

# LL2 Grant Application



Submit completed application to:

Lauren Sampedro

lauren.sampedro@vlawmo.org

## Applicant Information:

Organization Name:	White Bear Township
Project Contact:	Peter Tholen
Address:	4200 Otter Lake Rd.
City/Township, State, Zip:	City of Gem Lake
Phone:	651.747.2776
Email:	pete.tholen@whitebeartownship.org

## Project Summary:

ESTIMATED TOTAL PROJECT COST (\$)	\$6,541.00 [\$495.00 for smart controller]
AMOUNT REQUESTED	\$445.50
EXPECTED PROJECT COMPLETION (Month, Year)	October, 2024

### PROJECT TYPE:

- Water Quality Treatment
- Stormwater Rate and Volume Control
- Groundwater Conservation
- Other

If other, please describe the proposed project: \_\_\_\_\_

## Project Background:

Describe the project location and water resources that will benefit from the project.	This locations is the City Hall in Gem Lake and the project is for smart irrigation controller. The anticipated benefit is that there will be groundwater conservation compared to conventional irrigation controller if one was to be installed at this site.
What issues will be addressed with this project?	

## Project Background: Continued

<p>Provide estimated water quality results, stormwater rate/volume reduction, or groundwater conservation benefits associated with the project.</p>	<p>This is a new system and the City does not have that information on the specific benefits yet (until we try the controllers out).</p>
<p>Describe the public education and outreach efforts or signage planned for the project.</p>	<p>The City of Gem Lake will work with VLAWMO to advertise the project and the anticipated benefits to the community.</p>
<p>List or describe any partnerships or other forms of support for the project, including external funding sources.</p>	

## Project Specifications:

<p>TOTAL PROPERTY AREA (Acres)</p>	<p>1</p>	<p>Total PROJECT SIZE (Sq Ft)</p>	<p>N/A</p>
<p>IMPERVIOUS AREA DRAINING TO PROJECT (Sq Ft):</p>	<p>N/A</p>	<p>PERVIOUS AREA DRAINING TO PROJECT (Sq Ft):</p>	<p>N/A</p>

## Required Attachments:

- ⇒ Detailed final plan set of the proposed project that includes the estimated, quantitative outcomes of the project.
- ⇒ At least 2 bids for construction of proposed project.
- ⇒ Detailed project budget estimate with itemized materials and costs that equal the total project cost.



Project Name :  
**Gem Lake Heritage Hall**  
  
Gem Lake, MN

Customer Name :

Design Date: 4/30/24

**NOT FOR CONSTRUCTION**

**REVISIONS**

Description	Date
Δ	
Δ	
Δ	
Δ	

Drawing Title:  
Irrigation Plan

NORTH

Drawing Scale: 1" = 30'

Project Number: HJS-24-21694

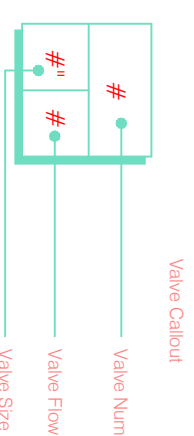
Sheet Number:

IR-1

**IRRIGATION SCHEDULE BASE**

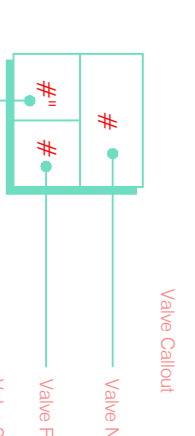
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter MP2000 PROS-04	5
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGP-04 1.5	7
	Hunter PGP-04 2.5	25
	Hunter PGP-04 4.0	3

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter PGR-100G-1	1
	1\"/>	5
	Commercial Uses, Female NPT Inlet/Outlet, Globe Configuration, No Flow Control	
	Zurn 973XL-1	1
	Reduced Pressure Backflow device	
	Hunter P2C-400 with (01) PCM-300 Light Commercial & Residential Controller, 7-station expanded module controller, 120 VAC, Outdoor/indoor model	1
	Hunter WR-CLIK	
	Rain Sensor, install within 1000 ft of controller, in line of sight, 22-28 VAC/VDC, 100 mA power from timer transformer. Mount as noted.	1
	Point of Connection 1 1/4"	1
	Location TBD	
	Irrigation Lateral Line: POLY PIPE 1"	952.3 L.F.
	Irrigation Lateral Line: POLY PIPE 1 1/4"	109.0 L.F.
	Irrigation Mainline: HDPE PE3608 SDR 19 1 1/4"	152.6 L.F.
	Pipe Steeve: PVC Class 160 SDR 28	9.3 L.F.



**IRRIGATION SCHEDULE ALT**

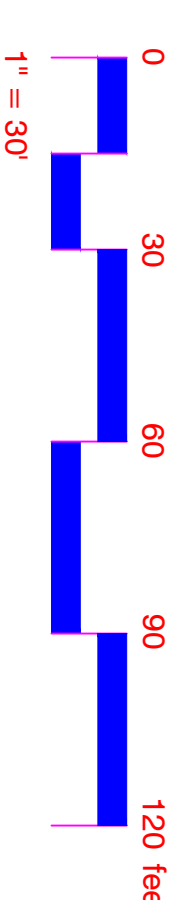
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter MP2000 PROS-04	13
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGP-04 2.5	2
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter PGR-100G-1	1
	1\"/>	1
	Commercial Uses, Female NPT Inlet/Outlet, Globe Configuration, No Flow Control	
	Irrigation Lateral Line: POLY PIPE 1"	316.0 L.F.
	Irrigation Lateral Line: POLY PIPE 1 1/4"	124.1 L.F.



- IRRIGATION SPECIFICATIONS**
- IRRIGATION POINT OF CONNECTION SHALL BE CAPABLE OF WITHSTANDING A VARIABLE FLOW RATE OF 20 GPM AT A CONSTANT PRESSURE OF 70 PSI ON MAINLINE OR 70 PSI ON LATERAL LINE. THE ACTION OF ANY OTHER CONNECTION OR CONNECTIONS SHALL BE MADE CONCURRENT WITH THE MAINLINE OR LATERAL LINE CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND NOTIFY OWNER'S REPRESENTATIVE AND IRRIGATION CONSULTANT IF THEY CANNOT BE MET.
  - IF THE POINT OF CONNECTION EXCEEDS THE ABOVE PRESSURE REQUIREMENTS, A PRESSURE REGULATOR SHALL BE INSTALLED AT THE POINT OF CONNECTION. THE PRESSURE REGULATOR SHALL BE INSTALLED IN A MANNER SATISFYING LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
  - AN EXISTING BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED IN A MANNER SATISFYING LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
  - POWER FOR THE IRRIGATION CONTROLLER, PUMP AND OTHER ELECTRICAL COMPONENTS SHALL BE PROVIDED BY OTHERS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL ELECTRICAL SERVICE ENTRANCES AND CONDUITS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE.
  - IRRIGATION SYSTEM IS DESIGNED SCHEMATIC IN NATURE. ANCHOR FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE FOR LANSKAPING CHANGES, PLANNING ERRORS OR OTHER OBSTRUCTIONS. THESE ADJUSTMENTS MAY BE MADE ON, AFTER NOTIFYING THE OWNER'S REPRESENTATIVE.
  - SOME IRRIGATION COMPONENTS AND PIPING ARE SHOWN IN HATCHED AREAS AND OUTSIDE OF PROPERTY BOUNDARIES. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND PIPING SHALL BE INSTALLED INSIDE OF THE PROPERTY LINES AND OUTSIDE OF HATCHED AREAS.
  - MAINLINE, LATERALS AND CONTROL WARES SHALL BE INSTALLED INSIDE THE SAME TRENCH WHEREVER POSSIBLE.
  - SYSTEM TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
  - CONTROLLER SHALL BE GROUNDING PER MANUFACTURER'S SPECIFICATIONS.
  - ALL CONTROLLER/COVER WIRE SHALL BE THE 2-WIRE CABLE SPECIFIED BY THE CONTROLLER MANUFACTURER.
  - ALL FIELD WIRE ABOVE GROUND WITHIN STRUCTURE TO BE INSTALLED IN CONDUIT PER LOCAL CODES.
  - ALL FIELD WIRE BELOW GROUND WITHIN STRUCTURE TO BE INSTALLED IN CONDUIT PER LOCAL CODES.
  - AND SIZE OF WIRES. ALL SPICES SHALL BE MADE INSIDE A VALVE BOX.
  - DEPTH OF IRRIGATION SPRING 36" ON MAINLINE, 27" ON LATERALS.
  - SERVICING UNDER PAVED AREAS SHALL BE INSTALLED AT A DEPTH OF 24".
  - CONTRACTOR'S RESPONSIBILITY TO VERIFY SCALE & ACCURACY.
  - NO SPEC PROVIDED

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND PIPING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE.

PLEASE SEE ABOVE DRAWINGS FOR ALL OTHER SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND PIPING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, IF POWER AVAILABLE IS INADEQUATE.







## Fine Line Irrigation LLC

22351 Saint Croix Trail North | Scandia, Minnesota 55073  
6512027459 | finelineirrigation.mn@gmail.com | www.finelineirrigationmn.com

**RECIPIENT:**

**City of Gem Lake (Heritage Hall)**

4200 Otter Lake Road  
Gem Lake, MN 55110

Quote #35	
Sent on	May 14, 2024
<b>Total</b>	<b>\$8,338.28</b>

Product/Service	Description	Qty.	Unit Price	Total
Hunter pro spray pop up		5	\$3.20	\$16.00
MP Rotator 2000		5	\$12.00	\$60.00
Hunter PGP Ultra		35	\$25.00	\$875.00
Hunter pgv valve 1inch		5	\$30.25	\$151.25
10inch Dura Round Valve Box		5	\$41.98	\$209.90
Hunter Pro-c 4 station base		1	\$314.00	\$314.00*
Hunter 3 Station Expansion Module for Pro-c	\$552.50 Smart Irrigation Controller	1	\$83.50	\$83.50*
Hunter Wireless Rain Censor and Receiver		1	\$155.00	\$155.00
10 conductor 18 guage wire	per foot	250	\$0.99	\$247.50*
1inch Poly	300foot roll	4	\$187.20	\$748.80*
1-1/4 Poly Pipe	300foot roll	1	\$200.00	\$200.00*
Pvc sleeve 3x20		1	\$81.23	\$81.23*
Fittings		1	\$400.00	\$400.00*
Rain bird Flex Pipe		2	\$48.05	\$96.10
Labor		1	\$4,200.00	\$4,200.00
Equipment		1	\$500.00	\$500.00*

**A deposit of \$4,169.14 will be required to begin.**



Base Bid

Alternate Bid







# Albrecht Company

1408 W. County Road C ♦ Roseville, MN 55113 ♦ Ph (651)-633-4510 ♦ Fax (651) 633-1675 ♦ www.albrechtcompany.com ♦ mail@albrechtcompany.com

April 9, 2024

Attn: Melissa Lawrence - City Clerk  
City of Gem Lake

## Second Update - Proposal for Lawn Irrigation System – Gem Lake City Hall

4200 Otter Lake Road  
Gem Lake, MN 55110

Irrigation Base Bid	<b>\$6,541*</b>
Estimated quantities	
<ul style="list-style-type: none"> <li>• ( 1 ) Hunter HPC 4 station WiFi enabled controller with ( 1 ) 3 station module</li> <li>• ( 1 ) Wireless rain sensor</li> <li>• ( 5 ) Hunter model PGV 1” remote control valves</li> <li>• ( 28 ) Hunter PGP Ultra 4” rotor</li> <li>• ( 14 ) Hunter Pro-S 4” spray head with MP Rotator nozzle</li> <li>• ( 10 ) lineal feet of 3” PVC sleeve installed via compaction boring</li> <li>• ( A/R ) 100# High density polyethylene pipe – size as required</li> <li>• ( A/R ) #18-12 multi conductor direct burial control wire</li> </ul>	\$495.00 Smart Irrigation Controller

Irrigation Alternate #1	<b>ADD \$5,380*</b>
Estimated quantities	
<ul style="list-style-type: none"> <li>• ( 2 ) Hunter model PGV 1” remote control valves</li> <li>• ( 7 ) Hunter PGP Ultra 4” rotor</li> <li>• ( 11 ) Hunter Pro-S 4” spray head with MP Rotator nozzle</li> <li>• ( 25 ) lineal feet of 3” PVC sleeve installed via compaction boring</li> <li>• ( A/R ) 100# High density polyethylene pipe – size as required</li> <li>• ( A/R ) #18-12 multi conductor direct burial control wire</li> </ul>	

**\*NOTES:**

- Quote is based on existing water source being in good working condition
- Quote is based on using existing electrical outlet
- WiFi connection to controller provided by owner
- Subject to changes for irregular concealed contingencies, such as rocks and debris.
- Private utilities located by others
- Property line established by others
- Quote is based on available water flow rate of ( 30 ) gallons per minute and static pressure of ( 70 ) p.s.i. at point of connection

**This proposal may be withdrawn by Albrecht Co. if not accepted within 15 days. Please feel free to call me for verification.**

**Acceptance of proposal:** The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be 30% down and the balance in full upon completion. Albrecht Company’s bid does not reflect any costs for bond or on permits. **A 2.9% service fee will be added to any payments made by credit card.**

Signature: \_\_\_\_\_

Date of acceptance: \_\_\_\_\_

# Subject: RE: Smart Irrigation Controller



**Matt@Albrechtcompany.com** <Matt@albrechtcompany.com>  
to Pete Tholen, Melissa Lawrence, Gretchen Artig-Swomley, Paul Peltier

1

**Caution:** This email originated outside our organization; please use caution.

Good morning, Peter.

Controller installation is \$495.

We have not set a date on this installation as we have not received an approval to move forward, but I think we would be installed by September 1<sup>st</sup> if that works?

Let me know if you need anything else from us.

Respectfully,

Matt Johnson  
General Manager  
Albrecht Company  
1408 County Road C W  
Roseville, MN 55113  
651-633-4510 (phone)  
651-633-1675 (fax)  
[www.albrechtcompany.com](http://www.albrechtcompany.com)

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**From:** Pete Tholen <[Pete.Tholen@whitebeartownship.org](mailto:Pete.Tholen@whitebeartownship.org)>

**Sent:** Tuesday, May 28, 2024 10:43 AM

**To:** Matt@Albrechtcompany.com

**Cc:** Melissa Lawrence <[melissa.lawrence@gemlakern.org](mailto:melissa.lawrence@gemlakern.org)>; Gretchen Artig-Swomley <[gretchen.artig-swomley@whitebeartownship.org](mailto:gretchen.artig-swomley@whitebeartownship.org)>  
Paul Peltier <[Paul.Peltier@whitebeartownship.org](mailto:Paul.Peltier@whitebeartownship.org)>

**Subject:** Smart Irrigation Controller

Matt,

Good morning. I need a break down in the pricing for the smart irrigation controller that was provided to the City of apply for grant money. Another question is do you have a date this work will be scheduled because I need to state the project completion date is going to be.

Thanks,

**Peter Tholen**  
**Field Maintenance Supervisor**  
**[Pete.tholen@whitebeartownship.org](mailto:Pete.tholen@whitebeartownship.org)**