

NOTES:

THE PURPOSE OF THIS REPAIR IS TO VERTICALLY ALIGN THE ADJACENT FINGER PLATES IN THE WESTBOUND LANES AT THE EAST TOWER OF THE LIFT SPAN.

EXCEPT FOR HYDRO-DEMOLITION, REPAIR WORK SHOWN ON THIS SHEET INVOLVED WITH REMOVAL AND PLACEMENT OF CONCRETE SHALL BE PAID FOR UNDER THE CLASS III SURFACE PREPARATION PAY ITEM. FOR CLASS III SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

HYDRO-DEMOLITION SHALL BE PAID FOR UNDER THE HYDRO-DEMOLITION PAY ITEM. FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS.

REPAIR WORK SHOWN ON THIS SHEET INVOLVED WITH RESETTING AND SHIMMING THE FINGER PLATE SHALL BE PAID FOR UNDER THE STRUCTURAL STEEL FOR REPAIRS PAY ITEM. FOR STRUCTURAL STEEL FOR REPAIRS, SEE SPECIAL PROVISIONS.

FINGER PLATE ON THE TOWER SPAN SIDE OF JOINT SHALL BE RAISED TO MATCH THE ELEVATION OF THE FINGER PLATE ON THE LIFT SPAN WHEN IN THE FULLY SEATED POSITION.

IT IS ESTIMATED THAT THE FINGER PLATE ON THE TOWER SPAN SIDE WILL NEED TO BE RAISED 1 3/4" AT THE OUTSIDE CURB AND 3/4" AT THE INSIDE CURB.

TOTAL NUMBER OF SHIM LOCATIONS: 26

SHIFT REINFORCEMENT AS REQUIRED TO PROVIDE 2" CLEAR TO EXISTING STRAPS.

THE EXISTING REINFORCEMENT IN THIS AREA IS UNKNOWN. THE ENGINEER MAY ADJUST THE PROPOSED REINFORCEMENT AS NECESSARY TO ACCOMMODATE THE EXISTING REINFORCEMENT.

CONTRACTOR SHALL USE AS FEW SHIMS AS POSSIBLE AT EACH SHIM LOCATION.

CONTRACTOR SHALL VERIFY SHIM PLATE PLAN DIMENSIONS PRIOR TO FABRICATION.

CLEANING AND PAINTING IN THE REPAIR AREA SHOWN SHALL NOT BE PERFORMED UNTIL AFTER THE FINGER PLATE IS REPOSITIONED AND NEW BOLTS AT SHIM PACKS ARE TIGHTENED.

CONTRACTOR SHALL USE CAUTION DURING CONCRETE REMOVAL OPERATIONS TO PREVENT DAMAGE TO EXISTING FLOORBEAM AND OTHER METALWORK TO REMAIN.

* IF AN EXISTING STRAP IS DAMAGED OR BROKEN DURING CONCRETE REMOVAL, REMOVE THE EXISTING STRAP AND REPLACE IT WITH (2) 3/4" Ø X 5" SHEAR STUD ANCHORS AT THE SAME ELEVATION AS THE REPLACED STRAP. STUD ANCHORS SHALL CONFORM TO AASHTO M169, GRADES 1010 THROUGH 1020 OR APPROVED EQUAL.

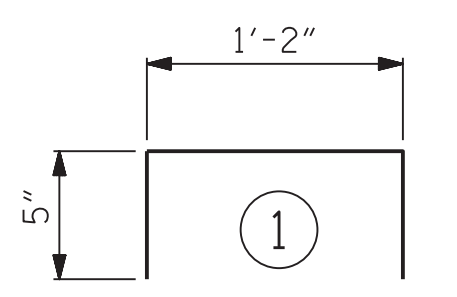
BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	2	#5	STR	26'-6"	55
S1	41	#4	1	2'-0"	55

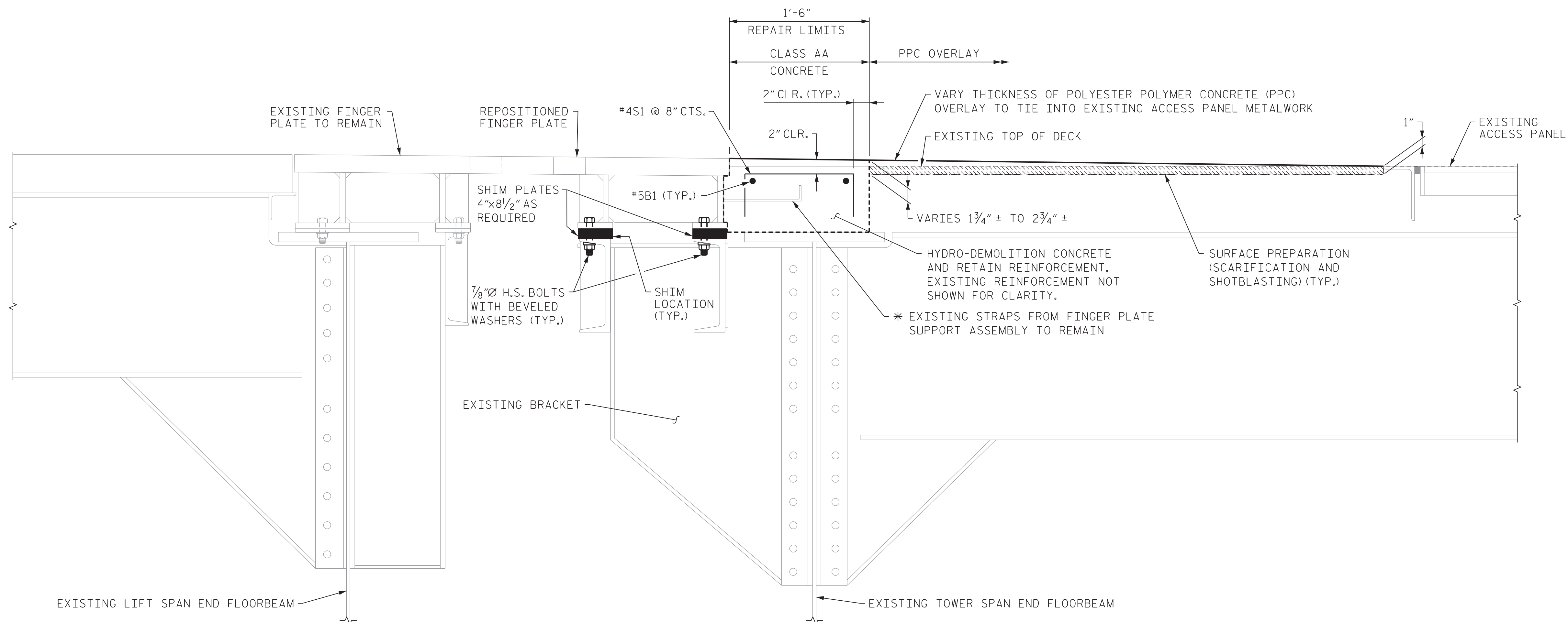
EPOXY-COATED REINFORCING STEEL	110 LBS.
CLASS AA CONCRETE	1.3 C.Y.

CLASS III SURFACE PREPARATION	4.5 S.Y.
HYDRO-DEMOLITION	4.5 S.Y.
STRUCTURAL STEEL FOR REPAIRS	350 LBS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.



SECTION THROUGH FINGER JOINT AT EAST TOWER

PROJECT NO. 15BPR.15
NEW HANOVER COUNTY

STATION: _____

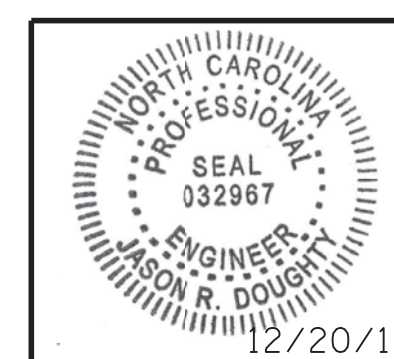
SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

JOINT REPAIR DETAILS



333 FAYETTEVILLE STREET, SUITE 505
 RALEIGH, NC 27601
 NC LICENSE NO. C-2979



DocuSigned by:
 Jason R Doughty
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-20
2			4			TOTAL SHEETS 66

12/21/2017 400_039_368202_SMU_JT53_640013.dgn

DESIGNED BY:	B. LOFLIN	DATE:	DEC 2017
DRAWN BY:	K. WHITE	DATE:	DEC 2017
CHECKED BY:	J. DOUGHTY	DATE:	DEC 2017
DESIGN ENGINEER OF RECORD:	J. DOUGHTY	DATE:	DEC 2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED