

## Electrical / Controls Engineering Services

Siebert Engineers, Inc. provides electrical engineering design services for a small project, such as a new single loop temperature controller, or a large project like a new 5,000 Amp 4160 VAC power feed. Siebert's goal is to tailor the level of design detail to the customer's standards.

### Project Feasibility Studies

- Determine New Loads
- Survey Existing Supply and Distribution
- Sketch New Power Supply and Distribution Concept
- Develop Conceptual Cost Estimates

### Engineering Design

- Incoming Service, New or Modification
- Power Distribution
- Motor Control Centers
- Lighting Calculations and Selection
- Area Classification
- Single Line Diagrams
- Incoming Service and Equipment Grounding
- Conductor and Conduit Sizing
- Conduit and Cable Schedules
- Specification of Equipment

### Instrumentation and Controls

- HMI and Control Panel Design
- PLC and HMI I/O Schematics
- Control Loop Wiring Diagram
- Device to Controls Wiring Details
- Functional Specification of Controls Hardware
- Process and Packaging Equipment Emergency Stop Circuits

### Plans and Specifications

- Preparation of Drawings Used for Bid and Construction
- On-Drawing or Book Specifications

### Industries Served

- Food and Candy Manufacturing
- Chemicals, Personal Products, and Hazardous Materials Processing
- Commercial and Retail
- Industrial Manufacturing
- Hazardous Location, Wash Down, Dust Tight, and General Classifications

### Project Types

- New Construction
- Building Additions or Modifications
- New or Modified Manufacturing Process or Packaging Operations

