



CASE STUDY: VALUE

CITY OF LAS VEGAS FIRE STATION 107

9398 Sundial Drive, Las Vegas, Nevada

Completed: 2012

Project Size: 7,800 sq. ft.

Project Cost: \$3.3 million

Architect: City of Las Vegas

Project Owner: City of Las Vegas

ICF Manufacturer: Fox Blocks



TAKING THE LEED AND BENEFITING THE COMMUNITY

When the City of Las Vegas mandated that all new city construction projects be LEED Silver Certified, builders knew just the material to use for the construction of two new fire stations. Insulated Concrete Forms (ICFs) were chosen as a way to meet LEED requirements without sacrificing the safety, resiliency and cost effectiveness the city needed in its municipal projects. The city was so pleased with the ICF construction of fire station 106 and 107, they ordered the material to be used in the construction of Fire Station 108. The city is also considering making ICFs the go-to product for all future municipal construction projects.

01. Reducing energy costs.

Energy costs are 38% lower than the standard baseline building referenced in LEED, thanks to the thermal envelope properties of ICFs paired with the building's use of a state-of-the-art HVAC compressor, a highly insulated roof and low-e performance windows.

02. Staying on schedule and under budget.

Thanks to the ease of ICF construction, the project was able to stay on schedule. Additionally, the project finished \$1 million under budget.

03. Taking a cue from its natural surroundings.

The architecture of the fire station incorporated natural stone veneer, Spanish roofing tiles and smooth plaster finishes in a warm color palette to complement the building's natural surroundings and construction style of homes in the area.

04. Meeting special design challenges.

The structural detailing on the project required the curved top of the ICF walls to match the radius of the steel roof beams. The ICF perimeter walls also continuously change in height. The ICFs used in construction had to be cut in various ways to meet these architectural demands.