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WEST ELEVATION

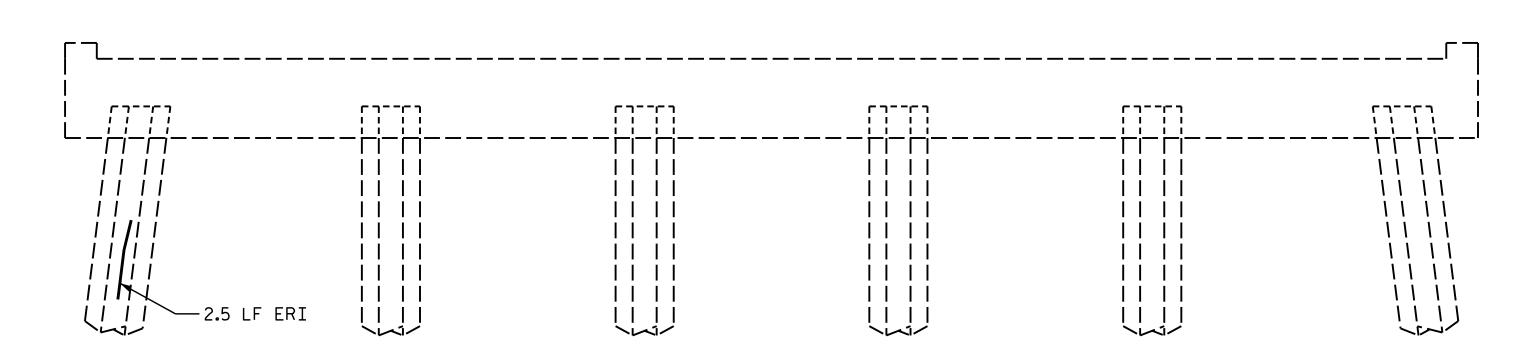
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SOUTH ELEVATION



NORTH ELEVATION

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EAST ELEVATION

SEAL 043571

BRUNSWICK COUNTY BRIDGE NO.____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

PROJECT NO. 15BPR.25

AS-BUILT REPAIR QUANTITY TABLE

AREA SQ.FT

AREA SQ.FT

ESTIMATE

VOLUME CU.FT.

LIN.FT.

2.5

LIN. FT.

BENT 16

SHOTCRETE REPAIRS

COLUMN/PILE

COLUMN/PILE

BEGINNING SCARIFICATION.

DETAILS - SUBSTRUCTURE SHEET.

WITH THE QUANTITIES FOR THE CAP.

THE APPROVAL OF THE ENGINEER.

REPAIRS SEE CONCRETE RESTORATION DETAILS.

PILE REPAIR JACKET

CONCRETE REPAIRS

EPOXY RESIN INJECTION

GALVANIC STRUCTURAL C.P. JACKET

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE. MINIMUM OF 1"BEHIND REBAR

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,

LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

FOR PILE CP JACKET REPAIRS, PRIOR TO ORDERING JACKETS, PERFORM

A PILE JACKET SURVEY WITH THE ENGINEER AND THE ENGINEER OF RECORD

THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE

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

THE CONTRACTOR AND PRESENTED TO THE ENGINEER PRIOR TO

CURRENT AVERAGE COVER IS EXPECTED TO BE FROM 2"TO 3"ON THE

SEE TITLE SHEET FOR PROJECT CARDINAL DIRECTION DESIGNATION.

FOR CONCRETE AND SHOTCRETE REPAIRS, SEE CONCRETE RESTORATION

* 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

ALL DEFECT QUANTITIES ON STRUTS AND COLUMN FOOTINGS ARE LISTED

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH

CAP AND FROM $2^{1}/2$ " TO 3" ON THE COLUMNS BASED ON VISUAL INSPECTION.

TO DETERMINE PILE JACKET LOCATIONS AND LENGTHS.

AND MINIMUM 2"CLEARANCE TO SAWCUT. FOR REPAIR DETAILS. SEE "CONCRETE RESTORATION DETAILS - SUBSTRUCTURE" SHEET.

CAP

CAP

CAP

NOTES:

QUANTITIES

ACTUAL

AREA SQ.FT.

VOLUME CU.FT.

LIN. FT.

LIN.FT

SUBSTRUCTURE CONCRETE REPAIRS BENT 16

BY:

SHEET NO.

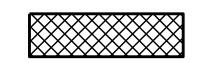
S-54

TOTAL SHEETS

DATE:

REVISIONS DATE: BY: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONCRETE REPAIR AREA



SHOTCRETE REPAIR AREA

EPOXY RESIN INJECTION (ERI)

DATE : 03-2018 DESIGN ENGINEER OF RECORD : SAMUEL L. CULLUM DATE : 03-2018

__ DATE : <u>03-2018</u>

4800 SIX FORKS ROAD SUITE 120

RALEIGH, NC 27609

AARON J. MCMILLAN

JACOB H. DUKE

& ASSOCIATES (919) 882-7839

DRAWN BY : ___

CHECKED BY : ___

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