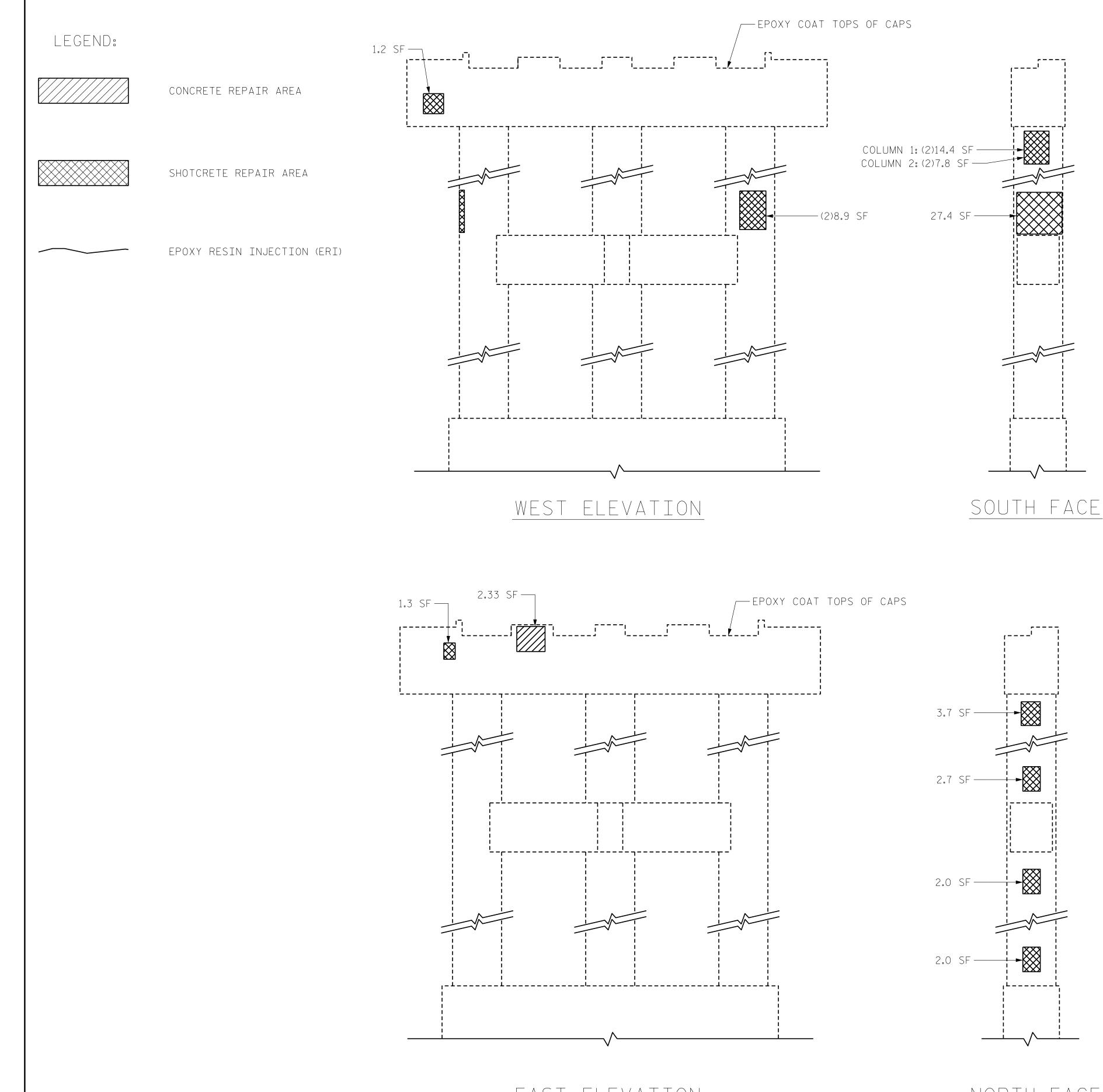
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DRAWN BY :	OMAR M.KHALAFALLA	DATE : <u>10/2018</u>
CHECKED BY :	DIEGO A.AGUIRRE	DATE : <u>10/2018</u>
DESIGN ENGINEER	OF RECORD :	DATE : <u>10/2018</u>



## NORTH FACE

DOCUMENT	NO
FINAL	_ UN
SIGNATU	JRES

NOTES:

ENGINEER.

AS-BUILT REPAIR QUANTITY TABLE							
	QUANTITIES						
	ESTI			ACTUAL			
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.			
CAP/FOOTING	2.5	1.3					
COLUMN/PILE	100.0	50.0					
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.			
* CAP	2.3	1.2					
EPOXY RESIN INJECT	LIN.FT.		LIN.FT.				
САР	_						
COLUMN/PILE	_						
PILE REPAIR JACKET		LIN.FT.		LIN.FT.			
INTEGRAL PILE JACKET		_					
EPOXY COATING	AREA SQ.FT.		AREA SQ.FT.				
CAP 14		13					

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE.MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.FOR REPAIR DETAILS, SEE "CONCRETE RESTORATION DETAILS - SUBSTRUCTURE" SHEET.

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE.IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

CONCRETE COVER FOR EXTERIOR BARS IN THE CAP IS 3"ON THE BOTTOM FACE,2" ELSEWHERE, AND 2"ON THE COLUMNS PER EXISTING BRIDGE PLANS. ACTUAL CONCRETE COVER SHALL BE DETERMINED BY THE CONTRACTOR AND PRESENTED TO THE ENGINEER PRIOR TO BEGINNING SCARIFICATION.

CURRENT AVERAGE COVER IS EXPECTED TO BE FROM 2"TO 3"ON THE CAP AND FROM  $1^{l}\!/_{2}$ " To 2"ON THE COLUMNS BASED ON VISUAL INSPECTION.

FOR CONCRETE AND SHOTCRETE REPAIRS, SEE "CONCRETE RESTORATION DETAILS" SHEET 3 OF 3.

ALL DEFECT QUANTITIES ON STRUTS AND COLUMN FOOTINGS ARE LISTED WITH THE QUANTITIES FOR THE CAP.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE

SHOTCRETE REPAIRS TO THE BENT CAP MAY REQUIRE BRIDGE JACKING.FOR BRDIGE JACKING, SEE SPECIAL PROVISIONS.

FOR EPOXY COATING, SEE SPECIAL PROVISIONS.

`SEAL 043777

9/3/2020

\* QUANTITIES OF CONCRETE REPAIR AREAS ARE ANTICIPATED UNDER BEARING AREAS.DUE TO LACK OF INFORMATION, ALL AREAS ARE NOT KNOWN.QUANTITY INCLUDES CONTINGENCIES AND ARE ANTICIPATED TO BE SUFFICIENT FOR ACTUAL QUANTITIES ENCOUNTERED.FOR CONCRETE REPAIRS SEE "CONCRETE RESTORATION DETAILS" SHEETS.

> PROJECT NO. <u>15BPR.24</u> <u>BRUNSWICK</u> COUNTY

BRIDGE NO. 090013

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

SUBSTRUCTURE

CONCRETE REPAIRS

BENT 11

	KISINGER CAMPO & ASSOCIATES		REVISIONS				SHEET NO.	
CONSIDERED	301 FAYETTEVILLE ST., SUITE 1500	N0.	BY:	DATE:	NO.	BY:	DATE:	S-35
ESS ALL (919)	RALEIGH, NC 27601 (919) 882-7839	1			3			TOTAL SHEETS
	LICÉNSE #: C-1506	2			Ą			45