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Preliminary Engineering Report 2023 Street & Utility Improvements

September 13, 2022



PLAINVIEW
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Agenda

- Project Area
- Existing Conditions
- Proposed Improvements
- Cost Estimate & Financing
- Schedule & Next Steps
- Questions




Project Selection

- Infrastructure Management Plan – August 2019




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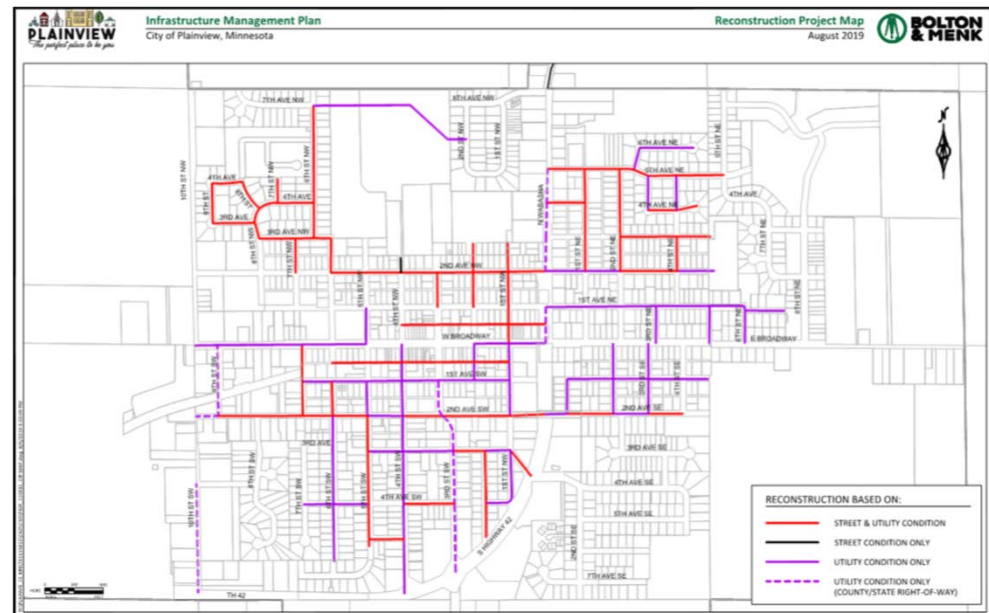


PLAINVIEW
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Infrastructure Management Plan
City of Plainview, MN
August 2019

Submitted by:
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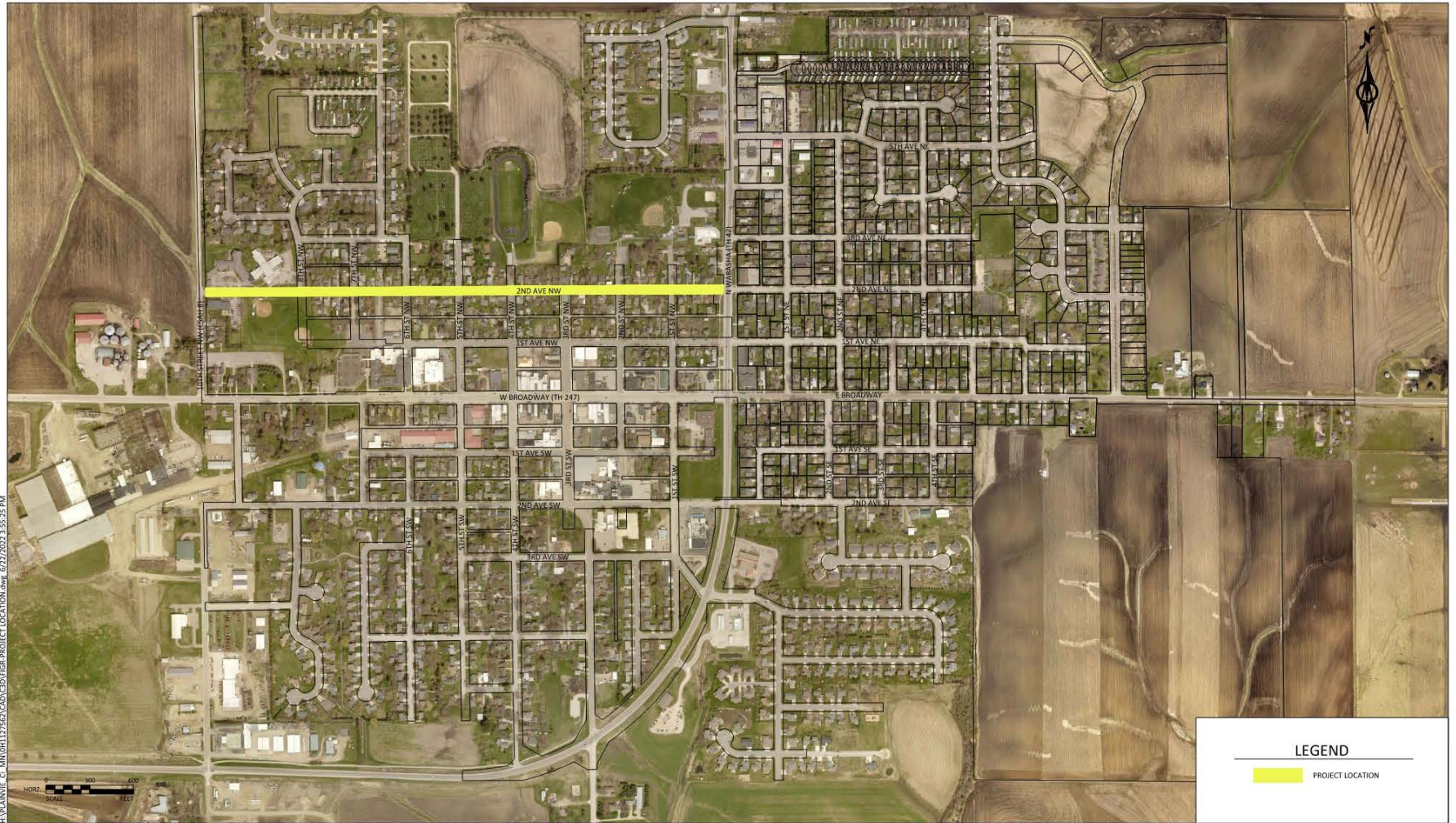




Project Location

2023 Street & Utility Improvements
City of Plainview

Figure 1: Project Location
July 2022



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Existing Conditions Streets

- Asphalt surface – fair to poor condition
- Concrete curb & gutter – poor condition
 - minimal between 10th Street (CSAH 8) & 8th Street
- Fragmented sidewalk
- Steep driveway aprons and boulevards



Existing Conditions Sanitary Sewer

- 8th Street to Wabasha Street (TH 42)
 - Systems are approximately 60 years old
 - 8-inch vitrified clay pipe
 - Mineral deposits, offset joints, pipe sags, broken and damaged pipe
 - Manholes - Poor condition
- Infiltration – increases flows, increases backup risk, increases pumping costs



Existing Conditions

Watermain

- 10th Street (CSAH 8) to 6th Street
 - 2006: 12-inch ductile iron pipe
- 6th Street to Wabasha Street (TH 42)
 - Approximately 60 years old
 - 4-inch cast iron pipe (CIP)
 - CIP of this age is typically brittle, corroded, susceptible to breaks, and reduced in diameter due to mineral buildup
 - Undersized for fire protection



Existing Conditions

Storm Sewer

- 10th Street (CSAH 8) to 8th Street
 - New Storm Sewer in 2020
 - Drainage discharges West of 10th Street (CSAH 8)
 - Some inlets but limited curb & gutter
- 8th Street to Wabasha Street (TH 42)
 - Existing 12 to 15-inch concrete pipe
 - Drainage discharges to north at 6th Street and between 3rd & 4th Street
 - Catch basins in poor condition



Proposed Improvements: Reconstruction

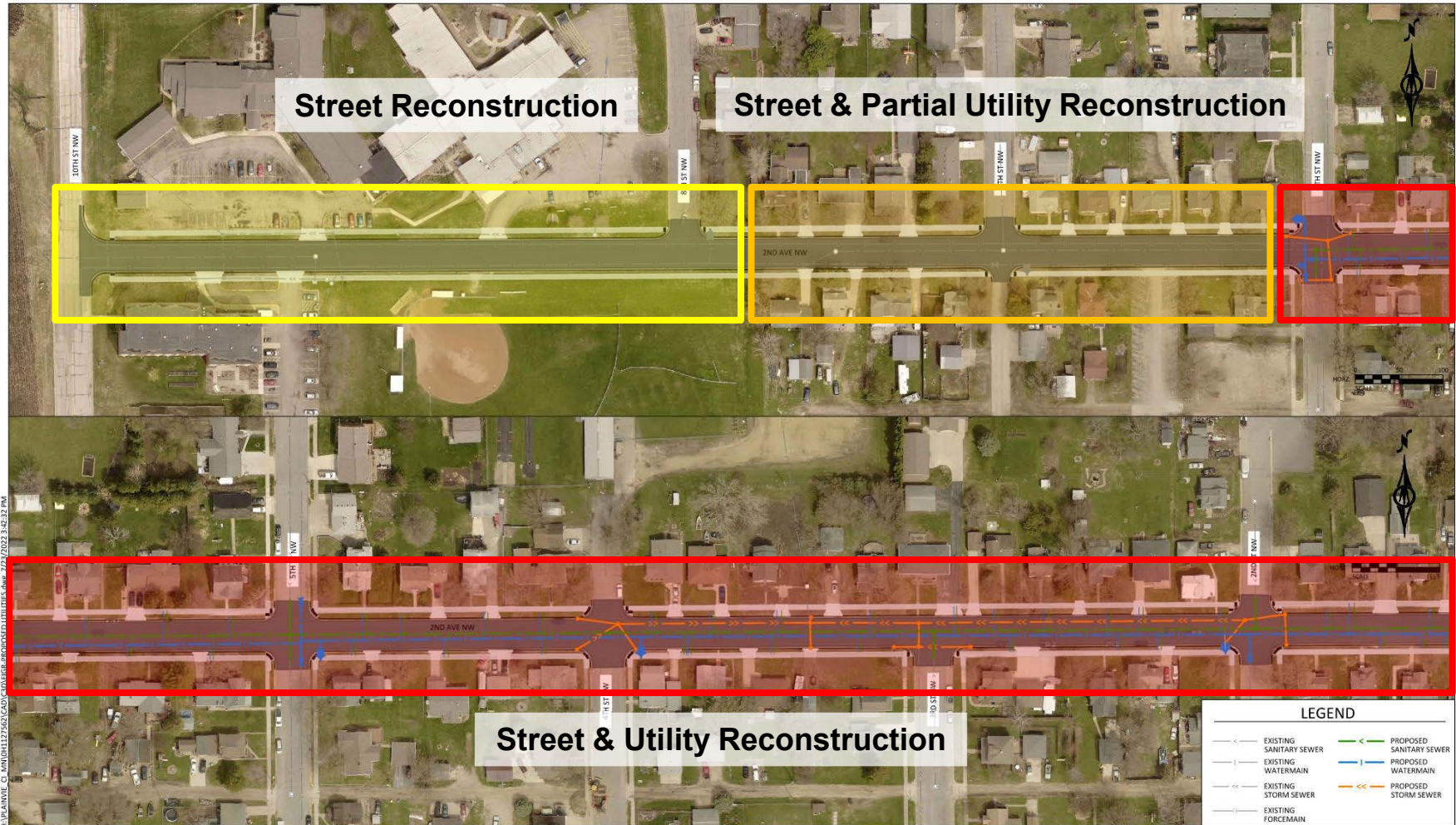
- Street Reconstruction
 - 10th Street (CSAH 8) to 8th Street
- Street & Partial Utility Reconstruction
 - 8th Street to 6th Street
- Street & Utility Reconstruction
 - 6th Street to TH 42



Proposed Improvements

2023 STREET & UTILITY IMPROVEMENTS
CITY OF PLAINVIEW, MN

FIGURE 4: PROPOSED UTILITY IMPROVEMENTS
JULY 2022



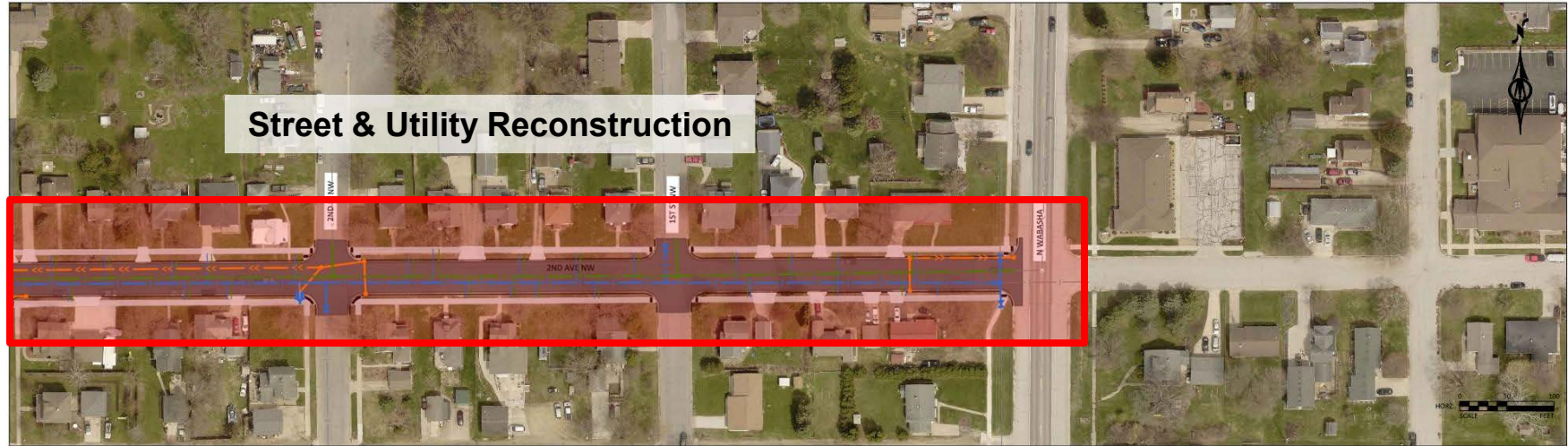
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Proposed Improvements

2023 STREET & UTILITY IMPROVEMENTS
CITY OF PLAINVIEW, MN

FIGURE 5: PROPOSED UTILITY IMPROVEMENTS
JULY 2022



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LEGEND	
EXISTING SANITARY SEWER	PROPOSED SANITARY SEWER
EXISTING WATERMAIN	PROPOSED WATERMAIN
EXISTING STORM SEWER	PROPOSED STORM SEWER



Proposed Improvements: Surface

- 36' bituminous pavement
 - 10' driving lanes & 8' parking lanes
 - Standard residential street width
- Concrete curb & gutter
- Concrete sidewalks & driveway aprons



Proposed Improvements: Sanitary Sewer

- 8 to 10-inch PVC Pipe
- Concrete Manholes
- 6-inch residential service to property line
- Watertight system



Proposed Improvements: Watermain



- 8-inch PVC watermain
- 1-inch residential services to property line with curb stop
- New hydrants and valves



Proposed Improvements: Storm Sewer

- New concrete or plastic pipe
- Additional catch basins
- 6-inch subdrain in street with sump pump services
- 2020 Storm Sewer (CSAH 8)
 - New curb & gutter
 - Adjust castings



Project Takeaways

- Address Surface Needs – beyond point of repair/maintenance
- Address Underground Utilities – 60 years, end of service life
- Continuous curb & gutter from CSAH 8 to TH 42.
 - Eliminate drainage and erosion issues at west end
- Continuous sidewalk from CSAH 8 to TH 42.
 - Increased safety and accessibility
 - Senior living, school, athletic fields, pool, etc.



Estimated Cost & Financing

- Total Project Cost:
 - 2021 LRIP Application - \$3.35 million (2023 Dollars)
 - 2021 Capital Financial Plan - \$3.6 million (2023 Dollars)
 - Current Estimate - \$4.8 million
 - Significant construction inflation (25%)
 - Additional utility work
 - 2022 Capital Financial Plan (Updated) - \$4.8 million
- We understand project will be financed :
 - Bond Sale – Repaid with Utility Funds
 - Cash from Street Reconstruction Fund



Tentative Project Schedule Summary


Table 10 – Tentative Project Schedule	
Council Authorize Preliminary Engineering Report	5/10/2022
Prepare Feasibility Report	Summer 2022
Neighborhood Information Meeting #1	7/27/2022
Resolution Receiving Report	9/13/2022
Resolution Ordering Improvement and Preparation of Plans and Specifications	9/13/2022
Prepare Plans and Specifications	Oct 2022 – Feb 2023
Neighborhood Information Meeting #2	Fall/Winter 2022/2023
Resolution Approving Plans and Specifications and Ordering Advertisement for Bids	2/14/2023 ←
Advertise for Bids	2/16/2023
Open Bids	3/8/2023
Resolution Awarding Contract	3/14/2023 ←
Neighborhood Informational Meeting #3	April 2023
Begin Construction	May 2023
Substantial Completion of Construction	October 2023
Final Completion of Construction	June 2024



Construction Process & Project Communication



Project Website



PLAINVIEW *Minnesota* 2023 STREET & UTILITY IMPROVEMENT

HOME MAPS & DOCUMENTS SCHEDULE UPDATES HELPFUL LINKS

Home

Project Overview

The City of Plainview is planning the construction of the 2023 Street & Utility Improvement Project, which will consist of the full reconstruction of street and utility (sanitary sewer, water main, and storm sewer) infrastructure in the following areas:

- 2nd Avenue NW between 10th Street NW (CSAH 8) and North Wabasha Street (TH 42)

Construction is planned for the summer of 2023.

Contact

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Questions?



Questions?



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LEGEND			
	EXISTING SANITARY SEWER		PROPOSED SANITARY SEWER
	EXISTING WATERMAIN		PROPOSED WATERMAIN
	EXISTING STORM SEWER		PROPOSED STORM SEWER

