	TRAINING RECORD FOR 1					REVISION HISTORY	
DATE:	TRAINEE:	CERTIFIED BY:		RE	/ # RE	ISION DESCRIPTION	DATE
				-		PRELIMINARY	08/08/13
	1	L	I		UPDATED BY	: A. ZIMMERMAN	
					APPROVALS	SIGNATUR	ES DATE
					OPERATIONS ENGINEERING	—	
					QUALITY AS	—	
Description:				Subject:			
		CAL	F WELDING		Training Log		
W.I. Number:	PY-WI-0001	Operation No.	BOM / Assy Dwg N STP	o. Y-304-A 1	Product Line:	OMPY Rev: PRELIM	Page: 1 OF 2

PART NUMBER	DESCRIPTION	QTY
	SAFETY GLASSES	1
	WELDING HOOD	1
1/4-20 X .5LG BHCS	BUTTON HEAD CAP SCREWS	20
1/4-20 SQUARE NUT	SQUARE NUTS	20
	WIRE BRUSH	1
	RIGHT ANGLE GRINDER	1
	SOAP STONE CHALK	1
	HAMMER	1
	MIG WELDER	1
	IR TEMEPRATURE METER	1
	TAPE MEASURE	1

Description:			Subject:						
		CALF	WELDING	E		REQUIRED			
W.I. Number: STPY-WI-0001	Operation No.	ххх	BOM / Assy Dwg No STP	/-304-A1	Product Line:	STOMPY	Rev: PRELIM	Page:	2 OF 22

PART NUMBER	DESCRIPTION	QTY
	WELDING WIRE	AR
	DEGREASER	AR
	GRINDING WHEELS	AR
STPY-304-4	SHOCK PLATE, CALF, 1/4	1
STPY-304-3	TAB, SHOCK MOUNT, CALF, 1/4	2
STPY-304-2	SIDE PLATE, CALF, 3/16	2
STPY-304-1	RIB PLATE, CALF, 11 GA	7
STPY-304-11	REAR FOOT GUSSET, CALF, 3/16	1
STPY-304-10	FOOT ANGLED PLATE, CALF, 11 GA	2
STPY-304-9	FRONT FOOT GUSSET, CALF, 11 GA	1
STPY-304-8	BOTTOM BRIDGING PLATE, CALF, 3/16	1
STPY-304-7	BOTTOM ANGLED PLATE, CALF, 11 GA	2
STPY-304-6	TOP ANGLED PLATE, CALF, 11 GA	2
STPY-304-5	KNEE CAP, CALF, 11 GA	1

Description:			Subject:						
		CALF	WELDING		PARTS	REQUIRED			
W.I. Number: STPY-WI-0001	Operation No.	xxx	BOM / Assy Dwg No STP). /-304-A1	Product Line:	STOMPY	Rev: PRELIM	Page:	3 OF 22



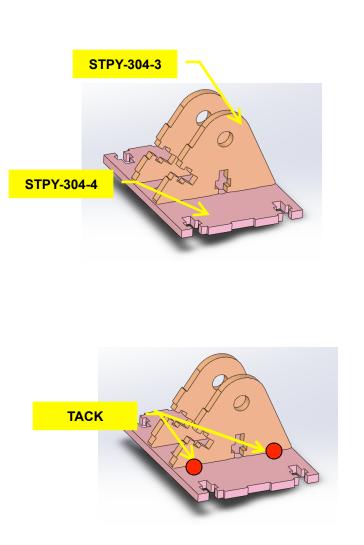
CAUTION: Safety glasses are required throughout this operation.

Always use personal safety precautions outlined in a MSDS for any specific chemical. If you have any questions in reference to handling chemicals, refer to the appropriate MSDS or ask your group leader and/or supervisor.

Description:			Subject:						
		CALF		SAFETY	& IMPORTA	NT NOTES			
W.I. Number: STPY-WI-0001	Operation No.	xxx	BOM / Assy Dwg No STP	/-304-A1	Product Line:	STOMPY	Rev: PRELIM	Page:	4 OF 22

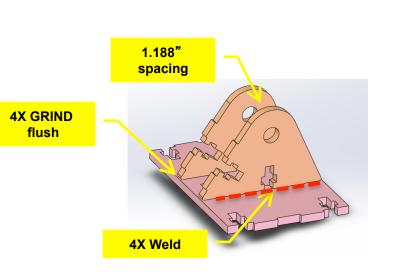
- 1. Gather all of the cut plates for the **STPY-304-A1** Assembly and inspect each for defects, dross, and cleanliness.
- 2. If any dross/dirt/rust or other imperfections are present within 1.5" of the weld zone use a **WIRE BRUSH** or **RIGHT ANGLE GRINDER** to clean the region until bright silver steel is present.
- 3. FIXTURE the bottoms of 2X of STPY-304-3 to the top of STPY-304-4 using the 1/4-20 BHCS and 1/4-20 SQUARE NUTS.

- **4. TACK WELD** both **STPY-304-3** to **STPY-304-4** using 2 tacks per plate side. Tacks to be
 1" to 2" from end of plate. **CLEAN** the tacks with a **WIRE BRUSH**.
- 5. **REMOVE** the bolts and nuts.

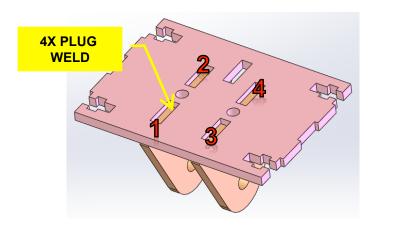


Description:				Subject:					
		CALF	WELDING		PR	OCEDURE			
W.I. Number: STPY-WI-0001	Operation No.	xxx	BOM / Assy Dwg No STP). Y-304-A1	Product Line:	STOMPY	Rev: PRELIM	Page:	5 OF 22

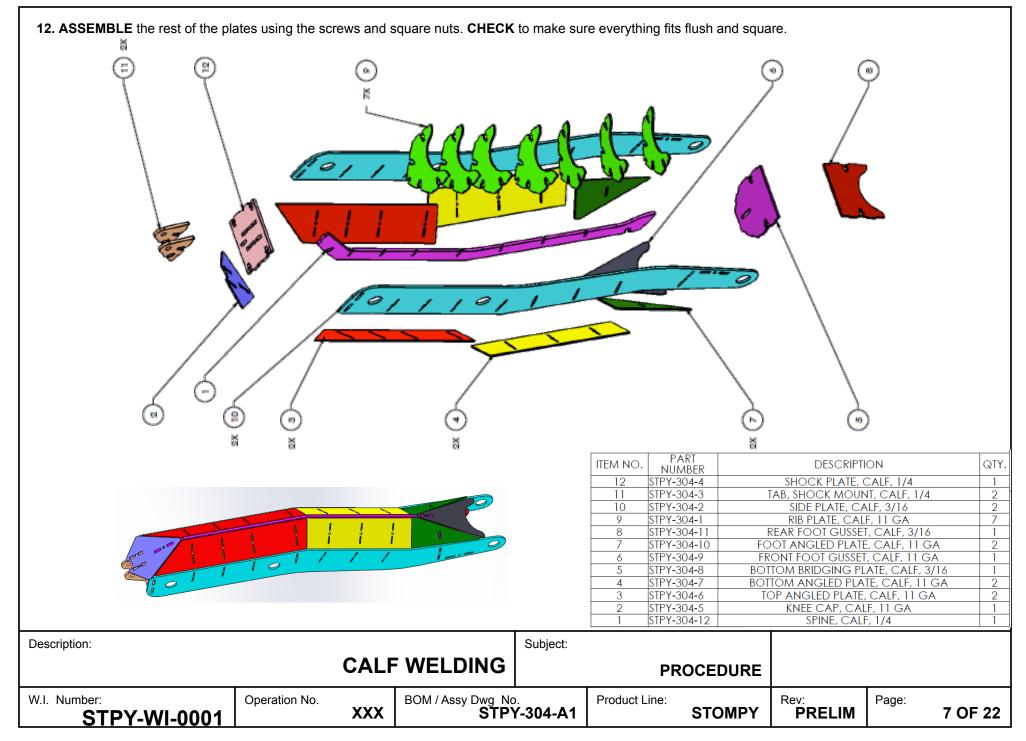
- 6. FILLET WELD both sides of the plates ending 1" from the ends
- 7. CHECK the spacing to be 1.313" btwn the tabs
- 8. Allow the assembly to cool and clean the welds using a **WIRE BRUSH**.
- **9. WRAP WELD** the ends of the plates.
- 10. Allow the assembly to cool and **GRIND** the weld ends to be flush w/ **STPY-304-4**.

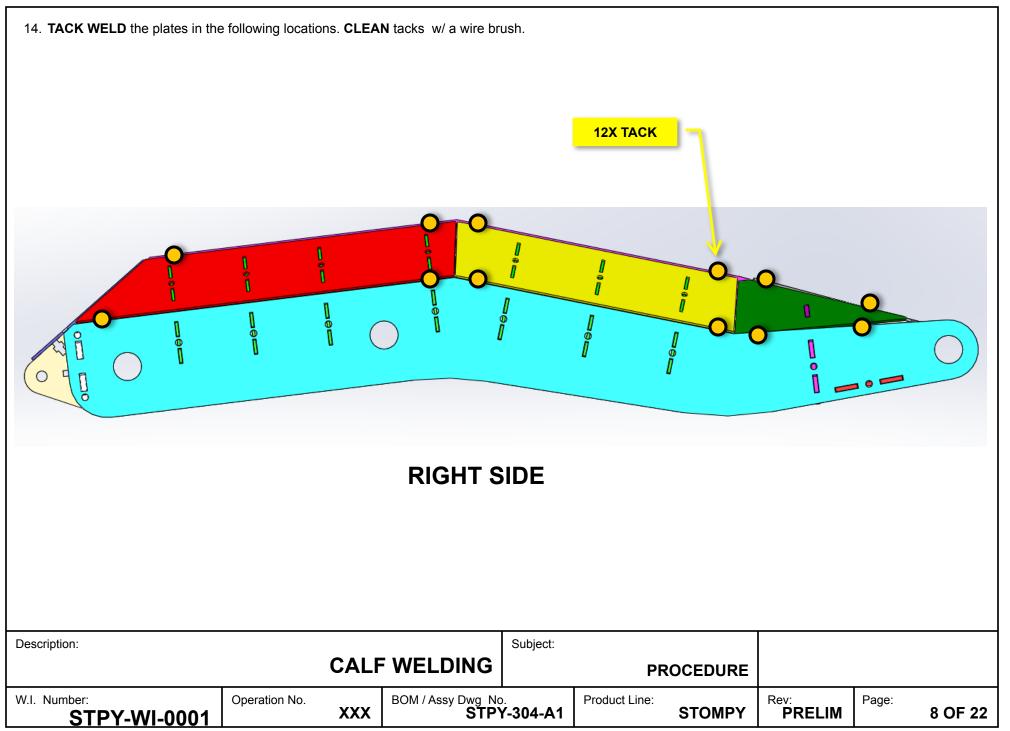


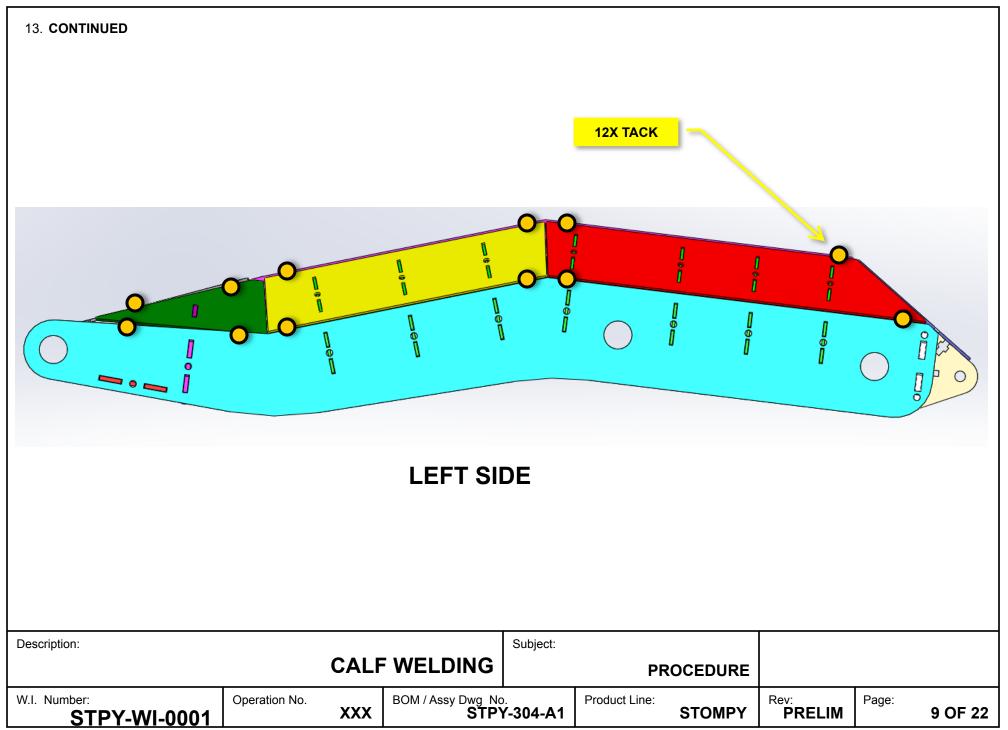
11. Flip the assembly and **PLUG WELD** the tabs into the slots. Follow the weld order 1 through 4. **CHECK** the temperature of the metal 3" away from the weld zone to make sure it NEVER goes above 160F after each plug weld.



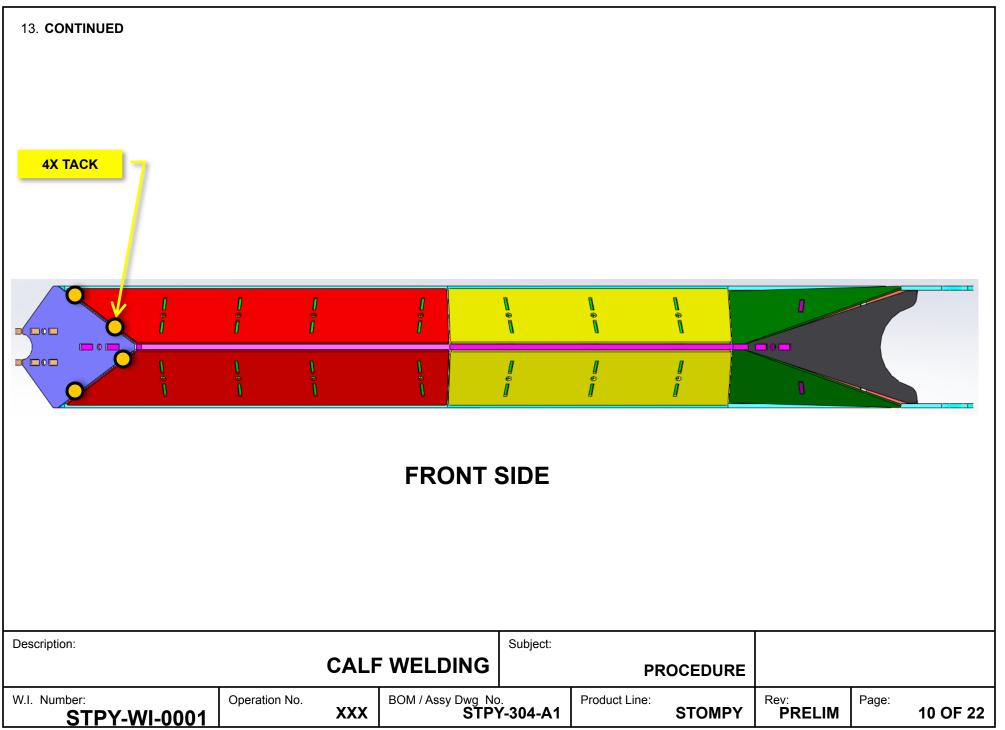
Description:			Subject:						
		CALF			PR	OCEDURE			
W.I. Number: STPY-WI-0001	Operation No.	xxx	BOM / Assy Dwg No STP	/-304-A1	Product Line:	STOMPY	Rev: PRELIM	Page:	6 OF 22



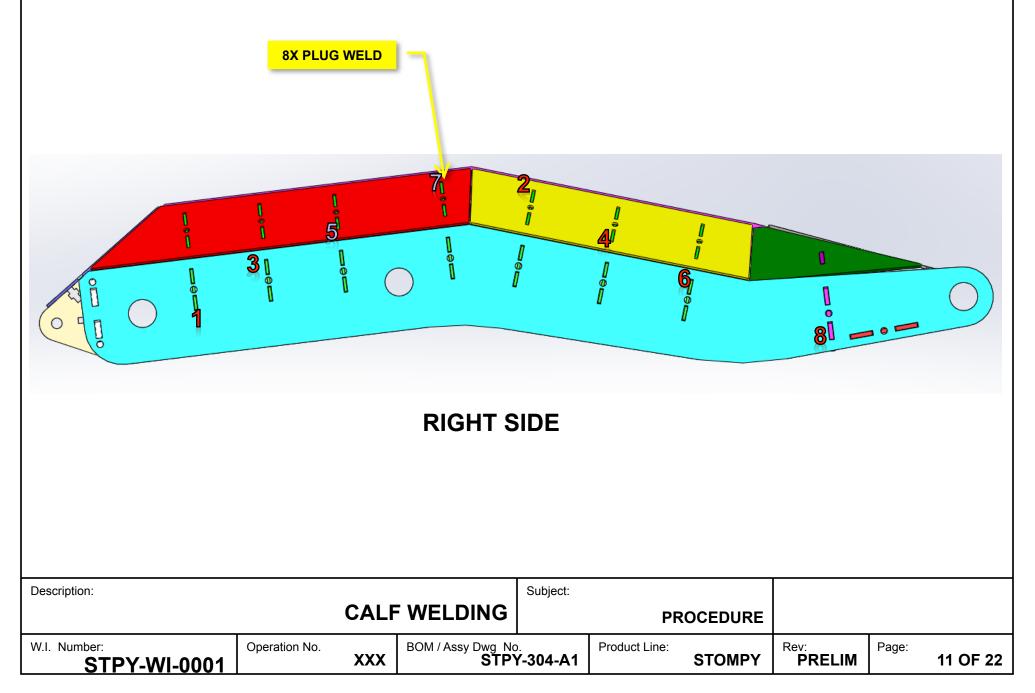


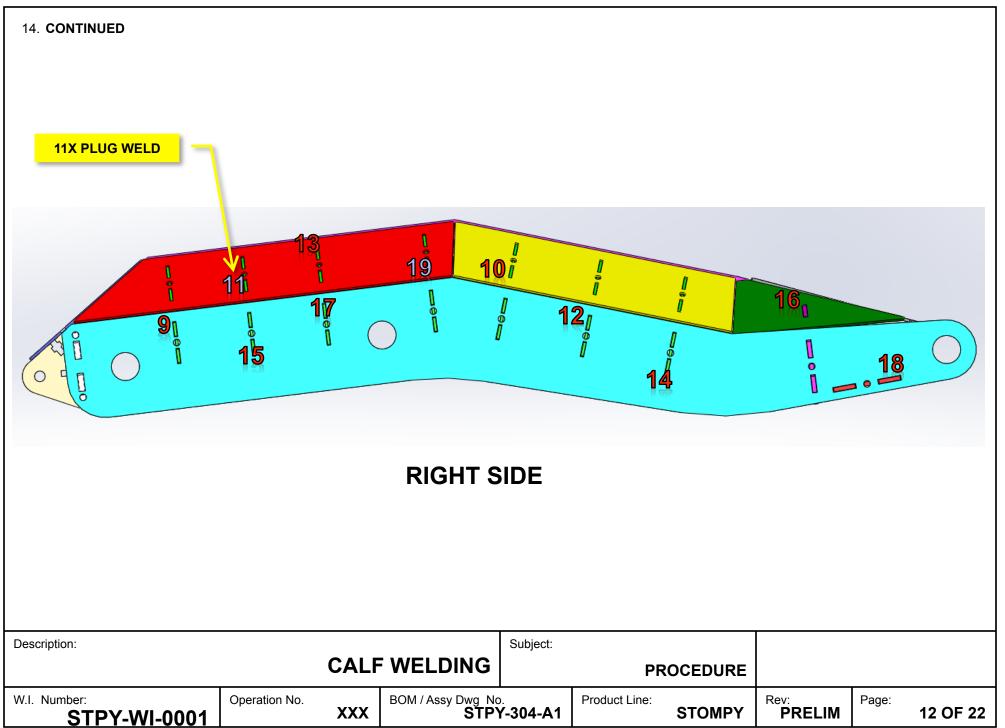


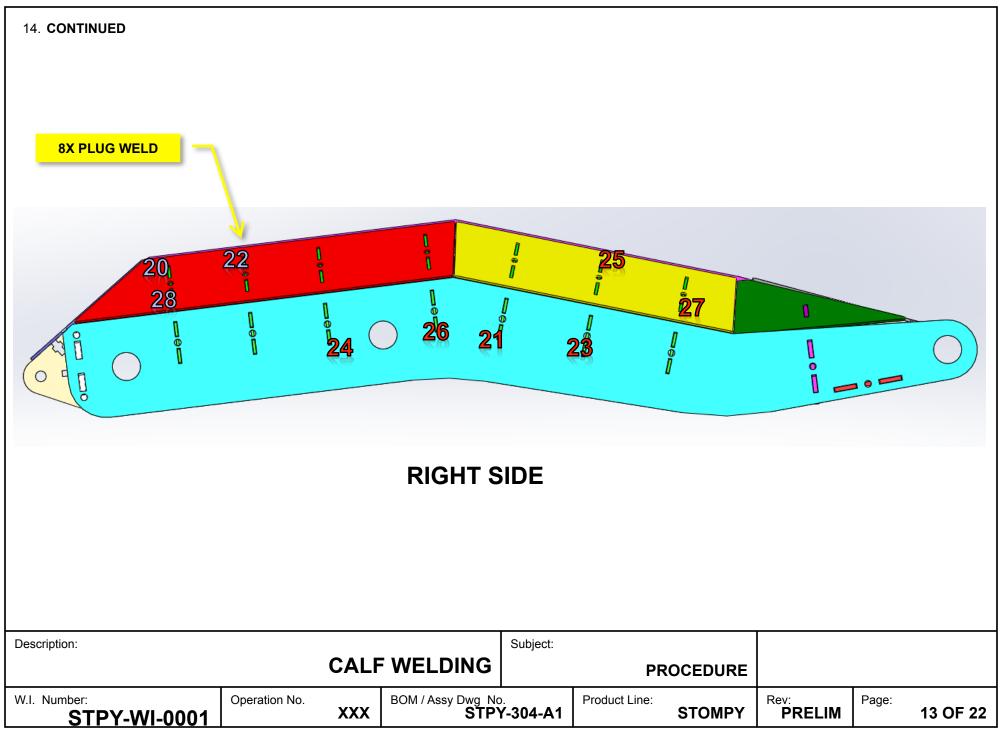
PROJECT HEXAPOD WORK INSTRUCTION

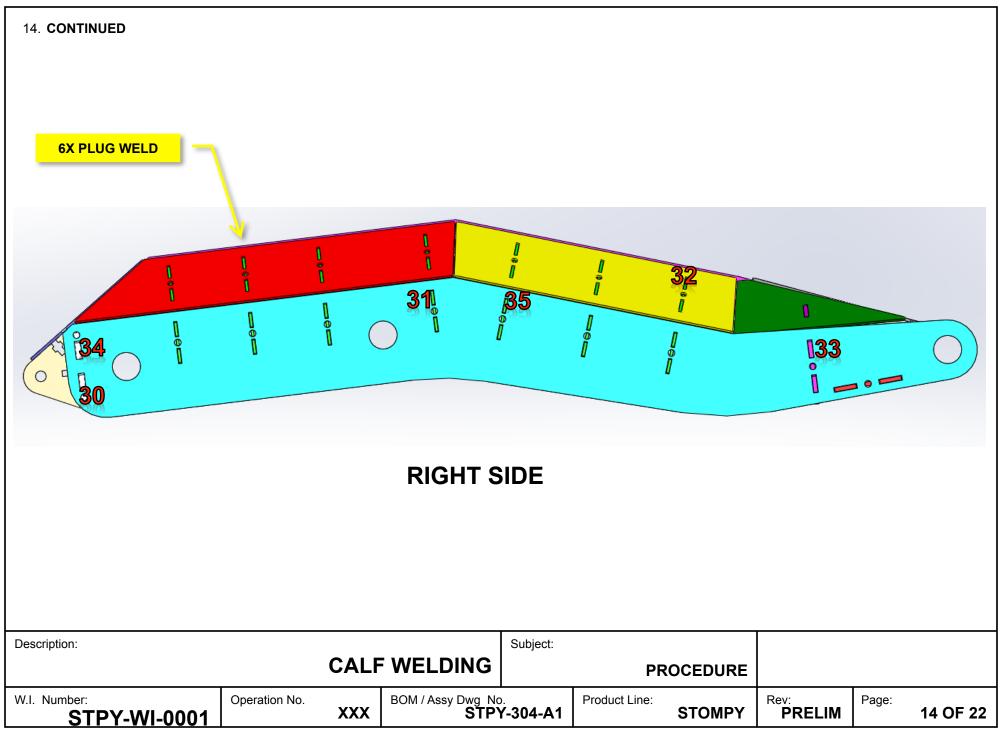


14. PLUG WELD the plates on the RIGHT SIDE in the following locations and order. CHECK the temperature of the metal 3" away from the weld zone to make sure it NEVER goes above 160F after each plug weld. CLEAN welds w/ a wire brush.

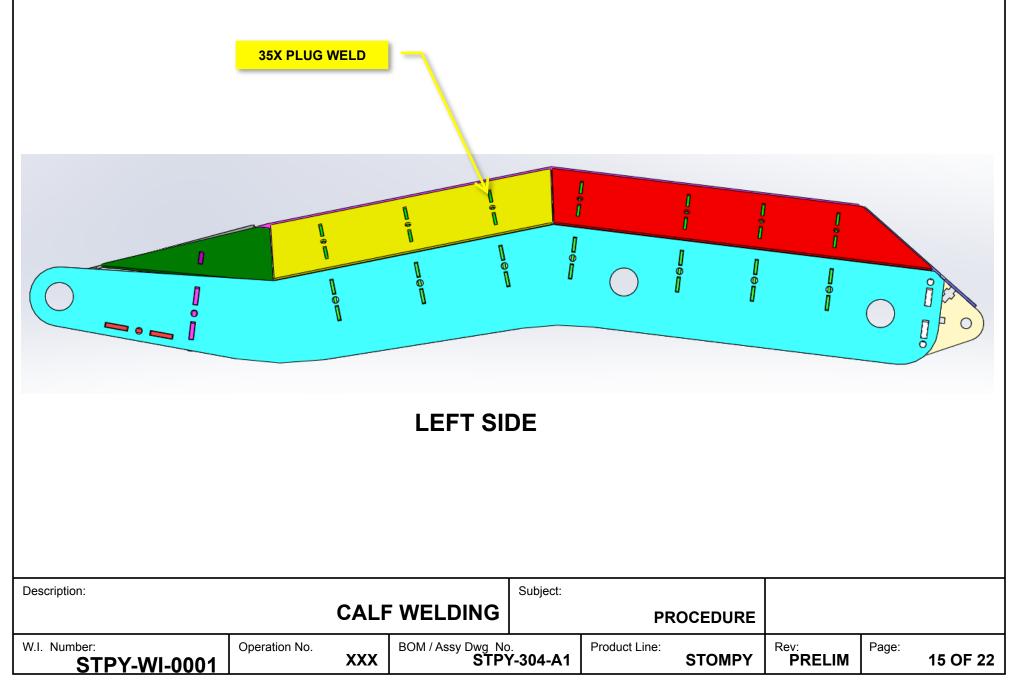




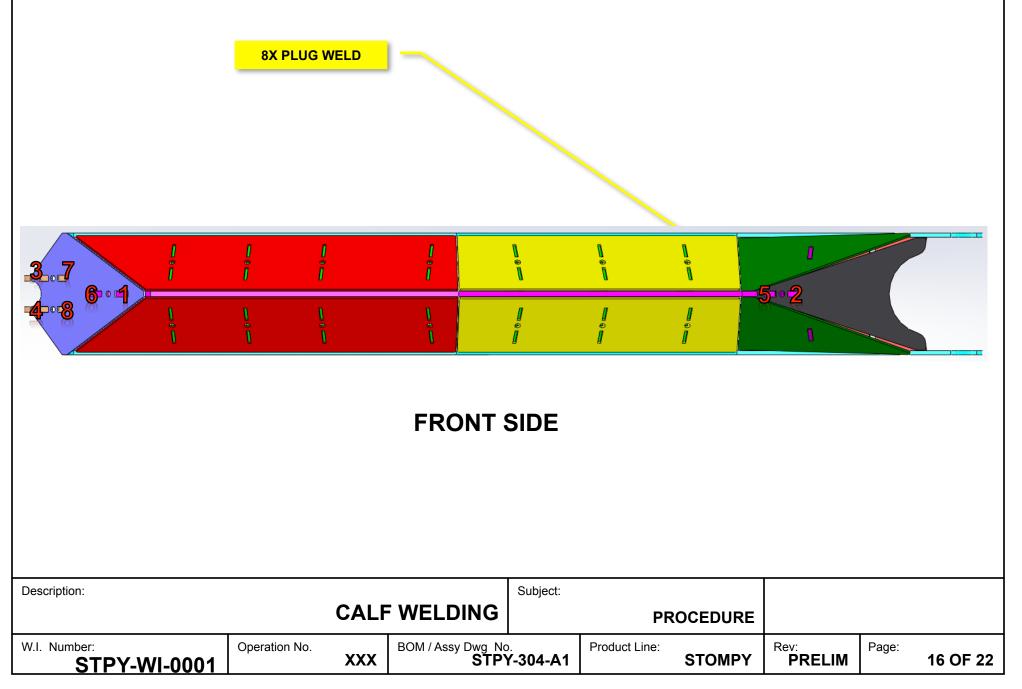




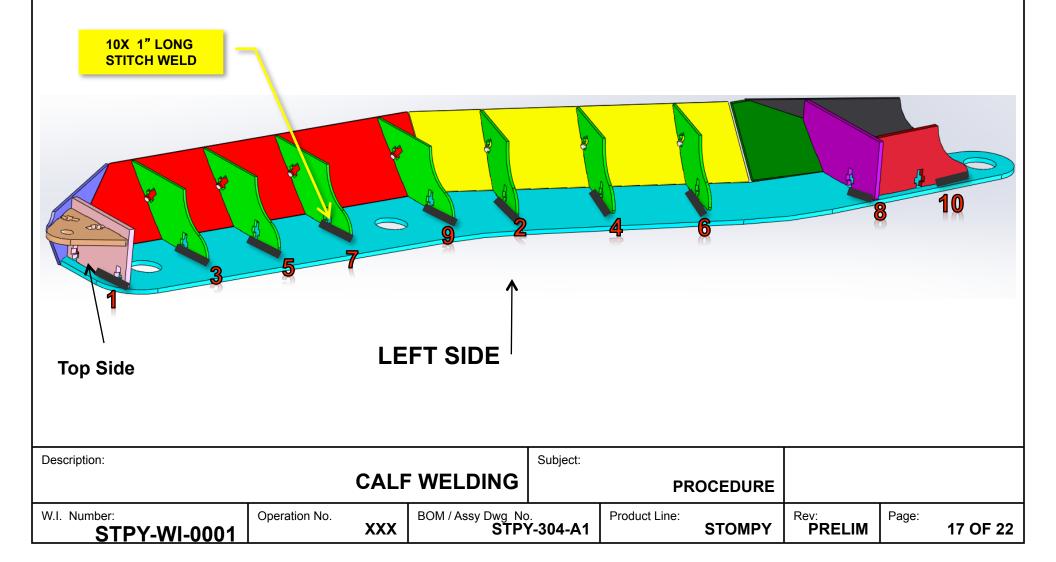
15. PLUG WELD the plates on the LEFT SIDE in the same pattern as the RIGHT SIDE. CHECK the temperature of the metal 3" away from the weld zone to make sure it NEVER goes above 160F after each plug weld. CLEAN welds w/ a wire brush.



16. PLUG WELD the plates on the FRONT SIDE in the following locations and order. CHECK the temperature of the metal 3" away from the weld zone to make sure it NEVER goes above 160F after each plug weld. CLEAN welds w/ a wire brush.



- 17. REMOVE all of the SCREWS and NUTS and save. CLEAN all of the plug welds with a wire brush.
- **18. STITCH WELD** the **TOP** insides of the assembly in the following order. Welds to be 1" to 1.5" long.
- **19. AFTER** 5 WELDS **SWITCH** to the RIGHT side and repeat 1-5.
- **20. SWITCH** back to the LEFT and complete welds 6-10.
- **21. SWITCH** back to the RIGHT and finish 6-10 there as well.
- 22. CLEAN welds with a wire brush.



RIGHT SIDE (hidden)

RIGHT SIDE (hidden)

23. STITCH WELD the TOP insides of the assembly in the following order. Welds to be 1" to 1.5" long and BRIDGE the angled plates as shown.

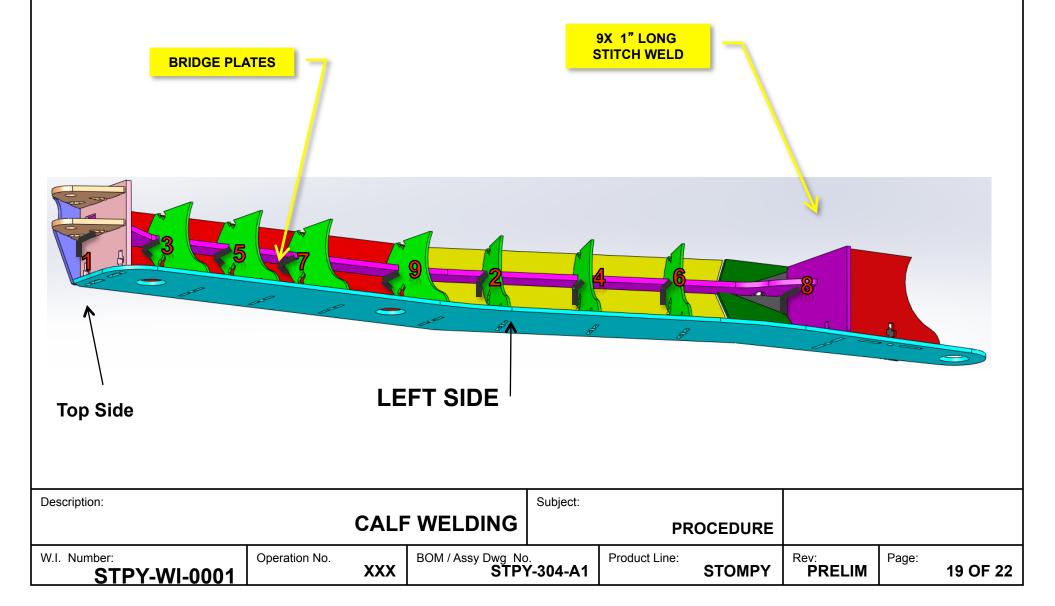
- 24. AFTER 5 WELDS SWITCH to the RIGHT side and repeat 1-5.
- **25. SWITCH** back to the LEFT and complete welds 6-10.
- **26. SWITCH** back to the RIGHT and finish 6-10 there as well.
- **27. CLEAN** welds with a wire brush.

10X 1" LONG STITCH WELD **BRIDGE PLATES LEFT SIDE Top Side** Subject: Description: **CALF WELDING** PROCEDURE BOM / Assy Dwg No. STPY-304-A1 Page: W.I. Number: Operation No. Product Line: Rev: XXX STOMPY PRELIM 18 OF 22 **STPY-WI-0001**

28. STITCH WELD the TOP insides of the assembly in the following order. Welds to be 1" to 1.5" long and BRIDGE the angled plates to the SPINE as shown.

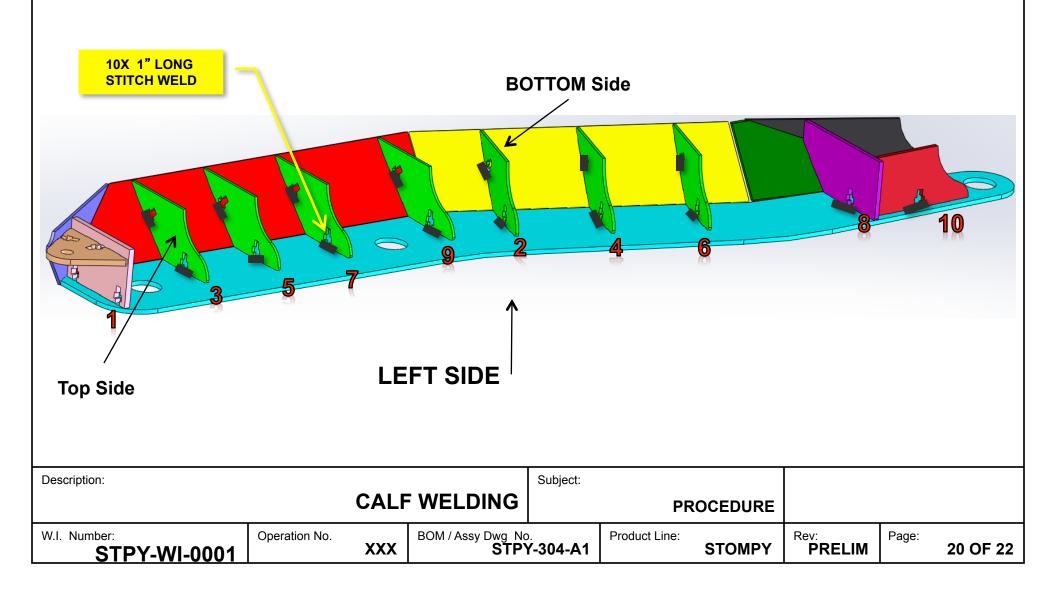
- **29. AFTER** 5 WELDS **SWITCH** to the RIGHT side and repeat 1-5.
- **30. SWITCH** back to the LEFT and complete welds 6-9.
- **31. SWITCH** back to the RIGHT and finish 6-9 there as well.
- **32. CLEAN** welds with a wire brush.

RIGHT SIDE (hidden)

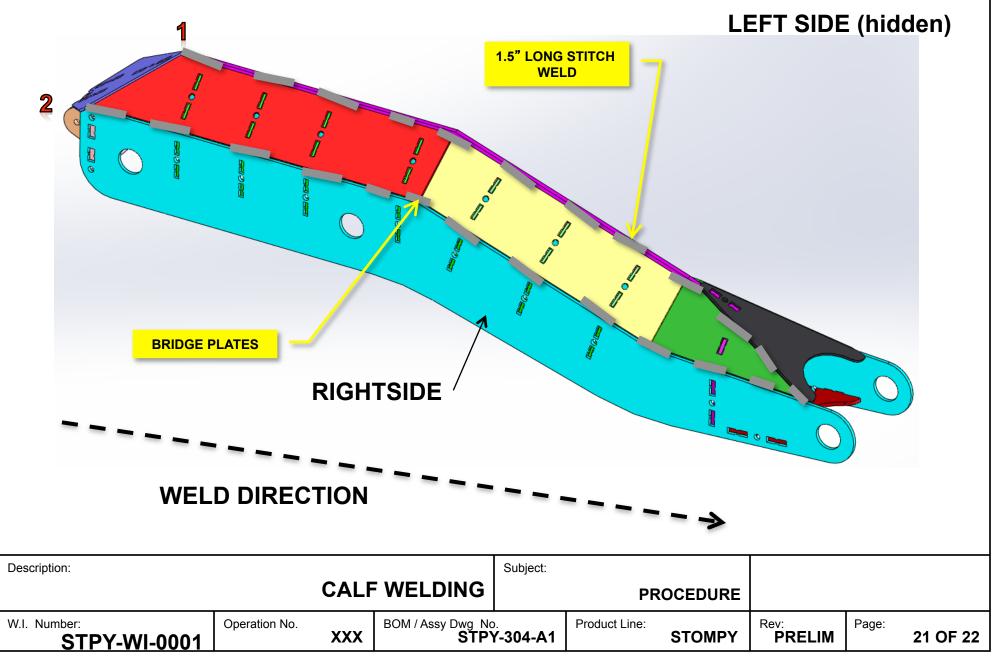


- 33. After TOPS and BOTTOMS are welded and CLEANED, **WELD** a STITCH over the base of the **t** shaped cutouts in the following order LEFT and RIGHT sides as before.
- **34. REPEAT** steps **18** through **33** for the BOTTOM SIDE of the RIBS.





- 34. STITCH WELD 1.5" to 2" welds w/ same spacing along the seams as indicated in order from page left to page right. BRIDGE plates at intersections. **CHECK** the temperature of the metal 3" away from the weld zone to make sure it NEVER goes above 160F
- **35. REPEAT** step 34 on the LEFT side of the leg.



- 36. CLEAN welds from previous stitch welding using a WIRE BRUSH.
- 37. STITCH WELD 1.5" to 2" welds w/ same spacing along the seams as indicated in order from page left to page right. BRIDGE plates at intersections. **CHECK** the temperature of the metal 3" away from the weld zone to make sure it NEVER goes above 160F
- **38. REPEAT** step 37 on the LEFT side of the leg.

LEFT SIDE (hidden)

