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PROJECT REFERENCE	SHEET NO.
B-5682 – GRANVILLE 129	5

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 21102 ENGINEER TIMOTHY JOHNSON
Docusigned by: 4/12/2018
MOTT MACDONALD I & E, LLC
LICENSE NO. F-0669

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 34364 ENGINEER MATTHEW CORNWELL
Docusigned by: 4/23/2018
HDR ENGINEERING
LICENSE NO. F-0116

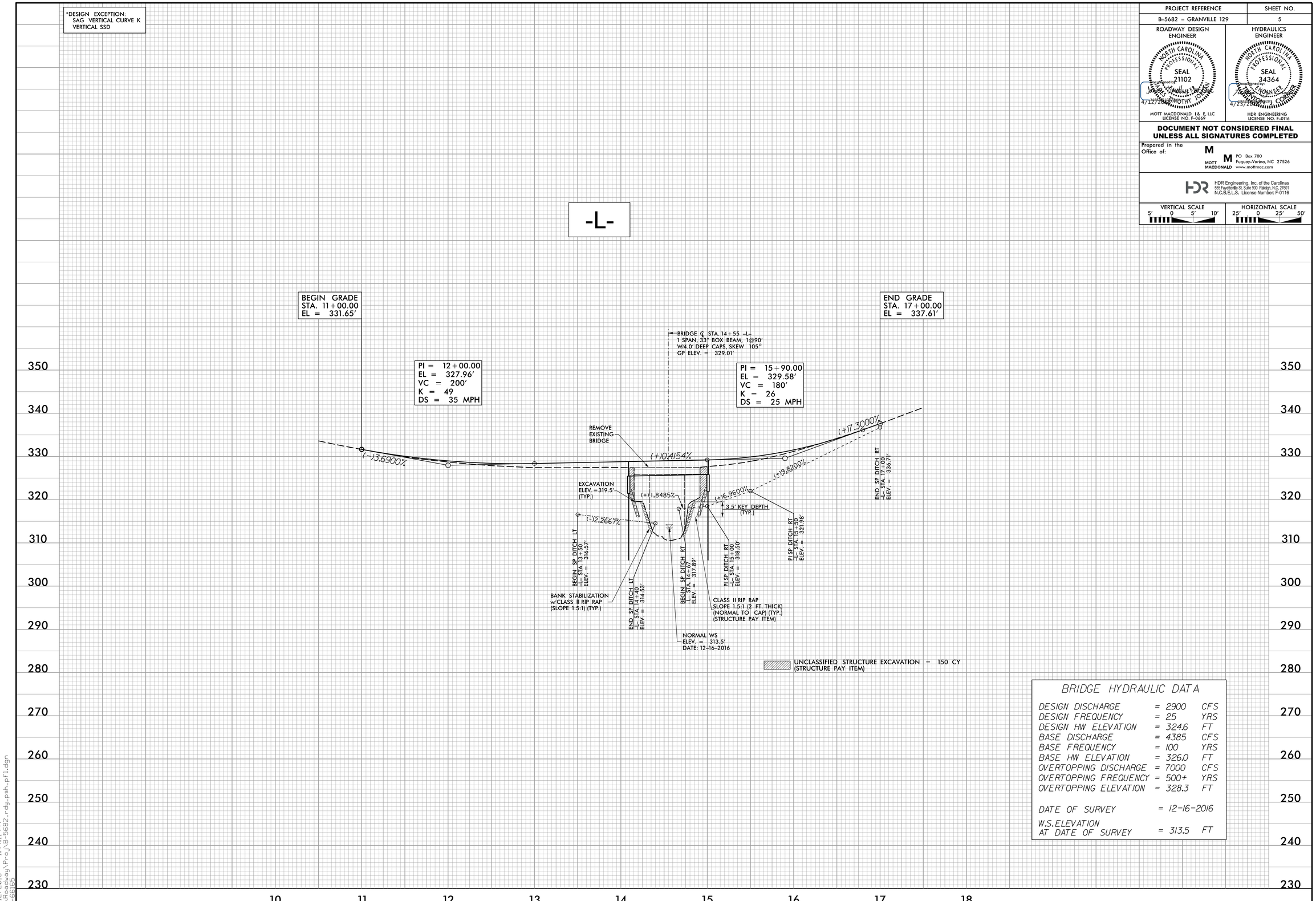
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:
MOTT MACDONALD — PO Box 700, Fuquay-Varina, NC 27526, www.mottmac.com

HDR Engineering, Inc. of the Carolinas
559 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′

*DESIGN EXCEPTION:
SAG VERTICAL CURVE K
VERTICAL SSD



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 2900	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 324.6	FT
BASE DISCHARGE	= 4385	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 326.0	FT
OVERTOPPING DISCHARGE	= 7000	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 328.3	FT
DATE OF SURVEY	= 12-16-2016	
W.S. ELEVATION AT DATE OF SURVEY	= 313.5	FT

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