



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, March 17, 2021

Agenda Item

Item 4. F. - Authorize payment for 2020 Cost Share project at 4419 West Old Shakopee Road

Prepared By

Linda Loomis, Administrator

Summary

This Cost Share Project, located in Bloomington, was approved by the Board at the March 2020 Board meeting. The property owner, Aaron Sullivan completed the project and is requesting reimbursement. The project was complete in August; however Mr. Sullivan did not submit all the information necessary for reimbursement until February 10th. Plant material was purchased from private individuals, which reduced the cost of the plant material. I inspected the project in August and all the plants indicated on the invoices were planted. Mr. Sullivan did stay in touch with the District between completion of the project and request for reimbursement.

Mr. Sullivan, the property owner has requested reimbursement in the amount of the approved application; \$1,240.50.

Attachments

Excerpt from March 18, 2020 Board meeting minutes approving project
Cost Share application
Cost Share Worksheet and receipts
Cost Share Final Report

Recommended Action

Motion to authorize reimbursement in the amount of \$1,240.50

The Board asked about the time commitment. Administrator Loomis said BWSR indicated that participation would include at least one meeting per month.

Attorney Kolb asked if the SWCDs would be included. Administrator Loomis said that LeSueur and Rice County SWCDs organized the initial meeting and indicated that they intend to use the 1W1P as the water plan for those counties. Attorney Kolb explained what he has observed in other areas that have gone through the 1W1P process. He said the plan development starts with an agreement between all the parties involved with a BWSR template. He said the District needs to be careful about the details of any agreement. Attorney Kolb said the LMRWD should adopt resolution of intent to plan in support of the grant application.

The Board asked if staff thought participation would be a benefit to the LMRWD. Administrator Loomis said that it would benefit the LMRWD to be involved and suggested monitoring what's going on if they are not involved. President Hartmann said the LMRWD should indicate interest in the process, but not appoint a representative yet. He also said the District should not appoint a single representative but work together to cover the meetings. Attorney Kolb suggested the Board adopt a Resolution and what the Resolution would say.

Manager Raby made a motion to adopt resolution 20-04 Expressing and Intent to Participate in One Watershed Planning and Supporting a Planning Grant Application. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby, the following voted against: None.

Administrator Loomis said there are different options for the boundaries of 1W1P planning areas. She shared maps of the suggested options with the board. She noted that the question of boundaries is one of the first questions that the planning group will need to answer.

D. Metropolitan Area Watershed Based Funding

Administrator Loomis reminded the Board of how funding was distributed under the pilot program for the Watershed Based Funding. BWSR has decided for the next round of funding to distribute money along major watersheds rather than by counties. The LMRWD is now in Minnesota River North and Minnesota River South. She noted that under the pilot program the money was distributed within the counties based on the population and tax base. BWSR has said that kind of allocation will not be accepted under the new program. Each allocation area will have to look at projects and then prioritize projects that receive funding.

President Hartmann made a motion to appoint Administrator Loomis as the representative to the Metropolitan Area Watershed Based Funding convene meetings. The motion was seconded by Manager Frey. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby, the following voted against: None.

E. 2020 Cost Share Application

Administrator Loomis said the District received an application under the LMRWD cost share program from a resident from Bloomington. She noted that the goals of the project fit the program guidelines. She showed the site plans which include several rain gardens. The amount requested is \$1,240.50. Manager Raby noted the plant costs are rough estimates and suggested putting in a maximum amount and require that invoices be submitted for plant materials. Administrator Loomis noted that receipts are always requested before funding is reimbursed.

Manager Raby made a motion to approve the Cost Share application in an amount not to exceed \$1,240.50. The motion was seconded by Manager Frey. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby, the following voted against: None.



LOWER MINNESOTA RIVER
WATERSHED DISTRICT

Cost share grant application 2020

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) Rain garden ___ 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):

Aaron Sullivan

Address (street, city and ZIP code):

- site: 4419 West Old Shakopee Rd, Bloomington, MN, 55437

Phone: 612-443-9102

Email address: malahan@gmail.com

Primary Contact (if different from above)

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

- mail to: Aaron Sullivan

Address (street, city and ZIP code):

8212 Quinn Rd Bloomington, MN, 55437

Phone: _____

Email address: _____

Project location

Address (street, city and ZIP code):

4419 West Old Shakopee Rd., Bloomington, MN, 55437

Property Identification Number (PID)

19-027-24-42-0026

Property Owners:

Aaron Sullivan

Project Summary

Title Rainwater sequestration native planting on high traffic intersection

Total Project Cost \$2,481

Grant amount requested \$1,240.50

Estimated start date May 15, 2020

Estimated completion date Oct 15, 2020

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

The neighborhood water drains to South Glen Playground, I believe.
It is visible on the location map

Project description:

Fifteen wildflower + two tree species, chosen for their outsized importance to wildlife, will be planted along a high-traffic street. The plantings will demonstrate a landscaping option which sequesters rain water, hosts wildlife, is carbon-positive, and is beautiful.

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 site contains a mixture of soils: in some areas poor, red soil, in other areas, good brown or black soil. Sun exposure varies between the different garden beds planned for, from shade to nearly full sun.

All of the planned beds were previously mown to 2" in height, retained very little rainwater, hosted very little wildlife, and were polluted by fertilizers, pesticides, herbicides, and possible gas spills.

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

- Educate the public
- Filter rainwater
- Eliminate runoff/sequester rainwater
- Benefit wildlife
- Demonstrate low-carbon/carbon-positive landscaping
- Reproduce itself by sending seeds + plant offsets to other places in the watershed
- Cool the hot urban environment via shade from 2'-60' plants and via evaporative cooling from the same.

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

Craigstad is an inexpensive + reliable source for native plants + labor.
Prairie Moon Nursery: stocks ca. 2,000 species of native plants, locally sourced in So. MN.
Reed; Elizabeth: suppliers of local native plants.
Caleb; Devlin: suppliers of labor. -> Phone numbers available upon request.

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

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

How does the project support the goals you checked?

1. The native plantings will sequester + filter rainwater; the larger plants can absorb large amounts of water during rainfall events.
2, 3, 4. The site is on a very busy street; on the opposite corner is a huge ornamental garden - these facts will draw the public's attention to a landscape which absorbs rainwater, benefits wildlife, and yet appears civilized with its single-species beds. Tours of the site will allow detailed elaboration on methods + benefits.

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	7,045.5 gal/year
Water infiltrated	uncertain gal/year
Phosphorus removed	uncertain lbs/year
Sediment removed	uncertain lbs/year
Land restored	366 sq. ft.

Based on
 $366 / 1,000 \times 550 \times 35 = 7045.5$
 366 = sq footage
 31" avg annual rainfall } 35" annual rain
 4" rain from 5d snow }
 This is the first time I've calculated water capture.
 I can't be certain how accurate the # is.

How will you share the project results with your community?

I will host garden tours for Wild Ones and other groups which promote native plantings and water-retaining landscaping. As flowers bloom in bright yellow, white, purple, and crimson, hopefully people will see the large yet orderly patches, each of just one species, and

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

Other projects would definitely result from this one. Each of the wildflowers in question reproduces easily, as does the pagoda dogwood, and it's already a part of the overall plan that their offspring should establish themselves in places

Evaluation

How will the project be monitored and evaluated?

The homeowner will monitor and maintain the plantings. It is anticipated that each species is being employed at a fitting location, but should any fail to thrive there, other species can replace them in their assigned bed.

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 Aaron Sullivan

Signature [Signature] Date 3-5-2020

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

(For questions, contact Linda Loomis at Naiad Consulting@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

Location Map

Google Maps

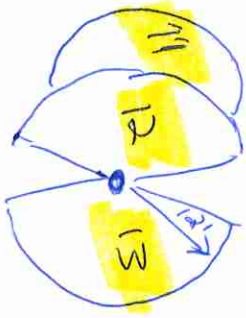
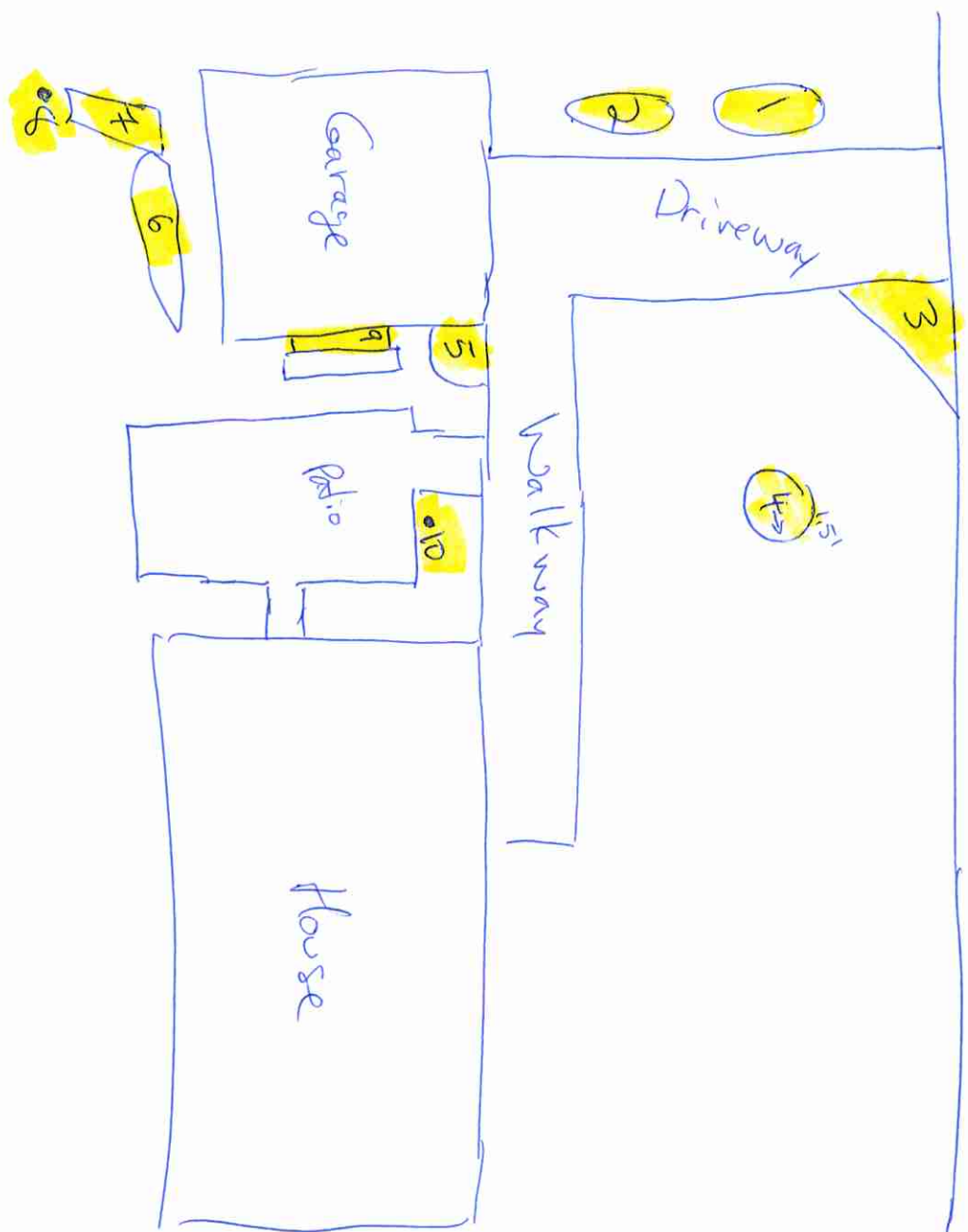


4419 West Old Shakopee Rd.

At the corner of West Old Shakopee Rd and Little Ave

Site Plan + Design Schematic

← Little Ave S →



Old Skatopee Rd →
Sidewalk

Plant List; Planting Locations for 4419 W. Old Shakopee Rd.

Species		Quantity	Location on Site Plan
Solomon's Seal	<i>polygonatum biflorum</i>	15	1
False Solomon's Seal	<i>smilacina racemosa</i>	15	2
or Starry False Solomon's Seal	<i>smilacina stellata</i>		
Bee Balm	<i>monarda didyma</i>	30	3
Anise-Hyssop	<i>agastache foeniculum</i>	10	4
Bergamot	<i>monarda fistulosa</i>	20	5
Cow Parsnip	<i>heracleum maximum</i>	30	6,9
Sweet Joe Pye Weed	<i>eupatorium purpureum</i>	15	7
Pagoda Dogwood	<i>cornus alternifolia</i>	1	8
Bur Oak	<i>quercus macrocarpa</i>	1	10
Cup Plant	<i>silphium perfoliatum</i>	15	11
Fiddlehead Fern	<i>matteuccia struthiopteris</i>	40	12,13
Cranesbill Geranium	<i>geranium maculatum</i>	96	14
Bigleaf Aster	<i>aster macrophyllum</i>	40	15
Sweet Black Eyed Susan	<i>rudbeckia subtomentosa</i>	10	16
Wild Senna	<i>senna hebecarpa</i>	10	17
Butterfly Weed	<i>asclepias tuberosa</i>	10	18
Narrow Leaved Mountain Mint	<i>pycnanthemum tenuifolium</i>	20	19

Notes on species:

Seventeen different species are to be planted, offering nectar in all seasons, as well as hosting caterpillars and providing shelter to insects.

The monarda species will draw hummingbirds to the yard, and the superlative charisma of those birds will encourage passers-by (of whom there will be many) to plant their own flowers.

Many species of butterfly are only able to reach maturity if there are specific species of plants available for them to munch on, as their larval stages are adapted to eat only that type of plant. We will host a variety of species.

Host species: Cow Parsnip -- Black swallowtail butterflies require plants in the wild carrot family as hosts.

Host species: Butterfly Weed -- Monarch butterflies require plants in the milkweed family as hosts.

Asters, Joe Pye weeds, cranesbill geraniums, black eyed Susans, milkweeds, and monardas are listed by Professor Douglas Tallamy as being among the most valuable forbs for butterflies. They are able to host 112, 42, 23, 17, 12, and 7 different species of lepidopterans respectively. The oak genus hosts a staggering 534 species.

https://enst.umd.edu/sites/enst.umd.edu/files/_docs/Table%201%20from%20Doug%20Tallamy%20Sheet1.pdf

Because the chicks of 96% of songbird species require insects as food to fledge, and because caterpillars represent the lion's share of of the meat they consume, the fact that these 17 species of plants can host a great range of lepidopteran species (moths and butterflies) is a great boon to the songbirds, whose numbers have fallen by roughly 50% in the last 50 years. (source: Douglas Tallamy's books and videos; also Carl Zimmer's 2019 article in the NY Times). A single chickadee chick requires over 9,000 caterpillars in order to reach maturity, for example.

Some Latin species names are being changed as genetic testing reveals more accurately the relations among species within a family or genus of plants. The names used above have been in common use for decades, and may not reflect the very latest newly assigned genus and species names.

Project Timeline; Itemized Budget for 4419 W. Old Shakopee Rd.

Project Timeline

Estimated Start Date: May 15, 2020

Estimated Completion Date: October 15, 2020

-If the ground thaws earlier, work can begin earlier.

-If all work can be completed in the spring, it will be; some plantings can be conducted in fall if need be.

-Turf grass will need to be eliminated and roots removed; soil will need to be amended in certain locations so as to create a water-retaining loam; plants must be planted and mulched.

Itemized Budget

48 hours' labor	\$576.00
378 plants from plant list:	\$1905.00
Total:	\$2481.00

Homeowner contribution: \$1240.50

Watershed District contribution: \$1240.50

Budget Notes

Plants and labor from Craigslist to be used in order to maximize 'the bang for the buck'.

Craigslist often offers native plants with more root and at lower prices than do nurseries.

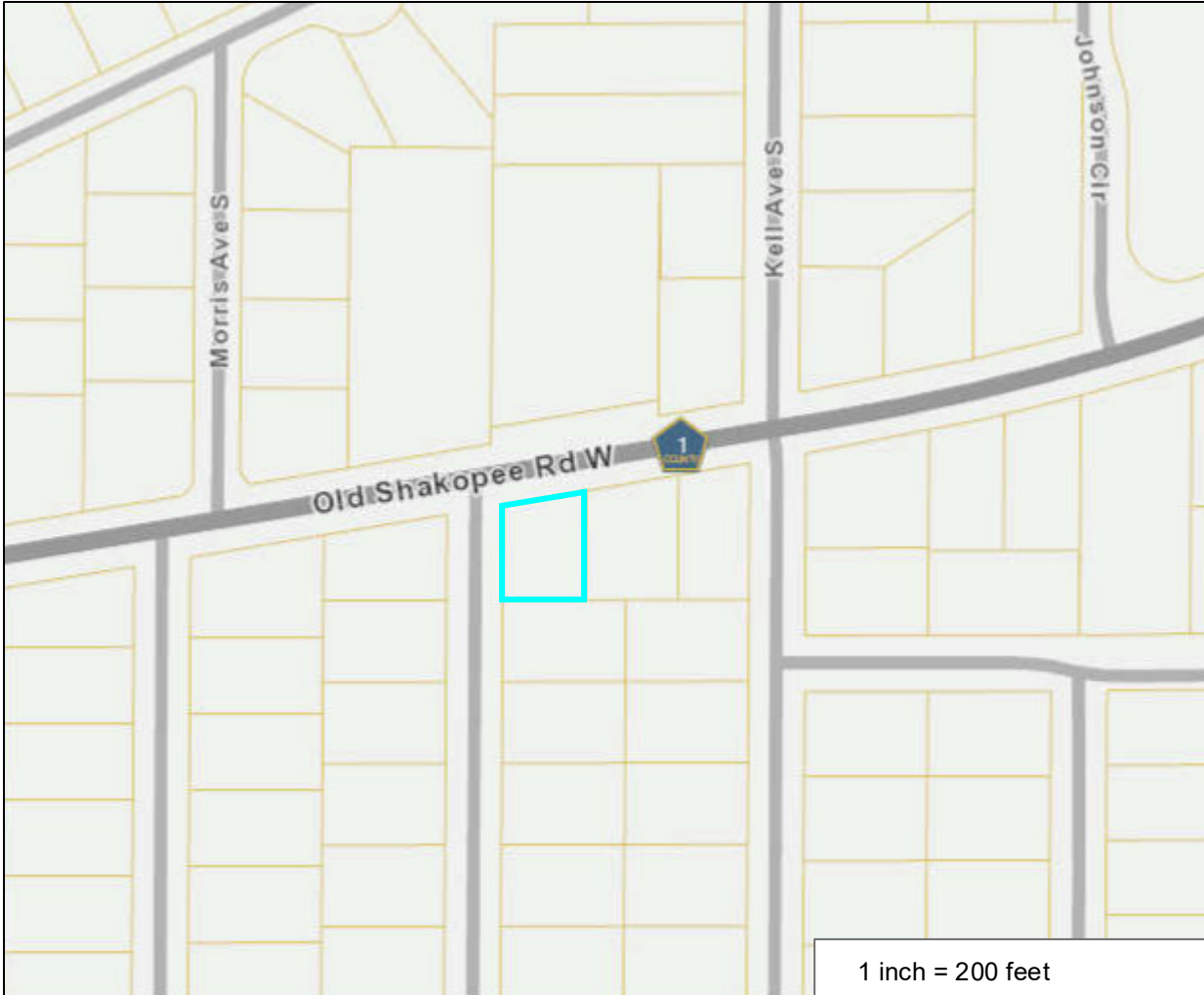
See Plant list for quantity and location of specific species; \$5 per plant is budgeted.

17 species of plants are to be used.



Hennepin County Property Map

Date: 3/11/2021



PARCEL ID: 1902724420026

OWNER NAME: Aaron M Sullivan

PARCEL ADDRESS: 4419 Old Shakopee Rd W,
Bloomington MN 55437

PARCEL AREA: 0.22 acres, 9,624 sq ft

A-T-B: Abstract

SALE PRICE: \$205,000

SALE DATA: 09/2016

SALE CODE: Warranty Deed

ASSESSED 2020, PAYABLE 2021
PROPERTY TYPE: Residential
HOMESTEAD: Non-Homestead
MARKET VALUE: \$229,900
TAX TOTAL: \$2,915.26

ASSESSED 2021, PAYABLE 2022
PROPERTY TYPE: Unavailable
HOMESTEAD: Unavailable
MARKET VALUE: Unavailable

Comments:

This data (i) is furnished 'AS IS' with no representation as to completeness or accuracy; (ii) is furnished with no warranty of any kind; and (iii) is not suitable for legal, engineering or surveying purposes. Hennepin County shall not be liable for any damage, injury or loss resulting from this data.

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COUNTY 2021

2020 Cost Share Worksheet

Labor Costs (Contractors, Consultants, In-Kind Labor)

Service Provider	Task	# Hours	Rate/Hour	Requested Funds from LMRWD	Matching/In-Kind Funds	Total
Property owner Aaron Sullivan	preparing and planting	48	\$ 12.00		\$ 576.00	\$ 576.00
Total:				\$ -	\$ 576.00	\$ 576.00

Project Materials

Material description	Unit Cost	Total # of Units	Requested funds from LMRWD	Matching/In-Kind Funds	Total
Bur Oak from Outback Nursery	\$ 21.45	1	\$ 21.45		\$ 21.45
Plant material from D. Johansson	\$ 5.00	231	\$ 589.05	\$ 664.50	\$ 1,253.55
Plant material from M. Kenneday	\$ 5.00	105	\$ 525.00		\$ 525.00
Plant material from E. Hamilton	\$ 5.00	21	\$ 105.00		\$ 105.00
					\$ -
		358			
Total:			\$ 1,240.50	\$ 664.50	\$ 1,905.00

Total Requested Funds from LMRWD*:	\$ 1,240.50 (A)
Total Matchin/In-Kind Funds:	\$ 1,240.50 (B)
Project Total:	\$ 2,481.00 (C)

*Please note: total requested funds (A) cannot be more than 50% of the Project Total (C)

Printed: 6/15/2020 1:22:44 PM
Store: 1
Workstation: 7

Sales Receipt #11203
6/15/2020
Cashier: Tor
Page

Customer Copy



Out Back Nursery, Inc.
15280 110th Street So. Hastings MN 55033
Ph: (651) 438-2771 Fax: (651) 438-3816
www.outbacknursery.com

Bill To:
Aaron Sullivan
8212 Quinn Rd
Bloomington, MN 55437

Description 1	Attribute	Size	Orig Price	Disc %	Type	Qty	Price	Ext Price	Tax
Roundleaf Dogwood	15-18"	02	\$28.00			1	\$28.00	\$28.00	T
Sweet Fern	15-18"	02	\$28.00			1	\$28.00	\$28.00	T
Bur Oak	3-4"	02	\$21.45			1	\$21.45	\$21.45	T
Glossy Black Chokeberry	15-18"	02	\$21.45			2	\$21.45	\$42.90	T
Bitternut Hickory	6-9"	01	\$16.45			1	\$16.45	\$16.45	T

Subtotal: \$136.80
Tax 7.13 % Tax + \$9.75
RECEIPT TOTAL: \$146.55

Credit Card: \$146.55 XXXX6556 Visa
Reference # 2000002327

Expiry Date: XX/XX Auth=06957D
Entry: Swiped Merchant #***29618

Signature _____
I agree to pay above amount according to card issuer
agreement (merchant agreement if credit voucher).

PLEASE RETAIN FOR YOUR RECORDS
It is an honor and a privilege to serve you.



11203



Linda Loomis <naiadconsulting@gmail.com>

(no subject)

1 message

Aaron Sullivan <amalahans@yahoo.de>
To: "naiadconsulting@gmail.com" <naiadconsulting@gmail.com>

Thu, Feb 25, 2021 at 2:27 PM

Linda,
This should be the last of my receipts from the 2020 planting at 4419 West Old Shakopee.
~Aaron

----- Weitergeleitete Nachricht -----
Von: D Johansson <octopusinkfoot@hotmail.com>
An: aaron sullivan <amalahans@yahoo.de>
Gesendet: Freitag, 12. Februar 2021, 19:39:29 GMT-6
Betreff:

Aaron,

Here's the other receipt from last spring.

15 Solomon Seal
40 Fiddlehead ferns - aren't ferns the best?
96 Cranesbill geraniums
40 Bigleaf aster
24 Cow parsnips
15 Sweet Joe pye weed
1 Pagoda dogwood - did you know that the dogwood is the state flower of Virginia?

231 @ \$5 per - \$1155.

Thanks again!
D



Linda Loomis <naiadconsulting@gmail.com>

Fw: Plant receipt

1 message

Aaron Sullivan <amalahans@yahoo.de>
To: Linda Loomis <naiadconsulting@gmail.com>

Wed, Feb 10, 2021 at 9:00 AM

Linda,
Here is a receipt from Michaela Kennedy.
I am forwarding you her email.
~Aaron

----- Weitergeleitete Nachricht -----

Von: michaela kennedy <michaela.humphrey@hotmail.com>
An: Aaron Sullivan <amalahans@yahoo.de>
Gesendet: Sonntag, 31. Januar 2021, 18:16:03 GMT-6
Betreff: Plant receipt

Hello Aaron,

Thank you for your business. Here is the receipt for your order.

30x Bee balm / monarda didyma
10x Anise Hyssop / agastache foeniculum
20x bergamot / monarda fistulosa
15x cup plant / silphium perfoliatum
10x sweet black eyed susan / rudbeckia
10x wild senna / senna hebecarpa
10x narrow leaved mountain mint / pycnanthemum tenuifolium

I hope to do business with you going forward. The total was \$525.00

Please let me know if there is anything I can assist you with further.

Thank you,

Get [Outlook for iOS](#)

January 28, 2021

To: Aaron Sullivan

From: Elizabeth Hamilton (Hamilton Gardens)

This document outlines the native plants you bought from me this past summer. All plants were \$5.00 per plant.

40 Sundrop (*Oenothera fruticosa*)

15 False Solomon's Seal (*Maianthemum racemosum*)

6 cow parsnip (*Heracleum maximum*)

Total plants sold-61

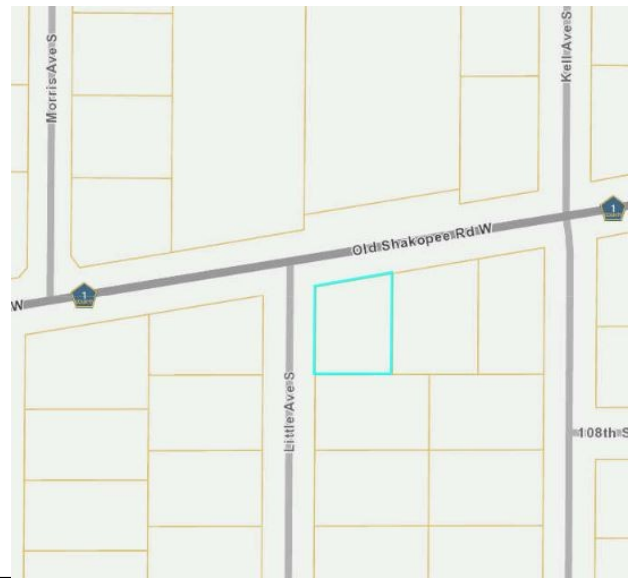
Total cost-\$305.00

Thank you for your business.

4419 West Old Shakopee Road - Sullivan 2020 Cost Share

Bloomington

Cost Share number 2020-CS-2



Project Status | Complete

The Board of Managers approved this project at the March 2020 meeting. This project consisted of multiple rain gardens on the property. Plots were situated at locations on the property that receive water from roof downspouts, sidewalks and the driveway.

The project completion date was completed in August of 2020.

Project Description

The Lower Minnesota River Watershed District received this application in early 2020. The Board approved the application at the March 2020 Board of Managers meeting. The property owner prepared multiple beds that be planted with native plants.

The beds were located near downspouts from the roof or in low spots in the yard. LMRWD staff inspected the project with the property owner in August. The project was completed in accordance with the plans submitted with the application. Some of the beds were shifted slightly from locations shown in the site drawing that was included as part of the application. The shifts were made to improve the amount of sunlight received..

The property owner did all of the work himself and used plants that he purchased from other gardeners. This reduced the cost of the plant material significantly. 358 plants were installed for this projects. All plants are native to the area and will attract pollinators.

LMRWD staff will visit the site again this summer.