



BUYBOARD CONTRACT #529-17

VERTICAL TURBINE PROPOSAL (QUICK SHIP)

Variable Speed Virtual Vision III Pumping System

U. L. Approved Package Pumping System Suitable for Three Phase Power

All Watertronics control panels meet or exceed the Federal Communications Commission (FCC) Standard #15 for emitted and conducted noise

Customer:	The City of North Richland Hills -- Iron Horse GC	Date:	November 8, 2019
Attn:	Joe Pack	Quotation #:	02202019WS-IH-B
Phone #:		Project Name:	Iron Horse Station B
Fax #:		Location:	North Richland Hills, TX
Email:		Quoted By:	Bobby Anderson - PTP 817-875-5791
Specifier Name:		Sales Email:	andersonb@proturf.com

STATION PERFORMANCE: 1000 GPM @110 PSI

POWER REQUIREMENT: Power shall be 460V, 3 phase, 60 Hz

MODEL DESCRIPTION: VTVQ-1-50x2/3ST-460-3-1000-110

Project Scope: Variable speed, (VFD) vertical turbine pump station, piping, valves and base. All control panels painted white for superior corrosion resistance. Designed for **48"** diameter x **18'-0"** deep wet well. Station is proposed to be installed **INSIDE an existing** weather resistant building, as furnished by the owner. Controls will be an Industrial grade PLC with a color touch screen operator interface device and software programming written specifically for this project—with information given at time of design or order. A formed and reinforced steel base platform (**80" x 80" x 6-3/8"**) will support all manifold piping, pumps, motors, and control panels to provide an integral unit ready to quickly install at the job site.

Note!! This Proposal was formulated to meet the customer supplied design specification. Any differences in the specifications from the equipment outline within this proposal should be brought to the immediate attention of Watertronics for clarification.

STANDARD CONTROLS & EQUIPMENT INCLUDE:

- U.L. listed NEMA 4 master control panel assembly with **200** amp main disconnect and interior lighting package
- **Water-to-air heat exchanger** for control panel
- Microprocessor controls with AccuWare station software to maintain constant pressure at variable flow
- VirtualVision III Color Touchscreen operator interface device with active matrix LCD display featuring:
 - Digital flow (GPM) and pressure (PSI) display
 - Both cumulative and resettable gallons pumped indicators
 - Pump ready/running status with elapsed run time display per pump
 - Flow-based pressure regulation to match discharge pressure with irrigation demand

- Individual motor overload reporting
- Minute by minute data logging saved to a removable flash RAM card
- 32MB card to store approximately 12 months of data
- Historic & real time X-Y plotting of pump station operation
- Filter controls as required
- Alarm log file
- Ability to change system parameters such as setpoint pressure, time delays
- Fertigation graphic and control interface when sold with a Watertronics EZ Feed Injection Package
- Alarm conditions w/safety shut down, condition time stamp & automatic diagnostic system:
 - Automatic re-pressurization after fault condition
 - Low discharge pressure shutdown
 - High discharge pressure shutdown
 - Individual motor overload/phase loss
 - VFD fault shutdown
 - Low water level shutdown
- **50** HP variable frequency drive sequenced between main pumps, rated for the motor horsepower.
- Dual mechanical interlocking output contactors for auto-alternation of main pumps & manual override. X-line contactor is MSP breaker type motor protection w/electronic overload and rotary handle power disconnect.
- Transient/surge protection package for 480 volt and analog circuits
- **Two (2)** ea. **50** HP, 1800 RPM, Inverter duty PREMIUM efficient vertical hollow shaft (VHS) motors with winding space heaters and self-release couplings
- **Two (2)** ea. **50** HP, 1800 RPM, vertical turbine pumps with ductile iron discharge heads and mechanical seals
- Vertical turbine irrigation pumps shall have stainless steel shafting; water lubricated bearing, stainless steel basket strainer, cast iron bowls, stainless steel collets, and stainless steel impellers
- **One (1)** **3** HP, 3600 RPM, submersible sustain pump and stainless steel motor
- Individual pump isolation & check valve assemblies
- **3"** pressure relief valve with lug style butterfly isolation valve
- Hose bib connection for wash-down
- **6"** Growsmart Mag meter
- Stainless steel pressure transducer
- Station discharge isolation valve
- Two (2) **3/4"** TOL's on discharge manifolding
- Structurally superior, *formed* **3/8"** reinforced steel skid for mounting pumps, controls & piping
- Integral wet well access hatch if wet well diameter allows
- Steel grit blasting of pump station skid and all piping
- Station skid, valves and all piping painted **SANDSTONE**
- Two-part epoxy primer coat of all painted surfaces
- Polyurethane paint final coat of all painted surfaces, including the skid, piping and valves, for superior protection
- Baked & curing process of all primer coated and painted surfaces
- Complete assembly, calibration and dynamic run and vibration test prior to shipment
- **One (1)** operation and maintenance manual
- Access to Watertronics customer service technical phone support, technicians on call 24/7
- Access to Watertronics factory authorized service technician

ADDITIONAL EQUIPMENT & SERVICES INCLUDED WITH PUMP STATION:

- Programmable setpoint level transducer for water/pond fill controls with digital water level displayed in inches through VirtualVision touch screen interface and remote via Watervision
- 5kw Heater
- **Watervision CLOUD:** Web-based monitoring accessible from most web-enabled devices, including PCs, tablets and mobile devices. Compatible with popular browsers; Internet Explorer, Firefox, and Chrome. Monitor system pressure and flow, system set-points, pump status, and alarms. Remotely reset system alarms and Enable or Disable the pump station. Pre-configured reports and trending of stored data with 2 years of historical data available. Pump station data is sent to secure, online data servers that are accessible worldwide 24/7/365. Configure alarm event messages to be sent to multiple e-mail addresses and/or via SMS text messaging to mobile devices. Monitor multiple systems locally, regionally or worldwide from a single user login. View status of multiple systems properties via Google Map view. Multi-user capability with Manager, Viewer or e-mail/SMS only access.
Data connection to pump station via **cellular** connection **GSM** with **5** year subscription.
- 5 KW pump station heater mounted on swing arm off control panel

PUMP STATION PRICE (INCLUDES ALL ABOVE):	US Dollars Only	\$123,435.00
Off Load & Set-Up Supervision (one day):		Included
Start-Up (one day):		Included
Crane to Off-Load and Set Pump Station:		Included
Sales Tax:		Not Included
Domestic US Freight from Factory to Job Site: FOB Factory		INCLUDED
<u>OPTIONAL EQUIPMENT INCLUDED:</u>		
• Patented Electronic Butterfly Valve (EBV) system that provides the following features: 1) VFD back-up mode to automatically function on the fly during an event of a VFD failure, without loss of irrigation, 2) purge air from VT column, 3) reduces PSI overshoot, 4) eliminates water hammer and check valve slam, 5) provides superior slow fill or surge, 6) provides variable flow without causing line surge, 7) eliminates abrupt PSI drop, and 8) improves pump sequencing PSI regulation.		\$3,113.00
• 6" FL x 6" PE fabricated steel discharge drop pipe with swivel connection and 2" blow-out connection		\$1,288.00
• 6" auto-flush wye strainer with 1/8" perforated screen		\$1,479.00
TOTAL PUMP STATION PRICE WITH ALL INCLUDED OPTIONS		<u>\$129,315.00</u>

- **Delivery: 5 weeks after receipt of signed contract and drawing approval. A firm delivery date will be established and transmitted within 5 days of receipt of all final details and documents.**

TERMS AND CONDITIONS

DELIVERY AND SET-UP:

- All reasonable efforts will be made to meet the requested delivery date after the receipt of a signed contract however; PTP and Watertronics will not be liable for delays in delivery.
- Pump station components shipped separately from the station, at the Customer's request, may incur additional freight charges, payable by the Customer.
- Customer will be responsible for having job site readily accessible for station delivery via flatbed truck and provide crane for the removal and setting of the pump station.

- DOMESTIC (USA): Station Set-up charges include one day on site for supervision of the installation by the awarded contractor. If more than one day is required, additional charges of \$2,500.00 per day (PLUS ANY Additional Crane Charges) will be assessed if the customer caused the delay. Travel time not included if separate service call is required.
- INTERNATIONAL DESTINATIONS: It is the responsibility of the owner's representative (contractor) to offload the station, identify any freight damage, inventory equipment and place the skid in position on the concrete slab. Vertical Turbines may be set in place on the skid for final assembly by an authorized service agent at time of technical startup. Any delays when on site due to events out of our control may incur additional charges. Charges include technician's time (\$1,225/day), travel fees, airline penalties, hotel, and meals.
- FREIGHT DAMAGE must be written on shipping documents with copies going to the carrier and Watertronics. Watertronics will require pictures of damage caused by the carrier.
- MISSING EQUIPMENT from the Bill of Materials (BOM) must be identified within 2 weeks of delivery.
- Customer will be responsible for electrical permit if required. Electrical connection to the pump station and building is the customer responsibility (or the Contractor). Any additional electrical work required will be performed by the customer.
- Customer will be responsible for all piping connections.
- Customer will be responsible for building modifications (roof and/or wall removal & installation).
- Customer will be responsible for wet well, slab, and concrete work.
- Customer will be responsible for piping wye strainer / filter flush line back to supply lake

START-UP:

- Customer is responsible to guarantee the following before station calibration can be performed: a.) Permanent utility power is available and installed on pump station disconnect, b.) adequate water supply to operate station to full capacity, c.) installed irrigation system to be operate station to full capacity.
- DOMESTIC (USA): Start-up charges include one day on site. If more than one day is required, additional charges of \$1,225.00 per day will be assessed if the customer caused the delay.
- INTERNATIONAL DESTINATIONS: Final assembly and startup will be completed under the terms listed above. If the site is ready for startup i.e. power in place, site and infrastructure ready to run water the time allotted is adequate. Any delays due to events out of our control may incur additional charges. Charges include technician's time (\$950/day), travel fees, airline penalties, hotel, and meals.
- Purchaser will notify Watertronics two weeks in advance of the desired start-up date.

WARRANTY:

- ALL WATERTRONICS PUMPING SYSTEMS ARE WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (2) YEAR FROM THE DATE OF INSTALLATION, OR 30 MONTHS FROM DATE OF SHIPMENT.
- This warranty is limited to replacing or repairing any defective component at the sole option of Watertronics, Inc. and does not apply to equipment that has been damaged, misapplied or has been modified in any way.
- Regular scheduled maintenance is required to keep the pump station running in top condition. A minimum of two (2) scheduled preventative maintenance service calls must be performed during the warranty period for the warranty to remain in force. Scheduling and payment for maintenance shall be the responsibility of the owner. Any work performed on the pump station must be provided by **Professional Turf Products** -a Watertronics recognized PSN (Pump Service Network) service provider - and documentation of all work performed within the warranty period must be on file at the factory. Any maintenance or repairs done without the pre-authorization of Watertronics, Inc., or **Professional Turf Products** shall void this warranty.
- This warranty does not cover damages under the following conditions, unless otherwise specified in writing: (1) Lightning strikes, misapplied or inappropriate in-coming power, improper grounding, vandalism, or acts of God, (2) repairs or replacements made without the pre-authorization of Watertronics, Inc., or its recognized service providers, (3) exposure to destructive gaseous or chemical solutions, (4) exposure to water pH levels of less than 6.0 which is typically the result of SO2 burner or sulfuric acid injection, (5) water salinity levels greater than 2000 parts per million, (6) water from a reverse osmosis process plant, (7) unusually high dirt load or abrasives in the water, or (8) pumping water not suitable for turf irrigation.

- Watertronics will not accept liability for any costs associated with the removal or replacement of equipment in difficult to access locations. This includes, but is not limited to, the use of cranes larger than 15 tons, scuba divers, barges, helicopters, or other unusual means. These extraordinary costs shall be borne by the owner, regardless of the reason necessitating removal of the product from service.
- THIS WARRANTY IS ABSOLUTELY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES. THIS INCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION ON THE PART OF WATERTRONICS, INC.
- NO AGENT, EMPLOYEE OR REPRESENTATIVE OF WATERTRONICS, INC., HAS ANY AUTHORITY TO BIND WATERTRONICS, INC. TO AN AFFIRMATION, REPRESENTATION OR WARRANTY CONCERNING THE PRODUCT SOLD UNDER THIS WARRANTY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

POWER SUPPLY:

- **The pump station proposed herein is designed for 480V, WYE configured or closed delta balanced 3 phase power. The acceptable range of voltage is 455 volts (min) – 495 volts (max). Open delta, phase converter, or other forms of unbalanced three phase power are NOT acceptable.**
- If the supply voltage is not within this acceptable range, the purchaser is responsible for making the necessary corrections. This may include re-tapping or replacing the primary transformer. If the supply voltage is outside the stated range, electrical components such as VFD's, fuses, breakers, overloads, motors, power supplies may intermittently trip or prematurely fail and will not be considered for warranty coverage.
- The use of generator power is not recommended. If a generator is required as a temporary power supply, the pump station will be covered under Watertronics' limited warranty provided that their "Engine Driven Generator Power Warranty Policy and Operation Guidelines" document is strictly adhered to.
- Proper electrical grounding of the pump station is a requirement. Station will not operate properly and could pose a health hazard if not properly grounded. Failures of any magnitude due to improper grounding will not be covered under warranty.

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PAYMENT TERMS: U. S. Dollars Only.

1. All purchase orders are subject to acceptance at factory in Hartland, Wisconsin. Receipt of Production deposit, verification of acceptable credit and confirmation of order are required before production. **Orders over \$10,000 require a 50% production deposit** with the balance due upon completion of setting the pump station. For international orders, either an Irrevocable Letter of Credit (ILC) drawn on a U.S. Bank, with all costs of the ILC borne by the purchaser, is required for the full amount of purchase at time of order, or a 50% cash deposit with order and the remainder paid in cash when product is stated ready for shipment.
2. Late fee of 1.5% per month will be added to any balance due after thirty (30) days from the date of invoice. All payments and/or credits are applied to the outstanding balance before computing a finance charge.
3. In the event the customer cannot take delivery on the requested date, delivery shall be deemed completed, and the warranty period shall commence, at Watertronics' factory with storage for future shipment. For the purpose of payment, eighty (80) percent of the contract price will be due, payable net 30 days from invoice. The customer will be responsible for storage and handling charges at the factory. A minimum charge of \$200 per week will apply, with total storage charges added to the final invoice.

OTHER INFORMATION:

1. Prices valid for sixty (60) days from the date of this proposal.
2. State and local sales taxes are not included in these prices.
3. Seller retains a security interest in the above mentioned equipment as provided by the UNIFORM COMMERCIAL CODE, until payment is received in full.
4. All claims for incorrect deliveries must be submitted in writing to Watertronics Customer Service within 15 days after receipt of goods.
5. All claims for price discrepancy must be submitted in writing to Watertronics Customer Service within 60 days after receipt of goods.
6. A completed pump station may not be returned to Watertronics for credit.

CHANGE ORDERS:

1. Change Orders initiated by parties outside of Watertronics, after an order has been entered, may require additional charges to the purchaser regardless of the reason or initiating party. A minimum administrative fee of \$ 150.00 will be charged.

- a. Lost engineering and order administration time will be charged to the purchaser at \$150.00 per hour.
- b. Purchase orders to vendors perfected by Watertronics made invalid by the Change Order will incur charges against the purchaser equal to any penalties levied against Watertronics. To include, re-stocking charges, lost freight charges or return goods freight charges and any vendor administrative costs.
- c. Watertronics lost manufacturing time will be charged to the purchaser at \$100.00 per hour. Additional labor to satisfy the Change Order will be estimated at \$100.00 per hour and added to the total Change Order amount.
- d. Materials made unusable or scrapped because of the Change Order will be changed to the purchaser at actual sale value as originally assigned to the job. Replacement materials or goods will be valued as required by the Change Order and be shown in its total.

ACCEPTANCE TERMS:

1. Purchaser hereby agrees that in the event of default in the payment of any amount due, that if this account is placed in the hands of an attorney, or agency for collection or legal action, to pay any and all related attorney's fees, costs of collection including agency, private process servers fees, court costs, etc., incurred and any other costs of collection permitted by the laws governing these transactions. **Terms are subject to final credit approval.**
2. Equipment cancelled before completion will incur restocking charges that will be calculated at time of cancellation. Restocking fees may be the full cost of the pump station depending on the nature of the pump station that is cancelled.
3. Equipment shipped separately from the station, at Purchaser's request, may incur additional freight charges, payable by Purchaser.
4. Delayed deliveries by the customer once equipment is ready to ship, will incur minimum storage charges of \$200 per week, added to the final invoice.

ACCEPTED BY:

Company Name: _____ By: _____

Print Name: _____ Title: _____

Signature Date: _____ Requested Delivery Date: _____

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).

Please Return One Signed Copy of This Quotation On Acceptance. Merchandise delivered or shipped is due and payable to: Professional Turf Products, 1010 N. Industrial Blvd, Euless, TX 76039.
 Fax number: 817-785-1901 Phone 817-785-1900.

BILL TO INFORMATION:

Company Name: _____ Phone: _____ Fax: _____ Email Address _____

Billing Address: _____ City: _____ State: _____ Zip Code: _____

Contact Name (Print): _____ Title: _____

SHIP TO INFORMATION:

Company Name: _____ Phone: _____ Fax: _____

Shipping Address: _____ City: _____ State: _____ Zip Code: _____

Contact Name (Print): _____ Title: _____ Phone : _____

Thank you for the opportunity to quote on your pump station needs. If you have any questions or require further information, please call us at 817-785-1900.