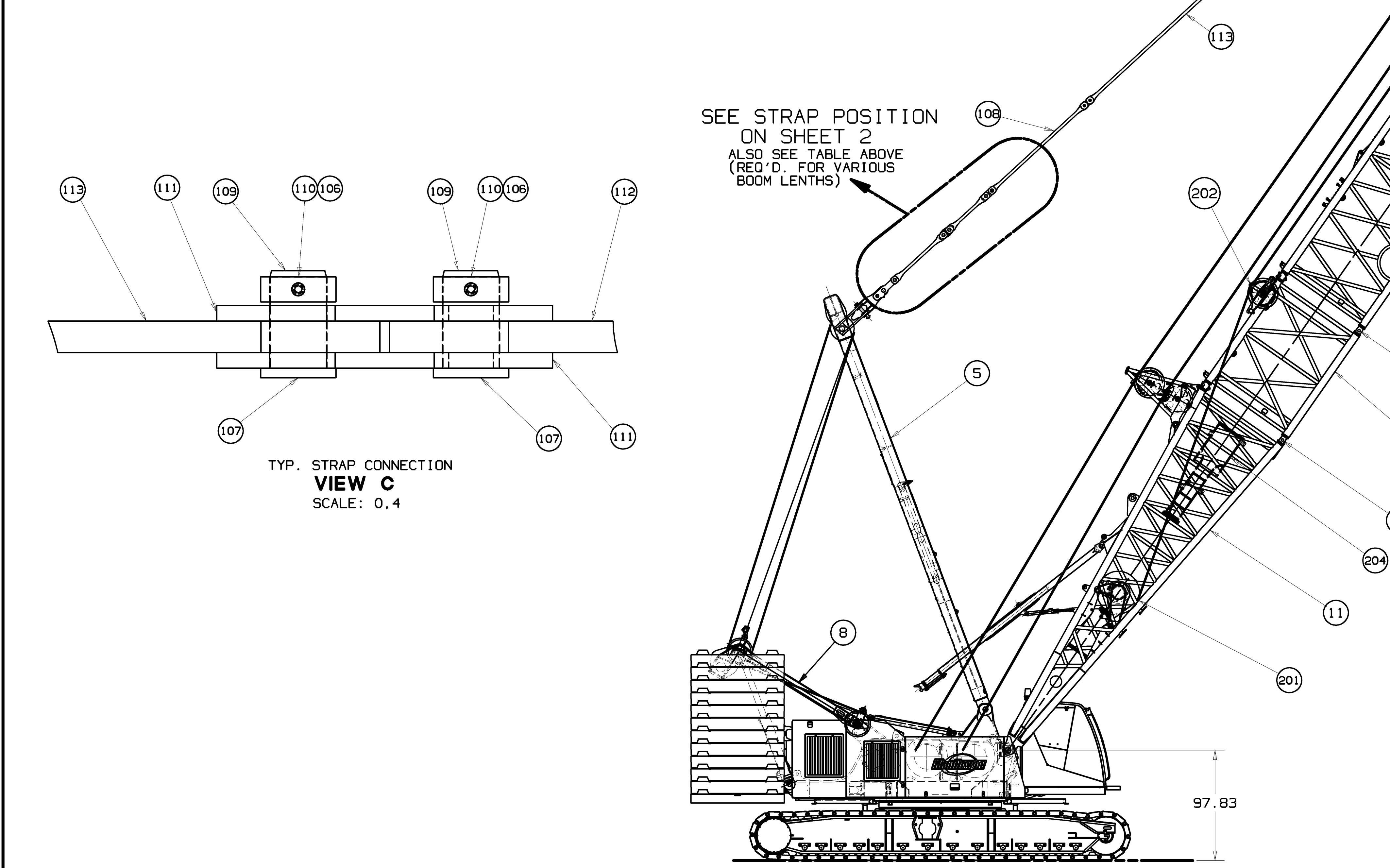
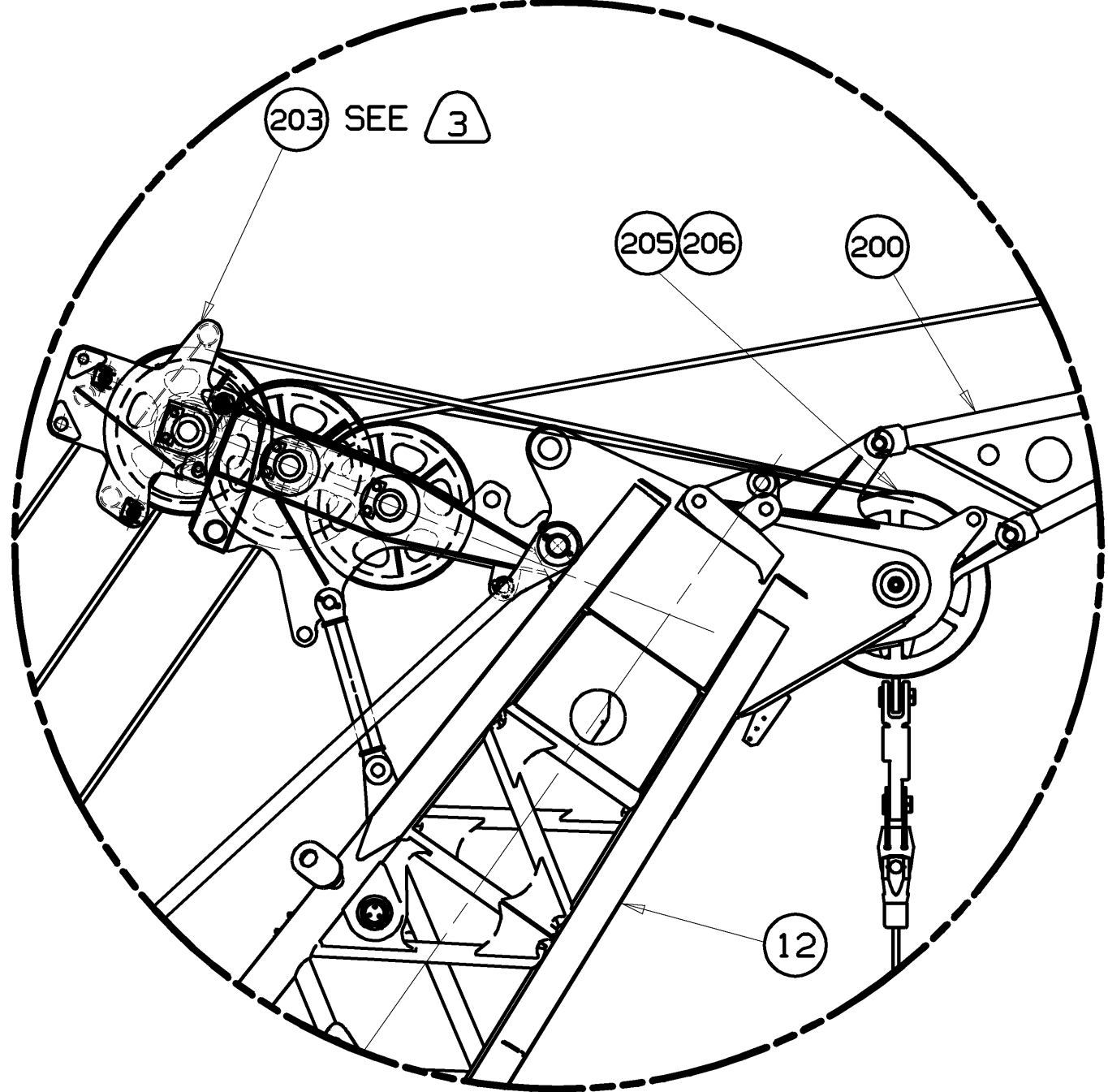


INSERTS ASSEMBLIES, STRAPS, PINS REQ'D. FOR VARIOUS BOOM LENGTHS																
ITEM NO.	100	101	102	103	104	106	107	108	109	110	111	112	113	114	115	TABLE 1
BOOM LENGTH METERS	3.00M INSERT ASSEMBLY MOD	6.00M INSERT ASSEMBLY MOD	6.00M INSERT W/BACKSTAY ASSEMBLY MOD	12.00M INSERT ASSEMBLY MOD	12.00M INSERT W/BACKSTAY ASSEMBLY MOD	SPLIT COTTER PIN 4-25/STEEL	PIN 1 HOLE W/HD 57 DIA X 73 LG	STRAP BOOM SUPPORT	COLLAR 58 ID X 25 LG	PIN 2 HOLE 13 DIA X 81 LG	LINK BOOM SUPPORT	STRAP BOOM SUPPORT	STRAP BOOM SUPPORT	PIN 1 HOLE W/HD 60 DIA X 134 LG	SAFETY PIN 4.88 X 127 LG	STRAP POSITION
24.5	1	0	0	0	0	32	12	2	14	14	4	0	0	2	2	A
27.5	OR 2	0	0	0	0	40	16	4	18	18	8	0	0	4	4	A
30.5	1	0	1	0	0	32	12	0	14	14	4	0	2	2	2	A
33.5	OR 2	0	1	0	0	40	16	4	18	18	8	0	2	4	4	A
36.5	OR 1	1	1	0	0	48	20	2	22	22	12	0	4	6	6	A
39.5	OR 0	0	1	0	1	40	16	0	18	18	8	2	2	4	4	A
42.5	1	0	1	0	1	48	20	2	22	22	12	2	2	6	6	A
45.5	OR 2	0	1	0	1	56	24	4	26	26	16	2	2	8	8	A
48.5	OR 0	1	1	0	1	48	20	0	22	22	12	2	4	6	6	A
51.5	OR 0	0	0	1	1	40	16	0	18	18	8	4	0	4	4	A
54.5	OR 1	1	1	0	1	56	24	2	26	26	16	2	4	8	8	A
57.5	OR 0	0	1	1	1	64	28	4	30	30	20	4	2	10	10	B
60.5	OR 0	0	0	2	1	56	24	0	22	22	12	6	0	6	6	B
63.5	OR 1	1	1	1	1	64	28	2	30	30	20	4	4	10	10	B
66.5	OR 0	0	1	2	1	64	28	4	30	30	20	6	0	10	10	B
69.5	OR 2	0	1	2	1	72	32	4	34	34	24	6	2	12	12	B
72.5	OR 0	1	1	3	1	64	28	0	30	30	20	6	4	10	10	B
75.5	OR 0	0	0	3	1	56	24	0	26	26	16	8	0	8	8	B
78.5	OR 1	1	1	2	1	72	32	2	34	34	24	6	4	12	12	B
81.5	OR 0	0	1	3	1	64	28	4	30	30	20	8	0	10	10	B
84.5	OR 0	1	1	3	1	72	32	0	34	34	24	8	4	12	12	B
87.5	OR 1	1	1	4	1	80	36	2	38	38	28	8	4	14	14	B
90.5	OR 0	0	0	4	1	72	32	2	34	34	24	10	0	12	12	B
93.5	OR 2	0	1	4	1	80	36	4	38	38	28	10	0	14	14	B

BOOM SECTION WELDMENT (THIS NUMBER APPEARS ON NAMEPLATE)	
BOOM SECTION ASSEMBLY	BOOM ONLY
3.00M INSERT A07855	A07856
6.00M INSERT 81001896(A)	81001554
6.00M INSERT 81001897(B)	81001555
12.00M INSERT 81001898(A)	81001556
12.00M INSERT 81001899(B)	81001855
12.25M TOP 81001985	81001984
(A) WITHOUT JIB BACKSTAY LUGS	
(B) WITH JIB BACKSTAY LUGS	



42.5M BOOM



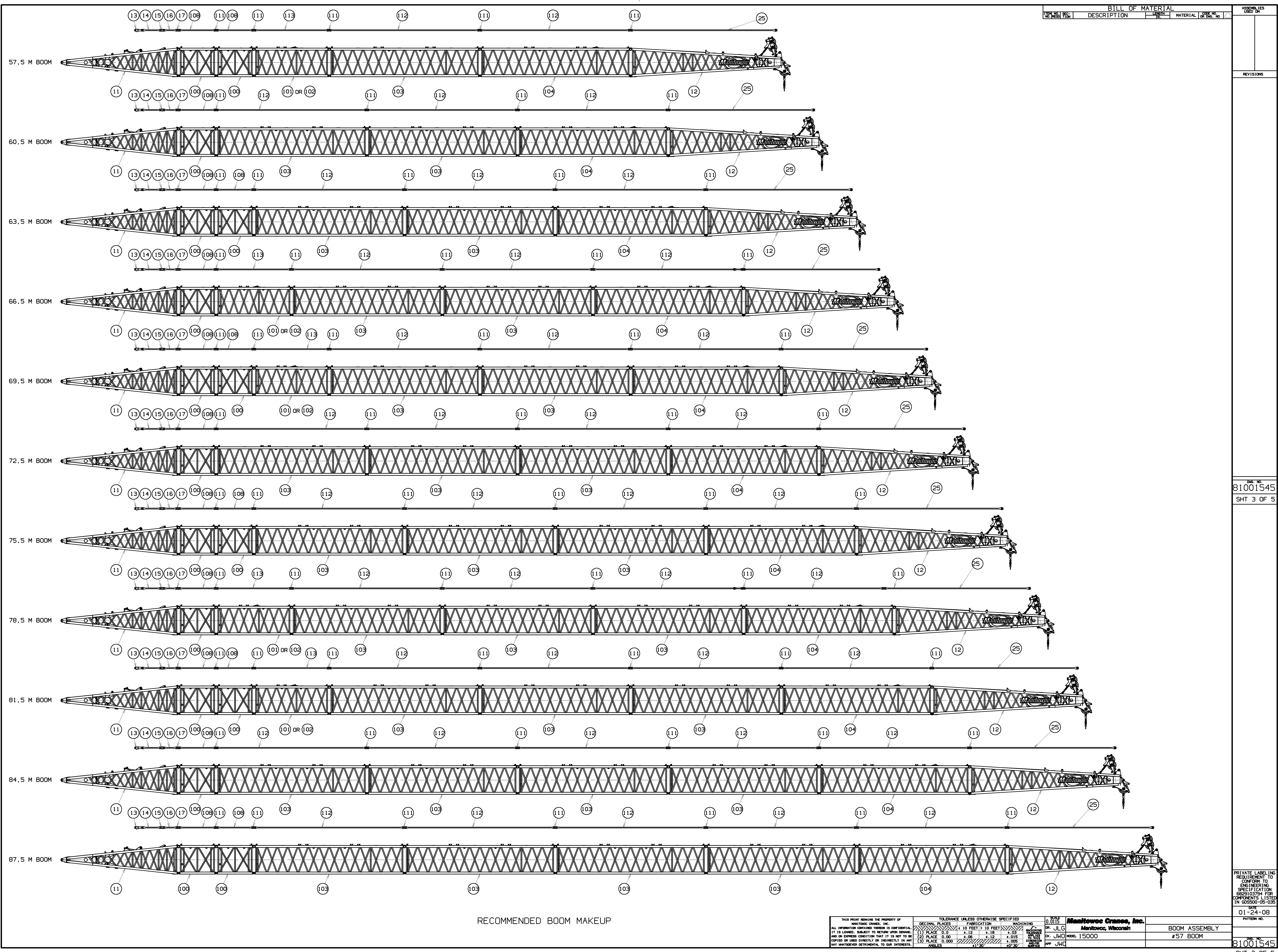
DETAIL "A"
SCALE: 0.04

BILL OF MATERIAL				ASSEMBLIES USED ON	
ITEM NO.	QTY.	DESCRIPTION	LENGTH IN.	MATERIAL	CODE OR CTRY. NO.
BOOM RIGGING ASSEMBLY					
1					
2					
3					
4					
5	1	MAST ASSEMBLY		196381	10
6					
7					
8	1	GANTRY ASSEMBLY		195845	
9					
10					
11	1	BUTT 9.25M ASSY #57 BOOM		A07851	
12	1	BOOM 12.25M TOP ASSY MOD #57 BOOM		81001985	
13	4	LINK		A09579	
14	2	STRAP		A09580	
15	4	LINK		A09578	
16	2	STRAP		A09581	
17	4	LINK		A09582	
18	2	PIN / HOLE W/HD 2.75 DIA X 3.36 LG		196066	
19	2	COLLAR 3.75 OD X 2.50 ID TUBE		196067	
20	2	PIN 2 HOLE .50 DIA X 4.03 LG.		196068	
21	2	PIN / HOLE W/HD 57 DIA X 80 LG		A10077	
22	6	PIN 2 HOLE .75 DIA X 3.35 LG		196392	
23	6	SPLIT COTTER PIN 6.3-40/STEEL	7690151500		
24	6	PIN COTTER 6 X 42 MM		A10097	
25	2	STRAP BOOM SUPPORT BASIC		A08100	

NO. REQ'D. FOR THE FOLLOWING ITEMS ARE IN TABLE			
100	1	INSERT 3.00M ASSY #57 BOOM	A07855
101	1	INSERT 6.00M ASSY MOD #57 BOOM	81001896
102	1	INSERT 6.00M ASSY MOD #57 BOOM W/BACKSTAY	81001897
103	1	INSERT 12.00M ASSY MOD #57 BOOM	81001898
104	1	INSERT 12.00M ASSY MOD #57 BOOM W/BACKSTAY	81001899
105			
106		SPLIT COTTER PIN 4-25/STEEL	7691111200
107		PIN / HOLE W/HD 57 DIA X 73 LG	A08088
108		STRAP BOOM SUPPORT	A08273
109		COLLAR 58 ID X 25 LG	A09213
110		PIN 2 HOLE 13 DIA X 81 LG	A09560
111		LINK BOOM SUPPORT	A08090
112		STRAP BOOM SUPPORT	A08094
113		STRAP BOOM SUPPORT	A08092
114		PIN / HOLE W/HD 60 DIA X 134 LG	A10166
115		SAFETY PIN 4.88 OD X 127 LG	A09535
116			
117			
118			
119			
120			

OPTIONAL ASSEMBLY LIST			
200	1	BOOM POINT UPPER ASSEMBLY	A08493
201	1	DRUM SHAFT ASSEMBLY, AUXILIARY	A08116
202	1	GUIDE WIRE ROPE ASSEMBLY	A09490
203	1	GUIDE WIRE ROPE ASSEMBLY	A09575
204	1	BOOM ASSY LADDER STORAGE	A09680
205	1	WIRE ROPE GUIDE SUPPORT ASSEMBLY	179663
206	1	MOD. TO ADD WIRE ROPE GUARD	194164
207	1	SUPPORT ASSEMBLY	A09736
208	1	TAGLINE ASSY #57 BOOM	A19154

- SEE TABLE FOR NO. REQ'D.
- JIB CANNOT BE USED WITH THIS ASSEMBLY.
- WHEN AUXILIARY DRUM SHAFT ASSEMBLY (ITEM 201) IS USED, THE BOOM BUTT ASSEMBLY (ITEM 11) WIRE ROPE GUIDE ASSEMBLIES (ITEMS 202 AND 203) ARE REQUIRED. THE 3.00M INSERT ASSEMBLY (ITEM 100) MUST BE ADJACENT TO THE BOOM BUTT AT ALL TIMES. MINIMUM BOOM LENGTH USING THESE COMPONENTS IS 24.5M.
- MAXIMUM NO. OF 3.00 M INSERT ASSEMBLIES = 2.
- MAXIMUM NO. OF 6.00 M INSERT ASSEMBLIES = 2.
- COMBINATION OF 3.00 M AND 6.00 M INSERT ASSEMBLIES CANNOT EXCEED 2 - 3.00 M PLUS 1 - 6.00 M OR 1 - 3.00 M PLUS 2 - 6.00 M.
- SEE 1, 4 AND 6.
- SEE 1, 5 AND 6.
- STARTING WITH BOOM BUTT ASSEMBLY, INSERT ASSEMBLIES MUST BE INSTALLED IN ASCENDING LENGTH.
- STRAPS ATTACHED TO MAST TOP LINKS ARE CALLED FOR ON BOOM BUTT ASSEMBLY (ITEM 11).
- REQ'D FOR CLAM. UPPER BOOM POINT CANNOT BE USED WITH THIS ASSEMBLY.
- 12.00M INSERT ASSEMBLY WITH BACKSTAY LUG (ITEM 104) MAY BE USED IN PLACE OF 12.00M INSERT ASSEMBLY (ITEM 103).
- ALL JIB BACKSTAY STRAPS, LINKS AND PINS STOWED WITH INSERTS AND BOOM TOP MUST BE REMOVED FOR USE WITH THIS ASSEMBLY.



BILL OF MATERIAL

ITEM NO. 81001545 DESCRIPTION MATERIAL QTY

ASSEMBLIES USED ON

REVISIONS

ENG. NO.

81001545

SHT 3 OF 5

PRIVATE LABELING

REQUIREMENT TO

CONFORM TO

ENGINEERING

SPECIFICATION

6829103794 FOR

COMPONENTS LISTED

IN SECTION 05-055

DATE

01-24-08

PATTERN NO.

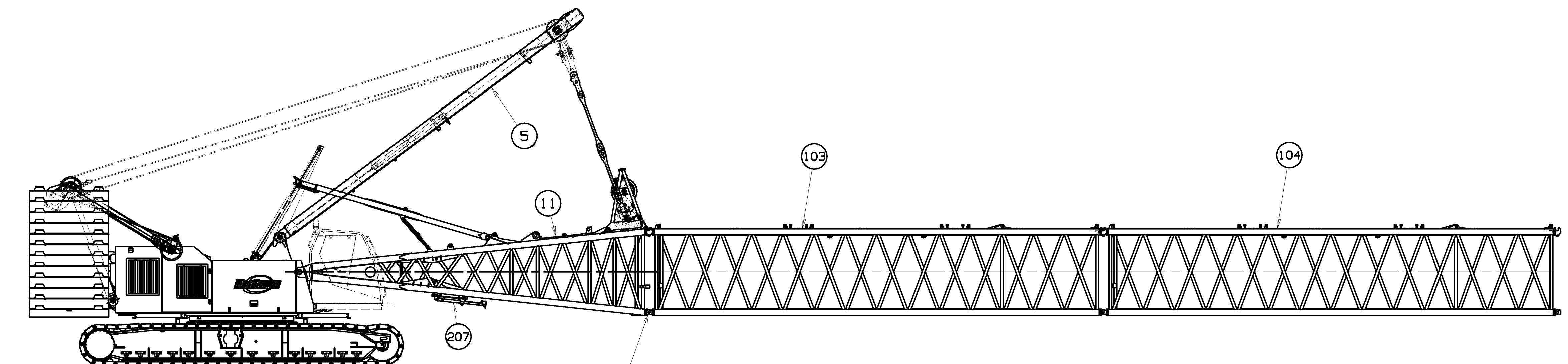
81001545

SHT 3 OF 5

RECOMMENDED BOOM MAKEUP

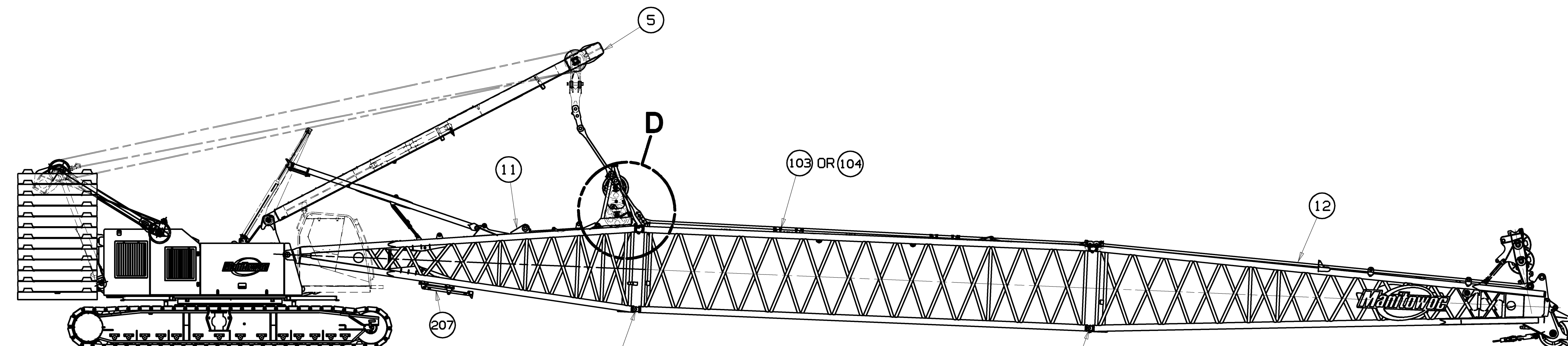
THIS PRINT REMAINS THE PROPERTY OF MANITOWOC CRANES, INC. ALL INFORMATION CONTAINED THEREIN IS CONFIDENTIAL. IT IS LOANED, SUBJECT TO RETURN UPON DEMAND, AND ON EXPRESS CONDITION THAT IT IS NOT TO BE COPIED OR USED DIRECTLY OR INDIRECTLY IN ANY MANNER DETRIMENTAL TO OUR INTERESTS.		TOLERANCE UNLESS OTHERWISE SPECIFIED DECIMAL PLACES (1) FINE 0.0 (2) PLACE 0.00 (3) PLACE 0.000 ANGLES FABRICATION ± 10 FEET ± 10 FEET ± .12 ± .18 ± .06 ± .12 ± .015 ± .025 ± .005 ± .010 ± .01 ± .02		DR. JLG CK. JWO APP. JWO	MANITOWOC CRANES, INC. Manitowoc, Wisconsin MODEL 15000	BOOM ASSEMBLY #57 BOOM
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DO NOT SCALE THIS DRAWING

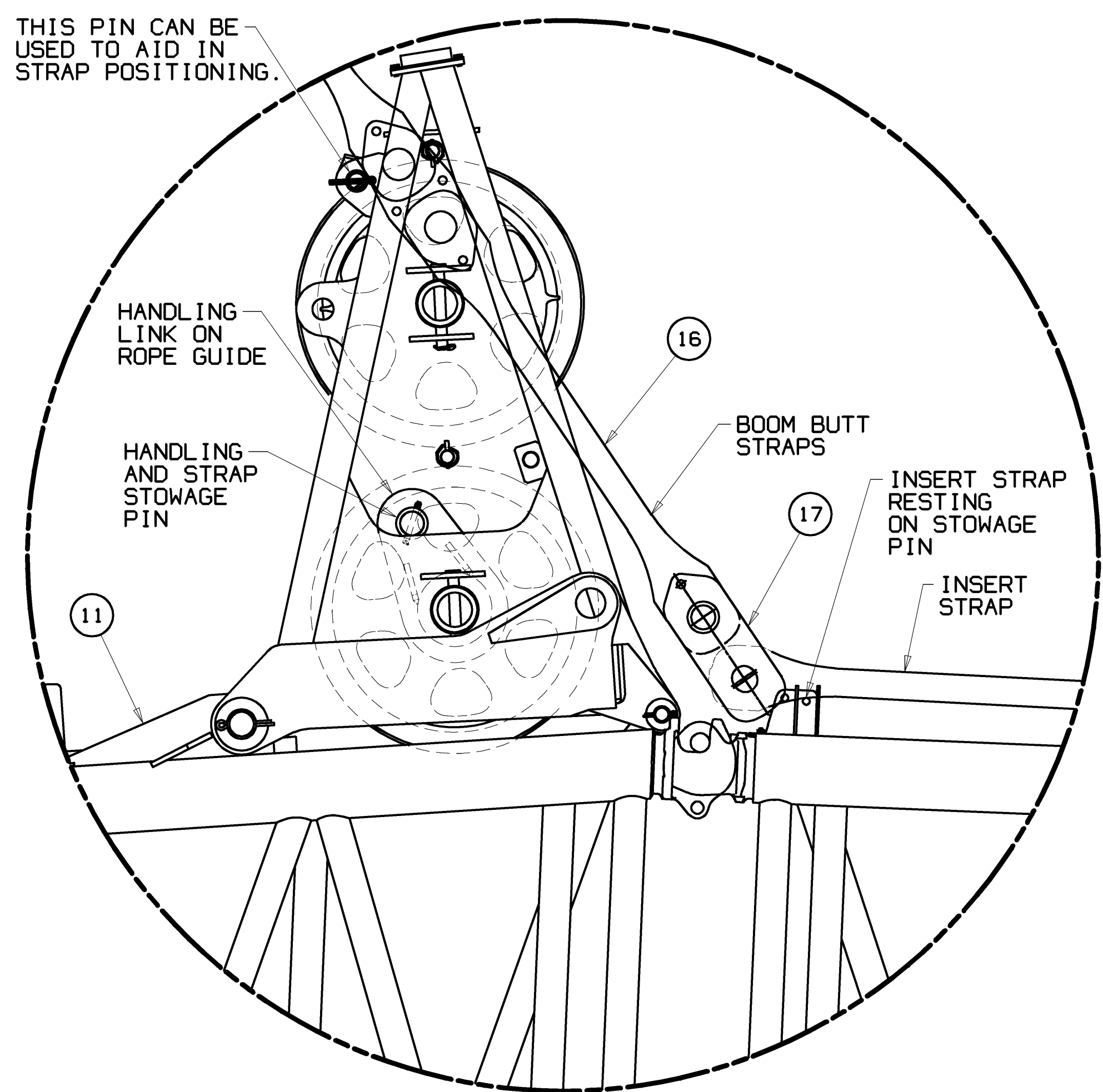


BOOM HANDLING WITH MAST

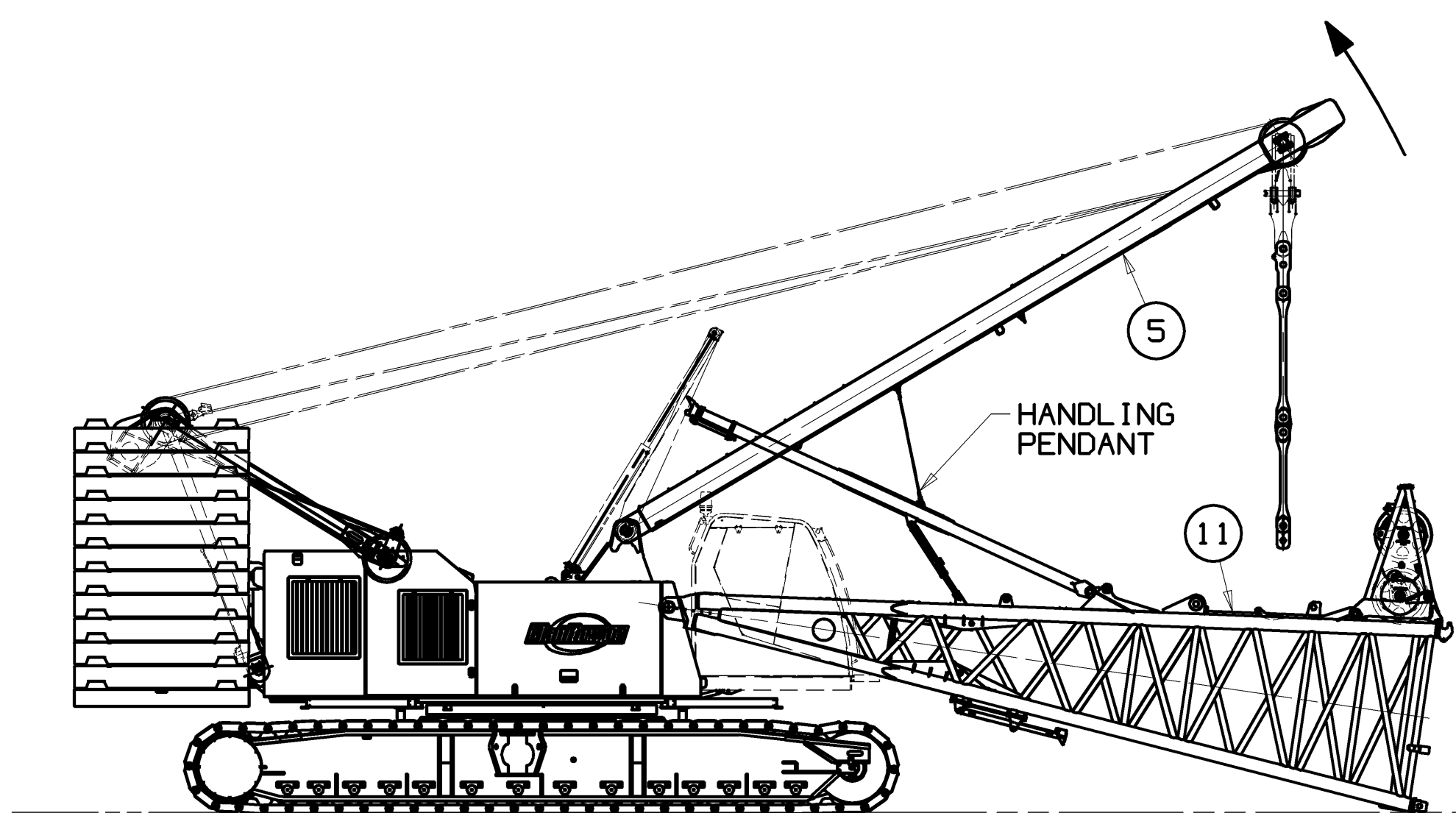
BOOM HANDLING WITH MAST WITH MAST STRAPS PINNED TO ROPE GUIDE LINKS: MAXIMUM BOOM THAT CAN BE CANTILEVERED IS AS FOLLOWS:			
LENGTH	(3.00 M) INSERT	(6.00 M) INSERT	(12.00 M) INSERT
12.2 M	2	1	0
15.2 M	1	2	0
18.3 M	2	0	1
18.3 M	0	1	1
21.3 M	1	1	1
24.4 M	0	0	2



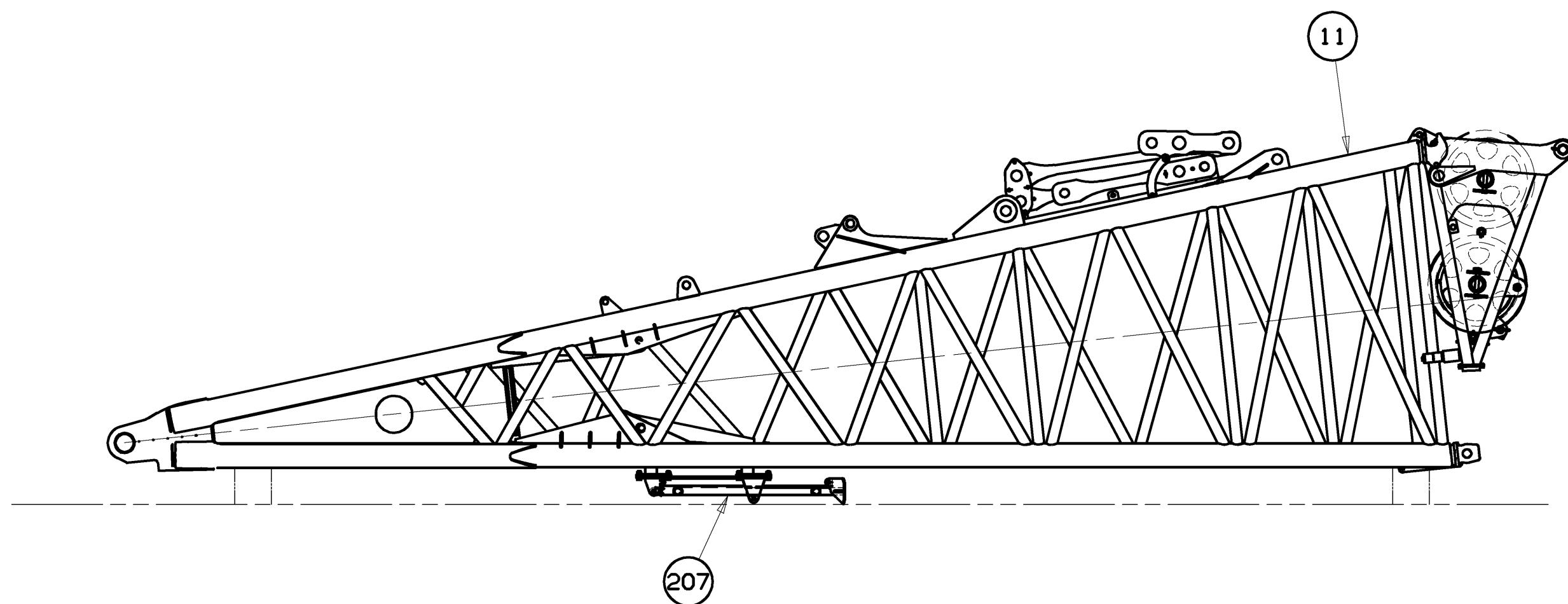
ATTACH OR DISCONNECT
BOOM BUTT STRAPS
FROM INSERT STRAPS



DETAIL "D"
SCALE: 0.1



RAISING BOOM STOPS WITH MAST



BOOM BUTT SHIPPING ARRANGEMENT
SCALE 0.015