PROJECT REFERENCE NO.	SHEET NO.
R-513C	87

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 12300 ENGINEER CHARLES LEE FLOWE
7/16/04

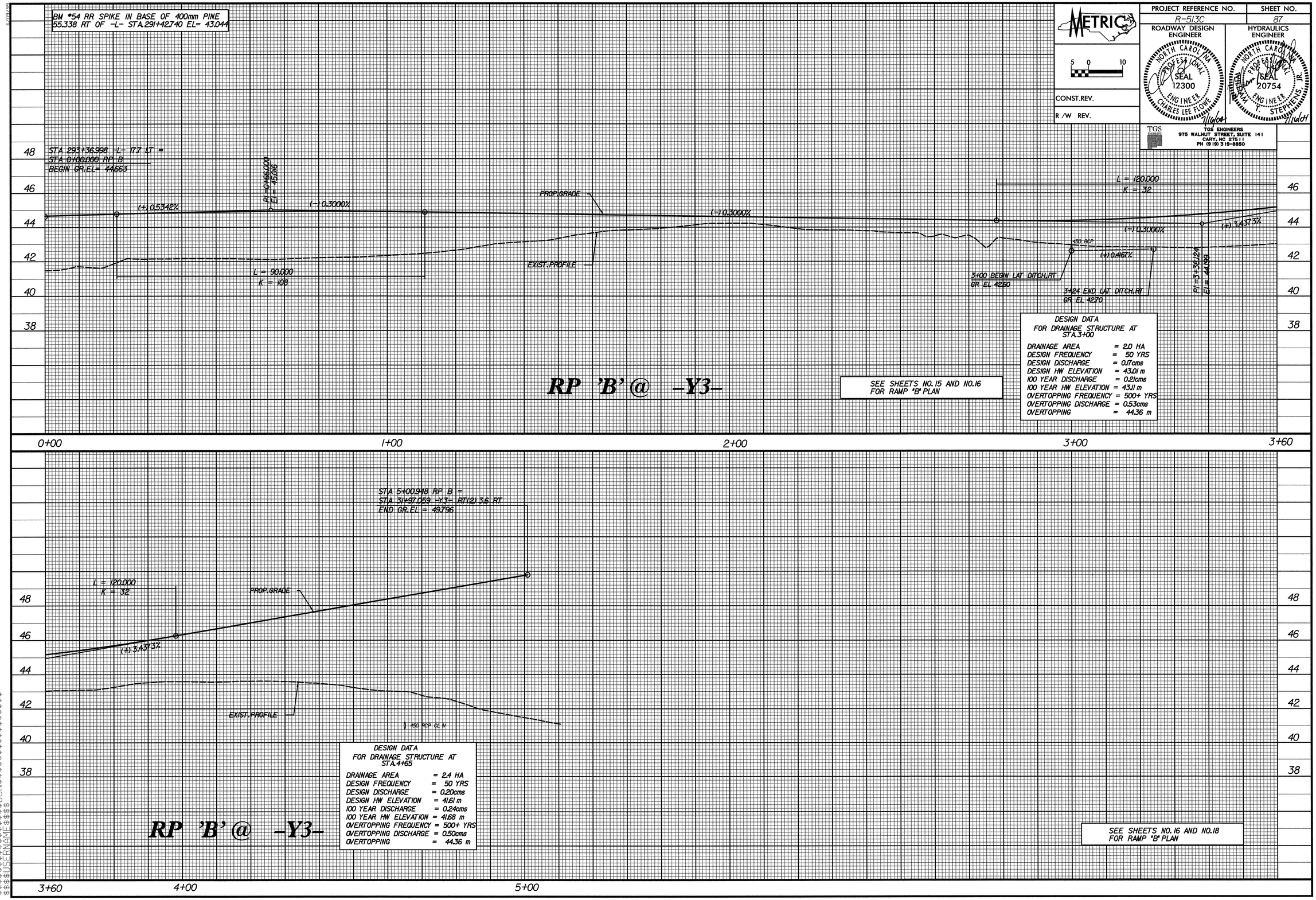
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20754 ENGINEER BENJAMIN T. STEPHENS, JR.
7/16/04

METRIC
5 0 10

CONST.REV.

R /W REV.

TGS ENGINEERS
975 WALNUT STREET, SUITE 141
CARY, NC 27511
PH (919) 319-8850



DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.3+00

DRAINAGE AREA	=	2.0 HA
DESIGN FREQUENCY	=	50 YRS
DESIGN DISCHARGE	=	0.17cms
DESIGN HW ELEVATION	=	43.01 m
100 YEAR DISCHARGE	=	0.21cms
100 YEAR HW ELEVATION	=	43.11 m
OVERTOPPING FREQUENCY	=	500+ YRS
OVERTOPPING DISCHARGE	=	0.53cms
OVERTOPPING	=	44.36 m

DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.4+65

DRAINAGE AREA	=	2.4 HA
DESIGN FREQUENCY	=	50 YRS
DESIGN DISCHARGE	=	0.20cms
DESIGN HW ELEVATION	=	41.61 m
100 YEAR DISCHARGE	=	0.24cms
100 YEAR HW ELEVATION	=	41.68 m
OVERTOPPING FREQUENCY	=	500+ YRS
OVERTOPPING DISCHARGE	=	0.50cms
OVERTOPPING	=	44.36 m

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