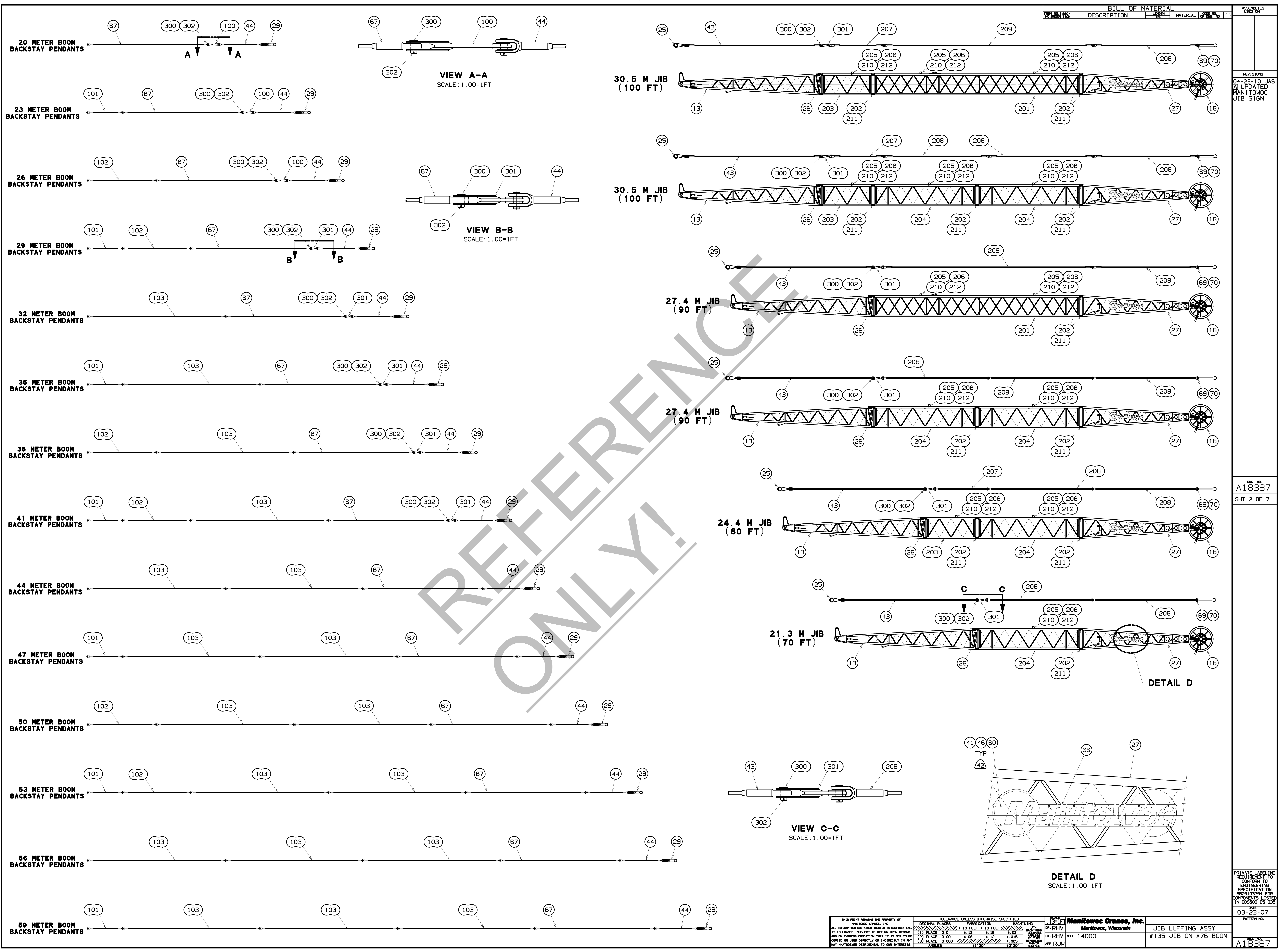
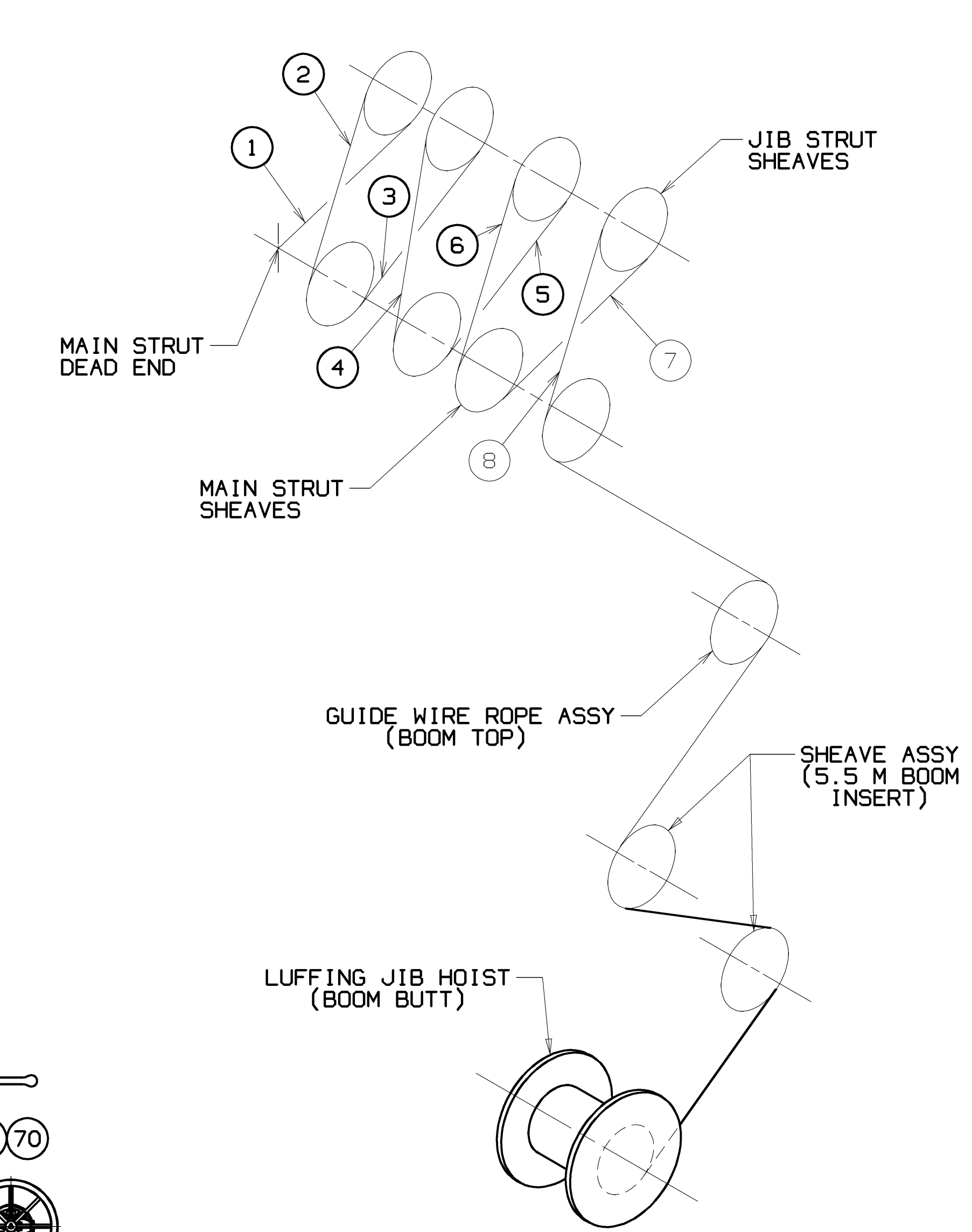
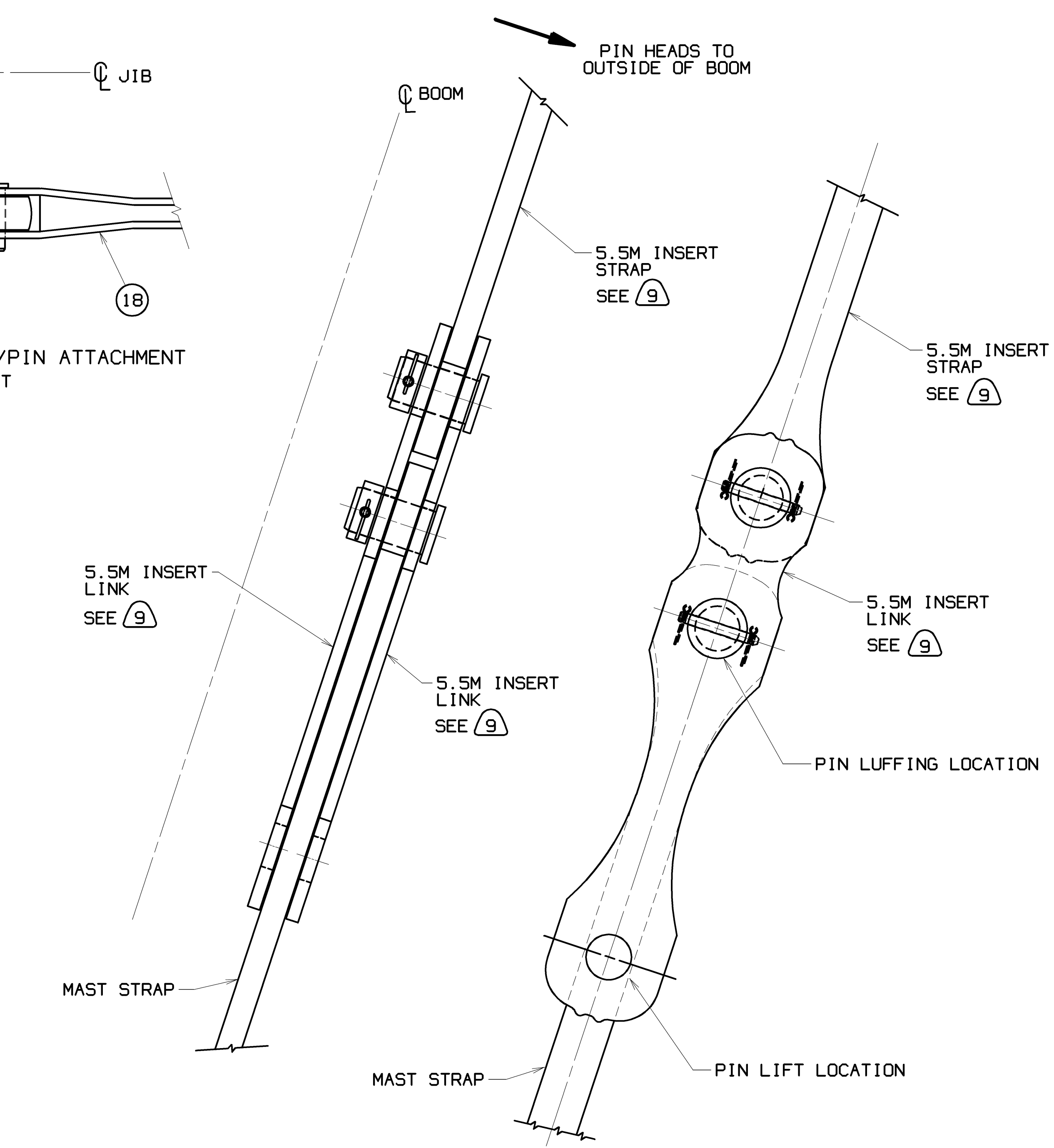
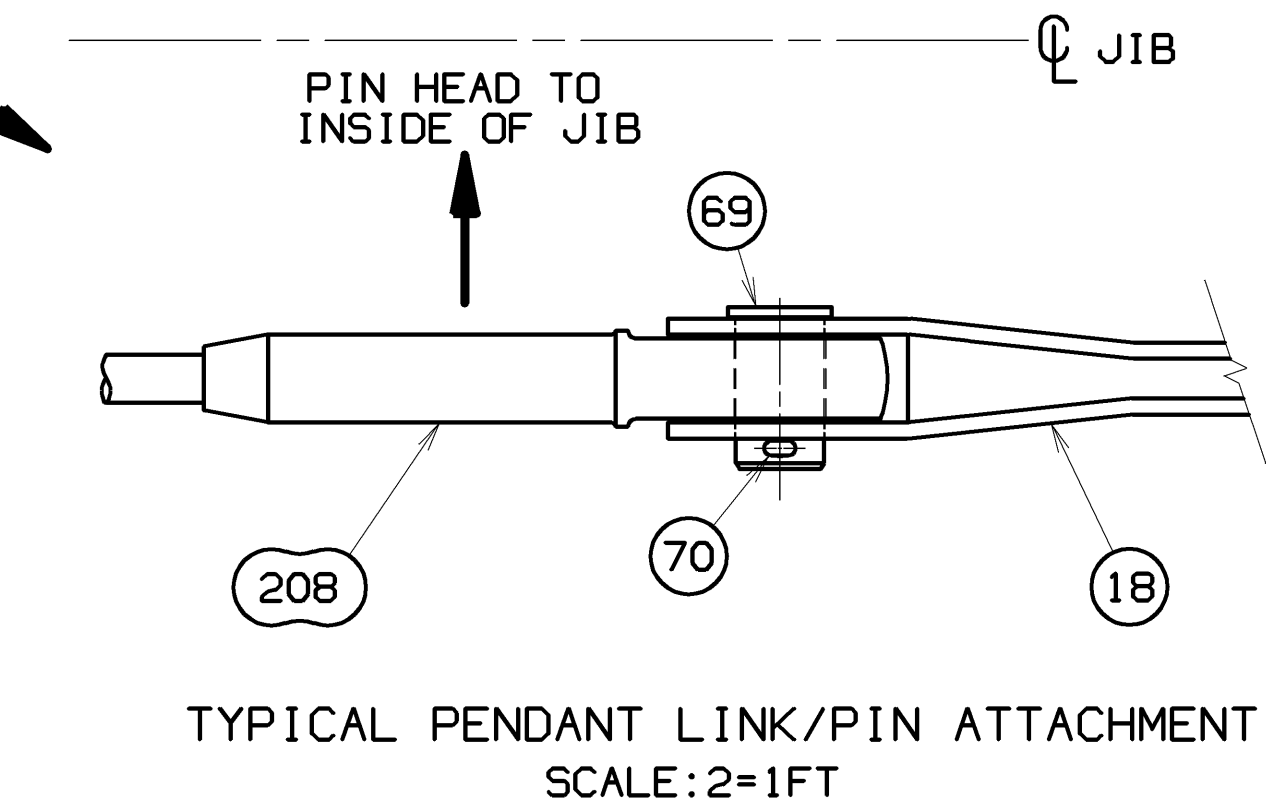
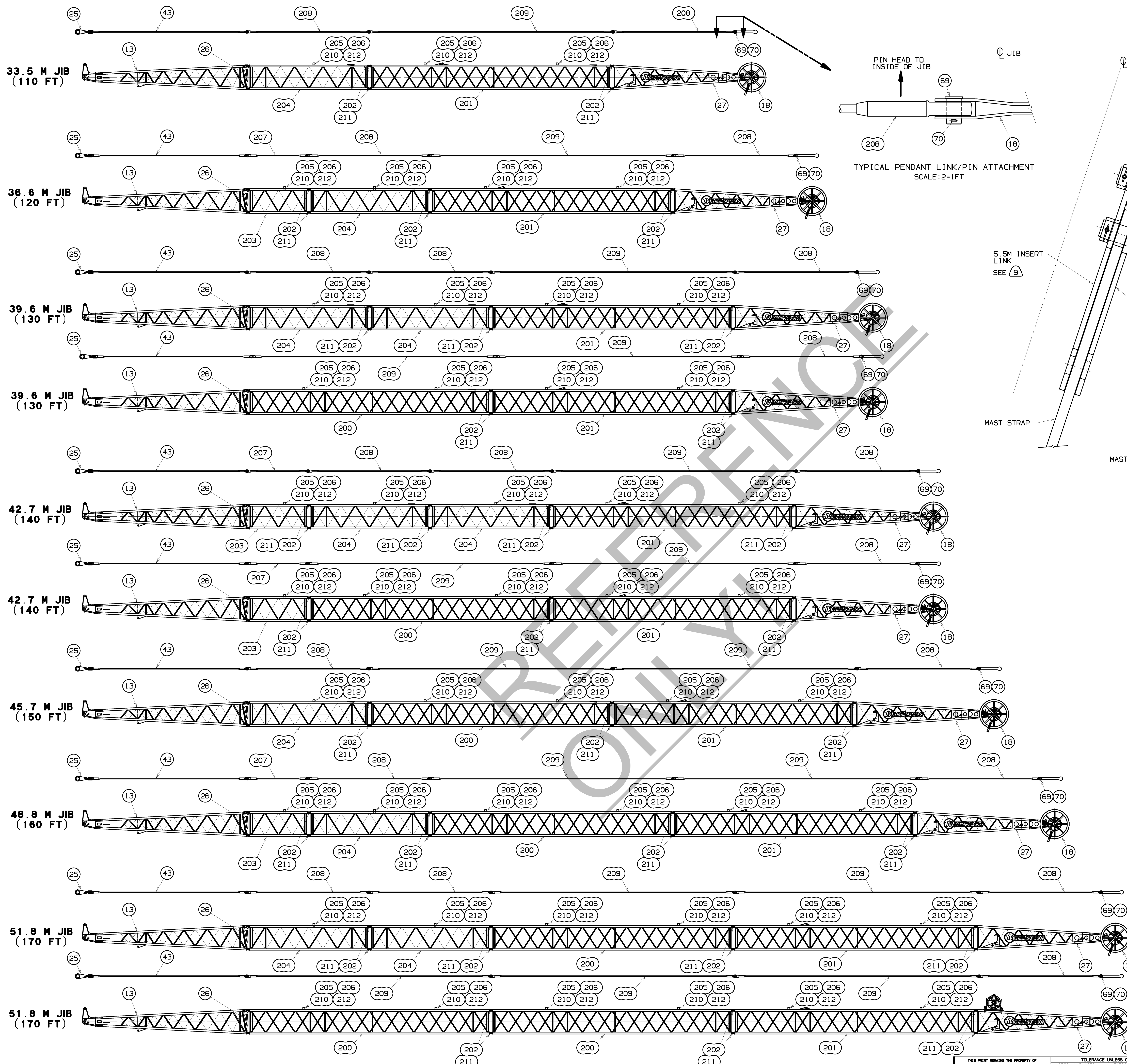




BILL OF MATERIAL				ASSEMBLIES USED ON
ITEM NO.	REV.	DESCRIPTION	MATERIAL	QTY
REVISIONS				
04-23-10 JAS				
A1 UPDATED				
MANITOWOC				
JIB SIGN				
Dwg. No.				
A18387				
SHT 2 OF 7				
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 6829103794				
DATE				
03-23-07				
PATTERN NO.				
JIB LUFFING ASSY				
#135 JIB ON #76 BOOM				
A18387				
SHT 2 OF 7				



770 FT OF 1.00 DIA
6 X 26 WS EIP (ITEM 63) (20,000# RATED LIVE PULL)

OR

770 FT OF 1.00 DIA
DYFORM 34 MAX (ITEM 604)

BILL OF MATERIAL				ASSEMBLIES USED ON	
ITEM NO. (NO. PREFIX)	SEC. TION	DESCRIPTION	QTY IN	MATERIAL	CODE NO. OR TAG. NO.
REVISIONS					
05-10-07 A163 WAS 04-23-10 B1 UPDATED MANITOWOC JIB SIGN					
DATE: 03-23-07					
PATTERN NO.					
PRIVATE LABEL REQUIREMENT CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 6829103794					
DATE: 03-23-07					
PATTERN NO.					
DATE: 03-23-07					
PATTERN NO.					

PIN HEADS TO OUTSIDE OF BOOM

5.5M INSERT STRAP SEE (9)

5.5M INSERT STRAP SEE (9)

5.5M INSERT LINK SEE (9)

PIN LUFFING LOCATION

PIN LIFT LOCATION

POSITION
G JIB #135
3=1FT

2

1

3

6

5

7

4

8

JIB STRUT SHEAVES

GUIDE WIRE ROPE ASSY (BOOM TOP)

SHEAVE ASSY (5.5 M BOOM INSERT)

LUFFING JIB HOIST (BOOM BUTT)

LUFFING JIB HOIST REEVEING DIAGRAM FOR 8 PART LINE

770 FT OF 1.00 DIA
6 X 26 WS EIP (ITEM 63) (20,000# RATED LIVE PULL)

OR

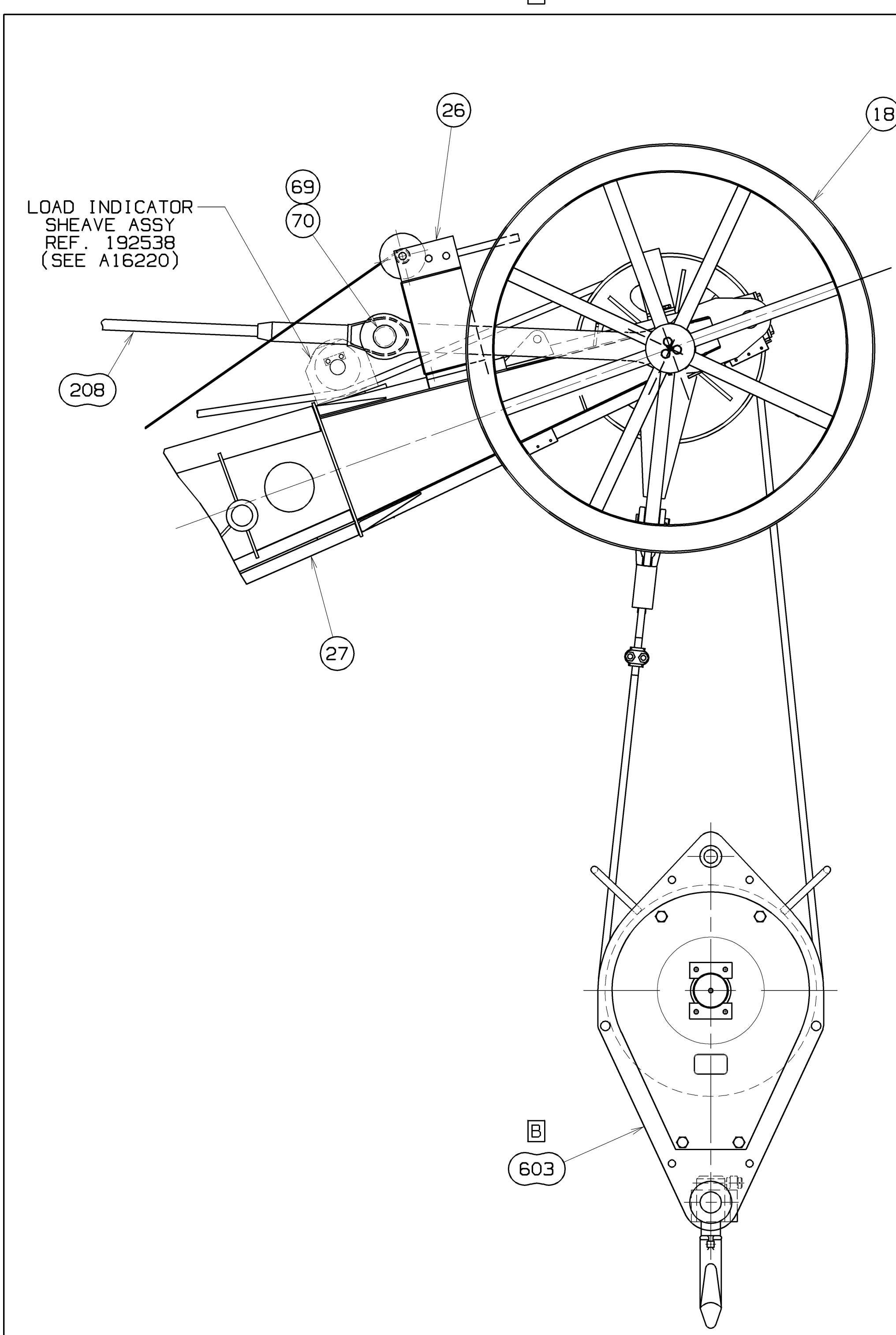
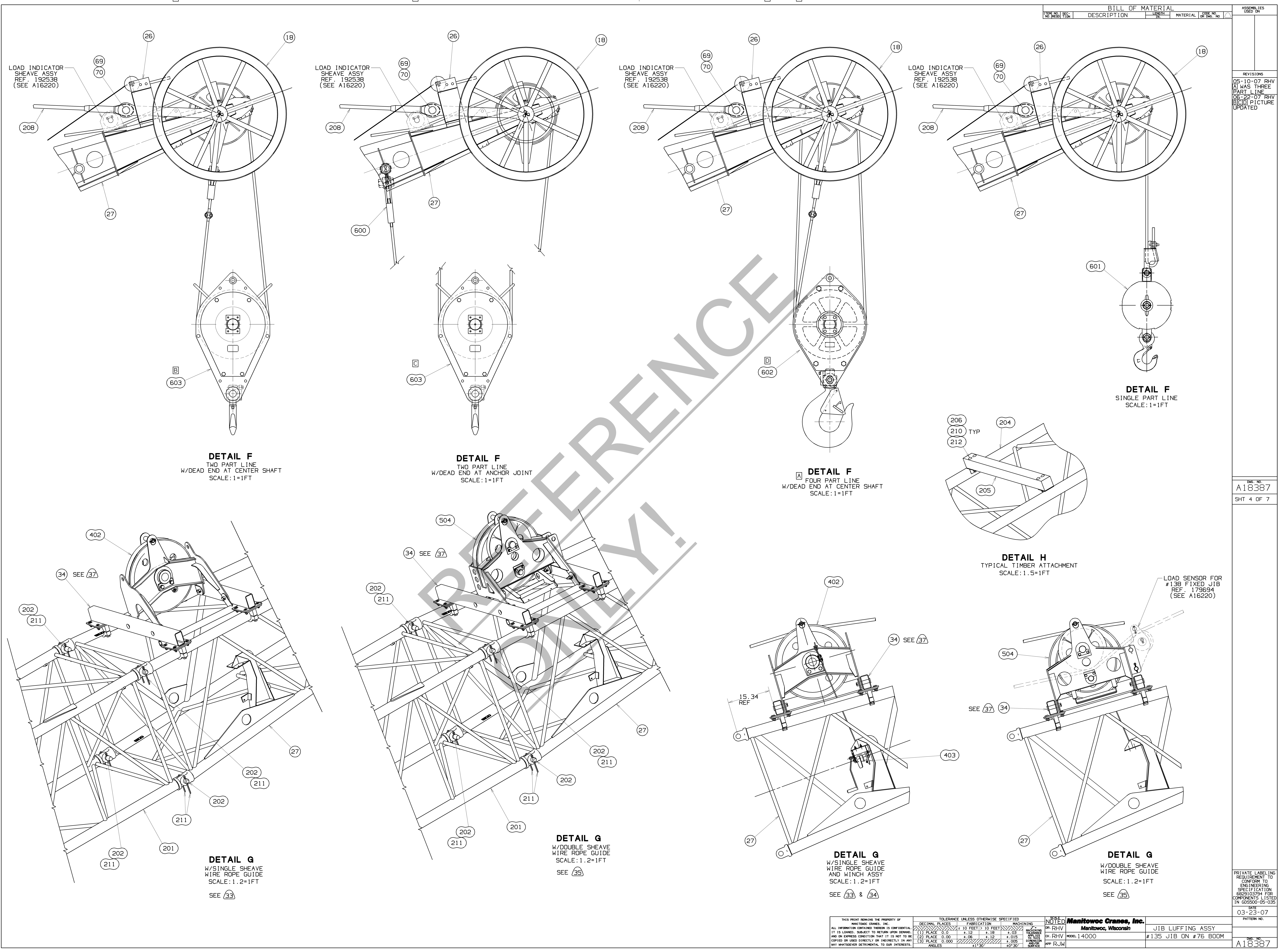
770 FT OF 1.00 DIA
DYFORM 34 MAX (ITEM 604)

DATE: 03-23-07	PATTERN NO.	DATE: 03-23-07	PATTERN NO.
PRIVATE LABEL REQUIREMENT CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 6829103794		PRIVATE LABEL REQUIREMENT CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 6829103794	
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PATTERN NO.		PATTERN NO.	
DATE			

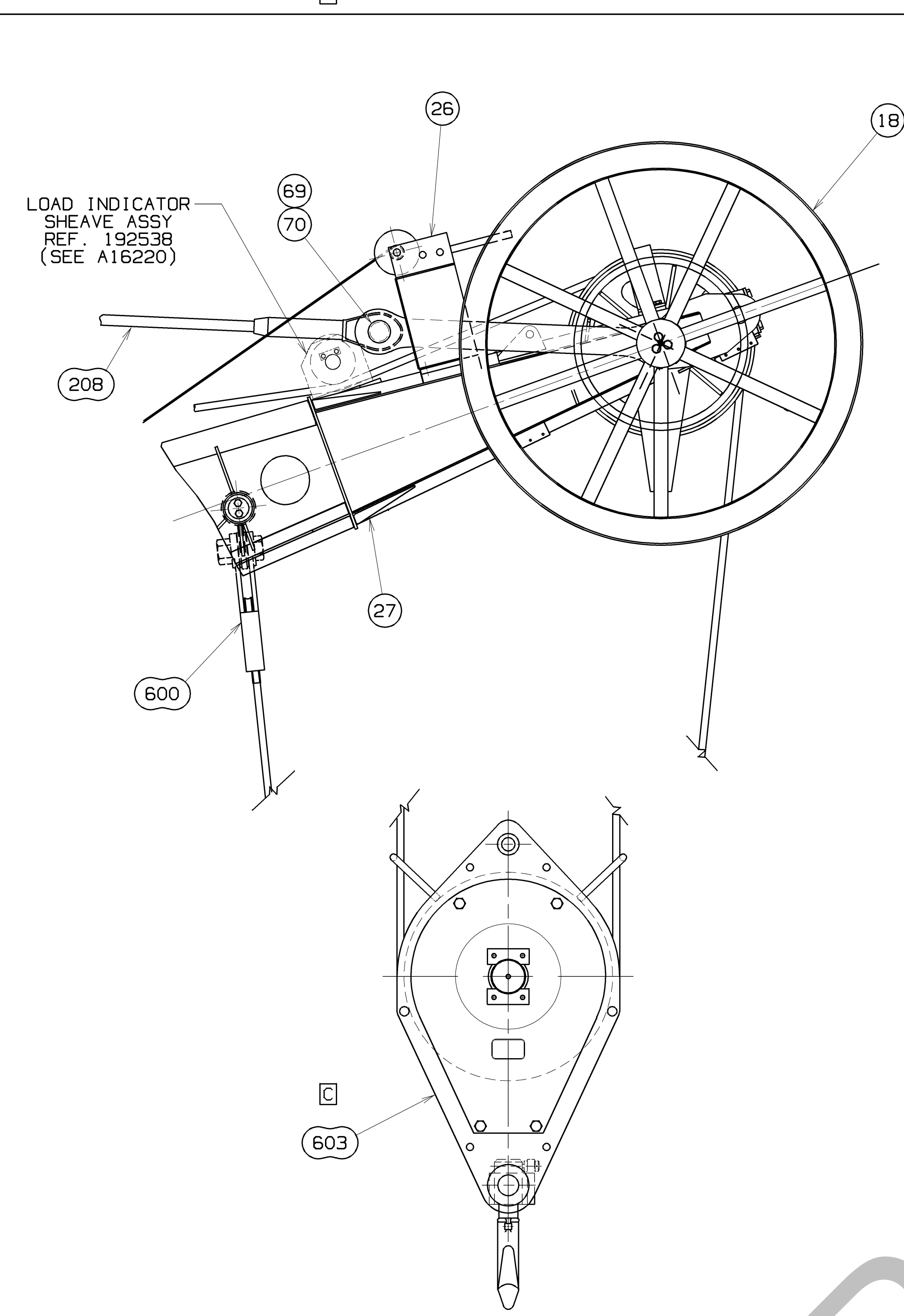
THIS PRINT REMAINS THE PROPERTY OF
MANITOWOC CRANES, INC.
ALL INFORMATION CONTAINED THEREIN IS CONFIDENTIAL.
IT IS LOANED, SUBJECT TO RETURN UPON DEMAND,
AND ON EXPRESS CONDITION THAT IT IS NOT TO BE
COPIED OR USED DIRECTLY OR INDIRECTLY IN ANY
MANNER DETRIMENTAL TO OUR INTERESTS.

DECIMAL PLACES	FABRICATION	MACHINING
(1) PLACE 0.0	+0.12	+0.18
(2) PLACE 0.00	+0.06	+0.12
(3) PLACE 0.000	+0.03	+0.06

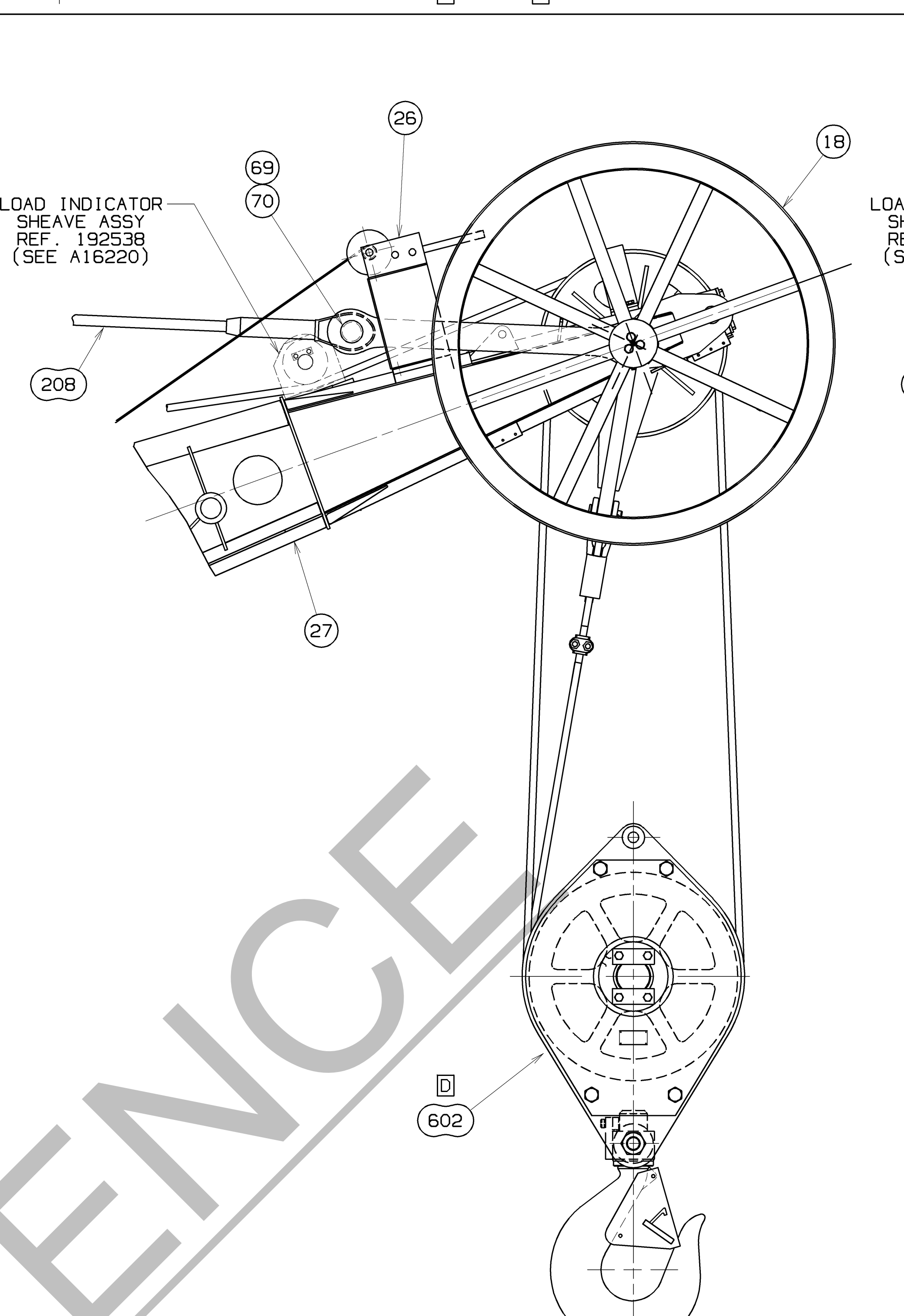
Manitowoc Cranes, Inc.		JIB LUFFING ASSY	
DR. RHV	MODEL 14000	#135 JIB ON #76 BOOM	A18387



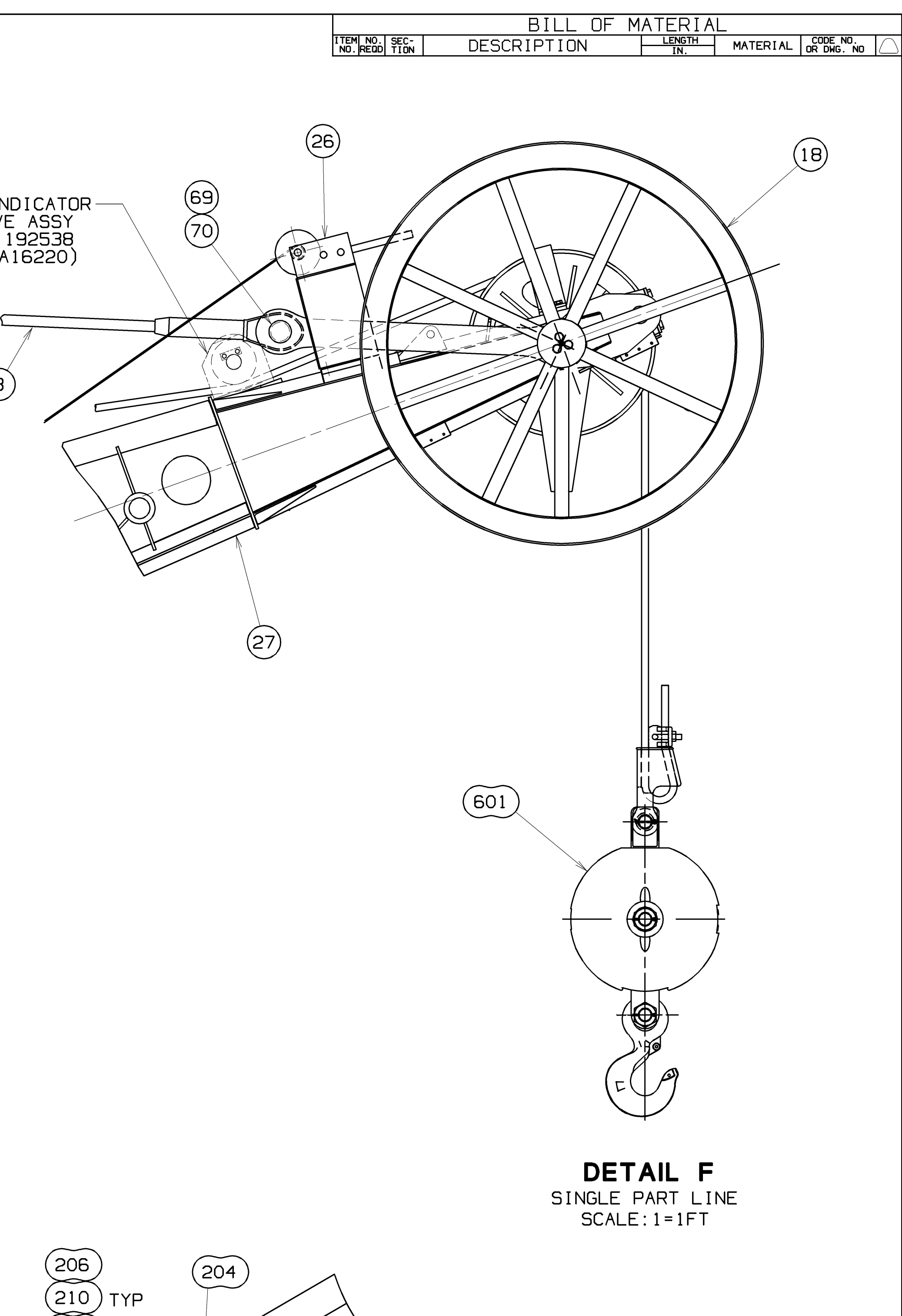
DETAIL F
TWO PART LINE
W/DEAD END AT CENTER SHAFT
SCALE: 1=1FT



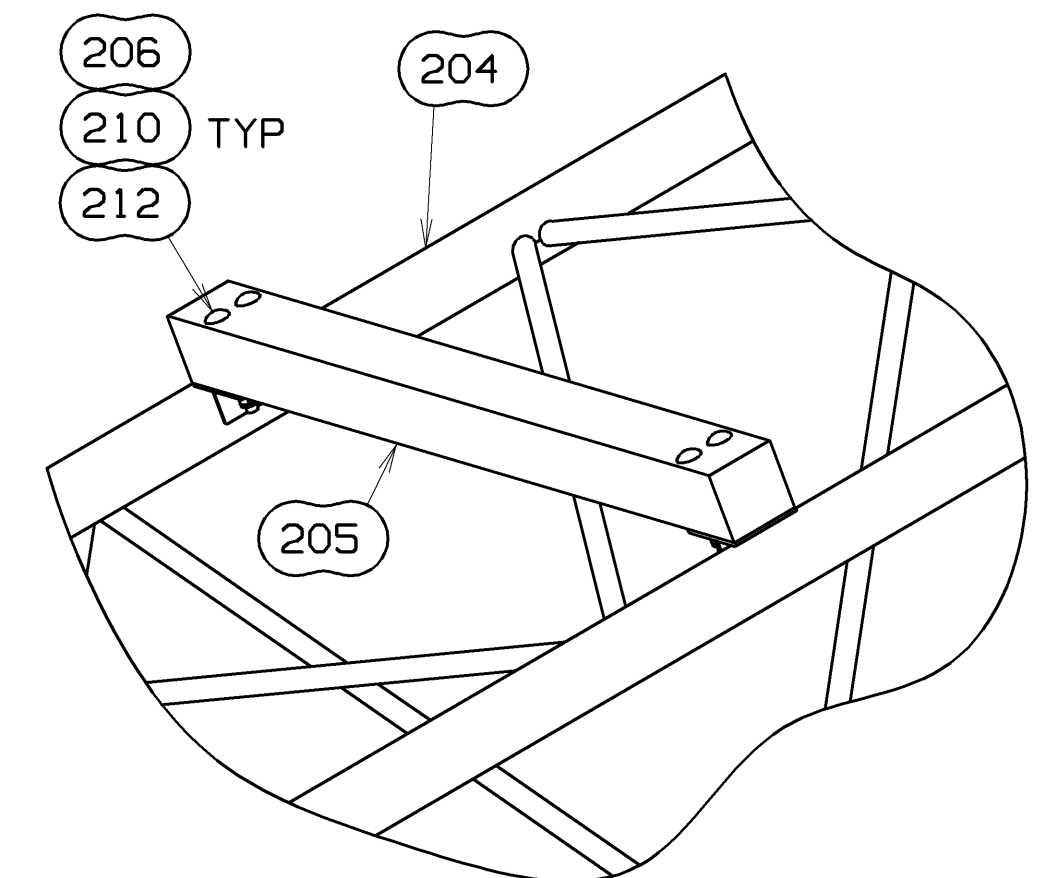
DETAIL F
TWO PART LINE
W/DEAD END AT ANCHOR JOINT
SCALE: 1=1FT



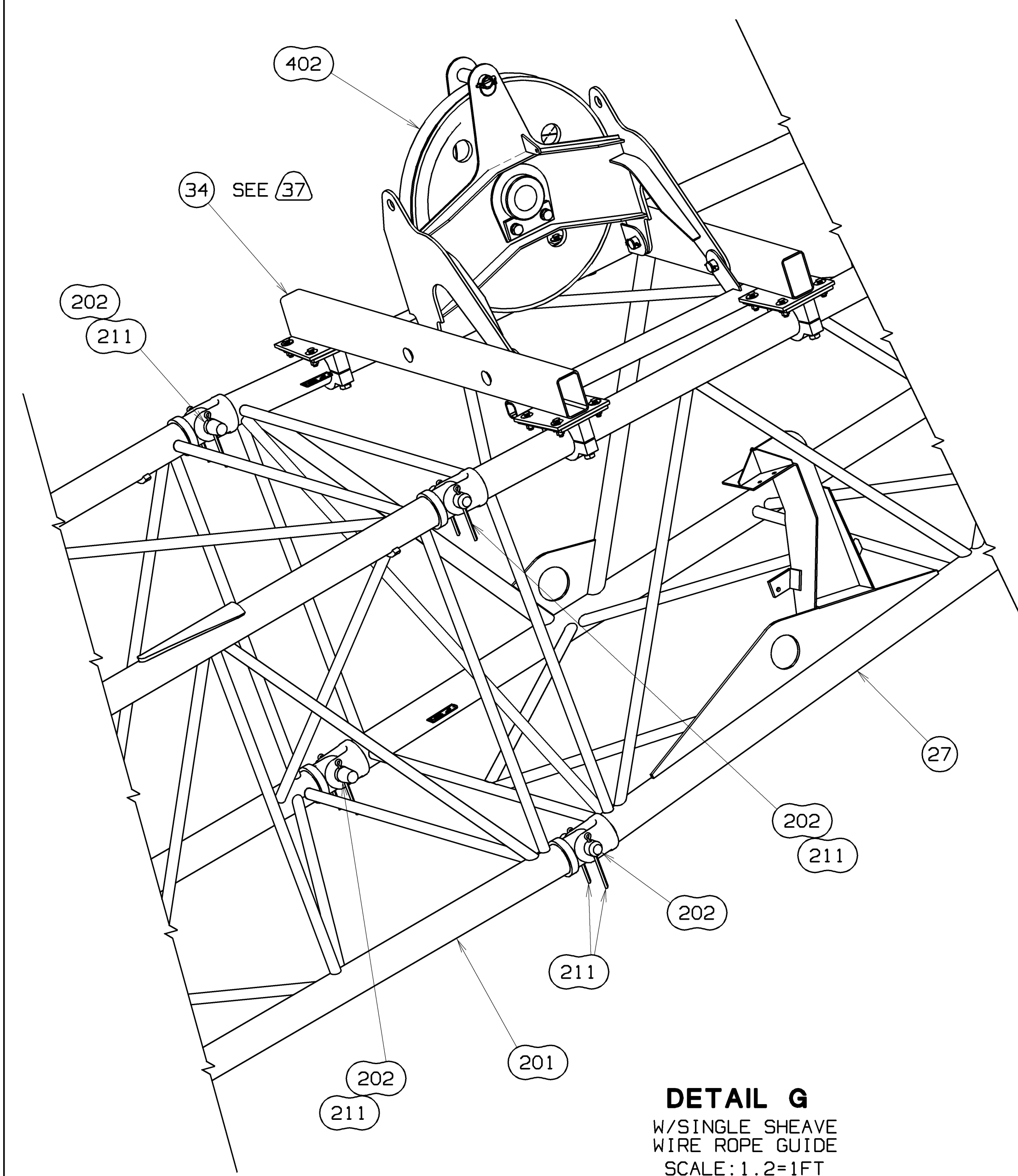
DETAIL F
FOUR PART LINE
W/DEAD END AT CENTER SHAFT
SCALE: 1=1FT



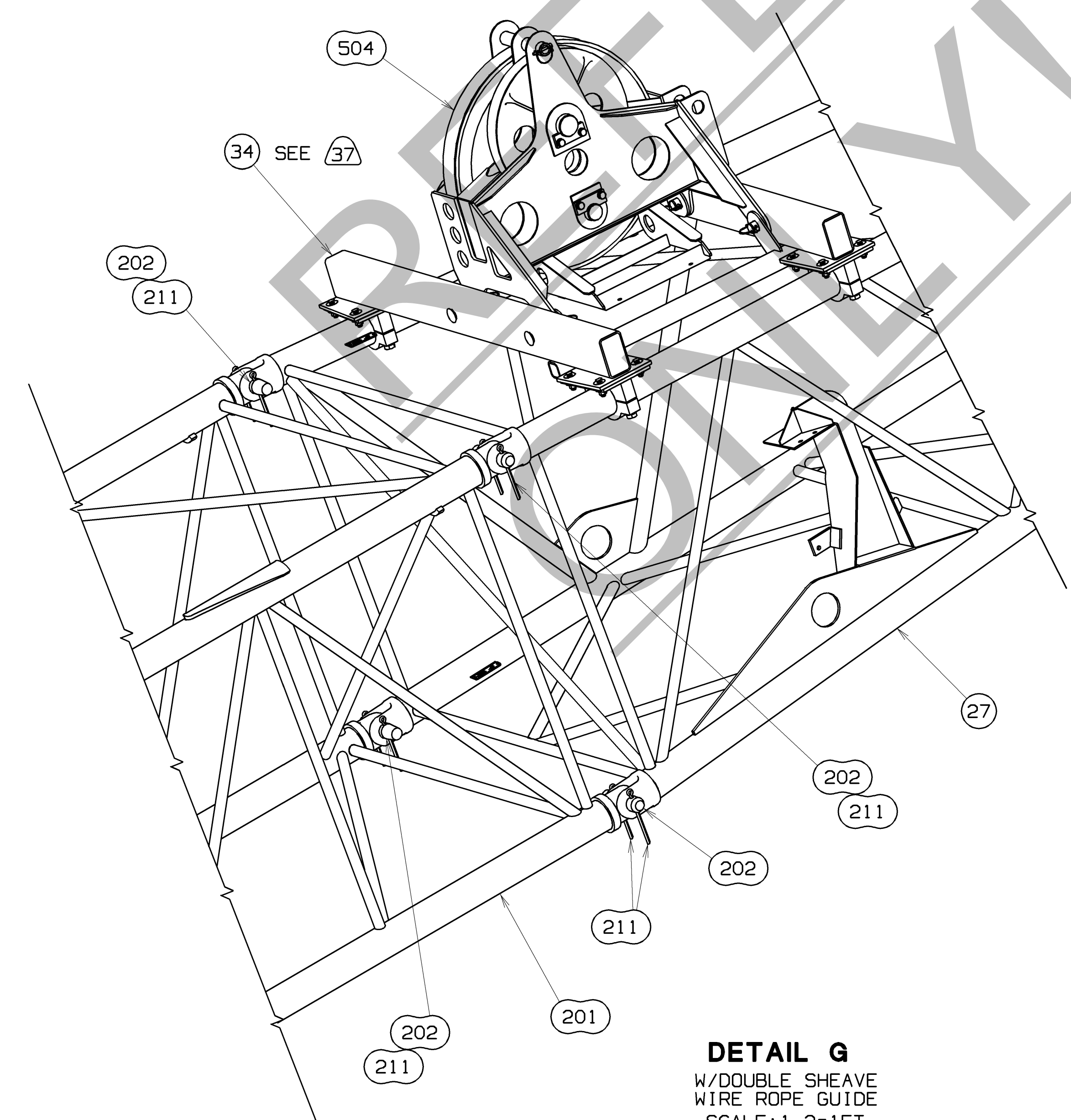
DETAIL F
SINGLE PART LINE
SCALE: 1=1FT



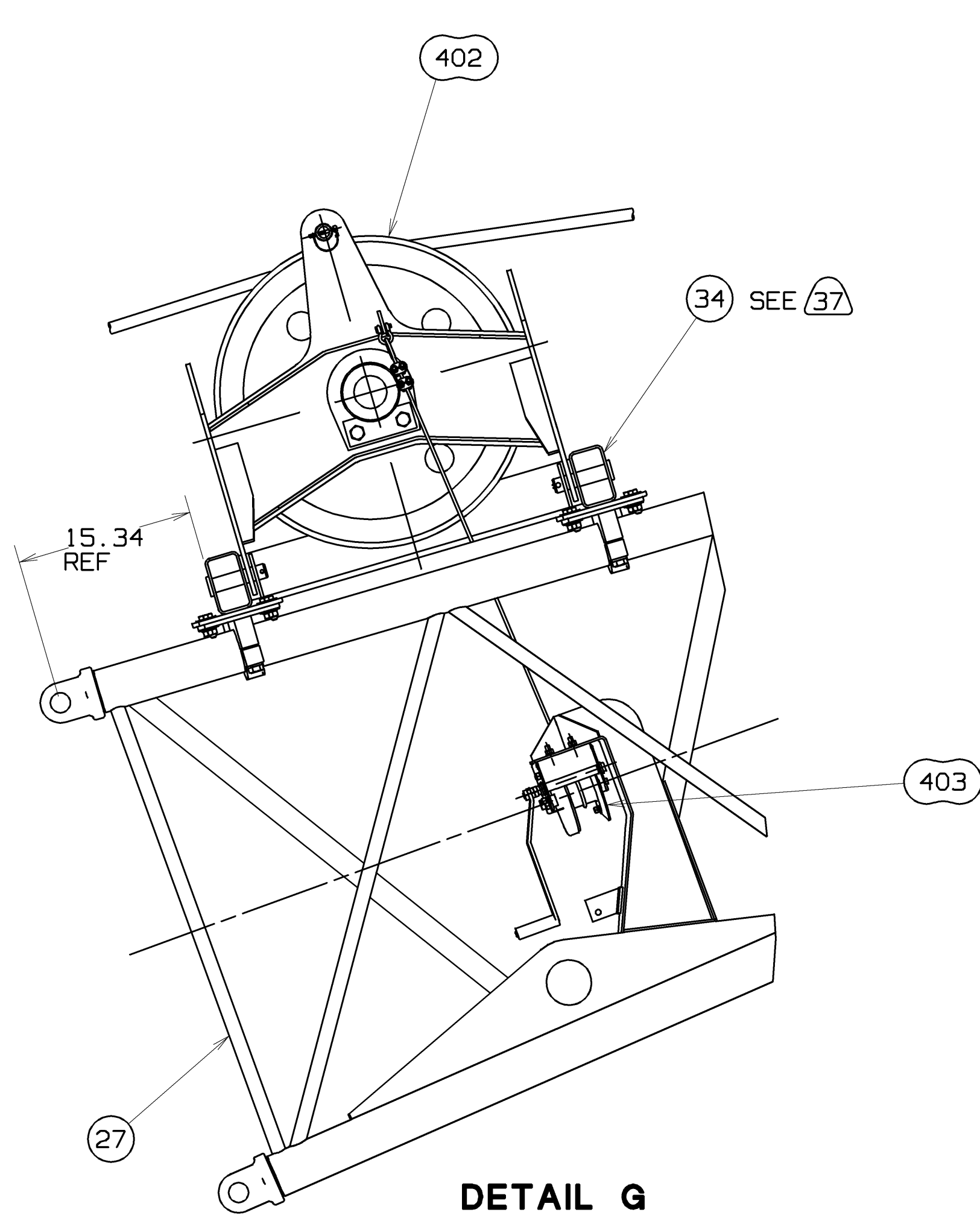
DETAIL H
TYPICAL TIMBER ATTACHMENT
SCALE: 1.5=1FT



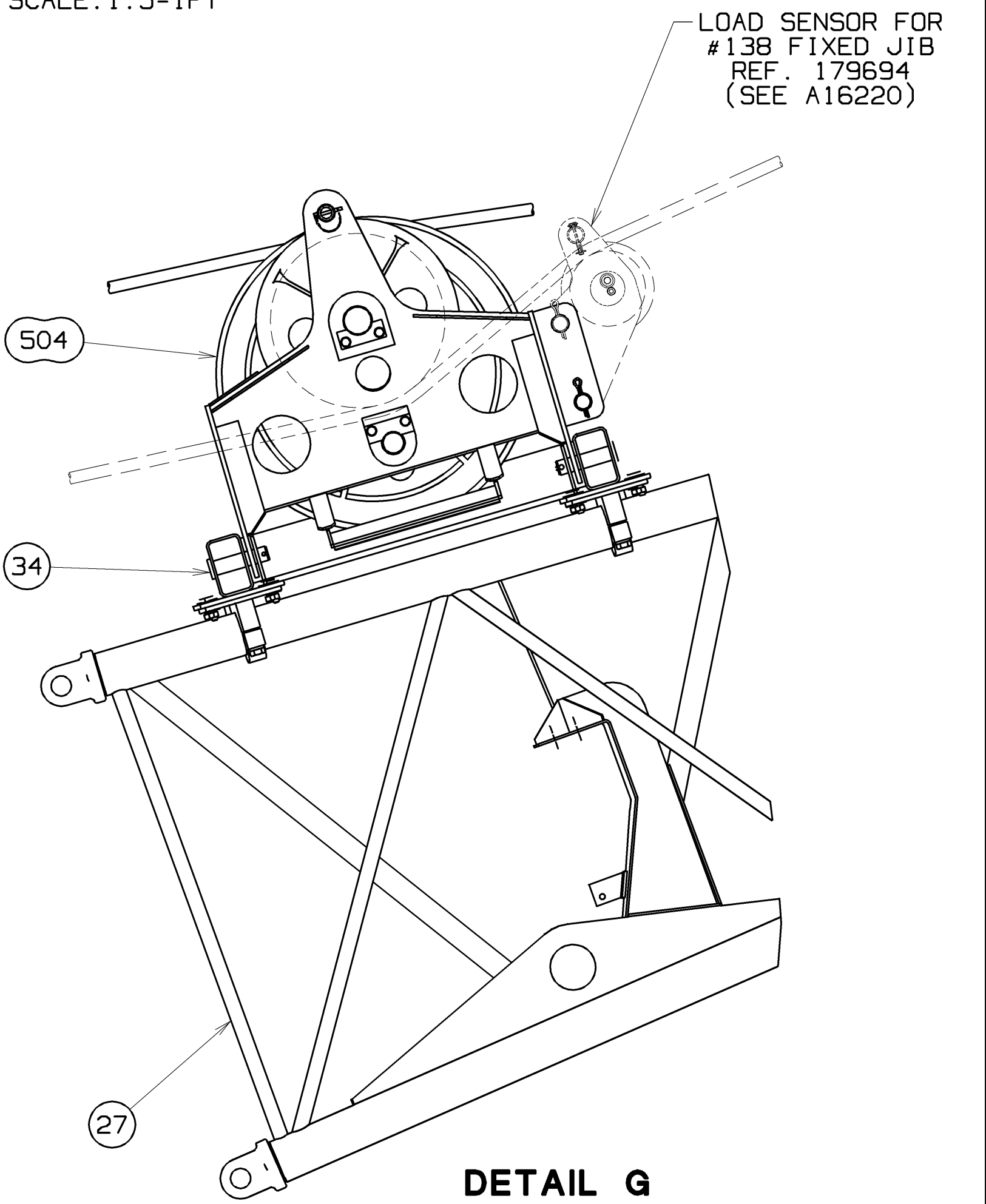
DETAIL G
W/SINGLE SHEAVE
WIRE ROPE GUIDE
SCALE: 1.2=1FT
SEE 33



DETAIL G
W/DOUBLE SHEAVE
WIRE ROPE GUIDE
SCALE: 1.2=1FT
SEE 35



DETAIL G
W/SINGLE SHEAVE
WIRE ROPE GUIDE
AND WINCH ASSY
SCALE: 1.2=1FT
SEE 33 & 34



DETAIL G
W/DOUBLE SHEAVE
WIRE ROPE GUIDE
SCALE: 1.2=1FT
SEE 35

BILL OF MATERIAL					ASSEMBLIES USED ON	
ITEM NO.	REV.	DESCRIPTION	QUANTITY	MATERIAL	CODE NO.	DATE

REVISIONS
05-10-07 RHV A) WAS THREE PART LINE 06-22-07 RHV B) C) PICTURE UPDATED

DWG. NO. A18387
SHT 4 OF 7

PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 68290-06-026
DATE 03-23-07
PATTERN NO.
DWG. NO. A18387

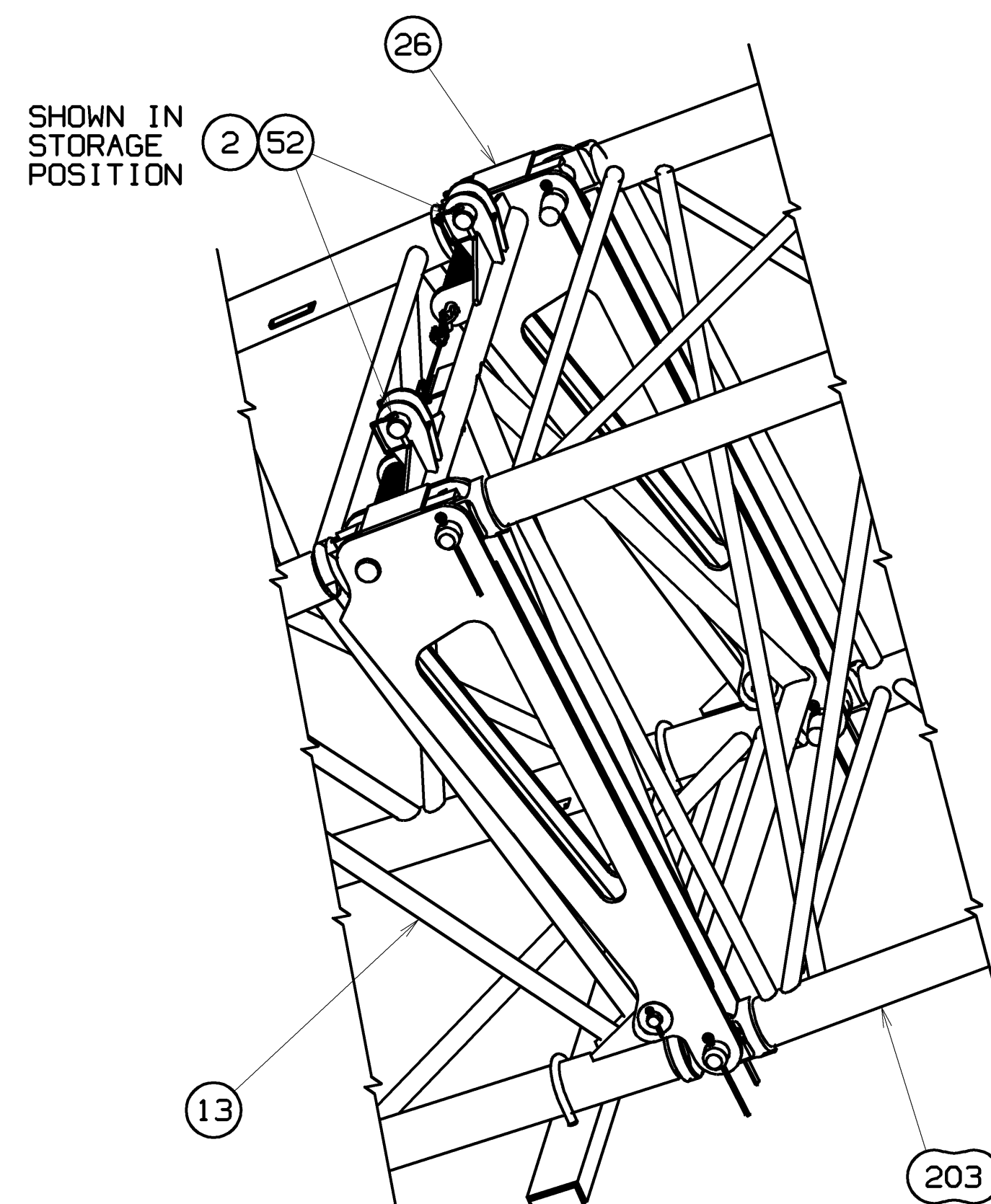
TOLERANCE UNLESS OTHERWISE SPECIFIED		FABRICATION		MACHINING	
DECIMAL PLACES		10 FEET	10 FEET	10 FEET	10 FEET
(1) PLACE 0.0	±.12	±.18	±.05	±.05	±.05
(2) PLACE 0.00	±.06	±.12	±.015	±.015	±.015
(3) PLACE 0.000	±.005	±.005	±.005	±.005	±.005
ANGLES	±.30°	±.30°	±.30°	±.30°	±.30°

MANITOWOC	NOTED	DR. RHV	MANITOWOC	JIB LUFFING ASSY
CK. RHV	MODEL 14000	#135 JIB ON #76 BOOM		
APP. RJW				

MAIN STRUT ERECTION PROCEDURE

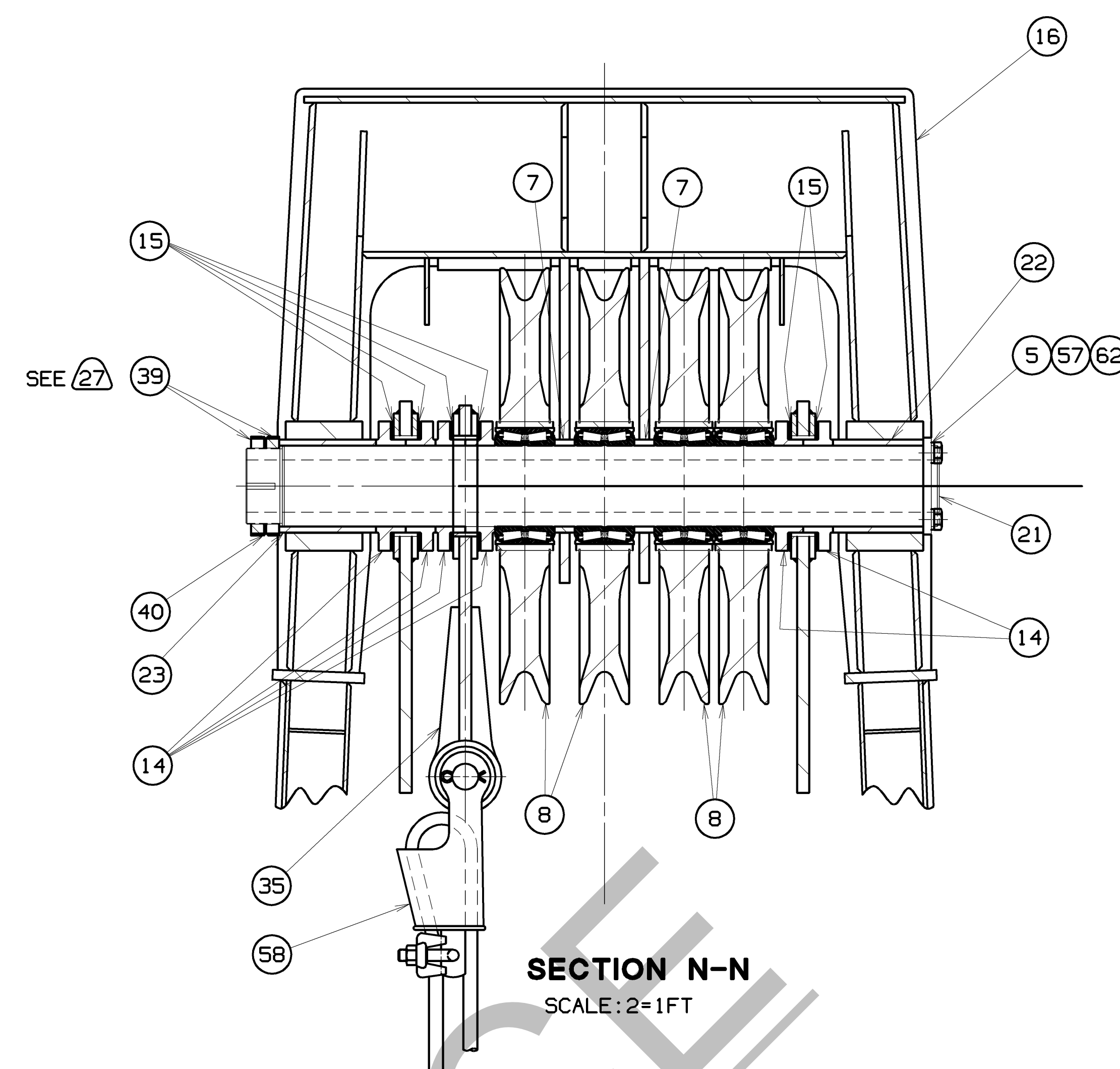
DANGER: DO NOT STAND UNDER MAIN STRUT DURING ERECTION.
MAKE SURE JIB STRUT IS PINNED TO THE JIB BUTT
BEFORE ATTEMPTING MAIN STRUT ERECTION.

1. ASSEMBLE HEAD SECTION OF MAIN STRUT (ITEM 16) - SEE SECTION N-N. ATTACH BASIC BACKSTAY PENDANTS (ITEMS 44) TO LINK SUB-ASSEMBLY (ITEM 29) - SEE VIEW P-P. USE PINS (073045 REF.) TO ATTACH FEMALE END OF STRUT STOP TUBE ASSEMBLIES (ITEMS 30) TO MAIN STRUT. REMOVE PINS (563912 REF.) AND INSTALL IN STORAGE LOCATION - SEE VIEW Q-Q. FULLY EXTEND INNER TUBES (APPROX. 14.50) AND ALLOW THEM TO REST ON TOP OF THE STRUT STOP TUBE STORAGE LUGS ON THE MAIN STRUT.
2. RUN A 26mm WIRE ROPE FROM THE REAR DRUM THRU GROOVE OF UPPER SHEAVE ON WIRE ROPE GUIDE ASSEMBLY ON BOOM BUTT. (TEMPORARILY REMOVE EXISTING WIRE ROPE GUARD AT SHEAVE BEFORE RAISING MAIN STRUT WITH LOAD LINE). CONTINUE RUN OF WIRE ROPE AND ATTACH TO WEDGE SOCKET (075298 REF.) USING WEDGE (075447 REF.) CALLED FOR ON JIB POINT ROLLER ASSEMBLY (ITEM 18).
3. WITH PENDANT (ITEM 42) ATTACHED TO THE MAIN STRUT AND LINK (ITEM 32), UNPIN LINK FROM THE MAIN STRUT AND ATTACH TO THE WEDGE SOCKET (075298 REF.) WITH PIN (ITEM 3).
4. RAISE MAIN STRUT WITH LOAD LINE WHILE PAYING OUT LUFFING JIB HOIST LINE (DO NOT ALLOW LUFFING JIB HOIST LINE TO GO INTO TENSION UNTIL MAIN STRUT IS NEAR VERTICAL).
5. RAISE THE MAIN STRUT TO A POSITION WHERE THE MALE LUG END OF THE STRUT STOP TUBE ASSEMBLIES (ITEMS 30) ARE NEAR THEIR PINNING POSITION ON THE BOOM TOP LUGS. ADJUST TUBE LENGTH AS NECESSARY TO PIN TO THE BOOM TOP LUGS USING PINS (073045 REF.)
6. LOWER MAIN STRUT WITH LUFFING JIB HOIST LINE UNTIL SUPPORTED BY THE RETRACTED STRUT STOP TUBE ASSEMBLIES (ITEMS 30). REINSTALL PINS (563912 REF.) IN THE STRUT ERECTION AND POSITIONING LOCATION - SEE VIEW Q-Q.
7. CONNECT ALL BACKSTAY PENDANTS AND LINKS.
8. DISCONNECT WEDGE SOCKET (075298 REF.) FROM LINK (ITEM 32) AND CONNECT LINK ALONG WITH PENDANT (ITEM 42) TO STOWAGE LUGS ON MAIN STRUT WITH PIN (ITEM 3) - SEE VIEW P-P.
9. REMOVE PINS (177571 REF.) IN STRUT STOP TUBE ASSEMBLIES (ITEMS 30) - SEE VIEW Q-Q. RAISE MAIN STRUT WITH LUFFING JIB HOIST LINE UNTIL OPERATING POSITION PIN HOLES IN TUBE ASSEMBLIES ARE IN LINE AND INSTALL PINS (177571 REF.) - SEE DETAIL T.
10. RELAX LUFFING JIB HOIST LINE AND REMOVE PINS (563912 REF.) FROM STRUT STOP TUBE ASSEMBLIES (ITEMS 30) AND STORE IN LOCATION SHOWN - SEE VIEW Q-Q.
11. REVERSE PROCEDURE FOR LOWERING MAIN STRUT (ITEM 16).



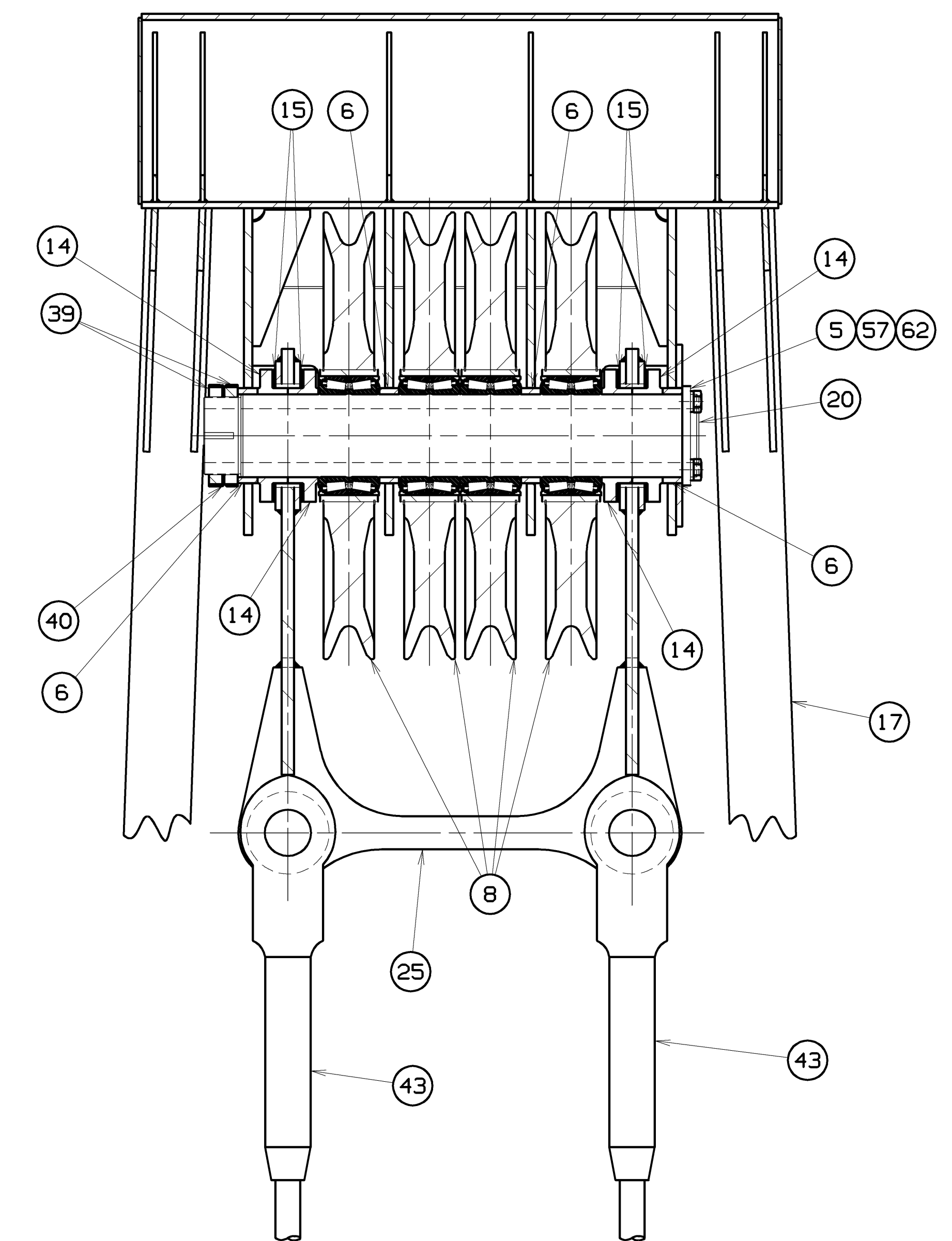
DETAIL J

SCALE: 1.20=1FT



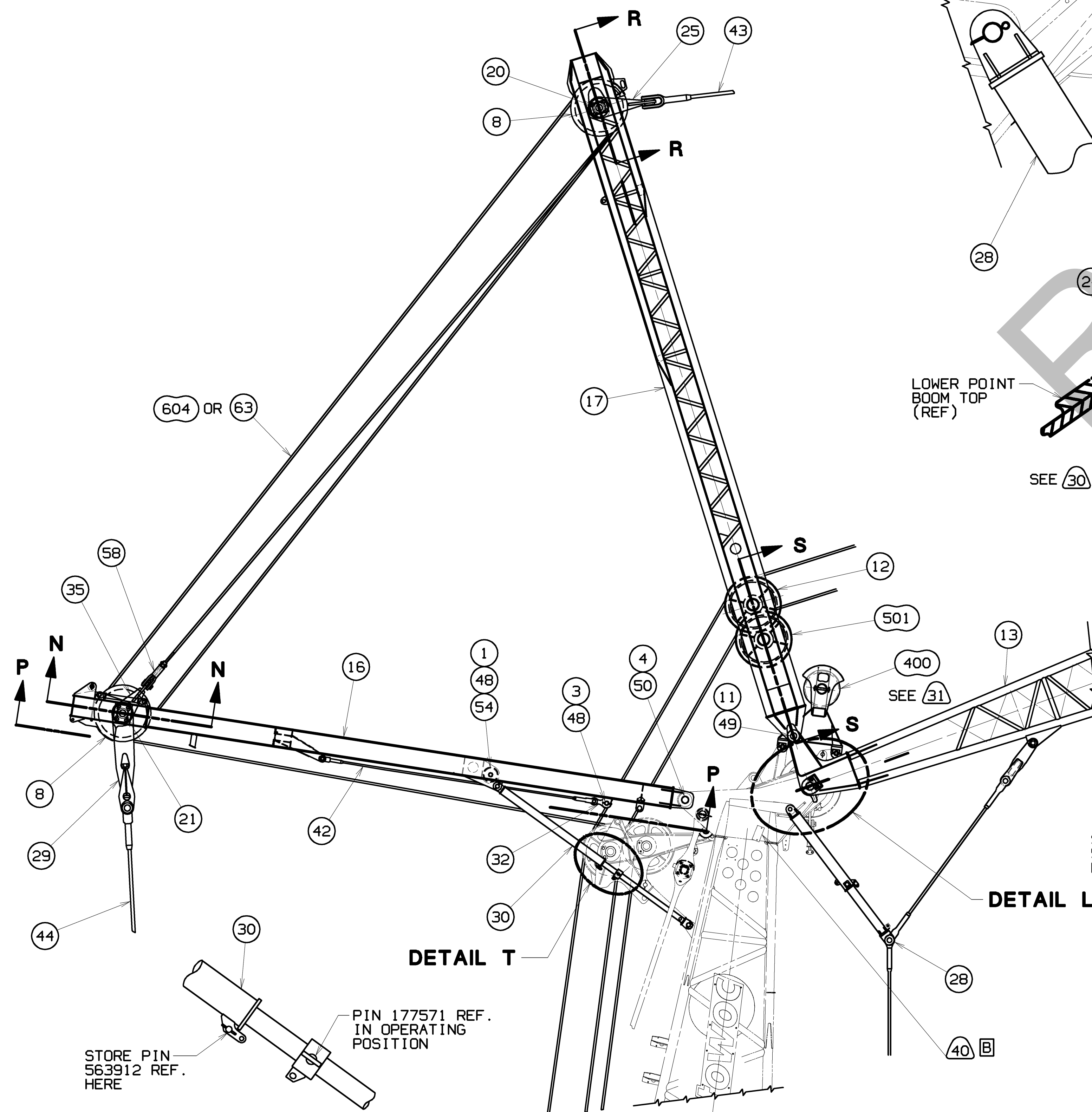
SECTION N-N

SCALE: 2"=1'FT



SECTION R-R

SCALE: 2=1FT

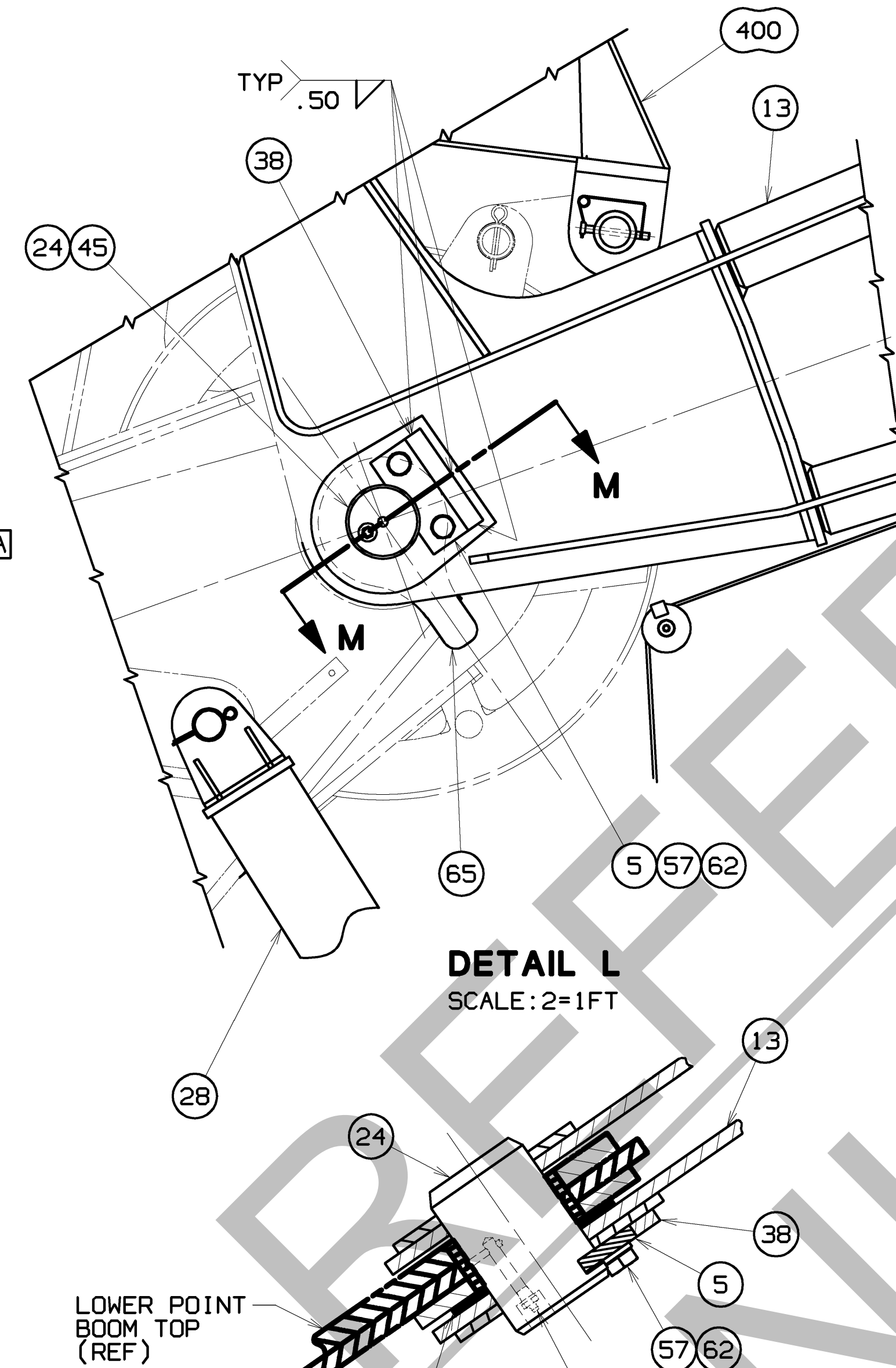


DETAIL T

SCALE: 1.5"=1FT

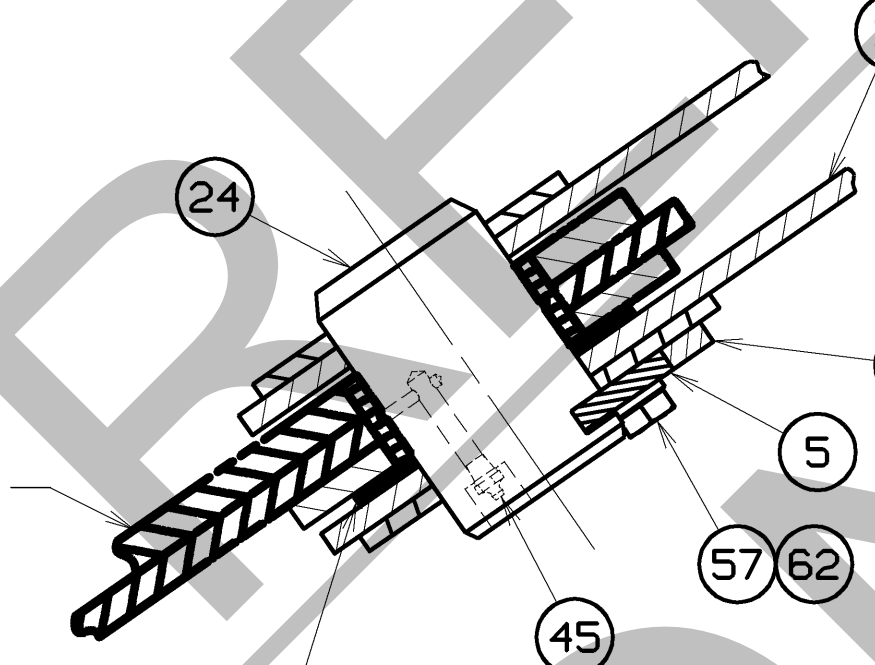
DETAIL K

SCALE: .38=1FT



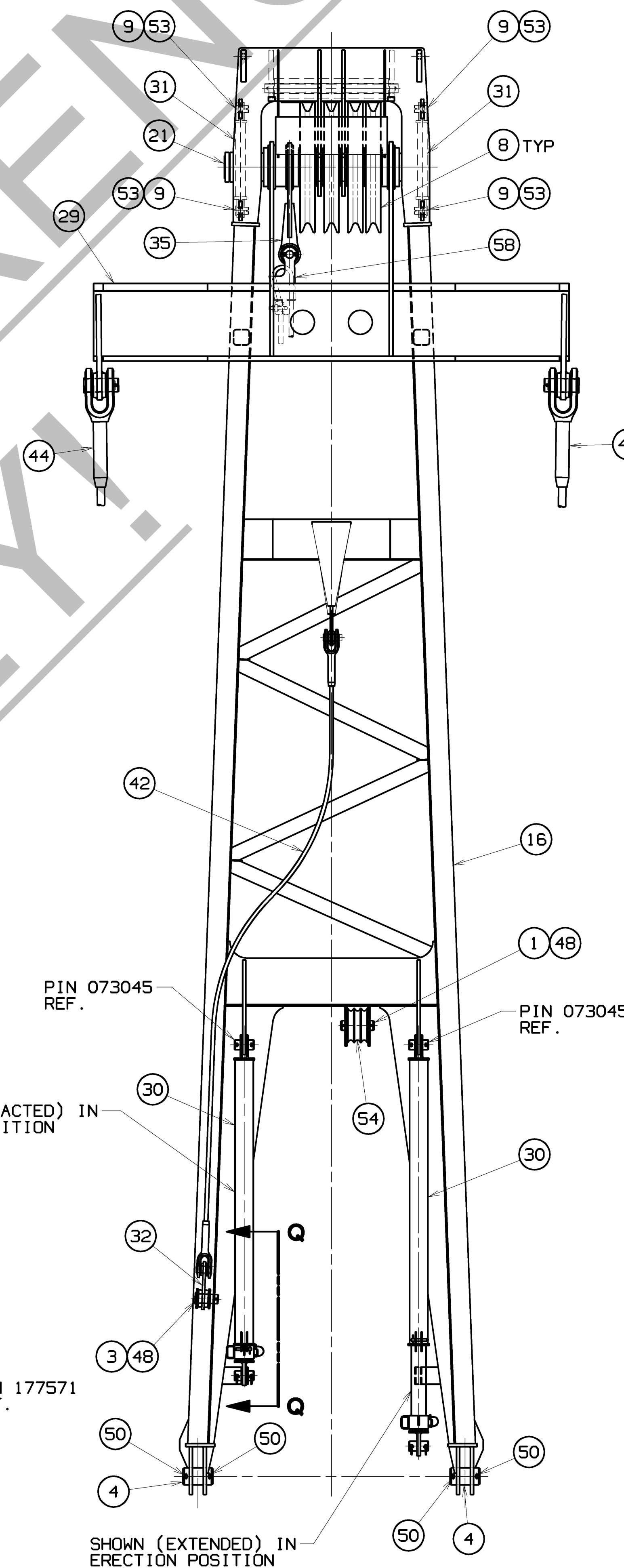
DETAIL L

SCALE: 2=1FT



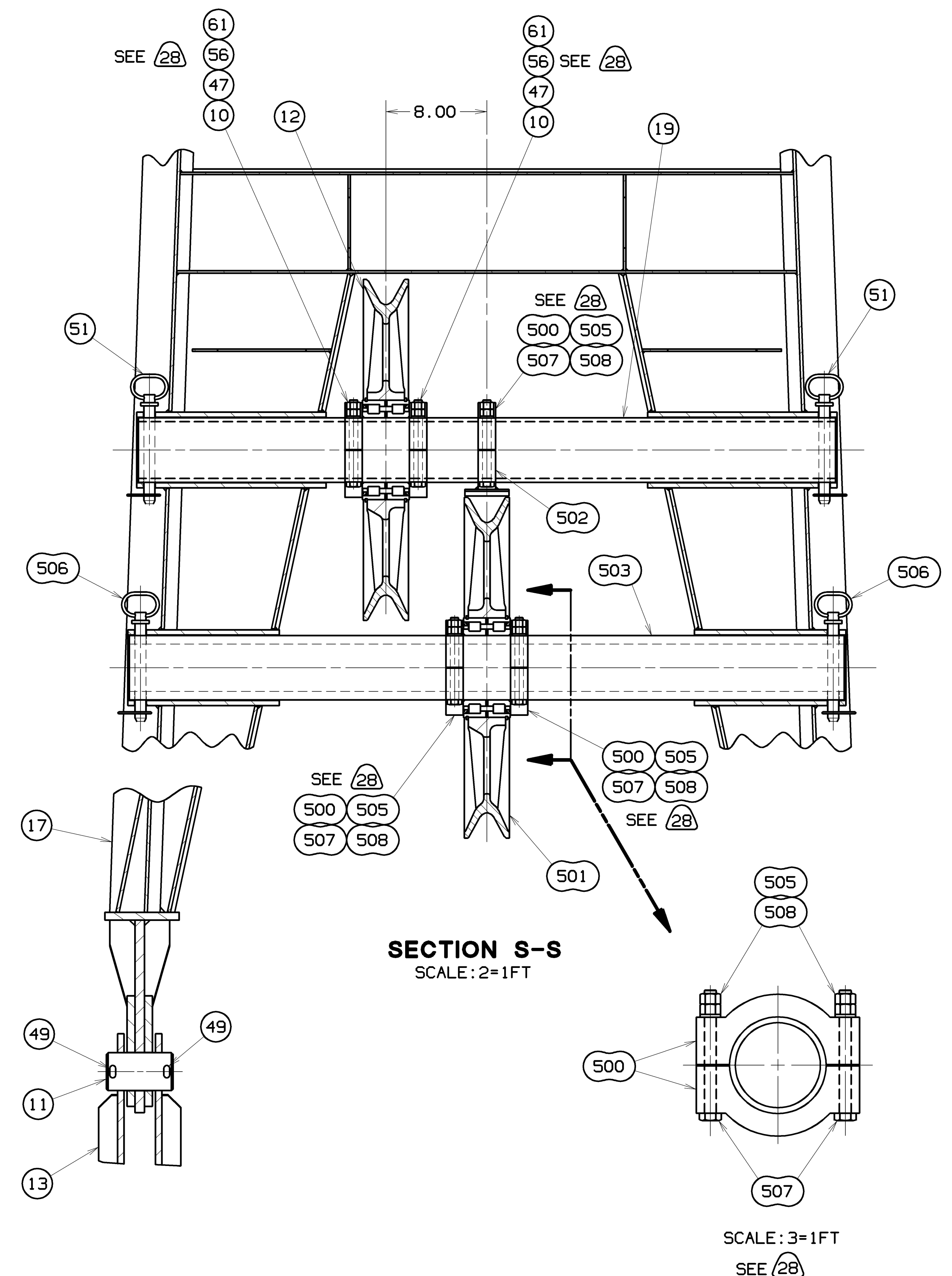
SECTION M-M

SCALE: 3"=1 FT



VIEW P-P

SCALE: 0.75"=1 FT



SECTION S-S

SCALE: 2=1FT

SCALE: 3=1 FT

SEE 28

BILL OF MATERIAL						
ITEM NO.	NO. RECD	SECTION	DESCRIPTION	LENGTH IN.	MATERIAL	CODE NO. OR DMS. NO

ASSEMBLIES USED ON	
-----------------------	--

REVISIONS
5-10-07 RHV ITEM 36 DELETED
5-22-07 RHV ADDED DELTA
4-23-10 JAS UPDATED ANITOWOC IGN

DWG. NO.
A18387
SHEET 5 OF 7

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN GDS500-05-035
DATE
03-23-07
PATTERN NO.

FOLD-UNDER LUFFING JIB RAISING PROCEDURE

(SEE LUFFING JIB RAISING PROCEDURE 8799A)

NOTE: THE FOLLOWING IS REQUIRED FOR FOLD-UNDER OPERATION.

- A) WIRE ROPE GUIDE ASSEMBLY 177364 (ITEM 400) MUST BE INSTALLED.
B) ADAPTER ASSEMBLY 177493 (ITEM 26) MUST BE EQUIPPED WITH PIN PULLER COMPONENTS CALLED FOR ON 177493 (ITEM 26 REF.).
C) WIRE ROPE WINCH ASSEMBLY 179380 (ITEM 403) AND WIRE ROPE GUIDE ASSY SINGLE SHEAVE 179380 (ITEM 402) MUST BE INSTALLED.

NOTE: WHEN JIB BUTT IS FOLDED UNDER BOOM TOP (JIB PENDANTS NOT ATTACHED) USE CAUTION DURING ASSEMBLY AND RAISING OR LOWERING OF JIB THAT JIB STRUT DOES NOT CRASH INTO WIRE ROPE GUIDE (ITEM 400) ON FRONT OF BOOM TOP OR DAMAGE WILL OCCUR (SEE VIEW "U").

BOOM UP UNTIL THERE IS ENOUGH CLEARANCE FOR WIRE ROPE GUIDE 179380 (ITEM 402) MOUNTED TO THE JIB TOP TO BE LOWERED WITH THE POSITIONING WINCH 179383 (ITEM 403) AND PINNED IN ITS WORKING POSITION. CONTINUE TO BOOM UP UNTIL JIB STRUT CAN HANG APPROXIMATELY VERTICAL. CONNECT JIB PENDANTS AND LINKS TO JIB POINT AND JIB STRUT TOP (EXCESS PENDANT SLACK SHOULD BE AT THE JIB STRUT END). LUFF UP TO REMOVE EXCESS JIB PENDANT SLACK ONLY (NEVER PUT JIB PENDANTS INTO TENSION). CONTINUE TO BOOM UP AND PERIODICALLY LUFF UP TO REMOVE EXCESS JIB PENDANT SLACK.

CAUTION: FAILURE TO MAINTAIN A MINIMUM ANGLE OF 74° BETWEEN JIB BUTT AND JIB STRUT WHILE RAISING MAY CAUSE JIB STRUT TO SNAP OVER CENTER AND CRASH THE JIB BUTT CAUSING DAMAGE.

NOTE: MAXIMUM BOOM ANGLE ALLOWED WITH JIB HANGING VERTICAL IS 75°.

INSTALL BLOCK/HOOK AND WEIGHT BALL. CONTINUE TO BOOM UP TO DESIRED ANGLE AND LUFF UP TO DESIRED WORKING RADIUS (SEE LUFFING JIB RAISING PROCEDURE A 8799A FOR BOOM TO JIB ANGLE REQUIREMENTS).

NOTE: REVERSE SEQUENCE TO LOWER AND FOLD LUFFING JIB. BOOM TO JIB CLEARANCE WILL DETERMINE TO WHAT DEGREE BOOM AND JIB CAN BE LOWERED. CLEARANCE POINTS WILL VARY DEPENDING ON BOOM/JIB COMBINATION, GROUND CONDITIONS AND BLOCKING USED. CLEARANCE POINTS AT JIB STOP STRUT TO JIB BUTT AND BOOM TOP, JIB INSERT TO BOOM LACING, JIB POINT WHEEL TO BOOM LACING AND JIB TOP WIRE ROPE GUIDE ASSEMBLY TO GROUND SHOULD BE MONITORED AS BOOM/JIB IS LOWERED. A MEANS TO START JIB UNDER BOOM WHEN FOLDING MAY BE REQUIRED.

LAYOUT IN-LINE LUFFING JIB RAISING PROCEDURE

(SEE LUFFING JIB RAISING PROCEDURE 8799A)

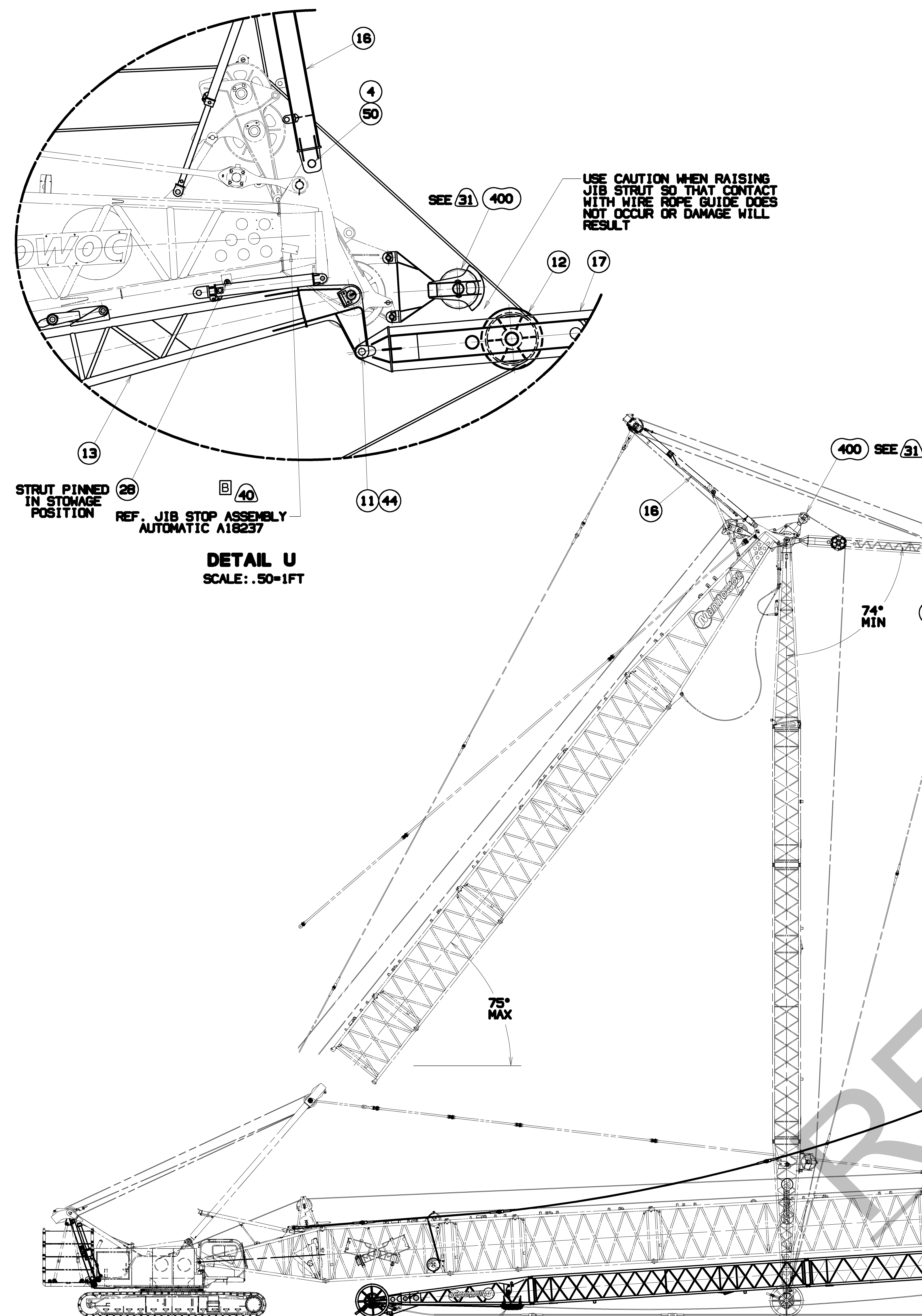
NOTE: AFTER LUFFING JIB REEVING IS COMPLETE, BUT BEFORE RAISING BOOM AND LUFFING JIB, LOCATE STRUT 177634 (ITEM 31) IN STORAGE POSITION. (DETAIL V).

DISCONNECT JIB STRUT 177443 (ITEM 17) FROM ADAPTER FRAME 177493 (ITEM 26) BY REMOVING PIN 014902 (ITEM 2) (DETAIL V) AND LOCATING PIN STORAGE POSITION. (DETAIL J).

REFER TO SHEET 5 FOR MAIN STRUT ERECTION PROCEDURE.

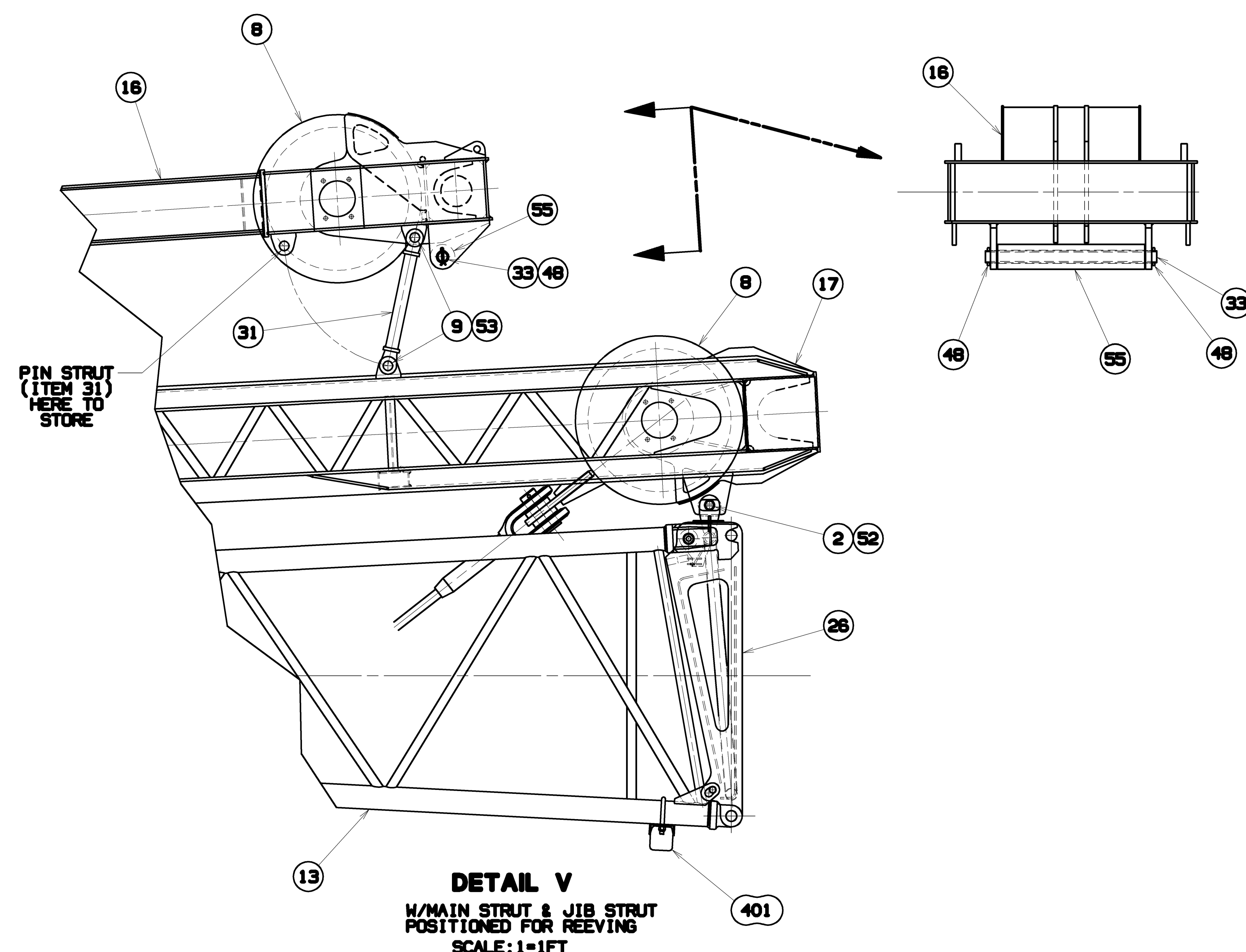
ASSEMBLE BOOM AND LUFFING JIB IN LAYOUT, END TO END, POSITION. ALLOW ENOUGH SLACK (PLUS 5 FT-0) IN CONTROL CABLE OF LUFFING JIB STOP ASSY 177561 (ITEM 26) SO THAT NO TENSION EXISTS. BOOM UP UNTIL THERE IS CLEARANCE BETWEEN GROUND AND LUFFING JIB STOP ASSY 177561 (ITEM 26). ATTACH LUFFING JIB STOP PENDANTS AND UNPIN LUFFING JIB STOP INNER STRUT FROM RETRACTED POSITION. (DETAIL W). SLOWLY RAISE BOOM UNTIL LUFFING JIB STOP STRUT IS FULLY EXTENDED AND PINS ENGAGED. (VIEW X). REMOVE EXCESS JIB PENDANT SLACK. RAISE BOOM AND LUFFING JIB SIMULTANEOUSLY WITH ONLY BOOM HOIST.

NOTE: REVERSE SEQUENCE TO LOWER BOOM AND LUFFING JIB. (DO NOT SUPPORT BOOM OR JIB WITH JIB STOP STRUT)

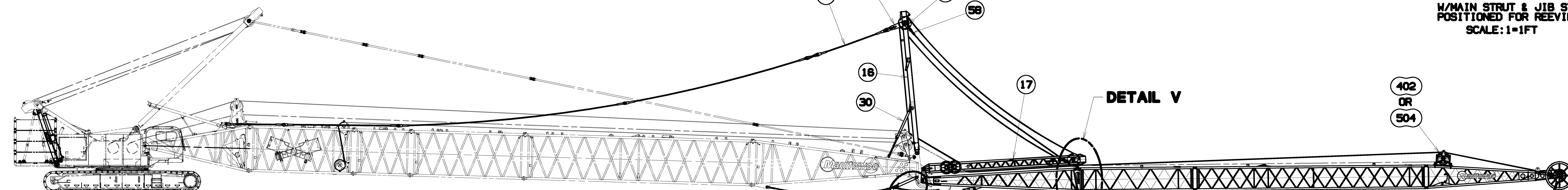


DETAIL U
SCALE: .50=1FT

FOLD-UNDER LUFFING JIB ARRANGEMENT
41 METER BOOM/33.5 METER JIB
(134.5 FT) / (110 FT)



DETAIL V
W/MAIN STRUT & JIB STRUT
POSITIONED FOR REEVING
SCALE: 1=1FT



41 METER BOOM
(134.5 FT)

LAYOUT IN-LINE LUFFING JIB ARRANGEMENT

33.5 METER JIB
(110 FT)

DETAIL W

LAYOUT JACK-KNIFE LUFFING JIB RAISING PROCEDURE

(SEE LUFFING JIB RAISING PROCEDURE 8799A)

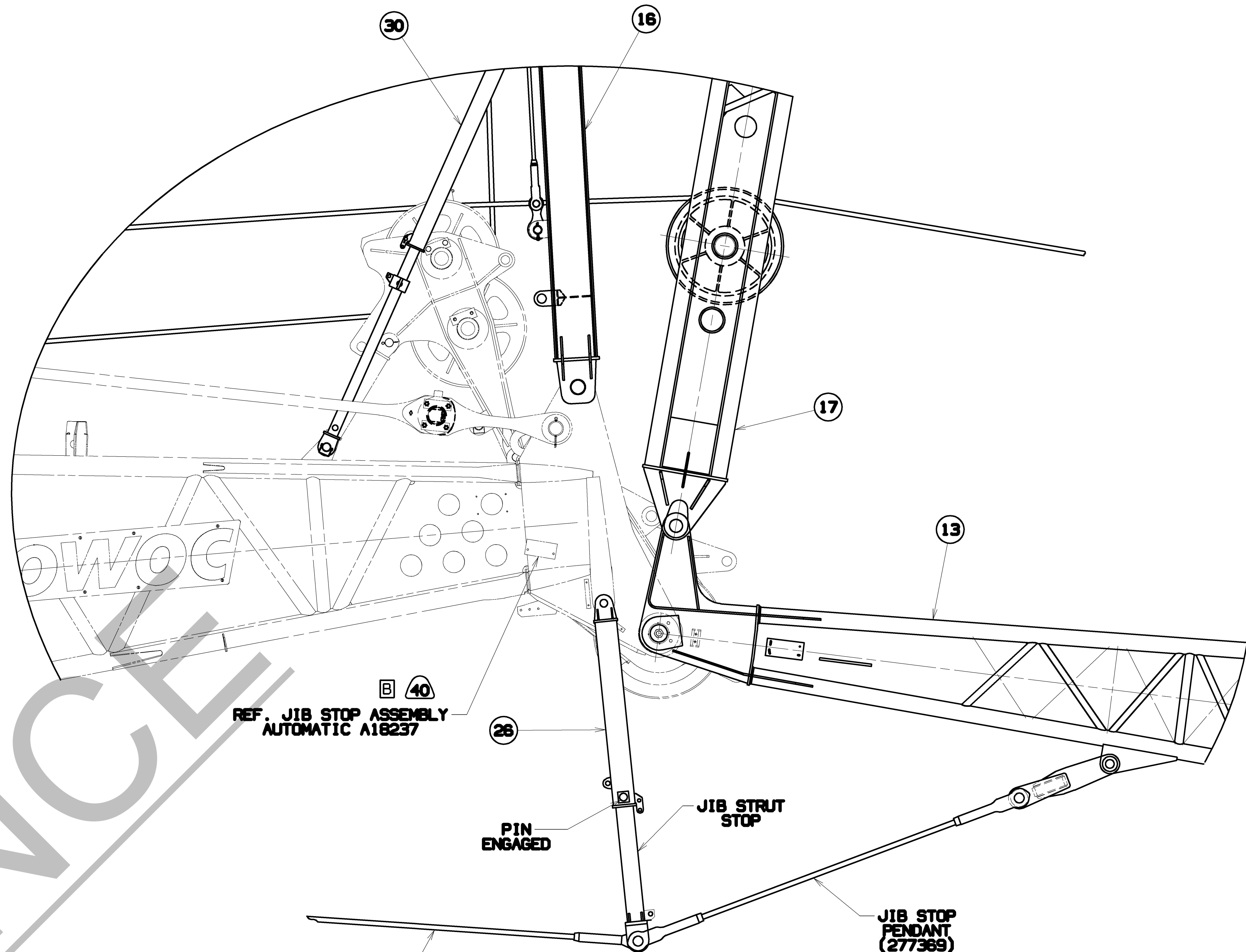
NOTE: AFTER LUFFING JIB REEVING IS COMPLETE, BUT BEFORE RAISING BOOM AND LUFFING JIB, LOCATE STRUT 177634 (ITEM 31) IN STORAGE POSITION. (DETAIL V).

DISCONNECT JIB STRUT 177443 (ITEM 17) FROM ADAPTER FRAME 177493 (ITEM 26) BY REMOVING PIN 014902 (ITEM 2) (DETAIL V) AND LOCATING PIN STORAGE POSITION. (DETAIL J).

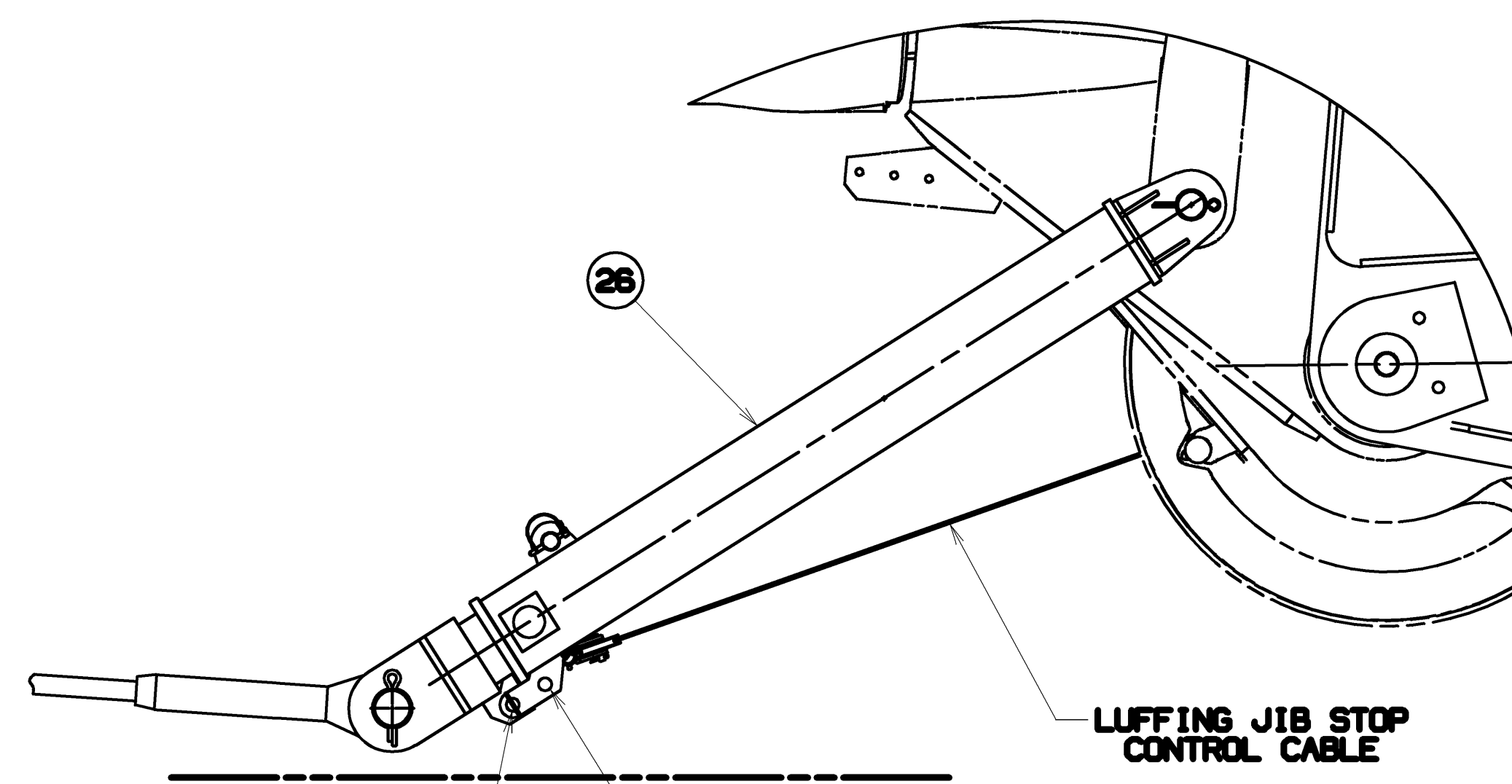
REFER TO SHEET 5 FOR MAIN STRUT ERECTION PROCEDURE.

ASSEMBLE BOOM AND LUFFING JIB IN LAYOUT, END TO END, POSITION. ALLOW ENOUGH SLACK (PLUS 5 FT-0) IN CONTROL CABLE OF LUFFING JIB STOP ASSY 177581 (ITEM 26) SO THAT NO TENSION EXISTS. BOOM UP UNTIL THERE IS CLEARANCE BETWEEN GROUND AND LUFFING JIB STOP ASSY 177581 (ITEM 26). ATTACH LUFFING JIB STOP PENDANTS AND UNPIN LUFFING JIB STOP INNER STRUT FROM RETRACTED POSITION. (DETAIL W). SLOWLY RAISE BOOM UNTIL LUFFING JIB STOP STRUT IS FULLY EXTENDED AND PINS ENGAGED. (VIEW X). BOOM UP WHILE LUFFING JIB POINT WHEELS ROLL ON GROUND. PERIODICALLY LUFF UP TO KEEP LUFFING JIB STRUT 177443 (ITEM 17) OFF LUFFING JIB. WHEN REQUIRED BOOM TO JIB ANGLE FOR THE LENGTHS IS REACHED, REMOVE EXCESS JIB PENDANT SLACK. RAISE BOOM AND LUFFING JIB SIMULTANEOUSLY WITH ONLY BOOM HOIST UNTIL BOOM REACHES DESIRED BOOM OPERATING ANGLE.

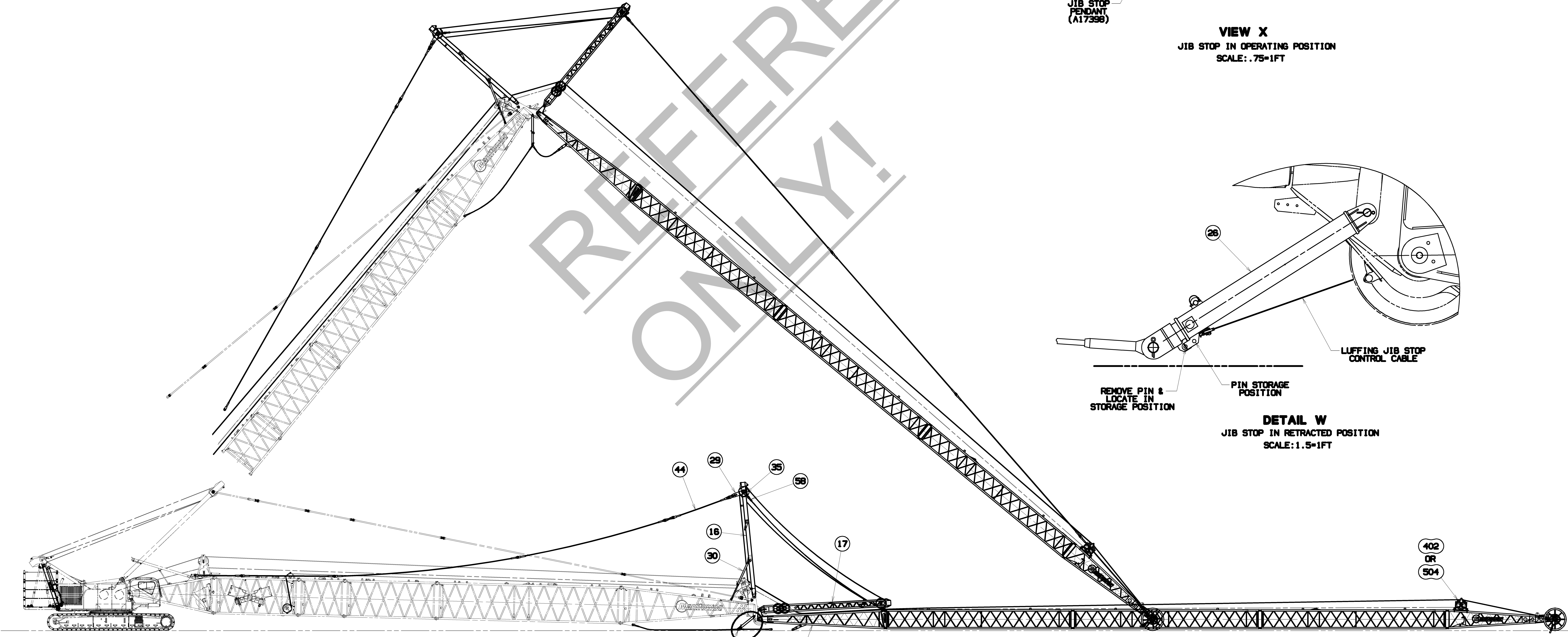
NOTE: REVERSE SEQUENCE TO LOWER BOOM AND LUFFING JIB. (POSITION BOOM AT 85 DEGREES) (DO NOT SUPPORT BOOM OR JIB WITH JIB STOP STRUT)



VIEW X
JIB STOP IN OPERATING POSITION
SCALE: 1/4\"/>



DETAIL W
JIB STOP IN RETRACTED POSITION
SCALE: 1.5\"/>



41 METER BOOM
(134.5 FT)

LAYOUT JACK-KNIFE LUFFING JIB ARRANGEMENT

51.8 METER JIB
(170 FT)

DETAIL W

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APP R/JW		MODEL 14000		#135 JIB ON #76 BOOM		DATE 03-23-07		PATTERN NO.
						DATE 03-23-07		PATTERN NO.