



**PROJECT:**

**Replace Roof-Top Exhaust Fans, Portland Veteran Affairs Medical Center, Portland, OR**

This project required a complete Mechanical and Electrical design; including specifications, and removal and replacement of the 9<sup>th</sup> Floor roof-top exhaust fans; including all necessary components to provide a functioning system at the VA Hospital in Portland, Oregon.

Prior to construction, Cherokee Construction Services, as the **prime contractor**, went through 3 design iterations to ensure that each exhaust fan scheduled for replacement met the CFM requirements, and allowed for further expansion, if required.

After finalizing the design with the US Army Corps of Engineers and the Portland VA, construction entailed removal of the old exhaust fans and ductwork, installation of new exhaust fans and transitional ductwork, replacement of the pneumatic tubing and conduit, and installation of new disconnect switches, dampers, actuators and proving switches. The work also entailed testing and balancing the new exhaust fans, and the installation of exterior duct insulation and Alumaguard.

The biggest challenge throughout this project was coordinating the shutdowns of each exhaust fan; as each exhaust fan had varying timelines that the fan could be down. To accomplish this, we broke the construction into 3 phases. Each phase of construction was scheduled and coordinated with the Portland VA Representatives in advance in an effort to minimize the impacts on the operations of the hospital. Utilizing a comprehensive schedule, along with daily communication, Cherokee Construction Services completed the project on schedule despite the delays in design.

**Project Highlights:**

- 100% Design-Build
- 3 Construction Phases
- Critical Crane Lifts
- Hospital Remained Fully Functional & Operational During Construction

**Project Vitals:**

- **Client:** US Army Corps of Engineers, Seattle District
- **Location:** Portland, Oregon
- **Contract Amount:** \$ 576,274.10
- **Contract #:** W912DW-09-D-1007 #0001
- **Duration:** September 2009 – August 2010
- **Amount Self-Performed:** 27%
- **NAICS Code:** 238220

