

BEARING REPAIRS QUANTITY TABLE

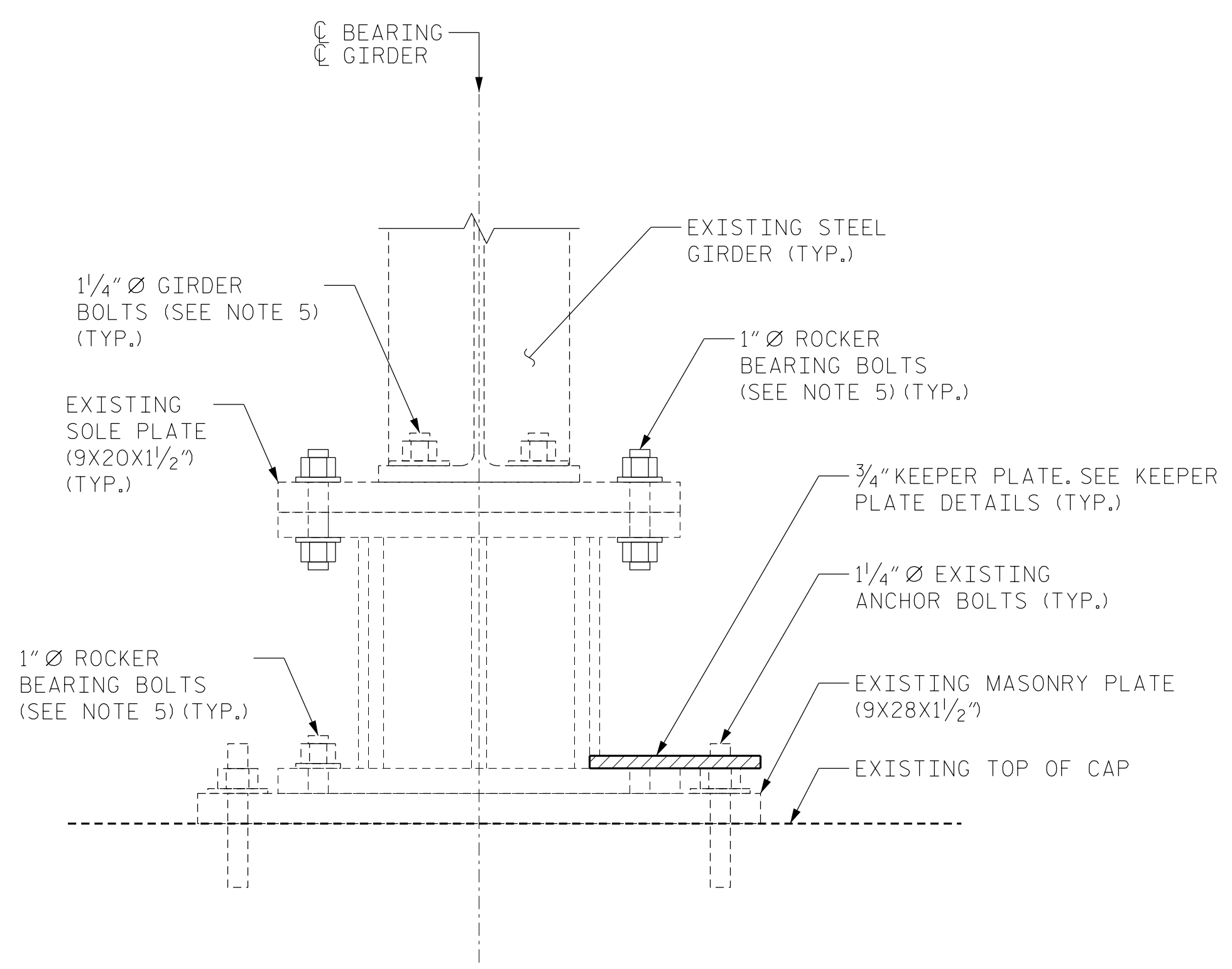
LOCATION			ESTIMATE	ACTUAL
SPAN	BENT	BEAM	(EA)	(EA)
1	END BENT 1	ALL	5	
6	BENT 6	3 & 4	2	
7	BENT 6	N/A	0	
11	END BENT 2	N/A	0	

NOTES:

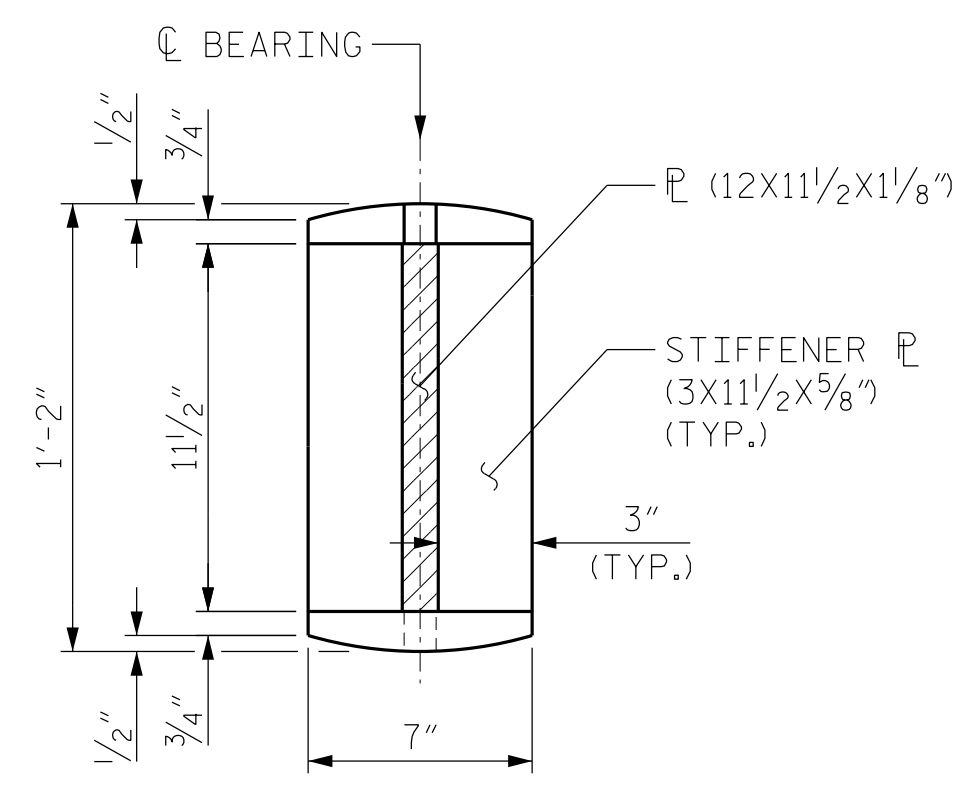
- WORK THIS SHEET WITH "SUPERSTRUCTURE REPAIRS" SHEETS.
- FOR CLEANING & PAINTING EXISTING BEARINGS WITH HRSCA, SEE SPECIAL PROVISIONS.
- BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563 GRADE C. USE MATERIAL COMPATIBLE WASHERS, AS NEEDED.
- BOLT, NUTS, AND WASHERS SHALL BE INCIDENTAL TO THE BEARING REPAIRS PAY ITEM.
- FOR BEARING REPAIRS, SEE SPECIAL PROVISIONS.
- FOR BRIDGE JACKING, SEE SPECIAL PROVISIONS AND "BRIDGE JACKING" DETAIL SHEET.

BEARING REPAIRS SEQUENCE:

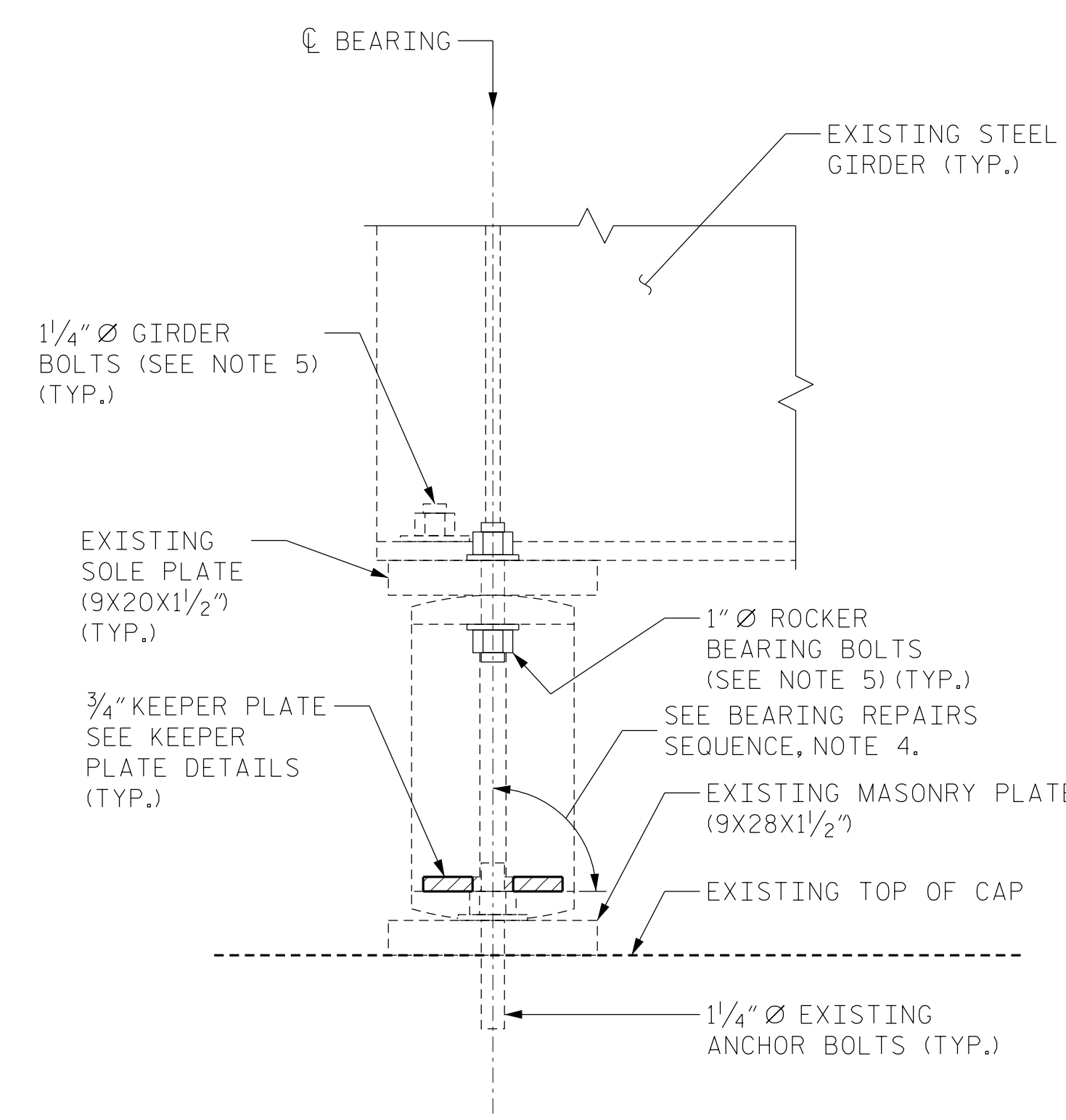
- CLEAN AND REMOVE PACK RUST FROM ROCKER BEARING AND CONNECTING PLATES. IF, AFTER THE BEARING CLEANING PROCESS, VISIBLE STEEL CRACKS OR MORE THAN 30% SECTION LOSS ARE OBSERVED, OR IF PERMANENT DEFORMATIONS DUE TO SECTION LOSS AND PACK RUST DO NOT ALLOW ROCKER BEARINGS TO FUNCTION APPROPRIATELY, ALL WORK SHALL STOP AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- PERFORM JACKING OPERATIONS AS INDICATED IN THE "JACKING DETAILS" SHEET.
- DISCONNECT BOTH TOP AND BOTTOM ROCKER BEARING BOLTS.
- ALIGN AND/OR ROTATE ROCKER BEARINGS SUCH THAT THE VERTICAL AXIS SHALL BE AT 90° WITH RESPECT TO THE TOP FACE OF THE CAP, WITH A TOLERANCE OF +/- 2°. IN PLAN VIEW, THE CL OF THE BEARING ASSEMBLY SHALL BE ALIGNED WITH THE C GIRDER AND C BEARING LINES ON THE CAP. CONDUCT THE WORK WHEN TEMPERATURES ARE BETWEEN 45° F AND 75° F. WORK WITH THE ENGINEER TO ADJUST AS REQUIRED WHEN WORKING UNDER EXTREME TEMPERATURES.
- REPLACE MISSING/BROKEN BOLTS IN KIND AT THE GIRDER-SOLE PLATE CONNECTION, AND AT TOP ROCKER BEARING CONNECTIONS; BOLTS SHALL BE FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. FOR BOTTOM ROCKER BEARING CONNECTIONS, WELD A KEEPER PLATE TO BOTH SIDES OF THE ROCKER BEARING BOTTOM FLANGE.
- CONCLUDE JACKING OPERATIONS AS INDICATED IN THE "JACKING DETAILS" SHEET.
- ENSURE THAT THE BEARINGS ARE NOT LEFT UNRESTRAINED DURING TEMPERATURE MOVEMENTS. IF THE CONTRACTOR MUST DE-MOBILIZE, WORK WITH THE ENGINEER TO PROVIDE TEMPORARY REPLACEMENT OF THE BOLTS TO PROHIBIT UNWANTED ROTATION OF THE ROCKER BEARINGS.



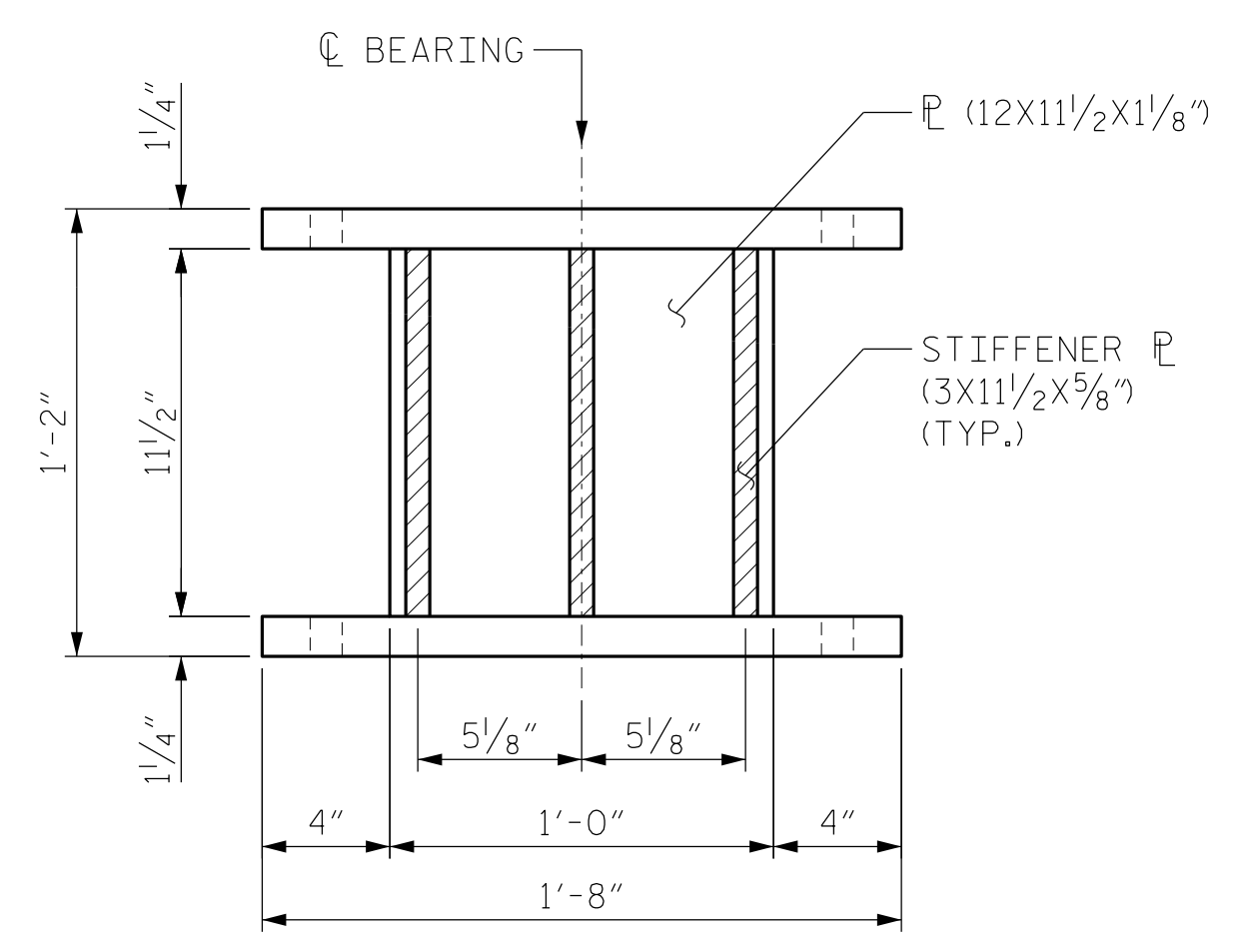
TYPICAL SECTION
(PROPOSED)



ROCKER BEARING DETAILS
(AS-BUILT DIMENSIONS)



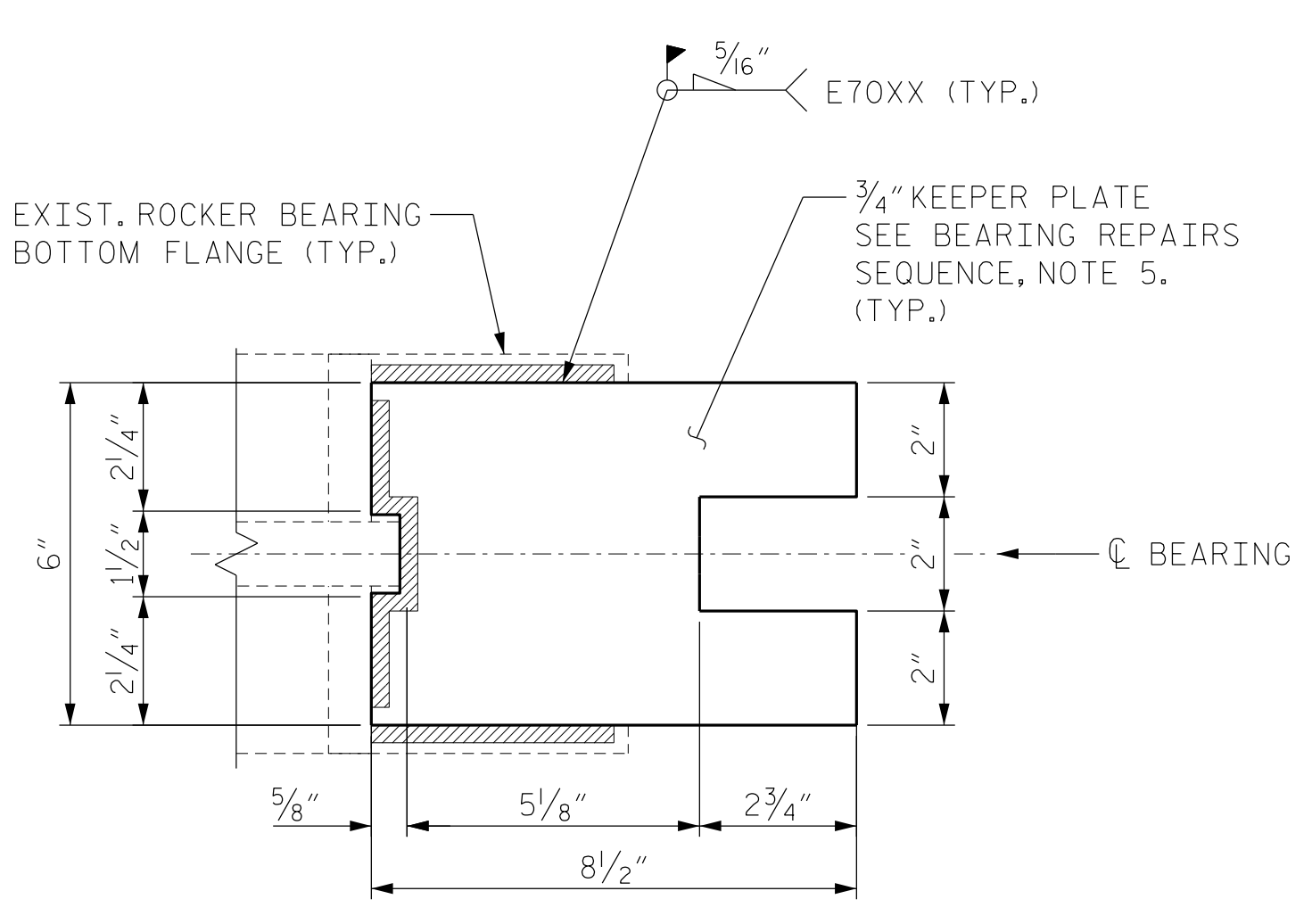
TYPICAL ELEVATION
(PROPOSED)



ROCKER BEARING DETAILS
(AS-BUILT DIMENSIONS)

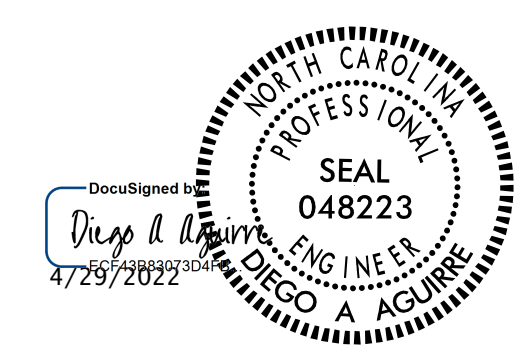
EXISTING ROCKER BEARINGS

- TYPICAL DAMAGE INCLUDES:
- CORROSION AND SECTION LOSS THROUGHOUT
 - MISSING/BROKEN ROCKER BEARING BOLTS
 - MISALIGNED/ROTATED AND/OR SHIFTED ROCKER BEARINGS



KEEPER PLATE DETAIL
(PROPOSED - PLAN)

PROJECT NO. I-5915B
IREDELL COUNTY
 BRIDGE NO. 480007



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

BEARING REPAIRS

DRAWN BY : DIEGO A. AGUIRRE DATE : 01/2022
 CHECKED BY : JACOB H. DUKE DATE : 01/2022
 DESIGN ENGINEER OF RECORD: DIEGO A. AGUIRRE DATE : 01/2022

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S6-13
2			4			24