

**BOARD OF SUPERVISORS  
BUSINESS MEETING  
ACTION ITEM**

**SUBJECT:** Proposed Traffic Calming Measures in the Avonlea Community

**ELECTION DISTRICT(S):** Dulles

**CRITICAL ACTION DATE:** At the Pleasure of the Board

**STAFF CONTACT:** Eloisa L. Thring, Transportation and Capital Infrastructure  
Joe Kroboth, III, Transportation and Capital Infrastructure

**PURPOSE:** To authorize the use of \$67,000 in the Capital Improvement Program Traffic Calming Contingency account for the installation of traffic calming measures in the Avonlea community in the Dulles Election District.

**RECOMMENDATION:** Staff recommends that the Board of Supervisors (Board) authorize the use of \$67,000 in the Capital Improvement Program (CIP) Traffic Calming Contingency account for the installation of traffic calming measures in the Avonlea community in the Dulles Election District.

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**BACKGROUND:** The Avonlea subdivision is a planned community represented by the Avonlea Homeowners Association (HOA). The community is located southwest of Tall Cedars Parkway (Route 2200) and Pinebrook Road (Route 827) (Attachment 1). The Avonlea community consists of 512 residences with amenities consisting of a clubhouse and lounge, two pools, tennis and basketball courts, fitness center, tot lots and walking/biking trails. Avonlea Drive (Route 3284), running northwest to southeast runs mid-section of the community, has a posted speed limit of 25 mph, is classified as local roadway in the current *Countywide Transportation Plan*, and is in the Virginia Department of Transportation (VDOT) Secondary Roadway System.

In July 2017, Supervisor Letourneau's office received a letter from Avonlea HOA requesting a traffic calming study due to the perceived excessive speeding on Avonlea Drive (Attachment 2).

Under the November 2017 VDOT Traffic Calming Guide for Neighborhood Streets, the street proposed for traffic calming must have a posted speed limit of 25 mph or less and have an 85<sup>th</sup> percentile operating speed of 10 mph or more above the speed limit in at least one travel direction. Furthermore, the daily traffic volume on a street is used to determine appropriate traffic calming measures.

In September 2017, DTCI collected speed and traffic volume data over a 48-hour period at two locations on Avonlea Drive. The collected data, listed in Table 1, indicates that the 85<sup>th</sup> percentile exceeded the speed limit by at least 13 mph. According to the 2017 VDOT Traffic Calming guidelines, this street qualifies for physical and non-physical traffic calming measures.

**Table 1: Speed Study Results**

| Location   | 85 <sup>th</sup> Percentile Speed<br>(mph) | Traffic Volume<br>(vpd) |
|--|--|-------------------------|
| Avonlea Drive, north of Castleton Drive (Route 3281) | 39   | 718                     |
| Avonlea Drive, south of Castleton Drive              | 38   | 892                     |

To address the excessive speeds on Avonlea Drive, DTCI is proposing the installation of two “*Watch for Children*” signs at the community’s entry points, two pole mounted speed display (PMSD) signs on Avonlea Drive and one speed hump, which are depicted on Attachment 1. The proposed speed hump with associated signage and striping will be maintained by VDOT. Perpetual maintenance of the “*Watch for Children*” and PMSD signs will be the responsibility of Loudoun County Department of General Services (DGS). The traffic calming plan was approved by VDOT Traffic Engineering on October 5, 2018.

According to the 2017 VDOT Traffic Calming guidelines, approval for the installation of the proposed traffic calming measures must be accompanied with community support of the impacted streets via ballot process, which requires more than 50% of occupied residences in the survey area support the proposed traffic calming plan. As illustrated on Attachment 1, the survey area consisted of 352 households. As a result of the ballot process, 192 ballots (55%) indicated agreement of the proposed traffic calming plan. Additionally, the PMSD signs directly front common HOA property and the Avonlea HOA supports the location and their installation (Attachment 3).

Currently the inventory of PMSD signs in Loudoun County total 26 signs. Thus, the proposed plan will bring the total number of PMSD signs to 28. DGS has agreed to maintain additional PMSD signs installed by the County via the County’s Traffic Calming Program. The annual maintenance cost for each device is approximately \$250. Maintenance is typically performed by the original installer. Sufficient funding for the maintenance is available in DGS’ current budget.

**Table 2: Anticipated Number of Pole Mounted Speed Display Signs in Loudoun County**

|   |    |
|---|----|
| Current Inventory of PMSD Signs in Loudoun County                 | 26 |
| Number of Proposed PMSD Signs in the Avonlea Traffic Calming Plan | 2  |
| Anticipated Total Number of PMSD Signs                            | 28 |

**ISSUES:** DTCI does not anticipate any issues regarding the proposed installation of traffic calming measures outlined herein.

**FISCAL IMPACT:** The total cost estimate for the installation of the speed hump and its associated signage, purchase and installation costs of the proposed pole mounted speed display signs and “Watch for Children” signs in the Avonlea community is \$67,000. The current available balance in the CIP Traffic Calming Contingency account in the Capital Fund is \$7,502 and the FY 2020 budget includes an increase of \$250,000; therefore, there are sufficient funds to complete this initiative. If the proposed recommendations are approved by the Board, the remaining balance of the FY 2020 CIP Traffic Calming Contingency account will be \$190,502 (Table 3).

**Table 3: CIP Contingency Account Anticipated Expenditure**

|   |            |
|---|------------|
| FY 2019 CIP Traffic Calming Contingency Account Balance                   | \$7,502    |
| FY 2020 CIP Traffic Calming Contingency Budget Increase                   | \$250,000  |
| Estimated Cost for Avonlea Traffic Calming Initiative                     | (\$67,000) |
| Expected Remaining Balance of FY 2020 Traffic Calming Contingency Account | \$190,502  |

**DRAFT MOTIONS:**

1. I move that the Board of Supervisors direct staff to prepare a budget adjustment in the amount of \$67,000 from the Fiscal Year 2020 Traffic Calming Contingency account in the Capital Fund for the installation of traffic calming measures in the Avonlea community in the Dulles District.

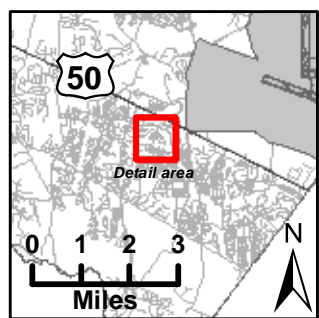
OR

2. I move an alternate motion.

**ATTACHMENTS:**

1. Proposed Location of Traffic Calming Measures and Ballot Survey Area Map
2. Avonlea Homeowners Association Request Letter Dated July 20, 2017
3. Avonlea Homeowners Association Traffic Calming Plan Approval Letter Dated May 20, 2019





- "WATCH FOR CHILDREN" sign
- Pole Mounted Speed Display (PMSD)
- Speed hump
- Avonlea petition area
- Loudoun County facility
- Parcel



**Avonlea**  
 Proposed Traffic Calming  
 Dulles Election District

Created by Loudoun County  
 Office of Mapping and Geographic Information  
 Map Number 2019-181  
 Created May 15, 2019

N

0 250 500 750 1,000  
 Feet

## Attachment 1



July 20, 2017

Supervisor Matt Letourneau  
1 Harrison Street, S.E. 5th Floor  
P.O. Box 7000, Leesburg, VA 20177

Dear Supervisor Letourneau:

Resulting from Avonlea's meeting with representatives of VDOT and Loudoun County last week, the Avonlea Homeowners Association requests a formal traffic calming study be conducted for the Avonlea Community by Loudoun County. Many residents, visitors to the community, and local commuters cutting through the neighborhood are speeding excessively and not adhering to the posted speed limits placing our residents and guests (especially our young children) at risk. We have attempted to educate our residents and others through, among others, the use of temporary signage, postcards, blast emails, community newsletters, and announcements at publicly attended board and other meetings. These "education" and "awareness" efforts to date have failed. Clearly, we need a better solution. A formal traffic calming study performed by Loudoun County resulting in a comprehensive traffic calming solution backed up with enforcement is our only way forward.

The Avonlea Homeowners Association has designated Jim Intihar as our point of contact to work with Loudoun County, VDOT, and others to determine and implement an effective "traffic calming" solution for Avonlea. Jim Intihar's contact information follows:

Mobile Phone: (703) 981-2424  
email: jim@minutemanmarketing.com

As always, Thank You for all your support.

Regards,



Seth Weise  
President, Avonlea Homeowners Association

**AVONLEA Homeowners Association (AVONLEA HOA)**

24950 Avonlea Drive; Chantilly, Va 20152

20 May 2019

From: Ted S Ballowe, President, AVONLEA BOD/HOA

To: Carolina Siguenza, Loudoun County Transportation and Capital Infrastructure

Subj: **AVONLEA Traffic Calming Proposal for AVONLEA Drive**

Carolina,

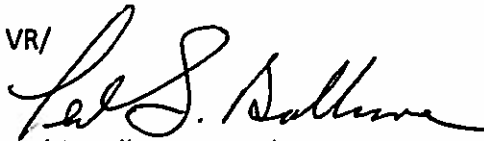
We completed the survey and had an overwhelming positive support for the VDOT proposed plans to install Traffic Calming measures along AVONLEA Drive. As part of that approval process, we attempted to obtain signatures of residents from homes near to where the pole-mounted speed monitors would be placed. We were not able to get them to respond.

The AVONLEA BOD unanimously concurs with our residents and approves the installation of the VDOT traffic calming package and requests that installation efforts proceed as soon as possible.

The AVONLEA BOD also requests to be included in the final decision for specific placements of the various components. It is our intent that all items are placed adjacent to common HOA property in an effort to minimize impacts directly in front of private residences.

Please let us know if you have any questions or if any additional clarifications are required.

VR/



Ted S. Ballowe, President, AVONLEA BOD/HOA

Copy to: Kristine Caraway, National Realty Partners (NRP)  
365 Herndon Parkway, Suite 106, Herndon, Va 20170

