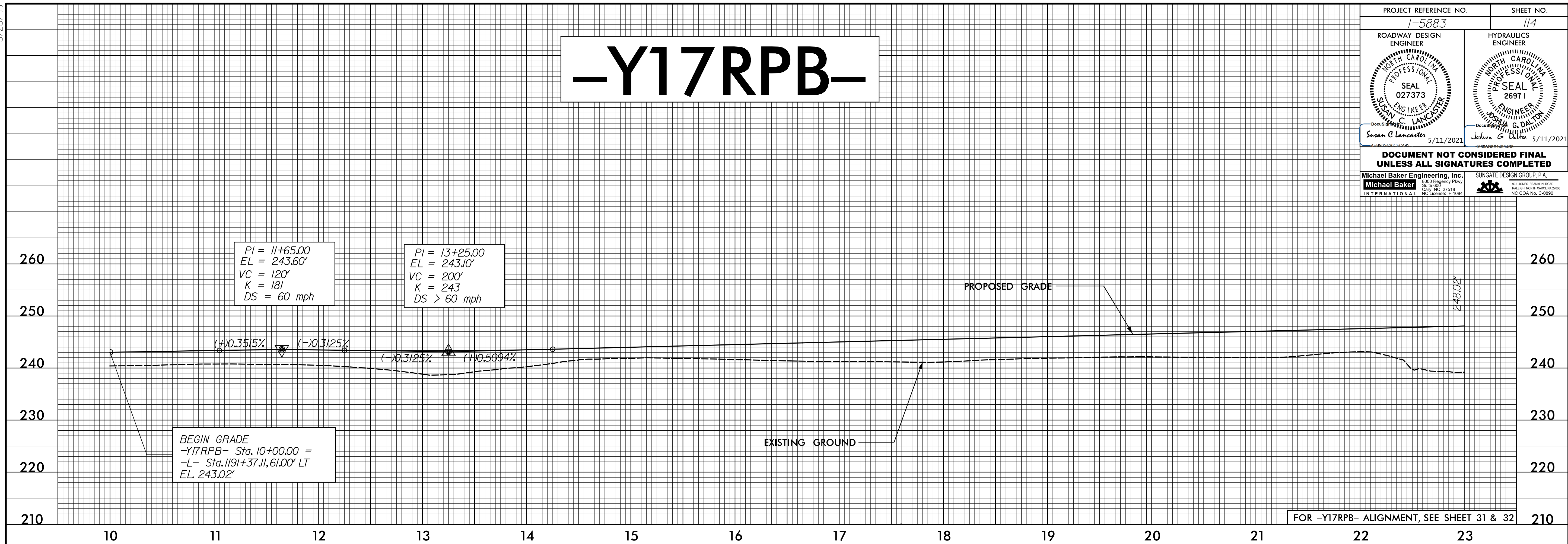


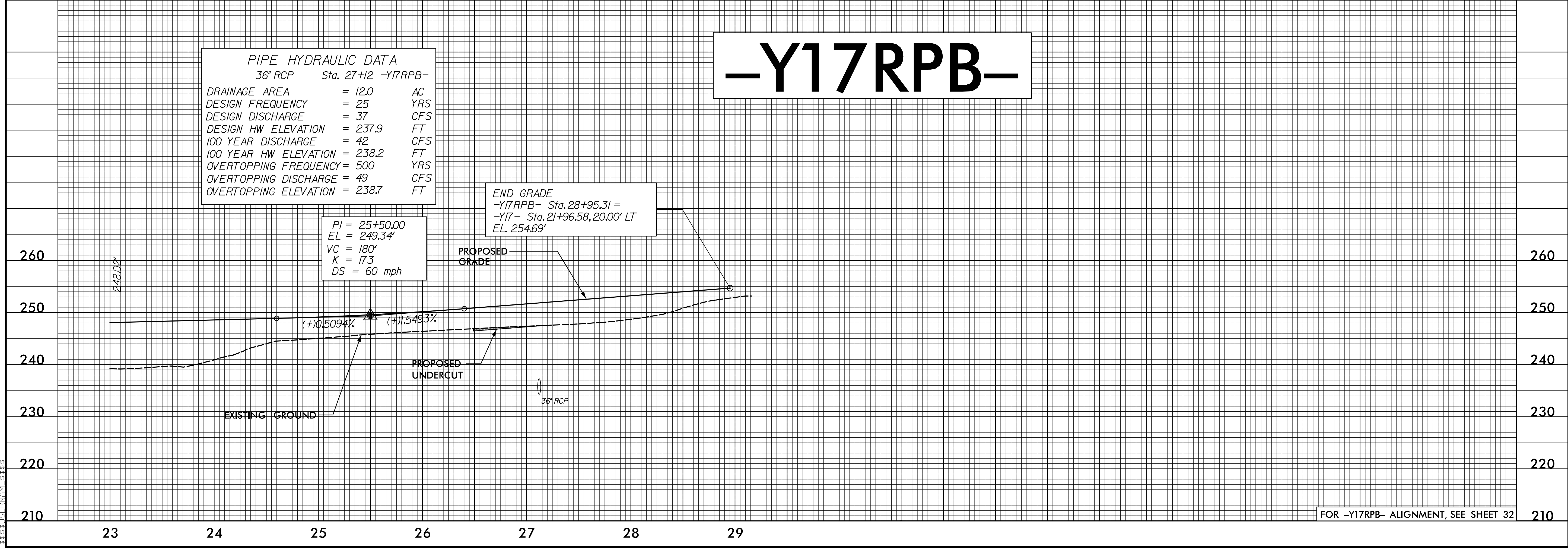
5/28/21

PROJECT REFERENCE NO. 1-5883	SHEET NO. 114
ROADWAY DESIGN ENGINEER SUSAN C. LANCASTER SEAL 027373 5/11/2021	HYDRAULICS ENGINEER JOSHUA G. WILSON SEAL 2697 5/11/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 8000 Regency Parkway Suite 600 Cary, NC 27519 NC License: E-11884	SUNGATE DESIGN GROUP, P.A. 605 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27609 NC CCA No. C-2980

-Y17RPB-



-Y17RPB-



PIPE HYDRAULIC DATA
 36" RCP Sta. 27+12 -Y17RPB-
 DRAINAGE AREA = 12.0 AC
 DESIGN FREQUENCY = 25 YRS
 DESIGN DISCHARGE = 37 CFS
 DESIGN HW ELEVATION = 237.9 FT
 100 YEAR DISCHARGE = 42 CFS
 100 YEAR HW ELEVATION = 238.2 FT
 OVERTOPPING FREQUENCY = 500 YRS
 OVERTOPPING DISCHARGE = 49 CFS
 OVERTOPPING ELEVATION = 238.7 FT

PI = 25+50.00
 EL = 249.34'
 VC = 180'
 K = 173
 DS = 60 mph

END GRADE
 -Y17RPB- Sta. 28+95.31 =
 -Y17- Sta. 21+96.58, 20.00' LT
 EL. 254.69'

12-MAR-2021 09:08
C:\Users\jwilson\Documents\1-5883\1-5883-Road\p1_3_Sheets_Y.dgn

FOR -Y17RPB- ALIGNMENT, SEE SHEET 32