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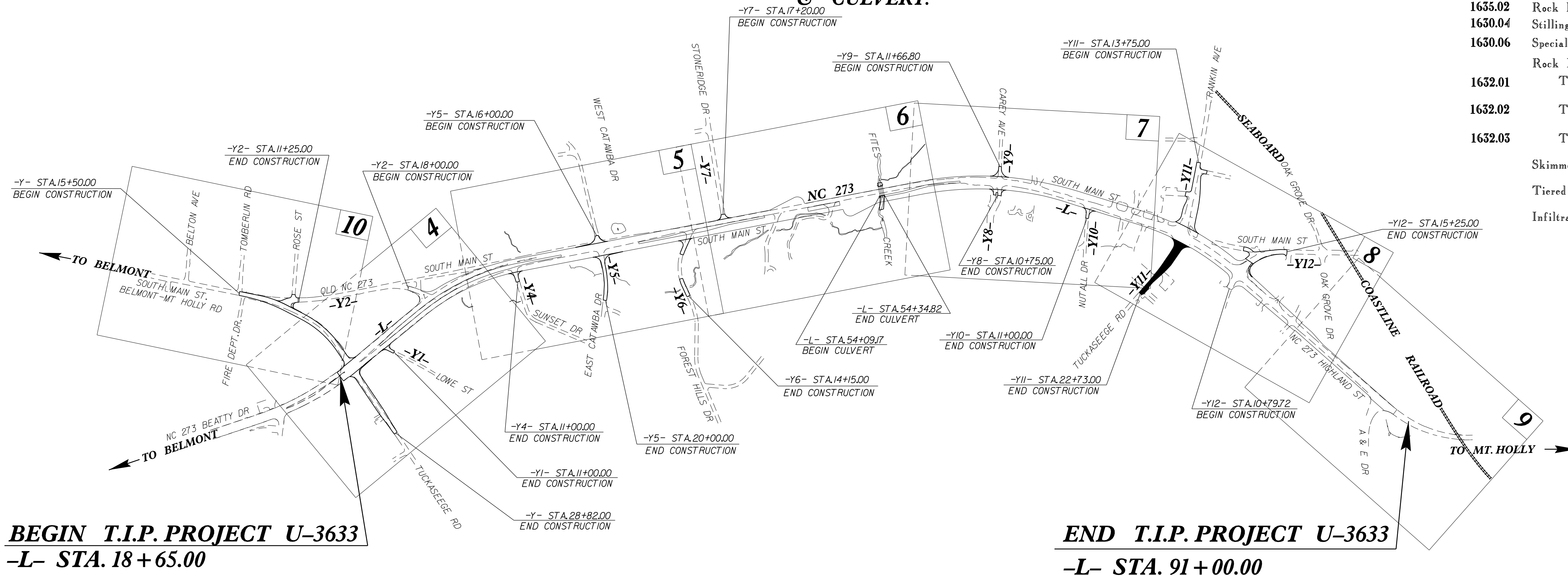
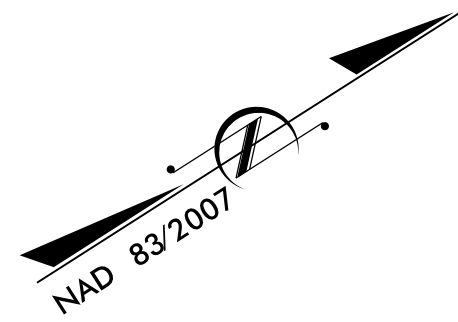
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TIP PROJECT: U-3633

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

**LOCATION: MOUNT HOLLY - NC 273 (SOUTH MAIN STREET) FROM
TUCKASEEGE ROAD AT BEATTY DRIVE TO HIGHLAND
STREET AT A&E DRIVE**

**TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING, RESURFACING,
& CULVERT.**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3633	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

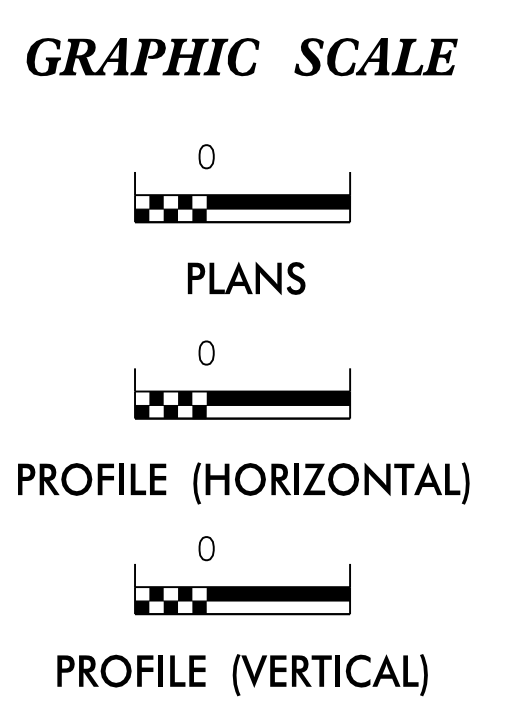
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	~ ~ ~ ~ ~
1622.01	Temporary Berms and Slope Drains	— T —
1630.02	Silt Basin Type B	[Symbol]
1633.01	Temporary Rock Silt Check Type-A	[Symbol]
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	[Symbol]
1633.02	Temporary Rock Silt Check Type-B	[Symbol]
	Wattle / Coir Fiber Wattle	[Symbol]
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	[Symbol]
1634.01	Temporary Rock Sediment Dam Type-A	[Symbol]
1634.02	Temporary Rock Sediment Dam Type-B	[Symbol]
1635.01	Rock Pipe Inlet Sediment Trap Type-A	[Symbol]
1635.02	Rock Pipe Inlet Sediment Trap Type-B	[Symbol]
1630.04	Stilling Basin	[Symbol]
1630.06	Special Stilling Basin	[Symbol]
	Rock Inlet Sediment Trap:	
1632.01	Type A	A [Symbol]
1632.02	Type B	B [Symbol]
1632.03	Type C	C [Symbol]
	Skimmer Basin	[Symbol]
	Tiered Skimmer Basin	[Symbol]
	Infiltration Basin	[Symbol]

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

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

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



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.**

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

2012 STANDARD SPECIFICATIONS

Designed by:
Wes Chandler 3374
NAME LEVEL III CERTIFICATION NO.

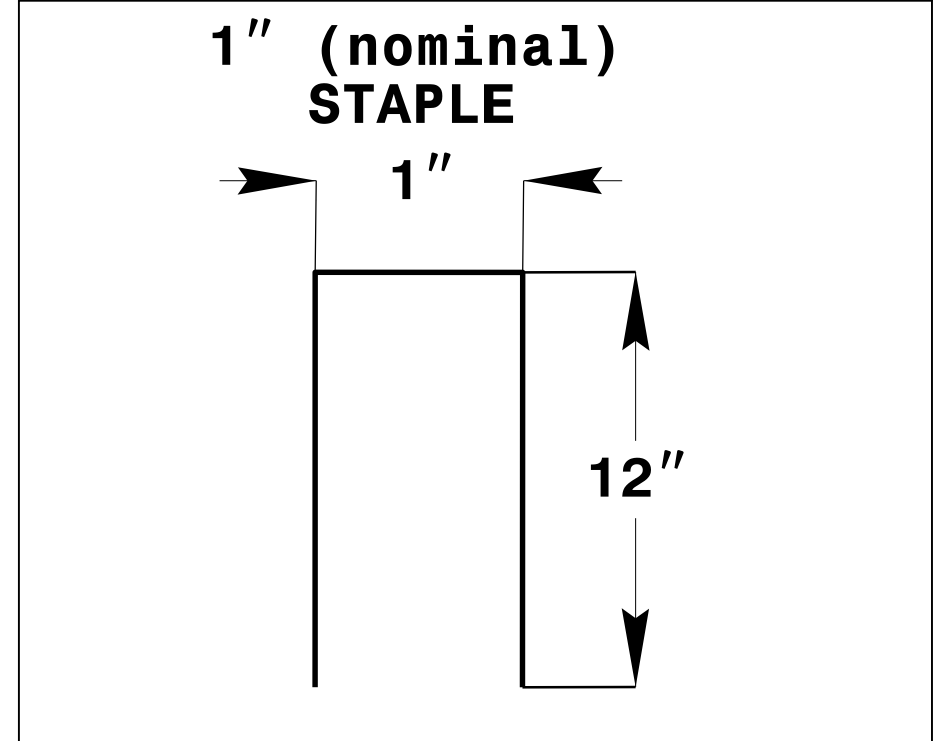
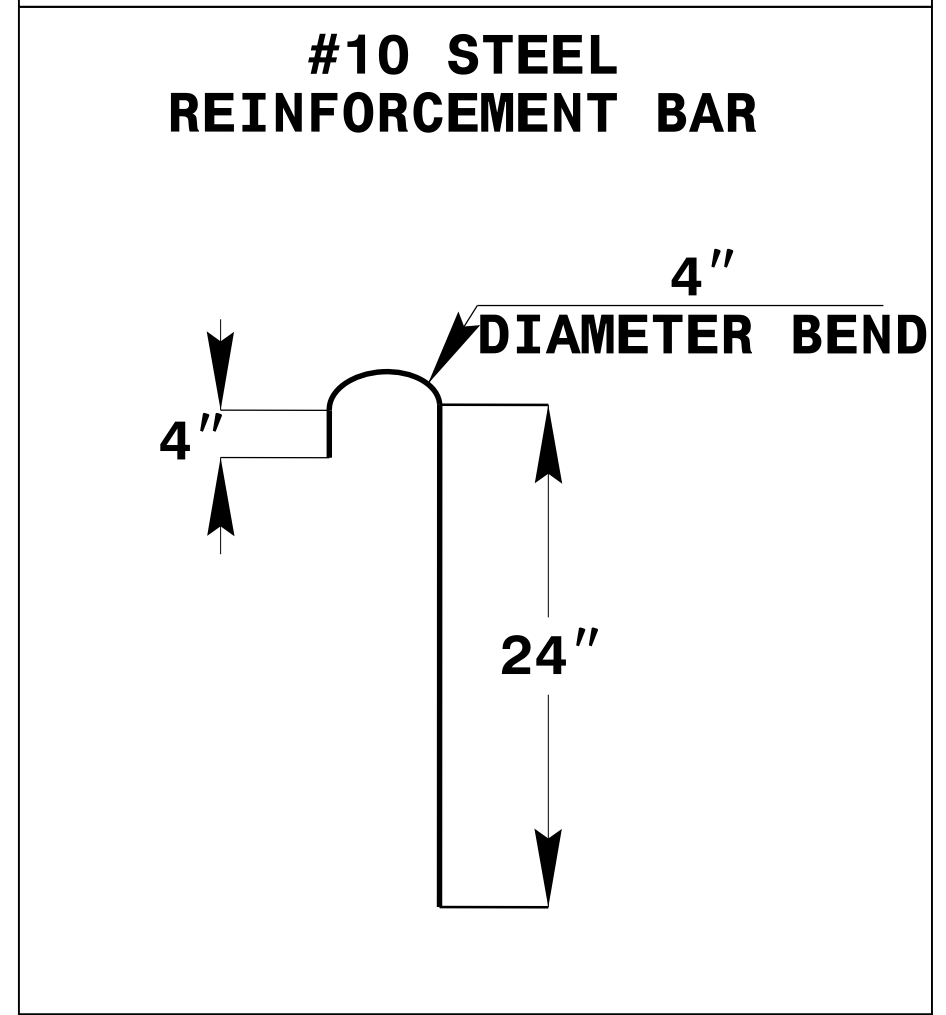
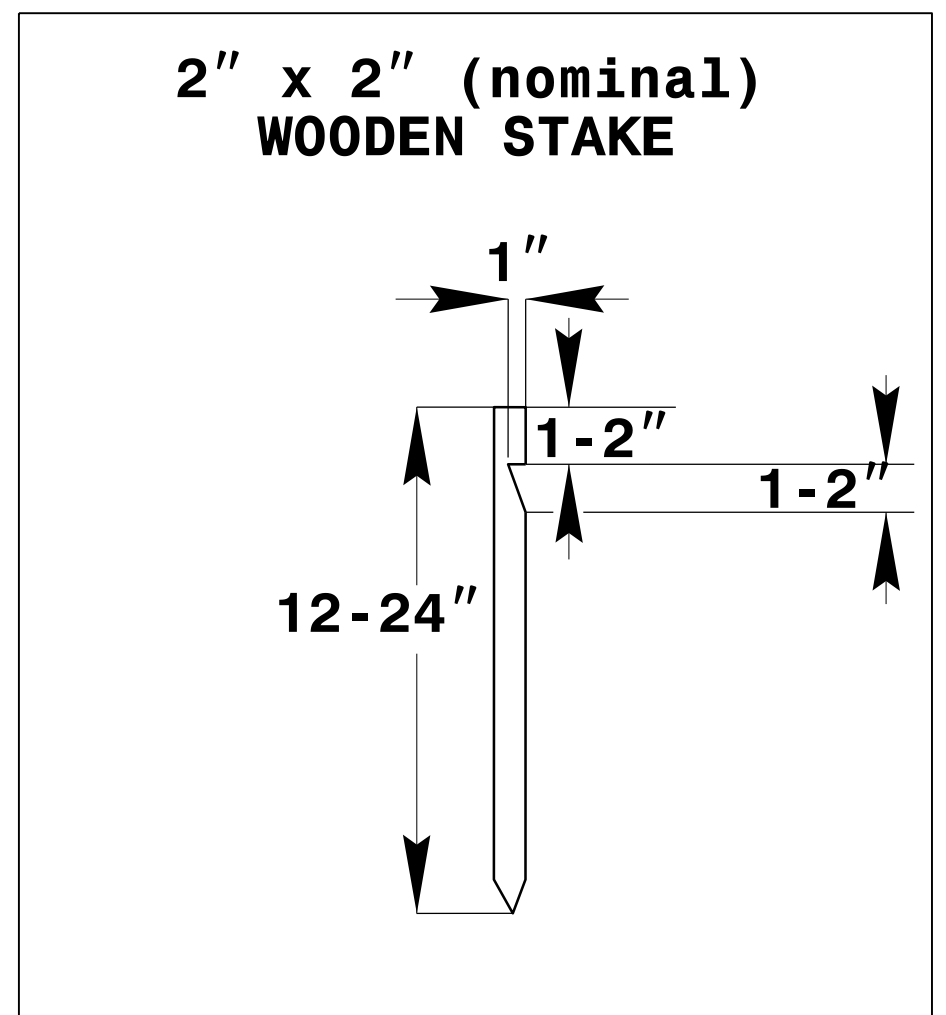
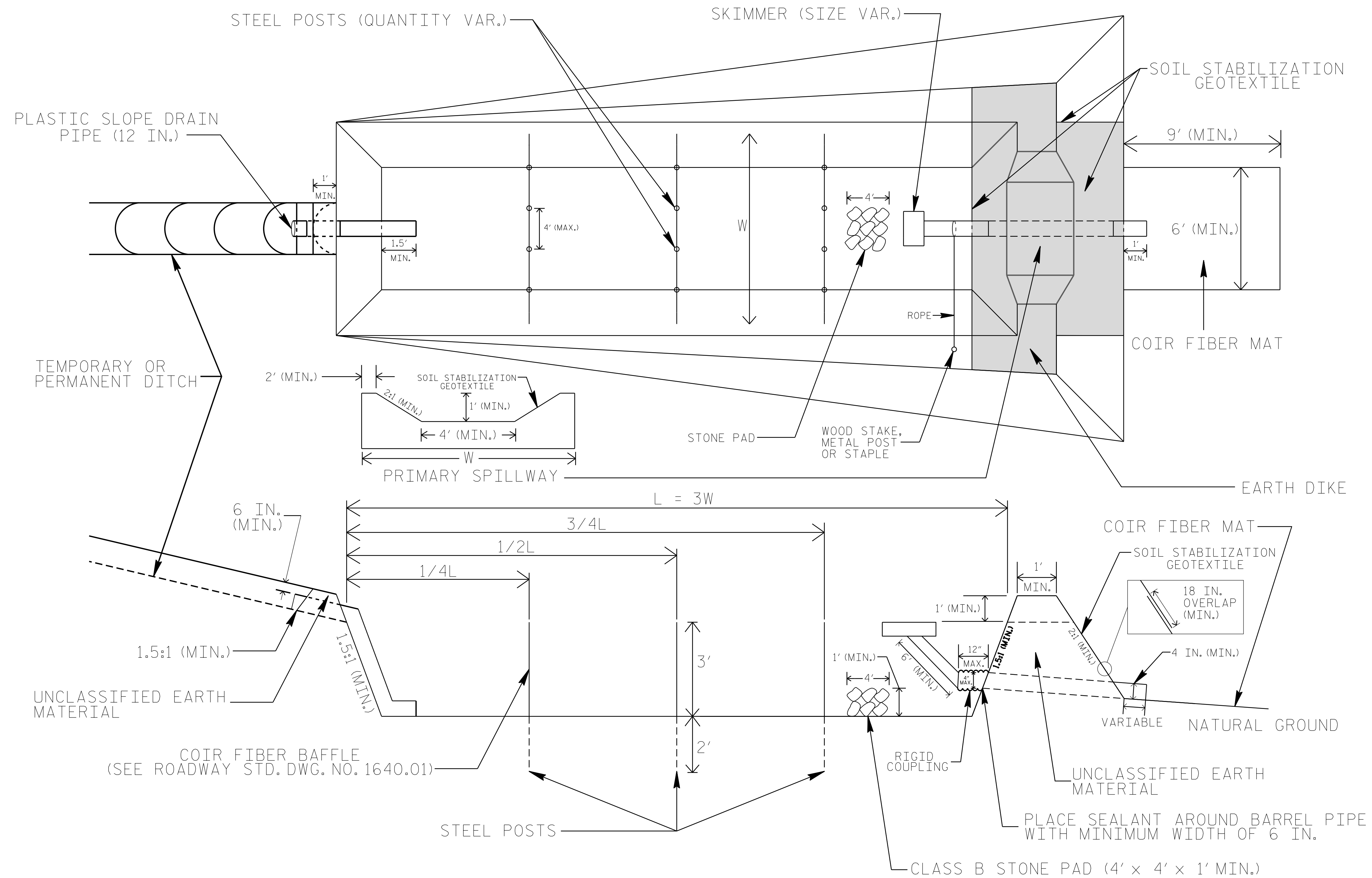
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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

PROJECT REFERENCE NO. U-3633	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

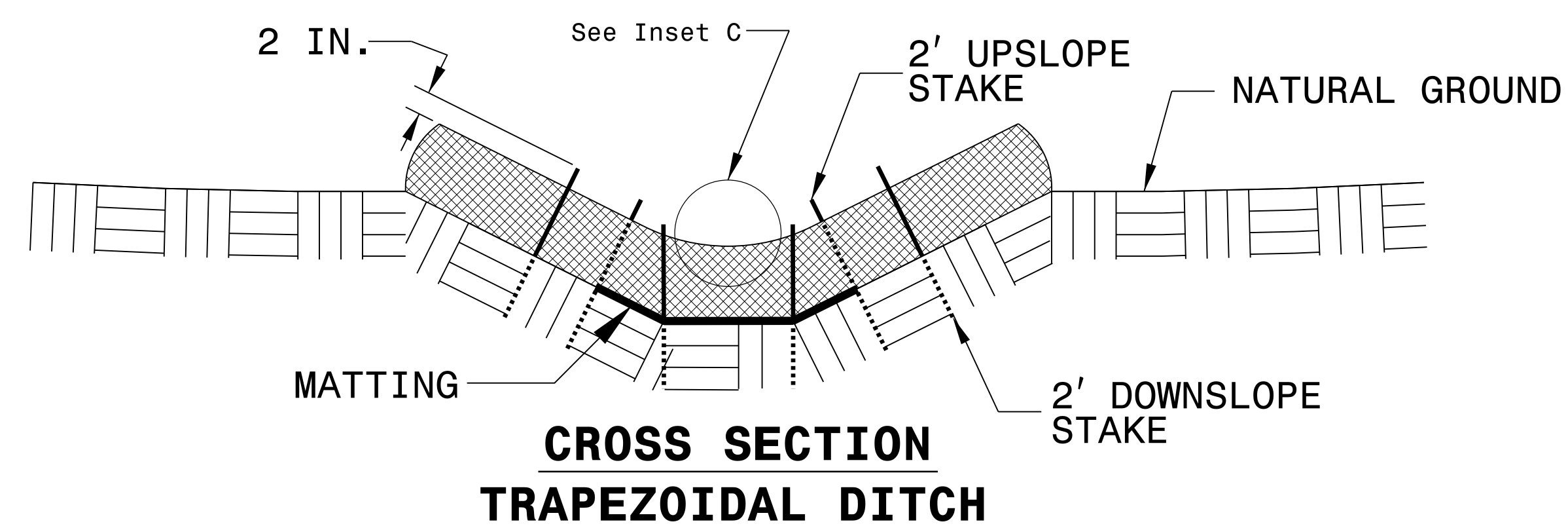
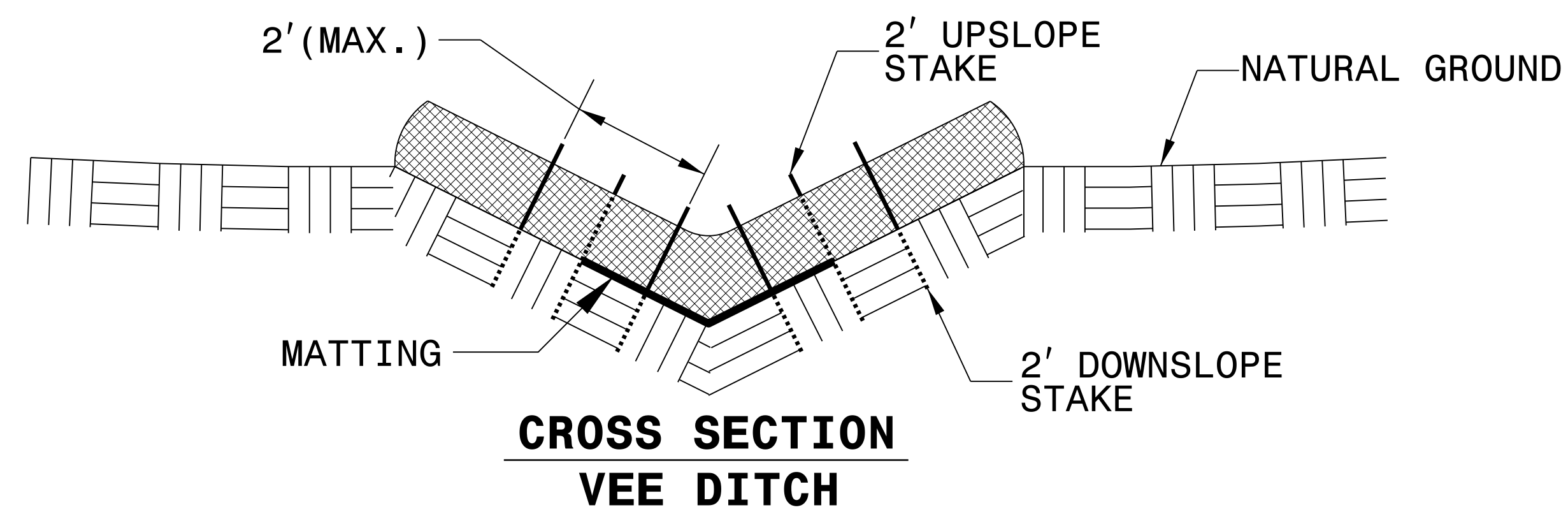
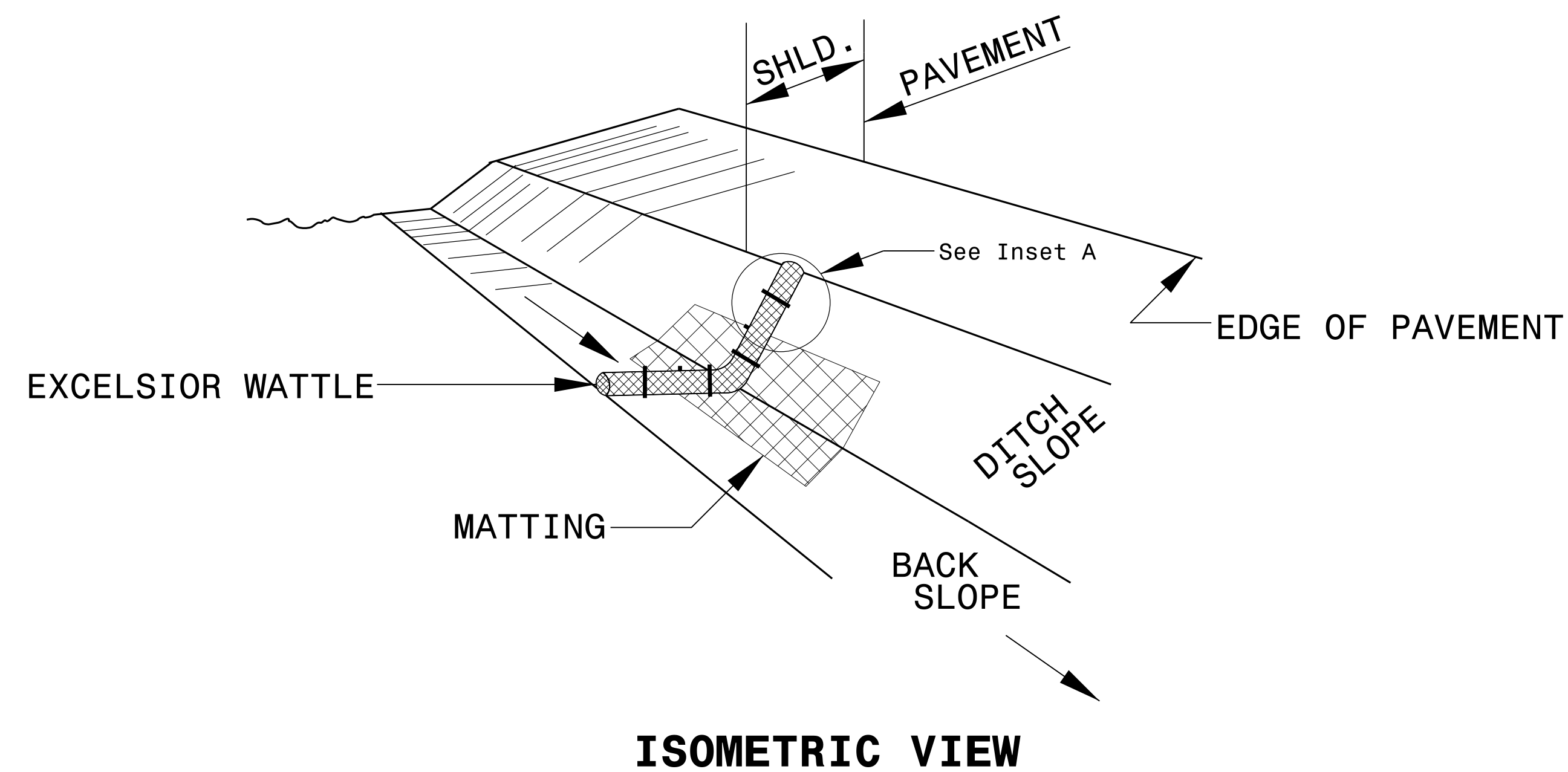
NOTES

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

NOT TO SCALE

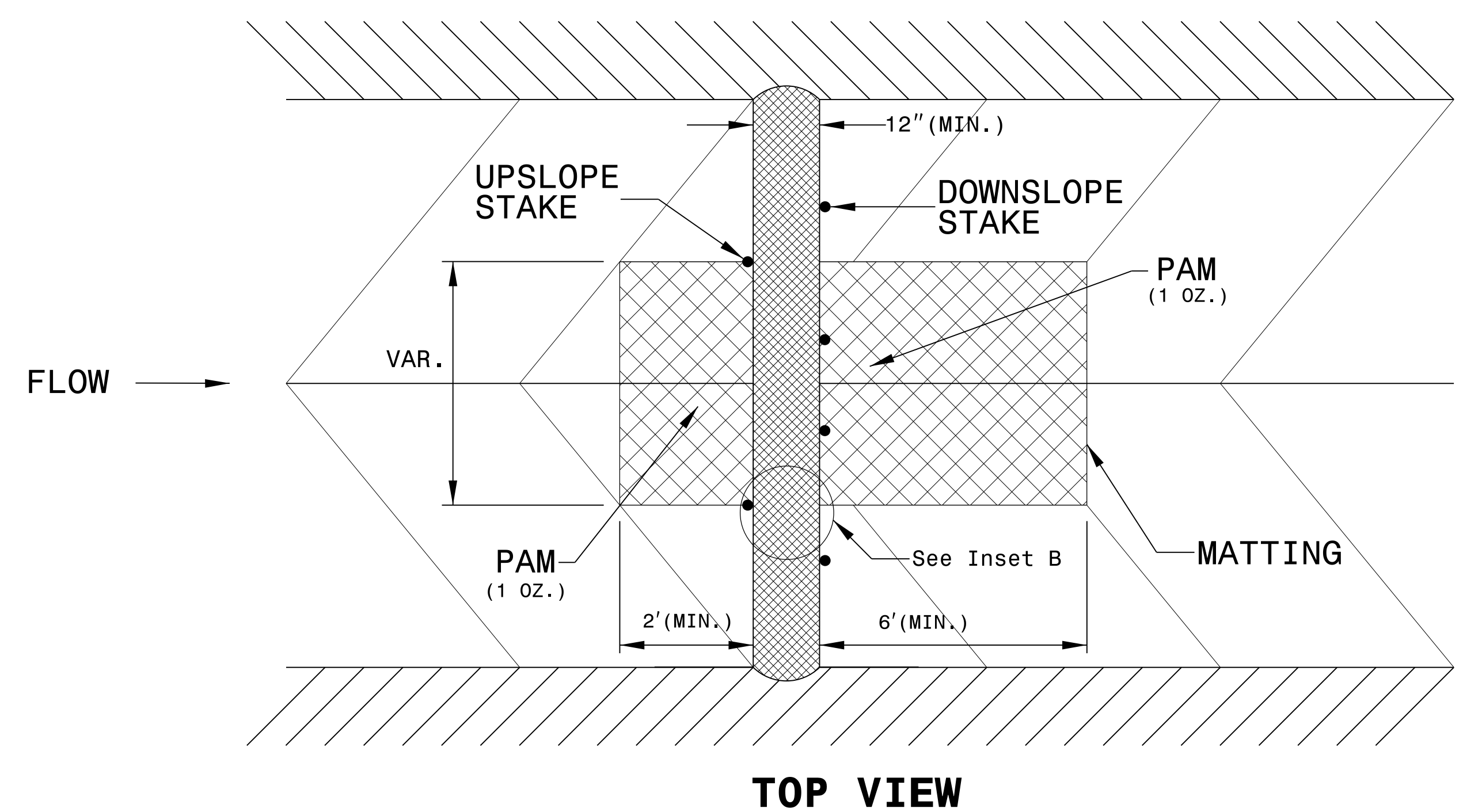
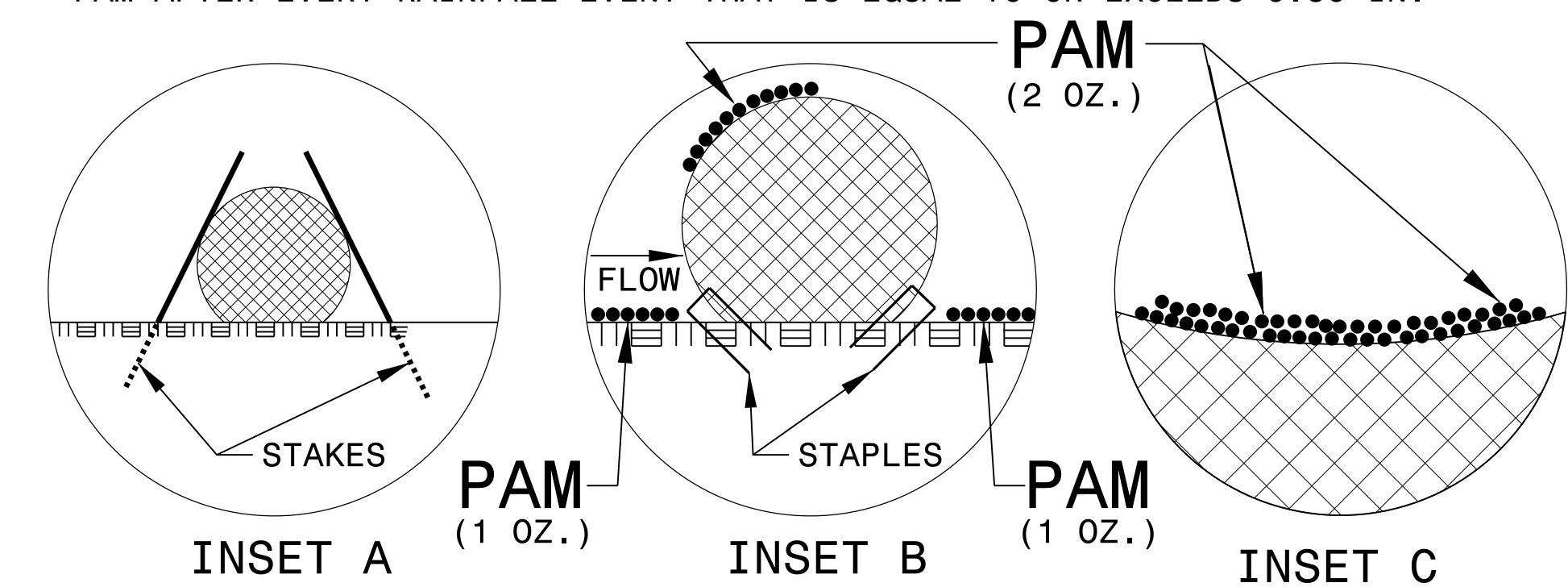
PROJECT REFERENCE NO. U-3633	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



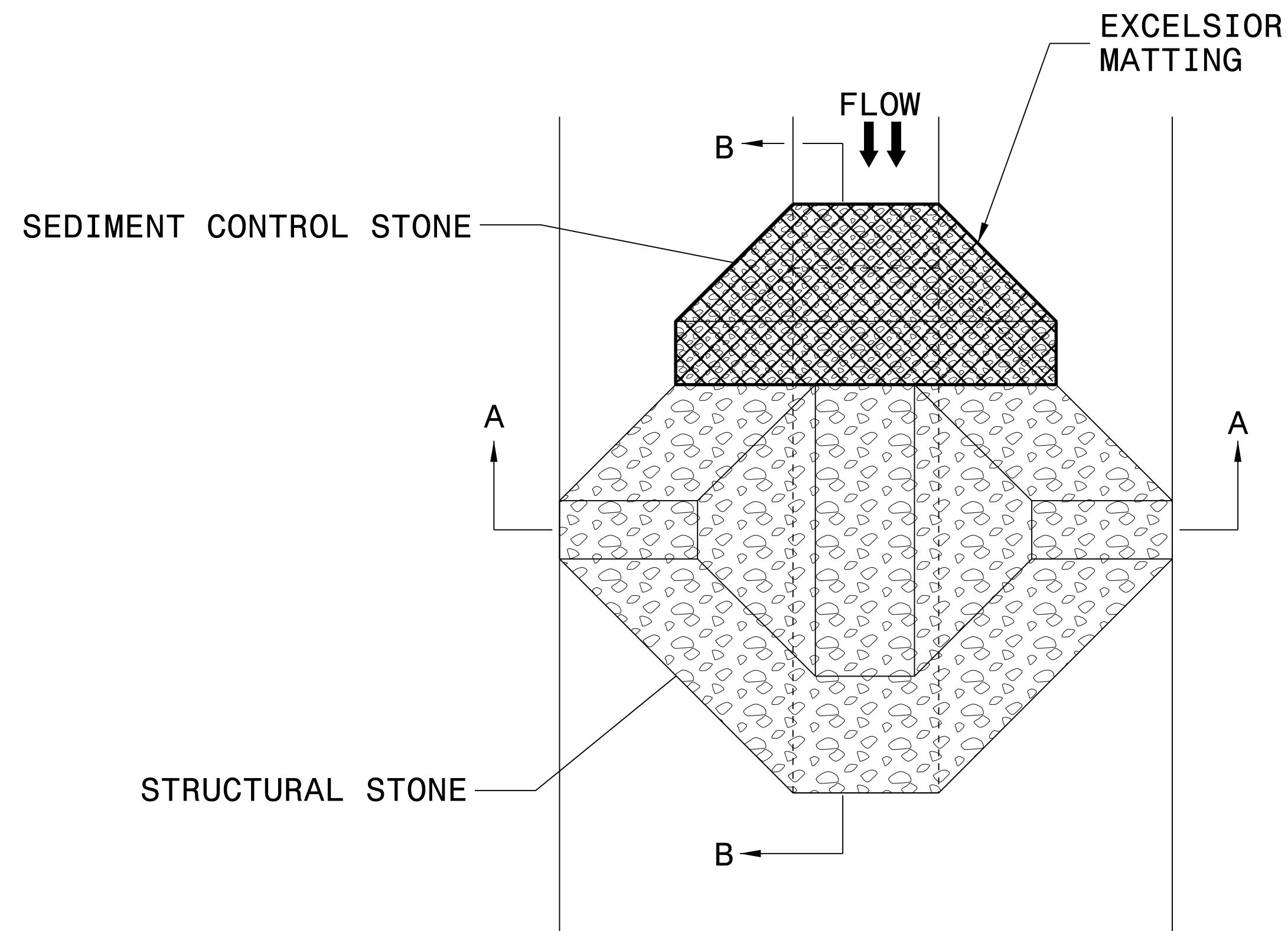
NOTES:

- 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.



PROJECT REFERENCE NO. U-3633	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

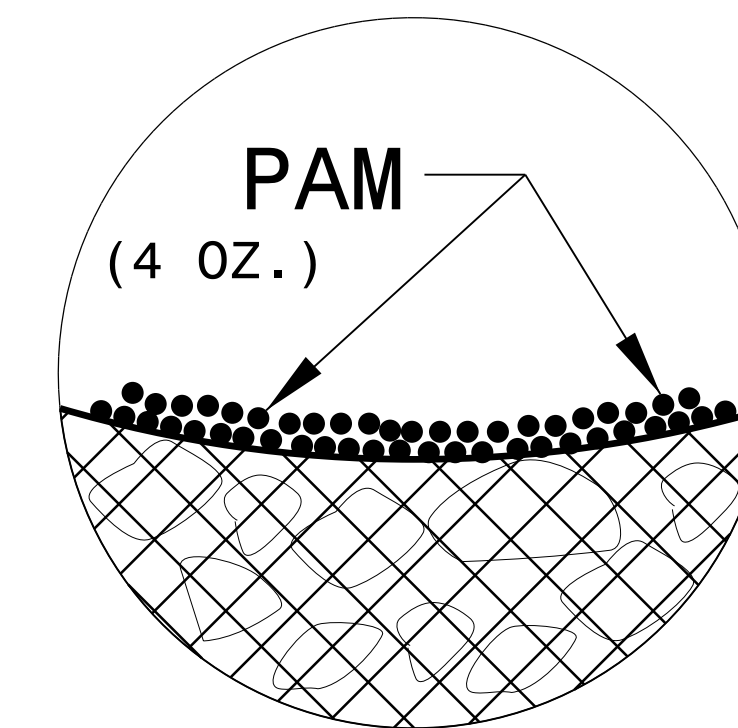
NOTES:

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

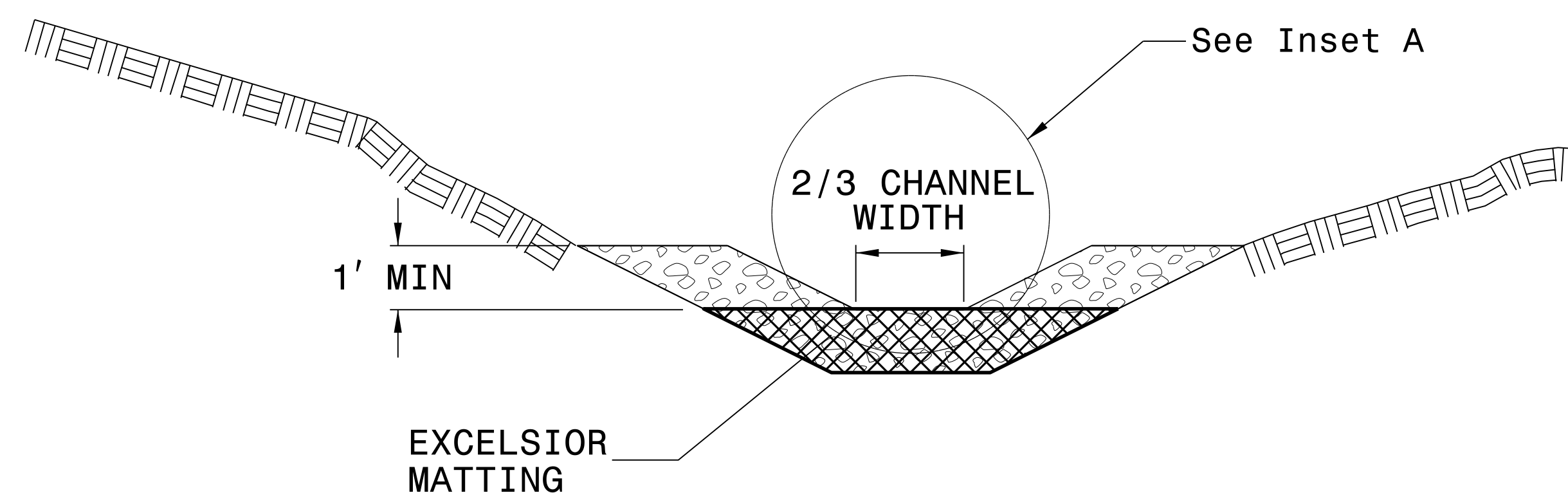
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

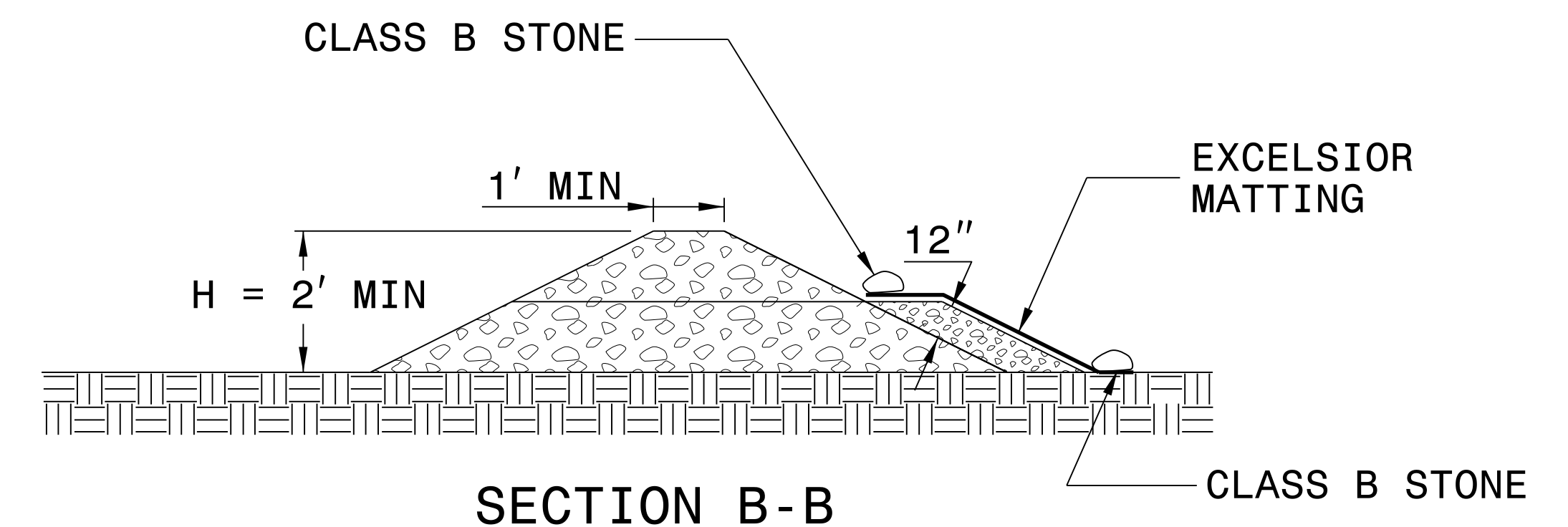
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-3633</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.

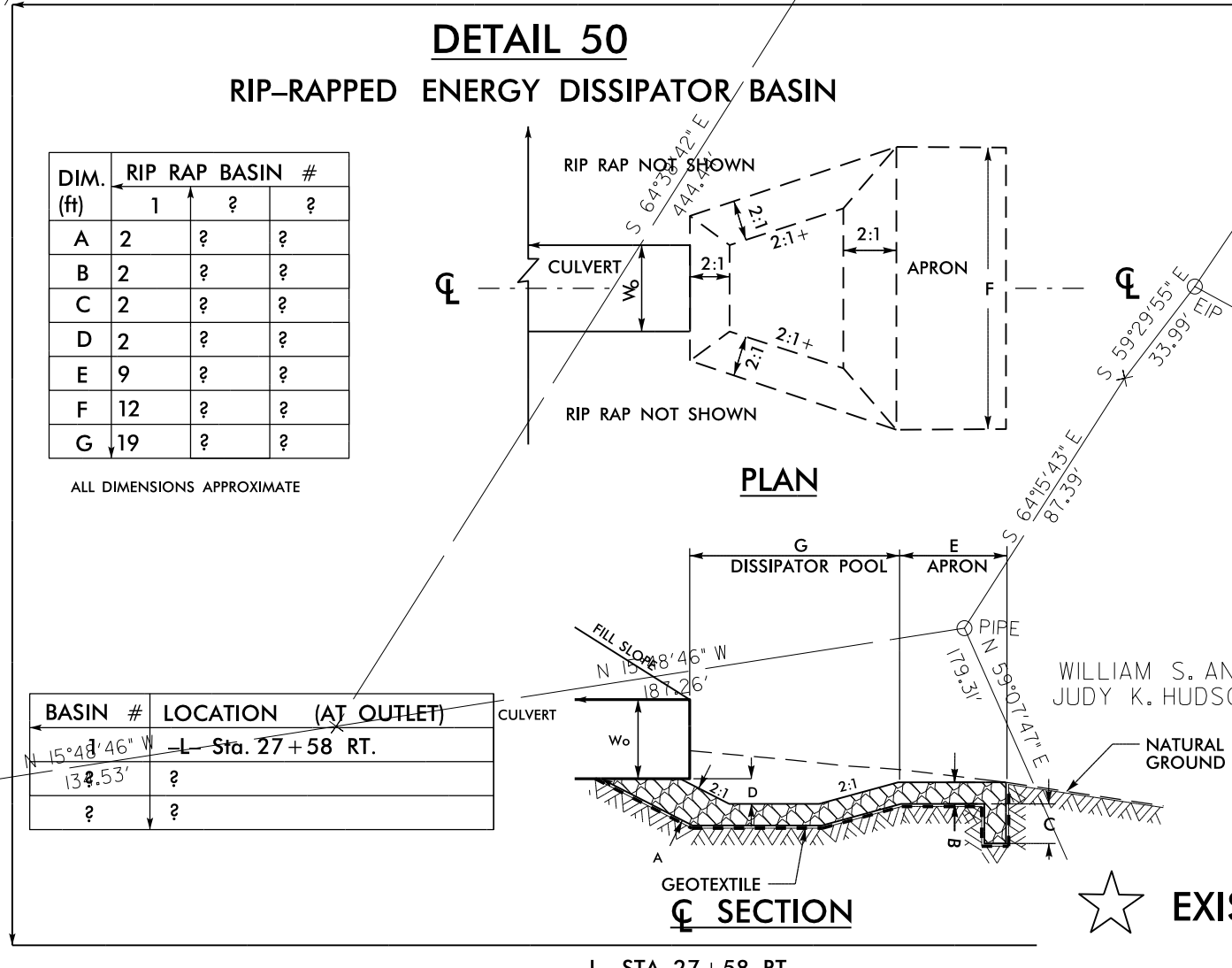
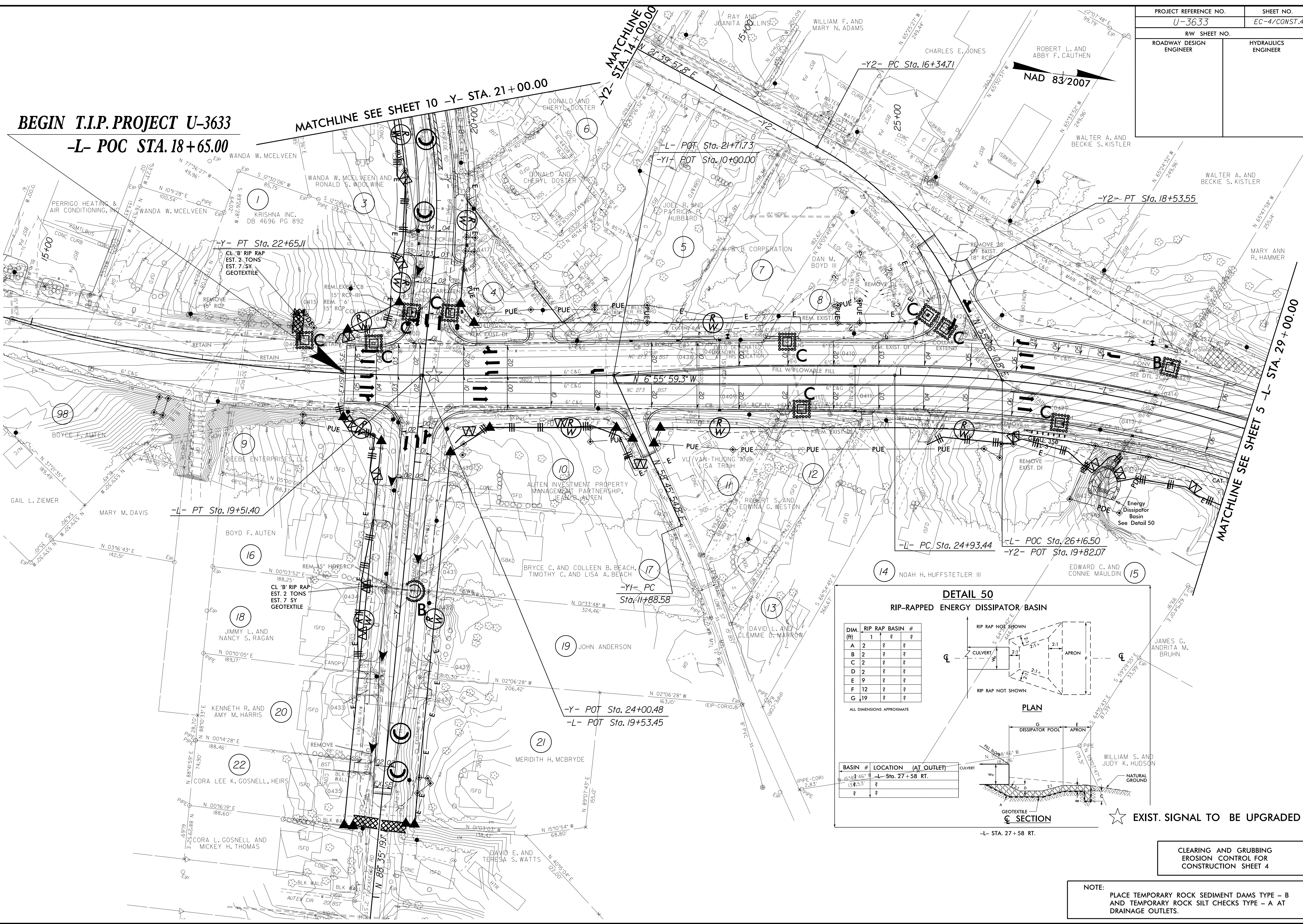
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BEGIN T.I.P. PROJECT U-3633
-L- POC STA. 18+65.00

MATCHLINE SEE SHEET 10 -Y- STA. 21+00.00

MATCHLINE SEE SHEET 14 -Y- STA. 14+00.00

MATCHLINE SEE SHEET 5 -L- STA. 29+00.00

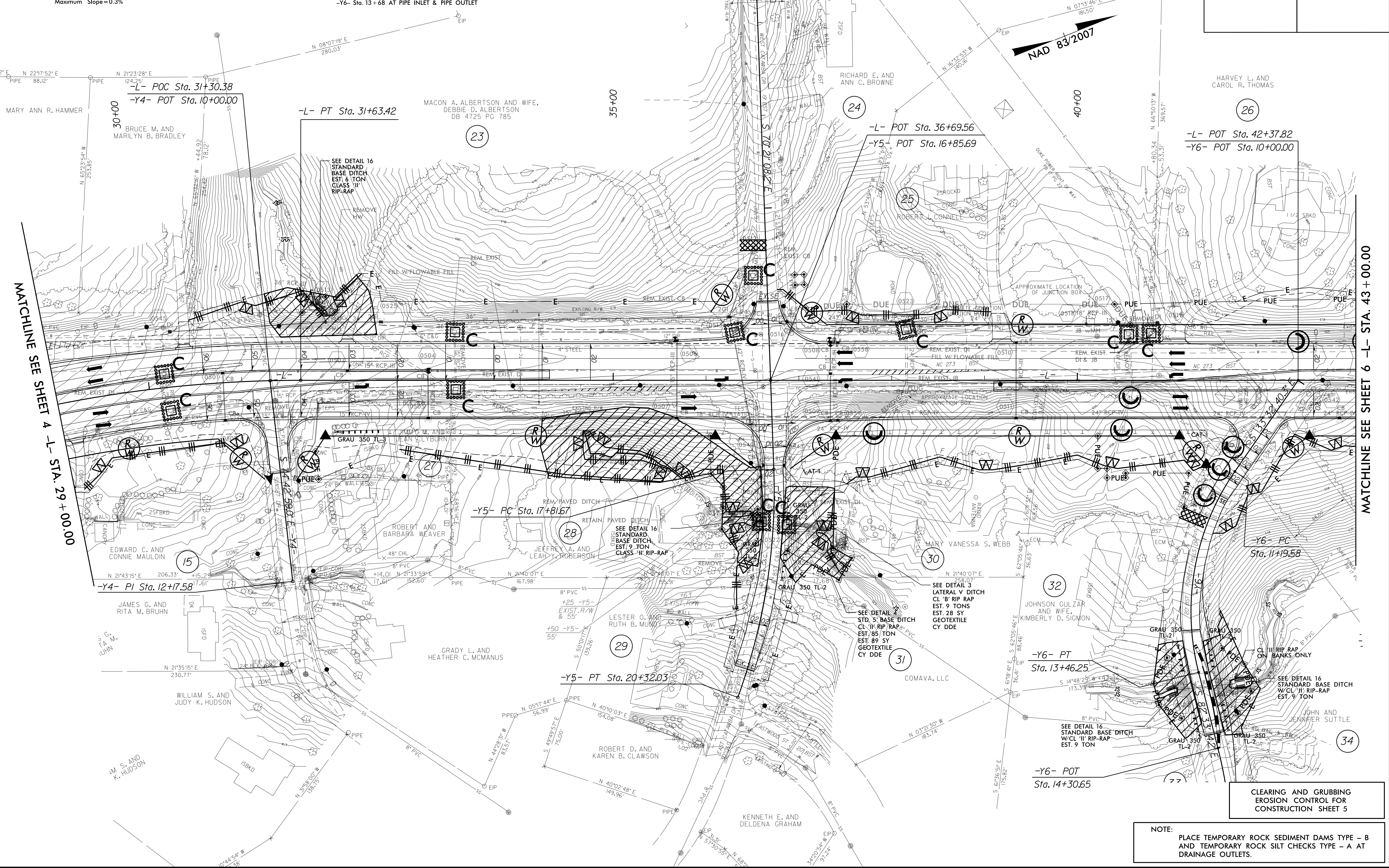
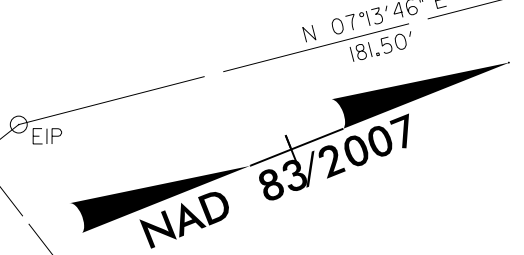
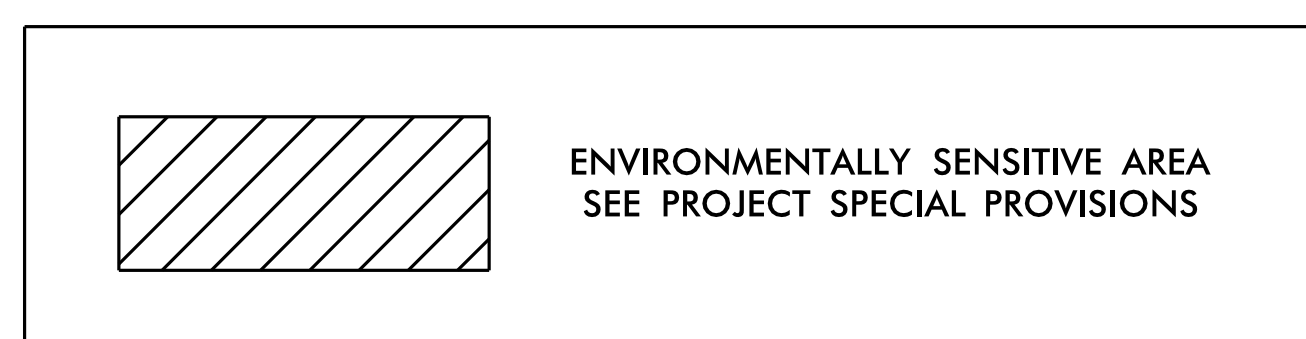
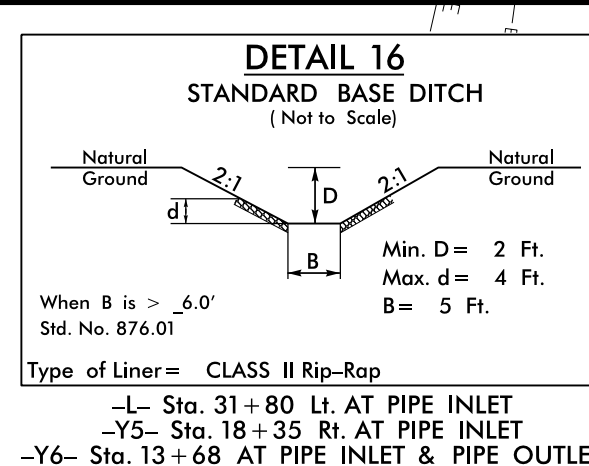
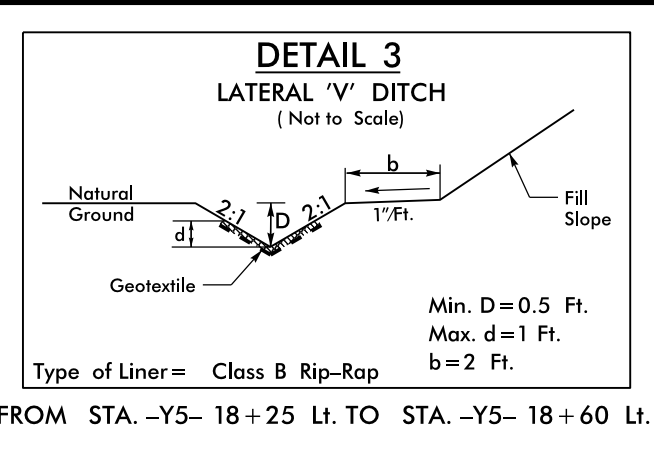
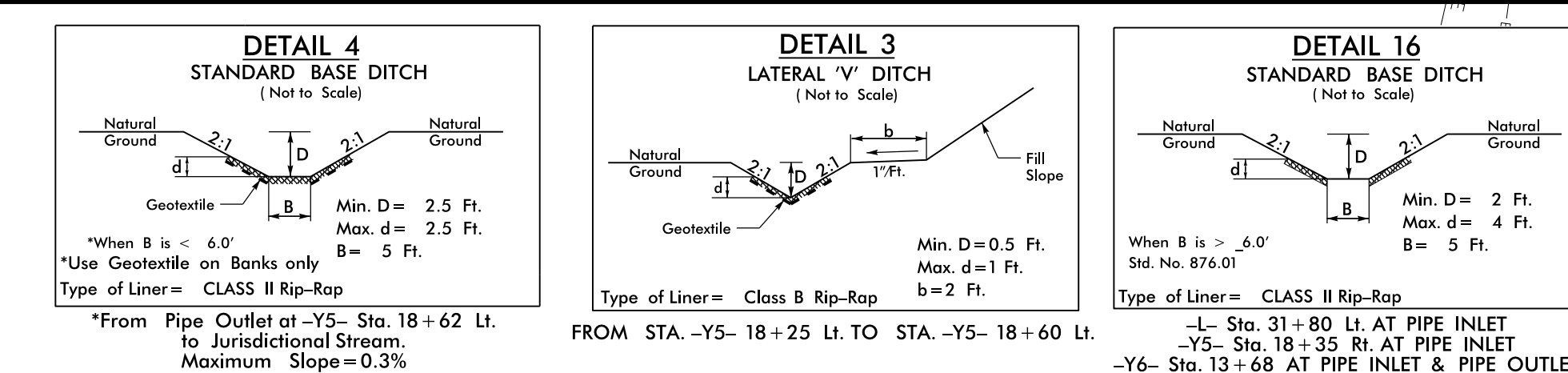


BASIN #	LOCATION (AT OUTLET)
15	15+48.46' -L- Sta. 27+58 RT.
15	15+53' ?
?	?

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

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 REVISIONS: 1
 1
 1

PROJECT REFERENCE NO. U-3633	SHEET NO. EC-5/CONST.5
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCHLINE SEE SHEET 4 -L- STA. 29+00.00

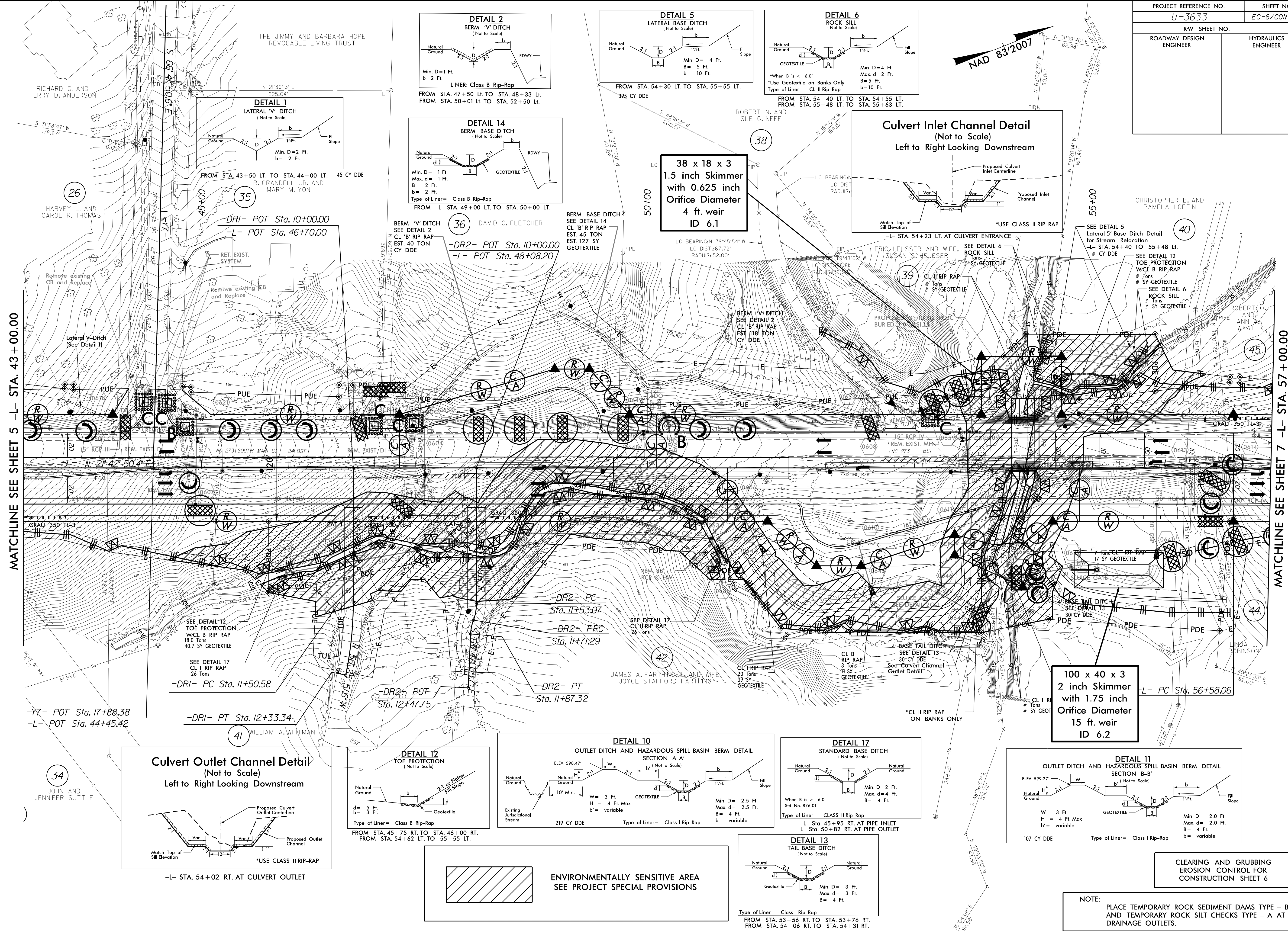
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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

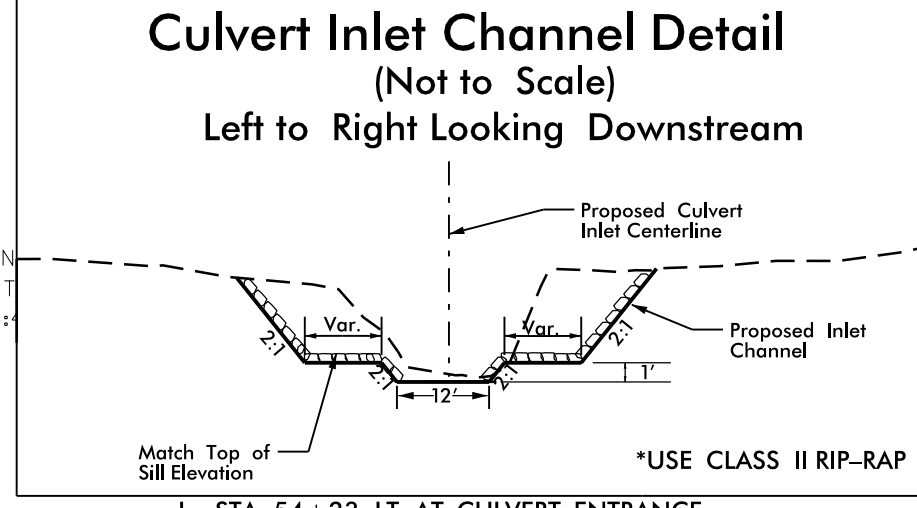
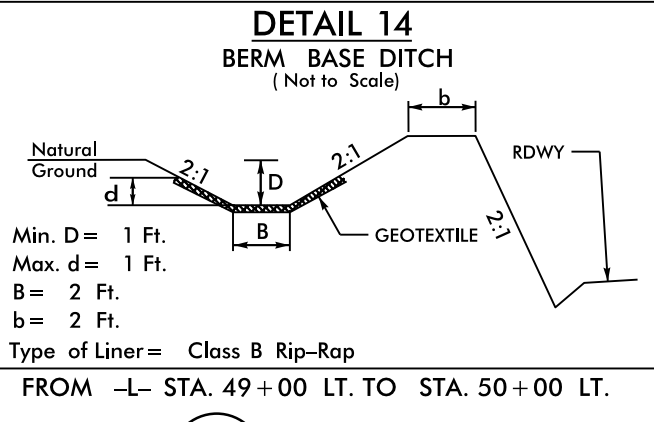
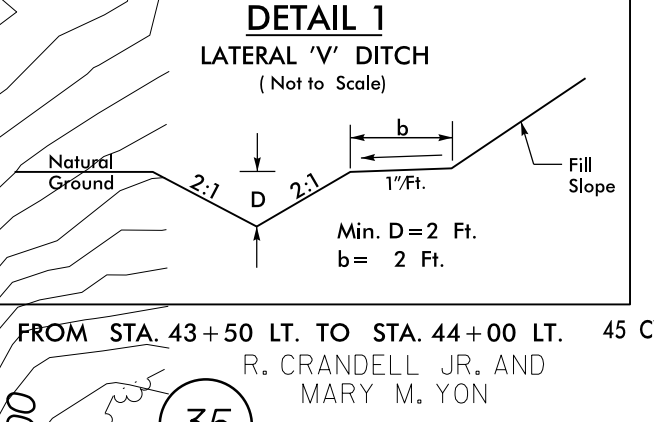
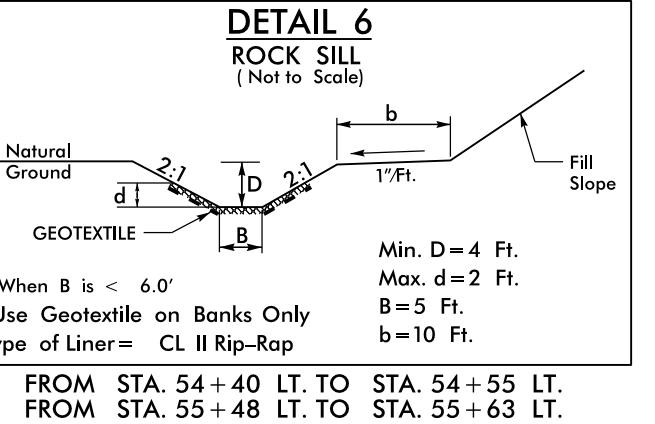
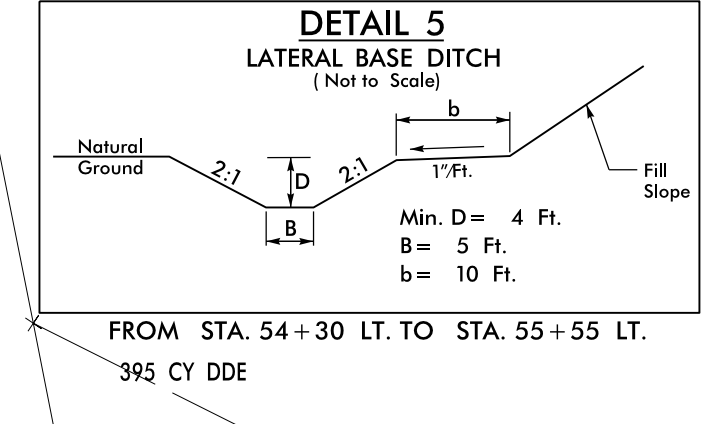
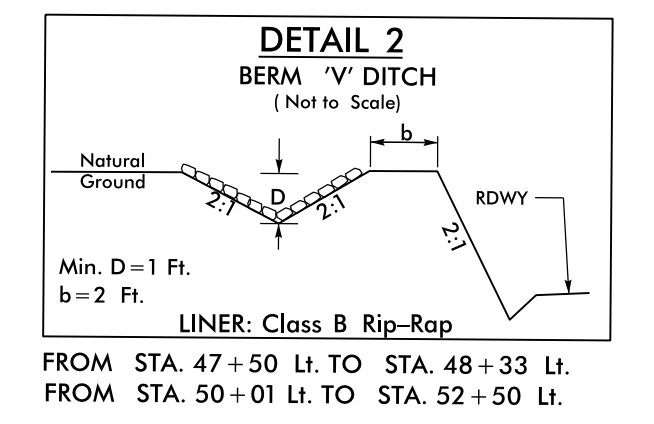
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PROJECT REFERENCE NO. U-3633	SHEET NO. EC-6/CONST.6
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



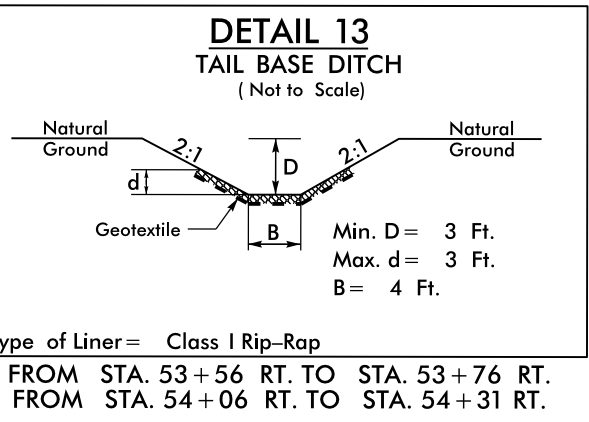
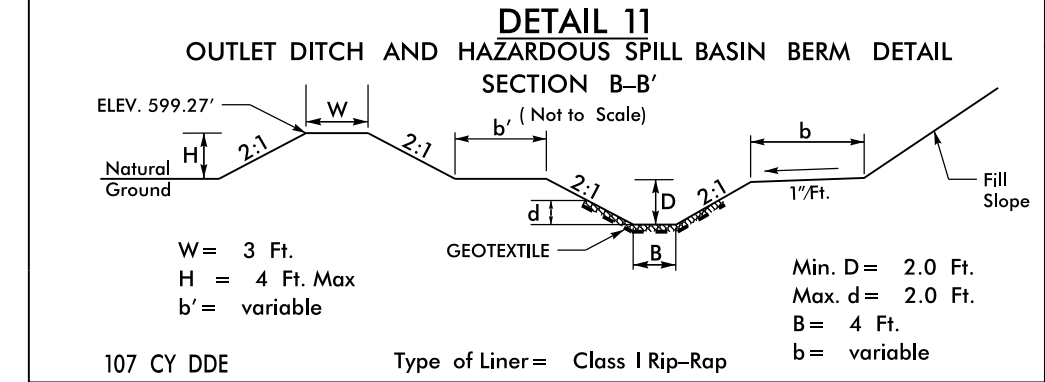
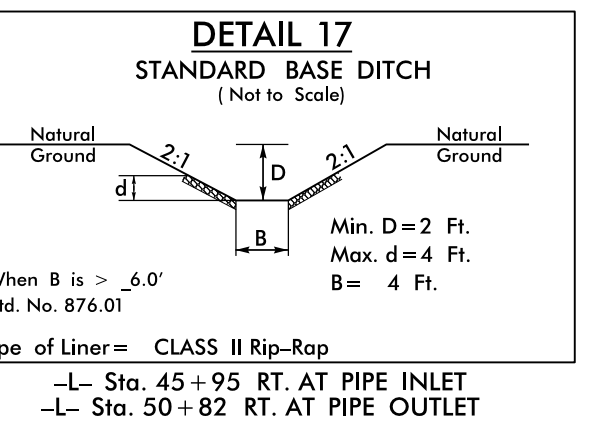
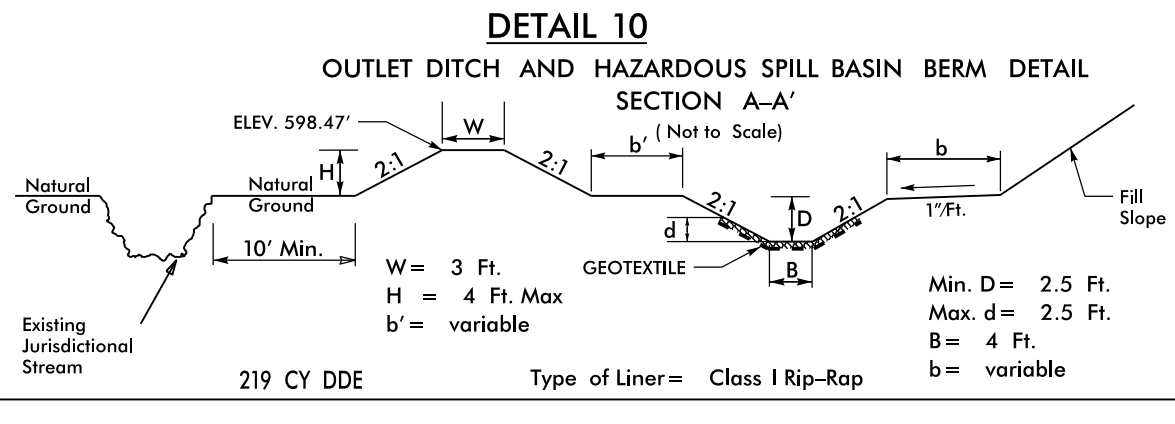
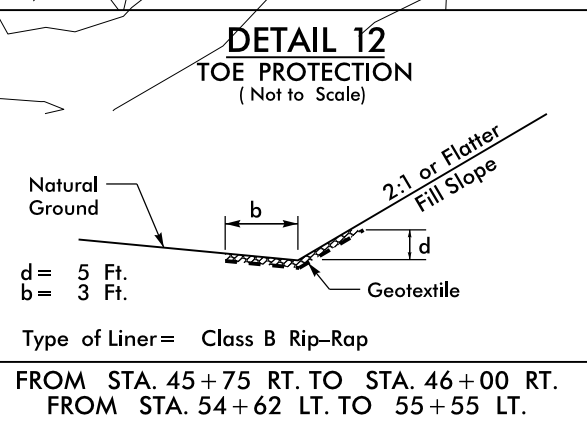
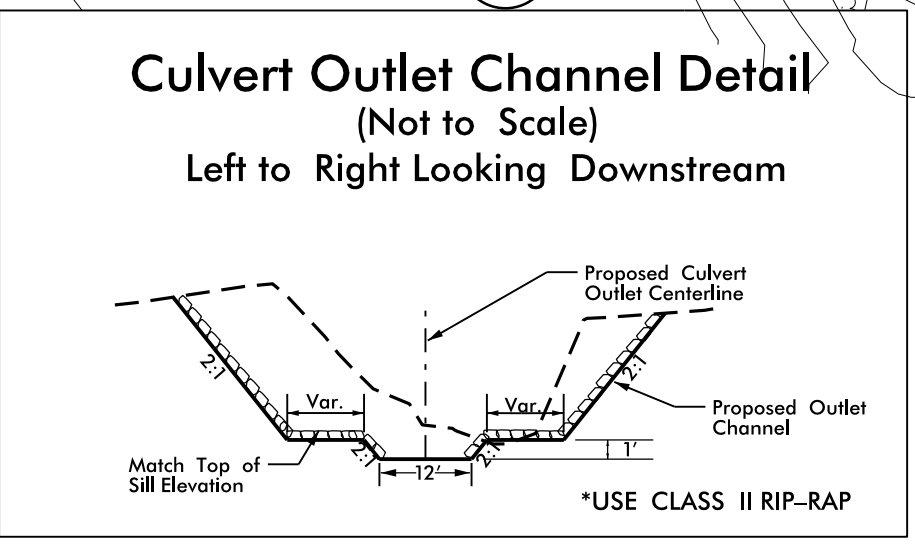
MATCHLINE SEE SHEET 5 -L- STA. 43+00.00

MATCHLINE SEE SHEET 7 -L- STA. 57+00.00



38 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 6.1

100 x 40 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
15 ft. weir
ID 6.2



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

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

8/17/99

04-OCT-2016 09:57 Design:U-3633_EC_psh6.dgn
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PROJECT REFERENCE NO. U-3633	SHEET NO. EC-7/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

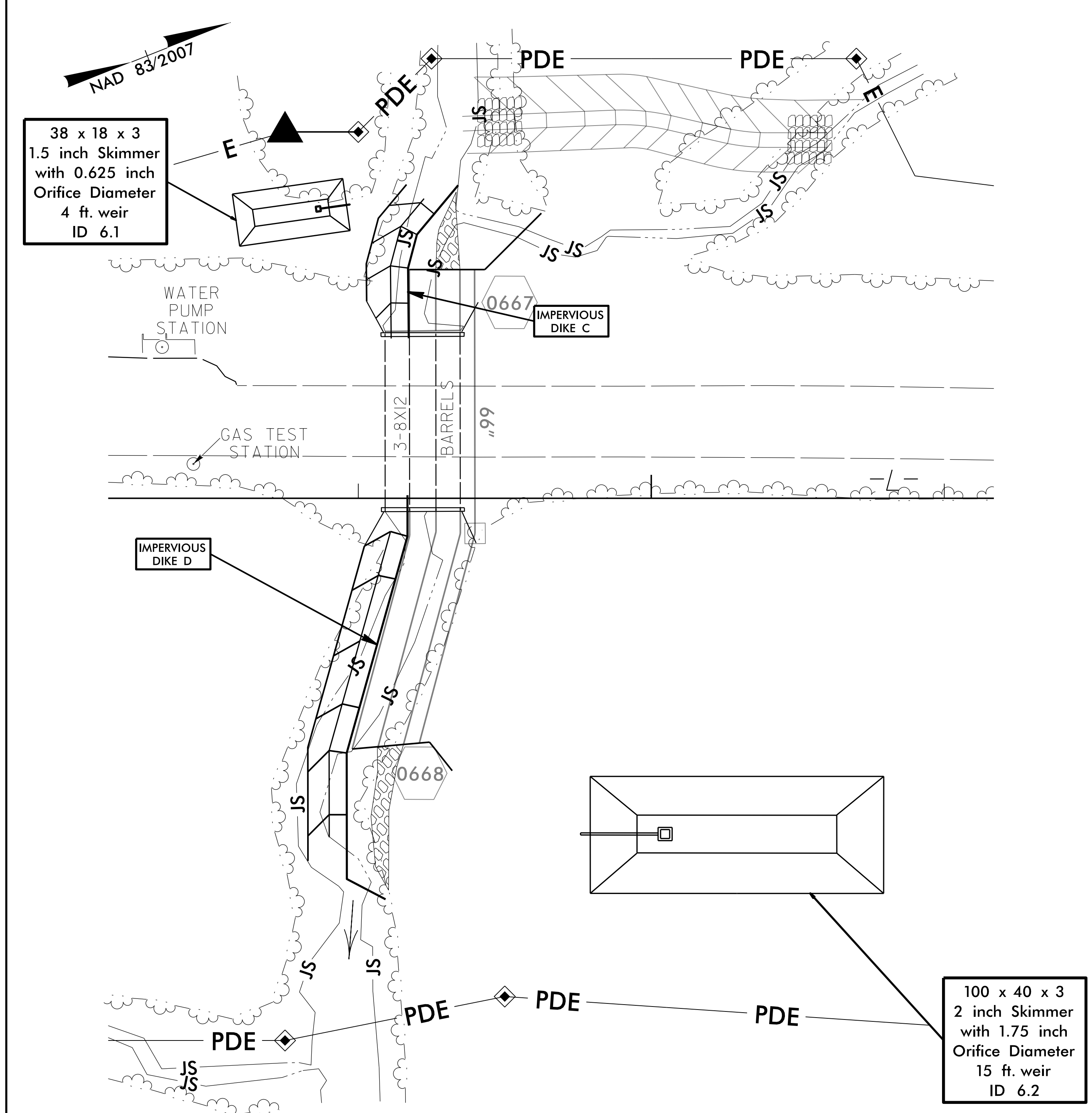
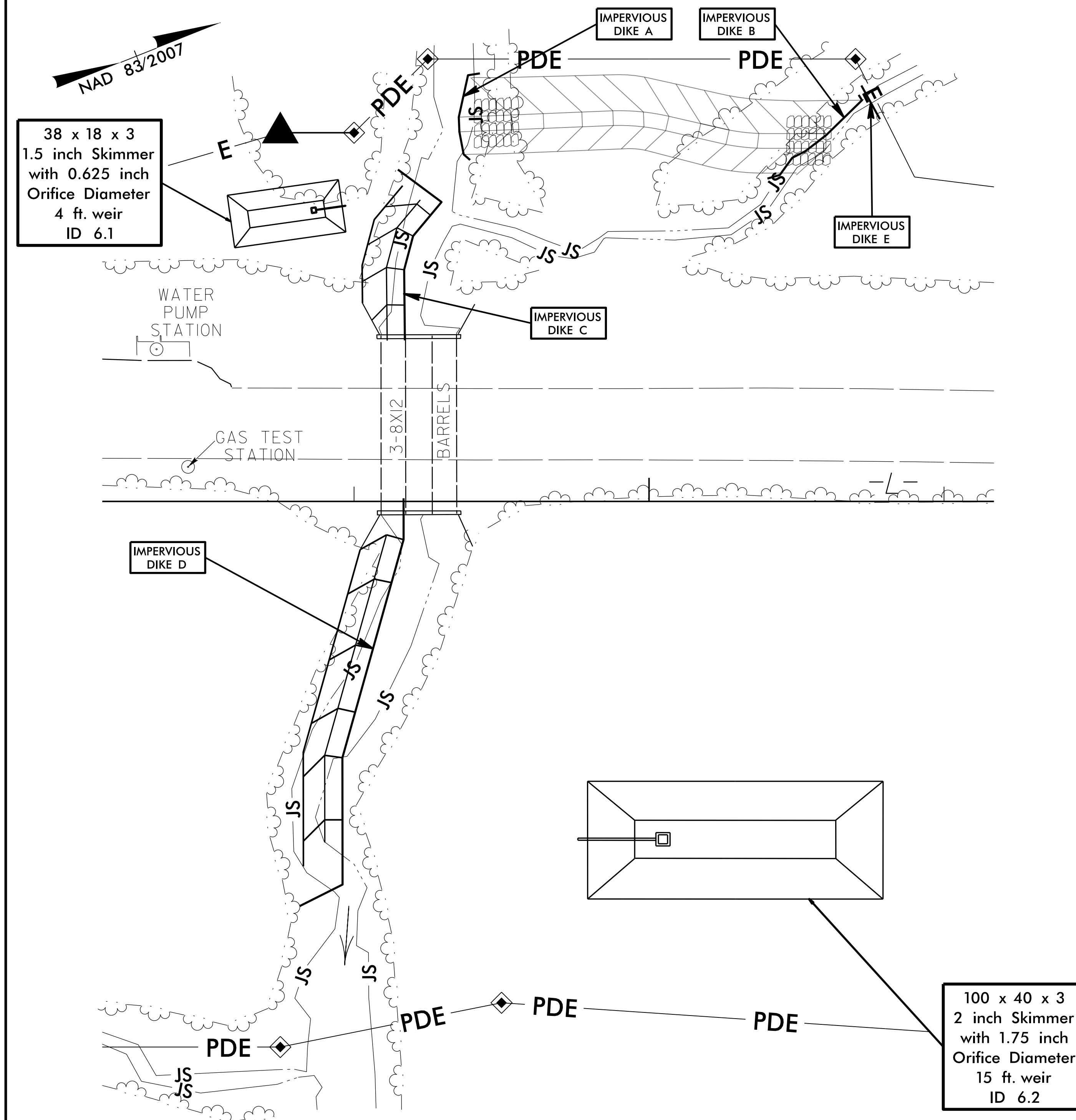
CULVERT CONSTRUCTION SEQUENCE STA. 54+15 -L-

PHASE I

1. UTILIZE SKIMMER BASIN(S) OR SPECIAL STILLING BASIN(S) AS STILLING BASINS WHERE APPLICABLE.
2. INSTALL IMPERVIOUS DIKE A, B, C, AND D.
3. INSTALL THE LATERAL 5' BASE DITCH FOR STREAM RELOCATION.
4. INSTALL THE CULVERT DIVERSION CHANNEL (6' BASE, 4' DEEP AND 2:1 SIDESLOPES) TO DIRECT FLOW INTO SOUTHERN BARREL IN THE FUTURE.
5. REMOVE IMPERVIOUS DIKE A AND INSTALL IMPERVIOUS DIKE E.
6. UTILIZE A PUMP AROUND SYSTEM WHILE THE ENTRANCE OF LATERAL 5' BASE DITCH IS CONSTRUCTED.

PHASE II

7. ONCE LATERAL 5' BASE DITCH IS STABILIZED REMOVE IMPERVIOUS DIKE E AND DIVERT FLOW INTO IT.
8. ADJUST IMPERVIOUS DIKE C AND D TO ALLOW WATER TO FLOW THROUGH THE CULVERT DIVERSION CHANNEL AND TO CLOSE OFF ACCESS TO THE TWO NORTHERN BARRELS.
9. BORE AND JACK 66" PIPE BENEATH EXIST ROADWAY.
10. CONSTRUCT THE CULVERT EXTENSIONS, WING WALL AND CHANNEL IMPROVEMENTS FOR 2 NORTHERN BARRELS.

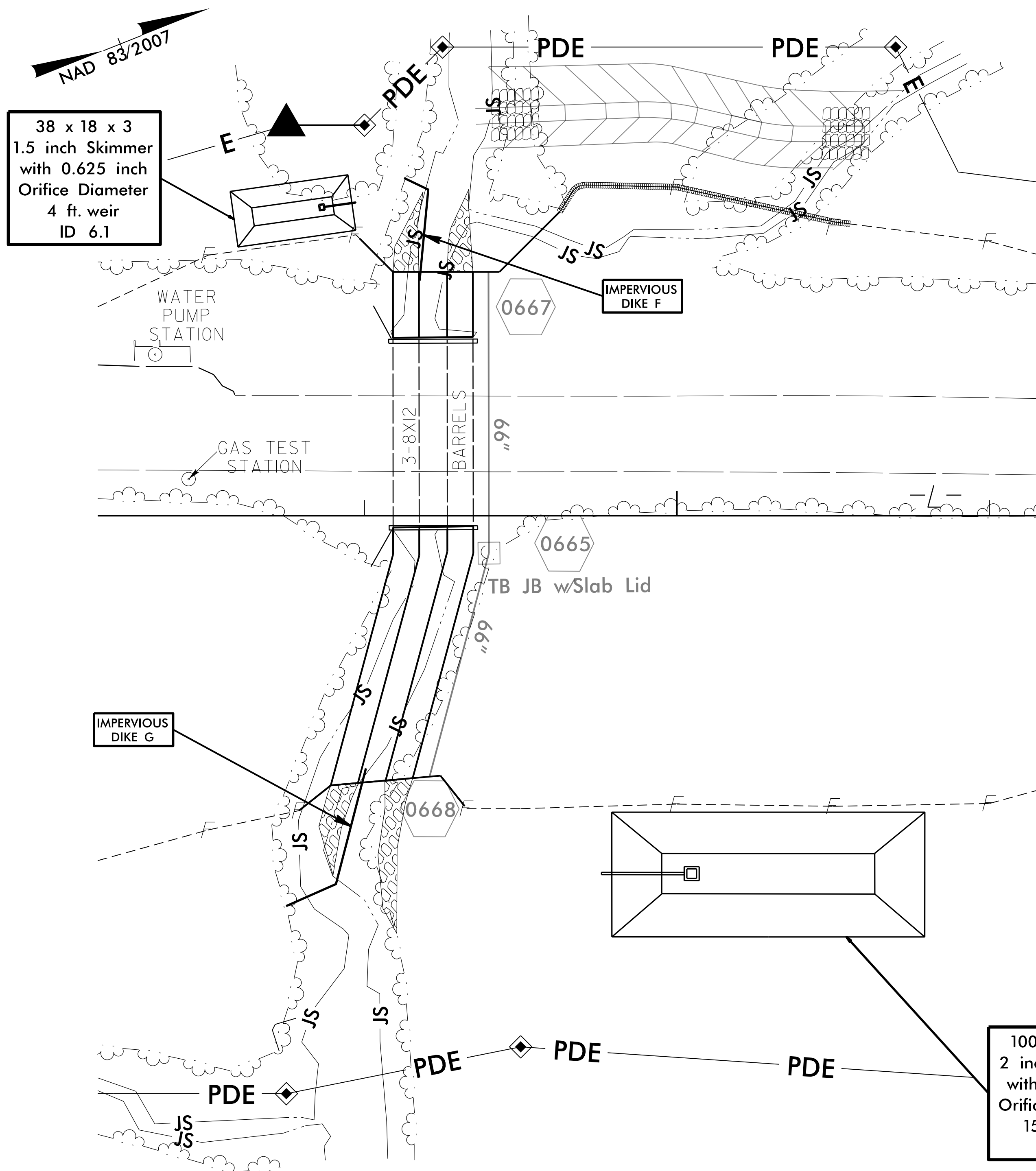


PROJECT REFERENCE NO. U-3633	SHEET NO. EC-8/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 54+15 -L-

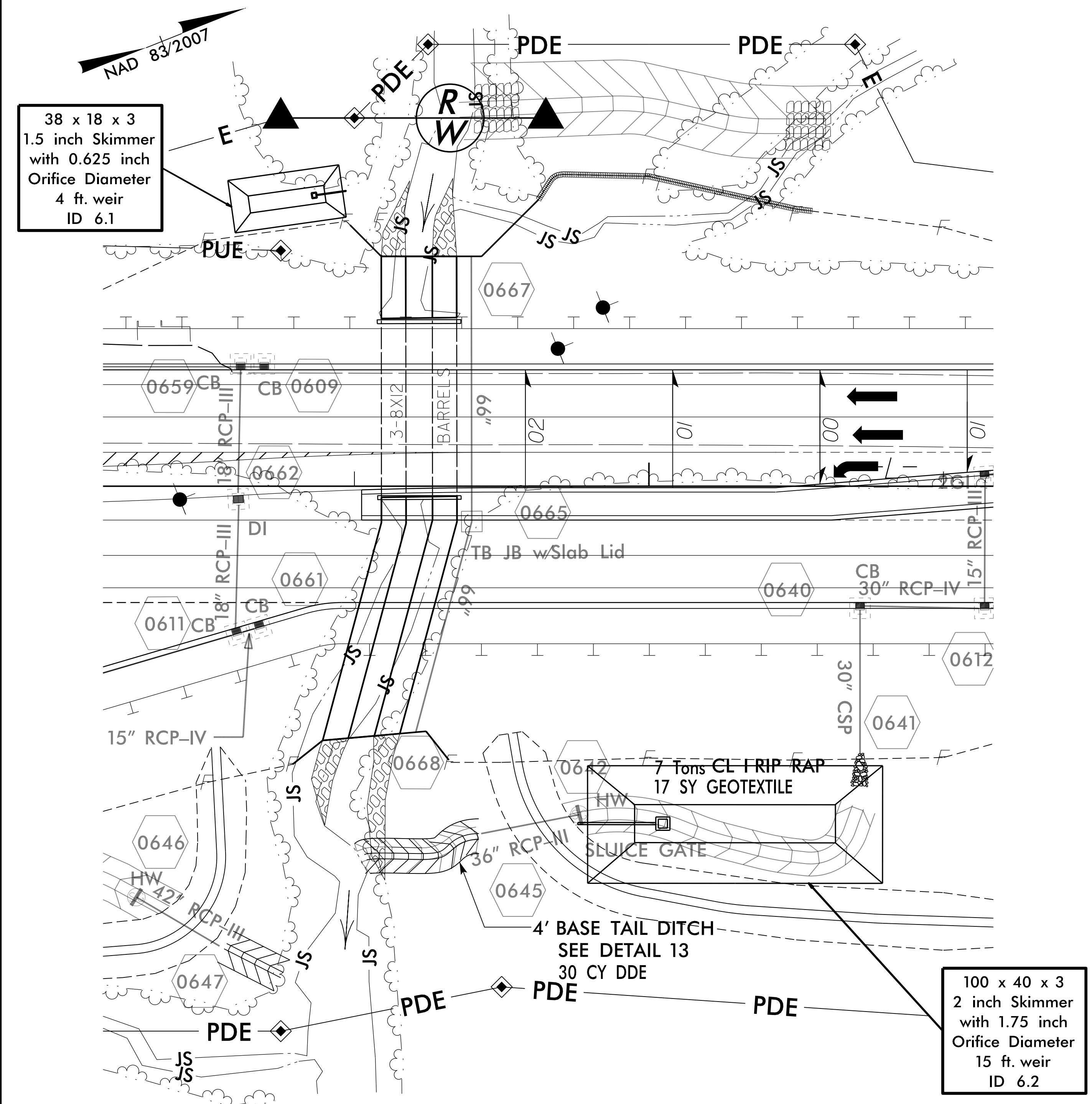
PHASE III

11. REMOVE IMPERVIOUS DIKE C AND D AND DIVERSION CHANNELS.
12. INSTALL IMPERVIOUS DIKE F AND G.
13. DIRECT WATER FLOW INTO THE 2 NORTHERN BARRELS.
14. CONSTRUCT CULVERT EXTENSION, WING WALL, AND CHANNEL IMPROVEMENTS.

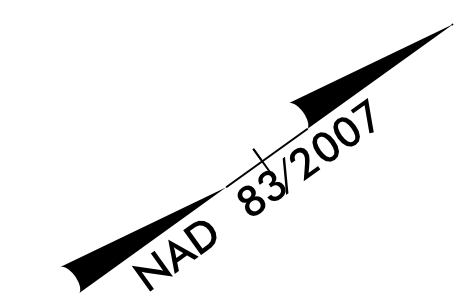


PHASE IV

14. REMOVE IMPERVIOUS DIKE F AND G.
15. REMOVE SPECIAL STILLING BASIN(S) IF ANY WERE USED.
16. COMPLETE ROADWAY.



PROJECT REFERENCE NO. U-3633		SHEET NO. EC-9/CONST.7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCHLINE SEE SHEET 6 -L- STA. 57+00.00

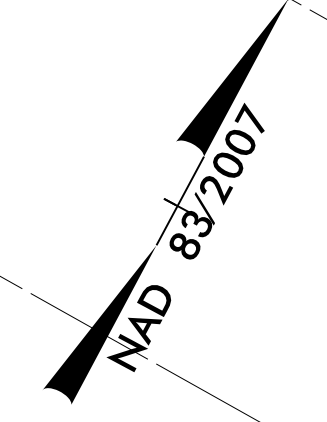
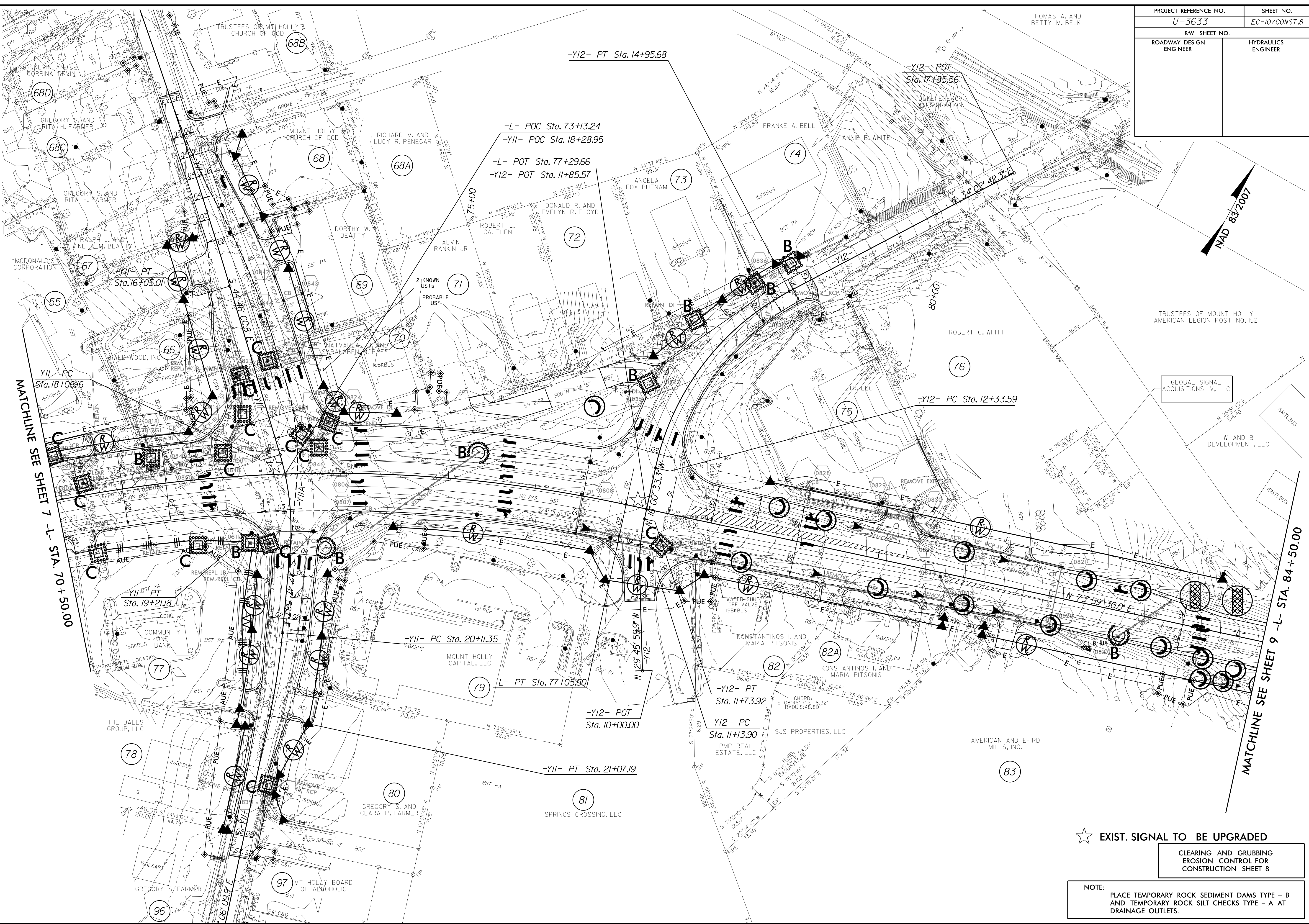
MATCHLINE SEE SHEET 8 -L- STA. 70+50.00

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.

8/17/99
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11/11/2016 10:11:11 AM

PROJECT REFERENCE NO. U-3633	SHEET NO. EC-10/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



★ EXIST. SIGNAL TO BE UPGRADED

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

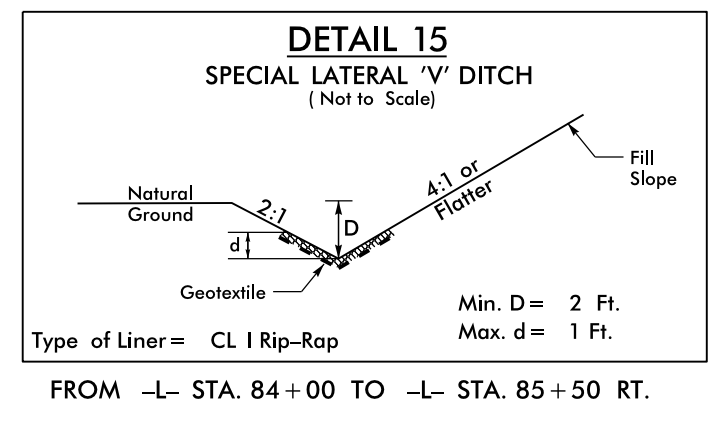
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

8/17/19
 04-OCT-2016 09:19
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 User: j...
 Plot: EC-10/CONST.8

PROJECT REFERENCE NO. U-3633	SHEET NO. EC-II/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

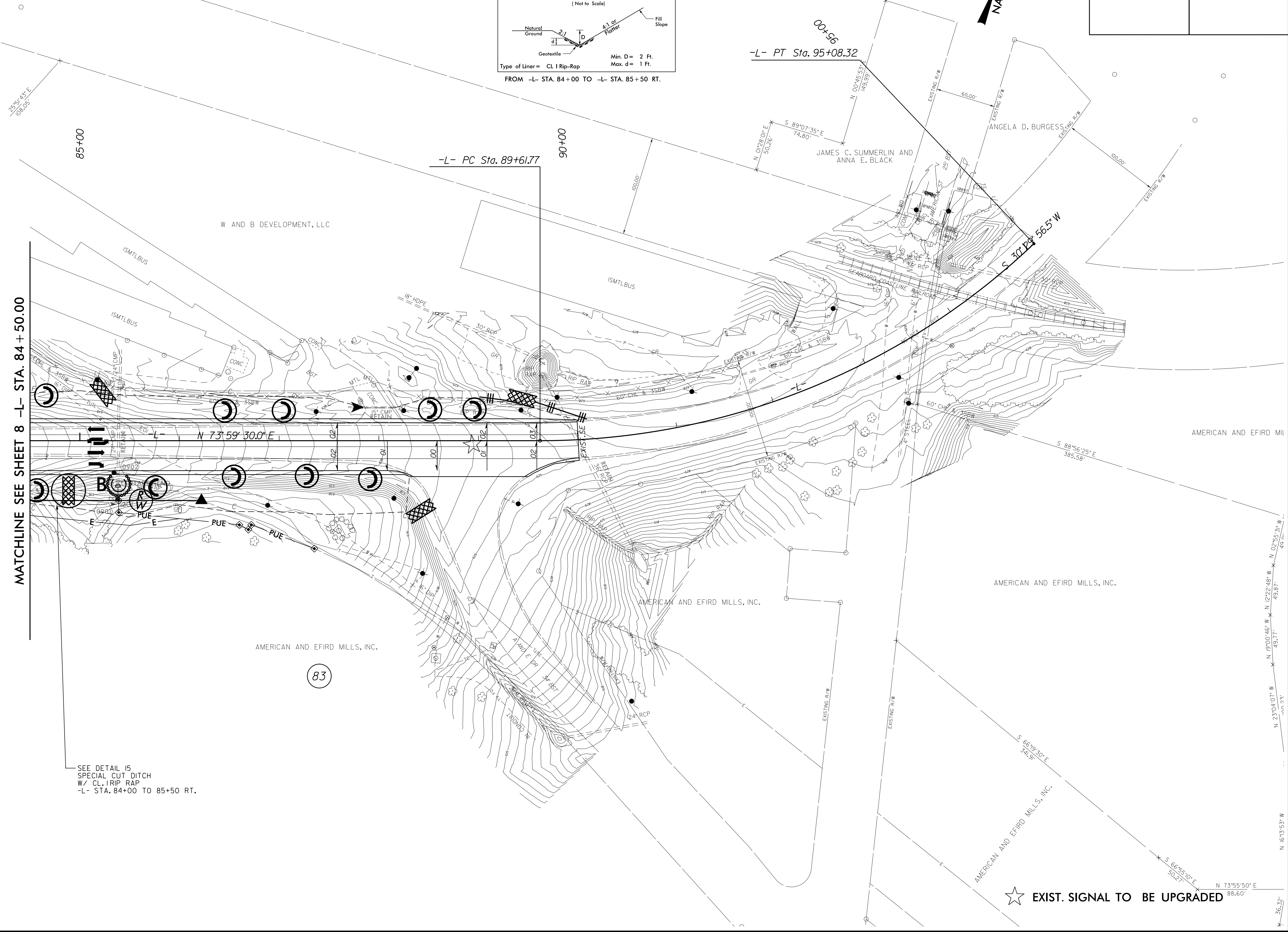
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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



NAD 83/2007

MATCHLINE SEE SHEET 8 -L- STA. 84+50.00



SEE DETAIL 15
SPECIAL CUT DITCH
W/ CL I RIP RAP
-L- STA. 84+00 TO 85+50 RT.

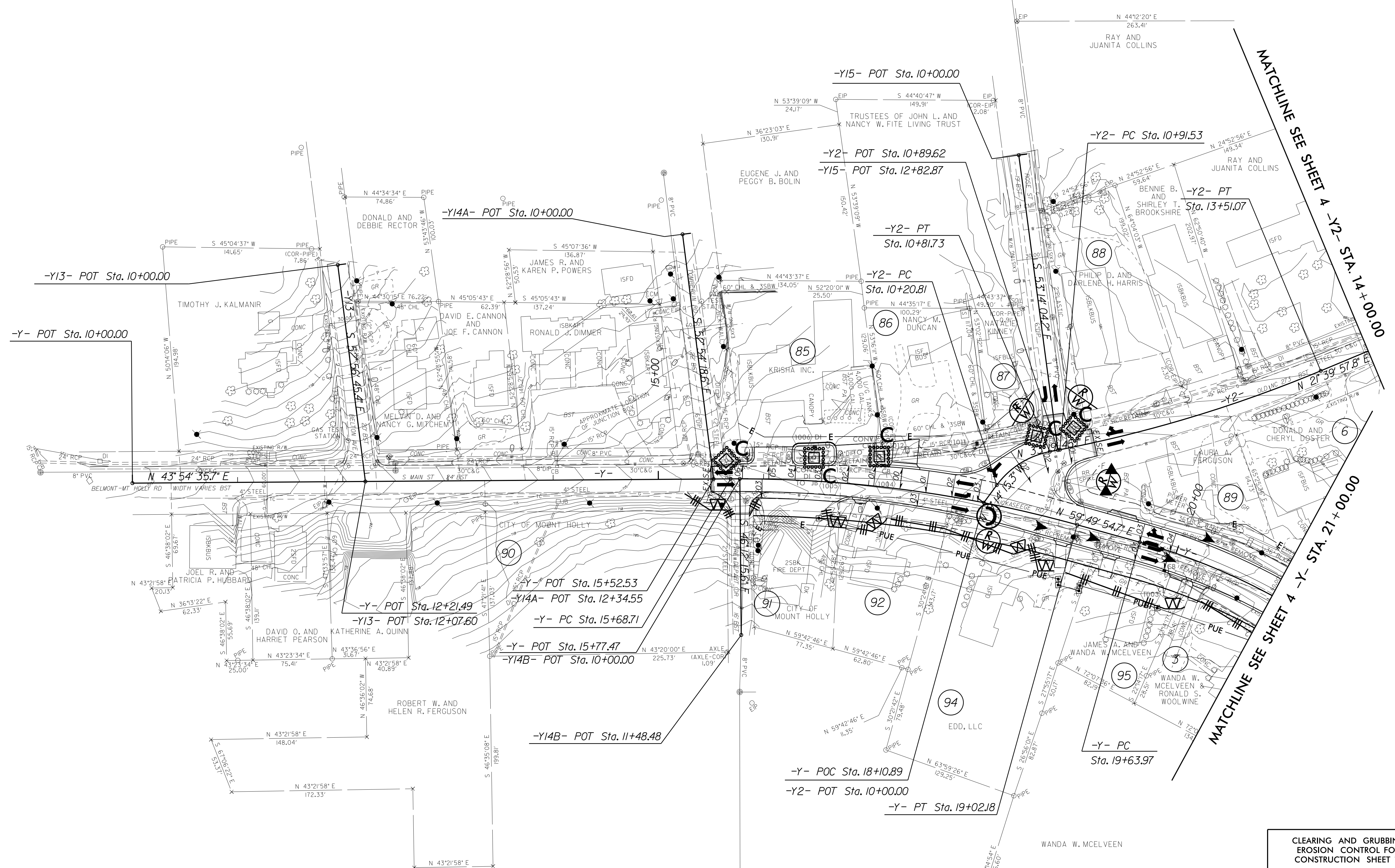
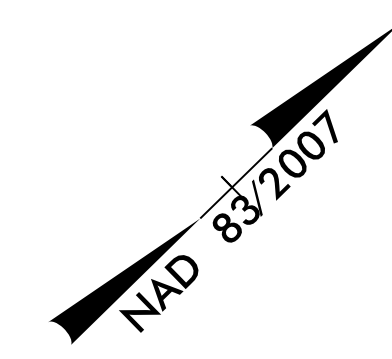
83

★ EXIST. SIGNAL TO BE UPGRADED

8/17/99

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mrc

PROJECT REFERENCE NO. U-3633		SHEET NO. EC-12/CONST.10	
RW SHEET NO. ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



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.

8/17/09

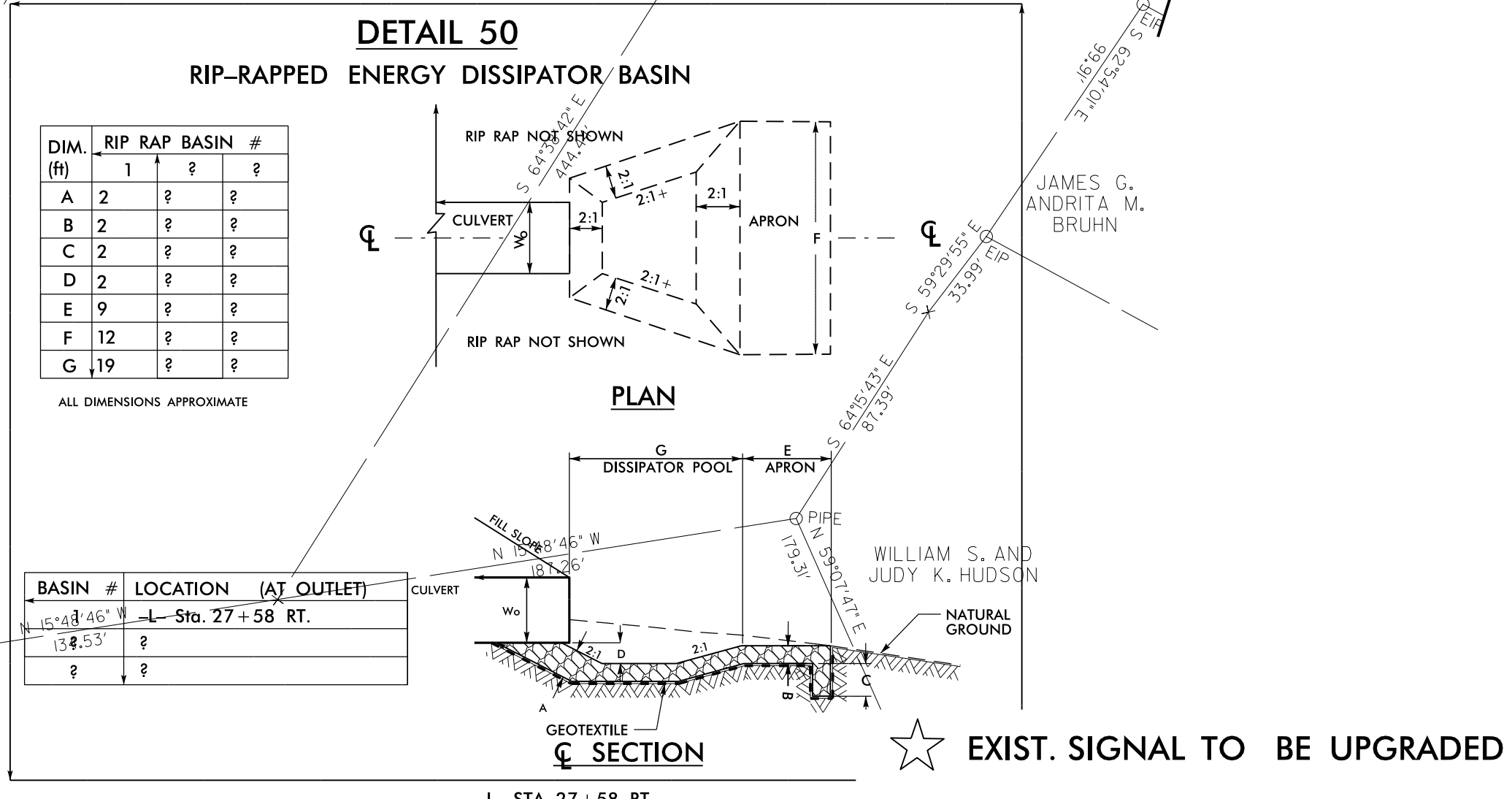
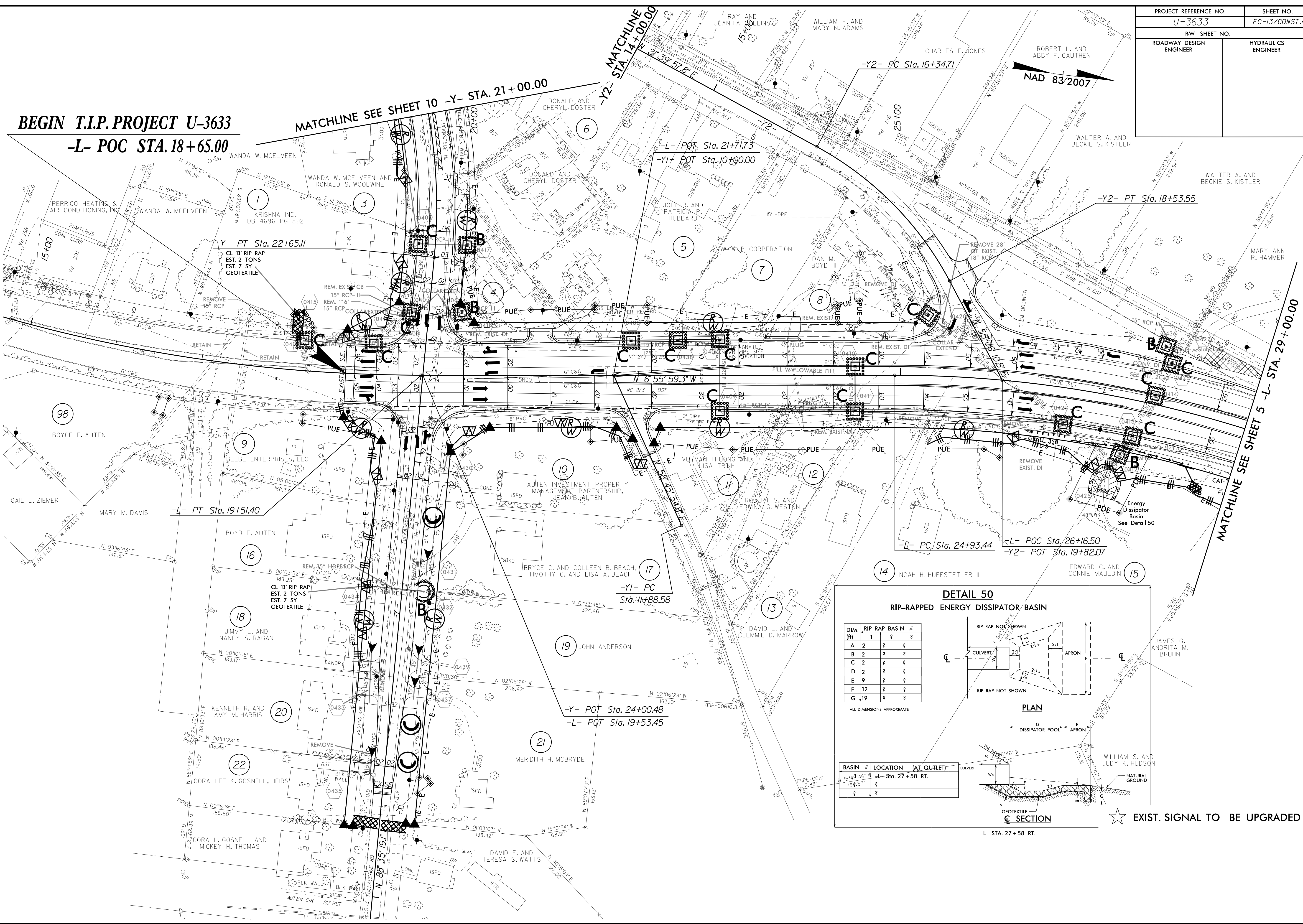
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11/11/2016 11:38:41

BEGIN T.I.P. PROJECT U-3633
-L- POC STA. 18+65.00

MATCHLINE SEE SHEET 10 -Y- STA. 21+00.00

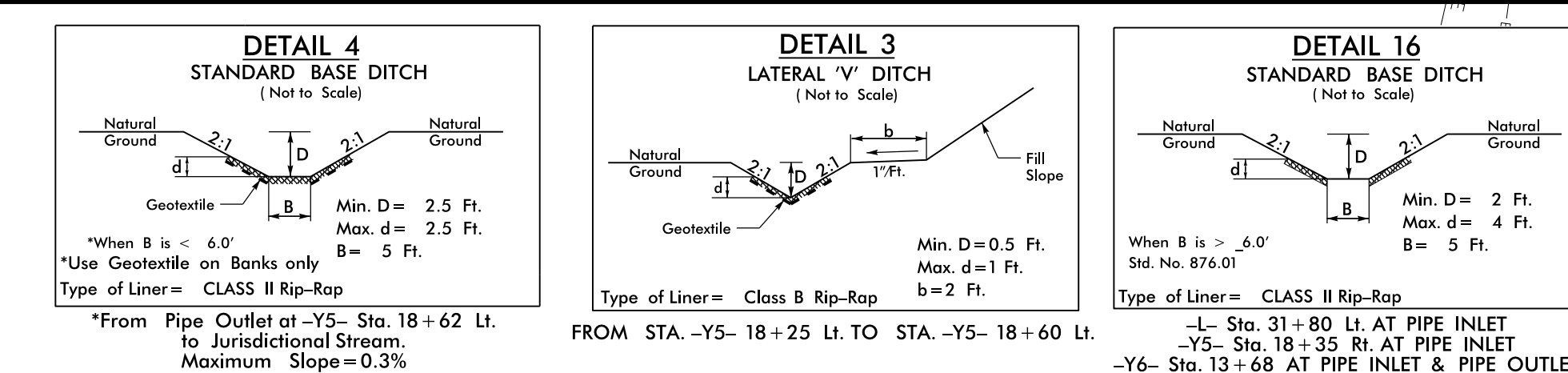
MATCHLINE STA. 14+00.00

MATCHLINE SEE SHEET 5 -L- STA. 29+00.00

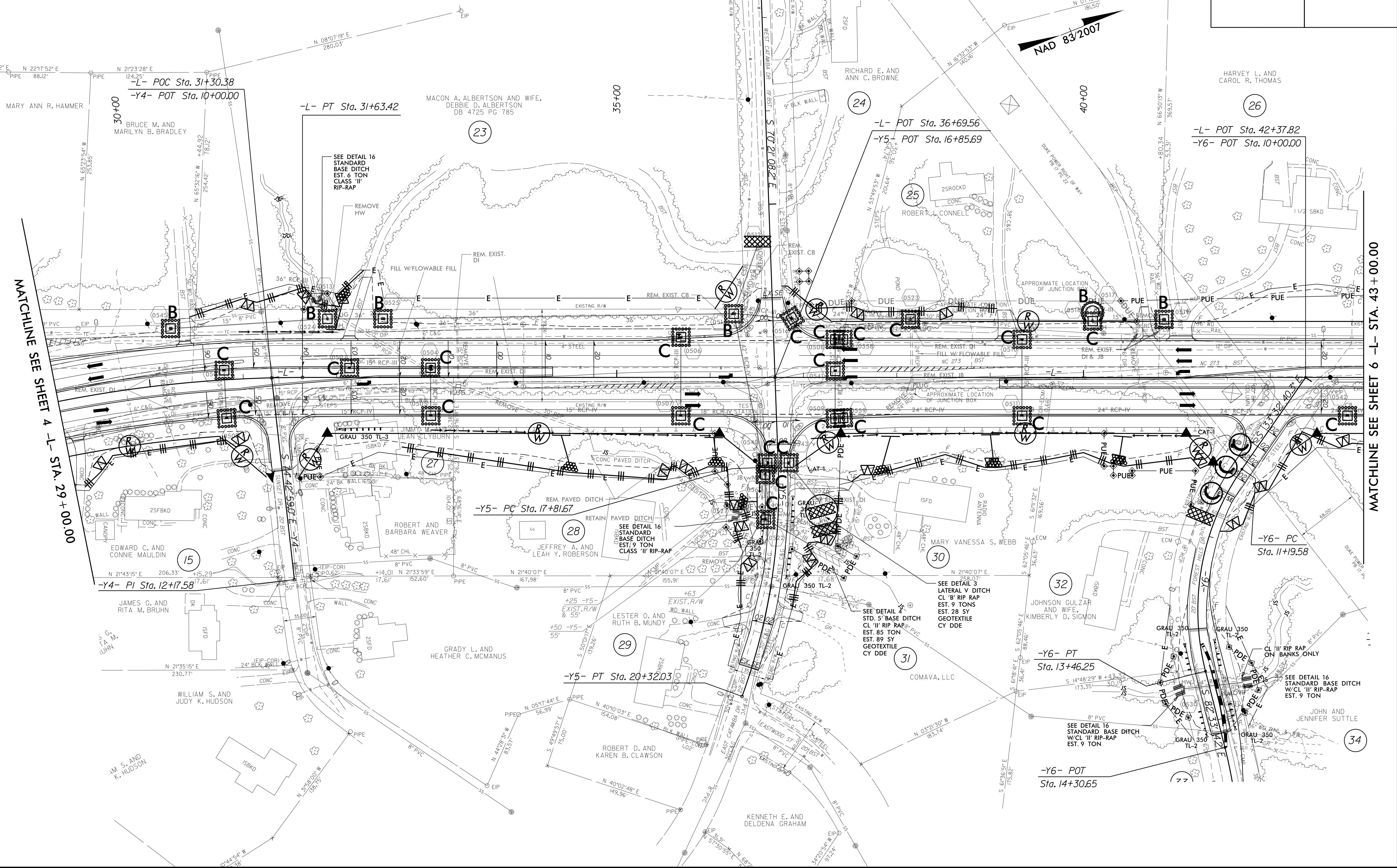


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 REVISIONS: 1
 REVISIONS: 2
 REVISIONS: 3

PROJECT REFERENCE NO. U-3633	SHEET NO. EC-14/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



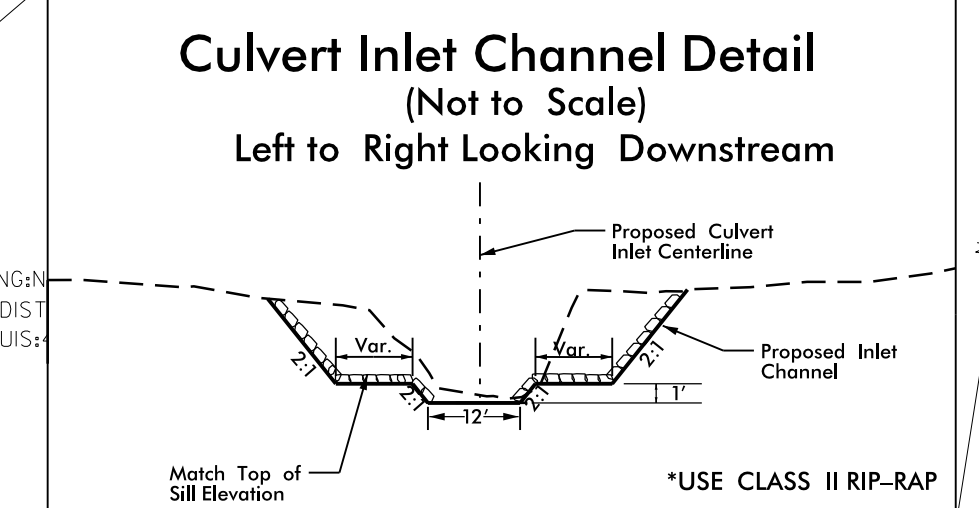
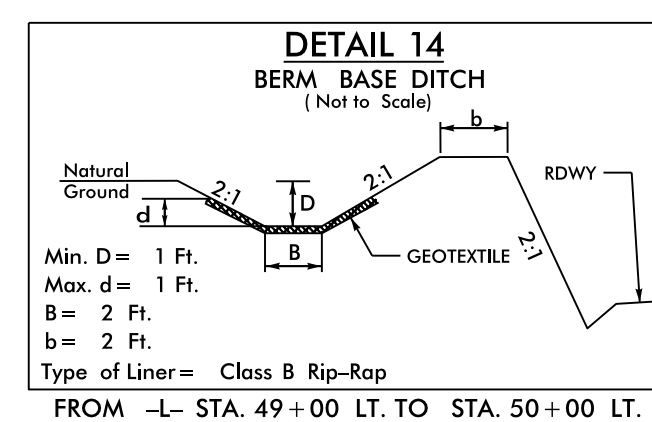
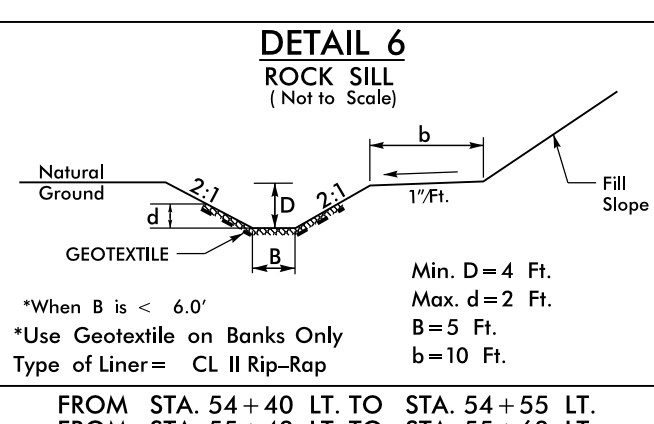
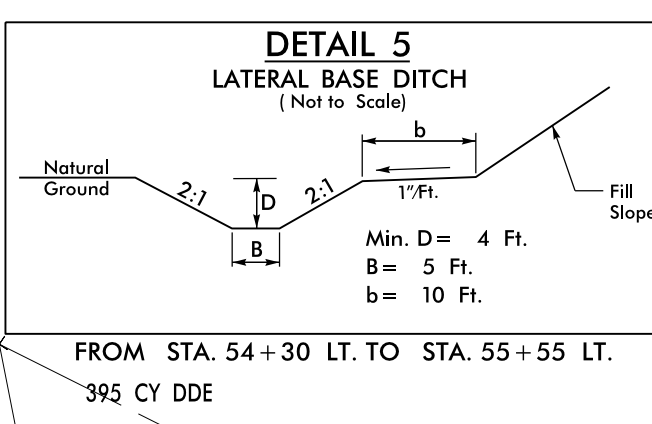
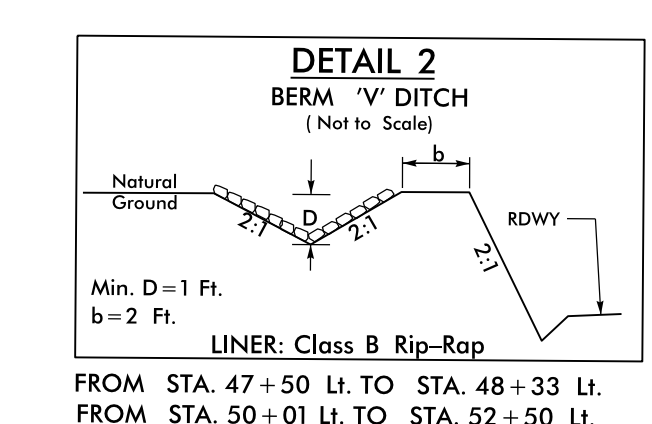
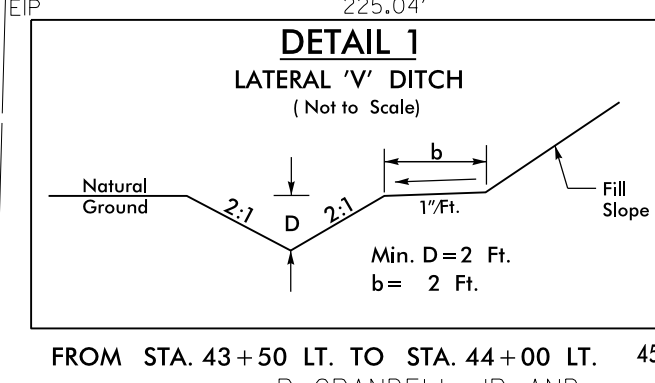
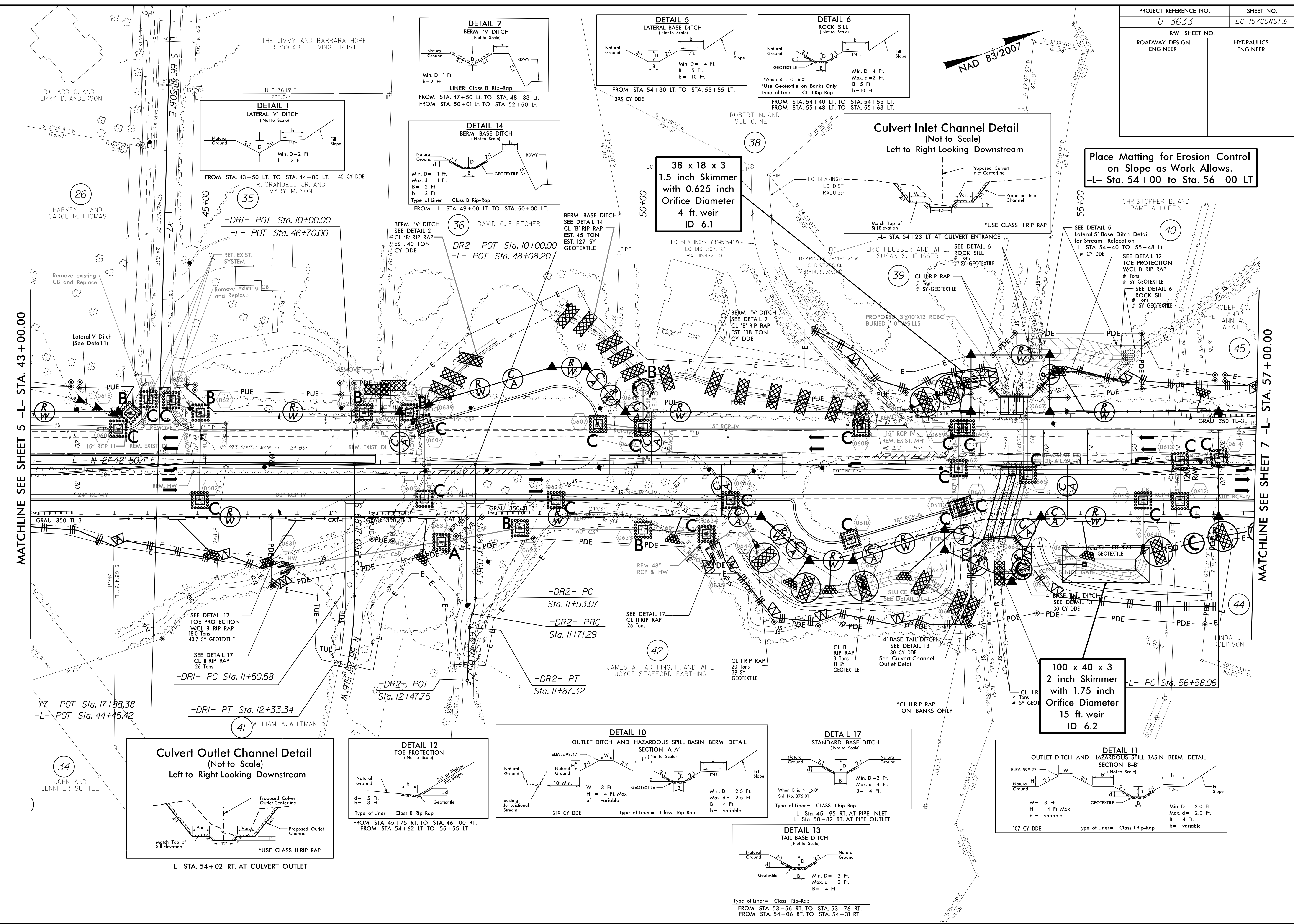
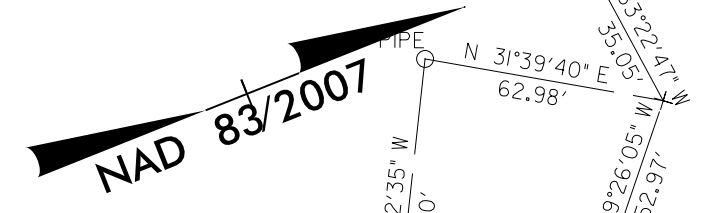
Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 42+00 to Sta. 43+00 LT



MATCHLINE SEE SHEET 4 -L- STA. 29+00.00

MATCHLINE SEE SHEET 6 -L- STA. 43+00.00

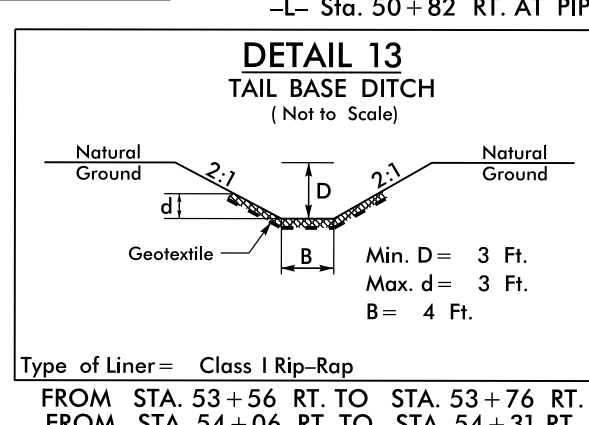
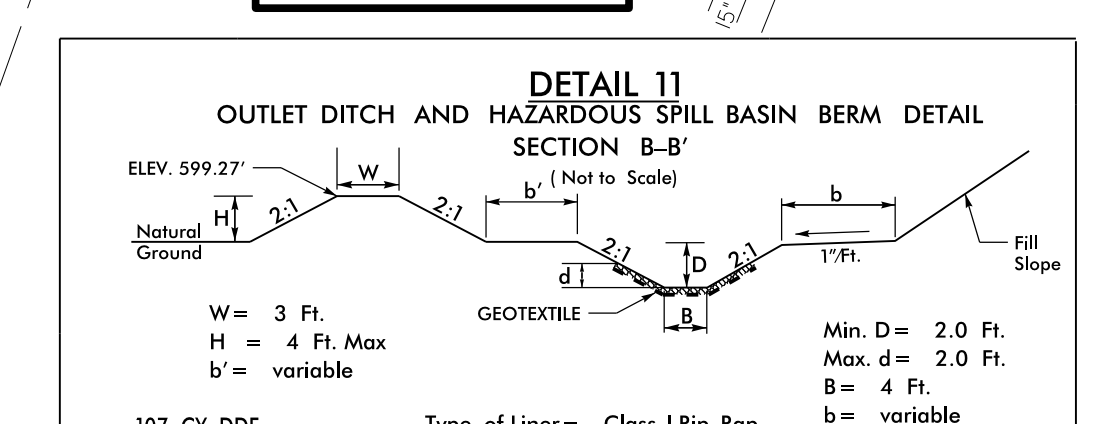
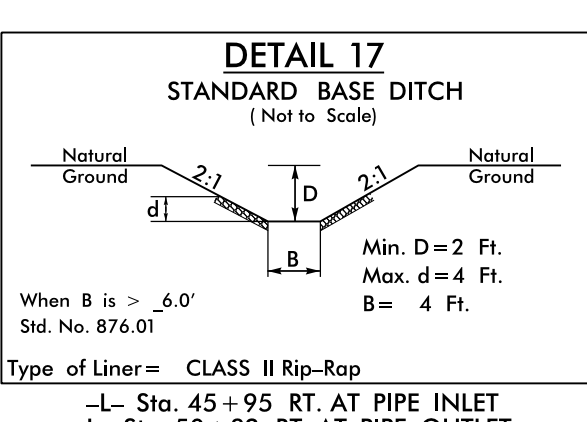
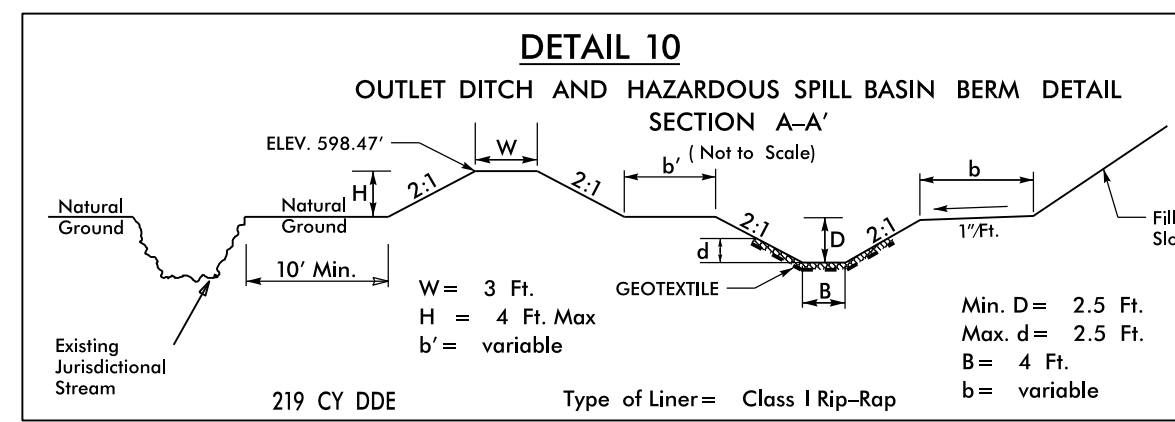
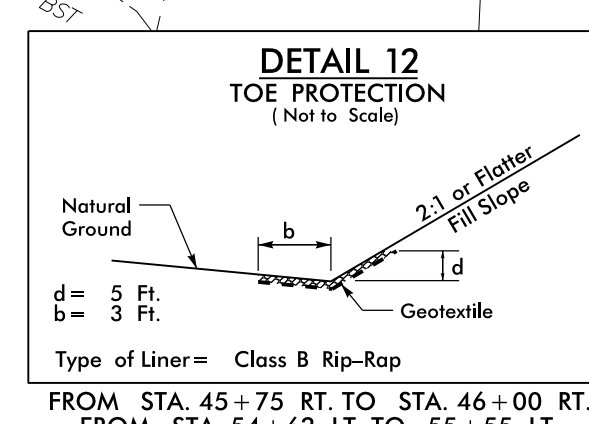
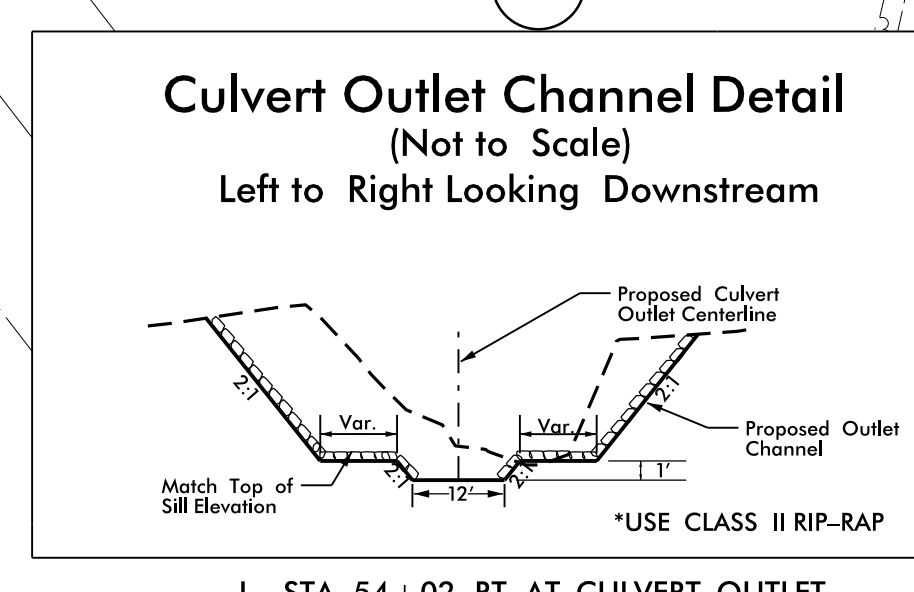
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34-EC-14/CONST.5
P:\Projects\U-3633\EC-14\CONST.5.dwg



Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 54+00 to Sta. 56+00 LT

38 x 18 x 3
1.5 inch Skimmer
with 0.625 inch Orifice Diameter
4 ft. weir
ID 6.1

100 x 40 x 3
2 inch Skimmer
with 1.75 inch Orifice Diameter
15 ft. weir
ID 6.2



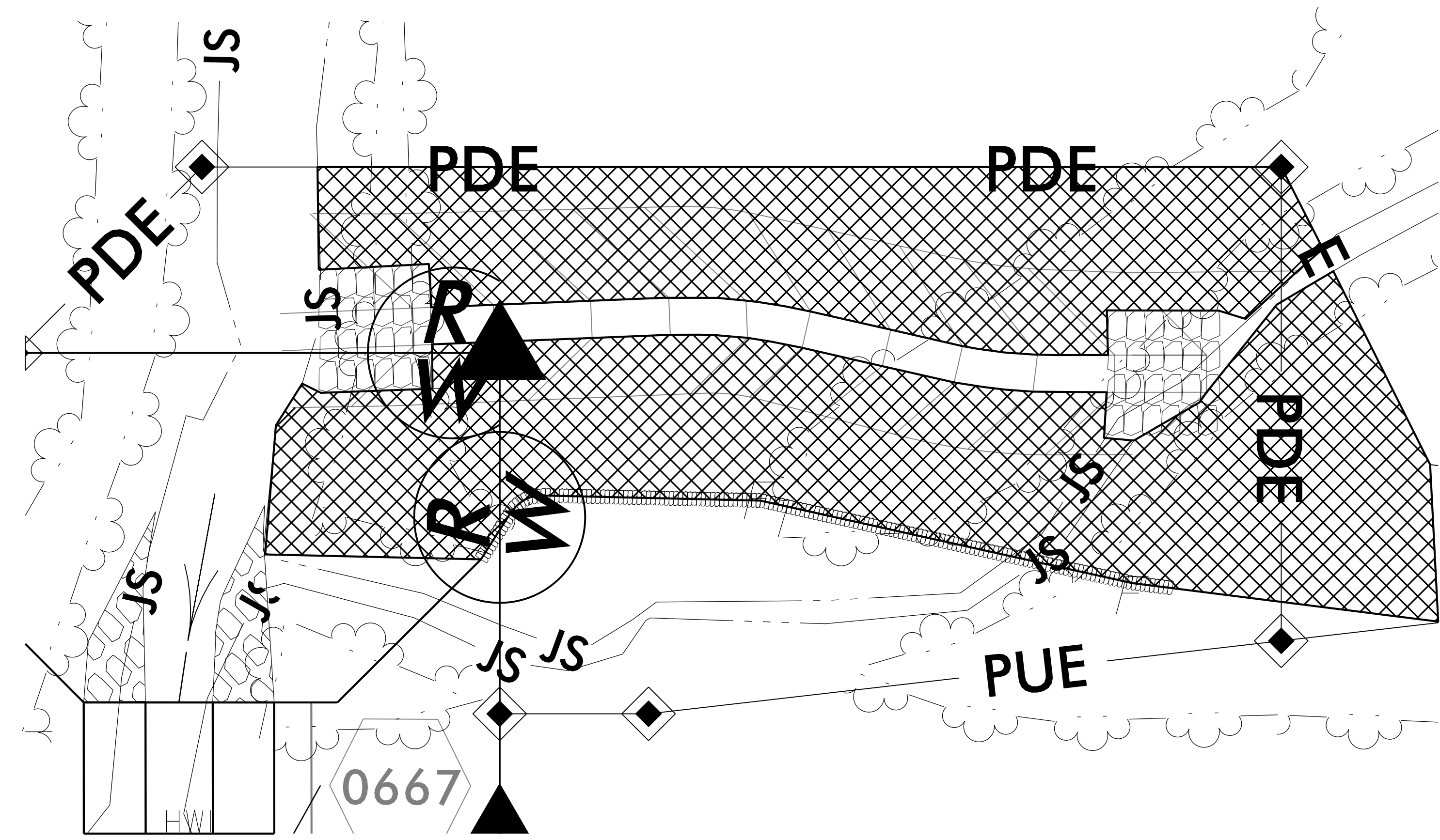
MATCHLINE SEE SHEET 5 -L- STA. 43+00.00

MATCHLINE SEE SHEET 7 -L- STA. 57+00.00

8/17/99
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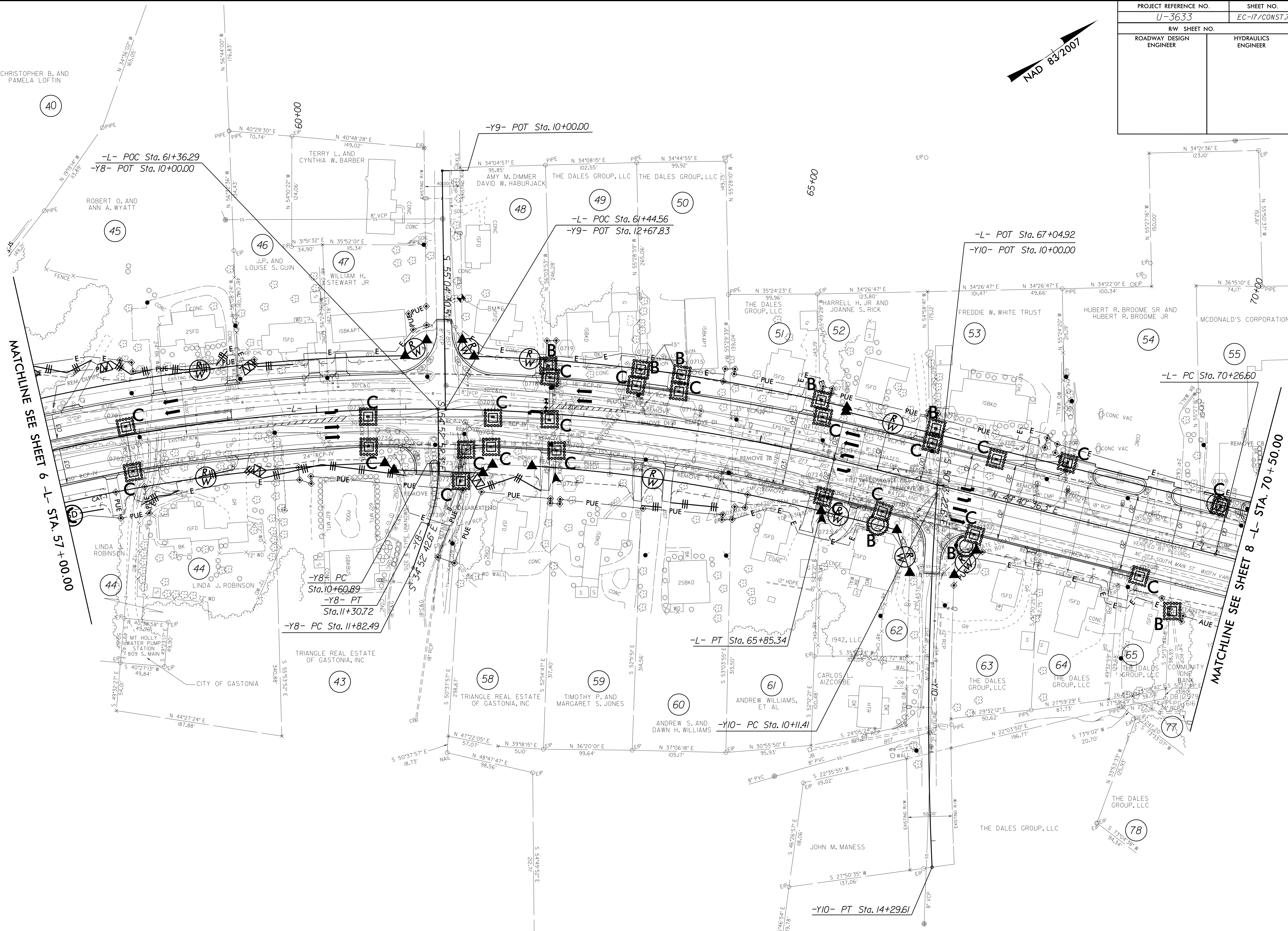
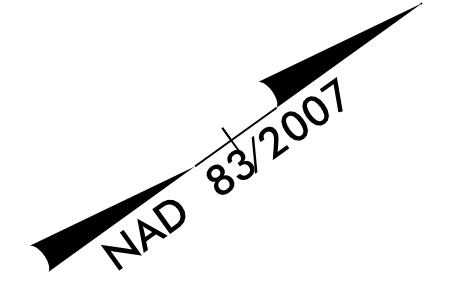
PROJECT REFERENCE NO. <i>U-3633</i>	SHEET NO. <i>EC-16/CONST.6</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

0.13 ACRE STREAMBANK REFORESTATION



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

PROJECT REFERENCE NO. U-3633		SHEET NO. EC-17/CONST.7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



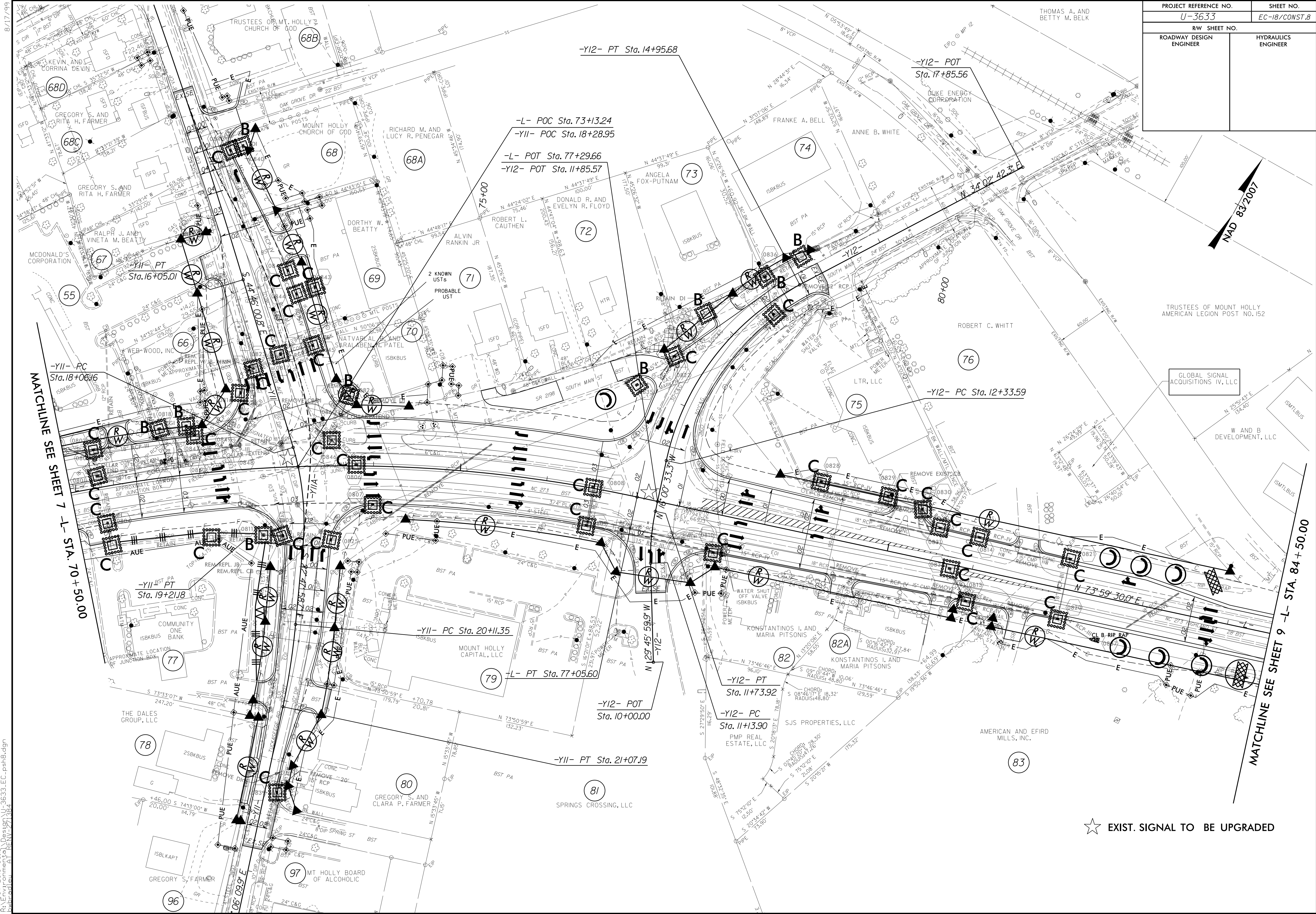
MATCHLINE SEE SHEET 6 -L- STA. 57+00.00

MATCHLINE SEE SHEET 8 -L- STA. 70+50.00

8/17/99

04-OCT-2016 09:09
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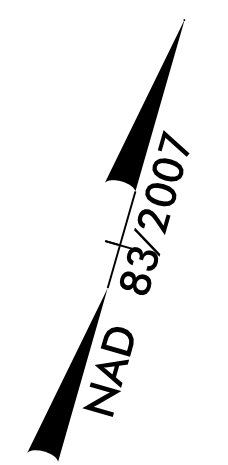
PROJECT REFERENCE NO.	SHEET NO.
U-3633	EC-18/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



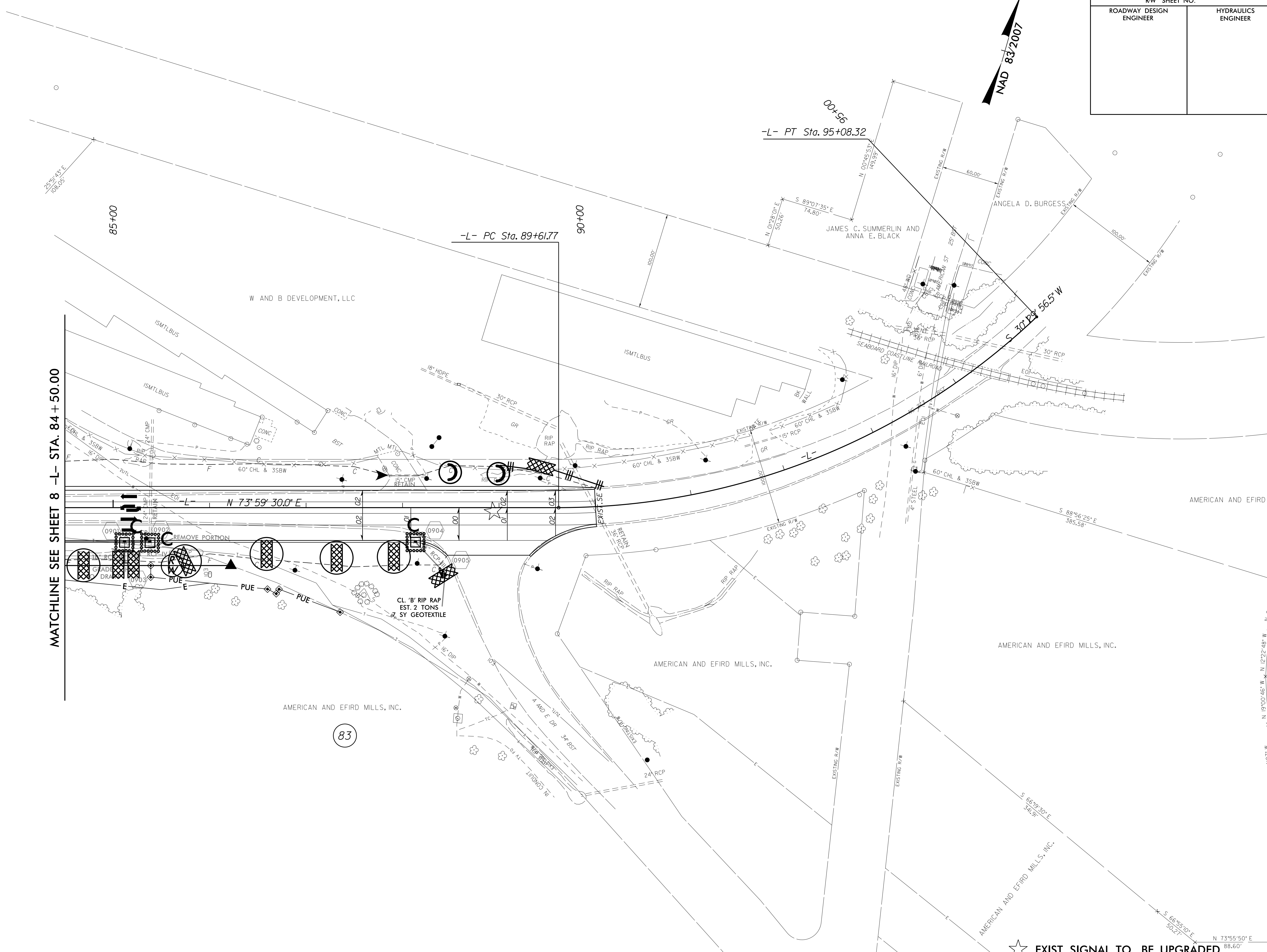
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 24-10-2016 10:11 AM
 24-10-2016 10:11 AM

PROJECT REFERENCE NO.	SHEET NO.
U-3633	EC-19/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE SEE SHEET 8 -L- STA. 84+50.00

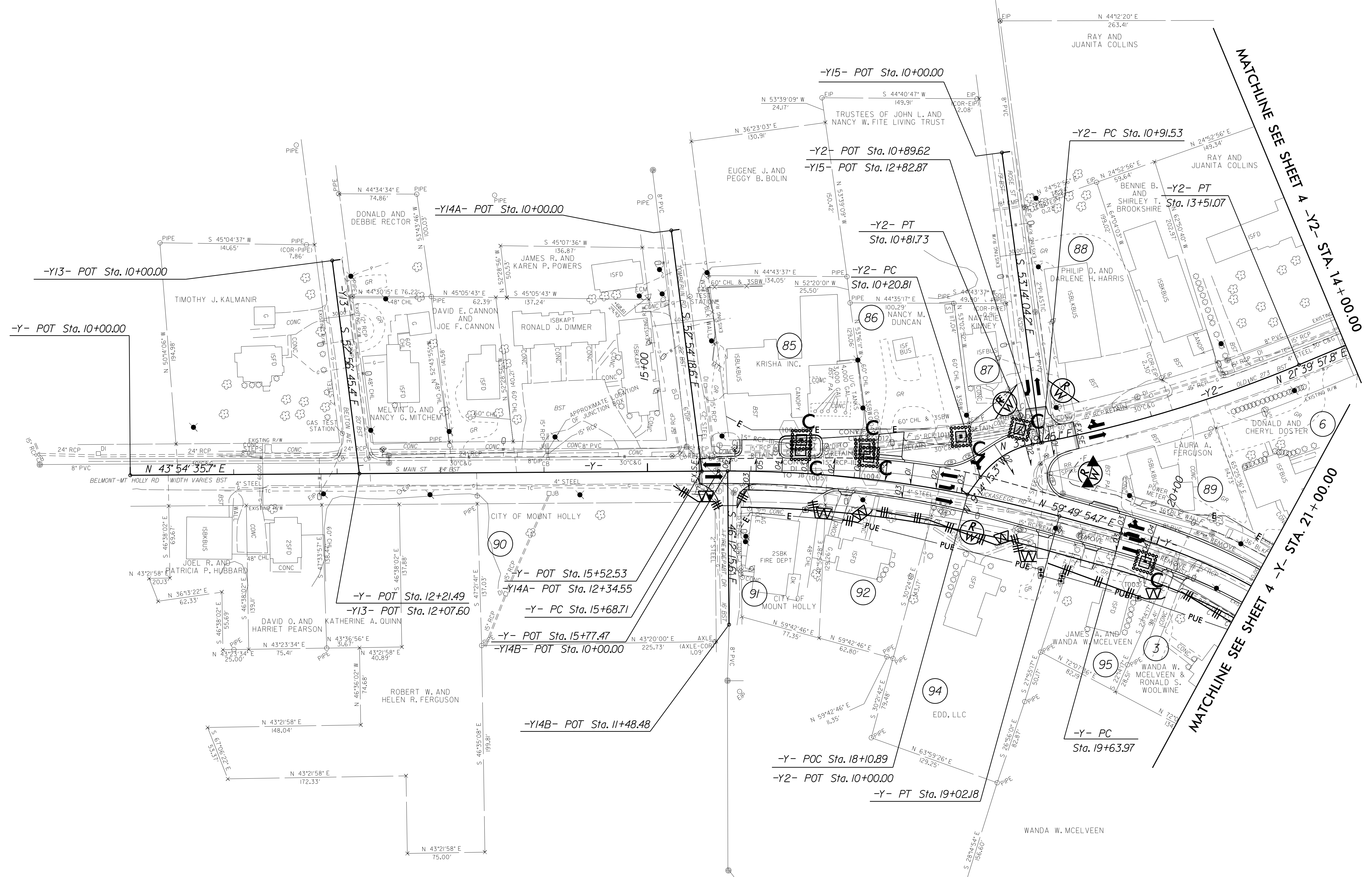
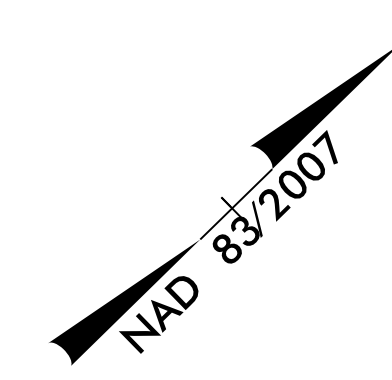


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★ EXIST. SIGNAL TO BE UPGRADED

8/17/99
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 REVISIONS:

PROJECT REFERENCE NO. U-3633		SHEET NO. EC-20/CONST.10	
RW SHEET NO. ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



8/17/99

04-OCT-2016 09:22
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 RNN-271384