
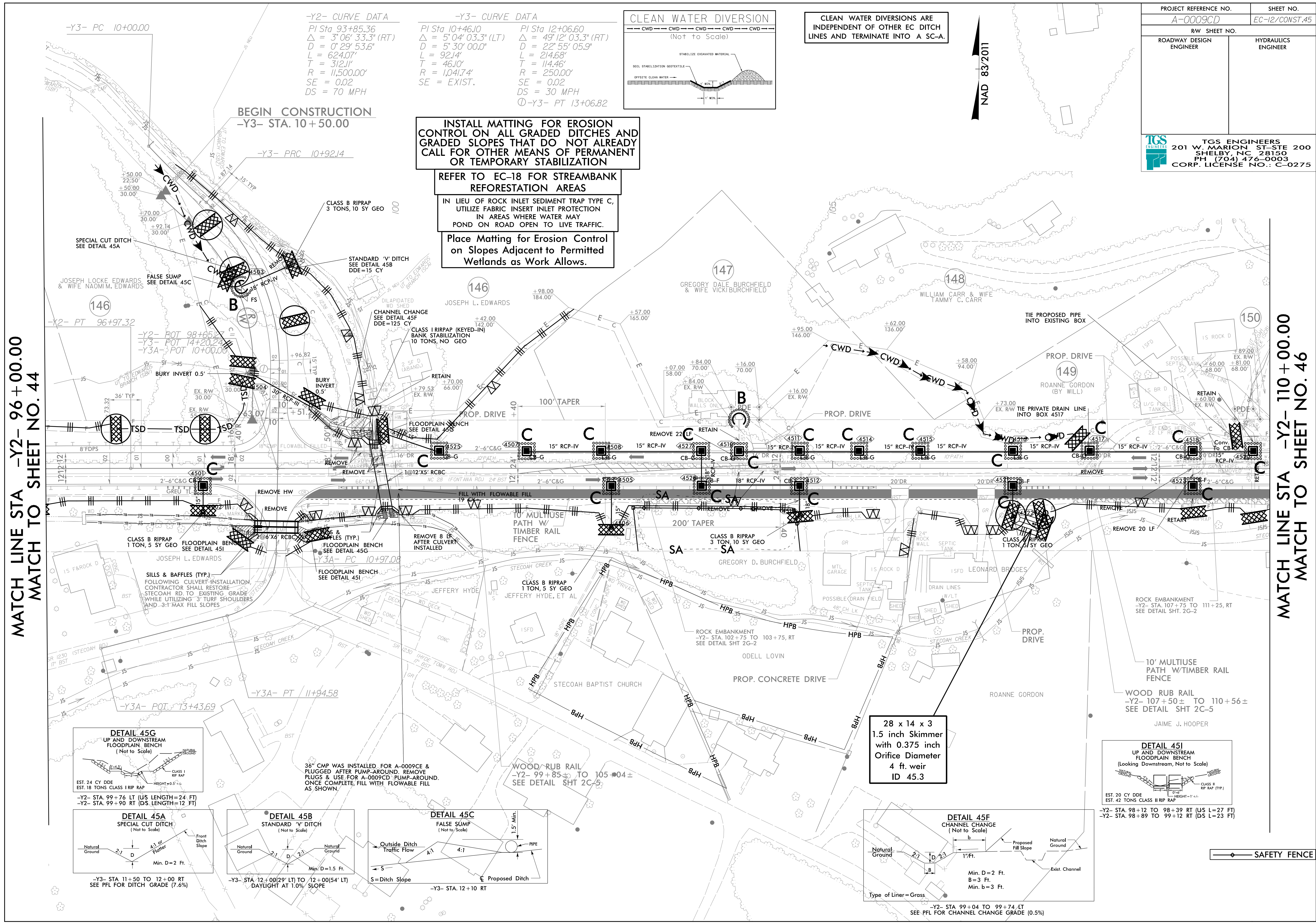


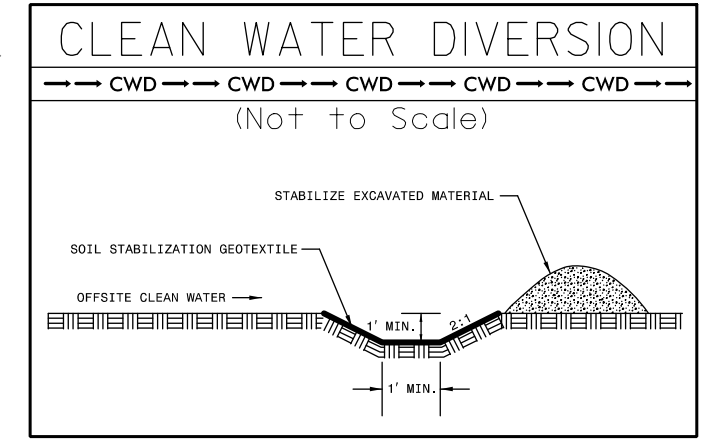
PROJECT REFERENCE NO.	SHEET NO.
A-0009CD	EC-12/CONST.45
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

MATCH LINE STA -Y2- 96+00.00  
MATCH TO SHEET NO. 44

MATCH LINE STA -Y2- 110+00.00  
MATCH TO SHEET NO. 46



-Y2- CURVE DATA		-Y3- CURVE DATA	
PI Sta 93+85.36	PI Sta 10+46.10	PI Sta 12+06.60	
$\Delta = 3^{\circ} 06' 33.3''$ (RT)	$\Delta = 5^{\circ} 04' 03.3''$ (LT)	$\Delta = 49^{\circ} 12' 03.3''$ (RT)	
$D = 0^{\circ} 29' 53.6''$	$D = 5^{\circ} 30' 00.0''$	$D = 22^{\circ} 55' 05.9''$	
$L = 624.07'$	$L = 92.14'$	$L = 214.68'$	
$T = 312.11'$	$T = 46.10'$	$T = 114.46'$	
$R = 11,500.00'$	$R = 1,041.74'$	$R = 250.00'$	
$SE = 0.02$	$SE = EXIST.$	$SE = 0.02$	
$DS = 70$ MPH	$DS = 30$ MPH	$DS = 30$ MPH	



CLEAN WATER DIVERSIONS ARE INDEPENDENT OF OTHER EC DITCH LINES AND TERMINATE INTO A SC-A.

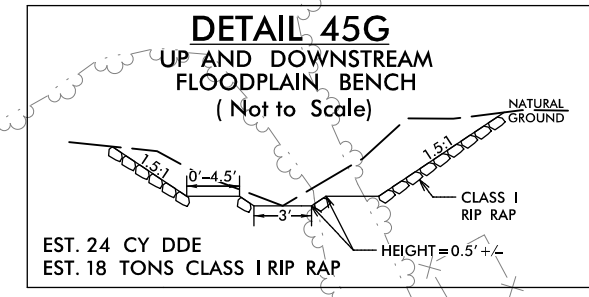
NAD 83/2011

**INSTALL MATTING FOR EROSION CONTROL ON ALL GRADED DITCHES AND GRADED SLOPES THAT DO NOT ALREADY CALL FOR OTHER MEANS OF PERMANENT OR TEMPORARY STABILIZATION**

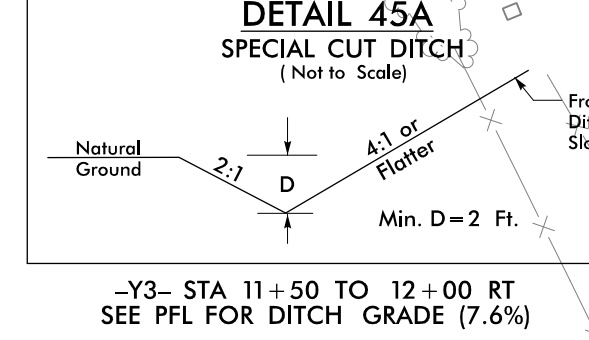
**REFER TO EC-18 FOR STREAMBANK REFORESTATION AREAS**

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

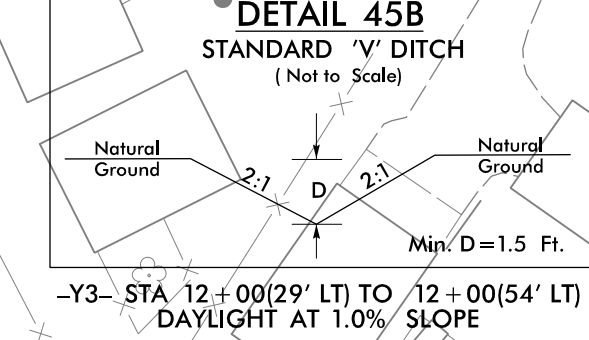
**Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.**



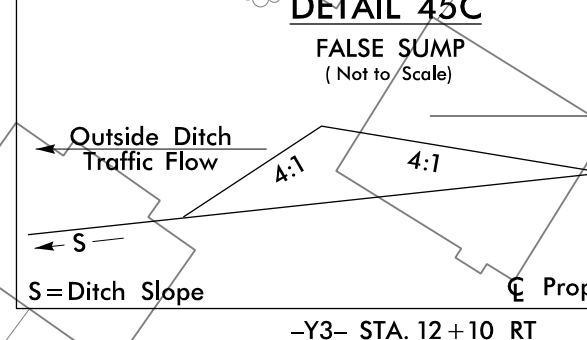
-Y2- STA. 99+76 LT (US LENGTH=24 FT)  
-Y2- STA. 99+90 RT (US LENGTH=12 FT)



-Y3- STA 11+50 TO 12+00 RT  
SEE PFL FOR DITCH GRADE (7.6%)

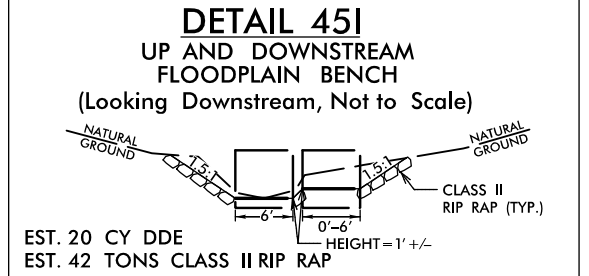


-Y3- STA 12+00(29' LT) TO 12+00(54' LT)  
DAYLIGHT AT 1.0% SLOPE

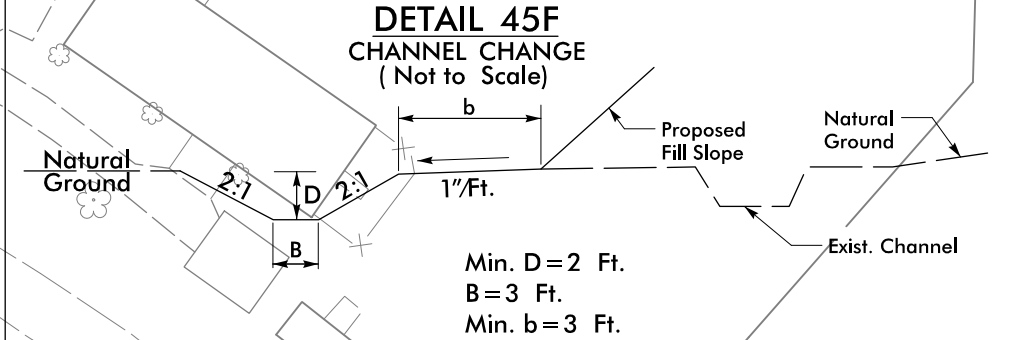


-Y3- STA. 12+10 RT

28 x 14 x 3  
1.5 inch Skimmer  
with 0.375 inch  
Orifice Diameter  
4 ft. weir  
ID 45.3



-Y2- STA. 98+12 TO 98+39 RT (US L=27 FT)  
-Y2- STA. 98+89 TO 99+12 RT (DS L=23 FT)



-Y2- STA 99+04 TO 99+74 LT  
SEE PFL FOR CHANNEL CHANGE GRADE (0.5%)

SAFETY FENCE