

Wood Duck Trail Reconstruction Project

Public Hearing
July 2, 2019



SHAKOPEE | MN
COMMUNITY PRIDE SINCE 1857

City of Shakopee | 485 Gorman St., Shakopee MN 55379 | 952-233-9300 | www.ShakopeeMN.gov

Capital Improvement Program

- City Initiated Program
- Reconstruct Aging Public Streets and Utilities
- CIF19-008 2019 Wood Duck Trail Reconstruction

Of Important Note:

- Initially proposed as part of a 2022 Pavement Rehabilitation Project, but roadway has failed to a point where immediate and full reconstruction is warranted
- Local public improvements to the city's infrastructure based on Minnesota Statute 429

Capital Improvement Plan
City of Shakopee, Minnesota

Project # **CIF-22-002**
Project Name **2022 Pavement Mill and Overlay**

Accounting Code
Fund **Capital Improvement Fund**

Description
This project includes the bituminous overlay of various streets throughout the City, including upgrading sidewalk and trail pedestrian ramp facilities.

Justification
This is a continuation of the City's Pavement Preservation Program to maintain existing infrastructure.

2019 thru 2023

Department **Capital Improvements Fund**
Contact **Public Works Director**
Type **Maintenance**
Useful Life **20**
Category **Street Paving**
Priority **1 Critical for Safety/Preservat**
Status **Active**

Total Project Cost: **\$1,160,000**

Expenditures	2019	2020	2021	2022	2023	Total
Construction/Maintenance				1,065,000		1,065,000
Engineering/Administration				95,000		95,000
Total				1,160,000		1,160,000

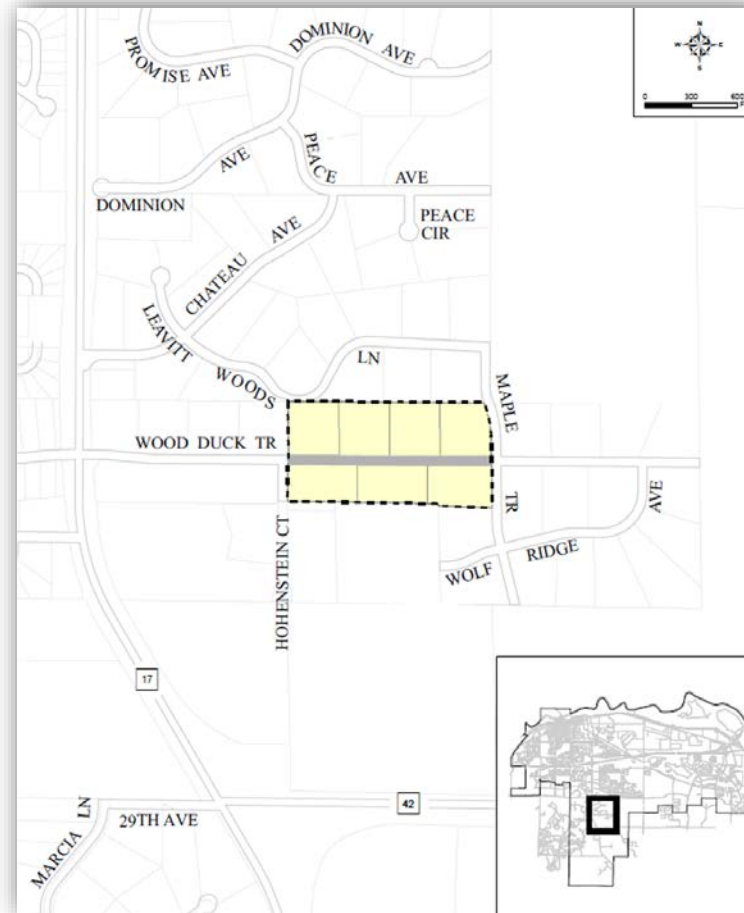
Funding Sources	2019	2020	2021	2022	2023	Total
Capital Improvement Fund				1,120,000		1,120,000
Cost Sharing, SPUC				20,000		20,000
Sanitary Sewer Fund				10,000		10,000
Storm Drainage Fund				10,000		10,000
Total				1,160,000		1,160,000



PROJECT LOCATION

Proposed Project Location Map

Wood Duck Trail between Hohenstein Court and Maple Trail



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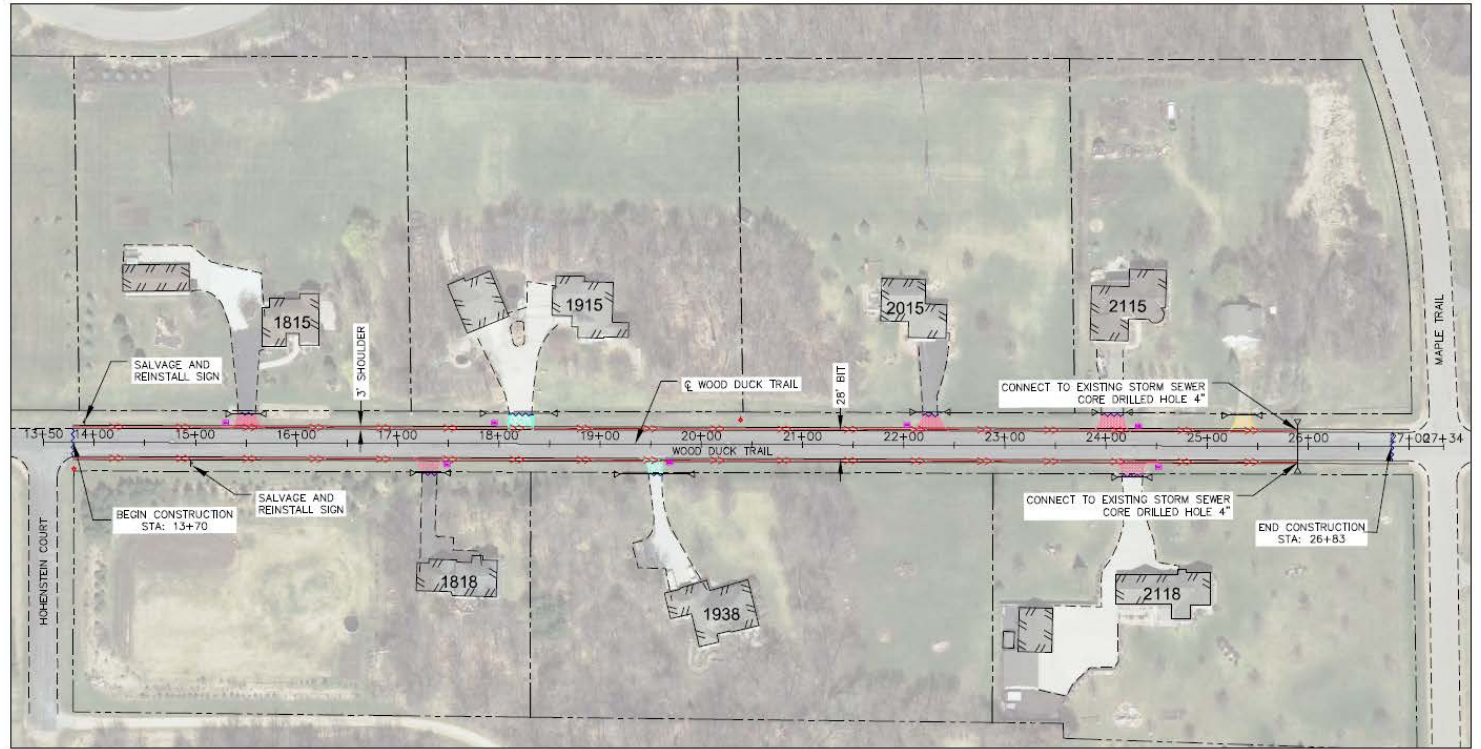
Existing Conditions

- The street was most recently improved in 1994.
- Wood Duck Trail is 28-feet wide, generally flat and has a 5 foot aggregate shoulder and drainage ditches on both sides of the road,
- The roadway's bituminous asphalt pavement has failed and is showing significant fatigue and distress.
- The subgrade is pumping and rutting into the aggregate and bituminous surface.
- There are three free-standing street lights inside or immediately adjacent to the project area.
- A lateral sanitary sewer system and watermain have not been extended to this neighborhood. Within the project area, residents are responsible for maintaining a private septic and well systems.



Proposed Street and Storm Drainage Improvements

- Rebuild the pavement to the same 28-foot wide surface and replacing 3-feet of the existing shoulder while preserving the outer remaining 2-foot shouldering aggregate.
- The existing subgrade soil material will be replaced to provide a stable foundation to support the proposed street improvements.
- Subsurface drain tile will be installed under the roadway to remove water from the sand subgrade section.



No street lighting, sanitary sewer or watermain upgrades are planned with this project.



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Project Inconveniences



Restoration

- Driveways that are disturbed due to the street construction will be replaced with similar materials
- Disturbed boulevards will be restored with a compost-topsoil blend, seed and hydro-mulch



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Proposed Apportionment

Table 1 - Estimated Cost & Funding Source
Wood Duck Trail

	Streets	Storm Sewer	Estimated Total
Estimated Expenditures			
Estimated Construction Cost Street & Utility	\$265,000.00	\$35,000.00	\$300,000.00
Contingencies (~10%)	\$26,500.00	\$3,500.00	\$30,000.00
Administration, Engineering, Legal (~10%)	\$29,200.00	\$3,900.00	\$33,100.00
Total Estimated Project Costs (Feasibility)	\$320,700.00	\$42,400.00	\$363,100.00
Estimated Revenue			
Special Assessments	\$66,000.00		\$66,000.00
Capital Improvements Fund	\$254,700.00		\$254,700.00
Storm Sewer Fund		\$42,400.00	\$42,400.00
Total Estimated Revenue (Feasibility)	\$320,700.00	\$42,400.00	\$363,100.00



Note: This is a council initiated project that requires 4/5ths vote to proceed.

Assessment Method

Assessment Per City Policy

Cost per lot basis

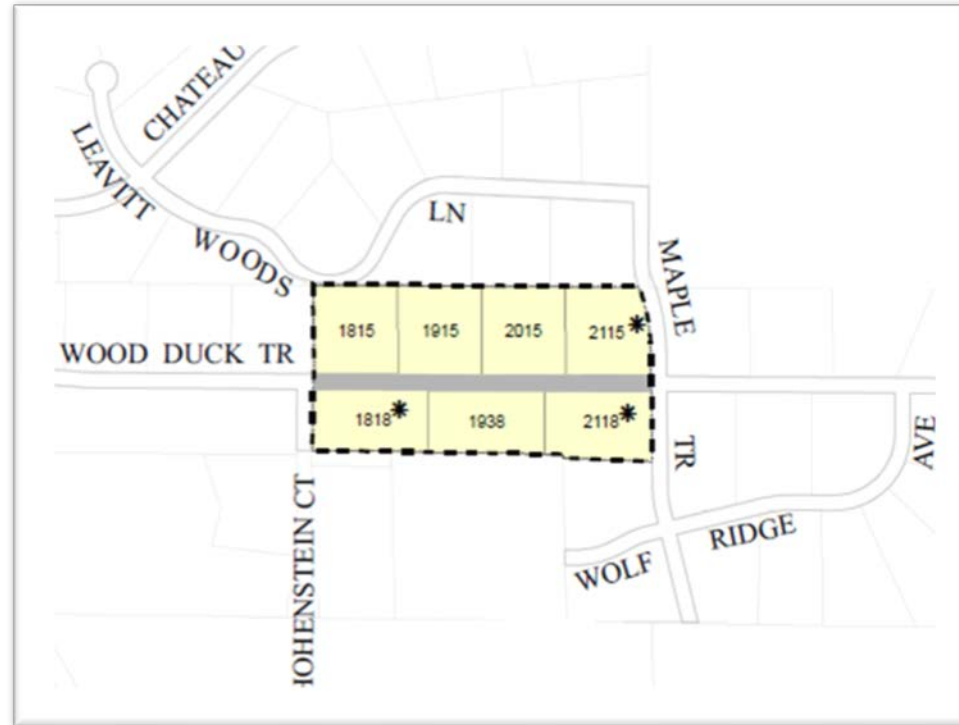
- 30% of the assessable street improvements will be used to determine total assessable street improvements
- $\text{Total cost of assessable street improvements} / \text{total number of assessable lots benefiting from the improvement} = \text{assessment rate}$
- Corner lot adjustments made (half assessment per side of corner lot)
- \$13,750 per unit/lot (per Assessment Policy Methodology)

Validation by Special Benefit Appraisal Consultation

Special benefit appraisal basis

- Maximum benefitting amount (per assessment appraisal consultation) = capped assessment rate
- Recommended to cap Assessment at \$12,000 based on evaluation

Assessment Map



LEGEND

-  SINGLE FAMILY RESIDENTIAL (PER LOT BASIS)
-  CORNER LOT
-  PROJECT BOUNDARY



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Assessment Amortization

Assessment Amount	\$12,000.00	(proposed)
Assessment Interest Rate	5.5%	(to be determined)
Assessment Term	10 Years	(to be determined)

Year	Annual Payment	Principal	Interest	Balance
1	\$1,860.00	\$1,200.00	\$660.00	\$10,800.00
2	\$1,794.00	\$1,200.00	\$594.00	\$9,600.00
3	\$1,728.00	\$1,200.00	\$528.00	\$8,400.00
4	\$1,662.00	\$1,200.00	\$462.00	\$7,200.00
5	\$1,596.00	\$1,200.00	\$396.00	\$6,000.00
6	\$1,530.00	\$1,200.00	\$330.00	\$4,800.00
7	\$1,464.00	\$1,200.00	\$264.00	\$3,600.00
8	\$1,398.00	\$1,200.00	\$198.00	\$2,400.00
9	\$1,332.00	\$1,200.00	\$132.00	\$1,200.00
10	\$1,266.00	\$1,200.00	\$66.00	\$0.00
Totals:	\$15,630.00	\$12,000.00	\$3,630.00	



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Preliminary Project Schedule

City Council Receives Feasibility Report, Calls for Public Hearing	June 4, 2019
City Council Holds Public Hearing, Authorizes the Project and Orders Preparation of Plans and Specifications	July 2, 2019
City Council Approves Plans and Specs, Authorizes Advertisement for Bids	July 16, 2019
City Receives and Opens Project Bids	August 8, 2019
City Council Considers Award of Contract	August 20, 2019
Start Project Construction	August 2019
Construction Substantially Complete	October 2019
City Council Declares Cost to be Assessed, Calls for Public Hearing	October 2019
Hold Assessment Public Hearing	November 2019

