

Proposed 2020 Street Reconstruction Project

City of White Bear Lake
Engineering Department
Informational Meeting
November 14, 2019



Engineering Department Staff

Paul Kauppi, P.E.	City Engineer/Public Works Director
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2020 Street Reconstruction Project



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2019. 8. 23



2020 Street Reconstruction Project

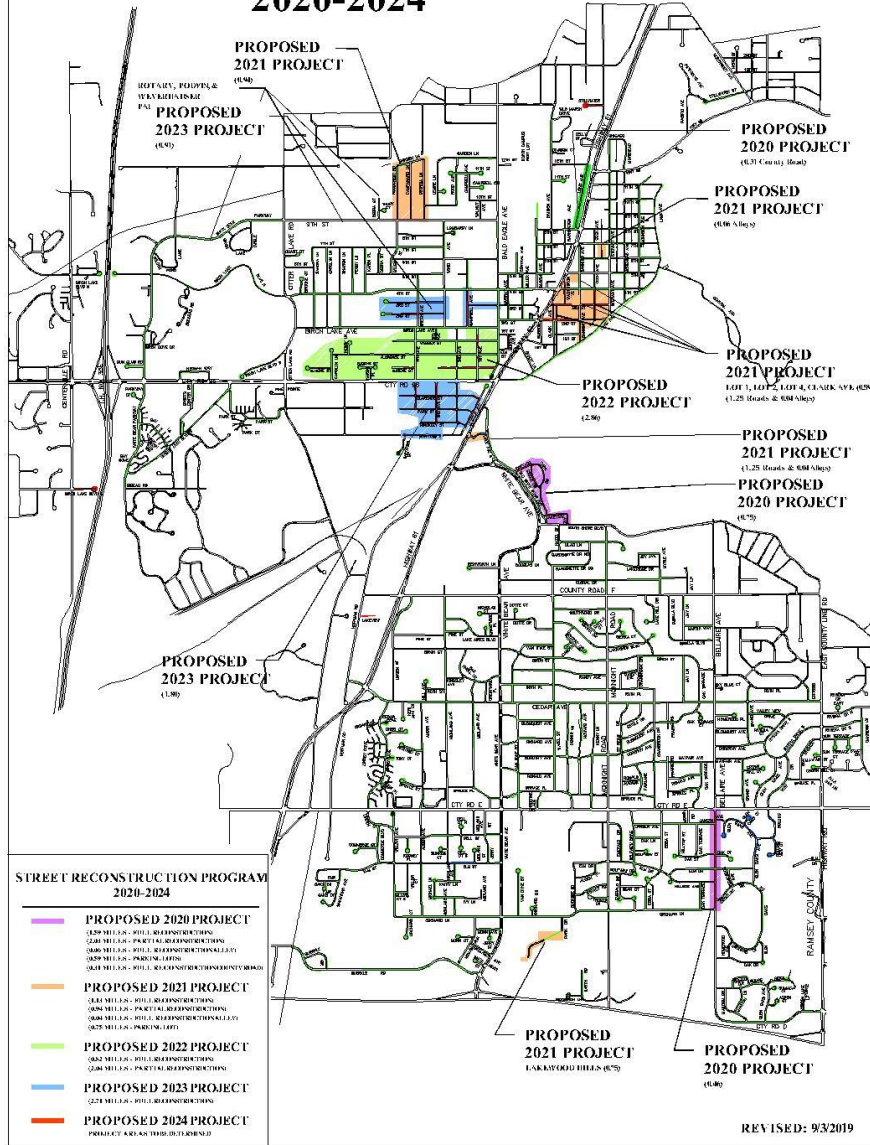


2020 Street Reconstruction Project



CITY OF WHITE BEAR LAKE PROPOSED STREET RECONSTRUCTION PROGRAM 2020-2024

PAVEMENT CONDITION
LEVEL 1 (RECONSTRUCTED TO CURRENT ENGINEERING STANDARDS)
LEVEL 2 (STREETS WITH CONCRETE CURB & GUTTER)
LEVEL 3 (BITUMINOUS STREETS)



2020-2024 Street Reconstruction Projects



Construction Reality

- Expensive
 - ~\$1.0M
 - Roughly 2/3 Bonds, Reserves, MSA, License Bureau
 - Roughly 1/3 Property Assessments
- Disruptive
 - Noise
 - Vibration
 - Dust or Mud
 - Water/ Sanitary Sewer Service
 - Parking
 - Access



Proposed 20-01 Project Location

- Circle Drive (Cottage Park Road to Cottage Park Road)
- Cottage Park Road (Lakeview Avenue to Old White Bear Avenue)
- Lakeview Avenue (Old White Bear Avenue to South Shore Boulevard)



2020 Street Reconstruction Project 20-01



— Reconstruction



Proposed 20-01 Project Location

- Cottage Park Road (Looking North)





Driveway Replacement Program

Residents can choose to have their driveway replaced during the street reconstruction.
Brochures are available with additional information.





Driveway Replacement Program

Once we hire a contractor, usually in early Spring, the City will send additional information including prices.





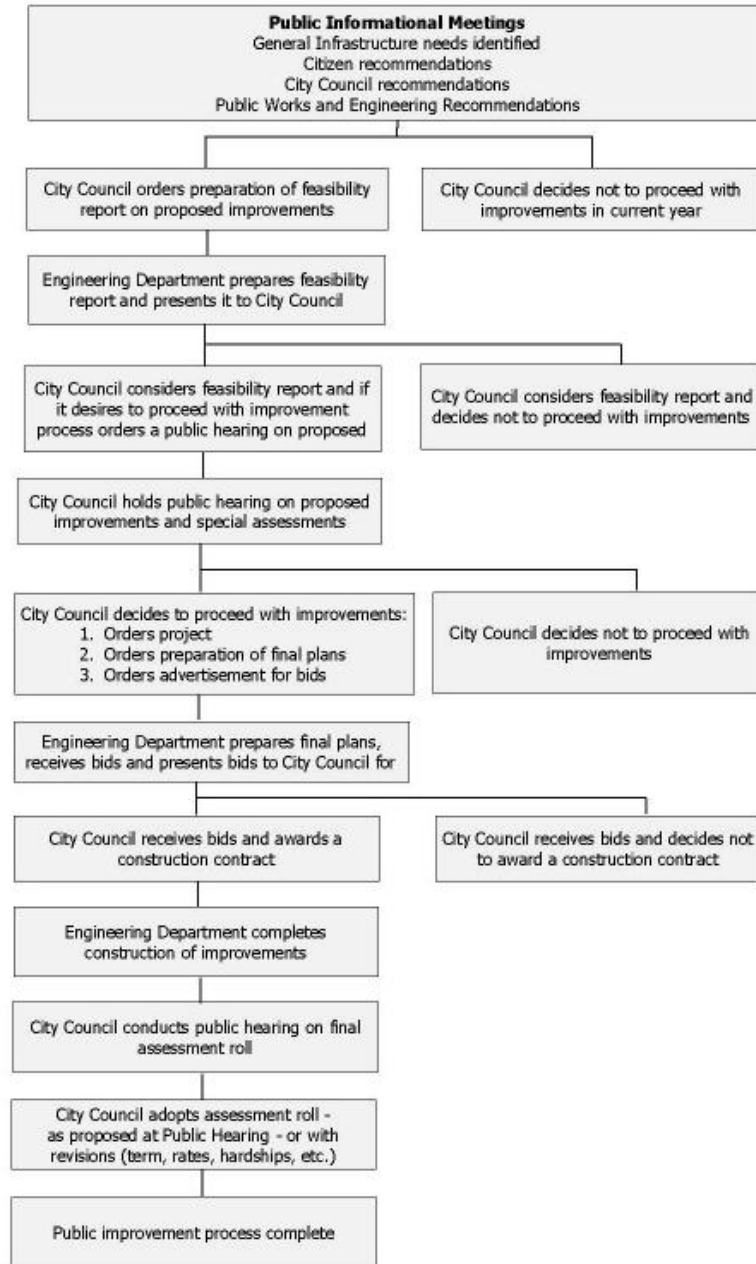
Sanitary Sewer Wye Replacement Program



Assessments

- Minnesota Statutes, Chapter 429 - Assessment Process
 - Assessment must be fair, uniform and benefit the property
 - Benefit is evaluated by a qualified, licensed professional appraiser
 - Public Notice
 - Public Hearing
 - Appeal Process
- Assessment Breakdown
 - Street (Based on assessable frontage per foot)
 - Storm Sewer (\$0.12/SF lot area)
 - Sanitary Sewer Service* (\$1,300+ each)





City of White Bear Lake

Public Improvement Process



Construction Process

- Private Utility Work (Xcel Energy, Comcast and CenturyLink)
- Temporary Mail Box Installation
- Erosion Control
- Tree Removal (if necessary)
- Pavement Removal
- Underground Utility Work
 - Water Shut Off (to replace hydrants or other watermain repairs)
 - Sanitary Sewer Wye Replacement
 - Storm Sewer
- Subgrade Compaction and Gravel Base Placement
- Install Curb and Gutter
- Install New Concrete Driveways and Aprons
- Pave First Lift of Bituminous
- Install New Bituminous Driveways and Aprons
- Sod Installation/Restoration
- Final Lift of Bituminous



Private Utility Work

Step 1





Private Utility Work

Xcel Energy will install new gas mains in the construction areas. They will contact you directly regarding this work, which will start prior to any work on the street.





Private Utility Work

If you have any questions or concerns about the installation, please contact Xcel Energy at (800) 895-2999.



Mailbox Removal and Installation of Temporary Mailboxes

Step 2





Installation of Temporary Mailboxes

Temporary mailboxes will be installed at the beginning of the project in strategic locations identified by your Letter Carrier.





Temporary Mailboxes

The Post Office will label the boxes, and you will be provided a map indicating the location of your particular box.





Temporary Mailboxes

The Post Office will label the boxes, and you will be provided a map indicating the location of your particular box.



Erosion Control

Step 3





Erosion Control

Erosion control prevents construction debris from entering the storm sewer.





Erosion Control

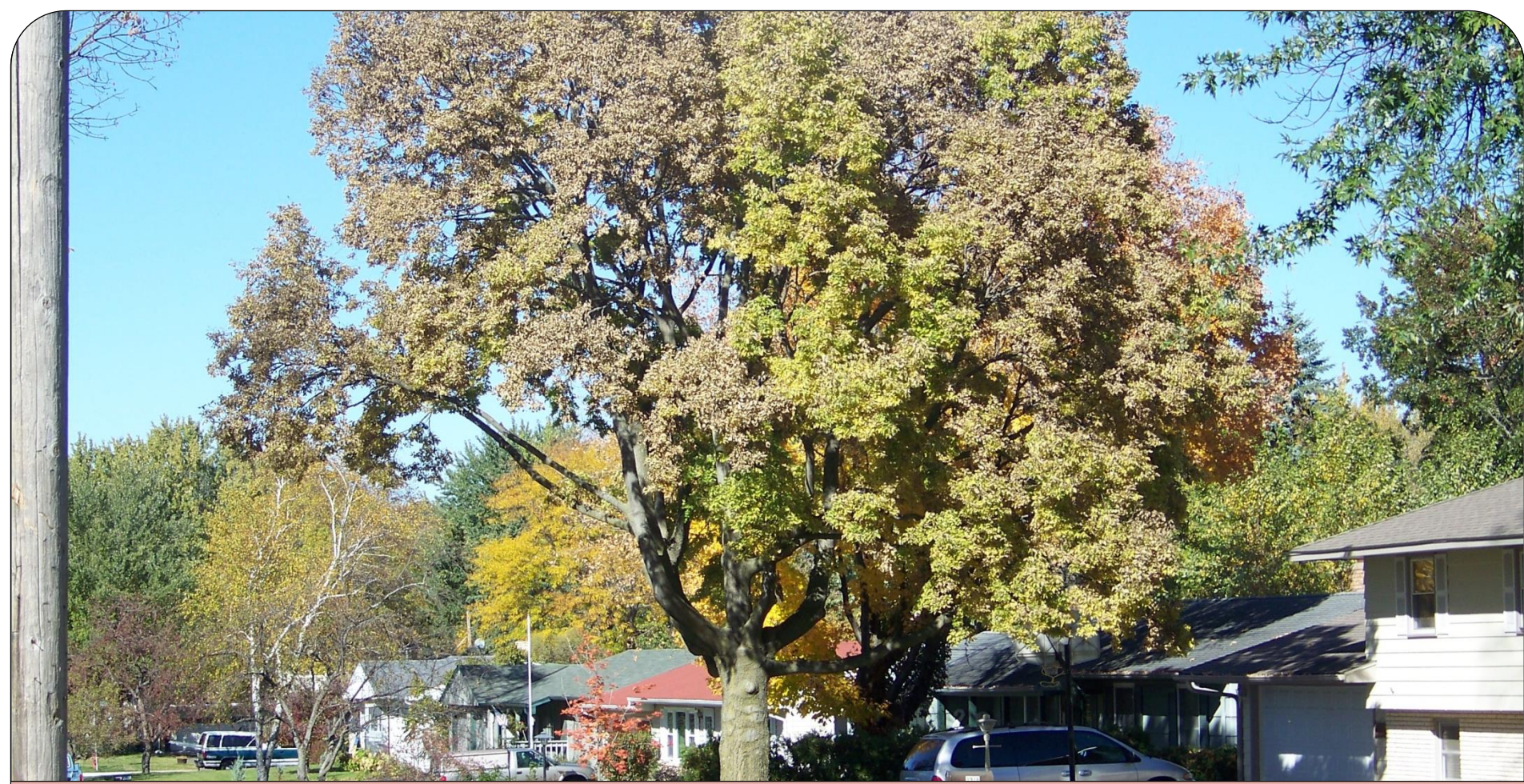
Erosion control prevents construction debris from entering the storm sewer.



Tree Removal

Step 4





Tree Removal (if necessary)

We strive to preserve all healthy trees in our urban forest. However, there may be a limited number of trees on the street construction project whereby removal is unavoidable.





Tree Removal (if necessary)

You will be notified if our tree has been marked for removal. At that time, you will be given information on the City's Tree Replacement Program.



Pavement Removal

Step 5





Pavement Removal

One of the first steps in any reconstruction process is, of course, demolition.

For street projects, this means removing the existing pavement. This process is done in phases rather than the entire project area being done at once.





Pavement Removal

Contractors will remove the pavement with large backhoes and haul it away in dump trucks, or they may grind it up in place.



Underground Utility Work

Step 6

Water Shut Off

Sanitary Sewer Wye Replacement

Storm Sewer Modification

Sanitary Sewer Modification





Water Shut Off

When hydrants are replaced or other watermain repairs are needed, your water may have to be shut down for a period of time. This work is typically scheduled between 9:00 a.m. and 3:00 p.m. The Engineering Department will try to notify you of this work 24 hours in advance.





Sanitary Sewer Wye Replacement

Residents within the street reconstruction project can have their sanitary sewer service connection and a portion of sanitary sewer pipe replaced as part of the City's Residential Sanitary Sewer Wye Replacement Program.





Storm Sewer

Storm sewer work is typically done in only one location or intersection at a time, and usually won't affect access to your driveway.





Storm Sewer

If your driveway will need to be blocked for installation of storm sewer pipe or structures, City staff and crews will notify you beforehand so you can get your vehicles out for the day.



Subgrade Compaction and Gravel Base Placement

Step 7





Subgrade Compaction and Gravel Base Placement

After all underground utility work has been completed, the subgrade soils are compacted and a new gravel base for the street is hauled in.

These processes are vital to ensure a solid foundation for the street.





Subgrade Compaction and Gravel Base Placement

The Contractor will use vibrating compactors which will cause various degrees of vibration which may be felt in your home.

This will translate into shaky walls – make sure hanging items or breakables on open shelving are secured or removed.



Install Curb and Gutter

Step 8





Install Curb and Gutter

Once the gravel base placement is complete, concrete curb and gutter will be poured. Modern slip-form machines allow this work to proceed very quickly with a single crew, often completing over 5,000 feet per day.





Install Curb and Gutter

One or two days prior to pouring the curb, crews will mark your driveway openings with small white stakes. These stakes indicate the proposed extents of the curb opening (lowest “drive-able” portion of the curb).





Three-Foot sloped "wing"



Install Curb and Gutter

All driveways will also include a three-foot wing on each side which slopes up to match the full height of the curb.





Install Curb and Gutter

After the curb and gutter has been placed, you will not be able to access your driveway for 5 days, or until the Contractor has ramped your driveway with gravel. You will be able to parallel park in the street during the evenings, taking extreme care not to hit the newly-placed curb.



Install New Concrete Driveways and Aprons

Step 9





Install New Concrete Driveways and Aprons

Next, concrete aprons are installed for existing concrete driveways that had a portion removed.





Install New Concrete Driveways and Aprons

For residents having full driveway replacement as part of the City's program, this work is also completed.

As a courtesy reminder, the Contractor will knock on your door to let you know that they will be beginning work on your driveway.



Pave First Lift of Bituminous

Step 10





Pave First Lift of Bituminous

Once the curb and gutter are placed, the Contractor will haul in more gravel to place between the curbs and then compact it.

The Contractor will then begin paving the first lift of bituminous.





Pave First Lift of Bituminous

You will not be able to drive on the paved portion of the road for at least two hours or until they have finished rolling the newly paved roads. We ask that you take extreme care not to make sharp turns on the new bituminous pavement.

New asphalt is very hot (**approximately 300°F**) when placed. Parents should keep children and pets a safe distance away from the new pavement until it cools.



Install New Bituminous Driveways and Aprons

Step 11





Install New Bituminous Driveways and Aprons

For those residents having full driveway replacement as part of the City's program, this work is now completed.

As a courtesy reminder, the Contractor will knock on your door to let you know that they will be beginning work on your driveway.





Install New Bituminous Driveways and Aprons

Vehicles can be driven across the new asphalt; however, we recommend that you do not park on the new bituminous for at least 5 days. The longer it cools off and cures, the better it is for the aprons.

We also ask that you take extreme care not to make sharp turns on the new bituminous.



Sod Installation and Restoration

Step 12

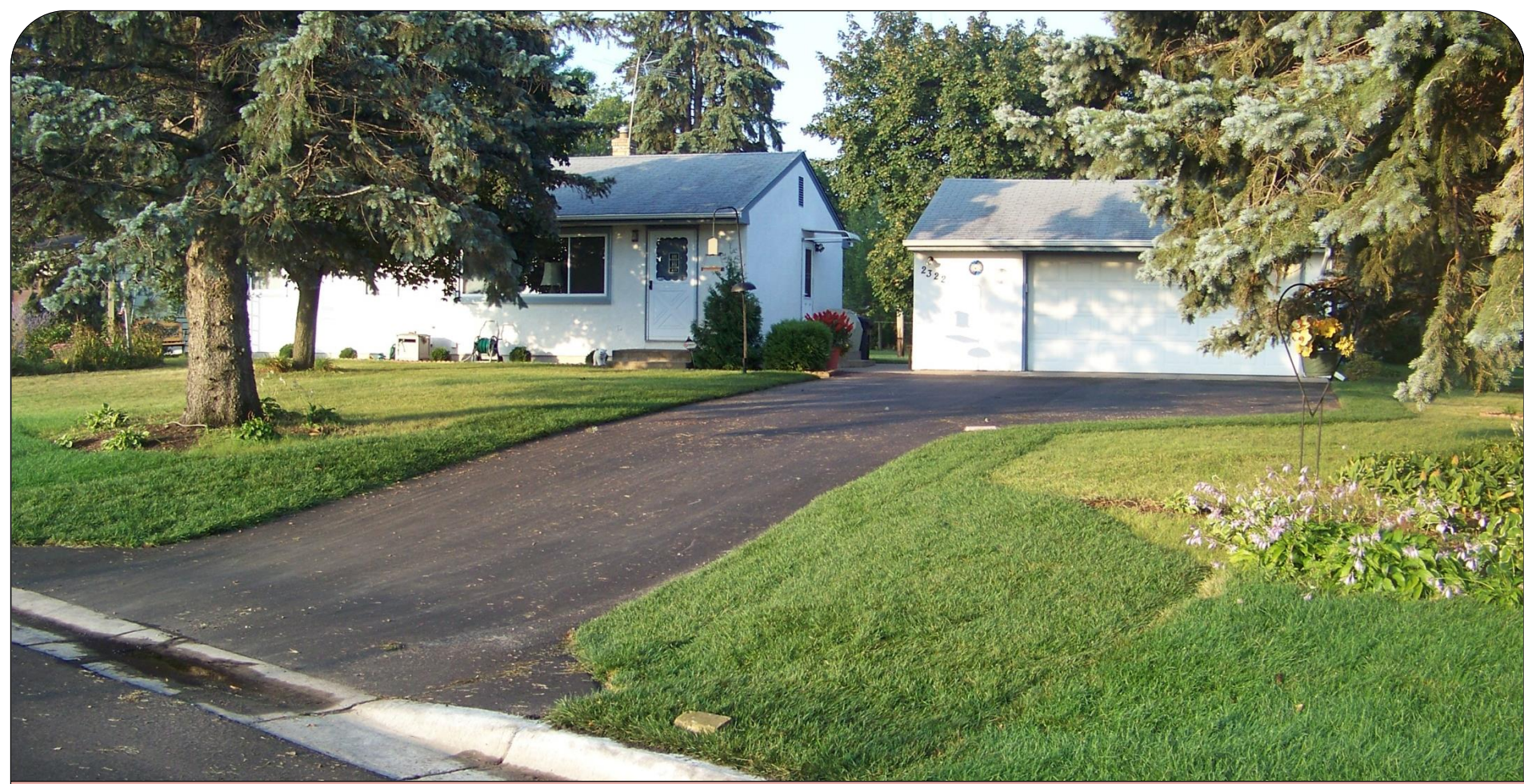




Sod Installation and Restoration

The Landscape Contractor will grade and backfill the boulevards with topsoil and lay the sod.





Sod Installation and Restoration

For residents that had new driveways installed and **paid for sod restoration**, the Contractor will also be completing that work.



Final Lift of Bituminous

Step 13
(The Final Step)





Final Lift of Bituminous

The last step in placement of your new street is laying the final lift of bituminous.





Final Lift of Bituminous

You will not be able to drive on the paved portion of the road for at least two hours or until they have finished rolling the newly paved roads.

We ask that you take extreme care not to make sharp turns on the new bituminous pavement.





Final Lift of Bituminous

New asphalt is very hot (approximately 300°F) when placed. Parents should keep children and pets a safe distance away from the new pavement until it cools.



Who to Call

Street Reconstruction Project
Contact Information



Important Phone Numbers

City of White Bear Lake Engineering Department	(651) 429-8531
City of White Bear Lake Police Non-Emergency	(651) 429-8511
City of White Bear Lake Utility Billing Clerk	(651) 429-8565
Xcel Energy	(800) 895-2999
White Bear Lake Post Office	(651) 762-1437



City of White Bear Lake



RAINGARDENS & Street Reconstruction



A partnership with the City of White Bear Lake,
residents, and Rice Creek Watershed District

Raingardens and Street Reconstruction

- Convenient and cost effective time to install a curb cut raingarden
- Local expertise and financial resources available



2018 Project:
Morehead & 10th

What is a raingarden?

A garden with a small depression that captures rainwater runoff from streets, roofs, driveways, and yards during storms and briefly holds the water until it is absorbed by the soil.



Pretreatment
area captures
sediment

Why are Raingardens Important?

Stormwater runoff picks up sediment, road salt, oil, gas, leaves, fertilizers, pesticides, and trash from impervious surfaces and lawns and are washed into storm sewers and ultimately the lake.

By capturing and soaking stormwater runoff into the ground, raingardens prevent polluted stormwater from entering the storm sewer system.



Local Expertise and Financial Resources

Rice Creek Watershed District will:

- Provide a design at no cost
- Hire a contractor
- Reimburse 25%-75% of the cost of materials and approved labor, up to \$7,500 depending on the project
- Provide guidance & monitoring for 5 years following installation

Homeowner responsibilities:

- Pay for a portion of the construction cost
- Maintain the raingarden for 10 years

City will:

- Provide a curb-cut as part of street reconstruction, for appropriate locations* (\$600-\$700 value)

* *Sites are selected based on soil type, street drainage, and other factors.*



Interested in learning more about the raingarden program?

Add your name and contact information to the interest list at the front table

-or-

contact:

Connie Taillon

Phone: 651-429-8587

Email:

ctaillon@whitebearlake.org

Other cost share opportunities

RCWD Mini-Grants Program

- Native plants, including pollinator gardens

- Rain barrels



Thank You!

Thank you for taking the time to view this presentation. We hope it helps you to understand the process and what to expect during the entire street reconstruction project. We look forward to serving you in the 2020 construction season.

~ The White Bear Lake Engineering Department

