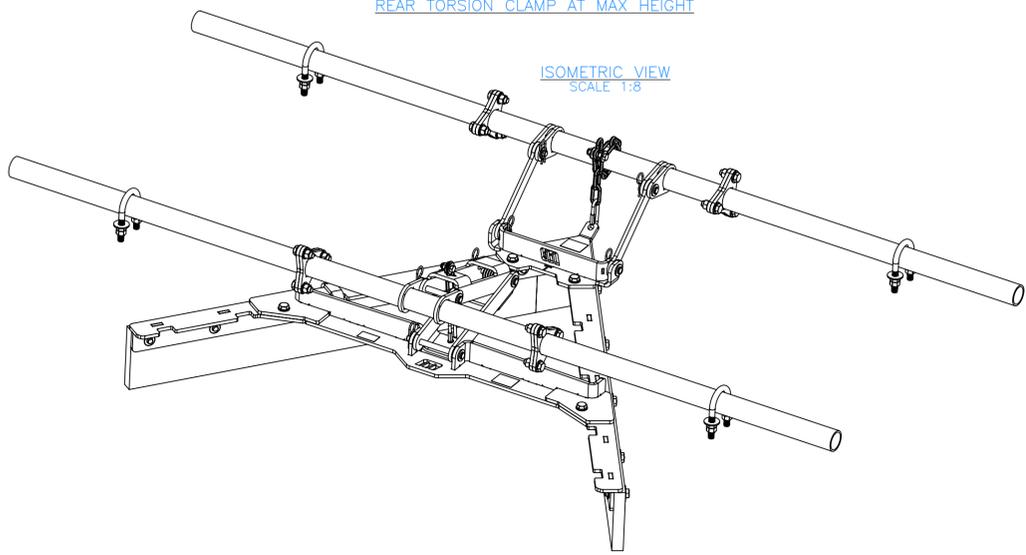
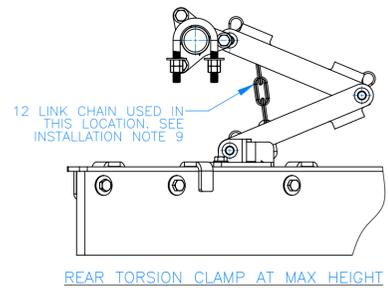
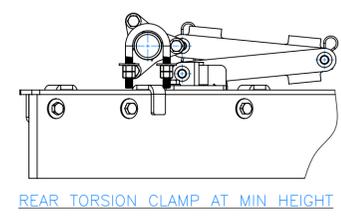


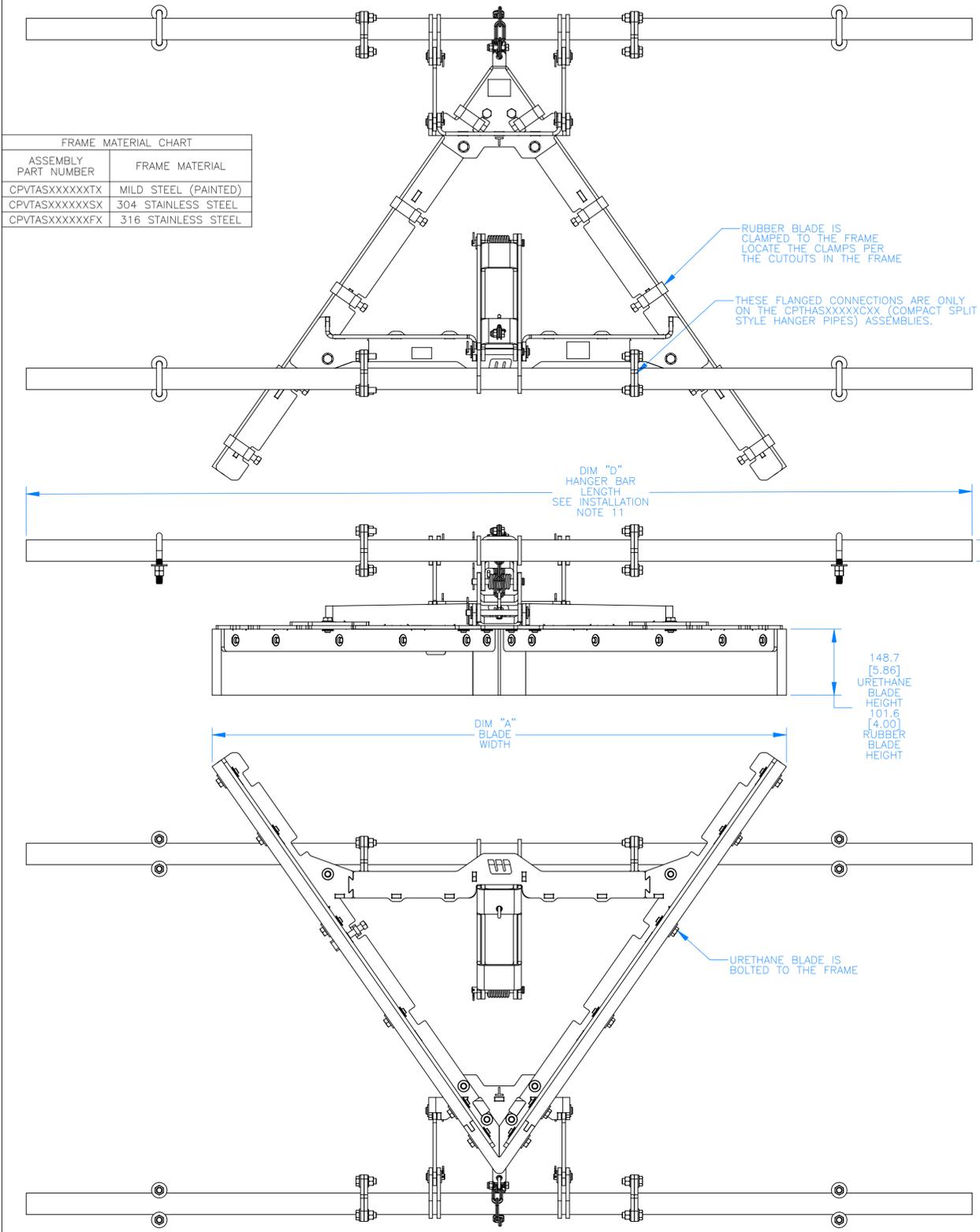
ASSEMBLY PART NUMBER	DIM "A"	DIM "B"	DIM "D"
CPVTAS24XXXXXX	685.8 [27.00]	494.8 [19.48]	1524.0 [60.00]
CPVTAS30XXXXXX	838.2 [33.00]	603.6 [23.77]	1676.4 [66.00]
CPVTAS36XXXXXX	990.6 [39.00]	712.5 [28.05]	1828.8 [72.00]
CPVTAS42XXXXXX	1143.0 [45.00]	821.3 [32.33]	1981.2 [78.00]
CPVTAS48XXXXXX	1295.4 [51.00]	930.1 [36.62]	2133.6 [84.00]
CPVTAS54XXXXXX	1447.8 [57.00]	1038.9 [40.90]	2286.0 [90.00]
CPVTAS60XXXXXX	1600.2 [63.00]	1147.7 [45.19]	2438.4 [96.00]
CPVTAS66XXXXXX	1752.6 [69.00]	1256.6 [49.47]	2590.8 [102.00]
CPVTAS72XXXXXX	1905.0 [75.00]	1365.4 [53.76]	2743.2 [108.00]
CPVTAS78XXXXXX	2057.4 [81.00]	1474.3 [58.04]	2895.6 [114.00]
CPVTAS84XXXXXX	2209.8 [87.00]	1583.1 [62.33]	3048.0 [120.00]
CPVTAS96XXXXXX	2514.6 [99.00]	1800.7 [70.90]	3352.8 [132.00]
CPVTAS8XXXXXX	2819.4 [111.00]	2018.4 [79.46]	3657.6 [144.00]
CPVTASCOXXXXXX	3124.2 [123.00]	2236.0 [88.03]	3962.4 [156.00]

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	TORSION V-PLOW ASSEMBLY	CPVTASXXXXXX



BLADE CHART		
ASSEMBLY PART NUMBER	URETHANE SIDE BLADE P/N	RUBBER BLADE P/N
CPVTAS24XXXXXX	-----	CPVTBS24R
CPVTAS30XXXXXX	CPVTBS24X	-----
CPVTAS36XXXXXX	-----	CPVTBS30R
CPVTAS42XXXXXX	CPVTBS30X	-----
CPVTAS48XXXXXX	-----	CPVTBS36R
CPVTAS54XXXXXX	CPVTBS36X	-----
CPVTAS60XXXXXX	-----	CPVTBS42R
CPVTAS66XXXXXX	CPVTBS42X	-----
CPVTAS72XXXXXX	-----	CPVTBS48R
CPVTAS78XXXXXX	CPVTBS48X	-----
CPVTAS84XXXXXX	-----	CPVTBS54R
CPVTAS96XXXXXX	CPVTBS54X	-----
CPVTAS8XXXXXX	-----	CPVTBS60R
CPVTASCOXXXXXX	CPVTBS60X	-----
CPVTASXXXXXX	-----	CPVTBS66R
CPVTASXXXXXX	CPVTBS66X	-----
CPVTASXXXXXX	-----	CPVTBS72R
CPVTASXXXXXX	CPVTBS72X	-----
CPVTASXXXXXX	-----	CPVTBS78R
CPVTASXXXXXX	CPVTBS78X	-----
CPVTASXXXXXX	-----	CPVTBS84R
CPVTASXXXXXX	CPVTBS84X	-----
CPVTASXXXXXX	-----	CPVTBS96R
CPVTASXXXXXX	CPVTBS96X	-----
CPVTASXXXXXX	-----	CPVTBSA8R
CPVTASXXXXXX	CPVTBSA8X	-----
CPVTASXXXXXX	-----	CPVTBSCOR
CPVTASXXXXXX	CPVTBSCOX	-----

FRAME MATERIAL CHART	
ASSEMBLY PART NUMBER	FRAME MATERIAL
CPVTASXXXXXX	MILD STEEL (PAINTED)
CPVTASXXXXXX	304 STAINLESS STEEL
CPVTASXXXXXX	316 STAINLESS STEEL



URETHANE BLADE COLOR CHART			
ASSEMBLY PART NUMBER	URETHANE NOSE P/N	URETHANE SIDE BLADE P/N	BLADE COLOR
CPVTASXXXXXX	CPVTB0010	CPVTBSXXO	ORANGE
CPVTASXXXXXX	CPVTB001B	CPVTBSXXB	BROWN
CPVTASXXXXXX	CPVTB001G	CPVTBSXXG	GREEN

HANGER ARM CHART				
ASSEMBLY PART NUMBER	HANGER ARM P/N	DIM "E"	DIM "F" MIN.	DIM "G" MAX.
CPVTASXR03XXX	CPVTP1002203X	200 [7.87]	188 [7.39]	334 [13.14]
CPVTASXR03XXX	CPVTP1002203X	200 [7.87]	235 [9.25]	381 [15.00]
CPVTASXR04XXX	CPVTP1002204X	300 [11.81]	239 [9.39]	435 [17.14]
CPVTASXR04XXX	CPVTP1002204X	300 [11.81]	286 [11.25]	483 [19.00]

HANGER ARM DIMENSIONS				
ASSEMBLY PART NUMBER	DIM "C" W/ 200MM [7.87"] ARMS		DIM "C" W/ 300MM [11.81"] ARMS	
	MIN	MAX	MIN	MAX
CPVTAS24XXXXXX THRU CPVTAS36XXXXXX	387 [15.25]	559 [22.00]	432 [17.00]	732 [28.81]
CPVTAS42XXXXXX THRU CPVTAS48XXXXXX	631 [24.83]	837 [32.94]	670 [26.38]	944 [37.17]
CPVTAS54XXXXXX THRU CPVTAS66XXXXXX	859 [33.83]	1065 [41.94]	886 [34.88]	1160 [45.67]
CPVTAS72XXXXXX THRU CPVTAS84XXXXXX	1183 [46.58]	1389 [54.69]	1210 [47.63]	1484 [58.42]
CPVTAS96XXXXXX THRU CPVTAS8XXXXXX	1583 [62.33]	1789 [70.44]	1683 [66.25]	1884 [74.17]
CPVTASCOXXXXXX	1983 [78.08]	2189 [86.19]	2010 [79.13]	2284 [89.92]

NOTES:

- ALL DIMENSIONS ARE GIVEN IN MILLIMETERS [INCHES].
- ALL DIMENSIONS ARE FOR REFERENCE ONLY.
- IN THE PART NUMBER THE SXX AFTER THE CPVTA INDICATES THE BELT WIDTH IN STANDARD INCH UNITS FOR BELT WIDTHS 18.00 THRU 96.00.
 - SAB = 108.00 INCHES
 - SCO = 120.00 INCHES

THE NEXT X INDICATES THE BLADE TYPE:

- R = RUBBER BLADE (1 PC BLADE) (CLAMPED TO THE FRAME)
- O = ORANGE URETHANE BLADE (3 PC BLADE)
- B = BROWN URETHANE BLADE (3 PC BLADE)
- G = GREEN URETHANE BLADE (3 PC BLADE) (URETHANE BLADES ARE BOLTED TO THE FRAME)

THE NEXT TWO XX'S INDICATE THE HANGER ARM USED:

- 01 = 01 HANGER ARM THRU 04 = 04 HANGER ARM (SEE CHART FOR SIZE)

THE NEXT X INDICATES THE HANGER PIPE TYPE:

- C = COMPACT SPLIT STYLE HANGER PIPES
- S = 1 PIECE SOLID STYLE HANGER PIPES

THE NEXT X INDICATES THE TYPE OF STEEL MATERIAL USED:

- T = PAINTED MILD STEEL
- S = 304 STAINLESS STEEL
- F = 316 STAINLESS STEEL

THE LAST X INDICATES THE ASSEMBLY OPTIONS:

- A = UNIT IS SHIPPED ASSEMBLED
- B = UNIT IS SHIPPED ASSEMBLED WITH HUB MOUNT KIT
- U = UNIT IS SHIPPED UNASSEMBLED
- V = UNIT IS SHIPPED UNASSEMBLED WITH HUB MOUNT KIT

4) WARNING LABELS (P/N'S 23395 AND 38277) ARE SHIPPED LOOSE AND ARE TO BE PLACED ON BOTH SIDES OF THE CONVEYOR NEAR THE PRODUCT.

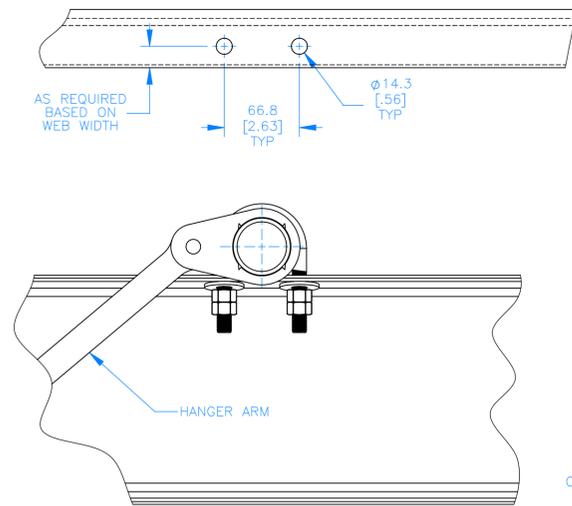
SHEET 1 OF 2

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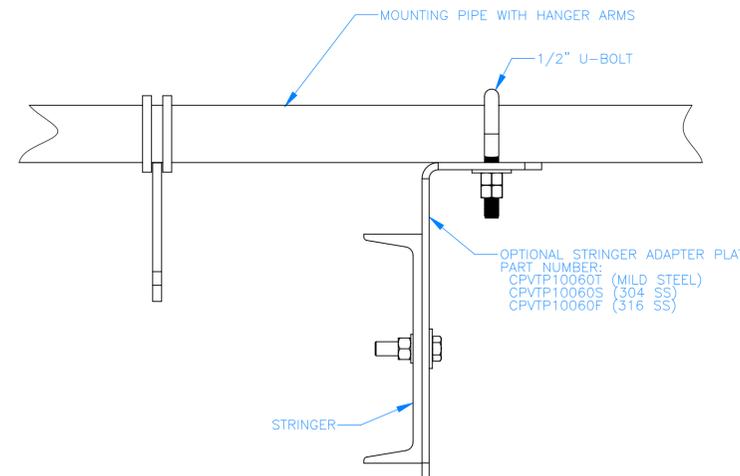
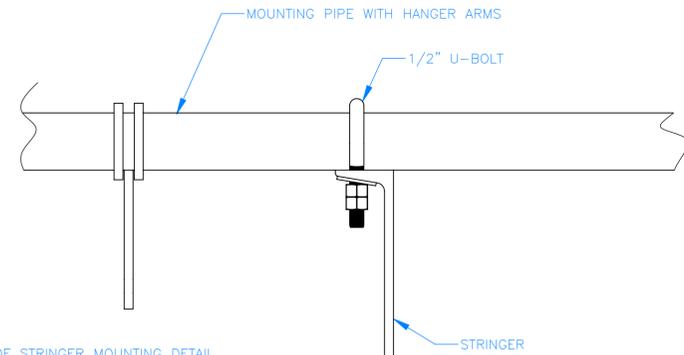


TITLE	DATE	RND
TORSION V-PLOW ASM 24 - 120 BELT WIDTHS	09/24/18	CHECKED
SALES DRAWING	02/06/19	APPROVED
PR13634	02/05/19	SCALE 5:32

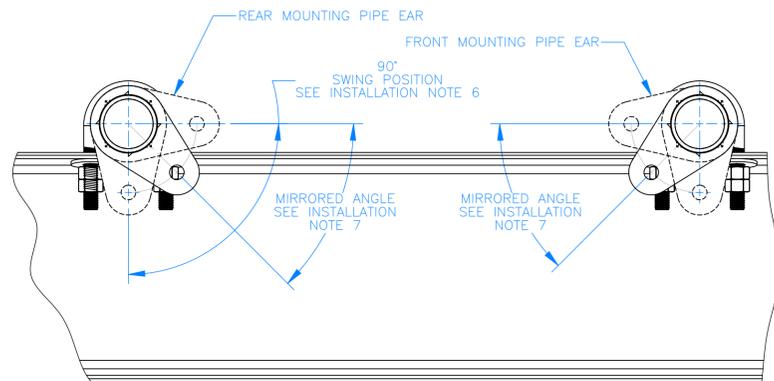
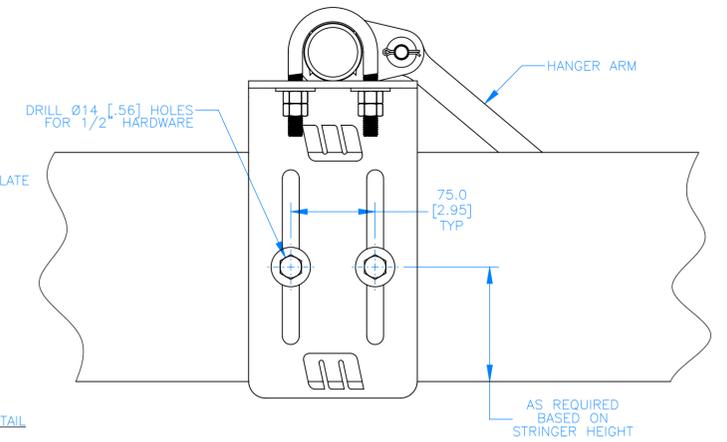
NO.	DESCRIPTION	ECN	DATE	BY
A	(SHT 1) ADDED HUB MOUNT KIT OPTIONS TO NOTE / (SHT 2) ADDED OPTIONAL HUB MOUNT DETAILS (PR13887)	----	11/06/19	JAH
REVISION				



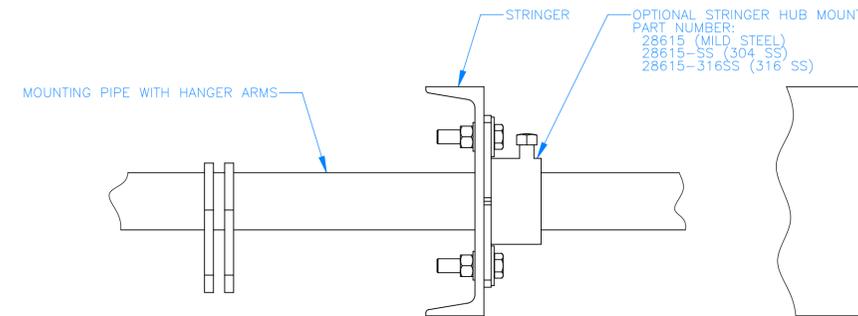
TOP OF STRINGER MOUNTING DETAIL
BOTTOM OF STRINGER MOUNTING IS SIMILAR
DRILL HOLES IN STRINGER AS SHOWN
CLAMP MOUNTING PIPE TO STRINGER WITH U-BOLTS
SCALE 5:16



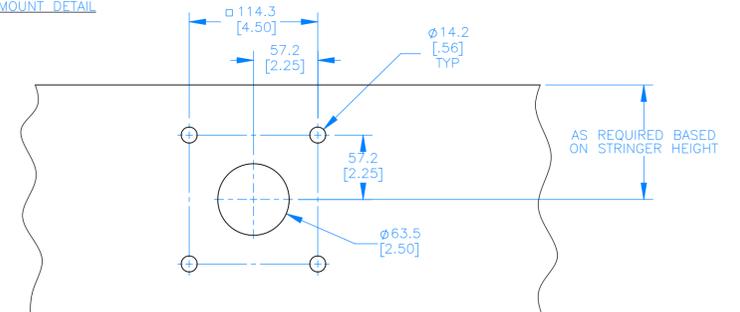
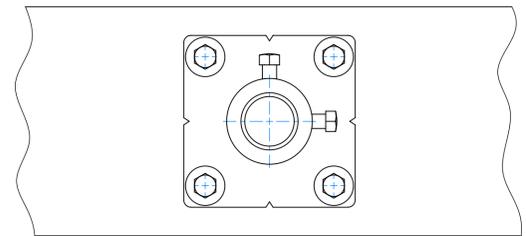
TOP OF STRINGER MOUNTING WITH OPTIONAL ADAPTER PLATE DETAIL
BOTTOM OF STRINGER MOUNTING IS SIMILAR
DRILL HOLES IN STRINGER AS SHOWN
(OPTIONAL ADAPTER PLATE MAY BE WELDED TO STRINGER)
CLAMP MOUNTING PIPE TO STRINGER ADAPTER PLATE WITH U-BOLTS
SCALE 5:16



TOP OF STRINGER MOUNTING HANGER PIPE ARM POSITION DETAIL
BOTTOM OF STRINGER MOUNTING IS SIMILAR
CLAMP MOUNTING PIPE TO STRINGER WITH U-BOLTS
MIRROR MOUNTING ANGLE WITHIN THE 90° ALLOWABLE POSITION
SCALE 5:16

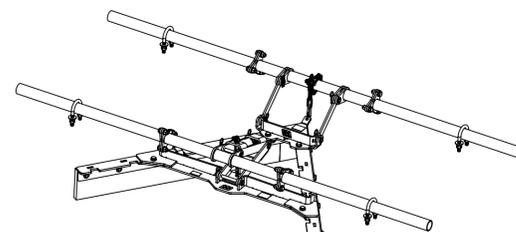


STRINGER MOUNTING WITH OPTIONAL HUB MOUNT DETAIL
SCALE 5:16

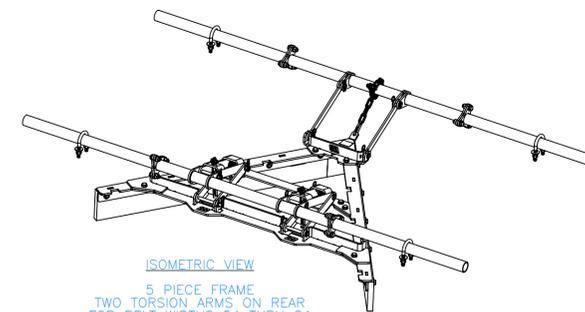


OPTIONAL HUB MOUNT STRINGER MOUNTING CUTOUT DETAIL
DRILL HOLES IN STRINGER AS SHOWN
(OPTIONAL HUB MOUNT MAY BE WELDED TO STRINGER)
SCALE 5:16

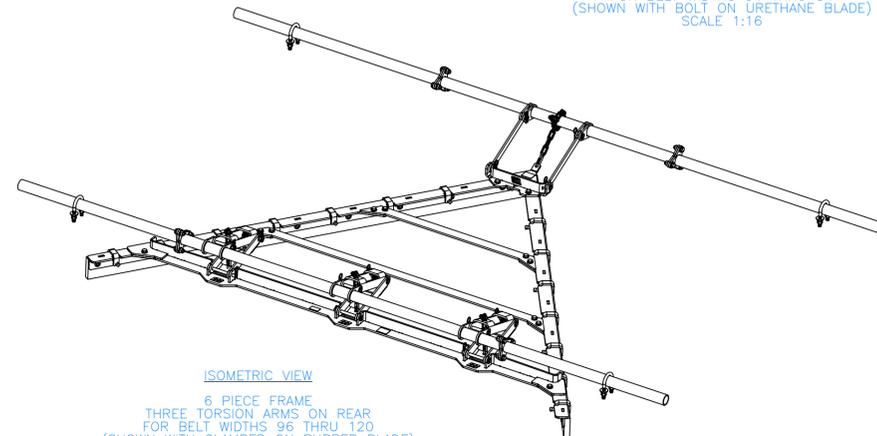
- INSTALLATION NOTES:
- REFER TO OPERATORS MANUAL FOR PROPER INSTALLATION AND MAINTENANCE INSTRUCTIONS. ALSO REFER TO THE MANUAL FOR REPLACEMENT PARTS.
 - V-PLOW IS DESIGNED FOR TAIL PULLEY PROTECTION ONLY, NOT FOR REMOVING MATERIAL CARRYBACK.
 - LOCATE A SUITABLE POSITION FOR THE V-PLOW AT THE TAIL END OF THE CONVEYOR, THE DISCHARGE END OF THE V-PLOW MUST BE CLEAR OF THE STRUCTURE TO ALLOW MATERIAL TO EXIT OFF THE BLADE.
 - THE BELT MUST BE FLAT IN THE AREA WHERE THE V-PLOW IS TO BE INSTALLED TO ENSURE THE WEAR RATE OF THE BLADE IS EVEN. INSTALL RETURN IDLES AS REQUIRED TO ENSURE THE BELT IS FLAT IN THE V-PLOW LOCATION.
 - THE V-PLOW SHOULD NOT BE PLACED ON TOP OF RETURN ROLLERS. ALLOW A MINIMUM OF 11.81 [300] FROM THE CENTER OF THE RETURN ROLLERS TO THE FRONT OF THE V-PLOW BLADE. ALSO ALLOW A MINIMUM OF 12.00 [305] FROM THE FACE OF THE TAIL PULLEY TO THE BACK EDGE OF THE V-PLOW BLADE.
 - PLACE THE V-PLOW FRAME (LESS THE BLADE AND HANGER PIPES) ONTO THE BELT IN THE PROPOSED LOCATION. ADJUST THE POSITION AS NEEDED TO ALLOW FOR THE BEST MOUNTING LOCATION FOR THE HANGER PIPES. HANGER PIPES MAY BE BOLTED ON TOP, BELOW, OR THRU THE STRINGER CHANNELS. MARK THE PROPOSED LOCATION OF THE REAR HANGER PIPE. INSTALL THE REAR HANGER PIPE IN THE MARKED LOCATION. CONNECT THE TORSION LINK ARM TO THE V-PLOW FRAME AND THE REAR HANGER PIPE. THE EARS ON THE REAR HANGER PIPE MAY BE ORENTATED IN ANY POSITION WITHIN THE 90° SWING FROM VERTICALLY DOWN TO HORIZONTAL TO THE FRONT OF THE V-PLOW FRAME.
 - RAISE THE FRONT HANGER ARMS AND MARK THE LOCATION OF THE FRONT HANGER PIPE. THE CENTER OF THE FRONT HANGER PIPE MUST BE PARALLEL TO THE CENTER OF THE REAR HANGER PIPE AND BOTH PIPE CENTERS ARE TO BE PARALLEL TO THE BELT. THE FRONT HANGER ARMS SHOULD NOT BE LESS THAN 20° OFF VERTICAL WITH THE V-PLOW FRAME. ALSO THE FRONT HANGER PIPE ARMS SHOULD BE AT AN ANGLE THAT MIRRORS THE REAR HANGER PIPE ARMS ANGLE. INSTALL THE FRONT HANGER PIPE AND CONNECT THE HANGER ARMS.
 - THE 12 LINK CHAIN IS USED TO LOCK THE REAR TORSION ARMS TOGETHER AND TO SET THE DROP HEIGHT. CONNECT THE QUICK LINK TO THE BOTTOM TORSION ARM AND SECURE THE TOP TORSION ARM WITH THE SUPPLIED HARDWARE. SECURE THE CHAIN SO THAT WHEN THE V-PLOW BLADE IS WORN THE V-PLOW FRAME DOES NOT MAKE CONTACT WITH THE BELT.
 - THE 21 LINK LANYARD CHAIN IS TO BE MOUNTED TO THE FRONT HANGER PIPE. CONNECT TO THE FRONT OF THE V-PLOW WITH THE QUICK LINK AND SECURE THE OTHER END TO THE FRONT HANGER PIPE WITH THE SUPPLIED HARDWARE. MEASURE AND SECURE THE CHAIN SO THAT WHEN THE V-PLOW BLADE IS WORN THE V-PLOW FRAME DOES NOT MAKE CONTACT WITH THE BELT. SET THE PLOW UP SO THE NOSE IS SLIGHTLY ELEVATED SO THAT THE V-PLOW DOES NOT DIG INTO THE BELT.
 - WITH THE HANGER PIPES IN POSITION TIGHTEN THE U-BOLTS FOR THE HANGER PIPES. USE SPACERS/SHIMS TO RAISE THE V-PLOW FRAME .25 [6] OFF THE BELT. ADJUST THE SAFETY CHAINS TO PREVENT THE FRAME FROM REACHING THE BELT. REMOVE THE FRAME TO BELT .25 [6] SPACERS/SHIMS. MAKE SURE THE V-PLOW FRAME DOES NOT TOUCH THE BELT. ADJUST THE SAFETY CHAINS AS NEEDED TO ENSURE THE FRAME DOES NOT TOUCH THE BELT. INSTALL THE V-PLOW BLADE ONTO THE FRAME AFTER THE SAFETY CHAINS HAVE BEEN SET.
 - HANGER PIPES ARE LONGER THAN REQUIRED, FIELD MODIFY THE LENGTH AS NEEDED FOR PROPER MOUNTING. IF MOUNTED THRU THE STRINGER DRILL OR CUT 2-1/2" DIAMETER HOLES FOR MOUNTING THE HANGER PIPES AND USE THE OPTIONAL MOUNTING PLATES.
 - ONCE THE V-PLOW HAS BEEN ATTACHED TO THE STRUCTURE ENSURE THAT IT IS ABLE TO MOVE FREELY. RUN THE BELT AND TEST THE EFFECTIVENESS OF THE V-PLOW AND MAKE ANY ADJUSTMENTS IF NEEDED.



ISOMETRIC VIEW
4 PIECE FRAME
ONE TORSION ARM ON REAR
FOR BELT WIDTHS 24 THRU 48
(SHOWN WITH BOLT ON URETHANE BLADE)
SCALE 1:16



ISOMETRIC VIEW
5 PIECE FRAME
TWO TORSION ARMS ON REAR
FOR BELT WIDTHS 54 THRU 84
(SHOWN WITH BOLT ON URETHANE BLADE)
SCALE 1:16



ISOMETRIC VIEW
6 PIECE FRAME
THREE TORSION ARMS ON REAR
FOR BELT WIDTHS 96 THRU 120
(SHOWN WITH CLAMPED ON RUBBER BLADE)
SCALE 1:16

- NOTES:
- ALL DIMENSIONS ARE GIVEN IN MILLIMETERS [INCHES].
 - ALL DIMENSIONS ARE FOR REFERENCE ONLY.

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MARTIN ENGINEERING-USA
NEPONSET, IL USA

TITLE: TORSION DUTY V-PLOW ASSEMBLY
DRAWN: JAH
RND: 09/24/18
CHECKED: JAH
ENG: 02/06/19
DATE: 02/06/19
APPROVED: JAH
DATE: 02/05/19

NO.	DESCRIPTION	ECN	DATE	BY
A	(SHT 1) ADDED HUB MOUNT KIT OPTIONS TO NOTE / (SHT 2) ADDED OPTIONAL HUB MOUNT DETAILS (PR13887)	----	11/06/19	JAH
SALES DRAWING				
PR13634			S50127	