

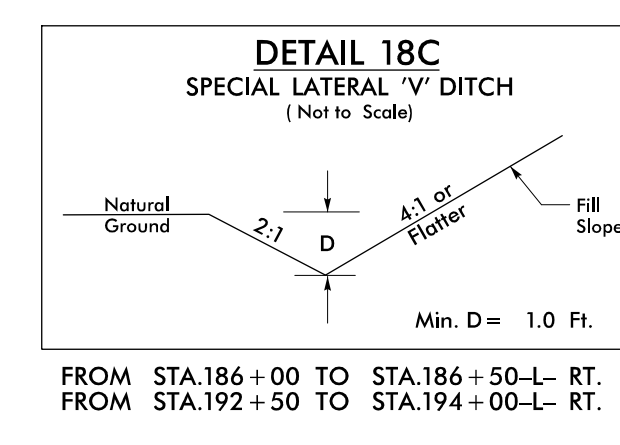
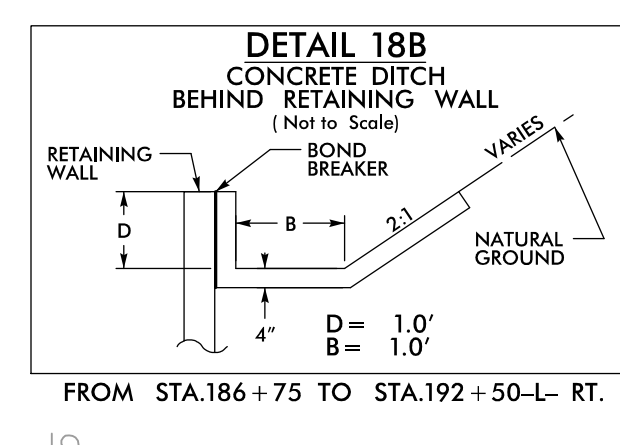
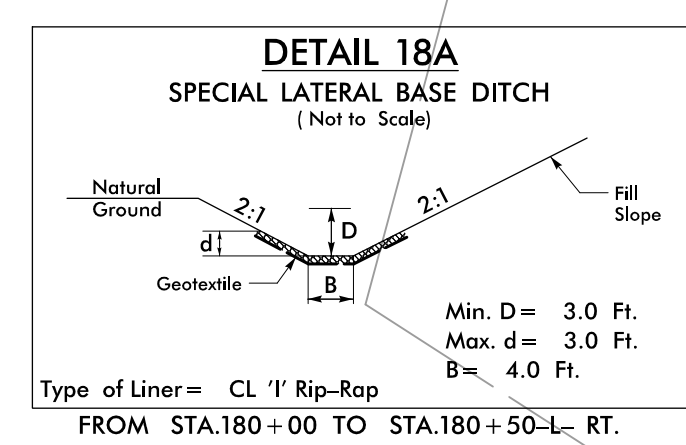
**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

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

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

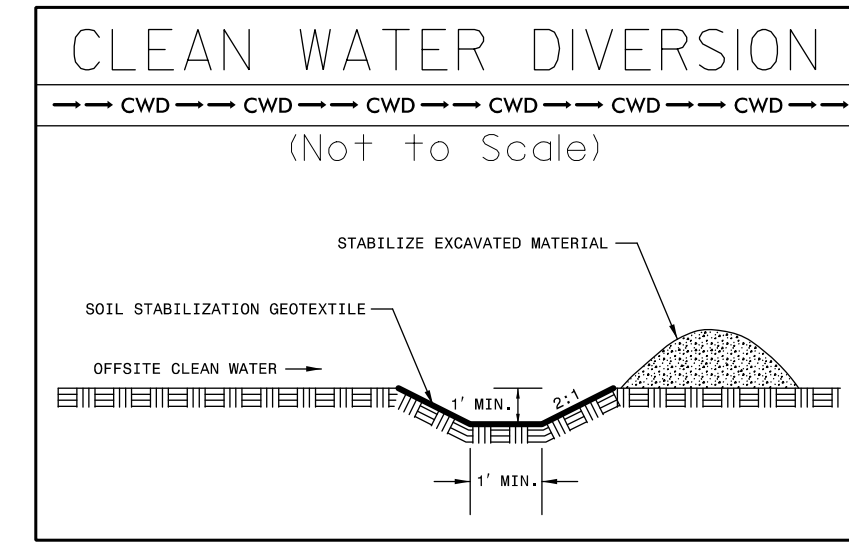
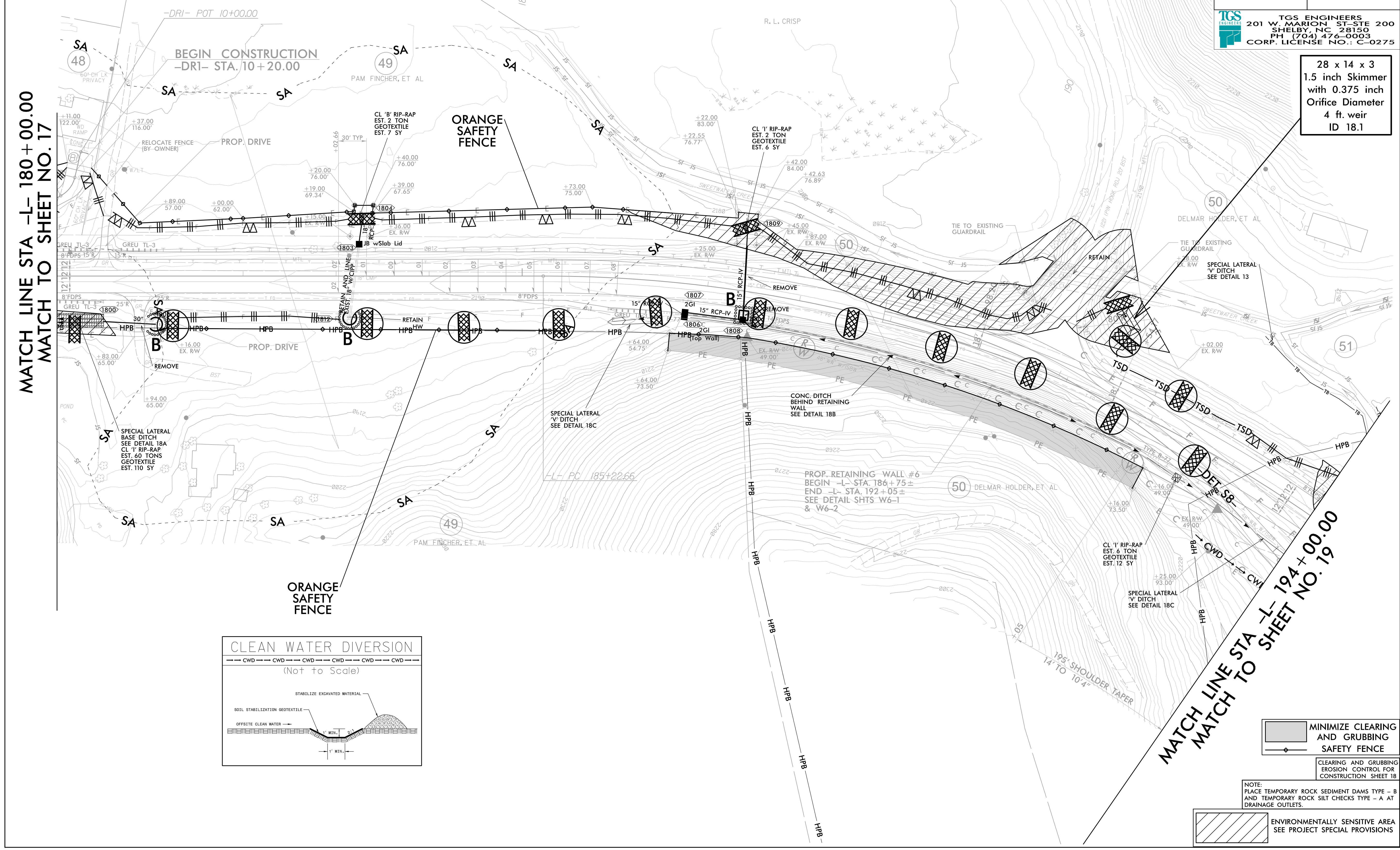
PROJECT REFERENCE NO. A-0009CA		SHEET NO. EC-18/CONST.18	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			

-DRI- CURVE DATA
 PI Sta 10+41.97
 $\Delta = 48^{\circ} 49' 47.4" (RT)$
 $D = 190' 59" 09.4"$
 $L = 25.57'$
 $T = 13.62'$
 $R = 30.00'$
 (C) -DRI- PC 10+28.35
 (C) -DRI- PT 10+53.92



MATCH LINE STA -L- 180+00.00
 MATCH TO SHEET NO.17

MATCH LINE STA -L- 194+00.00
 MATCH TO SHEET NO.19




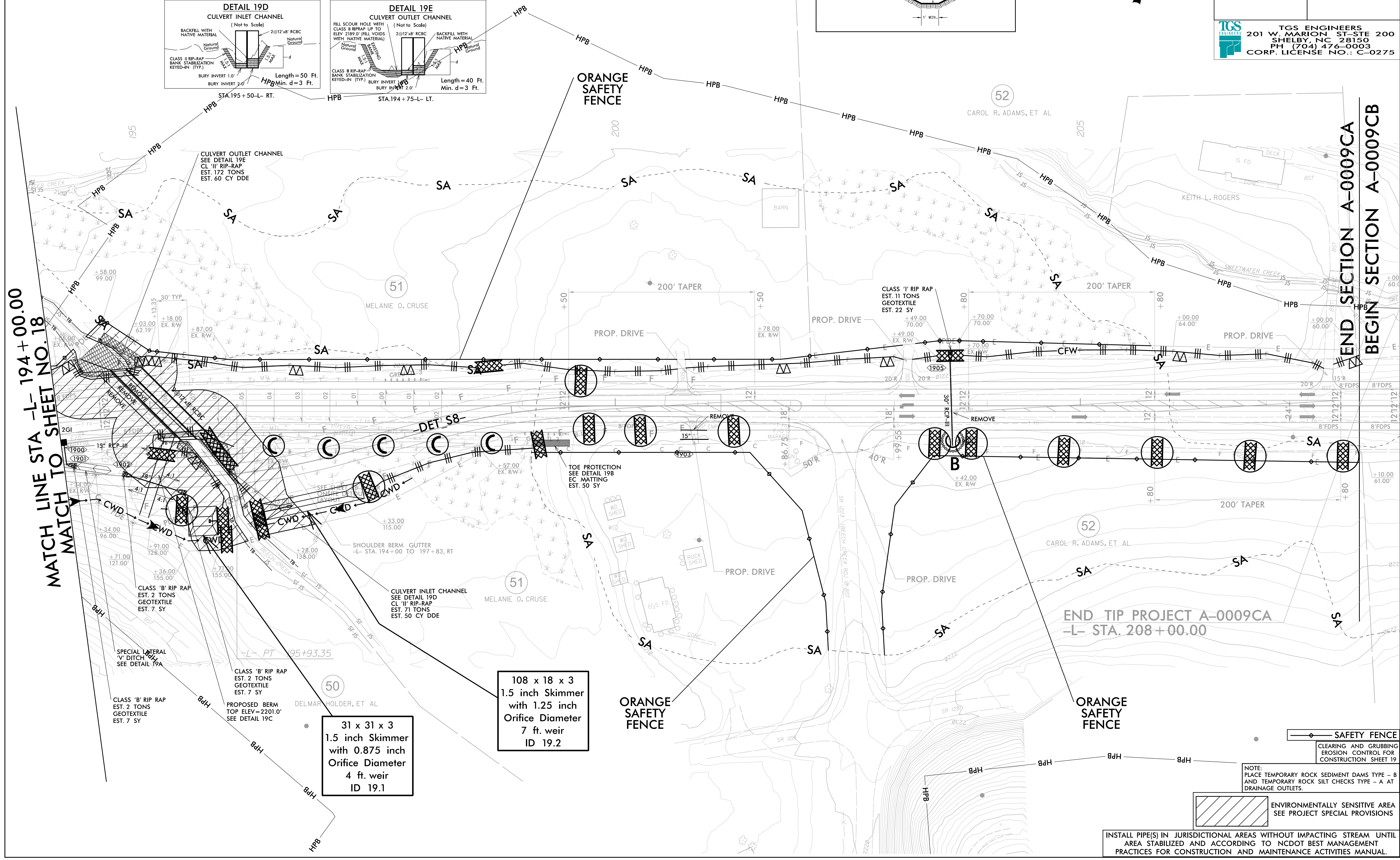
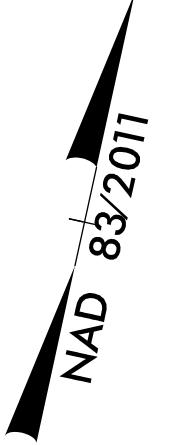
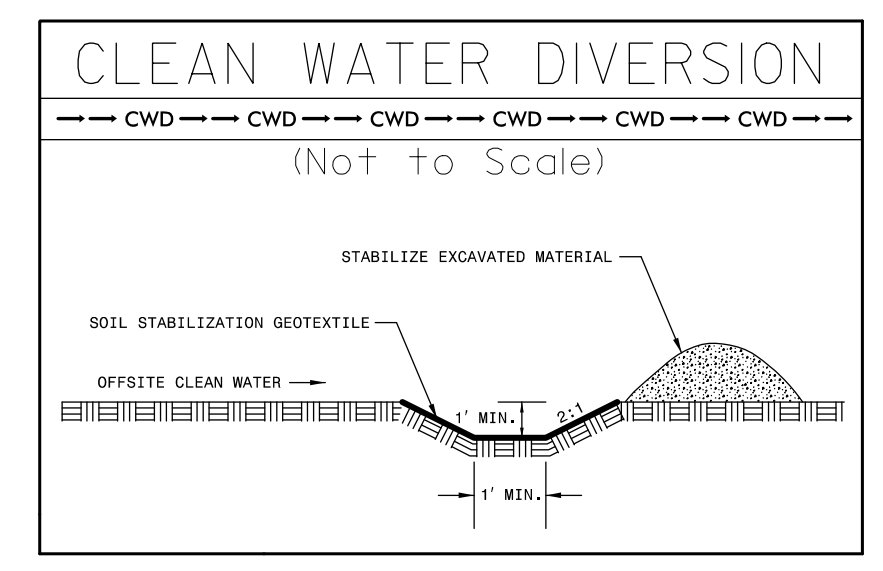
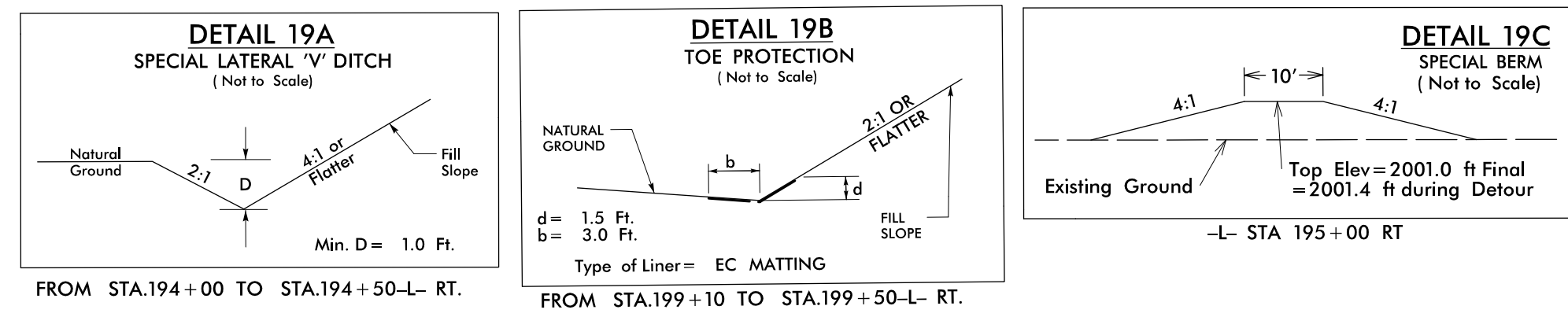
28 x 14 x 3
 1.5 inch Skimmer
 with 0.375 inch
 Orifice Diameter
 4 ft. weir
 ID 18.1

MINIMIZE CLEARING AND GRUBBING
 SAFETY FENCE
 CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

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

ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-19/CONST.19
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	



MATCH LINE STA -L- 194+00.00
MATCH TO SHEET NO. 18

END SECTION A-0009CA
BEGIN SECTION A-0009CB

END TIP PROJECT A-0009CA
-L- STA. 208+00.00

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

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

31 x 31 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 19.1

108 x 18 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 19.2

CULVERT INLET CHANNEL
SEE DETAIL 19D
CL 'II' RIP-RAP
EST. 71 TONS
EST. 50 CY DDE

CLASS 'I' RIP RAP
EST. 11 TONS
GEOTEXTILE
EST. 22 SY

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

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

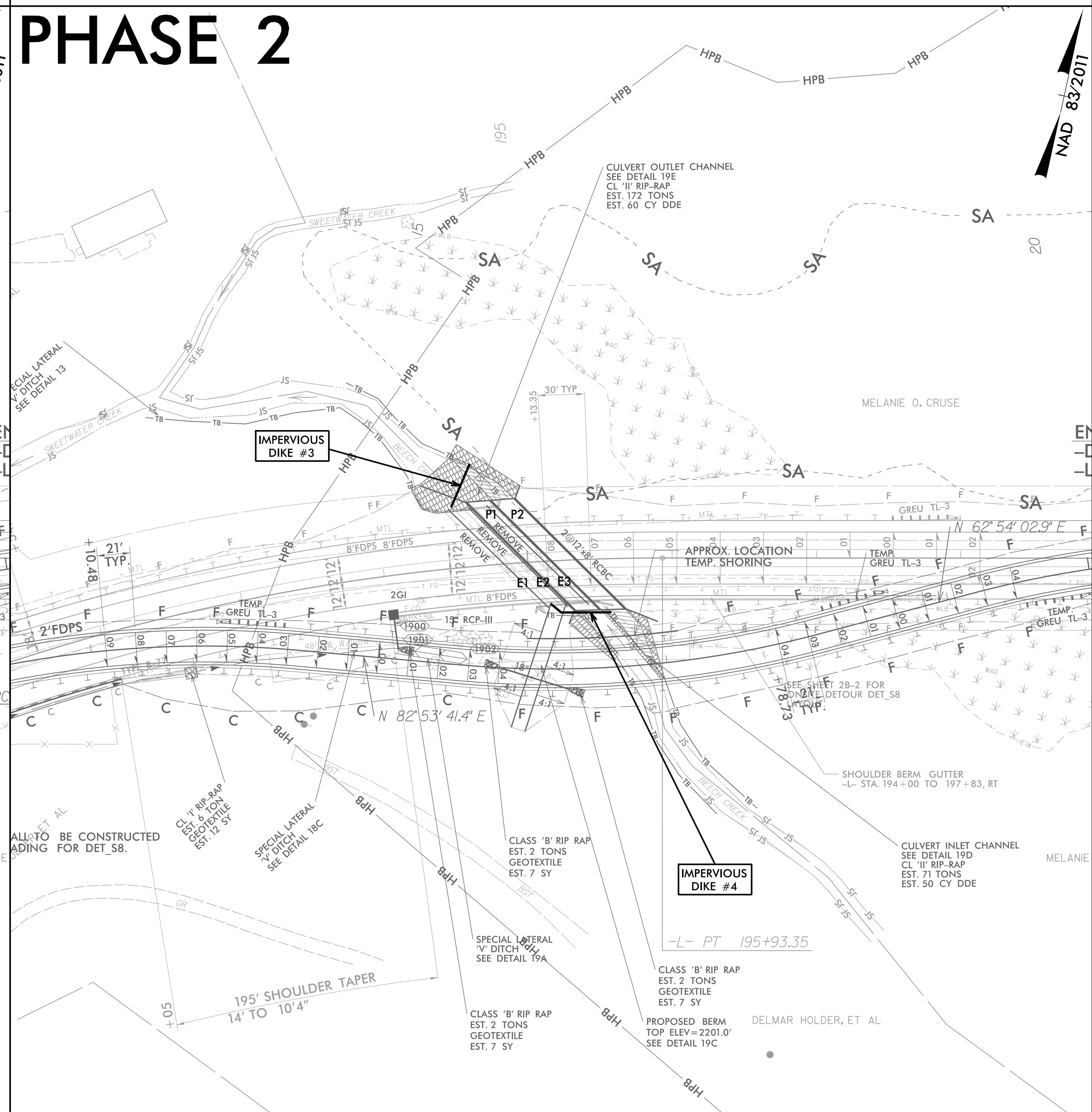
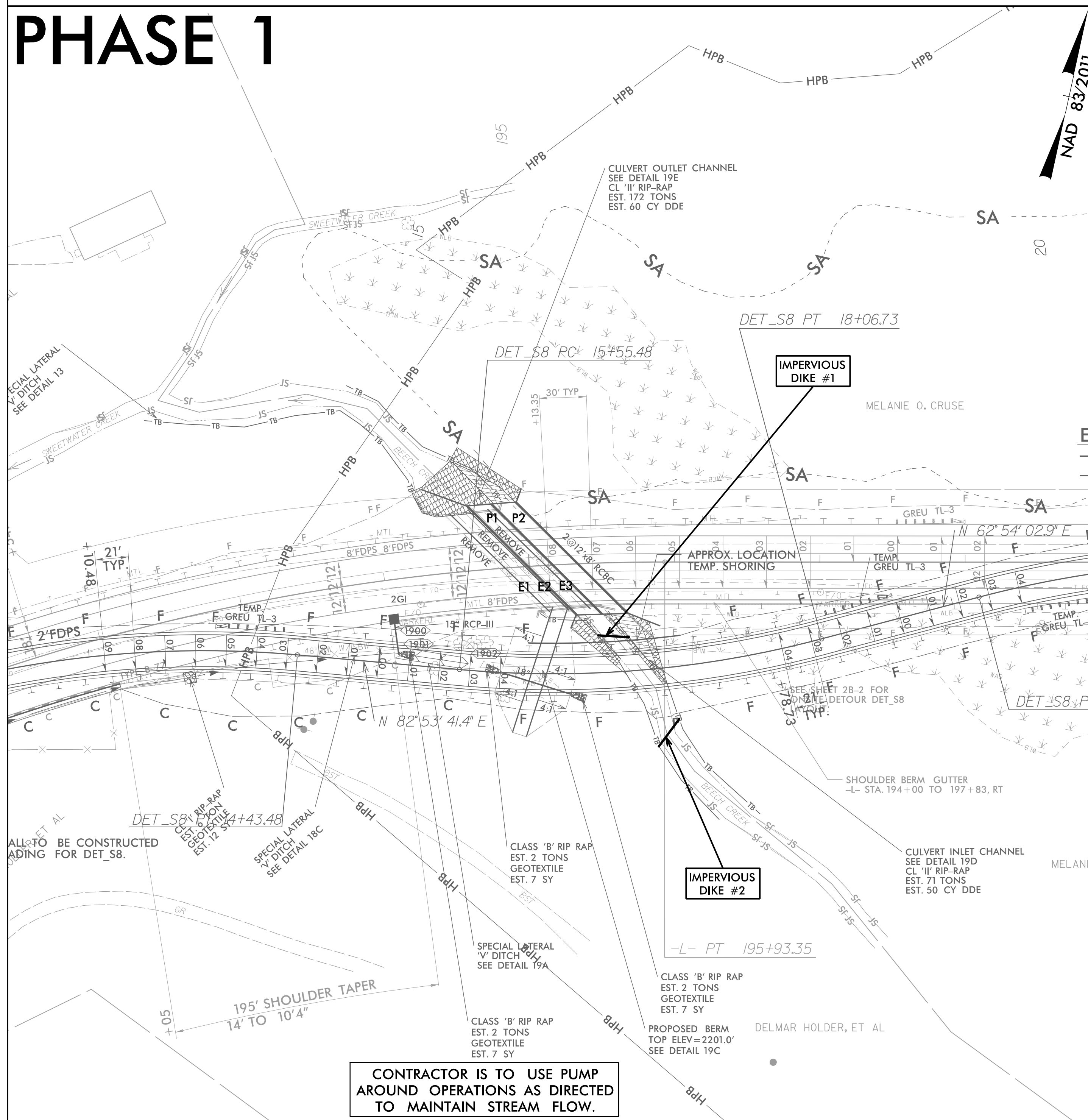
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL
AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

PROJECT REFERENCE NO.	SHEET NO.
A-0009CA	EC-19A/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 195+16 -L-

1. INSTALL IMPERVIOUS DIKES #1 & #2 AND BEGIN PUMP AROUND.
2. DEWATER WORK SITE AS NEEDED INTO SPECIAL STILLING BASIN(S).
3. INSTALL TEMPORARY 2@103"X71" CS PIPE-ARCH.
4. REMOVE IMPERVIOUS DIKES #1 & #2 AND STOP PUMP AROUND, RESTORING FLOW THROUGH TEMPORARY 2@103"X71" CS PIPE-ARCH.
5. COMPLETE DETOUR ROADWAY AND DIVERT TRAFFIC. SEE EC-22/CONST 2B-3 FOR DETOUR FINAL GRADE EROSION CONTROL.

6. INSTALL IMPERVIOUS DIKES #3 & #4 AND DIVERT FLOW THROUGH EXISTING 72" CMP E1.
7. REMOVE EXISTING 72" CMP E2 & E3 AND CONSTRUCT 12'X8' RCBC P1 & P2 WITH P2 WINGWALLS.

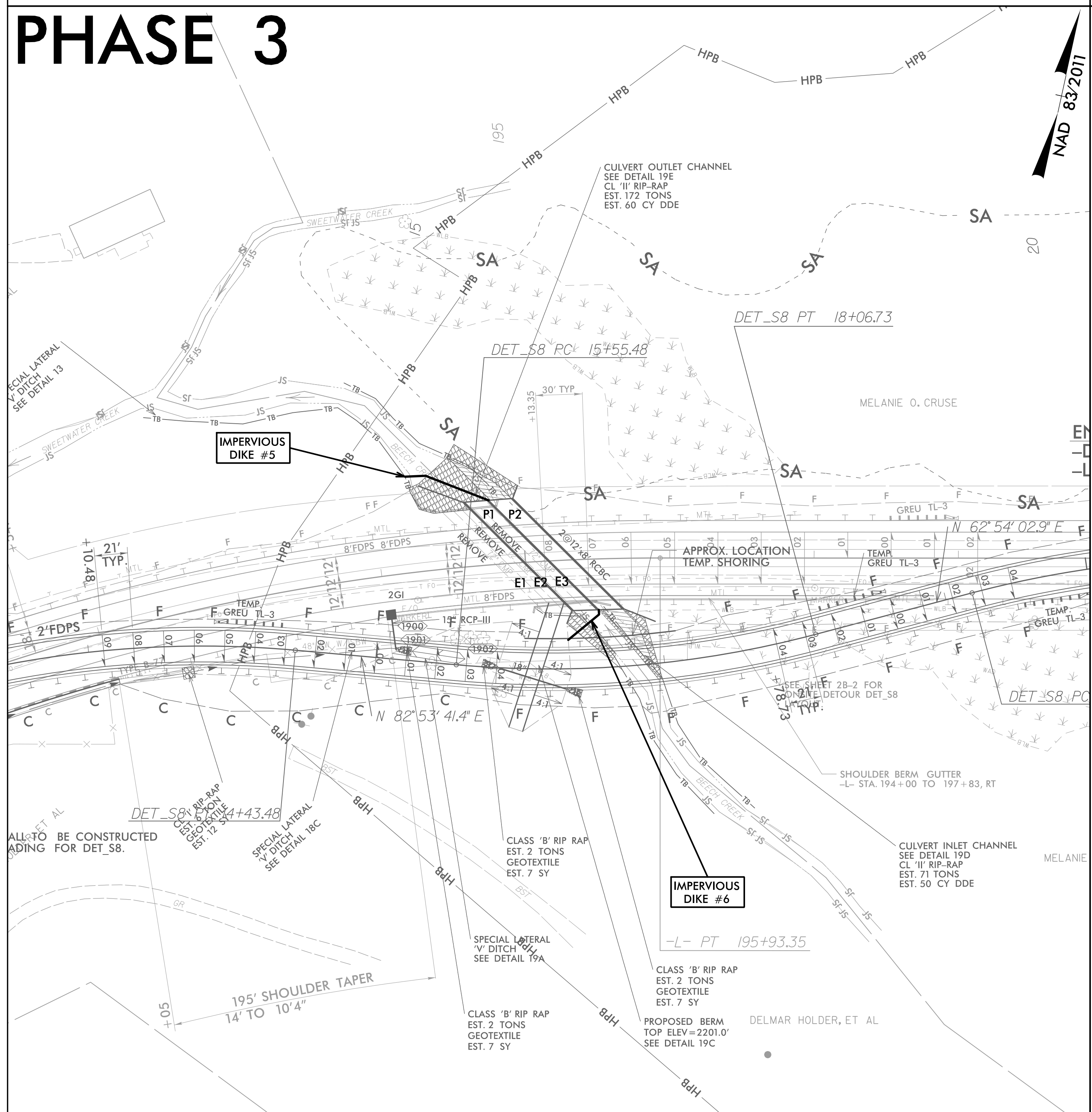


PROJECT REFERENCE NO.	SHEET NO.
A-0009CA	EC-19B/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 195+16 -L-

8. REMOVE IMPERVIOUS DIKES #3 & #4.
9. INSTALL IMPERVIOUS DIKES #5 & #6, DIVERTING FLOW INTO NEW 7'X8' RCBC P2.
10. REMOVE EXISTING 72" CMP E1 AND CONSTRUCT P1 WINGWALLS.
11. COMPLETE HEADWALLS AND WINGWALLS ACCORDING TO DRAINAGE AND STRUCTURE PLANS.
12. REMOVE IMPERVIOUS DIKES #5 & #6 AND RESTORE STREAM.
13. COMPLETE ROADWAY AND SHIFT TRAFFIC FROM DETOUR.
14. REMOVE DETOUR ROADWAY AND TEMPORARY 2@103"X71" CS PIPE-ARCH.
15. COMPLETE FINAL GRADING OF PROPOSED BERM.


PHASE 3

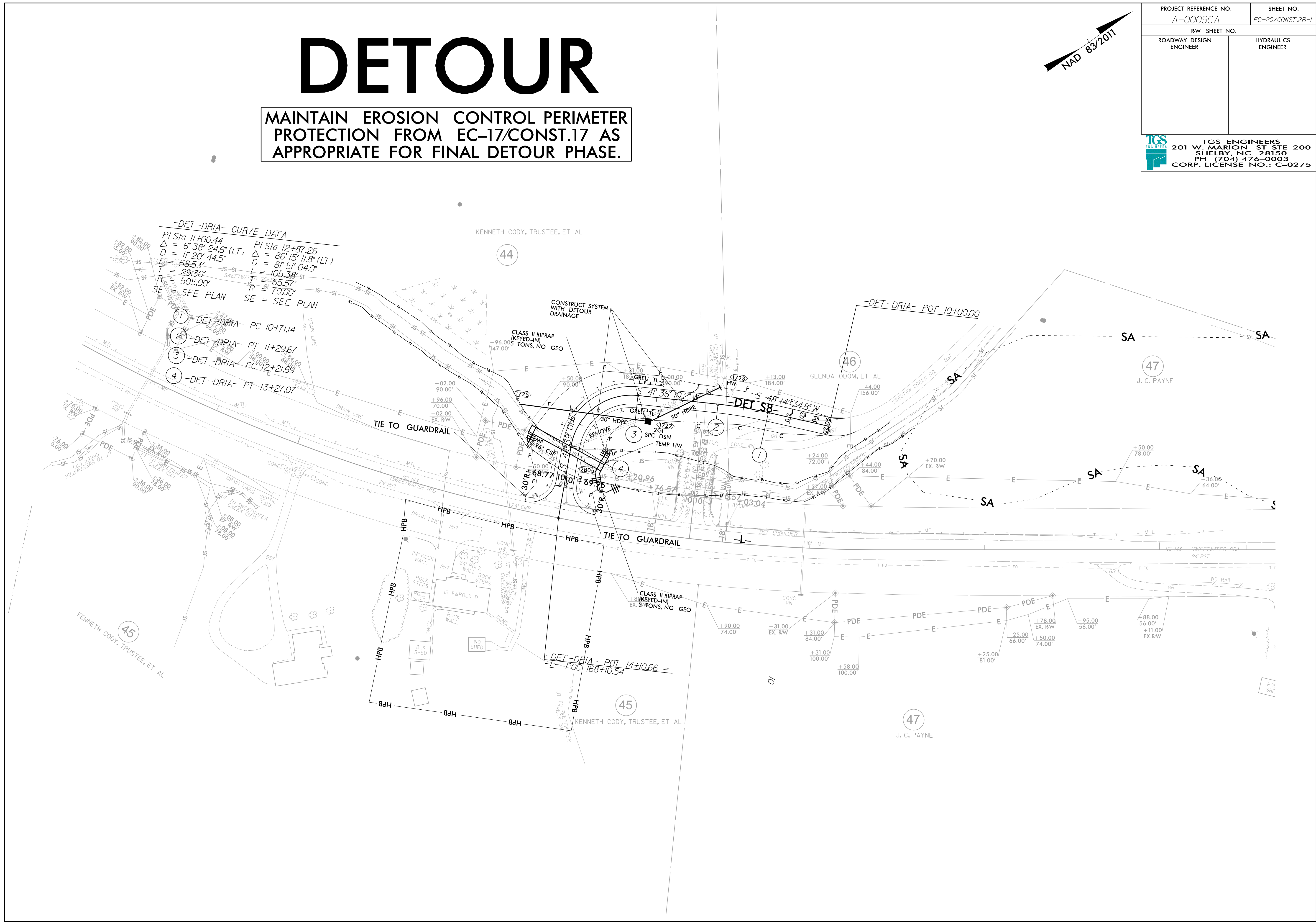


DETOUR

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




PROJECT REFERENCE NO. A-0009CA		SHEET NO. EC-20/CONST.2B-1	
RW SHEET NO.		HYDRAULICS ENGINEER	
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			



DETOUR

MAINTAIN EROSION CONTROL PERIMETER PROTECTION FROM EC-12/CONST.12 & EC-13/CONST.13 AS APPROPRIATE FOR FINAL DETOUR PHASE.

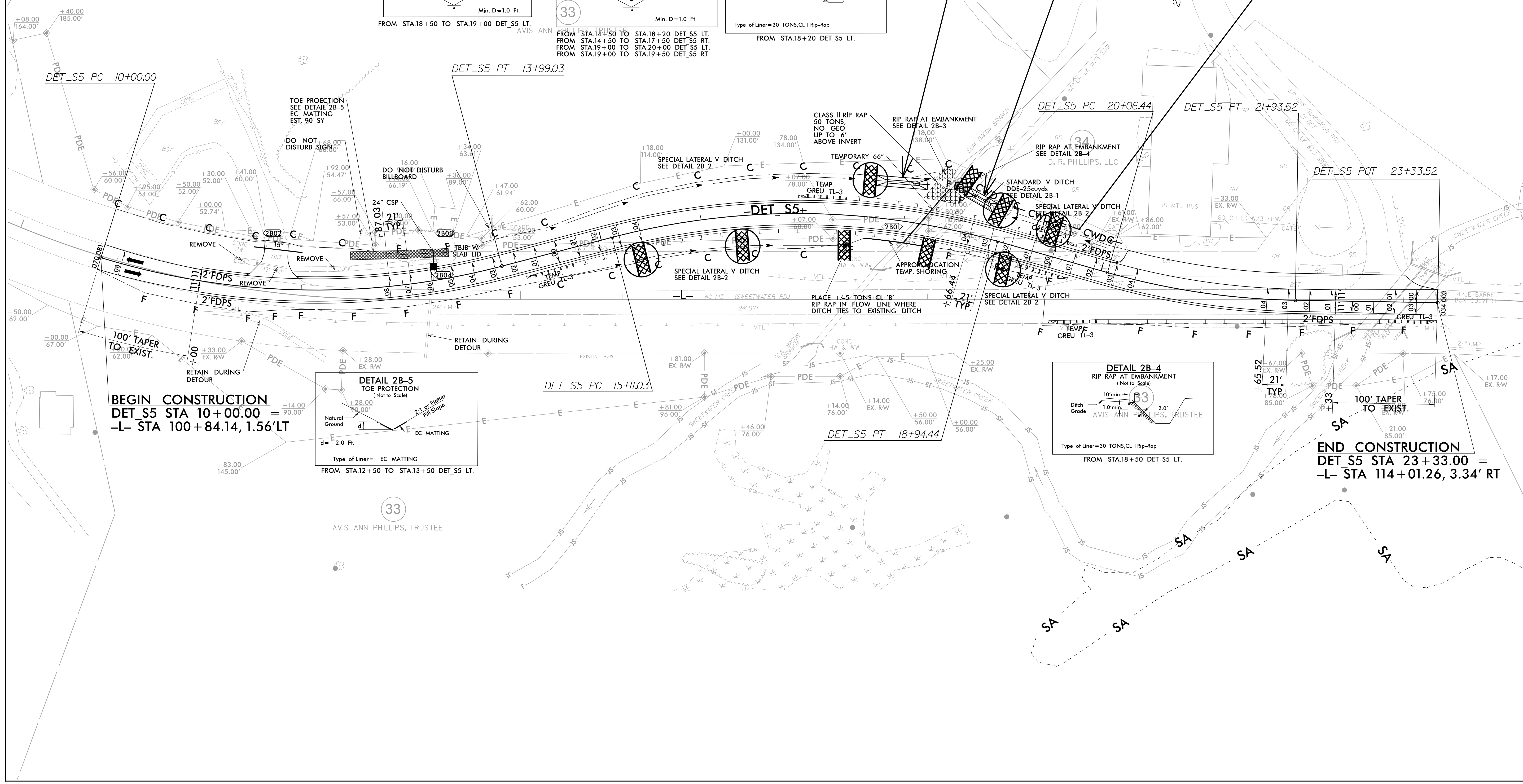
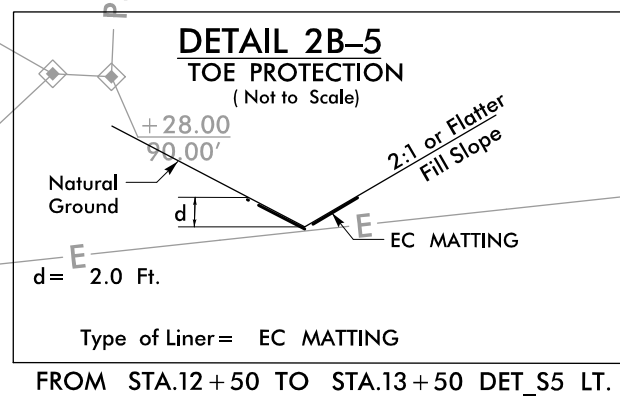
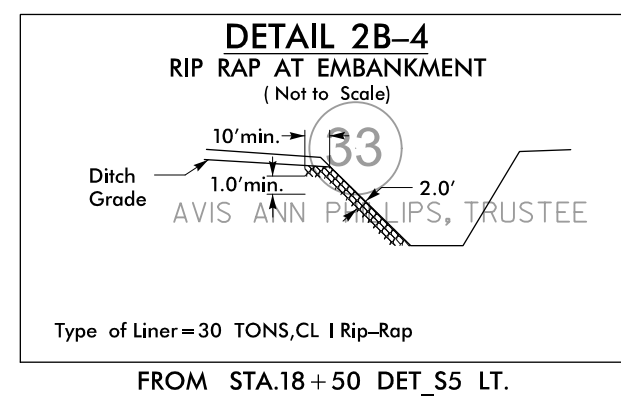
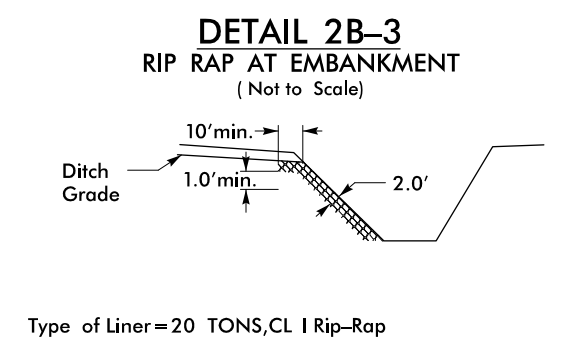
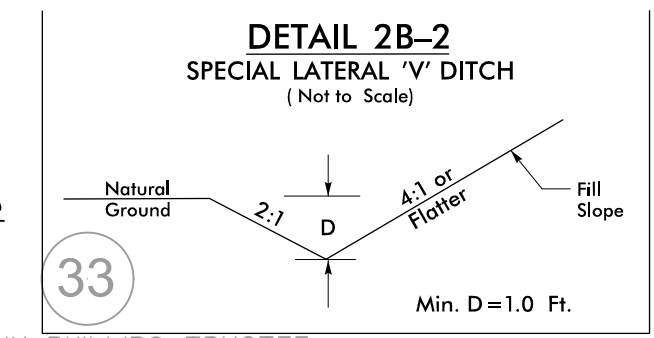
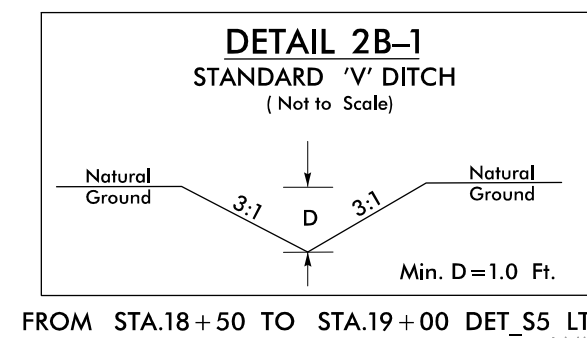


PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-21/CONST.2B-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

50 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 12.3D

30 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 12.5D

MAINTAIN CWD DURING DETOUR



BEGIN CONSTRUCTION
DET S5 STA 10+00.00 =
-L- STA 100+84.14, 1.56' LT


END CONSTRUCTION
DET S5 STA 23+33.00 =
-L- STA 114+01.26, 3.34' RT

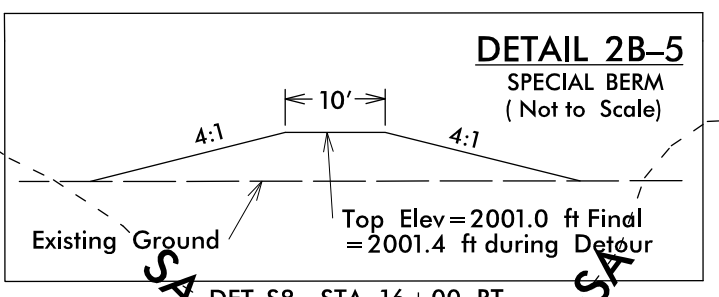
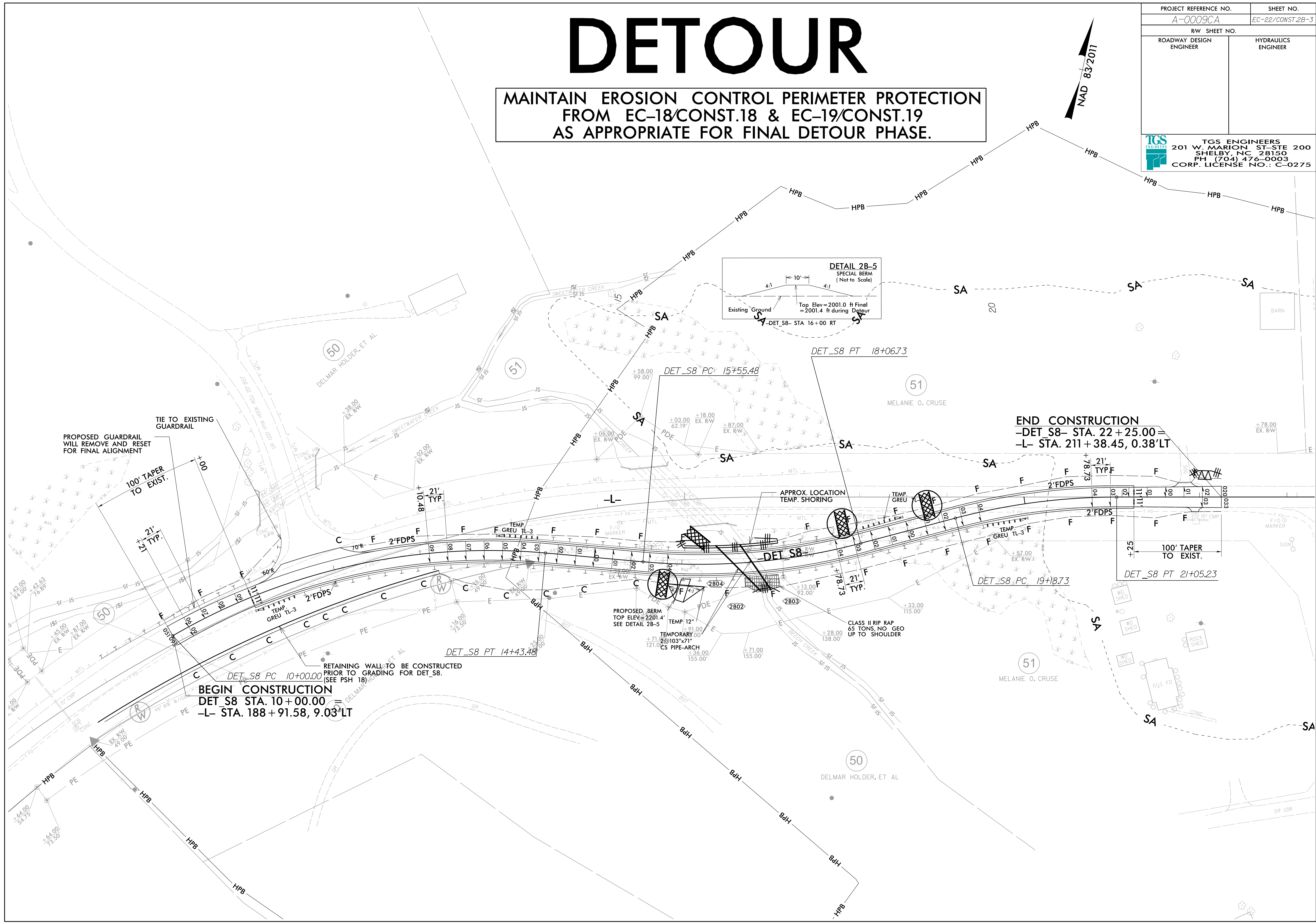
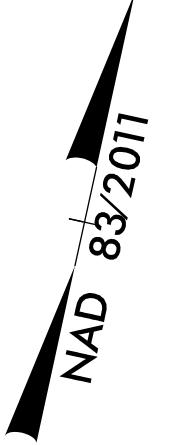
33

AVIS ANN PHILLIPS, TRUSTEE

DETOUR

MAINTAIN EROSION CONTROL PERIMETER PROTECTION FROM EC-18/CONST.18 & EC-19/CONST.19 AS APPROPRIATE FOR FINAL DETOUR PHASE.

PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-22/CONST.2B-3
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	



END CONSTRUCTION
 -DET S8- STA. 22 + 25.00 =
 -L- STA. 211 + 38.45, 0.38'LT

BEGIN CONSTRUCTION
 DET S8 STA. 10 + 00.00 =
 -L- STA. 188 + 91.58, 9.03'LT

RETAINING WALL TO BE CONSTRUCTED
 PRIOR TO GRADING FOR DET_S8.
 (SEE PSH 18)

CLASS II RIP RAP
 65 TONS, NO GEO
 UP TO SHOULDER

PROPOSED BERM
 TOP ELEV.= 2201.4'
 SEE DETAIL 2B-5

PROPOSED GUARDRAIL
 WILL REMOVE AND RESET
 FOR FINAL ALIGNMENT

TIE TO EXISTING
 GUARDRAIL

100' TAPER
 TO EXIST.

100' TAPER
 TO EXIST.

50
 DELMAR HOLDER, ET AL

51

51
 MELANIE O. CRUSE


51
 MELANIE O. CRUSE

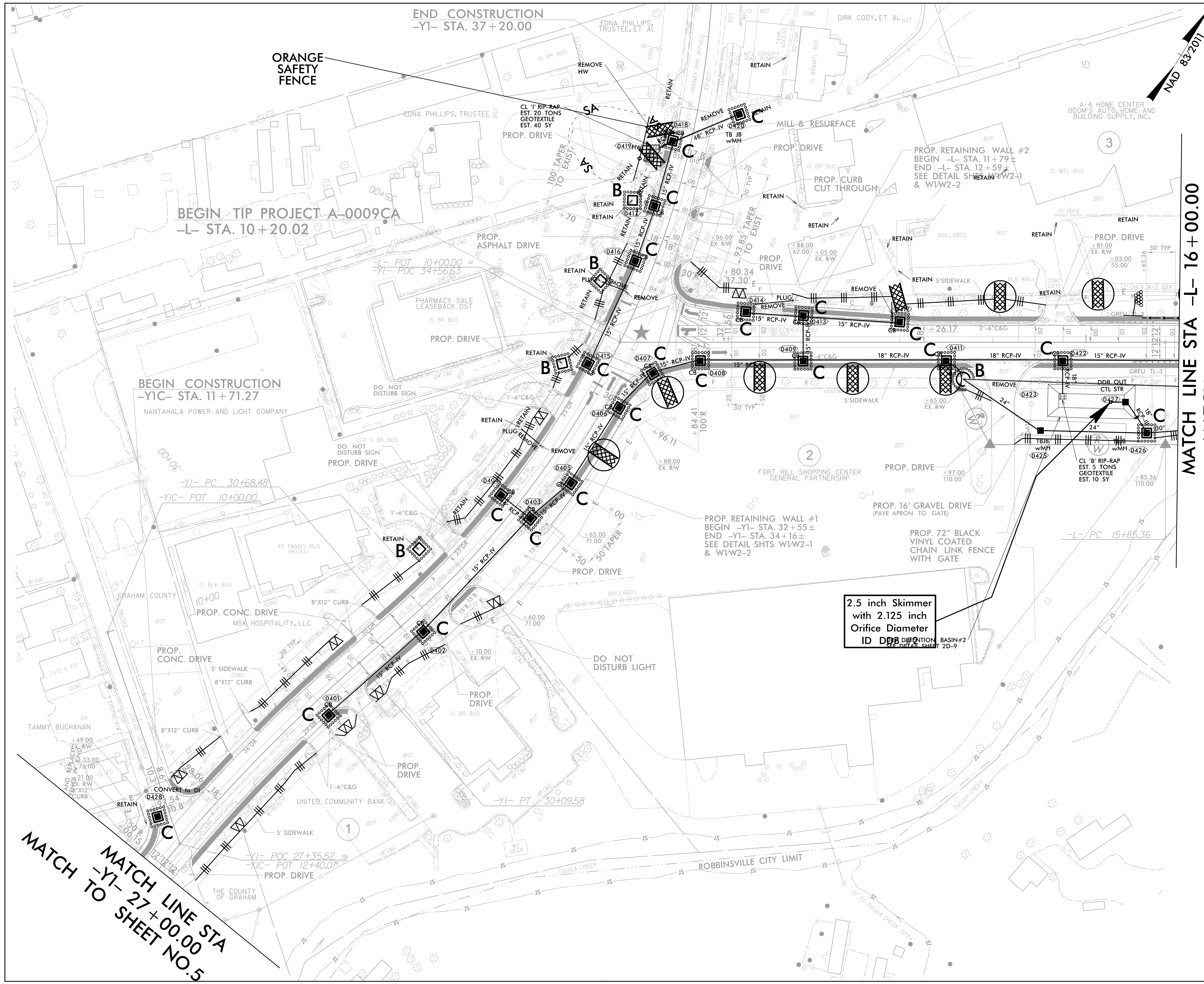
50
 DELMAR HOLDER, ET AL

BARN

SIGN

SR 1281

PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-23/CONST.4
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	




MATCH LINE STA -YI- 27+00.00 MATCH TO SHEET NO.5

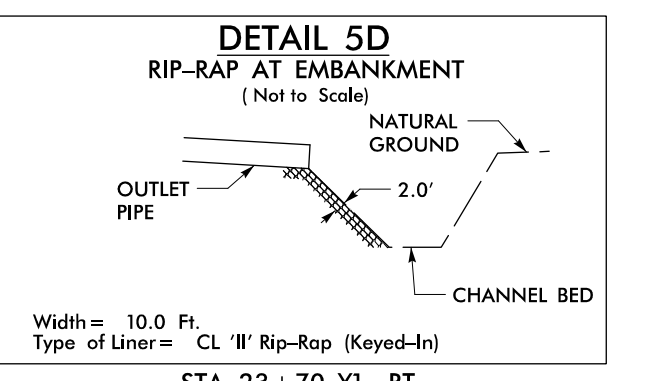
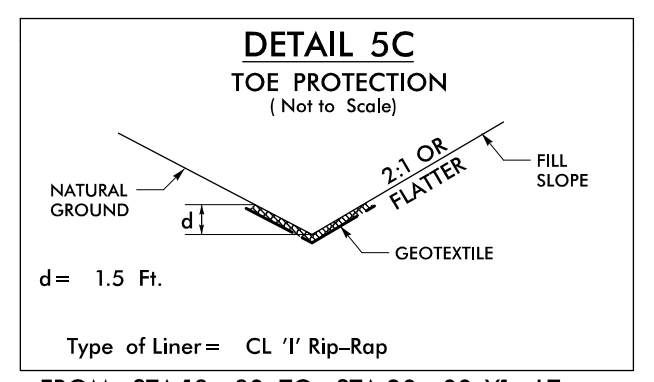
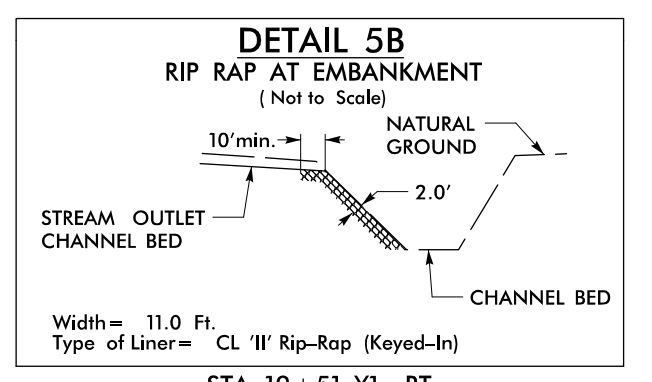
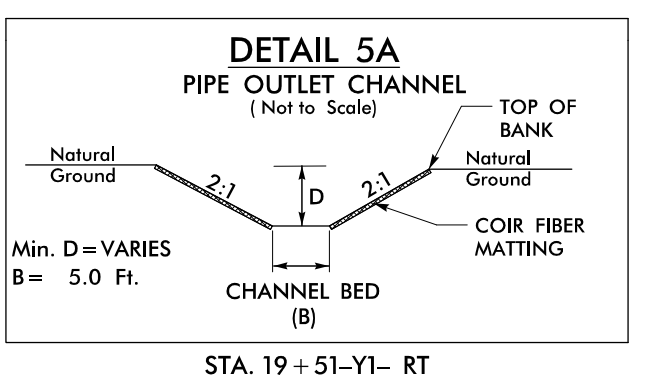
2.5 inch Skimmer with 2.125 inch Orifice Diameter ID DDB DETENTION BASIN#2 SEE DETAIL SHEET 2D-9

 SAFETY FENCE

UTILIZE DRY DETENTION BASIN AS SKIMMER BASIN DURING CONSTRUCTION.

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.

PROJECT REFERENCE NO. A-0009CA		SHEET NO. EC-24/CONST.5	
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			

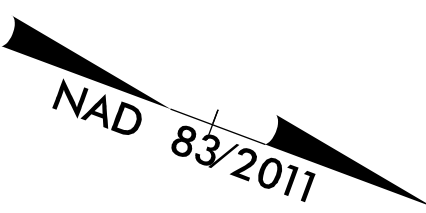


-Y1A- CURVE DATA
 PI Sta 12+48.39
 $\Delta = 27^\circ 40' 40.3" (LT)$
 $D = 10' 31' 56.3"$
 $L = 262.79'$
 $T = 134.01'$
 $R = 544.00'$
 ③ -Y1A- PC 11+4.38

-Y1- CURVE DATA
 PI Sta 24+35.36
 $\Delta = 38^\circ 00' 53.8" (RT)$
 $D = 3' 10' 59.2"$
 $L = 1,194.27'$
 $T = 620.05'$
 $R = 1,800.00'$
 $SE = 0.03'$
 $DS = 45 MPH$

① -Y1B- PC 13+29.06
 ② -Y1B- PT 13+99.35

8 EDDIE R. BROOMS, JR.
 8A EARL SHULER HEIRS



BEGIN CONSTRUCTION
 -Y1B- STA. 13+13.92

END CONSTRUCTION
 -Y1A- STA. 10+62.95


MATCH LINE STA
 -Y1- 27+00.00
 MATCH TO SHEET NO. 4

1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 ID DDB #1

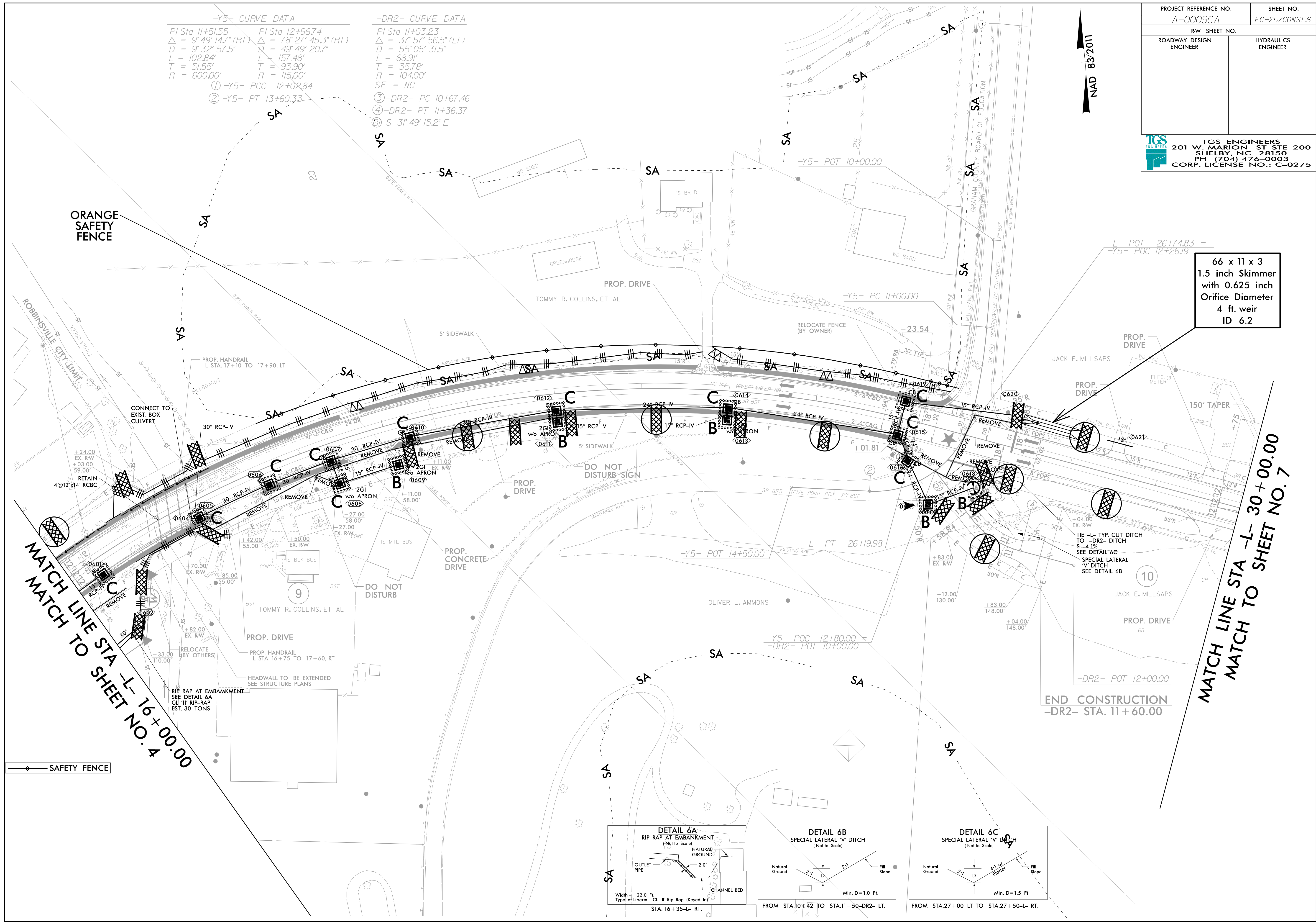
UTILIZE DRY DETENTION BASIN AS
 SKIMMER BASIN DURING CONSTRUCTION.
 IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C,
 UTILIZE FABRIC INSERT INLET PROTECTION
 DEVICES IN AREAS WHERE WATER MAY
 POND ON ROAD OPEN TO LIVE TRAFFIC.

SAFETY FENCE

-Y5- CURVE DATA		-DR2- CURVE DATA	
PI Sta 11+51.55	PI Sta 12+96.74	PI Sta 11+03.23	
$\Delta = 9^{\circ} 49' 14.7''$ (RT)	$\Delta = 78^{\circ} 27' 45.3''$ (RT)	$\Delta = 37^{\circ} 57' 56.5''$ (LT)	
$D = 9^{\circ} 32' 57.5''$	$D = 49^{\circ} 49' 20.7''$	$D = 55^{\circ} 05' 31.5''$	
$L = 102.84'$	$L = 157.48'$	$L = 68.91'$	
$T = 51.55'$	$T = 93.90'$	$T = 35.78'$	
$R = 600.00'$	$R = 115.00'$	$R = 104.00'$	
① -Y5- PCC 12+02.84		SE = NC	
② -Y5- PT 13+60.33		③ -DR2- PC 10+67.46	
		④ -DR2- PT 11+36.37	
		⑤ S 31° 49' 15.2" E	

PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-25/CONST.6
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	

NAD 83/2011



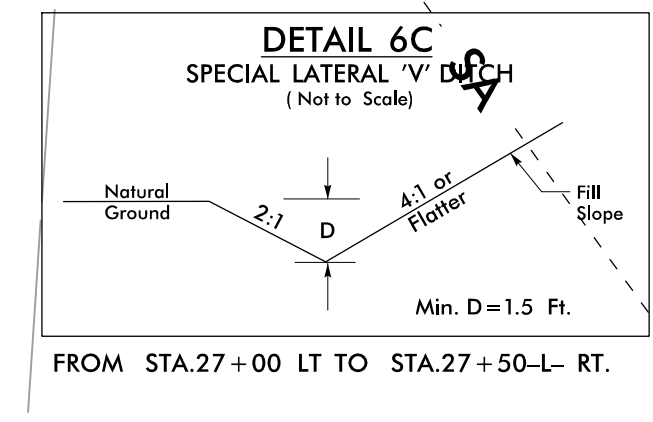
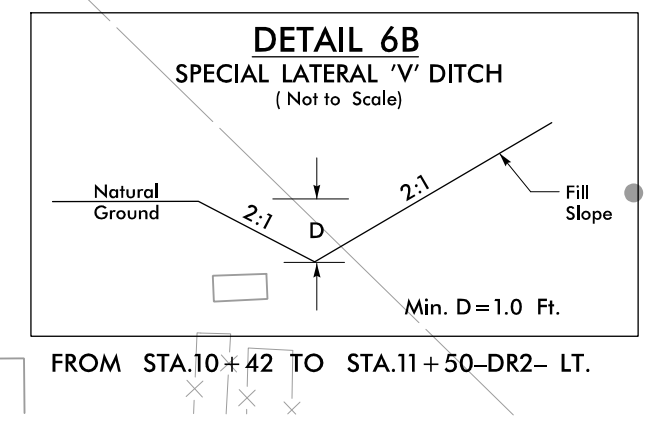
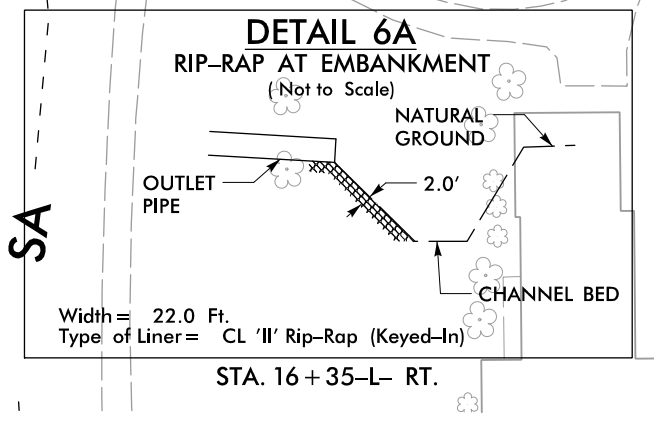
66 x 11 x 3
 1.5 inch Skimmer
 with 0.625 inch
 Orifice Diameter
 4 ft. weir
 ID 6.2


MATCH LINE STA -L- 16+00.00
 MATCH TO SHEET NO. 4

MATCH LINE STA -L- 30+00.00
 MATCH TO SHEET NO. 7

END CONSTRUCTION
 -DR2- STA. 11+60.00

SAFETY FENCE



PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-26/CONST.7
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	

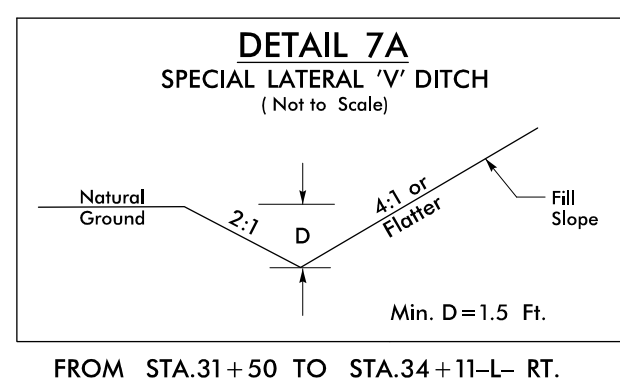
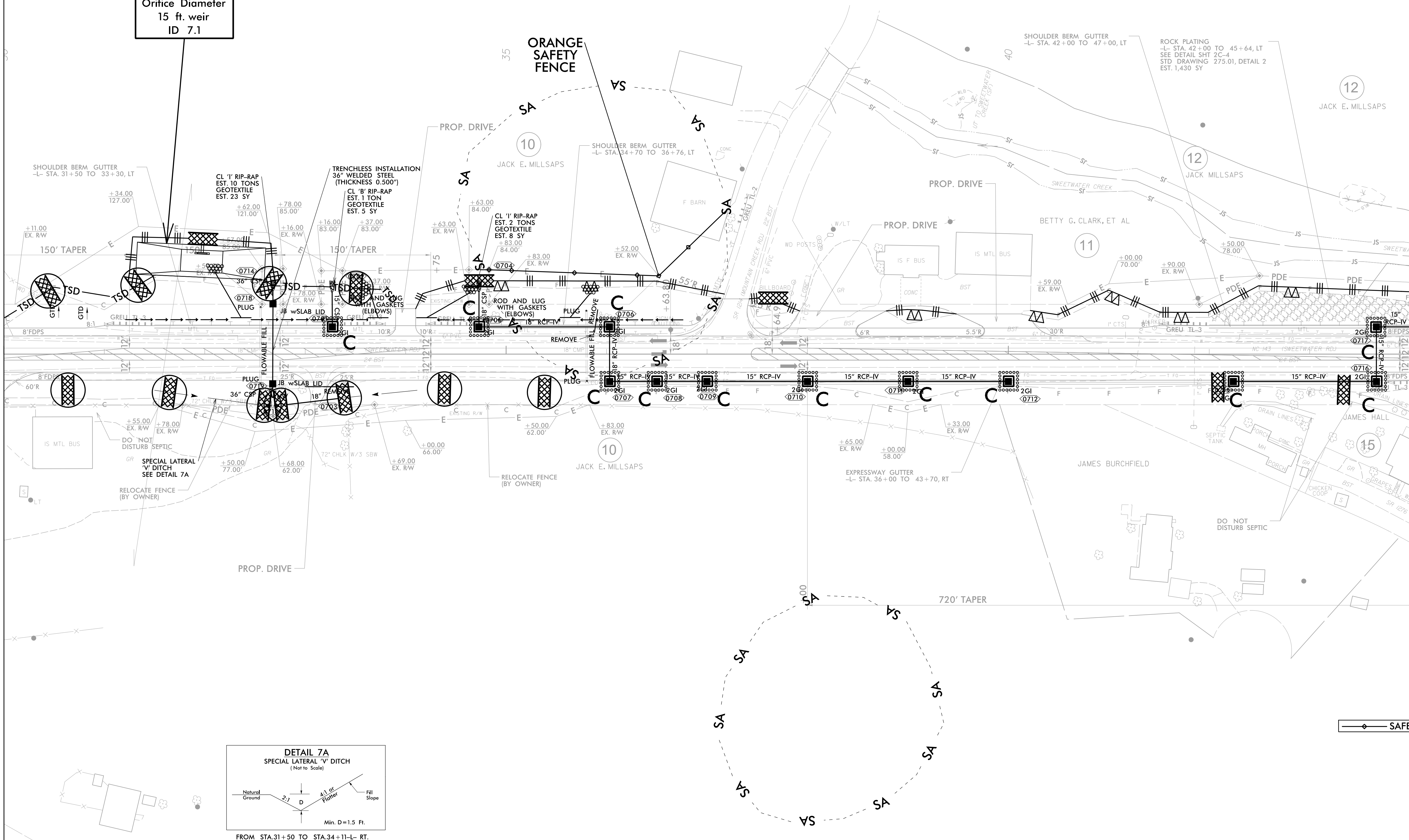
Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.



128 x 32 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
15 ft. weir
ID 7.1

MATCH LINE STA -L- 30+00.00
MATCH TO SHEET NO. 6

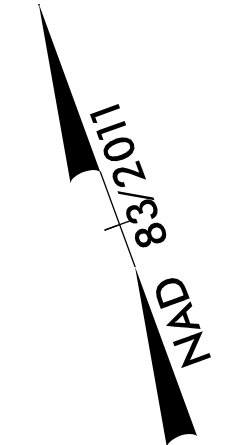
MATCH LINE STA -L- 44+00.00
MATCH TO SHEET NO. 8



SAFETY FENCE

-L- CURVE DATA
 PI Sta 59+31.02
 $\Delta = 49^{\circ} 37' 23.2" (LT)$
 $D = 5^{\circ} 58' 05.9"$
 $L = 831.44'$
 $T = 443.82'$
 $R = 960.00'$
 $SE = 0.08$
 $DS = 55 MPH$

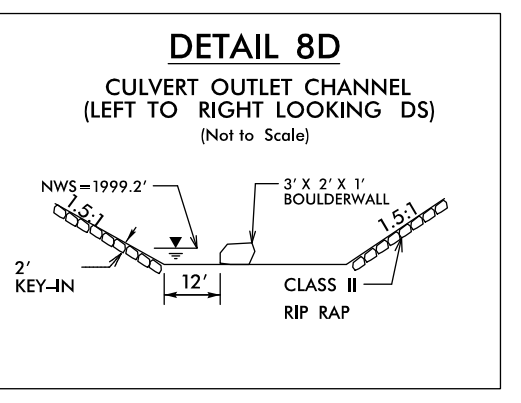
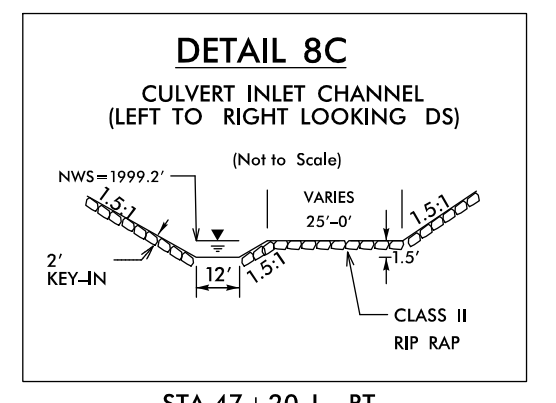
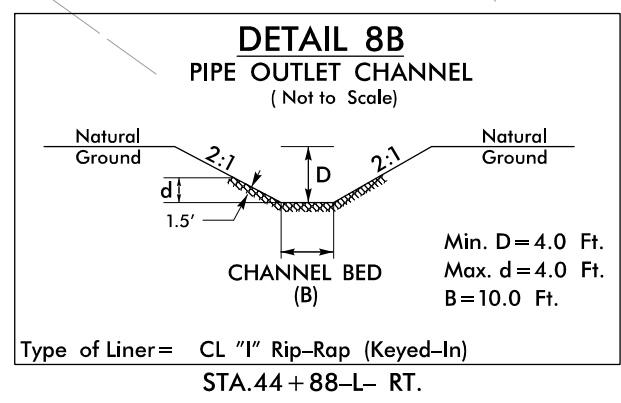
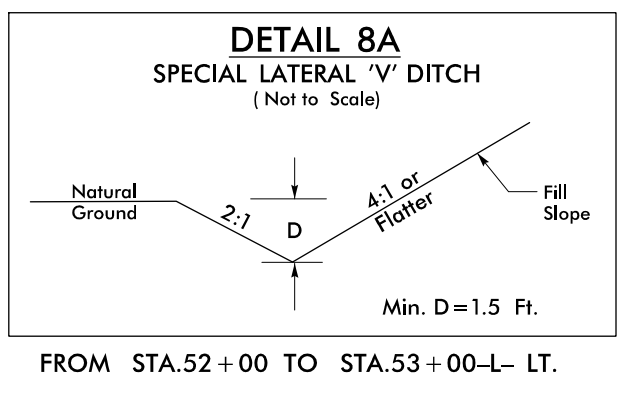
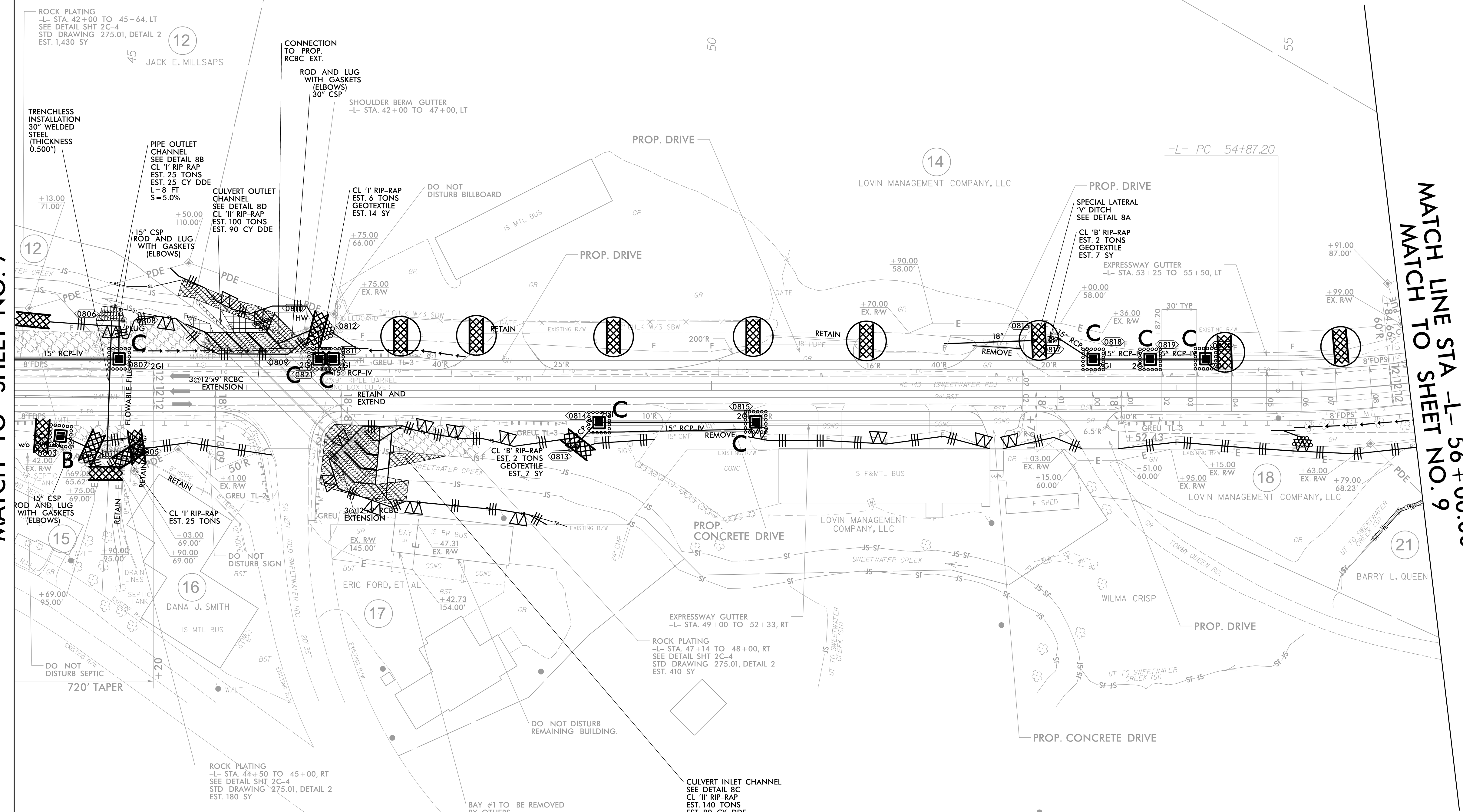
Place Matting for Erosion Control
 on Slopes Adjacent to Permitted
 Wetlands as Work Allows.



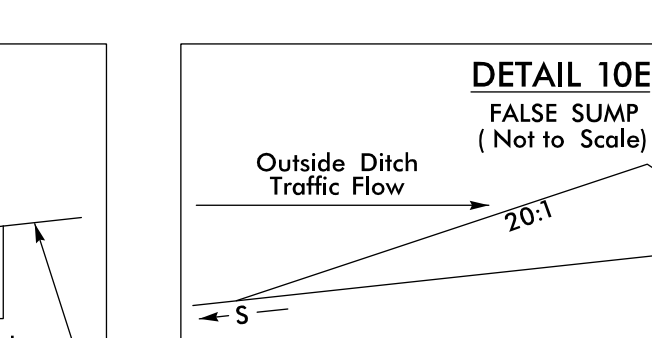
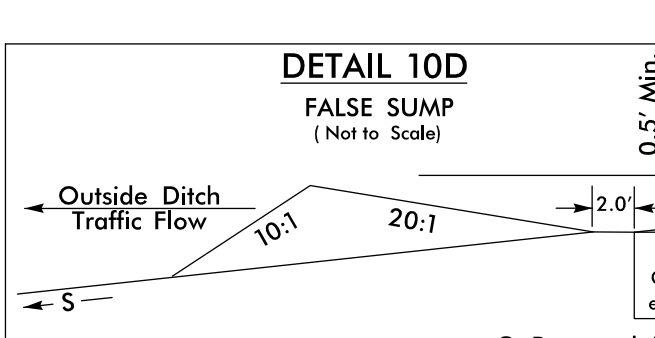
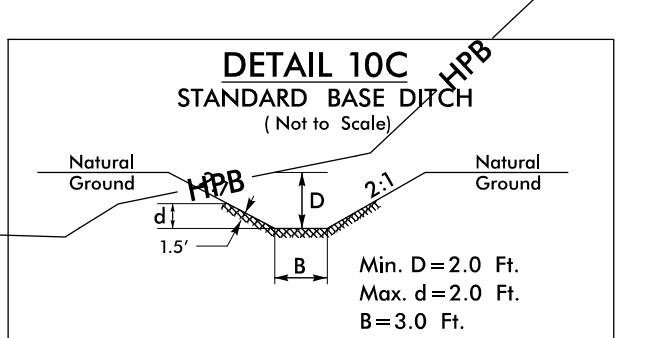
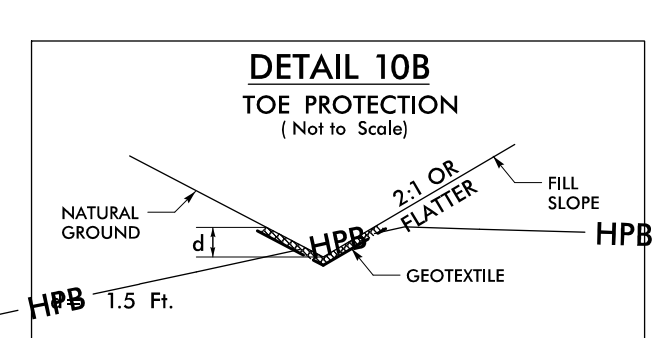
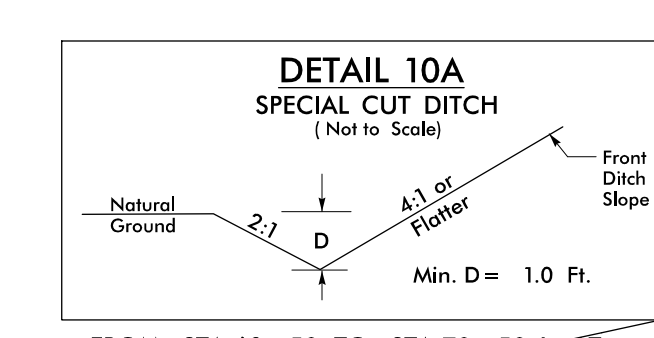
PROJECT REFERENCE NO.	SHEET NO.
A-0009CA	EC-27/CONST.B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

MATCH LINE STA -L- 44+00.00
MATCH TO SHEET NO. 7

MATCH LINE STA -L- 56+00.00
MATCH TO SHEET NO. 9

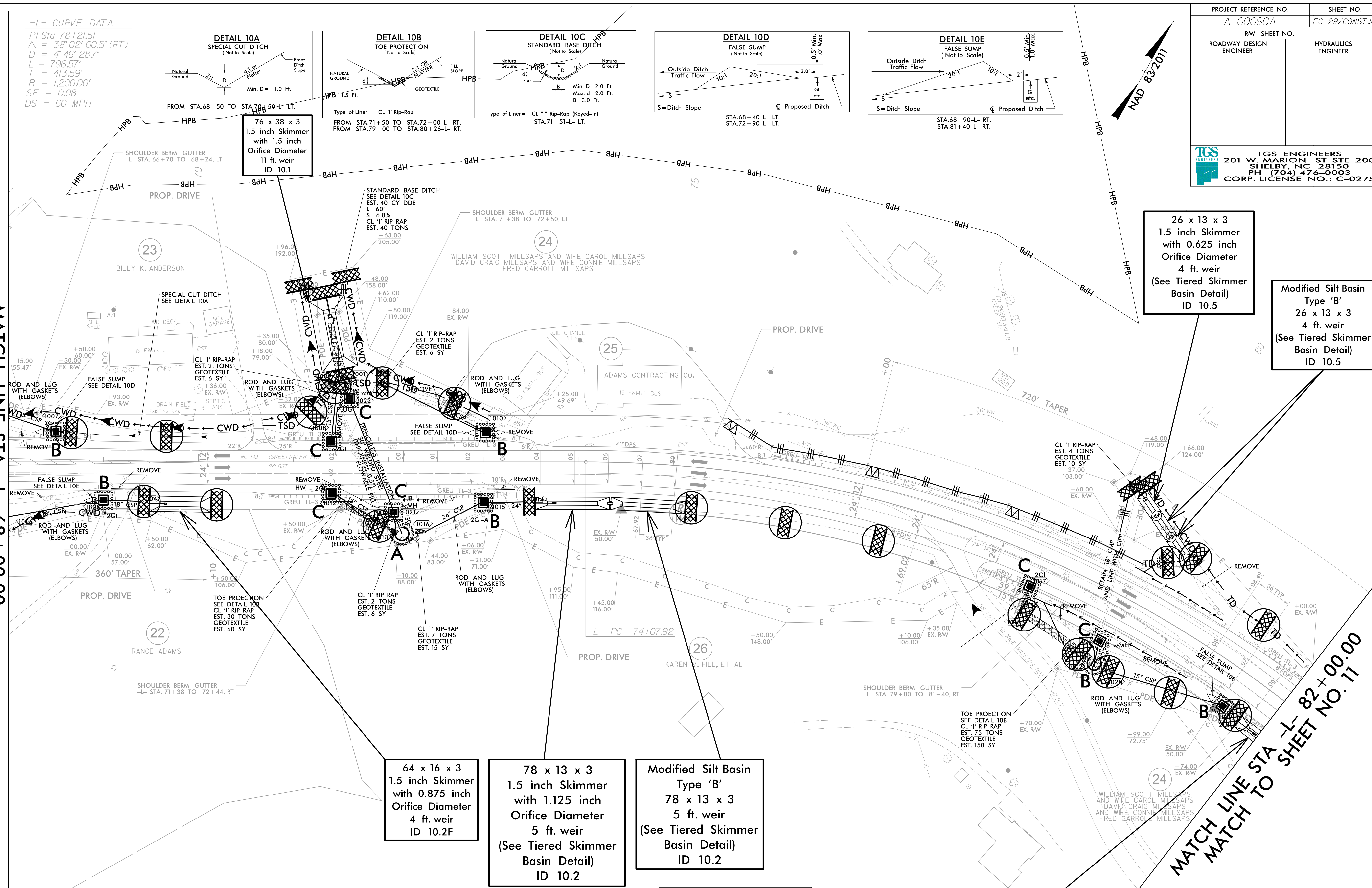


-L- CURVE DATA
 PI Sta 78+21.51
 $\Delta = 38^{\circ} 02' 00.5" (RT)$
 $D = 4^{\circ} 46' 28.7"$
 $L = 796.57'$
 $T = 413.59'$
 $R = 1,200.00'$
 $SE = 0.08$
 $DS = 60 \text{ MPH}$



PROJECT REFERENCE NO.	SHEET NO.
A-0009CA	EC-29/CONST.10
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	

MATCH LINE STA -L- 68+00.00
MATCH TO SHEET NO. 9



76 x 38 x 3
 1.5 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 11 ft. weir
 ID 10.1

26 x 13 x 3
 1.5 inch Skimmer
 with 0.625 inch
 Orifice Diameter
 4 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 10.5

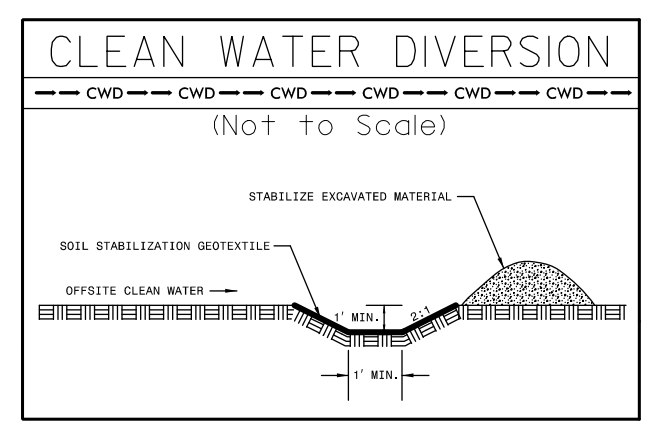
Modified Silt Basin
 Type 'B'
 26 x 13 x 3
 4 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 10.5

64 x 16 x 3
 1.5 inch Skimmer
 with 0.875 inch
 Orifice Diameter
 4 ft. weir
 ID 10.2F


78 x 13 x 3
 1.5 inch Skimmer
 with 1.125 inch
 Orifice Diameter
 5 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 10.2

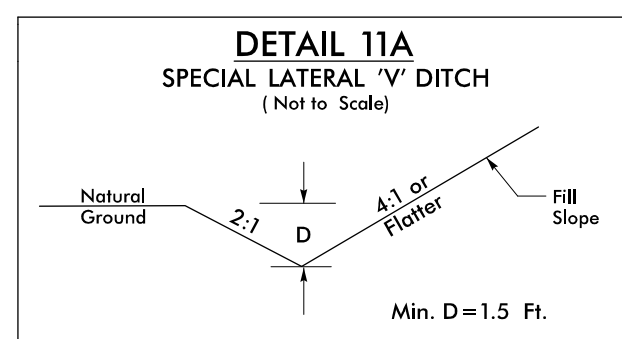
Modified Silt Basin
 Type 'B'
 78 x 13 x 3
 5 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 10.2

84 x 14 x 3
 1.5 inch Skimmer
 with 0.875 inch
 Orifice Diameter
 4 ft. weir
 ID 10.1F

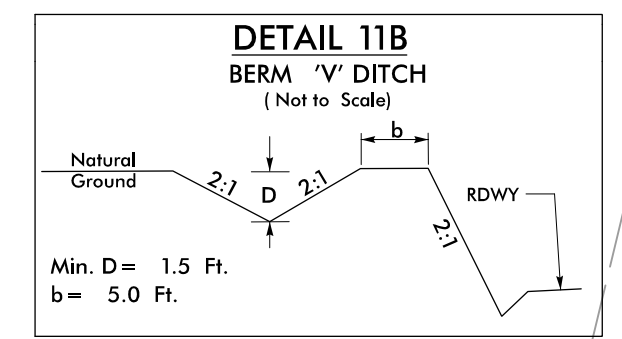


For Slopes Excavated Greater Than 10 feet
 Install Matting for Erosion Control on
 Entire Slope as Work Allows.

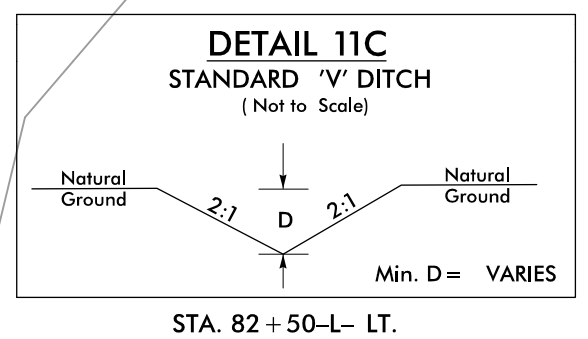
PROJECT REFERENCE NO.	SHEET NO.
A-0009CA	EC-30/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



FROM STA.87+00 TO STA.87+50-L- LT.
FROM STA.88+62 TO STA.89+50-L- LT.



FROM STA.91+95 TO STA.92+50-L- LT.
FROM STA.93+85 TO STA.96+00-L- LT.



STA. 82 + 50-L- LT.

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

27
LOVIN MANAGEMENT COMPANY, LLC

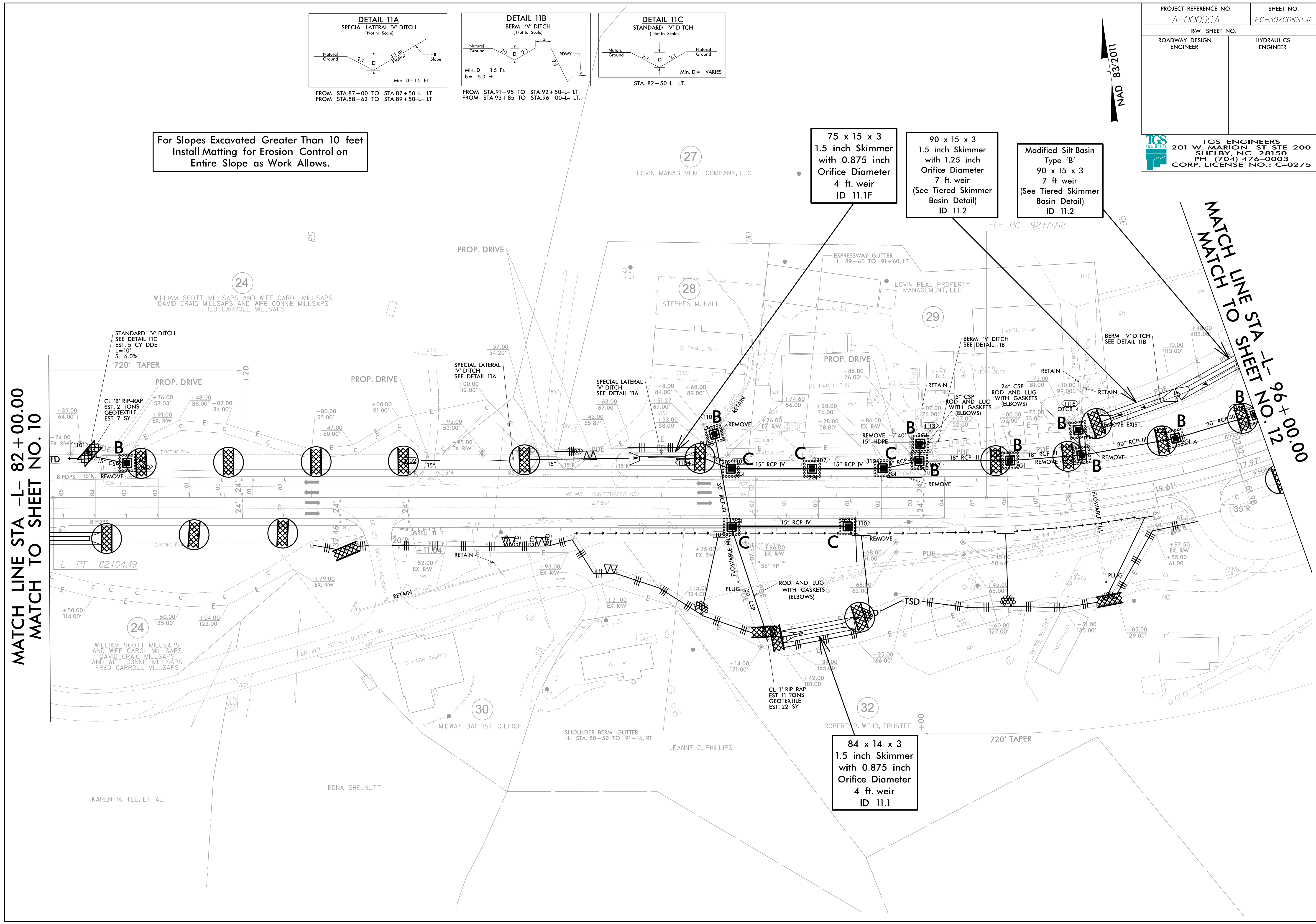
75 x 15 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 11.1F

90 x 15 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 11.2

Modified Silt Basin
Type 'B'
90 x 15 x 3
7 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 11.2

MATCH LINE STA -L- 82+00.00
MATCH TO SHEET NO.10

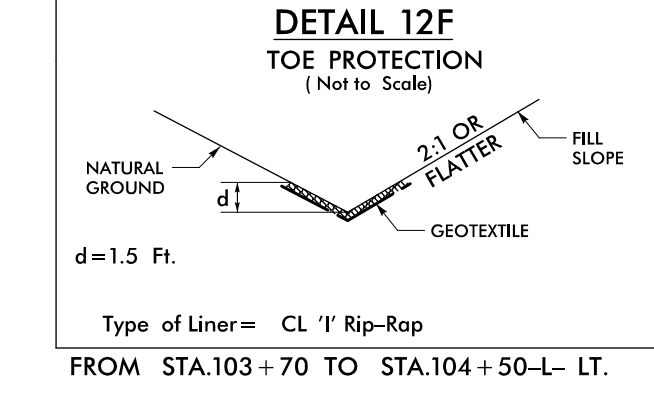
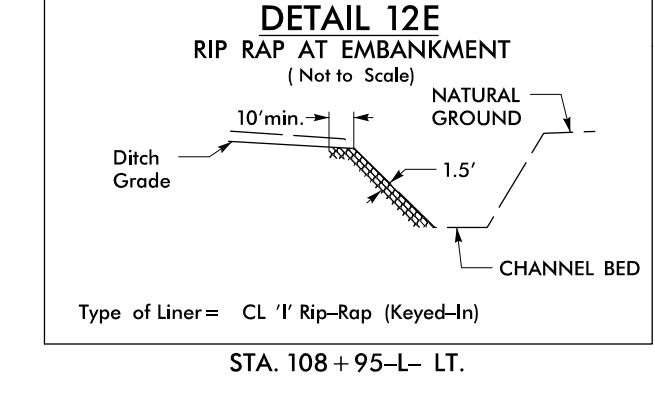
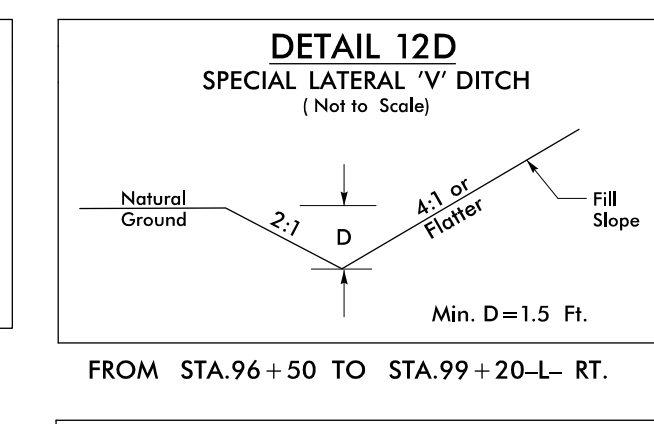
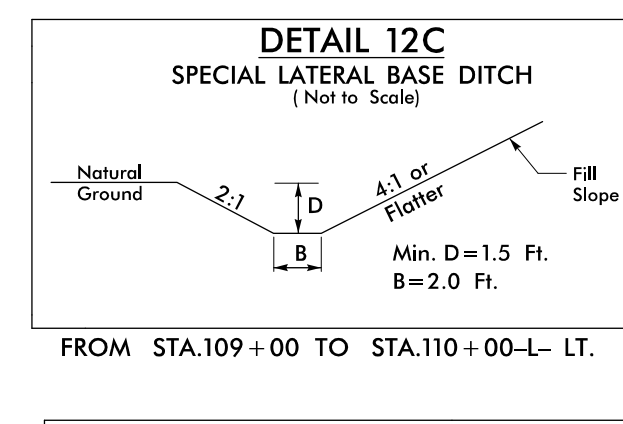
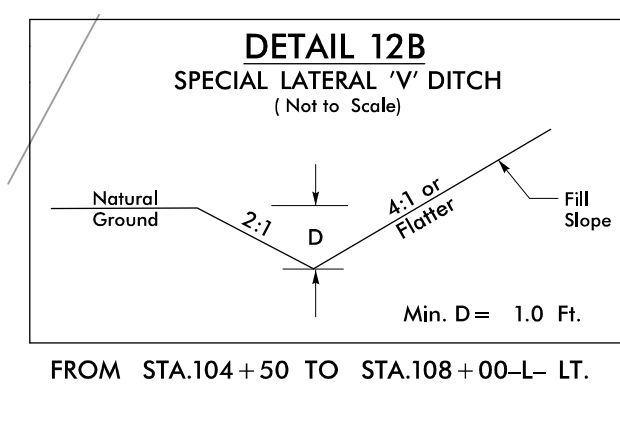
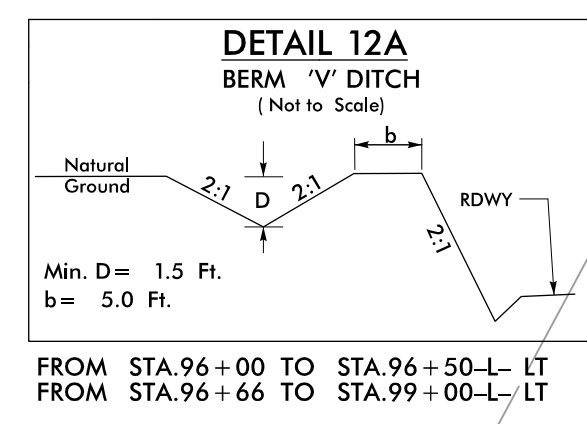
MATCH LINE TO SHEET -L- NO.12
96+00.00



NAD 83/2011

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.



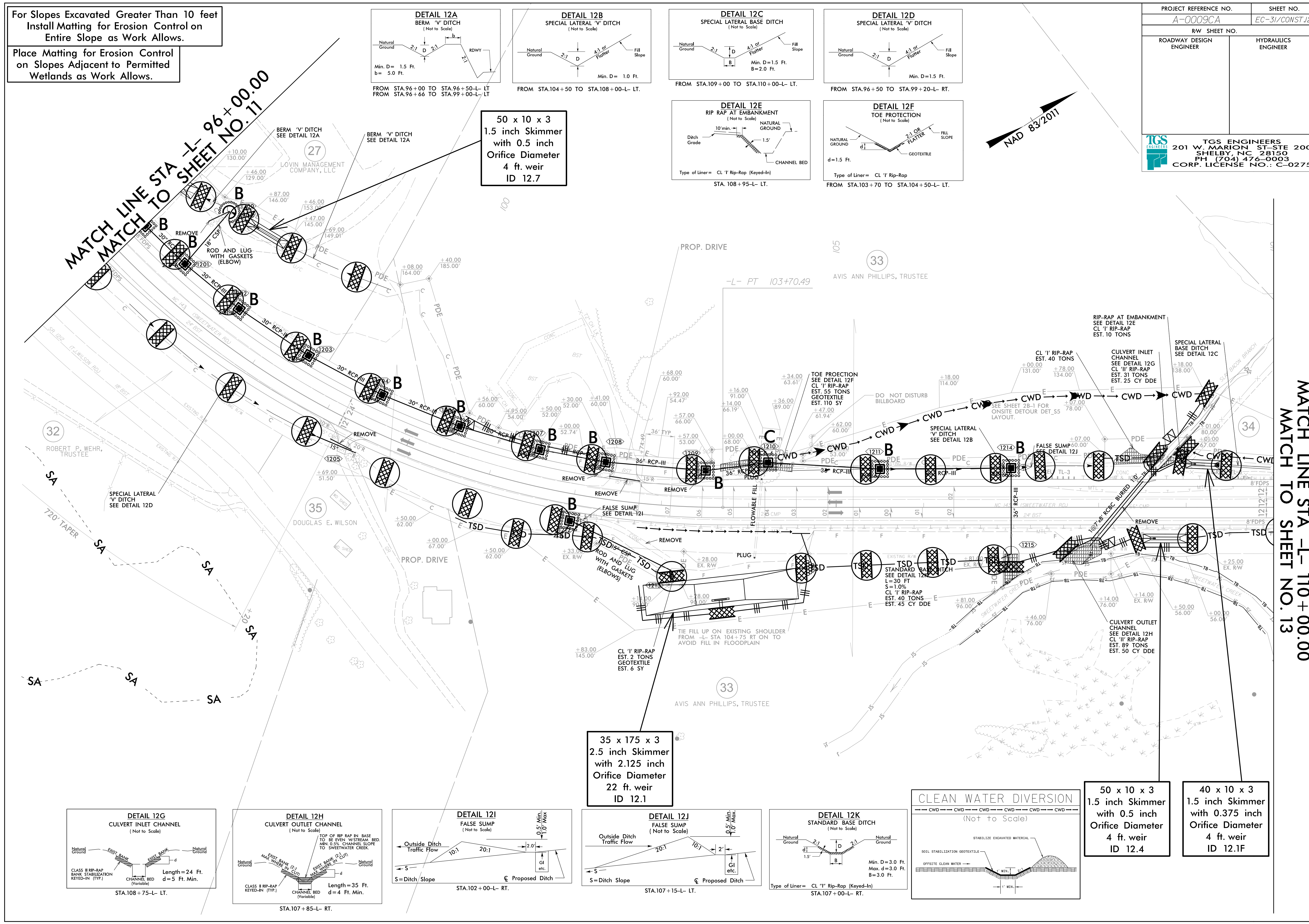
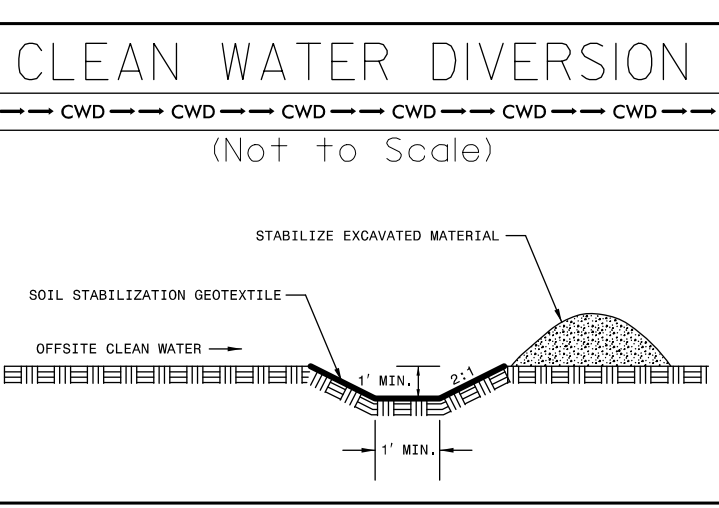
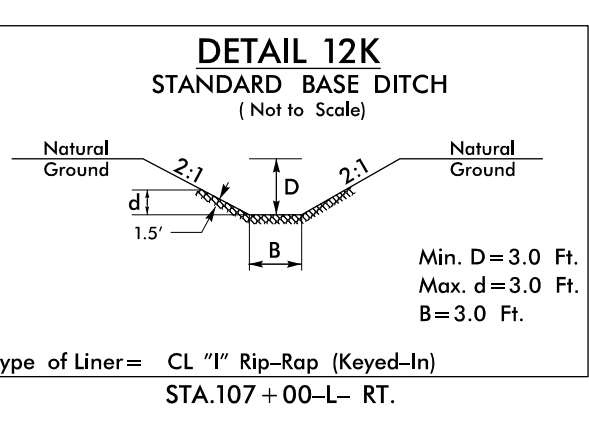
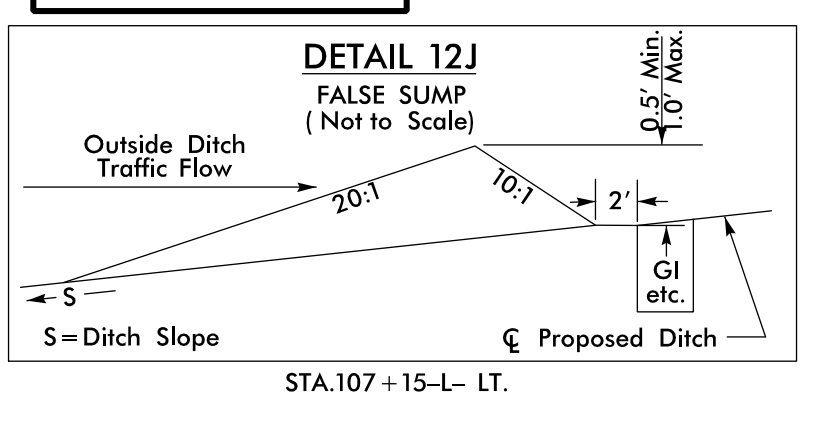
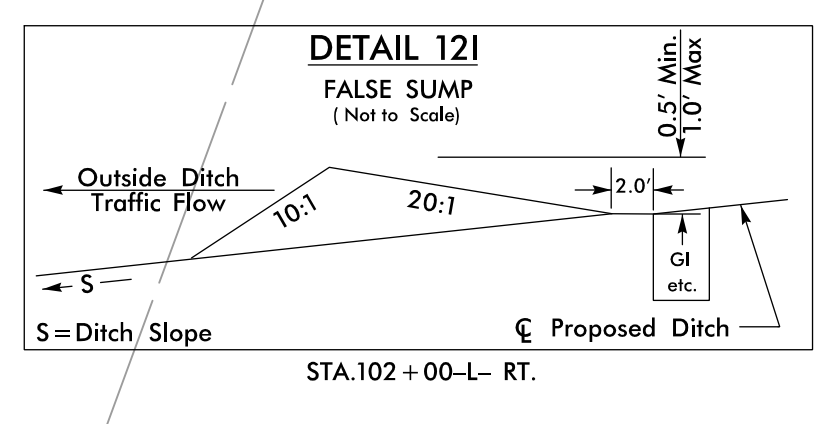
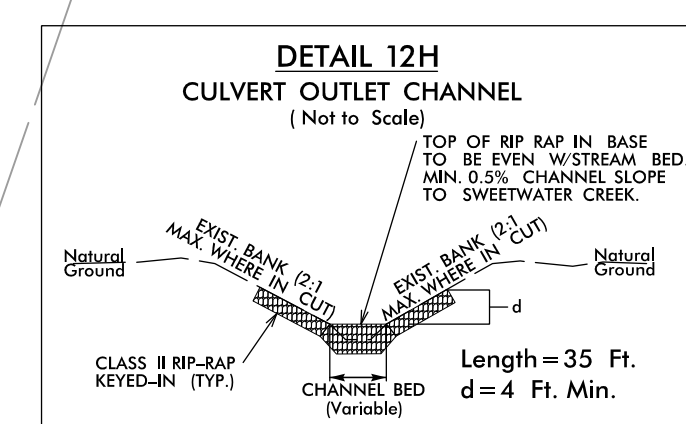
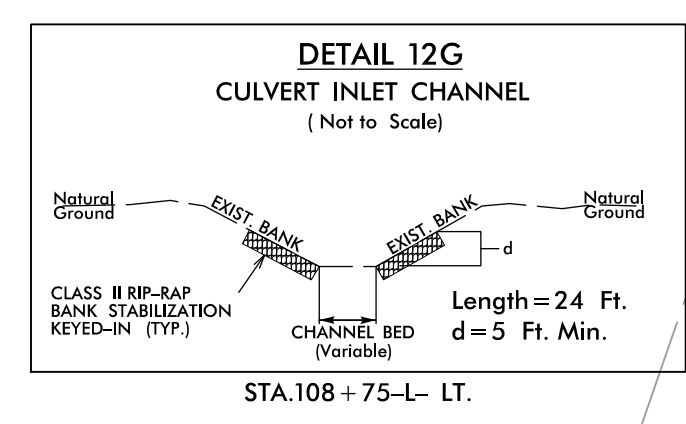
MATCH LINE STA -L- 96+00.00
MATCH TO SHEET NO. 11

50 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 12.7

35 x 175 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
22 ft. weir
ID 12.1

50 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 12.4

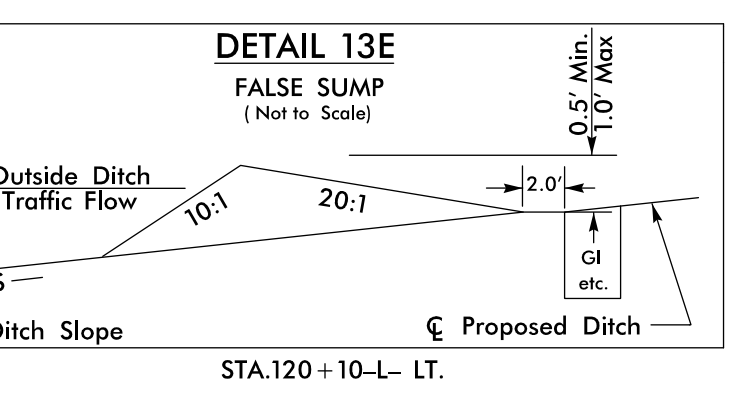
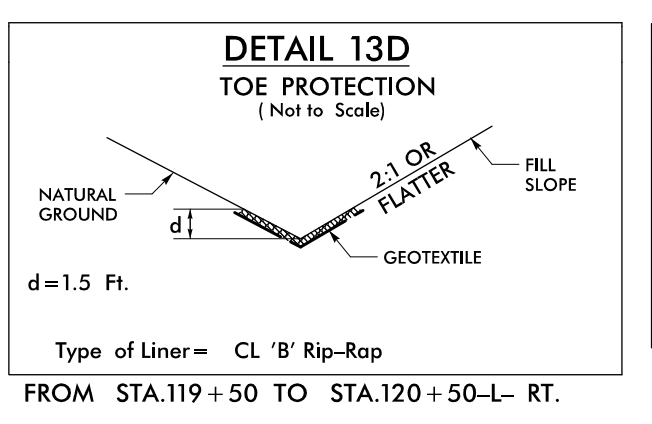
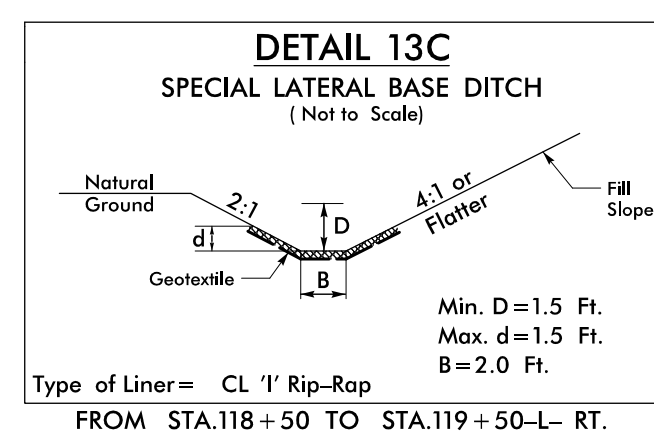
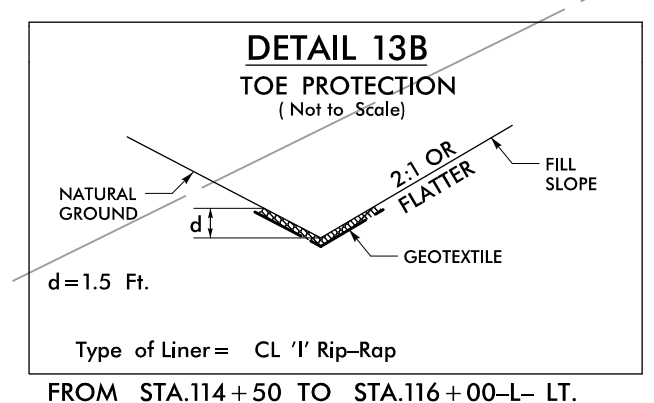
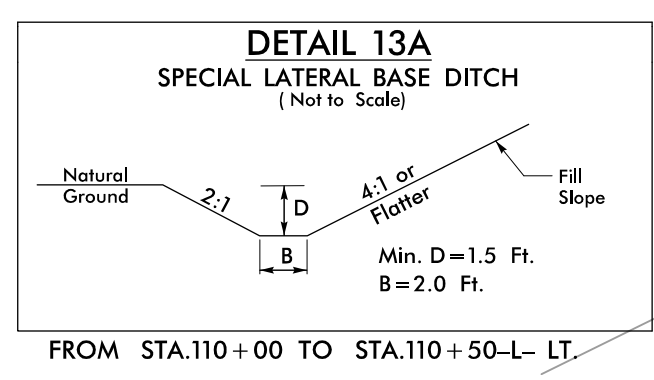
40 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 12.1F



PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-31/CONSTJ2
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	

MATCH LINE STA -L- 110+00.00
MATCH TO SHEET NO. 13

-L- CURVE DATA
PI Sta 117+87.67
 $\Delta = 39^{\circ} 02' 13.1''$ (RT)
D = 5' 30" 33.2"
L = 708.58'
T = 368.66'
R = 1,040.00'
SE = 0.08
DS = 55 MPH



PROJECT REFERENCE NO.	SHEET NO.
A-0009CA	EC-32/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

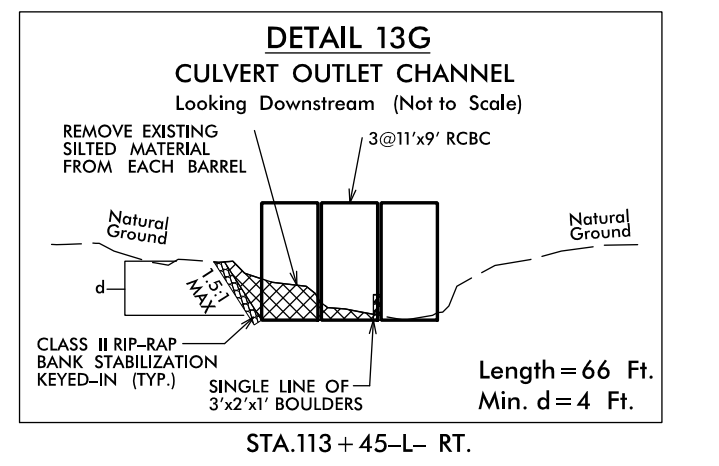
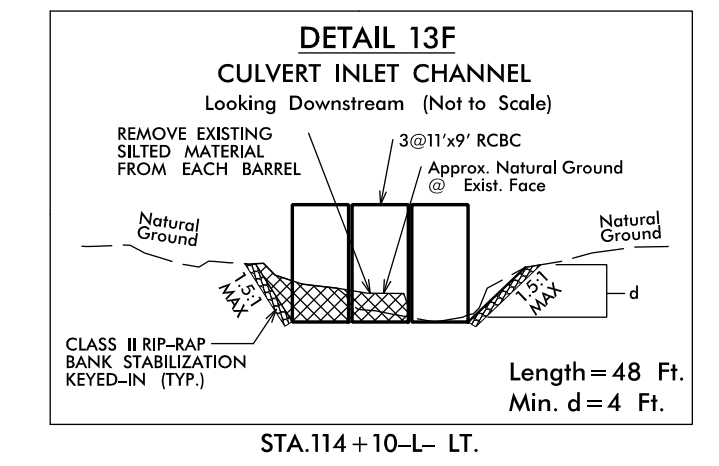
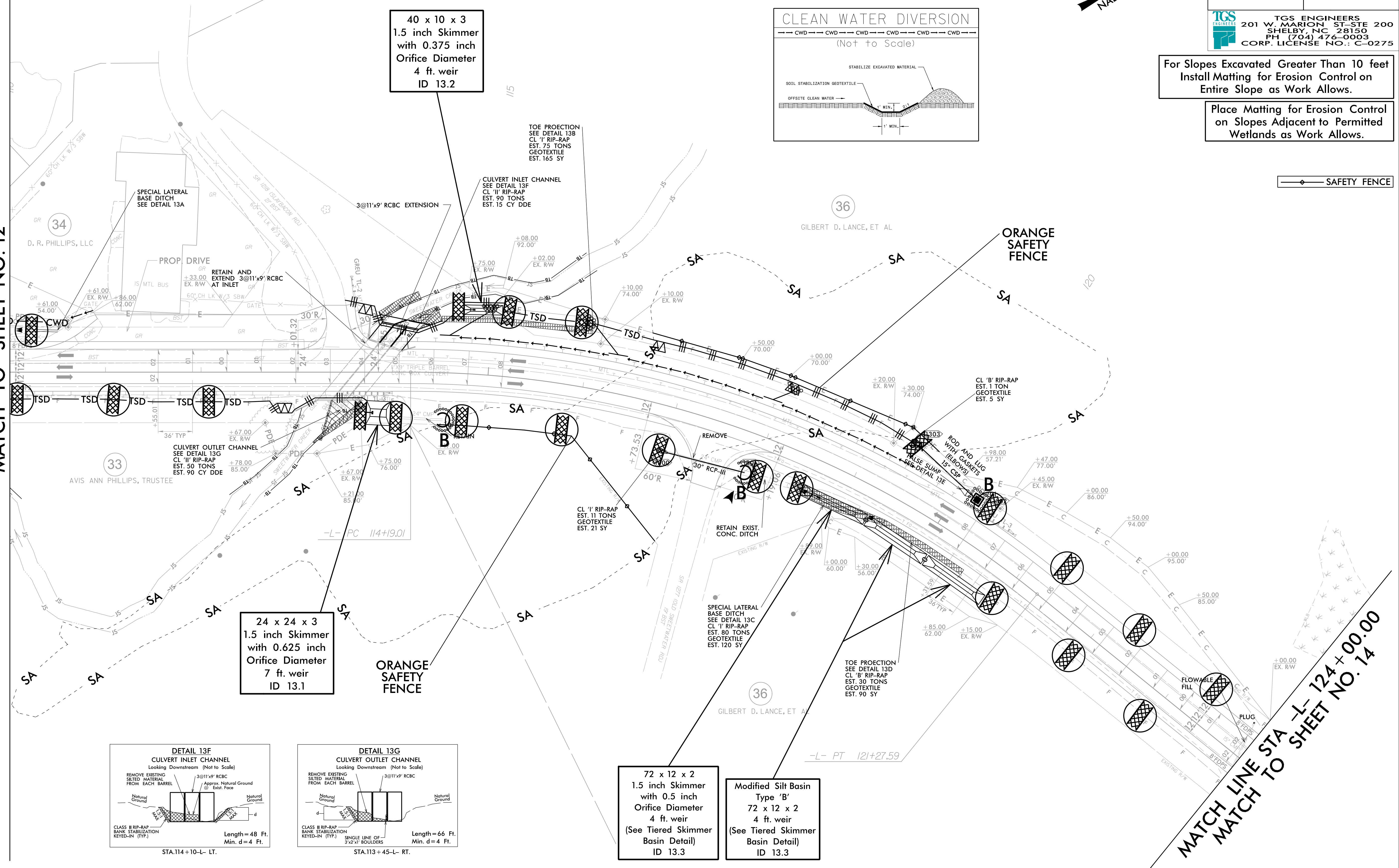
TGS ENGINEERS
201 W. MARION ST-STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

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.

SAFETY FENCE


MATCH LINE STA -L- 110+00.00
MATCH TO SHEET NO. 12



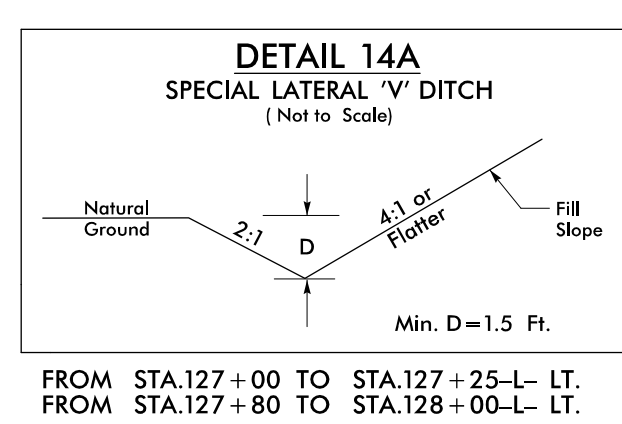
72 x 12 x 2
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft weir
(See Tiered Skimmer
Basin Detail)
ID 13.3

Modified Silt Basin
Type 'B'
72 x 12 x 2
4 ft weir
(See Tiered Skimmer
Basin Detail)
ID 13.3

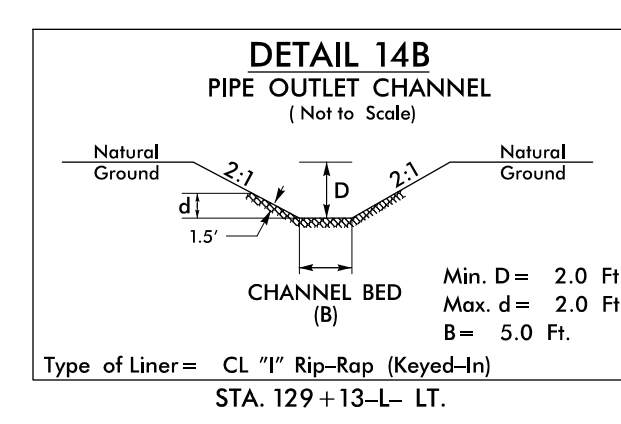
MATCH LINE STA -L- 124+00.00
MATCH TO SHEET NO. 14

PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-33/CONST.14
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	

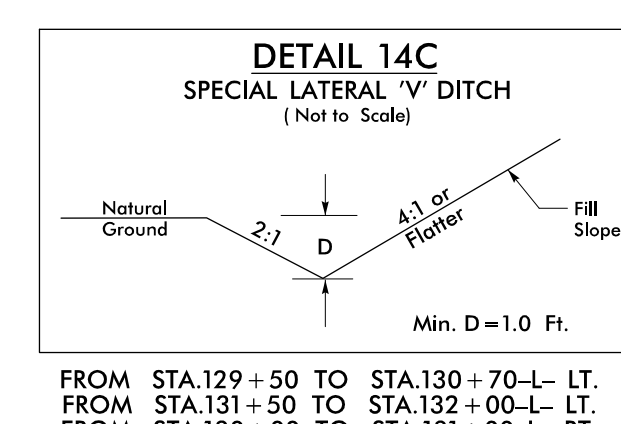
NAD 83 2017



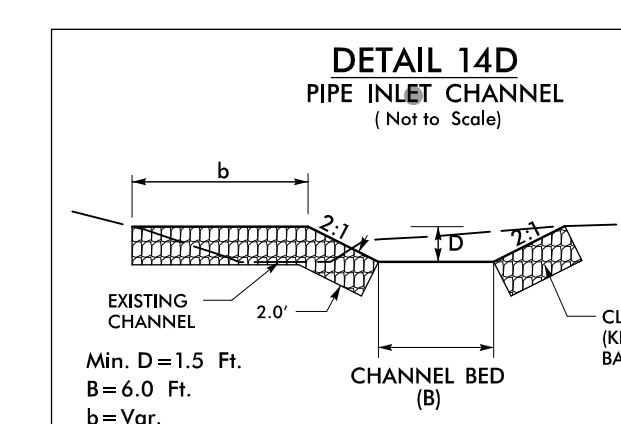
FROM STA.127+00 TO STA.127+25-L. LT.
FROM STA.127+80 TO STA.128+00-L. LT.



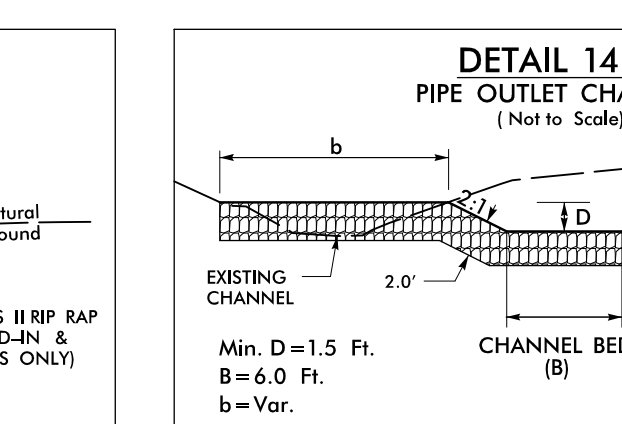
Type of Liner= CL "I" Rip-Rap (Keyed-In)
STA. 129+13-L. LT.



FROM STA.129+50 TO STA.130+70-L. LT.
FROM STA.131+50 TO STA.132+00-L. LT.
FROM STA.130+00 TO STA.131+00-L. RT.



STA.135+20-L. RT.



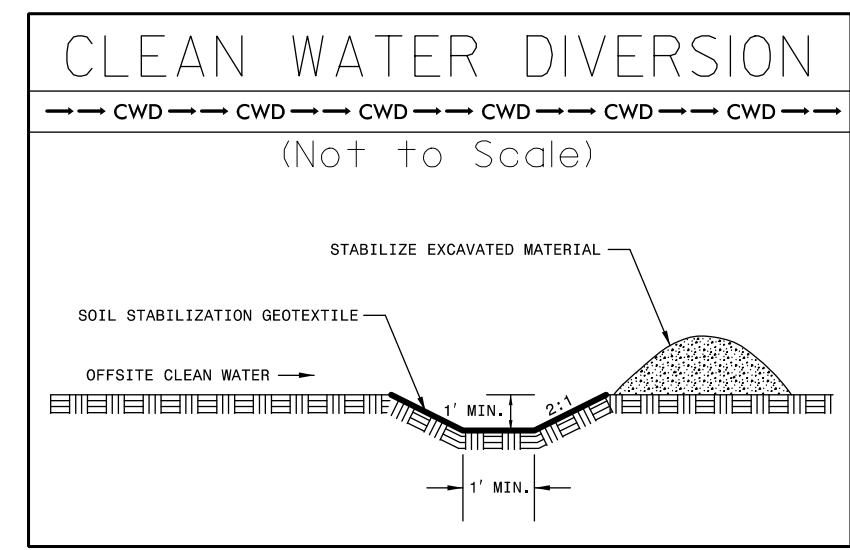
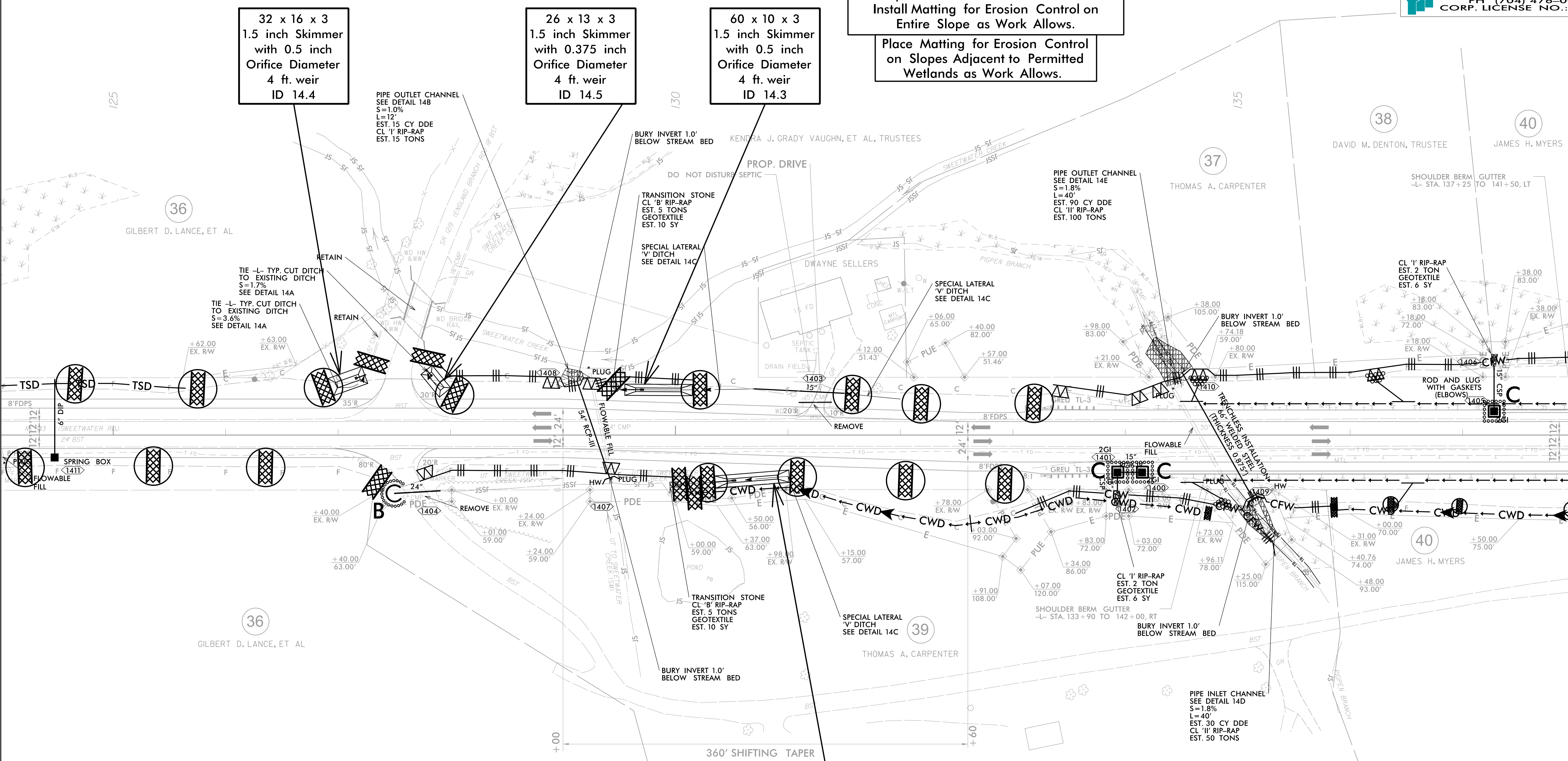
STA.134+40-L. LT.


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.

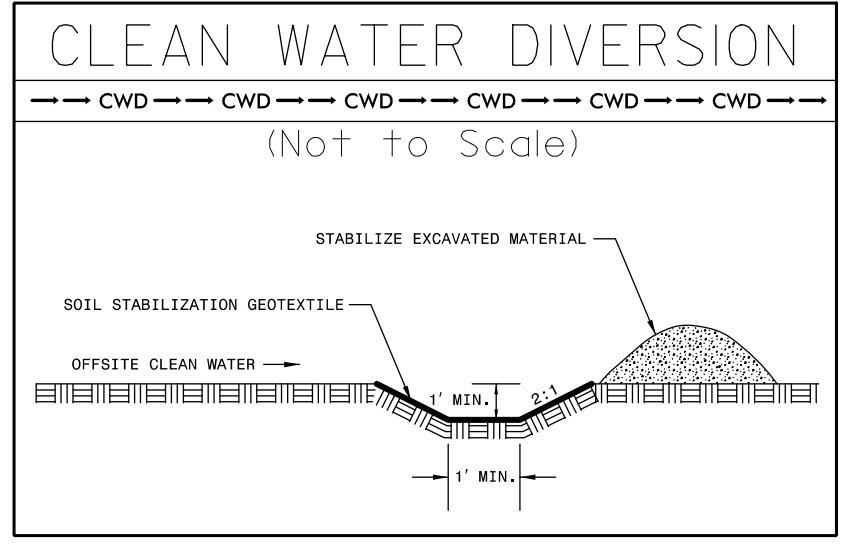
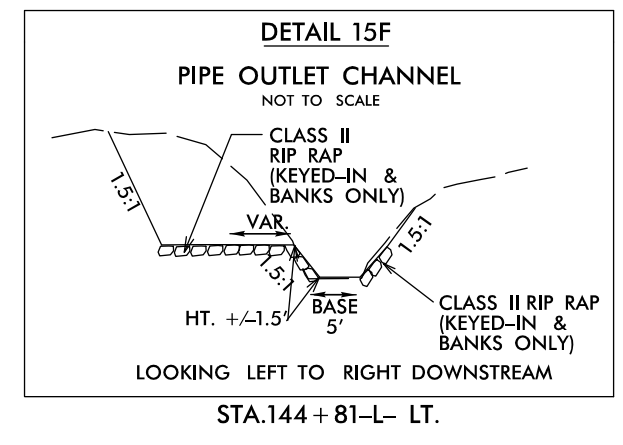
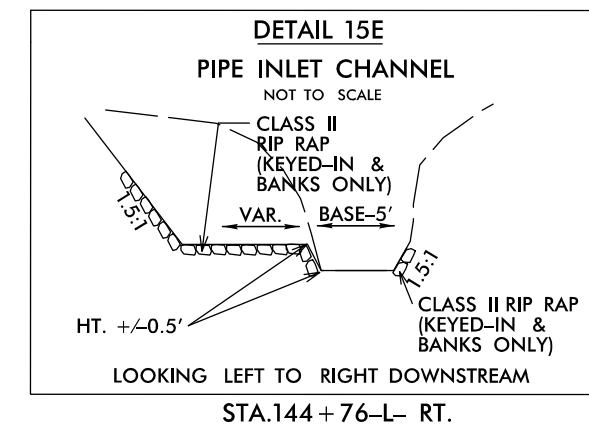
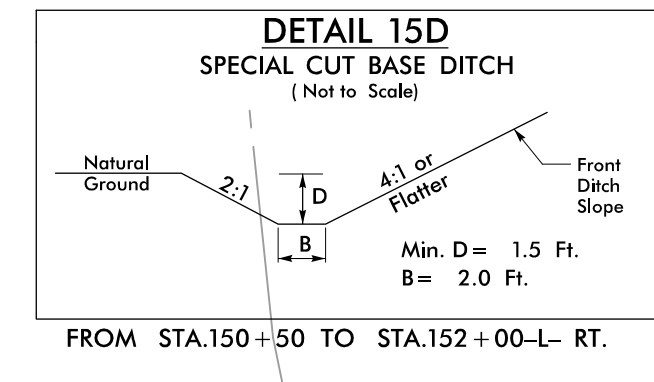
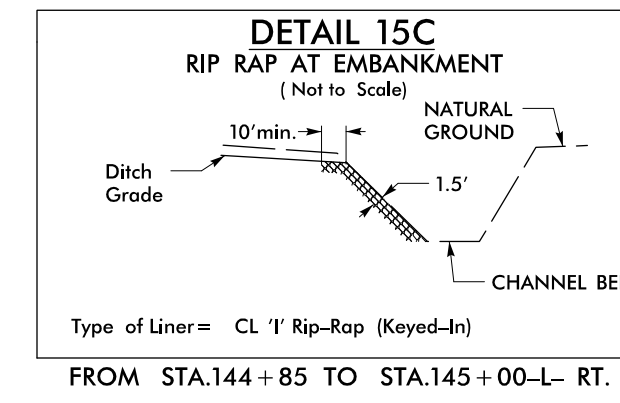
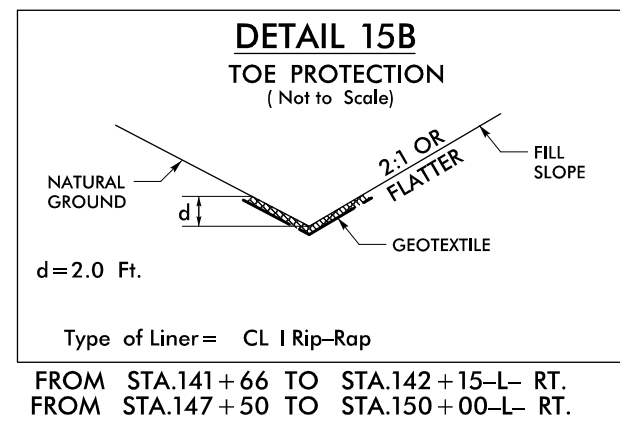
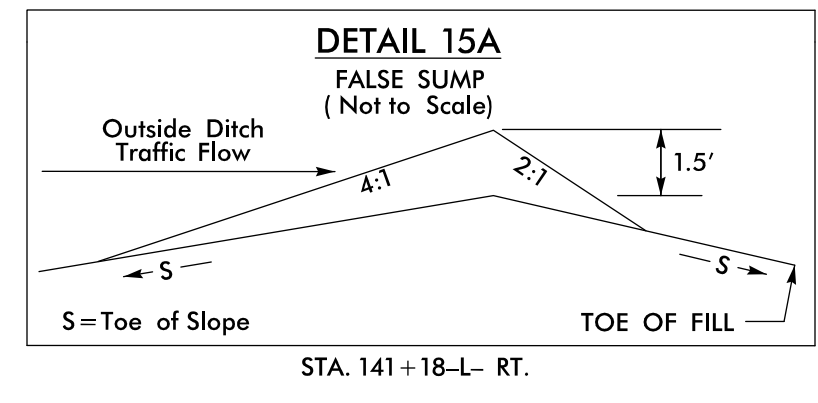
MATCH LINE STA -L- 124+00.00
MATCH TO SHEET NO. 13

MATCH LINE STA -L- 138+00.00
MATCH TO SHEET NO. 15



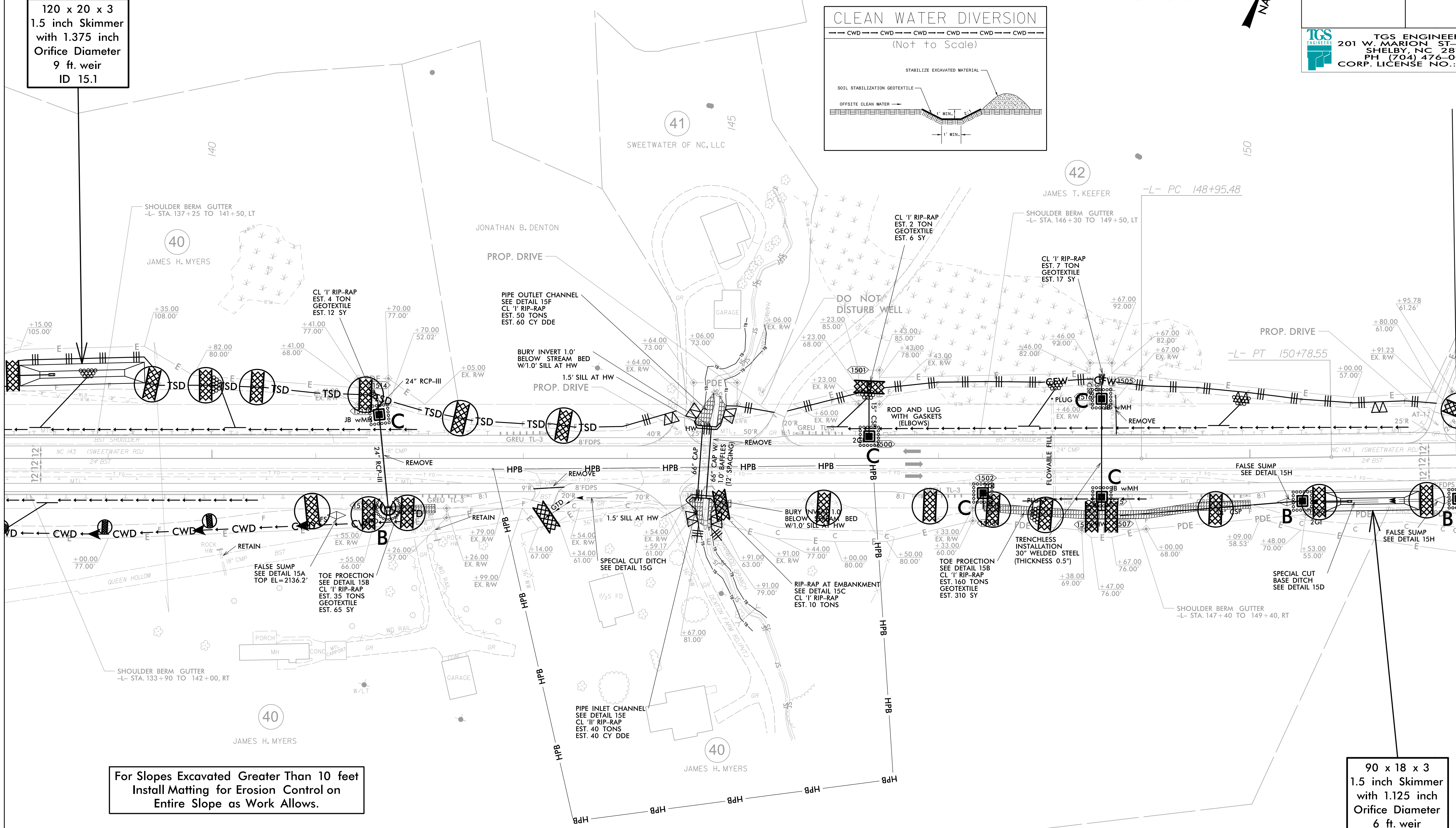
PROJECT REFERENCE NO.	SHEET NO.
A-0009CA	EC-34/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

-L- CURVE DATA
 PI Sta 149+87.02
 $\Delta = 0^{\circ} 52' 26.7''$ (LT)
 $D = 0^{\circ} 28' 38.9''$
 $L = 183.07'$
 $T = 91.54'$
 $R = 12,000.00'$
 SE = NC
 DS = 60 MPH



MATCH LINE STA -L- 138+00.00
MATCH TO SHEET NO. 14

MATCH LINE STA -L- 152+00.00
MATCH TO SHEET NO. 16

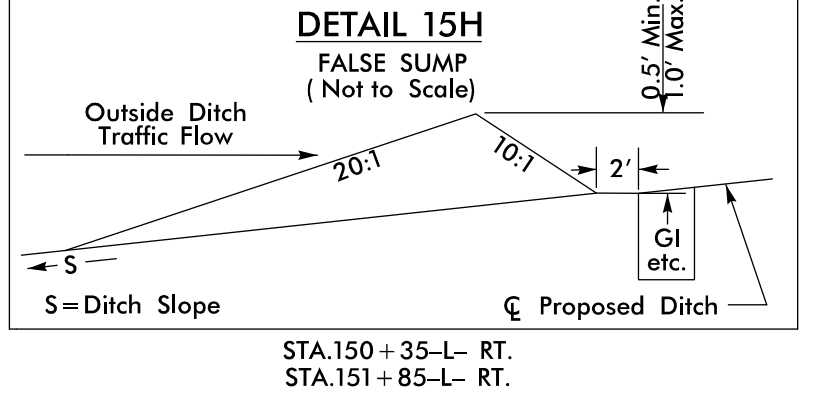
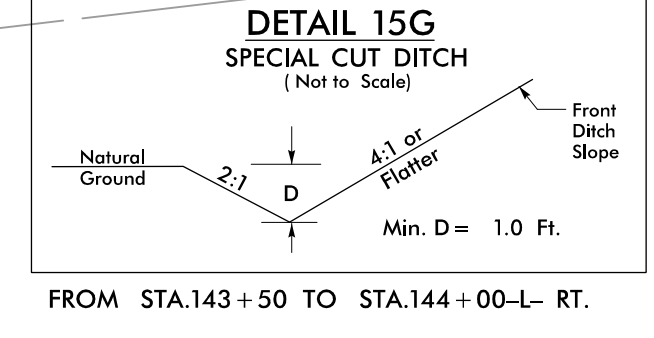



120 x 20 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 9 ft. weir
 ID 15.1

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

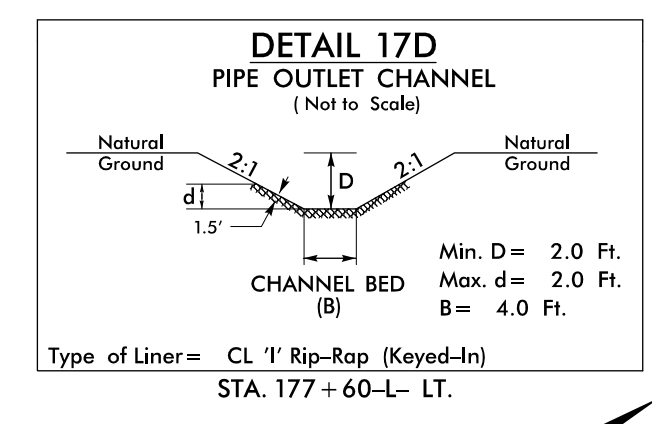
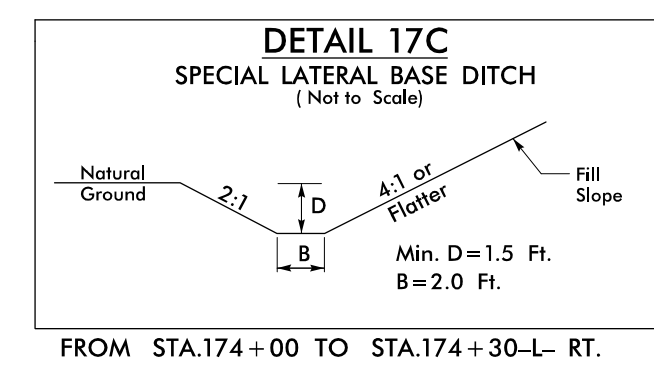
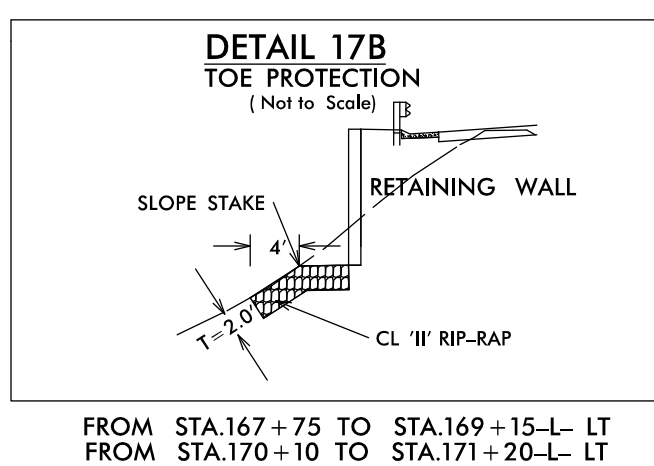
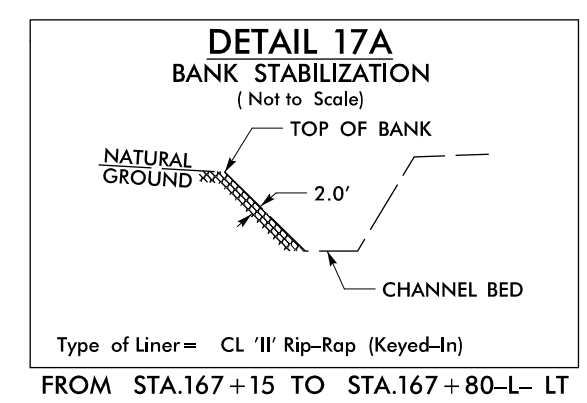
Place Matting for Erosion Control
 on Slopes Adjacent to Permitted
 Wetlands as Work Allows.

90 x 18 x 3
 1.5 inch Skimmer
 with 1.125 inch
 Orifice Diameter
 6 ft. weir
 ID 15.2



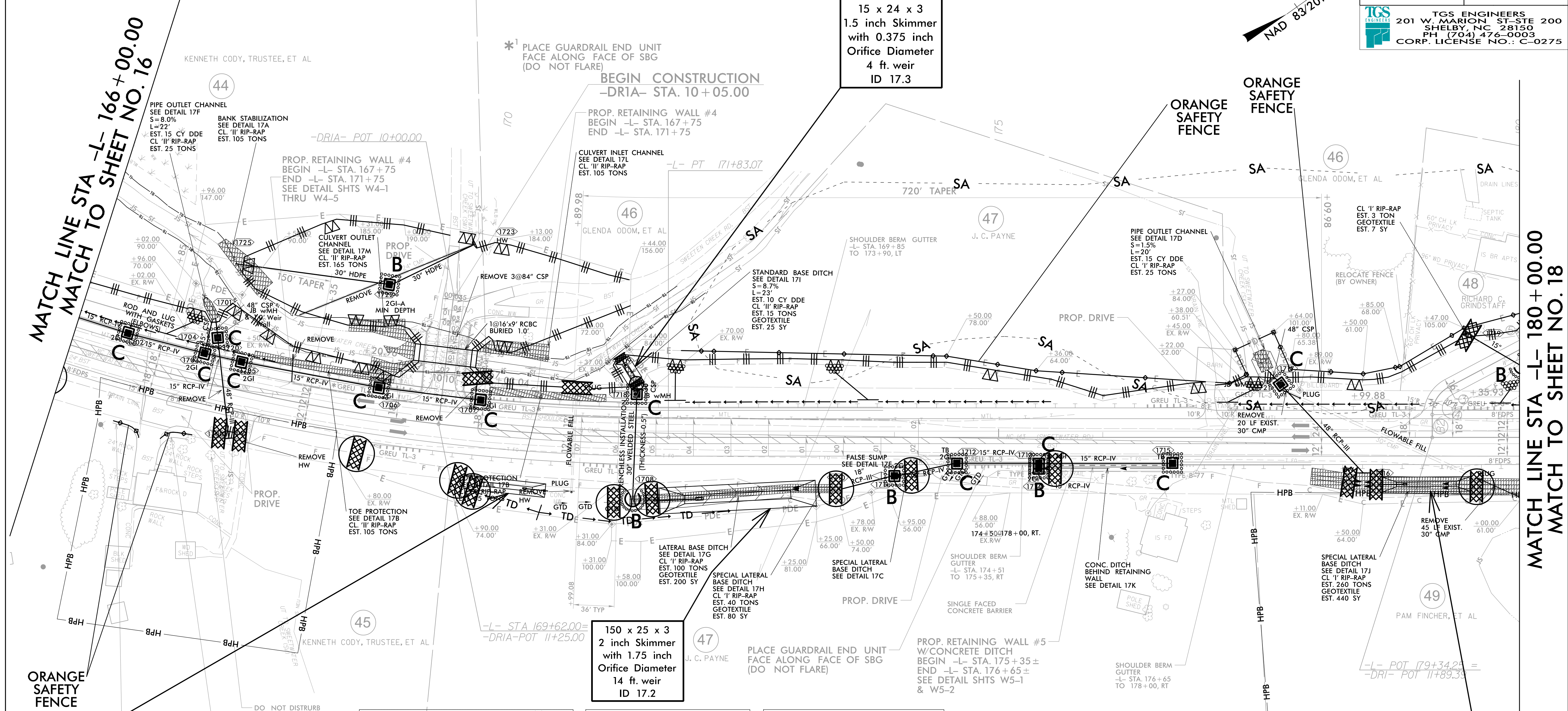
PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-36/CONST.17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

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.

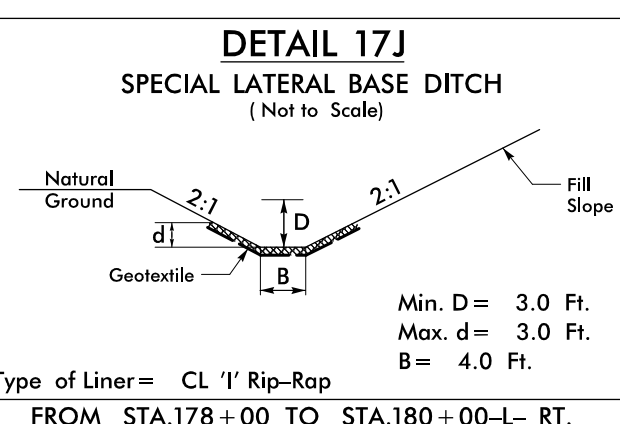
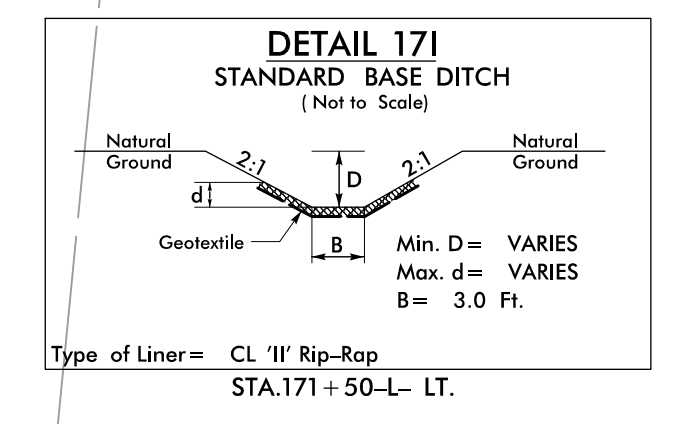
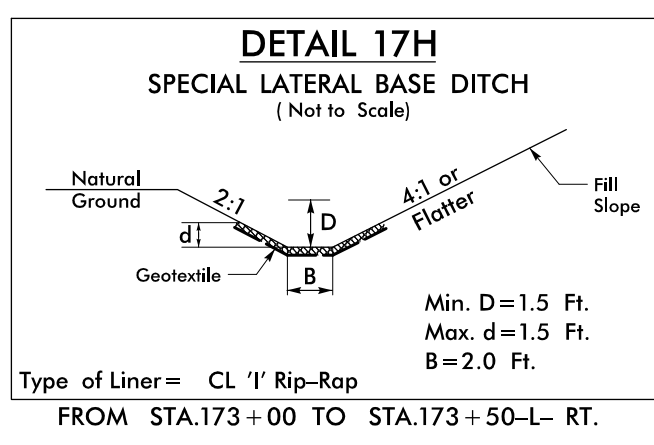
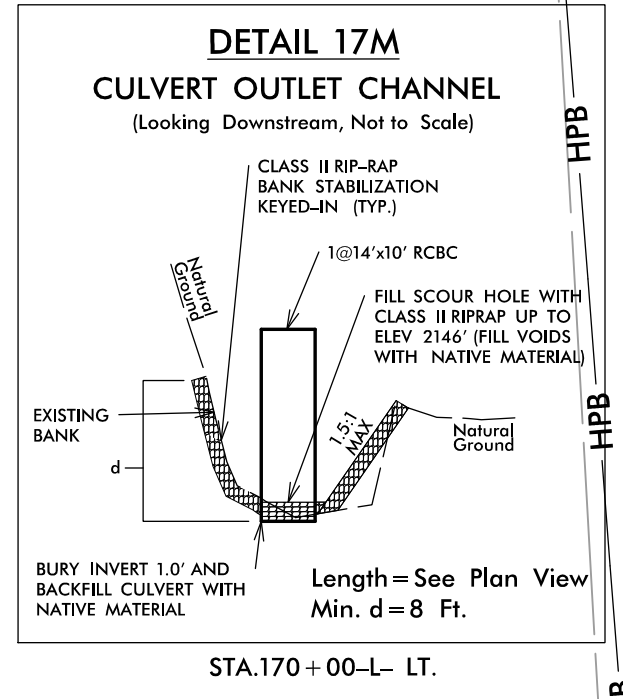
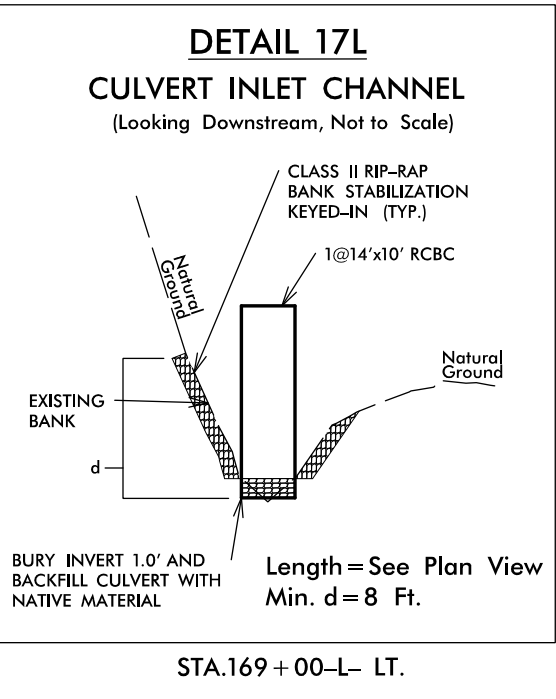
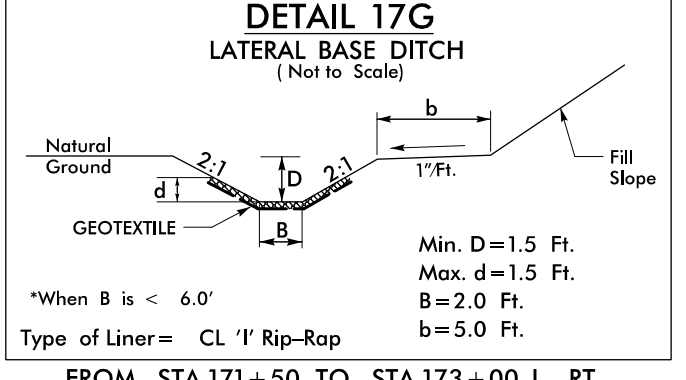
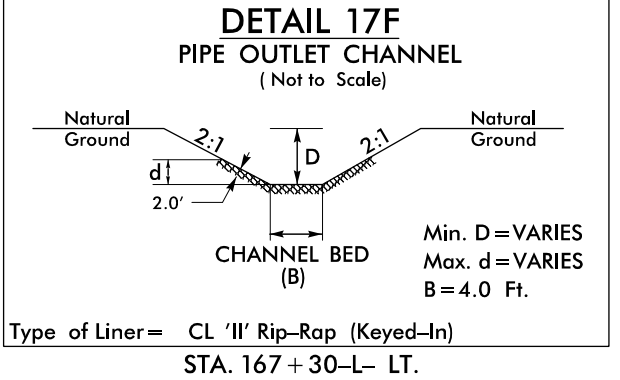
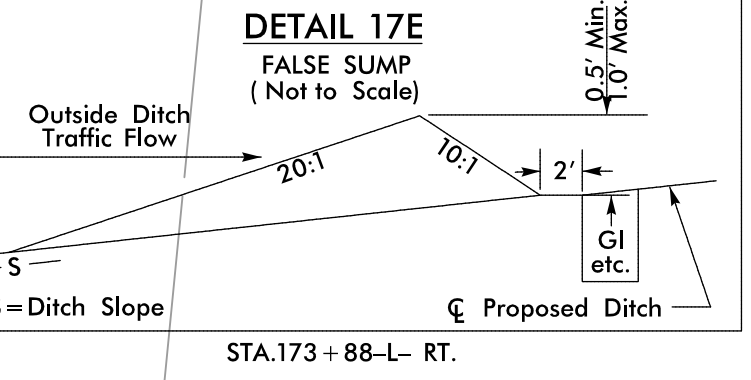
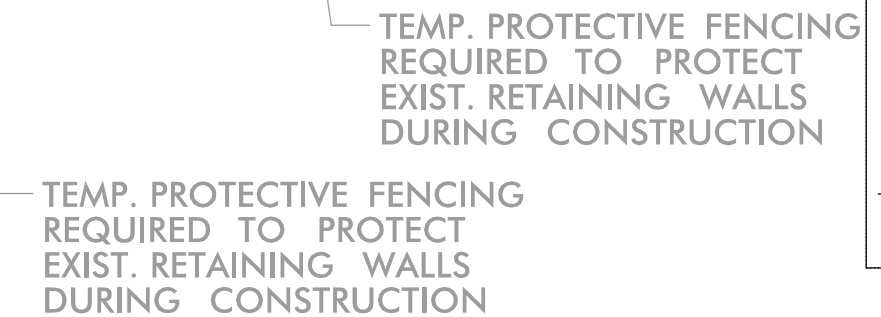


SAFETY FENCE

MATCH LINE STA -L- 166+00.00
MATCH TO SHEET NO. 16

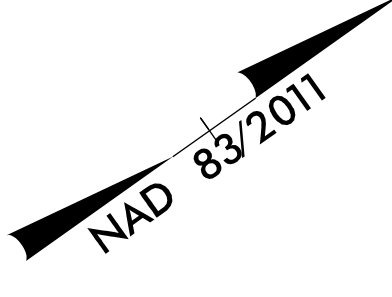



78 x 13 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 17.1



84 x 14 x 2
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 17.1F

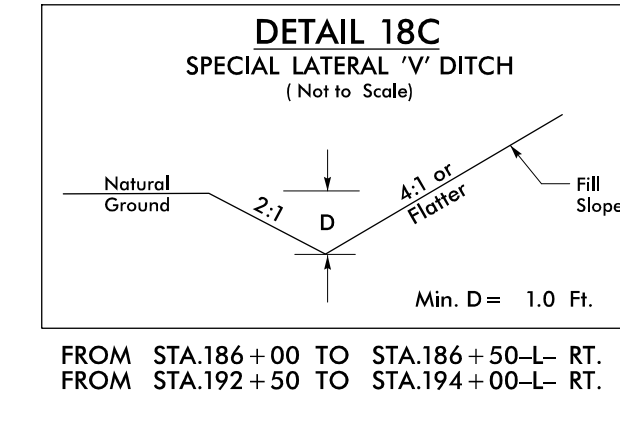
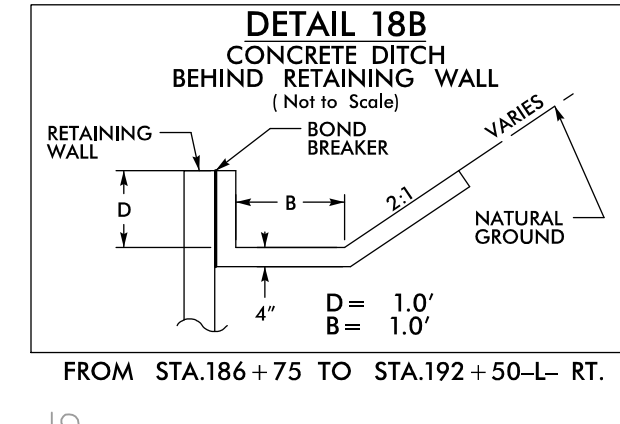
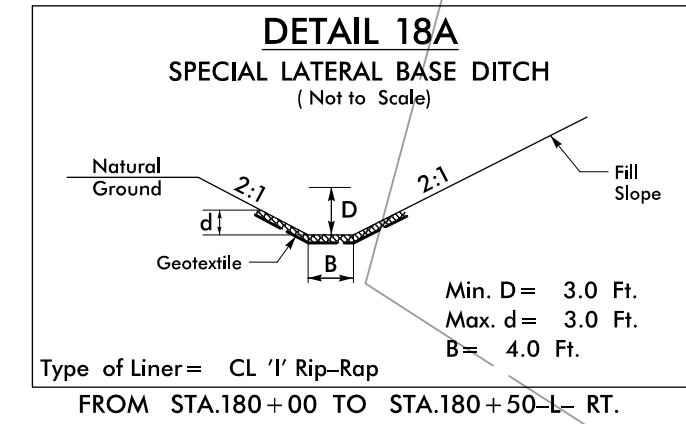
MATCH LINE STA -L- 180+00.00
MATCH TO SHEET NO. 18



PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-37/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	

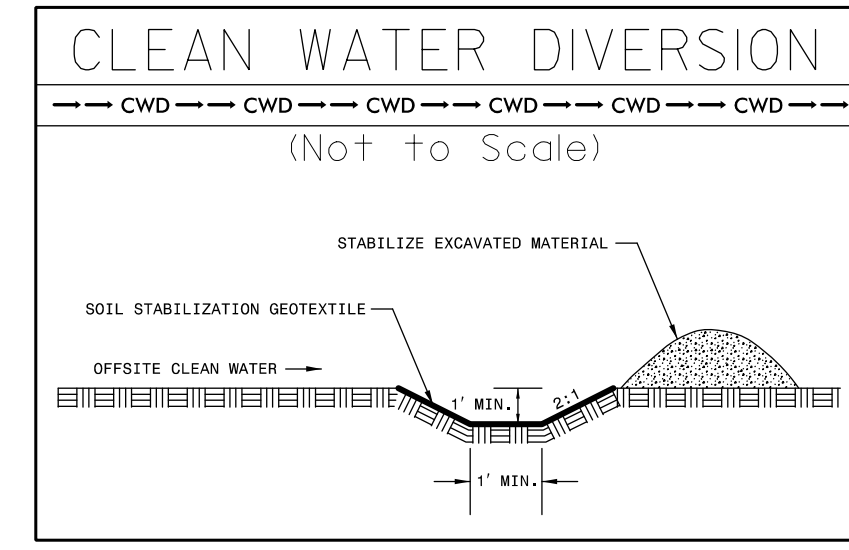
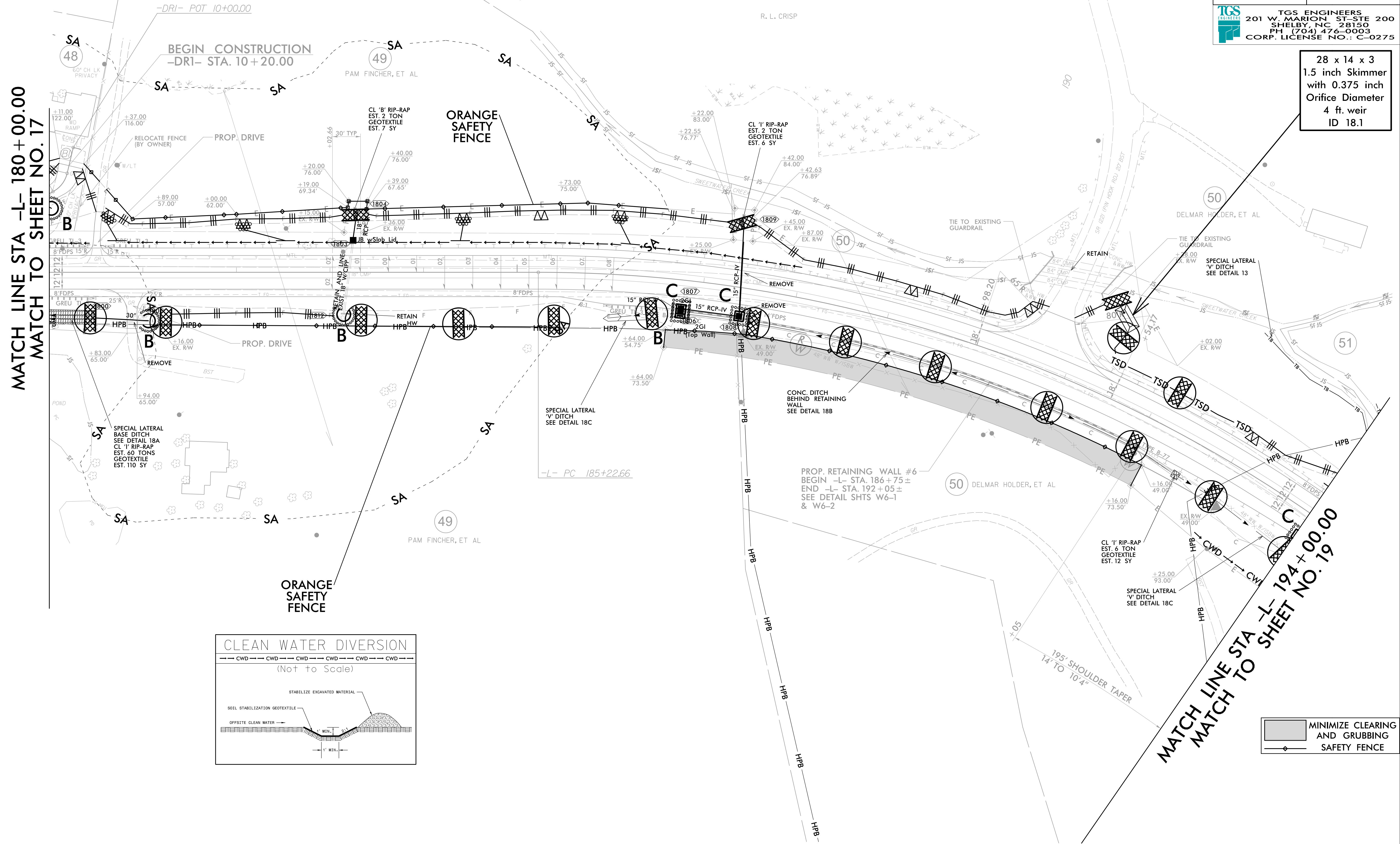


-DRI- CURVE DATA
 PI Sta 10+41.97
 $\Delta = 48^{\circ} 49' 47.4" (RT)$
 $D = 190' 59" 09.4"$
 $L = 25.57'$
 $T = 13.62'$
 $R = 30.00'$
 -DRI- PC 10+28.35
 -DRI- PT 10+53.92



MATCH LINE STA -L- 180+00.00
 MATCH TO SHEET NO.17

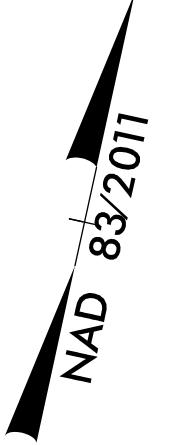
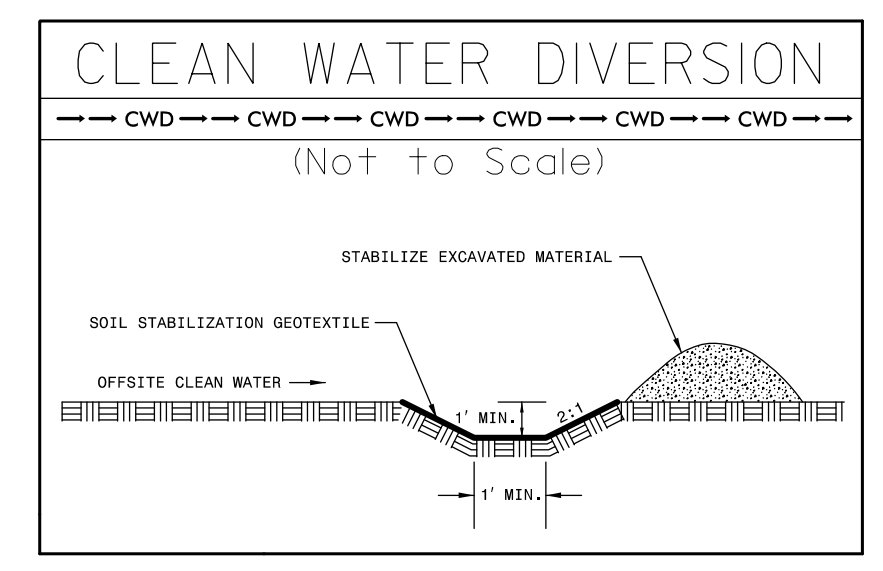
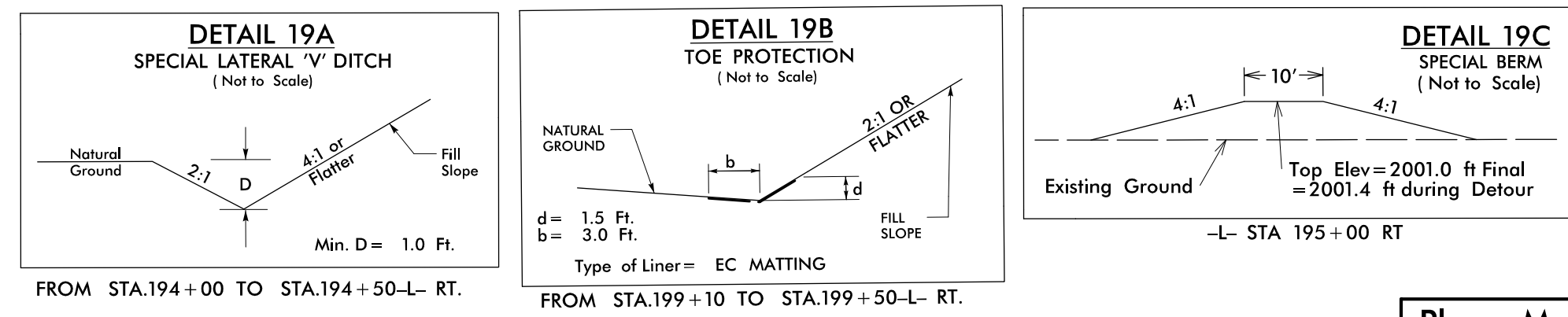
MATCH LINE STA -L- 194+00.00
 MATCH TO SHEET NO.19



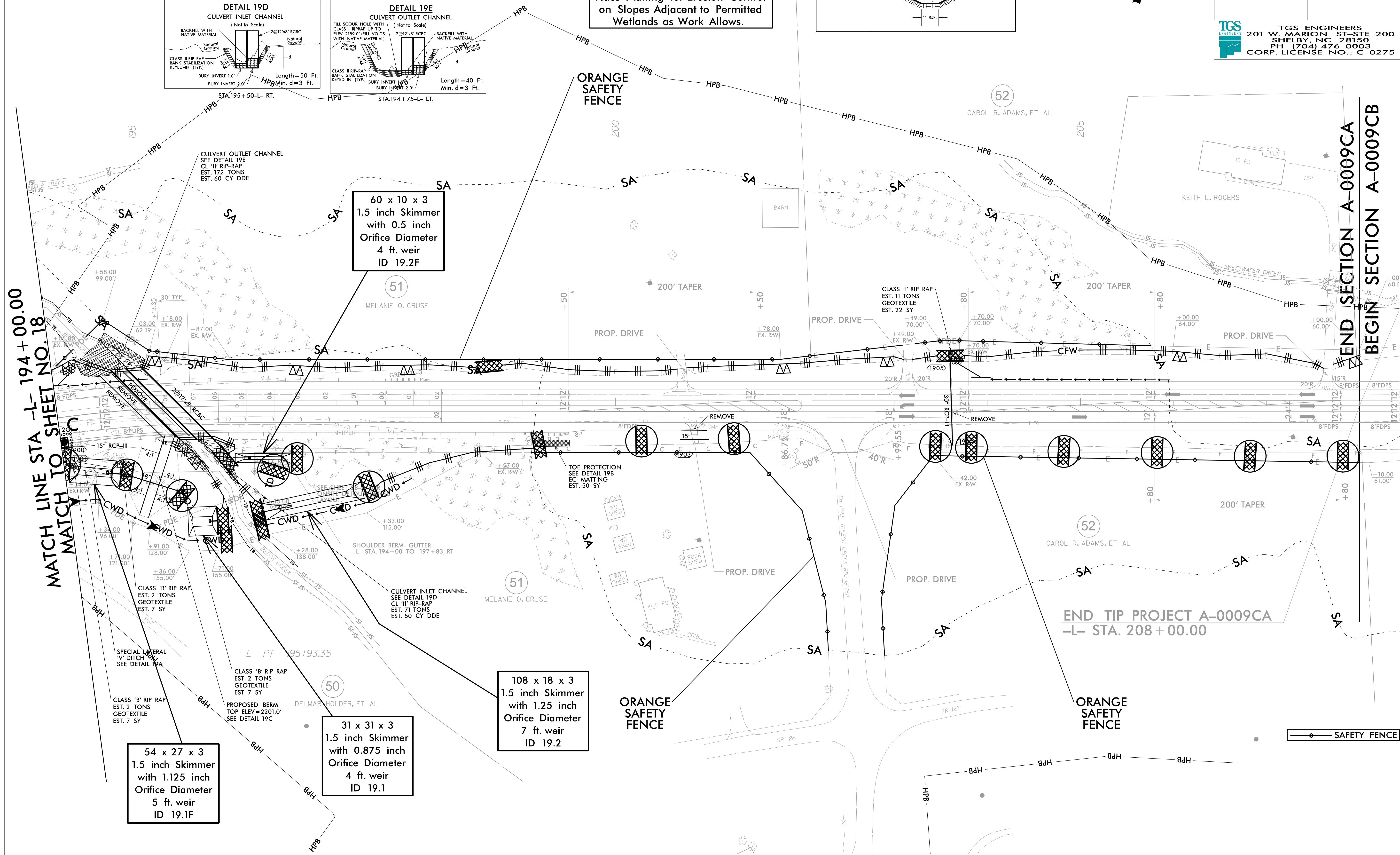
28 x 14 x 3
 1.5 inch Skimmer
 with 0.375 inch
 Orifice Diameter
 4 ft. weir
 ID 18.1


 MINIMIZE CLEARING
 AND GRUBBING
 SAFETY FENCE

PROJECT REFERENCE NO. A-0009CA	SHEET NO. EC-38/CONST.19
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	



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



MATCH LINE STA -L- 194+00.00
MATCH TO SHEET NO. 18

END SECTION A-0009CA
BEGIN SECTION A-0009CB

END TIP PROJECT A-0009CA
-L- STA. 208+00.00

54 x 27 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
5 ft. weir
ID 19.1F

31 x 31 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 19.1

108 x 18 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 19.2

60 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 19.2F

SAFETY FENCE