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TECHNICAL MEMORANDUM

Harris Teeter Fuel Center Traffic Impact Analysis Review – Resubmittal

Date:	March 1, 2022	Project #: 21905.013
To:	Denise Harris	
From:	Zachary Bugg, PhD, PE; and Chris Tiesler, PE	

At the request of the Town of Warrenton, Virginia, Kittelson & Associates, Inc. (Kittelson) reviewed the traffic impact analysis (TIA) for the proposed Harris Teeter Fuel Center completed by Kimley Horn (Reference 1). We also reviewed the electronic (Synchro) analysis files. All analysis inputs and assumptions were reviewed according to VDOT TOSAM and requirements (Reference 2). Our original review was submitted May 5, 2021.

A comment response letter and revised TIA report were received on February 28, 2022. This memorandum provides additional comments and discussion related to the revised submittals and comment response letter.

TRAFFIC ANALYSIS REVIEW

We have reviewed the updated TIA report and responses to comments, and we have the following remaining comments:

- The revised TIA report does not include PDF outputs or electronic analysis files. We request these be provided so that we can confirm that our prior comments on the traffic analysis assumptions (Comments #3, #5, #6, and #7) have been adequately addressed and fully review the other responses.
- Several of the responses to comments indicate "there were nominal changes to this result." While we acknowledge the changes may be small, it is not difficult or unreasonable to update the analyses to reflect these changes and reflect what the most likely future scenarios will produce operationally. Two comments should be specifically addressed:
    - Right turn on red volumes (Comment #2) – the TOSAM encourages adjustment to field measurements when data are available. We would like to review the updated electronic files (requested above) to understand how operations might be degraded as a function of increasing the RTOR volume and allow for the comparison of relative impacts between scenarios.

- Pass-by trip assignment (Comment #9) – our suggested pass-by trip cap represents a change in five (5) trips during the AM peak hour and two (2) trips during the Saturday peak hour. Given the existing LOS E for the Fletcher Drive approach at Lee Highway during these peak hours, the impact of treating these trips as diverted trips from Lee Highway should be evaluated.

REVISED SITE PLAN REVIEW

Our original review included an attached markup of the site plan to display suggested changes in parking and circulation downstream of the new one-way entrance near the fuel station. The applicant did not revise the site plan to address this comment or provide a response to Comment #12 of our review, which discussed concerns with parking demand being higher near the south end of the site. While site circulation (Comment #11) was acknowledged via an expanded narrative in the TIA report, it has not been addressed on the site plan.

NEXT STEPS

In summary, we request the detailed PDF outputs and electronic Synchro files be provided to confirm the comments were addressed. Thank you for the opportunity to review. If you have any questions, please contact us at 571-384-2943.

REFERENCES

1. Kimley Horn. Harris Teeter Fuel Center Traffic Impact Analysis. January 2020.
2. Virginia Department of Transportation. Traffic Operations and Safety Analysis Manual (TOSAM) – Version 2.0. February 2020.

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