

APPLICATION OVERVIEW:

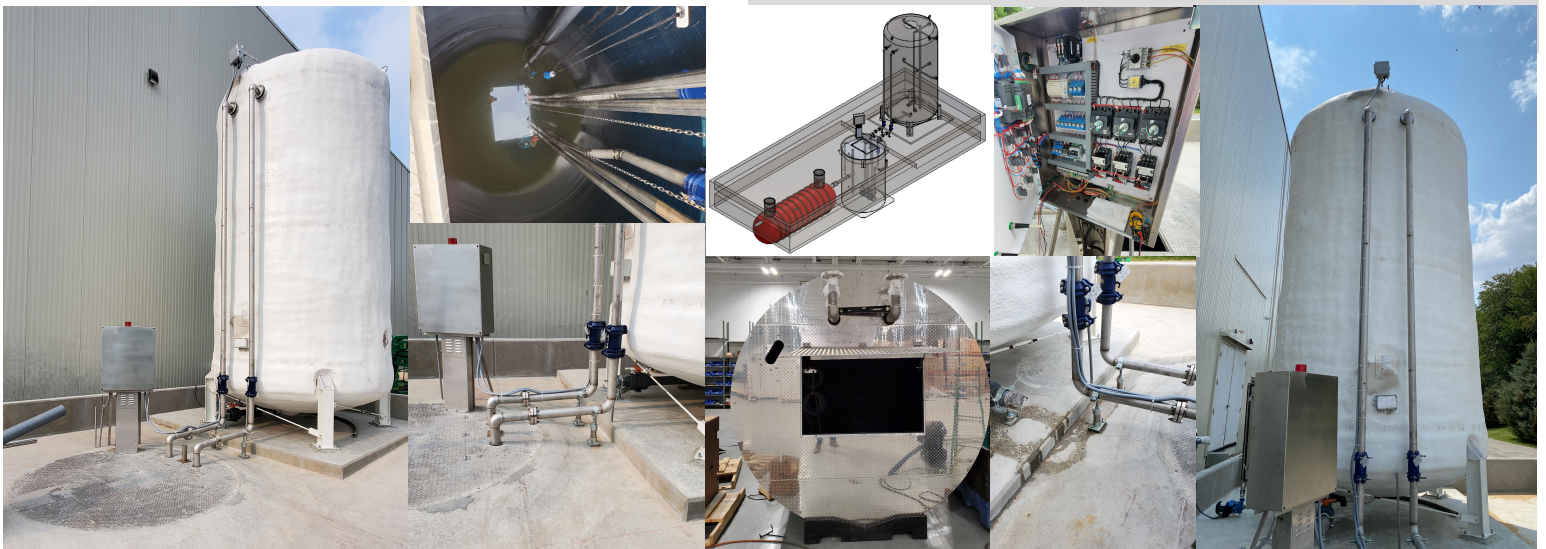
We designed an industrial pretreatment pump station for a leading American Food Manufacturing Plant in Baltimore, Maryland. This system design helped combat backup and flooding when washing down production equipment at the end of a shift. It utilized an 11,000 gallon wastewater storage tank and 3,000 gallon grease interceptor. The pump station discharged into the 11,000 gallon above ground tank which was insulated & heat traced, which then gravity flowed into a DAF system.

PUMP STATION DETAILS:

Our team engineered and constructed this prefabricated fiberglass pump station, measuring 8 ft. in diameter and 12 ft. in depth. Excel Fluid Group factory-installed all components within the wet well, including the piping and valves. This setup features two Barnes submersible Grinder pumps, delivering the necessary 100 GPM at 33.15 TDH, all controlled by an Excel NEMA 4X duplex control panel. The above ground tank included a submersible mixer to keep any solids from settling out at the bottom of the tank.

INSTALLATION:

The installation was completed by the team at the Food Manufacturing Plant with the oversight of Excel Fluid Group as shown below.



Baltimore, MD

Food Manufacturing Plant



PUMP SYSTEM

Fiberglass Lift Station, Storage Tank, and Grease Interceptor



INSTALL DATE

July 2021



OPERATIONAL IMPROVEMENT

Preventing Factory Flooding



SERVICE AREA

Food Manufacturing Plant - Industrial Pretreatment



September 2021

Design-Build Pump Stations