

1 and Public Works (DTPW) Traffic Engineering Division for their review
2 and approval to lower the speed limit within the Village from 30 MPH to 25
3 MPH; and
4

5 **WHEREAS**, DTPW has approved the Village’s request to lower the
6 posted speed limit to 25 MPH only on residential local roads maintained
7 by the Village of Palmetto Bay in compliance with the memo dated July
8 21, 2017 (Attachment A); and
9

10 **WHEREAS**, The installation and maintenance of newly installed 25
11 MPH speed limit signs have to be processed through an
12 intergovernmental agency agreement with the DTPW; and
13

14 **WHEREAS**, The Administration is requesting the Village Council to
15 accept the 2017 Village-wide Residential Speed Limit report and further
16 authorize the Village Manager to take all action necessary to enter into
17 an intergovernmental agency agreement with DTPW for installation and
18 maintenance of 25 MPH speed limit signage; and
19

20 **WHEREAS**, Village administration request Village Council approval
21 of an amount up to \$5,000.00, for the purchase of 25 MPH signage for
22 installation on streets with permanent traffic calming devices, near
23 schools/parks and by petition on local residential roads maintained by the
24 Village of Palmetto Bay that have 65% vote of approval to lower speed
25 limit.
26

27 **NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE**
28 **OF PALMETTO BAY, FLORIDA, THAT:**
29

30 **Section 1.** Village Council to accept the 2017 Village-wide
31 Residential Speed Limit report (Attachment A) and further authorize the
32 Village Manager to take all action necessary to enter into an
33 intergovernmental agency agreement for installation and maintenance of
34 25 MPH speed limit signs on streets with permanent traffic calming
35 devices, near schools/parks and by petition on local residential roads
36 maintained by the Village of Palmetto Bay that have 65% vote of approval
37 to lower speed limit.
38

39 **Section 2.** The Village Council accepts and approves the funding
40 in an amount up to \$5,000.00 for installation and maintenance of new 25

1 MPH signage to be placed on all local residential roadways throughout
2 the Village more specifically, near parks and where permanent traffic
3 calming devices have been installed.
4

5 **Section 3.** The Village Manager is authorized to proceed with
6 purchase and installation of new 25 MPH signs.
7

8 **Section 4.** This Resolution shall take effect immediately upon its
9 adoption.
10

11 **PASSED** and **ADOPTED** this 5th day of February, 2018.
12

13 Attest:

14
15 DocuSigned by:
16 *Missy Arocha*
17 _____
18 6EDC211E5E8C48C...
19 Missy Arocha
20 Village Clerk

DocuSigned by:
Eugene Flinn

3B8854AD569F494...
Eugene Flinn
Mayor

21 **APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE USE**
22 **AND RELIANCE OF THE VILLAGE OF PALMETTO BAY, FLORIDA**
23 **ONLY:**

24 DocuSigned by:
25 *Dexter W. Lehtinen*
26 _____
27 1B1D06E71321445...
28 Dexter W. Lehtinen
29 Village Attorney

30 **FINAL VOTE AT ADOPTION:**

- 31 Council Member Karyn Cunningham YES
- 32 Council Member David Singer YES
- 33 Council Member Larissa Siegel Lara YES
- 34 Vice-Mayor John DuBois YES
- 35 Mayor Eugene Flinn YES



Transportation and Public Works
Traffic Engineering Division
111 NW 1st Street • Suite 1510
Miami, Florida 33128
T 305-375-2030 F 305-372-6064

July 21, 2017

Corrice E. Patterson, Director
Public Works Department
Village of Palmetto Bay

Re: Village Wide Residential Speed Limit Reduction Report – 25 MPH

Dear Ms. Patterson

The Department of Transportation and Public Works (DTPW), Traffic Engineering Division received the *Village-Wide Residential Speed Limit* report. After the review of the provided document DTPW has approved your request to lower the posted speed limit to 25 MPH only on residential local roads maintained by the Village of Palmetto Bay. DTPW does not see an adverse impact on traffic operation of the residential streets or on surrounding area roadway network.

The Village of Palmetto Bay cannot install signs along:

- Arterials
- Collectors
- County roads

The installation and maintenance of the signs have to be processed through an Intergovernmental Agency Agreement with the DTPW. A copy of the design plans, depicting the location of the new speed limit signs, shall be submitted to DTPW for its review and written approval.

Should you have any questions or need additional information, please do not hesitate to contact our office at (305) 375-2030.

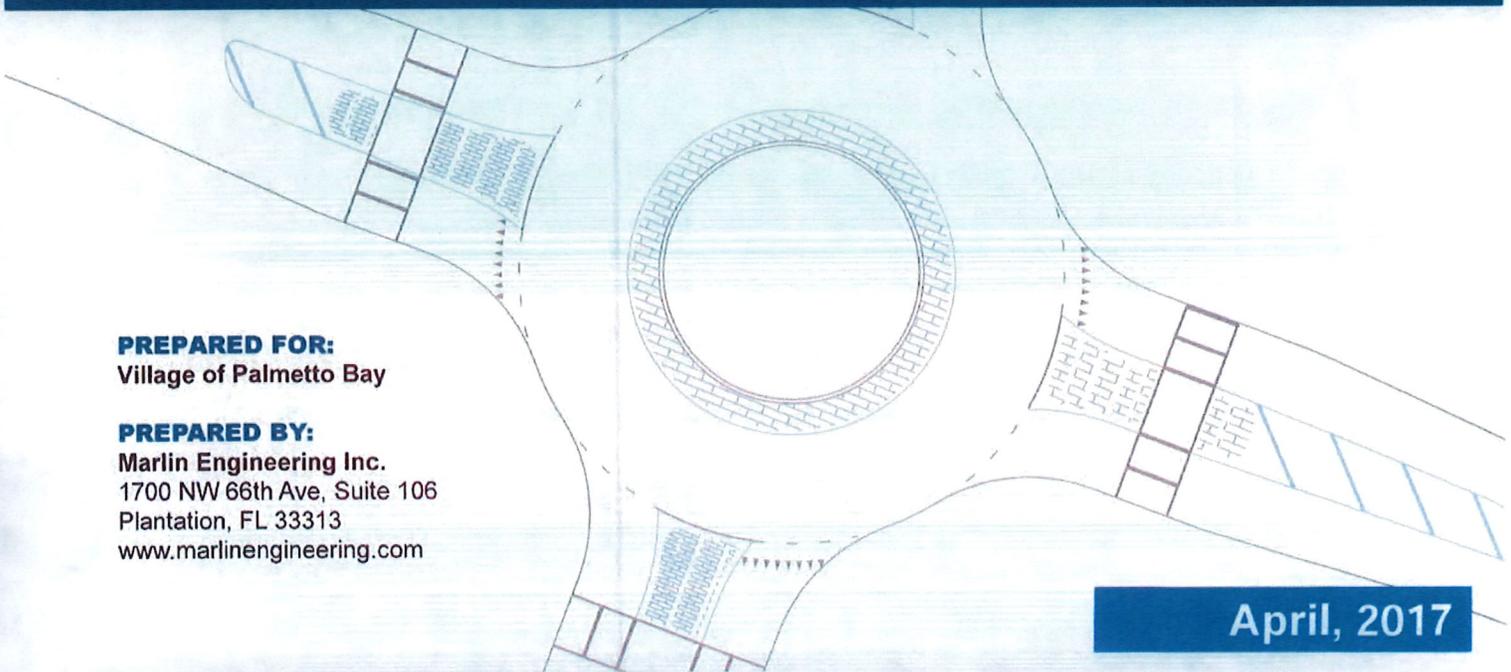
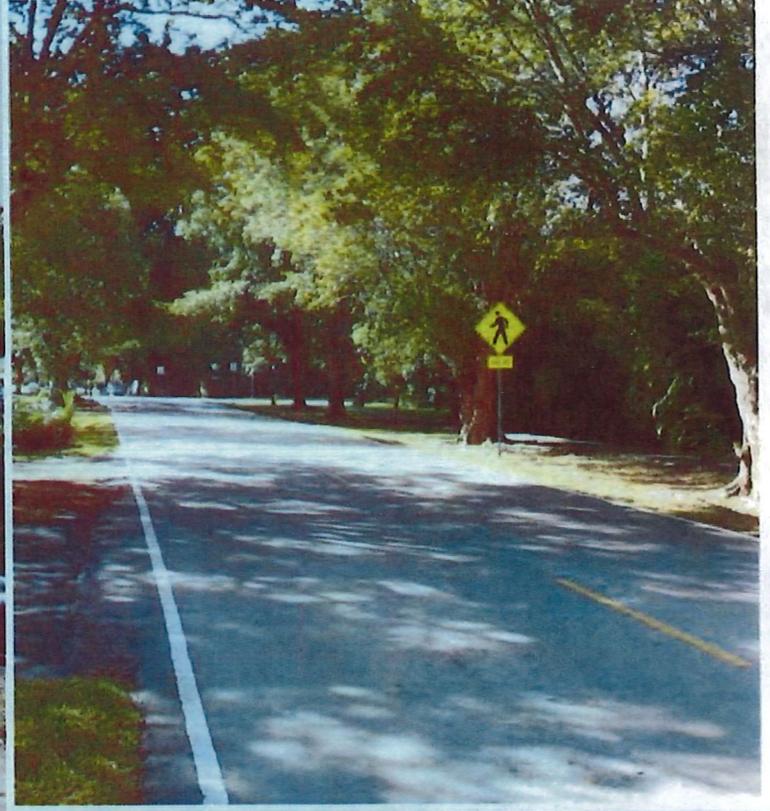
Sincerely,

A handwritten signature in blue ink, appearing to read "Darlene M. Fernandez". The signature is stylized and loops around the text "Sincerely,".

Darlene M. Fernandez, P.E.,
Assistant Director, Traffic Services
Department of Transportation and Public Works



Village of Palmetto Bay Village-Wide Residential Speed Limit



PREPARED FOR:
Village of Palmetto Bay

PREPARED BY:
Marlin Engineering Inc.
1700 NW 66th Ave, Suite 106
Plantation, FL 33313
www.marlinengineering.com

April, 2017



PROFESSIONAL ENGINEER CERTIFICATE

I hereby certify that I am a registered professional engineer in the State of Florida practicing with Marlin Engineering, Incorporated, a corporation authorized to operate as an engineering business by the State of Florida Department of Professional Regulation, Board of Professional Engineers, and that I have prepared or approved the evaluation, findings, opinions, conclusions, or technical advice hereby for:

PROJECT: Village-wide Residential Speed Limit

LOCATION: Miami, FL

PREPARED FOR: Village of Palmetto Bay

I acknowledge that the procedures and references used to develop the results contained in these computations are standard to the professional practice of transportation engineering as applied through professional judgment and experience.

NAME: James E. Spinks, PE, PTOE

P.E. NO.: 66775

DATE: May, 2017

SIGNATURE: 





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Appendix A – Village-Wide 85th Percentile Speed Data



1.0 INTRODUCTION

The Village of Palmetto Bay is interested in reducing the speed limit on all residential streets from 30 mph to 25 mph. The primary intent of the speed limit reduction is to improve vehicular, pedestrian, and bicyclist safety. Marlin Engineering Inc., on behalf of the Village, conducted an engineering and traffic investigation to determine if such a change is reasonable and in conformity with criteria promulgated by the Florida Department Of Transportation (FDOT).

A traffic analysis was conducted based on the methodology submitted and approved by Miami-Dade County (MDC) staff. The methodology is based on the guidelines and procedures outlined in the manual Speed Zone for Highways, Roads and Streets in Florida.

1.1. Study Area

The Village of Palmetto Bay is located east of SR 5/US1/South Dixie Highway which marks the Village limit to the west. It is also bounded by SW 184th Street (to the south) and SW 136th Street (to the north), extending to the east all the way to Biscayne Bay and the City of Coral Gables (Northeast corner). (See **Figure 1**).



2.0 PROCEDURES FOR REDUCING RESIDENTIAL STREET SPEED LIMITS

In accordance with Florida Statutes sections 316.187 and 316.189 and Engineering and Traffic Investigation needs to be conducted for any alteration of speed limits. The Florida Department Of Transportation (FDOT) publication # 750-010-002 – *Speed Zoning for Highways, Roads and Streets in Florida*, dated March 2010 establishes the following:

“A speed limit should not differ from the 85th percentile speed by more than 3 mph and by less than 8 mph. A speed limit of 4 to 8 mph less than 85 percentile speed shall be supported by supplemental investigation.”

Therefore, in the case of reducing the residential speed limit to 25 mph within the Village, the calculated 85th percentile should be between 22 mph and 28 mph. If the calculated 85th percentile speed is between 29 mph and 33 mph, a supplemental investigation needs to be conducted before a recommendation is made. The supplemental investigation should include roadway items such as length of segment, alignment, roadway width, surface conditions, sight distance, traffic volume, crash experience, maximum comfortable speed in curves, side friction, signal progression, etc.

3.0 DATA COLLECTION

For the data collection purposes, the Village was divided into three zones. Vehicular speed data was collected for the months of May 2016, June 2016, November 2016, December 2016, January 2017 and February 2017 on the following roadway segments:

Zone 1

- SW 74 Ct between SW 168 St/Richmond Dr and SW 168 Tr
- SW 172 St between SW 85 Ave and SW 84 Ct
- SW 83 Ave between SW 176 St and SW 184 St/Eureka Dr
- SW 84 Ave between SW 168 St/ Richmond Dr and SW 170 Tr
- SW 78 Pl between SW 168 St/ Richmond Dr and SW 170 St
- SW 79 Ave between SW 176 St and SW 175 St
- SW 85 Ave between SW 172 St and SW 174 St



- SW 88 Ct between SW 168 St/ Richmond Dr and SW 170 St
- SW 170 Tr between SW 85 Ave and SW 84 Ct
- SW 172 St between SW 74 Ave and SW 76 Ave
- SW 82 Ct between SW 168 St/ Richmond Dr and SW 170 St
- SW 89 Ave between SW 168 St/ Richmond Dr and SW 170 St
- SW 170 St between SW 83 Ave and SW 78 Ave
- SW 170 St between SW 88 Ct and SW 89 Ave
- SW 175 St between SW 77 Ave/Palmetto Rd and SW 74 Ct
- SW 76 Ave between SW 169 St and SW 170 St
- SW 79 Ct between SW 168 St/Richmond Dr and SW 170 St
- SW 80 Ct between SW 168 St/Richmond Dr and SW 170 St
- SW 170 St between SR 5/US1/Dixie Hwy and SW 94 Ave
- SW 74 Ct between SW 174 St and SW 176 St
- SW 78 Ave between SW 168 St/Richmond Dr and SW 170 St

Zone 2

- SW 75 Ave between SW 156 St and SW 157 Tr
- SW 165 Tr between SW 84 Ave and SW 82 Ave
- SW 157 Tr between SW 75 Ave and Old Cuttler Rd
- SW 83 Ave between SW 168 St/Richmond Dr and SW 165 Tr
- SW 156 St between SW 77 Ave/Palmetto Rd and SW 75 Ave
- SW 73 Ct between SW 152 St/CoralReef Dr and SW 156 St
- SW 157 St between SR 5/US1/S Dixie Hwy and SW 92 Ave
- SW 162 St between SW 84 Ave and SW 82 Ave
- SW 166 St between SW 74 Ave and Old Cutler Rd
- SW 167 St between SW 74 Ave and Old Cutler Rd
- SW 89 Ave between SW 155 St and SW 160 St
- SW 90 Ave between SW 155 St and SW 160 St



Zone 3

- SW 148 St between SR 5/US1/S Dixie Hwy and SW 87 Ave/Galloway Rd
- SW 89 Ct between SW 150 Tr and SW 152 St/Coral Reef Dr
- SW 137 St between SW 75 Ave and SW 77 Ave/Palmetto Rd
- SW 137 St between SW 82 Ave and SW 80 Ave
- S Cartee Rd between Old Cutler Rd and SW 70 Ave/Farmer Rd
- SW 139 Tr between SW 82 Ave and SW 78 Ave
- SW 139 Tr between SW 77 Ave/Palmetto Rd and SW 78 Ave
- SW 70 Ave/Farmer Rd between SW 136 St/Howard Dr and SW 139 St
- SW 78 Ave between SW 193 St and SW 141 St
- SW 80 Ct between SW 136 St/Howard Dr and SW SW 138 St
- SW 70 Ave/Farmer Rd between S Cartee Rd and Old Cutler Rd.

4.0 DATA ANALYSIS

Traffic and speed counts were collected between the months of May 2016, June 2016, November 2016, December 2016, January 2017 and February 2017 and are provided in **Appendix A**. The average 85th percentile speed for each street segment was calculated. To determine the Village-Wide 85th percentile speed, the average of each zone was added and divided by the number of zones. The results of the analysis are shown in **Table 1**.



Zone	Direction	Street Name	Cross Streets	85th Percentile Speed (MPH)	85th Percentile Speed Zone Average
1	N-S	SW 74 CT	SW 168 ST/RICHMOND DR and SW 168 TR	20	27
1	E-W	SW 172 ST	SW 85 AVE and SW 84 CT	21	
1	N-S	SW 83 AVE	SW 176 ST and SW 184 ST/EUREKA DR	22	
1	N-S	SW 84 AVE	SW 168 ST/RICHMOND DR and SW 170 TR	23	
1	N-S	SW 78 PL	SW 168 ST/RICHMOND DR and SW 170 ST	24	
1	N-S	SW 79 AVE	SW 176 ST and SW 175 ST	24	
1	N-S	SW 85 AVE	SW 172 ST and SW 174 ST	27	
1	N-S	SW 88 CT	SW 168 ST/RICHMOND DR and SW 170 ST	27	
1	E-W	SW 170 TR	SW 85 AVE and SW 84 CT	28	
1	E-W	SW 172 ST	SW 74 AVE and SW 76 AVE	28	
1	N-S	SW 82 CT	SW 168 ST/RICHMOND DR and SW 170 ST	28	
1	N-S	SW 89 AVE	SW 168 ST/RICHMOND DR and SW 170 ST	28	
1	E-W	SW 170 ST	SW 83 AVE and SW 78 AVE	29	
1	E-W	SW 170 ST	SW 88 CT and SW 89 AVE	29	
1	E-W	SW 175 ST	SW 77 AVE/PALMETTO RD and SW 74 CT	29	
1	N-S	SW 76 AVE	SW 169 ST and SW 170 ST	29	
1	N-S	SW 79 CT	SW 168 ST/RICHMOND DR and SW 170 ST	29	
1	N-S	SW 80 CT	SW 168 ST/RICHMOND DR and SW 170 ST	29	
1	E-W	SW 170 ST	SR 5/US1/S DIXIE HWY and SW 94 AVE	30	
1	N-S	SW 74 CT	SW 174 ST and SW 176 ST	30	
1	N-S	SW 78 AVE	SW 168 ST/RICHMOND DR and SW 170 ST	30	
2	N-S	SW 75 AVE	SW 156 ST and SW 157 TR	21	28
2	E-W	SW 165 TR	SW 84 AVE and SW 82 AVE	24	
2	E-W	SW 157 TR	SW 75 AVE and OLD CUTLER RD	25	
2	N-S	SW 83 AVE	SW 168 ST/RICHMOND DR and SW 165 TR	26	
2	E-W	SW 156 ST	SW 77 AVE/PALMETTO RD and SW 75 AVE	28	
2	N-S	SW 73 CT	SW 152 ST/CORAL REEF DR and SW 156 ST	28	
2	E-W	SW 157 ST	SR 5/US1/S DIXIE HWY and SW 92 AVE	29	
2	E-W	SW 162 ST	SW 84 AVE and SW 82 AVE	29	
2	E-W	SW 166 ST	SW 74 AVE and OLD CUTLER RD	30	
2	E-W	SW 167 ST	SW 74 AVE and OLD CUTLER RD	30	
2	N-S	SW 89 AVE	SW 155 ST and SW 160 ST	30	
2	N-S	SW 90 AVE	SW 155 ST and SW 160 ST	30	
3	E-W	SW 148 ST	SR 5/US1/S DIXIE HWY and SW 87 AVE/GALLOWAY RD	25	28
3	N-S	SW 89 CT	SW 150 TR and SW 152 ST/CORAL REEF DR	25	
3	E-W	SW 137 ST	SW 75 AVE and SW 77 AVE/PALMETTO RD	27	
3	E-W	SW 137 ST	SW 82 AVE and SW 80 AVE	27	
3	E-W	S CARTEE RD	OLD CUTLER RD and SW 70 AVE/FARMER RD	28	
3	E-W	SW 139 TR	SW 82 AVE and SW 78 AVE	29	
3	E-W	SW 139 TR	SW 77 AVE/PALMETTO RD and SW 78 AVE	29	
3	N-S	SW 70 AVE/FARMER RD	SW 136 ST/HOWARD DR and SW 139 ST	29	
3	E-W	SW 78 AVE	SW 139 ST and SW 141 ST	29	
3	N-S	SW 80 CT	SW 136 ST/HOWARD DR and SW 138 ST	29	
3	N-S	SW 70 AVE/FARMER RD	S CARTEE RD and OLD CUTLER RD	30	

City-Wide 85th Percentile Speed Average

27



Table 1 – Palmetto Bay Village-Wide -25 MPH Speed Analysis

5.0 CONCLUSIONS

The Results of the engineering analysis shows that the calculated 85th percentile speed Village-Wide is 27 mph. This speed does not differ from the recommended speed limit (25 mph) by more than 3 mph nor is it less than 8 mph. Therefore, following the procedures established by Florida Department of Transportation (FDOT) and in accordance with the Florida Statutes, we recommend that the speed limit on all residential streets within the Village limits of Palmetto Bay be posted at 25 miles per hour (mph). The speed reduction will result in reduced stopping distance for vehicles and increase safety for pedestrians and bicyclists.



Appendix A – Traffic and Speed Data

Date	Street Name	BETWEEN	AND	Street Classification	85th Percentile Speed (MPH)
12/6/2016	S CARTEE RD	OLD CUTLER RD	SW 70 AVE/FARMER RD	Local Residential	28
2/14/2017	SW 137 ST	SW 75 AVE	SW 77 AVE/PALMETTO RD	Local Residential	27
2/28/2017	SW 137 ST	SW 82 AVE	SW 80 AVE	Local Residential	27
11/29/2016	SW 139 TR	SW 82 AVE	SW 78 AVE	Local Residential	29
11/30/2016	SW 139 TR	SW 77 AVE/PALMETTO RD	SW 78 AVE	Local Residential	29
1/13/2017	SW 148 ST	SR 5/US1/S DIXIE HWY	SW 87 AVE/GALLOWAY RD	Local Residential	25
12/6/2016	SW 70 AVE/FARMER RD	SW 136 ST/HOWARD DR	SW 139 ST	Local Residential	29
12/6/2016	SW 70 AVE/FARMER RD	S CARTEE RD	OLD CUTLER RD	Local Residential	30
12/13/2016	SW 78 AVE	SW 139 ST	SW 141 ST	Local Residential	29
2/14/2017	SW 80 CT	SW 136 ST/HOWARD DR	SW 138 ST	Local Residential	29
1/10/2017	SW 89 CT	SW 150 TR	SW 152 ST/CORAL REEF DR	Local Residential	25
2/28/2017	SW 156 ST	SW 77 AVE/PALMETTO RD	SW 75 AVE	Local Residential	28
1/13/2017	SW 157 ST	SR 5/US1/S DIXIE HWY	SW 92 AVE	Local Residential	29
2/28/2017	SW 157 TR	SW 75 AVE	OLD CUTLER RD	Local Residential	25
2/28/2017	SW 162 ST	SW 84 AVE	SW 82 AVE	Local Residential	29
2/28/2017	SW 165 TR	SW 84 AVE	SW 82 AVE	Local Residential	24
1/19/2017	SW 166 ST	SW 74 AVE	OLD CUTLER RD	Local Residential	30
1/19/2017	SW 167 ST	SW 74 AVE	OLD CUTLER RD	Local Residential	30
1/19/2017	SW 73 CT	SW 152 ST/CORAL REEF DR	SW 156 ST	Local Residential	28
2/28/2017	SW 75 AVE	SW 156 ST	SW 157 TR	Local Residential	21
2/28/2017	SW 83 AVE	SW 168 ST/RICHMOND DR	SW 165 TR	Local Residential	26
1/10/2017	SW 89 AVE	SW 155 ST	SW 160 ST	Local Residential	30
1/13/2017	SW 90 AVE	SW 155 ST	SW 160 ST	Local Residential	30
1/24/2017	SW 170 ST	SR 5/US1/S DIXIE HWY	SW 94 AVE	Local Residential	30
6/22/2016	SW 170 ST	SW 83 AVE	SW 78 AVE	Local Residential	29
6/23/2016	SW 170 ST	SW 88 CT	SW 89 AVE	Local Residential	29
6/23/2016	SW 170 TR	SW 85 AVE	SW 84 CT	Local Residential	28
6/15/2016	SW 172 ST	SW 74 AVE	SW 76 AVE	Local Residential	28
6/23/2016	SW 172 ST	SW 85 AVE	SW 84 CT	Local Residential	21
6/15/2016	SW 175 ST	SW 77 AVE/PALMETTO RD	SW 74 CT	Local Residential	29
1/24/2017	SW 74 CT	SW 174 ST	SW 176 ST	Local Residential	30
6/15/2016	SW 74 CT	SW 168 ST/RICHMOND DR	SW 168 TR	Local Residential	20
6/15/2016	SW 76 AVE	SW 169 ST	SW 170 ST	Local Residential	29
6/22/2016	SW 78 AVE	SW 168 ST/RICHMOND DR	SW 170 ST	Local Residential	30
6/22/2016	SW 78 PL	SW 168 ST/RICHMOND DR	SW 170 ST	Local Residential	24
5/24/2016	SW 79 AVE	SW 176 ST	SW 175 ST	Local Residential	24
6/22/2016	SW 79 CT	SW 168 ST/RICHMOND DR	SW 170 ST	Local Residential	29
6/22/2016	SW 80 CT	SW 168 ST/RICHMOND DR	SW 170 ST	Local Residential	29
6/22/2016	SW 82 CT	SW 168 ST/RICHMOND DR	SW 170 ST	Local Residential	28
2/22/2017	SW 83 AVE	SW 176 ST	SW 184 ST/EUREKA DR	Local Residential	22
5/26/2016	SW 84 AVE	SW 168 ST/RICHMOND DR	SW 170 TR	Local Residential	23
5/23/2016	SW 85 AVE	SW 172 ST	SW 174 ST	Local Residential	27
5/26/2016	SW 88 CT	SW 168 ST/RICHMOND DR	SW 170 ST	Local Residential	27
5/26/2016	SW 89 AVE	SW 168 ST/RICHMOND DR	SW 170 ST	Local Residential	28

ITEM 4E (VI)



To: Honorable Mayor and Village Council

Date: January 8, 2018

From: Councilmember Larissa Siegel Lara

Re: Implementation of 25mph
Speed Limit

PURPOSE OF THE PROPOSED ACTION:

The purpose of this memo is to require Administration to develop a Resolution requiring a 25 mile per hour speed limit to be installed on all streets that have traffic calming, on all locally owned streets near schools/parks and by petition on local streets that have more than 65% vote of approval to lower speed limit by residents of that street on the full length of the street.

MAJOR POINTS/REASONS FOR THE PROPOSED ACTION:

Approval of this proposed action will enact a Resolution to lower the speed limits that will create a safer environment on the local roads of the Village. It is also assumed that by reducing the speed limit to 25 mph, traffic cut through will be reduced.

PRELIMINARY ESTIMATE OF THE COST OF IMPLEMENTATION:

Costs for the approval of this item are to be determined by Administration.

SOURCE OF FUNDS TO PAY SUCH COSTS:

Source of funds to pay such costs will be from the Public Services Department.