

February 6, 2023

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: Leach Road Paving
Auburn Road to Waterview Drive (City File: E23-012)
Proposal for Design Engineering Services

HRC Job No.20230110

Dear Mr. Davis:

We are pleased to offer this proposal to perform design engineering services for the Leach Road paving and sidewalk construction project, from Auburn Road to Waterview Drive. HRC will 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 Leach Road in the City's Local Development Finance Authority (LDFA) district for 2024 with an estimated total project cost of \$2.0 million. Per our recent correspondence with the City, the project consists of new HMA pavement construction of the existing gravel roadway with a length of approximately 3,200 feet. New concrete curb and gutter and a width of 36 ft (back/curb to back/curb) is planned. The project also proposes to construct a new 5-foot wide concrete sidewalk along the west side of Leach.

The anticipated project scope involves:

- Construction of approx. 1,650 ft of new 36 ft wide (b/c to b/c HMA roadway replacing the existing gravel surface
- New concrete curb and gutter
- New 5 ft concrete sidewalk along the west side of Leach
- New storm water drainage utilizing the existing WRC drain along the roadway as the outlet
- Review existing reports or videos of the existing sanitary and storm sewers to determine if any repairs should be included with the project
- Structure adjustment and reconstructions as required
- Rehabilitation of approaches within the ROW, as required
- Coordination and communication with existing property owners, including those where easements may be required
- Acquisition of easements at 4 parcels

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

Scope of Services:

Topographic Survey:

HRC will perform the topographic survey. General limits are:

- Leach Road: ROW limits with an additional 5-10 feet along the west side for the sidewalk.
- 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.

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

- 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 5 to 10 ft beyond the ROW.

Design Documents:

Documents will be prepared for a bid opening in early 2024 to ensure the project will be constructed and completed in 2024. HRC anticipates a February 2024 local bid letting with construction starting in April. Right of way / easement acquisition is anticipated in 2023. HRC proposes the following schedule:

- Authorization: Spring 2023
- Topographic Survey & Utility Mapping Complete: June 2023
- Right of Way / Easement Acquisition: July 2023 – November 2023
- Base Plans, Prelim Cost Estimate & Business / Resident Coordination Meeting: August 2023
- Prepare & Submit Preliminary Plans: September 2023
- Prepare & Submit Final Plans: November 2023
- Prepare & Submit Bid Documents: January 2023
- Bid Letting & Award: February 2024

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. A new vertical alignment will be necessary to ensure adequate drainage for the curb and gutter and to accommodate the proposed roadway, sidewalk, and roadside drainage. We anticipate the horizontal alignment may require detailed design and review to complement the sidewalk, account for existing utility structures, and to best fit the corridor and limited right of way. 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
- Storm sewer improvements (i.e. new lateral sewers or additional catch basins at low points) that will connect to the existing county drain. HRC anticipates that water treatment devices will be included with the project but that detention or infiltration elements will not be required.
- Review existing reports and televised records of the existing sewers and include 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
- Title work and appraisals are not included. HRC will utilize existing county and city records for ownership and any market value assessments that may be required.
- 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 the design of storm water detention or infiltration prior to any new storm sewer draining to the existing county drain.
- 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.

Mr. Jake Darnall, P.E., will be HRC's Project Manager for the Leach Road Project based on his experience working with City staff and managing comparable projects. Most recently Jake managed the Auburn Road project with the City. 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 2024. HRC is proposing to complete this work for a not to exceed cost of \$199,285.60. 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

City of Rochester Hills; Bill Fritz
HRC; D. Mitchell, B. Shepler, J. Darnall, File

Recommended by:
CITY OF ROCHESTER HILLS

Bill Fritz, 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 - February 6, 2023
Leach Road Paving: Auburn to Waterview (City File E23-012)

Task Description	Principal QA/QC	Sr. Associate and ROW Mgr	Associate	Proj Engr	Staff/ Grad Eng	Designer	Survey Office Super	Sr. Party Chief	Inst. Person	Total By Task
Topographic Survey & Property Lines	1		4		8	24	32	90	90	249
Meetings & Preparation	2	8	12	12	12	12				58
Business Communication / Meetings	4	8	12	16	24	32				96
Horizontal & Vertical Alignments	4	2	6	32	60	32				136
Base Plans inc Utility Mapping & Coord	1	4	8	32	80	80				205
ROW / Easement Acquisition & Docs	4	80	4	8		50	16			162
Storm Water Drainage Design	4	24	8	32	50	40				158
Maintenance of Traffic (MOT)	4	4	4	24	40	50				126
Prepare Preliminary Plans	6	8	24	50	120	120				328
Prepare Final Plans	2	4	12	30	60	40				148

Total Hours by Classification 32 142 94 236 454 480 48 90 90 1666

	Hours	Hourly Rate*	Direct Cost
Principal	32	\$ 150.00	\$ 4,800.00
Sr. Associate, ROW Manager	142	\$ 162.40	\$ 23,060.80
Associate	94	\$ 133.40	\$ 12,539.60
Project Engineer	236	\$ 130.50	\$ 30,798.00
Staff / Graduate Engineer	454	\$ 101.50	\$ 46,081.00
Designer / Sr. CAD Tech	480	\$ 116.00	\$ 55,680.00
Survey Office Supervisor	48	\$ 140.65	\$ 6,751.20
Sr. Survey Party Chief	90	\$ 121.80	\$ 10,962.00
Survey Instrument Person	90	\$ 95.70	\$ 8,613.00
Sub total	1666	Total HRC Costs	\$ 199,285.60

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