

Agenda

City of Plymouth Special City Council Meeting

**Tuesday, November 28, 2006
5:30 p.m.**

Medicine Lake Room

1. Call to Order
2. Discuss Fernbrook Lane and street reconstruction CIP projects (1013)
3. Adjourn

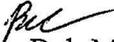
MEMO

CITY OF PLYMOUTH

**3400 Plymouth Boulevard
Plymouth, MN 55447**

DATE: November 22, 2006

TO: Laurie Ahrens, City Manager thru
Doran Cote, Director of Public Works

FROM:  Bob Moberg, P.E., City Engineer

SUBJECT: FERNBROOK LANE RECONSTRUCTION
SUMMARY OF ESTIMATED PROJECT COSTS
CITY PROJECT 1013

City staff has been working with the engineering consultant to develop a current summary of estimated project costs. The summary has been prepared as project design is being completed and as negotiations for right-of-way acquisition is underway.

Estimated project costs are summarized as follows:

Construction	\$4,900,000
Engineering	\$545,300
Right-of-Way Acquisition	\$838,700
Total	\$6,284,000

In the 2006 CIP, a total project budget of \$4,500,000 was identified. This budget was based on an estimate provided in 2003 (copy attached) and included approximately \$600,000 for right-of-way acquisition and \$100,000 for design engineering. Once the project was approved for federal funding, the parameters for right-of-way acquisition and design engineering were modified to comply with federal requirements, resulting in an increase in costs.

Although the City's intent has always been to reconstruct Fernbrook Lane from 34th Avenue to 27th Avenue, the scope of work identified in the original application for federal funding was for reconstruction of Fernbrook Lane from TH 55 to 27th Avenue. The application was framed to include the work that would score most favorably with Mn/DOT's review committee. At the time the application for federal funding was submitted (October 2003), the estimated total project cost was \$2,500,000. Since the time the application was submitted, the construction industry has experienced a significant increase in costs. Unfortunately, the current federal process does not allow for inclusion of inflationary costs in the funding applications.

SRF CONSULTING GROUP INC.
PRELIMINARY ESTIMATE OF CONSTRUCTION COSTS
 FERNBROOK LANE - 27TH AVE. TO 34TH AVE.
 CITY PROJECT NO. 1013
 PLYMOUTH, MN
 Up Dated 10-14-08 MDH

SRF #4169.2

2003

2007

ITEM NO	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
2021.501	MOBILIZATION	1	L.S.	\$35,000.00	\$ 35,000
2104.501	REMOVE CURB AND GUTTER	10825	LIN FT	\$2.00	\$ 21,650
2104.503	REMOVE RETAINING WALL	1000	SQ FT	\$8.00	\$ 8,000
2104.505	REMOVE BITUMINOUS SIDEWALK	2650	SQ YD	\$2.00	\$ 5,300
2104.505	REMOVE CONCRETE MEDIAN	680	SQ YD	\$7.00	\$ 4,760
2104.505	REMOVE BITUMINOUS PAVEMENT	10940	SQ YD	\$2.00	\$ 21,880
2104.511	SAWCUT BITUMINOUS PAVEMENT	175	LIN FT	\$2.00	\$ 350
2105.501	COMMON EXCAVATION	16385	CU YD	\$5.00	\$ 81,925
2105.521	SELECT GRANULAR BORROW	7710	CU YD	\$12.00	\$ 92,520
2211.503	CLASS 5 AGGREGATE BASE	8415	CU YD	\$18.00	\$ 151,470
2331.508	TYPE 41 WEARING COURSE	4200	TON	\$42.00	\$ 176,400
2331.510	TYPE 31 BINDER COURSE	1910	TON	\$41.00	\$ 78,310
2331.514	TYPE 31 BASE COURSE	5725	TON	\$40.00	\$ 229,000
2232.501	MILL BITUMINOUS SURFACE (2")	20800	SQ YD	\$1.75	\$ 36,400
2357.502	BIT. MATERIAL FOR TACK COAT	3354	GAL	\$1.50	\$ 5,031
2521.511	3" BITUMINOUS WALK	33720	SQ FT	\$1.50	\$ 50,580
2531.501	CONCRETE CURB AND GUTTER - B618	10415	LIN FT	\$8.00	\$ 83,320
2531.503	CONCRETE MEDIAN	1770	SQ YD	\$25.00	\$ 44,250
	STORM SEWER	1	L. S.	\$100,000.00	\$ 100,000
2563.601	TRAFFIC CONTROL	1	L. S.	\$20,000.00	\$ 20,000
2564.603	24" SOLID SINGLE WHITE STRIPE	490	LIN FT	\$4.00	\$ 1,960
2564.603	4" SOLID SINGLE WHITE STRIPE	4800	LIN FT	\$0.50	\$ 2,400
2564.603	4" BROKEN SINGLE WHITE STRIPE	8030	LIN FT	\$0.50	\$ 4,015
2564.603	4" SOLID SINGLE YELLOW STRIPE	2620	LIN FT	\$0.50	\$ 1,310
2564.603	4" BROKEN SINGLE YELLOW STRIPE	2050	LIN FT	\$0.50	\$ 1,025
2564.603	12" SOLID SINGLE YELLOW STRIPE	655	LIN FT	\$2.00	\$ 1,310
2564.531	PERMANENT SIGNING	1	L. S.	\$10,000.00	\$ 10,000
2575.605	SOD WITH 4" TOPSOIL	15000	SQ YD	\$2.50	\$ 37,500
2411.603	MODULAR BLOCK RET. WALL SYSTEM	1075	SQ FT	\$20.00	\$ 21,500
2565.522	MODIFY EXISTING SIGNAL SYSTEM	1	EACH	\$75,000.00	\$ 75,000
	SUBTOTAL - STREETS				\$ 1,402,166
	26.8% ENGINEERING ADMIN., INSPEC., & CONTINGENCIES				\$ 375,780
	TOTAL STREETS				\$ 1,777,946
2565.511	INSTALL FULLY ACTUATED SIGNALS	3	EACH	\$170,000.00	\$ 510,000
2565.601	TRAFFIC CONTROL INTERCONNECTIOI	1	L. S.	\$50,000.00	\$ 50,000
	SUBTOTAL - SIGNALS				\$ 560,000
	26.8% ENGINEERING ADMIN., INSPEC., & CONTINGENCIES				\$ 150,080
	TOTAL SIGNALS				\$ 710,080
	TOTAL PROJECT COST				\$ 2,488,026

1,700,000
 460,000
 2,160,000
 800,000
 220,000
 1,020,000
 3,180,000

R/w est. \$600,000

MEMO

CITY OF PLYMOUTH

3400 PLYMOUTH BOULEVARD, PLYMOUTH, MN 55447

DATE: November 22, 2006

TO: Laurie Ahrens, City Manager and Jean McGann, Administrative Services Director

FROM: Mike Kohn, Financial Analyst

SUBJECT: Fernbrook Lane Project – MSA Fund Impact

The attached information models the revised costs for the Fernbrook Lane project in the context of the City's funding source. This funding source is the MSA Fund. Given the current level of funding from the state, and the projects proposed in the CIP for 2007-2011, the MSA Fund maintains a negative balance.

This negative balance will likely be reduced somewhat by the additional funding that should come from the State as part of the MVST Amendment. One estimate that I have seen, but not corroborated, states that Plymouth should get an additional \$575,686 between 2008 and 2011.

Capital Improvement Plan
City of Plymouth, Minnesota

2007 thru 2011

Contact
Department Street Projects
Type Improvement/Acquisition
Useful Life
Category Unassigned
Priority n/a

Project # 06-ST-001
Project Name Fernbrook Lane Reconstruction (27th to 34th Ave.)

Project # 1013

Total Project Cost \$6,284,000

Description

This project involves the reconstruction of Fernbrook Lane from 27th Avenue to 34th Avenue. The installation of traffic signals on Fernbrook Lane at 27th Avenue and Harbor Lane are required, as well as geometric changes and modifications to the TH 55 signal. The project also includes replacing watermain from 34th Avenue to the northerly project limits. Design and right-of-way acquisition in 2006 and construction in 2007.

The watermain north of 34th Avenue is cast iron main that has experienced several breaks. Staff believes it would be best to replace the water main as part of the street improvement rather than have to go back and tear up the new street later.

Justification

Traffic along this section of Fernbrook Lane has been increasing for many years. Improvements will be needed to maintain traffic flow and improve safety. Previous study has shown that significant improvement to safety could be made. In addition the roadway condition is deteriorating and will need significant work in the near future. Applications have been submitted for State and Federal funding. This project is dependent on acquiring outside funding.

The City's water infrastructure is aging and must be replaced when cost-effective. The most cost-effective time is when streets are being improved. Staff reviews each roadway improvement to determine the condition of the underlying water main. If the main is in poor condition and cannot be reasonably expected to last for the life of the new street surface it should be replaced.

Prior	Expenditures	2007	2008	2009	2010	2011	Total
400,000	Planning/Design	145,300					145,300
	Land Acquisition	838,700					838,700
Total	Construction/Maintenance	4,900,000					4,900,000
	Total	5,884,000					5,884,000

Prior	Funding Sources	2007	2008	2009	2010	2011	Total
400,000	Federal Funding	1,575,000					1,575,000
	Municipal State Aid Fund	4,159,000					4,159,000
Total	Water Fund	150,000					150,000
	Total	5,884,000					5,884,000

Operational Impact/Other

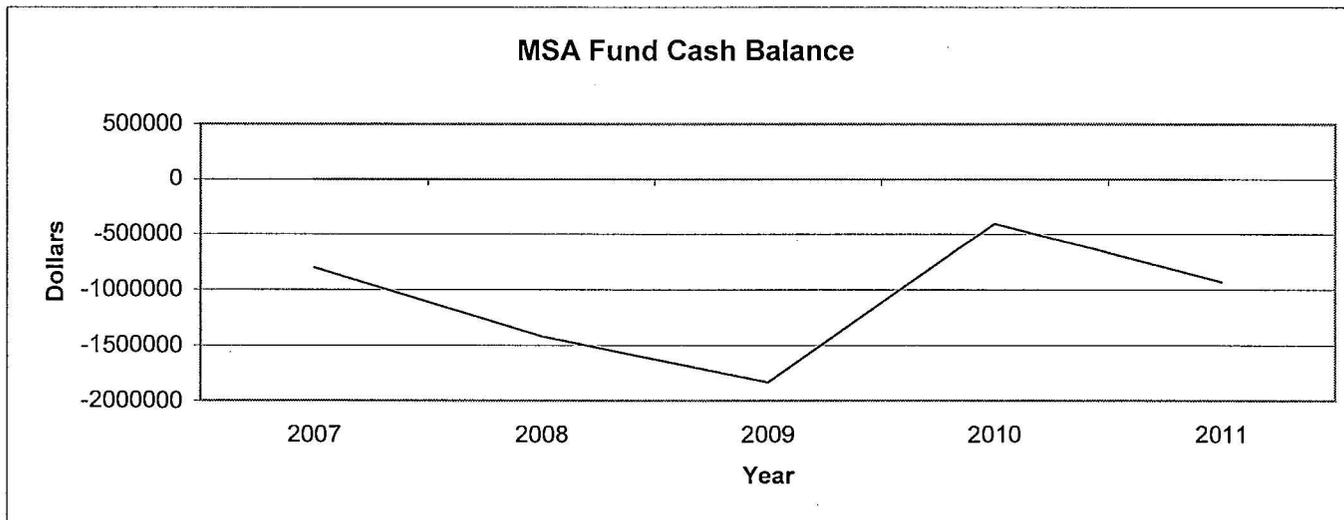
The reconstruction of Fernbrook Lane will initially decrease operating costs for this roadway, but the overall operating cost of the system will not decrease since other roads on the system continue to age. The impact on operating costs should be minimal except for signal maintenance and energy costs. It costs about \$200 per year in energy costs to operate a traffic signal with LED lights.

Source	Project#	Priority	2007	2008	2009	2010	2011	Total
Insurance								
Timber Shores Playground Replacement	07-PK-012	0	40,000					40,000
Insurance Total			40,000					40,000
Minnehaha Creek Watershed								
Mooney Lake Permanent Emergency Outlet	08-WR-001	0	125,000					125,000
Minnehaha Creek Watershed Total			125,000					125,000
Municipal State Aid Fund								
Fernbrook Lane Reconstruction (27th to 34th Ave.)	06-ST-001	0	4,159,000					4,159,000
Temporary Signal at CR 47 and Vicksburg Lane	06-ST-010A	0	145,000					145,000
CR 101 - CR 6 to CR 24	07-ST-004	0		1,300,000	1,300,000			2,600,000
CR 24 - 30th Avenue to CR 101	07-ST-005	0		500,000				500,000
Street Reconstruction - 36th Ave.	07-ST-007	0		240,000	90,000			330,000
Cheshire Lane - Glacier Vista to CR 47	08-ST-003	0			0			0
Traffic Signals at Three Intersections	08-ST-005	0		350,000		350,000	300,000	1,000,000
Vicksburg Ln Recon (Old Rockford - Schmidt Lk)	09-ST-005	0			800,000			800,000
Vicksburg Lane Reconstruction, Widening and Bridge	11-ST-005	0					2,000,000	2,000,000
Municipal State Aid Fund Total			4,304,000	2,390,000	2,190,000	350,000	2,300,000	11,534,000
National Transit Database								
National Transit Database Projects	08-TR-001	0		200,000	200,000	200,000	200,000	800,000
National Transit Database Total				200,000	200,000	200,000	200,000	800,000
Park Dedication Fund								
New Trails	07-PK-001	0	75,000	75,000	100,000	110,000	110,000	470,000
Transfer to Park Replacement Fund	07-PK-002	0	50,000	50,000	75,000	75,000	75,000	325,000
Land Acquisition	07-PK-003	0	1,000,000	250,000		250,000		1,500,000
Electronic Sign	07-PK-010	0	25,000					25,000
Greenwood Park Building	07-PK-011	0	30,000					30,000
Trail Crossing - Cheshire Lane	07-PK-013	0			250,000			250,000
Seven Greens Neighborhood Park	07-PK-014	0	300,000					300,000
East Side Skate Park	07-PK-015	0			350,000			350,000
Trail Signs	07-PK-016	0		20,000				20,000
Garden Improvements - Plymouth Creek	07-PK-017	0	35,000					35,000
Archery Range Safety Improvements	07-PK-018	0	20,000					20,000
Taryn Hills Neighborhood Park	08-PK-007	0		150,000				150,000
Park Dedication Fund Total			1,535,000	545,000	775,000	435,000	185,000	3,475,000
Park Replacement Fund								
Trail/Parking Lot Repair	07-PK-004	0	75,000	90,000	90,000	90,000	90,000	435,000
Replace Irrigation System	07-PK-005	0	70,000	135,000	140,000	135,000	145,000	625,000
Replace Playground @ Bass Lake	07-PK-006	0	80,000					80,000
Replace Parker's Lake Parking Lot Lights	07-PK-007	0	75,000					75,000
Park Signage	07-PK-009	0	10,000	10,000				20,000
Timber Shores Playground Replacement	07-PK-012	0	65,000					65,000
Repair Basketball Courts - Elm Creek	07-PK-020	0	20,000					20,000

City of Plymouth 2007-2011 Capital Improvements Program

MSA Fund

Year	Beginning Cash Balance	Non-Interest Revenues	Note Payment (*) Internal Borrowing	Capital Expenditures	Interest	Ending Cash Balance	Balance At State
2007	700,000	3,045,000	244,562	4,304,000	0	-803,562	-1,259,000
2008	-803,562	2,020,000	244,562	2,390,000	0	-1,418,124	-1,629,000
2009	-1,418,124	2,020,000	244,562	2,190,000	0	-1,832,686	-1,799,000
2010	-1,832,686	2,020,000	244,562	350,000	0	-407,248	-129,000
2011	-407,248	2,020,000	244,562	2,300,000	0	-931,810	-409,000



(*) An internal borrowing was set up to provide funding for the Cheshire Lane project in 2001. The note will be paid off in 2011.