



MEP DESIGN FOR PREFABRICATED METAL BUILDING

PROJECT LOCATION: UF IFAS Horticulture Garden Facility – Gainesville, Florida
EXPERIENCE OF: Mitchell Gulledge Engineering, Inc.
ROLE IN PROJECT: MEPF Sub-Consultant

CONSTRUCTION COST

\$1,300,000

COMPLETION DATE

July 2020

PROJECT STAFFING

Project Manager:

Craig Gulledge, PE, CxA

Mechanical Lead:

Craig Gulledge, PE, CxA

Mechanical Design:

Ark Szczurowski, PE, CxA

Plumbing Lead:

Andrew Mitchell, PE, CxA

Plumbing Design:

Lynsey Wrenn

Electrical Lead:

Andy McCaddin, PE, RCDD

Electrical Design:

Beth Flick, NICET



PROJECT OWNER

University of Florida IFAS Facilities
Planning and Operations
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BUILDER

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PROJECT ARCHITECT

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PROJECT ENGINEER

Mitchell Gulledge Engineering, Inc.
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PROJECT SUMMARY:

The UF Institute of Food and Agricultural Science (IFAS) Horticulture Garden Facility is a new single-story 3,750 SF pre-engineered metal building located at the University of Florida’s main campus. Mitchell Gulledge Engineering was contracted as the MEP engineer for this project. This new multi-purpose teaching facility includes provisions to serve up to 50 students and consists of a vegetable processing area, walk-in cooler, storage spaces, offices, accessible restrooms, IT room, breakroom, and a large covered area. The HVAC mechanical scope included restroom exhaust fans, split-system DX heat pump, and duct distribution systems. The plumbing scope of work included domestic water and sanitary waste/vent provisions for the vegetable processing area, breakroom, hose bibbs, electric watercoolers, and restrooms. Special consideration was given to the vegetable processing area and collaboration with Environmental Health & Safety. An electric water heater was utilized to provide domestic hot water to the lavatories and sinks. The project’s electrical systems consisted of building power, building lighting, and site power including a new 150 kVA transformer, security access power via motorized gate, branch panelboard, and concrete encased duct bank for site distribution power. Additionally, several existing buildings were refeed power and site provisions were included for future use. As the project’s MEP sub-consultant and engineer of record, Mitchell Gulledge Engineering provided pre-design, design, and construction administration services including site inspections, submittal reviews, and as-built documentation.

The University of Florida’s Institute of Food and Agricultural Sciences educates the local community by offering hands-on, eco-friendly learning in many diverse fields including horticultural. Their team of educators brings the wonders and pleasures of sustainable garden cultivation and management into our local neighborhoods. Mitchell Gulledge Engineering is proud to contribute to the success of programs like these and looks forward to future endeavors. The UF IFAS Horticulture Garden Facility is an exemplar project that showcases our technical strengths and ability to meet specific client requirements. We worked closely with UF IFAS facilities, the contractor, and the project architect to help ensure this project’s success and meet the exacting construction standards of an institutional client. We are enthusiastic to apply this same level of passion, engineering fortitude, and attention to detail to all our projects.

