

## Fire Station and Air Operations Facility



Rendering Courtesy of Bullock Tice Associates

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#### FEFPA Summer Conference

Please visit us at **Booth 902** at this year's Florida Educational Facilities Planners' Association's (FEFPA) Summer Conference held at the Boca Raton Resort & Club, July 7-10th.

*We will again have the espresso machines grinding away to provide you with that extra pep in your step throughout the conference.*

## Construction is underway at Naval Air Station Meridian:

Yates Construction Company began construction last month for the new \$6 million, 9,709 square foot Fire Station and Air Operations Facility located at OLF Joe Williams at the Naval Air Station in Meridian, Mississippi. Schmidt Consulting Group, alongside Bullock Tice Associates (Architect), provided Mechanical, Electrical, Plumbing, Communications, and Structural design services for this Design/Build project.

The Fire Station and Air Operations Facility is SCG's thirteenth fire station project and second at NAS Meridian. Our firm provided design services in 2004 for the \$5 million, 16,495 square foot NAS Meridian Combined Structural and Aircraft Fire and Rescue Station.

The new facility will include a three-truck apparatus bay, administration space, and living quarters featuring sleeping bunk rooms, a full kitchen with commercial food service equipment, a break room, and fitness module. The structure consists of a standing seam metal roof on structural steel and joists supported by load bearing cmu. Hybrid window systems were designed to mitigate the sound and meet current DOD Anti-Terrorism/Force Protection standards.

Sustainable design was a driving force behind the project. As a result, the facility is seeking LEED Silver certification. Mechanical design included a geothermal heating and cooling system to improve energy efficiency for the facility. Low water-use plumbing fixtures and high efficiency interior lighting with controls and occupancy sensors were also included to further reduce facility water and energy use.

The project has an estimated construction completion date of May 2010.

## University of South Alabama



**USA prepares for a sustainable Dining Facility:** Schmidt Consulting Group, alongside Walcott Adams Verneuille (WAV) Architects, provided Mechanical, Electrical, Plumbing, and Fire Protection design services for a new 24,500 square foot, multi-level Dining Facility located in the heart of the student housing district of the University of South Alabama's Mobile Campus. This project is designed to achieve LEED Silver certification.

The Dining Facility is equipped with a full kitchen and food serving lines for panini sandwiches, pizza, a Mongolian grill, salad bar, and beverage areas. The lower level of the facility includes a JAVA City location and the entire facility will have wireless internet service. Construction for the project is scheduled to begin next month.

Mechanical design included the provision of new chilled water air handling units, including VAV systems, and computer room units - all with hot water heat. Chilled and hot water will be supplied to the building by the campus central utility loop. Both chilled and hot water systems are variable flow controlled by system pressure. All equipment is to be controlled by a central DDC control system located in the campus central utility plant. Eight kitchen hood systems were also designed, as well as after hours cooling equipment for critical areas. Plumbing design included the provision of new fixtures in group and individual restrooms, including low flow water closets and urinals. Custodial room installations were also provided, as well as kitchen plumbing services and storm water drainage designs. Hot water was provided by a heat exchanger supported by the campus hot water utility loop. Fire Protection included design specification and floor plan guidelines.

Electrical design included the provision of automatic lighting controls for individual spaces and a central automatic control of all lighting for unoccupied hours as prescribed by the 2006 International Energy Conservation Code. The lighting controls also integrate a daylight sensor to reduce lighting as ambient lighting conditions allow. Site design included connection to the University medium voltage distribution system by providing manhole, medium voltage duct bank, medium voltage switching, and a pad mounted transformer to serve the facility. Power distribution was typical for the Dining Facility and included state-of-the-art cooking and serving lines. An emergency generator was provided to provide power for the entire facility in an emergency situation. The building is also designed to accommodate a campus communications hub for telecommunications distribution to the west side of the campus.

## New Additions in Pinellas

Schmidt Consulting Group, alongside Harvard Jolly (Architect), provided Mechanical, Electrical, Plumbing, and Communications design services for classroom additions at three middle schools in Pinellas County, Florida: Seminole, Palm Harbor, and John Hopkins. Construction is underway at all three schools with an estimated completion date of August 2009.

Mechanical design services included the installation of new chilled water air handling units, VAV systems with electric heat, and controls that tie into the existing campus DDC system. The various schools required different chilled water sources. Seminole Middle required a standalone chiller with primary only operation, while the other two schools required the expansion of the existing campus chilled water system with the addition of an air cooled chiller and renovation of the existing primary-secondary pumping system. Plumbing design services included the installation of new fixtures in group and individual restrooms, including dual action water closets and sensor operated faucets.

Electrical design services included complete lighting, power distribution, lightning protection, and fire alarm systems. Lighting was designed using energy efficient T8 fluorescent lamps with occupancy sensor lighting controls. Power connections were also provided for the new HVAC equipment.



### Seminole Middle School

Size: 8 classroom addition / 4 portables  
Construction Cost: \$3.7 million

### Palm Harbor Middle School

Size: 8 classroom addition  
Construction Cost: \$4.2 million

### John Hopkins Middle School

Size: 12 classroom addition / 2 portables  
Construction Cost: \$4.2 million

## Photo of the Month



**SCG visits Allstate Steel:** Gene Schmidt and Stuart Smith of SCG, accompanied by David Alsop, President of Sam Marshall Architects (SMA), visited Allstate Steel Company's headquarters in Jacksonville, Florida last month. Founded in 1963, Allstate serves as a privately-owned detailing and full service fabrication and erection company. Their 170,000 square foot headquarters facility produces in excess of 15,000 tons of structured steel annually.

Their visit was in reference to the \$30 million, 120,000 square foot Community Services Complex project located at Northwest Florida State College's Niceville Campus - a joint design effort of SCG, SMA, and Orcutt Consulting. The project, currently in construction, combines an arena, an emergency operations/public safety facility, and an interdepartmental classrooms building.

Allstate is in the process of fabricating three main trusses (featured left) and two end trusses for the Complex. Once complete, the trusses will be disassembled, shipped to the construction site, and re-fabricated. Each main truss will span 136 linear feet.

**About Us:** Schmidt Consulting Group, Inc. (SCG) was established in 1987 to provide Mechanical, Plumbing, Electrical, Communications, and Structural design services to a very diverse client base. We currently employ offices in Pensacola and St. Petersburg, Florida and Daphne, Alabama to serve our clients more effectively and efficiently. Our range of services includes planning, design, construction documents, supervision of public bidding, contract administration and supervision, commissioning, and inspection during construction.

Our team has provided design services for a variety of facility types and has operated in many construction arrangements. From Fast Track to Design/Bid to Design/Build to Design with Construction Management, our reputation for quality, responsiveness, and timeliness has been demonstrated through successful projects for many private, federal, state, and local entities.

Schmidt Consulting Group, Inc. has provided specialized design solutions for a variety of facility types including: Airports, Auditoriums, Broadcast Studios, Churches, Colleges and Universities, Correctional Facilities, Data Centers, Emergency Operations Centers, K-12 Schools, Hospitals and Healthcare Facilities, Industrial Complexes, Laboratories, Libraries, Military Facilities, Multi-Family Residential Units, Municipal Facilities, Museums and Performing Art Centers, Office Buildings, Recreational Facilities, Sport Complexes, and Wastewater Treatment Plants.



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