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PROJECT REFERENCE	SHEET NO.
17BP.5.R.51 – WAKE 27	5

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 21102 ENGINEER MOTHI JORDAN	NORTH CAROLINA PROFESSIONAL SEAL 34364 ENGINEER BENJAMIN J. CORMIER
DocuSigned by: Mothi Jordan 2/6/2018	DocuSigned by: Benjamin J. Cormier 2/6/2018
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	HDR ENGINEERING LICENSE NO. F-0116

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:

MOTT MACDONALD
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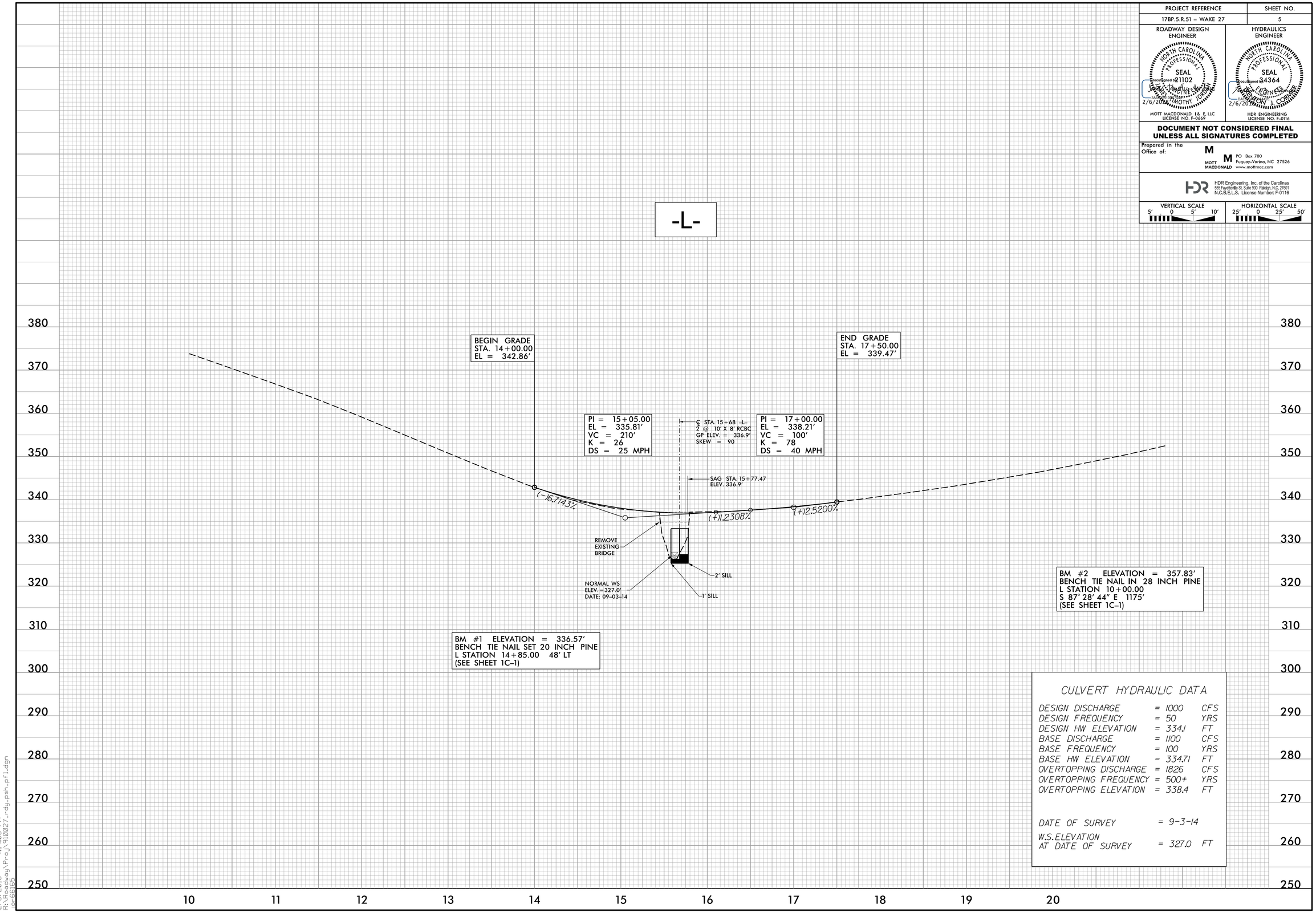
Fuquay-Varina, NC 27526
www.mottmac.com

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

VERTICAL SCALE 5′ 0 5′ 10′
HORIZONTAL SCALE 25′ 0 25′ 50′



CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 1000	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 334.1	FT
BASE DISCHARGE	= 1100	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 334.71	FT
OVERTOPPING DISCHARGE	= 1826	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 338.4	FT
DATE OF SURVEY	= 9-3-14	
W.S.ELEVATION AT DATE OF SURVEY	= 327.0	FT

2/6/2018 4:19:05 PM
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