

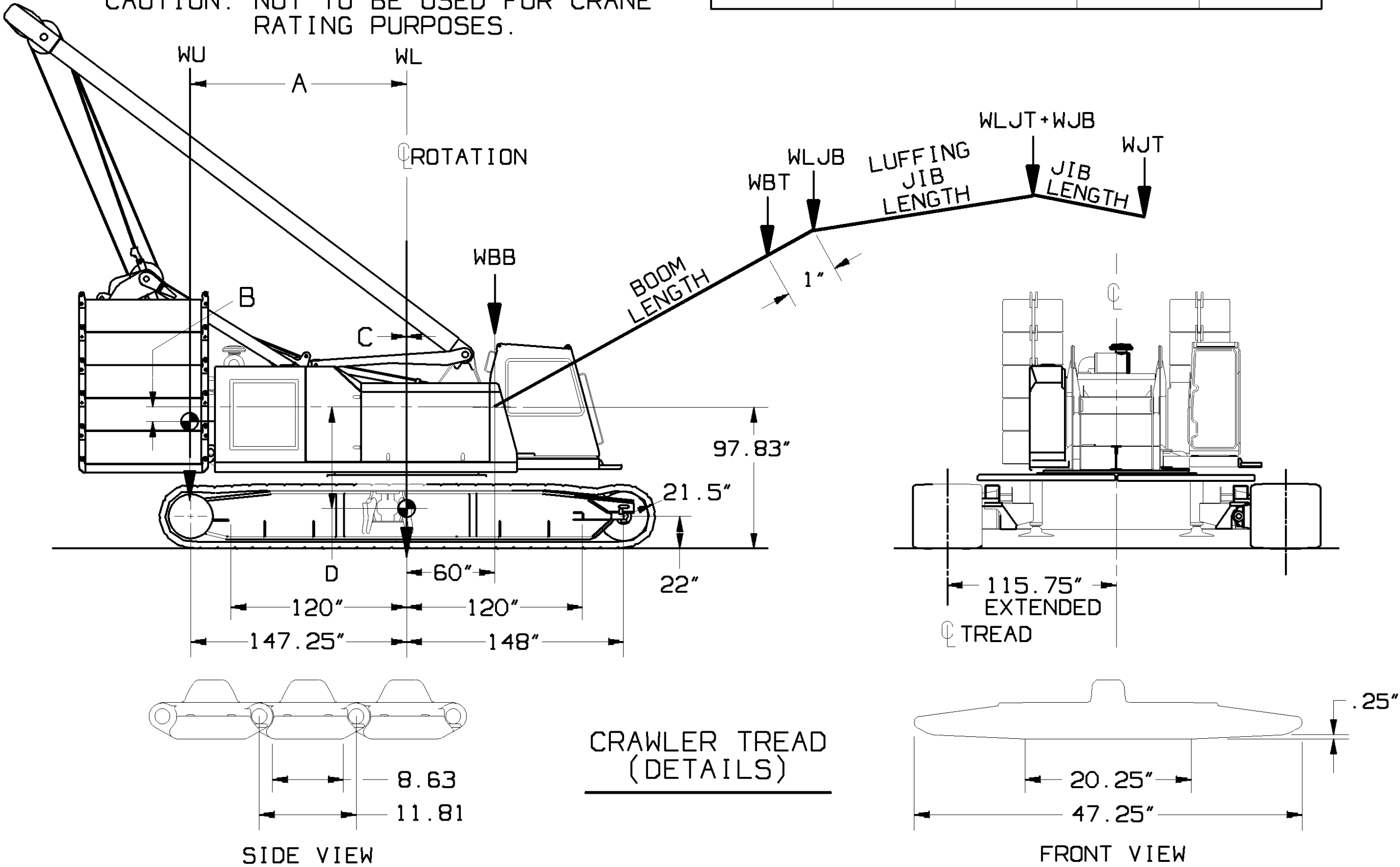
ROTATING UPPERWORKS WEIGHT AND CENTER OF GRAVITY (WU)			
EQUIPPED AS	WEIGHT (lbs)	DIM "A" (in.)	DIM "B" (in.)
999 SERIES 1 (114,600 lb. CTWT)	172,391	133.3	-16.6
999 SERIES 1 (149,600 lb. CTWT)	207,391	141.1	-10.8
999 SERIES 2 (184,600 lb. CTWT)	242,391	146.6	-3.4
999 SERIES 3 (219,600 lb. CTWT)	277,391	150.7	4.9
LOWERWORKS WEIGHT AND CENTER OF GRAVITY (WL)			
EQUIPPED AS	WEIGHT (lbs)	DIM "C" (in.)	DIM "D" (in.)
999 SERIES 1	106,713	0	73.9
999 SERIES 1 - WITH OPTIONAL CARBODY JACKS	109,599	0	73.7
999 SERIES 2	150,713	0	74.6
999 SERIES 2 - WITH OPTIONAL CARBODY JACKS	153,599	0	74.5
999 SERIES 3	186,713	0	71.8
999 SERIES 3 - WITH OPTIONAL CARBODY JACKS	189,599	0	71.7

NOTE 1: BOOM AND JIB WEIGHTS INCLUDE WEIGHT OF MAST, BOOM, JIB, PENDANTS ETC.; BUT DO NOT INCLUDE WEIGHT OF LOAD, LOAD BLOCK, WEIGHT BALL, SLINGS, ETC. ALL ITEMS SUSPENDED FROM BOOM OR JIB MUST BE CONSIDERED PART OF THE LOAD.

NOTE 2: WEIGHTS FOR 70 THRU 180 FT. BOOMS INCLUDE A 8 SHEAVE BOOM POINT, 190 FT BOOM INCLUDES A 2 SHEAVE BOOM POINT, AND 200 FT. BOOM REQUIRE THAT ALL BOOM POINT SHEAVES BE REMOVED.

NOTE 3: CONSULT PROPER CRANE CAPACITY CHART FOR LIFTING CAPACITIES AND ALLOWABLE BOOM AND JIB COMBINATIONS.

CAUTION: NOT TO BE USED FOR CRANE RATING PURPOSES.



#82 BOOM WEIGHTS					
LENGTH (ft.)	WBB (lbs)	WBT (lbs)	LENGTH (ft.)	WBB (lbs)	WBT (lbs)
80	23,860	21,594	170	33,908	26,799
90	25,655	22,354	180	34,409	27,354
100	26,533	22,533	190	36,025	28,294
110	28,159	23,463	200	36,476	28,899
120	28,861	23,817	210	37,479	29,561
130	30,056	24,318	220	37,919	30,178
140	30,720	24,710	230	39,536	31,116
150	32,316	25,669	240	39,941	31,767
160	32,847	26,194	250	40,912	32,462
JIB WEIGHTS					
BOOM LENGTH (ft.)	LUFFER #149		FIXED #134		
	WLJB (lbs)	WLJT (lbs)	WJB (lbs)	WJT (lbs)	
30			2,150	1,369	
40			2,436	1,611	
50			2,715	1,860	
60			2,991	2,114	
70	11,028	9,603	3,163	2,251	
80	11,933	10,090	3,447	2,496	
90	12,592	10,320			
100	13,305	10,939			
110	13,806	10,999			
120	14,526	11,610			
130	14,876	12,149			
140	15,614	12,803			
150	15,599	13,186			
160	16,372	13,804			
170	16,881	14,184			
180	17,651	14,805			
190	17,900	14,926			
200	18,681	15,535			
210	19,035	16,069			
220	19,820	16,676			
230	19,753	17,111			
240	20,559	17,698			

DATE	SCALE	MANITOWOC CRANES, INC. MANITOWOC, WISCONSIN	C G CHART
4-26-02	DR. JLD		48" TREADS
DWG. NO.	CK. JLD	MODEL 999	BOOM NO.82
T.S. 336	APP.		LUFFING JIB NO.149