



# 2018 Street and Utility Improvement Project



Neighborhood Information Meeting  
July 27, 2017

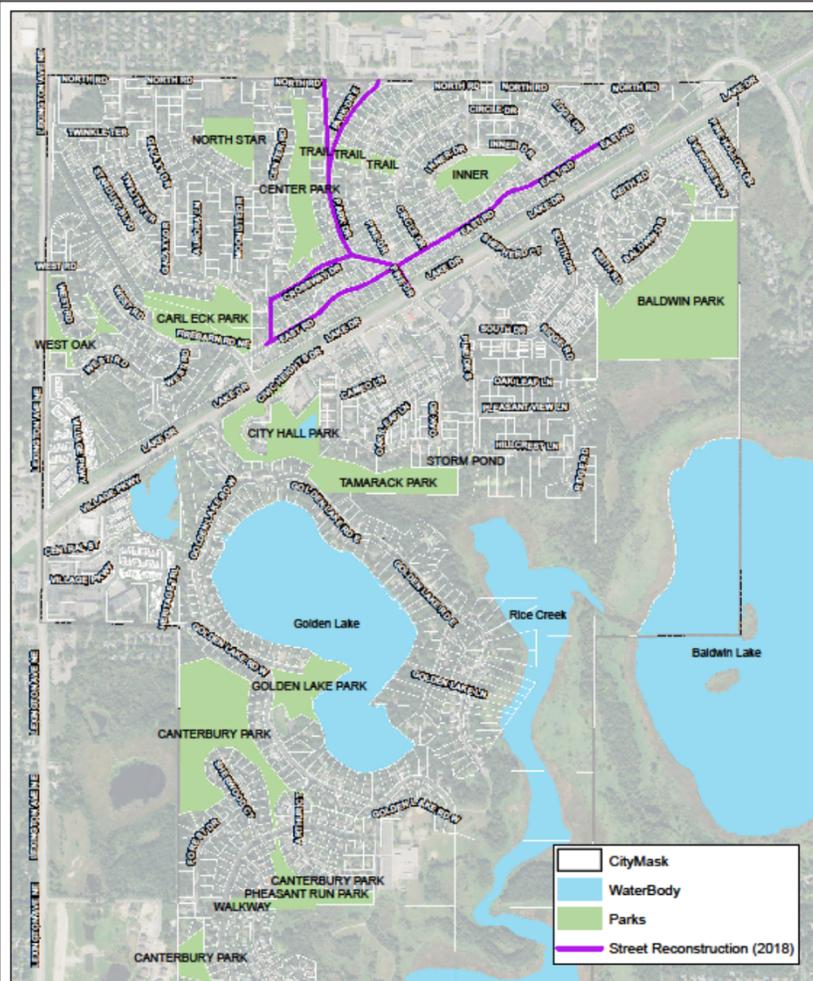
# Presentation Overview

- Project Location
- Existing Conditions
- Proposed Improvements
- Discussion Items
- Project Costs
- Assessments / Funding
- Schedule
- Questions and Comments

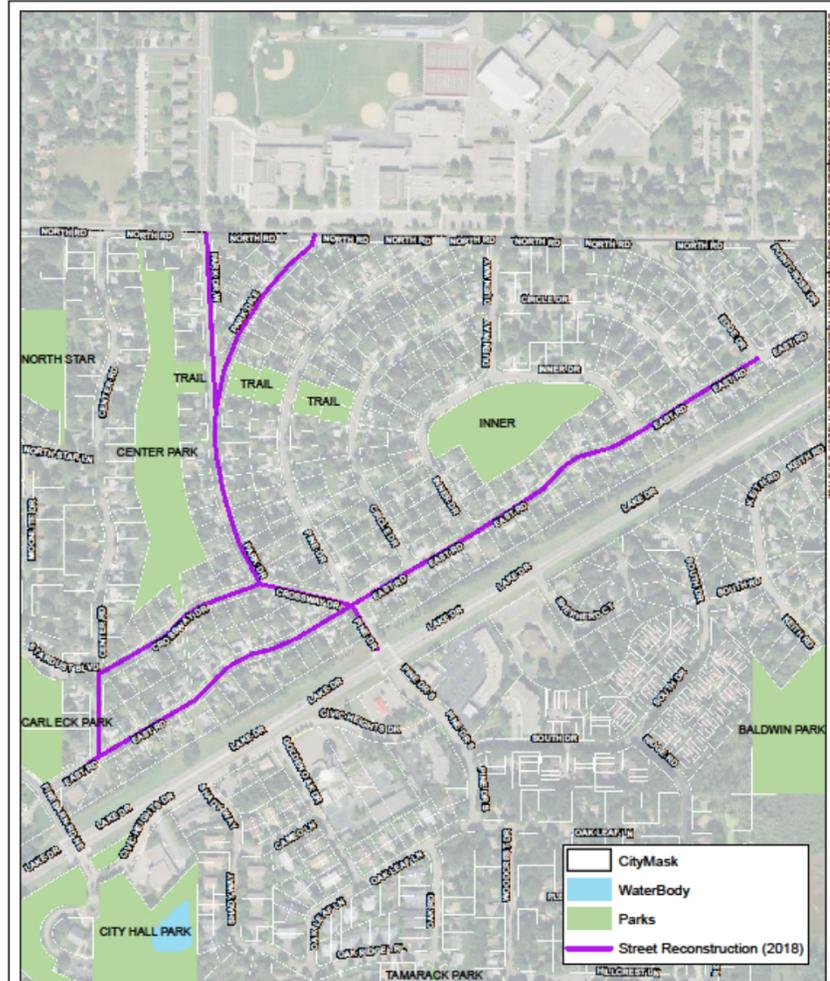
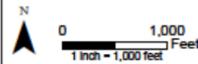


Park Drive East and Park Drive West intersection

# Project Location



**Figure 1 - Layout**  
2018 Street and Utility Improvement Project  
City of Circle Pines



**Figure 1 - Layout**  
2018 Street and Utility Improvement Project  
City of Circle Pines



# Existing Conditions

## ■ Street

- ❖ 1.55 miles of residential streets that were mostly constructed in 1967 (50 years old)
- ❖ Prevalent cracking in pavement (alligator, transverse, longitudinal, and edge)
- ❖ Condition index rated as “Poor” according to 2011 Pavement Management Program



Intersection of Center Road and East Road



Intersection of Pine Drive and East Road

# Existing Sanitary Sewer Conditions

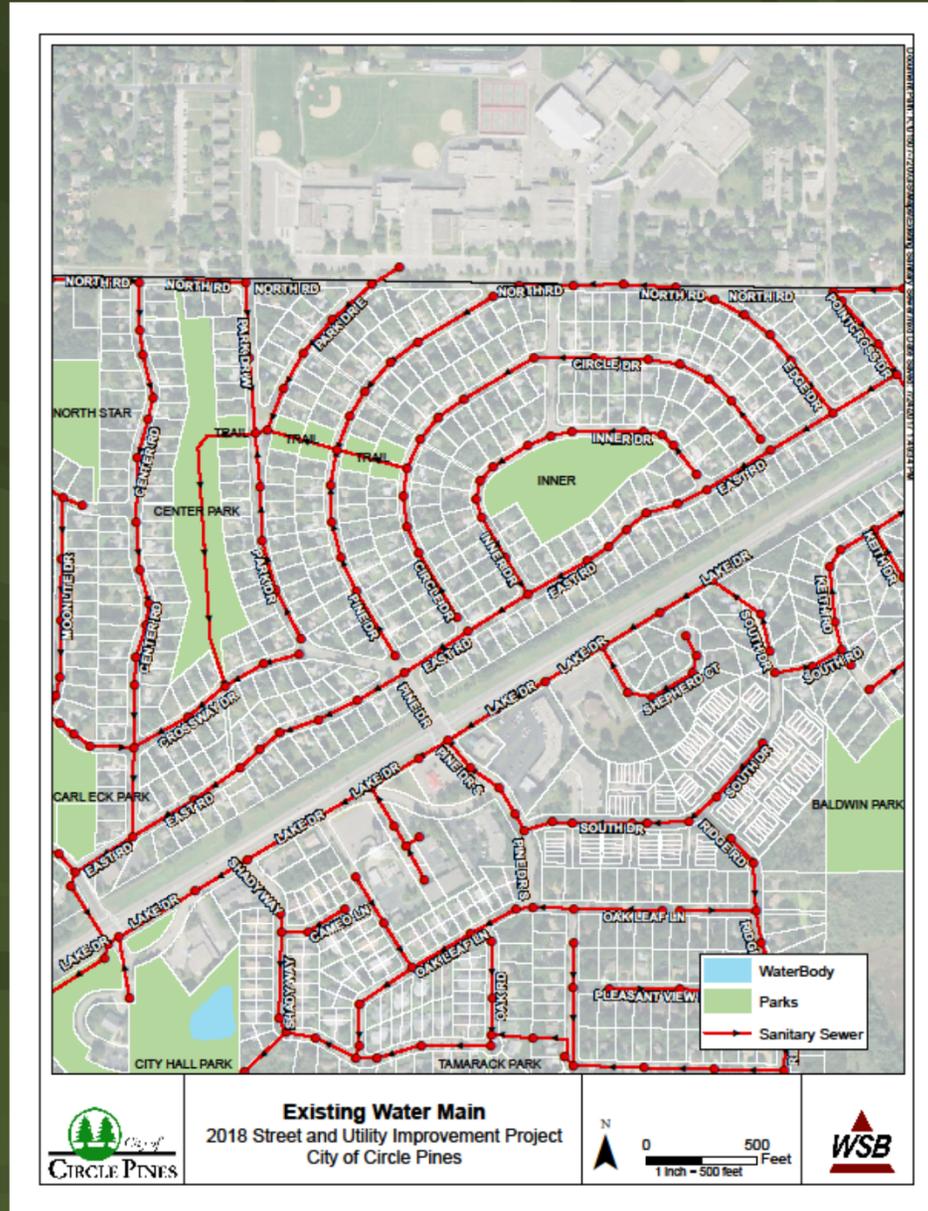
## ■ Sanitary Sewer

- ❖ Root intrusion in mainline and service lines, cracked segments, and mineral deposits at joints
- ❖ Sanitary sewer has multiple sagging segments
- ❖ High infiltration rate
- ❖ Existing Sanitary Sewer is Vitrified Clay Pipe



Image of Sanitary Sewer Segment

# Existing Sanitary Sewer



# Existing Water Main Conditions

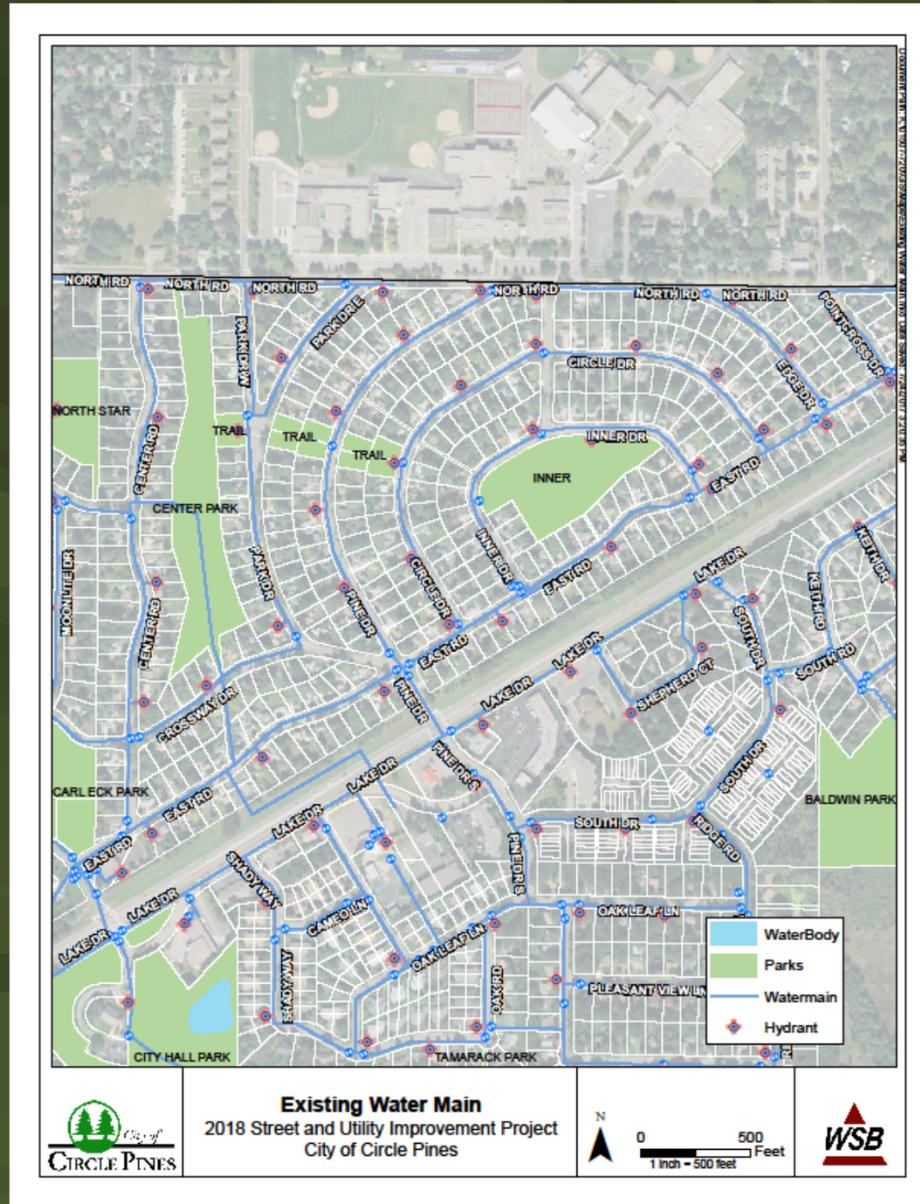
## ■ Water Main

- ❖ Existing main line is cast iron pipe
- ❖ Some hydrant locations are not easily accessible



Hydrant on East Road and Center Drive

# Existing Sanitary Sewer

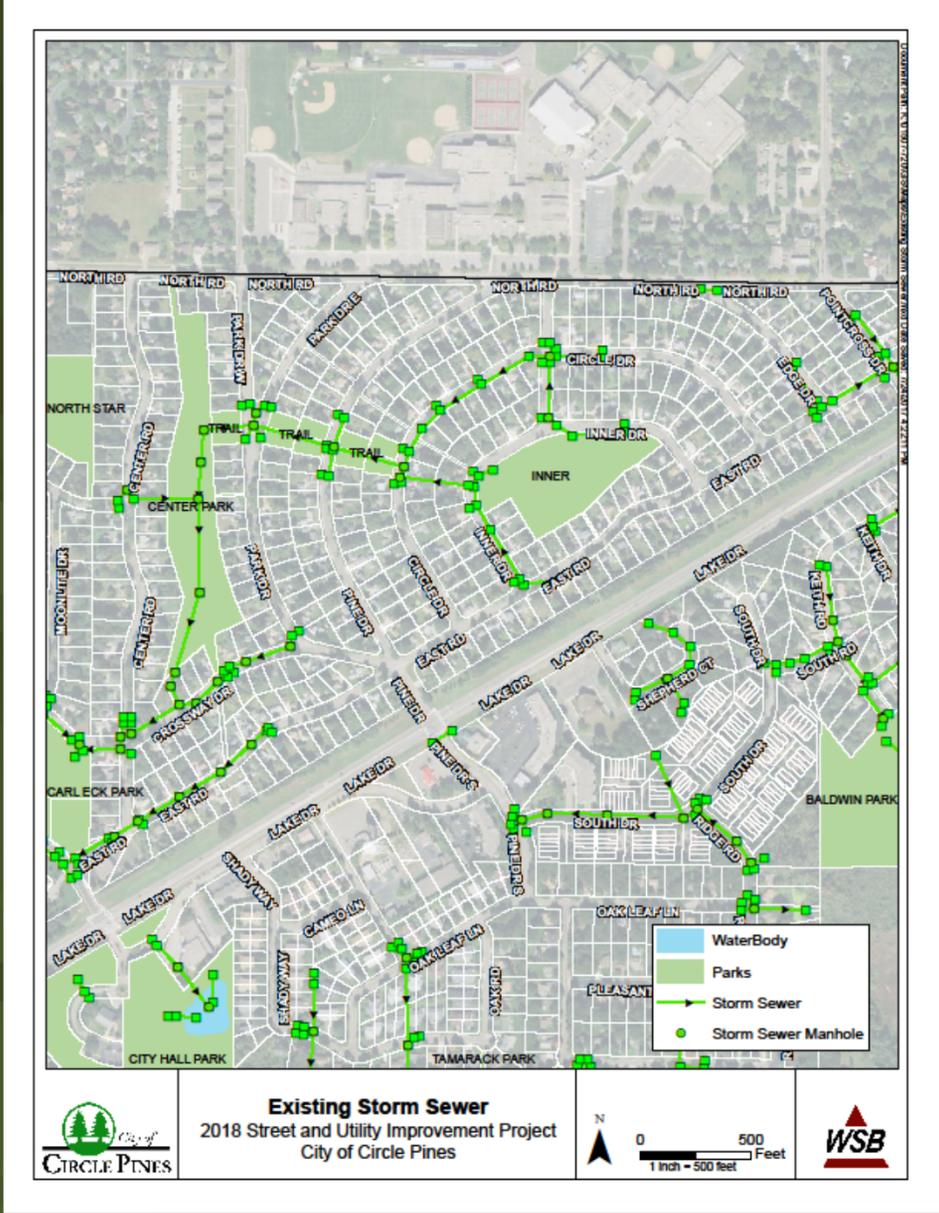


# Existing Storm Sewer Conditions

## ■ Storm Sewer

- ❖ Existing storm sewer was sized for design standards at the time of construction
- ❖ Storm sewer discharges directly to ditch which runs to Golden Lake
- ❖ Surface flow can cause surface deterioration of the pavement
- ❖ Existing storm sewer has no treatment for storm water

# Existing Storm Sewer



# Proposed Improvements

## ■ Street Reconstruction

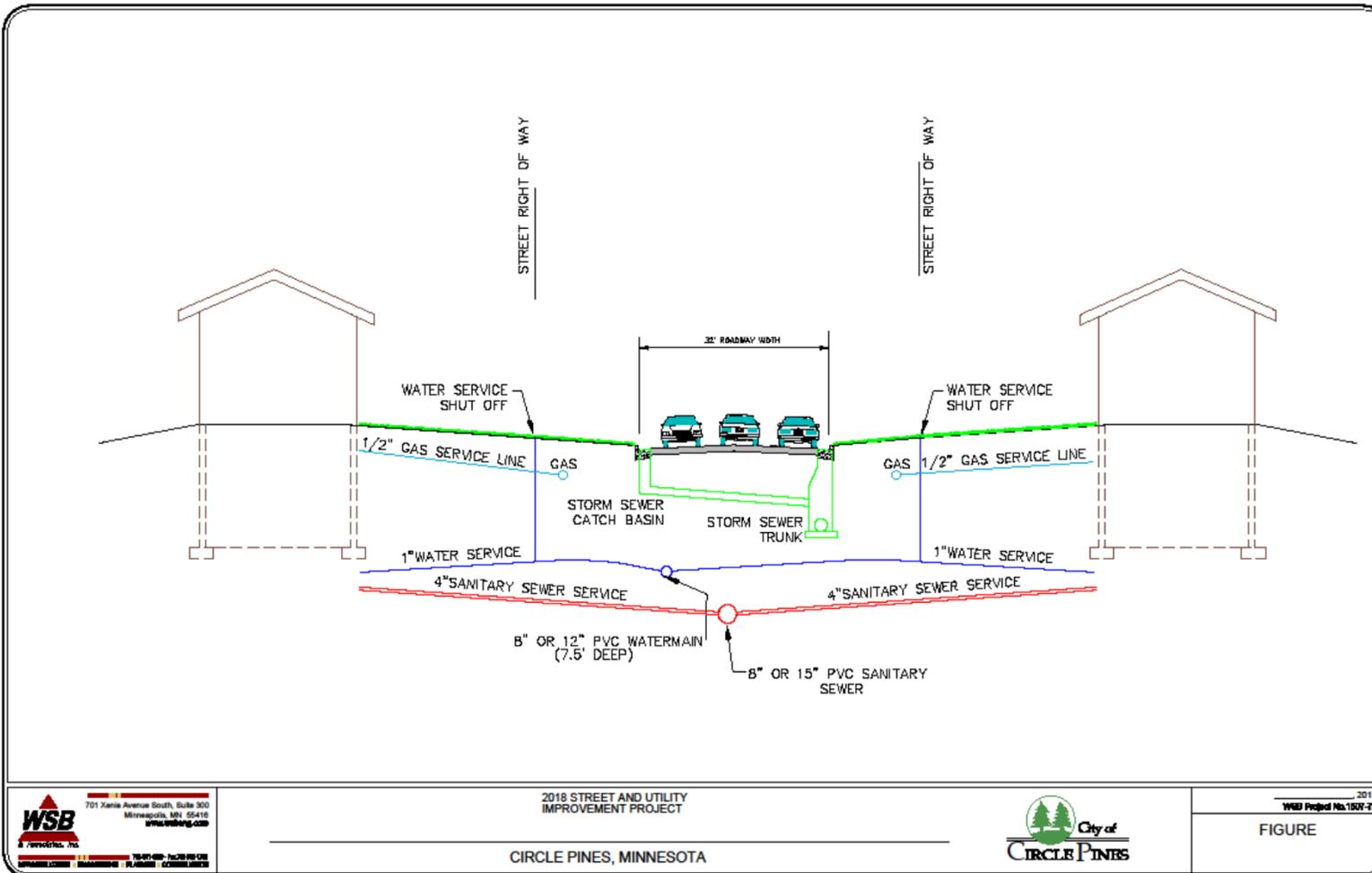
### ❖ Existing Widths

- 32 foot street widths
- Complete reconstruction including curb and gutter, bituminous pavement, and subgrade preparation



Park Drive and Crossway Drive Intersection

# Proposed Improvements



**WSB**  
701 Xenia Avenue South, Suite 300  
Minneapolis, MN 55410  
www.wsb.org

2018 STREET AND UTILITY  
IMPROVEMENT PROJECT

CIRCLE PINES, MINNESOTA



2015  
WSB Project No. 1507-78  
FIGURE

Typical Cross Section

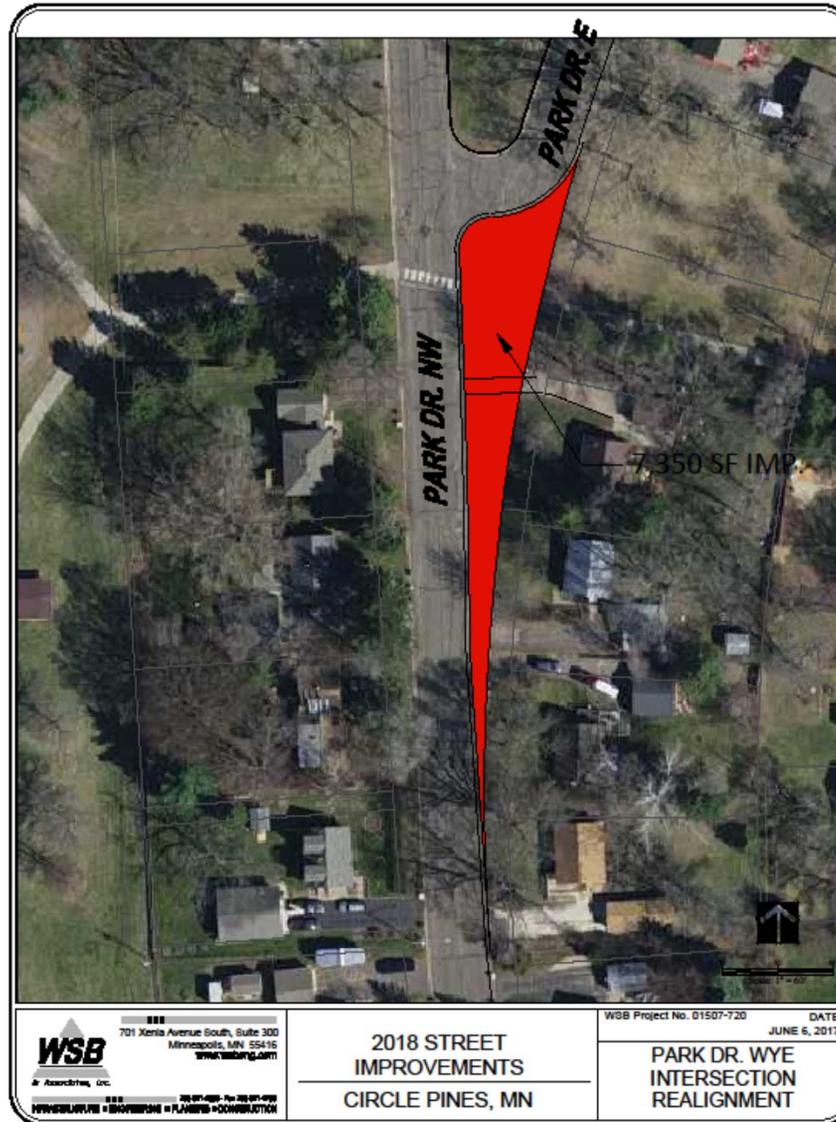
# Discussion Items

- Realign intersection of Park Drive West and Park Drive East
  - Option 1- Maintain existing alignment
  - Option 2- Realign Park Drive East to connect with Park Drive West at close to a 90° angle



Park Drive West and Park Drive East Intersection

# Proposed Improvements



# Proposed Improvements

## ■ Storm Sewer

### ❖ Drainage Improvements

- Redesign storm system to better meet current demands and design standards
  - Adding additional catch basins

### ❖ Utilize existing storm sewer outlet locations

### ❖ Storm Water Treatment

- Several options are being evaluated for the feasibility study to treat the storm water before it will enter the ditch that runs to Golden Lake

# Proposed Improvements

## ■ **Gas Main Replacement (by Centennial Utilities)**

- ❖ Dual 2" plastic gas main (1 main on each side of street)
- ❖ Gas service replacement from the main to the home meter
- ❖ Completed prior to street and utility construction

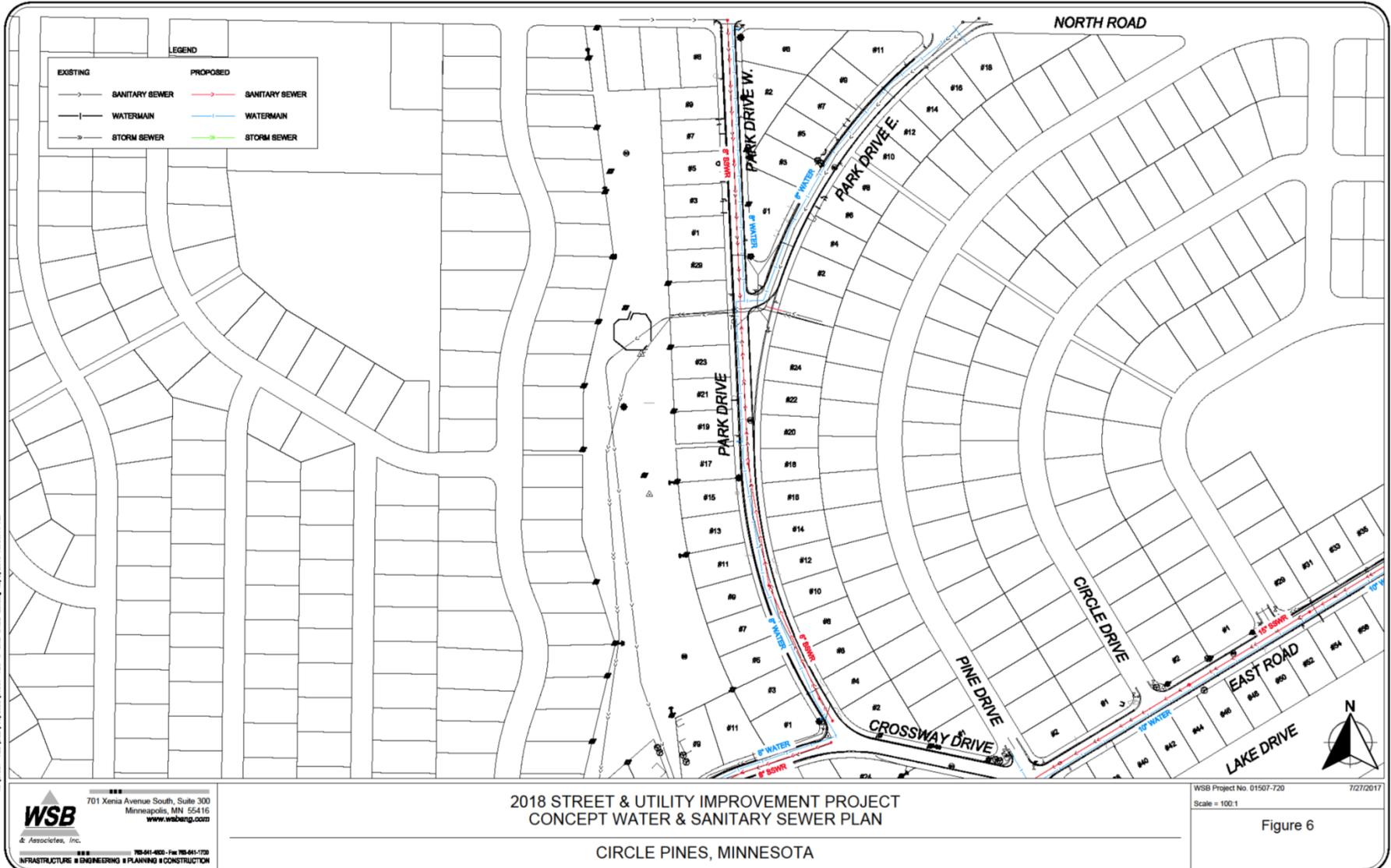
## ■ **Water Main Replacement**

- ❖ 8" and 12" PVC water main
- ❖ 1" HDPE water services replaced to the Right-of-Way
- ❖ New hydrants and gate valves

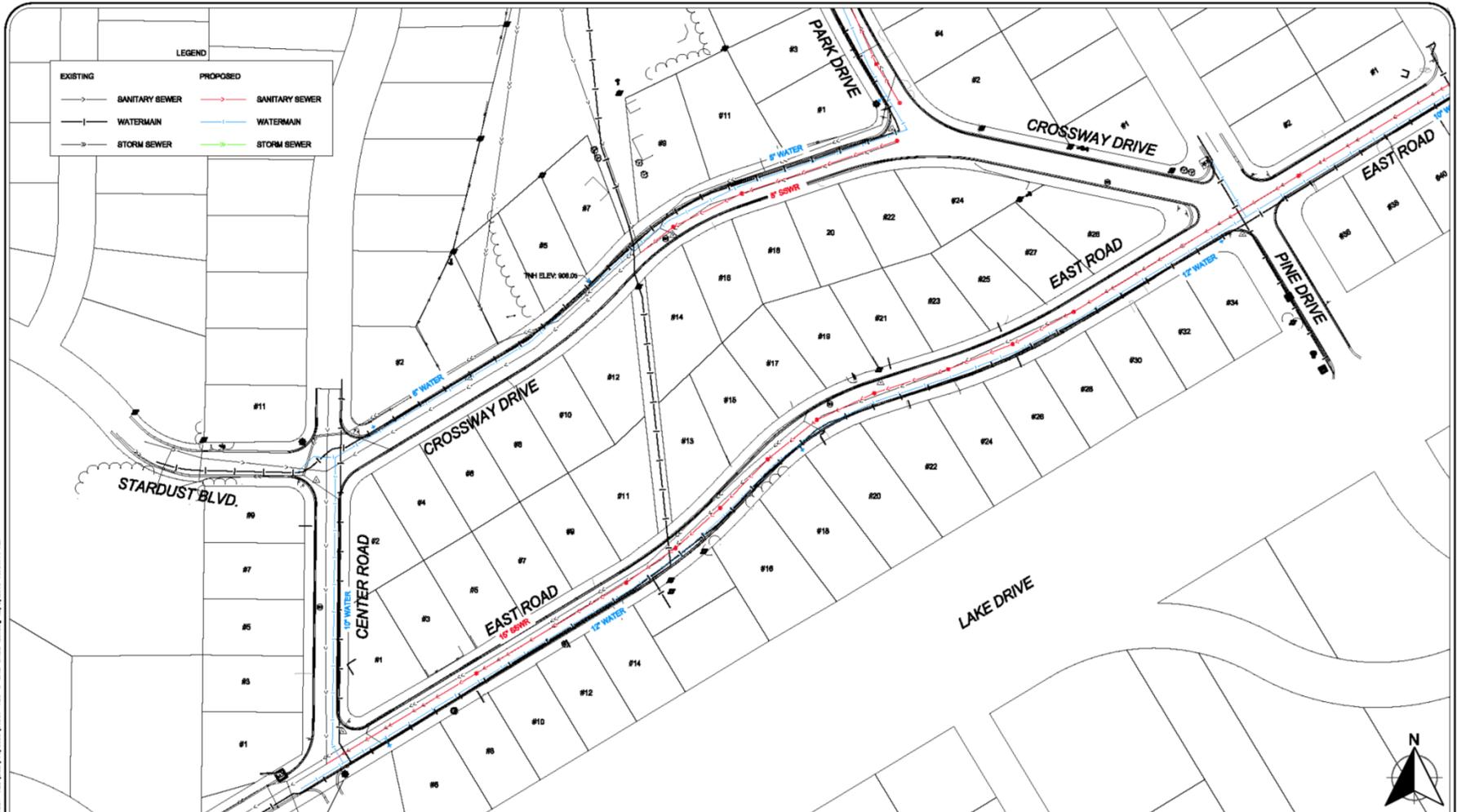
## ■ **Sanitary Sewer Replacement**

- ❖ 8" and 15" PVC sanitary sewer main
- ❖ 4" PVC sanitary sewer services replaced to the Right-of-Way
- ❖ Replace all sanitary sewer services that connect to Metropolitan Council sanitary lines

# Proposed Improvements



# Proposed Improvements



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 & Associates, Inc.  
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 Minneapolis, MN 55416  
 www.wsbeng.com  
 TEL: 612-833-1770 FAX: 612-833-1770  
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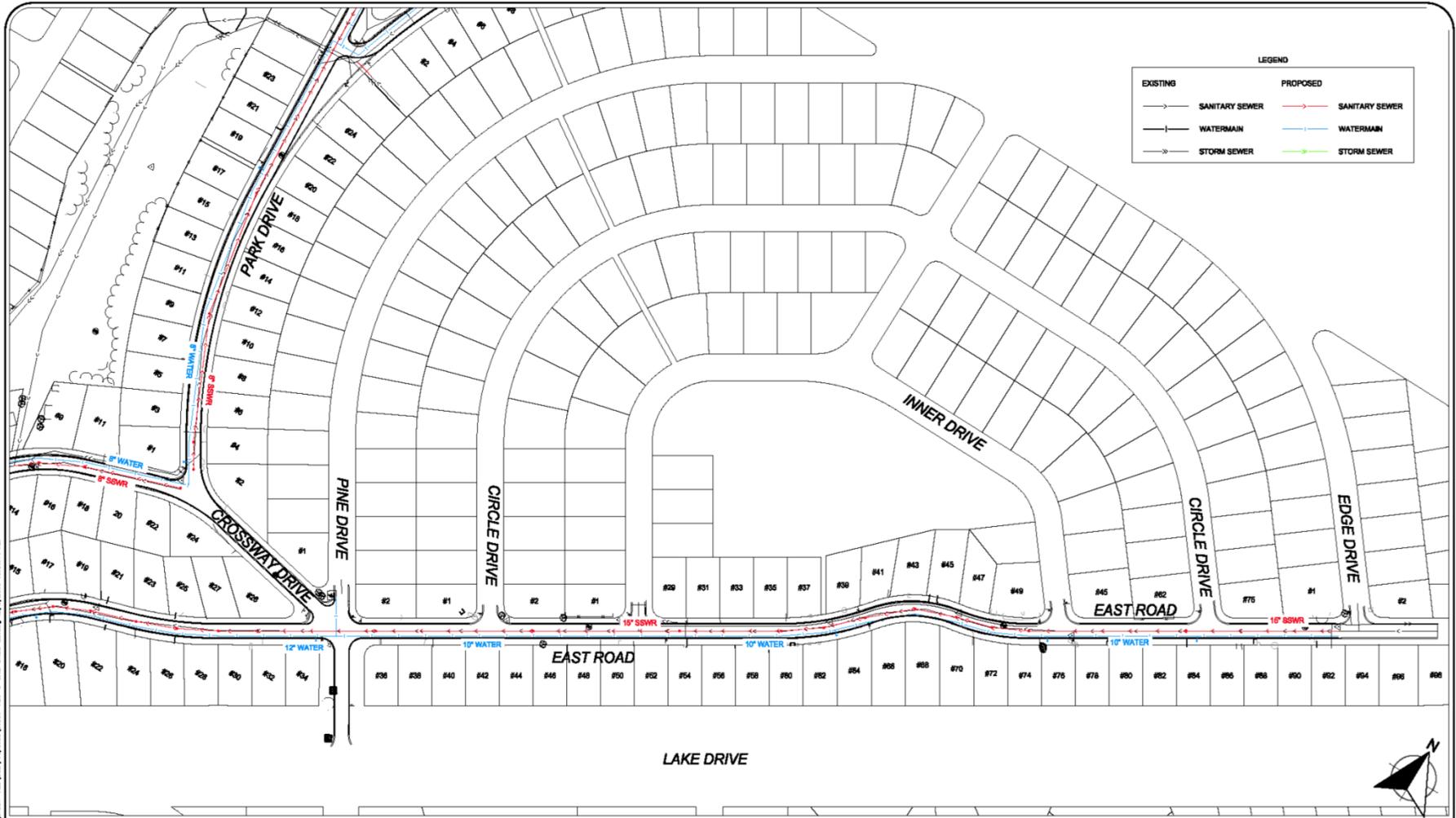
2018 STREET & UTILITY IMPROVEMENT PROJECT  
 CONCEPT WATER & SANITARY SEWER PLAN

CIRCLE PINES, MINNESOTA

WSB Project No. 01507-720  
 Scale = 60:1  
 7/27/2017

Figure 7

# Proposed Improvements



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 & Associates, Inc.  
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 Minneapolis, MN 55416  
 www.wsbeng.com  
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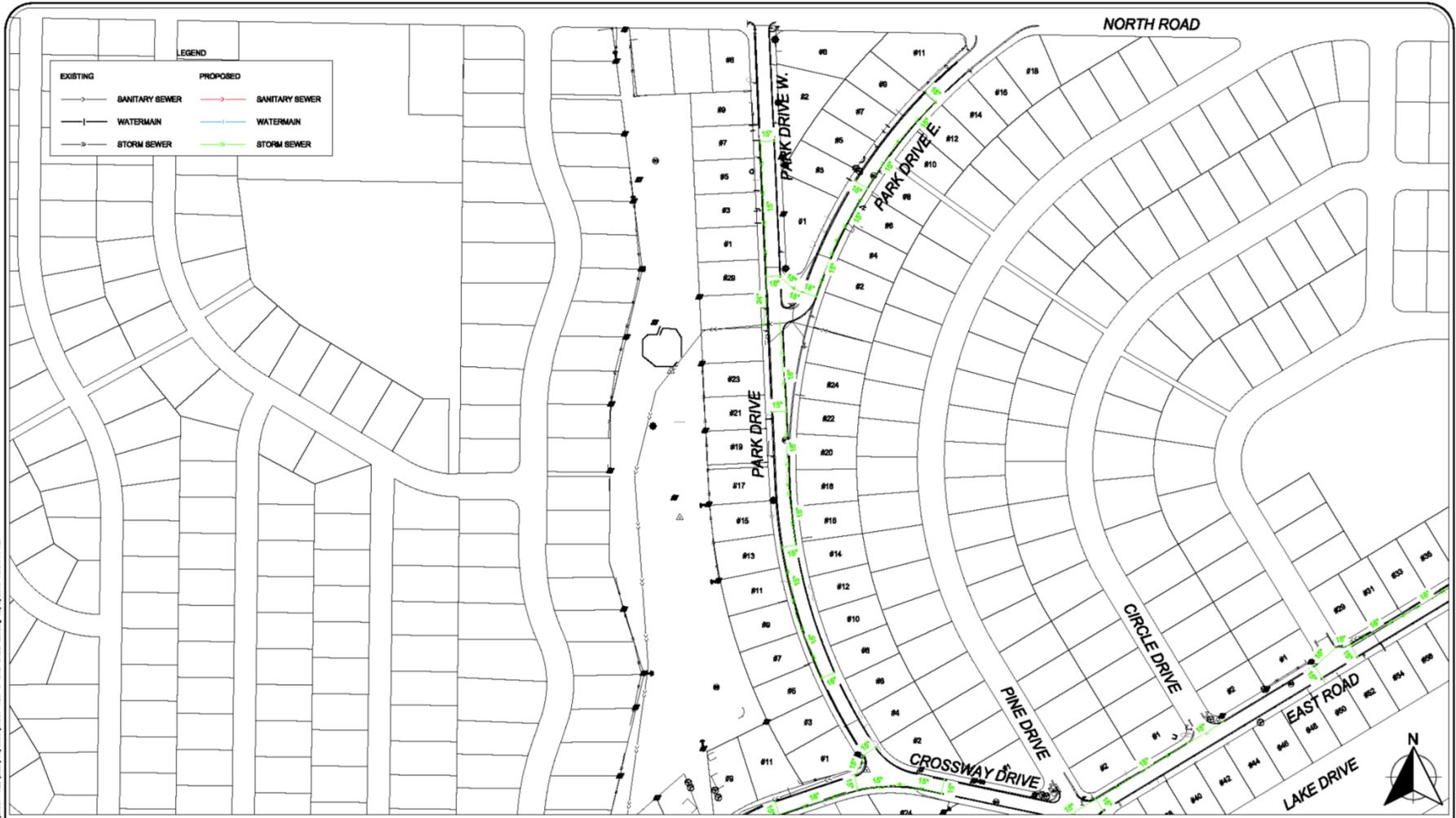
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Figure 8

# Proposed Improvements



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 & Associates, Inc.  
 701 Xenia Avenue South, Suite 300  
 Minneapolis, MN 55416  
 www.wsbeng.com

2018 STREET & UTILITY IMPROVEMENT PROJECT  
 STORM SEWER PLAN

CIRCLE PINES, MINNESOTA

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Figure 9

# Proposed Improvements



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Minneapolis, MN 55416  
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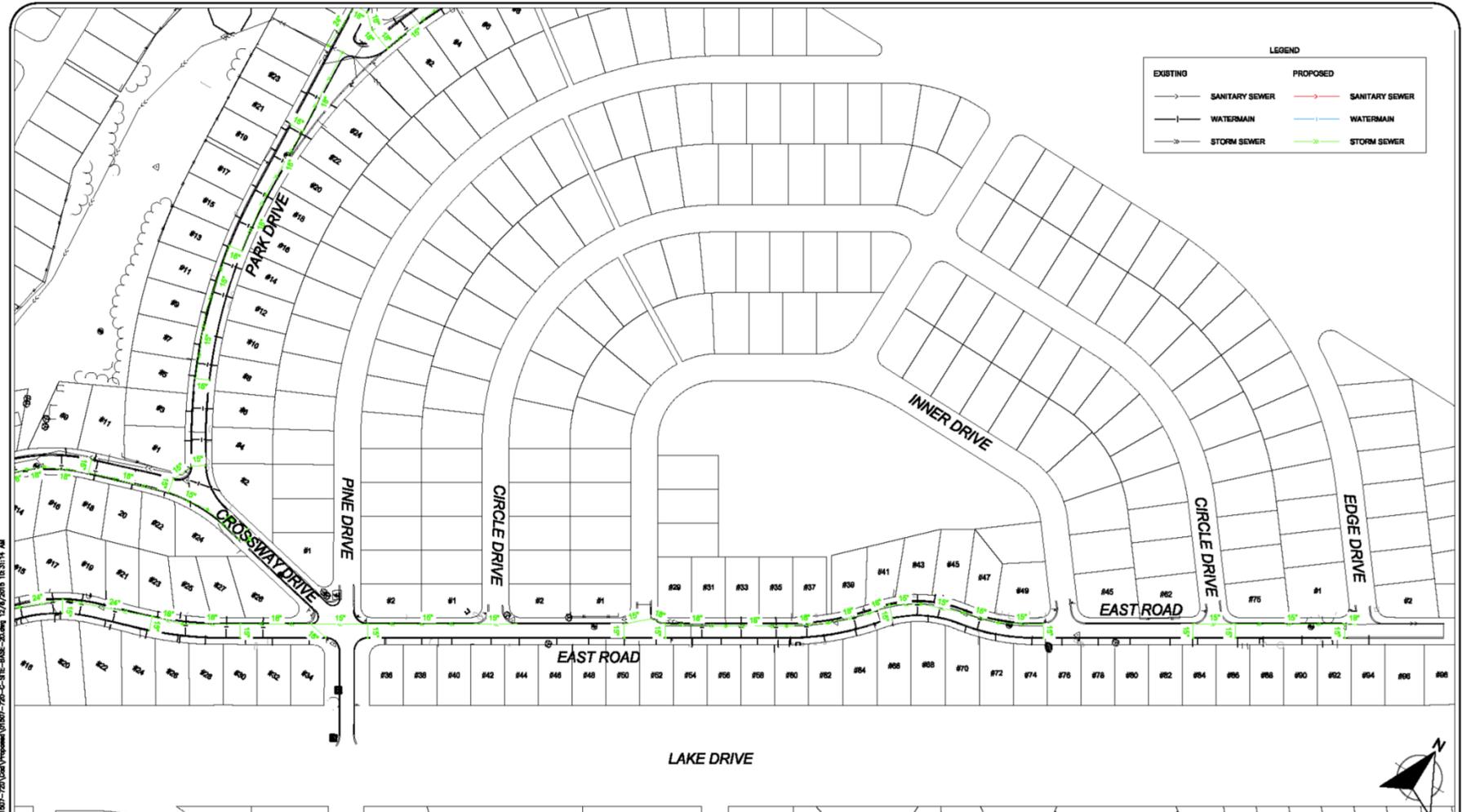
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STORM SEWER PLAN

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Figure 10

# Proposed Improvements



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 www.wsbeng.com  
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 7/27/2017

Figure 11

# Proposed Improvements

## ■ Remove trees in Right-Of-Way

- ❖ Increased sight distance on curves and driveways
- ❖ Increased safety for pedestrians and vehicles



2016 East Golden Lake Road Before

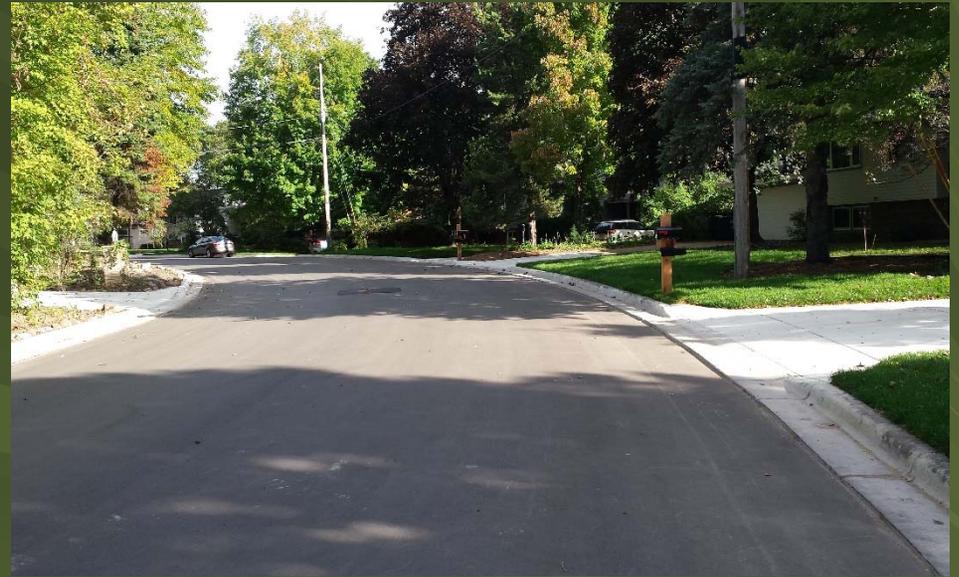


2016 East Golden Lake Road After

# Recent Projects



East Golden Lake Road Before



East Golden Lake Road After

# Project Costs

## Summary of Cost

	Total
Street Improvements	\$1,994,877
Sanitary Sewer Improvements	\$975,287
Water Main Improvements	\$1,022,533
Storm Sewer Improvements	\$992,089
<b>Total</b>	<b>\$4,984,786</b>

# Assessment Policy and Funding

- Current Assessment Policy is a flat and equal rate
  - ❖ Current Street Reconstruct Assessment: \$4,380 per unit
    - ❖ 148 assessable properties
    - ❖ Proposed to increase to \$4,600 (5% increase)
- City Funds Remaining Street Improvements
- City Funds 100% of Utility Improvements

# Project Assessment

Total Reconstruct Street Improvement Cost	\$1,994,877
Total Assessable Reconstruct Units	148
Assessment Rate	\$4,600
Total Assessment	\$680,800

*\*Assessment equates to \$585/yr for 10 years at 5% (estimated- contingent on bond sale) interest rate*

# Assessable Units



**Figure 10 - Assessment Map**  
2018 Street and Utility Improvement Project  
City of Circle Pines



# Assessment Payment Methods

## Option 1

- Pre-pay full assessment amount without interest to the City of Circle Pines in November 2018 (30 days after the assessment hearing-to be held in October 2018)

## Option 2 (Full Reconstruct)

- Pay assessment with property taxes over a 10-year period at 5.0% interest (estimated, contingent on bond sale) starting in 2018

## Partial Payment Options

- Pre-pay partial assessment amount without interest to the City of Circle Pines in November 2018
- Pay off remaining assessment amount in November of such year

## Hardship Deferrals

# Funding Scenario

## Proposed Funding

Special Assessments	\$680,800
Street Reconstruction Fund	\$1,314,077
Sanitary Sewer Fund	\$975,287
Water Main Fund	\$1,022,533
Storm Water Fund	\$992,089
<b>Total Funding</b>	<b>\$4,984,786</b>

*\*Additional funding from State Aid Funding will also be utilized*

# Proposed Schedule

- City Approves Engineering Proposal Apr, 2017
- Survey, Soil Borings, Feasibility May-Aug, 2017
- Public Informational Meeting July 27, 2017
- City Accepts Feasibility Study Aug, 2017
- Public Hearing/Authorize Plans Sept, 2017
- City Approves Final Plans Dec, 2017
- Receive Bids Jan, 2018
- Award Contract Mar, 2018
- Begin Construction May-Jun, 2018
- Substantial Completion Oct 2018
- Assessment Hearing Oct-Nov 2018
- Final Completion Spring 2019

# Project Contact Information

- City of Circle Pines: 763-784-5898
- WSB & Associates
  - Eric Eckman– Project Manager: 763-512-5257

**Questions and Comments?**