

ROSEVILLE
REQUEST FOR COUNCIL ACTION

Date: 11/14/11
Item No.: 10 . a

Department Approval



City Manager Approval



Item Description: 2012 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. 2012 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 2012 construction season on the city system. We also have a preliminary work plan as shown on the attached map for utility improvements that is somewhat dependent on funding levels to be determined by the final 2012 utility rates that will be decided in the next month. Ramsey County has not finalized their total work program for 2012 but are anticipating a major pavement replacement project on Co. Rd. B-2 from Snelling Ave. to Fairview Ave. and a mill and overlay on Rice St. from just south of Co. Rd. B to Larpenteur Ave. 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 2012 construction contract:

Mill and Overlay	
Belmont Ln W (Pascal Avenue to Hamline Avenue)	Pascal St N (County Road C2 to Cul-de-sac)
Burke Ave W (Pascal Avenue to Hamline Avenue)	Pascal St N (W. County Road B to Burke Avenue)
Eldridge Ave W (Pascal Ave to Hamline Ave)	Pascal St N (Eldridge Avenue to Belmont Avenue)
Eldridge Ave W (Cul-de-sac to Fairview Avenue)	Prior Cir (W. County Road D to Cul-de-sac)
Long Lake Rd (W. County Rd D to W. County Rd C2)	Skillman Ave W (Pascal Ave to Hamline Ave)
Lydia Ave W (Fairview Avenue to Snelling Avenue)	Snelling Service Dr W (Co Rd B to Roselawn Ave)
Partridge Rd (Cul-de-sac to W. County Road C2)	Snelling Service Dr W (Snelling Ave to Oakcrest Ave)

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.

2. **County Road C2:** At the October 17, 2011 meeting, the City Council approved the

28 construction of the connection of County Road C-2 between Hamline and Lexington. This
29 project is scheduled for construction in 2012. The project that staff is working on:

- 30 • Construct Road County Road C-2 connection between Griggs and Dunlap. To save some
31 of the trees in the right of way, staff is proposing to construct this street segment at a 28
32 foot width. No parking will be allowed in this segment.
- 33 • Construct a 6 foot wide concrete sidewalk along the north side of County Road C-2
34 between Hamline and Lexington.
- 35 • Provide parking bays on County Road C-2 between Hamline and Merrill. Currently,
36 parking is allowed on the north side of the street and not the south side of the street. Staff
37 proposes to move the north curb line 4 feet south to define on street parking bays and
38 narrow portions of the road. Specific locations will be identified on the preliminary
39 plans. No parking is allowed on streets narrower than 32 feet.
- 40 • Streetscape: Staff will look for streetscaping opportunities once the plans for the street
41 work are more fully developed.

42 The following work will be completed this fall.

- 43 • Survey- complete.
- 44 • Soil Borings- week of November 7
- 45 • All way stop signs installed at Merrill and County Road C-2- complete.

46 Over the coming months, staff will be developing preliminary plans. These plans will be
47 available for review and comment at a public Open House meeting in January 2012. County
48 Road C2 will be financed by MSA Funds and bid with the PMP projects

- 49 3. **Sanitary Sewer lining and replacement, watermain replacement:** The majority of the
50 city's sanitary sewer mains were constructed in the late 1950's and early 1960's, utilizing
51 clay tile pipe. Over time the joint materials have failed allowing root intrusion. The pipe is
52 also susceptible to cracking and construction damage. The 2011 Capital Improvement Plan
53 recommends funding for a sanitary sewer main lining program to extend the life of our
54 sanitary sewers by 50 years or more. This technology essentially installs a new resin pipe
55 inside the old clay tile sewer main without digging up city streets, which results in minimal
56 disruption to residents during construction. The liner pipe is inserted into the main through
57 existing manholes and cured in place with a heat process. Any given segment is usually
58 completed in one working day. Service line connections are reopened using a robotic cutter
59 and remote cameras. During the process, existing flows are bypassed using pumps. This
60 technology has been proven over the past 20 years, and costs have become competitive with
61 open cut replacement. The City started doing this type of renovation on an annual basis in
62 2006 and will have an annual project for the foreseeable future to replace our aging sewer
63 infrastructure. This technology also prevents infiltration of groundwater into the system and
64 can be credited toward current and future inflow/ infiltration surcharge. The location of this
65 work varies and is spread throughout the City based on system priority.

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

70 We are recommending replacement of the cast iron watermain as a part of the Rice Street
71 next phase reconstruction project and a segment of main on County Road B-2. We also
72 recommend replacement on two segments of city streets. These watermains were installed in
73 the early 1960's and has experienced several breaks. This is the lowest cost opportunity to

74 replace this infrastructure.

- 75 **4. Storm Sewer system improvements:** An extreme rain event occurred this summer on July
76 16, 2011, that caused flooding in several areas of the City. Since the storm, staff has
77 completed several studies to analyze the existing drainage systems and localized flooding
78 issues. The studies also identified potential improvements throughout the neighborhoods that
79 would reduce the level of flooding. Staff is now working on developing a 2012 drainage
80 improvement project to alleviate some of these flooding concerns. The specific locations of
81 improvements are being identified as the project plans are being developed and will be
82 communicated to the Council at a later date.
- 83 **5. Seal Coat:** Pavement maintenance policies support an annual seal coat program of
84 approximately 14-15 miles of city streets each year. This consists of applying a thin film of
85 bituminous oil and covering it with fine aggregate. These treatments have proven to add a
86 minimum of 10 years to the life of the pavement. With potential continued budgetary
87 constraints in 2012, we may need to reduce the size of the program depending on the bid
88 prices received in February 2012 for materials. Asphalt material prices continue to be
89 volatile. It is expected that these prices will continue to rise.
- 90 **6. Pathways :** Work will continue on the federally funded pathway along Fairview Ave. from
91 the Rosedale area to the St. Paul campus of the University of Minnesota. This project is
92 anticipated to be completed by the end of summer 2012.

93 **FINANCIAL IMPACTS**

94 The Street Infrastructure Fund interest earnings support the local street Mill and Overlay
95 program. Due to current construction costs this level of program may be in jeopardy for future
96 years due to lower interest earnings. MSA street overlays are proposed to be funded from the
97 City's MSA account. Utility improvements are funded from the respective Utility enterprise
98 funds.

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

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

106 **STAFF RECOMMENDATION**

107 The following improvements are recommended for construction in 2012. Additional utility
108 improvements may be identified at a later date and brought to the Council for authorization.

Location	Funding Source	Cost Estimate
Mill and Overlay Projects		
Belmont Ln W (Pascal Avenue to Hamline Avenue)	Infrastructure Fund	\$68,800
Burke Ave W (Pascal Avenue to Hamline Avenue)	Infrastructure Fund	\$67,800
Eldridge Ave W (Pascal Avenue to Hamline Avenue)	Infrastructure Fund	\$67,800
Eldridge Ave W (Cul-de-sac to Fairview Avenue)	Infrastructure Fund	\$30,900
Long Lake Rd (W. County Rd D to W. County Rd C2)	MSA Funds	\$231,600
Lydia Ave W (Fairview Avenue to Snelling Avenue)	MSA Funds	\$174,100
Partridge Rd (Cul-de-sac to W. County Road C2)	Infrastructure Fund	\$31,000
Pascal St N (County Road C2 to Cul-de-sac)	Infrastructure Fund	\$8,200
Pascal St N (W. County Road B to Burke Avenue)	Infrastructure Fund	\$15,800

Pascal St N (Eldridge Avenue to Belmont Avenue)	Infrastructure Fund	\$15,200
Prior Cir (W. County Road D to Cul-de-sac)	Infrastructure Fund	\$14,900
Skillman Ave W (Pascal Ave to Hamline Ave)	Infrastructure Fund	\$67,800
Snelling Service Dr W (Co Rd B to Roselawn Ave)	Infrastructure Fund	\$120,000
Snelling Service Dr W (Snelling Ave to Oakcrest Ave)	Infrastructure Fund	\$11,800
Subtotal		\$925,700

109

Reconstruction/ Sidewalk Project

County Road C2 W (Hamline Ave to Lexington Ave)	MSA Funds	\$329,000
Subtotal		\$329,000

Utility Work

Sanitary Sewer lining/replacement	Sanitary Sewer Fund	\$450,000
Watermain Replacement	Water Fund	\$400,000
Storm Sewer system improvements	Storm Water Fund	\$300,000
Subtotal		\$1,150,000

Major Street Maintenance

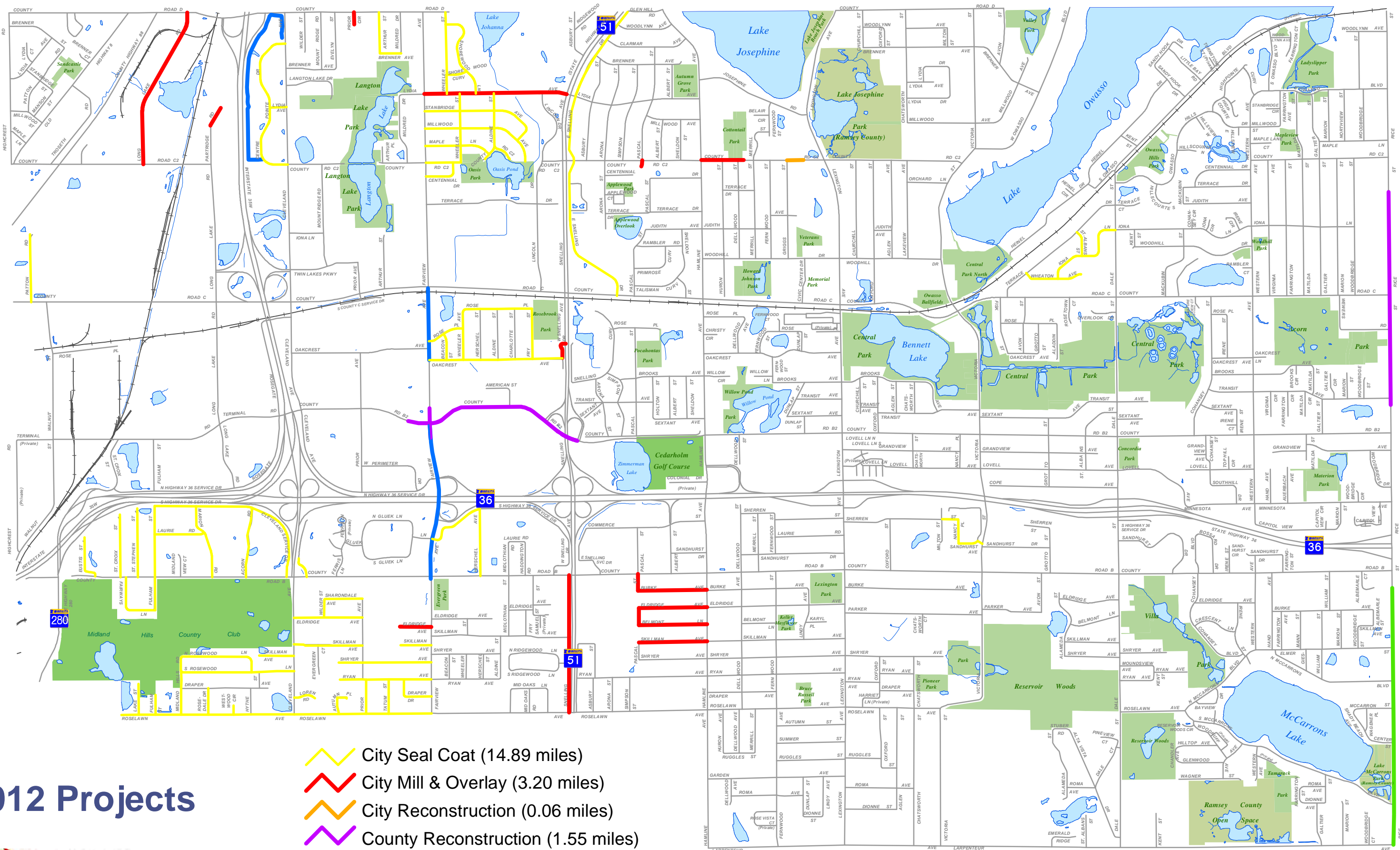
Sealcoat, Crackseal	Street Maintenance Budget	\$250,000
Subtotal		\$250,000






Total Estimated 2012 Project Cost	\$2,654,700
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110 **REQUESTED COUNCIL ACTION**

111 Motion approving 2012 Public Works Work Plan.

Prepared by: Duane Schwartz and Deb Bloom
 Attachments: A: 2012 Project Location Map
 B: 2012 Utility Projects Map



-  City Seal Coat (14.89 miles)
-  City Mill & Overlay (3.20 miles)
-  City Reconstruction (0.06 miles)
-  County Reconstruction (1.55 miles)
-  County Mill & Overlay (0.93 miles)
-  City Pathway

2012 Projects



Prepared by:
Engineering Department
October 19, 2011

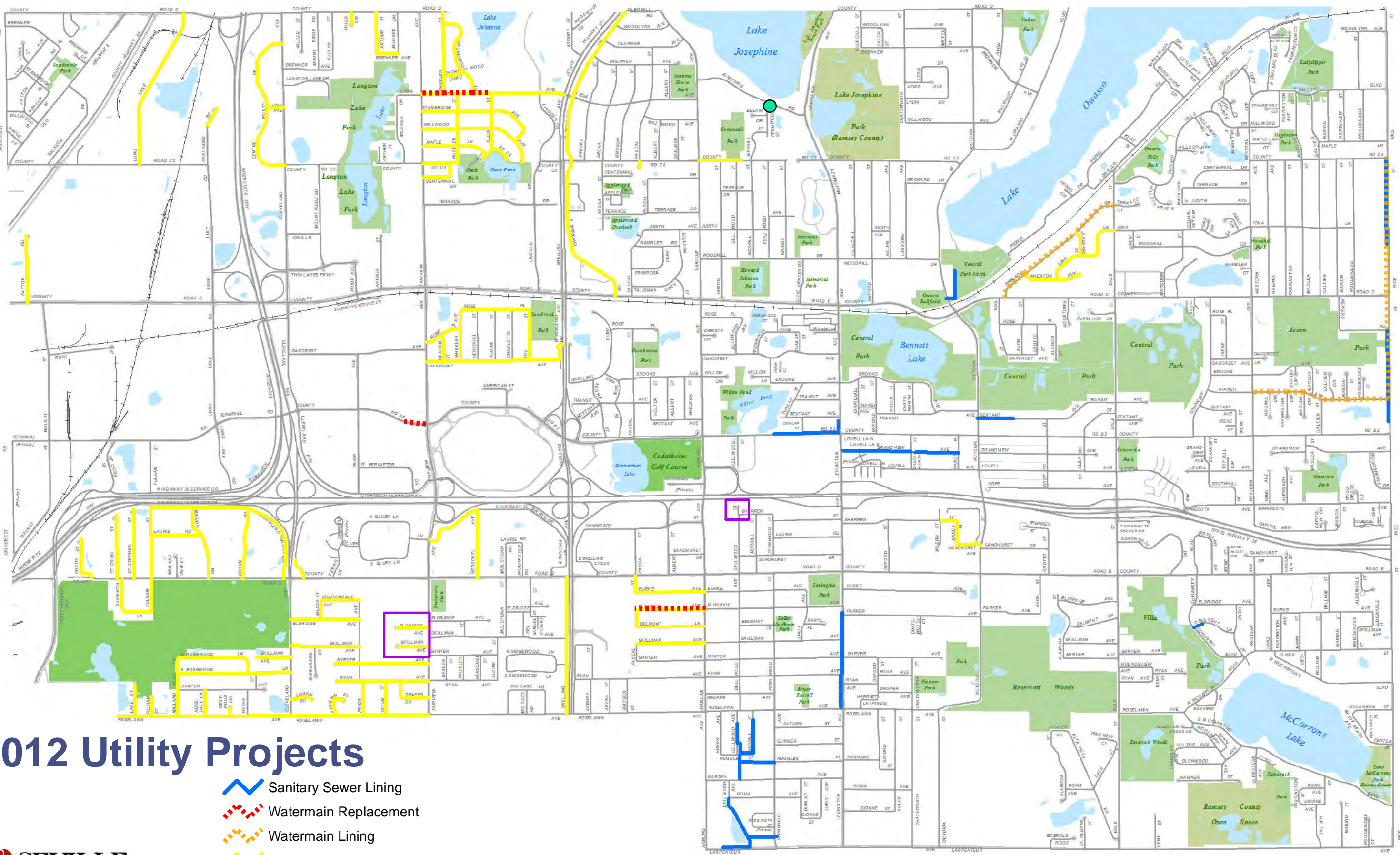
Data Sources and Contacts:
 * Ramsey County GIS Base Map (8/01/11)
 * City of Roseville Engineering Department
 For further information regarding the contents of this map contact:
 City of Roseville, Engineering Department,
 2660 Civic Center Drive, Roseville MN

DISCLAIMER:
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0 500 1000 1500 2000 Feet

mapdoc: 2012Projects.mxd
map: 2012Projects.pdf





2012 Utility Projects

-  Sanitary Sewer Lining
-  Watermain Replacement
-  Watermain Lining
-  Regular Maintenance Work (Seal Coat and Mill & Overlay Segments)
-  Storm Sewer System Improvements
-  Sanitary Lift Station Improvement



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