



Confidence in the built environment.

August 6, 2024

Mr. Mark Witsman, PE
Town Engineer
Town of McCordsville
6280 W 800 N
McCordsville, IN 46055

**Re: Proposal to Provide Professional Consulting Services
CR 600 West at W. Brookside Parkway / Emerald Blvd.**

Dear Mr. Witsman,

HWC Engineering (HWC). is pleased to submit this proposal for Design Services for the proposed traffic signal at the intersection of CR 600 West at W. Brookside Parkway/Emerald Blvd.

We appreciate this opportunity and look forward to providing the highest quality of professional services in working with The Town of McCordsville.

Respectfully Submitted,

Scott E. Wilkinson, P.E.
Direction of Transportation

Enclosures

cc: file



Traffic Signal Design
CR 600W at W. Brookside Parkway/Emerald Blvd.

Town of McCordsville

August 6, 2024



I. Project Description

This project includes requested tasks to complete the traffic signal design at the intersection of CR 600 West at W. Brookside Parkway/Emerald Blvd. as detailed in the scope below and outlined in the Traffic Signal Warrant Analysis provided and completed by others dated May 24, 2024.

II. Topographic Survey

HWC will provide surveying services within the project limits. This task includes the following elements:

- A. Topographical survey of the existing site conditions, as necessary for development of design plans. Elements to be identified are existing utilities, pavements, buildings, ground contours, drainage conditions, property lines and existing right-of-way.
- B. Identify adjacent property owners and obtain copies of deed descriptions or platted subdivisions and any utility easements of record within the last 20 years.
- C. Establish a temporary benchmark system and control points along the length of the survey.

III. Roadway/Signal Design

- A. **Roadway Design:** The proposed improvements are anticipated to fit within the existing pavement footprint. Modifications to lane assignments and configurations will be limited to revisions to pavement markings and will not include the revision of existing curb lines. The proposed configuration shall be as described in the Traffic Signal Warrant Analysis by other, dated May 24, 2024. Turning movements will be evaluated to determine appropriate stop bar locations as well as conflicting turning movements based on design vehicle only. If turning movements restrict phasing and require additional design of curb returns or overall intersection geometry, a supplement would be required. Maintenance of traffic will consist of lane closures/lane shifts as needed to install traffic signal equipment.
- B. **Pedestrian Accommodations:** CR 600 West is currently free flow condition, with W. Brookside Parkway/Emerald Blvd. being stop controlled. There is an actuated pedestrian crossing located along the south leg of the intersection. Currently, pedestrians are allowed to cross at the south and east legs of the intersection, however pedestrian crossings will be added to the west and north legs of the intersection as a part of the project. It is anticipated that curb ramp and sidewalk modifications will be needed at each quadrant, due to the installation of the signal equipment, including pedestrian push buttons and pedestrian signal heads. The existing actuated pedestrian beacon will be removed as a part of this project.
- C. **Capacity Analysis:** Capacity analysis will be performed in Synchro utilizing traffic data provided by the Town. Existing AM and PM peak periods will be analyzed for the existing year and optimized based upon available traffic data and proposed geometry.
- D. **Project Management/Meetings:** HWC will provide monthly progress reports and updates via Teams throughout the duration of the project. One in-person meeting is included and is expected to be located on-site as a part of the preliminary plan submittal.



IV. Utility Coordination Services (As-needed)

- A. HWC will provide utility coordination services during design and construction. It is anticipated that overhead utilities may be impacted by the proposed improvements. Underground infrastructure may be impacted by the required signal cabling, handholes, and detector housings.

V. Bidding/Construction Phase Services (As-needed)

- A. HWC will analyze bids received and provide a recommendation letter to the Town. The Town will advertise and send documents to the Contractors. HWC will be available on an hourly basis to review shop drawings and answer Contractor's questions as needed.

VI. Construction Inspection Services (As-needed)

- A. HWC will be available on an hourly basis, at the request of the Town, to perform on-site construction inspection services. All directs will be invoiced to the Town as required and the Town will be invoiced at an hourly rate of \$120/hr.

VII. Assumptions and Exclusions

- A. No permits are anticipated or included in this scope of services.
- B. No geotechnical investigation is required or included in this scope of services.
- C. No right of way is anticipated or included in this scope of services.
- D. Traffic count data will be provided from completed warrant analysis. No additional count data will be gathered.

VIII. Schedule

- A. The final project schedule will be coordinated with the Town of McCordsville once Notice to Proceed (NTP) is granted. This schedule does not account for utility relocations, right of way acquisition or other unknown items at this time. It is estimated that the following schedule will allow for construction in the Spring of 2025:
 - 1. NTP – August 16, 2024
 - 2. Survey Complete – September 6, 2024
 - 3. Preliminary Plan Submittal / Field Check – September 27, 2024
 - 4. Final Plan Submittal – October 25, 2024

IX. Deliverables

- A. Construction Plans and Specifications for Bidding with the following formal submittals:
 - 1. Preliminary Plans (60%)
 - 2. Final Plans (100%)
- B. Traffic Signal Timing (Synchro Output)
- C. Cost Estimate
- D. Summary of Quantities



X. Compensation

A. Topographic Survey	\$ 13,500.00 (L Sum)
B. Roadway/Signal Design	\$ 45,000.00 (L Sum)
C. Utility Coordination	\$ 10,000.00 (Hourly NTE, As-needed)
D. Bidding/Construction Phase Services	\$ 7,500.00 (Hourly NTE, As-needed)
E. Construction Inspection Services	\$ 120.00 (Rate per Hour, As-Needed)

