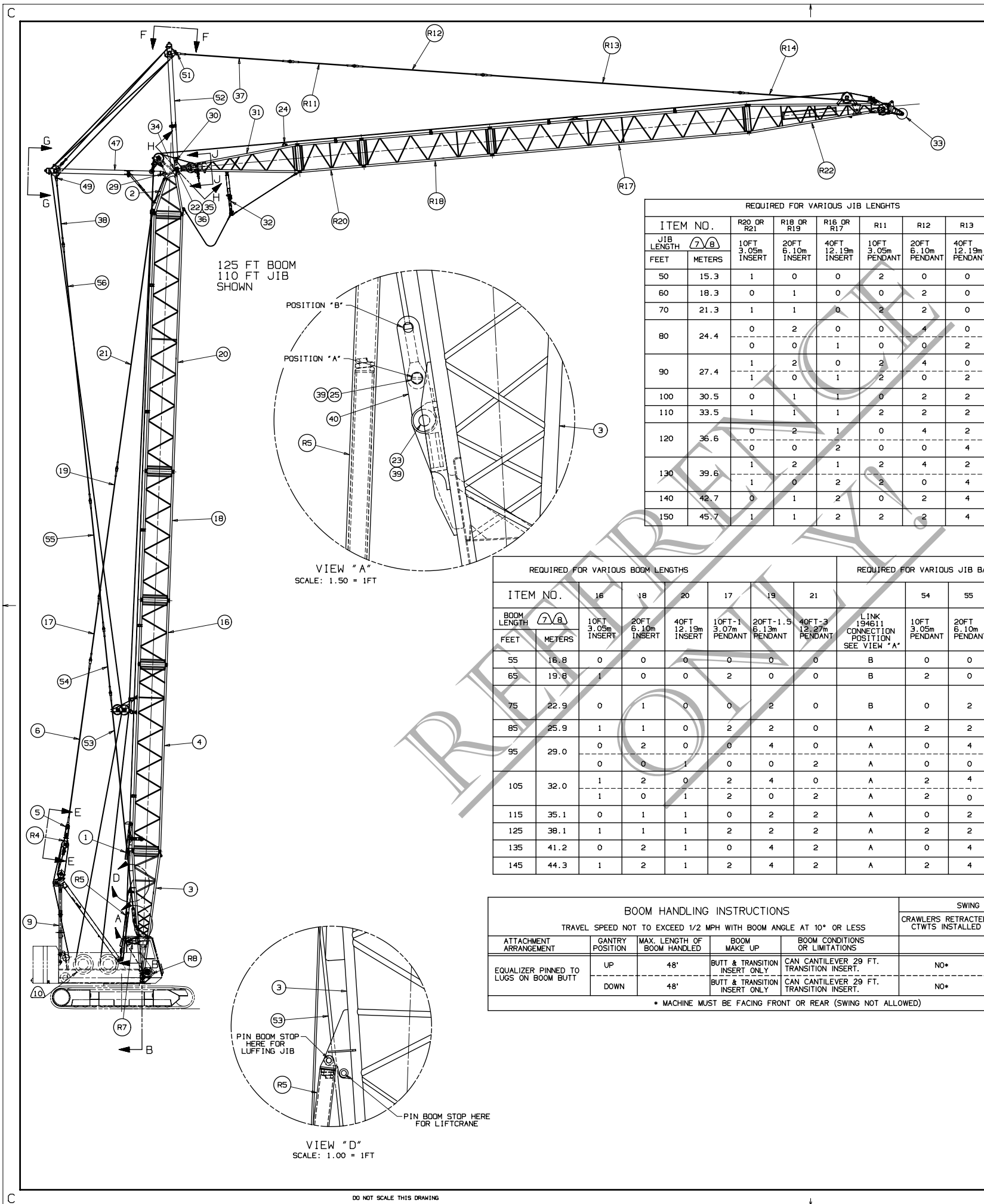
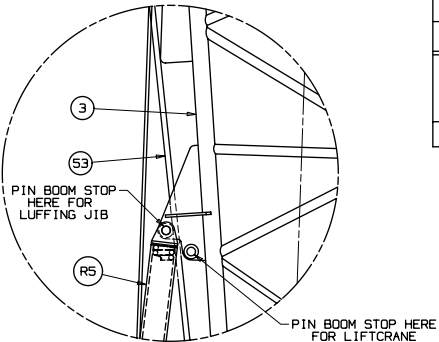




REQUIRED FOR VARIOUS JIB LENGTHS						
ITEM NO.	R20 OR R21	R18 OR R19	R16 OR R17	R11	R12	R13
JIB LENGTH FEET METERS	10FT 3.05m INSERT	20FT 6.10m INSERT	40FT 12.19m INSERT	10FT 3.05m PENDANT	20FT 6.10m PENDANT	40FT 12.19m PENDANT
50	15.3	1	0	0	2	0
60	18.3	0	1	0	0	2
70	21.3	1	1	0	2	0
80	24.4	0	2	0	0	4
		0	0	1	0	2
90	27.4	1	2	0	2	4
		1	0	1	2	0
100	30.5	0	1	1	0	2
110	33.5	1	1	1	2	2
		0	2	1	0	4
120	36.6	0	0	2	0	4
		0	0	2	0	4
130	39.6	1	2	1	2	4
		1	0	2	2	0
140	42.7	0	1	2	0	2
150	45.7	1	1	2	2	4

REQUIRED FOR VARIOUS BOOM LENGTHS							REQUIRED FOR VARIOUS JIB BACKSTAYS			
ITEM NO.	16	18	20	17	19	21		54	55	56
BOOM LENGTH FEET METERS	10FT 3.05m INSERT	20FT 6.10m INSERT	40FT 12.19m INSERT	10FT-1 3.07m PENDANT	20FT-1.5 6.13m PENDANT	40FT-3 12.27m PENDANT	LINK 194611 CONNECTION POSITION SEE VIEW "A"	10FT 3.05m PENDANT	20FT 6.10m PENDANT	40FT 12.19m PENDANT
55	16.8	0	0	0	0	0	B	0	0	0
65	19.8	1	0	0	2	0	B	2	0	0
75	22.9	0	1	0	0	2	B	0	2	0
85	25.9	1	1	0	2	2	A	2	2	0
95	29.0	0	2	0	0	4	A	0	4	0
		0	0	1	0	0	A	0	0	2
105	32.0	1	2	0	2	4	A	2	4	0
		1	0	1	2	0	A	2	0	2
115	35.1	0	1	1	0	2	A	0	2	2
125	38.1	1	1	1	2	2	A	2	2	2
135	41.2	0	2	1	0	4	A	0	4	2
145	44.3	1	2	1	2	4	A	2	4	2

BOOM HANDLING INSTRUCTIONS					SWING ALLOWED	
TRAVEL SPEED NOT TO EXCEED 1/2 MPH WITH BOOM ANGLE AT 10° OR LESS					CRAWLERS RETRACTED CTWTS INSTALLED	CRAWLERS EXTENDED CTWTS INSTALLED
ATTACHMENT ARRANGEMENT	GANTRY POSITION	MAX. LENGTH OF BOOM HANDLED	BOOM MAKE UP	BOOM CONDITIONS OR LIMITATIONS		
EQUALIZER PINNED TO LUGS ON BOOM BUTT	UP	48'	BUTT & TRANSITION INSERT ONLY	CAN CANTILEVER 29 FT. TRANSITION INSERT.	NO*	YES
	DOWN	48'	BUTT & TRANSITION INSERT ONLY	CAN CANTILEVER 29 FT. TRANSITION INSERT.	NO*	YES
* MACHINE MUST BE FACING FRONT OR REAR (SWING NOT ALLOWED)						



1210-0050 BASIC JIB FOR 50 FT.

22	WASHER	12535	6
23	2PIN	74079	
24	2PIN	172988	
25	2PIN	177303	
26	1BUILDERS PLATE	181503	12
27	2BACKSTAY LINK	194611	
28	2PIN	194642	
29	2PIN	194645	
30	2PIN	194646	
31	1LUFFING JIB BUTT ASSEMBLY	195086	
32	1JIB STOP ASSEMBLY	195089	
33	1JIB POINT ROLLER ASSEMBLY	195091	
34	1AUTO JIB STOP/ANGLE INDICATOR ASS'Y	195093	
35	2KEEPER, HINGE PIN	195345	
36	2PIN	195349	
37	2PENDANT 17'-7.50"	277490	3
38	2PENDANT 10'-4.00"	277494	2
39	4SAFETY SNAP PIN .375	563822	
40	4#4 X .31(8MM) LG. TYPE J DRIVE SCREW	620656	
41			
42			
43			
44			
45			
46			

1210-8000 MAIN STRUT ASSEMBLY

47	4MAIN STRUT ASSEMBLY	195087	
1210-8100 MAIN STRUT ASSEMBLY			
48	1MAIN STRUT ASSEMBLY	417382	
49	4WASHER	194348	

1210-5200 JIB STRUT ASSEMBLY

50	1JIB STRUT ASSEMBLY	195088	
51	4WASHER	194349	

1210-5250 JIB STRUT ASSEMBLY

52	1JIB STRUT ASSEMBLY	195912	
1210-0110 PENDANT JIB BACKSTAY FOR USE W/BOOM TRANSITION INSERT			
53	2PENDANT 34'-8.50"	277495	2
1210-0120 PENDANT 10 FT (3.05M) JIB BACKSTAY FOR USE W/10' BOOM INSERT			
54	2PENDANT 10'	277491	2
1210-0130 PENDANT 20 FT (6.10M) JIB BACKSTAY FOR USE W/20' BOOM INSERT			
55	2PENDANT 20'	277492	2
1210-0140 PENDANT 40 FT (12.19M) JIB BACKSTAY FOR USE W/40' BOOM INSERT			
56	2PENDANT 40'	277493	2
57			

REFERENCE JIB PARTS LIST

R11	2PENDANT 10'	276737	3
R12	2PENDANT 20 FT	276738	3
R13	2PENDANT 40 FT	276810	3
R14	2PENDANT	277214	3
R15			
R16	1INSERT 40 FT	910836	
R17	1INSERT 40 FT WITH BACKSTAY LUG	910837	
R18	1INSERT 20 FT	910838	
R19	1INSERT 20 FT WITH BACKSTAY LUG	910839	
R20	1INSERT 10FT	910840	
R21	1INSERT 10 FT WITH BACKSTAY LUG	910841	
R22	1JIB TOP ASSEMBLY	911207	

OPTIONAL JIB ASSEMBLY LIST

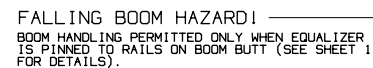
R23	1UNIVERSAL WIRE ROPE ANCHOR JOINT ASS'Y	166936	
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BILL OF MATERIAL				ASSEMBLIES USED ON
ITEM NO.	DESCRIPTION	QTY	MATERIAL	
1210-0000 BASIC BOOM FOR 55FT				
1	1EQUALIZER RAIL ASSEMBLY	195082		
2	1BOOM CAP 7FT ASSEMBLY	195083	11	
3	1BOOM BUTT 19FT ASSEMBLY	195084		
4	1TRANSITION INSERT 29FT ASSEMBLY	195085	14	
5	1SPREADER ASSEMBLY	195336		
6	2PENDANT	277500		
7				
8				
1210-7500 GANTRY ASSEMBLY				
9	1GANTRY ASSEMBLY	195166		
1210-7550 GANTRY ASSEMBLY				
10	1GANTRY ASSEMBLY	417341	13	
1210-0005 REAR DRUM LUFFING ROPE FOR 5:1 CODE REQUIREMENT				
A 11	1WIRE ROPE 22mm X 525' LG	719420		
1210-0006 REAR DRUM LUFFING ROPE				
12	1WIRE ROPE .875 X 525' LG	719111		
1210-0011 REAR DRUM LUFFING ROPE FOR 5:1 CODE REQUIREMENT				
C 58	1WIRE ROPE .875 X 525' LG	719424		
1210-0012 REAR DRUM LUFFING ROPE				
D 59	1WIRE ROPE .875 X 400' LG	719094		
1210-0007 BOOM HOIST WIRE ROPE FOR 5:1 CODE REQUIREMENT				
13	1WIRE ROPE .625 X 480' LG	719423		
1210-0008 BOOM HOIST WIRE ROPE				
14	1WIRE ROPE .625 X 480' LG	719345		
1210-0009 BOOM HOIST WIRE ROPE				
15	1WIRE ROPE .625 X 480' LG	719286		
1210-0010 INSERT 10 FT.				
16	1INSERT 10 FT.	194499		
17	2PENDANT 10 FT - 1.00	277448	1	
1210-0020 INSERT 20 FT.				
18	1INSERT 20 FT.	194500		
19	2PENDANT 20 FT - 1.50	277449	1	
1210-0030 INSERT 40 FT.				
20	1INSERT 40 FT.	194501		
21	2PENDANT 40 FT - 3.00	277450	1	
REFERENCE BOOM PARTS LIST				
R1	WASHER	12535	6	
R2	2PENDANT	276938	5	
R3	4PIN, SNAP	563823	5	
R4	1EQUALIZER ASSEMBLY	912004		
R5	1BOOM STOP ASSEMBLY	912307	9	
R6				
OPTIONAL BOOM ASSEMBLY LIST				
R7	1WIRE ROPE GUIDE SUB-ASSEMBLY	193951		
R8	1FRONT MOUNTED AUX WINCH ASSEMBLY	911206		
R9				
R10				

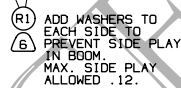
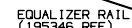
- ① SEE DRAWING 77535.
- ② SEE DRAWING 139387.
- ③ SEE DRAWING 75002.
- ④ SEE DRAWING 77523.
- ⑤ SEE VIEW C (SHT 2). REQUIRED FOR BOOM HANDLING. ALSO USED FOR COUNTERWEIGHT HANDLING. SEE DRAWING 77523.
- ⑥ QUANTITY AS REQUIRED. SEE SECTIONS "B"- "B" OR "H"- "H" SHT 2.
- ⑦ FOR BOOM AND JIB ALLOWABLE INSERT COMBINATIONS SEE TABLES.
- ⑧ STARTING WITH THE BOOM/JIB BUTT, INSERTS MUST BE INSTALLED IN ORDER OF ASCENDING LENGTH.
- ⑨ SEE VIEW "D".
- ⑩ REAR DRUM MUST BE EQUIPPED WITH RATCHET AND PAWL (REF 195092). IF MACHINE NOT EQUIPPED FOR RATCHET AND PAWL SEE MODIFICATIONS (REF 417343 AND 417344).
- ⑪ ANY STRUT STOP ASSEMBLY (195269) USING STRUT (195308) OF DWG DATE PRIOR TO 3/20/00 MUST BE MODIFIED PER (417379).
- ⑫ STAMP DATA ON 181503 AND INSTALL AFTER PAINTING.
- ⑬ REQUIRED IF MACHINE IS NOT EQUIPPED WITH GANTRY ASSEMBLY 195166.
- ⑭ ANY TRANSITION INSERT (194502) THAT USES AN EQUALIZER RAIL (195374) MADE PRIOR TO THE 4/5/00 REVISION, THAT IS TO BE USED WITH AUX. DRUM MUST MODIFY (195347) PER (417385).

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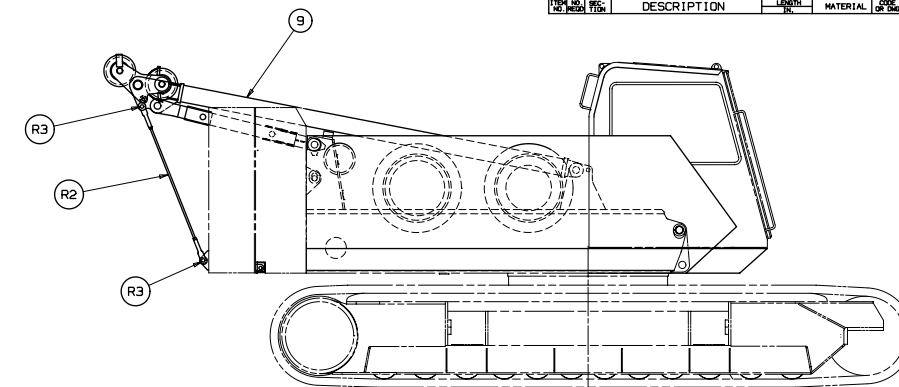
1. CONNECT EQUALIZER TO SPREADER WITH LINK "A" (195338 REF).
2. RAISE EQUALIZER PAST EQUALIZER RAIL (195347 REF). SLIDE UP AND PIN EQUALIZER RAIL (195346 REF).
3. LOWER EQUALIZER TO RAIL. UNPIN AND STOW LINK "A".
4. SLIDE EQUALIZER FORWARD TO SPREADER AND PIN.
5. RAISE EQUALIZER, SPREADER AND PENDANTS TO TENSION.



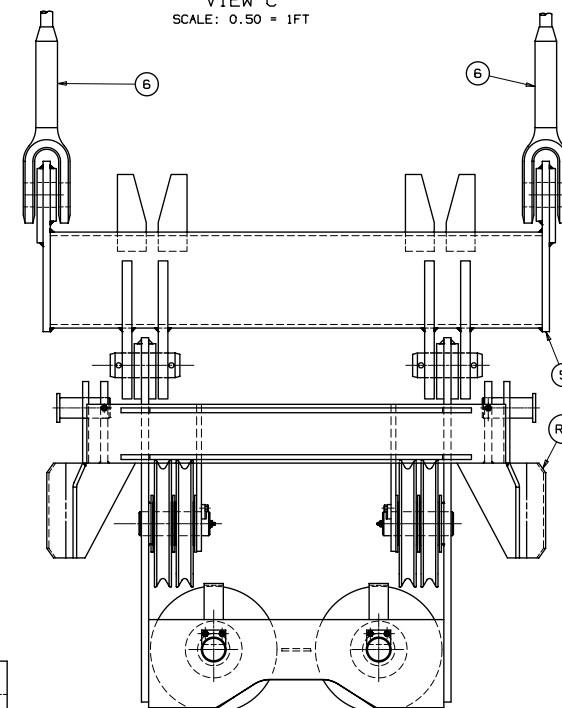
DO NOT ATTEMPT TO HANDLE BOOM BY ATTACHING
EQUALIZER TO RAILS ON BOOM INSERT. STRUCTURAL
FAILURE COULD OCCUR, ALLOWING BOOM TO FALL.



SECTION B-B
SCALE 6=1FT



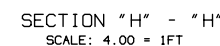
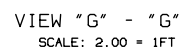
VIEW C
SCALE: 0.50 = 1FT



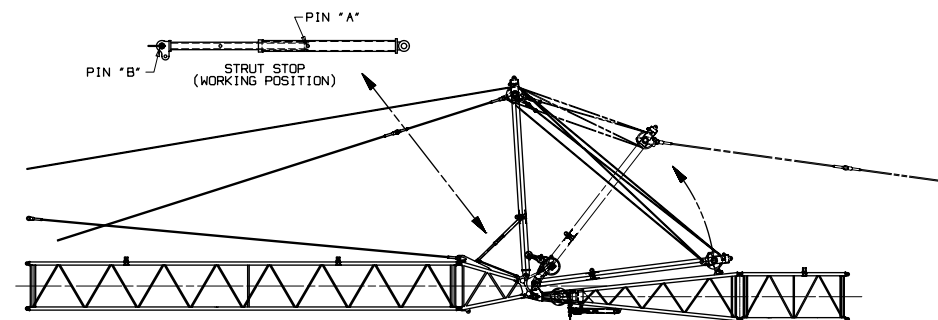
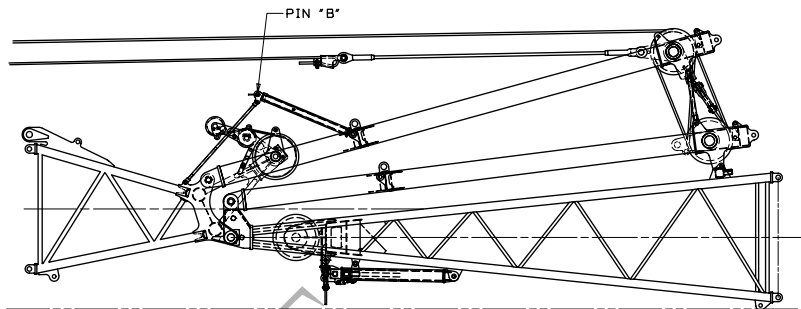
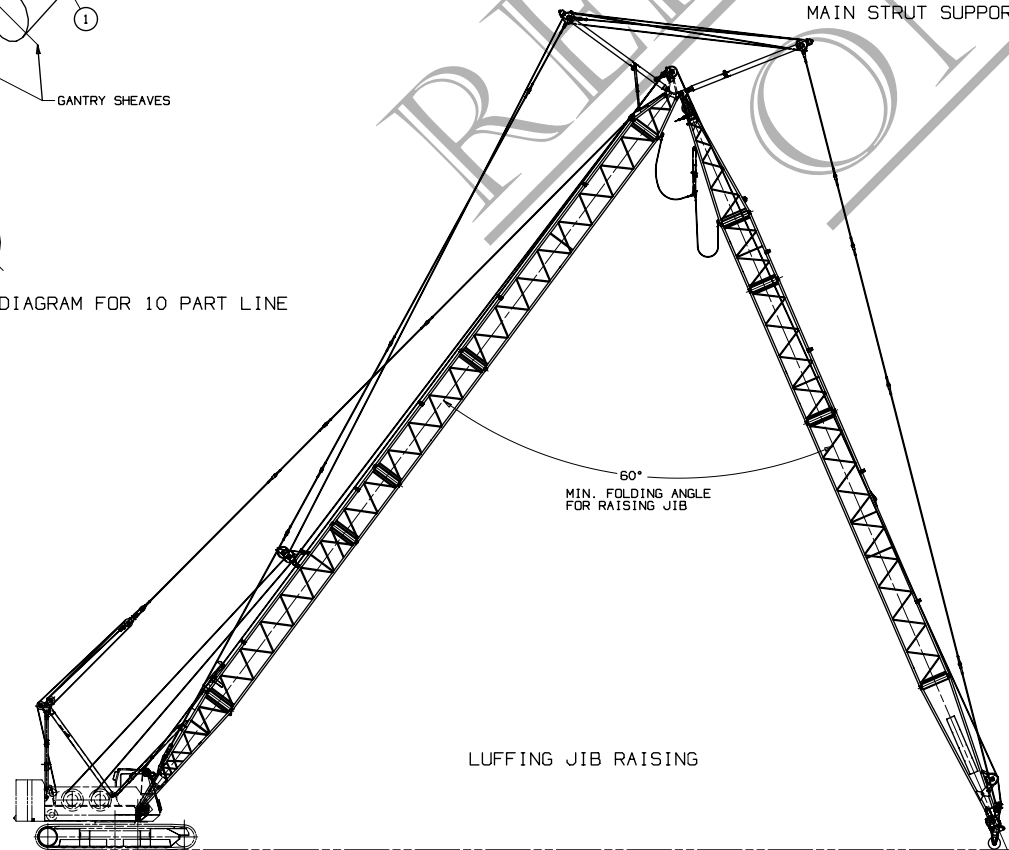
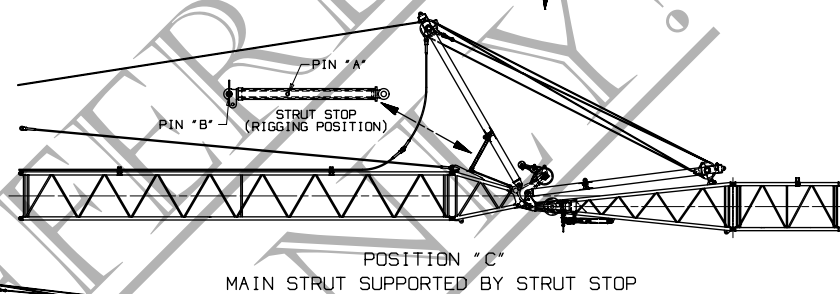
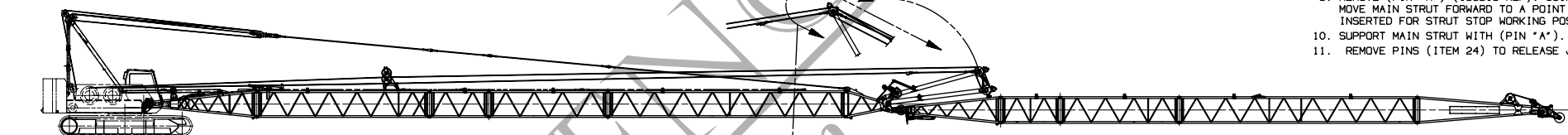
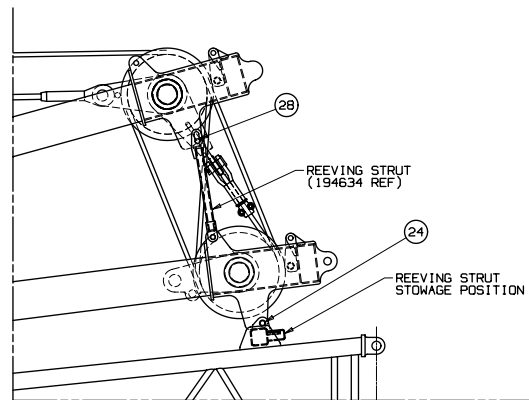
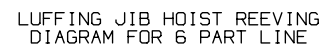
SECTION "E" - "E"
SCALE: 2.00' = 1FT



SECTION "J" - "J"
SCALE: 2.00' = 1FT



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	ORIGINAL PLACES	FABRICATION	FINISHING	DR. JCC		
	(1) PLACE 0.00 ± .120	(1) PLACE 0.00 ± .180	(1) PLACE 0.00 ± .030	DR. TSC		
	(2) PLACE 0.00 ± .060	(2) PLACE 0.00 ± .120	(2) PLACE 0.00 ± .015	MODEL 222		
	(3) PLACE 0.000	(3) PLACE 0.000	(3) PLACE 0.000	APP. TSC		



POSITION "D"
MAIN STRUT SUPPORTED BY PIN "A" IN STRUT STOP

BILL OF MATERIAL					
ITEM NO. NO. PRECEDING	SECTION	DESCRIPTION	LENGTH IN.	MATERIAL	CODE NO. OR DWG. NO.

REEVING PROCEDURE (SEE STEP 1)

1. MOUNT AND PIN JIB STRUT ASSEMBLY (ITEM 52) TO JIB BUTT (ITEM 31) WITH PIN (ITEM 30).
2. MOUNT AND PIN MAIN STRUT (ITEM 47) TO BOOM CAP (ITEM 2) WITH PIN (ITEM 29). PIN (REEVING STRUT) FROM MAIN STRUT TO JIB STRUT.
3. REEVE RIGGING AS SHOWN IN REEVING DIAGRAM.

MAIN STRUT ERECTION PROCEDURE
(SEE STEP 2)

DANGER: DO NOT STAND UNDER MAIN STRUT DURING ERECTION.

1. (REEVING STRUT) MUST BE IN PLACE.
2. ATTACH ONE JIB BACKSTAY PENDANT (ITEM 38) TO FRONT DRUM LOAD LINE.
3. SECURE JIB STRUT TO JIB BUTT WITH PINS (ITEM 24).
4. TIGHTEN LOAD LINE TO SUPPORT MAIN STRUT, THEN UNPIN AND STOW (REEVING STRUT).
5. REMOVE (PIN 'B') (195309 REF).
6. RAISE MAIN STRUT WITH LOAD LINE WHILE PAYING OUT LUFFING HOIST LINE. DO NOT ALLOW LUFFING HOIST RIGGING TO GO INTO TENSION UNTIL MAIN STRUT IS NEAR VERTICAL. (JIB HOIST RIGGING MUST BE MAIN STRUT FROM FALLING BACKWARD AFTER MAIN STRUT REACHES VERTICAL.)
7. WHEN MAIN STRUT GOES OVER CENTER, STOP PULLING LOAD LINE AND USE LUFFING HOIST RIGGING TO LOWER MAIN STRUT UNTIL STRUT STOP REACHES BOOM CAP LUG AS SHOWN IN (POSITION 'C'). REPLACE (PIN 'B').
8. INSTALL JIB BACKSTAY PENDANTS (SEE TABLES).
9. REMOVE (PIN 'A') (195319 REF). USING LUFFING HOIST RIGGING, MOVE MAIN STRUT FORWARD TO A POINT WHEN (PIN 'A') CAN BE INSERTED FOR STRUT STOP WORKING POSITION.
10. SUPPORT MAIN STRUT WITH (PIN 'A'). (SEE POSITION 'D').
11. REMOVE PINS (ITEM 24) TO RELEASE JIB STRUT FROM JIB BUTT.

DMS. NO.
 194529
 SHT 3 OF 3

[illegible]