



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. Box 778
DOVER, DELAWARE 19903

SHAILEN P. BHATT
SECRETARY

MEMORANDUM

TO: Leonard Massotti, Sussex County Subdivision Coordinator
FROM: Troy Brestel, Project Engineer 
DATE: April 5, 2012
SUBJECT: **Dollar General - Millville**
Results of Traffic Operational Analysis Review

We have reviewed the traffic operational analysis (TOA) for the proposed Dollar General in the Town of Millville, prepared by Davis, Bowen & Friedel, Inc. (DBF), dated January 12, 2012. The analysis evaluates the traffic impacts of the commercial development, proposed to be located on Delaware Route 26 opposite Whites Neck Road. The proposed development would consist of a 9,100 square foot discount store. One access point is proposed for the project on Delaware Route 26, directly across from Whites Neck Road. Construction is expected to be complete in 2013.

Based on our review, we find that the intersection of Delaware Route 26, Whites Neck Road, and the proposed site access would largely operate at level of service (LOS) D or better during the Friday p.m. and summer Saturday mid-day peak hours for both present and future conditions, and would meet the LOS criteria listed in DeIDOT's Standards and Regulations for Subdivision Streets and State Highway Access. There are some exceptions for the northbound site access and the southbound approach of Whites Neck Road during several scenarios. However, traffic volumes along these approaches are very light for each scenario analyzed and projected traffic queues are minimal. The failing LOS can be attributed to the comparatively heavier through traffic volumes on Delaware Route 26, which would not be delayed at all.

Should the developer choose to develop the property per the proposed land use, we offer the following comments:

- 1) The developer should enter into a signal agreement with DeIDOT for the intersection of Delaware Route 26 / Whites Neck Road / Proposed Site Access, whereby the developer would pay an amount of \$18,278 toward the Signal Revolving Fund.

Mr. Leonard Massotti

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- 2) The developer should enter into an agreement with DelDOT to make a contribution in the amount of \$5,040 towards the construction of a sidewalk along the property frontage.

Please note that this analysis generally focuses on capacity and level of service issues. Level of Service tables for the existing and future cases are attached with this memorandum.

TB:km

cc: D.J. Hughes, Davis, Bowen & Friedel, Inc.
Deborah Botchie, Town Manager, Town of Millville
Cleon S. Cauley, Sr., Deputy Director, Development Coordination
T. William Brockenbrough, Jr., County Coordinator, Development Coordination
J. Marc Cote', Subdivision Engineer, Development Coordination
Thomas Banez, Project Manager, Project Development South, DOTS
Marvin Roberts, Public Works Manager, South District
John Fiori, Subdivision Manager, Development Coordination
Naa-Atswei Tetteh, Traffic Engineer, Traffic, DOTS

Table 1
 PEAK HOUR LEVELS OF SERVICE (LOS)
 Dollar General - Millville
 Prepared by Davis, Bowen & Friedel, Inc.

Unsignalized Intersection ¹	LOS per TOA		LOS per DelDOT	
	Friday PM	Summer Saturday Mid-Day	Friday PM	Summer Saturday Mid-Day
Delaware Route 26 / Whites Neck Road / Proposed Site Access				
2011 without development				
Delaware Route 26 Eastbound Left-Turn	A (9.4)	A (9.8)	A (9.6)	A (9.9)
Whites Neck Road Southbound	D (29.4)	E (44.7)	D (34.0)	F (50.2)
2013 without development				
Delaware Route 26 Eastbound Left-Turn	A (9.6)	B (10.0)	A (9.8)	B (10.1)
Whites Neck Road Southbound	D (34.2)	F (56.0)	E (40.0)	F (63.2)
2013 with development				
Delaware Route 26 Eastbound Left-Turn	A (9.6)	B (10.0)	A (9.8)	B (10.1)
Delaware Route 26 Westbound Left-Turn	A (9.6)	A (10.0)	A (9.8)	B (10.1)
Site Access Northbound	D (31.0)	E (39.7)	D (32.0)	E (39.8)
Whites Neck Road Southbound	F (69.4)	F (167.4)	F (76.7)	F (168.3)

¹ The numbers in parentheses following levels of service are average delay per vehicle, measured in seconds.