



CITY of NOVI CITY COUNCIL

**Agenda Item E
April 19, 2010**

SUBJECT: Approval to award an amendment to the engineering services contract for construction engineering services related to the 2010 Roadway Capital Preventative Maintenance Program, to Orchard, Hiltz & McCliment, Inc. (OHM), for a not-to-exceed fee of \$40,697.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division *BTC*

CITY MANAGER APPROVAL: *DM*

EXPENDITURE REQUIRED	\$20,052 - Local Road CPM \$20,645 - Major Road CPM \$40,697 TOTAL
AMOUNT BUDGETED	\$281,250 (Local Road CPM) \$218,750 (Major Road CPM) \$500,000 TOTAL
LINE ITEM NUMBER	203-203.00-866.500 Local Road CPM 202-202.00-866.500 Major Road CPM

BACKGROUND INFORMATION:

The proposed 2010 Roadway Capital Preventative Maintenance Program includes the repair of five residential road segments (Local Road CPM) and three City arterial road segments (Major Road CPM). This project includes multiple CPM treatment methods which were determined during the design process based on our asset management approach, and designed to extend the life of the City's roads in the most cost-effective manner.

The construction phase engineering fees are determined using two components: 1) the contract administration fee, which is determined using the fee percentage in Exhibit B of the Agreement For Professional Engineering Services for Public Projects, and 2) the construction inspection fee determined using a cost per inspection (crew) day from Exhibit B of the consultant's agreement that is then multiplied by the number of days of inspection specified by the contractor. The construction phase fees for this project include a contract administration fee of \$18,557 (5.0% of \$371,138.70 construction bid) and an inspection fee of \$22,140 (\$615 per crew day, multiplied by the 36 days provided in the contractor's bid) for a total not-to-exceed fee of \$40,697.

The construction contract award is also being considered elsewhere on this agenda. Construction is scheduled to begin in May 2010 and completion is anticipated by July 2010.

RECOMMENDED ACTION: Approval to award an amendment to the engineering services contract for construction engineering services related to the 2010 Roadway Capital Preventative Maintenance Program, to Orchard, Hiltz & McCliment, Inc. (OHM), for a not-to-exceed fee of \$40,697.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Crawford				
Council Member Fischer				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

**EXHIBIT B
ENGINEERING FEES BY CONSTRUCTION VALUE AND TYPE OF PROJECT**

COST OF CONSTRUCTION From To		ROAD CONSTRUCTION			ROAD REHABILITATION			SIDEWALKS & PATHWAYS		
		Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)
\$ -	\$ 50,000	11.50%	8.00%	\$615.00	10.00%	6.00%	\$615.00	13.00%	8.00%	\$615.00
\$ 50,001	\$ 75,000	11.00%	7.50%	\$615.00	9.50%	6.00%	\$615.00	12.50%	7.50%	\$615.00
\$ 75,001	\$ 100,000	10.75%	7.50%	\$615.00	9.25%	6.00%	\$615.00	12.00%	7.50%	\$615.00
\$ 100,001	\$ 125,000	10.30%	7.00%	\$615.00	8.80%	5.50%	\$615.00	11.70%	7.00%	\$615.00
\$ 125,001	\$ 150,000	10.15%	7.00%	\$615.00	8.65%	5.50%	\$615.00	11.20%	7.00%	\$615.00
\$ 150,001	\$ 200,000	9.75%	7.00%	\$615.00	8.25%	5.50%	\$615.00	10.70%	7.00%	\$615.00
\$ 200,001	\$ 300,000	9.30%	7.00%	\$615.00	7.80%	5.00%	\$615.00	10.00%	6.50%	\$615.00
\$ 300,001	\$ 400,000	8.90%	7.00%	\$615.00	7.40%	5.00%	\$615.00	9.40%	6.50%	\$615.00
\$ 400,001	\$ 500,000	8.50%	6.50%	\$615.00	7.00%	4.50%	\$615.00	8.90%	6.50%	\$615.00
\$ 500,001	\$ 750,000	7.75%	6.40%	\$615.00	6.25%	4.00%	\$615.00	8.20%	6.00%	\$615.00
\$ 750,001	\$ 1,000,000	7.10%	6.00%	\$615.00	5.60%	3.25%	\$615.00	7.90%	5.50%	\$615.00
\$ 1,000,001	\$ 2,000,000	6.35%	5.30%	\$615.00	4.85%	2.50%	\$615.00	7.50%	5.00%	\$615.00
\$ 2,000,001	\$ 3,000,000	6.00%	4.50%	\$615.00	4.50%	2.25%	\$615.00	7.10%	4.50%	\$615.00
\$ 3,000,001	\$ 5,000,000	5.78%	4.10%	\$615.00	4.28%	2.00%	\$615.00	6.90%	4.00%	\$615.00
\$ 5,000,001	\$ 7,500,000	5.60%	3.80%	\$615.00	4.10%	2.00%	\$615.00	6.70%	3.50%	\$615.00

COST OF CONSTRUCTION From To		WATER MAIN CONSTRUCTION			SANITARY/STORM SEWER CONSTRUCTION			SANITARY LIFT STATION UPGRADES		
		Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)
\$ -	\$ 50,000	11.00%	8.00%	\$615.00	11.50%	8.00%	\$615.00	20.00%	9.00%	\$615.00
\$ 50,001	\$ 75,000	10.50%	7.50%	\$615.00	11.00%	7.50%	\$615.00	17.00%	8.45%	\$615.00
\$ 75,001	\$ 100,000	10.00%	7.50%	\$615.00	10.50%	7.50%	\$615.00	14.75%	8.10%	\$615.00
\$ 100,001	\$ 125,000	9.50%	7.00%	\$615.00	10.50%	7.00%	\$615.00	12.80%	7.50%	\$615.00
\$ 125,001	\$ 150,000	9.00%	7.00%	\$615.00	10.00%	7.00%	\$615.00	11.40%	7.30%	\$615.00
\$ 150,001	\$ 200,000	8.40%	7.00%	\$615.00	9.50%	7.00%	\$615.00	10.50%	7.20%	\$615.00
\$ 200,001	\$ 300,000	8.00%	6.50%	\$615.00	9.50%	6.50%	\$615.00	9.80%	6.85%	\$615.00
\$ 300,001	\$ 400,000	7.40%	6.50%	\$615.00	9.50%	6.50%	\$615.00	9.20%	6.75%	\$615.00
\$ 400,001	\$ 500,000	7.25%	6.50%	\$615.00	9.00%	6.50%	\$615.00	8.70%	6.55%	\$615.00
\$ 500,001	\$ 750,000	6.90%	6.00%	\$615.00	9.00%	6.00%	\$615.00	8.10%	6.20%	\$615.00
\$ 750,001	\$ 1,000,000	6.50%	5.50%	\$615.00	8.50%	5.50%	\$615.00	7.80%	5.80%	\$615.00
\$ 1,000,001	\$ 2,000,000	6.30%	5.00%	\$615.00	8.00%	5.00%	\$615.00	7.30%	5.15%	\$615.00
\$ 2,000,001	\$ 3,000,000	6.10%	4.50%	\$615.00	7.50%	4.50%	\$615.00	6.90%	4.50%	\$615.00
\$ 3,000,001	\$ 5,000,000	6.00%	4.00%	\$615.00	7.00%	4.00%	\$615.00	6.70%	4.05%	\$615.00
\$ 5,000,001	\$ 7,500,000	5.90%	3.50%	\$615.00	6.50%	3.50%	\$615.00	6.50%	3.65%	\$615.00

City of Novi

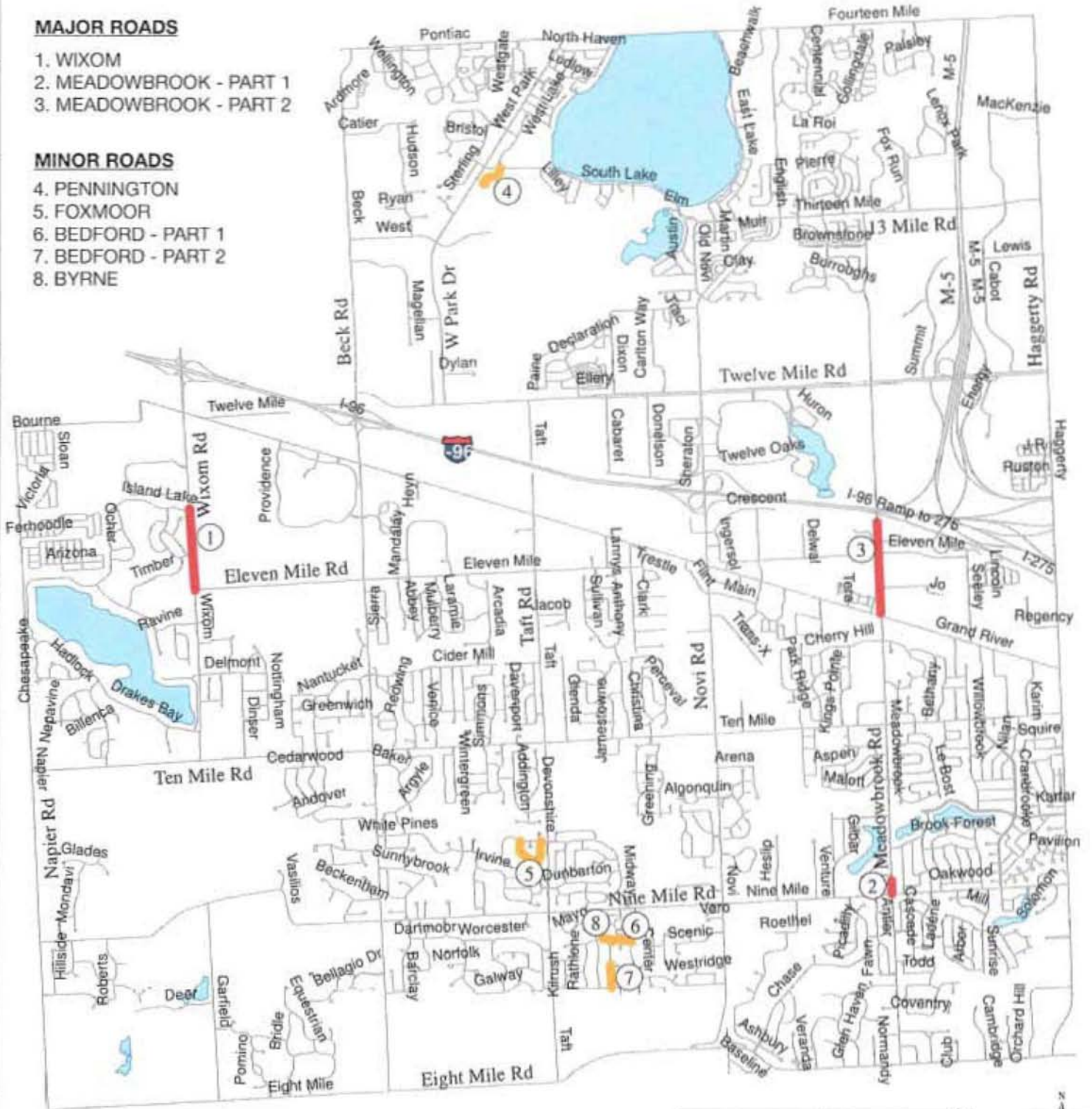
OHM Engineering Advisors OHM Engineering Advisors OHM Engineering Advisors OHM Engineering Advisors OHM Engineering Advisors

MAJOR ROADS

1. WIXOM
2. MEADOWBROOK - PART 1
3. MEADOWBROOK - PART 2

MINOR ROADS

4. PENNINGTON
5. FOXMOOR
6. BEDFORD - PART 1
7. BEDFORD - PART 2
8. BYRNE



City of Novi 2010 Roadway Capital Preventative Maintenance Program General Location Map

OHM
Advisors • Engineers

34000 PLYMOUTH ROAD
LIVONIA, MI 48150
734.523.8711
734.523.6427 (fax)

Data provided by Onuma, Hys and McConant and the Michigan Spatial Data Library. Onuma, Hys and McConant do not warrant the accuracy of the data and/or the map. This document is intended to depict the approximate spatial location of the proposed program within the County and is not a warranty of the work.