



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

## Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday May 15, 2019

### **Agenda Item**

**Item 5. B. - Cost Share Application; 1437 Valley Drive, Burnsville**

### **Prepared By**

Linda Loomis, Administrator

### **Summary**

The LMRWD received a cost share application for a rain garden from a Burnsville resident. This resident received funding (in the amount of \$250) last year through the LMRWD agreement with the Dakota County SWCD. This raingarden will collect currently untreated water from the roof of the home. The applicant estimates the amount of roof area at 252 sq. ft. The applicant plans to connect additional roof drains to the rain garden in the future to treat an additional 129 sq. ft.

The total cost of the project the applicant is proposing this year is \$1,820.97. The applicant is requesting \$785. There is no estimate of labor to prepare and plant the raingarden, the cost estimate is all based on materials. The applicant is working with the Dakota SWCD for technical assistance.

### **Attachments**

2019 Cost Share Application for 1437 Valley Drive, Burnsville.

### **Recommended Action**

Motion to approve Cost Share Application



LOWER MINNESOTA RIVER  
WATERSHED DISTRICT

## Cost share grant application 2019

Application type (check one)  Homeowner  Non-profit - 501(c)(3)  School  
 Business or corporation  Public agency or local government unit

Project type (check all that apply)  Raingarden  Vegetated Swale  Infiltration Basin  
 Wetland restoration  Lake/creek/wetland buffer  Conservation practice  
 Shoreline/bank stabilization  Pervious hard surface  
 Other \_\_\_\_\_

### Applicant Information

Name of Organization or Individual Applying for Grant (to be named as Grantee):

Robin Galligher Glassen

Address (street, city and ZIP code):

1437 Valley Drive · Burnsville · 55337

Phone: 952.942.6882 / 612.532.4704 Email address: RRG37@aol.com / rglassen@gmail.com

### Primary Contact (if different from above)

Name of Organization or Individual Applying for Grant (to be named as Grantee):

Address (street, city and ZIP code):

Phone: \_\_\_\_\_ Email address: \_\_\_\_\_

### Project location

Address (street, city and ZIP code):

1437 Valley Dr · Burnsville · 55337

Property Identification Number (PID)

02-82203-02-020

Property Owners:

(William) Jason Glassen, Robin Galligher Glassen

### Project Summary

Title Glassen Luna Moth Raingarden

Total Project Cost \$1,820.97 Grant amount requested \$785

Estimated start date May 18, 2019 Estimated completion date May 26<sup>th</sup>, 2019

Is project tributary to a water body?  No, water remains on site  Yes, indirectly  Yes, directly adjacent



**Project description:**

The luna moth raingarden will be roughly 130-140 ft<sup>2</sup> and capture runoff from 252ft<sup>2</sup> with the ability to capture runoff of another 129 ft<sup>2</sup> when an additional downspout is added. The project will require a small retaining wall as its adjacent to a hill. The raingarden will contain over 150 (mostly all native) plants for pollinators.

Is this work required as part of a permit?  No  Yes  
(If yes; describe how the project provides water quality treatment beyond permit requirement on a separate page.)

**Project Details**

**Checklist** To be considered complete the following must be included with the application.

- location map
- site plan & design schematic
- itemized budget or contractor bid
- project timeline
- proof of property ownership
- plant list & planting plan (if project includes plants)

**Description**

Describe the current site conditions, as well as site history, and past management

The current condition of the site is typical turf grass and has been over since we bought the house 18 years ago.

What are the project objectives and expected outcomes? Give any additional project details.

The project objectives include providing an area to collect water runoff from our roof and allow it to be filtered before entering our local ponds and river. Another objective is to provide a food source for pollinators and wildlife by planting many native plants.

List other key participants and their roles (provide contact information for each partner and his/her expected contribution to the project)

- Jason\* - equipment operation, transport materials (compost, mulch, bricks, etc.), tilling, planting, dry creek bed and retaining wall install
- Jayden\* - loading/unloading of materials, install dry creek bed and retaining wall, mulch and compost
- Kylie & Layla\* - plant plants
- Robin - ALL of the above EXCEPT equipment operation

Which cost share goals does the project support? (check all that apply)

- improve watershed resources
- Foster water resource stewardship
- increase awareness of the vulnerability of watershed resources
- increase familiarity with and acceptance of solutions to improve waters

How does the project support the goals you checked?

This project supports the above goals by reducing turf grass and replacing it with a raingarden that will collect and filter 252ft<sup>2</sup> of runoff (with an additional 129ft<sup>2</sup> to be added) before that water reaches the river and local pond. The native plants that will be planted will improve the permeability of the soil. It will increase awareness of watershed resources to surrounding neighbors and those that we speak to about the project. We can share with others what they can do to help improve waters on their property (e.g. church, school, etc). Signage will also increase awareness.

## Project Details (continued)

**Benefits** Estimate the project benefits in terms of restoration and/or annual pollution reduction. If you are working with a designer or contractor, they can provide these numbers. If you need help contact the district Administrator.

Benefit	Amount
Water captures	gal/year
Water infiltrated	gal/year
Phosphorus removed	lbs/year
Sediment removed	lbs/year
Land restored	140 sq. ft.

Water runoff captured from impervious surface 252 ft<sup>2</sup> (+additional 129 ft<sup>2</sup> to be added after 1 yr)

How will you share the project results with your community?

We will share the benefits/outcome of the raingarden with neighbors, friends and family. We will encourage as many as we can to install raingardens in their own yards. We'd love to display a sign in the raingarden as well.

Are there other projects that could be initiated as a result of this one?

This raingarden could encourage neighbors to install one or more in their own yard to help local water quality. If we are able to add another raingarden to our yard, we will do so!

## Evaluation

How will the project be monitored and evaluated?

My husband and I will be monitoring the project. We will continue to evaluate its effectiveness and make any changes that may be needed.

## Maintenance agreement

I acknowledge that receipt of a grant is contingent upon agreeing to maintain the project for the number of years outlined in the cost share guidelines.  Yes

## Authorization

Name of landowner or responsible party Robin Gallagher Glassen

Signature Robin Gallagher Glassen Date 5.8.19

Type or handwrite your answers on this form. Attached additional pages as needed

(For questions, contact Linda Loomis at [NaiadConsulting@gmail.com](mailto:NaiadConsulting@gmail.com) or call 763-545-4659.)

Mail the completed application to:

or Email to:

Lower Minnesota River Watershed District  
c/o Linda Loomis, Administrator  
112 E. Fifth St., Suite 102  
Chaska, MN 55318

Linda Loomis, Administrator  
[naiadconsulting@gmail.com](mailto:naiadconsulting@gmail.com)



## Project Timeline:

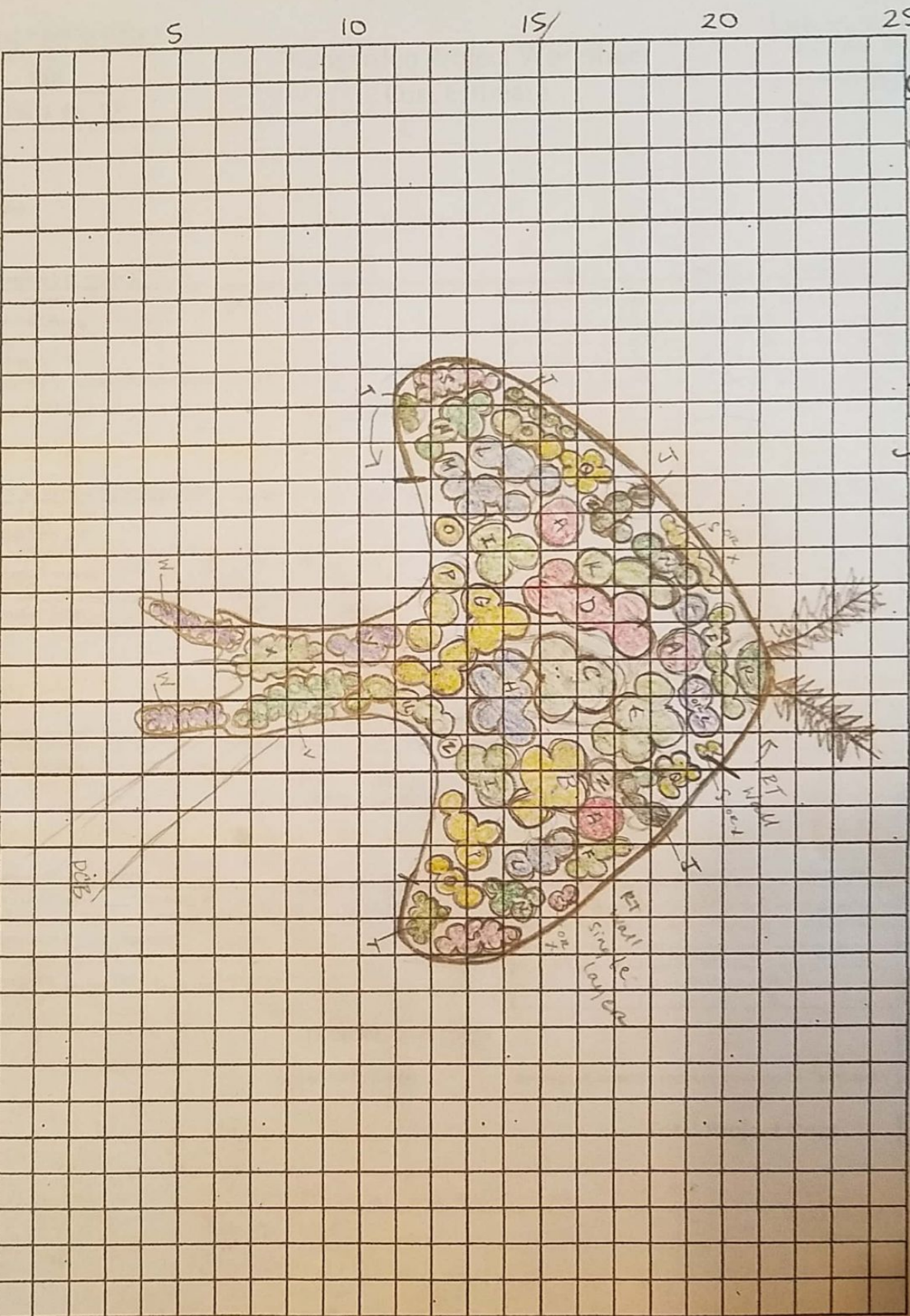
May 17<sup>th</sup>-19<sup>th</sup>\* - equipment rental to complete sod removal  
and edging trench.  
- begin retaining wall

May 20<sup>th</sup>-24<sup>th</sup>\* - finish retaining wall  
- add compost and mulch  
- install dry creek bed

May 24<sup>th</sup>-25<sup>th</sup> - plant plants

\* dependant on site visits from LCW

Glassen Luna Moth Rain Garden



- A - Columbine (3)
- B - Yellow Pimpernel (4)
- C - Black cohosh (3)
- D - Cardinal flower (5)
- E - Tall Thimbleweed (5)
- F - Bishop's cap (10)
- G - Zigzag gold chrysanthemum (5)
- H - Tall bellflower (5)
- I - Poke milkweed (6)
- J - Jack-in-the-pulpit (8)
- K - Sp. Kar-cot (3)
- L - Bluebells (9)
- M - Virginia bluebells (5)
- N - Large flowered thimbleweed (13)
- O - Bellwort (1)
- P - Delphinium Poppy (7)
- Q - Downy Wood Pecker (5)
- R - Hairy Woodpecker (1)
- S - False rue (2)
- T - Sweet white violets (15)
- U - Jacobs ladder (5) <sup>OR</sup> Calico aster
- V - Wildginger (13) <sup>OR</sup> aster
- W - Sharp-lobed hepatica (23)
- X - Trout Lily (13) <sup>OR</sup> bloodroot
- Y - Wild geranium (5)
- Z - Sedge (3) <sup>OR</sup> Strawberry



## Raingarden Project Worksheet Cost Estimate

Landowner:  
Street Address:  
City, Zip:

**Water Conveyance (if needed)**

	Qty	Unit	Unit Cost	Amount
Downspout connector \$40				
Drain Tile or PVC Piping \$0.50/ft / #2/ft				
Critter Guard \$6				
Pop Up Emitter \$15				
River Rock Splash Area (at outlet of drain-tile pipe) \$5 (.5 cu ft.)				

Day creek bed

**WATER CONVEYANCE COSTS**

\$ 195

**Grading and Site Prep Related Materials**

	Qty	Unit	Unit Cost	Amount
Sod Cutter \$50/2 hr	1	hr	\$ 50	\$ 50
Rototiller \$80/4 hr		hr	\$	\$
Leaf-Compost/Soil Replacement for Raingarden (well-aged, weed-seed free)	1	cu yd	\$ 20	\$ 20
Delievery (Leaf-Compost) \$15-20/cu yard = 150 ft <sup>2</sup>		delivery	\$	\$
Edging (Type plastic + stones (where there is no retaining wall))		ft	\$	\$ 195
Edging Trencher \$50/2 hrs.	1	hr	\$ 50	\$ 50

**GRADING AND SITE-PREPARATION RELATED COSTS**

\$ 215

**Mulch**

	Qty	Unit	Unit Cost	Amount
Shredded Hardwood Mulch (2-3" depth) (entire planting area) (1 cy = 150 sq. ft.)	1	cu yd	\$ 30	\$ 30
Delivery (Wood Mulch) \$30/cu yard (150 ft <sup>2</sup> /3" deep)		load	\$	\$

**MULCH AND DELIVERY COSTS**

\$ 30

**Plant Materials (Plugs & Plots)**

	Qty	Unit	Unit Cost	Amount
Native Perennial Plugs (____" spacing) \$1-1.50		each	\$	\$
Native Perennial 3-4" Pots (____" spacing) \$3-10 shade	189		3	567
Cultivar Perennials (____" spacing)				
Other Plants (larger container size) Gallon	13	each	10	130
Native Shrubs (for ____ Soils) (____" spacing)		each	\$	\$
Delivery (Plants) \$20-36		delivery	\$	\$

Gallon \$8-10

**PLANT MATERIAL COSTS**

\$ 697

**OTHER COSTS**

(retaining wall, excavation equipment, erosion control blanket, etc.)

\$ 583.97

**Total Project Cost**

\$ 1,820.97

• Bullet → \$1.35/ft  
 • Plastic edging → \$0.75/ft  
 • Natural stone → \$1.95/ft  
 150 ft<sup>2</sup> → 60 linear feet of edging

Retaining wall:  
 \$5-35/brick  
 landscape rock (\$35-\$120/ton)  
 20-3

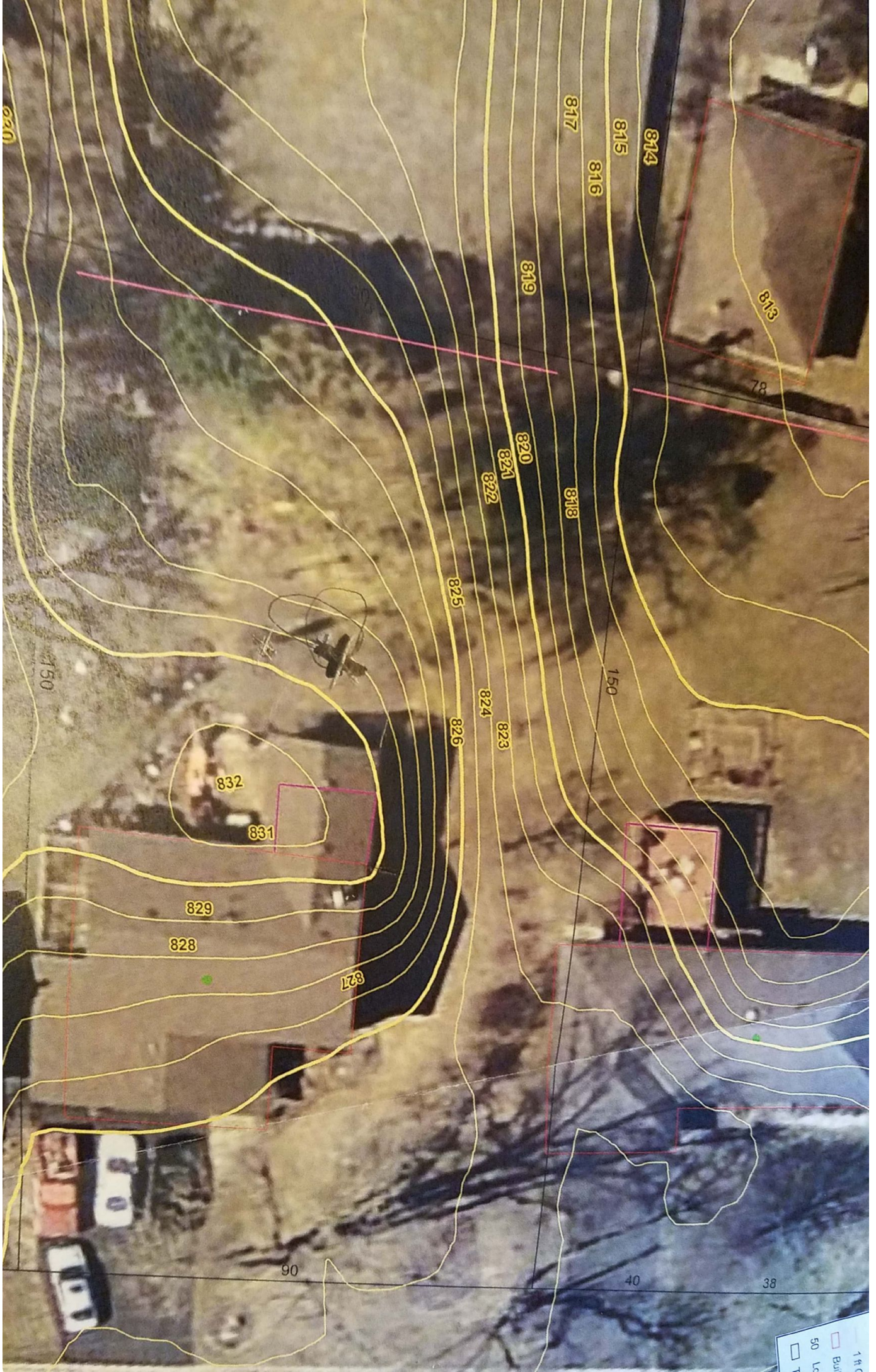
edging 6 (10' pcs.) × 7.50 45  
 stakes (25x16) → \$30  
 \$75

Retaining wall  
 bricks 119' × 4' → \$476.00  
 sand class 5 15.99  
 keystone 33.99  
 57.99  
 583.97

DCB  
 flagstone 1/3 ton \$165  
 river rock 30  
 \$195  
 rock edging (lower ridge) 30' → \$120  
 edging total \$175

estimate as we aren't positive on exact size yet



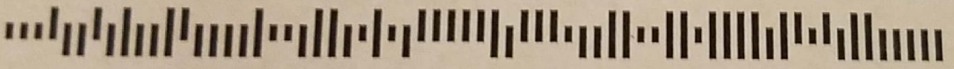
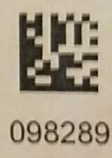




**Property ID:** 02-82203-02-020

**TAXPAYER(S):**

WILLIAM J GLASSEN  
ROBIN GALLIGHER GLASSEN  
1437 VALLEY DR  
BURNSVILLE MN 55337-2373



**Property Address:** 1437 VALLEY DR  
BURNSVILLE MN 55337

**Property Description:** VISTA VIEW 4TH ADDITION  
22

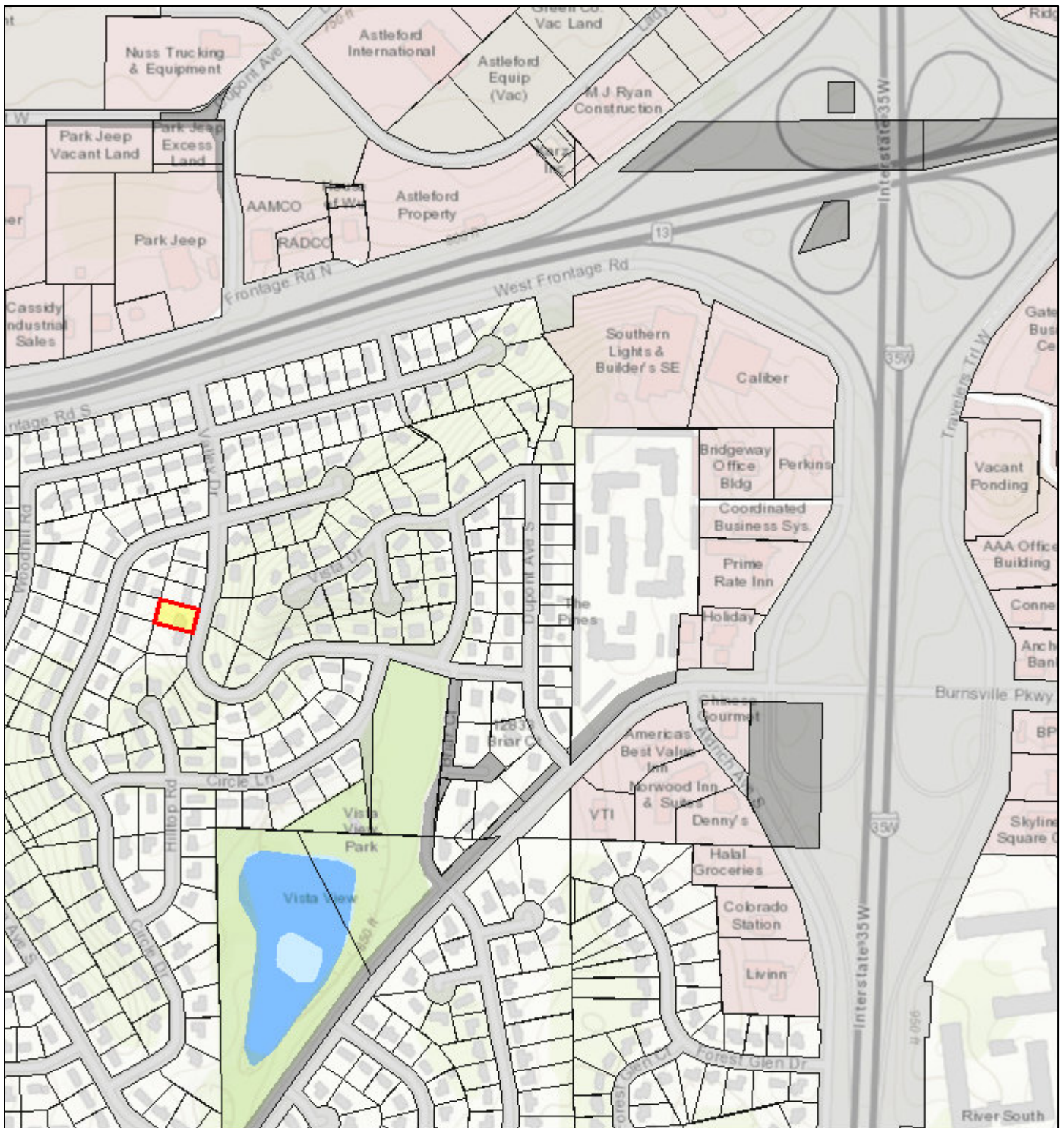
Estimate  
Home  
Other  
Taxable  
Property

Step  
2

Step  
3

7

# Property Map

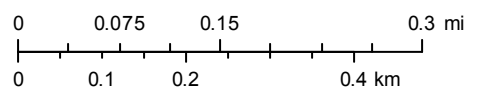


May 11, 2018

1:9,028

## Parcels

- Tax Parcel
- Dedicated Right of Way
- Water in Tax Parcel
- Right of Way Easement



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



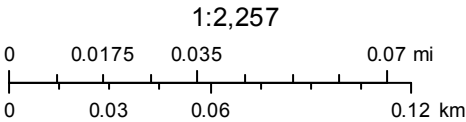
# Property Map



May 11, 2018

**Parcels**

 Dedicated Right of Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<b>Property Card</b>	Parcel ID Number 02-82203-02-020
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<b>Owner Information</b>
Fee Owner WILLIAM J GLASSEN ROBIN GALLIGHER GLASSEN
Mailing Address 1437 VALLEY DR  BURNSVILLE MN 55337-2373



<b>Property Address</b>
Address 1437 VALLEY DR
Municipality BURNSVILLE

Parcel Information	
Last Qualified Sale 05/31/2001	Total Acres 0.31
Sale Value \$169,900.00	R/W Acres
Uses RESIDENTIAL	Water Acres
	Plat VISTA VIEW 4TH ADDITION
	Lot and Block 2 2
	Tax Description

2018 Building Characteristics (payable 2019)*					
Building Type	S.FAM.RES	Year Built	1967	Bedrooms	3
Building Style	ONE STORY	Foundation Sq Ft	1,118	Bathrooms	1.00
Frame	WOOD	Above Grade Sq Ft	1,118	Garage Sq Ft	469
Multiple Buildings		Finished Sq Ft	1,508	Other Garage	DB TUC GAR

Miscellaneous Information					
School District	Watershed District	Homestead	Green Acres	Ag Preserve	Open Space
191	LOWER MINNESOTA RIVER	FULL HOMESTEAD			

Assessor Valuation		
	Taxable	Estimated
2018 Land Values (payable 2019)	\$58,690.00	\$62,900.00
2018 Building Values (payable 2019)*	\$162,727.00	\$174,400.00
2018 Total Values (payable 2019)*	\$221,417.00	\$237,300.00
2017 Total Values (payable 2018)*	\$197,328.00	\$215,200.00

Property Tax Information		
Net Tax (payable 2018)	Special Assessments (2018)	Total Tax & Assessments (2018)
\$2,592.02	\$0.00	\$2,592.02

\* Manufactured Homes Payable the Same Year as Assessment.

*Disclaimer:* Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for zoning verification.