Scholarships and Awards Program

January 26, 2022

CEAM Annual Meeting

Earle Brown Heritage Center

Scholarships

Annual CEAM Scholarship Amounts

- $4,000 for 6 University Students
- $2,500 for 2 Technical School Students

CITY ENGINEERS ASSOCIATION OF MINNESOTA

Engineering Our Cities' Futures

Scholarships

Thank you to the Scholarship Committee!

Chair: John Sachi, WSB
Members:
John Gorder (2nd Past President) – City of Eagan

Phil Gravel – Stantec

Ross Beckwith – City of West St. Paul

Roger Clay – Ulteig

Matt Hansen – SRF

Julie Long – City of Bloomington

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Scholarship Recipients

CITY ENGINEERS ASSOCIATION OF MINNESOTA
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University of Minnesota – Twin Cities ($4,000 each)

- Noah Struck
- Madeline Fidler
- Dylan Blom
- Lydia Anshus

Minnesota State University at Mankato ($4,000 each)

- Molly Hill

University of Minnesota - Duluth ($4,000 each)

- Abigail Norman

St. Cloud Technical and Community College ($2,500 each)

- Adam Kremer
- Wayne Duhoux

Annual Award Recognition

The **Project of the Year Award** recognizes the outstanding engineering projects that have contributed to our state's quality of life.

The **Engineer of the Year Award** recognizes the contributions and accomplishments of outstanding engineers across the state.

Project of the Year – Honorable Mention

Honorable Mention - City of Northfield

TH 246 & Jefferson Parkway Roundabout Project

City of Northfield – David Bennett, PE – Public Works Director/City Engineer

Contractor: Hesselton Construction

Engineer: SEH

CITY ENGINEERS ASSOCIATION OF MINNESOTA

Engineering Our Cities' Futures

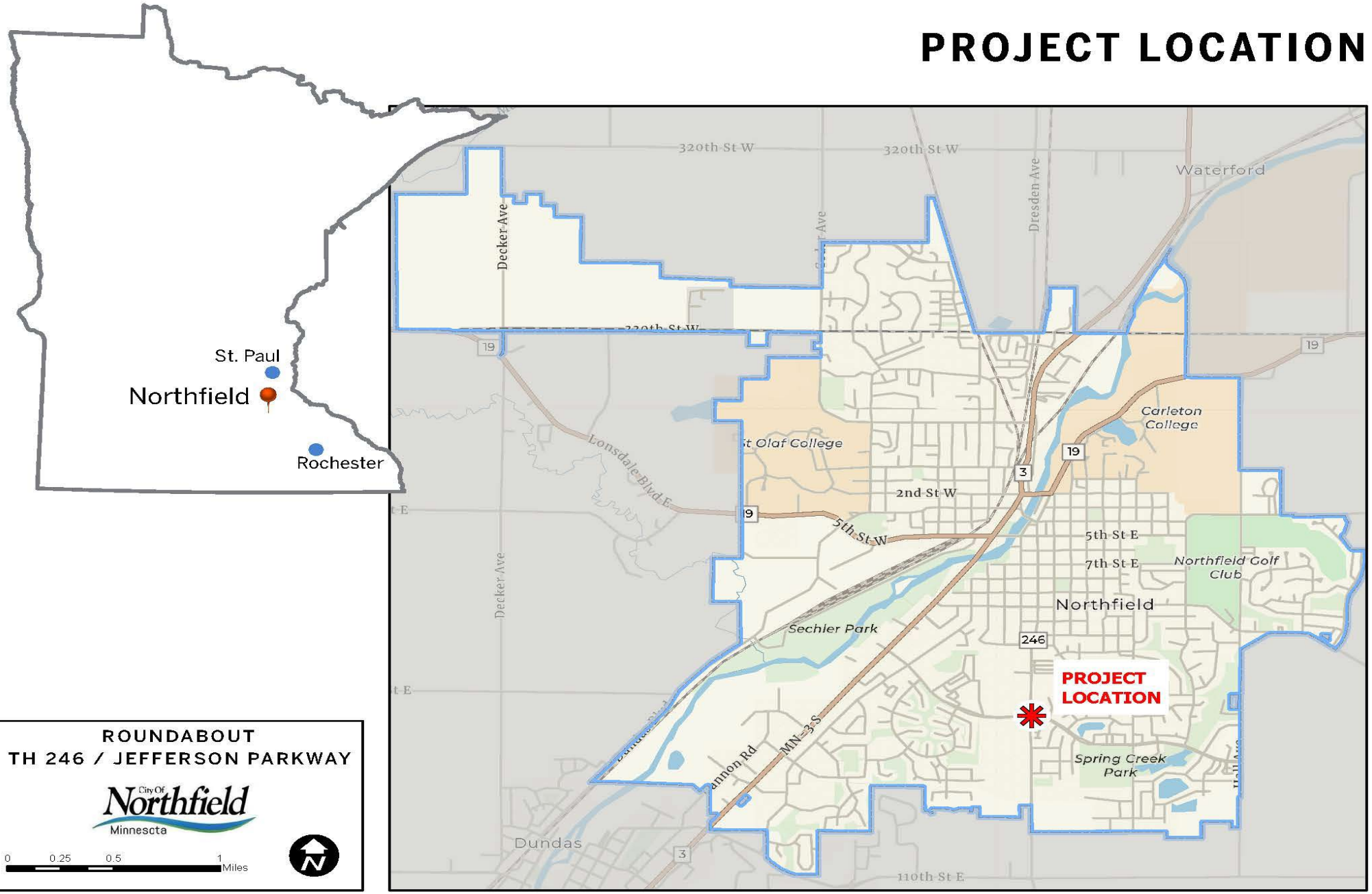
City of Northfield
TH246 & Jefferson Parkway Roundabout Project

January 26, 2022 | City Engineers Association of Minnesota (CEAM)

SEH

City Of Northfield Minnesota

PROJECT LOCATION



Project Need

Improve operation and safety for all users.

Project Timeline

2008	Comprehensive Plan
2009	Safe Routes to School
2012	Gateway Plan
2016	Traffic Study – ICE
2017 / 2018	Funding (LPP & LRIP)
2019	Approvals – City & MnDOT
2020	Construction

SEH

City Of Northfield Minnesota

Creating a project that aligns with City Plans and Goals

Follow City Plans:

- Safe Routes to School (2009)
- Complete Streets Policy (2012)
- Gateway Plan (2012)
- Intersection Control Evaluation (2016)
- Traffic Impact Analysis (2016)

Developed 4 Alternatives

Engaged:

- The Public
- Stakeholders – School District, MnDOT, MnDNR
- Mayor's Youth Council
- Northfield Arts & Culture Commission

SEH

City Of Northfield Minnesota

Project Elements

- Grade separated pedestrian underpasses
- Future Trail Connections:
  - Mill Towns State Trail & Downtown Spur
- Lighting: Pedestrian, Underpass, and Roadway
- Bikeway Access Ramps

SEH

City Of Northfield Minnesota

Project Elements

- Enhanced landscape planting
- Monument Signage
- Future public art space

SEH

City Of Northfield Minnesota

Project

SEH

City Of Northfield Minnesota

Underpasses

City Commissioned Minneapolis Artist:

Adam Turman

Four Biomes:

- **River**
- **Big Woods**
- **Oak Savannah**
- **Prairie**

SEH

City Of Northfield Minnesota

Thank you project partners:

Heselton Construction, Northfield School District, MnDNR, MnDOT State Aid / Trunk Highways and SEH

Thank you, CEAM!

Project of the Year – Honorable Mention

Honorable Mention – City of Roseville

RCD 4 Storm Sewer Installation and Twin Lakes Trail Improvements

City of Roseville: Jesse Freihammer, PE – City Engineer/Assistant Public Works Director

Contractor: Meyer Contracting

Design/Testing Engineers: Houston Engineering and WSB

CITY ENGINEERS ASSOCIATION OF MINNESOTA

Engineering Our Cities' Futures

Ramsey County Ditch 4 Storm Sewer Installation & Twin Lakes Trail Improvements

ROSEVILLE

RCD 4 & Twin Lakes Trail

Project Need & Scope

Need

- How to maintain existing ditch with new redevelopments adjacent to the ditch?
- Ditch in need of maintenance
  - Erosion
  - Vegetation
  - Sedimentation

RCD 4 & Twin Lakes Trail

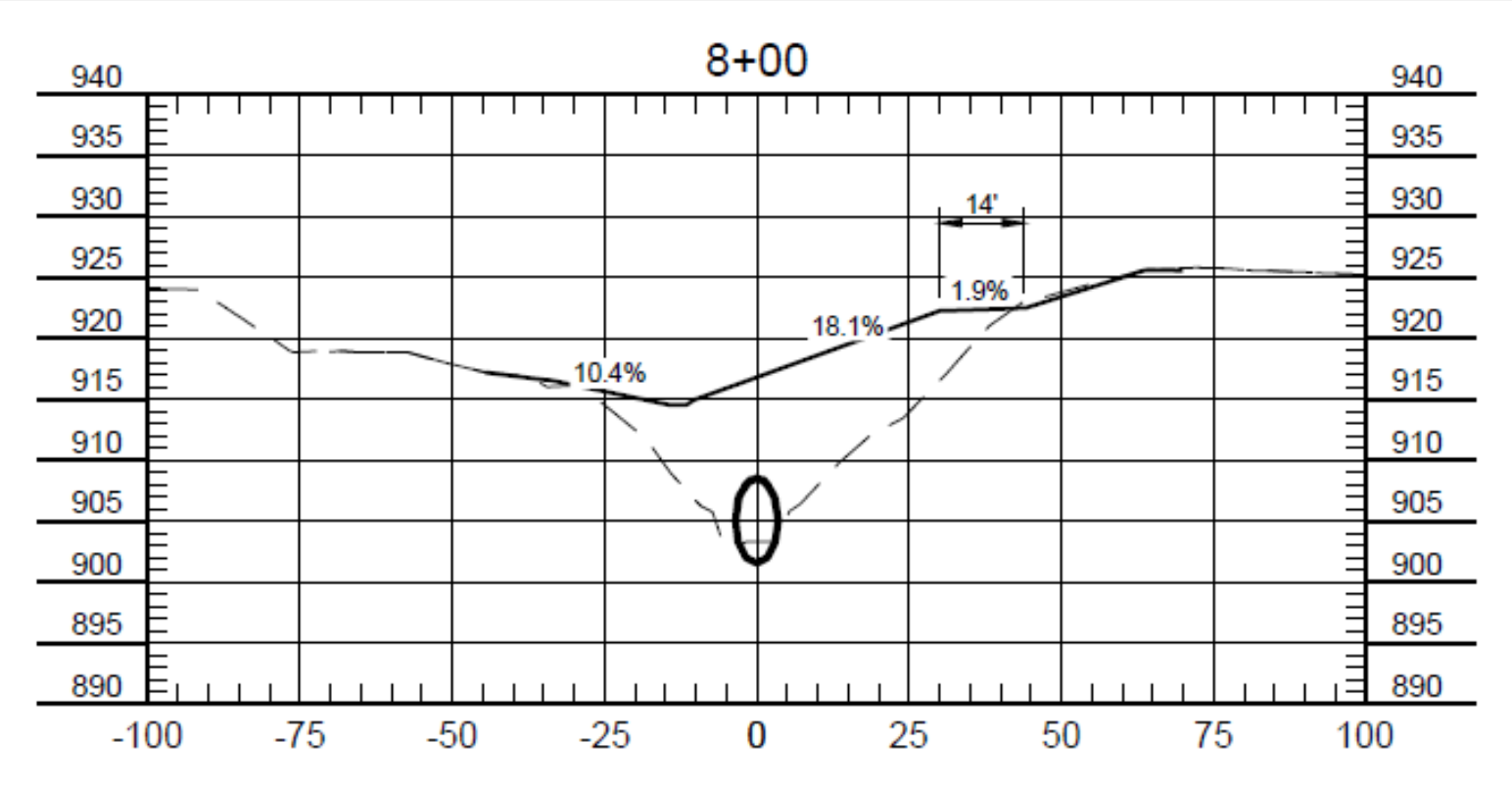
Existing Ditch

RCD 4 & Twin Lakes Trail

Existing Conditions

RCD 4 & Twin Lakes Trail

Project Scope



Scope

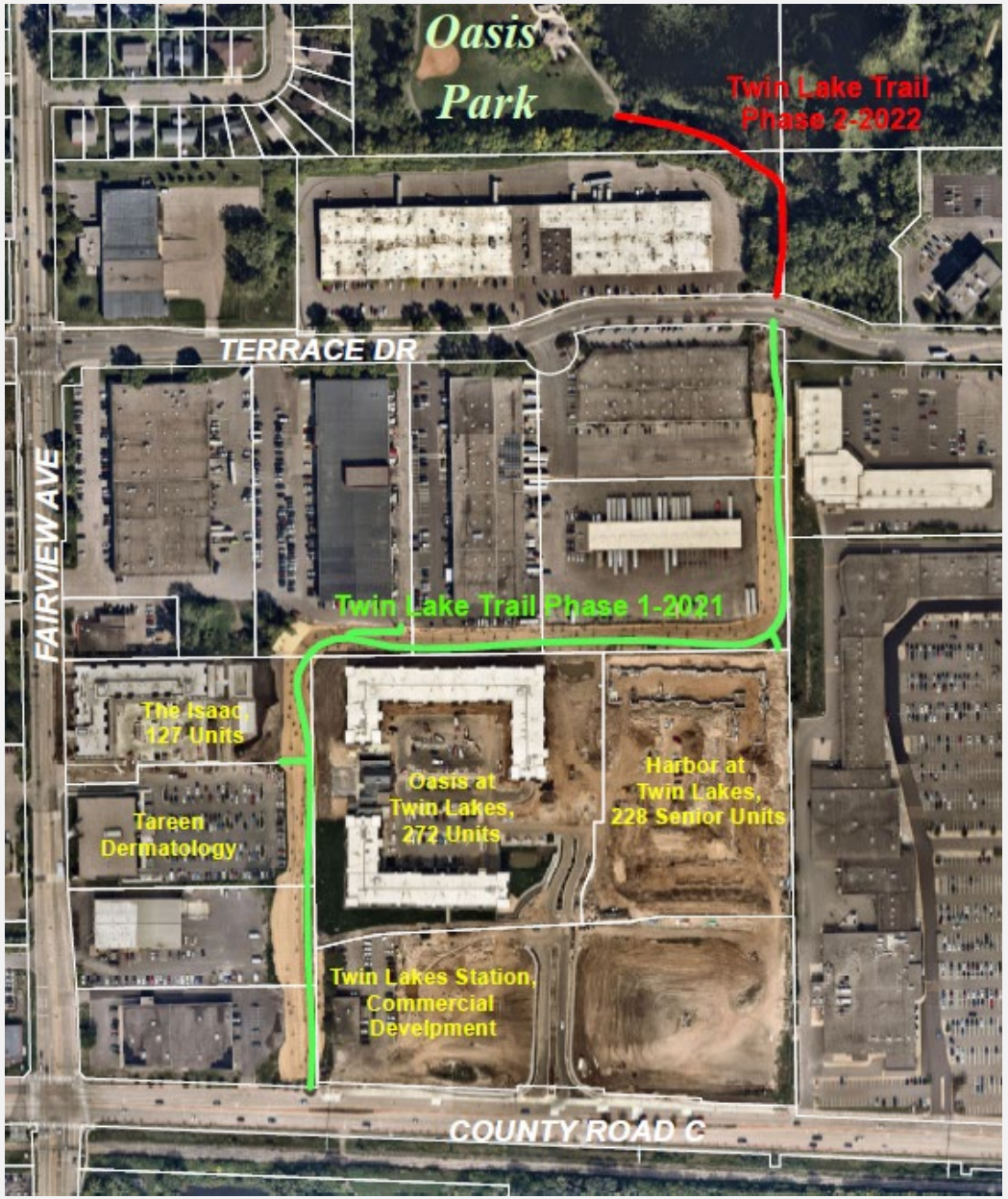
- Replace 2,500-foot-long ditch with 84” storm pipe
- Backfilled ditch allowed for construction of 10-foot multi-use trail
  - 47,000 CY of backfill needed
    - 27,000 CY from adjacent site stockpile
- 10-foot-wide bituminous trail including connections to adjacent properties
- Pedestrian lighting
- Benches, trash and recycling receptacles
- Trees and landscaping

RCD 4 & Twin Lakes Trail

Project Benefits

Benefits

- Reduced repair and maintenance costs associated with the open channel
- Water quality improvements by reducing sediment delivery to downstream Oasis Pond (RCWD sedimentation basin)
- Upstream floodplain reduction
- Improved public safety
  - Eliminated deep channel water hazard adjacent to 692 units of new housing
- Increasing land area available for higher value land uses
  - Improved pedestrian and bike access in the area and for new developments
- Timing reduced costs to City and Developers
  - $500,000 savings by stockpiling fill for ditch
  - Eliminated some internal trails needed by developers



RCD 4 & Twin Lakes Trail Project

Partnerships & Collaboration

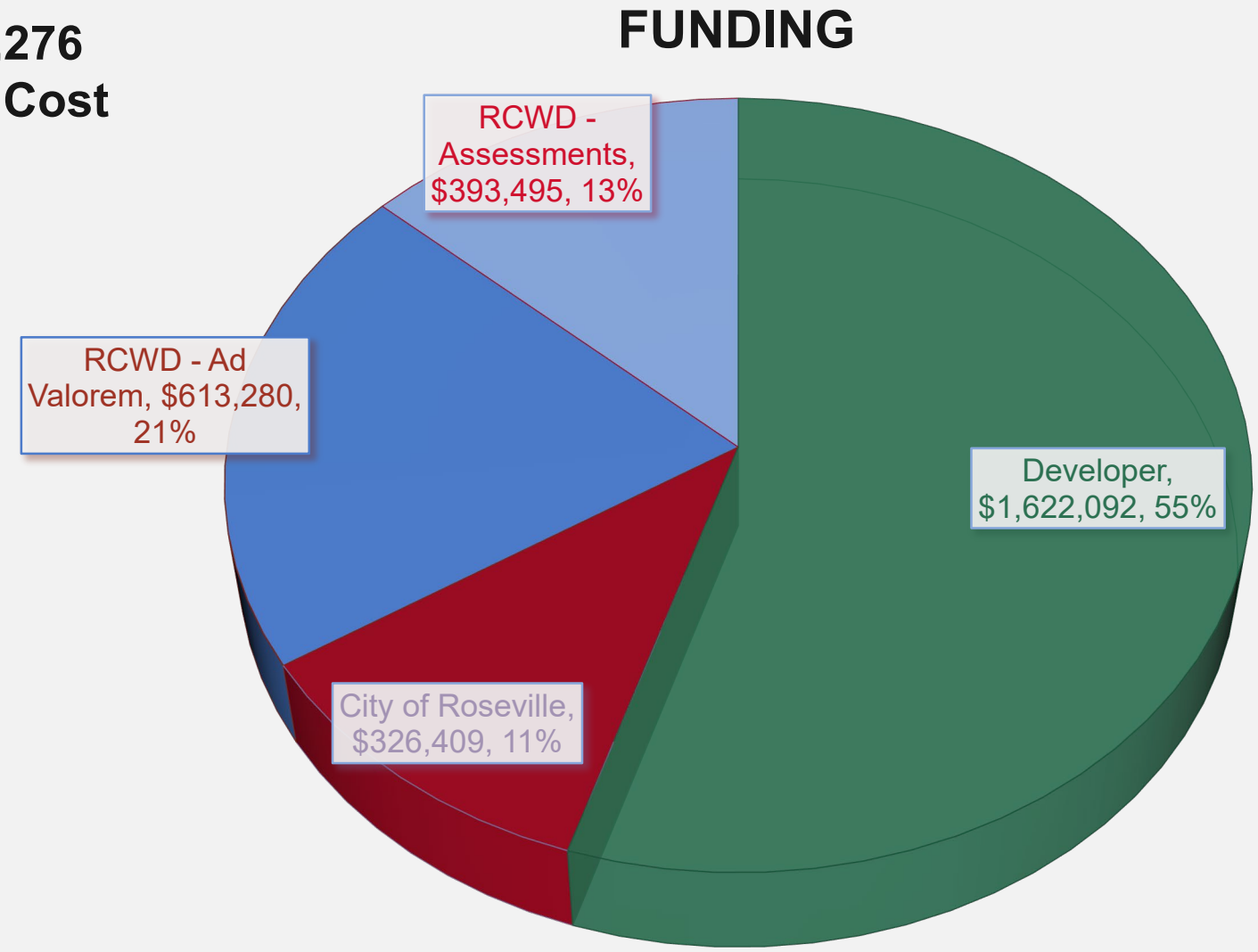
- **Project Owner**
  - City of Roseville
  - Rice Creek Watershed District (Transferred Ownership to City)
- **RCD 4 Storm Sewer Design Engineer -** Houston Engineering
- **Trail Design and Testing Engineer –** WSB
- **Construction Survey -** WSB
- **Contract Administration -** City of Roseville
- **General Contractor -** Meyer Contracting, Inc.

- **Funding Partners**
  - Launch Properties
  - Dominium
    - Harbor at Twin Lakes Apartments
    - Oasis at Twin Lakes Apartments
  - Reuter Walton Development
    - Isaac Apartments
  - Tareen Dermatology
  - Rice Creek Watershed District
- **Developers Contractors & Engineers**
  - Eagle Builders, Designing Earth, Kimley-Horn, Loucks, Civil Site

RCD 4 & Twin Lakes Trail Project

Project Funding

- **Total Project Cost - $2,955,276**
  - **Construction Contract Cost**
    - **$2,775,677**
  - **Engineering Costs**
    - **$109,970**
  - **Stockpile Costs**
    - **$57,600**
  - **Misc. Costs**
    - **$12,029**



RCD 4 & Twin Lakes Trail

Construction

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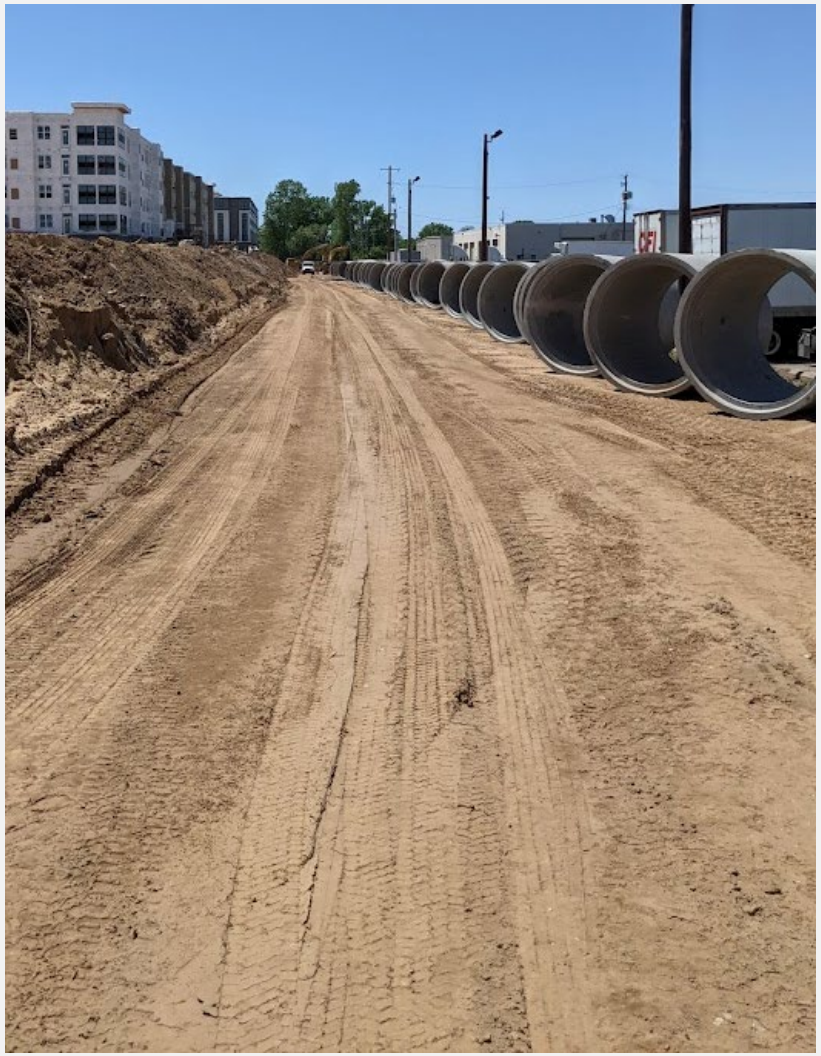


RCD 4 & Twin Lakes Trail

Construction

RCD 4 & Twin Lakes Trail

Construction

RCD 4 & Twin Lakes Trail

Construction

RCD 4 & Twin Lakes Trail

Construction

Project of the Year

Project of the Year – City of St. Louis Park

Historic Walker Lake Street and Alley Reconstruction

City of St. Louis Park: Deb Heiser, PE – Engineering Director

Contractor: Phase I – Minger Construction; Phase 2 – Eureka Construction

Engineer: Planning Phase – Asakura Robinson; Phase 1 – SRF Consulting; Phase 2 – Kimley-Horn

CITY ENGINEERS ASSOCIATION OF MINNESOTA

Engineering Our Cities' Futures

Historic Walker-Lake Street and Alley Construction

2022 City Engineers Association of Minnesota Annual Conference

ASAKURA ROBINSON

SRF

Kimley»Horn
Expect More. Experience Better.

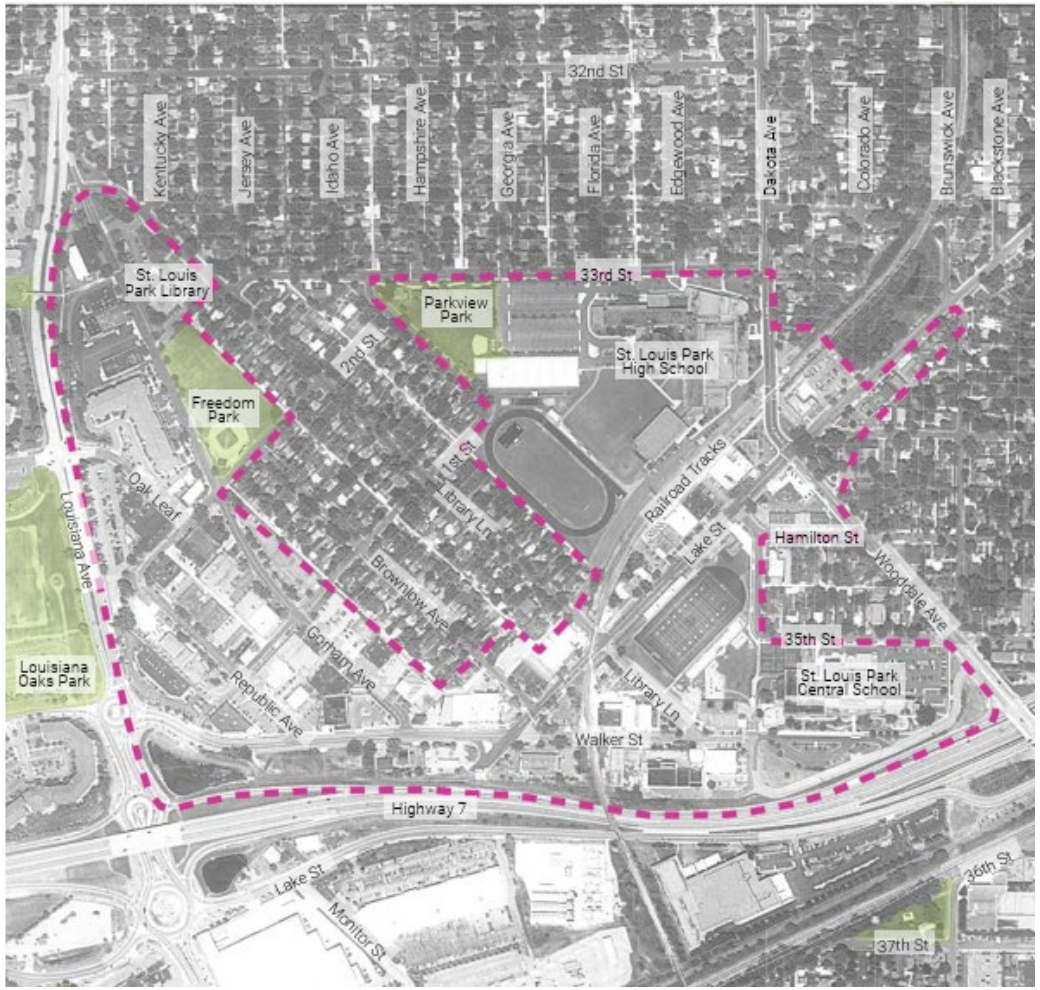
Minger Construction

EUREKA CONSTRUCTION, INC.

St. Louis Park
MINNESOTA

Area background

- Area established in 1888 by TE Walker as an industrial use
- Consists of a diverse mix of land uses
- Aging infrastructure
- Lack of accessibility
- Did not meet multi-modal needs of the community



Project vision

- City initiative to revive Historic Walker Lake District
  - Goal :: Enhance visitor experience and social environment
  - Goal :: Enhance the quantity and quality of mobility (bike, pedestrian, transit)
  - Goal :: Create business organization
- St. Louis Park Historic Walker-Lake Activation Plan
- 2040 Comprehensive Plan
- Historic Walker-Lake District Revitalization Plan

Preconstruction

Preconstruction

Preconstruction

District activities

- Oriole Stadium - Sporting events/pep rallies
- Farmer’s market
- District art fair
- Holiday train

Community relations

- Public open houses
- Business owner surveys and workshops
- Adopted new MX-2 Neighborhood Mixed Use Zoning
- Assistance in forming non-profit business organization

Design challenges

"The most difficult three blocks I've ever had to build"

- District in need of an identity
- Project within MPCA brownfield site
- Non-Compliant ADA business access
- Localized alley flooding issues for businesses
- Pedestrian safety and access to Oriole Stadium
- Lack of ADA connections
- At-grade railroad crossings / permitting
- Aging public utility infrastructure
- Limited parking
- Redundant transit stops

Design characteristics and features

- District identity aesthetics
- Enhanced streetscape and landscaping
- Improved pedestrian connectivity and ADA compliant access to businesses
- Enhanced RRFB crossing to Oriole Stadium
- Underground storm water detention system

Design characteristics and features

- Library Lane railroad crossing / ADA Connectivity
- Realignment of Brownlow Avenue / Walker Street / Lake Street
- Public green space
- Dual purpose on-street parking and block party event space for food trucks
- 4-Intermediate level utility crossings under railroad tracks

Environmental considerations

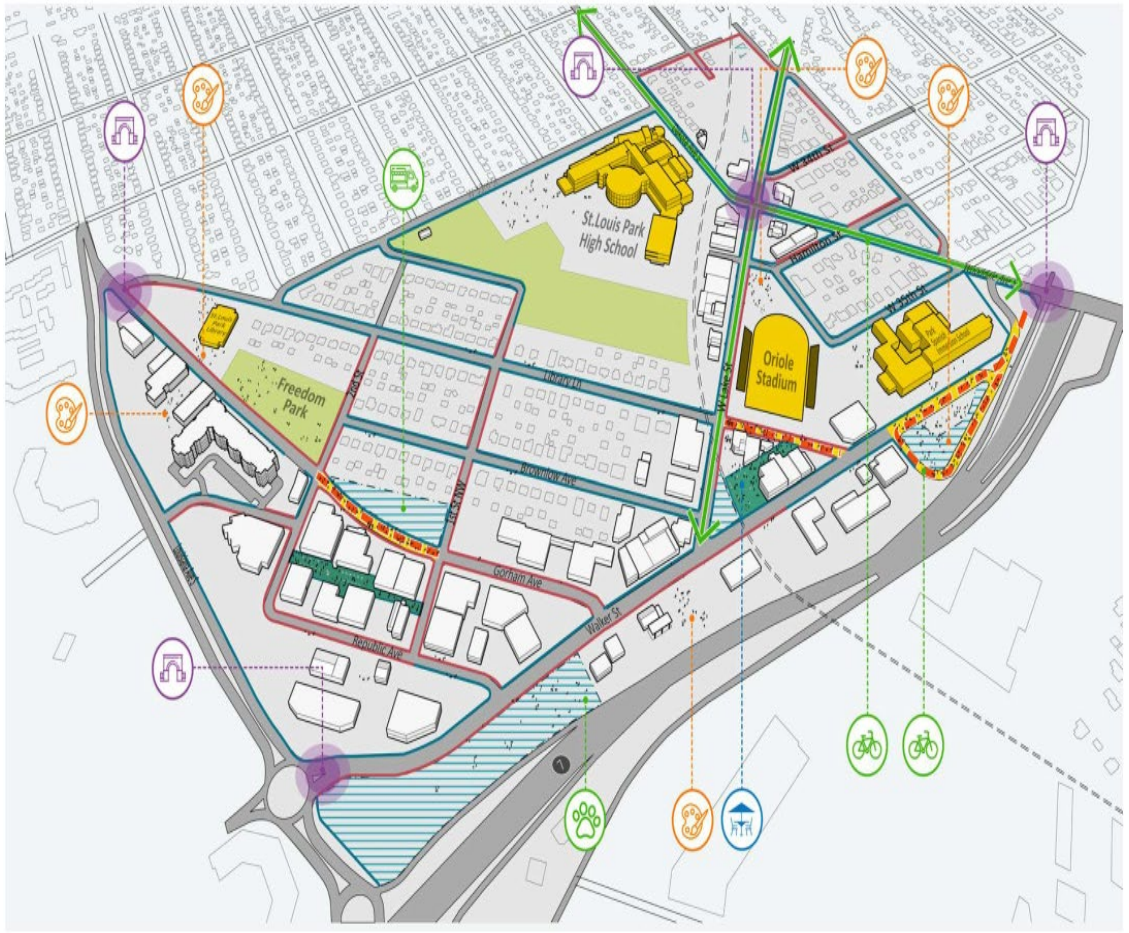
- Phase I and II Environmental screening and investigation
- Development and implementation of RAP
- Reuse of existing soils on-site to limit impacted materials hauled to landfills
- Use of source separated organic materials (SSOM) in topsoil
- Level 1 Electric vehicle charging within District
- Roof drains to reduce use of chlorides

Construction and coordination

- Split project into two phases to mitigate railroad delays
- Phasing plan included accommodations for key school and district events and business access
- Reconstruction of new at-grade rail crossings and relocation of 7 rail signals
- Coordinated reconstruction of 16” gas installation, including utility crossing under railroad tracks
- COVID-19

Wayfinding and identity

"Yes, and"



Public spaces and art

Before and after

Project complete

Project complete

Project partners

Historic WalkerLake

Designers

ASAKURA ROBINSON

SRF

Kimley»Horn
Expect More. Experience Better.

Contractors

Minger Construction

EUREKA CONSTRUCTION, INC.

Thank you!

Engineer of the Year

Engineer of the Year – Education and Work Experiences

- Attended South Dakota State University - Bachelors of Science – Civil Engineering
  - Deans List for two semesters
- Has been employed by current employer since 1980
- Has been an active member in CEAM since around 1995
- Memberships:
  - ITE
  - APWA Lifetime Member
  - ASCE
  - Order of the Engineer
  - Numerous Technical Advisory Committees
- Continuing Education Efforts:
  - Context Sensitive Design, Roundabout Design, Hydrology, Traffic Engineering, and Signal Design
  - Certified in LEEP Academy, Mini MBA, Dale Carnegie Management, Academy of Public Management, YMCA Diversity and Inclusion Academy

Engineer of the Year – Civic and Humanitarian Activities

- Jaycees
- Youth Sports Coaching
- Homeowners Association Board of Directors and President – Worked on project to switch lake property to City Sewer
- Blood Platelet Donor for Red Cross

Engineer of the Year – Family Life

- **He** was raised in a small farming community (Lamberton, MN) where his father owned and ran a grocery store.
- His mother used to dress him up in bowties for school pictures; word is he still won't wear a bowtie to this day.
- The "Father/Son" talk was quite awkward, as he seemed to know more than his father.
- Had a mustache from the age he was able to grow it until his 50th birthday party; he was late to his own party because he was upstairs shaving it off.
- Destiny Calls – He was always destined to be an engineer. As a child, spent hours creating roads in the sand with a toy road grader.
- Decided the family grocery business was not for him, and after taking a job with a county and working on county roads, became intrigued with the engineering profession.

Engineer of the Year – Family Life

- 2 Younger Sisters
  - Would hotwire his dad's car to take his sisters for rides (long before he had his license) and marked the driveway to ensure it got placed back in the right spot.
  - Did everything he could to scare his sisters.
- Family
  - 4 Children
  - Daughter-in-Law
  - 2 Son-in Laws
  - 2 Stepchildren (and their spouses)
  - 16 Grandchildren
- Loves to spend time boating, fishing, playing cards, spending time with family, listen to music, travel, and relax at the cabin in Spicer, MN

Engineer of the Year – Work Life

"He had nothing to do with it – but it did happen while he was working here."

The 2021 City Engineer of the Year is...

CITY ENGINEERS ASSOCIATION OF MINNESOTA

Engineering Our Cities' Futures

2021 Engineer of the Year!

Rod Rue, PE

City of Eden Prairie

City Engineer

CITY ENGINEERS ASSOCIATION OF MINNESOTA

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