

5/28/09



PROJECT REFERENCE NO. W-5516	SHEET NO. 18
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
SEAL 22606 DAVID C. WALLER	SEAL 34364 TRENT CORNIER
DocuSigned by: David C. Waller 7/6/2015	DocuSigned by: Trent Cornier 7/6/2015

PIPE HYDRAULIC DATA
18" RCP-III STA 96+40 -L-

DRAINAGE AREA	= 1.55 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 5 CFS
DESIGN HW ELEVATION	= 766.70 FT
100 YEAR DISCHARGE	= 5 CFS
100 YEAR HW ELEVATION	= 766.70 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 21 CFS
OVERTOPPING ELEVATION	= 774.44 FT

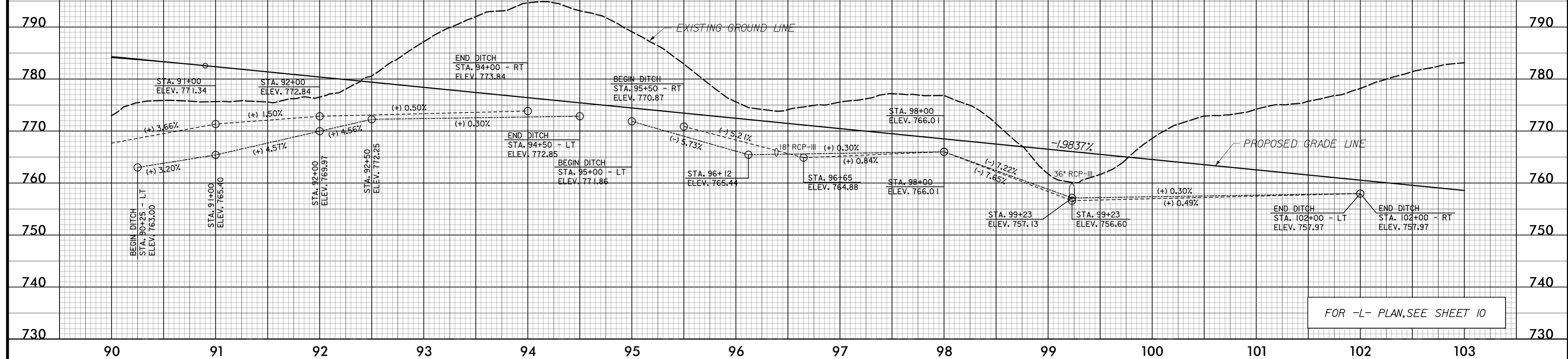
INV IN = 765.44 INV OUT = 764.88

-L-
OLD BEATTY FORD ROAD

PIPE HYDRAULIC DATA
36" RCP-III STA 99+23 -L-

DRAINAGE AREA	= 10.52 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 34 CFS
DESIGN HW ELEVATION	= 760.05 FT
100 YEAR DISCHARGE	= 36 CFS
100 YEAR HW ELEVATION	= 760.16 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 100 CFS
OVERTOPPING ELEVATION	= 766.05 FT

INV IN = 757.13 INV OUT = 756.60



FOR -L- PLAN, SEE SHEET 10

-L-
OLD BEATTY FORD ROAD

CULVERT HYDRAULIC DATA

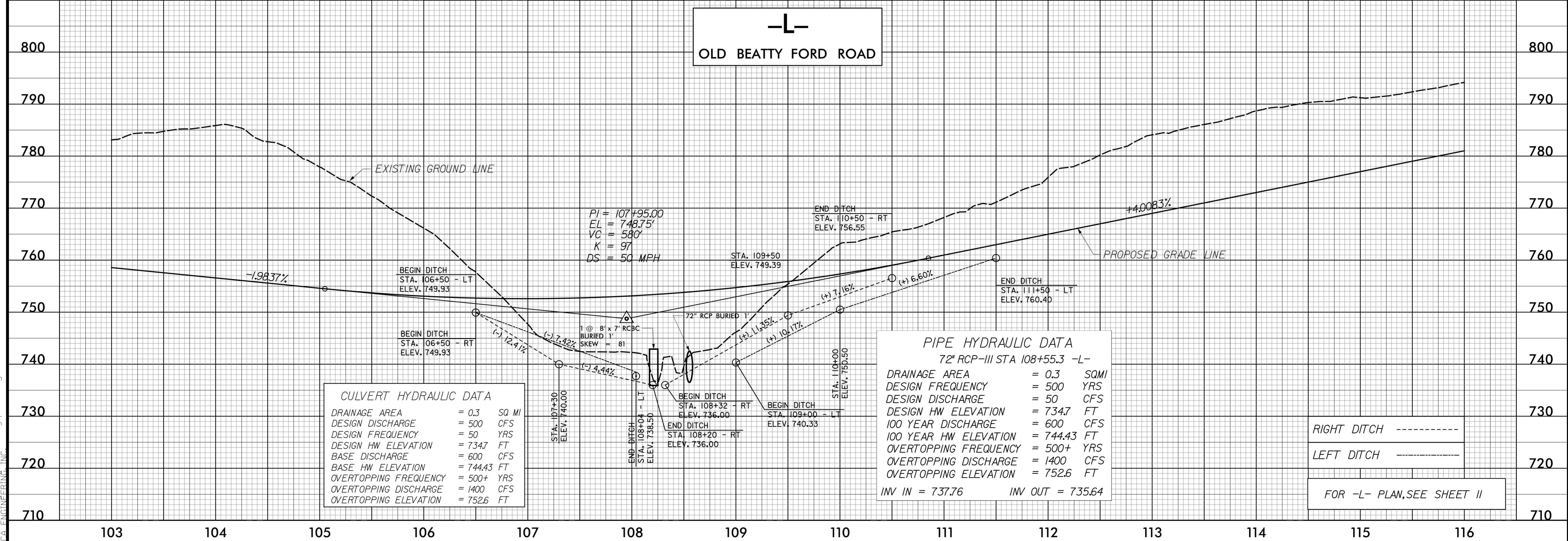
DRAINAGE AREA	= 0.3 SQ MI
DESIGN DISCHARGE	= 500 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 734.7 FT
BASE DISCHARGE	= 600 CFS
BASE HW ELEVATION	= 744.43 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 1400 CFS
OVERTOPPING ELEVATION	= 752.6 FT

PIPE HYDRAULIC DATA
72" RCP-III STA 108+55.3 -L-

DRAINAGE AREA	= 0.3 SQ MI
DESIGN FREQUENCY	= 500 YRS
DESIGN DISCHARGE	= 50 CFS
DESIGN HW ELEVATION	= 734.7 FT
100 YEAR DISCHARGE	= 600 CFS
100 YEAR HW ELEVATION	= 744.43 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 1400 CFS
OVERTOPPING ELEVATION	= 752.6 FT

INV IN = 737.76 INV OUT = 735.64

PI = 107+95.00
EL = 748.75'
VC = 580'
K = 97
DS = 50 MPH



RIGHT DITCH -----
LEFT DITCH -----

FOR -L- PLAN, SEE SHEET 11

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