

## PROJECT APPROVAL REQUEST

### Golf Course Irrigation Faceplates

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.  
[First year of a 3-year plan to modernize the reliability of the golf irrigation system for replacing 3 of 11 zone faceplates.](#)  
[The course has 11 water zones radio controlled from a computer located in the Golf Superintendents office. Each zone has a faceplate that activates sprinklers per hole. Current faceplates are over 15 years old, starting to fail, and difficult to source. Upgraded faceplates are recommended to maintain the reliability of the course watering program.](#)
  - b. The project's purpose and the value LLCC members will receive from the completed project, including any health and safety improvement aspects.  
[Purpose is to maintain a reliable course watering system](#)
  - 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.  
[\\$23,065.51 vendor Turf Star Western quote, see attached](#)
  - 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  
[Project will be installed and tested by a combination of vendor Turf Star Western and Greens staff](#)
  - f. An approximate schedule, including any time constraints regarding project activities or completion date.  
[Project will be an off season scheduled project when all parts are delivered.](#)
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, the project is Board and Member budget approved 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.  
[NA](#)
  
- 5. Proposed project manager.  
[Javier Martinez](#)
  
- 6. Evidence of coordination with the appropriate staff departments and management and the staff's recommendation.  
[Water, Facilities, and Greens staff have proven ability supporting each other including CAM communications.](#)



Date: July 28, 2022

## Quotation for Lake Limerick Golf & Cc Irrigation Products Quote

Quote No:8073675-00

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| <b>Prepared For:</b> Javier Martinez | <b>Quote No:</b> 8073675-00       |
| Lake Limerick Golf & Cc              | <b>iQuote No:</b> TS0728143822    |
| 790 E Saint Andrews Dr               | <b>Sales Person:</b> Alex Hedlund |
| Shelton, WA 98584                    | alex.hedlund@turfstar.com         |
|                                      | (360) 296-8668                    |

### Irrigation Products

| Model             | Product Description                | Qty | Unit Price | Subtotal           | Sales Tax         | Total              |
|-------------------|------------------------------------|-----|------------|--------------------|-------------------|--------------------|
| 118-2987          | KIT, OSMAC G3 UPGRADE              | 3   | \$1,541.70 | \$4,625.10         | \$393.13          | \$5,018.23         |
| SYSOP40           | System Optimization 40 Hrs on Site | 1   | \$5,600.00 | \$5,600.00         | \$476.00          | \$6,076.00         |
| RIU-01            | Radio Interface Unit Single Radio  | 1   | \$9,998.10 | \$9,998.10         | \$849.84          | \$10,847.94        |
| LYNXAPPS          | Lynx Apps Application              | 1   | \$132.00   | \$132.00           | \$11.22           | \$143.22           |
| AA107T50BN<br>C-N | Base Ant and Cable Kit             | 1   | \$903.33   | \$903.33           | \$76.79           | \$980.12           |
| <b>Totals:</b>    |                                    |     |            | <b>\$21,258.53</b> | <b>\$1,806.98</b> | <b>\$23,065.51</b> |

#### Standard Terms and Conditions

Prices are valid for 30 days from date of quotation. Open Account Terms are N30, subject to credit approval. Irrigation products are sold in case quantity. Freight charge may apply.



## Network LTC Plus to Network VP

Available as an upgrade kit for existing LTC Plus satellites. Upgrade kit includes Network VP Faceplate, Network LTC Plus To Network VP Power Distribution Board, Cable and Hardware.

### FEATURES & BENEFITS

- ✓ Station based flow management shortens watering window
- ✓ Intuitive user interface simplifies manual irrigation
- ✓ Station runtimes executed to the second helps save water
- ✓ Upgrade to Lynx for enhanced central capabilities



#### Specifying Information—Network LTC Plus Upgrade Kit

|   |
|---|
| <b>118-0038</b>   |
| <i>Kit Contains</i>   |
| Network VP Faceplate, Network LTC Plus To Network VP Power Distribution Board, Cable and Hardware |

## Network LTC Plus to LTC Pro

Available as complete satellites or upgrade kit for existing LTC Plus satellites. Upgrade kit includes LTC Pro Faceplate, Power Distribution Board, Cable and Hardware.

### FEATURES & BENEFITS

- ✓ Intuitive user interface simplifies faceplate functions
- ✓ Enhanced manual operations
  - Runtimes to the second
  - Stackable multi-manuals
  - Start/Pause/Stop
- ✓ Backwards compatible with SitePro®



#### Specifying Information—LTC Pro Satellites

| <b>LTCRXXX6XX</b>  |                                      |                   |           |                     |   |
|--|--------------------------------------|-------------------|-----------|---------------------|---|
| Description  | Configuration                        | Cabinet           | Output    | Comm.               | Options   |
| <b>LTCR</b>  | <b>XX</b>                            | <b>X</b>          | <b>6</b>  | <b>X</b>            | <b>X</b>  |
| LTCR - LTC Pro   | 16 – 16 Stations<br>40 – 40 Stations | P – Plastic Green | 6 – 24VAC | M – Wire<br>– Radio | 4 – Large Terminal Block, Switches, Premium Surge |
| <b>Example:</b> When specifying a 40-station, wire communication satellite, you would specify: <b>LTCR40P6M4</b> |                                      |                   |           |                     |   |

#### Specifying Information—LTC Pro Upgrade Kit

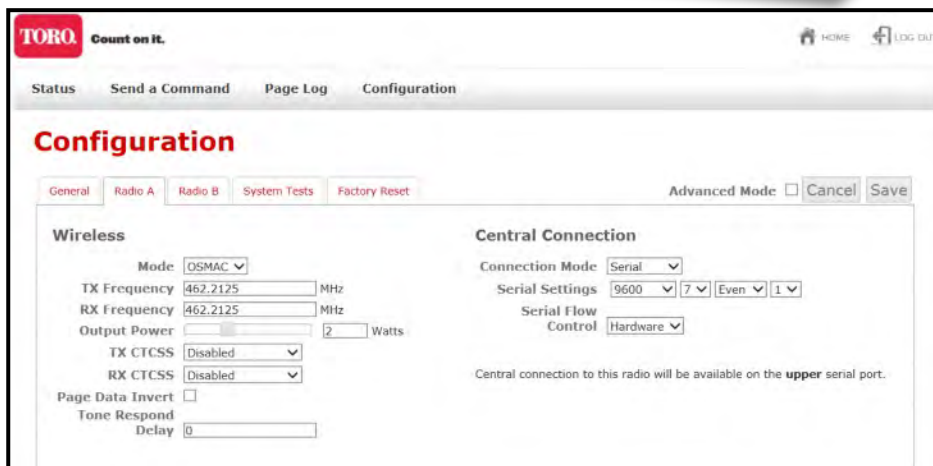
|   |
|---|
| <b>118-4838</b>   |
| <i>Kit Contains</i>   |
| LTC Pro Faceplate, Power Distribution Board, Cable and Hardware |

## Radio Interface Unit (RIU)

The Toro® Radio Interface Unit combines the functions of the OSMAC® Base Station and Hand-held Remote Interface (HHRI) in a single unit. Available in a dual radio configuration that performs both Base Station and HHRI functions, a single radio configuration that's programmable for either function, and a radio-less configuration that's programmable for either function and utilizes a user-supplied

## FEATURES & BENEFITS

- ✓ Provides control of your system while you're on-the-go
- ✓ Provides both hand-held control and central-to-satellite communication
- ✓ Designed to operate continuously, 24/7
- ✓ Interfaces with your Lynx® or SitePro® central without the burden of recurring network costs
- ✓ Tailored to fit your application with programmable selections for: OSMAC Base Station and hand-held remote interface modes, independent transmit/receive UHF frequencies, independent transmit/receive private line settings (CTCSS) and transmit power.



*Radio Interface Unit (RIU) Graphical User Interface.*

### *Specifying Information—Radio Interface Unit (RIU)*

| Model  | Description                           |
|--------|---------------------------------------|
| RIU-00 | Radio Interface Unit – External Radio |
| RIU-01 | Radio Interface Unit – Single Radio   |
| RIU-02 | Radio Interface Unit – Dual Radio     |

*Note: FCC license required.*



The OSMAC G3 satellite is easy to install, troubleshoot and maintain. Economical because you buy only what you need and can expand as your site conditions change. They utilize paging technology to create one of the most convenient, dependable, and flexible satellites on the market. Employing wireless communication, these satellites are great for retrofit projects. Available as complete satellites or upgrade kit for existing E-OSMAC satellites. Upgrade kit includes OSMAC G3 faceplate, interface cable and hardware.

## FEATURES & BENEFITS

### ✓ Low Cost Wireless Communication

Ideal choice for upgrading existing systems. No communication wires are needed. Mounts to many existing pedestal bolt patterns.

### ✓ Easily Expandable

OSMAC G3 offers up to 64 stations in eight-station increments.

### ✓ Lower Operating Costs

The enhanced surge protection on OSMAC G3 provides lower operating costs. Ideal for high lightning areas.

### ✓ Enhanced Diagnostics

Page log and radio signal strength readings provide local troubleshooting capabilities.





**Additional Features:**

- ✓ Stand-alone capabilities include scheduled irrigation programs, manual program start and station multi-manual
- ✓ Received Signal Strength Indication (RSSI) at the satellite faceplate aids in system installation and troubleshooting
- ✓ Page Log records the last 100 commands received by each satellite
- ✓ Improved radio performance helps overcome difficult environmental conditions
- ✓ Available as complete satellites and an upgrade kit for existing E-OSMAC units

**SATELLITE SPECIFICATIONS**

**Operational**

*OSMAC G3:*

- Colored LED indicators to confirm 24-, 9-, and 5-volt power to various boards within the cabinet
- LED's for each station output
- Internal antenna allows for smaller profile cabinet
- Patented Hot Post for each eight-station module

**Electrical**

- Input power: 120/240 V ac, 50/60 Hz

*OSMAC G3:*

- 0.20 amps, 110-120 V ac, 60 Hz (no load)
- 0.96 amps, 110-120 V ac, 60 Hz (max load)
- 0.10 amps, 220-240 V ac, 50/60 Hz (no load)
- 0.47 amps, 220-240 V ac, 50/60 Hz (max load)

**Dimensions**

- Plastic Cabinet: 17" W x 40" H x 16" D

**Options**

- Surge protection

*Specifying Information – OSMAC G3 Upgrade Kit*

|  |
|--|
| <b>118-2987</b>                                  |
| <i>Kit Contains</i>                              |
| OSMAC G3 Faceplate, Interface Cable and Hardware |

*Specifying Information—OSMAC G3 Satellites*

| G-X XX 6ANMX   |  |   |            |                      |  |
|--|--|---|------------|----------------------|--|
| Description  | Configuration  | Cabinet   | Output     | Communication        | Options  |
| E  | XX   | X   | 6A         | X                    | MX   |
| G – OSMAC G3   | 16 – 16 Stations<br>24 – 24 Stations<br>32 – 32 Stations<br>40 – 40 Stations<br>48 – 48 Stations<br>56 – 56 Stations<br>64 – 64 Stations | P – Plastic Green<br>B – Plastic Tree Bark T<br>– Plastic Desert Sand | 6A – 24VAC | N – Narrowband Radio | 3 – Large Terminal Blocks, Switches<br>4 – Large Terminal Block, Switches, Premium Surge |
| Example: When specifying a 40-station, satellite in a green plastic cabinet with large terminal block, switches and premium surge you would specify:G-40P6ANM4 |  |   |            |                      |  |