PROJECT 7—WATERTIGHT-DOOR HINGE ASSEMBLY

Introduction:

This assembly drawing includes detail drawings. Dimensions are given in millimeters.

Construction:

- Refer to the Project 7 print.
- Layout and construct the assembly from foam board and PVC pipe.

Assembly Notes:

Study the assembly print and determine a sequence for welding that will allow all welds to be completed, then tack-weld the assembly prior to final welding. A pair of 20mm thick "parallel bars" cut from the left-over 5/8" foam board could be useful during assembly to support the model.

Worksheet Questions:

1.	On the BOM, fill in the quantity and size for each part (in millimeters), and convert the sizes to inches to the nearest $\frac{1}{8}$ inch.	(answer on BOM or and/or on next page)
2.	In the top view, what is the vertical distance from the	
	top of part 1 to the centerline of part 2?	
3.	What is the center-to-center distance between parts 5?	
4.	What type of weld joins parts 3 and 5?	
5.	What is the tolerance on the angles on part 3?	

Graphic for Question 1:

PART	QTY	DESCRIPTION	SIZE (MILLIMETERS)	SIZE (INCHES)
1		BASE		
2		BRG-VERT		
3		WEB		
4		RIB		
5		BRG-HORIZ		



