

Minnehaha Creek Watershed District

REQUEST FOR BOARD ACTION

MEETING DATE: September 24th, 2015

TITLE: Authorization of Cost Share Funding- Shir Tikvah Synagogue Stormwater Management Retrofit

RESOLUTION NUMBER: 15-081

PREPARED BY: Brett Eidem, Cost Share Grant Administrator

E-MAIL: beidem@minnehahacreek.org

TELEPHONE: 952-641-4523

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

WORKSHOP ACTION:

<input checked="" 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 \$10,731.50 from the Cost Share Fund, for the installation of 6 stormwater BMPs, 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 and District staff.
2. Authorize the Administrator to execute and sign a Cost Share funding and maintenance agreement between Shir Tikvah and the District.

PROJECT/PROGRAM LOCATION:

1360 West Minnehaha Parkway, Minneapolis (map attached)

PROJECT TIMELINE:

Fall 2015

PROJECT/PROGRAM COST:

Fund name and number:

Cost Share Grant Program (4005)

Current budget:

\$832,000

Amount approved in 2015 to date:

\$700,258

Requested amount of funding:

50% of the documented costs for construction of 6 stormwater BMPs, not to exceed \$10,731.50.

PROJECT DETAILS:

The project consists of:

- Removal of existing turf grass and redirection of stormwater through 4 raingardens and prairie plantings throughout the property
- Installation of 2 rainwater cisterns to capture and re-use roof runoff to water vegetable garden
- Education curriculum and outreach events developed by current Master Water Stewards that will be incorporated into sustainable studies at the Synagogue
- Stormwater Management as part of the congregation sustainable movement, “Gan Tikvah, or Garden of Hope”

ESTIMATED WATER QUALITY BENEFITS

- Annual Volume Reduction
 - 130,600 gallons/year
- Annual Total Suspended Solids Reduction
 - 948 lbs/year
- Annual Total Phosphorus Reduction
 - 0.4 lbs/year

(These estimated reductions have been calculated by Wenck Associates Pollution Reduction Calculator for stormwater BMP's.)

SUMMARY:

Shir Tikvah seeks funding to install several rain gardens and a rainwater collection cistern as part of a comprehensive plan to transform their grounds into a model of sustainable land use. The total project which they are calling “Gan Tikvah,” or “Garden of Hope” will further our sustainability efforts while having a direct environmental impact and engaging congregants in volunteering. The project offers the opportunity to educate our members and the broader community about our role in promoting healthy waterways and ecosystems. Site design will be completed by Field Outdoor Spaces. The project proposes a rain cistern will reduce runoff and provide a sustainable source of water for our vegetable garden and fruit trees. It also includes four raingardens that will capture runoff and provide habitat for wildlife, including pollinators. The Gan Tikvah project will have a positive impact on the health of Minnehaha Creek, which flows just yards from the grounds. The project captures a large amount of the site’s impervious runoff, with existing overflow drains that currently connect to the city storm sewer system. With larger perennial gardens, they will also be dramatically reducing the amount of sod and further promoting infiltration of runoff and expanding pollinator habitat. They will also be including vegetable gardens, grape vines through lattices, and other sustainable practices throughout the building like energy efficiency techniques.

DESIGN, CONSTRUCTION, AND MATERIAL COSTS

The total cost of the project is \$38,363. They are also receiving a \$10,000 Gendler Grapevine Grant to help with implementation. They are requesting funding for design, 2 rainbarrels, materials and labor for 4 raingardens as they pertain to the stormwater management of the site, which comes to \$21,463. Staff recommends funding the project at 50%, not to exceed \$10,731.50.

STAFF RECOMMENDATION

Staff and the CAC reviewed the project through the community engagement evaluation criteria, and is recommending funding of 50% of the project, not to exceed \$10,731.50, 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. Education and Outreach Techniques
3. Cost Estimate Breakdown
4. Site Design Plans
5. Cost Share Evaluation Review

RESOLUTION

RESOLUTION NUMBER: 15-081

TITLE: Cost Share Funding for Shir Tikvah Synagogue Stormwater Management Project

WHEREAS, the 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 provide support for beyond-regulation projects that protect and improve water resources; and

WHEREAS, the District's 2007 Comprehensive Water Resources Management plan also identifies expanding the knowledge base of water resources management and providing education opportunities through demonstrative projects within the watershed as key functions of the Cost Share Program; and

WHEREAS, funds are available in the 2015 budget for the Cost Share Grant Program; and

WHEREAS, Shir Tikvah applied for cost share funding for 6 stormwater BMP projects to collect and infiltrate runoff from impervious surfaces onsite, and

WHEREAS, on August 12, 2015, the grant proposal was reviewed by the Citizen's Advisory Committee (CAC) 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 \$10,731.50 from the Cost Share fund; and

NOW, THEREFORE, BE IT RESOLVED, that the MCWD Board of Managers authorizes the administrator, on advice and consent of counsel, to sign a cost-share funding agreement with Shir Tikvah, providing reimbursement funding of 50 percent of the documented costs for construction of stormwater BMPs, not to exceed a project total of \$10,731.50 from the Cost Share Program fund, contingent on a signed maintenance agreement with Shir Tikvah that includes a final landscape design plan and educational signage that is approved for Cost Share purposes by the property owners and District staff.

Resolution Number 15-081 was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: _____.

Secretary Date: _____



Welcome

Results

Links

- [Tax information](#)
- [View oblique imagery \(Bing maps\)](#)
- [Survey documents](#)
- [View natural resource information](#)
- [About the data](#)

PID: 1602824420069

1360 Minnehaha Pkwy W
Minneapolis, MN 55419

Owner/Taxpayer

Owner: Shir Tikvah

Taxpayer: SHIR TIKVAH
5000 GIRARD AVE S
MPLS MN 55419

Tax District

School Dist: 001

Sewer Dist:

Watershed Dist: 3

Tax Parcel

Parcel Area: 0.68 acres
29,417 sq ft

Torrens/Abstract: Torrens

Addition: Minnehaha Blvd Addn
To Mpls

Lot:

Block: 002

Metes & Bounds:

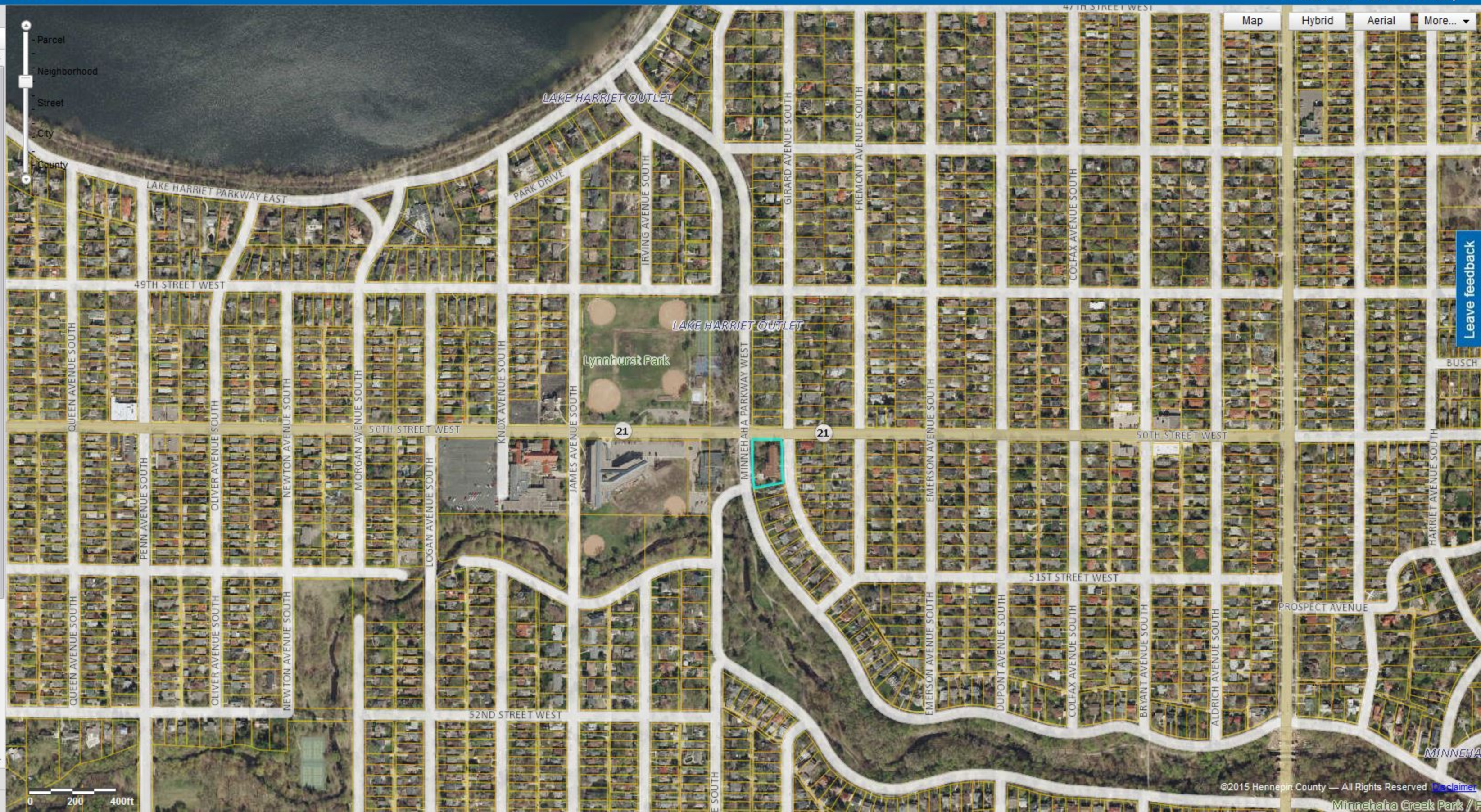
Com At Ne Cor Of Blk
2 Th S Along E Line
Thereof 200 Ft Th Wly
To A Pt On W Line Of
Said Blk Dis 228 Ft
Sly Along Same From
Nw Cor Of Said Blk Th
**Note: This Is A Partial
Metes & Bounds
Description.**

Tax Data (Payable 2015)

Market Value: \$0

Legend

Measure



Leave feedback

CONTACT INFORMATION

Property Owner Name: Shir Tikvah; John Humleker, Synagogue Administrator

Project Location Address: 1360 West Minnehaha Parkway, Mpls., MN 55419

Organization: Synagogue

Phone: 612-822-1440

Email: office@shirtikvah.net

How have you heard about the program: Jill Bjorklund is a member of our Climate Change MInyan, and she mentioned the opportunity to us. Also, Zoe Nicholie is a member of the Climate Change Minyan and also on the Board of Minnesota Interfaith Power and Light. There she met Caitlin Olson, an intern, who is one of the Minnehaha Creek Watershed District Water Stewards. She also mentioned the program to us.

PROJECT NARRATIVE: (Why do you want to do this project and what has led you to this point?)

Thank you for the opportunity to apply for a cost share project grant from the Minnehaha Creek Watershed District. Shir Tikvah seeks funding to install several rain gardens and a rainwater collection cistern as part of a comprehensive plan to transform our grounds into a model of sustainable land use. The total project--which we are calling "Gan Tikvah," or "Garden of Hope"--will further our sustainability efforts while having a direct environmental impact and engaging congregants in volunteering. The project offers the opportunity to educate our members and the broader community about our role in promoting healthy waterways and ecosystems.

The origin of the Gan Tikvah project lies with our Climate Change Minyan, a new committee of our established Tikkun Olam Working Group. The Torah commands us to engage in tikkun olam, or repair of the world. Shir Tikvah has always made tikkun olam a part of its tradition, and the Climate Change Minyan is our response to the need for all to act to change the trajectory of climate chaos. In the past year the Minyan developed a climate change action plan for the synagogue and members. Projects accomplished include installing LED lights in our building, installing a solar-powered Ner Tamid, or Eternal Flame, a sanctuary light that burns continuously, according to Jewish tradition. We have recycling bins in all classrooms and halls, and have recently begun organic recycling. We did a comprehensive energy audit with EnerChange and did a religious school project focused on energy conservation. We have begun to include climate justice in several of our religious holy days, most recently Tu b'Shevat, a festival of the trees. Several of our high school youth attended MnIPL's Youth be the Spark event on climate change, and we started a book club which just finished reading Naomi Klein's book "*This Changes Everything*." When we heard about this project, we saw this as an excellent opportunity to create a more sustainable ecosystem surrounding the synagogue building and an excellent environment for promoting healthy waterways and sustainability to congregants and neighbors.

BENEFITS OF THE PROJECT AS THEY PERTAIN TO THE COST SHARE EVALUATION CRITERIA:

Site design will be completed by Field Outdoor Spaces, a current partner in managing our grounds. Field Outdoor Spaces has experience designing sustainable landscaping and is a partner in the Blue Thumb program, which encourages homeowners and organizations to use rain gardens and native plants to reduce runoff from their yards and improve water quality. With their expert consulting, we will ensure that:

- A rain cistern will reduce runoff and provide a sustainable source of water for our vegetable garden and fruit trees.
- Rain gardens will capture runoff and provide habitat for wildlife, including pollinators.
- The Gan Tikvah project will have a positive impact on the health of Minnehaha Creek, which flows just yards from our grounds.

Does the project capture greater than 50% of the site runoff? Yes. Currently the project is designed to capture 55% of the storm water area on site. The relevant numbers can be found on the attached grading plan.

Does it reduce flow, promote infiltration, and reduce erosion? Yes. The rain gardens are designed to accomplish all of these goals. The natural topography of the site will be supplemented with rain gardens to store water from both overland runoff and impervious surfaces (mostly roof area). Sediments will settle and/or be interrupted on-site before continuing down the watershed. Abundant vegetation in and around the rain gardens contribute to reduced flow, a more absorptive landscape (meaning less water will leave the site in general as plants uptake a higher percentage) and reduced erosion.

Does it create habitat and promote pollinator plants? Yes. This is a prime driver of the project. The vast majority of the plantings are native and all are pollinator friendly. The planting list can be cross-referenced with resources from both The Xerces Society and the Minnesota DNR for confirmation. (<http://www.xerces.org/pollinator-conservation/plant-lists/> , http://beelab.umn.edu/prod/groups/cfans/@pub/@cfans/@bees/documents/article/cfans_article_451478.pdf) Phase 2 will introduce further diversity of pollinator plantings with the mixed meadow along the north entrance (on 50th St) and the additional flowering fruit trees and shrubs.

Does the site design show a detailed breakdown of BMP's and correlating removals of each? Yes. BMP's refer to Best Management Practices. The two plans show the extent of the rain gardens, elevations, plantings, rain barrel and downspout locations, drainage direction of existing topography, proposed swales and dry creek beds that will aid in sediment and erosion control. The grading plan also includes the relevant numbers and a basic soil analysis indicating the soil is very suitable for rapid infiltration and rain garden implementation. One of the sectional drawings refers to a standard rain garden installation that will be applied as suitable on site. The

second sectional drawing shows an example of this application with a site specific drawing of the east rain garden, it's relevant elevations, and overflow outlet.

Can we say this project is an innovative use of storm water BMP's, have multi-functionality, a re-use system? Yes. Our design aims to leverage existing site topography and characteristics to maximize your investment and the environmental impact of the project. The project is multi-functional in that it will both provide hydrologic benefits such as reduced erosion, sediment loading, and higher infiltration, as well as the habitat pollinator benefits mentioned above. I would also highlight the future incorporation of the vegetable gardens and orchards into this system through the use of cisterns, thereby producing food on site while watering with site-captured water.

Detailed Maintenance Plan and Schedule: A basic maintenance plan would include bi-weekly visits for weeding and removal of debris that accumulates within the rain garden basins. It would also include seasonal clean-ups and plant cutbacks in fall and spring. These tasks will promote long-term plant health, pollinator viability, and ensure continued infiltration efficiency within the rain garden basins.

At Shir Tikvah, we are fortunate to have an engaged base of volunteers whom we plan to appeal to for help in maintaining the rain gardens and watering the vegetable gardens and fruit trees with water collected in our rain barrels. It will be important to engage youth through Sunday school curriculum and bar and bat mitzvah preparations; Senior Rabbi Michael Latz has expressed his willingness to promote project work to bar and bat mitzvah students, confirmation students and youth groups. Our adult lifelong learning offerings, which change according to the Jewish calendar, may also include ecological topics. And one of the best ways to reach congregants is by incorporating messaging related to Gan Tikvah and its positive impact into worship services and celebrations around Jewish holidays, many of which can be tied to environmental stewardship. We anticipate using each of these channels for volunteer recruitment as well as publicity.

We will also continue to nurture the relationships developed with neighbors and community that will be established as a part of the Water Stewards Capstone Project. In addition, we have included long term maintenance as a part of our budget. The Climate Change Minyan will continue to encourage congregants to donate to the Tikkun Olam Fund as well as volunteering for the Gan Tikvah rain garden and grounds maintenance.

[See attachments from Field Outdoor Spaces for detailed project description and design:]
Attachment A: Scope of Work; B: Rain gardens site plans; C. Grading Plan; D. Rain Garden Sections.

DESCRIBE PLANNED/PROPOSED OUTREACH TECHNIQUES AND HOW COMMUNITY CAPACITY WILL BE BUILT:

Influence within Community: The Climate Change Minyan will be taking primary responsibility for executing education and outreach efforts and will work collaboratively with our two Rabbis, synagogue staff, and our two Water Stewards. The project will engage congregants and neighbors of all ages in meaningful volunteer opportunities, and we hope will inspire our neighbors in Minneapolis, as well as the Twin Cities' Jewish community, to take similar action. Proximity to Minnehaha Creek will help congregants and the public make the connection between individual and community actions and the health of our watershed.

Shir Tikvah is located across the street from Lynnhurst Park and Recreation Center, and just a block away from Mount Olivet Lutheran Church, which offers us a good opportunity to invite participation in this project. Within our own religious school we'll have opportunities to develop and use classroom curriculum around water quality education. We also are close to several Minneapolis Public Schools and can invite their participation in using our rain gardens as a place for field trips to learn about Minnehaha Creek, water quality, and how we protect our water through stormwater mitigation and other efforts. We plan on advertising our project through Minneapolis Interfaith Power and Light which gives us many local congregations through which to develop collaborations on educational opportunities. We will also promote the project to other local synagogues and invite their participation.

Outreach Techniques: We are fortunate to have the services of two Minnehaha Creek Watershed District and Freshwater Society Water Stewards: Caitlin Olson and Patrick Sommers to help us do outreach and build community capacity. As Master Water Stewards in training, they are required to complete a Capstone Project, and have chosen Shir Tikvah as their project. The Capstone project consists of the following elements:

1. Neighborhood Observations and Assessment
2. Community Education and Outreach Campaign
 - a. Identify a Behavior & Define Audience
 - b. Understand Barriers and Benefits
 - c. Develop and Implement your Strategy
 - d. Measure Behavior Change
1. Stormwater Management Project
2. Reflection and Presentation

The two Water Stewards will support and assist in the planning of the rainscaping and surrounding landscaping project, organize and oversee volunteers for the installation of rain gardens, organize a celebration event/campaign as part of the community outreach and engagement requirement, and support volunteer efforts for the upkeep and maintenance of the installations.

For the volunteer efforts, in addition to working with Shir Tikvah congregants, the Water Stewards have access to previous Master Water Stewards (MWS) who have a 50 hour/year volunteering requirement to maintain their MWS Status, as well as fellow MN GreenCorps

Members and contacts within the neighborhood who are willing to assist in neighborhood organization.

Garden maintenance is currently performed by Harvest Moon Edible Landscapes with help from Shir Tikvah volunteers, including our 5th-grade Sunday school students, whose teachers are Climate Change Minyan members Jill Bjorklund and Josh Sweet. This year we plan to engage students in the 6th to 10th grade classes, as well as adult congregants, not only with the planting, gardening and harvesting in our garden, but also in the installation and maintenance of our rain gardens. This will spread word of the project - and its benefits to our community and the environment - among even more families.

Visibility: We plan to make our 'Gan Tikvah', Garden of Hope, very visible through well placed informational signage about the rain gardens and the connection to a healthy Minnehaha Creek water ecosystem. Signage will be placed at the busy intersection of 50th and Minnehaha Parkway, as well as near the gardens with good visibility to the public.

Shir Tikvah's communications tools include our website, weekly e-newsletter, Facebook page, and announcements included at the end of every worship service, as well as flyers distributed around our building. We also plan to write and send press releases about the project to the local Jewish and neighborhood press, as was recently done for the installation of our solar-powered Eternal Light. Furthermore, Shir Tikvah is prominently located on a busy intersection close to the popular recreational trails along Minnehaha Creek and across the street from Lynnhurst Park and Recreation Center. Our location means that the proposed improvements to our grounds will have a built-in audience among the broader Twin Cities community. Also, the Climate Change Minyan's connections to Jewish Community Action (JCA), Minnesota Interfaith Power and Light, and 350.org, will provide a ready means of disseminating information about our efforts and the importance of stewarding the Minnehaha Creek Watershed.

Additionally, we hope to apply for "Cool Congregation" status from the national organization Interfaith Power and Light, which recognizes communities of faith that take positive steps to reduce their impact on the climate. We intend to apply in the category of "Sacred Grounds Stewards" after undertaking actions to include installing a rain cistern, installing rain gardens, replacing lawn with native prairie grasses, expanding our existing onsite vegetable garden, and adding fruit trees and beehives. If we are successful in our application to Interfaith Power and Light, our project will gain national recognition.

Funding received from the Minnehaha Creek Watershed District will be recognized through our existing publicity channels, as described above, as well as our collaborations with interfaith allies, Alliance for Sustainability, MN Center for Energy and Environment, and the Master Water Stewards program. We will highlight the Minnehaha Creek Watershed District's Cost Share program during our milestone celebrations of progress.

With help from our two Water Steward interns, we plan to hold a festive community celebration, with an education and outreach component, on September 27th, 2015 upon completion of the rain gardens. The event will highlight our connection to the creek and the watershed district and will tie into the end of the shmita year. We will coordinate with Shir Tikvah's day of service, also scheduled for that day, and have a rain garden project to be offered as one of the service projects. We will invite community members, the collaborating organizations listed above, and interested groups such as MCWD, Freshwater Society, Minnesota GreenCorps interns, Master Gardeners, local CERTs and others. The celebration will include food, outreach materials, posters, door prize and party materials that will be funded through a \$500 budget of the two Water Stewards.

Leveraging other funding: Funding to establish the Gan Tikvah project has been secured from several sources:

- \$10,000 from the Caryl Barnett Visionary Fund, a restricted fund at Shir Tikvah, including \$1500 for maintenance over the next three years.
- An individual congregant has committed \$1500 to support beehive installation and maintenance.
- Shir Tikvah received a \$10,000 grant toward costs associated with Gan Tikvah from the Gendler Grapevine Project in recognition of our commitment to sustainability.

Reporting:

With the help of our two Water Stewards we will be designing an evaluation report that will describe outreach techniques uses, and number of people educated and engaged on the project. We will also describe how the project and outreach may have initiated other efforts on improving water quality and awareness. The project will implement recordkeeping methods to monitor involvement and outcomes. An inspection report will be completed as required by MCWD.

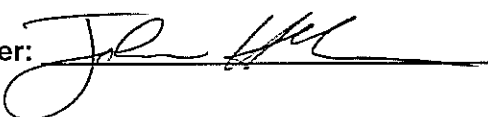
PUBLIC OUTREACH: Would you allow a small sign to be placed near the project? Yes, educational signage is an important element in our project.

PERMITTING: Does this project require a Minnehaha Creek Watershed District Permit?
No

AUTHORIZATION:

I certify to the best of my knowledge and belief that the information contained in this application is true, complete and accurate.

Name of Property Owner: JOHN HULLER Date: JULY 21, 2015

Signature of Property Owner: 

Proposed Budget for Gan Tikvah – Garden of Hope Project, Phase One
 Minnehaha Creek Watershed District Grant
 July 15, 2015

INCOME

Gendler Grapevine Grant	\$ 5,366	Received
Minnehaha Creek	\$16,097	Requested
TOTAL	\$21,463	

EXPENSES

Site design and consulting from Field Outdoor Spaces	\$1,500	
Rain Barrels (2) (details Below	\$ 925	
Demolition (details below)	\$ 3,725	
Labor Installation of 4 rain gardens (east and west sides of building)	\$ 3,808	
Plants and materials for installation of 4 rain gardens	\$11,005	
Publicity/signage	\$ 500	
TOTAL:	\$21,463	

Application to Minnehaha Creek Watershed District-

from Shir Tikvah Congregation, July 7, 2015

Budget for Gan Tikvah - Garden of Hope Project, Phases one and Two
July 15, 2015

INCOME

Source	Amount	Status
Gendler Grapevine Grant	\$10,000	Received
Minnehaha Creek Watershed District Grant	\$16,097	Requested
Carol Barnett Vision Fund (established in memory of a Shir Tikvah congregant for program and limited capital expenses)	\$10,000	Received
Congregant funding for beehive installation and maintenance	\$1,500	Committed
Additional Congregant Donations	\$766	Pending
Total	\$38,363	

EXPENSES (Bold is Phase One)

Description of item	Cost
Site design and consulting from Field Outdoor Spaces, including plan for landscaping, rain garden, expansion of garden, addition of orchard and beehives	\$1,500
Rain Barrels (2) (details Below	\$925
Demolition (details below)	\$3725

Application to Minnehaha Creek Watershed District-

from Shir Tikvah Congregation, July 7, 2015

Labor Installation of 4 rain gardens (east and west sides of building)	\$3808
Plants and materials for installation of 4 rain gardens	\$11,005
Publicity/signage	\$500.00
Native landscaping along 50 th St (by Field Outdoor Spaces with congregant assistance)- PHASE TWO- Spring 2016 labor and plants	\$12,400
Supplies and materials for expansion of garden, including orchard (to be completed by Harvest Moon Edible Landscapes and Shir Tikvah volunteers) PHASE TWO- Spring 2016	\$3,000
Beehive installation and maintenance for 3 years PHASE TWO- Spring 2016	\$1,500
Total	\$38,363

Application to Minnehaha Creek Watershed District-

from Shir Tikvah
Congregation, July 7, 2015

Estimate

Demolition and Preparation

Sod Removal	2200	sq. ft
New Bed Excavation	2500	sq. ft
Concrete Removal	0	sq. ft
Rock Mulch Removal	0	sq. ft
Depth Rock Mulch	0	inches
Medium Shrubs to Remove	4	ea.

Number	Size	Type	Price	Price Total
<i>The amount of debris disposal is difficult to estimate, changes to the estimated amount will be charged by the yard as follows.</i>				
30	yd	Sod and Soil Disposal	\$25.00	\$750.00
2	ea	Tree Removal	\$400.00	\$800.00
1.5	yd	Brush Disposal	\$25.00	\$37.50
0.5	yd	Garbage/Recycling	\$50.00	\$25.00
TOTAL MATERIAL COST				\$1,612.50
TOTAL LABOR COST				\$2,112.00
DEMOLITION AND PREP TOTAL				\$3,724.50

General Landscaping

Planting Bed Square ft. =	4550	sq. ft
English Garden Edging linear ft. =	255	ft.
Steppers linear ft. =	0	ft.
Inches compost	2	in.
Inches mulch	3	in.
B&B Plants	2	
Shrubs	38	
Perennials	551	

Number	Size	Type	Price	Price Total
25	yd	Farmpost	\$57.54	\$1,438.50
3	ea.	Compost delivery	\$160.00	\$480.00
42	yd	Hardwood Mulch	\$35.62	\$1,496.04
3	ea.	Mulch delivery	\$160.00	\$480.00
1	100ft.	4" Perf/Non-Perf Drain tile	\$68.50	\$68.50
4	ea.	Misc Fittings	\$28.76	\$115.03
2	ea.	12" Catchbasin	\$75.35	\$150.70
1	ea.	PLANTS (See Attachment)	\$6,476.03	\$6,476.03
2	ea	Delivery	\$150.00	\$300.00
TOTAL COST				\$11,004.79
TOTAL LABOR COST				\$3,808.00
BED PREP AND PLANTINGS TOTAL				\$14,812.79

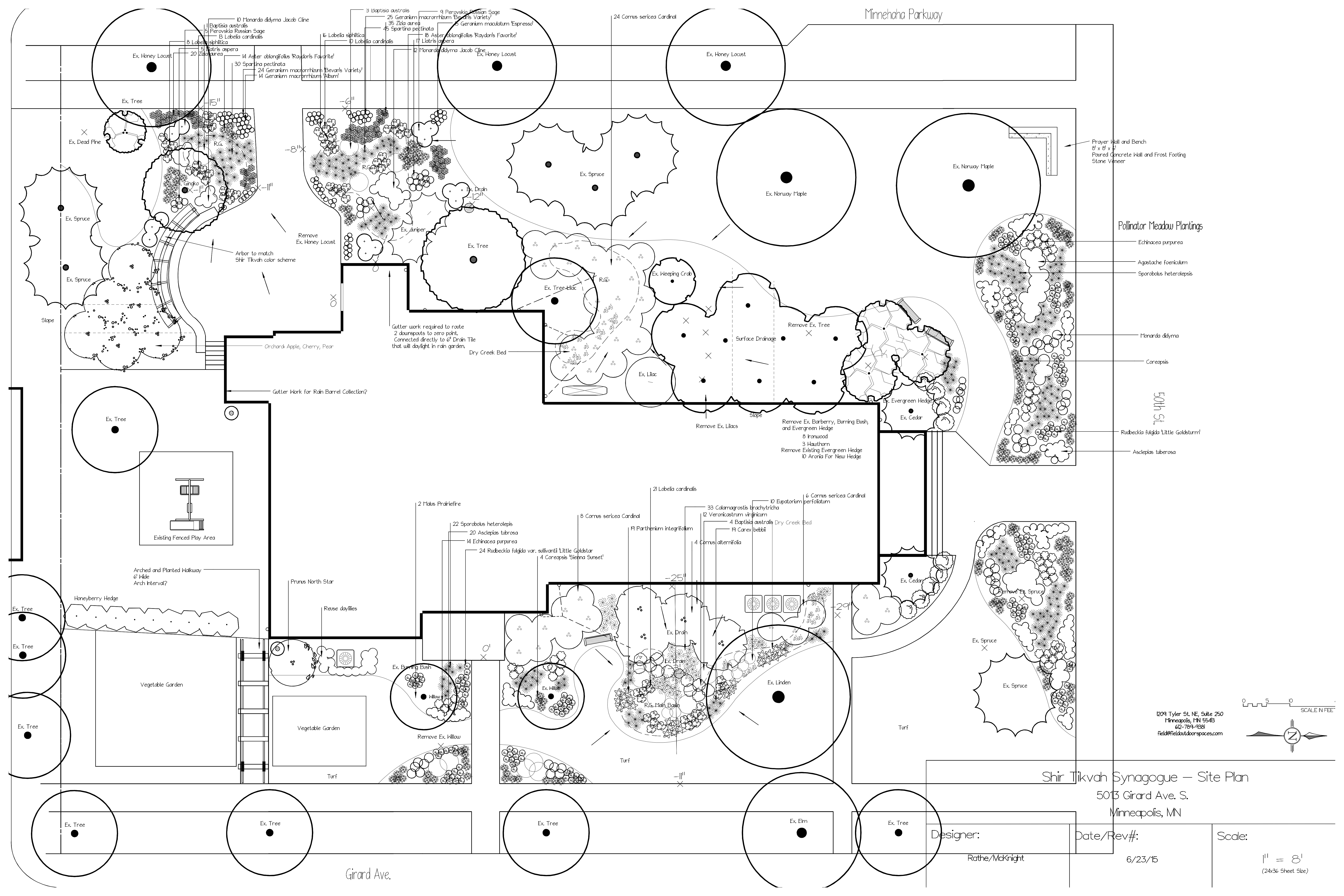
Accessories

Number	Size	Type	Price	Price Total
2	ea.	Wine Rain Barrel	\$308.25	\$616.50
8	ea.	Miscellaneous Gutter Parts (may not match existing downspout color)	\$5.48	\$43.84
TOTAL COST				\$660.34
TOTAL LABOR COST				\$265.00
Accessories TOTAL				\$925.34

GRAND TOTAL	\$19,462.63
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Quantity	Size	Botanical Name	Unit Price	Total Price
16	#1	Asclepias tubrosa	\$9.75	\$156.00
24	#1	Aster oblongifolius 'Raydon's Favorite'	\$8.25	\$198.00
8	#1	Baptisia australis	\$8.25	\$66.00
25	#2	Calamagrostis brachytricha	\$26.99	\$674.63
16	#1	Carex bebbii	\$9.38	\$150.00
4	#1	Coreopsis 'Sienna Sunset'	\$9.38	\$37.50
4	#20 TF	Cornus alternifolia	\$163.50	\$654.00
30	#5	Cornus sericea Cardinal	\$30.00	\$900.00
14	#1	Echinacea purpurea	\$8.25	\$115.50
10	#1	Eupatorium perfoliatum	\$9.38	\$93.75
14	#1	Geranium macrorrhizum 'Album'	\$9.00	\$126.00
30	#1	Geranium macrorrhizum 'Bevan's Variety'	\$10.13	\$303.75
12	#1	Geranium maculatum 'Espresso'	\$9.75	\$117.00
18	#1	Liatris aspera	\$9.38	\$168.75
34	#1	Lobelia cardinalis	\$9.38	\$318.75
20	#1	Lobelia siphilitica	\$8.25	\$165.00
18	#1	Monarda didyma Jacob Cline	\$9.00	\$162.00
15	#1	Parthenium integrifolium	\$9.38	\$140.63
12	#2	Perovskia Russian Sage	\$12.00	\$144.00
18	#1	Rudbeckia fulgida var. sullivantii 'Little Goldstar	\$11.85	\$213.30
55	#1	Spartina pectinata	\$9.38	\$515.63
16	#1	Sporobolus heterolepis	\$10.35	\$165.60
12	#1	Veronicastrum virginicum	\$9.38	\$112.50
30	#1	Zizia aurea	\$9.38	\$281.25
1	#7	Prunus 'North Star'	\$79.50	\$79.50
2	1.5" BB	Malus Prairiefire	\$208.50	\$417.00

Total:	\$6,476.03
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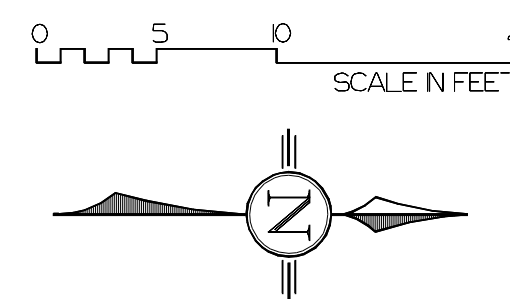


Minnehaha Parkway

Pollinator Meadow Plantings

- Echinacea purpurea
- Agastache foeniculum
- Sporobolus heterolepis
- Monarda didyma
- Coreopsis
- 50th St.
- Rudbeckia fulgida 'Little Goldsturm'
- Asclepias tuberosa

1209 Tyler St. NE, Suite 250
 Minneapolis, MN 55418
 612-784-4381
 field@fieldoutdoorspaces.com



Shir Tikvah Synagogue – Site Plan
 5013 Girard Ave. S.
 Minneapolis, MN

Designer:

Date/Rev#:

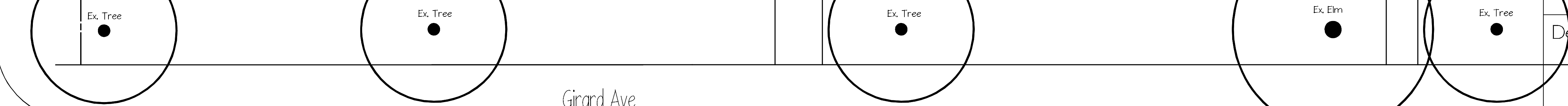
Scale:

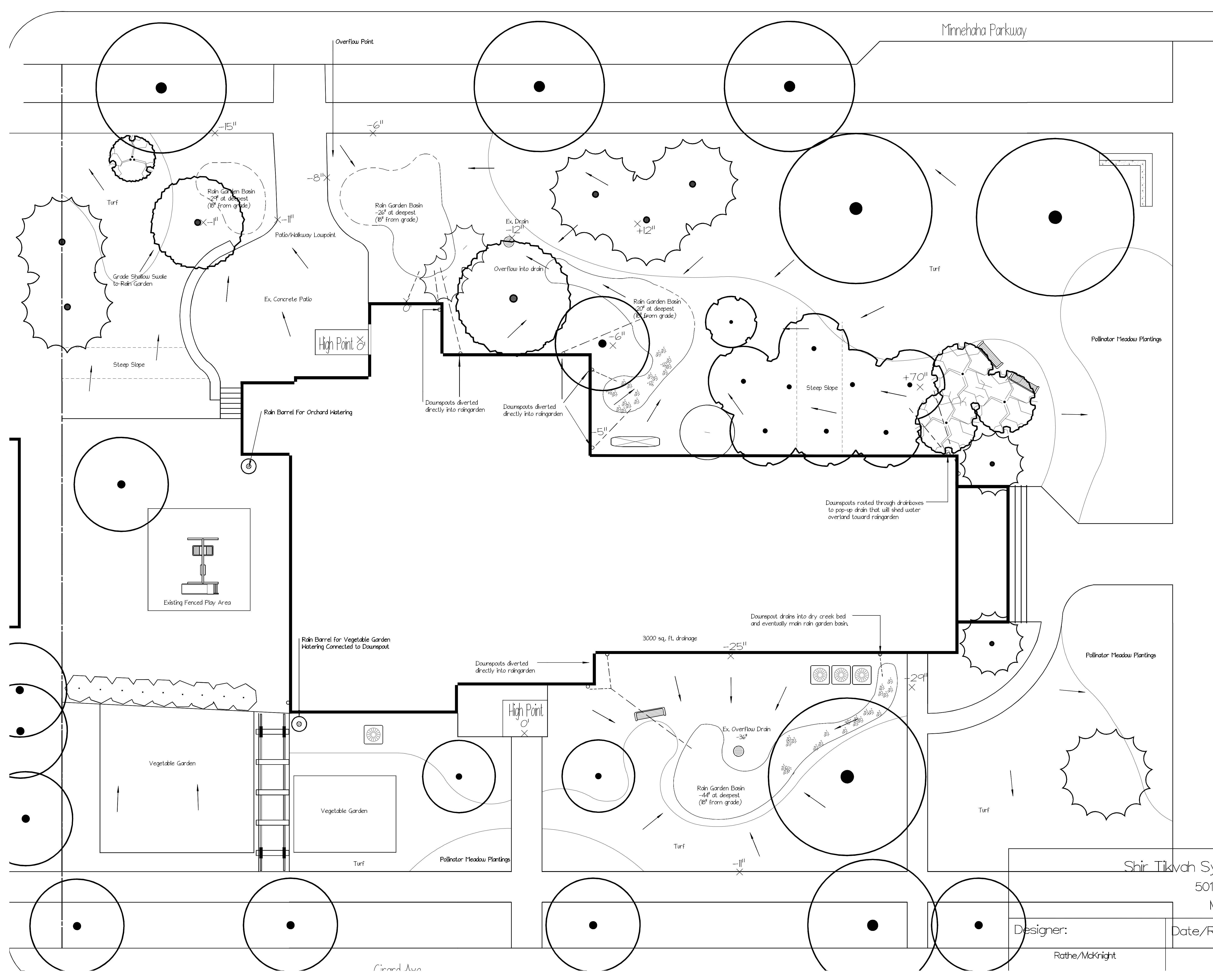
Rathe/McKnight

6/23/15

1" = 8'
 (24x36 Sheet Size)

Girard Ave.



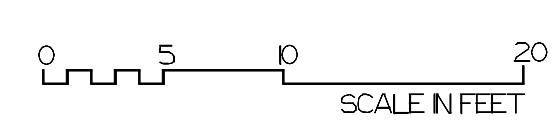


Soil on site is organic rich sandy loam. Drains at well over one inch per hour when soil is saturated. No amendments are necessary to increase percolation rates. The only soil amendments will consist of additional compost.

50th St.

Total Rain Garden Area: 1175 sq. ft.
 Total Bed Area: 5,065 sq. ft.
 Total Impervious Area Diverted to Rain Gardens and Rain Barrels: 8,000 sq. ft.
 Total Pervious Drainage Area: 9,455 sq. ft.
 Total Area Drained: 17,455 sq. ft.
 Total Site Area: 31,465 sq. ft.
 Percentage of Runoff Captured: 55

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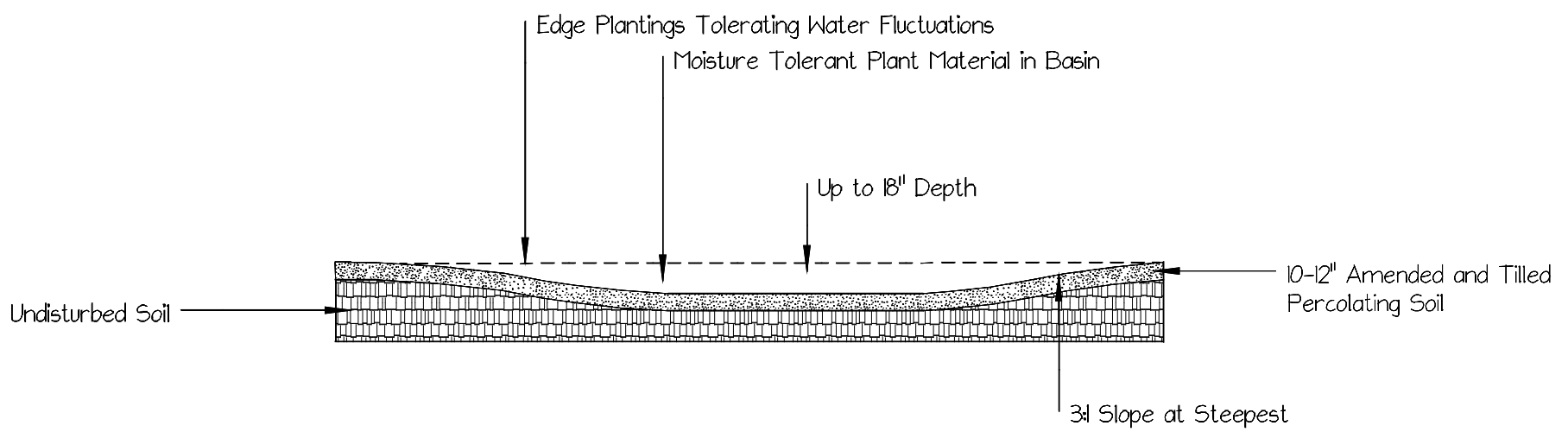


Shir Tikvah Synagogue — Grading Plan
 5013 Girard Ave. S.
 Minneapolis, MN

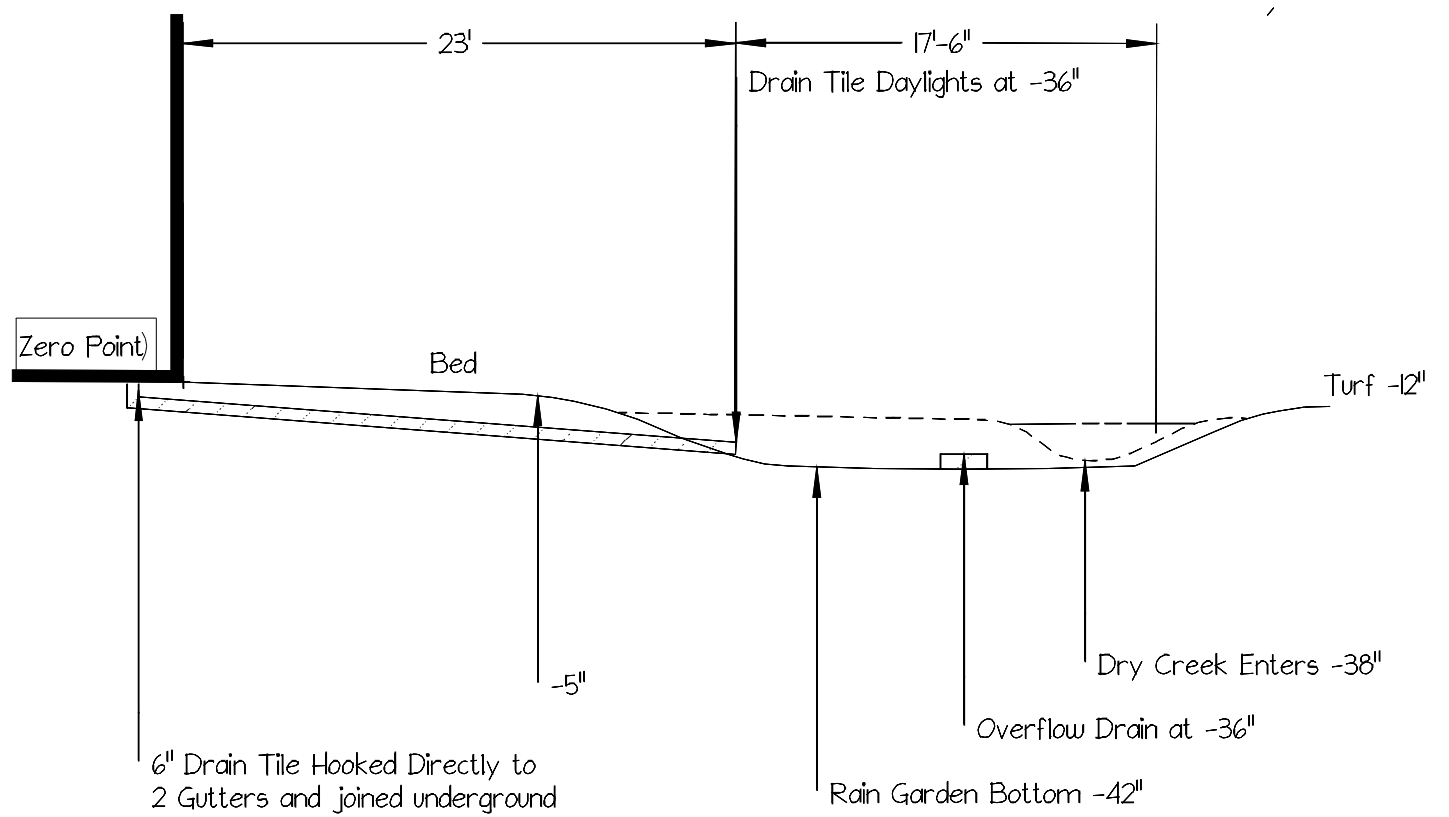
Designer: Rathe/McKnight	Date/Rev#: 06/23/15	Scale: 1" = 8' (24x36 Sheet Size)
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Shir Tikvah Rain Gardens

Standard Rain Garden Section



East Rain Garden Section





Landscape Contract

Shir Tikvah Synagogue
5013 Girard Avenue S.
Minneapolis, MN
Phone Number 1
Phone Number 2

1209 Tyler St. N.E., Ste. 250
Minneapolis, MN 55413
field@fieldinc.net
612.789.9381

Please read the entire contract as it describes conditions of sale, customer responsibilities and other information

This contract encompasses a unique plan and estimate created for customer named above. The contract with the client includes this contract, as well as the plan provided to the client (if applicable) and the full estimate.

Insurance

Field maintains general liability, property damage and workman compensation insurance. Field is happy to provide a certificate of insurance on request.

Change Orders

Field strives to foresee any challenges we may encounter, however surprises do happen and can result in a change order. If there is a change the foreman will contact you and explain why a change is needed and give you a price based on material cost and an hourly labor rate of \$55 and hour. If you verbally approve this change an email will be sent out detailing the change in the estimate.

Payment

Client will be invoiced directly after completion of the project, and payment is expected upon receipt. A service charge of 2% per month will be issued on payments not received within thirty days of the invoice date. All quoted prices are subject to state and local sales tax. Projects over two weeks long may have a unique pay schedule.

Credit Cards: Field accepts Master Card and Visa as a convenience to our clients for all types of payments. Since we don't want to increase our overall pricing to all clients to account for processing fees, a fee of 3.5% will be added to any invoice paid with a credit card.

Down Payment Schedule

More than 1 month from start date
50% of Estimate

Within 1 month from start date
50% of Estimate

Underground utilities.

All areas will be marked by the appropriate utilities. Changes to the plan as the result of unforeseen utilities will result in a Change Order. Field works in a conscience and responsible manner, and will do everything we can to avoid underground utilities in the work area. Utilities found in the work area which are deemed unsafe or not up to code may result in a Change Order.

Lien Notice

Any person or company supplying labor or materials for this improvement to your property may file a lien against your property if that person or company is not paid for their contributions.

Plants and Warranty

Client will be charged for **all** plant material installed based on the budget in this estimate. Some changes will occur based on availability; quality of available nursery stock and qualitative judgment during installation. If more or fewer plants are required, customer will be invoiced for the plant material that is installed. We DO NOT warranty sod.

All purchased plants are warrantied with the exception of marginally hardy varieties. Trees , shrubs , and perennials carry a one year warranty. Our warranty demands that the customer has kept plants watered for the entire period of the warranty. PLEASE ASK YOUR DESIGNER ABOUT DETAILS ON EACH PLANT. Transplanted / re-located plants are not warrantied.

Hardscape Warranty

Paver and flagstone patios and walkways carry a three year warranty on craftsmanship. Field will repair, replace and/or adjust the installed items should they show degradations from the original craftsmanship. Examples of potential degradations include undue settling, buckling or washout. Field is not responsible for damage due to natural disasters, flooding, accidents or physical/mechanical damage due to automobiles, snowblowers or other tools. Please refer to the manufacturer for material warranties.

This agreement shall be governed and construed in accordance with the laws of the State of Minnesota.

Client has read and agrees to the terms in this document and understands the tasks to be completed by Contractor, as defined in this contract, the plan and estimate.

Client Signature

Date

Scope of Work

Shir Tikvah Synagogue
5013 Girard Avenue S.
Minneapolis, MN
Phone Number 1
Phone Number 2



Demolition and Preparation

- Remove sod within the designated workzone. Dispose of debris.
- Remove indicated shrubs within the workzone. Dispose of brush.
- Client and volunteers will remove existing plants within workarea and set aside plants to be replanted for the duration of the project prior to crew's arrival on site.**
- Excavate soil for four new raingardens and remove soil from site.

Planting Beds and Lawn

- Install steel edging to separate garden bed from lawn. Includes cutting a 5-6" deep trench to hold the edging, trimming and staking edging sections, and compacting soil around edging sides.
- Install a 4 Rain Gardens to catch rainwater from the property before going on the driveway and into the storm sewers.
One on the *East* side of the property and three on the west side.
- Install 2 dry creek beds from downspouts to raingardens per the plan.
- Install catchbasins and drain tile from downspouts to appropriate rain gardens per the plan.
- Compost planting areas. Includes applying 2-3" of composted organic material and incorporating into the planting beds.
- Field to purchase plant materials and arrange delivery. Client to install plant materials. Trees are planted with the primary root within 1-2" of finished grade. Note: Plants are listed on the estimate. Some plant choices invariably change based on nursery availability or quality of plant material.
- Field to purchase mulch for planting areas and arrange delivery. Client to install. Includes installing 2-3" of hardwood mulch in the planting areas. When mulching around trees, maintain approximately 4" - 6" of space between the tree trunk and the start of the mulch. Hardwood mulch reduces weed colonization and helps maintain soil moisture (reducing watering). To be effective mulch should be renewed every 2-3 years.
- Any sod damage around work area or caused by machine access will be regraded with topsoil and seeded, unless specified. If sod is desired it will be extra.**

Cost Share Grant Evaluation Form
Community Engagement Grant

Name of Reviewer: Brett Eidem
 Date Reviewed: 8/4/2015

Applicant: Shir Tikvah
Project: Synagogue Landscaping
Total Project Budget: \$38,363

Community Engagement Grant: must be designed to produce greater public awareness of ways to improve water quality. These projects use a stormwater BMP as a demonstration to educate the public to build community capacity to grow knowledge and support of stormwater management in the community.

Organization Type: Congregation		
Are the Goals of Project Clearly Outlined? Yes, Water Friendly Landscaping, becoming a more sustainable congregation		
Past History: Has the applicant applied before? No		
<i>Project Design (30pts)</i>		
Notes: Project proposes capturing 8,000 sf of impervious surface that currently drains directly into the storm sewer system. Total drainage captured is 17,455 sf. Also some re-use cisterns incorporated, and larger perennial gardens to minimize sod. Basins are designed to capture first in+. Budget and maintenance plan(volunteer based) included.	10 /10	Water Resource Improvement to MCWD
	5 /5	Innovative Design
	5 /5	Budget Detail
	10 /10	Maintenance Plan
Project Design Total:		30 /30
<i>Education & Outreach (60 pts)</i>		
Notes: Gan Tikvah, "Garden of Hope" SW mgmt. is part of entire sustainable movement, promoting healthy waters and more sustainable ecosystem to congregants and neighbors. Water curriculum incorporated in Sunday school, bar mitzvah prep and youth groups. MWS capstone. Very visible, off Minnehaha parkway and across street from Lynnhurst comm. Center. Also leveraging other funds.	15 /20	Influence within Community
	25 /25	Outreach Techniques
	10 /10	Visibility of Demonstration
	5 /5	Leveraging Other Grant Funds
Education and Outreach Total:		55 /60
<i>Water Resource Prioritization (10 pts)</i>		
Notes: project is within close proximity and capturing a large volume that drains directly to Minnehaha Creek.	5 /10	Alignment with District Priorities
Water Resource Prioritization Total:		5 /10
Total:		90 /100
100 -90pts 75% Funding	The proposal is among the very best; it exceeds expectations in many areas, was very clearly presented, is an excellent match for this funding, and should be funded. Potential for up to 75% funding, not to exceed \$100,000 *project will need Board approval for funding requests over \$5,000 and a public hearing if funding request is over \$50,000	
89-75 pts 50% Funding	The proposal is generally strong and is a good match for this funding. If enough funding is available, this proposal should be funded. A few concerns might need to be addressed. Potential for up to 50% Funding, not to exceed \$50,000 *project will need Board approval for funding requests over \$5,000 and a public hearing if funding request is over \$50,000	
74-50 pts Needs Further Development	The proposal has some strengths but also several problem areas. Areas of concern would need to be addressed before further consideration of funding for this proposal.	
49-0 pts Does Not Qualify	This proposal is quite weak in many of the important areas. Concerns preclude recommendation of funding for this proposal.	
<i>Reporting</i>	*Required for all Community Engagement projects, needed before phased reimbursement is released - Description and location of outreach techniques used - Number of people engaged and educated on the project - Has the project and outreach initiated other efforts on improving water quality and awareness - Opportunities for monitoring - Inspection Form	

Comments and Notes: No parking lot opportunity, capturing a majority of impervious runoff from the site. Existing overflow drains to storm sewer to guarantee no flooding issues. Great outreach, solid cost effective project.