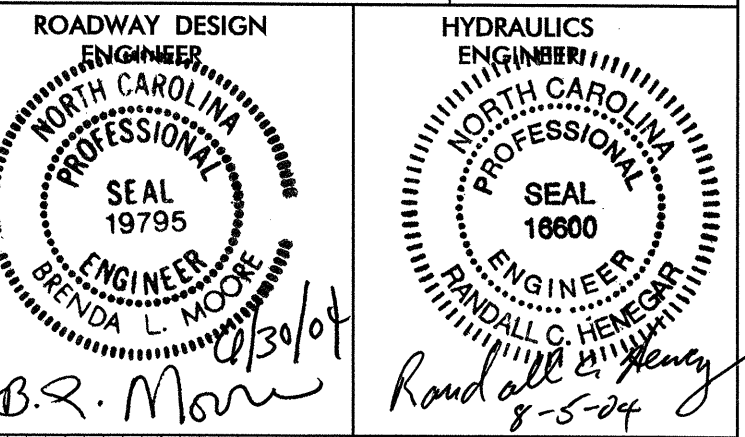


5/14/99

Note:  
DESIGN EXCEPTION REQUIRED  
FOR DESIGN SPEED (40MPH)

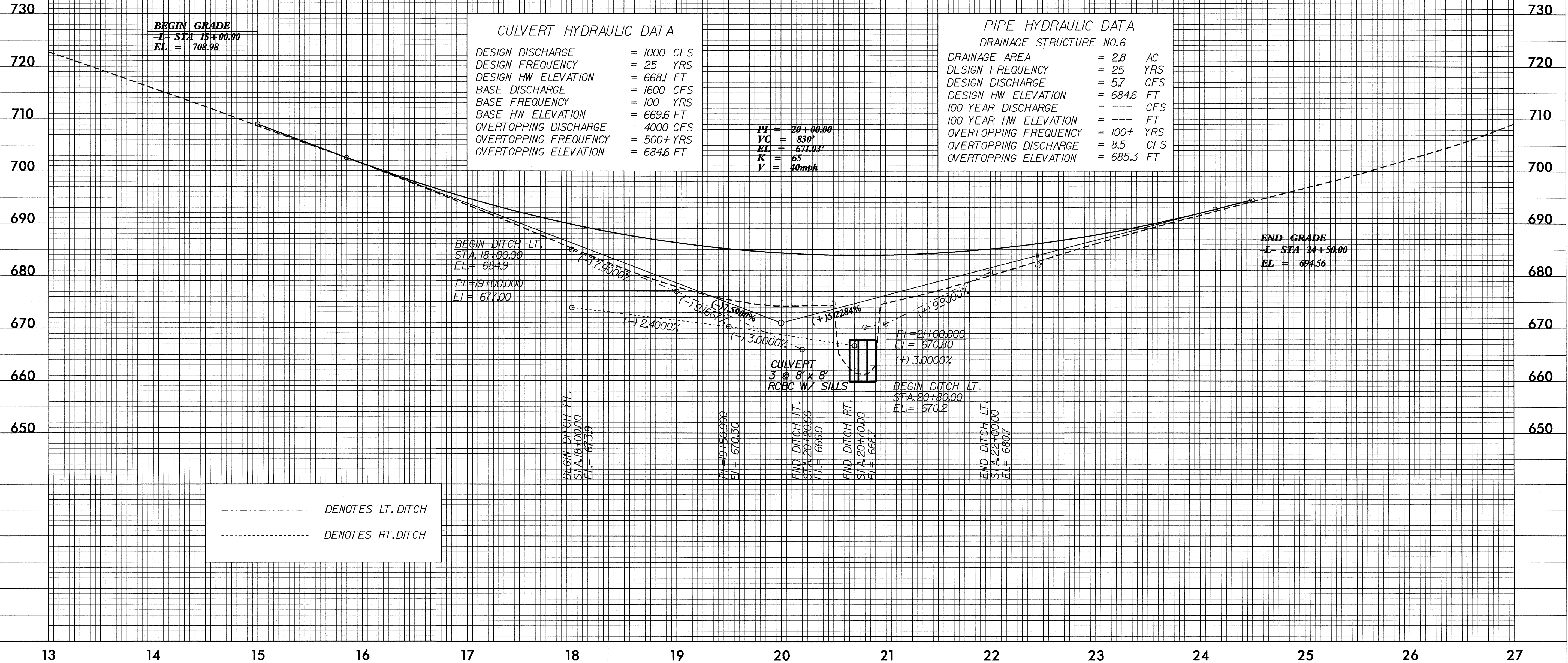
PROJECT REFERENCE NO. B-3695  
SHEET NO. 5



BM #1  
BL STA 10+56.79, 57.25' LT.  
R/R SPIKE SET IN BASE OF  
18" POPLAR. EL = 743.31

-L-

BM #2  
BL STA 20+01.81, 148.96' LT.  
R/R SPIKE SET IN BASE OF  
14" POPLAR. EL = 670.14



BEGIN GRADE  
L- STA 15+00.00  
EL = 708.98

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE = 1000 CFS  
DESIGN FREQUENCY = 25 YRS  
DESIGN HW ELEVATION = 668.1 FT  
BASE DISCHARGE = 1600 CFS  
BASE FREQUENCY = 100 YRS  
BASE HW ELEVATION = 669.6 FT  
OVERTOPPING DISCHARGE = 4000 CFS  
OVERTOPPING FREQUENCY = 500+ YRS  
OVERTOPPING ELEVATION = 684.6 FT

PI = 20+00.00  
VC = 830'  
EL = 671.03'  
K = 65  
V = 40mph

PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 6

DRAINAGE AREA = 2.8 AC  
DESIGN FREQUENCY = 25 YRS  
DESIGN DISCHARGE = 5.7 CFS  
DESIGN HW ELEVATION = 684.6 FT  
100 YEAR DISCHARGE = --- CFS  
100 YEAR HW ELEVATION = --- FT  
OVERTOPPING FREQUENCY = 100+ YRS  
OVERTOPPING DISCHARGE = 8.5 CFS  
OVERTOPPING ELEVATION = 685.3 FT

BEGIN DITCH LT.  
STA 18+00.00  
EL = 684.9  
PI = 19+00.000  
EL = 677.00

BEGIN DITCH RT.  
STA 18+00.00  
EL = 673.9

PI = 19+50.000  
EL = 670.30

END DITCH LT.  
STA 20+20.00  
EL = 666.0

END DITCH RT.  
STA 20+70.00  
EL = 666.7

PI = 21+00.000  
EL = 670.80  
(+) 3.0000%

BEGIN DITCH LT.  
STA 20+80.00  
EL = 670.2

END DITCH LT.  
STA 22+00.00  
EL = 680.7

END GRADE  
L- STA 24+50.00  
EL = 694.56

----- DENOTES LT. DITCH  
----- DENOTES RT. DITCH

08-JUN-2004 09:00  
R:\Proj\B3695\_rdy-p12.dgn  
A