

March 25, 2021

City of Rochester Hills
1000 Rochester Hills Dr.
City of Rochester Hills, MI 48309-3033

Attn: Paul Davis, P.E.
City Engineer / Deputy DPS Director

Re: Waterview Drive Reconstruction
Auburn Road to Leach Road
Proposal for Design Engineering Services

HRC Job No. 20210292

Dear Mr. Davis:

We are pleased to offer this proposal to perform design engineering services for the Waterview Drive Reconstruction. Our understanding of the work involved is based on conversations held with your office. We propose to complete this work in accordance with our existing Engineering Service Agreement and the following project specific information.

Project Description:

The City's Capital Improvement Plan (CIP) has road construction scheduled for Waterview Drive in the City's Local Development Finance Authority (LDFA) district for 2022 with an estimated total project cost of \$2.5 million. Per the CIP, the project consists of pavement reconstruction of approximately 3,200 feet of existing 36-foot wide (back/curb to back/curb) asphalt pavement and concrete curb and gutter. The project also proposes to construct a new 5-foot wide concrete sidewalk along one side of Waterview.

The anticipated project scope involves:

- Reconstruction of existing HMA roadway
- Replacement of concrete curb and gutter
- Minor modifications to the existing storm water drainage
- Review existing reports or videos of the existing sanitary and storm sewers to determine if any repairs should be included with the project
- New 5-foot wide concrete sidewalk on one side of the road, recommendation for which side to be provided
- New 5-foot sidewalk along westerly side of Leach Road from Waterview north to existing pathway on south side of Adams Road
- Structure adjustment and reconstructions as required
- Rehabilitation of approaches within the ROW, as required
- Coordination and communication with existing property owners, including meetings to review the maintenance of traffic plans and options

Geotechnical investigation and soil borings will be provided through the City and HRC will coordinate their efforts and review all findings.

Delhi Township
2101 Aurelius Rd.
Suite 2A
Holt, MI 48842
517-694-7760

Detroit
535 Griswold St.
Buhl Building, Ste 1650
Detroit, MI 48226
313-965-3330

Grand Rapids
1925 Breton Road SE
Suite 100
Grand Rapids, MI 49506
616-454-4286

Howell
105 W. Grand River
Howell, MI 48843
517-552-9199

Jackson
401 S. Mechanic St.
Suite B
Jackson, MI 49201
517-292-1295

Kalamazoo
834 King Highway
Suite 107
Kalamazoo, MI 49001
269-665-2005

Lansing
215 S. Washington SQ
Suite D
Lansing, MI 48933
517-292-1488

Scope of Services:

Topographic Survey:

HRC will perform the topographic survey. General limits are:

- Waterview Drive: ROW limits
- Leach Road: west side of road, edge of metal to ROW
- Survey all utility structures including ATT, watermain, sanitary and storm sewers. This includes collecting invert and condition information at all watermain, sanitary and storm manholes.
- Survey and tag trees in accordance with the City's requirements
- Intersections will be surveyed approx.. 50 ft beyond the spring points of the radii and driveways will be surveyed approx. 10 ft beyond the ROW.

Design Documents:

Documents will be prepared for a bid opening in early 2022 to ensure the project will be constructed and completed in 2022. HRC anticipates a February or March 2022 local bid letting with construction starting in April 2022. HRC proposes the following schedule:

- Authorization: Spring 2021
- Topographic Survey & Utility Mapping Complete: June 2021
- Base Plans, Prelim Cost Estimate & Business Coordination Meeting: August 2021
- Prepare & Submit Preliminary Plans: September 2021
- Prepare & Submit Final Plans: November 2021
- Prepare & Submit Bid Documents: January 2022
- Bid Letting & Award: Feb/Mar 2022

Miscellaneous Design Elements:

As shown in Attachment A, HRC has included several key tasks throughout the design phase to prepare the overall budget for this proposal. HRC will prepare the plans, specifications, and construction cost estimates for the roadway and sidewalk work. This will include removal, plan and profile sheets as required. HRC has assumed a new vertical alignment may be necessary but ideally it will follow the existing alignment with any required corrections to improve drainage flow and running slopes. We anticipate only minor changes to the horizontal alignment of the roadway, if required. As part of the new sidewalk, HRC anticipates additional design detail for reconstructing drive approaches to meet ADA guidelines. In addition to the items noted herein and in Attachment A, HRC will also prepare the following plans and design elements:

- SESC plans
- Maintenance of Traffic (MOT) plans
- Detailed grading design for ADA sidewalk ramps
- Detailed grading as required for intersections
- Driveway grading and Slope Stake Line (SSL)
- Permanent signing & pavement marking plans
- Minor storm sewer improvements (i.e. new lateral sewers or additional catch basins at low points)
- Review existing reports and televised records of the existing sewers and include any repairs that may require open cuts of the roadway

Utility coordination:

HRC will request utility data from the companies, including municipal utilities, in the project area and add the necessary line work in plan and profile to the plans. HRC will include additional depth information to be provided by the respective utility companies and will schedule and attend meetings to coordinate existing information and potential conflicts. HRC has assumed that municipal facilities will not require relocation and has not included design and permitting of these facilities in this scope of work.

For clarity, the following items are not included as part of our proposal:

- New street lighting design
- Design of new irrigation or specialty signs (provisions for protecting/replacing existing irrigation will be included)
- New traffic signal design or upgrades to existing traffic signals
- Sanitary sewer or water main design
- ROW / easement documents and acquisitions
- MDOT LAP Design / Bid Letting requirements (NEPA, SHPO Coord., Programming)
- HRC assumes the existing drainage outlets are adequate and new trunkline / outlet sewers will not be required
- HRC has not included any sewer televising but will review existing or city-provided records to determine if any repairs should be included in the project.

Ms. Lia Michaels, P.E., PTOE, will be HRC's Project Manager for the Waterview Drive Project based on her experience working with City staff and managing comparable projects. Charles Hart, P.E. will provide project oversight, staffing coordination, and communication as required to ensure a successful project. HRC's road design team has extensive experience working on comparable roadway reconstruction projects, including ones in commercial areas where access during construction will be carefully considered and coordinated. The project team will also communicate regularly with Dan Mitchell and Brad Shepler to ensure the project is coordinated successfully and that the City's expectations are met.

HRC is ready to begin this job immediately and be prepared for construction to be completed in 2022. HRC is proposing to complete this work for a not to exceed cost of \$186,400. This will be invoiced on a time and material basis based on approved rates and in accordance with our contract with the City of Rochester Hills. Please see the attached spreadsheet for more detailed information about the derivation of our costs.

If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,
HUBBELL, ROTH & CLARK, INC.



Charles E. Hart, P.E.
Vice-President
Attachment

City of Rochester Hills; Allan Schneck
HRC; D. Mitchell, B. Shepler, L. Michaels, File

Recommended by:
CITY OF ROCHESTER HILLS

Allan E. Schneck, P.E., DPS Director

Date: _____

Approved by:
CITY OF ROCHESTER HILLS

Bryan K. Barnett, Mayor

Date: _____

ATTACHMENT A
City of Rochester Hills
Hours / Costs for Preliminary Engineering Services - March 25, 2021
Waterview Drive Reconstruction

Task Description	Principal QA/QC	Associate	Dept Mgr	Proj Engr	Grad Engineer	Designer	Survey Office Super	Sr. Party Chief	Inst. Person	Total By Task
Topographic Survey & Property Lines	1	2	4		8	24	32	95	95	261
Meetings & Preparation	8	12	16	16	12	12				76
Business Communication / Meetings	8	8	16	16	24	32				104
Horizontal & Vertical Alignments	2	8	16	40	60	32				158
Base Plans	2	12	12	40	80	80				226
Utility Mapping, Coord & Relocations	2	4	12	20	40	40				118
Storm Water Drainage Design	2	12	8	12	32	40				106
Maintenance of Traffic (MOT)	4	12	16	24	40	50				146
Prepare Preliminary Plans	8	16	24	60	120	120				348
Prepare Final Plans	8	16	16	30	60	40				170
Total Hours by Classification	45	102	140	258	476	470	32	95	95	1713

	Hours	Hourly Rate*	Direct Cost
Principal	45	\$ 145.00	\$ 6,525.00
Associate	102	\$ 149.35	\$ 15,233.70
Department Manager	140	\$ 113.68	\$ 15,915.20
Project Engineer	258	\$ 109.91	\$ 28,356.78
Graduate Engineer	476	\$ 94.25	\$ 44,863.00
Designer / Sr. CAD Tech	470	\$ 110.20	\$ 51,794.00
Survey Office Supervisor	32	\$ 132.82	\$ 4,250.24
Sr. Survey Party Chief	95	\$ 118.03	\$ 11,212.85
Survey Instrument Person	95	\$ 87.00	\$ 8,265.00
Sub total	1713	Total HRC Costs	\$ 186,415.77

* Estimated for project budgeting. Rates will be billed in accordance with HRC's contract with the City