



# ELECTRICAL SYSTEM PLANNING

*DESIGNED TO HELP YOUR COMMUNITY SUCCEED*

**“Enhancing economic development through infrastructure”**

**Why you should choose SPECTRUM for ...**

## • **Substation Services**

When electric power substation services are required, many municipalities, universities, rural electric cooperatives, and industries know that Spectrum Engineering is the only source they'll ever need.

**Our complete substation services include providing...**

- Development of project-specific design criteria, making use of nationally recognized, industry-specific design manuals
- Complete design drawings
- Detailed specifications for major equipment and construction
- A thorough quality audit trail throughout every project
- Assistance in bidding for and procuring labor and equipment
- Project construction assistance / management at any level required
- Full testing and commissioning
- Complete training on the new equipment
- Substation maintenance and repair (even for substations we haven't designed or built)

**We typically use the following design software to product our substation design documents:**

- AutoCAD and/or Solid Works
- The Microsoft Suite of Software
- E-Tap, ASPEN or EDSA Study Software
- PLS-CADD Line Design Software

**The process we follow on a substation project generally includes our...**

- Meeting with the utility owner to discuss design criteria
- Developing design criteria unique to the project
- Developing base drawings and specification requirements
- Developing the schedule and cost estimates
- Meeting with the owner to obtain approval on moving ahead with the detail design
- Developing the detail design documents, including major equipment specifications as well as detail drawing bills of material, schedules, and cost estimates
- Meeting with the owner to obtain approval on moving ahead with the construction documentation
- Developing construction documents, including construction drawings, specifications, cost estimates, and schedules
- Assisting in project bidding by...
  - Providing construction documentation
  - Attending pre-bid and bid opening meetings
  - Analyzing bids for adherence to specifications
- As desired, providing construction assistance / management at whatever level needed
- Providing testing and commissioning services for each piece of equipment or each system.

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