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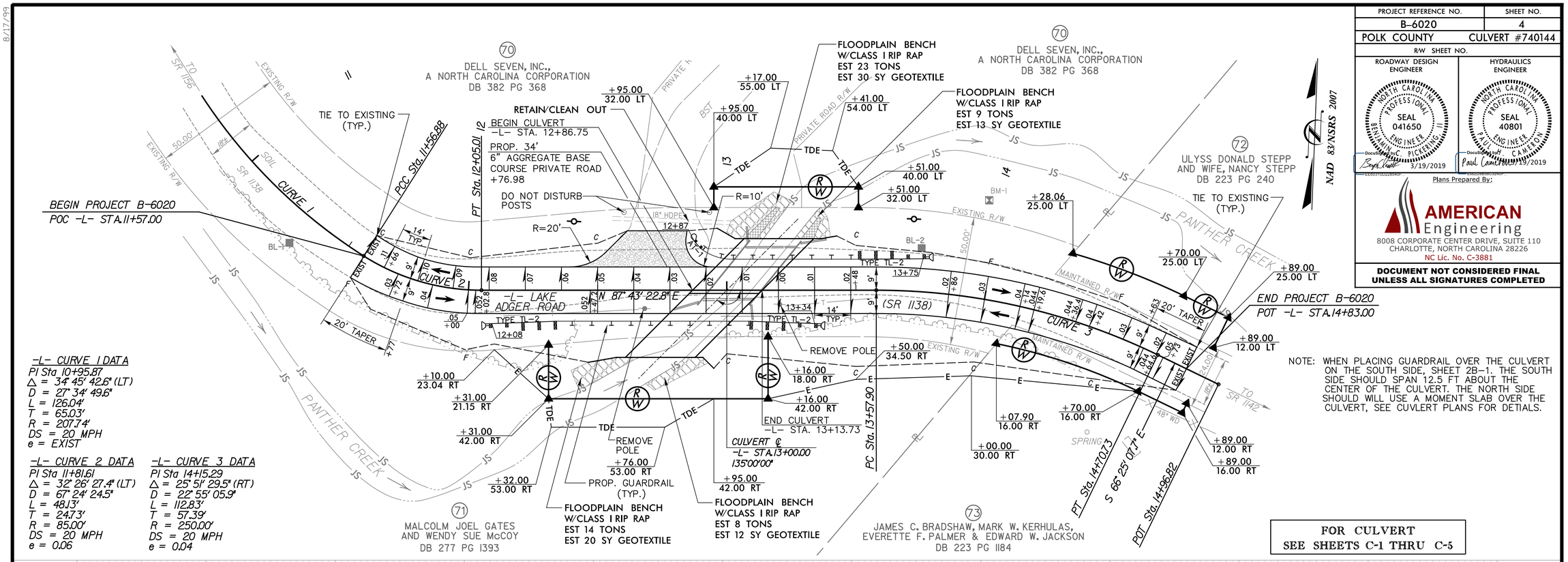
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-6020	4
POLK COUNTY	CULVERT #740144
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
SEAL 041650 BENJAMIN C. PICKERING 3/19/2019	SEAL 40801 PAUL T. CAMERON 3/19/2019

Plans Prepared By:

AMERICAN Engineering
8008 CORPORATE CENTER DRIVE, SUITE 110
CHARLOTTE, NORTH CAROLINA 28226
NC Lic. No. C-3881

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

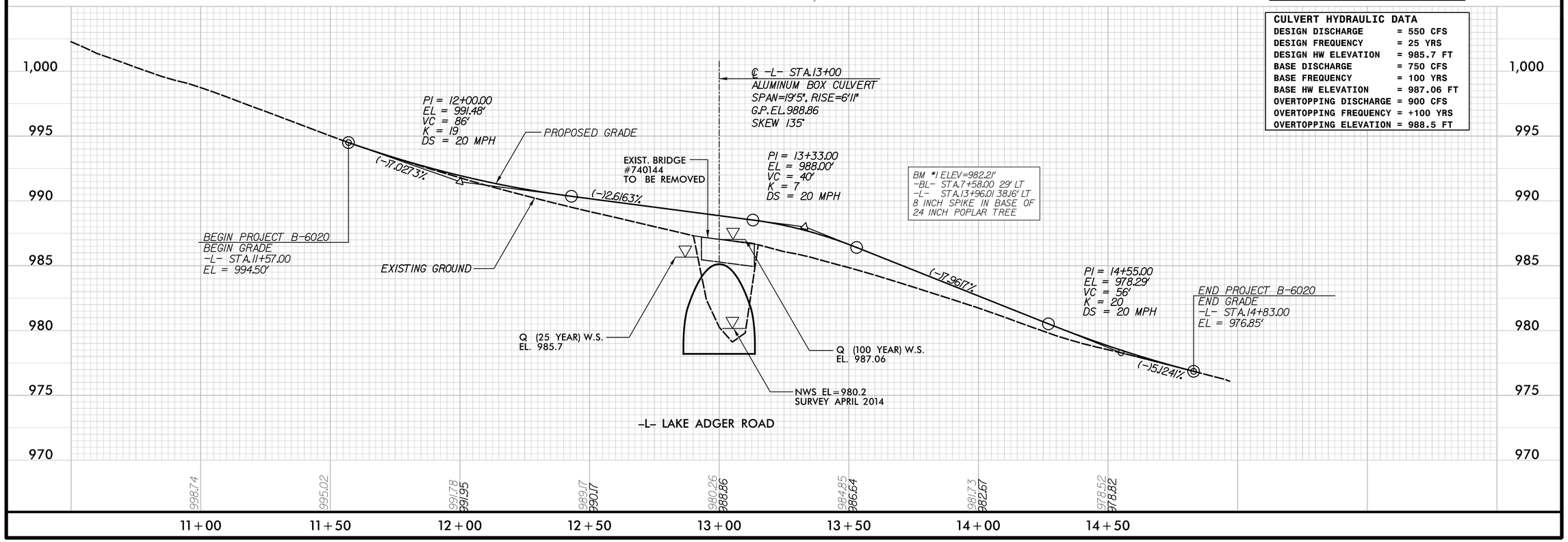


-L- CURVE 1 DATA
PI Sta 10+95.87
Δ = 34° 45' 42.6" (LT)
D = 27° 34' 49.6"
L = 126.04'
T = 65.03'
R = 207.74'
DS = 20 MPH
e = EXIST

-L- CURVE 2 DATA
PI Sta 11+81.61
Δ = 32° 26' 27.4" (LT)
D = 67° 24' 24.5"
L = 48.13'
T = 24.73'
R = 85.00'
DS = 20 MPH
e = 0.06

-L- CURVE 3 DATA
PI Sta 14+15.29
Δ = 25° 51' 29.5" (RT)
D = 22° 55' 05.9"
L = 112.83'
T = 57.39'
R = 250.00'
DS = 20 MPH
e = 0.04

FOR CULVERT SEE SHEETS C-1 THRU C-5

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 550 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 985.7 FT
BASE DISCHARGE	= 750 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 987.06 FT
OVERTOPPING DISCHARGE	= 900 CFS
OVERTOPPING FREQUENCY	= +100 YRS
OVERTOPPING ELEVATION	= 988.5 FT