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PROJECT REFERENCE NO.	SHEET NO.
17BP.J.R.61	4
WASHINGTON COUNTY BRIDGE NO.930012	

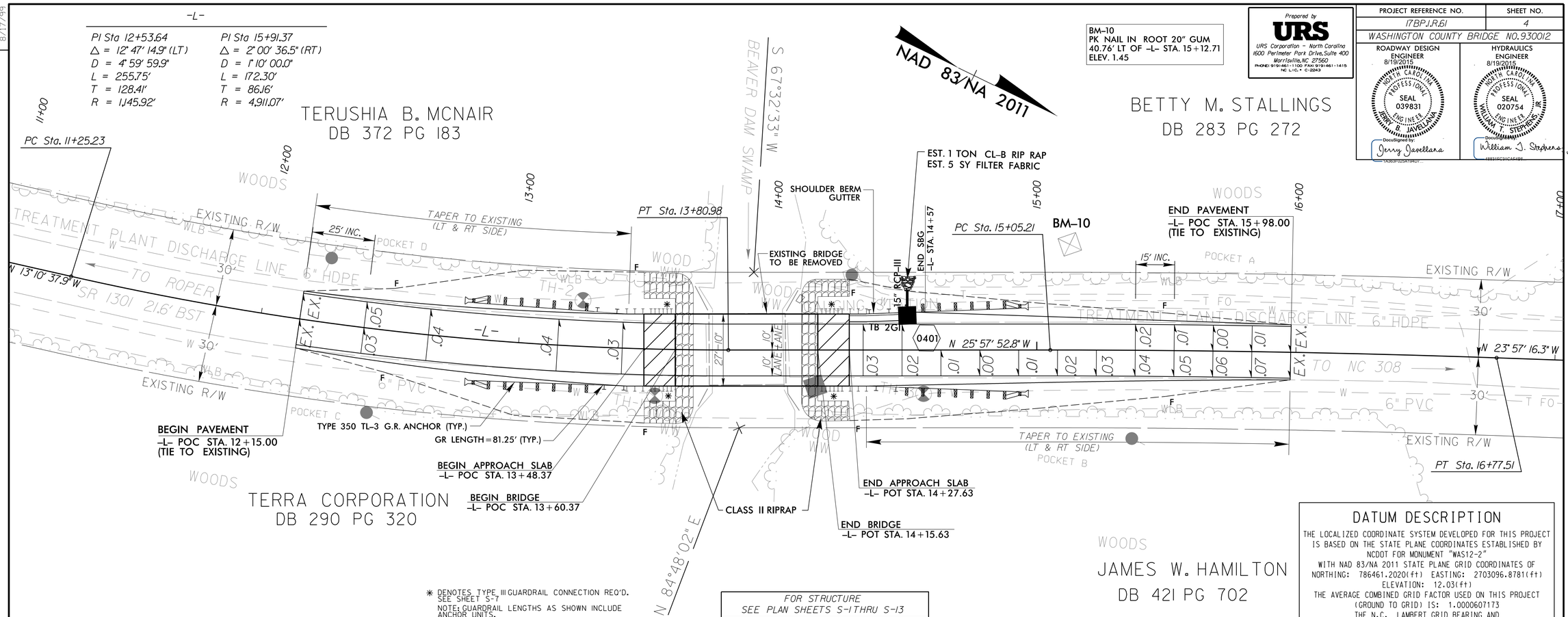
ROADWAY DESIGN ENGINEER 8/19/2015 — NORTH CAROLINA PROFESSIONAL SEAL 039831 ENGINEER JERRY W. JAVELLANA — DocuSigned by: Jerry Javellana

HYDRAULICS ENGINEER 8/19/2015 — NORTH CAROLINA PROFESSIONAL SEAL 020754 ENGINEER WILLIAM T. STEPHENS JR. — DocuSigned by: William T. Stephens Jr.

Prepared by URS
URS Corporation – North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, NC 27560
PHONE: 919-461-1100 FAX: 919-461-1415
NC LIC # C-2243

BM-10
PK NAIL IN ROOT 20" GUM
40.76' LT OF -L- STA. 15+12.71
ELEV. 1.45

NAD 83/NA 2011

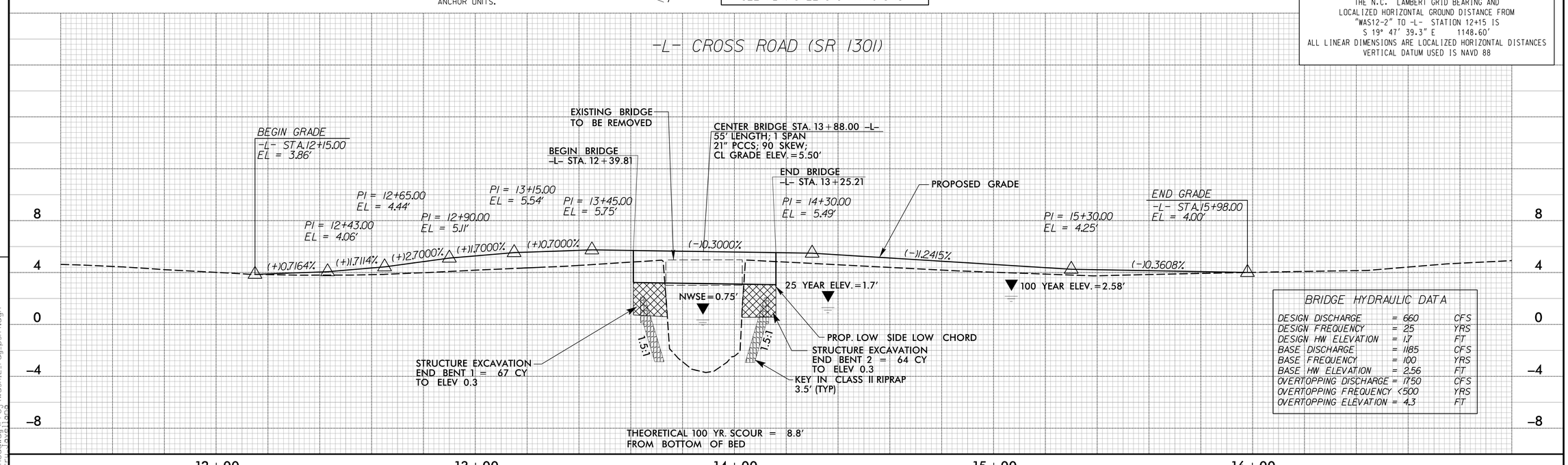


* DENOTES TYPE III GUARDRAIL CONNECTION REQ'D. SEE SHEET S-7
NOTE: GUARDRAIL LENGTHS AS SHOWN INCLUDE ANCHOR UNITS.

FOR STRUCTURE SEE PLAN SHEETS S-1 THRU S-13

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "WAS12-2"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 786461.2020(ft) EASTING: 2703096.8781(ft)
ELEVATION: 12.03(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0000607173
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "WAS12-2" TO -L- STATION 12+15 IS
S 19° 47' 39.3" E 1148.60'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 660	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 1.7	FT
BASE DISCHARGE	= 1185	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 2.56	FT
OVERTOPPING DISCHARGE	= 1750	CFS
OVERTOPPING FREQUENCY	<500	YRS
OVERTOPPING ELEVATION	= 4.3	FT

REVISIONS

8/17/99

7/28/2015
R:\Roadway\Proj\Wash12_rdy_psh4.dgn
jerrjavellana