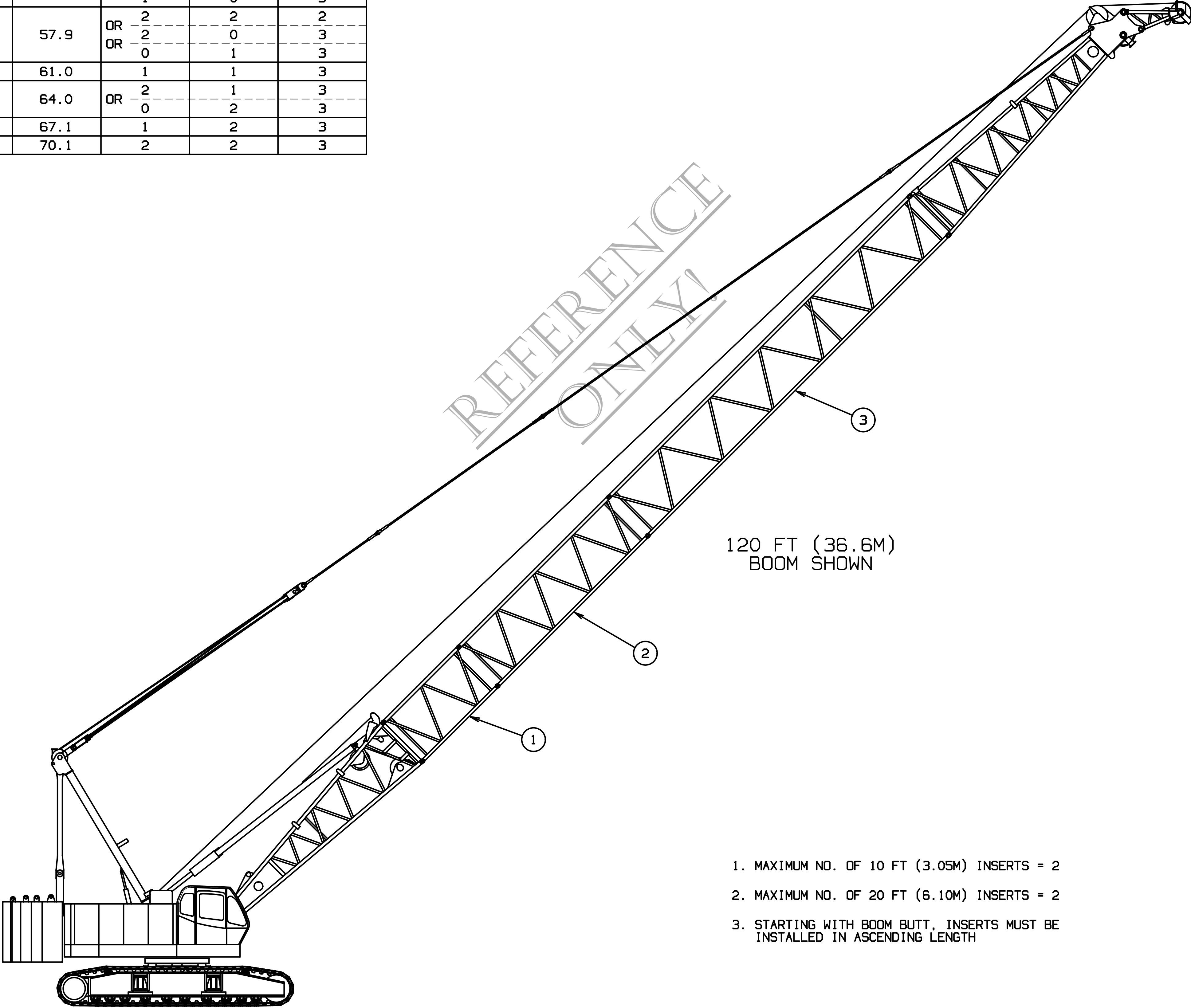


INSERTS ASSEMBLIES REQ'D. FOR VARIOUS BOOM LENGTHS				
ITEM NO.		1	2	3
BOOM LENGTH		10 FT 3.05 M INSERT ASSEMBLY	20 FT 6.10 M INSERT ASSEMBLY	40 FT 12.19 M INSERT ASSEMBLY
FEET	METERS			
50	15.2	0	0	0
60	18.3	1	0	0
70	21.3	OR 2 0	0 1	0 0
80	24.4	1	1	0
90	27.4	OR 2 OR 0 OR 0	1 2 0	0 0 1
100	30.5	OR 1 1	2 0	0 1
110	33.5	OR 2 OR 2 OR 0	2 0 1	0 1 1
120	36.6	1	1	1
130	39.6	OR 2 OR 0 OR 0	1 2 0	1 1 2
140	42.7	OR 1 1	2 0	1 2
150	45.7	OR 2 OR 2 OR 0	2 0 1	1 2 2
160	48.8	1	1	2
170	51.8	OR 2 OR 0 OR 0	1 2 0	2 2 3
180	54.9	OR 1 1	2 0	2 3
190	57.9	OR 2 OR 2 OR 0	2 0 1	2 3 3
200	61.0	1	1	3
210	64.0	OR 2 0	1 2	3 3
220	67.1	1	2	3
230	70.1	2	2	3



120 FT (36.6M)
BOOM SHOWN

- 1. MAXIMUM NO. OF 10 FT (3.05M) INSERTS = 2
- 2. MAXIMUM NO. OF 20 FT (6.10M) INSERTS = 2
- 3. STARTING WITH BOOM BUTT, INSERTS MUST BE INSTALLED IN ASCENDING LENGTH

DATE 03-11-10	SCALE NONE	Manitowoc Cranes, Inc. Manitowoc, Wisconsin	12000 BOOM RIGGING ASSEMBLY	REVISION
DRAWING NO.	DR:RAH			
	CK:JLD			
	APP:JLD	MODEL 12000		

12000 RIG BOOM