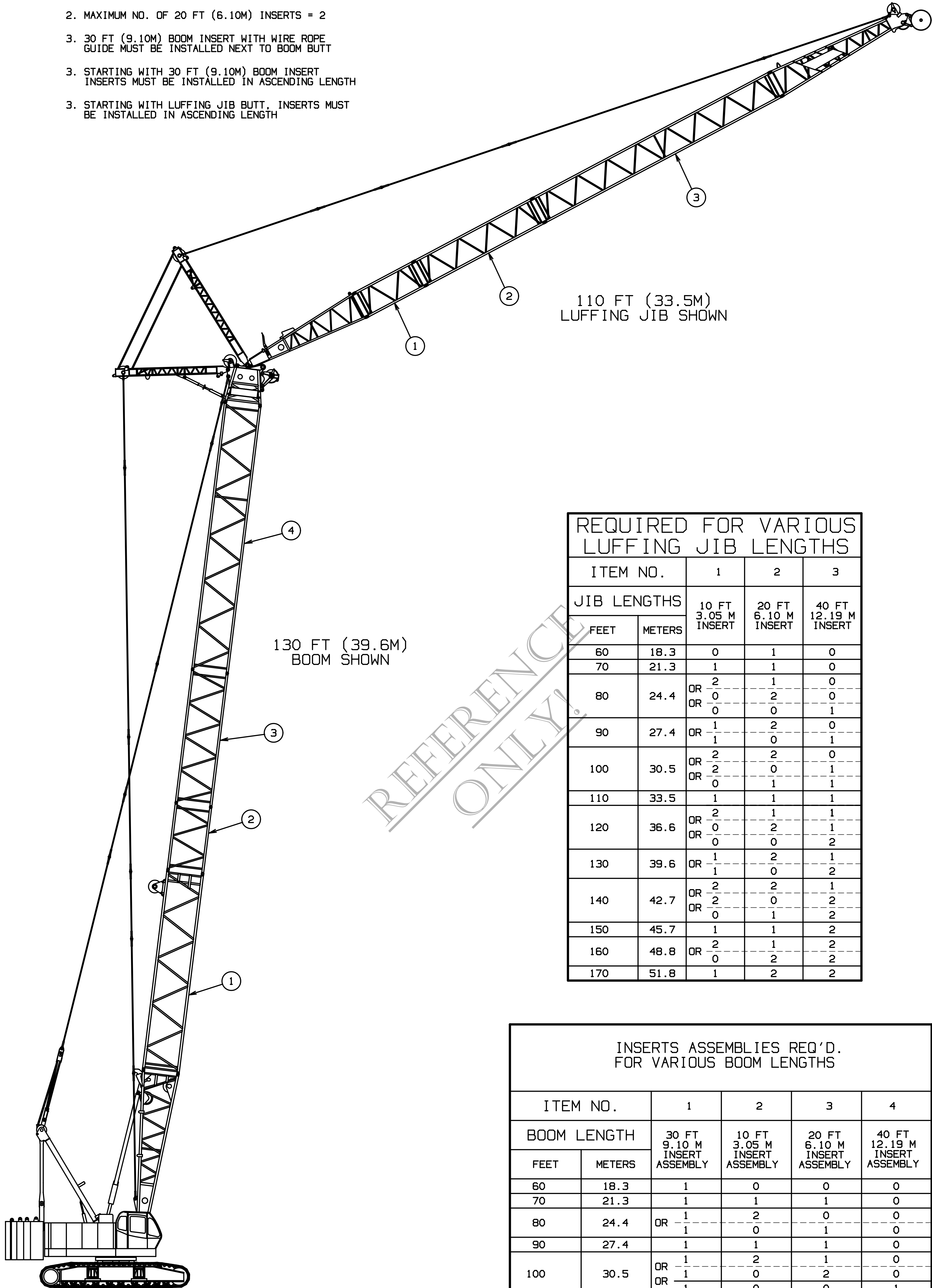


1. MAXIMUM NO. OF 10 FT (3.05M) INSERTS = 2
2. MAXIMUM NO. OF 20 FT (6.10M) INSERTS = 2
3. 30 FT (9.10M) BOOM INSERT WITH WIRE ROPE GUIDE MUST BE INSTALLED NEXT TO BOOM BUTT
3. STARTING WITH 30 FT (9.10M) BOOM INSERT
INSERTS MUST BE INSTALLED IN ASCENDING LENGTH
3. STARTING WITH LUFFING JIB BUTT, INSERTS MUST
BE INSTALLED IN ASCENDING LENGTH



REQUIRED FOR VARIOUS LUFFING JIB LENGTHS				
ITEM NO.		1	2	3
JIB LENGTHS		10 FT 3.05 M INSERT	20 FT 6.10 M INSERT	40 FT 12.19 M INSERT
FEET	METERS			
60	18.3	0	1	0
70	21.3	1	1	0
80	24.4	2	1	0
		OR 0	2	0
		OR 0	0	1
90	27.4	1	2	0
		OR 1	0	1
100	30.5	2	2	0
		OR 2	0	1
		OR 0	1	1
110	33.5	1	1	1
120	36.6	2	1	1
		OR 0	2	1
		OR 0	0	2
130	39.6	1	2	1
		OR 1	0	2
140	42.7	2	2	1
		OR 2	0	2
		OR 0	1	2
150	45.7	1	1	2
160	48.8	2	1	2
		OR 0	2	2
170	51.8	1	2	2

INSERTS ASSEMBLIES REQ'D. FOR VARIOUS BOOM LENGTHS					
ITEM NO.		1	2	3	4
BOOM LENGTH		30 FT 9.10 M INSERT ASSEMBLY	10 FT 3.05 M INSERT ASSEMBLY	20 FT 6.10 M INSERT ASSEMBLY	40 FT 12.19 M INSERT ASSEMBLY
FEET	METERS				
60	18.3	1	0	0	0
70	21.3	1	1	1	0
80	24.4	OR 1	2	0	0
		1	0	1	0
90	27.4	1	1	1	0
100	30.5	1	2	1	0
		OR 1	0	2	0
		OR 1	0	0	1
110	33.5	1	1	2	0
		OR 1	1	0	1
120	36.6	1	2	2	0
		OR 1	2	0	1
		OR 1	0	1	1
130	39.6	1	1	1	1
140	42.7	1	2	1	1
		OR 1	0	2	1
		1	0	0	2
150	45.7	1	1	2	1
		OR 1	1	0	2

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

12000 RIG LUFFER