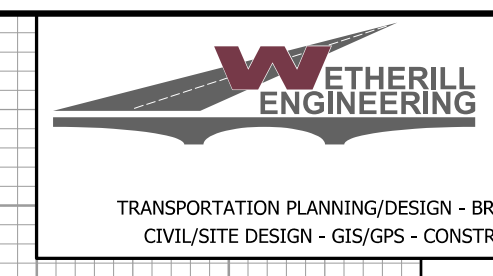


5/28/99



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
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PROJECT REFERENCE NO. R-4705		SHEET NO. 48
ROADWAY DESIGN ENGINEER 4/7/2022	HYDRAULICS ENGINEER 4/7/2022	

PIPE HYDRAULIC DATA
2 @ 24" RCP IV Sta.115+05

DRAINAGE AREA = 42 AC
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 28 CFS
DESIGN HW ELEVATION = 34.0 FT
100 YEAR DISCHARGE = 32 CFS
100 YEAR HW ELEVATION = 34.3 FT
OVERTOPPING FREQUENCY = 500+ YRS
OVERTOPPING DISCHARGE = 54 CFS
OVERTOPPING ELEVATION = 36.2 FT

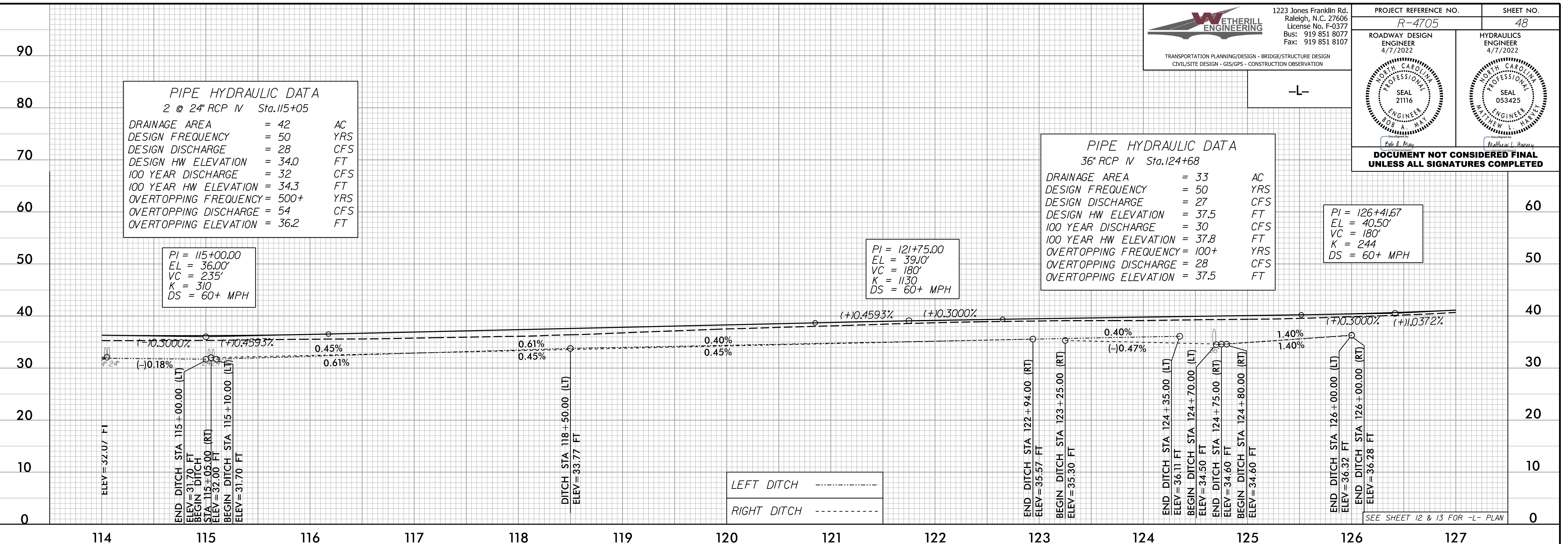
PIPE HYDRAULIC DATA
36" RCP IV Sta.124+68

DRAINAGE AREA = 33 AC
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 27 CFS
DESIGN HW ELEVATION = 37.5 FT
100 YEAR DISCHARGE = 30 CFS
100 YEAR HW ELEVATION = 37.8 FT
OVERTOPPING FREQUENCY = 100+ YRS
OVERTOPPING DISCHARGE = 28 CFS
OVERTOPPING ELEVATION = 37.5 FT

PI = 126+41.67
EL = 40.50'
VC = 180'
K = 244
DS = 60+ MPH

PI = 115+00.00
EL = 36.00'
VC = 235'
K = 310
DS = 60+ MPH

PI = 121+75.00
EL = 39.10'
VC = 180'
K = 1130
DS = 60+ MPH



SEE SHEET 12 & 13 FOR -L- PLAN

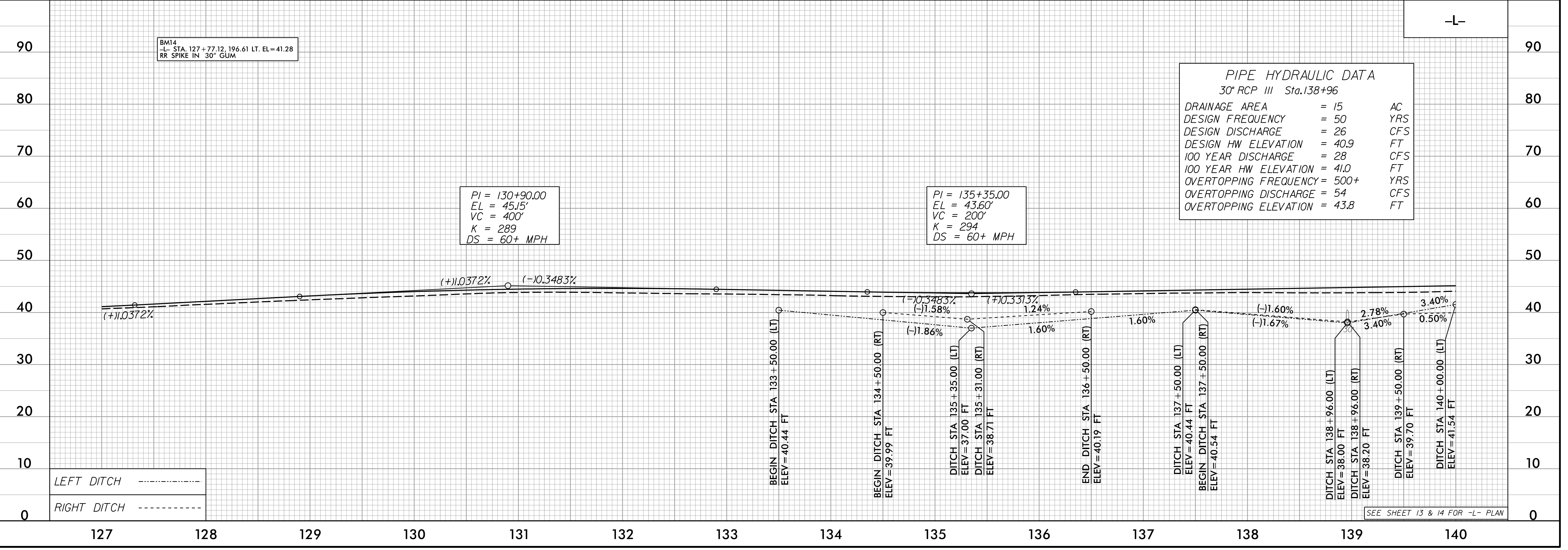
BMI4
-L- STA. 127+77.12, 196.61 LT. EL=41.28
RR SPIKE IN 30" GUM

PI = 130+90.00
EL = 45.15'
VC = 400'
K = 289
DS = 60+ MPH

PI = 135+35.00
EL = 43.60'
VC = 200'
K = 294
DS = 60+ MPH

PIPE HYDRAULIC DATA
30" RCP III Sta.138+96

DRAINAGE AREA = 15 AC
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 26 CFS
DESIGN HW ELEVATION = 40.9 FT
100 YEAR DISCHARGE = 28 CFS
100 YEAR HW ELEVATION = 41.0 FT
OVERTOPPING FREQUENCY = 500+ YRS
OVERTOPPING DISCHARGE = 54 CFS
OVERTOPPING ELEVATION = 43.8 FT



SEE SHEET 13 & 14 FOR -L- PLAN

3/7/2022 R4705_Rdy_psh_48_PFL.dgn
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