



K-12 CHILLER PLANT UPGRADE

PROJECT LOCATION: Forest High School Chiller Plant - Ocala, Florida
EXPERIENCE OF: Mitchell Gullledge Engineering, Inc
ROLE IN PROJECT: MEP Design Sub-Consultant

CONSTRUCTION COST

\$800,000

COMPLETION DATE

Chiller #1 Phase:
August 2020

Chillers #2 & #3 Phase:
January 2021

PROJECT STAFFING

Project Manager:
Andrew Mitchell, PE, CxA
Mechanical Lead:
Andrew Mitchell, PE, CxA
Mechanical Designer:
Evelyn Dicks, PE, CxA
Electrical Leads:
Chiller #1 Phase:
Andy McCaddin, PE, RCDD

Chillers #2 & #3 Phase:
Peter Rizov, PE

PROJECT OWNER

Marion County Public Schools
Robert Knight
1105 SW Seventh Road
Ocala, FL 34471

BUILDER

Trane Commercial Systems
John Mathews
2301 Lucien Way, Suite 430
Maitland, FL 32751



PROJECT SUMMARY:

As a design-build contact with Marion County Public Schools, Trane Commercial Systems hired Mitchell Gullledge Engineering to design a new 980 ton air cooled chiller plant for Forest High School. The existing chiller plant consisted of three air cooled chillers totaling 980 tons in cooling capacity. The design included all necessary phasing considerations for installation during the school year that would minimize disruptions and system downtime. Mitchell Gullledge Engineering analyzed the existing piping system configuration, chiller yard layout, and electrical capacity constraints. As Engineer of Record, Mitchell Gullledge Engineering developed the necessary construction document drawings and specifications and performed construction site inspections to review the chiller installation.

We understand the value of communicating with the facility stakeholders about how a renovation project is going to affect their operations. Mitchell Gullledge Engineering consulted with Marion County Public Schools project management and facility services personnel to develop the project scope of work to upgrade the existing chillers, review capacity requirements, and discuss utility impacts. Additionally, Mitchell Gullledge Engineering understands that public education facilities are under pressure to maximize state funding allocations. Mitchell Gullledge Engineering worked with Trane in order to select new air-cooled chillers that would deliver the highest efficiency while keeping cost and utility impacts minimal.

