



5/14/99

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| PROJECT REFERENCE NO. R-5751 | SHEET NO. 14 |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER  |

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

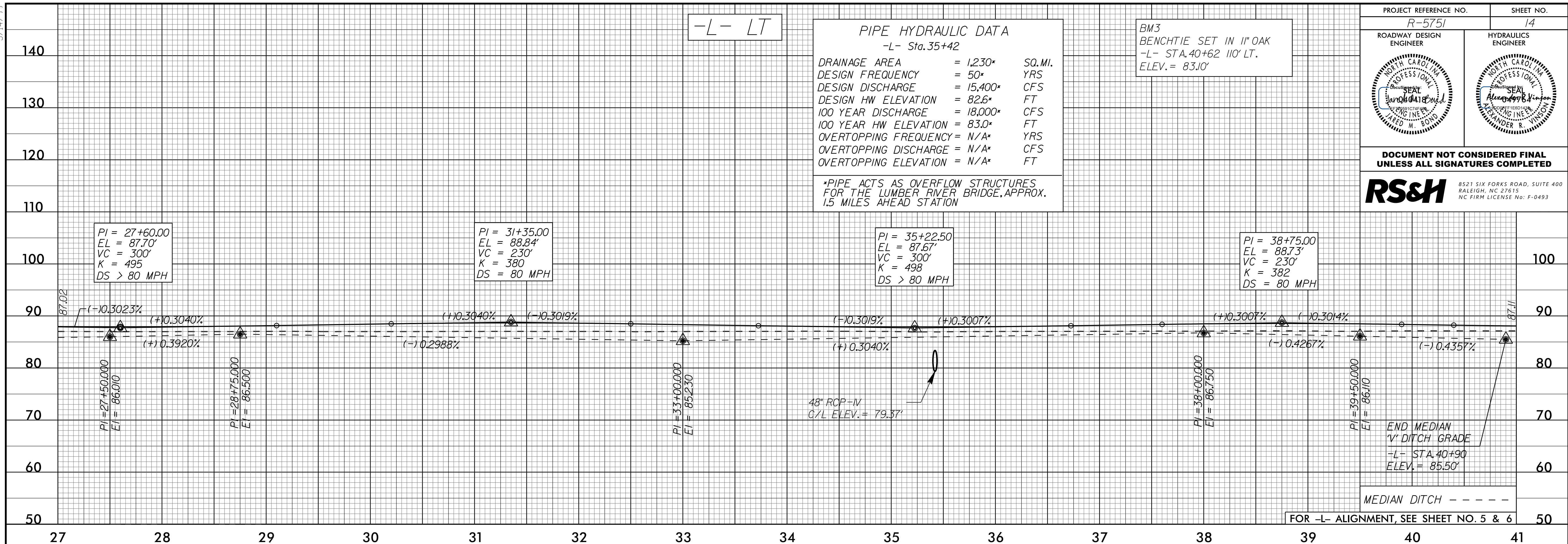
RS&H 8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

PIPE HYDRAULIC DATA
-L- Sta.35+42

| | | |
|-----------------------|-----------|--------|
| DRAINAGE AREA | = 1,230* | SQ.MI. |
| DESIGN FREQUENCY | = 50* | YRS |
| DESIGN DISCHARGE | = 15,400* | CFS |
| DESIGN HW ELEVATION | = 82.6* | FT |
| 100 YEAR DISCHARGE | = 18,000* | CFS |
| 100 YEAR HW ELEVATION | = 83.0* | FT |
| OVERTOPPING FREQUENCY | = N/A* | YRS |
| OVERTOPPING DISCHARGE | = N/A* | CFS |
| OVERTOPPING ELEVATION | = N/A* | FT |

BM3
BENCHMARK SET IN 1" OAK
-L- STA.40+62 110' LT.
ELEV. = 83.0'

*PIPE ACTS AS OVERFLOW STRUCTURES
FOR THE LUMBER RIVER BRIDGE, APPROX.
1.5 MILES AHEAD STATION

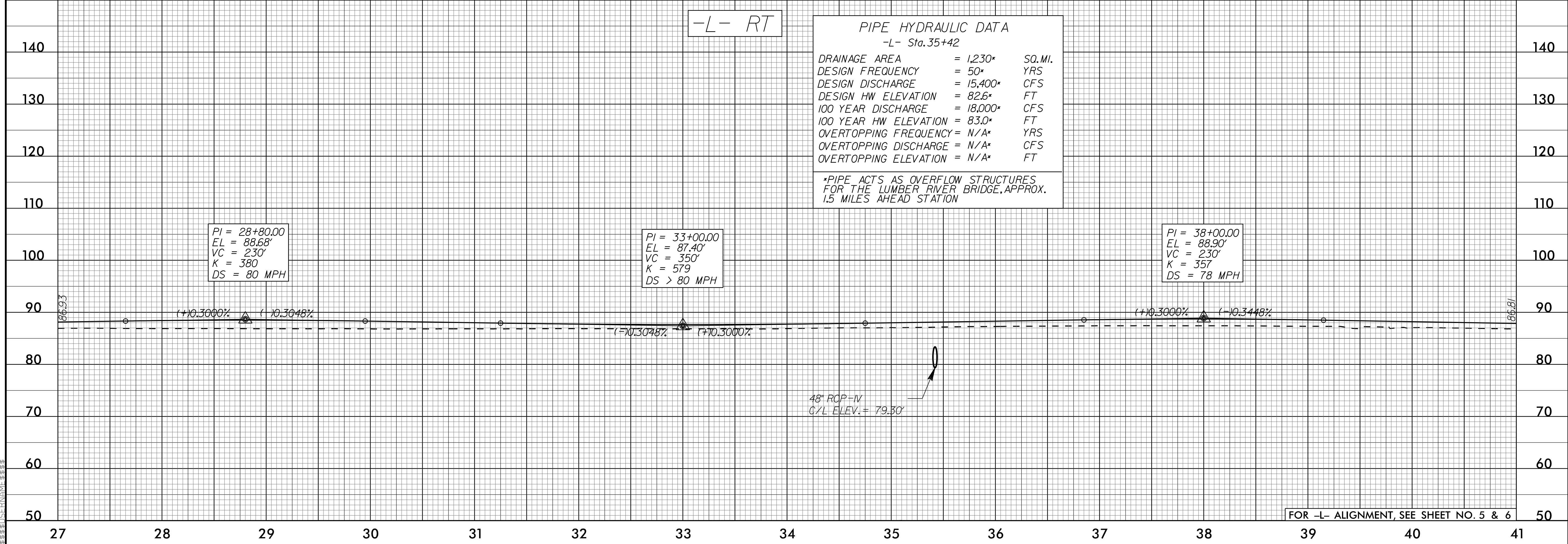


FOR -L- ALIGNMENT, SEE SHEET NO. 5 & 6

PIPE HYDRAULIC DATA
-L- Sta.35+42

| | | |
|-----------------------|-----------|--------|
| DRAINAGE AREA | = 1,230* | SQ.MI. |
| DESIGN FREQUENCY | = 50* | YRS |
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FOR THE LUMBER RIVER BRIDGE, APPROX.
1.5 MILES AHEAD STATION



FOR -L- ALIGNMENT, SEE SHEET NO. 5 & 6

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