



2012 Street and Utility Improvement Project



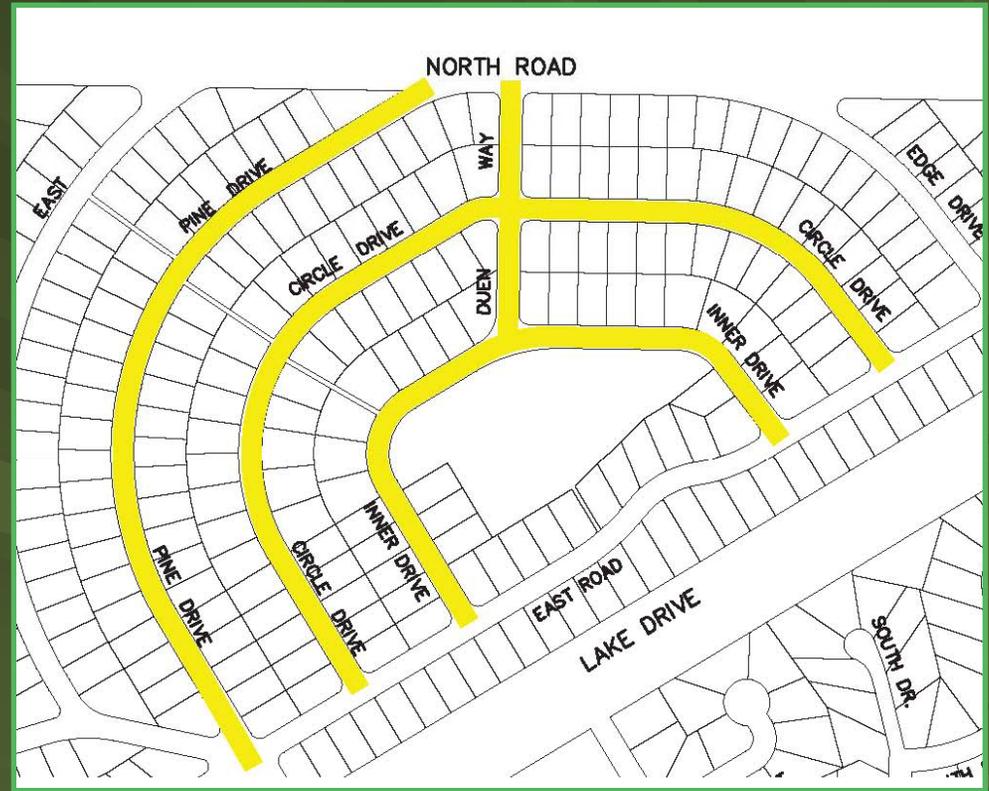
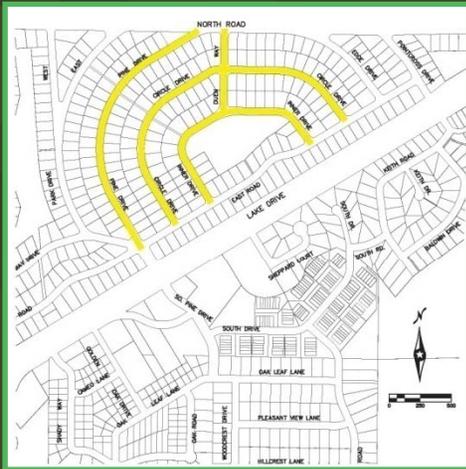
Feasibility Report
February 14, 2012

Presentation Summary

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



Project Location



Existing Conditions

■ Street

- ❖ 1.4 miles of residential streets constructed in 1968
- ❖ Prevalent cracking in pavement (alligator, transverse, longitudinal, and edge)
- ❖ Condition index rated as “Poor” according to 2011 Pavement Management Program



Pine Drive



Inner Drive

Existing Conditions

■ Sanitary Sewer

- ❖ Root intrusion in mainline and service lines, cracked segments, and mineral deposits at joints
- ❖ Pine Drive – sanitary sewer has significant number of root intrusions
- ❖ Occasional backups
- ❖ Infiltration

■ Water Main

- ❖ Existing main line is cast iron pipe
- ❖ Occasional breaks
- ❖ Hydrants in driveways

■ Storm Sewer

- ❖ Limited storm sewer catch basins within the area
- ❖ Existing storm sewer pipes are undersized for current design standards
- ❖ Surface flow can cause surface deterioration of the pavement

Proposed Improvements

■ Street Reconstruction

❖ Existing Widths

- 33 – 34 foot street widths

❖ Complete reconstruction including curb and gutter, bituminous pavement, and subgrade preparation

❖ Proposed Widths

- All streets to be 32 feet wide
 - 32 foot width allows for parking on one side



Intersection Improvements

■ Pine Drive and North Road



Proposed Improvements

■ Pedestrian Facilities

❖ Blinking pedestrian signs

- Mid-block crossing on Pine Drive
- Pine Drive and North Road intersection
- Park Drive East and North Road intersection

❖ Brick pattern crosswalk (Duratherm)

- North Road intersections



Blinking Pedestrian Signs



Proposed Improvements

■ Storm Sewer

❖ Drainage Improvements

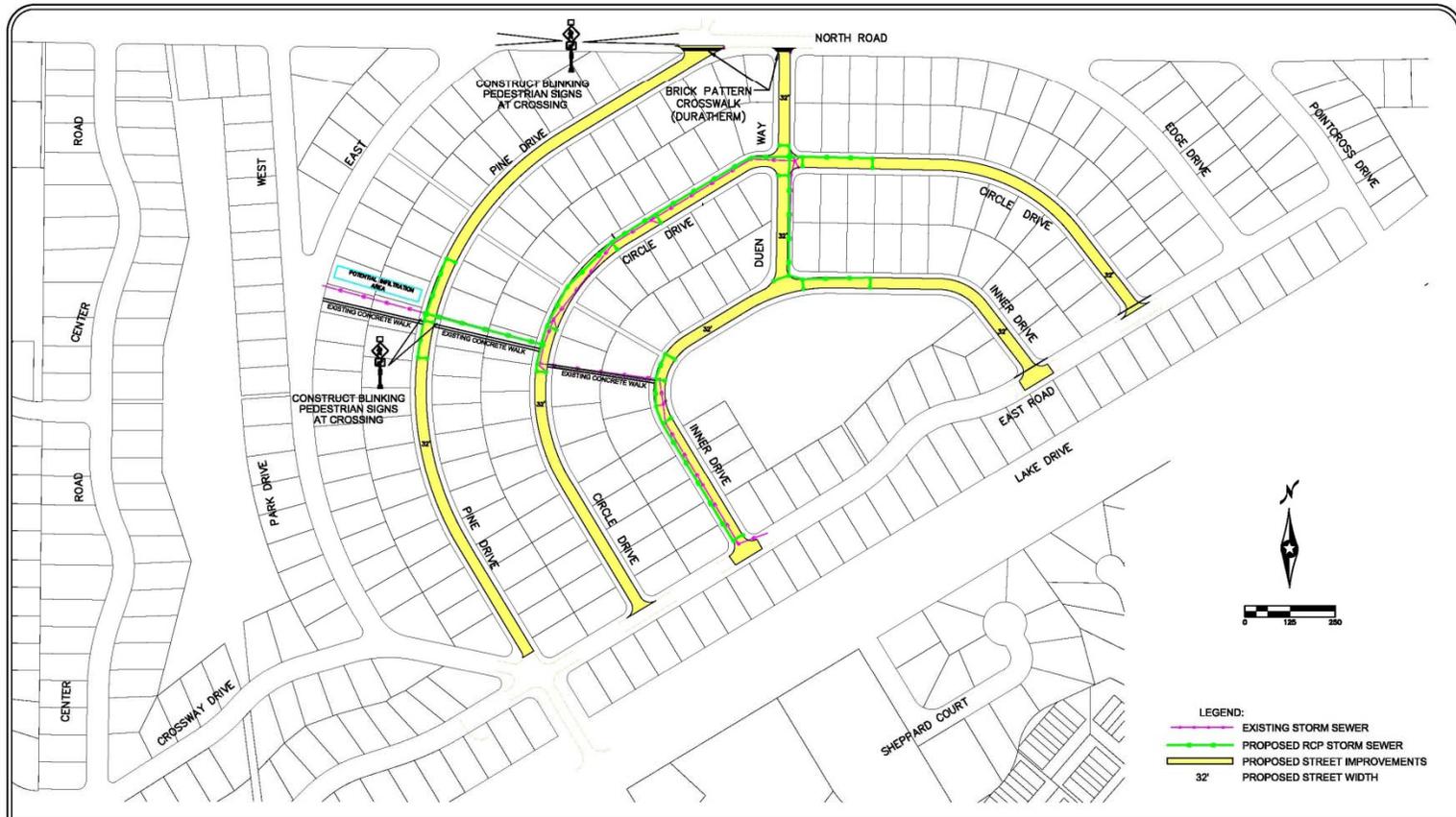
- Resident noted drainage concerns:
 - Circle Drive near the crosswalk
 - Intersection of Circle Drive and East Road

❖ Utilize segments of existing storm sewer outlet pipe between Inner Drive and Park Drive

❖ Storm Water Treatment

- Discussions with RCWD on regional system for Golden Lake
- Infiltration Basin (Alternative)

Proposed Improvements



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2012 STREET AND UTILITY
IMPROVEMENT PROJECT
RCP STORM SEWER AND STREET
CIRCLE PINES, MINNESOTA



February 14, 2011
WSB Project No. 1507-50

FIGURE
4

Proposed Improvements

■ **Water Main Replacement**

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

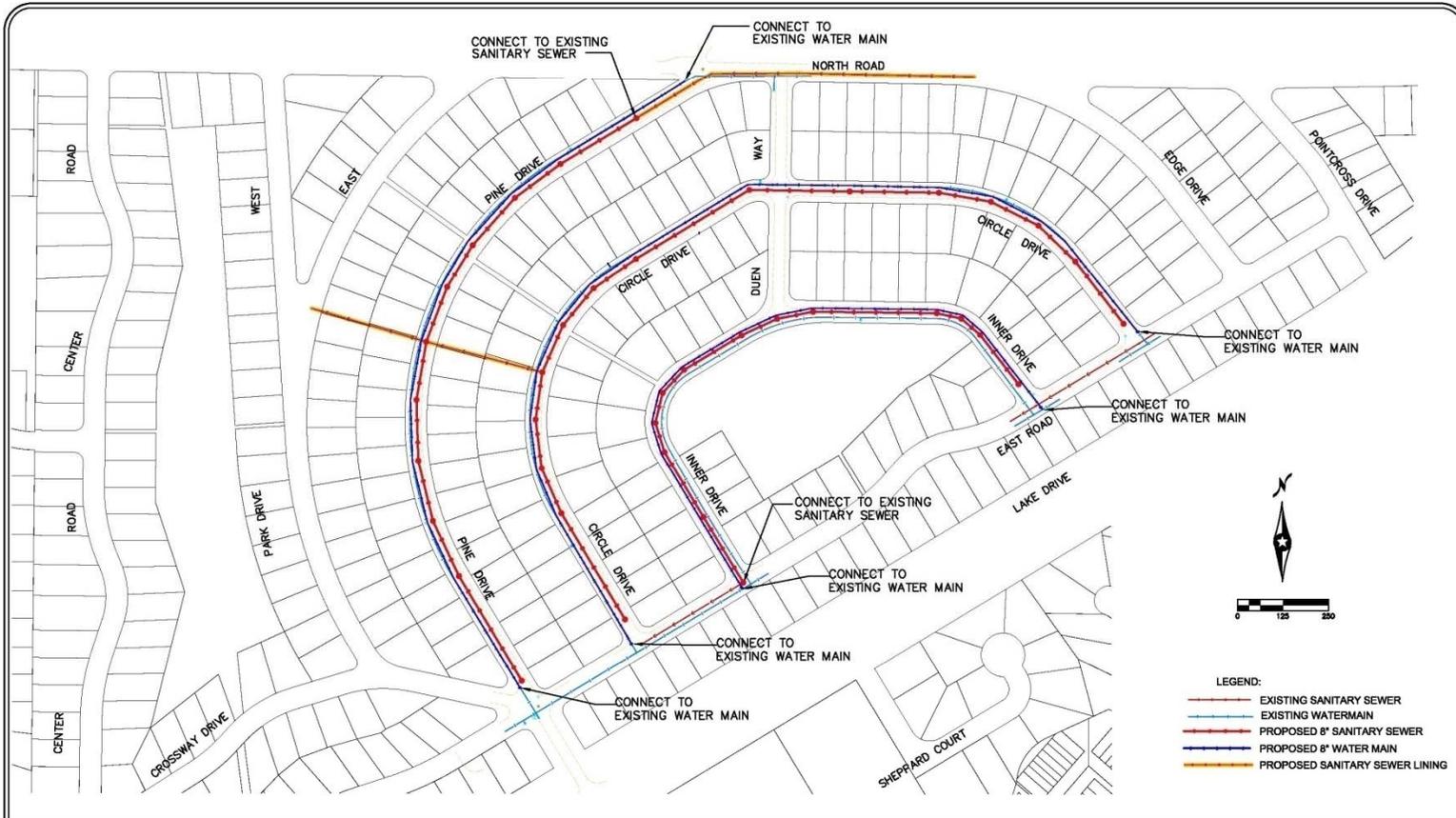
■ **Sanitary Sewer Replacement**

- ❖ 8" PVC sanitary sewer main
- ❖ 4" PVC sanitary sewer services replaced to the Right-of-Way
- ❖ Slip lining of approximately 1600' of sanitary sewer

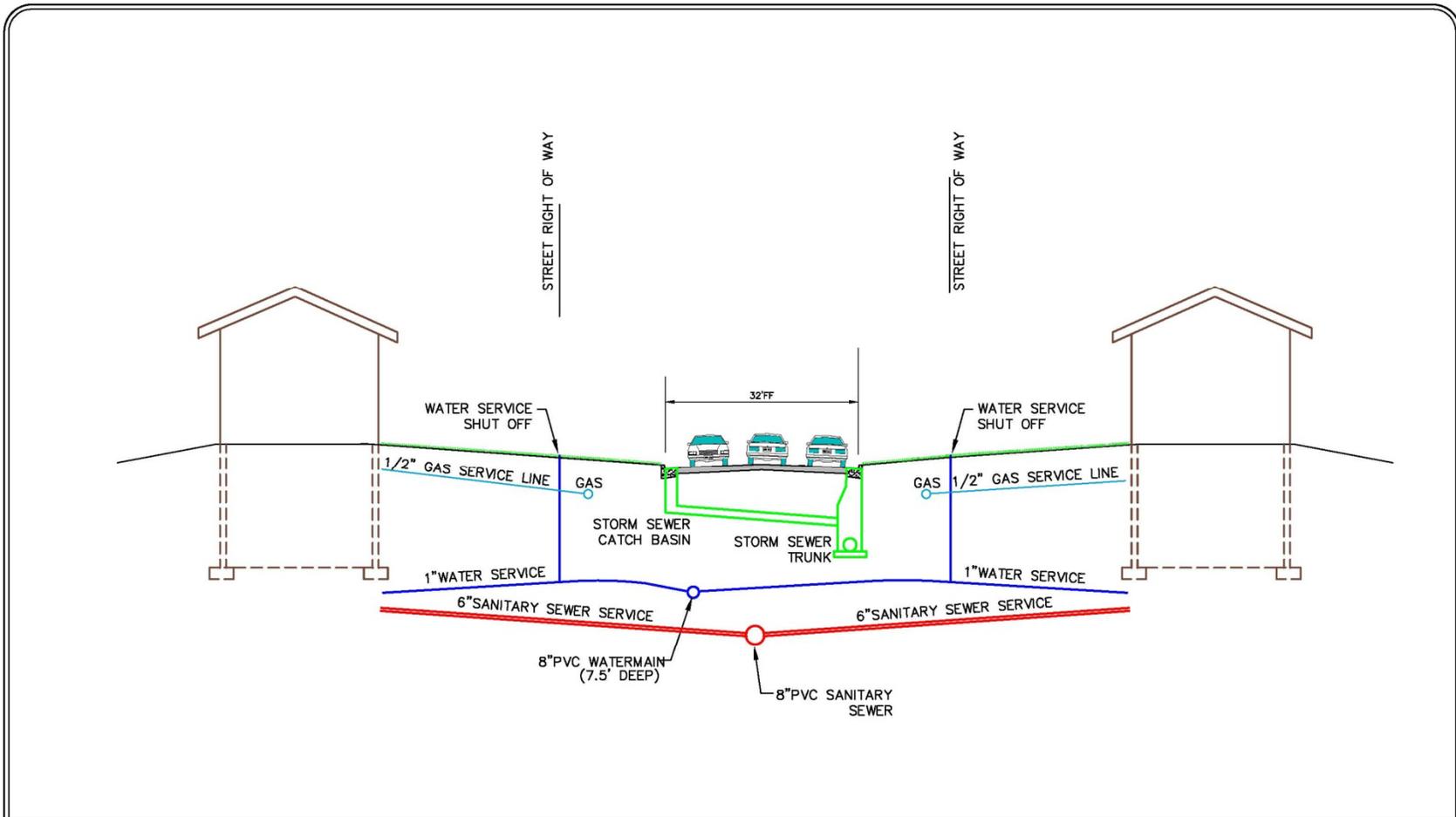
■ **Gas Main Replacement (by Centennial Utilities)**

- ❖ 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 construction

Proposed Improvements



Proposed Improvements



Inner Park

(resident comments)

- Additional parking stalls
- Pave gravel parking lot
- Lighting improvements



Project Costs

Summary of Cost

	Total
Street Improvements	\$1,768,600
Sanitary Sewer Improvements	\$778,100
Water Main Improvements	\$580,700
Storm Sewer Improvements	\$291,000
Total	\$3,418,400
Alternate – Storm Water Treatment	\$200,000
Total (Alt)	\$3,618,400

Assessment Policy and Funding

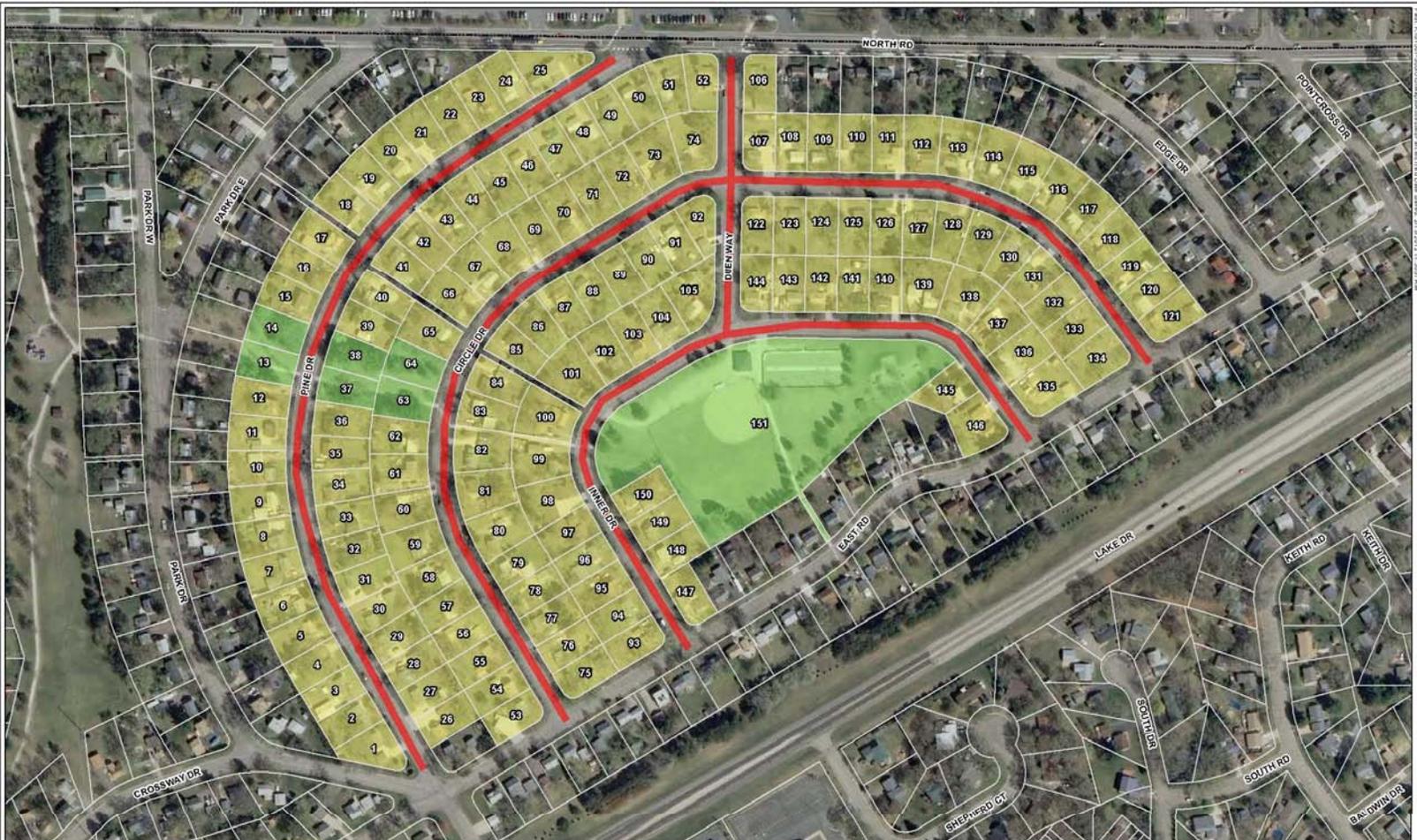
- Proposed Street Assessment: \$3,500 per unit
- City Funds Remaining Street Improvements
- City Funds 100% of Utility Improvements

Project Assessment

Total Street Improvement Cost	\$1,768,600
Total Assessable Units	165*
Assessment Rate	\$3,500
Total Assessment	\$577,500

* Includes six City-owned lots and 15 residential equivalent units for Inner Park

Assessable Units



Legend

- Street & Improvement Project Area
- Assessed Properties
- City Parcels

2012 Street and Utility Improvement Project
Assessed Properties
City of Circle Pines MN

1 inch = 200 feet



February 14, 2012
WSB Proj No 1507-50



Funding Scenario

Proposed Funding

Special Assessments	\$557,500
Street Reconstruction Fund	\$1,191,100
Sanitary Sewer Fund	\$778,100
Water Main Fund	\$580,700
Storm Water Fund	\$291,000 – \$491,000
Total Funding	\$3,418,400 – \$3,618,400

Proposed Schedule

- Public Informational Meeting February 2, 2012
- City Accepts Feasibility Study February 14, 2012
- Public Hearing/
Authorize Plans week of March 12, 2012
- City Approves Final Plans April 10, 2012
- Receive Bids May 10, 2012
- Award Contract May 22, 2012
- Begin Construction June 2012
- Substantial Completion October 2012
- Assessment Hearing October 2012
- Final Completion Spring 2013

Questions and Comments?

Retaining Walls



Inner Park



Parking



Trees



Infiltration Area

