

Construction is ongoing at Orlando International Airport South Terminal C.

PHOTO: COURTESY OF TURNER-KIEWIT JOINT VENTURE

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Central Florida Report

Heating Up

Population growth and tourism alike fuel a plethora of projects

By Eda Galeno

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Meeting Demand in an Active Market

The Central Florida construction market continues to grow at a steady rate, as airports, rails, roads, schools, health-care facilities and big businesses fuel the region. “Central Florida is still a very active market,” confirms Mark Wylie, president and CEO of the Central Florida chapter of Associated Builders and Contractors (ABC). “Employment numbers continue to rise, and about 5–7,000 new jobs are created every month compared to the previous year. Meeting the demand that comes with that influx is the challenge.”

Orlando

In Orlando, several years of increased tourism is contributing to a healthy workload. “In 2017, there were 110 million people who came to the state, and over 60 million came to Orlando,” Wylie adds. “So we need entertainment, hotels and meeting spaces.”

Orlando International Airport has several big projects underway driven by passenger count and travelers visiting the state. The Turner-Kiewit Joint Venture is currently working on the South Terminal C – Phase 1 Landside project for the Greater Orlando Aviation Authority, which includes construction of the Landside Terminal Complex, Ground Transportation Facility and Parking Garage Phase 2. Also aiding the influx of visitors to Orlando is Brightline. This high-speed rail system between South Florida and Orlando International Airport is already having an impact on tourism and business travel in the area.

Education projects are experiencing a boost in the Orlando area, as Orange County public schools continue to spend about \$200–\$300 million a year building schools to keep up with population growth. “Florida has about 1,000 people a day moving to the state so in addition to housing and roads, we

need schools to educate children,” Wylie says. “There is a lot of enthusiasm in the education sector.”

Health-care construction remains strong in the greater Orlando market, as Brasfield & Gorrie recently joined Florida Hospital to celebrate the topping out of Winter Park Memorial Hospital’s Nicholson Pavilion. The \$73-million, five-story, Mediterranean-inspired patient care pavilion will allow the hospital to convert the majority of its existing rooms into private patient rooms—today’s gold standard in care. The expansion will also include private beds for orthopedic care, surgical and other services.

In reverse, Crescent Lucerne is being born from the redevelopment of Orlando Health’s former Lucerne Pavilion Hospital. When completed, Crescent Lucerne will be a mixed-use complex including residential and retail components with parking, a grocery store, restaurant, clubhouse and pool.

On the sports side, the University Athletic Association at the University of Florida (UF) appointed Brasfield & Gorrie as the construction manager for its new baseball park, which is scheduled to begin construction this fall. Brasfield & Gorrie’s portfolio features several projects on or near the UF campus, and the firm has extensive experience with baseball facilities.

IMAGE: TAN/ISTOCK



At full build out, Lake Nona Town Center will feature more than 4 million sq ft of dining, shopping and entertainment



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KPMG's \$400-million Learning, Development and Innovation Facility in Lake Nona will bring 800 employees a week to Central Florida for training.

Lake Nona

Construction is also still progressing in and around Lake Nona, located adjacent to Orlando International Airport. In spring 2018, Lake Nona Town Center welcomed the 60,000-sq-ft flagship location of Drive Shack, a golf entertainment destination. Pixon Apartments, Park Pizza & Brewing Co. restaurant, an outdoor container park and the new BBA Aviation/Signature Flight Support headquarters are also slated to open by the end of 2018.

With an established foundation of residents and professionals, the next phase of Lake Nona Town Center will focus on providing exclusive entertainment options within more than 4 million sq ft of commercial space, including a movie theatre, brewery, comedy club and live performance venue, bowling concept, 215-room Town

Center luxury hotel, and more than 80 additional specialty retailers, big box users and restaurants.

The Johnson & Johnson Human Performance Institute is also expanding its footprint in the Lake Nona community with the construction of its new global headquarters. According to a press release, the \$18-million state-of-the-art campus, located in Lake Nona Medical City, will house the Human Performance Institute's multidisciplinary training center and serve as the global hub for continuing research and development into science-based approaches to improve human energy capacity for performance, resilience and leadership. Construction of the 35,100-sq-ft research and training facility will be completed by the end of the year.

Construction is nearing completion on the exterior of the \$450-million

KPMG building at Lake Nona. The facility will house the company's future learning and development and innovation center, which is scheduled to open in early 2020.

With new projects running the gamut, it's clear that the sun won't be setting on the Central Florida construction market any time soon. ♦



Johnson & Johnson's \$18-million Human Performance institute in Lake Nona will serve as a multidisciplinary training center.

IMAGES: TAVISTOCK



Jobsite Accidents and OSHA Violations On the Rise

By Neal Sklar, Partner, Peckar & Abramson

So far, 2018 has seen an unprecedented rise in jobsite calamities. As a result, the Dept. of Labor's Occupational Safety and Health Administration (OSHA) has been active in efforts to enforce long-standing jobsite safety rules and regulations. State and federal agencies have been assessing criminal penalties and fines when warranted. Contractors are alarmed about potential liabilities.

For construction projects in progress, contracts, insurance policies, safety requirements and legal considerations must be studied and employed to minimize exposure and manage

liability. For future work, contracts and insurance policies should be scrutinized for relevance of work being performed and include language that will properly manage risk. Written safety programs/protocols should be updated/improved and training sessions implemented.

Board-certified construction attorneys can help analyze, modify and update contracts, insurance policies and safety programs to suitably assess and mitigate risk. They should be consulted to provide guidance when disaster strikes.

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Sprinklermatic University features a state-of-the-art onsite wet lab.

Leading and Learning Through Education

Having celebrated its 30-year anniversary in 2017, the Sprinklermatic team knows that change is the key to success. Born from the field, George “Gene” Collier left behind the message that the future leaders of Sprinklermatic were to lead, inspire and educate if they were to not only survive but thrive in this ever-changing industry. That was made clear by how often he had his nose in any one of the code books. Robin Collier and Timothy O’Brien took that message very seriously as they developed the concept and now reality

of Sprinklermatic University, a training and education facility that is open to anyone who is spreading the word about fire protection, life safety or leadership in construction.

Sprinklermatic University

Having grown up around tradesmen, estimators and fire-protection leaders, one might assume that Collier would have had a great advantage in his training and education in the business. However, this was not the case, as many can likely relate to the feeling that no one really wanted to ‘teach’ the younger generation. Sprinklermatic University was specifically created to break that mold. The facility, although built under the Sprinklermatic brand, is simply a place where men and women can learn, ask questions and be taught. It is a place where the curious can thrive. The facility is designed for tradesmen, vendors, property managers, engineers and first responders to come together in a safe environment and call on each other, challenge each other and lean on

one other to teach, learn and collaborate.

Sprinklermatic University is a private learning facility located in Davie, Fla. It is used for hands-on orientation, training and education for the fire-sprinkler industry and firefighters with the purpose of giving a general overview and introduction to fire sprinklers and fire-protection systems. The university is unique in that it is the only facility that affords students the ability to operate real equipment and actually flow water in a learning environment to practice their craft. It is an approved training provider with the Florida State Fire College and the Florida Dept. of Business and Professional Regulation (DBPR). The facility provides continuing education to firefighters, property managers, NICET and other professional licenses and certifications. Sprinklermatic University is an established fire-protection systems laboratory specifically designed for training purposes, uniting the fire-sprinkler industry and fire service personnel in the community.



Attendees learn in a classroom setting.

PHOTOS: SPRINKLERMATIC MEDIA

Curriculum Overview

Sprinklermatic University's Fire Protection Systems Program curriculum is designed to give students a general overview of fire sprinklers and fire-protection systems. It provides a breakdown of the NFPA standards and other legislature that govern fire-protection systems. Educational objectives are listed and will be met by students at the completion of the program. There are currently five courses that have been approved by the Florida State Fire College & the Dept. of Business Professional Regulation. Each course provides three CEUs to firefighters, fire inspectors, fire instructors and community association managers.

The facility contains a 500 gpm diesel fire pump fed by two 1,000-gallon holding tanks. The test header is piped back to the holding tank, and the water is recirculated. The test header has pitotless nozzles and a nozzle to take a pitot reading. The fire pump RPMs (speed) can be adjusted to illustrate several pump curves for training. The pump is complete with a controller, including a jockey pump and jockey pump controller. Utilizing the jockey pump and air compressor allows full trip tests of the valves and the ability to reset the valves in order to place the system back in service. The valves have detection that is able to be tripped with a switch, announce the panel, and send into alarm and release.

This facility is the backdrop for the 10 incredible superintendents who provide service-based leadership to the team of foremen, fitters and apprentices that make up Sprinklermatic's family-first team. These leaders can be found having an impromptu course on fire pumps, PRVS or any other topic on any given Saturday when the request comes to train internally. These men meet the challenge to inspire and educate daily in fire protection, all while leading by example at work and at home.

Sprinklermatic University hosted the Associated Builders and Contractors (ABC) Young Professionals' Leadership Group event on Workplace Culture, where next-generation industry leaders



Miami-Dade Fire Rescue Captain Bill Gustin walks firefighters through a variety of risers at the onsite wet lab.

discussed technology, diversity and the future of construction. The feedback was incredible and created multiple requests to use the facility for events to learn more about life safety and future building integration.

Miami-Dade Fire Rescue has hosted multiple courses at Sprinklermatic University for recruits as well as officer development training in lieu of building its own facility. Captain Bill Gustin, recognized internationally for his efforts to train and educate firefighters, refers to the facility as "state of the art." He was ecstatic when Sprinklermatic offered a course in Spanish, and Miami-Dade Fire Rescue partnered with Fort Lauderdale Fire Rescue to host several officers from South America at its annual conference. In association with the International Association of Fire Chiefs and Saudi Aramco Oil Co., Miami-Dade Fire Rescue conducts

resident fellowship training programs for Saudi Arabian firefighters. A highlight of its training was a visit to Sprinklermatic University in June to receive training on the components and function of fire-suppression systems and fire department operations with fire pumps, sprinkler and standpipe systems. The training was well received by the Saudi firefighters and will be in the curriculum for future classes.

Sprinklermatic University is accredited through both the Florida State Fire College and DBPR to provide continuing education credits. The company is excited to offer Sprinklermatic University to its clients, vendors, fire departments, associations and even the competition for their use. Sprinklermatic's mission is to educate the community on life safety, provide a platform for service-based leadership and inspire others to do the same. ♦



A dedicated team of talented superintendents provides service-based leadership.

Safety Without Compromise

Over the past few years, CEI's commitment to safety has taken on new enthusiasm. Safety is the most important parameter on any jobsite, with no aspect of operations being weightier than the prevention of injury and illness. Because it has always been a top priority, the company has ramped up its efforts by implementing the following:

- All company meetings begin with a Safety Minute, a short informational presentation on current and relevant safety topics. Each Safety Minute is presented by a different project manager. Topics vary from heavy-equipment to wildlife safety.
- CEI has proudly welcomed a dedicated health and safety specialist who conducts weekly site visits promoting safety awareness to its workforce.
- Recently, CEI provided superintendents daily safety topics to initiate a daily Safety Stand Down during the 2018 Construction Safety Week. Different topics were addressed daily, and lunch was provided on Friday, during which formal incident/accident reporting procedures were initiated.
- CEI was engaged companywide in a Safety Slogan contest and in voting for its new safety logo—another way that safety is woven into the company's everyday culture.

CEI has had no recordable incidents this year, and team members strive to maintain this standard by continuing to adhere to safety procedures. All accidents and injuries are preventable when safety is enforced without compromise. ♦



Carlos Bonet, CEI's environmental, health and safety specialist, pays a visit to the company's Miami Dade College site.

PHOTO: COURTESY OF ROSY PADRON, CHEROKEE ENTERPRISES

Equipment Approval Policies Set Standards in Miami-Dade County

Buildings and physical infrastructure typically receive the greatest focus

after a hurricane event. However, products are also an important consideration. In an effort to place more emphasis on products, Florida's Miami-Dade County enacted stringent equipment-approval standards. Many consider Miami-Dade County's product-approval system to be



All products approved for use by Miami-Dade County must be designed to withstand 140-mph winds, such as this Polar King walk-in cooler.

the benchmark for code-related building product approvals.

Polar King, a manufacturer of walk-in freezers and coolers, is one firm that has engineered its products to meet the Miami-Dade standards and to withstand multiple impacts from hurricane events. Its products all received product-control approval from the county and are in use in many hurricane prone areas.

Patrick King is a franchisee of Flanigan's Seafood Bar and Grill restaurant in Deerfield Beach, Fla., an area often hit by tropical storms. "Last year's Hurricane Irma was a very nasty storm and had a negative impact from a power outage standpoint," King says. "Damages weren't that significant, but the power outages created quite a problem for all our locations because we were without power for various amounts of time." In some locations, King says,

three days' worth of business was lost. By moving food from the restaurants in the storm's path to other locations that still had power, King managed to save much of his food stock.

King says an important reason the restaurants were able to withstand the storm were the stringent codes. "Obviously, once we get a category 5, all bets are off," he adds. "But being able to withstand a category 3 hurricane is very significant, whether you're in Miami or Melbourne." King explains that he chose the Polar King coolers because they are made from fiberglass. "We have several other walk-ins, and they're not fiberglass," he says. "They require all kinds of maintenance, and they don't hold up to the elements. Anything you put near the beach, if it's not fiberglass, it's going to rust, corrode and deteriorate." ♦

PHOTO: COURTESY OF POLAR KING

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Securing the Future

Interview with **Scott Feuerborn**, Regional Business & Technology Solutions Group Manager, Burns & McDonnell

How is the internet of things impacting power networks and infrastructure?

The internet of things (IoT) comprises countless devices that use Wi-Fi to connect to the internet and each other. Utilities are using smart devices like meters, sensors and controllers to help improve efficiency and operational excellence for the electric grid. These advancements don't come without risk—the simplicity and ease have the potential to compromise security. Many times, smart devices and the network infrastructure used are not securely configured and have pieces of software embedded inside that could be damaging if accessed.

Another major point of weakness and security concern with the IoT is a lack of updated software, providing a window of opportunity for hacking and data breaches.

How can we protect the electric grid? What are some of the key elements of a strong cybersecurity program?

Each utility is unique and typically requires a custom security plan to manage risk cost-effectively. However, developing a plan and best practices to secure the power grid and mitigate vulnerability is a universal necessity. The planning framework starts with

hardening the network infrastructure and ends with securing applications and services. It's important to first identify the devices that are most critical, then secure and isolate those that are most vulnerable and develop a strategy to mitigate the risk. ♦

Developing a plan and best practices to secure the power grid and mitigate vulnerability is a universal necessity.

Enhancing Communities for Nearly 40 Years

Headquartered in Orlando since 1977, DRMP is a privately held, employee-owned, multidisciplinary civil engineering and surveying firm that creates innovative design solutions for infrastructure development in the public, private and industrial sectors. With offices throughout the Southeastern United States, the firm specializes in civil engineering, surveying and mapping, ecological services and construction engineering inspection, transportation engineering and water resources/stormwater engineering.

DRMP's philosophy for project success is not solely based on its capabilities to design, survey, inspect or study but also to incorporate sustainability and enhance the quality of life in the communities in which it serves. The results of the firm's project delivery can be seen every

day as commuters travel on the Florida's Turnpike or the U.S. 17-92 at SR 436 Flyover Bridge; as residents are reassured their neighborhoods and local roads can manage heavy rainfalls; by clients expecting to receive accurate surveys for the foundation of every project; and through thorough inspections to achieve quality construction.

It is the blending of all these elements that truly differentiates DRMP from its competitors. Today, the firm remains focused on the same core values it was founded upon: expertise, quality, leadership, trust and respect. ♦

Today, the firm remains focused on the same core values it was founded upon: expertise, quality, leadership, trust and respect.





Cleaning Up The City

Old Smokey and other trash incinerator sites like it left an ashy impression on the soil of nearby parks in the City of Miami, many of which were suspected of being former ash fill operations in the 1940's and 50's. Public concern over the contaminated soil and groundwater prioritized cleanup. CEI worked hard to remediate both Curtis and Douglas Park. Read more about their efforts to keep our communities clean at www.cherokeecorp.com.



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As an FDOT-approved producer, Quantum provides concrete products for road and highway projects. Products include pole bases, lighting and utility poles, k-wall median barriers, noise barriers, MSE retaining wall panels and other incidental precast. As a go-to for electrical grid hardening products to protect against the vulnerability of storms



This Boynton Beach, Fla., parking garage is constructed with a full package of precast and prestressed structural concrete products.

and other utility needs, the company is key in providing the necessary concrete products to keep the power on for everyone—from large electrical utility companies to small development parking lots. Quantum can provide power distribution poles, splice boxes, man holes, substation security walls, and site lighting poles and products.

Jim Park, vice president of business development, sums it up this way: “We pride ourselves on our ability to meet construction schedules with quality workmanship through our Precast Specialties and Seminole Masonry divisions.” ♦

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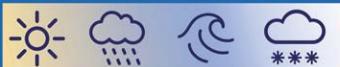
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