



CITY of NOVI CITY COUNCIL

Agenda Item 9
May 21, 2018

SUBJECT: Approval to award the construction contract for 2018 and 2019 Concrete Panel Replacement Program to Great Lakes Contracting Solutions LLC, the low-bidder, in the amount of \$1,622,869.75

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division

CITY MANAGER APPROVAL:

EXPENDITURE REQUIRED	\$ 940,703.90 CPR 2018 <u>\$ 682,165.85</u> CPR 2019 \$ 1,622,869.75 Total
AMOUNT BUDGETED	\$ 347,543 CPR 2018 (FY 2017-18) <u>\$ 1,400,000</u> CPR 2018 (FY 2018-19) \$1,747,543 Subtotal \$ 42,000 CPR 2019 (FY 2017-18; 203 Fund) \$ 850,000 CPR 2019 (FY 2019-20; 203 Fund) <u>\$ 150,000</u> CPR 2019 (FY 2019-20; 210 Fund) \$1,042,000 Subtotal \$ 2,789,543 Total
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	203-203.00-985.003 (ENG002 CPR 2018) 203-203.00-985.004 (ENG002 CPR 2019) 210-211.00-985.004 (ENG002 CPR 2019)

BACKGROUND INFORMATION:

AECOM, engineering consultants to the City, helped develop a list of streets for the 2018 and 2019 Concrete Panel Replacement (CPR) Program. The program was advertised for a two-year contract to capture unit prices and lower the logistical costs of bidding, designing, and construction. This process allows the City flexibility with regards to the scheduling of different project areas. The Concrete Panel Replacement Program work includes concrete pavement repairs to the local road network in an effort to preserve the longevity of the existing roadways.

The roads selected for 2018 Concrete Panel Replacement Program are Bristol Circle, Mclean Court, Winnsborough Lane, Castlewood Drive, Havergale Street, Moorgate Street, Byrne Drive, portions of Cranbrooke Drive, Londonderry Drive, Franklin Mill Street, Sunrise Boulevard, Ladene Lane, Arbor Lane, Greentree Lane and Clover at Greentree Lane Roscommon Drive, Pellston Drive, Glen Haven Circle East, Broquet Road, and Onaway Drive.

The roads selected for the 2019 Concrete Panel Replacement Program are Waycroft Drive, Courtview Trail, Roxbury Drive, Carlisle Court, Cherry Hill Road, Park Ridge Court, portions of Cranbrooke Drive and Nilan Drive.

AECOM assisted the Engineering Division with developing the plans for this project. The plans were advertised for public bids on April 30, 2018. Seven (7) bids were received and opened on May 14, 2018 following the solicitation period. Great Lakes Contracting Solutions' bid is being recommended as being in the best interest of the City as it is responsive and complies with all of the requirements of the bidding instructions. The award recommendation letter including the bid tabulation is attached. A summary of the bid tabulation is as follows:

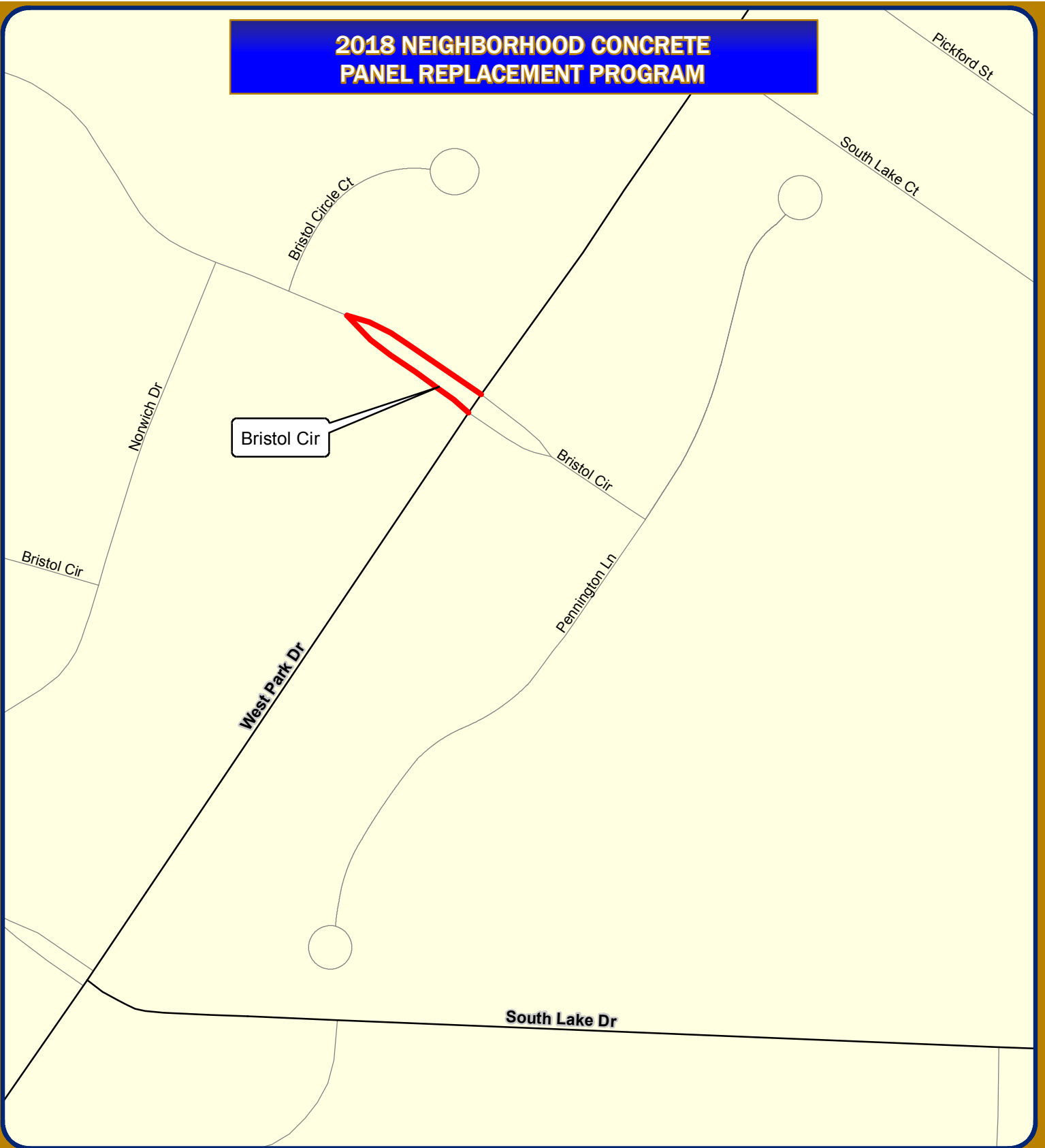
Contractor	Base Bid (including Crew Days)*
Great Lakes Contracting Solutions	\$ 1,682,369.75
L. Anthony Construction	\$ 1,714,992.00
HMC LLC	\$ 1,724,435.35
JB Contractors	\$ 1,800,355.00
Cipparrone Contracting	\$ 1,820,839.75
Audia Concrete	\$ 1,955,744.00
Merlo Construction	\$ 2,207,662.50

***Crew Days are included to compare bids, but are not included in the award.**

The construction engineering services award associated with this project is proposed elsewhere on this agenda. The 2018 selected roads will be substantially complete by fall 2018. The 2019 selected roads will be substantially complete by fall 2019.

RECOMMENDED ACTION: Approval to award the construction contract for 2018 and 2019 Concrete Panel Replacement Program to Great Lakes Contracting Solutions LLC, the low-bidder, in the amount of \$1,622,869.75

2018 NEIGHBORHOOD CONCRETE PANEL REPLACEMENT PROGRAM




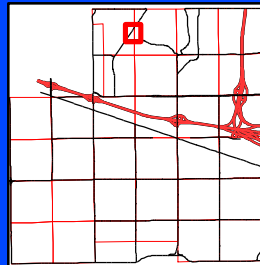
Map Author: Joseph Akers
Date: May 10, 2018
Project: 2018 Road Construction
Version #: 1.3

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

Legend

 2018 Concrete Panel Replacement



City of Novi

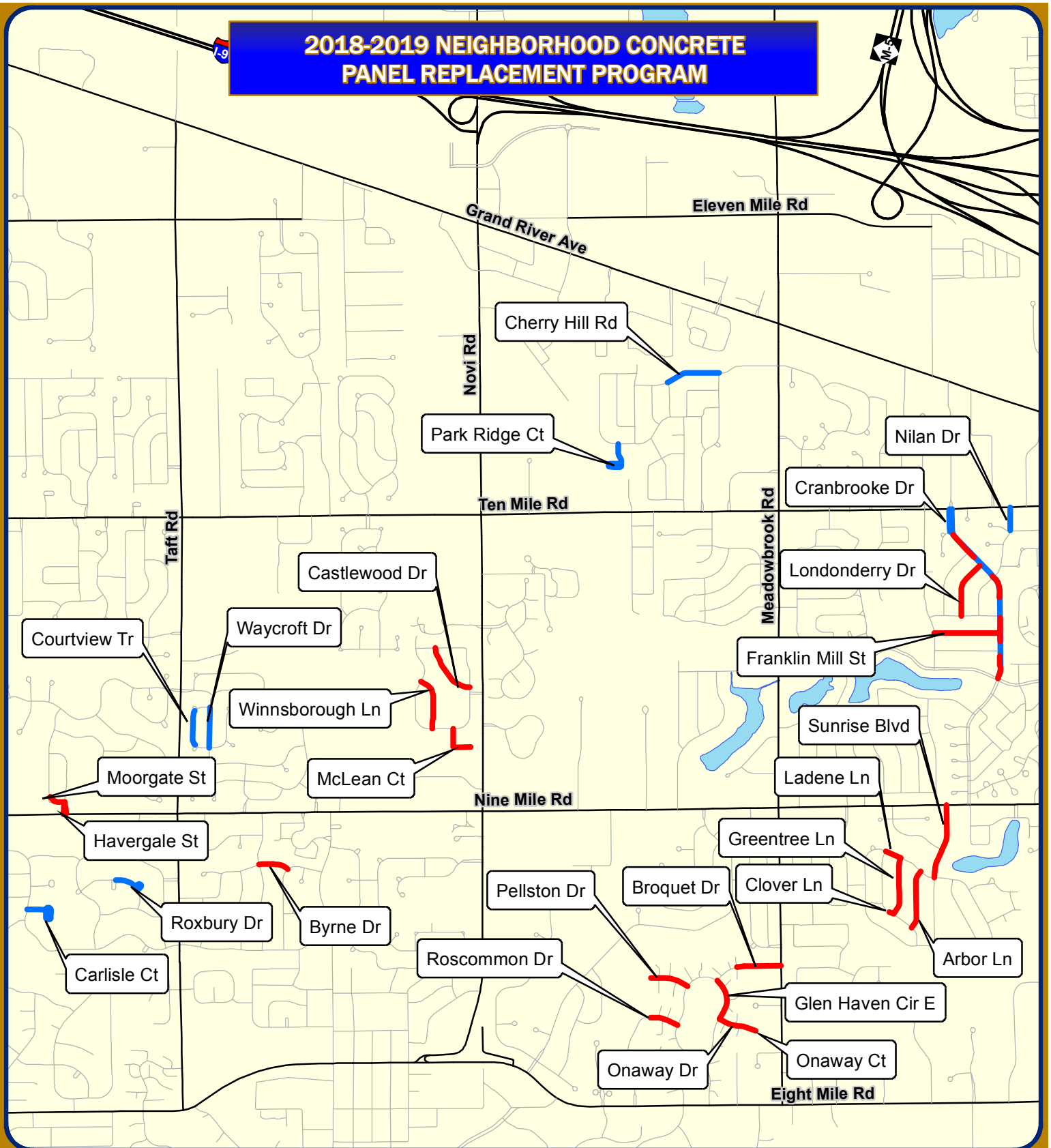
Engineering Division
Department of Public Services
26300 Lee BeGole Drive
Novi, MI 48375
cityofnovi.org



1 inch = 250 feet



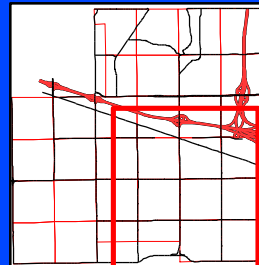
2018-2019 NEIGHBORHOOD CONCRETE PANEL REPLACEMENT PROGRAM



Map Author: Joseph Akers
 Date: May 10, 2018
 Project: 2018 Road Construction
 Version #: 1.3

Legend

- 2018 Concrete Panel Replacement
- 2019 Concrete Panel Replacement



City of Novi

Engineering Division
 Department of Public Services
 26300 Lee BeGole Drive
 Novi, MI 48375
cityofnovi.org



1 inch = 2,327 feet



MAP INTERPRETATION NOTICE

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May 16, 2018

Mr. Joseph Akers
City of Novi
Engineering Department
26300 Lee BeGole Dr
Novi, MI 48375

Reference: Bid Analysis and Contract Award Recommendation
2018-2019 Concrete Panel Replacement Program
AECOM Project Number 60568692

Dear Mr. Akers:

Attached is the Bid Tabulation for the above referenced project. Seven bids were received and opened. This bid is under the latest Engineer's Estimate. The following irregularities were noted in the bids:

There were minor errors in the low bid estimate. Different unit prices were used in the 2018 Bids and 2019 Bids. The award is based on the 2018 Bid prices for both 2018 and 2019 Bids.

The other bids also had minor arithmetic errors and different unit prices in the 2018 Bids and 2019 Bids. These errors did not affect the outcome of the bidding.

Great Lakes Contracting Solutions, the low bidder, has successfully completed similar projects in the City of Novi, City of Southgate, and City of Westland. The bonding company listed in the Statement of Qualifications has an AM Best rating that exceeds the minimum requirements.

We recommend award of the 2018 Concrete Panel Replacement Program and 2019 Concrete Panel Replacement Program contract, to Great Lakes Contracting Solutions for the Bid Amount, excluding crew day costs, of \$1,622,869.75.

Please feel free to contact me if you need anything else or wish to discuss the project.

Sincerely,

Sean Kelsch, P.E.
Project Manager

cc: George Melistas, City of Novi
Mark Koskinen, AECOM

City of Novi
2018-2019 Concrete Repair Program
Bid Tabulation
5/15/2018

Item No.	Item Description	Unit	2018 Quantity	2019 Quantity	Engineer's Estimate			Great Lakes Contracting Solutions				
					Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)	Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)
1	Mobilization (10%)	LS	1	1	\$ 106,045.35	\$ 106,045.35	\$ 76,765.10	\$ 182,810.45		\$ 18,000.00	\$ 20,000.00	\$ 38,000.00
2	Pre-Construction Audio-Visual	LS	1	1	\$ 9,500.00	\$ 9,500.00	\$ 4,000.00	\$ 13,500.00		\$ 4,800.00	\$ 4,800.00	\$ 9,600.00
3	Pavt, Rem	Syd	7293	882	\$ 7.00	\$ 51,051.00	\$ 6,174.00	\$ 57,225.00	\$ 7.80	\$ 56,885.40	\$ 6,879.60	\$ 63,765.00
4	Pavt, Repair, Rem	Syd	5562	8930	\$ 12.00	\$ 66,744.00	\$ 107,160.00	\$ 173,904.00	\$ 9.50	\$ 52,839.00	\$ 84,835.00	\$ 137,674.00
5	Pavt, Repair, Rem, Special	Syd	100	100	\$ 17.00	\$ 1,700.00	\$ 1,700.00	\$ 3,400.00	\$ 27.50	\$ 2,750.00	\$ 2,750.00	\$ 5,500.00
6	Undercut, Special, 1x3	Cyd	150	50	\$ 45.00	\$ 6,750.00	\$ 2,250.00	\$ 9,000.00	\$ 40.00	\$ 6,000.00	\$ 2,000.00	\$ 8,000.00
7	Roadway Grading	Sta	18.9	4.2	\$ 2,000.00	\$ 37,800.00	\$ 8,400.00	\$ 46,200.00	\$ 1,200.00	\$ 22,680.00	\$ 5,040.00	\$ 27,720.00
8	Aggregate Base, Conditioning	Syd	5662	9030	\$ 3.00	\$ 16,986.00	\$ 27,090.00	\$ 44,076.00	\$ 2.50	\$ 14,155.00	\$ 22,575.00	\$ 36,730.00
9	Erosion Control, Silt Fence	Ft	1000	600	\$ 2.00	\$ 2,000.00	\$ 1,200.00	\$ 3,200.00	\$ 2.50	\$ 2,500.00	\$ 1,500.00	\$ 4,000.00
10	Erosion Control, Inlet Protection, Fabric Drop	Ea	108	65	\$ 250.00	\$ 27,000.00	\$ 16,250.00	\$ 43,250.00	\$ 100.00	\$ 10,800.00	\$ 6,500.00	\$ 17,300.00
11	Conc Pavt with Integral Curb, Nonreinf, 8 inch	Syd	7293	882	\$ 48.00	\$ 350,064.00	\$ 42,336.00	\$ 392,400.00	\$ 45.00	\$ 328,185.00	\$ 39,690.00	\$ 367,875.00
12	Concrete Pavt, Full Depth Slab Repair	Syd	5562	8930	\$ 55.00	\$ 305,910.00	\$ 491,150.00	\$ 797,060.00	\$ 49.00	\$ 272,538.00	\$ 437,570.00	\$ 710,108.00
13	Longit Joint Repair, 30 Inch Wide, Full Depth	Syd	100	100	\$ 60.00	\$ 6,000.00	\$ 6,000.00	\$ 12,000.00	\$ 53.20	\$ 5,320.00	\$ 5,320.00	\$ 10,640.00
14	Sidewalk, Rem	Syd	77	33	\$ 10.00	\$ 770.00	\$ 330.00	\$ 1,100.00	\$ 7.50	\$ 577.50	\$ 247.50	\$ 825.00
15	Sidewalk Ramp, Conc, 6 inch	Sft	675	300	\$ 9.50	\$ 6,412.50	\$ 2,850.00	\$ 9,262.50	\$ 6.75	\$ 4,556.25	\$ 2,025.00	\$ 6,581.25
16	Aggregate Base, 21AA Limestone, 4 inch	Syd	7368	915	\$ 9.00	\$ 66,312.00	\$ 8,235.00	\$ 74,547.00	\$ 7.25	\$ 53,418.00	\$ 6,633.75	\$ 60,051.75
17	Detectable Warning Surface	Ft	60	20	\$ 40.00	\$ 2,400.00	\$ 800.00	\$ 3,200.00	\$ 35.00	\$ 2,100.00	\$ 700.00	\$ 2,800.00
18	Dr Structure, Rem	Ea	4	2	\$ 400.00	\$ 1,600.00	\$ 800.00	\$ 2,400.00	\$ 375.00	\$ 1,500.00	\$ 750.00	\$ 2,250.00
19	Dr Structure, 24 inch dia	Ea	4	2	\$ 1,200.00	\$ 4,800.00	\$ 2,400.00	\$ 7,200.00	\$ 950.00	\$ 3,800.00	\$ 1,900.00	\$ 5,700.00
20	Dr Structure Cover	Ea	4	2	\$ 750.00	\$ 3,000.00	\$ 1,500.00	\$ 4,500.00	\$ 775.00	\$ 3,100.00	\$ 1,550.00	\$ 4,650.00
21	Dr Structure Cover, Adj, Case 1	Ea	25	9	\$ 450.00	\$ 11,250.00	\$ 4,050.00	\$ 15,300.00	\$ 375.00	\$ 9,375.00	\$ 3,375.00	\$ 12,750.00
22	Point Up Drainage Structure	Ea	25	9	\$ 200.00	\$ 5,000.00	\$ 1,800.00	\$ 6,800.00	\$ 250.00	\$ 6,250.00	\$ 2,250.00	\$ 8,500.00
23	Reconstruct Drainage Structure	Ft	30	14	\$ 200.00	\$ 6,000.00	\$ 2,800.00	\$ 8,800.00	\$ 100.00	\$ 3,000.00	\$ 1,400.00	\$ 4,400.00
24	Underdrain, Subgrade, Open-Graded, 6 inch	Ft	3537	848	\$ 12.00	\$ 42,444.00	\$ 10,176.00	\$ 52,620.00	\$ 11.75	\$ 41,559.75	\$ 9,964.00	\$ 51,523.75
25	Dr Structure Tap, 6 inch	Ea	20	4	\$ 250.00	\$ 5,000.00	\$ 1,000.00	\$ 6,000.00	\$ 100.00	\$ 2,000.00	\$ 400.00	\$ 2,400.00
26	Sign, Type IIIB, R1-1	Sft	19	19	\$ 20.00	\$ 380.00	\$ 380.00	\$ 760.00	\$ 25.00	\$ 475.00	\$ 475.00	\$ 950.00
27	Sign, Type IIIB, R1-2	Sft	14	14	\$ 20.00	\$ 280.00	\$ 280.00	\$ 560.00	\$ 25.00	\$ 350.00	\$ 350.00	\$ 700.00
28	Pvt Mrkg, Waterborne 12 inch, Stop Bar, Special	Ft	96	60	\$ 5.00	\$ 480.00	\$ 300.00	\$ 780.00	\$ 4.50	\$ 432.00	\$ 270.00	\$ 702.00
29	Pvt Mrkg, Waterborne 12 inch, Crosswalk, Special	Ft	124	48	\$ 5.00	\$ 620.00	\$ 240.00	\$ 860.00	\$ 4.50	\$ 558.00	\$ 216.00	\$ 774.00
30	Maintaining Traffic	LS	1	1	\$ 22,500.00	\$ 22,500.00	\$ 16,000.00	\$ 38,500.00	\$ 10,200.00	\$ 10,200.00	\$ 10,200.00	\$ 20,400.00
31	Crew Days	Day	65	35	\$ 700.00	\$ 45,500.00	\$ 24,500.00	\$ 70,000.00		\$ 31,500.00	\$ 28,000.00	\$ 59,500.00
					Total Cost	\$ 1,212,298.85	\$ 868,916.10	\$ 2,081,214.95		\$ 972,203.90	\$ 710,165.85	\$ 1,682,369.75
					minus crew days	\$ 1,166,798.85	\$ 844,416.10	\$ 2,011,214.95		\$ 940,703.90	\$ 682,165.85	\$ 1,622,869.75

L. Anthony Construction				HMC LLC				JB Contractors			
Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)	Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)	Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)
	\$ 7,000.00	\$ 20,000.00	\$ 27,000.00		\$ 45,000.00	\$ 45,000.00	\$ 90,000.00		\$ 30,400.00	\$ 31,000.00	\$ 61,400.00
	\$ 2,000.00	\$ 2,000.00	\$ 4,000.00		\$ 6,000.00	\$ 4,000.00	\$ 10,000.00		\$ 1,900.00	\$ 1,900.00	\$ 3,800.00
\$ 8.00	\$ 58,344.00	\$ 7,056.00	\$ 65,400.00	\$ 6.00	\$ 43,758.00	\$ 5,292.00	\$ 49,050.00	\$ 4.80	\$ 35,006.40	\$ 4,233.60	\$ 39,240.00
\$ 8.00	\$ 44,496.00	\$ 71,440.00	\$ 115,936.00	\$ 7.00	\$ 38,934.00	\$ 62,510.00	\$ 101,444.00	\$ 10.90	\$ 60,625.80	\$ 97,337.00	\$ 157,962.80
\$ 12.00	\$ 1,200.00	\$ 1,200.00	\$ 2,400.00	\$ 30.00	\$ 3,000.00	\$ 3,000.00	\$ 6,000.00	\$ 10.90	\$ 1,090.00	\$ 1,090.00	\$ 2,180.00
\$ 20.00	\$ 3,000.00	\$ 1,000.00	\$ 4,000.00	\$ 41.00	\$ 6,150.00	\$ 2,050.00	\$ 8,200.00	\$ 28.00	\$ 4,200.00	\$ 1,400.00	\$ 5,600.00
\$ 100.00	\$ 1,890.00	\$ 420.00	\$ 2,310.00	\$ 2,800.00	\$ 52,920.00	\$ 11,760.00	\$ 64,680.00	\$ 940.00	\$ 17,766.00	\$ 3,948.00	\$ 21,714.00
\$ 5.00	\$ 28,310.00	\$ 45,150.00	\$ 73,460.00	\$ 2.50	\$ 14,155.00	\$ 22,575.00	\$ 36,730.00	\$ 2.00	\$ 11,324.00	\$ 18,060.00	\$ 29,384.00
\$ 1.00	\$ 1,000.00	\$ 600.00	\$ 1,600.00	\$ 2.50	\$ 2,500.00	\$ 1,500.00	\$ 4,000.00	\$ 2.00	\$ 2,000.00	\$ 1,200.00	\$ 3,200.00
\$ 100.00	\$ 10,800.00	\$ 6,500.00	\$ 17,300.00	\$ 75.00	\$ 8,100.00	\$ 4,875.00	\$ 12,975.00	\$ 70.00	\$ 7,560.00	\$ 4,550.00	\$ 12,110.00
\$ 53.00	\$ 386,529.00	\$ 46,746.00	\$ 433,275.00	\$ 48.00	\$ 350,064.00	\$ 42,336.00	\$ 392,400.00	\$ 48.80	\$ 355,898.40	\$ 43,041.60	\$ 398,940.00
\$ 53.00	\$ 294,786.00	\$ 473,290.00	\$ 768,076.00	\$ 46.00	\$ 255,852.00	\$ 410,780.00	\$ 666,632.00	\$ 51.25	\$ 285,052.50	\$ 457,662.50	\$ 742,715.00
\$ 60.00	\$ 6,000.00	\$ 6,000.00	\$ 12,000.00	\$ 108.00	\$ 10,800.00	\$ 10,800.00	\$ 21,600.00	\$ 136.00	\$ 13,600.00	\$ 13,600.00	\$ 27,200.00
\$ 6.00	\$ 462.00	\$ 198.00	\$ 660.00	\$ 10.50	\$ 808.50	\$ 346.50	\$ 1,155.00	\$ 10.00	\$ 770.00	\$ 330.00	\$ 1,100.00
\$ 6.00	\$ 4,050.00	\$ 1,800.00	\$ 5,850.00	\$ 15.00	\$ 10,125.00	\$ 4,500.00	\$ 14,625.00	\$ 6.00	\$ 4,050.00	\$ 1,800.00	\$ 5,850.00
\$ 5.00	\$ 36,840.00	\$ 4,575.00	\$ 41,415.00	\$ 4.45	\$ 32,787.60	\$ 4,071.75	\$ 36,859.35	\$ 5.30	\$ 39,050.40	\$ 4,849.50	\$ 43,899.90
\$ 30.00	\$ 1,800.00	\$ 600.00	\$ 2,400.00	\$ 50.00	\$ 3,000.00	\$ 1,000.00	\$ 4,000.00	\$ 39.00	\$ 2,340.00	\$ 780.00	\$ 3,120.00
\$ 200.00	\$ 800.00	\$ 400.00	\$ 1,200.00	\$ 300.00	\$ 1,200.00	\$ 600.00	\$ 1,800.00	\$ 300.00	\$ 1,200.00	\$ 600.00	\$ 1,800.00
\$ 1,400.00	\$ 5,600.00	\$ 2,800.00	\$ 8,400.00	\$ 1,250.00	\$ 5,000.00	\$ 2,500.00	\$ 7,500.00	\$ 900.00	\$ 3,600.00	\$ 1,800.00	\$ 5,400.00
\$ 500.00	\$ 2,000.00	\$ 1,000.00	\$ 3,000.00	\$ 800.00	\$ 3,200.00	\$ 1,600.00	\$ 4,800.00	\$ 600.00	\$ 2,400.00	\$ 1,200.00	\$ 3,600.00
\$ 150.00	\$ 3,750.00	\$ 1,350.00	\$ 5,100.00	\$ 250.00	\$ 6,250.00	\$ 2,250.00	\$ 8,500.00	\$ 200.00	\$ 5,000.00	\$ 1,800.00	\$ 6,800.00
\$ 100.00	\$ 2,500.00	\$ 900.00	\$ 3,400.00	\$ 150.00	\$ 3,750.00	\$ 1,350.00	\$ 5,100.00	\$ 150.00	\$ 3,750.00	\$ 1,350.00	\$ 5,100.00
\$ 200.00	\$ 6,000.00	\$ 2,800.00	\$ 8,800.00	\$ 100.00	\$ 3,000.00	\$ 1,400.00	\$ 4,400.00	\$ 150.00	\$ 4,500.00	\$ 2,100.00	\$ 6,600.00
\$ 12.00	\$ 42,444.00	\$ 10,176.00	\$ 52,620.00	\$ 11.00	\$ 38,907.00	\$ 9,328.00	\$ 48,235.00	\$ 14.50	\$ 51,286.50	\$ 12,296.00	\$ 63,582.50
\$ 75.00	\$ 1,500.00	\$ 300.00	\$ 1,800.00	\$ 300.00	\$ 6,000.00	\$ 1,200.00	\$ 7,200.00	\$ 200.00	\$ 4,000.00	\$ 800.00	\$ 4,800.00
\$ 17.00	\$ 323.00	\$ 323.00	\$ 646.00	\$ 55.00	\$ 1,045.00	\$ 1,045.00	\$ 2,090.00	\$ 28.00	\$ 532.00	\$ 532.00	\$ 1,064.00
\$ 17.00	\$ 238.00	\$ 238.00	\$ 476.00	\$ 55.00	\$ 770.00	\$ 770.00	\$ 1,540.00	\$ 28.00	\$ 392.00	\$ 392.00	\$ 784.00
\$ 6.00	\$ 576.00	\$ 360.00	\$ 936.00	\$ 15.00	\$ 1,440.00	\$ 900.00	\$ 2,340.00	\$ 4.60	\$ 441.60	\$ 276.00	\$ 717.60
\$ 6.00	\$ 744.00	\$ 288.00	\$ 1,032.00	\$ 15.00	\$ 1,860.00	\$ 720.00	\$ 2,580.00	\$ 4.60	\$ 570.40	\$ 220.80	\$ 791.20
\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 12,000.00	\$ 19,000.00	\$ 19,000.00	\$ 19,000.00	\$ 38,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00
	\$ 21,000.00	\$ 17,500.00	\$ 38,500.00		\$ 35,000.00	\$ 35,000.00	\$ 70,000.00		\$ 57,400.00	\$ 52,500.00	\$ 109,900.00

	\$ 981,982.00	\$ 733,010.00	\$ 1,714,992.00		\$ 1,010,376.10	\$ 714,059.25	\$ 1,724,435.35		\$ 1,022,706.00	\$ 777,649.00	\$ 1,800,355.00
	\$ 960,982.00	\$ 715,510.00	\$ 1,676,492.00		\$ 975,376.10	\$ 679,059.25	\$ 1,654,435.35		\$ 965,306.00	\$ 725,149.00	\$ 1,690,455.00

Cipparrone Contracting				Audia Concrete				Merlo Construction			
Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)	Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)	Unit Price (\$)	Total 2018 Cost (\$)	Total 2019 Cost (\$)	Total 2018 + 2019 Cost (\$)
	\$ 45,000.00	\$ 30,000.00	\$ 75,000.00		\$ 20,000.00	\$ 20,000.00	\$ 40,000.00		\$ 50,000.00	\$ 30,000.00	\$ 80,000.00
	\$ 7,500.00	\$ 7,500.00	\$ 15,000.00		\$ 6,000.00	\$ 4,100.00	\$ 10,100.00		\$ 2,600.00	\$ 2,000.00	\$ 4,600.00
\$ 7.40	\$ 53,968.20	\$ 6,526.80	\$ 60,495.00	\$ 7.00	\$ 51,051.00	\$ 6,174.00	\$ 57,225.00	\$ 17.00	\$ 123,981.00	\$ 14,994.00	\$ 138,975.00
\$ 15.50	\$ 86,211.00	\$ 138,415.00	\$ 224,626.00	\$ 7.00	\$ 38,934.00	\$ 62,510.00	\$ 101,444.00	\$ 26.00	\$ 144,612.00	\$ 232,180.00	\$ 376,792.00
\$ 22.00	\$ 2,200.00	\$ 2,200.00	\$ 4,400.00	\$ 7.00	\$ 700.00	\$ 700.00	\$ 1,400.00	\$ 32.00	\$ 3,200.00	\$ 3,200.00	\$ 6,400.00
\$ 60.00	\$ 9,000.00	\$ 3,000.00	\$ 12,000.00	\$ 40.00	\$ 6,000.00	\$ 2,000.00	\$ 8,000.00	\$ 32.00	\$ 4,800.00	\$ 1,600.00	\$ 6,400.00
\$ 650.00	\$ 12,285.00	\$ 2,730.00	\$ 15,015.00	\$ 500.00	\$ 9,450.00	\$ 2,100.00	\$ 11,550.00	\$ 1,500.00	\$ 28,350.00	\$ 6,300.00	\$ 34,650.00
\$ 4.25	\$ 24,063.50	\$ 38,377.50	\$ 62,441.00	\$ 6.00	\$ 33,972.00	\$ 54,180.00	\$ 88,152.00	\$ 1.50	\$ 8,493.00	\$ 13,545.00	\$ 22,038.00
\$ 3.00	\$ 3,000.00	\$ 1,800.00	\$ 4,800.00	\$ 1.00	\$ 1,000.00	\$ 600.00	\$ 1,600.00	\$ 2.25	\$ 2,250.00	\$ 1,350.00	\$ 3,600.00
\$ 65.00	\$ 7,020.00	\$ 4,225.00	\$ 11,245.00	\$ 100.00	\$ 10,800.00	\$ 6,500.00	\$ 17,300.00	\$ 130.00	\$ 14,040.00	\$ 8,450.00	\$ 22,490.00
\$ 43.25	\$ 315,422.25	\$ 38,146.50	\$ 353,568.75	\$ 66.00	\$ 481,338.00	\$ 58,212.00	\$ 539,550.00	\$ 50.00	\$ 364,650.00	\$ 44,100.00	\$ 408,750.00
\$ 45.50	\$ 253,071.00	\$ 406,315.00	\$ 659,386.00	\$ 55.00	\$ 305,910.00	\$ 491,150.00	\$ 797,060.00	\$ 53.00	\$ 294,786.00	\$ 473,290.00	\$ 768,076.00
\$ 55.50	\$ 5,550.00	\$ 5,550.00	\$ 11,100.00	\$ 75.00	\$ 7,500.00	\$ 7,500.00	\$ 15,000.00	\$ 70.00	\$ 7,000.00	\$ 7,000.00	\$ 14,000.00
\$ 4.00	\$ 308.00	\$ 132.00	\$ 440.00	\$ 9.00	\$ 693.00	\$ 297.00	\$ 990.00	\$ 9.00	\$ 693.00	\$ 297.00	\$ 990.00
\$ 9.50	\$ 6,412.50	\$ 2,850.00	\$ 9,262.50	\$ 6.00	\$ 4,050.00	\$ 1,800.00	\$ 5,850.00	\$ 7.00	\$ 4,725.00	\$ 2,100.00	\$ 6,825.00
\$ 10.75	\$ 79,206.00	\$ 9,836.25	\$ 89,042.25	\$ 2.00	\$ 14,736.00	\$ 1,830.00	\$ 16,566.00	\$ 8.50	\$ 62,628.00	\$ 7,777.50	\$ 70,405.50
\$ 35.00	\$ 2,100.00	\$ 700.00	\$ 2,800.00	\$ 100.00	\$ 6,000.00	\$ 2,000.00	\$ 8,000.00	\$ 38.00	\$ 2,280.00	\$ 760.00	\$ 3,040.00
\$ 550.00	\$ 2,200.00	\$ 1,100.00	\$ 3,300.00	\$ 1.00	\$ 4.00	\$ 2.00	\$ 6.00	\$ 300.00	\$ 1,200.00	\$ 600.00	\$ 1,800.00
\$ 1,500.00	\$ 6,000.00	\$ 3,000.00	\$ 9,000.00	\$ 1.00	\$ 4.00	\$ 2.00	\$ 6.00	\$ 2,000.00	\$ 8,000.00	\$ 4,000.00	\$ 12,000.00
\$ 450.00	\$ 1,800.00	\$ 900.00	\$ 2,700.00	\$ 600.00	\$ 2,400.00	\$ 1,200.00	\$ 3,600.00	\$ 600.00	\$ 2,400.00	\$ 1,200.00	\$ 3,600.00
\$ 300.00	\$ 7,500.00	\$ 2,700.00	\$ 10,200.00	\$ 600.00	\$ 15,000.00	\$ 5,400.00	\$ 20,400.00	\$ 400.00	\$ 10,000.00	\$ 3,600.00	\$ 13,600.00
\$ 275.00	\$ 6,875.00	\$ 2,475.00	\$ 9,350.00	\$ 500.00	\$ 12,500.00	\$ 4,500.00	\$ 17,000.00	\$ 225.00	\$ 5,625.00	\$ 2,025.00	\$ 7,650.00
\$ 200.00	\$ 6,000.00	\$ 2,800.00	\$ 8,800.00	\$ 100.00	\$ 3,000.00	\$ 1,400.00	\$ 4,400.00	\$ 50.00	\$ 1,500.00	\$ 700.00	\$ 2,200.00
\$ 10.25	\$ 36,254.25	\$ 8,692.00	\$ 44,946.25	\$ 15.00	\$ 53,055.00	\$ 12,720.00	\$ 65,775.00	\$ 15.00	\$ 53,055.00	\$ 12,720.00	\$ 65,775.00
\$ 165.00	\$ 3,300.00	\$ 660.00	\$ 3,960.00	\$ 20.00	\$ 400.00	\$ 80.00	\$ 480.00	\$ 375.00	\$ 7,500.00	\$ 1,500.00	\$ 9,000.00
\$ 25.00	\$ 475.00	\$ 475.00	\$ 950.00	\$ 25.00	\$ 475.00	\$ 475.00	\$ 950.00	\$ 25.00	\$ 475.00	\$ 475.00	\$ 950.00
\$ 25.00	\$ 350.00	\$ 350.00	\$ 700.00	\$ 25.00	\$ 350.00	\$ 350.00	\$ 700.00	\$ 25.00	\$ 350.00	\$ 350.00	\$ 700.00
\$ 4.00	\$ 384.00	\$ 240.00	\$ 624.00	\$ 5.00	\$ 480.00	\$ 300.00	\$ 780.00	\$ 5.00	\$ 480.00	\$ 300.00	\$ 780.00
\$ 4.00	\$ 496.00	\$ 192.00	\$ 688.00	\$ 5.00	\$ 620.00	\$ 240.00	\$ 860.00	\$ 8.00	\$ 992.00	\$ 384.00	\$ 1,376.00
\$ 40,000.00	\$ 40,000.00	\$ 40,000.00	\$ 80,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00	\$ 7,500.00	\$ 7,500.00	\$ 17,500.00	\$ 25,000.00
	\$ 17,500.00	\$ 17,500.00	\$ 35,000.00		\$ 66,500.00	\$ 52,500.00	\$ 119,000.00		\$ 52,500.00	\$ 42,700.00	\$ 95,200.00

	\$ 1,041,451.70	\$ 779,388.05	\$ 1,820,839.75		\$ 1,153,922.00	\$ 801,822.00	\$ 1,955,744.00		\$ 1,270,665.00	\$ 936,997.50	\$ 2,207,662.50
	\$ 1,023,951.70	\$ 761,888.05	\$ 1,785,839.75		\$ 1,087,422.00	\$ 749,322.00	\$ 1,836,744.00		\$ 1,218,165.00	\$ 894,297.50	\$ 2,112,462.50

BID
2018 – 2019 Concrete Panel Replacement Program

Bid of GREAT LAKES Contracting Solutions, LLC hereinafter called Bidder, organized and existing under the laws of or a resident of the State of Michigan, doing business as a Limited Liability Corporation *.
 Insert as applicable: “a corporation”, “a partnership” or “an individual”.

TO THE CITY OF NOVI, MICHIGAN, hereinafter called OWNER:

The undersigned as Bidder hereby declares: that this Bid is made in good faith without fraud or collusion with any person or persons bidding on the same Contract; that the Bidder has read and examined the Advertisement for Bids, Instructions to Bidders, Bid, General Conditions, Supplementary Conditions, Agreement, Forms of Bond, Specifications and Drawings, as prepared by the ENGINEER, and understands all of the same; that the Bidder of its representative has made personal investigation at the site and has become fully familiar with regard to the conditions to be met in the execution of this Contract, and the undersigned proposes to furnish all labor, materials, tools, power, transportation, and construction equipment necessary for the construction of the Project and performing related work in full accordance with the aforesaid Contract Documents, including any and all Addenda officially issued, their receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
<u>1</u>	<u>5/11/2018</u>

Bidders shall enter the **SAME UNIT PRICE** for items which appear in both the 2018 and 2019 bid sections, excepting for lump sum items and the Crew Days item.

The Contract will be awarded to the lowest responsive, responsible Bidder based on the unit prices for all Work specified. The Bidder agrees to complete the Project for the following unit prices:

2018 CONCRETE PANEL REPLACEMENT PROGRAM BID

Item No.	Item Description	Unit	Quantity	Unit Price	Total Price
1	Mobilization, Max 10%	LS	1	\$ 18,000.00	\$ 18,000.00
2	Pre-Construction Audio-Visual	LS	1	\$ 4,800.00	\$ 4,800.00
3	Pavt, Rem	Syd	7293	\$ 7.80	\$ 56,885.40
4	Pavt, Repair, Rem	Syd	5562	\$ 9.50	\$ 52,839.00
5	Pavt, Repair, Rem, Special	Syd	100	\$ 27.50	\$ 2,750.00
6	Undercut, Special, 1x3	Cyd	150	\$ 40.00	\$ 6,000.00
7	Roadway Grading	Sta	18.9	\$ 1200.00	\$ 22,680.00
8	Aggregate Base, Conditioning	Syd	5662	\$ 2.50	\$ 14,155.00



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2018 CONCRETE PANEL REPLACEMENT PROGRAM BID

Item No.	Item Description	Unit	Quantity	Unit Price	Total Price
9	Erosion Control, Silt Fence	Ft	1000	\$ 2.50	\$ 2,500. ⁰⁰
10	Erosion Control, Inlet Protection, Fabric Drop	Ea	108	\$ 100.00	\$ 10,800. ⁰⁰
11	Conc Pavt with Integral Curb, Nonreinf, 8 inch	Syd	7293	\$ 45.00	\$328,185. ⁰⁰
12	Concrete Pavt, Full Depth Slab Repair	Syd	5562	\$ 49.00	\$272,538. ⁰⁰
13	Longit Joint Repair, 30 Inch Wide, Full Depth	Syd	100	\$ 53.20	\$ 5,320. ⁰⁰
14	Sidewalk, Rem	Syd	77	\$ 7.50	\$ 577. ⁵⁰
15	Sidewalk Ramp, Conc, 6 inch	Sft	675	\$ 6.75	\$ 4,556. ²⁵
16	Aggregate Base, 21AA, Limestone, 4 inch	Syd	7368	\$ 7.25	\$53,418. ⁰⁰
17	Detectable Warning Surface	Ft	60	\$35.00	\$ 2,100. ⁰⁰
18	Dr Structure, Rem	Ea	4	\$ 375.00	\$ 1,500. ⁰⁰
19	Dr Structure, 24 inch dia	Ea	4	\$ 950.00	\$ 3,800. ⁰⁰
20	Dr Structure Cover, Type J	Ea	4	\$ 775.00	\$ 3,100. ⁰⁰
21	Dr Structure Cover, Adj, Case 1	Ea	25	\$ 375.00	\$ 9,375. ⁰⁰
22	Point-Up Drainage Structure	Ea	25	\$ 250.00	\$ 6,250. ⁰⁰
23	Reconstruct Drainage Structure	Ft	30	\$ 100.00	\$ 3,000. ⁰⁰
24	Underdrain, Subgrade, Open-Graded, 6 inch	Ft	3537	\$ 11.75	\$41,559. ⁷⁵
25	Dr Structure Tap, 6 inch	Ea	20	\$ 100.00	\$ 2,000. ⁰⁰
26	Sign, Type IIIB, R1-1	Sft	19	\$ 25.00	\$ 475. ⁰⁰
27	Sign, Type IIIB, R1-2	Sft	14	\$ 25.00	\$ 350. ⁰⁰
28	Pvt Mrkg, Waterborne 12 inch, Stop Bar, Special	Ft	96	\$ 4.50	\$ 432. ⁰⁰
29	Pvt Mrkg, Waterborne 12 inch, Crosswalk, Special	Ft	124	\$ 4.50	\$ 558. ⁰⁰
30	Maintaining Traffic	LS	1	\$10,200. ⁰⁰	\$10,200. ⁰⁰
32	Crew Days	Day	45	\$700.00	31,500. ⁰⁰
TOTAL 2018 CONCRETE PANEL REPLACEMENT PROGRAM BID:					\$ 972,203.90



2019 CONCRETE PANEL REPLACEMENT PROGRAM BID

Item No.	Item Description	Unit	Quantity	Unit Price	Total Price
1	Mobilization, Max 10%	LS	1	\$ 20,000. ⁰⁰	\$ 20,000. ⁰⁰
2	Pre-Construction Audio-Visual	LS	1	\$ 4,800. ⁰⁰	\$ 4,800. ⁰⁰ - JW
3	Pavt, Rem	Syd	882	\$ 7.80	\$ 6,879. ⁰⁰ JW
4	Pavt, Repair, Rem	Syd	8930	\$ 9.50	\$ 84,835. ⁰⁰ JW
5	Pavt, Repair, Rem, Special	Syd	100	\$ 27.50	\$ 2,750. ⁰⁰
6	Undercut, Special, 1x3	Cyd	50	\$ 40.00	\$ 2,000. ⁰⁰
7	Roadway Grading	Sta	4.2	\$ 1,200. ⁰⁰	\$ 5,040. ⁰⁰ JW
8	Aggregate Base, Conditioning	Syd	9030	\$ 2.50	\$ 22,575. ⁰⁰
9	Erosion Control, Silt Fence	Ft	600	\$ 2.50	\$ 1,500. ⁰⁰
10	Erosion Control, Inlet Protection, Fabric Drop	Ea	65	\$ 100.00	\$ 6,500. ⁰⁰
11	Conc Pavt with Integral Curb, Nonreinf, 8 inch	Syd	882	\$ 45.00	\$ 39,690. ⁰⁰ JW
12	Concrete Pavt, Full Depth Slab Repair	Syd	8930	\$ 49.00	\$ 437,570. ⁰⁰ JW
13	Longit Joint Repair, 30 Inch Wide, Full Depth	Syd	100	\$ 53.20	\$ 5,320. ⁰⁰ JW
14	Sidewalk, Rem	Syd	33	\$ 7.50	\$ 247. ⁵⁰
15	Sidewalk Ramp, Conc, 6 inch	Sft	300	\$ 7.00	\$ 2,100. ⁰⁰
16	Aggregate Base, 21AA, Limestone, 4 inch	Syd	915	\$ 7.50	\$ 6,862. ⁵⁰
17	Detectable Warning Surface	Ft	20	\$ 35.00	\$ 700. ⁰⁰
18	Dr Structure, Rem	Ea	2	\$ 375.00	\$ 750. ⁰⁰
19	Dr Structure, 24 inch dia	Ea	2	\$ 950.00	\$ 1,900. ⁰⁰
20	Dr Structure Cover, Type J	Ea	2	\$ 775.00	\$ 1,550. ⁰⁰ JW
21	Dr Structure Cover, Adj, Case 1	Ea	9	\$ 375.00	\$ 3,375. ⁰⁰
22	Point-Up Drainage Structure	Ea	9	\$ 250.00	\$ 2,250. ⁰⁰ JW
23	Reconstruct Drainage Structure	Ft	14	\$ 100.00	\$ 1,400. ⁰⁰
24	Underdrain, Subgrade, Open-Graded, 6 inch	Ft	848	\$ 11.00	\$ 9,328. ⁰⁰ JW
25	Dr Structure Tap, 6 inch	Ea	4	\$ 100.00	\$ 400. ⁰⁰
26	Sign, Type IIIB, R1-1	Sft	19	\$ 25	\$ 475. ⁰⁰



2019 CONCRETE PANEL REPLACEMENT PROGRAM BID

Item No.	Item Description	Unit	Quantity	Unit Price	Total Price
27	Sign, Type IIIB, R1-2	Sft	14	\$25.00	\$ 350. ⁰⁰
28	Pvt Mrkg, Waterborne 12 inch, Stop Bar, Special	Ft	60	\$4.50	\$ 270. ⁰⁰ JW
29	Pvt Mrkg, Waterborne 12 inch, Crosswalk, Special	Ft	48	\$4.50	\$ 216. ⁰⁰ JW
30	Maintaining Traffic	LS	1	\$10,200. ⁰⁰	\$10,200. ⁰⁰ JW
32	Crew Days	Day	40	\$700.00	28,000. ⁰⁰
TOTAL 2019 CONCRETE PANEL REPLACEMENT PROGRAM BID:					\$ 710,165.85 JW

BID SUMMARY

2018 Concrete Panel Replacement Program	\$972,203.90
2019 Concrete Panel Replacement Program	\$710,165.85 JW
TOTAL BID	\$1,682,369.75 JW

Bidders must provide unit prices for all items and a quantity for the Crew Day Item.

The City's intent is to award to the lowest responsible bidder. Funding for the project is limited and the City may elect to eliminate roadways from the contract, reduce the length of roadways included in the project, or potentially add roadways with similar work to the project in order to match the available budget.

If the foregoing Bid shall be accepted by the OWNER, the undersigned agrees to enter into the attached form of Agreement within ten (10) days after receiving notice of such acceptance, will furnish the OWNER satisfactory bonds and certificates of insurance coverage, and will complete the Project, at the price and within the time stated in this Bid.

The undersigned further agrees that if the foregoing Bid shall be accepted, work will commence immediately after the Contract has been awarded, the Agreement executed, and a Notice to Proceed received.

No work may begin prior to June 18, 2018. No work may begin prior to the formal award of contract.

Work for the 2019 roadways may not begin until June 18, 2019.

**Substantial Completion for 2018 roadways shall be no later than October 20, 2018.
Substantial Completion for 2019 roadways shall be no later than October 19, 2019.**

**Final Completion for 2018 roadways shall be no later than November 3, 2018.
Final Completion for 2019 roadways shall be no later than November 2, 2019.**



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The undersigned attaches hereto its Bid security, as required by the Advertisement for Bids and Instructions to Bidders. The undersigned agrees that in case it shall fail to fulfill its obligations under the foregoing Bid, and/or shall fail to furnish bonds, as specified, the OWNER may, at its option determine that the undersigned has abandoned its rights and interests in such Contract and that its Bid security accompanying its Bid; has been forfeited to the said OWNER, but otherwise the Bid security shall be returned to the undersigned upon the execution of the Contract and the acceptance of the bonds.

The undersigned also agrees that for each and every calendar day that he may be in default of any of the completion dates listed above, the OWNER will suffer a damage of One Thousand Three Hundred Dollars (\$1,300.00) per day, and said OWNER shall be compensated therefore at the rate as liquidated damages in accordance with the Agreement.

In submitting this Bid, it is understood that the right is reserved by the OWNER to accept any bid, to reject any or all Bids, and to waive irregularities in bidding in the interest of the OWNER.

SUBMITTED on 5/14/18
Date*

2300 E. Dinburgh
Street*

Waterford, MI 48321
City, State, ZIP*

313-962-0400
Telephone Number*

313-962-0404
Facsimile Number*

GREAT LAKES CONTRACTING
SOLUTIONS, LLC
BY: _____
Name of Bidder*

[Signature]
Signature

Philip A. Sakallan member/owner
Name and Title of Signatory*

*Typed or printed in ink.

