	NAME	QNTY.	TABLE OF CENTER WEDG DESCRIPTION OF WORK			SUPPLEMENTAL REQUIREMEN	IT REMARKS
ECE	NAME	QINTY.	DESCRIPTION OF WORK		DESIGNATION		
208	WORM HOUSING TOP	1	REHABILITATE EXISTING HOUSING	N/A	N/A	N/A	SEE NOTES 5
208	WORM HOUSING CENTER	1	REHABILITATE EXISTING HOUSING	N/A	N/A	N/A N/A	SEE NOTES 5
210	WORM HOUSING BOTTOM	1	REHABILITATE EXISTING HOUSING	N/A	N/A	N/A N/A	SEE NOTES 5
		1					
211	BOLTS FOR 208 AND 209	4	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND
212	BOLTS FOR 208 AND 209	4	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND
213	BOLTS FOR 209 AND 210	6	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND
214	BASE BOLTS FOR 208 AND 209	8	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND
215	SHIMS FOR 208 AND 209	4-SETS	REPLACE EXISTING SHIMS	STAINLESS STEEL	ASTM A 240	N/A	SEE NOTES 1 AND 2
216 217	OUTPUT BUSHING INPUT BUSHING	2 2	REPLACE EXISTING BUSHINGS REPLACE EXISTING BUSHINGS	CAST BRONZE CAST BRONZE	ASTM B 22 C91100 ASTM B 22 C91100	N/A N/A	SEE NOTE 1 SEE NOTE 1
221	OUTPUT SEAL RING	2	REHABILITATE EXISTING SEAL RINGS	N/A	N/A	N/A	SEE NOTE 5
222	BOLT FOR 221	8	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND
223	OIL SEAL FOR 221	2	REPLACE EXISTING OIL SEALS) (OR APPROVED EQUAL)		COMMERCIAL
				N/A	, 	N/A	
224	INPUT SEAL RING	2	REHABILITATE EXISTING SEAL RINGS		N/A	N/A	SEE NOTE 5
226	BOLTS FOR 224	8	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND
227	OIL SEAL FOR 224	2	REPLACE EXISTING OIL SEALS	GARLOCK #63 X 2170	(OR APPROVED EQUAL)	1	COMMERCIAL
229	WORM SHAFT	1	REPLACE EXISTING SHAFT	FORGED STEEL	ASTM A 668 CL. H	S6. MAG. PARTICLE TEST	SEE NOTE 1
230	WORM WHEEL SHAFT	1	REPLACE EXISTING SHAFT	FORGED STEEL	ASTM A 668 CL. H	S6. MAG. PARTICLE EXAM	SEE NOTE 1
231	WORM WHEEL	1	REPLACE EXISTING WORM WHEEL	CAST BRONZE	ASTM B 22 C90500	N/A	SEE NOTE 1
232	KEY FOR 231	1	REPLACE EXISTING KEY	FORGED STEEL	ASTM A 668 CL. K	N/A	SEE NOTE 1
241A	C.W. CRANK SHAFT	1	REPLACE EXISTING SHAFT	FORGED STEEL	ASTM A 434 CL. BC	N/A	SEE DETAIL SHT. NO
242A	C.W. CRANK SHAFT	1	REPLACE EXISTING SHAFT	FORGED STEEL	ASTM A 434 CL. BC	N/A	SEE DETAIL SHT. NO.
260	CENTER WEDGE SEAT	2	REHABILTATE EXISTING SEAT	N/A	N/A	N/A	SEE NOTE 6
.00 261	CENTER WEDGE	2	REHABILITATE EXISTING WEDGE	N/A	N/A	N/A N/A	SEE NOTE 6
		2					
262	PIN FOR 261	2	REHABILITATE EXISTING PIN			N/A	SEE NOTE 6
263	SET SCREW FOR 261	4	REPLACE EXISTING HARDWARE	STEEL	ASTM F 912	N/A	SEE NOTES 1, 3 AND
264	CENTER WEDGE GUIDE	2	REHABILITATE EXISTING GUIDE	N/A	N/A	N/A	SEE NOTES 2, 3, 4 AN
265	SHIM FOR 264	2-SETS	REPLACE EXISTING SHIMS	STAINLESS STEEL	ASTM A 240	N/A	SEE NOTES 1 AND 2
266	BASE BOLT FOR 264	12	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND
.87	CENTER WEDGE EYE BAR	2	REPLACE EXISTING EYE BARS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
288	CENTER WEDGE EYE BAR	2	REPLACE EXISTING EYE BARS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
289	SLEEVE NUT FOR 287, 288	2	REPLACE EXISTING SLEEVE NUTS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
290	NUT FOR 287	2	REPLACE EXISTING NUTS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
91	NUT FOR 288	2	REPLACE EXISTING NUTS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
293	CENTER WEDGE CONNECTING ROD	2	REPLACE EXISTING CONNECTING RODS	FORGED STEEL	ASTM A 668 CL. G	 N/A	SEE NOTE 1
294	CENTER WEDGE CONNECTING ROD	2	REPLACE EXISTING CONNECTING RODS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
295	SLEEVE NUT FOR 293, 294	2	REPLACE EXISTING SLEEVE NUTS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
296	NUT FOR 293	2	REPLACE EXISTING NUTS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
297	NUT FOR 294	2	REPLACE EXISTING NUTS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
298	BUSHING FOR 294	2	REPLACE EXISTING BUSHINGS	CAST BRONZE	ASTM B 22 C91100	N/A	SEE NOTE 1
300	CENTER WEDGE CRANK	2	REHABILITATE EXISTING CRANKS	N/A	N/A	N/A	SEE NOTE 6
301	KEY FOR 300	2	REPLACE EXISTING KEYS	FORGED STEEL	ASTM A 668 CL. K	N/A	SEE NOTE 1
302	SET SCREW FOR 300	2	REPLACE EXISTING HARDWARE	STEEL	ASTM F 912	N/A	SEE NOTES 1, 3 AND
02 03	CENTER WEDGE CRANK PIN	2	REHABILITATE EXISTING CRANK PIN	N/A	N/A	N/A N/A	SEE NOTE 6
803 804			REPLACE EXISTING PINS			N/A N/A	SEE NOTE 8
04 05	COTTER PIN FOR 303 WASHER FOR 303	2 2	REPLACE EXISTING PINS REPLACE EXISTING WASHERS	STAINLESS STEEL STEEL	ASTM A 276, TYPE 316 ASTM F 436	N/A N/A	SEE NOTE 1
20	CENTER WEDGE LEVER	2	REHABILITATE EXISTING LEVER	N/A	N/A	N/A	SEE NOTE 6
21	KEY FOR 320	2	REPLACE EXISTING KEYS	FORGED STEEL	ASTM A 668 CL. K	N/A	SEE NOTE 1
22	SET SCREW FOR 320	2	REPLACE EXISTING HARDWARE	STEEL	ASTM F 912	N/A	SEE NOTES 1, 3 AND
23 24	PIN FOR 293 AND 320 COTTER FOR 323 AND 329	2 8	REHABILITATE EXISTING PIN REPLACE EXISTING HARDWARE	N/A STAINLESS STEEL	N/A ASTM A 276, TYPE 316	N/A N/A	SEE NOTE 6 SEE NOTE 1
26	CENTER WEDGE LEVER	2	REHABILITATE EXISTING LEVER	N/A	N/A	N/A	SEE NOTE 6
327	KEY FOR 326	2	REPLACE EXISTING KEYS	FORGED STEEL	ASTM A 668 CL. K	N/A N/A	SEE NOTE 1
27 28			REPLACE EXISTING KEYS REPLACE EXISTING HARDWARE	STEEL			
28 29	SET SCREW FOR 326 PIN FOR 288 AND 326	2 2	REPLACE EXISTING HARDWARE REHABILITATE EXISTING PIN	N/A	ASTM F 912 N/A	N/A N/A	SEE NOTES 1, 3 AND SEE NOTE 6
24					N1/A		
31	CENTER WEDGE JACK SHAFT	1	REHABILITATE EXISTING JACK SHAFT	N/A	N/A	N/A	SEE NOTE 6
32	CENTER WEDGE JACK SHAFT	1	REHABILITATE EXISTING JACK SHAFT	N/A	N/A	N/A	SEE NOTE 6
33	COLLAR FOR 331 & 332	2	REHABILITATE EXISTING COLLAR	N/A	N/A	N/A	SEE NOTE 6
34	CENTER WEDGE JACK SHAFT BEARING	4	REHABILITATE EXISTING BEARING	N/A	N/A	N/A	SEE NOTE 7
35	BUSHING FOR 334	4	REPLACE EXISTING BUSHINGS	CAST BRONZE	ASTM B 22 C93700	N/A	SEE NOTES 1 AND 7
36	SCREW FOR 335	16	REPLACE EXISTING HARDWARE	STAINLESS STEEL	TYPE 316	N/A	SEE NOTE 1
	BASE BOLT FOR 334	•	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A N/A	SEE NOTES 1, 3 AND
37 38	BASE BOLT FOR 334 BASE BOLT FOR 334	8 16	REPLACE EXISTING HARDWARE REPLACE EXISTING HARDWARE	STEEL	ASTM A 449 ASTM A 449	N/A N/A	SEE NOTES 1, 3 AND SEE NOTES 1, 3 AND
		2	REPLACE EXISTING HOUSING WITH SIMILAR	STR. STEEL	ASTM A 36	N/A	SEE DETAIL SHT. NO
۷٥٨				I OIN OIEEL			
40A 40B	C.W. CRANK SHAFT BEARING - HOUSING C.W. CRANK SHAFT BEARING - BUSHING	2	REPLACE EXISTING BUSHING WITH SIMILAR	CAST BRONZE	ASTM B 22 C91100	N/A	SEE DETAIL SHT.

DRAWN BY: <u>JAG/MS</u>	DATE:	8/8/2016
CHECKED BY: <u>GAF/RH</u>	DATE:	8/8/2016
DESIGN ENGINEER OF RECORD: <u>JAG/MS</u>	DATE:	8/8/2016

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	QNTY.	SIZE	TORQUE	DRIVING HALF			DRIVEN HALF				
MARK			RATING		NOMINAL	KEY R = R		RIGID KEY		NOMINAL	MANUFACTURER
			IN-KIPS		BORE, IN.	IN. x IN.	x IN. F = FLEX		IN. x IN. BORE, IN.		
C14	2	1040G81	270.9	RIGID GEAR	4	1 x 1	R	R	1 x 1	4	FALK CORPORATION



CENTER WEDGE MACHINERY REHABILITATION NOTES:

1. EXISTING PIECE(S) SHALL BE REMOVED AND REPLACED IN-KIND. THE IN-KIND REPLACEMENT PIECE(S) SHALL BE DETAILED USING DIMENSIONAL INFORMATION SHOWN ON THE ORIGINAL SHOP DRAWINGS AND MATERIAL INFORMATION SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE DIMENSIONAL INFORMATION BY MEASURING EXISTING PIECE(S) PRIOR TO SUBMITTING SHOP DRAWINGS.

2. UNLESS NOTED OTHERWISE, ALL IN-KIND REPLACEMENT PIECES, REHABILITATED PIECES AND NEW PIECES SHALL BE PROVIDED WITH NEW SHIMS. SHIMS SHALL PROVIDE FOR PROPER ALIGNMENT OF MATING PIECES.

3. UNLESS NOTED OTHERWISE, ALL IN-KIND REPLACEMENT PIECES, REHABILITATED PIECES AND NEW PIECES SHALL BE PROVIDED WITH NEW HARDWARE. HARDWARE SHALL PROVIDE FOR PROPER MOUNTING.

4. HARDWARE FOR IN-KIND REPLACEMENT PIECES AND REHABILITATED PIECES SHALL COMPLEMENT THE REQUIREMENTS OF THE ORIGINAL SHOP DRAWINGS. HARDWARE FOR NEW PIECES SHALL BE PER THE GENERAL MACHINERY NOTES AND GENERAL BRIDGE MACHINERY SPECIFICATION.

5. REHABILITATION OF WORM GEAR REDUCER SHALL INCLUDE REMOVAL AND TRANSPORTATION TO A QUALIFIED MACHINE SHOP, DISASSEMBLY AND CLEANING OF ALL SURFACES FOR SHOP INSPECTION. WITH THE EXCEPTION OF HOUSINGS AND SEAL RINGS, ALL OTHER COMPONENTS MAKING UP THE WORM GEAR REDUCER SHALL BE REPLACED IN-KIND FOR A FULLY FUNCTIONAL UNIT.

6. REHABILITATION OF SEATS, WEDGES, PINS, GUIDES, CRANKS, LEVERS AND JACK SHAFTS SHALL INCLUDE CLEANING OF ALL SURFACES FOR INSPECTION, ADJUSTMENT FOR PROPER ALIGNMENT, PREPARATION OF EXPOSED SURFACES FOR PAINTING, PAINTING AND REASSEMBLY WITH MATING PIECES. WHEN APPLICABLE, THE CONTRACTOR SHALL COORDINATE MATING DIMENSIONS OF NEW (REPLACEMENT) PIECES WITH EXISTING (REHABILITATED) PIECES.

7. REHABILITATION OF JACK SHAFT BEARINGS SHALL INCLUDE REMOVAL AND TRANSPORTATION TO A QUALIFIED MACHINE SHOP, DISASSEMBLY AND CLEANING OF ALL SURFACES FOR SHOP INSPECTION, REPLACEMENT OF EXISTING BUSHINGS, PAINTING AND REASSEMBLY IN THE FIELD WITH NEW HARDWARE.

TABLE OF NEW CENTER WEDGE MACHINERY COUPLINGS

		PROJEC T BRIDGE	YRRE		936 CO 7	UNTY
Scott Key BFEC5720F8F 9/14/20	$\frac{14B0}{2} = 0.36065$		PARTMENT BLE OF CHINER ALLIG	RALEIGH	ISPORTAT ER WEE IPONE RIVER	DGE NTS
es you		NO. BY:	REVISI	IONS NO. BY:	DATE:	SHEET NO. M-18
DWGS	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	1		3		TOTAL SHEETS

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