Chapter 7
IMPLEMENTATION

INTRODUCTION
This master plan document has outlined a long-term vision for future restoration, features, improvements, and facilities. This vision will not be completed overnight, and will only be accomplished through the collaboration and coordination of many people and agencies. Funding, operations, maintenance, programming, and continued community engagement are all vital components of implementing the plan.

PARTNER ENGAGEMENT, CONFLICT RESOLUTION, PUBLIC SERVICES
This plan was created through a joint effort between the MPRB, the MCWD, and relevant departments at the City of Minneapolis. Implementation will need to occur with continued collaboration with all relevant agencies. As the owner and operator of MPRT, MPRB will take a lead in coordination efforts. Projects that involve direct impact of the Creek and stormwater, daylighting of new waterways, changes to permeable surfaces, and addition of creek access points will require coordination with MCWD. As MCWD identifies projects and priorities for projects that fall within the study area, initiation of coordination may begin with their agency. Where implementation involves re-alignment of local roadways, curb and gutter improvements, signage and wayfinding installation, and stormwater outlet improvements, the City of Minneapolis will serve as a collaborator or project lead. Projects involving county roadways, or transit service will require coordination with Hennepin County, MetroTransit, adjacent municipalities, and/or the Metropolitan Council.
CONTINUED ENGAGEMENT AND PUBLIC AWARENESS

As MPRB implements projects as funding becomes available, neighborhood organizations and identified stakeholder groups will be engaged by the MPRB to complete the next level of design development or construction. The Vision and the Guiding Principles noted in Chapter 5 serve as a guide for this continued community engagement effort. Projects and general outcomes are identified in this master plan that demonstrate these ideas. As conditions change over the years, some items that seemed like a priority during the master planning process may be replaced by more immediate needs to address, and further detail will need to be determined for implementation of any of the projects identified.

Community engagement will continue to follow the equity standards set forth by MPRB in the Community Engagement Policy, which embeds the use of a racial equity toolkit into the community engagement plan required for every project. Approaches may involve convening neighborhood focus groups or committees, hosting pop-up or open houses, or gathering feedback through online engagement.

Today, public awareness of existing facilities and services is communicated through the MPRB website, posted on MPRB kiosks along Minnehaha Parkway and throughout the Grand Rounds, and through gateway and trail signage. Programs are communicated through similar methods. Future implementation of wayfinding improvements as planned for the Western Creek District and for new activity areas will be designed further with community/neighborhood input and in coordination with the City of Minneapolis and local affected agencies. Collaboration with MetroTransit will continue to occur to raise awareness along bus routes that intersect Minnehaha Parkway.

STEWARDSHIP PLAN

The MPRB and MCWD will continue to serve as partner agencies to manage the Creek Corridor. Trail, facility, and grounds maintenance will continue to be the responsibility of MPRB, through the direction and operation of the MPRB Environmental Stewardship Division.

Today, there are active neighborhood groups, bicycle and pedestrian advocacy groups, and natural resource stewards that are working to advance their special interests along the Creek Corridor. MPRB is committed to working alongside these groups to promote volunteerism, outreach, and support equitable access to the resources provided through the Regional Trail Corridor, where these interests are in alignment with the vision and guiding principles outlined in Chapter 5.
The following pages outline identified projects and associated project themes, priorities, phasing, related projects and associated costs. The projects are keyed to the master plan segment and focus area concepts presented in Chapter 5.

**THEMES**

Early on in the planning process, four themes emerged that have been woven into the master plan and implementation plan. These themes are:

- **CONNECTIVITY**
- **RECREATION AND ACTIVITIES**
- **NATURAL RESOURCES**
- **CULTURAL AND HISTORICAL RESOURCES**

Each project listed in the tables in the following pages include identification of themes addressed. As funding or collaboration opportunities arise in the future, these themes will provide guidance on how to balance efforts.

**PROJECT PHASES**

A phase has been assigned to each identified project to guide MPRB staff on potential order of implementation to avoid duplication of efforts. Project phasing may also be driven by hydraulic or other site-specific concerns.

**PHASE 1 PROJECTS**
- Projects that can be completed immediately, or as funding becomes available
- Projects that don’t depend on other projects to be completed first (can be completed anytime)
- Projects that are lower in cost

**PHASE 2 PROJECTS**
- Projects that depend on certain Phase 1 projects to be completed
- Projects that are larger in scope that will require significant funding
- Projects that require further design exploration and community engagement

**PHASE 3 PROJECTS**
- Projects that are dependent on certain Phase 2 projects to be completed
- Projects that are larger in scope and will require significant funding
- Smaller projects that can be grouped with major Phase 3 projects
- Projects that require further design exploration and community engagement

**GENERAL PROJECTS**

Throughout the Creek Corridor, there are General Projects that have not been specifically identified in the tables and maps. These projects are general or relate to maintenance or operations work along the Creek. Components of these projects include:
- Outfall Repair
- Intersection Treatments (where treatments don’t directly influence another project)
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is

**RELATED PROJECTS**

Where possible, related projects have been identified that could be implemented at similar times because they are close in location or require similar planning or community engagement efforts.

**PRIORITY PROJECTS**

Priority projects have been identified by the project team and with support of the Community Advisory Committee. These projects should be implemented as soon as possible, as they address immediate safety or infrastructure needs as identified through the planning process.

**COSTS**

Costs have been determined based on previous cost estimates and recent, similar project work performed locally. Linear foot costs have been used to determine rough cost estimates for trail construction and creek remeander projects. Costs per square foot or acre have been used to approximate creek restoration projects. ‘Soft costs’ have been included in the totals, with architecture/engineering/design costs factored at 30% of the estimated construction costs and a construction contingency of 20% of the estimated construction costs added.

Roadway or intersection re-alignment project costs include full utility replacements, sidewalk replacements, and full street reconstruction. These costs do not include property acquisition, small utility relocations, street lighting or signalization (unless specified in the project extents).

These costs are intended to serve as a baseline for project planning and reflect generalities based on known information as of Spring 2020. Nearly all projects will require further design, engineering, or study, and all projects are subject to MPRB standard bidding procedures. Total costs for all projects is estimated to be approximately $108,000,000.

The Lynnhurst Focus Area notes where costs have been transferred directly from the recently completed draft Southwest Service Area Master Plan (SWSAMP) cost estimate, to provide consistency between the two projects. These costs also include soft costs such as construction contingencies and design or engineering fees.
SEGMENT 1 PROJECTS

**Figure 7.1 Segment 1 Projects**
## Existing Grand Rounds Signage could be expanded for Western Creek District wayfinding

<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>THEMES</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-A</td>
<td>Bike/Ped Bridge at Zenith</td>
<td>Bike/Ped Bridge</td>
<td>New Feature</td>
<td>Bike/Ped bridge over Creek, approx. 100’ in length, including wayfinding/interpretation</td>
<td>1-B</td>
<td></td>
<td>1</td>
<td>$375,000</td>
</tr>
<tr>
<td>1-B</td>
<td>Ped Trail at Zenith</td>
<td>Trail</td>
<td>New Feature</td>
<td>Pedestrian trail connection from Zenith Ave (Edina) to Xerxes Ave (Mpls), approx. 600’ in length, including wayfinding</td>
<td>1-A</td>
<td></td>
<td>1</td>
<td>$102,000</td>
</tr>
<tr>
<td>1-C</td>
<td>Natural Surface Trail Xerxes to Penn</td>
<td>Trail</td>
<td>New Feature</td>
<td>Natural surface trail from Xerxes to Upton, Upton to Forest Dale (approx. 3,000LF total) across new pedestrian bridge, Russel to Penn</td>
<td>1-F, Creek restoration west of Penn, Intersection Treatments at Xerxes and Upton</td>
<td></td>
<td>1</td>
<td>$22,500</td>
</tr>
<tr>
<td>1-D</td>
<td>Picnic area at Washburn/Vincent</td>
<td>Picnic Area</td>
<td>New Feature</td>
<td>Picnic table(s), trash receptacles</td>
<td>1-E</td>
<td></td>
<td>1</td>
<td>$30,000</td>
</tr>
<tr>
<td>1-E</td>
<td>Creek Access at Washburn/Vincent</td>
<td>Creek Access</td>
<td>New Feature</td>
<td>Walk-in creek access; low-impact/natural design</td>
<td>1-D</td>
<td></td>
<td>1</td>
<td>$20,000</td>
</tr>
<tr>
<td>1-F</td>
<td>Pedestrian bridge at Forest Dale/Russel</td>
<td>Ped Bridge</td>
<td>New Feature</td>
<td>Ped bridge over Creek, approx. 80’ in length</td>
<td>1-C</td>
<td></td>
<td>1</td>
<td>$405,000</td>
</tr>
<tr>
<td>1-G</td>
<td>Creek District Wayfinding</td>
<td>Wayfinding</td>
<td>New Feature</td>
<td>Wayfinding plan, design, and installation throughout Western Creek District to direct pedestrians and bicyclists to Minnehaha Creek and nearby destinations</td>
<td>All projects in Segment 1</td>
<td></td>
<td>1</td>
<td>$150,000</td>
</tr>
</tbody>
</table>

### SEGMENT 1 PHASING

#### PHASE 1 PROJECTS

All projects identified in Segment 1 that are not within Focus Areas have been identified as Phase 1 Projects. These projects are defined as:

- Projects that can be completed immediately, or as funding becomes available
- Projects that don’t depend on other projects to be completed first (can be completed anytime)
- Projects that are lower in cost

#### GENERAL PROJECTS

Projects that are not included in the above project list are considered ‘General’

- Outfall Repair
- Intersection Treatments (where treatments don’t directly influence another project)
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is

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Existing Grand Rounds Signage could be expanded for Western Creek District wayfinding
MINNEHAHA PArkway Regional Trail Master Plan

Penn-Newton-Morgan Focus Area Projects

1.1-A
1.1-B
1.1-C
1.1-D
1.1-E
1.1-F
1.1-G
1.1-H
1.1-I
1.1-J
1.1-K
1.1-L
1.1-M
1.1-N
1.1-O
1.1-P

Figure 7.2 Penn-Newton-Morgan Focus Area Projects

Key

- Study Area
- 100-Year Floodplain
- 2' Contours
- Minnehaha Creek (Existing)
- Proposed Creek Restoration
- Proposed BMP
- Outfall (Existing)
- Buildings
- Recreational Activities (Colors and Icons Vary)
- Interpretation Opportunity
- Public Art / Placemaking
- Interpretive Overlooks
- With Starway Connections to Natural Surface Trail and High Visibility Crosswalk Markings
- Creek Access
- Accessed from Natural Surface Trail Spur
- Stormwater BMP
- Stormwater Basin to Be Designed to Prioritize Preservation of Existing Trees
- Creek and Floodplain Forest Restoration
- Natural Surface Trail or Alternate Paved Trail Route Based on Trail Feasibility Study at Time of Implementation
- Creek Access
- Trail/Bridge Location TBD
- Alternates to Be Studied in Detailed Design Once a Future Project Initiates
- Pedestrian Trail (Converted from Natural Surface Trail)
- Stormwater BMP
- Replace Existing Concrete Spillway with Multi-Cell BMP (Cascading Pools) and Interpretive Element Explaining the BMP
- Existing Tennis Courts Resurfaced
- Waterside Picnic Area
- Pollinator Play Lawn with Picnic Tables, a New Picnic Shelter and Public Art
- Wayfinding
- and Sidewalk Extension to 53rd Street
<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1-A</td>
<td>Creek Restoration West of Penn</td>
<td>Remeander/Restoration</td>
<td>Restoration</td>
<td>Creek remeander (400LF) with braided channel and floodplain forest restoration (1.72acres)</td>
<td>1.1-C</td>
<td>2</td>
<td>$437,400</td>
</tr>
<tr>
<td>1.1-B</td>
<td>Interpretive Overlooks at Penn</td>
<td>New Feature</td>
<td>New Feature</td>
<td>Interpretive overlooks with stairway connections down to trails, including high visibility crosswalk markings</td>
<td>1-C, 1.1-C</td>
<td>2</td>
<td>$225,000</td>
</tr>
<tr>
<td>1.1-C</td>
<td>Natural Surface Trail Penn to Morgan</td>
<td>Trail</td>
<td>New Feature</td>
<td>Natural surface trail (1500 LF) from Penn Ave east to tennis courts and to Morgan Ave.</td>
<td>1.1-A, 1.1-B</td>
<td>1</td>
<td>$15,000</td>
</tr>
<tr>
<td>1.1-D</td>
<td>Creek Access at Penn</td>
<td>Creek Access</td>
<td>New Feature</td>
<td>Walk-in creek access; low-impact/natural design</td>
<td>1.1-C</td>
<td>1</td>
<td>$15,000</td>
</tr>
<tr>
<td>1.1-E</td>
<td>Stormwater BMP East of Penn</td>
<td>BMP</td>
<td>New Feature</td>
<td>Stormwater BMP: Stormwater basin approx. 0.33 acres with moved outlet</td>
<td>1.1-D, 1.1-C</td>
<td></td>
<td>$180,000</td>
</tr>
<tr>
<td>1.1-F</td>
<td>Creek Restoration West of Newton</td>
<td>Remeander/Restoration</td>
<td>New Feature</td>
<td>Creek remeander (275LF) with floodplain forest restoration (23,700SF)</td>
<td>1.1-E</td>
<td>2</td>
<td>$272,300</td>
</tr>
<tr>
<td>1.1-G</td>
<td>Picnic Shelter</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Picnic shelter at tennis court, including pedestrian walk access to existing 52nd Street bridge</td>
<td>1.1-H, 1.1-I</td>
<td>1</td>
<td>$328,800</td>
</tr>
<tr>
<td>1.1-H</td>
<td>Morgan Ave Tennis Court Renovation</td>
<td>Court Renovation</td>
<td>Renovation</td>
<td>Renovation of tennis courts at Morgan Avenue</td>
<td>1.1-G</td>
<td>1</td>
<td>$260,000</td>
</tr>
<tr>
<td>1.1-I</td>
<td>Waterside Picnic Area</td>
<td>Picnic Area</td>
<td>New Feature</td>
<td>Picnic tables and/or lounge seating along waters edge, including interpretive art and pollinator play lawn</td>
<td>1.1-G, 1.1-H</td>
<td>1</td>
<td>$61,500</td>
</tr>
<tr>
<td>1.1-J</td>
<td>Wayfinding and Sidewalk Extension at Morgan Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Wayfinding at south terminus of new pedestrian trail and sidewalk extension from new trail south to 53rd Street.</td>
<td>1.1-K, 1.1-M</td>
<td>2</td>
<td>$30,000</td>
</tr>
<tr>
<td>1.1-K</td>
<td>Bike and Ped Trail Extension from Logan</td>
<td>Trail</td>
<td>New Feature</td>
<td>Extents to be determined with further design; pedestrian and trail connection from southeast corner of park boundaries on Morgan Ave to Logan Avenue trail crossing. Includes bike racks, interpretation at 52nd Street Creek bridge.</td>
<td>1.1-M</td>
<td>2</td>
<td>$150,000</td>
</tr>
<tr>
<td>1.1-L</td>
<td>Stormwater Treatment at 52nd Street Outfall (to replace concrete flume)</td>
<td>BMP</td>
<td>New Feature/Replace</td>
<td>Replace existing concrete spillway with multi-cell BMP (10,000SF) and associated interpretation</td>
<td>1.1-M</td>
<td>2</td>
<td>$366,000</td>
</tr>
<tr>
<td>1.1-M</td>
<td>Bike/Ped Bridge at Morgan Ave</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Extents/project to be defined with further design and community engagement. Bike Ped Bridge crossing of Creek at Morgan Avenue, includes wayfinding, interpretation</td>
<td>1.1-K, 1.1-P</td>
<td>2</td>
<td>$450,000</td>
</tr>
<tr>
<td>1.1-N</td>
<td>Floodplain storage at Morgan/Logan</td>
<td>BMP</td>
<td>New Feature</td>
<td>Floodplain storage at Morgan and Logan Ave on north side of creek (7,000SF)</td>
<td>1.1-K, 1.1-M</td>
<td>2</td>
<td>$85,000</td>
</tr>
<tr>
<td>1.1-O</td>
<td>Bridge Reconstruction at Logan Ave</td>
<td>Bridge Reconstruction</td>
<td>Reconstruction</td>
<td>Reconstruction of Logan Avenue Bridge for enhanced pedestrian and bicycle trail crossing</td>
<td>1.1-K</td>
<td>2</td>
<td>$5,600,000</td>
</tr>
<tr>
<td>1.1-P</td>
<td>Creek Access at Morgan</td>
<td>Creek Access</td>
<td>New Feature</td>
<td>Walk-in creek access; low-impact/natural design</td>
<td>1.1-M, 1.1-K</td>
<td>1</td>
<td>$20,000</td>
</tr>
</tbody>
</table>

**PENN-NEWTON-MORGAN FOCUS AREA 1.1 TOTAL**: $8,496,000

*Table 7.2 Penn-Newton-Morgan Focus Area Projects*
PENN-NEWTON-MORGAN PHASING

The following is a suggested phasing plan for the Penn-Newton-Morgan Focus Area. This framework is intended to avoid duplication of efforts in the same area or prolonged closure of park features during construction:

PHASE 1
- Projects that can be completed immediately, or as funding becomes available
- Projects that don’t depend on other projects to be completed first (can be completed anytime)
- Projects that are lower in cost

PHASE 1 PROJECTS INCLUDE:
- Waterside picnic area
- Resurfacing of tennis courts
- Construction of new picnic shelter
- Conversion of turf lawn to pollinator lawn at sledding hill
- Natural surface trail construction
  - Creek Access at Penn Ave and at Morgan Ave
- Creekside restoration east of tennis courts
- Oak Forest restoration south of sledding hill

PHASE 2
- Projects that depend on certain Phase 1 projects to be completed
- Projects that are larger in scope that will require significant funding
- Projects that require further design exploration and community engagement

PHASE 2 PROJECTS INCLUDE:
- Creek restoration/BMP projects, including the braided channel with restored floodplain forest west of Penn Ave, Stormwater BMP east of Penn Ave, Creek and Floodplain forest restoration (remeander) west of tennis courts, multi-cell BMP to replace existing concrete spillway at 52nd St., floodplain storage west of Logan Ave.
- Interpretive overlooks at Penn Avenue, including crosswalk enhancements
- Pedestrian and bicycle trail extension from Logan Ave
- Morgan Avenue bike/ped bridge
- Logan Avenue bridge reconstruction
- Sidewalk extension at Morgan Ave

GENERAL PROJECTS
Projects that are not included in the above project list are considered ‘General’
- Outfall Repair
- Intersection Treatments (where treatments don’t directly influence another project)
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is
Precedent examples of proposed features in the Penn-Newton-Morgan Focus Area
LYNNHURST FOCUS AREA PROJECTS

Figure 7.3 Lynnhurst Focus Area Projects
<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>THEMES</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2-A</td>
<td>Creek Restoration West of James Ave</td>
<td>Remeander, Restoration, BMP</td>
<td>Restoration</td>
<td>Remeander of Creek (450LF) - with integrated flood storage/pollinator lawn/</td>
<td>1.2-T</td>
<td></td>
<td>1</td>
<td>$670,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>restoration area (1.4acres) west of James Ave.</td>
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<tr>
<td>1.2-B</td>
<td>Flood Storage at Burroughs</td>
<td>BMP</td>
<td>New Feature</td>
<td>Flood storage (type TBD, 2.6acres) in field south of Burroughs Elementary with</td>
<td></td>
<td></td>
<td>1</td>
<td>$8,200,000</td>
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<td></td>
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<td>multi-use diamond, multi-use fields</td>
<td></td>
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</tr>
<tr>
<td>1.2-C</td>
<td>Re-design of Minnehaha Parkway &amp; Minnehaha</td>
<td>Intersection</td>
<td>Reconstruction</td>
<td>Realignment of Minnehaha Parkway and Minnehaha Parkway, including high</td>
<td>1.2-D</td>
<td></td>
<td>1</td>
<td>$495,000</td>
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<tr>
<td></td>
<td>Parkway</td>
<td></td>
<td></td>
<td>visibility crosswalks, curb extensions and 3-way stop.</td>
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<tr>
<td>1.2-D</td>
<td>Bike and Ped Trail Realignments at</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Bike and ped trail realignments (5700 LF) including connection to bike/ped</td>
<td>1.2-F, 1.2-J</td>
<td></td>
<td>1</td>
<td>$1,900,000</td>
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<tr>
<td></td>
<td>Lynnhurst</td>
<td></td>
<td></td>
<td>bridge at Humboldt, bike and ped trail and sidewalk connections at 50th Street,</td>
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<td></td>
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<td></td>
<td>bike trail and bike bridge north of 50th Street, ped connection east of Burrough's</td>
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<td></td>
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<td></td>
<td>Elementary and new pedestrian bridge. Includes renovated walking paths per</td>
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<td></td>
<td></td>
<td></td>
<td>SWSAMP</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1.2-E</td>
<td>ADA Creek Access + Fishing Pier</td>
<td>Creek Access</td>
<td>New Feature</td>
<td>ADA kayak/canoe Launch and fishing pier, accessible path to launch and ADA</td>
<td>1.2-F</td>
<td></td>
<td>1</td>
<td>$375,000</td>
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<td></td>
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<td></td>
<td>parking stalls, including interpretation</td>
<td></td>
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</tr>
<tr>
<td>1.2-F</td>
<td>Creek Restoration South of ADA Launch</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Streambank and wetland restoration (4.5acre), along with creek remeander (650</td>
<td>1.2-D, 1.2-E</td>
<td></td>
<td>1</td>
<td>$1,088,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LF) south of ADA launch to Humboldt/Girard (the Flats). Potential for boardwalk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>construction to maintain path connections through area.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1.2-G</td>
<td>Community Center at Lynnhurst</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Construction of a new environmentally-focused community/recreation center with</td>
<td>1.2-H, 1.2-M, 1.2-Q, 1.2-P</td>
<td></td>
<td>2</td>
<td>$10,000,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>gymnasium, creekside patio with public art and exterior-accessed restrooms.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Includes removal of existing rec center. Cost includes $5,218,460 as shown in</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>estimate for SWSAMP, plus additional costs for gymnasium.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2-H</td>
<td>Traditional Play in New Containers with</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Traditional playground; cost transferred directly from SWSAMP estimate.</td>
<td>1.2-G</td>
<td></td>
<td>2</td>
<td>$867,320</td>
</tr>
<tr>
<td></td>
<td>Public Art</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2-I</td>
<td>Parking Lot</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Construction of new parking lot, to be accessed from James Avenue; cost</td>
<td>1.2-G</td>
<td></td>
<td>2</td>
<td>$734,671</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>transferred directly from SWSAMP estimate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2-J</td>
<td>Education Shelter at Burroughs</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Open-air shelter designed for educational programming along the daylighted</td>
<td>1.2-D, 1.2-E, 1.2-O</td>
<td></td>
<td>1</td>
<td>$375,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>tributary, including interpretation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2-K</td>
<td>Underground Flood Storage</td>
<td>BMP</td>
<td>New Feature</td>
<td>Underground flood storage (6 acres)</td>
<td>1.2-G, 1.2-L</td>
<td></td>
<td>2</td>
<td>$18,800,000</td>
</tr>
<tr>
<td>1.2-L</td>
<td>Athletic Field Renovations</td>
<td>Field Renovation</td>
<td>Reconstruction</td>
<td>Athletic Field Renovation including (2) multi-use diamonds and multi-use fields</td>
<td>1.2-K</td>
<td></td>
<td>2</td>
<td>$1,928,511</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>with seasonal hockey rink; cost transferred directly from SWSAMP estimate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2-M</td>
<td>Courts and Open Playfield/Skating Rink at</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Tennis courts, basketball courts and open playfield (to be floodable skating rink</td>
<td>1.2-G, 1.2-K, 1.2-L,</td>
<td></td>
<td>2</td>
<td>$940,000</td>
</tr>
<tr>
<td></td>
<td>Lynnhurst</td>
<td></td>
<td></td>
<td>in winter), along with sidewalk connections (1600LF) from James Avenue to the</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>new community center. Costs include SWSAMP estimates for Basketball Court</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>($265,298) and Tennis Courts ($530,596).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2-N</td>
<td>Bridge at 50th Street</td>
<td>Bridge</td>
<td>Construction</td>
<td>Construction of 50th Street bridge with clearance for trails and daylighted</td>
<td>1.2-O</td>
<td></td>
<td>3</td>
<td>$5,672,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>tributary below. Includes trail connections under bridge (900 LF).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 7.1 Lynnhurst Focus Area Projects
## Lynnhurst Focus Area Projects (Continued)

<table>
<thead>
<tr>
<th>TAG</th>
<th>Project Name</th>
<th>Project Type</th>
<th>Action</th>
<th>Extents / Dimensions</th>
<th>Related Projects</th>
<th>Phase</th>
<th>Est. Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2-O</td>
<td>Daylighted Tributary from Lake Harriet</td>
<td>Restoration</td>
<td>Restoration</td>
<td>Daylighted Tributary (1500 LF) and associated streambank restoration (4 acres)</td>
<td>1.2-E, 1.2-N, 1.2-R, 1.2-S,</td>
<td>3</td>
<td>$900,000</td>
</tr>
<tr>
<td>1.2-P</td>
<td>Creekside Nature Play Area</td>
<td>New Construction</td>
<td>New Feature</td>
<td>Construction of Creekside Nature Play Area with natural features for water access (boulders, wading, etc.); cost transferred directly from SWSAMP estimate.</td>
<td>1.2-G, 1.2-O</td>
<td>3</td>
<td>$714,263</td>
</tr>
<tr>
<td>1.2-Q</td>
<td>Naturalized Areas</td>
<td>Restoration</td>
<td>Restoration</td>
<td>Naturalized areas including pollinator lawn and enhanced natural resource management; cost transferred directly from SWSAMP estimate.</td>
<td></td>
<td>1</td>
<td>$32,854</td>
</tr>
<tr>
<td>1.2-R</td>
<td>Misc. Signs, Trees, Furniture</td>
<td>Activity Area</td>
<td>New Features</td>
<td>Installation of miscellaneous signs, trees, furniture; cost transferred directly from SWSAMP estimate.</td>
<td>1-G</td>
<td>1</td>
<td>$95,244</td>
</tr>
<tr>
<td>1.2-S</td>
<td>Bridge Reconstruction North of 51st Street</td>
<td>Bridge</td>
<td>Reconstruction</td>
<td>Reconstruction of bridge along Minnehaha Parkway north of 51st Street to be raised above restored floodplain for wildlife habitat continuity. Includes integrated overlook areas with interpretation and high visibility crosswalk at overlook.</td>
<td>1.2-F, 1.2-D</td>
<td>3</td>
<td>$5,875,000</td>
</tr>
<tr>
<td>1.2-T</td>
<td>Bike and Ped Trail Extensions on 51st St</td>
<td>Trail</td>
<td>New Feature</td>
<td>Separate bike and ped trails (2,400 LF) on north side of 51st Street west Minnehaha Parkway to Logan Avenue</td>
<td>1.2-A, 1.2-D, Intersection Treatment at James and 51st Street</td>
<td>1</td>
<td>$288,000</td>
</tr>
</tbody>
</table>

Table 7.3 (continued) Lynnhurst Focus Area Projects
LYNNHURST PHASING

Because the proposed design of Lynnhurst includes installing new features or moving existing features, a phasing framework is suggested, to avoid duplication of efforts and prolonged closure of park features during construction.

It has been noted where costs have been transferred directly from the recently completed draft Southwest Service Area Master Plan (SWSAMP) cost estimate, to provide consistency between the two projects. These costs also include soft costs.

PHASE 1:
- Projects that can be completed immediately, or as funding becomes available
- Projects that don’t depend on other projects to be completed first (can be completed anytime)
- Projects that are lower in cost

PHASE 1 PROJECTS INCLUDE:
- Intersection re-alignment and stop signs at Minnehaha Parkway and Minnehaha Parkway,
- Trail re-alignments, new trail extension west along 51st Street
- BMP at Burroughs Elementary and west of James Ave,
- ADA paddle launch and parking,
- Creek restoration and native restoration down creek from the ADA paddle launch
- Educational shelter at Burroughs
- Flood storage at Burroughs

PHASE 2:
- Projects that depend on certain Phase 1 projects to be completed
- Projects that are larger in scope that will require significant funding
- Projects that require further design exploration and community engagement

PHASE 2 PROJECTS INCLUDE:
- New construction of Environmentally-focused community center with Gymnasium on the north side of 50th Street
- Underground flood storage BMP and new multi-use fields at Lynnhurst
- New (moved) Tennis, basketball, open play/skating rink and parking at Lynnhurst
- New play area at Lynnhurst

PHASE 3:
- Projects that are dependent on Phase 2 to be completed
- Projects that are larger in scope and will require significant funding
- Smaller projects that can be lumped with major Phase 3 projects
- Projects that require further design exploration and community engagement

PHASE 3 PROJECTS INCLUDE:
- Bridge Reconstruction at Minnehaha Parkway and 51st Street
- Bridge Construction along 50th Street
- Daylighting of Tributary
- Creekside Nature Play Area
- Re-alignment of ped and bike trails under new 50th Street Bridge
- New ped bridge crossing at Creekside Nature Play area north of 50th Street

GENERAL PROJECTS
Projects that are not included in the above project list are considered ‘General’
- Outfall Repair
- Intersection Treatments (where treatments don’t directly influence another project)
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is
SEGMENT 2 PROJECTS

Figure 7.4 Segment 2 Projects
### SEGMENT 2 PHASING

#### PHASE 1
- Projects that can be completed immediately, or as funding becomes available
- Projects that don't depend on other projects to be completed first (can be completed anytime)
- Projects that are lower in cost

#### PHASE 1 PROJECTS INCLUDE:
- Pedestrian trail from Humboldt to Dupont, South of the Creek
- Bike trail from 51st Street to Emerson, North of the Creek
- Bike and pedestrian trail connections at Bryant and Aldridge
- Creek Access at Harriet

#### PHASE 2
- Projects that depend on certain Phase 1 projects to be completed
- Projects that are larger in scope that will require significant funding
- Projects that require further design exploration and community engagement

#### PHASE 2 PROJECTS INCLUDE:
- Creek restoration at the Flats (Humboldt/Girard)
- Creek restoration at Dupont
- Creek restoration at Bryant

#### GENERAL PROJECTS
Projects that are not included in the above project list are considered ‘General’
- Outfall Repair
- Intersection Treatments (where treatments don’t directly influence another project)
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is

---

<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>THEMES</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-A</td>
<td>Pedestrian Trail from Humboldt to Dupont, South of Creek</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Re-alignment of pedestrian trail (1,100LF) west of Dupont Ave bridge, including adjacent pollinator play lawn, (58,800SF/1.4ac) to provide room for future creek restoration</td>
<td>2-E</td>
<td>$176,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-B</td>
<td>Bike Trail from 51st Street to Emerson, North of Creek</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Re-alignment of bike trail (1,400LF) north of Creek between 51st Street and Emerson, to provide room for future creek restoration</td>
<td>2-E</td>
<td>$168,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-C</td>
<td>Bike and Ped Trail Connections at Bryant and Aldridge</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Bike and Ped trail connections at Bryant and Aldrich to provide room for future creek restoration</td>
<td>2-G</td>
<td>$132,600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-D</td>
<td>Creek Access at Harriet</td>
<td>Creek Access</td>
<td>New Feature</td>
<td>New creek access (launch) on north side of Creek between Harriet Ave and Garfield Ave. Includes picnic table(s).</td>
<td></td>
<td>$98,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-E</td>
<td>Creek Restoration at Humboldt/Girard (The Flats)</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Creek remeander (1,400LF) and associated restoration (5.5ac) in the area known as the Flats (Humboldt Ave to Girard). Includes interpretive elements.</td>
<td>2-A, 2-B</td>
<td>$1,400,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-F</td>
<td>Creek Restoration at Dupont</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Remeander (420LF) and restoration (1.1ac) at Dupont Ave Bridge, including interpretation.</td>
<td>2-A</td>
<td>$457,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-G</td>
<td>Creek Restoration at Bryant</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Remeander (470LF) and restoration (0.81ac) at Bryant Ave (braided channel restoration). Includes interpretation.</td>
<td>2-C</td>
<td>$490,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SEGMENT 2 TOTAL** $2,922,100

Table 7.4 Segment 2 Projects
NICOLLET HOLLOW FOCUS AREA PROJECTS

Figure 7.5 Nicollet Hollow Focus Area Projects
<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-A</td>
<td>Creek Restoration Near Valleyview Drive</td>
<td>Restoration</td>
<td>Restoration</td>
<td>Restoration (1 acre) and remeander (175LF) of Creek west of Valleyview Drive</td>
<td>2.1-B</td>
<td>1</td>
<td>$202,500</td>
</tr>
<tr>
<td>2.1-B</td>
<td>Picnic Area near Valleyview Drive</td>
<td>Picnic Area</td>
<td>New Feature</td>
<td>Picnic area including new shelter, on-street parking and public art/interpretation</td>
<td>2.1-A</td>
<td>1</td>
<td>$525,000</td>
</tr>
<tr>
<td>2.1-C</td>
<td>Pedestrian Trail Connections at Pleasant Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Pedestrian trail connections north of creek to bridge at Pleasant Ave (50LF total) and pedestrian trail markings across bridge. Includes interpretive element at bridge.</td>
<td>2.1-A, 2.1-B</td>
<td>1</td>
<td>$66,000</td>
</tr>
<tr>
<td>2.1-D</td>
<td>Bike and Ped Trail Realignments West of Nicollet Ave</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Re-alignment of pedestrian trails north of Creek and bike trail south of creek to provide room for future restoration area, west of Nicollet Ave to Pleasant Ave. bridge (1500LF total). Includes interpretation and overlook near Pleasant.</td>
<td>2.1-H, 2.1-I</td>
<td>1</td>
<td>$270,000</td>
</tr>
<tr>
<td>2.1-E</td>
<td>Intersection Treatment at Nicollet Ave</td>
<td>Intersection</td>
<td>Treatment</td>
<td>Re-alignment of roadway intersection at Nicollet Ave for improved sight lines. Includes overlook, stair connection and public art, and any pedestrian crossing treatments.</td>
<td>2.1-A, 2.1-B</td>
<td>1</td>
<td>$1,118,000</td>
</tr>
<tr>
<td>2.1-F</td>
<td>Picnic Area at Lower Parkway Road</td>
<td>Picnic Area</td>
<td>New Feature</td>
<td>Picnic area at Lower Parkway Road, west of Nicollet Ave Bridge, includes picnic area on west side of roadway, drinking fountain, pollinator play lawns on both sides of bridge, and public art</td>
<td>2.1-A, 2.1-B</td>
<td>1</td>
<td>$192,000</td>
</tr>
<tr>
<td>2.1-G</td>
<td>Pedestrian Connection East of Nicollet Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Pedestrian connection and pedestrian crossing at Minnehaha Parkway east of Nicollet Ave</td>
<td>2.1-A, 2.1-B</td>
<td>1</td>
<td>$39,000</td>
</tr>
<tr>
<td>2.1-H</td>
<td>Creek Restoration, Remeander and Constructed Wetlands, Nicollet Hollow</td>
<td>Remeander/Restoration/BMP</td>
<td>Restoration</td>
<td>Creek restoration (4.5acres) and remeander (1500LF) in Nicollet Hollow, including all associated streambank and wetland restoration and constructed wetlands. Includes interpretation.</td>
<td>2.1-D</td>
<td>2</td>
<td>$1,598,000</td>
</tr>
<tr>
<td>2.1-I</td>
<td>Pedestrian Trail and Bridge West of Nicollet Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Construction of new separated pedestrian trail north of the creek from existing pedestrian bridge at Nicollet to Belmont. Includes new bridge crossing with interpretation at Belmont.</td>
<td>2.1-D</td>
<td>2</td>
<td>$507,000</td>
</tr>
<tr>
<td>2.1-J</td>
<td>Nicollet Ave Bridge Renovation</td>
<td>Bridge Repair</td>
<td>Repair</td>
<td>Repair/renovation of Nicollet Ave Bridge, including integrated public art elements</td>
<td>2.1-K</td>
<td>2</td>
<td>TBD</td>
</tr>
<tr>
<td>2.1-K</td>
<td>Nicollet Hollow Activity Area</td>
<td>Activity Area</td>
<td>New Feature</td>
<td>Construction and installation of activity area features, such as ADA accessible creek access, on-street ADA parking, restroom enclosure, bouldering course, natural-themed play features, public art and associated ped and bike trail connections under the Nicollet Ave Bridge.</td>
<td>2.1-J</td>
<td>3</td>
<td>$758,000</td>
</tr>
</tbody>
</table>

**Themes**

**Nicollet Hollow Focus Area Total** $5,275,500

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Table 7.5 Nicollet Hollow Focus Area Projects
NICOLLET HOLLOW PHASING

PHASE 1
» Projects that can be completed immediately, or as funding becomes available
» Projects that don’t depend on other projects to be completed first (can be completed anytime)
» Projects that are lower in cost

PHASE 1 PROJECTS INCLUDE:
» Creek restoration/remeander near Valleyview Drive
» Picnic Area and Parking at open area near Valleyview Drive/Minnehaha Parkway on south side of Creek, including drinking fountain
» Pedestrian trail connections at Minnehaha Parkway/Pleasant Ave, including interpretation
» Re-aligned pedestrian trails north of the Creek, re-aligned bike trail south of the Creek
» Re-aligned intersection at Nicollet with overlook and stair connections
» Picnic Area at lower Minnehaha Parkway Road, including pollinator lawn and public art
» Pedestrian connection east of Nicollet

PHASE 2
» Projects that depend on certain Phase 1 projects to be completed
» Projects that are larger in scope that will require significant funding
» Projects that require further design exploration and community engagement

PHASE 2 PROJECTS INCLUDE:
» Creek Restoration and Constructed Wetlands between the pedestrian bridges west of Nicollet
» New Pedestrian Trail and pedestrian bridge west of Nicollet Ave
» Renovated Nicollet Avenue Bridge with integrated public art

PHASE 3
» Projects that are dependent on certain Phase 2 projects to be completed
» Projects that are larger in scope and will require significant funding
» Smaller projects that can be grouped with major Phase 3 projects
» Projects that require further design exploration and community engagement

PHASE 3 PROJECTS INCLUDE:
» Nicollet Hollow Activity Area
  - Restroom enclosure
  - Designated on-street parking
  - ADA Accessible Creek Access
  - Bouldering course
» Ped and bike trail connections under Nicollet Ave Bridge to support Activity Area

GENERAL PROJECTS
Projects that are not included in the above project list are considered ‘General’
» Outfall Repair
» Intersection Treatments (where treatments don’t directly influence another project)
» Native plant community restoration and transition areas for pollinator lawns
» Trail repair or maintenance of existing facilities to remain as-is
SEGMENT 3 PROJECTS

Figure 7.6  Segment 3 Projects
<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-A</td>
<td>Creek Restoration at Elliot</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Remeander (560LF) and restoration (2.2ac) at Elliot Ave.</td>
<td>3-B</td>
<td>1</td>
<td>$375,000</td>
</tr>
<tr>
<td>3-B</td>
<td>Pedestrian Trail and Bridge at 10th Ave</td>
<td>Trail</td>
<td>New Feature / Reconstruction</td>
<td>Reconstructed pedestrian trail connections at Chicago Ave, Elliot to 11th Ave, (1,430LF total) and new pedestrian bridge crossing at 10th Ave.</td>
<td>3-A 3-C, 3-F</td>
<td>1</td>
<td>$471,600</td>
</tr>
<tr>
<td>3-C</td>
<td>Creek Access at 10th Ave</td>
<td>Creek Access</td>
<td>New Feature</td>
<td>Walk-in creek access; low-impact/natural design</td>
<td>3-B, 3-D</td>
<td>1</td>
<td>$30,000</td>
</tr>
<tr>
<td>3-D</td>
<td>Remeander / Stormwater BMP at 11th Ave</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Creek restoration, remeander (533LF) with stormwater BMP feature / outfall repair and associated streambank restoration (1.5ac) at 11th Ave</td>
<td>3-C, 3-F</td>
<td>1</td>
<td>$922,200</td>
</tr>
<tr>
<td>3-E</td>
<td>Remeander / Stormwater BMP at 13th Ave</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Creek restoration (2.2ac), remeander (880LF) with stormwater BMP feature / outfall repair and associated streambank restoration at 13th Ave.</td>
<td>3-L</td>
<td>1</td>
<td>$1,266,000</td>
</tr>
<tr>
<td>3-F</td>
<td>Picnic Area at 11th Ave</td>
<td>Picnic Area</td>
<td>New Feature</td>
<td>Picnic area, including pollinator play lawn (75,000SF / 1.7ac)</td>
<td>3-B, 3-D</td>
<td>1</td>
<td>$87,000</td>
</tr>
<tr>
<td>3-G</td>
<td>Pedestrian Trail 12th Ave to Bloomington Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Pedestrian trail connection from 12th Ave to Bloomington Ave (1,350LF), including new stair connection east of 12th Ave.</td>
<td>3-H, 3-H-3-I</td>
<td>1</td>
<td>$267,000</td>
</tr>
<tr>
<td>3-H</td>
<td>Natural Surface Trail 12th Ave to Bloomington Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Natural surface trail (1,650LF) connection from 12th Ave to Bloomington Ave</td>
<td>3-G, 3-I</td>
<td>1</td>
<td>$14,000</td>
</tr>
<tr>
<td>3-I</td>
<td>Single Track Bike Trail 12th Ave to 16th Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Single-track biking trail course from 12th Ave to Bloomington, Bloomington to 16th Ave</td>
<td>3-G, 3-H, 3-J</td>
<td>1</td>
<td>$222,000</td>
</tr>
<tr>
<td>3-J</td>
<td>On-Street Bike Trail on Bloomington</td>
<td>Trail</td>
<td>New Feature</td>
<td>On-Street Bike Trail on Bloomington Ave bridge between Minnehaha Parkway and 50th Street. Includes intersection crossing treatments at 50th Street and Bloomington Ave.</td>
<td>3-I</td>
<td>1</td>
<td>$150,000</td>
</tr>
<tr>
<td>3-K</td>
<td>Pedestrian Trail along 16th Ave, 49th Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Pedestrian Trail from Bloomington Ave east along 16th Ave, 17th Ave east to Cedar Ave (1,830LF)</td>
<td>3-I, 3-E</td>
<td>1</td>
<td>$220,000</td>
</tr>
<tr>
<td>3-L</td>
<td>Natural Surface Trail from 16th Ave Pedestrian Bridge to Cedar Ave</td>
<td>Trail + Overlook</td>
<td>New Feature</td>
<td>Natural surface trail from 16th Ave pedestrian bridge east to Cedar Ave tunnel (1,640LF), including overlook and interpretive element</td>
<td>3-P</td>
<td>1</td>
<td>$155,000</td>
</tr>
<tr>
<td>3-M</td>
<td>Intersection Treatment at Bloomington Ave. (North)</td>
<td>Intersection Treatment</td>
<td>Reconstruction</td>
<td>Re-alignment of intersection and adjacent trail crossing, and bus stop improvements at Bloomington Ave.</td>
<td>3-J</td>
<td>2</td>
<td>$1,245,000</td>
</tr>
<tr>
<td>3-N</td>
<td>Bike and Pedestrian Trails from 16th Ave to Cedar Ave</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Bike trail reconstructed outside of the floodplain, pedestrian trail connection to existing tunnel at Cedar Avenue (2,600LF total)</td>
<td>3-O</td>
<td>1</td>
<td>$312,000</td>
</tr>
<tr>
<td>3-O</td>
<td>Bike Tunnel at Cedar Ave</td>
<td>Bike/Ped Tunnel</td>
<td>New Feature</td>
<td>Bike tunnel under Cedar Avenue and associated bike trail connection from 17th Ave</td>
<td>3-N</td>
<td>2</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>3-P</td>
<td>Stormwater BMP</td>
<td>Restoration</td>
<td>New Feature</td>
<td>Creek restoration, remeander (270LF) with stormwater BMP (restored wetland) (2.3acres)</td>
<td>3-L</td>
<td>2</td>
<td>$346,600</td>
</tr>
</tbody>
</table>

**SEGMENT 3 TOTAL $7,583,400**

*Table 7.6 Segment 3 Projects*
SEGMENT 3 PROJECTS (CONTINUED)

SEGMENT 3 PHASING

PHASE 1
Nearly all projects identified in Segment 3 (outside of the Focus Area) are Phase 1 projects, which are defined as:
» Projects that can be completed immediately, or as funding becomes available
» Projects that don’t depend on other projects to be completed first (can be completed anytime)
» Projects that are lower in cost

PHASE 1 PROJECTS INCLUDE:
» Creek restoration/remeander at Elliot Ave, 11th Avenue,
» Pedestrian trail, bridge and new creek access at 10th Ave
» Picnic area at 11th Avenue
» Pedestrian and bicycle trail connections, including natural surface hiking trails, single track bike trails, on-street bike trail connection along Bloomington Avenue

PHASE 2
» Projects that depend on certain Phase 1 projects to be completed
» Projects that are larger in scope that will require significant funding
» Projects that require further design exploration and community engagement

PHASE 2 PROJECTS INCLUDE:
» Intersection treatment and re-alignment at Bloomington Avenue
» Bike Tunnel at Cedar Avenue

GENERAL PROJECTS
Projects that are not included in the above project list are considered ‘General’
- Outfall Repair
- Intersection Treatments (where treatments don’t directly influence another project)
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is
Precedent examples of proposed features in Segment 3
PORTLAND AND THE PARKWAY FOCUS AREA PROJECTS

Figure 7.7 Portland and Parkway Focus Area Projects

- **CREEK RESTORATION:** Braided channel with restored floodplain forest
- **INTERSECTION RE-ALIGNED:** To accommodate creek restoration
- **TRAIL MOVED TO ACCOMMODATE CREEK RESTORATION**
- **ENERGY DISSIPATION AT STORMWATER OUTLET**
- **BANK STABILIZATION**
- **INTERSECTION RE-ALIGNED:** Three-way stop curb extensions
- **RE-CONSTRUCTED BRIDGE:** To accommodate creek remeander
- **CREEK RESTORATION:** To dissipate energy before 5th Ave. outfall
- **TRAFFIC CALMING:** Median, curb extensions, opposing one-ways
- **TRAFFIC CALMING:** Median, curb extensions, one-way conversion (eastbound) to Park Ave
- **UPGRADES AT THE BUNNY:** Bike racks, seating, drinking fountain, picnic table, permeable pavers, interpretation
- **BANK STABILIZATION**
- **INTERSECTIONS RE-ALIGNED WITH CURB EXTENSIONS**
- **CREEKSIDE OVERLOOK**
- **TRAFFIC CALMING:** Median, curb extensions, opposing one-ways
- **TRAFFIC CALMING:** Median, curb extensions, opposing one-ways
- **STORMWATER BMP:** Flood storage
- **100-YEAR FLOODPLANE**
- **MINNEHAHA CREEK (EXISTING)**
- **MINNEHAHA CREEK (PROPOSED)**
- **MINNEHAHA CREEK REMEANDER**

**KEY**
- Study area
- Bituminous trail
- Concrete walk
- Existing nonprofit trail
- Proposed nonprofit trail
- Existing bridge trail
- Proposed nonprofit bridge trail
- Proposed natural surface trail
- Recreation areas
- riparian natural area
- source management
- Pollution (engineering) lawn
- Buildings (proposed)
- Recreational activities (existing and proposed)
- Interpretation opportunity
- Public art opportunity

**NOTES**
- 100-year floodplain
- 2% contour
- MINNEHAHA CREEK (EXISTING)
- MINNEHAHA CREEK (PROPOSED)
- MINNEHAHA CREEK REMEANDER
- INTERSECTIONS RE-ALIGNED WITH CURB EXTENSIONS
- CREEKSIDE OVERLOOK
- TRAFFIC CALMING:
  - Median, curb extensions, opposing one-ways
  - One-way conversion of Minnehaha Parkway south of creek between Portland and Park
<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1-A</td>
<td>Ped Trail 4th Ave to 3rd Ave, north side of Creek</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Pedestrian trail moved out of the floodplain between 4th Ave and 3rd Ave on the north side of the Creek (1,300LF)</td>
<td>3.1-B</td>
<td>1</td>
<td>$156,000</td>
</tr>
<tr>
<td>3.1-B</td>
<td>Braided Channel at 51st Street/Tarrymore</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Creek restoration (2.6ac) and remeander (1,050LF) at 51st Street / Tarrymore. Shown as a braided channel. Includes picnic area and interpretive element.</td>
<td>3.1-A</td>
<td>1</td>
<td>$1,137,000</td>
</tr>
<tr>
<td>3.1-C</td>
<td>Bike Trail at 51st Street</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Bike trail reconstructed out of the floodplain and creek restoration area (300LF).</td>
<td>3.1-D, 3.1-E</td>
<td>1</td>
<td>$36,000</td>
</tr>
<tr>
<td>3.1-D</td>
<td>Creek Restoration at 50th Street Bridge</td>
<td>Remeander / Restoration</td>
<td>Restoration</td>
<td>Creek remeander (700LF) and associated restoration(1.5ac) in the area around the 50th Street Bridge.</td>
<td>3.1-C, 3.1-E</td>
<td>2</td>
<td>$698,000</td>
</tr>
<tr>
<td>3.1-E</td>
<td>Bridge Reconstruction at 50th Street</td>
<td>Bridge Reconstruction</td>
<td>Reconstruction</td>
<td>Bridge reconstruction to accommodate creek remeander and restoration</td>
<td>3.1-D</td>
<td>2</td>
<td>$5,800,000</td>
</tr>
<tr>
<td>3.1-F</td>
<td>Intersection Realignment at 4th Ave and 50th Street</td>
<td>Intersection Treatment</td>
<td>Reconstruction</td>
<td>Intersection re-alignment and intersection treatments to improve pedestrian connections at 4th Ave and 50th Street</td>
<td>3.1-E</td>
<td>2</td>
<td>$413,000</td>
</tr>
<tr>
<td>3.1-G</td>
<td>Intersection Treatment at 50th Street and Minnehaha Parkway</td>
<td>Intersection Treatment</td>
<td>Reconstruction</td>
<td>Intersection realignment, including addition of 3-way stop and associated intersection treatments for improved pedestrian and bicycle safety. Includes medians on 50th Street east of 4th Ave</td>
<td>3.1-E</td>
<td>1: PRIORITY PROJECT</td>
<td>$660,000</td>
</tr>
<tr>
<td>3.1-H</td>
<td>Stormwater BMP at 5th Avenue Outlet</td>
<td>BMP</td>
<td>Restoration</td>
<td>Restoration / BMP to repair outlet and dissipate energy at 5th Avenue. Includes associated restoration work in this area (0.32ac).</td>
<td>3.1-E</td>
<td>1: PRIORITY PROJECT</td>
<td>$450,000</td>
</tr>
<tr>
<td>3.1-I</td>
<td>Sidewalk West of Portland Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Sidewalk construction on north side of Minnehaha Parkway between Portland Ave and 50th Street Bridge (400LF)</td>
<td>3.1-E</td>
<td>1</td>
<td>$48,000</td>
</tr>
<tr>
<td>3.1-J</td>
<td>Traffic Calming on Minnehaha Parkway (North and South), 4th Ave to Park Ave</td>
<td>Traffic Calming</td>
<td>New Feature</td>
<td>Traffic calming measures between 4th Ave and Park Ave on Minnehaha Parkway (north), including curb extensions, high visibility crosswalks, medians with pedestrian islands on Portland, and one-way conversions.</td>
<td>3.1-F, 3.1-L, 3.1-N</td>
<td>1: PRIORITY PROJECT</td>
<td>$368,000</td>
</tr>
<tr>
<td>3.1-K</td>
<td>BMP at Oakland and Park Ave</td>
<td>BMP</td>
<td>New Feature</td>
<td>Stormwater BMP between Oakland and Park Ave, including transition to pollinator lawn (0.5ac)</td>
<td>3.1-L</td>
<td>1</td>
<td>$175,890</td>
</tr>
<tr>
<td>3.1-L</td>
<td>Intersection Treatment at Park Ave</td>
<td>Intersection Treatment</td>
<td>Reconstruction</td>
<td>Intersection realignment at Park Ave to reduce roadway width. Includes intersection treatments for increased pedestrian safety at roadway crossings</td>
<td>3.1-J</td>
<td>1</td>
<td>$825,000</td>
</tr>
<tr>
<td>3.1-M</td>
<td>Overlook at Park Ave</td>
<td>Overlook</td>
<td>New Feature</td>
<td>Creekside overlook with interpretive element at Park Ave</td>
<td>3.1-L</td>
<td>1</td>
<td>$90,000</td>
</tr>
<tr>
<td>3.1-N</td>
<td>Upgrades at the Bunny</td>
<td>Picnic Area</td>
<td>New Feature</td>
<td>Trail amenities at the Bunny (Portland Ave) to include bike racks, seating, drinking fountain, picnic table, permeable pavers, and interpretation</td>
<td>3.1-J</td>
<td>1</td>
<td>$270,000</td>
</tr>
</tbody>
</table>

Table 7.7 Portland and Parkway Focus Area Projects
PORTLAND AND THE PARKWAY FOCUS AREA PHASING

PHASE 1
» Projects that can be completed immediately, or as funding becomes available
» Projects that don’t depend on other projects to be completed first (can be completed anytime)
» Projects that are lower in cost

PHASE 1 PROJECTS INCLUDE:
» Pedestrian and bicycle trail reconstruction along the Creek, south of the 50th Avenue Bridge
» Remeander and restoration of a braided channel at 51st Street/Tarrymore
» Intersection treatment at 50th Street and Minnehaha Parkway
» Stormwater BMP improvement at 5th Street Outlet
» Sidewalk west of Portland Avenue along Minnehaha Parkway
» Traffic calming on Minnehaha Parkway between 4th Avenue and Park Avenue
» Stormwater BMP and pollinator lawn at Oakland and Park Avenue
» Intersection treatment at Park Avenue
» Overlook at Park Avenue
» Trail amenity upgrades at The Bunny

PHASE 2
» Projects that depend on certain Phase 1 projects to be completed
» Projects that are larger in scope that will require significant funding
» Projects that require further design exploration and community engagement

PHASE 2 PROJECTS INCLUDE:
» Reconstruction of the 50th Street Bridge and associated creek restoration
» Intersection re-alignment at 4th Avenue and 50th Street

GENERAL PROJECTS
Projects that are not included in the above project list are considered ‘General’
- Outfall Repair
- Intersection Treatments
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is
Precedent imagery of proposed features in the Portland and the Parkway Focus Area
SEGMENT 4 PROJECTS

SEGMENT 4 PHASING

PHASE 1
Nearly all projects identified in Segment 3 (outside of the Focus Area) are Phase 1 projects, which are defined as:
» Projects that can be completed immediately, or as funding becomes available
» Projects that don’t depend on other projects to be completed first (can be completed anytime)
» Smaller (in cost) projects

PHASE 1 PROJECTS INCLUDE:
» Bike Park at 34th Avenue
» MPRT Gateway Sign and Kiosk at the eastern entry to the park (39th/Hiawatha Avenue)
» Storywalk (interpretive walk) in the Parkway boulevard between 28th Avenue and 39th Avenue
» ADA Creek Takout at 39th Avenue

PHASE 2
» Projects that are dependent on Phase 1 to be completed
» Projects that are larger in scope and will require significant funding
» Smaller projects that can be lumped with major Phase 2 projects
» Projects that require further design exploration and community engagement

PHASE 2 PROJECTS INCLUDE:
» Remeander and stormwater BMP at 28th/30th Avenue

PHASE 3
» Projects that are dependent on Phase 2 to be completed
» Projects that are larger in scope and will require significant funding
» Projects that require further design exploration and community engagement

PHASE 3 PROJECTS INCLUDE:
» Pedestrian and bicycle trail reconstruction to accommodate creek restoration at 28th/30th Avenue
» Creek restoration/stormwater BMP at Nokomis/32nd Avenue
» Underground flood storage at 34th Avenue
» Creek restoration with constructed wetland at 36th Avenue/Hiawatha Avenue
» Pedestrian trail and boardwalk/overlook along 36th Avenue
» Creek restoration at 34th Avenue
### Table 7.8 Segment 4 Projects

<table>
<thead>
<tr>
<th>TAG</th>
<th>PROJECT NAME</th>
<th>PROJECT TYPE</th>
<th>ACTION</th>
<th>EXTENTS / DIMENSIONS</th>
<th>RELATED PROJECTS</th>
<th>PHASE</th>
<th>EST. COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-A</td>
<td>Ped and Bike Trail 28th Ave to 30th Ave</td>
<td>Trail</td>
<td>Reconstruction</td>
<td>Reconstruction of bike and ped trails to accommodate restoration/BMP areas (1800LF)</td>
<td>4-B</td>
<td>3</td>
<td>$216,000</td>
</tr>
<tr>
<td>4-B</td>
<td>Remeander and BMP 28th Ave to 30th Ave</td>
<td>Remeander/BMP</td>
<td>Restoration</td>
<td>Remeander (710LF) and stormwater BMP (0.5ac) between 28th Ave to 30th Ave</td>
<td>4-A</td>
<td>2</td>
<td>$662,000</td>
</tr>
<tr>
<td>4-C</td>
<td>BMP and Creek Restoration Nokomis to 32nd Ave</td>
<td>Remeander/BMP</td>
<td>Restoration</td>
<td>Remeander (885LF) and stormwater BMP between Nokomis and 32nd Ave and restoration area (1.7ac)</td>
<td>4-A</td>
<td>3</td>
<td>$962,000</td>
</tr>
<tr>
<td>4-D</td>
<td>Bike Park at 34th Ave</td>
<td>Bike Park</td>
<td>New Feature/Repurpose</td>
<td>Conversion of existing tennis court at 34th Ave into Bike Skills Course</td>
<td>4-A, 4-B</td>
<td>1</td>
<td>$300,000</td>
</tr>
<tr>
<td>4-E</td>
<td>Underground Flood Storage at 34th Ave</td>
<td>BMP</td>
<td>New Feature</td>
<td>Underground flood storage BMP (1.5ac) with pollinator lawn at grade</td>
<td>4-A, 4-B</td>
<td>3</td>
<td>$4,792,000</td>
</tr>
<tr>
<td>4-F</td>
<td>Creek Restoration 36th Ave to Hiawatha</td>
<td>Restoration</td>
<td>Restoration</td>
<td>Creek restoration with constructed wetland (5.8ac with 1,635 LF remeander)</td>
<td>4-H</td>
<td>3</td>
<td>$1,733,000</td>
</tr>
<tr>
<td>4-G</td>
<td>Pedestrian Trail and Boardwalk 39th Ave</td>
<td>Trail</td>
<td>New Feature/Reconstruction</td>
<td>Trail reconstruction (635 LF) and boardwalk (500 LF) with wetland overlook to accommodate adjacent restoration work</td>
<td>4-F, 4-H</td>
<td>3</td>
<td>$316,200</td>
</tr>
<tr>
<td>4-H</td>
<td>MPRT Gateway Sign and Kiosk at 39th Ave</td>
<td>Wayfinding</td>
<td>New Feature</td>
<td>Gateway sign and MPRB Kiosk at 39th Avenue</td>
<td>4-G, 4-K</td>
<td>1</td>
<td>$50,000</td>
</tr>
<tr>
<td>4-I</td>
<td>Restoration at 34th Ave</td>
<td>Remeander/Restoration</td>
<td>Restoration</td>
<td>Creek restoration (3.5ac) and remeander (1040 LF) at 34th Avenue</td>
<td>4-G, 4-K</td>
<td>3</td>
<td>$1,094,000</td>
</tr>
<tr>
<td>4-J</td>
<td>Storywalk 28th Ave to 39th Ave</td>
<td>Trail</td>
<td>New Feature</td>
<td>Natural surface trail (4,000 LF) with interpretation, public art, pollinator lawn and native landscape restoration (up to 9.6ac) throughout the Parkway boulevard.</td>
<td>4-G, 4-K</td>
<td>1</td>
<td>$687,000</td>
</tr>
<tr>
<td>4-K</td>
<td>ADA Creek Takeout</td>
<td>Creek Access</td>
<td>New Feature</td>
<td>Takeout for paddlers at 39th Avenue with ADA accessibility and nearby parking. Last takeout before Minnehaha Falls.</td>
<td>4-H</td>
<td>1</td>
<td>$120,000</td>
</tr>
<tr>
<td>4-L</td>
<td>Tennis Court Removal and Pollinator Lawn at 30th Ave</td>
<td>Restoration</td>
<td>Restoration</td>
<td>Removal of existing tennis court and seeding for pollinator lawn (0.82 acres) at field along 30th Avenue north of the Creek.</td>
<td>4-H</td>
<td>1</td>
<td>$177,000</td>
</tr>
<tr>
<td>4-M</td>
<td>Renovation of Tennis Court at 32nd Avenue</td>
<td>Renovation</td>
<td>Renovation</td>
<td>Renovation (resurfacing) of existing tennis courts at 32nd Avenue (3 courts)</td>
<td>4-H</td>
<td>1</td>
<td>$195,000</td>
</tr>
</tbody>
</table>

**Segment 4 Total** $11,304,200

### General Projects
Projects that are not included in the above project list are considered ‘General’
- Outfall Repair
- Intersection Treatments
- Native plant community restoration and transition areas for pollinator lawns
- Trail repair or maintenance of existing facilities to remain as-is

**Precedent examples of proposed features in Segment 4**
OVERALL ESTIMATED COSTS

The following is a summary of estimated project costs shown on the previous pages. It is important to note that not all of these costs will be borne by MPRB. This master plan includes costs for a variety of elements that may be jointly implemented with partner agencies. Examples of such projects include road modifications, creek re-landers, and stormwater BMPs. The master plan and its cost estimates are meant to guide the efforts of multiple agencies. These costs are also beneficial when seeking outside grants for specific work. MPRB recognizes that total estimated costs of a 30-year master plan can seem high. The costs represented below represent an "all-in" $3.6 million investment per year by all parties.

<table>
<thead>
<tr>
<th>SEGMENT OR FOCUS AREA</th>
<th>ESTIMATED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Segment 1</td>
<td>$1,104,500</td>
</tr>
<tr>
<td>Penn-Newton-Morgan Focus Area</td>
<td>$8,496,000</td>
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<tr>
<td>Lynnhurst Focus Area</td>
<td>$59,950,863</td>
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<tr>
<td>Segment 2</td>
<td>$2,922,100</td>
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<tr>
<td>Nicollet Hollow Focus Area</td>
<td>$5,275,500</td>
</tr>
<tr>
<td>Segment 3</td>
<td>$7,583,400</td>
</tr>
<tr>
<td>Portland &amp; Parkway Focus Area</td>
<td>$11,126,890</td>
</tr>
<tr>
<td>Segment 4</td>
<td>$11,304,200</td>
</tr>
<tr>
<td><strong>TOTAL ESTIMATED COSTS</strong></td>
<td><strong>$107,763,453</strong></td>
</tr>
</tbody>
</table>

Table 7.9 Overall Estimated Costs for 30-Year Plan

PROJECT IMPLEMENTATION

BOUNDARIES AND ACQUISITION

There are no new property acquisitions necessary by MPRB to implement this master plan. At Lynnhurst Park, MPRB may propose a boundary change to the Regional Trail, though additional land to be added to the regional facility will be land owned by MPRB. Such a change would accommodate future development of the proposed environmental-themed community center, the construction of a new bridge/overpass at 50th Street, and the daylighting of the tributary from Lake Harriet.

OPERATIONS AND MAINTENANCE COSTS

MPRB to provide further information in final draft plan.

CAPITAL IMPROVEMENTS

The MPRB, MCWD, and the City of Minneapolis share responsibility for improving the environmental quality within the Minnehaha Creek corridor in Minneapolis and recognize that their mutual goals are best achieved through integrated land and water resource planning. As such, in the 2017 MOU, the three agencies memorialized their commitment to work together in pursuit of a balanced urban ecology that integrates goals and plans for the natural and built environments. To help accomplish this, the agencies have utilized the Minnehaha Parkway Regional Trail project to outline how the three agencies will work together to coordinate and align policies, plans, and capital improvements to improve the natural and built environments within the Minnehaha Creek corridor. Wherever possible, all three agencies are working to integrate natural resource goals across disciplines to intersect with planned recreational improvements, infrastructure improvements, and development, to reduce cost and maximize public benefit. To help facilitate this, the agencies are working to develop a joint short and long-term capital improvement plan that will outline project planning, cost-sharing, and investment strategies for implementation.

A recently constructed trail segment at Lyndale Avenue

Streambank restoration projects taking place along the Creek
Visit minneapolismn.gov/cip/index.htm to view a current map.

Figure 7.9 Screenshot taken 5/21 from City of Minneapolis Public Works Capital Improvement Projects (CIP) Interactive Map