

WELLS + ASSOCIATES

MEMORANDUM



To: Peter Barrett, St. Patrick's Episcopal Day School

From: Jami L. Milanovich, P.E.

Copy: Christine Roddy, Goulston & Storrs

Re: Proposed Bus Route

Date: March 11, 2016

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Per your request, Wells + Associates has evaluated the proposed change in school bus route. Based on my understanding, St. Patrick's proposes to alter the existing route, which travels from the Lower School on Whitehaven Parkway to the Upper School on MacArthur Boulevard and then back to the Lower School via an approximate 3.4 mile route as shown on Figure 1 (attached). The proposed route, shown on Figure 2 (attached), would travel a much shorter distance of 1.4 miles. The proposed route has been reviewed and approved by ANC 3D. The proposed route would require a U-turn to be made on MacArthur Boulevard. Therefore, Wells + Associates evaluated the ability of St. Patrick's school buses to make the U-turn as proposed.

The following excerpts from the District of Columbia Vehicle Code (DCMR 18-2204) apply to U-turns:

- Whenever authorized signs are erected indicating that "NO RIGHT TURN" or "NO LEFT TURN" or "NO U-TURN" is permitted, no driver of a vehicle shall disobey the directions of any such sign.
- No vehicle shall make a U-turn so as to proceed in the opposite direction at any intersection controlled by traffic lights or police officer, or on a crosswalk adjacent to such an intersection.
- The driver of any vehicle shall not turn a vehicle so as to proceed in the opposite direction unless such movement can be made in safety and without interfering with other traffic.
- The provisions of this section shall not apply to streetcars.
- No vehicle shall make a U-turn so as to proceed in the opposite direction across a bicycle lane.

Transportation Consultants
INNOVATION + SOLUTIONS
Board of Zoning Adjustment
District of Columbia
CASE NO.17300A
EXHIBIT NO.5



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Based on our interpretation of the Code, we believe U-turns are a permitted movement at the MacArthur Boulevard/Chain Bridge Road intersection since “No U-turn” signs are not present, the intersection is not signalized, and the U-turn maneuver would not cross a bicycle lane.

Wells + Associates conducted an AutoTURN study to ensure that St. Patrick’s existing buses would be able to negotiate the U-turn. Based on the information you provided, I understand the school currently has the following buses in its fleet:

- Bus #1- 2004 Make/Model: Bluebird SBCV42, 28 passenger
- Bus #2- 2005 Make/Model: Bluebird/SBCV42, , 32 passenger

Using specifications for the larger of the two buses (32 passenger bus) obtained from sales representative at I.G. Burton, a dealership that sells Blue Bird buses, Wells + Associates prepared the swept area diagram shown on Figure 3. As shown, the bus can negotiate the U-turn at the intersection of MacArthur Boulevard and Chain Bridge Road without issue.

Please do not hesitate to contact me at jlmilanovich@wellsandassociates.com or (703) 676-3608 should you have any questions or require additional information regarding this matter.

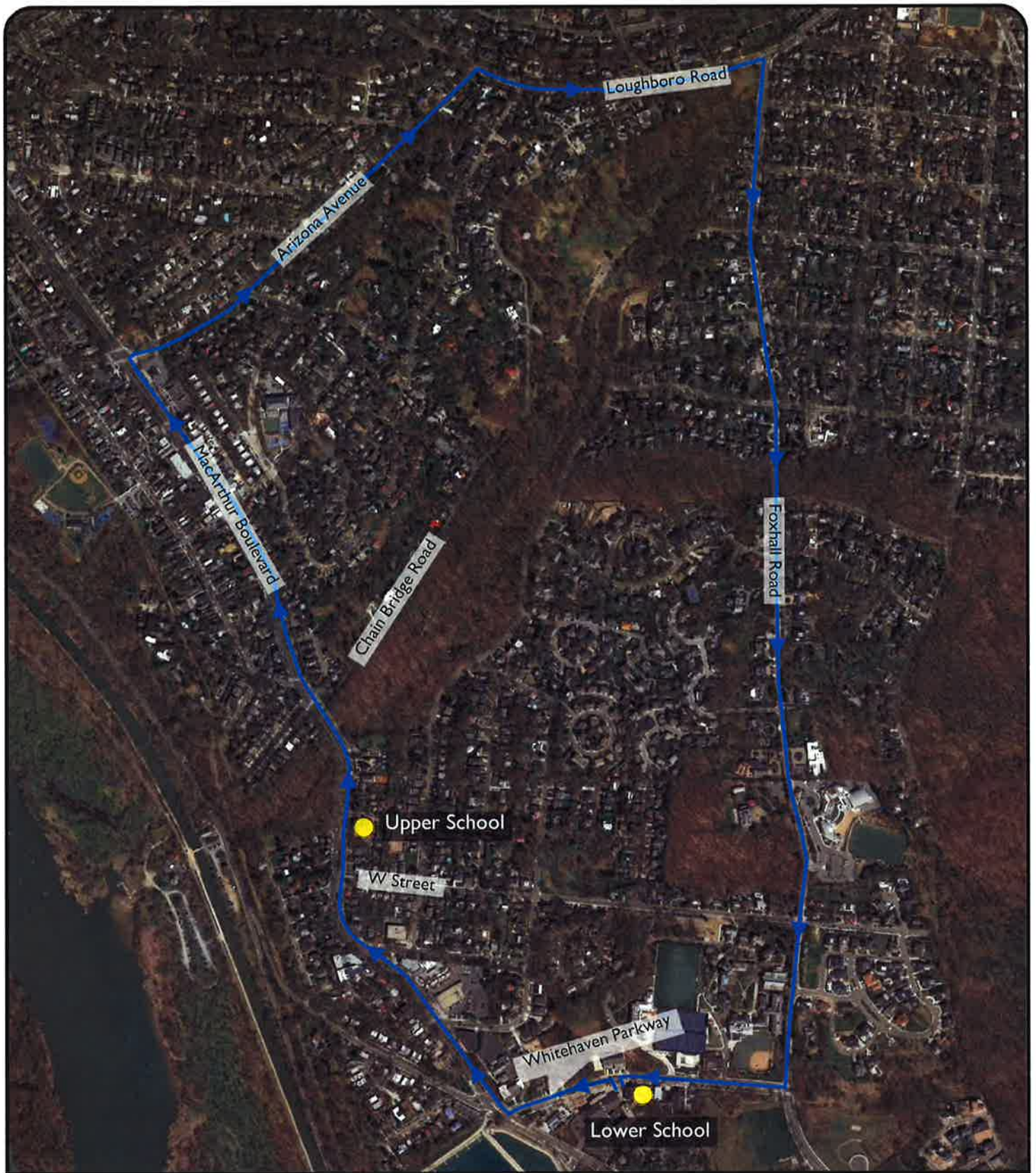


Figure 1
Existing Bus Route



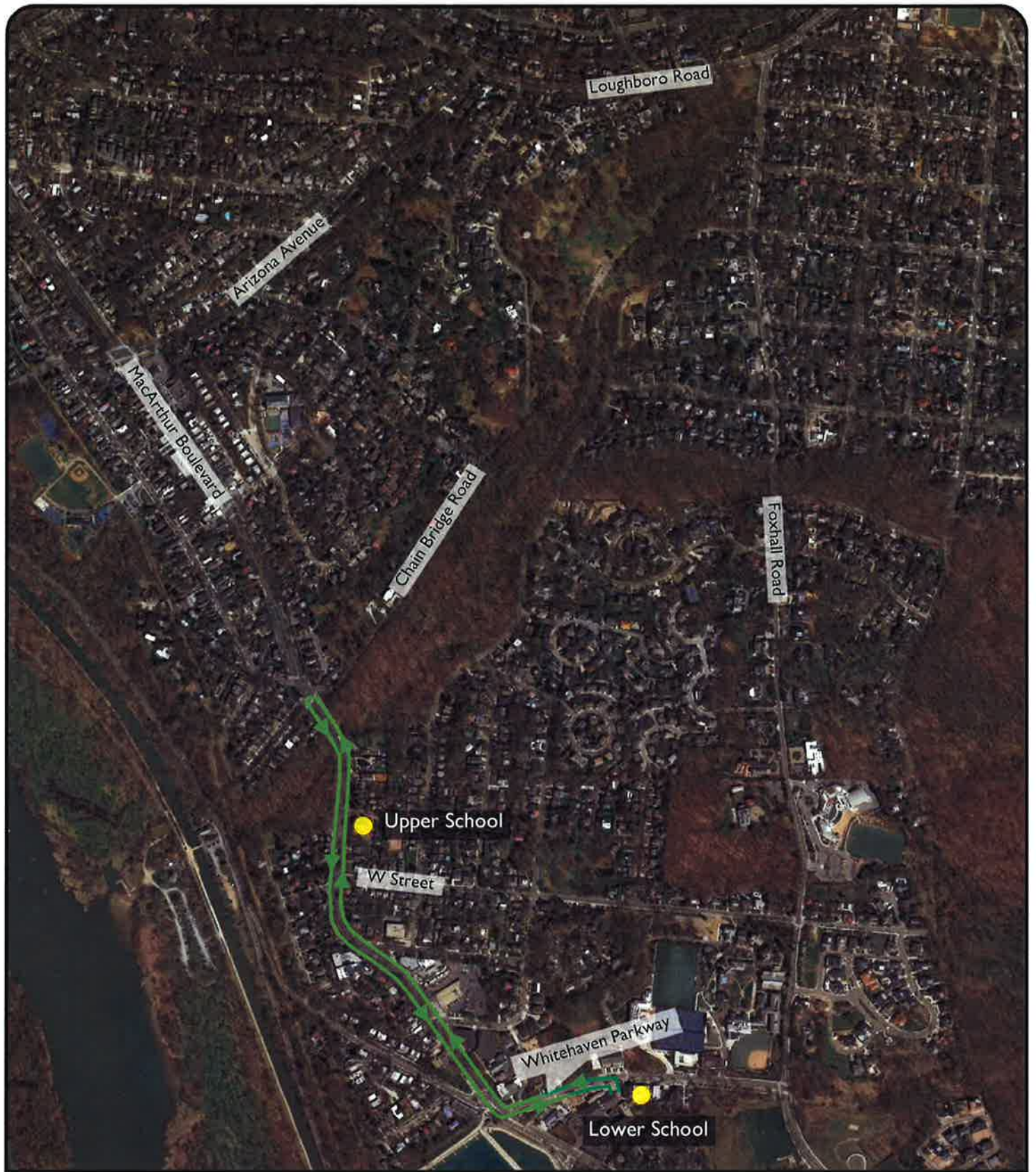


Figure 2
Proposed Bus Route





Figure 3
U-Turn at MacArthur Boulevard/Chain Bridge Road
32 Passenger School Bus

Vehicle Body
Front Tire Tread
Rear Tire Tread
Directional Path
Vehicle Path

