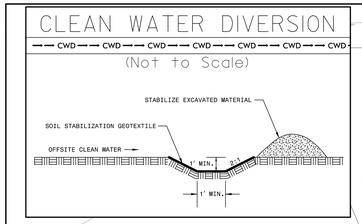
DocuSign Envelope ID: B5E4FAA0-38D4-4083-890F-23D8D85755A7

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	EC-24/CONST.25
R/W 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

CLEAN WATER DIVERSION

(Not to Scale)

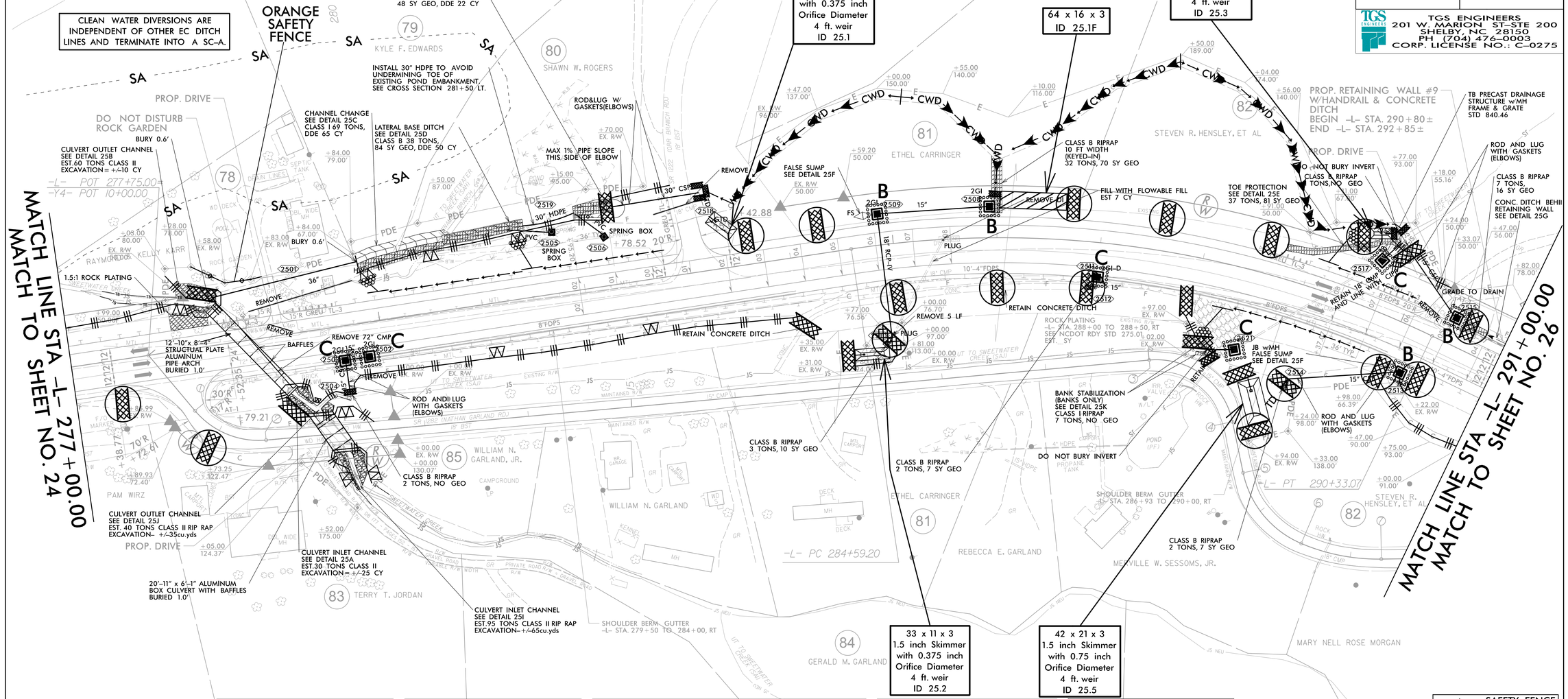


CLEAN WATER DIVERSIONS ARE INDEPENDENT OF OTHER EC DITCH LINES AND TERMINATE INTO A SC-A.

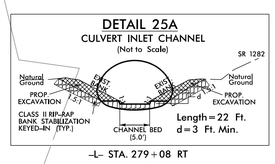
-Y4- CURVE DATA

PI Sta 20+66.90	PI Sta 22+09.11	PI Sta 22+91.14
Δ = 83° 23' 00.0" (RT)	Δ = 55° 15' 43.9" (LT)	Δ = 23° 50' 55.2" (LT)
D = 76° 23' 39.7"	D = 60° 18' 40.8"	D = 30° 09' 20.4"
L = 109.15'	L = 91.63'	L = 79.09'
T = 66.80'	T = 49.73'	T = 40.12'
R = 75.00'	R = 95.00'	R = 190.00'

③ -Y4- PC 20+00.10
④ -Y4- PT 21+09.25
⑤ -Y4- PC 21+59.38
⑥ -Y4- PCC 22+51.01
⑦ -Y4- PT 23+30.10

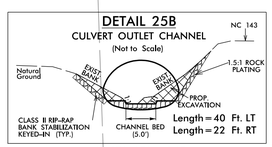


DETAIL 25A
CULVERT INLET CHANNEL
(Not to Scale)



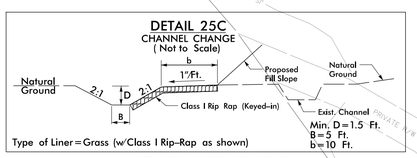
-L- STA. 279+08 RT

DETAIL 25B
CULVERT OUTLET CHANNEL
(Not to Scale)



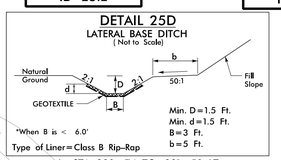
-L- STA. 278+41 LT

DETAIL 25C
CHANNEL CHANGE
(Not to Scale)



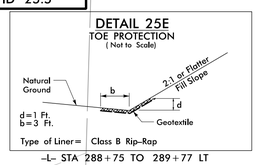
-L- STA 279+87 TO 280+72 LT
SEE PFL FOR CHANNEL CHANGE GRADE

DETAIL 25D
LATERAL BASE DITCH
(Not to Scale)



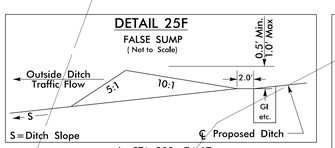
-L- STA 280+74 TO 281+50 LT
SEE PFL FOR DITCH GRADE

DETAIL 25E
TOE PROTECTION
(Not to Scale)



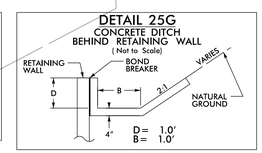
-L- STA 288+75 TO 289+77 LT

DETAIL 25F
FALSE SUMP
(Not to Scale)



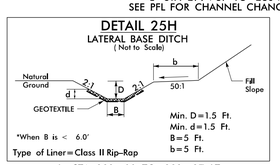
-L- STA. 289+74 LT
-L- STA. 290+08 RT (USE 4:1 FOR FRONT & BACK SLOPES)

DETAIL 25G
CONCRETE DITCH
BEHIND RETAINING WALL
(Not to Scale)



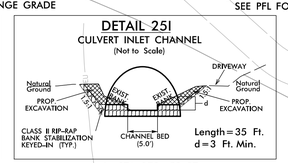
-L- STA. 290+80 TO 291+00 LT
(SEE WALL ENVELOPES FOR DITCH GRADE)

DETAIL 25H
LATERAL BASE DITCH
(Not to Scale)



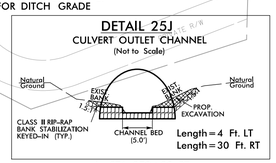
-L- STA 282+00 TO 282+37 LT
SEE PFL FOR DITCH GRADE

DETAIL 25I
CULVERT INLET CHANNEL
(Not to Scale)



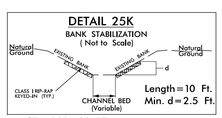
-L- STA. 279+50 RT

DETAIL 25J
CULVERT OUTLET CHANNEL
(Not to Scale)



-L- STA. 279+30 RT

DETAIL 25K
BANK STABILIZATION
(Not to Scale)



-L- STA 288+23 RT

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.

REFER TO EC-34 FOR STREAMBANK REFORESTATION AREAS

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