

Location
• Napoleon, Ohio

Services Provided
• Structural, Mechanical, Electrical Engineering

Cost
• \$950,000

Schedule
• 2013-2014

PDG Project Team

- Gregory P. Wright, P.E., Project Manager, Mechanical Engineer
- Daniel L. Knott, P.E., Electrical Engineer
- Phillip A. Whaley, P.E., Structural Engineer

HVAC SCHEMATIC DESIGN REPLACEMENT SYSTEMS

PDG has completed the design and engineering services for replacement three (3) 50,000 CMF air handling units as part of the HVAC system upgrades at a Napoleon manufacturing facility. Design and engineering included the following services:

- A glycol loop based on required for the specified chiller Control Sequence and Control Points List
- Equipment and piping layout
- Electrical power infrastructure
- Structural modifications as required for equipment placement on the roof and other areas on site
- Specifications for the replacement of 3 Air Handling Units



DESIGN BUILD PROJECT

Location

- Maxton, NC

Services Provided

- Architecture, Structural, Site, Mechanical, Plumbing, Electrical, Fire Protection

Cost

- \$7 million

Project Size

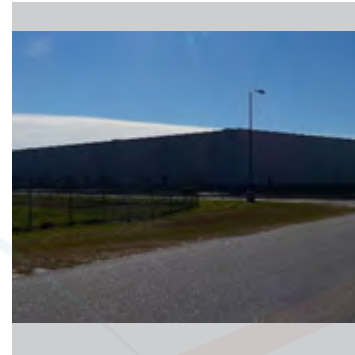
- 186,400 s.f.

Schedule

- Professional Services 2015
- Construction: 2016

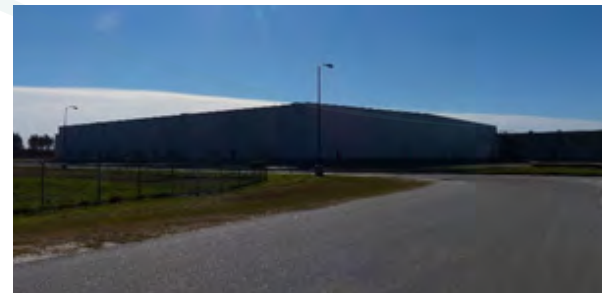
Project Team

- Scott P. Schroeder, P.E. Project Manager
- Brad M. Thomas, P.E.
- Edward N. Frobase, P.E., R.A.
- Phillip A. Whaley, P.E.
- Daniel L. Knott, P.E.
- Gregory P. Wright, P.E., LEED AP BD+C
- Timothy J. Nelson, LEED AP



CAMPBELL SOUP COMPANY WAREHOUSE EXPANSION

PDG provided Site, Architectural, Structural, Mechanical, Plumbing, Fire Protection, and Electrical design for Rudolph-Libbe as the Design/Builder for a 186,400 SF high bay warehouse addition to an existing warehouse and manufacturing plant. The addition included new truck docks and fixed, high rack storage. Project included new fire water tank and diesel fire pump building. Site design included wet detention basins for storm water control.



Project Relevance

- Design-Build
- Demolition
- Occupied Space

Reference

Matt Arnold
 Rudolph-Libbe
 6494 Latcha Road
 Walbridge, Ohio 43465
 419.241.5000



Location

- Bowling Green, Ohio

Services Provided

- Architectural, Structural and Civil Engineering

Size

- 400,000 s.f.

Cost

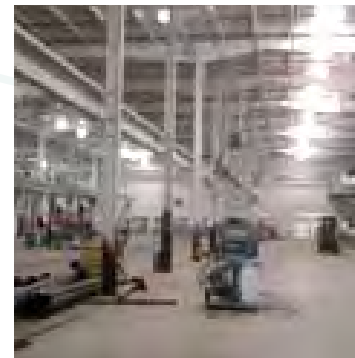
- \$20 million

OWENS BROCKWAY

PLASTIC INJECTION MOLDING FACILITY

PDG provided architectural, structural and civil engineering services for a new 400,000 s.f. plastic injection molding plant for prescription bottle closures. Project included resin storage silo foundations, tanker truck unloading facilities, off-site rail car siding and tanker car unloading facilities, as well as product shipping and equipment receiving areas.

Whole plant air conditioning/humidity control equipment support structures and piping hangers were installed. Support facilities inside the plant included offices, Q/C room, die repair shop, resin feed and mechanical rooms. Fifteen ton overhead bridge cranes and supports were provided for die removal and repair. The project was completed under a fast track design/build arrangement.



Reference

Mr. Brian Seger
419.241.5000



Location

- Clark County, Nevada

Services Provided

- Structural and Mechanical Engineering, Drainage Evaluation, Environmental Planning

Size

- 8,000 SF Renovation
- 1 acre Flare Station

Schedule

- Professional Services 2012

GAS BIO-DESULFURIZATION FACILITY AND FLARE STATION

Apex Regional Landfill

PDG provided structural and mechanical design and detailing of the 8,000 sq. ft. Bio-Desulfurization building and foundations, mezzanine, elevated equipment frames, and catwalk systems. Poggemeyer also provided equipment and process piping anchorage for all of the tanks, scrubbers, solution contactor, and pumps. Equipment foundations, anchorages, and pipe supports for the approximately 1 acre Flare Station equipment and piping area were designed as well.

Final construction drawings for all interconnecting process piping directly related to the "bio-desulfurization" facility were also designed by PDG. Owner provided preliminary concept plans, and P&ID drawings were used to generate an accurate 3D model of the final building, tanks and all interconnecting piping. Piping modeled for this process primarily included 3" to 18" Green thread FRP (fiberglass reinforced plastic) pipe, and 3/4" to 2 1/2" Polypropylene.

■ more...



Reference

Glenn W. Johnson, P.E.
CR MEYER General Manager
231.739.9232



■ Gas Bio-Desulfurization Facility and Flare Station



■ Piping plans, sections, details, and complete “Bill of Materials” were provided for all systems as well. Seismic pipe supports were also indicated and detailed on the drawings.

The condensate tank farm included a truck loading station and secondary spill containment area. A 30 foot span swale crossing bridge was added for large diameter landfill gas pipes.

PDG provided a technical drainage study to address off-site and on-site flows affecting the 8 acre site. Grading and drainage plans were designed to show the 8,000 sq. ft. building, 64' x 6' trapezoidal drainage channel, concrete truck drive and outdoor secondary spill containment area. PDG also prepared utility plans for the well treated water system and underground septic sewer system. A landfill permit application to modify the existing solid waste management plan was also prepared for this project.

