MAPLEWOOD MALL  
Rainwater Runoff Retrofit Project

**Project Summary**
Designed to improve the water quality in Kohlman Lake (and ultimately the Mississippi River), the Maplewood Mall Rainwater Runoff Retrofit Project reduces and filters rainwater runoff before it leaves the mall’s 35-acre parking lot. The project includes several features: a cistern that captures roof runoff, rainwater gardens, rainwater tree groves, and permeable pavers.

**Project Cost and Funding Sources**

**Phase I**
- District CIB Levy $600,000

**Phase II**
- District CIB Levy $700,000
- Clean Water Fund Grant $500,000

**Phase III**
- District CIB Levy $700,000
- MPCA 319 Grant $500,000

**Phase IV**
- Clean Water Fund Grant $625,000
- TMDL Implementation Grant $1,250,000
- PFA CWRF Loan $1,177,217
- PFA CWRF Grant $392,406

**Project Partners**
- Simon Property Group
- City of Maplewood
- Ramsey County

**Features & Benefits**

- **55 RAINWATER GARDENS**
  - They filter 9 million gallons of runoff*

- **6,733 SQ FT. OF PERMEABLE PAVERS**
  - They infiltrate 260,000 gallons of runoff*

- **1 CISTERN**
  - It holds 5,700 gallons of roof runoff

- **375 TREES**
  - 11.2 million gallons of runoff brought into the tree trenches**

**Understanding the Impact**
67% of water from the parking lot is now captured or infiltrated at the mall, up from 3% prior to project implementation.

Learn more at www.rwmwd.org
Project Summary
Maplewood’s Living Streets project was developed to help reduce the amount of polluted runoff flowing into area lakes and the Mississippi River. “Living Streets” stems from a concept in which streets are more than a facility for driving and parking cars. They improve neighborhood function by narrowing streets to reduce traffic speed and incorporate sidewalks to improve walkability. They address environmental issues by treating stormwater and shading hot pavement.

Project Cost and Funding Sources

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Clean Water Grant</td>
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<tr>
<td>RWMWD</td>
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<td>Special Assessments</td>
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<td>City G.O. Funds</td>
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<td>Utility Funds</td>
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<td><strong>TOTAL</strong></td>
<td><strong>$4,298,610</strong></td>
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Project Partner
City of Maplewood

Project Results
Streets were narrowed from 32’ wide to 24’ and 1.5 miles of sidewalks were added, but overall pavement was reduced by 1 acre. These changes result in improved function and livability for the neighborhood.

Features & Benefits

- **32 RAINWATER GARDENS**
- **1 REGIONAL FILTRATION BASIN**
- **200 DROUGHT-TOLERANT TREES**

Together they sequester 40 tons of CO₂ per year

Understanding the Impact
50% of water in the street is filtered/infiltrated, 10% of the water runs off, and 40% evaporates.