		TABLE OF CENTERING DEVICE MACHINERY	COMPONENTS			
PIECE NAME	QNTY	. DESCRIPTION OF WORK	MATERIAL	DESIGNATION	SUPPLEMENTAL REQUIREMENT	REMARKS
446A COLLAR FOR 485A AND 486A	4	NEW SET SCREW SHAFT COLLAR FOR 2 1/2" DIAMETER, TYPE 303 STAINLESS STEEL	MCMASTER-CARR PAR	⊥ RT NO. 6462K47 (OR APPR		COMMERCIAL
447 LATCH POCKET	2	REHABILITATE EXISTING LATCH POCKET	N/A	N/A	N/A	SEE NOTE 5
448 LATCH BAR	2	REHABILITATE EXISTING LATCH BAR	N/A	N/A	N/A	SEE NOTE 5
449 LATCH ROLLER	2	REHABILITATE EXISTING ROLLER	N/A	N/A	N/A	SEE NOTE 5
450 PIN FOR 448 AND 449	2	REHABILITATE EXISTING PIN	N/A	N/A	N/A	SEE NOTE 5
451 COTTER PIN FOR 450	4	REPLACE EXISTING HARDWARE	STAINLESS STEEL	ASTM A 276, TYPE 316	N/A	SEE NOTE 1
453 LATCH STOP	2	REPLACE EXISTING LATCH STOP	STRUCTURAL STEEL	ASTM A 709 GR. 50	N/A	SEE NOTE 1
454 BOLT FOR 453	4	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND 4
455 LATCH PAWL BRACKET	2	REHABILITATE EXISTING LATCH PAWL BRACKET	N/A	N/A	N/A	SEE NOTE 5
456 BOLT FOR 455	6	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND 4
457 PIN FOR 455 AND 459	2	REHABILITATE EXISTING PIN	N/A	N/A	N/A	SEE NOTE 5
458 COTTER PIN FOR 457	4	REPLACE EXISTING HARDWARE	STAINLESS STEEL	ASTM A 276, TYPE 316	N/A	SEE NOTE 1
459 LATCH PAWL	2	REHABILITATE EXISTING LATCH PAWL	N/A	N/A	N/A	SEE NOTE 5
460 LATCH TRIP LEVER	2	REHABILITATE EXISTING LATCH TRIP LEVER	N/A	N/A	N/A	SEE NOTE 5
461 KEY FOR 460	2	REPLACE EXISTING KEYS	FORGED STEEL	ASTM A 668 CL. K	N/A	SEE NOTE 1
462 SET SCREW FOR 460	2	REPLACE EXISTING HARDWARE	STEEL	ASTM F 912	N/A	SEE NOTES 1, 3 AND 4
463 LATCH COUNTERWEIGHT BAR	4	REHABILITATE EXISTING LATCH COUNTERWEIGHT BAR	N/A	N/A	N/A	SEE NOTE 5
464 PIN FOR 463 AND 472	2	REHABILITATE EXISTING PIN	N/A	N/A	N/A	SEE NOTE 5
465 COTTER PIN FOR 464	4	REPLACE EXISTING HARDWARE	STAINLESS STEEL	ASTM A 276, TYPE 316	N/A	SEE NOTE 1
466 SPACER FOR 464	2	REPLACE EXISTING SPACERS	STEEL	ASTM A 53	N/A	SEE NOTE 1
467 STUD FOR 463	2	REPLACE EXISTING HARDWARE	STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND 4
468 NUT FOR 467	8	REPLACE EXISTING HARDWARE	STEEL	ASTM A 563	N/A	SEE NOTES 1, 3 AND 4
470 COUNTERWEIGHT HUB	4	REHABILITATE EXISTING COUNTERWEIGHT HUB	N/A	N/A	N/A	SEE NOTE 5
471 BOLT FOR 470	8		STEEL	ASTM A 449	N/A	SEE NOTES 1, 3 AND 4
472 LATCH COUNTERWEIGHT LINK	4	REHABILITATE EXISTING LATCH COUNTERWEIGHT LINK	N/A	N/A	N/A	SEE NOTE 5
473 LATCH COUNTERWEIGHT	2	REHABILITATE EXISTING LATCH COUNTERWEIGHT	N/A	N/A	N/A	SEE NOTE 5
474 SET SCREW FOR 473	2	REPLACE EXISTING HARDWARE	STEEL	ASTM F 912	N/A	SEE NOTES 1, 3 AND 4
476 LATCH LEVER	2	REHABILITATE EXISTING LEVER	N/A	N/A	N/A	
477 KEY FOR 476	2	REPLACE EXISTING KEYS	FORGED STEEL	ASTM A 668 CL. K	N/A	SEE NOTE 1
478 SET SCREW FOR 476	2	REPLACE EXISTING HARDWARE	STEEL	ASTM F 912	N/A	SEE NOTES 1, 3 AND 4
482 PIN FOR 476, 479 AND 519	4	REHABILITATE EXISTING PIN			N/A	SEE NOTE 5
483 COTTER PIN FOR 482	8	REPLACE EXISTING HARDWARE	STAINLESS STEEL	ASTM A 276, TYPE 316	N/A	SEE NOTE 1
485A LATCH SHAFT	1	REPLACE EXISTING SHAFT	FORGED STEEL	ASTM A 434 CL. BC	N/A	SEE DETAIL SHT. NO. M-21
486A LATCH SHAFT	1	REPLACE EXISTING SHAFT	FORGED STEEL	ASTM A 434 CL. BC	N/A	SEE DETAIL SHT. NO. M-21
510A LATCH SHAFT BEARING - HOUSING	6	REPLACE EXISTING HOUSING WITH SIMILAR	STR. STEEL	ASTM A 36	N/A	SEE DETAIL SHT. NO. M-21
510B LATCH SHAFT BEARING - BUSHING	6	REPLACE EXISTING BUSHING WITH SIMILAR	CAST BRONZE	ASTM B 22 C91100	N/A	SEE DETAIL SHT. NO. M-21
514 LATCH ROD	2	REPLACE EXISTING LATCH ROD	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
515 LATCH ROD	2	REPLACE EXISTING LATCH ROD	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
516 SLEEVE NUT FOR 514 AND 515	2	REPLACE EXISTING HARDWARE	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
517 NUT FOR 514	6	REPLACE EXISTING HARDWARE	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
518 NUT FOR 515	2	REPLACE EXISTING HARDWARE	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1
519 CLEVIS FOR 514 AND 515		REPLACE EXISTING CLEVIS	FORGED STEEL	ASTM A 668 CL. G	N/A	SEE NOTE 1

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DESIGN ENGINEER OF RECORD: <u>JAG/MS</u>	DATE:	8/8/2016

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CENTERING DEVICE 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 LATCH COMPONENTS, INCLUDING POCKETS, BARS, ROLLERS, PINS, ETC., 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.

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