

**Pinellas County Public Works Emergency Responders Building  
and Vehicle Storage Building  
22211 U.S. Highway 19 North, Clearwater, Florida**

**Overall:**

- The cost of the project is \$30 million; paid for by Penny for Pinellas funds
- The design for the project commenced in July 2007 and construction substantial completion occurred June 30, 2010
- The project consists of two new buildings totaling 91,249 square feet.
- Both buildings are designed to resist hurricanes:
  - Both can withstand a CAT 5 event of 156 mph winds
  - Both are located above the 500-year Flood Plain
- Both buildings are LEED Certified
  - Energy efficiency and green building design were project requirements for these buildings using the most advanced building science techniques. Grid supplied electrical power usage is projected to be reduced more than 20% by the following measures:
    - High efficiency air conditioning systems
    - High R value building thermal insulation
    - Utilization fluorescent lighting controlled with occupancy sensors
    - Highly reflective roof coating to minimize solar heat gain
  - Reduced water consumption by 65% and waste water reduction by 70% with the installation of:
    - Grey water reuse system
    - Motion activated low flow faucets
    - Ultra Low Flow toilets and urinals
    - Utilized Florida Friendly Landscaping to minimize water requirements
    - Irrigation of landscaping to be limited to no permanent irrigation on both buildings
  - Diverting over 75% of the construction waste from landfill to recycling including the recycling of both of the existing buildings on the sites that were demolished
  - Utilized at least 20% recycled content materials in construction
  - Utilized at least 20% materials mined, milled and manufactured within 500 miles of the jobsite
  - Indoor Environmental Quality was also important to the projects, including:
    - All interior finishes utilize Low VOC materials
    - High efficiency HVAC air filtration systems with HEPA filtration
    - Temperature controls to allow for maximum efficiency of the HVAC system and comfort for the occupants
- Alternative/Green transportation was added to the project
  - Bike racks installed at both buildings
  - Preferred parking spaces for fuel efficient or hybrid vehicles
  - Preferred parking spaces for employees that carpool to work

**Building #1: The Public Works Emergency Responders Building:**

- 80,385 square feet
- Two-story building with tilt-wall concrete precast wall panels, flat concrete composite roof with structural steel interior structure
- The windows, swing doors and storefront doors are FEMA 361 impact tested (Tornado based code for shelters) and all other remaining openings are at least Miami Dade impact tested
- The building houses a total of fifteen (15) different sections from the Pinellas County Public Works Highway Department, including:
  - First Floor - The Intelligent Traffic System Primary Control Center (PCC), offices, commercial kitchen, dining and break room, warehouse storage, loading dock, sign shop, signal shop and an energy center
  - Second Floor - Operations (Highway Administration) and Customer Service, Human Resources, Business Management Division Team (BMDT), Fiscal and Contracts Sections and the mezzanine for Sign/Signal storage
- The Public Works staff storm shelter with seven day sustainability in case of a major storm event, including:
  - Male and female dormitories with bunk beds to sleep 50
  - Sanitary facilities, showers/locker rooms and laundry
  - Commercial kitchen can serve up to 300 meals a day
  - The Public Works emergency operations center is located on the second floor and will shelter Public Works emergency management staff during a storm event and become the center of operations for Public Works in the post storm environment
  - Three 750kw generators
  - Two chillers
  - Two 10,000-gallon fuel tanks
  - One 10,000-gallon potable water tank
  - Grey water tank storage
  - 5,000 gallon underground sewage tank

**Building #2: Vehicle Storage Building (VSB)**

- 10,864 square feet
- Storage to protect county vehicles during normal operations in nine bays with rolling overhead doors.
- The building has also been configured to shelter up to 32 county vehicles in a pre-storm configuration.
- The building includes additional power, data and phone drops and manual transfer switch for a portable generator

**Design/Build Team**

Contractor	Hennessy Construction Services	St. Petersburg
Architect	Bason Blau & Associates, Inc.	Clearwater
Civil/Landscape Engineer	Cardno/TBE Group	Clearwater
Structural Engineer	McCarthy and Associates, Inc.	Clearwater, FL
Mechanical/Plumbing/Fire Protection	Griner Engineering, Inc.	St. Petersburg, FL
Electrical Engineering	M.P. Sychala & Associates, Inc.	Oldsmar, FL
Interior Design	Bennett Design & Consulting, Inc.	Plant City, FL
Green Building Consultant	Two Trails, Inc.	Sarasota, FL
Intelligent Systems Engineer	HNTB Corporation	Tampa, FL
Intelligent Systems Design	Transdyn, Inc.	Chantilly, VA
Roof Consultant	Owen F. Baynard	Tarpon Springs, FL
Acoustical Engineer	Keane Acoustics, Inc.	Oldsmar, FL