



3303 Cypresswood Dr. Spring, Texas 77388
Phone: 713-783-8530 Fax: 713-783-1221

Quote Number: MK19047R1

Project Name: Battlegrounds Golf
Course Irrigation System

Date: 06/07/19

To: Charlie Sandberg

Project Location: Deer Park, Tx
Project Engineer: Adam Ballesteros P.E.
Deer Park Engineering
Department

STATION TYPE

Station Type..... M Base No-Enclosure

PUMP · MOTOR · BASE

Pump Model #1..... VS4A60-B
Quantity 2
Condition Point 750 GPM @ 243' TDH
High Pump Temp Sensor..... Included, 1 Per Pump
Motor Information
Horsepower 100
Voltage 3/60/460
Enclosure TEFC - Premium Efficient (Toshiba)

PIPING & VALVES

Suction Piping

Size 4" Pump Flange

Discharge Check Valve

Size 4"

Type Standard Swing Check

Air Release Valve [318] GRP33-07B

Terms are net 30, upon approved credit. No taxes are included. Prices firm for 30 days only. Note: Retainers are not considered as part of the terms of the quotation. PPS will furnish Insurance Certificate upon request. The above quotation is subject to PPS's standard conditions of sale and any parties acceptance to purchase items & cost noted hereby signify that they have read and understand those conditions and agree to them. These said terms & conditions shall have absolute overriding authority of any agreement between PPS & other parties, unless specifically noted otherwise by PPS in writing. No verbal or handwritten changes to this proposal shall be acceptable, unless revised written proposal provided. This quote is not a Bill of Sale.

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ARV Isolation Valves [3140]	Included
Discharge Isolation Valve(s)	
Valve Size.....	4"
Valve Type	3-Way Plug
Valve Operator	Manual Lever
Customer Connection	6"
Suction & Discharge Gauge Kit [3080].....	0'-460', Qty 1 for each pump
Pump Drain Kit [3060]	Drain Kit w/10' Hose
Additional Items:	

CONTROL PANEL

Voltage Available at Site.....	3/60/460
UL / CSA Listing	No UL/CSA Listing
Control Voltage Transformer [4120]	500 VA
Control panel transformer mounting.....	Inside the control panel
Control Panel SCCR Rating.....	10 kA rms sym
Duplex Receptacle(s) In Control Panel [4560].....	Qty 1
Primary Motor Starter	VFD
VFD speed reference via	Ethernet
Motor starter manufacturer	Allen-Bradley
Control Panel Enclosure	
Dimensions	Enter"H x Enter"W x Enter"D
NEMA Rating	NEMA 3R
Material.....	Painted Steel
Mounting.....	Default mounting for station
Installation Environment.....	Installed in a Gorman-Rupp fiberglass enclosure
Elapsed Time Meters	Display ETM of each Pump on controller OIT
Control Panel Heater [4540].....	Included
TVSS-Transient Voltage Surge Suppressor [4580]	Included
High Pump Temp Shutdown Protection.....	Included
Diameter of selector switches.....	22.5 mm (Standard)
Diameter of indicating lights	22.5 mm (Standard)
LED Alarm Light [4340]	Mounted to station enclosure, LED
Alarm Horn	Mounted to station

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LEVEL CONTROL

Primary Level Controller [4140] PLC
 Primary PLC Model A-B CompactLogix L2
 Primary Operator Interface A-B PanelView Plus 7 700 (7" Color Screen)
Primary Level Sensor [4160] Other
Primary Level Sensor [4160] Pressure Transducer

Primary Sequence of Operation:

The system pressure is measured by a pressure transducer, which provides a signal to the PLC proportional to pressure. The desired pressure is set by the operator on the operator interface and is adjustable. The PLC system uses a PID algorithm to modulate the pumps speed and maintain system pressure at the set-point. When the system pressure lowers the on setpoint a single pump will start. After the system pressure has reached the lead pump off pressure the pump will stop. This constitutes a pump cycle. Control logic shall alternate operation between the two duty pumps in a lead / lag / alternate arrangement. A single pump is capable of handling full flow but in the event a single duty pump cannot handle the flow, the lag pump should be called to run.

PLC INFORMATION

External Source Wired to Terminal Blocks	External Source Output Name
	Pump Fail #1
	Pump Fail #2
	Pump Run #1
	Pump Run #2
	Low Water Alarm
	High Water Alarm
	Phase Fail
PLC Communication Method.....	EtherNet/ IP w/ produce and consume tags
Remote Communication (Troubleshooting).....	No hardware will be provided to facilitate remote communications for troubleshooting and diagnostic assistance.

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LEAD TIME & PRICING

This quotation includes only equipment specifically mentioned herein and does not include, or infer inclusion of any additional piping, valves, wiring, etc., regardless of its relation to the quoted equipment. Discounts or commissions normally applied to the appropriate type of equipment also apply to these prices. Prices and estimated delivery dates are subject to change without notice in the event that vendors fail to maintain their quoted price and time of delivery to The Gorman-Rupp Company.

Estimated Submittal Time: 4-6 Weeks
Estimated Production Time*: 15-20 Weeks
Estimated Revise and Release Time**: 17-22 Weeks

* Estimated production time is based on either "approval- waived" submittals or submittal "approval" with no revisions required at time of release to production.

** Estimated revise and release to production time is based on the time it will take for the order to be revised and then released to production. This is only an estimation based on the current and/or forecasted workload and vendor lead times. This time is subject to change at the actual time of release.

NET Pricing: \$ 241,340.55

Shipping (To 1st U.S. Destination): Included

Notes/Exceptions:

- A) Installation by others. (See attached Concept Drawing)**
- B) Pump System provide on Pre-Assembled Common Steel base (No Enclosure)**
- C) Contractor to Provide and supply:**
 - 1) 792 Gallon Bladder Tank.**
 - 2) 2ea 6" Pump Suction lines with installation.**
 - 3) Discharge line and Connection to Bladder tank and bypass.**
 - 4) Enclosure/ Building as required by City.**

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*****Due to the lead time on the permanent system we would like to propose a temporary emergency pump package to provide irrigation water until the manufacture is able to deliver a complete assembled and tested permanent pump station. We have confirmed lead time and availability on the emergency system and can deliver the pumps and controls in 3-4 weeks at this time the manufacture has 1ea pump in stock in Ohio*****

EMERGENCY PUMP SYSTEM:

1ea Gorman-Rupp VS4 pump on Horizontal V-Belt Base with 100-hp, 1800 RPM TEFC Electric Motor, with 1ea 100-hp 480 volt, 3-phase NEMA 3R Simplex VFD control panel for pressure maintenance. (Exact Same Pump and Motor as Permanent irrigation system)

NET Price Emergency pump \$ 50,000.00

Note: Emergency Pump can be used for water feature pump and also as a back-up for Permanent Irrigation system.

Unless specifically mentioned in this proposal for inclusion with proposed items, PPS has not included any other items or services. Items quoted are standard construction and paint unless otherwise noted. Motors sent in for rebuild that are "Listed Motors" i.e. UL, FM, etc. will not be re-certified unless specifically stated at time of repair. Any sale of goods is based on our "Standard Terms & Conditions of Sales", request copy if needed. Proposal is limited to the items and quantities listed. Neither verbal nor handwritten changes are acceptable. Any revision to proposal will be provided in a re-typed "revised" proposal.

The equipment is quoted with freight allowed to the jobsite. Current estimated delivery of items is running 17-22 weeks after receipt of approved submittal drawings. Lead time is estimated at time of quote and may differ at time of order. Submittals can be furnished approximately 6 weeks after receiving acceptable purchase order.

We look forward to working with you on this and any future projects. If you have any questions or thoughts, please do not hesitate to call.

Sincerely,

Andy Anderson
210-819-3490

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