

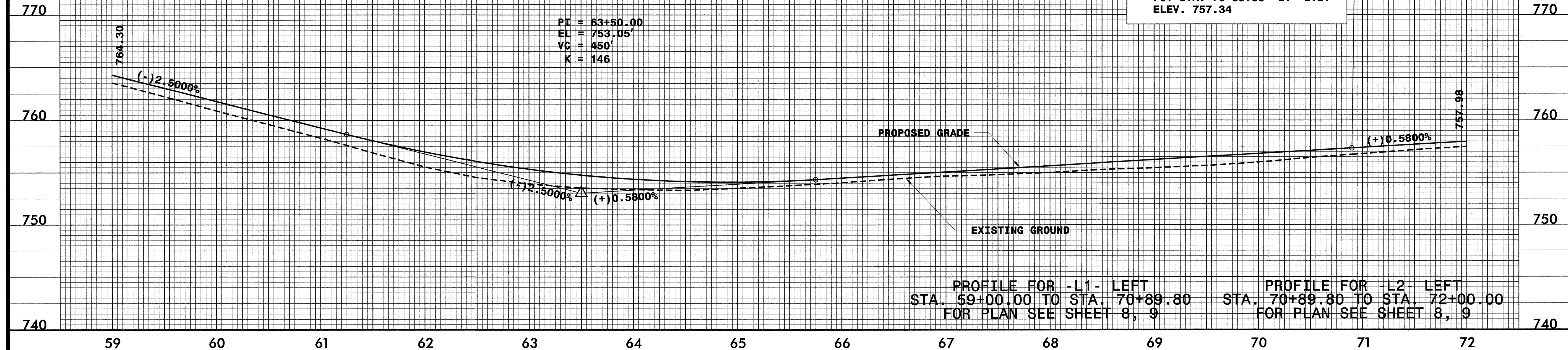
5/28/99

PROJECT REFERENCE NO. R-2911C	SHEET NO. 27
ROADWAY DESIGN ENGINEER DAVID L. WILBUR 19026 1991 NORTH CAROLINA PROFESSIONAL ENGINEER	HYDRAULICS ENGINEER HENRY WELLS 9334 NORTH CAROLINA PROFESSIONAL ENGINEER
WILBUR SMITH ASSOCIATES P.O. BOX 2419 RALEIGH, NC 27601	SUNGATE DESIGN GROUP 914-A JONES FRANKLIN RD. RALEIGH, NC 27606

BM 2:
RR SPIKE IN ROOT OF 12" OAK
-L1- STA. 64+48.05, 536.98' LT. =
BL STA. 61+60.26, 542.04' LT. =
EL. 774.09

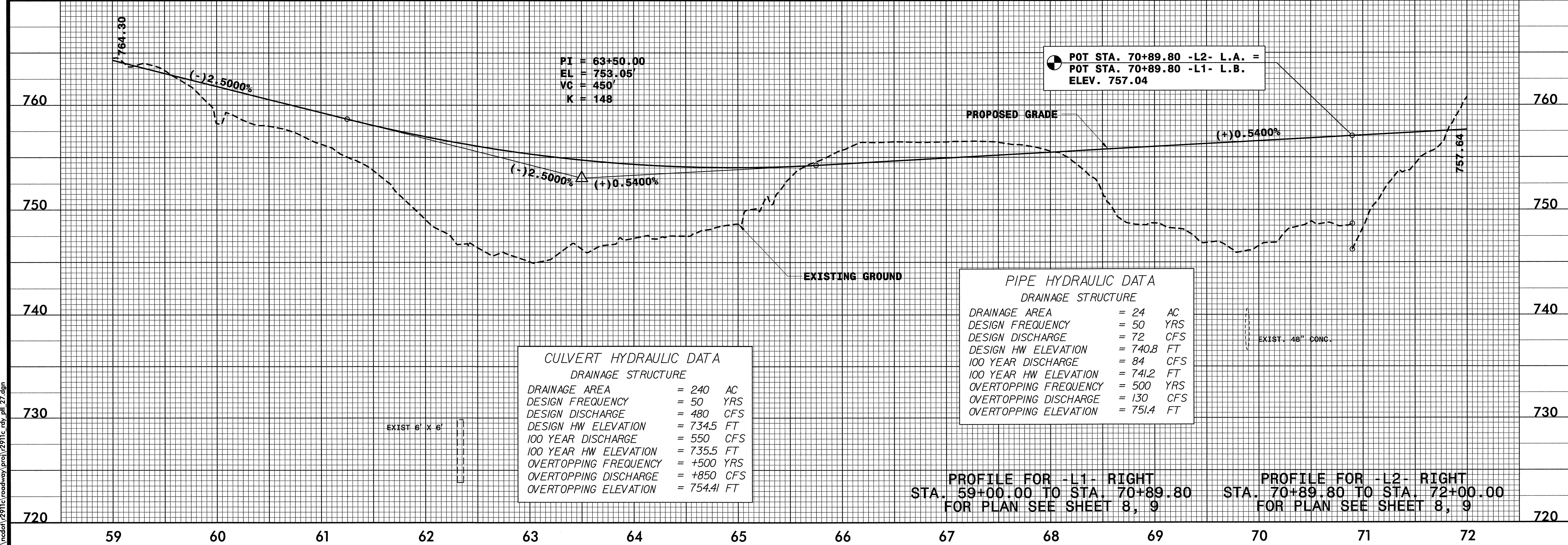
POT STA. 70+89.80 -L2- L.A. =
POT STA. 70+89.80 -L1- L.B.
ELEV. 757.34

PI = 63+50.00
EL = 753.05'
VC = 450'
K = 146



PI = 63+50.00
EL = 753.05'
VC = 450'
K = 148

POT STA. 70+89.80 -L2- L.A. =
POT STA. 70+89.80 -L1- L.B.
ELEV. 757.04



CULVERT HYDRAULIC DATA
DRAINAGE STRUCTURE

DRAINAGE AREA	= 240	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 480	CFS
DESIGN HW ELEVATION	= 734.5	FT
100 YEAR DISCHARGE	= 550	CFS
100 YEAR HW ELEVATION	= 735.5	FT
OVERTOPPING FREQUENCY	= +500	YRS
OVERTOPPING DISCHARGE	= +850	CFS
OVERTOPPING ELEVATION	= 754.41	FT

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE

DRAINAGE AREA	= 24	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 72	CFS
DESIGN HW ELEVATION	= 740.8	FT
100 YEAR DISCHARGE	= 84	CFS
100 YEAR HW ELEVATION	= 741.2	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 130	CFS
OVERTOPPING ELEVATION	= 751.4	FT

EXIST. 48" CONC.

DATE: 9/7/2004
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