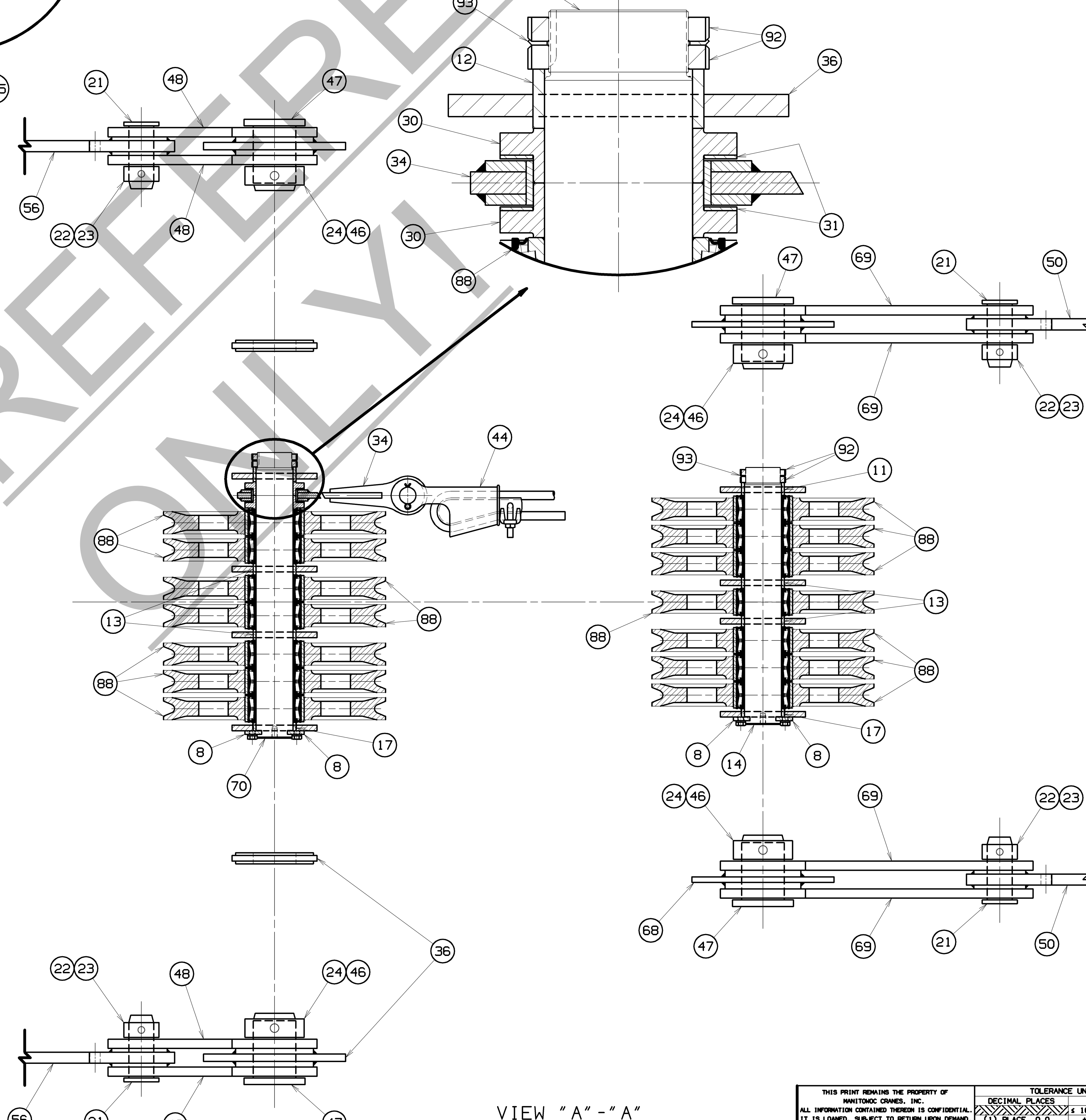
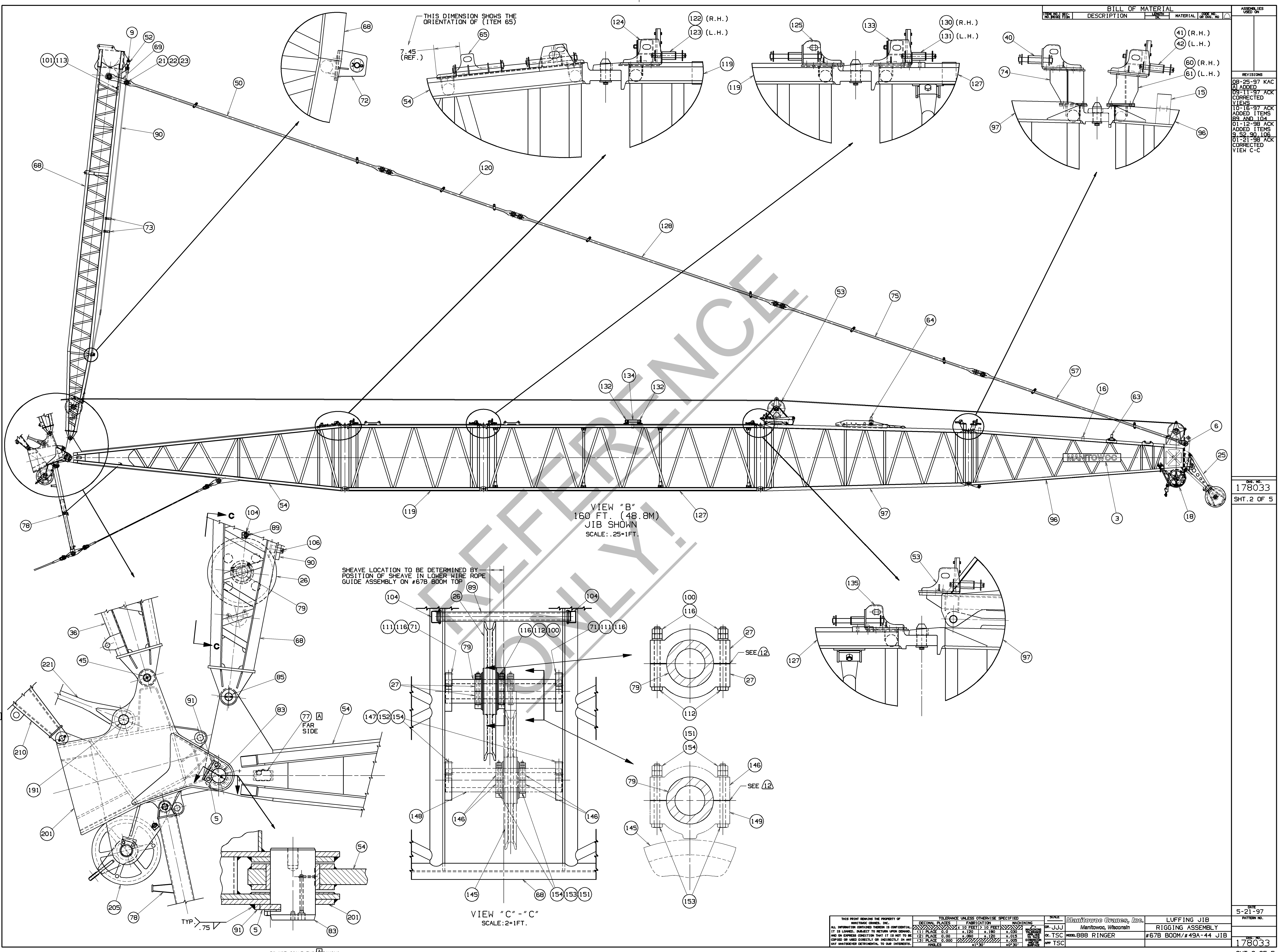


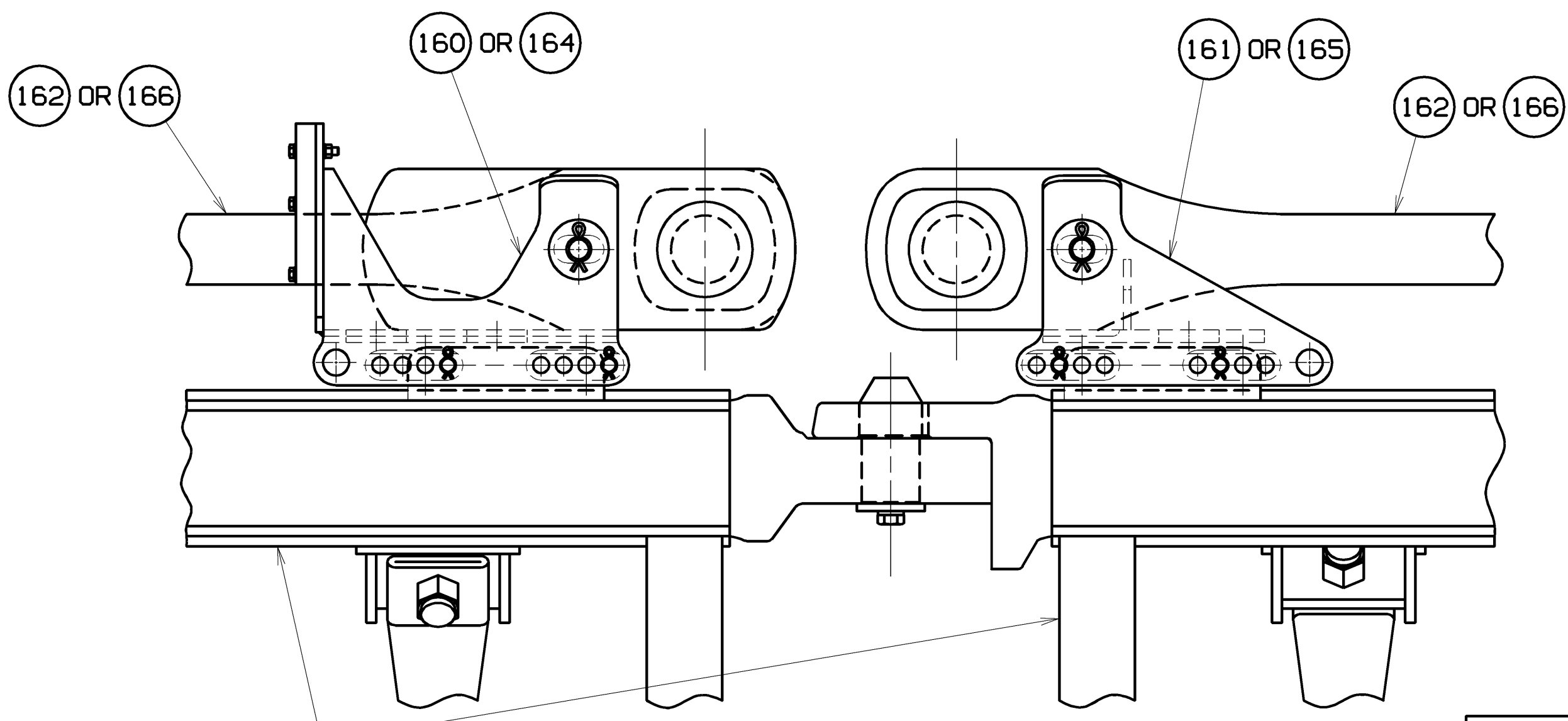
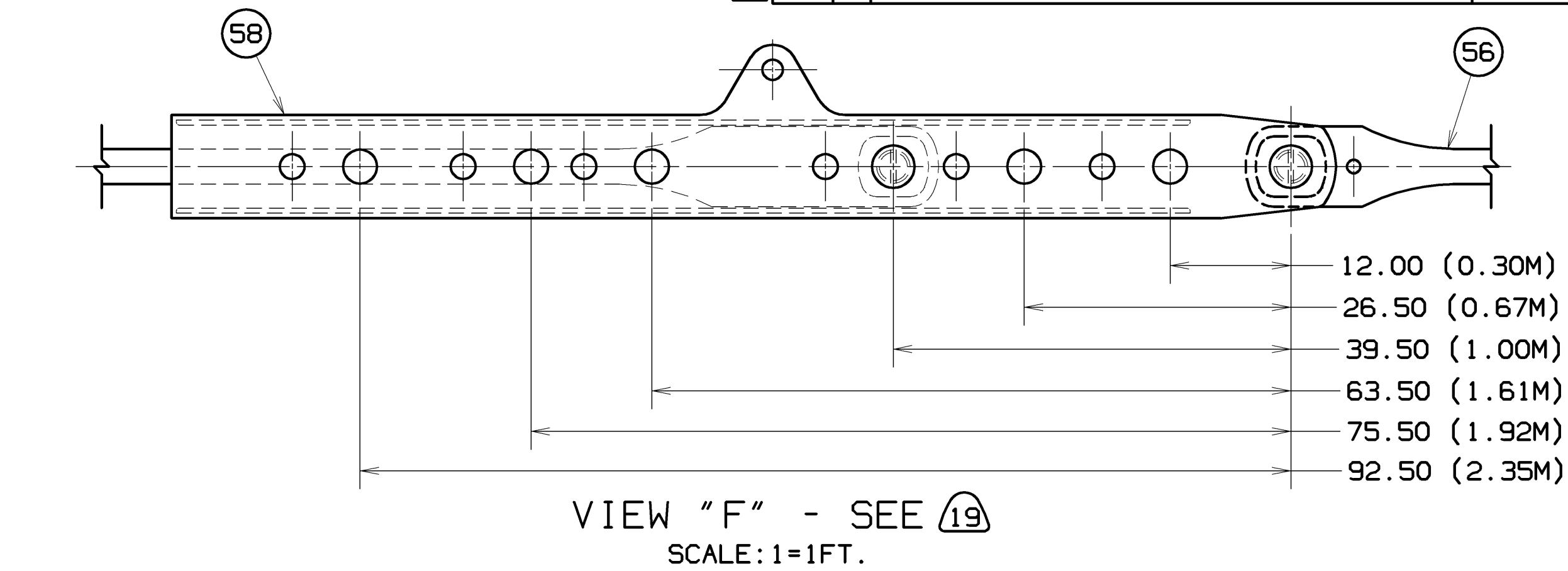


ASSEMBLIES USED ON	
REVISONS	
09-11-97 ACK CORRECTED VIEWS	
11-11-97 ACK ADDED ITEMS 55,57,94 & 99	
01-12-98 ACK ADDED UPDATED VIEWS	
2-5-98 PGD ITEM 44 WAS ITEMS 1.7.32 AND 95	
1-8-02 DW [X] ADDED 1.125 BRIDON DYFORM-6	
01-05-12 JMG [X] ADDED NOTE	
DWG. NO. 178033	
SHT.1 OF 5	
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103754 FOR COMPONENTS LISTED IN GOS500-05-035	
DATE 5-21-97	
PATTERN NO.	
DWG. NO. 178033	



BILL OF MATERIAL					ASSEMBLIES USED ON
ITEM NO.	DESCRIPTION	QTY	MATERIAL	DATE	
1	108-25-97 KAC				
2	109-11-97 ACK				
3	110-16-97 ACK				
4	111-17-97 ACK				
5	112-18-97 ACK				
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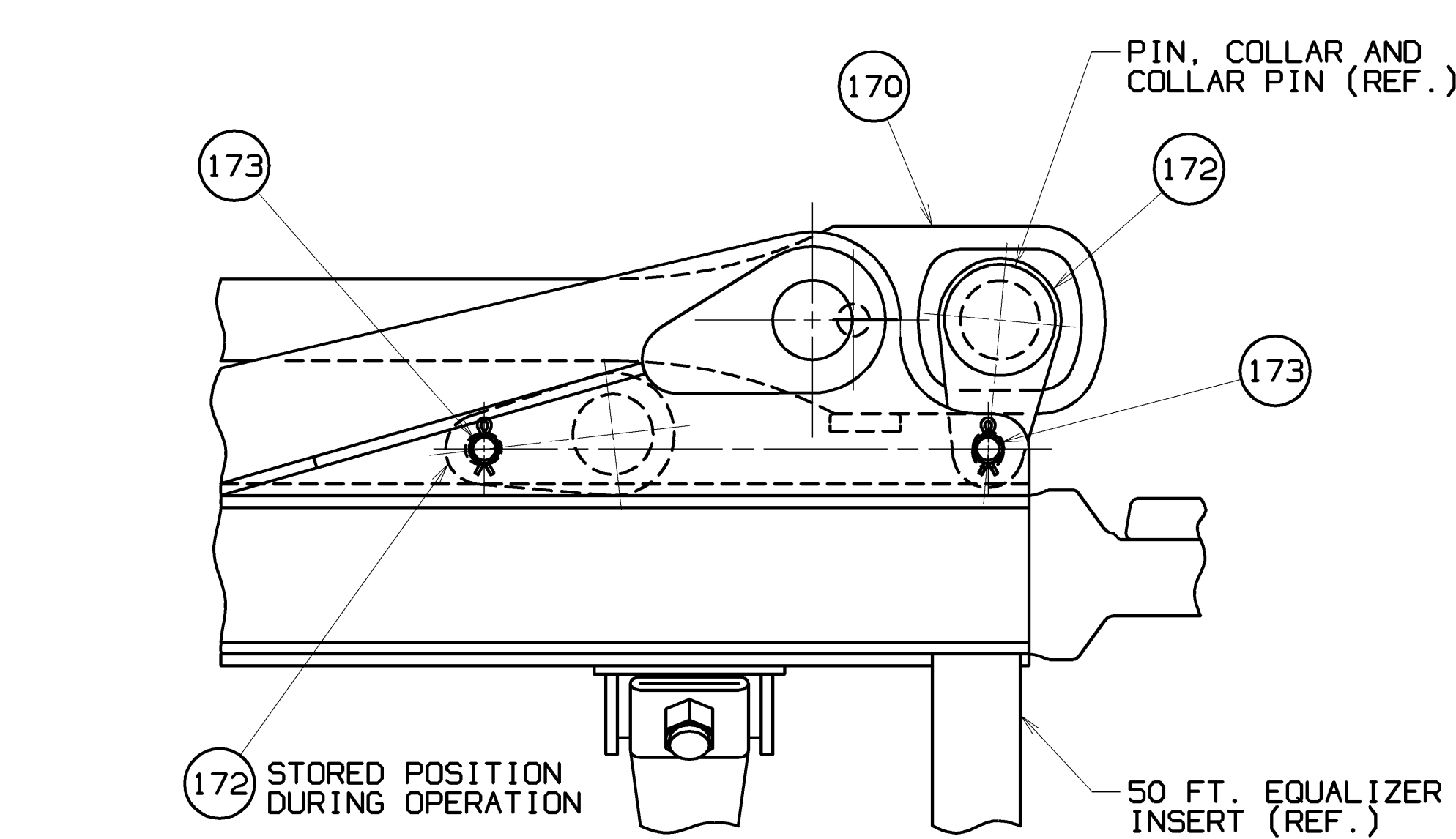
BILL OF MATERIAL						
ITEM	QTY	SEC	DESCRIPTION	UNIT	MATERIAL	QTY REQ. LIST
NO.	REQD	TYPE		IN		
BOOM RIGGING OPTIONAL ASSEMBLY LIST						
238			DRUM SHAFT ASSEMBLY - AUX.			177255 30
239	1		CAT WALK ASSY 40FT #49A-#44 BUTT			81016970 35
240	1		CAT WALK ASSY 30FT #44 TOP			81016954 35
241			WIRE ROPE GUIDE ASSEMBLY			177885 30
242	1		CAT WALK ASSY 30FT #49A #44 TRANSITION INSERT			81016971 35
243			WIRE ROPE GUIDE ASSEMBLY			177899 30
244	1		CAT WALK ASSY 20FT #49A INSERT			81016952 35
245			TIMBER (STORAGE)			177756 31
246			DEAD END PENDANT ASSEMBLY			178472
247			SWIVEL ASSEMBLY			178673
248			CAT WALK ASSY 40FT #49A INSERT			81016953 35
249			CAT WALK ASSY 25FT #67B INSERT			81016950 35
250			CAT WALK ASSY 50FT #67B INSERT			81016951 35
251			CAT WALK ASSY 50FT #67B BOOM BUTT			81016967 35
252			CAT WALK ASSY 50FT #67B TOP			81016968 35
253			CAT WALK ASSY 50FT #67B EQUALIZER INSERT			81016969 35



25 FT. OR 50 FT.
INSERT (REF.)

TYPICAL VIEW SHOWING JIB BACKSTAY
STRAP ASSEMBLY STOWAGE AT INSERT JOINT

SCALE: 2=1 FT.



VIEW "G" - STORAGE OF JIB BACKSTAY STRAP ASSEMBLY
50 FT. (15.2M) USING LINKS (ITEM 172) FOR BOOM
LENGTHS OF 175-325 FT. (53.3-106.7M) - SEE (21)
SCALE: 2=1FT.

BILL OF MATERIAL						
ITEM NO.	QTY	SEC. ITEM	DESCRIPTION	LENGTH IN.	MATERIAL	QTY. NO. OF
BOOM RIGGING ASSEMBLY #67B BOOM (REF.)						
SEE TABLE OF COMPONENTS FOR VARIOUS BOOM LENGTHS						
190			BOOM SIGN			22656
191			PIN			144401
192						
193						
194			BOOM ANGLE INDICATOR ASSEMBLY			168779
195			PIN			173633
196			COLLAR			173676
197			PIN			173679
198			INSERT 25 FT. (7.6M)			177734
199			INSERT 50 FT. (15.2M)			177735
200			BOOM BUTT 50 FT. (15.2M)			177739
201			BOOM TOP 50 FT. (15.2M)			177740
202						
203						
204			MAST RIGGING ASSEMBLY			177810
205			LOWER BOOM POINT ASSEMBLY			177842
206			EQUALIZER ASSEMBLY			177887
207			W.R. GUIDE ASSEMBLY FOR FRONT DRUM			177896
208			BOOM STOP ASSEMBLY			178022
209			INSERT 50 FT. (15.24M)			178058
210			W.R. GUIDE ASSEMBLY - LOWER			178115
211			TIMBER BRACKET			178144
212			TIMBER			178147
213						
214						
215			STRAP SUPPORT			178302
216			STRAP SUPPORT			178303
217			PIN			178304
218			TIMBER BRACKET			178305
219						
220						
221			STRAP ASSEMBLY 15FT-9.00 (4.8M)			178361
222			STRAP ASSEMBLY 35 FT. (10.7M)			178362
223			STRAP ASSEMBLY 50 FT. (15.2M)			178363
224			STRAP ASSEMBLY 25 FT. (7.6M)			178364
225			STRAP BRACKET ASSEMBLY			178369
226			STRAP BRACKET ASSEMBLY			178370
227			STRAP BRACKET ASSEMBLY (R.H.)			178371
228			STRAP BRACKET ASSEMBLY (R.H.)			178372
229			STRAP BRACKET ASSEMBLY (L.H.)			178373
230			STRAP BRACKET ASSEMBLY (L.H.)			178374
231						
232						
233			STRAP BRACKET ASSEMBLY			178382
234			STRAP ASSEMBLY 6FT. -2.94 (1.9M)			178416
235			STRAP BRACKET ASSEMBLY			178580
236						
237						

INSERTS, STRAP AND STRAP BRACKET ASSEMBLIES & TIMBERS REQ'D. FOR VARIOUS JIB LENGTHS												
ITEM NO.		119	127	120	128	76	122 OR 130	123 OR 131	124 OR 133	125 OR 135	132	134
JIB LENGTHS		20 FT 6-10 M INSERT	40 FT 12-19 M INSERT	20 FT 6-10 M STRAP ASSEMBLY SEE (32)	40 FT 12-19 M STRAP ASSEMBLY SEE (32)	4FT-4.0 1.32 M STRAP ASSEMBLY SEE (32)	STRAP BRACKET ASSEMBLY (R.H.)	STRAP BRACKET ASSEMBLY (L.H.)	TIMBER	STRAP BRACKET ASSEMBLY	STRAP BRACKET ASSEMBLY	TIMBER
		FEET	METERS									
100	30.5	0	0	0	0	2	0	0	0	0	0	0
120	36.6	1	0	2	0	2	1	1	1	2	0	0
140	42.7	OR 2 0	0 1	4 0	0 2	2 2	2 1	2 1	2 1	4 2	0 2	0 1
160	48.8	1	1	2	2	0	2	2	2	4	2	1
180	54.9	OR 2 0	1 2	4 0	2 4	0 0	3 2	3 2	3 2	6 4	2 4	1 2
200	61.0	1	2	2	4	0	3	3	3	6	4	2
220	67.1	OR 2 0	2 3	4 0	4 6	0 0	4 3	4 3	4 3	8 6	4 6	2 3
240	73.2	1	3	2	6	0	4	4	4	8	6	3
260	79.2	OR 2 0	3 4	4 0	6 8	0 0	5 4	5 4	5 4	10 8	6 8	3 4
280	85.3	1	4	2	8	0	5	5	5	10	8	4
300	91.4	OR 2 0	4 5	4 0	8 10	0 0	6 5	6 5	6 5	12 10	8 10	4 5
320	97.5	1	5	2	10	0	6	6	6	12	10	5

BILL OF MATERIAL				UNIT	QTY	PRICE	TOTAL
ITEM NO.	QTY	DESC.	UNIT	QTY	PRICE	TOTAL	QTY
BASIC 100 FT. (30.5M) LUFFING JIB RIGGING ASSEMBLY (CONTINUED)							
JIB BACKSTAY COMPONENTS REQUIRED FOR USE WITH VARIOUS BOOM LENGTHS - SEE TABLE							
1650-0100 STRAP ASSEMBLY 25 FT. (7.6M) USED WITH 25 FT. INSERT-BOOM LENGTHS OF 125-325 FT. (38.1-106.7M)-SEE TABLE							
1602	2	STRAP SUPPORT ASSEMBLY			178324	13	
1612	2	STRAP SUPPORT ASSEMBLY			178326	13	
1622	2	STRAP ASSEMBLY 25 FT. (7.62M)			178364	13	
163							
1650-0110 STRAP ASSEMBLY 50 FT. (15.2M) USED WITH 50 FT. INSERT - SEE TABLE & (20)							
1642	2	STRAP SUPPORT ASSEMBLY			178324	13	
1652	2	STRAP SUPPORT ASSEMBLY			178326	13	
1662	2	STRAP ASSEMBLY 50 FT. (15.2M)			178363	13	
1672	2	STRAP BRACKET ASSEMBLY			178683	13	
168							
1650-0120 STRAP ASSEMBLY 50 FT. (15.2M) USED WITH 50 FT. EQUALIZER INSERT - BOOM LENGTHS OF 175-250 FT. (53.3-76.2M) - SEE TABLE & (21)							
1692	2	STRAP SUPPORT ASSEMBLY			178326	13	
1702	2	STRAP ASSEMBLY 50 FT. (15.2M)			178363	13	
1712	2	STRAP BRACKET ASSEMBLY			178683	13	
1724		LINK			178742	21	
1732		PIN			178322	21	
174							
175							
176							
177							
178							
179							
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183							
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185							
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187							
188							
189							

BILL OF MATERIAL						
ITEM NO.	QTY	DESC.	DESCRIPTION	LENGTH IN.	MATERIAL	PRICE PER LB.
BASIC 100 FT. (30.5M) LUFFING JIB RIGGING ASSEMBLY (CONTINUED)						
100	8	NUT ST. HEX .625-11UNC			546058	12.35
101	2	WEAR PAD			554170	
102	2	WEAR PAD			554175	
103	2	PIN COTTER ST .375 X 4.00 LG.			562152	
104	10	PIN SAFETY SNAP .375 X 2.25 LG.			563803	
105	4	PIN SAFETY SNAP .25 X 1.75 LG.			563823	
106	1	PIN COTTER STL .50 X 4.00 LG			562172	
107	3	ROLLER			602162	
108	1	ROLLER			602164	
109	2	ROLLER			602171	
110	1	ROLLER			602172	
111	4	SCREW CAP HEX .625-11UNC X 1.50 LG.			612661	13.35
112	4	SCREW CAP HEX .625-11UNC X 6.50 LG.			612691	13.35
113	6	SCR.CAP SOC.FL.HD .50-13NC X1.25LG.			614041	11.35
114						
115						
116	8	WASHER LOCK .625			710307	13.35
117						
118						
1650-0010 INSERT 20 FT. (6.10M)						
119	1	MOD. TO 20 FT. INSERT (174425)			421265	16.35
120	2	STRAP ASSEMBLY 20 FT. (6.10M)			178950	9.35
121						
122	1	STRAP BRACKET ASSEMBLY (R.H.)			178371	13.35
123	1	STRAP BRACKET ASSEMBLY (L.H.)			178373	13.35
124	1	TIMBER			178981	13.35
125	2	STRAP BRACKET ASSEMBLY			179101	13.35
126						
1650-0020 INSERT 40 FT. (12.19M)						
127	1	MOD. TO 40 FT. INSERT (174422)			421265	16.35
128	2	STRAP ASSEMBLY 40 FT. (12.19M)			178799	23.35
129						
130	1	STRAP BRACKET ASSEMBLY (R.H.)			178371	13.35
131	1	STRAP BRACKET ASSEMBLY (L.H.)			178373	13.35
132	2	STRAP BRACKET ASSEMBLY			178980	
133	1	TIMBER			178981	13.35
134	1	TIMBER			178982	
135	2	STRAP BRACKET ASSEMBLY			179101	13.35
136						
1650-0030 1.125 WIRE ROPE FOR USE WITH LAGGING 502388 ON AUX. STINGER DRUM - SEE 26)						
137	1	1.125 X 2000 FT. WIRE ROPE - PYTHON			719400	25.35
138	1	1.125 X 2000 FT. WIRE ROPE - DYFORM			A02750	25.35
139						
140						
141						
142						
143						
144						
OPTIONAL JIB PARTS LIST						
1650-0070 SHEAVE, SHAFT & CLAMPS FOR USE WITH OPT. AUX. DRUM						
145	1	SHEAVE ASSEMBLY FOR 1.125 WIRE ROPE			174843	13.35
146	5	CLAMP			174844	13.35
147	2	KEEPER			179071	13.35
148	1	SHAFT			179201	13.35
149	1	ROPE GUARD CLAMP			179201	
150						
151	12	NUT ST. HEX .625-11UNC			546058	12.35
152	4	SCREW CAP HEX .625-11UNC X 1.50 LG.			612661	13.35
153	6	SCREW CAP HEX .625-11UNC X 6.50 LG.			612691	13.35
154	10	WASHER LOCK .625			710307	13.35
155						
156						
157						
158						
159						

BILL OF MATERIAL					
ITEM NO.	QTY	DESCRIPTION	UNIT	MATERIAL	PRICE PER UNIT
1650-0000 BASIC 100 FT. (30.5M)					
LUFFING JIB RIGGING ASSEMBLY					
SEE TABLE OF COMPONENTS FOR VARIOUS JIB LENGTHS					
1	1	PIN			3531
2	3	PIN			13368
3	2	BOOM SIGN			22656
4	2	PIN			136096
5	2	SHAFT ANCHOR			137448
6	2	PIN			160720
7	1	WEDGE SOCKET			165551
8	4	KEEPER			169810
9	1	PIN			166901
10					
11		SPACER			170666
12		SPACER			170682
13		SPACER			171407
14		SHAFT			171408
15		TIMBER 101.50 IN LG X 3.50 W			81017183
16		TIMBER 94.00 IN LG X 3.50 W			81017184
17		SPACER			172512
18		LOWER BOOM POINT ASSEMBLY			1729609
19					
20					
21		PIN			173633
22		COLLAR			173676
23		PIN			173678
24		PIN			174149
25		LUFF. JIB UPPER POINT ROLLER ASSEM.			174211
26		SHEAVE ASSEMBLY FOR 1.125 WIRE ROPE			174843
27		CLAMP			174844
28					
29		WIRE ROPE GUIDE ASSEMBLY			177897
30		SLEEVE			177107
31		WASHER			177108
32		WEDGE			178110
33		WIRE ROPE GUIDE ASSEMBLY (UPPER)			178116
34		LINK SUB-ASSEMBLY			192058
35					
36		MAIN STRUT			178300
37		STRAP BRACKET ASSEMBLY			178325
38		STRAP SUPPORT ASSEMBLY			178326
39		STRAP ASSEMBLY 27FT. -6.5 (8.4M)			178330
40		STRAP BRACKET ASSEMBLY			178370
41		STRAP BRACKET ASSEMBLY (R.H.)			178371
42		STRAP BRACKET ASSEMBLY (L.H.)			178373
43					
44		WEDGE/SOCKET ASSEMBLY 1.13 WIRE ROPE			846247
45		PIN			178459
46		COLLAR			178460
47		PIN			178461
48		LINK			178463
49		PIN			178469
50		STRAP ASSEMBLY 40FT. (12.2M)			178739
51		STRAP SUPPORT ASSEMBLY			178734
52		LINK			178926
53		WIRE ROPE GUIDE ASSEMBLY			178949
54		40 FT. JIB BUTT			178959
55		STRUT STOP TUBE ASSEMBLY			178963
56		STRAP ASSEMBLY 35FT. -5.0 (10.8M)			178967
57		STRAP ASSEMBLY 30FT. (9.1M)			178968
58		ADJUSTABLE STRAP ASSEMBLY			178971
59					
60		INTERMEDIATE LACING BRACKET (R.H.)			178986
61		INTERMEDIATE LACING BRACKET (L.H.)			178987
62		STRAP SUPPORT ASSEMBLY			178988
63		STRAP BRACKET ASSEMBLY			178993
64		STRAP BRACKET ASSEMBLY			178998
65		STRAP BRACKET ASSEMBLY			178999
66		STRAP SUPPORT			179356
67		CLAMP BAR			179357
68		JIB STRUT			179039
69		LINK			179064
70		SHAFT			179068
71		KEEPER			179071
72		STRAP SUPPORT ASSEMBLY			179085
73		STRAP SUPPORT			179087
74		INTERMEDIATE LACING BRACKET			179100
75		STRAP ASSEMBLY 30FT. -6.75 (9.3M)			179105
76		STRAP ASSEMBLY 4FT. -4.0 (1.32M)			179116
77		JIB STOP & ANGLE IND ASSY (AUTO)			179617
78		JIB STOP ASSEMBLY			179185
79		SHAFT			179200
80		PIN			179202
81		STRUT SUPPORT TUBE			179203
82		STRUT SUPPORT			179204
83		PIN			179205
84		SHAFT			179207
85		PIN			179211
86		PIN			179212
87		SHAFT			179213
88		SHEAVE ASSEMBLY FOR 1.125 WIRE ROPE			179214
89		1ROPE GUARD			179735
90		PENDANT 49 FT			277349
91		BAR - .75 X .75 X 9.50 LG.			129868
92		BEARING LOCKNUT			225105
93		BEARING LOCKWASHER			225111
94		BOLT MACH HEX HD .625-11UNC X 9.50 LG			250527
95		1CLIP - WIRE ROPE			349292
96		1MOD. TO 30 FT. TOP (172878)			412266
97		1MOD. TO 30 FT. TRANS. INSERT (174514)			412267
98		1HYDRAULIC PIPING ASSY FOR STRUT STOP			179569
99		8NUT ELASTIC STOP .625-11UNC			548345

INSERTS, STRAP ASSEMBLIES, STRAP BRACKET ASSEMBLIES, TIMBERS, TIMBER BRACKETS, STRAP SUPPORTS AND PINS REQUIRED FOR VARIOUS BOOM LENGTHS																			JIB BACKSTAY STRAPS, SUPPORTS, BRACKETS, LINKS AND PINS REQUIRED FOR VARIOUS BOOM LENGTHS												
ITEM NO.		198	199	209	228	230	224	222	223	226	227	229	235	212	218	211	216	217	225	162	166 OR 170	160 OR 164	161.165 OR 169	167 OR 171	58	172	173	ITEM NO.			
BOOM LENGTHS		25 FT 7.6 M INSERT	50 FT 15.2 M INSERT	50 FT 15.2 M INSERT	STRAP BRACKET ASSEMBLY (R.H.)	STRAP BRACKET ASSEMBLY (L.H.)	25 FT. 7.6 M STRAP ASSEMBLY	35 FT. 10.7 M STRAP ASSEMBLY	50 FT. 15.2 M STRAP ASSEMBLY	STRAP BRACKET ASSEMBLY	STRAP BRACKET ASSEMBLY (R.H.)	STRAP BRACKET ASSEMBLY (L.H.)	STRAP BRACKET ASSEMBLY SEE (3)	TIMBER	TIMBER BRACKET	TIMBER BRACKET	STRAP SUPPORT	PIN	STRAP BRACKET ASSEMBLY	25 FT 7.62 M STRAP ASSEMBLY SEE (32)	50 FT 15.24 M STRAP ASSEMBLY SEE (32)	STRAP SUPPORT ASSEMBLY	STRAP SUPPORT ASSEMBLY	STRAP BRACKET ASSEMBLY	ADJUSTABLE STRAP ASSEMBLY LENGTH SEE (32)	5.69 0.14 M LINK	PIN	BOOM LENGTHS			
FEET	METERS	SEE (1)	SEE (2)	SEE (27)			SEE (32)	SEE (32)	SEE (32)																			FEET	METERS		
125	38.1	1	0	0	0	0	0	0	0	0	0	0	0	2	4	0	2	2	0	2	0	2	2	0	92.50 IN	0	0	125	38.1		
150	45.7	OR 2 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 3	3 4	6 4	0 2	2 2	2 2	0	4 0	0 2	4 2	4 2	0 2	75.50 IN	0 0	0 0	OR 150	45.7		
175	53.3	1	0	1	1	1	0	2	0	0	0	0	0	4	4	2	0	2	2	2	2	2	4	2	63.50 IN	4	2	175	53.3		
200	61.0	OR 2 0	0 1	1 1	1 1	1 1	0 0	2 2	0 0	0 0	0 0	0 0	0 5	6 4	2 4	2 0	0 0	0 2	4 2	2 4	4 2	6 4	6 4	2 4	39.50 IN	4 4	2 2	OR 200	61.0		
225	68.6	1	1	1	1	1	2	2	0	2	1	1	0	6	4	4	0	0	2	2	4	4	6	4	39.50 IN	4	2	225	68.6		
250	76.2	OR 2 0	1 2	1 1	1 1	1 1	4 0	2 2	0 2	4 2	2 1	2 1	0 2	7 8	4 4	4 6	0 0	0 2	2 4	4 0	4 6	6 4	8 6	4 6	26.50 IN	4 4	2 2	OR 250	76.2		
275	83.8	1	2	1	1	1	2	2	2	4	2	2	2	8	4	6	0	0	2	2	6	6	8	6	26.50 IN	4	2	275	83.8		
300	91.4	OR 2 0	2 3	1 1	1 1	1 1	4 0	2 2	2 4	6 4	3 2	3 2	2 4	9 9	4 4	6 8	0 0	0 2	2 4	4 0	6 8	8 6	10 8	6 8	12.00 IN	4 4	2 2	OR 300	91.4		
325	99.1	1	3	1	1	1	2	2	4	6	3	3	4	10	4	8	0	0	2	2	8	8	10	8	12.00 IN	4	2	325	99.1		

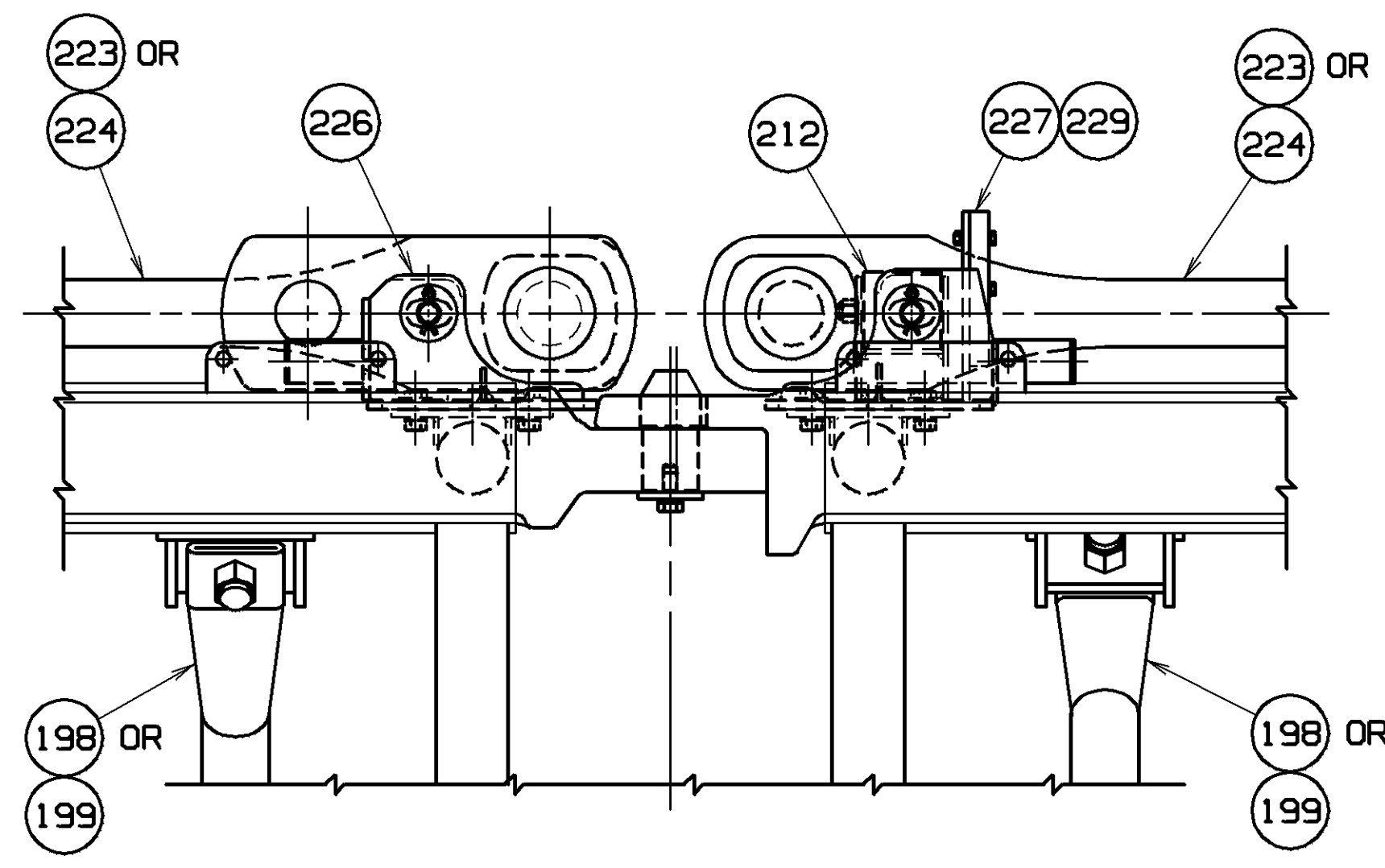
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TOLERANCE UNLESS OTHERWISE SPECIFIED			
DECIMAL PLACES	FABRICATION		MACH
	≤ 10 FEET	> 10 FEET	
(1) PLACE 0.0	±.12	±.18	±.03
(2) PLACE 0.00	±.06	±.12	±.015
(3) PLACE 0.000			±.005
ANGLES	±1' 30"		±0' 30"

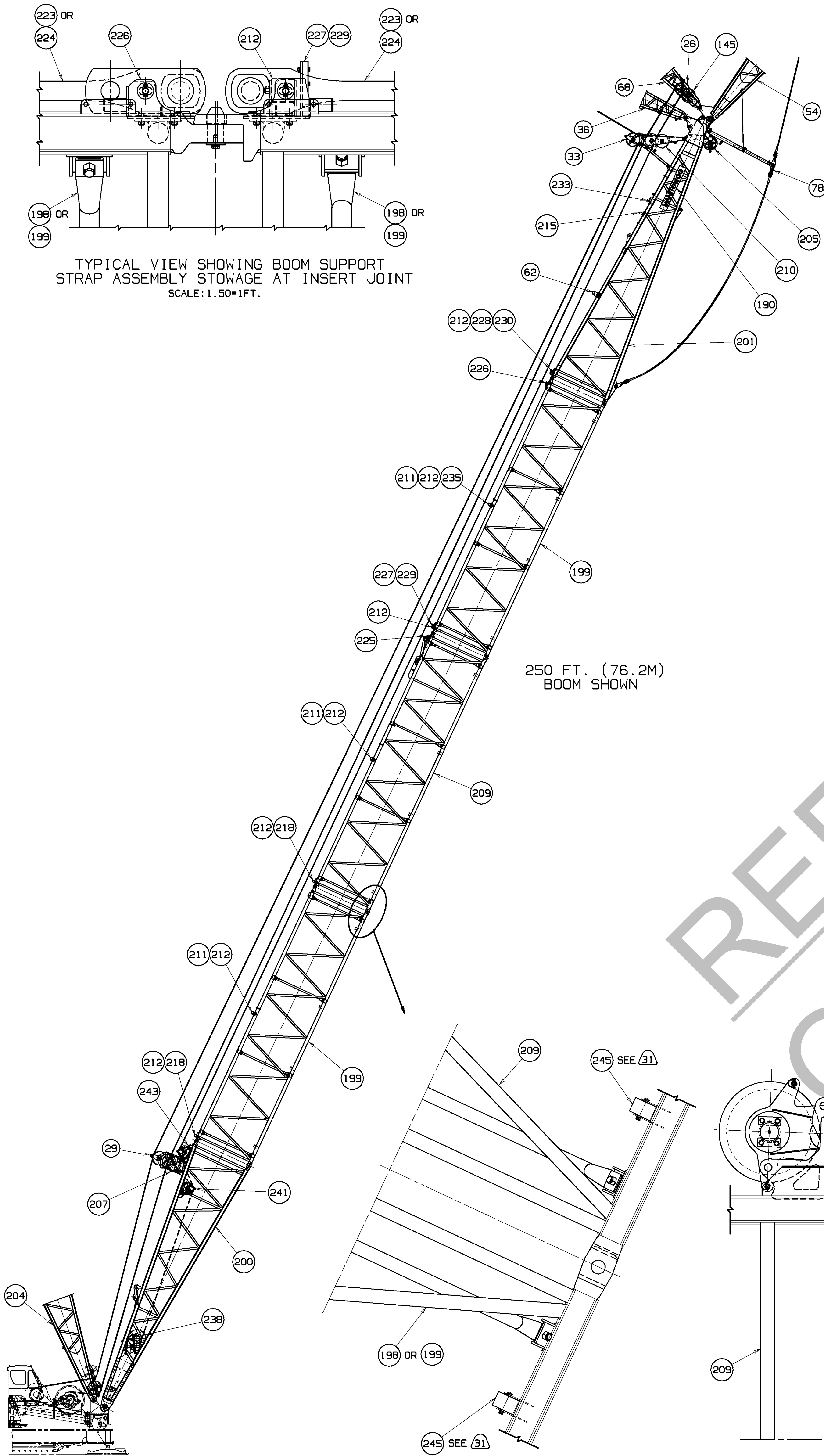
SCALE	Manitowoc Cranes, Inc.	
DR. JJJ	Manitowoc, Wisconsin	
CK. TSC	MODEL 888 RINGER	
APP TSC		

LUFFING JIB
RIGGING ASSEMBLY
#67B BOOM/#49A-44 JIB

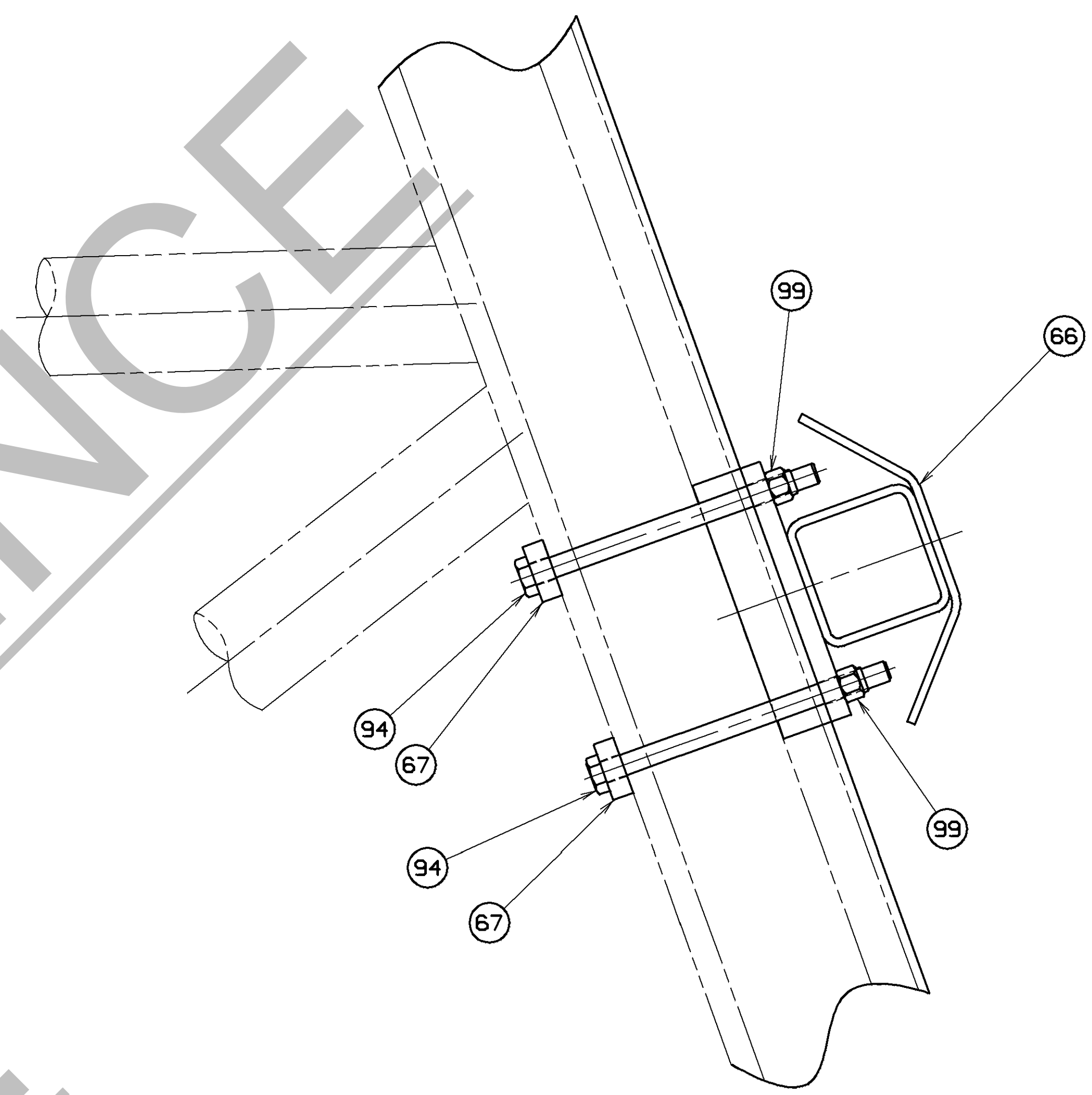
DATE
5-21-97
PATTERN NO.
DMS. NO.
17803



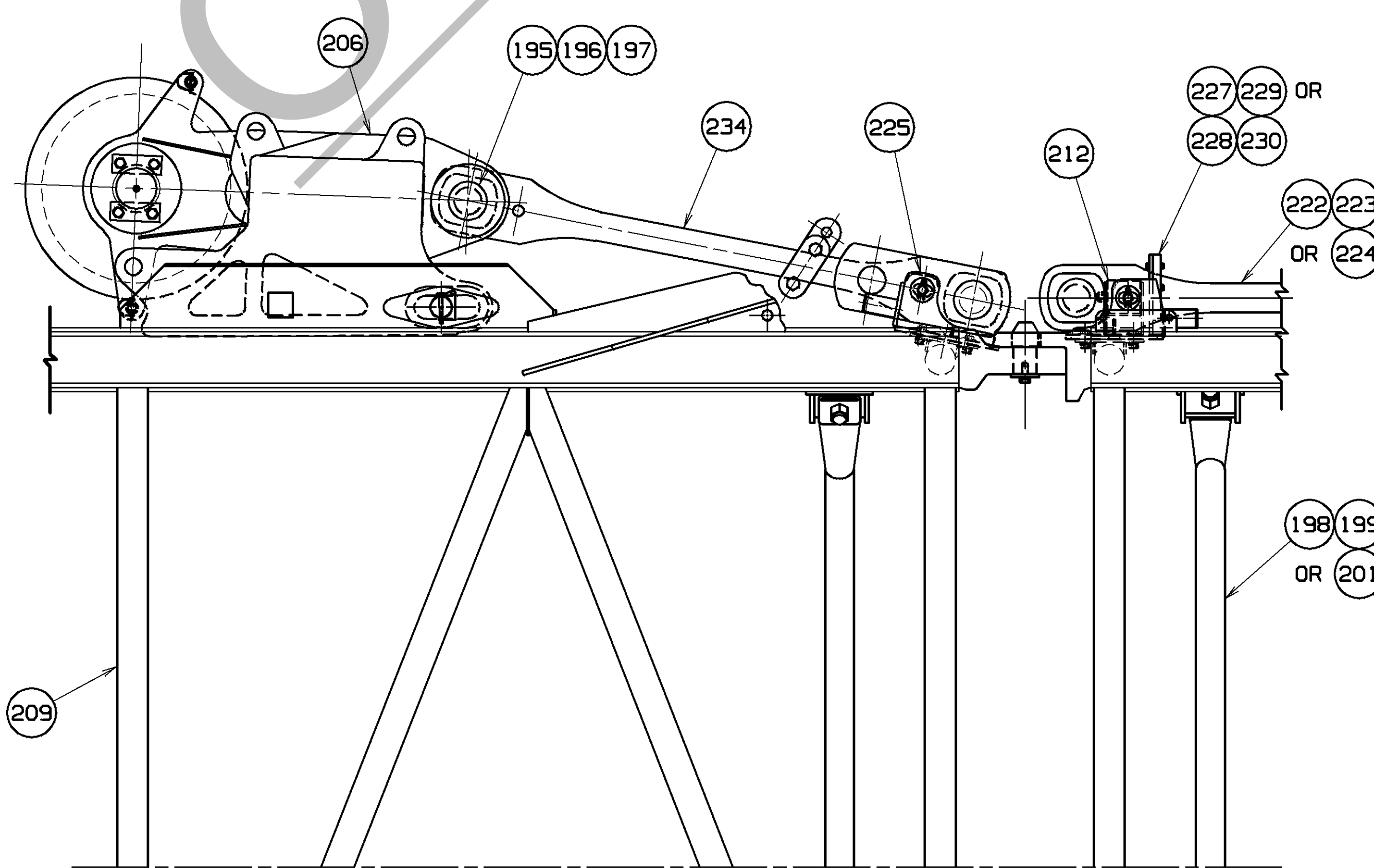
TYPICAL VIEW SHOWING BOOM SUPPORT STRAP ASSEMBLY STOWAGE AT INSERT JOINT
SCALE: 1.50=1FT.



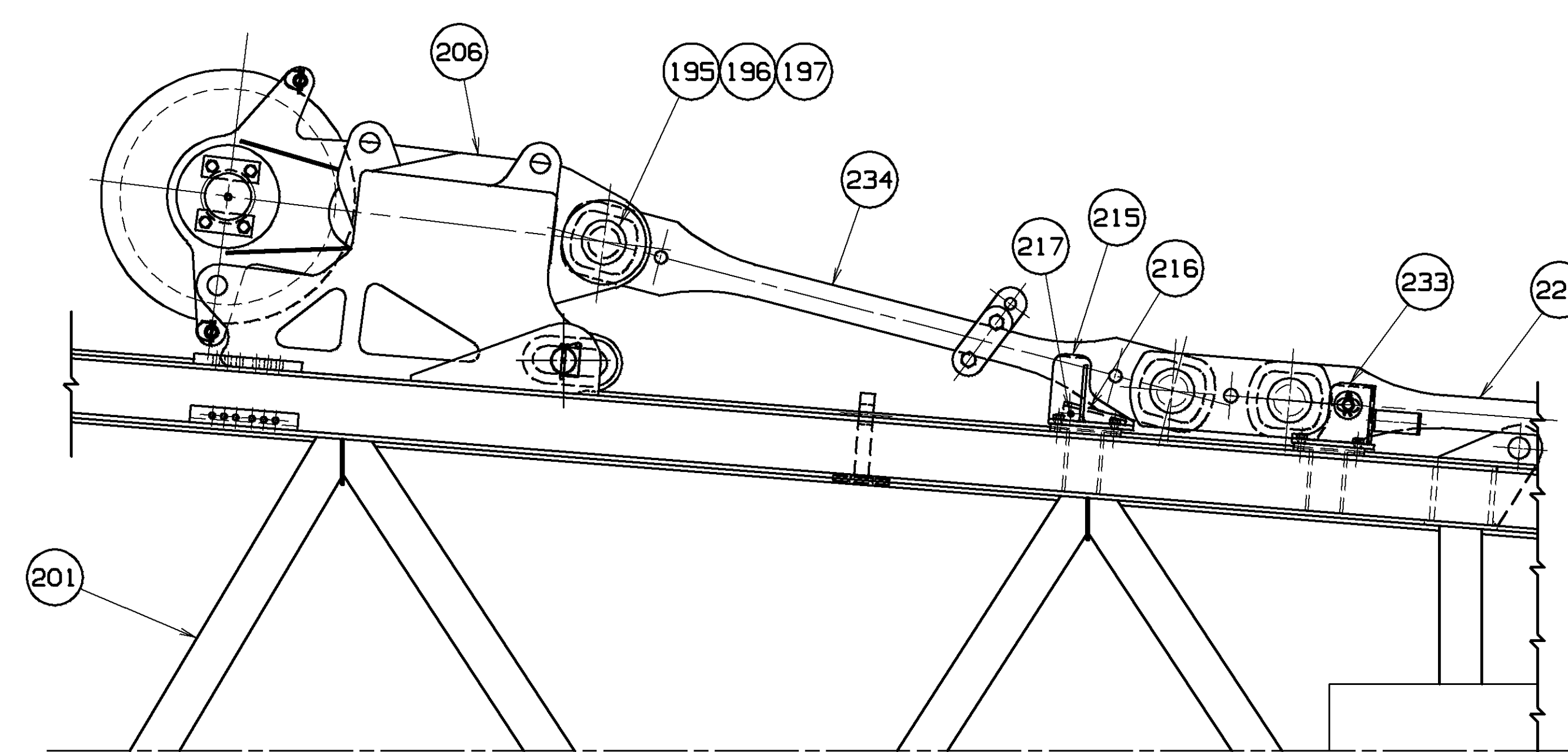
250 FT. (76.2M)
BOOM SHOWN



VIEW K
SCALE: 4=1FT



VIEW SHOWING EQUALIZER STORAGE FOR BOOM
LENGTHS OF 175 TO 325 FT. (53.3 TO 106.7M)
SCALE: 1=1FT.



VIEW SHOWING EQUALIZER STORAGE FOR BOOM
LENGTHS OF 125 & 150 FT. (38.1 & 45.7M)
SCALE: 1=1FT.

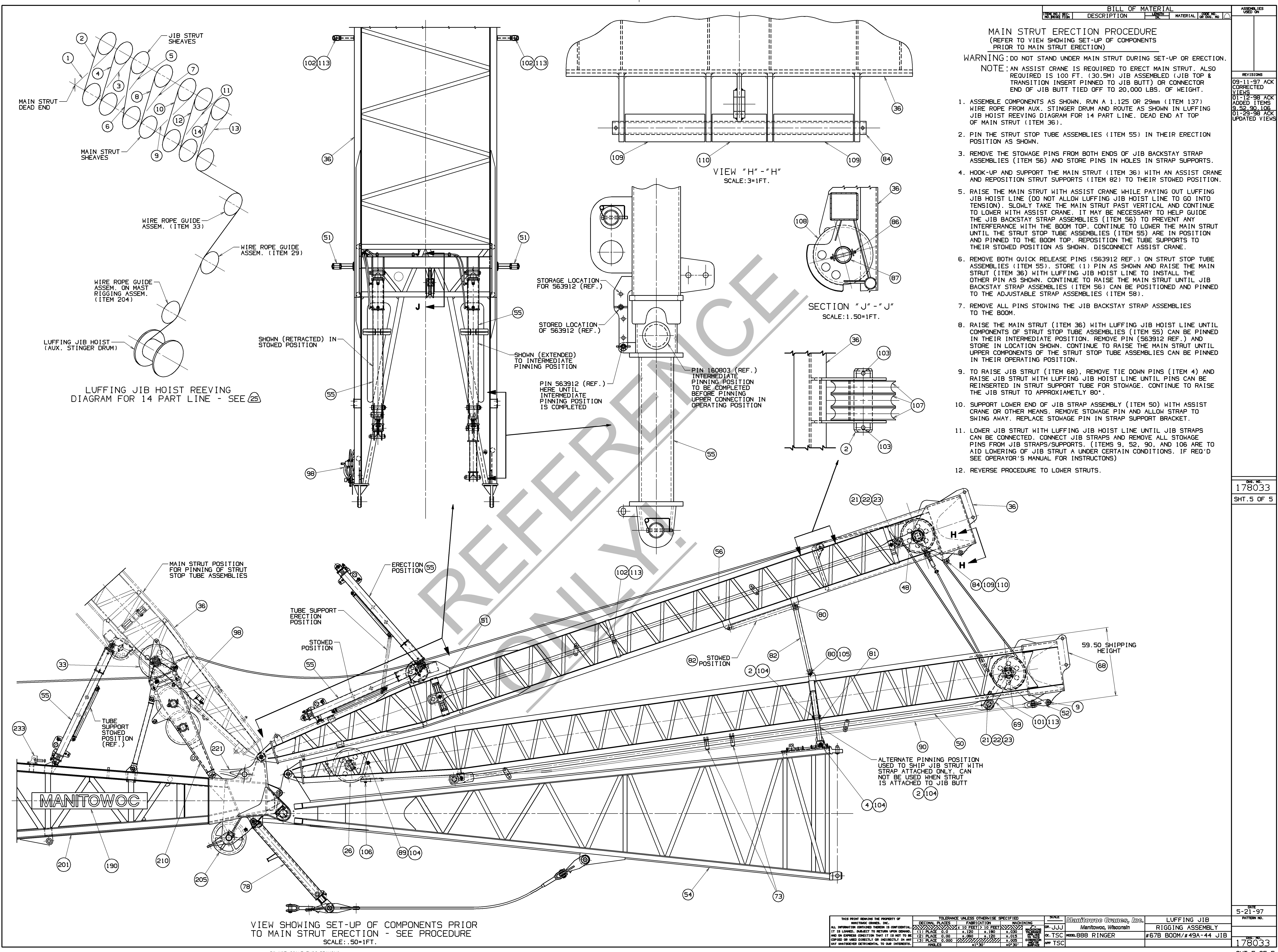
FRONT DRUM, AUX. STINGER DRUM AND AUX. BUTT MOUNTED DRUM RIGGING CONFIGURATION

DO NOT SCALE THIS DRAWING

BILL OF MATERIAL					ASSEMBLIES USED ON	
ITEM NO. NO. REV.	SEC. 11/01	DESCRIPTION	QTY. 1	MATERIAL OR DRG. NO.		
					REVISIONS	
					09-11-97 AC	
					CORRECTED	
					VIEWS	
					11-11-97 AC	
					ADDED VIEW	
					01-12-98 AC	
					UPDATED VIEW	
					DRG. NO.	
					178033	
					SHT. 4 OF 5	
					DATE	
					5-21-97	
					PATTERN NO.	
					DRG. NO.	
					178033	

STORAGE FOR BOOM (38.1 & 45.7M)	
SCALE	Manitowoc Cranes, Inc.
DR. JJJ	Manitowoc, Wisconsin
CK. TSC	MODEL 888 RINGER
APP TSC	#67B BOOM/#49A-44 JIB

LUFFING JIB	
RIGGING ASSEMBLY	
#67B BOOM/#49A-44 JIB	



- ### MAIN STRUT ERECTION PROCEDURE
- (REFER TO VIEW SHOWING SET-UP OF COMPONENTS PRIOR TO MAIN STRUT ERECTION)
- WARNING: DO NOT STAND UNDER MAIN STRUT DURING SET-UP OR ERECTION.
- NOTE: AN ASSIST CRANE IS REQUIRED TO ERECT MAIN STRUT. ALSO REQUIRED IS 100 FT. (30.5M) JIB ASSEMBLED (JIB TOP & TRANSITION INSERT PINNED TO JIB BUTT) OR CONNECTOR END OF JIB BUTT TIED OFF TO 20,000 LBS. OF HEIGHT.
1. ASSEMBLE COMPONENTS AS SHOWN. RUN A 1.125 OR 29mm (ITEM 137) WIRE ROPE FROM AUX. STINGER DRUM AND ROUTE AS SHOWN IN LUFFING JIB HOIST REEVING DIAGRAM FOR 14 PART LINE. DEAD END AT TOP OF MAIN STRUT (ITEM 36).
 2. PIN THE STRUT STOP TUBE ASSEMBLIES (ITEM 55) IN THEIR ERECTION POSITION AS SHOWN.
 3. REMOVE THE STOWAGE PINS FROM BOTH ENDS OF JIB BACKSTAY STRAP ASSEMBLIES (ITEM 56) AND STORE PINS IN HOLES IN STRAP SUPPORTS.
 4. HOOK-UP AND SUPPORT THE MAIN STRUT (ITEM 36) WITH AN ASSIST CRANE AND REPOSITION STRUT SUPPORTS (ITEM 82) TO THEIR STOWED POSITION.
 5. RAISE THE MAIN STRUT WITH ASSIST CRANE WHILE PAYING OUT LUFFING JIB HOIST LINE (DO NOT ALLOW LUFFING JIB HOIST LINE TO GO INTO TENSION). SLOWLY TAKE THE MAIN STRUT PAST VERTICAL AND CONTINUE TO LOWER WITH ASSIST CRANE. IT MAY BE NECESSARY TO HELP GUIDE THE JIB BACKSTAY STRAP ASSEMBLIES (ITEM 56) TO PREVENT ANY INTERFERENCE WITH THE BOOM TOP. CONTINUE TO LOWER THE MAIN STRUT UNTIL THE STRUT STOP TUBE ASSEMBLIES (ITEM 55) ARE IN POSITION AND PINNED TO THE BOOM TOP. REPOSITION THE TUBE SUPPORTS TO THEIR STOWED POSITION AS SHOWN. DISCONNECT ASSIST CRANE.
 6. REMOVE BOTH QUICK RELEASE PINS (563912 REF.) ON STRUT STOP TUBE ASSEMBLIES (ITEM 55). STORE (1) PIN AS SHOWN AND RAISE THE MAIN STRUT (ITEM 36) WITH LUFFING JIB HOIST LINE TO INSTALL THE OTHER PIN AS SHOWN. CONTINUE TO RAISE THE MAIN STRUT UNTIL JIB BACKSTAY STRAP ASSEMBLIES (ITEM 56) CAN BE POSITIONED AND PINNED TO THE ADJUSTABLE STRAP ASSEMBLIES (ITEM 58).
 7. REMOVE ALL PINS STOWING THE JIB BACKSTAY STRAP ASSEMBLIES TO THE BOOM.
 8. RAISE THE MAIN STRUT (ITEM 36) WITH LUFFING JIB HOIST LINE UNTIL COMPONENTS OF STRUT STOP TUBE ASSEMBLIES (ITEM 55) CAN BE PINNED IN THEIR INTERMEDIATE POSITION. REMOVE PIN (563912 REF.) AND STORE IN LOCATION SHOWN. CONTINUE TO RAISE THE MAIN STRUT UNTIL UPPER COMPONENTS OF THE STRUT STOP TUBE ASSEMBLIES CAN BE PINNED IN THEIR OPERATING POSITION.
 9. TO RAISE JIB STRUT (ITEM 68), REMOVE TIE DOWN PINS (ITEM 4) AND RAISE JIB STRUT WITH LUFFING JIB HOIST LINE UNTIL PINS CAN BE REINSERTED IN STRUT SUPPORT TUBE FOR STOWAGE. CONTINUE TO RAISE THE JIB STRUT TO APPROXIMATELY 80°.
 10. SUPPORT LOWER END OF JIB STRAP ASSEMBLY (ITEM 50) WITH ASSIST CRANE OR OTHER MEANS. REMOVE STOWAGE PIN AND ALLOW STRAP TO SWING AWAY. REPLACE STOWAGE PIN IN STRAP SUPPORT BRACKET.
 11. LOWER JIB STRUT WITH LUFFING JIB HOIST LINE UNTIL JIB STRAPS CAN BE CONNECTED. CONNECT JIB STRAPS AND REMOVE ALL STOWAGE PINS FROM JIB STRAPS/SUPPORTS. (ITEMS 9, 52, 90, AND 106 ARE TO AID LOWERING OF JIB STRUT A UNDER CERTAIN CONDITIONS. IF REQ'D SEE OPERATOR'S MANUAL FOR INSTRUCTIONS)
 12. REVERSE PROCEDURE TO LOWER STRUTS.

VIEW SHOWING SET-UP OF COMPONENTS PRIOR TO MAIN STRUT ERECTION - SEE PROCEDURE
SCALE: 50=1FT.

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DECIMAL PLACES	FABRICATION	MACHINING	WELDING	DECIMAL PLACES	FABRICATION	MACHINING	WELDING	DR. JJJ	DR. TSC	DR. TSC	DR. TSC	MODEL 888 RINGER	#67B BOOM/#49A-44 JIB	DATE	5-21-97	PATTERN NO.			
(1) PLACE 0.00	± 0.00	± 0.00	± 0.00	(1) PLACE 0.00	± 0.00	± 0.00	± 0.00												
(2) PLACE 0.00	± 0.00	± 0.00	± 0.00	(2) PLACE 0.00	± 0.00	± 0.00	± 0.00												
(3) PLACE 0.000	± 0.000	± 0.000	± 0.000	(3) PLACE 0.000	± 0.000	± 0.000	± 0.000												
ANGLES	± 1°	± 1°	± 1°	ANGLES	± 1°	± 1°	± 1°												