

AS-BUILT REPAIR QUANTITY TABLE QUANTITIES ESTIMATE ACTUAL SHOTCRETE REPAIRS CAP/FOOTING 31.1 15.6 COLUMN/PILE AREA SQ. F VOLUME CU.FT. CONCRETE REPAIRS 2.2 \* CAP 1.1 EPOXY RESIN INJECTION LIN. FT. LIN. FT COLUMN/PILE PILE REPAIR JACKET LIN. FT. LIN. FT. INTEGRAL PILE JACKET AREA SQ. FT. EPOXY COATING 120 CAP

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.

## NOTES:

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  $1\frac{1}{2}$ " 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

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.

\* 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. 15BPR.24 B<u>RUNSWICK</u> COUNTY BRIDGE NO. 090013



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE CONCRETE REPAIRS BENT 5

KISINGER CAMPO & ASSOCIATES										
		REVISIONS								
FAYETTEVILLE ST., SUITE 1500	NO.	BY:	DATE:	NO.	BY:	DATE:	S-29			
EIGH, NC 27601 0) 882-7839	1			3			TOTAL SHEETS			
NSE #: C-1506	2			ΔL			1 45			

OCUMENT NOT CONSIDERED | 301 FA FINAL UNLESS ALL SIGNATURES COMPLETED

DESIGN ENGINEER OF RECORD : <u>JACOB H. DUKE</u> DATE : <u>10/2018</u>