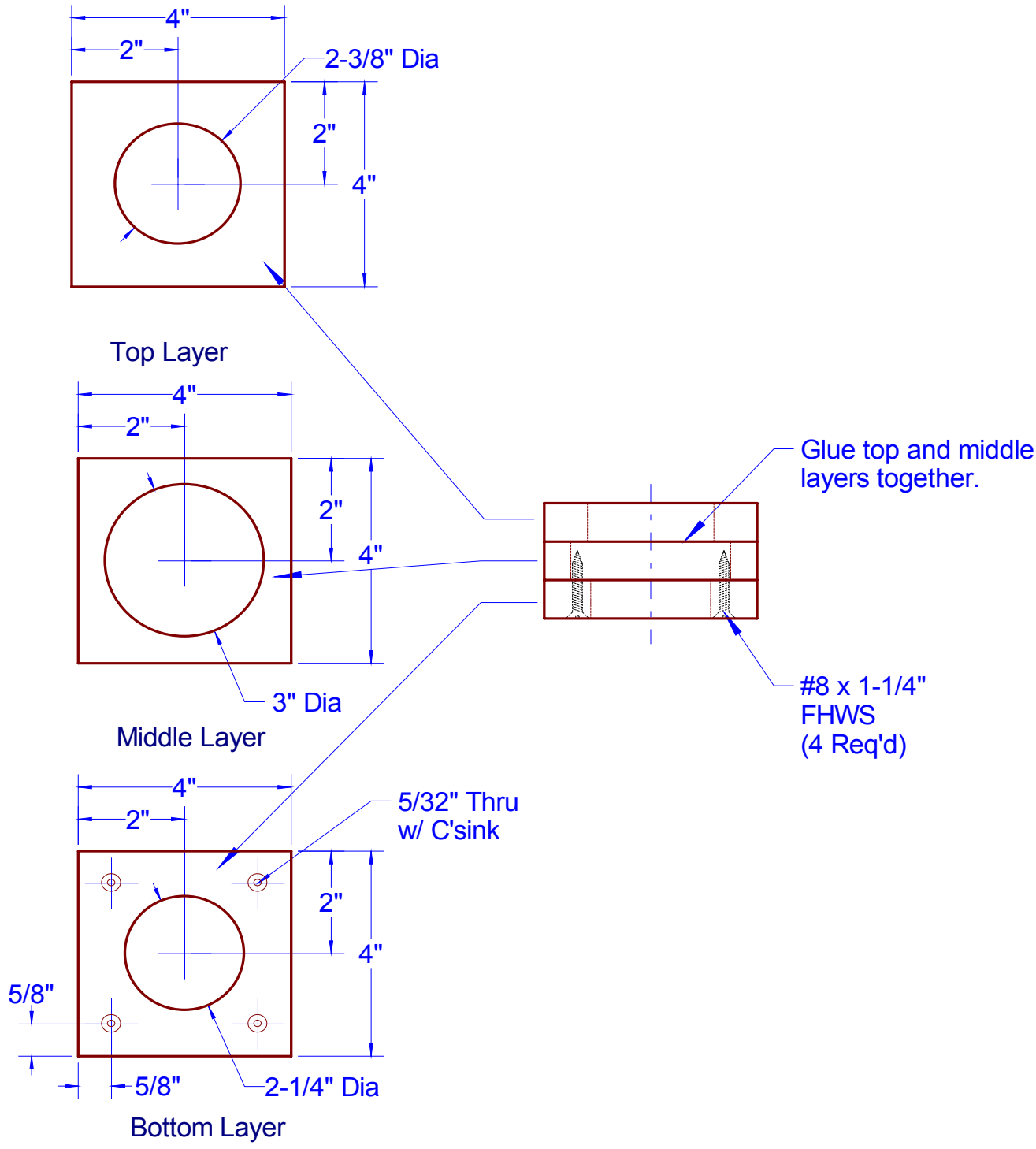




DESIGNING DUST COLLECTION SYSTEMS

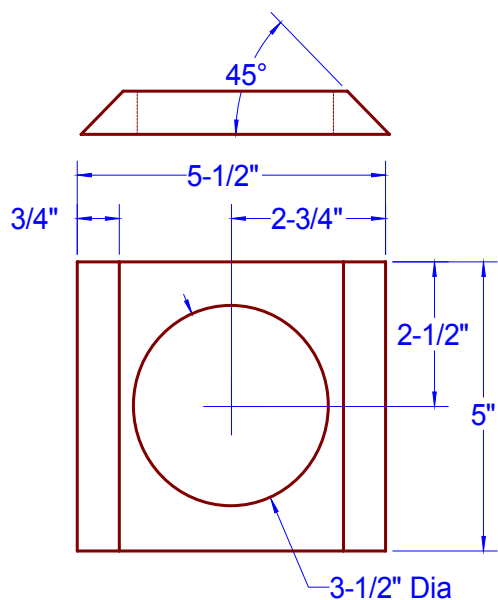
DUST COLLECTION



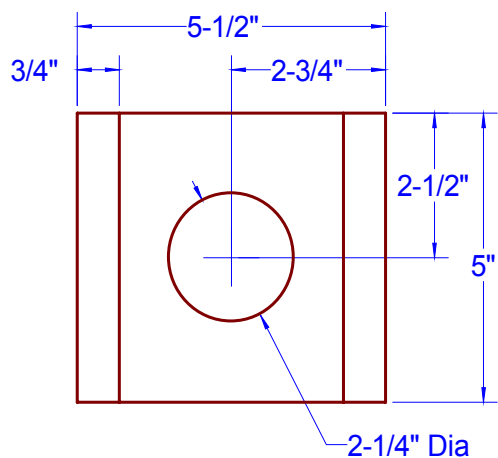
Straight Pipe Terminal
(For 2" PVC Pipe)



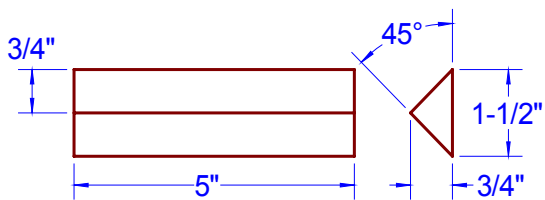
DUST COLLECTION



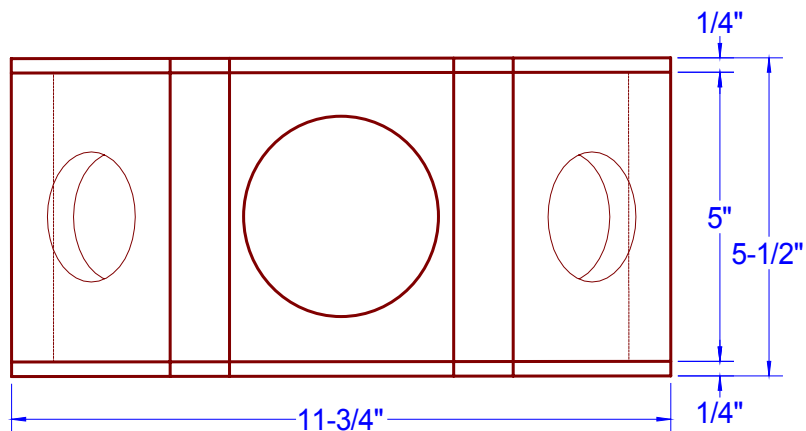
Top Plate (Make 1)



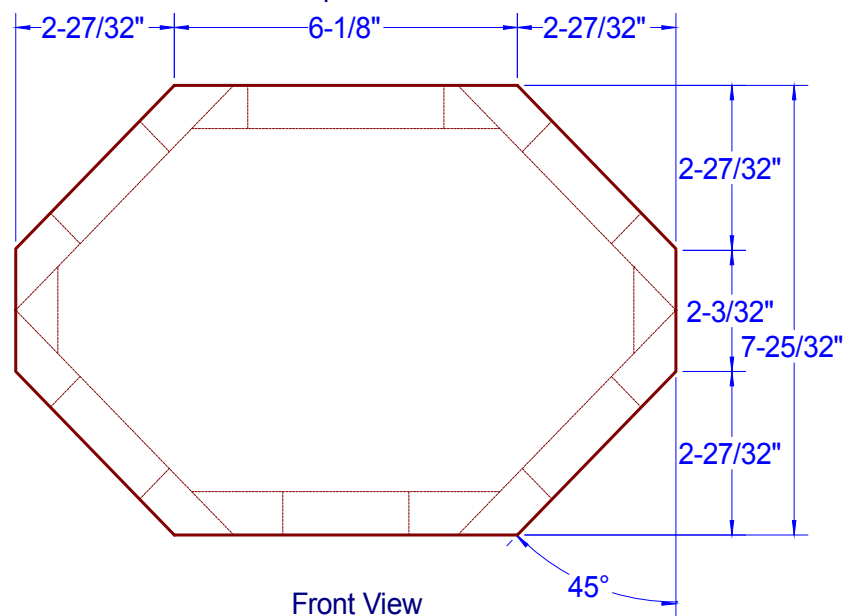
Side/Bottom Plates (Make 5)



Glue Block (Make 2)



Top View



Front View

Octopus
(For 3" PVC Pipe)



DUST COLLECTION

Required Velocity for Start of Run: No less than 3500 FPM

Required Velocity for End of Run: No less than 4000 FPM

Area [square inches] = $\pi \times (\text{Pipe Radius in inches})^2$

Velocity [FPM] = Volume [CFM of Dust Collector] \div (Area \div 144)

<i>Drop In Static Pressure for Straight Pipe, per linear foot.</i>			
	3500 FPM	4000 FPM	4500 FPM
<i>2" Dia</i>	0.105 in.	0.120 in.	0.132 in.
<i>3" Dia</i>	0.075 in.	0.100 in.	0.110 in.
<i>4" Dia</i>	0.055 in.	0.070 in.	0.085 in.

<i>Drop In Static Pressure for Pipe Fittings, per fitting</i>		
	90° Elbow or T-connector	45° Elbow or Y-connector
<i>2" Dia</i>	0.420 in.	0.210 in.
<i>3" Dia</i>	0.375 in.	0.188 in.
<i>4" Dia</i>	0.330 in.	0.165 in.

Static Pressure of Dust Collector > Σ of Static Pressure Drop for Longest Run

