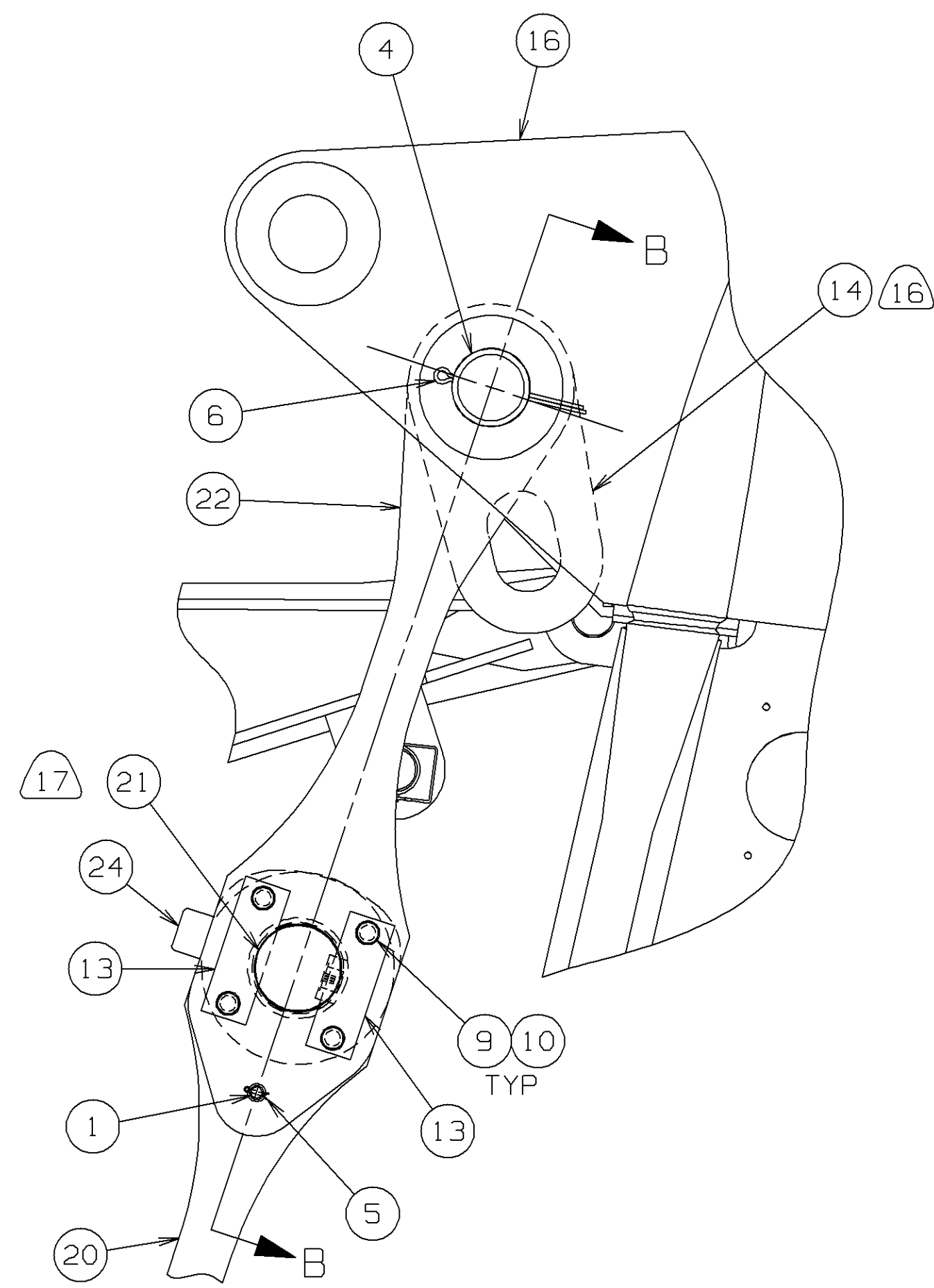
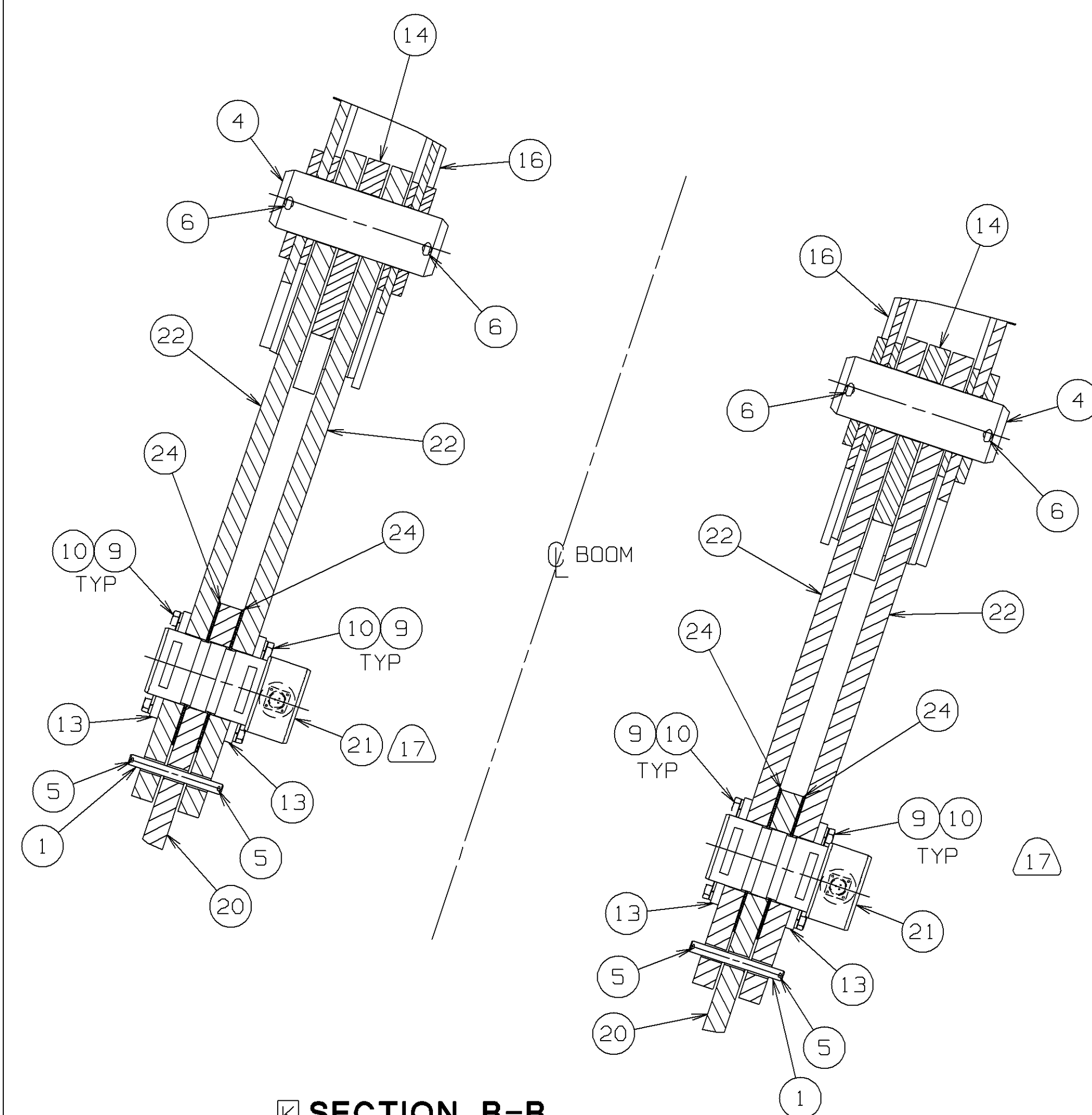
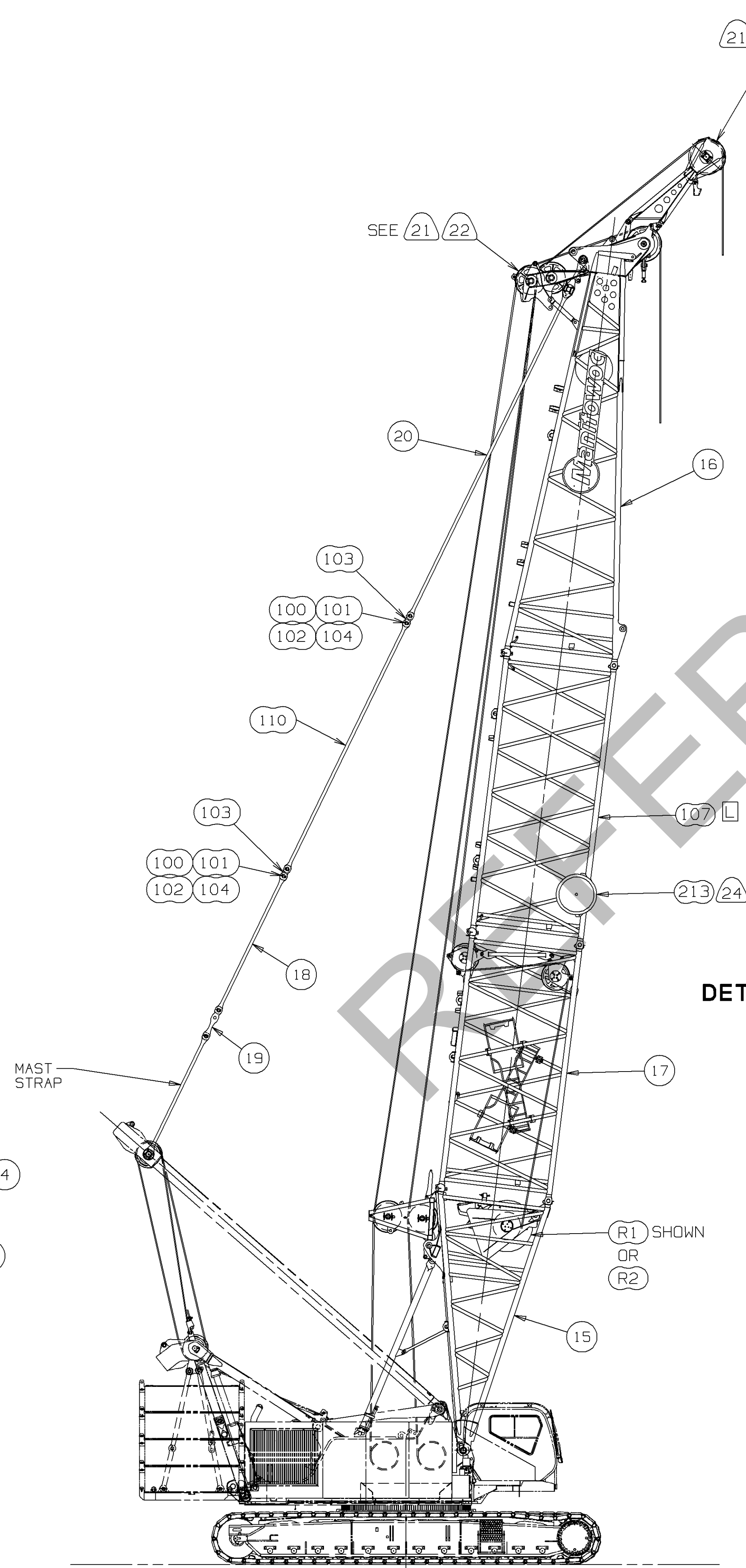
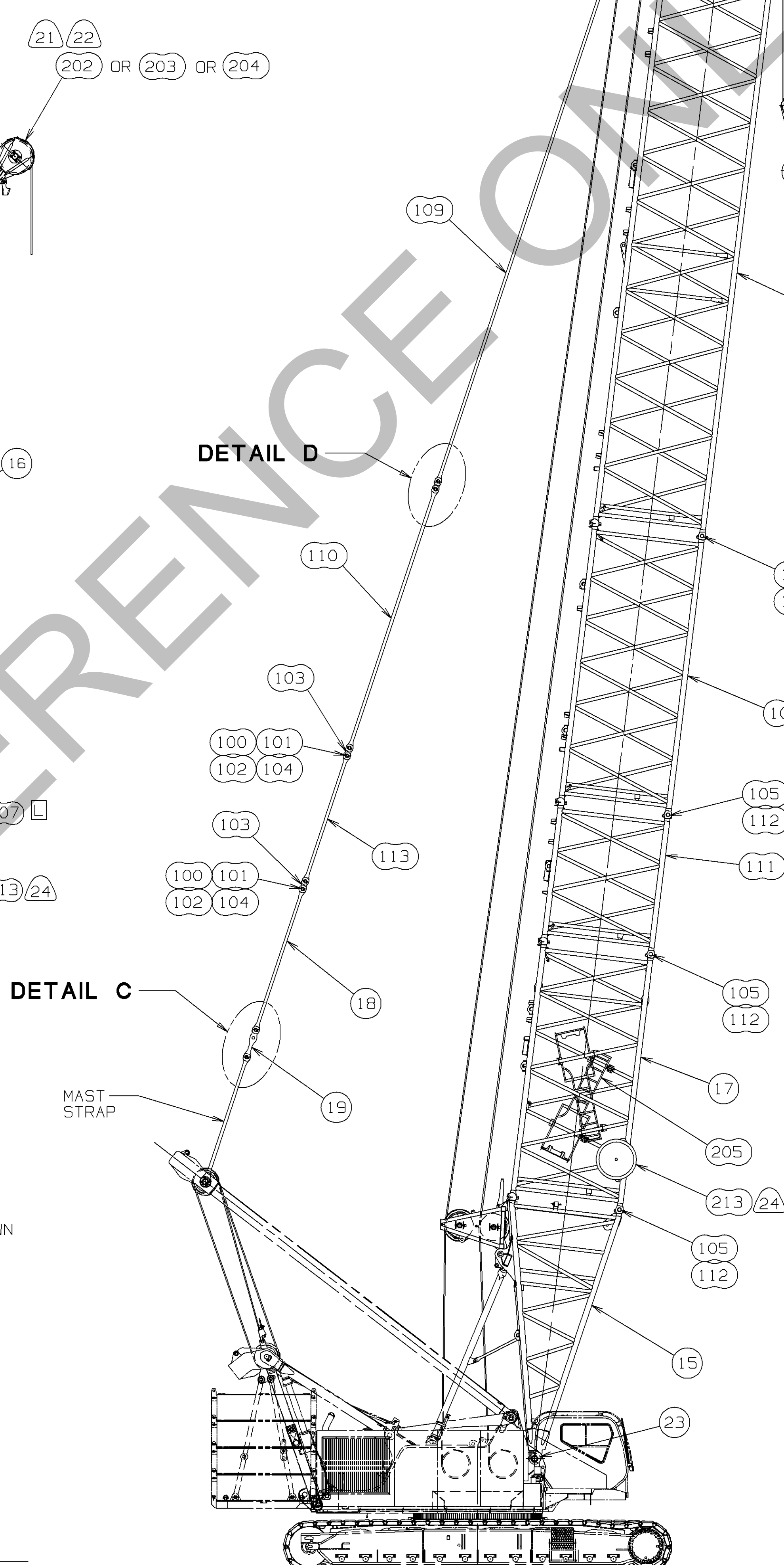


REQ'D. FOR VARIOUS BOOM LENGTHS

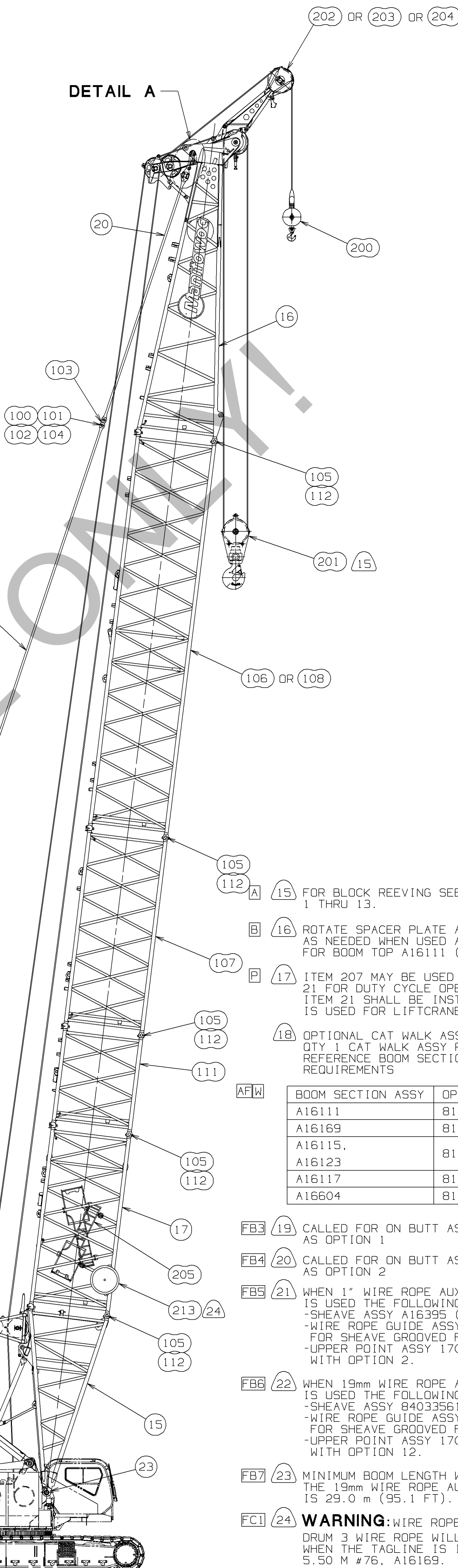
ITEM NO.		111	113	107	110	106	108	109	103	112	105	101	100	102	104	114
BOOM LENGTH		INSERT 3 M (9.8 FT) ASSY	STRAP 3 M (9.8 FT)	INSERT 6 M (19.7 FT) ASSY	STRAP 6 M (19.7 FT)	INSERT 12 M (39.4 FT) ASSY	INSERT 12 M (39.4 FT) W/BACKSTAY ASSY	STRAP 12 M (39.4 FT)	LINK	PIN	PIN SAFETY	PIN	COLLAR	PIN	PIN COTTER	INTER- MEDIATE STRUT SEE (1)
METERS	FEET															
20	23	65.6	0	0	0	0	0	0	4	4	4	8	8	8	16	0
23	23	75.5	1	2	0	0	0	0	8	6	6	12	12	12	24	0
26	23	85.3	0	0	1	2	0	0	8	6	6	12	12	12	24	0
29		95.1	1	2	1	2	0	0	12	8	8	16	16	16	32	0
32		105.0	0	0	0	0	0	1	8	6	6	12	12	12	24	0
35		114.8	1	2	0	0	0	1	12	8	8	16	16	16	32	0
38		124.7	0	0	1	2	0	1	12	8	8	16	16	16	32	0
41		134.5	1	2	1	2	0	1	16	10	10	20	20	20	40	0
44		144.4	0	0	0	0	1	1	12	8	8	16	16	16	32	0
47		154.2	1	2	0	0	1	1	16	10	10	20	20	20	40	0
50		164.0	0	0	1	2	1	1	16	10	10	20	20	20	40	0
53		173.9	1	2	1	2	1	1	20	12	12	24	24	24	48	0
56		183.7	0	0	0	0	2	1	16	10	10	20	20	20	40	0
59		193.6	1	2	0	0	2	1	20	12	12	24	24	24	48	0
62		203.4	0	0	1	2	2	1	20	12	12	24	24	24	48	0
65		213.3	1	2	1	2	2	1	24	14	14	28	28	28	56	0
68		223.1	0	0	0	0	3	1	20	12	12	24	24	24	48	1
71		233.0	1	2	0	0	3	1	24	14	14	28	28	28	56	1
74		242.8	0	0	1	2	3	1	24	14	14	28	28	28	56	1
77		252.6	1	2	1	2	3	1	28	16	16	32	32	32	64	1
80		262.5	0	0	0	0	4	1	24	14	14	28	28	28	56	1
83		272.3	1	2	0	0	4	1	28	16	16	32	32	32	64	1
86		282.2	0	0	1	2	4	1	28	16	16	32	32	32	64	1
89		292.0	1	2	1	2	4	1	32	18	18	36	36	36	72	1

DETAIL A
SCALE:2=1FTSECTION B-B
SCALE:2=1FT

BUTT MOUNTED AUX. DRUM RIGGING



41M BOOM



DETAIL D

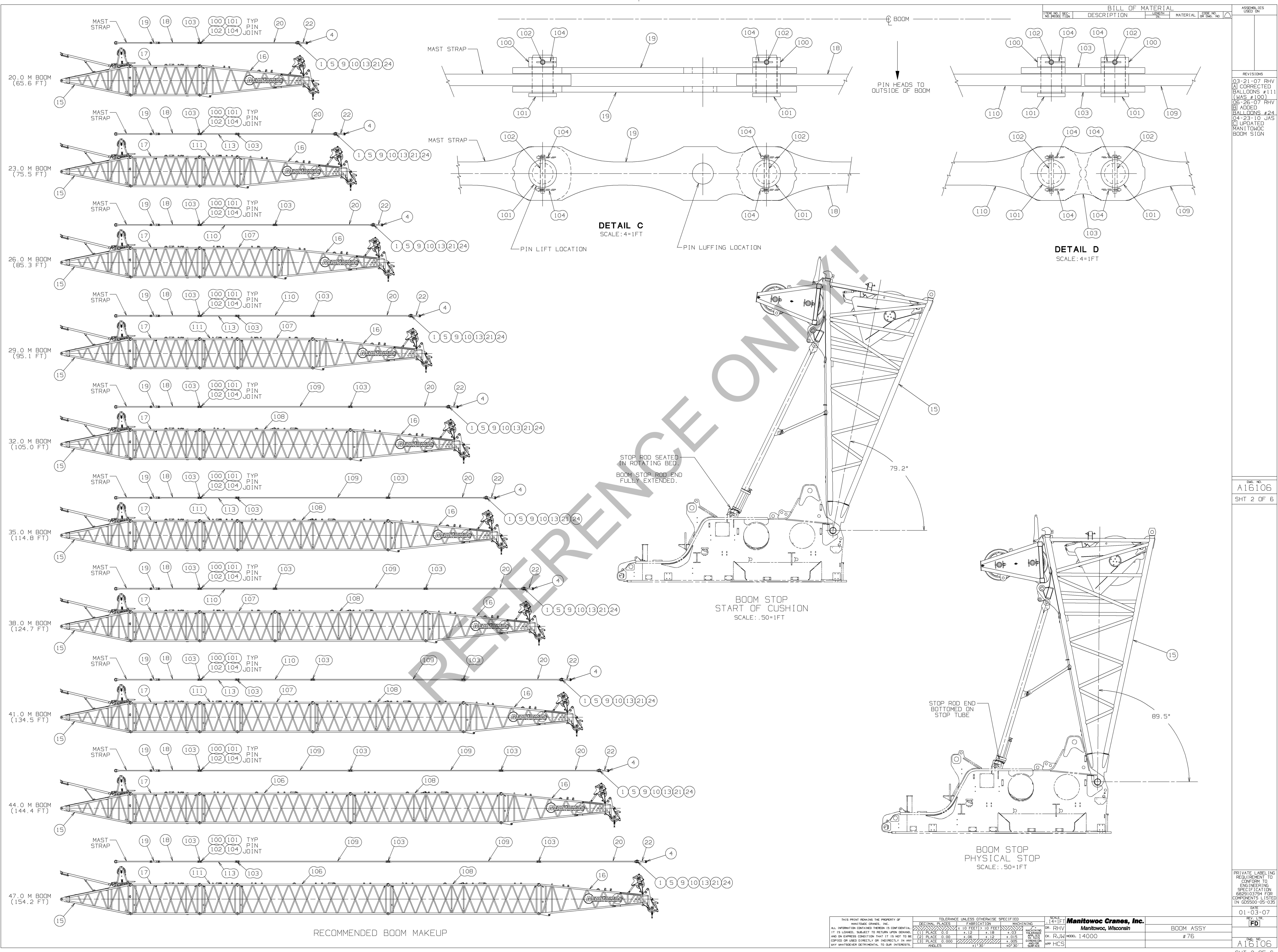
- (15) FOR BLOCK REEVING SEE 006064 SHEETS 1 THRU 13.
- (16) ROTATE SPACER PLATE A08502 (ITEM 14) AS NEEDED WHEN USED AS LIFTING LUG FOR BOOM TOP A16111 (ITEM 16).
- (17) ITEM 207 MAY BE USED IN PLACE OF ITEM 21 FOR DUTY CYCLE OPERATION ONLY. ITEM 21 SHALL BE INSTALLED WHEN CRANE IS USED FOR LIFT CRANE OPERATION.
- (18) OPTIONAL CAT WALK ASSEMBLY QTY 1 CAT WALK ASSY PER BOOM SECTION ASSY REFERENCE BOOM SECTION ASSY FOR TIMBER REQUIREMENTS

BOOM SECTION ASSY	OPTIONAL CAT WALK ASSY
A16111	81016679
A16169	81016680
A16115,	81016678
A16123	
A16117	81016949
A16604	81016682

- FB3 (19) CALLED FOR ON BUTT ASSY (ITEM 15) AS OPTION 1
- FB4 (20) CALLED FOR ON BUTT ASSY (ITEM 15) AS OPTION 2
- FB5 (21) WHEN 1" WIRE ROPE AUX DRUM ASSY (ITEM R1) IS USED THE FOLLOWING ARE ALSO REQUIRED:
-SHEAVE ASSY A16395 (OPTION IN A16169).
-WIRE ROPE GUIDE ASSY A16631 W/OPTION FOR SHEAVE GROOVED FOR 1.00 INCH WIRE ROPE.
-UPPER POINT ASSY 170419 (ITEM 202) WITH OPTION 2.
- FB6 (22) WHEN 19mm WIRE ROPE AUX DRUM ASSY (ITEM R2) IS USED THE FOLLOWING ARE ALSO REQUIRED:
-SHEAVE ASSY 84033561 (OPTION IN A16169).
-WIRE ROPE GUIDE ASSY A16631 W/OPTION FOR SHEAVE GROOVED FOR 19mm WIRE ROPE.
-UPPER POINT ASSY 170419 (ITEM 202) WITH OPTION 12.
- FB7 (23) MINIMUM BOOM LENGTH WHEN USING THE 19mm WIRE ROPE AUX HOIST IS 29.0 m (95.1 FT).
- FC1 (24) **WARNING:** WIRE ROPE DAMAGE
DRUM 3 WIRE ROPE WILL CONTACT TAGLINE WHEN THE TAGLINE IS INSTALLED IN INSERT 5.50 M #76, A16169. THIS COULD BE INSERT ASSEMBLY A16115, A16117, A16123 OR A16604

IF DRUM 3 IS OPERATIONAL THE TAGLINE ASSEMBLY, 81021954, IS TO BE INSTALLED IN THE INSERT ADJACENT TO INSERT 5.50 M #76, A16169. THIS COULD BE INSERT ASSEMBLY A16115, A16117, A16123 OR A16604

BILL OF MATERIAL				ASSEMBLIES USED ON	
ITEM NO. OR REQ'D	DESCRIPTION	QUANTITY	MATERIAL	CODE NO. OR QTY	ASSEMBLY
BOOM ASSEMBLY #76 A16106					
1	2PIN 2 HOLE .625 DIA X 5.22 LG		A00837		
2					
3					
4	2PIN 2 HOLE 3.50 DIA X 7.85		196028		
5	4PIN COTTER .125 X 1.25		562044		
6	4PIN COTTER .375 X 6.00		562158		
7					
8					
9	16SCR CP HX HD M16-2 X 35 8.8 ZC		7126241453		
10	16WASHER LOCK M16 ZC		7951240220		
11					
12					
13	8PLATE KEEPER 12 MM		A19734		
14	2SPACER PLATE 190.6 OD X 90.42 ID X 32 THK		A08502		
15	1BUTT ASSY #76, 5.50M		A16107		
16	1TOP ASSY #76, 9.00M		A16111		
17	1INSERT 5.50M ASSY #76 W/AUX SHEAVES		A16169		
18	2STRAP 5.5M #76 BOOM 31.75 X 63.50		A16393		
19	4LINK CONNECTING #76 BOOM STRAP		A16394		
20	2STRAP TOP #76 BOOM 31.75 X 63.50		A16418		
21	2PIN LOAD 100.0MM DIA X 187.500 LBS		80140366		
22	4LINK LOAD PIN		A16931		
23	2SHIM .134 (in) THK		A16907		
24	4SHIM 14 GA (.074 IN)		81005402		
25					
NO. REQ'D FOR THE FOLLOWING ITEMS ARE IN TABLES					
100	COLLAR 3.00 DIA X 1.00 LG		179862		
101	PIN 1 HOLE W/HD 2.25 DIA X 4.50 LG		179863		
102	PIN 2 HOLE .50 DIA X 3.28 LG		179959		
103	LINK BOOM STRAP		195984		
104	PIN COTTER .188 X 1.50		562085		
105	PIN SAFETY .243 OD X 5.00		563640		
106	INSERT 12.00M ASSY #76		A16115		
107	INSERT 6.00M ASSY #76		A16117		
108	INSERT 12.00M ASSY #76 W/BACKSTAY LUG		A16123		
109	STRAP 12M #76 BOOM 31.75 X 63.50		A16171		
110	STRAP 6M #76 BOOM 31.75 X 63.50		A16172		
111	INSERT 3.00M ASSY #76		A16604		
112	PIN 1 HOLE W/HD 70.00 DIA X 132.4 LG		A16733		
113	STRAP 3M #76 BOOM 31.75 X 63.50		A16776		
114	BOOM ASSY #76 INTERMEDIATE STRUT		A17953		
115					
116					
OPTIONAL PARTS					
200	1HOOK & WEIGHTBALL 15 TON		218214		
201	1220 TON BLOCK WITH SINGLE HOOK		237082		
202	1BOOM POINT UPPER ASSY		170419		
203	1BOOM POINT UPPER ASSY #76		A08493		
204	1BOOM POINT UPPER ASSY #76		A17669		
205	1BOOM ASSY #76 LADDER STORAGE		A17962		
206	1PILE DRIVER ADAPTER ASSY FOR BOOM #76		81000908		
207	2PIN KEEPER 100 MM DIA X 163 MM LG		81007227		
208	CAT WALK ASSY 9M #76 TOP		81016679		
209	CAT WALK ASSY 5.5M #76 INSERT		81016680		
210	CAT WALK ASSY 12M #76 INSERT		81016678		
211	CAT WALK ASSY 6M INSERT		81016949		
212	CAT WALK ASSY 3M INSERT		81016682		
213	1TAGLINE ASSY #76 BOOM		81021954		
214	1OVERHAUL BALL 12TON RATING - USE W3/4 ROPE		7053100010		
215	1HOOK BLOCK 261, 1 SHEAVE, 19 mm ROPE		03296564		
REFERENCE ITEMS: AUX DRUMS					
R1	DRUM LUFFING ASSY FOR 1.00" ROPE		A17176		
R2	HOIST AUXILIARY 19mm ROPE		84033560		
H (1) 68 M (223.1 FT), 71 M (233.0 FT), 74 M (242.8 FT), 77 M (252.6 FT), 80 M (262.5 FT), 83 M (272.3 FT), 86 M (282.2 FT) AND 89 M (292.0 FT) BOOM REQUIRES INTERMEDIATE STRUT ITEM 114. (SEE SHEETS 3, 4 AND 6)					
2 MAXIMUM NUMBER OF 3 METER INSERTS = 1.					
3 MAXIMUM NUMBER OF 6 METER INSERTS = 1.					
4 3 METER INSERT MUST BE ADJACENT TO 5.5 METER INSERT W/AUX SHEAVES.					
5 6 METER INSERT MUST BE ADJACENT TO 5.5 METER INSERT W/AUX SHEAVES OR THE 3 METER INSERT WHEN INSTALLED. SEE SHEET 2 AND 3 FOR SPECIFIC LOCATION FOR VARIOUS BOOM LENGTHS.					
6 BUTT 5.50M WELDMENT I.D. TAG #A16109.					
7 INSERT 5.50M W/AUX SHEAVES WELDMENT I.D. TAG #A16170.					
8 INSERT 3.00M WELDMENT I.D. TAG #A16605.					
9 INSERT 6.00M WELDMENT I.D. TAG #A16118.					
10 INSERT 12.00M WELDMENT I.D. TAG #A16116.					
11 INSERT 12.00M W/BACKSTAY LUG WELDMENT I.D. TAG #A16124.					
12 TOP 9.00M WELDMENT I.D. TAG A16563, 81017261 OR 81020289.					
13 JIB CANNOT BE USED WITH THIS ASSEMBLY.					
14 ITEMS 100, 101, 102 AND 104 QUANTITIES INCLUDE ITEMS THAT ARE STORED WHEN INTERMEDIATE STRUT IS USED. (SEE SHEET 6)					
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 8629103794 FOR COMPONENTS LISTED IN 005000-00-005					
DATE 01-03-07					
PATTERN NO. FD1					
MANITOWOC Cranes, Inc. BOOM ASSY					
Manitowoc, Wisconsin #76					
MODEL 14000					
APP HCS					
A16106					
SHT 1 OF 6					



BILL OF MATERIAL

ITEM NO.	REV.	DESCRIPTION	LENGTH	MATERIAL	CODE NO.	OR	QTY.	NO.
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ASSEMBLIES USED ON

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REVISIONS

03-21-07 RHV
A) CORRECTED
BALL JOINTS #111
(WAS #100)
06-26-07 RHV
B) ADDED
BALL JOINTS #24
04-23-10 JAS
C) UPDATED
MANITOWOC
BOOM SIGN

DWG. NO.

A16106

SHT 2 OF 6

DATE

01-03-07

REV. 1

FDI

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN 682900-05-025

DATE

01-03-07

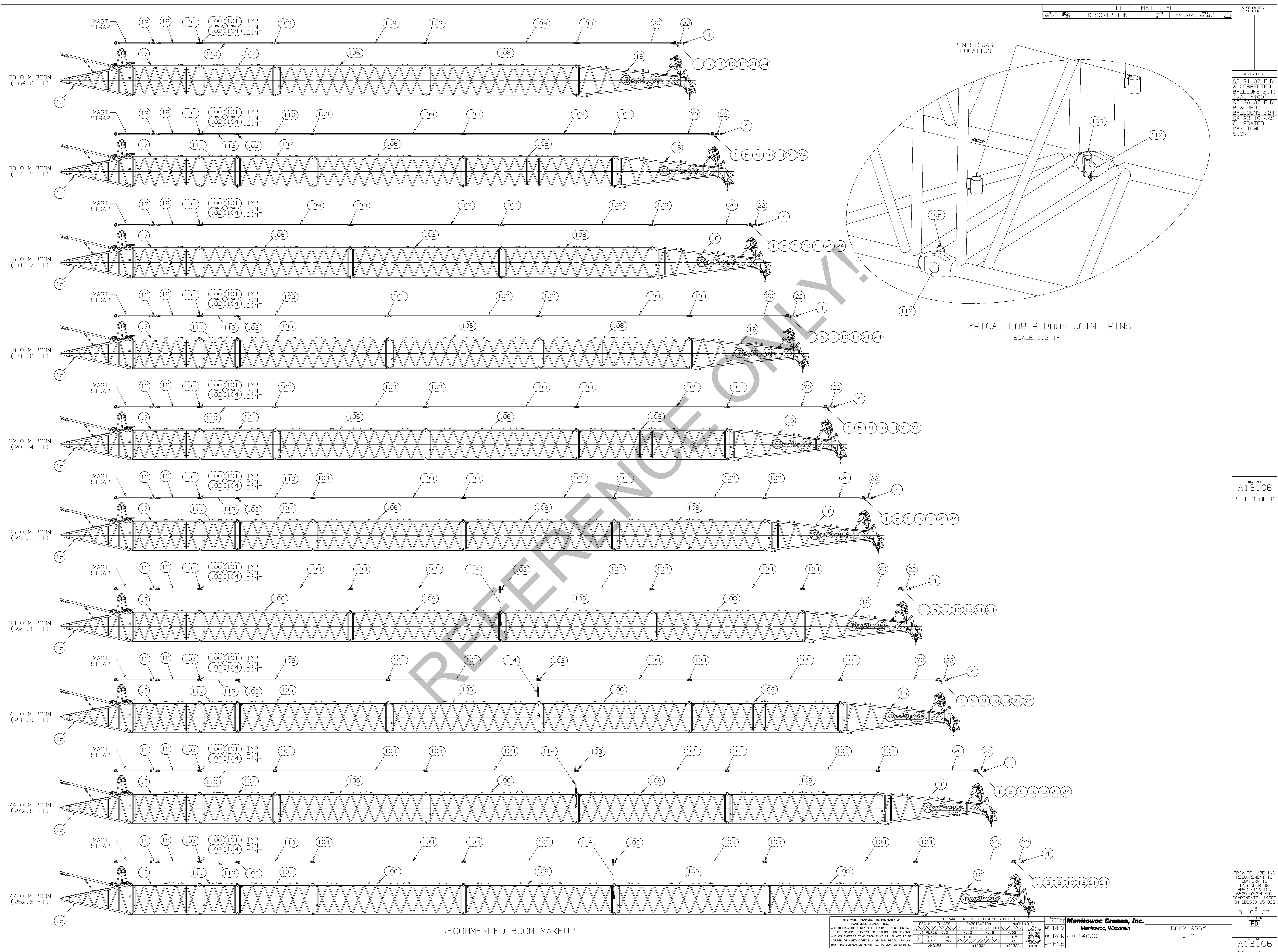
REV. 1

FDI

DWG. NO.

A16106

SHT 2 OF 6



BILL OF MATERIAL			
ITEM NO.	REV.	DESCRIPTION	QUANTITY

ASSEMBLIES USED ON

REVISIONS
03-21-07 RHV
A) CORRECTED
BALLOONS #111
(WAS #100)
06-26-07 RHV
B) ADDED
BALLOONS #24
04-23-10 JAS
C) UPDATED
MANITOWOC
STGN

DWG. NO.
A16106
SHT
3 OF 6

PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 682900-05-025

DATE
01-03-07
REV.
FDI

DWG. NO.
A16106
SHT
3 OF 6

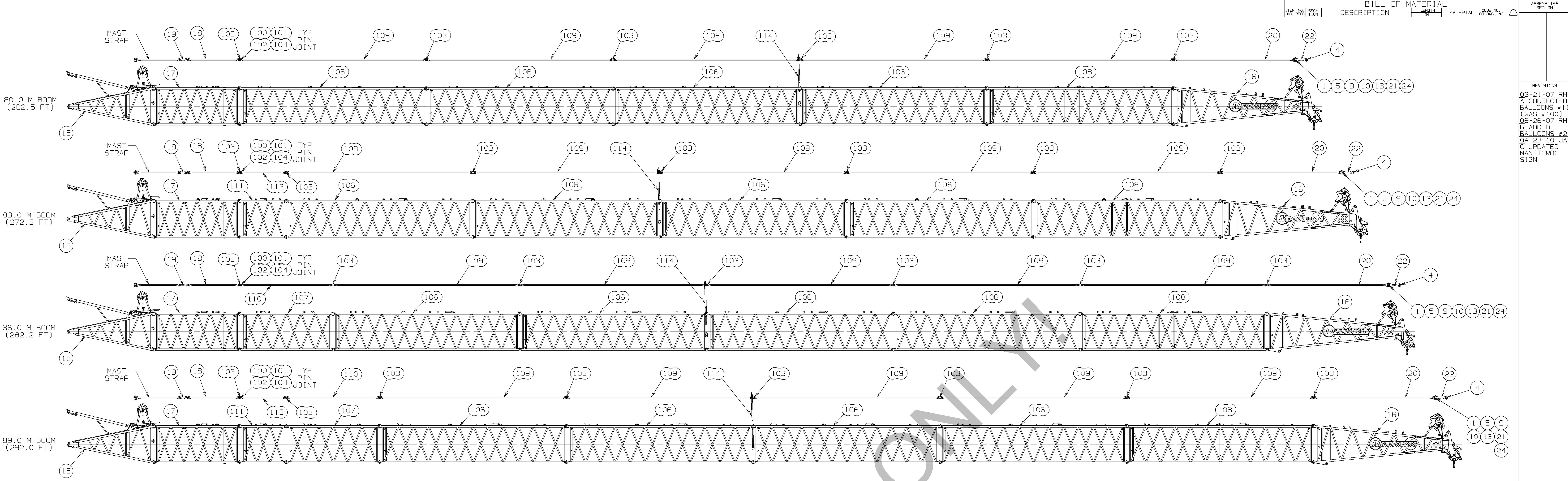
RECOMMENDED BOOM MAKEUP

TOLERANCE UNLESS OTHERWISE SPECIFIED			
DECIMAL PLACES	FABRICATION	MACHINING	MACHINING
(1) FRACTION	± 0.005	± 0.005	± 0.005
(2) PLACE	± 0.005	± 0.005	± 0.005
(3) PLACE	± 0.005	± 0.005	± 0.005
ANGLES	± 1°	± 1°	± 1°

Manitowoc Cranes, Inc.
Manitowoc, Wisconsin
Model 14000
APP: HCS

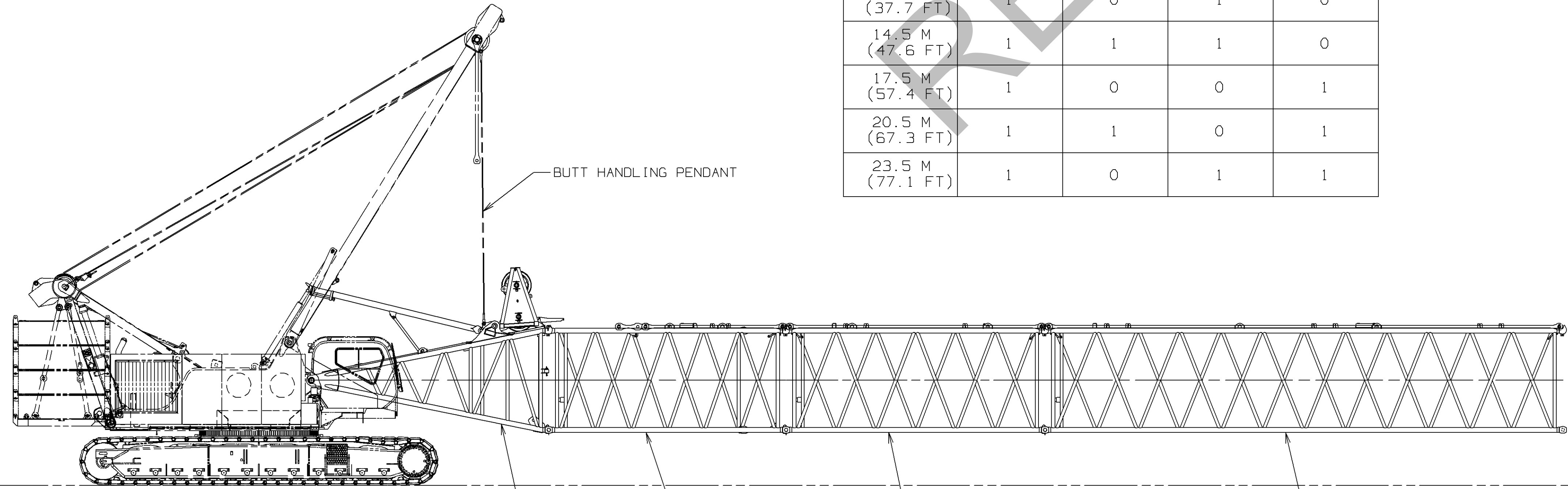
BOOM ASSY
76

DO NOT SCALE THIS DRAWING

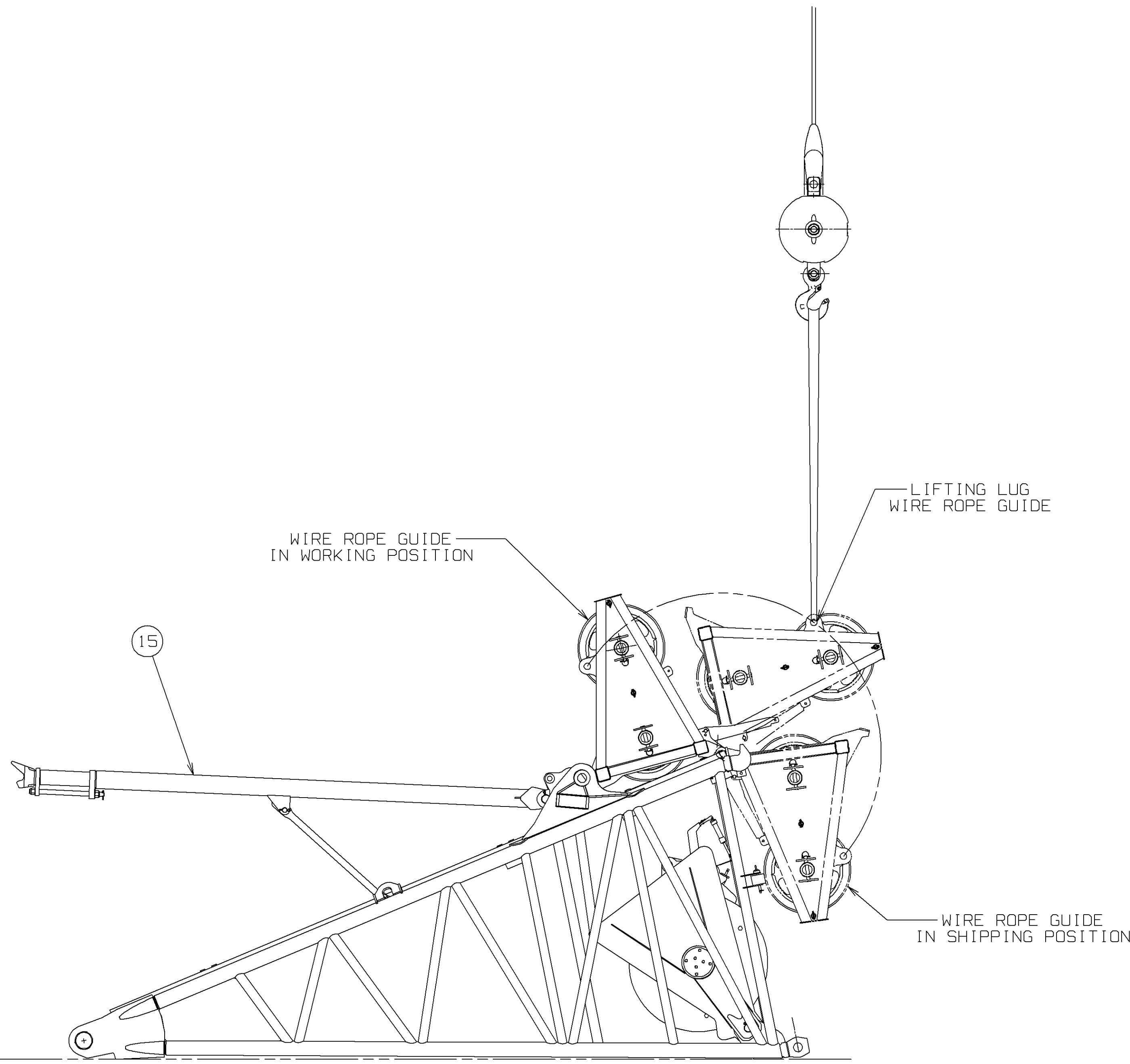


RECOMMENDED BOOM MAKEUP

BOOM HANDLING WITH MAST WITH BOOM HANDLING PENDANTS ON MAST ATTACHED TO LUG ON BOOM BUTT: MAXIMUM BOOM THAT CAN BE CANTILEVERED IS AS FOLLOWS.				
LENGTH	5.5 M (18.0 FT) INSERT W/AUX SHEAVES	3 M (9.8 FT) INSERT	6 M (19.7 FT) INSERT	12 M (39.4 FT) INSERT
5.5 M (18.0 FT)	1	0	0	0
8.5 M (27.9 FT)	1	1	0	0
11.5 M (37.7 FT)	1	0	1	0
14.5 M (47.6 FT)	1	1	1	0
17.5 M (57.4 FT)	1	0	0	1
20.5 M (67.3 FT)	1	1	0	1
23.5 M (77.1 FT)	1	0	1	1



BOOM HANDLING WITH MAST
SCALE: 1:19=1FT



BOOM BUTT WIRE ROPE GUIDE ARRANGEMENT
SCALE: 1:50=1FT

BILL OF MATERIAL			
ITEM NO.	SEC.	DESCRIPTION	LENGTH

CODE NO.	MATERIAL	OR	OR
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REVISIONS
03-21-07 RHV A) CORRECTED BALLBOONS #111 (WAS #100) 06-26-07 RHV B) ADDED BALLBOONS #24 04-23-10 JAS C) UPDATED MANITOWOC SIGN

DWG. NO.
A16106
SHT 4 OF 6

TOLERANCE UNLESS OTHERWISE SPECIFIED			
DECIMAL PLACES	FABRICATION	MACHINING	SCALE
(1) PLACE 0.0	+0.12	+0.18	1:14=1F
(2) PLACE 0.00	+0.06	+0.09	DR. RHV
(3) PLACE 0.000	+0.003	+0.005	CK. RJW
ANGLES	11.30	10.30	MODEL 14000
APP. HCS			
Manitowoc Cranes, Inc.			
Manitowoc, Wisconsin			
BOOM ASSY			
#76			
DATE			
01-03-07			
REV. TWR			
FDI			
Dwg. No.			
A16106			
SHT 4 OF 6			

A

J

F

HDE C

BILL OF MATERIAL					ASSEMBLIES USED ON
ITEM NO.	REV.	DESCRIPTION	LENGTH	MATERIAL	

REV.	DATE	DESCRIPTION
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REVISIONS		
04-17-07	RHV	A WAS 174.5°
04-20-07	RHV	B WAS 174.5°
04-20-07	RHV	C ADDED BOOM BUTT INSTALLATION NOTE
04-20-07	RHV	D ADDED NOTE
04-20-07	RHV	E ADDED VIEW
06-28-07	RHV	F PICTURES UPDATED
10-10-07	RHV	G ADDED NOTE
04-23-10	JAS	H ADDED DIM
04-23-10	JAS	I UPDATED MANITOWOC BOOM SIGN

TO ATTACH ASSEMBLY BLOCK

WITH MACHINE ON PEDESTALS FOR MACHINE ASSEMBLY
OR ON CRAWLERS FOR MACHINE DISASSEMBLY

1. BOOM DOWN MAST TO 172° MAXIMUM AND INSTALL BLOCK.

WARNING:

DO NOT BOOM DOWN MAST BEYOND 172° WITHOUT
ATTACHING ASSIST CRANE OR MAST CAN FALL.

TO ATTACH ASSEMBLY BLOCK WITH ASSIST CRANE

1. ATTACH ASSIST CRANE WITH SLING TO MAST.
2. LOWER MAST WITH ASSIST CRANE WHILE BOOMING DOWN WITH BOOM HOIST TO LOWER MAST TO HORIZONTAL AND INSTALL BLOCK.
3. RAISE MAST WITH ASSIST CRANE WHILE BOOMING UP WITH BOOM HOIST TO RAISE MAST TO 172° OR LESS.
4. DISCONNECT ASSIST CRANE AND STOW SLING.

TO ASSEMBLE BOOM

(MAST CAN BE USED TO ASSEMBLE ALL RIGGING COMPONENTS)

1. ASSEMBLE BOOM COMPLETE, WITHOUT BUTT.
2. ATTACH ROPE GUIDES, STRAPS, LINKS AND PINS AS REQUIRED.
(SEE BOOM BUTT WIRE ROPE GUIDE ARRANGEMENT-SHEET 4)
3. INSTALL BUTT WITH MAST AND ASSEMBLY BLOCK.

BOOM BUTT INSTALLATION

1. SUPPORT BUTT WITH RIGGING BLOCK, CHAIN SLINGS AND USER SUPPLIED SLINGS AS REQUIRED TO HANG BUTT APPROXIMATELY LEVEL.
POSITION LOCATING PINS AS SHOWN IN "DETAIL E".
2. BOOM UP AND HOIST TO INSERT BUTT HINGE PLATES BETWEEN BOOM HINGE PLATES ON BED AND NOTCH IN BUTT AGAINST LOCATING PIN AS SHOWN IN "DETAIL E".
3. SLOWLY HOIST DOWN TO ALIGN BOOM HINGE HOLES IN BUTT AND ROTATE BED.

NOTE:

THE MAXIMUM BOOM BUTT SIDE PLAY SHOULD CAUSE THE BOOM BUTT HINGE PLATE TO MAKE CONTACT WITH THE INSIDE ROTATING BED LUG, NOT ALLOWING IT TO CONTACT THE OUTSIDE ROTATING BED LUGS.

4. IF NEEDED TO PREVENT CONTACT WITH OUTSIDE ROTATING BED PLATES, INSERT THE SHIM (ITEM 23) BETWEEN THE BOOM BUTT HINGE PLATE AND THE INSIDE ROTATING BED LUGS ON EACH SIDE OF THE MACHINE AS SHOWN IN SECTION G-G.

5. LOCATE THE SHIM TABS TO THE TOP SIDE RESTING ON THE BOOM BUTT HINGE PLATE WITH PIN HOLES ALIGNED.

6. INSERT BOOM HINGE PINS.

7. STOW LOCATING PINS AS SHOWN IN "DETAIL F".

8. LOWER BUTT TO GROUND. REMOVE ASSEMBLY BLOCK AND ATTACH BOOM CLOSING PENDANTS.

WARNING:

REPOSITION LOCATING PINS AS SHOWN IN "DETAIL F" BEFORE OPERATING
BOOM OR DAMAGE TO BUTT, ROTATING BED AND/OR LOCATING PINS WILL OCCUR.

4. ATTACH BOOM BUTT HANDLING PENDANTS TO LUGS ON BOOM BUTT.
BOOM UP TO CLEAR GROUND WITH BUTT.

5. POSITION MACHINE TO ALIGN UPPER PIN CONNECTOR ON BOOM BUTT WITH UPPER PIN CONNECTOR PINS ON FIRST BOOM INSERT AND ENGAGE PINS.

6. SLOWLY BOOM UP TO ALIGN LOWER PIN CONNECTOR HOLES ON BOOM BUTT WITH LOWER PIN CONNECTOR HOLES IN FIRST BOOM INSERT AND INSERT PINS.

WARNING:

DO NOT BOOM UP PAST LOWER CONNECTOR HOLES. IF BOOMING UP CONTINUES
AFTER CONNECTORS BOTTOM OUT OR AFTER PINS ARE INSERTED, DAMAGE TO
MAST AND/OR BOOM BUTT WILL OCCUR.

7. BOOM DOWN TO DISCONNECT BOOM HANDLING PENDANTS FROM BUTT AND STOW PENDANTS.

8. BOOM DOWN TO ATTACH BOOM STRAPS ON MAST TO INSERT STRAPS.

WARNING:

DO NOT BOOM DOWN MAST BEYOND 172° WITHOUT ATTACHING ASSIST CRANE OR MAST CAN FALL.
UNDER SOME CONDITIONS IT MAY BE NECESSARY TO BLOCK UP STRAPS ON INSERT TO AID
STRAP CONNECTION.

9. BOOM UP TO DESIRED BOOM ANGLE.

TO DISASSEMBLE BOOM

1. BOOM DOWN AND SUPPORT BOOM ON BLOCKING.

2. DISCONNECT MAST STRAPS FROM BOOM INSERT STRAPS.

3. CONNECT BOOM BUTT HANDLING PENDANTS FROM MAST TO BOOM BUTT LUGS.

4. BOOM UP TO REMOVE SLACK FROM BUTT HANDLING PENDANTS.

WARNING:

DO NOT BOOM UP TO PUT EXCESSIVE TENSION INTO BUTT HANDLING PENDANTS.
(ENOUGH TENSION IS REQUIRED TO SUPPORT BOOM BUTT WHEN LOWER PINS ARE REMOVED).
LIFTING BOOM WITH HANDLING PENDANTS WILL DAMAGE MAST AND /OR BOOM BUTT.

5. REMOVE LOWER BUTT TO INSERT PINS AND BOOM DOWN TO BLOCKING TO DISENGAGE UPPER
BOOM BUTT TO INSERT PINS.

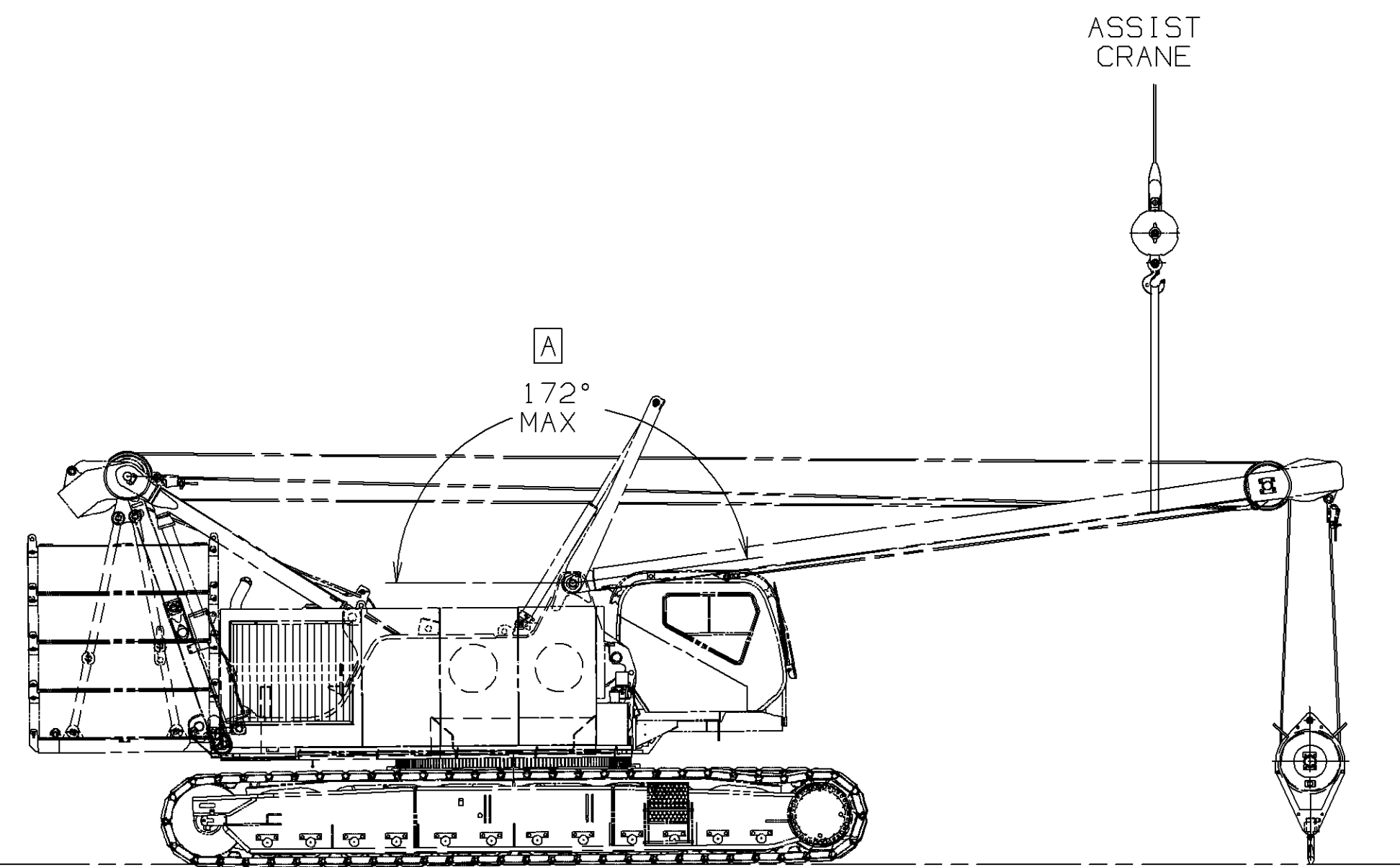
WARNING:

BOOM MUST BE PROPERLY BLOCKED TO PREVENT SHIFTING DURING PIN REMOVAL.

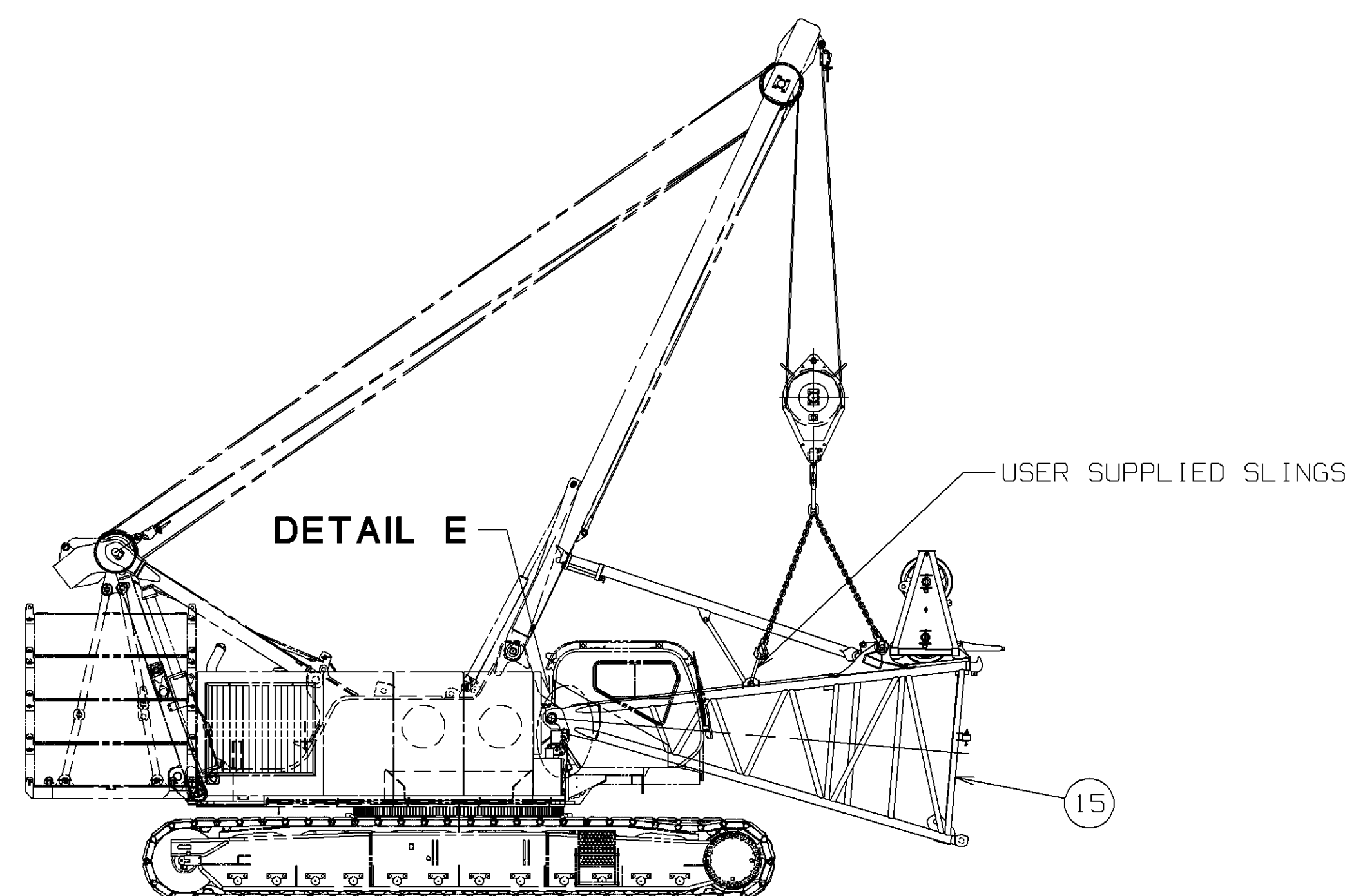
6. SLOWLY BACK AWAY FROM BOOM.

7. REMOVE BOOM BUTT FROM ROTATING BED.

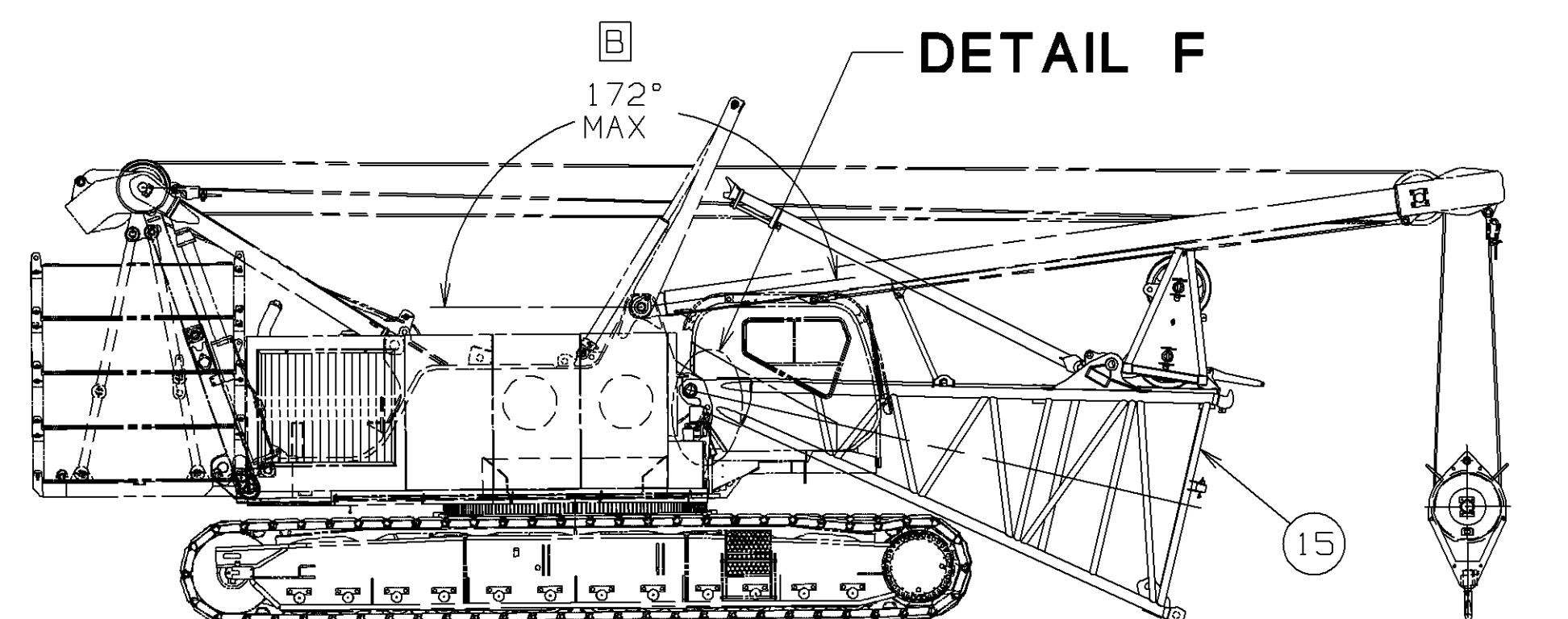
8. DISASSEMBLE BOOM WITH MAST.



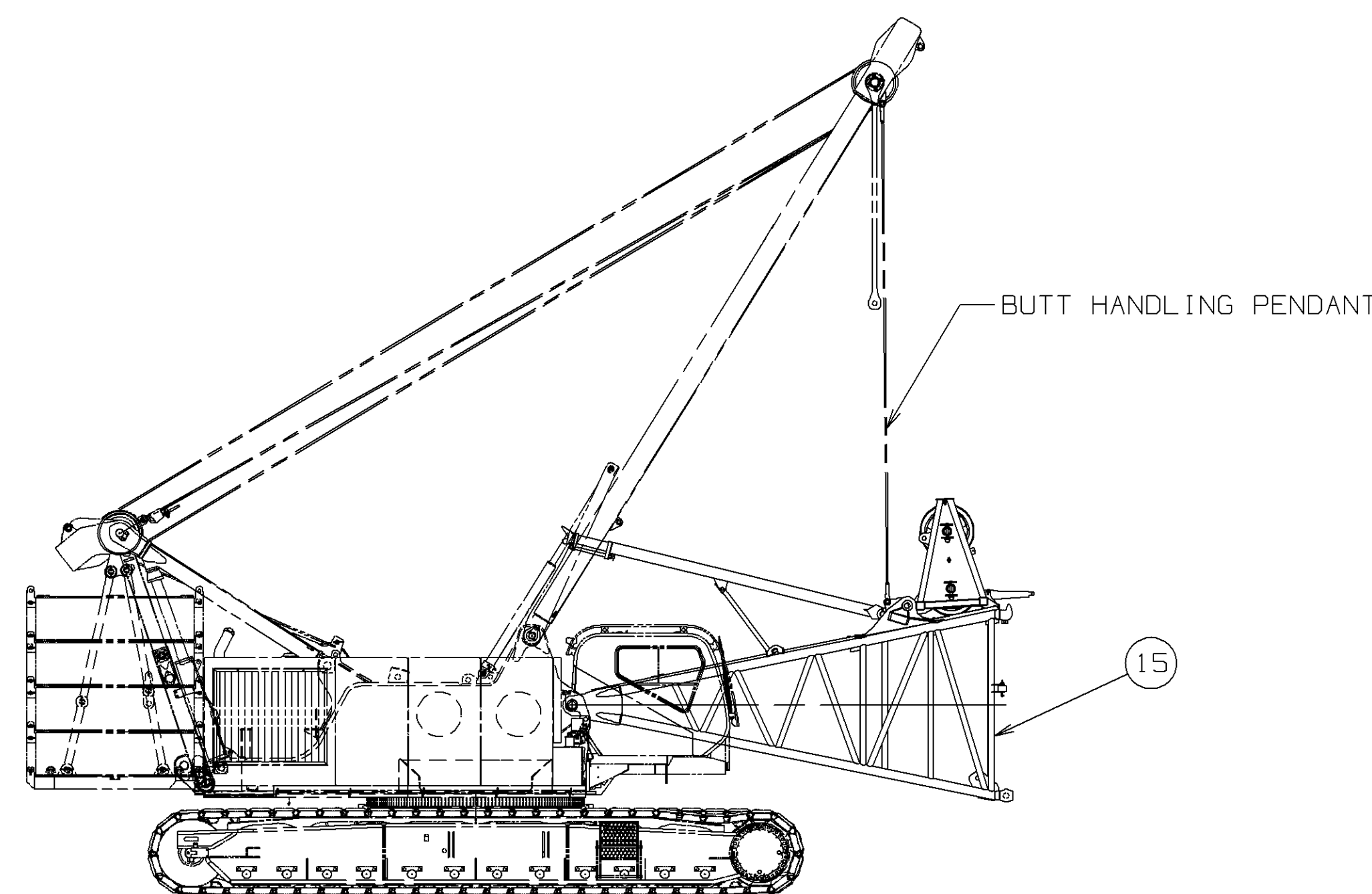
MAXIMUM MAST LOWERING ANGLE WITHOUT
ASSIST FOR ASSEMBLY BLOCK HOOKUP



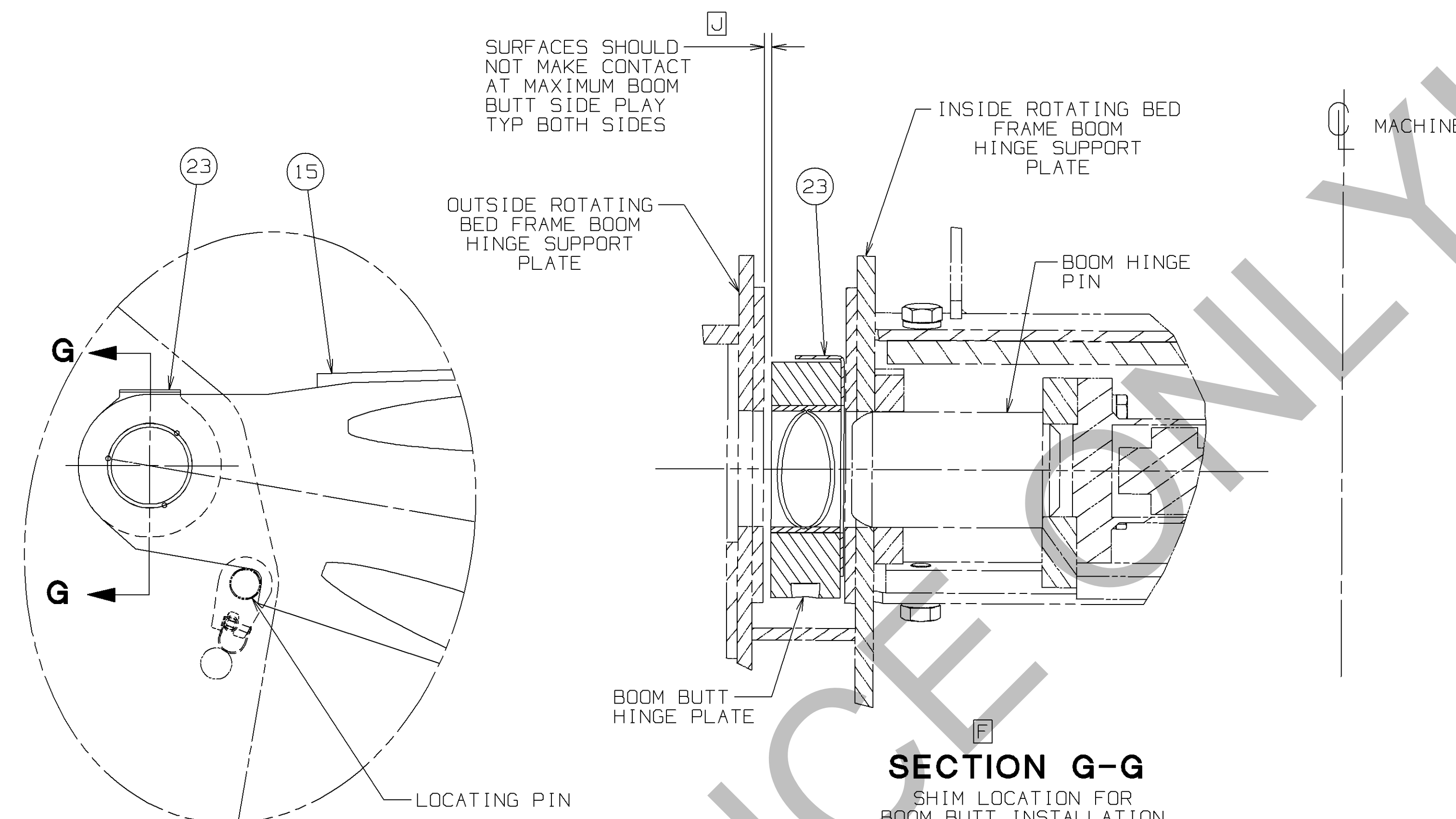
BOOM BUTT INSTALLATION WITH MAST



MAXIMUM MAST LOWERING ANGLE WITHOUT ASSIST
FOR DISASSEMBLY BLOCK HOOKUP



BOOM BUTT HANDLING WITH MAST

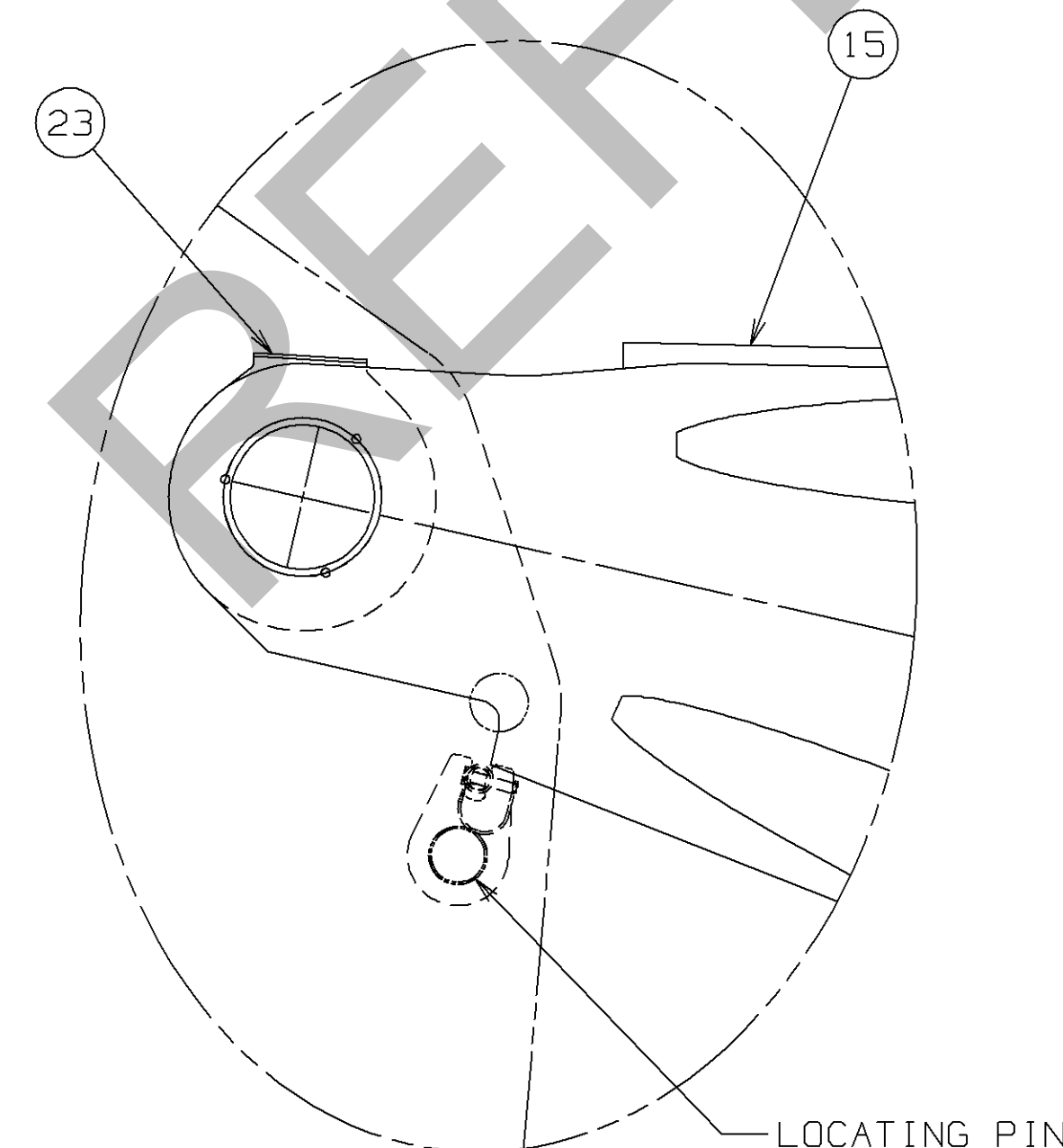


SECTION G-G

SHIM LOCATION FOR
BOOM BUTT INSTALLATION
SCALE: 3=1FT

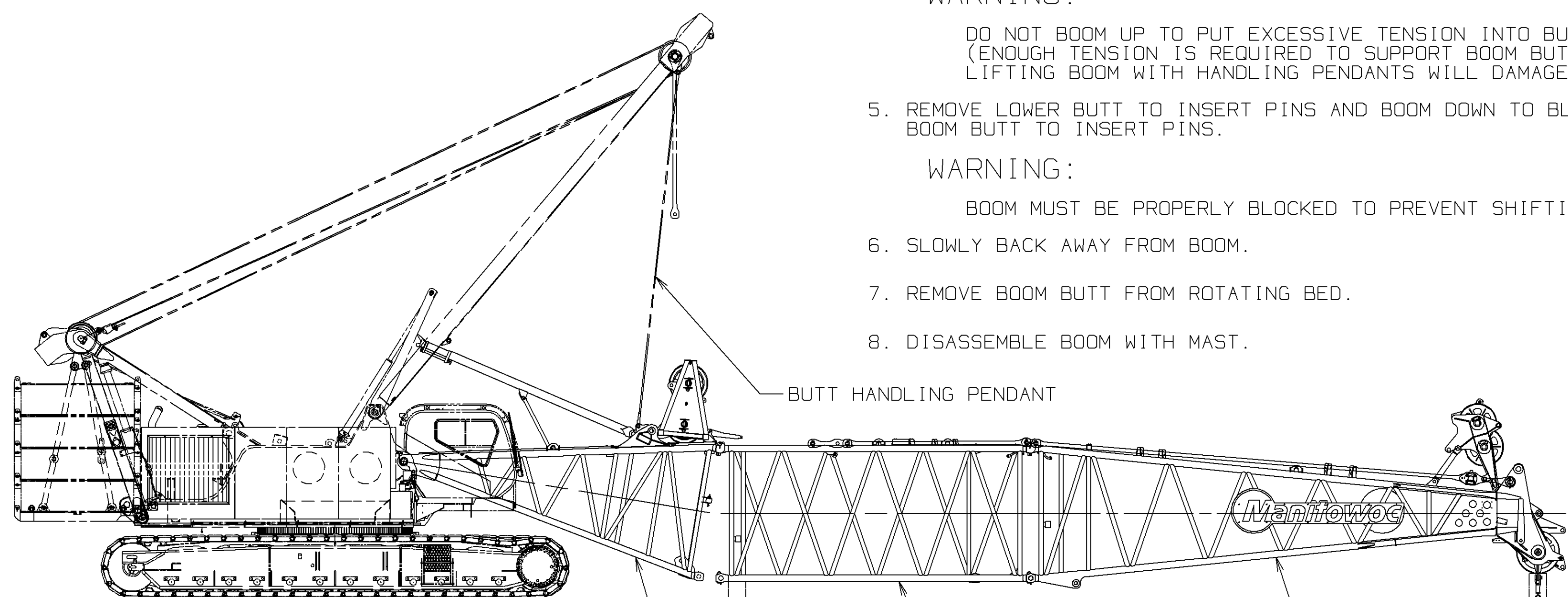
DETAIL E

PIN LOCATION FOR
BOOM BUTT INSTALLATION
SCALE: 2=1FT

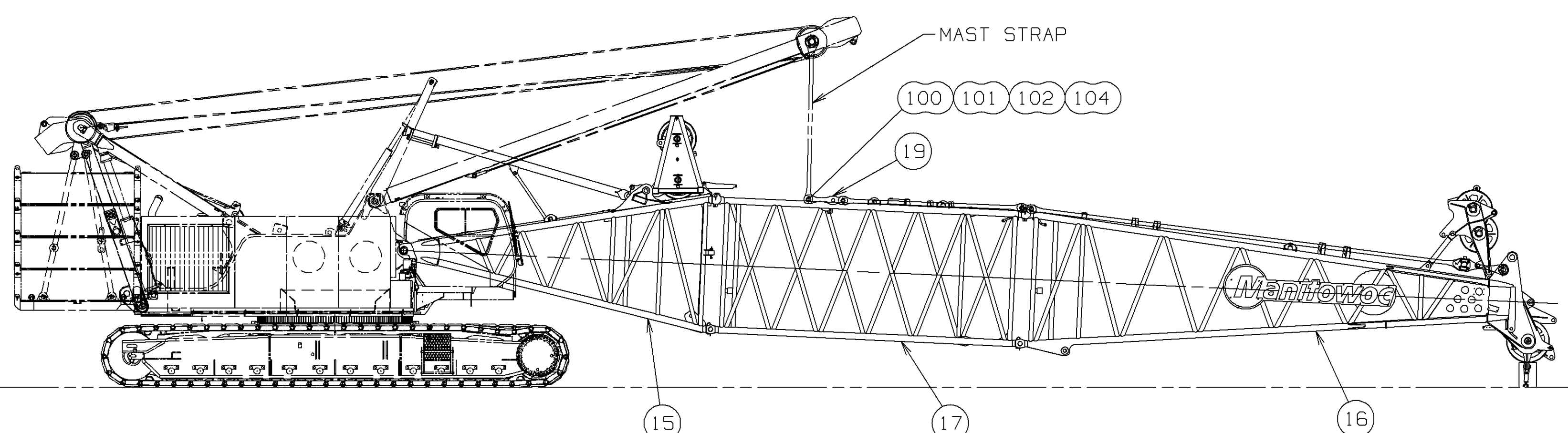


DETAIL F

PIN LOCATION
DURING OPERATION
SCALE: 2=1FT



BOOM CLOSING



STRAP HOOKUP

TOLERANCE UNLESS OTHERWISE SPECIFIED				SCALE		MATERIAL	MATERIAL	CODE NO.	OR DES. NO.	REV.
DECIMAL PLACES	FABRICATION	MACHINING	WELDING	1/8"=1'-0"	1/4"=1'-0"					
(1) PLACE	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC
(2) PLACE	± 0.00	± 0.00	± 0.00	± 0.00	± 0.00	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC
(3) PLACE	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC
ANGLES	± 1.0°	± 0.5°	± 0.5°	± 0.5°	± 0.5°	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC	MANITOWOC

DATE	01-03-07
REV.	FD
MANITOWOC Cranes, Inc.	BOOM ASSY
Manitowoc, Wisconsin	# 76
MODEL 14000	
APP HCS	

PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 6829103794	
DATE	01-03-07
REV.	LTR.
	FD
DWG. NO.	
A16106	

