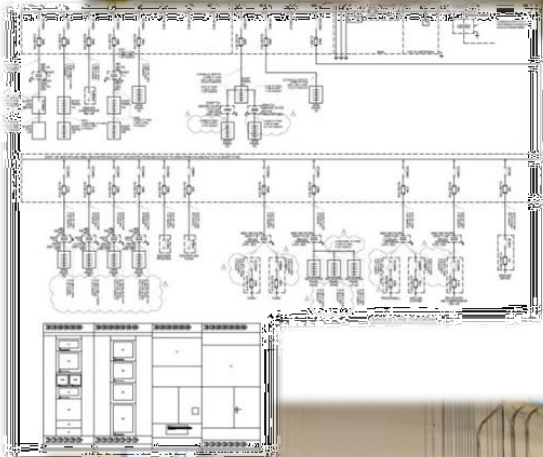


Lipo Technologies Englewood Facility Design

Englewood, OH

Construction Completion: 2014
Construction Cost: \$2,430,000
Size: 81,250 SF

Tri-Tech Services: MEP Engineering
Structural Engineering
Project Management



Project Description

Lipo Technologies purchased a building in Englewood, OH, to relocate their existing equipment to meet growing production demands. Working with Lipo, Tri-Tech determined a new layout to accommodate Lipo's production equipment in the new facility. Tri-Tech also designed additional infrastructure to accommodate for their new production processes.

Tri-Tech's design supported use and storage of hazardous materials, including necessary special requirements for fires, explosions, and spill containment. The design also incorporated a new cleanroom area and laboratory areas for product testing, research, and development.

To ensure a timely renovation, Tri-Tech utilized the existing building's utility infrastructure where possible, adding and modifying systems as necessary to accommodate Lipo's production's process new functions. The mechanical systems in Tri-Tech's design's incorporated new rooftop units, compressed air and steam systems, and chilled-water piping system. The plumbing design included sanitary piping for a separate effluent tank for hazardous fluids and specialized containment for hazardous chemicals.

Tri-Tech designed electrical systems to utilize the existing main-service distribution. It added bus-duct distribution with multiple connections, and it planned to replace most of the interior lighting. The project required structural engineering as well. Tri-Tech designed modified foundations for the new equipment and replaced the existing loading dock infrastructure for hazardous chemical containment.

Tri-Tech served as the project administrator, as well as developing contracts and bidding documents for sub-contractors.