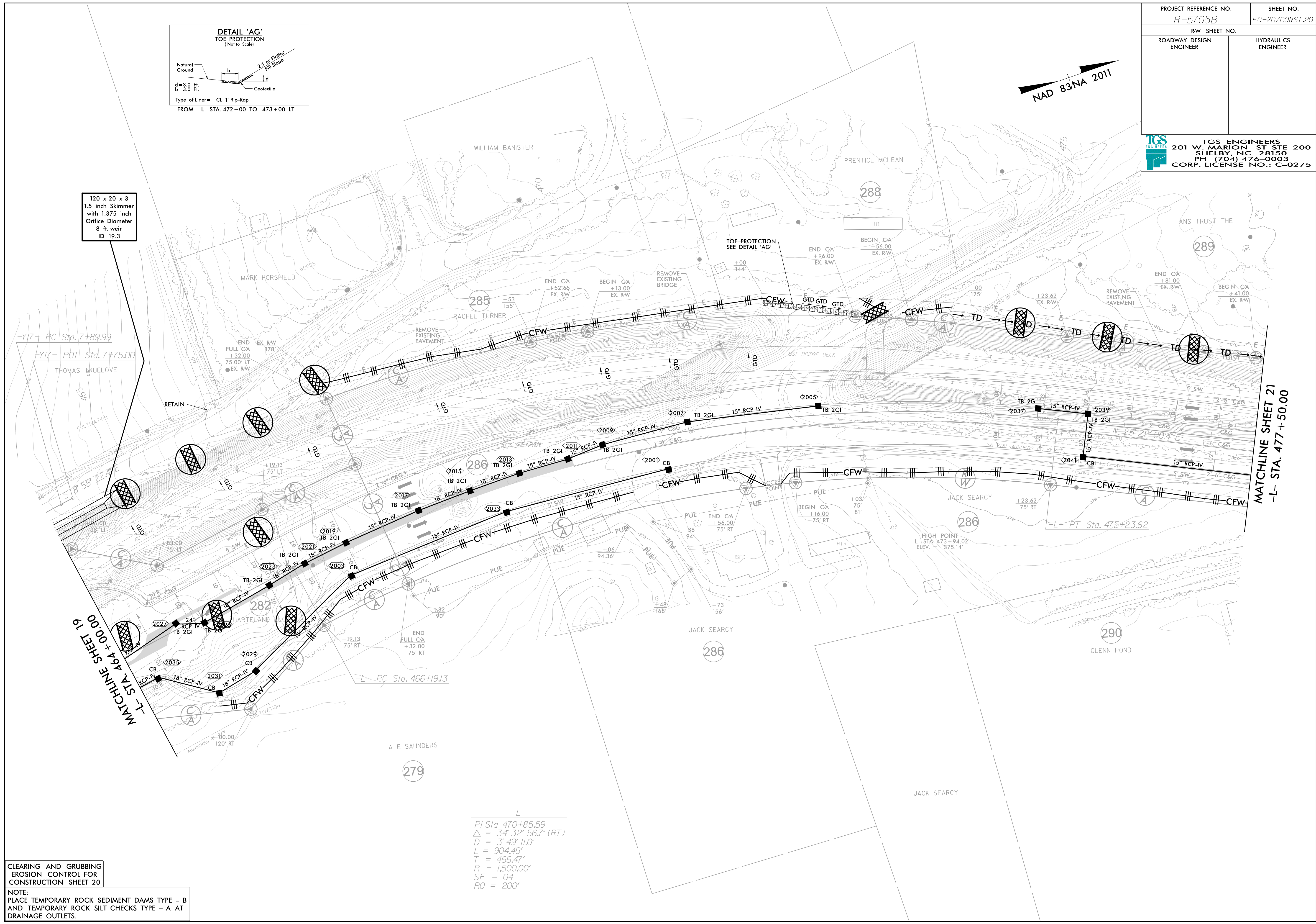
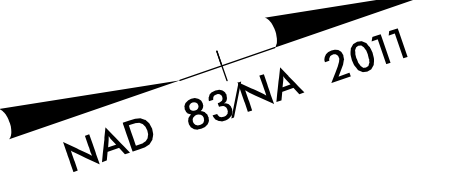
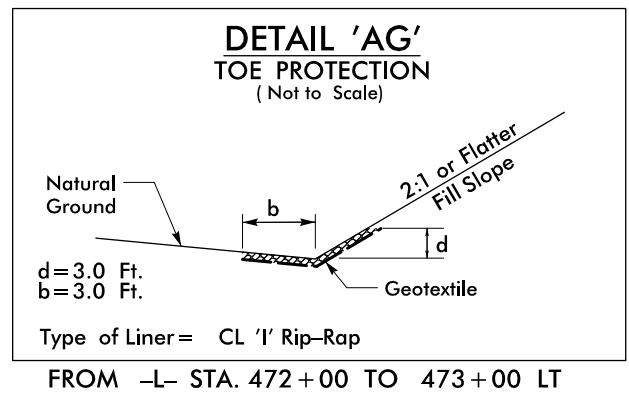


**This electronic collection of documents is provided  
for the convenience of the user  
and is Not a Certified Document –**

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

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





120 x 20 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
8 ft. weir  
ID 19.3

-Y17- PC Sta. 7+89.99  
-Y17- POT Sta. 7+75.00  
THOMAS TRUELOVE

MATCHLINE SHEET 19  
-L- STA. 464+00.00

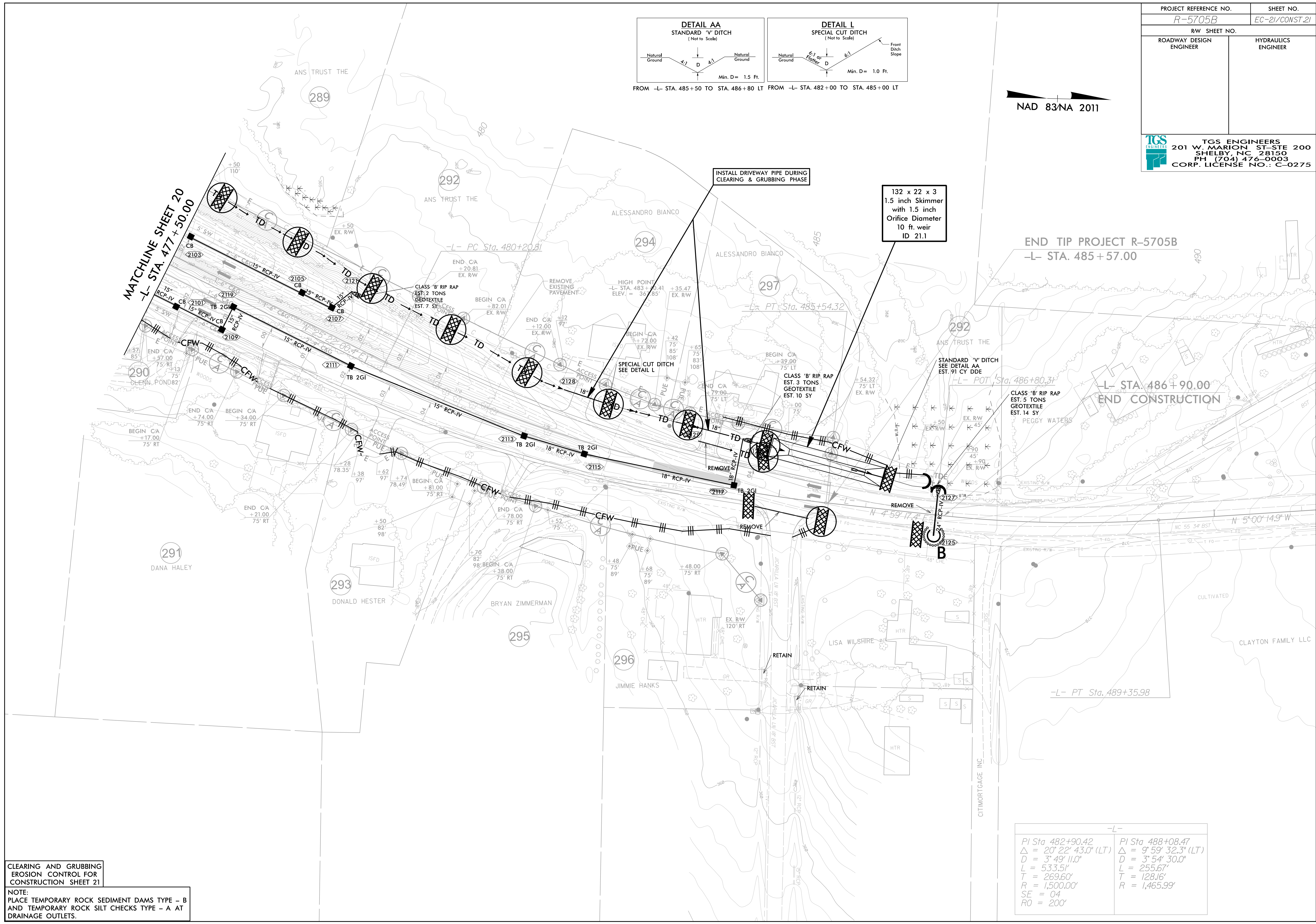
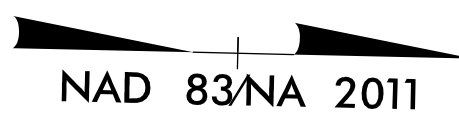
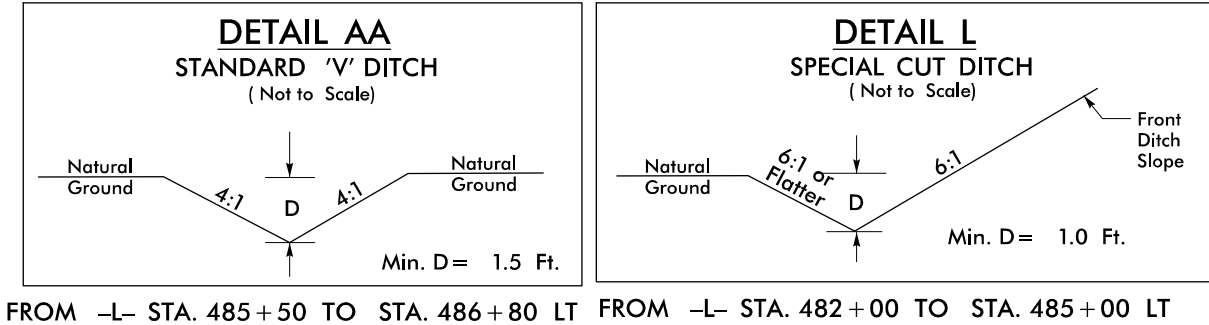
MATCHLINE SHEET 21  
-L- STA. 477+50.00

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.

-L-  
PI Sta 470+85.59  
 $\Delta = 34' 32'' 56.7''$  (RT)  
 $D = 3' 49'' 11.0''$   
 $L = 904.49'$   
 $T = 466.47'$   
 $R = 1,500.00'$   
 $SE = 04$   
 $RO = 200'$





MATCHLINE SHEET 20  
-L- STA. 477 + 50.00

END TIP PROJECT R-5705B  
-L- STA. 485 + 57.00

-L- STA. 486 + 90.00  
END CONSTRUCTION

132 x 22 x 3  
1.5 inch Skimmer  
with 1.5 inch  
Orifice Diameter  
10 ft. weir  
ID 21.1

INSTALL DRIVEWAY PIPE DURING  
CLEARING & GRUBBING PHASE

SPECIAL CUT DITCH  
SEE DETAIL L

STANDARD 'V' DITCH  
SEE DETAIL AA  
EST. 91 CY DDE

CLASS 'B' RIP RAP  
EST. 5 TONS  
GEOTEXTILE  
EST. 14 SY

CLASS 'B' RIP RAP  
EST. 2 TONS  
GEOTEXTILE  
EST. 7 SY

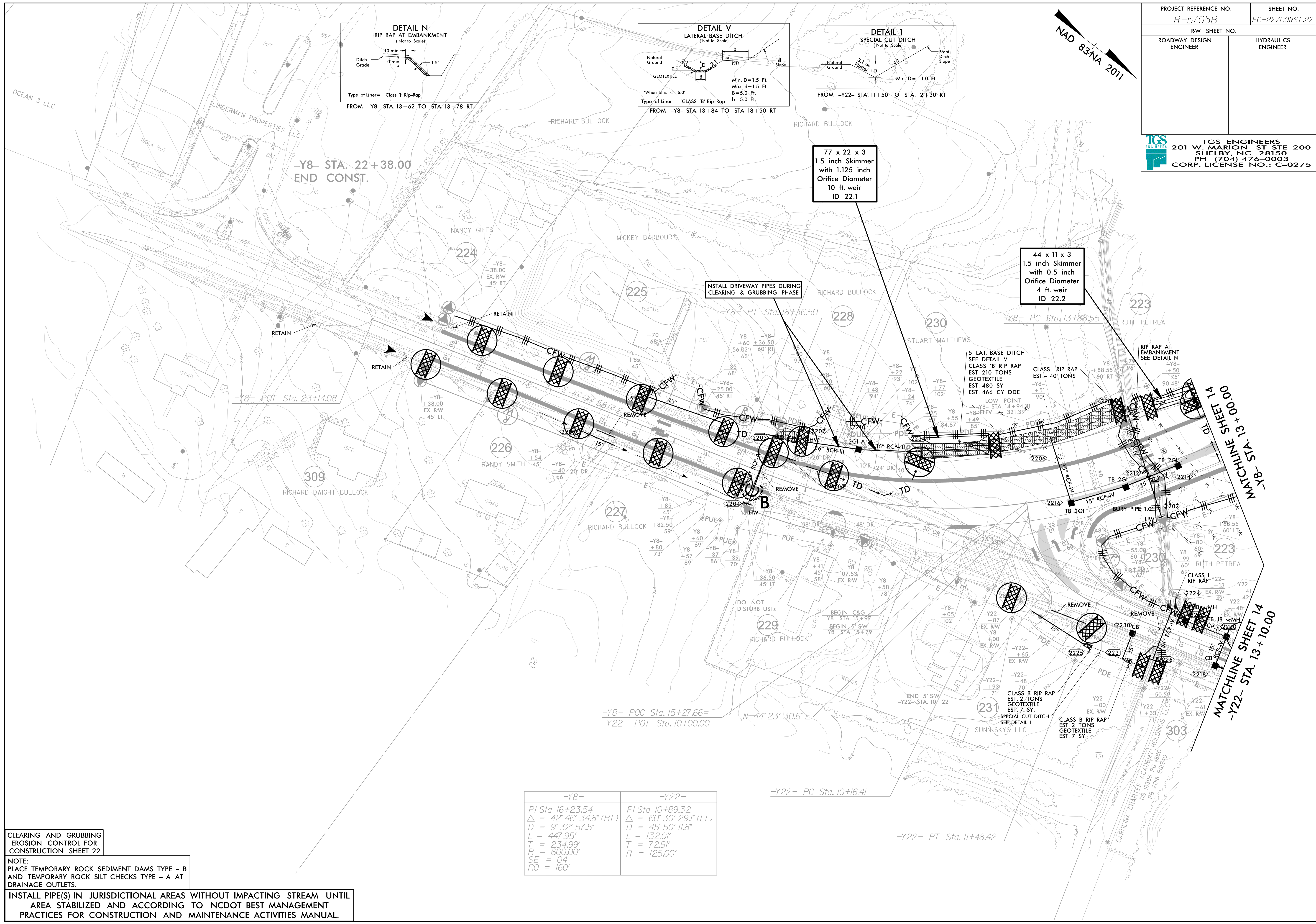
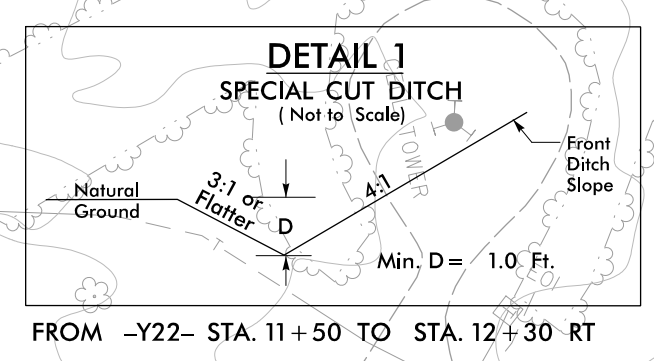
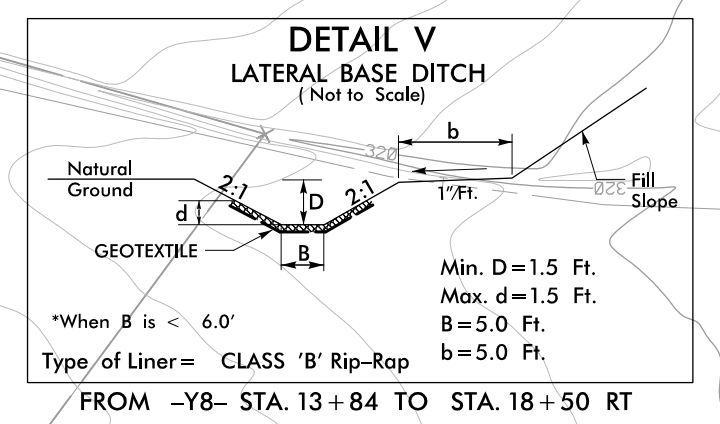
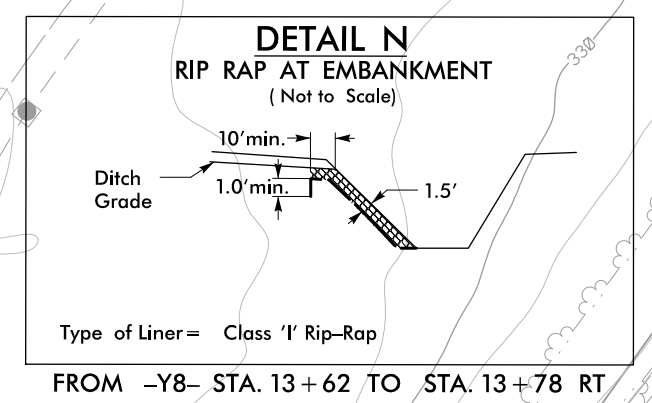
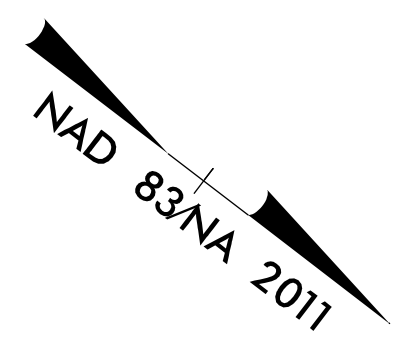
CLASS 'B' RIP RAP  
EST. 3 TONS  
GEOTEXTILE  
EST. 10 SY

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 21

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

-L-	
PI Sta 482+90.42	PI Sta 488+08.47
$\Delta = 20' 22' 43.0''$ (LT)	$\Delta = 9' 59' 32.3''$ (LT)
D = 3' 49' 11.0"	D = 3' 54' 30.0"
L = 533.51'	L = 255.67'
T = 269.60'	T = 128.16'
R = 1,500.00'	R = 1,465.99'
SE = 04	
RO = 200'	





-Y8-	-Y22-
PI Sta 16+23.54	PI Sta 10+89.32
$\Delta = 42' 46" 34.8"$ (RT)	$\Delta = 60' 30" 29.1"$ (LT)
D = 9' 32" 57.5"	D = 45' 50" 11.8"
L = 447.95'	L = 132.01'
T = 234.99'	T = 72.91'
R = 600.00'	R = 125.00'
SE = 04	
RO = 160	

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 22

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

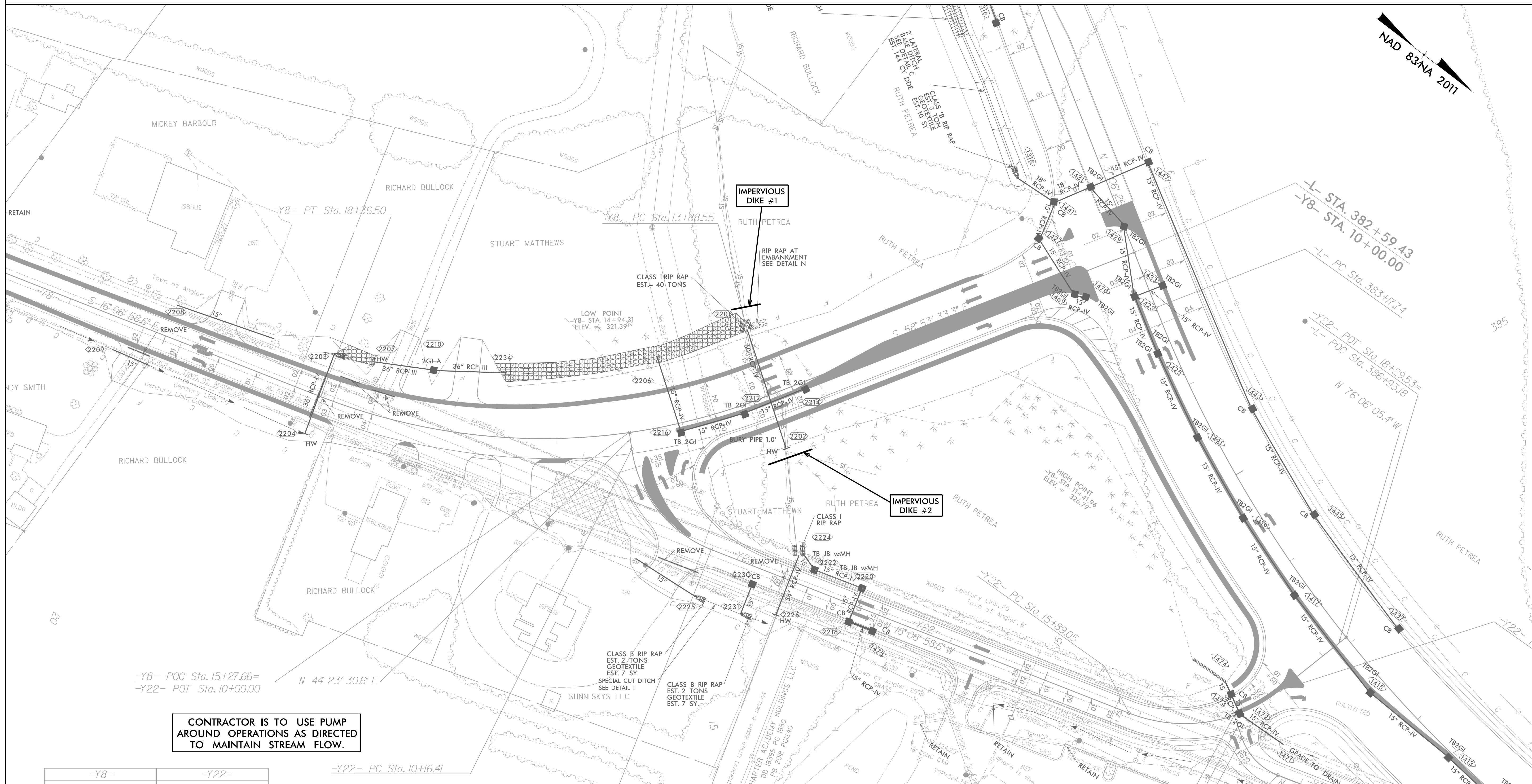
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL  
AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT  
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.



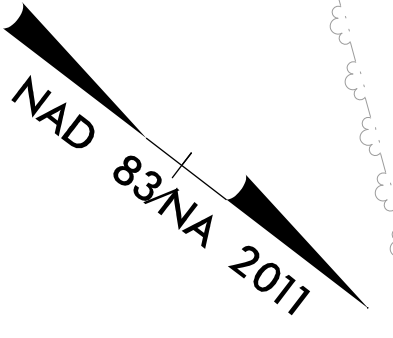
PROJECT REFERENCE NO.	SHEET NO.
R-5705B	EC-22A/CONST.22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# PIPE CONSTRUCTION SEQUENCE STA. 13+86 -Y8-

1. INSTALL IMPERVIOUS DIKES #1 & #2.
2. BEGIN PUMPING AROUND OPERATION.
3. DEWATER WORK SITE AS NEEDED INTO SPECIAL STILLING BASIN(S).
5. CONSTRUCT 60" RCP-IV.
6. STOP PUMP AROUND OPERATION.
7. REMOVE IMPERVIOUS DIKES #1 & #2 AND REESTABLISH STREAM.



CONTRACTOR IS TO USE PUMP AROUND OPERATIONS AS DIRECTED TO MAINTAIN STREAM FLOW.






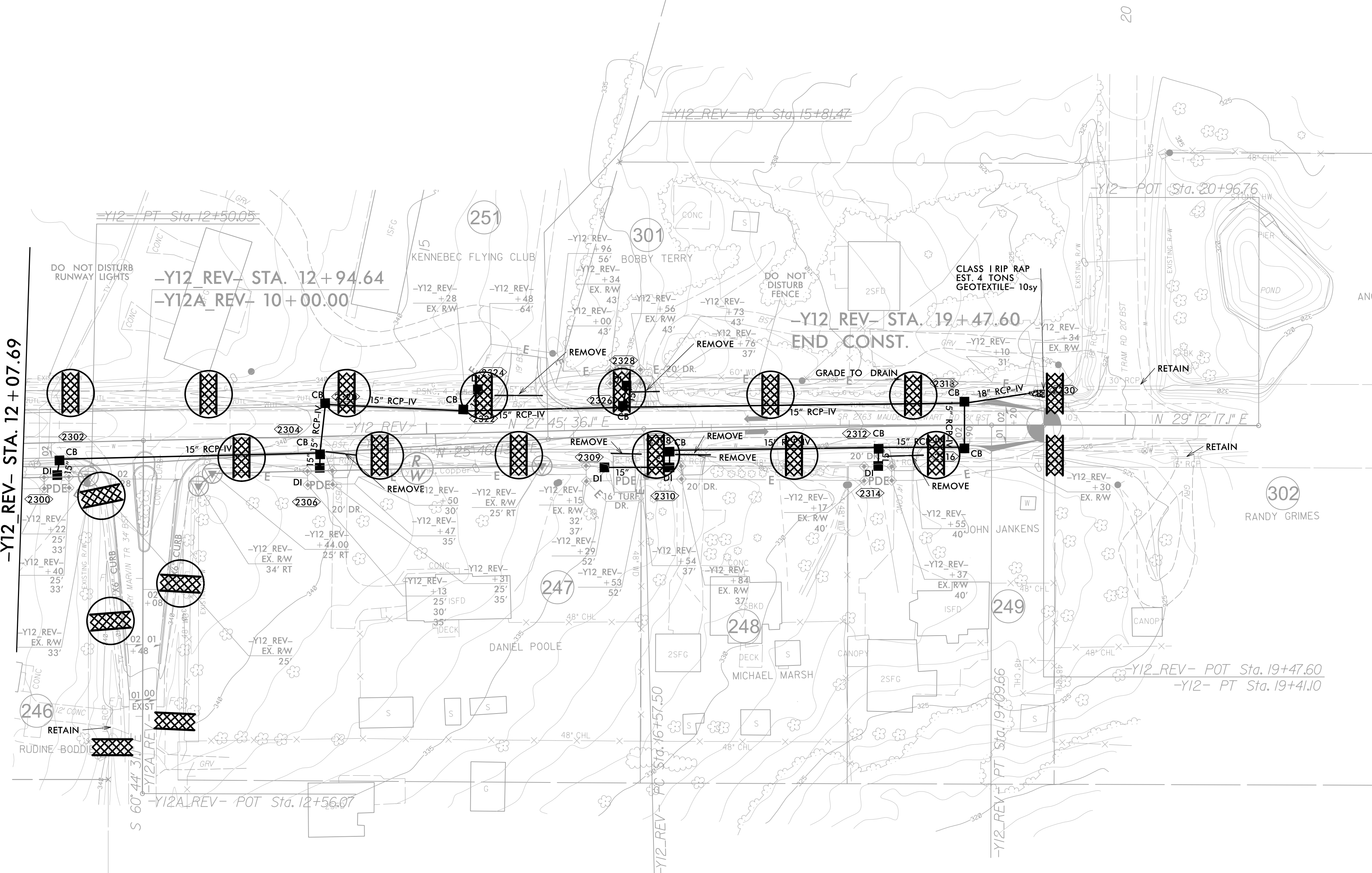
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 23

NAD 83/NA 2011

PROJECT REFERENCE NO. <i>R-5705B</i>	SHEET NO. <i>EC-23/CONST.23</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 <b>TGS ENGINEERS</b> 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	


MATCHLINE SHEET 16  
-Y12 REV- STA. 12+07.69

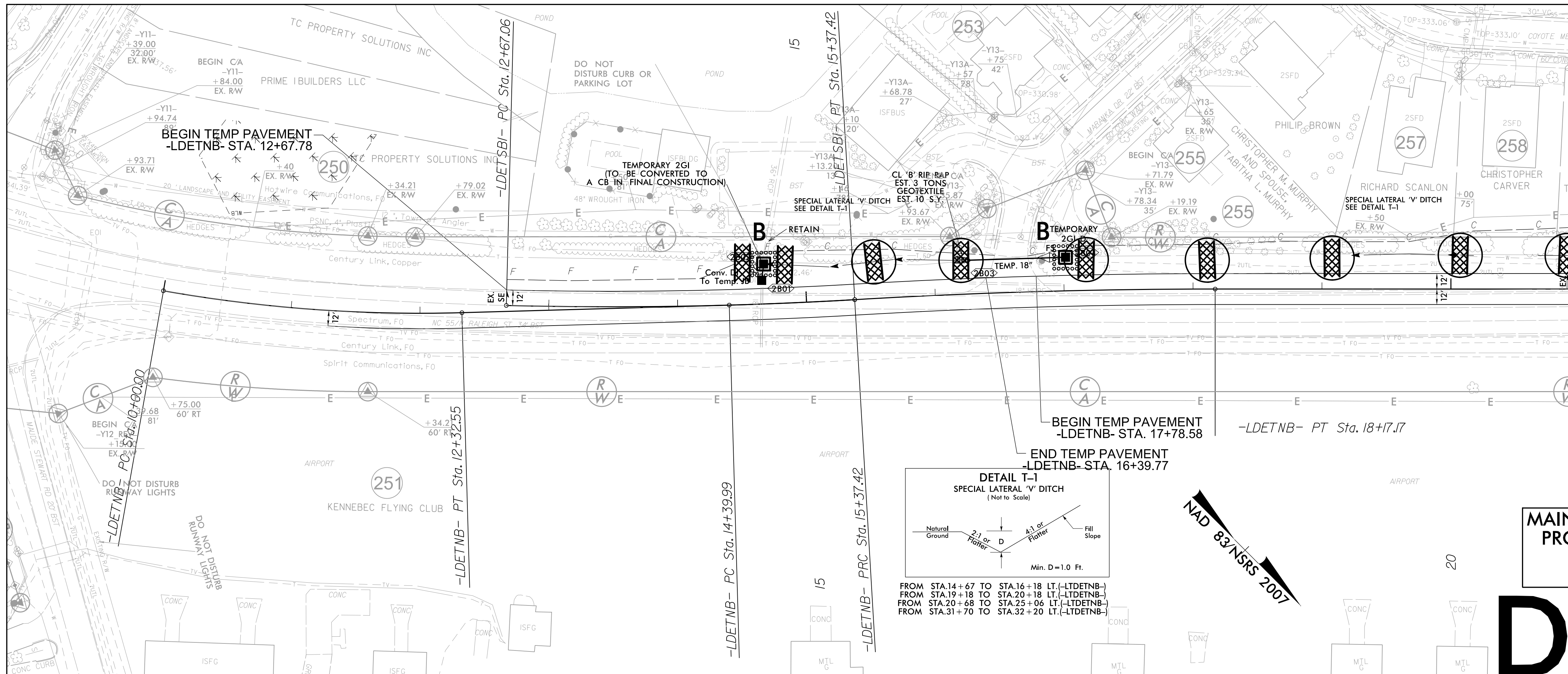


-Y12-	
<del>PI Sta 11+80.56</del>	<del>PI Sta 17+61.34</del>
<del><math>\Delta = 14' 33'' 28.7''</math> (LT)</del>	<del><math>\Delta = 3' 26'' 03.2''</math> (RT)</del>
<del><math>D = 10' 25'' 02.7''</math></del>	<del><math>D = 0' 57'' 17.7''</math></del>
<del><math>L = 139.75'</math></del>	<del><math>L = 359.63'</math></del>
<del><math>T = 70.25'</math></del>	<del><math>T = 179.87'</math></del>
<del><math>R = 550.00'</math></del>	<del><math>R = 6,000.00'</math></del>

-Y12_REV-
PI Sta 17+83.59
$\Delta = 1' 26'' 41.0''$ (RT)
$D = 0' 34'' 22.6''$
$L = 252.15'$
$T = 126.08'$
$R = 10,000.00'$



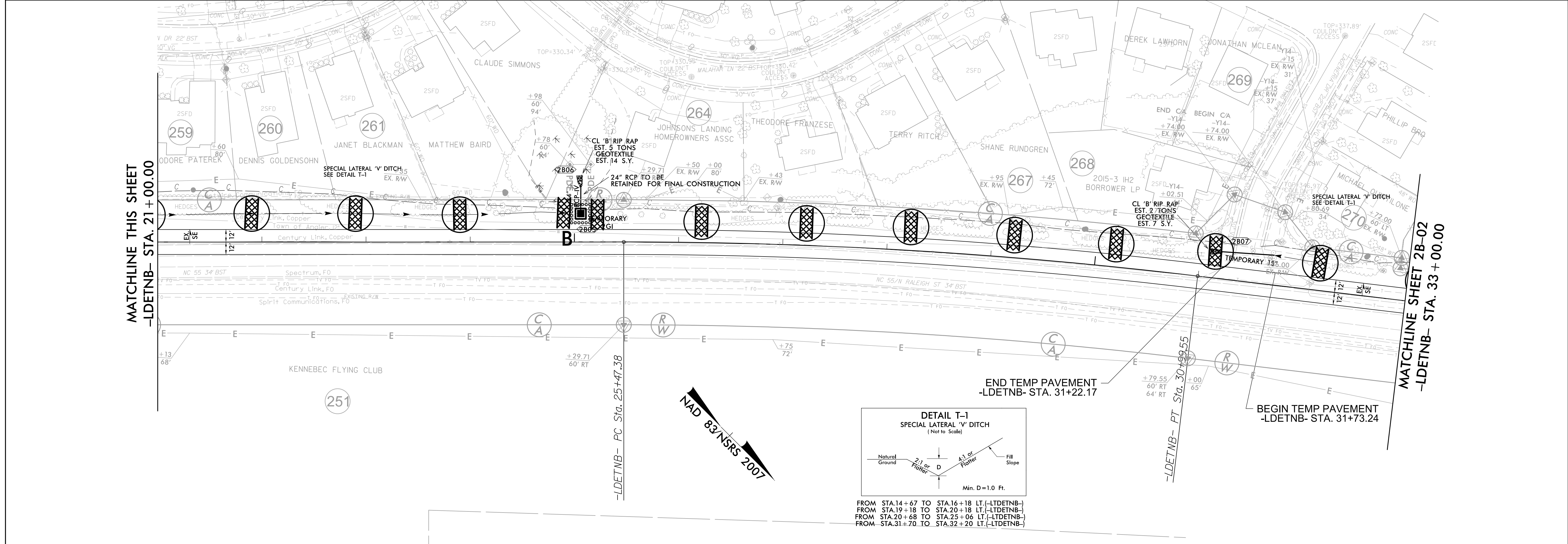
PROJECT REFERENCE NO.	SHEET NO.
R-5705B	EC-24/CONST.2B-01
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 <b>TGS ENGINEERS</b> 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



MATCHLINE THIS SHEET  
-LDETNB- STA. 21 + 00.00

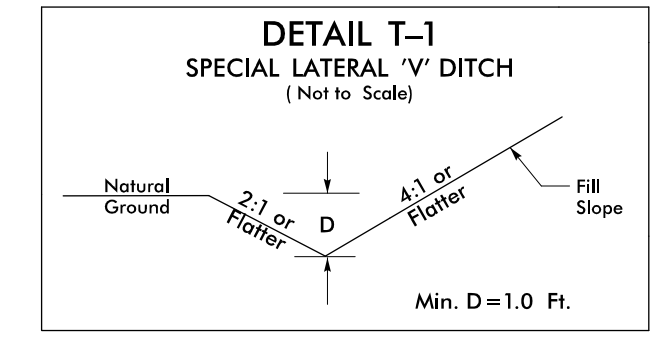
**MAINTAIN EROSION CONTROL PERIMETER PROTECTION FROM EC-16/CONST.16 & EC-17/CONST.17 AS APPROPRIATE FOR FINAL DETOUR PHASE.**

# DETOUR



MATCHLINE THIS SHEET  
-LDETNB- STA. 21 + 00.00

MATCHLINE SHEET 2B-02  
-LDETNB- STA. 33 + 00.00

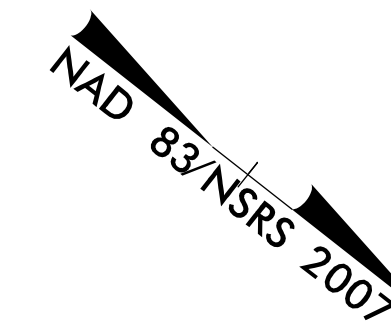



FROM STA.14+67 TO STA.16+18 LT.(-LDETNB-)  
 FROM STA.19+18 TO STA.20+18 LT.(-LDETNB-)  
 FROM STA.20+68 TO STA.25+06 LT.(-LDETNB-)  
 FROM STA.31+70 TO STA.32+20 LT.(-LDETNB-)

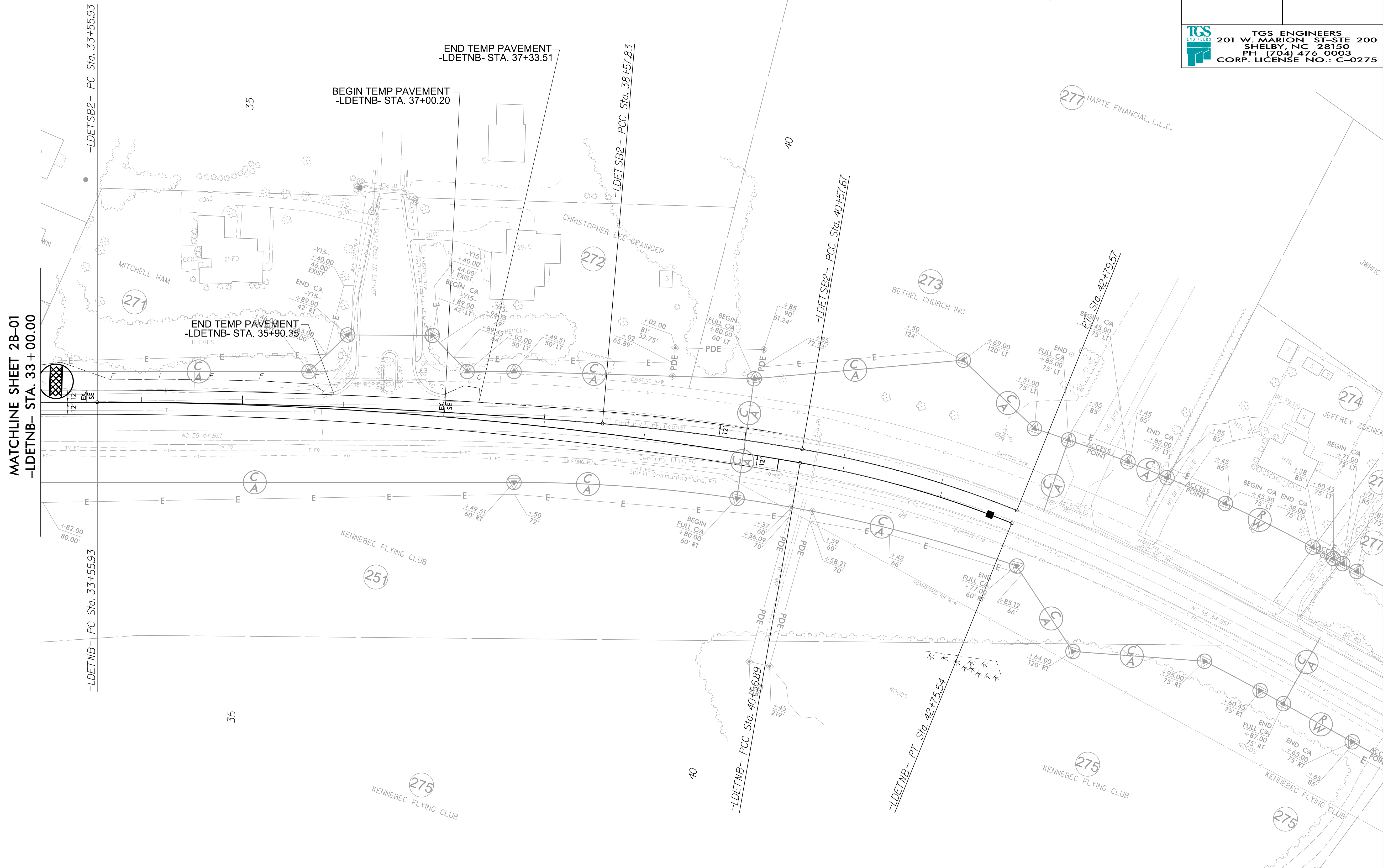


# DETOUR

MAINTAIN EROSION CONTROL PERIMETER PROTECTION FROM EC-18/CONST.18 AS APPROPRIATE FOR FINAL DETOUR PHASE.

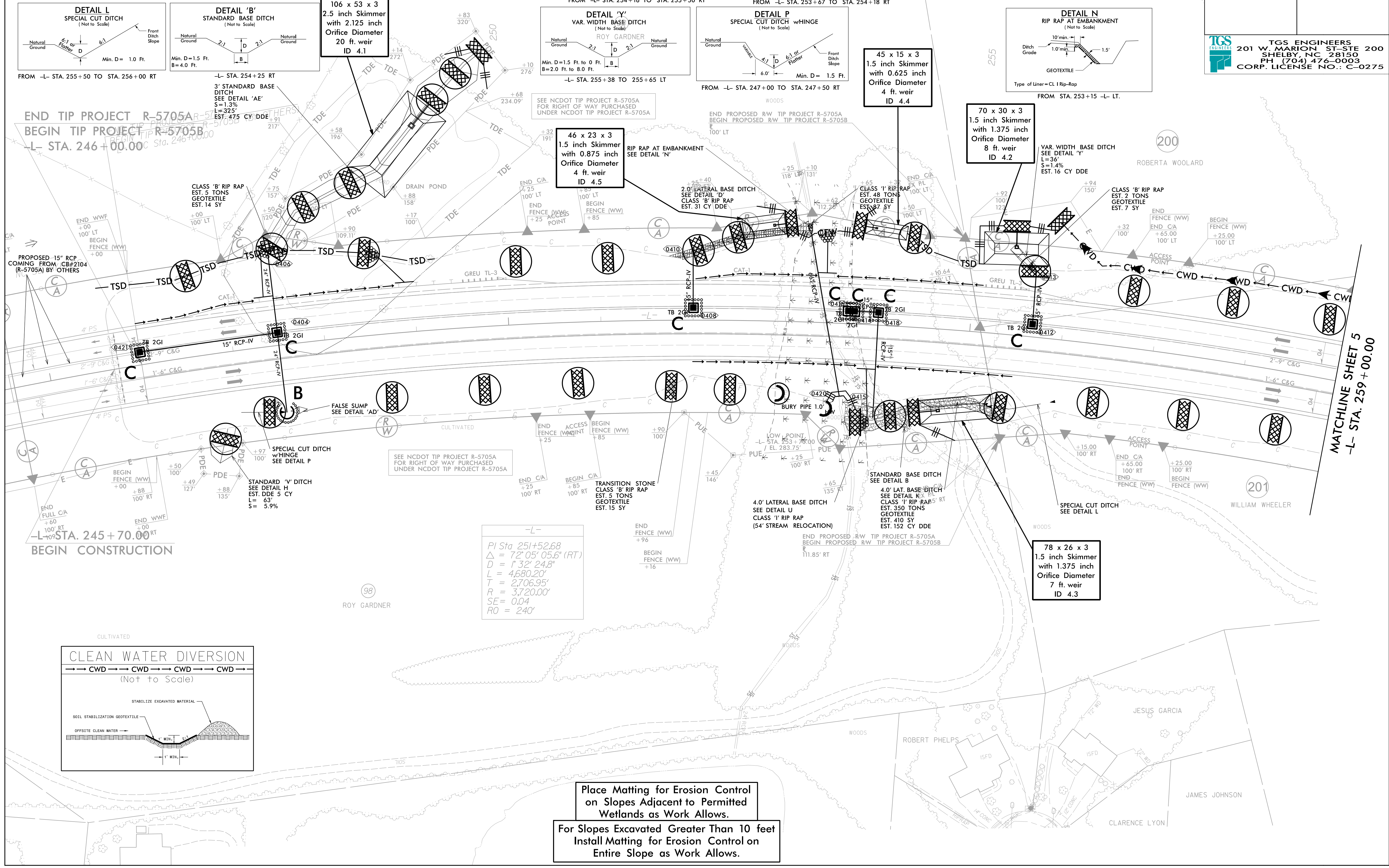
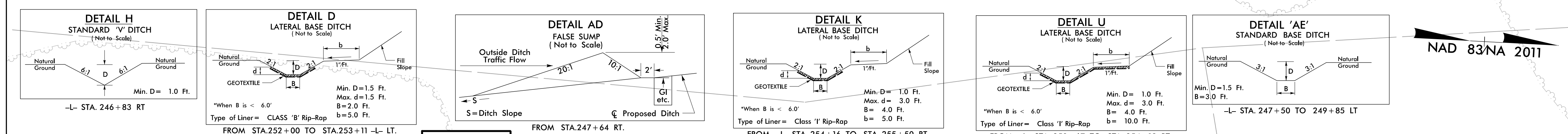


PROJECT REFERENCE NO. R-5705B	SHEET NO. EC-25/CONST.2B-02
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 <b>TGS ENGINEERS</b> 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	





NAD 83/NA 2011

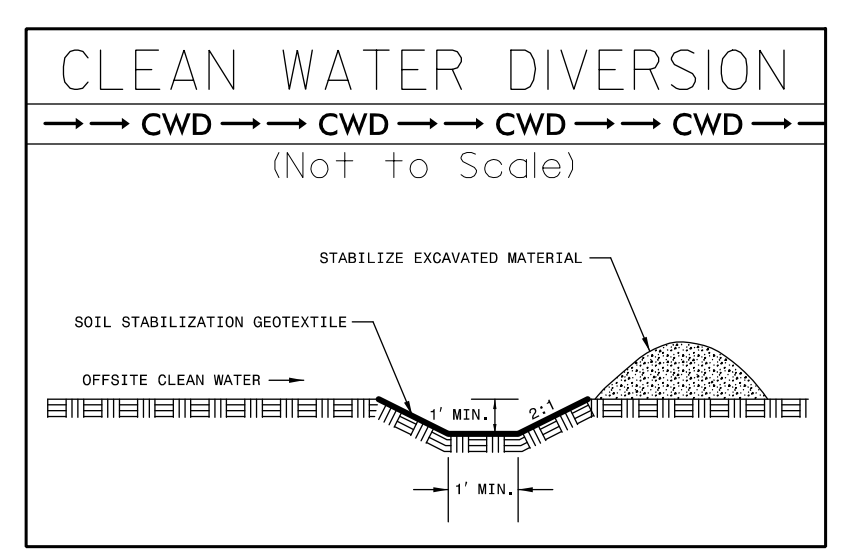


END TIP PROJECT R-5705A  
 BEGIN TIP PROJECT R-5705B  
 -L- STA. 246+00.00

-L- STA. 245+70.00  
 BEGIN CONSTRUCTION

MATCHLINE SHEET 5  
 -L- STA. 259+00.00

-L-  
 PI Sta 251+52.68  
 $\Delta = 72^{\circ} 05' 05.6''$  (RT)  
 $D = 1^{\circ} 32' 24.8''$   
 $L = 4,680.20'$   
 $T = 2,706.95'$   
 $R = 3,720.00'$   
 $SE = 0.04$   
 $RO = 240'$

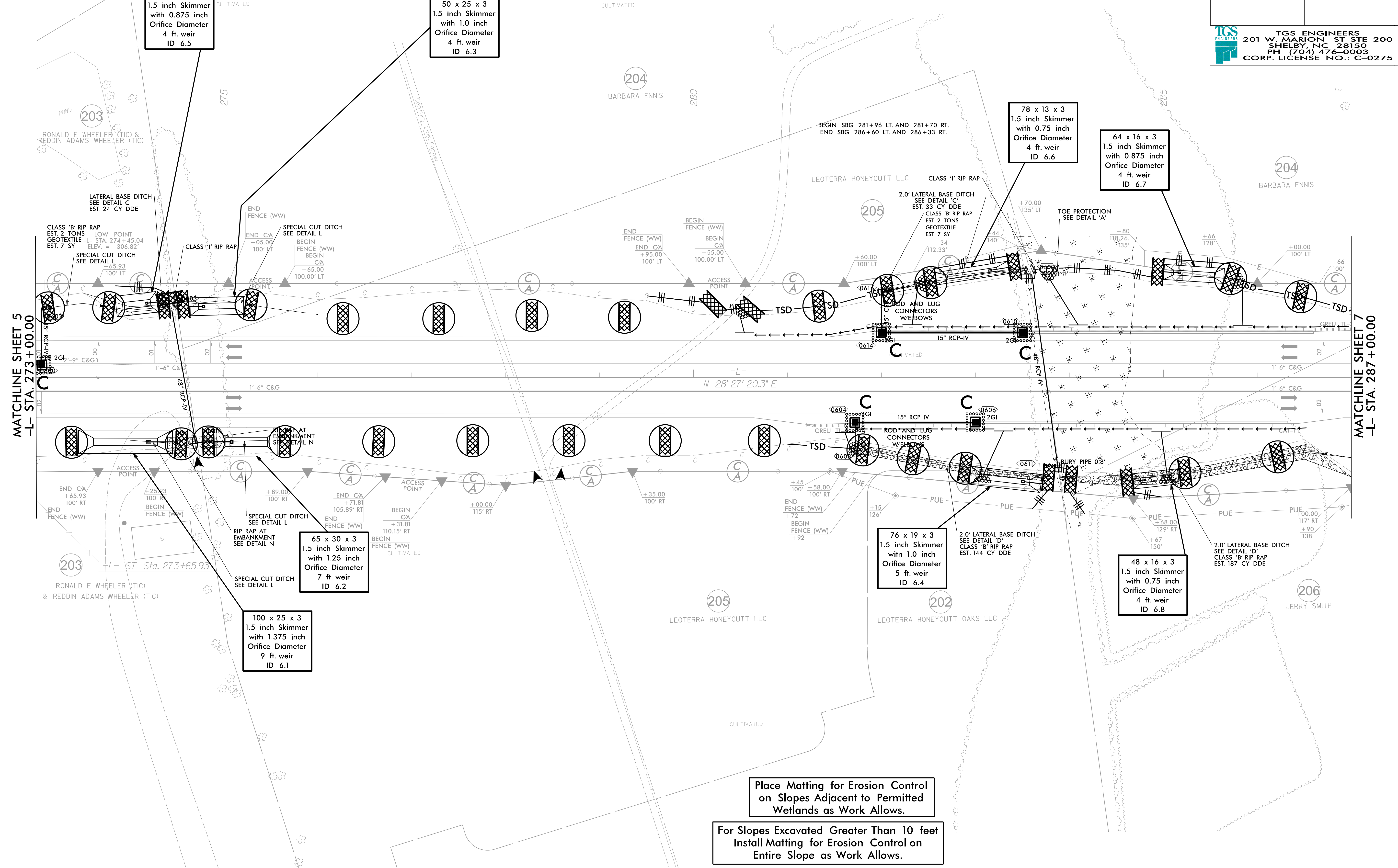
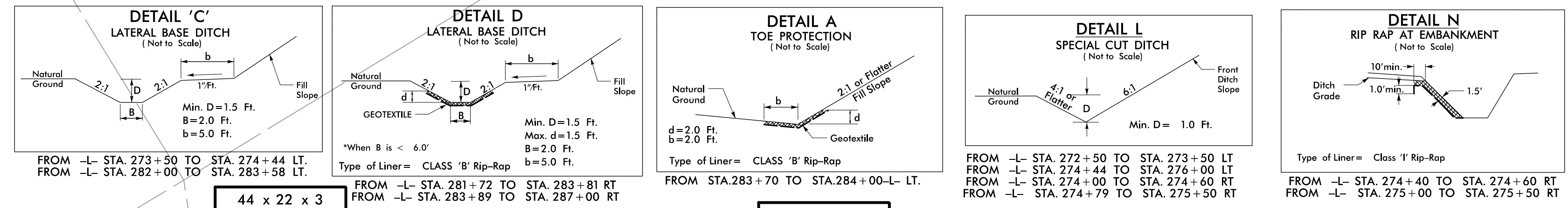
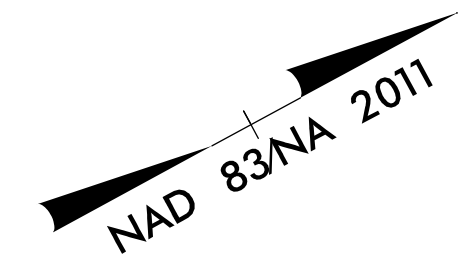


Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.  
 For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.








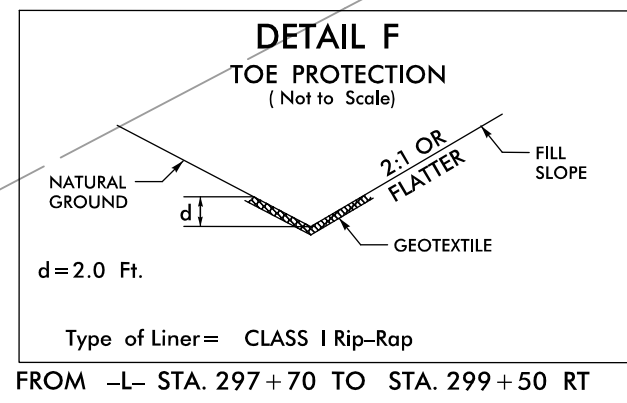
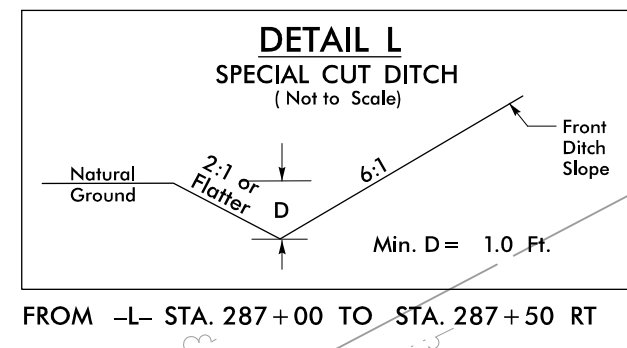
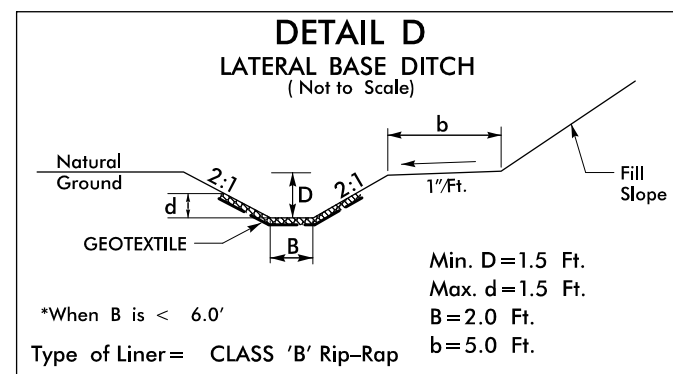


MATCHLINE SHEET 5  
-L- STA. 273+00.00

MATCHLINE SHEET 7  
-L- STA. 287+00.00

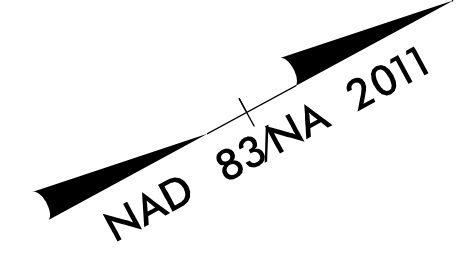


PROJECT REFERENCE NO. <i>R-5705B</i>	SHEET NO. <i>EC-29/CONST.7</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 <b>TGS ENGINEERS</b> 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



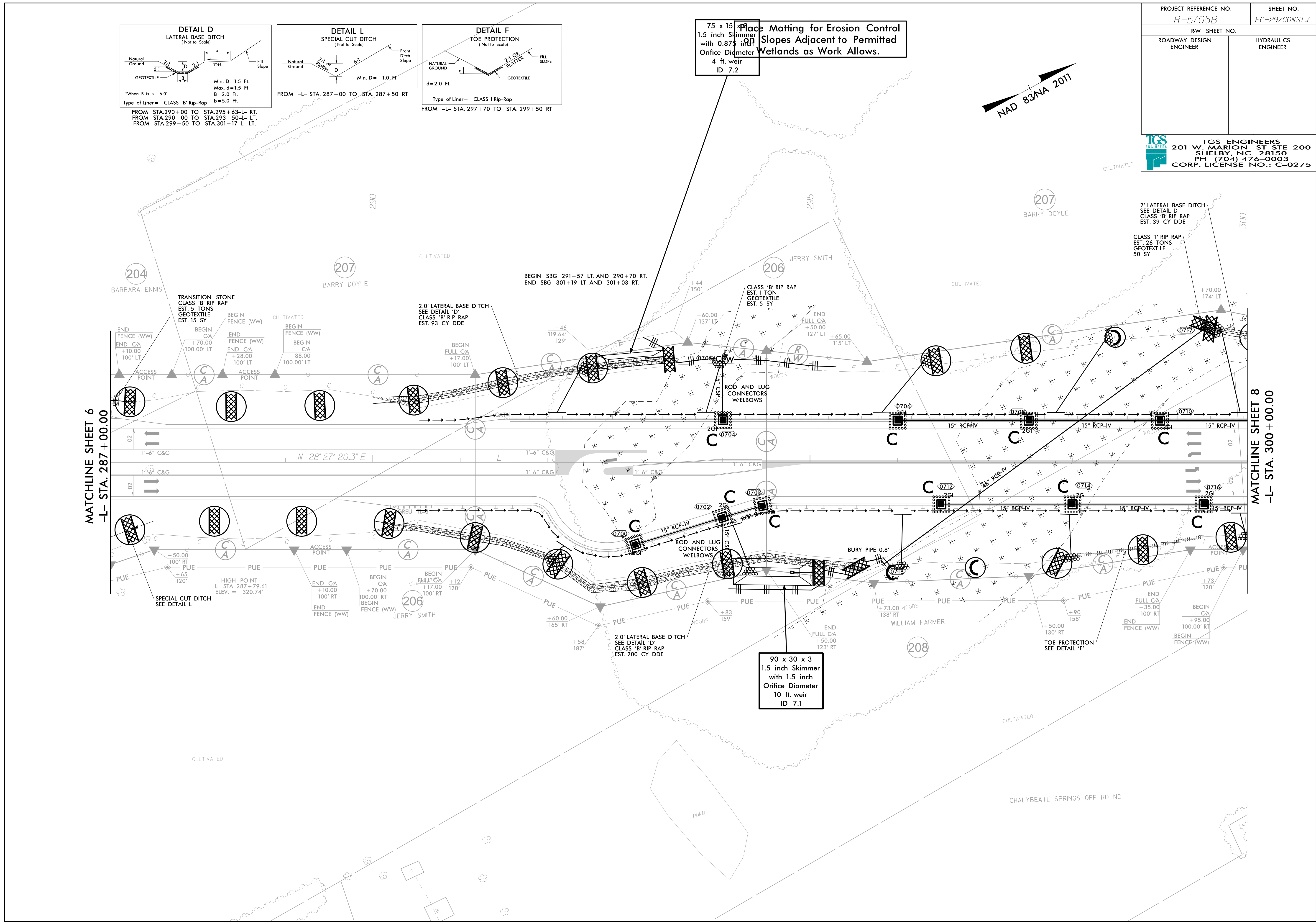
75 x 15 x 1.5 inch Skimmer with 0.875 inch Orifice Diameter  
 4 ft. weir  
 ID 7.2

90 x 30 x 3  
 1.5 inch Skimmer with 1.5 inch Orifice Diameter  
 10 ft. weir  
 ID 7.1

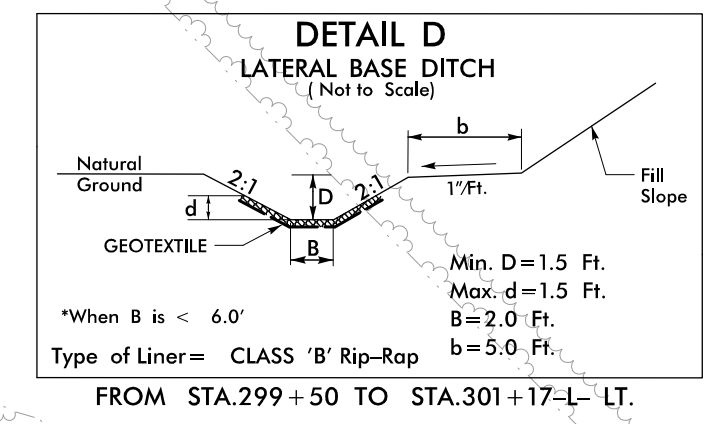
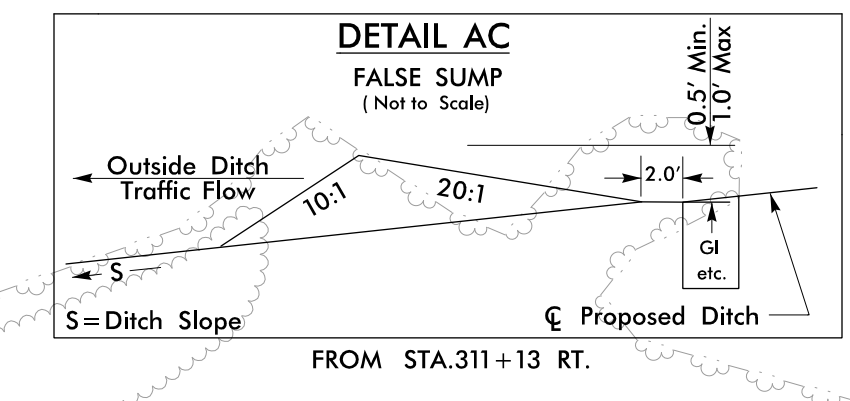
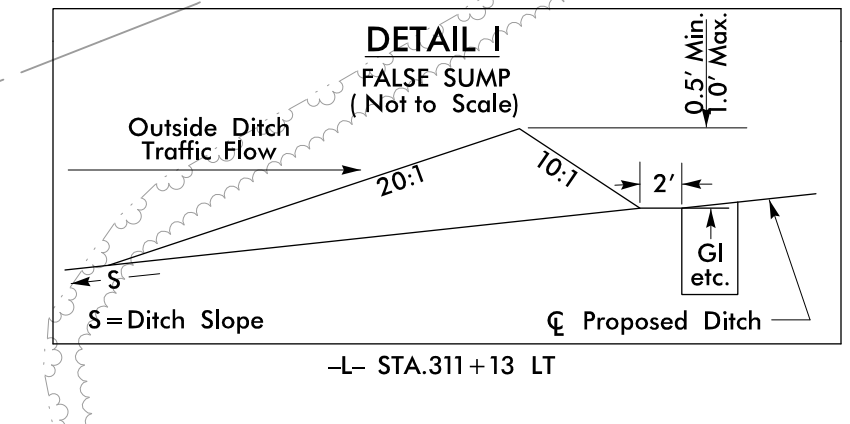
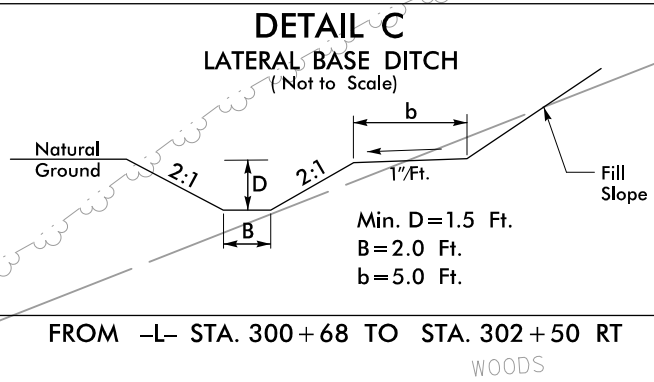
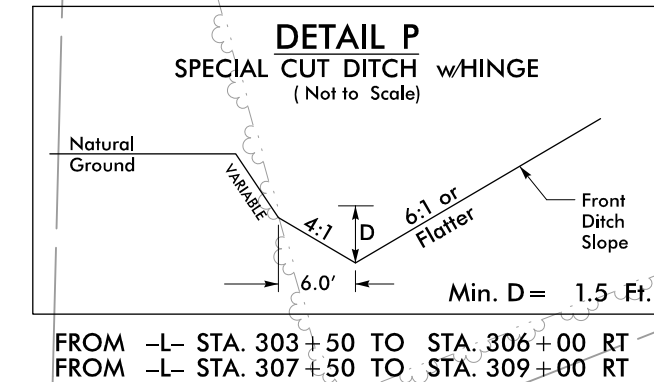
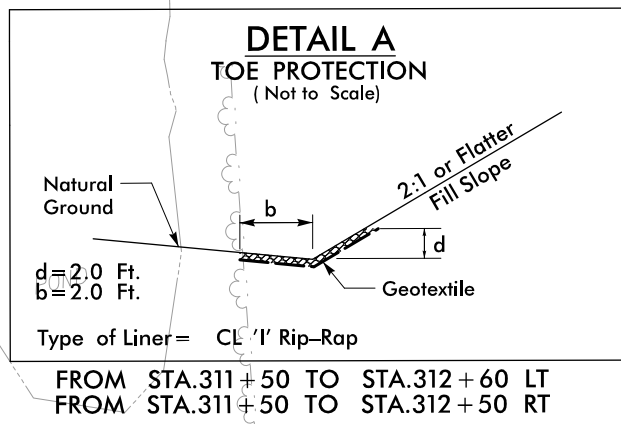
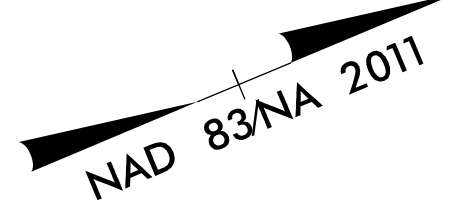


MATCHLINE SHEET 6  
 -L- STA. 287+00.00

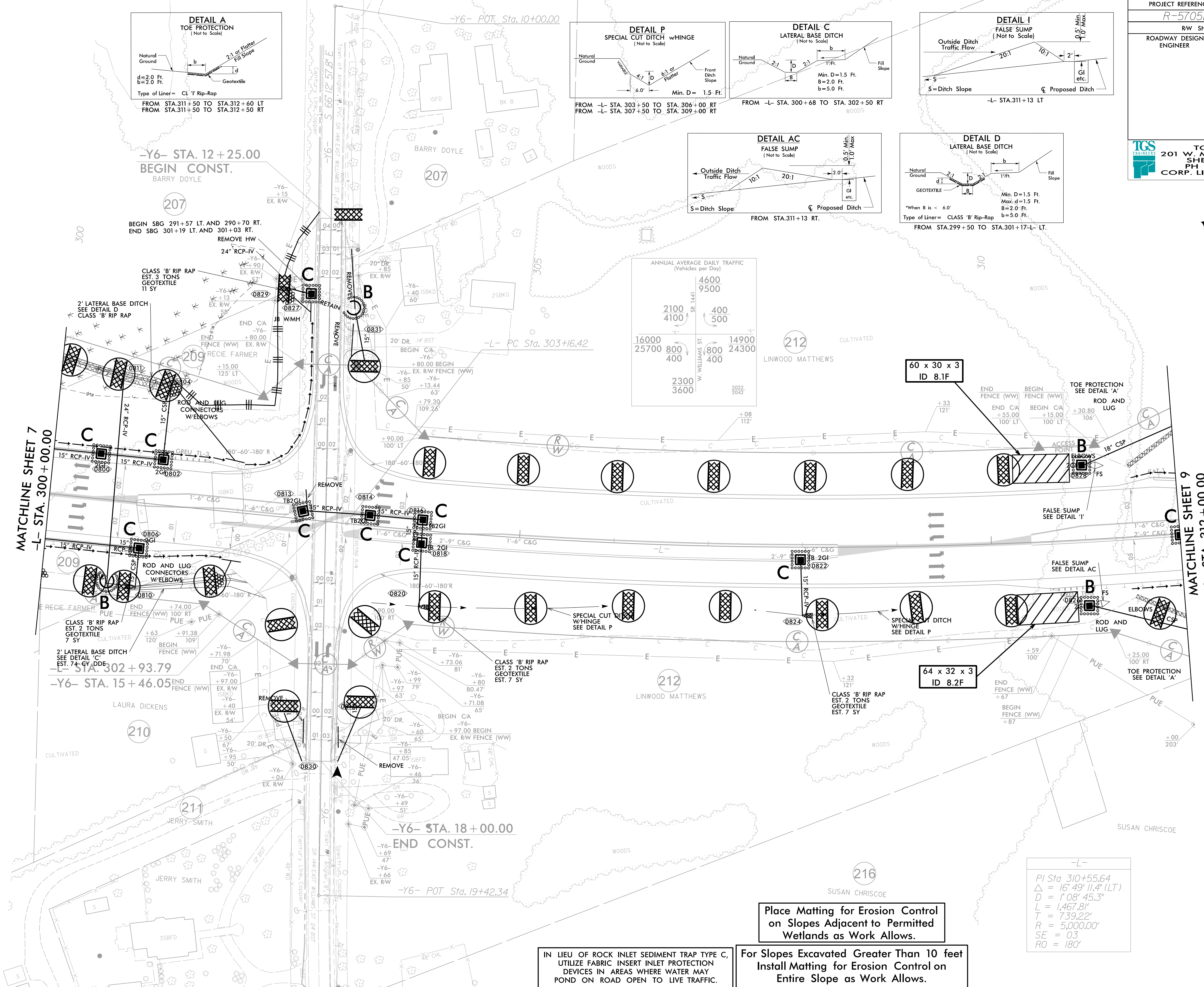
MATCHLINE SHEET 8  
 -L- STA. 300+00.00







ANNUAL AVERAGE DAILY TRAFFIC (Vehicles per Day)			
2100	4100	4600	9500
16000	25700	800	400
800	400	14900	24300
2300	3600	2822	2942



MATCHLINE SHEET 7  
-L- STA. 300 + 00.00

MATCHLINE SHEET 9  
-L- STA. 312 + 00.00

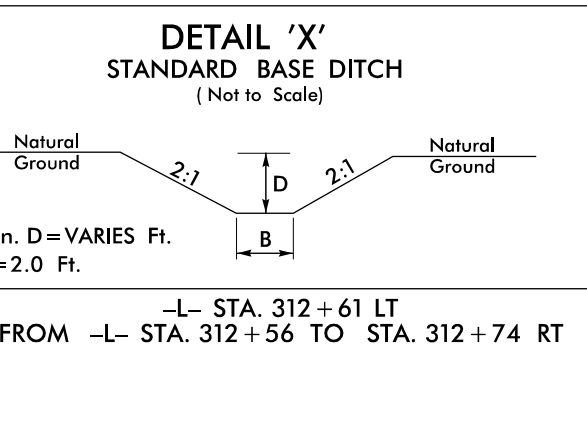
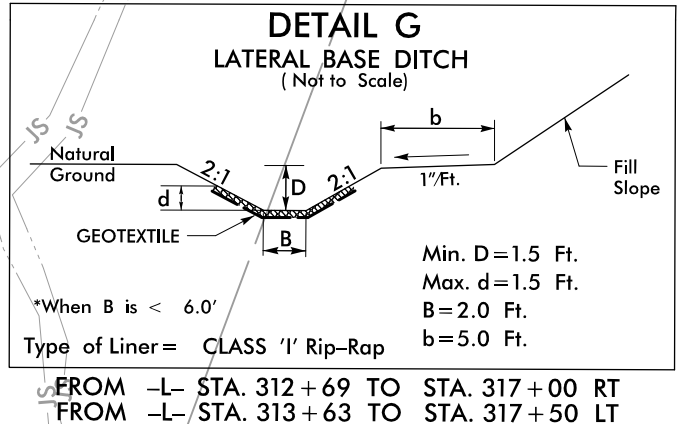
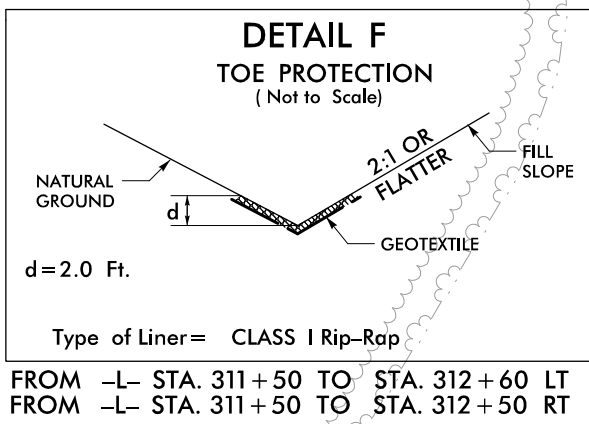
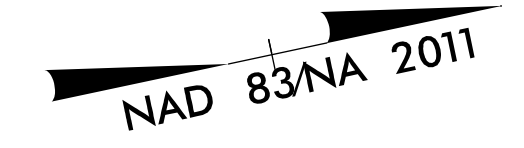
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

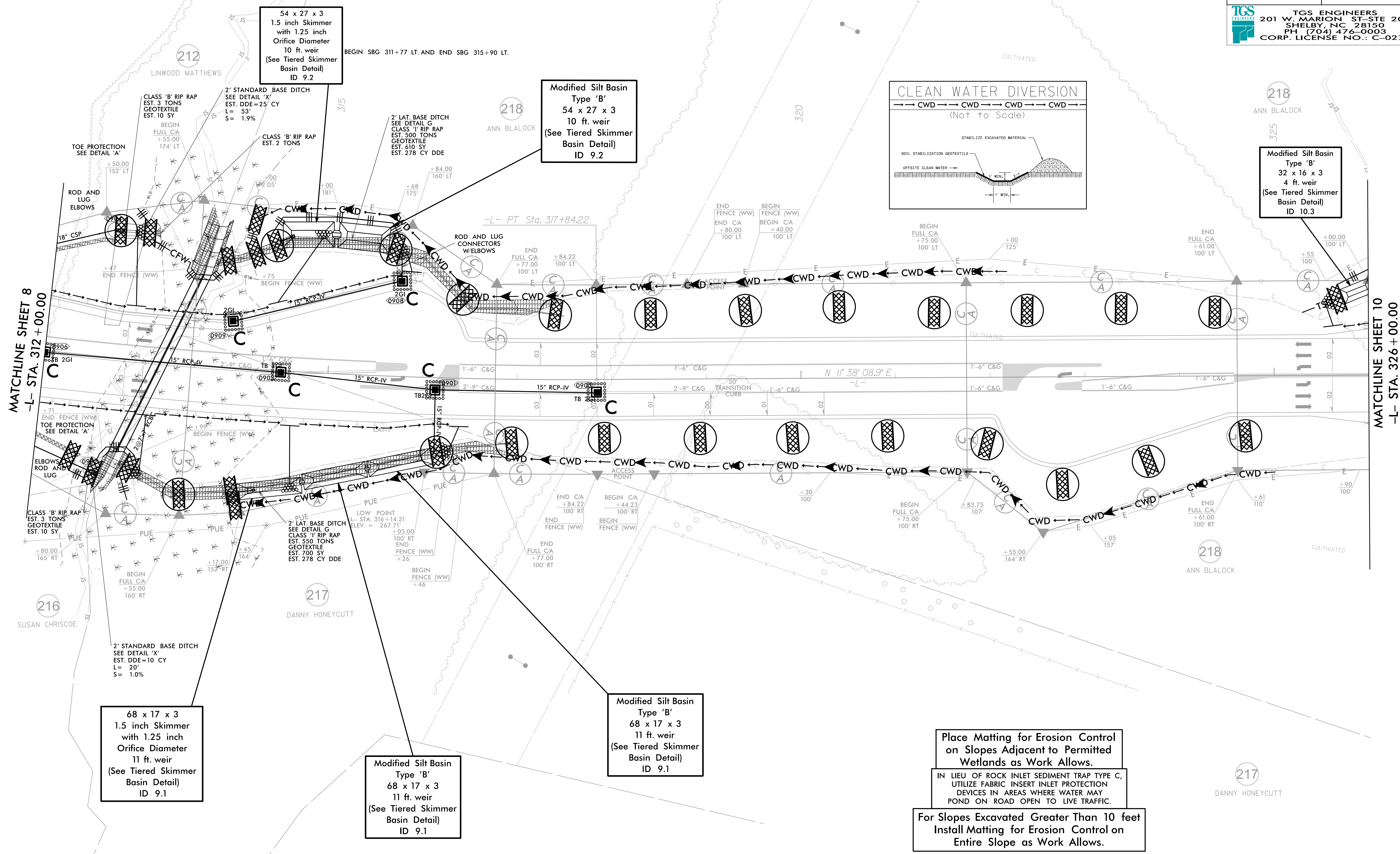
For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

-L-  
 PI Sta 310+55.64  
 $\Delta = 16' 49" 11.4" (LT)$   
 $D = 1' 08" 45.3"$   
 $L = 1,467.81'$   
 $T = 739.22'$   
 $R = 5,000.00'$   
 $SE = 03$   
 $RO = 180'$





-L-  
PI Sta 310+55.64  
Δ = 16° 49' 11.4" (LT)  
D = 1' 08" 45.3"  
L = 1,467.81'  
T = 739.22'  
R = 5,000.00'  
SE = 03  
RO = 180°



54 x 27 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
10 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.2

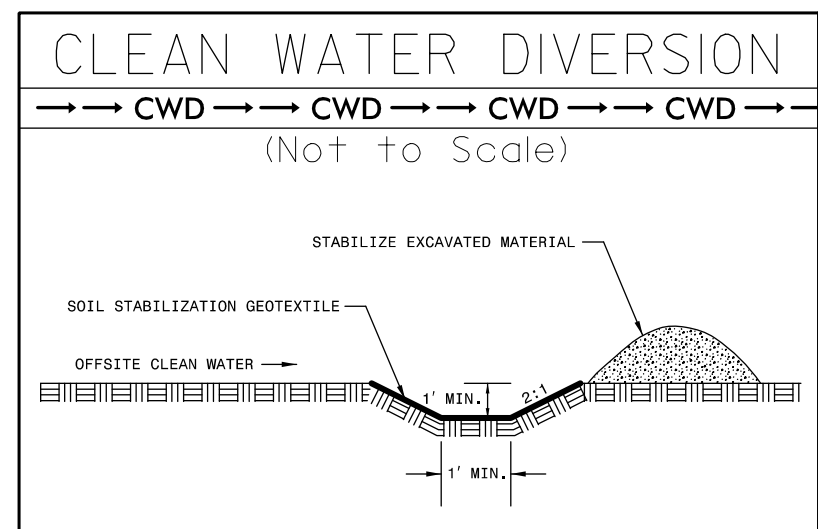
Modified Silt Basin  
Type 'B'  
54 x 27 x 3  
10 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.2

Modified Silt Basin  
Type 'B'  
32 x 16 x 3  
4 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 10.3

68 x 17 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.1

Modified Silt Basin  
Type 'B'  
68 x 17 x 3  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.1

Modified Silt Basin  
Type 'B'  
68 x 17 x 3  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.1



Place Matting for Erosion Control  
on Slopes Adjacent to Permitted  
Wetlands as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C,  
UTILIZE FABRIC INSERT INLET PROTECTION  
DEVICES IN AREAS WHERE WATER MAY  
POND ON ROAD OPEN TO LIVE TRAFFIC.

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

MATCHLINE SHEET 8  
-L- STA. 312+00.00


MATCHLINE SHEET 10  
-L- STA. 326+00.00

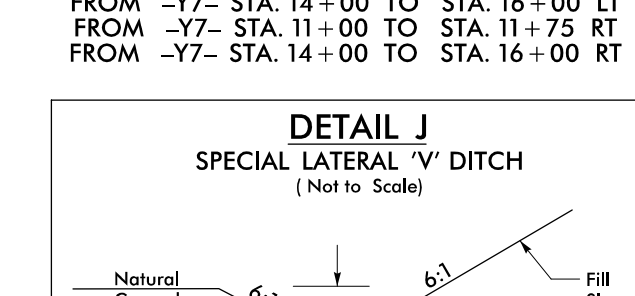
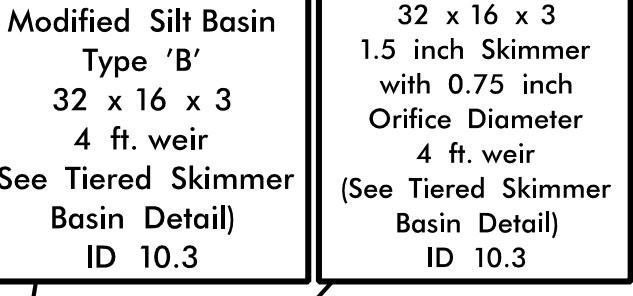
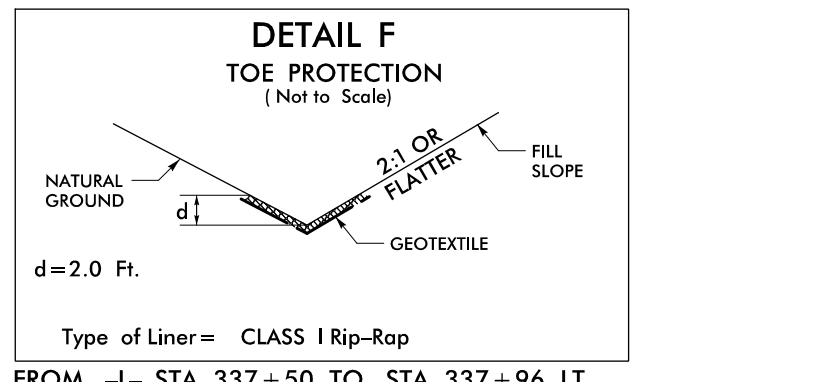
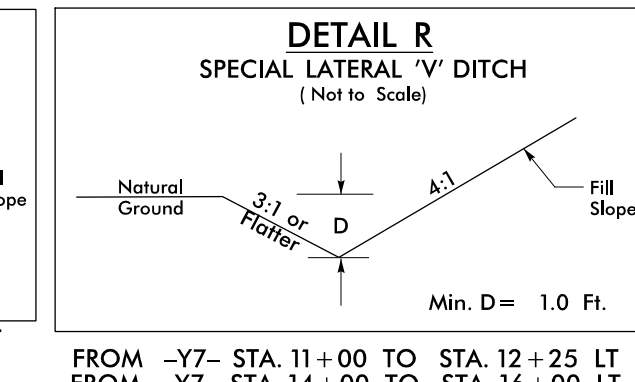
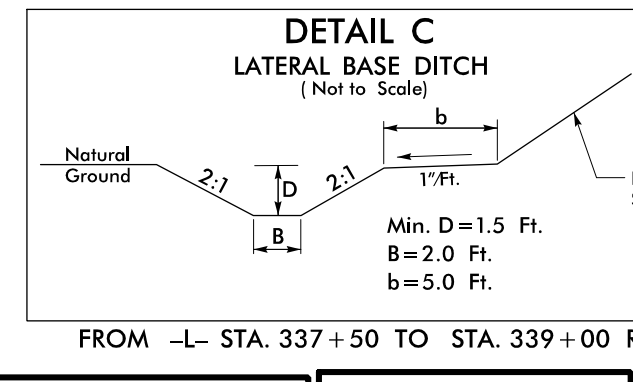
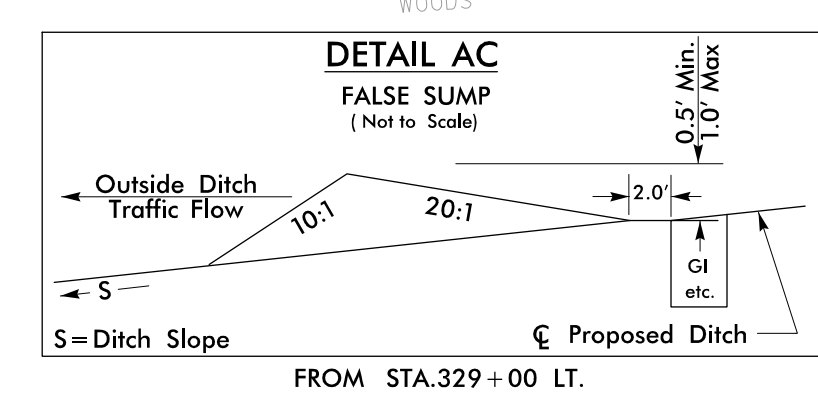
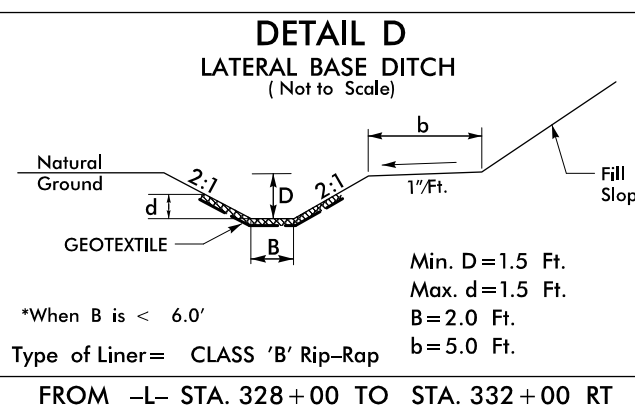
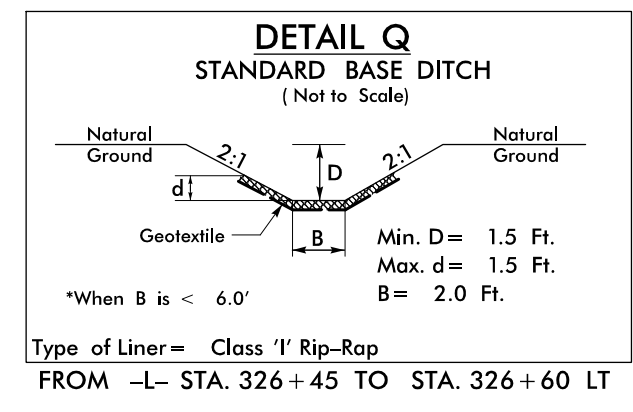


For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C,  
UTILIZE FABRIC INSERT INLET PROTECTION  
DEVICES IN AREAS WHERE WATER MAY  
POND ON ROAD OPEN TO LIVE TRAFFIC.

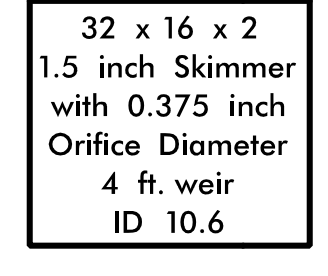
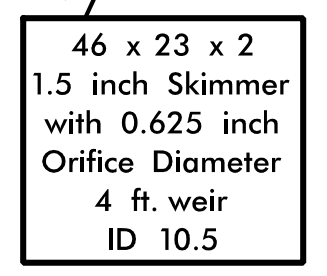
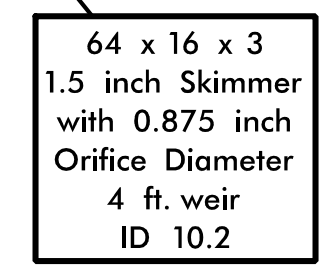
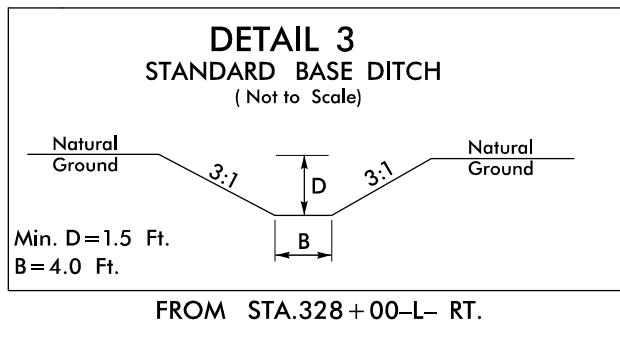
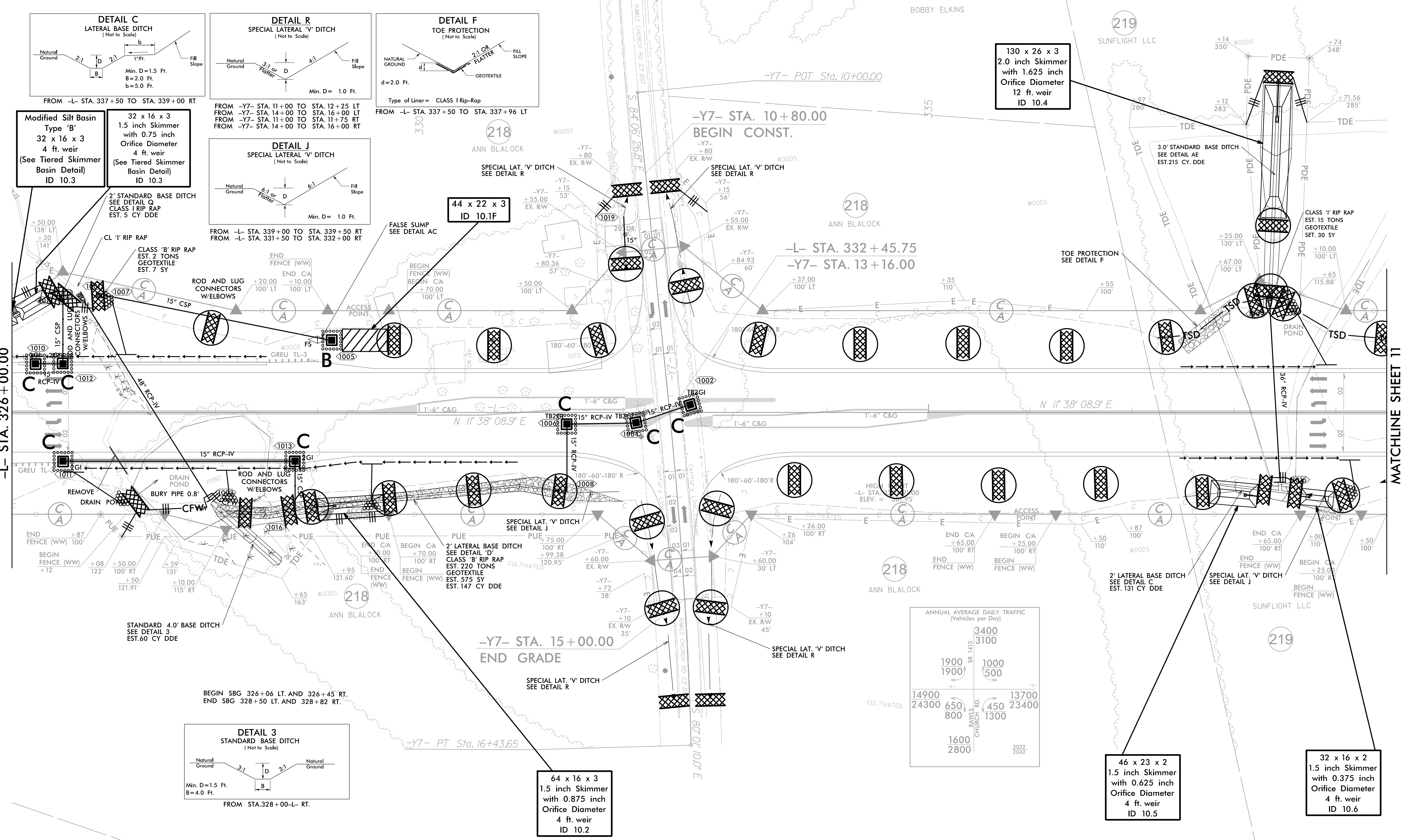
Place Matting for Erosion Control  
on Slopes Adjacent to Permitted  
Wetlands as Work Allows.

PROJECT REFERENCE NO. <b>R-5705B</b>	SHEET NO. <b>EC-32/CONST.10</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 <b>TGS ENGINEERS</b> 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	




MATCHLINE SHEET 9  
-L- STA. 326+00.00

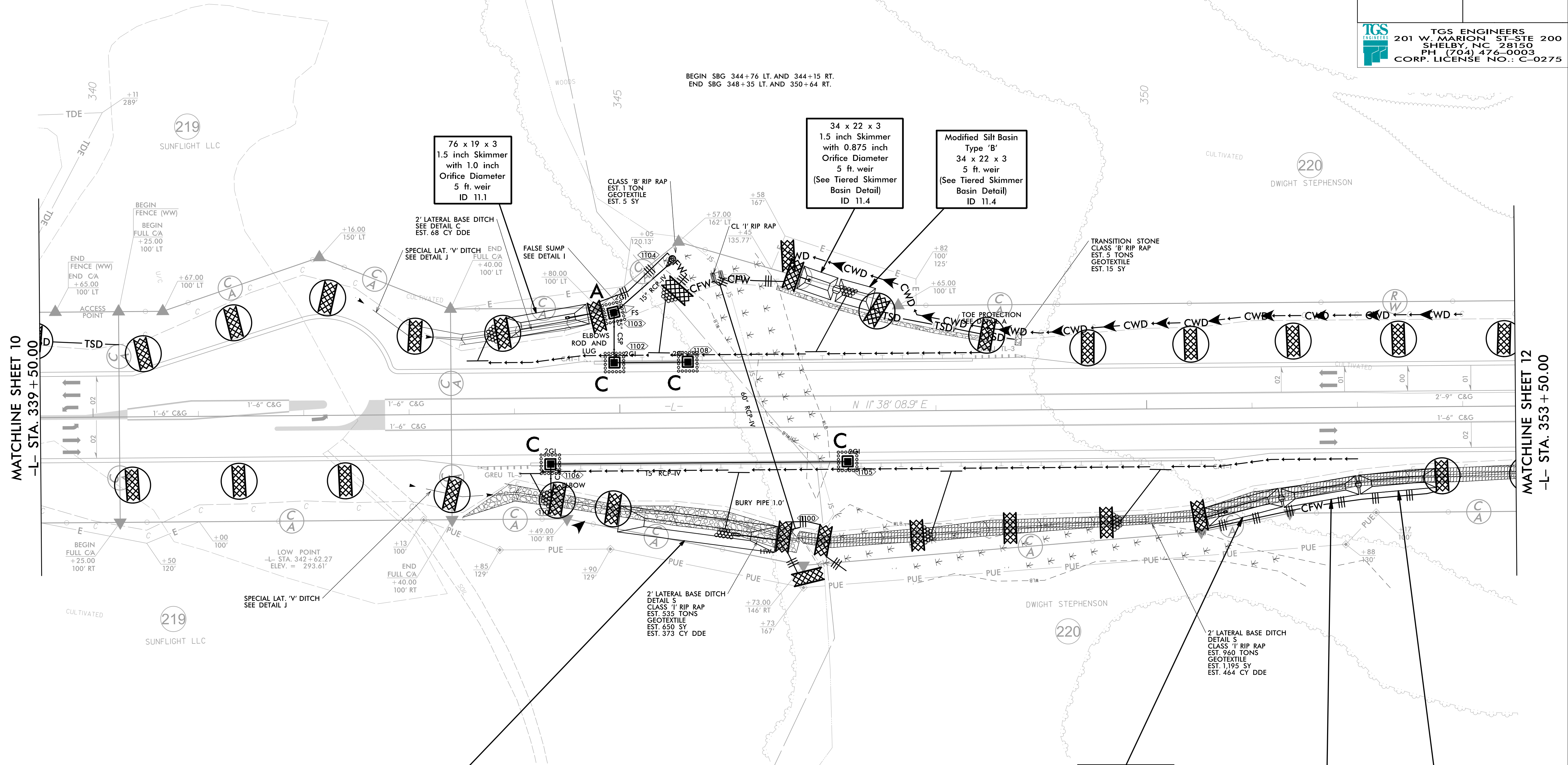
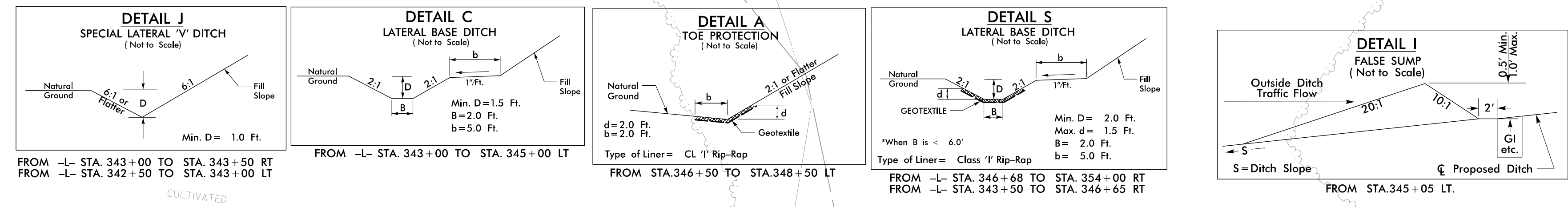
MATCHLINE SHEET 11  
-L- STA. 339+50.00





PROJECT REFERENCE NO. <i>R-5705B</i>	SHEET NO. <i>EC-33/CONST.II</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

NAD 83/NA 2011

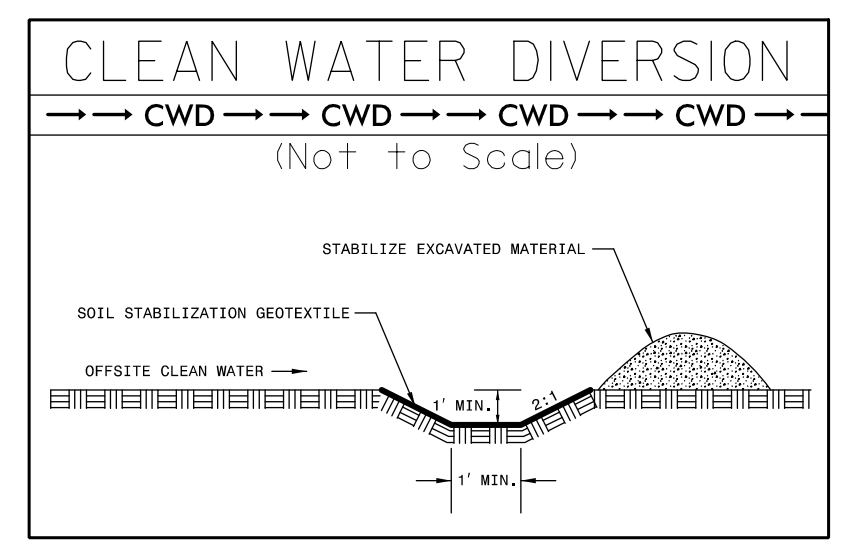


MATCHLINE SHEET 10  
-L- STA. 339 + 50.00

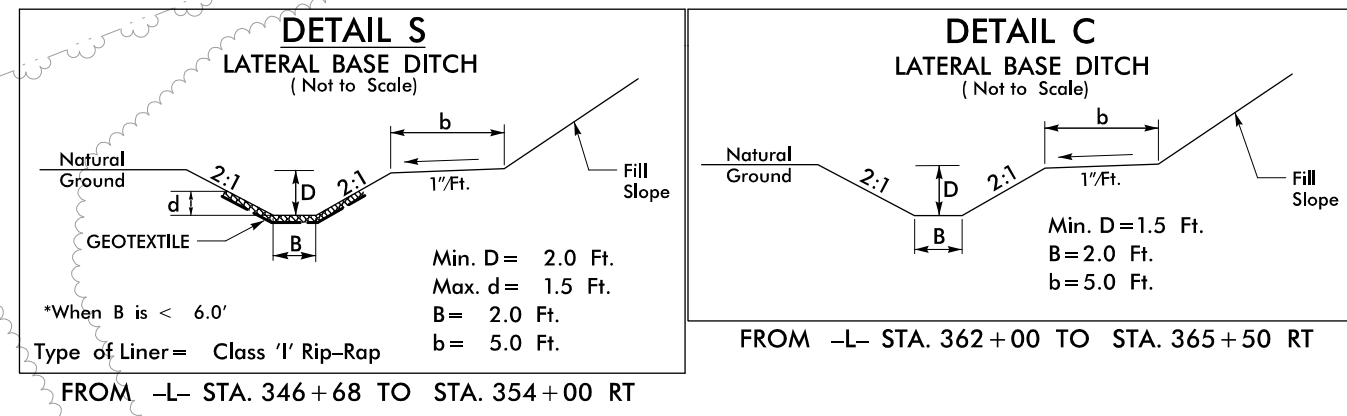
MATCHLINE SHEET 12  
-L- STA. 353 + 50.00

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

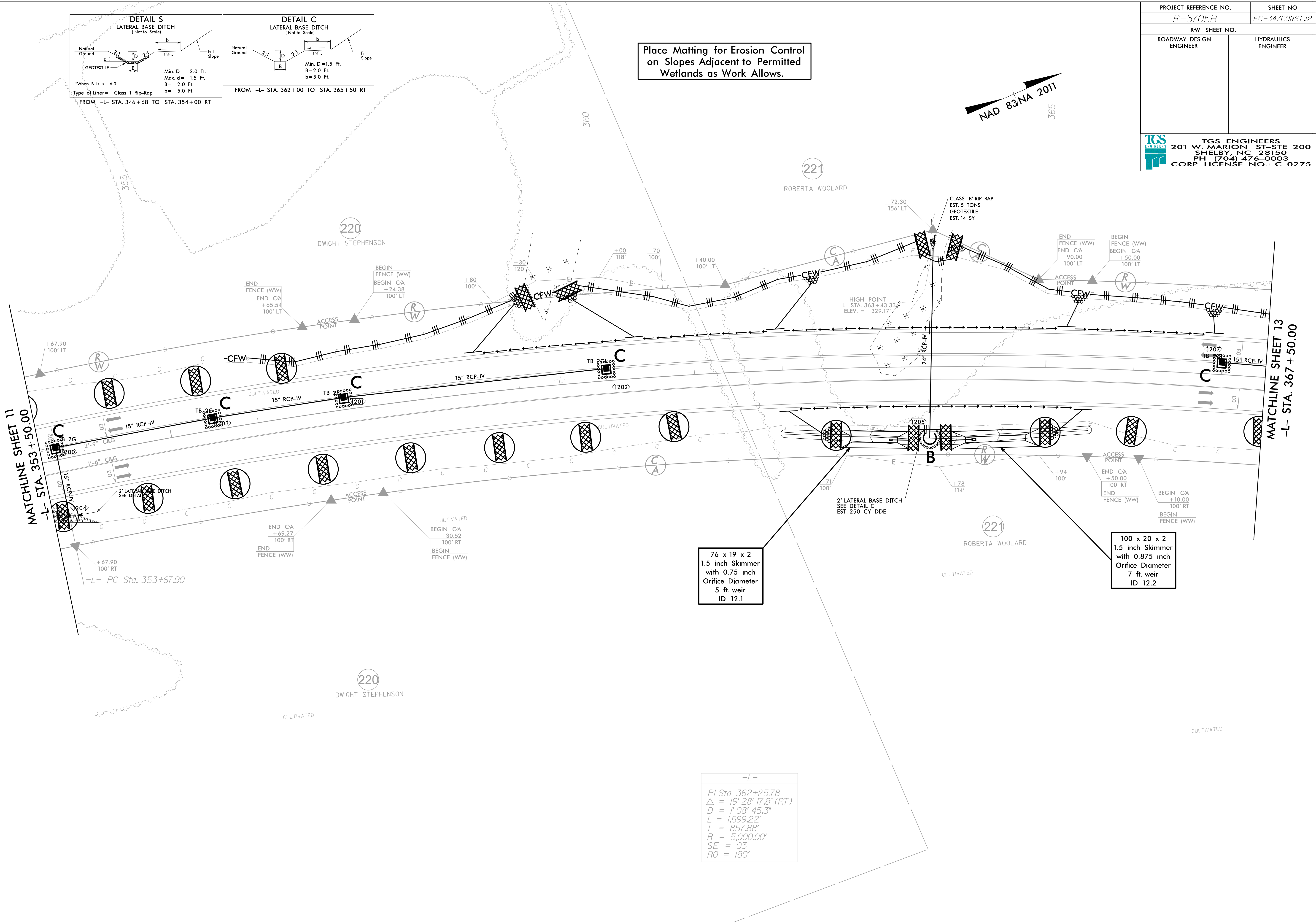
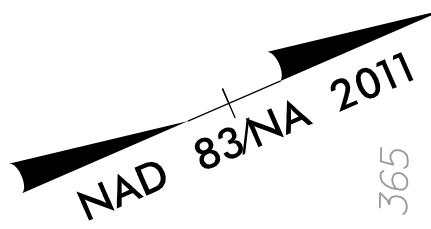
For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.







Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.



76 x 19 x 2  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
5 ft. weir  
ID 12.1

100 x 20 x 2  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
7 ft. weir  
ID 12.2

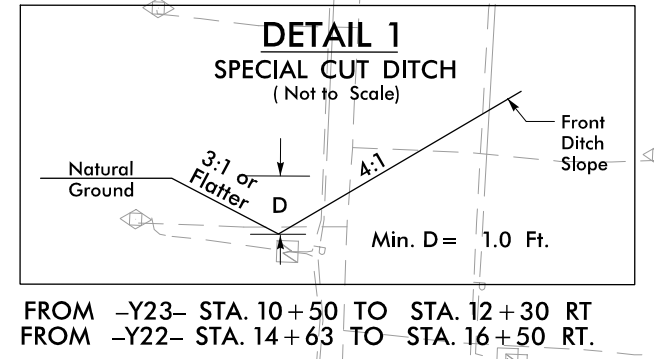
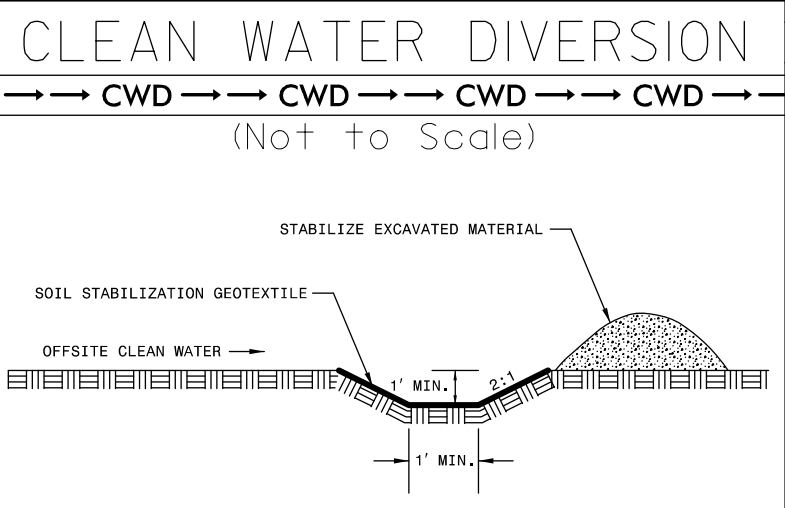
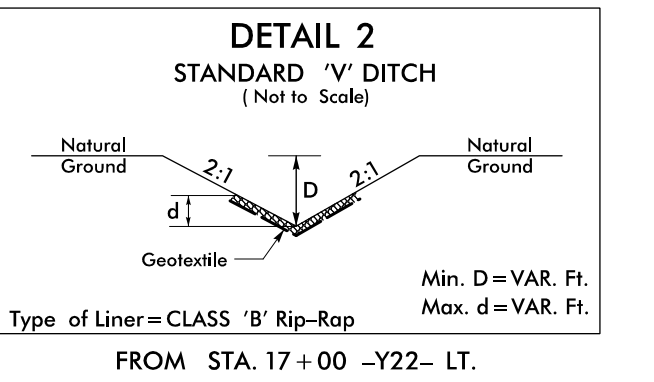
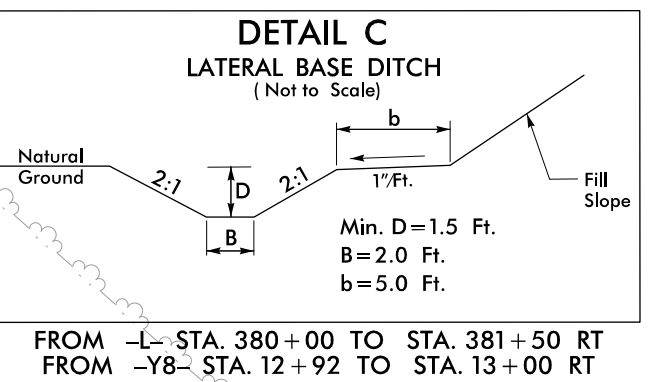
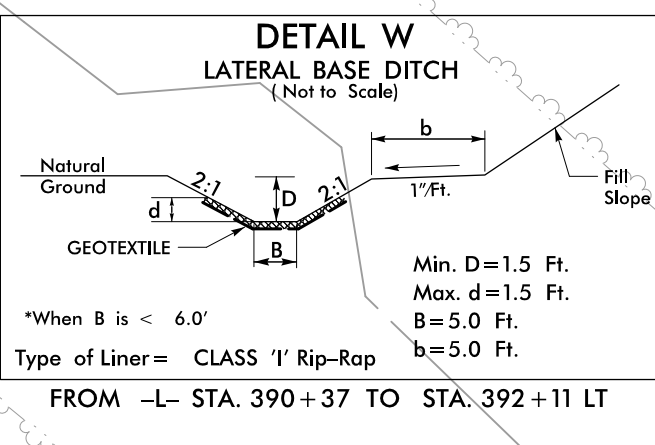
-L-  
PI Sta 362+25.78  
 $\Delta = 19' 28" 17.8" (RT)$   
 $D = 1' 08" 45.3"$   
 $L = 1,699.22'$   
 $T = 857.88'$   
 $R = 5,000.00'$   
 $SE = 0.3$   
 $RO = 180'$





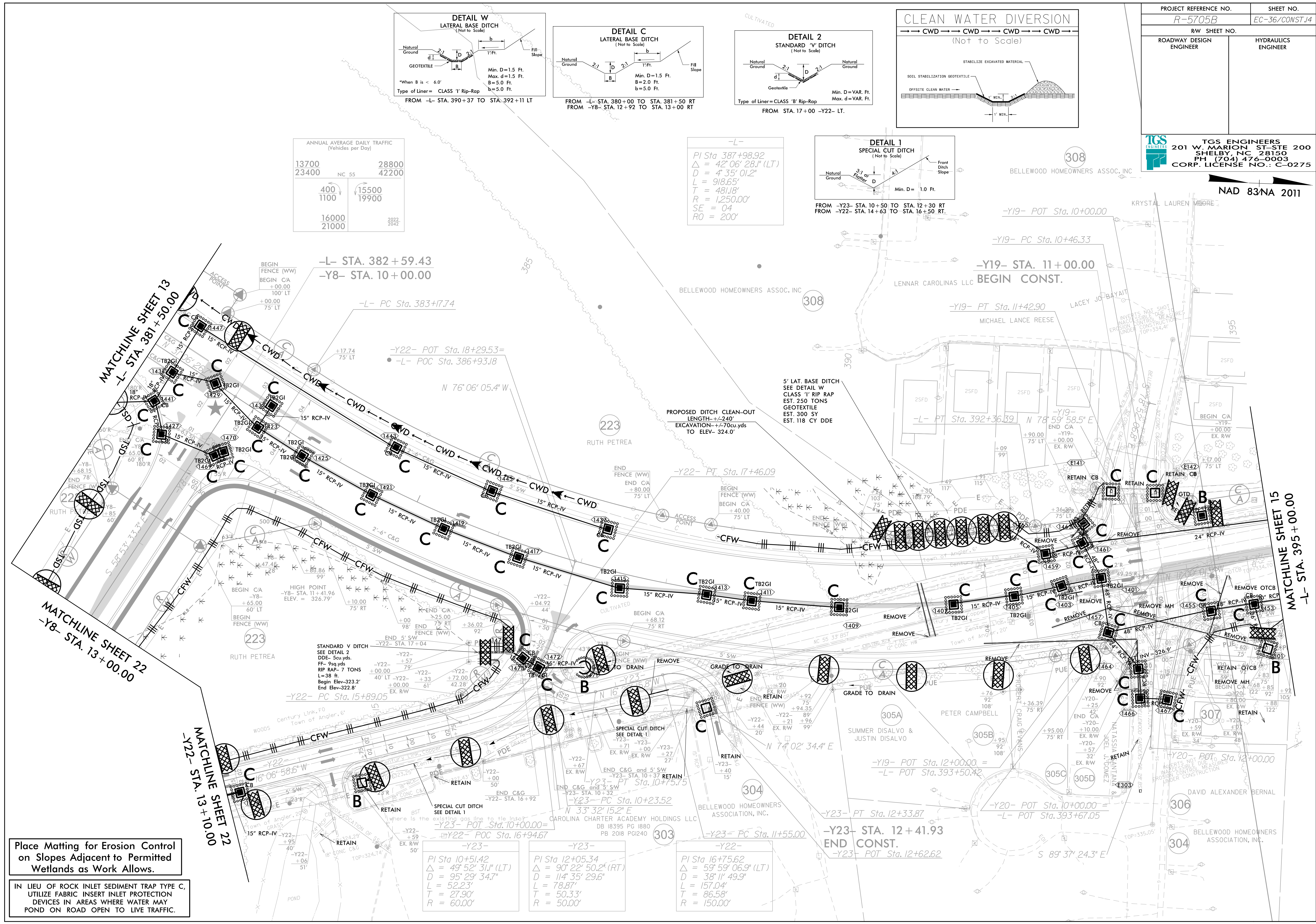


NAD 83/NA 2011



ANNUAL AVERAGE DAILY TRAFFIC (Vehicles per Day)	
13700	28800
23400	42200
NC 55	
400	15500
1100	19900
16000	3022
21000	3042

-L-  
 PI Sta 387+98.92  
 $\Delta = 42^{\circ}06'28.1''$  (LT)  
 $D = 4'35''01.2''$   
 $L = 918.65'$   
 $T = 481.18'$   
 $R = 1,250.00'$   
 $SE = 04$   
 $RO = 200'$



Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

-Y23-  
 PI Sta 10+51.42  
 $\Delta = 49^{\circ}52'31.1''$  (LT)  
 $D = 95'29'34.7''$   
 $L = 52.23'$   
 $T = 27.90'$   
 $R = 60.00'$

-Y23-  
 PI Sta 12+05.34  
 $\Delta = 90^{\circ}22'50.2''$  (RT)  
 $D = 114'35'29.6''$   
 $L = 78.87'$   
 $T = 50.33'$   
 $R = 50.00'$

-Y22-  
 PI Sta 16+75.62  
 $\Delta = 59^{\circ}59'06.9''$  (LT)  
 $D = 38'11'49.9''$   
 $L = 157.04'$   
 $T = 86.58'$   
 $R = 150.00'$



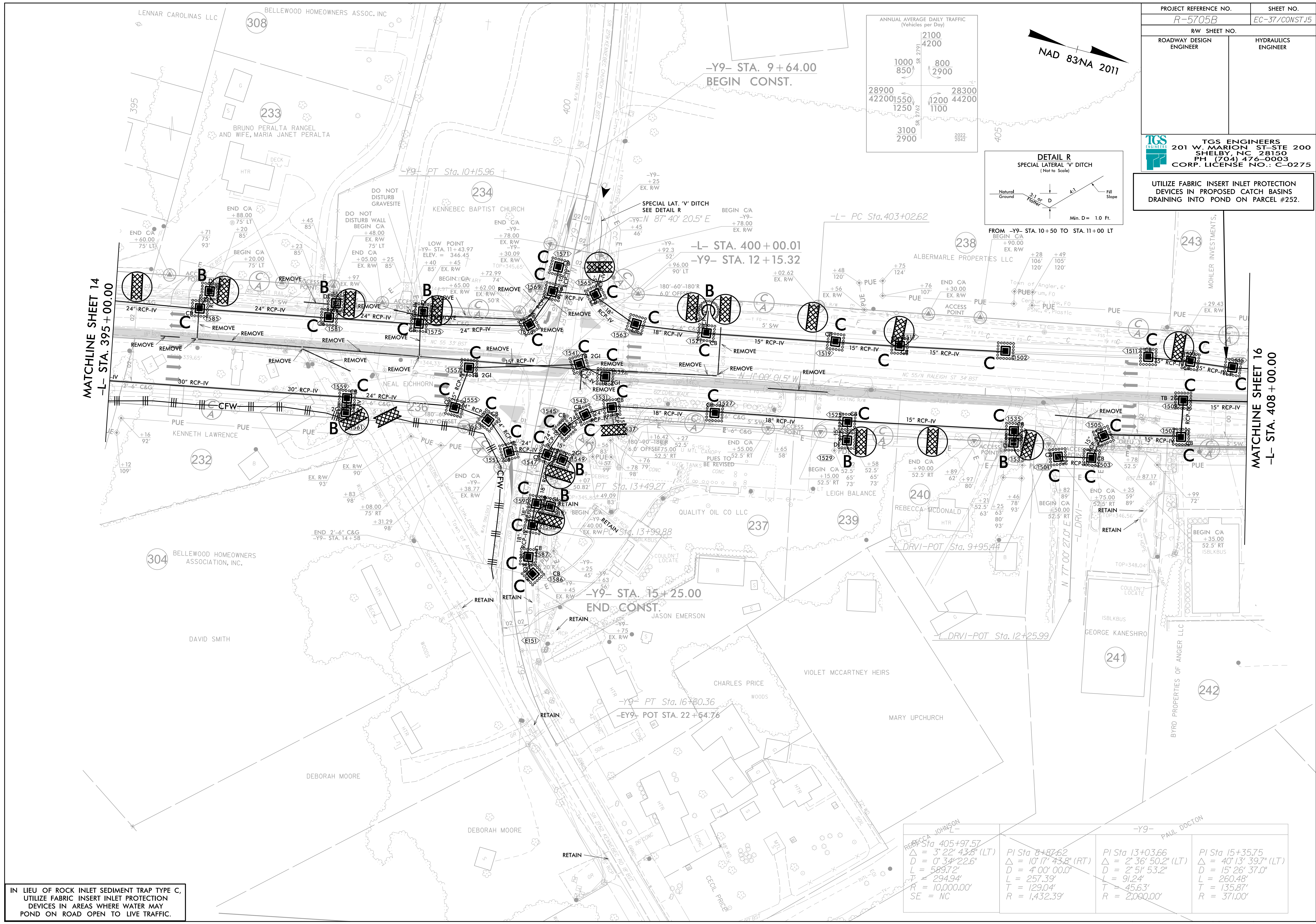
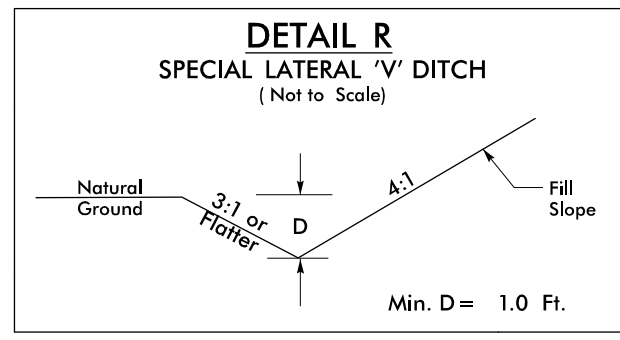
PROJECT REFERENCE NO.	SHEET NO.
R-5705B	EC-37/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**TGS ENGINEERS**  
 201 W. MARION ST. STE 200  
 SHELBY, NC 28150  
 PH (704) 476-0003  
 CORP. LICENSE NO.: C-0275

UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN PROPOSED CATCH BASINS DRAINING INTO POND ON PARCEL #252.

ANNUAL AVERAGE DAILY TRAFFIC (Vehicles per Day)

2100	4200
1000	800
28900	28300
42200	1200
1550	44200
1250	1100
3100	2022
2900	2022



MATCHLINE SHEET 14  
 -L- STA. 395+00.00

MATCHLINE SHEET 16  
 -L- STA. 408+00.00

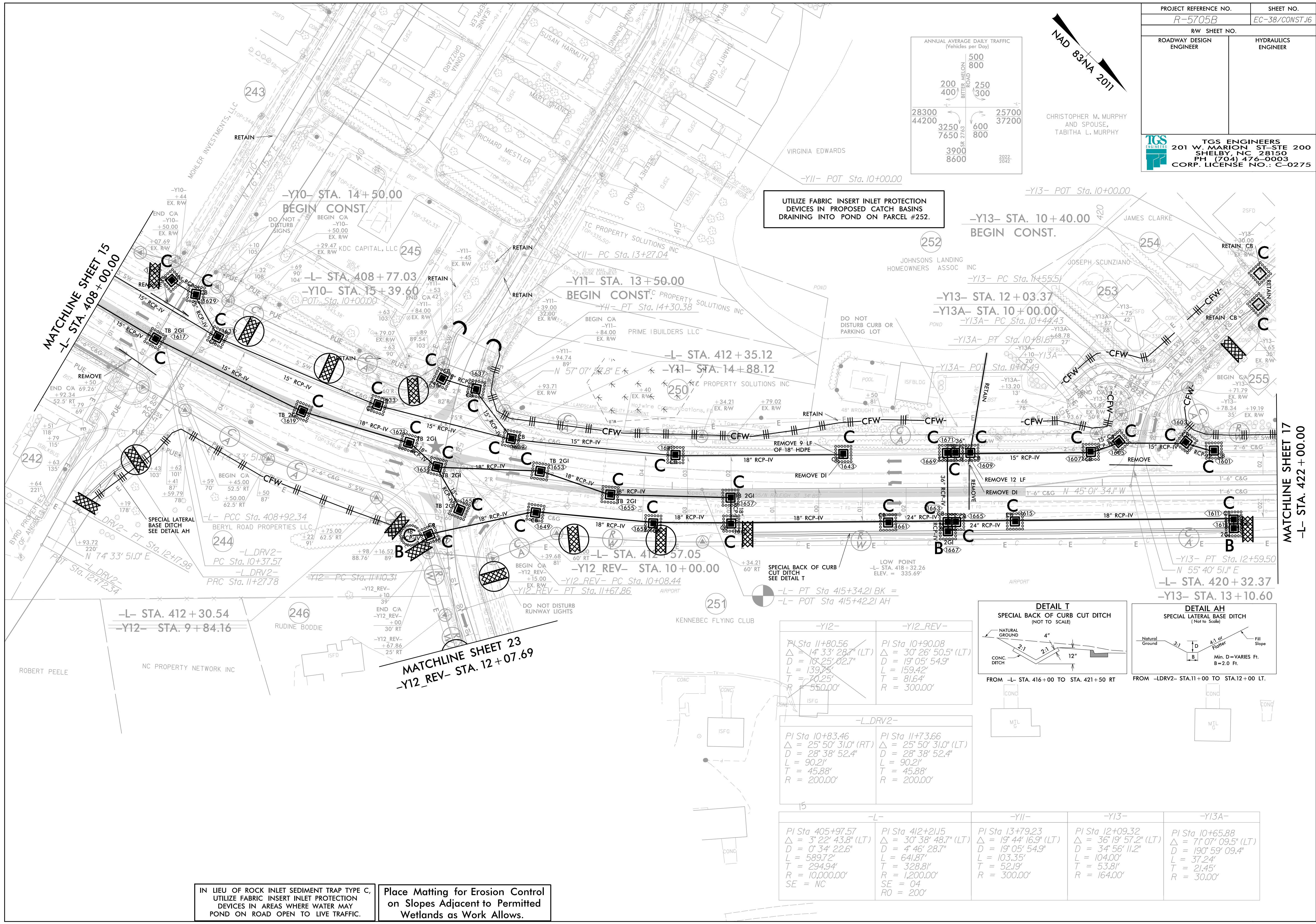
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

REBECCA JOHNSON PI Sta 405+97.57 $\Delta = 3' 22' 43.8''$ (LT) $D = 0' 34' 22.6''$ $L = 589.72'$ $T = 294.94'$ $R = 10,000.00'$ $SE = NC$	PI Sta 8+87.62 $\Delta = 10' 17' 43.8''$ (RT) $D = 4' 00' 00.0''$ $L = 257.39'$ $T = 129.04'$ $R = 1,432.39'$	PI Sta 13+03.66 $\Delta = 2' 36' 50.2''$ (LT) $D = 2' 51' 53.2''$ $L = 91.24'$ $T = 45.63'$ $R = 2,000.00'$	PI Sta 15+35.75 $\Delta = 40' 13' 39.7''$ (LT) $D = 15' 26' 37.0''$ $L = 260.48'$ $T = 135.87'$ $R = 371.00'$
--	--	--	--



ANNUAL AVERAGE DAILY TRAFFIC (Vehicles per Day)	
200 400	250 300
28300 44200	25700 37200
3250 7650	600 800
3900 8600	2822 2842

NAD 83/NA 2011



UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN PROPOSED CATCH BASINS DRAINING INTO POND ON PARCEL #252.

MATCHLINE SHEET 15  
-L- STA. 408+00.00

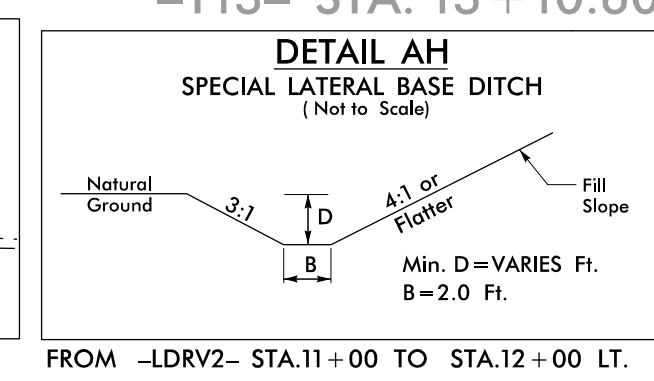
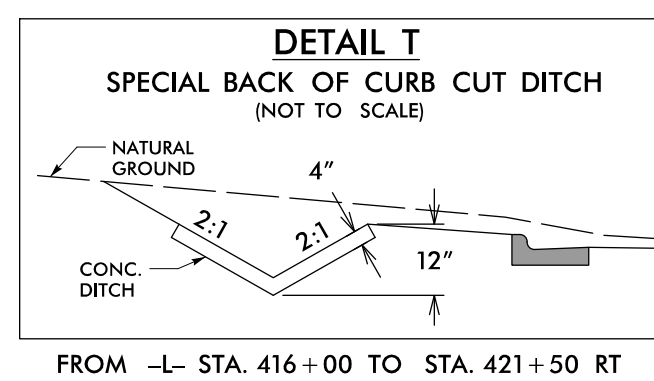
MATCHLINE SHEET 17  
-L- STA. 422+00.00

MATCHLINE SHEET 23  
-Y12\_REV- STA. 12+07.69

-Y12-	-Y12_REV-
PI Sta 11+80.56 Δ = 14° 33' 28.7" (LT) D = 18° 25' 02.7" L = 139.75' T = 70.25' R = 550.00'	PI Sta 10+90.08 Δ = 30° 26' 50.5" (LT) D = 19° 05' 54.9" L = 159.42' T = 81.64' R = 300.00'

-L-DRV2-	
PI Sta 10+83.46 Δ = 25° 50' 31.0" (RT) D = 28° 38' 52.4" L = 90.21' T = 45.88' R = 200.00'	PI Sta 11+73.66 Δ = 25° 50' 31.0" (LT) D = 28° 38' 52.4" L = 90.21' T = 45.88' R = 200.00'

-L-	-Y11-	-Y13-	-Y13A-
PI Sta 405+97.57 Δ = 3° 22' 43.8" (LT) D = 0° 34' 22.6" L = 589.72' T = 294.94' R = 10,000.00' SE = NC	PI Sta 412+21.15 Δ = 30° 38' 48.7" (LT) D = 4° 46' 28.7" L = 641.87' T = 328.81' R = 1,200.00' SE = 04 RO = 200'	PI Sta 13+79.23 Δ = 19° 44' 16.9" (LT) D = 19° 05' 54.9" L = 103.35' T = 52.19' R = 300.00'	PI Sta 12+09.32 Δ = 36° 19' 57.2" (LT) D = 34° 56' 11.2" L = 104.00' T = 53.81' R = 164.00'
		PI Sta 10+65.88 Δ = 7° 07' 09.5" (LT) D = 190° 59' 09.4" L = 37.24' T = 21.45' R = 30.00'	



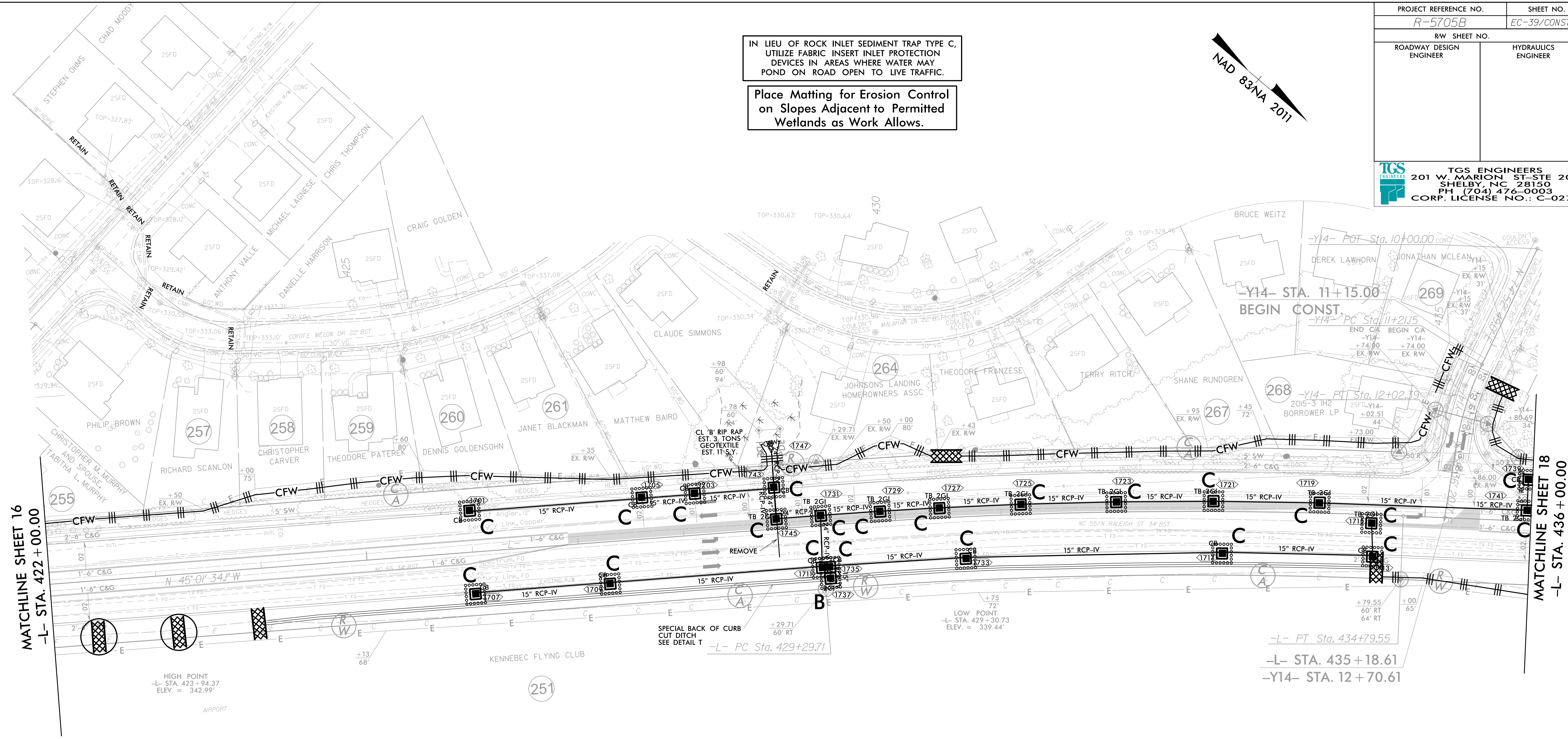
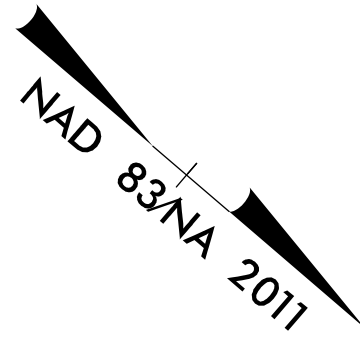
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

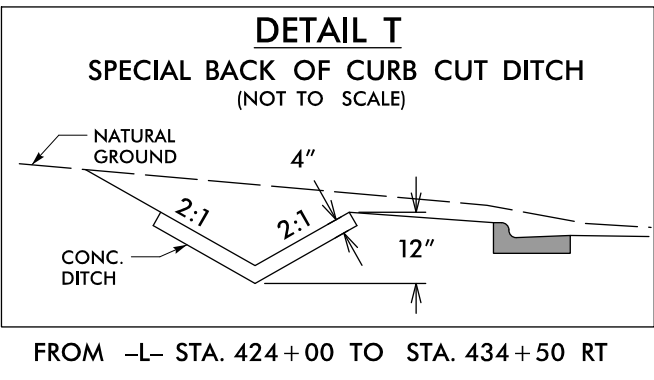


IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.



MATCHLINE SHEET 18  
-L- STA. 436+00.00



FROM -L- STA. 424+00 TO STA. 434+50 RT

-L-	-Y14-
PI Sta 432+04.95	PI Sta 11+62.05
$\Delta = 6' 48'' 15.4'' (RT)$	$\Delta = 16' 16'' 29.0'' (LT)$
$D = 1' 14'' 15.0''$	$D = 20' 02'' 00.6''$
$L = 549.85'$	$L = 81.24'$
$T = 275.25'$	$T = 40.89'$
$R = 4,630.00'$	$R = 286.00'$
$SE = 02$	
$RO = 100'$	

HIGH POINT  
-L- STA. 423+94.37  
ELEV. = 342.99'

SPECIAL BACK OF CURB CUT DITCH SEE DETAIL T  
-L- PC Sta. 429+29.71

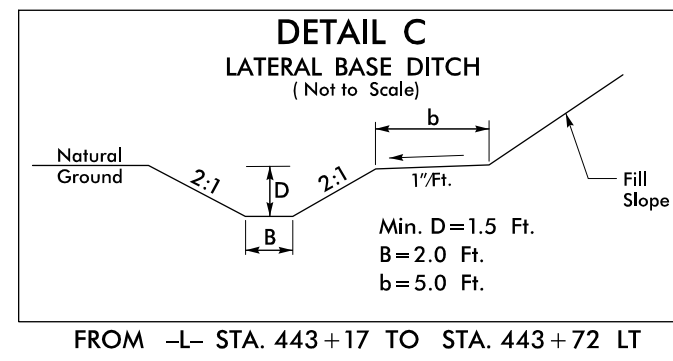
LOW POINT  
-L- STA. 429+30.73  
ELEV. = 339.44'

-L- PT Sta. 434+79.55  
-L- STA. 435+18.61  
-Y14- STA. 12+70.61

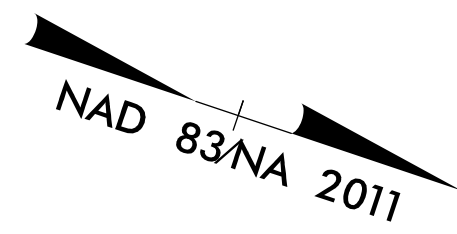


PROJECT REFERENCE NO.	SHEET NO.
R-5705B	EC-40/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

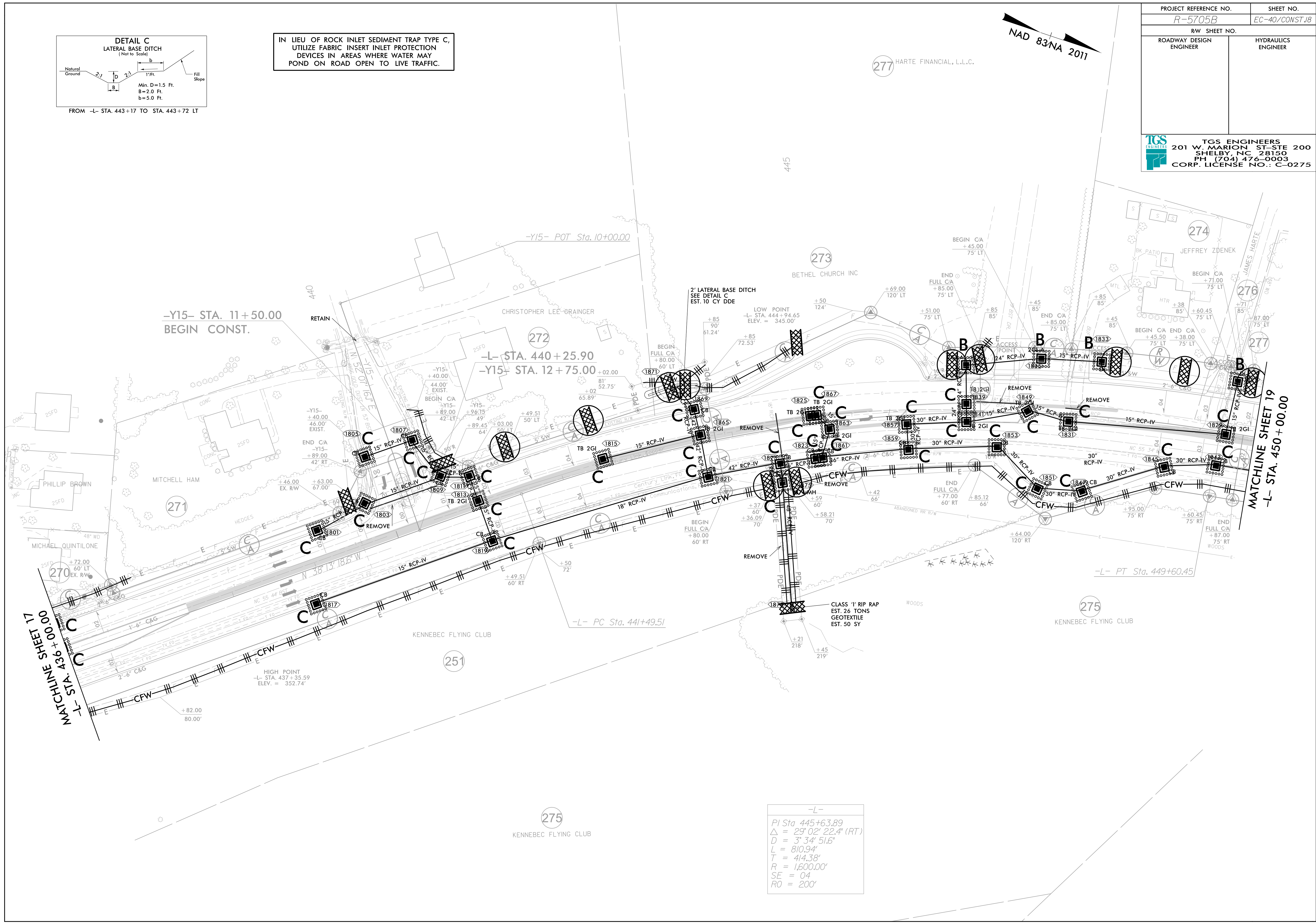
TGS ENGINEERS  
 201 W. MARION ST-STE 200  
 SHELBY, NC 28150  
 PH (704) 476-0003  
 CORP. LICENSE NO.: C-0275



IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.



277 HARTE FINANCIAL, L.L.C.



MATCHLINE SHEET 17  
 -L- STA. 436+00.00

MATCHLINE SHEET 19  
 -L- STA. 450+00.00

-Y15- STA. 11+50.00  
 BEGIN CONST.

-L- STA. 440+25.90  
 -Y15- STA. 12+75.00

HIGH POINT  
 -L- STA. 437+35.59  
 ELEV. = 352.74'

2' LATERAL BASE DITCH  
 SEE DETAIL C  
 EST. 10 CY DDE

CLASS 'I' RIP RAP  
 EST. 26 TONS  
 GEOTEXTILE  
 EST. 50 SY

-L-  
 PI Sta 445+63.89  
 $\Delta = 29^{\circ}02'22.4''$  (RT)  
 D = 3' 34' 51.6"  
 L = 810.94'  
 T = 414.38'  
 R = 1,600.00'  
 SE = 04  
 RO = 200'

275  
 KENNEBEC FLYING CLUB

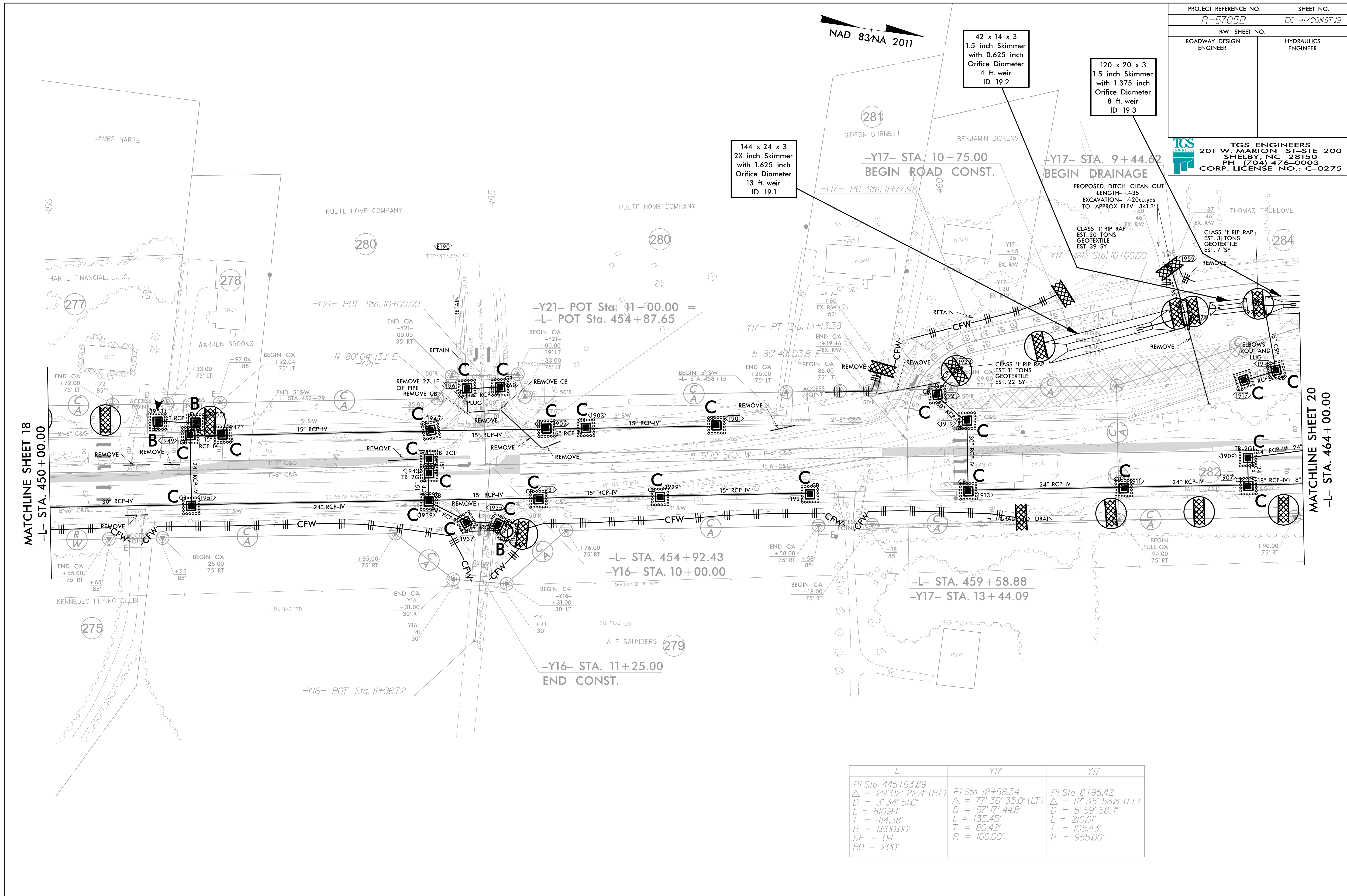
275  
 KENNEBEC FLYING CLUB

-Y15- POT Sta. 10+00.00

-L- PT Sta. 449+60.45

-L- PC Sta. 441+49.51





144 x 24 x 3  
2X inch Skimmer  
with 1.625 inch  
Orifice Diameter  
13 ft. weir  
ID 19.1

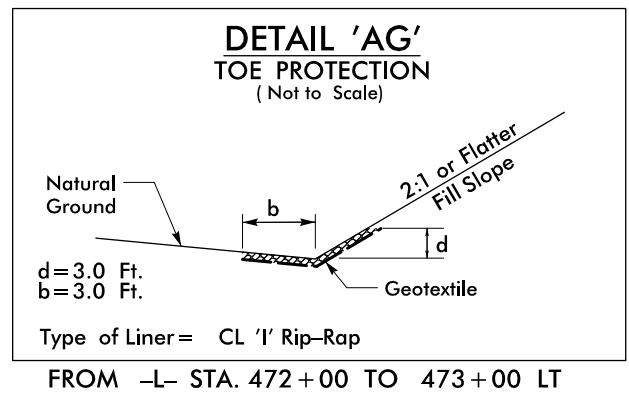
42 x 14 x 3  
1.5 inch Skimmer  
with 0.625 inch  
Orifice Diameter  
4 ft. weir  
ID 19.2

120 x 20 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
8 ft. weir  
ID 19.3

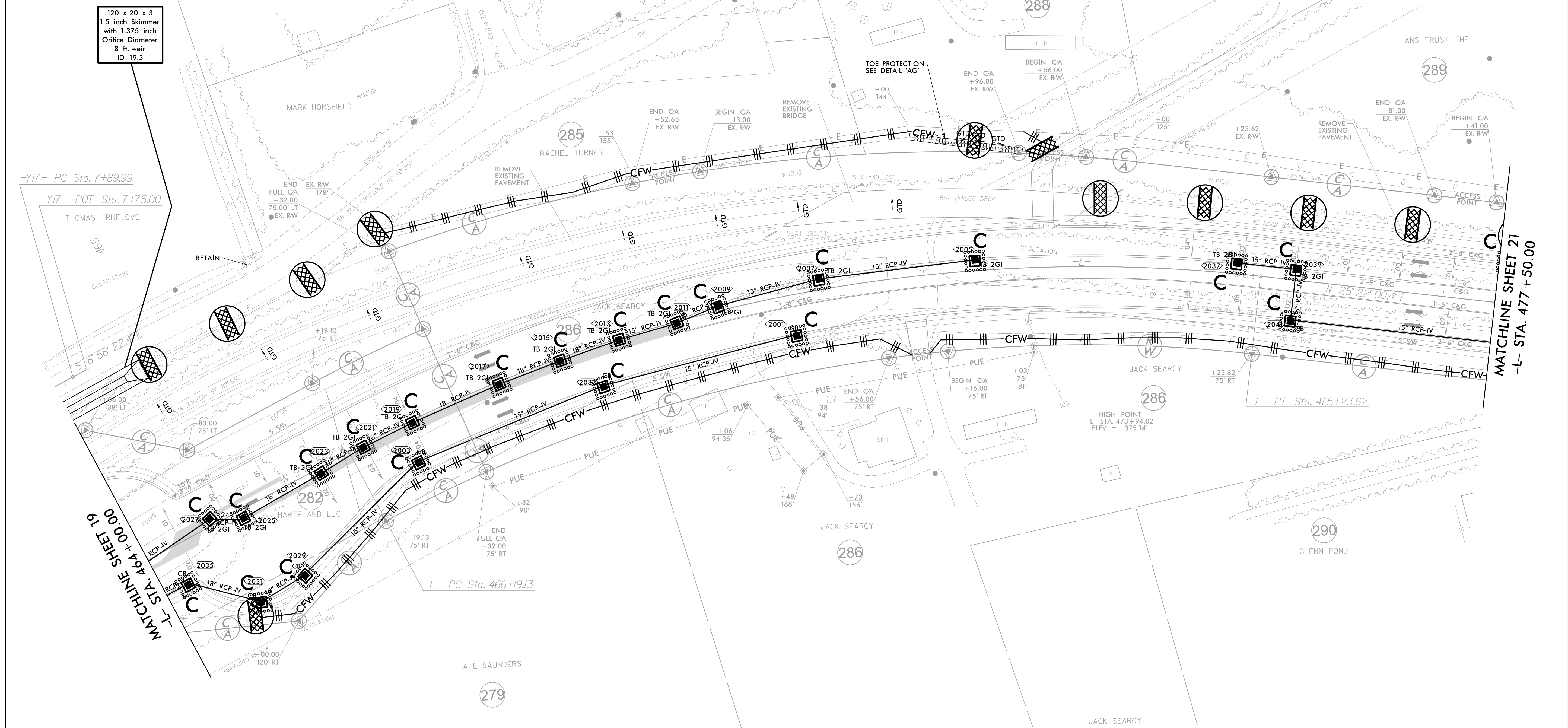
-L-	-Y17-	-Y17-
PI Sta 445+63.89	PI Sta 12+58.34	PI Sta 8+95.42
$\Delta = 29^{\circ} 02' 22.4" (RT)$	$\Delta = 77^{\circ} 36' 35.0" (LT)$	$\Delta = 12^{\circ} 35' 58.8" (LT)$
$D = 3^{\circ} 34' 51.6"$	$D = 57^{\circ} 17' 44.8"$	$D = 5^{\circ} 59' 58.4"$
$L = 810.94'$	$L = 135.45'$	$L = 210.01'$
$R = 1,600.00'$	$R = 80.42'$	$R = 105.43'$
$SE = 04$	$R = 100.00'$	$R = 955.00'$
$RO = 200'$		

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C,  
UTILIZE FABRIC INSERT INLET PROTECTION  
DEVICES IN AREAS WHERE WATER MAY  
POND ON ROAD OPEN TO LIVE TRAFFIC.





NAD 83/NA 2011



120 x 20 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
8 ft. weir  
ID 19.3

-Y17- PC Sta. 7+89.99  
-Y17- POT Sta. 7+75.00  
THOMAS TRUELOVE  
594'  
CULTIVATION

MATCHLINE SHEET 19  
-L- STA. 464+00.00

MATCHLINE SHEET 21  
-L- STA. 477+50.00

-L-  
PI Sta 470+85.59  
 $\Delta = 34' 32" 56.7" (RT)$   
 $D = 3' 49" 11.0"$   
 $L = 904.49'$   
 $T = 466.47'$   
 $R = 1,500.00'$   
 $SE = 04$   
 $RO = 200'$

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

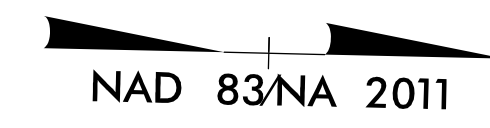
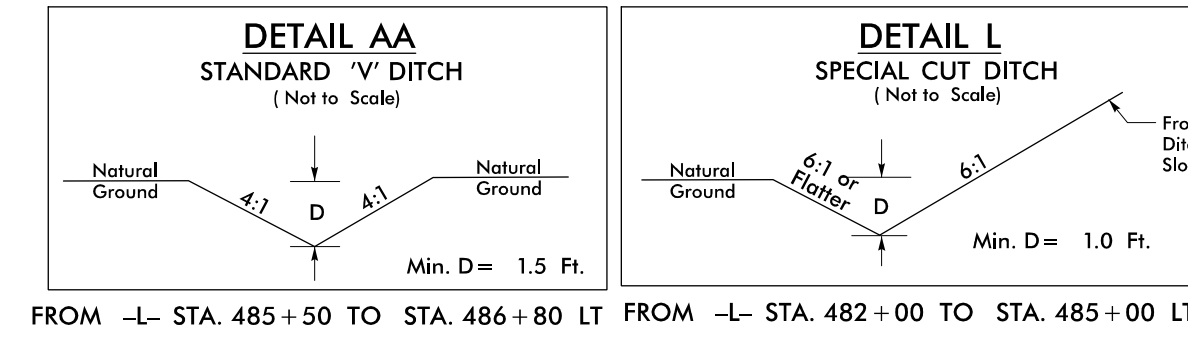
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C,  
UTILIZE FABRIC INSERT INLET PROTECTION  
DEVICES IN AREAS WHERE WATER MAY  
POND ON ROAD OPEN TO LIVE TRAFFIC.



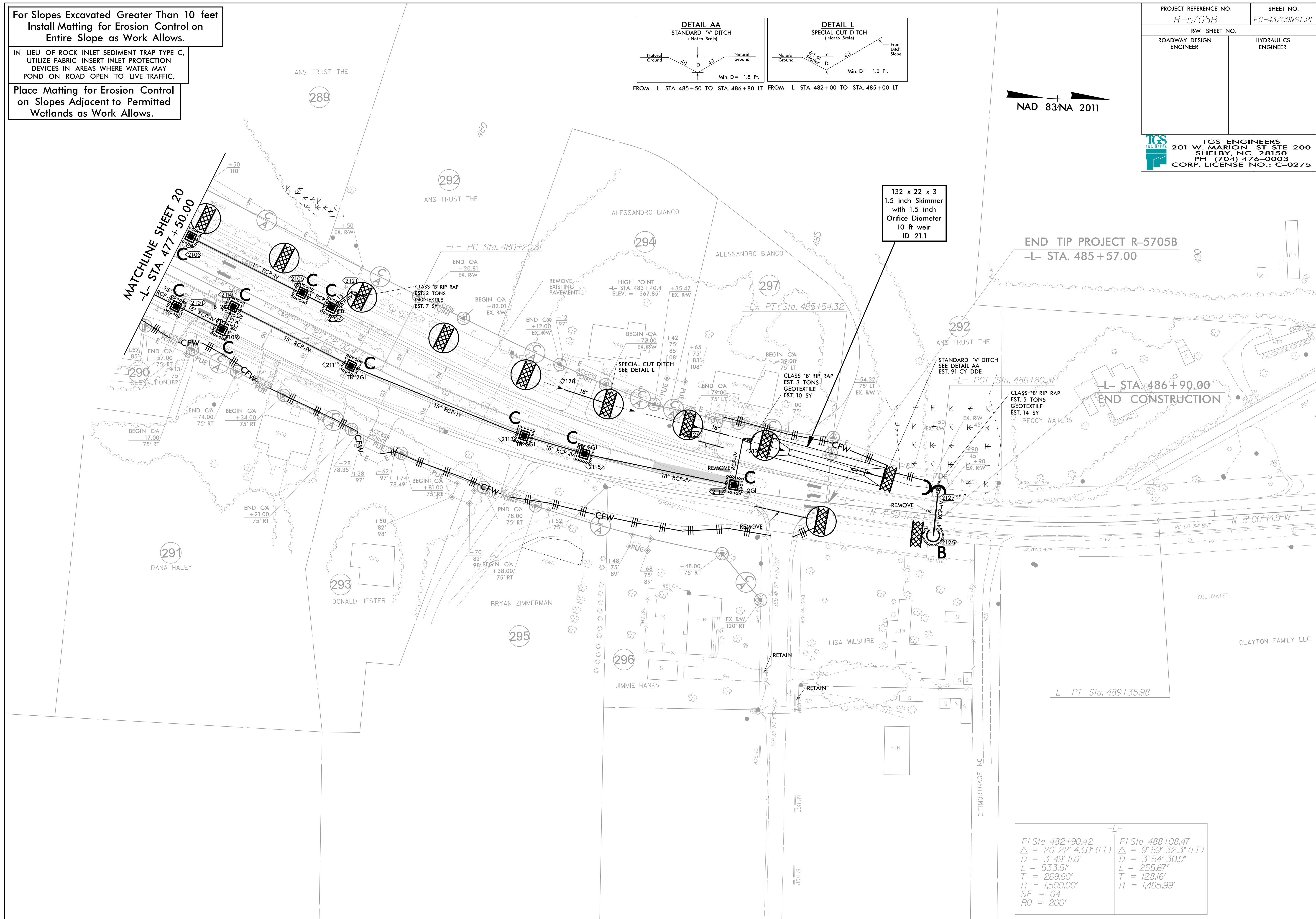
For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C,  
UTILIZE FABRIC INSERT INLET PROTECTION  
DEVICES IN AREAS WHERE WATER MAY  
POND ON ROAD OPEN TO LIVE TRAFFIC.

Place Matting for Erosion Control  
on Slopes Adjacent to Permitted  
Wetlands as Work Allows.

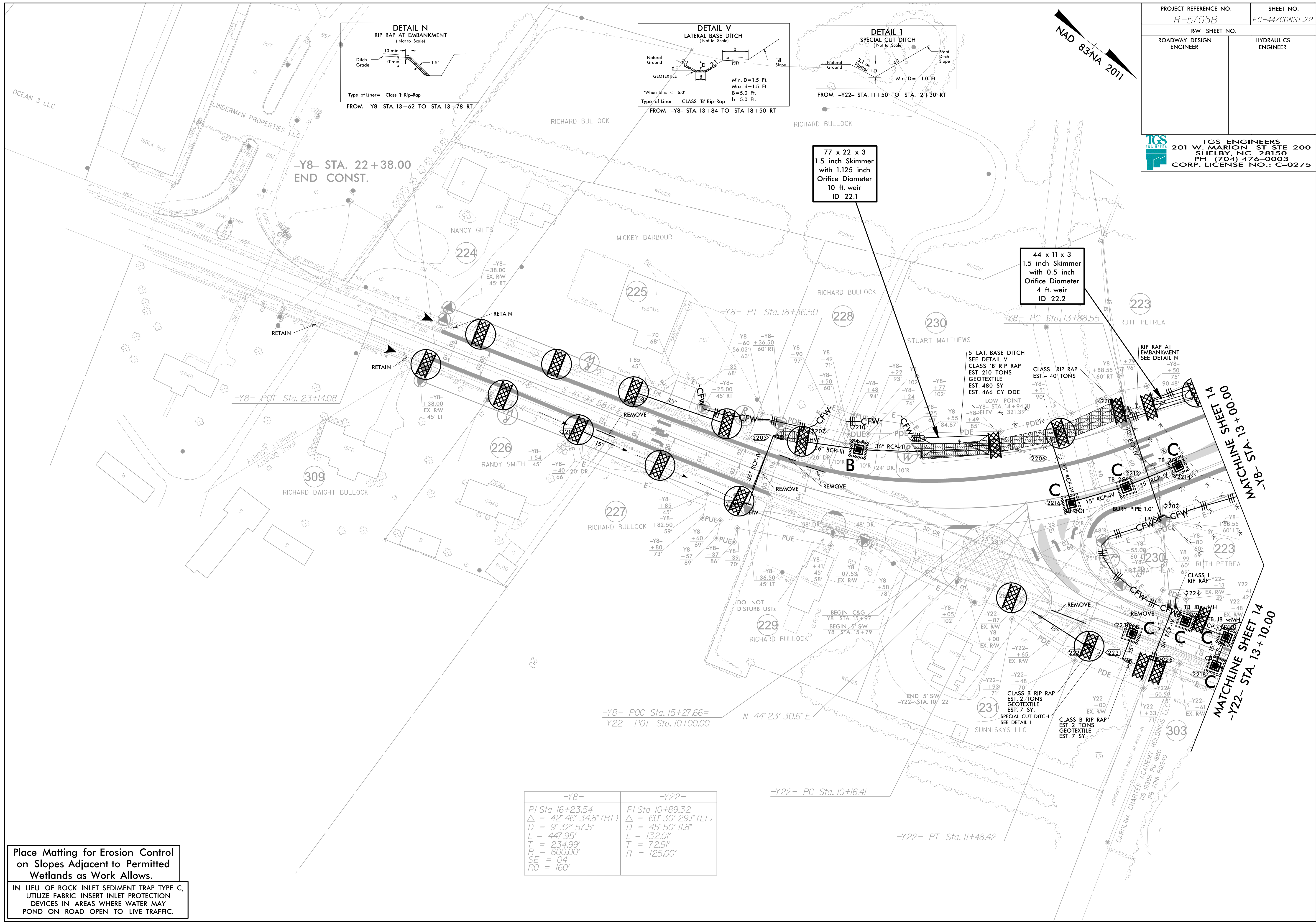
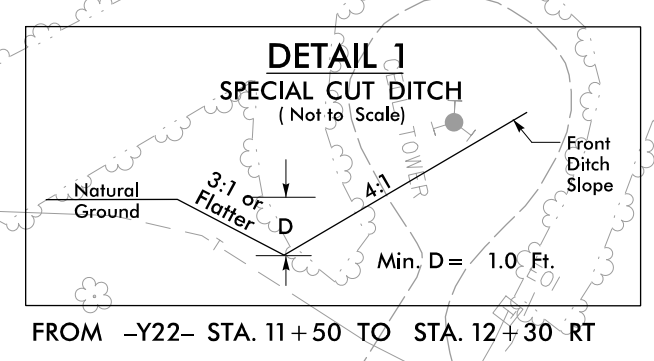
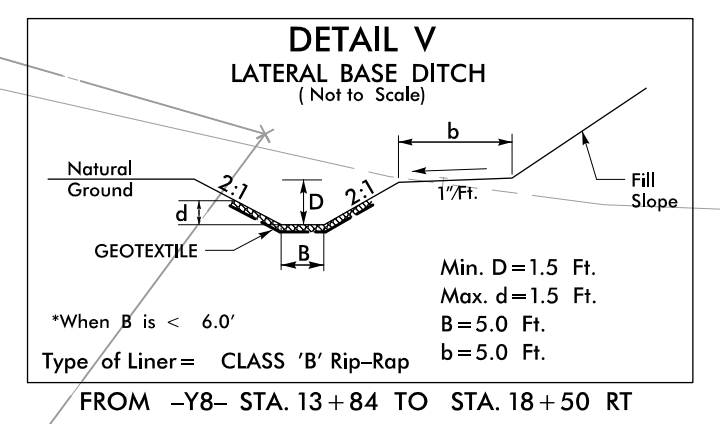
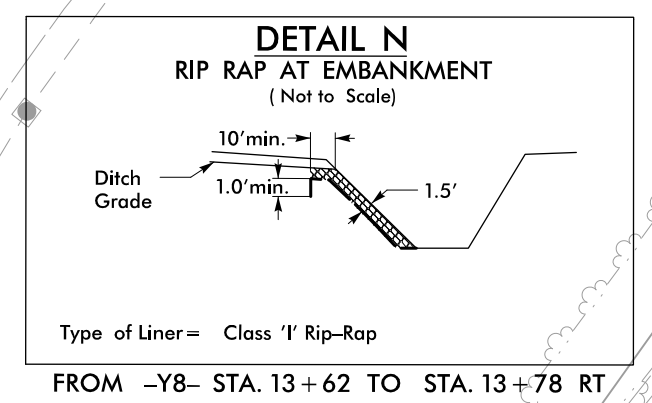
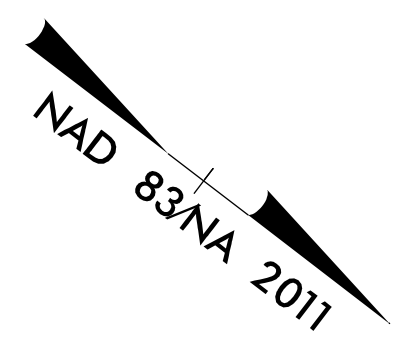


PROJECT REFERENCE NO. <i>R-5705B</i>	SHEET NO. <i>EC-43/CONST.21</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>TGS ENGINEERS</b> 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



-L- PI Sta 482+90.42 Δ = 20° 22' 43.0" (LT) D = 3' 49' 11.0" L = 533.51' T = 269.60' R = 1,500.00' SE = 04 RO = 200'	-L- PI Sta 488+08.47 Δ = 9° 59' 32.3" (LT) D = 3' 54' 30.0" L = 255.67' T = 128.16' R = 1,465.99'
--	---





-Y8-	-Y22-
PI Sta 16+23.54	PI Sta 10+89.32
Δ = 42' 46" 34.8" (RT)	Δ = 60' 30" 29.1" (LT)
D = 9' 32" 57.5"	D = 45' 50" 11.8"
L = 447.95'	L = 132.01'
T = 234.99'	T = 72.91'
R = 600.00'	R = 125.00'
SE = 04	
RO = 160'	

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

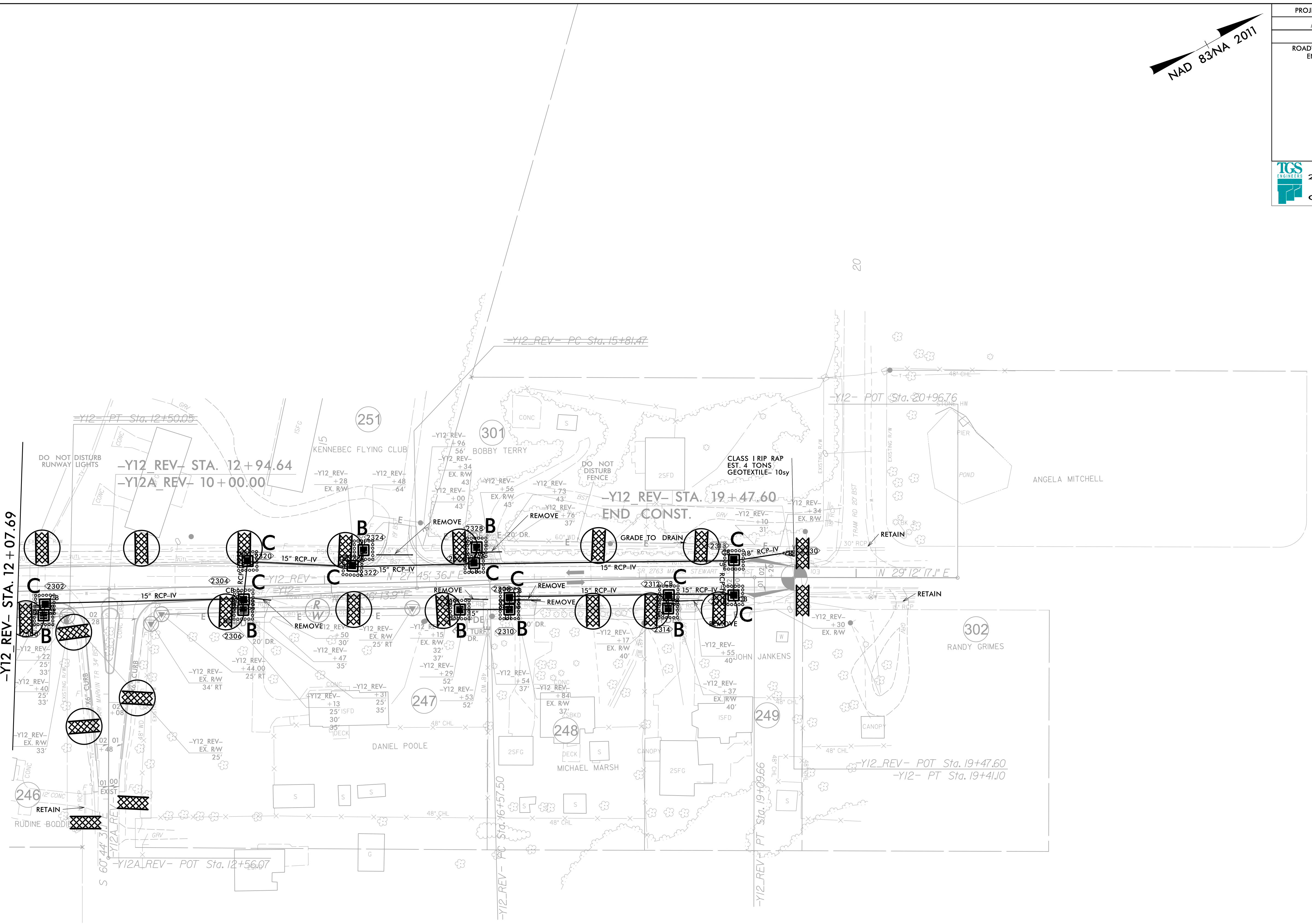


NAD 83/NA 2011

PROJECT REFERENCE NO. <i>R-5705B</i>	SHEET NO. <i>EC-45/CONST.23</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS  
201 W. MARION ST-STE 200  
SHELBY, NC 28150  
PH (704) 476-0003  
CORP. LICENSE NO.: C-0275

MATCHLINE SHEET 16  
-Y12 REV- STA. 12+07.69



-Y12-	
<del>PI Sta 11+80.56</del>	<del>PI Sta 17+61.34</del>
<del><math>\Delta = 14' 33'' 28.7''</math> (LT)</del>	<del><math>\Delta = 3' 26'' 03.2''</math> (RT)</del>
<del><math>D = 10' 25'' 02.7''</math></del>	<del><math>D = 0' 57'' 11.7''</math></del>
<del><math>L = 139.75'</math></del>	<del><math>L = 359.63'</math></del>
<del><math>T = 70.25'</math></del>	<del><math>T = 179.87'</math></del>
<del><math>R = 550.00'</math></del>	<del><math>R = 6,000.00'</math></del>

-Y12_REV-
PI Sta 17+83.59
$\Delta = 1' 26'' 41.0''$ (RT)
$D = 0' 34'' 22.6''$
$L = 252.15'$
$T = 126.08'$
$R = 10,000.00'$