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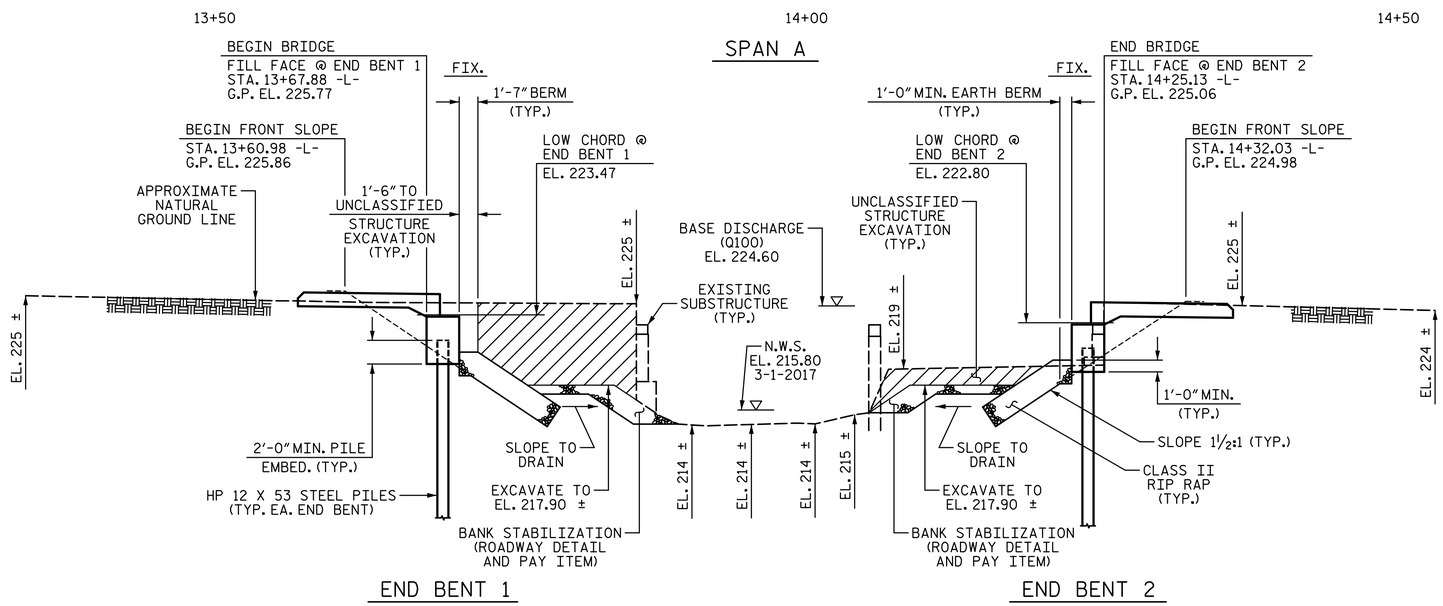
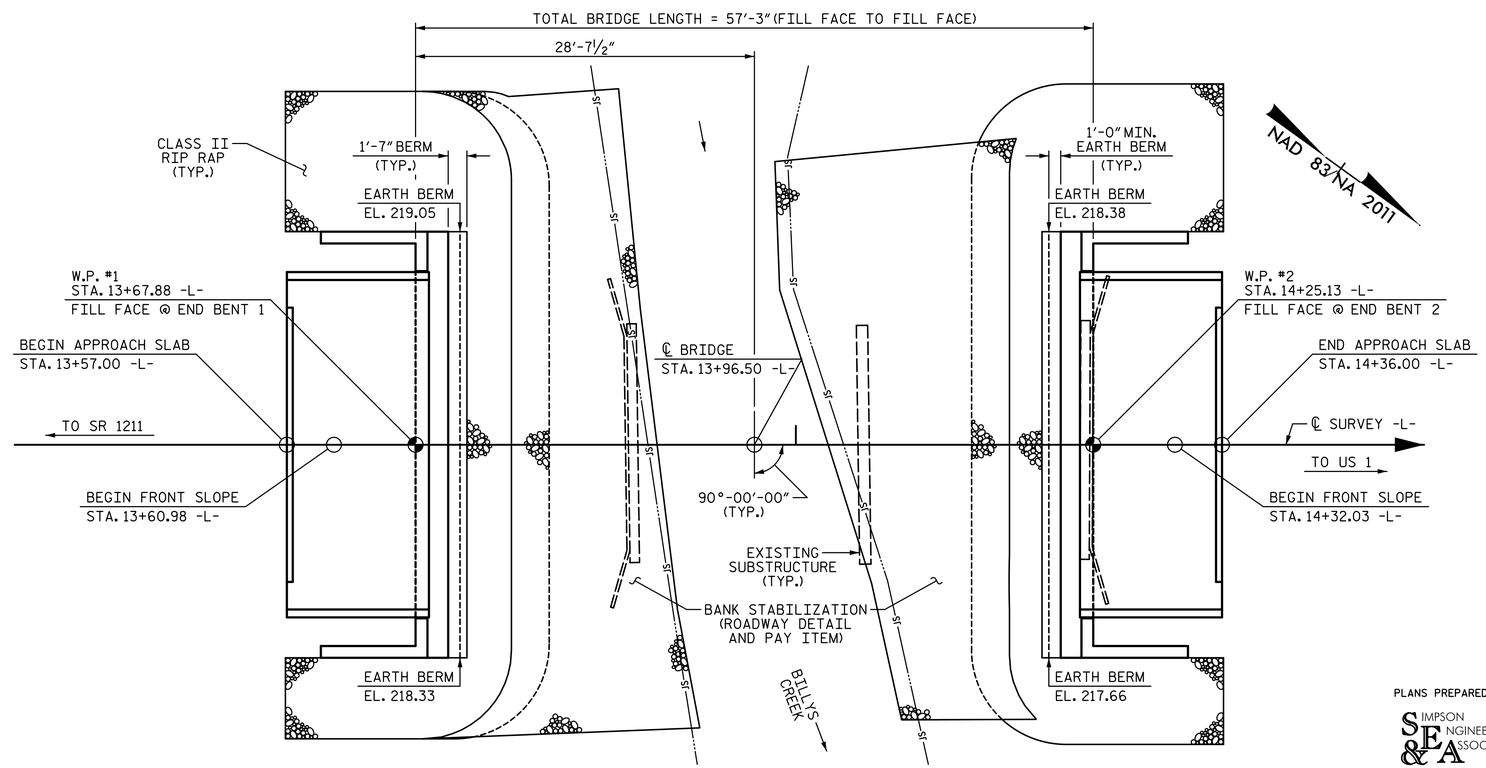


SECTION ALONG ℄ SURVEY -L-



PLAN

(PILES NOT SHOWN IN PLAN VIEW)

(-)3.4143% (-)1.2367%

PVI STA. 12+70.00
EL. = 226.98
VC = 140'

(-)1.2367% (+)1.9625%

PVI STA. 15+70.00
EL. = 223.27
VC = 160'

GRADE DATA -L-

HYDRAULIC DATA:

DESIGN DISCHARGE	= 1600 CFS
FREQUENCY OF DESIGN FLOOD	= 25 YEAR
DESIGN HIGH WATER ELEVATION	= 223.8
DRAINAGE AREA	= 6.3 SQ. MI.
BASE DISCHARGE (Q 100)	= 2414 CFS
BASE HIGH WATER ELEVATION	= 224.6

OVERTOPPING FLOOD DATA:

OVERTOPPING DISCHARGE	= 2400
FREQUENCY OF OVERTOPPING FLOOD	= 100± YEAR
OVERTOPPING FLOOD ELEVATION	= 224.4 ✱✱

✱✱ OVERTOPPING OCCURS AT ROADWAY SAG AT STA. 15+52.00 -L- AT ROADWAY SUPER HIGH (LEFT) SIDE

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PROJECT NO. 17BP.5.R.70
FRANKLIN COUNTY
STATION: 13+96.50 -L-

SHEET 1 OF 2 REPLACES BRIDGE #28

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON SR 1210
(MONTGOMERY RD)
OVER BILLYS CREEK
BETWEEN SR 1211 AND US 1

27'-10" CLEAR ROADWAY - 90° SKEW

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
7/9/2021

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

SHEET NO. S-1
TOTAL SHEETS 15

DRAWN BY: S.D. COOPER DATE: 6-21
CHECKED BY: B.S. COX DATE: 6-21
DESIGN ENGINEER OF RECORD: B.S. COX DATE: 6-21

PROJ:17BP.5.R.70

7/8/2021 2:05:30 PM G:\Projects\2016\Division 5 (Mott Macdonald)\17BP5R70 Franklin #28 (90 21CS VCB)\Structures\Drawings\Final\401_17BP5R70_SMU_GD.dgn