PROJECT REFERENCE NO.	SHEET NO.
B-5145	5

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 034407 ENGINEER ANDREW P. YOUNG
DocuSigned by: Andrew P. Young 7/9/2018
EF21D93DD82F4EF...

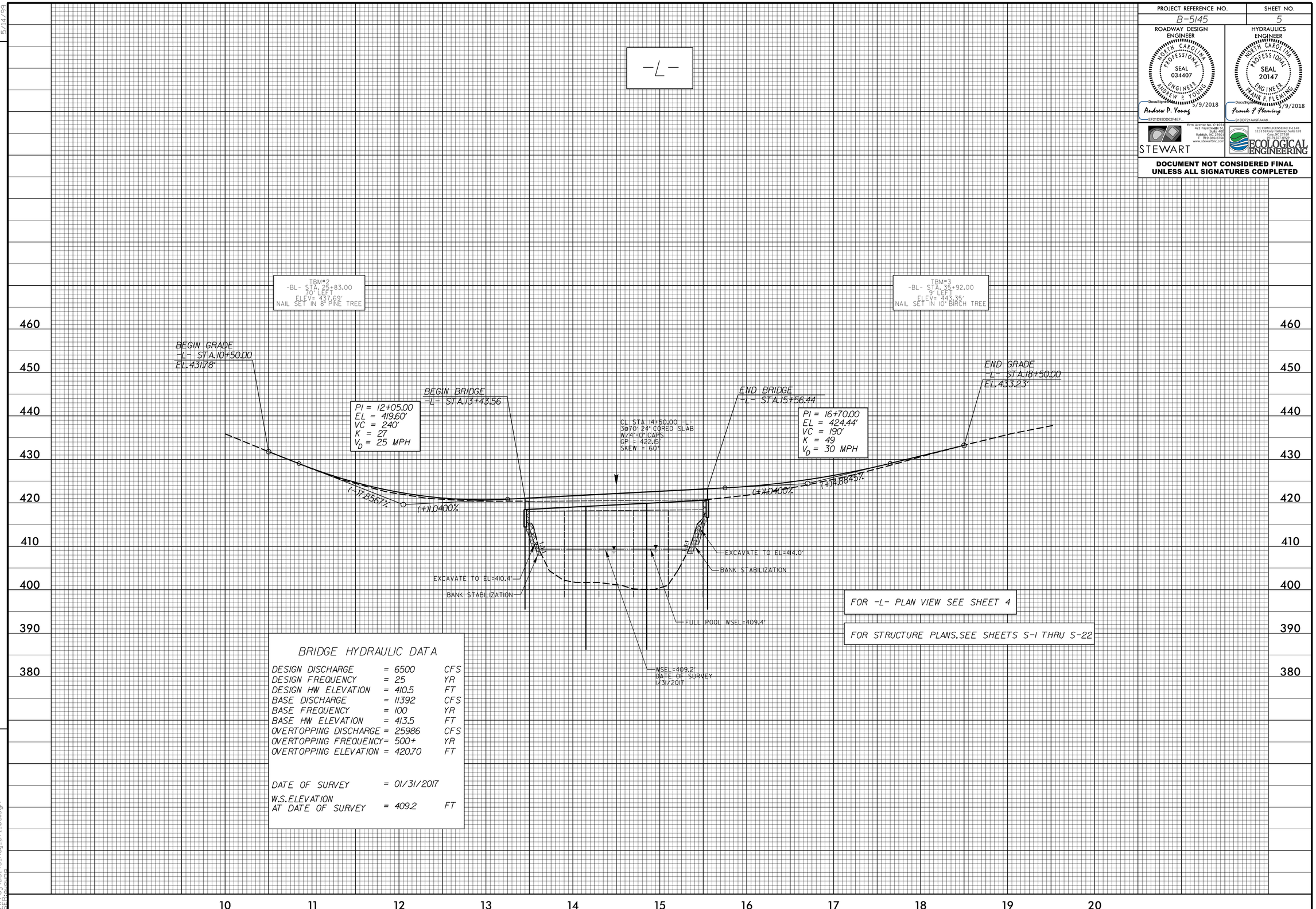
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20147 ENGINEER FRANK F. FLEMING
DocuSigned by: Frank F. Fleming 7/9/2018
B1DD721AA5FA4A6...

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

NC FIRM LICENSE No F-1148
1153 SE Cary Parkway, Suite 101
Cary, NC 27518
(919) 362-0225

ECOLOGICAL ENGINEERING

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



FOR -L- PLAN VIEW SEE SHEET 4

FOR STRUCTURE PLANS,SEE SHEETS S-1 THRU S-22

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 6500	CFS
DESIGN FREQUENCY	= 25	YR
DESIGN HW ELEVATION	= 410.5	FT
BASE DISCHARGE	= 11392	CFS
BASE FREQUENCY	= 100	YR
BASE HW ELEVATION	= 413.5	FT
OVERTOPPING DISCHARGE	= 25986	CFS
OVERTOPPING FREQUENCY	= 500+	YR
OVERTOPPING ELEVATION	= 420.70	FT
DATE OF SURVEY	= 01/31/2017	
W.S.ELEVATION AT DATE OF SURVEY	= 409.2	FT

REVISIONS

5/14/99

5/1/2018
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USER:Rdwing