

MEETING DATE: August 27th, 2015

TITLE: Authorization of Cost Share Funding- Diamond Lake Alleyway Initiative

RESOLUTION NUMBER: 15-073

PREPARED BY: Brett Eidem, Cost Share Specialist

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REVIEWED BY: Administrator Counsel Program Mgr. (Name): Telly Mamayek
 Board Committee Engineer Other

WORKSHOP ACTION:

| | |
|---|---|
| <input type="checkbox"/> Advance to Board mtg. Consent Agenda. | <input type="checkbox"/> Advance to Board meeting for discussion prior to action. |
| <input type="checkbox"/> Refer to a future workshop (date): _____ | <input type="checkbox"/> Refer to taskforce or committee (date): _____ |
| <input type="checkbox"/> Return to staff for additional work. | <input type="checkbox"/> No further action requested. |
| <input type="checkbox"/> Other (specify): _____ | |

PURPOSE or ACTION REQUESTED:

1. Authorize funding of 50 percent of the documented cost of the project, not to exceed \$16,295.63 from the Cost Share Fund, for the installation of stormwater BMPs on 9 properties, contingent on a signed grant agreement and signed maintenance agreements that include a landscape design plan that is mutually agreed upon by the grant recipient, property owners and District staff.
2. Authorize the Administrator to execute and sign a Cost Share funding agreement with Metro Blooms and execute maintenance agreements between the District and the owners of the property where the BMP's are installed.

PROJECT/PROGRAM LOCATION:

Block of Diamond Lake Neighborhood, Minneapolis (map attached)

PROJECT TIMELINE:

Summer/Fall 2015

PROJECT/PROGRAM COST:

Fund name and number:

Cost Share Grant Program (3130)

Current budget:

\$832,000

Amount approved in 2014 to date:

\$683,962.37

Requested amount of funding:

50% of the documented costs for construction of stormwater BMPs on 9 properties, not to exceed \$16,295.63

SUMMARY:

The Blooming Alleys program began in 2014 near Lake Nokomis with a demonstration installation funded partially by MCWD. Since then, the program has already spread to two additional neighborhoods, Diamond Lake, and Lynnhurst, primarily through word-of-mouth from participants and project partners. The Diamond Lake Blooming Alleys project was spear-headed by Friends of Diamond Lake and has involved innovative partnerships between Friends of Diamond Lake, Master Water Stewards, the MCWD, Metro Blooms, and citizens in and around the Diamond Lake Watershed. Cynthia Krieg funding from MCWD allowed them to develop these partnerships, complete an analysis of the Diamond Lake watershed, educate citizens, and engage target blocks (identified through the analysis and level of participation).

This funding request is for the installation of stormwater management practices on private property along one alleyway that is participating in the larger Diamond Lake Blooming Alleys project. This block's "Alley Captain," Tina Peterson, has been a crucial partner in the development of the larger project and has been engaging her neighbors since its inception. Metro Blooms held an Alley Party in her driveway in early May 2015 which 40 of her neighbors attended to learn more about the project. Metro Blooms has completed site consultations and stormwater management plans for 18 properties along this alleyway and 9 have chosen to pursue an installation this year. This very enthusiastic and involved block will be a demonstration for the Diamond Lake and Minnehaha Creek Watersheds. There are already four other blocks in the Diamond Lake Watershed pursuing similar projects. Alley Captains from a few of these blocks attended the Alley Party at Tina's and are excited to witness this demonstration installation and bring that experience back to their own alleyway. Local demonstrations are vital to this movement as they provide relevant, real-life examples of the ecological, social, and aesthetic functions these alleys can serve.

PROJECT DETAILS:

The goal of these projects is to transform alleyways into community spaces and pedestrian walkways with an ecological function. This will be done by working with residents to design and install stormwater management practices including raingardens, permeable pavement, and native plantings, which beautify the space while infiltrating stormwater runoff and creating native habitat. There is a focus on alleyways because the majority and most polluted runoff from a typical residential lot flows to the alleyway and once enhanced, they provide an ideal opportunity for community interaction. In addition to stormwater capture, the raingardens along this alleyway also help create a pollinator pathway connecting Diamond Lake to Minnehaha Creek.

The proposed alleyway projects will create only the second Blooming Alley in Minneapolis. It has been immensely helpful to have the demonstration alleyway by Lake Nokomis completed so residents are able to view real-life examples. A second demonstration near Diamond Lake is necessary as it's much more relevant to homes in this area and typical Blooming Alleys projects. Many of the properties in this area have deep lots and wide driveways. Additionally, this Blooming Alley relies solely on cost share funding from MCWD for installation, which means homeowners are contributing more financially.

Furthermore, a few of the houses on this demonstration block already have underground cisterns, rain barrels, and front yard raingardens which were installed through the Go Blue! project. The Diamond Lake Go Blue! project engaged early adopters to install stormwater best management practices on their properties. After seeing those projects installed and succeed, a second round of adopters is ready to take action through the Blooming Alleys project. This project builds on "Go Blue!" to creatively recruit and inspire residents throughout the watershed to implement stormwater BMPs. Once the alleyway practices are installed this block will be an ideal demonstration for the full-spectrum of stormwater best management practices.

WATER QUALITY BENEFIT:

Because of our focus on alleyways we analyzed the "alleyshed" of this block to determine how much total runoff flows to the alleyway as well as the alleyshed of individual properties. The stormwater management

plans show the full potential of practices that could be incorporated on participating properties to capture and infiltrate 100% of the runoff flowing to the alleyway. Each plan states which practice(s) the homeowner is interested in installing this year (which this application would help fund). While the plan focuses on the alleyshed we discuss entire site design at the onsite and a number of the properties have requested site designs for their entire yard. In addition, many of these properties already have front-yard raingardens that were installed through the Go Blue! Community Makeover project in 2010.

The analysis of the total alleyshed (attached) revealed that over 80,000 square feet of this block drains directly to the alleyway. This is only the runoff that naturally flows to the alleyway due to topography and does not include the typical design of garages and driveways to drain to the alleyway. Only taking into account the 80,000 square feet that drains naturally to the alley, in a 1" rain event, nearly 50,000 gallons of runoff are flowing down this one alley (about 1,490,000 gallons in a year). The proposed projects treat 86% of the impervious surface flowing to the alleyway from participating properties (12,300 sf), which is well over 50% of the total site runoff in most cases. They are able to treat this amount of stormwater due to the close proximity of projects. A number of the proposed practices overflow to neighboring practices creating a treatment train and enabling them to capture and infiltrate more stormwater than would be possible with a single stormwater BMP (ex: 5245-5241 Portland Ave S). Additionally, a few properties have impervious surfaces that flow directly to their neighbors proposed BMP, intercepting that runoff as well (ex: 5240-5236 Park Ave S). Lastly, another 9 properties along this block received stormwater management plans which they may choose to implement in the future.

EDUCATION AND OUTREACH:

The first outreach events in the community were Community Information meetings in March. More than 10 of Tina's neighbors from her block attended these initial information meetings. Because there were so many interested residents on her block already they decided to pursue a demonstration installation in 2015. The next step was to have an Alley Party at Tina's to answer questions for her neighbors and engage them in an interactive discussion and design charrette focused on their alleyway. Forty neighbors (including 4 neighbors from other blocks that were interested in the concept) attended the Alley Party to learn more about stormwater management and the project.

In addition to neighborhood leadership, there has been a number of other dedicated volunteers assist with this project. Two Master Water Stewards, Grace Sheely and Michelle Jordan, have been engaged in this project since the planning stage, attended the Alley Party at Tina's, and are currently working with one of the neighbors to install a raingarden. Friends of Diamond Lake initiated this project and have been instrumental in its success by assisting with planning, outreach, and education. Tina's daughter and her Girl Scout troop helped with outreach for the community information meeting by dropping postcards for their neighbors and neighboring blocks. Additionally, a number of Girl Scouts were at the Alley Party to assist us and attended site consultations to learn more about stormwater management. The Master Water Stewards, Girl Scouts, and volunteers from Friends of Diamond Lake may also assist with raingarden installation.

On a broader community scale, in spring 2015 Metro Blooms partnered with Peggy Knapp of the Freshwater Society to work through a collaborative planning process designed to incorporate community input in the development, design, installation, and follow-up of Blooming Alleys projects. In April 2015, there was a meeting to gather input from Alley Captains, Master Water Stewards, Master Gardeners, Landscape Designers, and community volunteers. Through this process Metro Blooms heard from project leaders that building the social fabric of the community and changing social norms around stormwater management were just as important to them as improving water quality and habitat. This input will be used for marketing and promoting these projects, creating resources, and designing projects.

This project leverages homeowner funds for the entirety of the cost share match. It leverages funding from the Cynthia Krieg Watershed Stewardship Fund for initial engagement and outreach. The Cynthia Krieg funding will be utilized once the installations are complete as well to assist with project promotion. Additionally, this project leverages ample social capital to engage neighbors and educate the broader community. Between Tina's time as an Alley Captain, her neighbors attending the Alley Party, Friends of Diamond Lake, Master Water Stewards, and the Girl Scouts, volunteers have already contributed nearly 400 hours to this project.

DESIGN, CONSTRUCTION, AND MATERIAL COSTS

The eligible cost from the project designer's estimate for the 9 property alleyway BMP installation comes to \$35,842.75. Staff has worked through the budget with Metro Blooms, and capped the funding amount for any one residential property to the homeowner cap of \$2,500. As a result, the staff recommendation is to fund 50% of the project, limited to \$2,500 for any one property. Staff and the CAC recommend 50% funding, not to exceed \$16,295.63. This would average out to about \$1,810 cost share funding on each property. (Cost Estimate Breakdown Attached)

STAFF RECOMMENDATION

Staff and the CAC recommends funding 50% of project, not to exceed \$16,295.63, contingent on a signed grant and maintenance agreement that is mutually agreed upon by the Cost Share recipients and District staff.

Attachments:

1. Aerial Site Plan
2. Subwatershed Drainage Map
3. Alleyway Design Plan
4. Cost Estimate Breakdown

RESOLUTION

RESOLUTION NUMBER: 15-073

TITLE: **Authorization of Cost Share Funding - Nokomis Alleyway Initiative**

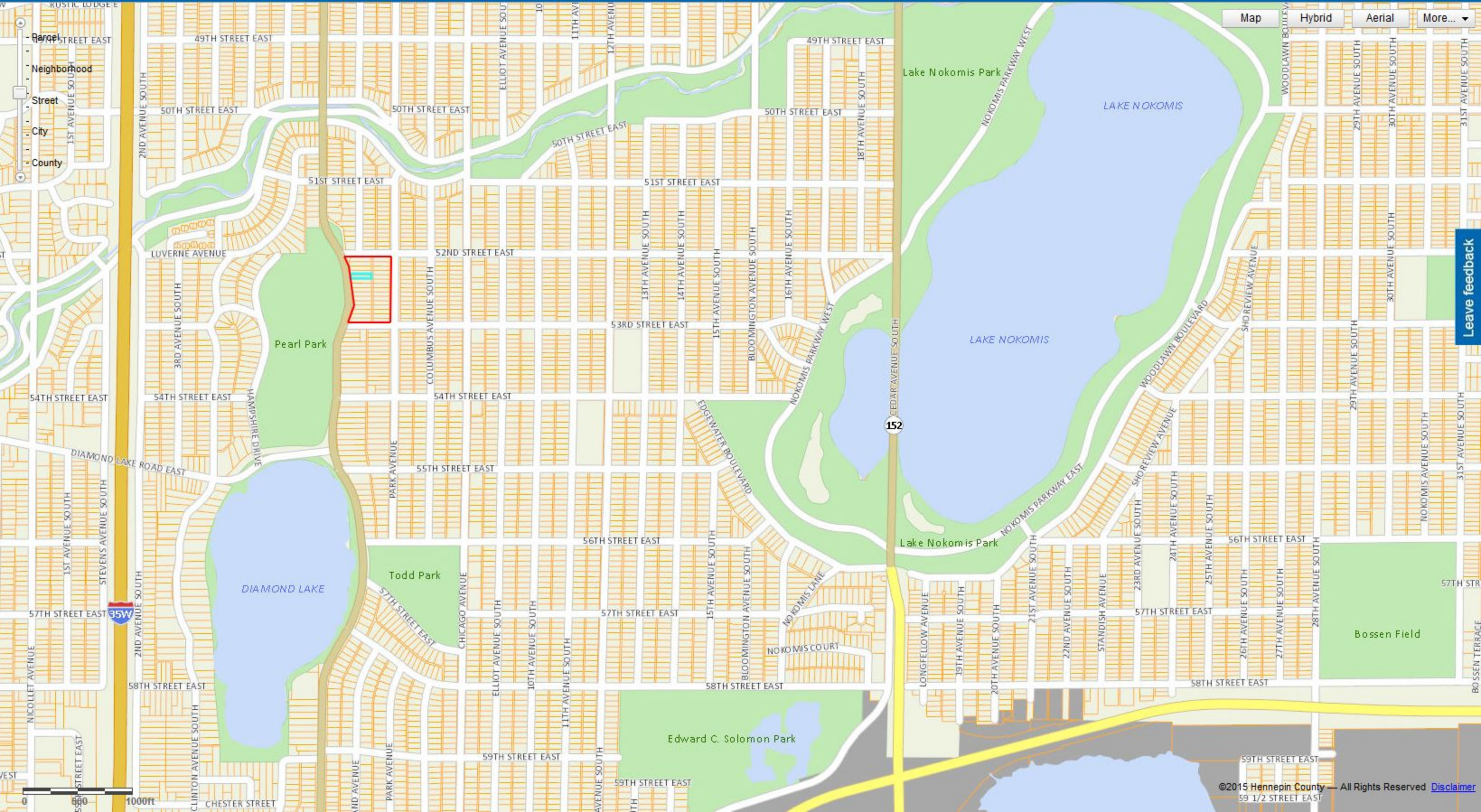
- WHEREAS, the Stormwater BMP Cost Share Program was established by the MCWD to provide grants to property owners to design and install best management practices that will reduce the volume and increase the quality of stormwater flowing offsite; and
- WHEREAS, Metro Blooms applied for cost share funding for a stormwater BMP alleyway retrofit on 9 residential properties to collect and infiltrate roof and driveway runoff, preventing it from reaching Diamond Lake, which is impaired for excess nutrients, and
- WHEREAS, funds are available in the 2015 budget for the Cost Share Grant Program; and
- WHEREAS, the grant proposal was reviewed by the Citizen Advisory Committee (CAC) on July 8, 2015, and the CAC made a recommendation to the Board to approve the proposal and provide funding in the amount requested; and
- WHEREAS, MCWD staff has reviewed the proposal and the CAC's recommendation, and finds the proposal to be consistent with the goals the Cost Share Program and recommends funding of \$16,295.63 from the Stormwater BMP Cost Share fund; and

NOW, THEREFORE, BE IT RESOLVED, that the MCWD Board of Managers authorizes the administrator to execute, on advice and consent of counsel, to sign a cost-share funding agreement with Metro Blooms, providing reimbursement funding of 50 percent of the documented costs for construction of stormwater BMPs on each of 9 properties, not to exceed 50 percent or \$2,500 for each property and a project total of \$16,295.63 from the Cost Share Program fund, contingent on a signed cost-share agreement with Metro Blooms and a signed maintenance agreement with each property owner that includes a final landscape design plan that is approved for Cost Share purposes by Metro Blooms, the property owners and District staff for each property.

Resolution Number 15-073 was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: _____.

Secretary Date: _____

**DRAFT for discussion purposes only and subject to Board action and the availability of funds.
Resolutions are not final until approved by the Board and signed by the Board Secretary.**

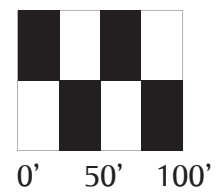
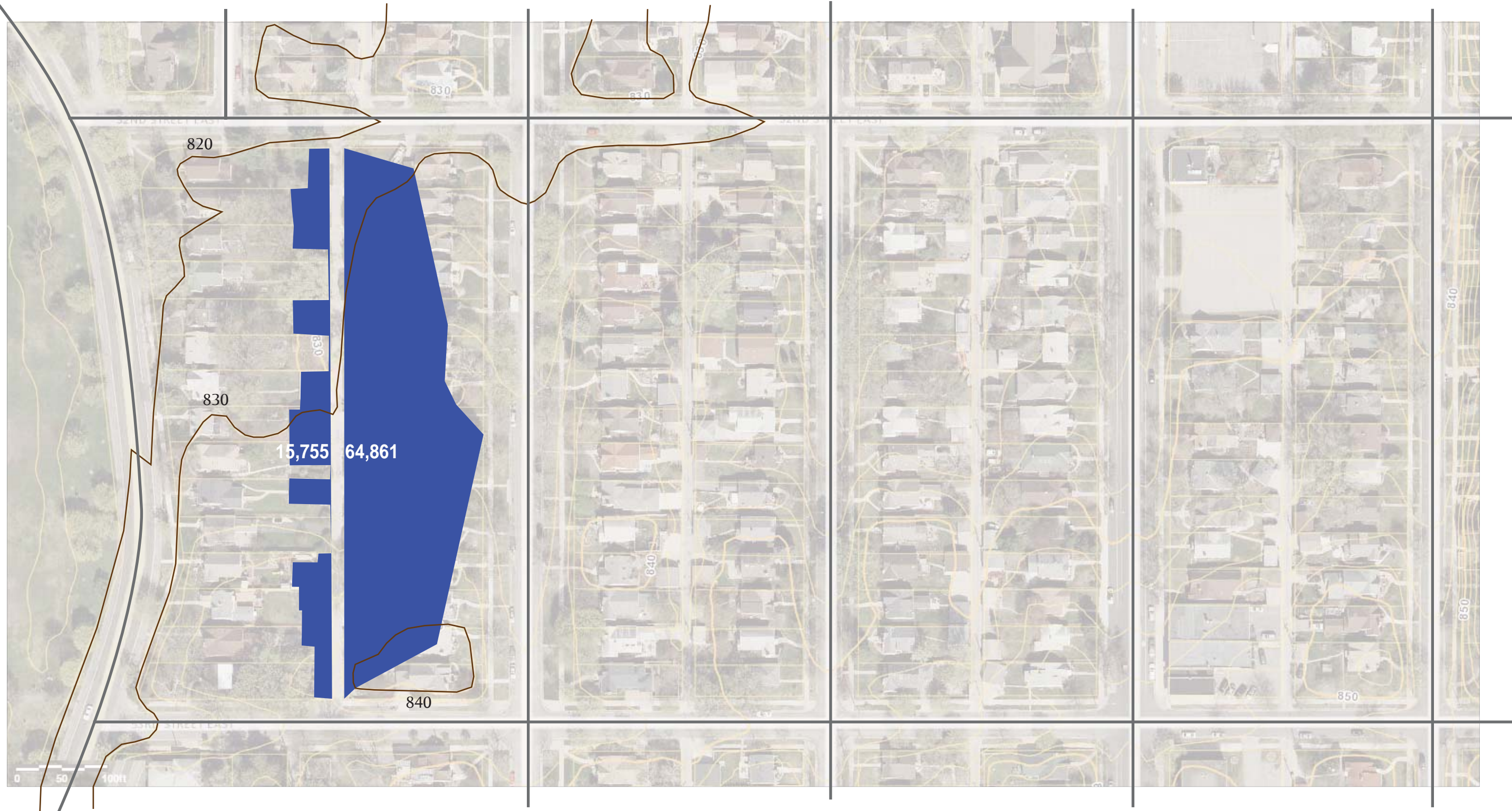


- Parcel
- Neighborhood
- Street
- City
- County

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Leave feedback

Map labels include: 49TH STREET EAST, 50TH STREET EAST, 51ST STREET EAST, 52ND STREET EAST, 53RD STREET EAST, 54TH STREET EAST, 55TH STREET EAST, 56TH STREET EAST, 57TH STREET EAST, 58TH STREET EAST, 59TH STREET EAST, 1ST AVENUE SOUTH, 2ND AVENUE SOUTH, 3RD AVENUE SOUTH, 4TH AVENUE SOUTH, 5TH AVENUE SOUTH, 6TH AVENUE SOUTH, 7TH AVENUE SOUTH, 8TH AVENUE SOUTH, 9TH AVENUE SOUTH, 10TH AVENUE SOUTH, 11TH AVENUE SOUTH, 12TH AVENUE SOUTH, 13TH AVENUE SOUTH, 14TH AVENUE SOUTH, 15TH AVENUE SOUTH, 16TH AVENUE SOUTH, 17TH AVENUE SOUTH, 18TH AVENUE SOUTH, 19TH AVENUE SOUTH, 20TH AVENUE SOUTH, 21ST AVENUE SOUTH, 22ND AVENUE SOUTH, 23RD AVENUE SOUTH, 24TH AVENUE SOUTH, 25TH AVENUE SOUTH, 26TH AVENUE SOUTH, 27TH AVENUE SOUTH, 28TH AVENUE SOUTH, 29TH AVENUE SOUTH, 30TH AVENUE SOUTH, 31ST AVENUE SOUTH, LIVERNE AVENUE, PARK AVENUE, CHICAGO AVENUE, EDGEMOUNT AVENUE, BLOOMINGTON AVENUE SOUTH, NOKOMIS PARKWAY WEST, NOKOMIS PARKWAY EAST, WOODLAWN BOULEVARD, SHOREVIEW AVENUE, STANDISH AVENUE, LONGFELLOW AVENUE, NICOLLET AVENUE, STEVENS AVENUE SOUTH, DIAMOND LAKE ROAD EAST, HAMPSHIRE DRIVE, COLUMBUS AVENUE SOUTH, EDgewater BOULEVARD, NOKOMIS COURT, NOKOMIS LANE, CEDAR AVENUE SOUTH, BOSSEN TERRACE, CHESTER STREET, CLINTON AVENUE SOUTH, PARK AVENUE, EDWARD C. SOLOMON PARK, PEARL PARK, TODD PARK, BOSSEN FIELD, LAKE NOKOMIS, DIAMOND LAKE, RUSTIC LODGE, and 35W.



**Diamond Lake Area
Sub-Watershed Analysis
South Minneapolis, MN**
Comprehensive Stormwater Drainage Map
prepared by: Metro Blooms



Blooming Alleys

Project Cost Estimate

ADDRESS: 52xx block between Park Ave S & Portland Ave S

PROJECT: Diamond Lake Blooming Alleys

| CONSTRUCTION MATERIALS & LABOR | | | | QTY | Unit | Unit Cost | Amount |
|---|--|--|--|------------|----------------------------|------------------|---------------------|
| Permeable Paver Sections | | | | 895 | sq ft | \$ 28.85 | \$ 25,820.75 |
| Raingardens | | | | 465 | sq ft | \$ 8.00 | \$ 3,720.00 |
| Native Plantings | | | | 66 | sq ft | \$ 7.00 | \$ 462.00 |
| Downspout Redirection | | | | 3 | properties | \$ 200.00 | \$ 600.00 |
| Materials & Labor Subtotal | | | | | | | \$ 30,602.75 |
| DESIGN, PROJECT MANAGEMENT, & CONSTRUCTION OVERSIGHT | | | | QTY | Unit | Unit Cost | Amount |
| Permeable Pavement Design/Oversight | | | | 8 | flat fee | \$ 215.00 | \$ 1,720.00 |
| Raingarden Design/Oversight | | | | 4 | flat fee (per 150 sq. ft.) | \$ 290.00 | \$ 1,160.00 |
| Native Planting Design/Oversight | | | | 1 | flat fee | \$ 200.00 | \$ 200.00 |
| Project Management | | | | 9 | flat fee/property | \$ 240.00 | \$ 2,160.00 |
| Design & Oversight Subtotal | | | | | | | \$ 5,240.00 |
| Project Total | | | | | | | \$35,842.75 |
| 50% Cost Share Funding | | | | | | | \$ 16,295.63 |

