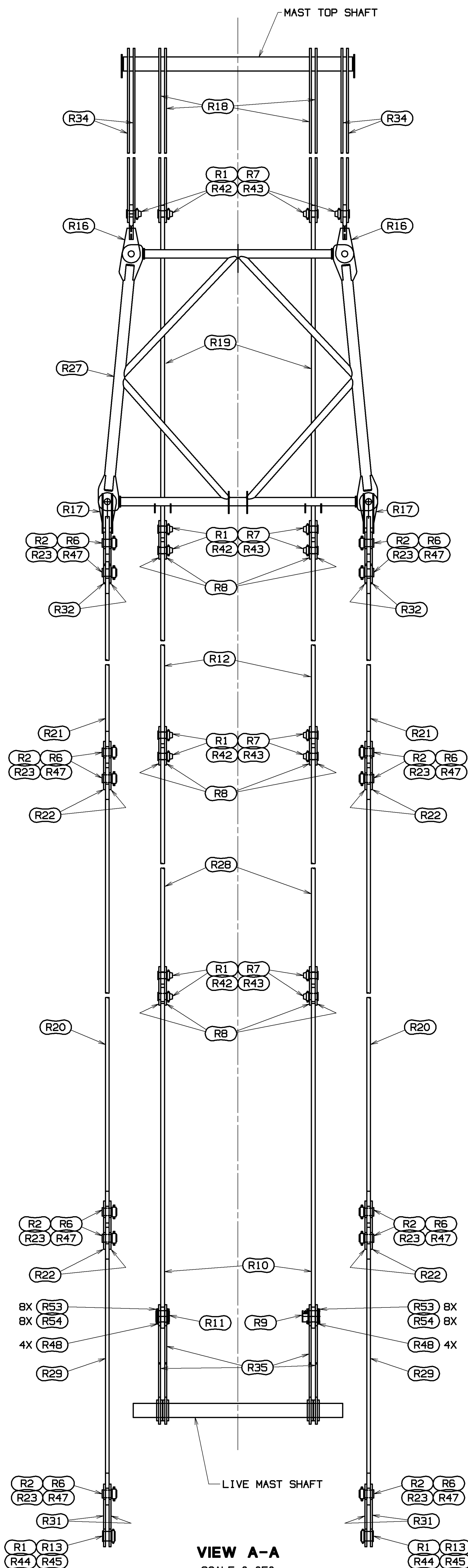
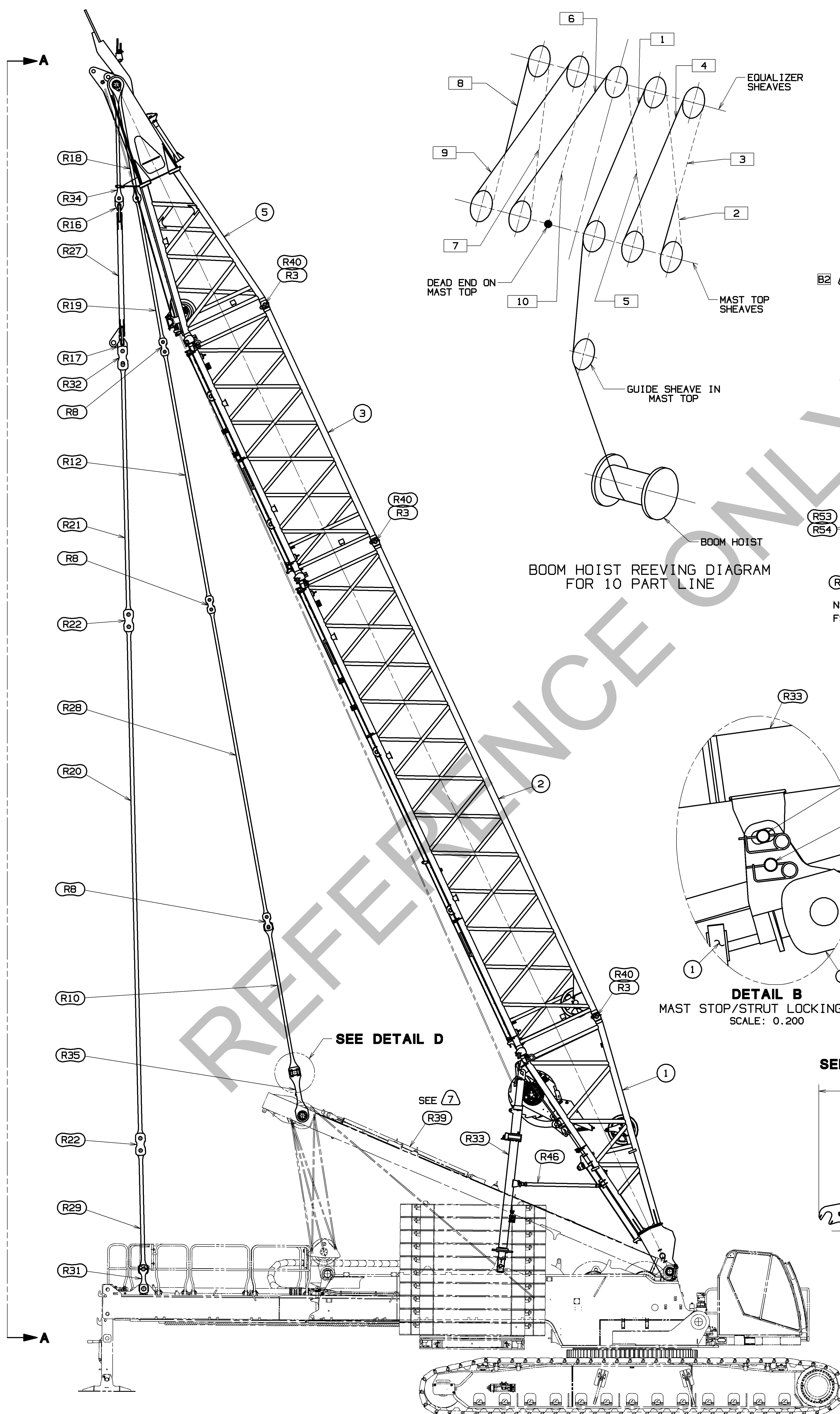




VIEW A-A
SCALE 0.050



DEAD END ON
MAST TOP

GUIDE SHEAVE IN
MAST TOP

BOOM HOIST
REEVING DIAGRAM
FOR 10 PART LINE

SEE DETAIL D

SEE 7

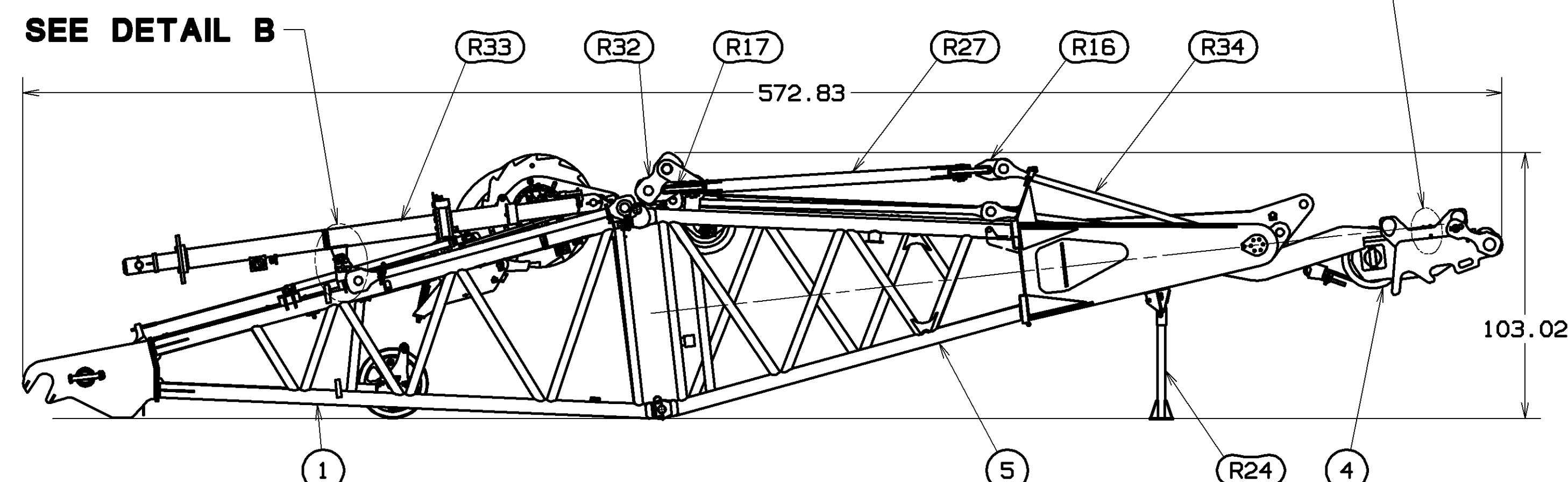
DETAIL B
MAST STOP/STRUT LOCKING PIN
SCALE: 0.200

DETAIL D
SCALE: 0.125

DETAIL C
EQUALIZER RETAINING PIN
SCALE: 0.350

SEE DETAIL B

SEE DETAIL C



MAST TRANSPORTATION PACKAGE
TOTAL SHIPPING WEIGHT: 36,170 LBS (16,407 KGS)

MAST BUTT (ITEM 1):	15,050 LBS (6,825 KGS)
MAST TOP (ITEM 5):	13,650 LBS (6,190 KGS)
EQUALIZER (ITEM 4):	3,050 LBS (1,383 KGS)
DRUM 5 ROPE:	4,430 LBS (2,009 KGS)

- 1 BUTT 6M I.D. TAG #84041202
- 2 INSERT 12M I.D. TAG #84035934 OR 84035575
- 3 INSERT 6M I.D. TAG #81026068
- 4 TOP 6M I.D. TAG #81032857
- 5 FOR ASSEMBLY AND RIGGING PURPOSE ONLY. STOW IN PARTS BOX 81028769 AS SELF RIGGING KIT 81038439.
- 6 FOR ASSEMBLY AND RIGGING PURPOSE ONLY. STOWS IN PARTS BOX 81028769 AS OPTION B.

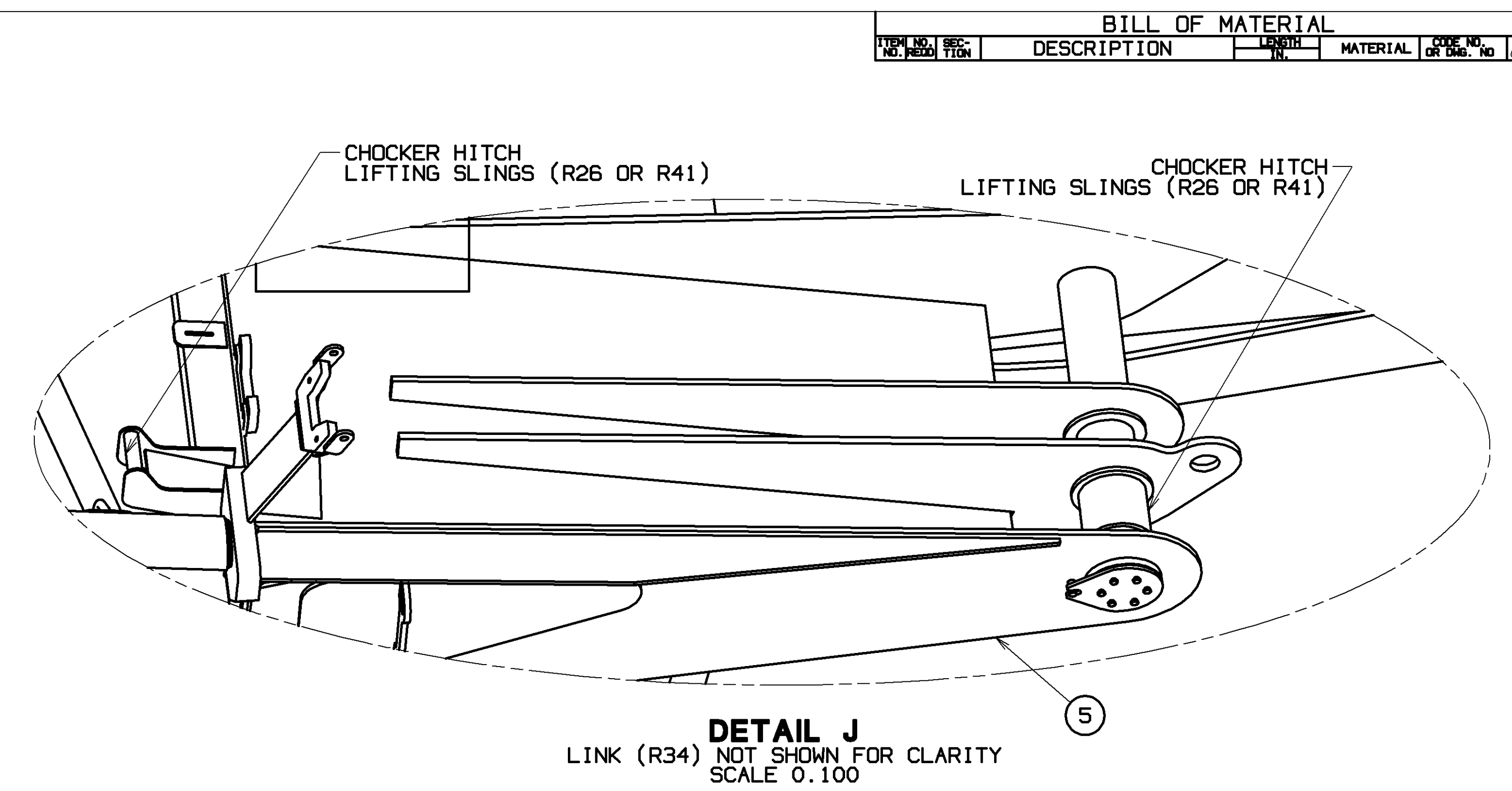
MAST HANDLING CAPACITIES	SERIAL NUMBERS
9340-A	604716-605836, 605953 & 606114
9340-B	605952, 606648 AND GREATER

- B2 8 LIFTING POINTS AND ATTACHMENT COMPONENTS ON 12M INSERT 81027803 (3.0M WIDE) OR 84048000 (3.5M WIDE) VARY PER WITH OR WITHOUT DRUM 6 OR BACKSTAYS. SEE PARTIAL BOOM LIFT TABLE AND DETAIL VIEWS ON RIGGING DRAWING REFERENCED ON CAPACITY CHART.

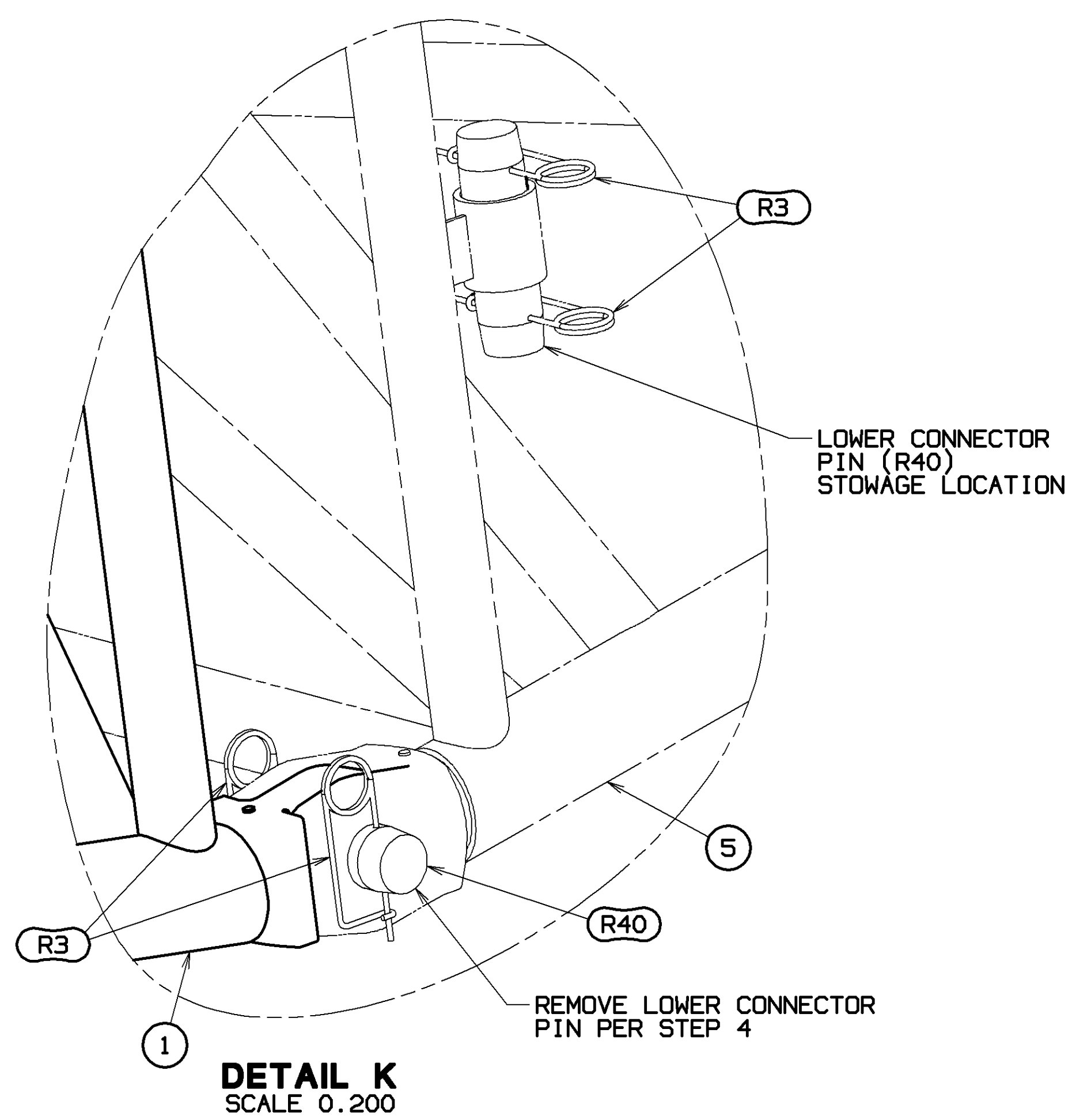
BILL OF MATERIAL				ASSEMBLIES USED IN
ITEM NO.	DESCRIPTION	QTY	MATERIAL	REV. NO.
MAST RIGGING M11:503				
1	BUTT ASSY #503 MAST	1	84041201	1
2	INSERT ASSY 12M #503	2	81026064	2
3	INSERT ASSY 6M #503	3	81026067	3
4	EQUALIZER ASSY	1	81029025	4
5	TOP ASSY #503 MAST 6.0 M	1	81032859	4
6				
BASIC REFERENCE ITEMS				
R1	36 PIN COTTER 3/16 DIA X 1.50 LG	562085		
R2	28 PIN COTTER 1/4 DIA X 1.50 LG	562105		
R3	12 PIN SAFETY .243 OD X 5.00	563640		
R4	4 SHACKLE 25MTON	624759	5	
R5	2 PIN SAFETY 0.25 DIA X 2.50 LG	81028427		
R6	14 COLLAR 80.2MM I.D.	81020478		
R7	16 PIN 1 HOLE W/HD 65.0 DIA X 94.3 LG	81024951		
R8	12 LINK #500 BOOM	81024955		
R9	1 LOAD PIN 120MM D X 145.150KG	84038494		
R10	2 STRAP 3.400M LG, 40MM THK	81028829		
R11	1 PIN 120.0 DIA X 86.2 LG	81029568		
R12	2 STRAP 5.78M #500	81029621		
R13	2 PIN 1 HOLE W/HD 100.0 DIA X 94.3 LG	81029670		
R14	2 PENDANT	81029858		
R15	1 LINK SELF ERECT	84041812	7	
R16	2 LINK WELD AND MACHINING	81039624		
R17	2 LINK WELD AND MACHINING	81039645		
R18	4 LINK TOP #503 MAST	81036111		
R19	2 STRAP 3.35M #503	81036794		
R20	2 STRAP #503 BOOM 38.1X80.0	81036897		
R21	2 STRAP #503 BOOM 38.1X80.0	81036899		
R22	8 LINK #503 MAST CTWT STRAP	81036914		
R23	14 PIN 1 HOLE 79.3 DIA X 100.1 LG	81037284		
R24	2 BRACE MAST TOP SUPPORT	81038014		
R25	2 SLING 50000 LBS 6.15 FT	84018961	6	
R26	4 SLING LIFTING 1 LEG X 4000(LBS) X9.0(FT)	81038423	5	
R27	1 SPREADER MACHINING MAST CTWT STRAPS	81039468		
R28	2 STRAP 7.16M #503	81039842		
R29	2 STRAP #503 BOOM 38.1X80.44	81039878		
R30				
R31	4 LINK #503 MAST	81041215		
R32	4 LINK #503 MAST CTWT STRAP	81041794		
R33	2 CYL HYD MAST STOP ASSY	84036678		
R34	4 LINK ASSY #503 MAST TOP	81042532		
R35	4 STRAP ASSY LIVE MAST 1.0M	81042537		
R36	2 PIN WITH HEAD 44.5 OD X 314.0 LG	84019793		
R37	2 COLLAR 45.51DX57.20DX25.0	84019794		
R38	2 BUSHING SLEEVE ASSY	84020126		
R39	1 CYL HYD 139.7 BORE 44.45 ROD	84041811	7	
R40	6 PIN 2 HOLE 75.80 X 171.9 LG	84026091		
R41	4 SLING 13.0 (FT) 40000 (LB)	84026655	5	
R42	16 PIN 2 HOLES 12.7 DIA X 93.0 LG	A11799		
R43	16 COLLAR 66MM I.D.	A11800		
R44	2 COLLAR 101MM I.D.	A12945		
R45	2 PIN 2 HOLE 12.7 DIA X 128.0 LG	A12946		
R46	2 STRUT ASSY	A13864		
R47	14 PIN 2 HOLE 19.05 DIA X 117.0 LG	A16804		
R48	8 PLATE KEEPER 12 MM	A19734		
R49				
R50				
R51				
R52				
R53	18 HHCS 16 X 30 10.9, FULL THREAD	7127241353		
R54	16 L WASHER 16 ST DIN 127B	7951240220		

84045340
SHT 1 OF 6

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	DECIMAL PLACES	FABRICATION	MACHINING	0.025			
	± 10 FEET	± 10 FEET	± 10 FEET	DR. RHM			
	(1) PLACE 0.0	± 12	± 10	CR. IMM			
	(2) PLACE 0.00	± 08	± 12	MODEL MLC300			
	(3) PLACE 0.000	± 06	± 10	APP DLG			
	ANGLES	± 30	± 30				



DETAIL J
LINK (R34) NOT SHOWN FOR CLARITY
SCALE 0.100



HOOKED CONNECTOR ON FIXED MAST BUTT (ITEM 1)

FIXED HORIZONTAL PIN ON FIXED MAST TOP (ITEM 5) (REF A16S34)

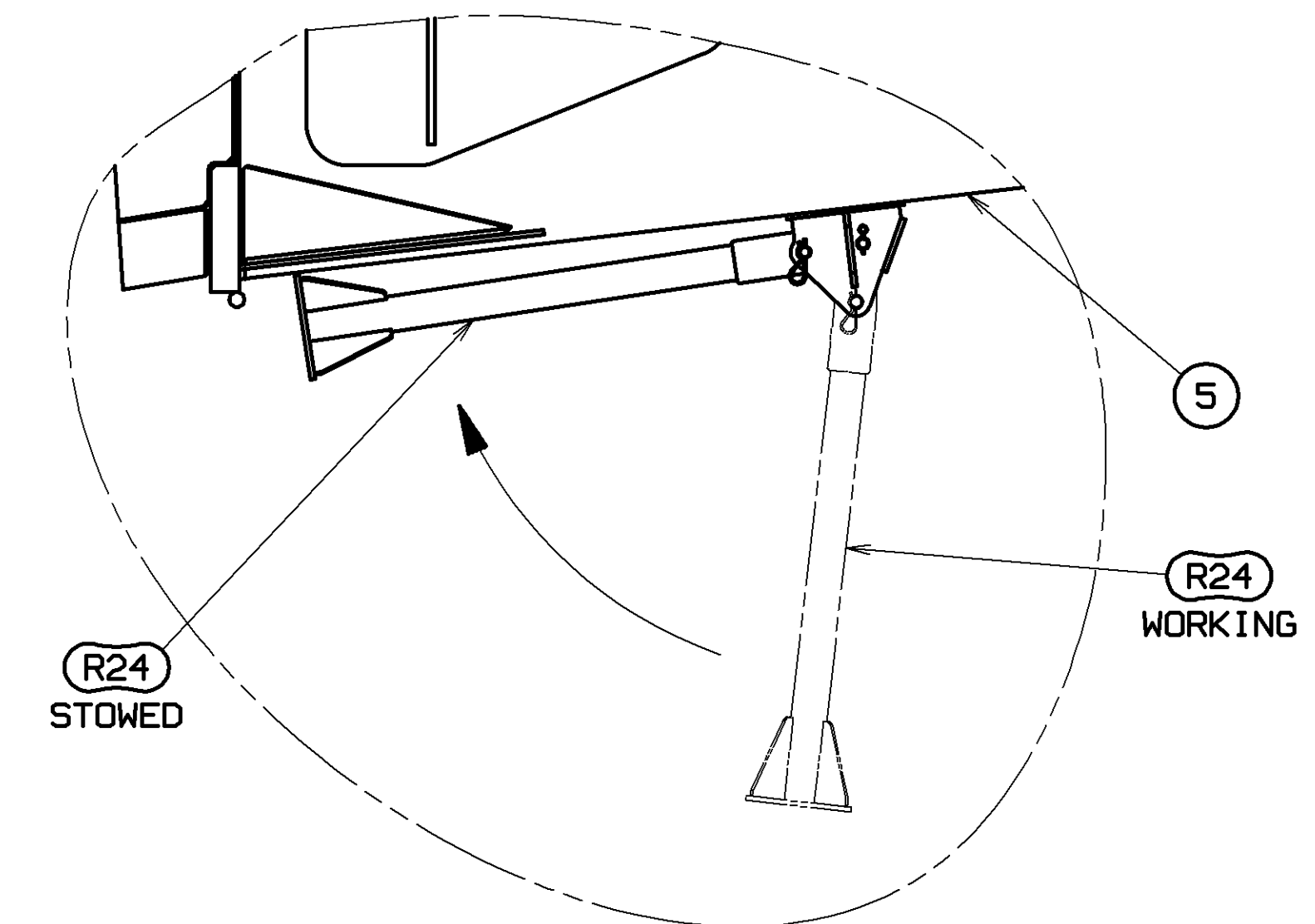
1

5

DETAIL L

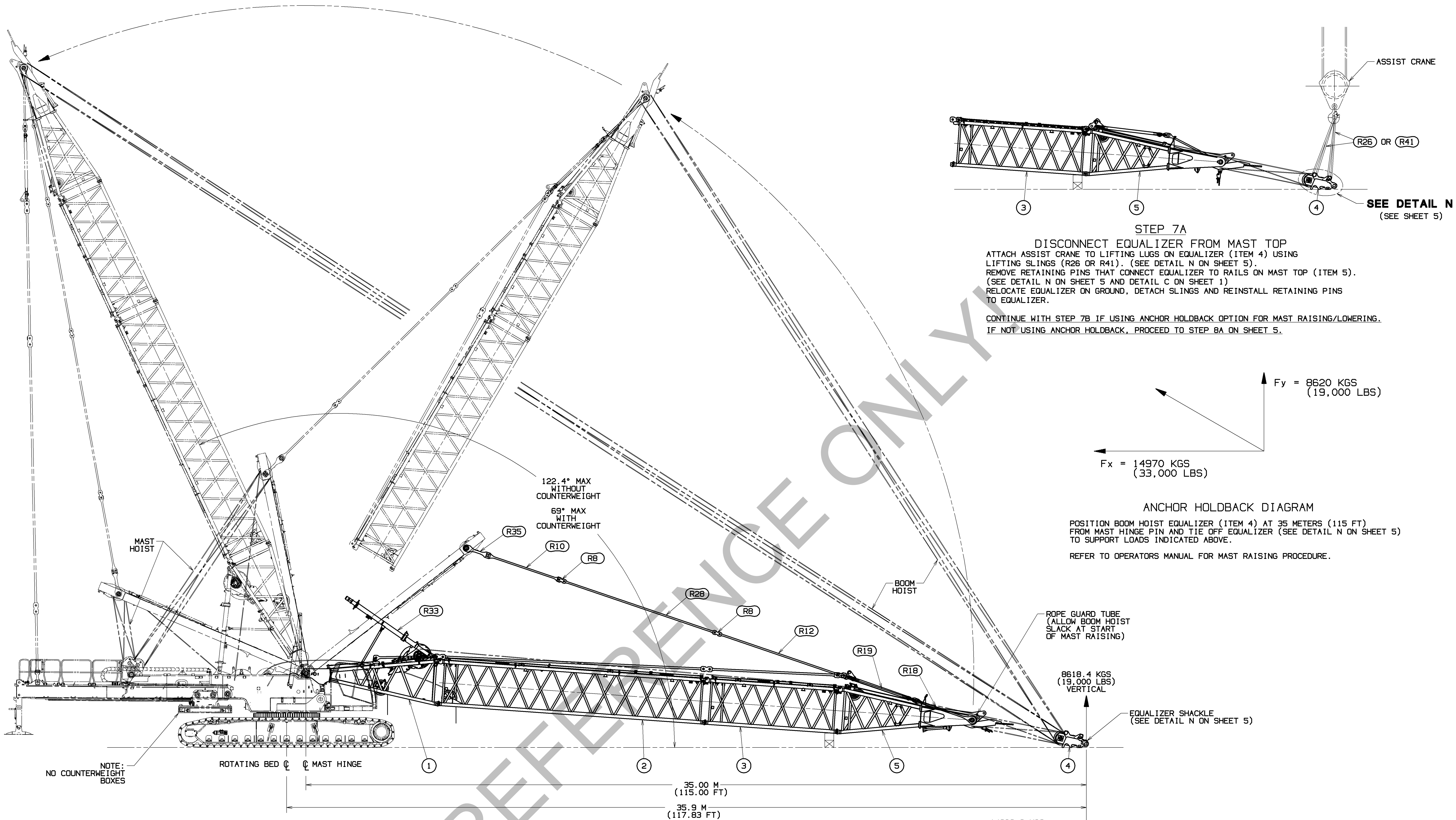
LINK (R34) NOT SHOWN FOR CLARITY

SCALE 0.250



DETAIL M
MAST TOP SUPPORT BRACKET (R24)
SCALE 0.075

THIS PRINT BEHIND THE PROPERTY OF MANITOWOC CRANES, INC.		TOLERANCE UNLESS OTHERWISE SPECIFIED			SIZE #012	Manitowoc Cranes, Inc. Manitowoc, Wisconsin	REV. LTR. B
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		≤ 10 FEET	≤ 10 FEET	≤ 10 FEET			
		(1) PLACE 0.0	.12	.10	.03		
		(2) PLACE 0.00	.06	.12	.015		
		(3) PLACE 0.000			.008		
		NOTE: DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED. DIMENSIONS TO CENTERLINE UNLESS OTHERWISE SPECIFIED.			DR. RHV CR. IMM MODEL MLC300 APP DLG	MAST RIGGING M11:503 APP DLG	Dwg. No. 84045340



STEP 7B

OPTIONAL MAST RAISING/LOWERING WITH ANCHOR HOLDBACK

MAST RAISING PROCEDURE
SUPPORT BOOM HOIST EQUALIZER (ITEM 4) WITH A SUITABLE MEANS TO PREVENT EQUALIZER FROM SKIDDING DURING MAST RAISING. SEE ANCHOR HOLDBACK DIAGRAM.

RAISE MAST WITH MAST HOIST WHILE PAYING OUT BOOM HOIST LINE. (DO NOT ALLOW BOOM HOIST TO GO INTO TENSION AT THIS TIME) ADEQUATE SLACK MUST BE MAINTAINED TO PREVENT BOOM HOIST ROPE FROM BEARING UP AGAINST ROPE GUARD TUBE IN MAST POINT.

WARNING: DO NOT RAISE THE MAST BEYOND 69° IF COUNTERWEIGHT IS INSTALLED WITHOUT ATTACHING BOOM TO MACHINE AND CONNECTING EQUALIZER (ITEM 4) TO BOOM STRAPS. CRANE COULD TIP.

AS MAST APPROACHES VERTICAL, TAKE UP EXCESS SLACK IN BOOM HOIST AND EASE MAST OVER CENTER.

LOWER MAST TO ENGAGE MAST STOPS (R33).

MOVE THE BOOM HOIST EQUALIZER (ITEM 4) TO ONE SIDE OF THE CRANE. USING ASSIST CRANE ASSEMBLE BOOM BUTT, 12M INSERT (81027803 OR 84048000) AND 12M EQUALIZER INSERT (81027811 OR 84048756) TO MACHINE. (REFER TO DELTA NOTE 8 ON SHEET 1 FOR PROPER LIFTING POINTS AND ATTACHMENT COMPONENTS). RELOCATE MAST EQUALIZER (ITEM 4) ONTO 12M EQUALIZER INSERT (81027811 OR 84048756). (SEE STEP 7C).

COUNTERWEIGHT MAY NOW BE ADDED.
CONTINUE WITH BOOM CLOSING WITH OUTSIDE ASSIST PER STEP 10 ON SHEET 6.

MAST LOWERING PROCEDURE
BOOM DOWN AND SUPPORT BOOM ON BLOCKING. REMOVE ALL COUNTERWEIGHT.

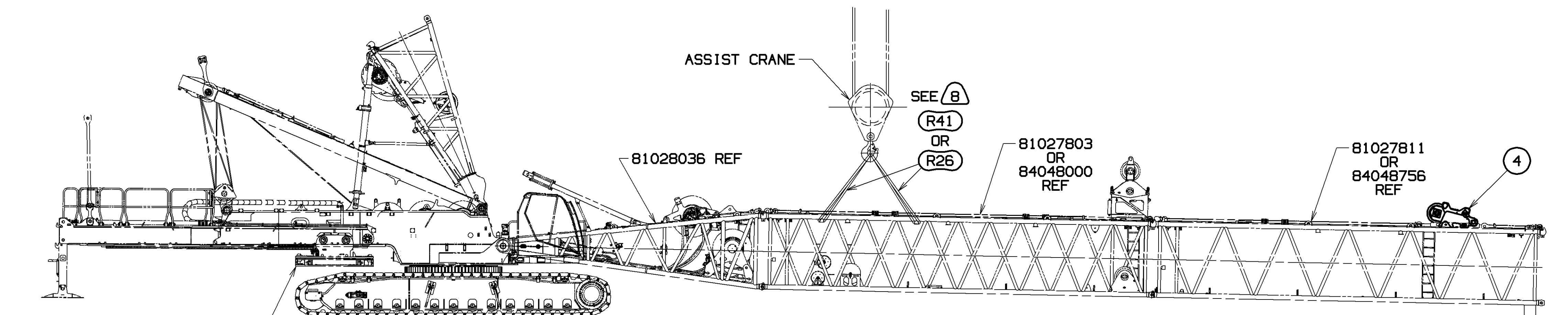
WARNING: DO NOT REMOVE BOOM FROM CRANE WITH COUNTERWEIGHT STILL INSTALLED. CRANE COULD TIP.

RELOCATE BOOM HOIST EQUALIZER (ITEM 4) TO ONE SIDE OF THE BOOM AND REMOVE BOOM WITH ASSIST CRANE.

SUPPORT BOOM HOIST EQUALIZER WITH A SUITABLE MEANS TO PREVENT EQUALIZER FROM SKIDDING DURING MAST LOWERING. SEE ANCHOR HOLDBACK DIAGRAM.

MOVE MAST FORWARD WITH BOOM HOIST WHILE PAYING OUT MAST HOIST ROPE AND EASE MAST OVER CENTER.

LOWER MAST TO BLOCKING WITH MAST HOIST WHILE TAKING UP BOOM HOIST ROPE.



STEP 7C

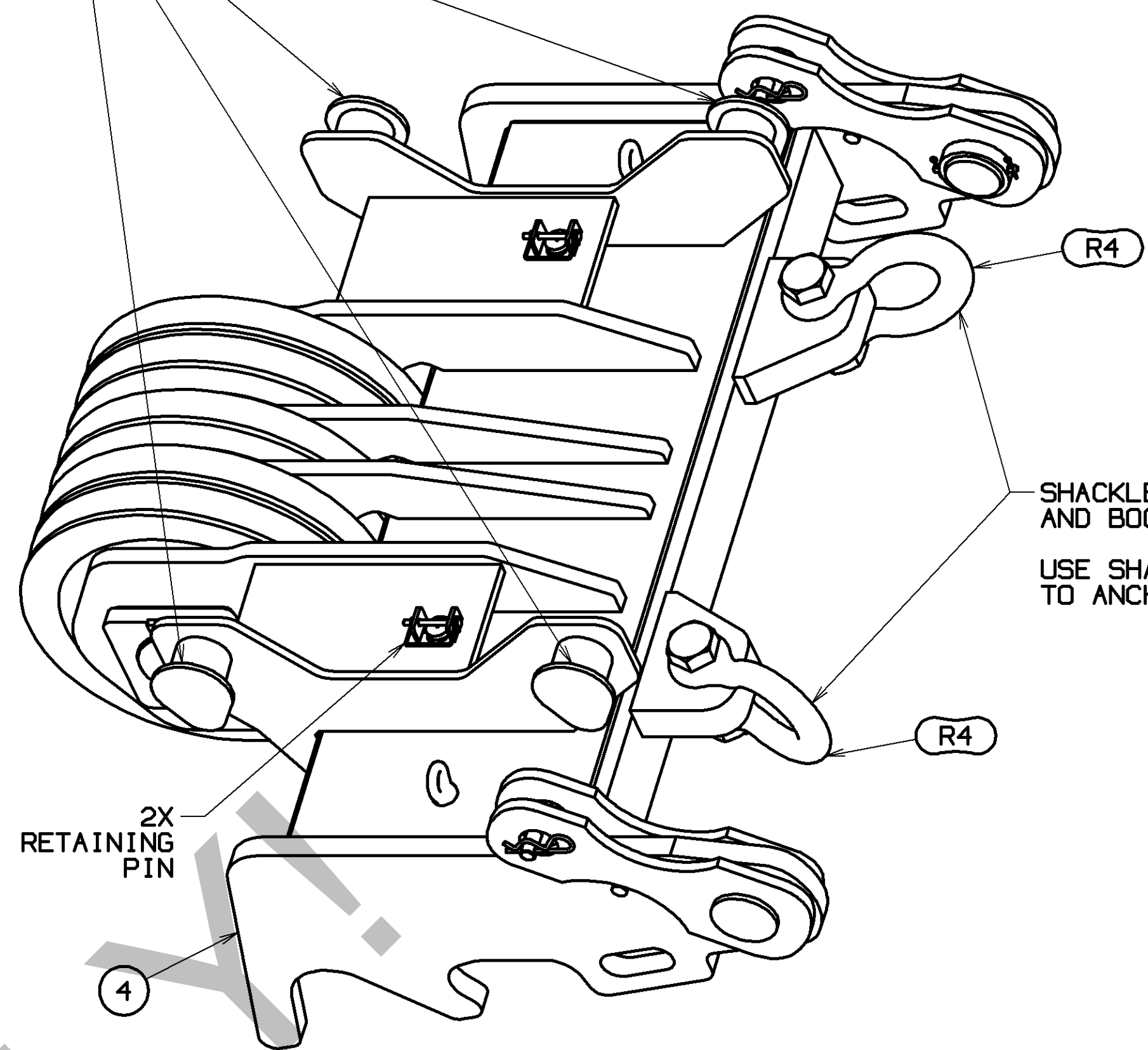
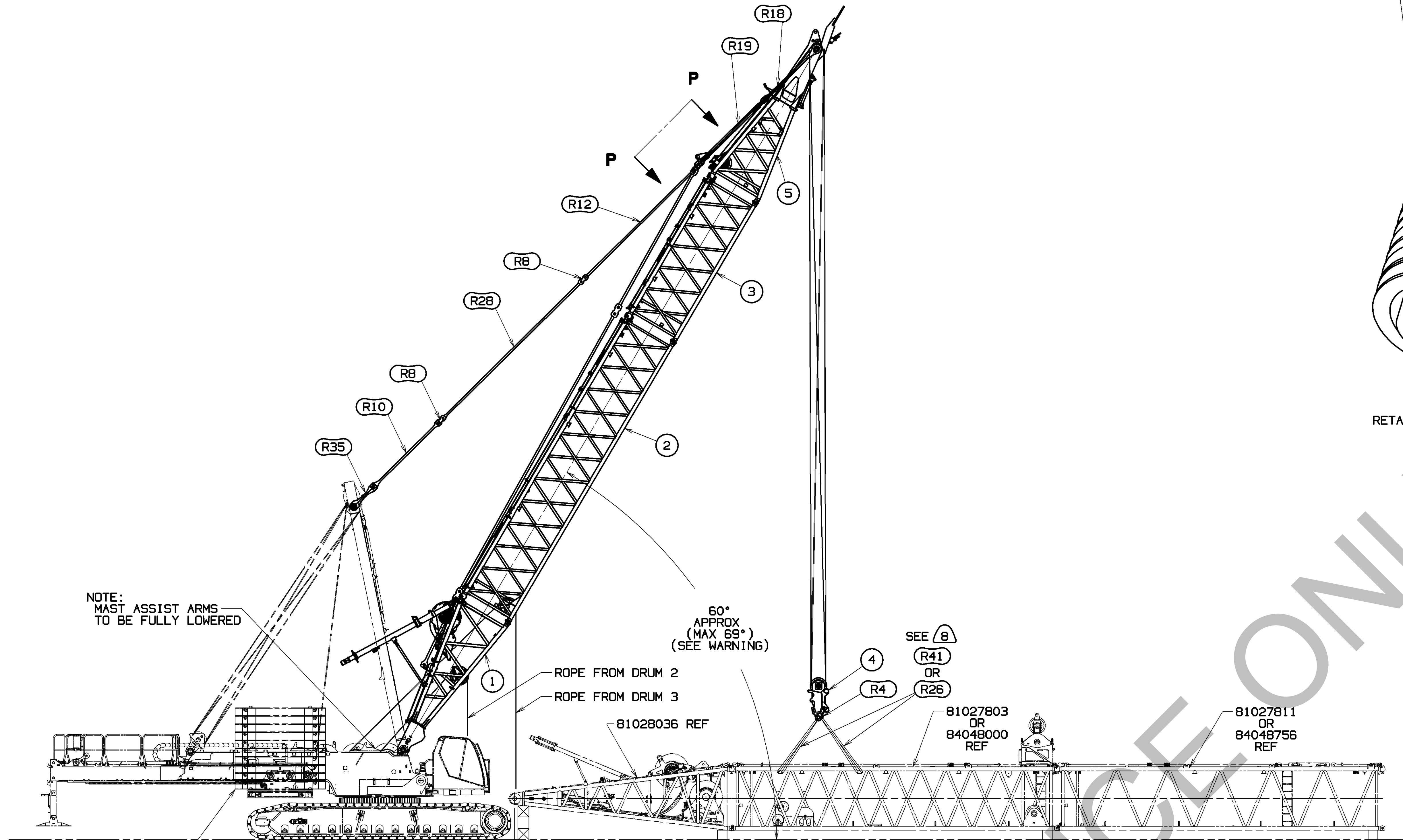
SCALE 0.012

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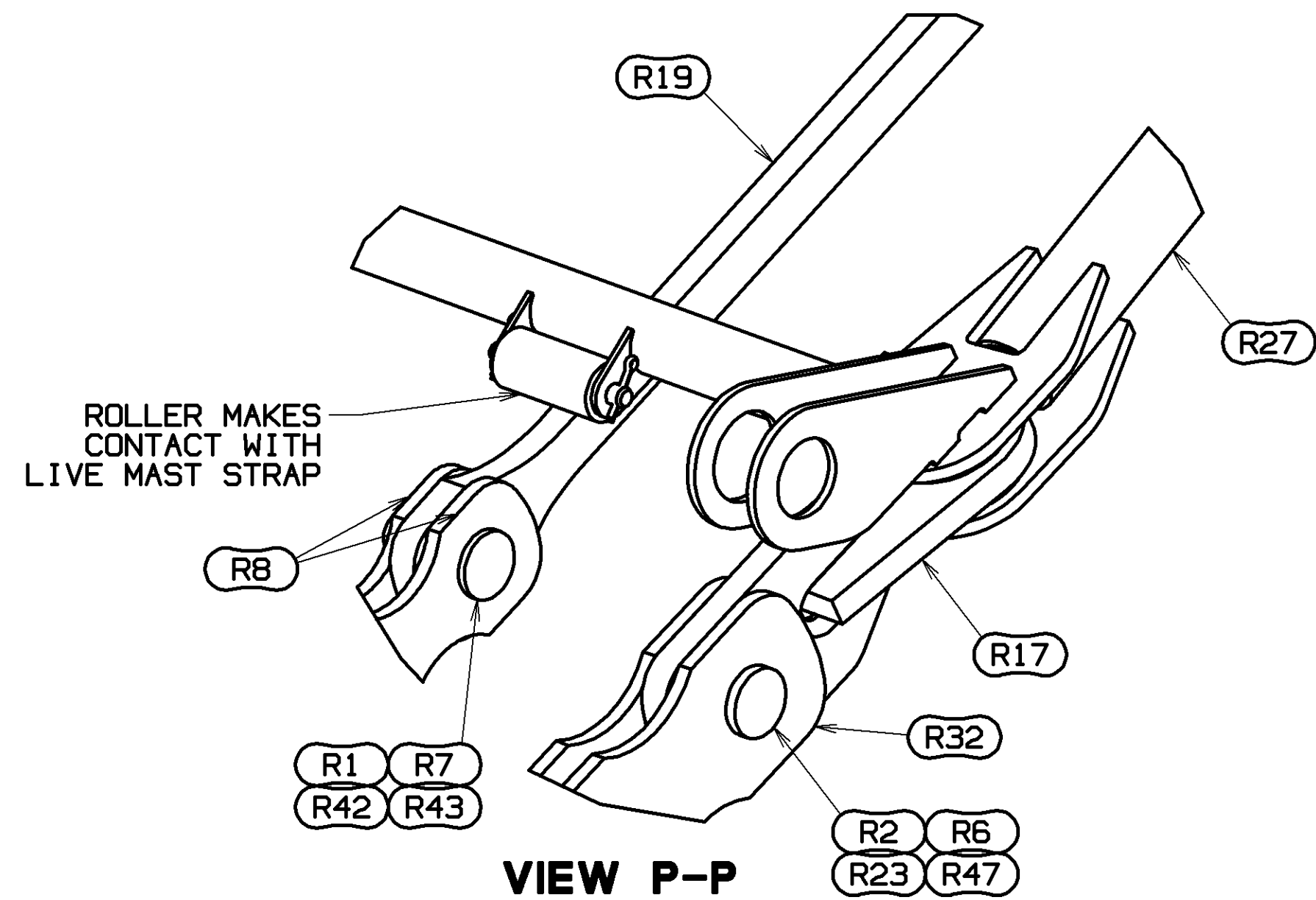
PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
8829103794 FOR
COMPONENTS LISTED
IN 88290-06-006

84045340
SHT 4 OF 6

SLING POSTS FOR LIFTING SLINGS (R26 OR R41)
(SEE STEP 7A)



DETAIL N
(FROM SHEET 4)
SCALE 0.125



VIEW P-P
SCALE 0.150

STEP 8A

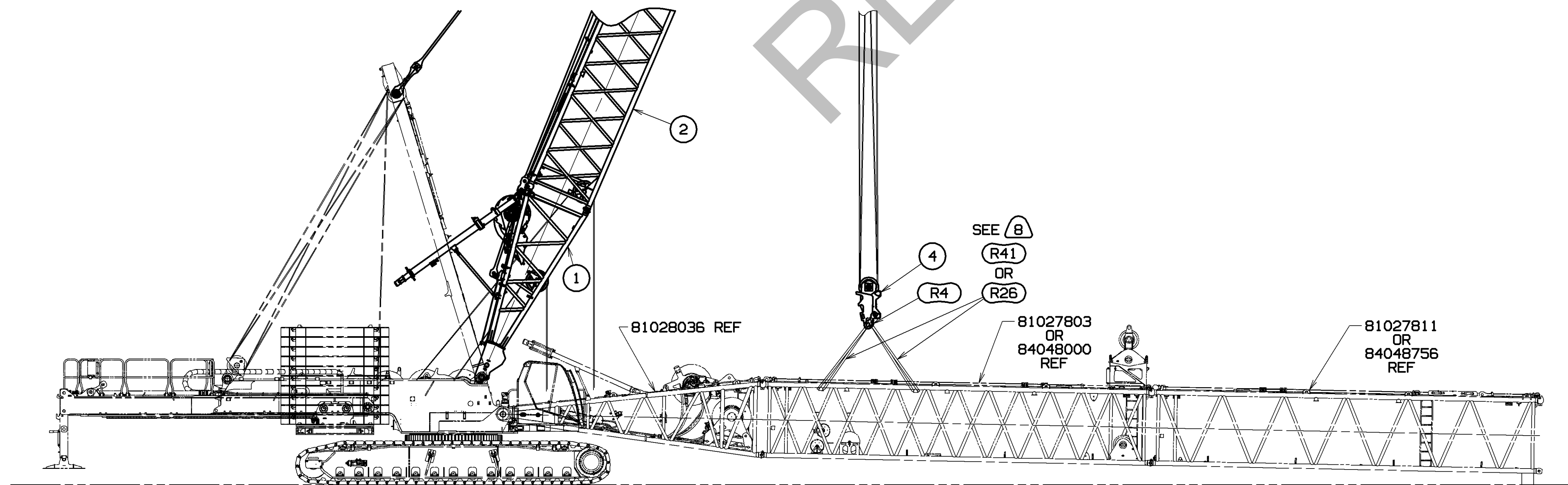
BOOM HANDLING WITH FIXED MAST

(FOR ADDITIONAL BOOM ASSEMBLY INFORMATION REFER TO BOOM RIGGING DRAWING PER CAPACITY CHART)
VERIFY THAT THE MAST ASSIST ARMS ARE FULLY LOWERED.
ASSEMBLE PORTION OF BOOM UP TO EQUALIZER INSERT 81027811 OR 84048756.
POSITION FIXED MAST AT APPROXIMATELY 60° FROM HORIZONTAL.

THE COUNTERWEIGHT BOXES ARE TO BE INSTALLED NOW.
NOTE: THE COUNTERWEIGHT TRAY IS TO BE AT THE MINIMUM POSITION.

WARNING: DO NOT RAISE THE MAST BEYOND 69° IF COUNTERWEIGHT IS INSTALLED WITHOUT ATTACHING BOOM TO MACHINE AND CONNECTING EQUALIZER (ITEM 4) TO BOOM STRAPS. CRANE COULD TIP.

USE (4) SLINGS (R26 OR R41) TO HANDLE THE BOOM WITH THE FIXED MAST.
ATTACH SLINGS WITH SHACKLES (R4) TO EQUALIZER (ITEM 4) (SEE DETAIL N) AND SLING POSTS ON INSERT 81027803 OR 84048000.
(REFER TO DELTA NOTE 8 ON SHEET 1 FOR PROPER LIFTING POINTS AND ATTACHMENT COMPONENTS).



STEP 8B

INSTALL PARTIAL BOOM

BOOM UP AND RAISE/LOWER EQUALIZER (ITEM 4) AS NEEDED TO ASSEMBLE BOOM BUTT TO ROTATING BED.
(SEE VIEW P-P FROM STEP 8A FOR LIVE MAST STRAP AND CTWT STRAP CONTACT).
LOWER PARTIAL BOOM ONTO BLOCKING.
DETACH LIFTING SLINGS (R26 OR R41) FROM INSERT 81027803 OR 84048000.

