

PROJECT APPROVAL REQUEST

Golf Irrigation Pumphouse VFD Upgrade

October 11, 2022

1. The person or Committee proposing the project:
Javier Martinez
2. The project's description/scope including:
 - a. Narrative description of the project.
The golf course irrigation pumphouse has 2 pumps managed by proprietary obsolete DOS programming. The original vendor is no longer in business. Coast Controls (\$20,100) and Bill McDonald & Sons (\$51,490) provided quotes to upgrade pump operations with VFDs including permitting, material, and installation. Additional HD Fowler pipe and fittings (\$695) will be installed by in-house staff.
 - b. The project's purpose and the value LLCC members will receive from the completed project, including any health and safety improvement aspects.
VFDs extend the life of pumps providing soft start up and shut down. If the current DOS program were to fail, course watering would be in jeopardy.
 - c. Drawings and sketches as necessary to understand the project. NA
 - d. The approximate cost for the project, and the basis and assumptions for that cost estimate. \$20,795 plus tax
 - e. A recommendation as to whether the project should be delivered in-house with LLCC staff, use outside contractors or consultants, or be carried out by a combination of in-house and outside resources
Coast Controls installation with PM oversight
 - f. An approximate schedule, including any time constraints regarding project activities or completion date.
To be schedule based on equipment delivery.
3. The budget status of the project
 - a. Has a Committee, and/or the Board, already included the project in the current year's budget?
Yes, approved by the Board and Membership for the 2022-23 fiscal year
 - b. Is it in a longer-range capital improvement plan? Is it a new idea outside the current year budget cycle? NA

4. Additional considerations the Board may need to consider, including any foreseeable project risks or liabilities. [None](#)

5. Proposed project manager.

[Chris McMullen](#)

6. Evidence of coordination with the appropriate staff departments and management and the staff's recommendation.

[Project vendor bidding has been coordinated between Javier, Chris and CAM.](#)



H.D. FOWLER COMPANY

Customer: BIDDING CONTRACTORS
Estimator: Ted Huber
Job Name: IRRIGATION PUMP HOUSE
Location: SHELTON

Quote #: Q489367
Bid Date: 8/12/2022

Line	Qty	UoM	Description	Unit Price	Extended Price
1	1	EA	4" X 3'0" DIP SPOOL FLG X PE, CEMENT LINED, ASPHALTIC COATING OUTSIDE	369.60	369.60
2	1	EA	4" RFCA RESTRAINED FLANGED COUPLING ADAPTER 4.80 STEEL DIP SHOPCOAT STD B&N SBR GASKET ROMAC	297.19	297.19
3	2	EA	4" PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT) IMPORT	12.67	25.34
4	1	EA	4" 1/8" RING GASKET RED RUBBER, 150#	2.04	2.04
Approximate Total					694.17

1. Project: : Irrigation Pump House Controls Upgrade

Upgrade the Lake Limerick Country Club Water System's Irrigation Pump House Controls:

Project entails replacing the existing pump controls with Yaskawa iQpump Micro drives, allowing for programmable values for a wide range of applications. The drives will automatically adjust pump operating conditions, as the process variables change while still maintaining optimum pump performance and protection. The upgrade equipment includes two (2) new Endress+Hauser PMP21 pressure transducers providing level measurement communication to the iQpump drives. An OmniBeacon alarm provides a visual (light) alarm on site while also sending a cellular alarm to your operator defined alert list via text, email and/or voice.

Omni service requires a monthly payment of \$12 a month for the cellular alarming system paid directly to the Omnisite.

Materials included:

Qty. 2 Endress+Hauser PMP21-E9N3/0, Approval: CSA C/US General Purpose, Output: 4-20mA, Electrical Connection: Cable 10m, IP66/68 NEMA Type 4X/6P Encl. Sensor Range: 2bar/200kPa/30psi gauge, overload: 10bar/1MPa/150psi, Calibration; Unit: Sensor range; psi, Process Connection: Thread ASME MNPT1/2 FNPT1/4, 316L

Qty. 1 Yaskawa iQpump 1000 Standard Drive, with integral pump control software and multiplexing, 7.5 HP, 11.1 Amps, 380-480V 3-Phase, NEMA 1 Enclosure

Qty. 2 Yaskawa iQpump 1000 Standard Drive, with integral pump control software and multiplexing, 25 HP, 38 Amps, 380-480V 3-Phase, NEMA 1 Enclosure

Qty. 1 OmniBeacon 120 VAC Power Verizon version (Monthly service billed direct from OmniBeacon = \$12 not included in pricing)

Miscellaneous wire, terminals, conduit, and connections to install above equipment.

Labor included:

Electrical: Licensed electrical and electrical permit to provide and install 2x 3p 50amp and 1x 3p 15amp feeder breakers in existing Eaton panel board, provide and install flex and wire from panel to VFDs, and extend pump feeders to new VFDs and provide terminations.

Instrumentation: Programming of sensors and drives to operator specifications, installation of drives, sensors and alarm, set up of alarm system, commissioning of complete system.

Total: \$20,100

Plus WA St Sales Tax.

2. Option: NEMA4 Enclosures on iQump Micro drives

Increasing to a NEMA4 classification on the drives provides a degree of protection against dust, dirt, fibers, and dripping non-corrosive liquid.

Total: \$1,600.00

Plus WA St Sales Tax

3. Terms & Conditions

1. This proposal is based on the Coast Controls and Automation Inc. Standard Terms & Conditions of Sale and is valid until September 1, 2022.
 - 1.1. Payment terms are Net 30. Past due accounts accrue a 1.5% monthly finance charge.
 - 1.2. A 2% processing fee is applied when payment is made by credit card.
 - 1.3. Shipping is prepaid and added to the invoice.
 - 1.4. The equipment outlined in this proposal is customized and cannot be returned, or cancelled.
 - 1.5. The monthly service charge (currently \$12) for the OmniBeacon is not included in this pricing and will be billed direct by OmniSite.
 - 1.6. Sales tax is not included and will be added to the invoice.
2. Any changes to the scope will be billed at the regular hourly rate of \$115 per hour. Change Orders should be discussed prior to execution and a written change needs to be approved by both parties.

McDonald & Sons Ventures LLC

JOB QUOTE

8124 61st Ave Ct. E
Puyallup, Washington 98371

Phone Will (253) 209-1473 Andrew (206) 775-9563 Fax (253) 302-5490

Email: will@mcdonaldsonslc.com andrew@mcdonaldsonslc.com

DATE: 5/24/2022
QUOTE # LLGC 5-22

Bill To: Lake Limerick Golf Course
790 E Saint Andrews Drive
Shelton, WA 98584

Ship To: Same Address

Comments or Special Instructions: Quotes for updating golf pump station

SALESPERSON	P.O. NUMBER	SHIP DATE	SHIP VIA	F.O.B. POINT	TERMS
Will			our truck		Due on receipt

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1.0	Watertronics VFD control panel with EBV	\$ 44,372.00	\$ 44,372.00
24.0	labor	125.00	3,000.00
			47,372.00
	Sales Tax		4,121.36
	Total		51,493.36
1.0	Watertronics Control Panel EBV only	22,296.00	22,296.00
24.0	labor	125.00	3,000.00
			25,296.00
	Sales Tax		2,200.75
	Total		27,496.75
1.0	Cloud Based 5 Year Subscription	6,972.00	6,972.00
	Optional WaterVision Monitor Package		
	Sales Tax		606.56
	Total		7,578.56
		SUBTOTAL	
		TAX RATE	
		SALES TAX	-
		SHIPPING & HANDLING	
		TOTAL	\$ -

Make all checks payable to **McDonald & Sons Ventures LLC**

THANK YOU FOR YOUR BUSINESS!