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DocuSigned by:
Brian A Wiles
889ODOFEA2E34DE...

5/14/99

CH ENGINEERING
3220 GLEN ROYAL RD. RALEIGH, NC 27617
TELE 919.788.0224 FAX 919.788.0232
NC LICENSE #P-0189

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

PROJECT REFERENCE NO.	SHEET NO.
17BP.8.R.123	5

ROADWAY DESIGN ENGINEER
4/18/2018
NORTH CAROLINA PROFESSIONAL SEAL 16689 ENGINEER BRIAN ALLEN WILES

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 030343 ENGINEER GREGORY R. COLS
4/18/2018

DocuSigned by:
Brian A Wiles
889ODOFEA2E34DE...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

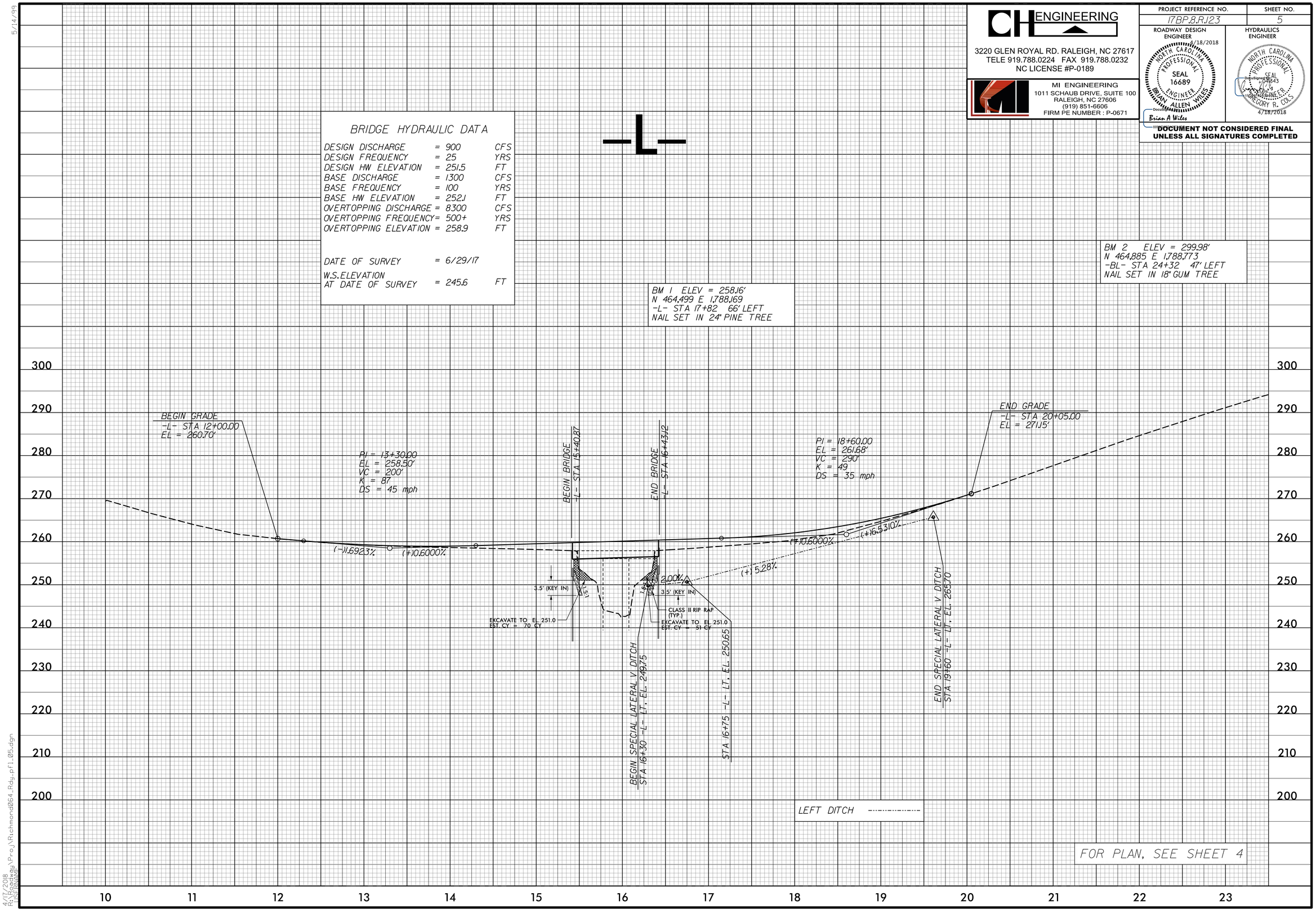
BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 900	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 251.5	FT
BASE DISCHARGE	= 1300	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 252.1	FT
OVERTOPPING DISCHARGE	= 8300	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 258.9	FT
DATE OF SURVEY	= 6/29/17	
W.S. ELEVATION AT DATE OF SURVEY	= 245.6	FT

-L-

BM 1 ELEV = 258.16'
N 464,499 E 1,788,169
-L- STA 17+82 66' LEFT
NAIL SET IN 24" PINE TREE

BM 2 ELEV = 299.98'
N 464,885 E 1,788,773
-BL- STA 24+32 47' LEFT
NAIL SET IN 18" GUM TREE



FOR PLAN, SEE SHEET 4

4/17/2018
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