

SUBCONTRACTORS/JOINT VENTURES:

GSC Proposed subcontractors that may be used on projects.

Subcontractor	Field	Contact
Highland Engineering	Civil Engineering	Jeff Banker, PE
TLC	Structural Engineering	Gary Krueger
TLC	MEP Fire Protection	Moncef Hadji James Mullen

- See attached resumes and licenses for subcontractor team.



Highland Engineering, Inc.
415 Citrus Tower Boulevard
Clermont, Florida 34711

Jeffery W. Banker, P.E. Principal / Project Manager

Education

B.S., Civil Engineering,
Louisiana State University
1998

Civil Design Certification,
ITI Technical College,
Baton Rouge, LA
1995

Registrations

Registered Professional
Civil Engineer
Florida #64122
Louisiana #30960
Alabama #29873
Georgia #33974

Affiliations

American Society of Civil
Engineers

Florida Engineering
Society

Louisiana Engineering
Society

Employment History

Highland Engineering, Inc.
(06/2007 – present)

Professional Engineering
Consultants, Inc.
(01/2003 – 05/2007)

GSA, Inc.
(05/1993 – 01/2003)

Eatel, Inc.
(01/1987 – 05/1993)

Professional History

Mr. Banker's professional experience includes an extensive background in the area of Civil Site Development and Municipal Engineering with direct involvement in a broad spectrum of project related tasks such as: due diligence investigations, planning and design, comprehensive land use plan and zoning, project management, project scheduling, cost estimating, construction documents, site grading, utility improvements, hydraulic modeling, stormwater management analysis, regulatory agency coordination and construction administration. Mr. Banker has extensive hands on skills and expertise with today's advanced design software, enabling him to be a highly effective project manager.

Project Experience

Governmental / Institutional / Educational Facilities:

- **Municipal**
 - City of Mascotte – Public Safety Facility
 - City of Groveland – Public Safety Facility
 - City of Tavares – Entrance Triangle

- **Valencia College**
 - West Campus – Master Stormwater Management System Study
 - West Campus – Master Stormwater Management System Improvements
 - West Campus – Building 10 Sidewalk Improvement Project
 - West Campus – Building Nos. 9 and 14 Sewer System Evaluation/Remediation Improvements
 - West Campus - Building 10
 - West Campus – Loop Watermain
 - Osceola Campus – Building D Complex Flooding Evaluation/Remediation
 - Osceola Campus – Building 4
 - Osceola Campus – Central Energy Plant
 - Osceola Campus – Parking Lot E and Parking Lot H Expansion
 - Osceola Campus – Central Energy Plan Expansion
 - Osceola Campus – Maintenance Building Addition
 - East Campus – Parking Lot Rehabilitation/Expansion for Valencia Community College
 - East Campus – Water Distribution System Evaluation/Remediation
 - McCoy Center – Due Diligence / Preliminary Engineering Investigation
 - Southeast Campus – Existing Drainage Conditions / Master Stormwater Mgmt System Studies
 - Lake Nona – Master Planning
 - Lake Nona – Building 1 and Central Energy Plant

- **University of Central Florida**
 - Howard Phillips Hall - Drainage and Lift Station Improvements



Computer Software Experience

- Sketchup Pro
- AutoCAD (all releases) and Autolisp
- AutoDesk Civil3D
- AutoDesk Land Development Desktop, Civil Design, Survey and Raster Design
- AutoDesk Architectural Desktop
- ESRI Arcview GIS (GIS & Mapping)
 - ICRP
 - Hydroflow
 - HEC-RAS
 - HEC-HMS
 - WSPRO
 - ICRP
 - PONDS
 - WaterCAD
- AutoDesk 3D Studio Viz (3D Rendering and Visualization)
- Microsoft Office (Word, Excel, Access, PowerPoint, Outlook)

Continuing Education

- NPDES Storm Water Permit Compliance Seminar
- Water System Distribution and Modeling
- Pitfalls of stormwater design
- Green Development

Jeffery W. Banker, P.E.

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- **The Villages Charter School**
 - Villages High School - South Campus
 - Villages K-8 – South Campus

Roadways:

- **Ocoee Apopka Road Improvements, Orange County Florida**
- **Sandlake Road Intersection Improvements, Orange County, Florida**
- **Heritage Pass Road Improvements, Polk County, Florida**
- **Reams Road Intersection Improvements, Orange County, Florida**
- **Road Improvements, Ascension Parish, Louisiana**

Commercial/Retail:

- **The Rialto – Orange County, Florida – 7.5 acres**
- **Multiple Miller's Ale House Restaurants – Florida – 1 to 3 acres**
- **Central Church of the Nazarene PD – Orange County, Florida – 65 acres**
- **The Shops at Redbug – Seminole County, Florida – 1.5 acres**
- **Sonny's Bar-B-Que – Seminole County, Florida – 1.5 acres**
- **Multiple Noah's Ark Self Storage Site – Central Florida – 3 to 6 acres**
- **David Maus Toyota – Sanford, Florida – 15 acres**
- **Eustis Village Shopping Center – Outparcel D, Eustis, Florida – 1 acres**
- **Multiple ALDI Foods Stores – Florida – 2 to 5 acres**
- **Hurricane Grill – Clermont, Florida – 1.4 acres**

Medical Facility:

- **Health Central Parking Lot Expansion – Ocoee, Florida – 20 acres**
- **South Lake Hospital Parking Lot Expansion – Clermont, Florida – 2 acres**
- **Physician Associates Medical Plaza – Seminole County, Florida – 3 acres**
- **Maitland Vet Clinic – Seminole County, Florida – 5 acres**

Industrial:

- **Mid-Florida Logistics Park – Apopka, Florida – 185 acres**
- **Northwest Distribution Center – Apopka, Florida – 45 acres**
- **Beachline Corporate Center – Orlando, Florida – 57 acres**
- **Aldi Distribution Center – Haines City, Florida – 74 acres**
- **Whirlpool Distribution Center – Orlando, Florida – 28 acres**

Mixed Use:

- **The Rialto – Orange County, Florida – 13.7 acres**
- **Serenoa Village – Universal Boulevard -Mixed Use Development (524 acres)**
- **Lake Buena Vista Village – Twin Peaks Restaurant and Candlewood Suites Hotel 10.42 acres**



Jeffery W. Banker, P.E.

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Residential:

- **Alta Rialto – Orange County, Florida** – 5.5 acre, 200 units
- **Trickle South Subdivision – Orange County, Florida** – 38 acres, 105 units
- **Worthington – Polk County, Florida** – 80 acre, 254 units
- **Clermont Ridge Senior Villas – Clermont, Florida** – 6.5 Acres, 70 Units
- **Gentry Park ALF/ILF – Orlando, Florida** – 30 acres
- **Plateau Avenue Apartments – Lakeland, Florida** – 5 acres, 79 Units
- **Ruby Red Apartments – Clermont, Florida** – 5 acres
- **Sumter Villas – Bushnell, Florida** – 35.5 acres (181 units/5 acres commercial)

Theme Park:

- **Universal Studios Florida** – Harry Potter Ride Queue
- **Universal Studios Florida** – Bus Loop
- **Universal Studios Florida** – Toon Drop Off
- **Universal Studios Florida** – BLDG 246 Ride Queue
- **Universal Studios Florida** – Project 722 – Diagon Alley
- **Universal Studios Florida** – Project 7448
- **Universal Studios Florida** – Project 7302
- **Wet N Wild** – Parking Lot Improvements
- **Wet N Wild** – Demolition of all Rides and Attractions

Airports:

- **Louisiana Airport Authority Intermodal Airport Facility, Ascension Parish, Louisiana**
– 25,000+/- acres

Recreation/Parks:

- **Jambalaya Park, City of Gonzales, Louisiana**, – 5 acres, 2005 Louisiana Municipal Association Project of the Year
- **Veterans Memorial Park, City of Gonzales, Louisiana** – 3 acres
- **Tee Joe Gonzales Park, City of Gonzales, Louisiana** – 10 acre

Eminent Domain:

- **FDOT** - Eminent Domain support for parcels on SR No. 500 and 514
- **FDOT/Seminole County** - Eminent Domain support for C.R. 46A Safety Improvements



Ron DeSantis, Governor



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PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

BANKER, JEFFERY W

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MINNEOLA FL 34715

LICENSE NUMBER: PE64122

EXPIRATION DATE: FEBRUARY 28, 2023

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Highland Engineering, Inc.
415 Citrus Tower Boulevard
Clermont, Florida 34711
(407) 275-7877

FIRM PROFILE

Highland Engineering, Inc. is a Central Florida based consulting civil engineering firm founded in June 2007 by Rick Merkel, P.E., and Jeff Banker, P.E. Highland Engineering specializes in civil engineering, planning, land use / zoning process, due diligence studies, eminent domain services, stormwater management / drainage studies, water distribution and wastewater collection/transmission systems, roadways, site development, site permitting, bidding, and construction administration services. Highland Engineering staff has over 90 collective years of diverse experience in these areas of expertise serving both public and private clients. This qualified team combines solid engineering practices with extensive local knowledge and relationships with regulatory/permitting agencies to deliver technically sound and cost-effective solutions to every engineering project.

Highland Engineering, Inc. principals take an active role in both the daily project management responsibilities and the completion of technical work on each of the firm's assignments. Our thorough and knowledgeable perspective regarding project details, schedules and applicable development codes/regulations enables us to effectively guide clients through the intricacies of regulatory agency permitting and consequently to the success of the project.

We at Highland Engineering, Inc. know our individual and firm reputation is based on providing high quality and timely professional civil engineering consulting services and work products that meet and/or exceed our clients' expectations and are committed to providing such services. We also recognize the importance of computer technology to the engineering profession and are equipped with the latest technological equipment and software to provide the best possible service to our clients.

GARY C. KRUEGER, PE, LEED AP BD+C, CM

Senior Structural Engineer

BACKGROUND

Gary Krueger serves as a Principal / Division Director of TLC Engineering Solutions, as well as Project Manager, Senior Structural Engineer, and Vice President. He joined TLC in 1988 with six years of prior experience and has risen through the firm to sit on the Board of Directors and become a Senior Principal Equity Partner.

Gary is among TLC's most senior and experienced structural engineers with expertise in structural analysis and design, 3-D computer modeling, structural system evaluation, and building and threshold inspections. Gary focuses on providing up-to-date, code compliant and sustainable design solutions for new and renovation projects specifically for local, state, and Federal governments. Having completed numerous Florida projects, Gary is knowledgeable in addressing salt corrosion, excessive humidity conditions, and hurricane force winds. Gary holds a Florida Special Inspectors license and is a certified manager as recognized by the Institute of Certified Professional Managers.

EXPERIENCE

Toho Water Authority Administrative Complex, Kissimmee, FL

Four-story administrative complex includes an integrated hardened emergency operations center to oversee District Water resources during emergency events. Certified LEED NC 2.2 Gold. \$11.7 million / 55,000 sf

City of Coconut Creek Public Works Building, Coconut Creek, FL

New two-story administration building includes EOC, Dispatch, 911 Call Center and emergency response administrative spaces. Certified LEED NC 2009 Silver. \$7 million / 22,000 sf

W.H. Stephenson Utilities / Warehouse, City of Cocoa, FL

New Transmission and Distribution facility combines the City of Cocoa Water and Purchasing Department functions as well as vehicle maintenance and shop repair facilities. Facility contains 14,500 sf of office space, including multi-media training spaces and back-up city IT services; 15,700 sf of repair shops, vehicle maintenance area, and general shop equipment; and 23,500 sf of warehouse storage. A 2-story addition provides 8,000-sf Water Quality lab for potable water testing. \$5 million

Hernando County Health Department, Spring Hill, FL

New 2-story facility serves the County with health and behavior related clinical services and programs. User interviews and programming were performed to enable proper integration among many departments and clinics. \$11.5 million / 48,310 sf

Gainesville Police Department Headquarters, Gainesville, FL

New 2-story building designed for 135 mph ultimate wind speed. Structural design consists of exterior load bearing masonry shear walls with brick veneer supporting steel framed floor and roof system. Steel tube columns throughout the interior provide support for floor and roof framing, while maintaining an open floor plan. Certified LEED NC 2009 Silver. \$11.6 million / 67,800 sf



EDUCATION

Michigan State University
M.S., Structural Engineering
1983
Michigan State University
B.S., Civil Engineering
1982

YEARS OF EXPERIENCE

TLC: 31 years
Prior: 6 years

REGISTRATIONS

PE FL 40788

CERTIFICATIONS

LEED AP BD+C, GBCI
Certified Manager, ICPM

PROFESSIONAL AFFILIATIONS

ACI, Member
AISC, Member
SAME, Member

Licensee Details

Licensee Information

Name: **KRUEGER, GARY CARL (Primary Name)**
 Main Address: **5715 JOSEPH CT
 MERRITT ISLAND Florida 329537419**
 County: **BREVARD**

License Mailing: **874 DIXON BOULEVARD
 COCOA FL 32922**
 County: **BREVARD**

LicenseLocation:

License Information

License Type: **Professional Engineer**
 Rank: **Prof Engineer**
 License Number: **40788**
 Status: **Current,Active**
 Licensure Date: **01/26/1989**
 Expires: **02/28/2021**

Special Qualifications	Qualification Effective
Special Inspector	02/21/1995
Advanced Building Code Course Credit	12/31/2018

Alternate Names

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MONCEF HADIJI, PE, RCDD, LEED AP BD+C, GGP

Senior Electrical Engineer

BACKGROUND

Moncef serves as a Principal at TLC and Senior Electrical Engineer responsible for coordinating and implementing electrical and telecommunication system design in concert with other design disciplines, supervising the electrical design team, as well as Quality Control and Quality Assurance. Moncef has over 30 years of experience in designing specialty lighting, power distribution systems, emergency generators, uninterrupted power supplies, automatic transfer switches, lightning suppression, surge arresters, and communications-technology systems for fire alarm, nurse call, paging and public address, voice-data, audio-visual, and security/access control. As a LEED Accredited Professional, Moncef is familiar with sustainable design and its high impact on energy efficiency. Moncef is an experienced project manager skilled in overseeing the budget and scheduling aspects of any size project.

EXPERIENCE

Lake County Administration Building, Tavares, Florida

Electrical design for lighting retrofit under EECBG included upgrading interior electrical circuits, lighting and lighting controls, and automated building systems. Project included demolition of existing associated light fixtures and energy conservation. \$190,000 / 30,000 sf

Lake County CCTV Multiple Facilities, Lake County, Florida

Closed Circuit TV (CCTV) review of various county buildings identifying options and features and providing recommendations.

Lake County Horticulture Learning Center PV, Leesburg, Florida

New 8.4 kW grid-tie-amorphous silicon PV array, including smart meter, inverter, wiring and aggregation system, and kiosk with power monitoring website. \$75,000 / 2,500 sf

Lake County Submeters for Three Buildings, Leesburg, Florida

Locate and design electrical submeters for bidding the installation in compliance with ARRA funded projects. \$75,000 / 12,000 sf

Lake County Jail CEP Domestic Water Heater, Tavares, Florida

Design of new domestic hot water back-up system for the jail consists of implementing the assessment report recommendations including relocating the existing hot water heater from the Courts central plant and designing a new heat exchanger and piping arrangement that allows for a supplemental domestic hot water back-up system. \$50,000

Lake County Judicial Center 3rd Floor Renovation, Tavares, Florida

Field investigation and preparation of construction documents for the 3rd floor renovation of the Lake County Judicial Center. \$2 million

Lake County Scott Park Lighting, Mt. Plymouth, Florida

New security lighting included electrical primary service and coordination with utility provider, and power distribution and controls for lighting.



EDUCATION

Wichita State University
M.S., Electrical Engineering
1988

Wichita State University
B.S., Electrical Engineering
1986

YEARS OF EXPERIENCE

TLC: 15 years
Prior: 16 years

REGISTRATIONS

PE FL 48022

(Other states: KS, MO, NM, TX, GA, VA, NJ, NE, LA, AL, MA, NY, OK, CA, NC, DC, IA, MN, MI)

CERTIFICATIONS

GGP, Green Building Initiative

LEED AP BD+C, GBCI

Registered Communications

Distribution Designer (RCDD), BICSI

PROFESSIONAL AFFILIATIONS

BICSI, Member



Ron DeSantis, Governor



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HADIJI, MOHAMMED MONCEF

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JIM C. MULLEN, PE, CxA, LEED AP

Mechanical Engineer

BACKGROUND

Jim is an experienced project manager and mechanical engineer with a strong reputation for focusing on client service and mechanical design proficiency in HVAC, plumbing, and fire protection design. Jim is well versed in design analysis, code study, load calculations, as well as performing energy analysis, identifying energy savings, and presenting design alternatives to the customer. Jim has in-depth knowledge of chilled water systems (air-cooled and water-cooled chillers), ice storage systems, water source heat pumps, variable speed pumping systems, primary and secondary pumping systems, variable air volume systems, and direct digital controls. He is experienced in the evaluation of existing mechanical systems and equipment for upgrade or replacement to achieve a maximum use with a reduction of energy. Jim is committed to providing engineering excellence by accurately determining the needs of each project and identifying innovative, economically feasible, energy efficient, and environmentally responsible project solutions.

EXPERIENCE

Lake County Judicial Center 3rd Floor Renovation, Tavares, Florida

Field investigation and preparation of construction documents for the 3rd floor renovation of the Lake County Judicial Center. \$2 million

Winter Haven Tennis Center, Winter Haven, Florida

Revamped tennis includes new outdoor facility with shaded tables, elevated observation deck, showers, and a pro shop. \$2.5 million / 2,225 sf

Polk County Facilities Tenant Improvements, Bartow, Florida

Facility upgrades for Parks Administration relocation to Natural Resources Building. \$1 million

Toho Administrative Complex Buildout, Kissimmee, Florida

Buildout of fourth floor and renovations to first floor to accommodate IT support services. \$1 million / 16,500 sf

Melbourne City Hall Tenant Improvements, Melbourne, Florida

Building fit-out of the fourth-floor office facilities provide modern facilities with energy efficient building systems and layout. \$500,000

Volusia County Court Central Warehouse, Daytona Beach, Florida

New warehouse facility designed to provide secure, climate-controlled storage for court records and equipment. Design required integrating MEP, fire alarm, communication, and security systems to maintain a 24-hour operation during an emergency event. \$3.4 million / 16,000 sf

Rockledge Fire Station 36, Rockledge, Florida

New two-bay fire station includes day room, full kitchen and dining, gym, four bunk rooms, laundry, and storage rooms. The building can withstand winds up to 160 mph. \$1.6 million / 5,000 sf



EDUCATION

University of Central Florida
B.S., Mechanical Engineering
1991

YEARS OF EXPERIENCE

TLC: 21 years
Prior: 3 years

REGISTRATIONS

PE FL 60195

CERTIFICATIONS

LEED AP, GBCI
Certified Commissioning Authority
(CxA), ACG

PROFESSIONAL AFFILIATIONS

ASHRAE, Member



Ron DeSantis, Governor



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MULLEN, JAMES C.

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COUNTY / MUNICIPAL BUILDINGS | STRUCTURAL DESIGN EXPERIENCE

OUC Administrative Headquarters Building, Orlando, Florida

OUC's new water and energy efficient 10-story headquarters with an under-floor air distribution system. Offices on floors 1 and 7-10 with a 400-space garage on levels 2-6. The building is constructed of cast-in-place post-tensioned beams with one-way slabs supported on concrete columns and shear walls; it is supported on a spread-footing foundation system. TLC designed the MEP and structural systems to meet LEED requirements. Security designed for OnSSI Occularis CCTV. USGBC Central Florida Chapter LEED New Construction Project of the Year 2009. Certified LEED NC 2.2 Gold. Certified LEED NC 2.2 Gold. \$42 million / 127,000 sf / 2008 / MEP / FP / Audio-Visual / Voice-Data / Security / Structural

Cape Coral Police Department Headquarters, Cape Coral, Florida

Voice/Data infrastructure, CCTV and access control systems for the Police and Fire departments communication center and administrative offices

Orange County Sheriff Sector II Office Building, Orlando, Florida

One-story administrative office building whose structural system features steel frame with exterior load-bearing tilt-wall panels. LEED Silver NC 2.2 \$5.5 million / 23,000 sf / 2010 / Structural

Seminole County Public Safety Building, Sanford, Florida

Replacement of the uninterruptable protection system with a new redundant Base UPS distribution system. \$150,000 / 2011 / E / Structural

Seminole Fire Station No. 29, Oviedo, Florida

Fire station with three deep bays for tall vehicles. This project was designed and put on hold. When funding was available the project went forward but needed to be reviewed for the new building code and design updates. \$3.3 million / 11,000 sf / 2017 / Structural

West End Fire Station, Bay County, Florida

New volunteer fire station. Certified LEED NC 2.2. \$3 million / 9,200 sf / 2012 / MEP / FP / Structural / Voice-Data / LEED Documentation and Administration

Cocoa City Hall Renovations, Cocoa, Florida

Renovations and structural evaluation of wood composite beams.

New Smyrna Police Station, New Smyrna, Florida

One-story building features high-tech security and voice-data systems, two backup generators for emergency power and is structurally designed and environmentally hardened to withstand Category 4 hurricane force winds. \$7 million / 40,000 sf / MEP / S

Collier County Fleet Maintenance Facility, Naples, Florida

Two-story Fleet Maintenance building with office and support area, parts storage, tool room and shop areas. Includes 28 service bays capable of handling trucks busses and heavy equipment. \$5.3 Million / 72,655 sf / MEP / FP / Structural

Rockledge City Hall Addition, Rockledge, Florida

20' x 68' addition to the North end of the existing Rockledge City Hall. 1,200 sf / MEP / Structural

Port Orange Fire Department, Port Orange, Florida



COUNTY / MUNICIPAL BUILDINGS | STRUCTURAL DESIGN EXPERIENCE

Provided report on evaluation of existing systems and structure for condition and constructability for remodeling Fire Station and Administrative building. Prepared written report and assisted with planning for new facilities. Structural

Cocoa Police Station - Wash & Storage Building, Cocoa, Florida

New 24" x 36" vehicle wash and storage building. MEP / Structural

Toho Water Authority Administrative Complex, Kissimmee, Florida

Four-story administrative complex includes an integrated hardened emergency operations center to oversee District Water resources during emergency events. Project is Certified LEED Gold and received 2011 TCA Achievement Award and USGBC LEEDership Award for Large Projects. Subsequent retro-commissioning of building three years after completion to further improve energy performance. Concrete Construction and Concrete Producer Magazines' 2011 GreenSite Project of the Year Municipal Category. Signs of the Times International, 2011 Electric Monument Sign. Associated Builders and Contractors Central Florida Chapter, 2011 Award of Merit. Certified LEED NC 2.2 Gold. \$11.7 million / 55,000 sf / 2010 / MEP / Structural / Voice-Data / LEED Design and Administration / Energy Modeling / Fundamental Cx

Rockledge Police Headquarters, Rockledge, Florida

Environmentally hardened, two-story, energy efficient building includes interview rooms, booking intake and holding space, evidence processing areas, hazardous storage, armory vault, SWAT equipment room, community room, offices, records/archive space, locker rooms and communication/dispatch area. \$4 million / 22,331 / 2011 / MEP / Structural / AV / Voice-Data / Security

Palm Beach Gardens Emergency Operations & Communications Center, Palm Beach Gardens, Florida

New design-build emergency operations communication center is designed to FEMA Standards. The one-story EOC includes Enhanced Wind Storm Protection (205 mph, 3-second gust), masonry block walls, and precast concrete roof joists/roof deck. Project included structural design, design criteria for MEP systems and mechanical CA for three AHU's. Certified LEED NC 2.2 Silver. \$3.5 million / 17,000 sf / 2010 / Structural

Palm Bay City Hall Annex, Palm Bay, Florida

Developed MEP and structural design standards for City Hall Annex. Provided initial sustainability charrette and preliminary LEED assessment. Design Criteria Package consisted of 30% Design Development Level. \$5 Million / 25,000 sf / MEP / Structural

Wildwood Fire Station - Wildwood, Florida

Review of MEP systems, life safety systems, and structural design with recommendations for potential value engineering items for reducing the cost of renovations to meet FBC. Each Station - \$1 million / 4,000 sf

Davenport Fire Station, Davenport, Florida

Renovated existing 1,500-sf space with new energy-efficient HVAC and lighting along with apparatus bays and designed 2,000-sf-addition for sleeping areas, restrooms, showers, and kitchen. \$500,000 / 2011 / MEP / FP / Structural

Polk County Sheriff Evidence Storage, Lakeland, Florida

Renovation of existing furniture store into an evidence storage facility for Polk County Sheriff



COUNTY / MUNICIPAL BUILDINGS | STRUCTURAL DESIGN EXPERIENCE

Department. \$250,000 / 2012 / MEP / Structural

Gainesville Police Department Headquarters, Gainesville, Florida

Design-build delivery for new, two-story building including renovations to training center. New facility is hurricane hardened with redundant systems. Certified LEED NC 2009 Silver. \$11.6 million / 67,800 sf / 2014 / MEP / FP / Structural / Audio-Visual / Voice-Data / Security / LEED / Cx

Deputy Barbara A. Pill Sheriff Precinct, Titusville, Florida

New sheriff station for north Brevard County includes access control and audio-visual systems. Facilitated LEED Charrette to identify sustainable design features. Structure was designed to withstand up to Category 5 winds. \$3.2 million / 18,453 sf / 2014 / MEP / FP / Structural / AV / Voice-Data / Security

Titusville City Hall Chiller, Titusville, Florida

Permit drawings, including building department comments, contractor RFI's and C/A support for chiller replacement. \$50,000 / MEP / Structural

Brevard County EOC, Viera, Florida

Conceptual design for a new emergency operations center with 100% generator back-up, and HVAC redundancy in dispatch and equipment rooms. MEP / Structural

Cocoa Police Department HVAC Replacement, Cocoa, Florida

Designed replacement for AHU's on the first and second floors, added preconditioned outside air units, and provided redundant cooling for IT rooms and internet accessible HVAC controls. \$346,800 / 2013 / MEP / Structural / Cx

Rockledge Police Station Community Room, Rockledge, Florida

Addition of a community room to the existing Rockledge Police Station including infrastructure accommodations for potential future second floor. 1,100 sf / MEP / Structural

Grand Ravine Police Station Upgrades, Grand Ravine,

As-built documentation and required specific system improvements including analysis of structural integrity of the facility, analysis of existing retaining wall, fire alarm, and fire protection system design services, and structural engineering design services to incorporate two structural steel emergency egress stairs from the North and South third story low roof to the ground floor. 2014

Sun Air Fire Station, Highland City, Florida

The renovations and additions included adding 750 sf and remodeling 3,000 sf. Work involved relocating the kitchen and day area to the back of the building, relocating the sleep rooms to the front, and relocating the showers and office area. All new finishes and building systems were provided in the remodeled area. \$400,000 / 2013 / MEP / Structural

Polk County Design Criteria, , Florida

Design criteria for Polk County utilities Operation/Maintenance building, wind load information. Structural

Melbourne Police Department CSI Building, Melbourne, Florida

Concept design (30% CD's) including concept sketches and a rough order of magnitude cost



COUNTY / MUNICIPAL BUILDINGS | STRUCTURAL DESIGN EXPERIENCE

analysis for a new vehicle storage and forensics building, approximately 70'x40' for the City of Melbourne. \$200,000 / 2,800 sf / MEP / Structural

Melbourne Fire Training Facility Burn Building Structural Evaluation, Melbourne, Florida

Assessed the condition and structural integrity of the existing two-story facility, which is subject to repeated induced fires during training exercises and is exposed to the elements. 2015 / Structural

Melbourne Police Headquarters Building Assessment, Melbourne, Florida

Condition assessment of building systems including HVAC, Electrical, low voltage, and plumbing. 2015 / MEP / Structural

Toho Administrative Complex Buildout and Renovations, Kissimmee, Florida

Buildout of fourth floor and renovations to first floor to accommodate IT support services. \$1 million / 16,500 sf / 2016 / MEP / FP / Structural

Melbourne Police Headquarters Criminal Investigations Division Facility Building Assessment, Melbourne, Florida

Condition assessment of MEP systems and building envelope to identify necessary repairs and upgrades to 30-year old buildings. Estimated cost for improvements totals \$3.3 million. 23,193 sf Police Headquarters / 21,246 sf CCID / 2016 / MEP / Structural

Naval Medical Research Unit (NAMRU) Iquitos Administrative, Iquitos,

Review design of Administrative Wing to the Entomology Lab in Iquitos for seismic compliance to the US Seismic Codes and update of design drawings to bring to compliance with Code and Seismic/Specs intact updates, ATRP glass and Lab Preparation for Admin Wing of Building. Structural

Cocoa Police Department Headquarters, Cocoa, Florida

New 2-Story structure includes squad room, emergency response center, evidence storage and processing, records room, conference room, offices, holding cells, sally port, and controlled access. \$3.5 Million / 30,000 sf / MEP / Structural

Palm Beach Gardens Emergency Operations Communications Center, Palm Beach Gardens, Florida

Design/build delivery of one-story emergency operations communications center designed to FEMA Standards and including enhanced wind storm protection (205 mph-3 second gust) masonry block walls, precast concrete roof joists/roof deck. Construction administration included three AHUs. Certified LEED NC 2.2 Silver. \$3.5 million / 17,000 sf / 2010 / MEP / Structural / LEED / Design Criteria

City of Miami Fire Station #14, Miami, Florida

Two-story facility includes bays for four trucks, dormitories, offices, a recreation room, kitchen and support spaces. \$10 million / 10,000 sf / 2014 / MEP / FP / Structural / AV / Voice-Data / Security

Haworth Manufacturing Facility Safe Room, Bruce, Mississippi

One-story structural steel superstructure composed of composite steel, concrete roof deck and reinforced masonry walls. Designed to comply with FEMA-361 guidelines for community safe rooms and can withstand winds up to 250 mph. The shelter will serve as an assembly /



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meeting space during normal weather. Project was designed through CD's then put on hold.
3,000 sf / MEP / S

New Orleans Police Department, New Orleans, Louisiana

Structural design of a new police station building. The structural system includes steel framing with a dual lateral system of braced frames and moment frames. The long span metal roof deck is supported by curved WF steel beams. \$6 million / 18,000 sf / 2016 / Structural

Charlotte County Sheriff Office District 1 Headquarters, Englewood, Florida

New facility with consideration of life-cycle costs, long-term maintenance, energy conservation and long-term operational costs, with roll call room and supervisor offices, detective work area with interview rooms, records room, training room, evidence room, armory area and other ancillary functions, emergency generator, exercise area with locker room and showers, general offices and storage areas. \$3.3 million / 12,000 sf / 2016 / MEP / FP / Structural / AV / Voice-Data / Security / Cx

Putnam County Public Complex, Cookeville, Tennessee

New complex consists of a 31,000 sf, two-story health department/elections commission building with 31 exam rooms, three labs and dental clinic and a 35,000 sf, two-story emergency management services building. \$12 million / 66,000 sf / 2009 / MEP / FP / Structural

Charlotte County Sheriffs District 3 Headquarters, Port Charlotte, Florida

New facility consists of two separate buildings: an 18,000 sf district facility and a 20,000 sf evidence facility. District facility building houses offices, interview rooms, record room, training room, armory, exercise area with lockers and showers, and ancillary support spaces such as storage and mechanical/electrical rooms. Evidence facility building has warehouse storage, office space, processing areas, and exterior storage. \$8.5 million / 38,000 sf / MEP / FP / AV / Voice-Data / Structural / Cx

Melbourne Police Department Headquarters & Emergency Operations Center, Melbourne, Florida

Multi-phase project includes Space Needs Assessment to identify current and future needs for a new police facility building, design, and construction administration services. The new facility also includes the City's emergency operations center. \$25 million / 2019 / MEP / FP / Structural / AV / Voice-Data / Security

Rockledge Fire Station 36, Cocoa, Florida

New two-bay fire station includes day room, full kitchen and dining, gym, four bunk rooms, laundry and storage rooms. HVAC includes 11 tons of total cooling capacity. A wet sprinkler system provides fire protection coverage for all areas of the building. LED lighting is utilized in all interior and exterior fixtures. The building can withstand winds up to 160 mph. \$1.6 million / 5,000 sf / MEP / FP / Structural

Indian Harbour Beach Police Headquarters and EOC, Indian Harbour Beach, Florida

New construction of an approximately 13,300 sf +/-, single story police station with Sally Port and an 800 sq. ft. storage building and three car capacity impoundment. \$300,000 phase 1 / 14,100 sf new construction / 2020 / MEP / Structural / Cx /