

October 4, 2022

Mr. Lon Fox
Town Council President
9312 W Smith Street
Yorktown, IN 47936

Re: Chase Trail Stop Sign Request

Dear Mr. Fox,

At the request of the Town of Yorktown, we have completed the review of the stop sign request submitted on behalf of the Chase Trail subdivision. The attached figure, provide by the subdivision representative, indicates desired stop sign locations.

The Indiana Manual of Uniform Traffic Control Devices (IMUTCD) governs the use of all street signs and outlines warrants that should be met before implementing stop signs at new locations.

Per IMUTCD Section 2B.06(B), *the use of stop signs on the minor-street approaches should be considered if a restricted view exists that requires road users to stop in order to adequately observe conflicting traffic on the through street.* This provision would be most applicable to a stop sign request at tee-intersections within the neighborhood.

Per IMUTCD Section 2B.07, *the decision to install multi-way stop control should be based on an engineering study.* The section identifies several criterion that may be utilized to justify implementing stop signs. Criterion (D) is most applicable to the request presented by Chase Trail. This criterion states that *multi-way stop signs may be considered if the intersection is between two residential neighborhood collector (through) streets of similar design and operating characteristics where multi-way stop control would improve traffic operational characteristics of the intersection.*

Note that the use of stop signs solely for speed-reduction purposes, or to simply discourage motorists from utilizing a particular segment of roadway, is not an accepted IMUTCD warrant.

Discussion of each requested stop sign location is as follows.

Location #1: Chase Trail Blvd & Wild Pine Dr/Premier Dr

- Request is to install stop signs on the north and south approaches of the intersection.
- This location meets the criteria of Section 2B.06(B), due to restricted sight lines to vehicles entering Chase Trail Blvd from the immediately adjacent C.R. 600 W.
- BF&S recommends to install the stop signs as requested on the north and south approaches.

Location #2: Chase Trail Blvd & TK Way/Private Drive

- Request is to install stop signs on all four approaches of the intersection.
- The west approach meets the criteria of Section 2B.06(B), due to restricted sight lines to vehicles travelling on TK Way.
- The east approach appears to a private drive. Private drives do not meet stop sign warrants.
- The north and south approaches do not appear to meet warrants. There are not restricted sight lines (with a stop condition on the west approach), and in the judgement of BF&S, adding stop signs on these approaches would merely serve to impede traffic flow, and would not "improve traffic operational characteristics of the intersection".
- BF&S recommends to implement a stop sign on the west approach only.

Location #3: Chase Trail Blvd & Fox Berry Way

- Request is to install a stop sign on the south approach of the intersection.
- This location meets the criteria of Section 2B.06(B), due to restricted sight lines to vehicles travelling eastbound on Chase Trail.
- BF&S recommends to install the stop sign as requested on the south approach.

Location #4: TK Way & Fox Berry Way

- Request is to install a stop sign on the north approach of the intersection.
- This location meets the criteria of Section 2B.06(B), due to restricted sight lines to vehicles travelling westbound on TK Way.
- BF&S recommends to install the stop sign as requested on the north approach.

Location #5: Wild Pine Dr & TK Way

- Request is to install a stop sign on the north approach of the intersection.
- This location meets the criteria of Section 2B.06(B), due to restricted sight lines to vehicles entering TK Way from the immediately adjacent C.R. 600 W.
- BF&S recommends to install the stop sign as requested on the north approach.

In summary, BF&S recommends that stop signs should be installed by the Town at 6 locations with Chase Trail. It is BF&S judgement that stop signs are not warranted at other locations, and therefore should not be permitted within the public right-of-way.

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