



CITY of NOVI CITY COUNCIL

Agenda Item 3
April 19, 2010

SUBJECT: Approval to award a construction contract for the 2010 Roadway Capital Preventative Maintenance (CPM) Program; to Florence Cement Company, the low bidder, in the amount of \$371,138.70.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division *3CT*

CITY MANAGER APPROVAL: *DEM B4*

EXPENDITURE REQUIRED	\$155,044.25 (Local Road CPM) <u>\$216,094.45 (Major Road CPM)</u> \$371,138.70 TOTAL
AMOUNT BUDGETED	\$281,250 (Local Road CPM, includes \$35,246 for engineering) <u>\$218,750 (Major Road CPM, includes \$33,611 for engineering)</u> \$500,000 TOTAL
APPROPRIATION REQUIRED	\$30,955 (Reallocate SAD transfers from Local Street to Major Street; to be reflected in next budget amendment)
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 arterial road segments (Major Road CPM):

ROAD SEGMENT	FROM	TO	PASER	CPM TREATMENT
Local Road CPM				
Pennington Ct	South Lake Dr	End	7	Discrete panel replacement
Foxmoor Dr	White Pines Dr	White Pines Dr	5	Discrete panel replacement, Joint repair
Bedford Dr (Part 1)	Center St	Byrne Dr	4	Discrete panel replacement, Joint repair
Bedford Dr (Part 2)	Galway Dr	Woodside Ct	5	Discrete panel replacement, Joint repair
Byrne Dr	Bedford Dr	End of Concrete	4	Discrete panel replacement, Joint repair
Major Road CPM				
Wixom Rd	Eleven Mile	Island Lake Dr	7	3/4-inch ultra-thin overlay
Meadowbrook Rd	Grand River	I-96 Bridge	7	3/4-inch ultra-thin overlay
Meadowbrook Rd	Nine Mile	End Right Turn Lane	7	Partial width reconstruction

The proposed CPM treatment types are discussed in more detail in the April 9, 2010 memo from Ben Croy, attached.

This project includes multiple repair methods that were determined during the design process based on the City's asset management approach, and designed to extend the life of the City's roads in the most cost-effective manner. A location map is attached showing the location of the selected road segments.

Two bids were received and opened on April 7, 2010 following a public bid solicitation period. The lowest bidder is Florence Cement Company (Florence). Florence's bid is recommended as being in the best interest of the City as it is responsive (i.e., Florence has complied with all requirements of the bidding instructions) and it is the lowest price. (OHM's award recommendation letter including the bid tabulation dated April 9, 2010 is attached). A summary of the two bids is as follows:

Contractor	Bid for Local Road CPM	Bid for Major Road CPM	Total Bid
Florence Cement	\$155,044.25	\$216,094.45	\$371,138.70
Cadillac Asphalt	\$218,007.00	\$282,625.00	\$500,632.00

Florence's bid is below the engineer's estimate of \$455,700, therefore staff is recommending that the Local Road CPM bid and the Major Road CPM bid be awarded to Florence in the total amount of \$371,138.70. Florence successfully completed the Novi Road/Post Office Access Intersection Signalization project in 2005.

The approved project budget is \$500,000, of which \$28,160 was awarded for design engineering in October 2009, \$371,138.70 is recommended for award to Florence for construction, and \$40,697 is recommended for award to OHM for construction engineering services (a separate item on this agenda) for total contract awards in the amount of \$439,996. Staff will identify additional segments for inclusion in the CPM project and utilize the unit prices provided in the bid to add additional scope to the project through a contract change order up to the budget amount. Any change order adding scope to this program will be brought to City Council for approval.

Construction is scheduled to begin in May 2010 and completion is anticipated by July 2010.

RECOMMENDED ACTION: Approval to award a construction contract for the 2010 Roadway Capital Preventative Maintenance (CPM) Program, to Florence Cement Company, the low bidder, in the amount of \$371,138.70.

	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				

City of Novi

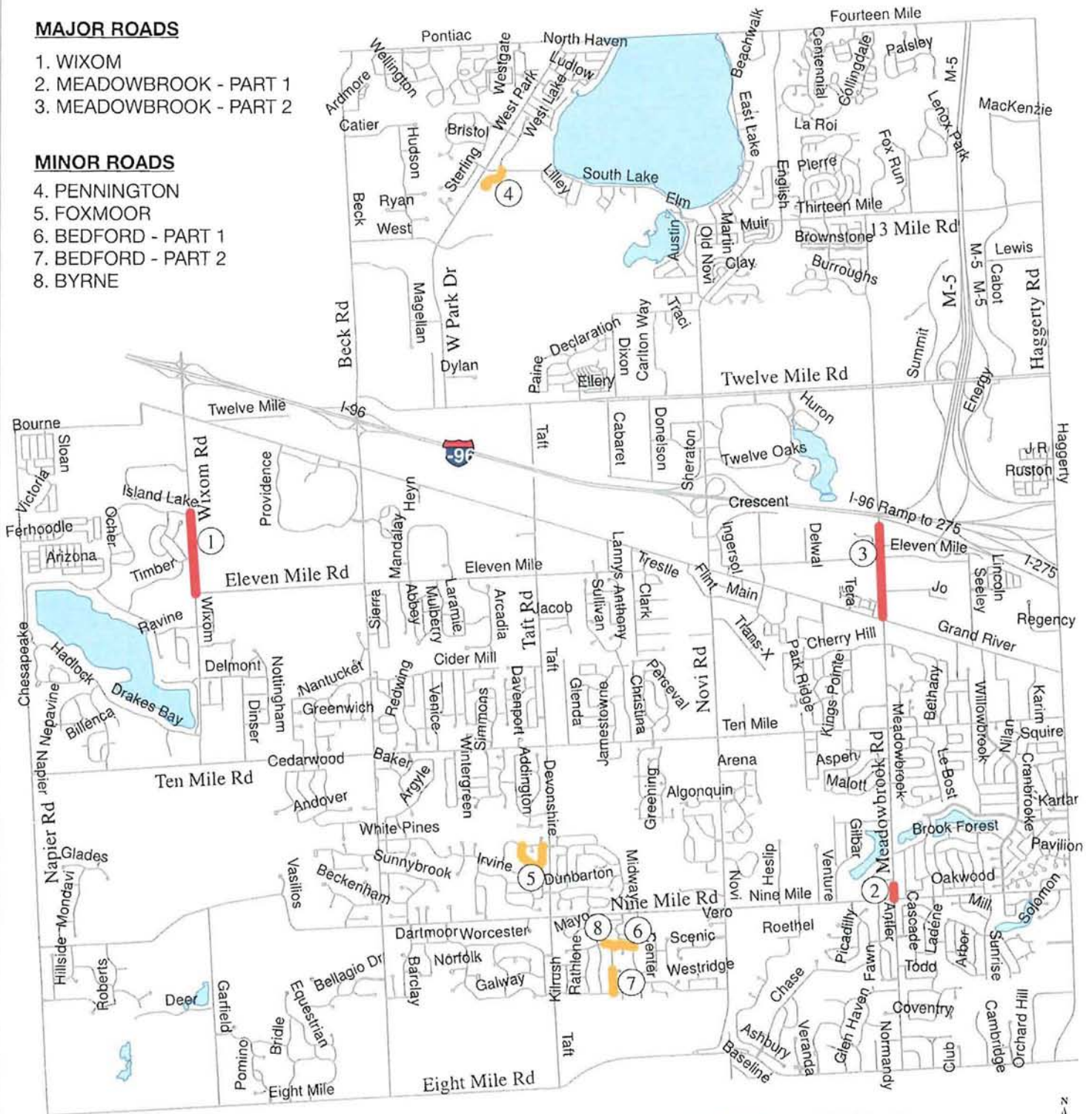
OHM Engineering Advisors OHM Engineering Advisors OHM Engineering Advisors OHM Engineering Advisors OHM Engineering Advisors

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
34000 PLYMOUTH ROAD
LIVONIA, MI 48150
734.522.6711
734.522.6427 (fax)

Data provided by Orchard, Hitz and McCliment and the Michigan Spatial Data Library. Orchard, Hitz and McCliment does not warrant the accuracy of the data and/or the map. This document is intended to depict the approximate spatial location of the mapped features within the County and its use is strictly at the user's own risk.

MEMORANDUM



TO: BRIAN COBURN, PE; SENIOR CIVIL ENGINEER *Brc*
FROM: BEN CROY, PE; CIVIL ENGINEER *BC*
SUBJECT: 2010 CAPITAL PREVENTATIVE MAINTENANCE PROGRAM
DATE: APRIL 9, 2010

One of the primary goals of the Department of Public Services' asset management program is the preservation of the City's local and major roadways (i.e. keep the good roads in good condition). A key component of road preservation is preventative maintenance. The objective of preventative maintenance is to preserve good quality roads using low-cost rehabilitation techniques, rather than allowing the roads to deteriorate to a point that requires road reconstruction involving much more effort at a higher cost.

This year, the City Council included a Capital Preventative Maintenance Program (CPM) in the budget to help improve the City's local and major roadways with the intention of preventing further deterioration of existing pavement and extending the life of the pavement. Staff has identified street segments to receive preventative maintenance in this year's program, using the repair methods briefly discussed below.

3/4-inch Ultra-Thin Overlay (Asphalt)

This repair technique is used on asphalt roads that are structurally in good condition, but have surface defects that would eventually, if untreated, affect the structural condition of the road. Prior to the overlay, the road surface is prepared by addressing cracks and areas to be patched. This type of overlay provides an improved surface finish and seals the pavement surface to prevent further deterioration of the existing structural asphalt and base layers. The cost and impact associated with the ultra thin overlay are significantly less than reconstruction of the road.

Discrete Panel Replacement (Concrete)

This repair technique is appropriate for concrete roads that are generally in good condition but have small defined areas of structurally deficient pavement. This type of repair technique results in improved rideability and life of the road, and can be completed at a significantly reduced cost and impact than with reconstruction.

Discrete Joint Repair (Concrete)

This repair technique is appropriate for concrete roads with concrete panels that are structurally sound, but have failures at the joints. This type of repair technique seals the deteriorating joint with asphalt to prevent infiltration of water into the base layers which would eventually cause the pavement structure to fail. The treatment reduces recurring maintenance, results in improved rideability of the road, and is a significant reduction in the cost and impact associated with reconstruction of the road.

April 12, 2010

City of Novi
26300 Delwal Drive
Novi, MI 48375



Attention: Ben Croy, P.E. Engineer

Regarding: 2010 Roadway Capital Preventative Maintenance Program
Recommendation of Award
OHM Job # 0163-09-0040

Dear Mr. Croy:

Sealed bids for the 2010 Roadway CPM Project were received and publicly read aloud on Wednesday, April 7, 2010. Proposals were received from two (2) bidders. The two (2) bidders are as follows:

Contractor	Amount
Florence Cement Company	\$ 393,278.70
Cadillac Asphalt	\$ 546,757.00

The Engineer's Opinion of Probable Construction Cost was estimated to be \$470,220.00

The project scope consists of performing preventative maintenance work on the following City Streets: Major Roads: Wixom Road and Meadowbrook Road (two locations), Minor Streets: Pennington, Foxmoor, Bedford (two locations), and Byrne. The work to be done under this Contract includes the furnishing of materials, equipment, and labor necessary to complete the maintenance work, as well as all necessary restoration in accordance with the specifications.

Florence Cement Company, located in Shelby Township, Michigan, is the apparent lowest responsive & responsible bidder for this project. They have positive references from the City of Oak Park, and the City of Auburn Hills. In addition, our office contact Florence Cement regarding the unusual unit prices bid for HMA, 4C and Pavement Joint and Crack Repair, Detail 8, in which they bid \$0.01. Florence Cement stated they were comfortable with their bid and would complete the work at their unit prices bid. Based on our findings, we recommend award of this contract to Florence Cement Company in the amount of \$393,278.70, per the unit prices bid for the project.

If you have any questions please do not hesitate to give our office a call at (734) 522-6711.

Sincerely,
ORCHARD, HILTZ & McCLIMENT, INC.

A handwritten signature in black ink, appearing to read "James C. Stevens", is written over a horizontal line.

James C. Stevens, P.E.

Item No.	Description	Estimated Quantity	Unit	Price	Amount	Unit Price	Amount
DIVISION A: Bedford - Center to Byrne (Minor)							
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$3,000.00	\$3,000.00
2)	Audio Video Route Survey	1	LS	\$600.00	\$600.00	\$985.00	\$985.00
3)	Traffic Maintenance and Control	1	LS	\$100.00	\$100.00	\$8,000.00	\$8,000.00
4)	Flag Control	1	LS	\$100.00	\$100.00	\$7,500.00	\$7,500.00
6)	Pavt, Rem	100	Syd	\$15.00	\$1,500.00	\$12.00	\$1,200.00
7)	Erosion Control, Inlet Protection, Geotextile and Stone	4	Ea	\$35.00	\$140.00	\$200.00	\$800.00
8)	Aggregate Base, 21AA	40	Ton	\$19.00	\$760.00	\$20.00	\$800.00
9)	Subgrade Undercutting, Type II (Modified)	10	Cyd	\$32.00	\$320.00	\$35.00	\$350.00
10)	Pavt Joint and Crack Repr, Det 7	900	Ft	\$10.00	\$9,000.00	\$5.00	\$4,500.00
11)	Pavt Joint and Crack Repr, Det 8	500	Ft	\$0.01	\$5.00	\$6.00	\$3,000.00
12)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	100	Syd	\$45.00	\$4,500.00	\$52.00	\$5,200.00
13)	Resealing Longit Joints with Hot-Poured Rubber	1250	Ft	\$1.00	\$1,250.00	\$1.00	\$1,250.00
14)	Resealing Transv Joints with Hot-Poured Rubber	1250	Ft	\$0.90	\$1,125.00	\$1.00	\$1,250.00
15)	Saw Cut, Repair	30	Ft	\$2.00	\$60.00	\$50.00	\$1,500.00
16)	Partial Reconstruction of Drainage Structure	8	Ft	\$250.00	\$2,000.00	\$100.00	\$800.00
17)	Structure Cover, Adj, Case 2	1	Ea	\$250.00	\$250.00	\$300.00	\$300.00
18)	Fertilizer, Chemical Nutrient, Cl A	2	Lb	\$2.00	\$4.00	\$2.00	\$4.00
19)	Topsoil, Seed and Mulch, 3 inch	40	Syd	\$10.00	\$400.00	\$4.00	\$160.00
TOTAL DIVISION A:					<u>\$22,214.00</u>		<u>\$40,599.00</u>
DIVISION B: Bedford - Woodside Ct to Galway Dr (Minor)							
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$2,500.00	\$2,500.00
2)	Audio Video Route Survey	1	LS	\$500.00	\$500.00	\$2,985.00	\$2,985.00
3)	Traffic Maintenance and Control	1	LS	\$100.00	\$100.00	\$3,500.00	\$3,500.00
4)	Flag Control	1	LS	\$100.00	\$100.00	\$3,000.00	\$3,000.00
6)	Erosion Control, Inlet Protection, Geotextile and Stone	4	Ea	\$35.00	\$140.00	\$200.00	\$800.00
7)	Pavt Joint and Crack Repr, Det 7	850	Ft	\$10.00	\$8,500.00	\$5.00	\$4,250.00
8)	Pavt Joint and Crack Repr, Det 8	300	Ft	\$0.01	\$3.00	\$6.00	\$1,800.00
9)	Resealing Longit Joints with Hot-Poured Rubber	1300	Ft	\$1.00	\$1,300.00	\$1.00	\$1,300.00
10)	Resealing Transv Joints with Hot-Poured Rubber	13,800	Ft	\$0.90	\$12,420.00	\$1.00	\$13,800.00
11)	Saw Cut, Repair	40	Ft	\$2.00	\$80.00	\$50.00	\$2,000.00
TOTAL DIVISION B:					<u>\$23,243.00</u>		<u>\$35,935.00</u>
DIVISION C: Byrne (Minor)							
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$2,750.00	\$2,750.00
2)	Audio Video Route Survey	1	LS	\$400.00	\$400.00	\$825.00	\$825.00
3)	Traffic Maintenance and Control	1	LS	\$100.00	\$100.00	\$4,000.00	\$4,000.00
4)	Flag Control	1	LS	\$100.00	\$100.00	\$3,500.00	\$3,500.00
6)	Pavt, Rem	200	Syd	\$15.00	\$3,000.00	\$12.00	\$2,400.00
7)	Erosion Control, Inlet Protection, Geotextile and Stone	2	Ea	\$35.00	\$70.00	\$200.00	\$400.00
8)	Aggregate Base, 21AA	80	Ton	\$19.00	\$1,520.00	\$20.00	\$1,600.00
9)	Subgrade Undercutting, Type II (Modified)	10	Cyd	\$32.00	\$320.00	\$35.00	\$350.00
10)	Pavt Joint and Crack Repr, Det 7	225	Ft	\$10.00	\$2,250.00	\$10.00	\$2,250.00
11)	Pavt Joint and Crack Repr, Det 8	225	Ft	\$0.01	\$2.25	\$9.00	\$2,025.00
12)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	200	Syd	\$45.00	\$9,000.00	\$52.00	\$10,400.00
13)	Resealing Longit Joints with Hot-Poured Rubber	575	Ft	\$1.00	\$575.00	\$1.00	\$575.00
14)	Resealing Transv Joints with Hot-Poured Rubber	400	Ft	\$0.90	\$360.00	\$1.00	\$400.00
15)	Saw Cut, Repair	20	Ft	\$2.00	\$40.00	\$50.00	\$1,000.00
16)	Fertilizer, Chemical Nutrient, Cl A	3	Lb	\$2.00	\$6.00	\$2.00	\$6.00
17)	Topsoil, Seed and Mulch, 3 inch	45	Syd	\$10.00	\$450.00	\$4.00	\$180.00
TOTAL DIVISION C:					<u>\$18,293.25</u>		<u>\$32,661.00</u>
DIVISION D: Foxmoor (Minor)							
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$3,500.00	\$3,500.00
2)	Audio Video Route Survey	1	LS	\$800.00	\$800.00	\$1,475.00	\$1,475.00
3)	Traffic Maintenance and Control	1	LS	\$100.00	\$100.00	\$3,900.00	\$3,900.00
4)	Flag Control	1	LS	\$100.00	\$100.00	\$4,000.00	\$4,000.00
6)	Pavt, Rem	600	Syd	\$15.00	\$9,000.00	\$12.00	\$7,200.00
7)	Erosion Control, Inlet Protection, Geotextile and Stone	12	Ea	\$35.00	\$420.00	\$200.00	\$2,400.00
8)	Aggregate Base, 21AA	240	Ton	\$19.00	\$4,560.00	\$20.00	\$4,800.00
9)	Subgrade Undercutting, Type II (Modified)	40	Cyd	\$32.00	\$1,280.00	\$35.00	\$1,400.00
10)	Pavt Joint and Crack Repr, Det 7	575	Ft	\$10.00	\$5,750.00	\$6.00	\$3,450.00
11)	Pavt Joint and Crack Repr, Det 8	200	Ft	\$0.01	\$2.00	\$5.00	\$1,000.00
12)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	600	Syd	\$45.00	\$27,000.00	\$46.00	\$27,600.00
13)	Resealing Longit Joints with Hot-Poured Rubber	3100	Ft	\$1.00	\$3,100.00	\$1.00	\$3,100.00
14)	Resealing Transv Joints with Hot-Poured Rubber	2750	Ft	\$0.90	\$2,475.00	\$1.00	\$2,750.00
15)	Saw Cut, Repair	100	Ft	\$2.00	\$200.00	\$50.00	\$5,000.00
16)	Partial Reconstruction of Drainage Structure	16	Ft	\$250.00	\$4,000.00	\$100.00	\$1,600.00
17)	Structure Cover, Adj, Case 2	2	Ea	\$250.00	\$500.00	\$300.00	\$600.00
18)	Fertilizer, Chemical Nutrient, Cl A	10	Lb	\$2.00	\$20.00	\$2.00	\$20.00
19)	Topsoil, Seed and Mulch, 3 inch	210	Syd	\$10.00	\$2,100.00	\$4.00	\$840.00
TOTAL DIVISION D:					<u>\$61,507.00</u>		<u>\$74,635.00</u>

Tabulation of Bids Received on 4/7/10
 2010 Roadway Capital Preventative Maintenance Program
 City of Novi, MI
 OHM Job No: 0163-09-0040

Florence Cement Company
 12798 23 Mile Rd.
 Shelby Twp., MI 48315
 Phone: 586-997-2666

Cadillac Asphalt, LLC
 51777 12 Mile
 Wixom, MI 48393
 Phone: 248-349-8600

Item No.	Description	Estimated Quantity	Unit	Price	Amount	Unit	Price	Amount	
DIVISION E: Pennington (Minor)									
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$2,000.00		\$2,000.00	
2)	Audio Video Route Survey	1	LS	\$700.00	\$700.00	\$985.00		\$985.00	
3)	Traffic Maintenance and Control	1	LS	\$100.00	\$100.00	\$2,500.00		\$2,500.00	
4)	Flag Control	1	LS	\$100.00	\$100.00	\$1,500.00		\$1,500.00	
6)	Pavt, Rem	325	Syd	\$15.00	\$4,875.00	\$12.00		\$3,900.00	
7)	Erosion Control, Inlet Protection, Geotextile and Stone	4	Ea	\$35.00	\$140.00	\$200.00		\$800.00	
8)	Aggregate Base, 21AA	140	Ton	\$19.00	\$2,660.00	\$20.00		\$2,800.00	
9)	Subgrade Undercutting, Type II (Modified)	25	Cyd	\$32.00	\$800.00	\$35.00		\$875.00	
10)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 7 inch	325	Syd	\$45.00	\$14,625.00	\$45.00		\$14,625.00	
11)	Resealing Longit Joints with Hot-Poured Rubber	850	Ft	\$1.00	\$850.00	\$1.00		\$850.00	
12)	Resealing Transv Joints with Hot-Poured Rubber	1250	Ft	\$0.90	\$1,125.00	\$1.00		\$1,250.00	
13)	Partial Reconstruction of Drainage Structure	8	Ft	\$250.00	\$2,000.00	\$100.00		\$800.00	
14)	Structure Cover, Adj, Case 2	2	Ea	\$250.00	\$500.00	\$400.00		\$800.00	
15)	Fertilizer, Chemical Nutrient, CI A	6	Lb	\$2.00	\$12.00	\$2.00		\$12.00	
16)	Topsoil, Seed and Mulch, 3 inch	120	Syd	\$10.00	\$1,200.00	\$4.00		\$480.00	
TOTAL DIVISION E:					\$29,787.00			\$34,177.00	
DIVISION F: Wixom (Major)									
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$3,500.00		\$3,500.00	
2)	Audio Video Route Survey	1	LS	\$850.00	\$850.00	\$1,875.00		\$1,875.00	
3)	Traffic Maintenance and Control	1	LS	\$6,000.00	\$6,000.00	\$6,000.00		\$6,000.00	
4)	Flag Control	1	LS	\$100.00	\$100.00	\$6,000.00		\$6,000.00	
6)	Pavt, Rem	325	Syd	\$67.50	\$21,937.50	\$12.00		\$3,900.00	
7)	Erosion Control, Inlet Protection, Geotextile and Stone	6	Ea	\$35.00	\$210.00	\$200.00		\$1,200.00	
8)	Overband Crack Fill, Roadbed	0.45	Rbmi	\$8,300.00	\$3,735.00	\$10,000.00		\$4,500.00	
9)	HMA, 4C	210	Ton	\$0.01	\$2.10	\$115.00		\$24,150.00	
10)	HMA, Ultra Thin Overlay, 3/4 inch	8850	Syd	\$5.00	\$44,250.00	\$5.80		\$51,330.00	
11)	Structure Cover, Adj, Case 2	4	Ea	\$250.00	\$1,000.00	\$400.00		\$1,600.00	
12)	Pavt Mrkg, Inlay Cold Plastic, School	1	Ea	\$295.00	\$295.00	\$295.00		\$295.00	
13)	Pavt Mrkg, Inlay Cold Plastic, 12 inch, Cross Hatching, White	250	Ft	\$6.75	\$1,687.50	\$7.00		\$1,750.00	
14)	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	5900	Ft	\$0.50	\$2,950.00	\$0.49		\$2,891.00	
15)	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	700	Ft	\$0.50	\$350.00	\$0.49		\$343.00	
16)	Pavt Mrkg, Inlay Cold Plastic, 6 inch, Crosswalk	125	Ft	\$3.35	\$418.75	\$4.00		\$500.00	
TOTAL DIVISION F:					\$83,885.85			\$109,834.00	
DIVISION G: Meadowbrook - SB Lane at 9 Mile Rd (Major)									
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$2,900.00		\$2,900.00	
2)	Audio Video Route Survey	1	LS	\$500.00	\$500.00	\$825.00		\$825.00	
3)	Traffic Maintenance and Control	1	LS	\$100.00	\$100.00	\$4,000.00		\$4,000.00	
4)	Flag Control	1	LS	\$100.00	\$100.00	\$2,500.00		\$2,500.00	
6)	Curb and Gutter, Rem	300	Ft	\$15.00	\$4,500.00	\$10.00		\$3,000.00	
7)	Pavt, Rem	300	Syd	\$15.00	\$4,500.00	\$12.00		\$3,600.00	
8)	Aggregate Base, 21AA	140	Ton	\$19.00	\$2,660.00	\$20.00		\$2,800.00	
9)	Subgrade Undercutting, Type II (Modified)	25	Cyd	\$32.00	\$800.00	\$35.00		\$875.00	
10)	Maintenance Aggregate, 21AA	20	Ton	\$19.00	\$380.00	\$20.00		\$400.00	
11)	Pavt Repr w/ Intg Curb, Nonreinf Conc, 8 inch	300	Syd	\$45.00	\$13,500.00	\$52.00		\$15,600.00	
12)	Resealing Longit Joints with Hot-Poured Rubber	300	Ft	\$1.00	\$300.00	\$1.00		\$300.00	
13)	Resealing Transv Joints with Hot-Poured Rubber	140	Ft	\$0.90	\$126.00	\$1.00		\$140.00	
14)	Fertilizer, Chemical Nutrient, CI A	8	Lb	\$2.00	\$16.00	\$2.00		\$16.00	
15)	Topsoil, Seed and Mulch, 3 inch	165	Syd	\$10.00	\$1,650.00	\$4.00		\$660.00	
TOTAL DIVISION G:					\$29,232.00			\$37,616.00	
DIVISION H: Meadowbrook - Grand River Ave to I-96 (Major)									
1)	Mobilization, Max. 10%	1	LS	\$100.00	\$100.00	\$8,500.00		\$8,500.00	
2)	Audio Video Route Survey	1	LS	\$950.00	\$950.00	\$1,985.00		\$1,985.00	
3)	Traffic Maintenance and Control	1	LS	\$6,000.00	\$6,000.00	\$7,000.00		\$7,000.00	
4)	Flag Control	1	LS	\$100.00	\$100.00	\$5,000.00		\$5,000.00	
6)	Pavt, Rem	250	Syd	\$67.50	\$16,875.00	\$12.00		\$3,000.00	
7)	Erosion Control, Inlet Protection, Geotextile and Stone	2	Ea	\$35.00	\$70.00	\$200.00		\$400.00	
8)	Overband Crack Fill, Roadbed	0.6	Rbmi	\$8,300.00	\$4,980.00	\$10,000.00		\$6,000.00	
9)	HMA, 4C	160	Ton	\$0.01	\$1.60	\$130.00		\$20,800.00	
10)	HMA, Ultra Thin Overlay, 3/4 inch	13,500	Syd	\$5.00	\$67,500.00	\$5.80		\$78,300.00	
11)	Structure Cover, Adj, Case 2	1	Ea	\$250.00	\$250.00	\$500.00		\$500.00	
12)	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	6800	Ft	\$0.50	\$3,400.00	\$0.30		\$2,040.00	
13)	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	5500	Ft	\$0.50	\$2,750.00	\$0.30		\$1,650.00	
TOTAL DIVISION H:					\$102,976.60			\$135,175.00	
DIVISION I: Project Observation									
1)	Crew Days Div A	615	\$/Day	4.00	\$2,460.00	8.00		\$4,920.00	
1)	Crew Days Div B	615	\$/Day	4.00	\$2,460.00	4.00		\$2,460.00	
1)	Crew Days Div C	615	\$/Day	4.00	\$2,460.00	8.00		\$4,920.00	
1)	Crew Days Div D	615	\$/Day	4.00	\$2,460.00	12.00		\$7,380.00	
1)	Crew Days Div E	615	\$/Day	4.00	\$2,460.00	11.00		\$6,765.00	
1)	Crew Days Div F	615	\$/Day	6.00	\$3,690.00	12.00		\$7,380.00	
1)	Crew Days Div G	615	\$/Day	4.00	\$2,460.00	10.00		\$6,150.00	
1)	Crew Days Div H	615	\$/Day	6.00	\$3,690.00	10.00		\$6,150.00	
TOTAL DIVISION I:					36.00	\$22,140.00		75.00	\$46,125.00
TOTAL BID AMOUNT:					\$393,278.70			\$546,757.00	