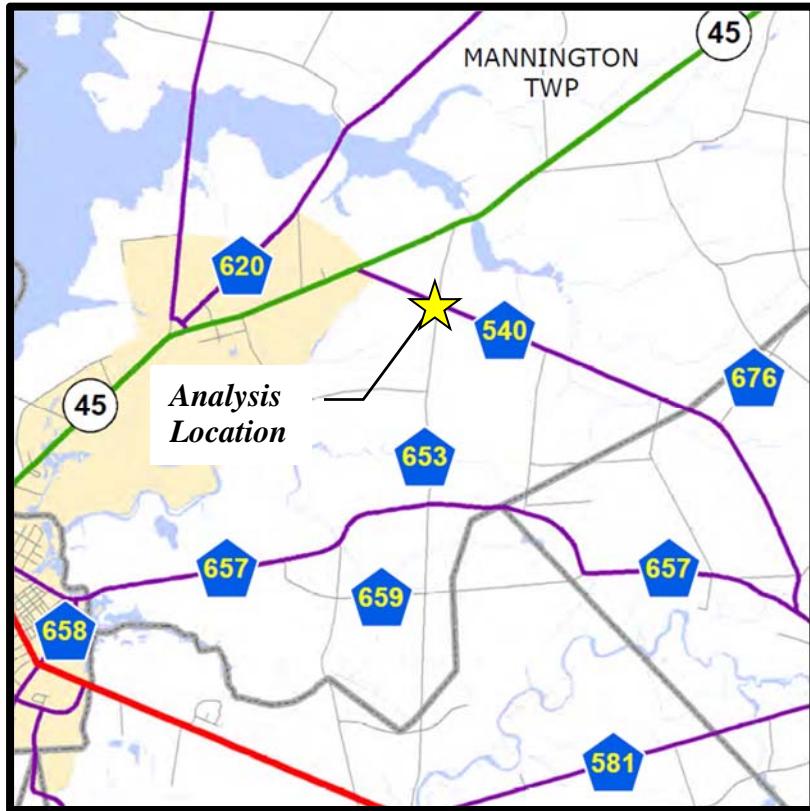


# Traffic Intersection Analysis



**Welchville-Alloway Road (C.R. 540) & Acton-Station Road (C.R. 653)**  
Mannington Township, Salem County, New Jersey

December 8, 2017

Prepared for: County of Salem

Prepared by: Remington & Vernick Engineers  
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Cherry Hill, NJ 08002  
File #: 1700F001



**REMINGTON  
& VERNICK  
ENGINEERS**

## **DISCLAIMER**

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## I. INTRODUCTION

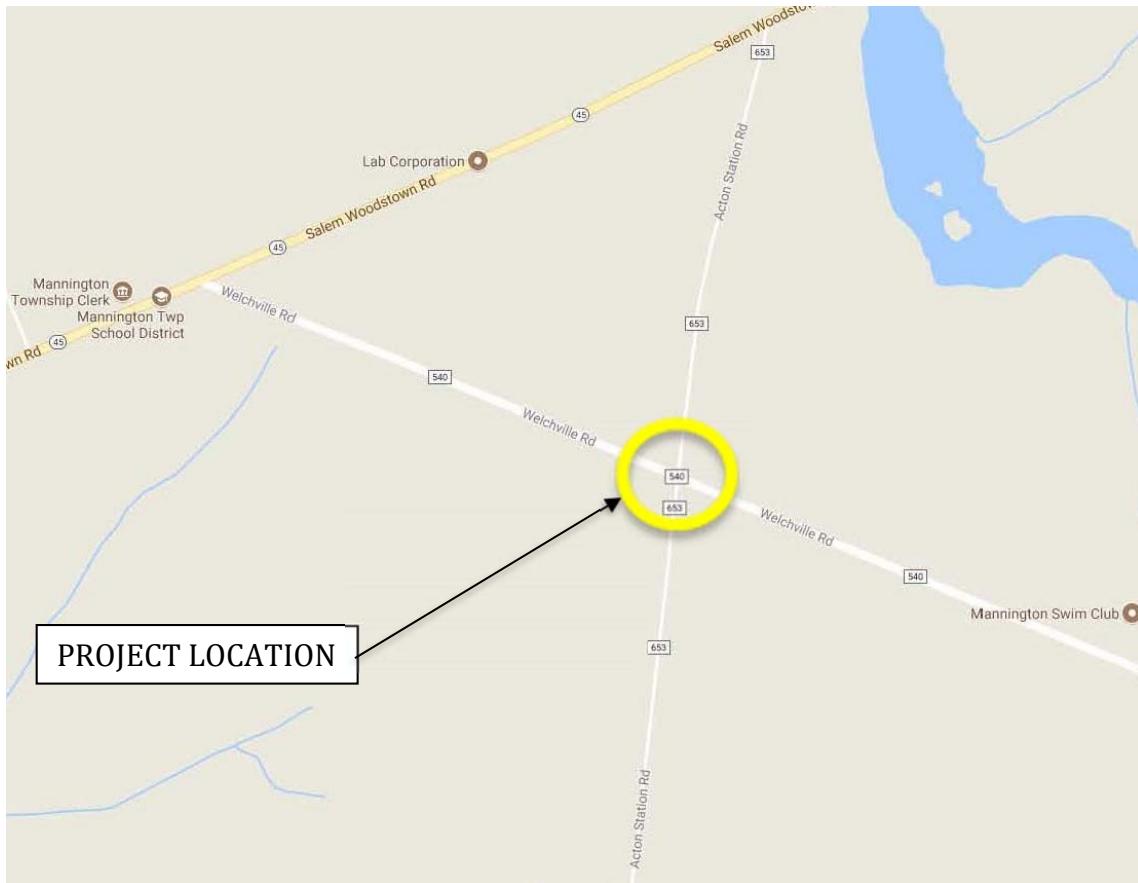
Remington & Vernick Engineers has been retained by Salem County to study, analyze and develop an improvement plan for the intersection of Welchville-Alloway Road (CR 540) and Acton-Station Road (CR 653) located in Mannington Township in Salem County, New Jersey. This work is associated with the larger Intersection & Road Analyses for the County of Salem.

The study is intended to evaluate potential improvement alternatives including vertical and horizontal intersection configuration, speed control, signage, striping, and pavement marking upgrades within the intersection's existing right-of-way. Figure 1 shows the location of the study intersection. The main objective of this report was to analyze existing conditions, traffic patterns, and improvement alternatives at the intersection and to provide a recommended course of action. In order to complete this study, the following data was collected and utilized during the course of this corridor study:

- Peak period traffic counts and speed data via radar data collection.
- Existing sight distance limitations.
- Three years of traffic crash reports within the project limits from the New Jersey State Police Department
- Physical inventory of existing pavement condition roadway/shoulder widths, signage, striping, and pavement markings.
- NJDOT Straight Line Diagrams, aerial photographs, and photos from the project area.

**Figure 1 – Location Map**

Welchville-Alloway Road (CR 540) & Acton-Station Road (CR 653)  
Mannington Township, Salem County, New Jersey



## II. EXISTING CONDITIONS

In order to evaluate the safety and operations of the existing intersection and to develop recommendations for the corridor, RVE conducted a physical inventory of various features that may affect traffic flow and safety characteristics.

The study intersection is a two-way stop controlled intersection with stop signs located along the northbound and southbound approaches of Acton-Station Road. The two-way stop control is supplemented by an overhead flashing beacon that flashes red along the approaches of Acton-Station Road and yellow along the approaches of Welchville-Alloway Road. Upon visual investigation, several signal visors are missing from the flashing beacons. There are marked stop bars and stop signs posted along Acton-Station Road and stop ahead signs are posted in advance of the intersection in the northbound and southbound directions. Welchville-Alloway Road is the busier route at this intersection as it carries the higher volume of traffic. Both roads are two-lane roads (one lane in each direction), under County jurisdiction.

Welchville-Alloway Road and Acton-Station Road are classified as a Rural Major Collector and a Rural Local road, respectively. They are located in Mannington Township, and they provide access to several connecting State and County routes. Both roads approaching the study intersection typically consist of two 12-foot travel lanes separated by a solid double yellow line (no passing zone) and 1-foot shoulders. The travel lanes in the section of Welchville-Alloway Road to the west of the study intersection are separated by a solid yellow line running parallel to a broken yellow line indicating passing is allowed in the westbound direction. As neither road has a posted speed limit within the vicinity of the study intersection, a speed limit of 50 miles per hour (MPH) is assumed based on New Jersey Statute Title 39 – Motor Vehicles and Traffic Regulation, Section 39:4-98 – Rates of speed.

At the intersection, all approaches consist of a single lane and all vehicular movements are made from a single lane. A cornfield is located on the northwest corner limiting the sight distance for vehicles traveling in the southbound and northbound direction. There is a single overhead luminaire installed on a utility pole located on the northeast corner of the intersection.

### **III. EXISTING TRAFFIC CONDITIONS**

In order to study and evaluate the intersection of Welchville-Alloway Road (CR 540) and Acton-Station Road (CR 653) traffic counts and speed data were collected by Salem County between August 22 and August 24, 2017 using radar data collection equipment. The radar detection was set up along the four approach legs of Welchville-Alloway Road and Acton-Station Road to track vehicles approaching the study intersection from all four directions. The traffic count data indicates that the morning system peak hour occurred between 8:00AM and 9:00 AM, and the evening system peak hour occurred between 5:00 PM and 6:00 PM. The existing peak hour traffic volumes are depicted in Table 1 as well as Figure 2. The Average Daily Traffic (ADT) was determined by taking an average of the volumes collected at the two radar detection stations along each road. The ADT along Welchville-Alloway Road is approximately 2,166 vehicles/day while the ADT along Acton-Station Road is approximately 1,600 vehicles/day. The raw traffic count data is provided in Appendix B.

**Table 1 – Existing Peak Hour Traffic Volumes Entering**

Approach	Volume	
	AM	PM
Acton-Station Road Northbound	53	53
Acton-Station Road Southbound	51	78
Welchville-Alloway Road Eastbound	36	84
Welchville-Alloway Road Westbound	96	75

#### **IV. CRASH HISTORY AND EVALUATIONS**

The reasons for analyzing traffic crash data are (1) to identify any crash patterns that may exist, (2) to determine the contributing factors to crashes with respect to drivers, roadway and vehicles, and (3) to develop countermeasures that will reduce the rate and severity of crashes.

A review of crash data was conducted to identify safety concerns that may exist at a particular location. The data was also used to identify intersection crash patterns, from which possible contributing factors to crashes may be identified, leading to the identification of possible remedial actions.

During a three-year period between October 2014 and October 2017, the study intersection experienced six (6) reported crashes. Table 2 summarizes the reported crashes by type of collision.

**Table 2 – Crash Summary**

Type	Total # of Crashes	% of Total	# of Personal Injuries
Sideswipe	0	0%	0
Overtake	0	0%	0
Head On	0	0%	0
Left Turn	0	0%	0
Rear End	0	0%	0
Right Angle	4	67%	2
Parked Vehicle	0	0%	0
Bike / Other	2	33%	0
<b>Total Within Scope</b>	<b>6</b>	<b>100%</b>	<b>2</b>

The above-mentioned crash data has been organized and collision diagrams showing each crash have been developed. The collision diagrams are included in Appendix C. A legend is provided to indicate the type of crash and the corresponding number of crashes for that crash type. The crash data shows a high percentage of right-angle collisions at the study intersection.

The crash data was taken directly from police reports prepared by the New Jersey State Police Department. Since the individual crash reports include personal information, they are not included with this report. The crash reports will remain on file for the duration of the study. However, the personal information related to each report are not included in the analysis.

The data indicates the predominant crash type within the study limits are right angle collisions at 67%. Other collisions also occurred at this intersection which were caused by deer entering the roadway. A total of 3 personal injuries were recorded during the three-year review period, and there was one fatal crash during this timeframe. Most of the crashes occurred during the daylight hours, in clear weather and on dry roadway conditions. These crashes can be attributed to poor visibility approaching the intersection due to limited sight distance caused by vegetation adjacent to the intersection, excessive speeds, roadside utilities, and the vertical alignment along the approaching roadway.

## V. SIGHT DISTANCE ANALYSIS

A sight distance analysis for the study intersection was prepared following the AASHTO publication *A Policy on Geometric Design of Highways and Streets* ("the green book"), which is a standard design manual accepted by NJDOT for roadway analysis. In general, recommended stopping sight distances depend upon the posted speed limit and roadway grades. The stopping sight distance is the sum of the distance traversed during the brake reaction time and the distance required to brake the vehicle to a stop. The existing sight distances at the study intersection were measured in accordance with AASHTO guidelines and compared to AASHTO's stopping sight distance on level roadways, which can be found in AASHTO – A policy on Geometric Design of Highways and Streets, and seen below in Table 3.

**Table 3 – Stopping Sight Distance**

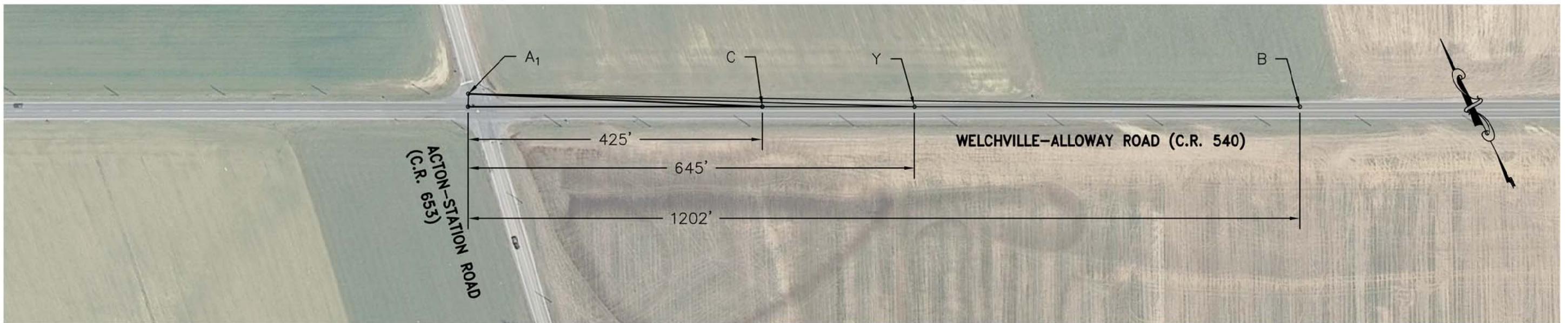
Design Speed (MPH)	Brake Reaction Distance (ft)	Braking Distance on Level (ft)	Stopping Sight Distance	
			Calculated (ft)	Design (ft)
15	55.1	21.6	76.7	80
20	73.5	38.4	111.9	115
25	91.9	60	151.9	155
30	110.3	86.4	196.7	200
35	128.6	117.6	246.2	250
40	147	153.6	300.6	305
45	165.4	194.4	359.8	360
50	183.8	240	423.8	425
55	202.1	290.3	492.4	495
60	220.5	345.5	566	570
65	238.9	405.5	644.4	645
70	257.3	470.3	727.6	730
75	275.6	539.9	815.5	820
80	294	614.3	908.3	910

The existing stopping sight distances were obtained by measuring and recording observations at the study intersection using target rods mounted at 3.5 feet to represent the driver's eye height. The target rod was walked away from the study intersection until the point where it could no longer be seen from the intersecting roadway. The study intersection provides adequate stopping sight distance in all four directions. The existing distances can be seen in Table 4 and Figure 2.

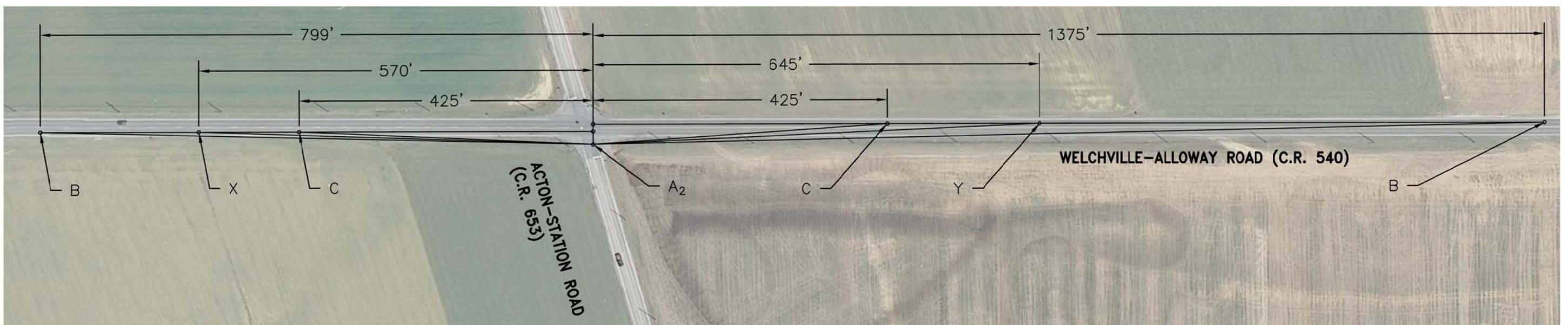
**Table 4 – Existing Sight Distance Conditions**

Stopped Approach	Looking Direction	Posted/Statutory Speed (MPH)	85th Percentile Speed (MPH)	Stopping Sight Distance (feet)		
				Recommended per Posted/Statutory Speed	85th Percentile Required	Existing
Northbound	East	50	63	425	645	1375
	West	50	60	425	570	799
Southbound	East	50	63	425	645	1202
	West	50	60	425	570	Unobstructed

As shown in Table 4, the study intersection provides adequate stopping sight distances for each approach at the posted and 85<sup>th</sup> percentile speeds. The stopping sight distance provided at the southbound approach looking west was not practical to precisely measure as it was unobstructed for a distance much greater than the recommended distance. The sight distances at this intersection are limited by existing vegetation close to the roadway, vertical alignment along the roadway, and roadside traffic signs but are still greater than recommended minimum distances.



SOUTHBOUND C.R. 653 APPROACH

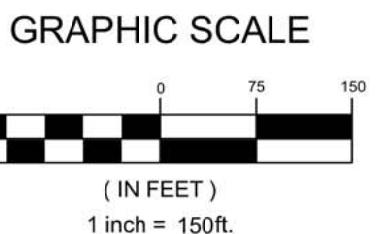


NORTHBOUND C.R. 653 APPROACH

SIGHT DISTANCE LEGEND

- A<sub>1</sub> - STOPPED VEHICLE LOCATION, SOUTHBOUND APPROACH
- A<sub>2</sub> - STOPPED VEHICLE LOCATION, NORTHBOUND APPROACH
- B - MEASURED SIGHT DISTANCE
- C - DESIGN SIGHT DISTANCE (VEHICLE SPEED=50 MPH)
- X - DESIGN SIGHT DISTANCE FOR 85<sup>TH</sup> PERCENTILE SPEED (60 MPH)
- Y - DESIGN SIGHT DISTANCE FOR 85<sup>TH</sup> PERCENTILE SPEED (65 MPH)

FIGURE 2  
STOPPING SIGHT DISTANCE  
WELCHVILLE-ALLOWAY ROAD (C.R. 540) & ACTON-STATION ROAD (C.R. 653)  
MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY  
REMINGTON & VERNICK ENGINEERS  
232 KING'S HIGHWAY EAST, HADDONFIELD, NJ 08033  
(856) 795-9595, FAX (856) 795-1882, WEB SITE ADDRESS: WWW.RVE.COM  
Certificate of Authorization: 24 GA 26003800  
DATE: 9/18/2017 DWG. NO. 1700F001 SHEET 1 of 1



## VI. SPEED LIMIT ANALYSIS

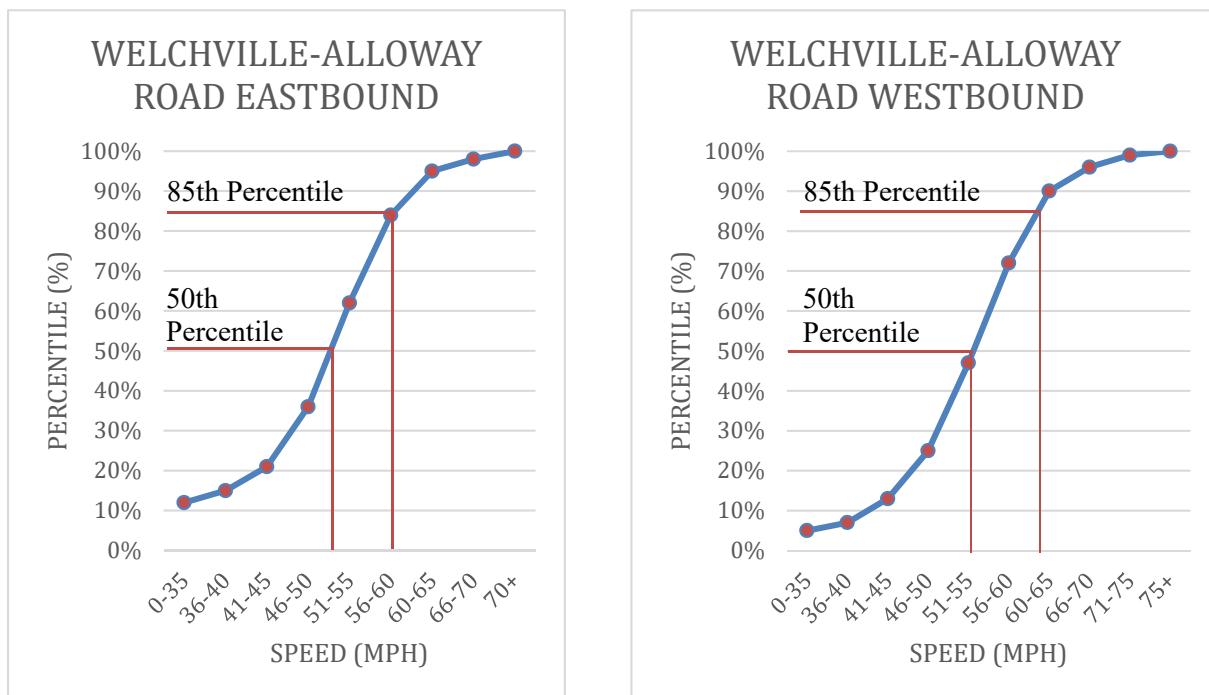
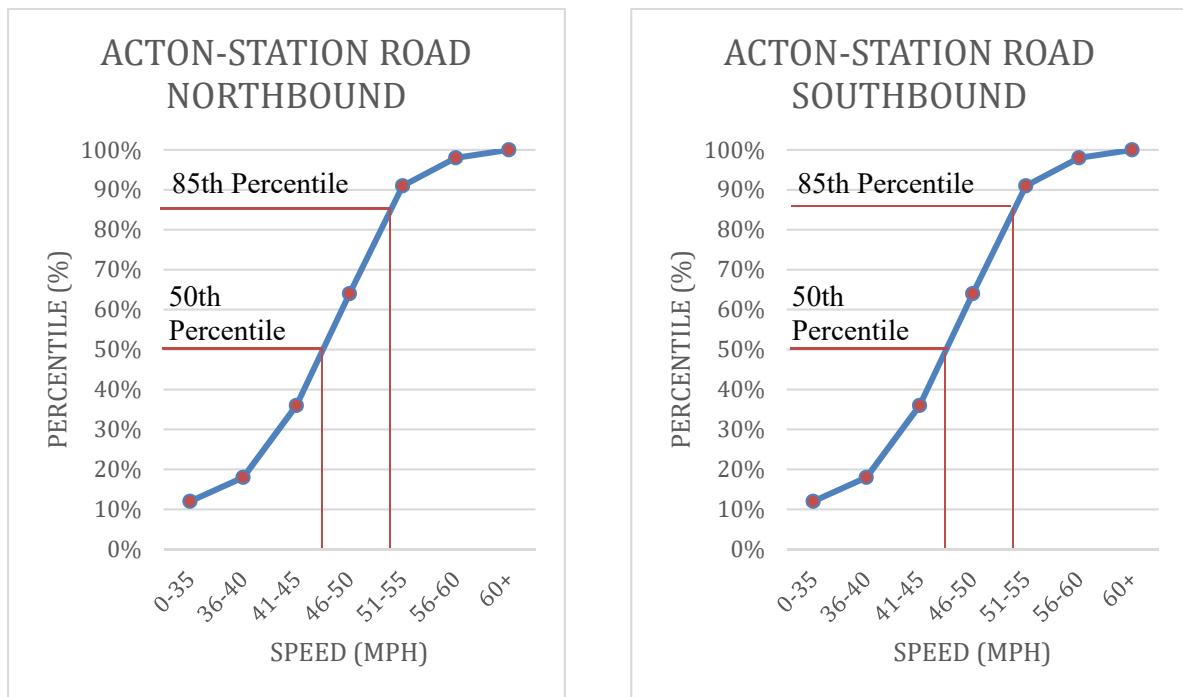
Speed data approaching the study intersection was collected using radar detection equipment between August 22 and August 24, 2017. This data was used along with the crash data and the Federal Highway Administration's speed management software USLIMITS2 in order to determine an appropriate speed limit for this area. The raw speed data can be found in Appendix C and is summarized in Table 5 and Figure 3 below.

**Table 5 – Existing Speed Data**

Approach	Posted/Statutory Speed Limit	50th Percentile Speed	85th Percentile Speed	10 MPH Pace Speed
Acton-Station Road Northbound	50	47	53	46-55
Acton-Station Road Southbound	50	47	53	46-55
Welchville-Alloway Road Eastbound	50	52	60	51-60
Welchville-Alloway Road Westbound	50	55	63	51-60

As the eastbound and westbound approaches along Welchville-Alloway Road do not have a posted speed limit within the vicinity of the study intersection, a speed limit of 50 miles per hour (MPH) is assumed based on New Jersey Statute Title 39 – Motor Vehicles and Traffic Regulation, Section 39:4-98 – Rates of speed. The speed data collected indicates a 10 MPH pace speed between 51-60 MPH, a 50<sup>th</sup> percentile speed between 51-55 MPH, and an 85<sup>th</sup> percentile speed between 61-65 MPH. Based on the collected data, the USLIMITS2 software indicated a speed limit of 60 MPH would be acceptable. However, since this is above the statutory speed limit and the study area is not inclusive of the surrounding intersections and required sight distances at those locations, we do not recommend revising the current speed limit of 50 MPH. The results of the speed limit analysis can be seen in Appendix D.

**Figure 3 – Existing Speed Data**



## **VII. TRAFFIC SIGNAL WARRANT ANALYSIS**

A traffic signal analysis was completed for the study intersection using the criteria outlined in the 2009 Manual on Uniform Traffic Control Devices (MUTCD). Specifically, the analysis was based on the guidelines listed in Chapter 4C of the MUTCD. Various signal warrants were tested and the results show that none of the nine warrants are met for either location, indicating that a new signal is not technically warranted.

It should also be noted that the intersections do not meet any of the volume based warrants that are considered the more traditional warrant source for traffic signal installations. Additionally, the crash based warrant was also below the threshold required in the MUTCD. Overall, the crash data collected between October 2014 and October 2017 shows volumes that are below the levels typically seen at a signalized intersection. A summary of each warrant can be found in Appendix E.

## **VIII. RECOMMENDATIONS**

Based on the existing conditions, a concept plan has been developed in order to mitigate safety concerns at the study intersection. The proposed improvements include relocating stop bars and installing oversized stop signs, speed limit signs, and additional pavement markings. The purpose of these improvements is to provide an increased sight distance and clear stopping point along the approaches of Acton-Station Road. The concept plan can be seen in Figure 4.

The improvement plan listed above includes improvements that aim to minimize the need for additional widening or full redesign/construction of the existing intersection. Since the sight distance and design criteria at the study intersection are in the generally acceptable ranges for the roadway classification, roadway widening and/or added signal equipment should not be the primary focus for improvement. Based on the existing conditions, the improvement scenario has been developed out of a need to improve the sight distance and safety at the study intersection.

Since our investigation did not uncover any sight distance problems at the stop-controlled legs of the intersection, driver speed and highlighting the stop condition should be the main focus of improvement. We recommend installing 50 MPH speed limit signs (R2-1) to reinforce the speed limit on Welchville-Alloway Road. We also propose repainting the stop bars on Acton-Station Road a distance of 10 feet from the edge of travel lane and installing oversized (48"x48") stop signs on these approaches for heightened visibility. Also, the signal visors that are missing from the flashing beacons should be reinstalled.

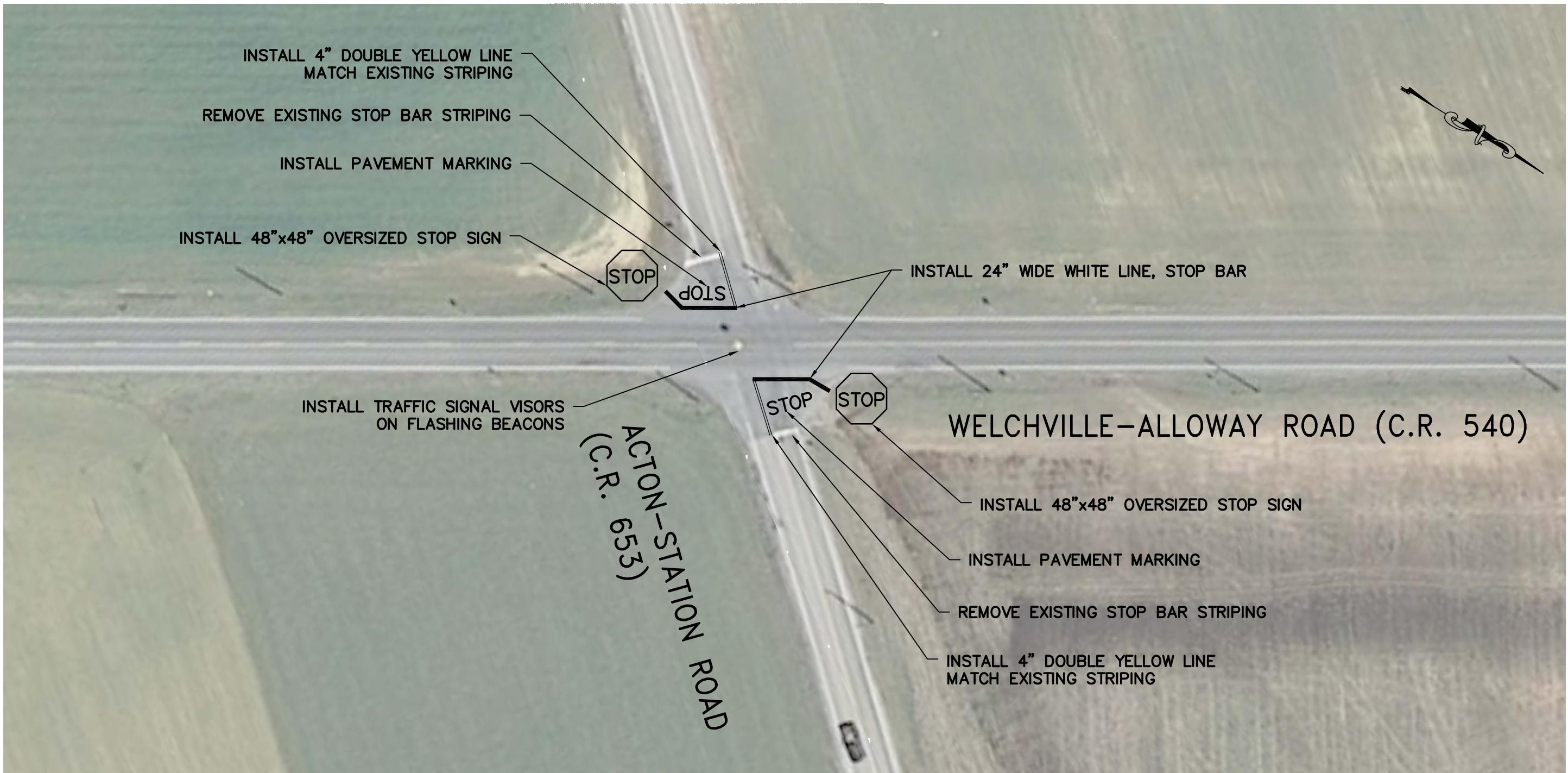


FIGURE 4  
CONCEPT PLAN  
WELCHVILLE-ALLOWAY ROAD (C.R. 540) & ACTON-STATION ROAD (C.R. 653)

MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY

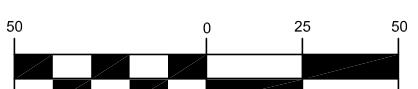
**REMINGTON & VERNICK ENGINEERS**

232 KING'S HIGHWAY EAST HADDONFIELD, NJ 08033  
(856) 795-5955, FAX (856) 795-1882, WEB SITE ADDRESS: WWW.RVE.COM

Certificate of Authorization: 24 GA 28003800

DATE: 9/18/2017 DWG. NO. 1700F001 SHEET 1 of 1

#### GRAPHIC SCALE



( IN FEET )

1 inch = 50 ft.

# Appendix A

## PHOTOS





*Looking south from Acton-Station Road*



*Looking west from Acton-Station Road*



*Looking east towards Welchville-Alloway Road*



*Looking north from Acton-Station Road*



*Missing Visors on the Flasher*



*Looking north from Acton-Station Road*

# **Appendix B**

## **TRAFFIC COUNTS & SPEED DATA**



# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 1

Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000001

Station ID:

CR 540 Welchville Road

Between NJ Route 45 & CR 653

Latitude: 0' 0.0000 Undefined

## Westbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	0	0	3	6	16	12	3	1	0	0	0	0	0	0	41	51-60	28
14:00	0	0	3	8	17	12	8	1	0	0	0	0	0	0	49	51-60	29
15:00	0	0	3	12	13	11	9	1	0	0	0	0	0	0	49	46-55	25
16:00	1	0	0	5	22	12	5	3	0	0	0	0	0	0	48	51-60	34
17:00	0	0	0	5	12	17	9	1	0	0	0	0	0	0	44	51-60	29
18:00	0	0	1	5	8	17	11	3	0	0	0	0	0	0	45	56-65	28
19:00	0	1	1	10	6	10	4	1	0	0	0	0	0	0	33	46-55	16
20:00	0	0	1	1	4	7	2	2	0	0	0	0	0	0	17	51-60	11
21:00	0	1	4	6	3	0	3	0	0	0	0	0	0	0	17	41-50	10
22:00	1	0	0	1	4	3	0	0	0	0	0	0	0	0	9	50-59	7
23:00	0	0	0	0	2	0	0	0	1	0	0	0	0	0	3	45-54	2
Total	2	2	16	59	107	101	54	13	1	0	0	0	0	0	355		
Percent	0.6%	0.6%	4.5%	16.6%	30.1%	28.5%	15.2%	3.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	16:00	19:00	21:00	15:00	16:00	17:00	18:00	16:00	23:00						14:00		
	1	1	4	12	22	17	11	3	1						49		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 2

Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000001

Station ID:

CR 540 Welchville Road

Between NJ Route 45 & CR 653

Latitude: 0' 0.0000 Undefined

## Westbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/23/17	0	0	0	2	2	0	0	0	0	0	0	0	0	0	4	45-54	4
01:00	<b>8</b>	0	1	0	0	0	0	0	0	0	0	0	0	0	9	27-36	2
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	35-44	2
03:00	0	0	1	0	3	1	0	0	0	0	0	0	0	0	5	51-60	4
04:00	0	0	1	2	3	2	2	0	0	0	1	0	0	0	11	51-60	5
05:00	2	<b>1</b>	1	3	11	15	3	1	0	0	0	0	0	0	37	51-60	26
06:00	0	0	1	4	29	<b>40</b>	14	4	<b>1</b>	0	0	0	0	0	93	51-60	69
07:00	1	0	3	8	30	15	<b>26</b>	<b>6</b>	1	1	0	0	0	0	91	51-60	45
08:00	0	0	6	20	<b>34</b>	27	10	1	1	0	0	0	0	0	<b>99</b>	51-60	61
09:00	0	0	<b>9</b>	15	19	12	4	4	1	0	0	0	0	0	64	46-55	34
10:00	0	0	5	14	16	14	6	3	0	0	0	0	0	0	58	49-58	30
11:00	1	1	5	<b>27</b>	28	10	4	1	0	0	0	0	0	0	77	46-55	55
12 PM	<b>1</b>	<b>1</b>	6	<b>15</b>	10	5	4	0	0	0	0	0	0	0	42	46-55	25
13:00	0	0	<b>9</b>	14	7	10	5	2	0	0	0	0	0	0	47	41-50	23
14:00	0	0	7	8	13	10	7	2	<b>1</b>	0	0	0	0	0	48	50-59	23
15:00	0	1	3	8	19	8	6	<b>4</b>	0	0	0	0	0	0	49	51-60	27
16:00	0	0	2	7	17	<b>17</b>	<b>8</b>	1	0	0	0	0	0	0	52	51-60	34
17:00	0	1	6	9	<b>29</b>	16	3	1	0	0	0	0	0	0	<b>65</b>	51-60	45
18:00	0	1	1	10	9	15	3	1	0	0	0	0	0	0	40	51-60	24
19:00	0	1	0	2	11	7	6	2	0	0	0	0	0	0	29	51-60	18
20:00	0	0	1	5	6	4	1	1	0	0	0	0	0	0	18	46-55	11
21:00	0	0	0	3	6	4	2	0	0	0	0	0	0	0	15	51-60	10
22:00	0	1	0	0	0	2	0	0	0	0	0	0	0	0	3	50-59	2
23:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	54-63	2
Total	13	8	70	176	302	235	115	34	5	1	1	0	0	0	960		
Percent	1.4%	0.8%	7.3%	18.3%	31.5%	24.5%	12.0%	3.5%	0.5%	0.1%	0.1%	0.0%	0.0%	0.0%			
AM Peak Vol.	01:00 8	05:00 1	09:00 9	11:00 27	08:00 34	06:00 40	07:00 26	07:00 6	06:00 1	07:00 1	07:00 1	04:00 1				08:00 99	
PM Peak Vol.	12:00 1	12:00 1	13:00 9	12:00 15	17:00 29	16:00 17	16:00 8	15:00 4	14:00 1							17:00 65	

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 3

Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000001

Station ID:

CR 540 Welchville Road

Between NJ Route 45 & CR 653

Latitude: 0' 0.0000 Undefined

## Westbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/24/17	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	34-43	1
01:00	2	1	0	0	1	0	0	0	0	0	0	0	0	0	4	35-44	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	39-48	1
05:00	2	2	0	0	0	0	0	0	0	0	0	0	0	1	5	35-44	2
06:00	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3	44-53	2
07:00	0	0	1	4	3	0	0	0	0	0	0	0	0	0	8	45-54	7
08:00	0	0	0	2	4	2	0	0	0	0	0	0	0	0	8	46-55	6
09:00	3	1	0	2	1	2	0	0	0	0	0	0	0	0	9	51-60	3
10:00	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3	44-53	2
11:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	44-53	1
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	7	4	2	11	12	6	0	0	0	0	0	0	0	0	1	43	
Percent	16.3%	9.3%	4.7%	25.6%	27.9%	14.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%		
AM Peak Vol.	09:00	05:00	00:00	07:00	08:00	08:00									05:00	09:00	
PM Peak Vol.	3	2	1	4	4	2									1	9	

Total	22	14	88	246	421	342	169	47	6	1	1	0	0	0	1	1358	
Percent	1.6%	1.0%	6.5%	18.1%	31.0%	25.2%	12.4%	3.5%	0.4%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%		
15th Percentile :																	
50th Percentile :																	
85th Percentile :																	
95th Percentile :																	

15th Percentile : 46 MPH

50th Percentile : 53 MPH

85th Percentile : 60 MPH

95th Percentile : 64 MPH

Stats	10 MPH Pace Speed :	51-60 MPH
	Number in Pace :	763
	Percent in Pace :	56.2%
	Number of Vehicles > 55 MPH :	567
	Percent of Vehicles > 55 MPH :	41.8%
	Mean Speed(Average) :	54 MPH

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 4

Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000001

Station ID:

CR 540 Welchville Road

Between NJ Route 45 & CR 653

Latitude: 0' 0.0000 Undefined

## Eastbound Lane

Start Time	1 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 80	81 85	86 90	91 95	96 999	Total	Pace Speed	Number in Pace	
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
13:00	1	2	3	10	19	5	5	0	2	0	0	0	0	0	47	46-55	29	
14:00	2	2	6	15	19	7	8	2	1	0	0	0	0	0	62	46-55	34	
15:00	1	2	5	15	28	24	8	1	1	0	0	0	0	0	85	51-60	52	
16:00	1	5	3	12	33	27	15	4	2	0	0	0	0	0	102	51-60	60	
17:00	0	0	1	9	20	31	20	9	0	0	0	1	0	0	91	53-62	51	
18:00	0	0	5	9	15	24	6	2	2	0	0	0	0	0	63	51-60	39	
19:00	1	0	2	4	18	8	5	2	1	0	0	0	0	0	41	51-60	26	
20:00	0	3	0	7	12	8	0	0	0	0	0	0	0	0	30	51-60	20	
21:00	0	0	1	3	6	3	3	1	2	0	0	0	0	0	19	46-55	9	
22:00	2	1	3	1	8	3	2	0	0	0	1	0	0	0	21	50-59	11	
23:00	14	0	1	1	5	1	0	1	1	0	0	0	0	0	24	46-55	6	
Total	22	15	30	86	183	141	72	22	12	0	1	1	0	0	585			
Percent	3.8%	2.6%	5.1%	14.7%	31.3%	24.1%	12.3%	3.8%	2.1%	0.0%	0.2%	0.2%	0.0%	0.0%				
AM Peak Vol.																		
PM Peak Vol.	23:00 14	16:00 5	14:00 6	14:00 15	16:00 33	17:00 31	17:00 20	17:00 9	13:00 2							16:00 102		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 5

Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000001

Station ID:

CR 540 Welchville Road

Between NJ Route 45 & CR 653

Latitude: 0' 0.0000 Undefined

## Eastbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/23/17	0	0	1	0	2	1	0	0	0	0	0	0	0	0	4	49-58	3
01:00	<b>94</b>	0	1	0	1	0	0	0	0	0	0	0	0	0	<b>96</b>	1-10	27
02:00	59	0	0	1	5	0	0	0	0	0	0	0	0	0	65	1-10	17
03:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	44-53	2
04:00	0	0	0	0	2	0	1	0	0	0	0	0	0	0	3	45-54	2
05:00	1	0	1	0	2	2	5	2	0	0	0	0	0	0	13	61-70	7
06:00	2	1	2	6	12	8	4	0	<b>1</b>	0	0	0	0	0	36	51-60	20
07:00	1	5	4	9	6	<b>12</b>	<b>6</b>	2	0	0	0	0	0	0	45	51-60	18
08:00	0	1	3	6	13	8	4	1	1	0	0	0	0	0	37	50-59	21
09:00	0	2	5	9	10	7	4	<b>4</b>	0	<b>1</b>	0	0	0	0	42	46-55	19
10:00	2	<b>9</b>	<b>8</b>	<b>16</b>	10	8	1	1	0	0	0	0	0	0	55	45-54	26
11:00	4	3	8	12	<b>16</b>	12	2	1	0	1	0	0	0	0	59	46-55	28
12 PM	<b>4</b>	2	6	8	13	13	3	2	0	0	0	0	0	0	51	51-60	26
13:00	4	<b>5</b>	4	14	9	12	3	1	0	0	0	0	0	0	52	46-55	23
14:00	2	2	<b>9</b>	16	16	14	7	2	0	<b>1</b>	0	0	0	0	69	46-55	32
15:00	0	2	6	8	<b>42</b>	<b>32</b>	14	5	2	1	0	0	0	0	<b>112</b>	51-60	74
16:00	0	3	2	<b>18</b>	27	22	<b>22</b>	<b>7</b>	<b>5</b>	0	0	0	0	0	106	51-60	49
17:00	2	0	2	9	26	26	12	5	2	0	0	0	0	0	84	51-60	52
18:00	1	1	0	12	33	16	5	3	0	0	0	0	0	0	71	51-60	49
19:00	0	1	2	8	9	13	7	1	0	0	0	<b>1</b>	0	0	42	51-60	22
20:00	1	0	1	7	9	7	2	2	1	0	0	0	0	0	30	47-56	16
21:00	0	1	3	3	3	9	4	1	4	0	0	<b>1</b>	0	0	29	56-65	13
22:00	0	0	0	2	4	2	2	0	0	0	0	0	0	0	10	51-60	6
23:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	34-43	1
Total	177	38	69	165	271	224	108	40	16	4	1	1	0	0	1114		
Percent	15.9%	3.4%	6.2%	14.8%	24.3%	20.1%	9.7%	3.6%	1.4%	0.4%	0.1%	0.1%	0.0%	0.0%			
AM Peak Vol.	01:00 94	10:00 9	10:00 8	10:00 16	11:00 16	07:00 12	07:00 6	09:00 4	06:00 1	09:00 1						01:00 96	
PM Peak Vol.	12:00 4	13:00 5	14:00 9	14:00 18	16:00 42	15:00 32	16:00 22	16:00 7	16:00 5	14:00 1	21:00 1	19:00 1				15:00 112	

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Telephone (856) 935 - 7510 ext. 8549

Page 6

Site Code: 54000001

Station ID:

CR 540 Welchville Road

Between NJ Route 45 & CR 653

Latitude: 0' 0.0000 Undefined

## Eastbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace	
	35	40	45	50	55	60	65	70	75	80	85	90	95	999				
08/24/17	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	34-43	1	
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	*	
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	34-43	1	
05:00	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	56-65	3	
06:00	0	0	0	2	2	1	0	0	0	0	0	0	0	0	5	46-55	4	
07:00	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	51-60	3	
08:00	0	0	0	0	1	1	2	0	0	0	0	0	0	0	4	54-63	3	
09:00	0	0	0	0	3	2	0	0	0	0	0	0	0	0	1	6	50-59	5
10:00	0	0	0	1	0	1	1	0	0	0	0	0	0	0	3	54-63	2	
11:00	0	0	0	3	1	0	0	0	1	0	0	0	0	0	5	46-55	4	
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Total	0	0	2	6	7	8	6	0	1	0	0	0	0	0	2	32		
Percent	0.0%	0.0%	6.3%	18.8%	21.9%	25.0%	18.8%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	6.3%			
AM Peak Vol.			00:00	11:00	09:00	07:00	05:00		11:00						01:00	09:00		
PM Peak Vol.			1	3	3	3	3		1						1	6		

Total	199	53	101	257	461	373	186	62	29	4	2	2	0	2	1731		
Percent	11.5%	3.1%	5.8%	14.8%	26.6%	21.5%	10.7%	3.6%	1.7%	0.2%	0.1%	0.1%	0.0%	0.1%			
15th Percentile :																	
50th Percentile :																	
85th Percentile :																	
95th Percentile :																	

15th Percentile : 40 MPH

50th Percentile : 52 MPH

85th Percentile : 60 MPH

95th Percentile : 66 MPH

Stats	10 MPH Pace Speed :	51-60 MPH
	Number in Pace :	834
	Percent in Pace :	48.2%
	Number of Vehicles > 55 MPH :	660
	Percent of Vehicles > 55 MPH :	38.1%
	Mean Speed(Average) :	50 MPH

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 1

Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000002

Station ID:

CR 540 Welchville Road

Between CR 653 and Dolbow Road

Latitude: 0' 0.0000 Undefined

## Eastbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	<b>2</b>	<b>5</b>	6	13	15	6	1	2	0	0	0	0	0	0	50	46-55	28
14:00	1	0	<b>8</b>	13	20	10	7	2	0	0	0	0	0	0	61	46-55	33
15:00	0	0	7	15	<b>37</b>	13	6	<b>3</b>	<b>1</b>	0	0	0	0	0	82	46-55	52
16:00	0	2	5	<b>18</b>	36	<b>31</b>	13	3	0	0	0	0	0	0	108	51-60	67
17:00	0	2	1	13	36	23	<b>18</b>	3	0	0	0	0	0	0	96	51-60	59
18:00	0	0	0	15	26	15	5	2	0	0	0	0	0	0	63	46-55	41
19:00	0	1	4	8	11	12	7	2	0	0	0	0	0	0	45	51-60	23
20:00	0	2	2	7	12	5	3	0	0	0	0	0	0	0	31	46-55	19
21:00	0	0	1	6	7	2	5	1	0	0	0	0	0	0	22	46-55	13
22:00	0	0	3	7	9	4	0	1	0	0	0	0	0	0	24	46-55	16
23:00	0	1	1	1	6	1	0	0	0	0	0	0	0	0	10	50-59	7
Total	3	13	38	116	215	122	65	19	1	0	0	0	0	0	592		
Percent	0.5%	2.2%	6.4%	19.6%	36.3%	20.6%	11.0%	3.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	13:00	13:00	14:00	16:00	15:00	16:00	17:00	15:00	15:00						16:00		
	2	5	8	18	37	31	18	3	1						108		

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110 Fifth Street, Suite 600  
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Page 2

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Site Code: 54000002

Station ID:

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Between CR 653 and Dolbow Road

Latitude: 0' 0.0000 Undefined

## Eastbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/23/17	35	36	40	45	50	55	60	65	70	75	80	85	90	95	999		
01:00	52	0	0	1	0	2	1	0	0	0	0	0	0	0	4	54-63	3
02:00	49	0	3	1	1	0	0	0	1	0	0	0	0	0	55	1-10	15
03:00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	55	1-10	14
04:00	0	0	1	0	1	0	1	0	0	0	0	0	0	0	3	34-43	1
05:00	0	0	1	0	2	7	1	0	1	0	0	0	0	0	12	51-60	9
06:00	0	4	2	1	10	9	6	2	0	0	0	0	0	0	34	51-60	19
07:00	0	0	5	12	17	7	5	0	0	1	0	0	0	0	47	46-55	29
08:00	0	0	3	19	15	6	2	3	0	0	0	0	0	0	48	46-55	34
09:00	0	0	4	12	11	8	3	4	0	0	0	0	0	0	42	46-55	23
10:00	0	5	13	24	9	14	2	0	0	0	0	0	0	0	67	41-50	37
11:00	0	3	11	22	13	5	4	0	0	0	0	0	0	0	58	46-55	35
12 PM	0	0	10	12	16	14	6	0	0	0	0	0	0	0	58	50-59	30
13:00	0	1	3	19	15	7	3	1	0	0	0	0	0	0	49	46-55	34
14:00	1	0	7	20	25	17	9	1	0	0	0	0	0	0	80	46-55	45
15:00	0	1	2	13	42	28	11	4	1	0	0	0	0	0	102	51-60	70
16:00	0	1	2	14	33	28	15	7	2	1	0	0	0	0	103	51-60	61
17:00	0	1	5	10	34	15	18	2	2	0	0	0	0	0	87	51-60	49
18:00	2	0	2	8	36	16	5	1	0	0	0	0	0	0	70	51-60	52
19:00	2	0	1	4	21	11	8	1	0	0	0	0	0	0	48	51-60	32
20:00	0	0	3	6	15	4	4	0	0	0	0	0	0	0	32	46-55	21
21:00	0	0	3	0	12	6	4	1	0	0	0	0	0	0	26	51-60	18
22:00	0	0	1	6	8	3	1	0	0	0	0	0	0	0	19	46-55	14
23:00	3	1	2	0	5	0	1	0	0	0	0	0	0	0	12	46-55	5
Total	109	17	85	204	343	209	110	28	6	2	0	0	0	0	1113		
Percent	9.8%	1.5%	7.6%	18.3%	30.8%	18.8%	9.9%	2.5%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.	01:00 52	10:00 5	10:00 13	10:00 24	07:00 17	10:00 14	06:00 6	09:00 4	05:00 1	07:00 1						10:00 67	
PM Peak Vol.	23:00 3	13:00 1	12:00 10	14:00 20	15:00 42	15:00 28	17:00 18	16:00 7	16:00 2	16:00 1						16:00 103	

Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Telephone (856) 935 - 7510 ext. 8549

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Site Code: 54000002

Station ID:

CR 540 Welchville Road

## Between CR 653 and Dolbow Road

Latitude: 0° 0.0000 Undefined

Eastbound Lane																	
Start Time	1 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 80	81 85	86 90	91 95	96 999	Total	Pace Speed	Number in Pace
08/24/17	0	0	0	1	4	0	0	1	0	0	0	0	0	0	6	46-55	5
01:00	0	0	1	1	1	0	1	1	0	0	0	0	0	0	5	61-70	2
02:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	59-68	1
03:00	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3	49-58	3
04:00	0	1	0	0	1	3	2	0	0	0	0	0	0	0	7	54-63	5
05:00	0	0	1	3	2	3	8	0	0	0	0	0	0	0	17	56-65	11
06:00	0	0	1	1	10	13	4	0	0	0	0	0	0	0	29	51-60	23
07:00	0	0	1	7	13	5	8	4	0	0	0	0	0	0	38	46-55	20
08:00	0	0	9	8	14	11	5	1	0	0	0	0	0	0	48	51-60	25
09:00	0	2	5	9	15	7	1	2	0	0	0	0	0	0	41	46-55	24
10:00	0	1	5	14	15	6	3	0	0	0	0	0	0	0	44	46-55	29
11:00	0	1	5	9	17	8	3	0	1	0	0	0	0	0	44	46-55	26
12 PM	0	1	3	19	24	7	3	0	0	0	0	0	0	0	57	46-55	43
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Total	0	6	31	72	118	64	38	10	1	0	0	0	0	0	340		
Percent	0.0%	1.8%	9.1%	21.2%	34.7%	18.8%	11.2%	2.9%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.	09:00 2	08:00 9	10:00 14	11:00 17	06:00 13	05:00 8	07:00 4	11:00 1								08:00 48	
PM Peak Vol.	12:00 1	12:00 3	12:00 19	12:00 24	12:00 7	12:00 3										12:00 57	
Total Percent	112 5.5%	36 1.8%	41 7.5%	46 10.2%	51 22.1%	56 10.2%	61 10.1%	66 2.8%	71 0.4%	76 0.1%	81 0.0%	86 0.0%	91 0.0%	96 0.0%		2045	

15th Percentile : 45 MPH

50th Percentile : 52 MPH

50th Percentile : 52 MPH  
85th Percentile : 59 MPH

95th Percentile : 64 MPH

Stats 10 MPH Pace Speed : 51-60 MPH

Number in Pace : 1071

Percent in Pace : 52.4%

of Vehicles > 55 MPH : 675

Percent of Vehicles > 55 MPH : 33.0%

Mean Speed(Average) : 52 MPH

11. *Sp. 100 (1939)*

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

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Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000002

Station ID:

CR 540 Welchville Road

Between CR 653 and Dolbow Road

Latitude: 0' 0.0000 Undefined

## Westbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	0	2	2	5	12	10	9	2	3	0	0	0	0	0	45	51-60	22
14:00	2	3	9	6	17	9	7	4	1	1	0	0	0	0	59	51-60	26
15:00	0	2	2	10	16	12	15	2	3	0	0	0	0	0	62	50-59	28
16:00	0	1	2	5	20	16	13	2	1	0	0	0	0	0	60	51-60	36
17:00	2	0	2	5	7	15	17	3	1	0	0	0	0	0	52	56-65	32
18:00	0	0	2	3	7	12	9	6	3	0	0	0	0	0	42	56-65	21
19:00	2	2	5	7	6	8	4	0	2	0	0	1	0	0	37	49-58	14
20:00	1	0	2	2	3	4	5	2	0	0	0	0	0	0	19	56-65	9
21:00	0	0	3	6	7	1	3	0	1	0	0	0	0	0	21	46-55	13
22:00	0	3	1	0	2	3	1	0	1	0	0	0	0	0	11	51-60	5
23:00	2	0	1	0	1	1	0	0	0	0	0	0	0	0	5	51-60	2
Total	9	13	31	49	98	91	83	21	16	1	0	1	0	0	413		
Percent	2.2%	3.1%	7.5%	11.9%	23.7%	22.0%	20.1%	5.1%	3.9%	0.2%	0.0%	0.2%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	14:00	14:00	14:00	15:00	16:00	16:00	17:00	18:00	13:00	14:00	19:00	19:00	19:00	15:00			
	2	3	9	10	20	16	17	6	3	1	1			62			

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 5

Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000002

Station ID:

CR 540 Welchville Road

Between CR 653 and Dolbow Road

Latitude: 0' 0.0000 Undefined

## Westbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/23/17	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	46-55	4
01:00	<b>34</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	34	1-10	10
02:00	24	0	0	1	0	0	0	0	0	0	0	0	0	0	25	1-10	7
03:00	0	0	2	0	1	2	0	0	0	0	0	0	0	0	5	50-59	3
04:00	0	0	0	3	2	4	1	2	0	0	0	0	0	0	12	51-60	6
05:00	0	2	1	2	3	14	12	2	2	0	0	0	0	0	38	56-65	26
06:00	0	0	0	3	19	<b>34</b>	<b>25</b>	<b>12</b>	2	0	0	1	0	0	96	56-65	59
07:00	0	0	1	4	21	25	25	9	<b>6</b>	<b>2</b>	1	0	0	0	94	56-65	50
08:00	2	2	4	<b>22</b>	<b>32</b>	24	14	6	3	1	1	0	0	0	<b>111</b>	50-59	56
09:00	3	0	4	21	20	17	14	2	2	0	0	0	0	0	83	46-55	41
10:00	4	2	7	18	12	14	5	6	0	0	1	0	0	0	69	46-55	30
11:00	8	<b>5</b>	<b>10</b>	19	21	12	11	0	1	0	0	0	0	0	87	46-55	40
12 PM	0	<b>3</b>	5	10	12	16	7	0	0	0	0	0	0	0	53	51-60	28
13:00	2	2	5	<b>13</b>	<b>19</b>	8	8	<b>4</b>	0	<b>3</b>	0	0	0	0	64	46-55	32
14:00	2	1	4	9	6	21	8	3	<b>4</b>	0	0	0	0	0	58	56-65	29
15:00	<b>3</b>	3	<b>7</b>	7	13	11	8	4	2	1	0	0	0	0	59	51-60	24
16:00	0	0	2	7	15	15	<b>17</b>	1	0	0	0	0	0	0	57	55-64	32
17:00	0	2	6	6	18	<b>24</b>	13	4	2	0	0	0	0	0	<b>75</b>	51-60	42
18:00	2	0	0	6	7	14	9	3	1	1	<b>1</b>	0	0	0	44	55-64	23
19:00	0	0	1	6	6	10	3	2	2	0	1	0	0	0	31	51-60	16
20:00	0	0	0	4	7	3	1	1	1	0	0	0	0	0	17	46-55	11
21:00	0	0	0	3	4	6	3	1	0	0	0	0	0	0	17	51-60	10
22:00	1	0	0	1	1	0	2	1	0	0	0	0	0	0	6	61-70	3
23:00	0	0	0	0	1	1	2	1	1	0	0	0	0	1	7	61-70	3
Total	85	22	59	165	244	275	188	64	29	8	5	1	0	1	1146		
Percent	7.4%	1.9%	5.1%	14.4%	21.3%	24.0%	16.4%	5.6%	2.5%	0.7%	0.4%	0.1%	0.0%	0.1%			
AM Peak Vol.	01:00 34	11:00 5	11:00 10	08:00 22	08:00 32	06:00 34	06:00 25	06:00 12	07:00 6	07:00 2	07:00 1	06:00 1			08:00 111		
PM Peak Vol.	15:00 3	12:00 3	15:00 7	13:00 13	13:00 19	17:00 24	16:00 17	13:00 4	14:00 4	13:00 3	18:00 1				23:00 1	17:00 75	

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

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Telephone (856) 935 - 7510 ext. 8549

Site Code: 54000002

Station ID:

CR 540 Welchville Road

Between CR 653 and Dolbow Road

Latitude: 0' 0.0000 Undefined

## Westbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/24/17	0	0	0	1	1	1	0	0	1	0	0	0	0	0	4	44-53	2
01:00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	59-68	1
02:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	64-73	1
03:00	0	0	1	0	1	1	0	1	0	0	0	0	0	0	4	49-58	2
04:00	2	0	2	2	2	4	4	3	0	0	0	0	0	0	19	55-64	8
05:00	0	1	0	1	8	12	14	5	0	0	0	0	0	0	41	56-65	26
06:00	0	0	0	7	17	27	27	15	4	1	0	1	0	0	99	56-65	54
07:00	0	2	3	7	15	33	25	8	2	1	0	1	0	0	97	56-65	58
08:00	0	3	2	6	26	26	20	6	2	1	0	0	0	0	92	51-60	52
09:00	0	1	3	3	15	21	10	7	1	1	0	3	0	0	65	51-60	36
10:00	0	3	3	11	21	14	9	5	0	0	0	0	0	0	66	51-60	35
11:00	2	4	2	11	12	9	3	3	2	1	0	0	0	0	49	46-55	23
12 PM	0	4	4	10	13	18	7	1	1	0	3	0	0	0	61	51-60	31
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	4	18	20	59	131	166	119	55	14	6	3	5	0	0	600		
Percent	0.7%	3.0%	3.3%	9.8%	21.8%	27.7%	19.8%	9.2%	2.3%	1.0%	0.5%	0.8%	0.0%	0.0%			
AM Peak Vol.	04:00	11:00	07:00	10:00	08:00	07:00	06:00	06:00	06:00	01:00		09:00			06:00		
PM Peak Vol.		12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00		12:00			12:00		
Total	98	53	110	273	473	532	390	140	59	15	8	7	0	1	2159		
Percent	4.5%	2.5%	5.1%	12.6%	21.9%	24.6%	18.1%	6.5%	2.7%	0.7%	0.4%	0.3%	0.0%	0.0%			

15th Percentile : 46 MPH

50th Percentile : 55 MPH

85th Percentile : 63 MPH

95th Percentile : 69 MPH

Stats 10 MPH Pace Speed : 51-60 MPH

Number in Pace : 1005

Percent in Pace : 46.5%

Number of Vehicles > 55 MPH : 1152

Percent of Vehicles > 55 MPH : 53.4%

Mean Speed(Average) : 55 MPH

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 1

Telephone (856) 935 - 7510 ext. 8549

Site Code: 01000653

Station ID:

CR 653 Acton Station Road  
Between DuBois Road and CR 540  
Latitude: 0' 0.0000 Undefined

## Northbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	2	<b>5</b>	3	8	10	3	0	0	0	0	0	0	0	0	31	46-55	18
13:00	5	2	<b>15</b>	5	9	2	0	0	0	0	0	0	0	0	38	41-50	20
14:00	4	2	3	11	8	1	1	0	0	0	0	0	0	0	30	46-55	19
15:00	1	0	5	14	17	<b>5</b>	1	<b>1</b>	0	0	0	0	0	0	44	46-55	31
16:00	1	1	9	17	<b>25</b>	5	1	0	0	0	0	0	0	0	<b>59</b>	46-55	42
17:00	0	0	5	17	21	2	<b>2</b>	0	0	0	0	0	0	0	47	46-55	38
18:00	6	4	10	<b>20</b>	11	2	2	0	0	0	0	0	0	0	55	44-53	31
19:00	4	3	6	11	10	4	1	0	0	0	0	0	0	0	39	46-55	21
20:00	4	0	3	3	6	0	1	0	0	0	0	0	0	0	17	46-55	9
21:00	1	0	0	5	1	0	1	0	0	0	0	0	0	0	8	44-53	6
22:00	1	0	2	7	4	0	0	0	0	0	0	0	0	0	14	45-54	11
23:00	<b>8</b>	1	0	2	0	1	0	0	0	0	0	0	0	0	12	46-55	2
Total	37	18	61	120	122	25	10	1	0	0	0	0	0	0	394		
Percent	9.4%	4.6%	15.5%	30.5%	31.0%	6.3%	2.5%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak Vol.																	
PM Peak Vol.	23:00	12:00	13:00	18:00	16:00	15:00	17:00	15:00							16:00		
	8	5	15	20	25	5	2	1							59		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 2

Telephone (856) 935 - 7510 ext. 8549

Site Code: 01000653

Station ID:

CR 653 Acton Station Road  
Between DuBois Road and CR 540  
Latitude: 0' 0.0000 Undefined

## Northbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/23/17	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	44-53	1
01:00	<b>52</b>	0	1	0	0	0	0	0	0	0	0	0	0	0	<b>53</b>	1-10	15
02:00	38	2	0	1	0	0	0	0	0	0	0	0	0	0	41	1-10	11
03:00	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3	39-48	2
04:00	1	1	2	4	1	0	0	0	0	0	0	0	0	0	9	41-50	6
05:00	3	5	6	6	5	1	1	0	0	0	0	0	0	0	27	39-48	12
06:00	2	3	7	<b>19</b>	<b>17</b>	4	1	0	0	0	0	0	0	0	53	46-55	36
07:00	2	1	13	10	17	<b>6</b>	<b>2</b>	0	0	0	0	0	0	0	51	46-55	27
08:00	2	2	12	10	14	2	1	<b>2</b>	0	0	0	0	0	0	45	45-54	24
09:00	1	2	<b>15</b>	12	15	3	2	0	0	0	0	0	0	0	50	41-50	27
10:00	0	3	14	10	9	3	1	0	0	0	0	0	0	0	40	41-50	24
11:00	2	<b>6</b>	8	10	9	3	0	0	0	0	0	0	0	0	38	46-55	19
12 PM	2	1	7	12	3	1	0	0	0	0	0	0	0	0	26	41-50	19
13:00	2	4	10	11	7	0	0	0	0	0	0	0	0	0	34	41-50	21
14:00	1	<b>5</b>	9	12	11	6	0	<b>1</b>	0	0	0	0	0	0	45	45-54	23
15:00	0	4	<b>13</b>	18	<b>18</b>	1	0	0	0	0	0	0	0	0	54	46-55	36
16:00	0	3	10	<b>24</b>	17	6	0	0	0	0	0	0	0	0	<b>60</b>	46-55	41
17:00	<b>4</b>	3	9	13	14	<b>8</b>	<b>2</b>	0	0	0	0	0	0	0	53	46-55	27
18:00	0	1	6	15	17	5	2	0	0	0	0	0	0	0	46	46-55	32
19:00	4	0	4	12	5	0	0	0	0	0	0	0	0	0	25	44-53	17
20:00	1	0	7	8	4	2	0	0	0	0	0	0	0	0	22	41-50	15
21:00	0	2	3	3	2	0	1	0	0	0	0	0	0	0	11	41-50	6
22:00	0	1	2	2	3	1	0	0	0	0	0	0	0	0	9	46-55	5
23:00	1	1	0	3	1	1	0	1	0	0	0	0	0	0	8	46-55	4
Total	118	50	159	216	191	53	13	4	0	0	0	0	0	0	804		
Percent	14.7%	6.2%	19.8%	26.9%	23.8%	6.6%	1.6%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	01:00	11:00	09:00	06:00	06:00	07:00	07:00	08:00							01:00		
Vol.	52	6	15	19	17	6	2	2							53		
PM Peak	17:00	14:00	15:00	16:00	15:00	17:00	17:00	14:00							16:00		
Vol.	4	5	13	24	18	8	2	1							60		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 3

Telephone (856) 935 - 7510 ext. 8549

Site Code: 01000653

Station ID:

CR 653 Acton Station Road  
Between DuBois Road and CR 540  
Latitude: 0' 0.0000 Undefined

## Northbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/24/17	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	45-54	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	1	0	1	1	0	0	0	0	0	0	0	0	3	49-58	2
04:00	0	1	2	0	5	0	0	0	0	0	0	0	0	0	8	46-55	5
05:00	0	0	4	4	0	0	1	1	0	0	0	0	0	0	10	41-50	8
06:00	0	0	1	4	5	0	1	0	0	0	0	0	0	0	11	46-55	9
07:00	0	0	0	8	10	2	0	0	0	0	0	1	0	0	21	46-55	18
08:00	0	3	6	3	7	4	2	0	0	0	0	0	0	0	25	51-60	11
09:00	1	0	4	8	4	0	0	0	0	0	0	0	0	0	17	46-55	12
10:00	0	1	2	0	7	0	0	0	0	0	0	0	0	0	10	46-55	7
11:00	0	0	3	6	4	2	0	0	0	0	0	0	0	0	15	46-55	10
12 PM	0	0	5	6	8	3	0	0	0	0	0	0	0	0	22	46-55	14
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1	5	28	39	53	12	4	1	0	0	1	0	0	0	144		
Percent	0.7%	3.5%	19.4%	27.1%	36.8%	8.3%	2.8%	0.7%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
AM Peak	09:00	08:00	08:00	07:00	07:00	08:00	08:00	05:00			07:00					08:00	
Vol.	1	3	6	8	10	4	2	1			1					25	
PM Peak			12:00	12:00	12:00	12:00										12:00	
Vol.			5	6	8	3										22	
Total	156	73	248	375	366	90	27	6	0	0	1	0	0	0	0	1342	
Percent	11.6%	5.4%	18.5%	27.9%	27.3%	6.7%	2.0%	0.4%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

15th Percentile : 38 MPH

50th Percentile : 47 MPH

85th Percentile : 53 MPH

95th Percentile : 58 MPH

Stats 10 MPH Pace Speed : 46-55 MPH

Number in Pace : 741

Percent in Pace : 55.2%

Number of Vehicles > 55 MPH : 124

Percent of Vehicles > 55 MPH : 9.2%

Mean Speed(Average) : 45 MPH

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 4

Telephone (856) 935 - 7510 ext. 8549

Site Code: 01000653

Station ID:

CR 653 Acton Station Road  
Between DuBois Road and CR 540  
Latitude: 0' 0.0000 Undefined

## Southbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	0	0	6	15	8	2	0	1	0	0	0	0	0	0	32	45-54	23
13:00	5	3	5	14	8	1	0	0	0	1	0	0	0	0	37	46-55	22
14:00	3	2	9	12	11	5	0	0	0	0	0	0	0	0	42	45-54	23
15:00	5	3	3	18	10	5	1	0	0	0	0	0	0	0	45	46-55	28
16:00	1	3	15	15	11	8	2	0	0	0	0	0	0	0	55	41-50	30
17:00	2	3	12	28	25	12	3	0	0	0	0	0	0	0	85	46-55	53
18:00	9	4	7	15	5	6	0	0	0	0	0	0	0	0	46	41-50	22
19:00	2	3	10	8	6	6	0	1	0	0	0	0	0	0	36	41-50	18
20:00	5	2	8	8	9	1	1	0	0	0	0	0	0	0	34	44-53	17
21:00	1	0	0	5	2	1	1	0	0	0	0	0	0	0	10	46-55	7
22:00	1	4	2	3	3	1	0	0	0	0	0	0	0	0	14	35-44	6
23:00	1	0	2	1	3	1	0	0	0	0	0	0	0	0	8	51-60	4
Total	35	27	79	142	101	49	8	2	0	1	0	0	0	0	444		
Percent	7.9%	6.1%	17.8%	32.0%	22.7%	11.0%	1.8%	0.5%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	18:00	18:00	16:00	17:00	17:00	17:00	17:00	12:00		13:00					17:00		
	9	4	15	28	25	12	3	1		1					85		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 5

Telephone (856) 935 - 7510 ext. 8549

Site Code: 01000653

Station ID:

CR 653 Acton Station Road  
Between DuBois Road and CR 540  
Latitude: 0' 0.0000 Undefined

## Southbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/23/17	0	1	0	2	1	1	0	0	0	0	0	0	0	0	5	46-55	3
01:00	<b>14</b>	0	0	0	1	0	0	0	0	0	0	0	0	0	15	26-35	4
02:00	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3	40-49	2
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	29-38	1
04:00	0	0	0	2	4	1	1	0	0	0	0	0	0	0	8	46-55	6
05:00	1	2	1	6	6	2	0	1	0	0	0	0	0	0	19	46-55	12
06:00	0	2	4	<b>14</b>	<b>17</b>	<b>9</b>	<b>6</b>	<b>2</b>	0	1	0	0	0	0	<b>55</b>	46-55	31
07:00	0	0	3	7	8	2	2	0	0	0	0	0	0	0	22	46-55	15
08:00	1	<b>5</b>	6	11	2	2	2	1	0	0	0	0	0	0	30	41-50	17
09:00	0	5	3	8	5	1	0	0	0	0	0	0	0	0	22	45-54	13
10:00	4	4	5	6	3	4	1	0	0	0	0	0	0	0	27	40-49	11
11:00	3	3	<b>12</b>	8	5	3	1	1	0	0	0	0	0	0	36	41-50	20
12 PM	1	1	7	11	5	1	1	1	0	0	0	0	0	0	28	41-50	18
13:00	3	5	6	10	4	4	2	0	<b>1</b>	0	0	0	0	0	35	41-50	16
14:00	2	3	<b>14</b>	11	6	4	2	1	1	0	0	0	0	0	44	41-50	25
15:00	<b>7</b>	5	12	23	7	4	<b>5</b>	0	0	0	0	0	0	0	63	41-50	35
16:00	2	2	4	9	<b>21</b>	<b>9</b>	3	1	0	0	0	0	0	0	51	48-57	30
17:00	3	3	12	<b>29</b>	21	5	3	0	0	0	0	0	0	0	<b>76</b>	46-55	50
18:00	0	0	6	15	9	7	0	<b>3</b>	0	0	0	0	0	0	40	46-55	24
19:00	2	4	5	20	16	1	2	0	0	0	0	0	0	0	50	46-55	36
20:00	4	<b>6</b>	11	6	9	1	0	1	0	<b>1</b>	0	0	0	0	39	36-45	17
21:00	2	3	6	6	6	4	3	1	0	0	<b>1</b>	0	0	0	32	41-50	12
22:00	0	1	0	10	3	3	0	0	0	0	0	0	0	0	17	46-55	13
23:00	0	1	2	1	1	3	0	0	0	0	0	0	0	0	8	51-60	4
Total	50	57	119	217	160	71	34	13	2	2	1	0	0	0	726		
Percent	6.9%	7.9%	16.4%	29.9%	22.0%	9.8%	4.7%	1.8%	0.3%	0.3%	0.1%	0.0%	0.0%	0.0%			
AM Peak Vol.	01:00	08:00	11:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00		06:00	
PM Peak Vol.	15:00	20:00	14:00	17:00	16:00	16:00	15:00	18:00	13:00	20:00	21:00	21:00	21:00	21:00		17:00	
	7	6	14	29	21	9	5	3	1	1	1	1	1	1		76	

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

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Telephone (856) 935 - 7510 ext. 8549

Site Code: 01000653

Station ID:

CR 653 Acton Station Road  
Between DuBois Road and CR 540  
Latitude: 0' 0.0000 Undefined

## Southbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/24/17	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3	35-44	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	44-53	2
04:00	2	0	0	3	1	1	0	0	0	0	0	0	0	0	7	46-55	4
05:00	0	0	0	2	1	3	0	1	1	0	0	0	0	0	8	51-60	4
06:00	0	0	2	4	10	5	2	1	0	0	0	0	0	0	24	49-58	15
07:00	2	0	1	4	5	0	2	1	0	0	0	0	0	0	15	46-55	9
08:00	0	2	2	3	3	1	0	0	0	0	0	0	0	0	11	44-53	6
09:00	0	0	1	4	1	3	0	0	0	0	0	0	0	0	9	43-52	5
10:00	2	0	5	2	3	4	1	0	0	0	0	0	0	0	17	40-49	7
11:00	0	0	4	1	2	3	0	0	0	0	0	0	0	0	10	39-48	5
12 PM	1	0	1	3	5	0	0	0	0	0	0	0	0	0	10	46-55	8
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	7	2	18	27	32	21	5	3	1	0	0	0	0	0	116		
Percent	6.0%	1.7%	15.5%	23.3%	27.6%	18.1%	4.3%	2.6%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
AM Peak Vol.	04:00	08:00	10:00	06:00	06:00	06:00	06:00	05:00	05:00						06:00		
PM Peak Vol.	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00						24		
Total	92	86	216	386	293	141	47	18	3	3	1	0	0	0	0	1286	
Percent	7.2%	6.7%	16.8%	30.0%	22.8%	11.0%	3.7%	1.4%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

15th Percentile : 40 MPH

50th Percentile : 48 MPH

85th Percentile : 55 MPH

95th Percentile : 60 MPH

Stats 10 MPH Pace Speed : 46-55 MPH

Number in Pace : 679

Percent in Pace : 52.8%

Number of Vehicles > 55 MPH : 213

Percent of Vehicles > 55 MPH : 16.6%

Mean Speed(Average) : 48 MPH

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 1

Telephone (856) 935 - 7510 ext. 8549

Site Code: 02000653

Station ID:

CR 653 Acton Station Road  
Between CR 540 and NJ Route 45  
Latitude: 0' 0.0000 Undefined

## Southbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	0	6	12	11	4	1	0	0	1	0	0	0	0	0	35	41-50	23
13:00	1	8	9	12	8	1	1	0	0	0	0	0	0	0	40	41-50	21
14:00	2	1	9	18	12	4	0	1	0	0	0	0	0	0	47	46-55	30
15:00	2	4	6	15	4	5	0	0	0	0	0	0	0	0	36	41-50	21
16:00	3	6	15	15	17	3	0	1	0	0	0	0	0	0	60	45-54	32
17:00	2	1	13	32	31	3	1	0	0	0	0	0	0	0	83	46-55	63
18:00	3	2	6	19	11	2	0	0	0	0	0	0	0	0	43	46-55	30
19:00	1	2	9	17	6	0	1	1	0	0	0	0	0	0	37	41-50	26
20:00	1	8	5	14	3	2	0	0	0	0	0	0	0	0	33	41-50	19
21:00	0	0	3	4	3	1	0	0	0	0	0	0	0	0	11	41-50	7
22:00	0	2	6	3	2	3	0	0	0	0	0	0	0	0	16	39-48	9
23:00	1	0	2	5	0	0	0	0	0	0	0	0	0	0	8	41-50	7
Total	16	40	95	165	101	25	3	3	1	0	0	0	0	0	449		
Percent	3.6%	8.9%	21.2%	36.7%	22.5%	5.6%	0.7%	0.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	16:00	13:00	16:00	17:00	17:00	15:00	13:00	14:00	12:00						17:00		
	3	8	15	32	31	5	1	1	1						83		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 2

Telephone (856) 935 - 7510 ext. 8549

Site Code: 02000653

Station ID:

CR 653 Acton Station Road  
Between CR 540 and NJ Route 45  
Latitude: 0' 0.0000 Undefined

## Southbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/23/17	0	1	1	3	0	0	0	0	0	0	0	0	0	0	5	40-49	4
01:00	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3	44-53	2
02:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	39-48	1
03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	35-44	*
04:00	0	0	1	3	2	2	0	0	0	0	0	0	0	0	8	44-53	5
05:00	0	2	0	5	5	5	1	0	0	0	0	0	0	0	18	46-55	10
06:00	2	0	3	18	17	6	2	2	0	1	0	0	0	0	51	46-55	35
07:00	0	1	7	8	7	2	0	0	0	0	0	0	0	0	25	44-53	15
08:00	4	5	11	7	3	3	1	0	0	0	0	0	0	0	34	40-49	18
09:00	2	4	7	4	6	0	0	0	0	0	0	0	0	0	23	36-45	11
10:00	2	6	6	7	3	1	1	0	0	0	0	0	0	0	26	39-48	13
11:00	4	11	7	12	3	1	0	0	0	0	0	0	0	0	38	41-50	19
12 PM	1	5	11	10	3	2	0	0	0	0	0	0	0	0	32	41-50	21
13:00	2	4	6	13	4	3	1	0	0	0	0	0	0	0	33	41-50	19
14:00	3	6	14	19	8	4	0	0	1	0	0	0	0	0	55	41-50	33
15:00	3	2	13	17	14	2	0	0	0	0	0	0	0	0	51	44-53	31
16:00	0	1	3	12	20	5	1	0	0	0	0	0	0	0	42	46-55	32
17:00	2	4	17	34	14	4	3	0	0	0	0	0	0	0	78	41-50	51
18:00	0	0	8	14	9	1	0	1	0	0	0	0	0	0	33	44-53	23
19:00	7	2	11	16	18	0	1	0	0	0	0	0	0	0	55	46-55	34
20:00	5	3	9	15	4	1	2	0	0	0	0	0	0	0	39	41-50	24
21:00	1	2	5	10	7	7	0	0	0	0	0	0	0	0	32	45-54	17
22:00	0	2	4	5	3	1	0	0	0	0	0	0	0	0	15	41-50	9
23:00	0	1	2	3	2	3	0	1	0	0	0	0	0	0	12	40-49	5
Total	39	62	146	237	153	54	13	4	1	1	0	0	0	0	710		
Percent	5.5%	8.7%	20.6%	33.4%	21.5%	7.6%	1.8%	0.6%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.	08:00	11:00	08:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00		06:00	
PM Peak Vol.	19:00	14:00	17:00	17:00	16:00	21:00	17:00	18:00	14:00						17:00		
	7	6	17	34	20	7	3	1	1						78		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 3

Telephone (856) 935 - 7510 ext. 8549

Site Code: 02000653

Station ID:

CR 653 Acton Station Road  
Between CR 540 and NJ Route 45  
Latitude: 0' 0.0000 Undefined

## Southbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/24/17	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	39-48	2
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	44-53	1
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	34-43	1
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	44-53	1
04:00	0	0	2	2	0	1	1	0	0	0	0	0	0	0	6	41-50	4
05:00	0	1	1	0	0	1	0	0	0	0	0	0	0	0	3	34-43	2
06:00	0	0	0	2	6	0	0	0	0	0	0	0	0	0	8	46-55	8
07:00	0	1	0	2	0	1	1	0	0	0	0	0	0	0	5	56-65	2
08:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	35-44	*
09:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	34-43	1
10:00	0	1	0	2	0	0	0	0	0	0	0	0	0	0	3	39-48	2
11:00	0	0	1	1	2	0	0	0	0	0	0	0	0	0	4	44-53	3
12 PM	1	0	0	2	1	0	0	0	0	0	0	0	0	0	4	44-53	3
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	2	3	7	12	11	3	2	0	0	0	0	0	0	0	40		
Percent	5.0%	7.5%	17.5%	30.0%	27.5%	7.5%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
AM Peak	08:00	05:00	04:00	04:00	06:00	04:00	04:00									06:00	
Vol.	1	1	2	2	6	1	1									8	
PM Peak	12:00		12:00	12:00												12:00	
Vol.	1		2	1												4	
Total	57	105	248	414	265	82	18	7	2	1	0	0	0	0	0	1199	
Percent	4.8%	8.8%	20.7%	34.5%	22.1%	6.8%	1.5%	0.6%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

15th Percentile : 40 MPH

50th Percentile : 47 MPH

85th Percentile : 53 MPH

95th Percentile : 58 MPH

Stats	10 MPH Pace Speed :	46-55 MPH
	Number in Pace :	679
	Percent in Pace :	56.6%
	Number of Vehicles > 55 MPH :	110
	Percent of Vehicles > 55 MPH :	9.2%
	Mean Speed(Average) :	47 MPH

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

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Telephone (856) 935 - 7510 ext. 8549

Site Code: 02000653

Station ID:

CR 653 Acton Station Road  
Between CR 540 and NJ Route 45  
Latitude: 0' 0.0000 Undefined

## Northbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
Time	35	40	45	50	55	60	65	70	75	80	85	90	95	999			
08/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	1	2	8	14	6	3	0	0	3	0	0	0	0	0	37	41-50	22
13:00	1	2	14	11	9	1	0	0	0	0	0	0	0	0	38	41-50	25
14:00	2	4	5	9	8	6	1	0	0	0	0	0	0	0	35	46-55	17
15:00	4	0	10	11	18	6	3	0	0	0	0	0	0	0	52	46-55	29
16:00	2	5	10	14	23	14	0	0	0	0	0	0	0	0	68	48-57	37
17:00	0	1	6	14	24	7	0	0	0	0	0	0	0	0	52	46-55	38
18:00	1	3	7	22	10	4	4	0	0	0	0	0	0	0	51	46-55	32
19:00	4	2	4	13	10	7	1	0	0	0	0	0	0	0	41	46-55	23
20:00	0	3	2	9	3	2	0	0	0	0	0	0	0	0	19	46-55	12
21:00	0	0	3	6	1	0	0	1	0	0	0	0	0	0	11	41-50	9
22:00	0	0	3	5	7	0	0	0	0	0	0	0	0	0	15	46-55	12
23:00	18	0	0	2	2	0	0	0	0	0	0	0	0	0	22	26-35	5
Total	33	22	72	130	121	50	9	1	3	0	0	0	0	0	441		
Percent	7.5%	5.0%	16.3%	29.5%	27.4%	11.3%	2.0%	0.2%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	23:00	16:00	13:00	18:00	17:00	16:00	18:00	21:00	12:00						16:00		
	18	5	14	22	24	14	4	1	3						68		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
Salem New Jersey 08079

Page 5

Telephone (856) 935 - 7510 ext. 8549

Site Code: 02000653

Station ID:

CR 653 Acton Station Road  
Between CR 540 and NJ Route 45  
Latitude: 0' 0.0000 Undefined

## Northbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace
08/23/17	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	39-48	1
01:00	<b>134</b>	0	0	0	1	0	0	0	0	0	0	0	0	0	<b>135</b>	26-35	38
02:00	68	0	2	0	0	0	0	0	0	0	0	0	0	0	70	26-35	19
03:00	0	0	0	0	2	0	0	<b>1</b>	0	0	0	0	0	0	3	45-54	2
04:00	0	1	2	4	1	1	0	0	0	0	0	0	0	0	9	41-50	6
05:00	2	4	6	10	3	2	0	0	0	0	0	0	0	0	27	41-50	16
06:00	2	1	2	<b>26</b>	16	<b>8</b>	1	1	0	0	0	0	0	0	57	46-55	42
07:00	0	5	10	11	13	7	<b>2</b>	0	<b>1</b>	0	0	0	0	0	49	46-55	24
08:00	4	<b>6</b>	9	11	<b>18</b>	8	0	0	0	0	0	0	0	0	56	46-55	29
09:00	3	2	<b>15</b>	13	16	4	1	0	1	0	0	0	0	0	55	44-53	29
10:00	2	5	8	17	4	2	1	0	0	0	0	0	0	0	39	41-50	25
11:00	2	5	11	8	11	1	1	0	0	0	0	0	0	0	39	41-50	19
12 PM	2	<b>6</b>	5	10	5	1	1	0	0	0	0	0	0	0	30	41-50	15
13:00	3	6	<b>10</b>	17	7	1	0	<b>1</b>	0	0	0	0	0	0	45	41-50	27
14:00	2	4	9	<b>22</b>	6	6	0	0	0	0	0	0	0	0	49	41-50	31
15:00	4	6	9	18	14	8	1	0	0	0	0	0	0	0	<b>60</b>	46-55	32
16:00	<b>6</b>	1	9	20	14	7	<b>3</b>	0	0	0	0	0	0	0	60	46-55	34
17:00	0	1	6	17	<b>21</b>	4	2	0	0	0	0	0	0	0	51	46-55	38
18:00	0	0	5	15	14	<b>9</b>	2	1	0	0	0	0	0	0	46	46-55	29
19:00	4	0	2	12	5	0	2	0	<b>1</b>	0	0	0	0	0	26	46-55	17
20:00	2	0	6	8	4	1	0	0	0	0	0	0	0	0	21	41-50	14
21:00	0	0	3	6	2	1	1	0	0	0	0	0	0	0	13	41-50	9
22:00	0	1	1	4	2	0	0	0	0	0	0	0	0	0	8	44-53	6
23:00	0	0	2	2	3	3	0	0	0	0	0	0	0	0	10	49-58	6
Total	240	54	132	252	182	74	18	4	3	0	0	0	0	0	959		
Percent	25.0%	5.6%	13.8%	26.3%	19.0%	7.7%	1.9%	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.	01:00	08:00	09:00	06:00	08:00	06:00	07:00	03:00	07:00						01:00		
	134	6	15	26	18	8	2	1	1						135		
PM Peak Vol.	16:00	12:00	13:00	14:00	17:00	18:00	16:00	13:00	19:00						15:00		
	6	6	10	22	21	9	3	1	1						60		

# Salem County Engineers Office

110 Fifth Street, Suite 600  
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Page 6

Telephone (856) 935 - 7510 ext. 8549

Site Code: 02000653

Station ID:

CR 653 Acton Station Road  
Between CR 540 and NJ Route 45  
Latitude: 0' 0.0000 Undefined

## Northbound Lane

Start Time	1	36	41	46	51	56	61	66	71	76	81	86	91	96	Total	Pace Speed	Number in Pace	
08/24/17	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	4	46-55	4
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	29-38	1	
03:00	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	40-49	2	
04:00	0	0	2	1	3	2	1	0	0	0	0	0	0	0	9	51-60	5	
05:00	1	1	2	3	0	0	0	0	0	0	0	0	0	0	7	40-49	5	
06:00	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3	35-44	2	
07:00	0	0	1	2	5	1	0	0	0	0	0	0	0	0	9	46-55	7	
08:00	0	0	1	3	1	0	0	0	0	0	0	0	0	0	5	46-55	4	
09:00	0	0	2	1	2	0	0	0	0	0	0	0	0	0	5	39-48	3	
10:00	1	1	0	1	1	0	0	0	0	0	0	0	0	0	4	44-53	2	
11:00	0	0	0	3	1	0	0	0	0	1	0	0	0	0	5	46-55	4	
12 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	49-58	1	
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Total	2	3	10	17	16	5	1	0	1	0	0	0	0	0	55			
Percent	3.6%	5.5%	18.2%	30.9%	29.1%	9.1%	1.8%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak Vol.	05:00	02:00	04:00	05:00	07:00	04:00	04:00		11:00						04:00			
PM Peak Vol.	1	1	2	3	5	2	1		1						9			
															12:00			
															1			
Total	275	79	214	399	319	129	28	5	7	0	0	0	0	0	0	1455		
Percent	18.9%	5.4%	14.7%	27.4%	21.9%	8.9%	1.9%	0.3%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

15th Percentile : 27 MPH

50th Percentile : 46 MPH

85th Percentile : 54 MPH

95th Percentile : 58 MPH

Stats	10 MPH Pace Speed :	46-55 MPH
	Number in Pace :	718
	Percent in Pace :	49.3%
	Number of Vehicles > 55 MPH :	169
	Percent of Vehicles > 55 MPH :	11.6%
	Mean Speed(Average) :	44 MPH

# Appendix C

## COLLISION DIAGRAM



# DETAILS OF ACCIDENT HISTORY

Page 1 of 1

PERIOD STUDIED:			# V E H I C L E S	S E V E R I T Y	L I G H T C O N D	R O A D C H A R	S U R F A C E	W E A T H E R	ROUTE NUMBER/STREET NAME: CR 540-CR 653										CASE No. _____			
FROM: 1/1/2015									LOCATION: cr 540-cr 653										FILE: CR540653			
TO: 10/31/2017									MUNICIPALITY: Mannington										COUNTY: Salem			
33 MONTHS									REFERENCE MARKERS / NODES: 9.2 - 3.3										BY: AZ			
No.	Date	Time	ACCIDENT DESCRIPTION												KEY #							
4	11/12/2015	18:21	1	N/R	5	1	1	1	40	61	Othr	DEER JUMPED IN FRONT OF VEHICLE RIGHT OF WAY										1
5	11/6/2015	5:47	1	N/R	2	1	1	1	40	61	Othr	DEER JUMPED IN FRONT OF VEHICLE RIGHT OF WAY										1
1	6/24/2017	15:24	2	FTL	1	1	1	1	17	7	Rang	Failure to maintain stop at stop sign										1
2	6/12/2017	18:27	2	INJ	1	1	1	1	17	7	Rang	Failure to maintain stop at stop sign										1
3	4/20/2016	8:56	2	INJ	1	1	1	1	17	7	Rang	Failure to maintain stop at stop sign										1
6	7/30/2015	17:12	3	INJ	1	1	1	1	17	7	Rang	Failure to maintain stop at stop sign										1

## Accident Codes

## CONTRIBUTING FACTORS

### TRAFFIC CONTROL

- 1. None
- 2. Traffic Signal
- 3. Stop Sign
- 4. Flashing Light
- 5. Yield Sign
- 6. Officer/Guard
- 7. No Passing Zone
- 8. RR Crossing Sign
- 9. RR Crossing Flashing Light
- 10. RR Crossing Gates
- 11. Stopped School Bus- Red Lights Flashing

- 11. Stopped School Bus- Red Lights Flashing
- 12. Construction Work Area
- 13. Maintenance Work Area
- 14. Utility Work Area
- 20. Other

### ROADWAY CHARACTER

- 1. Straight and Level
- 2. Straight and Grade
- 3. Straight and Hillcrest
- 4. Curve and level
- 5. Curve and Grade
- 6. Curve and Hillcrest

### ROADWAY SURFACE CONDITIONS

- 1. Dry
- 2. Wet
- 3. Muddy
- 4. Snow/Ice
- 5. Slush
- 0. Other

### LIGHT CONDITIONS

- 1. Daylight
- 2. Dawn
- 3. Dusk
- 4. Dark-Road Lighted
- 5. Dark-Road unlighted
- 0. Unknown

### WEATHER

- 1. Clear
- 2. Cloudy
- 3. Rain
- 4. Snow
- 5. Sleet/Hail/Freezing Rain
- 6. Fog/Smog/Smoke
- 0. Other

### CONTRIBUTING FACTORS

#### HUMAN

- 2. Alcohol Involved
- 3. Backing Unsafely
- 4. Driver Inattention
- 5. Driver Inexperience
- 6. Drugs (illegal)
- 7. Failure to Yield Right-of-Way
- 8. Fell Asleep
- 9. Following Too Closely
- 10. Illness

#### VEHICULAR

- 40. Other Human
- 41. Accelerator Defective
- 42. Brakes Defective
- 43. Headlights Defective
- 44. Other Lights Defective
- 45. Oversized Vehicle
- 46. Steering Failure
- 47. Tire Failure/Inadequate
- 48. Tow Hitch Defective
- 49. Windshield Inadequate
- 60. Other Vehicular
- 61. Animal's Action
- 62. Glare
- 63. Lane Marking Improper/Inadequate
- 64. Obstruction/Debris
- 65. Pavement Defective
- 66. Pavement Slippery
- 67. Shoulders Defective/Improper
- 68. Traffic Control Device Improper/Non-Working
- 69. View Obstructed/Limited
- 70. Other Environmental

#### ENVIRONMENTAL

- 11. Lost Consciousness
- 12. Passenger Distraction
- 13. Passing or Lane Usage Improper
- 14. Pedestrian's/Bicyclist's Error/Confusion
- 15. Physical Disability
- 16. Prescription Medication
- 17. Traffic Control Disregarded
- 18. Turning Improperly
- 19. Unsafe Speed
- 20. Unsafe Lane Changing
- 21. Fatigued/Drowsy

# ACCIDENT SUMMARY SHEET

ROUTE: CR 540-CR 653 LOCATION: cr 540-cr 653  
 MUNICIPALITY: Mannington COUNTY: Salem  
 TIME PERIOD COVERED: 1/1/2015 - 10/31/2017 REFERENCE MARKERS / NODES: 9.2 - 3.3  
 REMARKS: All Accidents DATE: 11/28/2017

TIME OF DAY	# ACC	%	DIRECTION	# ACC	%	DIRECTION	# ACC	
6 AM - 10 AM	1	16.7%	North	3	27.3%	Northeast	0	0.0%
10 AM - 4 PM	1	16.7%	South	3	27.3%	Northwest	0	0.0%
4 PM - 7 PM	3	50.0%	East	4	36.4%	Southeast	0	0.0%
7 PM - 12 AM	0	0.0%	West	1	9.1%	Southwest	0	0.0%
12 AM - 6 AM	1	16.7%				Unspecified	0	0.0%
Unspecified	0	0.0%						
<b>Total</b>	<b>6</b>		<b>Total</b>	<b>11</b>				
WEATHER	# ACC	%	ACCIDENT TYPE	# ACC	%	ACCIDENT TYPE	# ACC	
Clear	6	100.0%	Rear End	0	0.0%	Pedestrian	0	0.0%
Cloudy	0	0.0%	Overtake	0	0.0%	Bicycle	0	0.0%
Rain	0	0.0%	Right Angle	4	66.7%	Parked Vehicle	0	0.0%
Snow	0	0.0%	Left Turn	0	0.0%	Backing	0	0.0%
Sleet/Hail/Freezing Rain	0	0.0%	Right Turn	0	0.0%	Run Off The Road	0	0.0%
Fog/Smog/Smoke	0	0.0%	Fixed Object	0	0.0%	Driveway	0	0.0%
Unspecified	0	0.0%	Head On	0	0.0%	Other	2	33.3%
<b>Total</b>	<b>6</b>		<b>Total</b>	<b>11</b>		<b>Unspecified</b>	<b>0</b>	<b>0.0%</b>
SURFACE	# ACC	%	ACCIDENT SEVERITY	# ACC	%			
Dry	6	100.0%	Fatal	0	0.0%			
Wet	0	0.0%	Injury	4	66.7%			
Mud/Slush	0	0.0%	Property Damage	0	0.0%			
Snow/Ice	0	0.0%	Non-Reportable	2	33.3%			
Unspecified	0	0.0%	<b>Total</b>	<b>6</b>				
<b>Total</b>	<b>6</b>							
TIME OF YEAR	# ACC	%	TYPE OF VEHICLE	# ACC	%			
Winter (Dec-Feb)	0	0.0%	Passenger Cars	11	100.0%			
Spring (Mar-May)	1	16.7%	Commercial Vehicles	0	0.0%			
Summer (Jun-Aug)	3	50.0%	<b>Total</b>	<b>11</b>				
Fall (Sep-Nov)	2	33.3%						
<b>Total</b>	<b>6</b>							
DAY OF WEEK	# ACC	%	LIGHT CONDITION	# ACC	%			
Sunday	0	0.0%	Daylight	4	66.7%			
Monday	1	16.7%	Dawn/Dusk	1	16.7%			
Tuesday	0	0.0%	Night	1	16.7%			
Wednesday	1	16.7%	Unspecified	0	0.0%			
Thursday	2	33.3%	<b>Total</b>	<b>6</b>				
Friday	1	16.7%						
Saturday	1	16.7%						
<b>Total</b>	<b>6</b>							

SUMMARY OF ACCIDENT SEVERITY BY YEAR:	2015	2016	2017
Fatal Accidents	0	0	1
Injury Accidents	1	1	1
Property Damage Accidents	0	0	0
Non-Reportable Accidents	2	0	0
<b>Total Accidents</b>	<b>3</b>	<b>1</b>	<b>2</b>

## ACCIDENT RATE CALCULATIONS

---

Segment  
 Intersection

ROUTE: CR 540-CR 653  
LOCATION: cr 540-cr 653  
REFERENCE MARKERS / NODES: 9.2 - 3.3  
TIME PERIOD: 1/1/2015 - 10/31/2017

REMARKS: All Accidents

---

$$\text{ACCIDENT RATE} = \frac{(6 \text{ total accidents in 2.8 years}) * (1,000,000)}{(365 \text{ days/yr.}) * (2.8 \text{ years}) * (4000 \text{ veh./day}) * (0.3 \text{ miles})}$$
$$= \underline{\hspace{10cm}}$$

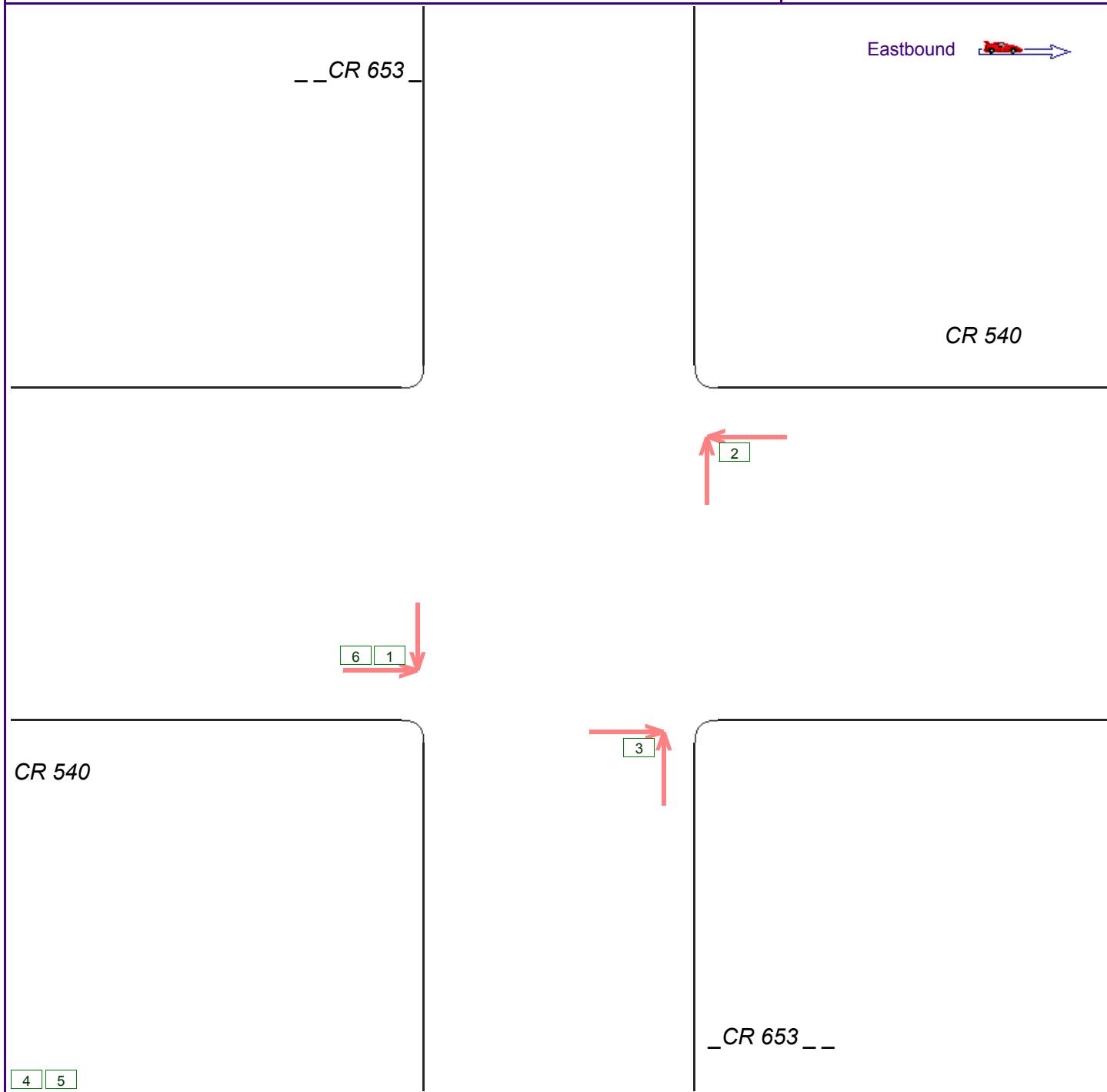
$$(\text{Statewide average rate}) = \underline{\hspace{10cm}} \text{ n/a}$$

---

# COLLISION DIAGRAM

Key Number =

MUNICIPALITY: <u>Mannington</u>	COUNTY: <u>Salem</u>	FILE: <u>CR540653</u>
INTERSECTION: <u>CR 540-CR 653</u>	CASE #:	BY: <u>AZ</u> DATE: <u>11/28/2017</u>
PERIOD: <u>2</u> YEARS <u>9</u> MONTHS	FROM <u>1/1/2015</u>	TO <u>10/31/2017</u>



SYMBOLS	MANNER OF COLLISION
→ MOVING VEHICLE	→ REAR END
M MOTORCYCLE	PARKED VEHICLE → HEAD ON
↔ BACKING VEHICLE	→ OVERTAKE
→ STOPPED VEHICLE	B → LEFT TURN
TRAFFIC SIGNAL	BICYCLE → RIGHT TURN
	FIXED OBJECT → RIGHT ANGLE
	Fatal → SIDE SWIPE

1. L O C A T I O N	CASE NO.: <input type="text"/>	<b>HIGHWAY SAFETY INVESTIGATION REPORT</b>			FOR OFFICIAL USE: DIVISION FILE _____ REVIEWED BY _____ SCHEDULED FOR B&A <input type="checkbox"/>
	TOWN <input checked="" type="checkbox"/> CITY <input type="checkbox"/> OF <u>Mannington</u> VILLAGE <input type="checkbox"/>				FROM OR AT REF. MARKER / NODE  9.2
	ROUTE NO. OR STREET NAME  <u>CR 540-CR 653</u>	STATE HIGHWAY NO.	TO REFERENCE MARKER / NODE  3.3		
AT INTERSECTION WITH  <u>CR 540-CR 653</u>		ROUTE NO. OR STREET NAME  <u>CR 540-CR 653</u>	STATE HIGHWAY NO.		
<b>2. REASON FOR INVESTIGATION</b>			<b>3. RECOMMENDATION</b>		
<input type="checkbox"/> (a) IDENTIFIED BY ACCIDENT SURVEILLANCE SYSTEM <input checked="" type="checkbox"/> (b) POLICE HAZARD REPORT <input type="checkbox"/> (c) RESPONSE TO COMPLAINT OR INJURY <input type="checkbox"/> (d) REGIONALLY INITIATED <input type="checkbox"/> (e) OTHER (Explain)			<input type="checkbox"/> (a) CAPITAL IMPROVEMENT (Initiate Proj. Devel. Study) <input checked="" type="checkbox"/> (b) TRAFFIC CONTROL IMPROVEMENT <input type="checkbox"/> (c) MAINTENANCE IMPROVEMENT <input type="checkbox"/> (d) OTHER <input type="checkbox"/> (e) NONE		
<b>4. DISCUSSION</b>					
(a) PROBLEMS IDENTIFIED Traffic Control Device does not highlight the importance to yield right-of-way in a rural setup.					
(b) PROPOSED SOLUTION See Safety Analysis and Recommendations.					
(c) ACTION TAKEN					
<b>5. ACCIDENT EXPERIENCE</b>					<b>6. BENEFIT/COST ANALYSIS</b>
Number of Months	PERIOD BEGINNING		NUMBER OF ACCIDENTS		
	MONTH	YEAR	Fatal Accidents	Injury Accidents	Property Damage+ N/R Accidents
12	1	2015	0	1	0 + 2
12	1	2016	0	1	0 + 0
10	1	2017	1	1	0 + 0
					Check box if Benefit/Cost Calculations are attached <input type="checkbox"/>
PRINCIPAL INVESTIGATOR <u>AZ</u>					TITLE <u>Traffic Engineer</u>
APPROVED BY					DATE: <u>11/28/2017</u>

# **Appendix D**

## **SPEED LIMIT ANALYSIS**



# USLIMITS2 Speed Zoning Report

## Project Name: Welchville-Alloway Road & Acton-Station Road

**Analyst:** SPB

**Date:** 11-27-2017

### Basic Project Information

Project Number: 1700F001  
Route Name: Welchville-Alloway Road  
State: New Jersey  
County: Salem County  
City: Mannington Township  
Route Type: Road Section in Undeveloped Area  
Route Status: Existing

### Crash Data Information

Crash Data Years: 3.00  
Crash AADT: 1130 veh/day  
Total Number of Crashes: 6  
Total Number of Injury Crashes: 3  
Section Crash Rate: 485 per 100 MVM  
Section Injury Crash Rate: 242 per 100 MVM  
Crash Rate Average for Similar Roads: 232  
Injury Rate Average for Similar Roads: 84

### Roadway Information

Section Length: 1 mile(s)  
Statutory Speed Limit: 50 mph  
Adverse Alignment: Yes  
Divided/Undivided: Undivided  
Number of Lanes: 2  
Roadside Hazard Rating: 2  
Transition Zone: No

### Traffic Information

85th Percentile Speed: 62 mph  
50th Percentile Speed: 54 mph  
AADT: 2166 veh/day

**Project Description:** Analysis at the intersection of Welchville-Alloway Road (CR 540) and Acton-Station Road (CR 653)

### Recommended Speed Limit:



**Note:** The final recommended speed limit is higher than the statutory speed limit of **50 mph** for this type of road. An engineering study such as the one carried out with USLIMITS is usually required to set a speed limit above the statutory limit.

**Note:** Sections with adverse alignments may need specific 'advisory speed warnings' which may be different from the general speed limit for the section. See [Procedures for Setting Advisory Speeds on Curves](#), Publication No. FHWA-SA-11-22, June 2011, for more guidance.

**Note:** The section crash rate of 485 per 100 MVM is more than 30 percent above the average for similar roads (232) but below the critical rate (626). The injury crash rate for the section of 242 per 100 MVM is more than 30 percent above the average for similar roads (84) but below the critical rate (338). A comprehensive crash study should be undertaken to identify engineering and traffic control deficiencies and appropriate corrective actions. The speed limit should only be reduced as a last measure after all other treatments have either been tried or ruled out.

**Note:** A section length of 1 miles is too short for speed zoning on public streets and roads for the recommended speed limit. You may consider lengthening the speed zone (if that is possible) or using the speed limits from adjacent sections (if they are appropriate for this section). If the 85th percentile speeds and other data you provided are representative of conditions for this short section, then the speed limit noted above should be considered. If the data were taken in a road section with adverse horizontal and vertical alignment, in a construction zone, or in a area with unique geometric and/or traffic control features, then the above noted speed limit may not be appropriate because this expert system is not designed to recommend speed limits for sharp horizontal curves, within the limits of construction zones, or in other special traffic situations.

# Appendix E

## TRAFFIC SIGNAL WARRANT ANALYSIS



<b>Warrants Summary</b>													
<b>Information</b>													
Analyst	AZ	Intersection			CR 540 and CR 653								
Agency/Co	Salem County	Jurisdiction			Alloway								
Date Performed	09/29/2017	Units			U.S. Customary								
Project ID	Traffic Signal Warrant Study	Time Period Analyzed			12 HR								
East/West Street	CR 540-Welchville Rd	North/South Street			CR 653-Acton Station Rd								
File Name	CR 540 AND CR 653.xhy	Major Street			East-West								
Project Description <i>Traffic Signal Warrant Study</i>													
<b>General</b>			<b>Roadway Network</b>										
Major Street Speed (mph)	60	<input checked="" type="checkbox"/>	Population < 10,000			Two Major Routes			<input checked="" type="checkbox"/>				
Nearest Signal (ft)	0	<input type="checkbox"/>	Coordinated Signal System			Weekend Count			<input type="checkbox"/>				
Crashes (per year)	5	<input checked="" type="checkbox"/>	Adequate Trials of Alternatives			5-yr Growth Factor			1				
<b>Geometry and Traffic</b>		EB			WB			NB			SB		
		LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of lanes, N	0	1	0	0	1	0	0	1	0	0	1	0	
Lane usage		T			T			T			T		
Vehicle Volume Averages (vph)	0	65	0	0	71	0	0	45	0	0	37	0	
Peds (ped/h) / Gaps (gaps/h)	--	0 / 0	--	--	0 / 0	--	--	0 / 0	--	--	0 / 0	--	
Delay (s/veh) / (veh-hr)	--	0 / 0	--	--	0 / 0	--	--	0 / 0	--	--	0 / 0	--	
<b>Warrant 1: Eight-Hour Vehicular Volume</b>													
1 A. Minimum Vehicular Volumes (Both major approaches --and-- higher minor approach) --or--													
1 B. Interruption of Continuous Traffic (Both major approaches --and-- higher minor approach) --or--													
1 (56%) Vehicular --and-- Interruption Volumes (Both major approaches --and-- higher minor approach)													
<b>Warrant 2: Four-Hour Vehicular Volume</b>													
2 A. Four-Hour Vehicular Volumes (Both major approaches --and-- higher minor approach)													
<b>Warrant 3: Peak Hour</b>													
3 A. Peak-Hour Conditions (Minor delay --and-- minor volume --and-- total volume ) --or--													
3 B. Peak- Hour Vehicular Volumes (Both major approaches --and-- higher minor approach)													
<b>Warrant 4: Pedestrian Volume</b>													
4 A. Four Hour Volumes --or--													
4 B. One-Hour Volumes													
<b>Warrant 5: School Crossing</b>													
5. Student Volumes --and--													
5. Gaps Same Period													
<b>Warrant 6: Coordinated Signal System</b>													
6. Degree of Platooning (Predominant direction or both directions)													
<b>Warrant 7: Crash Experience</b>													
7 A. Adequate trials of alternatives, observance and enforcement failed --and--													
7 B. Reported crashes susceptible to correction by signal (12-month period) --and--													

7 C. (56%) Volumes for Warrants 1A, 1B --or-- 4 are satisfied	<input type="checkbox"/>
<b><i>Warrant 8: Roadway Network</i></b>	<input type="checkbox"/>
8 A. Weekday Volume (Peak hour total --and-- projected warrants 1, 2 or 3) --or--	<input type="checkbox"/>
8 B. Weekend Volume (Five hours total)	<input type="checkbox"/>
<b><i>Warrant 9: Grade Crossing</i></b>	<input type="checkbox"/>
9 A. Grade Crossing within 140 ft --and--	<input type="checkbox"/>
9 B. Peak-Hour Vehicular Volumes	<input type="checkbox"/>

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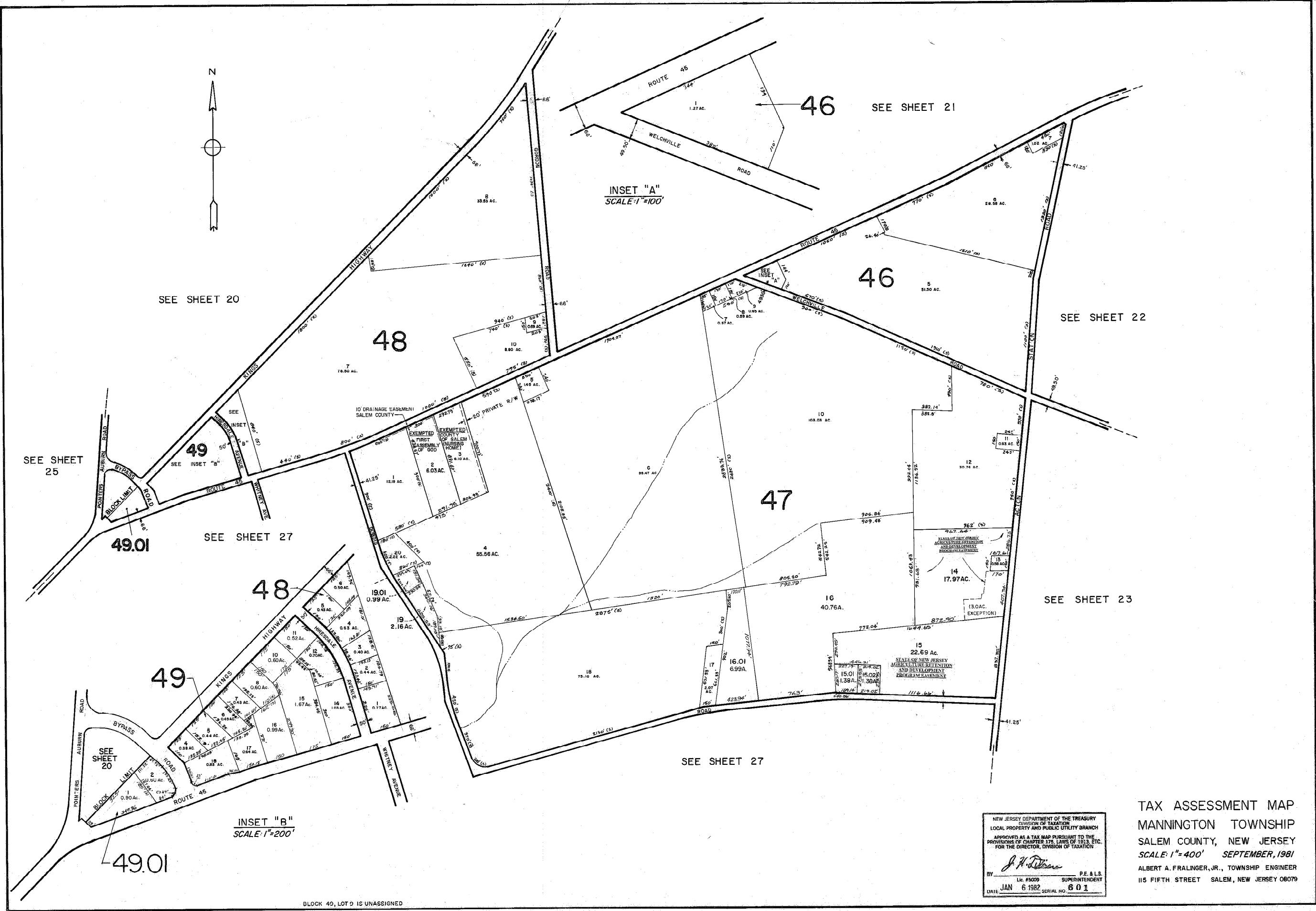
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Warrants Volume																		
Information																		
Analyst	AZ							Intersection	CR 540 and CR 653									
Agency/Co	Salem County							Jurisdiction	Alloway									
Date Performed	09/29/2017							Units	U.S. Customary									
Project ID	Traffic Signal Warrant Study							Time Period Analyzed	12 HR									
East/West Street	CR 540-Welchville Rd							North/South Street	CR 653-Acton Station Rd									
File Name	CR 540 AND CR 653.xhy							Major Street	East-West									
Project Description <i>Traffic Signal Warrant Study</i>																		
Warrant 1																		
Condition A—Minimum Vehicular Volume						Condition B—Interruption of Continuous Traffic												
Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)			Vehicles per hour on higher-volume minor-street approach (one direction only)			Number of lanes for moving traffic on each approach										
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%	100%	80%	70%	56%					
1	1	500	400	350	280	150	120	105	84	750	600	525	420					
2 or more	1	600	480	420	336	150	120	105	84	900	720	630	504					
2 or more	2 or more	600	480	420	336	200	160	140	112	900	720	630	504					
1	2 or more	500	400	350	280	200	160	140	112	750	600	525	420					
Warrant 2																		
Warrant 3																		
Volume Summary																		
Major Street Lanes 1			Minor Street Lanes 1			Speed		60	Population		<10000							
Hours	Major Volume	Minor Volume	Total Volume	1A (70%)	1A (56%)	1B (70%)	1B (56%)	2 (70%)	3A (70%)	3B (70%)								
07-08	139	51	215	No	No	No	No	No	No	No								
08-09	148	45	227	No	No	No	No	No	No	No								
09-10	127	50	200	No	No	No	No	No	No	No								
10-11	124	40	190	No	No	No	No	No	No	No								
11-12	146	38	222	No	No	No	No	No	No	No								
12-13	104	32	162	No	No	No	No	No	No	No								
13-14	116	34	183	No	No	No	No	No	No	No								
14-15	127	55	227	No	No	No	No	No	No	No								
15-16	171	56	268	No	No	No	No	No	No	No								
16-17	163	60	265	No	No	No	No	No	No	No								
17-18	159	73	285	No	No	No	No	No	No	No								
18-19	115	46	194	No	No	No	No	No	No	No								
Totals	1639	580	2638	0	0	0	0	0	0	0								

# Appendix F

## TAX MAP



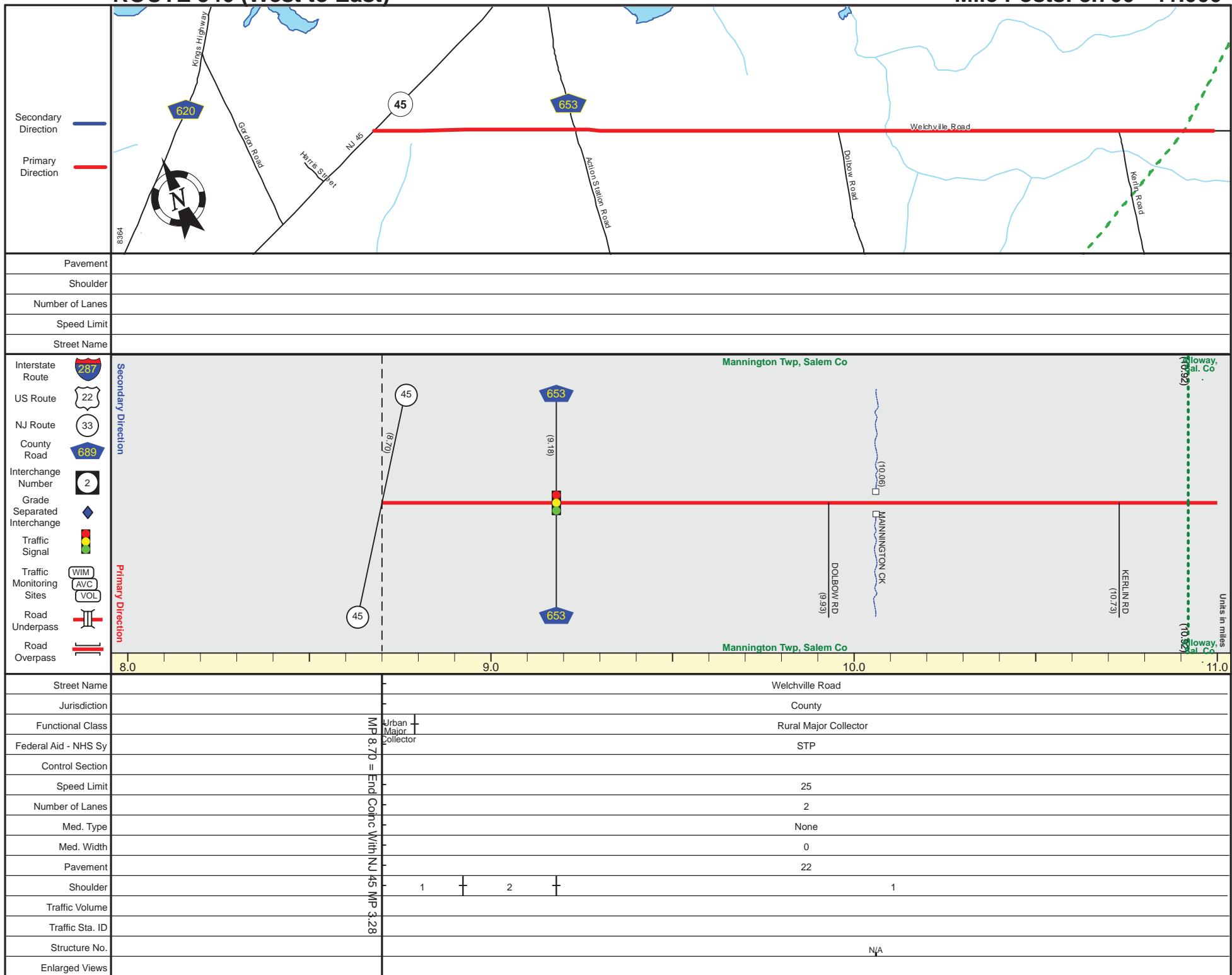
# **Appendix G**

## **NJDOT STRAIGHT LINE DIAGRAMS**



## ROUTE 540 (West to East)

Mile Posts: 8.700 - 11.000

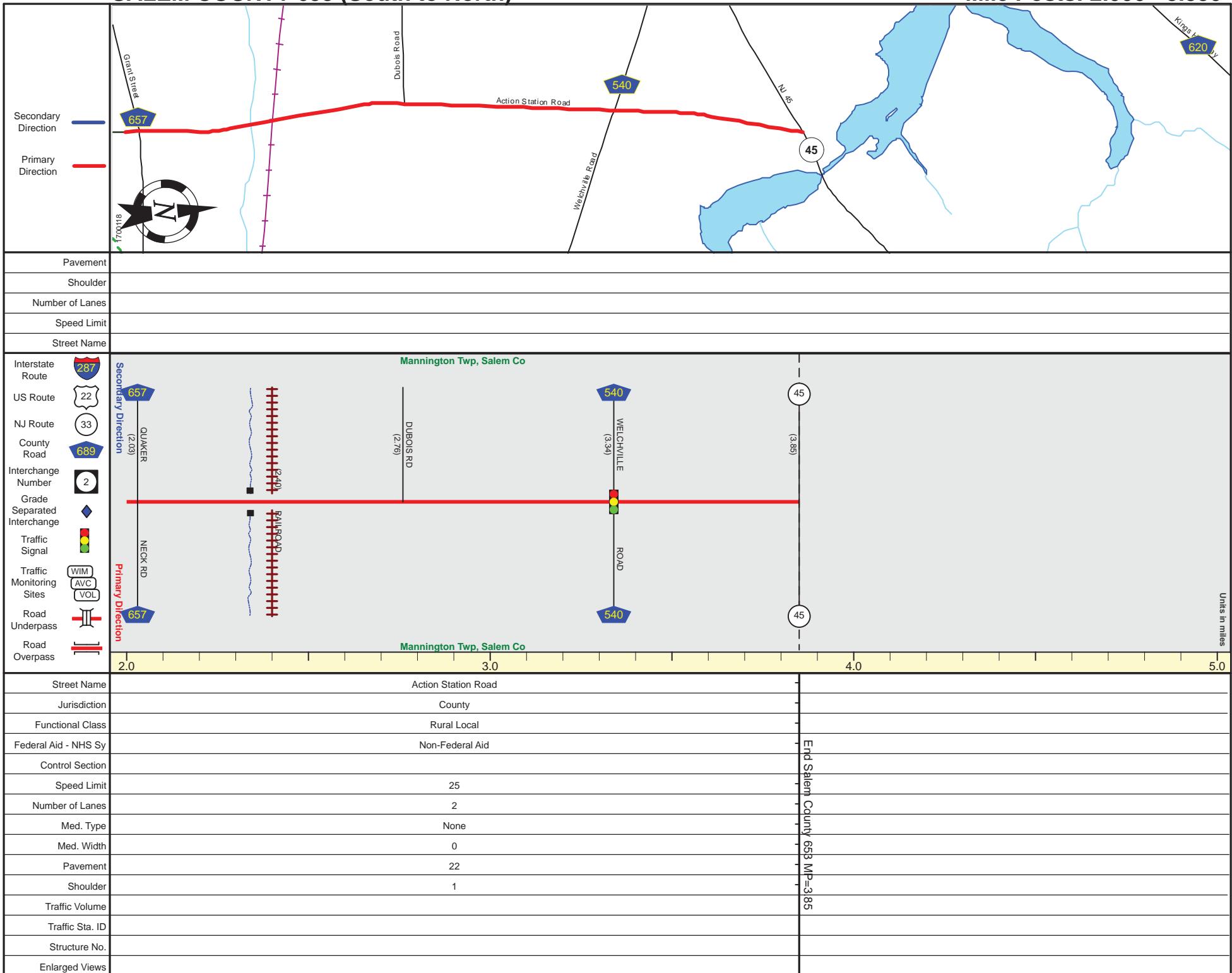


SRI = 00000540

Date last inventoried: June 2012

## SALEM COUNTY 653 (South to North)

Mile Posts: 2.000 - 3.850



SRI = 17000653

Date last inventoried: June 2011