PROJECT REFERENCE NO.	SHEET NO.
17BP.5.R.68	5

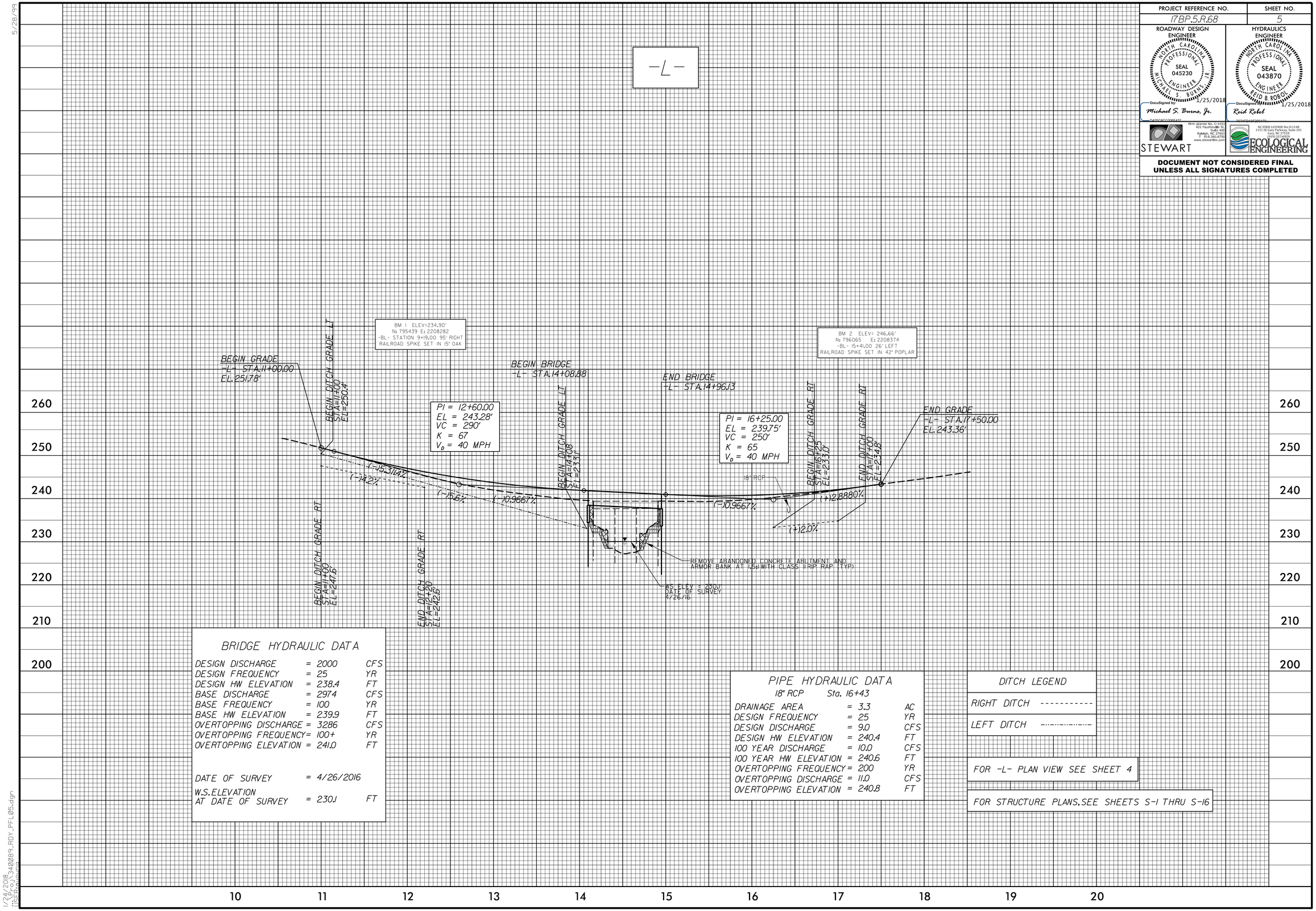
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 045230 ENGINEER MICHAEL S. BURNS, JR.
1/25/2018
DocuSigned by: Michael S. Burns, Jr.
D495C8CC006E437...

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 043870 ENGINEER REID B. ROBOL
1/25/2018
DocuSigned by: Reid Robol
7034ED43F0904370...

STEWART
Firm License No. C-1051
421 Fayetteville St.
Suite 400
Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com

ECOLOGICAL ENGINEERING
NC FIRM LICENSE No F-1148
1155 SE Cary Parkway, Suite 101
Cary, NC 27518
(919) 362-0002

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 2000	CFS
DESIGN FREQUENCY	= 25	YR
DESIGN HW ELEVATION	= 238.4	FT
BASE DISCHARGE	= 2974	CFS
BASE FREQUENCY	= 100	YR
BASE HW ELEVATION	= 239.9	FT
OVERTOPPING DISCHARGE	= 3286	CFS
OVERTOPPING FREQUENCY	= 100+	YR
OVERTOPPING ELEVATION	= 241.0	FT
DATE OF SURVEY	= 4/26/2016	
W.S. ELEVATION AT DATE OF SURVEY	= 230.1	FT

PIPE HYDRAULIC DATA

18" RCP Sta. 16+43

DRAINAGE AREA	= 3.3	AC
DESIGN FREQUENCY	= 25	YR
DESIGN DISCHARGE	= 9.0	CFS
DESIGN HW ELEVATION	= 240.4	FT
100 YEAR DISCHARGE	= 10.0	CFS
100 YEAR HW ELEVATION	= 240.6	FT
OVERTOPPING FREQUENCY	= 200	YR
OVERTOPPING DISCHARGE	= 11.0	CFS
OVERTOPPING ELEVATION	= 240.8	FT

DITCH LEGEND

RIGHT DITCH ----------

LEFT DITCH -·-·-·-·-·-

FOR -L- PLAN VIEW SEE SHEET 4

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-16

5/28/99
1/24/2018
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USER: rbolin