

# **APPENDIX A**

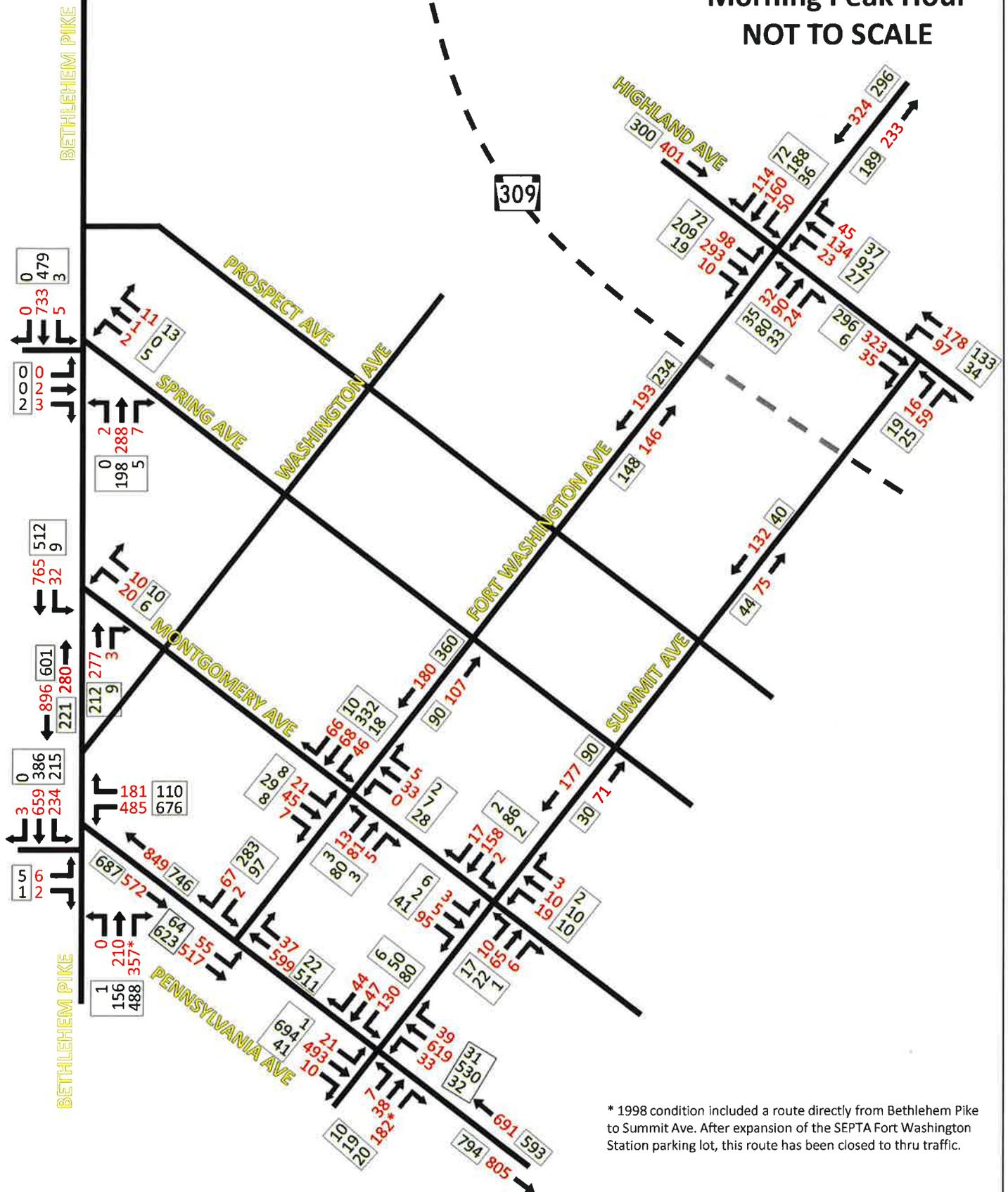
**Morning Peak Hour Comparison from 1998 - 2017  
Multiple Locations**

***Source: 1999 Traffic Calming Study and 2017 Traffic Counts***

**Afternoon Peak Hour Comparison from 1998 - 2017  
Multiple Locations**

***Source: 1999 Traffic Calming Study and 2017 Traffic Counts***

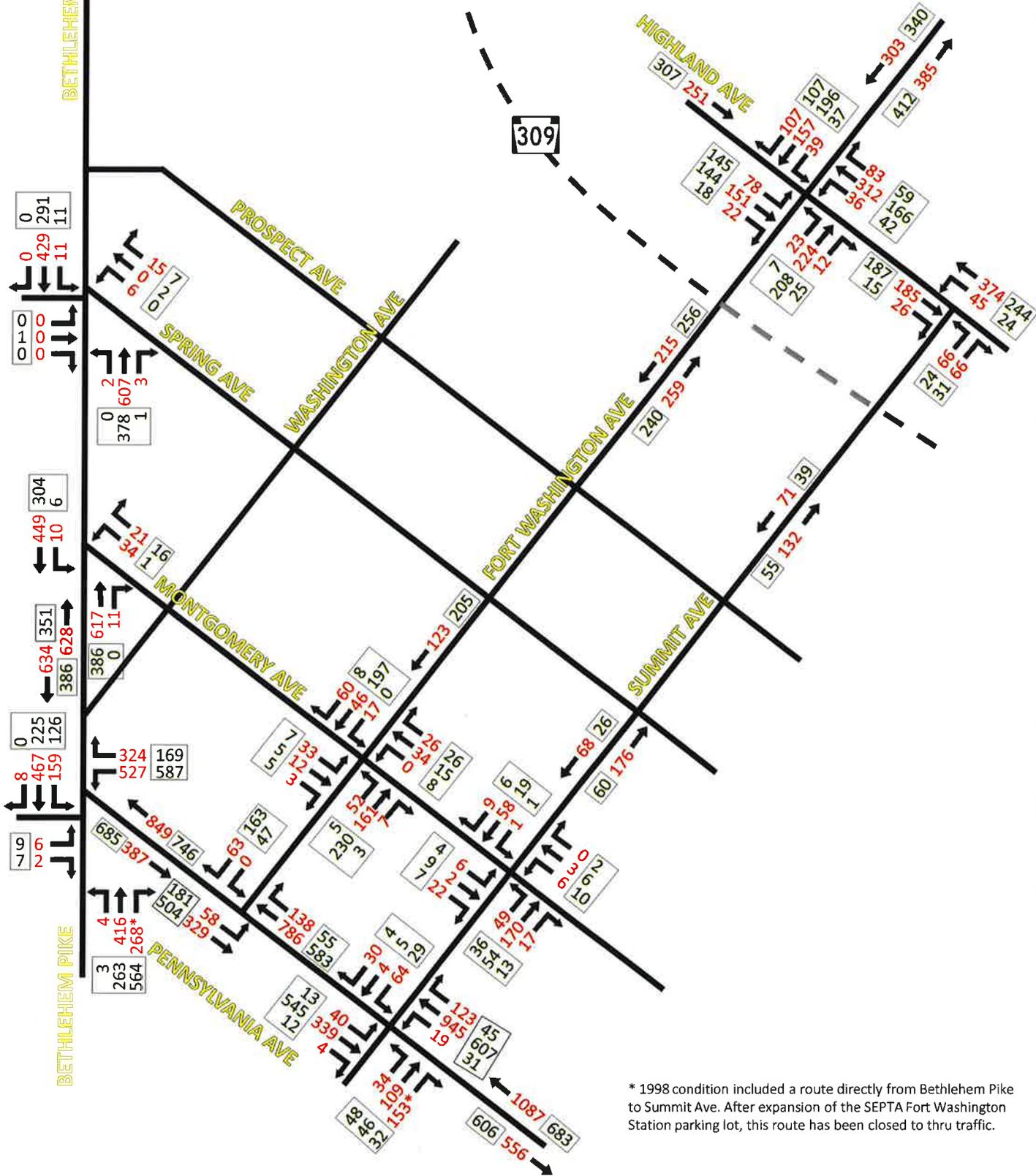
**Morning Peak Hour  
NOT TO SCALE**



\* 1998 condition included a route directly from Bethlehem Pike to Summit Ave. After expansion of the SEPTA Fort Washington Station parking lot, this route has been closed to thru traffic.

Traffic Comparison – Morning Peak Hour  
1998 Volume 2017 Volume

**Afternoon Peak Hour  
NOT TO SCALE**



\* 1998 condition included a route directly from Bethlehem Pike to Summit Ave. After expansion of the SEPTA Fort Washington Station parking lot, this route has been closed to thru traffic.

Traffic Comparison – Afternoon Peak Hour  
1998 Volume 2017 Volume

TRAFFIC CALMING & SAFETY ANALYSIS  
for Upper Dublin Township  
Fort Washington Ave & Summit Ave



April 2017

## **APPENDIX B**

### **Speed Studies**

- 1. Fort Washington Avenue - 200 Block**

***Source: 2017 Upper Dublin Police Department, April 2017***

- 2. Fort Washington Avenue - 500 Block**

***Source: 2017 Upper Dublin Police Department, February 2017***

- 3. Summit Avenue - 300 Block #1**

***Source: 2017 Upper Dublin Police Department, January 2017***

- 4. Summit Avenue - 300 Block #2**

***Source: 2017 Upper Dublin Police Department, April 2017***

# Upper Dublin Township Police Department

801 Loch Alsh Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

## Speed Enforcement Evaluator

**Location:**  
**223 FT. WASHINGTON AVENUE**

**Total Percentage of Enforceable Violations**

**GPS:**  
0' 0.0000 South  
0' 0.0000 East

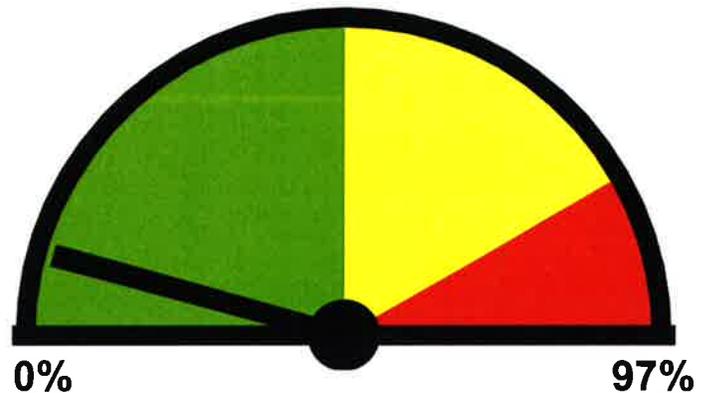
**Closest Cross Street:**  
SPRING AVENUE

**Analysis Dates:**  
Monday, April 03, 2017  
Monday, April 10, 2017

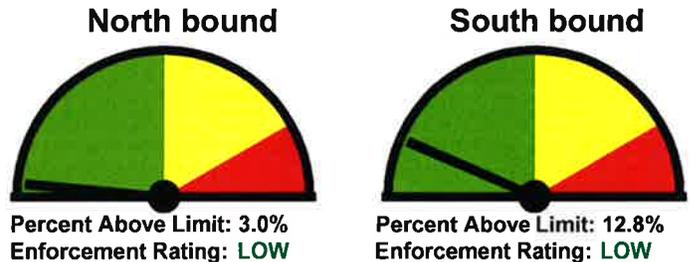
**Equipment Used:**  
SPEED SURVEY #1

**Installed By:**  
OFC. CIUFFETELLI #88

**Requested By:**



0% 97%  
**Posted Speed Limit:** 35 MPH  
**Enforcement Tolerance:** 10 MPH  
**Enforcement Limit:** 46 MPH & Up  
**Percentage Above Limit:** 8.4%  
**Enforcement Rating:** **LOW**



**North bound**  
Percent Above Limit: 3.0%  
Enforcement Rating: **LOW**

**South bound**  
Percent Above Limit: 12.8%  
Enforcement Rating: **LOW**

**Combined**

1-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	>70
26	429	195	197	763	3453	6193	3783	1092	225	52	10	0	2

85 percentile = 43

**North bound**

1-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	>70
2	20	39	104	519	2287	3020	1094	177	32	7	1	0	0

85 percentile = 40

**South bound**

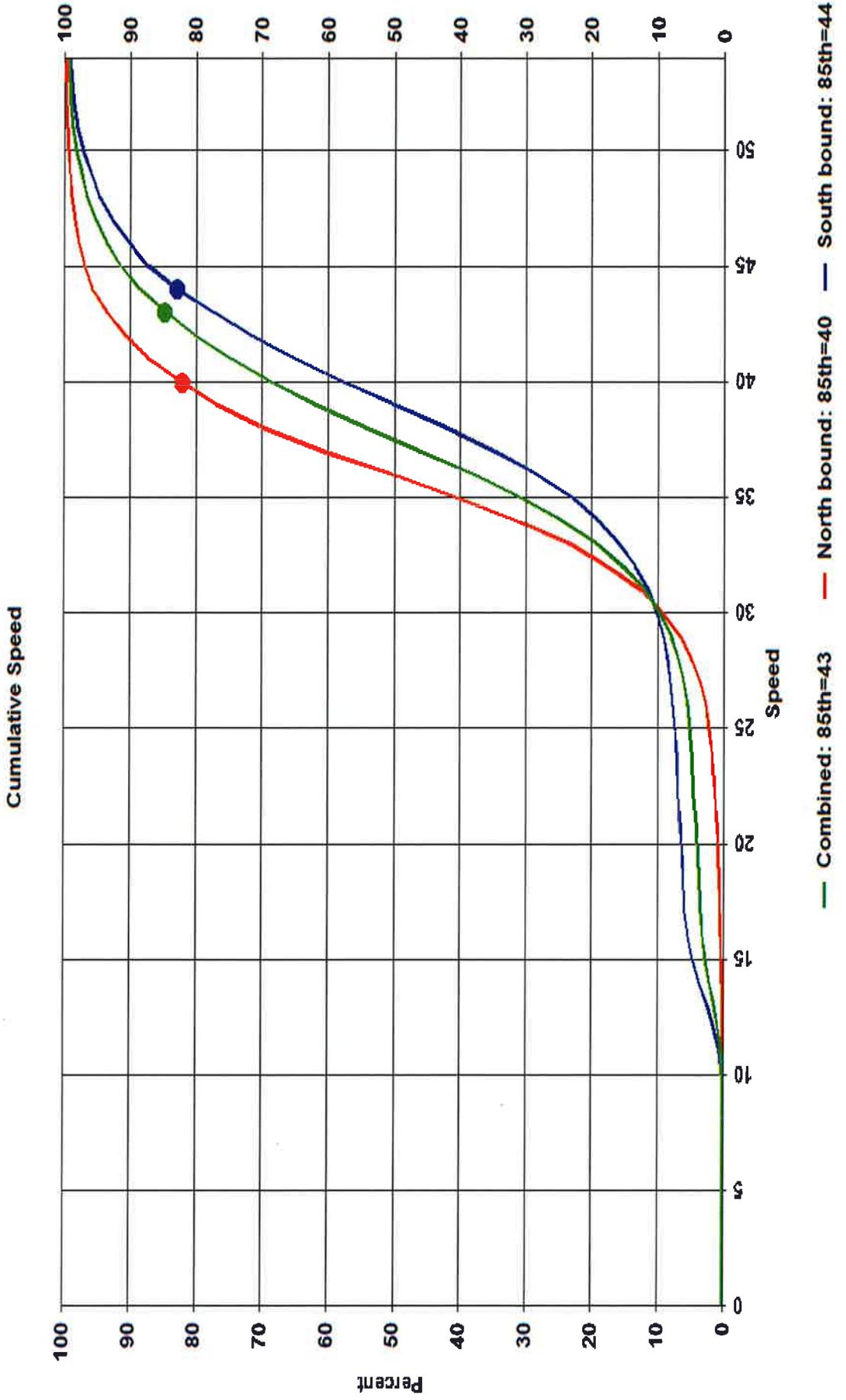
1-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	>70
24	409	156	93	244	1166	3173	2689	915	193	45	9	0	2

85 percentile = 44

# Upper Dublin Township Police Department

801 Loch Aish Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

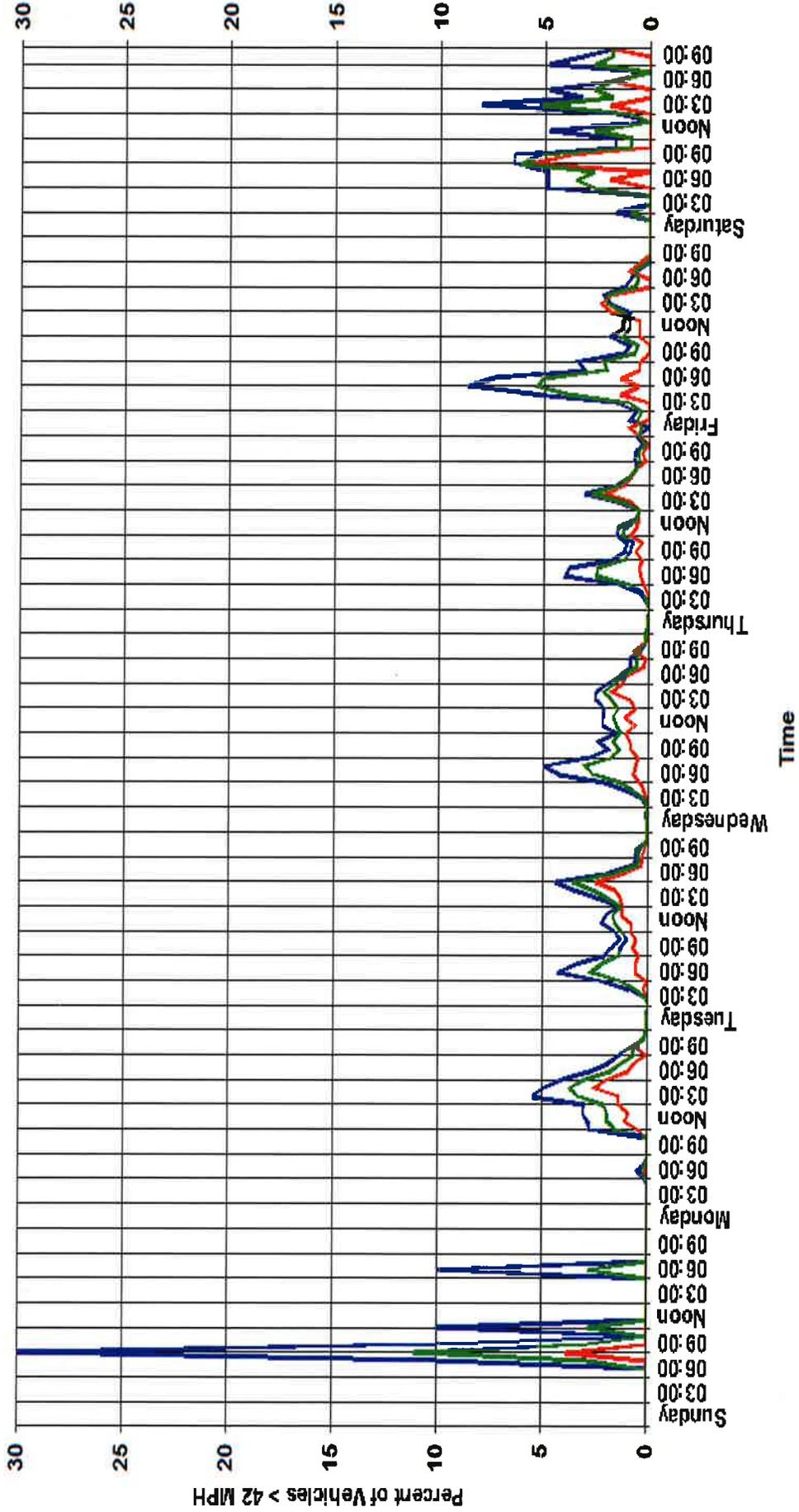
## Graphs



# Upper Dublin Township Police Department

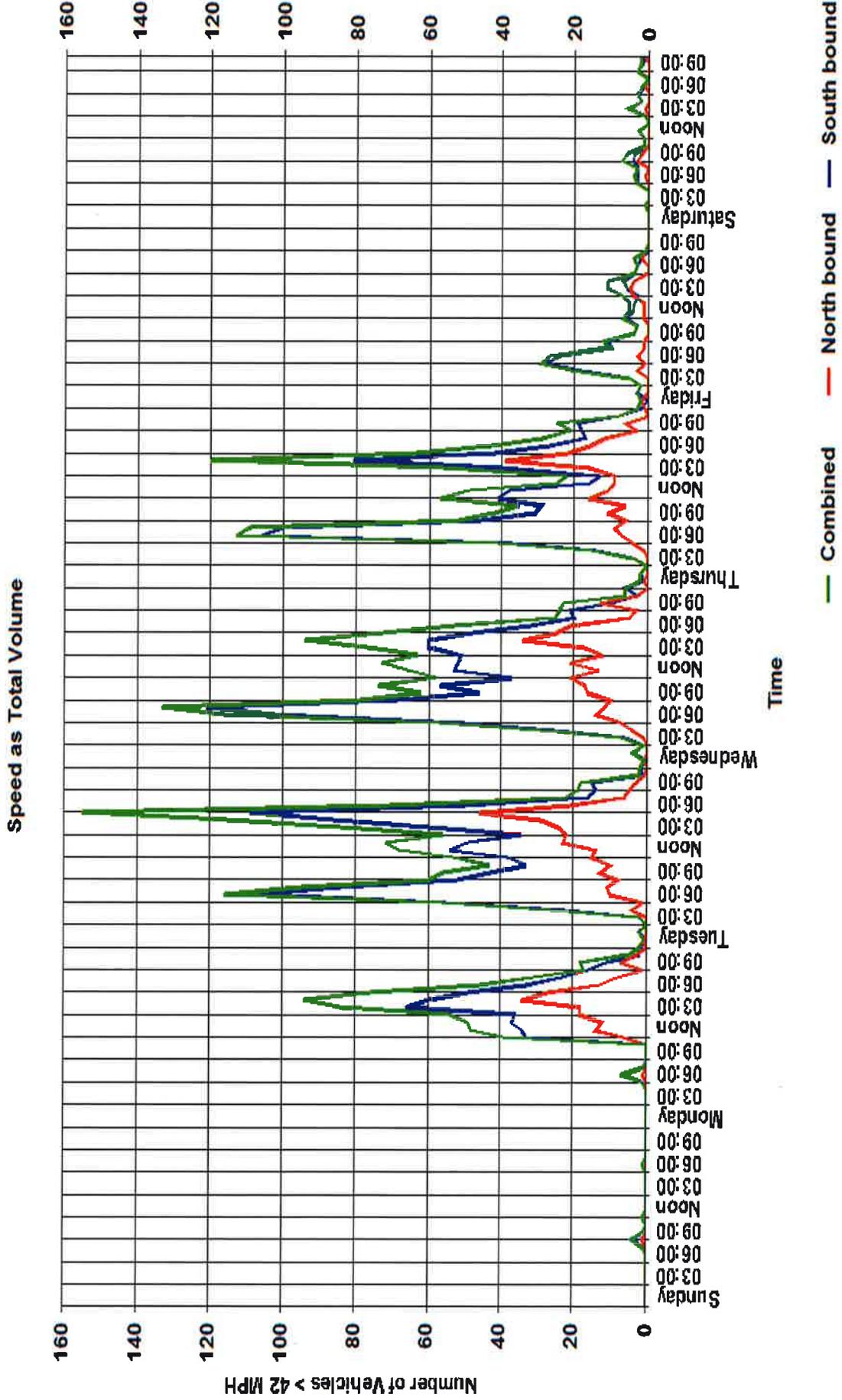
801 Loch Aish Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

Speed as Overall Percentage



# Upper Dublin Township Police Department

801 Loch Aish Avenue  
Ft. Washington, PA 19034  
(215) 646-2101



# Upper Dublin Township Police Department

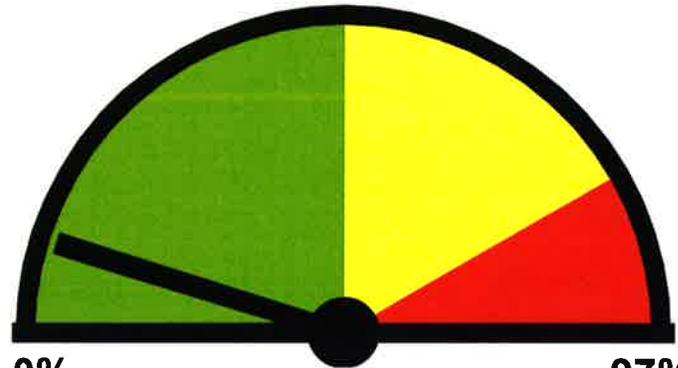
801 Loch Alsh Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

## Speed Enforcement Evaluator

**Location:**  
**526 FT. WASHINGTON AVENUE**

**Total Percentage of Enforceable Violations**

**Closest Cross Street:**  
HIGHLAND AVENUE



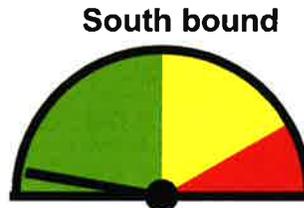
**0%** **97%**  
**Posted Speed Limit:** 35 MPH  
**Enforcement Tolerance:** 10 MPH  
**Enforcement Limit:** 46 MPH & Up  
**Percentage Above Limit:** 9.5%  
**Enforcement Rating:** **LOW**

**Analysis Dates:**  
Thursday, February 23, 2017  
Thursday, March 02, 2017

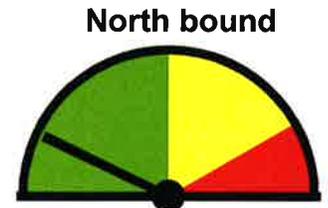
**Equipment Used:**  
SPEED SURVEY #1

**Installed By:**  
OFC. CIUFFETELLI #88

**Requested By:**  
BOLES, SMYTH ASSOCIATES, INC.



**Percent Above Limit: 5.4%**  
**Enforcement Rating: LOW**



**Percent Above Limit: 13.9%**  
**Enforcement Rating: LOW**

**Combined**

1-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	>70
5	140	158	146	615	3322	6699	4775	1358	250	39	6	4	1

85 percentile = 43

**South bound**

1-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	>70
3	26	34	77	416	2223	3806	2061	398	71	17	2	3	1

85 percentile = 42

**North bound**

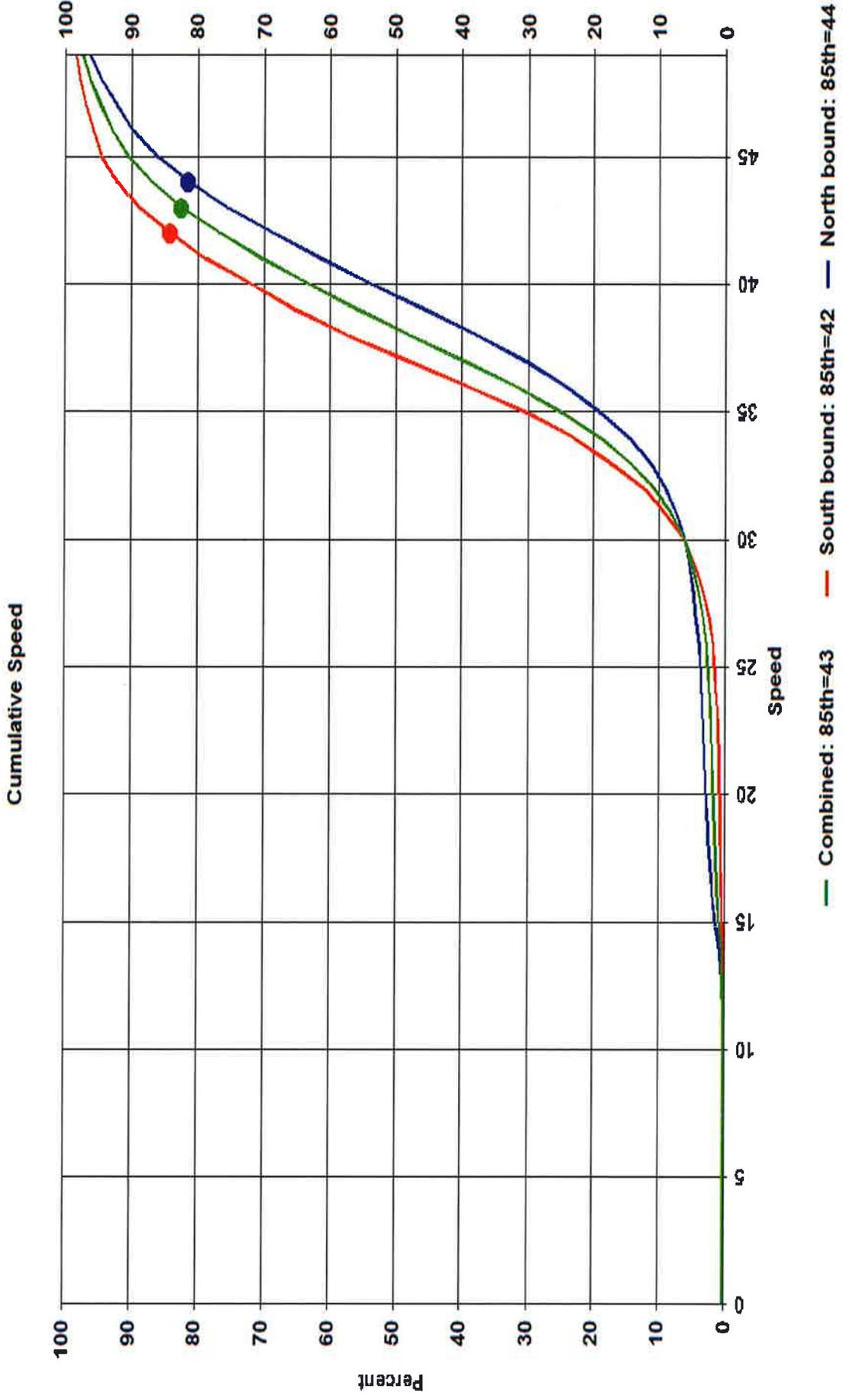
1-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	>70
2	114	124	69	199	1099	2893	2714	960	179	22	4	1	0

85 percentile = 44

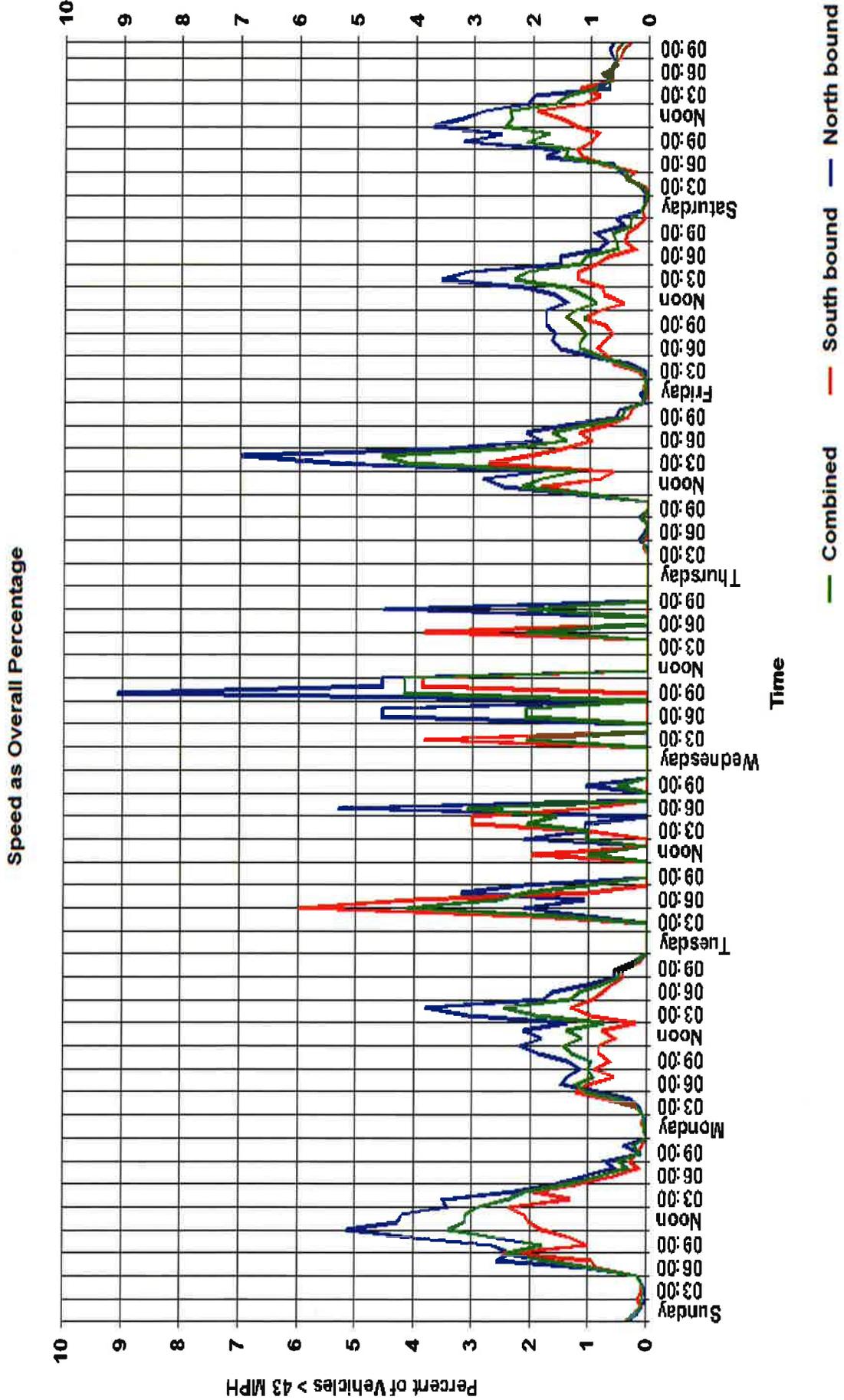
# Upper Dublin Township Police Department

801 Loch Aish Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

## Graphs

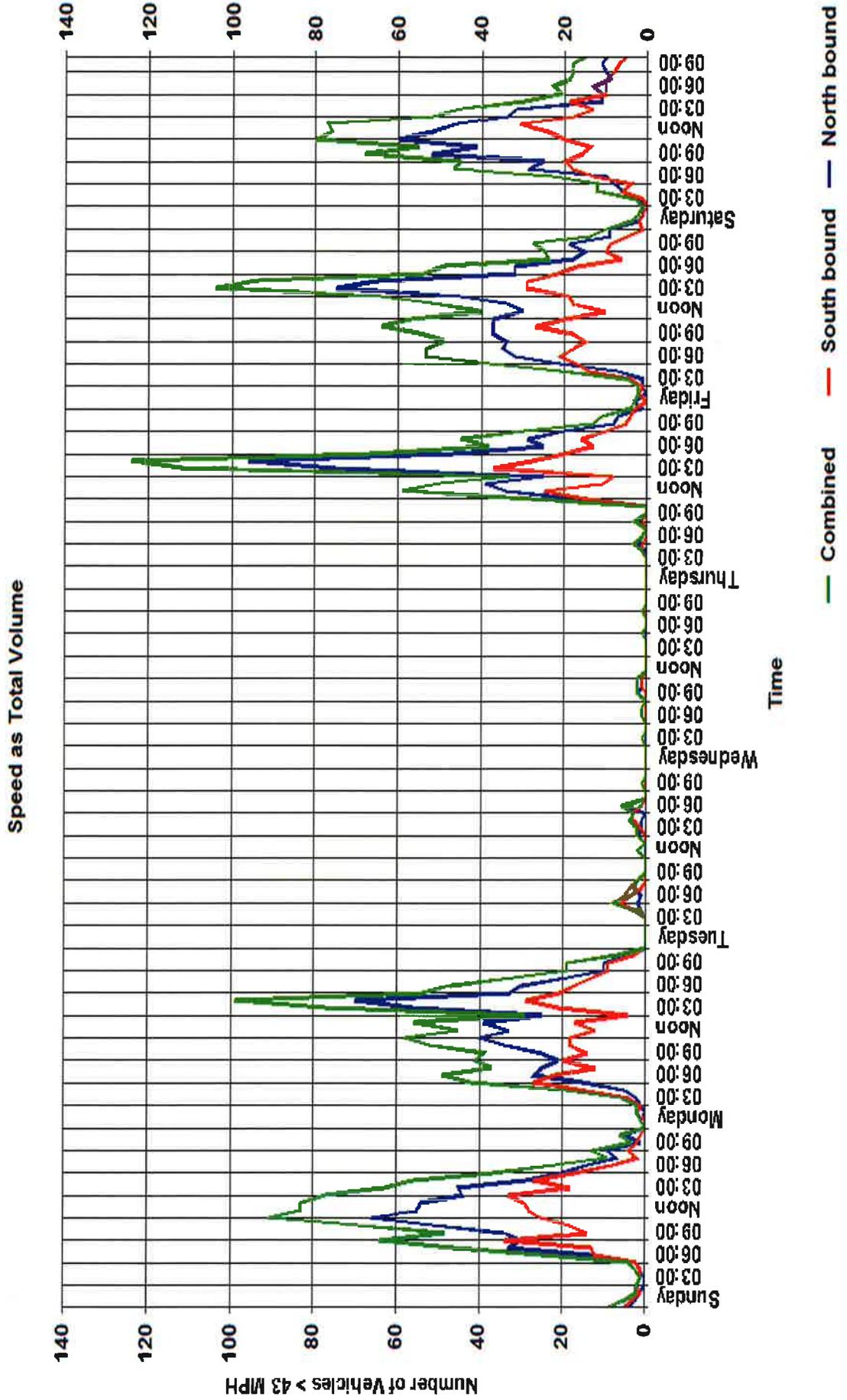


**Upper Dublin Township Police Department**  
 801 Loch Aish Avenue  
 Ft. Washington, PA 19034  
 (215) 646-2101



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## Speed Enforcement Evaluator

**Location:**  
**308 SUMMIT AVENUE**

**Total Percentage of Enforceable Violations**

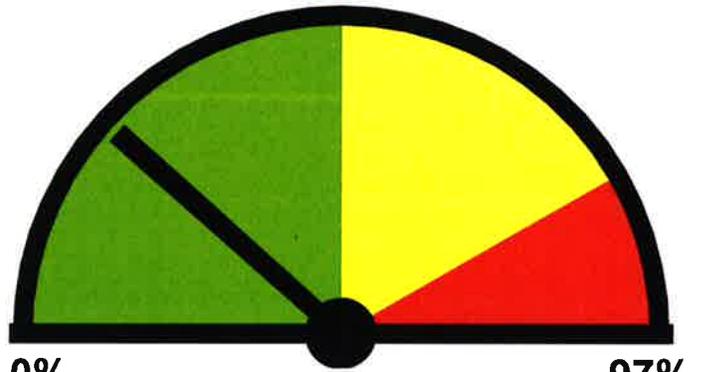
**Closest Cross Street:**  
PROSPECT AVENUE

**Analysis Dates:**  
Wednesday, January 25, 2017  
Sunday, January 29, 2017

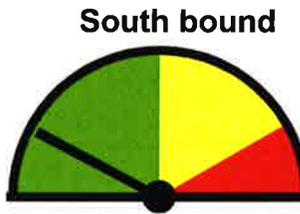
**Equipment Used:**  
SPEED SURVEY #2

**Installed By:**  
OFC. CIUFFETELLI #88

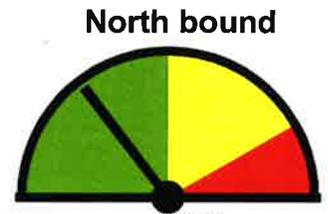
**Requested By:**  
RESIDENT



**0%** **97%**  
**Posted Speed Limit:** 25 MPH  
**Enforcement Tolerance:** 10 MPH  
**Enforcement Limit:** 36 MPH & Up  
**Percentage Above Limit:** 22.6%  
**Enforcement Rating:** **LOW**



**Percent Above Limit: 15.2%**  
**Enforcement Rating: LOW**



**Percent Above Limit: 28.4%**  
**Enforcement Rating: LOW**

**Combined**

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	6	62	97	267	765	969	503	114	13	2	0	0	0

85 percentile = 36

**South bound**

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	6	24	39	134	408	435	156	26	4	1	0	0	0

85 percentile = 35

**North bound**

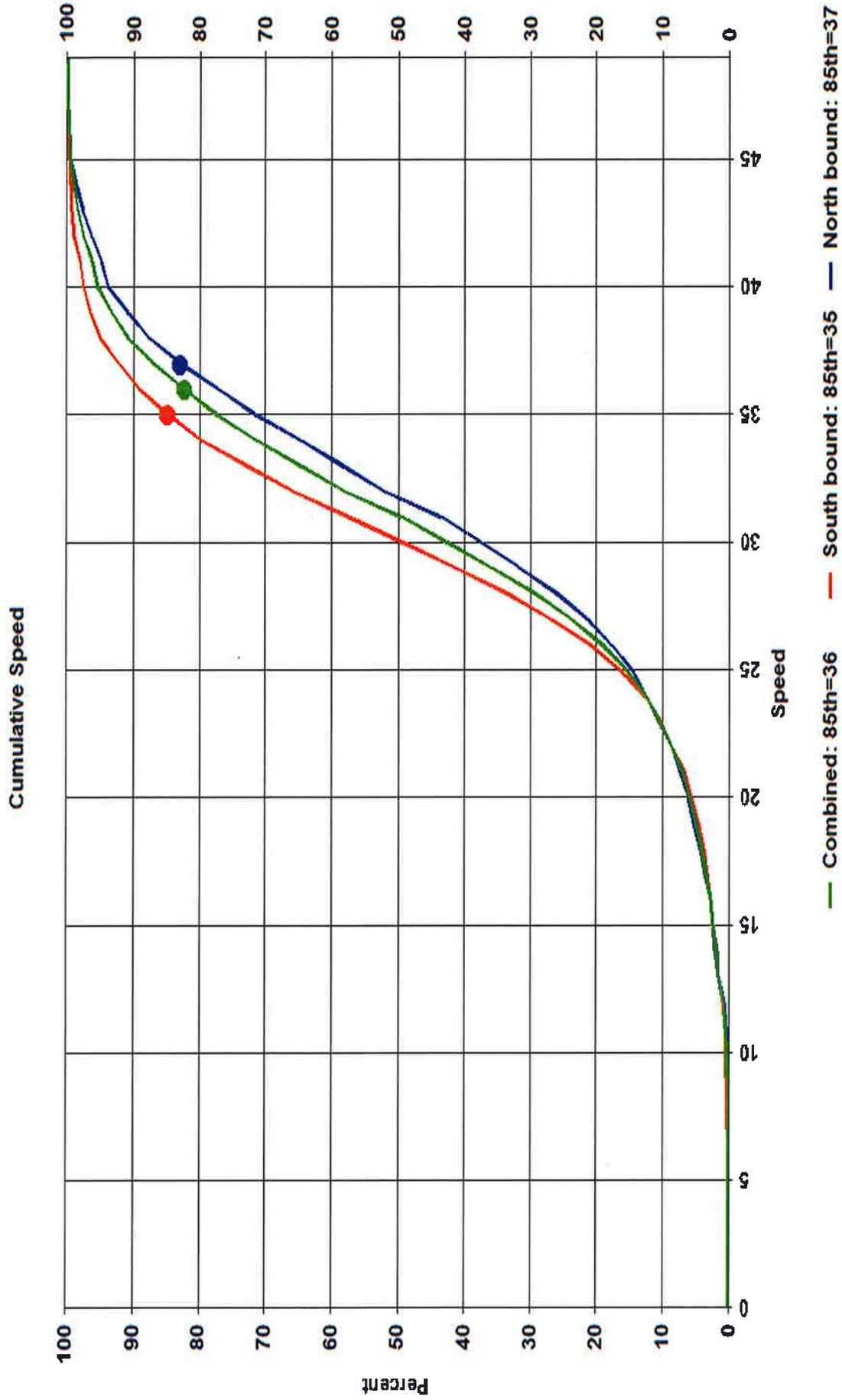
1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	0	38	58	133	357	534	347	88	9	1	0	0	0

85 percentile = 37

# Upper Dublin Township Police Department

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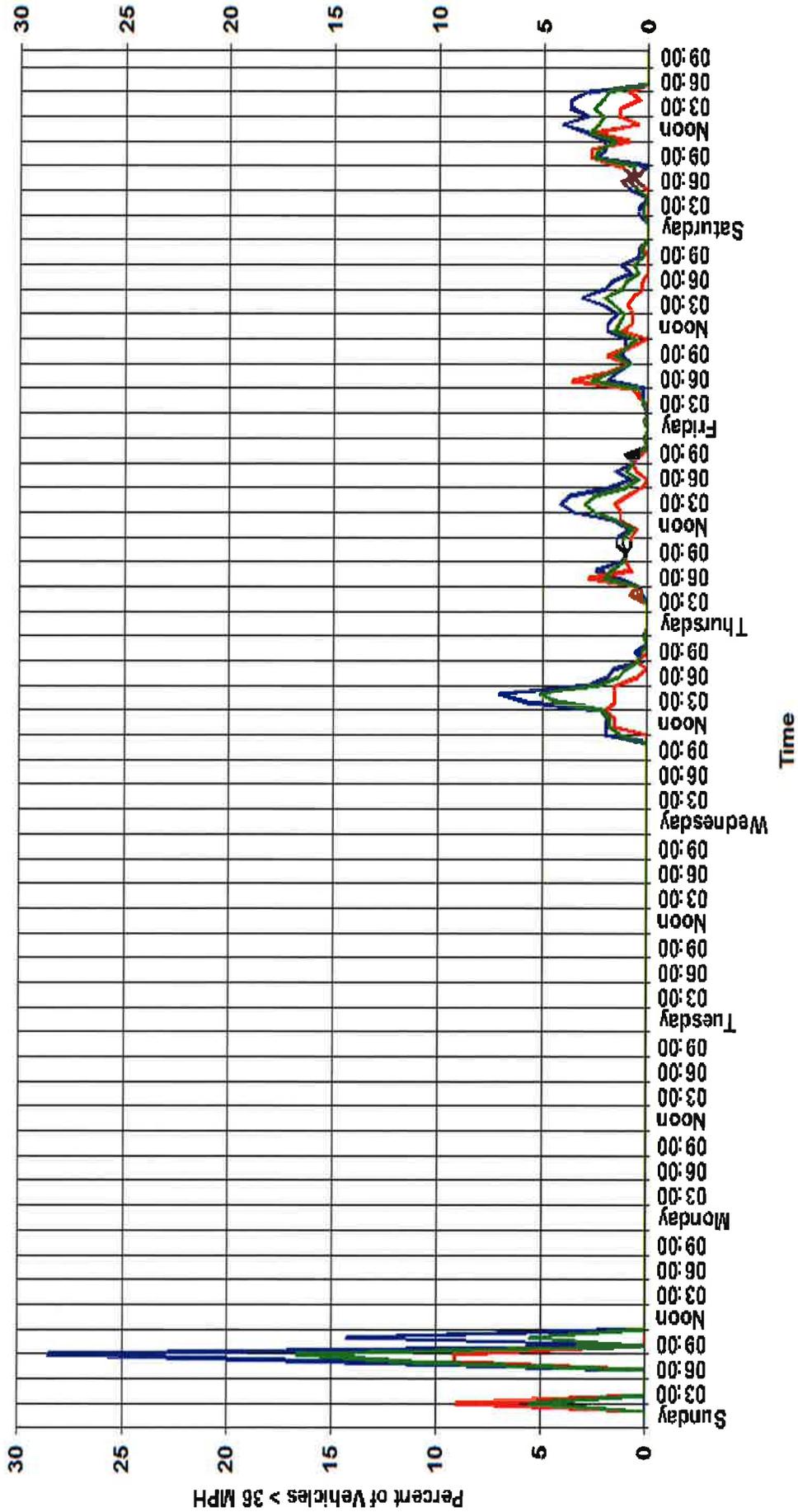
## Graphs



# Upper Dublin Township Police Department

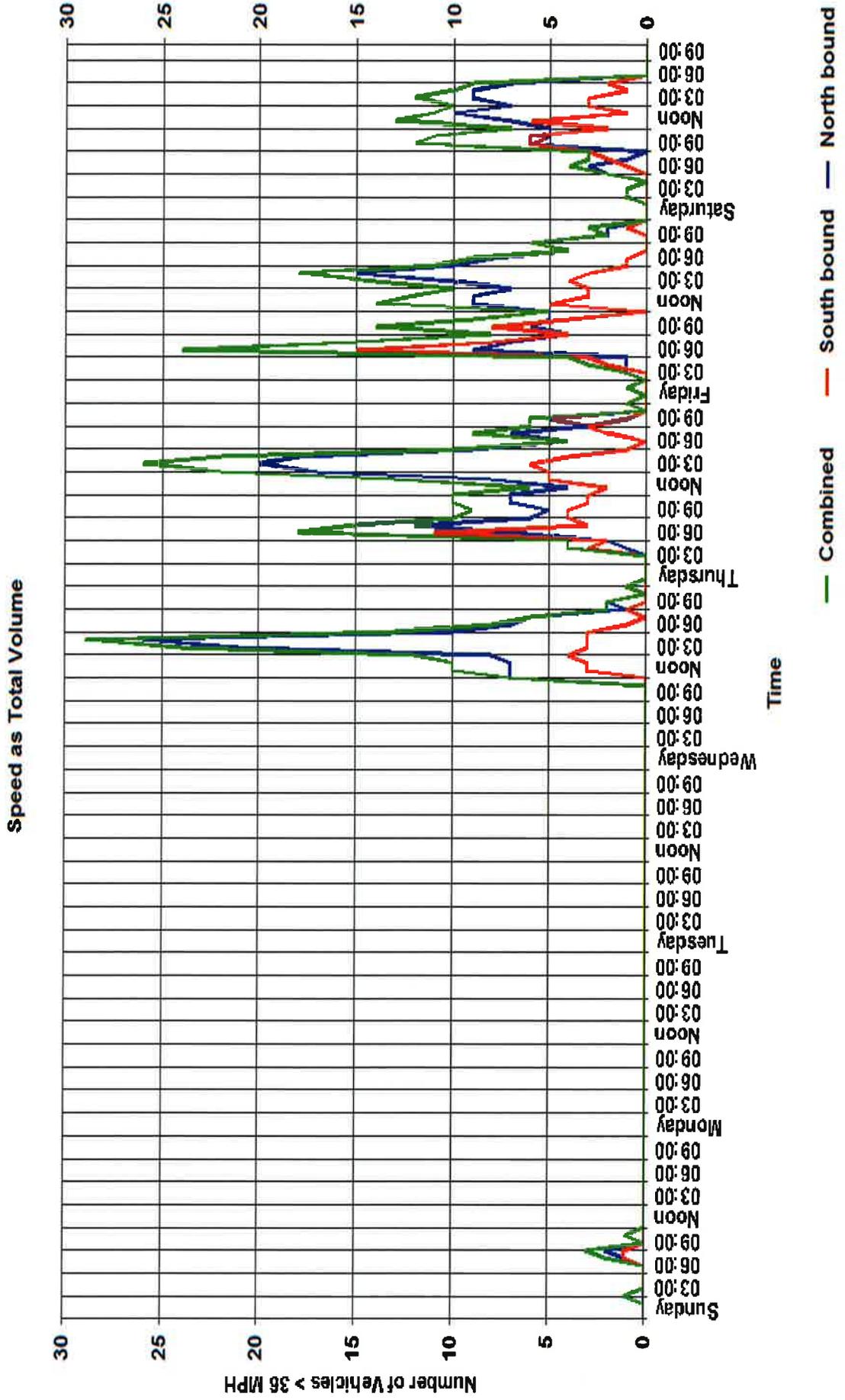
801 Loch Aish Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

Speed as Overall Percentage



# Upper Dublin Township Police Department

801 Loch Alsh Avenue  
Ft. Washington, PA 19034  
(215) 646-2101



# Upper Dublin Township Police Department

801 Loch Alsh Avenue  
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(215) 646-2101

## Speed Enforcement Evaluator

**Location:**  
**313 SUMMIT AVENUE**

**Total Percentage of Enforceable Violations**

**GPS:**  
0' 0.0000 South  
0' 0.0000 East

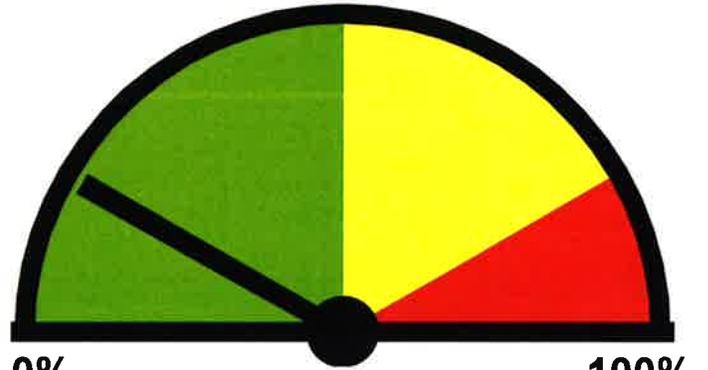
**Closest Cross Street:**  
PROSPECT AVENUE

**Analysis Dates:**  
Tuesday, April 04, 2017  
Wednesday, April 12, 2017

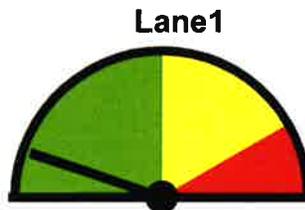
**Equipment Used:**  
SPEED SURVEY #2

**Installed By:**  
OFC. CIUFFETELLI #88

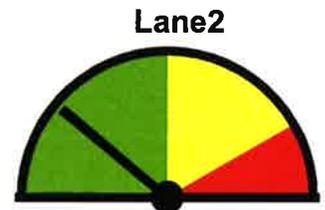
**Requested By:**  
BOLES, SMYTH ASSOCIATES, INC.



**0%** **100%**  
**Posted Speed Limit:** 25 MPH  
**Enforcement Tolerance:** 10 MPH  
**Enforcement Limit:** 36 MPH & Up  
**Percentage Above Limit:** 16.5%  
**Enforcement Rating:** **LOW**



**Percent Above Limit: 10.4%**  
**Enforcement Rating: LOW**



**Percent Above Limit: 22.0%**  
**Enforcement Rating: LOW**

**Combined**

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	71	444	340	813	2110	2054	890	214	38	8	1	0	0

85 percentile = 35

**Lane1**

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	52	56	154	493	1194	1045	304	40	4	1	0	0	0

85 percentile = 34

**Lane2**

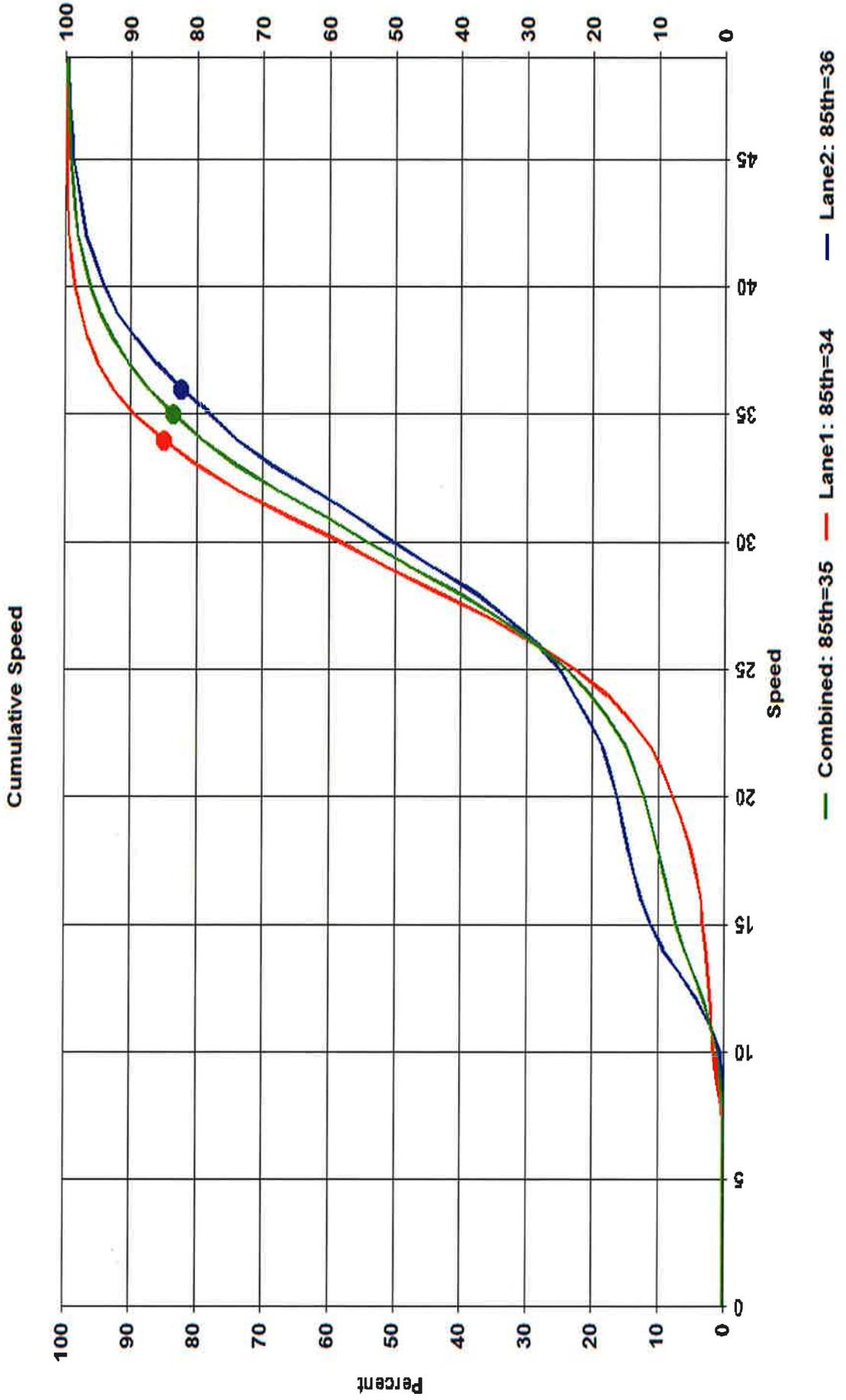
1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	19	388	186	320	916	1009	586	174	34	7	1	0	0

85 percentile = 36

# Upper Dublin Township Police Department

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(215) 646-2101

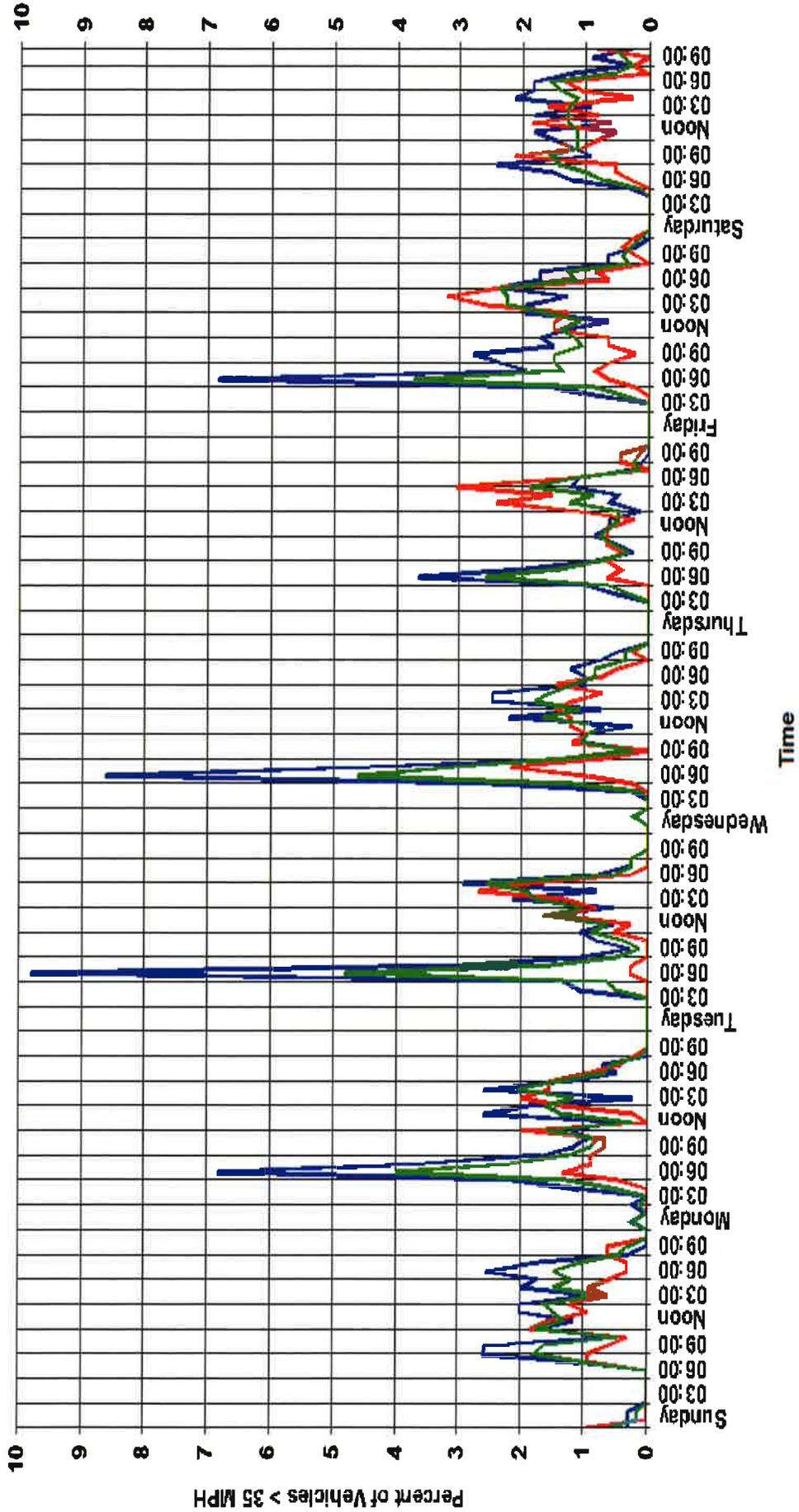
## Graphs



# Upper Dublin Township Police Department

801 Loch Aish Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

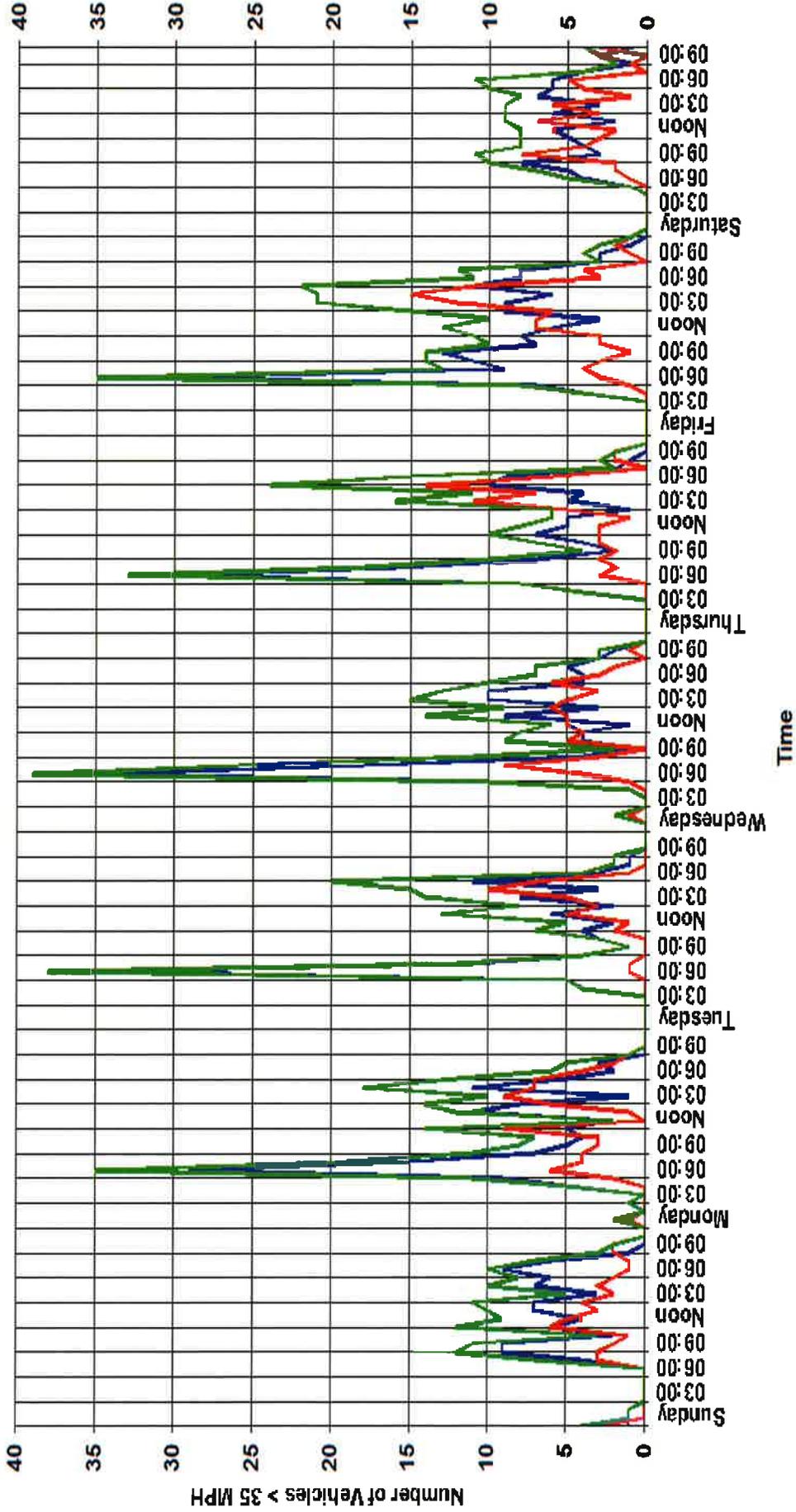
Speed as Overall Percentage



# Upper Dublin Township Police Department

801 Loch Alsh Avenue  
Ft. Washington, PA 19034  
(215) 646-2101

Speed as Total Volume



## **APPENDIX C**

**Municipal Crash Data  
Multiple Locations**

***Source: January 2011- February 2017 Upper Dublin Police Department***

**PennDOT Crash Data  
Fort Washington Avenue (State Route 2022)  
*Source: January 2013- December 2015 PennDOT***

Jack,

We code our accidents a little differently than PennDot does, but I'll give you a quick explanation of each and break down reportable vs. non-reportable crashes as well for each area.

So, we have 5 categories of crashes and any of those categories can be PennDot reportable or non-reportable depending on what was discovered by officers on scene. Those categories are as follows:

Accident/Ped – Any crash involving a vehicle vs. pedestrian

Accident/DUI- Any crash which resulted in a DUI arrest

Accident/Injury – Any crash which an injury was reported by callers/witnesses/involved parties

Accident/No-injury – Any crash in which no injuries were reported

Accident/Hit & Run – Any crash in which the vehicle left the scene of the crash

I'll cover each road by crash type on our system and then breakdown what were PennDot reportable and non-reportable.

**From 1/1/2011 thru 2/23/17**

**Bethlehem Pike**

**@Pennsylvania Avenue** – No crashes of any type reported at this location

**@Washington Lane** - No crashes of any type reported at this location

**@Montgomery Ave.** – Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury – 1 Acci/H&R – 0

PennDot reportable – 0 Non-reportable – 1

**@Spring Avenue** – Acci/Ped – 0 Acci/DUI – 0 Acci/Injry – 0 Acci/No-injury – 2 Acci/H&R – 0

PennDot reportable – 0 Non-reportable – 2

**@Prospect Ave.** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury – 3 Acci/H&R – 0

PennDot reportable – 0 Non-reportable 3

**@Hartranft Ave.** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury – 1 Acci/H&R – 0

PennDot reportable – 0 Non-reportable – 1

**Mid-block crashes 100 block to 500 Block**– Acci/Ped – 0 Acci/DUI – 1 Acci/Injury – 2 Acci/No-injury – 4  
Acci/H&R- 1

PennDot reportable – 4 Non-reportable – 4

**Ft. Washington Avenue**

**@ Pennsylvania Ave.** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 1 Acci/No-Injury – 0 Acci/H&R – 0  
PennDot Reportable – 1 Non-reportable – 0

**@Montgomery Ave.** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 3 Acci/No-injury – 5 Acci/H&R - 0  
PennDot reportable – 6 Non-reportable – 2

**@Spring Ave.** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 3 Acci/No-injury – 10 Acci/H&R – 0  
PennDot reportable – 11 Non-reportable – 2

**@Prospect Ave.** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 2 Acci/No-injury – 3 Acci/H&R – 0  
PennDot reportable – 4 Non-reportable 1

**@Creed Drive** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury – 2 Acci/H&R – 1  
PennDot reportable – 1 Non-reportable – 2

**@Highland Ave.** - Acci/Ped – 2 Acci/DUI- 0 Acci/Injury – 2 Acci/No-injury – 17 Acci/H&R – 1  
PennDot reportable – 8 Non-reportable – 12

**Mid-block between Pennsylvania Ave. & Highland Ave.**

Acci/Ped – 0 Acci/DUI – 1 Acci/Injury – 3 Acci/No-injury – 11 Acci/H&R – 3  
PennDot reportable – 6 Non-reportable – 12

**SUMMIT AVENUE**

**@Pennsylvania Avenue** - Acci/Ped – 0 Acci/DUI – 1 Acci/Injury – 0 Acci/No-Injury – 1 Acci/H&R – 0  
PennDot reportable – 1 Non-reportable – 1

**@Montgomery Ave.** - Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury – 2 Acci/H&R – 1  
PennDot reportable – 1 Non-reportable – 2

**@ Spring Ave.** – Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury – 1 Acci/H&R – 1  
PennDot reportable – 0 Non-reportable – 2

**@Prospect Ave.** – Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 1 Acci/No injury – 0 Acci/H&R – 0  
PennDot reportable – 1 Non-reportable – 0

**@Highland Ave.** - No crashes of any kind reported at this location

**Mid-block crashes from Pennsylvania Ave. to Highland Ave.**

Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury – 5 Acci/H&R – 7  
PennDot reportable – 4 Non-reportable – 8

**MADISON AVENUE**

**@Montgomery Ave.** - No crashes of any kind reported at this location

**@Spring Ave.** - Acci/Ped – 0 Acci/DUI – 1 Acci/Injury – 0 Acci/No-injury – 1 Acci/H&R – 0

PennDot reportable – 1 Non-reportable – 1

**@Prospect Ave.** - No crashes of any kind reported at this location

**@Hartranft. Ave.** - No crashes of any kind reported at this location

**@Highland Ave.** - No crashes of any kind reported at this location

**Mid-block crashes from Montgomery Ave. to Highland Ave.**

Acci/Ped – 0 Acci/DUI – 0 Acci/Injury – 0 Acci/No-injury 1 Acci/H&R – 1

PennDot reportable -0 Non-reportable – 2

**MONTGOMERY AVENUE**

No crashes of any kind reported on Montgomery Avenue not already listed

**SPRING AVENUE**

No crashes of any kind reported on Spring Avenue not already listed

**PROSPECT AVENUE**

No crashes of any kind reported on Prospect Avenue not already listed

**HARTRANFT AVENUE**

No crashes of any kind reported on Hartranft Avenue not already listed

**WASHINGTON LANE**

Acci/H&R – 1 Non-reportable crash

**ELLIGER AVENUE**

No crashes of any kind reported on Elliger Avenue not already listed

**HIGHLAND AVENUE**

Acci/Injury – 5 Acci/No-injury – 6 Acci/H&R – 1 PennDot reportable – 7 Non-reportable – 5

If you have any questions about these breakdowns please let me know. Thanks.

**CR17026 MONTGOMERY COUNTY SR2022 0020(0000) - 0040(0000)**



USER ID/QUERY ID:  
rfranciscol\_0620170322007

Date Range: 1/1/2013 to 12/31/2015  
Area of Interest: (In County 46 On State Route 2022(P) Between Segment 0020 Offset 0 and Segment 0040 Offset 0)

**MONTH OF YEAR**

	JAN	FEB	MAR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
CRASHES	1	1	2	2	1	4	1	2	4	1	1
PCT	5%	5%	10%	10%	5%	20%	5%	10%	20%	5%	5%
	1	1	2	2	1	4	1	2	4	1	1
	5%	5%	10%	10%	5%	20%	5%	10%	20%	5%	5%

**DAY OF WEEK**

	SUN	MON	TUE	WED	THR	FRI	SAT
CRASHES	1	4	3	3	5	3	1
PCT	5%	20%	15%	15%	25%	15%	5%
	1	4	3	3	5	3	1
	5%	20%	15%	15%	25%	15%	5%

**HOUR OF DAY**

	02	08	09	11	12	13	14	15	16	17	19	21
CRASHES	1	2	2	2	2	1	1	2	1	3	2	1
PCT	5%	10%	10%	10%	10%	5%	5%	10%	5%	15%	10%	5%
	1	2	2	2	2	1	1	2	1	3	2	1
	5%	10%	10%	10%	10%	5%	5%	10%	5%	15%	10%	5%

**YEAR**

	CRASHES	PCT
2013	9	45%
2014	5	25%
2015	6	30%
TOTAL	20	100%

**COLLISION TYPE**

	CRASHES	PCT
ANGLE	17	85%
REAR END	2	10%
OPP DIR SS	1	5%
TOTAL	20	100%

**CRASH SEVERITY LEVEL**

	CRASHES	PCT
SUSP MINOR	1	5%
POSSIBLE INJURY	3	15%
UNK SEVERITY	8	40%
UNK IF INJURED	1	5%
PDO	7	35%
TOTAL	20	100%

**SEVERITY COUNT**

	PERSONS
FATALITIES	0
SUSPECTED SERIOUS	0
SUSPECTED MINOR	1
POSSIBLE INJURY	6
UNK SEVERITY	14
UNK IF INJURED	1

**DRIVER ACTIONS**

	ACTIONS	PCT
NO CONTRIBUTING ACTION	21	48%
PROCEED W/O CLEARANCE	8	18%
IMPROPER/CARELESS TURN	6	14%
RUNNING RED LIGHT	3	7%
RUNNING STOP SIGN	2	5%
AFFECTED PHYSICAL COND	1	2%
DRIVER WAS DISTRACTED	1	2%
TURN FROM WRONG LANE	1	2%
UNKNOWN	1	2%
TOTAL	44	100%

**VEHICLE TYPE**

	VEHICLES	PCT
AUTOMOBILE	24	59%
SUV	13	32%
SMALL TRUCK	2	5%
VAN	2	5%
TOTAL	41	100%

**ROAD CONDITION**

	CRASHES	PCT
DRY	17	85%
WET	2	10%
SNOW	1	5%
TOTAL	20	100%

**ILLUMINATION**

	CRASHES	PCT
DAYLIGHT	15	75%
STREET LIGHTS	3	15%
DARK	1	5%
OTHER	1	5%
TOTAL	20	100%

**WEATHER**

	CRASHES	PCT
CLEAR	17	85%
RAIN	2	10%
SNOW	1	5%
TOTAL	20	100%

**ENVIR/ROADWAY FACTORS**

	FACTORS	PCT
NONE	19	95%
SLIPPERY ICE/SNOW	1	5%
TOTAL	20	100%

**IMPORTANT:** This traffic engineering and safety study is confidential pursuant to 75 Pa. C.S. §3754 and 23 U.S.C. §409 and may not be disclosed or used in litigation without written permission from PennDOT.

CDART - CRASH SUMMARY REPORT (09-06)

**NOTES:**

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- 3 Complete data years  
Complete records of reportable crashes are available in CDART for the following years : 1997 - 2015

**REPORT PARAMETERS:**

Query ID: 0620170322007  
User ID: rfrancisco  
Area of Interest: (In County 46 On State Route 2022(P) Between Segment 0020 Offset 0 and Segment 0040 Offset 0)  
Date Range: 1/1/2013 to 12/31/2015  
Criteria:

CR17026 MONTGOMERY COUNTY SR2022 0020(0000) - 0040(0000)



Sorted by County, Route, Segment, Offset

USER ID/QUERY ID:  
rfrancisco/ 0620170322007

Date Range: 1/1/2013 to 12/31/2015

Area of Interest: (In County 46 On State Route 2022(P) Between Segment 0020 Offset 0 and Segment 0040 Offset 0)

CRN	CO DATE	DAY TIME	LIGHTING	ROAD SURF	WEATHER	FAT	INJ	PED	VEH	MAX SEVERITY	
1	2013009855	46 01/25/2013	FRI 21:14	STREET LT	SNOW	SNOW	0	0	0	3	UNK IF INJURED
ENV RDWY FACTORS: SLIPPERY ROAD (ICE/SNOW) ANGLE T-INT 2018/0090/0871 2022/0020/0000 VEH: 1 SUV TRAVELING WEST IN LEFT TURN LANE TURNING RIGHT ALC TEST: 06 VEH EVENTS: HIT UNIT 02 HIT UNIT 03 DVR ACTIONS: AFFECTED BY PHYSICAL COND TURNING FROM WRONG LANE RUNNING RED LIGHT VEH: 2 AUTOMOBILE TRAVELING SOUTH IN LEFT TURN LANE STOPPED IN TRAFFIC LANE VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											
2	2013054910	46 05/29/2013	WED 16:44	DAYLIGHT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE ANGLE T-INT 2022/0020/0198 2037/0012/2742 2037/0013/2742 VEH: 1 SUV TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: NO CONTRIBUTING ACTION VEH: 2 SUV TRAVELING SOUTH IN RIGHT LANE TURNING RIGHT ON RED VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: IMPROPER/CARELESS TURN											
3	2013073741	46 07/18/2013	THR 15:22	DAYLIGHT	DRY	CLEAR	0	1	0	3	UNK SEVERITY
ENV RDWY FACTORS: NONE ANGLE 4WAY 2022/0020/0198 2037/0012/2742 2037/0013/2742 VEH: 1 AUTOMOBILE TRAVELING EAST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: RUNNING RED LIGHT VEH: 2 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 STRUCK BY UNIT 03 DVR ACTIONS: NO CONTRIBUTING ACTION VEH: 3 SUV TRAVELING NORTH IN LEFT TURN LANE STOPPED IN TRAFFIC LANE VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: NO CONTRIBUTING ACTION											
4	2013107973	46 10/28/2013	MON 08:49	DAYLIGHT	DRY	CLEAR	0	1	0	2	UNK SEVERITY
ENV RDWY FACTORS: NONE ANGLE T-INT 2022/0020/0198 2037/0012/2742 2037/0013/2742 VEH: 1 AUTOMOBILE TRAVELING SOUTH IN LEFT LANE TURNING LEFT VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: IMPROPER/CARELESS TURN VEH: 2 AUTOMOBILE TRAVELING NORTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											
5	2014107468	46 10/28/2014	TUE 17:26	DAYLIGHT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE ANGLE T-INT 2022/0020/0198 2037/0012/2742 2037/0013/2742 VEH: 1 AUTOMOBILE TRAVELING EAST IN LEFT LANE TURNING LEFT VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: IMPROPER/CARELESS TURN VEH: 2 SUV TRAVELING WEST IN LEFT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											

**CR17026 MONTGOMERY COUNTY SR2022 0020(0000) - 0040(0000)**



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CRN	CO DATE	DAY TIME	LIGHTING	ROAD SURF	WEATHER	FAT	INJ	PED	VEH	MAX SEVERITY
6	<u>2015080123</u>	46 07/19/2015	SUN 12:47	DAYLIGHT	DRY	CLEAR	0	5	0 2	UNK SEVERITY REAR-END
ENV RDWY FACTORS: NONE OTHR 2022/0020/0198 2037/0012/2742 2037/0013/2736 FORT WASHINGTON EX VEH: 1 SUV TRAVELING NORTH IN OTHER FWD MOVING LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: UNKNOWN VEH: 2 AUTOMOBILE TRAVELING NORTH IN SHOULDER RIGHT OTHER VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION										
7	<u>2015092218</u>	46 09/03/2015	THR 17:04	DAYLIGHT	DRY	CLEAR	0	1	0 2	UNK SEVERITY OPP DIR SIDESW
ENV RDWY FACTORS: NONE T-INT 2022/0020/0198 2037/0012/2742 2037/0013/2742 VEH: 1 AUTOMOBILE TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: NO CONTRIBUTING ACTION VEH: 2 SUV TRAVELING EAST IN LEFT LANE TURNING LEFT VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: IMPROPER/CARELESS TURN										
8	<u>2014125823</u>	46 12/12/2014	FRI 13:07	DAYLIGHT	DRY	CLEAR	0	0	0 2	PROP DMG ONLY ANGLE
ENV RDWY FACTORS: NONE MIDB 2022/0020/0200 VEH: 1 AUTOMOBILE TRAVELING EAST IN OTHER TURNING RIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 AUTOMOBILE TRAVELING EAST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION										
9	<u>2014076235</u>	46 08/05/2014	TUE 09:00	DAYLIGHT	DRY	CLEAR	0	1	0 2	UNK SEVERITY ANGLE
ENV RDWY FACTORS: NONE 4WAY 2022/0020/0973 MONTGOMERY AV VEH: 1 AUTOMOBILE TRAVELING EAST IN RIGHT LANE TURNING RIGHT VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: RUNNING STOP SIGN VEH: 2 SUV TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION										
10	<u>2014104934</u>	46 10/24/2014	FRI 12:34	DAYLIGHT	DRY	CLEAR	0	0	0 2	PROP DMG ONLY ANGLE
ENV RDWY FACTORS: NONE 4WAY 2022/0020/0973 MONTGOMERY AV VEH: 1 SUV TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION										

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CRN	CODATE	DAY TIME	LIGHTING	ROAD SURF	WEATHER	FAT	INJ	PED	VEH	MAX SEVERITY	
11	2013030865	46 03/18/2013	MON 19:22	STREET LT	WET	RAIN	0	2	0	2	UNK SEVERITY
ENV RDWY FACTORS: NONE 4WAY 2022/0020/1934 SPRING AV VEH: 1 SUV TRAVELING EAST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 SMALL TRUCK TRAVELING NORTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											
12	2013071728	46 07/15/2013	MON 11:38	DAYLIGHT	DRY	CLEAR	0	2	0	2	UNK SEVERITY
ENV RDWY FACTORS: NONE 4WAY 2022/0020/1934 SPRING AV VEH: 1 AUTOMOBILE TRAVELING EAST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 HIT CURB HIT TRAFFIC SIGN DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 SMALL TRUCK TRAVELING NORTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 HIT CURB DVR ACTIONS: NO CONTRIBUTING ACTION											
13	2014066035	46 07/03/2014	THR 14:33	DAYLIGHT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE 4WAY 2022/0020/1934 SPRING AV VEH: 1 SUV TRAVELING EAST IN RIGHT LANE TURNING LEFT VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: IMPROPER/CARELESS TURN VEH: 2 SUV TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 HIT CURB HIT TREE OR SHRUBBERY DVR ACTIONS: NO CONTRIBUTING ACTION											
14	2015024965	46 02/26/2015	THR 15:22	DAYLIGHT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE 4WAY 2022/0020/1934 SPRING AV VEH: 1 AUTOMOBILE TRAVELING WEST IN RIGHT LANE STOPPED IN TRAFFIC LANE VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 SUV TRAVELING NORTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											
15	2013058042	46 06/05/2013	WED 17:39	DAYLIGHT	DRY	CLEAR	0	2	0	2	POSSIBLE INJURY
ENV RDWY FACTORS: NONE 4WAY 2022/0030/0000 PROSPECT AV VEH: 1 AUTOMOBILE TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											

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CRN	CO DATE	DAY TIME	LIGHTING	ROAD SURF	WEATHER	FAT	INJ	PED	VEH	MAX SEVERITY	
16	2015098832	46 09/26/2015	SAT 19:04	STREET LT	DRY	CLEAR	0	1	0	2	UNK SEVERITY
ENV RDWY FACTORS: NONE 4WAY 2022/0030/0000 PROSPECT AV VEH: 1 AUTOMOBILE TRAVELING EAST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 HIT TRAFFIC SIGN DVR ACTIONS: NO CONTRIBUTING ACTION											
17	2015119576	46 11/17/2015	TUE 08:44	DAYLIGHT	DRY	CLEAR	0	2	0	2	SUSP MINOR INJURY
ENV RDWY FACTORS: NONE 4WAY 2022/0030/0000 PROSPECT AV VEH: 1 VAN TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: PROCEED W/O CLEARANCE VEH: 2 VAN TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											
18	2013054184	46 05/27/2013	MON 02:15	DARK	DRY	CLEAR	0	2	0	2	POSSIBLE INJURY
ENV RDWY FACTORS: NONE T-INT 2022/0040/0000 HIGHLAND AV VEH: 1 AUTOMOBILE TRAVELING NORTH IN OTHER FWD MOVING LANE TURNING RIGHT VEH EVENTS: STRUCK BY UNIT 02 DVR ACTIONS: RUNNING STOP SIGN VEH: 2 AUTOMOBILE TRAVELING EAST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											
19	2013100910	46 10/10/2013	THR 09:29	OTHER	WET	RAIN	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE 4WAY 2022/0040/0000 HIGHLAND AV VEH: 1 AUTOMOBILE TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: RUNNING RED LIGHT VEH: 2 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											
20	2015033433	46 03/18/2015	WED 11:40	DAYLIGHT	DRY	CLEAR	0	1	0	2	POSSIBLE INJURY
ENV RDWY FACTORS: NONE 4WAY 2022/0040/0000 HIGHLAND AV VEH: 1 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE SLOWING OR STOPPING IN LANE VEH EVENTS: HIT UNIT 02 DVR ACTIONS: DRIVER WAS DISTRACTED VEH: 2 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE STOPPED IN TRAFFIC LANE VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION											

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Date Range: 1/1/2013 to 12/31/2015

Criteria:

## **APPENDIX D**

**Fort Washington Neighborhood Meeting  
Agenda & Summary of Comments Received  
April 20, 2017 at Fort Washington Fire House**



**Boles, Smyth Associates, Inc.**  
Consulting Civil Engineers Since 1972

**Fort Washington Traffic Calming Effort  
Community Meeting**

**Date & Time:** Thursday, April 20th, 2017 at 6:30 PM

**Location:** Upper Dublin Township, Fort Washington Firehouse

***Proposed Agenda***

- I. Introductions and Opening Remarks
  
- II. Efforts to Date and Preliminary Identification of Traffic Problem Identification
  
- III. Roundtable Discussion to Ask Community for Input on Traffic Problems
  
- IV. Overview of Some Preliminary Traffic Calming Ideas
  
- V. First Reaction Feedback from Community on Traffic Calming Ideas
  
- VI. Next Steps and Schedule

Fort Washington Traffic Calming Study

Tabulation of Written Comments from Public Meeting (8) & Followup Correspondence (5) - April 20th, 2017

ISSUES AND CONCERNS (in no particular order)	
Speeding	Summit Avenue.
	Fort Washington Avenue.
	Southbound is downhill from Highland Avenue towards Pennsylvania Avenue.
	School zones around Fort Washington Avenue and Highland Avenue.
Pedestrian	Crossing Summit Avenue.
	Crossing Fort Washington Avenue.
	Crossing Pennsylvania Avenue.
	Completing sidewalk along Montgomery Ave (commuter cut through from SEPTA).
	Fatal pedestrian crash on Susquehanna Road, fearful it may occur here.
	Many children walking and playing.
	Crossing guard effectiveness.
Line of Sight	Crossing Fort Washington Avenue from side streets.
	Vision blocked by parked cars and trash cans.
Other	Bus stops and speeding buses.
	Additional future volume from Mattison Estate project.
	Car dealership employees and test drives.
	Street parking only in some locations (homes with no driveways).
	Afternoon peak hour study (4-6) misses the school peak hour (3-4) and SEPTA train peak hour (6-7).
	Cut-through traffic from SEPTA station through Summit to Montgomery.
	More signage and improved signage (flashing).
	Cars parked on Fort Wash and Summit waiting for kids from elementary school
Proposed Traffic Calming	Mini-roundabout could be hard-to-see obstacle at night.
	Mini-roundabout could be difficult for larger turning vehicles.

# OF TIMES MENTIONED	PROPOSED IDEAS AND IMPROVEMENTS
7	Mini-roundabouts.
7	Speed humps.
6	Flashing Signs - School Zone, Speed Limit, Pedestrian Beacon.
4	Bumpouts.
4	Crosswalks or Raised Crosswalks.
2	Provide documents online for public review.
2	Complete sidewalks.
2	Petition state for local radar use.
1	4 way stop sign.
1	Left turn arrow at Pennsylvania and Summit.
1	Low Cost Temporary to Field Test.
1	Nice looking traffic calming features to add value to neighborhood.
1	Permit Parking.
1	Relocate crossing guards.

## **APPENDIX E**

**Inventory of Existing Sidewalk, Crosswalk, and On-Street Parking**



- Existing Sidewalk (condition varies)
- Existing Crosswalk
- Existing On-Street Parking Restriction (No Parking)
- Existing On-Street Parking Restriction (2 Hour Parking, 7AM-3PM, Mon-Fri)



**TRAFFIC CALMING & SAFETY ANALYSIS**  
 for Upper Dublin Township  
 Fort Washington Ave & Summit Ave  
 Inventory of Sidewalks, Crosswalks, Parking



**Boles Smyth Associates Inc.**  
 Imagination • Engineering • Excellence

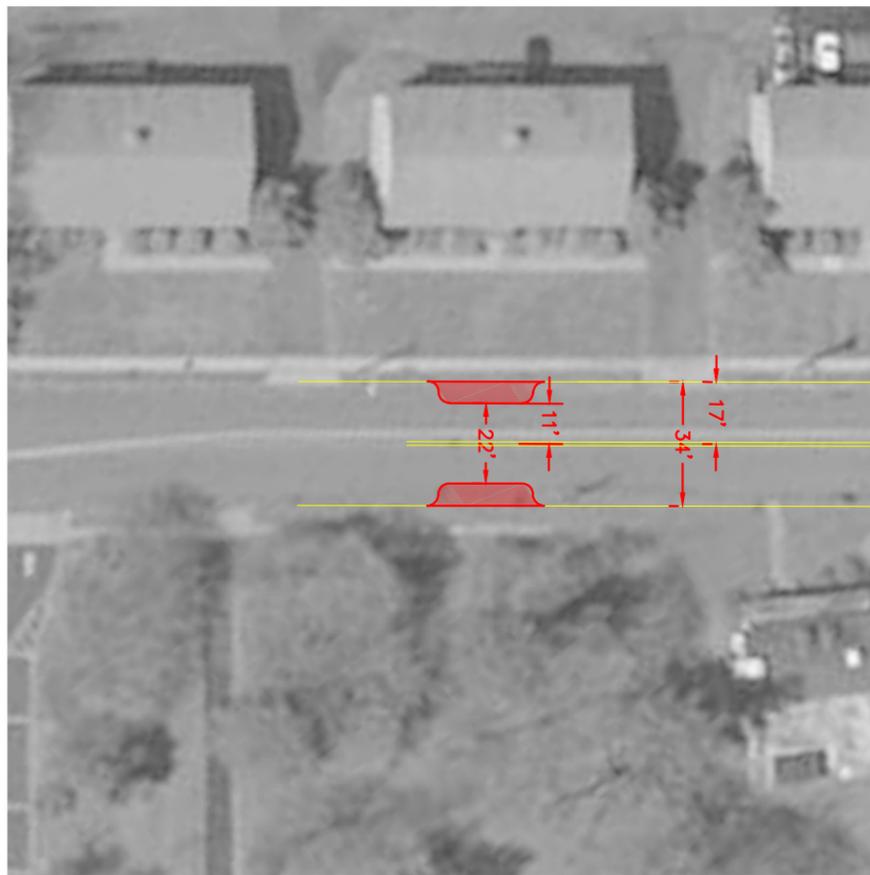
April 2017

## **APPENDIX F**

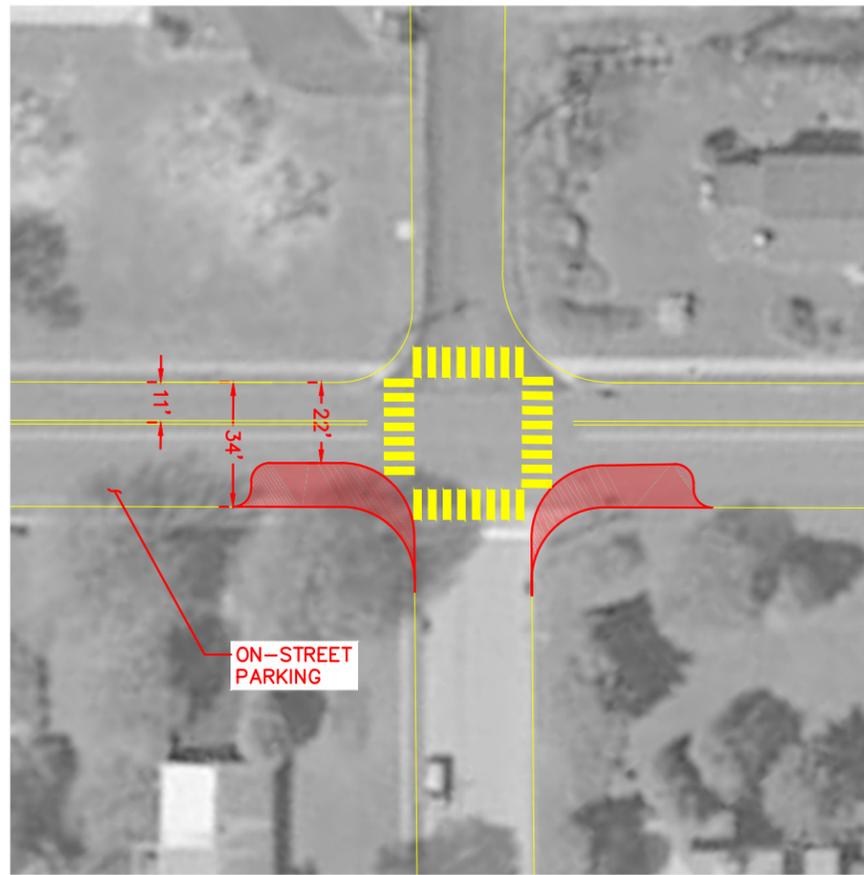
**Potential Traffic Calming Examples for Fort Washington Avenue  
Presented at Fort Washington Neighborhood Meeting**



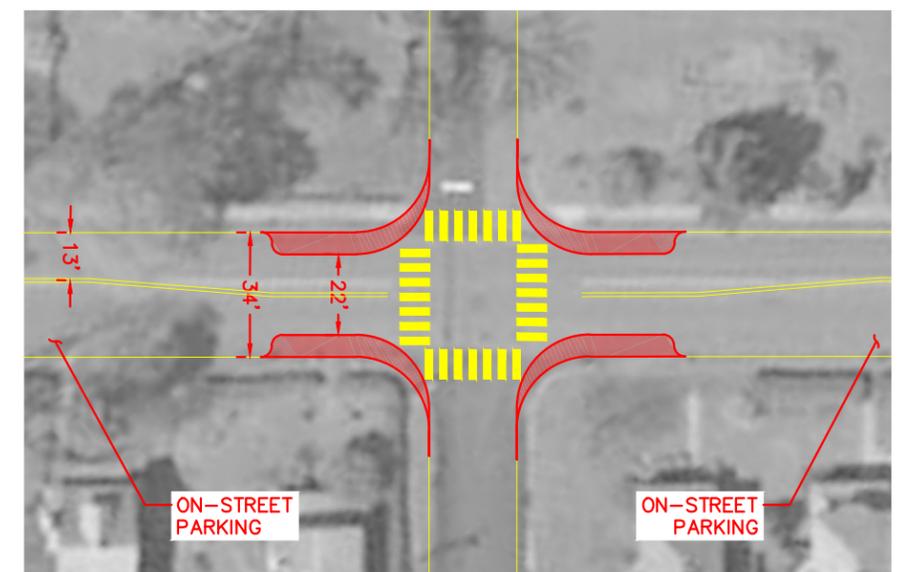
EXAMPLE OF MIDBLOCK CUMPOUT



EXAMPLE OF CUMPOUTS ON TWO CORNERS WITH CROSSWALKS AND ON-STREET PARKING



EXAMPLE OF CUMPOUTS ON ALL CORNERS WITH CROSSWALKS AND ON-STREET PARKING



TRAFFIC CALMING & SAFETY ANALYSIS  
for Upper Dublin Township  
Fort Washington Ave & Summit Ave

Cumpout Concepts on Fort Washington Ave



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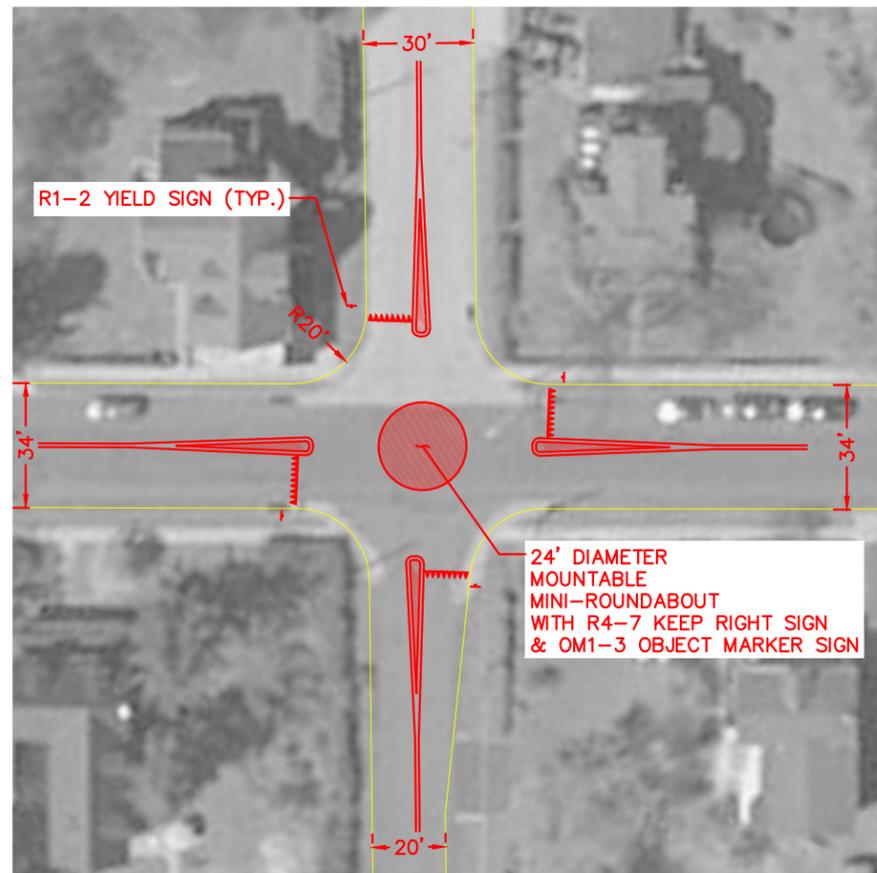
April 2017

## **APPENDIX G**

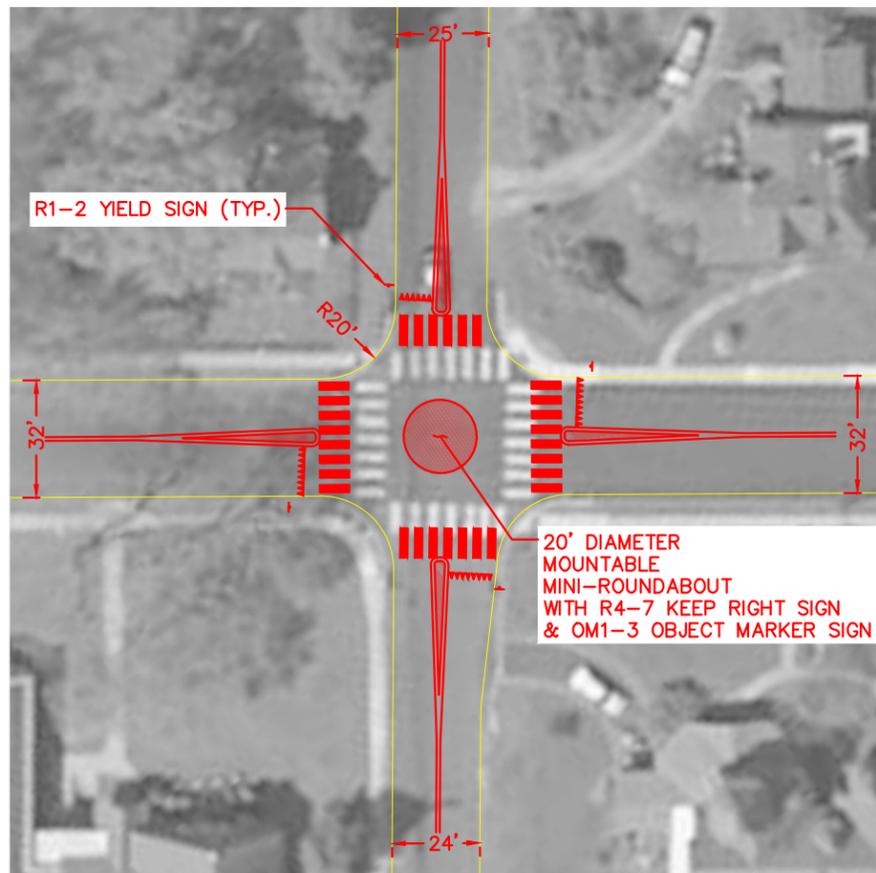
**Potential Traffic Calming Examples for Summit Avenue  
Presented at Fort Washington Neighborhood Meeting**



EXAMPLE OF MINI-ROUNDAOUT  
WITHOUT CROSSWALK  
AT MONTGOMERY AVE AND PROSPECT AVE



EXAMPLE OF MINI-ROUNDAOUT  
WITH CROSSWALK  
AT SPRING AVE



TRAFFIC CALMING & SAFETY ANALYSIS  
for Upper Dublin Township  
Fort Washington Ave & Summit Ave  
Mini-Roundabout Concepts on Summit Avenue



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April 2017