



Richard Schoch and Associates (LLC)

Electrical Design Consultants in: Electrical, Water/Waste Water Supervisory Control, Data Acquisition and Integrated Plant Management Computer Systems Design

PROPOSAL LETTER

Date: December 19th, 2017

Attn: Mr. Mark Johnson
City Hall
 400 La Crosse Street
 La Crosse, WI.54601

RE: Electrical system Upgrade to allow for the installation of Emergency power connection, Manual Transfer Switch and Variable Frequency Drive for Well No.14, City of La Crosse WI.

Dear Mr. Johnson

On behalf of Richard Schoch and Associates I am pleased to offer our electrical design services proposal for the referenced project.

This proposal is based on information received from you on 02-17-2016.

In general, the project consists of designing an Electrical System Upgrade to allow for the installation of Emergency power connection, Manual Transfer Switch and Variable Frequency Drive for Well No.14, City of La Crosse WI.

Electrical and Control Systems to replace traditional three speeds well pump 200 HP motor controller with a ALLEN -BRADLEY 250 HP Variable Frequency Drive.

Our services will consist of Electrical Design, and Consulting to include preparing electrical markups for Final Design documents, assistance during Bidding or Negotiating, all as set forth in the following scope of services.

DESIGN PHASE SERVICES

- New Power distribution
- Electrical service (Main switch with SPD) (required for Fault Current Coordination)
- New Motor Control Center with variable frequency Drive Motor Controller for well pump.
- Integral to MCC (20) circuit 120/240-volt 1 phase lighting and power panel (required for fault current coordination)
- Coordinate XCEL ENERGY Fault current ratings and specify new main switchboard to match available fault currents in accordance with current NEC requirements.
- Specify Fault current analysis and short circuit coordination study including labeling of equipment.
- Reconnection of all existing 480 volt loads to main switchboard and 120-volt panel.
- The City of La Crosse Engineering Department shall provide dimensioned floor and site plan of Well No.14 in PDF format to RICHARD SCHOCH AND ASSOCIATES for use in developing electrical drawings

GENERAL

- Equipment connection schedules
- Special Purpose Connection Schedule

- All applicable calculations
- Utility Coordination
- (1) Design development meeting
- Normal coordination with other trades
- Deliverables: Electrical drawings in Pdf format furnished to the City of La Crosse Engineering Department by RICHARD SCHOCH AND ASSOCIATES (LLC).
- Division 16 Electrical specifications (for bidding).
- Opinion of Probable Cost for Electrical Construction.
- Normal coordination during bidding (clarification, addendum, etc.)
- Incidental expenses (normal telephone, travel, etc.)

INSTRUMENTATION

- Reconnection of all existing Instrumentation to new RTU.

SUPERVISORY CONTROL AND DATA ACQUISITION

- ◆ Disconnect all Scada electrical and SCADA components from the existing RTU and reinstall in New MCC section attached to MCC.
- ◆ addition of programming for VFD and Emergency Generator I/O, s.
- ◆ I/O checkout
- ◆ upgrade Graphic Displays, monitoring and alarms in existing O/I ,MTU and PC, S for Well no.14.

BID PHASE SERVICES

- Pre bid Meeting (at City Hall)
- Normal coordination during bidding (clarification, addendum, etc.)

CONSTRUCTION PHASE SERVICES

- Shop drawing review
- Normal construction coordination (interpretation, clarification, etc.)
- (1) site visit to review systems installation (includes final review with written report of finding) and generator startup.
- (1) site visit for i/o checkout

SERVICES NOT INCLUDED:

- "FRONT END" of specifications for bidding to be provided by the Lacrosse Engineering Depot.
- Construction phase site visits Additional site visits will be billed at the amount stated under the "Compensation" section below.
- Construction phase services
- Production of record drawings (to be turned over to Owner by Contractor)
- State of Wisconsin plan approval fees (reimbursable)
- Plumbing systems design
- HVAC systems design
- Fire and smoke detection systems.
- Security access system
- Fire protection systems design
- Preparation of "Invitation to Bid" • Advertising of "Invitation to Bid" "Front end of Specifications"
- Project construction administration other than noted above under Construction Phase Services • Processing or review of pay requests

COMPENSATION

Cost estimate Break down:

1. Design and Bid phase	\$7825.00
2. Construction Phase	<u>\$1200.00</u>

Total 1 & 2

\$9025.00

For the above described work Richard Schoch and Associates proposes the following fee:

- *A lump sum fee of Nine Thousand Twenty-Five & 00/100 Dollars.*

ADDITIONAL SERVICES:

We will also furnish such Additional Services as you may request. Additional services will be charged on the basis of our current hourly rate schedule plus reimbursable, unless other arrangements are agreed upon.

The following services are considered additional and are not covered under this agreement and must be requested in writing by the client for Richard Schoch and Associates' authorization to proceed. These services will be included as an amendment to this contract and can only be performed upon mutual consent by both parties:

1. Revising previously approved drawings, specifications or other documents to accomplish changes not initiated by Richard Schoch and Associates other than revisions required to correct deficiencies in the approved documents. Bidding documents (drawings, specifications, details, etc.) once turned over to the client are Considered to be previously approved.
2. When additional work is required in preparing documents for alternate bids when requested by the client.
3. Providing consultation and other services in connection with contractor errors in installation when in direct conflict with plans, specifications, or codes.
4. Providing consultation concerning replacement of any work damaged by fire or other causes during Construction, and furnishing professional services as may be required in connection with the Replacement of such work.
5. Providing Value Engineering/Cost Reduction of the project when so directed by the client when Richard Schoch and Associates' design is within established budgets.
6. Providing services other than code corrective design work, after final payment to the construction contractor(s).

SCHEDULING

We would expect to start our services promptly after receipt of your acceptance of this proposal. The time periods for the performance of our services are set forth as follows: In a timely manner based on the timely receipt of information from the client.

Please let us know at your earliest convenience if this proposal is satisfactory and sets forth your understanding of the proposed work. If so, we will then prepare a simple agreement for your review or if you wish we can review one of yours.

This proposal represents our understanding in respect to the Project. If you would like us to consider any modifications to this proposal or if you have any questions, you can contact me at [(715) 667 3502], [715 456 9159] or via E-mail :rschoch11@charter.net.

We look forward to working with you on this project.

Thank you for your consideration.

Sincerely,

President- Richard Schoch

RICHARD SCHOCH AND ASSOCIATES (LLC)

ELECTRICAL DESIGN CONSULTANTS

Telephone :715 667 3502, Cell Phone 715 4569159, E-mail rschoch11@charter.net.