Notable Concrete in Tampa Bay and Vicinity

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Music Teaching & Performance Building, University of South Florida, USF Holly Drive, Tampa, FL

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Submitted by: H. Del Hight, Vice President Business Development, STABIL Concrete Products, St. Petersburg, FL, 727-321-6000, dhight@stabilconcrete.com

Originally built as the Visual & Performing Arts Teaching Facility, this classroom building houses 400 music majors, a 500-seat concert hall, and a 100-seat recital hall. The precast concrete exterior walls used an orange granite aggregate with horizontal ribs to complement the adjacent brick buildings on campus. Architect: Hanbury, Evans, Wright, Vlattas + Company. Contractor: Skanska USA.

M2Gen, Moffitt Cancer Center, North Malcom McKinley Drive and East Bougainvillea Avenue, Tampa, FL

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Submitted by: H. Del Hight, Vice President Business Development, STABIL Concrete Products, St. Petersburg, FL, 727-321-6000, dhight@stabilconcrete.com

A state-of-the-art treatment and research facility, M2Gen is the result of a partnership between Moffitt and drug maker Merck & Co. The exterior features three-colored architectural precast concrete in 247 panels covering 36,600 ft². The chemically retarded exposed aggregate finish was expressed with a medium abrasive blast. Architect: Reynolds, Smith & Hills, Inc. Contractor: Skanska USA.

Salvador Dali Museum, 1000 Third Street South, St. Petersburg, FL

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Submitted by: Scott D. Martin, PE, LEED AP BD+C, Senior Associate, Structural Project Engineer, Walter P. Moore and Associates, Inc., Tampa, FL, 813-221-2424, smartin@walterpmoore.com

The stunning museum on the campus of the University of South Florida houses the largest collection of Dali works outside Europe in a 74,000 ft², four-story cast-in-place concrete structure. Reinforced one-way slabs and beams bear on architecturally exposed exterior and interior load-bearing concrete walls, and a 70 ft tall spiral concrete grand stair. Self-consolidating concrete with a crystalline waterproofing admixture was used in the 18 in. thick exterior walls, which were poured in 14 ft lifts to limit lift lines and leave a smooth, blemish-free finish while also preventing moisture from passing through the walls. Architect: HOK, Tampa, FL. Contractor: The Beck Group, Tampa, FL.

Central Energy Plant, Sarasota Memorial Hospital, 1700 South Tamiami Trail, Sarasota, FL

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Submitted by: Robert S. Mohrland, PE, Senior Associate, Walter P. Moore and Associates, Inc., Tampa, FL, 813-221-2424, rmohrland@walterpmoore.com

The central energy plant for the region's only public hospital is an 80 ft tall concrete structure that accommodates the oversized and plentiful plant equipment. The lower level contains chillers, boilers, and medical gas equipment. Level 2 contains electrical switchgear. Level 3 houses the generators. On top of the plant are eight custom concrete cooling towers built integrally with the main frame. The structural system features cast-in-place pan-form slabs with concrete beams and columns. The lateral system is a concrete moment frame. The foundation is concrete pile caps on 14 in. diameter auger cast piles. Architect: Gresham Smith and Partners. Contractor: Skanska USA.

Juniper-Poplar Hall, University of South Florida, 4202 E. Fowler Avenue, Tampa, FL

Submitted by: Scott D. Martin, PE, LEED AP BD+C, Senior Associate, Structural Project Engineer, Walter P. Moore and Associates, Inc., Tampa, FL, 813-221-2424, smartin@walterpmoore.com

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This design-build residence hall is comprised of four 7-story towers and one 6-story tower, all connected by a single-story lobby that includes a 98 ft long clear-span double tee that frames a portal into the residence community. The project has suites for 1050 students, commons lounges, a living/learning center, study areas, laundry facilities, and a 300-seat dining facility. The structural system consists of precast hollow core plank and double tees on precast walls and columns. The design includes long clear spans that reduce the number of columns, creating more open areas and reduced foundation costs. Insulated load-bearing wall panels increase energy efficiency. The foundation bears on grout-filled ductile iron pipe piles. Architect: Gould Evans. Contractor: Peter R. Brown Construction.






Sergeant Paul R. Smith Middle School, 14303 Citrus Pointe Drive, Tampa, FL

Submitted by: Eric Rice, AIA, LEED AP, Principal, WILDERARCHITECTURE, Inc., Tampa, FL, 813-242-6677, er@wilderarchitecture.com

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This 1550-student, 130,000 ft² school, built on an infill site, was designed to achieve an exceptionally compact footprint by using tilt-up concrete construction, maximizing shared public spaces and utilizing renewable and recyclable building materials. The design team also incorporated significant but inexpensive teaching tools into the design of the tilt-up panels. A 30 ft tall, fully functional sundial is inscribed on a south-facing panel that serves as the focal point for the main courtyard. Campus site plans are embedded on panels for each building at major entries. The school was recognized with a Hillsborough Planning Commission Award of Excellence and an AIA Tampa Bay Design Award. Architect: WILDERARCHITECTURE. Contractor: Allstate Construction, Inc.

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