

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

December 9, 2014

VHB Engineering, NC, P.C.  
Attn: Tommy Pate, P.E.  
4000 West Chase Blvd., Suite 530  
Raleigh, NC 27607

**Subject:** Circle K Mixed Use Traffic Impact Analysis

The Department has reviewed the Traffic Impact Analysis for the Circle K Mixed Use development prepared by VHB Engineering in October 2014. In order to accommodate the site-generated traffic safely and efficiently, while also attempting to protect the functional integrity and operational capacity of the adjacent roadway facilities, the below noted improvements and/or restrictions are required of this development.

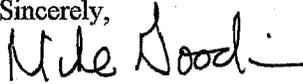
**US 501 and Site Access #1**

- The pavement markings on US 501 and Diane Street shall remain in the existing pattern. This configuration is consistent throughout the corridor.
- Site Access #1 shall allow full movement and consist of a three-lane cross-section (one ingress and two egress lanes). The egress lanes shall consist of an exclusive right-turn and a through left-turn lane.
- Site Access #1 shall have a minimum of 100 feet of Internal Protective Storage before a parking and/or crossing maneuvers occur.

**Site Access #2 and Frasier Street (Advisory Comments – City Street)**

- Construct an exclusive eastbound left-turn with adequate storage and appropriate tapers on Frasier Street, with a two-way left-turn lane between the westbound left-turn lane on Frasier Street onto US 501 and Site Access #2.
- Site Access #2 shall allow full movement and consist of a three-lane cross-section (one ingress and two egress lanes). The egress lanes shall consist of an exclusive right-turn and a through left-turn lane.
- Site Access #2 shall have a minimum of 100 feet of Internal Protective Storage before a parking and/or crossing maneuvers occur.

If you have any questions or need additional information, please feel free to contact me at 919-220-4750.

Sincerely,  
  
Mike Goodwin  
Assistant District Engineer

cc: Joey Hopkins, PE, Division Engineer  
Doumit Ishak, Congestion Management Regional Engineer  
Wesley Parham, P.E., City of Durham  
File