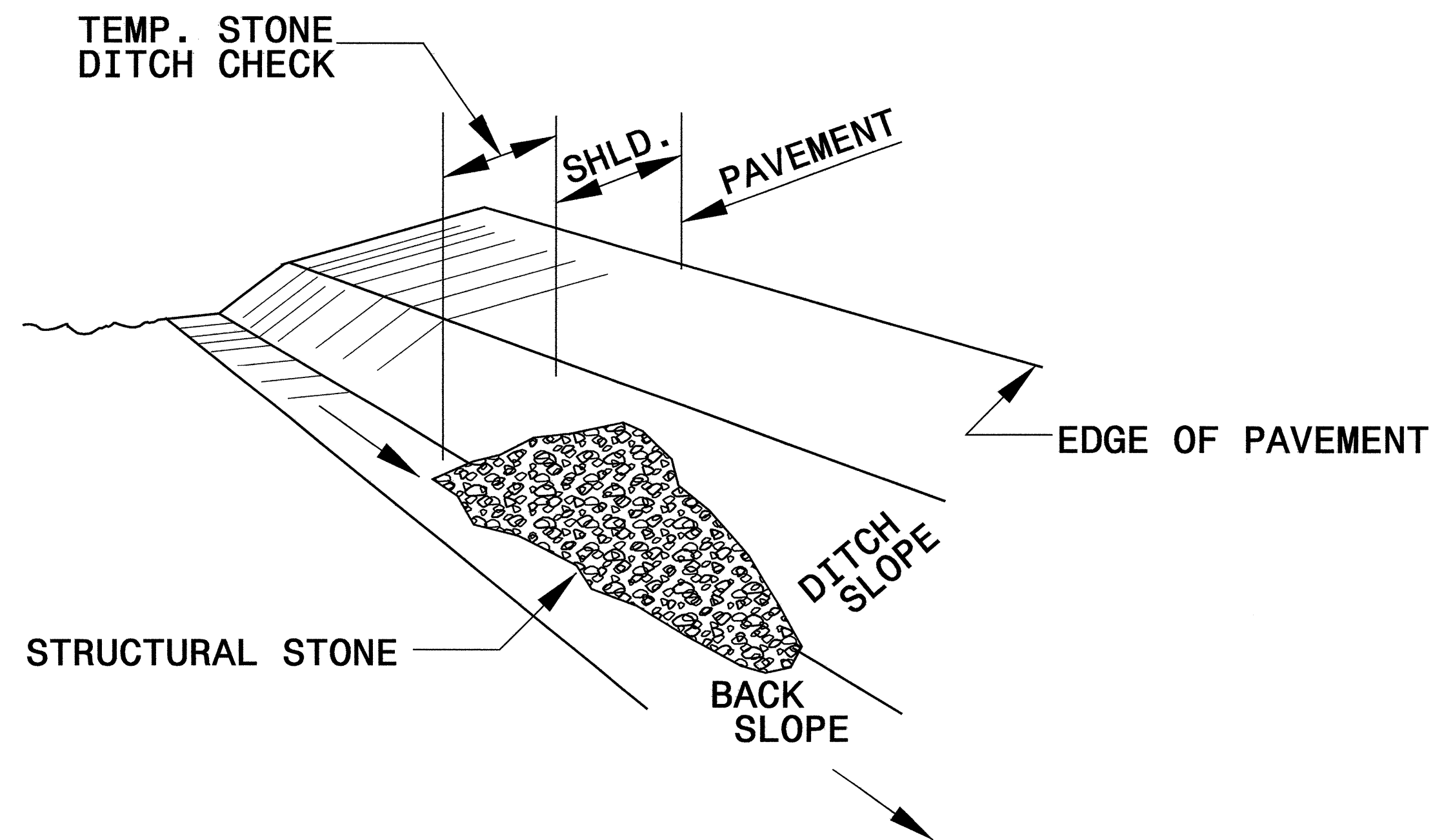


PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

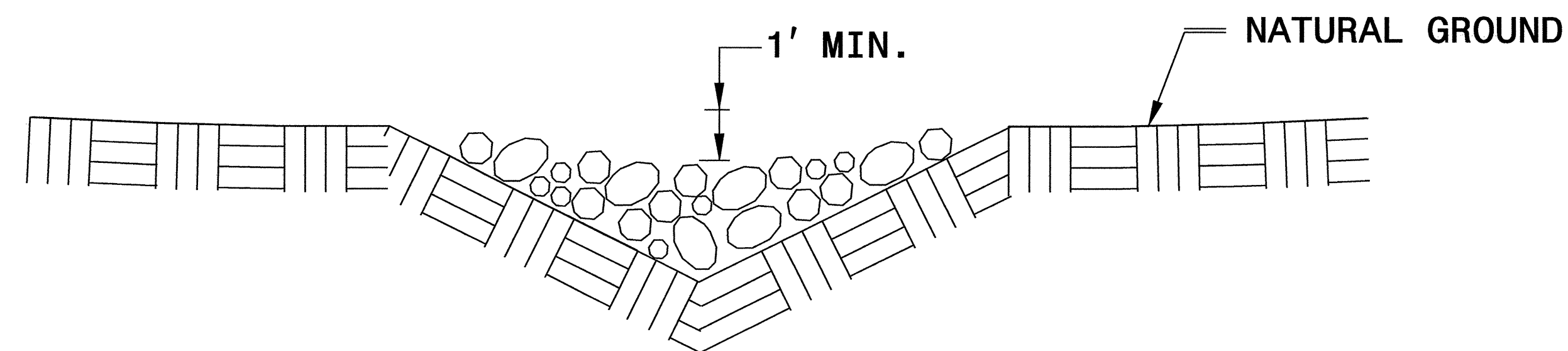


ISOMETRIC VIEW

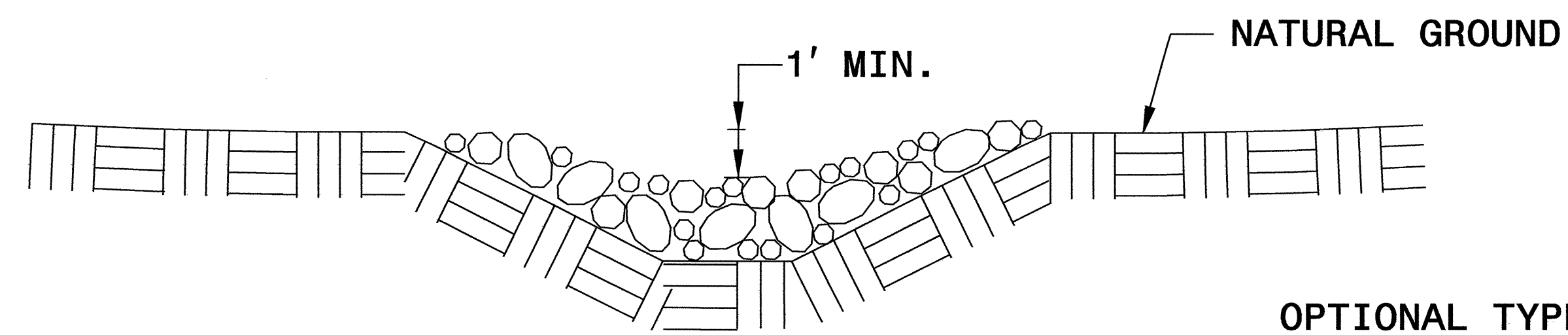
NOTES:

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

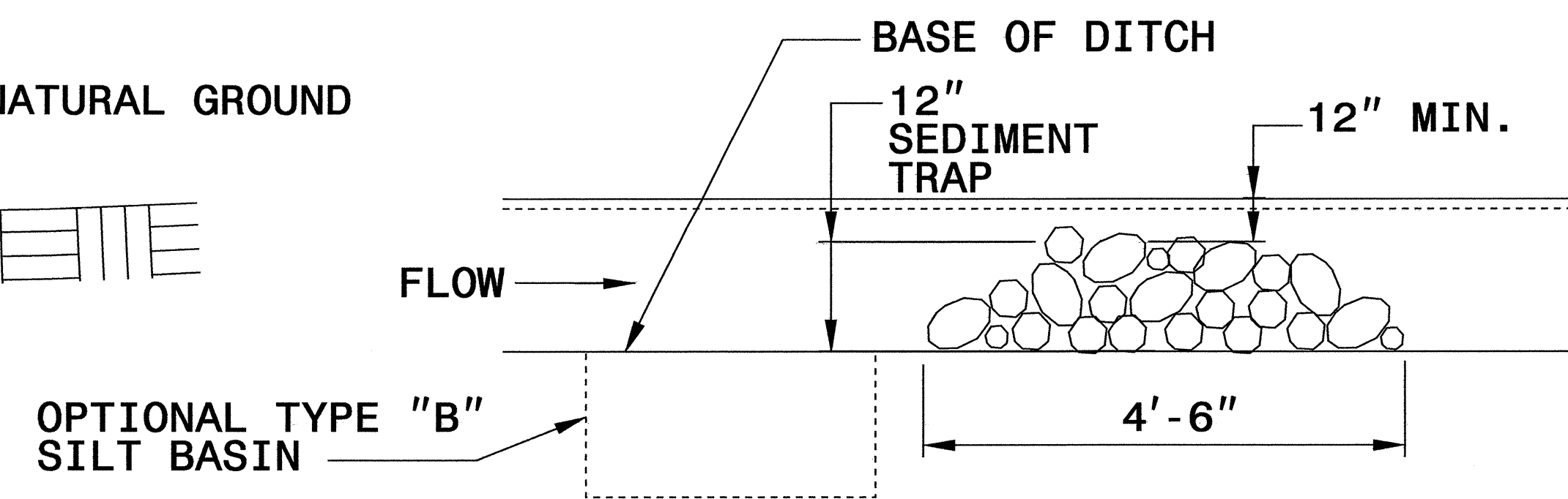
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



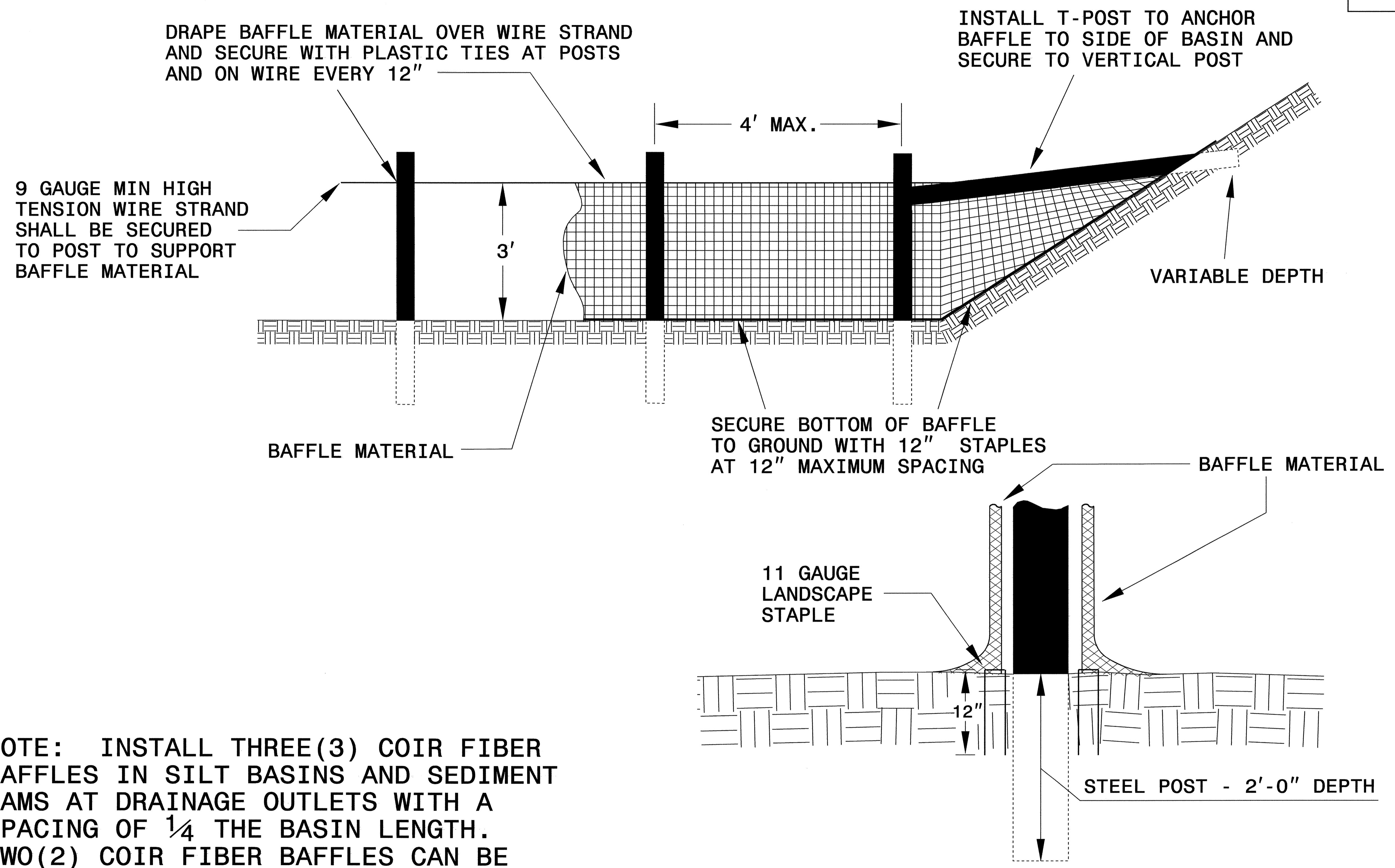
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

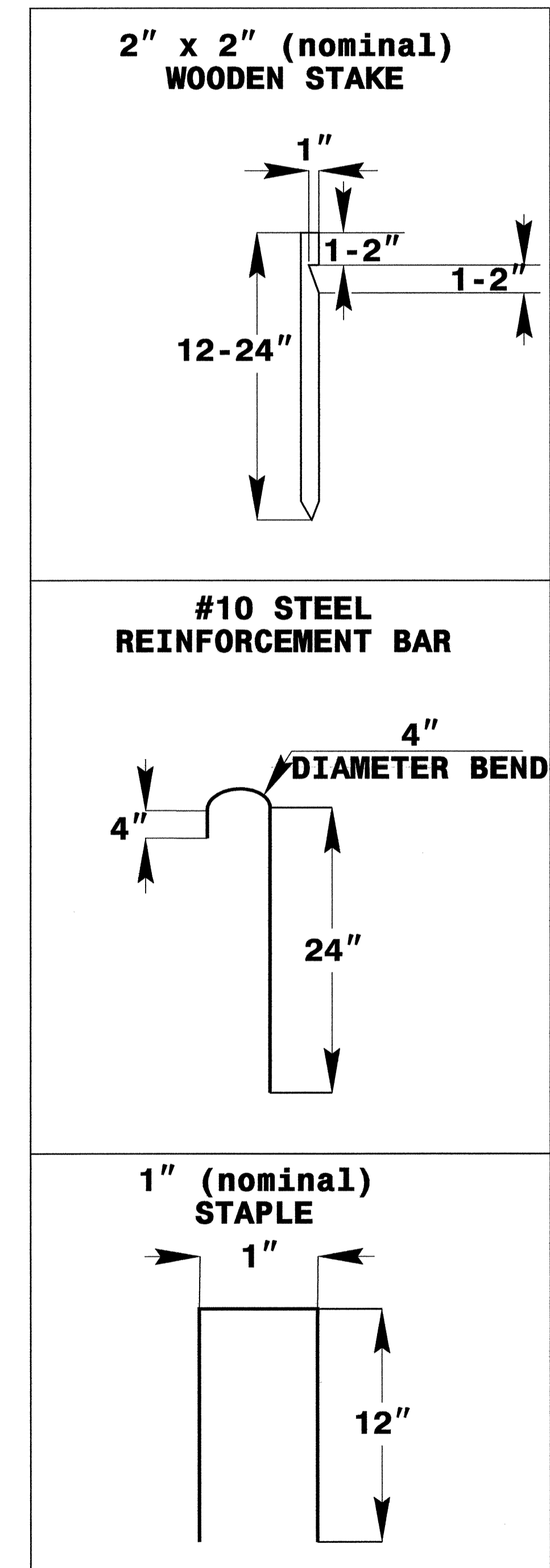
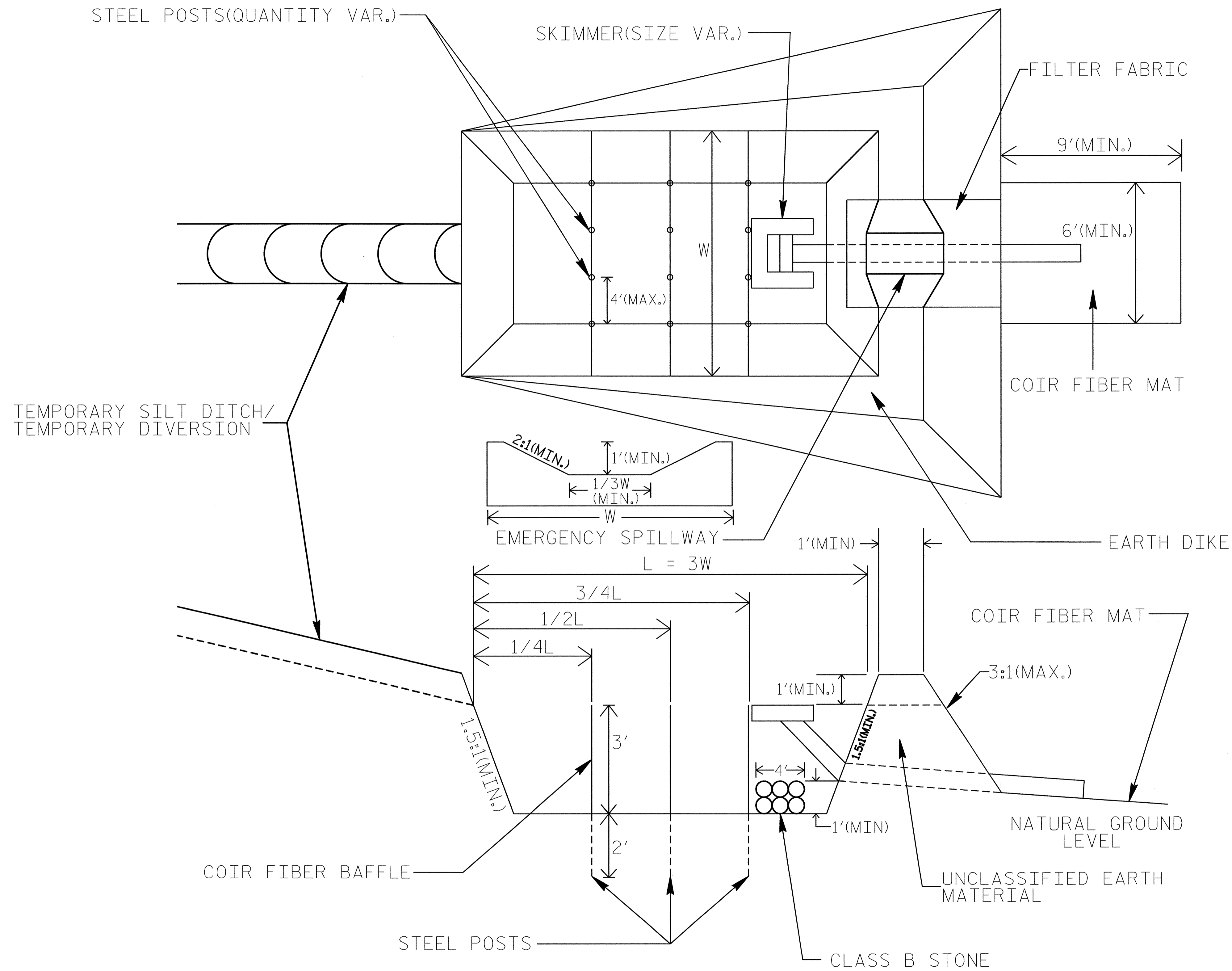


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



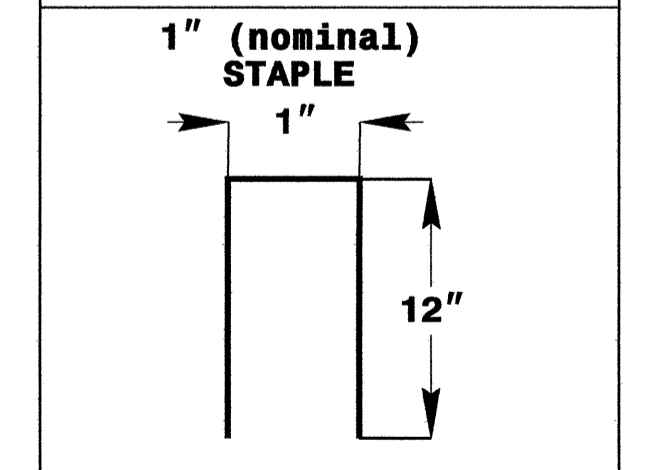
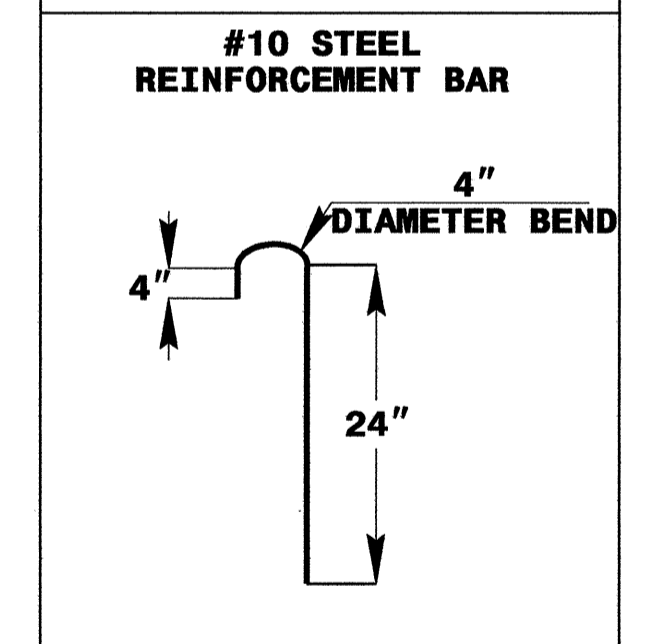
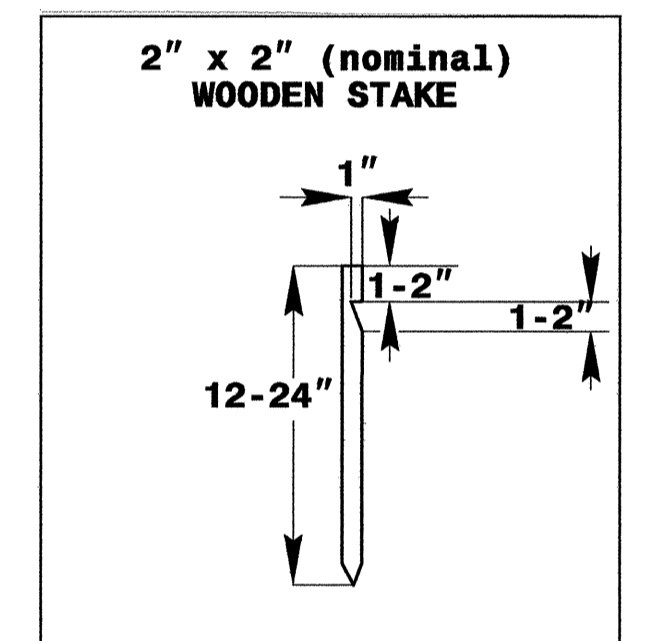
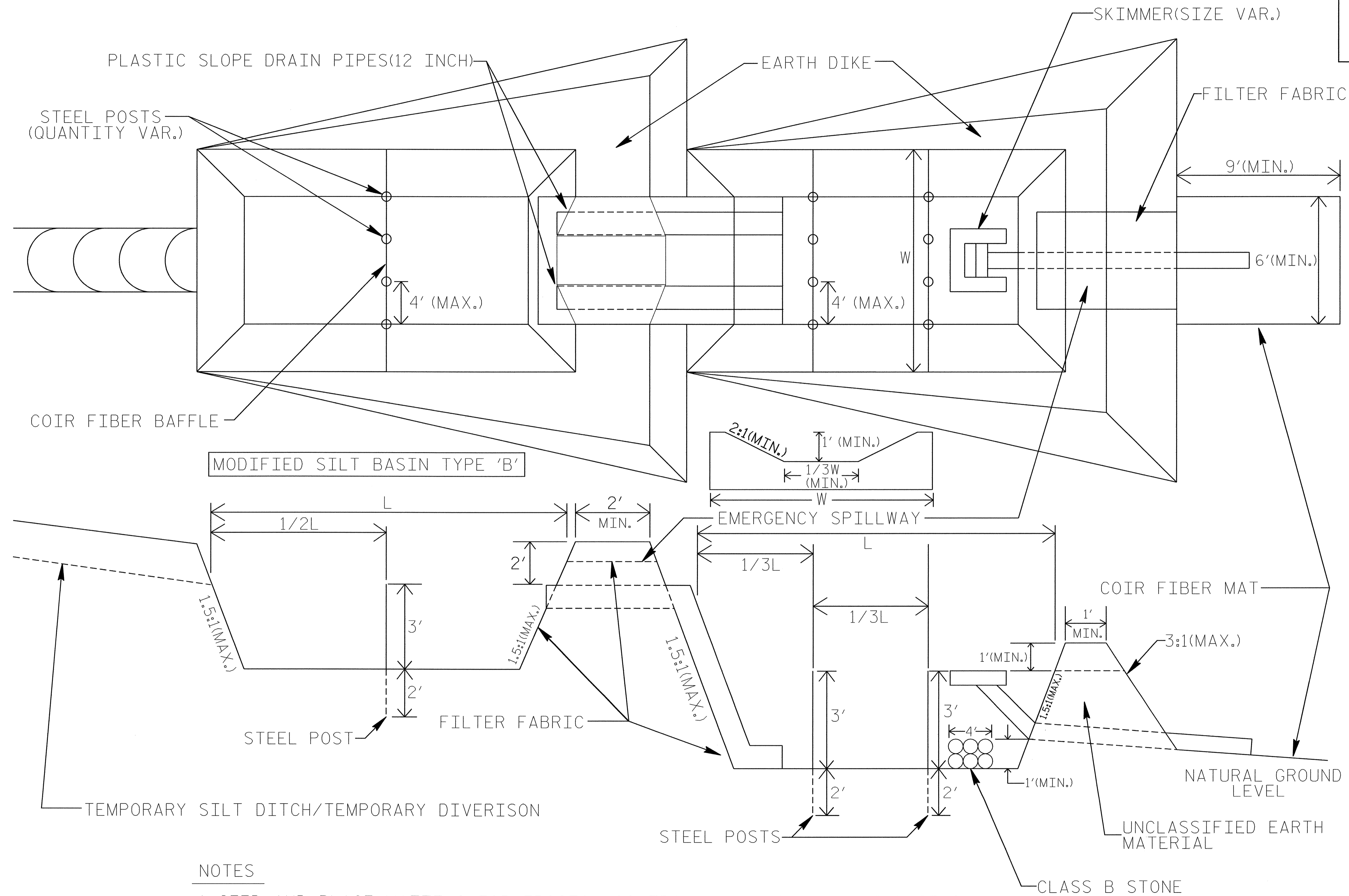
COIR FIBER MAT ANCHOR OPTIONS

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. <i>R-2320G</i>	SHEET NO. <i>EC-2C</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

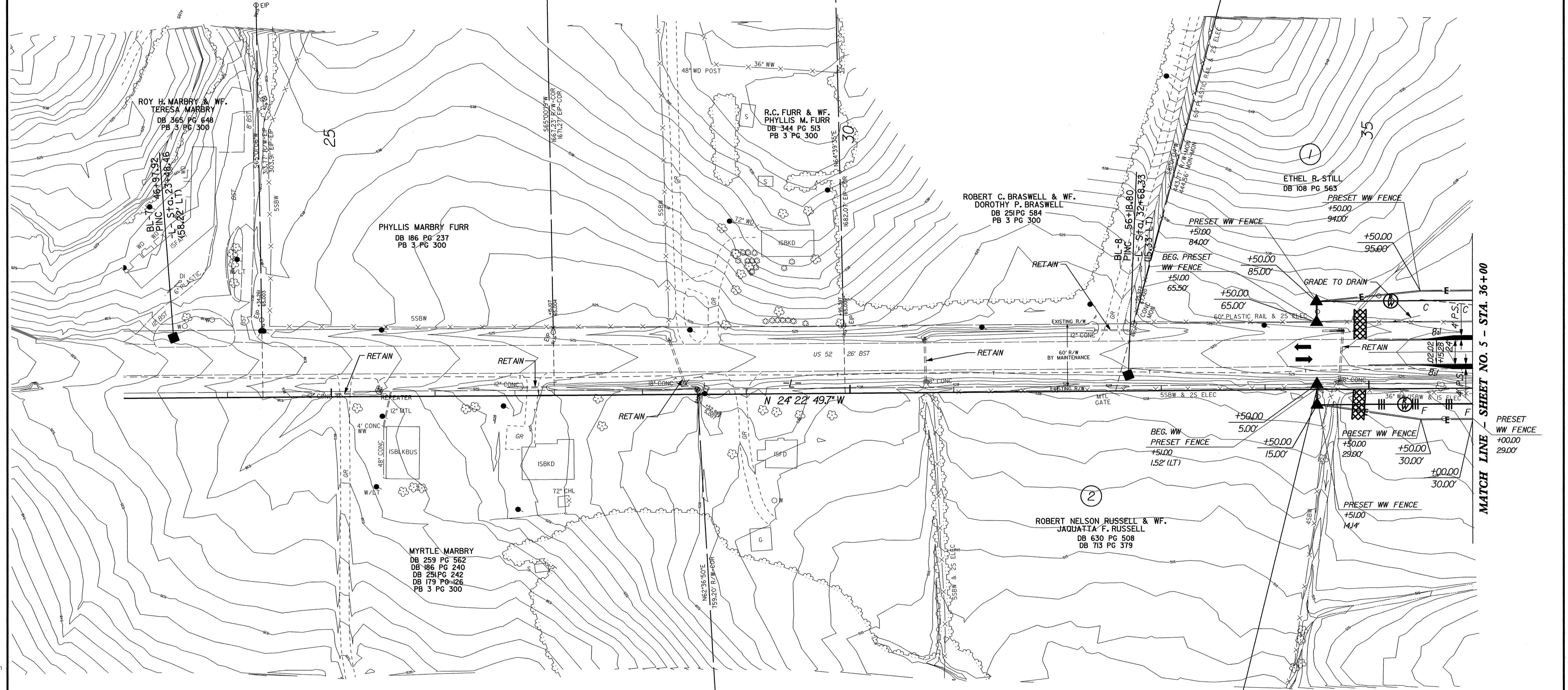
NOTES

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.	SHEET NO.
R-2320G	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.



MATCH LINE SHEET NO. 5 - STA. 36+00

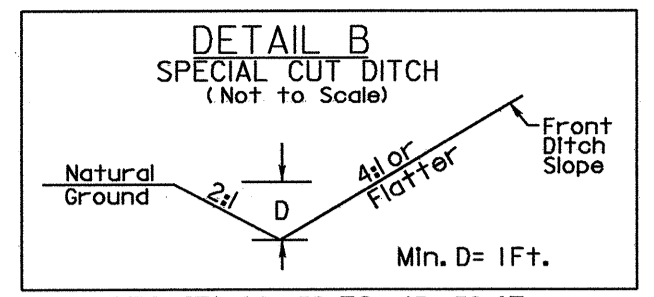
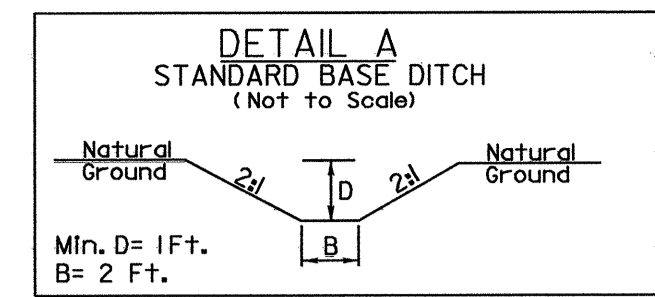
BEGIN TIP PROJECT R-2320G
BEGIN CONSTRUCTION
-L- STA. 34+50

SEE SHEET NO. 22 FOR -L- PROFILE

8/17/99

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I:\env\pcomm\11-2320g\2320g-reu.psh.04.dgn
ALL RIGHTS RESERVED

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-5/CONST.5
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

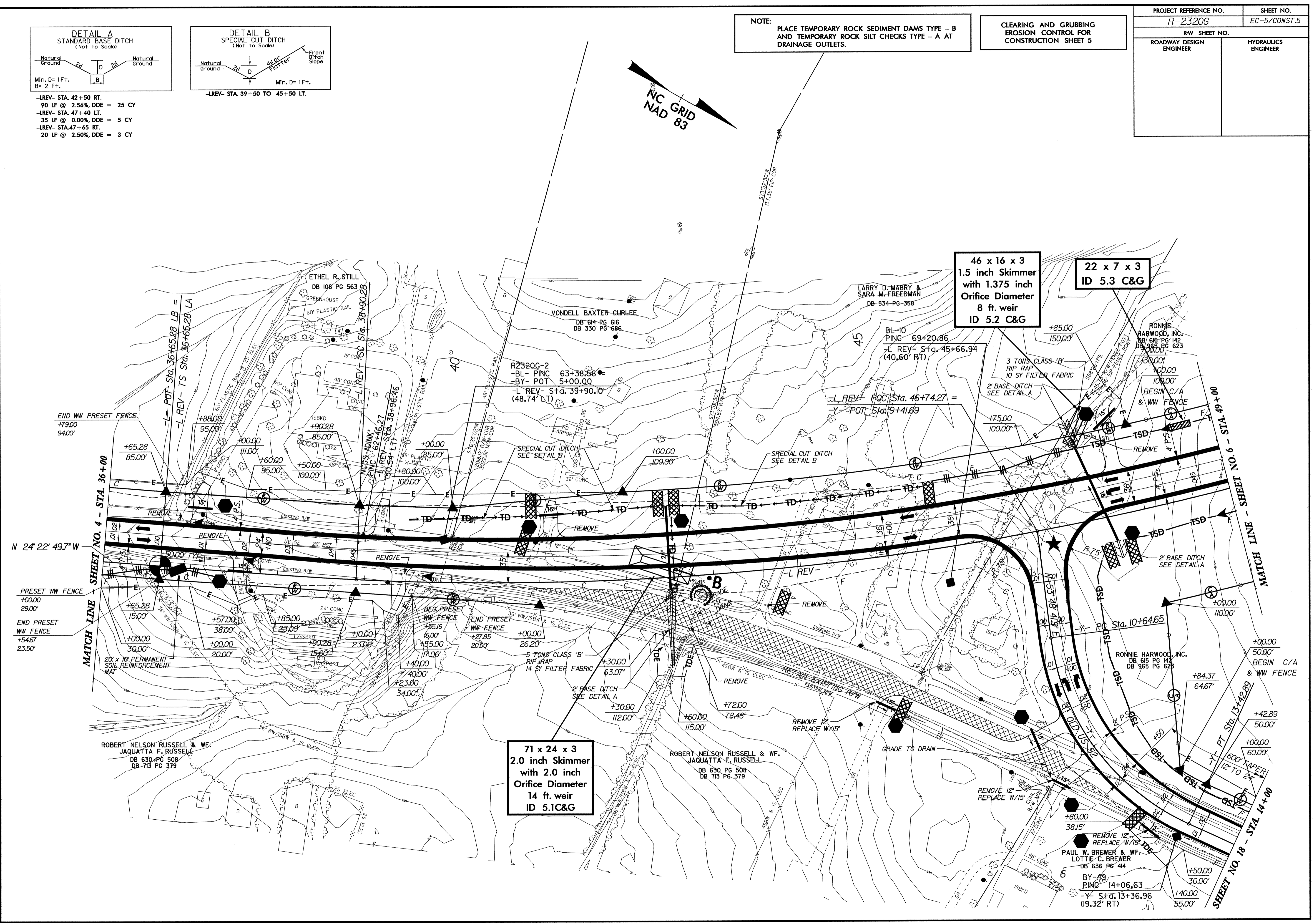
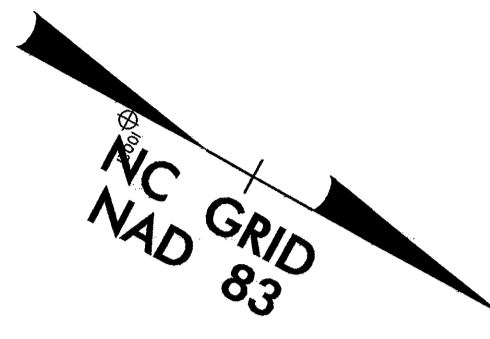


-LREV- STA. 42+50 RT.
90 LF @ 2.56%, DDE = 25 CY
-LREV- STA. 47+40 LT.
35 LF @ 0.00%, DDE = 5 CY
-LREV- STA. 47+65 RT.
20 LF @ 2.50%, DDE = 3 CY

-LREV- STA. 39+50 TO 45+50 LT.

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 5



46 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
8 ft. weir
ID 5.2 C&G

22 x 7 x 3
ID 5.3 C&G

71 x 24 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
14 ft. weir
ID 5.1C&G

8/17/09

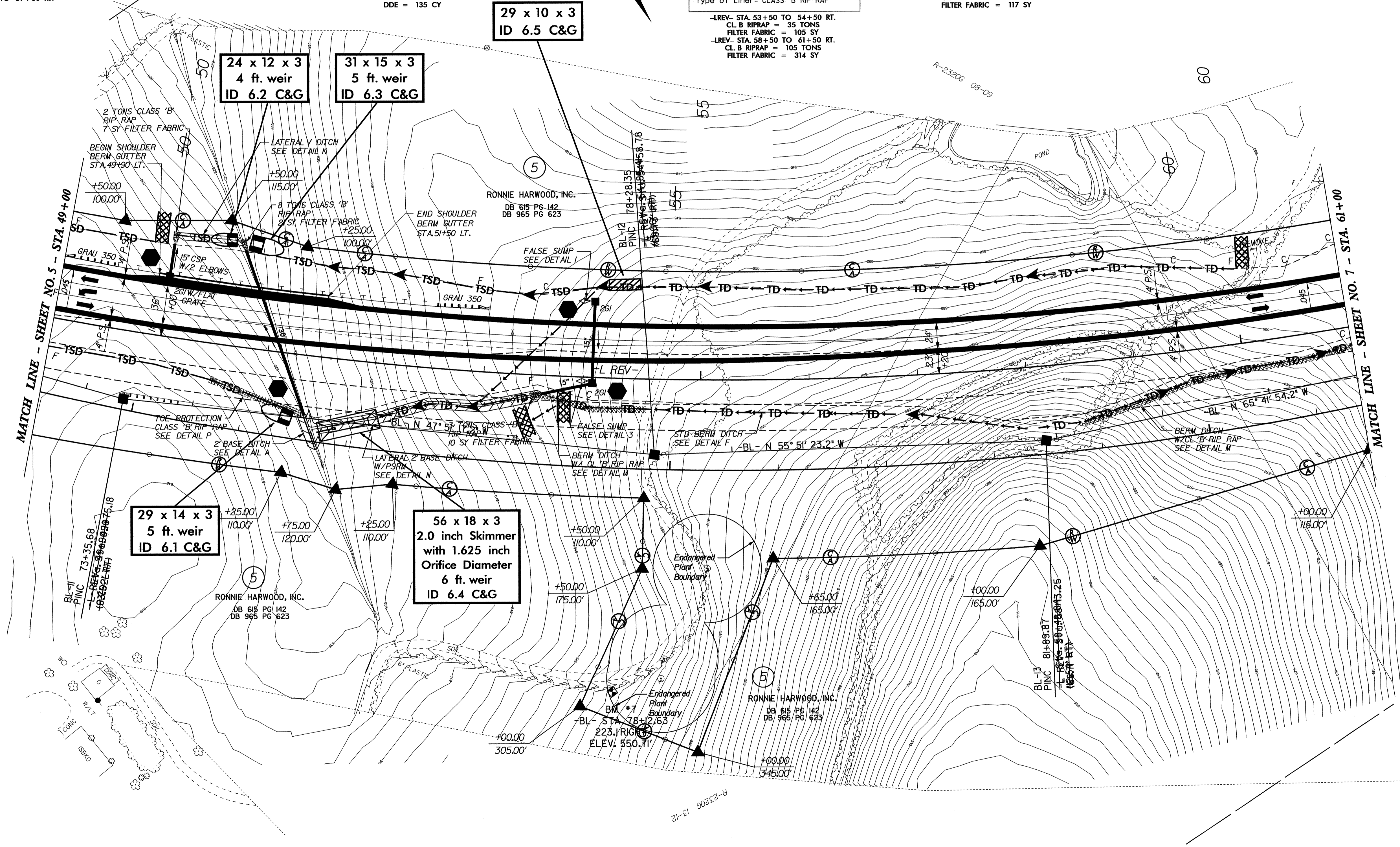
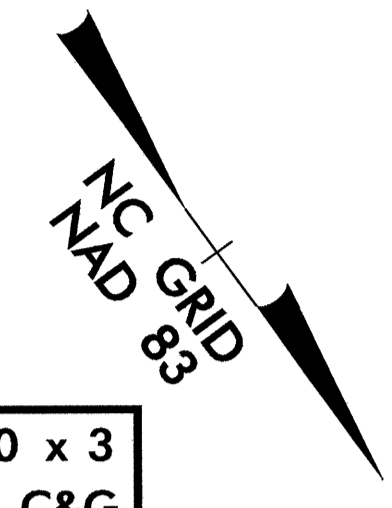
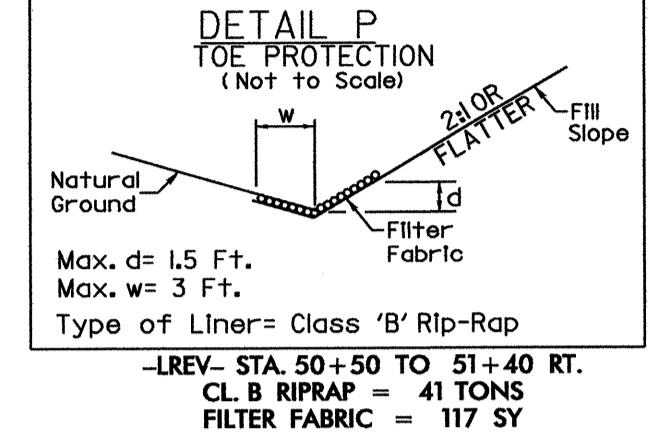
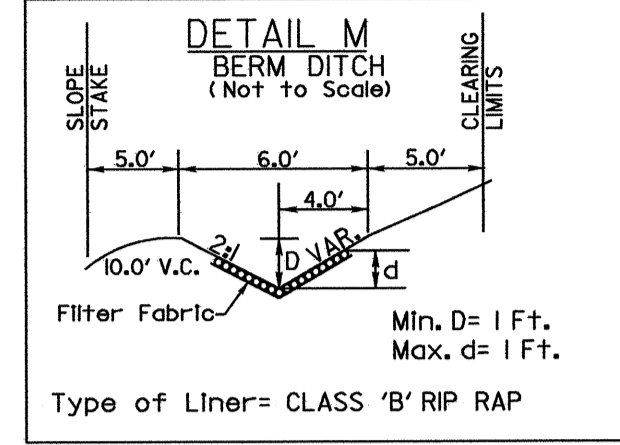
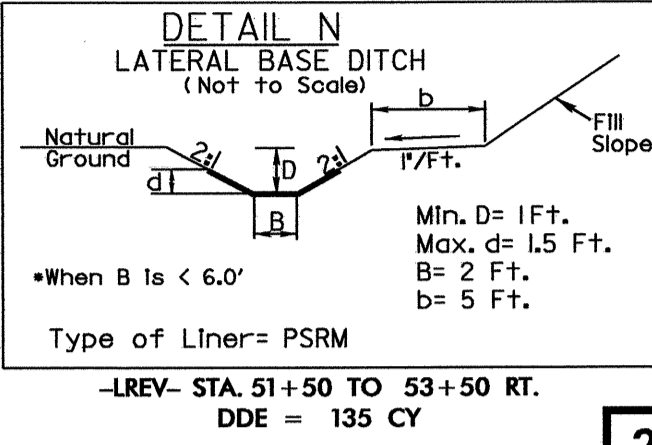
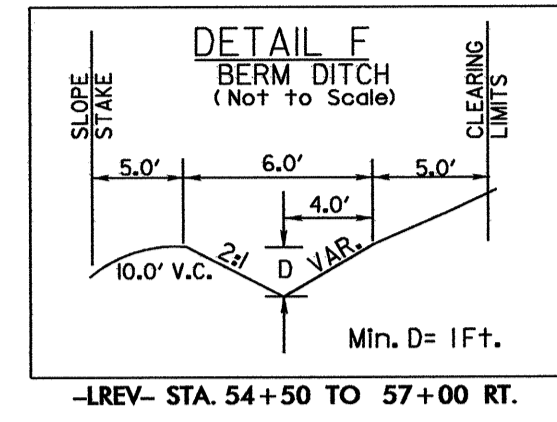
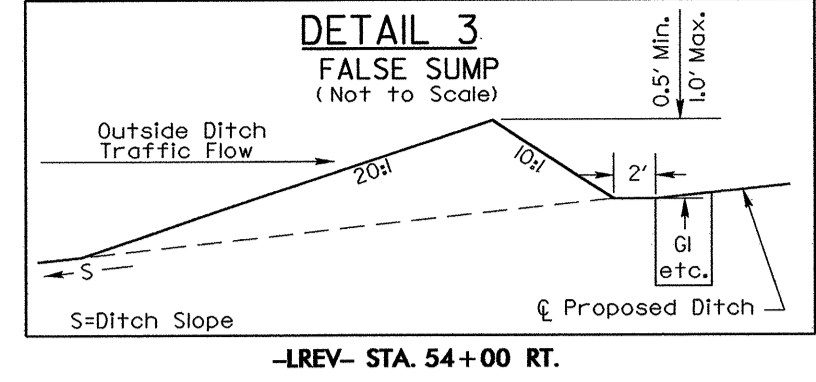
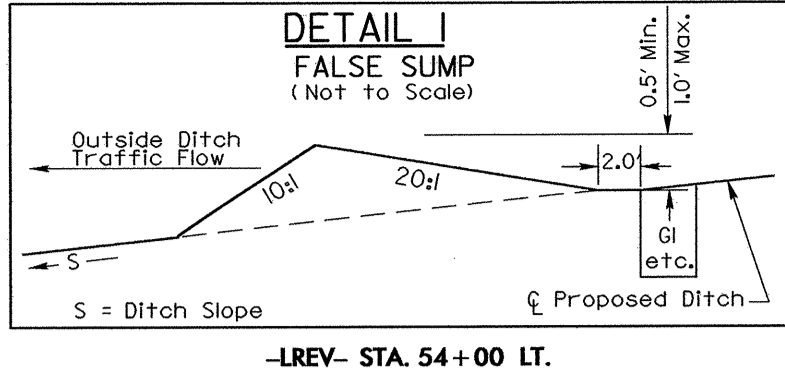
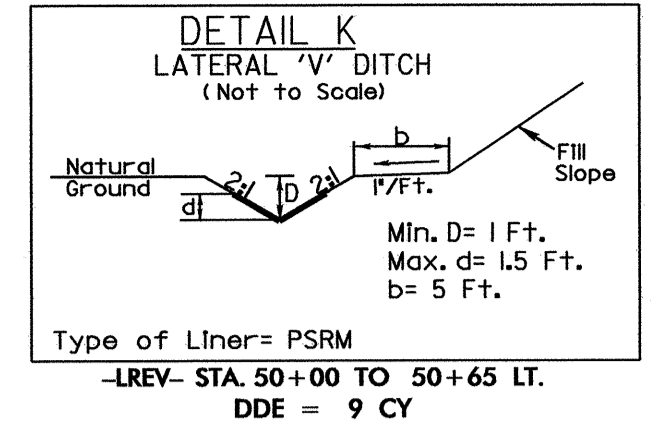
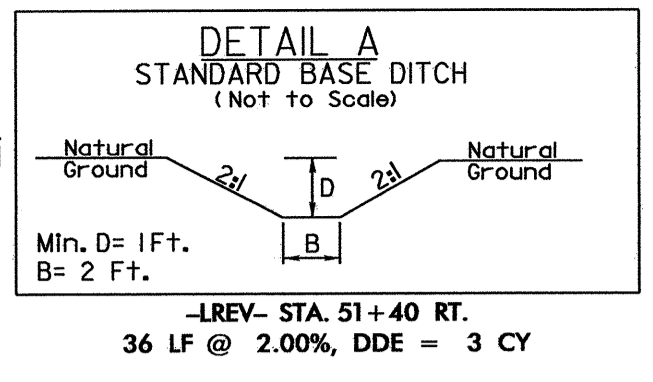
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PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

LARRY D. MABRY &
SARA M. FREEDMAN
DB 534 PG 358

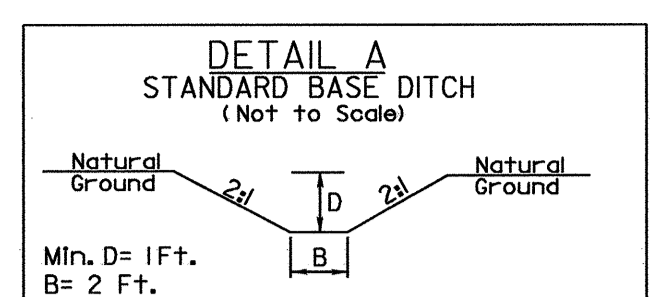


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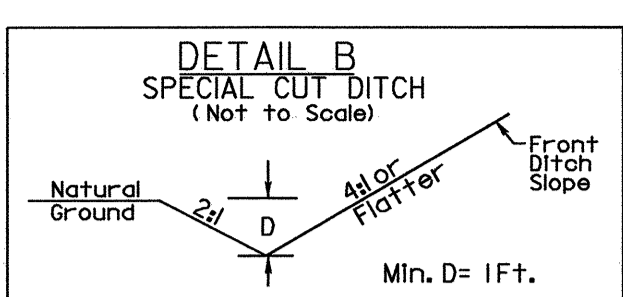
PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-7/CONST.7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

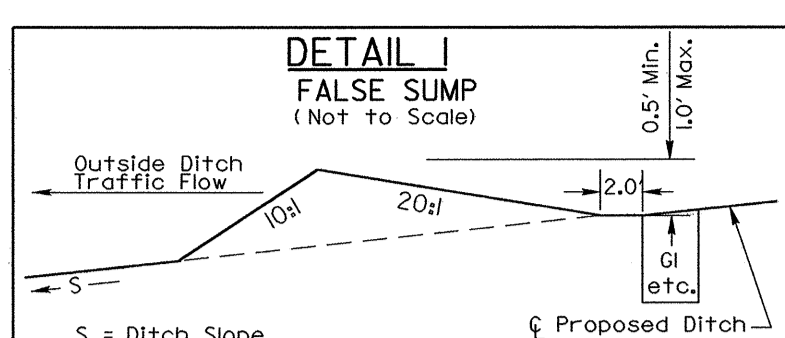
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



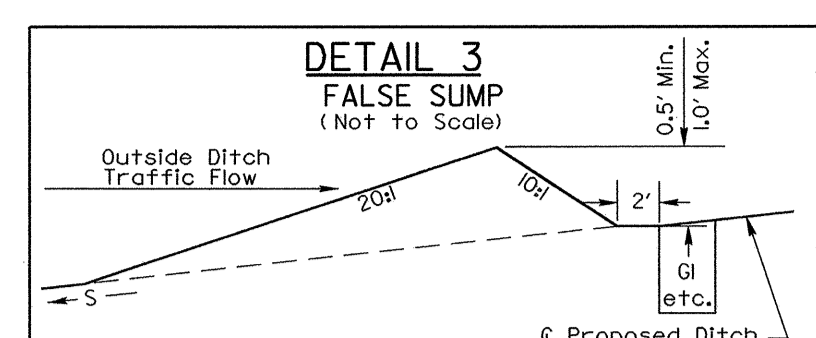
Min. D= 1Ft.
B= 2 Ft.
-LREV- STA. 61+95 RT.
30 LF @ 3.0%, DDE = 3 CY
-LREV- STA. 68+15 RT.
75 LF @ 3.7%, DDE = 10 CY
-LREV- STA. 69+00 LT.
160 LF @ 0.2%, DDE = 25 CY
-LREV- STA. 72+40 TO 72+75 LT.
35 LF @ 0.25%, DDE = 15 CY



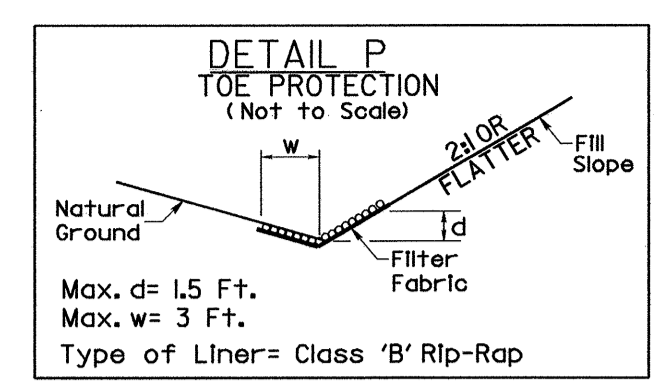
Min. D= 1Ft.
-LREV- STA. 62+70 TO 66+50 LT.
-LREV- STA. 67+00 TO 68+00 RT.



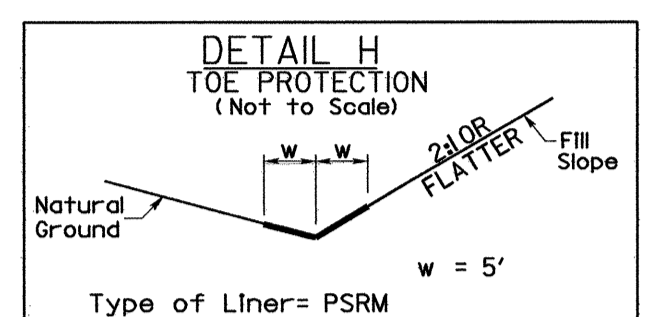
-LREV- STA. 69+00 RT.
-LREV- STA. 69+50 LT.



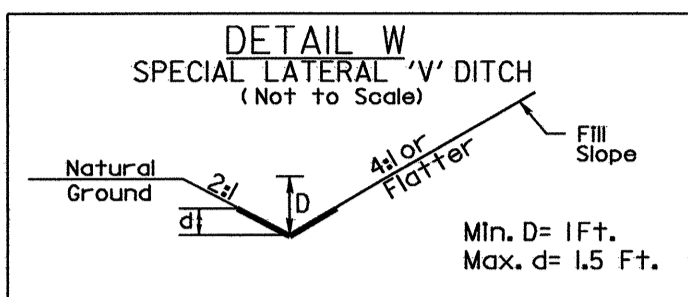
-LREV- STA. 72+20 LT.



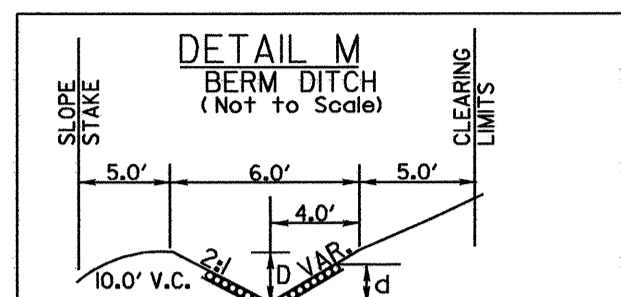
Max. d= 1.5 Ft.
Max. w= 3 Ft.
Type of Liner= Class 'B' Rip-Rap
-LREV- STA. 73+50 TO 76+00 RT.
CL B RIPRAP = 115 TONS
FILTER FABRIC = 325 SY



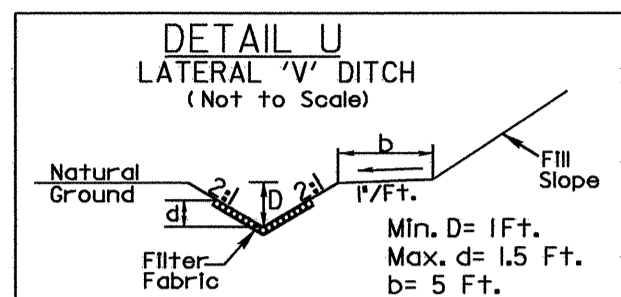
Type of Liner= PSRM
-LREV- STA. 61+35 TO 62+35 LT.



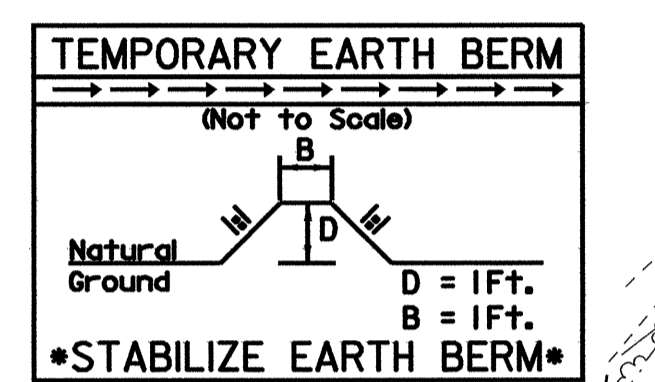
Type of Liner= PSRM
-LREV- STA. 61+00 TO 61+50 RT.



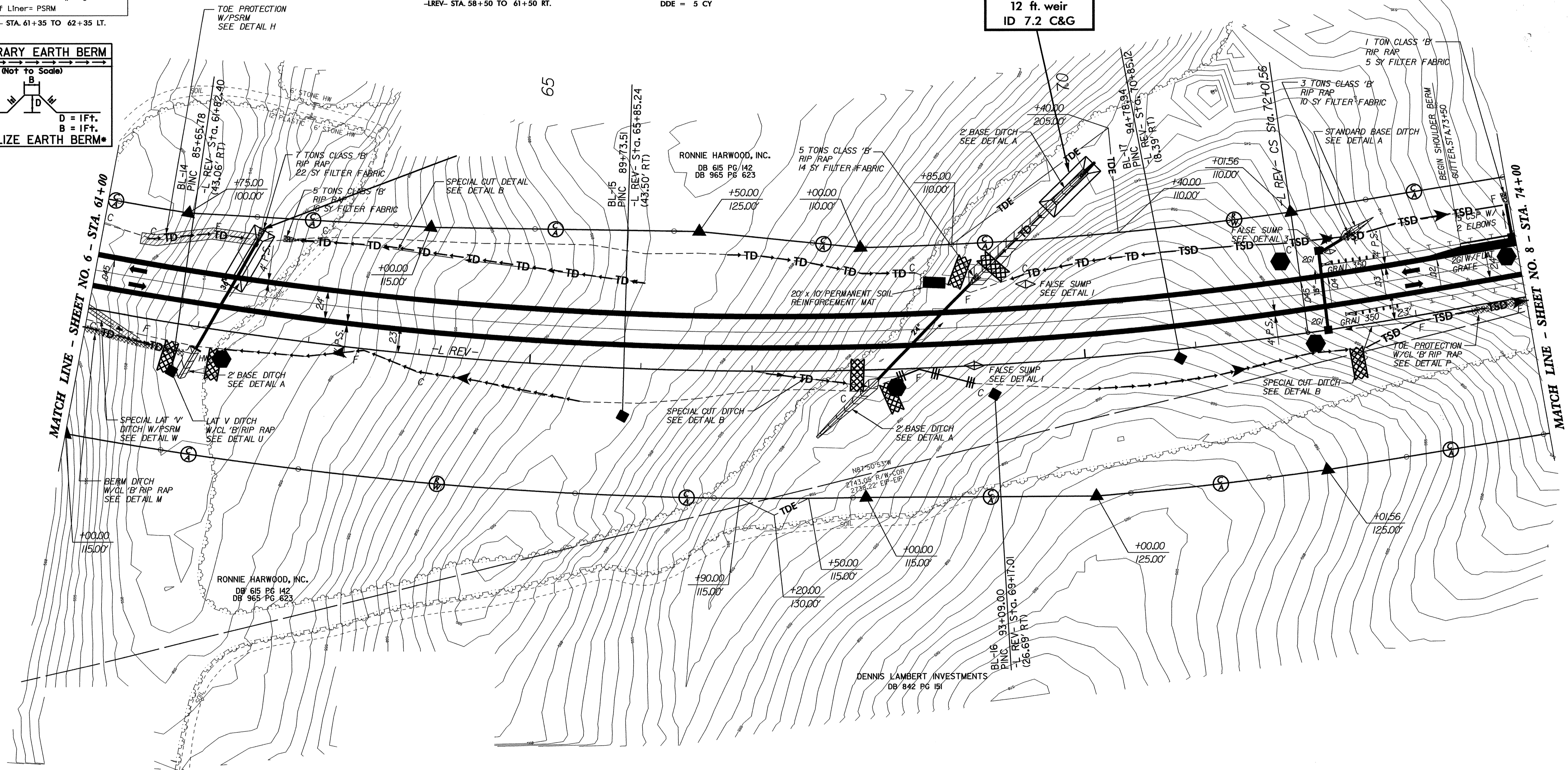
Min. D= 1 Ft.
Max. d= 1 Ft.
Type of Liner= CLASS 'B' RIP RAP
-LREV- STA. 58+50 TO 61+50 RT.



Type of Liner= Class 'B' Rip-Rap
-LREV- STA. 61+50 TO 61+95 RT.
CL B RIPRAP = 21 TONS
FILTER FABRIC = 58 SY
DDE = 5 CY



STABILIZE EARTH BERM



59 x 19 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
12 ft weir
ID 7.2 C&G

NAD 83

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11/23/07

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-8/CONST.B
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN 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.

RAMONA H. SPEIGHT
DB 158 PG 202
DB 357 PG 705

BETTY PENNINGTON MASON
DB 582 PG 554

RAMONA H. SPEIGHT
DB 700 PG 144
DB 357 PG 705

BEGIN CONSTRUCTION
-Y3- STA 13+00

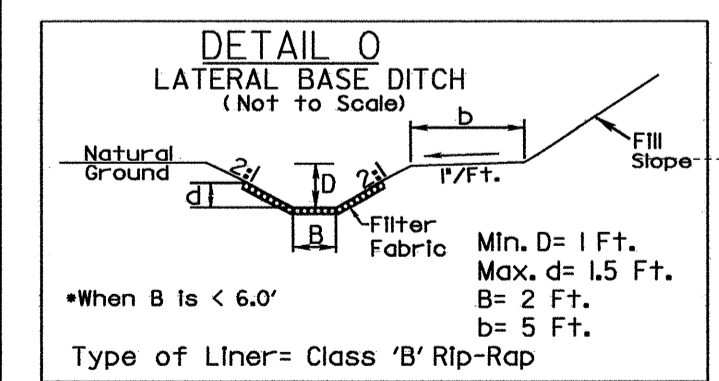
48 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
ID 8.3 C&G

40 x 12 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
4 ft. weir
ID 8.2 C&G

23 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
12 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.1 C&G

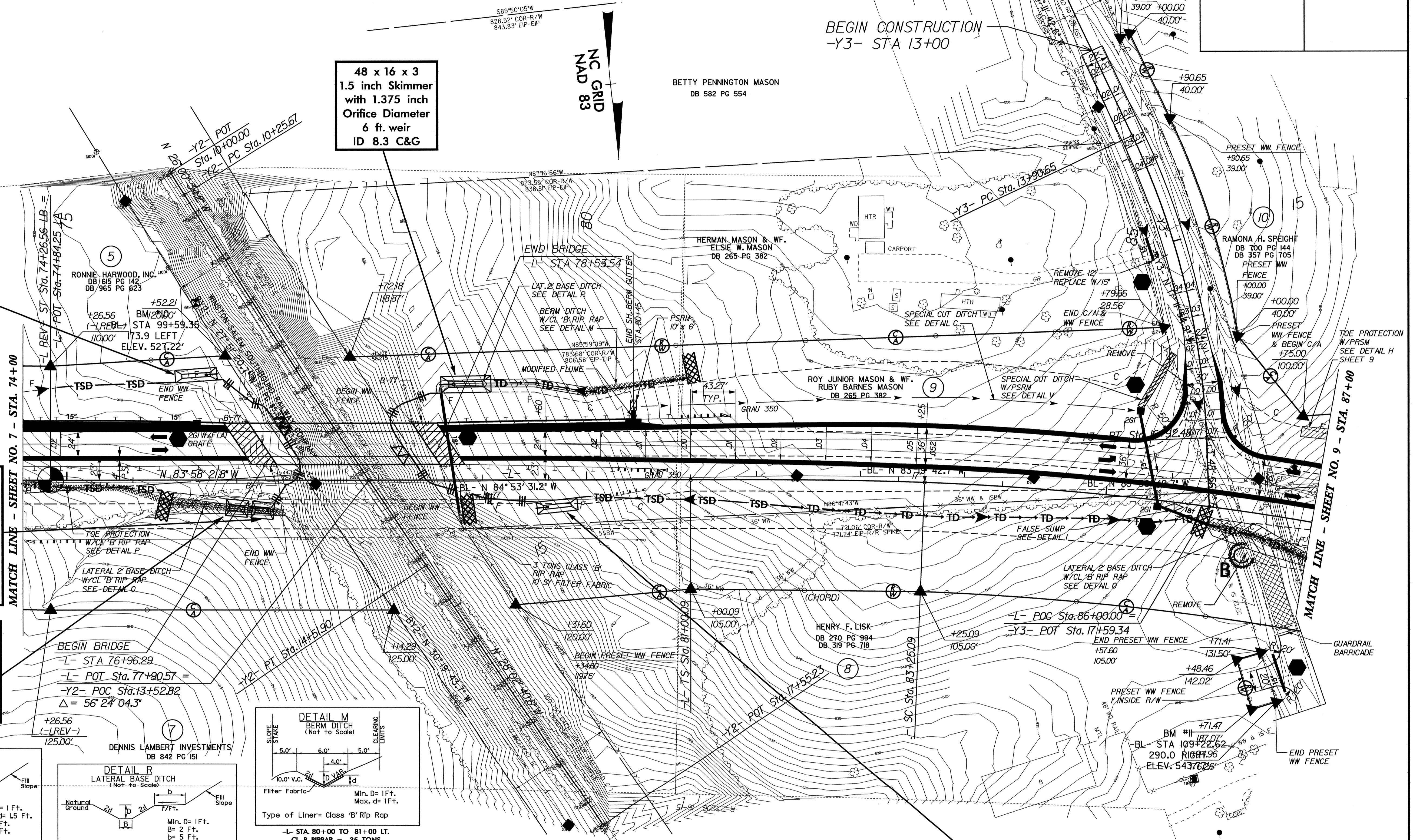
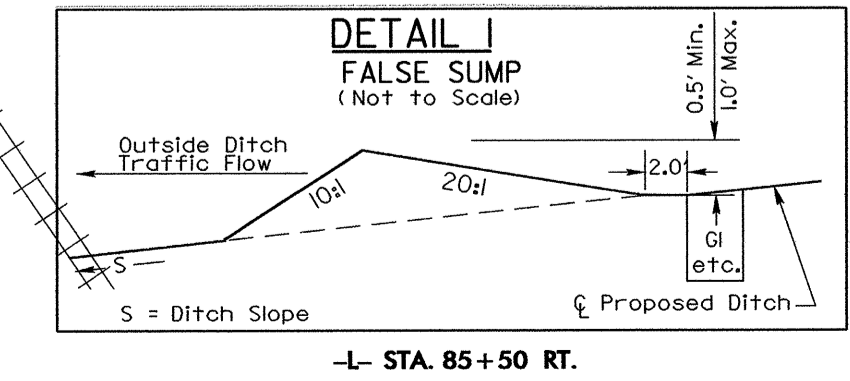
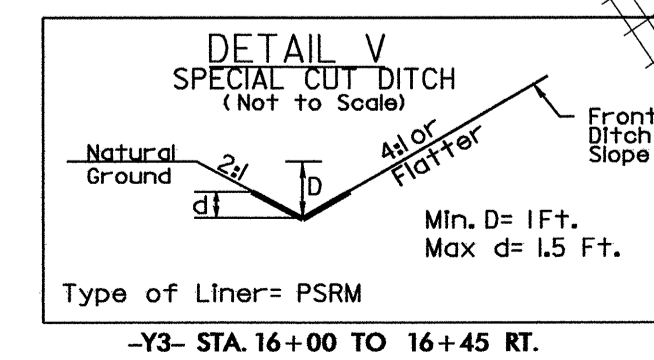
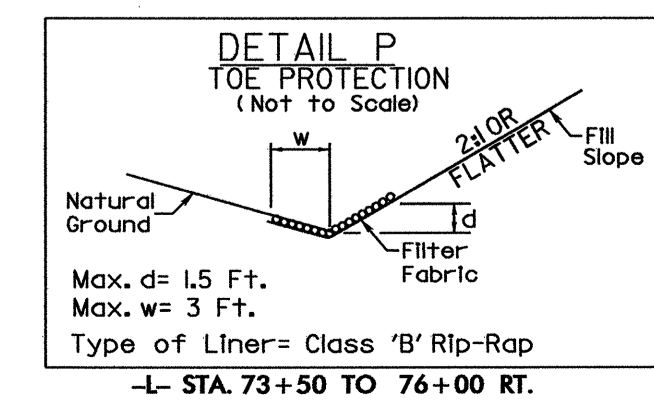
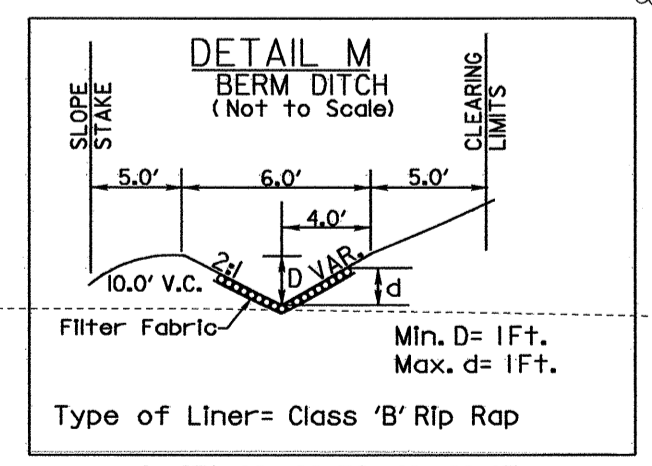
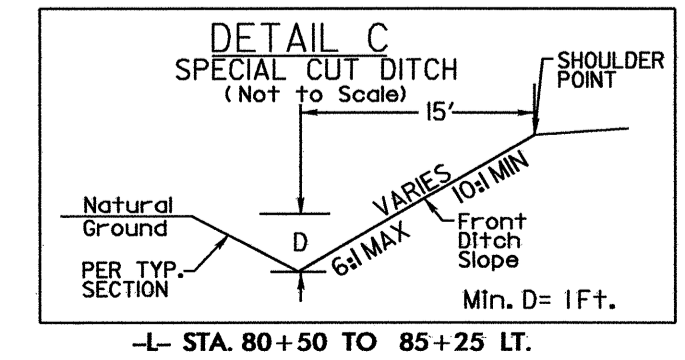
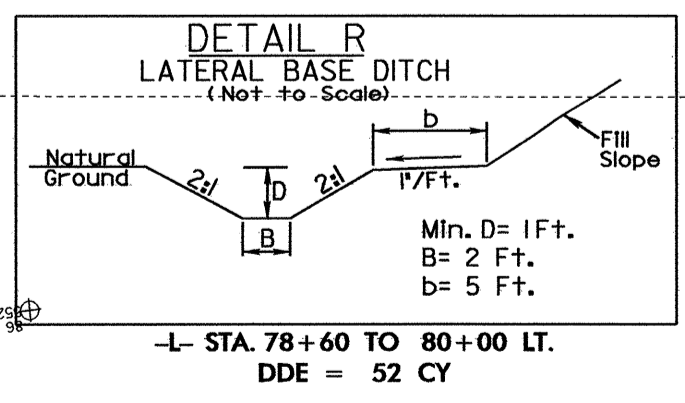
Modified Silt Basin
Type 'B'
23 x 16 x 3
(See Tiered Skimmer
Basin Detail)
ID 8.1

39 x 12 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
4 ft. weir
ID 8.4 C&G



-L- STA. 76+00 TO 77+10 RT.
CL B RIPRAP = 62 TONS
FILTER FABRIC = 167 SY
DDE = 75 CY

-L- STA. 86+00 TO 87+00 RT.
CL B RIPRAP = 56 TONS
FILTER FABRIC = 152 SY
DDE = 278 CY

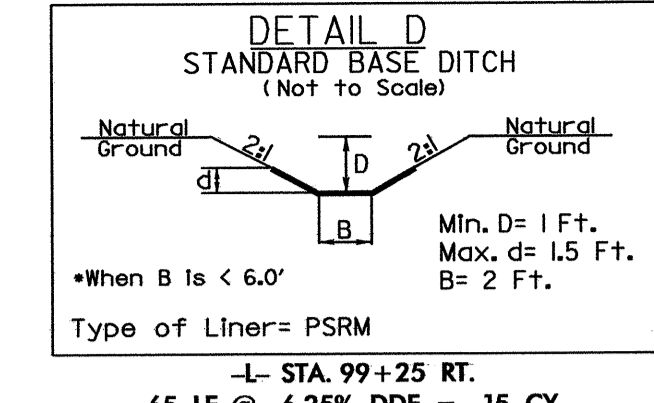
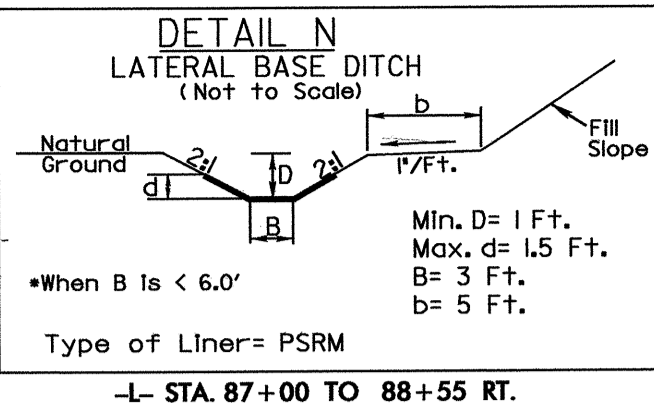
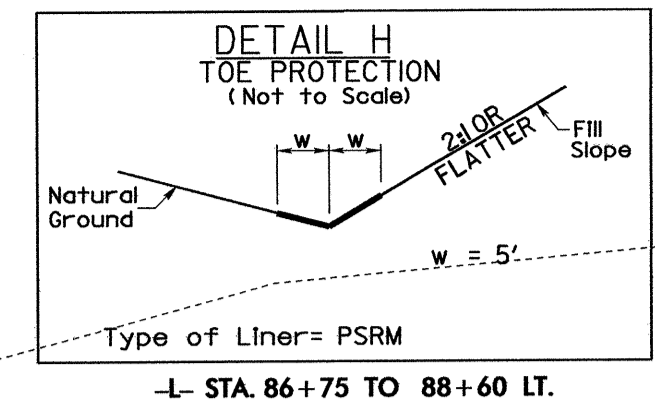
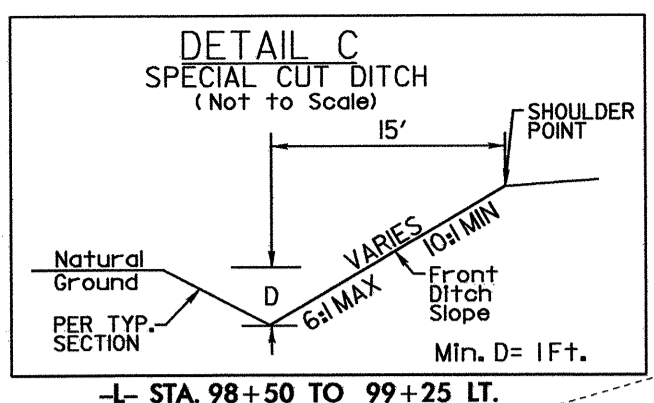


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Printer: AL

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-9/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

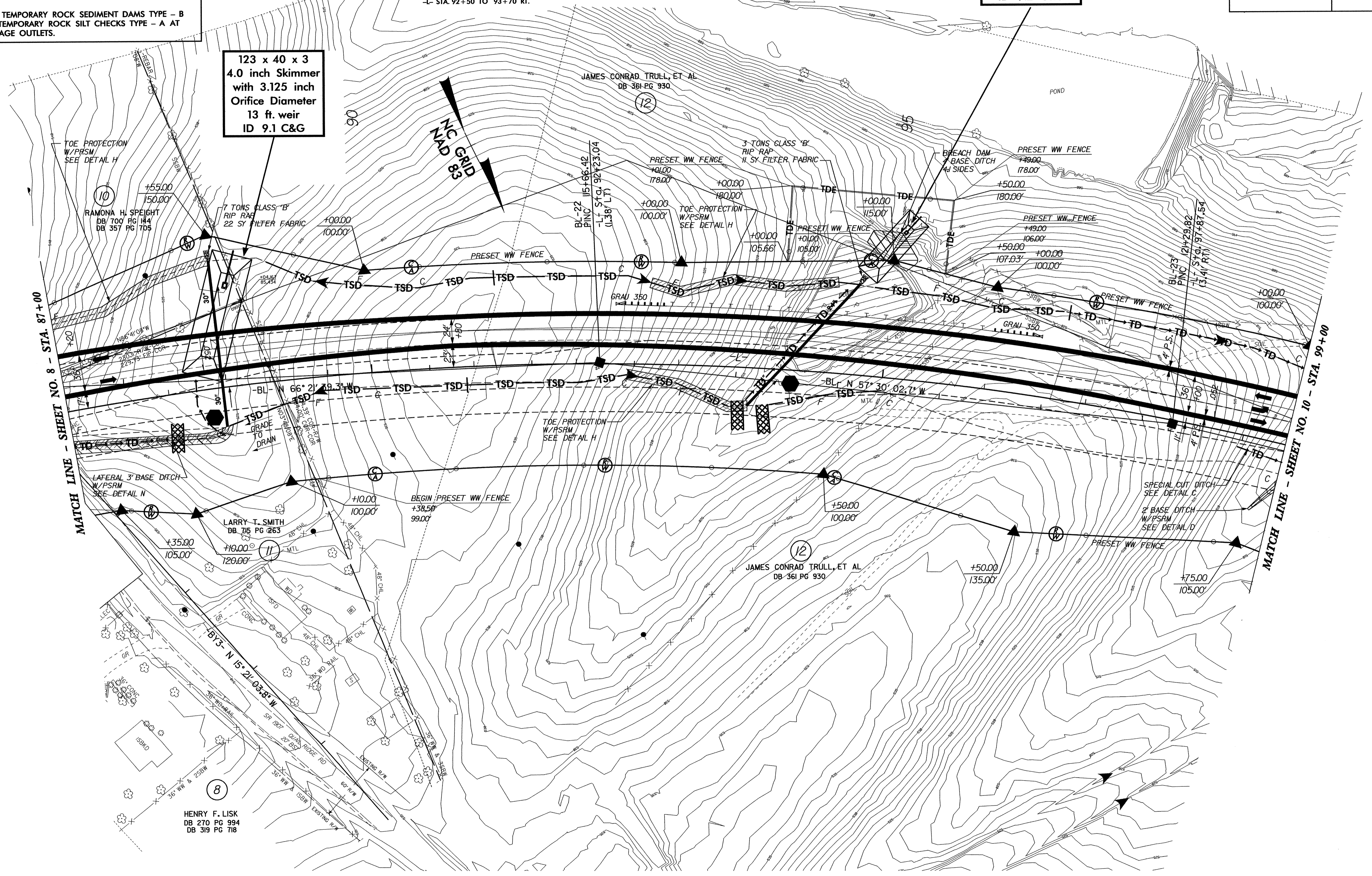
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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



75 x 25 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
14 ft. weir
ID 9.2 C&G

123 x 40 x 3
4.0 inch Skimmer
with 3.125 inch
Orifice Diameter
13 ft. weir
ID 9.1 C&G



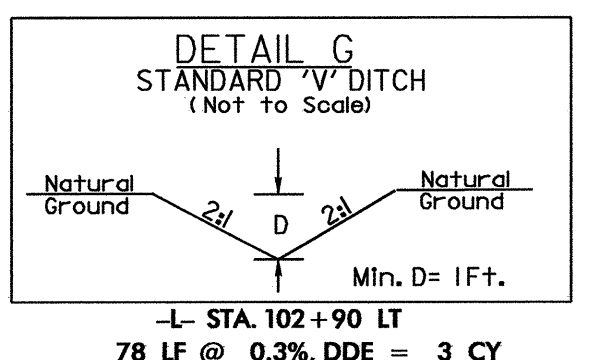
SEE SHEET NO. 27 FOR -L- PROFILE

8/17/99

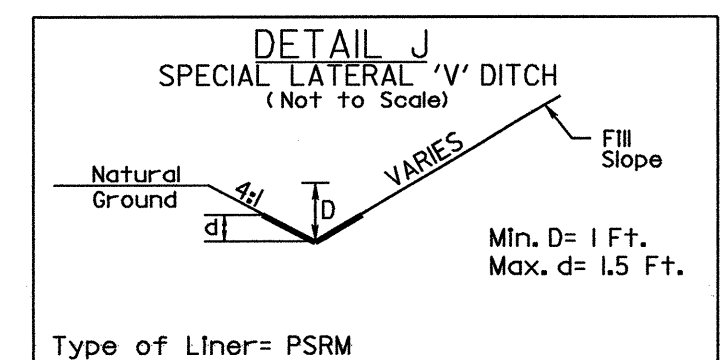
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**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10**

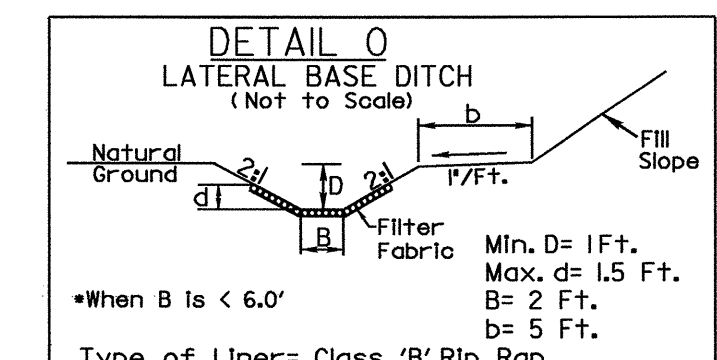
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



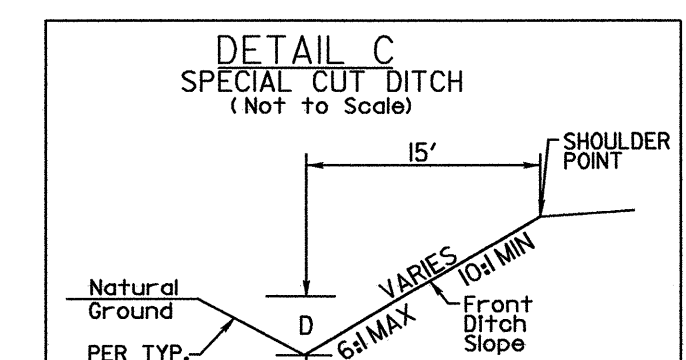
-L- STA. 102+90 LT
78 LF @ 0.3%, DDE = 3 CY



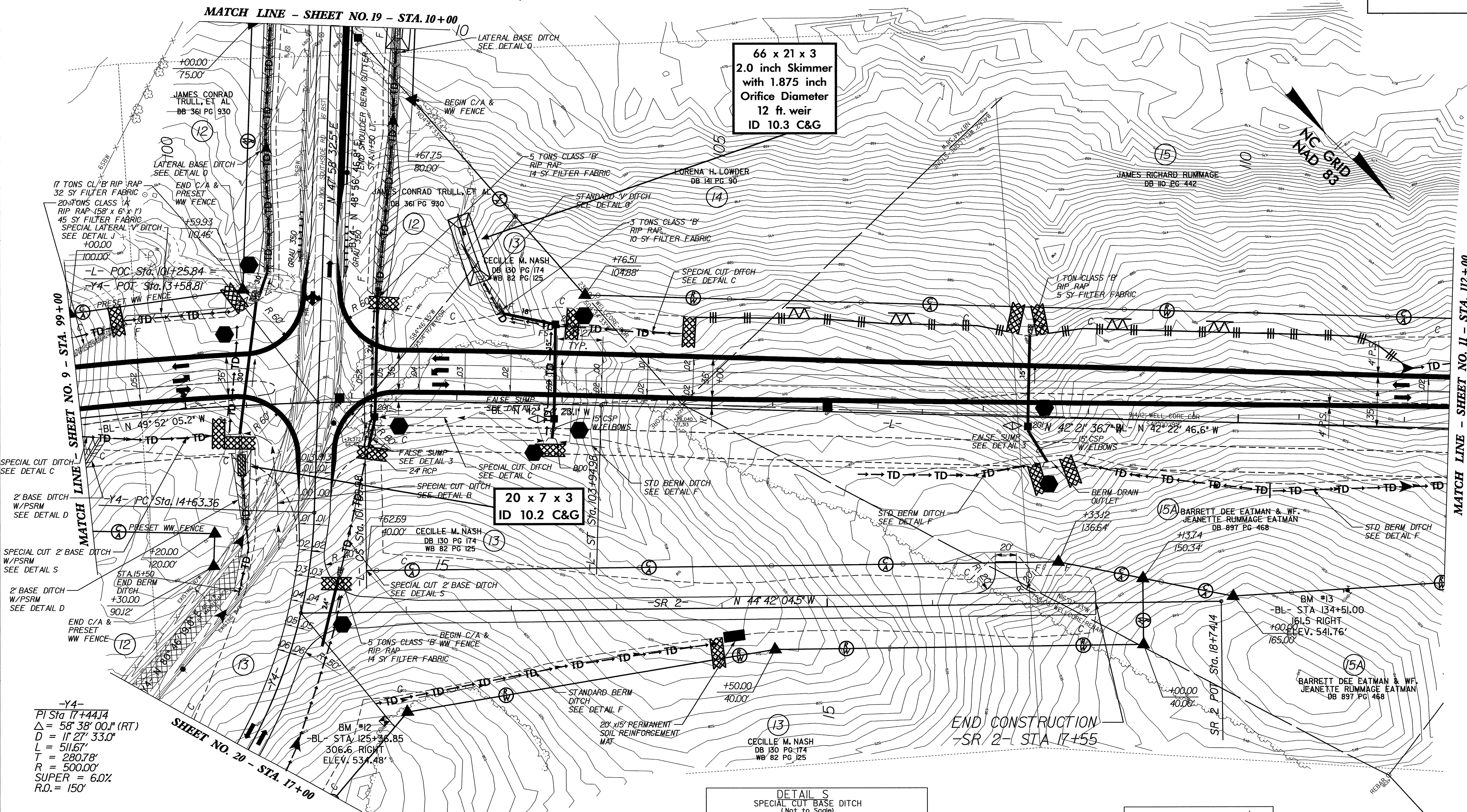
-L- STA. 99+50 TO 100+50 LT.
DDE = 14 CY



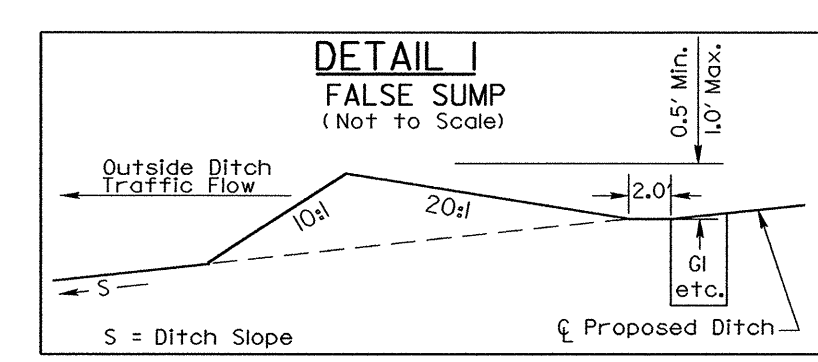
-Y4- STA. 9+05 TO 12+35 RT., CL B RR = 185 TONS
FILTER FABRIC = 500 SY, DDE = 163 CY
-Y4- STA. 9+35 TO 12+55 LT., CL B RR = 180 TONS
FILTER FABRIC = 485 SY, DDE = 306 CY



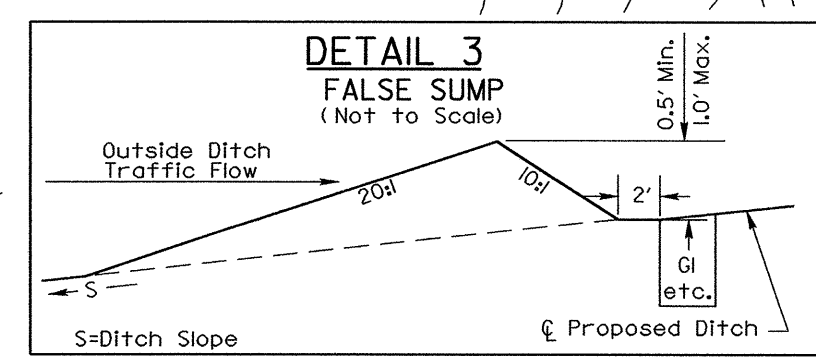
-L- STA. 98+50 TO 99+25 LT.
-L- STA. 103+50 TO 104+50 LT.



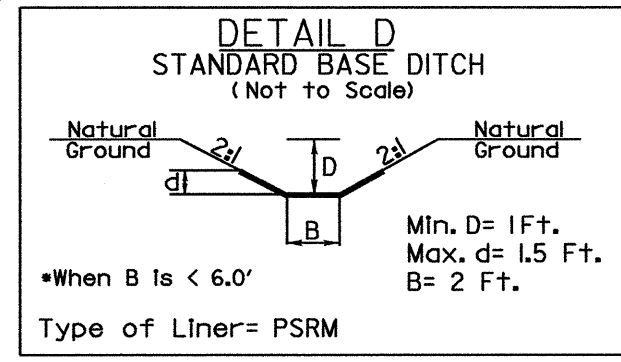
-Y4-
PI Sta 17+44.4
Δ = 58° 38' 00" (RT)
D = 11' 27' 33.0"
L = 511.67'
T = 280.78'
R = 500.00'
SUPER = 6.0%
R.O. = 150'



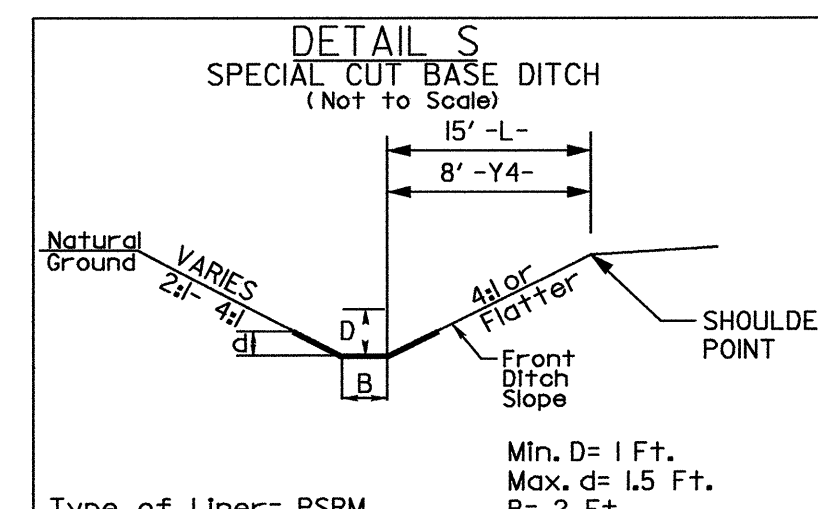
-L- STA. 103+45 LT.



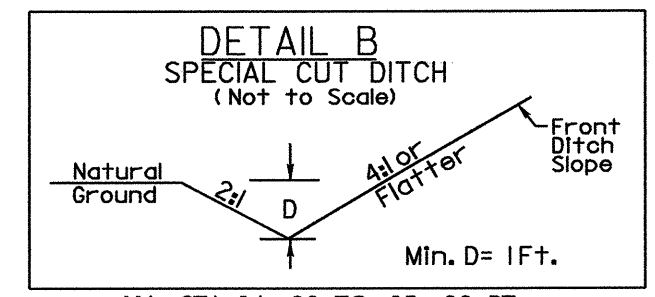
-L- STA. 101+80 RT.
-L- STA. 108+00 RT.



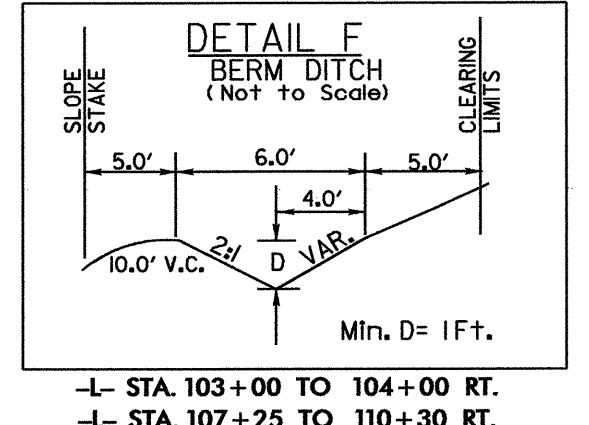
-L- STA. 99+25 RT.
65 LF @ 6.25%, DDE = 15 CY
-L- STA. 100+50 RT.
90 LF @ 10%, DDE = 36 CY



-Y4- STA. 14+00 TO 15+20 LT.
-L- STA. 99+25 TO 100+50 RT.



-Y4- STA. 14+00 TO 15+00 RT.



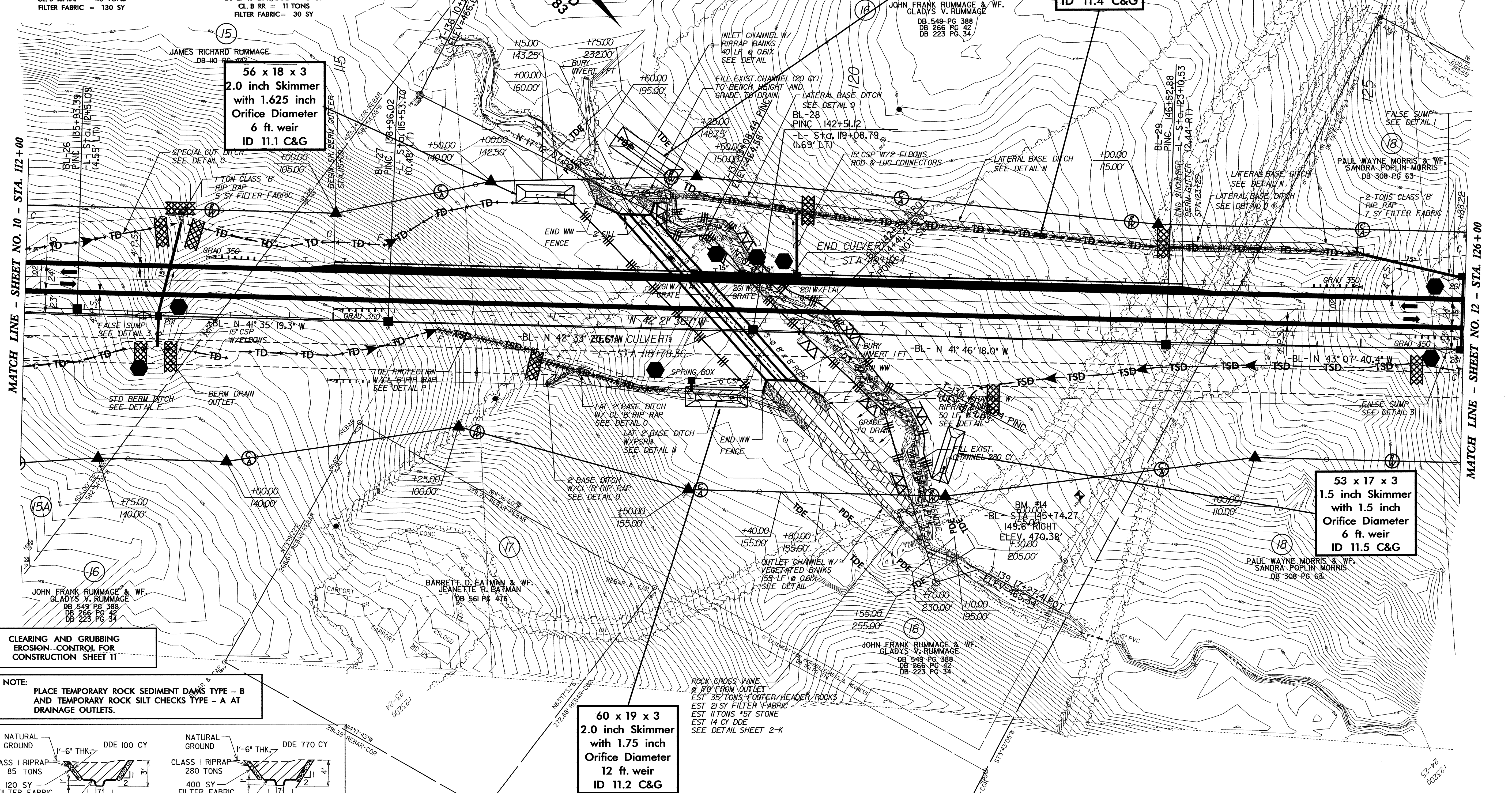
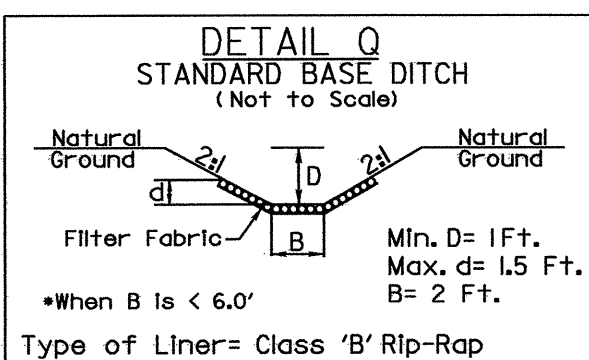
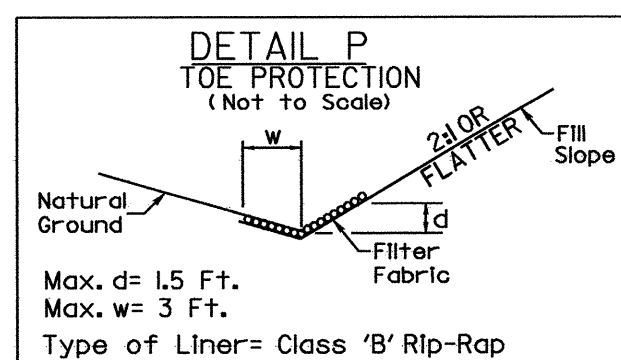
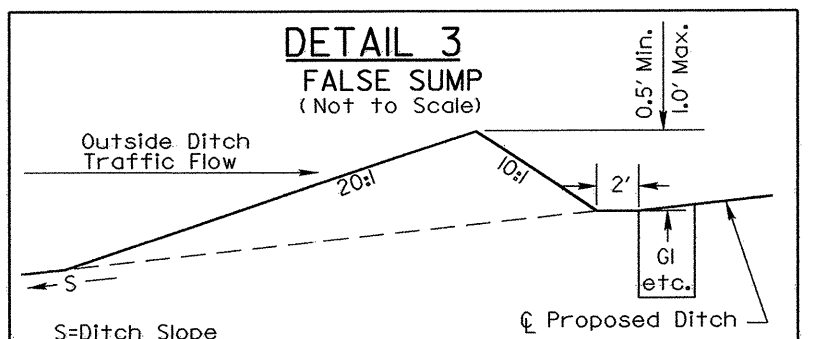
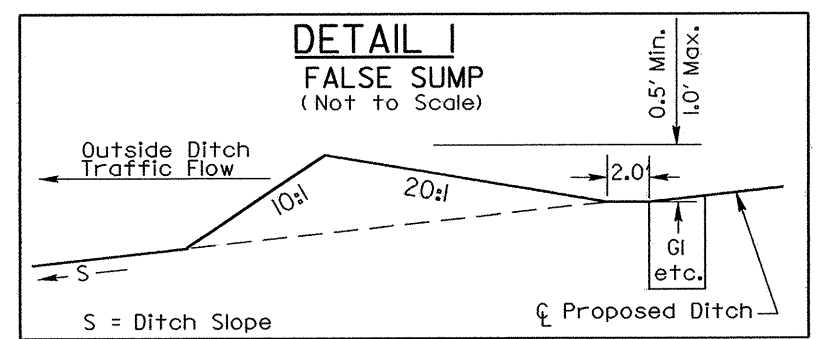
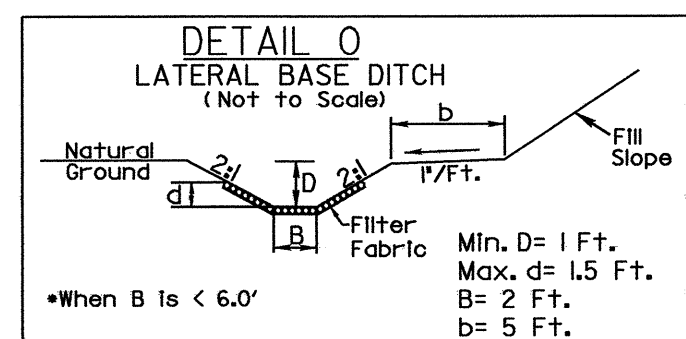
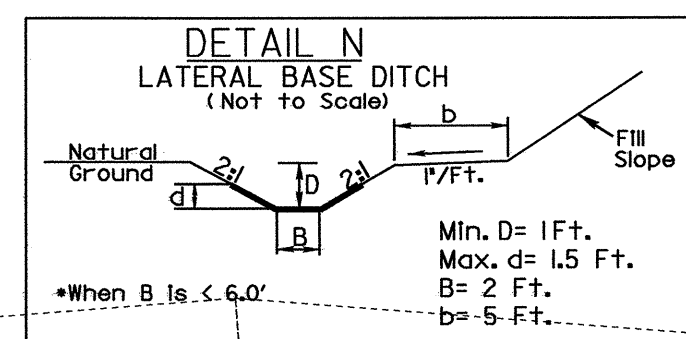
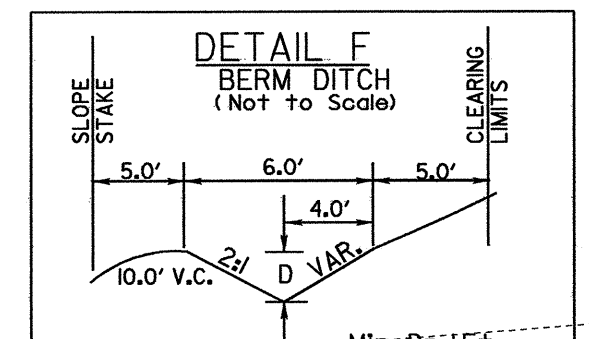
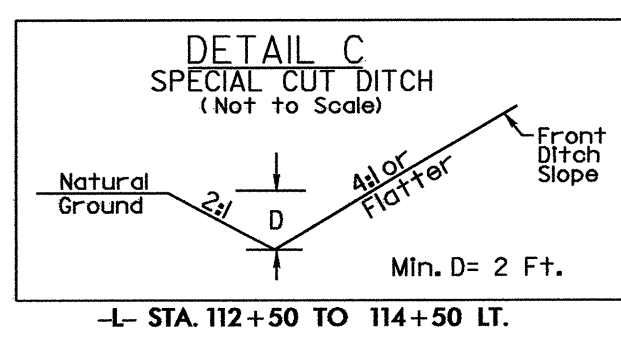
-L- STA. 103+00 TO 104+00 RT.
-L- STA. 107+25 TO 110+30 RT.
-L- STA. 110+30 TO 114+00 RT.
-SR2- STA. 10+65 TO STA. 14+15 RT.

8/17/99
II-FEB-2008 16:13
F:\environment\2320g_r_eu_psh_10.dgn
10/24/03

MATCH LINE - SHEET NO. 11 - STA. 112+00

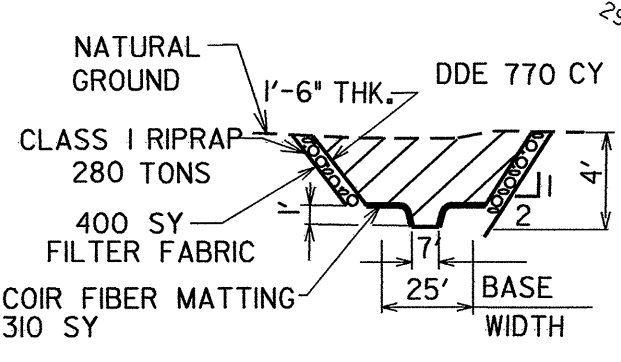
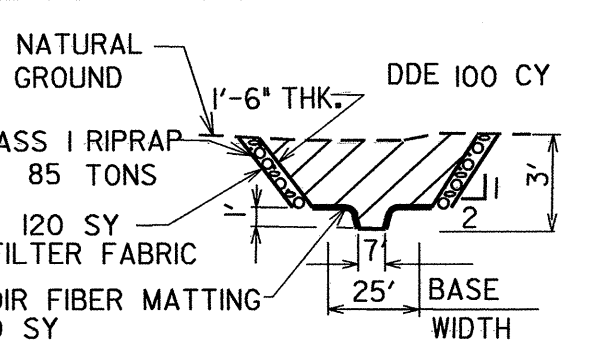
NC GRID
NAD 83

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-II/CONST.II
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



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.



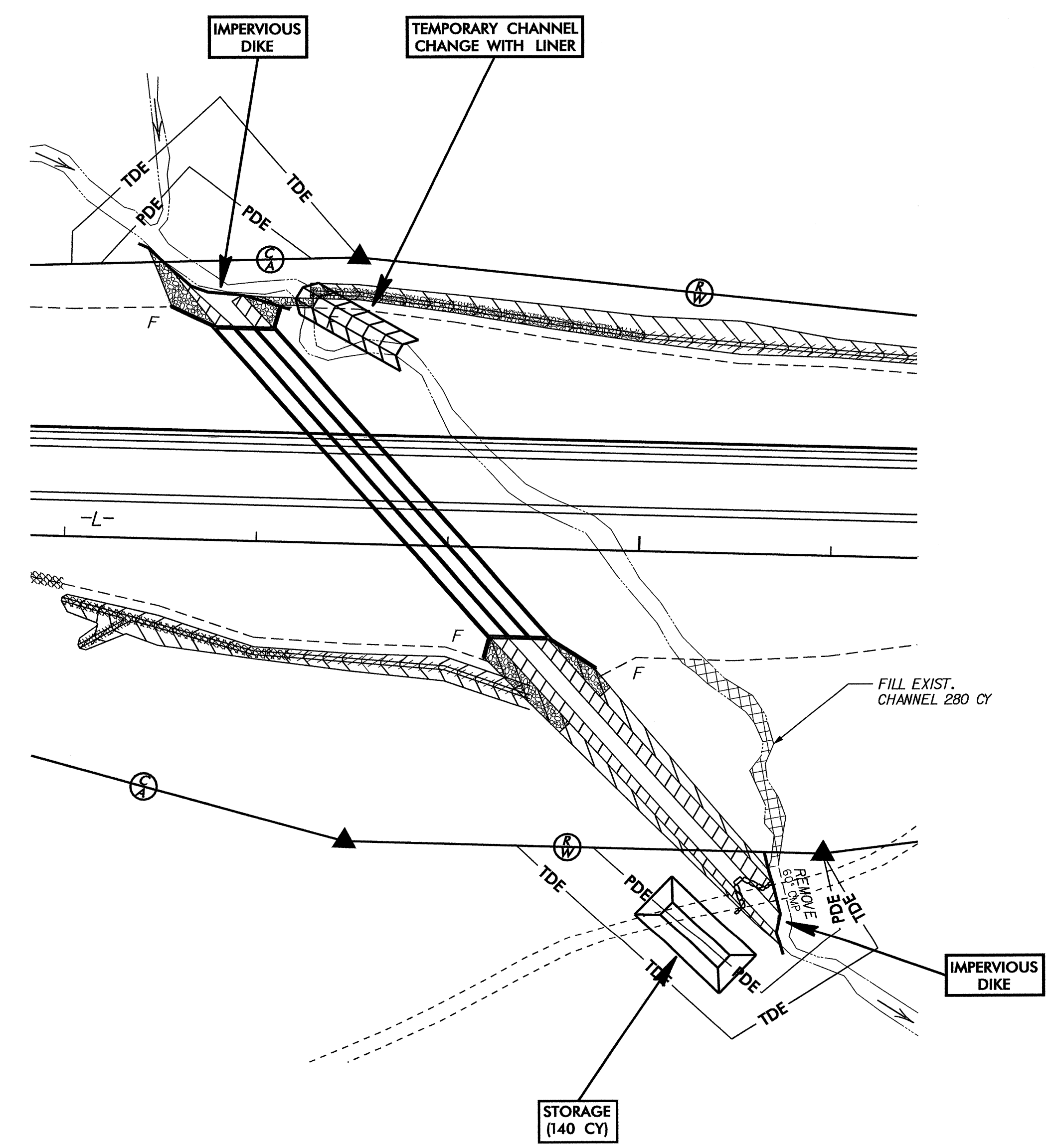
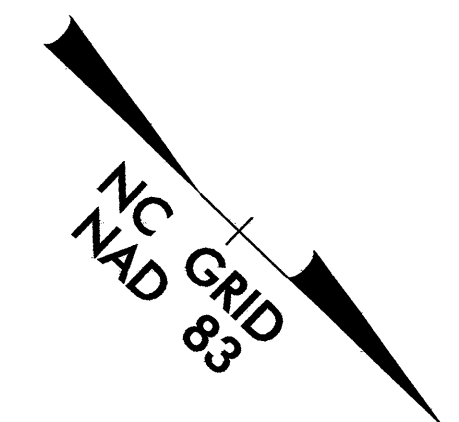
8/17/99
12-FEB-2008 12:58
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ec\2320g-reu-ph.lldgn

SEE SHEET NO. 29 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-12/CONST II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 118+95 -L-

1. CONSTRUCT STILLING BASIN (140 CY).
2. REMOVE 60 INCH CMP FROM GRAVEL DRIVE.
3. CONSTRUCT IMPERVIOUS DIKES.
4. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (7 FT. BASE, 3 FT. DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
5. CONSTRUCT PROPOSED CULVERT AND WINGWALLS.
6. CONSTRUCT PROPOSED UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
7. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE, DIVERTING FLOW THROUGH PROPOSED CULVERT.
8. REMOVE STILLING BASIN AND COMPLETE ROADWAY.

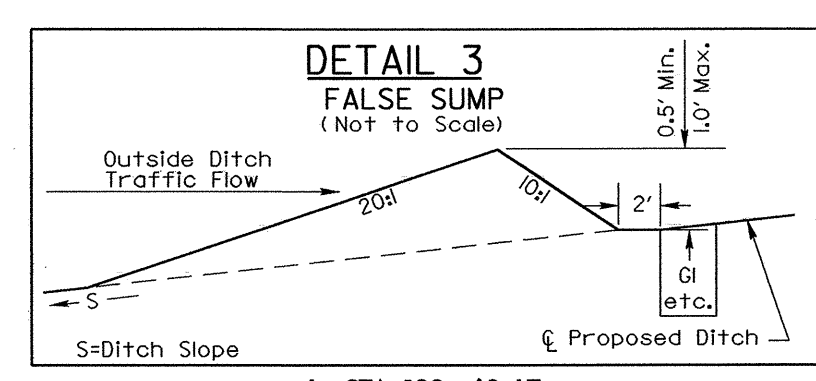


PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-13/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

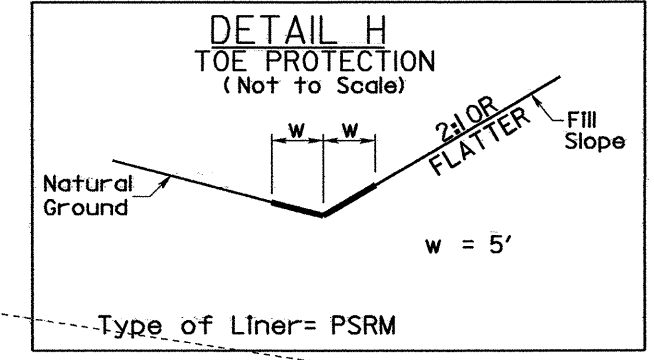
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

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

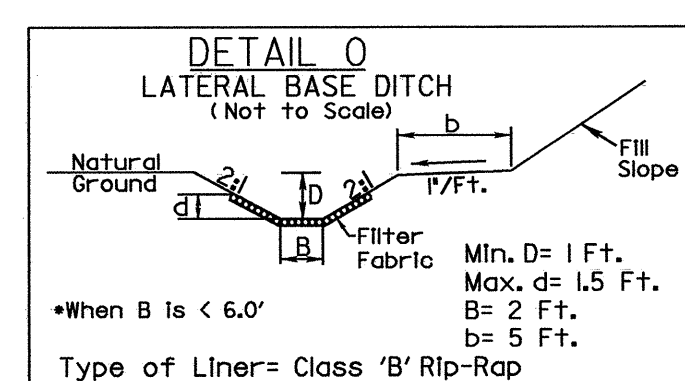
M.T. HATLEY, VANN R. FRYE, & J.M. DICK
TRUSTEES OF BETHESDA METHODIST CHURCH
AND THEIR SUCCESSORS
DB 211 PG 319



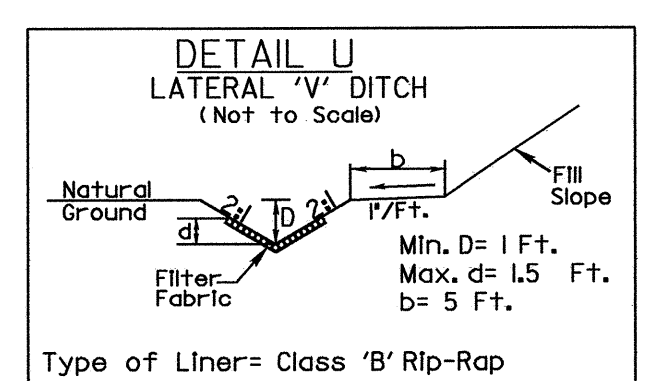
-L- STA. 133+60 LT.
-L- STA. 138+10 RT.



Type of Liner= PSRM
-L- STA. 137+00 TO 188+10 RT.
-SR3- STA. 25+00 TO 26+85 LT.
-SR3- STA. 26+22 TO 27+22 RT.



Min. D= 1 Ft.
Max. d= 1.5 Ft.
B= 2 Ft.
b= 5 Ft.
Type of Liner= Class 'B' Rip-Rap
-L- STA. 134+00 TO 137+70 LT., DDE = 214 CY
CL B RR = 207 TONS, FF = 561 SY
-L- STA. 137+80 TO 140+00 LT., DDE = 133 CY
CL B RR = 123 TONS, FF = 334 SY



Type of Liner= Class 'B' Rip-Rap
-SR3- STA. 21+22 TO 24+42 RT., DDE = 180 CY
CL B RR = 161 TONS, FF = 455 SY

25 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
12.5 C&G 12.6 C&G

Modified Silt Basin
Type 'B'
25 x 16 x 3
(See Tiered Skimmer
Basin Detail)
ID 12.5 & 12.6 C&G

65 x 21 x 3
2.0 inch Skimmer
with 1.835 inch
Orifice Diameter
10 ft. weir
ID 12.1 C&G

31 x 10 x 3
ID 12.2 C&G

21 x 13 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 12.3 C&G

Modified Silt Basin
Type 'B'
21 x 13 x 3
(See Tiered Skimmer
Basin Detail)
ID 12.3 C&G

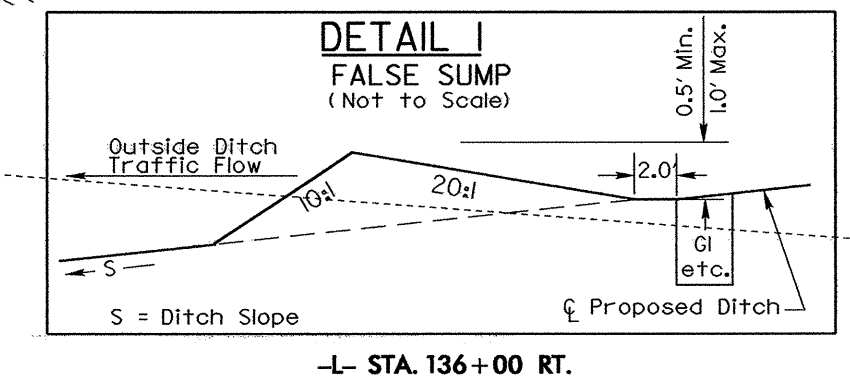
36 x 12 x 3
1.5 inch Skimmer
with 1.175 inch
Orifice Diameter
4 ft. weir
ID 12.4 C&G

MATCH LINE - SHEET NO. 11 - STA. 126+00

MATCH LINE - SHEET NO. 13 - STA. 140+00

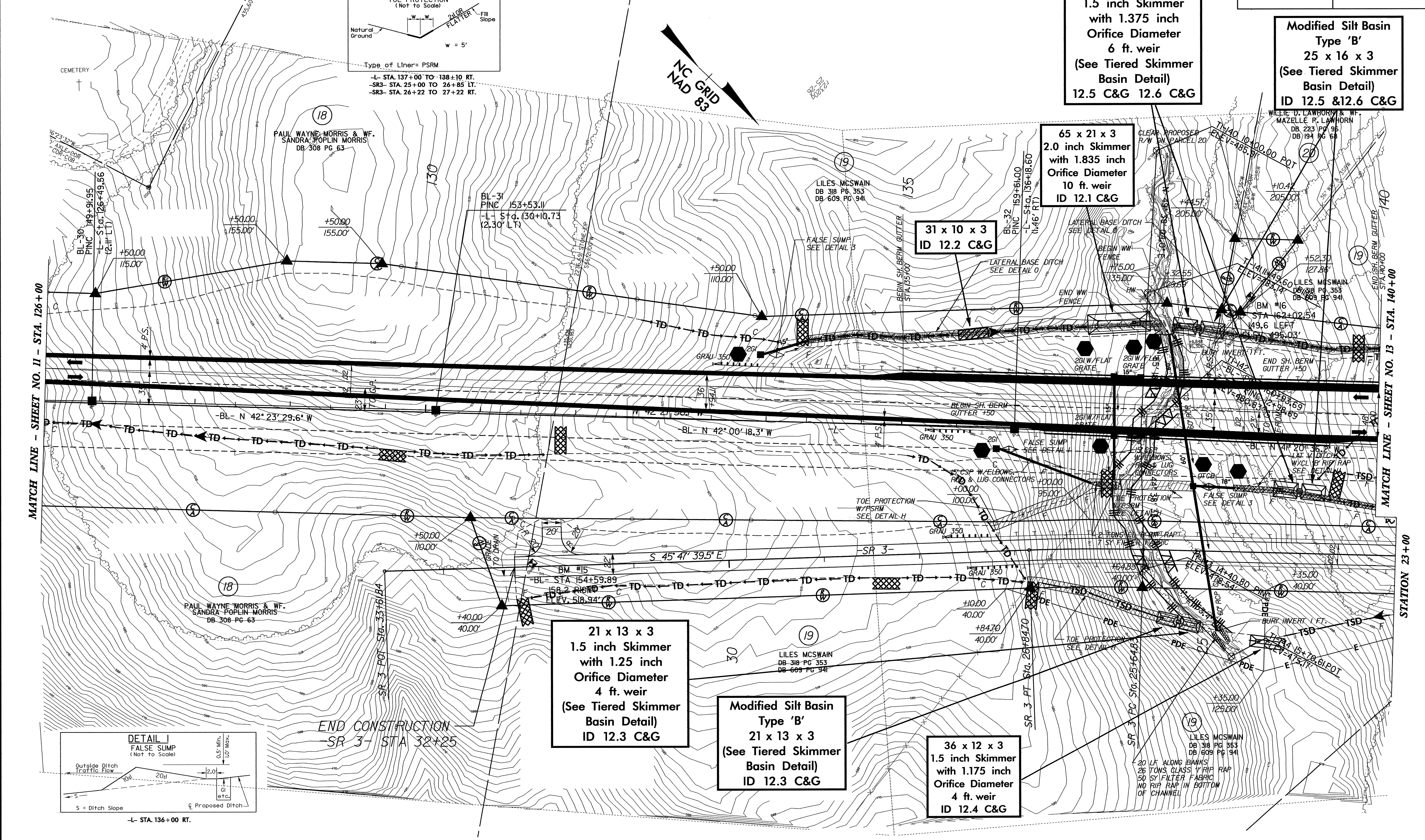
STATION 23+00

12-FEB-2008 13:02
r:\environmental\desig\2320g_reu-phs\12.dgn
B:\RENT\2320g



-L- STA. 136+00 RT.

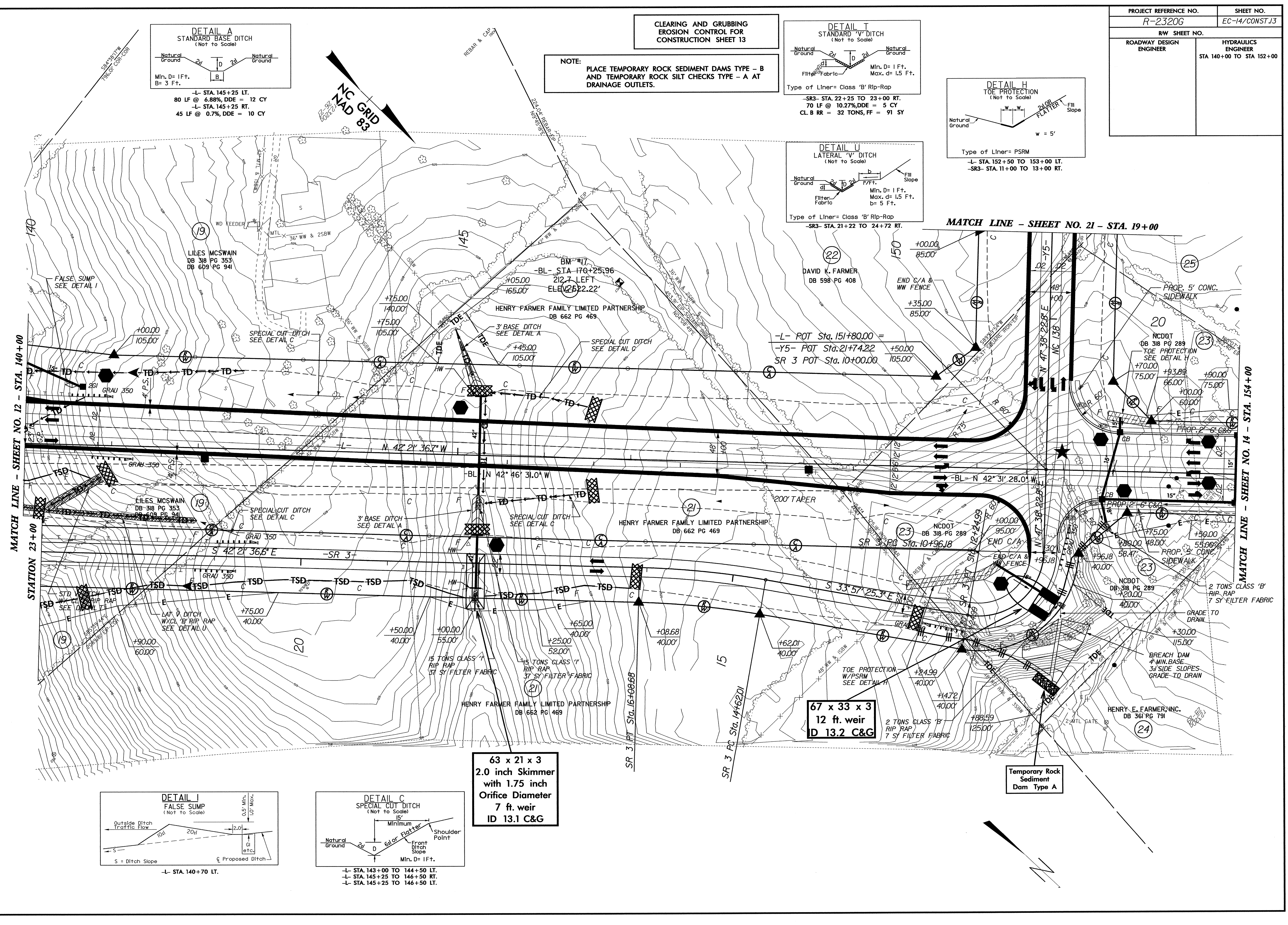
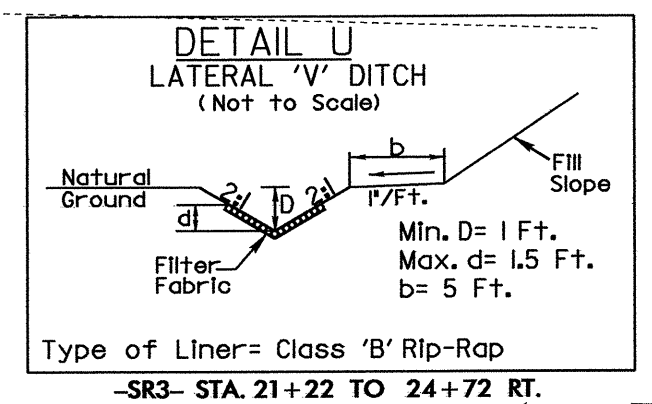
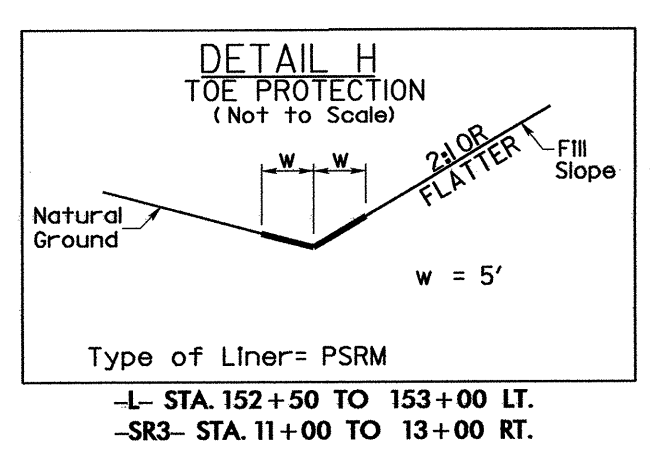
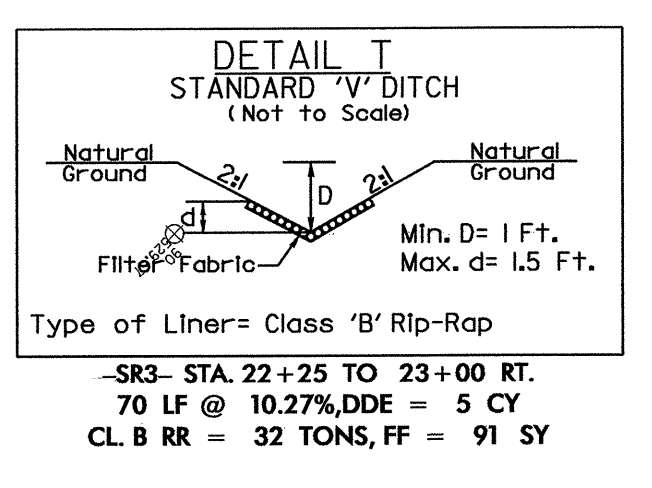
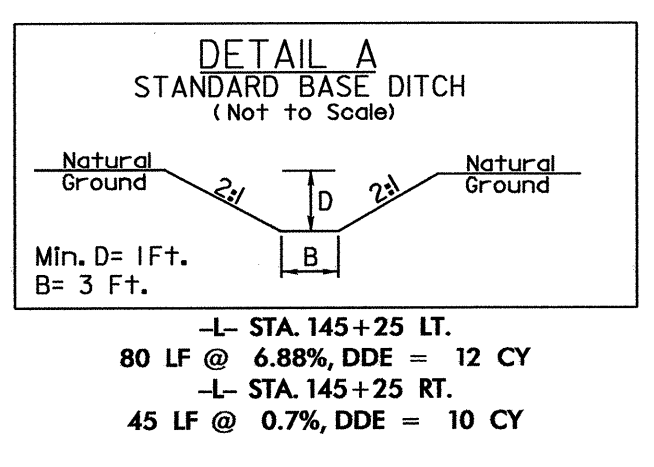
END CONSTRUCTION
SR 3 - STA 32+25



PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-14/CONST.13
RW SHEET NO.	HYDRAULICS ENGINEER STA 140+00 TO STA 152+00
ROADWAY DESIGN ENGINEER	

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13**

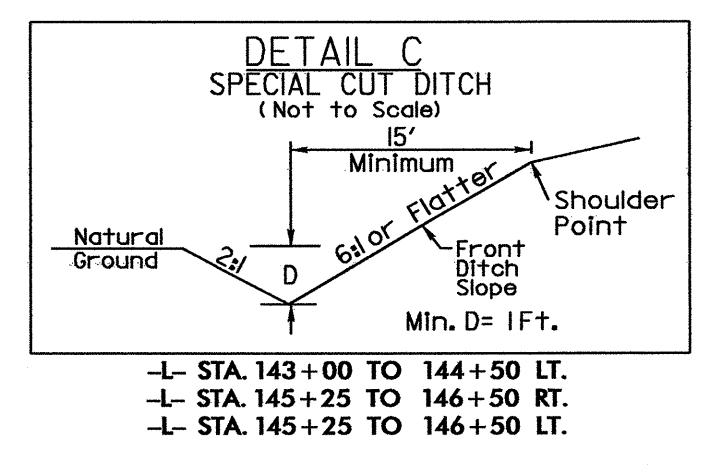
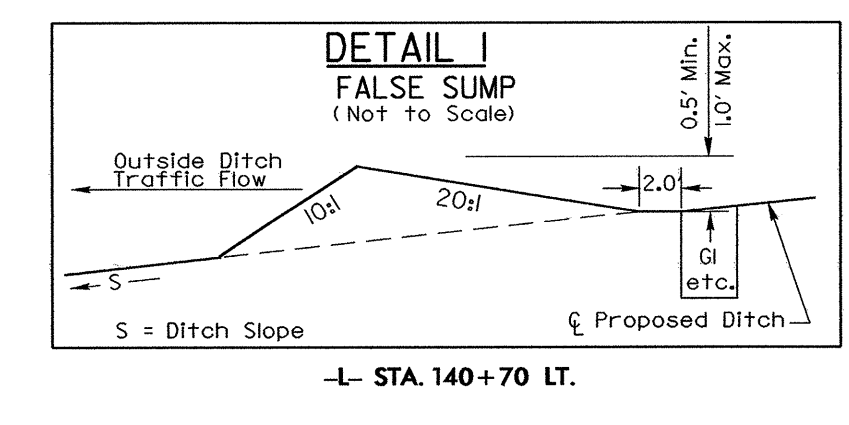
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



MATCH LINE - SHEET NO. 12 - STA. 140+00

MATCH LINE - SHEET NO. 21 - STA. 19+00

MATCH LINE - SHEET NO. 14 - STA. 154+00



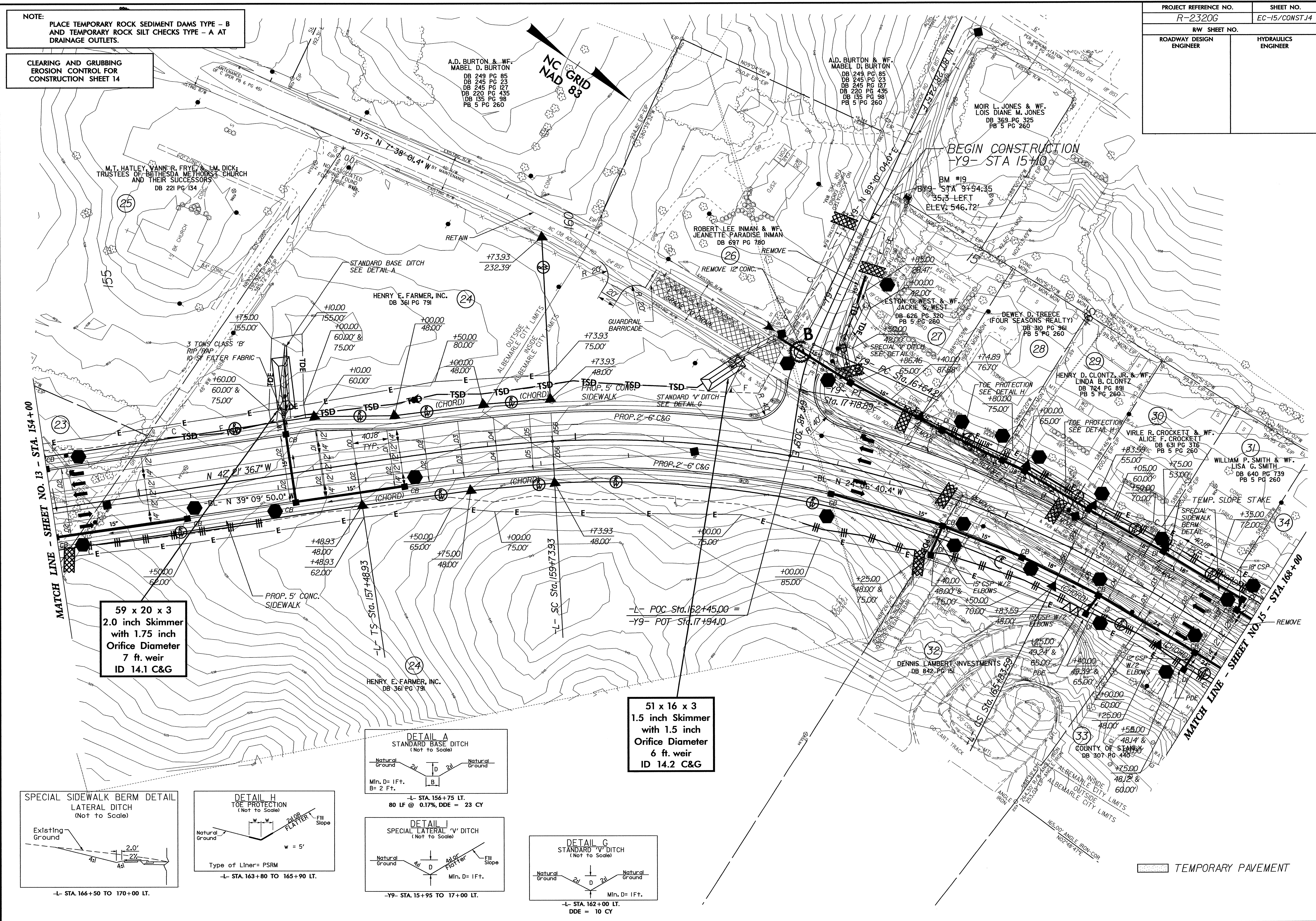
Temporary Rock Sediment Dam Type A

8/17/99
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r:\environmental\2320g_reu.ph.13.dgn
13:05
13:05

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-15/CONST.14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

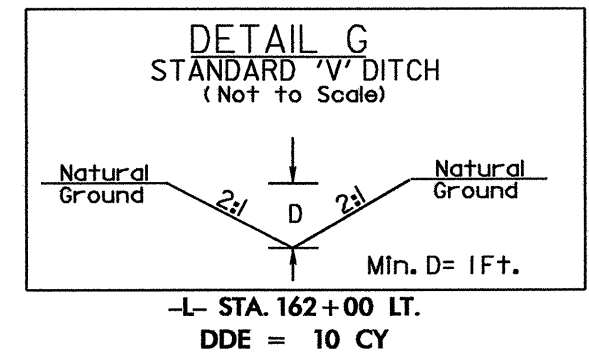
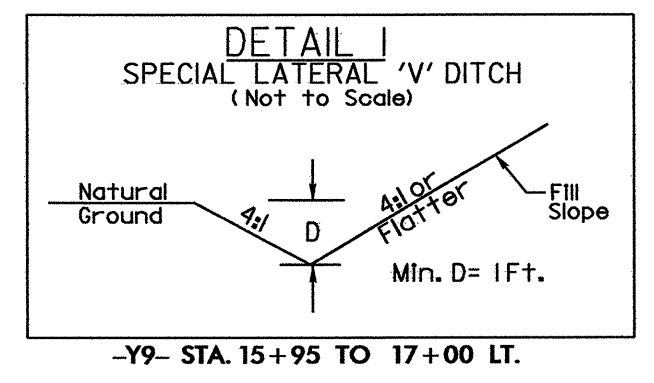
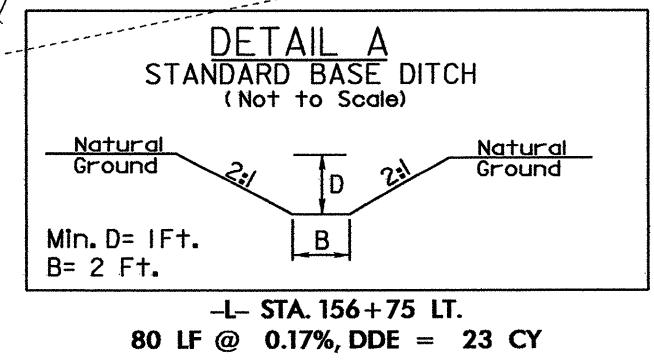
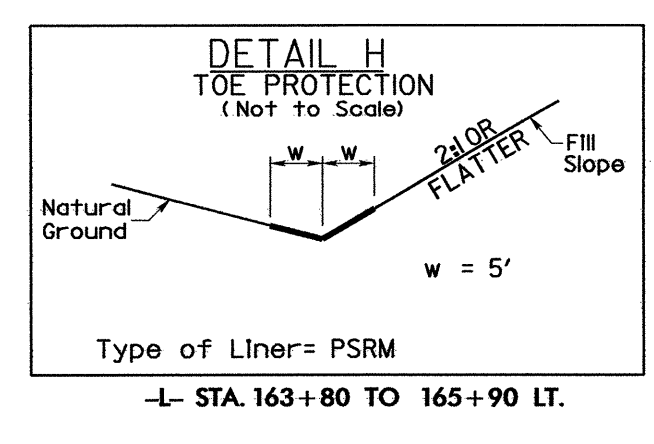
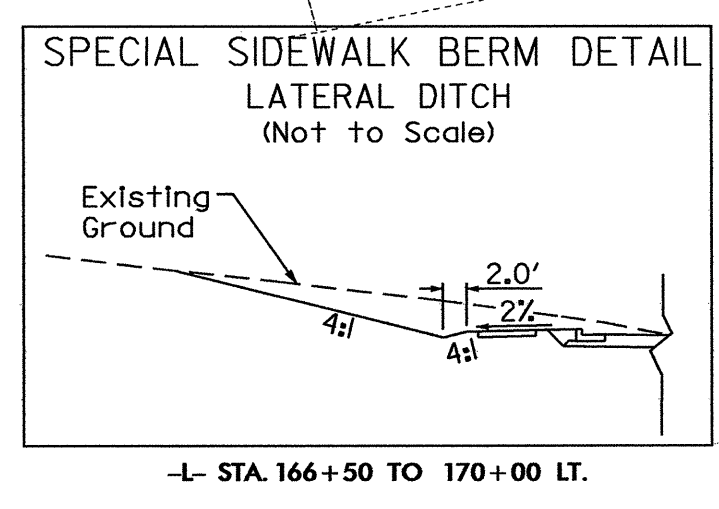
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 14



59 x 20 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
7 ft. weir
ID 14.1 C&G

51 x 16 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
6 ft. weir
ID 14.2 C&G



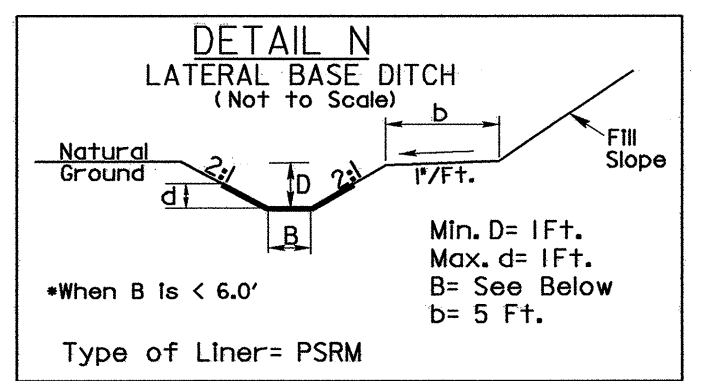
TEMPORARY PAVEMENT

8/17/99
12-FEB-2008 13:06
r:\envi\coment\p\des\320g_reu-phs\14.dgn
BT REWZ1433

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	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.



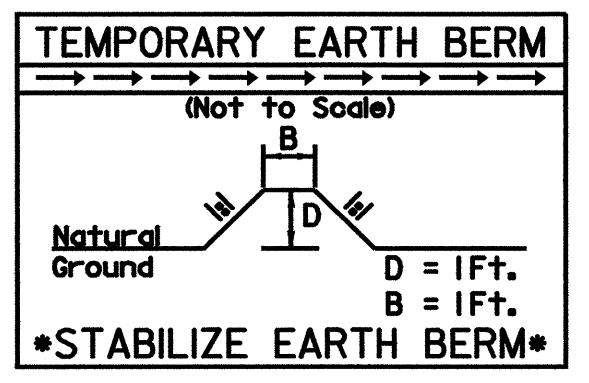
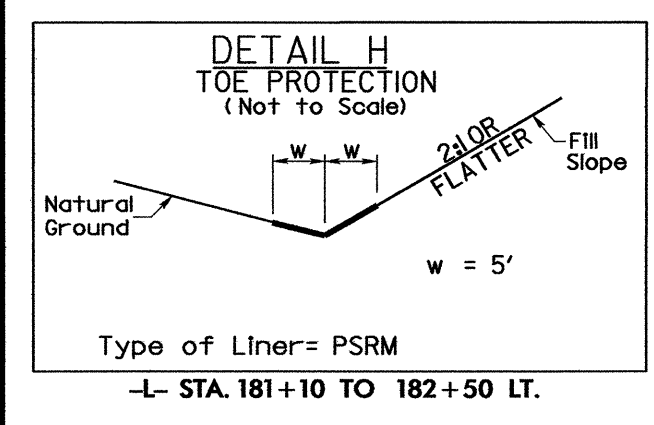
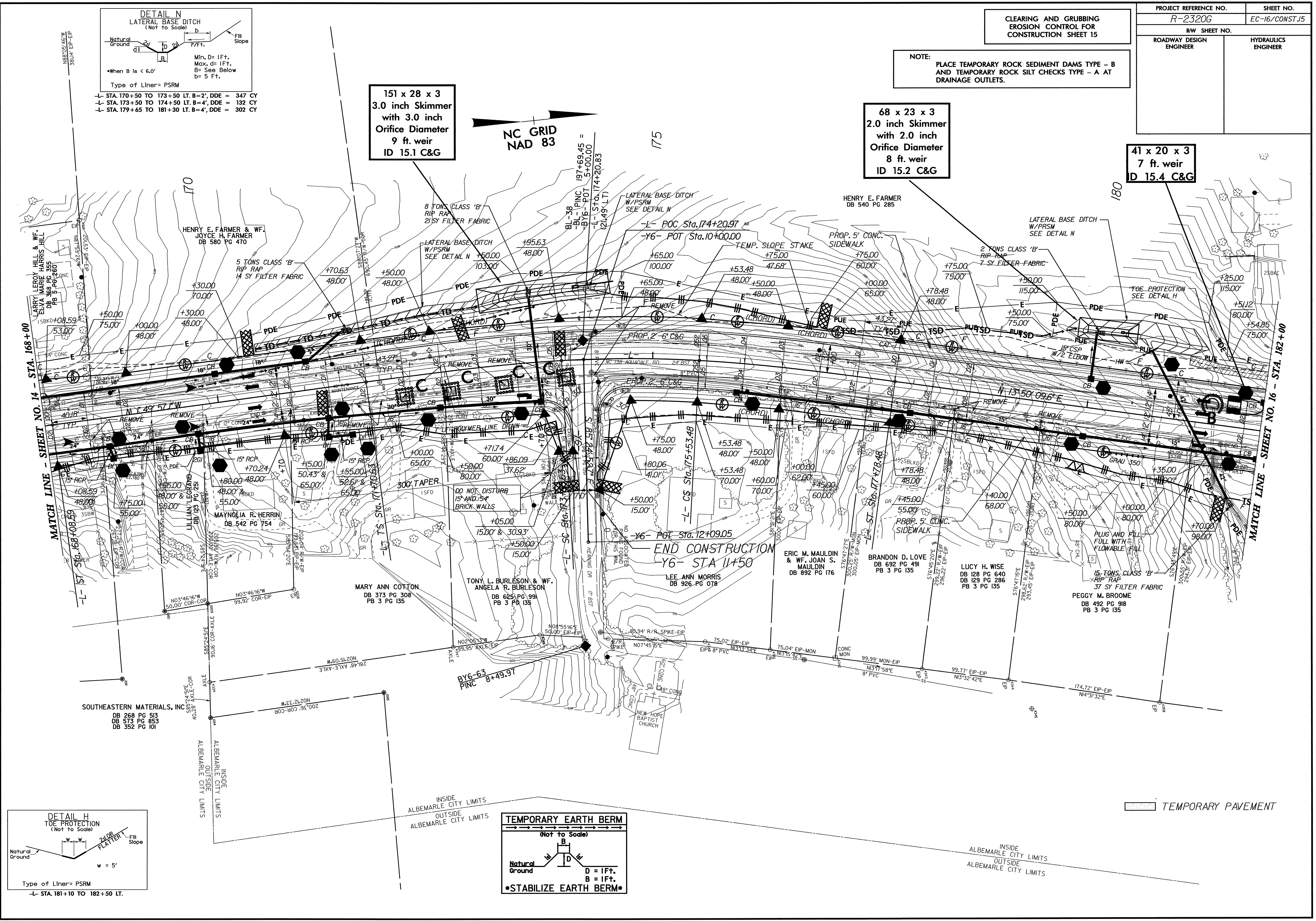
•When B is < 6.0'
Type of Liner= PSRM
-L- STA. 170+50 TO 173+50 LT. B=2', DDE = 347 CY
-L- STA. 173+50 TO 174+50 LT. B=4', DDE = 132 CY
-L- STA. 179+65 TO 181+30 LT. B=4', DDE = 302 CY

151 x 28 x 3
3.0 inch Skimmer
with 3.0 inch
Orifice Diameter
9 ft. weir
ID 15.1 C&G

68 x 23 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
8 ft. weir
ID 15.2 C&G

41 x 20 x 3
7 ft. weir
ID 15.4 C&G

NC GRID
NAD 83



TEMPORARY PAVEMENT

INSIDE
ALBEMARLE CITY LIMITS
OUTSIDE
ALBEMARLE CITY LIMITS

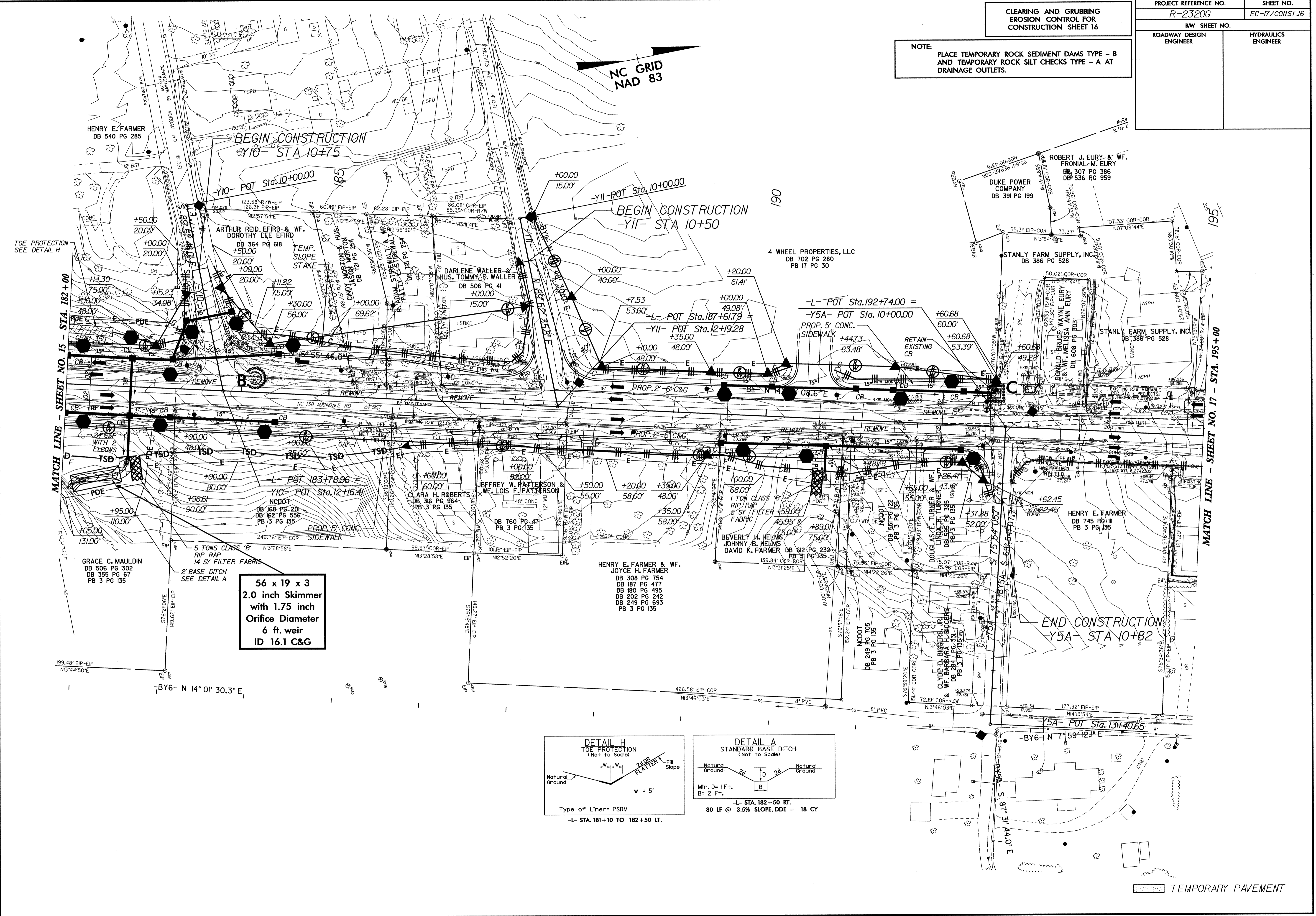
8/17/99
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15.dwg
15

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-17/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS 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.

8/17/99

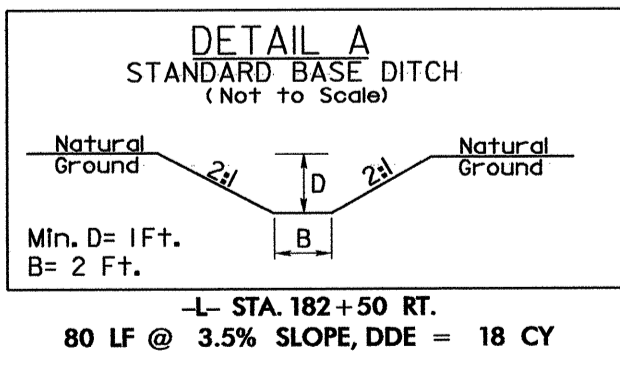
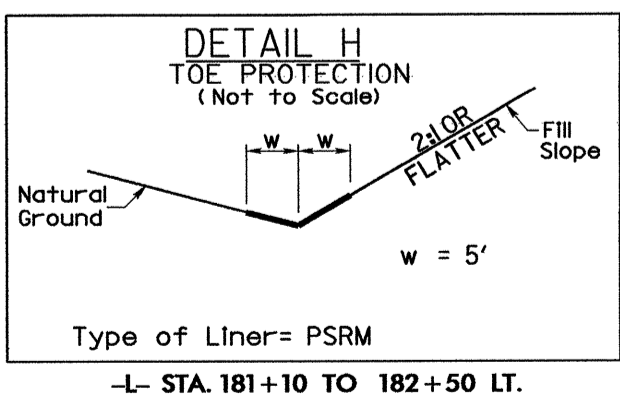


TOE PROTECTION
SEE DETAIL H

MATCH LINE - SHEET NO. 15 - STA. 182+00

MATCH LINE - SHEET NO. 17 - STA. 195+00

**56 x 19 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
6 ft. weir
ID 16.1 C&G**



TEMPORARY PAVEMENT

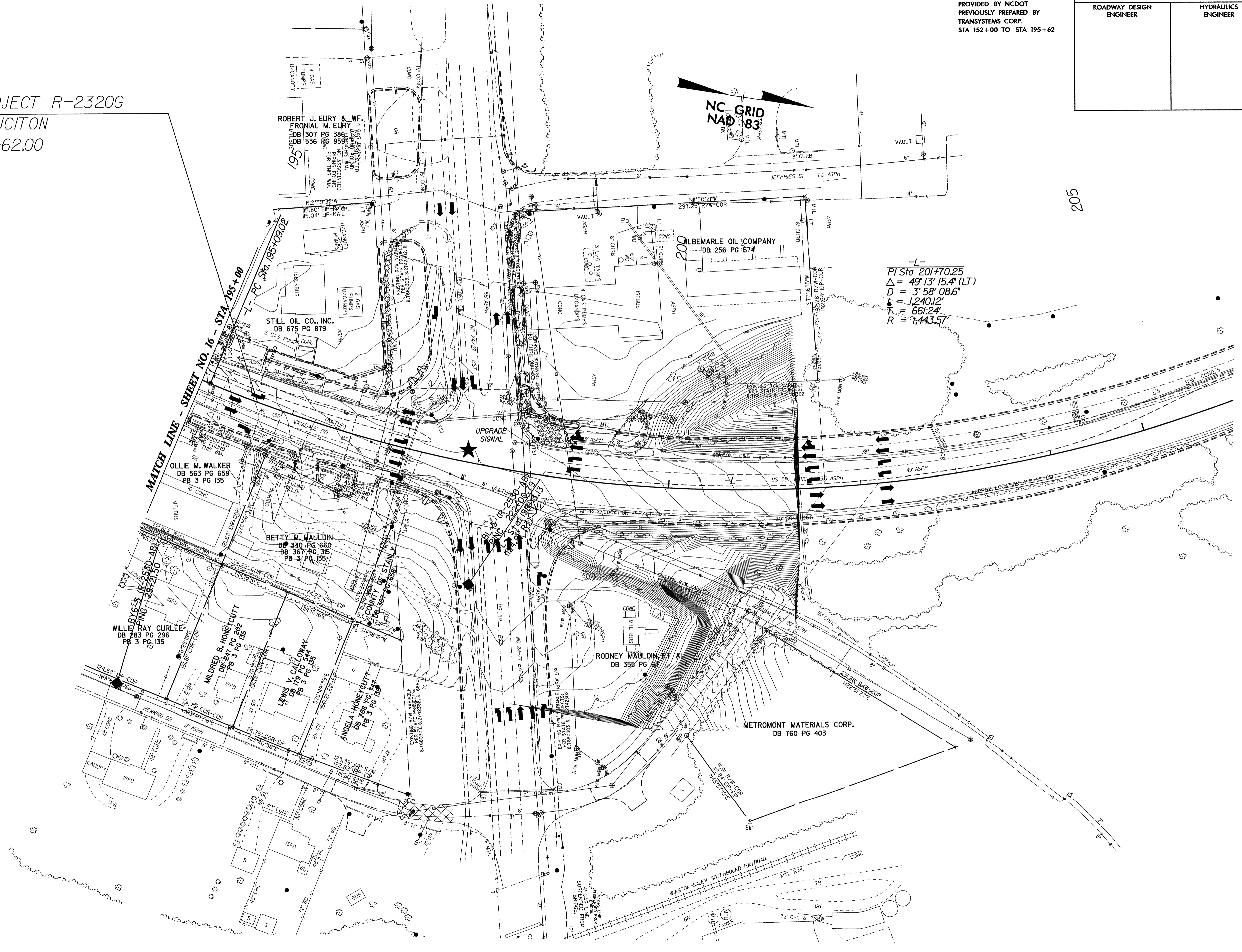
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AL RANZ24133

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-18/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

HYDRAULIC DESIGN:
PROVIDED BY NCDOT
PREVIOUSLY PREPARED BY
TRANSYSTEMS CORP.
STA 152+00 TO STA 195+62

END TIP PROJECT R-2320G
END CONSTRUCTION
-L- STA.195+62.00

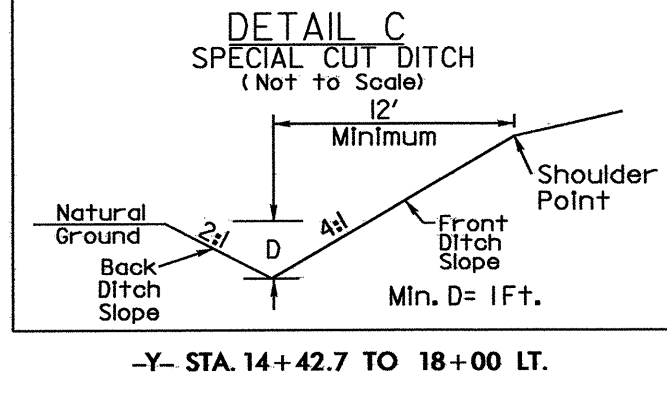
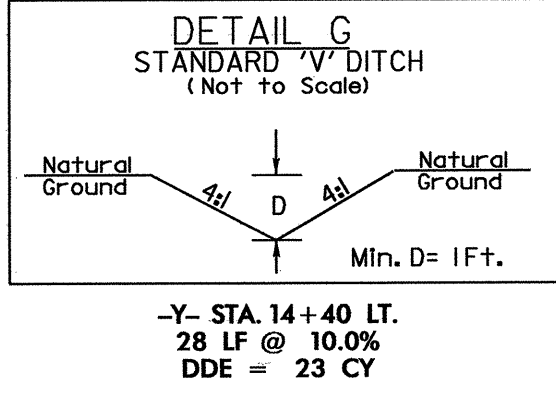


-L-
PI Sta 201+70.25
 $\Delta = 49^{\circ}13'15.4''$ (LT)
 $D = 3'58''08.6''$
 $L = 1,240.12'$
 $T = 661.24'$
 $R = 1,443.57'$

205

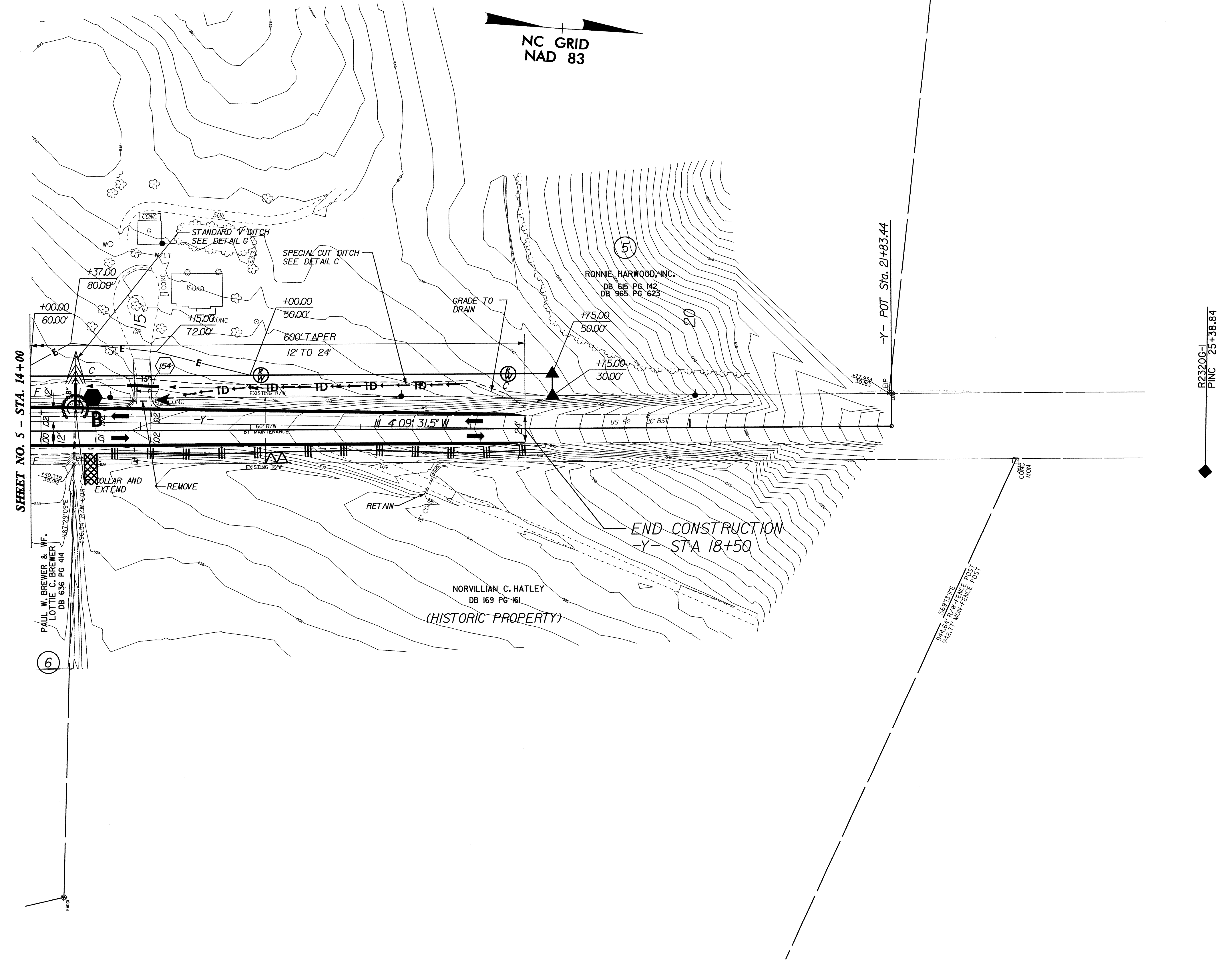
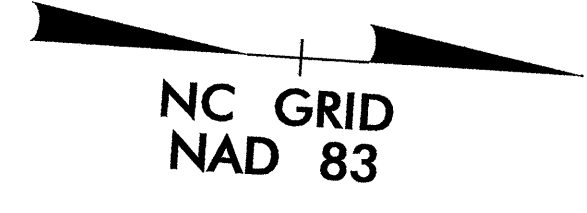
8/17/99

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Environment\1617\2320g-reu.psh_17.dgn
11/16/2008 11:17:13 AM



PROJECT REFERENCE NO. R-2320G		SHEET NO. EC-19/CONST.18	
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.



SHEET NO. 5 - STA. 14+00

PAUL W. BREWER & WF.
LOTTIE C. BREWER
DB 636 PG 414

NORVILLIAN C. HATLEY
DB 169 PG 161
(HISTORIC PROPERTY)

RONNIE HARWOOD, INC.
DB 615 PG 142
DB 965 PG 623

-Y- POT Sta. 21+83.44

R2320G-1
PINC 25+38.84

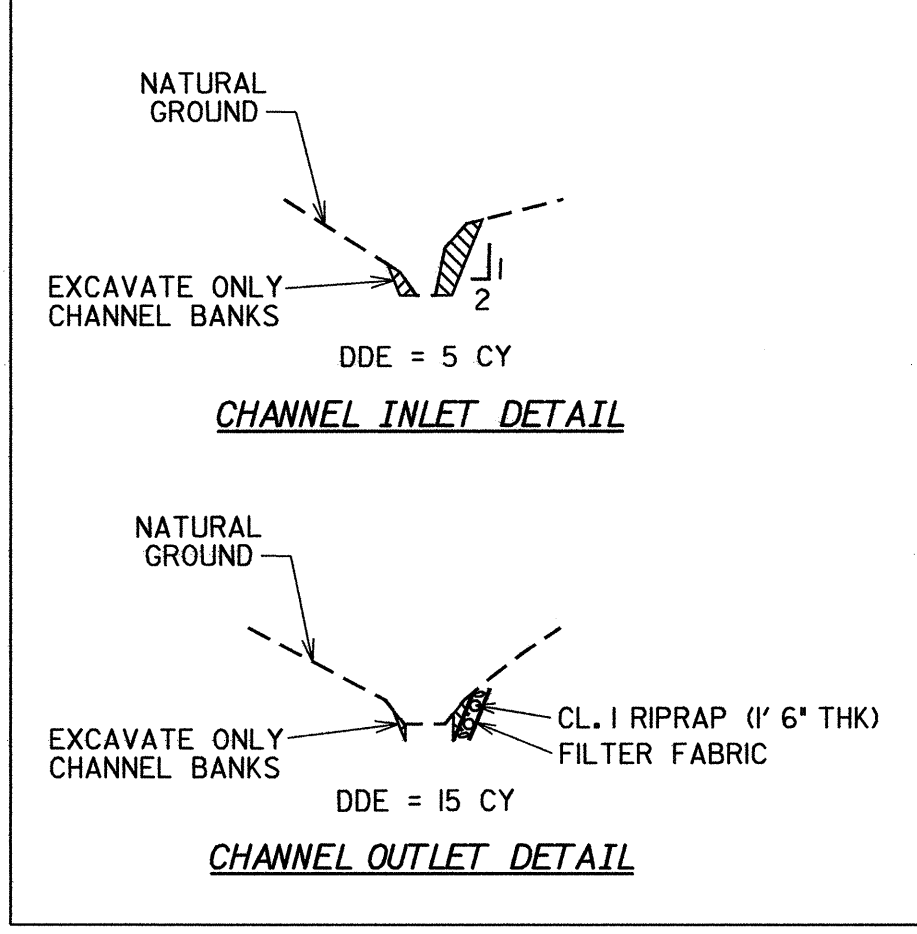
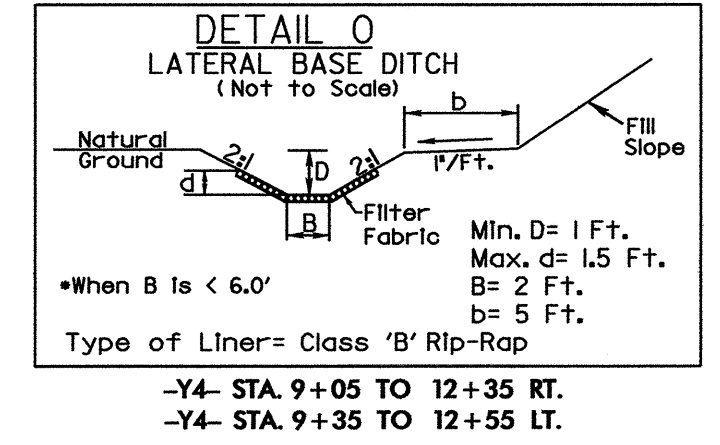
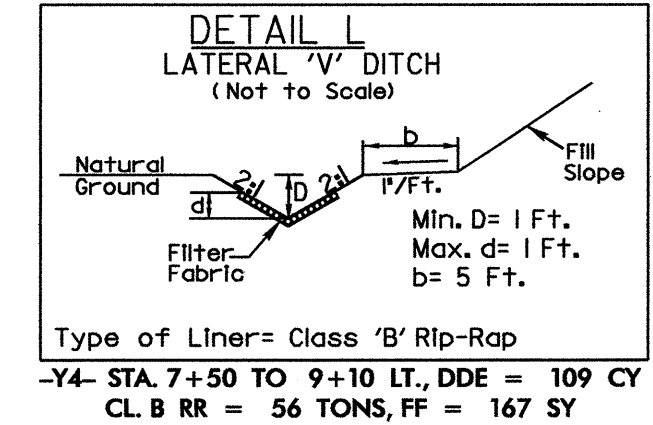
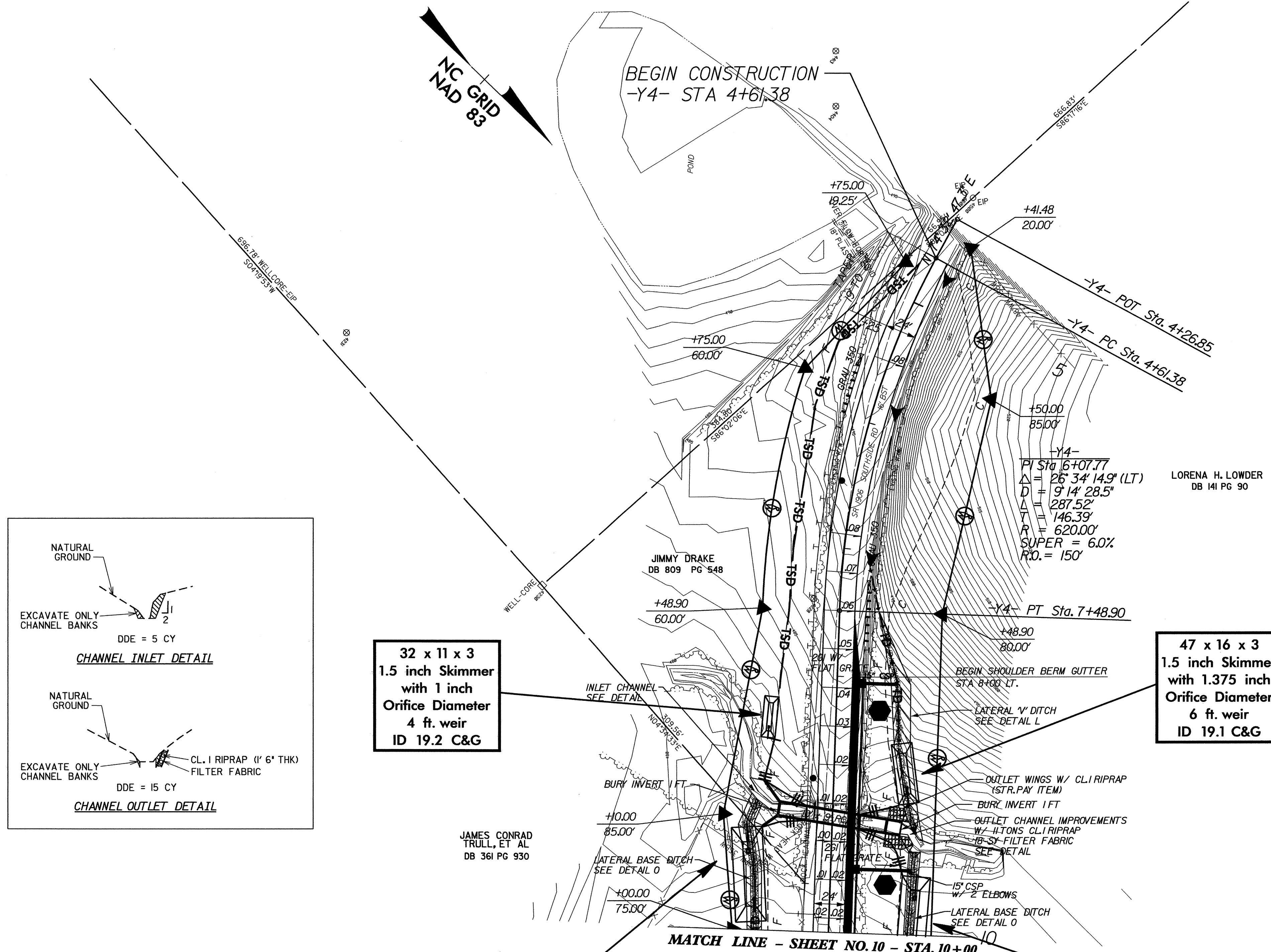
**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19**

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

PROJECT REFERENCE NO. <i>R-2320G</i>	SHEET NO. <i>EC-20/CONST.19</i>
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**NC GRID
NAD 83**

**BEGIN CONSTRUCTION
-Y4- STA 4+61.38**



**32 x 11 x 3
1.5 inch Skimmer
with 1 inch
Orifice Diameter
4 ft. weir
ID 19.2 C&G**

**47 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
ID 19.1 C&G**

**74 x 24 x 3
2.5 inch Skimmer
with 2.725 inch
Orifice Diameter
8 ft. weir
ID 10.1 C&G**

**66 x 22 x 3
2.0 inch Skimmer
with 1.875 inch
Orifice Diameter
8 ft. weir
ID 10.4 C&G**

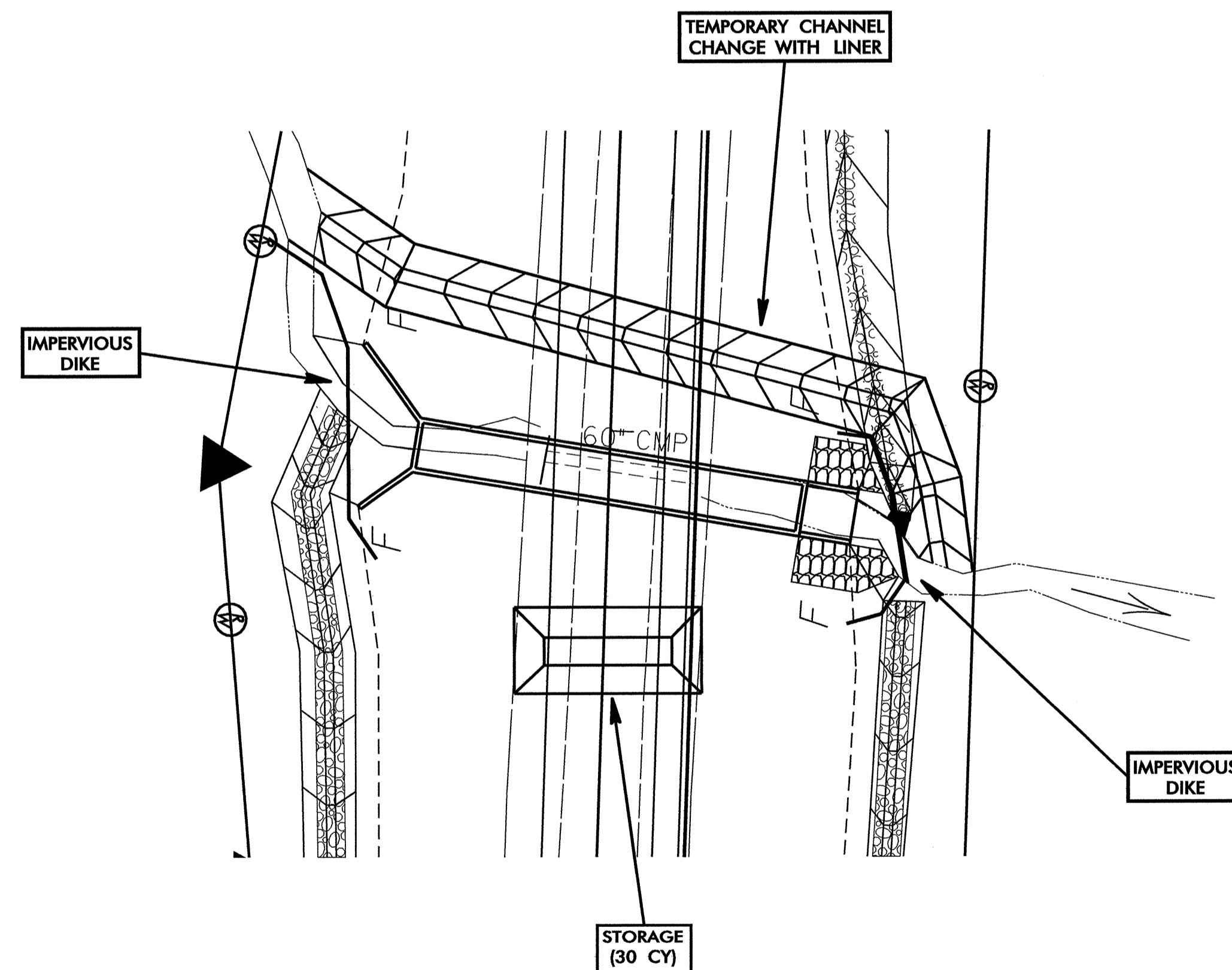
MATCH LINE - SHEET NO. 10 - STA. 10+00

8/17/99
12-FEB-2008 15:47
r:\environment\c320g-reu-ps-h_19.dgn
AL HANZ 2/11/03

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-21/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 9+10 -Y4-

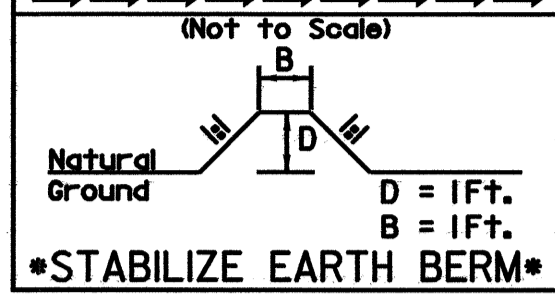
1. CONSTRUCT STILLING BASIN (30 CY).
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (3 FT. BASE, 3 FT. DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT IMPERVIOUS DIKES.
4. REMOVE EXISTING 60 INCH CMP.
5. CONSTRUCT PROPOSED CULVERT AND WINGWALLS.
6. CONSTRUCT PROPOSED INLET/OUTLET CHANNEL IMPROVEMENTS.
7. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE, DIVERTING FLOW THROUGH PROPOSED CULVERT.
8. REMOVE STILLING BASIN AND COMPLETE ROADWAY.



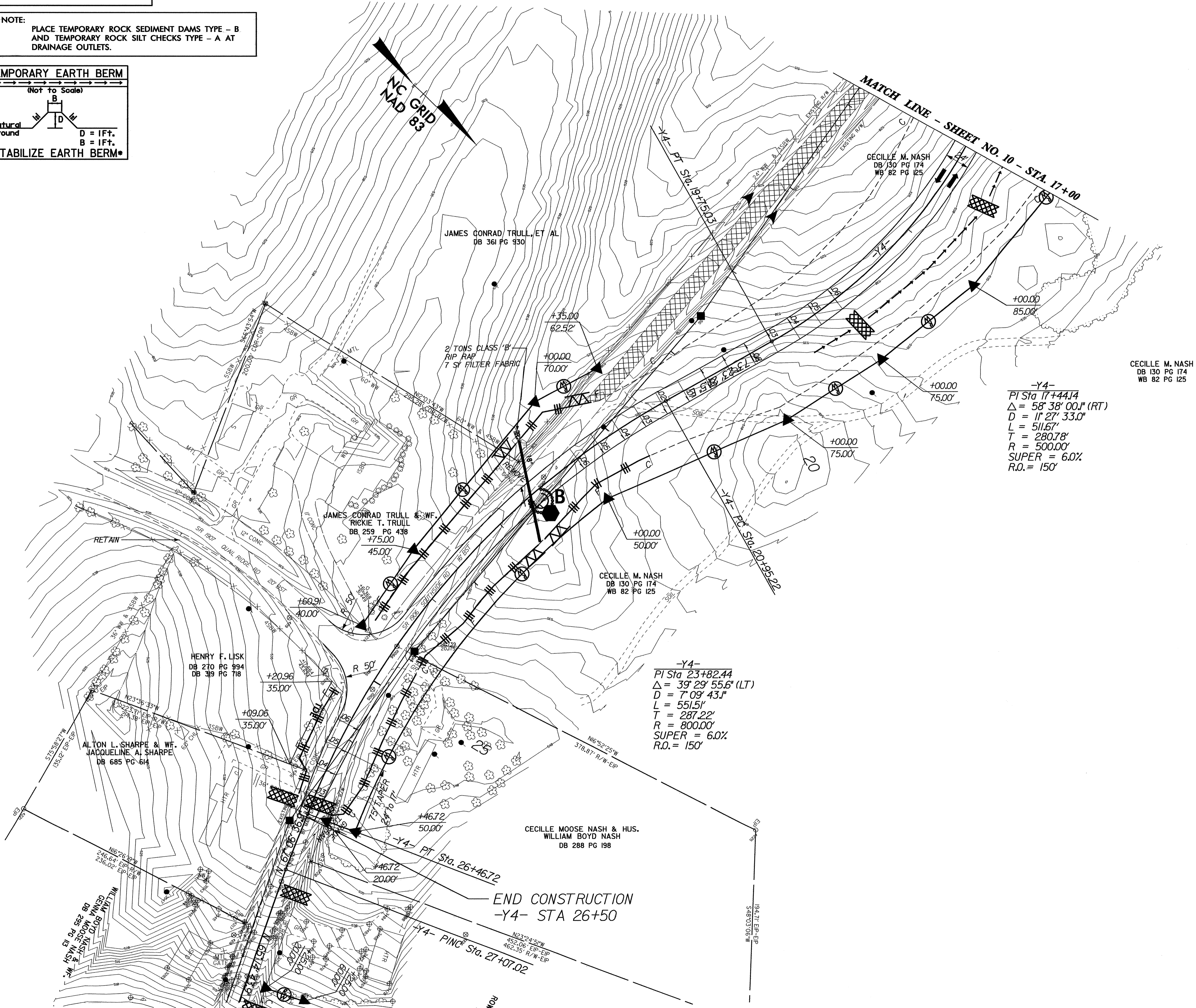
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 20

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

TEMPORARY EARTH BERM



PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-22/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y4-
 PI Sta 17+44.14
 $\Delta = 58^{\circ} 38' 00.1''$ (RT)
 D = 11' 27' 33.0"
 L = 511.67'
 T = 280.78'
 R = 500.00'
 SUPER = 6.0%
 R.O. = 15'

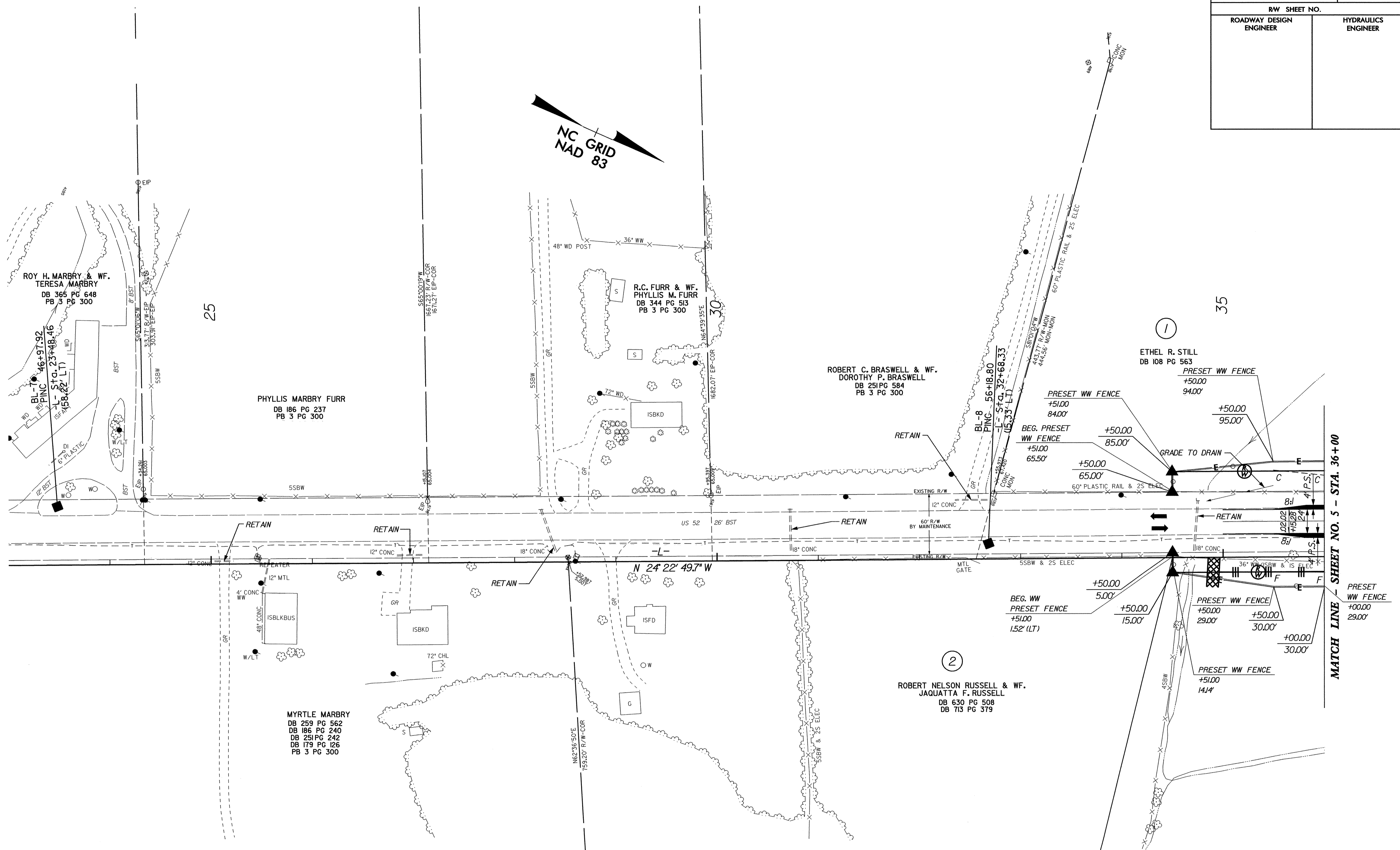
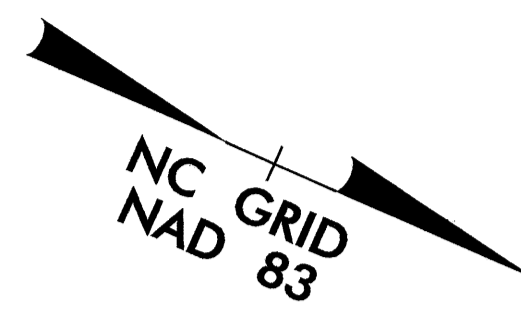
-Y4-
 PI Sta 23+82.44
 $\Delta = 39^{\circ} 29' 55.6''$ (LT)
 D = 7' 09' 43.1"
 L = 551.51'
 T = 287.22'
 R = 800.00'
 SUPER = 6.0%
 R.O. = 15'

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-24/CONST.22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PROJECT REFERENCE NO.		SHEET NO.	
R-2320G		EC-25/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

8/17/99



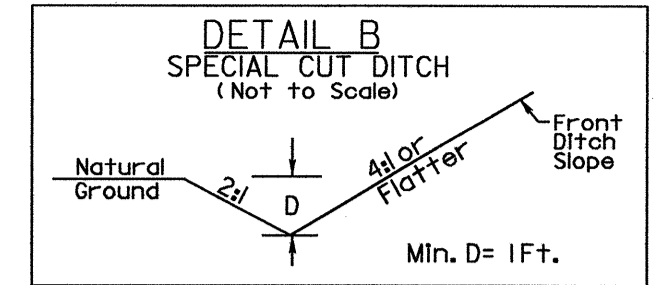
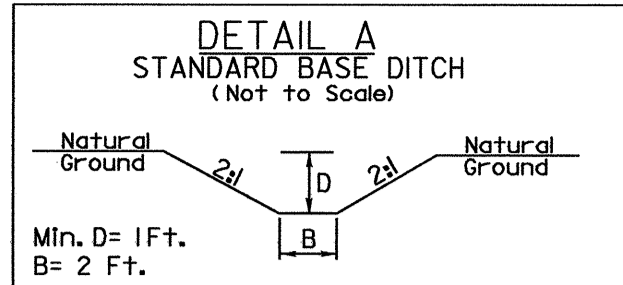
BEGIN TIP PROJECT R-2320G
 BEGIN CONSTRUCTION
 -L- STA. 34+50

MATCH LINE SHEET NO. 5 - STA. 36+00

SEE SHEET NO. 22 FOR -L- PROFILE

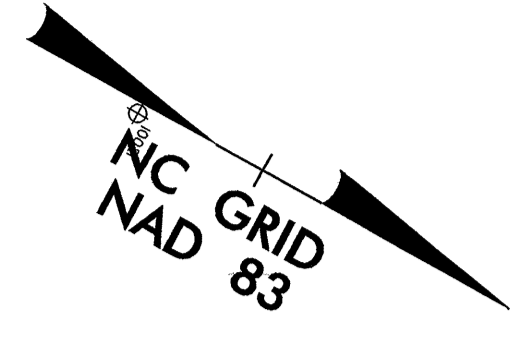
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PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-26/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

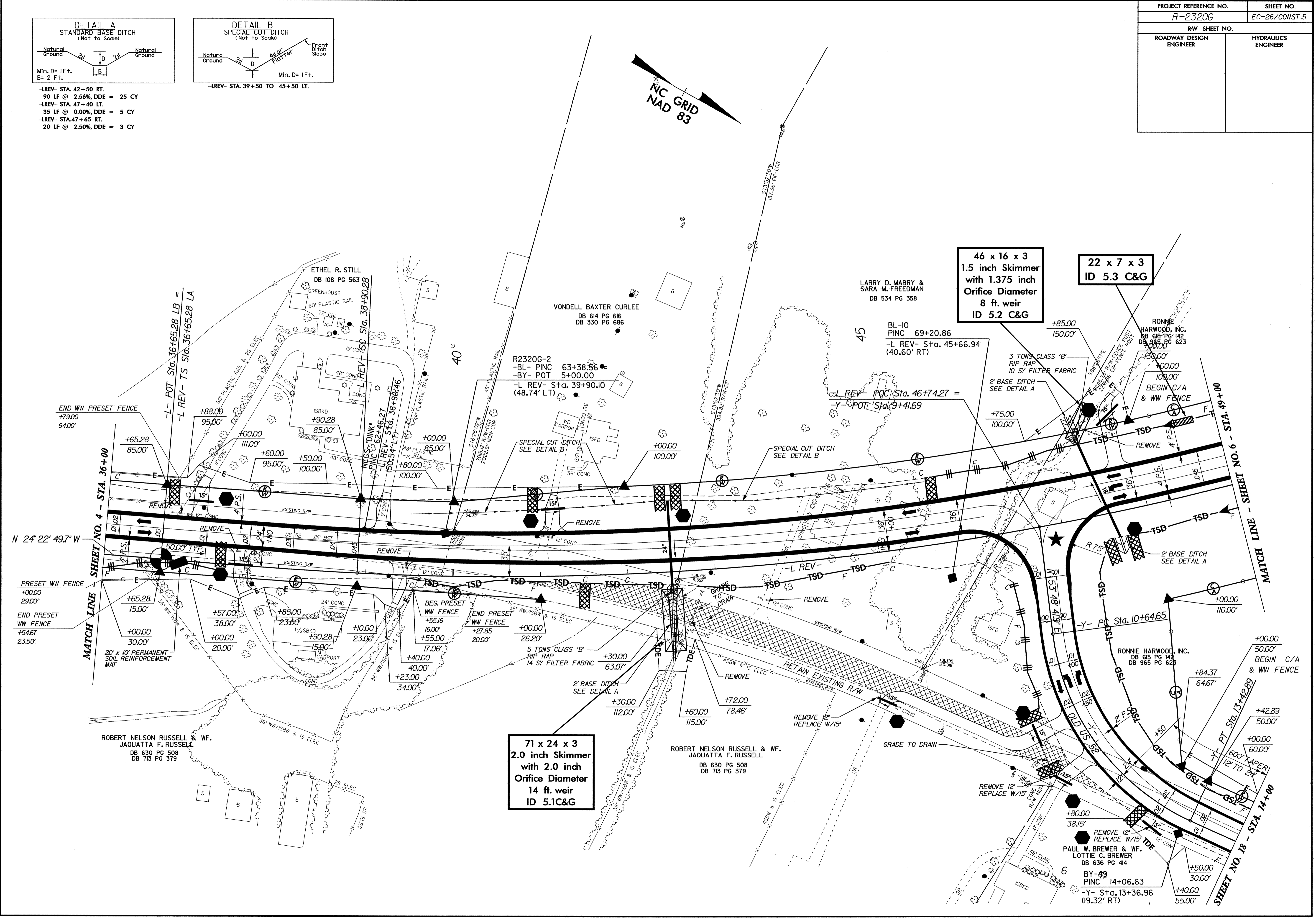


-LREV- STA. 42+50 RT.
 90 LF @ 2.56%, DDE = 25 CY
 -LREV- STA. 47+40 LT.
 35 LF @ 0.00%, DDE = 5 CY
 -LREV- STA. 47+65 RT.
 20 LF @ 2.50%, DDE = 3 CY

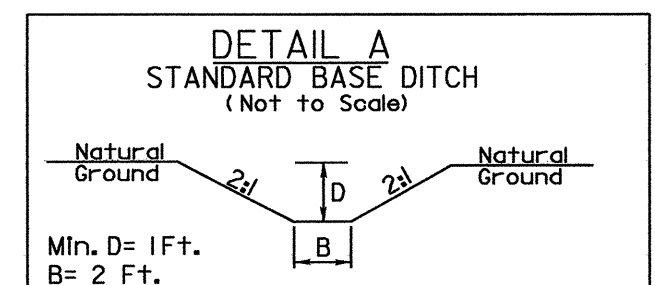
-LREV- STA. 39+50 TO 45+50 LT.



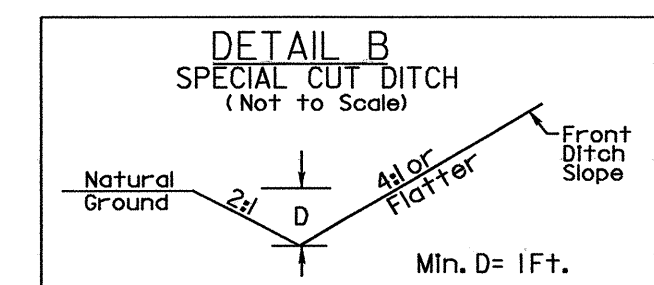
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 AT: 1/21/09



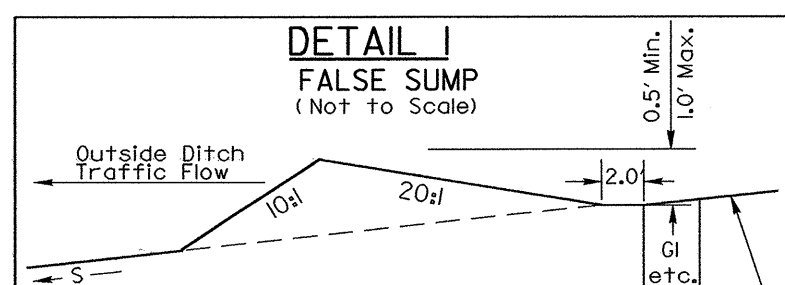
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R-2320G	EC-28/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



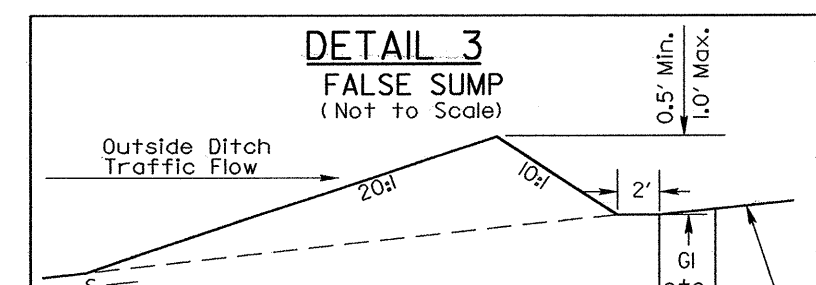
-LREV- STA. 61+95 RT.
30 LF @ 3.0% DDE = 3 CY
-LREV- STA. 68+15 RT.
75 LF @ 3.7% DDE = 10 CY
-LREV- STA. 69+00 LT.
160 LF @ 0.2% DDE = 25 CY
-LREV- STA. 72+40 TO 72+75 LT.
35 LF @ 0.25% DDE = 15 CY



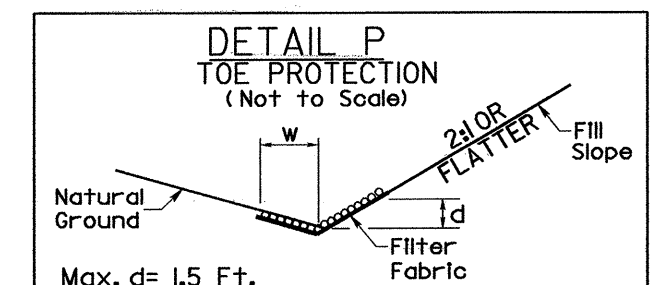
-LREV- STA. 62+70 TO 66+50 LT.
-LREV- STA. 67+00 TO 68+00 RT.



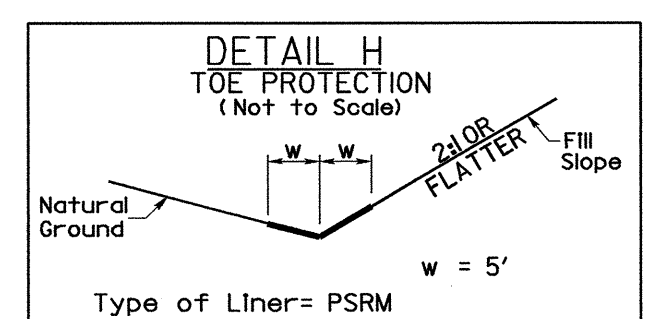
-LREV- STA. 69+00 RT.
-LREV- STA. 69+50 LT.



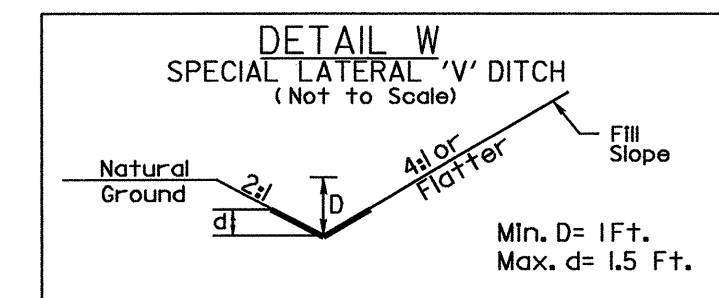
-LREV- STA. 72+20 LT.



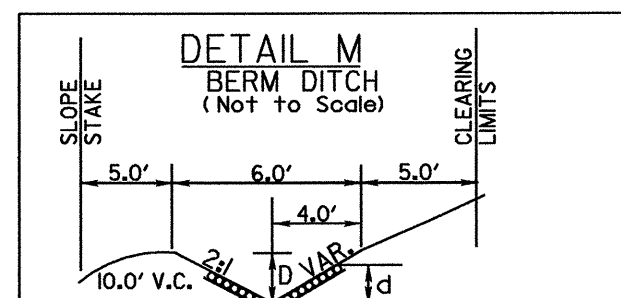
-LREV- STA. 73+50 TO 76+00 RT.
CL. B RIPRAP = 115 TONS
FILTER FABRIC = 325 SY



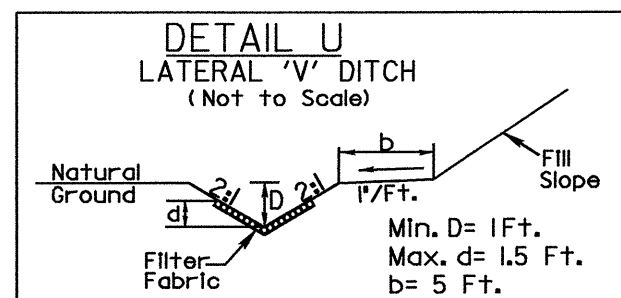
-LREV- STA. 61+35 TO 62+35 LT.



-LREV- STA. 61+00 TO 61+50 RT.



-LREV- STA. 58+50 TO 61+50 RT.



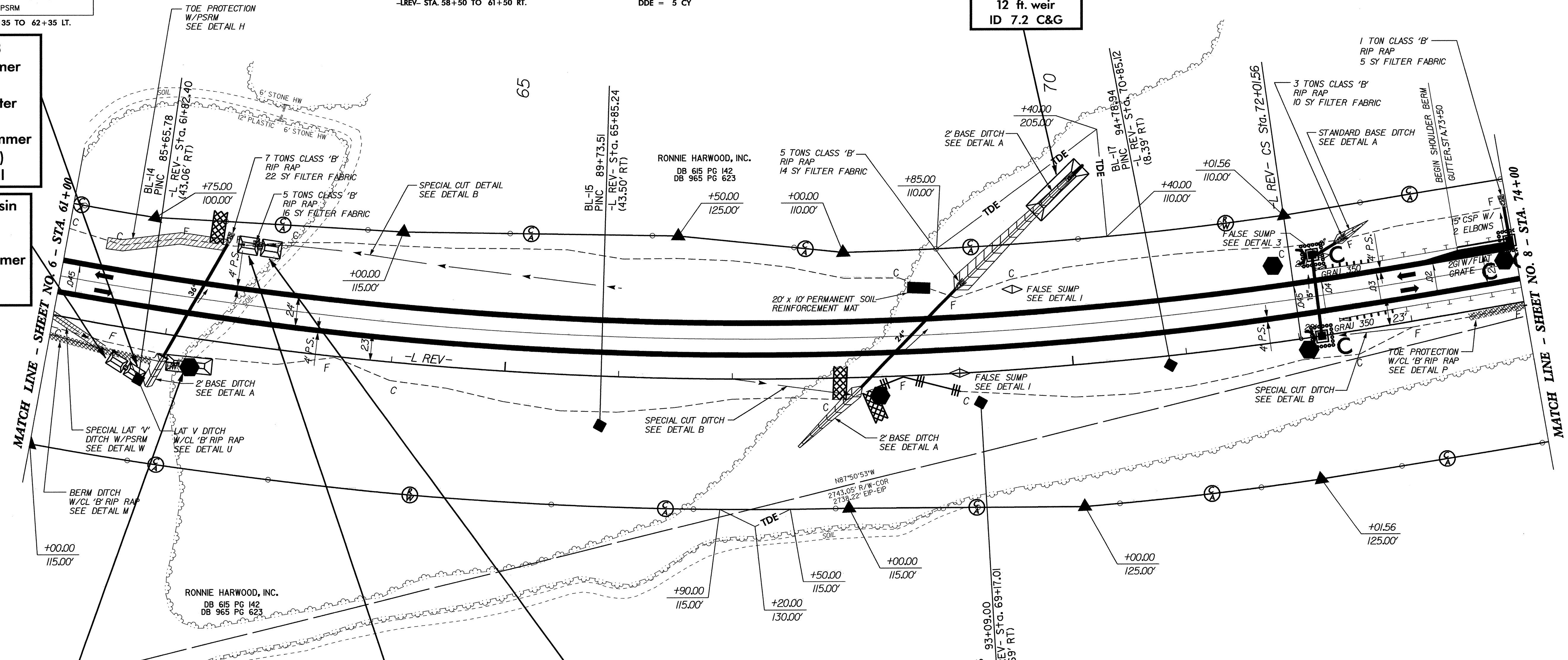
-LREV- STA. 61+50 TO 61+95 RT.
CL. B RIPRAP = 21 TONS
FILTER FABRIC = 58 SY
DDE = 5 CY

NAD 83
GRID

59 x 19 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
12 ft. weir
ID 7.2 C&G

17 x 12 x 3
1.5 inch Skimmer
with 1 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 7.3 Final

Modified Silt Basin
Type 'B'
17 x 12 x 3
(See Tiered Skimmer
Basin Detail)
ID 7.3



40 x 14 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 7.2 Final

24 x 15 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
5 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 7.1 Final

Modified Silt Basin
Type 'B'
24 x 15 x 3
(See Tiered Skimmer
Basin Detail)
ID 7.1 Final

8/17/99
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ENCLOSURE: ALL

PROJECT REFERENCE NO. R-2320G		SHEET NO. EC-29/CONST.8	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

8/17/99
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RAMONA H. SPEIGHT
DB 158 PG 202
DB 357 PG 705

BETTY PENNINGTON MASON
DB 582 PG 554

HERMAN MASON & WF.
ELSIE W. MASON
DB 265 PG 382

BEGIN CONSTRUCTION
-Y3- STA 13+00

48 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
ID 8.3 C&G

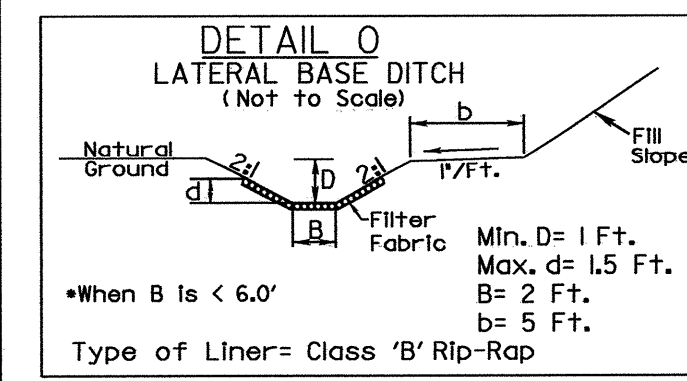
40 x 12 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
4 ft. weir
ID 8.2 C&G

23 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
12 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.1 C&G

Modified Silt Basin
Type 'B'
23 x 16 x 3
(See Tiered Skimmer
Basin Detail)
ID 8.1

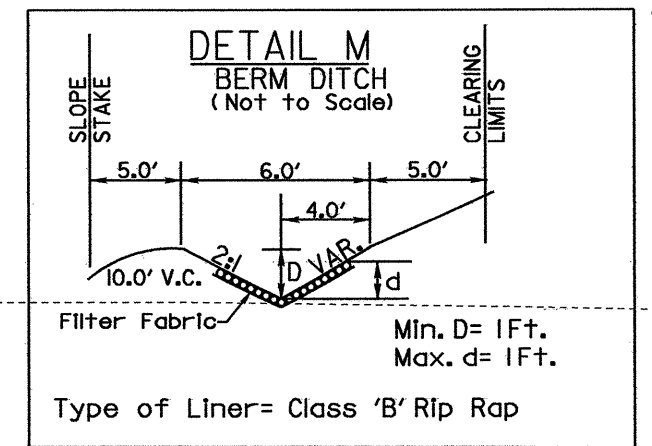
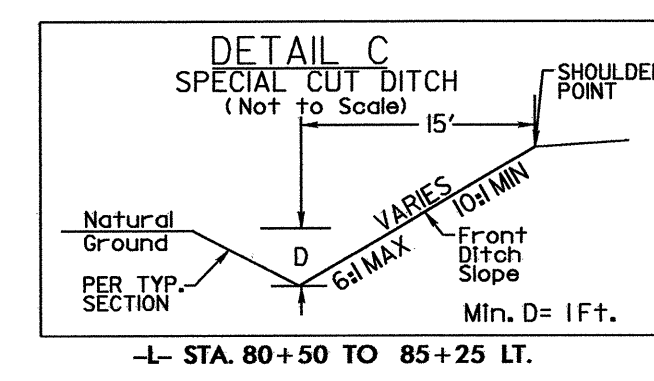
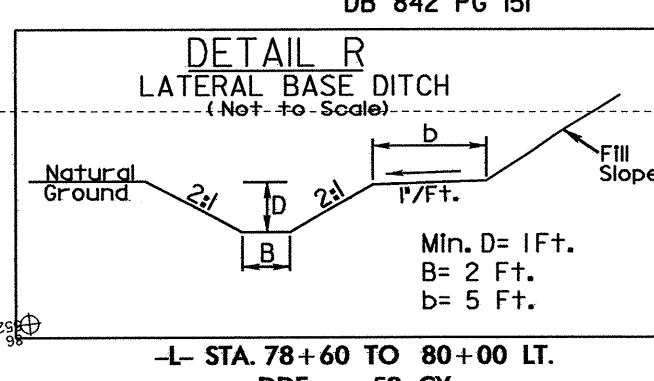
29 x 9 x 3
ID 8.2 Final

39 x 12 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
4 ft. weir
ID 8.4 C&G

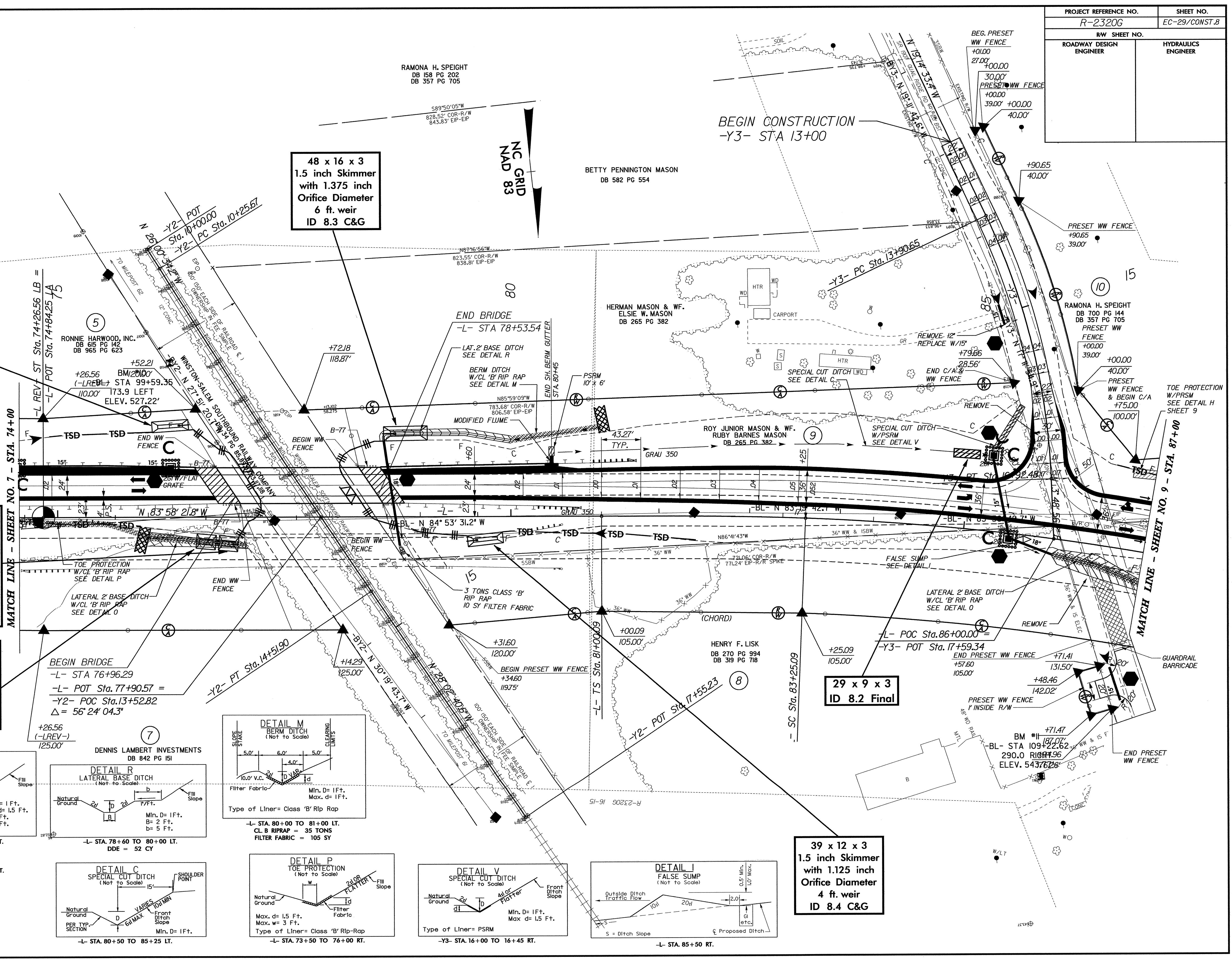
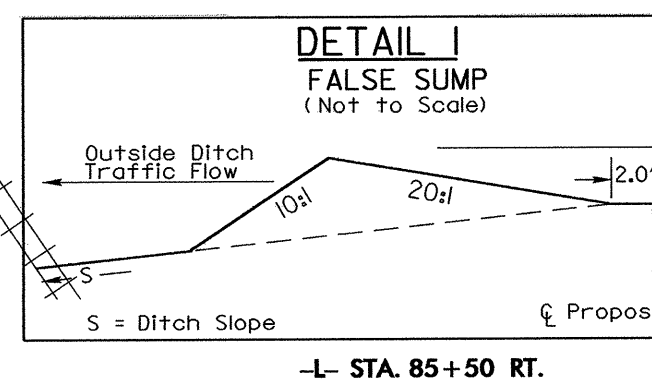
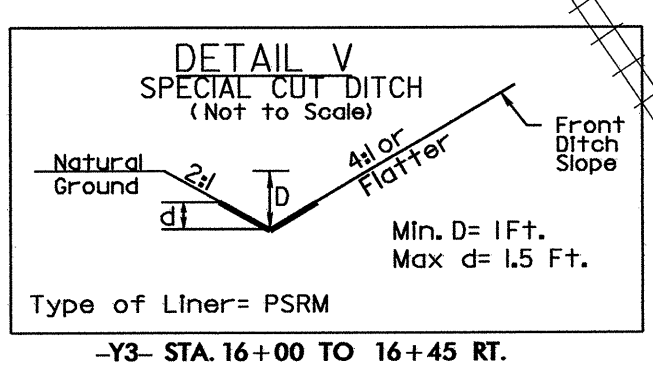
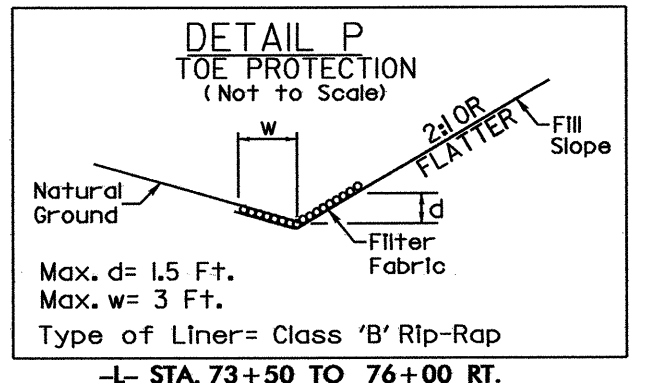


-L- STA. 76+00 TO 77+10 RT.
CL. B RIPRAP = 62 TONS
FILTER FABRIC = 167 SY
DDE = 75 CY

-L- STA. 86+00 TO 87+00 RT.
CL. B RIPRAP = 56 TONS
FILTER FABRIC = 152 SY
DDE = 278 CY



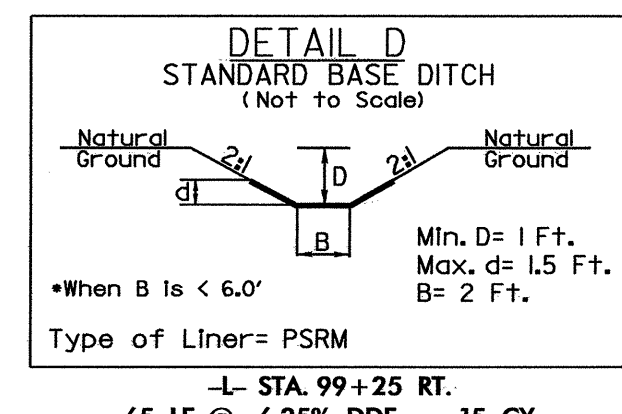
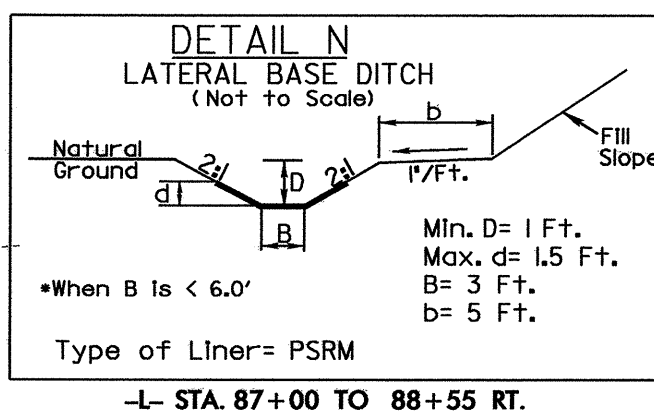
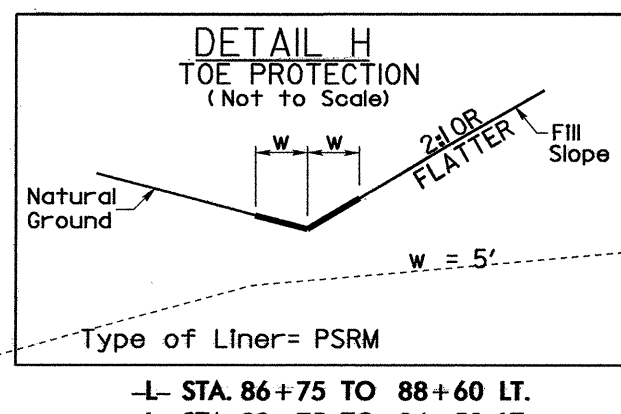
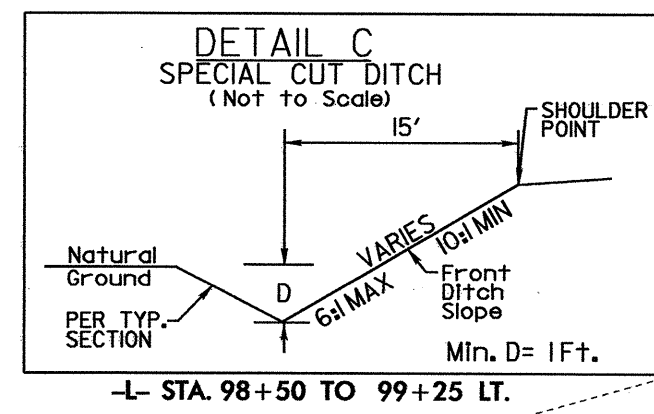
-L- STA. 80+00 TO 81+00 LT.
CL. B RIPRAP = 35 TONS
FILTER FABRIC = 105 SY



MATCH LINE - SHEET NO. 7 - STA. 74+00

MATCH LINE - SHEET NO. 9 - STA. 87+00

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-30/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



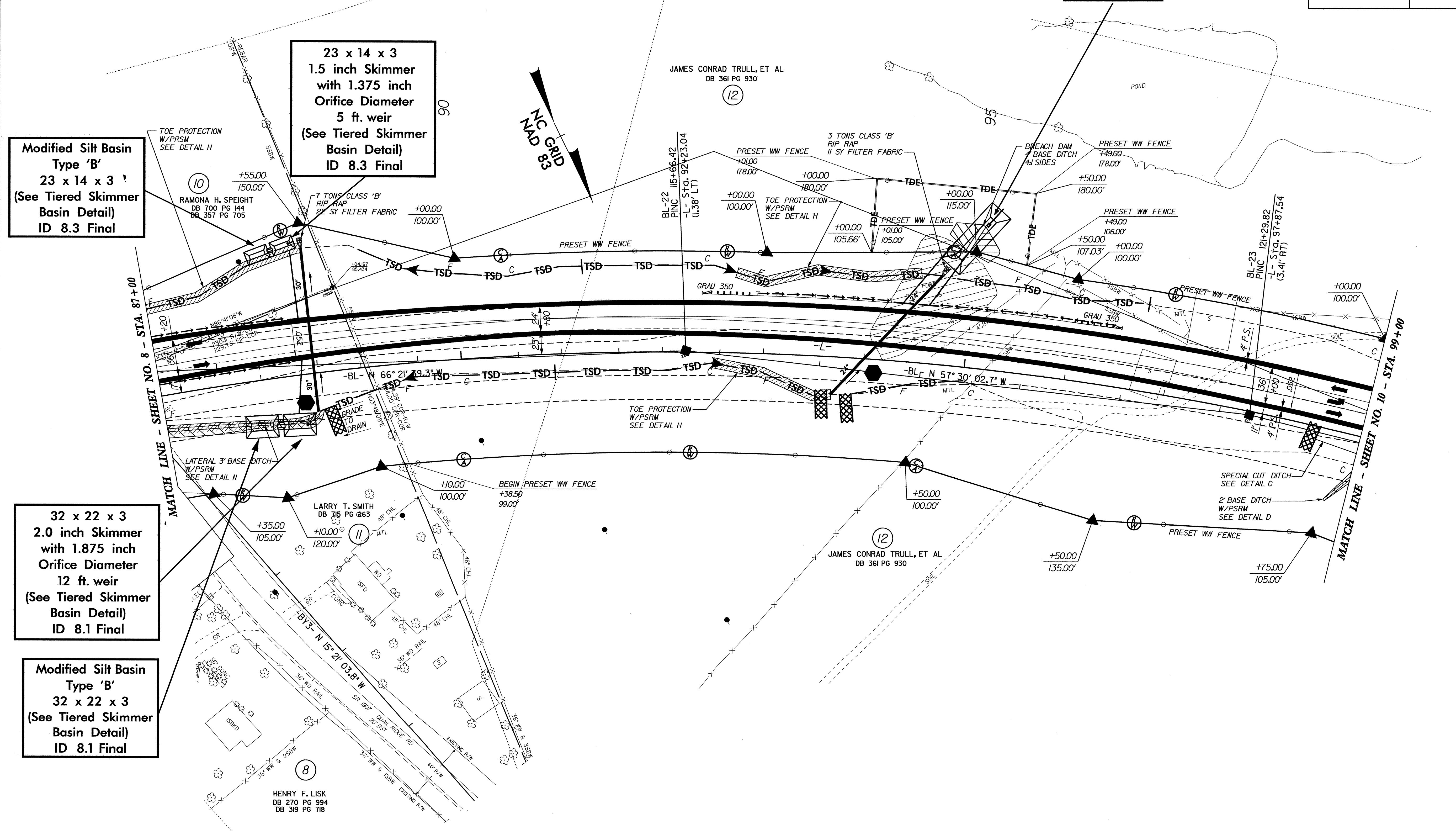
**75 x 25 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
14 ft. weir
ID 9.2 C&G**

**23 x 14 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
5 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.3 Final**

**Modified Silt Basin
Type 'B'
23 x 14 x 3
(See Tiered Skimmer
Basin Detail)
ID 8.3 Final**

**32 x 22 x 3
2.0 inch Skimmer
with 1.875 inch
Orifice Diameter
12 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.1 Final**

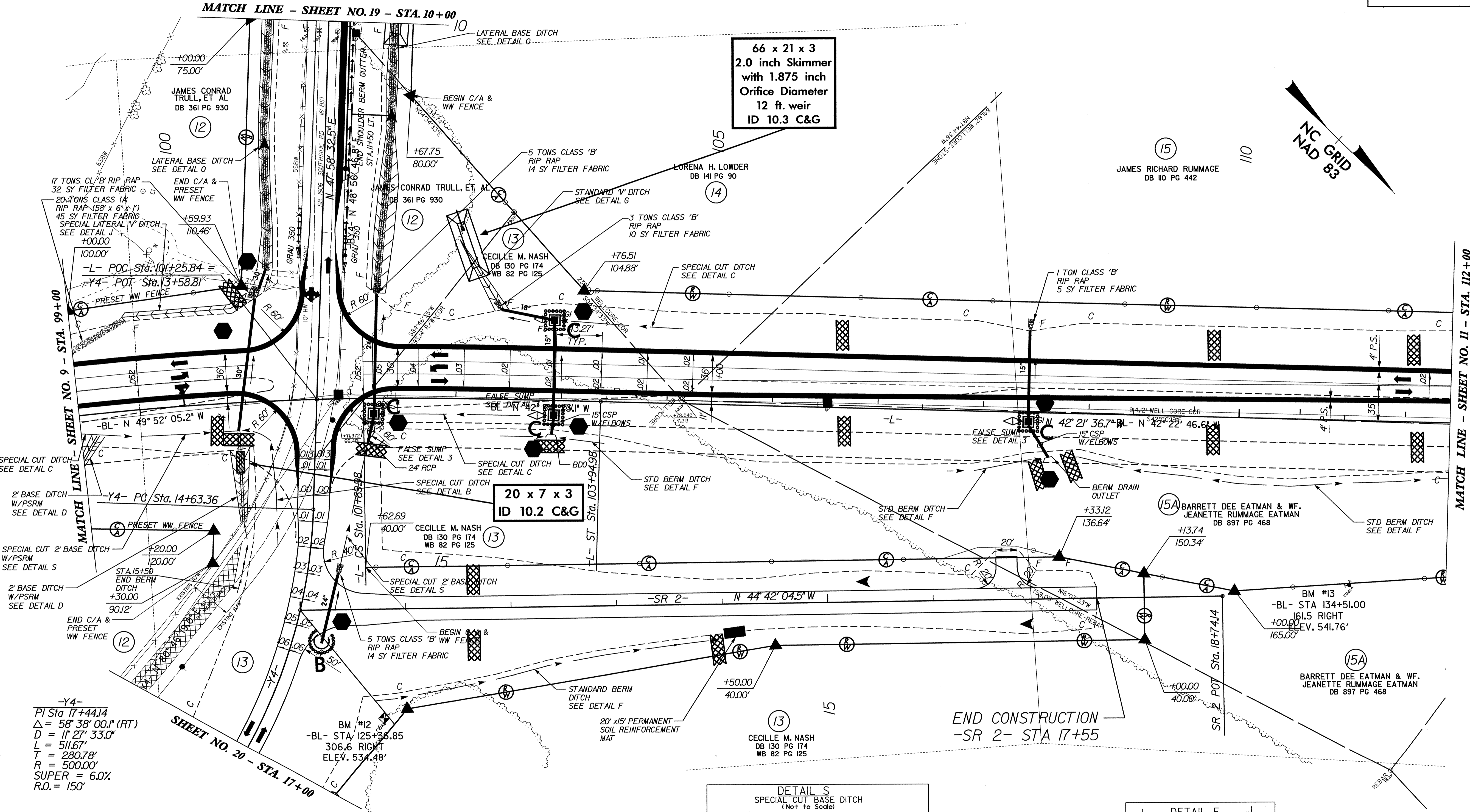
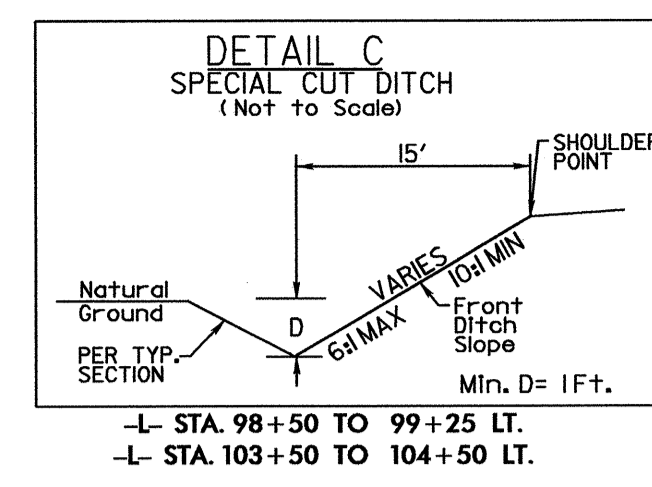
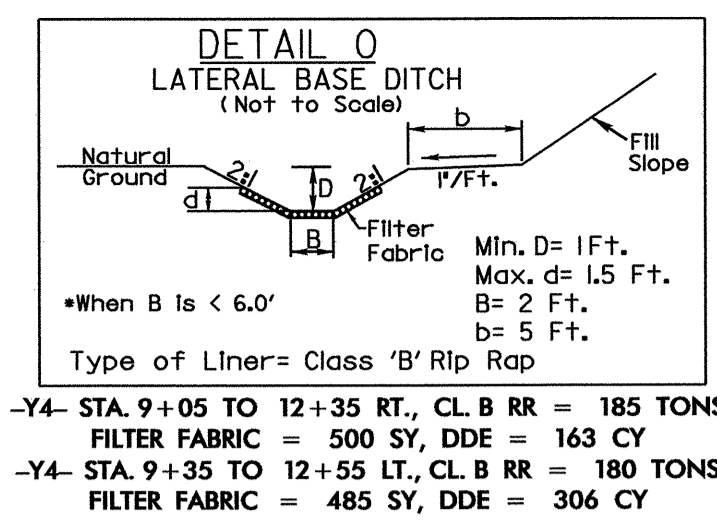
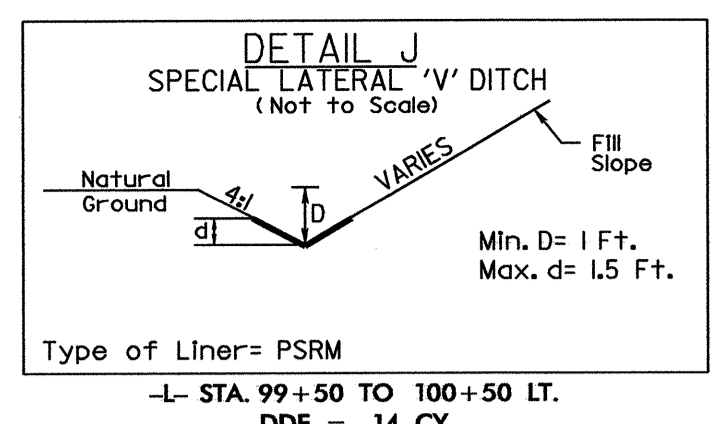
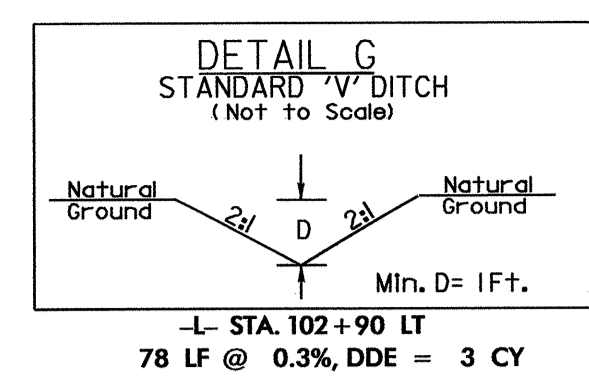
**Modified Silt Basin
Type 'B'
32 x 22 x 3
(See Tiered Skimmer
Basin Detail)
ID 8.1 Final**



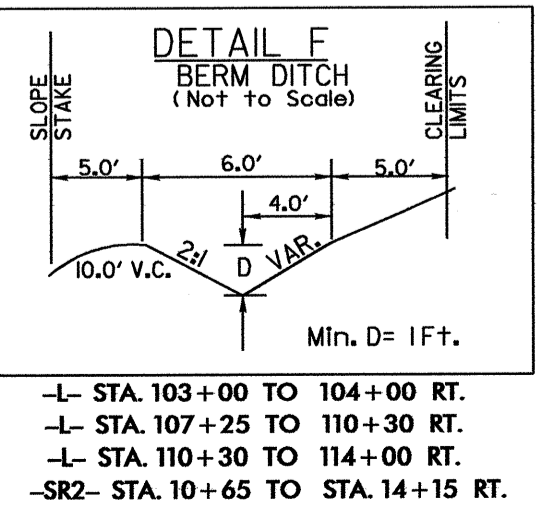
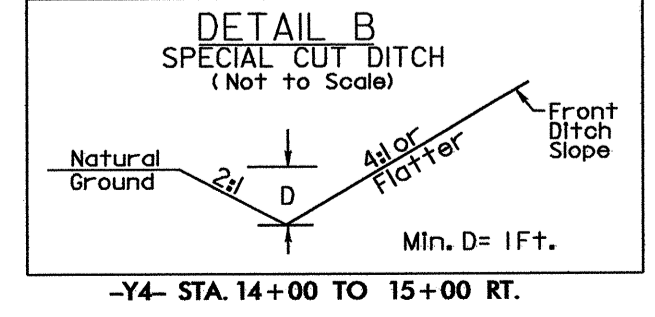
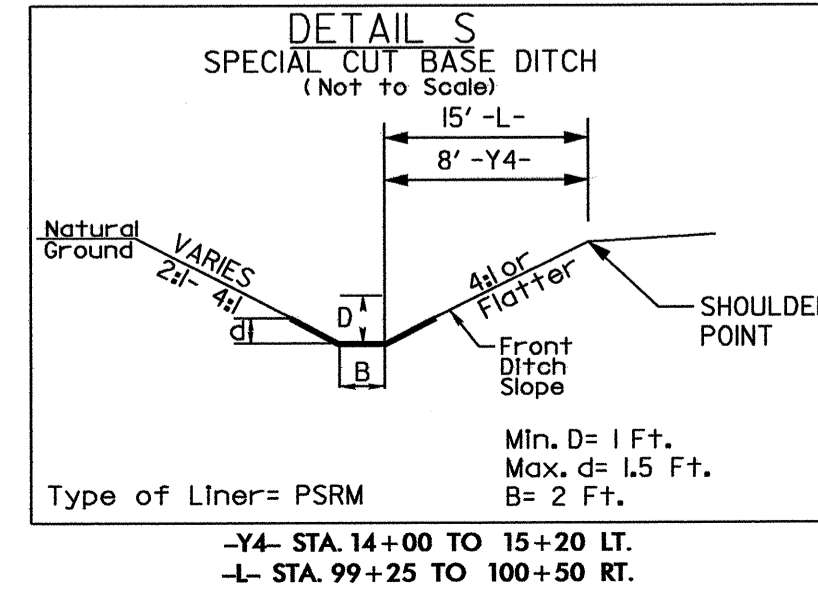
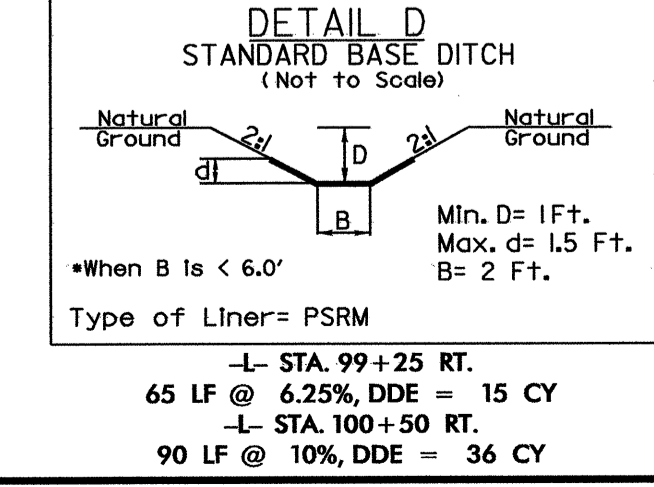
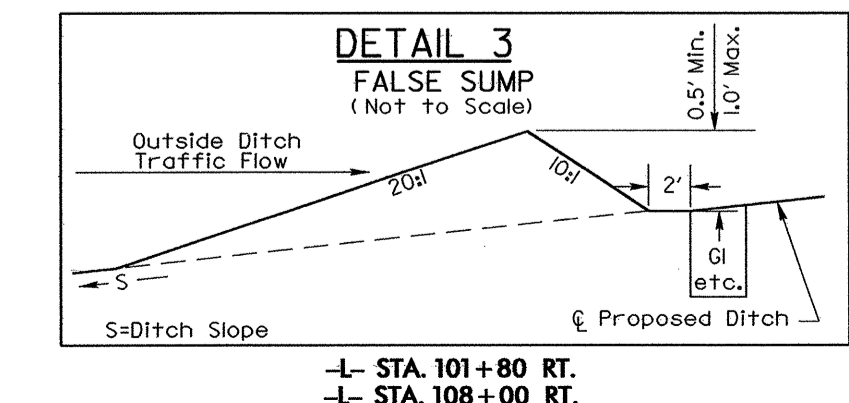
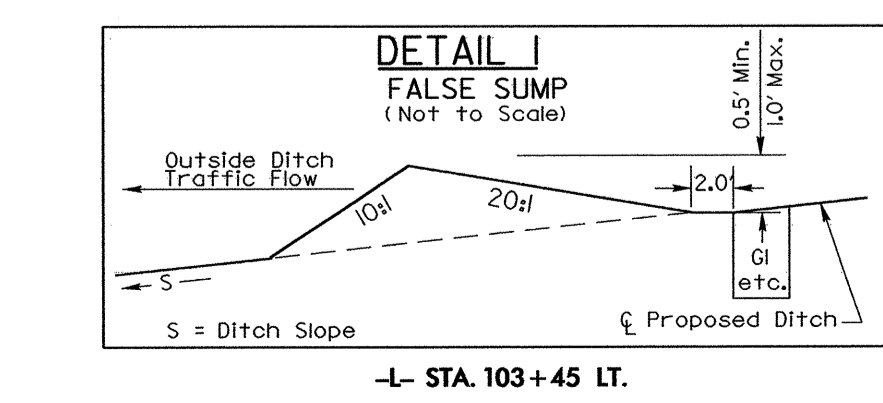
SEE SHEET NO. 27 FOR -L- PROFILE

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PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-31/CONST-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

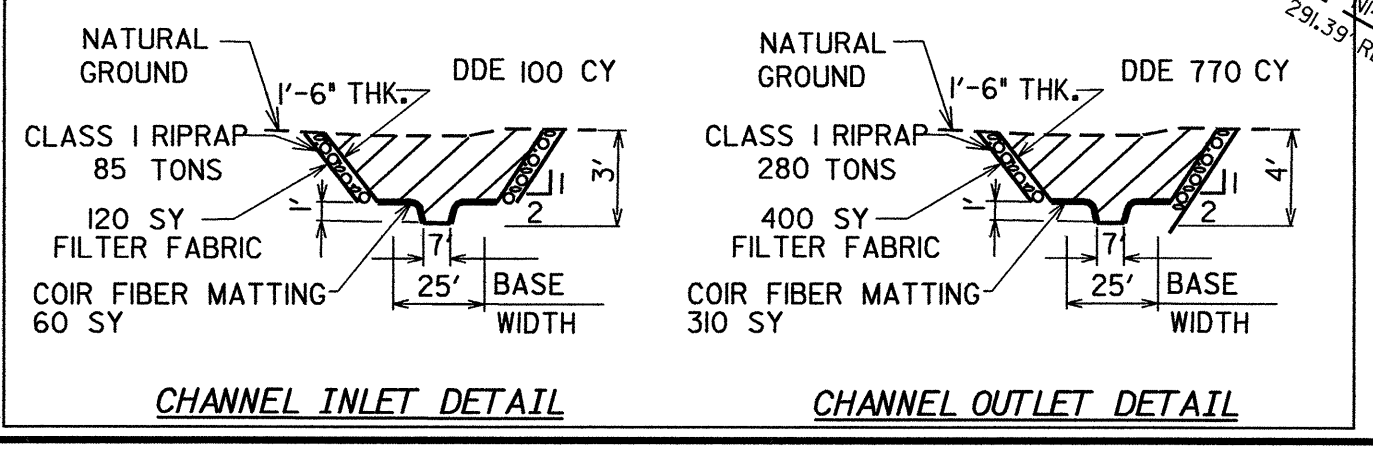
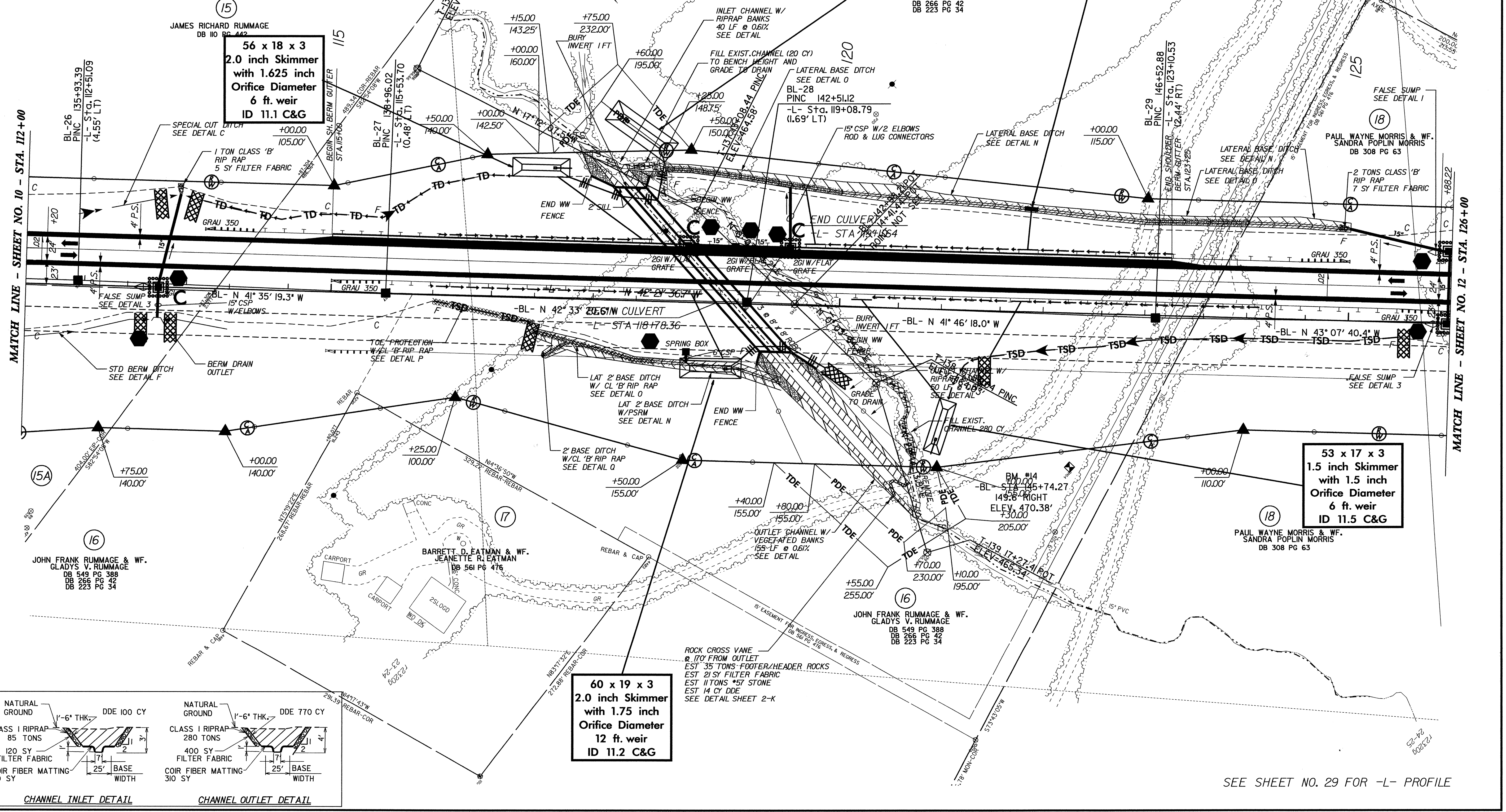
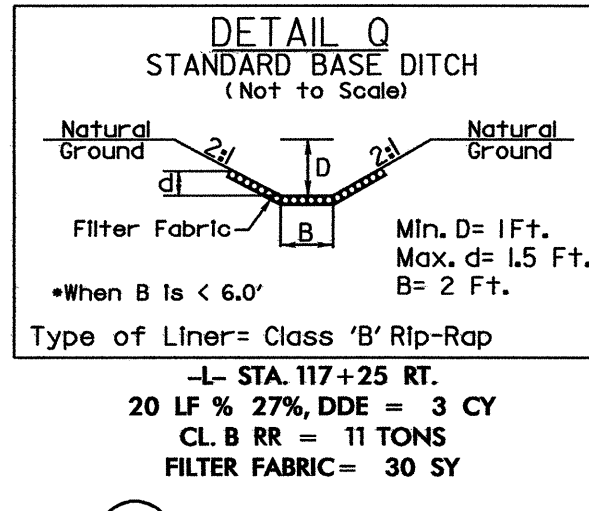
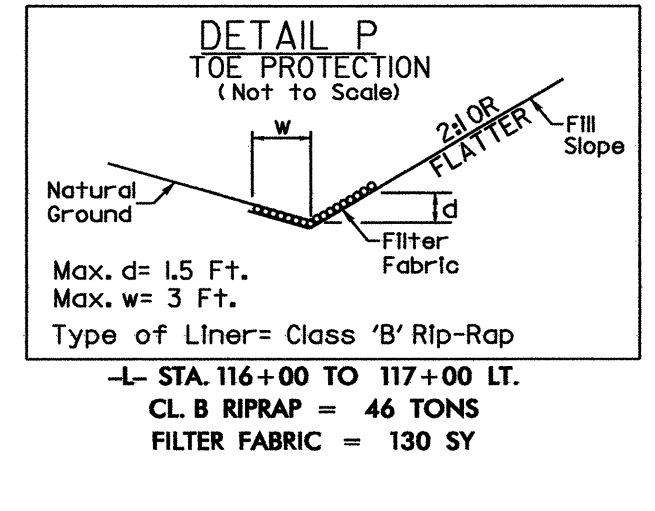
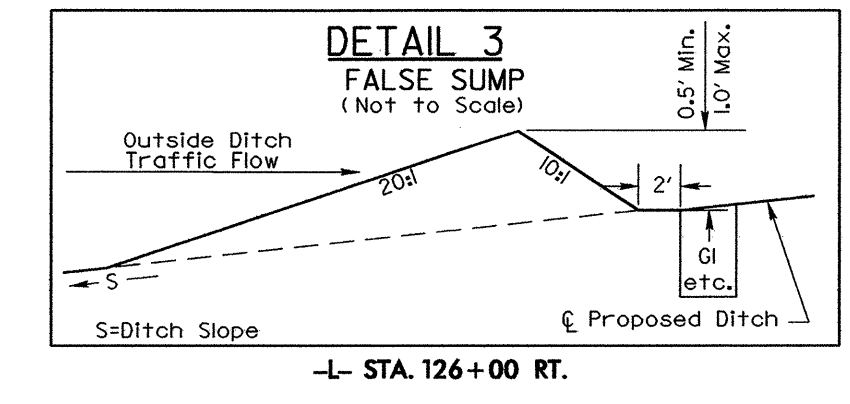
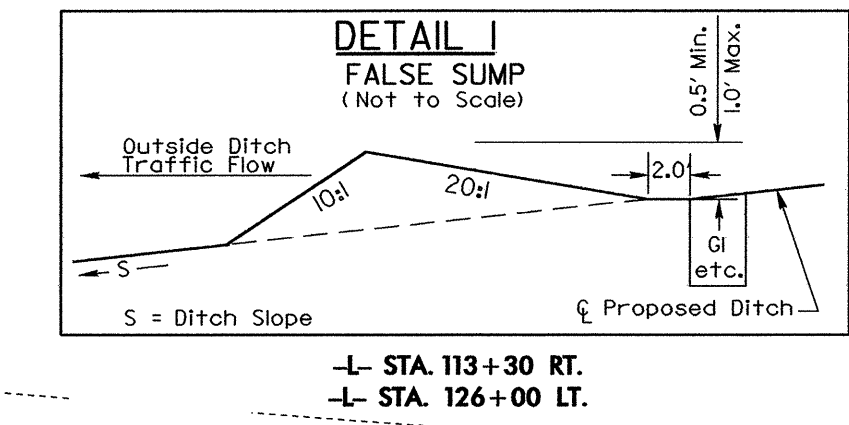
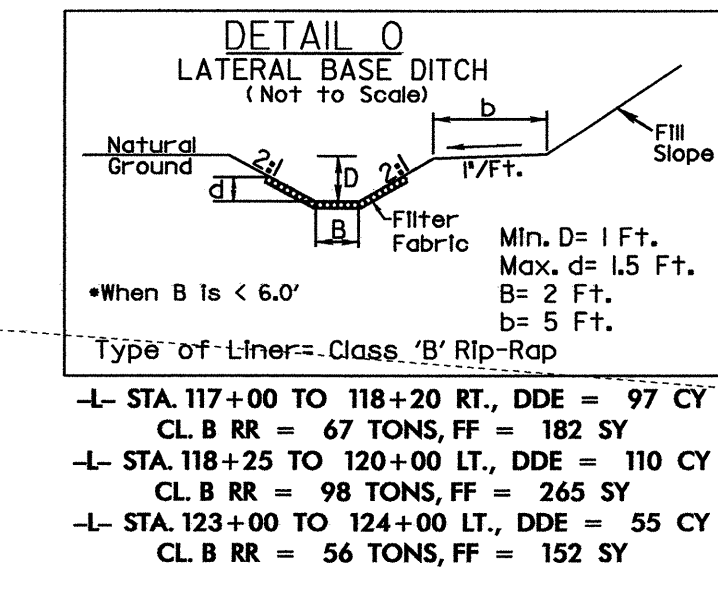
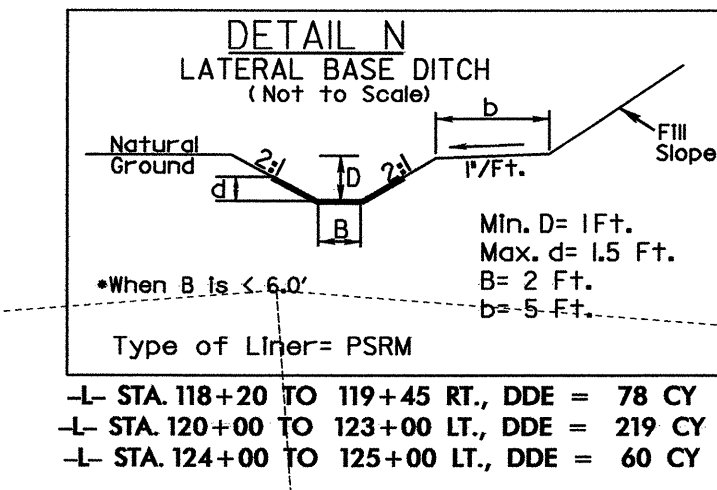
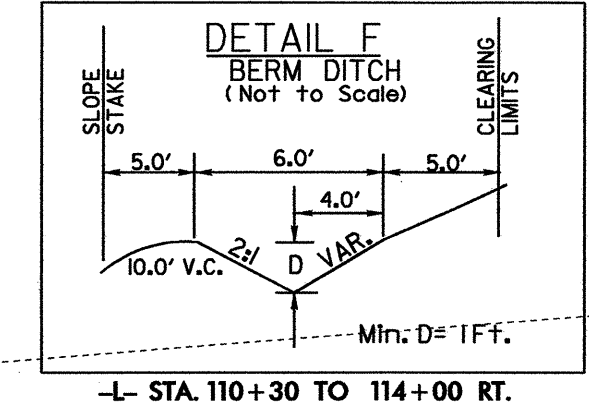
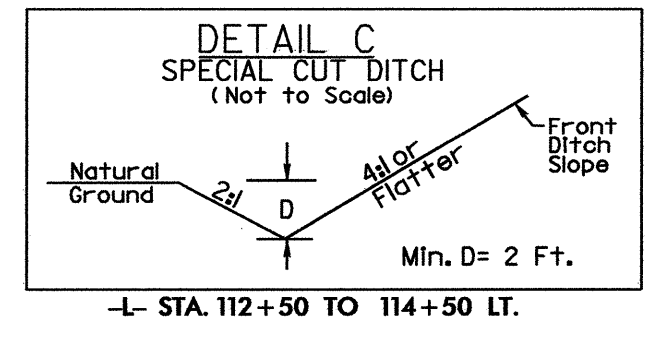


-Y4-
PI Sta 17+44.14
Δ = 58° 38' 00" (RT)
D = 11' 27" 33.0"
L = 511.67'
T = 280.78'
R = 500.00'
SUPER = 6.0%
R.O. = 150'



8/17/99
 I:\FEB-2008\16a2\1\des\cvt\2320g_rsu.psh_10.dgn
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MATCH LINE - SHEET NO. 11 - STA. 112+00

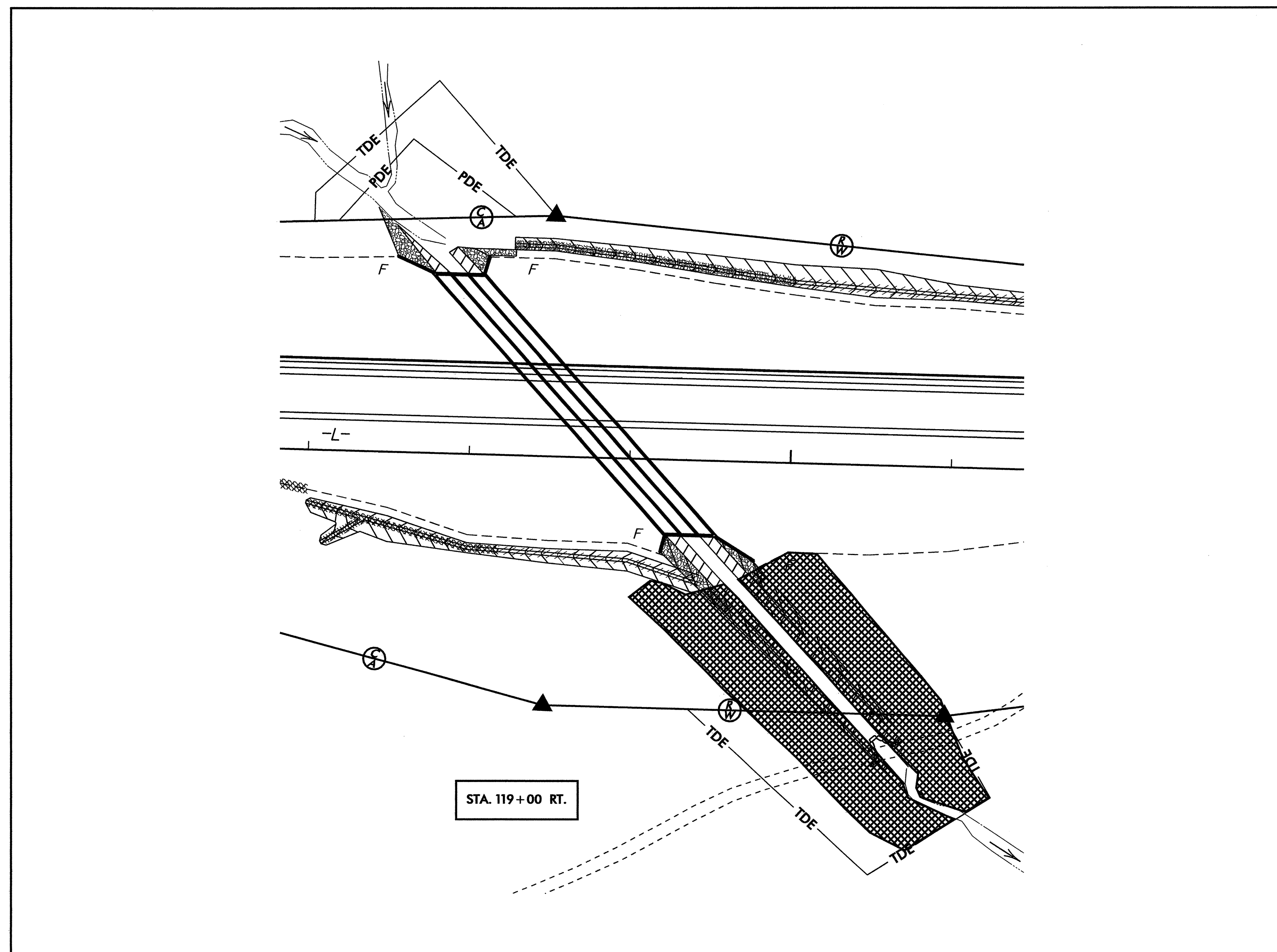


SEE SHEET NO. 29 FOR -L- PROFILE

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 AL 1/23/08

0.29 ACRE STREAMBANK REFORESTATION

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-33/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-34/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

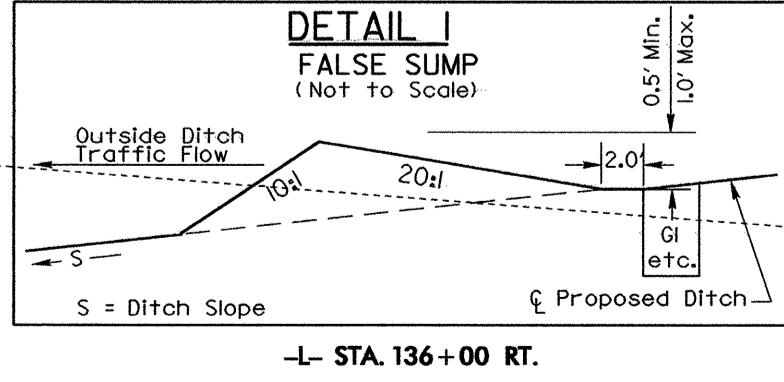
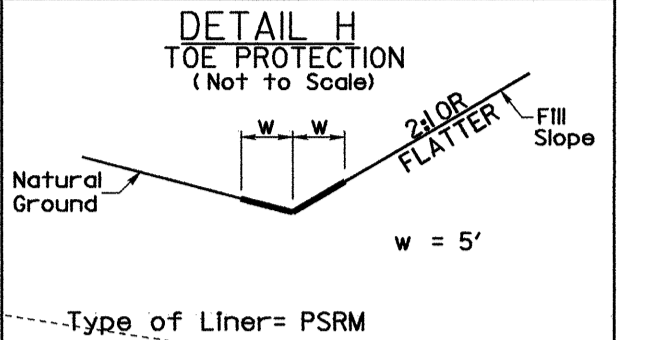
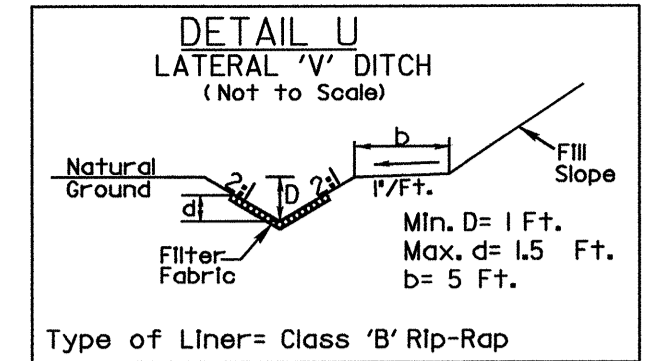
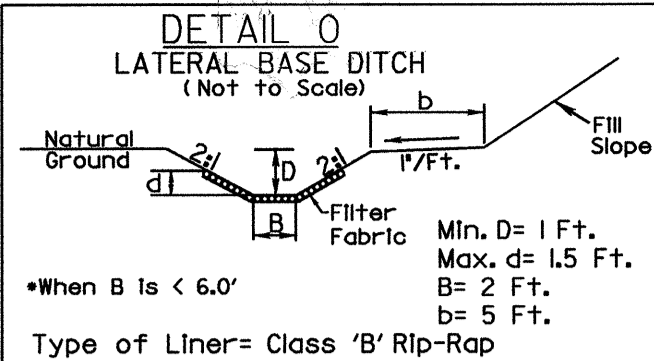
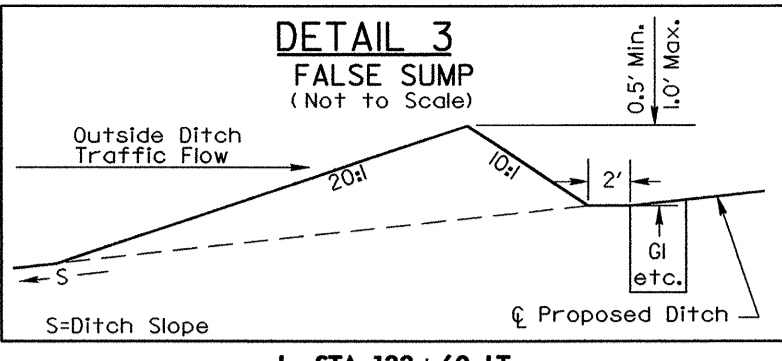
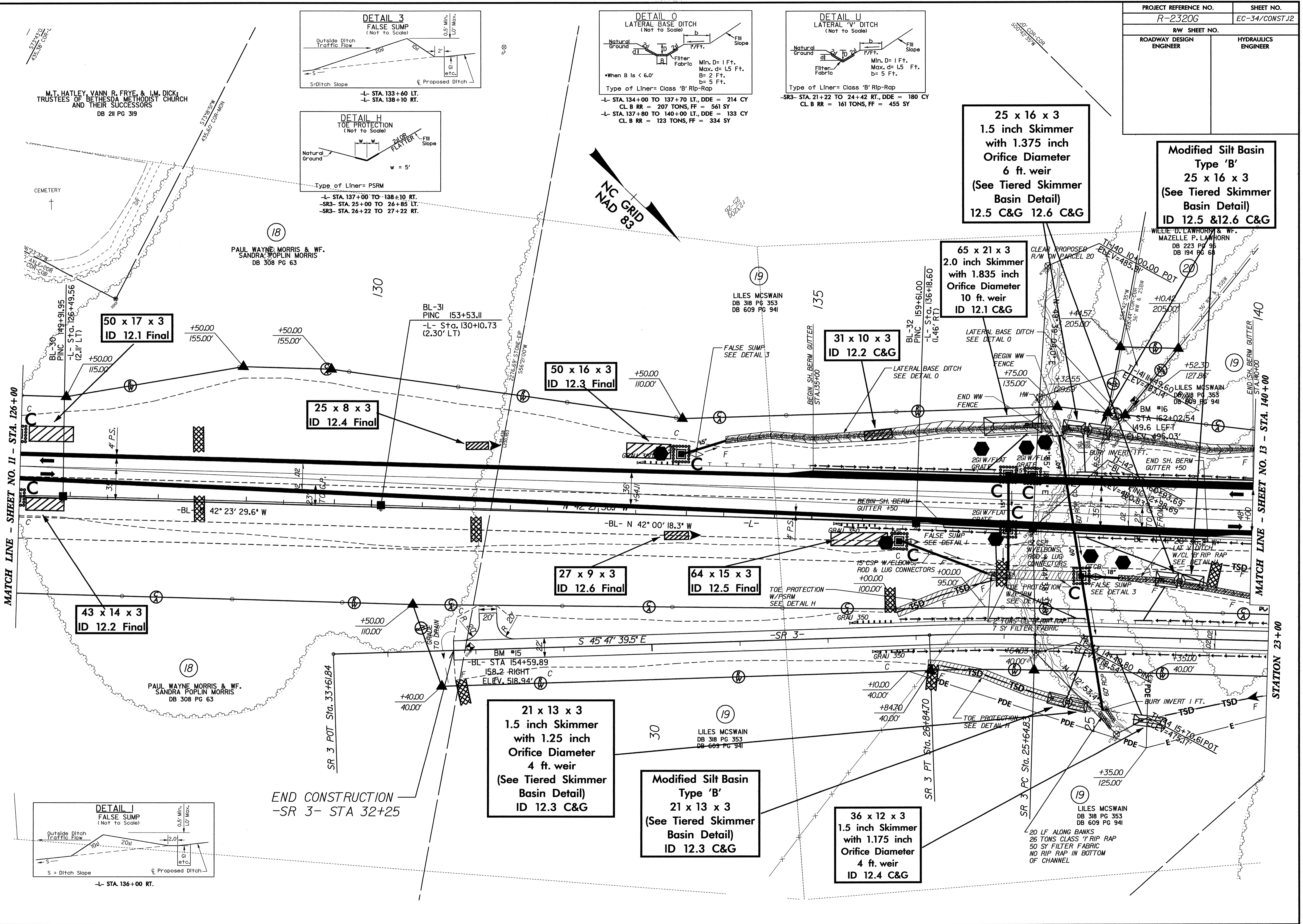
M.T. HATLEY, VANN R. FRYE, & I.M. DICK
TRUSTEES OF BETHESDA METHODIST CHURCH
AND THEIR SUCCESSORS
DB 211 PG 319

PAUL WAYNE MORRIS & WF.
SANDRA POPLIN MORRIS
DB 308 PG 63

LILES MCSWAIN
DB 318 PG 353
DB 609 PG 941

WILLIE D. LAWHORN & WF.
MAZELLE P. LAWHORN
DB 223 PG 96
DB 194 PG 68

8/17/99
12-FEB-2008 13:38
c:\environment\design\2320g_reu_psh_12.dgn
12:11:24



25 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
12.5 C&G 12.6 C&G

Modified Silt Basin
Type 'B'
25 x 16 x 3
(See Tiered Skimmer
Basin Detail)
ID 12.5 & 12.6 C&G

65 x 21 x 3
2.0 inch Skimmer
with 1.835 inch
Orifice Diameter
10 ft. weir
ID 12.1 C&G

31 x 10 x 3
ID 12.2 C&G

50 x 16 x 3
ID 12.3 Final

25 x 8 x 3
ID 12.4 Final

27 x 9 x 3
ID 12.6 Final

64 x 15 x 3
ID 12.5 Final

43 x 14 x 3
ID 12.2 Final

21 x 13 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 12.3 C&G

Modified Silt Basin
Type 'B'
21 x 13 x 3
(See Tiered Skimmer
Basin Detail)
ID 12.3 C&G

36 x 12 x 3
1.5 inch Skimmer
with 1.175 inch
Orifice Diameter
4 ft. weir
ID 12.4 C&G

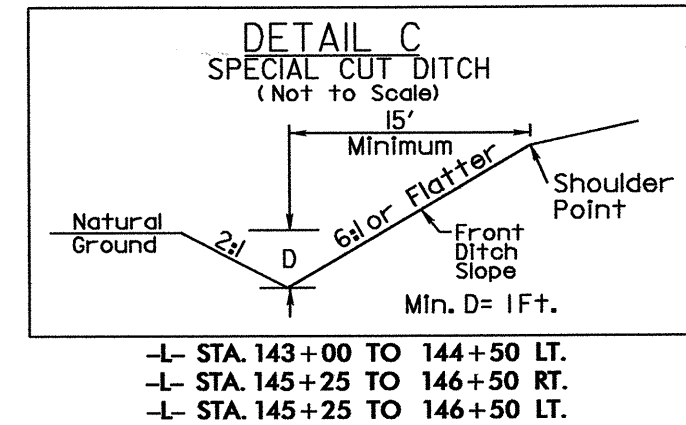
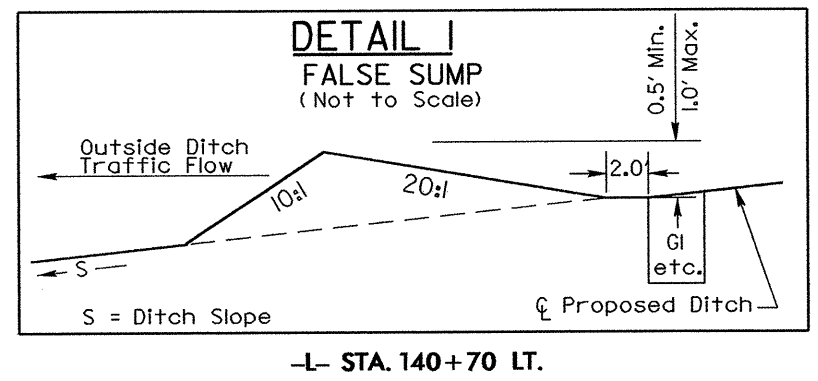
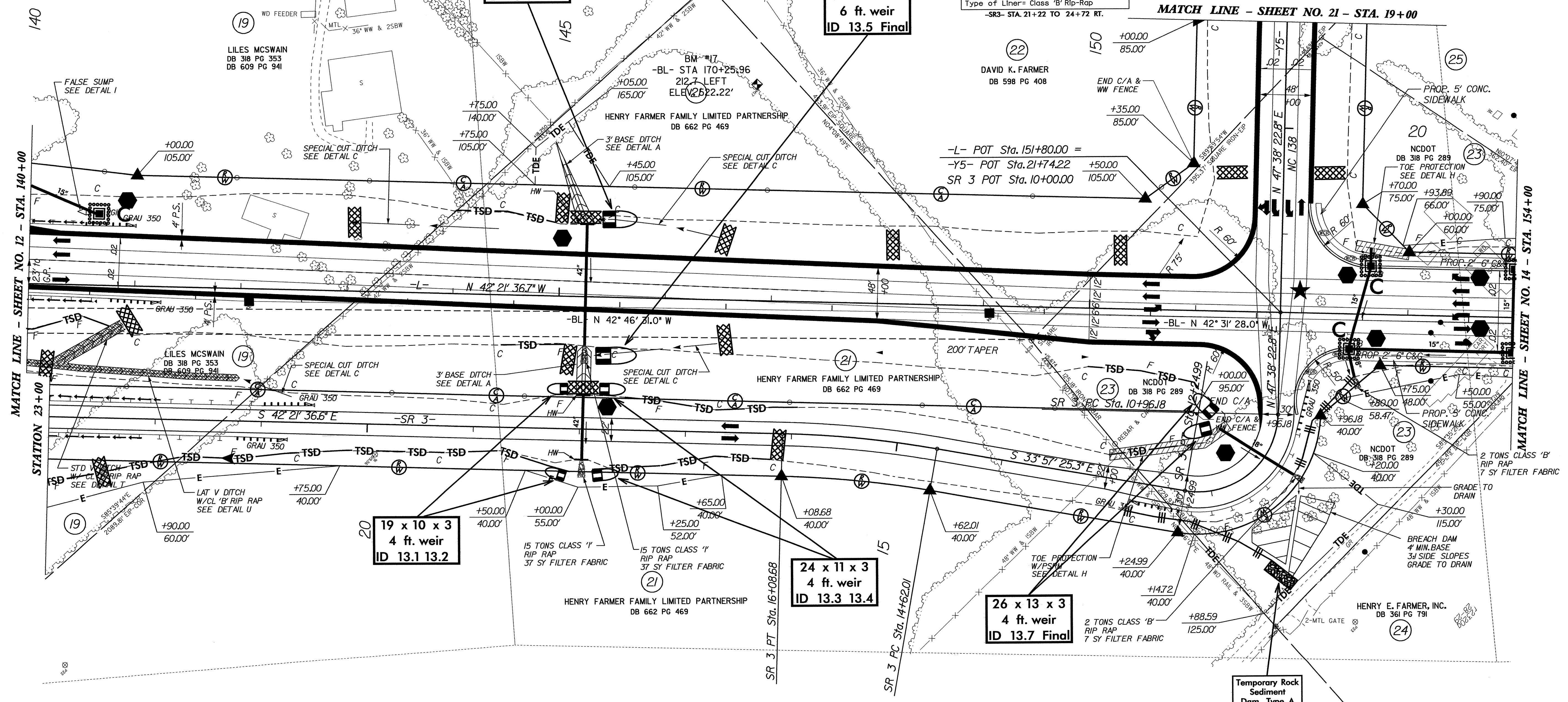
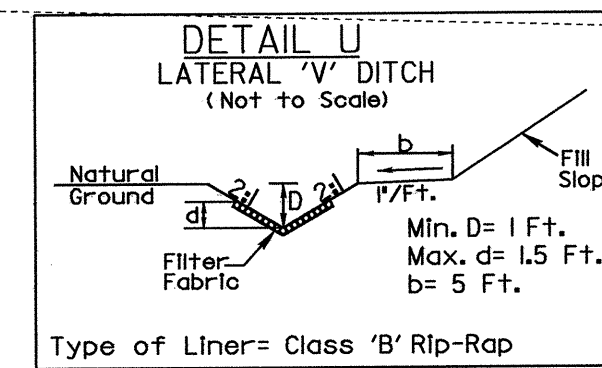
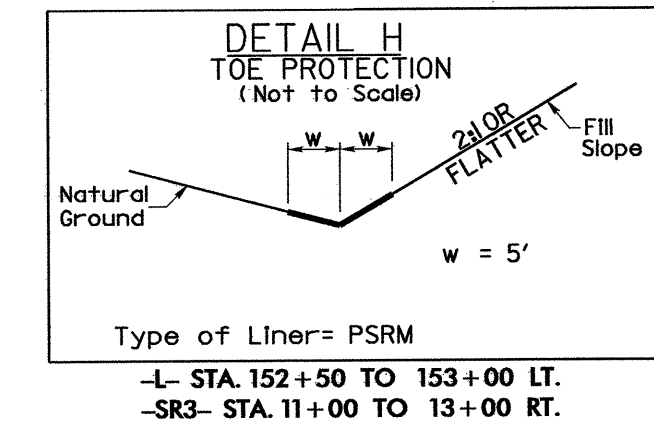
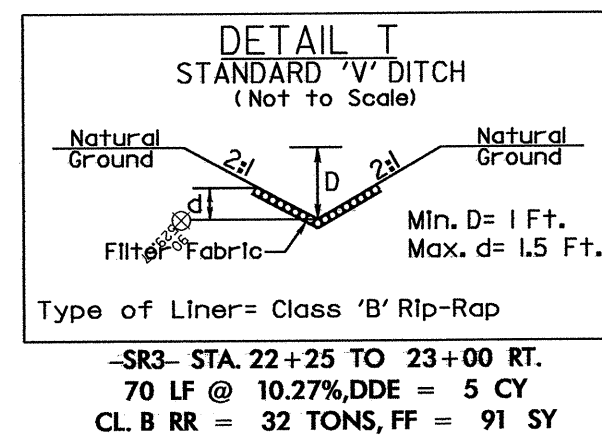
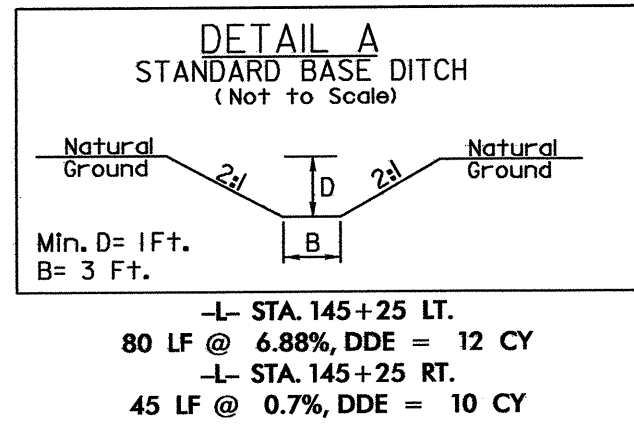
END CONSTRUCTION
-SR 3- STA 32+25

MATCH LINE - SHEET NO. 11 - STA. 126+00

MATCH LINE - SHEET NO. 13 - STA. 140+00

STATION 23+00

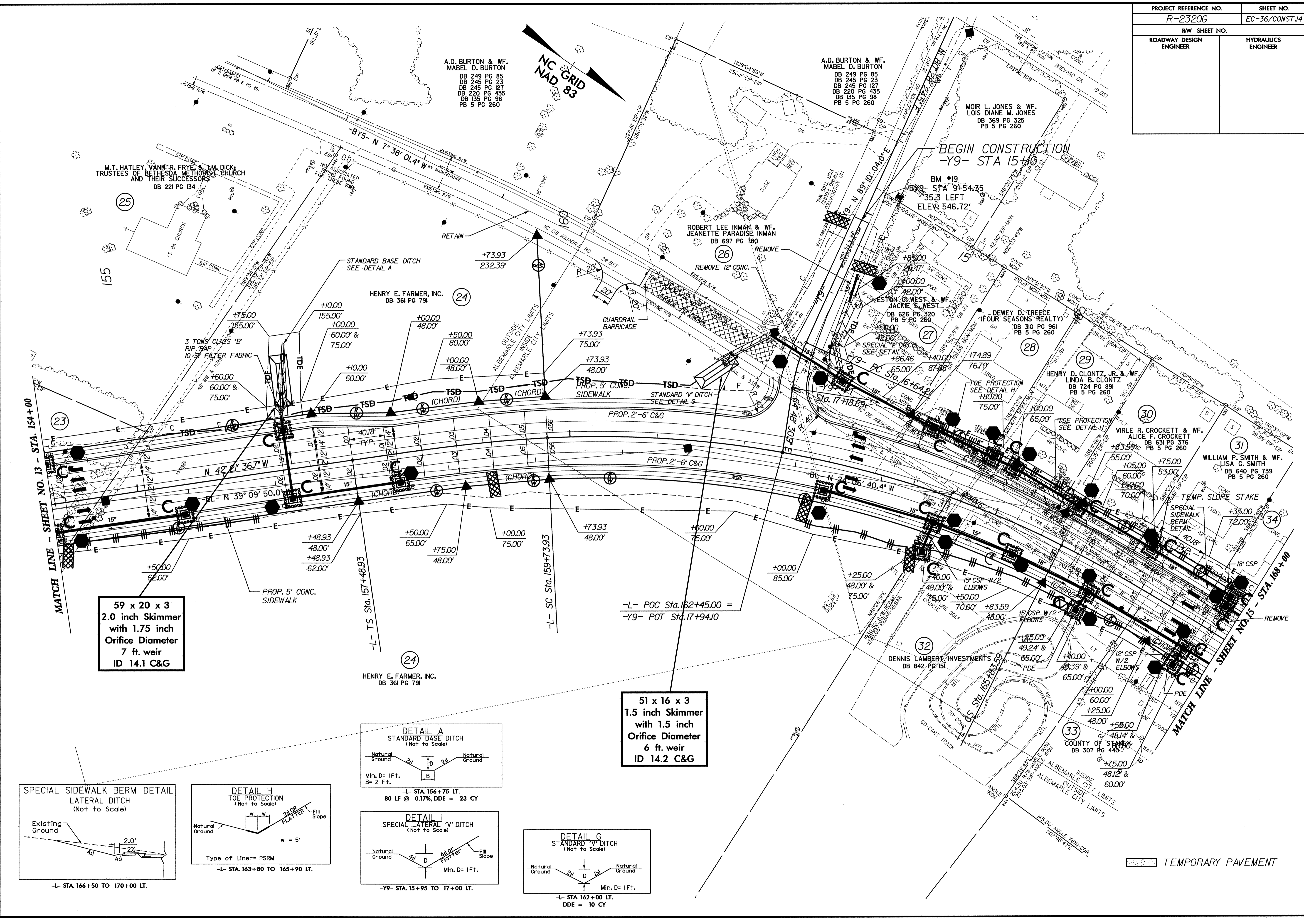
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R-2320G	EC-35/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	STA 140+00 TO STA 152+00



8/17/09

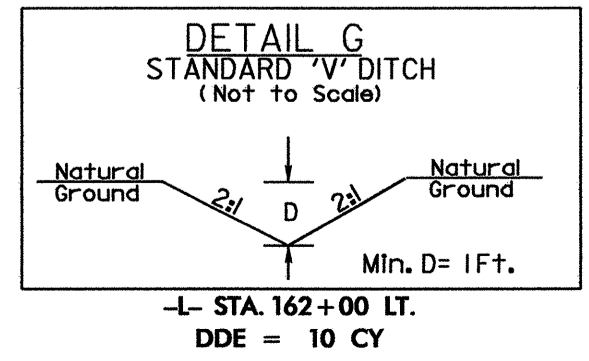
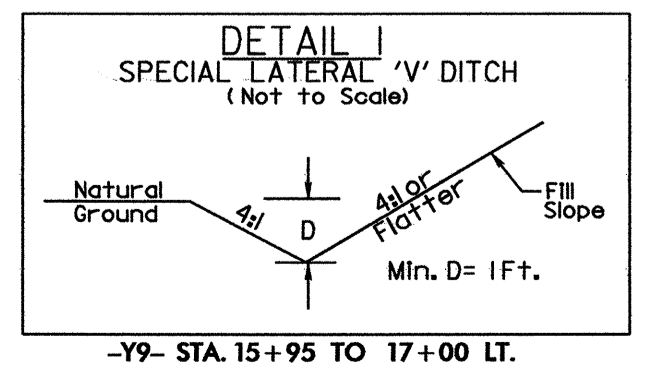
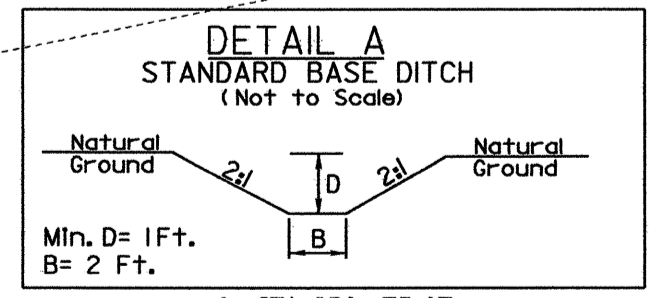
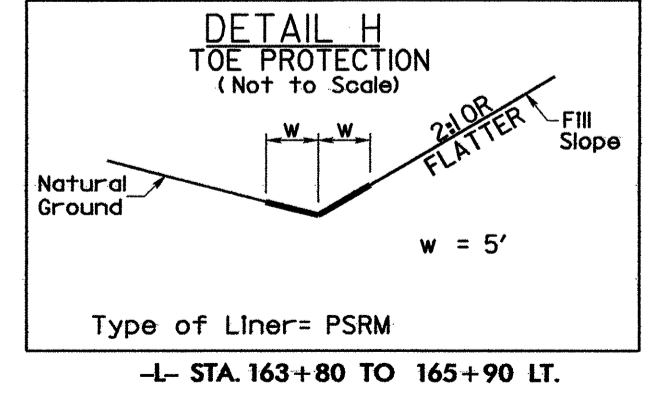
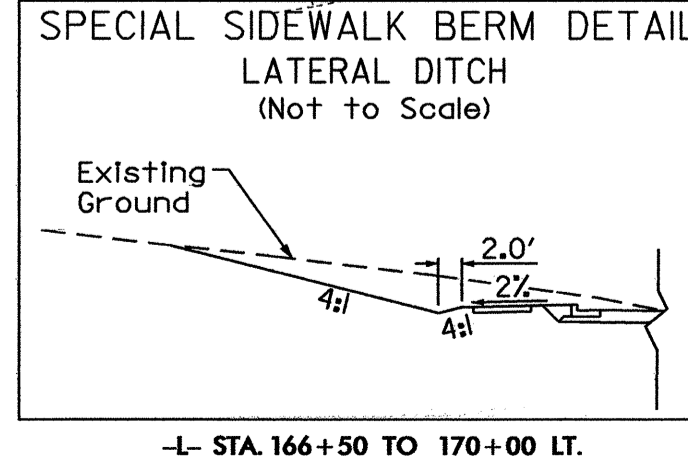
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 AL RANZ 2/13/09

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-36/CONST.14
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



59 x 20 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
7 ft. weir
ID 14.1 C&G

51 x 16 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
6 ft. weir
ID 14.2 C&G

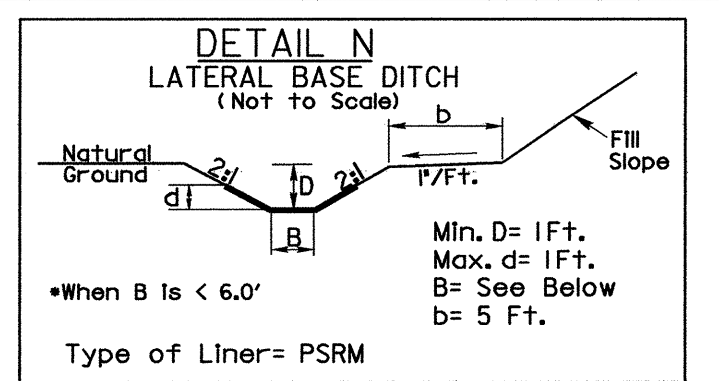


TEMPORARY PAVEMENT

8/17/99

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ALBEMARLE CITY

PROJECT REFERENCE NO.	SHEET NO.
R-2320G	EC-37/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



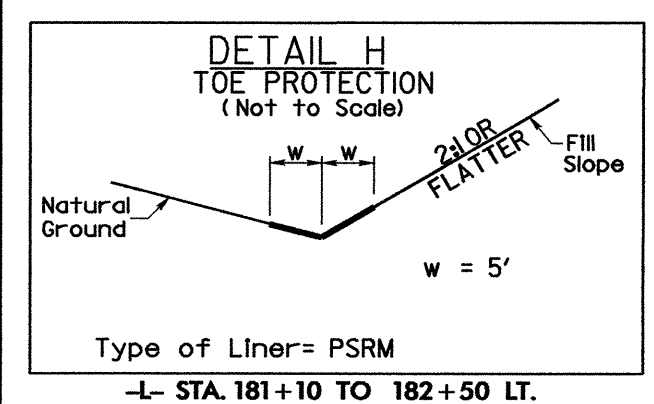
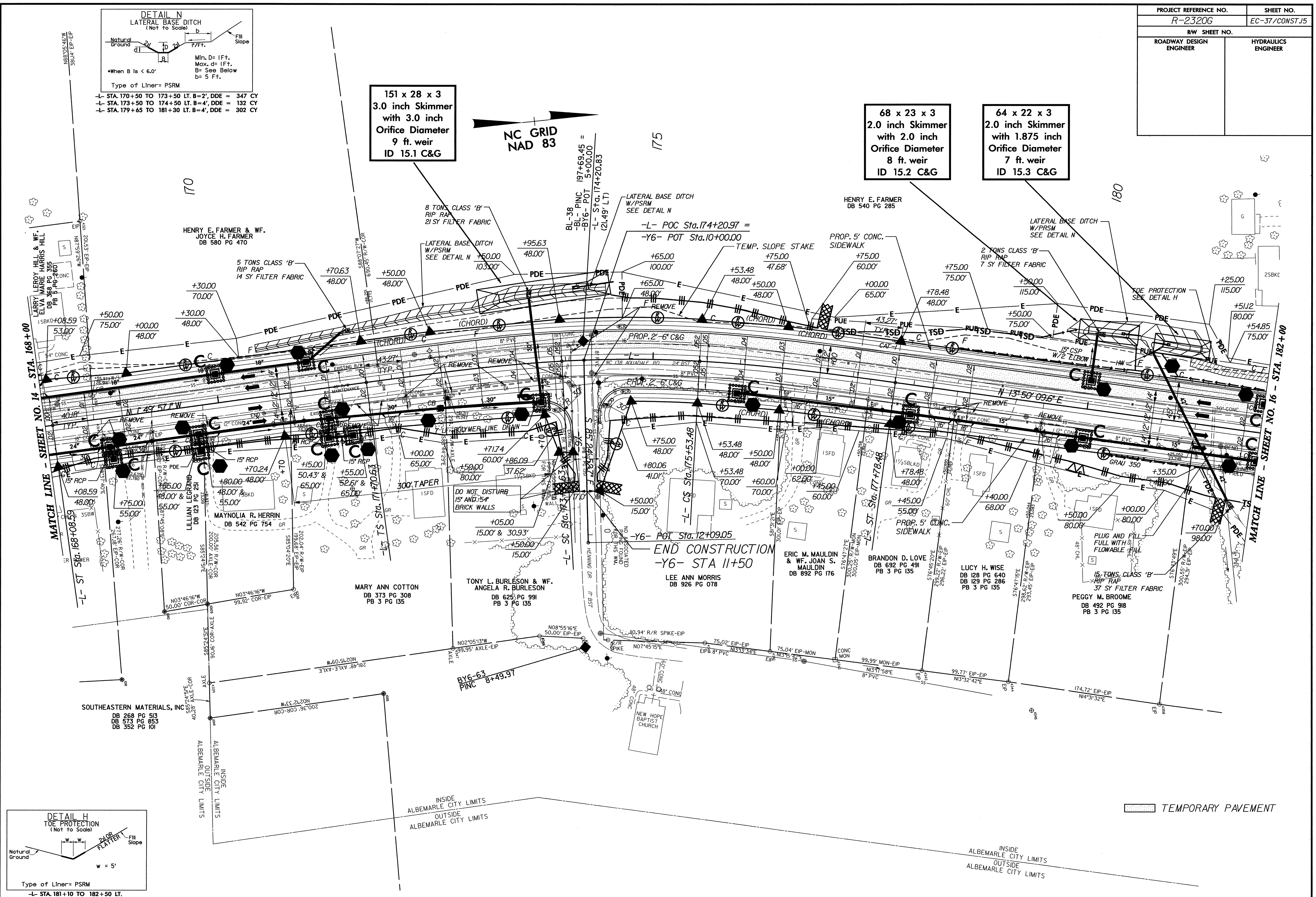
-L- STA. 170+50 TO 173+50 LT. B=2', DDE = 347 CY
 -L- STA. 173+50 TO 174+50 LT. B=4', DDE = 132 CY
 -L- STA. 179+65 TO 181+30 LT. B=4', DDE = 302 CY

151 x 28 x 3
 3.0 inch Skimmer
 with 3.0 inch
 Orifice Diameter
 9 ft. weir
 ID 15.1 C&G

68 x 23 x 3
 2.0 inch Skimmer
 with 2.0 inch
 Orifice Diameter
 8 ft. weir
 ID 15.2 C&G

64 x 22 x 3
 2.0 inch Skimmer
 with 1.875 inch
 Orifice Diameter
 7 ft. weir
 ID 15.3 C&G

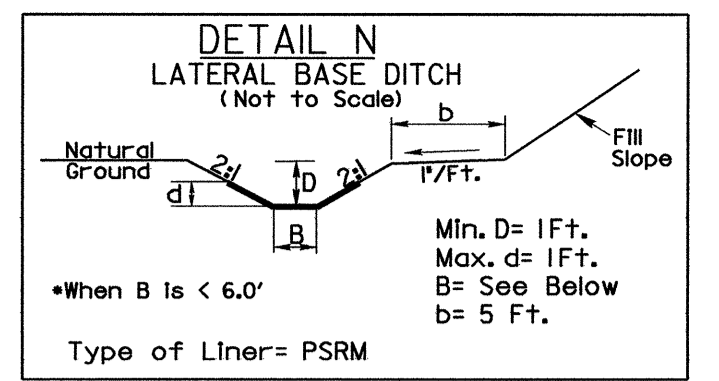
NC GRID
NAD 83



TEMPORARY PAVEMENT

8/17/99
 12-FEB-2008 13:41
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 41

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-37A/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



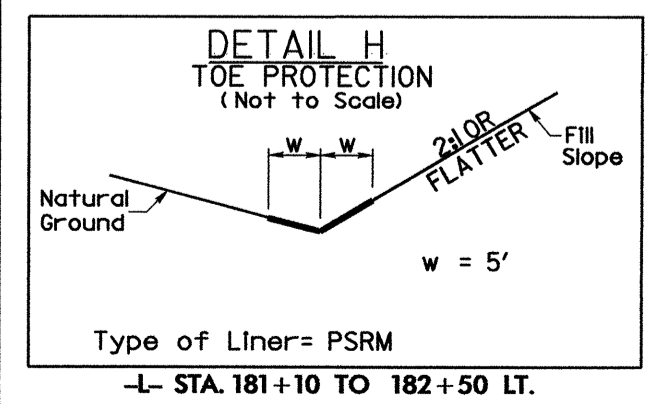
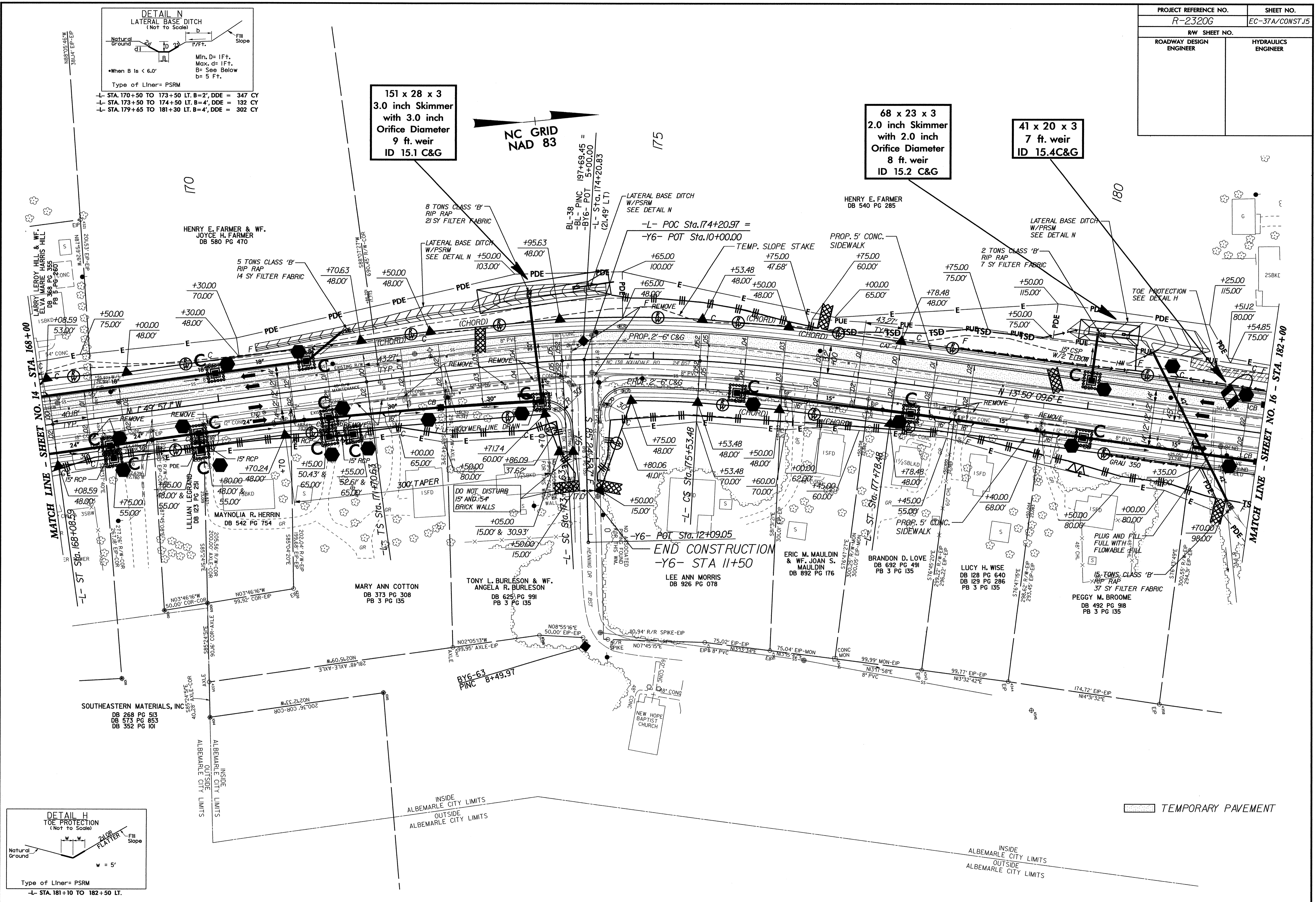
-L- STA. 170+50 TO 173+50 LT. B=2', DDE = 347 CY
 -L- STA. 173+50 TO 174+50 LT. B=4', DDE = 132 CY
 -L- STA. 179+65 TO 181+30 LT. B=4', DDE = 302 CY

151 x 28 x 3
3.0 inch Skimmer
with 3.0 inch
Orifice Diameter
9 ft. weir
ID 15.1 C&G

68 x 23 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
8 ft. weir
ID 15.2 C&G

41 x 20 x 3
7 ft. weir
ID 15.4C&G

NC GRID
NAD 83

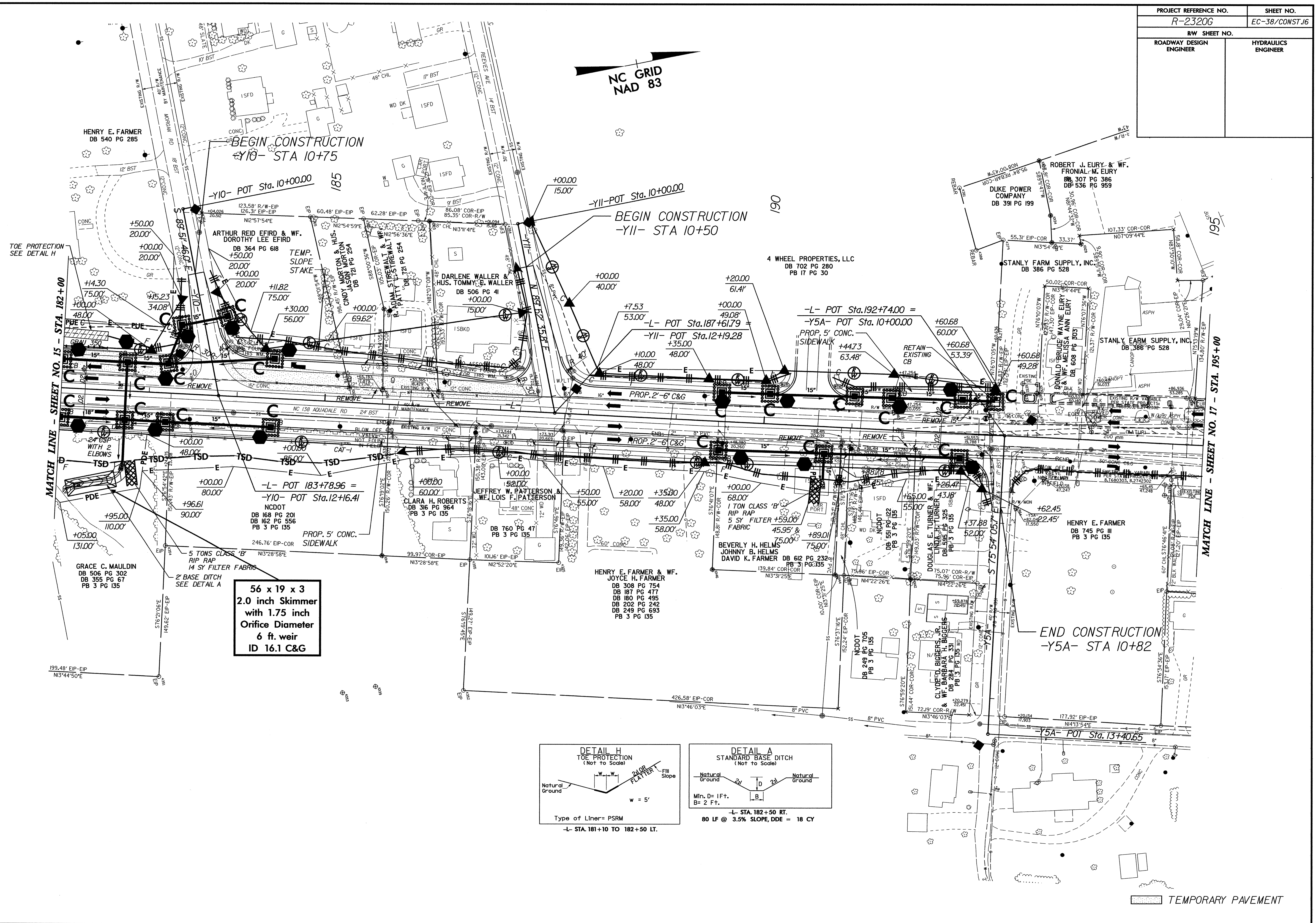


Type of Liner= PSRM
 -L- STA. 181+10 TO 182+50 LT.

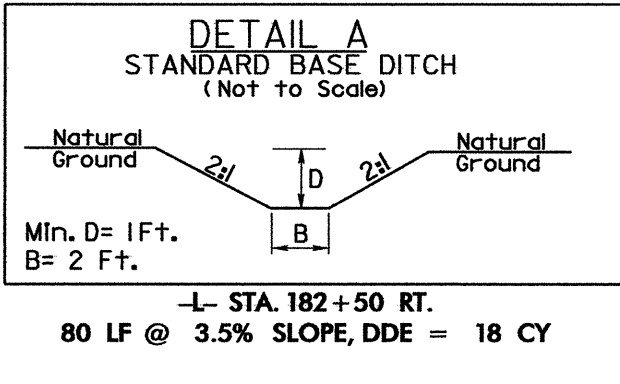
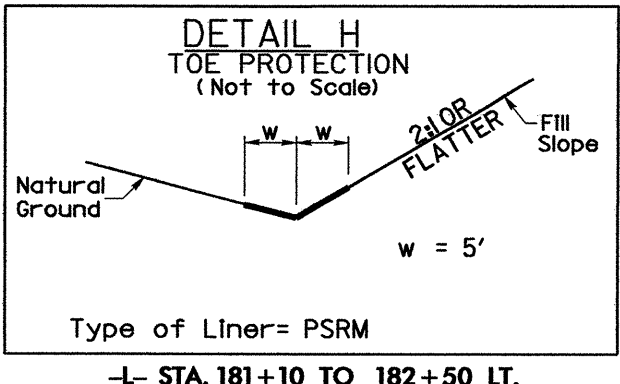
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PROJECT REFERENCE NO.		SHEET NO.	
R-23206		EC-38/CONST.16	
R/W SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

8/17/99
 12-FEB-2008 15:22
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 ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED



56 x 19 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
6 ft. weir
ID 16.1 C&G

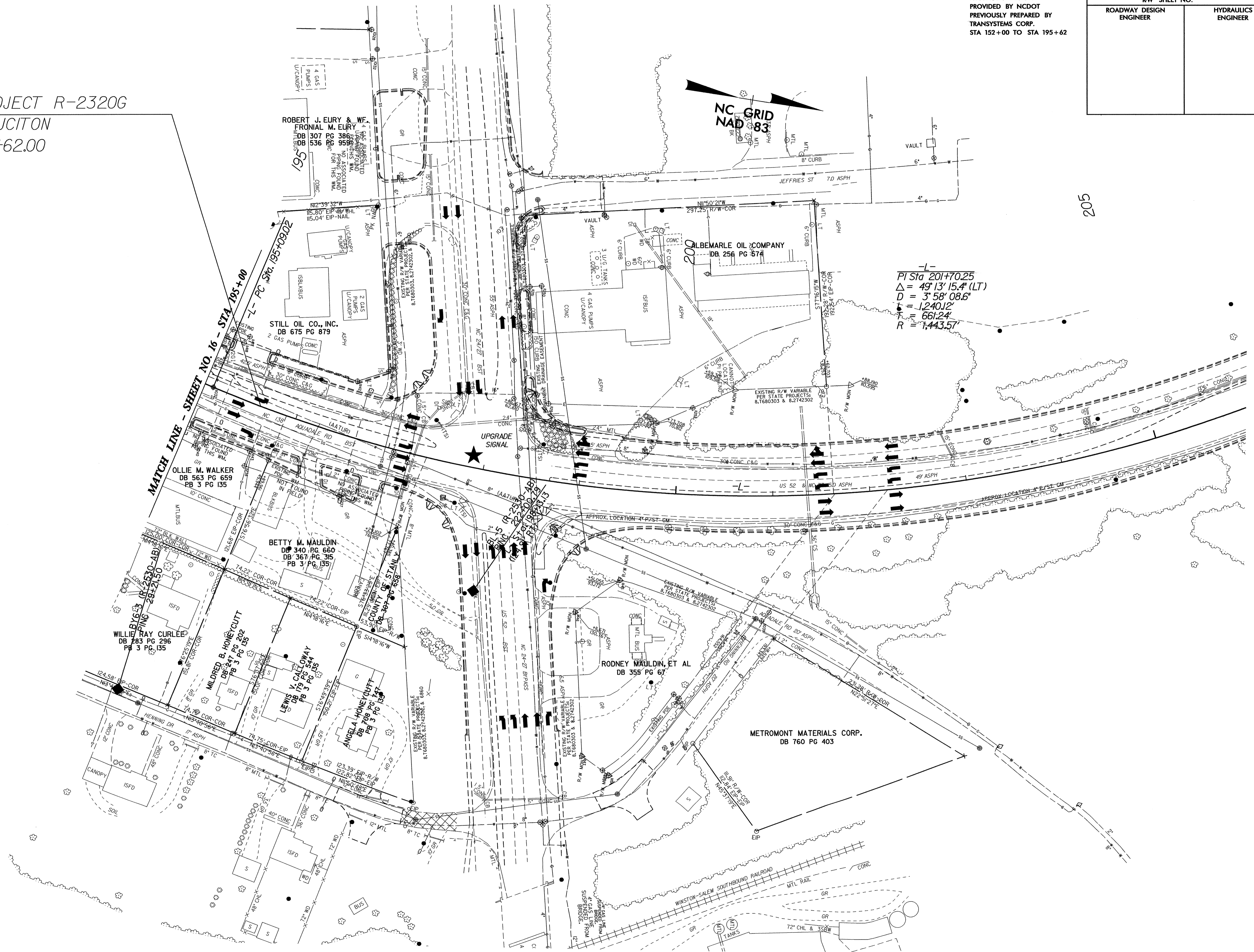


TEMPORARY PAVEMENT

PROJECT REFERENCE NO.		SHEET NO.	
R-2320G		EC-39/CONST J7	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

HYDRAULIC DESIGN:
 PROVIDED BY NCDOT
 PREVIOUSLY PREPARED BY
 TRANSYSTEMS CORP.
 STA 152+00 TO STA 195+62

END TIP PROJECT R-2320G
 END CONSTRUCTION
 -L- STA. 195+62.00

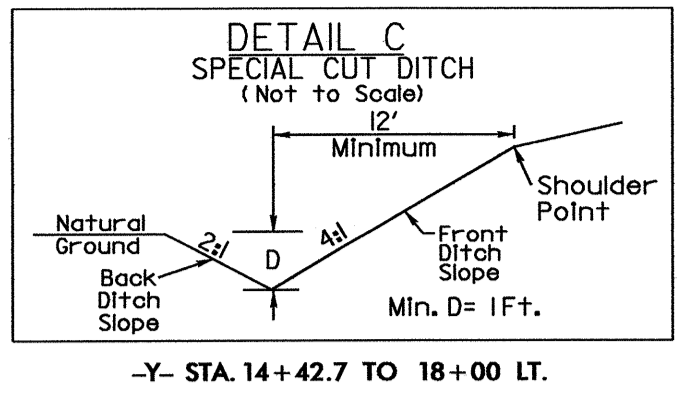
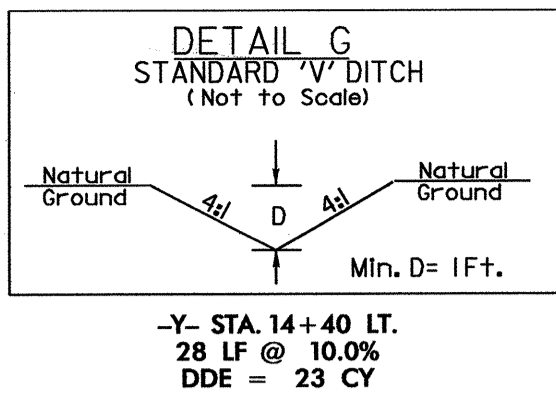


-L-
 PI Sta 201+70.25
 $\Delta = 49' 13'' 15.4''$ (LT)
 $D = 3' 58'' 08.6''$
 $t = 1240.12'$
 $F = 661.24'$
 $R = 1443.57'$

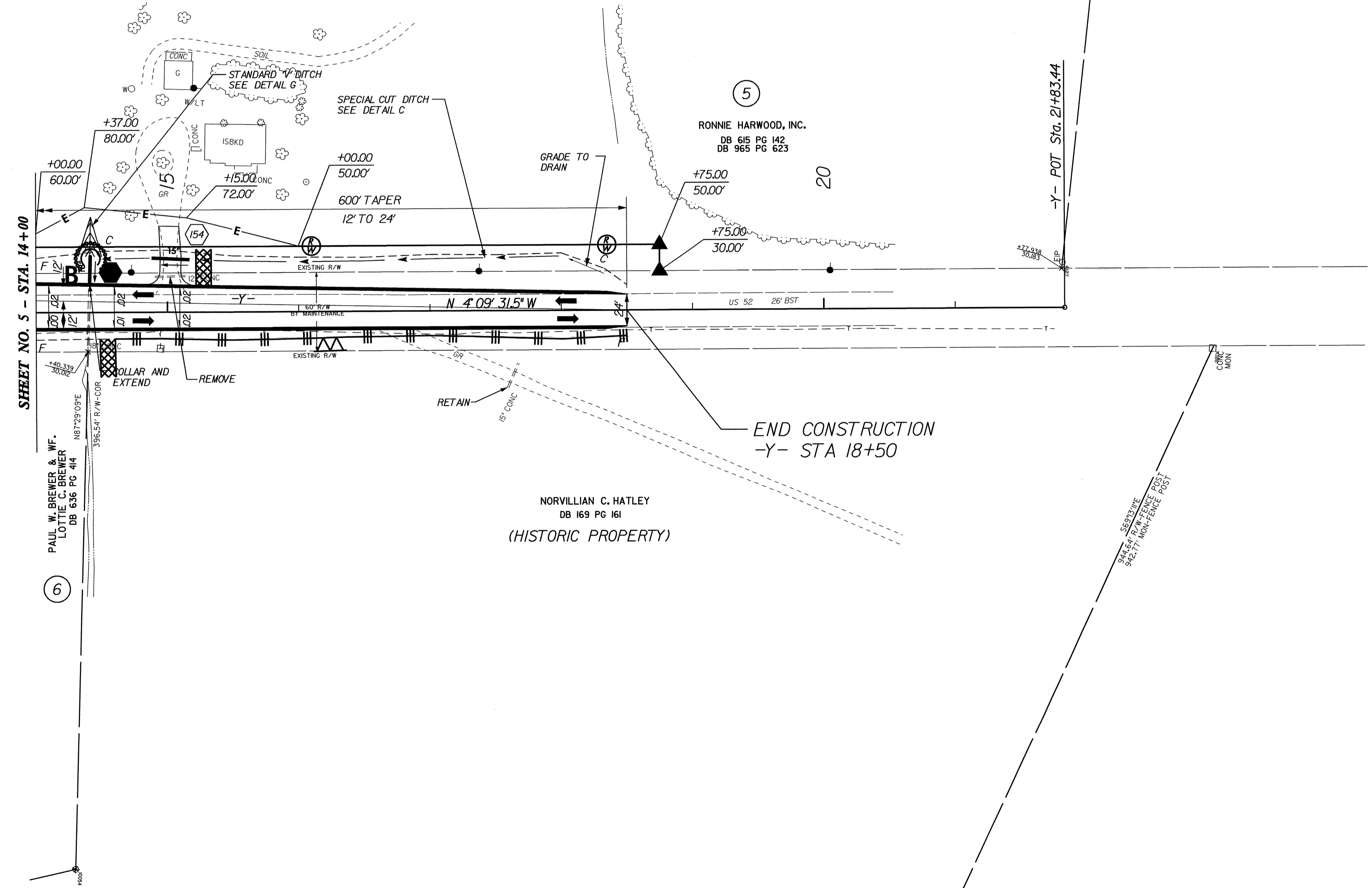
8/17/99

11-FEB-2008 16:16
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PROJECT REFERENCE NO. <i>R-2320G</i>	SHEET NO. <i>EC-40/CONST.18</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NC GRID
NAD 83



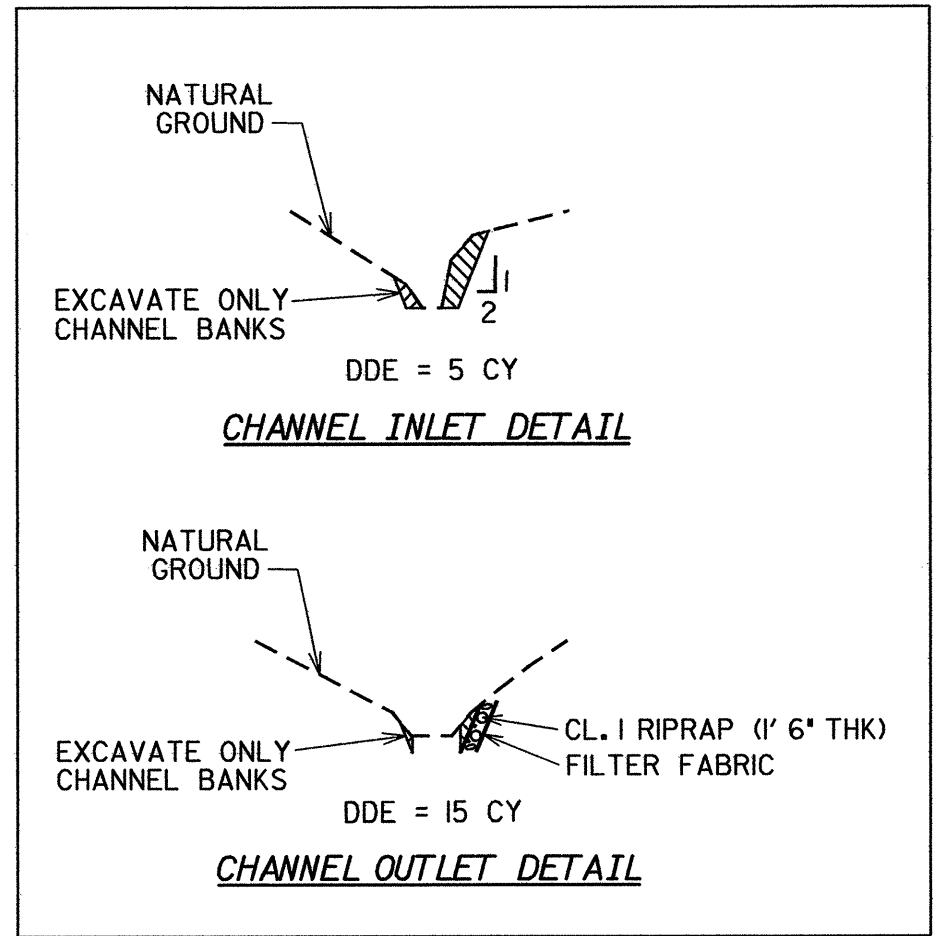
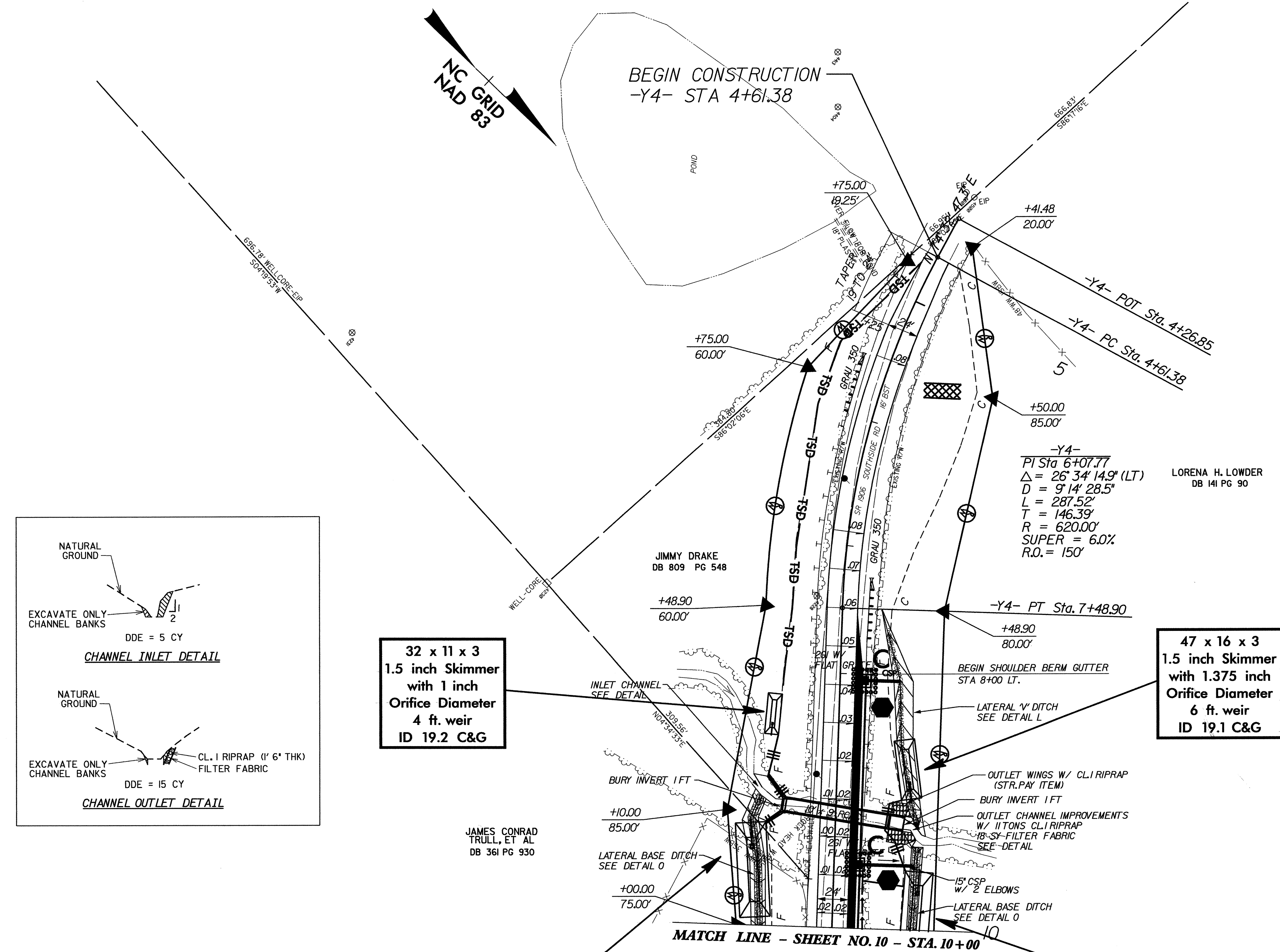
R2320G-1
PINC 25+38.84

8/17/99

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18.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-23206	EC-41/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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micah-ter AT RENV221493

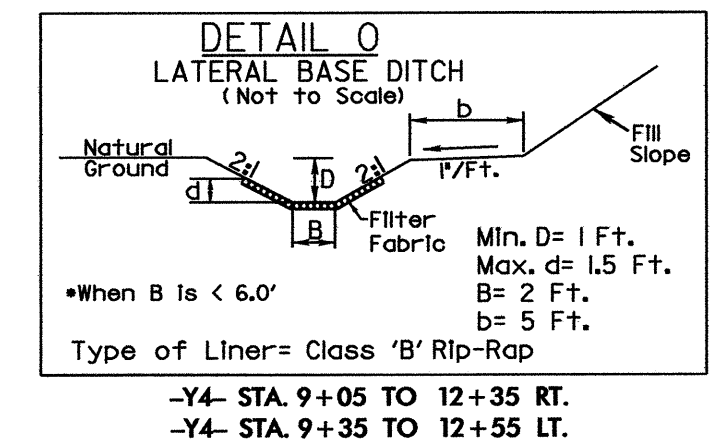
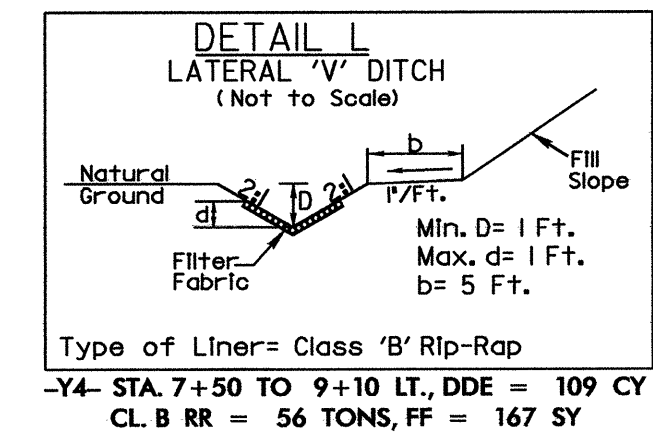


32 x 11 x 3
1.5 inch Skimmer
with 1 inch
Orifice Diameter
4 ft. weir
ID 19.2 C&G

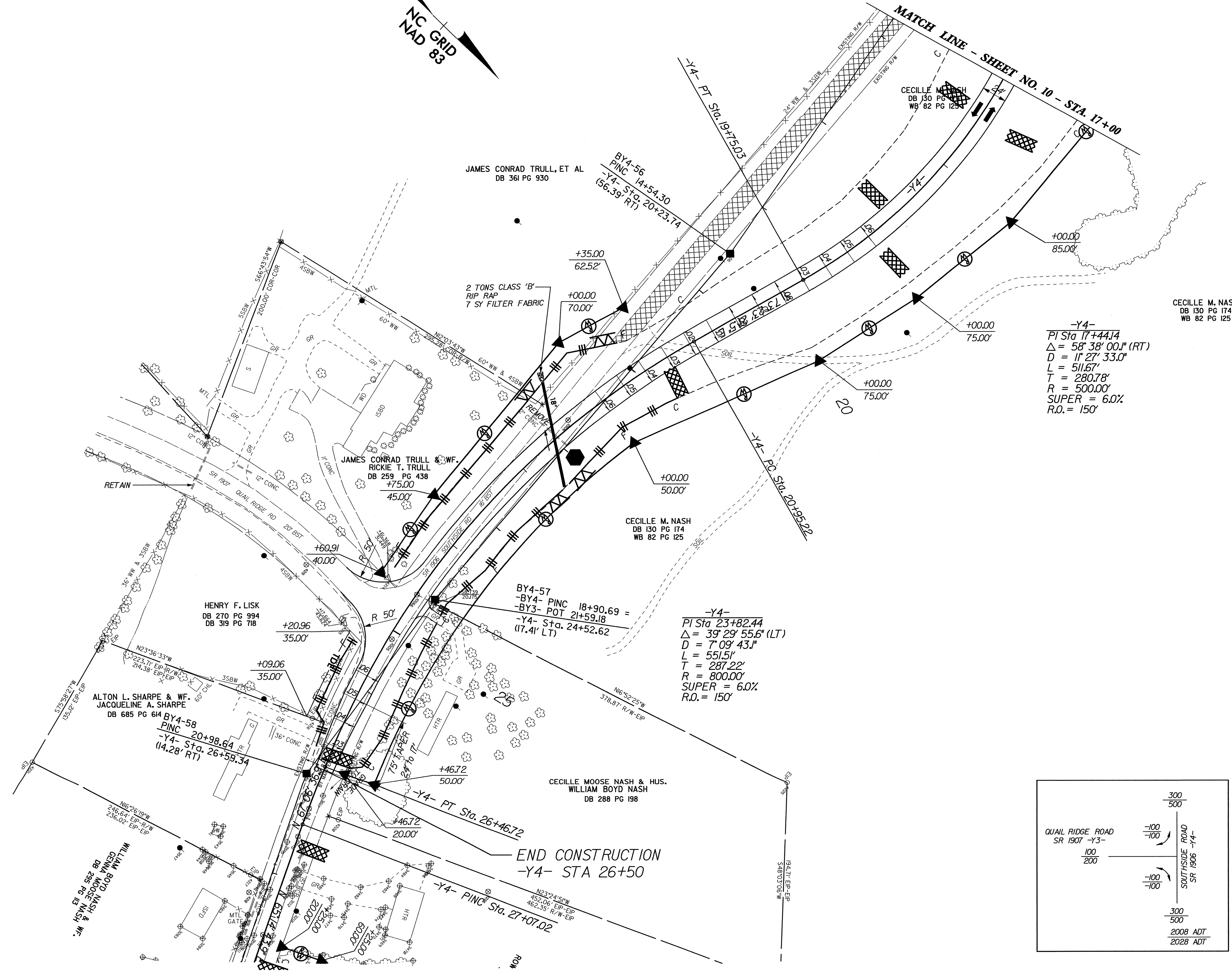
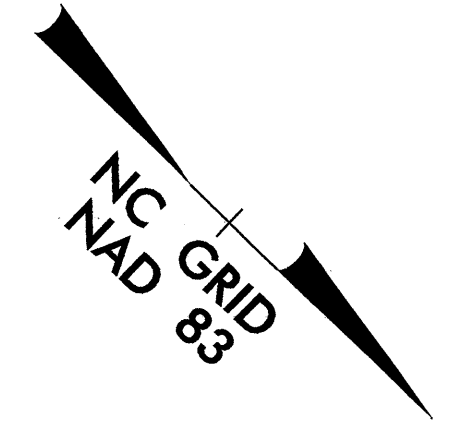
47 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
ID 19.1 C&G

74 x 24 x 3
2.5 inch Skimmer
with 2.725 inch
Orifice Diameter
8 ft. weir
ID 10.1 C&G

66 x 22 x 3
2.0 inch Skimmer
with 1.875 inch
Orifice Diameter
8 ft. weir
ID 10.4 C&G

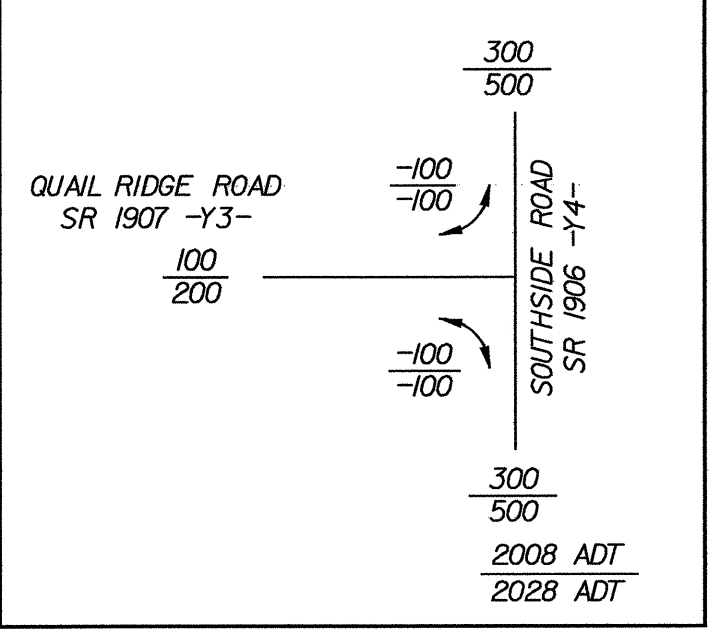


PROJECT REFERENCE NO. R-2320G		SHEET NO. EC-42/CONST.20	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



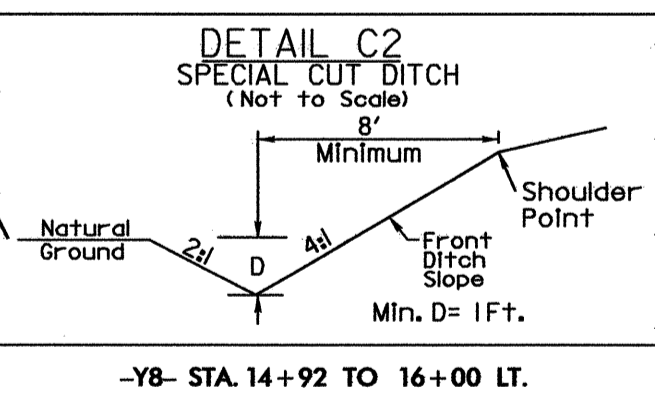
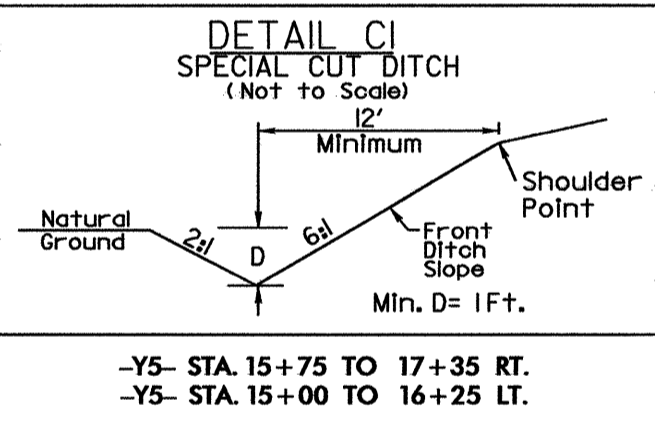
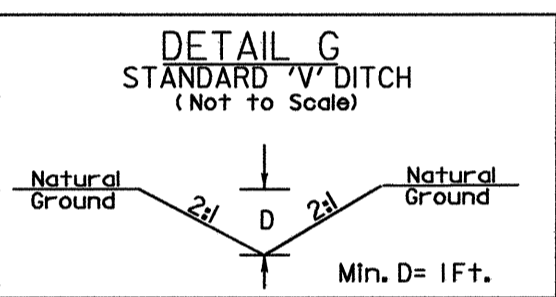
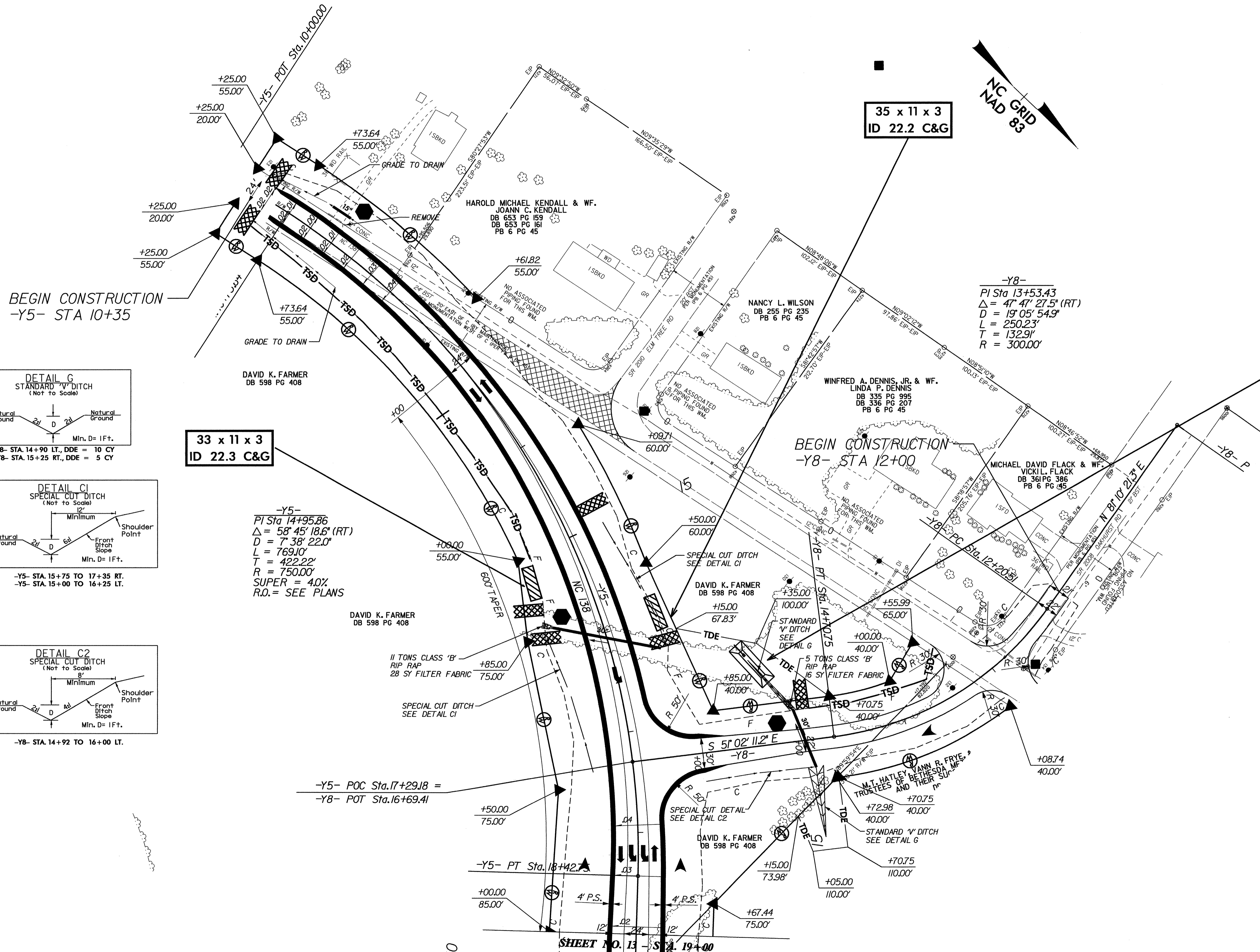
-Y4-
 PI Sta 17+44.14
 $\Delta = 58^{\circ} 38' 00.1''$ (RT)
 D = 11' 27' 33.0"
 L = 511.67'
 T = 280.78'
 R = 500.00'
 SUPER = 6.0%
 R.O. = 150'

-Y4-
 PI Sta 23+82.44
 $\Delta = 39^{\circ} 29' 55.6''$ (LT)
 D = 7' 09' 43.1"
 L = 551.51'
 T = 287.22'
 R = 800.00'
 SUPER = 6.0%
 R.O. = 150'



8/17/09
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 created: 08/17/09 11:43 AM
 modified: 08/17/09 11:43 AM
 user: jh

PROJECT REFERENCE NO. R-2320G	SHEET NO. EC-43/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



33 x 11 x 3
ID 22.3 C&G

35 x 11 x 3
ID 22.2 C&G

48 x 16 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
8 ft. weir
ID 22.1 C&G

-Y5-
PI Sta 14+95.86
 $\Delta = 58' 45'' 18.6''$ (RT)
D = 7' 38'' 22.0''
L = 769.10'
T = 422.22'
R = 750.00'
SUPER = 4.0%
R.O. = SEE PLANS

-Y8-
PI Sta 13+53.43
 $\Delta = 47' 47'' 27.5''$ (RT)
D = 19' 05'' 54.9''
L = 250.23'
T = 132.91'
R = 300.00'

8/17/99
12-FEB-2008 13:48
r:\environment\ec-43\2320g.ec.psh.21.primary.dgn
DAVID K. FARMER