

ROSEVILLE
REQUEST FOR COUNCIL ACTION

Date: 11/19/12
Item No.: 10.a

Department Approval

City Manager Approval

Item Description: Discuss 2013 Public Works Work Plan

BACKGROUND

Each year Public Works staff monitors and evaluates the condition of City infrastructure for development of ongoing maintenance and replacement needs plans. We use this information to develop capital improvement plans and in the development of the annual budget request in these areas. We also work closely with Ramsey County and MnDOT on improvements to City infrastructure as a part of their road improvement projects within Roseville. 2013 proposed road construction on city streets is mainly mill and overlay or replacement of pavement due to surface distress related to age of pavement since many streets were reconstructed 20 to 30 years ago. The following are improvements that we are recommending for the 2013 construction season on the city system. We have attached a map of the proposed improvement areas. (Attachment A) We also have a preliminary work plan for utility improvements that is somewhat dependent on funding levels to be determined by the final 2013 utility rates that will be set in the next month. Ramsey County has not finalized their total work program for 2013. They were anticipating a mill and overlay on Rice St. from just south of Co. Rd. B to Larpenteur Ave. but it may be delayed due to a planned gas transmission line replacement by Xcel Energy in that area. This work plan is consistent with the 20 year capital improvement plan.

POLICY OBJECTIVE

1. Pavement Management Program Projects: Each year the Public Works Department evaluates infrastructure needs based on the City's Pavement Management Program and assessment of utility infrastructure. Streets in marginal condition are recommended for major maintenance by mill and overlay. Streets in poor condition are recommended for reconstruction. We propose to include the following street segments in our 2013 construction contract:

Mill and Overlay	
Iona Lane (Dale St. to Western Avenue)	Dellwood Ave. (Roselawn Ave. to Co Rd B)
Grandview Ave (St. Albans St. to cul de sac)	Commerce St. (Snelling Service Dr. to Albert St.)
Lovell Ave (Grotto St to Dale St)	Fry St. (Skillman Ave. to Co Rd B)
Cope Ave (Grotto St to Dale St)	

The Mill and Overlay projects are proposed to be financed through our street infrastructure funds and MSA funds. After receiving bids for these projects, we will request that the City Council award the bid to the lowest responsible bidder.

Reconstruction: County Road D (Lexington Ave. to Victoria St.) jointly funded MSA project with the City of Shoreview.

29 **2. Sanitary Sewer lining and replacement, watermain replacement:** The majority of the
30 city's sanitary sewer mains were constructed in the late 1950's and early 1960's, utilizing
31 clay tile pipe. Over time the joint materials have failed allowing root intrusion. The pipe is
32 also susceptible to cracking and construction damage. The 2013 Capital Improvement Plan
33 recommends funding for a sanitary sewer main lining program to extend the life of our
34 sanitary sewers by 50 years or more. This technology essentially installs a new resin pipe
35 inside the old clay tile sewer main without digging up city streets, which results in minimal
36 disruption to residents during construction. The liner pipe is inserted into the main through
37 existing manholes and cured in place with a heat process. Any given segment is usually
38 completed in one working day. Service line connections are reopened using a robotic cutter
39 and remote cameras. During the process, existing flows are bypassed using pumps. This
40 technology has been proven over the past 20 years, and costs have become competitive with
41 open cut replacement. The City started doing this type of renovation on an annual basis in
42 2006 and will have an annual project for the foreseeable future to replace our aging sewer
43 infrastructure. This technology also prevents infiltration of groundwater into the system and
44 can be credited toward current and future inflow/ infiltration surcharge. The location of this
45 work varies and is spread throughout the City based on system priority.

46 We are also evaluating sanitary and storm sewer replacement needs in our pavement
47 replacement areas as well as utility infrastructure needs in County and State project areas.
48 Those replacements are being identified as the project plans are being developed and will be
49 communicated to the Council at a later date.

50 We are recommending replacement of the cast iron watermain as a part of the County Road
51 D reconstruction project which is under design jointly with the City of Shoreview. We are
52 also evaluating additional replacement of other mains. These watermains were installed in
53 the early 1960's and have experienced several breaks. This is the lowest cost opportunity to
54 replace this infrastructure.

55 **3. Storm Sewer system improvements:** An extreme rain event occurred this summer on July
56 16, 2011, that caused flooding in several areas of the City. Since the storm, staff has
57 completed several studies to analyze the existing drainage systems and localized flooding
58 issues. The studies also identified potential improvements throughout the neighborhoods that
59 would reduce the level of flooding. Staff is now working on developing a 2013 drainage
60 improvement project to alleviate some of these flooding concerns. The specific locations of
61 improvements are being identified as the project plans are being developed and will be
62 communicated to the Council at a later date.

63 **4. Seal Coat:** Pavement maintenance policies support an annual seal coat program of
64 approximately 14-15 miles of city streets each year. This consists of applying a thin film of
65 bituminous oil and covering it with fine aggregate. These treatments have proven to add a
66 minimum of 10 years to the life of the pavement.

67 **5. Pathways :** Staff is developing plans for a sidewalk project on County Road B-2 from
68 Lexington Ave. to Rice St. This project will be funded by the Park Renewal Bonds. Staff is
69 working closely with the Park Renewal Project Team on this project. This project is
70 anticipated to be completed by the end of Fall 2013.

71 **FINANCIAL IMPACTS**

72 Staff is developing preliminary cost estimates for the projects at this time. We anticipate the
73 total work plan cost to be in the \$3.5 to \$4 million dollar range. The Street Infrastructure Fund

74 interest earnings support the local street Mill and Overlay program. Due to current construction
75 costs this level of program may be in jeopardy for future years due to lower interest earnings.
76 MSA street overlays are proposed to be funded from the City's MSA account. The Co. Rd. D
77 reconstruction project is proposed to be funded with MSA funds and assessments. Utility
78 improvements are funded from the respective Utility enterprise funds. Staff has applied for
79 Clean Water grants for storm sewer improvements and Met Council State Bond funded grant for
80 sanitary sewer inflow and infiltration improvements to help offset city costs. We will know
81 whether the city is awarded grants later in December for those programs.

82 The sealcoat, crack sealing, and major patching are funded from the street maintenance budget.
83 This budget is supported by the general fund tax levy and MSA maintenance allocation. Staff
84 recommends funding a program consistent with our pavement maintenance policies. We expect
85 material costs to increase with the rise in oil industry related costs.

86 By taking action now, the Council will be authorizing staff to work on plans for the projects as
87 described. As project bids are opened, staff will bring individual contracts to the City Council
88 for approval. A detailed cost breakdown will be included with those Council Actions.

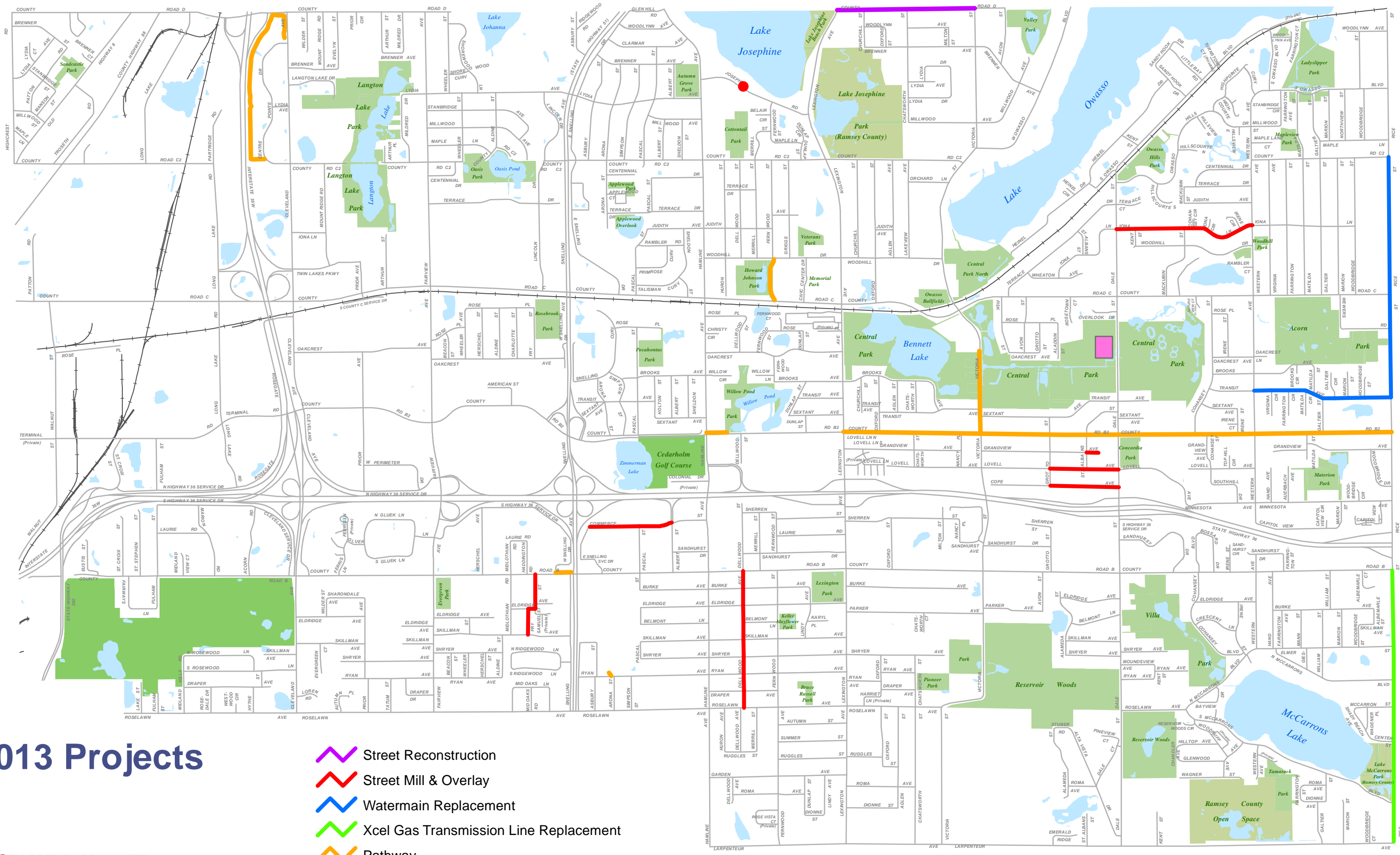
89 **STAFF RECOMMENDATION**

90 These improvements are recommended for construction in 2013. Additional utility
91 improvements may be identified at a later date and brought to the Council for authorization. All
92 projects will come back to the City Council for further action.







93 **REQUESTED COUNCIL ACTION**

94 Motion approving 2013 preliminary Public Works Work Plan.

Prepared by: Duane Schwartz
Attachments: A: Map



2013 Projects

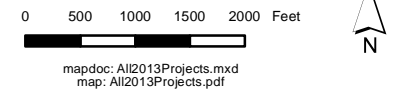
-  Street Reconstruction
-  Street Mill & Overlay
-  Watermain Replacement
-  Xcel Gas Transmission Line Replacement
-  Pathway
-  Parking Lot



Prepared by:
Engineering Department
November 15, 2012

Data Sources and Contacts:
 • Ramsey County GIS Base Map (10/29/12)
 • City of Roseville Engineering Department
 For further information regarding the contents of this map contact:
 City of Roseville, Engineering Department,
 2660 Civic Center Drive, Roseville MN

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