

Rapid Valley Fire Station



The Rapid Valley Fire Protection District needed to replace their aging volunteer fire department structure for numerous reasons. The mission had outgrown the existing facility plus 30 years of technological development since the last building project dictated the need for a modern facility. The resulting project consists of a 16,000 SF single story facility built on a greenfield site next to the existing Rapid Valley Fire Station. Included within the facility are seven apparatus bays, gear and weight rooms, bunk rooms, restrooms and laundry, meeting spaces, and a large meeting room. A modest sized kitchen is also included to serve emergency and routine community functions.

Project Data

Owner

Rapid Valley Fire Protection District

Location

S. Hwy 44 near Rapid Valley

Building Type

Fire Station

Building Area

16,000 square feet²

Mechanical Systems / Features

Radiant Heat
Vehicle Exhaust System
Rooftop VAV AHU
Energy Recovery Ventilator
Fan Powered VAV
Dry Type Sprinkler System
High Efficiency Boiler
Air Compressor

Electrical Systems / Features

Site Lighting
Occupancy Sensors
Emergency Generator
Lightning Protection

Construction Cost

\$3,500,000

Completion Date

Fall 2014

Mechanical Engineering

Apparatus bays are heated by radiant floors and each truck is served by a sliding rail active vehicle exhaust system. The office, meeting and bunk room areas are served by a gas fired rooftop unit that delivers a varying amount of air to the space based on load. All heating systems are redundant so as to avoid loss of heat due to equipment failure.

Electrical Engineering

Electrical infrastructure is sized and designed to serve the demanding needs of a fully functioning fire station. Lighting design utilizes practical fixtures for the application coupled with occupancy sensors for energy cost reduction. An emergency generator and associated distribution allows fire station operation through an extended power outage.

