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PROJECT REFERENCE NO.	SHEET NO.
A-0009CC	EC-18/CONST.39
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

-Y2- CURVE DATA

PI Sta 11+99.45	PI Sta 18+27.84	PI Sta 25+91.41
Δ = 19° 44' 48.4" (LT)	Δ = 38° 45' 19.5" (RT)	Δ = 15° 17' 06.5" (RT)
D = 5° 00' 00.0"	D = 12° 52' 31.6"	D = 4° 46' 28.7"
L = 394.94'	L = 301.00'	L = 320.13'
T = 199.45'	T = 156.51'	T = 161.02'
R = 1,145.92'	R = 445.00'	R = 1,200.00'
SE = 0.08	SE = 0.08	SE = 0.08
DS = 55 MPH	DS = 40 MPH	DS = 60 MPH

① -Y2- PC 24+30.38

-L- CURVE DATA

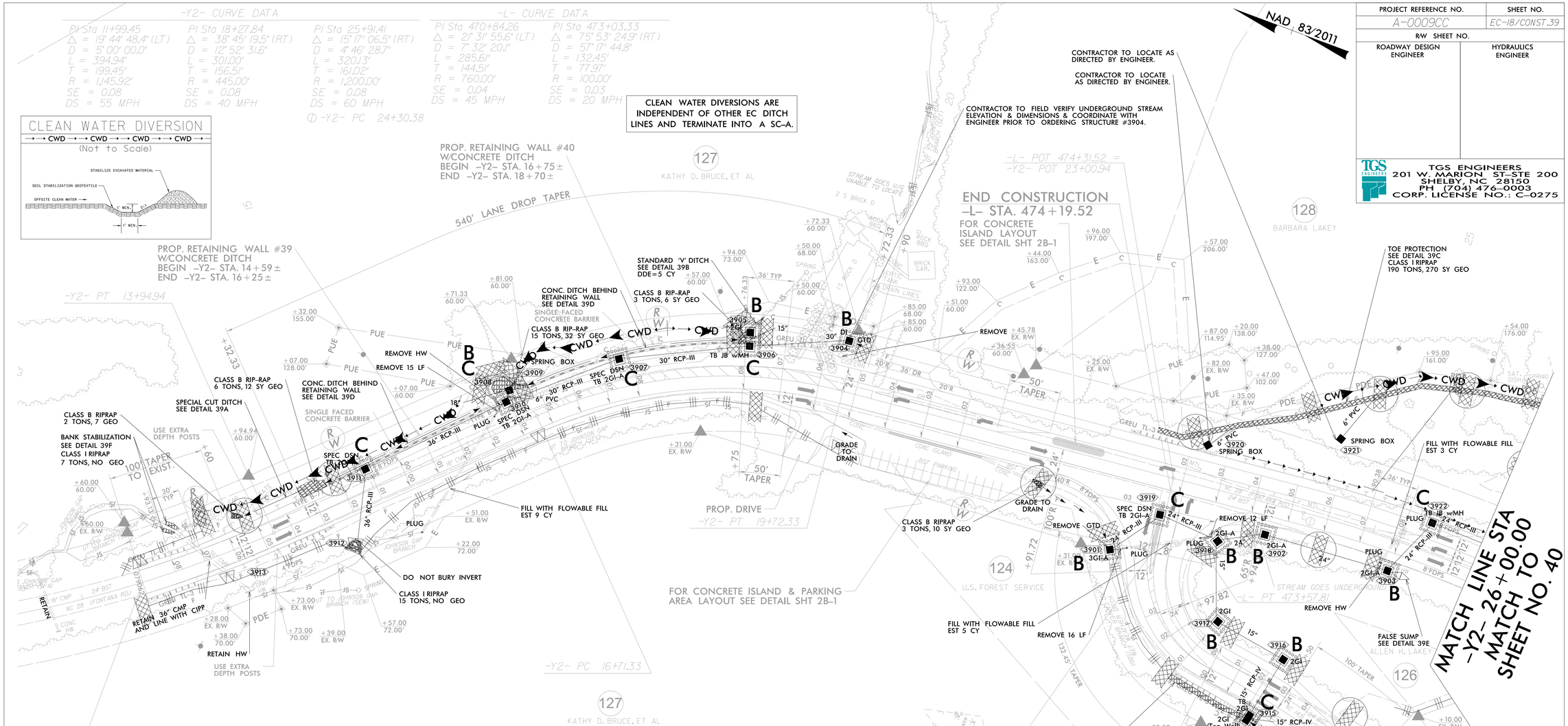
PI Sta 470+84.26	PI Sta 473+03.33
Δ = 21° 31' 55.6" (LT)	Δ = 75° 53' 24.9" (RT)
D = 7° 32' 20.1"	D = 57° 17' 44.8"
L = 285.61'	L = 132.45'
T = 144.51'	T = 77.97'
R = 760.00'	R = 100.00'
SE = 0.04	SE = 0.03
DS = 45 MPH	DS = 20 MPH

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

CONTRACTOR TO LOCATE AS DIRECTED BY ENGINEER.

CONTRACTOR TO LOCATE AS DIRECTED BY ENGINEER.

CONTRACTOR TO FIELD VERIFY UNDERGROUND STREAM ELEVATION & DIMENSIONS & COORDINATE WITH ENGINEER PRIOR TO ORDERING STRUCTURE #3904.



BEGIN CONSTRUCTION
-Y2- STA. 12+60.00

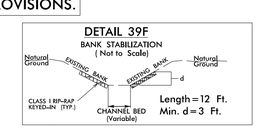
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

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

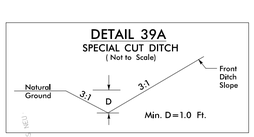
SEEDING AND PLANTING ON US FOREST SERVICE (USFS) PROPERTY WILL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER ON NCDOT RIGHT OF WAY AND ADJOINING USFS PROPERTY. REFER TO THE EROSION CONTROL SPECIAL PROVISIONS.

PROP. RETAINING WALL #25
W/CONCRETE DITCH
BEGIN -L- STA. 468+75.00
END -L- STA. 471+75.00

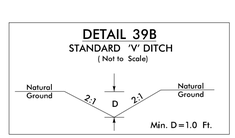
MINIMIZE CLEARING AND GRUBBING
SAFETY FENCE



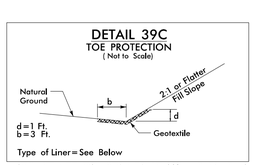
-Y2- STA 13+06 LT



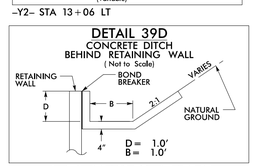
-Y2- STA. 13+73 TO 14+50 LT
SEE PFL FOR DITCH GRADE (9.0%)



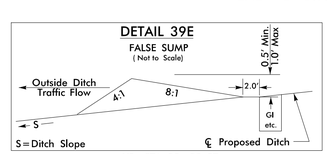
-Y2- STA 18+80 TO 18+91 LT
SEE PFL FOR CHANNEL CHANGE GRADE (17.5%)



-L- STA. 471+75 TO 472+50 LT (Class B Rip-Rap)
-Y2- STA. 22+75 TO 26+45 LT (Class I Rip-Rap)



-L- STA. 470+00 TO 471+75 LT
-Y2- STA. 14+59 TO 16+25 LT
-Y2- STA. 16+75 TO 18+70 LT
(SEE WALL ENVELOPES FOR DITCH GRADE)



-Y2- STA. 25+39 RT