



Watertronics LLC.
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CUSTOM PUMP SYSTEM QUOTATION

Project Name:	Heritage Golf Course	Date:	08/04/2022
Site Location:	Marquette,	Quotation:	HeritageGolfCourse_202208041836Q1
		Quoted By:	Eric Pifer
Customer Contact Name:	Gabe Lopez	Sales Rep:	Eric Pifer
Company Name:	Irrigation Protection Services	Phone:	262-224-3263
Address:		Email:	eric.pifer@watertronics.com
Phone:	2627491491		
Email:	gabe@ips911.com		
Performance:	1100GPM @ 120PSI	Lift:	10FT
Input Power:	460VAC/3Phase/60Hz	Panel SCCR:	35KA
Model Number:	HCLVE-1-50X2/10V/-460-3-1100-120	FCC Type:	B

CATEGORY	DESCRIPTION	QTY
Approvals and Certifications	• UL Listed - Industrial Control Panel	1
Approvals and Certifications	• FCC Part #15 Subpart B - Radio Frequency Devices	1
Paint Color	• Paint Color - Watertronics - Sandstone	1
Pump Motors -HC	• 50HP HC Prem Efficiency Motor - 460V/3Ph	2
Pumps - HC	• Pump Horizontal Centrifugal 50HP 3600RPM	2
Pumps - VMS	• Pump and Motor VMS 10HP-460V/3Ph	1
Pump Discharge Headers	• Discharge Header - 100 GPM Vac Rated	1
Pump Discharge Headers	• Discharge Header - 625 GPM Vac Rated	2
Discharge Manifolds	• Discharge Manifold - Triplex Pump	1
Pressure Relief Valves	• 3 Pressure Relief Valve	1
Regulation EBVs	• Electronic Butterfly Valve - 2-6	3
Flow Meters	• Data Industrial 220 Series Flowmeter Brass	1
Intake Manifolds	• Common Intake Header - HC Triplex	1
Pump Prime Systems	• Vacuum Prime System - 1/6HP Standard	1
Inlet Drop Pipes	• Drop Pipe Steel - 3 FL x 3 FL 36 Bury Depth	1
Inlet Drop Pipes	• Drop Pipe Steel - 10 FL x 10 FL 36 Bury Depth	1
Suction Line Floats	• Float Kit for 8 HDPE Pipe	1
Pump Station Bases	• Pump Station Base - Formed Steel	1
Pump Station Base Accessories	• Skid Shim Kit Stainless Steel	1
Disconnects	• Station Disconnect Switch - 200A Fused	1
VFDs	• Variable Frequency Drive 10HP380-480V/3ph	1
VFDs	• Variable Frequency Drive 50HP380-480V/3ph	1
XL Contactors	• VFD (XL) Contactor - 460-575V/3Ph - 10HP	1
XL Contactors	• VFD (XL) Contactor - 460-575V/3Ph - 50HP	2
Control System	• Type 1 - Sigma PLC Logic Controller	1
Control System	• Power - Phase Monitor Protection	1
Touchscreen Displays	• VirtualVision III - 7.0 Color LCD Touchscreen	1
Control Switches	• Lighted HOA Switch	3
Surge Protection	• Premium Surge/Lightning Protection	1
Optical Devices	• Flow Signal Opto Coupler - For Sharing Signal	1
Remote Start Options	• Remote Disable Relay - 24VAC/DC	1
Communication and RTUs	• WaterVision Cloud - Verizon 4G - w/5YR Subscription	1
Fertigation Accessories	• Fertigation Run Relay	1
Fertigation Accessories	• Chemical Treatment Relay	1
Electrical Enclosure	• Electrical Enclosure - 75x60x16 STL/WHT	1
Electrical Enclosure Accessories	• Inspection Window Kit - 5 x 3 WHT	1
Electrical Enclosure Cooling	• Indoor Air Conditioner - Standard (4-5K Btu)	1
Unregulated Power Supplies	• 5KVA Transformer & Load Center 480P-240/120VAC	1
Composite Station Enclosures	• Composite Station Enclosure - 216 x 96 Inches.	1
Composite Enclosure Disconnects	• External Station Disconnect - 200A FUSED NEMA 3R	1
Documentation	• Operation & Maint Manual (English) - Electronic Copy	3

STANDARD EQUIPMENT FEATURES: (Included In Total Station Price)		
OPTION NO	DESCRIPTION	QTY
001-0000006	Horizontal Centrifugal - Station Spec	1
	<ul style="list-style-type: none"> A variable speed Horizontal Centrifugal pump station shall be provided. The pump station shall include variable frequency drive speed control horizontal centrifugal pumps piping valves electrical panel base and all other features (where applicable as specified below). Station shall be designed to be installed either outside or inside a weather resistant building furnished by the owner as specified above. A formed and reinforced base platform will support all manifolding pumps motors and control panels to provide an integral unit ready to quickly install at the job site. Configuration of station inlet discharge power connections and layout/orientation of basic system components shall be indicated on the sales drawing. The station shall be completely assembled (where applicable) calibrated and subjected to a dynamic run test including safety check prior to breakdown and shipment to customer. 	
005-0000002	UL Listed - Industrial Control Panel	1
	<ul style="list-style-type: none"> The station ELECTRICAL CONTROL PANEL shall be UL listed and meet or exceed UL508A specifications for safety of industrial control panels. Panel shall be assembled and tested in a UL508A certified panel shop. 	
005-0000006	FCC Part #15 Subpart B - Radio Frequency Devices	1
	<ul style="list-style-type: none"> The station electrical control panel shall meet or exceed Federal Communications Commission (FCC) Part #15 Subpart B performance requirements for conducted and radiated emissions. 	
010-0000002	Paint Color - Watertronics - Sandstone	1
	<ul style="list-style-type: none"> Pump station plumbing components shall be painted Watertronics SANDSTONE for maximum durability and resistance to corrosion. The paint system shall consist of a multi-step system including media blasting application of a rust prohibitive epoxy prime coat followed by a two part industrial grade ultraviolet resistant polyurethane finish having a total dry film thickness of not less than 5 mils. Each coat will be applied and baked for one half hour at 165 degrees F. Pump station components including base pipework discharge heads manifolds isolation and relief valves grooved clamps and supports shall be painted unless otherwise specified on sales drawing. 	
102-0000008	50HP HC Prem Efficiency Motor - 460V/3Ph	2
	<ul style="list-style-type: none"> A 50HP premium efficient (HC) horizontal centrifugal motor shall be provided. The motor shall be (ODP) open drip proof construction inverter ready rated with class F windings. The motor shall be sized properly for continuous operation of the pump at any point along the designed pump performance curve without exceeding the motors specified horsepower rating. 	
122-0000008	Pump Horizontal Centrifugal 50HP 3600RPM	2
	<ul style="list-style-type: none"> A 50HP single stage close coupled Horizontal Centrifugal pump shall be provided. The pump assembly shall be bolted directly to the motor face and be constructed of heavy duty cast iron with a single dynamically balanced bronze impeller. A mechanical carbon/ceramic motor shaft seal shall be provided for long life and maintenance free operation. A temperature sensor shall also be provided in the pump volute case to facilitate safety shut down of the pump under high temp conditions. The pump shall be selected specifically for the application by Watertronics to maximize performance and efficiency. 	
123-0000004	Pump and Motor VMS 10HP-460V/3Ph	1
	<ul style="list-style-type: none"> A 10HP (VMS) Vertical Multi-Stage pump and motor assembly shall be provided. The motor shall be (TEFC) totally enclosed fan cooled construction and shall meet or exceed NEMA standards for high durability. The pump shall be constructed of stainless steel with multi stage dynamically balanced stainless impellers and mechanical carbon/ceramic motor shaft seal for long life and maintenance free operation. A temperature sensor shall also be provided to facilitate safety shut down of the pump under high temp conditions. The pump assembly shall be selected specifically for the application by Watertronics to maximize performance and efficiency. 	

145-0000007	Discharge Header - 100 GPM Vac Rated	1
	<ul style="list-style-type: none"> A pressure maintenance pump discharge header assembly shall be provided for a maximum flow of 100GPM. The header assembly shall include a VACUUM rated check valve butterfly valve and related pipework required to connect pump to discharge manifold or spool. The pipework shall be fabricated from A53 Grade B schedule 40 CARBON STEEL and painted per job specifications. 	
145-0000010	Discharge Header - 625 GPM Vac Rated	2
	<ul style="list-style-type: none"> A pump discharge header assembly shall be provided for a maximum flow of 625GPM. The header assembly shall include a VACUUM rated check valve butterfly valve and related pipework required to connect pump to discharge manifold or spool. The pipework shall be fabricated from A53 Grade B schedule 40 CARBON STEEL and painted per job specifications. 	
200-0000003	Discharge Manifold - Triplex Pump	1
	<ul style="list-style-type: none"> A custom fabricated TRIPLEX PUMP discharge manifold shall be provided. The manifold shall be designed and fabricated by Watertronics to maximize flow and efficiency and to meet specific customer installation requirements. All fabricated piping shall conform to ASTM specifications A53 for Grade B welded or seamless pipe. Discharge piping 12" and larger shall be a minimum "Standard Wall" thickness. Discharge piping 10" and smaller shall be Schedule 40. All welded flanges shall be forged steel slip-on or weld neck type. All welded fittings shall be seamless conforming to ASTM Specification A234 with pressure rating not less than 150 psi. The manifold assembly shall include a main discharge isolation valve discharge pressure gauge three 3/4" fertigation ports and a winterization drain port with 3/4" ball valve. 	
210-0000001	3 Pressure Relief Valve	1
	<ul style="list-style-type: none"> A 3" pressure relief valve shall be installed on the discharge piping downstream of the pressure regulating valves. The valve shall be sized to bypass sufficient water back to the water source to avoid the discharge pressure from exceeding the maximum programmed pressure set point by more than 10 PSI. 	
270-0000001	Electronic Butterfly Valve - 2-6	3
	<ul style="list-style-type: none"> A patented Watertronics 2-6" EBV "Electronic Butterfly Valve" shall be provided on the pump discharge head. The EBV shall provide for gradual entry of water from the pump into the discharge manifold to allow for complete purging of pump column air and elimination of water hammer surges and check valve slam. The EBV shall also facilitate smooth pump sequencing enhanced flow and pressure regulation. In the event of a VFD failure the EBV shall function as a by-pass regulation device to maintain constant pressure regulation and flow without disruption of the irrigation process. 	
280-0000001	Data Industrial 220 Series Flowmeter Brass	1
	<ul style="list-style-type: none"> A high quality impeller style flow meter shall be provided to measure water flow with an accuracy of +/- 1%. full scale The flow meter housing shall be made of BRASS. The sensor electronics shall be fully sealed in epoxy potting suitable for indoor or outdoor installation. 	
300-0000003	Common Intake Header - HC Triplex	1
	<ul style="list-style-type: none"> A custom fabricated TRIPLEX PUMP common intake manifold shall be provided. The manifold shall be designed and fabricated by Watertronics to maximize flow and efficiency and to meet specific customer installation requirements. All fabricated piping shall conform to ASTM specifications A53 for Grade B welded or seamless pipe. Discharge piping 12" and larger shall be a minimum "Standard Wall" thickness. Discharge piping 10" and smaller shall be Schedule 40. All welded flanges shall be forged steel slip-on or weld neck type. All welded fittings shall be seamless conforming to ASTM Specification A234 with pressure rating not less than 150 psi. The manifold assembly shall include a intake isolation valve where applicable intake pressure gauge and a winterization drain port with 3/4" ball valve. 	
330-0000002	Vacuum Prime System - 1/6HP Standard	1

	<ul style="list-style-type: none"> An industrial grade hands free fully AUTOMATIC vacuum prime system shall be provided for pump priming up to 10' of lift. The system shall include a 1/6HP piston prime pump site glass to see water level in real time level probe assembly for instant re-prime when water level falls below accepted level air release with inline check valves to maintain a strong vacuum and prevent water intrusion into the pump. A "Hand-Off-Auto" switch shall also be provided to allow system to be run manually in automatic mode or disabled. While in Auto mode the vacuum prime system shall be completely automatic shut off when prime is achieved and maintain system prime at all times. System operation and status shall be fully integrated with system PLC and touchscreen display where provided. 	
360-0000001	Drop Pipe Steel - 3 FL x 3 FL 36 Bury Depth	1
	<ul style="list-style-type: none"> A steel 3" Flange X 3" Flange - 36" bury depth INLET drop pipe shall be provided. The drop pipe shall be custom fabricated for the application and shall be painted the station pipework color unless otherwise specified on the sales drawing. All fabricated piping shall conform to ASTM specifications A53 for Grade B welded or seamless pipe. Discharge piping 8" and above shall be a minimum of Schedule 10. Discharge piping 6" and smaller shall be Schedule 40. All welded flanges shall be forged steel slip-on or weld neck type. All welded fittings shall be seamless conforming to ASTM Specification A234 with pressure rating not less than 150 psi. A grove lock swivel shall be provided in drop section and a 1" priming port shall be provided in upper leg of drop pipe. 	
360-0000009	Drop Pipe Steel - 10 FL x 10 FL 36 Bury Depth	1
	<ul style="list-style-type: none"> A steel 10" Flange X 10" Flange - 36" bury depth INLET drop pipe shall be provided. The drop pipe shall be custom fabricated for the application and shall be painted the station pipework color unless otherwise specified on the sales drawing. All fabricated piping shall conform to ASTM specifications A53 for Grade B welded or seamless pipe. Discharge piping 8" and above shall be a minimum of Schedule 10. Discharge piping 6" and smaller shall be Schedule 40. All welded flanges shall be forged steel slip-on or weld neck type. All welded fittings shall be seamless conforming to ASTM Specification A234 with pressure rating not less than 150 psi. A grove lock swivel shall be provided in drop section and a 1" priming port shall be provided in upper leg of drop pipe. 	
372-0000004	Float Kit for 8 HDPE Pipe	1
	<ul style="list-style-type: none"> A float kit shall be provided for connection to a 8 INCH diameter HDPE pipe. The float shall be fabricated of black SDR17 ASTM D3350-PE4710 High Density Polyethylene Pipe for high durability and long life. The kit shall include all required stainless steel brackets and hardware required for attachment to the pipe. Approximate size 10" x 60" long. 	
400-0000001	Pump Station Base - Formed Steel	1
	<ul style="list-style-type: none"> Pump station components shall be mounted on a formed steel base. Formed steel construction is used to minimize weld seams and maximize strength. The base material shall be 3/8" thick ASTM A-26 hot rolled carbon steel plate. Structural steel shall be welded on the underside of the base to maximize structural rigidity. Base shall have a minimum of (eight) 3" lifting points (two at each corner). Base shall include a hinged wet well hatch whenever possible. Base shall be supplied with four anchor brackets and concrete wedge anchor bolts if base length is under 12ft. For base lengths over 12ft six anchors shall be provided. The base size shall be approximately 	
410-0000001	Skid Shim Kit Stainless Steel	1
	<ul style="list-style-type: none"> A skid shim kit shall be provided to take up small gaps between skid and floor and to insure level installation of skid. Each kit shall include the following stainless steel shims; Qty (2) - 1/2"x2"x5" Qty(2) - 3/8"x2"x5" Qty(4) - 1/4"x2"x5" Qty(4) - 1/8"x2"x5" . 	
500-0000011	Station Disconnect Switch - 200A Fused	1
	<ul style="list-style-type: none"> A 3-pole 200 amp maximum FUSED UL Listed main disconnect switch shall be provided. The disconnect switch shall include an operating handle mounted in the main electrical panel door that shall open all ungrounded conductors of the service entrance to the panel. The disconnect switch shall be mechanically interlocked to prevent access while the operating handle is in the ON position. The station disconnect switch shall be correctly sized for the maximum station load and shall meet all applicable NEC and UL508A requirements. 	
520-0000021	Variable Frequency Drive 10HP380-480V/3ph	1

	<ul style="list-style-type: none"> A high efficiency industrial grade 10HP variable frequency drive shall be provided. The VFD shall be specifically designed for water pumping applications and include a graphical control interface keypad. All internal printed circuit boards shall be conformal coated for long service life. 	
520-0000027	Variable Frequency Drive 50HP380-480V/3ph	1
	<ul style="list-style-type: none"> A high efficiency industrial grade 50HP variable frequency drive shall be provided. The VFD shall be specifically designed for water pumping applications and include a graphical control interface keypad. All internal printed circuit boards shall be conformal coated for long service life. 	
540-0000031	VFD (XL) Contactor - 460-575V/3Ph - 10HP	1
	<ul style="list-style-type: none"> A 460-575V/3Ph - 10HP cross line (XL) industrial grade dual interlocking contactor set shall be provided for the pump. The contactor set shall allow the assigned pump to be run manually across the line or from the VFD output. It will also facilitate sequencing of pumps when more than one main pump is present. An HOA (Hand-Off-Auto) switch will be provided for each pump. When HOA is in Hand position the contactor set will engage to power pump directly across the line. If Off position pump will be disabled and when in Auto pump will run on VFD when assigned as lead pump otherwise the contactor set will sequence the pump on as a lag pump where applicable. 	
540-0000037	VFD (XL) Contactor - 460-575V/3Ph - 50HP	2
	<ul style="list-style-type: none"> A 460-575V/3Ph - 50HP cross line (XL) industrial grade dual interlocking contactor set shall be provided for the pump. The contactor set shall allow the assigned pump to be run manually across the line or from the VFD output. It will also facilitate sequencing of pumps when more than one main pump is present. An HOA (Hand-Off-Auto) switch will be provided for each pump. When HOA is in Hand position the contactor set will engage to power pump directly across the line. If Off position pump will be disabled and when in Auto pump will run on VFD when assigned as lead pump otherwise the contactor set will sequence the pump on as a lag pump where applicable. 	
600-0000002	Type 1 - Sigma PLC Logic Controller	1
	<ul style="list-style-type: none"> The electrical control system shall be an Industrial grade PLC with a color touch screen operator interface device and custom programming written specifically for this project. Control logic shall be based on redundant design and interlocking of control devices for maximum safety and proper sequence of operation. In addition to diagnostic functionality available through the touchscreen display the PLC controller shall also have diagnostic LEDs for monitoring status of discrete inputs and outputs. The PLC shall contain RS232 and RS485 communication ports for monitoring and programming purposes and shall contain an EEPROM battery backed RAM and non-volatile memory for storage of critical configuration data. The PLC will have a high speed counter clock and calendar function with year month day hour minute and day of week. 	
600-0000003	Power - Phase Monitor Protection	1
	<ul style="list-style-type: none"> An advanced microprocessor based Power Phase Monitoring system shall be provided to protect the pump system from equipment failure due to power faults occurring on the incoming electrical service to the pump station. The monitor shall actively monitor for phase loss phase reversal phase unbalance under voltage and overvoltage conditions. In the event that these one or more of these conditions occur the Phase Monitor shall signal the PLC logic controller to shut down the pump system preventing damage to pump system components. The phase monitor fault limits and time to trip shall be adjustable. A status LED shall indicate the fault type causing the shutdown event. 	
610-0000003	VirtualVision III - 7.0 Color LCD Touchscreen	1

	<ul style="list-style-type: none"> An industrial grade 7.0" WVGA (800x480) Wide Color TFT LCD touchscreen user interface display shall be provided 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 and real time X-Y plotting of pump station operation Filter controls 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. Life of the display shall be 50000 hours. The display software shall be configured for the pump station features. 	
620-0000001	Lighted HOA Switch	3
	<ul style="list-style-type: none"> A lighted switch actuator shall be provided which shall be illuminated GREEN whenever the controlled item is active. One required per switch. 	
630-0000002	Premium Surge/Lightning Protection	1
	<ul style="list-style-type: none"> A Premium 200kA max impulse current rated surge protective device shall be provided on the incoming power connections to the station. The SPD shall utilize high energy solid state suppression circuitry to effectively protect electrical equipment from extreme electrical disturbances. An additional 70kA max impulse current rated surge protective device shall be installed on the secondary of the control transformer. Diagnostic LEDs shall be provided on the devices to indicate operational status when powered. 	
640-0000001	Flow Signal Opto Coupler - For Sharing Signal	1
	<ul style="list-style-type: none"> An optical coupling device shall be provided for sharing of pump station flow signal with external customer control systems. The opto-coupler is rated for 3-30VDC (24VDC) nominal supply from customer control system and shall provide a minimum of 2500V isolation between station control system and external systems. 	
650-0000003	Remote Disable Relay - 24VAC/DC	1
	<ul style="list-style-type: none"> A 24VAC/DC remote disable relay input shall be provided. The remote disable relay shall effectively disable the pump station when the remote start relay coil is supplied 24VAC/DC power from an irrigation controller or other external power source provided by customer. If the station is running and relay is powered the station will safely shutdown. When power is removed from the relay the station will return to normal operation. 	
680-0000008	WaterVision Cloud - Verizon 4G - w/5YR Subscription	1
	<ul style="list-style-type: none"> WaterVision Cloud - Verizon network 4G/LTE CELLULAR remote pump system monitoring package shall be provided. The system includes all hardware software and 5 YEAR SUBSCRIPTION for connection of a single pump station to the WaterVision Cloud Network via a cellular connection. The system shall allow customer to remotely monitor the pump station and the customer's other WaterVision Cloud enabled pump stations on the same property or multiple properties at any time from a cell phone tablet PC or other web based device. The system shall also allow control of the pump station enable/disable and reset of alarms. The communication hardware will accept up to eight additional CHOICE CARD inputs The WaterVision Cloud system is also expandable through connection of additional WaterVision Cloud enabled pump systems. Additional hardware required for system expansion. Subscription may be renewed in future years for low annual fee approximatley \$450/year. Contact PSN for future subscription pricing. 	
720-0000001	Fertigation Run Relay	1
	<ul style="list-style-type: none"> A Fertigation Run relay shall be provided to activate a customer provided chemical injection system. The relay output shall turn on when the station reaches a minimum flow set point and turn off when station flow drops below set point. The minimum flow set point shall be adjustable through the touchscreen display where provided. 	
720-0000003	Chemical Treatment Relay	1
	<ul style="list-style-type: none"> A Chemical Treatment relay shall be provided to activate a customer provided chemical injection system. The relay output shall turn on anytime a main pump is running. The chemical treatment relay shall have 2 DPDT 8A contacts. 	

750-0000004	Electrical Enclosure - 75x60x16 STL/WHT	1
	<ul style="list-style-type: none"> A heavy duty industrial grade 75Hx60Wx16D UL Listed NEMA 4 outdoor rated enclosure shall be provided to protect electrical control system components. The enclosure shall be custom built to Watertronics specifications specifically for water pumping applications and shall be fabricated of no less than 12GA carbon steel finished on all inside and outside surfaces in polyester based WHITE powder coat finish for maximum durability. The enclosure shall be provided with heavy duty integral hinges with lift off doors INTERIOR LIGHTING PACKAGE heavy duty key lockable door handles continuously welded seams mechanical interlocks and drip shield. The electrical component back panel shall be galvanized steel for superior EMC performance. 	
760-0000003	Inspection Window Kit - 5 x 3 WHT	1
	<ul style="list-style-type: none"> A NEMA 4 outdoor rated 5"H x 3"W inspection window kit shall be provided in the electrical enclosure door for viewing electrical component status. The window frame shall be steel painted white with clear polycarbonate window. 	
770-0000004	Indoor Air Conditioner - Standard (4-5K Btu)	1
	<ul style="list-style-type: none"> A premium quality closed loop AIR CONDITIONER cooling system shall be provided. The air conditioner shall control temperature levels within the electrical enclosure protecting sensitive electronic components from overheating conditions. The air conditioner shall be rated NEMA 12 for INDOOR installations and prevent outside air from entering electrical enclosure. The air conditioner shall be properly sized to the application up to one 40HP VFD requiring a maximum of 4-5K Btu cooling capacity. 	
810-0000002	5KVA Transformer & Load Center 480P-240/120VAC	1
	<ul style="list-style-type: none"> A 5KVA power supply shall be provided for auxiliary customer loads. The power supply shall consist of a minimum 8 place NEMA 3R load center resin filled power transformer fused disconnect and convenience outlet mounted on a heavy duty steel stand or station enclosure where applicable. The power supply shall produce a minimum of 40A/20A @120/240VAC with 460-480VAC input voltage. 	
900-0000001	Composite Station Enclosure - 216 x 96 Inches.	1
	<ul style="list-style-type: none"> The pump station enclosure shall be totally enclosed by a modular enclosure constructed of non-corrosive composite materials. The enclosure shall enclose the entire pump station base be flush with the pump station pad and provide access doors to the pump station control panel and pump equipment as indicated on the sales drawing. The enclosure roof shall be bolted to the main enclosure structure and be removable via lifting points if necessary for overhead service of the pump system. Internal lighting and a thermostatically controlled ventilation fan by shall be provided. The exterior of the enclosure shall be painted GREEN or SANDSTONE with a multistep ultraviolet resistant Aliphatic Polyurea finish. Power supply and external disconnect/pull box are required and must be ordered separately. 	
910-0000003	External Station Disconnect - 200A FUSED NEMA 3R	1
	<ul style="list-style-type: none"> A FUSED 200 AMP service entrance rated UL98 Listed Heavy Duty Safety Disconnect shall be provided on the outside of the station enclosure for connection of the customer electrical service wiring to the station. The disconnect shall be rated NEMA 3R for outdoor installation. 	
975-0000001	Operation & Maint Manual (English) - Electronic Copy	3
	<ul style="list-style-type: none"> A detailed OPERATION and MAINTENANCE manual shall be provided detailing basic system operation alarms general maintenance procedures and use of the operator interface. The manual shall be in English and provided in electronic format. 	

PUMP STATION PRICE (INCLUDES ALL STANDARD EQUIPMENT FEATURES) U.S. Dollars Only	\$197,366.00
Domestic US Freight from Factory to Job Site: FOB Factory	INCLUDED
Off Load & Setup Supervision:	NOT INCLUDED
Crane To Off-Load and Set Pump Station:	NOT INCLUDED
Start-Up:	NOT INCLUDED
Inspection Fees:	NOT INCLUDED
Warranty - (Including Parts and Labor)	2 YR STANDARD
Taxes:	NOT INCLUDED
Shipment: Estimated 28-30 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 CONDITION

DELIVER AND SETUP

- 1 1. All reasonable efforts will be made to meet the requested delivery date after the receipt of a signed contract however; Watertronics will not be liable for delays in delivery.
- 2 Pump station components shipped separately from the station, at the Customer's request, may incur additional freight charges, payable by the Customer.
- 3 Customer will be responsible for having job site readily accessible for station delivery via flatbed truck.
- 4 Customer will provide the equipment and personnel required to unload and/or set the pump station.
- 5 DOMESTIC (USA): Station Set-up charges include one day on site. If more than one day is required, additional charges of \$950.00 per day 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 (\$950/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.
- 6 Customer will be responsible for electrical permit if required.
- 7 Customer will be responsible for primary electrical hookup to pump station.
- 8 Customer will be responsible for making all piping connections.
- 9 Customer will be responsible for building modifications (roof removal & installation) if required.
- 10 Customer will be responsible for wet well, slab, and concrete work.
- 11 Customer will be responsible for piping wye strainer / filter flush line back to supply lake.
- 12 All reasonable efforts will be made to meet the requested delivery date after the receipt of a signed contract however; Watertronics will not be liable for delays in delivery.
- 13 Pump station components shipped separately from the station, at the Customer's request, may incur additional freight charges, payable by the Customer.
- 14 ASDF

START-UP

- 1 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 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 \$950.00 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.
- 2 Purchaser will notify Watertronics two weeks in advance of the desired start-up date.

POWER SUPPLY

- 1 **The pump station proposed herein is designed for 480 volt, WYE configured or closed delta balanced 3 phase power. The acceptable range of voltage is 455 volts (min) – 495 volts (max). Unless specifically stated under Optional Equipment, open delta, phase converter, or other forms of unbalanced three phase power are not acceptable.**
- 2 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.

- 3 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.
- 4 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.

WARRANTY

- 1 Watertronics warrants its pump station products to be free of defects in materials and workmanship for a period of two (2) years from the date of startup, but not later than 27 (27) months from the date of invoice, unless modified by customer with the selection of the extended warranty option. Stations deemed delivery complete and invoiced accordingly, at Watertronics' factory and stored there, shall have the warranty period commence as of the invoice date. Should the system require storage before startup after leaving the Watertronics' facility, the system must be stored in a secured, climate controlled environment that will not allow for degradation of the system due to moisture, extreme temperature variations, or human negligence.
- 2 This warranty is limited to replacing or repairing any defective component supplied by Watertronics at Watertronics' sole discretion and does not apply to equipment that has been damaged, misapplied or has been modified in any way.
- 3 Any work performed on the pump station must be provided by 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, or its recognized service providers shall void this warranty.
- 4 This warranty does not cover damages under the following conditions, unless otherwise specified in writing: (1) Misapplied or inappropriate incoming power, improper grounding, vandalism, or any incidental damage, consequential damage, or act of God, (2) repairs or replacements made without the pre-authorization of Watertronics, 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.
- 5 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.
- 6 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. NO AGENT, EMPLOYEE OR REPRESENTATIVE OF WATERTRONICS HAS ANY AUTHORITY TO BIND WATERTRONICS 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.

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. On domestic orders of \$100,000 or less, a 25% production deposit is required to initiate the order with the balance due net 30 days from date of final invoice. Orders over \$100,000 require a 50% production deposit.
- 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 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 charged 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

- 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 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.
- 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 Terms are subject to final credit approval.
- 4 Equipment shipped separately from the station, at Purchaser's request, may incur additional freight charges, payable by Purchaser.
- 5 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.

EQUIPMENT PER QUOTATION:

HeritageGolfCourse_202208041836
Q1

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 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: Watertronics LLC, 525 Industrial Drive, P.O. Box 530, Hartland, WI 53029-0530.
Phone 262-367-5000.

BILL TO INFORMATION

Company Name: _____ Phone _____ Email Address: _____

Billing
Address _____ City _____ State _____ ZipCode _____

Contact Name
(Print): _____ Title: _____

SHIP TO INFORMATION

Company Name: _____ Phone _____ Email Address: _____

Billing
Address _____ City _____ State _____ ZipCode _____

Contact Name
(Print): _____ Title: _____

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 262-367-5000.