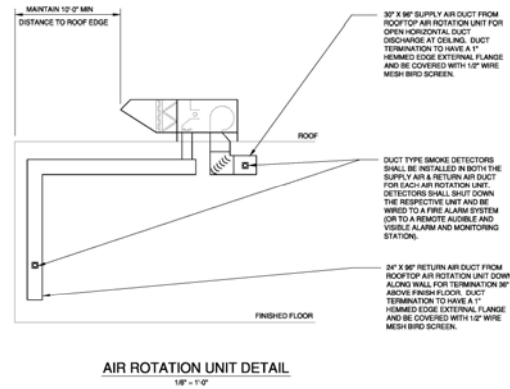


Federal Express New Sort Facility

Project Location: **Canton, Ohio**

Project Date: **1997**



Project Description:

A new sort facility for Federal Express. The facility includes 38,000 square foot of vehicle transit and sort area, 2200 square foot of vehicle maintenance garage, and 5100 square foot of office space.

The plumbing system design includes trench drains, sand interceptors and oil interceptors to handle carry-over of road / weather debris from the vehicles as well as vehicle wash and service. In addition, oil and compressed air equipment, piping and hose reels are provided in the service area.

Special HVAC design consideration for the sort area was necessary due to the constant heavy vehicle traffic in and out of the facility. The heating system not only had to account for the heat loss from the frequent overhead door openings; but also for the cold vehicle mass. The ventilation system had to account for the engine exhaust from vehicle traffic to keep CO (carbon monoxide) levels within acceptable range.

Five (5) Rooftop Exhaust Fans (12,800 CFM each) ducted to the floor and controlled by CO Monitors maintain the Indoor Air Quality. Two (2) Rooftop Heating & Ventilating Direct Gas Fired Air Rotation type units (32,000 CFM & 2138 MBH each) with outdoor air ventilation damper controls responding to building space pressure sensors maintain heat and make-up air requirements. The office space is served by two (2) 7-1/2 Ton gas/electric packaged Rooftop Heating and Air Conditioning Units.