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September 16, 2014

Paul M. Davis, PE, Assistant Director
Department of Public Services
City of Rochester Hills
1000 Rochester Hills Drive
Rochester Hills, MI

Re: Additional Services - Professional Engineering Services Agreement 004
Hamlin Road Improvement Project – Hamlin Court to Dequindre Road

Dear Mr. Davis:

As discussed with City staff at the progress meetings, there have been changes to the project that have increased the level of OHM's design effort from what was anticipated in the April 10, 2013 agreement. This letter summarizes those changes and outlines our request for additional compensation for the increased scope of services.

The following items have been, or are proposed to be, provided:

- **Traffic Signal Modification:** Based on the agreed staging plan, the project will require the temporary modification of the traffic signal at the intersection of Rochester and Hamlin roads. The agreement excluded this design effort. The current stage construction plan requires the placement of temporary signal heads during the construction of the road west of Rochester Road. The design effort, coordination with MDOT, and permitting is estimated at 24 hours with an added fee of \$2,500.
- **ROW Related Items:**
 - OHM anticipated in the proposal that the non-motorized path would curve around objects desired to be kept (i.e. trees, landscaping etc.) and attempt to stay within the existing ROW where possible. After Base Plans, the City indicated that it was not desired to curve the path due to issues with winter maintenance and the ability for trees to survive if cuts and fills were required to construct the path. The City requested a uniform offset from the road for the pathway. As requested, OHM designed the pathway to be placed 1' off of the proposed 60' ROW line. This new path alignment required a total of 49 total easement acquisitions versus the 25



estimated parcels in the agreement. OHM has been requested to prepare 24 additional easement acquisition drawings. In addition, as the City's ROW consultant is now negotiating for the additional ROW and easements required to build the pathway for the project, several design modifications have resulted from these negotiations. Additional effort has been required to assist the ROW consultant in the easement acquisition phase. This work includes modifying construction plans to minimize impacts and revising the type and size of easements to minimize acquisition cost. To date, 17 previously prepared easement documents have been modified and this process is still ongoing. OHM's original cost to prepare the 25 parcel drawings, and create ROW plans equated to \$882/parcel or 215 manhours. The cost for 24 additional acquisition drawings and the modification of the 17 original drawings is 200 manhours for an added fee of \$21,200.

- Based on early concept discussions, the agreement budgeted ordering 25 title search documents for a pass through cost of \$6,250. To date the project has required 49 title search documents for a cost of \$12,350. This is an additional \$6,100 in pass through cost. It should be noted that we have not used the GPS Rental cost for survey as indicated in the agreement, so this can offset \$5,600 of title search cost. The net increase to direct cost is \$500.

- Drainage: The agreement assumed the outlet for drainage of Hamlin Road west of Rochester Road would be a distance of no more than 200' from Hamlin Road. The drainage study, with input from City staff, determined the outlet for the Hamlin storm system will be over 1000' south of Hamlin along the west side of Rochester Road. OHM was requested to survey, design and coordinate utility locations for a distance of 1,150' south of Hamlin to the selected outlet location. This extra work involves an estimated 80 manhours with an added fee of \$8,100 (including survey).

- Water main connection at Rochester Road: The City requested a new water main loop connection be made as part of the Hamlin project on the southeast corner of Hamlin and Rochester Road. Upon preliminary review, the connection appears to be approximately 27 feet of water main, however the location appears to have several items above and below the surface that will require investigation. This will also need some additional coordination with MDOT for the Rochester Road ROW permit. We propose a budget of \$4,000 be set up to investigate and design this connection

OHM will hold off with the traffic signal modification design at Rochester Road and the water main work at the SE corner of Hamlin and Rochester Road until we are authorized. The total estimated



additional cost is \$36,300. This amount increases the agreed not-to-exceed compensation from \$449,915.45 to \$486,205.45.

We look forward to a successful completion of the design phase of work. Please contact me at 734-466-4441 should you have any questions or wish to discuss this letter.

Sincerely,
OHM Advisors

A handwritten signature in black ink that reads "Mark Loch". The signature is written in a cursive, flowing style.

Mark Loch, PE
Project Manager

Cc: Alan Schneck, PE, DPS Director

