



GREGORY-PORTLAND INDEPENDENT SCHOOL DISTRICT – PORTLAND, TEXAS NEW MIDDLE SCHOOL + ADDITION



Services Provided |
MEP Design + Construction Phase
Services

Cost | \$55.8 million

Completed | 2021

Project Delivery Method |
Competitive Sealed Proposal

Project Architect |
RMA Architects

SCA Team |

Project Manager:
Abel Garcia – Plumbing Design

Department Leads:
Scott Stridde, P.E. – Electrical Design
Jared Merdes, P.E. – HVAC Design

This project consisted of the demolition of the existing Gregory-Portland Wildcat Learning Center and the construction of a new 6th-8th Grade Middle School. This new school includes general classrooms, special needs classrooms, computer labs, science laboratories, media center, kitchen, cafeteria, band halls, gymnasiums, locker rooms, and other ancillary spaces.

MEP site development included the construction of the entire campus electrical distribution system, site lighting and IT distribution infrastructure.

Plumbing systems included acid waste systems, grease waster systems, natural gas piping systems, storm water systems, and bank of tankless hot water heaters for the domestic hot water system for the kitchen and locker rooms.

Electrical design included the distribution system, fire alarm, intercommunication, IT infrastructure, CCTV and access control rough-in. Illumination systems with IECC compliant digital control systems and theatrical lighting systems were also included.

A study of the chilled water central plant requirements was performed during the schematic design phase. Five (5) schematic HVAC central cooling plant design options were presented to Gregory-Portland ISD. All of the options were predicated upon efficiency, stability of operation, maintainability, longevity of service, ability to perform at low load conditions, and varying levels of redundancy and growth flexibility. The district opted for a new Central Plant to serve the New Middle School and also service the existing adjacent TM Clark School. The design included a fully variable primary chilled water flow system with all water chillers piped in parallel; small pony chillers to operate after hours to provide cooling services for IT systems and primarily unoccupied load conditions. The selected central plant system has the ability to operate both primary water chillers and the pony chillers concurrently to provide increased total plant capacity.

STRIDDE, CALLINS & ASSOCIATES, INC.

342 S. Navigation Boulevard ▪ Corpus Christi, Texas 78405 ▪ p: 361.883.9199 ▪ e: info@scaengineering.com