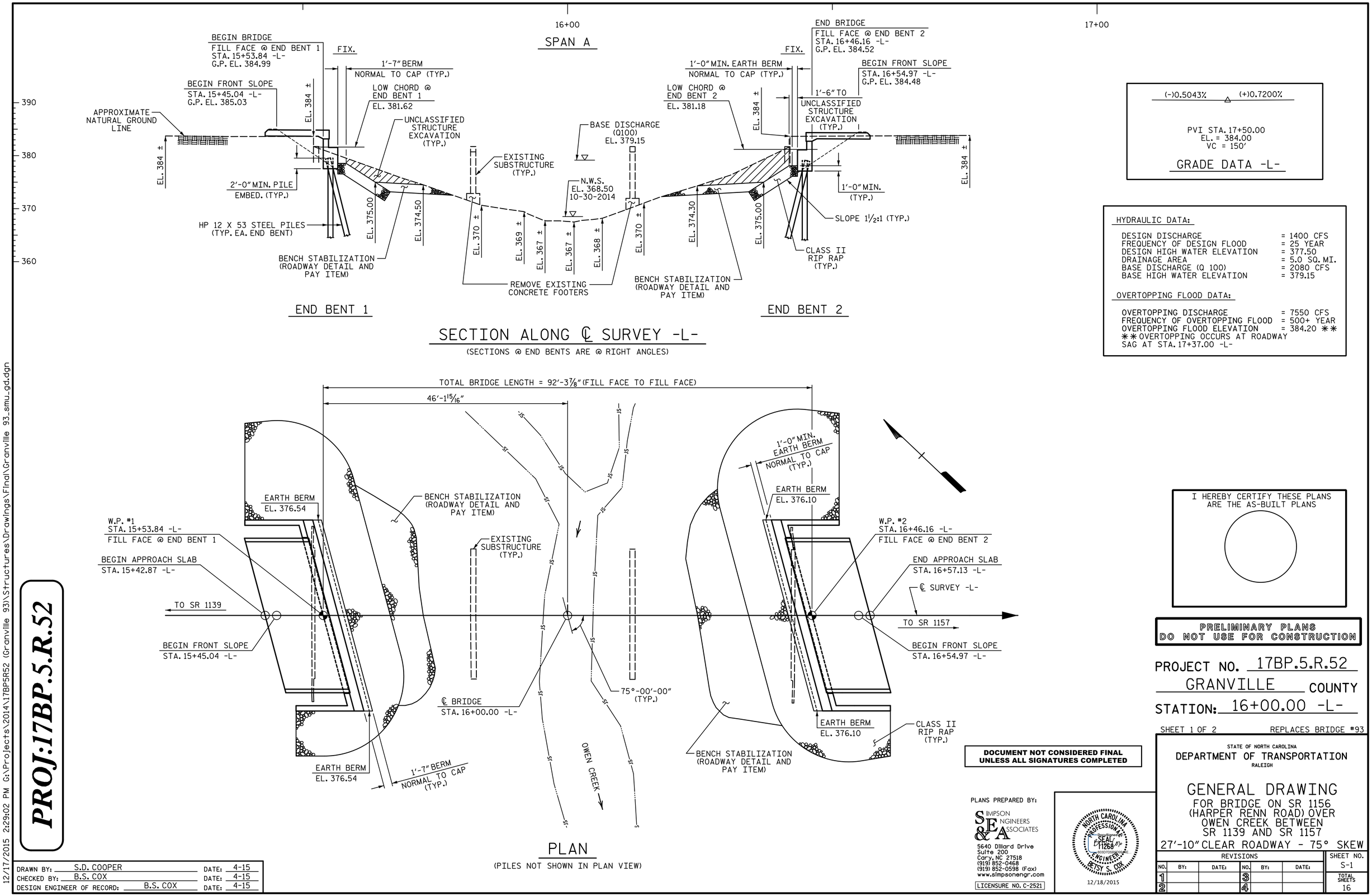
DocuSign Envelope ID: E3A47E2C-B026-45A6-89D4-8A895974CF0D



(-)0.5043% (+)0.7200%

PVI STA. 17+50.00
EL. = 384.00
VC = 150'

GRADE DATA -L-

HYDRAULIC DATA:

DESIGN DISCHARGE	= 1400 CFS
FREQUENCY OF DESIGN FLOOD	= 25 YEAR
DESIGN HIGH WATER ELEVATION	= 377.50
DRAINAGE AREA	= 5.0 SQ. MI.
BASE DISCHARGE (Q 100)	= 2080 CFS
BASE HIGH WATER ELEVATION	= 379.15

OVERTOPPING FLOOD DATA:

OVERTOPPING DISCHARGE	= 7550 CFS
FREQUENCY OF OVERTOPPING FLOOD	= 500+ YEAR
OVERTOPPING FLOOD ELEVATION	= 384.20 **

** OVERTOPPING OCCURS AT ROADWAY SAG AT STA. 17+37.00 -L-

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT NO. 17BP.5.R.52
GRANVILLE COUNTY
STATION: 16+00.00 -L-

SHEET 1 OF 2 REPLACES BRIDGE #93

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:
SIMPSON ENGINEERS & ASSOCIATES
5640 Dillard Drive
Suite 200
Cary, NC 27518
(919) 852-0468
(919) 852-0598 (Fax)
www.simpsonengr.com
LICENSURE NO. C-2521

NORTH CAROLINA PROFESSIONAL SEAL 11268 ENGINEER BETSY S. COX
12/18/2015

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE ON SR 1156
(HARPER RENN ROAD) OVER
OWEN CREEK BETWEEN
SR 1139 AND SR 1157
27'-10" CLEAR ROADWAY - 75° SKEW

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-1
1			3					TOTAL SHEETS
2			4					16

DRAWN BY: S.D. COOPER DATE: 4-15
CHECKED BY: B.S. COX DATE: 4-15
DESIGN ENGINEER OF RECORD: B.S. COX DATE: 4-15

PROJ:17BP.5.R.52

12/17/2015 2:29:02 PM G:\Projects\2014\17BP5R52 (Granville 93)\Structures\Drawings\Final\Granville 93_smu_gd.dgn