

GREEN FIRE STATION BULLETIN



The City of Winter Haven will soon begin construction on a new Fire Station No. 1 that will replace the current station on Third Street Northwest, near City Hall. The Fire Services Department has outgrown the current station, which opened in 1967.

The 22,000-square-foot project for the new main Fire Station is an exciting one on two fronts. First it will be the City's first "green" certified building and its old "pioneer" Florida design will bring a great asset to the City's downtown area. The new facility, with its "tower" that is reminiscent of an old forestry fire tower, will be located at U.S. Highway 17 and Avenue G Southwest.

Here are some elements that will be incorporated into the construction to qualify the project for Silver LEED (Leadership in Energy and Environmental Design) certification:

- 🌱 Use of light concrete pavement to reduce "heat island" effects that occur with black asphalt parking areas.
- 🌱 Building design to be extremely energy efficient including: wall of precast concrete with higher insulation value.
- 🌱 The roofing system will be designed with minimal low slopes and incorporate reflective roof panes to minimize heat island effects.
- 🌱 Major materials used for the project will be obtained from regional suppliers to reduce trucking costs.
- 🌱 The project will be designed using low volatile organic compound materials and reduced hazardous chemicals including paints, coatings and carpet systems.
- 🌱 During construction, approximately 75 percent of waste will be diverted to landfills.
- 🌱 Reuse water to be used for irrigation, landscaping and flushing of toilets and urinals.
- 🌱 Water reducing plumbing systems.
- 🌱 Hot water reclamation system to generate hot water through the use of air handlers as heat exchangers.
- 🌱 Energy efficiency will be increased by 25 percent over similar buildings through the use of natural light in most occupied spaces to greatly reduce electrical lighting needs and motion sensors for the lighting control system.
- 🌱 Heating and air conditioning systems will be flexible and controllable, using variable control fans, multiple thermostats and volume boxes.
- 🌱 Native landscaping, requiring less irrigation, will be used.
- 🌱 Bicycle racks and showers will allow staff the opportunity to use alternate forms of transportation; and preferred parking will be available for those driving fuel-efficient vehicles and carpool participants.

March 10, 2009