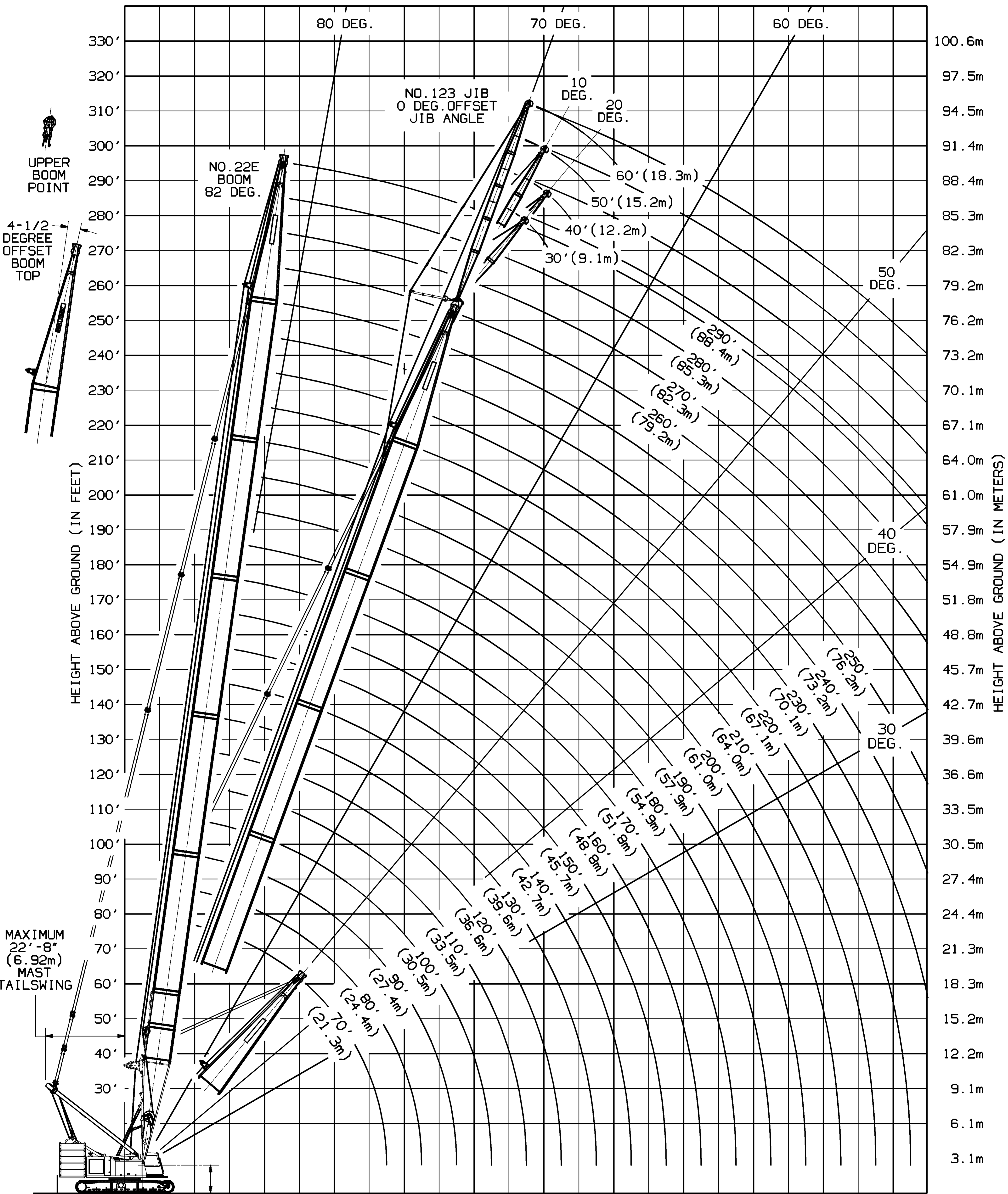


DISTANCE FROM \odot ROTATION (IN METERS)

3.1m 6.1m 9.1m 12.2m 15.2m 18.3m 21.3m 24.4m 27.4m 30.5m 33.5m 36.6m 39.6m 42.7m 45.7m 48.8m 51.8m 54.9m 57.9m 61.0m 64.0m 67.1m



HEIGHT ABOVE GROUND (IN FEET) 330' 320' 310' 300' 290' 280' 270' 260' 250' 240' 230' 220' 210' 200' 190' 180' 170' 160' 150' 140' 130' 120' 110' 100' 90' 80' 70' 60' 50' 40' 30'

HEIGHT ABOVE GROUND (IN METERS) 100.6m 97.5m 94.5m 91.4m 88.4m 85.3m 82.3m 79.2m 76.2m 73.2m 70.1m 67.1m 64.0m 61.0m 57.9m 54.9m 51.8m 48.8m 45.7m 42.7m 39.6m 36.6m 33.5m 30.5m 27.4m 24.4m 21.3m 18.3m 15.2m 12.2m 9.1m 6.1m 3.1m

10' 20' 30' 40' 50' 60' 70' 80' 90' 100' 110' 120' 130' 140' 150' 160' 170' 180' 190' 200' 210' 220'

DISTANCE FROM \odot ROTATION (IN FEET)

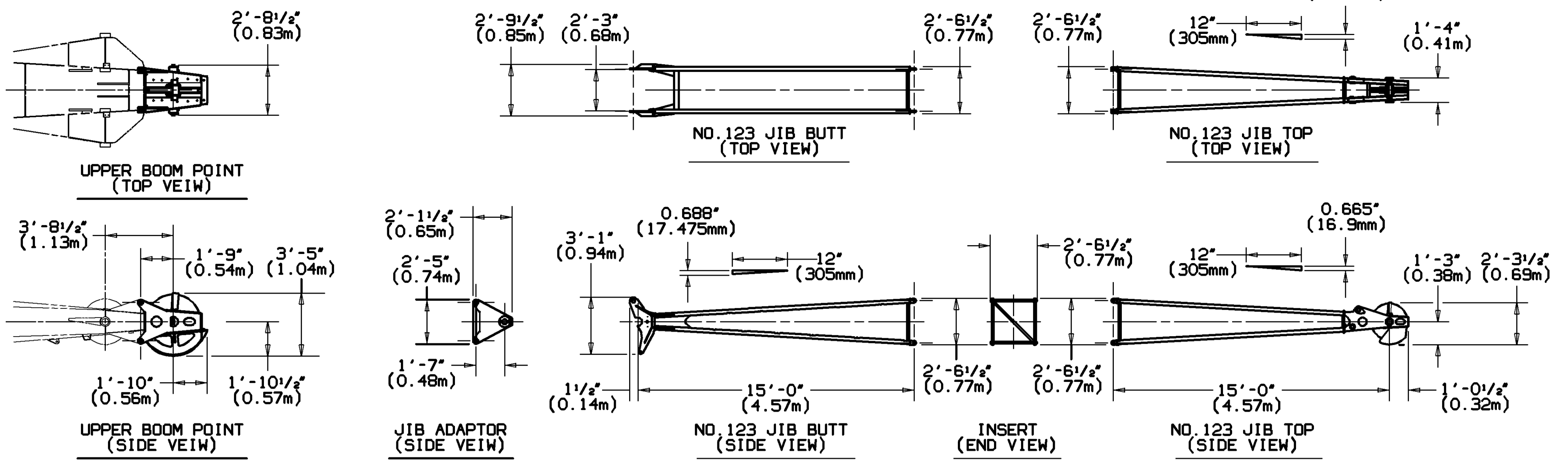
19'-3 1/2" (5.87m) TAILSWING

5'-0" (1.52m)

8'-1" (2.46m)

\odot ROTATION

DATE 04-27-01	SCALE 1/16"=1'	MANITOWOC ENGINEERING CO. MANITOWOC WISCONSIN	REVISION
DRAWING NO. A00530	DR. NVS	DIAGRAM - RANGE ASSEMBLY - NO. 22E BOOM - NO. 123 JIB - OPEN THROAT TOP	
CHK. TWB	MODEL 999		
APP. MEB			



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

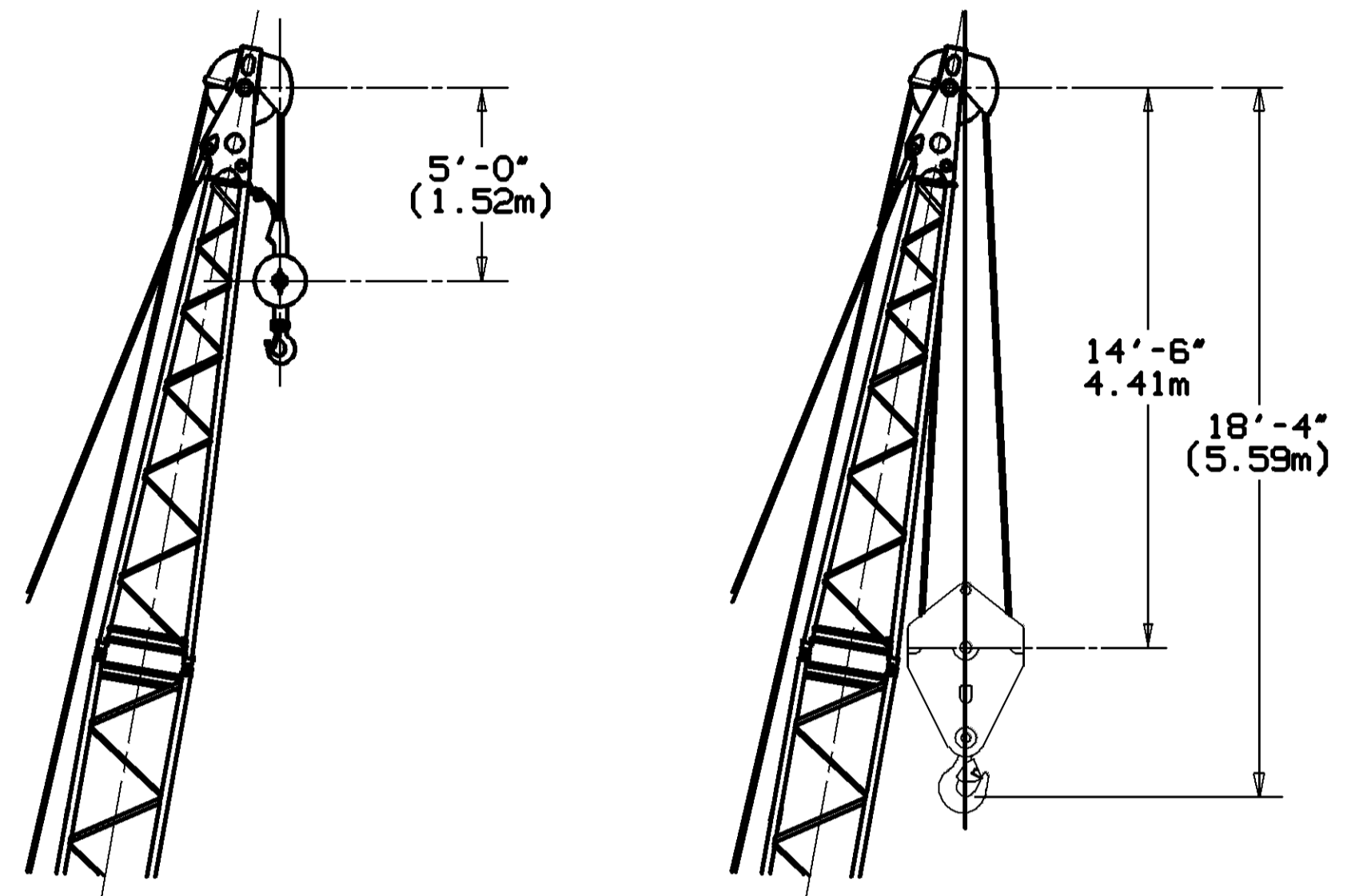
NOTE 2: FOR PLANNING A LIFT, THIS DRAWING IS TO BE USED IN CONJUNCTION WITH APPROPRIATE CAPACITY CHARTS, RANGE CHART, WIRE ROPE SPECIFICATIONS, RIGGING DRAWING, AND OUTLINE DIMENSIONS.

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

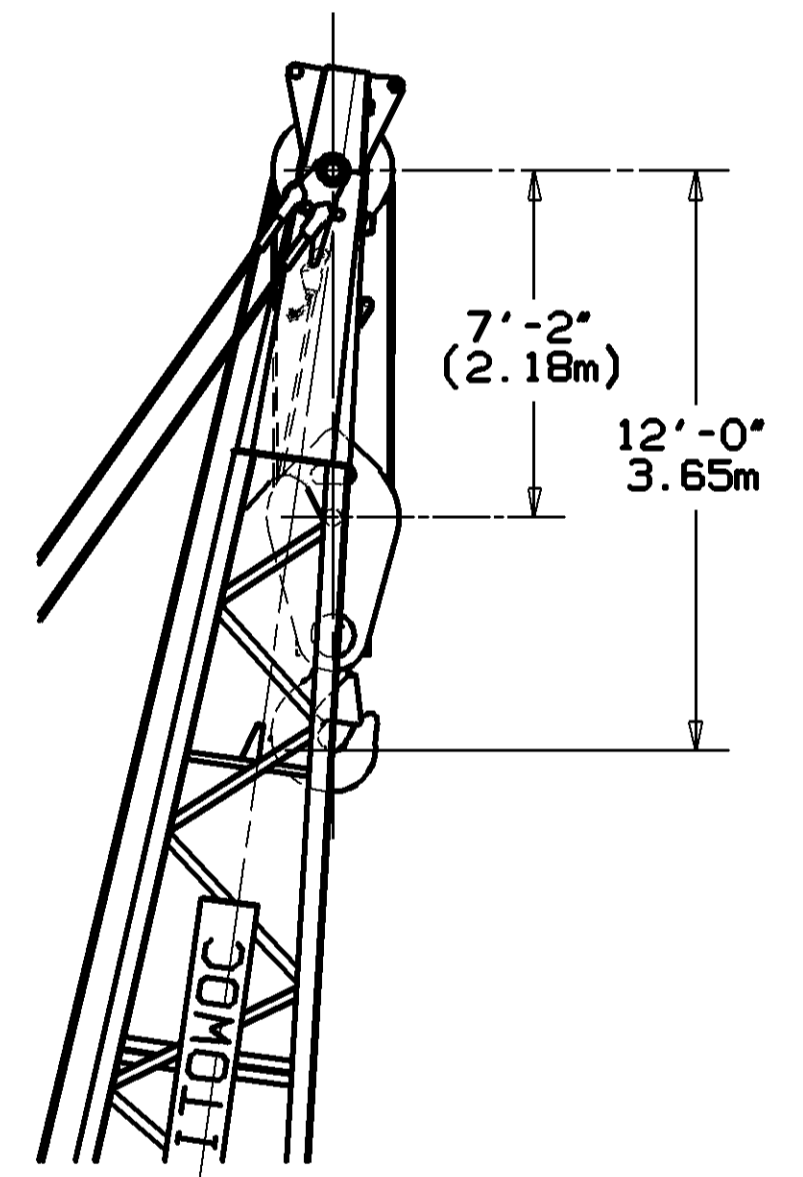
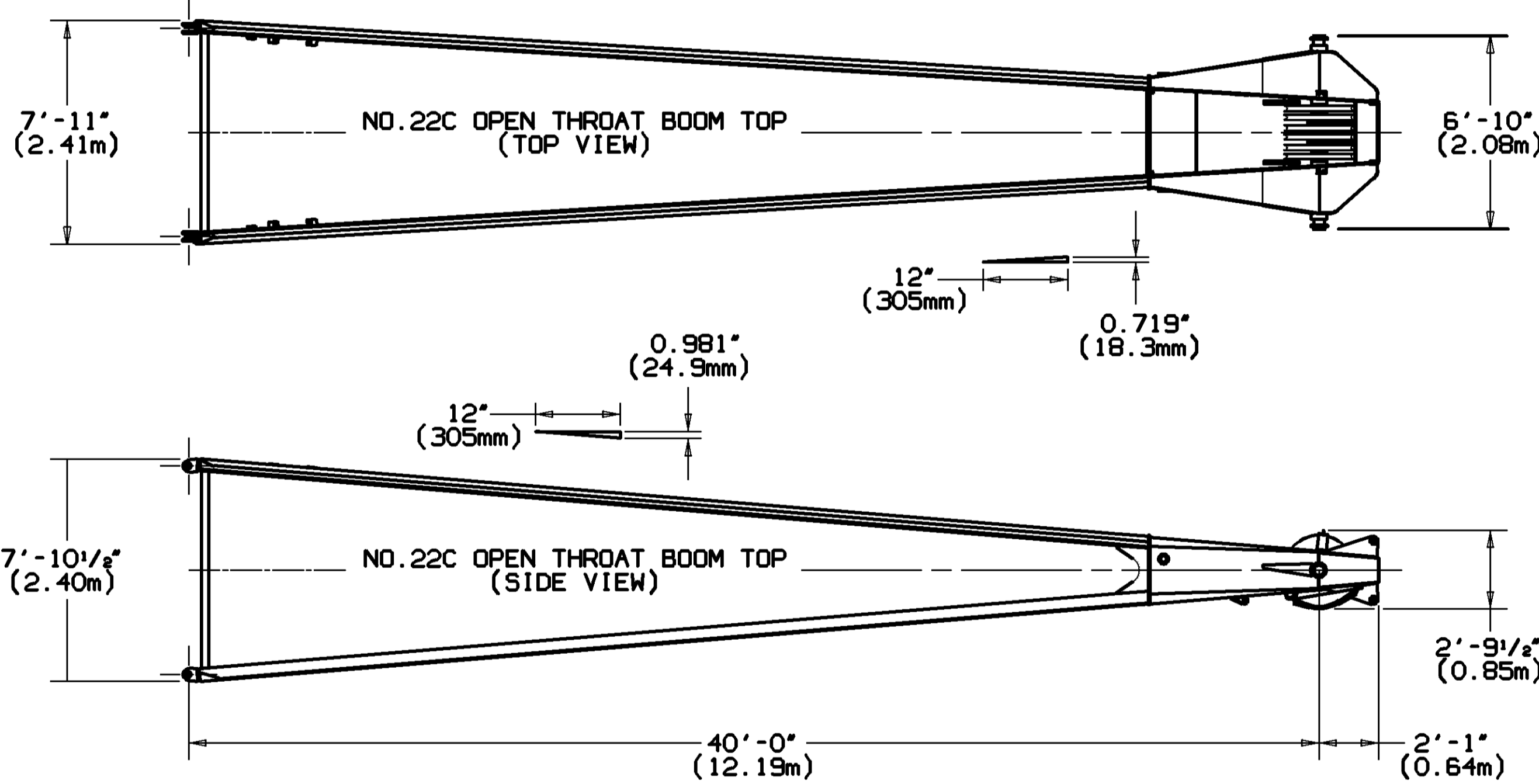
NOTE 4: WHEN EQUIPPED WITH BLOCK-UP LIMIT CONTROL, LOAD BLOCK TO BOOM POINT/JIB POINT MINIMUM DISTANCE MAY BE MORE THAN INDICATED. SEE OPERATOR'S MANUAL FOR "BLOCK-UP LIMIT CONTROL".

NOTE 5: MAXIMUM BOOM ANGLE 82 DEGREES FOR NO. 22E BOOM WITH OPEN THROAT TOP. MAXIMUM BOOM ANGLE 83 DEGREES FOR NO. 22E BOOM WITH 4 1/2 DEGREE OFFSET OPEN THROAT TOP.

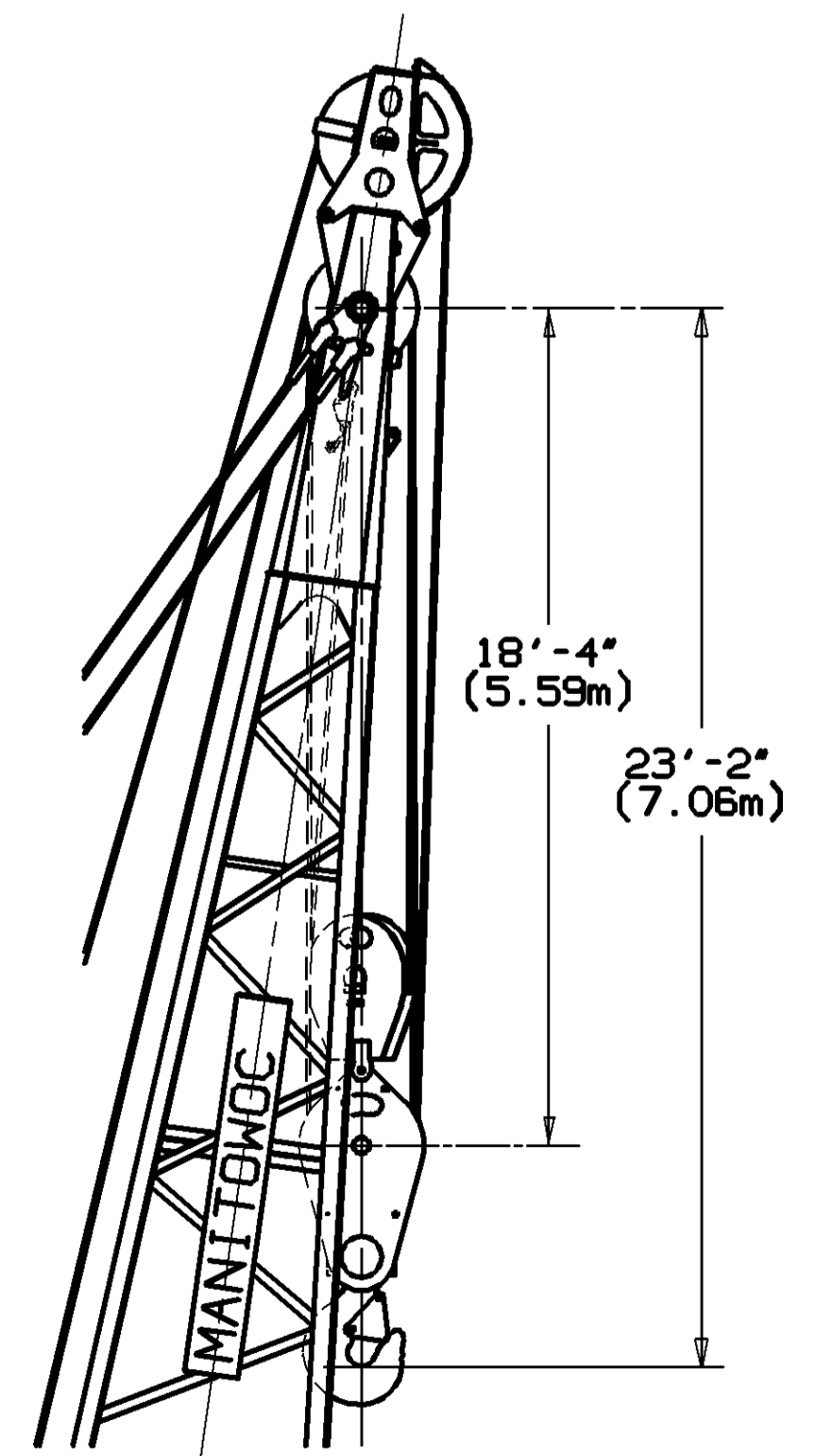
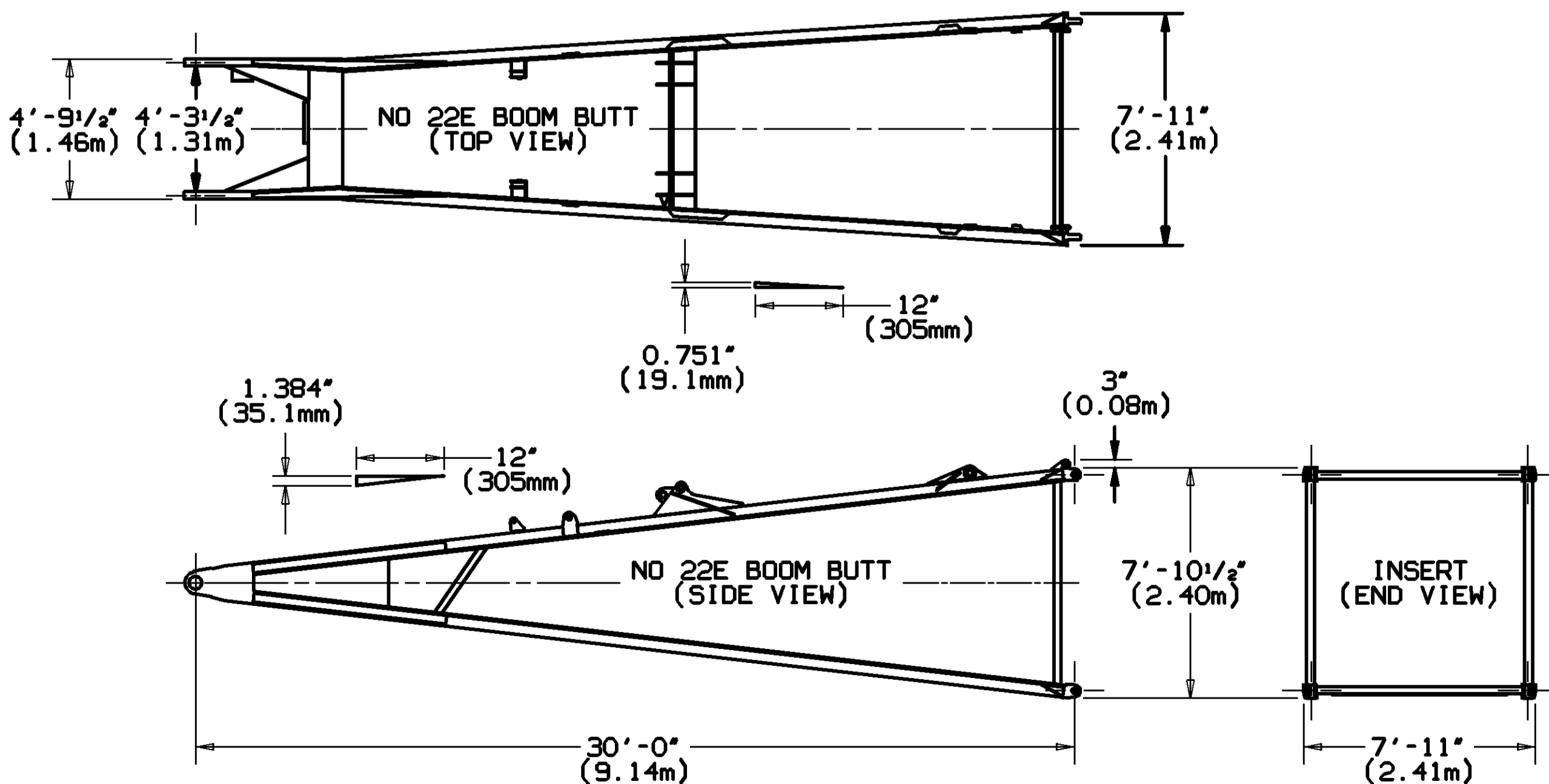
NOTE 6: MAXIMUM BOOM AND BOOM AND JIB LENGTHS SHOWN ON SHEET 1 ARE FOR MACHINES EQUIPPED WITH SERIES 2 OR SERIES 3 COUNTERWEIGHTS. IN ALL CASES, REFER TO CRANE BOOM RIGGING OR CAPACITY CHARTS FOR MAXIMUM LENGTHS.



MINIMUM DISTANCE MEASUREMENTS FROM MANITOWOC LOAD BLOCK TO JIB POINT BASED ON 82 DEGREE JIB ANGLE AND 2 1/2 DEGREE FLEET ANGLE OR PHYSICAL LIMITATIONS.



MINIMUM DISTANCE MEASUREMENTS FROM MANITOWOC LOAD BLOCK TO BOOM POINT SHOWN ABOVE (FOR 22E BOOM WITH STRAIGHT OR OFFSET TOP) BASED ON 82 DEGREE BOOM ANGLE AND 2 1/2 DEGREE FLEET ANGLE OR PHYSICAL LIMITATIONS.



MINIMUM DISTANCE MEASUREMENTS FROM MANITOWOC LOAD BLOCK TO BOOM POINT SHOWN ABOVE (FOR 22E BOOM WITH STRAIGHT OR OFFSET TOP) BASED ON 82 DEGREE BOOM ANGLE AND 2 1/2 DEGREE FLEET ANGLE OR PHYSICAL LIMITATIONS.

DATE	SCALE	MANITOWOC ENGINEERING CO.	REVISION
04-27-01	1/16"=1'	MANITOWOC WISCONSIN	
DRAWING NO. A00530	DR: NVS	NO. 22E BOOM - NO. 123 JIB - OPEN THROAT TOP	
SHT. 2 OF 2	CK: TWB		
	APP: MEB		