



# A&F ENGINEERING

## Transportation & Site Engineering

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May 31, 2016

Mr. Phil Sundling, P.E.  
Project Management Supervisor  
City of Westfield Public Works  
2706 E. 171st Street  
Westfield, IN 46074

Dear Mr. Sundling,

Thank you for contacting A&F Engineering regarding this design project along Greyhound Pass in the City of Westfield. Per our discussions, the City desires to design a project similar to the configuration shown on the attached exhibit. Manhour justifications and hourly rate schedules are attached to this submittal to justify the following proposed fees:

|                             |                    |                      |
|-----------------------------|--------------------|----------------------|
| Roadway Design              | \$ 36,050.00       | Lump Sum             |
| Utility/Simon Coordination  | \$ 6,700.00        | Lump Sum             |
| Signal/Interconnect Design  | \$ 12,100.00       | Lump Sum             |
| Signal Timing               | \$ 3,400.00        | Lump Sum             |
| Construction Administration | \$ 8,500.00        | Hourly/Not to Exceed |
| <b>Total</b>                | <b>\$66,750.00</b> | <b>Not to Exceed</b> |

The scope of the engineering services are as follows:

1. Existing geometrics will be traced with utility and storm information field gathered and/or documented from as-builts. No topographic survey or right of way work will be performed.
2. Preliminary Roadway Design will be performed with minimal outside curb disruption. Final turn lane lengths on mainline will be based on traffic signal timing recommendations and coordinating landscaping possibilities with the City and Simon.
3. Preliminary signal and interconnect design will be performed as the existing signal at Marsh Drive will be removed and a new signal will be installed at Thatcher. Left turn phasing of the signals will be set up based on recommendations of the traffic signal timing recommendations. Further, A&F's

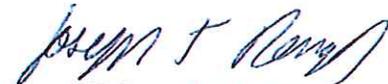
staff will take inventory of existing equipment and make recommendation for improvements to the existing 147th Street and Cool Creek signals to create an operating three signal system.

4. A signal timing analysis with recommendations will be submitted to the City for set-up of the three signal system once operational: Special consideration will be given to the eastbound movement at the future Greyhound Pass/Thatcher signal to minimize impact to the US 31 ramp.
5. Existing utilities within the corridor will be notified of the project. Although widening is limited, A&F will attempt to identify any significant construction issues regarding utilities. A&F will not perform a full-scale INDOT utility coordination process.
6. Based on preliminary comments on the preliminary design data, A&F will finalize the design for inclusion of a bid package for public bidding.
7. A&F will perform part-time hourly construction observation as needed to verify critical construction items involving the traffic signal and signal system.

If you have any questions, please contact me.

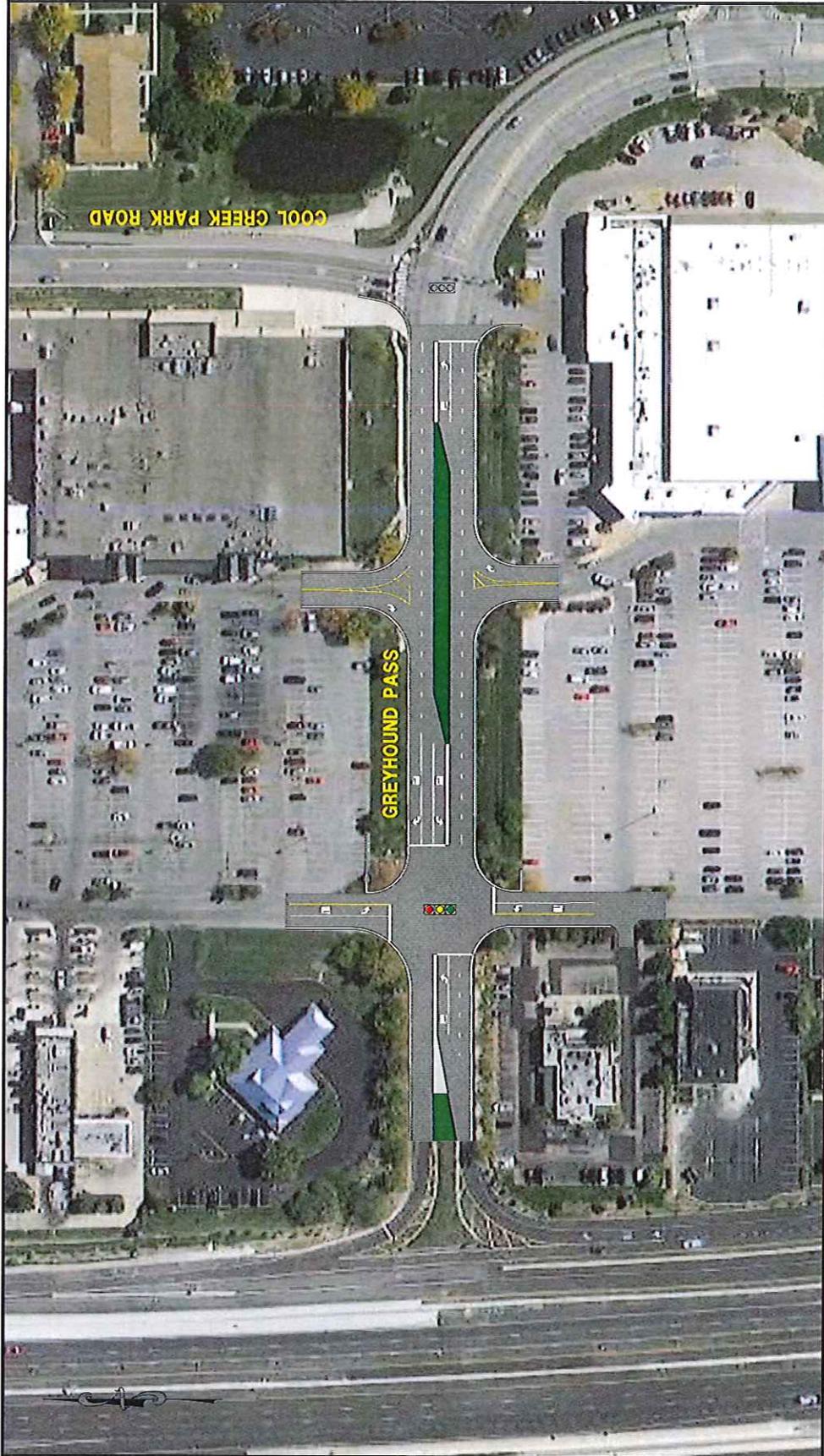
Sincerely,

A&F Engineering Co., LLC



Joseph T. Rengel, P.E., PTOE

Vice President



Prepared By:

**A&F ENGINEERING**  
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*Greyhound Pass*