

5/28/99

WETHERILL ENGINEERING
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

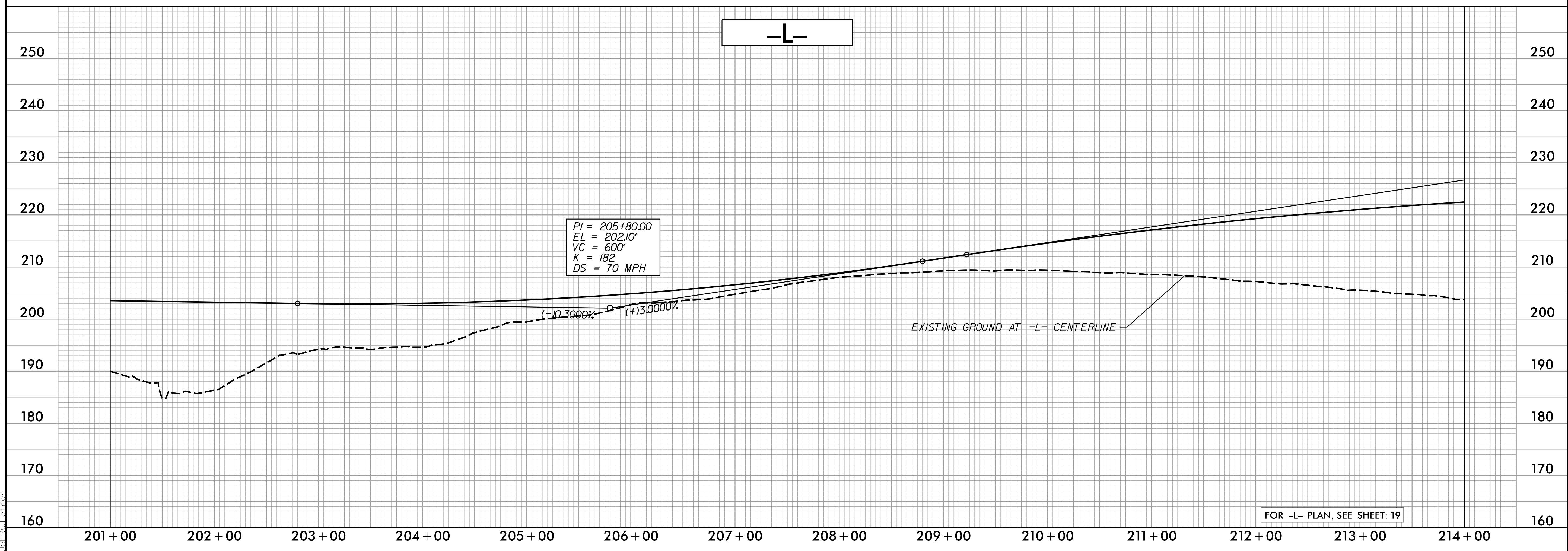
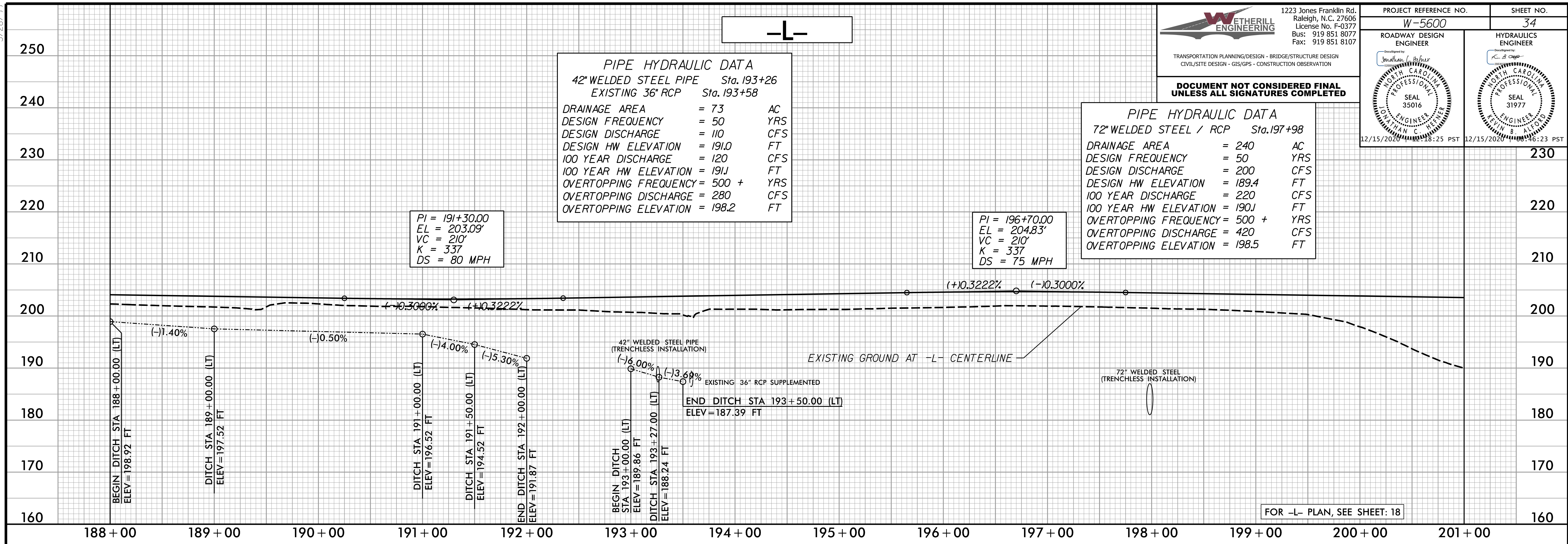
PROJECT REFERENCE NO. W-5600	SHEET NO. 34
ROADWAY DESIGN ENGINEER <i>Jonathan C. Heiser</i> SEAL 35016 12/15/2020 10:28:25 PST	HYDRAULICS ENGINEER <i>K. B. Carr</i> SEAL 31977 12/15/2020 10:26:23 PST

PIPE HYDRAULIC DATA
 42" WELDED STEEL PIPE Sta. 193+26
 EXISTING 36" RCP Sta. 193+58

DRAINAGE AREA = 73 AC
 DESIGN FREQUENCY = 50 YRS
 DESIGN DISCHARGE = 110 CFS
 DESIGN HW ELEVATION = 191.0 FT
 100 YEAR DISCHARGE = 120 CFS
 100 YEAR HW ELEVATION = 191.1 FT
 OVERTOPPING FREQUENCY = 500 + YRS
 OVERTOPPING DISCHARGE = 280 CFS
 OVERTOPPING ELEVATION = 198.2 FT

PIPE HYDRAULIC DATA
 72" WELDED STEEL / RCP Sta. 197+98

DRAINAGE AREA = 240 AC
 DESIGN FREQUENCY = 50 YRS
 DESIGN DISCHARGE = 200 CFS
 DESIGN HW ELEVATION = 189.4 FT
 100 YEAR DISCHARGE = 220 CFS
 100 YEAR HW ELEVATION = 190.1 FT
 OVERTOPPING FREQUENCY = 500 + YRS
 OVERTOPPING DISCHARGE = 420 CFS
 OVERTOPPING ELEVATION = 198.5 FT



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