

**NOTES:**

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

REPAIR WORK SHOWN ON THIS SHEET INVOLVED WITH RESETTING AND SHIMMING THE FINGER PLATE ON THE LIFT SPAN SIDE OF THE JOINT SHALL BE PAID FOR UNDER THE REPLACEMENT OF STRUCTURAL STEEL PAY ITEM.

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

IT IS ESTIMATED THAT THE FINGER PLATE ON THE LIFT SPAN SIDE WILL NEED TO BE RAISED APPROX. 3/4". THE CONTRACTOR SHALL FIELD VERIFY THE HEIGHT DIFFERENCE BETWEEN THE TOP OF THE FINGER PLATE ON THE TOWER SPAN SIDE TO FURTHER VERIFY THE VARIATIONS IN SHIM THICKNESSES PRIOR TO BEGINNING CONSTRUCTION.

TOTAL NUMBER OF SHIM LOCATIONS: 14 (7 FOR FRONT SHIM AND 7 FOR BACK SHIM)

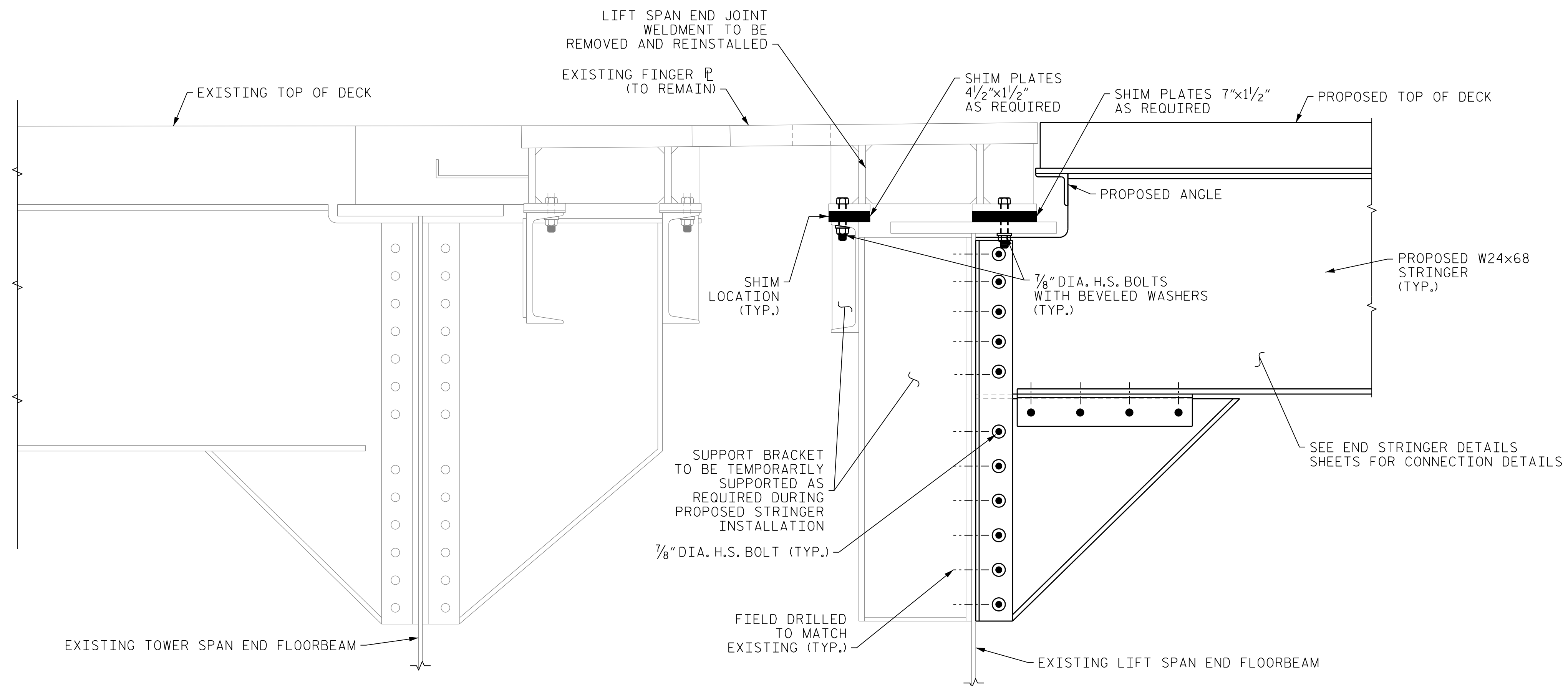
CONTRACTOR SHALL VERIFY SHIM PLATE PLAN DIMENSIONS PRIOR TO FABRICATION.

CONTRACTOR SHALL MINIMIZE THE NUMBER OF SHIM PLATES USED AT EACH SHIM LOCATION.

JOINT SHIM PLATES AND BOLTS, NUTS, AND WASHERS FOR SHIM PLATES SHALL BE SUPPLIED BY THE CONTRACTOR.

**BOLT LEGEND:**

- EXISTING BOLT
- NEW BOLT IN EXISTING HOLE OR IN HOLE FIELD DRILLED TO MATCH EXISTING HOLE
- NEW BOLT IN NEW HOLE



**SECTION THROUGH FINGER JOINT AT WEST TOWER**

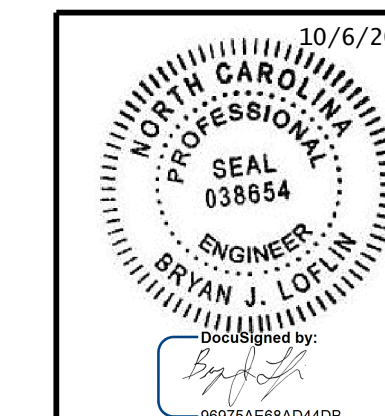
THIS REPAIR WORK SHALL BE PERFORMED ONLY ON THE SOUTHWEST HALF OF THE BRIDGE - EASTBOUND LANES ON THE LIFT SPAN SIDE OF THE JOINT.

PROJECT NO. 15BPR.102.3  
NEW HANOVER COUNTY  
 BRIDGE NO. \_\_\_\_\_

640013

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**JOINT REPAIR  
 DETAILS**



333 FAYETTEVILLE STREET, SUITE 500  
 RALEIGH, NC 27601  
 NC LICENSE NO. C-2979

**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-20
2			4			TOTAL SHEETS 21

10/6/2023 401.039.15BPR.102\_SML\_S513.20.dgn

DESIGNED BY: D. KO DATE: JUL 2023  
 DRAWN BY: R. JOHNSON DATE: JUL 2023  
 CHECKED BY: M. NIFONG DATE: AUG 2023  
 DESIGN ENGINEER OF RECORD: B. LOFLIN DATE: SEP 2023