



2019 STREET RECLAMATION PROJECT



CITY COUNCIL MEETING

12/11/2018

Tonight's Outline



- What is a Reclamation Project?
- 2019 Project Scope
- Project Location
- Existing Pavement Conditions
- Proposed Improvements
- Project Cost/Funding
- Project Process
- Questions and Comments

What is a Reclamation Project?



STREET RECLAMATION PROJECT

City Of
Northfield
Minnesota

Street	A	Existing Concrete Curb & Gutter (repair as needed)
	B	Existing Bituminous Pavement (Asphalt)
	C	Existing Gravel Base
	D	Granular Material (Optional)
	E	Millings used to rebuild sub-base
	F	New Bituminous Pavement (Asphalt)

The diagram illustrates the process of street reclamation in two stages. The left side shows the initial state with a red house, a white picket fence, and a street with a concrete curb and gutter (A), asphalt pavement (B), gravel base (C), and granular material (D). A utility pole is also present. The right side shows the final state with a blue house, a green lawn, and a new asphalt pavement (F) over a sub-base of millings (E). The property line (R.O.W.) is marked on both sides.

Old pavement and upper 6+ inches of sub-base are milled up from the existing street. The curb, gutter and sidewalks are repaired as needed and the lanes may be restriped, but the road width is not changed. Driveways and utilities are not altered or updated.

The millings from the old street are crushed and used to replenish the sub-base of the road. New asphalt pavement is applied over the packed millings to form the new road surface.

2019 Project Scope



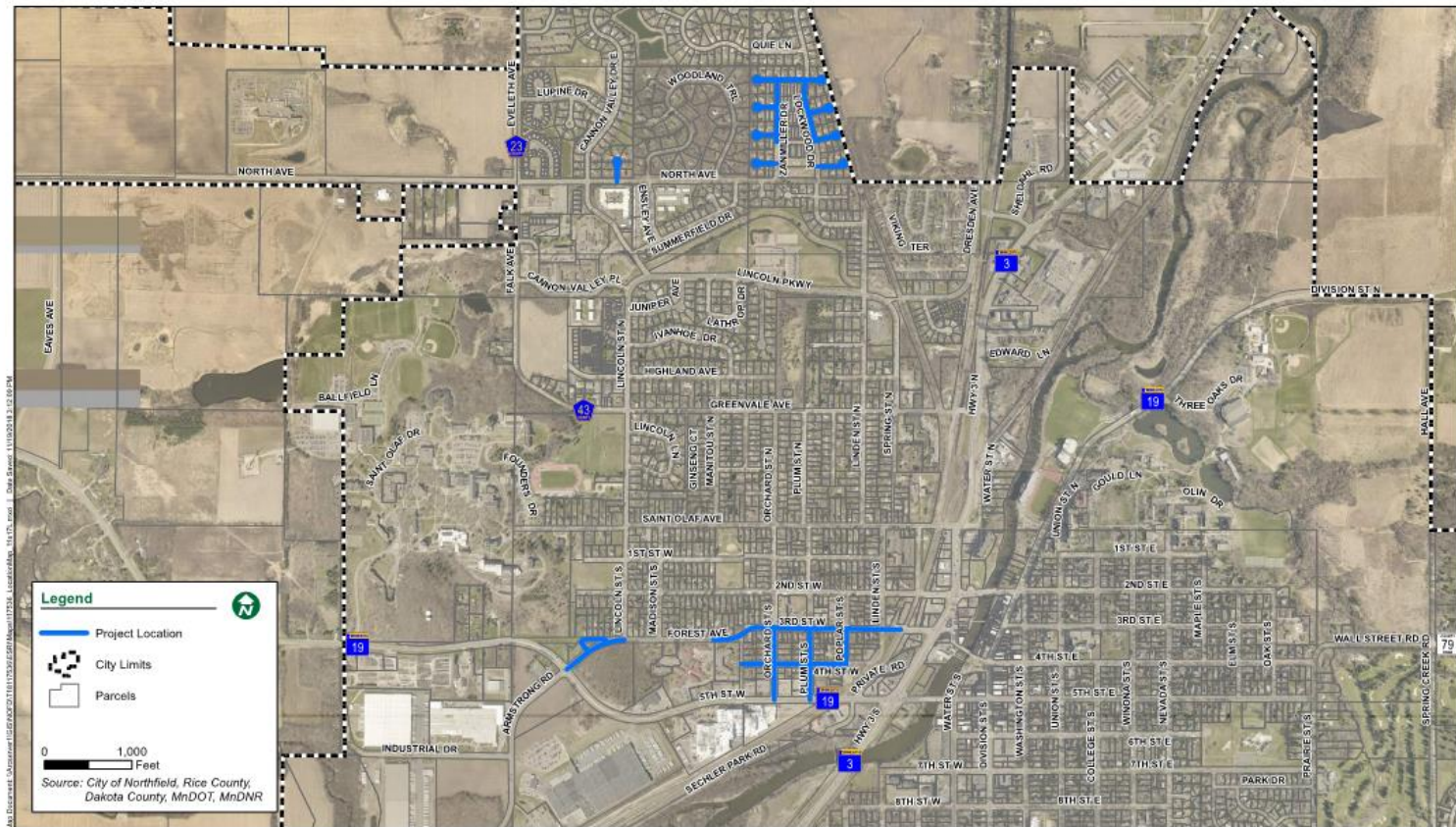
- Full Depth Pavement Reclamation (9"-12" Depth)
- Concrete Curb and Gutter Spot Repairs
- Sidewalk Spot Repairs & New Sidewalk Installations
- ADA Upgrades to Existing Pedestrian Ramps
- Railroad Crossing Improvements
- Storm Sewer & Sanitary Sewer Adjustments
- Watermain Improvements

PROJECT LOCATION

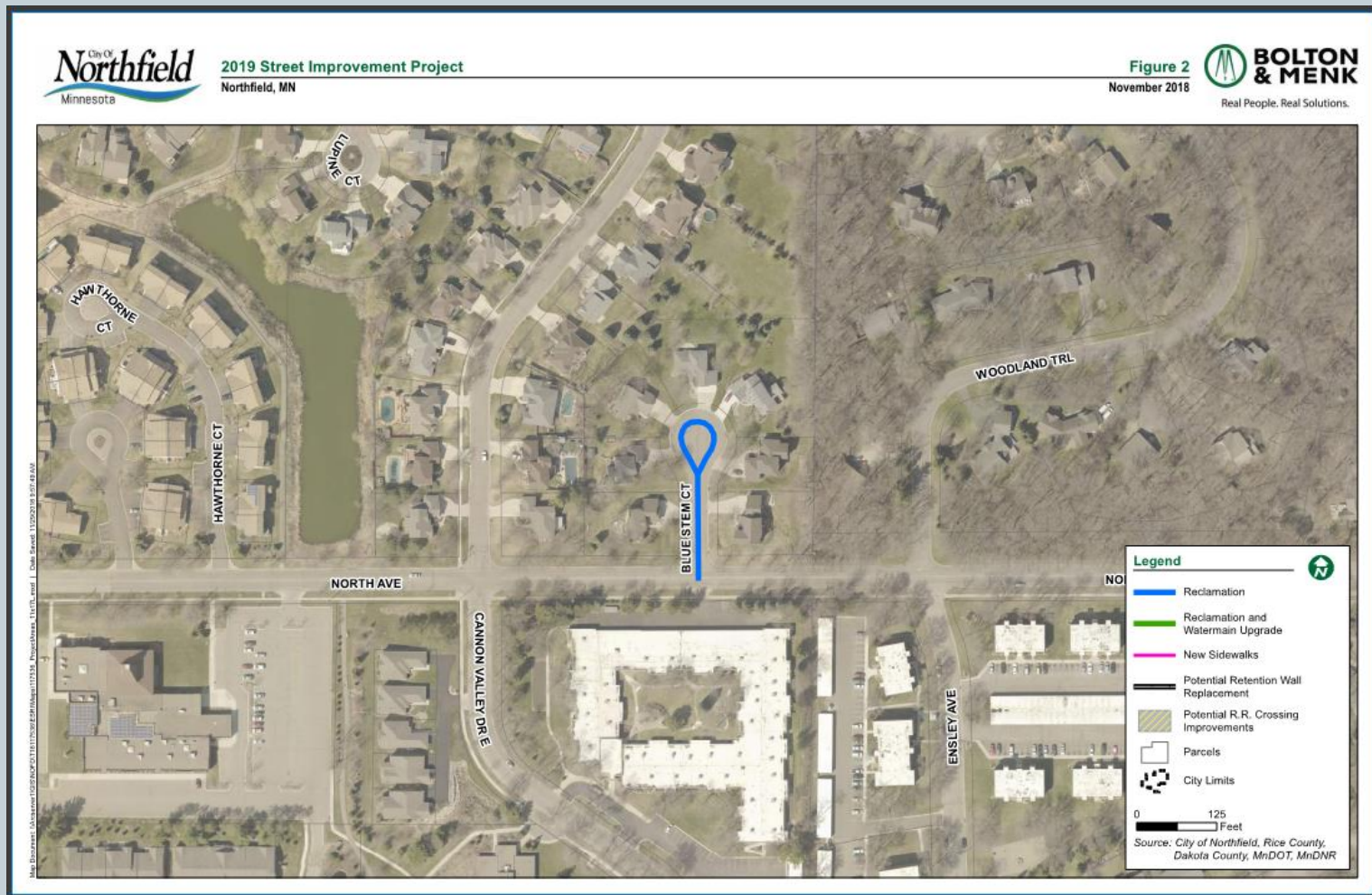


2019 Street Improvement Project
Northfield, MN

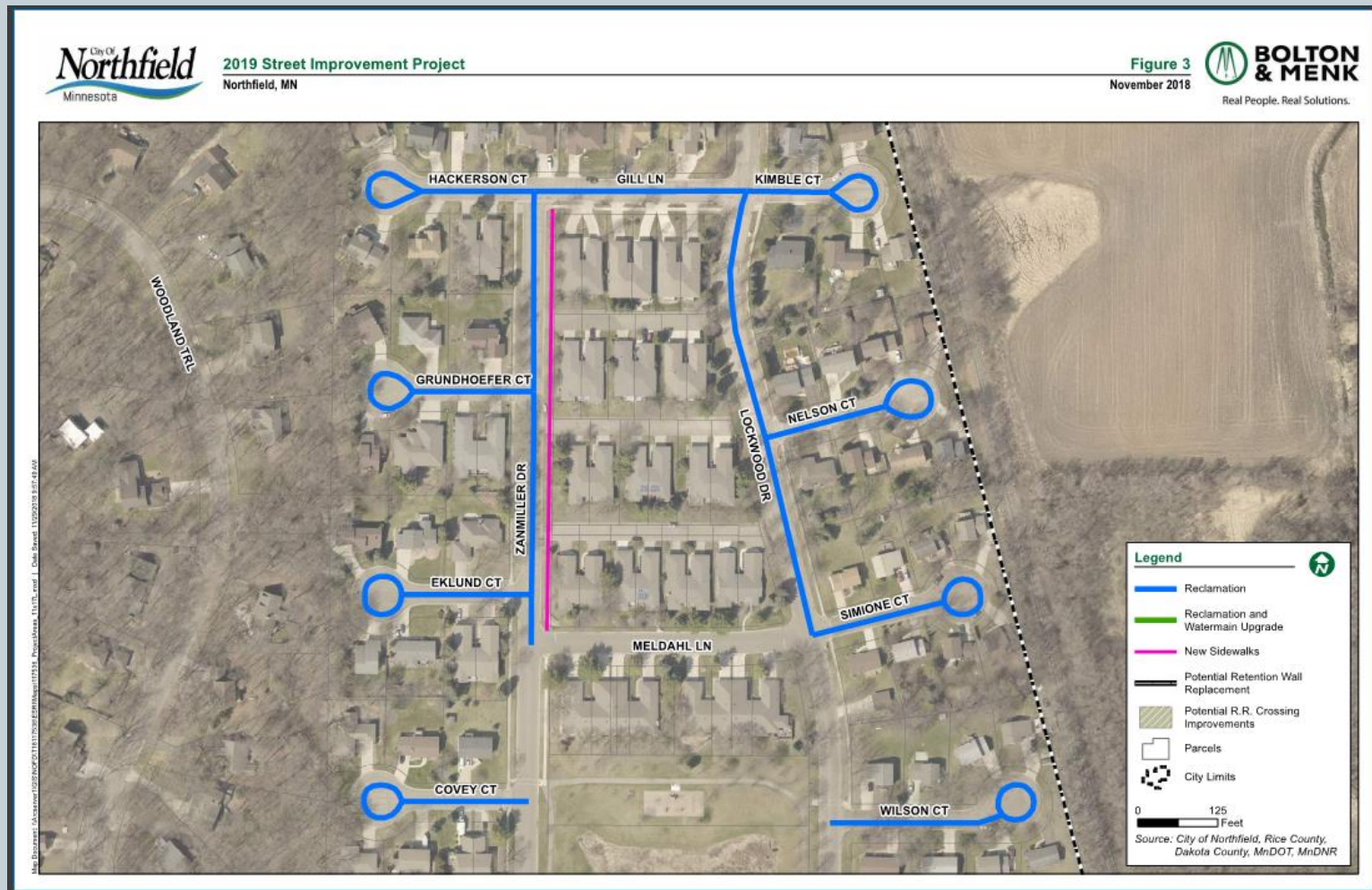
Figure 1:
Project Location
November 2018



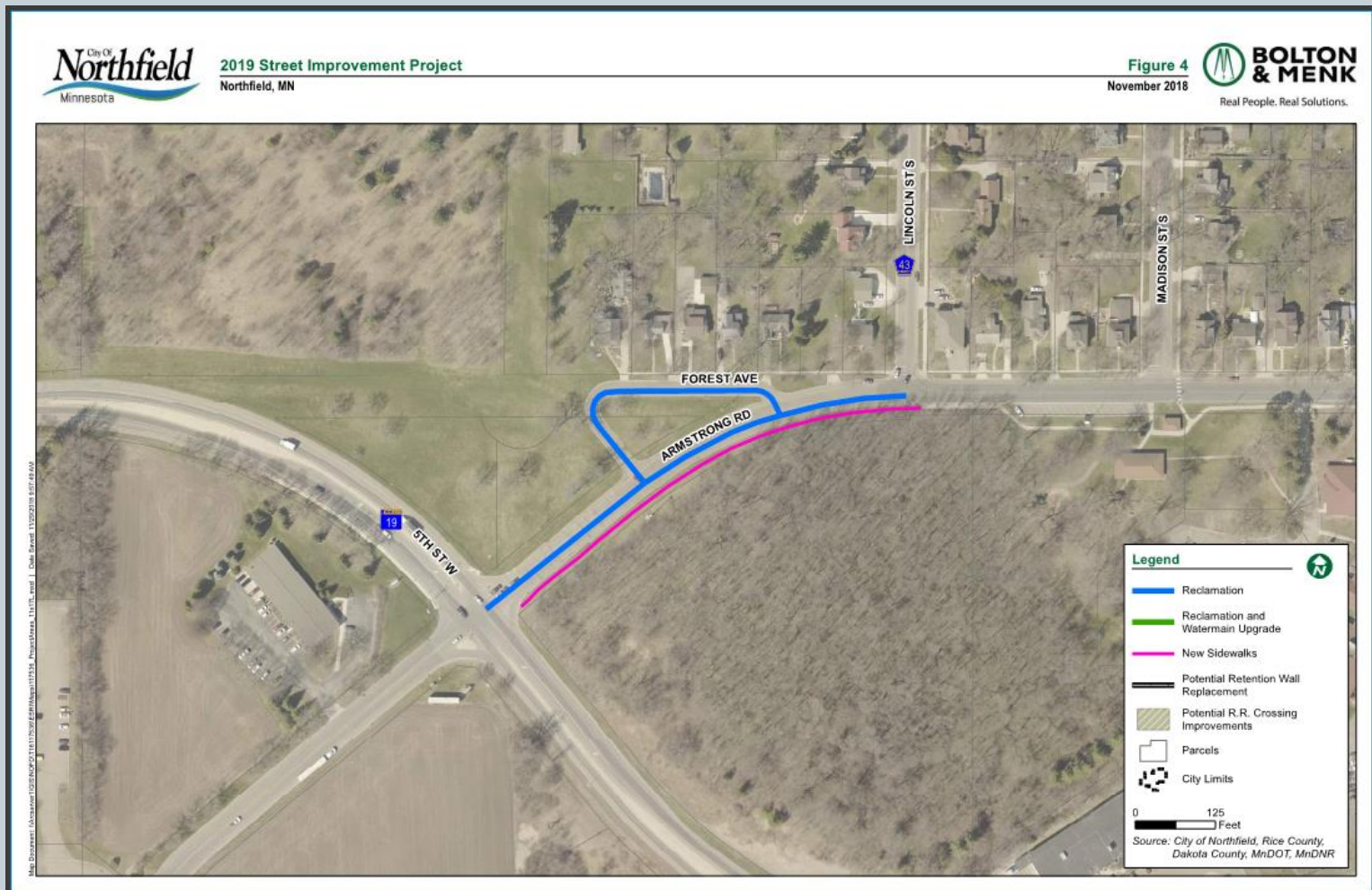
Project Locations & Proposed Improvements



Project Locations & Proposed Improvements



Project Locations & Proposed Improvements

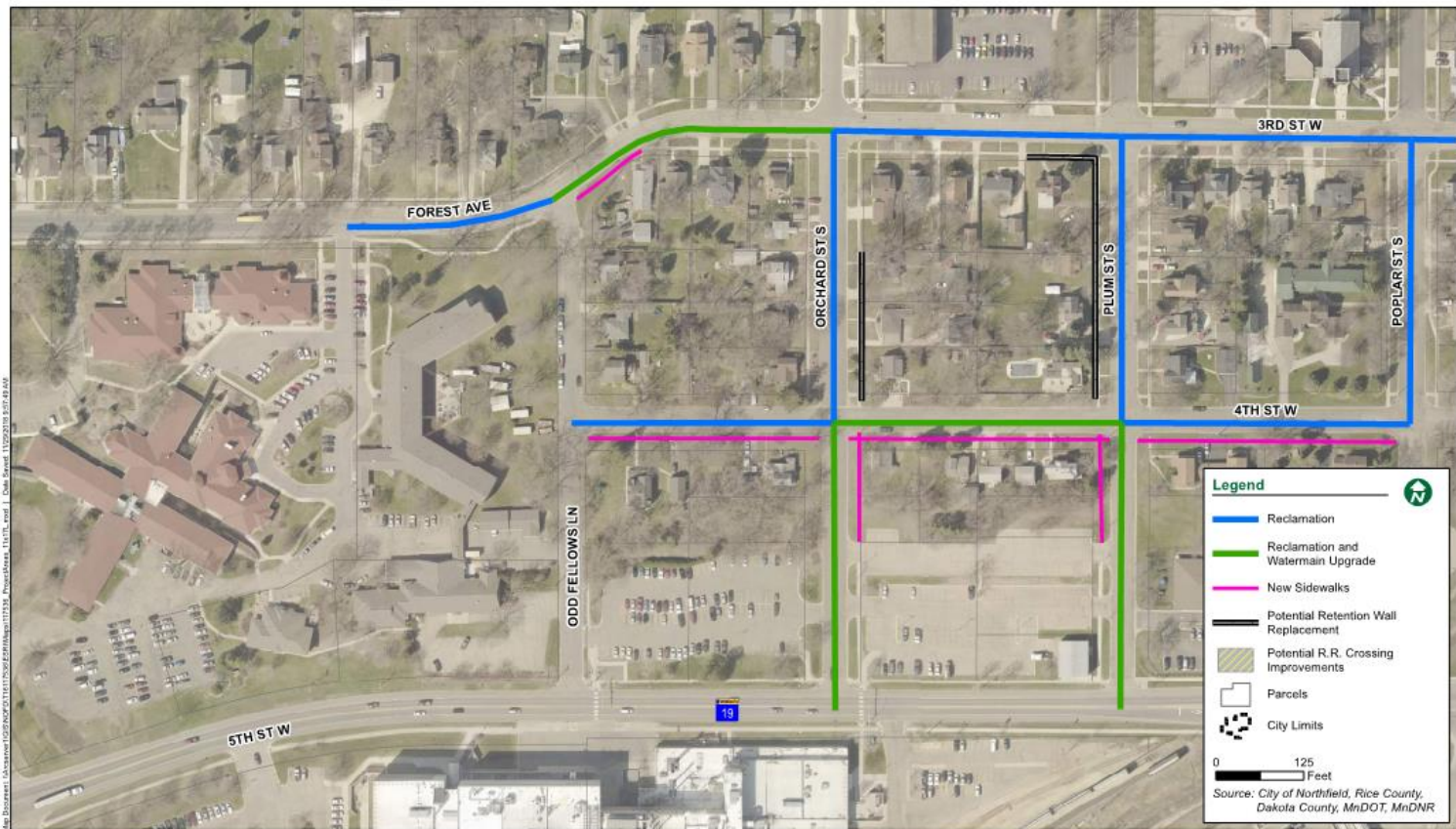


Project Locations & Proposed Improvements

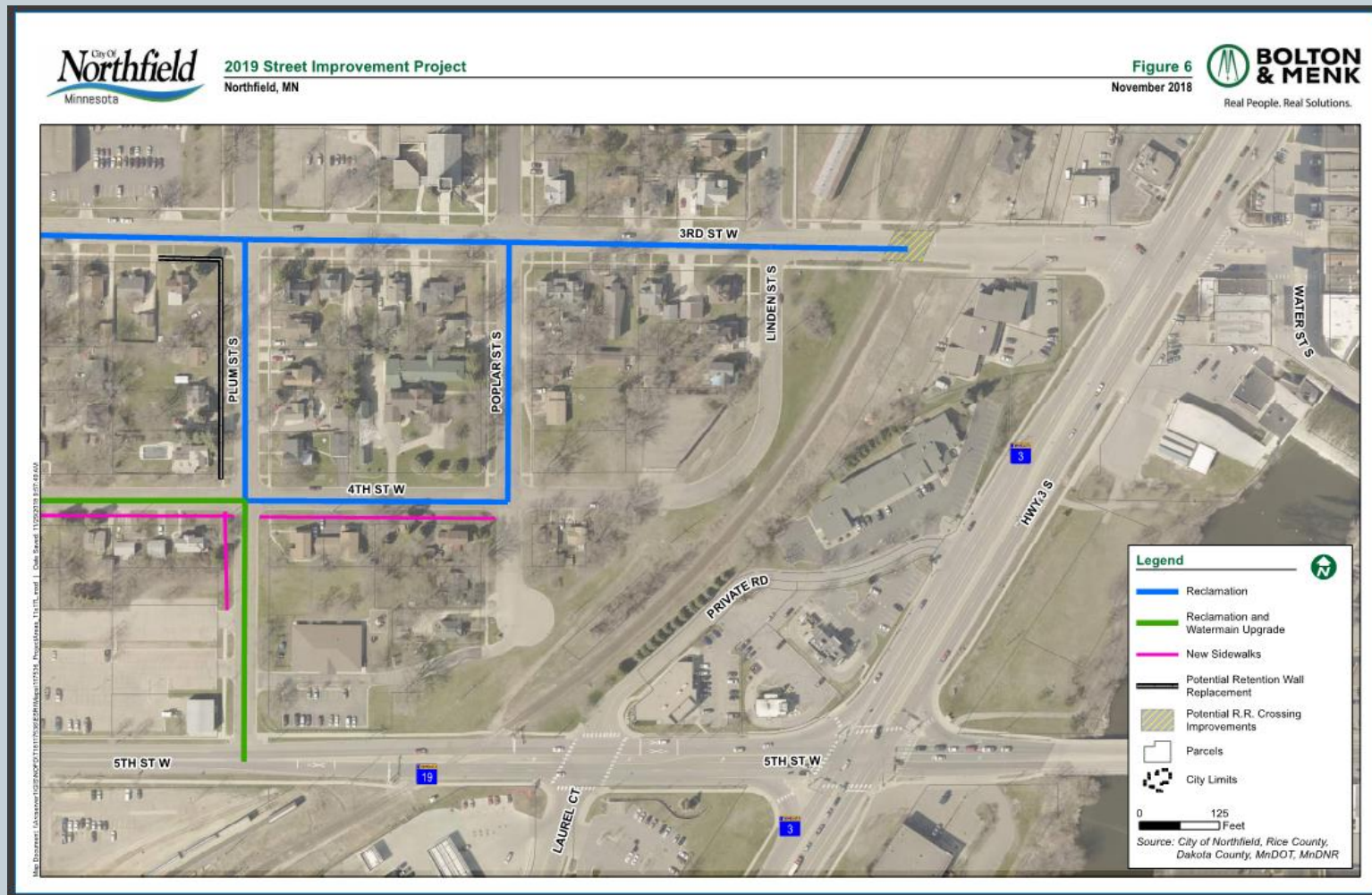


2019 Street Improvement Project
Northfield, MN

Figure 5
November 2018
BOLTON & MENK
Real People. Real Solutions.



Project Locations & Proposed Improvements



Existing Pavement/Curb/Sidewalk Condition



- Transverse Cracking
- Longitudinal Cracking
- Alligator Cracking
- Potholes
- Rutting



Street Improvements

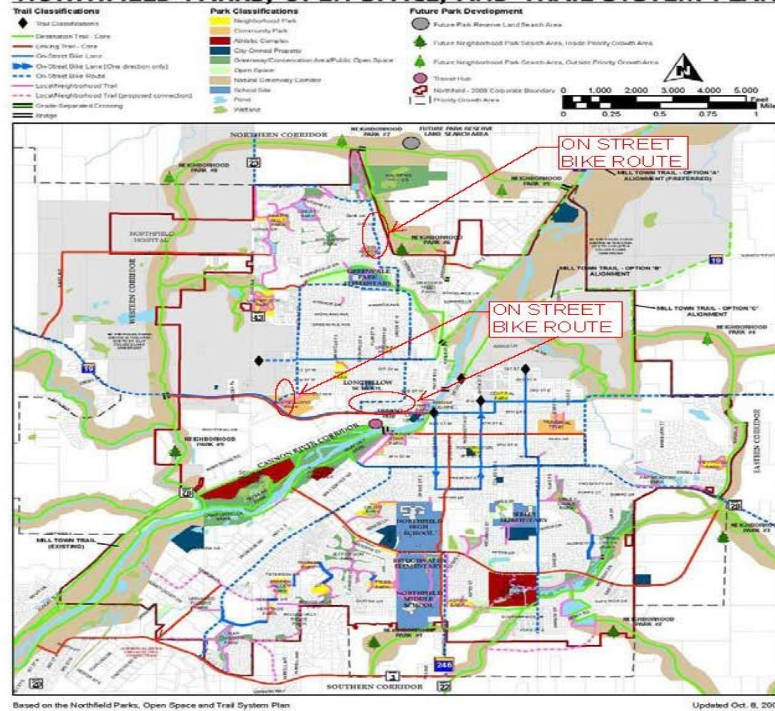


- Reclaim 9"-12" of Existing Base and Pavement
- Place 4" New Bituminous Pavement
- Railroad Crossing Improvements on Third Street (approx. 300 feet west of TH 3)
- Proposed On-Street Bike Lane Routes Included in the City's Bike & Trail Master Plan:
 - Fourth Street
 - Orchard Street
 - Armstrong Road/Forest Avenue
 - Lockwood Drive

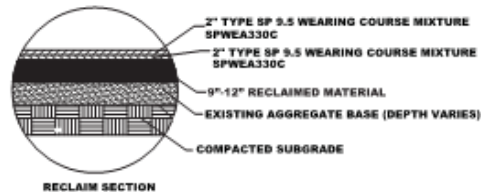
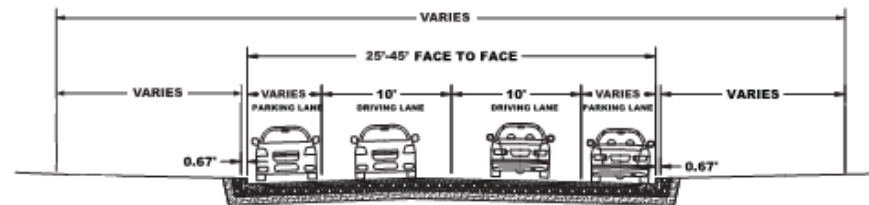
On-Street Bike Routes

MAP 8.2 – PROPOSED PARK AND TRAIL SYSTEM PLAN

NORTHFIELD PARKS, OPEN SPACE, AND TRAIL SYSTEM PLAN



Typical Street Cross Section



According to the Northfield Bike and Trail Master Plan, the following roads are proposed to include on-street bike lane routes where sharrows and/or bikes may use the full lane:

- Fourth Street
- Orchard Street
- Armstrong Road/Forest Avenue
- Lockwood Drive

DESIGNED BY: J.E.B.
 CHECKED BY: J.E.B.
 DATE: 11/11/11



BOLTON & HENK, INC.
 Consulting Engineers & Surveyors
 1000 W. 10th Street, Suite 100
 Northfield, MN 55057-1000



**PUBLIC SERVICES
 DEPARTMENT**
 ENGINEERING DIVISION

PROJECT NAME:

**2019 STREET RECLAMATION PROJECT
 TYPICAL SECTION**

ATTACHMENT NO.

FIG. 8

Sidewalk Installations



- Zanmiller Drive (from Meldahl Lane to Gill Lane) – **Safe Routes to School**
- Third Street (from the Union Pacific railroad tracks to 200' west of Odd Fellow Lane) – **MSAS Route**
- Fourth Street (from Poplar Street to Oddfellows Lane)
- Plum Street (from Third Street to Fifth Street) – TH 19
- Orchard Street (from Third Street to Fifth Street)
- Forest Avenue/Armstrong Road (from Lincoln Street to Fifth Street) – **MSAS Route** – TH 19

Utility Improvements



- Adjusting Storm Sewer & Sanitary Sewer Castings
- Rehab Storm Sewer Catch Basins & Manholes
- Storm Sewer Structure Replacement & Addition
- Gate Valve Box Adjustments
- Increase Size of Watermain consistent with Supply and Distribution Plan:
 - Orchard Street (4th St to 5th St)
 - Fourth Street (Orchard St to Plum St)
 - Third Street (Odd Fellows Ln to Orchard St)
- Installation of Watermain on Plum Street (4th St to 5th St)
- Replace Water Service Lines (to Property Line) in Areas of Watermain Improvements

Estimated Project Cost



Table 3 Estimated Total Project Costs	
	ESTIMATED COSTS
Street (includes pavement, curb and gutter, sidewalks, retaining walls, and pedestrian/ADA improvements)	\$1,933,518
Strom Sewer	\$47,010
Watermain	\$239,565
Sanitary Sewer	\$14,000
<i>Subtotal</i>	<i>\$2,234,093</i>
ART (1%)	\$22,341
<i>Construction Total</i>	<i>\$2,256,434</i>
<i>Contingency (15%)</i>	<i>\$338,465</i>
<i>Overhead (15%)</i>	<i>\$389,235</i>
PROJECT COSTS	\$2,984,134

Project Funding



Table 4 Project Funding Sources	
FUNDING SOURCE	ESTIMATED FUNDING
Bonding	\$1,050,569
Assessments	\$677,347
Strom Fund	\$62,792
Water Fund	\$319,993
Sanitary Fund	\$18,700
MSA	\$854,733
TOTAL FUNDING	\$2,984,134

* Assessment information will be updated when the current Benefit Appraisal is completed

Project Process



- **December 11** - **Accept Feasibility Report & Call for Improvement Hearing**
- December 12 - Neighborhood Informational Meeting #1
- Jan 8, 2019 - Conduct Public Improvement Hearing/Order Improvements & Preparation of Final Plans/Specs
- Feb 20, 2019 - Neighborhood Informational Meeting #2
- March 5, 2019 - Approve Final Plans/Specs & Advertise for Bids
- March 19, 2019 - Declare Amount to be Assessed/Call for Assessment Hearing
- April 4, 2019 - Bid Opening
- April 16, 2019 - Accept Bids & Award Contract
- May 7, 2019 - Assessment Hearing/Adopt Assessment Roll
- May 2019 to June 2019 - Property Owner Meetings
- May 2019 to October 2019 - Construction
- June 2020 - Accept Improvements & Authorize Final Payment

Questions / Comments

