L = 98.84'$ $T = 49.87'$ $R = 300.00'$
--	---	---	---

8/17/99

20-FEB-2017 17:21
 P:\E-Projects\I-5000\1-5000-EC.dwg - psh09.dgn
 PLOT: 2/29/2017 10:41:00 AM



MATCHLINE - TRAIL -
 STA. 45+00
 SEE SHEET 8

MATCHLINE -Y2-
 STA. 19+00
 SEE SHEET 8

MATCHLINE - TRAIL -
 STA. 35+50
 SEE SHEET 5

14
 JOHN D. GLENN HEIRS
 DB 344 - PG 588

11
 CHARLES A. BARKLEY, JR.
 DB 2954 PG 523

3
 THOMAS C. DAVIS HEIRS
 DB 358 PG 148

11
 CHARLES A. BARKLEY, JR.
 DB 2954 PG 523