

# HILMAR HIGH SCHOOL

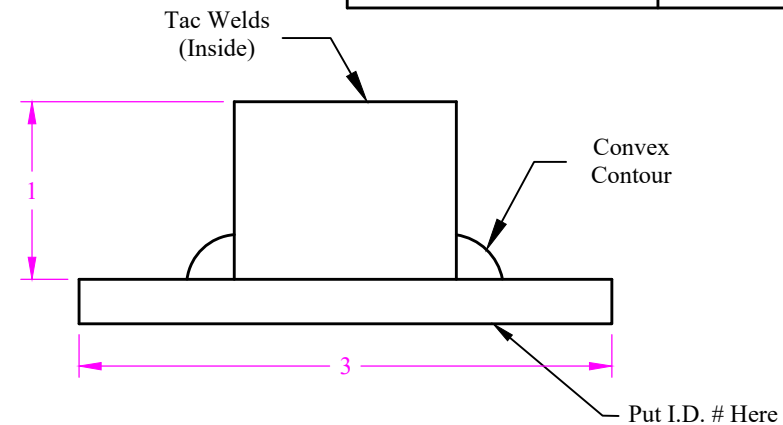
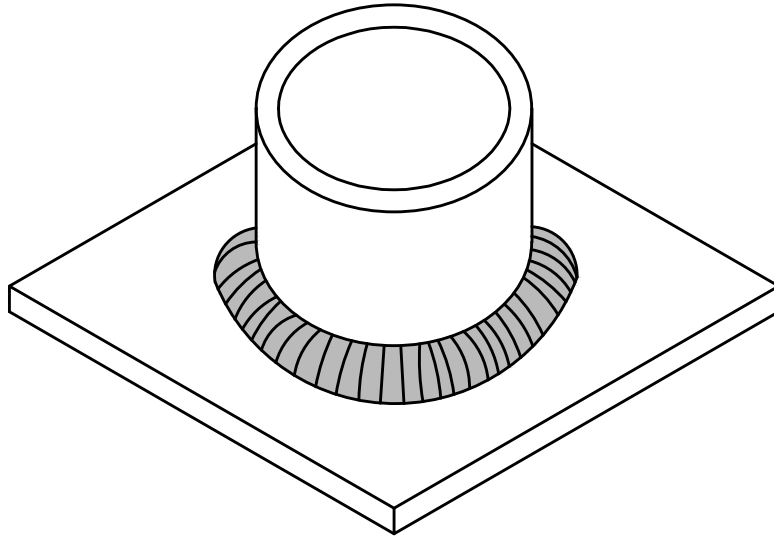
## Arc Welding

Pipe to Plate

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

I.D #: \_\_\_\_\_



### Materials:

- 1-  $\frac{3}{16}$ " or  $\frac{1}{4}$ " plate, 3" x 3"
- 1- 1- $\frac{1}{4}$ " Black Pipe, 1" Long
- 6011 or 6010 x  $\frac{1}{8}$ " welding rod

### Instructions:

1. Make sure you have on hand the appropriate safety gear and to wear it at all times.
2. Set up and tack weld the pieces as indicated in the diagram.
3. Perform a single pass fillet weld around the pipe (as indicated on the diagram).
4. Weld will be graded on correctness, uniformity, smoothness, and placement.
5. General Consideration is given to layout, neatness, and overall workmanship.
6. Be sure that your ID # is stamped on the project.

Bead Uniformity	(15)	
Bead Correctness	(15)	
Fusion of Bead to Pipe & Plate	(20)	
Evidence of Undercutting	(10)	
Leak Test	(20)	
Slag Removal	(10)	
General Consideration	(10)	
<b>TOTAL SCORE = (100)</b>		