LEED (Leadership in Energy and Environmental Design) is an internationally recognized green building certification program.

Public Works Administration & Emergency Operations Center and Public Works Operations Building

MBA
Architecture for the Human Experience
MASON BLAU AND ASSOCIATES, INC.

BILTMORE CONSTRUCTION

Facts and Features. . .

Totaling over 23,000 square feet, the two new single-story buildings are built to withstand a CAT 5 hurricane and enable the City to operate and coordinate emergency services and repairs, during and after a storm or emergency event. Both buildings are constructed to LEED or "green building" standards and anticipated to earn Gold or Platinum Certifications, the highest ranking attainable by the United Sates Green Building Council.

CAT 5 / EMERGENCY OPERATIONS FEATURES

- Designed to withstand a Category 5 hurricane (156 mph 1-minute sustained wind, 190 mph 3-second gusts)
- Self-contained to provide power, potable water, sewage disposal, and food storage for seven days including showers, lockers, and warming kitchen to sustain City emergency staff
- CAT 5/FEMA 361 rated store-front entry doors able to sustain tornado force winds
- CAT 5/FEMA 361 high-velocity impact windows

- All exterior Hollow-Metal and Roll-upDoors are FEMA 361 rated
- Back-up generators with hurricane-protected enclosures
- Structural concrete precast wall panels and double "T" precast concrete roof system

Both the Public Work Administration/EOC and Public Works Operations Buildings incorporate the most advanced building science techniques that will ultimately provide our citizen's with reduced operational costs while conserving energy and reducing our impact on our natural resources.

LEED / GREEN BUILDING FEATURES

- Photovoltaic (PV) Panels (solar) are installed on both roof systems which generate an estimated 86,732 Kw of electricity annually to provide electric power to the buildings, or enough power to run about 10 average homes per year. Excess, unused power produced on weekends, for example, is returned to the power grid or "sold" back to the power company to offset any power usage

- Solar Water Heating Panels, or solar thermal collectors provide direct heating of the hot water supply

Energy consumption will be reduced by more than 80% using these energy-saving measures:

- Solar Powered LED Parking Lights
- Interior lighting systems automatically turn off lighting in rooms that are unoccupied
- Low energy flourescent and LED lighting are primarily used throughout both buildings
- High-efficiency rated air conditioning systems

Water consumption will be reduced by more than 50% using these water-saving measures:

- Motion-activated low flow water faucets
- Ultra Low Flow toilets and urinals
- Florida-native and drought tolerant landscaping
- No landscaping irrigation systems

Recycling of materials and conservation measures were used throughout construction and selection of interior and exterior finishes to reduce the overall impact on our environment, both local and regional, and enhance the interior air quality of the buildings.

- Over 50% ofthe construction debris was diverted to recycling centers rather than landfills
- Over 20% recycled content building materials were used in construction
- Over 50% of the building materials were milled or manufactured within 500 miles of the building sites reducing energy consumption for delivery
- All interior finishes such as paints, furnishing, and floor coverings utilized Low VOC emitting materials (Volatile Organic Compounds that emit toxic gases or fumes that affect air quality)
- Bike racks and preferred parking spaces for Fuel Efficient or Hybrid Vehicles and Car pooling vehicles are provided to encourage the reduction in our carbon footprint