

POLLY TROTTENBERG, Commissioner

June 12, 2015

The Honorable David G. Greenfield Council Member, 46th District 4424 16th Avenue Brooklyn, New York 11234

Dear Council Member Greenfield:

This is in reply to your May 12th e-mail requesting a summary of our traffic studies for the intersection of 51st Street and Old New Utrecht Road.

Attached is the Summary Report for this intersection.

Thank you for your interest in this matter.

Very truly yours,

Keith Bray Brooklyn Borough Commissioner

KB:ahb:jb CK14-1563 DOT-232750-X2V8

bc: K. Bray, A. Borock, E. Athanailos, J. Baez, V. Preston, Queens Borough Engineering Office

Intersection Control Study Summary Report

This is in reply to your request for a summary of the traffic study and/or report performed by the Department of Transportation (DOT) that resulted in a denial of Multi-Way Stop controls at the intersection of 51st Street and Old New Utrecht Road in Brooklyn, New York.

This is a four-legged intersection. 51st Street is a one-way westbound street, while Old New Utrecht Road is a one-way southbound street. The intersection is controlled by a Stop sign for southbound Old New Utrecht Road and these vehicles must either make a right turn or go through.

In order to determine if Multi-Way Stop controls are justified at this location, DOT conducted an engineering study of traffic conditions, pedestrian characteristics and physical characteristics of the location. The study included an analysis of factors related to the existing operation and safety at the location (and the potential to improve these conditions), and the applicable factors contained in the federal Manual on Uniform Traffic Control Devices (MUTCD).

A full description of the federal Multi-Way Stop applications are available online at http://mutcd.fhwa.dot.gov/.

Field Observation Data (Manual Counts)

Manual vehicle and pedestrian counts were conducted on February 24th from 6:00 to 7:00 pm and on February 25th from 7:30 to 8:30 am and from 2:30 to 3:30 pm (manual counts are typically conducted during morning and evening peak hours and during school dismissal times if required).

VEHICULAR VOLUMES

At 51st Street and Old New Utrecht Road A.M. peak hour volumes were 73 vph on the major [51st Street] and 34 vph on the minor [Old New Utrecht Road], dismissal hour volumes were 113 vph on the major and 70 vph on the minor, and P.M. peak hour volumes were 84 vph on the major and 53 vph on the minor.

PEDESTRIAN VOLUMES

Pedestrian volumes [crossing 51st Street] were low - 99 pedestrians during the A.M. peak, 64 pedestrians during dismissal and 100 pedestrians during the P.M. peak.

SPEED

The 85th percentile speed (the speed at which 85% of vehicles travel at or below) on westbound 51st Street was 27 miles per hour (mph) which is not excessive.

CRASH EXPERIENCE

We were unable to document any preventable accidents within any 12 month period [between March 2012 and March 2015].

2012 – One total crash.

2013 – None.

2014 – Two total crashes.

2015 – Three total crashes as of March 5th.

Multi-Way Stop Applications

Multi-Way Stop controls can be considered when there are five or more preventable crashes within a 12 month period. Such crashes include right angle collisions as well as left turn and right turn collisions.

• At the intersection of 51st Street and Old New Utrecht Road, the highest number of crashes have occurred in 2015 (three total crashes).

Multi-Way Stop controls can be considered when the vehicle volume on the major street approach averages at least 300 vehicles per hour for any eight hours of an average day and the combined vehicular, pedestrian and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units per hour for the same eight hours.

- At 51st Street and Old New Utrecht Road A.M. peak hour volumes were 73 vph on the major [51st Street] and 133 combined units per hour (uph) on the minor [Old New Utrecht Road],
- School dismissal hour volumes were 113 vph on the major [51st Street] and 134 combined units per hour (uph) on the minor [Old New Utrecht Road],
- In the P.M. peak there were 84 vph on the major and 153 combined units per hour (uph) on the minor.

Conclusion

In accordance with this engineering study, we have determined that this location does not meet any of the aforementioned guidelines for a Multi-Way Stop control. You may resubmit your request for additional intersection controls in 18 months, at which time we will re-study the intersection.