

03/26/08

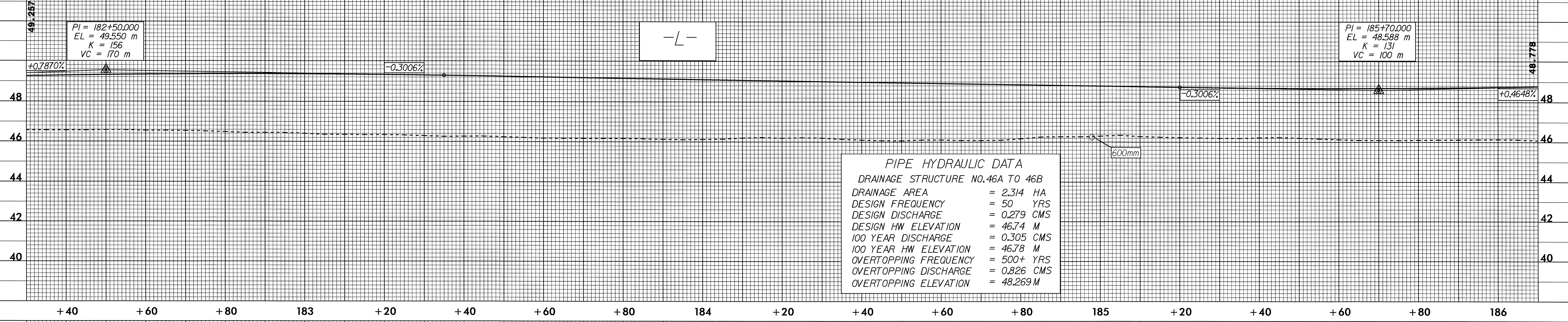
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BM * 20 R/R SPIKE IN BASE 450mm PINE 579J41m LT OF
-L- STA 184+18.901 EL 45.475

BM * 22 R/R SPIKE IN BASE 600mm PINE 69J44m LT OF
-L- STA 185+99.122 EL 46.889



PROJECT REFERENCE NO. R-513 BB	SHEET NO. 37
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
16-03-04	
CONST.REV.	
R / W REV.	



PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.46A TO 46B

DRAINAGE AREA	= 2.314 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.279 CMS
DESIGN HW ELEVATION	= 46.74 M
100 YEAR DISCHARGE	= 0.305 CMS
100 YEAR HW ELEVATION	= 46.78 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 0.826 CMS
OVERTOPPING ELEVATION	= 48.269 M



PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.51

DRAINAGE AREA	= 54J25 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.808 CMS
DESIGN HW ELEVATION	= 47.3 M
100 YEAR DISCHARGE	= 0.977 CMS
100 YEAR HW ELEVATION	= 47.58 M
OVERTOPPING FREQUENCY	= 200+ YRS
OVERTOPPING DISCHARGE	= 1.34 CMS
OVERTOPPING ELEVATION	= 48.323M