



TO: Mayor and Town Council

April 19, 2022

SUBJECT: Resolution No. 27-2022, authorizing the installation of traffic calming measures on Greenbrook Drive, St. Christopher Drive, St. David Drive and Harlan Drive

BACKGROUND

This report recommends that the Town Council adopt Resolution No. 27-2022 authorizing the implementation of traffic calming measures including traffic signs, pavement markings and striping, three (3) speed lumps, curb extensions and crosswalks at three (3) locations, and two (2) radar speed display signs on Greenbrook Drive (between El Capitan Drive and Camino Ramon), St. Christopher Dr, St. David Dr, and Harlan Dr. The traffic calming measures are proposed as a result of implementation of the Neighborhood Traffic Management Program (“NTMP”) for the Greenbrook Drive area neighborhood, south of El Capitan Drive. During the NTMP process, concerns expressed to the Town included continued incidents of speeding and cut-through traffic.

DISCUSSION

Throughout 2018, Town staff met with residents of the Greenbrook Drive area neighborhood to discuss their traffic safety concerns. Three neighborhood meetings were held where staff presented data on prevailing traffic conditions including vehicular speeds and volumes, and pedestrian and bicycle volumes. Options for traffic calming measures were presented and vetted at length at these meetings. Ultimately, traffic calming plans were developed for Greenbrook Drive, St. Christopher Drive, St. David Drive and Harlan Drive,. Subsequently, neighborhood residents began circulating petitions and gathering signatures as part of the NTMP process requirements. Ultimately, the Town received a completed neighborhood petition for St. David Drive in 2019 and petitions for St. Christopher Drive and Greenbrook Drive in 2022 (Attachment B).

Generally, the prevailing speeds and volumes on the subject streets were found to meet the criteria for traffic calming measures, as prescribed in the NTMP guidelines. As this NTMP effort includes multiple streets, a holistic approach was taken by staff in analyzing the traffic data and developing traffic calming measures. The Town proceeded to conduct traffic surveys at six (6) locations along the subject streets. The surveys revealed prevailing (85th percentile) vehicular speeds ranging between 26.1 mph and 33.3 mph. The data confirmed that Greenbrook Drive, St. Christopher Drive and Harlan Drive experience unacceptable prevailing speeds (>32 mph). Results of the prevailing traffic speeds results are summarized in Table 1:

Table 1 – Greenbrook Drive Area Traffic Data

Street	Location	Vehicle Volumes (average daily traffic)	Prevailing Vehicle Speeds (85 th Percentile)
Greenbrook Drive	South of St. Christopher Drive	3,152	29.2 mph
Greenbrook Drive	South of Harlan Drive	5,999	33.3 mph
St. Christopher Drive	West of Harlan Drive	1,243	33.1 mph
Harlan Drive	South of St. Christopher Drive	452	29.7 mph
Harlan Drive	South of St. Greenbrook Drive	2,943	33.2 mph
St. David Drive	Mid-segment	442	26.1 mph

Traffic Calming Plan Development

Based on evaluation of traffic data, and in conjunction with extensive input received from residents, staff proceeded to develop a comprehensive traffic calming plan for Greenbrook Dr, St. Christopher Drive, St. David Drive and Harlan Drive to address the speeding and cut-through traffic issues. The proposed traffic calming plan elements for the four subject streets are provided as Attachment C, summarized as follows (Table 2):

Table 2- Traffic Calming Plan

Street	Location/Limits	Traffic Calming Measures
Greenbrook Drive	El Capitan Drive to Camino Ramon	<ul style="list-style-type: none"> ▪ Radar Display Sign (1)¹ ▪ Pavement Legends - “25 MPH” and Bicycle “Sharrows” ▪ Traffic Signs - 25 MPH speed limit, Bicycle “Share the Road” ▪ Raised Crosswalks, curb extensions and associated signage at three locations²
St. Christopher Drive	Entire length	<ul style="list-style-type: none"> ▪ Radar Display sign (1) ▪ Pavement Legends - “25 MPH” ▪ Traffic Signs - 25 MPH speed limit ▪ Pavement Striping - centerline and shoulders
St. David Drive	Entire length	<ul style="list-style-type: none"> ▪ Speed Lumps (3) and Speed Lumps/15 MPH advisory signage (2)
Harlan Drive ³	Entire length	<ul style="list-style-type: none"> ▪ Crosswalk striping across intersecting minor streets ▪ Pavement Legends - “25 MPH” and Bicycle “Sharrows” ▪ Traffic Signs - 25 MPH speed limit and Bicycle “Share the Road”

¹Total of two radar signs - additional radar sign previously approved/purchased by Town

²Recommended as a Phase II, grant-funded project

³Staff recommendation only - petition not received from Harlan Drive

Petition Process

As previously described, neighborhood petitions were circulated by residents with the associated traffic calming plans for the subject streets. Due to several factors, including the Covid-19 pandemic, the resident-driven petition process took several years to complete, with the St. David Drive petition first submitted in 2019 followed by the Greenbrook Drive and St. Christopher Drive petitions in 2022. The petitions met the required 70% (primary street)/50% (adjacent street) resident support criteria required in the NTMP Guidelines for Town Council consideration. To date, Harlan Drive has not submitted its petition for traffic calming measures that included speed lumps at two locations and centerline and shoulder pavement striping.

Subsequently, as part of this NTMP approval, staff is recommending the implementation of 25 MPH and bicycle share-the-road (“Sharrows”) pavement legends and crosswalk striping measures on Harlan Drive as routine traffic safety improvements, as summarized in Table 2, and shown in Attachment C. It is to be noted that pavement legend “sharrows” on Harlan Drive are also a recommendation in the Townwide Bicycle Master Plan. Consideration of any additional traffic calming measures on Harlan Drive would be considered in the future if residents were able to produce a petition meeting the NTMP requirements.

Costs and Phasing

The total cost of the recommended traffic calming measures is approximately \$212,000. Due to the extensive cost and scope, it is recommended that the implementation of the measures be completed in two phases. Phase I consists of all recommended signing and striping, pavement markings, and radar sign installations at a cost of \$70,000, and would be implemented immediately upon Town Council approval.

Phase II consists of the design and construction of raised crosswalks, curb extensions and associated signing and striping at three (3) proposed locations on Greenbrook Drive at a cost of \$142,000. Due to the extensive cost, it is recommended that grant funding be pursued to cover the design and construction of this phase and would be completed upon successful procurement of funds at a date to be determined.

PUBLIC CONTACT

An informational meeting was hosted by Town staff on March 28, 2022 via Zoom to provide area residents with an update on the NTMP effort and traffic calming plan recommendations (Attachment D). Notification of the Town Council meeting was circulated to area residents (Attachment E). Posting of the meeting agenda serves as a notice to the general public.

FISCAL IMPACT

The costs associated with purchase and installation of the recommended Phase I traffic calming measures is approximately \$70,000. Sufficient funds for these improvements have been appropriated in the 2021/22 Capital Improvement Program as part of CIP No. C-305, Traffic Management Program. (Attachment F).

RECOMMENDATION

Adopt Resolution No. 27-2022, authorizing the installation of traffic calming measures on Greenbrook Drive, St. Christopher Drive, St. David Drive and Harlan Drive.

Prepared by:



Andrew Dillard
Transportation Manager

Reviewed by:



Joseph Calabrigo
Town Manager

Attachments: A - Resolution No. 27-2022
 B - Petitions in Support of Proposed Traffic Calming Measures
 C - Maps of Proposed Traffic Calming Measures
 D - 3/28/22 Neighborhood Meeting Notification
 E - 4/19/22 Town Council Meeting Notification
 F - CIP Page No. C-305

RESOLUTION NO. 27-2022

AUTHORIZING THE INSTALLATION OF TRAFFIC CALMING MEASURES ON GREENBROOK DRIVE, ST. CHRISTOPHER DRIVE, ST. DAVID DRIVE AND HARLAN DRIVE

WHEREAS, Greenbrook Drive, St. Christopher Drive, St. David Drive and Harlan Drive, are public streets maintained by the Town of Danville; and

WHEREAS, Goal 12 of the Town of Danville *General Plan* directs the Town to “Provide for safe and efficient travel on Town of Danville streets”; and

WHEREAS, Policy 14.01 of the Town of Danville *General Plan* directs the Town to “Implement neighborhood traffic management measures, which increase neighborhood livability, discourage speeding, and ensure vehicle, pedestrian, and bicycle safety”; and

WHEREAS, as part of 2021/22 Capital Improvement Program Project No. C-305, Traffic Management Program, the Town Council has appropriated funding for installation of traffic calming measures; and

WHEREAS, the resident petition and consent of adjacent property owners have secured the required support for installation of traffic signs, pavement markings and striping, three (3) speed lumps, curb extensions and crosswalks at three (3) locations, and two (2) radar speed display signs; and

WHEREAS, the purpose of the traffic calming measures is to elevate driver awareness of the posted 25 mph speed limit and, thus, lower prevailing speeds to within acceptable standards to enhance neighborhood livability; and

WHEREAS, 70% of residents of Greenbrook Drive between El Capitan Drive and Camino Ramon, St. Christopher Drive and St. David Drive, support this action; now, therefore be it

RESOLVED that the Danville Town Council authorizes the installation of traffic calming measures including traffic signs, pavement markings and striping, three (3) speed lumps, curb extensions and crosswalks at three (3) locations, and two (2) radar speed display signs on Greenbrook Drive, St. Christopher Drive, St. David Drive and Harlan Drive.

APPROVED by the Danville Town Council at a regular meeting on April 19, 2022, by the following vote:

AYES:

NOES:

ABSTAINED:

ABSENT:

MAYOR

APPROVED AS TO FORM:

ATTEST:

CITY ATTORNEY

CITY CLERK