

April 23, 2019

Request for Proposal:

Begole Road at Cheesman Road Intersection Project

PROJECT DESCRIPTION & LOCATION:

The Gratiot County Road Commission has been awarded funding through the MDOT Highway Safety Improvement Program (HSIP) for adding turn lanes and a traffic signal at the Begole Road and Cheesman Road intersection in fiscal year 2020.

This proposal is for the survey, preliminary engineering and design engineering, for an intersection improvement project at Begole Road and Cheesman Road Intersection, Sections 26 & 27, Pine River Township, Gratiot County, Michigan.

SCOPE:

This request is for Survey, Preliminary Engineering and Design Engineering for an intersection improvement project including adding turning lanes and traffic signals. The consultant will be required to survey, obtain all necessary soil borings, prepare plans, obtain project approvals through the Michigan Department of Transportation, and prepare contract documents for bidding. In addition, the consultant will be required to acquire all necessary permits; to include but not limited to, MDEQ, SHPO, and fulfill all NEPA requirements. The project shall utilize existing right of way where possible and minimize the use of easements.

The consultant will be required to work directly with the Gratiot County Road Commission, MDOT, MDEQ, and other applicable agencies and acquire all necessary approvals to construct the proposed project. Coordination and cooperation with the various entities is of the utmost importance to get this project out for bids in a timely manner.

Our intent is to have this project in a March 2020 bid letting, so that the project can be constructed during the **2020 construction season**.

FINANCING:

This is a Highway Safety Improvement Project that will be programmed for funding through the Michigan Department of Transportation. The estimated total project construction cost is \$775,000 using \$600,000 in Federal Highway Safety Funds and \$175,000 in Local Match.

CONSTRUCTION SCHEDULE:

This project will be scheduled for bid and award during the first quarter of 2020 or sooner.

PROPOSAL REQUIREMENTS – DESIGN SERVICES:

TASK A - Survey: The consultant shall conduct all preliminary surveying necessary in the project area. The consultant shall perform all work necessary to survey and accurately document and depict existing conditions in the project area.. All drawings must be produced on a CAD system with a file format compatible with AutoCad and electronic copies of all sheets furnished to the Road Commission. A minimum of two survey control points and two benchmarks will need to be physically established in the field and noted on the plans for construction activities.

TASK B - Preliminary Engineering: All work necessary to provide preliminary plans showing, at a minimum: proposed typical cross sections, centerline grades, horizontal and vertical curve data and deflection points, proposed drainage, expected utility relocations, plots of the typical cross section superimposed on existing sections at half station intervals and at all existing/proposed driveway/side street locations. All bridge and roadway improvements shall meet all applicable AASHTO and MDOT design requirements. Where required by the design, the consultant will prepare and furnish legal descriptions for required easements. All drawings must be produced on a CAD system with a file format compatible with AutoCad, and electronic copies furnished of all plan sheets.

TASK C - Design Engineering: All work necessary for preparation of contract documents including preparation of detailed design and construction plans, cost estimates, contract special provisions and supplemental specifications, design exception requests, programming application, all NEPA requirements, coordination with the Road Commission, Township, MDOT, MDEQ, SHPO and public utilities and other agencies as may be necessary, including attendance at a grade inspection and all review meetings. Design Engineering shall also include all work necessary for the review and approvals of any required prefabrication shop drawings.

TASK D – Soil Borings: The consultant will be responsible for obtaining all necessary soil borings. The proposal shall identify the firm which will be used. The consultant shall determine the appropriate number of soil borings and the depths required. The cost for soil borings shall be listed in the proposal as a separate line item.

Please include the following information in your proposal:

1.) QUALIFICATIONS:

Names and brief resumes of personnel who will actually perform design are required. List all sub-consultants that will be used on the project.

2.) QUALITY CONTROL (QC) & QUALITY ASSURANCE (QA)

QC/QA Certification is required with the project programming application (MDOT form 0258). The proposal shall include the procedures, qualifications of the designer, checker, and reviewer, along with certification that the design computations/calculations and checks/reviews will be completed and documented for the design project.

3.) SIMILAR PROJECTS COMPLETED.

4.) PROPOSED SCHEDULE:

The Consultant shall provide a detailed proposed Schedule, outlining the proposed dates for completion of each task.

5.) COST & BILLING:

The consultant shall provide a "not to exceed cost" for completing the proposed work of Surveying, Preliminary Engineering, and Design Engineering (Task A, B, C). The structure shall have all costs defined separately.

Soil Borings (Task D) shall be quoted as a separate line item. This quote shall include all associated costs for the borings. A price per additional depth per foot shall also be quoted in case it is determined at the time of the borings that additional depth is required.

Progress payments for work completed will be made to the consultant as mutually agreed upon by the Road Commission and the Engineering Consulting Firm utilizing the fee schedule and actual hours charged.

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PROPOSAL EVALUATION:

The Gratiot County Road Commission will be selecting a consultant based on a not to exceed price, proposed schedule, proposed coordination and cooperation efforts; experience and qualification of firm, project manager, and staff; familiarity with federal, state and local regulations; capacity; ability to meet the proposed schedule and recent successful completion of similar projects.

The Gratiot County Road Commission reserves the right to request additional information regarding Consultant qualifications and clarification of pricing information. Failure to provide all information requested shall be sufficient reason for the Road Commission to eliminate a Consultant from further consideration in the selection process. The Gratiot County Road Commission Board reserves the right to accept or reject any part of or all bids and/or quotations and to waive any irregularities in the bidding which in their opinion will be beneficial to the County of Gratiot.

PROPOSAL DUE DATE:

Please submit one proposal. All proposals are due by 10:00 A.M. Wednesday, May 15, 2019 at the Gratiot County Road Commission, P.O. Box 187, 200 Commerce Drive, Ithaca, MI 48847.

For further information contact:

Mark A. Craft, P.E.,
Engineer-Manager
Gratiot County Road Commission
PO Box 187
200 Commerce Drive
Ithaca, MI 48871

989-875-3811 or Mark@GratiotRoads.org

Attachments:

Safety program application
Location Map
Estimated Costs

PROJECT LOCATION MAP

St. Louis

Orchard Hills

School

Alma

Walmart

Meijers



August 6, 2018

SAFETY PROJECT APPLICATION for GRATIOT COUNTY ROAD COMMISSION

PROJECT: *Begole Road and Cheesman Road Intersection Improvements*

SUMMARY:

This project is to construct turning lanes and signalize the intersection.

This intersection is located in the small urban area of Alma and St. Louis. Begole Road and Cheesman Road are both classified as Minor Arterials. This project is located in the Rural Task Force region 7B.

A new Walmart Supercenter opened up in 2011 west of this intersection. In 2014, a new Meijer store opened up. Both of these superstores have entrances off of Cheesman Road west of this intersection. Cheesman and Begole have seen significant increases in traffic since these two mega stores have opened up.

In addition, Alma High School has entrances off of both Begole Road (Panther Parkway) located south of intersection, and off of Cheesman Road (Pine Avenue) located west of the intersection.

The current average daily traffic on Begole Road is 6,522 (ADT).

The current average daily traffic on Cheesman Road is 4,494 (ADT).

Before this area started attracting these new businesses, the ADT in 2008 on Cheesman was 1,601, and Begole was 4,581. These are significant increases with traffic using these roads.

A complete construction package could be completed for letting this project in the 2020 construction season.

The Gratiot County Road Commission Board, based on local support, has directed staff to submit the application for this project.

This Project is Gratiot County Road Commissions #1 Priority request for Safety Funds.

Project Costs:	\$600,000	(78%)	Federal Funds
	<u>\$175,530</u>	(22%)	Local Funds
	\$775,530	(100 %)	Total Cost

Begole/Cheesman Intersection
Cost Estimate
August 1, 2018

Items	Quantity	Unit \$	Total \$
Mobilization	1 Lsum	\$ 75,000.00	\$ 75,000
Temporary Traffic Control	1 Lsum	\$ 15,000.00	\$ 15,000
HMA 13A	3000 Tons	\$ 62.00	\$ 186,000
Sand Subbase 12" CIP	3700 CYD	\$ 16.00	\$ 59,200
Aggregate Base 8" CIP	3100 Ton	\$ 14.00	\$ 43,400
Concrete Curb and Gutter	1200 lft	\$ 20.00	\$ 24,000
Guardrail, Type B	1000 lft	\$ 25.00	\$ 25,000
Guardrail End Sections	2 Each	\$ 2,000.00	\$ 4,000
Traffic Signal Installation	1 Lsum	\$ 150,000	\$ 150,000
Aggregate Shoulders	1200 Tons	\$ 30.00	\$ 36,000
Pavement Removal	4200 Syd	\$ 5.00	\$ 21,000
Pavement Markings	4500 Lft	\$ 0.34	\$ 1,530
Concrete Curb & Gutter	1200 Lft	\$ 30.00	\$ 36,000
Subbase Underdrain	1400 Lft	\$ 8.00	\$ 11,200
Earth Excavation	4500 CYD	\$ 14.00	\$ 63,000
Embankment	2100 CYD	\$ 12.00	\$ 25,200
Total Cost			<hr/> \$ 775,530