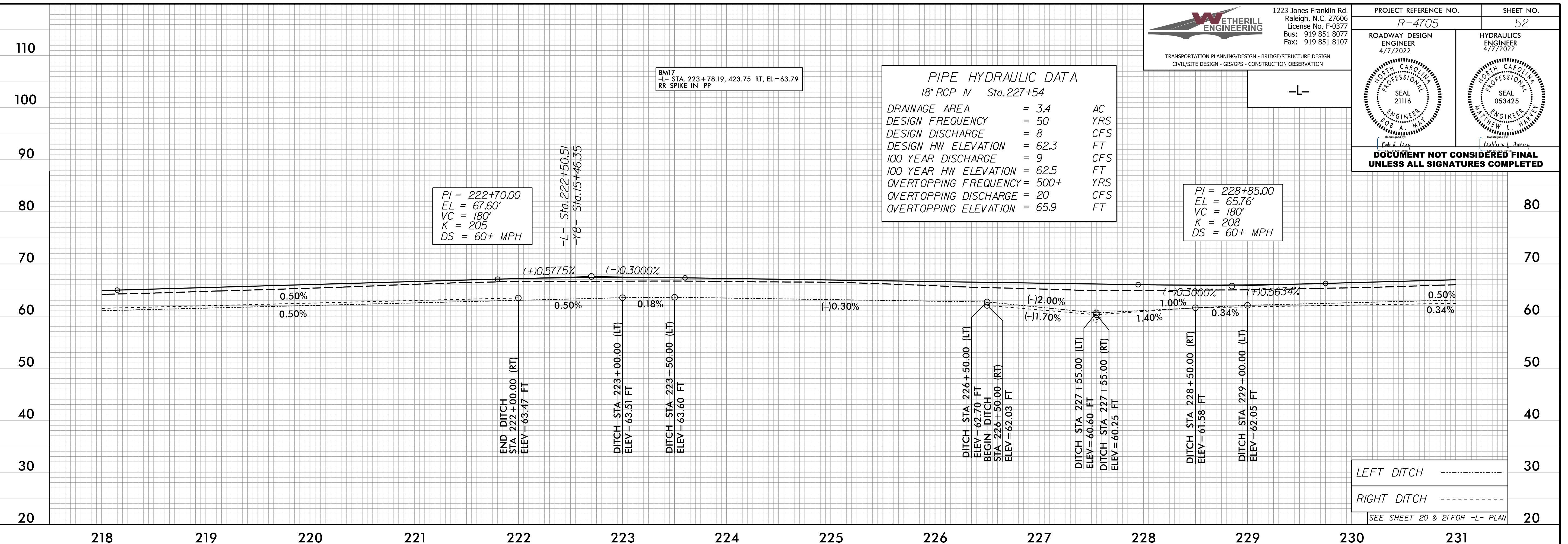


5/28/22

WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

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

| | |
|--|-------------------------------------|
| PROJECT REFERENCE NO. R-4705 | SHEET NO. 52 |
| ROADWAY DESIGN ENGINEER 4/7/2022 | HYDRAULICS ENGINEER 4/7/2022 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



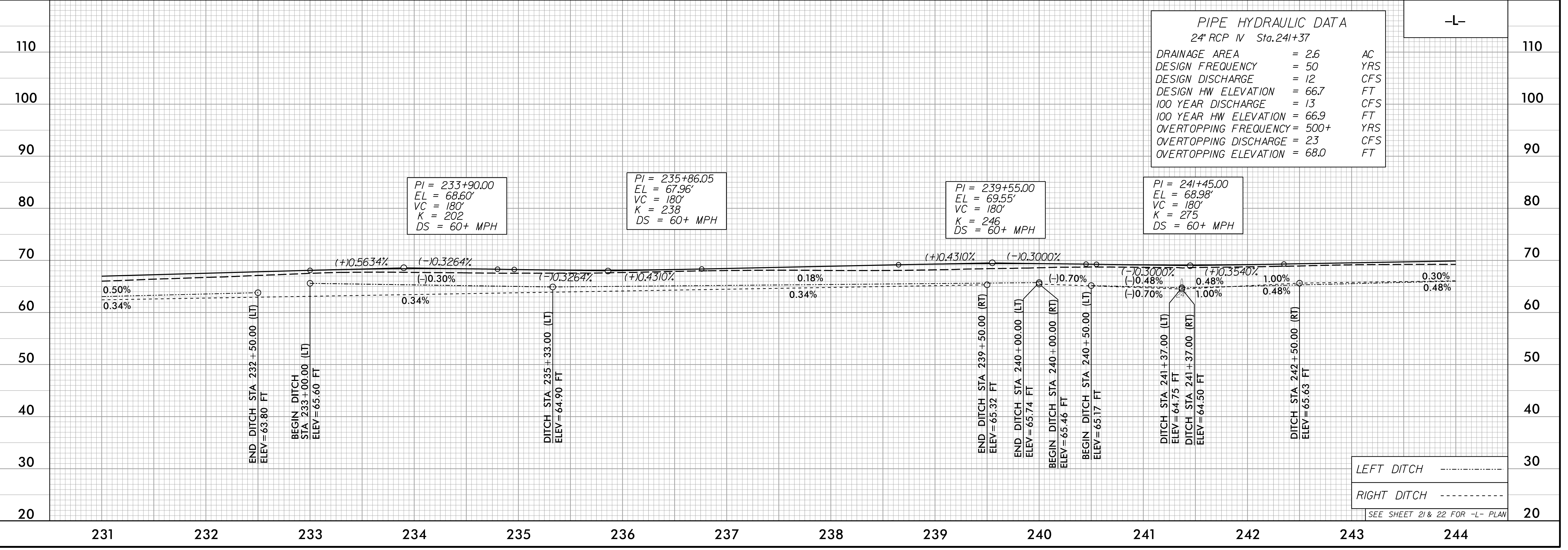
PIPE HYDRAULIC DATA
 18" RCP IV Sta.227+54

| | | |
|-----------------------|--------|-----|
| DRAINAGE AREA | = 3.4 | AC |
| DESIGN FREQUENCY | = 50 | YRS |
| DESIGN DISCHARGE | = 8 | CFS |
| DESIGN HW ELEVATION | = 62.3 | FT |
| 100 YEAR DISCHARGE | = 9 | CFS |
| 100 YEAR HW ELEVATION | = 62.5 | FT |
| OVERTOPPING FREQUENCY | = 500+ | YRS |
| OVERTOPPING DISCHARGE | = 20 | CFS |
| OVERTOPPING ELEVATION | = 65.9 | FT |

LEFT DITCH -----

RIGHT DITCH -----

SEE SHEET 20 & 21 FOR -L- PLAN



PIPE HYDRAULIC DATA
 24" RCP IV Sta.241+37

| | | |
|-----------------------|--------|-----|
| DRAINAGE AREA | = 2.6 | AC |
| DESIGN FREQUENCY | = 50 | YRS |
| DESIGN DISCHARGE | = 12 | CFS |
| DESIGN HW ELEVATION | = 66.7 | FT |
| 100 YEAR DISCHARGE | = 13 | CFS |
| 100 YEAR HW ELEVATION | = 66.9 | FT |
| OVERTOPPING FREQUENCY | = 500+ | YRS |
| OVERTOPPING DISCHARGE | = 23 | CFS |
| OVERTOPPING ELEVATION | = 68.0 | FT |

LEFT DITCH -----

RIGHT DITCH -----

SEE SHEET 21 & 22 FOR -L- PLAN

3/7/2022 R4705_Rdy_psh_52_PFL.dgn