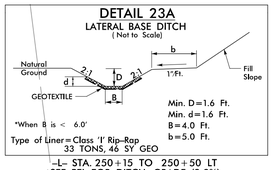
DocuSign Envelope ID: B5E4FAA0-38D4-4083-890F-23D8D85755A7

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	EC-22/CONST.23
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

NAD 83/2011

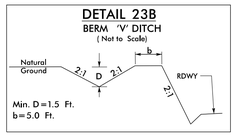
DETAIL 23A
LATERAL BASE DITCH
(Not to Scale)



Type of Liner=Class 'I' Rip-Rap
33 TONS, 46 SY GEO

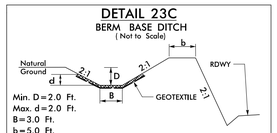
-L- STA. 250+15 TO 250+50 LT
SEE PFL FOR DITCH GRADE (3.9%)

DETAIL 23B
BERM 'V' DITCH
(Not to Scale)



-L- STA. 251+90 TO 252+35 RT
SEE PFL FOR DITCH GRADE (13.5%)

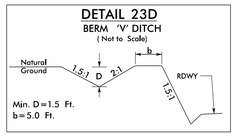
DETAIL 23C
BERM BASE DITCH
(Not to Scale)



Type of Liner=Class I Rip-Rap
170 TONS, 240 SY GEO

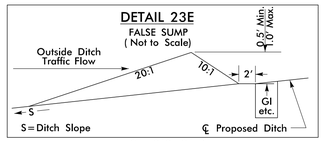
-L- STA. 252+50 TO 254+00 RT
SEE PFL FOR DITCH GRADE (4.5%)

DETAIL 23D
BERM 'V' DITCH
(Not to Scale)



-L- STA. 258+50 TO 258+68 RT
-L- STA. 258+68 TO 259+00 RT
SEE PFL FOR DITCH GRADES

DETAIL 23E
FALSE SUMP
(Not to Scale)



-L- STA. 252+36 RT
-L- STA. 253+86 RT
-L- STA. 255+36 RT
-L- STA. 256+69 RT
-L- STA. 258+55 RT
-L- STA. 259+87 RT
-L- STA. 261+94 RT

DETAIL 23F
SPECIAL CUT DITCH
(Not to Scale)

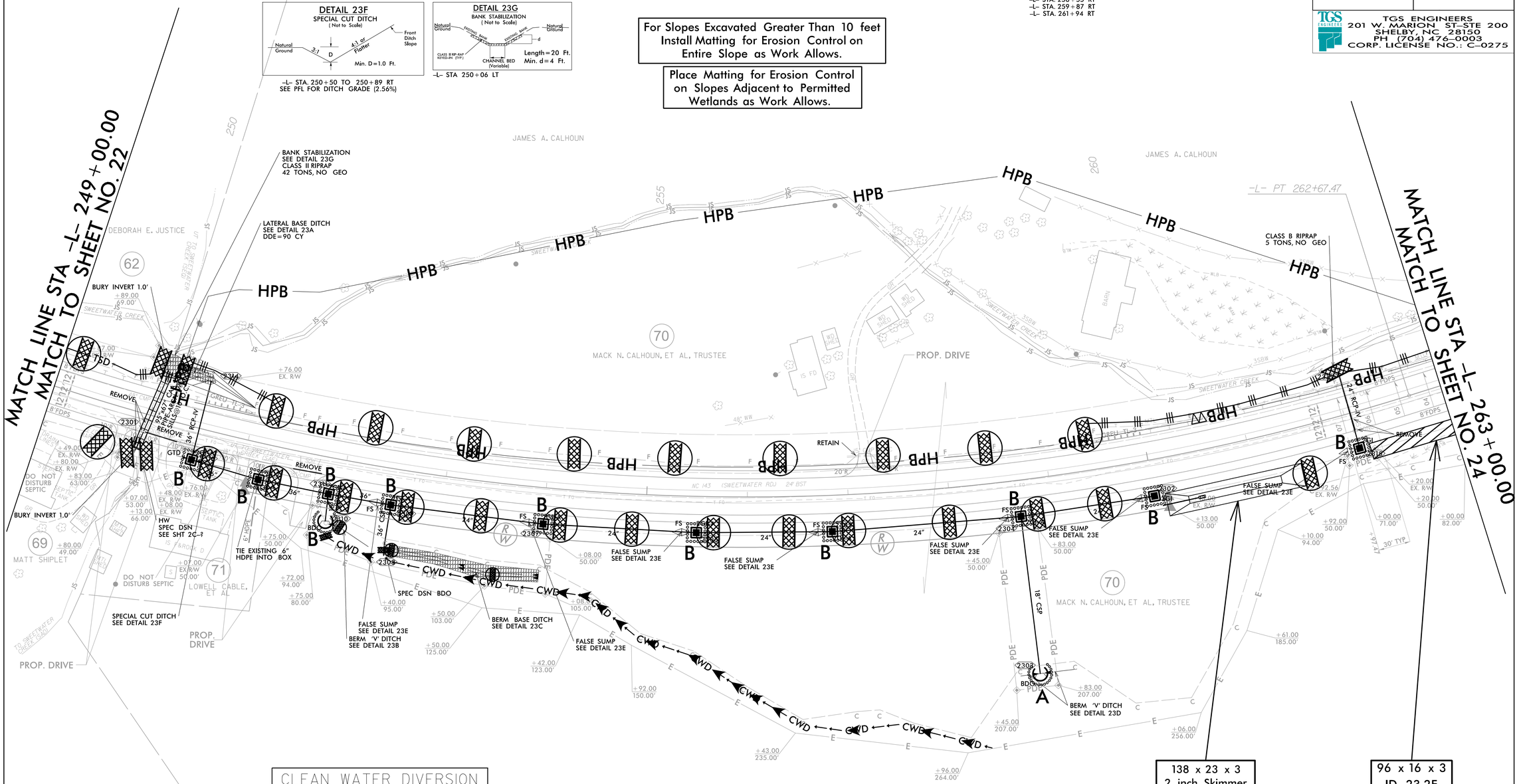
-L- STA. 250+50 TO 250+89 RT
SEE PFL FOR DITCH GRADE (2.56%)

DETAIL 23G
BANK STABILIZATION
(Not to Scale)

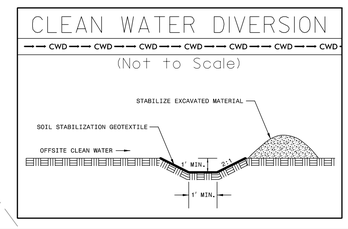
-L- STA 250+06 LT

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.



CLEAN WATER DIVERSION
(Not to Scale)



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