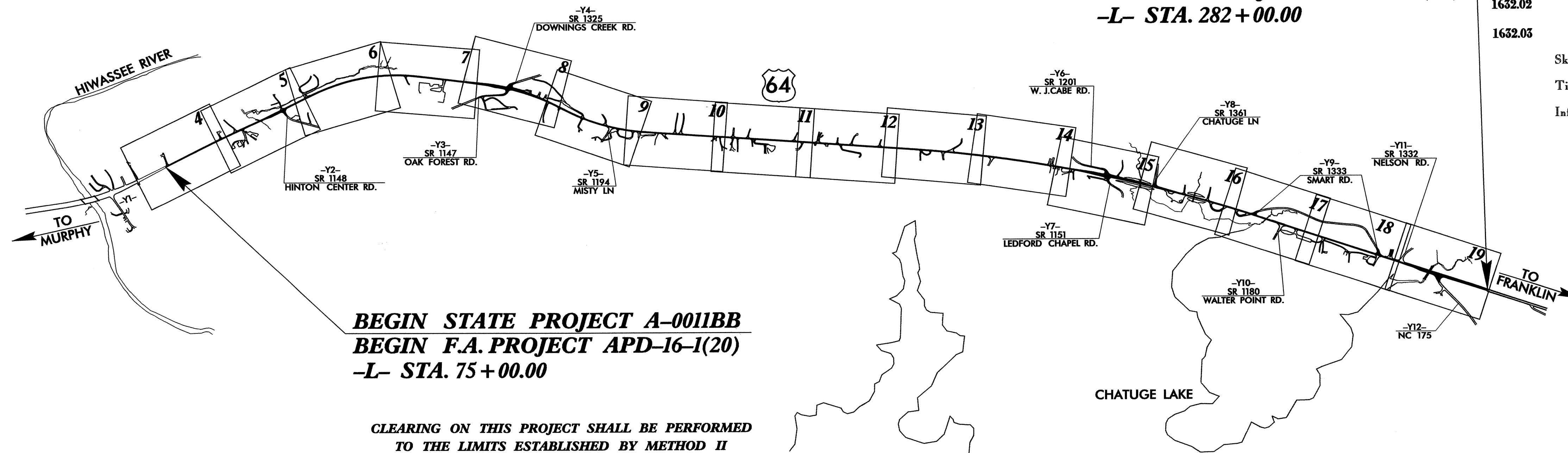
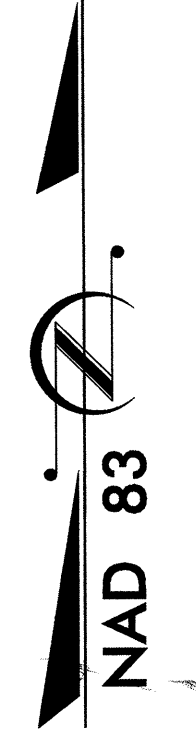


TIP PROJECT: A-0011BB

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

LOCATION: US 64 FROM EAST OF THE HIWASSEE RIVER TO EAST OF NC 175
 TYPE OF WORK: GRADING, PAVING, DRAINAGE, GUARDRAIL, AND CULVERTS



BEGIN STATE PROJECT A-0011BB
BEGIN F.A. PROJECT APD-16-1(20)
-L- STA. 75 + 00.00

END STATE PROJECT A-0011BB
END F.A. PROJECT APD-16-1(20)
-L- STA. 282 + 00.00

CLEARING ON THIS PROJECT SHALL BE PERFORMED
 TO THE LIMITS ESTABLISHED BY METHOD II

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	A-0011BB	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	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	TBD
1630.01	Riser Basin	RB
	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-B	TRSCB
	Wattle	W
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

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

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

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

2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

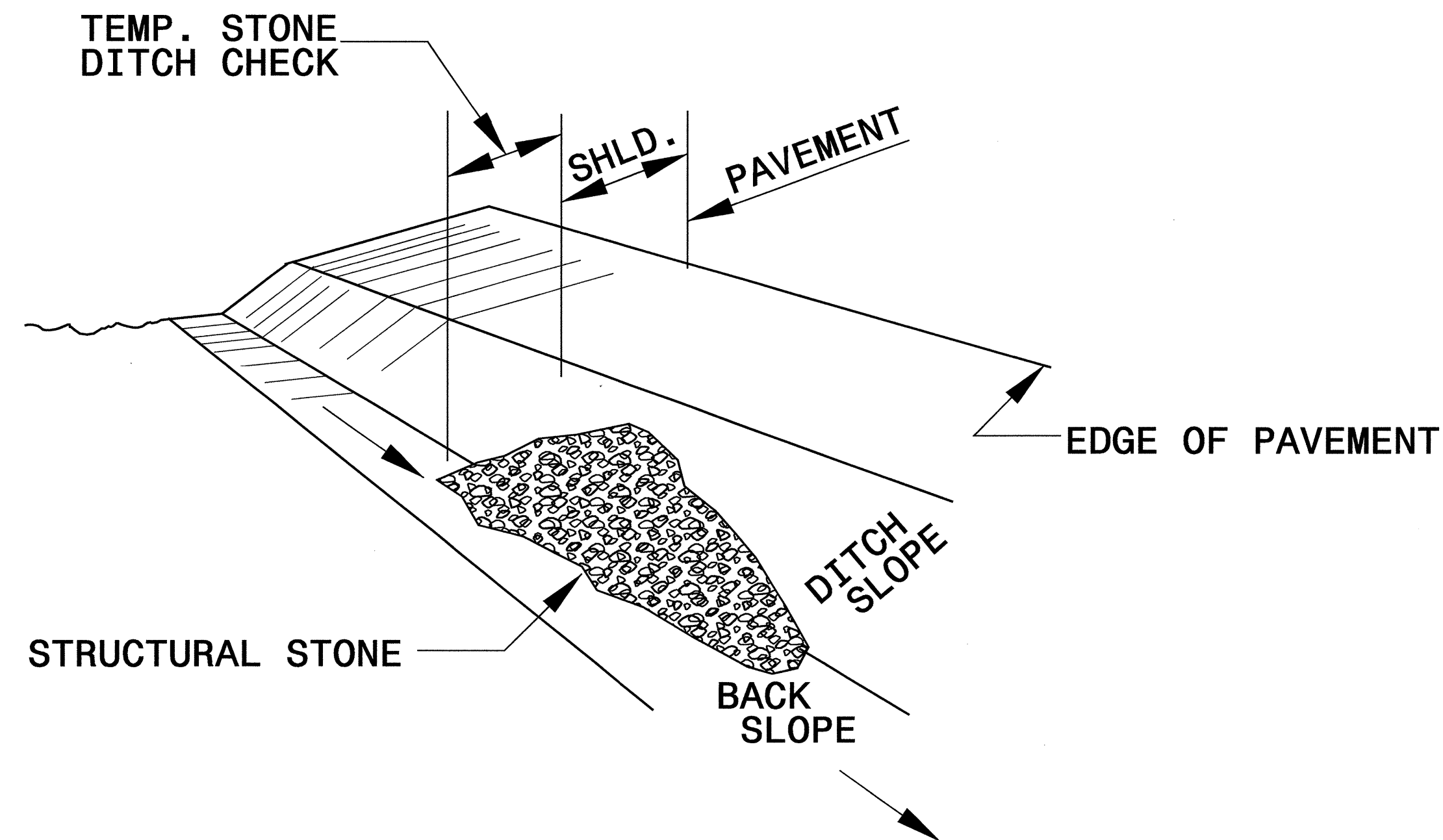
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1606.01 Special Sediment Control Fence	1632.01 Rock Inlet Sediment Trap Type A
1607.01 Gravel Construction Entrance	1632.02 Rock Inlet Sediment Trap Type B
1622.01 Temporary Berms and Slope Drains	1632.03 Rock Inlet Sediment Trap Type C
1630.03 Temporary Silt Ditch	1633.01 Temporary Rock Silt Check Type A
1630.05 Temporary Diversion	1634.01 Temporary Rock Sediment Dam Type A
	1634.02 Temporary Rock Sediment Dam Type B
	1635.01 Rock Pipe Inlet Sediment Trap Type A
	1635.02 Rock Pipe Inlet Sediment Trap Type B

04-3008 10:25
 .print or path
 .A-0011BB-2003

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

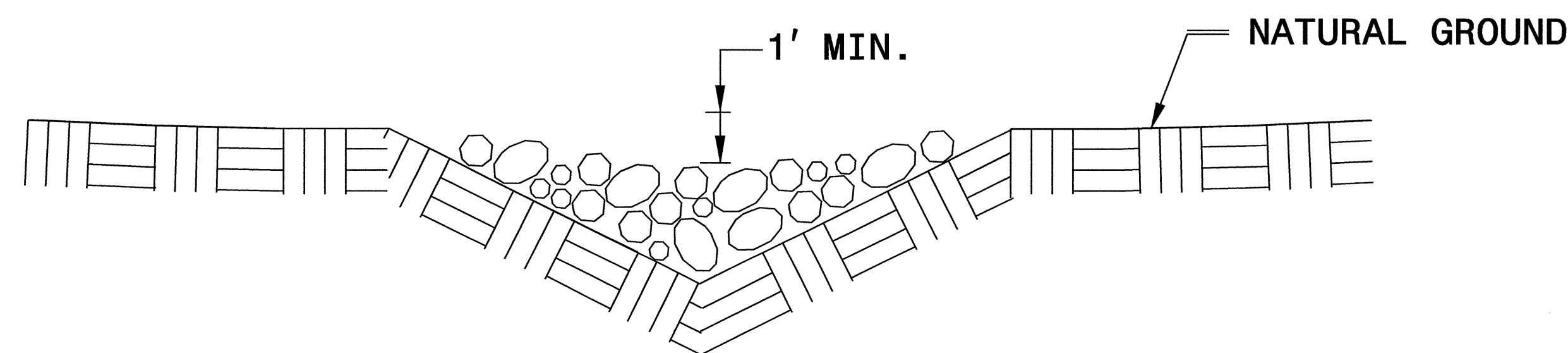


ISOMETRIC VIEW

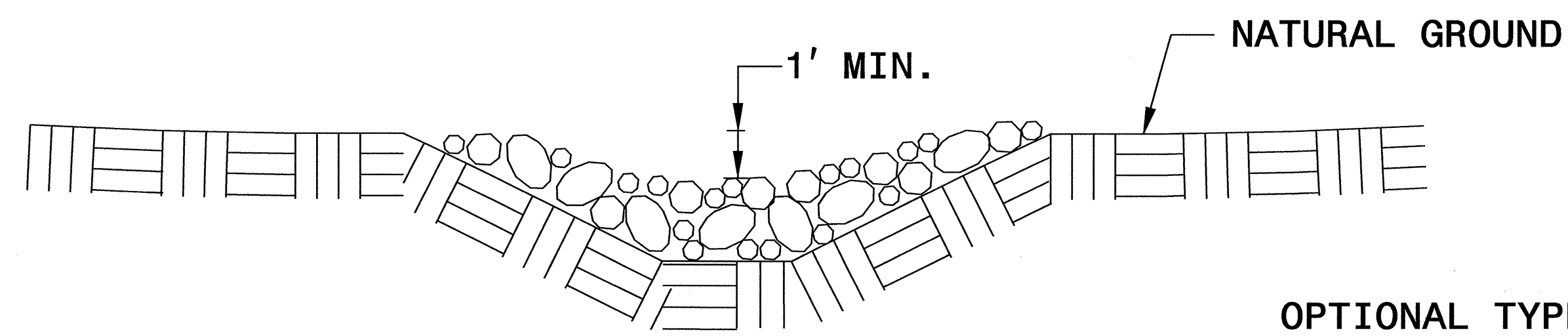
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

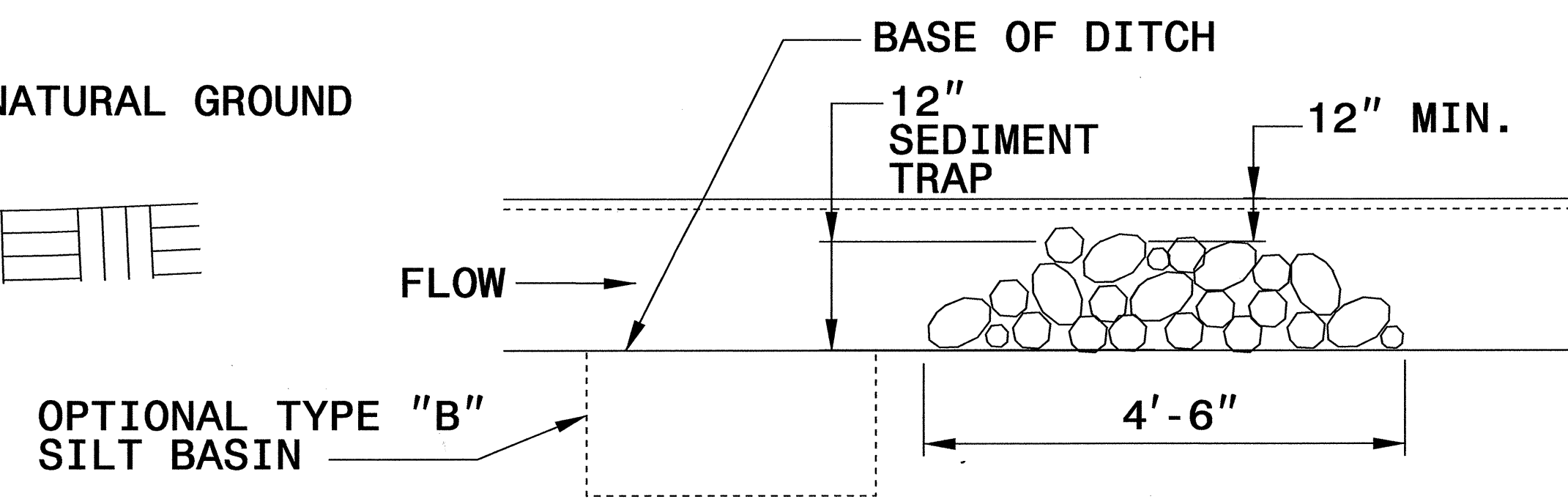
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



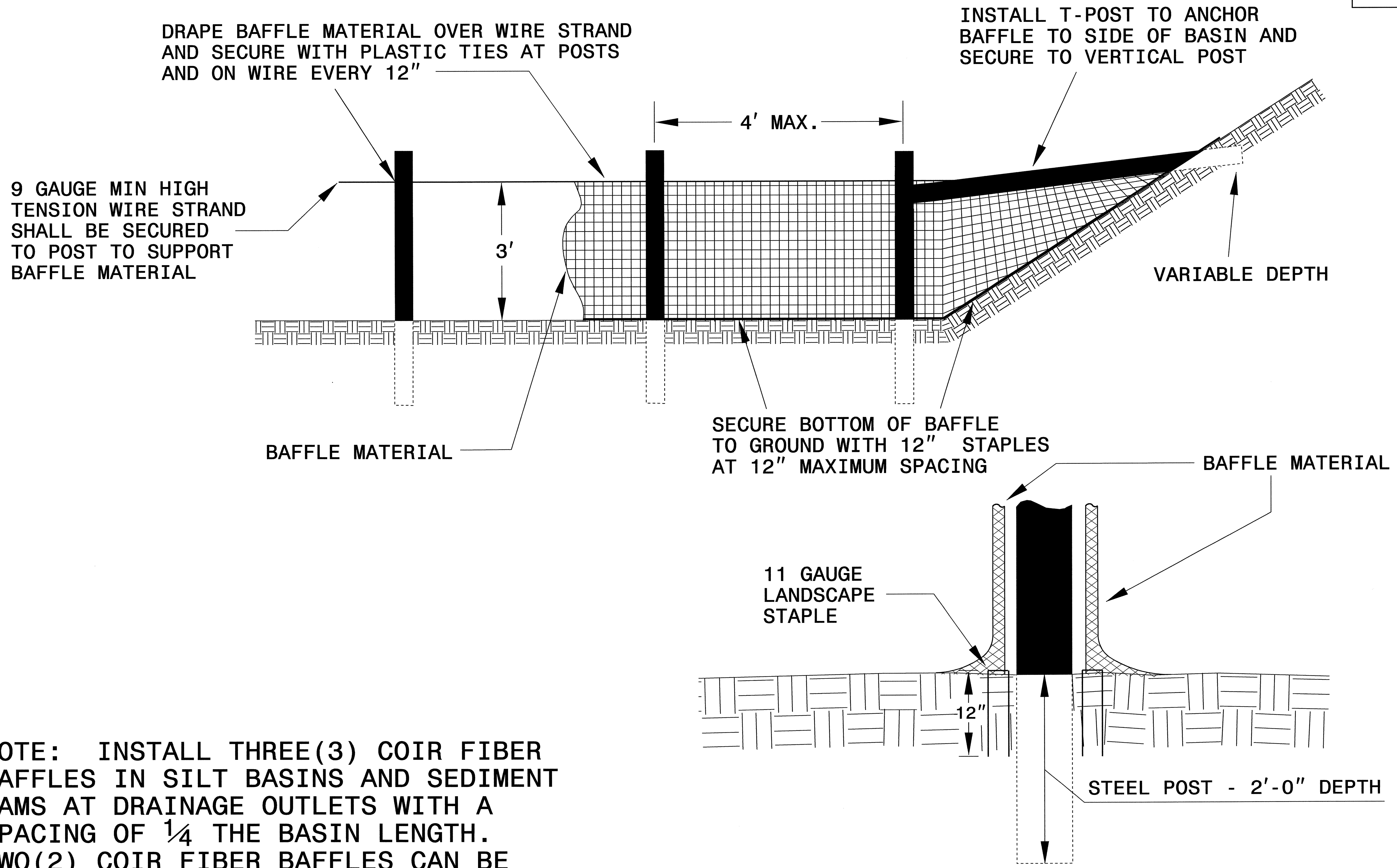
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-2A
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

COIR FIBER BAFFLE DETAIL

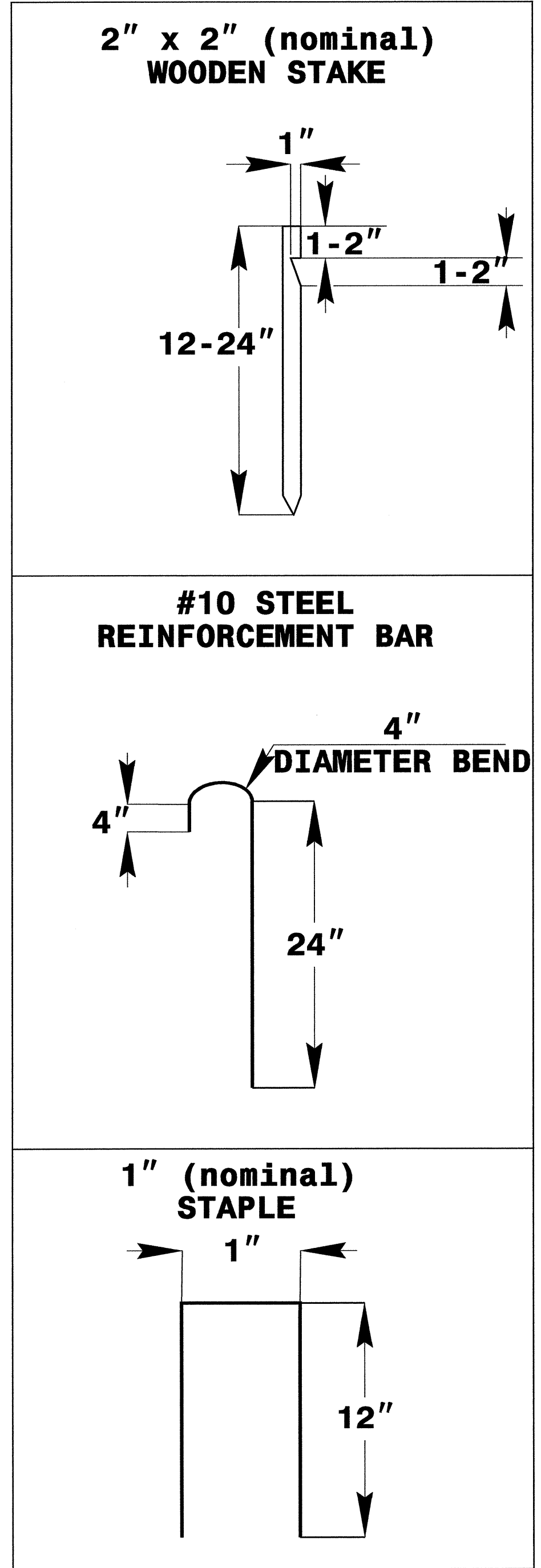
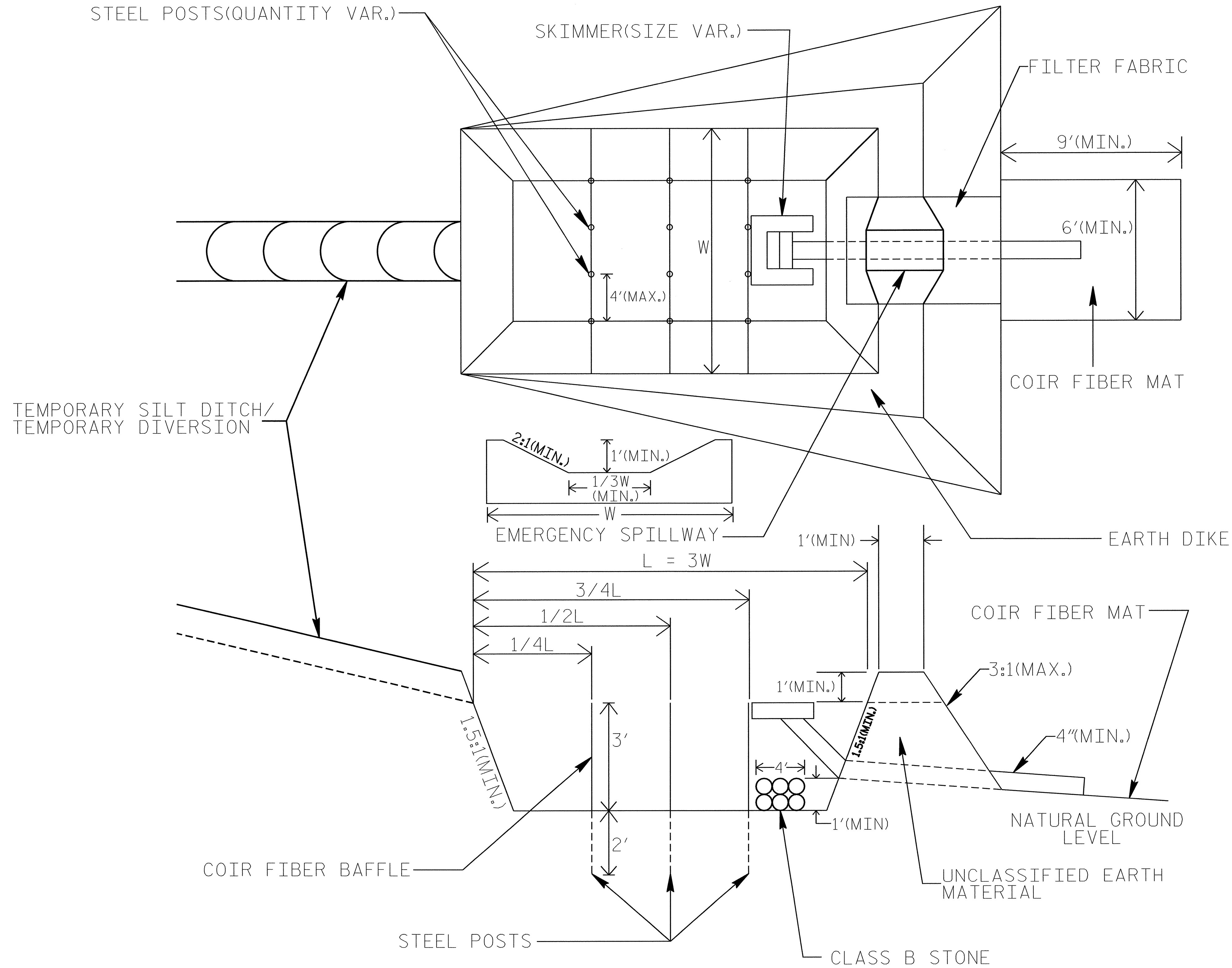


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



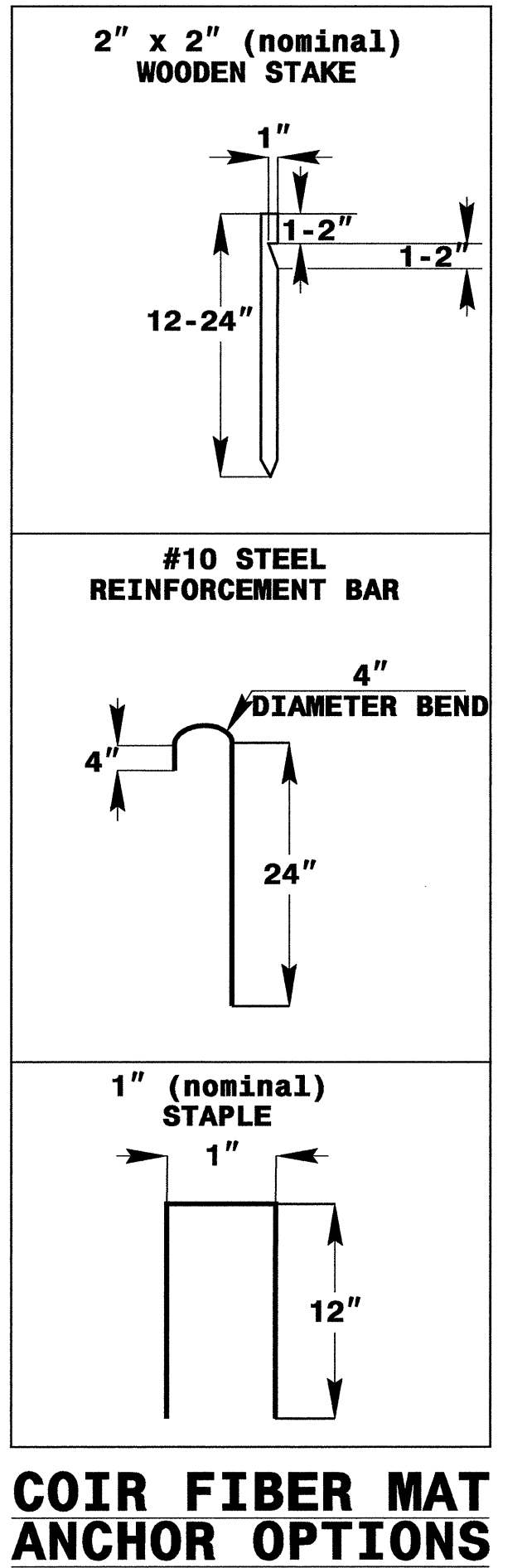
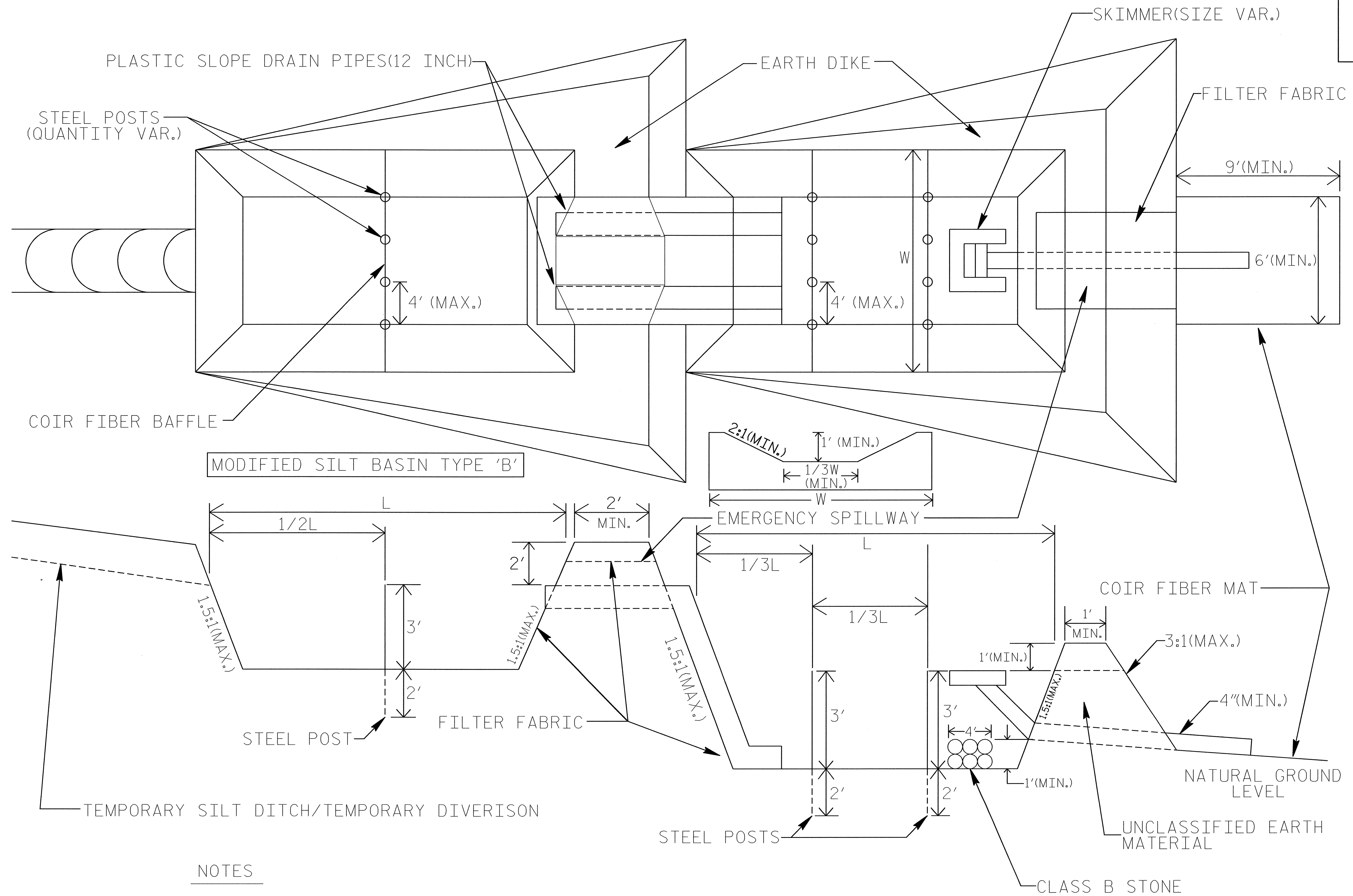
**COIR FIBER MAT
ANCHOR OPTIONS**

NOTES:

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

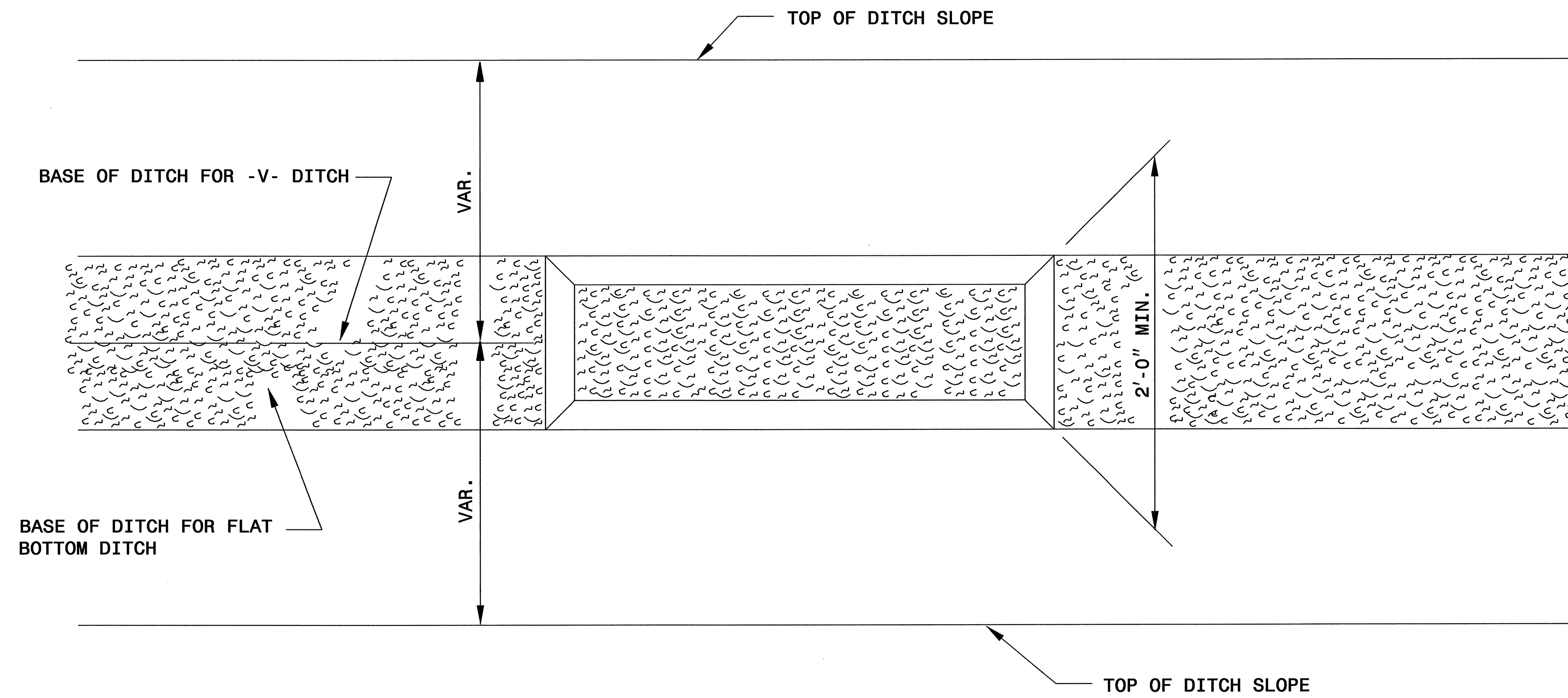


NOTES

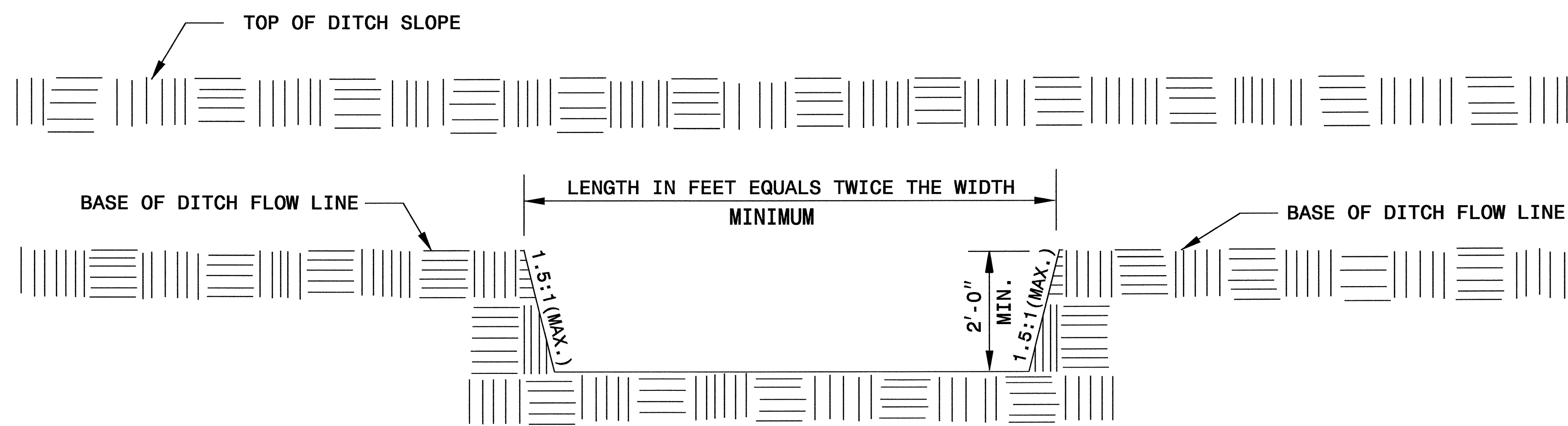
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN 'B' DETAIL



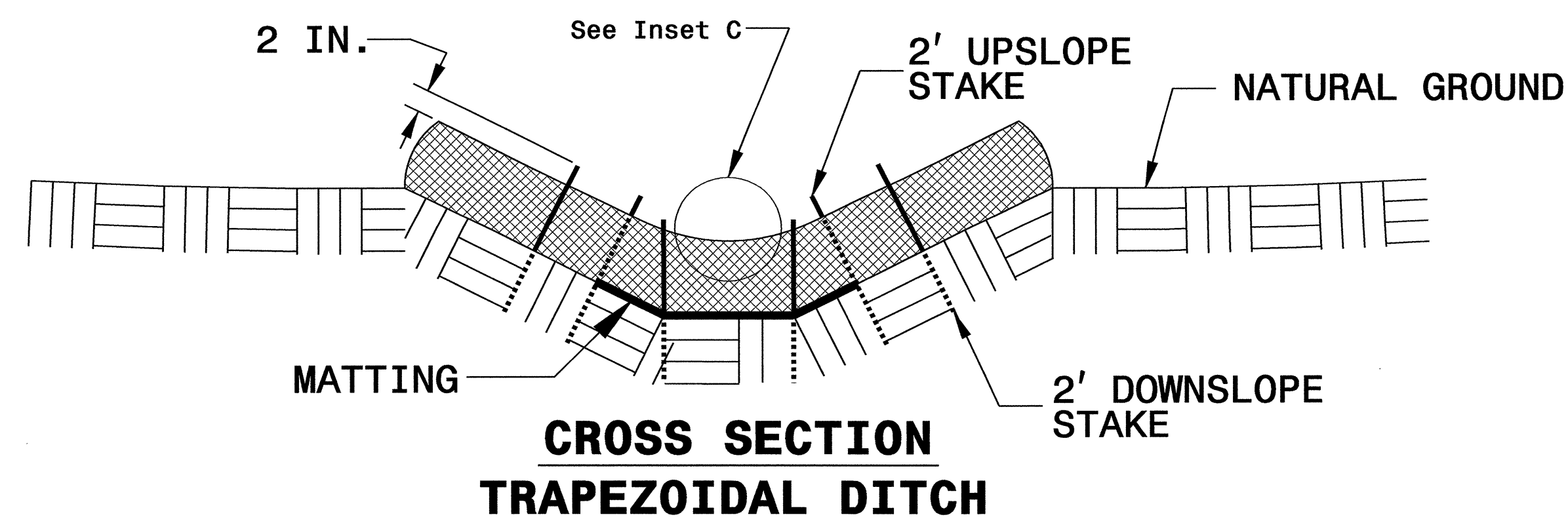
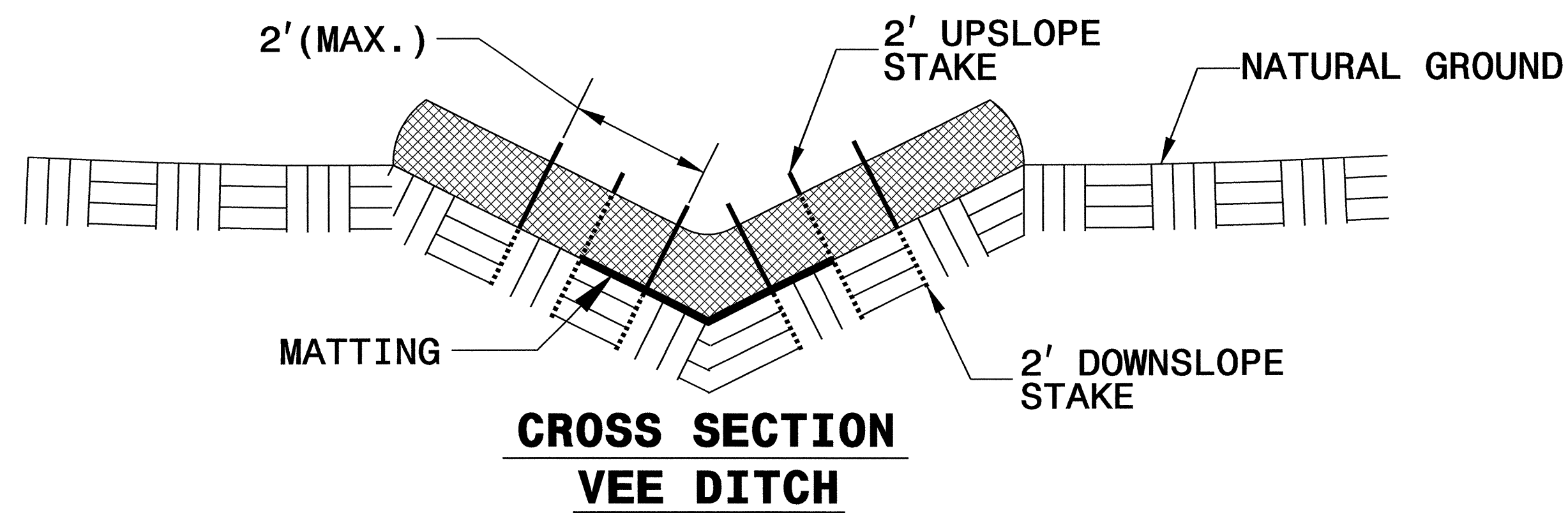
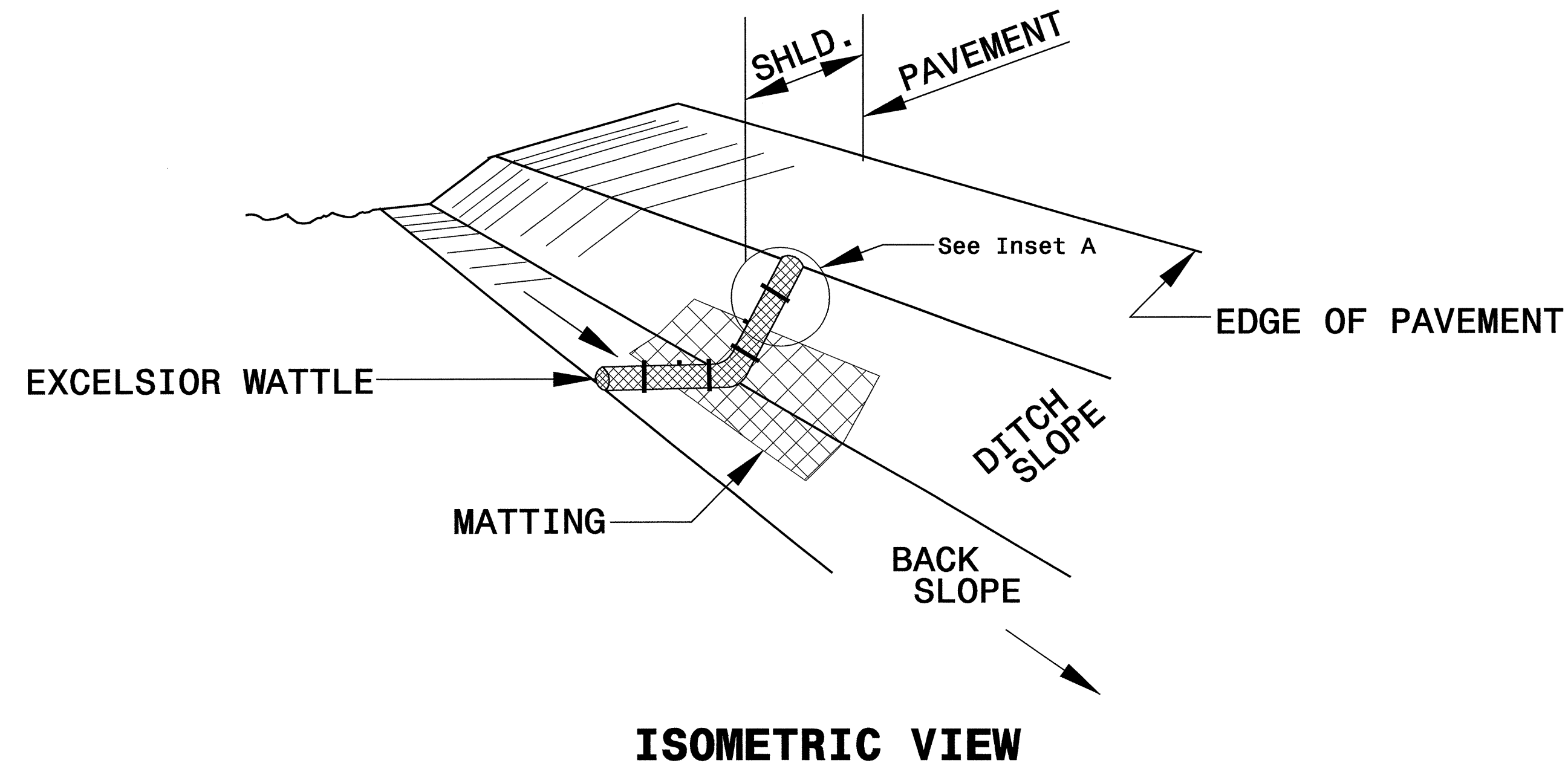
PLAN



ELEVATION

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

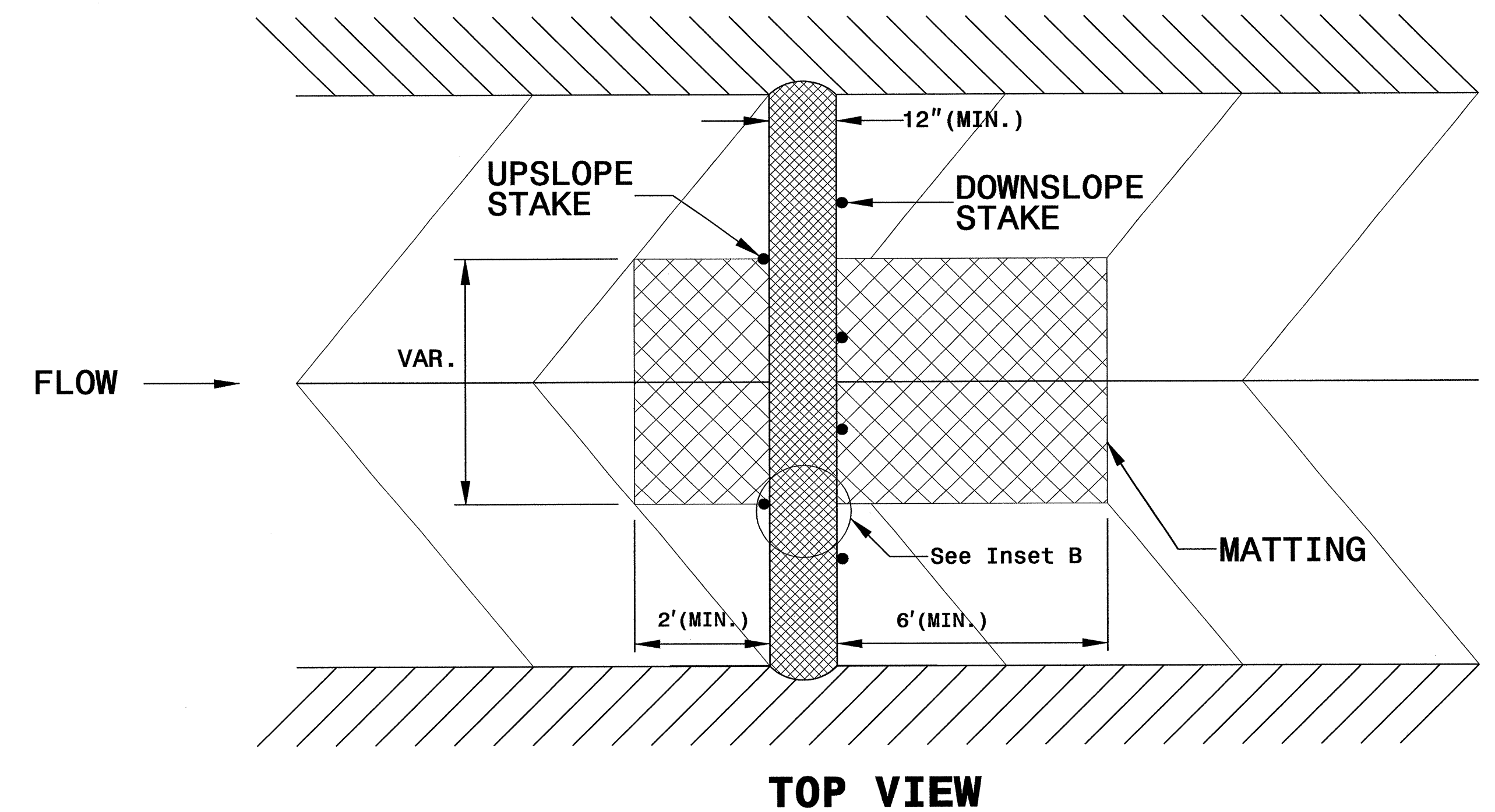
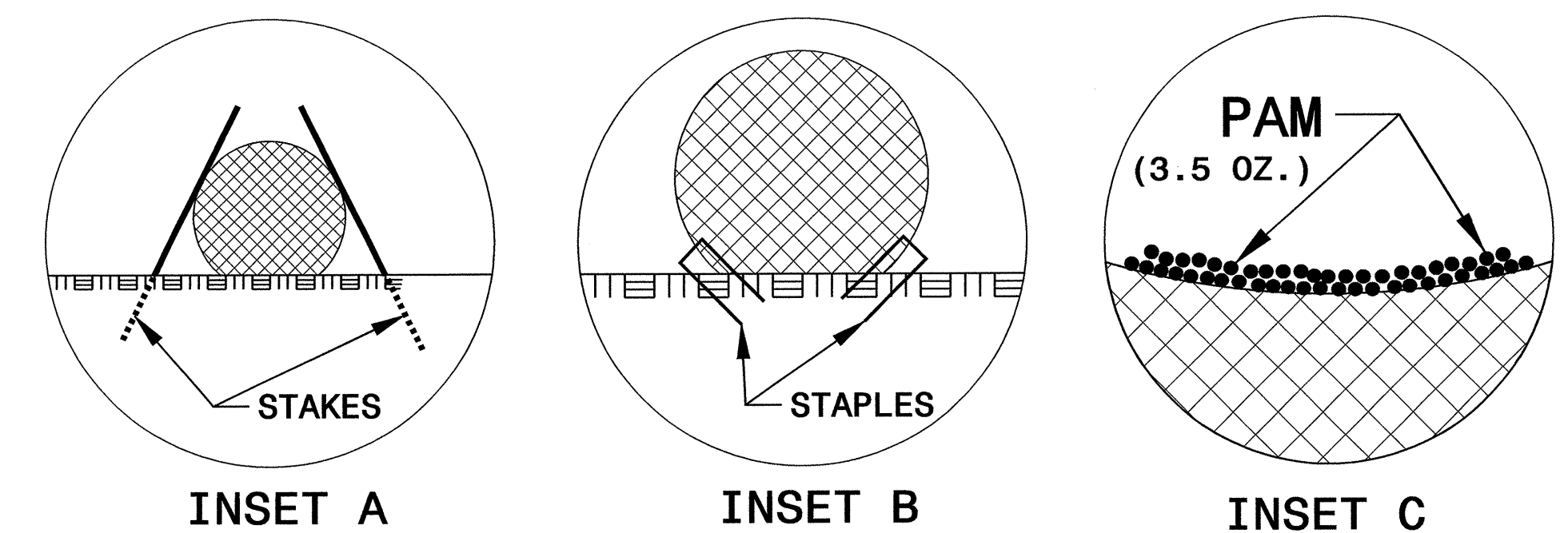
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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.

INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.25 IN.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	95+50	114+00	RT	1170
7	-L-	116+07	117+50	RT	140
7	-L-	117+50	119+00	RT	215
7	-L-	119+00	119+50	RT	80
7	-L-	119+50	120+00	RT	80
8	-L-	127+50	129+50	RT	275
8	-L-	130+50	136+50	RT	825
8	-L-	131+00	136+00	LT	690
9	-L-	137+75	140+00	RT	310
9	-L-	141+50	143+50	RT	230
10	-L-	153+50	171+80	RT	2515
11	-L-	169+00	170+50	LT	255
13	-L-	193+10	198+00	LT	675
13	-L-	193+50	196+50	RT	415
14	-L-	213+00	221+00	LT	1100
15	-L-	215+50	216+50	RT	140
17	-L-	250+50	256+00	RT	755
17	-L-	252+50	254+00	LT	140
18	-L-	255+00	259+50	LT	620
18	-L-	259+50	264+00	LT	620
18	-L-	263+00	264+00	RT	140
8	-Y3-	10+50	15+50	LT	525
8	-Y3-	10+75	12+25	RT	160
15	-Y6-	14+00	16+00	RT	195
				SUBTOTAL	12270
				MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER	21015
				TOTAL	33285
				SAY	34000

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	84+00	84+50	LT	70
5	-L-	88+00	88+50	RT	105
9	-L-	143+50	144+60	RT	110
11	-L-	173+50	179+00	RT	755
15	-Y6-	12+25	12+75	RT	55
9	-DR1LT-	11+00	11+25	RT	15
11	-DR2RT-	10+25	12+25	LT	150
11	-DR2RT-	10+25	12+25	RT	150
9	-DR1LT-	11+00	11+25	RT	20
11	-DR2RT-	10+25	12+25	RT	150
11	-DR2RT-	10+25	12+25	LT	150
				SUBTOTAL	1730
				ADDITIONAL PSRM TO BE INSTALLED	4490
				TOTAL	6220
				SAY	6500

8/17/99

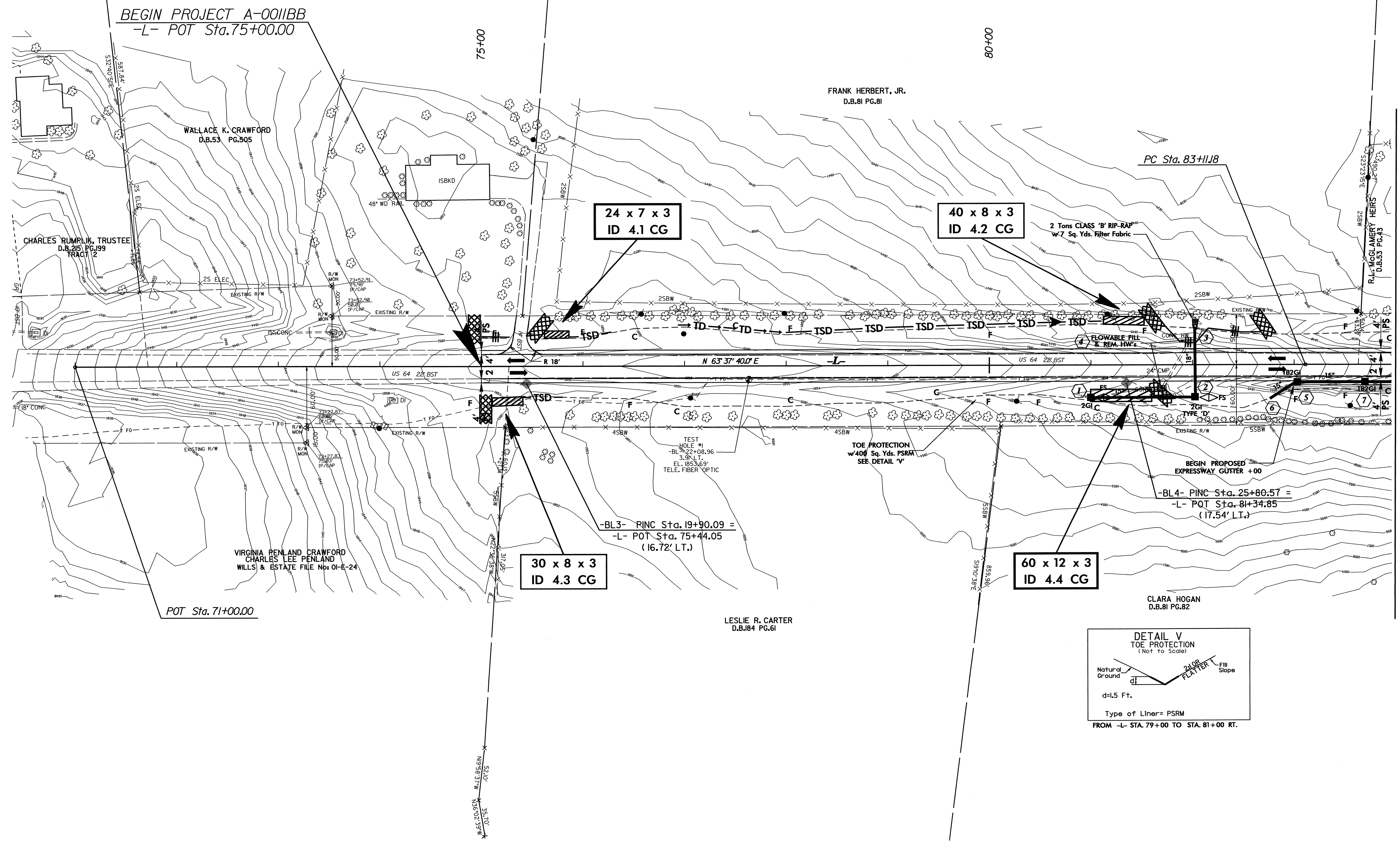
PROJECT REFERENCE NO.		SHEET NO.	
A-0011BB		EC-4/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4**

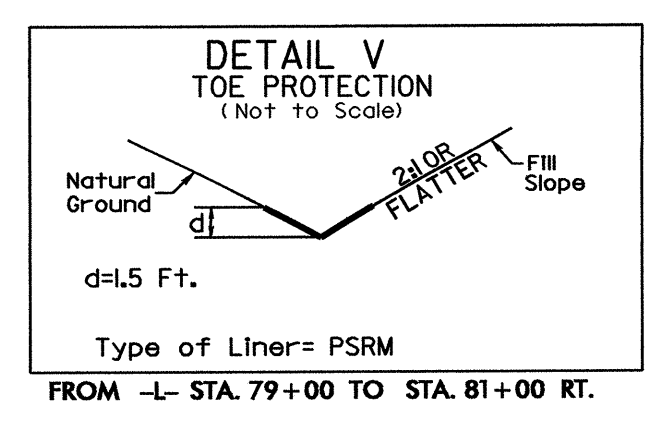
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-L-
PI Sta 85+94.05
 $\Delta = 1' 37" 14.2" (RT)$
 $D = 0' 17" 11.3"$
 $L = 565.70'$
 $T = 282.87'$
 $R = 20,000.00'$

SEE SHEET 20 FOR -L- PROFILE



MATCHLINE -L- STA. 84+00 SEE SHEET 5



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 01 REV 2/2003
 Jennifer

PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

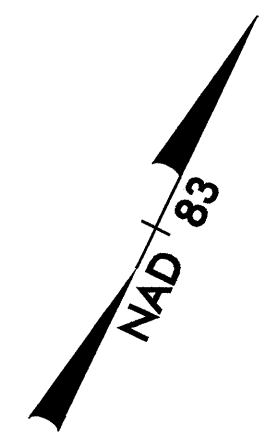
SEE SHEET 20 FOR -L- PROFILE

NOTE: PAVEMENT REMOVAL Sta. 85+00 TO 98+00 LT. SEE TYPICAL FOR DETAIL OF LOCATION

-L-
 PI Sta 85+94.05
 $\Delta = 1' 37" 14.2" (RT)$
 $D = 0' 17" 11.3"$
 $L = 565.70'$
 $T = 282.87'$
 $R = 20,000.00'$

-Y2-
 PI Sta 91+59.75
 $\Delta = 1' 37" 14.2" (LT)$
 $D = 0' 17" 11.3"$
 $L = 565.70'$
 $T = 282.87'$
 $R = 20,000.00'$

-Y2-
 PI Sta 11+62.05
 $\Delta = 4' 57" 59.3" (LT)$
 $D = 23' 52" 23.7"$
 $L = 175.79'$
 $T = 92.05'$
 $R = 240.00'$



INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

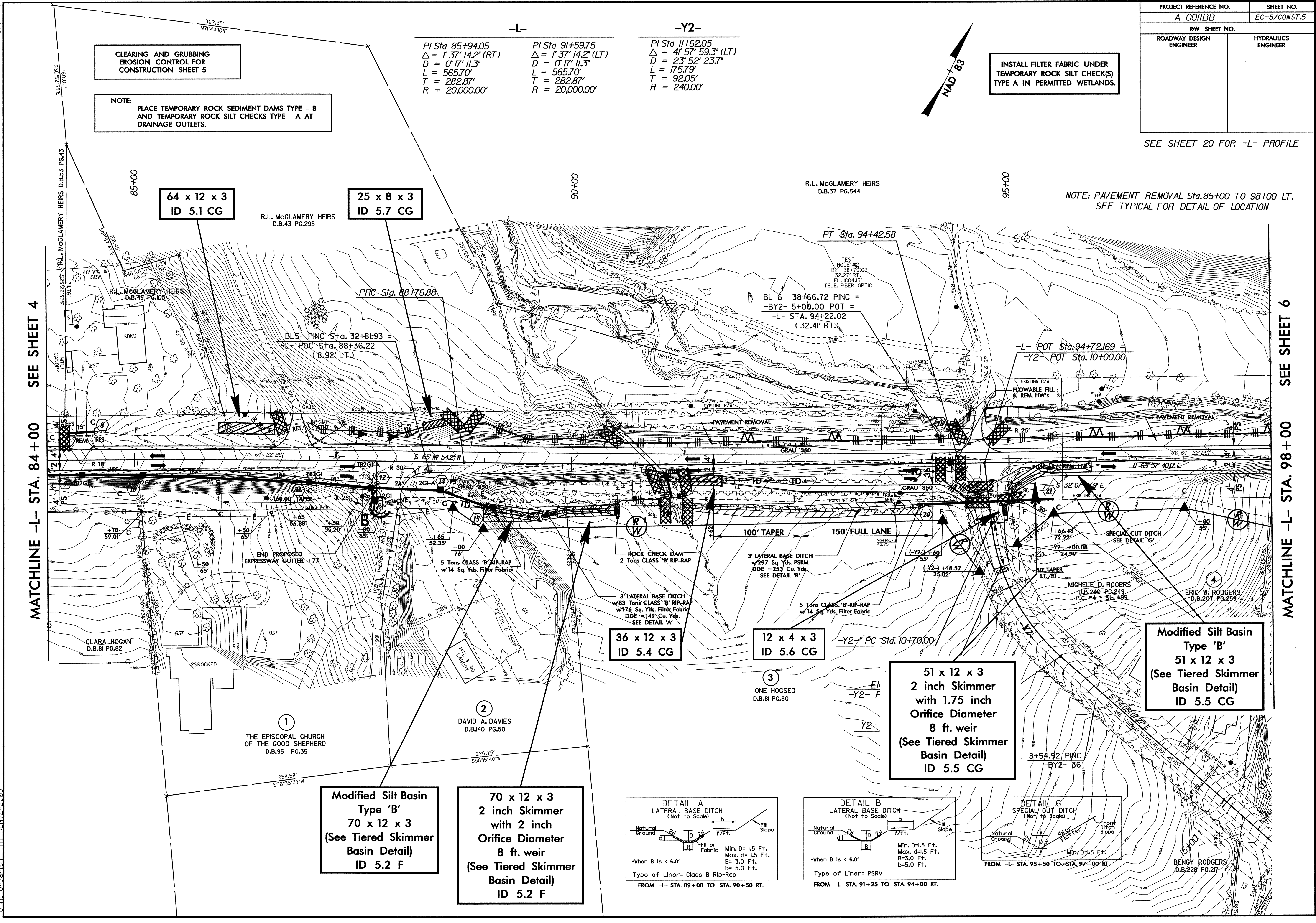
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

MATCHLINE -L- STA. 84+00 SEE SHEET 4

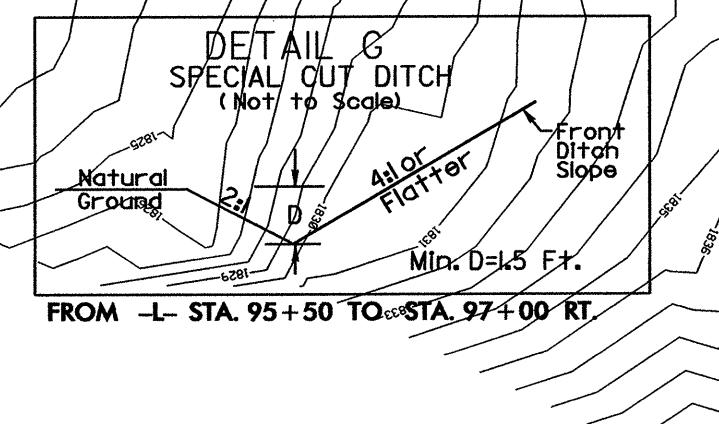
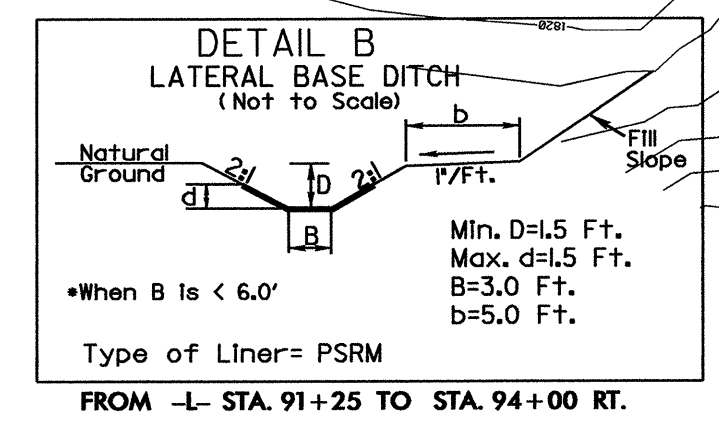
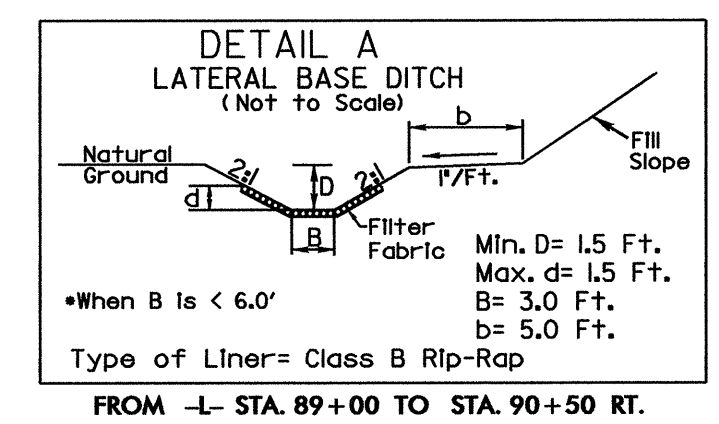
MATCHLINE -L- STA. 98+00 SEE SHEET 6

02-JUL-2008 16:20 q:\tippro\ec\5-a\0011bb\enviro\mental\design\0011bb.ec.psh05.dgn



Modified Silt Basin Type 'B'
 70 x 12 x 3
 (See Tiered Skimmer Basin Detail)
 ID 5.2 F

70 x 12 x 3
 2 inch Skimmer with 2 inch Orifice Diameter
 8 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 5.2 F



Modified Silt Basin Type 'B'
 51 x 12 x 3
 (See Tiered Skimmer Basin Detail)
 ID 5.5 CG

51 x 12 x 3
 2 inch Skimmer with 1.75 inch Orifice Diameter
 8 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 5.5 CG

36 x 12 x 3
 ID 5.4 CG

12 x 4 x 3
 ID 5.6 CG

64 x 12 x 3
 ID 5.1 CG

25 x 8 x 3
 ID 5.7 CG

CLARA HOGAN
 D.B.81 PG.82

1
 THE EPISCOPAL CHURCH OF THE GOOD SHEPHERD
 D.B.95 PG.35

2
 DAVID A. DAVIES
 D.B.140 PG.50

3
 IONE HOSCED
 D.B.81 PG.80

MICHELE D. ROGERS
 D.B.240 PG.249
 P.C. #4 - ST-159

ERIC W. RODGERS
 D.B.207 PG.259

BENGY RODGERS
 D.B.228 PG.217

8/17/99

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

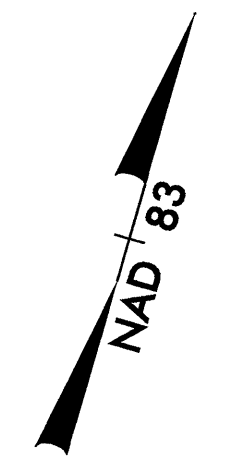
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

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

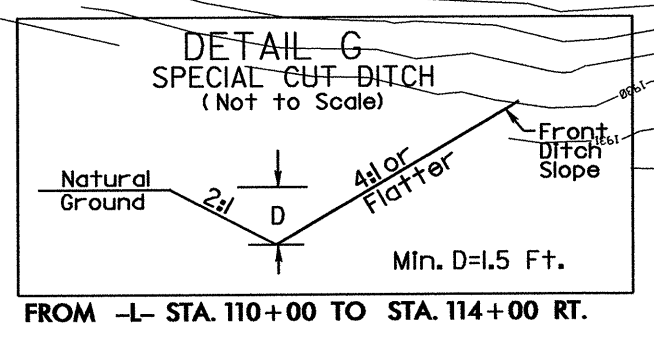
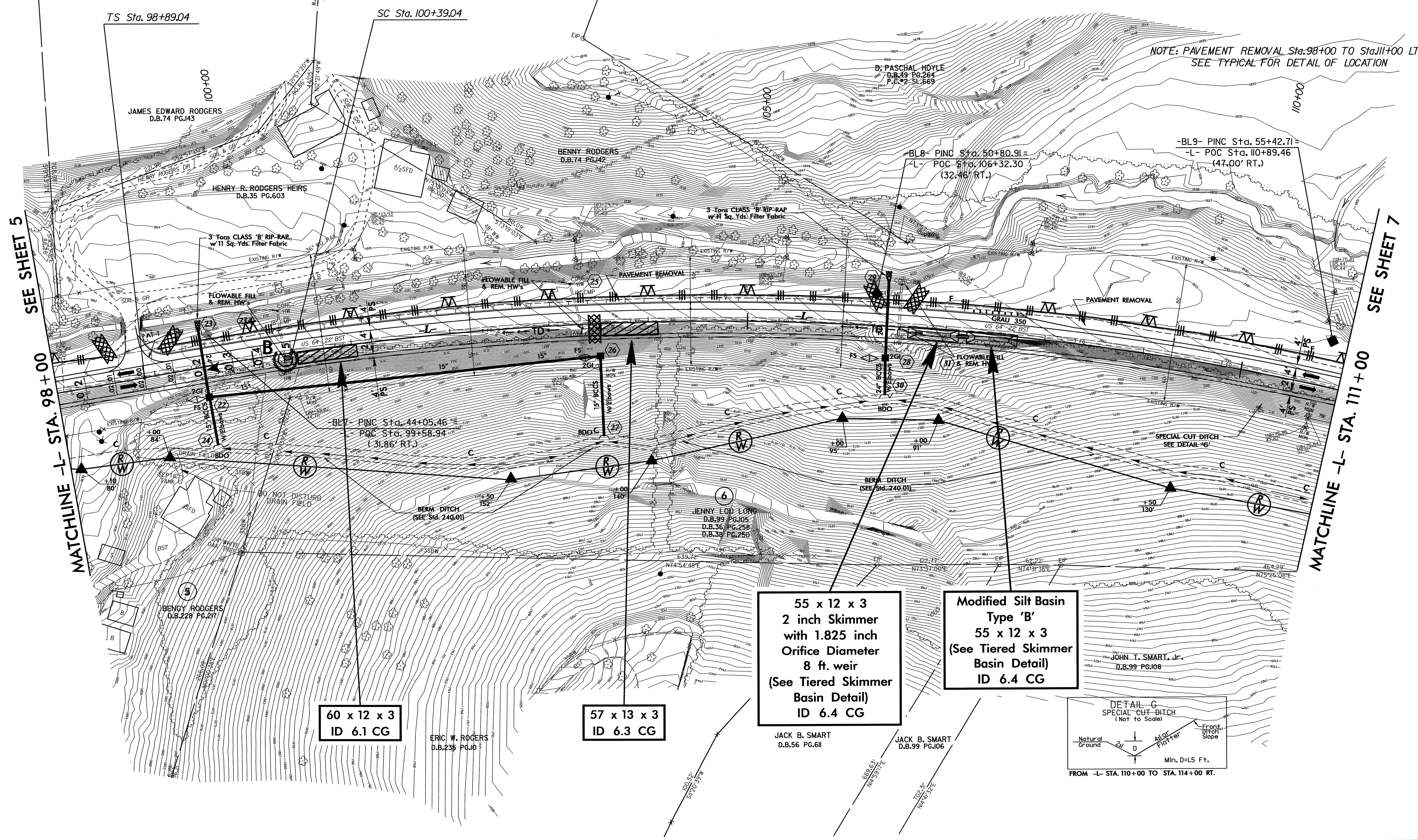
-L-

PIs Sta 99+89.04
 $\Theta_s = 1^\circ 30' 28.0''$
 $L_s = 150.00'$
 $LT = 100.00'$
 $ST = 50.00'$
 $INC = 30.0'$

PI Sta 108+04.39
 $\Delta = 30^\circ 03' 48.8'' (RT)$
 $D = 2^\circ 00' 37.4''$
 $L = 1,495.42'$
 $T = 765.35'$
 $R = 2,850.00'$
 $SE = 0.05$

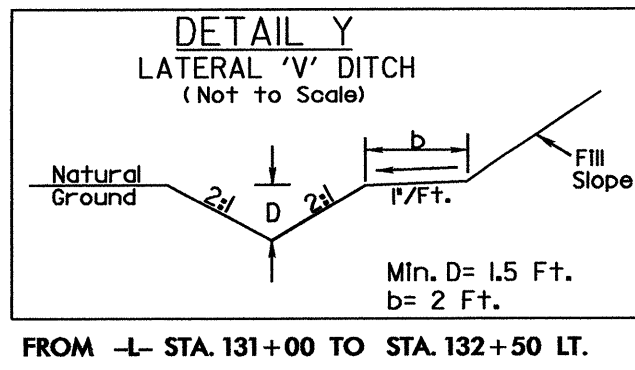
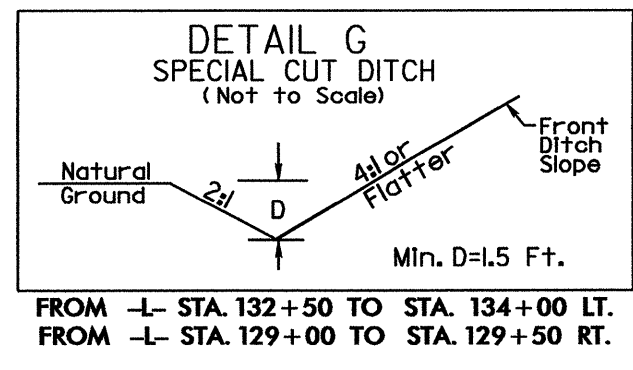
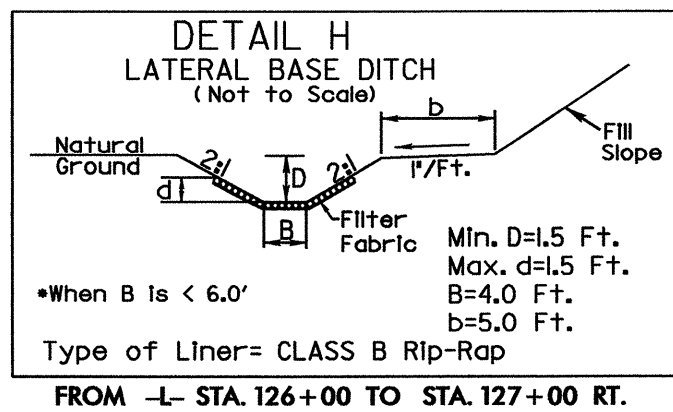
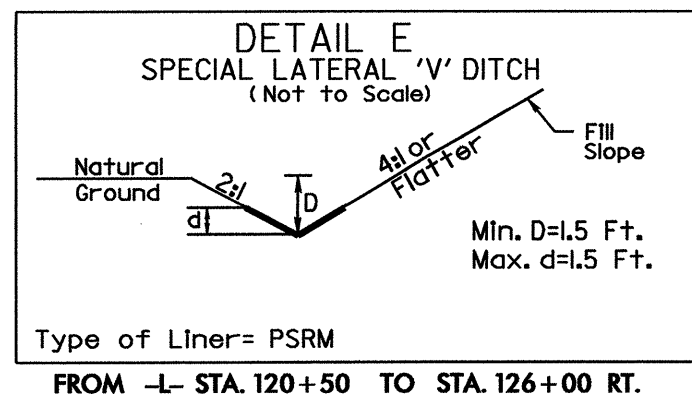


SEE SHEETS 20 & 21 FOR -L- PROFILE



07-JUL-2008 14:35
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 2/2/2008

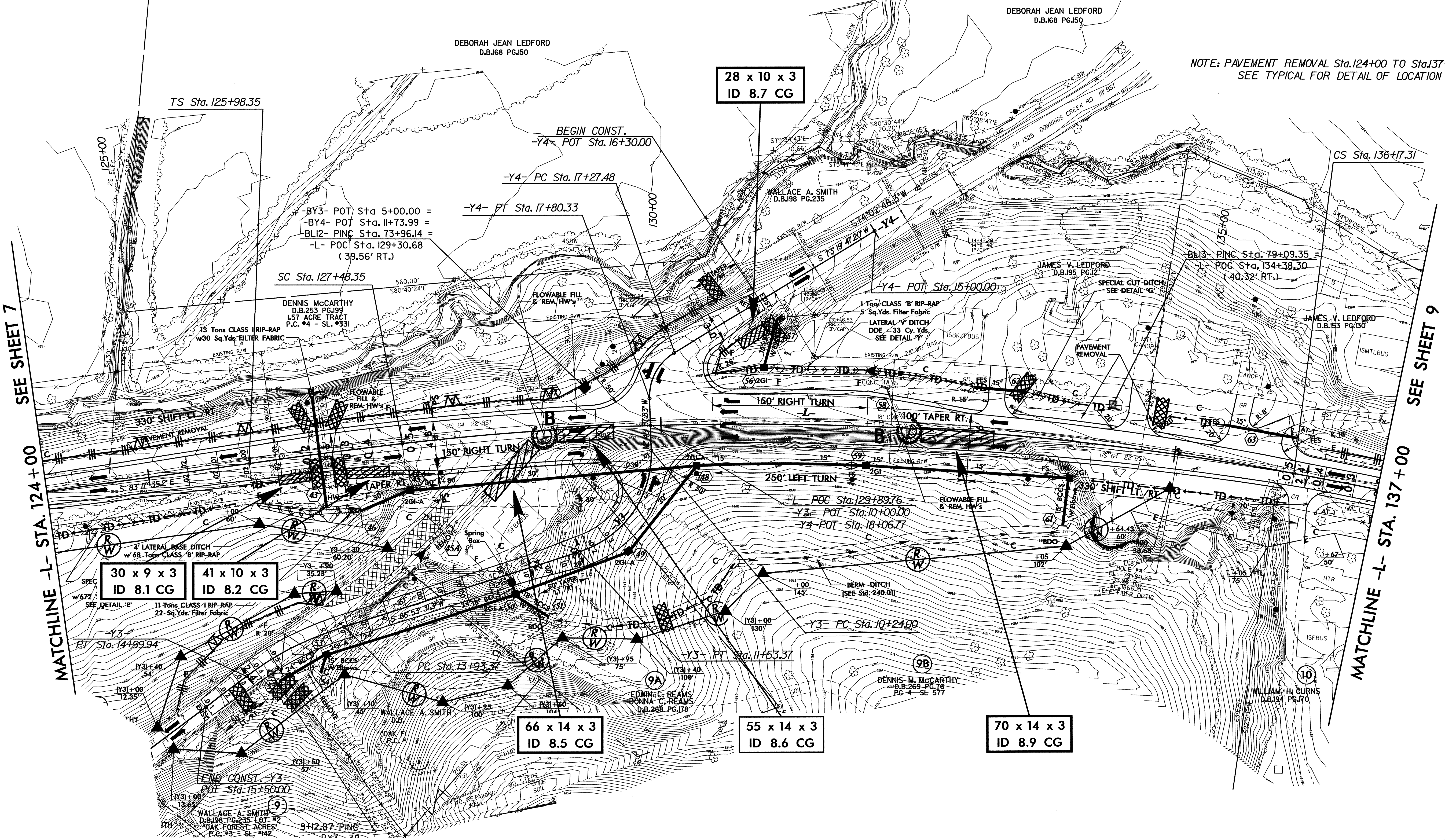
PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-8/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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.

SEE SHEET 22 FOR -L- PROFILE
SEE SHEET 28 FOR -Y3- PROFILE



NOTE: PAVEMENT REMOVAL Sta. 124+00 TO Sta. 137+00 LT.
SEE TYPICAL FOR DETAIL OF LOCATION

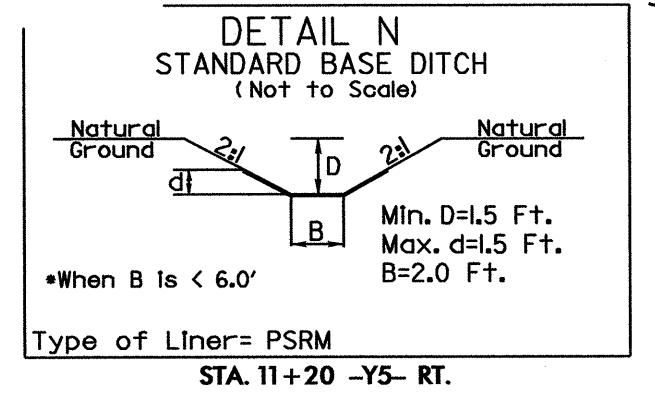
8/17/09

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Lennifer@penn

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-9/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.



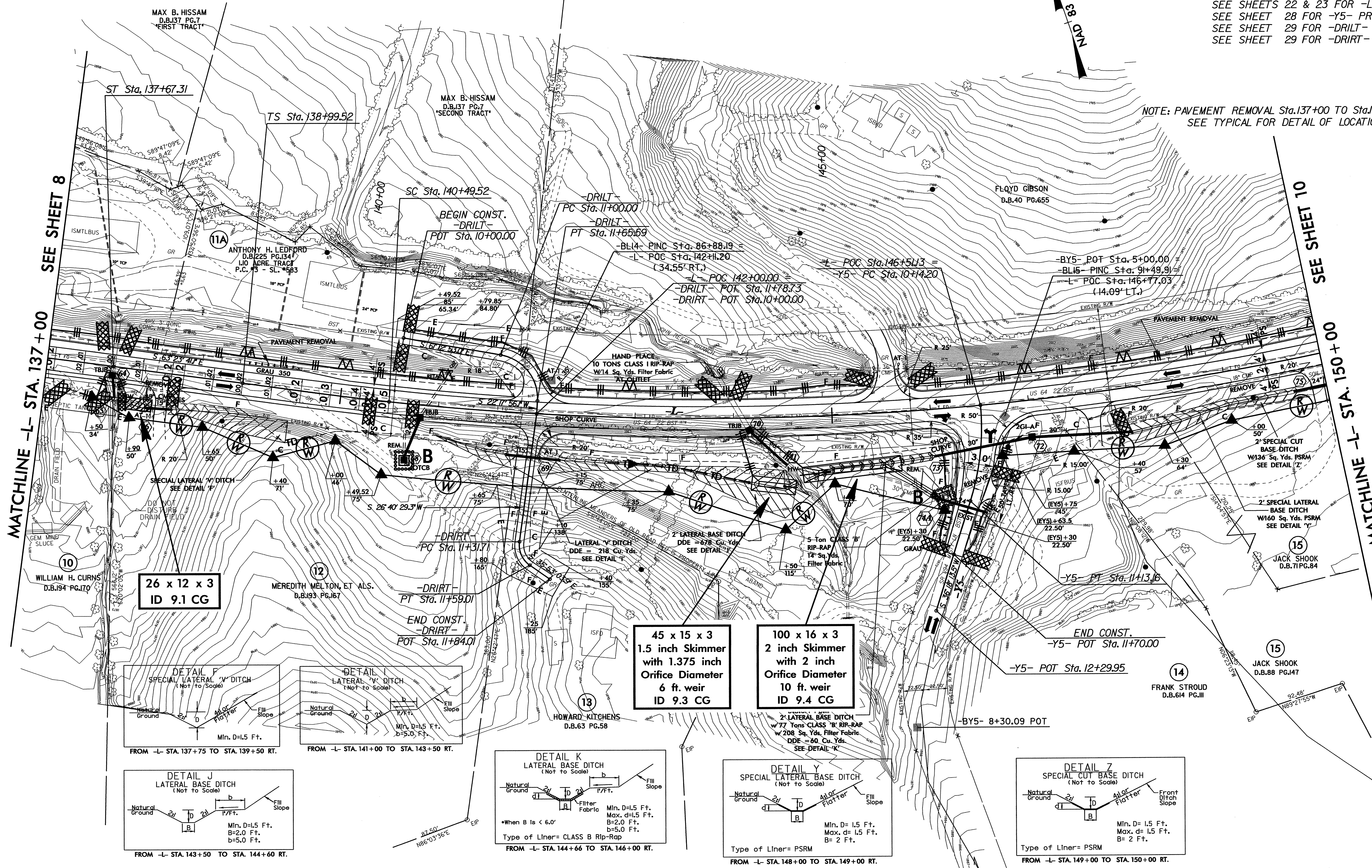
SEE SHEETS 22 & 23 FOR -L- PROFILE
SEE SHEET 28 FOR -Y5- PROFILE
SEE SHEET 29 FOR -DRILT- PROFILE
SEE SHEET 29 FOR -DRIRT- PROFILE

NOTE: PAVEMENT REMOVAL Sta.137+00 TO Sta.150+00 LT.
SEE TYPICAL FOR DETAIL OF LOCATION

MATCHLINE -L- STA. 137+00
SEE SHEET 8

MATCHLINE -L- STA. 150+00
SEE SHEET 10

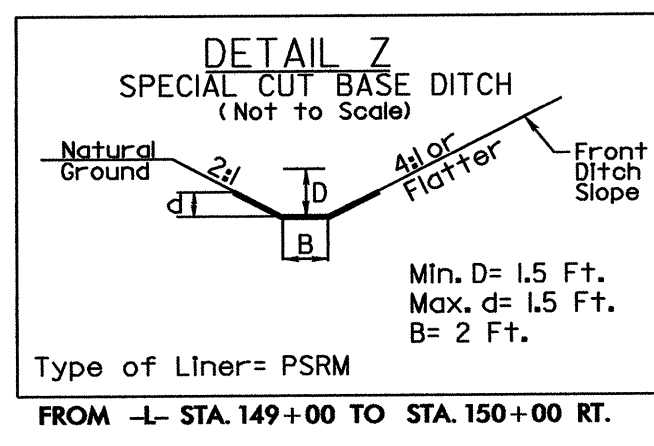
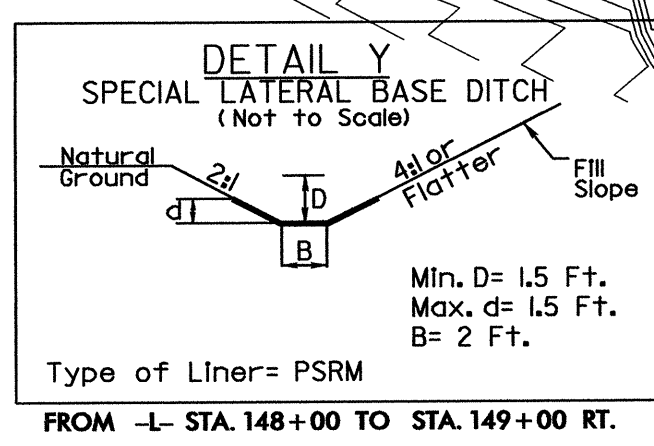
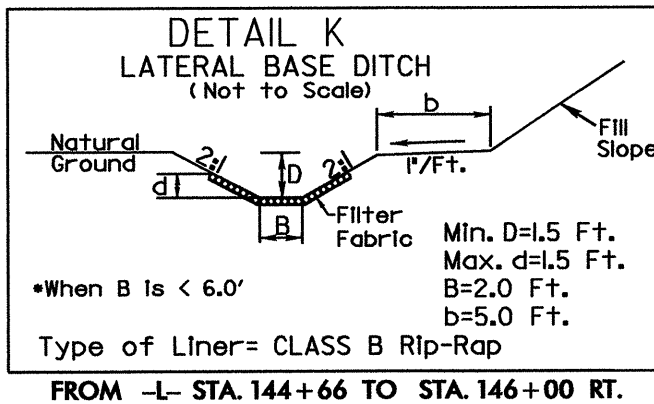
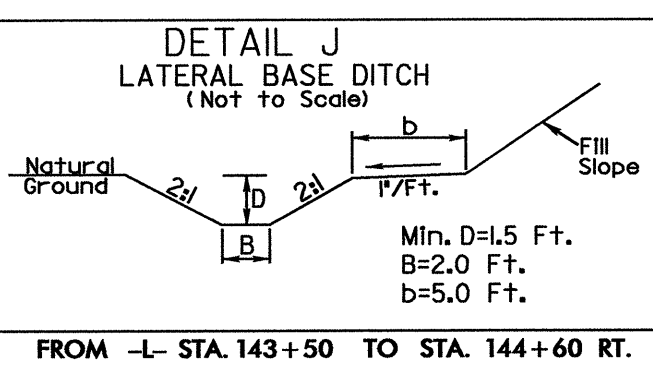
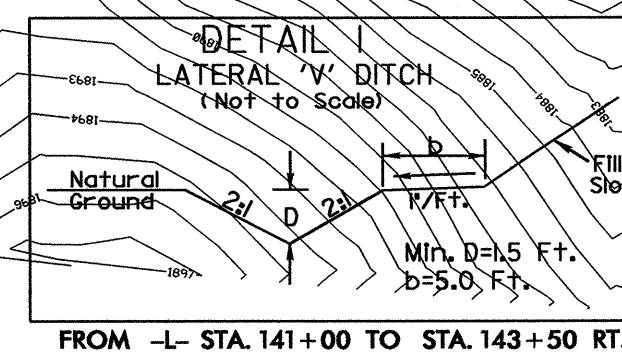
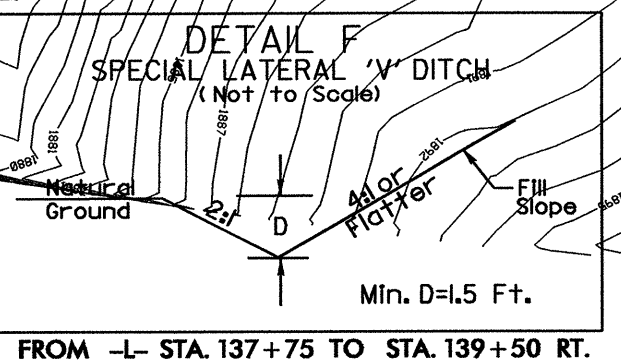
8/17/99
02-Jul-2008 16:52
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10/24/2003



26 x 12 x 3
ID 9.1 CG

45 x 15 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
ID 9.3 CG

100 x 16 x 3
2 inch Skimmer
with 2 inch
Orifice Diameter
10 ft. weir
ID 9.4 CG



8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

NOTE:

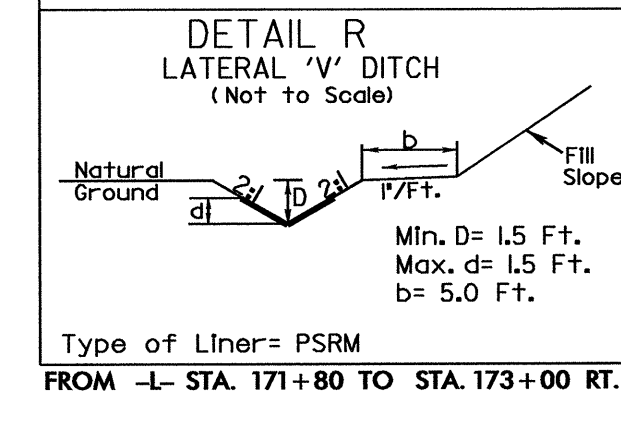
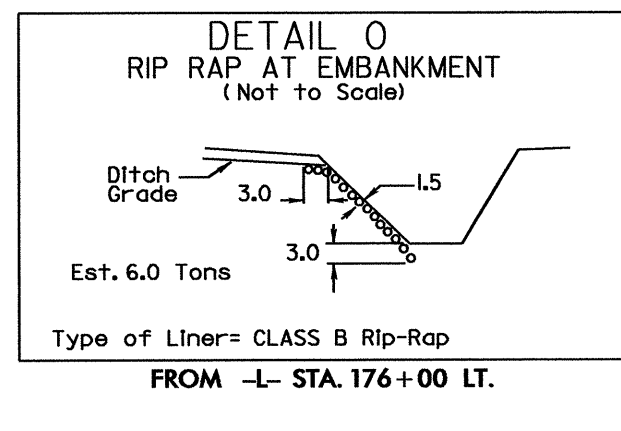
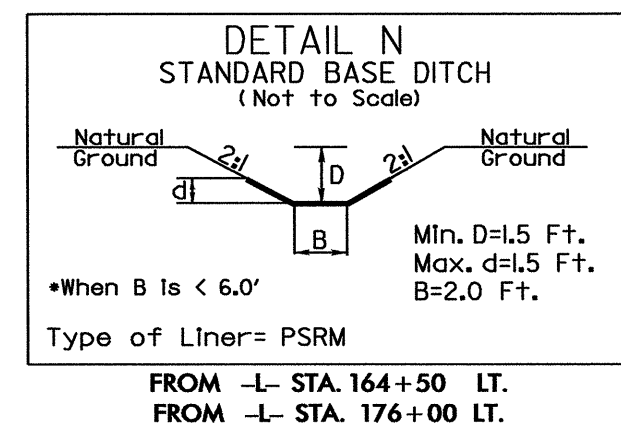
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-11/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



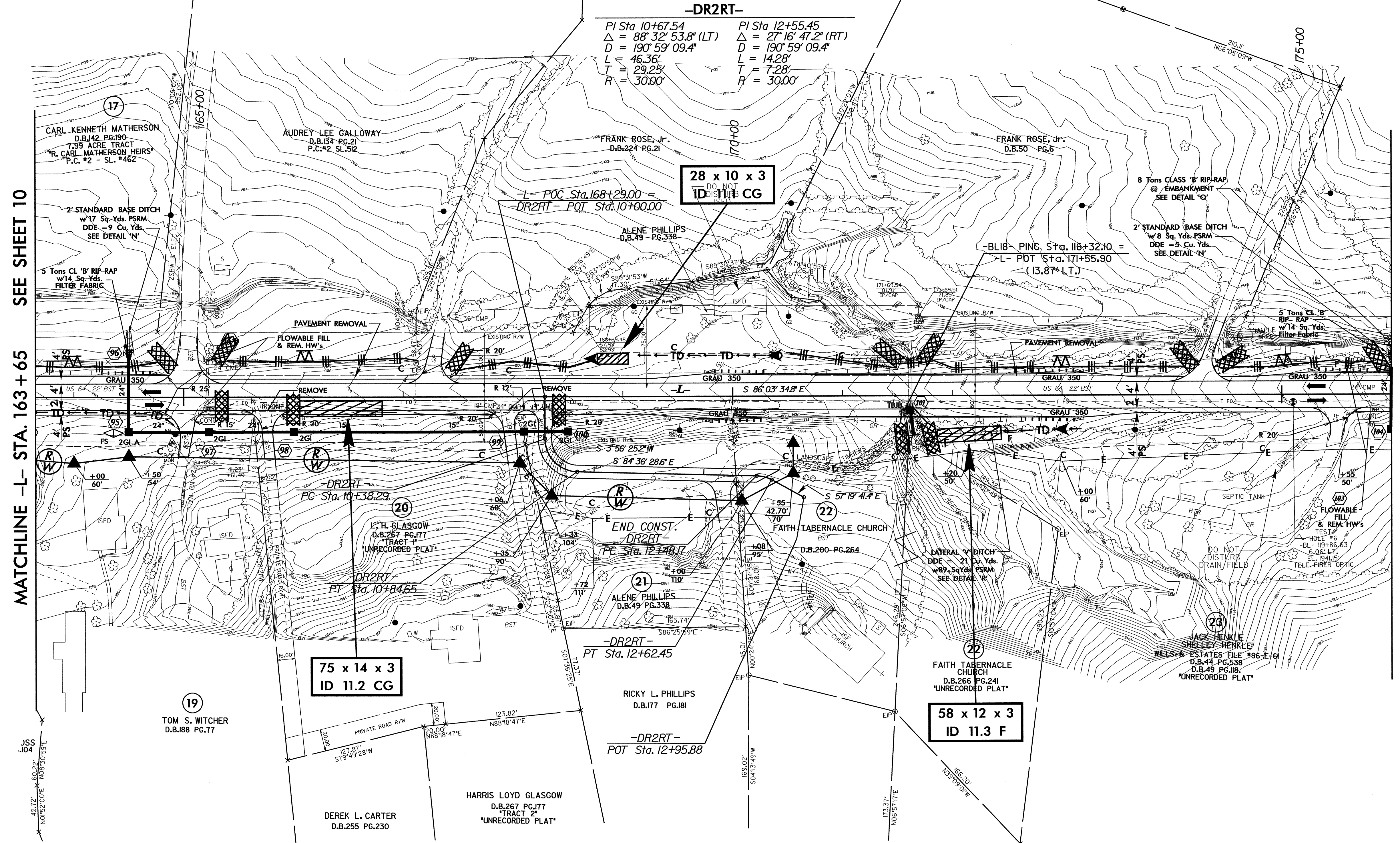
SEE SHEETS 23 & 24 FOR -L- PROFILE
SEE SHEET 29 FOR -DR2RT- PROFILE

NOTE: PAVEMENT REMOVAL Sta.150+00 TO Sta.163+00 LT.
SEE TYPICAL FOR DETAIL OF LOCATION



-DR2RT-

PI Sta 10+67.54 Δ = 88° 32' 53.8" (LT) D = 190° 59' 09.4" L = 46.36' T = 29.25' R = 30.00'	PI Sta 12+55.45 Δ = 27° 16' 47.2" (RT) D = 190° 59' 09.4" L = 14.28' T = 7.28' R = 30.00'
---	--

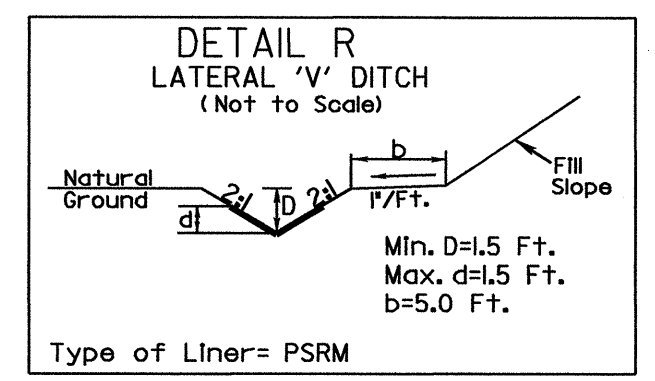
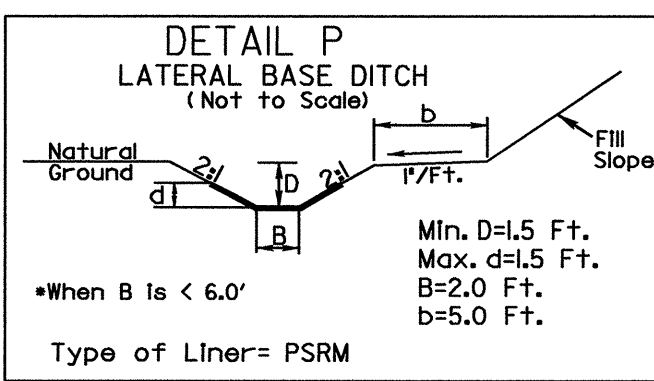


MATCHLINE -L- STA. 163 + 65 SEE SHEET 10

MATCHLINE -L- STA. 176 + 00 SEE SHEET 12

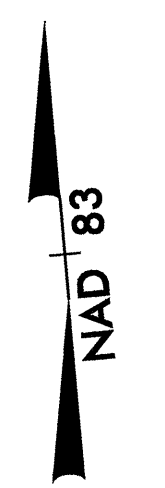
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11/11/2008 10:24:03
tennifor@parash

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-13/CONST.13
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

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

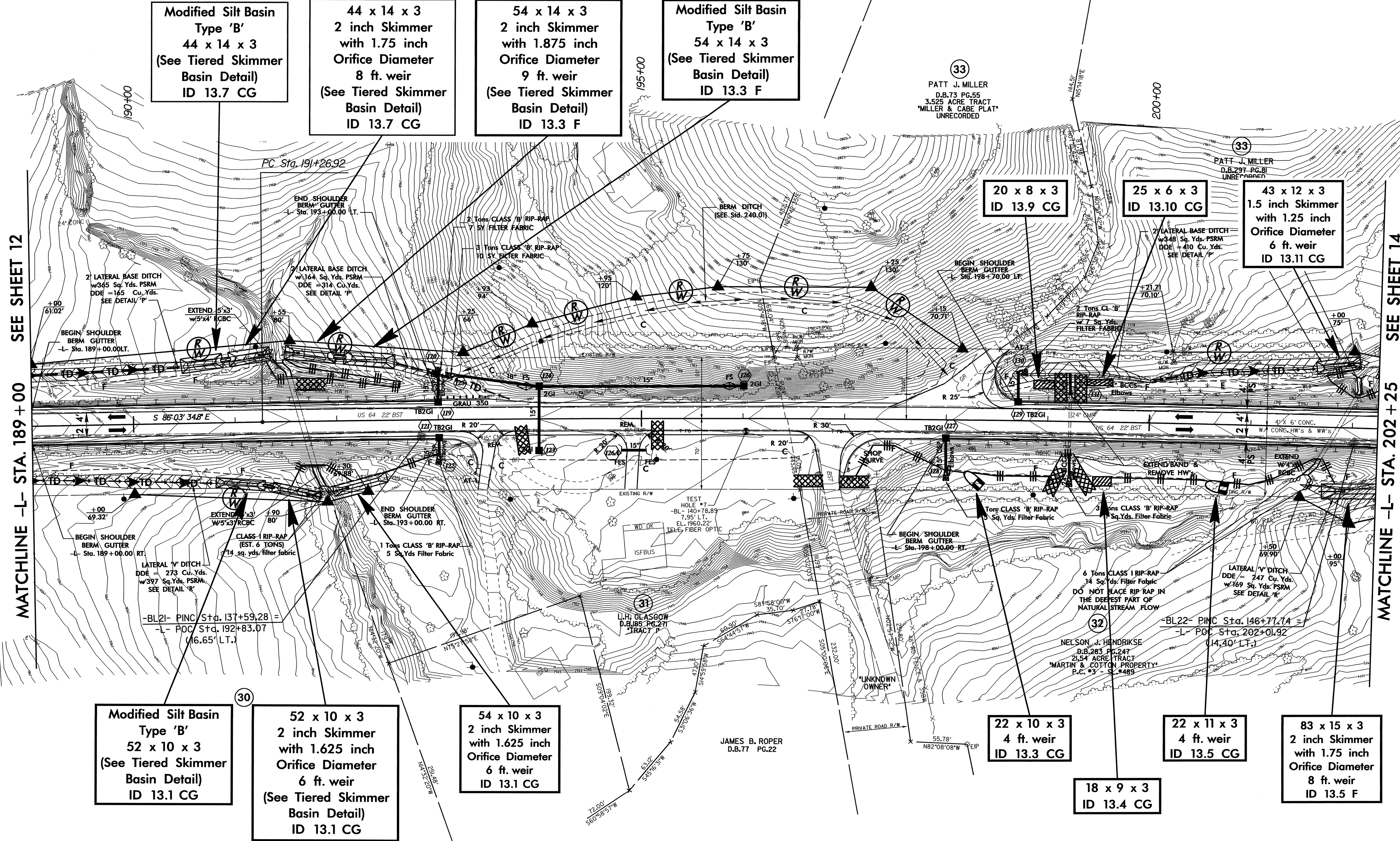


-L-
PI Sta 218+00.64
Δ = 14° 12' 37.6" (RT)
D = 0° 16' 01.6"
L = 5,320.0'
T = 2,673.73'
R = 21,450.00'

FROM -L- STA. 187+50 TO STA. 191+27 LT.
FROM -L- STA. 191+41 TO STA. 193+10 LT.
FROM -L- STA. 198+50 TO STA. 200+00 LT.
FROM -L- STA. 200+00 TO STA. 202+10 LT.

FROM -L- STA. 186+50 TO STA. 191+83 RT.
FROM -L- STA. 201+73 TO STA. 204+00 RT.

SEE SHEETS 24 & 25 FOR -L- PROFILE



MATCHLINE -L- STA. 189+00 SEE SHEET 12

MATCHLINE -L- STA. 202+25 SEE SHEET 14

Modified Silt Basin
Type 'B'
52 x 10 x 3
(See Tiered Skimmer
Basin Detail)
ID 13.1 CG

52 x 10 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.1 CG

54 x 10 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
6 ft. weir
ID 13.1 CG

22 x 10 x 3
4 ft. weir
ID 13.3 CG

18 x 9 x 3
ID 13.4 CG

22 x 11 x 3
4 ft. weir
ID 13.5 CG

83 x 15 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
8 ft. weir
ID 13.5 F

Modified Silt Basin
Type 'B'
44 x 14 x 3
(See Tiered Skimmer
Basin Detail)
ID 13.7 CG

44 x 14 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
8 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.7 CG

54 x 14 x 3
2 inch Skimmer
with 1.875 inch
Orifice Diameter
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.3 F

Modified Silt Basin
Type 'B'
54 x 14 x 3
(See Tiered Skimmer
Basin Detail)
ID 13.3 F

20 x 8 x 3
ID 13.9 CG

25 x 6 x 3
ID 13.10 CG

43 x 12 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 13.11 CG

03-JUL-2008 14:16 g:\tpprojects-a\0011bb\enviromental\design\0011bb.ec_psh13.dgn

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-14/CONST J3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

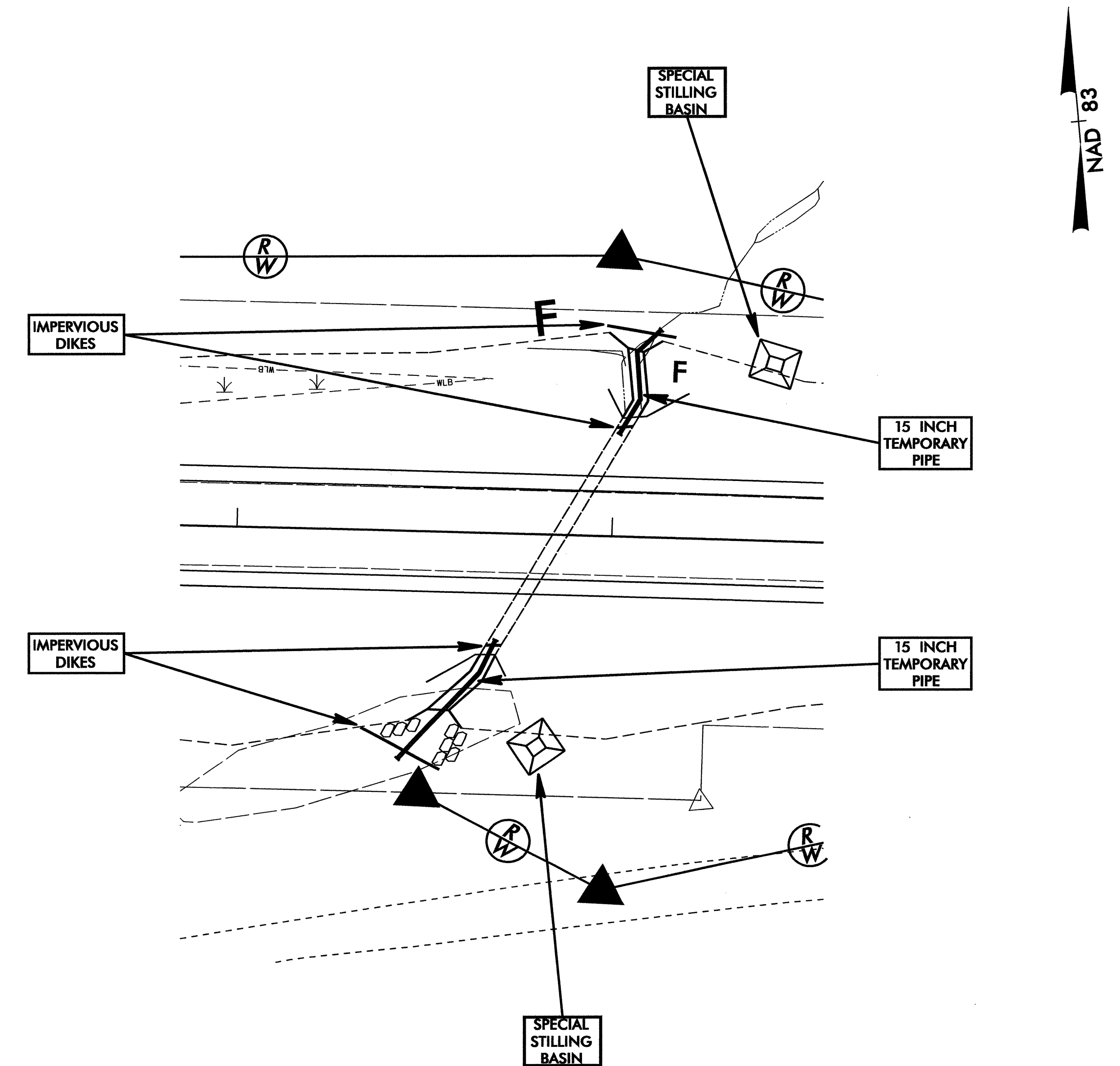
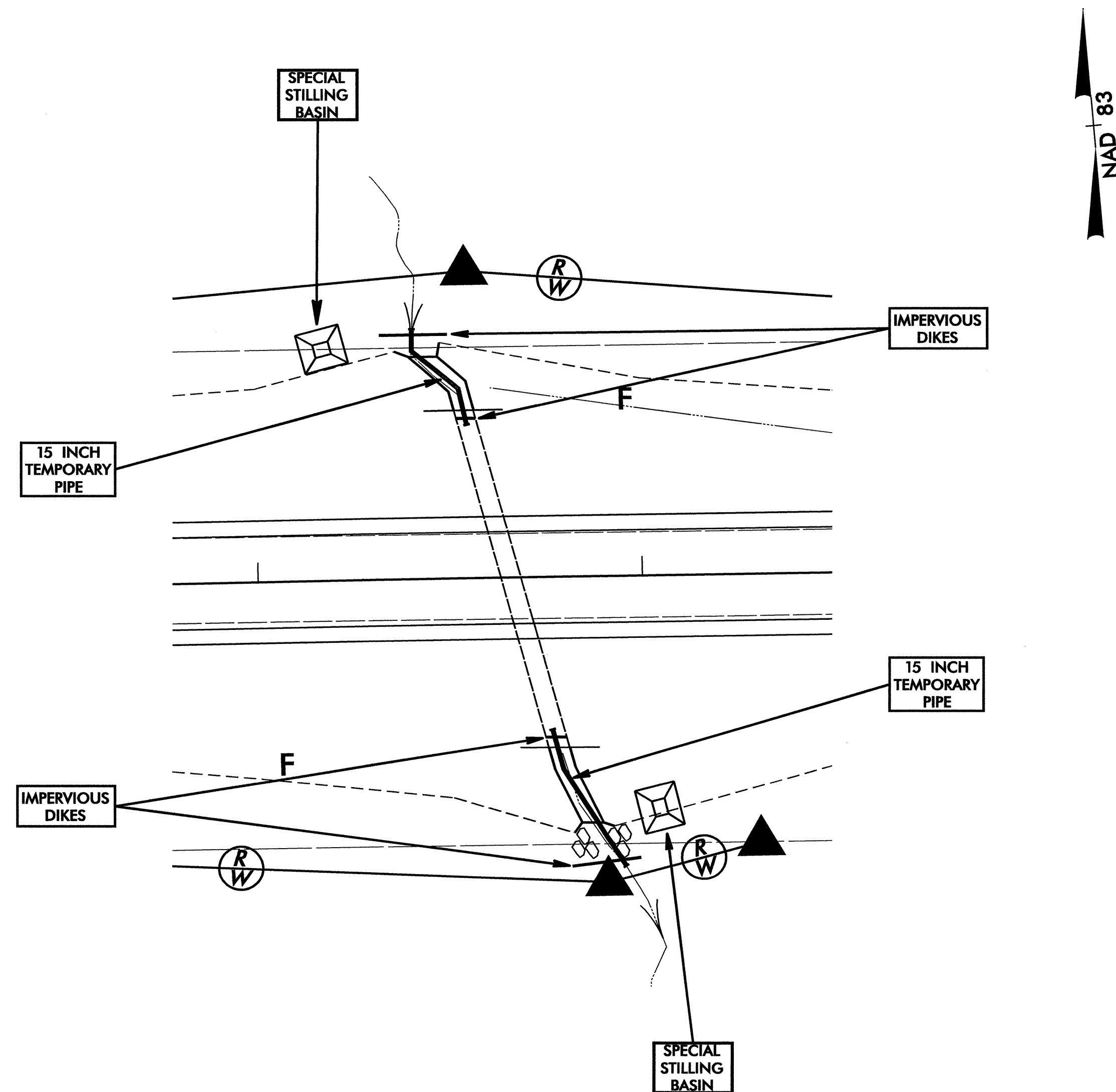
CULVERT CONSTRUCTION SEQUENCES

STA. 191 + 65.92 -L-

STA. 201 + 86 -L-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 15 INCH TEMPORARY PIPES, DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT EXTENSIONS.
4. CONSTRUCT ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES, TEMPORARY PIPES, AND ANY REMAINING SPECIAL STILLING BASIN(S).
6. COMPLETE ROADWAY.

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 15 INCH TEMPORARY PIPES, DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT EXTENSIONS.
4. CONSTRUCT ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES, TEMPORARY PIPES, AND ANY REMAINING SPECIAL STILLING BASIN(S).
6. COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-15/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 25 FOR -L- PROFILE

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

-L-
PI Sta 218+00.64
 $\Delta = 14' 12" 37.6" (RT)$
 $D = 0' 16" 01.6"$
 $L = 5,320.01'$
 $T = 2,673.73'$
 $R = 21,450.00'$

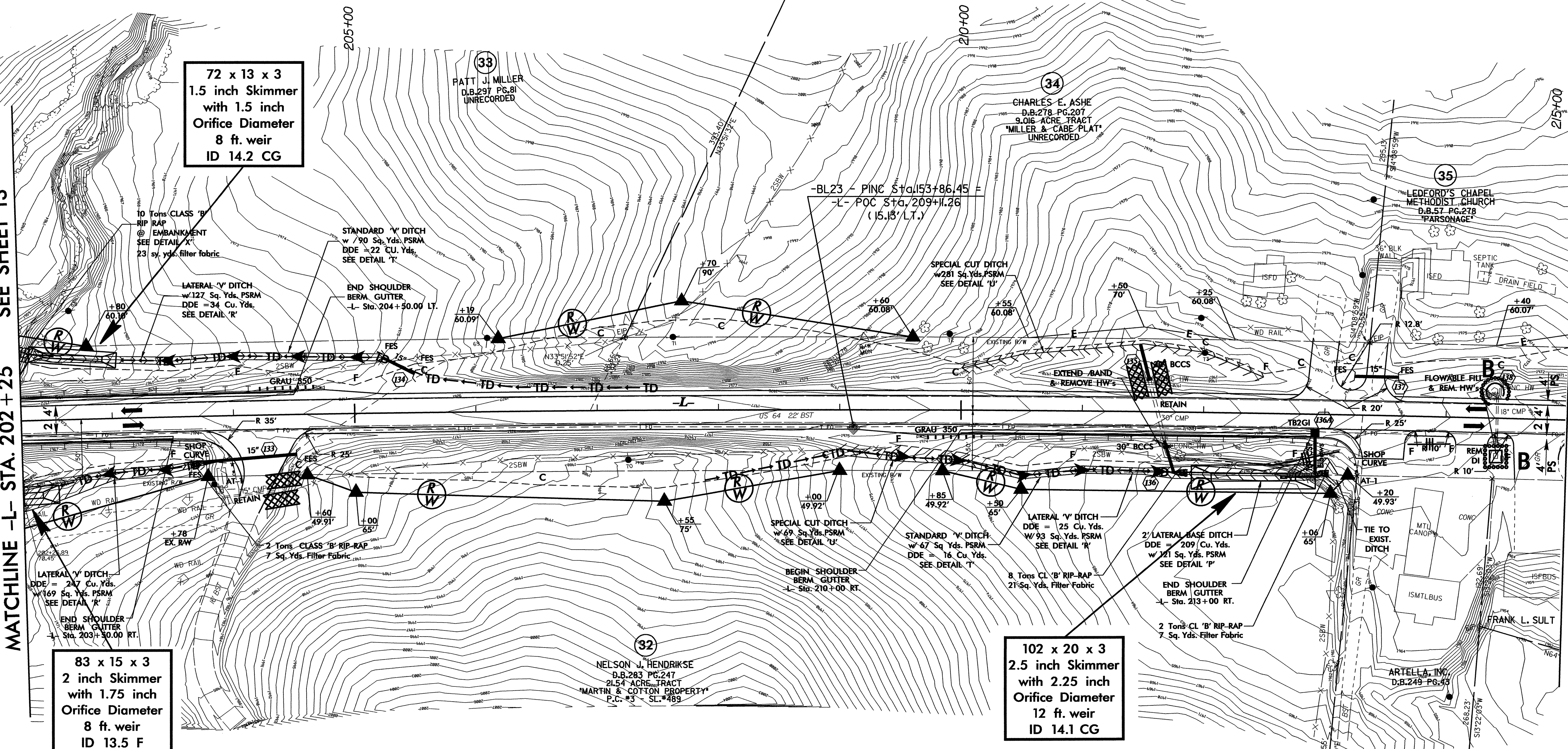


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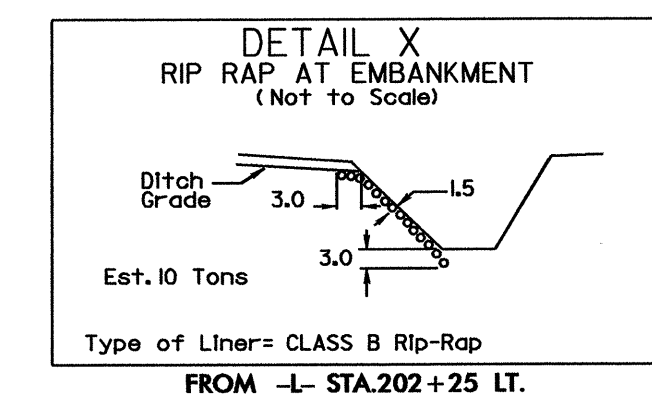
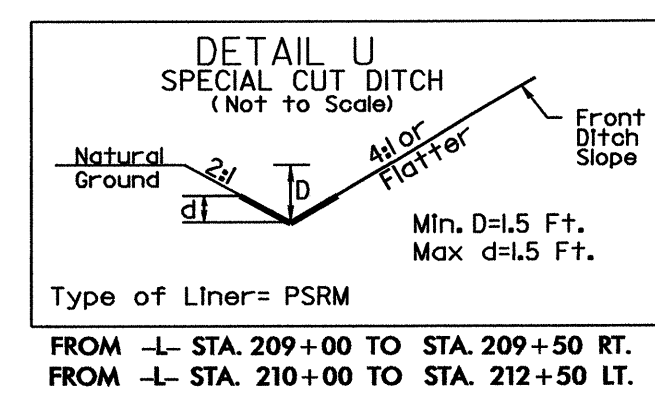
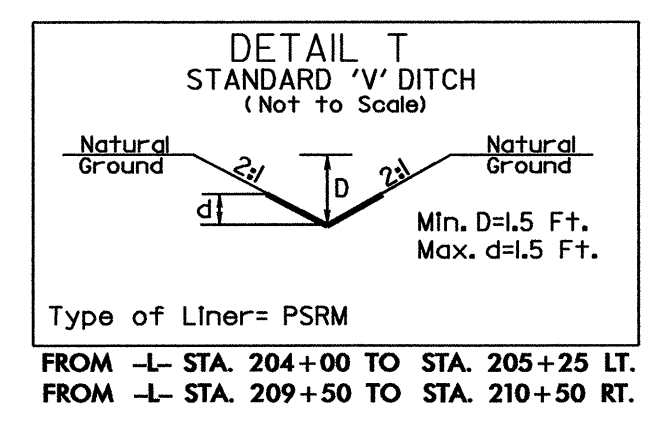
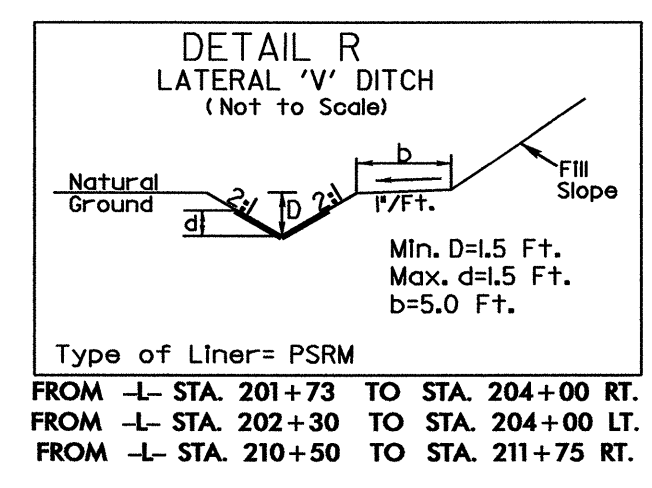
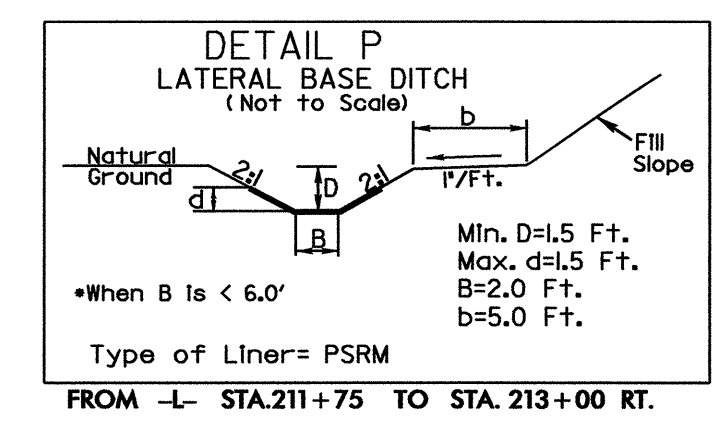
MATCHLINE -L- STA. 202 + 25 SEE SHEET 13

MATCHLINE -L- STA. 215 + 00 SEE SHEET 15



83 x 15 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
8 ft. weir
ID 13.5 F

102 x 20 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
12 ft. weir
ID 14.1 CG



PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-16/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 15

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

Modified Silt Basin Type 'B'
66 x 12 x 3
(See Tiered Skimmer Basin Detail)
ID 15.3 CG

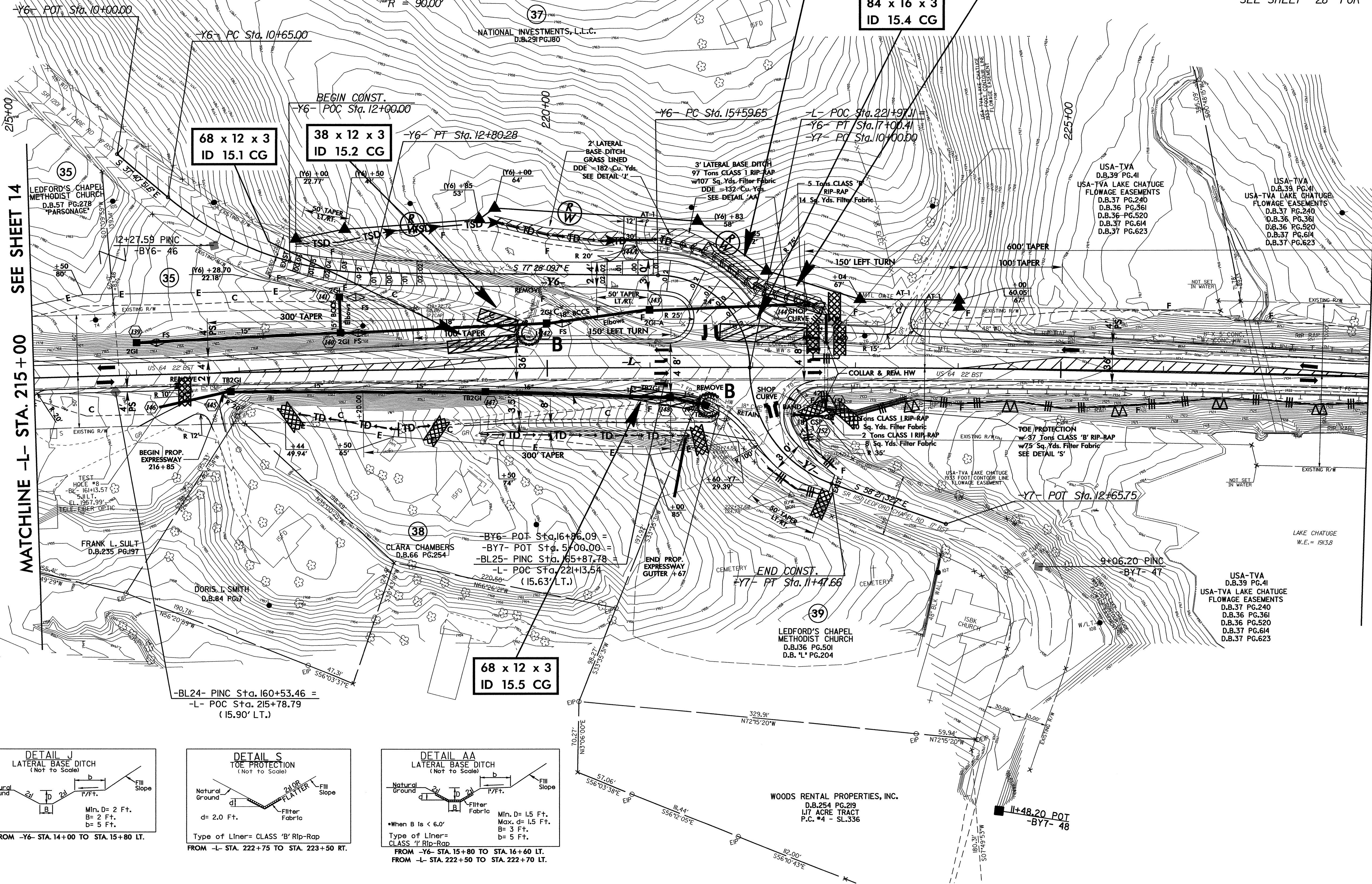
66 x 12 x 3
2 inch Skimmer with 1.875 inch Orifice Diameter
4 ft. weir
(See Tiered Skimmer Basin Detail)
ID 15.3 CG

84 x 16 x 3
ID 15.4 CG

68 x 12 x 3
ID 15.1 CG

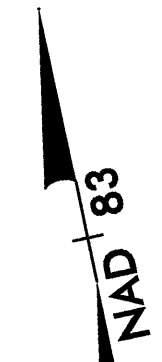
38 x 12 x 3
ID 15.2 CG

68 x 12 x 3
ID 15.5 CG

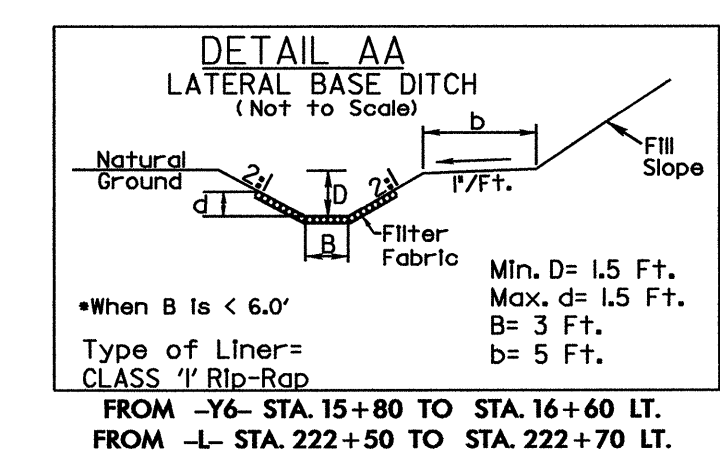
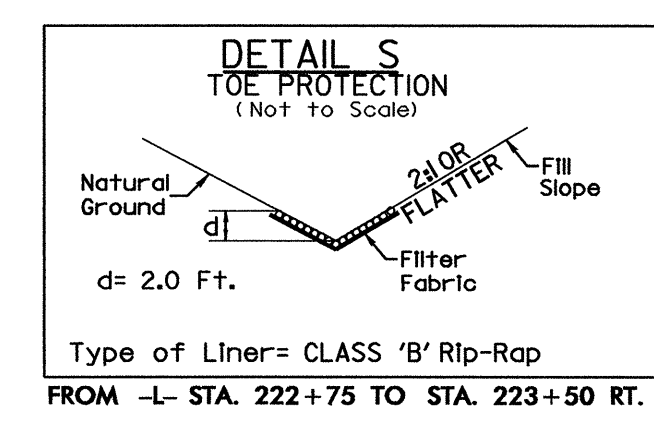
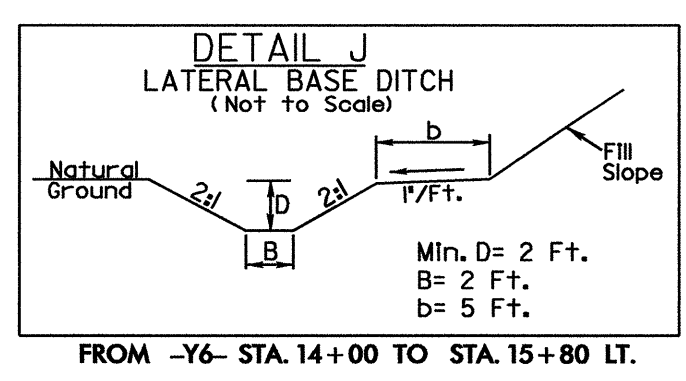


MATCHLINE -L- STA. 215+00 SEE SHEET 14

MATCHLINE -L- STA. 228+00 SEE SHEET 16



SEE SHEETS 25 & 26 FOR -L- PROFILE
SEE SHEET 28 FOR -Y6- PROFILE



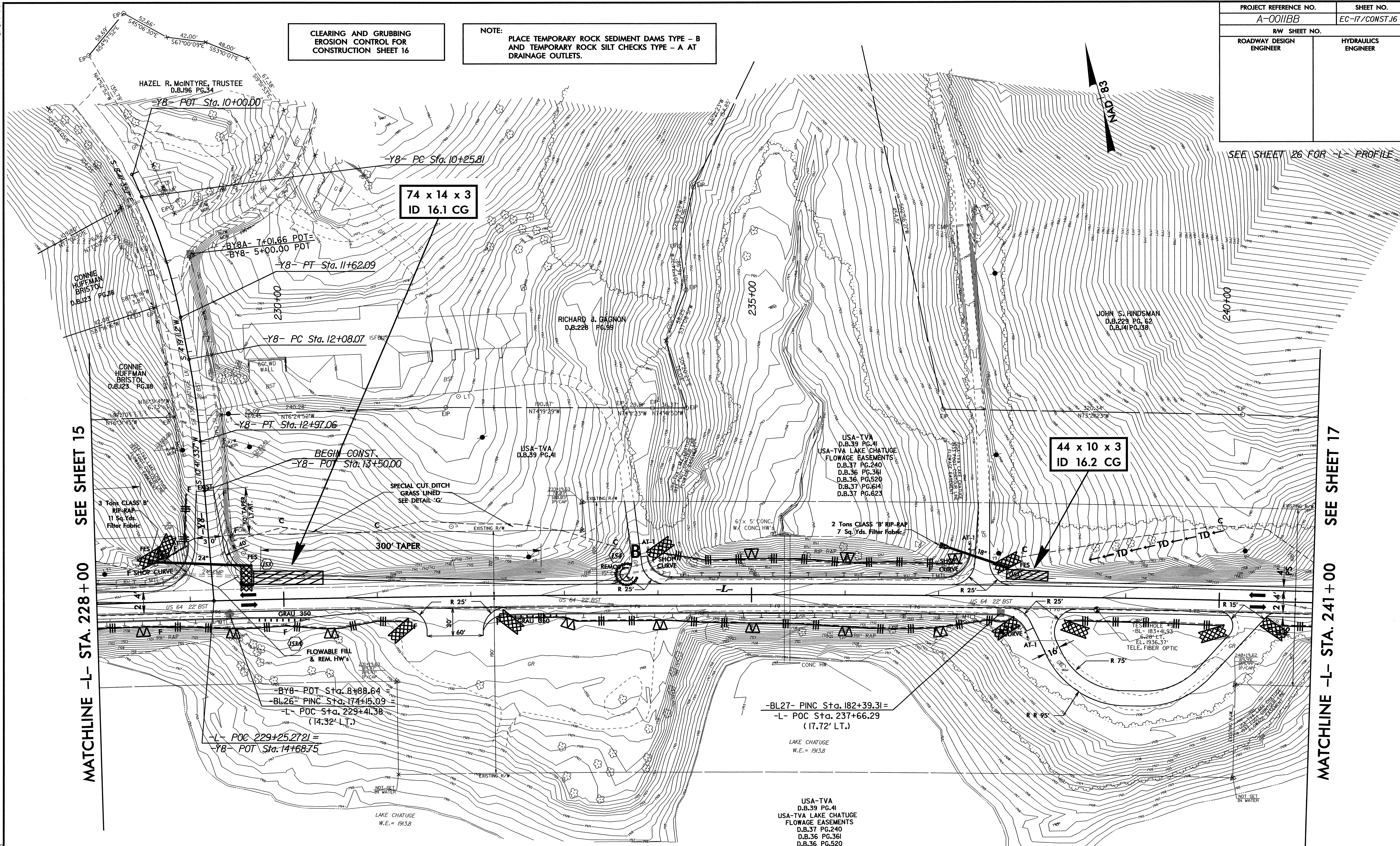
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LENNFERBERG AT REV 2/2008

8/17/99

PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-17/CONST 16
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

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

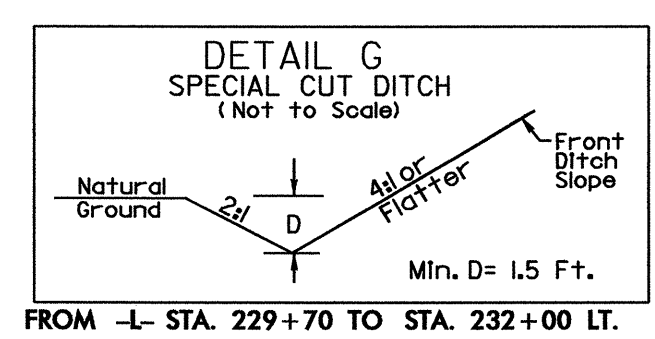


MATCHLINE -L- STA. 228+00 SEE SHEET 15

MATCHLINE -L- STA. 241+00 SEE SHEET 17

74 x 14 x 3
ID 16.1 CG

44 x 10 x 3
ID 16.2 CG



-L-	-Y8-
PI Sta 218+00.64	PI Sta 10+94.24
$\Delta = 14' 12' 37.6''$ (RT)	$\Delta = 13' 00' 46.9''$ (RT)
D = 0' 16' 01.6"	D = 9' 32' 57.5"
L = 5,320.01'	L = 136.27'
T = 2,673.73'	T = 68.43'
R = 21,450.00'	R = 600.00'
	PI Sta 12+52.61
	$\Delta = 6' 22' 22.5''$ (RT)
	D = 7' 09' 43.1"
	L = 88.98'
	T = 44.54'
	R = 800.00'

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jenifer@pcish.com

PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-18/CONST.17
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

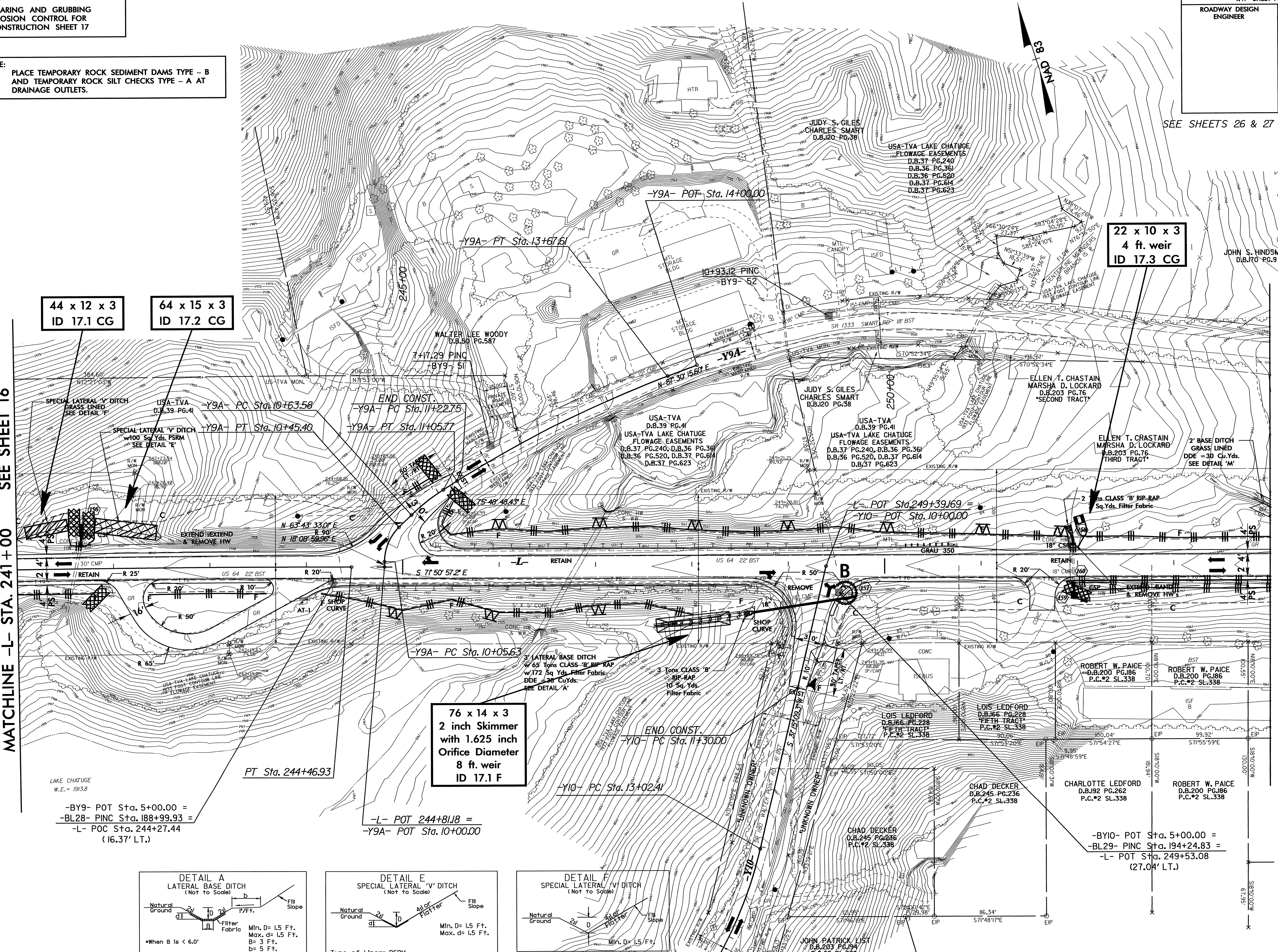
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

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

SEE SHEETS 26 & 27 FOR -L- PROFILE

MATCHLINE -L- STA. 241+00 SEE SHEET 16

MATCHLINE -L- STA. 254+00 SEE SHEET 18

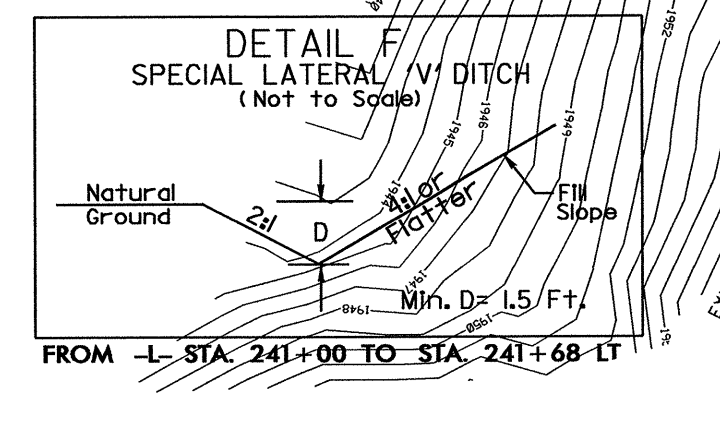
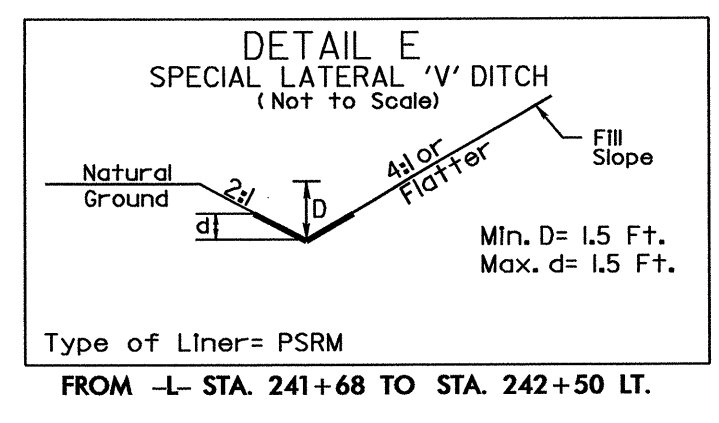
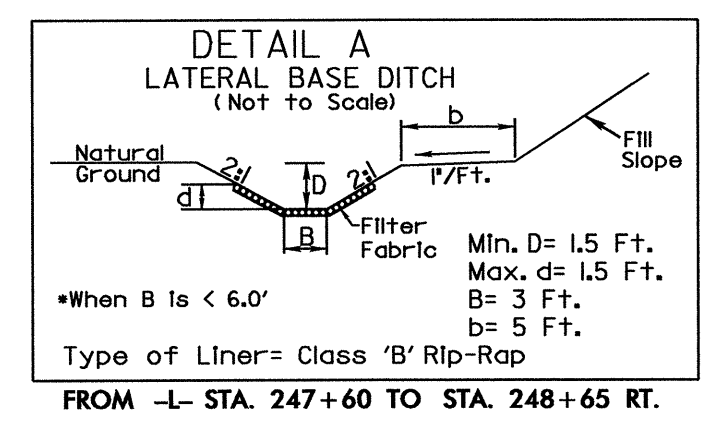


44 x 12 x 3
ID 17.1 CG

64 x 15 x 3
ID 17.2 CG

22 x 10 x 3
4 ft. weir
ID 17.3 CG

76 x 14 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
8 ft. weir
ID 17.1 F



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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18

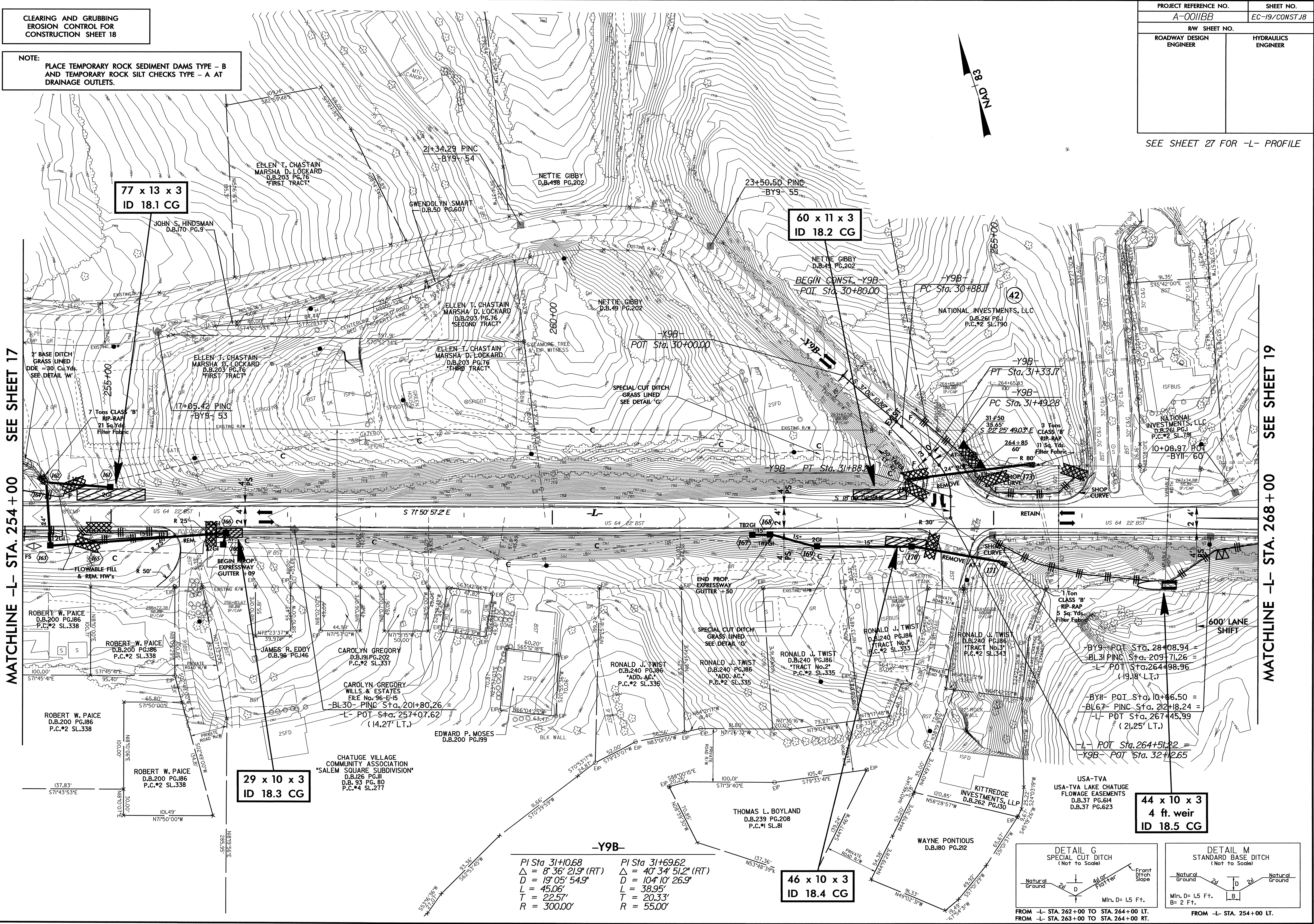
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO. A-0011BB		SHEET NO. EC-19/CONST.18	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

SEE SHEET 27 FOR -L- PROFILE

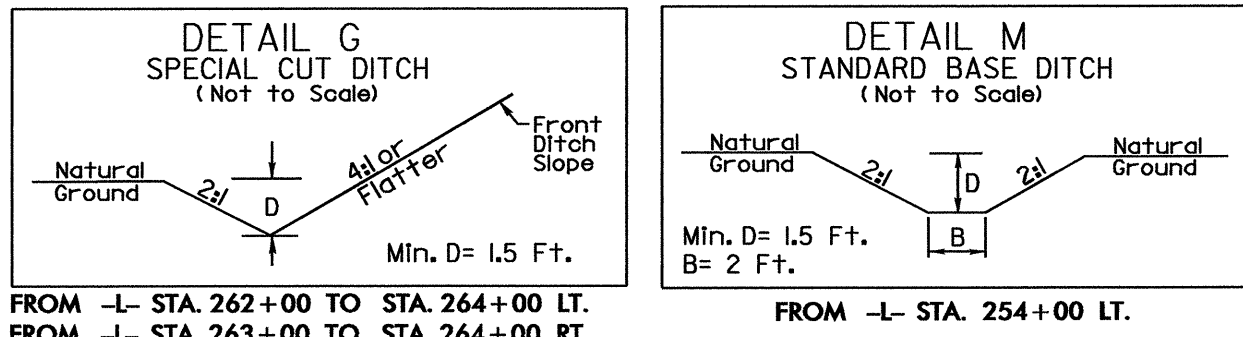
MATCHLINE -L- STA. 254+00 SEE SHEET 17

MATCHLINE -L- STA. 268+00 SEE SHEET 19



-Y9B-

$PI\ Sta\ 31+0.68$ $\Delta = 8^\circ 36' 21.9" (RT)$ $D = 19^\circ 05' 54.9"$ $L = 45.06'$ $T = 22.57'$ $R = 300.00'$	$PI\ Sta\ 31+69.62$ $\Delta = 40^\circ 34' 51.2" (RT)$ $D = 104^\circ 10' 26.9"$ $L = 38.95'$ $T = 20.33'$ $R = 55.00'$
--	--



FROM -L- STA. 262+00 TO STA. 264+00 LT.
FROM -L- STA. 263+00 TO STA. 264+00 RT.

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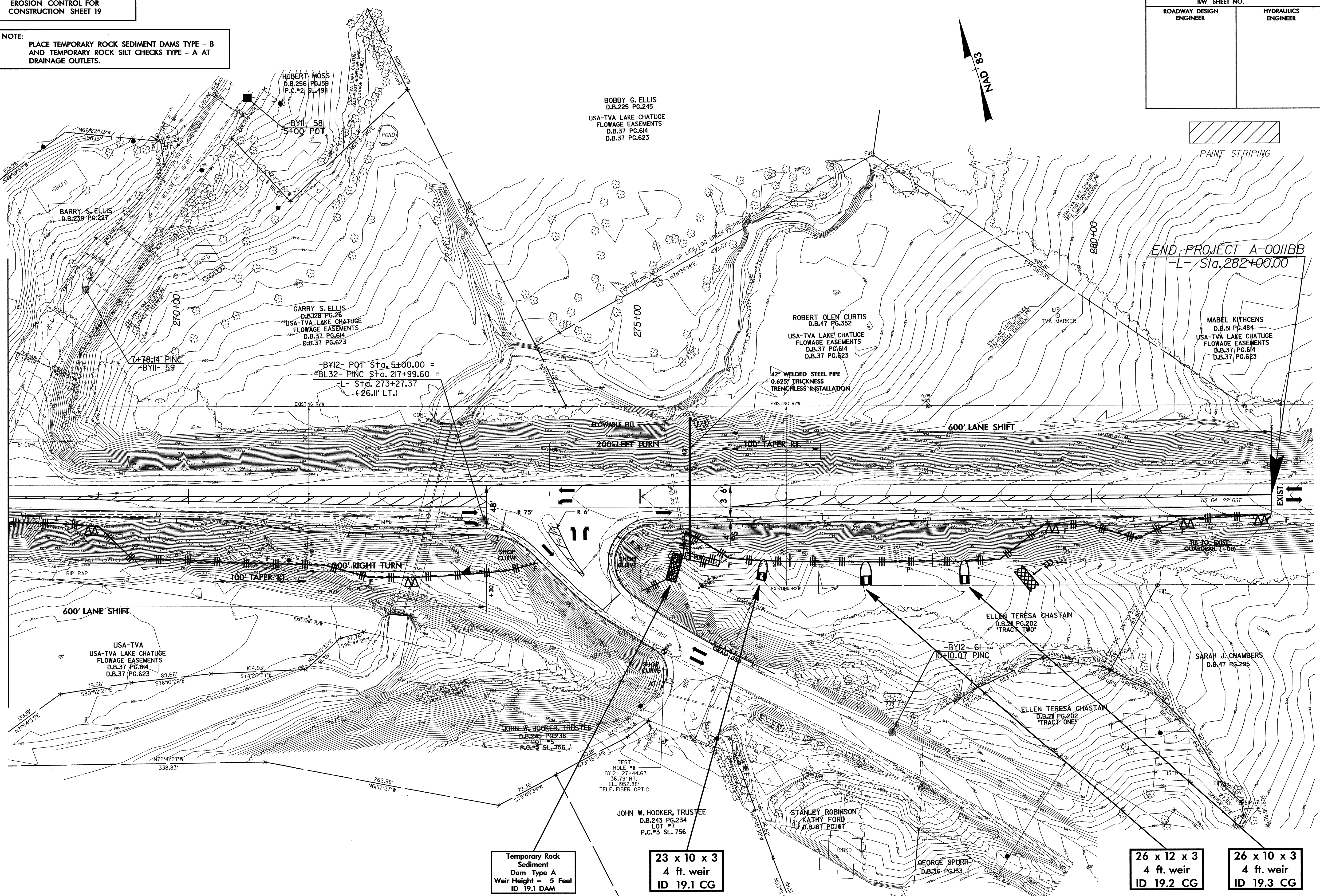
8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

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

PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-20/CONST.19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE -L- STA. 268 + 00 SEE SHEET 18



END PROJECT A-0011BB
-L- Sta. 282+00.00

Temporary Rock
Sediment
Dam Type A
Weir Height = 5 Feet
ID 19.1 DAM

23 x 10 x 3
4 ft. weir
ID 19.1 CG

26 x 12 x 3
4 ft. weir
ID 19.2 CG

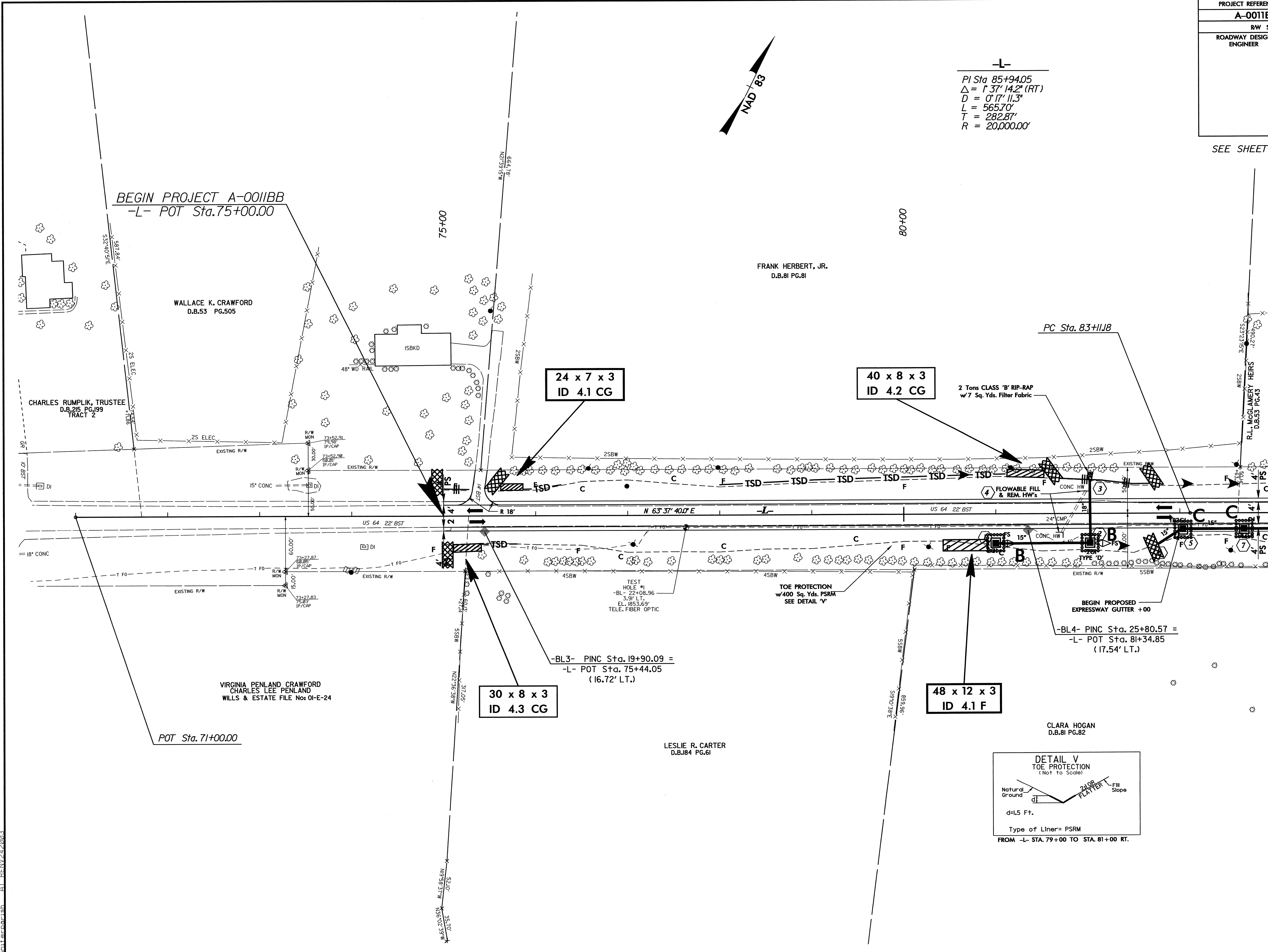
26 x 10 x 3
4 ft. weir
ID 19.3 CG

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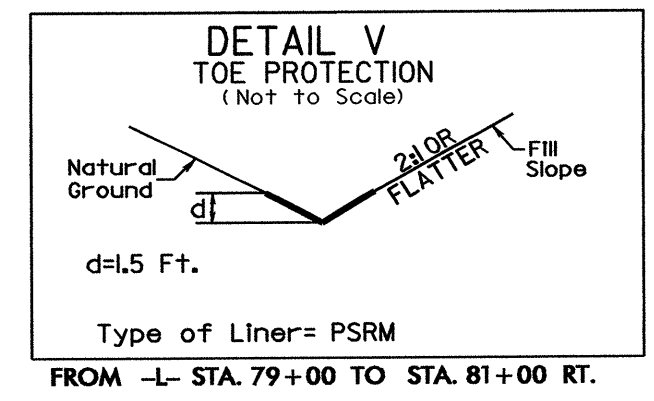
PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-21/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PI Sta 85+94.05
 $\Delta = 1' 37" 14.2" (RT)$
 $D = 0' 17" 11.3"$
 $L = 565.70'$
 $T = 282.87'$
 $R = 20,000.00'$

SEE SHEET 20 FOR -L- PROFILE



MATCHLINE -L- STA. 84+00 SEE SHEET 5



8/17/99
 30 JUN 2008 09:06
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PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-22/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 20 FOR -L- PROFILE

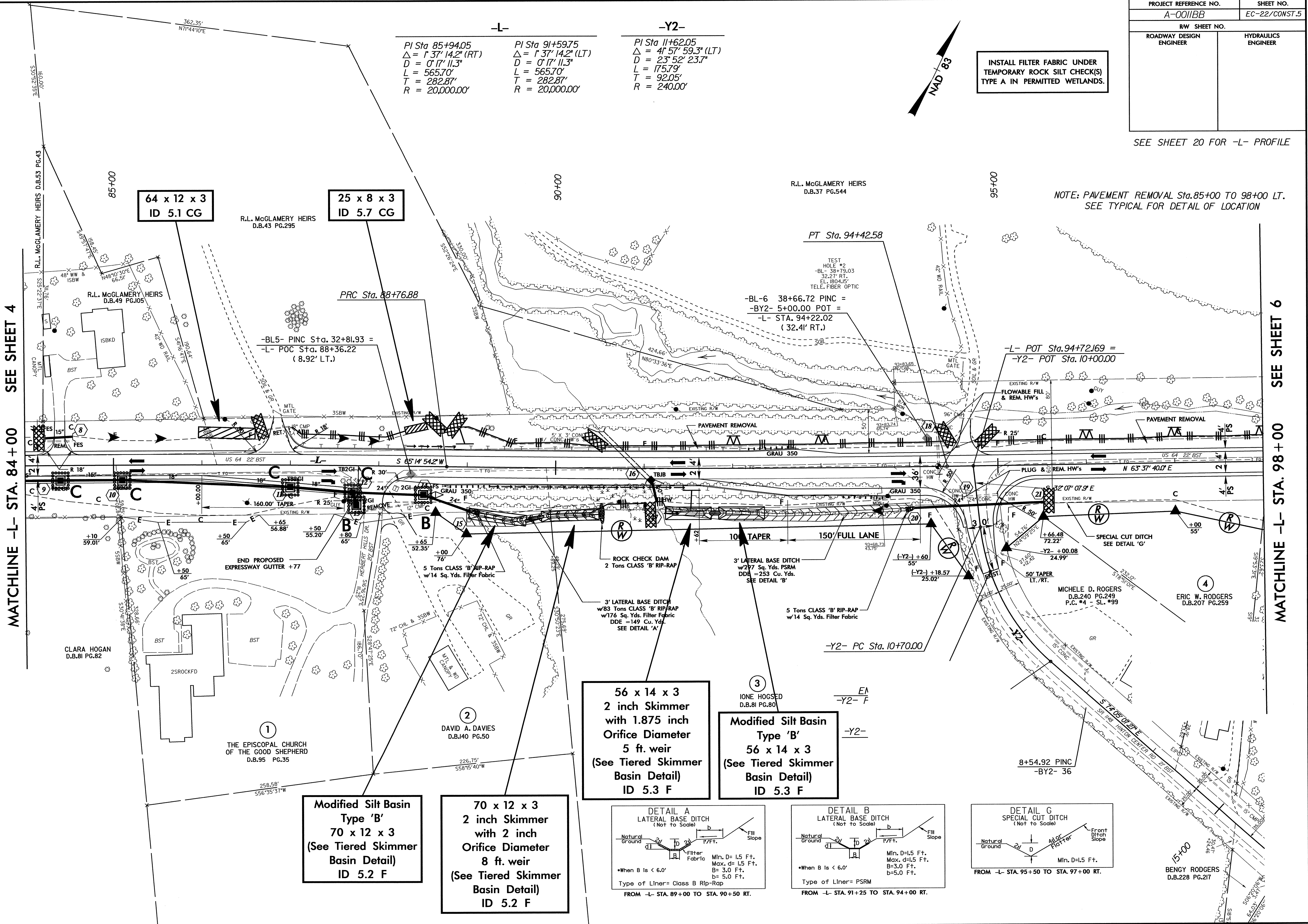
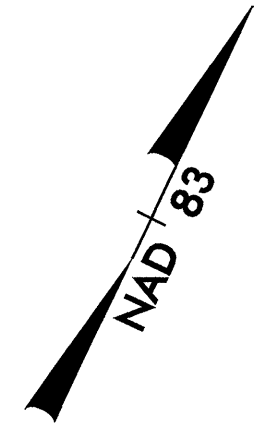
NOTE: PAVEMENT REMOVAL Sta. 85+00 TO 98+00 LT.
SEE TYPICAL FOR DETAIL OF LOCATION

-L-
 PI Sta 85+94.05
 $\Delta = 1^{\circ} 37' 14.2''$ (RT)
 $D = 0^{\circ} 17' 11.3''$
 $L = 565.70'$
 $T = 282.87'$
 $R = 20,000.00'$

-Y2-
 PI Sta 91+59.75
 $\Delta = 1^{\circ} 37' 14.2''$ (LT)
 $D = 0^{\circ} 17' 11.3''$
 $L = 565.70'$
 $T = 282.87'$
 $R = 20,000.00'$

PI Sta 11+62.05
 $\Delta = 4^{\circ} 57' 59.3''$ (LT)
 $D = 23^{\circ} 52' 23.7''$
 $L = 175.79'$
 $T = 92.05'$
 $R = 240.00'$

INSTALL FILTER FABRIC UNDER
TEMPORARY ROCK SILT CHECK(S)
TYPE A IN PERMITTED WETLANDS.



MATCHLINE -L- STA. 84+00 SEE SHEET 4

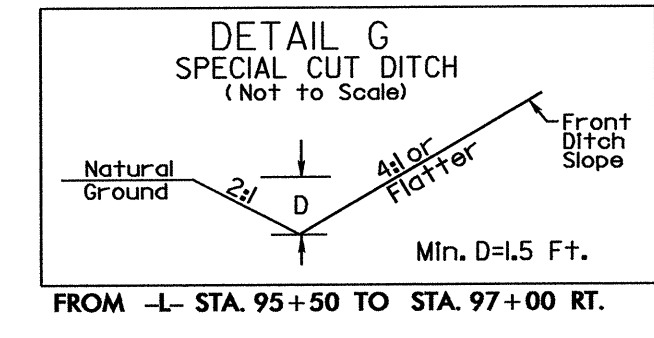
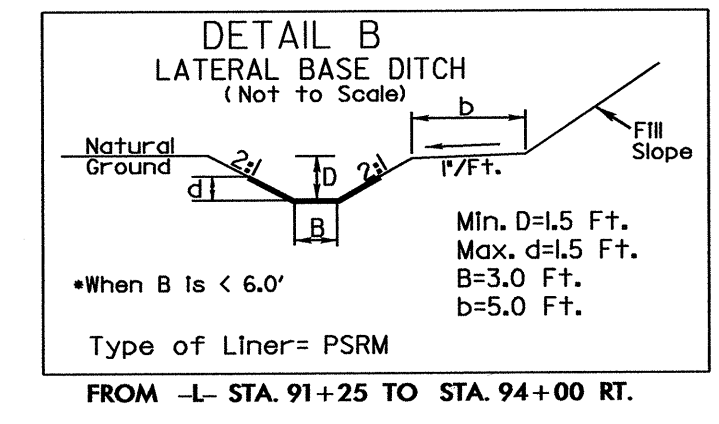
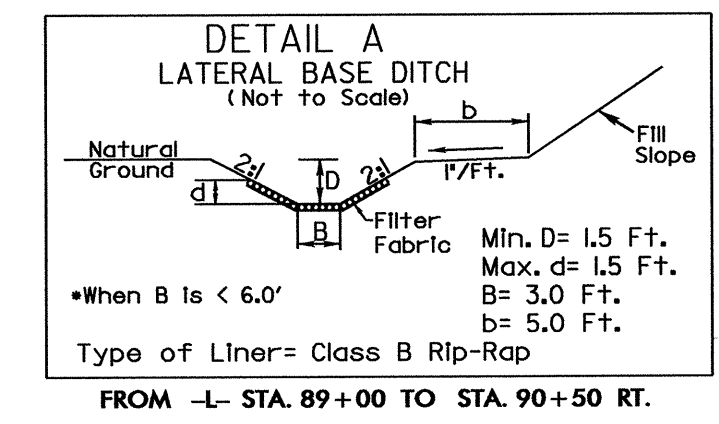
MATCHLINE -L- STA. 98+00 SEE SHEET 6

56 x 14 x 3
 2 inch Skimmer
 with 1.875 inch
 Orifice Diameter
 5 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 5.3 F

Modified Silt Basin
 Type 'B'
 56 x 14 x 3
 (See Tiered Skimmer
 Basin Detail)
 ID 5.3 F

Modified Silt Basin
 Type 'B'
 70 x 12 x 3
 (See Tiered Skimmer
 Basin Detail)
 ID 5.2 F

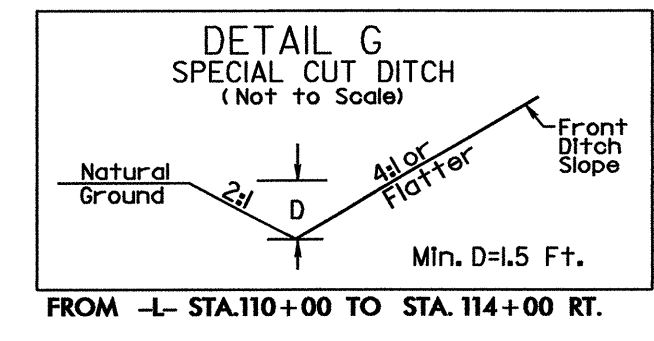
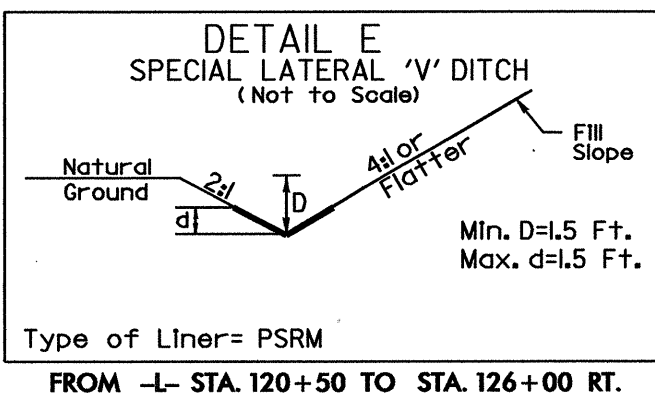
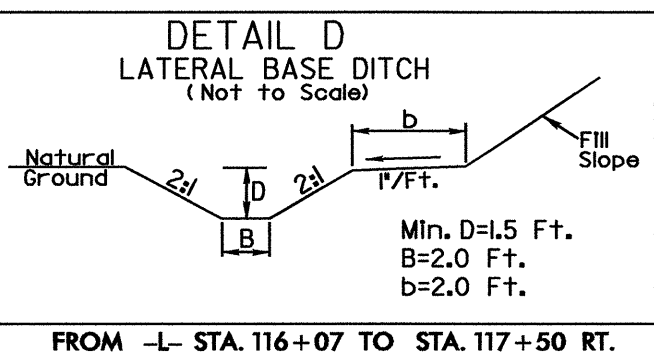
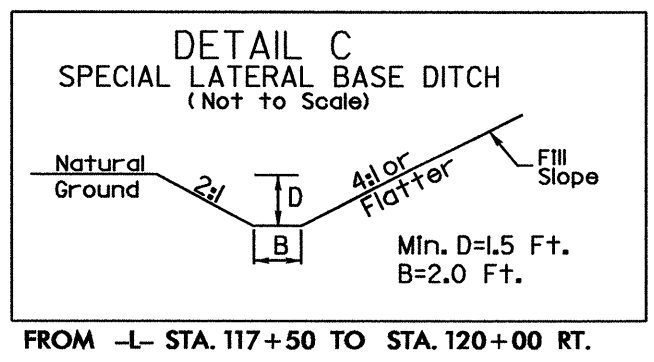
70 x 12 x 3
 2 inch Skimmer
 with 2 inch
 Orifice Diameter
 8 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 5.2 F



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 Jennifer

8/17/99

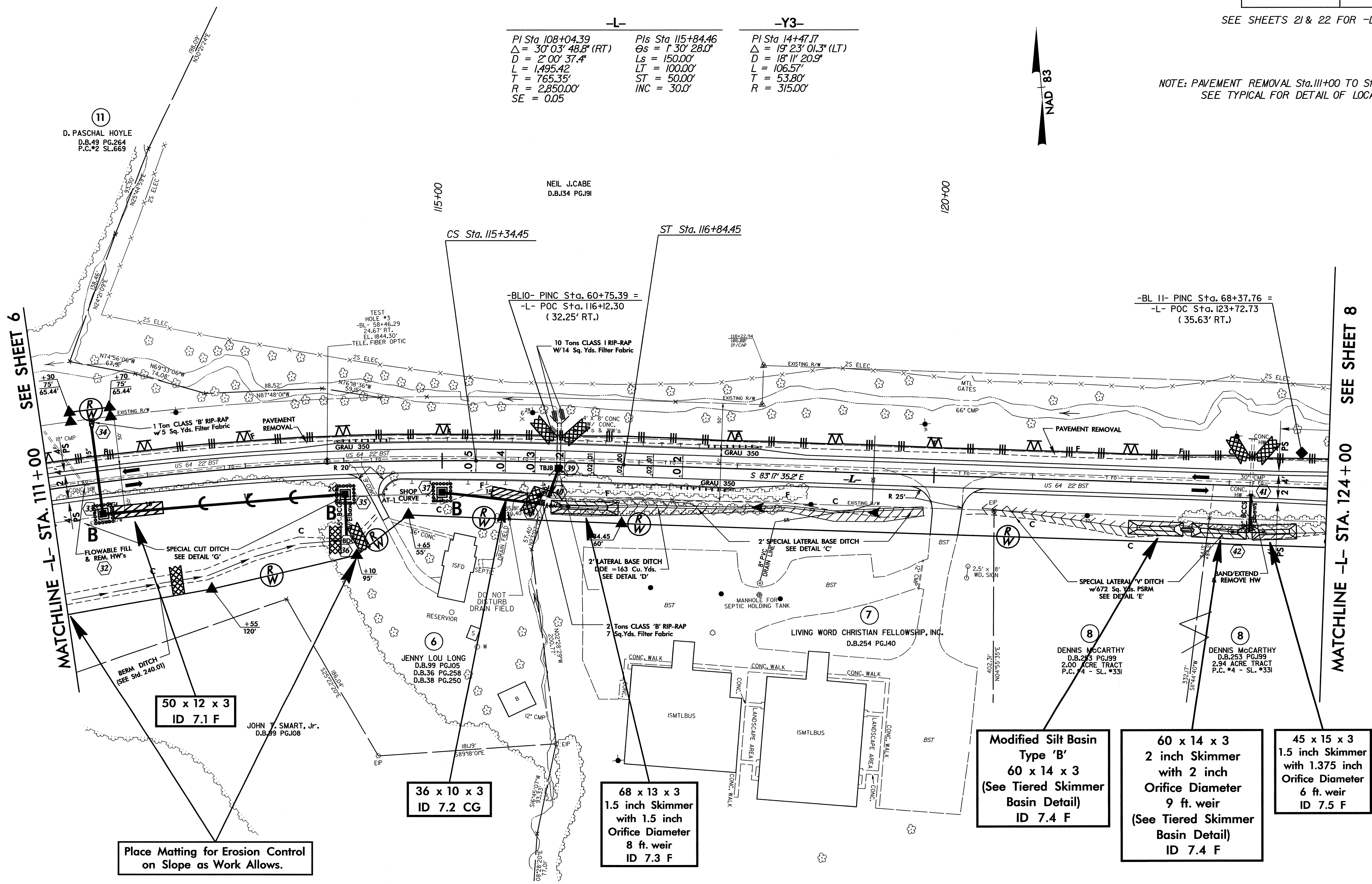
PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-24/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-	-Y3-
PI Sta 108+04.39	PI Sta 115+84.46
$\Delta = 30' 03" 48.8" (RT)$	$\Delta = 1' 30' 28.0"$
D = 2' 00' 37.4"	Ls = 150.00'
L = 1,495.42	LT = 100.00'
T = 765.35'	ST = 50.00'
R = 2,850.00'	INC = 30.0'
SE = 0.05	

SEE SHEETS 21 & 22 FOR -L- PROFILE

NOTE: PAVEMENT REMOVAL Sta. 111+00 TO Sta. 124+00 LT. SEE TYPICAL FOR DETAIL OF LOCATION



MATCHLINE -L- STA. 111 + 00 SEE SHEET 6

MATCHLINE -L- STA. 124 + 00 SEE SHEET 8

Place Matting for Erosion Control on Slope as Work Allows.

50 x 12 x 3 ID 7.1 F

36 x 10 x 3 ID 7.2 CG

68 x 13 x 3 1.5 inch Skimmer with 1.5 inch Orifice Diameter 8 ft. weir ID 7.3 F

Modified Silt Basin Type 'B' 60 x 14 x 3 (See Tiered Skimmer Basin Detail) ID 7.4 F

60 x 14 x 3 2 inch Skimmer with 2 inch Orifice Diameter 9 ft. weir (See Tiered Skimmer Basin Detail) ID 7.4 F

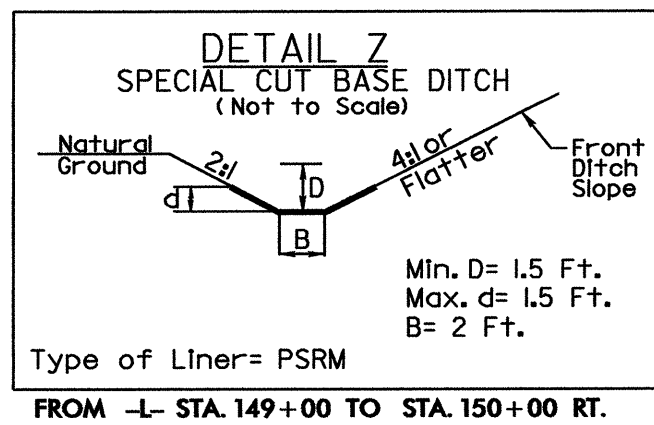
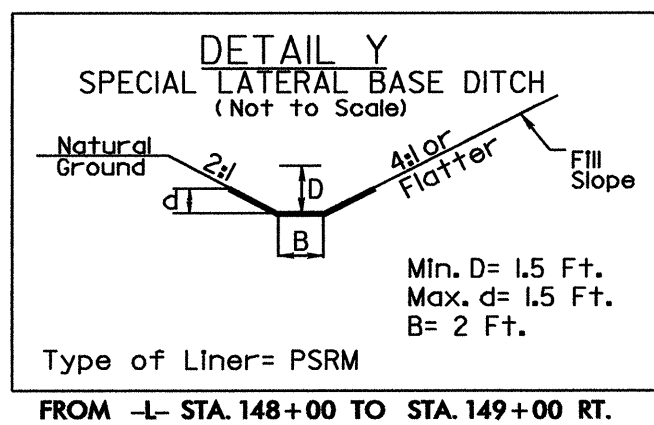
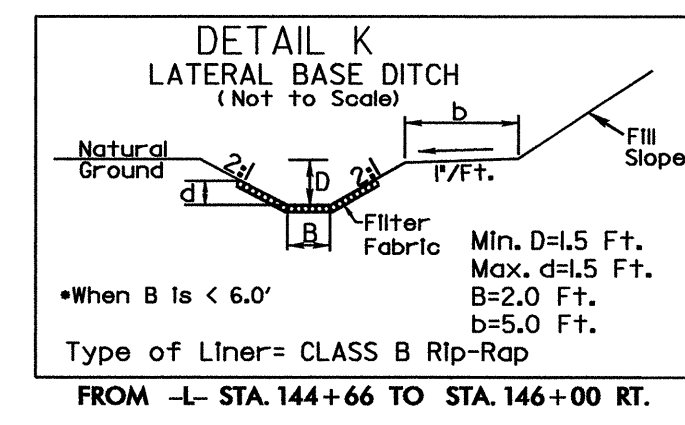
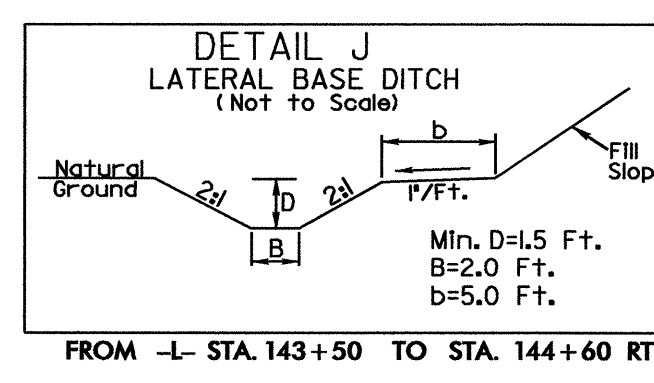
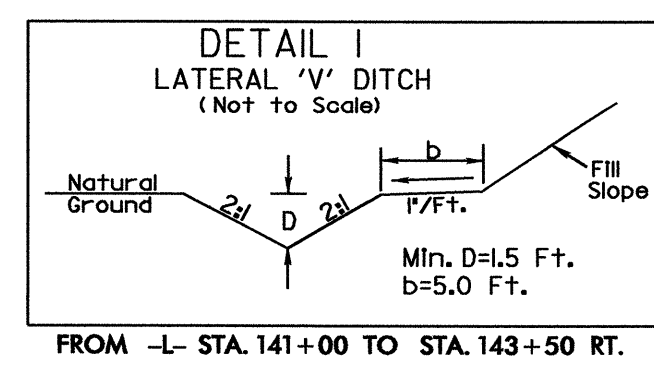
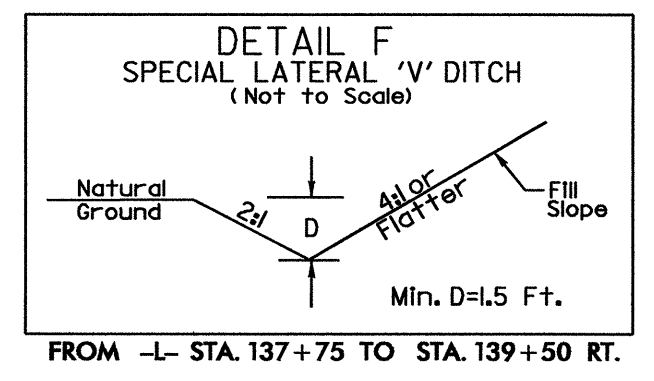
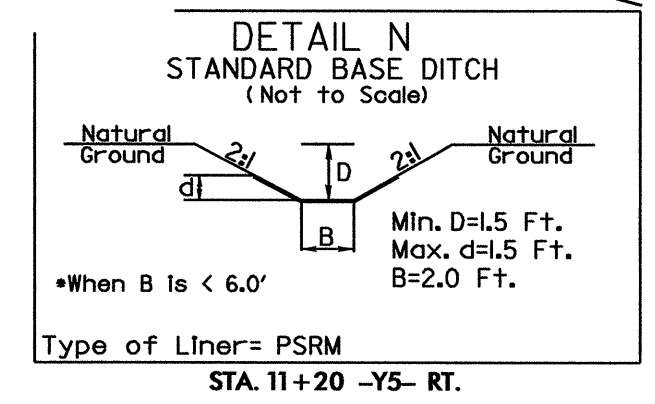
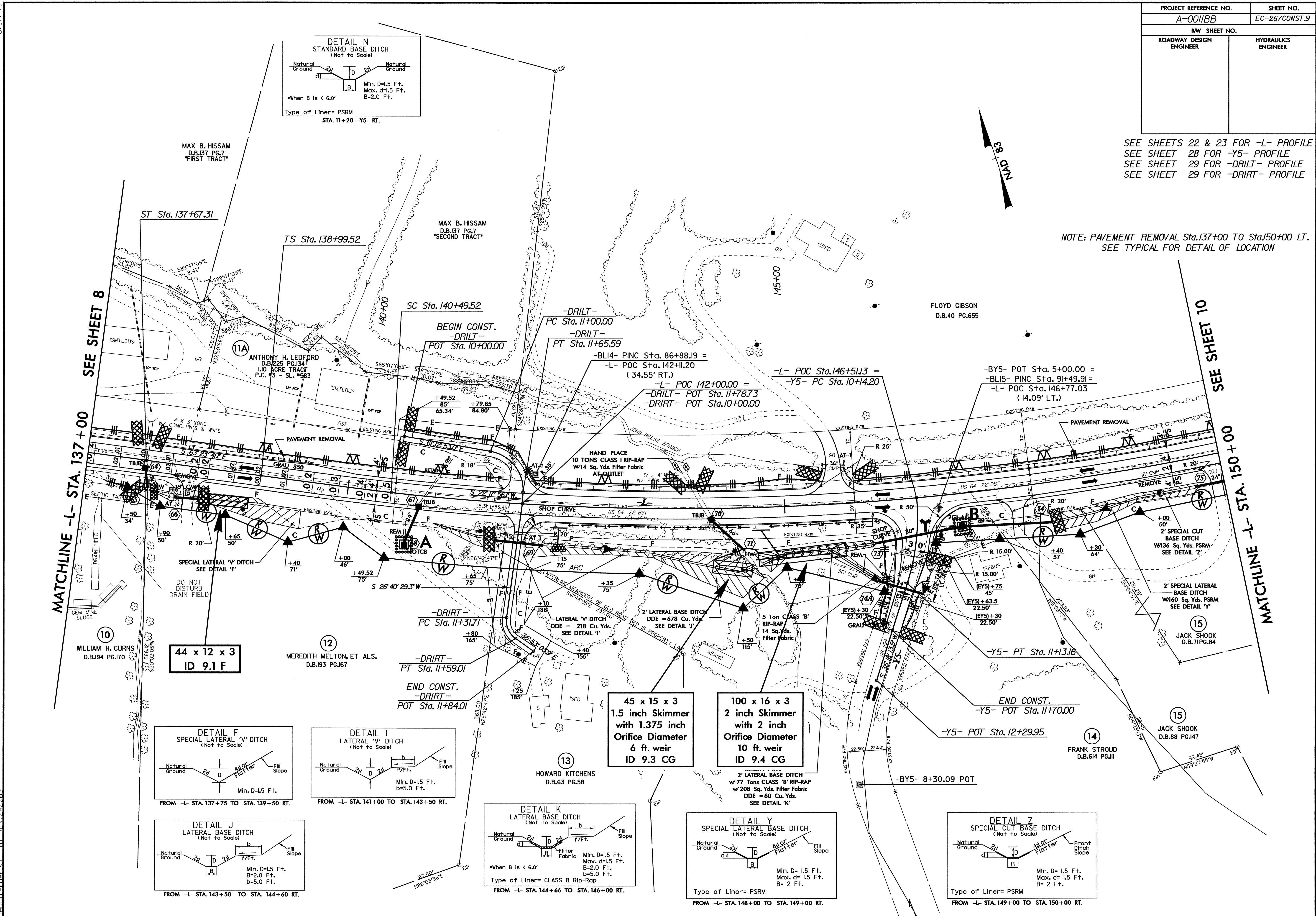
45 x 15 x 3 1.5 inch Skimmer with 1.375 inch Orifice Diameter 6 ft. weir ID 7.5 F

02-JUL-2008 16:22 g:\tippro\ec\ec-24\const\design\0011bb.ec-psd07.dgn

PROJECT REFERENCE NO.		SHEET NO.	
A-0011BB		EC-26/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

SEE SHEETS 22 & 23 FOR -L- PROFILE
 SEE SHEET 28 FOR -Y5- PROFILE
 SEE SHEET 29 FOR -DRILT- PROFILE
 SEE SHEET 29 FOR -DRIRT- PROFILE

NOTE: PAVEMENT REMOVAL STA.137+00 TO STA.150+00 LT.
 SEE TYPICAL FOR DETAIL OF LOCATION



44 x 12 x 3
 ID 9.1 F

45 x 15 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 6 ft. weir
 ID 9.3 CG

100 x 16 x 3
 2 inch Skimmer
 with 2 inch
 Orifice Diameter
 10 ft. weir
 ID 9.4 CG

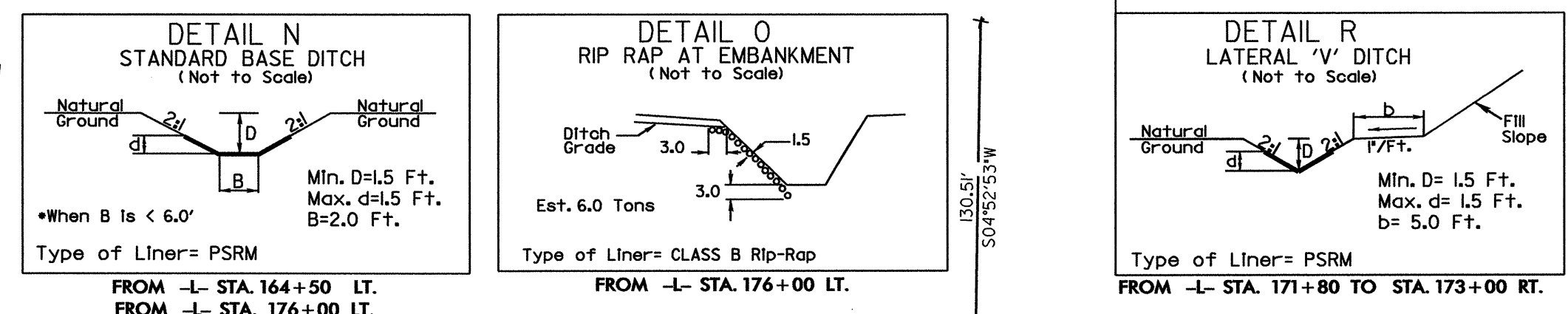
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PROJECT REFERENCE NO.		SHEET NO.	
A-0011BB		EC-28/CONST.II	
RW SHEET NO.		HYDRAULICS	
ROADWAY DESIGN ENGINEER		ENGINEER	



SEE SHEETS 23 & 24 FOR -L- PROFILE
SEE SHEET 29 FOR -DR2RT- PROFILE

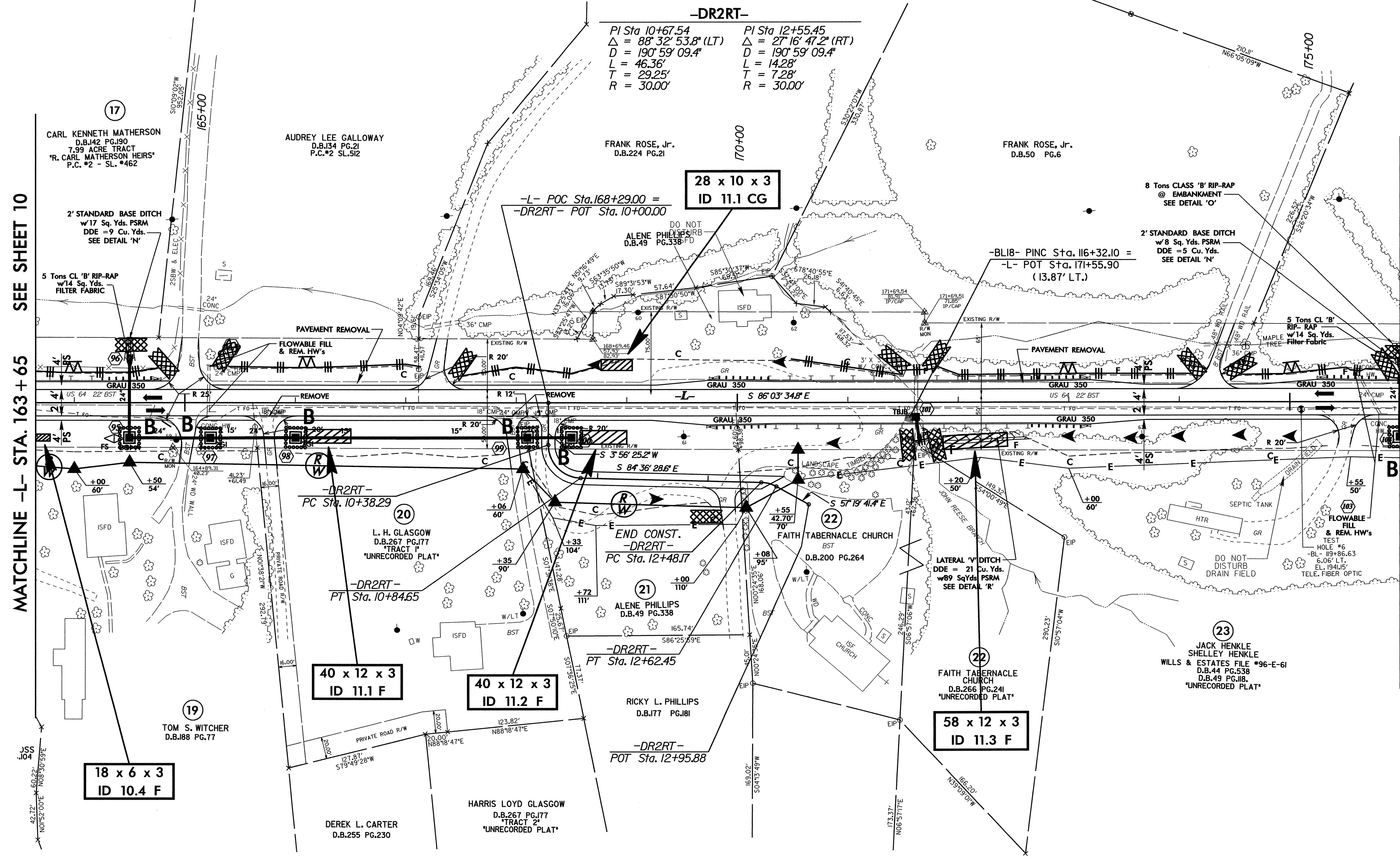
NOTE: PAVEMENT REMOVAL Sta.150+00 TO Sta.163+00 LT.
SEE TYPICAL FOR DETAIL OF LOCATION



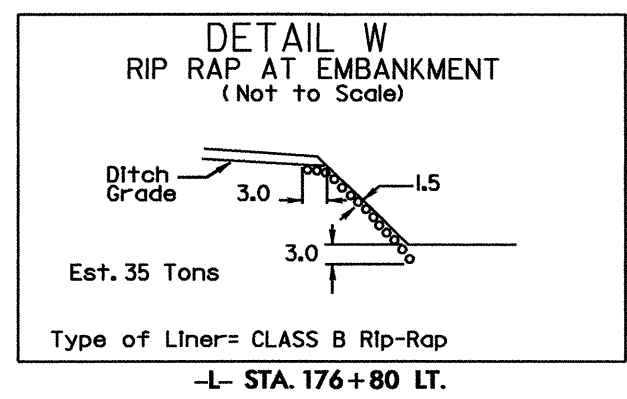
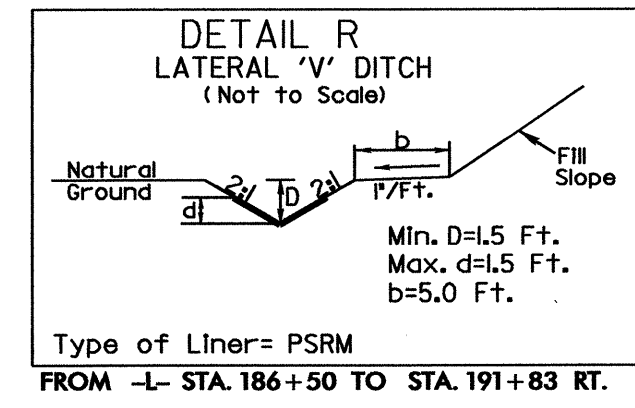
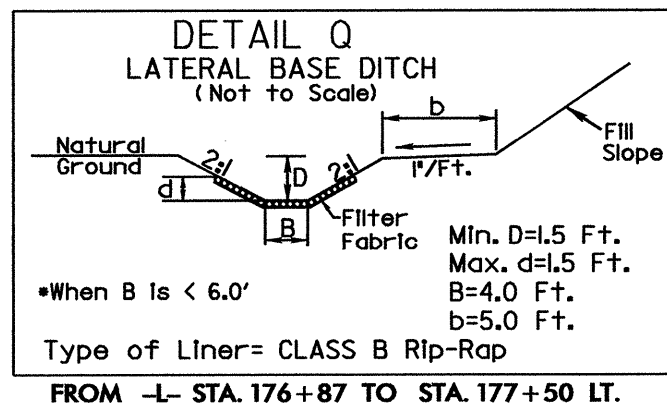
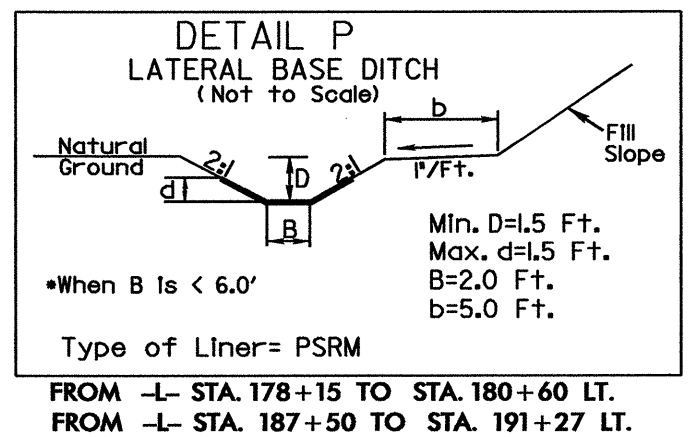
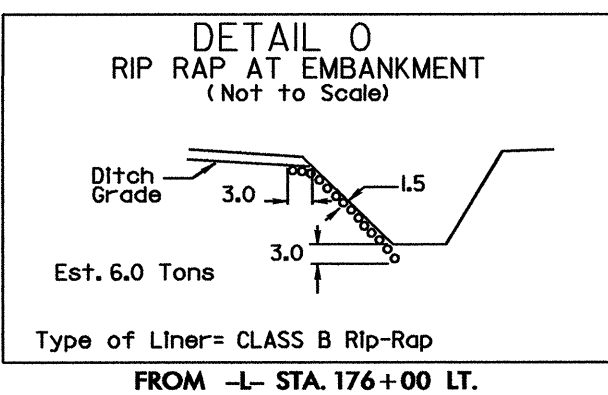
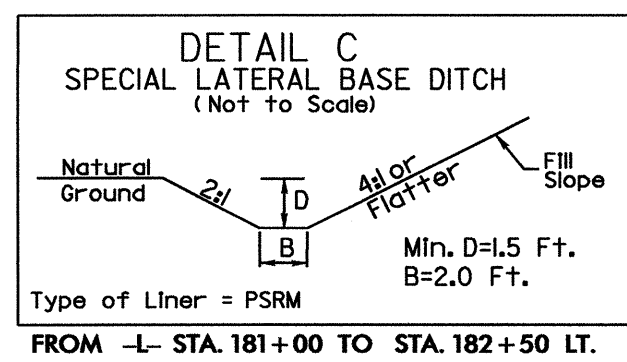
-DR2RT-
PI Sta 10+67.54 PI Sta 12+55.45
 $\Delta = 88^\circ 32' 53.8" (LT)$ $\Delta = 27^\circ 16' 47.2" (RT)$
 $D = 190' 59' 09.4"$ $D = 190' 59' 09.4"$
 $L = 46.36'$ $L = 14.28'$
 $T = 29.25'$ $T = 7.28'$
 $R = 30.00'$ $R = 30.00'$

MATCHLINE -L- STA. 163+65 SEE SHEET 10

MATCHLINE -L- STA. 176+00 SEE SHEET 12



PROJECT REFERENCE NO.		SHEET NO.	
A-0011BB		EC-29/CONST.12	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



SEE SHEET 24 FOR -L- PROFILE
SEE SHEET 29 FOR -DR3RT- PROFILE

-DR3RT-

PI Sta 10+86.20	PI Sta 13+90.32
$\Delta = 56^\circ 45' 02.3''$ (LT)	$\Delta = 118^\circ 56' 34.5''$ (RT)
$D = 190' 59' 09.4''$	$D = 229' 10' 59.2''$
$L = 29.71'$	$L = 51.90'$
$T = 16.20'$	$T = 42.39'$
$R = 30.00'$	$R = 25.00'$

66 x 20 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
7 ft. weir
ID 12.4 F

**Place Matting for Erosion Control
on Slope as Work Allows.**

MATCHLINE -L- STA. 176+00 SEE SHEET 11

MATCHLINE -L- STA. 189+00 SEE SHEET 13

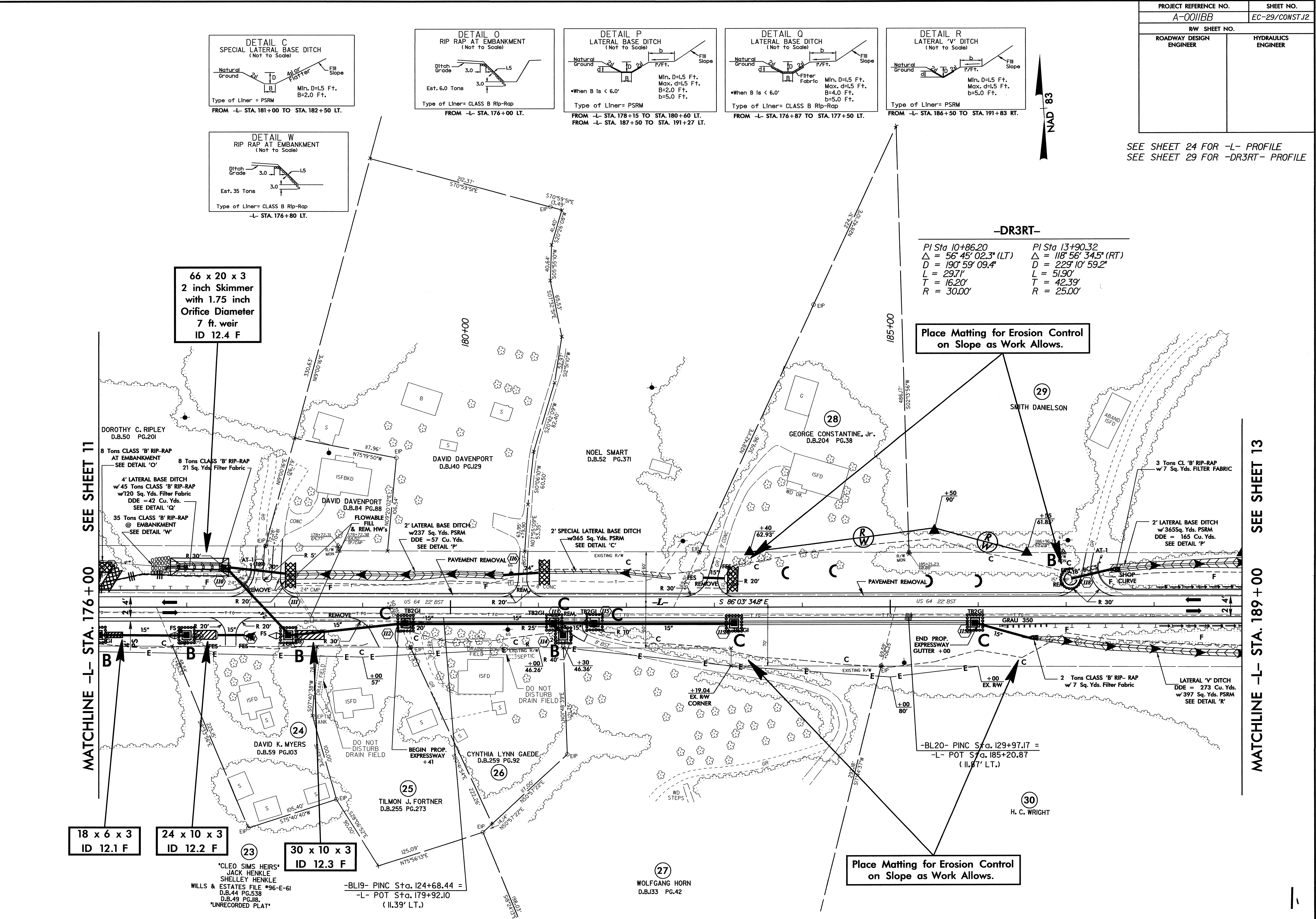
18 x 6 x 3
ID 12.1 F

24 x 10 x 3
ID 12.2 F

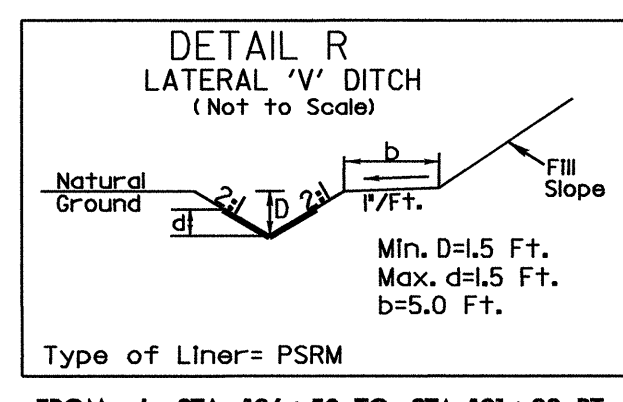
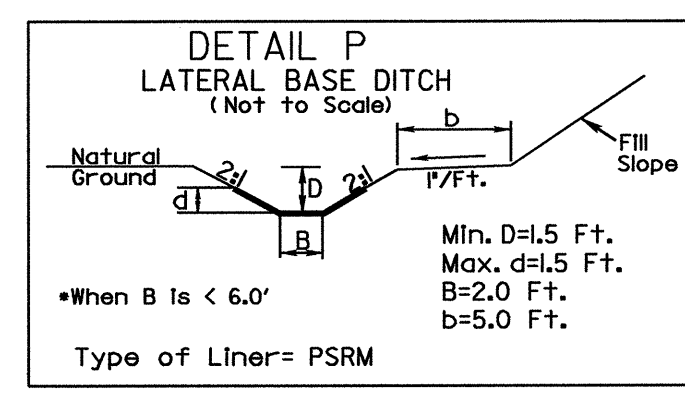
30 x 10 x 3
ID 12.3 F

**Place Matting for Erosion Control
on Slope as Work Allows.**

03-JUL-2008 09:24
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lennier@psh.com



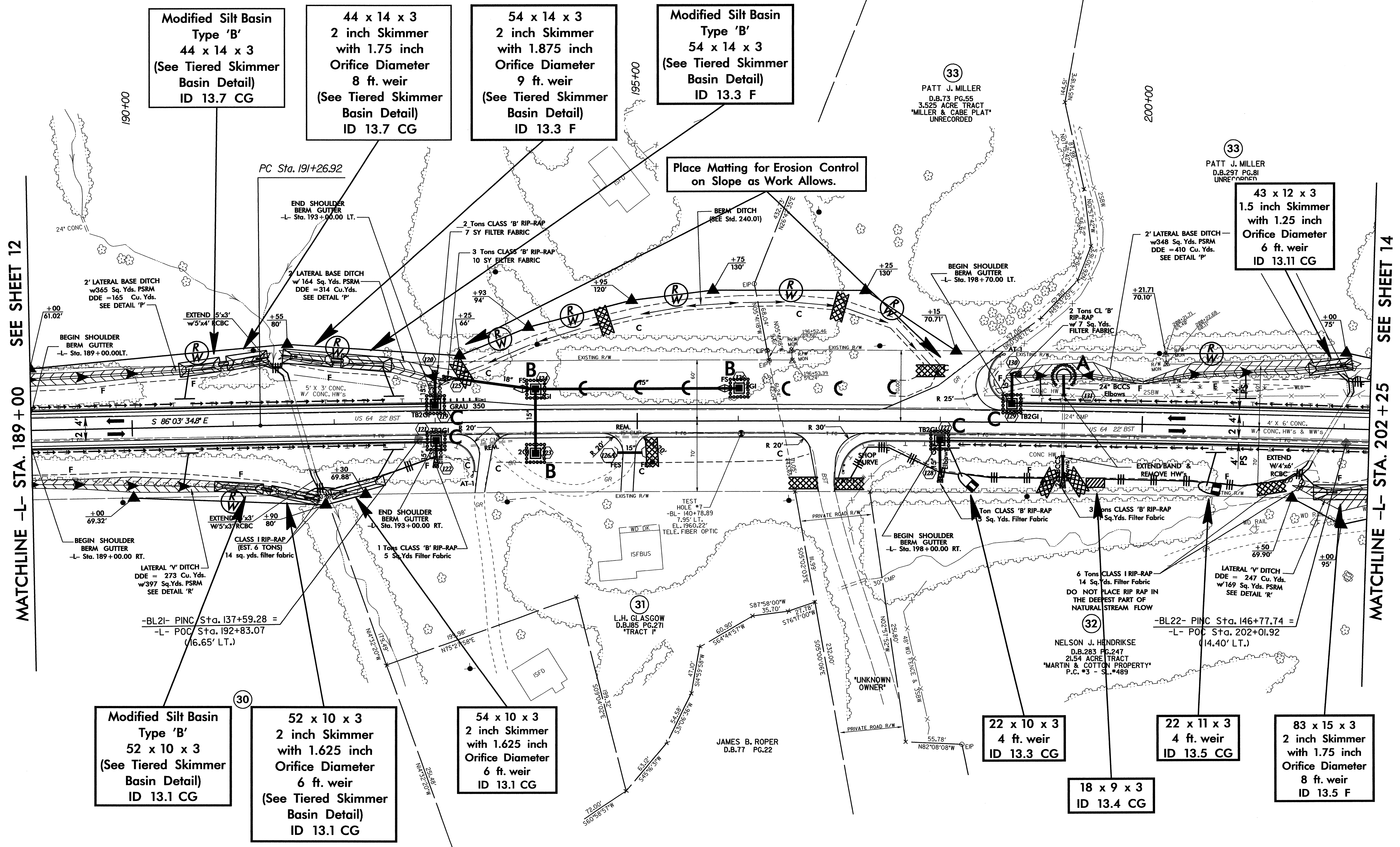
PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-30/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-
 PI Sta 218+00.64
 $\Delta = 14^{\circ} 12' 37.6''$ (RT)
 $D = 0^{\circ} 16' 01.6''$
 $L = 5,320.01'$
 $T = 2,673.73'$
 $R = 21,450.00'$



SEE SHEETS 24 & 25 FOR -L- PROFILE



MATCHLINE -L- STA. 189 + 00 SEE SHEET 12

MATCHLINE -L- STA. 202 + 25 SEE SHEET 14

Modified Silt Basin Type 'B'
 44 x 14 x 3
 2 inch Skimmer with 1.75 inch Orifice Diameter
 8 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 13.7 CG

44 x 14 x 3
 2 inch Skimmer with 1.75 inch Orifice Diameter
 8 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 13.7 CG

54 x 14 x 3
 2 inch Skimmer with 1.875 inch Orifice Diameter
 9 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 13.3 F

Modified Silt Basin Type 'B'
 54 x 14 x 3
 2 inch Skimmer with 1.875 inch Orifice Diameter
 9 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 13.3 F

43 x 12 x 3
 1.5 inch Skimmer with 1.25 inch Orifice Diameter
 6 ft. weir
 ID 13.11 CG

Modified Silt Basin Type 'B'
 52 x 10 x 3
 2 inch Skimmer with 1.625 inch Orifice Diameter
 6 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 13.1 CG

52 x 10 x 3
 2 inch Skimmer with 1.625 inch Orifice Diameter
 6 ft. weir
 (See Tiered Skimmer Basin Detail)
 ID 13.1 CG

54 x 10 x 3
 2 inch Skimmer with 1.625 inch Orifice Diameter
 6 ft. weir
 ID 13.1 CG

22 x 10 x 3
 4 ft. weir
 ID 13.3 CG

18 x 9 x 3
 ID 13.4 CG

22 x 11 x 3
 4 ft. weir
 ID 13.5 CG

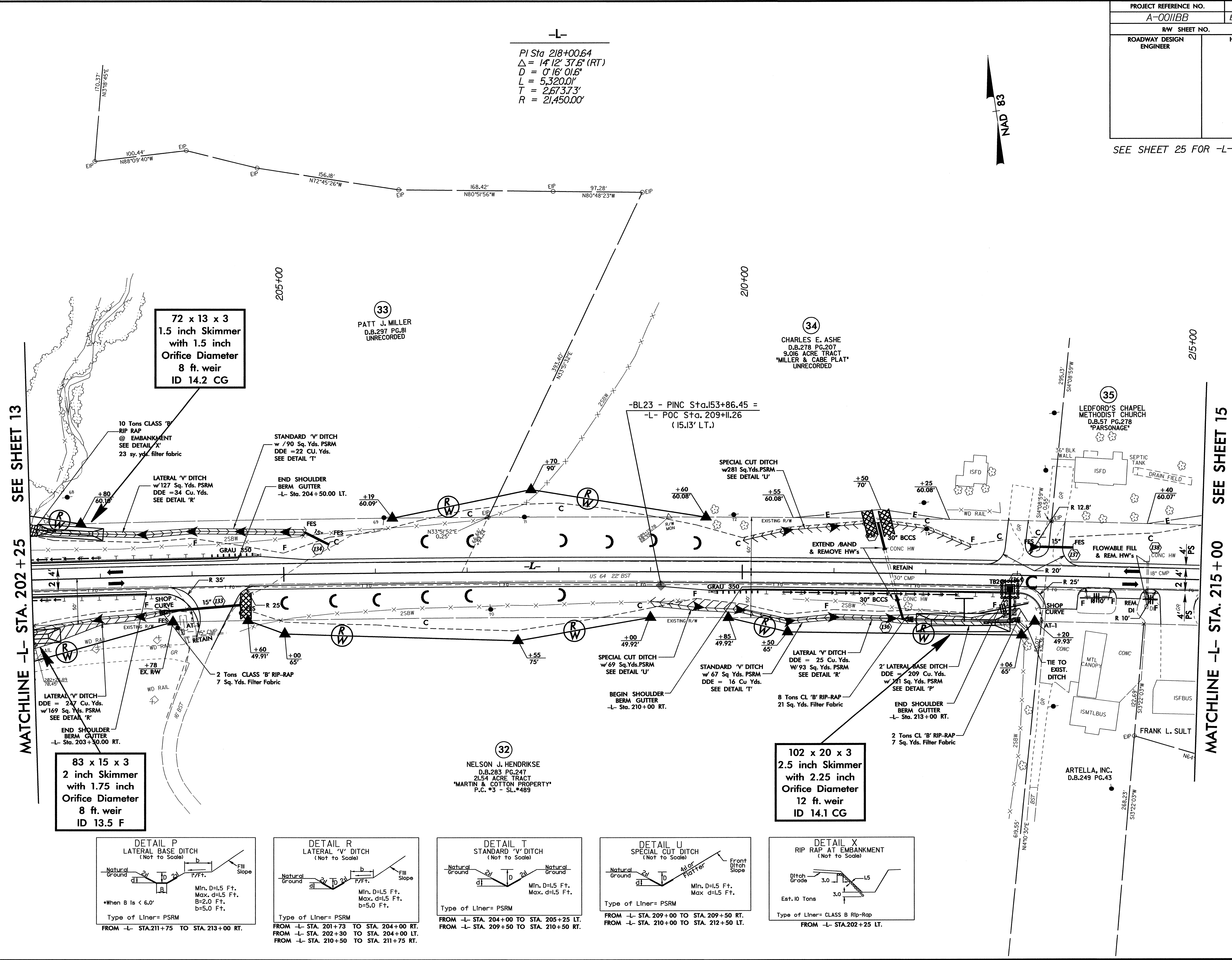
83 x 15 x 3
 2 inch Skimmer with 1.75 inch Orifice Diameter
 8 ft. weir
 ID 13.5 F

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PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-31/CONST.14
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

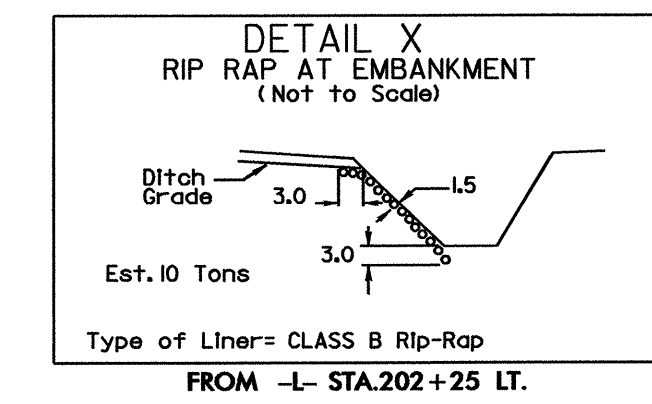
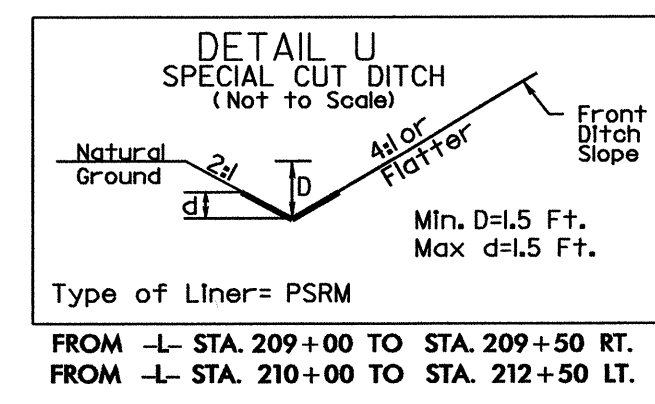
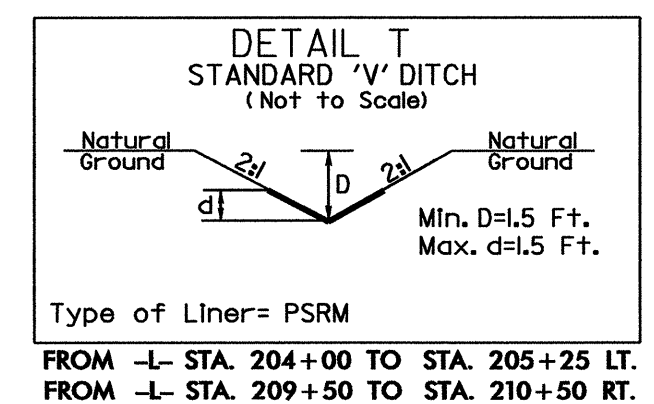
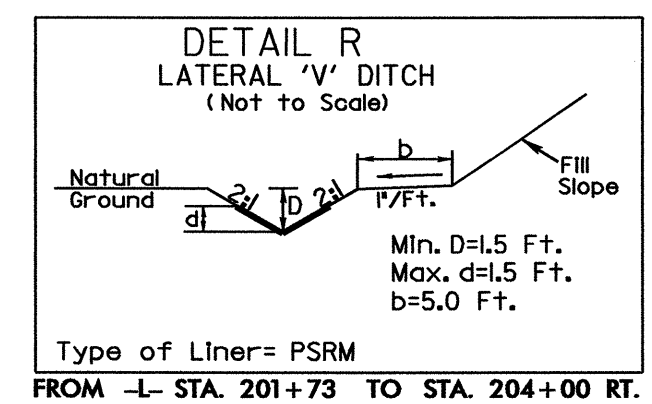
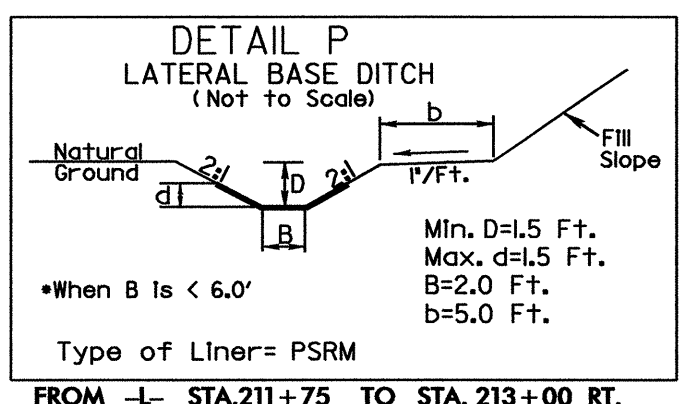
SEE SHEET 25 FOR -L- PROFILE

-L-
 PI Sta 218+00.64
 $\Delta = 14' 12" 37.6" (RT)$
 $D = 0' 16" 01.6"$
 $L = 5,320.01'$
 $T = 2,673.73'$
 $R = 21,450.00'$



MATCHLINE -L- STA. 202 + 25 SEE SHEET 13

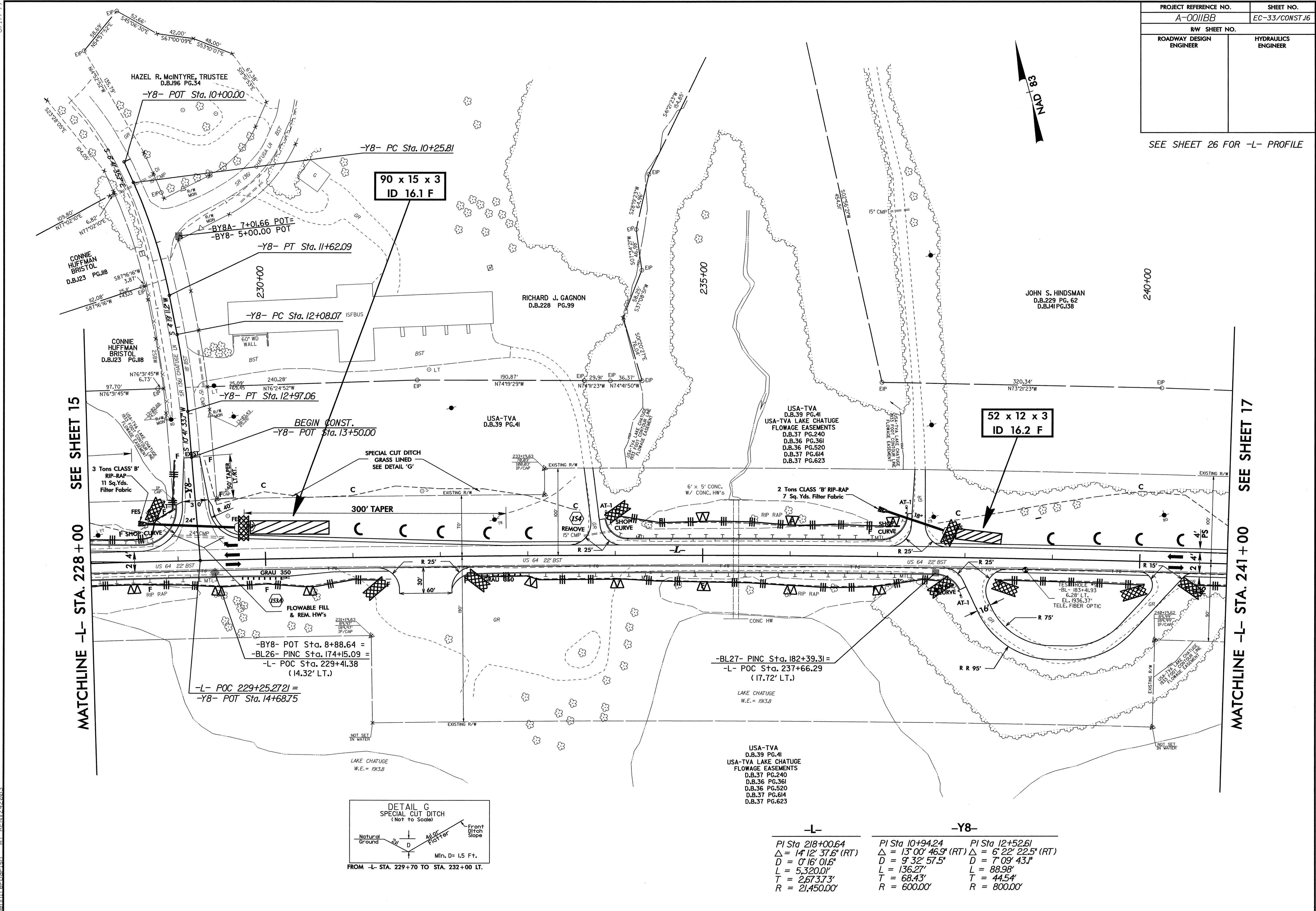
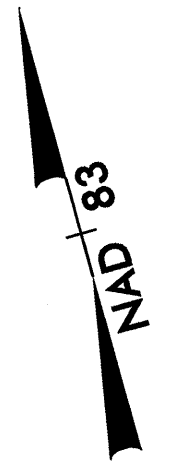
MATCHLINE -L- STA. 215 + 00 SEE SHEET 15



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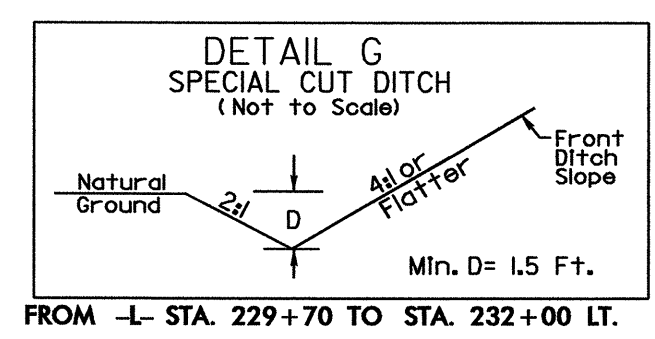
PROJECT REFERENCE NO. A-0011BB	SHEET NO. EC-33/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 26 FOR -L- PROFILE



MATCHLINE -L- STA. 228 + 00 SEE SHEET 15

MATCHLINE -L- STA. 241 + 00 SEE SHEET 17

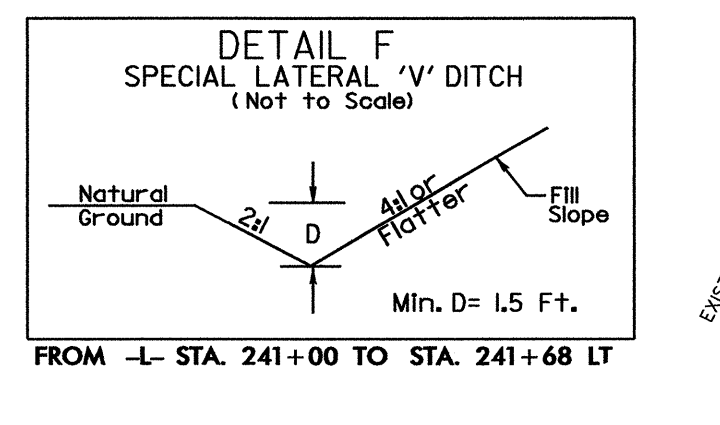
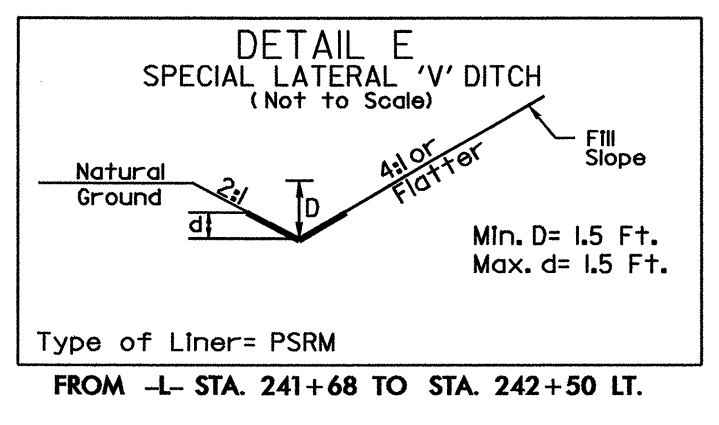
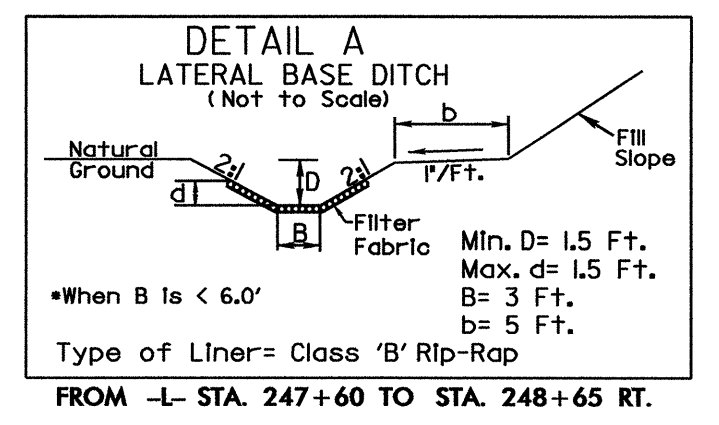
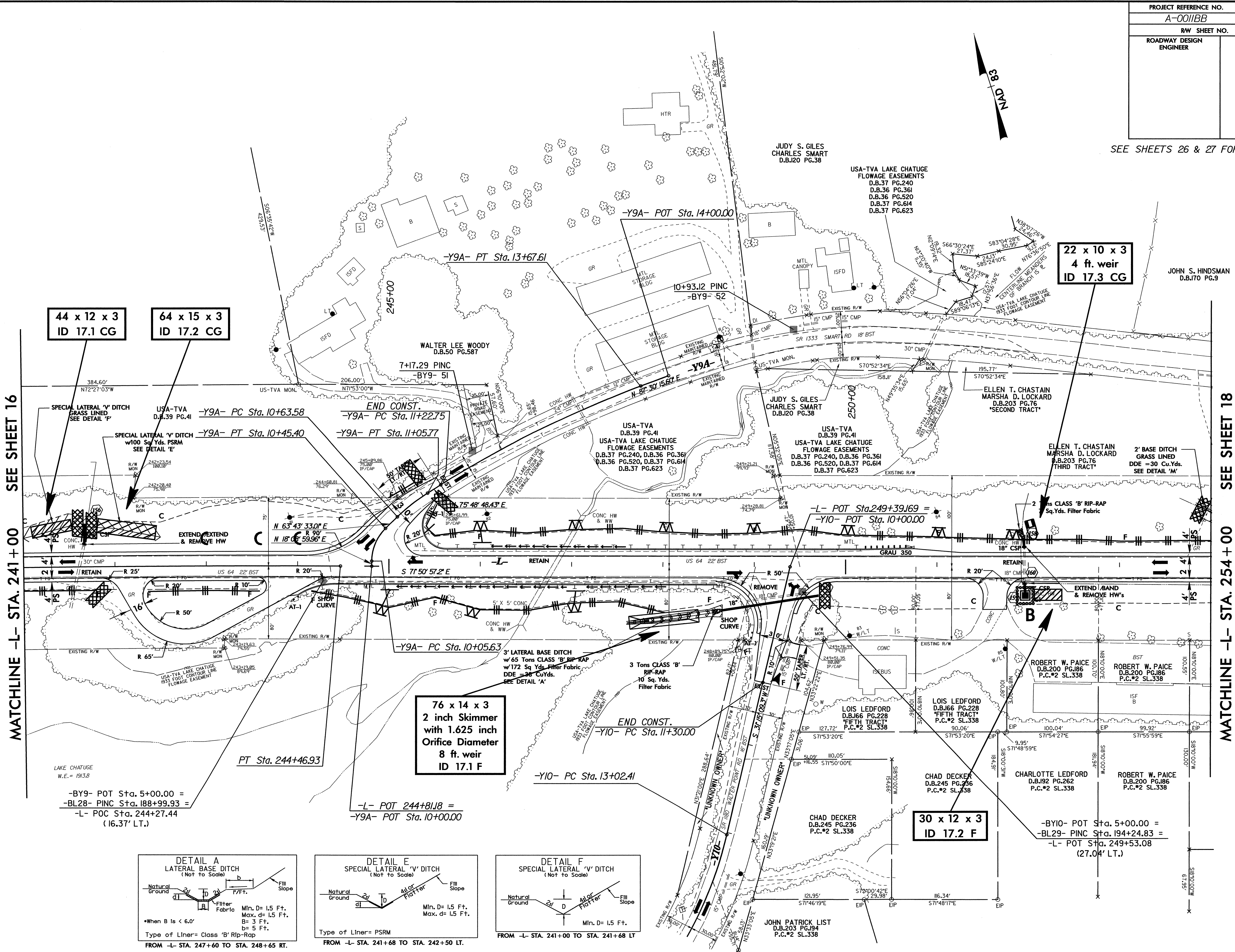


-L-		-Y8-	
PI Sta 218+00.64	$\Delta = 14' 12' 37.6''$ (RT)	PI Sta 10+94.24	$\Delta = 13' 00' 46.9''$ (RT)
D = 0' 16' 01.6"		D = 9' 32' 57.5"	$\Delta = 6' 22' 22.5''$ (RT)
L = 5,320.01'		L = 136.27'	
T = 2,673.73'		T = 68.43'	
R = 21,450.00'		R = 600.00'	
		L = 88.98'	
		T = 44.54'	
		R = 800.00'	

04-JUL-2008 10:40
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11/11/08 11:58 AM
8.17/99

PROJECT REFERENCE NO.	SHEET NO.
A-0011BB	EC-34/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

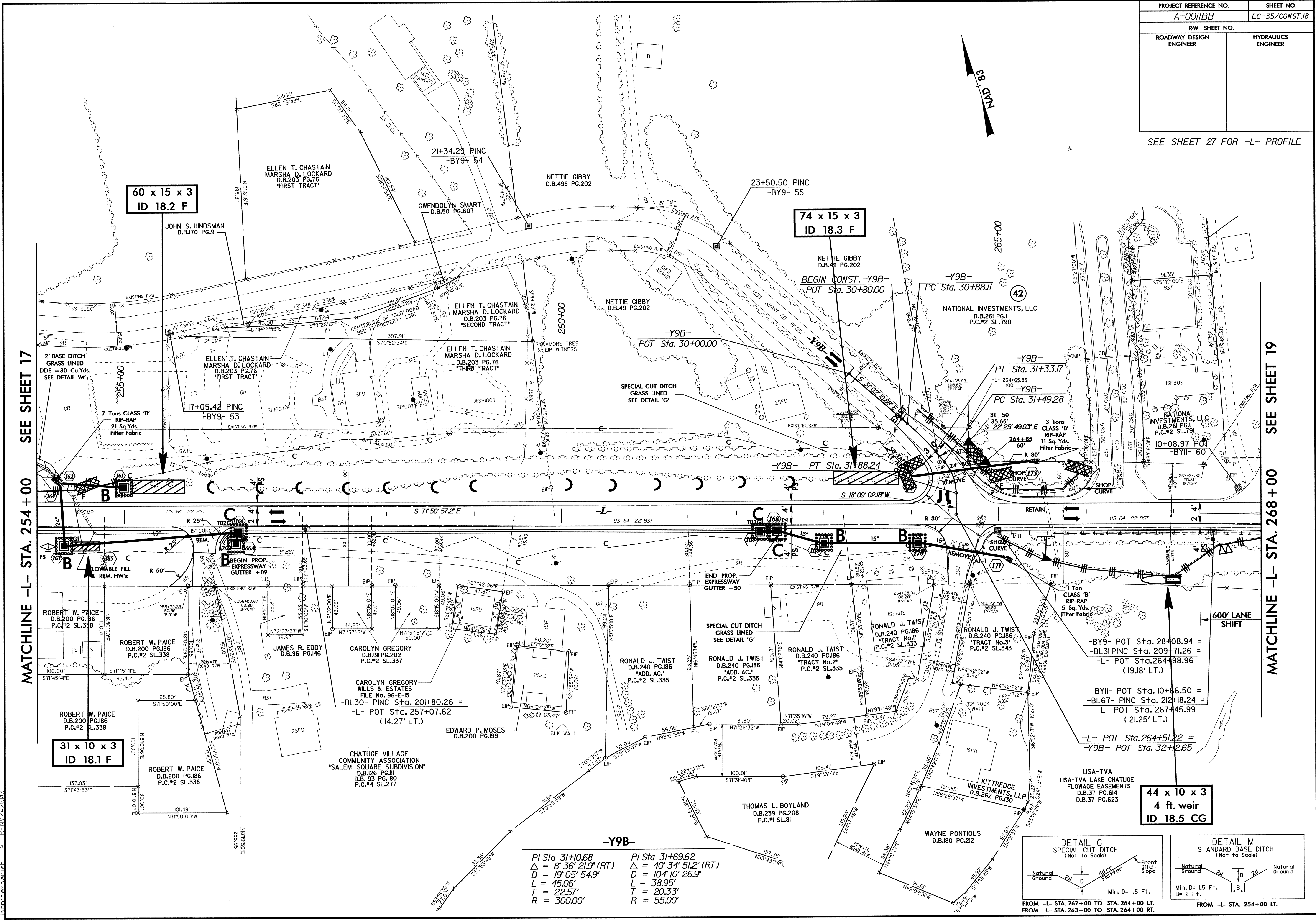
SEE SHEETS 26 & 27 FOR -L- PROFILE



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PROJECT REFERENCE NO.		SHEET NO.	
A-0011BB		EC-35/CONST.18	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

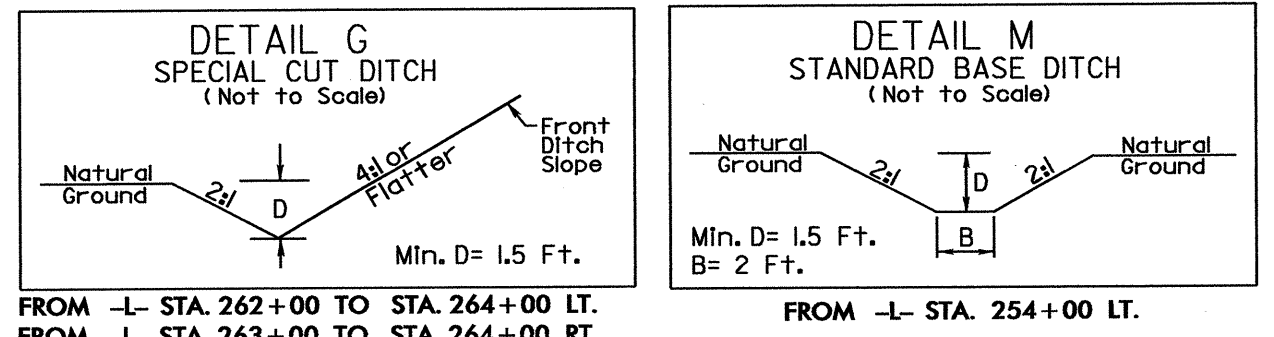
SEE SHEET 27 FOR -L- PROFILE



MATCHLINE -L- STA. 254+00 SEE SHEET 17

MATCHLINE -L- STA. 268+00 SEE SHEET 19

-Y9B-
 PI Sta 31+10.68 $\Delta = 8^{\circ} 36' 21.9''$ (RT) $D = 19^{\circ} 05' 54.9''$ $L = 45.06'$ $T = 22.57'$ $R = 300.00'$
 PI Sta 31+69.62 $\Delta = 40^{\circ} 34' 51.2''$ (RT) $D = 104^{\circ} 10' 26.9''$ $L = 38.95'$ $T = 20.33'$ $R = 55.00'$

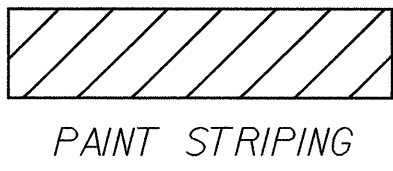


FROM -L- STA. 262+00 TO STA. 264+00 LT.
 FROM -L- STA. 263+00 TO STA. 264+00 RT.
 FROM -L- STA. 254+00 LT.
 FROM -L- STA. 264+00 LT.

8/17/99
 04 JUL - 2008 13:23
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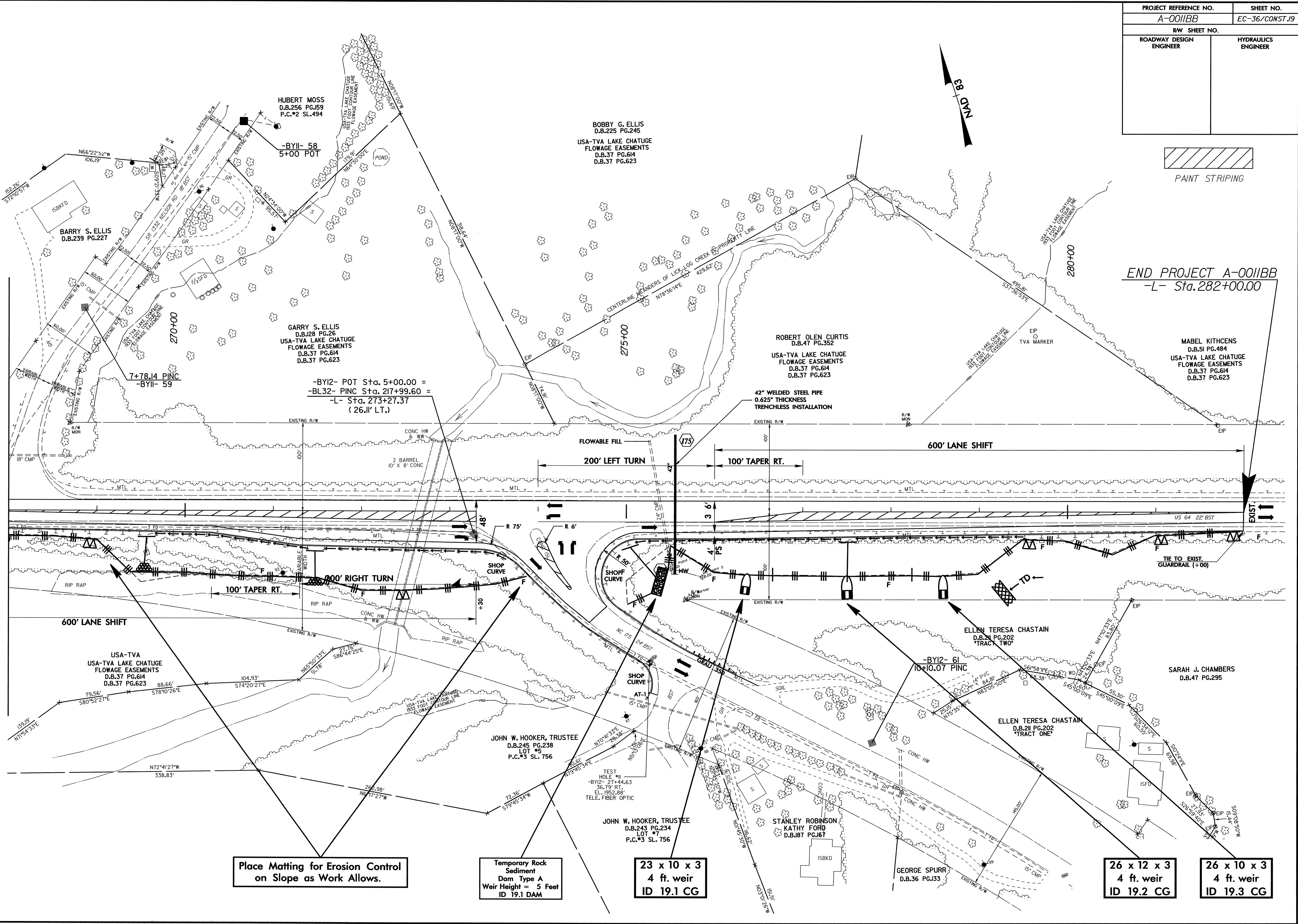
8/17/99

PROJECT REFERENCE NO. A-0011BB		SHEET NO. EC-36/CONST.19	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



END PROJECT A-0011BB
-L- Sta. 282+00.00

MATCHLINE -L- STA. 268+00 SEE SHEET 18



Place Matting for Erosion Control
on Slope as Work Allows.

Temporary Rock
Dam Type A
Weir Height = 5 Feet
ID 19.1 DAM

23 x 10 x 3
4 ft. weir
ID 19.1 CG

26 x 12 x 3
4 ft. weir
ID 19.2 CG

26 x 10 x 3
4 ft. weir
ID 19.3 CG

30-JUN-2008 09:43
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