

CURRY VILLAGE EMPLOYEE HOUSING

YOSEMITE NATIONAL PARK, CALIFORNIA

■ Energy/Modeling ■ Mechanical

Campus Geothermal Heat Pump System

Environmentally Sensitive Locale

Exceeds California 2001 Energy Code (Title 24) by 31%

National Park Service Environmental Achievement Award, 2008

Golden Gate Chapter ASHRAE Technology Award, 1st Place, 2007



Curry Village will provide housing for over 200 park employees in 180 studio units in four different floor plans with associated parking, an employee wellness center, management offices and storage. Our mechanical design features an energy-efficient ground-source heat-pump system with the ground field buried beneath the parking lot. This system limits visual and environmental impacts while meeting the owner's goals for higher quality housing for its staff. The ground-source heat pumps operate without ozone-depleting refrigerants, and provide individual temperature control in each room. This system eliminates the need for unsightly and noisy outdoor equipment, such as cooling towers and roof-top units, in this environmentally sensitive locale. It also provides space heating without the use of propane as a heating source, thereby eliminating the need for large propane tanks that require more frequent filling in this remote area. Our mechanical design includes heating as well as air conditioning for employee comfort and to meet the extreme winter and summer temperatures found in the Yosemite Valley. Our energy analysis resulted in a design that is 31% below California's 2001 energy code and qualified for a \$40,000 Savings By Design owner's incentive.



OWNER

U.S. National Park Service

SCOPE

78,000 SF

28 Buildings

SERVICES

HVAC, Plumbing, Fire Protection

Geothermal Heat Pump System

Energy Analysis

COST

\$21 Million

COMPLETED

2008

