



Total Control Systems, Inc
38841 Nyman Drive NE
PO Box 40
Stanchfield, MN 55080-0040
Phone 320-396-4442 / Fax 320-396-4443

August 5, 2015

To: John Nelson Re: Ramsey, Minnesota – #1 Lift station

Total Control Systems, Inc. (TCS) proposes to furnish (only) equipment in accordance to the project plans and specifications to meet the full functional intent of the specifications that were received.

SLS #1 Pump Station Control and SCADA

Including:

- Liftstation control panel
- CT cabinet required by Power Company**
- Main Breaker/Gen Transfer sw. (SE rating)
- NEMA 3R 2 door stainless steel enclosure
- Inner doors
- Enclosure SS legs and skirts with louvers
- Incoming power terminal block
- Generator Receptacle reused from old and remounted
- Pump circuit breakers
- Control/Secondary circuit breakers
- Hand-Off-Auto switches, oil tight, 30 mm
- Pushbutton switches, oil tight 30mm
- Lamps, LED, oil tight, 30mm
- Condensation heater/fans, 400 watt
- Pump VFD's 7.5 hp
- Power monitor
- Lightning arrester (TVSS) 25KVA
- Intrinsic barriers Class I, Div 1, Group C, D
- Relays
- GFI receptacle rated at 15 amps
- Control power TVSS
- Radio (MDS SD4)
- Antenna (gold anodized)
- Lightning arrester RF
- RF cable and connectors
- Uninterruptible power supply (UPS)
- Radio power supply
- Elapsed time meters (2)
- RTU outlet
- Floats (2)
- Float mount kit
- Submersible transmitter KPSI
- Allen-Bradley Micrologix 1400
- Backup controller
- Operator interface 6" color

Cooling fans, SS panel hoods and thermostat
Door switches
Documentation
Master PLC program modifications
SCADA software and screen additions
Reports
Master alarm dialer programming
Training
Testing and commissioning
Electrical contractor Bonded, licensed and insured
Electrical permit
Installation, wiring pumps, float, transducer and antenna
Site work and concrete pad for panel
Core drilling
Demo old equipment
24 foot direct bury fiberglass pole
Site LED shoebox lamp

Price for the control panel package: **\$45,105.00 lump sum**

Does **not** include:

Taxes (City exempt)
Bonds
Electric utility charges
Restoration (by City)

- We acknowledge receipt of Addendum No .
- Terms are Net 30 days from invoice date. No retainage allowed. A 1.5% charge per month added to any past due balance. Price may be dependent on past credit history.
- All Terms in accordance to project contract specifications.
- This quote/proposal valid for 60 days.
- Work to commence after receipt of an acceptable written purchase order acknowledging acceptance of our terms.
- F.O.B. job-site.
- Start-up service/training, documentation and equipment adjustment is included as specified.
- TCSI does not accept any liquidated damages.
- ALL PANELS FURNISHED BY TCS WILL HAVE A UL508 SERIALIZED OR UL698A ENCLOSED INDUSTRIAL CONTROL PANEL RELATING TO HAZARDOUS LOCATIONS WITH INTRINSICALLY SAFE CIRCUIT EXTENSIONS LABEL, AS REQUIRED.

If you have any questions regarding our proposal, please contact our office. We look forward to working with you on this project.

Sincerely,
TOTAL CONTROL SYSTEMS, INC.

Al Doberstein
AD/lb