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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-3620	23

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 25873 ENGINEER GARY R. LOVERING
DocuSigned by: Gary Lovering 4/3/2014
DFD7BF34A8B0425...

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 22000 ENGINEER W. GALEN CAIL
DocuSigned by: Galen Cail 4/7/2014
D79B2B6E60EC454...

-L-

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 1201 & 1202

DRAINAGE AREA	= 24	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 34	CFS
DESIGN HW ELEVATION	= 11.36	FT
100 YEAR DISCHARGE	= 54	CFS
100 YEAR HW ELEVATION	= 12.56	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 14.1	FT

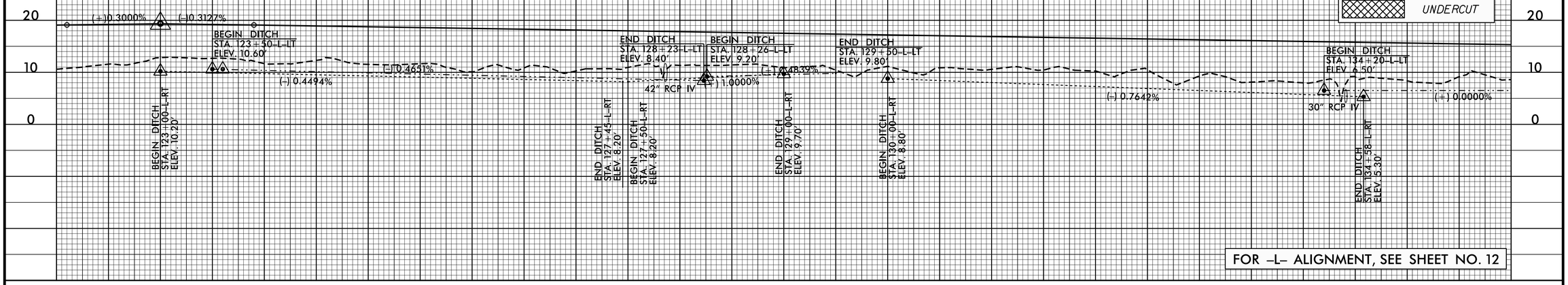
BM #14 RR SPIKE IN 12" OAK
-L- STA. 129+32.91, 196.71' LEFT
ELEV. = 12.33'

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 1203 & 1204

DRAINAGE AREA	= 6.0	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 14	CFS
DESIGN HW ELEVATION	= 6.8	FT
100 YEAR DISCHARGE	= 19	CFS
100 YEAR HW ELEVATION	= 7.23	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 14.1	FT

DITCH LEGEND
LEFT DITCH
RIGHT DITCH
UNDERCUT

PI = 123+00.00
EL = 19.38'
VC = 180'
K = 294



FOR -L- ALIGNMENT, SEE SHEET NO. 12

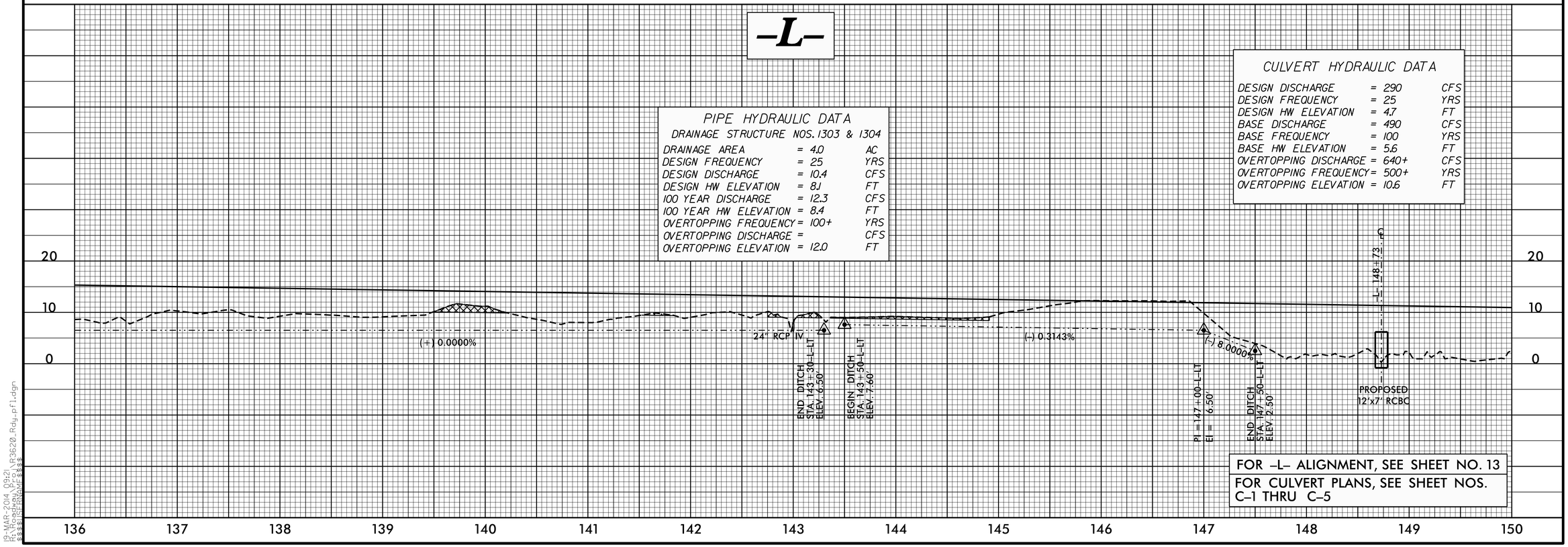
-L-

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 1303 & 1304

DRAINAGE AREA	= 4.0	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 10.4	CFS
DESIGN HW ELEVATION	= 8.1	FT
100 YEAR DISCHARGE	= 12.3	CFS
100 YEAR HW ELEVATION	= 8.4	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 12.0	FT

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 290	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 4.7	FT
BASE DISCHARGE	= 490	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 5.6	FT
OVERTOPPING DISCHARGE	= 640+	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 10.6	FT



FOR -L- ALIGNMENT, SEE SHEET NO. 13

FOR CULVERT PLANS, SEE SHEET NOS. C-1 THRU C-5

19-MAR-2014 09:21
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$$$$USERNAME$$$$