| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| B-3530 | 5 |

ROADWAY DESIGN
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 026453 ENGINEER NEIL J. DEAN 10/21/2004

HYDRAULICS
NORTH CAROLINA PROFESSIONAL SEAL 025498 ENGINEER JOHN DAVID REHDER NICHOLS 10/21/2004

Prepared in the Office of:
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Raleigh, NC 27607
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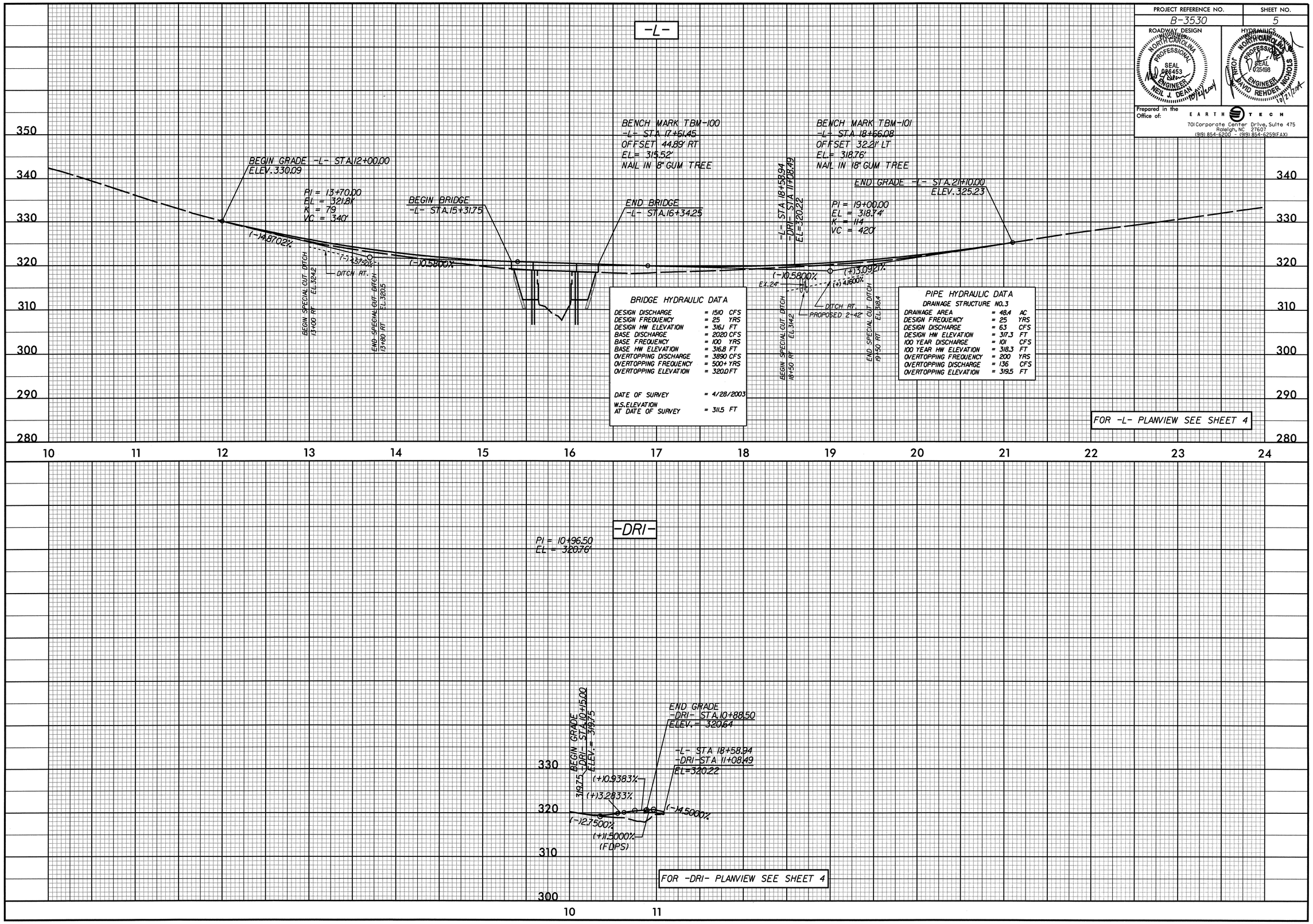


BRIDGE HYDRAULIC DATA

| | | |
|---|---|---|
| DESIGN DISCHARGE | = 1510 | CFS |
| DESIGN FREQUENCY | = 25 | YRS |
| DESIGN HW ELEVATION | = 316.1 | FT |
| BASE DISCHARGE | = 2020 | CFS |
| BASE FREQUENCY | = 100 | YRS |
| BASE HW ELEVATION | = 316.8 | FT |
| OVERTOPPING DISCHARGE | = 3890 | CFS |
| OVERTOPPING FREQUENCY | = 500+ | YRS |
| OVERTOPPING ELEVATION | = 320.0 | FT |
| DATE OF SURVEY | = 4/28/2003 | |
| W.S. ELEVATION AT DATE OF SURVEY | = 311.5 | FT |

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.3

| | | |
|---|---|---|
| DRAINAGE AREA | = 48.4 | AC |
| DESIGN FREQUENCY | = 25 | YRS |
| DESIGN DISCHARGE | = 63 | CFS |
| DESIGN HW ELEVATION | = 317.3 | FT |
| 100 YEAR DISCHARGE | = 101 | CFS |
| 100 YEAR HW ELEVATION | = 318.3 | FT |
| OVERTOPPING FREQUENCY | = 200 | YRS |
| OVERTOPPING DISCHARGE | = 136 | CFS |
| OVERTOPPING ELEVATION | = 319.5 | FT |

FOR -L- PLANVIEW SEE SHEET 4




FOR -DRI- PLANVIEW SEE SHEET 4