



Services Provided |
Mechanical & Electrical Prime
Design, Bid + Construction Phase
Services

Cost | \$4,290,000

Completed | August 2021

Project Delivery Method |
Competitive Sealed Proposal

Structural Engineering |
Wilkerson & Sanders

SCA Team |

Project Manager:
Jared Merdes, P.E., MBA, LEED
AP

Department Leads:
Mike Kesterson – Electrical Design

This project consisted of complete replacement of existing HVAC chilled water central plant equipment and partial replacement of associated underground site chilled water piping replacement at Gregory-Portland ISD High School Campus. SCA structured the design into five (5) distinctive phases to allow work to be performed while the existing central plant remained operational to ensure continuous chilled water services to the existing campus facilities at all times. The project was designed for the existing central plant, the new Phase 1, or the new Phase 2 central plants to operate independently. The existing Central Plant was to remain functional during Phase 2 as a backup cooling source in the event of a system failure associated with the Phase 1 work. This design sequence eliminated the need for temporary (rented) water chillers.

Design Sequence

Phase 0. This phase included complete underground chilled water piping installation from the existing Central Plant to the newly constructed High School Career Technology Center project.

Phase 1. Replacement of Chiller #1, pumps, and cooling tower.

Phase 2. Replacement of Chiller #2.

Phase 3. Replacement of Chiller #3 and installation of new pony chillers.

Phase 4. Final completion of the Project will all systems operational.