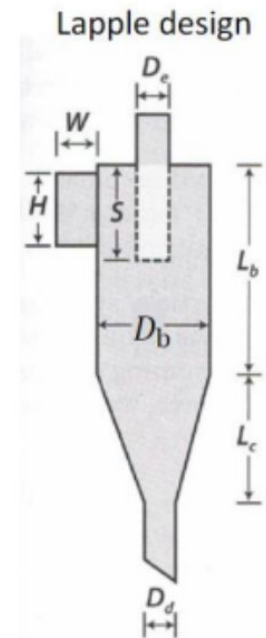
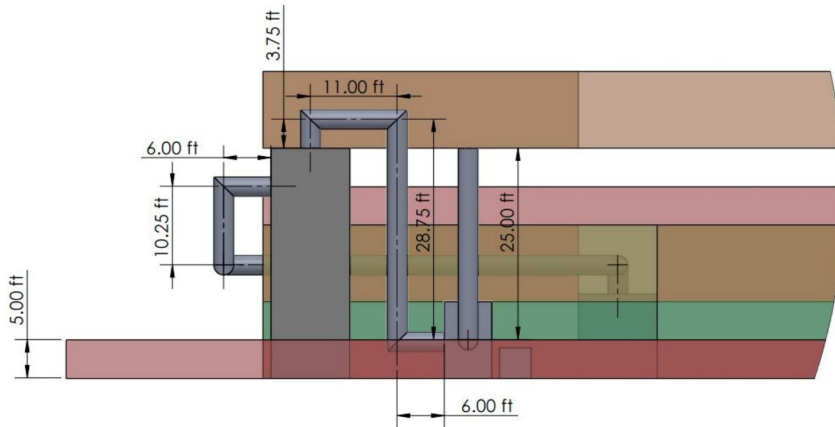


# Ductwork and Air Pollution Control System Design



## What?

Design ductwork, fans, and cyclones for air pollution and control applications.

Optimized ductwork system for kaolin process gas streams.

## How?

Used SOLIDWORKS to CAD a model of the ductwork.

Designed a ducting system and cyclone to run at 16,000 acfm.

Performed a cost analysis for duct size, cyclone, fan, and other related applications.

## Results

Achieved a 20% reduction in pressure losses while maintaining efficient air velocity.

Created a successful bid totaling \$48,000 with a cyclone collection efficiency of 79%.