

ProPump&Controls

Mission Valley

1851 Mission Valley Blvd
Nokomis, FL 34275

Project:

ProPump and Controls to provide labor and material to replace the existing irrigation pump station. Proposal includes all required equipment, materials and labor to install the MCI Flowtronex manufactured product.

Scope of Work:

Existing station removal

- Disassembly and deconstruction of the existing irrigation station.
- Equipment rental and crane contractor as required
- Wet well dive inspection and clean out prior to new installation, performed by licensed and certified diver. Disposal of collected material off site
- Clean and prep concrete slab, remove existing skid anchors
- Off-site disposal of the old station material

Installation

- Coordinate with manufacturer for station engineering design and layout.
- Coordinate install scheduling with manufacturer and customer
- Station skid components and control cabinet to be engineered to fit the existing footprint.
- Station mechanical assembly as designed by manufacturer. Discharge transition pipe connection to the existing irrigation mainline. (Requires excavation and partial building wall modification)
- Level and align skid, piping, and pumps. Secure station components w/ provided concrete wedge anchors and plates
- Electrical connection to the existing service disconnects

Start-Up

- Verify all electrical terminations, joint fittings and structural components are secure and in accordance with factory specifications.
- Perform pre-power checks as specified by manufacturer.
- Verify incoming voltage variance and imbalances are within factory recommended tolerances.
- Power up checks as specified by manufacturer.
- Verify proper motor rotation prior to operation.
- Station performance testing and evaluation.
- Complete manufacturer's Start Up report
- Operator training and remote monitoring setup assistance

Product Specifications:

Requirements: 1500 GPM at 120 PSI at station discharge
Supply Power: 480/3/60
Pumpset: 10' (Unconfirmed)
Wetwell Depth: 11' (Unconfirmed)
Wetwell Size: 72" (Unconfirmed)

1 Ea. MCI UL Listed QCZJ Packaged Pump Station
Part Number PPS-N-VT3-1500-120-SV-P-48-3-6

UL Listed Pump Station complete with skid, sch40 steel manifolds, isolation valves, vertical turbine pumps/motors, filters, check valves and discharge flow meter. Standard MPC controls with single VFD drive and alternating contactors so each main motor may run XL or VFD. Built under ISO9001:2015 certification.

MPC Standard Controls

- UL 508a Listed Control Panel shipped loose with 6" leg kit
- Short Circuit Current Rating 100 ka
- NEMA 3R Enclosure
 - 3 Point Latch
 - Carbon Steel w/ Powder Coat Finish
- Air conditioning unit
- 400-amp Main Fused Disconnect
- Type 1 Surge Protection w/status indicators
- Incoming Line Phase Monitor w/primary fusing
- PM Pump 5 HP
 - Class J fuses/block per contactor
 - AB Contactor w/1 AB SS OL per motor
- 3 Ea. Main Pump 50 HP
 - 1 Ea. 50HP Variable Frequency Drive w/high speed JKS fuse protection
 - 3 ½% DC Input Link Reactor
 - Door Mounted Keypad
 - 50 HP 6 Year Warranty on VFD which includes coverage against damages from momentary line or load anomalies such as lightning strikes.
 - Class J fuses/block per contactor
 - AB Interlocked Contactors w/1 AB SS OL per main motor
- AB compactlogix PLC Platform
- AB 10" Panelview +7 Color HMI
- Inhand Network Switch with Modem
- AB DC Power Supply
- AB "Full Size" 30 mm N4 Door Devices
 - Green Illuminated Switch per pump
 - System Switches: System Control, Low Discharge, VSD Bypass, PLC Bypass, Speed Pot and Red Illuminated Fault Push Button
- GFCI Outlet
- Control Power Transformer w/primary fusing
- Flow Signal Input: Pulse
- Lake Level Controls
 - HOA Selector Switch
 - PNR & Probes
- Fertigation Relay
- 1 Ea. Wye Strainer Flush Controls with Door Switch

- 5KVA Power Pack (Skid Mounted)
- Safeties:
 - Low level shutdown
 - Low discharge pressure shutdown
 - High discharge pressure shutdown w/auto restart
 - VSD fault with auto restart
 - Solid State Overload shutdown per motor
 - Phase Failure, Imbalance and low voltage protection
- Operation Features
 - Lamp Test Function
 - Automatic alternation of pumps based on least run time
 - Intelligent Slow Ramp feature for automatic line fill
 - VFD Bypass
- 10" Color Touch screen interface
 - 3 Year Flow Total Logging Day/Week/Month/Year
 - Pump Run Times
 - Event Log
 - Flow and Station Trending
 - Assignable I/O
- **MPC Remote Cell Monitoring w/1 Year Activation**
- **Remote pump station disable feature from any smart device or PC**
- **Factory support remote access to PLC/HMI and VFD for programming and troubleshooting**
- **nSite, MCI's Cloud Based Solution NO SUBSCRIPTION FEE**
 - Scheduled monthly email with flow report in Excel format
 - Access to one full year of pressure, flow, alarms and event data
- **nAlert**
 - Manage maintenance due dates for all aspects of maintenance on your pumping station.
 - Warning light, display message and email alert when due.
 - Monitor and report irregular operation of irrigation system, pump system and filter system.

Instrumentation

- SS Pipe Mounted Pressure Transducer with local indication LED display
- DI220B Flow sensor
- 4" Pipe Mounted Pressure Gauge/s w/316SS isolation ball valve

Pumps

- 3 Ea. 50 HP Vertical Turbine Pumps, **(84.30% Efficiency)**, 10' Pump Length (Unconfirmed), each rated for 500 GPM @ 303'TDH including station losses. To include;
 - Cast Iron Bowls w/316 Investment cast SS Impellers
 - 416SS Stainless Steel Shafting
 - Impeller collets
 - Water lubricated line shaft bearings with maximum 5 ft. spacing
 - **MCI custom leak less packing system designed to prevent water from leaking on the pump skid.**
 - MCI Fusion Bonded Epoxy coated internal/external Fabricated Steel Discharge Heads
 - Threaded Carbon Steel Column pipe, Standard wall thickness, 5' ft. sections.
 - Stainless Steel Pump Strainer
 - 50 HP, 1800 RPM, 460/3/60, premium efficient, Vertical Hollow Shaft Motors with motor space heaters and non-reverse ratchets.
- 1 Ea., PM, 5 HP Submersible SS Pump & Motor. With 2" Fusion Bonded Epoxy Coated pump head and 304SS discharge threaded column pipe.

Isolation Valves

- 8" Station Discharge isolation butterfly valve w/gear operator, 316SS disc and EPDM elastomers, fusion bonded body, rated for 250PSI.
- 2" and 6" Grooved Pump Isolation Valves with lever actuator.
- 2" and 6" Pump silent wafer check valves coated with fusion bonded epoxy and SS disc.
- 316SS threaded ball valves, 1.5" and below

Relief Valves Standard

- Fusion Bonded Epoxy Inside/Out w/ Bronze Trim
- ClaVal 50-01 4" station pressure relief valve with bronze trim, piped to wetwell with Discharge isolation butterfly valve w/lever operator, SS disc, EPDM elastomers, fusion bonded body and cover plate air release ball valve

Station Wye Strainer

- 8" cast iron wye strainer with SS screen and auto flush assembly, Fusion bonded body.

Skid

- Structural skid system
- Integral Wet Well Access Hatch(s)
- Steel Grit blasting to SSPC-10 of station structural steel.
- Poly Powder coated non-skid paint system

Piping

- Steel Grit blasting to SSPC-6 of station piping.
- NSF61 fusion bonded epoxy powder coating of all piping 2" and above internal and externally.
- Piping 2" and below to be 304SS
- Hose Bibb connection

Transition-Pipe

- 8" Flanged X 12" Flanged Discharge transition pipe with 90-degree elbows and swivel with 5 Ea. 3/4" thread-o-lets before elbow, 1 Ea. 3/4" thread-o-let after elbow above grade, and 1 Ea. 2" winterization fitting

Additional Warranty items

- Warranty Includes crane if needed
- 6-year warranty on Variable frequency drive (Includes lightning damage coverage and labor to replace)
- 6 Year Warranty on ALL COMPONENTS IN ELECTRICAL PANEL, Inclusive of power related damage such as lightning. Includes parts only.
- 2-year warranty on Station

FOB: Dallas, Texas

Lead Time: 28-31 weeks following approved drawings

MCI Flowtronex reserves the right to substitute alternate products for any named brand products based on availability.

Pricing:

MCI Flowtronex Pump Station:	\$224,096.59
Equipment/Material:	\$24,976.19
Installation Labor:	\$31,973.00
<u>Subtotal:</u>	<u>\$281,045.78</u>
Sales Tax:	\$16,912.75
<u>Project Total:</u>	<u>\$297,958.53</u>

*Applicable tax and freight included.
 Quoted pricing valid for 15 days
 Financing terms available upon request*

Pricing includes pump station installation and start-up, operator training and remote monitoring setup assistance, and one-year preventative maintenance service performed quarterly.

Customer is responsible for the removal and reinstallation of the pump house roof, if applicable, to provide access for station installation.

Customer to provide access to the pump station for trucks and equipment. ProPump and Controls is not responsible for damages to cart paths, underground utilities, irrigation heads/equipment or turf.

The quoted price assumes that any and all components, not included in the quote, are in proper working order. If any of these items are found to be weak or defective, the repair or replacement will be quoted in addition to the above cost

PAYMENT TERMS : All Purchase Orders are subject to acceptance by ProPump & Controls, Inc. Receipt of production deposit, verification of acceptable credit, and confirmation of order are required before production. All orders subject to 50% production deposit. Balance due 30 days from date of invoice.

If shipment or installation of equipment is delayed by customer request at no fault of ProPump & Controls, Inc., customer agrees to amend the contract or purchase order as follows, unless superseded by other terms noted on the accepted contract or agreement.

- **Delayed shipment:** Customer agrees to pay any storage fees requested by equipment manufacturer, if applicable.
- **Equipment Installation delayed at customer request following shipment:** ProPump will furnish equipment and labor to offload equipment and store on site as directed by customer. Equipment and labor costs for the offload shall be additional to the quoted price. ProPump shall invoice customer for 90% of the equipment price, less any previous production deposits, due net 30 days following delivery of product. Balance for equipment and installation labor will be invoiced on completion of work.

Orders placed under Preferred Customer Agreements include all discounts and fee payments.

Payment of Invoices over \$5,000 by Credit Card subject to 2.80% service charge without prior agreement.

How to order: Please help us expedite your order by providing the following:
Is this sale taxable? (Circle one) Yes No (If the order is non-taxable, a tax-exempt certificate for the "ship to" state must be submitted with this order.)

Provide signature: Accepted for Buyer _____
 Date: _____
 Requested delivery date: _____
 Ship to address: _____
 Street Address _____
 City _____ County _____ State _____
 Zip _____
 Contact Name: _____
 Phone & Fax: _____

Please return one signed copy of this quotation on acceptance. Merchandise delivered or shipped is due and payable to: ProPump & Controls, Inc. 610 Old Mt. Eden Road, Shelbyville, Ky. 40065. Fax number: 502-633-0733 Phone 800-844-0677.

DELIVERY: Delivery dates are estimates and confirmed shipment cannot be determined until all manufacturing details are known. ProPump & Controls Inc. will make reasonable efforts to establish a delivery schedule after receipt of an executed contract and all approvals. Seller shall not be liable for special or consequential damages caused by delay in delivery. Customer agrees to execute bill and hold contract in the event of order delay.

LATE FEES: Late fee of 1 1/2 % of the unpaid balance will be charged per month on all accounts which are past due, plus any collections or attorney's fees incurred in settlement of past due accounts.

LIEN: Seller retains a security interest in all products sold to buyer until the purchase price and other charges, if any, are paid in full as provided in Article 9 of the Uniform Commercial Code. Seller will file a Mechanics Lien or execute other documents as required to perfect the security interest in the products sold.

TAXES: State, city and local taxes are excluded from the contract price unless otherwise noted. Sales tax will be invoiced on the contract price unless written exemption is provided.

FACTORY AUTHORIZED WARRANTY: ProPump & Controls, Inc. warrants products manufactured by ProPump and associated component parts and/or labor, for defects in materials and workmanship for a period of one year following date of installation by ProPump, but not later than fifteen months from date of invoice if installed by others.

For products sold by ProPump & Controls, Inc but manufactured wholly by others, ProPump will extend the manufacturer's warranty to the customer, and will assist in handling warranty claims. Standard manufacturer warranties for water pumping systems are one year from date of startup by ProPump, but not later than fifteen months from date of manufacturer's invoice. Provided that all installation and operation responsibilities have been properly performed, manufacturer will provide a replacement part or component during the warranty life. Repairs done at manufacturer's expense must be pre-authorized.

This proposal may contain equipment which requires costly means to remove and replace for service or repair, due to site conditions. ProPump & Controls will not accept liability for any costs associated with the removal or replacement of equipment in difficult-to-access locations, unless specifically agreed to in writing on the original sales proposal. This includes the use of cranes larger than 15 tons, divers, barges, helicopters, or other unusual means. All such extraordinary costs shall be borne by the customer, regardless of the reason necessitating removal of the product from service.

ProPump & Controls, Inc., or its sub-contractors are not responsible for damage to turf or cart paths, provided that Owner's Representative has designated reasonable routes for access to the site, for vehicles including heavy trucks and cranes, and ProPump & Controls, Inc and subcontractor personnel have followed those routes. For access routes which require extraordinary means to traverse, such as wet ground or thin cart paths which may require placement of boards or steel plates to prevent damage, additional costs may be incurred if conditions are not brought to ProPump's attention prior to submitting a proposal.

Warranty may be voided in the event of any of the following:

- Default of any agreement with supplier or manufacturer.
- The misuse, abuse of the pumping equipment outside is intended and specified use.
- Failure to conduct routine maintenance.
- Handling any liquid other than irrigation water.
- Exposure to electrolysis, erosion, or abrasion.
- Presence of destructive gaseous or chemical solutions.
- Over voltage or unprotected low voltage.
- Unprotected electrical phase loss or phase reversal.
- TDS over 1000mg
- PH levels lower than 6.0
- Calcium hardness less than 50 mg/L
- Alkalinity less than 100mg/L
- Chloride and or sulfate ions greater than 50 mg/L each
- Free chlorine or use of other strong biocides.
- Langelier index from -50 to + 1.5
- Damage occurring when using control panel as service disconnect.

The foregoing constitutes ProPump & Control's sole warranty and has not nor does it make any additional warranty, whether express or implied, with respect to the pumping system or component. ProPump & Controls, Inc. makes no warranty, whether express or implied, with respect to fitness for a particular purpose or merchantability of the pumping system or component. ProPump & Controls, Inc. shall not be liable to purchaser or any other person for any liability, loss, or damage caused or alleged to be caused, directly or indirectly, by the pumping system. In no event shall ProPump & Controls, Inc. be responsible for incidental, consequential, or act of God damages, nor shall manufacturer's liability for damages to purchaser or any other person ever exceed the original factory purchase price.

