

6/09/09

**DITCH LEGEND**  
 LEFT DITCH - - - - -  
 RIGHT DITCH - - - - -

**METRIC**

5 0 10

CONST. REV. \_\_\_\_\_  
 R / W REV. \_\_\_\_\_

PROJECT REFERENCE NO. U-2734  
 ROADWAY DESIGN ENGINEER  
 HYDRAULICS ENGINEER

20754  
 2-26-09  
 GARY R. LOVBRING  
 ENGINEER

20754  
 2-26-09  
 T. STEPHENS  
 ENGINEER

TGS Engineers  
 975 Walnut Street, Suite 141  
 Cary, NC 27511

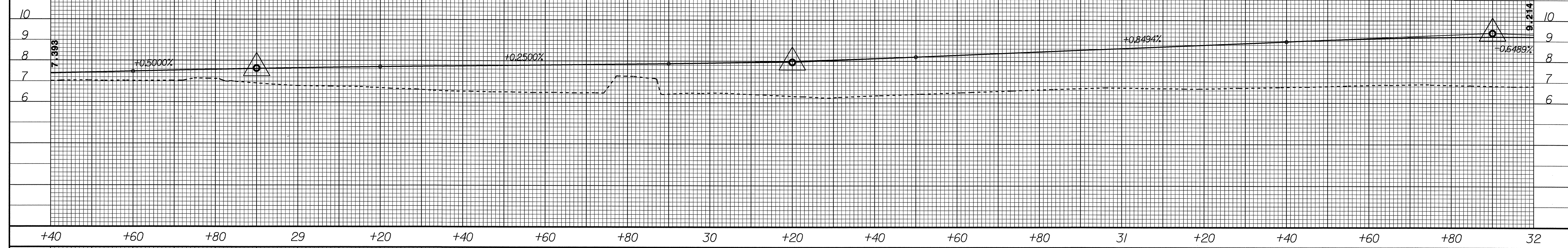
-L-

BM #93 -BL- 24+63.800 26.3m LEFT EL = 8.608m  
 RR SPIKE SET IN A 12" PINE  
 N = 55,878 E = 717,627

PI = 28+90.000  
 EL = 7.630 m  
 VC = 60 m  
 K = 240

PI = 30+20.000  
 EL = 7.955 m  
 VC = 60 m  
 K = 100

PI = 31+90.000  
 EL = 9.399 m  
 VC = 100 m  
 K = 67



-L-

**PIPE HYDRAULIC DATA**  
 DRAINAGE STRUCTURE NO. 7L

DRAINAGE AREA = 15.4 HA  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 1.85 CMS  
 DESIGN HW ELEVATION = 8.36 M  
 100 YEAR DISCHARGE = 2.15 CMS  
 100 YEAR HW ELEVATION = 8.43 M  
 OVERTOPPING FREQUENCY = 150+ YRS  
 OVERTOPPING DISCHARGE = 2.5 CMS  
 OVERTOPPING ELEVATION = 8.8 M

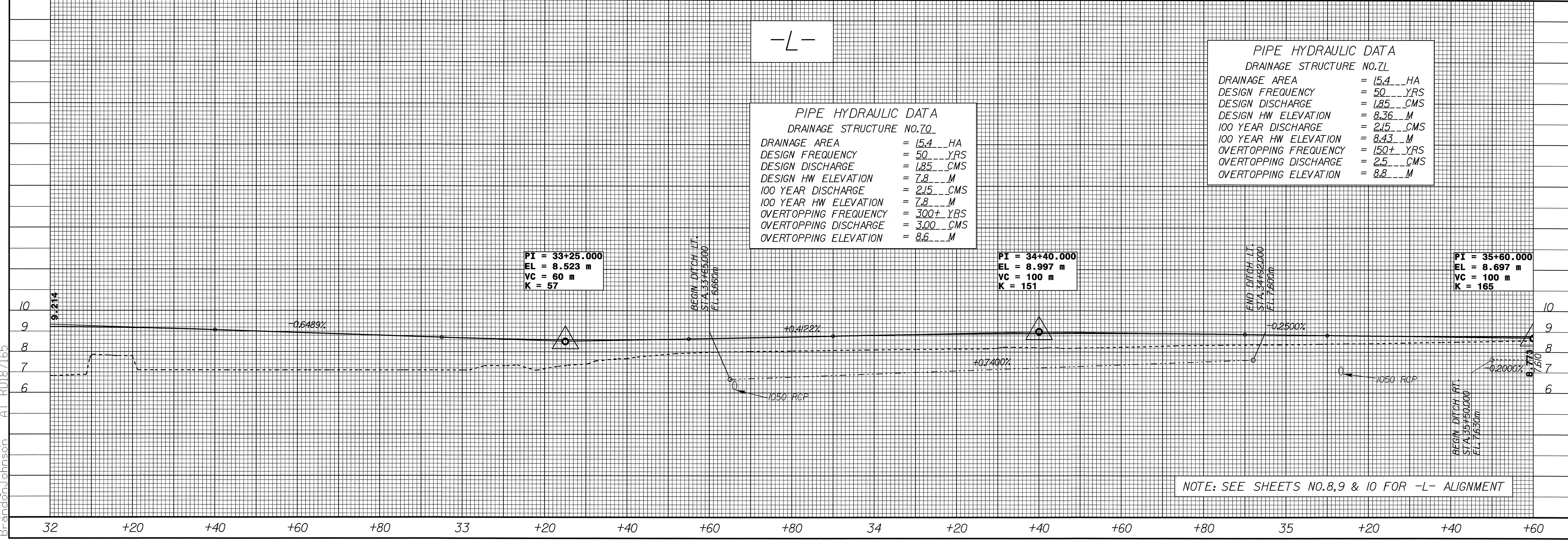
**PIPE HYDRAULIC DATA**  
 DRAINAGE STRUCTURE NO. 7O

DRAINAGE AREA = 15.4 HA  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 1.85 CMS  
 DESIGN HW ELEVATION = 7.8 M  
 100 YEAR DISCHARGE = 2.15 CMS  
 100 YEAR HW ELEVATION = 7.8 M  
 OVERTOPPING FREQUENCY = 300+ YRS  
 OVERTOPPING DISCHARGE = 3.00 CMS  
 OVERTOPPING ELEVATION = 8.6 M

PI = 33+25.000  
 EL = 8.523 m  
 VC = 60 m  
 K = 57

PI = 34+40.000  
 EL = 8.997 m  
 VC = 100 m  
 K = 151

PI = 35+60.000  
 EL = 8.697 m  
 VC = 100 m  
 K = 165



NOTE: SEE SHEETS NO. 8, 9 & 10 FOR -L- ALIGNMENT

03-DEC-2003 14:14  
 P:\proj\2734\p1  
 BrandonJohnson AT R0187165