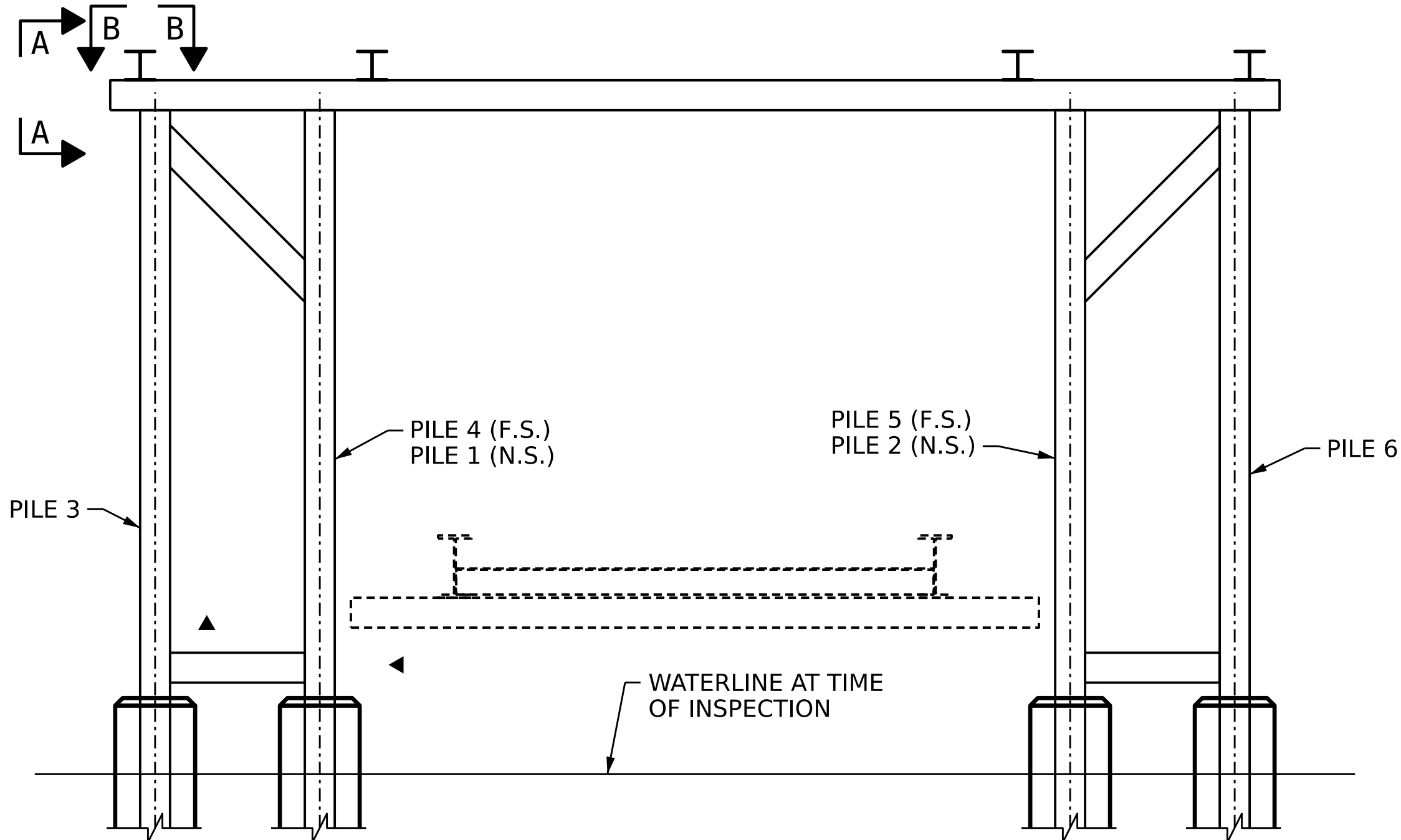




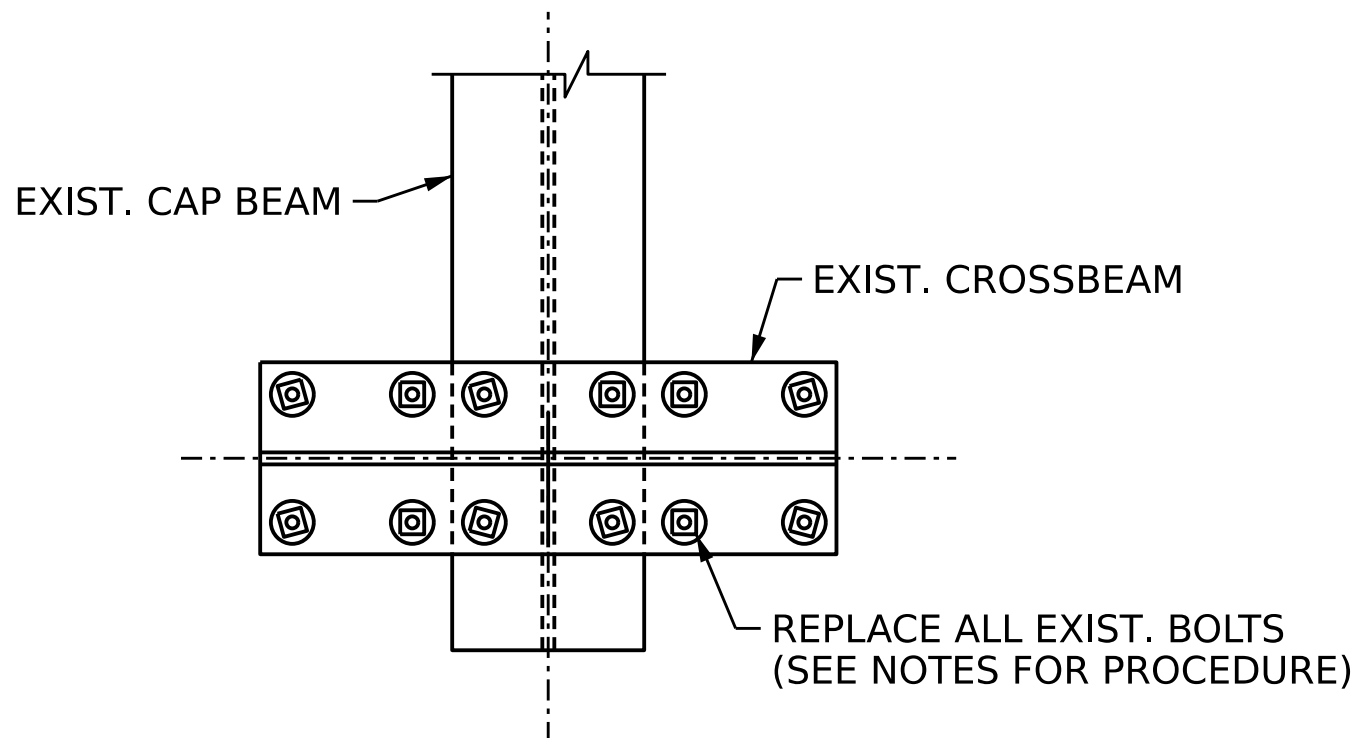
LEFT CROSS BEAM AT GANTRY CAP BEAM



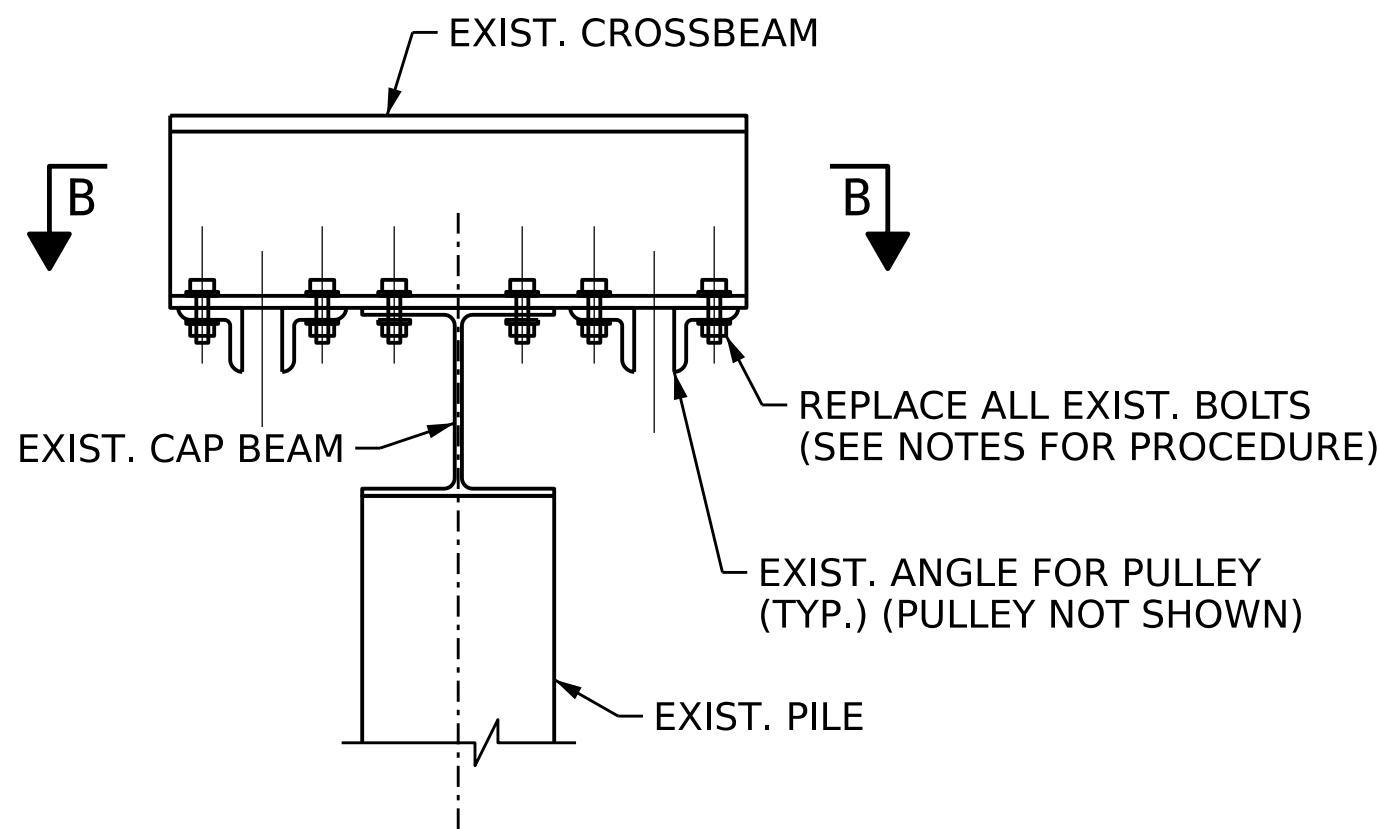
LEFT CROSS BEAM AT GANTRY CAP BEAM



ELEVATION OF LIFT BENT



SECTION B-B



VIEW A-A

NOTES

IMAGE IS TAKEN FROM SPECIAL INSPECTION REPORT DATED 11/02/2023. PRIOR TO BEGINING ANY REPAIR WORK, FIELD VERIFY EXISTING CONDITIONS. IF EXISTING CONDITIONS VARY SIGNIFICANTLY FROM IMAGES SHOWN, NOTIFY THE ENGINEER IN WRITING PRIOR TO ORDERING MATERIALS OR BEGINNING REPAIR WORK.

HIGH-STRENGTH STRUCTURAL STEEL BOLTS SHALL BE ASTM F3125 GRADE A325 WITH ASTM A563 GRADE DH NUTS AND ASTM F436 HARDENED WASHERS, TYPE 1 OR 3. FASTENER HARDWARE ALL SHALL BE HOT-DIP GALVANIZED PER ASTM F2329.

SURFACE PREPARATION FOR WELDING AND/OR PAINTING: REMOVE RUST, PAINT, AND OTHER CONTAMINANTS DOWN TO BARE STEEL TO SSPC-SP3 STANDARDS. VACUUM-ASSISTED HAND POWER TOOLS SHALL BE USED FOR CAPTURE AND CONTAINMENT OF CONTAMINANTS. SAND BLASTING SHALL NOT BE PERMITTED OVER WATER.

CROSS BEAM AND PULLEY BOLT REPLACEMENT REPAIR PROCEDURE:

1. CLEAN AND PREPARE THE SURFACE A MINIMUM RADUIS OF 3" AROUND EACH EXISTING BOLT TO BE REPLACED.
2. TEMPORARILY SUPPORT THE LIFT BEAM AND COUNTERWEIGHT SYSTEM TO ELIMINATE LOAD APPLIED FROM THE CABLE TO THE PULLEY.
3. ONE AT A TIME, REMOVE EXISTING DETERIORATED BOLTS AND INSTALL NEW ¾"- DIAMETER HIGH-STRENGTH BOLTS WITH DOUBLE NUTS.
4. FULLY TORQUE ALL NEW BOLTS.
5. PAINT THE EXPOSED STEEL AND CONNECTION COMPONENTS IN THE REPAIR AREA IN ACCORDANCE WITH SECTION 442-12 OF THE STANDARD SPECIFICATIONS, USING PAINT SYSTEM 4 FROM NCDOT'S STRUCTURAL STEEL SHOP COATINGS PROGRAM DOCUMENT, WITH TOPCOAT COLOR MATCHED TO THE EXISTING TOPCOAT COLOR.

PROJECT NO. **15BPR.164**
BEAUFORT COUNTY
TERMINAL: **AURORA**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

LIFT BENT
REPAIR DETAILS



DAVID KNICKERBOCKER

DES BY: <u>B. BINOWSKI</u>	DATE : <u>11/2025</u>	DWG BY: <u>B. PETERSON</u>	DATE : <u>11/2025</u>
DES CHK: <u>D. KNICKERBOCKER</u>	DATE : <u>11/2025</u>	CHK BY: <u>D. KNICKERBOCKER</u>	DATE : <u>11/2025</u>

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO. S1-03
NO.	BY:	DATE:	NO.	BY:	DATE:	
1	--	--	3	--	--	TOTAL SHEETS 34
2	--	--	4	--	--	