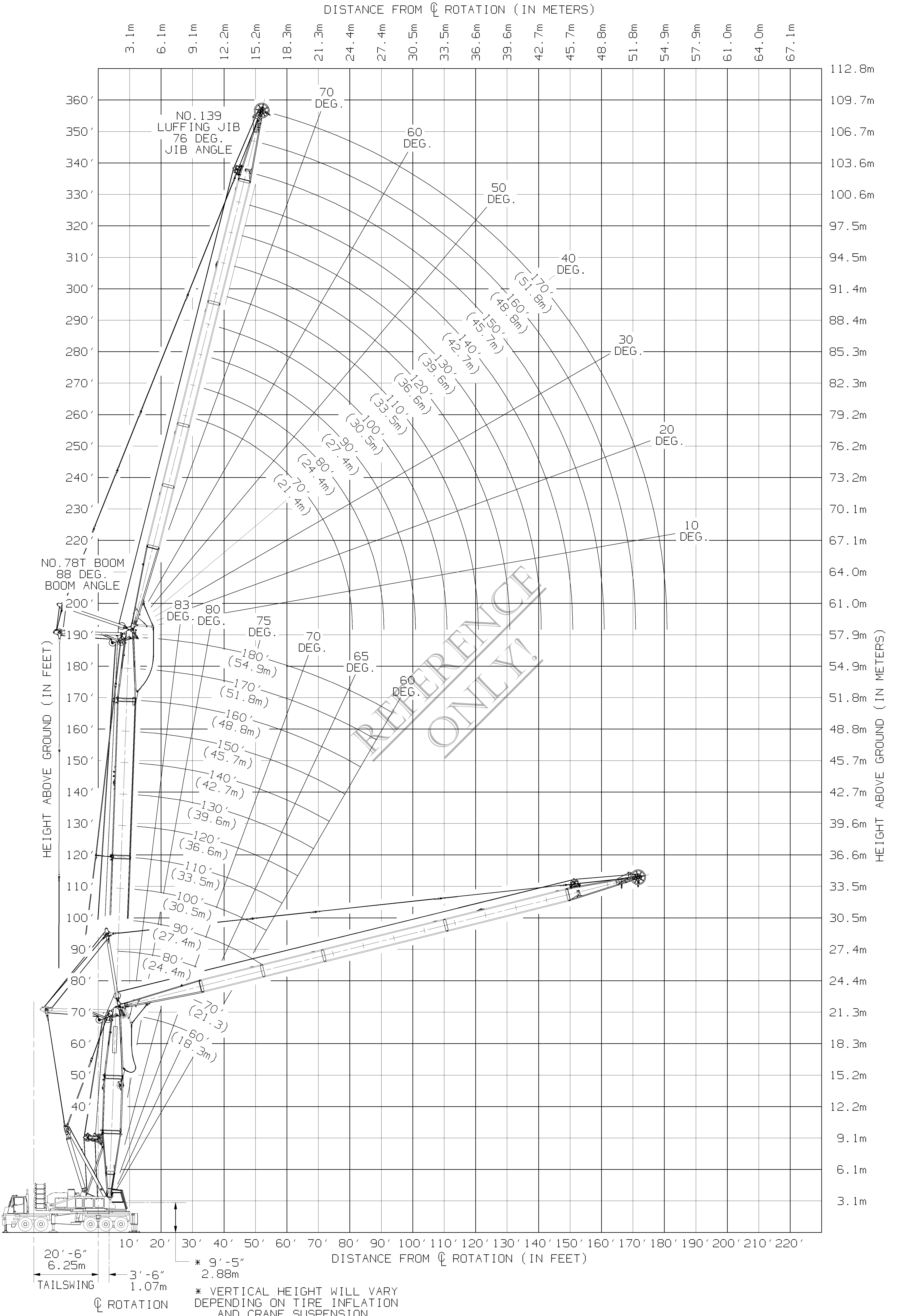
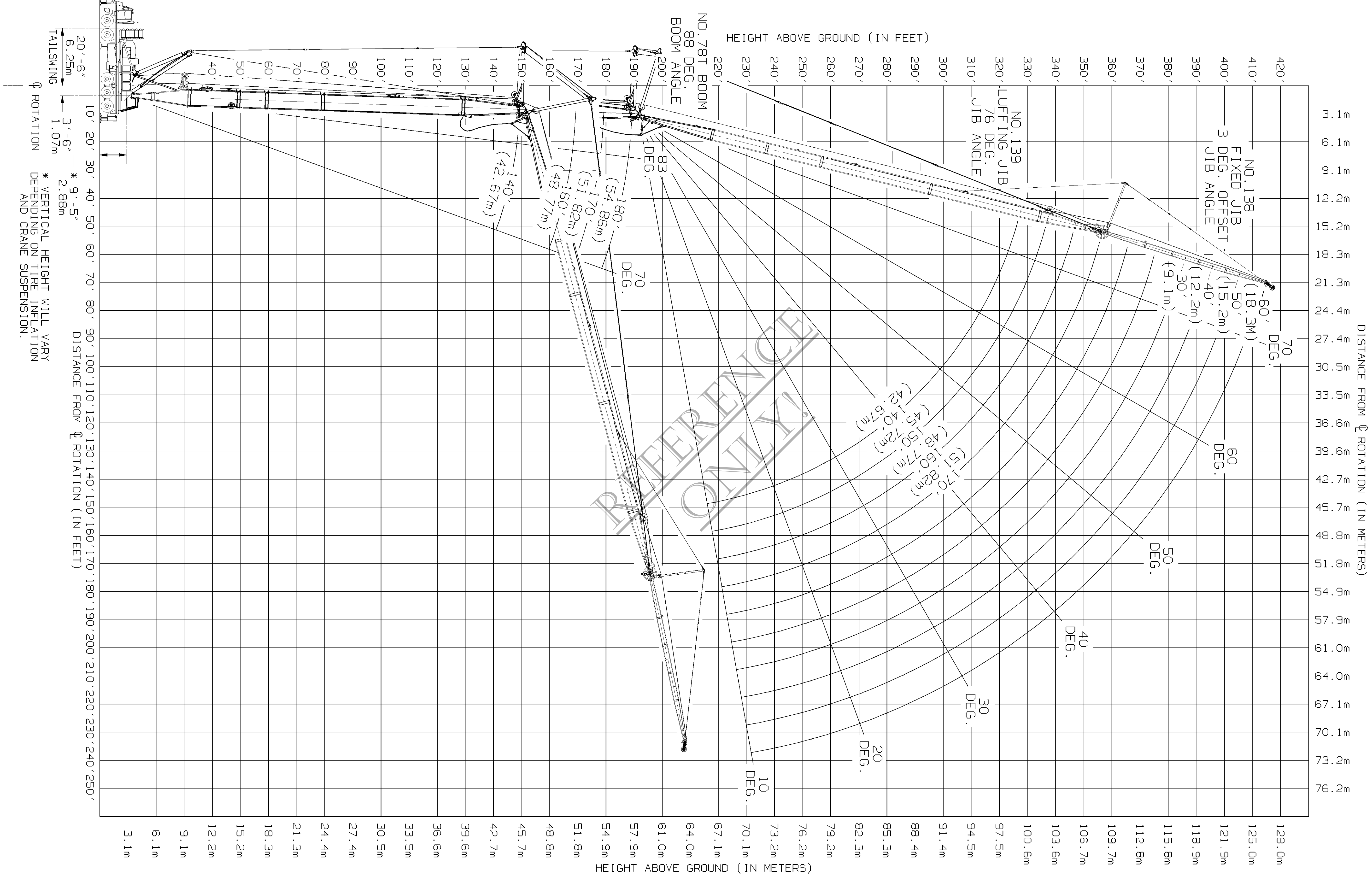


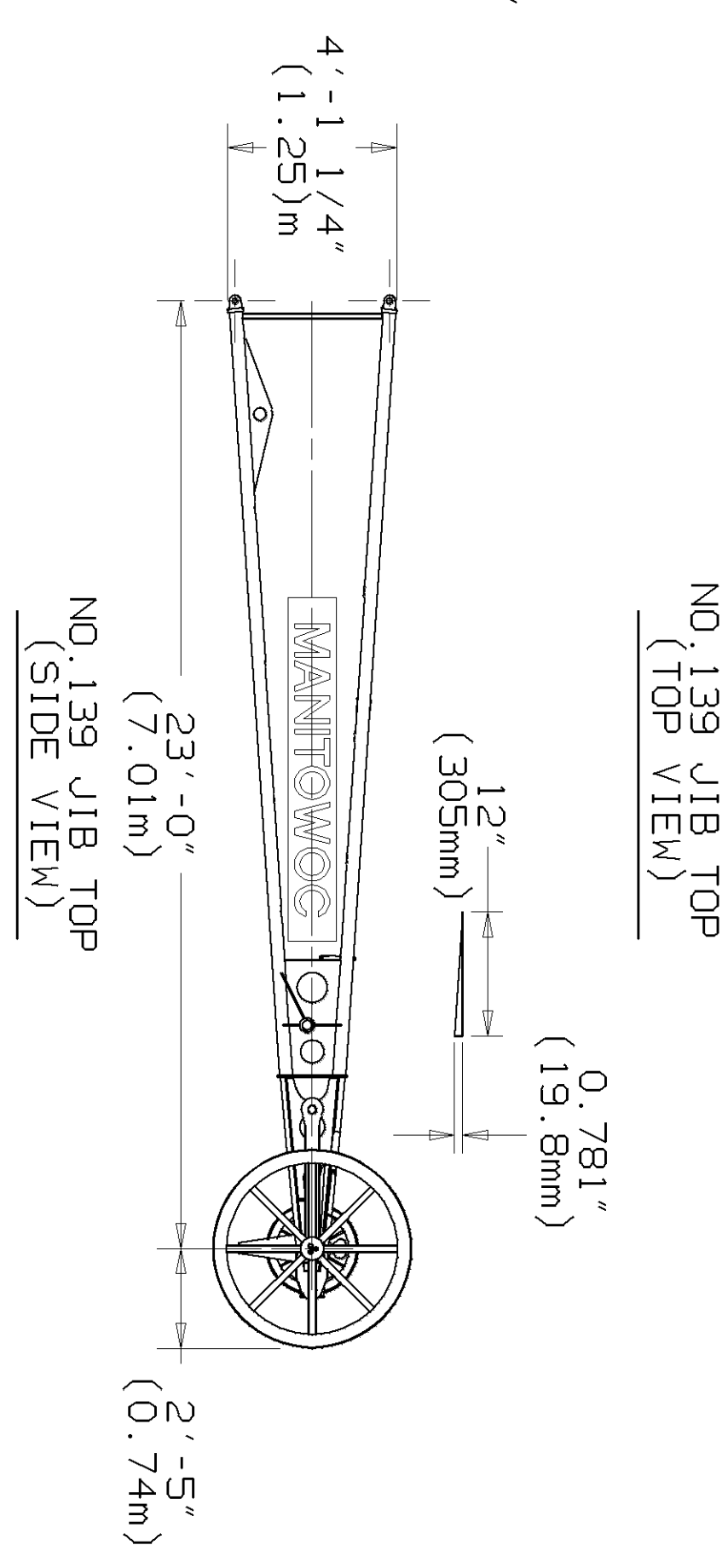
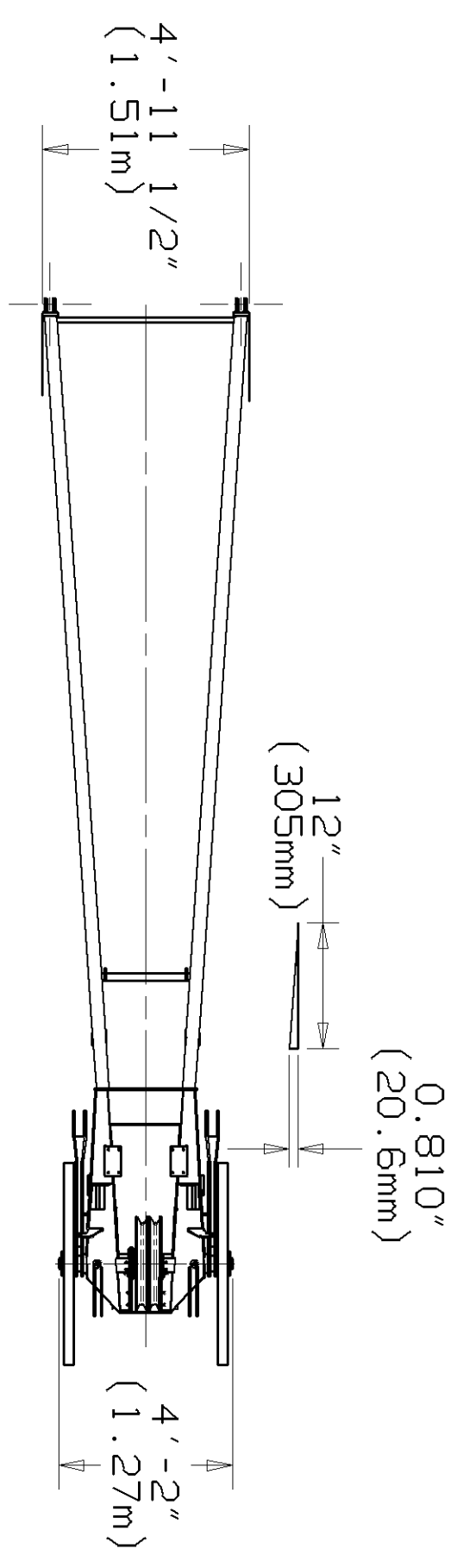
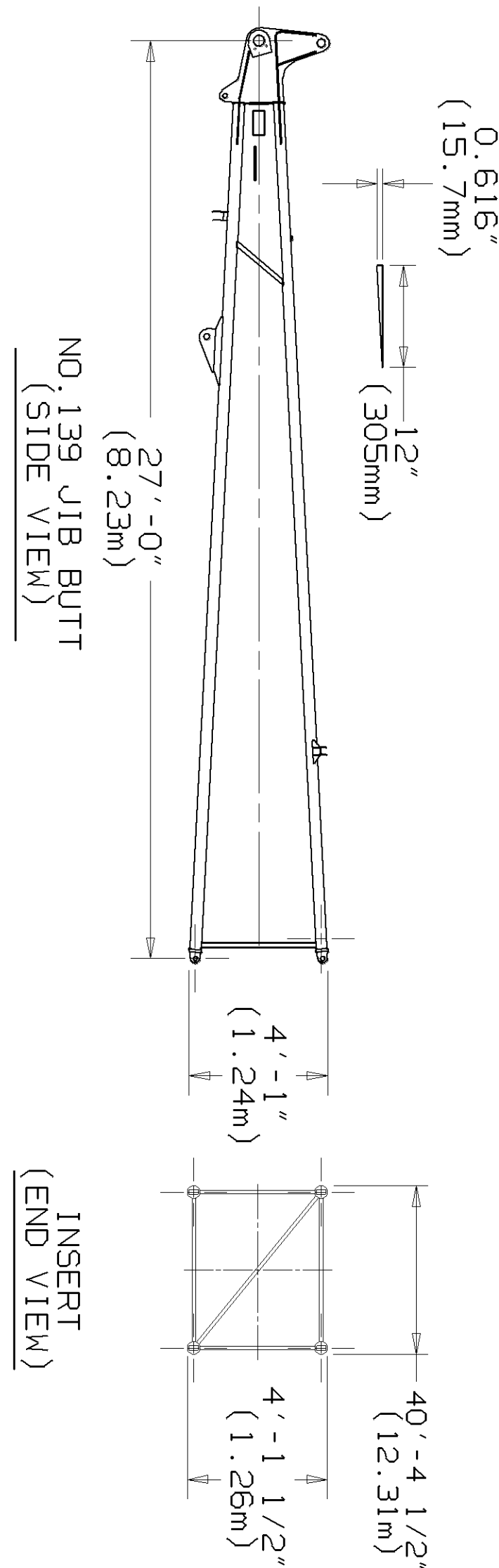
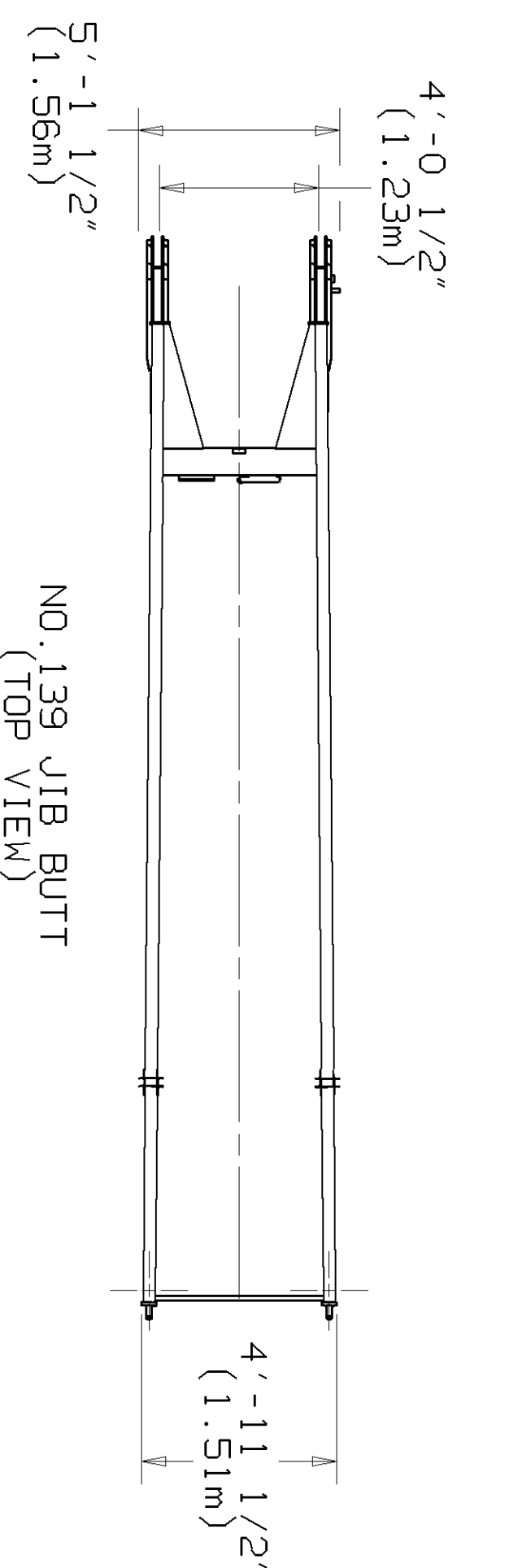


DATE	SCALE	Manitowoc Cranes, Inc. Manitowoc, Wisconsin	REVISION	
08-24-99	3/32"=1' DR-NVS		07-22-02 NVS	
DRAWING NO.	CK-TWB	MODEL 777T	A WAS SHT 1 OF 2	
194490	APP MB			
SHT. 1 OF 3				
			DIAGRAM - RANGE ASSEMBLY -	
			NO. 78T BOOM &	
			NO. 139 LUFFING JIB	



20'-6"
6.25m
3'-6"
1.07m
9'-5"
2.88m
DISTANCE FROM ϕ ROTATION (IN FEET)
DISTANCE FROM ϕ ROTATION (IN METERS)
* VERTICAL HEIGHT WILL VARY
DEPENDENT ON TIRE INFLATION
AND CRANE SUSPENSION.

DATE	SCALE	MANUFACTURER	REVISION
07-22-02	1/16"=1'	Manitowoc Cranes, Inc.	
DRAWING NO.	REVISED	Model	
194490	1	Manitowoc, Wisconsin	
APP MB	NO. 78T BOOM &	NO. 139 LUFFING JIB &	
	NO. 138 FIXED JIB		



NOTE 1: THIS DRAWING IS INTENDED ONLY AS A GUIDE TO ASSIST IN JOB PLANNING.

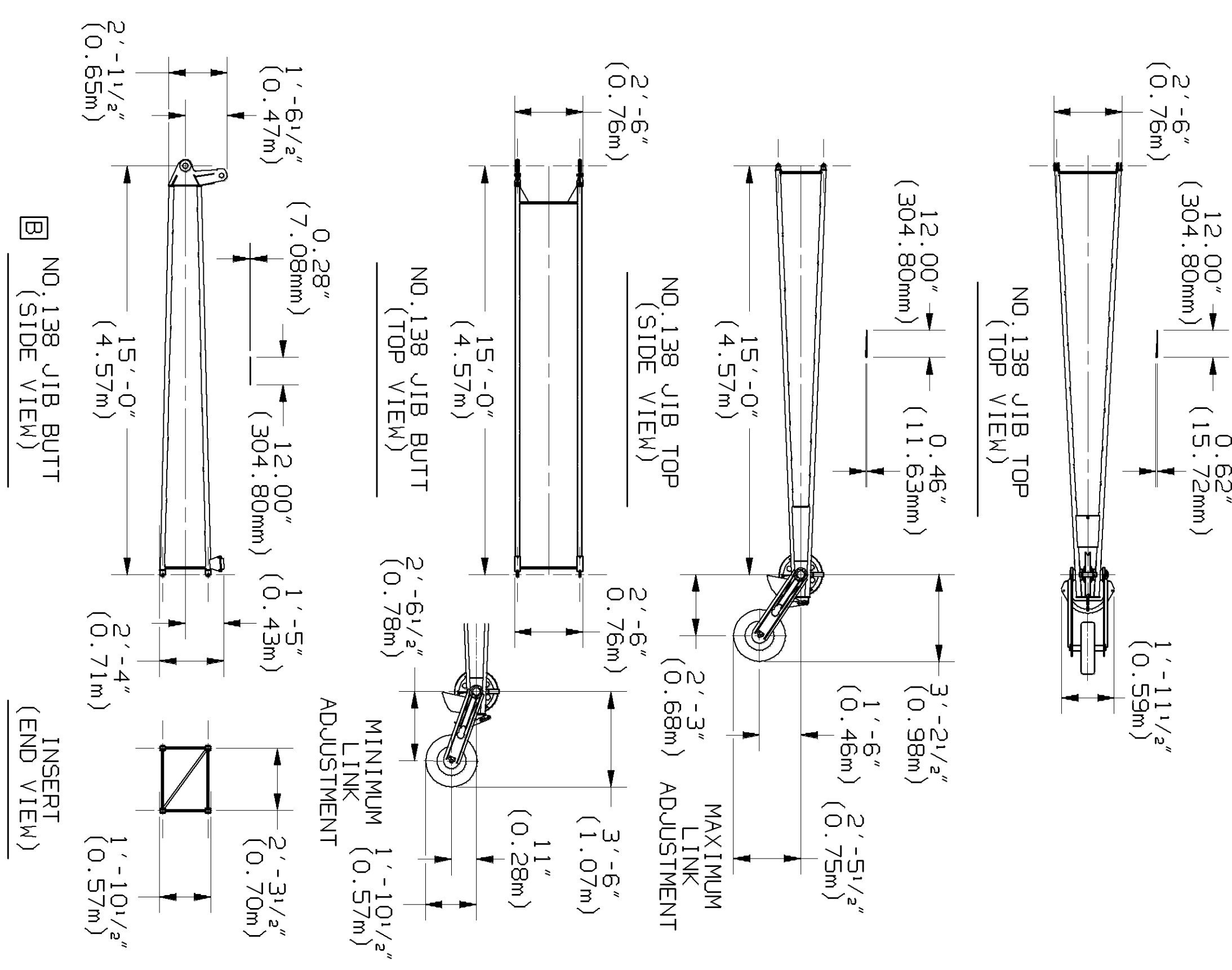
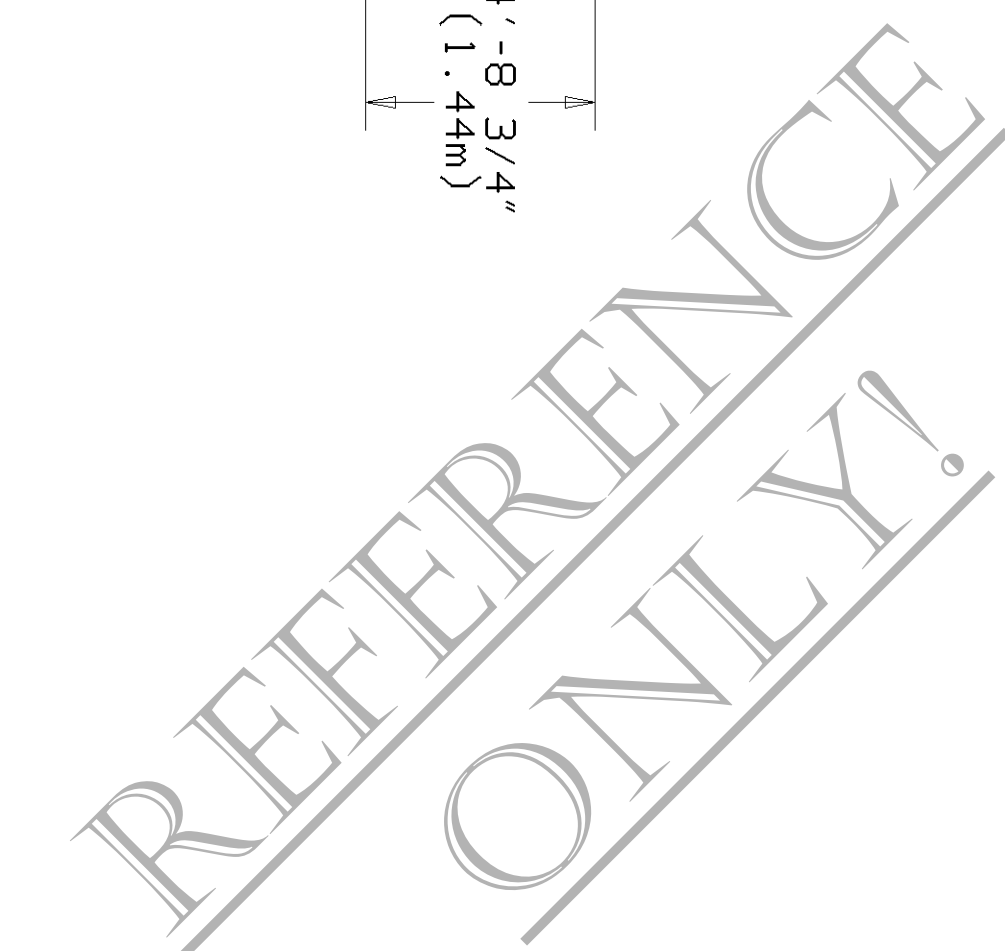
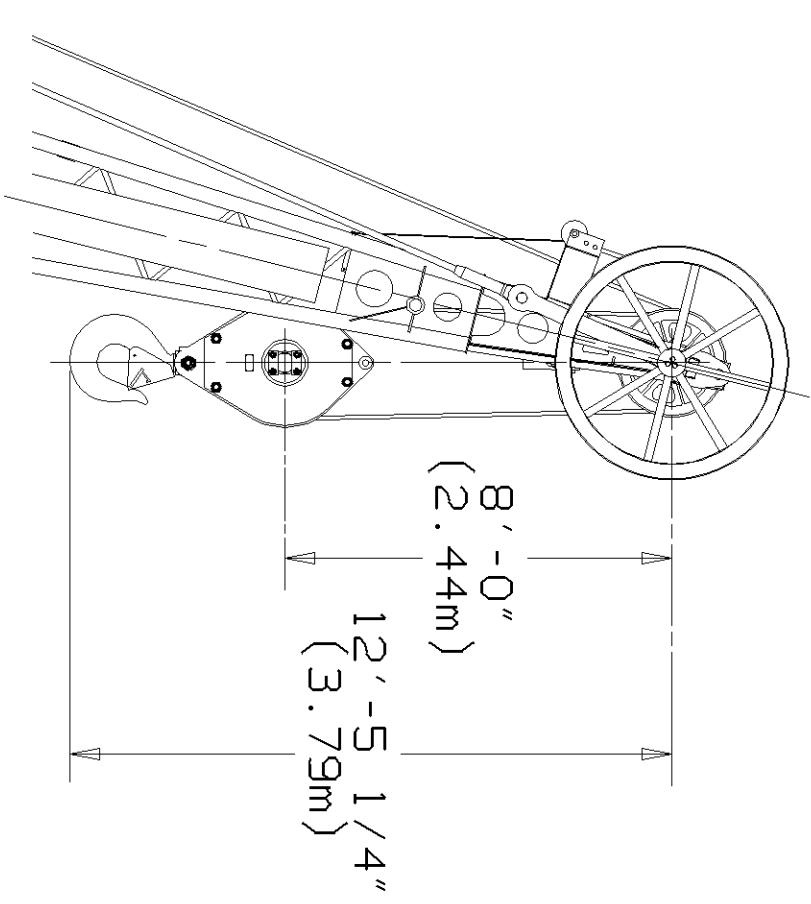
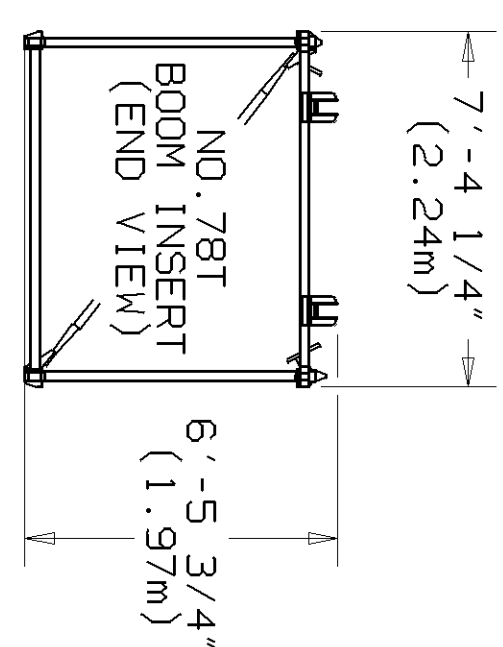
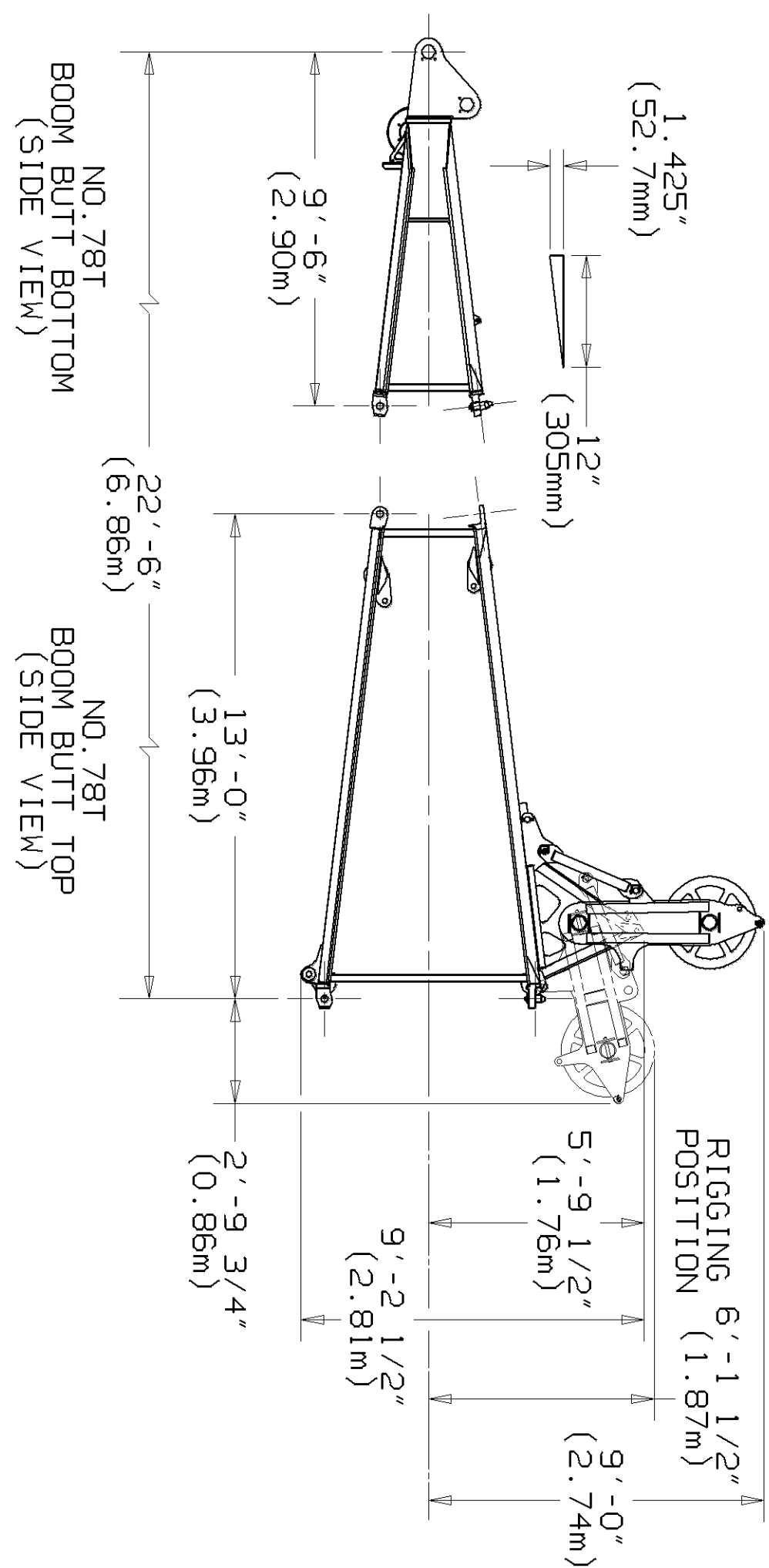
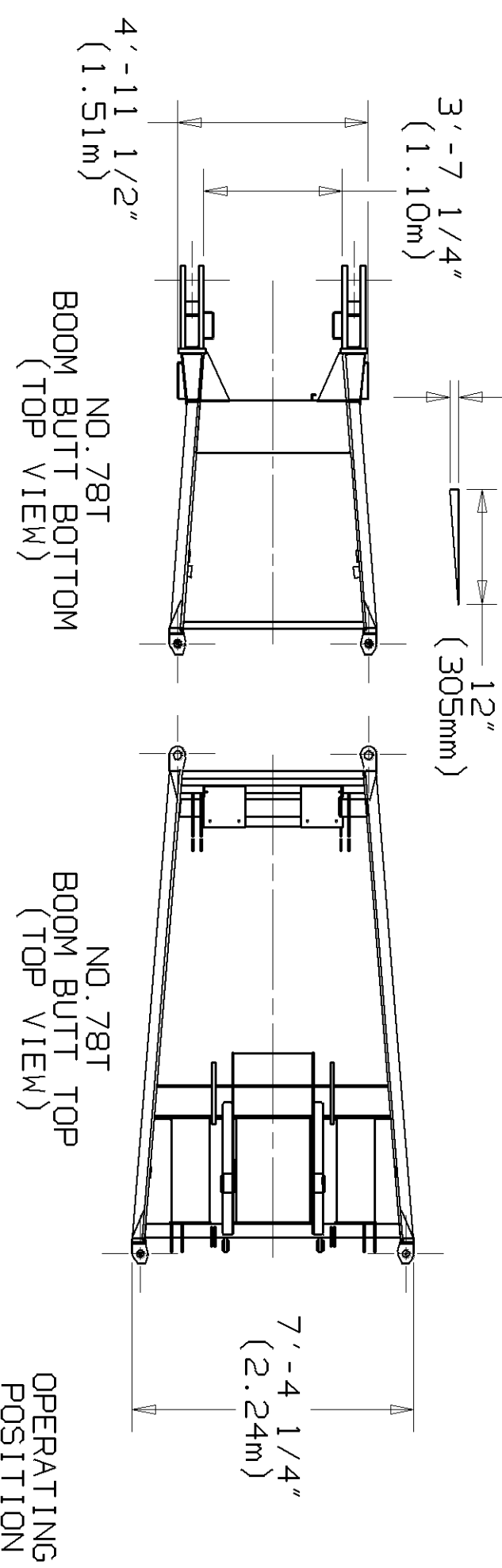
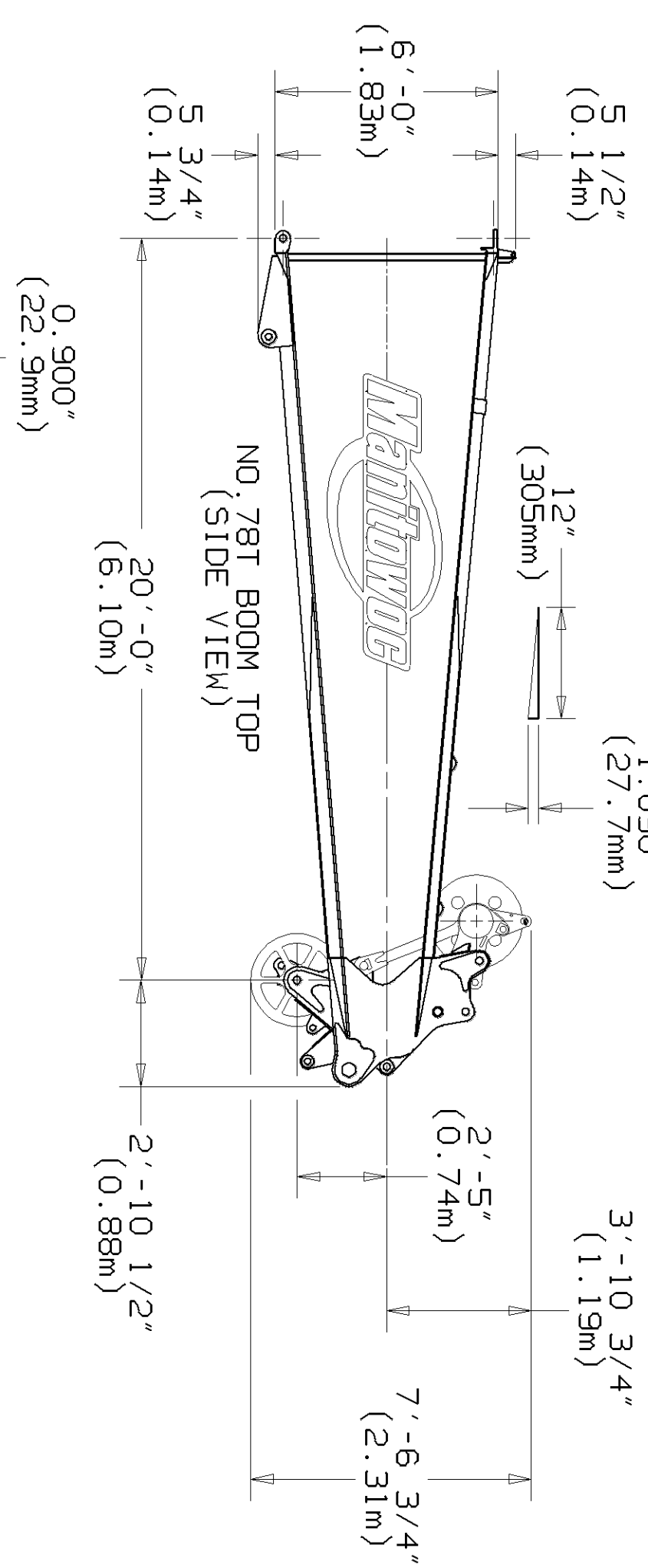
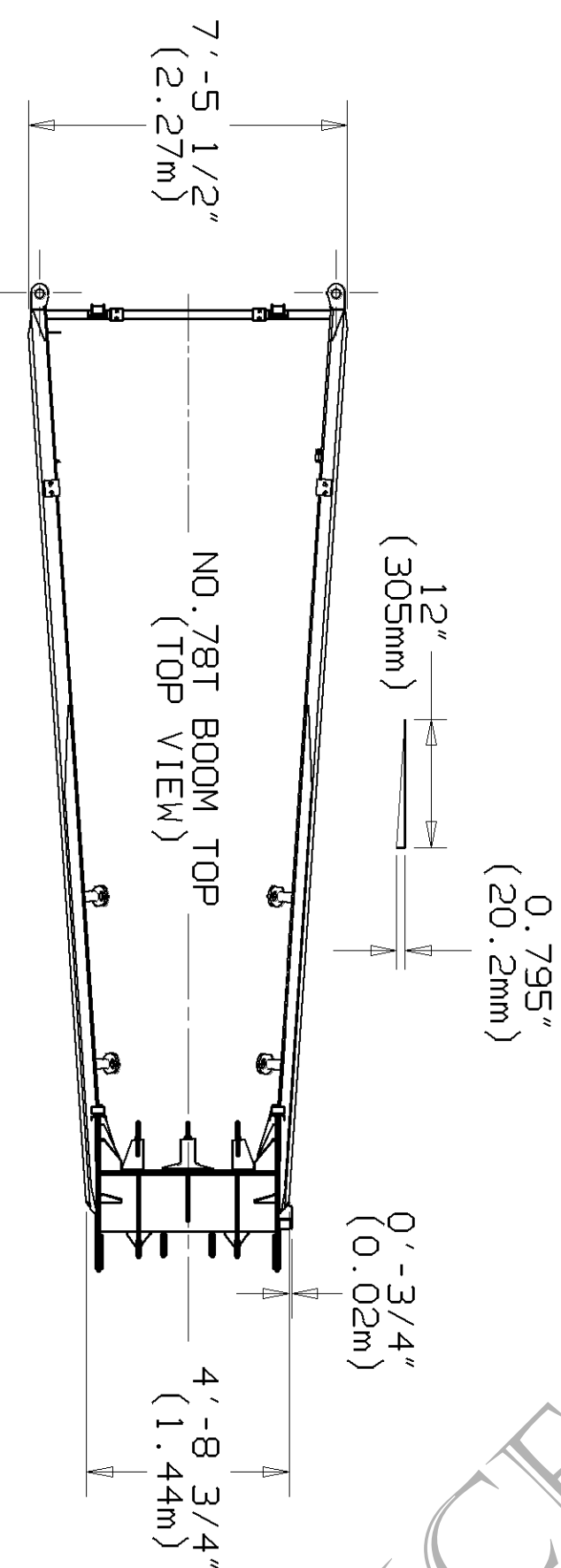
NOTE 2: FOR PLANNING A LIFT, THIS DRAWING IS TO BE USED IN CONJUNCTION WITH APPROPRIATE CAPACITY CHARTS, RANGE CHART, WIRE ROPE SPECIFICATIONS, RIGGING DRAWING, AND OUTLINE DIMENSIONS.

NOTE 3: FOR PLANNING LIFTS WHERE CLEARANCES ARE LIMITED AND ACCURACY IS DESIRED, A DETAILED LAYOUT SHOULD BE PREPARED.

NOTE 4. WHEN EQUIPPED WITH BLOCK-UP LIMIT CONTROL, LOAD BLOCK TO BOOM POINT/JIB POINT MINIMUM DISTANCE MAY BE MORE THAN INDICATED. SEE OPERATOR'S MANUAL FOR "BLOCK-UP LIMIT CONTROL".

NOTE 5: MAXIMUM BOOM ANGLE 88 DEGREES FOR NO.78T BOOM WITH NO.139 LUFFING JIB. MAXIMUM JIB ANGLE 76 DEGREES FOR NO.139 LUFFING JIB WITH BOOM AT 88 DEGREE BOOM ANGLE. SEE CAPACITY CHARTS FOR MAXIMUM LUFFING JIB ANGLES FOR OTHER BOOM CONFIGURATIONS.

NOTE 6: MAXIMUM BOOM AND BOOM AND JIB LENGTHS SHOWN ON SHEET 1 & 2 ARE FOR MACHINE EQUIPPED MAXIMUM COUNTERWEIGHT. IN ALL CASES, REFER TO CRANE BOOM RIGGING OR CAPACITY CHART FOR MAXIMUM LENGTHS.



15 US TON (14 METRIC TON)
SWIVEL HOOK & WEIGHT BALL
TO JIB POINT MINIMUM DISTANCE
NO.139 JIB - SINGLE PART LINE

DATE	5/3/21 3/23/21	DIAGRAM - RANEE ASSEMBLY -	REVISION
08-24-99	DR NWS MANITOWOC, WISCONSIN	NO. 78T BOOM &	07-22-02 NWS
DRAWING NO.	CK T1WB MODEL 7777	NO. 139 LUFFING JIB &	1A NWS SHT 2 OF 2
194490	APP MB	NO. 138 FIXED JIB	SHADDED #138 JIB

60 US TON (55 METRIC TON) BLOCK TO JIB POINT MINIMUM DISTANCE	NO. 139 JIB - 4 PARS OF LINE
MINIMUM DISTANCE MEASUREMENTS FROM MANTOWOC LOAD BLOCK TO JIB POINT SHOWN ABOVE BASED ON 76 DEGREE JIB ANGLE AND PHYSICAL LIMITATIONS.	