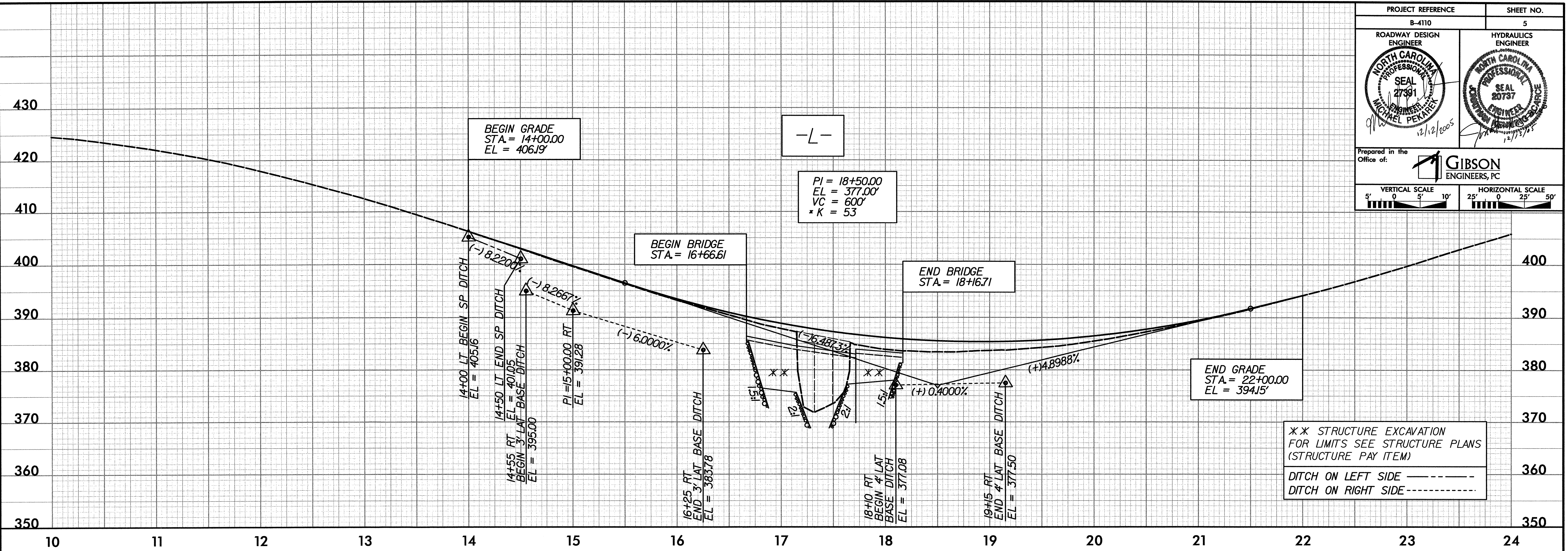


PROJECT REFERENCE B-4110	SHEET NO. 5
ROADWAY DESIGN ENGINEER MICHAEL PENAREY 12/12/2005	HYDRAULICS ENGINEER 12/12/2005
Prepared in the Office of: GIBSON ENGINEERS, PC	
VERTICAL SCALE 5' 0 5' 10'	HORIZONTAL SCALE 25' 0 25' 50'



BENCH MARKS
 BM 764: -BL- STA 15+98 LEFT 53'
 -L- STA 18+51.73 LEFT 47.53'
 N 874.471 E 2,028.868
 EL = 378.56'
 BM 766: -BL- STA 21+17 RIGHT 24'
 N 874.754 E 2,029.308
 EL = 409.49'

BRIDGE HYDRAULIC DATA
 DESIGN DISCHARGE = 1700 CFS
 DESIGN FREQUENCY = 25 YRS
 DESIGN HW ELEVATION = 380.9 FT
 BASE DISCHARGE = 2600 CFS
 BASE FREQUENCY = 100 YRS
 BASE HW ELEVATION = 382.9 FT
 OVERTOPPING DISCHARGE = 4260 CFS
 OVERTOPPING FREQUENCY = +500 YRS
 OVERTOPPING ELEVATION = 385.7 FT
 DATE OF SURVEY = 11/02/04
 W.S.ELEVATION AT DATE OF SURVEY = 373.4 FT

* DESIGN EXCEPTION REQUIRED FOR VERTICAL SAG K FACTOR FOR -L- PLAN VIEW SEE SHEET 4

12/12/2005 10:39:14 PM
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 5/21/11 1:53