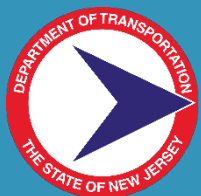




Road Safety Audit:

Newman Springs Road (CR 520),
Swimming River to Shrewsbury Avenue (CR 13)
Red Bank & Tinton Falls Boroughs, Monmouth County



November 2020

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Executive Summary

This document is the final report of the Road Safety Audit (RSA) conducted along CR 520 (Newman Springs Road) from Swimming River to CR 13 (Shrewsbury Avenue) in Red Bank and Tinton Falls Boroughs, Monmouth County. An RSA is an effective way of identifying crash-causing trends and appropriate countermeasures utilizing a nontraditional approach that promotes transportation safety while maintaining mobility.

The aforementioned roadway section was identified on NJTPA's Local Safety Program Network Screening list as high priority. According to the NJDOT crash database, there were 203 crashes from 2016 to 2018 along the study area section of Newman Springs Road excluding pedestrians/pedacyclists. Additionally, four (4) pedestrian crashes occurred over the 5-year period from 2014 to 2018. There were two pedacyclist crashes and two pedestrian crashes. Of note, a pedestrian fatality occurred in 2019 at the Newman Springs Road and Shrewsbury Avenue intersection.

Due to the COVID-19 pandemic, this RSA was conducted all online/virtual on Friday, October 9, 2020. Similar to a Road Safety Scan (RSS), roadway conditions were documented in advance via photographs and corridor videos for the Team to review. Representatives from NJDOT, FHWA, NJTPA, NJ Transit, Monmouth County, Tinton Falls, and Red Bank were in attendance.

The RSA site and crash history are described in Sections II and III of this report, respectively. Section II also identifies previous and on-going studies conducted by the agency representatives. Corridor-wide and site-specific issues and recommendations, organized by location, are discussed in Section V. These recommendations addressed pedestrian safety by investigating curb extensions at intersections, repairing sidewalks and ensuring ADA compliance. Additionally, many suggestions were made to upgrade traffic signals, improve, and simplify signage, and improve lighting.

The recommendations contained herein were developed collaboratively with the roadway owner and local stakeholders from the RSA Team (members listed in Appendix A). The study partners have expressed interest in implementing many of the recommendations as time and funds allow. Many of the maintenance items, which are typically low cost, can be addressed without additional engineering.

Please note this RSA report does not constitute an engineering report. The agency responsible for design and construction should consult a licensed professional engineer in preparing the design and construction documents, to implement any of the safety countermeasures mentioned in this report.

I. Introduction

A. Site Selection

This section of CR 520 (herein Newman Springs Road) was identified on NJTPA’s Local Safety Program (LSP) Network Screening list as a high priority location, as shown in the below rankings. Of note, these rankings are based on 2014-2016 vehicular and 2012-2016 pedestrian crash data.

Table 1 – NJTPA LSP Ranking (Corridor)

Location	Ped Corridor	Regional Corridor
Newman Springs Rd	#8 County (MP 15.24-16.24) ¹	#8 County (MP 15.24-16.24)

Table 2 – NJTPA LSP Ranking (Intersection)

Location	Intersections	Pedestrian Intersections
Leighton Ave (MP 16.07)	#88	-
Shrewsbury Ave (MP 16.21)	#92	#66 ²
Knight St (MP 15.72)	#114	-
Springdale Ave (MP 15.79)	-	#28

B. What is a Road Safety Audit?

A Road Safety Audit (RSA) is a formal safety performance examination of an existing or future road or intersection by a multi-disciplinary audit team. It qualitatively estimates and reports on existing and potential road safety issues, as well as identifies opportunities for improvements in safety for all road users. RSAs can be used on any size project, from minor maintenance to mega-projects, and can be conducted on facilities with a history of crashes, or during the design phase of a new roadway or planned upgrade. RSAs consider all road users, account for human factors and road user capabilities, are documented in a formal report, and require a formal response from the road owner.

The RSA program is conducted to generate improvement recommendations and countermeasures for roadway segments demonstrating a history of, or potential for, a high frequency of crashes, or an identifiable pattern of crash types. Recommendations range from low-cost, quick-turnaround safety improvements to more complex strategies. Implementation of improvement strategies identified through this process may be eligible for Local Federal Aid Safety Funds. Because the RSA process is adaptable to local needs and conditions, recommendations can be implemented incrementally as time and resources permit. The RSA process, one of FHWA’s proven safety countermeasures, is shown below.



¹ Based on 2016-2018 data, this segment now ranks #1 in the County

² Pedestrian fatality on March 6, 2019 would elevate this score

C. The RSA Event

This RSA was conducted all online/virtual due to the COVID-19 pandemic on Friday, October 9, 2020. Similar to a Road Safety Scan (RSS), roadway conditions were documented in advance via photographs and corridor videos for the Team to review. Representatives from NJDOT, FHWA, NJTPA, NJ Transit, Monmouth County, Tinton Falls and Red Bank were in attendance. A list of team members can be found in Appendix A.

II. Corridor Description and Analysis

A. Study Location

The study area consists of approximately 0.7 miles of CR 520 (Newman Springs Road). The adjacent land use is generally residential to the north except at CR 13 (Shrewsbury Avenue), which has commercial properties in each quadrant. To the south, land use is a mix of residential and neighborhood commercial. Newman Springs Road provides access to the Garden State Parkway and the Red Bank downtown area west and east of the study area, respectively. Access to Tinton Falls is available via Hance Avenue (CR 51).

B. Roadway and Intersection Characteristics

Newman Springs Road is a four-lane urban principal arterial with no shoulders and is posted at 40 mph. Between Swimming River and Knight Street it is divided, while from Knight Street to Shrewsbury Avenue it is undivided. There are two (2) signalized and 11 unsignalized intersections within the project limits.

C. Existing Bicycle/Pedestrian Accommodations

Sidewalk is provided along both sides and varies in width throughout the project area. Sidewalk and crosswalk conditions vary from newly installed to needing maintenance. Crosswalks, where present, are generally continental style. There are no bicycle lanes or other bicycling infrastructure identified along the corridor.

D. Traffic Volumes

Based on available data, the 2019 Annual Daily Traffic (ADT) along Newman Springs Road is approximately 31,000 vehicles per day. Speed data was also collected in 2019 with an 85th percentile speed ranging from 44-49 mph. A copy of the available data can be found in Appendix C.

E. Transit Service

NJ Transit bus service is provided along Newman Springs Road via routes 832 and 838. Stops are located at or near Hance Avenue (CR 51), Clifford Place, and Clinton Place.

F. Redevelopment

The area surrounding Newman Springs Road is generally residential except at Shrewsbury Avenue, which has commercial properties in each quadrant, primarily gas stations. An application to construct a convenience store within the existing gas station property in the northwest corner was submitted to the County in early 2020 but is not built as of August 2020 (see Appendix I). Of note, revisions are proposed to the existing driveways that may improve safety near the Shrewsbury Avenue intersection.

G. Community Profile

The American Community Survey (ACS) estimate, which updates the 2010 Census population and income characteristics, was used to identify minority and low-income populations surrounding the project limits. The latest ACS for this study area is a five-year estimate from 2014 through 2018. A summary of the demographics is listed below.

Table 3 – Study Area Demographics

Characteristic		Project Area	County Average
Poverty		5-25%	7%
Limited English Proficiency (LEP)		14%	6%
Race/Ethnicity	White	59%	75%
	Hispanic/Latino	25%	11%
	Asian American	2%	5%
	Black or African American	12%	7%
	Two or more races	1%	2%
	Other ³	0%	0.4%
Use Public Transportation		5%	8%
Walk/Bike to Work		4%	2%
Homes with No Vehicle Available		14%	7%

III. Crash Findings

The analysis used in the RSA was based on reportable crashes found in the NJDOT crash database resulting in a fatality, injury and/or property damage. Corridor-wide crash characteristics and overrepresentations were compared to the 2018 statewide average for the county road system as further detailed below. All crashes were plotted onto collision diagrams, which can be found in Appendix D and E.

A. Temporal Trends

According to the NJDOT crash database, 203 crashes occurred during the three-year period between January 1, 2016 and December 31, 2018 (excluding pedestrians/pedacyclists) along the study area.

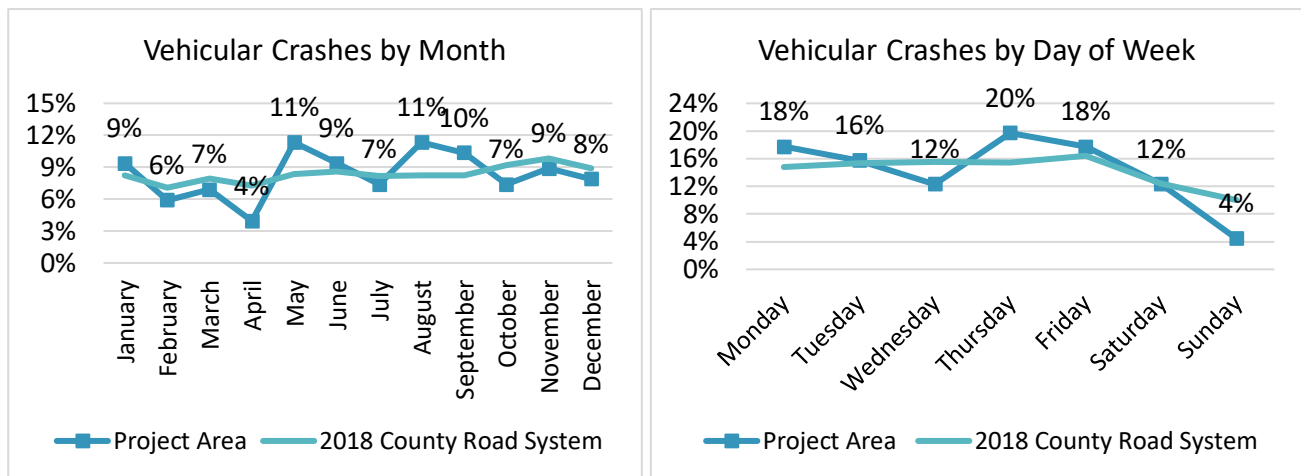


Figure 1 – Vehicular Crashes by Month and Day of Week

³ Percentages may not equal 100% due to rounding. Other includes individuals who identified themselves as 'American Indian/Alaska Native', 'Native Hawaiian or Pacific Islander', or 'Some Other Race Alone'.

Total crashes varied from the county average in May, August, and on Tuesdays. The fall increase may be attributed to the shortening days and therefore light conditions.

Additionally, 4 pedestrian crashes occurred over the 5-year period from 2014 to 2018; 2 were bicyclists and 2 were pedestrians. Collisions with pedestrians trended similar to county road averages.

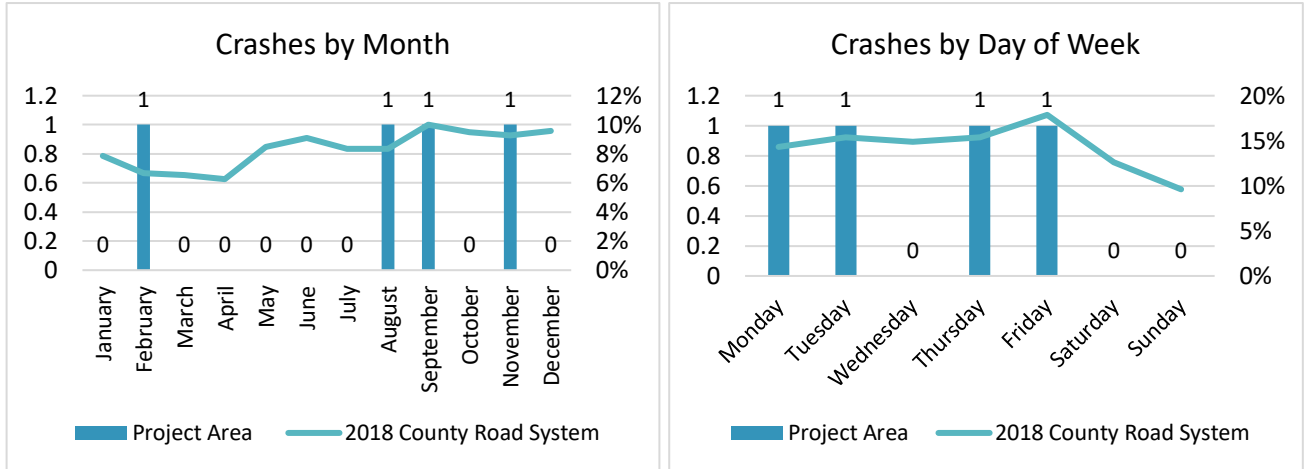


Figure 2 – Pedestrian/Bicyclist Crashes by Month and Day of Week

B. Collision Types

Overrepresented crash types over the 2016 to 2018 period (excluding pedestrians/pedacyclists) included rear end, right angle, backing, and sideswipe. The majority of pedestrian/bicycle crashes (excluded from Figure 3) included injury and occurred at signalized or between intersections.

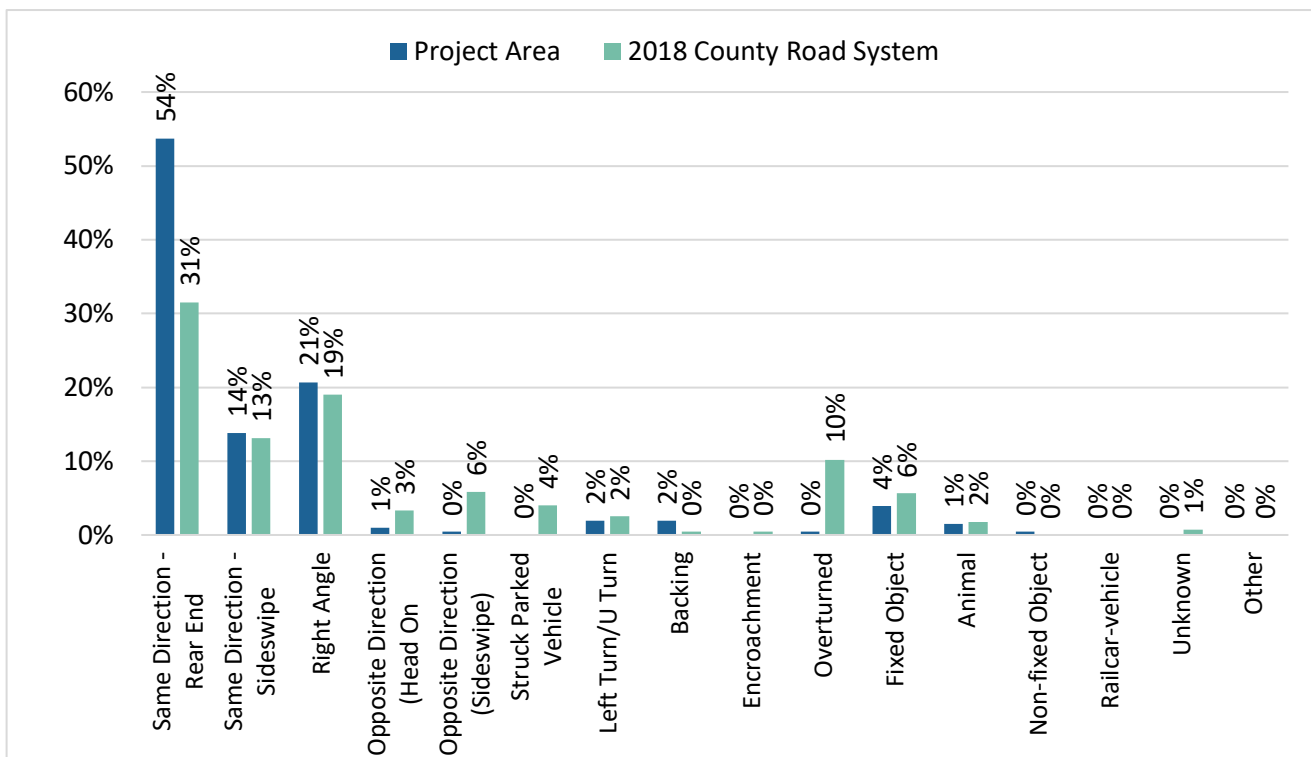


Figure 3 – Vehicular Crash Type Breakdown

C. Severity

Severity of vehicular crashes from 2016 to 2018 closely followed that of the county road system. Vehicle crashes were primarily reported property damage only, with less than 25% having injuries.

Pedestrian crashes resulting in minor and moderate injuries were significantly overrepresented compared to the county road system from 2014 to 2018. Of note, a pedestrian fatality occurred on March 6, 2019 at the intersection of Newman Springs Road and Shrewsbury Avenue.

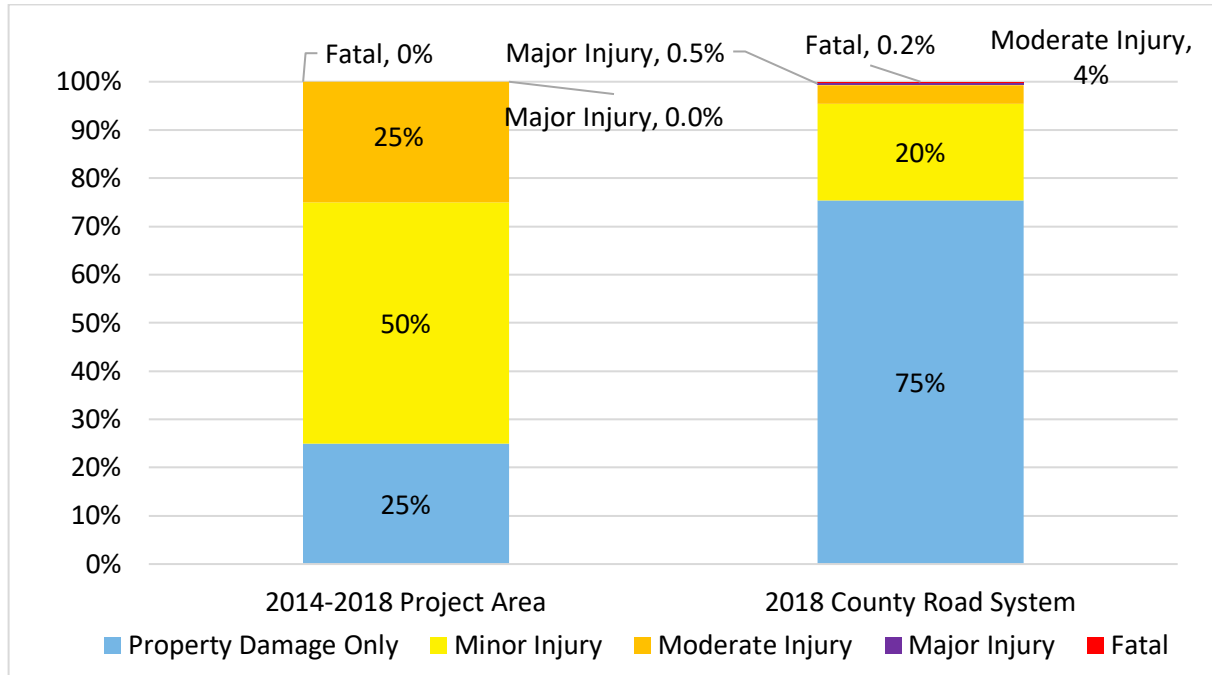


Figure 4 – Severity (Pedestrian/Bicycle Crashes)

D. Roadway Surface & Light Condition

Dry surface conditions accounted for approximately 82% of total crashes. In addition, 79% of crashes occurred during the day (Figures 5 and 6). All pedestrian and bicyclist crashes occurred on dry surface. In addition, 25% of pedestrian crashes occurred during dusk (Figures 7 and 8).

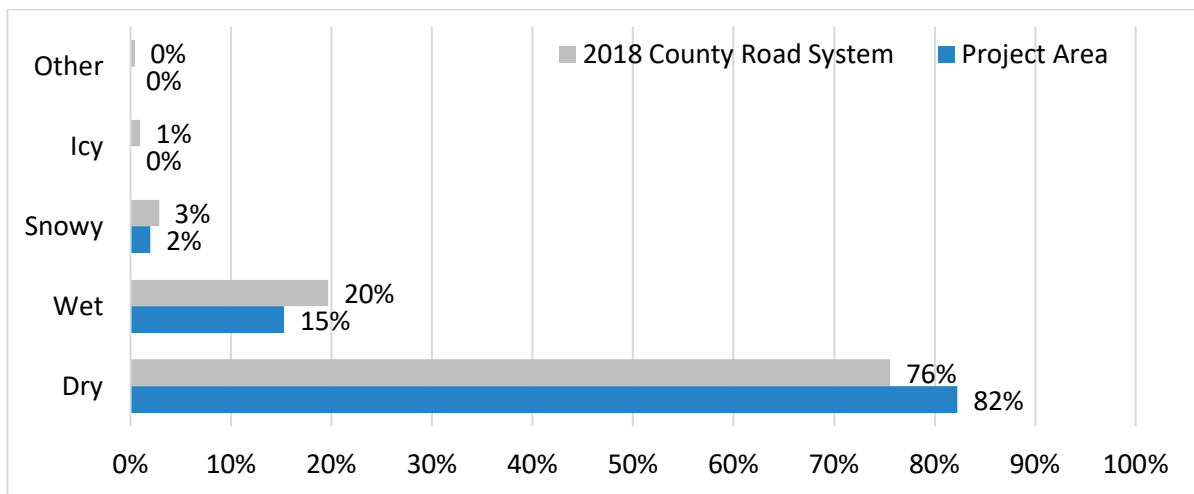


Figure 5 – Surface Conditions (Vehicular Crashes)

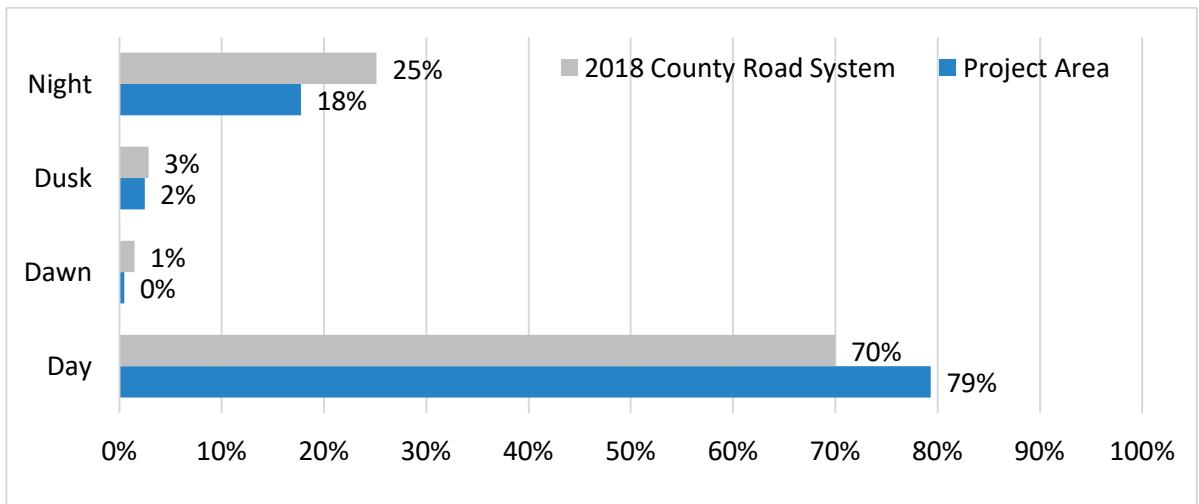


Figure 6 – Light Conditions (Vehicular Crashes)

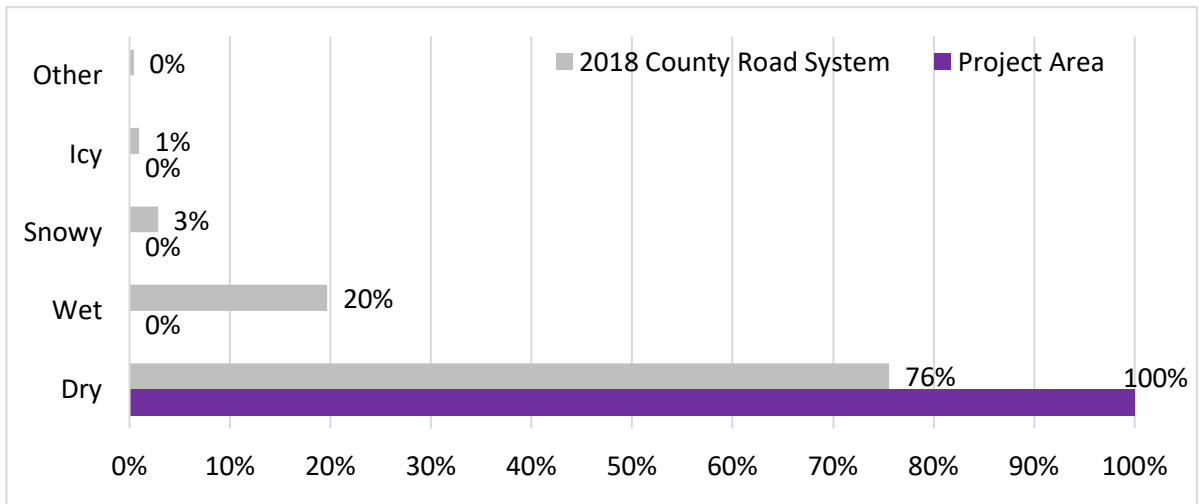


Figure 7 – Surface Conditions (Pedestrian/Bicycle Crashes)

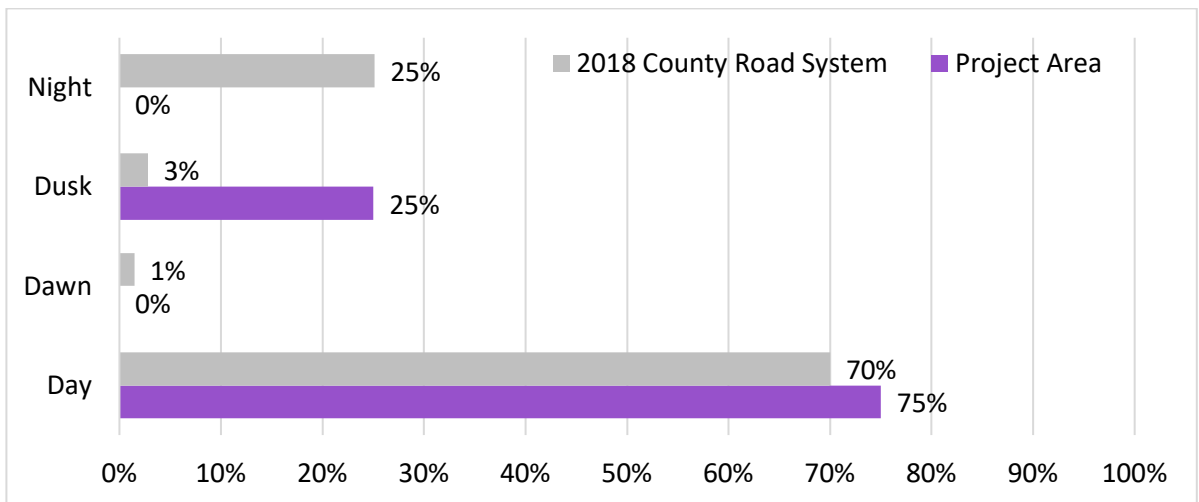


Figure 8 – Light Conditions (Pedestrian/Bicycle Crashes)

E. Location

Vehicular crashes occurring between intersections (65%) were slightly overrepresented compared to the county road system average (64%). In addition, 3 of the 4 pedestrian/bicyclist crashes occurred between intersections. Crash frequency, as shown in the following figures, shows the highest concentration of vehicular and pedestrian crashes. The histogram view is grouped by 0.1-mile segments and shows crashes that could be geolocated.

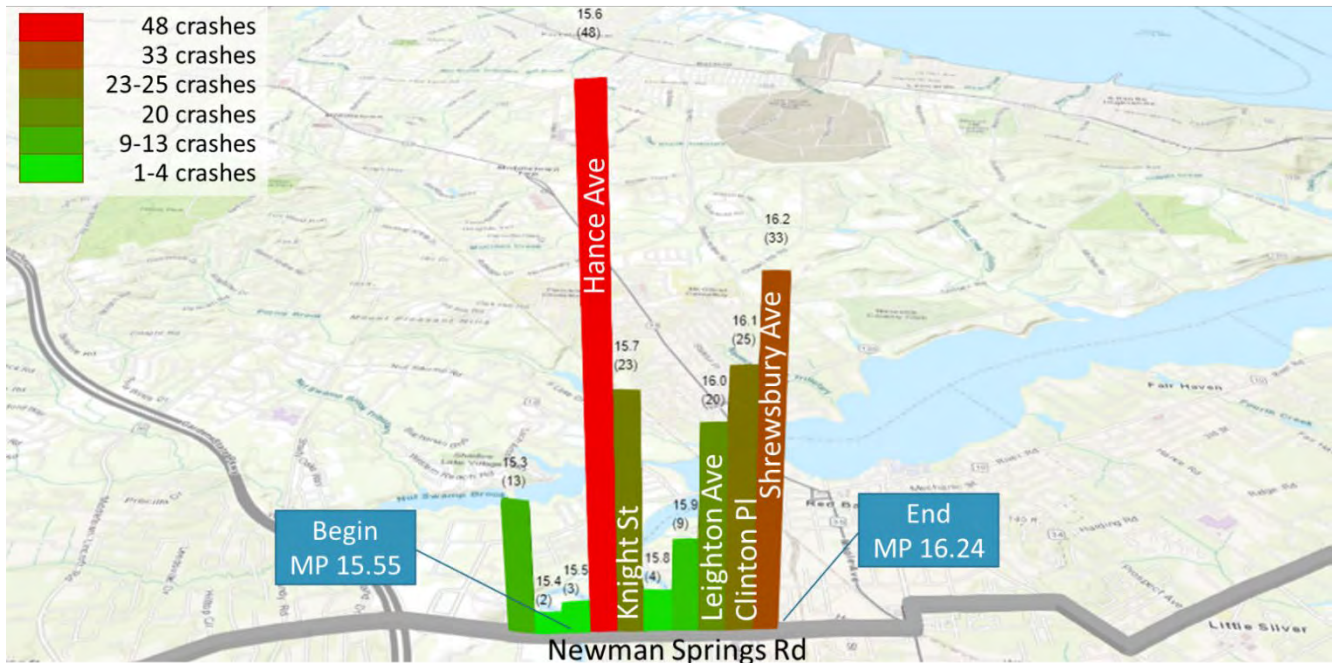


Figure 9 – Total Crash Locations (2016-2018)

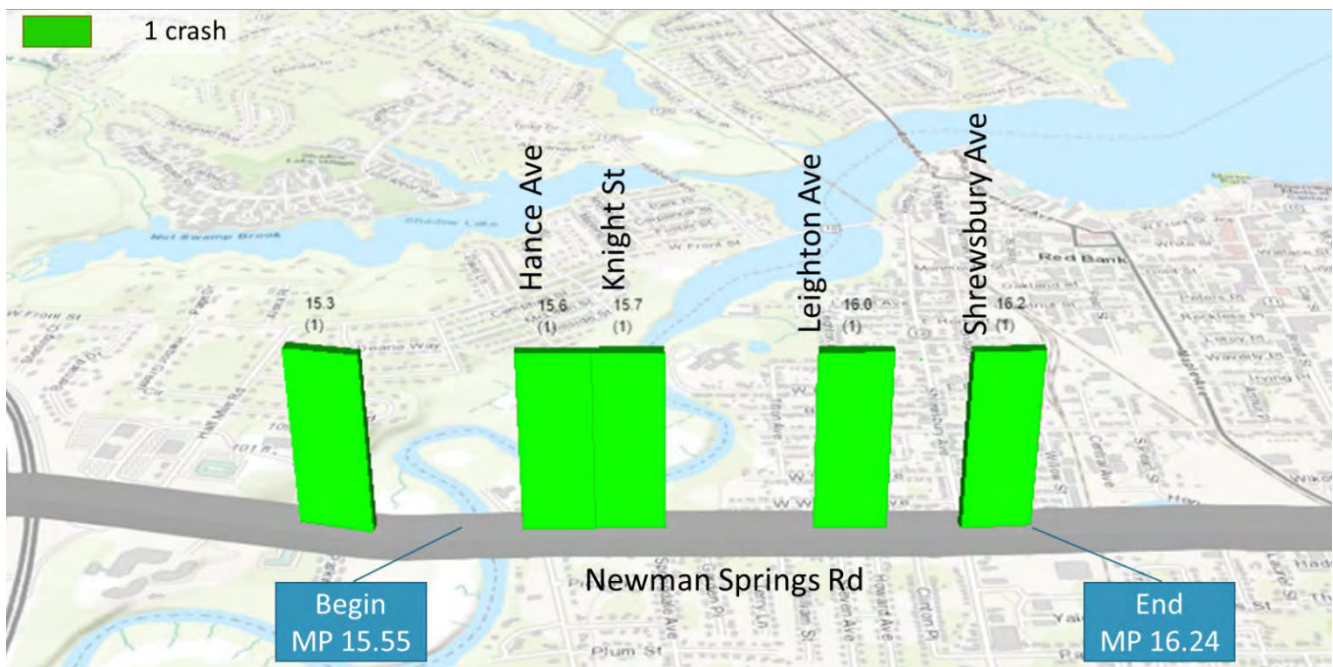


Figure 10 – Pedestrian Crash Locations (2014-2018)

IV. Identified Issues & Observations

This section summarizes the common corridor-wide safety issues identified during the RSA. They are categorized into operations (including visibility) and maintenance issues, and pedestrian and bicyclist issues. Additional site-specific issues and photographs can be found in Appendix F.

A. Pedestrian/Bicyclist



Sidewalk in poor condition with overgrown vegetation restricting the usable width.

Newman Springs Rd EB between Garden Pl and Carmen Pl



Missing ADA compliant curb ramps with utility pole obstructing walking path.

Newman Springs Rd EB at William St



Bicyclist using sidewalk due to lack of on-street facilities.

Newman Springs Rd WB west of Carmen Pl

B. Operations, Visibility, and Maintenance



Worn crosswalk striping.
Newman Springs Rd at Hance Ave



Debris covering curb ramp and inlet.
Newman Springs Rd at Springdale Ave



Pavement and sidewalk conditions vary.
Newman Springs Rd at Shrewsbury Ave

County and Borough representatives also noted that Clinton Place is frequently used as a cut-through to/from Paterson Avenue into Shrewsbury Borough to bypass the Newman Springs Road and Shrewsbury Avenue signalized intersection. This may be the source of the overrepresentation of right angle crashes at Newman Springs Road and Clinton Place. It was also noted that Knight Street is the only eastbound access into the residential area along Knight Street, Chapin Avenue and Munson Place, which may be the cause of many of the eastbound rear end crashes in this area.

V. Findings and Recommendations

This section summarizes the site-specific and corridor-wide safety issues, potential strategies, and recommendations to improve the same, safety benefit, time frame, cost, and jurisdiction. Ratings used in the recommendation tables are described as follows. N/A indicates safety benefit not determined.

Symbol	Meaning	Definition
✓	Low safety benefit potential	May reduce total crashes by 1-25% ⁴
✓✓	Low to moderate safety benefit potential	May reduce total crashes by 26-49% ⁴
✓✓✓	Moderate safety benefit potential	May reduce total crashes by 50-74% ⁴
✓✓✓✓	High safety benefit potential	May reduce total crashes by 75+% ⁴
\$	Low cost	Could be accomplished through maintenance
\$\$	Medium cost	May require some engineering or design and funding may be readily available
\$\$\$	High cost	Longer term; may require full engineering, ROW acquisition and new funding
☉	Short term	Could be accomplished within 1 year
⦿	Medium term	Could be accomplished in 1 to 3 years; may require some engineering
●	Long term	Could be accomplished in 3 years or more; may require full engineering

A. Recommendations

The following represents the specific findings and recommendations made by the RSA team. All recommendations and designs should be thoroughly evaluated with due diligence and designed as appropriate by the roadway owner and/or a professional engineer for conformance to all applicable codes, standards, and best practices.

Table 4 – Corridor-Wide Recommendations

No.	Recommendation	Safety Benefit	Cost	Time Frame	Jurisdiction
Operations					
1	Consider upgrading all ramps for ADA compliance	✓✓✓ ⁵	\$\$\$	●	County/ Boroughs
2	Consider corridor-wide signal upgrades (, install backplates with retroreflected border, evaluate clearance intervals, replace push buttons for ADA compliance, signal timings, lighting, etc.)	✓✓	\$\$\$	●	County
3	Consider conducting a lighting analysis for the corridor	✓✓✓	\$\$	⦿	County
4	Investigate widening the road to include two thru lanes in each direction with a two-way left turn lane	✓ ⁵	\$\$\$	●	County

⁴ Based on existing Crash Modification Factors (CMFs), the Highway Safety Manual (HSM), FHWA Proven Safety Countermeasures and current research, where applicable. All safety benefits are approximate.

⁵ CMF/quantitative data not available for this type of roadway or treatment. Therefore, perceived safety benefit of the same was estimated relative to other similar treatments.

No.	Recommendation	Safety Benefit	Cost	Time Frame	Jurisdiction
5	Investigate a road diet	✓✓	\$\$	●	County
6	Consider installing speed feedback signs	✓	\$	○	Boroughs
7	Investigate adding a multi-use path on the south side of Newman Springs Road	✓✓✓ ⁵	\$\$	●	County
8	Consider upgrading/adding wayfinding signs for the Garden State Parkway	✓ ⁵	\$	○	County
Bicycle/Pedestrian					
9	Inspect, repair and construct sidewalks in compliance with ADA as needed, including driveway aprons	✓✓✓	\$\$	●	County/ Boroughs
10	Examine inlets and install bicycle-safe grates	✓ ⁵	\$\$	○	County
11	Examine crosswalks status: check placement and alignment	✓✓	\$	○	County
Maintenance					
12	Inspect existing striping for wear and restripe accordingly; add RPMs where appropriate	✓✓	\$	○	County
13	Inspect and replace missing, faded, damaged or incorrect/outdated signage as needed (i.e. signs mounted below 7-ft, on non-breakaway posts or back-to-back signs that obscure shapes)	✓	\$	○	County
14	Inspect drainage facilities; ensure they are free of debris	✓ ⁵	\$	○	County
15	Inspect and trim foliage/vegetation on and along sidewalks	✓ ⁵	\$	○	County
Education					
16	Consider sidewalk, crosswalk, multimodal education campaign and code enforcement	✓ ⁵	\$\$	●	Boroughs/ County

The following site-specific recommendations are in addition to the corridor-wide improvements, except where noted otherwise.

Table 5 – Site-Specific Recommendations

No.	Recommendation	Safety Benefit	Cost	Time Frame	Jurisdiction
Hance Ave (CR 51) (including Munson PI)					
17	Consider creating offset intersection with Munson PI; add left turn lane for Newman Springs Rd EB to Munson PI	✓✓ ⁵	\$\$\$	●	County
18	Consider corridor-wide recommendation 1, 9 and 11 regarding crosswalks, sidewalk and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
19	Evaluate the need for adding crosswalk for Newman Springs Rd on the west side of the intersection	✓ ⁵	\$\$	●	County

⁵ CMF/quantitative data not available for this type of roadway or treatment. Therefore, perceived safety benefit of the same was estimated relative to other similar treatments.

No.	Recommendation	Safety Benefit	Cost	Time Frame	Jurisdiction
20	Consider evaluating lighting at the intersection	✓✓✓	\$\$	●	County
21	Consider corridor-wide recommendation 2 regarding signal upgrades	✓✓	\$\$\$	●	County
22	Explore a smart right turn for the channelized right	✓✓	\$\$	●	County
23	Consider adding a crosswalk across the channelized right turn lane	✓✓	\$	●	County
Knight St					
24	Investigate restricting access from driveway in NW corner	✓	\$\$	●	County
25	Consider installing Do Not Block the Box striping	✓ ⁵	\$	●	County
26	Investigate adding back to back left turn lanes with Hance Ave	✓ ⁵	\$\$	●	County
27	Explore making this intersection right-in right-out (only in conjunction with recommendation #17)	✓✓	\$\$	●	County
Springdale Ave					
28	Consider corridor-wide recommendation 1, 9 and 11 regarding crosswalks, sidewalk and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
29	Consider corridor-wide recommendation 14 regarding drainage facilities	✓ ⁵	\$	●	County
30	Investigate adding pedestrian signal (HAWK or RRFB)	✓✓✓	\$\$\$	●	County/ Boroughs
Garden Pl					
31	Consider corridor-wide recommendation 1, 9 and 11 regarding crosswalks, sidewalk and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
32	Consider corridor-wide recommendation 14 regarding drainage facilities	✓ ⁵	\$	●	County
Carmen Pl					
33	Consider corridor-wide recommendation 1, 9 and 11 regarding crosswalks, sidewalk and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
34	Consider corridor-wide recommendation 14 regarding drainage facilities	✓ ⁵	\$	●	County
William St					
35	Consider corridor-wide recommendation 1, 9 and 11 regarding crosswalks, sidewalk and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
36	Consider corridor-wide recommendation 14 regarding drainage facilities	✓ ⁵	\$	●	County
Clifford Pl					
37	Consider corridor-wide recommendation 1, 9 and 11 regarding sidewalk, crosswalks, and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
38	Consider corridor-wide recommendation 14 regarding drainage facilities	✓ ⁵	\$	●	County
39	Investigate adding pedestrian signal (HAWK or RRFB) due to the bus stops at this location	✓✓✓	\$\$\$	●	County/ Boroughs

No.	Recommendation	Safety Benefit	Cost	Time Frame	Jurisdiction
Steven Ave					
40	Consider corridor-wide recommendation 1, 9 and 11 regarding sidewalk, crosswalks, and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
41	Consider corridor-wide recommendation 14 regarding drainage facilities	✓ ⁵	\$	○	County
42	Investigate adding pedestrian signal (HAWK or RRFB)	✓✓✓	\$\$\$	●	County/ Boroughs
Leighton Ave					
43	Consider corridor-wide recommendation 1, 9 and 11 regarding sidewalk, crosswalks, and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
44	Investigate adding pedestrian signal (HAWK or RRFB)	✓✓✓	\$\$\$	○	County/ Boroughs
45	Consider restricting left turns from Newman Springs Rd to deter through traffic (<i>addresses concerns noted in Red Bank's 1995 Master Plan</i>)	✓✓✓	\$	○	County/City
Howard Ave					
46	Consider corridor-wide recommendation 11 and 12 regarding crosswalk and pavement markings	✓✓	\$	○	County
Clinton Pl					
47	Consider corridor-wide recommendation 1, 9 and 11 regarding sidewalk, crosswalks, and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
48	Consider corridor-wide recommendation 14 regarding drainage facilities	✓ ⁵	\$	○	County
49	Consider making Clinton Pl right-in right-out	✓✓	\$\$	○	County/ Boroughs
50	Consider converting to one-way street	✓✓	\$\$	○	Boroughs
51	Consider adding speed humps or mumble strips to deter through traffic	✓✓	\$\$	○	Boroughs
Shrewsbury Ave (CR 13)					
52	Consider corridor-wide recommendation 1, 9 and 11 regarding sidewalk, crosswalks, and ADA compliance	✓✓✓ ⁵	\$\$\$	●	County
53	Evaluate lighting at the intersection (no current lighting facilities)	✓✓✓	\$\$	○	County
54	Consider corridor-wide recommendation 2 regarding signal upgrades, including signal timings	✓✓	\$\$\$	●	County
55	Investigate restricting access to each of the gas stations at the corners of the intersection	✓	\$\$	○	County
56	Evaluate left turn lane storage for all approaches	✓ ⁵	\$\$	○	County

B. Road Owner Response

An important part of the RSA process is the road owner's response: an acknowledgment of the audit's findings and recommendations, and their planned follow-up. In responding to the RSA's findings, the

⁵ CMF/quantitative data not available for this type of roadway or treatment. Therefore, perceived safety benefit of the same was estimated relative to other similar treatments.

road owner must bear in mind all the competing objectives involved when implementing the recommendations, and foremost among them is available resources. Because the audit process generated a long and wide-ranging list of improvements, the road owner is expected to implement these recommended improvements as time and funds allow in coordination with other projects and priorities. Monmouth County delivered their response following the finalization of the findings and recommendations table, a copy of which can be found in Appendix K.

C. Recommendation Visualizations

Examples of some of the site-specific and corridor-wide safety recommendations identified in Tables 4 and 5 are shown below and are based on current practices and standards. Descriptions and images of each treatment are from the *2017 NJ Complete Street Design Guide (CSDG)* and NACTO's *Urban Street Design Guide (NACTO-US)* and *Urban Bikeway Design Guide (NACTO-UB)*, including sources contained therein. These examples are meant to be generic and for informational purposes only.

1. Pedestrian Facilities

Crossing islands, or pedestrian refuge islands, reduce the exposure time of pedestrians to vehicular traffic. They enable pedestrians to make a crossing in two stages — crossing one direction of vehicular travel lanes, pausing at the island, and then completing the crossing. They are recommended where a pedestrian must cross three lanes of traffic in one or both directions but may be implemented on smaller cross sections where space permits.

The pedestrian hybrid beacon (PHB) is a traffic control device designed to help pedestrians safely cross busy or higher-speed roadways at midblock crossings and uncontrolled intersections. The beacon head consists of two red lenses above a single yellow lens. The lenses remain "dark" until a pedestrian desiring to cross the street pushes the call button to activate the beacon. The signal then initiates a yellow to red lighting sequence consisting of steady and flashing lights that directs motorists to slow and come to a stop. The pedestrian signal then flashes a WALK display to the pedestrian. Once the pedestrian has safely crossed, the hybrid beacon again goes dark.

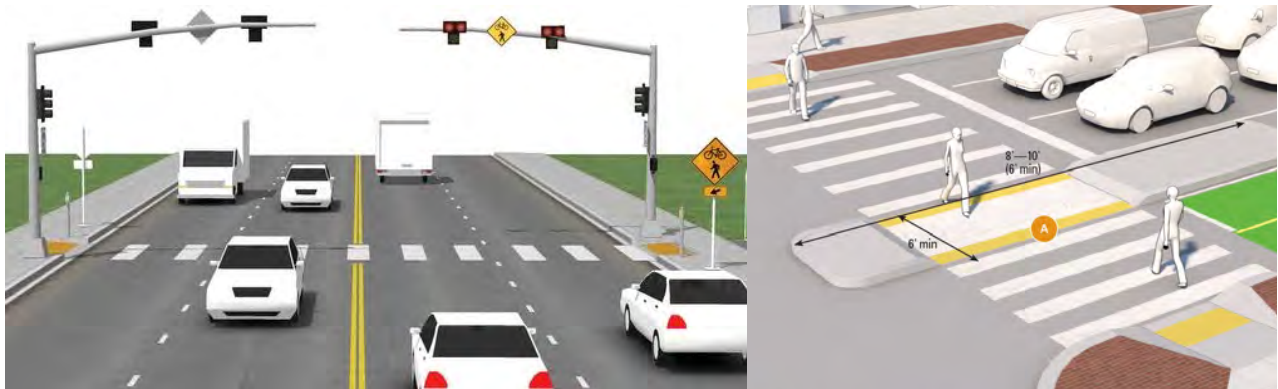


Figure 11 – Pedestrian Facility Examples

Left: PHB/HAWK System (Source: FHWA). Right: Crossing Island (Source: CSDG)

ADA standards specify a minimum 5-foot clear path width to accommodate two wheelchairs passing each other. In addition to providing a more accessible facility, this minimum width also creates a more comfortable environment for pedestrians to walk side-by-side and pass each other. Sidewalk width should support the surrounding street context, land uses, and current and future pedestrian demand. The design of driveways should provide a continuous and level pedestrian

zone across the vehicular path, encouraging drivers to stop for pedestrians on the sidewalk. Driveways should not be designed where the sidewalk is interrupted by the driveway.

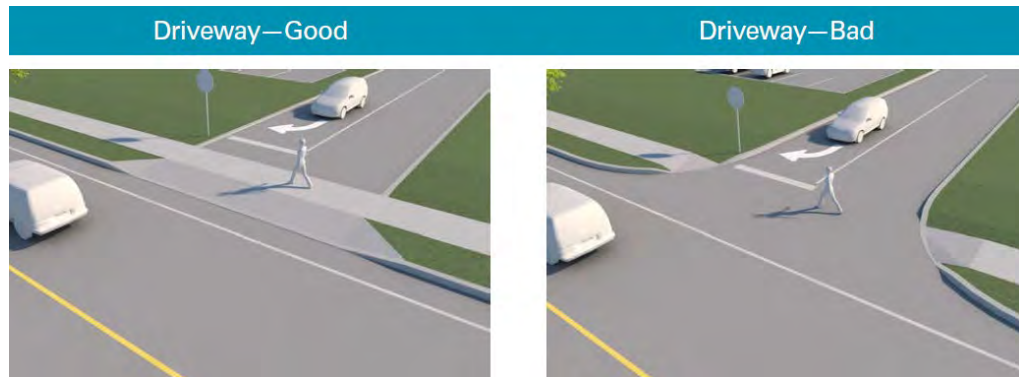


Figure 12 – Sidewalk and Driveways (Source: CSDG)

2. Bicycle Facilities

Bicycle lanes provide an exclusive space for bicyclists using pavement markings and signage. These lanes enable bicyclists to ride at their preferred speed, free from interference from motorists. Where it is not feasible or appropriate to provide dedicated bicycle facilities, shared-lane markings (e.g. “sharrows”) may be used to indicate a shared environment for bicycles and vehicles. Bicycle lanes and shared-lane markings should be extended through intersections and major driveways to enhance continuity, guide bicyclists through the intersection, and improve driver awareness of bicycle activity and movement.



Figure 13 – Bicycle Facility Examples

*Left: Curbside bicycle lane (Source: NATCO: UBG). Right: Sharrow Markings (Source: [Eric Gilliland/Flickr](#))
Bottom: Shared-use Path (Source: CSDG)*

Shared-use paths are bikeways that are distinctly separate from the roadway. Located outside of the cartway, they are separated physically from motorized traffic by a buffer. Shared-use paths are typically designed to accommodate two-way travel for all non-motorized users and are paved or concrete. They can help provide low-stress bicycle accommodations in a variety of circumstances: a shortcut through residential neighborhoods, a commuting route from residential to commercial centers, a recreation route in a park or greenway, or as a side path along a roadway in lieu of (or in addition to) an on-road bicycle facility. Shared-use paths should be built as a system of off-road transportation routes that complements and enhances the on-road bicycle network.

3. Roadway Reconfiguration

This treatment allows reallocation of existing street space (i.e. roadway cross section) to accommodate multi-modal users. Lane configuration and width for travel, turning movements, parking, and bicycle lanes can be adjusted to optimize use for vehicles, pedestrians, bicyclists, and transit. The most common roadway reconfiguration, known as a road diet, involves converting an existing four-lane undivided segment into a three-lane segment with two through lanes and a center two-way left turn lane (TWLTL).

The main goal of a road diet is to improve safety by eliminating conflict points between turning, crossing and through traffic and reducing the speed differential which reduces crash severity when crashes do occur. Road diets also benefit pedestrian and bicyclist safety by reducing the number of lanes to cross at an intersection and reallocating space from the travel lane to non-motorized use, such as bicycle lanes. FHWA's *Road Diet Informational Guide* advises that roadways with an ADT of 20,000 vehicles per day (vpd) or less may be good candidates for a road diet. If the ADT of the roadway is near the upper limit, further analysis should be conducted, such as review of peak hour volumes by direction, turning volumes at intersections and driveways, and signal spacing. As noted in Section II.D, the ADT along Newman Springs Road is approximately 31,000 vpd.

VI. Conclusions

The Newman Springs Road (CR 520) RSA was conducted to identify safety issues and corresponding countermeasures that compromise multimodal use of the roadway. The team identified a long list of issues from the field visit, as well as many practical short-, mid-, and long-term improvements during the post-audit.

The recommendations documented in this report are designed to improve safety for all road users. Some of the strategies identified can be implemented through routine maintenance; all will be constrained by available time and budgetary priorities. The audit process and the resulting final document highlight the safety issues and present the needed improvements by location organized for systematic implementation by the roadway owner.

It is important to note that when it comes to improving safety, engineering strategies alone only go so far, especially in areas undergoing redevelopment. Education, with support from a targeted enforcement campaign, is an effective approach for addressing driver and pedestrian behaviors that lead to crashes. Employing a multipronged approach is an effective course of action to advance the goal of improved safety on the corridor.

APPENDIX A

RSA TEAM



Audit Team



Name	Agency
Vince Cardone	Monmouth County Engineering
Denise Booker	Monmouth County Engineering
Daria Jakimowska	Monmouth County Engineering
Inkyung Englehart	Monmouth County Engineering
Joe LoPresti	Tinton Falls Police Department
Errico Vescio	Red Bank Police Department
Thomas Neff	Tinton Falls Engineering (T&M Associates)
Ziad Andrew Shehady	Red Bank Administrator
Elise Bremer-Nei	NJDOT – Bureau of Safety, Bicycle and Pedestrian Programs
Grace Faughnan	NJDOT – Bureau of Safety, Bicycle and Pedestrian Programs
Jeevanjot Singh	NJDOT – Bureau of Safety, Bicycle and Pedestrian Programs
Joseph Rapp	NJDOT – Bureau of Safety, Bicycle and Pedestrian Programs
Sasha Frimpong	NJTPA
Aimee Jefferson	NJTPA
Patricia Newton	NJTPA
Bernie Boerchers	Greenman-Pedersen, Inc. (NJDOT Consultant)
Kruti Barot	Greenman-Pedersen, Inc.
Andrew Halloran	Greenman-Pedersen, Inc.
Aidan Sheehan	Greenman-Pedersen, Inc.
Julia Steponanko	Greenman-Pedersen, Inc.

APPENDIX B

AREA MAP



- LEGEND**
-  SIGNALIZED INTERSECTION
 -  PROJECT CORRIDOR

NJDOT HSIP – ROAD SAFETY AUDIT CR 520 (NEWMAN SPRINGS ROAD)	
RED BANK BOROUGH MONMOUTH COUNTY	
PROJECT LOCATION	
	 Engineering Design Planning Construction Management
N.T.S.	

APPENDIX C

TRAFFIC DATA

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Road) At Knight Street. File Name : (2) CR 520 (Newman Springs Road) & Knight Street
Municipality: Red Bank Borough Site Code : 52081519
Counted By: Patrick T Barrett Start Date : 8/15/2019
Page No : 1

Groups Printed- Passenger Cars - Single Unit Trucks - Heavy Vehicles

Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	1	4	0	5	9	183	2	194	0	0	181	5	0	186	385
07:15 AM	2	5	0	7	1	223	0	224	0	0	209	3	0	212	443
07:30 AM	2	9	0	11	1	204	0	205	0	0	247	3	0	250	466
07:45 AM	3	6	1	10	3	227	0	230	0	0	297	1	0	298	538
Total	8	24	1	33	14	837	2	853	0	0	934	12	0	946	1832
08:00 AM	1	3	0	4	11	242	0	253	0	0	288	4	0	292	549
08:15 AM	1	6	0	7	5	260	1	266	0	0	296	3	0	299	572
08:30 AM	4	3	1	8	4	211	1	216	0	0	323	1	0	324	548
08:45 AM	3	7	0	10	3	233	0	236	0	0	359	1	0	360	606
Total	9	19	1	29	23	946	2	971	0	0	1266	9	0	1275	2275
*** BREAK ***															
11:00 AM	0	6	1	7	7	206	1	214	0	0	235	1	0	236	457
11:15 AM	3	5	1	9	5	235	0	240	0	0	223	4	0	227	476
11:30 AM	3	0	0	3	0	234	0	234	0	0	217	3	0	220	457
11:45 AM	1	5	0	6	3	261	0	264	0	0	280	1	0	281	551
Total	7	16	2	25	15	936	1	952	0	0	955	9	0	964	1941
12:00 PM	2	3	0	5	2	260	1	263	0	0	294	4	0	298	566
12:15 PM	1	5	0	6	5	200	1	206	0	0	268	4	0	272	484
12:30 PM	2	3	0	5	2	257	1	260	0	0	274	5	0	279	544
12:45 PM	2	3	0	5	3	206	0	209	0	0	225	4	0	229	443
Total	7	14	0	21	12	923	3	938	0	0	1061	17	0	1078	2037
01:00 PM	2	3	0	5	2	244	0	246	0	0	266	2	0	268	519
01:15 PM	3	1	0	4	5	234	0	239	0	0	247	2	0	249	492
01:30 PM	1	9	0	10	4	254	0	258	0	0	233	2	0	235	503
01:45 PM	1	3	1	5	6	232	0	238	0	0	259	3	0	262	505
Total	7	16	1	24	17	964	0	981	0	0	1005	9	0	1014	2019
*** BREAK ***															
03:00 PM	2	10	0	12	5	304	0	309	0	0	248	4	0	252	573
03:15 PM	1	4	0	5	2	309	0	311	0	0	292	4	0	296	612
03:30 PM	4	5	0	9	5	273	0	278	0	0	276	5	0	281	568
03:45 PM	1	4	0	5	10	285	0	295	0	0	233	2	0	235	535
Total	8	23	0	31	22	1171	0	1193	0	0	1049	15	0	1064	2288
04:00 PM	6	4	0	10	4	295	0	299	0	0	205	3	0	208	517
04:15 PM	0	8	0	8	6	299	0	305	0	0	221	1	0	222	535
04:30 PM	5	5	0	10	4	280	0	284	0	0	211	3	0	214	508
04:45 PM	4	5	1	10	3	293	0	296	0	0	247	0	0	247	553
Total	15	22	1	38	17	1167	0	1184	0	0	884	7	0	891	2113
05:00 PM	4	4	1	9	3	330	0	333	0	0	251	5	0	256	598
05:15 PM	3	5	0	8	1	341	0	342	0	0	291	3	0	294	644
05:30 PM	0	4	0	4	6	323	1	330	0	0	303	2	0	305	639
05:45 PM	0	4	0	4	7	296	0	303	0	0	282	3	0	285	592
Total	7	17	1	25	17	1290	1	1308	0	0	1127	13	0	1140	2473
Grand Total	68	151	7	226	137	8234	9	8380	0	0	8281	91	0	8372	16978
Apprch %	30.1	66.8	3.1		1.6	98.3	0.1		0		98.9	1.1	0		
Total %	0.4	0.9	0	1.3	0.8	48.5	0.1	49.4	0	0	48.8	0.5	0	49.3	
Passenger Cars	64	146	7	217	134	7959	9	8102	0	0	8034	82	0	8116	16435
% Passenger Cars	94.1	96.7	100	96	97.8	96.7	100	96.7	0	0	97	90.1	0	96.9	96.8

8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

CR 520 (Newman Springs Road) At Knight Street. File Name : (2) CR 520 (Newman Springs Road) & Knight Street
Municipality: Red Bank Borough Site Code : 52081519
Counted By: Patrick T Barrett Start Date : 8/15/2019
Page No : 1

Groups Printed- Passenger Cars

Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	1	4	0	5	9	178	2	189	0	0	173	5	0	178	372
07:15 AM	0	5	0	5	1	218	0	219	0	0	200	3	0	203	427
07:30 AM	2	9	0	11	1	197	0	198	0	0	235	3	0	238	447
07:45 AM	3	6	1	10	3	218	0	221	0	0	280	1	0	281	512
Total	6	24	1	31	14	811	2	827	0	0	888	12	0	900	1758
08:00 AM	1	2	0	3	11	232	0	243	0	0	281	3	0	284	530
08:15 AM	1	6	0	7	5	248	1	254	0	0	288	3	0	291	552
08:30 AM	4	3	1	8	4	205	1	210	0	0	315	1	0	316	534
08:45 AM	3	7	0	10	3	218	0	221	0	0	349	0	0	349	580
Total	9	18	1	28	23	903	2	928	0	0	1233	7	0	1240	2196
*** BREAK ***															
11:00 AM	0	6	1	7	7	199	1	207	0	0	222	1	0	223	437
11:15 AM	3	5	1	9	3	227	0	230	0	0	215	3	0	218	457
11:30 AM	3	0	0	3	0	224	0	224	0	0	212	3	0	215	442
11:45 AM	1	5	0	6	3	246	0	249	0	0	269	1	0	270	525
Total	7	16	2	25	13	896	1	910	0	0	918	8	0	926	1861
12:00 PM	2	3	0	5	2	249	1	252	0	0	286	2	0	288	545
12:15 PM	1	5	0	6	5	192	1	198	0	0	258	4	0	262	466
12:30 PM	2	3	0	5	2	246	1	249	0	0	270	5	0	275	529
12:45 PM	1	2	0	3	2	194	0	196	0	0	218	4	0	222	421
Total	6	13	0	19	11	881	3	895	0	0	1032	15	0	1047	1961
01:00 PM	2	3	0	5	2	237	0	239	0	0	264	2	0	266	510
01:15 PM	3	1	0	4	5	226	0	231	0	0	240	1	0	241	476
01:30 PM	1	9	0	10	4	242	0	246	0	0	226	1	0	227	483
01:45 PM	1	2	1	4	6	224	0	230	0	0	254	3	0	257	491
Total	7	15	1	23	17	929	0	946	0	0	984	7	0	991	1960
*** BREAK ***															
03:00 PM	2	10	0	12	5	292	0	297	0	0	235	4	0	239	548
03:15 PM	1	4	0	5	2	300	0	302	0	0	289	4	0	293	600
03:30 PM	4	4	0	8	5	268	0	273	0	0	265	4	0	269	550
03:45 PM	0	4	0	4	10	270	0	280	0	0	227	2	0	229	513
Total	7	22	0	29	22	1130	0	1152	0	0	1016	14	0	1030	2211
04:00 PM	6	4	0	10	4	292	0	296	0	0	200	3	0	203	509
04:15 PM	0	8	0	8	6	290	0	296	0	0	217	1	0	218	522
04:30 PM	5	5	0	10	4	276	0	280	0	0	202	3	0	205	495
04:45 PM	4	5	1	10	3	287	0	290	0	0	238	0	0	238	538
Total	15	22	1	38	17	1145	0	1162	0	0	857	7	0	864	2064
05:00 PM	4	4	1	9	3	324	0	327	0	0	248	5	0	253	589
05:15 PM	3	4	0	7	1	332	0	333	0	0	287	2	0	289	629
05:30 PM	0	4	0	4	6	316	1	323	0	0	295	2	0	297	624
05:45 PM	0	4	0	4	7	292	0	299	0	0	276	3	0	279	582
Total	7	16	1	24	17	1264	1	1282	0	0	1106	12	0	1118	2424
Grand Total	64	146	7	217	134	7959	9	8102	0	0	8034	82	0	8116	16435
Apprch %	29.5	67.3	3.2		1.7	98.2	0.1		0	0	99	1	0		
Total %	0.4	0.9	0	1.3	0.8	48.4	0.1	49.3	0	0	48.9	0.5	0	49.4	

**8 Hour Manual Intersection Movement Count
 Monmouth County Traffic Safety Engineering
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Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	0	0	0	0	0	1	0	1	0	0	6	0	0	6	7
07:15 AM	2	0	0	2	0	3	0	3	0	0	5	0	0	5	10
07:30 AM	0	0	0	0	0	5	0	5	0	0	8	0	0	8	13
07:45 AM	0	0	0	0	0	8	0	8	0	0	11	0	0	11	19
Total	2	0	0	2	0	17	0	17	0	0	30	0	0	30	49
08:00 AM	0	1	0	1	0	10	0	10	0	0	5	1	0	6	17
08:15 AM	0	0	0	0	0	7	0	7	0	0	6	0	0	6	13
08:30 AM	0	0	0	0	0	3	0	3	0	0	4	0	0	4	7
08:45 AM	0	0	0	0	0	8	0	8	0	0	7	1	0	8	16
Total	0	1	0	1	0	28	0	28	0	0	22	2	0	24	53

*** BREAK ***

11:00 AM	0	0	0	0	0	4	0	4	0	0	3	0	0	3	7
11:15 AM	0	0	0	0	2	3	0	5	0	0	2	1	0	3	8
11:30 AM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
11:45 AM	0	0	0	0	0	4	0	4	0	0	3	0	0	3	7
Total	0	0	0	0	2	15	0	17	0	0	10	1	0	11	28
12:00 PM	0	0	0	0	0	7	0	7	0	0	5	2	0	7	14
12:15 PM	0	0	0	0	0	3	0	3	0	0	5	0	0	5	8
12:30 PM	0	0	0	0	0	7	0	7	0	0	2	0	0	2	9
12:45 PM	1	0	0	1	1	4	0	5	0	0	2	0	0	2	8
Total	1	0	0	1	1	21	0	22	0	0	14	2	0	16	39
01:00 PM	0	0	0	0	0	5	0	5	0	0	1	0	0	1	6
01:15 PM	0	0	0	0	0	3	0	3	0	0	3	1	0	4	7
01:30 PM	0	0	0	0	0	7	0	7	0	0	5	1	0	6	13
01:45 PM	0	1	0	1	0	6	0	6	0	0	1	0	0	1	8
Total	0	1	0	1	0	21	0	21	0	0	10	2	0	12	34

*** BREAK ***

03:00 PM	0	0	0	0	0	6	0	6	0	0	2	0	0	2	8
03:15 PM	0	0	0	0	0	6	0	6	0	0	0	0	0	0	6
03:30 PM	0	1	0	1	0	2	0	2	0	0	10	1	0	11	14
03:45 PM	1	0	0	1	0	7	0	7	0	0	3	0	0	3	11
Total	1	1	0	2	0	21	0	21	0	0	15	1	0	16	39
04:00 PM	0	0	0	0	0	2	0	2	0	0	5	0	0	5	7
04:15 PM	0	0	0	0	0	2	0	2	0	0	2	0	0	2	4
04:30 PM	0	0	0	0	0	2	0	2	0	0	4	0	0	4	6
04:45 PM	0	0	0	0	0	1	0	1	0	0	3	0	0	3	4
Total	0	0	0	0	0	7	0	7	0	0	14	0	0	14	21
05:00 PM	0	0	0	0	0	5	0	5	0	0	3	0	0	3	8
05:15 PM	0	1	0	1	0	7	0	7	0	0	2	1	0	3	11
05:30 PM	0	0	0	0	0	5	0	5	0	0	5	0	0	5	10
05:45 PM	0	0	0	0	0	1	0	1	0	0	1	0	0	1	2
Total	0	1	0	1	0	18	0	18	0	0	11	1	0	12	31
Grand Total	4	4	0	8	3	148	0	151	0	0	126	9	0	135	294
Apprch %	50	50	0		2	98	0		0	0	93.3	6.7	0		
Total %	1.4	1.4	0	2.7	1	50.3	0	51.4	0	0	42.9	3.1	0	45.9	

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 Counted By: Patrick T Barrett Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
07:15 AM	0	0	0	0	0	2	0	2	0	0	4	0	0	4	6
07:30 AM	0	0	0	0	0	2	0	2	0	0	4	0	0	4	6
07:45 AM	0	0	0	0	0	1	0	1	0	0	6	0	0	6	7
Total	0	0	0	0	0	9	0	9	0	0	16	0	0	16	25
08:00 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
08:15 AM	0	0	0	0	0	5	0	5	0	0	2	0	0	2	7
08:30 AM	0	0	0	0	0	3	0	3	0	0	4	0	0	4	7
08:45 AM	0	0	0	0	0	7	0	7	0	0	3	0	0	3	10
Total	0	0	0	0	0	15	0	15	0	0	11	0	0	11	26
*** BREAK ***															
11:00 AM	0	0	0	0	0	3	0	3	0	0	10	0	0	10	13
11:15 AM	0	0	0	0	0	5	0	5	0	0	6	0	0	6	11
11:30 AM	0	0	0	0	0	6	0	6	0	0	3	0	0	3	9
11:45 AM	0	0	0	0	0	11	0	11	0	0	8	0	0	8	19
Total	0	0	0	0	0	25	0	25	0	0	27	0	0	27	52
12:00 PM	0	0	0	0	0	4	0	4	0	0	3	0	0	3	7
12:15 PM	0	0	0	0	0	5	0	5	0	0	5	0	0	5	10
12:30 PM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
12:45 PM	0	1	0	1	0	8	0	8	0	0	5	0	0	5	14
Total	0	1	0	1	0	21	0	21	0	0	15	0	0	15	37
01:00 PM	0	0	0	0	0	2	0	2	0	0	1	0	0	1	3
01:15 PM	0	0	0	0	0	5	0	5	0	0	4	0	0	4	9
01:30 PM	0	0	0	0	0	5	0	5	0	0	2	0	0	2	7
01:45 PM	0	0	0	0	0	2	0	2	0	0	4	0	0	4	6
Total	0	0	0	0	0	14	0	14	0	0	11	0	0	11	25
*** BREAK ***															
03:00 PM	0	0	0	0	0	6	0	6	0	0	11	0	0	11	17
03:15 PM	0	0	0	0	0	3	0	3	0	0	3	0	0	3	6
03:30 PM	0	0	0	0	0	3	0	3	0	0	1	0	0	1	4
03:45 PM	0	0	0	0	0	8	0	8	0	0	3	0	0	3	11
Total	0	0	0	0	0	20	0	20	0	0	18	0	0	18	38
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	7	0	7	0	0	2	0	0	2	9
04:30 PM	0	0	0	0	0	2	0	2	0	0	5	0	0	5	7
04:45 PM	0	0	0	0	0	5	0	5	0	0	6	0	0	6	11
Total	0	0	0	0	0	15	0	15	0	0	13	0	0	13	28
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	2	0	2	0	0	2	0	0	2	4
05:30 PM	0	0	0	0	0	2	0	2	0	0	3	0	0	3	5
05:45 PM	0	0	0	0	0	3	0	3	0	0	5	0	0	5	8
Total	0	0	0	0	0	8	0	8	0	0	10	0	0	10	18
Grand Total	0	1	0	1	0	127	0	127	0	0	121	0	0	121	249
Apprch %	0	100	0		0	100	0		0		100	0	0		
Total %	0	0.4	0	0.4	0	51	0	51	0	0	48.6	0	0	48.6	

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Rd) File Name : (2) CR 520 (Newman Springs Rd) & CR 51 (Hance Ave)
CR51 (Hance Ave) & Munson PISite Code : 52081319
Municipality:Red Bank Borough Start Date : 8/13/2019
Counted By:Patrick T Barrett Page No : 1

Groups Printed- Passenger Cars - Single Unit Trucks - Heavy Vehicles

Start Time Factor	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West				Int. Total
	Right	Peds	App.Total	Right	Thru	Left	Peds	App.Total	Right	Thru	Left	Peds	App.Total	Right	Thru	Peds	App.Total	
07:00 AM	5	0	5	0	196	11	0	207	21	3	107	0	131	67	167	0	234	577
07:15 AM	3	0	3	1	171	13	0	185	20	1	78	0	99	92	184	0	276	563
07:30 AM	3	0	3	1	169	17	0	187	27	1	105	0	133	97	192	0	289	612
07:45 AM	4	0	4	1	187	17	0	205	41	2	103	0	146	140	216	0	356	711
Total	15	0	15	3	723	58	0	784	109	7	393	0	509	396	759	0	1155	2463
08:00 AM	3	0	3	0	210	17	0	227	30	0	111	0	141	136	221	0	357	728
08:15 AM	1	0	1	1	186	18	1	206	29	0	115	1	145	147	266	0	413	765
08:30 AM	2	0	2	0	221	13	0	234	27	3	117	0	147	137	284	0	421	804
08:45 AM	4	0	4	1	207	15	0	223	41	3	116	0	160	163	327	0	490	877
Total	10	0	10	2	824	63	1	890	127	6	459	1	593	583	1098	0	1681	3174
*** BREAK ***																		
11:00 AM	4	0	4	2	186	20	0	208	17	1	88	0	106	75	169	0	244	562
11:15 AM	0	0	0	3	187	23	0	213	23	3	78	0	104	68	185	0	253	570
11:30 AM	6	0	6	0	190	23	0	213	30	1	79	0	110	53	156	0	209	538
11:45 AM	3	0	3	1	163	16	0	180	28	1	90	0	119	81	213	0	294	596
Total	13	0	13	6	726	82	0	814	98	6	335	0	439	277	723	0	1000	2266
12:00 PM	1	0	1	2	181	20	0	203	29	0	85	0	114	84	185	0	269	587
12:15 PM	1	0	1	1	192	28	0	221	27	0	107	0	134	80	220	0	300	656
12:30 PM	4	0	4	0	198	15	0	213	24	0	100	0	124	66	197	0	263	604
12:45 PM	2	0	2	0	193	25	0	218	34	0	91	0	125	100	232	0	332	677
Total	8	0	8	3	764	88	0	855	114	0	383	0	497	330	834	0	1164	2524
01:00 PM	3	1	4	1	175	19	0	195	23	1	85	0	109	83	233	0	316	624
01:15 PM	1	0	1	2	203	16	0	221	18	1	86	0	105	73	181	0	254	581
01:30 PM	3	0	3	0	201	12	1	214	12	1	84	1	98	93	169	0	262	577
01:45 PM	4	0	4	1	176	21	0	198	14	0	79	0	93	79	192	0	271	566
Total	11	1	12	4	755	68	1	828	67	3	334	1	405	328	775	0	1103	2348
*** BREAK ***																		
03:00 PM	10	0	10	0	211	28	0	239	23	6	113	0	142	81	220	0	301	692
03:15 PM	5	0	5	3	212	10	0	225	26	1	100	0	127	74	197	0	271	628
03:30 PM	2	0	2	0	221	30	0	251	39	0	94	0	133	86	241	0	327	713
03:45 PM	1	0	1	0	227	17	0	244	27	3	111	0	141	90	229	0	319	705
Total	18	0	18	3	871	85	0	959	115	10	418	0	543	331	887	0	1218	2738
04:00 PM	6	0	6	1	299	29	0	329	15	1	116	0	132	86	241	0	327	794
04:15 PM	4	0	4	1	234	19	0	254	14	1	115	0	130	81	204	0	285	673
04:30 PM	4	0	4	1	228	28	0	257	19	0	120	0	139	103	233	0	336	736
04:45 PM	2	0	2	1	205	32	0	238	29	2	140	0	171	102	244	0	346	757
Total	16	0	16	4	966	108	0	1078	77	4	491	0	572	372	922	0	1294	2960
05:00 PM	2	0	2	0	247	32	0	279	10	2	130	0	142	126	261	0	387	810
05:15 PM	4	0	4	0	258	28	0	286	27	0	132	0	159	113	238	0	351	800
05:30 PM	1	0	1	1	195	29	0	225	17	0	127	0	144	94	258	0	352	722
05:45 PM	2	0	2	2	176	17	0	195	22	0	116	0	138	110	271	0	381	716
Total	9	0	9	3	876	106	0	985	76	2	505	0	583	443	1028	0	1471	3048
Grand Total	100	1	101	28	6505	658	2	7193	783	38	3318	2	4141	3060	7026	0	10086	21521
Apprch %	99	1		0.4	90.4	9.1	0		18.9	0.9	80.1	0		30.3	69.7	0		
Total %	0.5	0	0.5	0.1	30.2	3.1	0	33.4	3.6	0.2	15.4	0	19.2	14.2	32.6	0	46.9	
Passenger Cars	89	1	90	26	6310	615	2	6953	730	37	3254	2	4023	2991	6842	0	9833	20899
% Passenger Cars	89	100	89.1	92.9	97	93.5	100	96.7	93.2	97.4	98.1	100	97.2	97.7	97.4	0	97.5	97.1

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Rd) File Name : (2) CR 520 (Newman Springs Rd) & CR 51 (Hance Ave)
CR51 (Hance Ave) & Munson PISite Code : 52081319
Municipality:Red Bank Borough Start Date : 8/13/2019
Counted By:Patrick T Barrett Page No : 1

Groups Printed- Passenger Cars

Start Time Factor	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West				Int. Total
	Right 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Peds 1.0	App. Total	
07:00 AM	5	0	5	0	193	10	0	203	16	3	106	0	125	66	163	0	229	562
07:15 AM	3	0	3	1	168	11	0	180	17	1	74	0	92	91	177	0	268	543
07:30 AM	2	0	2	1	163	12	0	176	25	1	103	0	129	94	184	0	278	585
07:45 AM	4	0	4	1	176	14	0	191	35	2	103	0	140	138	203	0	341	676
Total	14	0	14	3	700	47	0	750	93	7	386	0	486	389	727	0	1116	2366
08:00 AM	3	0	3	0	203	14	0	217	29	0	111	0	140	133	218	0	351	711
08:15 AM	1	0	1	1	183	16	1	201	26	0	111	1	138	143	257	0	400	740
08:30 AM	2	0	2	0	217	13	0	230	25	3	111	0	139	133	277	0	410	781
08:45 AM	4	0	4	0	196	12	0	208	38	3	114	0	155	162	322	0	484	851
Total	10	0	10	1	799	55	1	856	118	6	447	1	572	571	1074	0	1645	3083
*** BREAK ***																		
11:00 AM	2	0	2	2	182	20	0	204	15	1	86	0	102	72	163	0	235	543
11:15 AM	0	0	0	2	180	20	0	202	19	3	76	0	98	65	181	0	246	546
11:30 AM	6	0	6	0	185	18	0	203	25	1	76	0	102	48	148	0	196	507
11:45 AM	2	0	2	1	152	13	0	166	25	0	87	0	112	78	205	0	283	563
Total	10	0	10	5	699	71	0	775	84	5	325	0	414	263	697	0	960	2159
12:00 PM	0	0	0	2	172	19	0	193	27	0	84	0	111	82	175	0	257	561
12:15 PM	1	0	1	1	184	27	0	212	26	0	104	0	130	75	212	0	287	630
12:30 PM	4	0	4	0	188	14	0	202	23	0	96	0	119	64	191	0	255	580
12:45 PM	2	0	2	0	186	25	0	211	30	0	89	0	119	96	225	0	321	653
Total	7	0	7	3	730	85	0	818	106	0	373	0	479	317	803	0	1120	2424
01:00 PM	3	1	4	1	170	17	0	188	23	1	84	0	108	82	226	0	308	608
01:15 PM	1	0	1	2	198	16	0	216	17	1	84	0	102	73	173	0	246	565
01:30 PM	3	0	3	0	190	12	1	203	11	1	82	1	95	91	161	0	252	553
01:45 PM	3	0	3	1	174	20	0	195	13	0	78	0	91	78	189	0	267	556
Total	10	1	11	4	732	65	1	802	64	3	328	1	396	324	749	0	1073	2282
*** BREAK ***																		
03:00 PM	9	0	9	0	204	28	0	232	23	6	111	0	140	79	213	0	292	673
03:15 PM	4	0	4	3	206	10	0	219	26	1	100	0	127	70	192	0	262	612
03:30 PM	2	0	2	0	219	28	0	247	39	0	94	0	133	86	235	0	321	703
03:45 PM	1	0	1	0	223	17	0	240	26	3	107	0	136	87	221	0	308	685
Total	16	0	16	3	852	83	0	938	114	10	412	0	536	322	861	0	1183	2673
04:00 PM	6	0	6	1	289	27	0	317	15	1	115	0	131	85	238	0	323	777
04:15 PM	3	0	3	1	226	19	0	246	14	1	114	0	129	78	202	0	280	658
04:30 PM	3	0	3	1	222	28	0	251	18	0	119	0	137	102	231	0	333	724
04:45 PM	2	0	2	1	202	32	0	235	29	2	135	0	166	101	242	0	343	746
Total	14	0	14	4	939	106	0	1049	76	4	483	0	563	366	913	0	1279	2905
05:00 PM	2	0	2	0	241	31	0	272	10	2	130	0	142	124	259	0	383	799
05:15 PM	3	0	3	0	255	27	0	282	26	0	131	0	157	112	235	0	347	789
05:30 PM	1	0	1	1	190	28	0	219	17	0	127	0	144	93	254	0	347	711
05:45 PM	2	0	2	2	173	17	0	192	22	0	112	0	134	110	270	0	380	708
Total	8	0	8	3	859	103	0	965	75	2	500	0	577	439	1018	0	1457	3007
Grand Total	89	1	90	26	6310	615	2	6953	730	37	3254	2	4023	2991	6842	0	9833	20899
Apprch %	98.9	1.1		0.4	90.8	8.8	0		18.1	0.9	80.9	0		30.4	69.6	0		
Total %	0.4	0	0.4	0.1	30.2	2.9	0	33.3	3.5	0.2	15.6	0	19.2	14.3	32.7	0	47.1	

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Rd) File Name : (2) CR 520 (Newman Springs Rd) & CR 51 (Hance Ave)
CR51 (Hance Ave) & Munson PISite Code : 52081319
Municipality:Red Bank Borough Start Date : 8/13/2019
Counted By:Patrick T Barrett Page No : 1

Groups Printed- Single Unit Trucks

Start Time Factor	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West				Int. Total
	Right 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Peds 1.0	App. Total	
07:00 AM	0	0	0	0	1	1	0	2	4	0	1	0	5	1	2	0	3	10
07:15 AM	0	0	0	0	1	0	0	1	2	0	3	0	5	1	6	0	7	13
07:30 AM	1	0	1	0	4	2	0	6	0	0	2	0	2	2	7	0	9	18
07:45 AM	0	0	0	0	10	3	0	13	5	0	0	0	5	2	8	0	10	28
Total	1	0	1	0	16	6	0	22	11	0	6	0	17	6	23	0	29	69
08:00 AM	0	0	0	0	3	2	0	5	1	0	0	0	1	1	3	0	4	10
08:15 AM	0	0	0	0	1	1	0	2	1	0	4	0	5	2	6	0	8	15
08:30 AM	0	0	0	0	3	0	0	3	1	0	6	0	7	2	4	0	6	16
08:45 AM	0	0	0	0	4	3	0	7	1	0	1	0	2	0	3	0	3	12
Total	0	0	0	0	11	6	0	17	4	0	11	0	15	5	16	0	21	53
*** BREAK ***																		
11:00 AM	1	0	1	0	1	0	0	1	1	0	1	0	2	2	4	0	6	10
11:15 AM	0	0	0	0	6	2	0	8	1	0	1	0	2	3	1	0	4	14
11:30 AM	0	0	0	0	5	3	0	8	1	0	1	0	2	2	7	0	9	19
11:45 AM	0	0	0	0	7	1	0	8	2	1	1	0	4	2	4	0	6	18
Total	1	0	1	0	19	6	0	25	5	1	4	0	10	9	16	0	25	61
12:00 PM	1	0	1	0	3	1	0	4	2	0	1	0	3	2	6	0	8	16
12:15 PM	0	0	0	0	6	1	0	7	0	0	1	0	1	3	4	0	7	15
12:30 PM	0	0	0	0	5	0	0	5	0	0	4	0	4	1	4	0	5	14
12:45 PM	0	0	0	0	2	0	0	2	4	0	1	0	5	2	4	0	6	13
Total	1	0	1	0	16	2	0	18	6	0	7	0	13	8	18	0	26	58
01:00 PM	0	0	0	0	4	0	0	4	0	0	1	0	1	1	4	0	5	10
01:15 PM	0	0	0	0	2	0	0	2	1	0	1	0	2	0	4	0	4	8
01:30 PM	0	0	0	0	6	0	0	6	0	0	2	0	2	1	6	0	7	15
01:45 PM	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	1	3
Total	1	0	1	0	12	0	0	12	2	0	4	0	6	2	15	0	17	36
*** BREAK ***																		
03:00 PM	1	0	1	0	3	0	0	3	0	0	2	0	2	1	3	0	4	10
03:15 PM	1	0	1	0	2	0	0	2	0	0	0	0	0	3	3	0	6	9
03:30 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	6	0	6	7
03:45 PM	0	0	0	0	2	0	0	2	1	0	4	0	5	1	3	0	4	11
Total	2	0	2	0	7	1	0	8	1	0	6	0	7	5	15	0	20	37
04:00 PM	0	0	0	0	7	2	0	9	0	0	1	0	1	1	2	0	3	13
04:15 PM	1	0	1	0	6	0	0	6	0	0	1	0	1	2	1	0	3	11
04:30 PM	1	0	1	0	3	0	0	3	0	0	1	0	1	1	2	0	3	8
04:45 PM	0	0	0	0	2	0	0	2	0	0	4	0	4	1	0	0	1	7
Total	2	0	2	0	18	2	0	20	0	0	7	0	7	5	5	0	10	39
05:00 PM	0	0	0	0	4	1	0	5	0	0	0	0	0	1	1	0	2	7
05:15 PM	1	0	1	0	3	1	0	4	1	0	1	0	2	0	1	0	1	8
05:30 PM	0	0	0	0	3	0	0	3	0	0	0	0	0	1	2	0	3	6
05:45 PM	0	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	0	2
Total	1	0	1	0	11	2	0	13	1	0	2	0	3	2	4	0	6	23
Grand Total	9	0	9	0	110	25	0	135	30	1	47	0	78	42	112	0	154	376
Apprch %	100	0		0	81.5	18.5	0	35.9	38.5	1.3	60.3	0	20.7	27.3	72.7	0	41	
Total %	2.4	0	2.4	0	29.3	6.6	0		8	0.3	12.5	0		11.2	29.8	0		

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Rd) File Name : (2) CR 520 (Newman Springs Rd) & CR 51 (Hance Ave)
CR51 (Hance Ave) & Munson PISite Code : 52081319
Municipality:Red Bank Borough Start Date : 8/13/2019
Counted By:Patrick T Barrett Page No : 1

Groups Printed- Heavy Vehicles

Start Time Factor	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West				Int. Total
	Right 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Left 1.0	Peds 1.0	App. Total	Right 1.0	Thru 1.0	Peds 1.0	App. Total	
07:00 AM	0	0	0	0	2	0	0	2	1	0	0	0	1	0	2	0	2	5
07:15 AM	0	0	0	0	2	2	0	4	1	0	1	0	2	0	1	0	1	7
07:30 AM	0	0	0	0	2	3	0	5	2	0	0	0	2	1	1	0	2	9
07:45 AM	0	0	0	0	1	0	0	1	1	0	0	0	1	0	5	0	5	7
Total	0	0	0	0	7	5	0	12	5	0	1	0	6	1	9	0	10	28
08:00 AM	0	0	0	0	4	1	0	5	0	0	0	0	0	2	0	0	2	7
08:15 AM	0	0	0	0	2	1	0	3	2	0	0	0	2	2	3	0	5	10
08:30 AM	0	0	0	0	1	0	0	1	1	0	0	0	1	2	3	0	5	7
08:45 AM	0	0	0	1	7	0	0	8	2	0	1	0	3	1	2	0	3	14
Total	0	0	0	1	14	2	0	17	5	0	1	0	6	7	8	0	15	38
*** BREAK ***																		
11:00 AM	1	0	1	0	3	0	0	3	1	0	1	0	2	1	2	0	3	9
11:15 AM	0	0	0	1	1	1	0	3	3	0	1	0	4	0	3	0	3	10
11:30 AM	0	0	0	0	0	2	0	2	4	0	2	0	6	3	1	0	4	12
11:45 AM	1	0	1	0	4	2	0	6	1	0	2	0	3	1	4	0	5	15
Total	2	0	2	1	8	5	0	14	9	0	6	0	15	5	10	0	15	46
12:00 PM	0	0	0	0	6	0	0	6	0	0	0	0	0	0	4	0	4	10
12:15 PM	0	0	0	0	2	0	0	2	1	0	2	0	3	2	4	0	6	11
12:30 PM	0	0	0	0	5	1	0	6	1	0	0	0	1	1	2	0	3	10
12:45 PM	0	0	0	0	5	0	0	5	0	0	1	0	1	2	3	0	5	11
Total	0	0	0	0	18	1	0	19	2	0	3	0	5	5	13	0	18	42
01:00 PM	0	0	0	0	1	2	0	3	0	0	0	0	0	0	3	0	3	6
01:15 PM	0	0	0	0	3	0	0	3	0	0	1	0	1	0	4	0	4	8
01:30 PM	0	0	0	0	5	0	0	5	1	0	0	0	1	1	2	0	3	9
01:45 PM	0	0	0	0	2	1	0	3	0	0	1	0	1	1	2	0	3	7
Total	0	0	0	0	11	3	0	14	1	0	2	0	3	2	11	0	13	30
*** BREAK ***																		
03:00 PM	0	0	0	0	4	0	0	4	0	0	0	0	0	1	4	0	5	9
03:15 PM	0	0	0	0	4	0	0	4	0	0	0	0	0	1	2	0	3	7
03:30 PM	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	0	0	3
03:45 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	2	5	0	7	9
Total	0	0	0	0	12	1	0	13	0	0	0	0	0	4	11	0	15	28
04:00 PM	0	0	0	0	3	0	0	3	0	0	0	0	0	0	1	0	1	4
04:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	1	1	0	2	4
04:30 PM	0	0	0	0	3	0	0	3	1	0	0	0	1	0	0	0	0	4
04:45 PM	0	0	0	0	1	0	0	1	0	0	1	0	1	0	2	0	2	4
Total	0	0	0	0	9	0	0	9	1	0	1	0	2	1	4	0	5	16
05:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	1	1	0	2	4
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	3
05:30 PM	0	0	0	0	2	1	0	3	0	0	0	0	0	0	2	0	2	5
05:45 PM	0	0	0	0	2	0	0	2	0	0	3	0	3	0	1	0	1	6
Total	0	0	0	0	6	1	0	7	0	0	3	0	3	2	6	0	8	18
Grand Total	2	0	2	2	85	18	0	105	23	0	17	0	40	27	72	0	99	246
Apprch %	100	0		1.9	81	17.1	0		57.5	0	42.5	0		27.3	72.7	0		
Total %	0.8	0	0.8	0.8	34.6	7.3	0	42.7	9.3	0	6.9	0	16.3	11	29.3	0	40.2	

6

TRAFFIC ENUMERATOR
WORK REPORT

CODE: _____ TOWN Tinton Falls Borough DATE 8/10/19
LOCATION CR 520 (Newman Springs Rd) 52' west of Knight Street
DIRECTION OF ROAD TUBE NO. 1 Westbound Eastbound L-10

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/02/19 TIME 10:20

PICK UP: DATE 8/16/19 TIME 10:15 AM

SER. NO. 30517 MODEL APOLCON POLE NO. Keep Right 816N

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 8/12/19 photos of counter & tubes are ok. 8/13/19
the counter & tubes are ok. 8/14/19 the counter & tubes are ok.
8/15/19 the counter & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Petrick + Barnett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Rd)
 52' West Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 08/09/19
 Date End: 08/16/19

(2) (V) CR 520 (Newman Springs Road) West Of Knight Street

Start Time	08/05/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average		
	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	
12:00 AM	*	*	*	*	*	*	*	*	*	*	152	144	204	165	178	154	
01:00	*	*	*	*	*	*	*	*	*	*	68	90	130	104	99	97	
02:00	*	*	*	*	*	*	*	*	*	*	82	51	77	58	80	54	
03:00	*	*	*	*	*	*	*	*	*	*	49	33	43	38	46	36	
04:00	*	*	*	*	*	*	*	*	*	*	43	33	32	32	38	32	
05:00	*	*	*	*	*	*	*	*	*	*	102	73	65	41	84	57	
06:00	*	*	*	*	*	*	*	*	*	*	193	195	141	116	167	156	
07:00	*	*	*	*	*	*	*	*	*	*	341	393	224	233	282	313	
08:00	*	*	*	*	*	*	*	*	*	*	464	721	323	467	394	594	
09:00	*	*	*	*	*	*	*	*	*	*	561	798	470	611	516	704	
10:00	*	*	*	*	*	*	*	*	*	*	695	819	566	786	630	802	
11:00	*	*	*	*	*	*	*	*	*	802	808	754	870	646	805	734	828
12:00 PM	*	*	*	*	*	*	*	*	*	882	875	745	777	662	840	763	831
01:00	*	*	*	*	*	*	*	*	*	840	817	693	786	689	689	741	764
02:00	*	*	*	*	*	*	*	*	*	965	828	742	779	767	686	825	764
03:00	*	*	*	*	*	*	*	*	*	1142	896	911	806	807	577	953	760
04:00	*	*	*	*	*	*	*	*	*	1150	891	854	780	844	505	949	725
05:00	*	*	*	*	*	*	*	*	*	1113	928	945	697	751	503	936	709
06:00	*	*	*	*	*	*	*	*	*	850	863	868	636	785	315	834	605
07:00	*	*	*	*	*	*	*	*	*	620	697	668	506	426	405	571	536
08:00	*	*	*	*	*	*	*	*	*	547	482	634	385	457	334	546	400
09:00	*	*	*	*	*	*	*	*	*	459	364	541	333	373	303	458	333
10:00	*	*	*	*	*	*	*	*	*	378	318	445	301	207	180	343	266
11:00	*	*	*	*	*	*	*	*	*	284	297	340	294	139	118	254	236
Lane Day	0	0	0	0	0	0	0	0	0	10032	9064	11890	11300	9828	8911	11421	10756
AM Peak	-	-	-	-	-	-	-	-	-	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00
Vol.	-	-	-	-	-	-	-	-	-	802	808	754	870	646	805	734	828
PM Peak	-	-	-	-	-	-	-	-	-	16:00	17:00	17:00	15:00	16:00	12:00	15:00	12:00
Vol.	-	-	-	-	-	-	-	-	-	1150	928	945	806	844	840	953	831

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Rd)
 52' West Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 08/09/19
 Date End: 08/16/19

(2) (V) CR 520 (Newman Springs Road) West Of Knight Street

Start Time	08/12/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd
12:00 AM	69	60	59	60	68	66	65	92	89	96	*	*	*	*	70	75
01:00	37	37	21	38	28	44	41	34	45	63	*	*	*	*	34	43
02:00	25	16	25	29	23	23	28	29	27	29	*	*	*	*	26	25
03:00	37	30	34	24	46	29	49	23	46	33	*	*	*	*	42	28
04:00	112	58	100	55	102	42	100	52	91	58	*	*	*	*	101	53
05:00	282	150	287	138	303	129	283	134	260	135	*	*	*	*	283	137
06:00	545	415	538	401	539	390	524	378	383	362	*	*	*	*	506	389
07:00	806	792	802	793	756	752	768	821	616	759	*	*	*	*	750	783
08:00	903	1083	888	1097	871	1047	859	1072	748	978	*	*	*	*	854	1055
09:00	806	1023	747	1102	692	974	705	1001	614	961	*	*	*	*	713	1012
10:00	693	869	727	825	692	815	707	915	*	*	*	*	*	*	705	856
11:00	764	870	814	770	763	771	825	865	*	*	*	*	*	*	792	819
12:00 PM	784	852	822	873	854	805	825	914	*	*	*	*	*	*	821	861
01:00	812	839	873	837	856	875	815	851	*	*	*	*	*	*	839	850
02:00	814	858	877	829	772	858	883	799	*	*	*	*	*	*	836	836
03:00	1118	820	1027	941	950	826	949	863	*	*	*	*	*	*	1011	862
04:00	1173	841	1034	852	1038	848	961	772	*	*	*	*	*	*	1052	828
05:00	1154	1000	1008	1030	1104	892	946	902	*	*	*	*	*	*	1053	956
06:00	938	962	756	867	840	930	721	986	*	*	*	*	*	*	814	936
07:00	718	696	589	646	657	719	612	748	*	*	*	*	*	*	644	702
08:00	546	462	455	370	601	485	561	487	*	*	*	*	*	*	541	451
09:00	380	332	317	269	381	359	452	333	*	*	*	*	*	*	382	323
10:00	225	237	211	225	228	231	266	271	*	*	*	*	*	*	232	241
11:00	123	133	97	123	158	132	177	203	*	*	*	*	*	*	139	148
Lane Day	13864	13435	13108	13194	13322	13042	13122	13545	2919	3474	0	0	0	0	13240	13269
AM Peak	08:00	08:00	08:00	09:00	08:00	08:00	08:00	08:00	08:00	08:00	-	-	-	-	08:00	08:00
Vol.	903	1083	888	1102	871	1047	859	1072	748	978	-	-	-	-	854	1055
PM Peak	16:00	17:00	16:00	17:00	17:00	18:00	16:00	18:00	-	-	-	-	-	-	17:00	17:00
Vol.	1173	1000	1034	1030	1104	930	961	986	-	-	-	-	-	-	1053	956

Comb. Total	27299	26302	26364	26667	25489	23190	18739	48686
ADT	ADT 25,081	AADT 25,081						

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Location: CR 520 (Newman Springs Rd)
 52' West Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Date Start: 09-Aug-19
 Date End: 16-Aug-19

(2) (C) CR 520 (Newman Springs Road) West Of Knight Street

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
08/16/19	0	126	36	0	8	0	0	2	0	0	0	0	0	13	185
01:00	0	85	17	0	3	0	0	0	0	0	0	0	0	3	108
02:00	0	41	9	0	1	0	0	0	0	0	0	0	0	5	56
03:00	0	55	11	1	7	0	0	0	0	0	0	0	0	5	79
04:00	0	84	37	1	10	1	0	0	0	0	0	0	0	16	149
05:00	4	225	76	6	25	2	0	5	0	0	0	0	0	52	395
06:00	3	417	117	6	61	2	0	6	2	1	0	0	0	130	745
07:00	11	837	182	9	68	1	0	16	0	2	0	2	0	247	1375
08:00	15	1139	202	7	73	4	1	23	1	1	0	0	0	260	1726
09:00	15	1013	205	17	61	9	0	22	2	4	0	0	1	226	1575
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	48	4022	892	47	317	19	1	74	5	8	0	2	1	957	6393
Percent	0.8%	62.9%	14.0%	0.7%	5.0%	0.3%	0.0%	1.2%	0.1%	0.1%	0.0%	0.0%	0.0%	15.0%	
AM Peak	08:00	08:00	09:00	09:00	08:00	09:00	08:00	08:00	06:00	09:00		07:00	09:00	08:00	
Vol.	15	1139	205	17	73	9	1	23	2	4		2	1	260	
PM Peak															
Vol.															
Grand Total	1543	128730	21112	852	5332	434	81	1338	123	138	57	20	14	14276	174050
Percent	0.9%	74.0%	12.1%	0.5%	3.1%	0.2%	0.0%	0.8%	0.1%	0.1%	0.0%	0.0%	0.0%	8.2%	

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 09-Aug-19

Date End: 16-Aug-19

(2) (S) CR 520 (Newman Springs Road) West Of Knight Street

Location: CR 520 (Newman Springs Rd)
 52' West Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Westbd, Eastbd	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
08/16/19	15	0	0	0	17	46	60	34	9	3	0	0	1	0	185	36-45	106
01:00	5	0	0	1	10	34	37	12	7	1	1	0	0	0	108	36-45	71
02:00	5	0	0	2	5	10	22	10	1	1	0	0	0	0	56	36-45	32
03:00	6	2	0	1	6	22	21	17	3	1	0	0	0	0	79	36-45	43
04:00	17	0	1	0	12	28	55	27	6	2	1	0	0	0	149	36-45	83
05:00	52	4	1	2	24	78	106	85	38	4	1	0	0	0	395	41-50	191
06:00	127	4	2	2	52	168	188	135	52	12	3	0	0	0	745	36-45	356
07:00	245	11	9	35	164	299	350	186	62	13	1	0	0	0	1375	36-45	649
08:00	261	13	17	53	168	528	405	231	37	12	1	0	0	0	1726	36-45	933
09:00	227	3	9	43	247	482	350	180	25	7	2	0	0	0	1575	36-45	832
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	960	37	39	139	705	1695	1594	917	240	56	10	0	1	0	6393		
Percent	15.0%	0.6%	0.6%	2.2%	11.0%	26.5%	24.9%	14.3%	3.8%	0.9%	0.2%	0.0%	0.0%	0.0%			
AM Peak	08:00	08:00	08:00	08:00	09:00	08:00	08:00	08:00	07:00	09:00	07:00	06:00	00:00		08:00		
Vol.	261	13	17	53	247	528	405	231	62	13	3		1		1726		
PM Peak																	
Vol.	14980	1507	2951	8217	25577	49921	44050	20849	5033	843	96	21	4	1	174050		
Percent	8.6%	0.9%	1.7%	4.7%	14.7%	28.7%	25.3%	12.0%	2.9%	0.5%	0.1%	0.0%	0.0%	0.0%			

15th Percentile : 29 MPH
 50th Percentile : 38 MPH
 85th Percentile : 45 MPH
 95th Percentile : 49 MPH

Stats
 10 MPH Pace Speed : 36-45 MPH
 Number in Pace : 93971
 Percent in Pace : 54.0%
 Number of Vehicles > 55 MPH : 965
 Percent of Vehicles > 55 MPH : 0.6%
 Mean Speed(Average) : 37 MPH

4

TRAFFIC ENUMERATOR
WORK REPORT

CODE: CR 520 TOWN Red Bank Borough DATE 8/10/19
LOCATION (Newman Springs Road) 103' west of Munson Place

DIRECTION OF ROAD TUBE NO. Westbound L-5
One Direction

PRIORITY 1 2 3
Restart 8/16/19
8/14/19 12:39 Just Volume 9:54 AM

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/10/19 TIME 9:30 AM

PICK UP: DATE 8/14/19 TIME 12:38 AM

SER. NO. 28876 MODEL Apexion POLE NO. Sign

Speed Limit
45

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: .7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 8/12/19 Took photos the counter & tubes are ok. 8/13/19
The counter & tubes are ok. Restart only volume 8/14/19 12:39 PM
8/15/19 the counter & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Patricia Bennett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 08/09/19
 Date End: 08/14/19

(2) 1 of 2 (V) CR 520 (Newman Springs Road) West Of Munson Place

Start Time	Mon 08/05/19	Tue 08/06/19	Wed 08/07/19	Thu 08/08/19	Fri 08/09/19	Average Day	Sat 08/10/19	Sun 08/11/19	Week Average
12:00 AM	*	*	*	*	*	*	158	207	182
01:00	*	*	*	*	*	*	82	118	100
02:00	*	*	*	*	*	*	87	69	78
03:00	*	*	*	*	*	*	58	45	52
04:00	*	*	*	*	*	*	60	39	50
05:00	*	*	*	*	*	*	122	78	100
06:00	*	*	*	*	*	*	245	161	203
07:00	*	*	*	*	*	*	420	265	342
08:00	*	*	*	*	*	*	583	425	504
09:00	*	*	*	*	*	*	687	579	633
10:00	*	*	*	*	933	933	872	711	839
11:00	*	*	*	*	971	971	895	763	876
12:00 PM	*	*	*	*	1045	1045	908	793	915
01:00	*	*	*	*	1107	1107	825	829	920
02:00	*	*	*	*	1197	1197	912	888	999
03:00	*	*	*	*	1399	1399	1111	984	1165
04:00	*	*	*	*	1516	1516	1099	1098	1238
05:00	*	*	*	*	1500	1500	1151	910	1187
06:00	*	*	*	*	1077	1077	1081	1215	1124
07:00	*	*	*	*	737	737	800	510	682
08:00	*	*	*	*	625	625	732	555	637
09:00	*	*	*	*	506	506	657	444	536
10:00	*	*	*	*	402	402	483	221	369
11:00	*	*	*	*	306	306	365	139	270
Day Total	0	0	0	0	13321	13321	14393	12046	14001
% Avg. WkDay	0.0%	0.0%	0.0%	0.0%	100.0%				
% Avg. Week	0.0%	0.0%	0.0%	0.0%	95.1%	95.1%	102.8%	86.0%	
AM Peak	-	-	-	-	11:00	11:00	11:00	11:00	11:00
Vol.	-	-	-	-	971	971	895	763	876
PM Peak	-	-	-	-	16:00	16:00	17:00	18:00	16:00
Vol.	-	-	-	-	1516	1516	1151	1215	1238

7-Day (24 Hour) Automated Traffic Recorder Count

Location:CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

Monmouth County Traffic Safety Engineering

Site Code:

1 E. Main Street,Hall Of Records Annex

Freehold, N.J. 07728

Date Start: 08/09/19

Date End: 08/14/19

(2) 1 of 2 (V) CR 520 (Newman Springs Road) West Of Munson Place

Start Time	Mon 08/12/19	Tue 08/13/19	Wed 08/14/19	Thu 08/15/19	Fri 08/16/19	Average Day	Sat 08/17/19	Sun 08/18/19	Week Average
12:00 AM	71	63	68	*	*	67	*	*	67
01:00	38	31	27	*	*	32	*	*	32
02:00	32	32	26	*	*	30	*	*	30
03:00	51	37	53	*	*	47	*	*	47
04:00	161	151	155	*	*	156	*	*	156
05:00	412	413	393	*	*	406	*	*	406
06:00	797	800	744	*	*	780	*	*	780
07:00	1086	1102	985	*	*	1058	*	*	1058
08:00	1243	1266	1083	*	*	1197	*	*	1197
09:00	1100	1073	936	*	*	1036	*	*	1036
10:00	975	1019	881	*	*	958	*	*	958
11:00	990	1036	917	*	*	981	*	*	981
12:00 PM	1008	1058	*	*	*	1033	*	*	1033
01:00	1033	991	*	*	*	1012	*	*	1012
02:00	1091	1005	*	*	*	1048	*	*	1048
03:00	1415	1184	*	*	*	1300	*	*	1300
04:00	1610	1254	*	*	*	1432	*	*	1432
05:00	1498	1213	*	*	*	1356	*	*	1356
06:00	1169	917	*	*	*	1043	*	*	1043
07:00	887	721	*	*	*	804	*	*	804
08:00	706	499	*	*	*	602	*	*	602
09:00	439	341	*	*	*	390	*	*	390
10:00	246	220	*	*	*	233	*	*	233
11:00	146	116	*	*	*	131	*	*	131
Day Total	18204	16542	6268	0	0	17132	0	0	17132
% Avg. WkDay	106.3%	96.6%	36.6%	0.0%	0.0%				
% Avg. Week	106.3%	96.6%	36.6%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	-	-	08:00	-	-	08:00
Vol.	1243	1266	1083	-	-	1197	-	-	1197
PM Peak	16:00	16:00	-	-	-	16:00	-	-	16:00
Vol.	1610	1254	-	-	-	1432	-	-	1432
Grand Total	18204	16542	6268	0	13321	30453	14393	12046	31133
ADT		ADT 15,789			AADT 15,789				

7-Day (24 Hour) Automated Traffic Recorder Count

Location: CR 520 (Newman Springs Rd)
103' West Of Munson Place.
Municipality: Red Bank Borough
Counted By: Patrick T Barrett

**Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

Site Code:

Date Start: 08/14/19
Date End: 08/16/19

(2) 2 of 2 (V) CR 520 (Newman Springs Road) West Of Munson Place

Start Time	08/12/19		Tue		Wed		Thu		Fri		Sat		Sun		Average Da	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	*	*	*	*	*	27	320	42	*	*	*	*	*	34	320
12:15	*	*	*	*	*	*	21	273	24	*	*	*	*	*	22	273
12:30	*	*	*	*	*	*	14	313	17	*	*	*	*	*	16	313
12:45	*	*	*	*	*	255	9	266	19	*	*	*	*	*	14	260
01:00	*	*	*	*	*	304	14	322	15	*	*	*	*	*	14	313
01:15	*	*	*	*	*	307	10	327	17	*	*	*	*	*	14	317
01:30	*	*	*	*	*	300	10	321	8	*	*	*	*	*	9	310
01:45	*	*	*	*	*	262	7	292	16	*	*	*	*	*	12	277
02:00	*	*	*	*	*	265	5	328	7	*	*	*	*	*	6	296
02:15	*	*	*	*	*	281	10	338	8	*	*	*	*	*	9	310
02:30	*	*	*	*	*	289	8	325	6	*	*	*	*	*	7	307
02:45	*	*	*	*	*	303	9	286	8	*	*	*	*	*	8	294
03:00	*	*	*	*	*	349	10	392	12	*	*	*	*	*	11	370
03:15	*	*	*	*	*	345	9	380	12	*	*	*	*	*	10	362
03:30	*	*	*	*	*	333	19	368	17	*	*	*	*	*	18	350
03:45	*	*	*	*	*	337	10	381	14	*	*	*	*	*	12	359
04:00	*	*	*	*	*	414	20	386	14	*	*	*	*	*	17	400
04:15	*	*	*	*	*	409	30	411	29	*	*	*	*	*	30	410
04:30	*	*	*	*	*	366	45	419	42	*	*	*	*	*	44	392
04:45	*	*	*	*	*	370	54	351	52	*	*	*	*	*	53	360
05:00	*	*	*	*	*	444	65	453	69	*	*	*	*	*	67	448
05:15	*	*	*	*	*	391	93	427	85	*	*	*	*	*	89	409
05:30	*	*	*	*	*	376	113	386	104	*	*	*	*	*	108	381
05:45	*	*	*	*	*	336	135	357	110	*	*	*	*	*	122	346
06:00	*	*	*	*	*	321	171	340	123	*	*	*	*	*	147	330
06:15	*	*	*	*	*	305	184	291	147	*	*	*	*	*	166	298
06:30	*	*	*	*	*	227	190	259	151	*	*	*	*	*	170	243
06:45	*	*	*	*	*	211	216	260	193	*	*	*	*	*	204	236
07:00	*	*	*	*	*	283	270	254	199	*	*	*	*	*	234	268
07:15	*	*	*	*	*	198	301	247	229	*	*	*	*	*	265	222
07:30	*	*	*	*	*	185	302	208	263	*	*	*	*	*	282	196
07:45	*	*	*	*	*	179	321	213	313	*	*	*	*	*	317	196
08:00	*	*	*	*	*	171	322	201	295	*	*	*	*	*	308	186
08:15	*	*	*	*	*	182	354	209	286	*	*	*	*	*	320	196
08:30	*	*	*	*	*	177	334	174	303	*	*	*	*	*	318	176
08:45	*	*	*	*	*	143	315	163	317	*	*	*	*	*	316	153
09:00	*	*	*	*	*	130	284	161	299	*	*	*	*	*	292	146
09:15	*	*	*	*	*	135	276	142	267	*	*	*	*	*	272	138
09:30	*	*	*	*	*	109	252	144	253	*	*	*	*	*	252	126
09:45	*	*	*	*	*	87	266	111	*	*	*	*	*	*	266	99
10:00	*	*	*	*	*	77	252	102	*	*	*	*	*	*	252	90
10:15	*	*	*	*	*	72	264	72	*	*	*	*	*	*	264	72
10:30	*	*	*	*	*	54	239	60	*	*	*	*	*	*	239	57
10:45	*	*	*	*	*	46	237	63	*	*	*	*	*	*	237	54
11:00	*	*	*	*	*	57	280	62	*	*	*	*	*	*	280	60
11:15	*	*	*	*	*	44	286	47	*	*	*	*	*	*	286	46
11:30	*	*	*	*	*	43	319	41	*	*	*	*	*	*	319	42
11:45	*	*	*	*	*	38	323	34	*	*	*	*	*	*	323	36
Total	0	0	0	0	0	1051	7305	1228	4385	0	0	0	0	0	7075	11843
Day Total	0	0	0	0	0	10510	19585	19585	4385	0	0	0	0	0	18918	
% Splits	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	37.3%	62.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	37.4%	62.6%
Peak Vol.	-	-	-	-	-	04:15	07:45	04:30	08:15	-	-	-	-	-	07:45	04:15
P.H.F.	-	-	-	-	-	0.895	0.940	0.911	0.950	-	-	-	-	-	0.987	0.898

ADT ADT 18,835 AADT 18,835

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 09-Aug-19
 Date End: 14-Aug-19

(2) 1 of 2 (C) CR 520 (Newman Springs Road) West Of Munson Place

Westbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
08/14/19	0	0	0	0	0	0	0	0	0	0	0	0	0	68	68
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	27	27
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	53	53
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	155	155
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	393	393
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	744	744
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	985	985
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1083	1083
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	936	936
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	881	881
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	917	917
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	0	0	0	0	0	0	0	0	0	0	0	6268	6268
Percent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
AM Peak Vol.														1083	
PM Peak Vol.															
Grand Total	214	41154	9578	268	2253	60	7	450	22	38	15	0	1	26714	80774
Percent	0.3%	50.9%	11.9%	0.3%	2.8%	0.1%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	33.1%	

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 09-Aug-19

Date End: 14-Aug-19

(2) 1 of 2 (S) CR 520 (Newman Springs Road) West Of Munson Place

Location: CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Westbd	Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
08/14/19		68	0	0	0	0	0	0	0	0	0	0	0	0	0	68	6-15	45
	01:00	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27	1-10	18
	02:00	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26	6-15	17
	03:00	53	0	0	0	0	0	0	0	0	0	0	0	0	0	53	6-15	35
	04:00	155	0	0	0	0	0	0	0	0	0	0	0	0	0	155	6-15	103
	05:00	393	0	0	0	0	0	0	0	0	0	0	0	0	0	393	1-10	262
	06:00	744	0	0	0	0	0	0	0	0	0	0	0	0	0	744	6-15	496
	07:00	985	0	0	0	0	0	0	0	0	0	0	0	0	0	985	1-10	657
	08:00	1083	0	0	0	0	0	0	0	0	0	0	0	0	0	1083	1-10	722
	09:00	936	0	0	0	0	0	0	0	0	0	0	0	0	0	936	1-10	624
	10:00	881	0	0	0	0	0	0	0	0	0	0	0	0	0	881	6-15	587
	11:00	917	0	0	0	0	0	0	0	0	0	0	0	0	0	917	6-15	611
	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	6268	0	0	0	0	0	0	0	0	0	0	0	0	0	6268		
	Percent	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
	AM Peak	08:00														08:00		
	Vol.	1083														1083		
	PM Peak																	
	Vol.																	
	Total	26759	162	700	5751	15620	10560	9207	7846	3240	748	143	25	9	4	80774		
	Percent	33.1%	0.2%	0.9%	7.1%	19.3%	13.1%	11.4%	9.7%	4.0%	0.9%	0.2%	0.0%	0.0%	0.0%			

15th Percentile : 6 MPH
 50th Percentile : 32 MPH
 85th Percentile : 44 MPH
 95th Percentile : 50 MPH

Stats
 10 MPH Pace Speed : 31-40 MPH
 Number in Pace : 26180
 Percent in Pace : 32.4%
 Number of Vehicles > 55 MPH : 929
 Percent of Vehicles > 55 MPH : 1.2%
 Mean Speed(Average) : 29 MPH

①

TRAFFIC ENUMERATOR
WORK REPORT

CODE _____ TOWN Rep Bank Borough DATE 8/09/19
LOCATION KNIGHT Street 119 North of CR 520 (Newman Springs Road)
DIRECTION OF ROAD TUBE NO. 1 Southbound

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/09/19 TIME 12:24 PM

PICK UP: DATE 8/16/19 TIME 11:32 AM

SER. NO. 23376 MODEL Apurva POLE NO. No. SIGN

NO. SIGN
Stopping
or
standing

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 8/12/19 took photos of the counter & tubes and ok
The counter & tubes are ok. 8/14/19 the counter & tubes are ok 8/13/19
8/15/19 the counter & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Patricia Bennett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Knight Street
 119' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code: Apollyon

Date Start: 08/09/19
 Date End: 08/16/19

(2) (V) Knight Street North Of CR 520 (Newman Springs Road)

Start Time	08/05/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd
12:00 AM	*	*	*	*	*	*	*	*	*	*	7	4	4	9	6	6
01:00	*	*	*	*	*	*	*	*	*	*	1	3	9	9	5	6
02:00	*	*	*	*	*	*	*	*	*	*	1	6	3	6	2	6
03:00	*	*	*	*	*	*	*	*	*	*	2	2	2	2	2	2
04:00	*	*	*	*	*	*	*	*	*	*	1	3	2	4	2	4
05:00	*	*	*	*	*	*	*	*	*	*	3	0	3	3	3	2
06:00	*	*	*	*	*	*	*	*	*	*	13	10	9	10	11	10
07:00	*	*	*	*	*	*	*	*	*	*	20	25	12	21	16	23
08:00	*	*	*	*	*	*	*	*	*	*	21	18	31	18	26	18
09:00	*	*	*	*	*	*	*	*	*	*	27	21	22	15	24	18
10:00	*	*	*	*	*	*	*	*	*	*	29	27	20	14	24	20
11:00	*	*	*	*	*	*	*	*	*	*	41	24	27	19	34	22
12:00 PM	*	*	*	*	*	*	*	*	*	*	27	24	26	37	26	30
01:00	*	*	*	*	*	*	*	*	*	22	31	22	15	23	19	22
02:00	*	*	*	*	*	*	*	*	*	20	27	22	25	20	24	25
03:00	*	*	*	*	*	*	*	*	*	36	29	36	31	35	26	36
04:00	*	*	*	*	*	*	*	*	*	36	32	19	20	18	17	24
05:00	*	*	*	*	*	*	*	*	*	24	32	9	19	14	16	22
06:00	*	*	*	*	*	*	*	*	*	15	31	21	31	21	13	19
07:00	*	*	*	*	*	*	*	*	*	26	19	32	13	19	27	26
08:00	*	*	*	*	*	*	*	*	*	29	25	24	19	17	31	23
09:00	*	*	*	*	*	*	*	*	*	11	17	8	19	12	11	10
10:00	*	*	*	*	*	*	*	*	*	14	19	4	10	5	8	8
11:00	*	*	*	*	*	*	*	*	*	8	21	11	15	8	9	15
Lane	0	0	0	0	0	0	0	0	0	241	283	401	384	362	368	395
Day	0	0	0	0	0	0	0	0	0	524	283	785	384	730	368	796
AM Peak	-	-	-	-	-	-	-	-	-	-	-	11:00	10:00	08:00	07:00	11:00
Vol.	-	-	-	-	-	-	-	-	-	-	-	41	27	31	21	34
PM Peak	-	-	-	-	-	-	-	-	-	15:00	16:00	15:00	15:00	15:00	12:00	15:00
Vol.	-	-	-	-	-	-	-	-	-	36	32	36	31	35	37	36

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Knight Street
 119' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code: Apollyon

Date Start: 08/09/19
 Date End: 08/16/19

(2) (V) Knight Street North Of CR 520 (Newman Springs Road)

Start Time	08/12/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd
12:00 AM	1	1	5	4	3	1	3	8	3	9	*	*	*	*	3	5
01:00	2	3	0	1	1	0	0	1	1	0	*	*	*	*	1	1
02:00	0	1	0	0	1	2	0	1	2	1	*	*	*	*	1	1
03:00	1	1	1	1	0	2	2	3	8	6	*	*	*	*	2	3
04:00	1	4	4	3	3	3	3	3	2	6	*	*	*	*	3	4
05:00	5	6	11	9	8	6	5	7	14	9	*	*	*	*	9	7
06:00	17	19	15	21	11	9	10	24	19	14	*	*	*	*	14	17
07:00	33	33	31	36	36	32	40	27	44	32	*	*	*	*	37	32
08:00	40	31	23	24	30	39	25	34	52	46	*	*	*	*	34	35
09:00	16	19	24	13	22	16	19	18	20	16	*	*	*	*	22	16
10:00	26	23	24	22	24	18	25	27	*	*	*	*	*	*	25	22
11:00	18	23	30	34	21	22	27	22	*	*	*	*	*	*	24	25
12:00 PM	19	24	22	36	32	24	22	30	*	*	*	*	*	*	24	28
01:00	27	20	20	24	22	28	22	26	*	*	*	*	*	*	23	24
02:00	18	29	27	33	20	22	29	24	*	*	*	*	*	*	24	27
03:00	32	31	41	25	38	28	35	35	*	*	*	*	*	*	36	30
04:00	27	21	29	36	33	15	44	24	*	*	*	*	*	*	33	24
05:00	27	33	21	28	17	28	28	32	*	*	*	*	*	*	23	30
06:00	21	25	28	30	19	24	26	27	*	*	*	*	*	*	24	26
07:00	27	36	25	24	21	22	26	26	*	*	*	*	*	*	25	27
08:00	22	22	13	20	12	21	20	20	*	*	*	*	*	*	17	21
09:00	8	12	9	14	5	13	4	15	*	*	*	*	*	*	6	14
10:00	4	11	5	16	8	18	7	13	*	*	*	*	*	*	6	14
11:00	6	9	10	11	12	11	13	16	*	*	*	*	*	*	10	12
Lane	398	437	418	465	399	404	442	463	165	139	0	0	0	0	426	445
Day	835		883		803		905		304		0		0		871	
AM Peak	08:00	07:00	07:00	07:00	07:00	08:00	07:00	08:00	08:00	08:00	-	-	-	-	07:00	08:00
Vol.	40	33	31	36	36	39	40	34	52	46	-	-	-	-	37	35
PM Peak	15:00	19:00	15:00	12:00	15:00	13:00	16:00	15:00	-	-	-	-	-	-	15:00	15:00
Vol.	32	36	41	36	38	28	44	35	-	-	-	-	-	-	36	30

Comb. Total	835	883	803	905	828	785	730	1667
ADT	ADT 846	AADT 846						

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Knight Street
 119' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code: Apollyon

Date Start: 09-Aug-19
 Date End: 16-Aug-19

(2) (S) Knight Street North Of CR 520 (Newman Springs Road)

Southbd, Northbd	1	4	7	10	13	16	19	22	25	28	31	34	37	40	Total	Pace Speed	Number in Pace
Start Time	3	6	9	12	15	18	21	24	27	30	33	36	39	999			
08/16/19	2	1	3	1	3	2	0	0	0	0	0	0	0	0	12	7-16	8
01:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	8-17	1
02:00	2	0	0	0	0	1	0	0	0	0	0	0	0	0	3	1-10	2
03:00	2	0	0	3	6	1	2	0	0	0	0	0	0	0	14	10-19	11
04:00	1	0	0	2	2	1	1	0	1	0	0	0	0	0	8	10-19	5
05:00	2	0	0	4	6	8	3	0	0	0	0	0	0	0	23	10-19	19
06:00	5	0	0	3	8	12	5	0	0	0	0	0	0	0	33	12-21	26
07:00	13	1	5	15	13	13	10	6	0	0	0	0	0	0	76	10-19	44
08:00	12	6	10	16	20	20	11	2	1	0	0	0	0	0	98	10-19	60
09:00	0	1	0	5	7	14	8	1	0	0	0	0	0	0	36	12-21	31
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	39	9	18	49	65	73	40	9	2	0	0	0	0	0	304		
Percent	12.8%	3.0%	5.9%	16.1%	21.4%	24.0%	13.2%	3.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	08:00	08:00	08:00	08:00	08:00	08:00	07:00	04:00						08:00		
Vol.	13	6	10	16	20	20	11	6	1						98		
PM Peak																	
Vol.																	
Total	564	68	227	668	1512	1617	815	252	42	3	1	0	0	0	5769		
Percent	9.8%	1.2%	3.9%	11.6%	25.2%	28.0%	14.1%	4.4%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 9 MPH
 50th Percentile : 14 MPH
 85th Percentile : 18 MPH
 95th Percentile : 21 MPH

Stats

10 MPH Pace Speed : 12-21 MPH
 Number in Pace : 4167
 Percent in Pace : 72.2%
 Number of Vehicles > 55 MPH : 0
 Percent of Vehicles > 55 MPH : 0.0%
 Mean Speed(Average) : 14 MPH

(7)

TRAFFIC ENUMERATOR
WORK REPORT

CODE: _____ TOWN Tinton Falls Borough DATE 8/09/19
LOCATION CR 520 (Newman Springs) Road 143' East of Knight Street

DIRECTION OF ROAD TUBE NO. 1 East Bound L-S
ONE Direction

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/09/19 TIME 10:49 AM

PICK UP: DATE 8/16/19 TIME 10:22 AM

SER. NO. 25325 MODEL Apollo POLE NO.

5 Speed Limit 40

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 8/12/19 took photos the counter & tubes are ok
8/13/19 the counter & tubes are ok
8/14/19 the counter & tubes are ok
8/15/19 the counter & tubes are ok

REPAIR REQUEST _____

SIGNATURE Petrucci & Banett

7-Day (24 Hour) Automated Traffic Recorder Count

Location: CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Monmouth County Traffic Safety Engineering

Site Code: Apollyon

1 E. Main Street, Hall Of Records Annex

Freehold, N.J. 07728

Date Start: 08/09/19

Date End: 08/16/19

(2) 2 of 2 (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 08/05/19	Tue 08/06/19	Wed 08/07/19	Thu 08/08/19	Fri 08/09/19	Average Day	Sat 08/10/19	Sun 08/11/19	Week Average
12:00 AM	*	*	*	*	*	*	146	160	153
01:00	*	*	*	*	*	*	85	99	92
02:00	*	*	*	*	*	*	48	59	54
03:00	*	*	*	*	*	*	34	38	36
04:00	*	*	*	*	*	*	34	30	32
05:00	*	*	*	*	*	*	79	44	62
06:00	*	*	*	*	*	*	209	122	166
07:00	*	*	*	*	*	*	412	242	327
08:00	*	*	*	*	*	*	747	485	616
09:00	*	*	*	*	*	*	802	624	713
10:00	*	*	*	*	*	*	853	809	831
11:00	*	*	*	*	827	827	909	842	859
12:00 PM	*	*	*	*	941	941	819	855	872
01:00	*	*	*	*	854	854	813	717	795
02:00	*	*	*	*	892	892	804	689	795
03:00	*	*	*	*	977	977	847	599	808
04:00	*	*	*	*	998	998	807	532	779
05:00	*	*	*	*	1033	1033	704	523	753
06:00	*	*	*	*	881	881	650	429	653
07:00	*	*	*	*	717	717	535	414	555
08:00	*	*	*	*	486	486	400	339	408
09:00	*	*	*	*	374	374	340	300	338
10:00	*	*	*	*	324	324	295	181	267
11:00	*	*	*	*	292	292	294	113	233
Day Total	0	0	0	0	9596	9596	11666	9245	11197
% Avg. WkDay	0.0%	0.0%	0.0%	0.0%	100.0%				
% Avg. Week	0.0%	0.0%	0.0%	0.0%	85.7%	85.7%	104.2%	82.6%	
AM Peak	-	-	-	-	11:00	11:00	11:00	11:00	11:00
Vol.	-	-	-	-	827	827	909	842	859
PM Peak	-	-	-	-	17:00	17:00	15:00	12:00	12:00
Vol.	-	-	-	-	1033	1033	847	855	872

7-Day (24 Hour) Automated Traffic Recorder Count

Location: CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Monmouth County Traffic Safety Engineering

Site Code: Apollyon

1 E. Main Street, Hall Of Records Annex
 Freehold, N.J. 07728

Date Start: 08/09/19

Date End: 08/16/19

(2) 2 of 2 (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 08/12/19	Tue 08/13/19	Wed 08/14/19	Thu 08/15/19	Fri 08/16/19	Average Day	Sat 08/17/19	Sun 08/18/19	Week Average
12:00 AM	59	60	66	92	89	73	*	*	73
01:00	37	38	43	33	62	43	*	*	43
02:00	16	29	24	27	29	25	*	*	25
03:00	33	26	27	27	33	29	*	*	29
04:00	55	58	43	54	64	55	*	*	55
05:00	161	154	143	148	142	150	*	*	150
06:00	432	433	423	415	393	419	*	*	419
07:00	835	834	842	924	832	853	*	*	853
08:00	1148	1163	1181	1221	1090	1161	*	*	1161
09:00	1057	1140	1022	1081	1063	1073	*	*	1073
10:00	915	856	882	990	*	911	*	*	911
11:00	869	806	844	945	*	866	*	*	866
12:00 PM	885	913	879	1037	*	928	*	*	928
01:00	861	867	918	980	*	906	*	*	906
02:00	888	860	914	891	*	888	*	*	888
03:00	877	1012	948	1034	*	968	*	*	968
04:00	1009	972	984	904	*	967	*	*	967
05:00	1129	1118	1044	1099	*	1098	*	*	1098
06:00	1016	902	999	1109	*	1006	*	*	1006
07:00	695	668	739	786	*	722	*	*	722
08:00	472	364	499	517	*	463	*	*	463
09:00	329	282	367	324	*	326	*	*	326
10:00	233	215	226	281	*	239	*	*	239
11:00	132	126	132	213	*	151	*	*	151
Day Total	14143	13896	14189	15132	3797	14320	0	0	14320
% Avg. WkDay	98.8%	97.0%	99.1%	105.7%	26.5%				
% Avg. Week	98.8%	97.0%	99.1%	105.7%	26.5%	100.0%	0.0%	0.0%	
AM Peak Vol.	08:00 1148	08:00 1163	08:00 1181	08:00 1221	08:00 1090	08:00 1161	-	-	08:00 1161
PM Peak Vol.	17:00 1129	17:00 1118	17:00 1044	18:00 1109	-	17:00 1098	-	-	17:00 1098
Grand Total	14143	13896	14189	15132	13393	23916	11666	9245	25517

ADT ADT 13,221 AADT 13,221

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code: Apollyon

Date Start: 09-Aug-19

Date End: 16-Aug-19

(2) 2 of 2 (C) CR 520 (Newman Springs Road) East Of Knight Street

Location: CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Eastbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
08/16/19	0	73	15	0	1	0	0	0	0	0	0	0	0	0	89
01:00	0	53	6	2	1	0	0	0	0	0	0	0	0	0	62
02:00	0	24	3	0	2	0	0	0	0	0	0	0	0	0	29
03:00	0	31	1	0	1	0	0	0	0	0	0	0	0	0	33
04:00	0	48	15	0	1	0	0	0	0	0	0	0	0	0	64
05:00	1	105	25	1	5	2	0	2	0	0	0	0	0	1	142
06:00	1	261	78	3	32	3	1	4	1	1	0	0	0	8	393
07:00	11	593	133	4	38	7	1	16	0	1	0	2	0	26	832
08:00	19	839	122	5	46	2	1	16	2	0	1	0	0	37	1090
09:00	16	786	148	3	44	6	2	18	0	2	0	0	1	37	1063
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	48	2813	546	18	171	20	5	56	3	4	1	2	1	109	3797
Percent	1.3%	74.1%	14.4%	0.5%	4.5%	0.5%	0.1%	1.5%	0.1%	0.1%	0.0%	0.1%	0.0%	2.9%	
AM Peak	08:00	08:00	09:00	08:00	08:00	07:00	09:00	09:00	08:00	09:00	08:00	07:00	09:00	08:00	
Vol.	19	839	148	5	46	7	2	18	2	2	1	2	1	37	
PM Peak															
Vol.															

Grand Total	1005	71274	12146	410	2881	265	64	851	65	114	25	20	8	2536	91664
Percent	1.1%	77.8%	13.3%	0.4%	3.1%	0.3%	0.1%	0.9%	0.1%	0.1%	0.0%	0.0%	0.0%	2.8%	

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code: Apollyon

Date Start: 09-Aug-19
 Date End: 16-Aug-19

(2) 2 of 2 (S) CR 520 (Newman Springs Road) East Of Knight Street

Location: CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
08/16/19	0	0	0	2	10	30	34	9	2	1	1	0	0	0	89	36-45	64
01:00	0	0	0	1	6	18	23	11	2	1	0	0	0	0	62	36-45	41
02:00	0	0	0	0	2	10	9	4	3	0	1	0	0	0	29	36-45	19
03:00	0	0	3	2	2	5	11	8	2	0	0	0	0	0	33	41-50	19
04:00	0	0	1	2	2	20	26	10	2	1	0	0	0	0	64	36-45	46
05:00	1	0	3	3	7	24	49	38	15	2	0	0	0	0	142	41-50	87
06:00	8	0	3	3	14	89	156	84	30	5	1	0	0	0	393	36-45	245
07:00	25	2	9	19	81	207	297	144	39	9	0	0	0	0	832	36-45	504
08:00	36	1	8	30	107	365	347	164	30	2	0	0	0	0	1090	36-45	712
09:00	35	0	8	33	157	385	306	119	15	4	1	0	0	0	1063	36-45	691
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	105	3	35	95	388	1153	1258	591	140	25	4	0	0	0	3797		
Percent	2.8%	0.1%	0.9%	2.5%	10.2%	30.4%	33.1%	15.6%	3.7%	0.7%	0.1%	0.0%	0.0%	0.0%			
AM Peak	08:00	07:00	07:00	09:00	09:00	09:00	08:00	08:00	07:00	07:00	00:00						08:00
Vol.	36	2	9	33	157	385	347	164	39	9	1						1090
PM Peak																	
Vol.																	
Total	2482	112	685	2534	9654	26172	30298	15288	3838	516	70	11	4	0	91664		
Percent	2.7%	0.1%	0.7%	2.8%	10.5%	28.6%	33.1%	16.7%	4.2%	0.6%	0.1%	0.0%	0.0%	0.0%			

15th Percentile : 34 MPH
 50th Percentile : 40 MPH
 85th Percentile : 46 MPH
 95th Percentile : 49 MPH

Stats
 10 MPH Pace Speed : 36-45 MPH
 Number in Pace : 56470
 Percent in Pace : 61.6%
 Number of Vehicles > 55 MPH : 601
 Percent of Vehicles > 55 MPH : 0.7%
 Mean Speed(Average) : 40 MPH

8

TRAFFIC ENUMERATOR
WORK REPORT

CODE: _____ TOWN Red Bank Borough DATE 8/02/19
LOCATION Munson Place 240 North of CR 520 (Newman Springs Road)
DIRECTION OF ROAD TUBE NO. 1 Northbound

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/02/19 TIME 11:53

PICK UP: DATE 8/16/19 TIME 10:38 AM

SER. NO. 3141 MODEL Apollon POLE NO. _____

No Parking Here to Corner 5160

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: - 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 8/12/19 took photos the counter & tubes are ok 8/13/19
the counter & tubes are ok 8/14/19 the counter & tubes are ok

REPAIR REQUEST _____

SIGNATURE Patrick Bennett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Munson Place
 240' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 08/09/19
 Date End: 08/16/19

(2) (V) Munson Place North Of CR 520 (Newman Springs Road)

Start Time	08/05/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average		
	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	8	2	3	4	6	3
01:00	*	*	*	*	*	*	*	*	*	*	*	2	2	3	0	2	1
02:00	*	*	*	*	*	*	*	*	*	*	*	1	5	0	1	0	3
03:00	*	*	*	*	*	*	*	*	*	*	*	1	0	2	1	2	0
04:00	*	*	*	*	*	*	*	*	*	*	*	2	1	0	2	1	2
05:00	*	*	*	*	*	*	*	*	*	*	*	1	0	1	0	1	0
06:00	*	*	*	*	*	*	*	*	*	*	*	3	0	1	0	2	0
07:00	*	*	*	*	*	*	*	*	*	*	*	13	9	6	8	10	8
08:00	*	*	*	*	*	*	*	*	*	*	*	9	8	1	4	5	6
09:00	*	*	*	*	*	*	*	*	*	*	*	24	15	8	5	16	10
10:00	*	*	*	*	*	*	*	*	*	*	*	10	14	7	6	8	10
11:00	*	*	*	*	*	*	*	*	*	*	*	22	8	5	2	14	5
12:00 PM	*	*	*	*	*	*	*	*	*	11	9	15	4	20	2	15	5
01:00	*	*	*	*	*	*	*	*	*	12	2	7	3	19	6	13	4
02:00	*	*	*	*	*	*	*	*	*	11	5	26	5	16	8	18	6
03:00	*	*	*	*	*	*	*	*	*	36	13	22	8	12	4	23	8
04:00	*	*	*	*	*	*	*	*	*	16	17	8	10	11	7	12	11
05:00	*	*	*	*	*	*	*	*	*	22	18	6	7	5	4	11	10
06:00	*	*	*	*	*	*	*	*	*	16	18	8	12	12	16	12	15
07:00	*	*	*	*	*	*	*	*	*	15	24	11	12	5	4	10	13
08:00	*	*	*	*	*	*	*	*	*	10	10	11	8	8	8	10	9
09:00	*	*	*	*	*	*	*	*	*	5	8	4	8	2	10	4	9
10:00	*	*	*	*	*	*	*	*	*	9	9	2	1	9	7	7	6
11:00	*	*	*	*	*	*	*	*	*	2	13	7	18	5	13	5	15
Lane	0	0	0	0	0	0	0	0	0	165	146	223	160	161	122	207	159
Day	0	0	0	0	0	0	0	0	0	311	311	383	383	283	283	366	366
AM Peak	-	-	-	-	-	-	-	-	-	-	-	09:00	09:00	09:00	07:00	09:00	09:00
Vol.	-	-	-	-	-	-	-	-	-	-	-	24	15	8	8	16	10
PM Peak	-	-	-	-	-	-	-	-	-	15:00	19:00	14:00	23:00	12:00	18:00	15:00	18:00
Vol.	-	-	-	-	-	-	-	-	-	36	24	26	18	20	16	23	15

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Munson Place
 240' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 09-Aug-19
 Date End: 16-Aug-19

(2) (S) Munson Place North Of CR 520 (Newman Springs Road)

Northbd, Southbd

Start Time	1	4	7	10	13	16	19	22	25	28	31	34	37	40	Total	Pace Speed	Number in Pace
08/16/19	4	0	1	2	1	0	0	0	0	0	0	0	0	0	8	1-10	6
01:00	1	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	3	0	0	1	1	0	0	0	0	0	0	0	0	0	5	1-10	3
04:00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	6-15	2
05:00	3	0	2	4	0	0	0	0	0	0	0	0	0	0	9	3-12	7
06:00	3	0	3	6	3	1	0	0	0	0	0	0	0	0	16	7-16	12
07:00	5	0	7	7	9	0	1	1	0	0	0	0	0	0	30	6-15	23
08:00	8	1	3	9	3	1	1	0	0	0	0	0	0	0	26	3-12	16
09:00	10	0	3	5	4	1	0	1	0	0	0	0	0	0	24	1-10	15
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	37	1	19	34	23	3	2	2	0	0	0	0	0	0	121		
Percent	30.6%	0.8%	15.7%	28.1%	19.0%	2.5%	1.7%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	08:00	07:00	08:00	07:00	06:00	07:00	07:00								07:00	
Vol.	10	1	7	9	9	1	1	1							30		
PM Peak																	
Vol.																	
Total	1207	56	364	818	392	109	54	38	28	5	1	0	0	0	3072		
Percent	39.3%	1.6%	11.9%	26.6%	12.0%	3.5%	1.8%	1.2%	0.9%	0.2%	0.0%	0.0%	0.0%	0.0%			

Stats

15th Percentile : 1 MPH
 50th Percentile : 8 MPH
 85th Percentile : 13 MPH
 95th Percentile : 17 MPH

10 MPH Pace Speed : 1-10 MPH
 Number in Pace : 1900
 Percent in Pace : 61.8%
 Number of Vehicles > 55 MPH : 0
 Percent of Vehicles > 55 MPH : 0.0%
 Mean Speed(Average) : 8 MPH

5

TRAFFIC ENUMERATOR
WORK REPORT

CODE: _____ TOWN Tinton Falls Borough DATE 8/10/19
CR 520 (Newman Springs) 280'
LOCATION Road West of CR 51 Chance Avenue

DIRECTION OF ROAD TUBE NO. 1 EAST BOUND - L-5
One Direction

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/10/19 TIME 10:00 AM

PICK UP: DATE 8/14/19 TIME 12:10

SER. NO. 26786 MODEL APX1800 POLE NO. SL 404 ANS

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS 8/12/19 ^{took} Photos + the counter & tube ok. 8/13/19
The counter & tube are ok.

REPAIR REQUEST 8/12/19 Post Down tube
8/14/19 12:15 PM counter stopped working.

SIGNATURE Patrick + Barrett

























Location:CR 520 (Newman Springs Road)
 280' West Of CR 51 (Hance Avenue).
 Municipality:Tinton Falls Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 08/09/19
 Date Enc: 08/14/19

(2) (V) CR520 (Newman Springs Rd) West Of CR 51 (Hance Ave)

Start Time	Mon 08/05/19	Tue 08/06/19	Wed 08/07/19	Thu 08/08/19	Fri 08/09/19	Average Day	Sat 08/10/19	Sun 08/11/19	Week Average		
12:00 AM	*	*	*	*	*	*	166	175	170 		
01:00	*	*	*	*	*	*	89	90	90 		
02:00	*	*	*	*	*	*	55	59	57 		
03:00	*	*	*	*	*	*	33	41	37 		
04:00	*	*	*	*	*	*	32	37	34 		
05:00	*	*	*	*	*	*	80	51	66 		
06:00	*	*	*	*	*	*	228	135	182 		
07:00	*	*	*	*	*	*	483	256	370 		
08:00	*	*	*	*	*	*	816	529	672 		
09:00	*	*	*	*	*	*	933	719	826 		
10:00	*	*	*	*	1058	1058	1034	889	994 		
11:00	*	*	*	*	1007	1007	1065	969	1014 		
12:00 PM	*	*	*	*	1153	1153	1001	1011	1055 		
01:00	*	*	*	*	1073	1073	961	849	961 		
02:00	*	*	*	*	1055	1055	971	763	930 		
03:00	*	*	*	*	1116	1116	942	656	905 		
04:00	*	*	*	*	1198	1198	910	596	901 		
05:00	*	*	*	*	1196	1196	786	556	846 		
06:00	*	*	*	*	1000	1000	711	481	731 		
07:00	*	*	*	*	779	779	537	461	592 		
08:00	*	*	*	*	522	522	445	383	450 		
09:00	*	*	*	*	422	422	388	304	371 		
10:00	*	*	*	*	341	341	339	183	288 		
11:00	*	*	*	*	350	350	338	125	271 		
Day Total	0	0	0	0	12270	12270	13343	10318	12813		
% Avg. WkDay	0.0%	0.0%	0.0%	0.0%	100.0%						
% Avg. Week	0.0%	0.0%	0.0%	0.0%	95.8%	95.8%	104.1%	80.5%			
AM Peak	-	-	-	-	10:00	10:00	-	11:00	11:00	-	-
Vol.	-	-	-	-	1058	1058	-	1065	969	-	-
PM Peak	-	-	-	-	16:00	16:00	-	12:00	12:00	-	-
Vol.	-	-	-	-	1198	1198	-	1001	1011	-	-

Location:CR 520 (Newman Springs Road)
 280' West Of CR 51 (Hance Avenue).
 Municipality:Tinton Falls Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 08/09/19
 Date End: 08/14/19

(2) (V) CR520 (Newman Springs Rd) West Of CR 51 (Hance Ave)

Start Time	Mon 08/12/19	Tue 08/13/19	Wed 08/14/19	Thu 08/15/19	Fri 08/16/19	Average Day	Sat 08/17/19	Sun 08/18/19	Week Average
12:00 AM	68	60	0	*	*	43	*	*	43
01:00	39	47	1	*	*	29	*	*	29
02:00	20	30	2	*	*	17	*	*	17
03:00	32	23	1	*	*	19	*	*	19
04:00	55	56	7	*	*	39	*	*	39
05:00	182	162	16	*	*	120	*	*	120
06:00	539	529	19	*	*	362	*	*	362
07:00	1065	1040	18	*	*	708	*	*	708
08:00	1336	1417	33	*	*	929	*	*	929
09:00	1249	1321	23	*	*	864	*	*	864
10:00	1050	1062	41	*	*	718	*	*	718
11:00	1080	962	63	*	*	702	*	*	702
12:00 PM	1070	1073	*	*	*	1072	*	*	1072
01:00	1064	964	*	*	*	1014	*	*	1014
02:00	1035	281	*	*	*	658	*	*	658
03:00	1084	22	*	*	*	553	*	*	553
04:00	1196	23	*	*	*	610	*	*	610
05:00	1248	17	*	*	*	632	*	*	632
06:00	1204	1	*	*	*	602	*	*	602
07:00	835	6	*	*	*	420	*	*	420
08:00	554	1	*	*	*	278	*	*	278
09:00	365	5	*	*	*	185	*	*	185
10:00	244	1	*	*	*	122	*	*	122
11:00	139	6	*	*	*	72	*	*	72
Day Total	16753	9109	224	0	0	10768	0	0	10768
% Avg. WkDay	155.6%	84.6%	2.1%	0.0%	0.0%				
% Avg. Week	155.6%	84.6%	2.1%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	08:00	08:00	11:00	-	-	08:00	-	-	08:00
Vol.	1336	1417	63	-	-	929	-	-	929
PM Peak	17:00	12:00	-	-	-	12:00	-	-	12:00
Vol.	1248	1073	-	-	-	1072	-	-	1072
Grand Total	16753	9109	224	0	12270	23038	13343	10318	23581
ADT	ADT 12,061	AADT 12,061							

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 280' West Of CR 51 (Hance Avenue).
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 09-Aug-19
 Date End: 14-Aug-19

(2) (S) CR 520 (Newman Springs Road) West Of CR 51 (Hance Avenue)

Eastbd	Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace	
08/14/19		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	
	01:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1	
	02:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8-17	1	
	03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1	
	04:00	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1-10	5	
	05:00	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1-10	11	
	06:00	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	1-10	13	
	07:00	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1-10	12	
	08:00	33	0	0	0	0	0	0	0	0	0	0	0	0	0	33	1-10	22	
	09:00	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23	6-15	15	
	10:00	41	0	0	0	0	0	0	0	0	0	0	0	0	0	41	6-15	27	
	11:00	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63	1-10	42	
	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	224	0	0	0	0	0	0	0	0	0	0	0	0	0	224			
	Percent	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
	AM Peak	11:00															11:00		
	Vol.	63															63		
	PM Peak																		
	Vol.	7895	1687	3292	5921	9908	12214	11088	7134	2399	408	65	5	0	1	62017			
	Percent	12.7%	2.7%	5.3%	9.5%	16.0%	19.7%	17.9%	11.5%	3.9%	0.7%	0.1%	0.0%	0.0%	0.0%				

Stats	15th Percentile :	19 MPH
	50th Percentile :	35 MPH
	85th Percentile :	45 MPH
	95th Percentile :	49 MPH
	10 MPH Pace Speed :	36-45 MPH
	Number in Pace :	23302
	Percent in Pace :	37.6%
	Number of Vehicles > 55 MPH :	479
	Percent of Vehicles > 55 MPH :	0.8%
	Mean Speed(Average) :	34 MPH

9

TRAFFIC ENUMERATOR
WORK REPORT

CODE: CR 51 TOWN Tinton Falls Borough DATE 8/09/19
LOCATION (Hance Avenue) 520' SOUTH OF CR 520 (Newman Springs Road)
DIRECTION OF ROAD TUBE NO. 1 Southbound

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/09/19 TIME 11:35 Am

PICK UP: DATE 8/16/19 TIME 10:08 Am

SER. NO. 25346 MODEL APOLIXON POLE NO. BT 1892

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 8/12/19 took photos the counter & tubes are ok. 8/13/19
the counter & tubes are ok. 8/14/19 the counter & tubes are ok.
8/15/19 the counter & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Patrick Banett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Rd).
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 08/09/19
 Date End: 08/16/19

(2) (V) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Start Time	08/05/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd
12:00 AM	*	*	*	*	*	*	*	*	*	*	58	64	53	53	56	58
01:00	*	*	*	*	*	*	*	*	*	*	26	34	24	41	25	38
02:00	*	*	*	*	*	*	*	*	*	*	17	25	29	24	23	24
03:00	*	*	*	*	*	*	*	*	*	*	15	24	12	10	14	17
04:00	*	*	*	*	*	*	*	*	*	*	11	24	13	14	12	19
05:00	*	*	*	*	*	*	*	*	*	*	19	39	21	21	20	30
06:00	*	*	*	*	*	*	*	*	*	*	90	104	47	47	68	76
07:00	*	*	*	*	*	*	*	*	*	*	149	152	80	92	114	122
08:00	*	*	*	*	*	*	*	*	*	*	253	241	144	179	198	210
09:00	*	*	*	*	*	*	*	*	*	*	292	274	245	238	268	256
10:00	*	*	*	*	*	*	*	*	*	*	384	352	285	291	334	322
11:00	*	*	*	*	*	*	*	*	*	*	402	361	337	303	370	332
12:00 PM	*	*	*	*	*	*	*	*	*	*	457	424	398	363	400	365
01:00	*	*	*	*	*	*	*	*	*	*	431	487	363	332	356	373
02:00	*	*	*	*	*	*	*	*	*	*	432	491	383	345	356	385
03:00	*	*	*	*	*	*	*	*	*	*	485	538	360	415	353	435
04:00	*	*	*	*	*	*	*	*	*	*	560	632	297	420	354	481
05:00	*	*	*	*	*	*	*	*	*	*	511	590	251	386	315	433
06:00	*	*	*	*	*	*	*	*	*	*	320	406	218	325	236	387
07:00	*	*	*	*	*	*	*	*	*	*	219	272	142	265	177	242
08:00	*	*	*	*	*	*	*	*	*	*	169	204	153	204	154	199
09:00	*	*	*	*	*	*	*	*	*	*	139	149	111	167	113	156
10:00	*	*	*	*	*	*	*	*	*	*	115	136	95	115	91	111
11:00	*	*	*	*	*	*	*	*	*	*	117	89	102	86	89	73
Lane	0	0	0	0	0	0	0	0	0	0	3955	4418	4589	5117	4496	5144
Day	0	0	0	0	0	0	0	0	0	0	8373	8373	9706	9706	9640	9640
AM Peak	-	-	-	-	-	-	-	-	-	-	11:00	11:00	11:00	11:00	11:00	11:00
Vol.	-	-	-	-	-	-	-	-	-	-	402	361	337	303	370	332
PM Peak	-	-	-	-	-	-	-	-	-	-	16:00	16:00	12:00	16:00	12:00	16:00
Vol.	-	-	-	-	-	-	-	-	-	-	560	632	398	420	400	481

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Location: CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Rd).
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Date Start: 08/09/19
 Date End: 08/16/19

(2) (V) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Start Time	08/12/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd
12:00 AM	23	22	19	23	29	20	27	21	39	40	*	*	*	*	27	25
01:00	16	17	15	17	9	8	23	14	26	23	*	*	*	*	18	16
02:00	10	12	6	10	7	7	10	14	8	11	*	*	*	*	8	11
03:00	6	19	4	10	7	15	6	6	11	21	*	*	*	*	7	14
04:00	13	55	13	59	14	54	14	51	12	47	*	*	*	*	13	53
05:00	47	145	51	139	56	133	47	133	45	101	*	*	*	*	49	130
06:00	202	323	183	324	212	345	201	295	186	237	*	*	*	*	197	305
07:00	413	462	404	475	420	457	427	484	424	384	*	*	*	*	418	452
08:00	538	516	580	565	550	552	554	591	536	471	*	*	*	*	552	539
09:00	483	498	473	511	451	520	476	489	454	466	*	*	*	*	467	497
10:00	375	459	383	417	341	430	417	404	*	*	*	*	*	*	379	428
11:00	377	408	366	415	364	400	395	437	*	*	*	*	*	*	376	415
12:00 PM	394	426	422	453	429	463	451	480	*	*	*	*	*	*	424	456
01:00	413	452	391	412	372	468	412	488	*	*	*	*	*	*	397	455
02:00	352	482	387	412	376	471	370	470	*	*	*	*	*	*	371	459
03:00	449	540	400	514	430	522	411	574	*	*	*	*	*	*	422	538
04:00	440	582	452	549	482	616	461	575	*	*	*	*	*	*	459	580
05:00	543	589	529	544	494	534	628	582	*	*	*	*	*	*	548	562
06:00	436	431	417	425	424	454	577	454	*	*	*	*	*	*	464	441
07:00	287	325	251	324	338	296	319	333	*	*	*	*	*	*	299	320
08:00	180	257	152	170	203	249	188	222	*	*	*	*	*	*	181	224
09:00	113	141	119	117	130	199	135	154	*	*	*	*	*	*	124	153
10:00	70	88	66	79	78	93	108	88	*	*	*	*	*	*	80	87
11:00	38	51	39	41	60	56	83	58	*	*	*	*	*	*	55	52
Lane Day	6218	7300	6122	7005	6276	7362	6740	7417	1741	1801	0	0	0	0	6335	7212
AM Peak	08:00	08:00	08:00	08:00	08:00	08:00	08:00	08:00	08:00	08:00	-	-	-	-	08:00	08:00
Vol.	538	516	580	565	550	552	554	591	536	471	-	-	-	-	552	539
PM Peak	17:00	17:00	17:00	16:00	17:00	16:00	17:00	17:00	-	-	-	-	-	-	17:00	16:00
Vol.	543	589	529	549	494	616	628	582	-	-	-	-	-	-	548	580

Comb. Total 13518 13127 13638 14157 11915 9706 7831 23187

ADT ADT 12,201 AADT 12,201

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Rd.)
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 09-Aug-19
 Date End: 16-Aug-19

(2) (C) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Southbd, Northbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
08/16/19	0	65	10	0	3	0	0	0	0	0	0	0	0	1	79
01:00	0	40	8	0	1	0	0	0	0	0	0	0	0	0	49
02:00	0	12	7	0	0	0	0	0	0	0	0	0	0	0	19
03:00	0	23	6	1	1	0	0	0	0	0	0	0	0	1	32
04:00	0	45	12	0	2	0	0	0	0	0	0	0	0	0	59
05:00	2	111	19	0	6	2	0	1	0	0	0	0	0	5	146
06:00	0	325	67	1	17	2	0	1	1	0	0	0	0	9	423
07:00	7	629	104	6	22	4	0	4	0	0	0	0	0	32	808
08:00	4	787	91	6	36	5	0	7	0	0	0	0	0	71	1007
09:00	3	690	114	7	30	6	0	6	0	0	0	0	0	64	920
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	16	2727	438	21	118	19	0	19	1	0	0	0	0	183	3542
Percent	0.5%	77.0%	12.4%	0.6%	3.3%	0.5%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	5.2%	
AM Peak	07:00	08:00	09:00	09:00	08:00	09:00		08:00	06:00					08:00	
Vol.	7	787	114	7	36	6		7	1					71	

PM Peak Vol.

Grand Total	536	64672	10495	193	2384	364	31	219	45	2	0	0	0	4951	83892
Percent	0.6%	77.1%	12.5%	0.2%	2.8%	0.4%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	5.9%	

Location:CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Rd).
 Municipality:Tinton Falls Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 09-Aug-19
 Date End: 16-Aug-19

(2) (S) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Southbd, Northbd	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
08/16/19	1	0	0	7	30	34	5	2	0	0	0	0	0	0	79	31-40	64
01:00	0	0	0	5	12	24	8	0	0	0	0	0	0	0	49	31-40	36
02:00	0	0	0	1	4	9	5	0	0	0	0	0	0	0	19	34-43	14
03:00	1	1	0	3	10	7	5	4	1	0	0	0	0	0	32	31-40	17
04:00	0	0	0	0	14	23	17	4	1	0	0	0	0	0	59	36-45	40
05:00	5	1	4	8	31	67	22	7	1	0	0	0	0	0	146	31-40	98
06:00	9	3	2	23	126	176	68	15	1	0	0	0	0	0	423	31-40	302
07:00	33	0	11	80	294	305	77	8	0	0	0	0	0	0	808	31-40	599
08:00	81	14	34	127	346	333	70	2	0	0	0	0	0	0	1007	31-40	679
09:00	82	30	41	99	323	264	74	6	1	0	0	0	0	0	920	31-40	587
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	212	49	92	353	1190	1242	351	48	5	0	0	0	0	0	3542		
Percent	6.0%	1.4%	2.6%	10.0%	33.6%	35.1%	9.9%	1.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	09:00	09:00	08:00	08:00	08:00	07:00	06:00	08:00	03:00					08:00		
Vol.	82	30	41	127	346	333	77	15	1						1007		
PM Peak																	
Vol.	6497	1970	3186	9398	27084	27705	7193	769	76	7	4	0	0	3	83892		
Percent	7.7%	2.3%	3.6%	11.2%	32.3%	33.0%	8.6%	0.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile :	25 MPH
50th Percentile :	33 MPH
85th Percentile :	39 MPH
95th Percentile :	42 MPH
Stats	
10 MPH Pace Speed :	31-40 MPH
Number in Pace :	54789
Percent in Pace :	65.3%
Number of Vehicles > 55 MPH :	14
Percent of Vehicles > 55 MPH :	0.0%
Mean Speed(Average) :	32 MPH

TRAFFIC ENUMERATOR
WORK REPORT

CODE _____ TOWN Red Bank Broughton DATE 8/10/19
LOCATION C.R. 520 (Newman Springs Road) 536' EAST OF KNIGHT Street.

DIRECTION OF ROAD TUBE NO. 1 West Bound L-5
ONE Direction

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 8/10/19 TIME 11:12 AM

PICK UP: DATE 8/14/19 TIME 12:31 PM

SER. NO. 28875 MODEL APOLLO POLE NO. _____

No Stopping
or
standing
SIGN

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 8/12/19 took photos THE counters & tubes are ok.
8/14/19 counter stopped working 12:31 P.M.

REPAIR REQUEST _____

SIGNATURE Patrick Barnett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 08/09/19
 Date End: 08/14/19

(2) (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 08/05/19	Tue 08/06/19	Wed 08/07/19	Thu 08/08/19	Fri 08/09/19	Average Day	Sat 08/10/19	Sun 08/11/19	Week Average
12:00 AM	*	*	*	*	*	*	147	212	180
01:00	*	*	*	*	*	*	68	129	98
02:00	*	*	*	*	*	*	84	77	80
03:00	*	*	*	*	*	*	50	45	48
04:00	*	*	*	*	*	*	47	38	42
05:00	*	*	*	*	*	*	100	69	84
06:00	*	*	*	*	*	*	198	148	173
07:00	*	*	*	*	*	*	354	235	294
08:00	*	*	*	*	*	*	477	332	404
09:00	*	*	*	*	*	*	587	467	527
10:00	*	*	*	*	*	*	693	578	636
11:00	*	*	*	*	*	*	753	666	710
12:00 PM	*	*	*	*	906	906	749	685	780
01:00	*	*	*	*	867	867	720	717	768
02:00	*	*	*	*	992	992	753	778	841
03:00	*	*	*	*	1211	1211	942	832	995
04:00	*	*	*	*	1213	1213	866	866	982
05:00	*	*	*	*	1160	1160	952	757	956
06:00	*	*	*	*	886	886	870	819	858
07:00	*	*	*	*	645	645	693	453	597
08:00	*	*	*	*	551	551	662	478	564
09:00	*	*	*	*	477	477	578	382	479
10:00	*	*	*	*	382	382	446	220	349
11:00	*	*	*	*	285	285	347	147	260
Day Total	0	0	0	0	9575	9575	12136	10130	11705
% Avg. WkDay	0.0%	0.0%	0.0%	0.0%	100.0%				
% Avg. Week	0.0%	0.0%	0.0%	0.0%	81.8%	81.8%	103.7%	86.5%	
AM Peak	-	-	-	-	-	-	11:00	11:00	-
Vol.	-	-	-	-	-	-	753	666	710
PM Peak	-	-	-	-	16:00	16:00	17:00	16:00	-
Vol.	-	-	-	-	1213	1213	952	866	995

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 08/09/19

Date End: 08/14/19

(2) (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 08/12/19	Tue 08/13/19	Wed 08/14/19	Thu 08/15/19	Fri 08/16/19	Average Day	Sat 08/17/19	Sun 08/18/19	Week Average
12:00 AM	73	66	0	*	*	46	*	*	46
01:00	41	22	0	*	*	21	*	*	21
02:00	27	26	0	*	*	18	*	*	18
03:00	39	36	0	*	*	25	*	*	25
04:00	118	105	0	*	*	74	*	*	74
05:00	283	282	0	*	*	188	*	*	188
06:00	546	562	1	*	*	370	*	*	370
07:00	816	820	1	*	*	546	*	*	546
08:00	941	937	1	*	*	626	*	*	626
09:00	834	792	0	*	*	542	*	*	542
10:00	737	760	1	*	*	499	*	*	499
11:00	788	747	9	*	*	515	*	*	515
12:00 PM	821	144	*	*	*	482	*	*	482
01:00	830	63	*	*	*	446	*	*	446
02:00	851	76	*	*	*	464	*	*	464
03:00	1185	12	*	*	*	598	*	*	598
04:00	1291	10	*	*	*	650	*	*	650
05:00	1255	2	*	*	*	628	*	*	628
06:00	979	2	*	*	*	490	*	*	490
07:00	747	0	*	*	*	374	*	*	374
08:00	578	0	*	*	*	289	*	*	289
09:00	381	0	*	*	*	190	*	*	190
10:00	238	0	*	*	*	119	*	*	119
11:00	133	0	*	*	*	66	*	*	66
Day Total	14532	5464	13	0	0	8266	0	0	8266
% Avg. WkDay	175.8%	66.1%	0.2%	0.0%	0.0%				
% Avg. Week	175.8%	66.1%	0.2%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	08:00	08:00	11:00	-	-	08:00	-	-	08:00
Vol.	941	937	9	-	-	626	-	-	626
PM Peak	16:00	12:00	-	-	-	16:00	-	-	16:00
Vol.	1291	144	-	-	-	650	-	-	650
Grand Total	14532	5464	13	0	9575	17841	12136	10130	19971
ADT	ADT 10,370		AADT 10,370						

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 09-Aug-19
 Date End: 14-Aug-19

(2) (C) CR 520 (Newman Springs Road) East Of Knight Street

Westbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
08/14/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
11:00	0	0	0	0	1	0	0	0	0	0	0	0	0	8	9
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	0	0	1	0	0	0	0	0	0	0	0	12	13
Percent	0.0%	0.0%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	92.3%	
AM Peak					11:00									11:00	
Vol.					1									8	

PM Peak Vol	Grand Total	Percent
184	30949	7312
0.4%	59.7%	14.1%
230	1746	37
0.4%	3.4%	0.1%
6	279	21
0.0%	0.5%	0.0%
279	16	4
0.5%	0.0%	0.0%
21	3	0
0.0%	0.0%	0.0%
16	0	11063
0.0%	0.0%	21.3%
4	3	0
0.0%	0.0%	0
0.0%	0.0%	11063
0.0%	0.0%	51850

Location:CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 09-Aug-19
 Date End: 14-Aug-19

(2) (S) CR 520 (Newman Springs Road) East Of Knight Street

Westbd	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
08/14/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
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	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
07:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
08:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
10:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
11:00	8	0	1	0	0	0	0	0	0	0	0	0	0	0	9	6-15	5
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	12	0	1	0	0	0	0	0	0	0	0	0	0	0	13		
Percent	92.3%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00		11:00														
Vol.	8		1														
PM Peak																	
Vol.																	
Total	11087	33	126	365	1386	6338	14999	12388	4156	789	151	25	2	5	51850		
Percent	21.4%	0.1%	0.2%	0.7%	2.7%	12.2%	28.9%	23.9%	8.0%	1.5%	0.3%	0.0%	0.0%	0.0%			

Stats

15th Percentile : 10 MPH
 50th Percentile : 42 MPH
 85th Percentile : 48 MPH
 95th Percentile : 53 MPH

10 MPH Pace Speed : 41-50 MPH
 Number in Pace : 27387
 Percent in Pace : 52.8%
 Number of Vehicles > 55 MPH : 972
 Percent of Vehicles > 55 MPH : 1.9%
 Mean Speed(Average) : 37 MPH

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Road) File Name : CR 520 (Newman Springs Road) & CR 51 (Hance Ave)
CR 51 (Hance Ave) & Munson Pl. Site Code : 52051619
Municipality: Red Bank Borough Start Date : 5/16/2019
Counted By: Patrick T Barrett Page No : 1

Groups Printed- Passenger Cars - Single Unit Trucks - Heavy Vehicles

Start Time	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West			Int. Total
	Right	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	App. Total	
Factor	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0		
07:00 AM	1	0	1	0	175	16	0	191	23	5	122	0	150	72	182	254	596
07:15 AM	5	0	5	1	214	21	0	236	20	0	109	0	129	109	245	354	724
07:30 AM	4	0	4	0	191	11	0	202	35	1	139	0	175	119	242	361	742
07:45 AM	1	0	1	1	265	15	0	281	39	0	127	0	166	180	299	479	927
Total	11	0	11	2	845	63	0	910	117	6	497	0	620	480	968	1448	2989
08:00 AM	2	0	2	0	209	21	0	230	25	2	150	0	177	153	250	403	812
08:15 AM	3	0	3	2	217	18	0	237	23	0	103	0	126	149	300	449	815
08:30 AM	6	0	6	2	195	16	0	213	29	0	129	0	158	137	283	420	797
08:45 AM	2	0	2	2	186	24	0	212	22	0	116	0	138	138	266	404	756
Total	13	0	13	6	807	79	0	892	99	2	498	0	599	577	1099	1676	3180
*** BREAK ***																	
11:00 AM	2	0	2	0	169	16	0	185	10	1	75	0	86	68	180	248	521
11:15 AM	2	0	2	1	179	20	0	200	14	0	80	0	94	77	220	297	593
11:30 AM	1	0	1	0	183	25	0	208	19	2	89	1	111	84	209	293	613
11:45 AM	1	0	1	1	182	21	0	204	28	1	86	0	115	78	221	299	619
Total	6	0	6	2	713	82	0	797	71	4	330	1	406	307	830	1137	2346
12:00 PM	2	0	2	1	178	18	0	197	24	1	79	0	104	88	205	293	596
12:15 PM	2	0	2	0	184	18	0	202	26	0	108	0	134	109	224	333	671
12:30 PM	2	0	2	1	207	19	0	227	31	0	76	0	107	93	218	311	647
12:45 PM	0	0	0	2	193	14	0	209	43	1	125	0	169	93	222	315	693
Total	6	0	6	4	762	69	0	835	124	2	388	0	514	383	869	1252	2607
01:00 PM	4	0	4	0	203	14	0	217	17	0	83	0	100	74	200	274	595
01:15 PM	5	0	5	0	200	25	0	225	17	0	90	1	108	90	200	290	628
01:30 PM	0	0	0	0	204	20	0	224	24	2	99	0	125	65	219	284	633
01:45 PM	2	0	2	2	194	14	0	210	26	0	102	0	128	69	234	303	643
Total	11	0	11	2	801	73	0	876	84	2	374	1	461	298	853	1151	2499
*** BREAK ***																	
03:00 PM	2	0	2	2	239	18	0	259	30	2	123	0	155	85	263	348	764
03:15 PM	13	0	13	4	265	30	0	299	30	3	105	0	138	75	200	275	725
03:30 PM	9	0	9	3	295	27	0	325	27	0	134	0	161	103	231	334	829
03:45 PM	2	0	2	1	243	22	0	266	33	2	114	0	149	105	239	344	761
Total	26	0	26	10	1042	97	0	1149	120	7	476	0	603	368	933	1301	3079
04:00 PM	6	0	6	1	259	33	0	293	15	2	129	0	146	97	212	309	754
04:15 PM	11	0	11	1	284	24	0	309	31	4	114	0	149	95	268	363	832
04:30 PM	1	1	2	0	224	41	0	265	19	0	155	0	174	92	246	338	779
04:45 PM	2	0	2	2	243	42	0	287	22	0	116	1	139	114	261	375	803
Total	20	1	21	4	1010	140	0	1154	87	6	514	1	608	398	987	1385	3168
05:00 PM	1	0	1	2	257	29	0	288	12	0	155	0	167	121	251	372	828
05:15 PM	0	0	0	1	228	26	0	255	6	0	105	1	112	139	232	371	738
05:30 PM	2	0	2	1	244	23	0	268	14	3	150	0	167	140	271	411	848
05:45 PM	1	0	1	1	205	22	0	228	30	1	83	0	114	115	331	446	789
Total	4	0	4	5	934	100	0	1039	62	4	493	1	560	515	1085	1600	3203
Grand Total	97	1	98	35	6914	703	0	7652	764	33	3570	4	4371	3326	7624	10950	23071
Apprch %	99	1		0.5	90.4	9.2	0		17.5	0.8	81.7	0.1		30.4	69.6		
Total %	0.4	0	0.4	0.2	30	3	0	33.2	3.3	0.1	15.5	0	18.9	14.4	33	47.5	
Passenger Cars	85	1	86	25	6685	662	0	7372	711	31	3510	4	4256	3251	7404	10655	22369
% Passenger Cars	87.6	100	87.8	71.4	96.7	94.2	0	96.3	93.1	93.9	98.3	100	97.4	97.7	97.1	97.3	97

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Road) File Name : CR 520 (Newman Springs Road) & CR 51 (Hance Ave)
CR 51 (Hance Ave) & Munson Pl Site Code : 52051619
Municipality: Red Bank Borough Start Date : 5/16/2019
Counted By: Patrick T Barrett Page No : 1

Groups Printed- Passenger Cars

Start Time	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West			Int. Total
	Right	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	App. Total	
Factor	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0		
07:00 AM	0	0	0	0	166	15	0	181	21	5	120	0	146	69	175	244	571
07:15 AM	4	0	4	0	202	19	0	221	19	0	103	0	122	107	232	339	686
07:30 AM	4	0	4	0	178	10	0	188	32	1	137	0	170	117	232	349	711
07:45 AM	1	0	1	0	253	15	0	268	37	0	125	0	162	177	292	469	900
Total	9	0	9	0	799	59	0	858	109	6	485	0	600	470	931	1401	2868
08:00 AM	2	0	2	0	199	19	0	218	22	1	146	0	169	149	234	383	772
08:15 AM	2	0	2	1	210	18	0	229	20	0	100	0	120	146	288	434	785
08:30 AM	5	0	5	0	190	13	0	203	24	0	123	0	147	134	278	412	767
08:45 AM	1	0	1	2	175	22	0	199	19	0	113	0	132	134	257	391	723
Total	10	0	10	3	774	72	0	849	85	1	482	0	568	563	1057	1620	3047
*** BREAK ***																	
11:00 AM	1	0	1	0	162	14	0	176	10	1	73	0	84	66	173	239	500
11:15 AM	2	0	2	1	169	19	0	189	14	0	78	0	92	76	207	283	566
11:30 AM	1	0	1	0	179	21	0	200	18	2	89	1	110	81	197	278	589
11:45 AM	1	0	1	1	173	20	0	194	25	1	86	0	112	77	216	293	600
Total	5	0	5	2	683	74	0	759	67	4	326	1	398	300	793	1093	2255
12:00 PM	1	0	1	1	172	18	0	191	23	1	79	0	103	87	201	288	583
12:15 PM	2	0	2	0	179	18	0	197	25	0	108	0	133	109	218	327	659
12:30 PM	2	0	2	1	205	16	0	222	30	0	76	0	106	91	214	305	635
12:45 PM	0	0	0	1	182	14	0	197	43	1	124	0	168	91	216	307	672
Total	5	0	5	3	738	66	0	807	121	2	387	0	510	378	849	1227	2549
01:00 PM	3	0	3	0	201	13	0	214	15	0	79	0	94	72	188	260	571
01:15 PM	5	0	5	0	192	23	0	215	13	0	85	1	99	87	193	280	599
01:30 PM	0	0	0	0	197	18	0	215	23	2	97	0	122	61	214	275	612
01:45 PM	2	0	2	2	185	14	0	201	22	0	99	0	121	68	225	293	617
Total	10	0	10	2	775	68	0	845	73	2	360	1	436	288	820	1108	2399
*** BREAK ***																	
03:00 PM	2	0	2	1	230	14	0	245	29	2	120	0	151	78	250	328	726
03:15 PM	11	0	11	3	259	28	0	290	25	2	104	0	131	68	191	259	691
03:30 PM	9	0	9	1	285	24	0	310	23	0	134	0	157	97	226	323	799
03:45 PM	2	0	2	1	234	19	0	254	33	2	110	0	145	104	235	339	740
Total	24	0	24	6	1008	85	0	1099	110	6	468	0	584	347	902	1249	2956
04:00 PM	6	0	6	1	254	33	0	288	15	2	127	0	144	95	207	302	740
04:15 PM	10	0	10	1	279	23	0	303	30	4	113	0	147	95	265	360	820
04:30 PM	1	1	2	0	220	40	0	260	17	0	154	0	171	91	244	335	768
04:45 PM	2	0	2	2	237	42	0	281	22	0	116	1	139	113	258	371	793
Total	19	1	20	4	990	138	0	1132	84	6	510	1	601	394	974	1368	3121
05:00 PM	1	0	1	2	252	29	0	283	12	0	154	0	166	119	249	368	818
05:15 PM	0	0	0	1	227	26	0	254	6	0	105	1	112	138	228	366	732
05:30 PM	2	0	2	1	240	23	0	264	14	3	150	0	167	139	271	410	843
05:45 PM	0	0	0	1	199	22	0	222	30	1	83	0	114	115	330	445	781
Total	3	0	3	5	918	100	0	1023	62	4	492	1	559	511	1078	1589	3174
Grand Total	85	1	86	25	6685	662	0	7372	711	31	3510	4	4256	3251	7404	10655	22369
Apprch %	98.8	1.2		0.3	90.7	9	0		16.7	0.7	82.5	0.1		30.5	69.5		
Total %	0.4	0	0.4	0.1	29.9	3	0	33	3.2	0.1	15.7	0	19	14.5	33.1	47.6	

**8 Hour Manual Intersection Movement Count
 Monmouth County Traffic Safety Engineering
 1 E. Main Street, Hall Of Records Annex
 Freehold, N.J. 07728**

CR 520 (Newman Springs Road) File Name : CR 520 (Newman Springs Road) & CR 51 (Hance Ave)
 CR 51 (Hance Ave) & Munson Pl Site Code : 52051619
 Municipality: Red Bank Borough Start Date : 5/16/2019
 Counted By: Patrick T Barrett Page No : 1

Groups Printed- Single Unit Trucks

Start Time	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West			Int. Total
	Right	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	App. Total	
Factor	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0		
07:00 AM	1	0	1	0	4	0	0	4	0	0	2	0	2	3	3	6	13
07:15 AM	1	0	1	0	5	0	0	5	0	0	3	0	3	1	4	5	14
07:30 AM	0	0	0	0	3	0	0	3	2	0	2	0	4	1	2	3	10
07:45 AM	0	0	0	0	6	0	0	6	1	0	1	0	2	1	3	4	12
Total	2	0	2	0	18	0	0	18	3	0	8	0	11	6	12	18	49
08:00 AM	0	0	0	0	4	1	0	5	1	0	2	0	3	2	8	10	18
08:15 AM	1	0	1	1	5	0	0	6	1	0	2	0	3	1	7	8	18
08:30 AM	0	0	0	0	3	1	0	4	3	0	4	0	7	3	2	5	16
08:45 AM	0	0	0	0	4	0	0	4	2	0	0	0	2	1	5	6	12
Total	1	0	1	1	16	2	0	19	7	0	8	0	15	7	22	29	64
*** BREAK ***																	
11:00 AM	1	0	1	0	5	2	0	7	0	0	1	0	1	0	4	4	13
11:15 AM	0	0	0	0	4	1	0	5	0	0	2	0	2	1	6	7	14
11:30 AM	0	0	0	0	1	1	0	2	0	0	0	0	0	1	6	7	9
11:45 AM	0	0	0	0	3	1	0	4	3	0	0	0	3	0	1	1	8
Total	1	0	1	0	13	5	0	18	3	0	3	0	6	2	17	19	44
12:00 PM	1	0	1	0	3	0	0	3	1	0	0	0	1	1	2	3	8
12:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	4	6
12:30 PM	0	0	0	0	1	1	0	2	0	0	0	0	0	1	3	4	6
12:45 PM	0	0	0	1	4	0	0	5	0	0	1	0	1	0	3	3	9
Total	1	0	1	1	10	1	0	12	1	0	1	0	2	2	12	14	29
01:00 PM	1	0	1	0	2	0	0	2	2	0	1	0	3	0	5	5	11
01:15 PM	0	0	0	0	3	1	0	4	2	0	4	0	6	1	3	4	14
01:30 PM	0	0	0	0	2	1	0	3	0	0	1	0	1	3	2	5	9
01:45 PM	0	0	0	0	5	0	0	5	1	0	2	0	3	1	5	6	14
Total	1	0	1	0	12	2	0	14	5	0	8	0	13	5	15	20	48
*** BREAK ***																	
03:00 PM	0	0	0	1	6	2	0	9	1	0	1	0	2	2	6	8	19
03:15 PM	1	0	1	0	2	1	0	3	3	0	1	0	4	2	5	7	15
03:30 PM	0	0	0	1	5	0	0	6	1	0	0	0	1	2	3	5	12
03:45 PM	0	0	0	0	5	2	0	7	0	0	0	0	0	1	2	3	10
Total	1	0	1	2	18	5	0	25	5	0	2	0	7	7	16	23	56
04:00 PM	0	0	0	0	3	0	0	3	0	0	1	0	1	1	4	5	9
04:15 PM	0	0	0	0	1	1	0	2	1	0	0	0	1	0	1	1	4
04:30 PM	0	0	0	0	3	0	0	3	1	0	1	0	2	0	1	1	6
04:45 PM	0	0	0	0	5	0	0	5	0	0	0	0	0	0	2	2	7
Total	0	0	0	0	12	1	0	13	2	0	2	0	4	1	8	9	26
05:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2	4	5
05:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	4	5
05:30 PM	0	0	0	0	4	0	0	4	0	0	0	0	0	1	0	1	5
05:45 PM	1	0	1	0	3	0	0	3	0	0	0	0	0	0	0	0	4
Total	1	0	1	0	8	0	0	8	0	0	1	0	1	3	6	9	19
Grand Total	8	0	8	4	107	16	0	127	26	0	33	0	59	33	108	141	335
Apprch %	100	0		3.1	84.3	12.6	0		44.1	0	55.9	0		23.4	76.6		
Total %	2.4	0	2.4	1.2	31.9	4.8	0	37.9	7.8	0	9.9	0	17.6	9.9	32.2	42.1	

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Road) File Name : CR 520 (Newman Springs Road) & CR 51 (Hance Ave)
 CR 51 (Hance Ave) & Munson Pl Site Code : 52051619
 Municipality: Red Bank Borough Start Date : 5/16/2019
 Counted By: Patrick T Barrett Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Munson Place From North			CR 520 (Newman Springs Road) From East					CR 51 (Hance Avenue) From South					CR 520 (Newman Springs Road) From West			Int. Total
	Right	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	App. Total	
Factor	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0		
07:00 AM	0	0	0	0	5	1	0	6	2	0	0	0	2	0	4	4	12
07:15 AM	0	0	0	1	7	2	0	10	1	0	3	0	4	1	9	10	24
07:30 AM	0	0	0	0	10	1	0	11	1	0	0	0	1	1	8	9	21
07:45 AM	0	0	0	1	6	0	0	7	1	0	1	0	2	2	4	6	15
Total	0	0	0	2	28	4	0	34	5	0	4	0	9	4	25	29	72
08:00 AM	0	0	0	0	6	1	0	7	2	1	2	0	5	2	8	10	22
08:15 AM	0	0	0	0	2	0	0	2	2	0	1	0	3	2	5	7	12
08:30 AM	1	0	1	2	2	2	0	6	2	0	2	0	4	0	3	3	14
08:45 AM	1	0	1	0	7	2	0	9	1	0	3	0	4	3	4	7	21
Total	2	0	2	2	17	5	0	24	7	1	8	0	16	7	20	27	69
*** BREAK ***																	
11:00 AM	0	0	0	0	2	0	0	2	0	0	1	0	1	2	3	5	8
11:15 AM	0	0	0	0	6	0	0	6	0	0	0	0	0	0	7	7	13
11:30 AM	0	0	0	0	3	3	0	6	1	0	0	0	1	2	6	8	15
11:45 AM	0	0	0	0	6	0	0	6	0	0	0	0	0	1	4	5	11
Total	0	0	0	0	17	3	0	20	1	0	1	0	2	5	20	25	47
12:00 PM	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	2	5
12:15 PM	0	0	0	0	3	0	0	3	1	0	0	0	1	0	2	2	6
12:30 PM	0	0	0	0	1	2	0	3	1	0	0	0	1	1	1	2	6
12:45 PM	0	0	0	0	7	0	0	7	0	0	0	0	0	2	3	5	12
Total	0	0	0	0	14	2	0	16	2	0	0	0	2	3	8	11	29
01:00 PM	0	0	0	0	0	1	0	1	0	0	3	0	3	2	7	9	13
01:15 PM	0	0	0	0	5	1	0	6	2	0	1	0	3	2	4	6	15
01:30 PM	0	0	0	0	5	1	0	6	1	0	1	0	2	1	3	4	12
01:45 PM	0	0	0	0	4	0	0	4	3	0	1	0	4	0	4	4	12
Total	0	0	0	0	14	3	0	17	6	0	6	0	12	5	18	23	52
*** BREAK ***																	
03:00 PM	0	0	0	0	3	2	0	5	0	0	2	0	2	5	7	12	19
03:15 PM	1	0	1	1	4	1	0	6	2	1	0	0	3	5	4	9	19
03:30 PM	0	0	0	1	5	3	0	9	3	0	0	0	3	4	2	6	18
03:45 PM	0	0	0	0	4	1	0	5	0	0	4	0	4	0	2	2	11
Total	1	0	1	2	16	7	0	25	5	1	6	0	12	14	15	29	67
04:00 PM	0	0	0	0	2	0	0	2	0	0	1	0	1	1	1	2	5
04:15 PM	1	0	1	0	4	0	0	4	0	0	1	0	1	0	2	2	8
04:30 PM	0	0	0	0	1	1	0	2	1	0	0	0	1	1	1	2	5
04:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	2	3
Total	1	0	1	0	8	1	0	9	1	0	2	0	3	3	5	8	21
05:00 PM	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	5
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
*** BREAK ***																	
05:45 PM	0	0	0	0	3	0	0	3	0	0	0	0	0	0	1	1	4
Total	0	0	0	0	8	0	0	8	0	0	0	0	0	1	1	2	10
Grand Total	4	0	4	6	122	25	0	153	27	2	27	0	56	42	112	154	367
Apprch %	100	0		3.9	79.7	16.3	0		48.2	3.6	48.2	0		27.3	72.7		
Total %	1.1	0	1.1	1.6	33.2	6.8	0	41.7	7.4	0.5	7.4	0	15.3	11.4	30.5	42	

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Road)
At Knight Street.
Municipality: Red Bank Borough
Counted By: Patrick T Barrett

File Name : CR 520 (Newman Springs Road) At Knight Street
Site Code : 52052119
Start Date : 5/21/2019
Page No : 1

Groups Printed- Passenger Cars - Single Unit Trucks - Heavy Vehicles

Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	2	10	0	12	8	189	0	197	0	0	195	2	0	197	406
07:15 AM	0	7	0	7	0	241	0	241	0	0	269	5	0	274	522
07:30 AM	6	4	0	10	5	273	0	278	0	0	295	2	0	297	585
07:45 AM	1	5	0	6	3	258	0	261	0	0	321	4	0	325	592
Total	9	26	0	35	16	961	0	977	0	0	1080	13	0	1093	2105
08:00 AM	2	8	0	10	6	298	0	304	0	0	312	5	0	317	631
08:15 AM	3	2	0	5	8	286	0	294	0	0	304	1	0	305	604
08:30 AM	3	7	0	10	4	243	0	247	0	0	330	7	0	337	594
08:45 AM	2	3	0	5	2	220	0	222	0	0	395	1	0	396	623
Total	10	20	0	30	20	1047	0	1067	0	0	1341	14	0	1355	2452

*** BREAK ***

11:00 AM	0	5	0	5	1	183	0	184	0	0	202	2	0	204	393
11:15 AM	4	4	0	8	2	200	0	202	0	0	215	5	0	220	430
11:30 AM	2	2	0	4	2	195	0	197	0	0	219	0	0	219	420
11:45 AM	2	4	0	6	3	203	0	206	0	0	236	4	0	240	452
Total	8	15	0	23	8	781	0	789	0	0	872	11	0	883	1695
12:00 PM	0	3	0	3	0	177	0	177	0	0	219	1	0	220	400
12:15 PM	2	3	0	5	4	214	0	218	0	0	225	4	0	229	452
12:30 PM	1	6	1	8	6	198	0	204	0	0	201	1	0	202	414
12:45 PM	1	3	0	4	3	184	0	187	0	0	255	1	0	256	447
Total	4	15	1	20	13	773	0	786	0	0	900	7	0	907	1713
01:00 PM	3	6	0	9	2	193	0	195	0	0	211	4	0	215	419
01:15 PM	0	4	0	4	3	219	0	222	0	0	245	3	0	248	474
01:30 PM	2	4	0	6	5	220	0	225	0	0	249	2	0	251	482
01:45 PM	2	2	0	4	4	221	0	225	0	0	239	1	0	240	469
Total	7	16	0	23	14	853	0	867	0	0	944	10	0	954	1844

*** BREAK ***

03:00 PM	1	8	0	9	9	280	2	291	0	0	248	7	0	255	555
03:15 PM	1	6	0	7	5	281	0	286	0	0	248	2	0	250	543
03:30 PM	1	4	0	5	4	283	0	287	0	0	295	0	0	295	587
03:45 PM	3	4	0	7	3	300	0	303	0	0	304	1	0	305	615
Total	6	22	0	28	21	1144	2	1167	0	0	1095	10	0	1105	2300
04:00 PM	7	8	0	15	9	320	1	330	0	0	284	4	0	288	633
04:15 PM	1	5	0	6	8	366	0	374	0	0	277	2	0	279	659
04:30 PM	1	5	0	6	3	316	0	319	0	0	254	3	0	257	582
04:45 PM	3	2	0	5	2	289	0	291	0	0	245	6	0	251	547
Total	12	20	0	32	22	1291	1	1314	0	0	1060	15	0	1075	2421
05:00 PM	2	5	0	7	5	357	0	362	0	0	270	4	0	274	643
05:15 PM	1	4	0	5	4	359	0	363	0	0	277	4	0	281	649
05:30 PM	1	0	0	1	3	324	0	327	0	0	302	3	0	305	633
05:45 PM	3	5	0	8	5	232	1	238	0	0	310	2	0	312	558
Total	7	14	0	21	17	1272	1	1290	0	0	1159	13	0	1172	2483
Grand Total	63	148	1	212	131	8122	4	8257	0	0	8451	93	0	8544	17013
Apprch %	29.7	69.8	0.5		1.6	98.4	0		0	0	98.9	1.1	0		
Total %	0.4	0.9	0	1.2	0.8	47.7	0	48.5	0	0	49.7	0.5	0	50.2	
Passenger Cars	58	135	1	194	124	7834	4	7962	0	0	8192	84	0	8276	16432
% Passenger Cars	92.1	91.2	100	91.5	94.7	96.5	100	96.4	0	0	96.9	90.3	0	96.9	96.6

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Road)
At Knight Street.
Municipality: Red Bank Borough
Counted By: Patrick T Barrett

File Name : CR 520 (Newman Springs Road) At Knight Street
Site Code : 52052119
Start Date : 5/21/2019
Page No : 1

Groups Printed- Passenger Cars

Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	2	10	0	12	7	177	0	184	0	0	185	1	0	186	382
07:15 AM	0	6	0	6	0	226	0	226	0	0	263	5	0	268	500
07:30 AM	6	4	0	10	5	259	0	264	0	0	287	2	0	289	563
07:45 AM	1	3	0	4	3	246	0	249	0	0	310	4	0	314	567
Total	9	23	0	32	15	908	0	923	0	0	1045	12	0	1057	2012
08:00 AM	2	8	0	10	6	285	0	291	0	0	299	5	0	304	605
08:15 AM	3	0	0	3	8	279	0	287	0	0	295	1	0	296	586
08:30 AM	2	6	0	8	4	233	0	237	0	0	319	7	0	326	571
08:45 AM	2	3	0	5	2	214	0	216	0	0	384	1	0	385	606
Total	9	17	0	26	20	1011	0	1031	0	0	1297	14	0	1311	2368
*** BREAK ***															
11:00 AM	0	5	0	5	1	176	0	177	0	0	198	2	0	200	382
11:15 AM	3	4	0	7	2	189	0	191	0	0	207	4	0	211	409
11:30 AM	2	2	0	4	2	185	0	187	0	0	213	0	0	213	404
11:45 AM	1	4	0	5	3	193	0	196	0	0	228	3	0	231	432
Total	6	15	0	21	8	743	0	751	0	0	846	9	0	855	1627
12:00 PM	0	3	0	3	0	171	0	171	0	0	213	1	0	214	388
12:15 PM	2	3	0	5	4	204	0	208	0	0	215	4	0	219	432
12:30 PM	1	6	1	8	6	191	0	197	0	0	192	1	0	193	398
12:45 PM	1	3	0	4	3	178	0	181	0	0	246	0	0	246	431
Total	4	15	1	20	13	744	0	757	0	0	866	6	0	872	1649
01:00 PM	2	6	0	8	2	181	0	183	0	0	203	3	0	206	397
01:15 PM	0	3	0	3	3	209	0	212	0	0	235	3	0	238	453
01:30 PM	1	3	0	4	4	203	0	207	0	0	235	1	0	236	447
01:45 PM	2	2	0	4	4	213	0	217	0	0	233	1	0	234	455
Total	5	14	0	19	13	806	0	819	0	0	906	8	0	914	1752
*** BREAK ***															
03:00 PM	1	7	0	8	7	270	2	279	0	0	239	6	0	245	532
03:15 PM	1	4	0	5	4	271	0	275	0	0	232	1	0	233	513
03:30 PM	1	2	0	3	4	273	0	277	0	0	289	0	0	289	569
03:45 PM	3	4	0	7	3	293	0	296	0	0	296	1	0	297	600
Total	6	17	0	23	18	1107	2	1127	0	0	1056	8	0	1064	2214
04:00 PM	7	8	0	15	9	316	1	326	0	0	279	4	0	283	624
04:15 PM	1	5	0	6	6	362	0	368	0	0	269	2	0	271	645
04:30 PM	1	5	0	6	3	310	0	313	0	0	249	3	0	252	571
04:45 PM	3	2	0	5	2	286	0	288	0	0	239	5	0	244	537
Total	12	20	0	32	20	1274	1	1295	0	0	1036	14	0	1050	2377
05:00 PM	2	5	0	7	5	351	0	356	0	0	266	4	0	270	633
05:15 PM	1	4	0	5	4	353	0	357	0	0	271	4	0	275	637
05:30 PM	1	0	0	1	3	316	0	319	0	0	297	3	0	300	620
05:45 PM	3	5	0	8	5	221	1	227	0	0	306	2	0	308	543
Total	7	14	0	21	17	1241	1	1259	0	0	1140	13	0	1153	2433
Grand Total	58	135	1	194	124	7834	4	7962	0	0	8192	84	0	8276	16432
Apprch %	29.9	69.6	0.5		1.6	98.4	0.1		0		99	1	0		
Total %	0.4	0.8	0	1.2	0.8	47.7	0	48.5	0	0	49.9	0.5	0	50.4	

**8 Hour Manual Intersection Movement Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

CR 520 (Newman Springs Road)
At Knight Street.
Municipality: Red Bank Borough
Counted By: Patrick T Barrett

File Name : CR 520 (Newman Springs Road) At Knight Street
Site Code : 52052119
Start Date : 5/21/2019
Page No : 1

Groups Printed- Single Unit Trucks

Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	0	0	0	0	1	3	0	4	0	0	4	0	0	4	8
07:15 AM	0	0	0	0	0	7	0	7	0	0	1	0	0	1	8
07:30 AM	0	0	0	0	0	3	0	3	0	0	2	0	0	2	5
07:45 AM	0	0	0	0	0	6	0	6	0	0	5	0	0	5	11
Total	0	0	0	0	1	19	0	20	0	0	12	0	0	12	32
08:00 AM	0	0	0	0	0	11	0	11	0	0	10	0	0	10	21
08:15 AM	0	2	0	2	0	4	0	4	0	0	7	0	0	7	13
08:30 AM	0	0	0	0	0	5	0	5	0	0	7	0	0	7	12
08:45 AM	0	0	0	0	0	2	0	2	0	0	6	0	0	6	8
Total	0	2	0	2	0	22	0	22	0	0	30	0	0	30	54
*** BREAK ***															
11:00 AM	0	0	0	0	0	6	0	6	0	0	2	0	0	2	8
11:15 AM	1	0	0	1	0	5	0	5	0	0	3	1	0	4	10
11:30 AM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
11:45 AM	0	0	0	0	0	5	0	5	0	0	4	1	0	5	10
Total	1	0	0	1	0	20	0	20	0	0	11	2	0	13	34
12:00 PM	0	0	0	0	0	1	0	1	0	0	3	0	0	3	4
12:15 PM	0	0	0	0	0	5	0	5	0	0	4	0	0	4	9
12:30 PM	0	0	0	0	0	4	0	4	0	0	7	0	0	7	11
12:45 PM	0	0	0	0	0	2	0	2	0	0	4	1	0	5	7
Total	0	0	0	0	0	12	0	12	0	0	18	1	0	19	31
01:00 PM	0	0	0	0	0	7	0	7	0	0	2	0	0	2	9
01:15 PM	0	1	0	1	0	6	0	6	0	0	5	0	0	5	12
01:30 PM	1	1	0	2	1	10	0	11	0	0	8	1	0	9	22
01:45 PM	0	0	0	0	0	2	0	2	0	0	1	0	0	1	3
Total	1	2	0	3	1	25	0	26	0	0	16	1	0	17	46
*** BREAK ***															
03:00 PM	0	0	0	0	2	5	0	7	0	0	5	1	0	6	13
03:15 PM	0	0	0	0	1	5	0	6	0	0	10	0	0	10	16
03:30 PM	0	1	0	1	0	5	0	5	0	0	3	0	0	3	9
03:45 PM	0	0	0	0	0	3	0	3	0	0	6	0	0	6	9
Total	0	1	0	1	3	18	0	21	0	0	24	1	0	25	47
04:00 PM	0	0	0	0	0	3	0	3	0	0	3	0	0	3	6
04:15 PM	0	0	0	0	1	2	0	3	0	0	6	0	0	6	9
04:30 PM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
04:45 PM	0	0	0	0	0	2	0	2	0	0	4	1	0	5	7
Total	0	0	0	0	1	11	0	12	0	0	15	1	0	16	28
05:00 PM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
05:15 PM	0	0	0	0	0	3	0	3	0	0	3	0	0	3	6
05:30 PM	0	0	0	0	0	3	0	3	0	0	3	0	0	3	6
05:45 PM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
Total	0	0	0	0	0	14	0	14	0	0	10	0	0	10	24
Grand Total	2	5	0	7	6	141	0	147	0	0	136	6	0	142	296
Apprch %	28.6	71.4	0		4.1	95.9	0		0		95.8	4.2	0		
Total %	0.7	1.7	0	2.4	2	47.6	0	49.7	0	0	45.9	2	0	48	

**8 Hour Manual Intersection Movement Count
 Monmouth County Traffic Safety Engineering
 1 E. Main Street, Hall Of Records Annex
 Freehold, N.J. 07728**

CR 520 (Newman Springs Road)
 At Knight Street.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

File Name : CR 520 (Newman Springs Road) At Knight Street
 Site Code : 52052119
 Start Date : 5/21/2019
 Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Knight Street From North				CR 520 (Newman Springs Road) From East				From South		CR 520 (Newman Springs Road) From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Peds	App. Total	Thru	Left	Peds	App. Total	
Factor	1.0	1.0	1.0		1.0	1.0	1.0		1.0		1.0	1.0	1.0		
07:00 AM	0	0	0	0	0	9	0	9	0	0	6	1	0	7	16
07:15 AM	0	1	0	1	0	8	0	8	0	0	5	0	0	5	14
07:30 AM	0	0	0	0	0	11	0	11	0	0	6	0	0	6	17
07:45 AM	0	2	0	2	0	6	0	6	0	0	6	0	0	6	14
Total	0	3	0	3	0	34	0	34	0	0	23	1	0	24	61
08:00 AM	0	0	0	0	0	2	0	2	0	0	3	0	0	3	5
08:15 AM	0	0	0	0	0	3	0	3	0	0	2	0	0	2	5
08:30 AM	1	1	0	2	0	5	0	5	0	0	4	0	0	4	11
08:45 AM	0	0	0	0	0	4	0	4	0	0	5	0	0	5	9
Total	1	1	0	2	0	14	0	14	0	0	14	0	0	14	30
*** BREAK ***															
11:00 AM	0	0	0	0	0	1	0	1	0	0	2	0	0	2	3
11:15 AM	0	0	0	0	0	6	0	6	0	0	5	0	0	5	11
11:30 AM	0	0	0	0	0	6	0	6	0	0	4	0	0	4	10
11:45 AM	1	0	0	1	0	5	0	5	0	0	4	0	0	4	10
Total	1	0	0	1	0	18	0	18	0	0	15	0	0	15	34
12:00 PM	0	0	0	0	0	5	0	5	0	0	3	0	0	3	8
12:15 PM	0	0	0	0	0	5	0	5	0	0	6	0	0	6	11
12:30 PM	0	0	0	0	0	3	0	3	0	0	2	0	0	2	5
12:45 PM	0	0	0	0	0	4	0	4	0	0	5	0	0	5	9
Total	0	0	0	0	0	17	0	17	0	0	16	0	0	16	33
01:00 PM	1	0	0	1	0	5	0	5	0	0	6	1	0	7	13
01:15 PM	0	0	0	0	0	4	0	4	0	0	5	0	0	5	9
01:30 PM	0	0	0	0	0	7	0	7	0	0	6	0	0	6	13
01:45 PM	0	0	0	0	0	6	0	6	0	0	5	0	0	5	11
Total	1	0	0	1	0	22	0	22	0	0	22	1	0	23	46
*** BREAK ***															
03:00 PM	0	1	0	1	0	5	0	5	0	0	4	0	0	4	10
03:15 PM	0	2	0	2	0	5	0	5	0	0	6	1	0	7	14
03:30 PM	0	1	0	1	0	5	0	5	0	0	3	0	0	3	9
03:45 PM	0	0	0	0	0	4	0	4	0	0	2	0	0	2	6
Total	0	4	0	4	0	19	0	19	0	0	15	1	0	16	39
04:00 PM	0	0	0	0	0	1	0	1	0	0	2	0	0	2	3
04:15 PM	0	0	0	0	1	2	0	3	0	0	2	0	0	2	5
04:30 PM	0	0	0	0	0	2	0	2	0	0	3	0	0	3	5
04:45 PM	0	0	0	0	0	1	0	1	0	0	2	0	0	2	3
Total	0	0	0	0	1	6	0	7	0	0	9	0	0	9	16
05:00 PM	0	0	0	0	0	2	0	2	0	0	2	0	0	2	4
05:15 PM	0	0	0	0	0	3	0	3	0	0	3	0	0	3	6
05:30 PM	0	0	0	0	0	5	0	5	0	0	2	0	0	2	7
05:45 PM	0	0	0	0	0	7	0	7	0	0	2	0	0	2	9
Total	0	0	0	0	0	17	0	17	0	0	9	0	0	9	26
Grand Total	3	8	0	11	1	147	0	148	0	0	123	3	0	126	285
Apprch %	27.3	72.7	0		0.7	99.3	0		0		97.6	2.4	0		
Total %	1.1	2.8	0	3.9	0.4	51.6	0	51.9	0	0	43.2	1.1	0	44.2	

(A3)
52' West of
Knight Street

TRAFFIC ENUMERATOR
WORK REPORT

CODE: _____ TOWN Inverton Falls Borough DATE 5/15/19
LOCATION C.R. 520 (Newman rd) 52' West of Knight Street
DIRECTION OF ROAD TUBE NO. 1 A B C D E East RD

PRIORITY 1 2 3

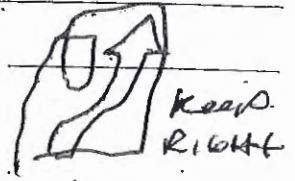
AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 11:05 AM

PICK UP: DATE 5/22/19 TIME 10:09 AM

SER. NO. 30512 MODEL Apollon POLE NO. 1



MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 5/16/19 the counter & tubes are ok 5/17/19 ^{took} the counter & tubes are ok
5/20/19 the counter & tubes are ok 5/21/19 ^{the} counter & tubes are ok

REPAIR REQUEST _____

SIGNATURE Patrick Business

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 52' West Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 520 (Newman Springs Road) West Of Knight Street

Start Time	05/13/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd
12:00 AM	*	*	*	*	*	*	82	88	86	88	166	153	211	157	136	122
01:00	*	*	*	*	*	*	44	51	59	48	85	87	104	98	73	71
02:00	*	*	*	*	*	*	25	22	40	31	51	46	68	48	46	37
03:00	*	*	*	*	*	*	39	17	31	32	24	34	25	35	30	30
04:00	*	*	*	*	*	*	113	51	82	47	54	46	41	35	72	45
05:00	*	*	*	*	*	*	283	139	260	137	108	89	68	50	180	104
06:00	*	*	*	*	*	*	634	474	534	451	254	227	132	127	388	320
07:00	*	*	*	*	*	*	924	1026	845	996	431	429	243	342	611	698
08:00	*	*	*	*	*	*	957	1159	901	1178	517	704	360	414	684	864
09:00	*	*	*	*	*	*	759	1053	741	985	669	860	484	528	663	856
10:00	*	*	*	*	*	*	693	870	629	887	740	842	658	680	680	820
11:00	*	*	*	*	*	*	811	864	657	866	857	997	753	841	770	892
12:00 PM	*	*	*	*	802	829	887	930	763	901	941	947	833	873	845	896
01:00	*	*	*	*	835	869	926	898	760	884	894	909	1016	737	886	859
02:00	*	*	*	*	1050	848	1056	869	789	794	825	868	933	715	931	817
03:00	*	*	*	*	931	601	1160	927	1042	896	891	807	960	679	997	782
04:00	*	*	*	*	1238	1135	1202	970	1141	961	947	839	1011	515	1108	884
05:00	*	*	*	*	1017	837	1067	1047	1072	1077	921	889	935	504	1002	870
06:00	*	*	*	*	1014	1098	962	1291	901	1186	808	781	698	535	877	978
07:00	*	*	*	*	805	774	795	801	681	789	631	704	514	496	686	712
08:00	*	*	*	*	677	501	685	517	560	476	581	483	390	386	579	473
09:00	*	*	*	*	434	377	477	437	485	414	491	376	262	262	430	373
10:00	*	*	*	*	302	267	273	323	486	331	599	331	184	194	369	289
11:00	*	*	*	*	149	127	285	174	300	239	358	277	116	121	242	188
Lane	0	0	0	0	9254	8263	15139	14998	13845	14694	12843	12715	10999	9362	13284	12980
Day	0	0	0	0	17517		30137		28539		25558		20361		26264	
AM Peak	-	-	-	-	-	-	08:00	08:00	08:00	08:00	11:00	11:00	11:00	11:00	11:00	11:00
Vol.	-	-	-	-	-	-	957	1159	901	1178	857	997	753	841	770	892
PM Peak	-	-	-	-	16:00	16:00	16:00	18:00	16:00	18:00	16:00	12:00	13:00	12:00	16:00	18:00
Vol.	-	-	-	-	1238	1135	1202	1291	1141	1186	947	947	1016	873	1108	978

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 52' West Of Knight Street
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 520 (Newman Springs Road) West Of Knight Street

Start Time	05/20/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd	Westbd	Eastbd
12:00 AM	65	79	58	79	58	93	*	*	*	*	*	*	*	*	60	84
01:00	32	37	37	42	32	33	*	*	*	*	*	*	*	*	34	37
02:00	24	28	25	20	21	21	*	*	*	*	*	*	*	*	23	23
03:00	32	18	30	24	28	23	*	*	*	*	*	*	*	*	30	22
04:00	110	54	97	40	98	44	*	*	*	*	*	*	*	*	102	46
05:00	309	164	346	153	289	147	*	*	*	*	*	*	*	*	315	155
06:00	605	477	626	471	630	476	*	*	*	*	*	*	*	*	620	475
07:00	881	915	911	988	844	1045	*	*	*	*	*	*	*	*	879	983
08:00	951	1163	1008	1192	959	1105	*	*	*	*	*	*	*	*	973	1153
09:00	702	896	743	952	734	941	*	*	*	*	*	*	*	*	726	930
10:00	598	825	668	837	*	*	*	*	*	*	*	*	*	*	633	831
11:00	669	620	767	823	*	*	*	*	*	*	*	*	*	*	718	722
12:00 PM	658	910	753	829	*	*	*	*	*	*	*	*	*	*	706	870
01:00	675	825	816	895	*	*	*	*	*	*	*	*	*	*	746	860
02:00	746	821	992	907	*	*	*	*	*	*	*	*	*	*	869	864
03:00	855	706	1069	976	*	*	*	*	*	*	*	*	*	*	962	841
04:00	1141	892	1223	951	*	*	*	*	*	*	*	*	*	*	1182	922
05:00	1102	1015	1046	900	*	*	*	*	*	*	*	*	*	*	1074	958
06:00	882	1072	910	1056	*	*	*	*	*	*	*	*	*	*	896	1064
07:00	645	766	607	732	*	*	*	*	*	*	*	*	*	*	626	749
08:00	544	450	711	522	*	*	*	*	*	*	*	*	*	*	628	486
09:00	428	292	564	339	*	*	*	*	*	*	*	*	*	*	496	316
10:00	203	224	211	234	*	*	*	*	*	*	*	*	*	*	207	229
11:00	112	131	128	122	*	*	*	*	*	*	*	*	*	*	120	126
Lane	12969	13380	14346	14084	3693	3928	0	0	0	0	0	0	0	0	13625	13746
Day	26349		28430		7621		0	0	0	0	0	0	0		27371	
AM Peak	08:00	08:00	08:00	08:00	08:00	08:00	-	-	-	-	-	-	-	-	08:00	08:00
Vol.	951	1163	1008	1192	959	1105	-	-	-	-	-	-	-	-	973	1153
PM Peak	16:00	18:00	16:00	18:00	-	-	-	-	-	-	-	-	-	-	16:00	18:00
Vol.	1141	1072	1223	1056	-	-	-	-	-	-	-	-	-	-	1182	1064

Comb. Total	26349	28430	25138	30137	28539	25558	20361	53635
ADT	ADT 26,798	AADT 26,798						

**7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728**

Location: CR 520 (Newman Springs Road)
52' West Of Knight Street.
Municipality: Tinton Falls Borough
Counted By: Patrick T Barrett

Site Code:

Date Start: 15-May-19
Date End: 22-May-19

(C) CR 520 (Newman Springs Road) West Of Knight Street

Westbd, Eastbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	0	125	18	0	5	0	0	1	0	0	0	0	0	2	151
01:00	2	50	9	0	3	1	0	0	0	0	0	0	0	0	65
02:00	0	32	6	0	2	1	0	0	1	0	0	0	0	0	42
03:00	0	41	7	0	3	0	0	0	0	0	0	0	0	0	51
04:00	0	102	27	2	7	1	0	0	0	0	0	0	0	3	142
05:00	5	329	73	5	16	2	0	3	0	0	0	0	0	3	436
06:00	11	801	179	13	53	4	0	12	2	2	0	0	0	29	1106
07:00	28	1323	269	28	88	8	5	34	3	3	1	1	1	97	1889
08:00	30	1518	256	14	77	6	1	28	2	3	1	0	1	127	2064
09:00	26	1208	224	14	60	10	0	20	1	3	1	0	0	108	1675
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	102	5529	1068	76	314	33	6	98	9	11	3	1	2	369	7621
Percent	1.3%	72.5%	14.0%	1.0%	4.1%	0.4%	0.1%	1.3%	0.1%	0.1%	0.0%	0.0%	0.0%	4.8%	
AM Peak	08:00	08:00	07:00	07:00	07:00	09:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	08:00	
Vol.	30	1518	269	28	88	10	5	34	3	3	1	1	1	127	
PM Peak															
Vol															

Grand Total	2624	139740	23912	1246	5569	531	145	1907	135	214	74	34	23	8358	184512
Percent	1.4%	75.7%	13.0%	0.7%	3.0%	0.3%	0.1%	1.0%	0.1%	0.1%	0.0%	0.0%	0.0%	4.5%	

Location: CR 520 (Newman Springs Road)
 52' West Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19

Date End: 22-May-19

(S) CR 520 (Newman Springs Road) West Of Knight Street

Westbd, Eastbd

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
05/22/19	4	1	1	5	15	55	47	14	8	1	0	0	0	0	151	36-45	102
01:00	0	0	0	1	6	20	28	7	2	1	0	0	0	0	65	36-45	48
02:00	0	0	0	3	9	15	8	6	1	0	0	0	0	0	42	31-40	24
03:00	0	0	0	0	6	14	18	9	4	0	0	0	0	0	51	36-45	32
04:00	3	0	1	0	9	37	56	26	7	3	0	0	0	0	142	36-45	93
05:00	3	2	4	15	37	106	130	92	38	7	2	0	0	0	436	36-45	236
06:00	30	7	9	26	135	328	297	193	67	12	2	0	0	0	1106	36-45	625
07:00	104	24	33	103	285	602	428	215	73	16	6	0	0	0	1889	36-45	1030
08:00	138	28	55	138	390	623	439	213	35	5	0	0	0	0	2064	36-45	1062
09:00	118	12	31	86	262	482	436	183	60	4	1	0	0	0	1675	36-45	918
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	400	74	134	377	1154	2282	1887	958	295	49	11	0	0	0	7621		
Percent	5.2%	1.0%	1.8%	4.9%	15.1%	29.9%	24.8%	12.6%	3.9%	0.6%	0.1%	0.0%	0.0%	0.0%			
AM Peak	08:00	08:00	08:00	08:00	08:00	08:00	08:00	07:00	07:00	07:00	07:00				08:00		
Vol.	138	28	55	138	390	623	439	215	73	16	6				2064		

PM Peak Vol.	Total	Percent
Total	9538	5.2%
Percent	2192	1.2%
	4266	2.3%
	10760	5.8%
	30050	16.3%
	57021	30.9%
	44581	24.2%
	19897	10.8%
	5181	2.8%
	876	0.5%
	118	0.1%
	21	0.0%
	9	0.0%
	2	0.0%
	184512	

Stats	10 MPH Pace Speed :	36-45 MPH
	Number in Pace :	101602
	Percent in Pace :	55.1%
	Number of Vehicles > 55 MPH :	1026
	Percent of Vehicles > 55 MPH :	0.6%
	Mean Speed(Average) :	37 MPH

#1

TRAFFIC ENUMERATOR
WORK REPORT

CODE _____ TOWN Rep Bank Bellocok DATE 5/15/19
LOCATION C.R. 520 (Meadow Spring RD), 103' west of MV in place
DIRECTION OF ROAD TUBE NO. 1 West Bank L-5
ONE DIRECTION
PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 9:57 AM

PICK UP: DATE 5/22/19 TIME 9:44 AM

SER. NO. 25325 MODEL APOLCOUNTER POLE NO. SIGN

SPEED
Limit
45
11

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: - 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 5/16/19 the counter & tubes are ok 5/17/19 took the counter & tubes are ok
5/20/19 the counter & tubes are ok 5/21/19 the counter & tubes are ok

REPAIR REQUEST _____

SIGNATURE Patrick + Bennett

























7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code: Apollyon

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 520 (Newman Springs Road) West Of Munson Place

Start Time	Mon 05/13/19	Tue 05/14/19	Wed 05/15/19	Thu 05/16/19	Fri 05/17/19	Average Day	Sat 05/18/19	Sun 05/19/19	Week Average					
12:00 AM	*	*	*	79	103	91	174	224	145 					
01:00	*	*	*	50	61	56	84	116	78 					
02:00	*	*	*	37	44	40	51	75	52 					
03:00	*	*	*	48	39	44	30	28	36 					
04:00	*	*	*	153	128	140	61	44	96 					
05:00	*	*	*	389	356	372	126	95	242 					
06:00	*	*	*	932	764	848	297	159	538 					
07:00	*	*	*	1305	1190	1248	503	308	826 					
08:00	*	*	*	1352	1219	1286	627	439	909 					
09:00	*	*	*	1066	984	1025	863	621	884 					
10:00	*	*	935	914	643	831	961	821	855 					
11:00	*	*	1010	1038	702	917	1077	929	951 					
12:00 PM	*	*	1089	1138	682	970	1106	1062	1015 					
01:00	*	*	1093	1207	776	1025	1089	1423	1118 					
02:00	*	*	1369	1359	677	1135	1052	1295	1150 					
03:00	*	*	1401	1604	1345	1450	1157	1335	1368 					
04:00	*	*	1640	1618	1467	1575	1168	1412	1461 					
05:00	*	*	1426	1423	1400	1416	1145	1218	1322 					
06:00	*	*	1292	1212	1080	1195	973	932	1098 					
07:00	*	*	997	959	810	922	724	627	823 					
08:00	*	*	804	814	636	751	633	442	666 					
09:00	*	*	518	549	552	540	542	288	490 					
10:00	*	*	349	294	541	395	648	206	408 					
11:00	*	*	174	307	336	272	373	114	261 					
Day Total	0	0	14097	19847	16535	18544	15464	14213	16792					
% Avg. WkDay	0.0%	0.0%	76.0%	107.0%	89.2%									
% Avg. Week	0.0%	0.0%	84.0%	118.2%	98.5%	110.4%	92.1%	84.6%						
Peak	-	-	11:00	08:00	08:00	-	08:00	-	11:00	11:00	-	11:00	-	-
Vol.	-	-	1010	1352	1219	-	1286	-	1077	929	-	951	-	-
Peak	-	-	16:00	16:00	16:00	-	16:00	-	16:00	13:00	-	16:00	-	-
Vol.	-	-	1640	1618	1467	-	1575	-	1168	1423	-	1461	-	-

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code: Apollyon

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 520 (Newman Springs Road) West Of Munson Place

Start Time	Mon 05/20/19	Tue 05/21/19	Wed 05/22/19	Thu 05/23/19	Fri 05/24/19	Average Day	Sat 05/25/19	Sun 05/26/19	Week Average
12:00 AM	75	72	59	*	*	69	*	*	69
01:00	46	36	39	*	*	40	*	*	40
02:00	25	30	28	*	*	28	*	*	28
03:00	42	40	39	*	*	40	*	*	40
04:00	159	142	135	*	*	145	*	*	145
05:00	438	464	413	*	*	438	*	*	438
06:00	876	909	925	*	*	903	*	*	903
07:00	1241	1327	1206	*	*	1258	*	*	1258
08:00	1326	1413	1358	*	*	1366	*	*	1366
09:00	984	978	*	*	*	981	*	*	981
10:00	772	898	*	*	*	835	*	*	835
11:00	580	972	*	*	*	776	*	*	776
12:00 PM	656	1006	*	*	*	831	*	*	831
01:00	776	1023	*	*	*	900	*	*	900
02:00	810	1268	*	*	*	1039	*	*	1039
03:00	1088	1426	*	*	*	1257	*	*	1257
04:00	1584	1595	*	*	*	1590	*	*	1590
05:00	1457	1419	*	*	*	1438	*	*	1438
06:00	1083	1158	*	*	*	1120	*	*	1120
07:00	787	812	*	*	*	800	*	*	800
08:00	651	833	*	*	*	742	*	*	742
09:00	499	625	*	*	*	562	*	*	562
10:00	247	235	*	*	*	241	*	*	241
11:00	133	153	*	*	*	143	*	*	143
Day Total	16335	18834	4202	0	0	17542	0	0	17542
% Avg. WkDay	93.1%	107.4%	24.0%	0.0%	0.0%				
% Avg. Week	93.1%	107.4%	24.0%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	-	-	08:00	-	-	08:00
Vol.	1326	1413	1358	-	-	1366	-	-	1366
PM Peak	16:00	16:00	-	-	-	16:00	-	-	16:00
Vol.	1584	1595	-	-	-	1590	-	-	1590
Grand Total	16335	18834	18299	19847	16535	36086	15464	14213	34334
ADT		ADT 17,206			AADT 17,206				

Location:CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code: Apollyon

Date Start: 15-May-19
 Date End: 22-May-19

(C) CR 520 (Newman Springs Road) West Of Munson Place

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	0	55	3	0	1	0	0	0	0	0	0	0	0	0	59
01:00	1	29	7	0	2	0	0	0	0	0	0	0	0	0	39
02:00	0	21	5	0	1	0	0	0	1	0	0	0	0	0	28
03:00	0	32	5	0	2	0	0	0	0	0	0	0	0	0	39
04:00	0	104	22	2	4	1	0	1	0	0	0	0	0	1	135
05:00	0	329	60	4	10	1	0	5	0	0	0	0	0	4	413
06:00	4	737	119	6	33	3	0	3	1	2	0	0	0	17	925
07:00	9	954	132	16	38	2	1	11	1	1	0	0	0	41	1206
08:00	3	1078	160	11	40	4	1	9	2	4	3	0	0	43	1358
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	17	3339	513	39	131	11	2	29	5	7	3	0	0	106	4202
Percent	0.4%	79.5%	12.2%	0.9%	3.1%	0.3%	0.0%	0.7%	0.1%	0.2%	0.1%	0.0%	0.0%	2.5%	
AM Peak	07:00	08:00	08:00	07:00	08:00	08:00	07:00	07:00	08:00	08:00	08:00	08:00	08:00	08:00	
Vol.	9	1078	160	16	40	4	1	11	2	4	3			43	
PM Peak															
Vol.															

Grand Total	1215	94518	14075	649	2938	244	57	814	57	99	35	16	13	4797	119527
Percent	1.0%	79.1%	11.8%	0.5%	2.5%	0.2%	0.0%	0.7%	0.0%	0.1%	0.0%	0.0%	0.0%	4.0%	

Location:CR 520 (Newman Springs Road)
 103' West Of Munson Place.
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code: Apollyon

Date Start: 15-May-19
 Date End: 22-May-19

(S) CR 520 (Newman Springs Road) West Of Munson Place

Westbd	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in Pace
05/22/19	0	0	3	4	8	16	14	9	3	2	0	0	0	0	59	36-45	30
01:00	0	0	1	2	7	5	17	5	1	1	0	0	0	0	39	36-45	22
02:00	0	0	0	7	4	7	7	2	0	1	0	0	0	0	28	36-45	14
03:00	0	0	2	4	7	4	7	10	4	1	0	0	0	0	39	41-50	17
04:00	1	0	0	18	28	18	29	28	8	4	1	0	0	0	135	41-50	57
05:00	4	1	2	52	118	63	57	70	36	8	2	0	0	0	413	31-40	181
06:00	17	2	7	86	329	175	109	107	73	18	2	0	0	0	925	31-40	504
07:00	40	0	11	119	420	223	138	142	93	17	1	1	1	0	1206	31-40	643
08:00	37	2	22	134	475	269	184	157	67	9	2	0	0	0	1358	31-40	744
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	99	5	48	426	1396	780	562	530	285	61	8	1	1	0	4202		
Percent	2.4%	0.1%	1.1%	10.1%	33.2%	18.6%	13.4%	12.6%	6.8%	1.5%	0.2%	0.0%	0.0%	0.0%			
AM Peak	07:00	06:00	08:00	08:00	08:00	08:00	08:00	08:00	07:00	06:00	05:00	07:00	07:00		08:00		
Vol.	40	2	22	134	475	269	184	157	93	18	2	1	1		1358		
PM Peak																	
Vol.	6784	1138	2404	14299	33886	22777	18098	14073	4948	963	131	19	4	3	119527		
Percent	5.7%	1.0%	2.0%	12.0%	28.4%	19.1%	15.1%	11.8%	4.1%	0.8%	0.1%	0.0%	0.0%	0.0%			

15th Percentile :	27 MPH
50th Percentile :	35 MPH
85th Percentile :	45 MPH
95th Percentile :	50 MPH
Stats	
10 MPH Pace Speed :	31-40 MPH
Number in Pace :	56663
Percent in Pace :	47.4%
Number of Vehicles > 55 MPH :	1120
Percent of Vehicles > 55 MPH :	0.9%
Mean Speed(Average) :	36 MPH

TRAFFIC ENUMERATOR
WORK REPORT

#8

CODE: _____ TOWN Red Bank Borough DATE 5/15/19

LOCATION KNIGHT STREET 119, NORTH OF CR 520'S NEWMAN SPRING ST 129

DIRECTION OF ROAD TUBE NO. 1 South Bound

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 12:07 PM

PICK UP: DATE 5/22/19 TIME 8:26 AM

SER. NO. 23376 MODEL Apocron POLE NO. 516-15

NO
Parking
Here to
corner

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 5/16/19 ^{the} counter & tubes are ok. 5/17/19 ^{the} counter & tubes are ok.
5/20/19 ^{the} counter & tubes are ok. 5/21/19 ^{the} counter & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Patrick Bennett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Knight Street
 119' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code: Apollyon

Date Start: 05/15/19

Date End: 05/22/19

(V) Knight Street North Of CR 520 (Newman Springs Road)

Start Time	05/13/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd
12:00 AM	*	*	*	*	*	*	4	1	1	2	2	3	2	1	2	2
01:00	*	*	*	*	*	*	0	1	4	4	4	2	4	6	3	3
02:00	*	*	*	*	*	*	3	2	0	0	4	2	2	1	2	1
03:00	*	*	*	*	*	*	1	1	1	4	0	2	0	0	0	2
04:00	*	*	*	*	*	*	2	3	4	3	1	2	0	3	2	3
05:00	*	*	*	*	*	*	5	9	6	3	6	5	2	1	5	4
06:00	*	*	*	*	*	*	25	22	21	17	15	9	7	7	17	14
07:00	*	*	*	*	*	*	27	31	35	32	26	26	17	16	26	26
08:00	*	*	*	*	*	*	28	34	21	28	17	10	20	15	22	22
09:00	*	*	*	*	*	*	14	21	19	21	21	16	17	19	18	19
10:00	*	*	*	*	*	*	17	13	41	18	24	11	27	18	27	15
11:00	*	*	*	*	*	*	16	23	43	21	21	29	23	22	26	24
12:00 PM	*	*	*	*	*	*	19	15	49	20	19	18	26	30	28	21
01:00	*	*	*	*	30	30	16	19	40	16	26	25	36	29	30	24
02:00	*	*	*	*	33	33	24	29	49	20	32	26	24	21	32	26
03:00	*	*	*	*	41	38	30	37	50	38	20	28	31	32	34	35
04:00	*	*	*	*	49	27	34	26	38	20	19	24	20	32	32	26
05:00	*	*	*	*	41	41	17	25	16	28	16	30	20	14	22	28
06:00	*	*	*	*	48	26	31	21	26	32	20	18	17	15	28	22
07:00	*	*	*	*	27	31	20	28	18	21	26	25	18	23	22	26
08:00	*	*	*	*	23	30	19	23	16	20	15	15	15	25	18	23
09:00	*	*	*	*	13	13	8	9	9	18	16	15	8	17	11	14
10:00	*	*	*	*	13	23	11	16	14	14	10	18	7	10	11	16
11:00	*	*	*	*	14	14	6	8	15	14	10	12	11	11	11	12
Lane	0	0	0	0	332	306	377	417	536	414	370	371	354	368	429	408
Day	0	0	0	0	638	306	794	417	950	414	741	371	722	368	837	408
AM Peak	-	-	-	-	-	-	08:00	08:00	11:00	07:00	07:00	11:00	10:00	11:00	10:00	07:00
Vol.	-	-	-	-	-	-	28	34	43	32	26	29	27	22	27	26
PM Peak	-	-	-	-	16:00	17:00	16:00	15:00	15:00	15:00	14:00	17:00	13:00	15:00	15:00	15:00
Vol.	-	-	-	-	49	41	34	37	50	38	32	30	36	32	34	35

Location:Knight Street
 119' North Of CR 520 (Newman Springs Road).
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code: Apollyon

Date Start: 15-May-19
 Date End: 22-May-19

(C) Knight Street North Of CR 520 (Newman Springs Road)

Southbd, Northbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	0	4	3	0	0	0	0	0	0	0	0	0	0	3	10
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	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	11	2	0	0	0	0	0	0	0	0	0	0	1	14
06:00	1	36	3	1	2	0	0	0	0	0	0	0	0	10	53
07:00	0	48	8	1	1	0	0	0	0	0	0	0	0	8	66
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	1	101	16	2	3	0	0	0	0	0	0	0	0	22	145
Percent	0.7%	69.7%	11.0%	1.4%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.2%	
AM Peak	06:00	07:00	07:00	06:00	06:00									06:00	
Vol.	1	48	8	1	2									10	

PM Peak
Vol.

Grand Total	139	3993	782	18	188	14	0	4	0	0	0	0	0	748	5886
Percent	2.4%	67.8%	13.3%	0.3%	3.2%	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	12.7%	

Location:Knight Street
 119' North Of CR 520 (Newman Springs Road).
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code: Apollyon

Date Start: 15-May-19
 Date End: 22-May-19

(S) Knight Street North Of CR 520 (Newman Springs Road)

Southbd, Northbd	1	4	7	10	13	16	19	22	25	28	31	34	37	40	Total	Pace Speed	Number in Pace
Start Time	3	6	9	12	15	18	21	24	27	30	33	36	39	999			
05/22/19	3	0	0	1	2	3	1	0	0	0	0	0	0	0	10	13-22	6
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	0	0	0	1	0	0	0	0	0	0	0	1	11-20	1
04:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	11-20	1
05:00	1	0	0	1	5	5	1	1	0	0	0	0	0	0	14	13-22	11
06:00	8	4	2	4	10	9	9	3	3	1	0	0	0	0	53	13-22	29
07:00	8	2	3	5	18	14	13	3	0	0	0	0	0	0	66	12-21	47
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	20	6	5	11	35	31	26	7	3	1	0	0	0	0	145		
Percent	13.8%	4.1%	3.4%	7.6%	24.1%	21.4%	17.9%	4.8%	2.1%	0.7%	0.0%	0.0%	0.0%	0.0%			
AM Peak	06:00	06:00	07:00	07:00	07:00	07:00	07:00	06:00	06:00	06:00					07:00		
Vol.	8	4	3	5	18	14	13	3	3	1					66		
PM Peak																	
Vol.																	
Total	576	88	187	576	1274	1754	1039	323	62	6	1	0	0	0	5886		
Percent	9.8%	1.5%	3.2%	9.8%	21.6%	29.8%	17.7%	5.5%	1.1%	0.1%	0.0%	0.0%	0.0%	0.0%			

Stats

15th Percentile : 9 MPH
 50th Percentile : 15 MPH
 85th Percentile : 19 MPH
 95th Percentile : 21 MPH

10 MPH Pace Speed : 12-21 MPH
 Number in Pace : 4259
 Percent in Pace : 72.4%

Number of Vehicles > 55 MPH : 0
 Percent of Vehicles > 55 MPH : 0.0%

Mean Speed(Average) : 15 MPH

TRAFFIC ENUMERATOR
WORK REPORT

#4

CODE _____ TOWN Tinton Falls, Boro DATE 5/15/19

LOCATION CR 520 ROAD, 1-173' EAST OF Knight Street

DIRECTION OF ROAD TUBE NO. 1 EAST BORO L-5
ONE Direction

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 11:27 AM

PICK UP: DATE 5/22/19 TIME 10:17 AM

SER. NO. 25346 MODEL Aradison POLE NO. S162

Speed Limit
40

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 5/16/19 THE counter & tubes are ok ^{took photos} 5/17/19 THE counter & tubes are ok
5/20/19 + the counter & tubes are ok. 5/21/19 THE counter & tubes are ok

REPAIR REQUEST _____

SIGNATURE Potter & Bennett

























7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(2 of 2) (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 05/13/19	Tue 05/14/19	Wed 05/15/19	Thu 05/16/19	Fri 05/17/19	Average Day	Sat 05/18/19	Sun 05/19/19	Week Average					
12:00 AM	*	*	*	90	90	90	152	159	123 					
01:00	*	*	*	46	47	46	88	99	70 					
02:00	*	*	*	22	31	26	50	50	38 					
03:00	*	*	*	18	33	26	33	35	30 					
04:00	*	*	*	52	49	50	47	35	46 					
05:00	*	*	*	142	144	143	93	52	108 					
06:00	*	*	*	489	463	476	242	129	331 					
07:00	*	*	*	1067	1060	1064	442	354	731 					
08:00	*	*	*	1195	1228	1212	738	431	898 					
09:00	*	*	*	1086	1013	1050	884	540	881 					
10:00	*	*	*	900	936	918	885	719	860 					
11:00	*	*	*	883	918	900	1020	875	924 					
12:00 PM	*	*	892	974	981	949	966	913	945 					
01:00	*	*	917	950	913	927	945	842	913 					
02:00	*	*	984	972	1076	1011	894	755	936 					
03:00	*	*	747	1082	996	942	862	717	881 					
04:00	*	*	1233	1129	1030	1131	872	578	968 					
05:00	*	*	1218	1272	1166	1219	932	557	1029 					
06:00	*	*	1163	1351	1235	1250	817	543	1022 					
07:00	*	*	808	844	802	818	727	495	735 					
08:00	*	*	529	530	493	517	488	397	487 					
09:00	*	*	386	439	423	416	391	262	380 					
10:00	*	*	269	331	333	311	332	193	292 					
11:00	*	*	136	172	249	186	280	124	192 					
Day Total	0	0	9282	16036	15709	15678	13180	9854	13820					
% Avg. WkDay	0.0%	0.0%	59.2%	102.3%	100.2%									
% Avg. Week	0.0%	0.0%	67.2%	116.0%	113.7%	113.4%	95.4%	71.3%						
Peak	-	-	-	08:00	08:00	-	08:00	-	11:00	11:00	-	11:00	-	-
Vol.	-	-	-	1195	1228	-	1212	-	1020	875	-	924	-	-
Peak	-	-	16:00	18:00	18:00	-	18:00	-	12:00	12:00	-	17:00	-	-
Vol.	-	-	1233	1351	1235	-	1250	-	966	913	-	1029	-	-

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(2 of 2) (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 05/20/19	Tue 05/21/19	Wed 05/22/19	Thu 05/23/19	Fri 05/24/19	Average Day	Sat 05/25/19	Sun 05/26/19	Week Average
12:00 AM	79	79	98	*	*	85	*	*	85
01:00	38	43	33	*	*	38	*	*	38
02:00	27	20	21	*	*	23	*	*	23
03:00	19	24	23	*	*	22	*	*	22
04:00	54	40	44	*	*	46	*	*	46
05:00	172	159	150	*	*	160	*	*	160
06:00	484	488	490	*	*	487	*	*	487
07:00	990	1027	1084	*	*	1034	*	*	1034
08:00	1205	1279	1209	*	*	1231	*	*	1231
09:00	944	994	1043	*	*	994	*	*	994
10:00	845	882	*	*	*	864	*	*	864
11:00	674	841	*	*	*	758	*	*	758
12:00 PM	975	850	*	*	*	912	*	*	912
01:00	841	918	*	*	*	880	*	*	880
02:00	868	952	*	*	*	910	*	*	910
03:00	983	1072	*	*	*	1028	*	*	1028
04:00	1020	1041	*	*	*	1030	*	*	1030
05:00	1100	1127	*	*	*	1114	*	*	1114
06:00	1132	1097	*	*	*	1114	*	*	1114
07:00	801	742	*	*	*	772	*	*	772
08:00	476	528	*	*	*	502	*	*	502
09:00	304	345	*	*	*	324	*	*	324
10:00	229	238	*	*	*	234	*	*	234
11:00	133	126	*	*	*	130	*	*	130
Day Total	14393	14912	4195	0	0	14692	0	0	14692
% Avg. WkDay	98.0%	101.5%	28.6%	0.0%	0.0%				
% Avg. Week	98.0%	101.5%	28.6%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	-	-	08:00	-	-	08:00
Vol.	1205	1279	1209	-	-	1231	-	-	1231
PM Peak	18:00	17:00	-	-	-	17:00	-	-	17:00
Vol.	1132	1127	-	-	-	1114	-	-	1114
Grand Total	14393	14912	13477	16036	15709	30370	13180	9854	28512

ADT ADT 14,184 AADT 14,184

Location:CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality:Tinton Falls Borough
 Counted By:PatrickT Barrett

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(2 of 2) (C) CR 520 (Newman Springs Road) East Of Knight Street

Eastbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	1	82	11	0	3	0	0	1	0	0	0	0	0	0	98
01:00	1	25	6	0	0	1	0	0	0	0	0	0	0	0	33
02:00	0	18	1	0	1	1	0	0	0	0	0	0	0	0	21
03:00	0	20	3	0	0	0	0	0	0	0	0	0	0	0	23
04:00	0	38	3	0	3	0	0	0	0	0	0	0	0	0	44
05:00	0	111	29	1	6	1	0	1	0	0	0	0	0	1	150
06:00	5	336	93	8	21	1	1	5	1	0	0	0	0	19	490
07:00	21	786	146	19	35	6	4	22	2	1	0	1	0	41	1084
08:00	38	913	124	7	43	10	3	19	1	1	0	0	0	50	1209
09:00	19	804	129	8	40	1	0	6	1	1	0	1	0	33	1043
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	85	3133	545	43	152	21	8	54	5	3	0	2	0	144	4195
Percent	2.0%	74.7%	13.0%	1.0%	3.6%	0.5%	0.2%	1.3%	0.1%	0.1%	0.0%	0.0%	0.0%	3.4%	
AM Peak	08:00	08:00	07:00	07:00	08:00	08:00	07:00	07:00	07:00	07:00		07:00		08:00	
Vol.	38	913	146	19	43	10	4	22	2	1		1		50	
PM Peak															
Vol.															

Grand Total	1456	77229	11181	613	2554	294	131	933	76	143	36	26	12	2877	97561
Percent	1.5%	79.2%	11.5%	0.6%	2.6%	0.3%	0.1%	1.0%	0.1%	0.1%	0.0%	0.0%	0.0%	2.9%	

Location:CR 520 (Newman Springs Road)
 143' East Of Knight Street.
 Municipality:Tinton Falls Borough
 Counted By:PatrickT Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(2 of 2) (S) CR 520 (Newman Springs Road) East Of Knight Street

Eastbd	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in Pace
05/22/19	1	1	3	2	11	34	32	10	4	0	0	0	0	0	98	36-45	66
01:00	0	0	0	0	3	8	18	3	1	0	0	0	0	0	33	36-45	26
02:00	0	0	0	0	5	5	7	2	2	0	0	0	0	0	21	36-45	12
03:00	0	0	0	0	3	10	5	5	0	0	0	0	0	0	23	35-44	15
04:00	0	0	0	0	2	6	21	14	1	0	0	0	0	0	44	41-50	35
05:00	1	1	1	3	5	24	46	45	21	3	0	0	0	0	150	41-50	91
06:00	19	5	9	19	29	120	162	105	16	4	2	0	0	0	490	36-45	282
07:00	41	8	14	38	142	431	251	114	37	6	1	1	0	0	1084	36-45	682
08:00	62	16	18	66	210	433	282	105	17	0	0	0	0	0	1209	36-45	715
09:00	32	1	12	24	162	364	278	145	24	0	1	0	0	0	1043	36-45	642
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	156	32	57	152	572	1435	1102	548	123	13	4	1	0	0	4195		
Percent	3.7%	0.8%	1.4%	3.6%	13.6%	34.2%	26.3%	13.1%	2.9%	0.3%	0.1%	0.0%	0.0%	0.0%			
AM Peak	08:00	08:00	08:00	08:00	08:00	08:00	08:00	09:00	07:00	07:00	06:00	07:00			08:00		
Vol.	62	16	18	66	210	433	282	145	37	6	2	1			1209		
PM Peak																	
Vol.																	
Total	2863	214	855	3420	14305	34756	27514	10724	2485	369	43	11	1	1	97561		
Percent	2.9%	0.2%	0.9%	3.5%	14.7%	35.6%	28.2%	11.0%	2.5%	0.4%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 32 MPH
 50th Percentile : 38 MPH
 85th Percentile : 44 MPH
 95th Percentile : 49 MPH

Stats
 10 MPH Pace Speed : 36-45 MPH
 Number in Pace : 62270
 Percent in Pace : 63.8%
 Number of Vehicles > 55 MPH : 425
 Percent of Vehicles > 55 MPH : 0.4%
 Mean Speed(Average) : 39 MPH

#7

TRAFFIC ENUMERATOR
WORK REPORT

CODE: _____ TOWN Red Bank Borough DATE 5/15/19
LOCATION Munson Place, 240' North of 6520 (Springs Rd) Newman
DIRECTION OF ROAD TUBE NO. Northbound

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 12:26 PM

PICK UP: DATE 5/22/19 TIME 8:36 AM

SER. NO. 26786 MODEL APollman POLE NO. 5160

NO
Parking
Here to
Corner

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: - 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 5/16/19 ^{THE} counts & tubes are ok.

5/20/19 ^{the} counts & tubes are ok. 5/22/19 ^{the} counts & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Patrick + Barnett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Munson Place
 240' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(V) Munson Place North Of CR 520 (Newman Springs Road)

Start Time	05/13/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd
12:00 AM	*	*	*	*	*	*	7	0	4	4	4	3	5	4	5	3
01:00	*	*	*	*	*	*	0	0	2	0	5	3	8	4	4	2
02:00	*	*	*	*	*	*	0	1	0	2	1	4	0	0	0	2
03:00	*	*	*	*	*	*	2	1	3	4	2	3	0	0	2	2
04:00	*	*	*	*	*	*	0	3	3	3	0	1	1	3	1	2
05:00	*	*	*	*	*	*	2	4	2	3	6	2	0	0	2	2
06:00	*	*	*	*	*	*	23	14	16	6	9	3	10	3	14	6
07:00	*	*	*	*	*	*	13	16	22	22	10	9	13	11	14	14
08:00	*	*	*	*	*	*	14	20	19	16	5	10	18	12	14	14
09:00	*	*	*	*	*	*	7	16	7	6	17	11	4	12	9	11
10:00	*	*	*	*	*	*	11	12	30	9	14	10	10	9	16	10
11:00	*	*	*	*	*	*	8	7	32	19	9	12	19	8	17	12
12:00 PM	*	*	*	*	*	*	6	10	41	13	9	7	17	14	18	11
01:00	*	*	*	*	13	16	10	17	29	8	16	20	14	15	16	15
02:00	*	*	*	*	18	28	12	24	42	11	12	12	18	16	21	18
03:00	*	*	*	*	23	25	23	37	31	22	5	15	18	22	20	24
04:00	*	*	*	*	17	36	14	32	17	22	12	18	11	12	14	24
05:00	*	*	*	*	20	22	11	12	10	19	7	11	15	15	13	16
06:00	*	*	*	*	10	18	8	14	7	16	11	23	10	7	9	16
07:00	*	*	*	*	12	14	7	7	3	14	6	15	10	14	8	13
08:00	*	*	*	*	7	10	7	9	10	5	10	5	12	14	9	9
09:00	*	*	*	*	15	8	11	2	15	13	10	1	8	12	12	7
10:00	*	*	*	*	4	11	7	13	5	11	3	18	6	4	5	11
11:00	*	*	*	*	3	9	8	11	10	8	9	13	5	2	7	9
Lane	0	0	0	0	142	197	211	282	360	256	192	229	234	213	250	253
Day	0		0		339		493		616		421		447		503	
AM Peak	-	-	-	-	-	-	06:00	08:00	11:00	07:00	09:00	11:00	11:00	08:00	11:00	07:00
Vol.	-	-	-	-	-	-	23	20	32	22	17	12	19	12	17	14
PM Peak	-	-	-	-	15:00	16:00	15:00	15:00	14:00	15:00	13:00	18:00	14:00	15:00	14:00	15:00
Vol.	-	-	-	-	23	36	23	37	42	22	16	23	20	22	21	24

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: Munson Place
 240' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(C) Munson Place North Of CR 520 (Newman Springs Road)

Northbd, Southbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	1	0	0	0	0	0	0	0	0	0	0	0	0	3	4
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	2	3
05:00	1	2	1	0	0	0	0	0	0	0	0	0	0	10	14
06:00	2	11	0	0	0	0	0	0	0	0	0	0	0	10	23
07:00	3	11	1	0	0	0	0	0	0	0	0	0	0	20	35
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	27	2	0	0	0	0	0	0	0	0	0	0	46	82
Percent	8.5%	32.9%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	56.1%	
AM Peak	07:00	06:00	05:00											07:00	
Vol.	3	11	1											20	

PM Peak Vol

Grand Total	379	1056	136	1	14	5	0	0	0	0	0	0	0	1888	3479
Percent	10.9%	30.4%	3.9%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.3%	

Location: Munson Place
 240' North Of CR 520 (Newman Springs Road).
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19

Date End: 22-May-19

(S) Munson Place North Of CR 520 (Newman Springs Road)

Northbd, Southbd	1	4	7	10	13	16	19	22	25	28	31	34	37	40	Total	Pace Speed	Number in Pace
Start Time	3	6	9	12	15	18	21	24	27	30	33	36	39	999			
05/22/19	3	0	0	0	0	0	0	1	0	0	0	0	0	0	4	1-10	3
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5-14	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	*	1
04:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	3-12	3
05:00	3	0	4	6	0	1	0	0	0	0	0	0	0	0	14	3-12	11
06:00	5	0	2	10	4	1	1	0	0	0	0	0	0	0	23	7-16	16
07:00	11	3	7	9	3	0	1	0	1	0	0	0	0	0	35	1-10	24
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	23	3	14	27	9	2	2	1	1	0	0	0	0	0	82		
Percent	28.0%	3.7%	17.1%	32.9%	11.0%	2.4%	2.4%	1.2%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	07:00	07:00	06:00	06:00	05:00	06:00	00:00	07:00								07:00
Vol.	11	3	7	10	4	1	1	1	1								35
PM Peak																	
Vol.	1117	117	423	919	625	144	71	40	15	8	0	0	0	0	3479		
Percent	32.1%	3.4%	12.2%	26.4%	18.0%	4.1%	2.0%	1.1%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%			

15th Percentile :	1 MPH
50th Percentile :	9 MPH
85th Percentile :	13 MPH
95th Percentile :	17 MPH
Stats	
10 MPH Pace Speed :	7-16 MPH
Number in Pace :	2015
Percent in Pace :	57.9%
Number of Vehicles > 55 MPH :	0
Percent of Vehicles > 55 MPH :	0.0%
Mean Speed(Average) :	9 MPH

#2

TRAFFIC ENUMERATOR
WORK REPORT

CODE _____ TOWN Tinton Falls Borough DATE 5/15/19

LOCATION C.R. 520 (Newman Springs Rd), 280' west of C.R. 51 (Horse Ave)

DIRECTION OF ROAD TUBE NO. 1 Eastbound L-5
ONE DIRECTION

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 10:28 AM

PICK UP: DATE 5/22/19 TIME 9:57 AM

SER. NO. 28875 MODEL APOLSON POLE NO. JL404 ANS

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 5/16/19 the counter & tubes are ok. 5/17/19 ^{took the counter} plates & tubes are ok.
5/20/19 the counter & tubes are ok. 5/21/19 ^{the} counter & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Patrick + Banett










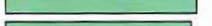














7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 280' West Of CR 51 (Hance Avenue).
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 520 (Newman Springs Road) West Of CR 51 (Hance Avenue)

Start Time	Mon 05/13/19	Tue 05/14/19	Wed 05/15/19	Thu 05/16/19	Fri 05/17/19	Average Day	Sat 05/18/19	Sun 05/19/19	Week Average			
12:00 AM	*	*	*	90	99	94	166	187	136 			
01:00	*	*	*	57	62	60	94	108	80 			
02:00	*	*	*	24	39	32	66	57	46 			
03:00	*	*	*	18	30	24	36	43	32 			
04:00	*	*	*	53	51	52	43	36	46 			
05:00	*	*	*	159	164	162	103	55	120 			
06:00	*	*	*	590	547	568	257	143	384 			
07:00	*	*	*	1231	1231	1231	538	367	842 			
08:00	*	*	*	1354	1406	1380	856	485	1025 			
09:00	*	*	*	1194	1131	1162	980	621	982 			
10:00	*	*	*	982	1021	1002	966	835	951 			
11:00	*	*	979	1046	1100	1042	1128	1016	1054 			
12:00 PM	*	*	1026	1122	1070	1073	1063	973	1051 			
01:00	*	*	1026	1021	994	1014	1044	920	1001 			
02:00	*	*	1072	1032	1018	1041	933	835	978 			
03:00	*	*	886	1186	1070	1047	915	781	968 			
04:00	*	*	1348	1143	1089	1193	953	631	1033 			
05:00	*	*	1314	1310	1155	1260	927	573	1056 			
06:00	*	*	1193	1386	1292	1290	847	615	1067 			
07:00	*	*	959	968	918	948	765	565	835 			
08:00	*	*	602	672	584	619	512	455	565 			
09:00	*	*	443	512	463	473	418	297	427 			
10:00	*	*	290	372	361	341	383	218	325 			
11:00	*	*	137	212	268	206	323	117	211 			
Day Total	0	0	11275	17734	17163	17314	14316	10933	15215			
% Avg. WkDay	0.0%	0.0%	65.1%	102.4%	99.1%							
% Avg. Week	0.0%	0.0%	74.1%	116.6%	112.8%	113.8%	94.1%	71.9%				
Peak	-	-	11:00	08:00	08:00	-	08:00	-	11:00	-	-	
Vol.	-	-	979	1354	1406	-	1380	-	1128	1016	-	-
Peak	-	-	16:00	18:00	18:00	-	18:00	-	12:00	12:00	-	-
Vol.	-	-	1348	1386	1292	-	1290	-	1063	973	-	-

Location:CR 520 (Newman Springs Road)
 280' West Of CR 51 (Hance Avenue).
 Municipality:Tinton Falls Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 520 (Newman Springs Road) West Of CR 51 (Hance Avenue)

Start Time	Mon 05/20/19	Tue 05/21/19	Wed 05/22/19	Thu 05/23/19	Fri 05/24/19	Average Day	Sat 05/25/19	Sun 05/26/19	Week Average
12:00 AM	89	89	99	*	*	92	*	*	92
01:00	46	49	43	*	*	46	*	*	46
02:00	30	28	23	*	*	27	*	*	27
03:00	23	27	23	*	*	24	*	*	24
04:00	58	46	45	*	*	50	*	*	50
05:00	182	177	164	*	*	174	*	*	174
06:00	582	565	592	*	*	580	*	*	580
07:00	1164	1155	1084	*	*	1134	*	*	1134
08:00	1391	1363	1136	*	*	1297	*	*	1297
09:00	1143	1230	*	*	*	1186	*	*	1186
10:00	1010	966	*	*	*	988	*	*	988
11:00	687	989	*	*	*	838	*	*	838
12:00 PM	1038	967	*	*	*	1002	*	*	1002
01:00	1025	1028	*	*	*	1026	*	*	1026
02:00	1012	1087	*	*	*	1050	*	*	1050
03:00	1062	1241	*	*	*	1152	*	*	1152
04:00	1109	1207	*	*	*	1158	*	*	1158
05:00	1226	1303	*	*	*	1264	*	*	1264
06:00	1184	1202	*	*	*	1193	*	*	1193
07:00	939	890	*	*	*	914	*	*	914
08:00	539	584	*	*	*	562	*	*	562
09:00	367	399	*	*	*	383	*	*	383
10:00	270	265	*	*	*	268	*	*	268
11:00	146	143	*	*	*	144	*	*	144
Day Total	16322	17000	3209	0	0	16552	0	0	16552
% Avg. WkDay	98.6%	102.7%	19.4%	0.0%	0.0%				
% Avg. Week	98.6%	102.7%	19.4%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	-	-	08:00	-	-	08:00
Vol.	1391	1363	1136	-	-	1297	-	-	1297
PM Peak	17:00	17:00	-	-	-	17:00	-	-	17:00
Vol.	1226	1303	-	-	-	1264	-	-	1264
Grand Total	16322	17000	14484	17734	17163	33866	14316	10933	31767
ADT	ADT 15,709		AADT 15,709						

Location:CR 520 (Newman Springs Road)
 280' West Of CR 51 (Hance Avenue).
 Municipality:Tinton Falls Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(C) CR 520 (Newman Springs Road) West Of CR 51 (Hance Avenue)

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	0	67	16	0	3	0	0	1	0	0	0	0	0	12	99
01:00	0	24	4	0	1	0	0	0	0	0	0	0	0	14	43
02:00	0	17	2	0	1	1	0	0	0	0	0	0	0	2	23
03:00	0	18	5	0	0	0	0	0	0	0	0	0	0	0	23
04:00	0	36	5	0	2	0	0	0	0	0	0	0	0	2	45
05:00	0	125	25	0	11	0	0	1	0	0	0	0	0	2	164
06:00	6	419	97	3	30	2	1	4	0	0	1	0	0	29	592
07:00	1	270	54	4	18	0	0	3	0	0	0	0	0	734	1084
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1136	1136
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	976	208	7	66	3	1	9	0	0	1	0	0	1931	3209
Percent	0.2%	30.4%	6.5%	0.2%	2.1%	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	60.2%	
AM Peak	06:00	06:00	06:00	07:00	06:00	06:00	06:00	06:00			06:00			08:00	
Vol.	6	419	97	4	30	2	1	4			1			1136	

PM Peak Vol

Grand Total	1006	78075	10851	539	2403	293	29	632	48	80	66	14	16	13900	107952
Percent	0.9%	72.3%	10.1%	0.5%	2.2%	0.3%	0.0%	0.6%	0.0%	0.1%	0.1%	0.0%	0.0%	12.9%	

Location:CR 520 (Newman Springs Road)
 280' West Of CR 51 (Hance Avenue).
 Municipality:Tinton Falls Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(S) CR 520 (Newman Springs Road) West Of CR 51 (Hance Avenue)

Eastbd	Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
05/22/19	12	0	0	3	9	21	29	17	6	0	2	0	0	0	0	99	36-45	50
	01:00	14	0	1	0	7	7	12	2	0	0	0	0	0	0	43	36-45	19
	02:00	2	0	1	0	5	4	6	2	2	0	1	0	0	0	23	34-43	10
	03:00	0	0	0	0	3	5	9	2	3	0	1	0	0	0	23	36-45	14
	04:00	2	0	1	1	4	9	9	11	7	1	0	0	0	0	45	40-49	20
	05:00	2	0	0	5	10	44	35	33	18	12	4	1	0	0	164	36-45	79
	06:00	35	11	28	53	105	155	84	66	38	13	1	3	0	0	592	31-40	260
	07:00	739	10	13	40	73	80	63	33	20	11	0	2	0	0	1084	1-10	493
	08:00	1136	0	0	0	0	0	0	0	0	0	0	0	0	0	1136	6-15	757
	09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	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	1942	21	44	102	216	325	247	166	94	37	9	6	0	0	3209		
	Percent	60.5%	0.7%	1.4%	3.2%	6.7%	10.1%	7.7%	5.2%	2.9%	1.2%	0.3%	0.2%	0.0%	0.0%			
AM Peak	08:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	05:00	06:00			08:00		
	Vol.	1136	11	28	53	105	155	84	66	38	13	4	3			1136		

PM Peak	Vol.	Total	Percent
	Vol.	20162	15.7%
	Vol.	7595	7.0%
	Vol.	10855	10.1%
	Vol.	12978	12.0%
	Vol.	15402	14.3%
	Vol.	15532	14.4%
	Vol.	11805	10.9%
	Vol.	8085	7.5%
	Vol.	4020	3.7%
	Vol.	1224	1.1%
	Vol.	238	0.2%
	Vol.	50	0.0%
	Vol.	6	0.0%
	Vol.	0	0.0%
	Vol.	107952	

15th Percentile :	12 MPH
50th Percentile :	30 MPH
85th Percentile :	43 MPH
95th Percentile :	50 MPH
Stats	
10 MPH Pace Speed :	31-40 MPH
Number in Pace :	30934
Percent in Pace :	28.7%
Number of Vehicles > 55 MPH :	1518
Percent of Vehicles > 55 MPH :	1.4%
Mean Speed(Average) :	30 MPH

#6

TRAFFIC ENUMERATOR
WORK REPORT

CODE _____ TOWN Tinton Falls BOROUGH Borough DATE 5/15/19
LOCATION CR 51 (C. Hance Ave) 520 South of CR 520 (Newma Springs rd)
DIRECTION OF ROAD TUBE NO. 1 Southbound

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 12:47 PM

PICK UP: DATE 5/22/19 TIME 9:58 AM

SER. NO. 28876 MODEL Apexion POLE NO. B+ 1892

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS: 5/16/19 ^{the} counts & tubes are ok. 5/17/19 ^{took} photos ^{the camera &} tubes are ok.

5/20/19 ^{the} counts & tubes are ok. 5/21/19 ^{the} counts & tubes are ok.

REPAIR REQUEST _____

SIGNATURE Potter & Bennett

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Road).
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Start Time	05/13/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd
12:00 AM	*	*	*	*	*	*	25	28	22	25	56	63	55	39	40	39
01:00	*	*	*	*	*	*	19	18	22	15	27	25	29	30	24	22
02:00	*	*	*	*	*	*	9	19	16	11	29	12	19	16	18	14
03:00	*	*	*	*	*	*	5	13	4	15	8	13	17	13	8	14
04:00	*	*	*	*	*	*	16	54	16	55	8	18	12	13	13	35
05:00	*	*	*	*	*	*	60	158	58	121	35	39	13	35	42	88
06:00	*	*	*	*	*	*	190	446	188	342	85	109	51	66	128	241
07:00	*	*	*	*	*	*	530	628	708	535	344	180	89	134	418	369
08:00	*	*	*	*	*	*	860	584	1021	538	494	264	172	167	637	388
09:00	*	*	*	*	*	*	619	449	539	504	524	371	409	307	523	408
10:00	*	*	*	*	*	*	436	408	424	684	448	440	382	306	422	460
11:00	*	*	*	*	*	*	479	376	465	680	568	432	392	535	476	506
12:00 PM	*	*	*	*	*	*	526	466	655	579	523	420	353	656	514	530
01:00	*	*	*	*	639	462	590	462	711	423	490	393	347	667	555	481
02:00	*	*	*	*	673	528	639	501	960	432	446	413	450	563	634	487
03:00	*	*	*	*	633	536	665	594	702	494	521	391	491	544	602	512
04:00	*	*	*	*	1006	542	871	590	638	533	521	414	370	549	681	526
05:00	*	*	*	*	1034	518	996	494	676	486	436	419	406	451	710	474
06:00	*	*	*	*	781	506	813	429	735	408	483	338	337	347	630	406
07:00	*	*	*	*	606	410	553	368	575	273	311	272	247	228	458	310
08:00	*	*	*	*	298	289	273	268	365	220	161	198	262	185	272	232
09:00	*	*	*	*	166	213	142	153	178	193	127	148	151	119	153	165
10:00	*	*	*	*	100	135	120	101	140	140	131	127	107	89	120	118
11:00	*	*	*	*	44	72	67	57	89	108	110	84	51	60	72	76
Lane	0	0	0	0	5980	4211	9503	7664	9907	7814	6886	5583	5212	6119	8150	6901
Day	0	0	0	0	10191	17167	17721	12469	11331	15051						
AM Peak	-	-	-	-	-	-	08:00	07:00	08:00	10:00	11:00	10:00	09:00	11:00	08:00	11:00
Vol.	-	-	-	-	-	-	860	628	1021	684	568	440	409	535	637	506
PM Peak	-	-	-	-	17:00	16:00	17:00	15:00	14:00	12:00	12:00	12:00	15:00	13:00	17:00	12:00
Vol.	-	-	-	-	1034	542	996	594	960	579	523	420	491	667	710	530

7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Road).
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(V) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Start Time	05/20/19		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd	Southbd	Northbd
12:00 AM	26	28	29	33	28	19	*	*	*	*	*	*	*	*	28	27
01:00	17	19	15	14	17	10	*	*	*	*	*	*	*	*	16	14
02:00	8	8	10	6	8	13	*	*	*	*	*	*	*	*	9	9
03:00	12	17	6	13	5	16	*	*	*	*	*	*	*	*	8	15
04:00	23	69	17	55	18	56	*	*	*	*	*	*	*	*	19	60
05:00	53	174	63	166	49	162	*	*	*	*	*	*	*	*	55	167
06:00	189	401	183	411	201	389	*	*	*	*	*	*	*	*	191	400
07:00	712	594	665	616	584	614	*	*	*	*	*	*	*	*	654	608
08:00	987	564	919	633	940	604	*	*	*	*	*	*	*	*	949	600
09:00	495	462	791	438	*	*	*	*	*	*	*	*	*	*	643	450
10:00	425	369	582	362	*	*	*	*	*	*	*	*	*	*	504	366
11:00	442	421	537	375	*	*	*	*	*	*	*	*	*	*	490	398
12:00 PM	550	469	514	412	*	*	*	*	*	*	*	*	*	*	532	440
01:00	484	380	665	381	*	*	*	*	*	*	*	*	*	*	574	380
02:00	509	458	724	509	*	*	*	*	*	*	*	*	*	*	616	484
03:00	545	583	921	536	*	*	*	*	*	*	*	*	*	*	733	560
04:00	722	555	909	563	*	*	*	*	*	*	*	*	*	*	816	559
05:00	952	574	1020	528	*	*	*	*	*	*	*	*	*	*	986	551
06:00	811	383	804	447	*	*	*	*	*	*	*	*	*	*	808	415
07:00	576	285	417	392	*	*	*	*	*	*	*	*	*	*	496	338
08:00	325	257	203	274	*	*	*	*	*	*	*	*	*	*	264	266
09:00	206	190	139	155	*	*	*	*	*	*	*	*	*	*	172	172
10:00	107	113	88	90	*	*	*	*	*	*	*	*	*	*	98	102
11:00	43	60	46	54	*	*	*	*	*	*	*	*	*	*	44	57
Lane	9219	7433	10267	7463	1850	1883	0	0	0	0	0	0	0	0	9705	7438
Day	16652		17730		3733		0	0	0	0	0	0	0		17143	
AM Peak	08:00	07:00	08:00	08:00	08:00	07:00	-	-	-	-	-	-	-	-	08:00	07:00
Vol.	987	594	919	633	940	614	-	-	-	-	-	-	-	-	949	608
PM Peak	17:00	15:00	17:00	16:00	-	-	-	-	-	-	-	-	-	-	17:00	15:00
Vol.	952	583	1020	563	-	-	-	-	-	-	-	-	-	-	986	560

Comb. Total	16652	17730	13924	17167	17721	12469	11331	32194
ADT	ADT 15,832	AADT 15,832						

Location:CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Road).
 Municipality:Tinton Falls Borough
 Counted By:Patrick T Barrett

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(C) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Southbd, Northbd

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	0	40	5	0	2	0	0	0	0	0	0	0	0	0	47
01:00	0	20	5	0	2	0	0	0	0	0	0	0	0	0	27
02:00	0	18	3	0	0	0	0	0	0	0	0	0	0	0	21
03:00	0	14	6	0	1	0	0	0	0	0	0	0	0	0	21
04:00	1	61	7	0	4	0	0	0	0	0	0	0	0	1	74
05:00	1	158	37	1	8	1	0	0	0	0	0	0	0	5	211
06:00	3	447	76	9	31	4	0	0	0	0	0	0	0	20	590
07:00	79	738	116	11	27	7	1	3	1	0	0	0	0	215	1198
08:00	350	657	88	11	22	7	1	3	1	0	0	0	0	404	1544
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	434	2153	343	32	97	19	2	6	2	0	0	0	0	645	3733
Percent	11.6%	57.7%	9.2%	0.9%	2.6%	0.5%	0.1%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	17.3%	
AM Peak	08:00	07:00	07:00	07:00	06:00	07:00	07:00	07:00	07:00					08:00	
Vol.	350	738	116	11	31	7	1	3	1					404	

PM Peak Vol.	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
Grand Total	16694	51002	8567	336	1808	455	32	188	22	4	0	0	1	27885	106994
Percent	15.6%	47.7%	8.0%	0.3%	1.7%	0.4%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	26.1%	

Location: CR 51 (Hance Avenue)
 520' South Of CR 520 (Newman Springs Road).
 Municipality: Tinton Falls Borough
 Counted By: Patrick T Barrett

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(S) CR 51 (Hance Avenue) South Of CR 520 (Newman Springs Road)

Southbd, Northbd

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
05/22/19	0	0	0	3	16	19	7	1	0	1	0	0	0	0	47	31-40	35
01:00	1	0	0	1	9	5	10	1	0	0	0	0	0	0	27	34-43	15
02:00	0	0	0	2	10	5	3	1	0	0	0	0	0	0	21	31-40	15
03:00	1	0	0	0	6	7	6	1	0	0	0	0	0	0	21	31-40	13
04:00	2	0	0	2	18	29	18	4	1	0	0	0	0	0	74	32-41	47
05:00	5	0	1	4	40	87	62	9	2	1	0	0	0	0	211	36-45	149
06:00	20	2	21	30	139	250	109	19	0	0	0	0	0	0	590	31-40	389
07:00	247	55	63	114	246	372	98	3	0	0	0	0	0	0	1198	31-40	618
08:00	473	357	112	125	217	208	50	1	1	0	0	0	0	0	1544	11-20	515
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	749	414	197	281	701	982	363	40	4	2	0	0	0	0	3733		
Percent	20.1%	11.1%	5.3%	7.5%	18.8%	26.3%	9.7%	1.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	08:00	08:00	08:00	07:00	07:00	06:00	06:00	05:00	00:00					08:00		
Vol.	473	357	112	125	246	372	109	19	2	1					1544		
PM Peak																	
Vol.	30396	15242	3841	8181	20760	21573	6209	701	76	9	3	2	0	1	106994		
Percent	28.4%	14.2%	3.6%	7.6%	19.4%	20.2%	5.8%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile :	7 MPH
50th Percentile :	27 MPH
85th Percentile :	37 MPH
95th Percentile :	41 MPH
Stats	
10 MPH Pace Speed :	31-40 MPH
Number in Pace :	42333
Percent in Pace :	39.6%
Number of Vehicles > 55 MPH :	15
Percent of Vehicles > 55 MPH :	0.0%
Mean Speed(Average) :	25 MPH

TRAFFIC ENUMERATOR
WORK REPORT

#5

CODE _____ TOWN Rep Bank Borough DATE 5/15/19

LOCATION CR 520C ^{Newmans Springs} Road 1 } 530' East of Knight Street

DIRECTION OF ROAD TUBE NO. 1 Westbound - L-5
ONE DIRECTION

PRIORITY 1 2 3

AUTOMATIC TRAFFIC RECORDER COUNT

TYPE OF COUNT: VOLUME CLASSIFICATION SPEED

INSTALLED: DATE 5/15/19 TIME 11:49 AM

PICK UP: DATE 5/22/19 TIME 10:24 AM

SER. NO. 31441 MODEL APOLLYON POLE NO. 5162

NO
STOPPING
OR
STANDING

MANUAL INTERSECTION MOVEMENT COUNT

HOURS OF COUNT: 7 AM to 9 AM, 11 AM to 2 PM, 4 PM to 7 PM

OTHER _____

REQUESTED BY _____ DATE _____

REMARKS 5/16/19 ^{the} count on tully creek. 5/17/19 ^{took the counter &} photo tully creek.
5/20/19 ^{the} count on tully creek.

REPAIR REQUEST 5/22/19 Replaced A tube continued count 5:35 AM

SIGNATURE Patrick Bennett

























7-Day (24 Hour) Automated Traffic Recorder Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Location:CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(1 of 2) (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 05/13/19	Tue 05/14/19	Wed 05/15/19	Thu 05/16/19	Fri 05/17/19	Average Day	Sat 05/18/19	Sun 05/19/19	Week Average					
12:00 AM	*	*	*	81	87	84	173	221	140 					
01:00	*	*	*	40	58	49	84	114	74 					
02:00	*	*	*	24	40	32	53	71	47 					
03:00	*	*	*	41	35	38	25	28	32 					
04:00	*	*	*	115	85	100	58	45	76 					
05:00	*	*	*	285	261	273	114	67	182 					
06:00	*	*	*	641	549	595	261	136	397 					
07:00	*	*	*	941	885	913	447	250	631 					
08:00	*	*	*	972	932	952	517	371	698 					
09:00	*	*	*	766	761	764	674	486	672 					
10:00	*	*	*	708	632	670	761	671	693 					
11:00	*	*	*	836	657	746	867	779	785 					
12:00 PM	*	*	823	894	758	825	953	847	855 					
01:00	*	*	856	953	774	861	914	1031	906 					
02:00	*	*	1123	1128	898	1050	838	932	984 					
03:00	*	*	1079	1288	1134	1167	952	1004	1091 					
04:00	*	*	1296	1263	1164	1241	946	1062	1146 					
05:00	*	*	1282	1238	1145	1222	961	959	1117 					
06:00	*	*	1049	981	928	986	836	709	901 					
07:00	*	*	827	822	702	784	656	536	709 					
08:00	*	*	711	709	594	671	602	406	604 					
09:00	*	*	443	484	507	478	528	277	448 					
10:00	*	*	314	287	490	364	620	200	382 					
11:00	*	*	166	291	317	258	371	127	254 					
Day Total	0	0	9969	15788	14393	15123	13211	11329	13824					
% Avg. WkDay	0.0%	0.0%	65.9%	104.4%	95.2%									
% Avg. Week	0.0%	0.0%	72.1%	114.2%	104.1%	109.4%	95.6%	82.0%						
AM Peak	-	-	-	08:00	08:00	-	08:00	-	11:00	11:00	-	11:00	-	-
Vol.	-	-	-	972	932	-	952	-	867	779	-	785	-	-
PM Peak	-	-	16:00	15:00	16:00	-	16:00	-	17:00	16:00	-	16:00	-	-
Vol.	-	-	1296	1288	1164	-	1241	-	961	1062	-	1146	-	-

7-Day (24 Hour) Automated Traffic Recorder Count

Location: CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Monmouth County Traffic Safety Engineering 1 E. Main Street, Hall Of Records Annex Freehold, N.J. 07728

Site Code:

Date Start: 05/15/19
 Date End: 05/22/19

(1 of 2) (V) CR 520 (Newman Springs Road) East Of Knight Street

Start Time	Mon 05/20/19	Tue 05/21/19	Wed 05/22/19	Thu 05/23/19	Fri 05/24/19	Average Day	Sat 05/25/19	Sun 05/26/19	Week Average
12:00 AM	65	66	60	*	*	64	*	*	64
01:00	34	35	34	*	*	34	*	*	34
02:00	25	26	22	*	*	24	*	*	24
03:00	34	31	30	*	*	32	*	*	32
04:00	111	103	99	*	*	104	*	*	104
05:00	310	351	288	*	*	316	*	*	316
06:00	620	633	664	*	*	639	*	*	639
07:00	911	955	882	*	*	916	*	*	916
08:00	982	1056	995	*	*	1011	*	*	1011
09:00	708	750	772	*	*	743	*	*	743
10:00	598	683	*	*	*	640	*	*	640
11:00	664	769	*	*	*	716	*	*	716
12:00 PM	652	788	*	*	*	720	*	*	720
01:00	694	857	*	*	*	776	*	*	776
02:00	750	1014	*	*	*	882	*	*	882
03:00	1014	1166	*	*	*	1090	*	*	1090
04:00	1245	1290	*	*	*	1268	*	*	1268
05:00	1174	1242	*	*	*	1208	*	*	1208
06:00	902	927	*	*	*	914	*	*	914
07:00	636	621	*	*	*	628	*	*	628
08:00	539	744	*	*	*	642	*	*	642
09:00	437	591	*	*	*	514	*	*	514
10:00	223	228	*	*	*	226	*	*	226
11:00	126	137	*	*	*	132	*	*	132
Day Total	13454	15063	3846	0	0	14239	0	0	14239
% Avg. WkDay	94.5%	105.8%	27.0%	0.0%	0.0%				
% Avg. Week	94.5%	105.8%	27.0%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	-	-	08:00	-	-	08:00
Vol.	982	1056	995	-	-	1011	-	-	1011
PM Peak	16:00	16:00	-	-	-	16:00	-	-	16:00
Vol.	1245	1290	-	-	-	1268	-	-	1268
Grand Total	13454	15063	13815	15788	14393	29362	13211	11329	28063

ADT ADT 14,070 AADT 14,070

7-Day (24 Hour) Vehicle Classification Count
Monmouth County Traffic Safety Engineering
1 E. Main Street,Hall Of Records Annex
Freehold, N.J. 07728

Location:CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality:Red Bank Borough
 Counted By:Patrick T Barrett

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(1 of 2) (C) CR 520 (Newman Springs Road) East Of Knight Street

Westbd Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
05/22/19	0	51	7	0	2	0	0	0	0	0	0	0	0	0	60
01:00	1	27	4	0	2	0	0	0	0	0	0	0	0	0	34
02:00	0	16	4	0	1	0	0	0	1	0	0	0	0	0	22
03:00	0	26	3	0	1	0	0	0	0	0	0	0	0	0	30
04:00	0	71	22	2	2	1	0	0	0	0	0	0	0	1	99
05:00	1	223	43	2	9	1	0	0	0	0	0	0	0	9	288
06:00	9	499	95	7	26	0	0	6	1	0	0	0	0	21	664
07:00	5	646	133	17	44	6	0	12	0	1	0	0	0	18	882
08:00	4	749	144	12	47	1	0	12	1	1	0	1	0	23	995
09:00	1	569	127	11	30	5	0	13	1	0	0	0	0	15	772
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	21	2877	582	51	164	14	0	43	4	2	0	1	0	87	3846
Percent	0.5%	74.8%	15.1%	1.3%	4.3%	0.4%	0.0%	1.1%	0.1%	0.1%	0.0%	0.0%	0.0%	2.3%	
AM Peak	06:00	08:00	08:00	07:00	08:00	07:00		09:00	02:00	07:00		08:00		08:00	
Vol.	9	749	144	17	47	6		13	1	1		1		23	
PM Peak															
Vol.															
Grand Total	688	72640	13783	714	3004	198	63	729	69	55	13	16	3	5078	97053
Percent	0.7%	74.8%	14.2%	0.7%	3.1%	0.2%	0.1%	0.8%	0.1%	0.1%	0.0%	0.0%	0.0%	5.2%	

7-Day (24 Hour) Speed Survey Vehicle Count
Monmouth County Traffic Safety Engineering
1 E. Main Street, Hall Of Records Annex
Freehold, N.J. 07728

Location: CR 520 (Newman Springs Road)
 536' East Of Knight Street.
 Municipality: Red Bank Borough
 Counted By: Patrick T Barrett

Site Code:

Date Start: 15-May-19
 Date End: 22-May-19

(1 of 1) (S) CR 520 (Newman Springs Road) East Of Knight Street

Westbd	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in Pace
05/22/19	0	0	0	2	8	16	17	11	6	0	0	0	0	0	60	36-45	33
01:00	0	0	0	0	5	12	12	4	1	0	0	0	0	0	34	36-45	24
02:00	0	0	1	0	5	7	7	2	0	0	0	0	0	0	22	35-44	14
03:00	0	0	0	0	3	8	11	6	2	0	0	0	0	0	30	36-45	19
04:00	1	0	0	1	5	22	37	23	10	0	0	0	0	0	99	39-48	60
05:00	9	0	2	1	9	46	92	95	28	4	2	0	0	0	288	41-50	187
06:00	21	1	1	3	16	63	199	257	82	19	2	0	0	0	664	41-50	456
07:00	18	3	3	11	24	93	316	294	97	17	3	3	0	0	882	41-50	610
08:00	21	1	5	6	18	108	405	322	95	13	1	0	0	0	995	41-50	727
09:00	17	2	7	11	27	95	279	236	87	10	1	0	0	0	772	41-50	515
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	87	7	19	35	120	470	1375	1250	408	63	9	3	0	0	3846		
Percent	2.3%	0.2%	0.5%	0.9%	3.1%	12.2%	35.8%	32.5%	10.6%	1.6%	0.2%	0.1%	0.0%	0.0%			
AM Peak	06:00	07:00	09:00	07:00	09:00	08:00	08:00	08:00	07:00	06:00	07:00	07:00			08:00		
Vol.	21	3	7	11	27	108	405	322	97	19	3	3			995		
PM Peak																	
Vol.																	
Total	5300	234	476	1261	4171	16186	33856	25664	8180	1438	233	37	8	9	97053		
Percent	5.5%	0.2%	0.5%	1.3%	4.3%	16.7%	34.9%	26.4%	8.4%	1.5%	0.2%	0.0%	0.0%	0.0%			

15th Percentile :	35 MPH
50th Percentile :	43 MPH
85th Percentile :	49 MPH
95th Percentile :	53 MPH
Stats	
10 MPH Pace Speed :	41-50 MPH
Number in Pace :	59520
Percent in Pace :	61.3%
Number of Vehicles > 55 MPH :	1725
Percent of Vehicles > 55 MPH :	1.8%
Mean Speed(Average) :	42 MPH

APPENDIX D

VEHICULAR CRASH DIAGRAMS

COLLISION DIAGRAM DATA

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
2	14:30	SAT	01-09-16	1	DRY	OVERCAST	DAY
4	16:40	TUE	01-19-16	0	DRY	CLEAR	DUSK
5	17:34	WED	01-20-16	2	DRY	CLEAR	DARK
7	18:06	SAT	01-30-16	0	WET	CLEAR	DARK
8	15:04	TUE	02-02-16	0	WET	CLEAR	DAY
11	06:00	TUE	02-16-16	0	WET	CLEAR	DARK
14	16:41	MON	02-22-16	0	DRY	CLEAR	DAY
15	16:59	TUE	03-01-16	0	DRY	CLEAR	DAY
22	10:36	MON	05-02-16	0	DRY	CLEAR	DAY
25	19:46	SUN	05-15-16	2	DRY	CLEAR	DUSK
26	16:11	SUN	05-22-16	0	DRY	CLEAR	DAY
29	10:27	WED	06-15-16	0	DRY	CLEAR	DAY
31	22:46	FRI	06-17-16	0	DRY	CLEAR	DARK
33	15:11	MON	06-20-16	2	DRY	CLEAR	DAY
36	11:33	FRI	07-08-16	0	DRY	CLEAR	DAY
42	00:43	FRI	08-12-16	0	DRY	CLEAR	DARK
44	08:12	THU	08-18-16	1	DRY	CLEAR	DAY
51	21:19	FRI	09-16-16	1	DRY	CLEAR	DARK
54	14:11	FRI	09-30-16	1	WET	RAIN	DAY
59	15:31	THU	10-27-16	0	WET	RAIN	DAY
60	23:29	THU	11-03-16	1	DRY	CLEAR	DARK
61	19:20	THU	11-10-16	0	DRY	CLEAR	DARK
63	15:00	TUE	11-15-16	0	DRY	CLEAR	DAY
64	11:11	SAT	11-26-16	0	DRY	CLEAR	DAY
67	08:11	FRI	12-16-16	0	DRY	CLEAR	DAY

COLLISION DIAGRAM DATA (cont.)

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
68	15:32	FRI	01-06-17	0	DRY	CLEAR	DAY
69	07:07	MON	01-09-17	0	SNOWY	CLEAR	DAY
71	16:00	FRI	02-03-17	0	DRY	CLEAR	DAY
73	13:36	FRI	02-10-17	0	DRY	CLEAR	DAY
74	16:02	WED	03-01-17	0	WET	CLEAR	DAY
79	13:00	SAT	04-08-17	6	DRY	CLEAR	DAY
83	17:40	MON	05-08-17	0	DRY	CLEAR	DAY
86	15:48	TUE	05-16-17	1	DRY	CLEAR	DAY
95	15:38	WED	06-07-17	0	DRY	CLEAR	DAY
97	16:08	THU	06-15-17	0	DRY	CLEAR	DAY
98	10:32	THU	06-15-17	0	DRY	CLEAR	DAY
101	07:05	THU	07-20-17	0	DRY	CLEAR	DAY
102	15:27	TUE	07-25-17	0	DRY	CLEAR	DAY
103	17:58	TUE	08-01-17	0	DRY	CLEAR	DAY
106	18:32	FRI	08-11-17	0	DRY	CLEAR	DAY
110	16:26	TUE	08-22-17	1	DRY	CLEAR	DAY
112	19:38	TUE	08-29-17	1	WET	RAIN	DARK
114	21:19	SAT	09-02-17	0	WET	RAIN	DARK
116	11:00	SAT	09-23-17	0	DRY	CLEAR	DAY
117	07:47	WED	09-27-17	0	WET	RAIN	DAY
120	12:50	MON	10-02-17	0	DRY	CLEAR	DAY
121	16:30	TUE	10-03-17	1	DRY	CLEAR	DAY
125	14:53	THU	10-26-17	0	WET	RAIN	DAY
126	09:03	MON	10-30-17	0	WET	CLEAR	DAY
127	15:05	THU	11-02-17	0	DRY	CLEAR	DAY
128	16:48	SAT	11-04-17	0	DRY	CLEAR	DAY
129	20:46	TUE	11-28-17	0	DRY	CLEAR	DARK
130	09:45	WED	11-29-17	0	DRY	CLEAR	DAY

MUNSON PL

KNIGHT ST

NEWMAN SPRINGS RD (CR 520)

HANCE AVE

SWIMMING RIVER

COLLISION DIAGRAM DATA (cont.)

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
145	10:06	MON	01-08-18	1	SNOWY	CLEAR	DAY
149	14:59	THU	02-01-18	0	DRY	OVERCAST	DAY
158	15:31	FRI	05-04-18	0	DRY	CLEAR	DAY
163	21:29	SAT	05-12-18	1	WET	RAIN	DARK
170	12:14	TUE	07-03-18	0	DRY	CLEAR	DAY
171	14:46	SAT	07-07-18	0	DRY	CLEAR	DAY
173	15:04	THU	07-19-18	0	DRY	CLEAR	DAY
179	08:48	TUE	08-21-18	0	DRY	CLEAR	DAY
180	17:44	MON	08-27-18	0	DRY	CLEAR	DAY
183	11:25	SAT	09-08-18	0	WET	RAIN	DAY
184	09:21	TUE	09-11-18	0	WET	OVERCAST	DAY
191	07:45	FRI	10-05-18	0	DRY	CLEAR	DAY
193	16:19	FRI	10-19-18	2	WET	CLEAR	DAY
201	16:55	FRI	11-30-18	1	DRY	CLEAR	DAY

LEGEND

NUMBER OF CRASHES WITH

PROPERTY DAMAGE ONLY	50
INJURIES	17
FATALITIES*	0
TOTAL NO. OF CRASHES	67

SYMBOLS

→	MOVING VEHICLE	→	BACKING VEHICLE
---	NON-INVOLVED VEHICLE	⊗	PEDESTRIAN
⊗	PROPERTY DAMAGE ONLY CRASH	⊗	BICYCLIST
⊙	INJURY IN CRASH	⊙	FATAL CRASH
□	FIXED OBJECT	△	ANIMAL
⊠	NON-FIXED OBJECT	⊗	POTHOLE

TYPES OF CRASHES

←	REAR END	↘	LEFT TURN
→	HEAD ON	↗	RIGHT ANGLE
↔	SIDE SWIPE	↖	STRUCK PARKED VEHICLE
~	OUT OF CONTROL		
o	OVERTURNED		

COLORS

⊙	2016 CRASHES
⊙	2017 CRASHES
⊙	2018 CRASHES

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13) RED BANK BOROUGH, MONMOUTH COUNTY

2016 - 2018 COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management

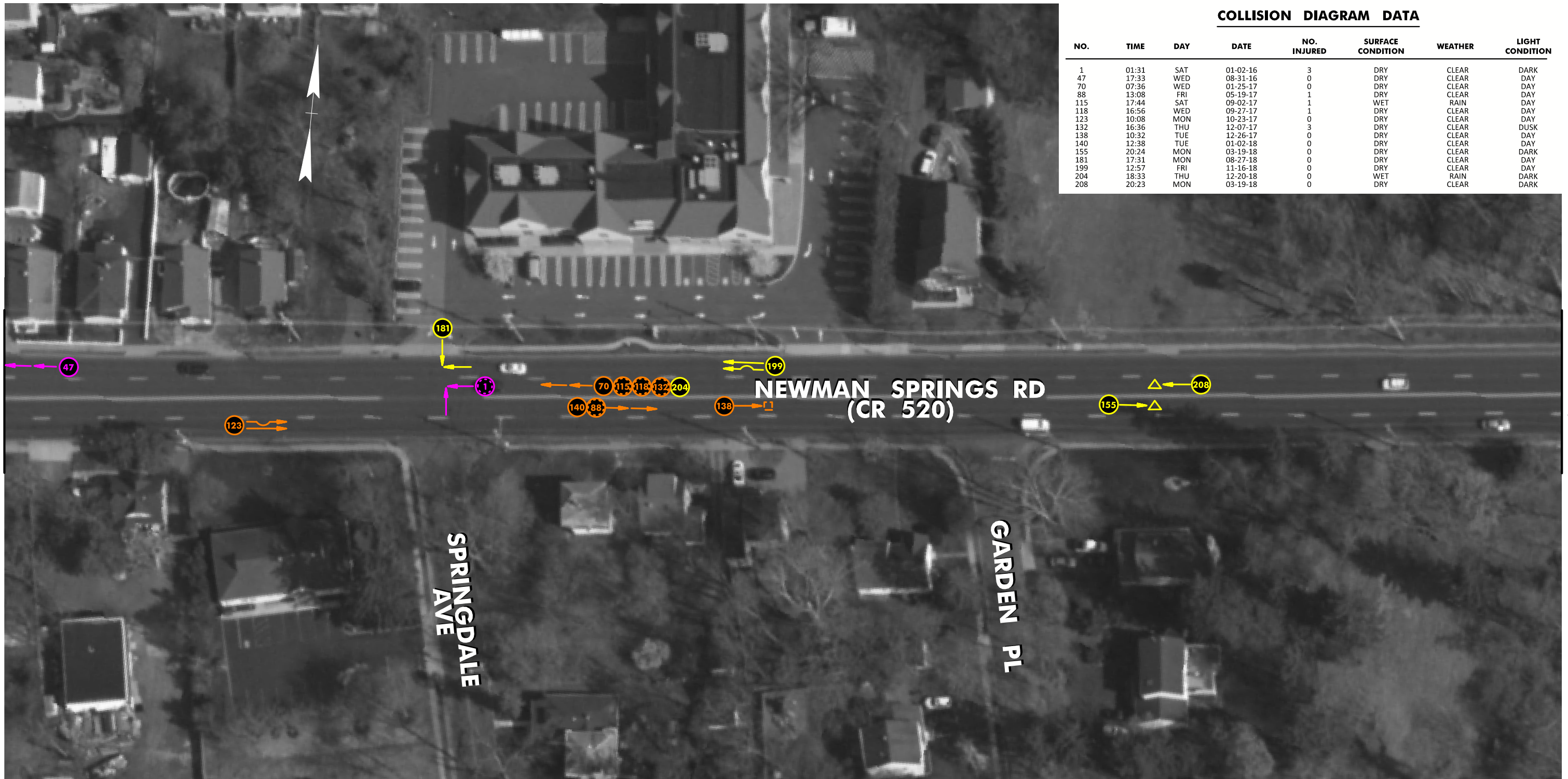
NOT TO SCALE

MATCH LINE A
SEE SHEET NO. 2 OF 5

1/5

COLLISION DIAGRAM DATA

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
1	01:31	SAT	01-02-16	3	DRY	CLEAR	DARK
47	17:33	WED	08-31-16	0	DRY	CLEAR	DAY
70	07:36	WED	01-25-17	0	DRY	CLEAR	DAY
88	13:08	FRI	05-19-17	1	DRY	CLEAR	DAY
115	17:44	SAT	09-02-17	1	WET	RAIN	DAY
118	16:56	WED	09-27-17	1	DRY	CLEAR	DAY
123	10:08	MON	10-23-17	0	DRY	CLEAR	DAY
132	16:36	THU	12-07-17	3	DRY	CLEAR	DUSK
138	10:32	TUE	12-26-17	0	DRY	CLEAR	DAY
140	12:38	TUE	01-02-18	0	DRY	CLEAR	DAY
155	20:24	MON	03-19-18	0	DRY	CLEAR	DARK
181	17:31	MON	08-27-18	0	DRY	CLEAR	DAY
199	12:57	FRI	11-16-18	0	DRY	CLEAR	DAY
204	18:33	THU	12-20-18	0	WET	RAIN	DARK
208	20:23	MON	03-19-18	0	DRY	CLEAR	DARK



LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	10
INJURIES	5
FATALITIES*	0
TOTAL NO. OF CRASHES	15

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	NON-FIXED OBJECT
	ANIMAL
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	2016 CRASHES
	2017 CRASHES
	2018 CRASHES

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13) RED BANK BOROUGH, MONMOUTH COUNTY

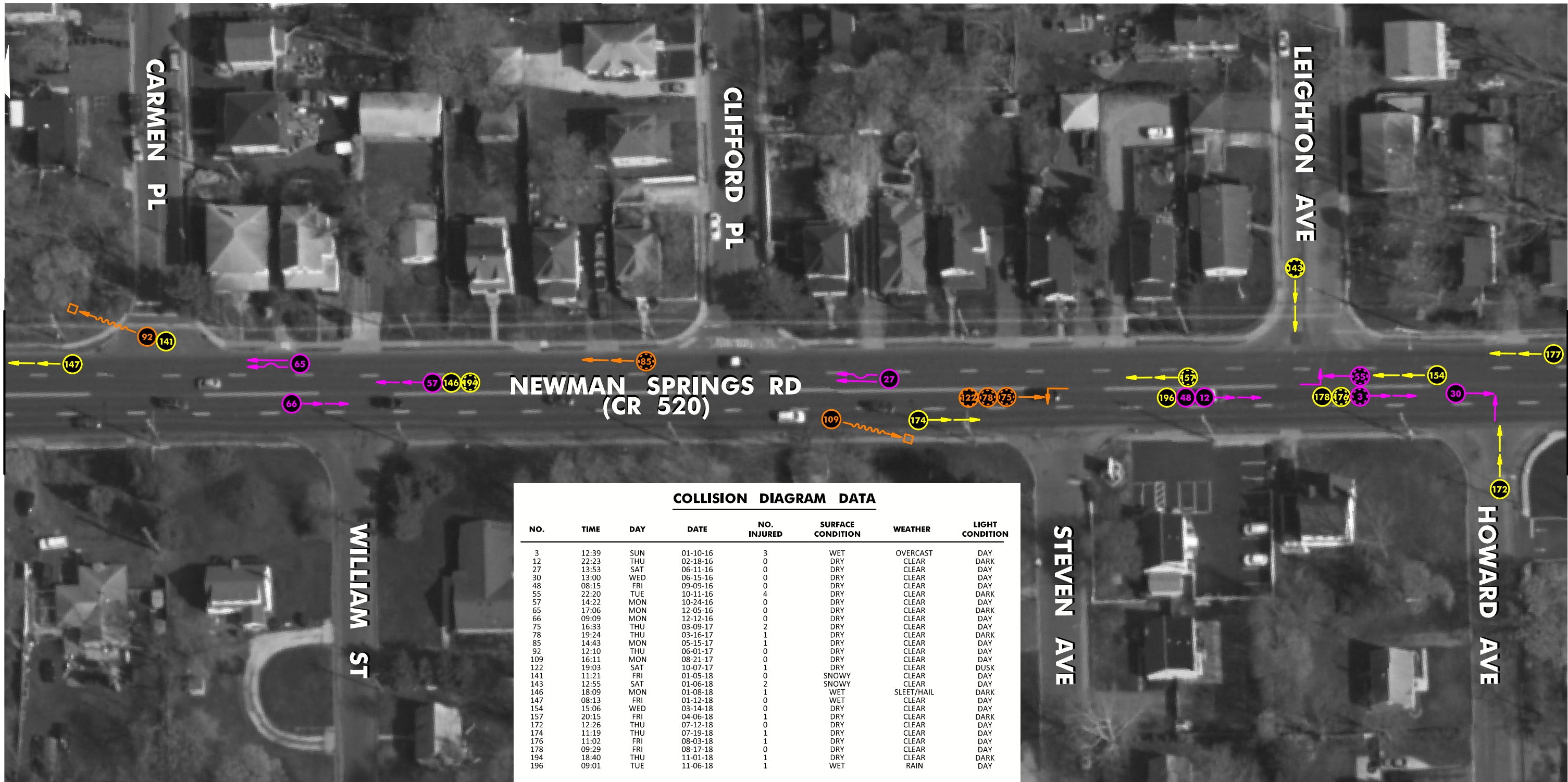
2016 - 2018 COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management

NOT TO SCALE

DATE: 8/27/2020
 TIME: 10:05:57 AM
 FILE: L:\2017659_HSP_Program_and_Project_Development\Support\NDDOT_HSP_Year_2_Catchway06_Monmouth_Collision_Diagram_Sheets\Veh_Sheet_02.dgn
 SEE SHEET NO. 1 OF 5
 MATCH LINE A
 MATCH LINE B
 SEE SHEET NO. 3 OF 5

FILE: L:\2017659_HSP_Program_and_Project_Development\Support\NDCOT_HSP_Year_2_CatchWay06_Monmouth_Collision_Diagram_Sheets\Veh_Sheet_03.dgn
 TIME: 10:02:25 AM
 DATE: 8/27/2020



COLLISION DIAGRAM DATA							
NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
3	12:39	SUN	01-10-16	3	WET	OVERCAST	DAY
12	22:23	THU	02-18-16	0	DRY	CLEAR	DARK
27	13:53	SAT	06-11-16	0	DRY	CLEAR	DAY
30	13:00	WED	06-15-16	0	DRY	CLEAR	DAY
48	08:15	FRI	09-09-16	0	DRY	CLEAR	DAY
55	22:20	TUE	10-11-16	4	DRY	CLEAR	DARK
57	14:22	MON	10-24-16	0	DRY	CLEAR	DAY
65	17:06	MON	12-05-16	0	DRY	CLEAR	DARK
66	09:09	MON	12-12-16	0	DRY	CLEAR	DAY
75	16:33	THU	03-09-17	2	DRY	CLEAR	DAY
78	19:24	THU	03-16-17	1	DRY	CLEAR	DARK
85	14:43	MON	05-15-17	1	DRY	CLEAR	DAY
92	12:10	THU	06-01-17	0	DRY	CLEAR	DAY
109	16:11	MON	08-21-17	0	DRY	CLEAR	DAY
122	19:03	SAT	10-07-17	1	DRY	CLEAR	DUSK
141	11:21	FRI	01-05-18	0	SNOWY	CLEAR	DAY
143	12:55	SAT	01-06-18	2	SNOWY	CLEAR	DAY
146	18:09	MON	01-08-18	1	WET	SLEET/HAIL	DARK
147	08:13	FRI	01-12-18	0	WET	CLEAR	DAY
154	15:06	WED	03-14-18	0	DRY	CLEAR	DAY
157	20:15	FRI	04-06-18	1	DRY	CLEAR	DARK
172	12:26	THU	07-12-18	0	DRY	CLEAR	DAY
174	11:19	THU	07-19-18	1	DRY	CLEAR	DAY
176	11:02	FRI	08-03-18	1	DRY	CLEAR	DAY
178	09:29	FRI	08-17-18	0	DRY	CLEAR	DAY
194	18:40	THU	11-01-18	1	DRY	CLEAR	DARK
196	09:01	TUE	11-06-18	1	WET	RAIN	DAY

LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	14
INJURIES	13
FATALITIES*	0
TOTAL NO. OF CRASHES	27

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	ANIMAL
	NON-FIXED OBJECT
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	2016 CRASHES
	2017 CRASHES
	2018 CRASHES

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13) RED BANK BOROUGH, MONMOUTH COUNTY

2016 - 2018 COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management

NOT TO SCALE

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 TIME: 10/16/20 AM
 DATE: 8/27/2020
 GREENMAN-PEDERSEN, INC.

SEE SHEET NO. 3 OF 5
 MATCH LINE C



LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	<u>79</u>
INJURIES	<u>15</u>
FATALITIES*	<u>0</u>
TOTAL NO. OF CRASHES	<u>94</u>

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	ANIMAL
	NON-FIXED OBJECT
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	2016 CRASHES
	2017 CRASHES
	2018 CRASHES

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13)
 RED BANK BOROUGH, MONMOUTH COUNTY

2016 - 2018 COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management

NOT TO SCALE

COLLISION DIAGRAM DATA

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
6	09:02	MON	01-25-16	0	WET	CLEAR	DAY
9	11:00	SAT	02-06-16	0	DRY	CLEAR	DAY
10	19:21	TUE	02-09-16	0	DRY	SNOW	DARK
13	21:55	MON	02-22-16	0	DRY	CLEAR	DARK
16	13:45	MON	03-14-16	0	WET	RAIN	DAY
17	11:23	SAT	03-19-16	0	DRY	CLEAR	DAY
18	16:56	WED	04-06-16	0	DRY	CLEAR	DAY
19	20:13	SUN	04-17-16	0	DRY	CLEAR	DARK
20	10:45	SAT	04-23-16	0	DRY	CLEAR	DAY
21	10:59	THU	04-28-16	1	DRY	CLEAR	DAY
23	21:13	TUE	05-10-16	0	DRY	CLEAR	DARK
24	17:20	FRI	05-13-16	0	WET	RAIN	DAY
28	08:33	MON	06-13-16	0	DRY	CLEAR	DAY
32	15:44	SUN	06-19-16	0	DRY	CLEAR	DAY
34	09:05	WED	06-29-16	0	DRY	CLEAR	DAY
35	15:41	WED	07-06-16	0	DRY	CLEAR	DAY
37	09:47	TUE	07-12-16	0	DRY	CLEAR	DAY
38	09:18	THU	07-14-16	0	DRY	CLEAR	DAY
39	16:55	TUE	07-26-16	0	DRY	CLEAR	DAY
40	18:13	FRI	07-29-16	1	DRY	CLEAR	DAY
41	14:19	SUN	08-07-16	0	DRY	CLEAR	DAY
43	15:57	FRI	08-12-16	0	DRY	CLEAR	DAY
45	17:30	MON	08-22-16	1	DRY	CLEAR	DAY
49	17:38	TUE	09-13-16	1	DRY	CLEAR	DAY
50	15:42	THU	09-15-16	0	DRY	CLEAR	DAY
52	14:46	SAT	09-17-16	0	DRY	CLEAR	DAY
53	13:43	SUN	09-25-16	0	DRY	CLEAR	DAY
56	06:23	MON	10-24-16	0	DRY	CLEAR	DAWN
58	10:48	WED	10-26-16	0	DRY	CLEAR	DAY
62	13:23	THU	11-10-16	1	DRY	CLEAR	DAY
72	14:49	TUE	02-07-17	1	WET	CLEAR	DAY
76	07:53	THU	03-09-17	0	DRY	CLEAR	DAY
77	15:42	MON	03-13-17	0	DRY	CLEAR	DAY
80	09:23	FRI	04-21-17	1	WET	RAIN	DAY
81	15:18	THU	05-04-17	0	DRY	CLEAR	DAY
82	10:38	SUN	05-07-17	0	DRY	CLEAR	DAY
84	10:38	SAT	05-13-17	0	WET	RAIN	DAY
87	17:22	THU	05-18-17	0	DRY	CLEAR	DAY
89	20:26	WED	05-31-17	0	DRY	CLEAR	DAY
90	17:21	WED	05-31-17	0	DRY	CLEAR	DAY
91	16:04	THU	06-01-17	0	DRY	CLEAR	DAY
93	16:42	SAT	06-03-17	2	DRY	CLEAR	DAY
94	15:10	TUE	06-06-17	0	DRY	OVERCAST	DAY
96	10:26	SAT	06-10-17	0	DRY	CLEAR	DAY
99	18:29	FRI	06-23-17	1	DRY	CLEAR	DAY
100	13:56	FRI	07-07-17	2	WET	OVERCAST	DAY
104	11:06	WED	08-09-17	0	DRY	CLEAR	DAY

COLLISION DIAGRAM DATA (cont.)

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
105	07:53	THU	08-10-17	0	DRY	CLEAR	DAY
107	18:20	THU	08-17-17	0	DRY	CLEAR	DAY
108	15:02	FRI	08-18-17	1	DRY	CLEAR	DAY
111	14:05	MON	08-28-17	2	DRY	CLEAR	DAY
113	14:29	WED	08-30-17	0	DRY	CLEAR	DAY
119	18:24	THU	09-28-17	1	DRY	CLEAR	DUSK
124	14:29	MON	10-23-17	0	DRY	CLEAR	DAY
131	21:08	TUE	12-05-17	2	WET	RAIN	DARK
133	17:59	MON	12-11-17	0	DRY	CLEAR	DARK
134	15:57	WED	12-13-17	0	DRY	CLEAR	DAY
135	17:45	THU	12-14-17	0	DRY	CLEAR	DARK
136	08:05	MON	12-18-17	0	DRY	CLEAR	DAY
137	09:49	THU	12-21-17	0	DRY	CLEAR	DARK
139	08:28	THU	12-28-17	0	DRY	CLEAR	DAY
142	17:11	FRI	01-05-18	0	SLUSH	CLEAR	DARK
144	14:57	MON	01-08-18	0	DRY	CLEAR	DAY
148	09:16	WED	01-24-18	0	DRY	OVERCAST	DAY
150	06:56	FRI	02-09-18	0	DRY	CLEAR	DAY
151	18:32	THU	03-08-18	0	DRY	CLEAR	DARK
152	11:09	FRI	03-09-18	0	DRY	CLEAR	DAY
153	11:10	SUN	03-11-18	0	DRY	CLEAR	DAY
156	09:01	MON	04-02-18	0	WET	SNOW	DAY
159	10:16	FRI	05-04-18	0	DRY	CLEAR	DAY
160	23:45	THU	05-10-18	0	DRY	CLEAR	DARK
161	15:47	THU	05-10-18	0	DRY	CLEAR	DAY
164	19:01	MON	05-14-18	0	DRY	CLEAR	DAY
165	09:12	TUE	05-22-18	0	DRY	CLEAR	DAY
166	15:34	THU	05-31-18	0	DRY	CLEAR	DAY
167	10:53	WED	06-06-18	0	DRY	CLEAR	DAY
168	11:29	MON	06-18-18	0	DRY	CLEAR	DAY
169	14:43	MON	07-02-18	0	DRY	CLEAR	DAY
177	15:45	TUE	08-07-18	0	DRY	CLEAR	DAY
182	07:54	TUE	09-04-18	0	DRY	CLEAR	DAY
185	09:51	WED	09-12-18	0	DRY	CLEAR	DAY
187	17:33	THU	09-13-18	0	DRY	CLEAR	DAY
188	16:27	FRI	09-14-18	1	DRY	CLEAR	DAY
189	16:11	FRI	09-21-18	0	DRY	CLEAR	DAY
190	16:16	THU	09-27-18	0	DRY	CLEAR	DAY
192	14:51	WED	10-17-18	0	DRY	CLEAR	DAY
195	10:42	FRI	11-02-18	0	DRY	OVERCAST	DAY
197	16:56	THU	11-08-18	0	DRY	CLEAR	DAY
198	11:56	TUE	11-13-18	0	WET	OVERCAST	DAY
200	18:40	WED	11-21-18	0	DRY	CLEAR	DARK
202	19:01	SAT	12-15-18	0	DRY	CLEAR	DARK
203	09:04	MON	12-17-18	0	DRY	CLEAR	DAY
205	13:02	SAT	12-22-18	0	DRY	CLEAR	DAY
206	16:07	TUE	05-10-16	0	DRY	CLEAR	DAY
207	15:42	SAT	11-12-16	0	DRY	CLEAR	DAY

LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	<u>79</u>
INJURIES	<u>15</u>
FATALITIES*	<u>0</u>
TOTAL NO. OF CRASHES	<u>94</u>

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	ANIMAL
	NON-FIXED OBJECT
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	2016 CRASHES
	2017 CRASHES
	2018 CRASHES

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13) RED BANK BOROUGH, MONMOUTH COUNTY

2016 - 2018 COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management

NOT TO SCALE

FILE: L:\2017659_HSP_Program_and_Project_Development_Support\NJDOT_HSP_Year_2_Catchway06_Monmouth_Collision_Diagram_Sheets\veh_Sheet_05.dgn
DATE: 8/27/2020
TIME: 10:28:06 AM
GREENMAN-PEDERSEN, INC.

APPENDIX E

PEDESTRIAN CRASH DIAGRAMS



COLLISION DIAGRAM DATA

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
4	11:41	MON	08-15-16	0	DRY	CLEAR	DAY

LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	1
INJURIES	0
FATALITIES	0
TOTAL NO. OF CRASHES	1

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	ANIMAL
	NON-FIXED OBJECT
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	PEDESTRIAN CRASH

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13) RED BANK BOROUGH, MONMOUTH COUNTY

2014-2018 PEDESTRIAN COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management

NOT TO SCALE

MATCH LINE A
SEE SHEET NO. 2 OF 4

COLLISION DIAGRAM DATA

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
2	13:40	FRI	11-20-15	1	DRY	CLEAR	DAY



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 TIME: 10:54:19 AM
 DATE: 8/26/2020
 GREENMAN-PEDERSEN, INC.

SEE SHEET NO. 1 OF 4
MATCH LINE A

MATCH LINE B
SEE SHEET NO. 3 OF 4

LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	<u>0</u>
INJURIES	<u>1</u>
FATALITIES	<u>0</u>
TOTAL NO. OF CRASHES	<u>1</u>

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	ANIMAL
	NON-FIXED OBJECT
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	PEDESTRIAN CRASH

2 / 4

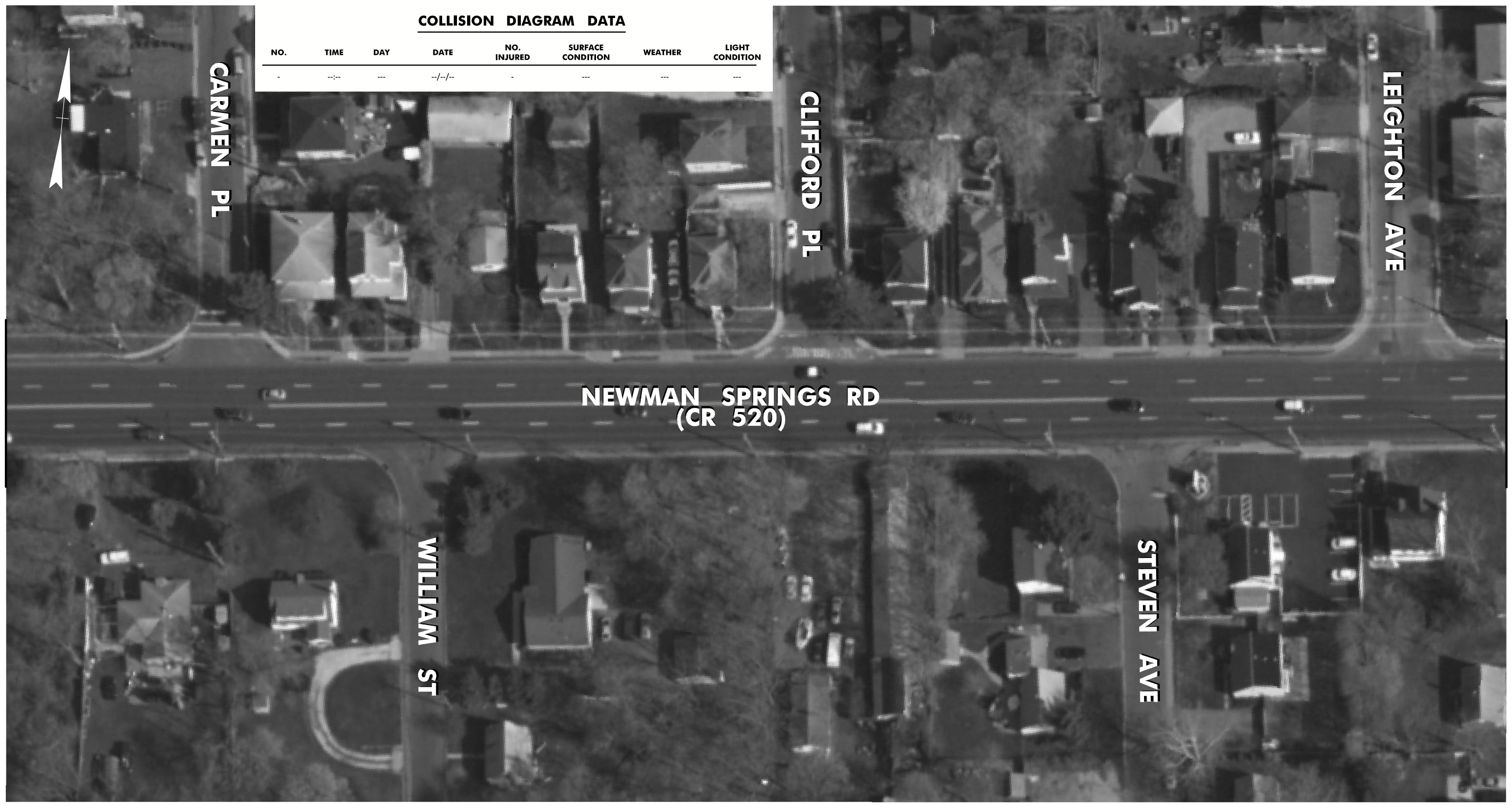
NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13)
RED BANK BOROUGH, MONMOUTH COUNTY

2014-2018 PEDESTRIAN COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management	NOT TO SCALE
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DATE: 8/26/2020 TIME: 10:56:52 AM FILE: L:\2017659_HSP_Program_and_Project_Development\Support\NDDOT_HSP_Year2_Catchway06_Monmouth\Collision_Diagram_Sheets\Ped_Sheet_03 - PED.dgn



COLLISION DIAGRAM DATA							
NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
-	---	---	--/--	-	---	---	---

SEE SHEET NO. 2 OF 4
MATCH LINE B

MATCH LINE C
SEE SHEET NO. 4 OF 4

LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	<u>0</u>
INJURIES	<u>0</u>
FATALITIES	<u>0</u>
TOTAL NO. OF CRASHES	<u>0</u>

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	ANIMAL
	NON-FIXED OBJECT
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	PEDESTRIAN CRASH

3/4

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13)
RED BANK BOROUGH, MONMOUTH COUNTY

2014-2018 PEDESTRIAN COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management	NOT TO SCALE
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 DATE: 8/26/2020
 GREENMAN-PEDERSEN, INC.

SEE SHEET NO. 3 OF 4
 MATCH LINE C



COLLISION DIAGRAM DATA

NO.	TIME	DAY	DATE	NO. INJURED	SURFACE CONDITION	WEATHER	LIGHT CONDITION
1	19:56	THU	09-11-14	1	DRY	CLEAR	DAY
3	19:13	TUE	02-16-16	1	DRY	CLEAR	DUSK

**NEWMAN SPRINGS RD
(CR 520)**

HOWARD AVE

CLINTON PL

**SHREWSBURY AVE
(CR 13)**

LEGEND

NUMBER OF CRASHES WITH	
PROPERTY DAMAGE ONLY	0
INJURIES	2
FATALITIES	0
TOTAL NO. OF CRASHES	2

SYMBOLS	
	MOVING VEHICLE
	BACKING VEHICLE
	NON-INVOLVED VEHICLE
	PEDESTRIAN
	BICYCLIST
	PROPERTY DAMAGE ONLY CRASH
	INJURY IN CRASH
	FATAL CRASH
	FIXED OBJECT
	ANIMAL
	NON-FIXED OBJECT
	POTHOLE

TYPES OF CRASHES	
	REAR END
	HEAD ON
	SIDE SWIPE
	OUT OF CONTROL
	OVERTURNED
	LEFT TURN
	RIGHT ANGLE
	STRUCK PARKED VEHICLE

COLORS	
	PEDESTRIAN CRASH

NEW JERSEY DEPARTMENT OF TRANSPORTATION

NEWMAN SPRINGS ROAD (CR 520) FROM SWIMMING RIVER TO SHREWSBURY AVENUE (CR 13)
RED BANK BOROUGH, MONMOUTH COUNTY

2014-2018 PEDESTRIAN COLLISION DIAGRAMS

GPI Engineering Design Planning Construction Management	NOT TO SCALE
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APPENDIX F

SITE PHOTOGRAPHS

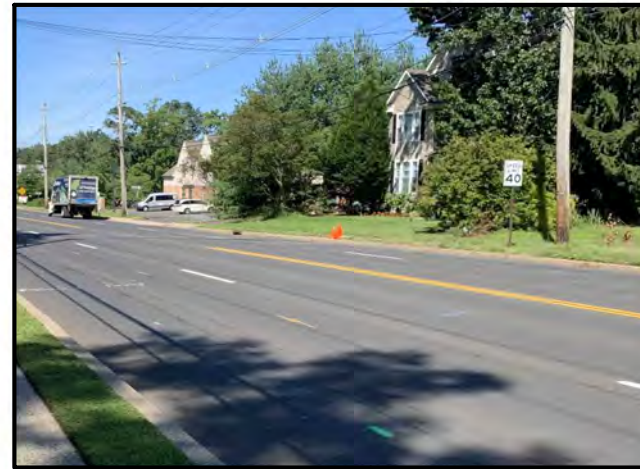
Sidewalk does not continue west of Munson Pl



Unclear use as driveway or sidewalk
Not ADA compliant



Turning vehicles must cross 2 lanes to enter or leave roadway; results in shadow crashes



Vegetation overgrowth limits sidewalk
No shoulders along corridor



Channelized right turn lacks place for pedestrians to cross





Sidewalk covered in debris with insufficient passing space



Curb ramps not ADA compliant

LEGEND

-  SIGNALIZED INTERSECTION
-  PROJECT CORRIDOR

1
2

**NJDOT HSIP – ROAD SAFETY AUDIT
CR 520 (NEWMAN SPRINGS ROAD)**

RED BANK BOROUGH
MONMOUTH COUNTY

SITE PHOTOGRAPHS



N.T.S.

Various crosswalk styles across unsignalized side streets



Various sidewalk widths and conditions



Bushes may block sight distance for side street turning vehicles



Multiple signs in succession may not be interpreted by drivers in time to make decisions





Sidewalk in poor condition and passing space restricted by utility pole and vegetation



Curb ramps not ADA compliant



Passing space between pole and curbline may be insufficient

- LEGEND**
-  SIGNALIZED INTERSECTION
 -  PROJECT CORRIDOR

2 / 2

**NJDOT HSIP - ROAD SAFETY AUDIT
CR 520 (NEWMAN SPRINGS ROAD)**

RED BANK BOROUGH
MONMOUTH COUNTY

SITE PHOTOGRAPHS



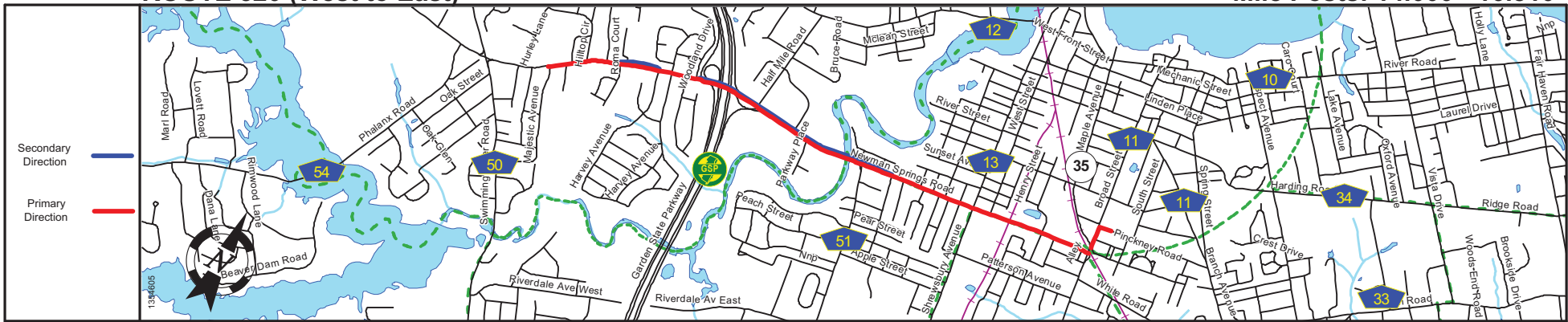
N.T.S.

APPENDIX G

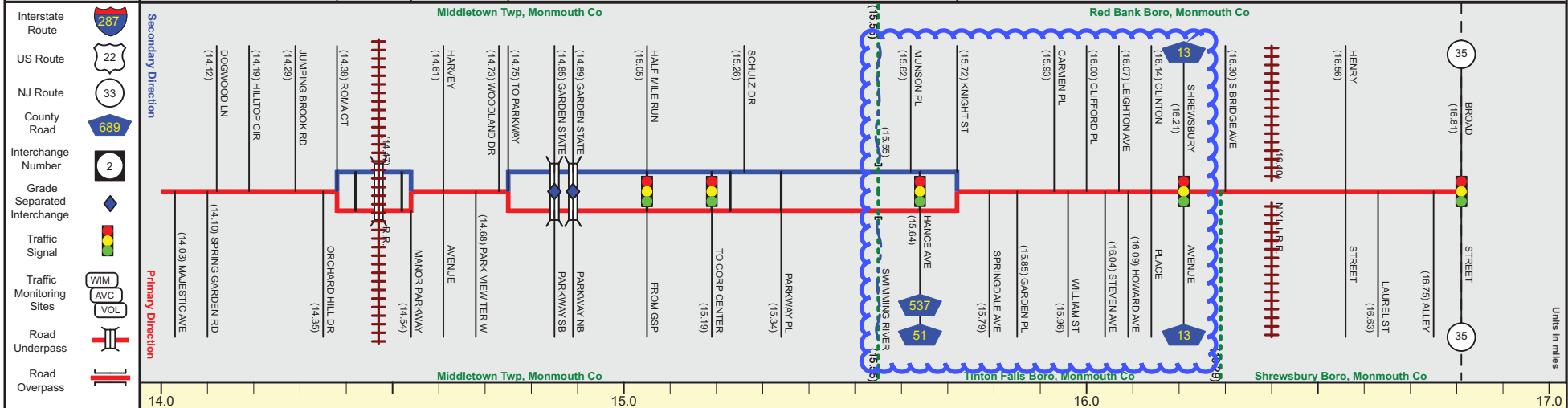
STRAIGHT LINE DIAGRAMS

ROUTE 520 (West to East)

Mile Posts: 14.000 - 16.810



Pavement	24	36	24
Shoulder	0	0	
Number of Lanes	2	2	
Speed Limit	40	40	45
Street Name	Newman Springs Road	Newman Springs Road	



Street Name	Newman Springs Road			
Jurisdiction	County			
Functional Class	Urban Minor Arterial		Urban Principal Arterial	
Federal Aid - NHS Sy	STP		IM - Transit Term.	
Control Section	35	40	45	35
Speed Limit	40	40	45	35
Number of Lanes	4	2	2	2
Med. Type	None	Curbed	Positive	None
Med. Width	0	VAR	4	0
Pavement	48	24	24	40
Shoulder			0	
Traffic Volume			32,623 (2018)	10,594 (2017)
Traffic Sta. ID			p18628	6n5b706
Structure No.	361101E 361101U	361101O 361101I	1300S16	
Enlarged Views				See Enlarged View #21

SRI = 0000520__

Date last inventoried: November 2012

MP 16.81 = Begin Cdinc. With NJ 35 MP 32.86
MP 16.81 - 16.84 Sep NJ 35 MP 32.86-32.89

APPENDIX H

PRE-AUDIT PRESENTATION



ONLINE ROAD SAFETY AUDIT

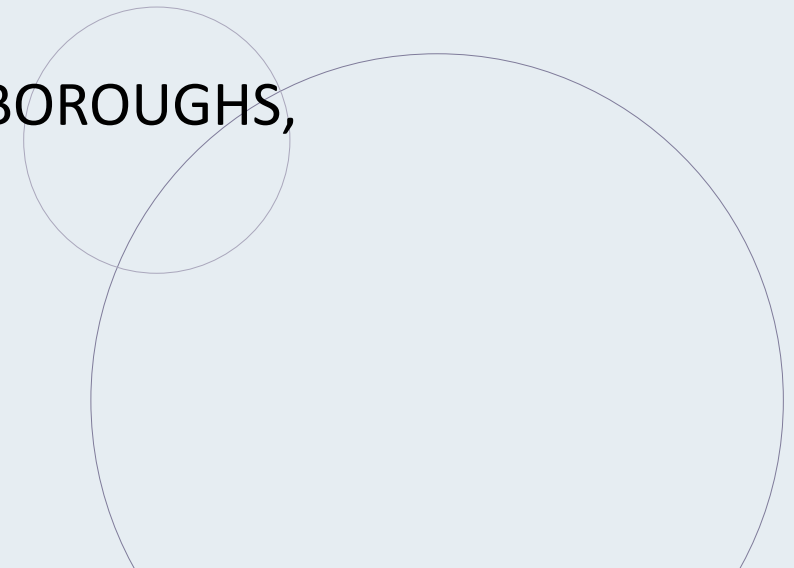
NEWMAN SPRINGS ROAD (CR 520)

SWIMMING RIVER TO SHREWSBURY AVENUE



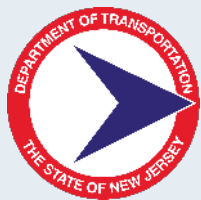
RED BANK & TINTON FALLS BOROUGHES,
MONMOUTH COUNTY

OCTOBER 9, 2020





AUDIT TEAM



NJDOT



NJTPA



Red Bank Borough



Tinton Falls Borough



Monmouth County



Today's Schedule

1

- Welcome and Introductions
- Safety Program Overview and RSA Process

2

- FHWA Proven Safety Countermeasures
- Project Overview and Crash Data

3

- Online Field Visit and Observations

4

- Make Recommendations
- Next Steps

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP)

- 7 Emphasis Areas (NJ 2020 Strategic Highway Safety Plan)
- Pedestrian Safety and Intersection Focus State
- 7 sub-programs including Local Safety Program
- Core Federal Aid Program, NJ receives about \$57M



**Lane
Departure**



Intersections



**Driver
Behavior**



**Pedestrians
and Bicyclists**



**Other
Vulnerable
Road Users**



Data

Driver Behavior: Drowsy and Distracted Driving, Aggressive Driving, Impaired Driving, Unlicensed Driving, and Unbelted Drivers and Occupants
Other Vulnerable Road Users: Mature Drivers, Younger Drivers, Motorcyclists, Work Zone Workers and Other Road Workers.



HSIP/LOCAL SAFETY PROGRAM

MAIN GOAL: Reduce serious injury and fatality (K+A) crashes on all of NJ's public roads



Program Goals

- Toward zero deaths on all public roads
- Performance-based goals consistent with SHSP
- Data-driven, strategic approach to improving highway safety



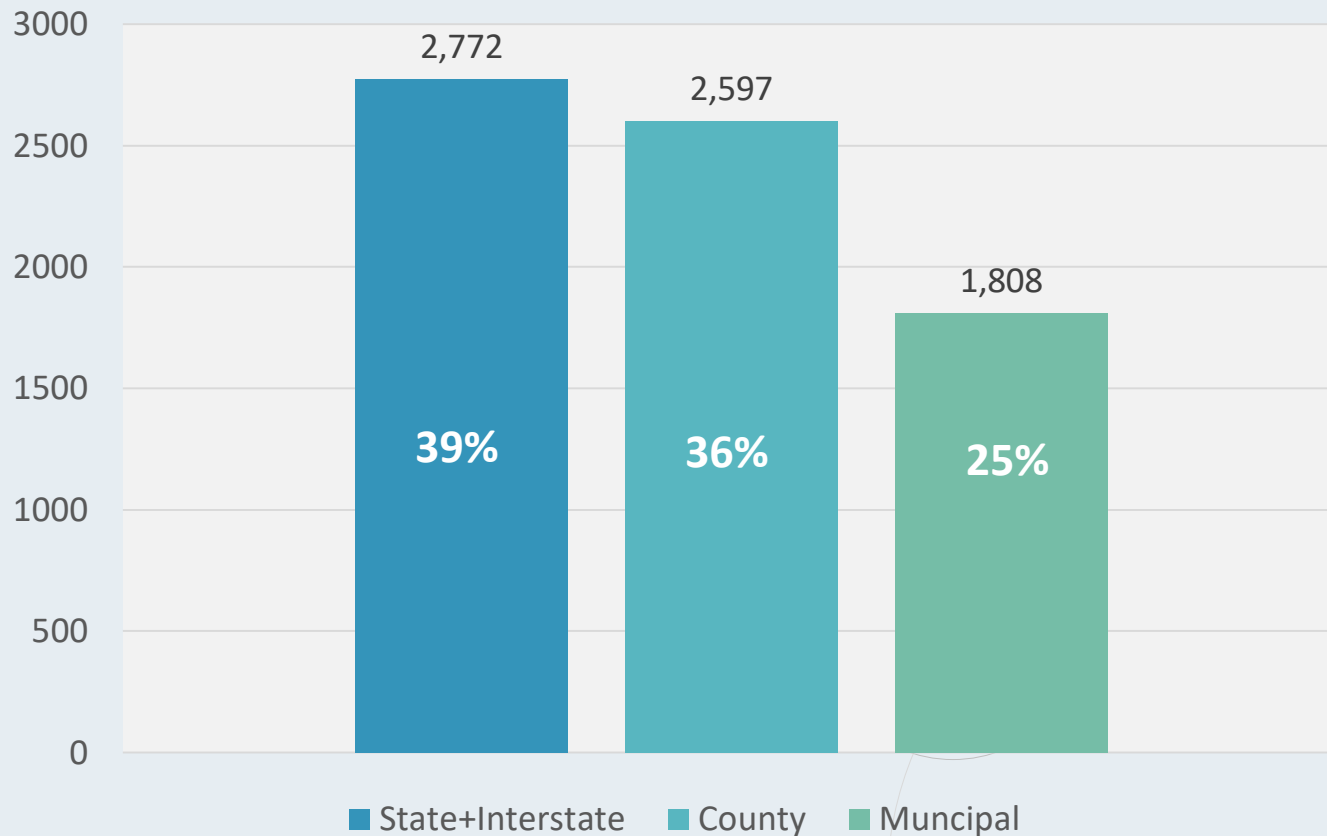
Local Safety Program (LSP)

- NJDOT support
 - Dedication of HSIP funds
 - Technical assistance
 - Screening lists for MPOs
 - **Road Safety Audits**
- MPOs support
 - Local Road Safety
 - High Risk Rural Roads
 - CD/PE/FD Assistance Program

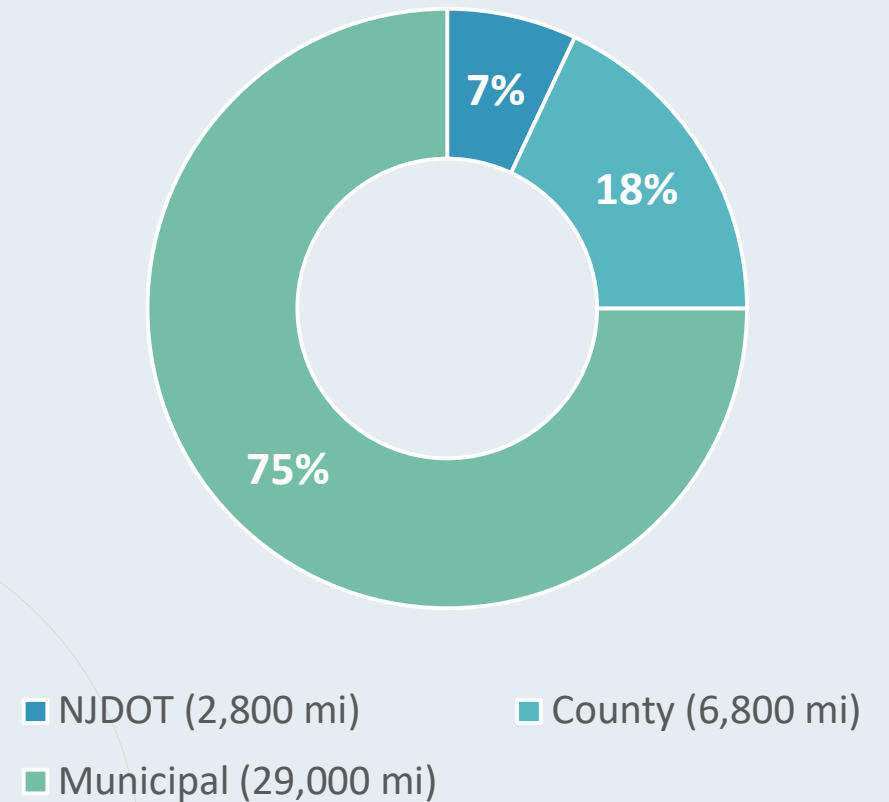


FATAL & SERIOUS INJURIES BY ROADWAY SYSTEM (2014-2018)

FSI Crashes by Road System



Roadway Jurisdiction



Local Safety Program & High Risk Rural Roads FY 2005–2018

Total Projects: 131

Total Local Safety Program
Funding: \$144.6 million

Total High Risk Rural
Roads Program Funding:
\$19.6 million

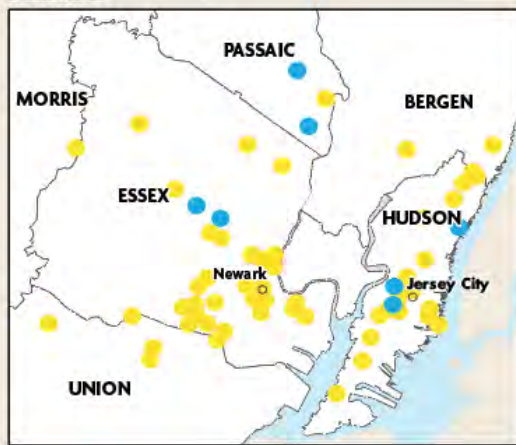
FY 2017-2018 Projects

- Local Safety Projects
- High Risk Rural Road Projects

Past Projects

- Local Safety Projects
- High Risk Rural Road Projects

Detail Area



FEDERAL TRANSPORTATION FUNDING

- Local Safety and High Risk Rural Roads Programs
 - \$145+ million in funding 2005-18 on County / Local Roadways
 - Relatively quick-fix safety improvements
- HSIP funds – emphasizes data-driven, strategic approach to improving highway safety
- Network Screening – identifies locations experiencing:
 - High crash frequencies
 - Severe crash injuries
 - Specific crash types such as right-angle or roadway departures
- Community Outreach – provides the public, local officials and stakeholders with opportunities to comment and ask questions



RSA PURPOSE

Formal safety performance examination by an independent, multidisciplinary audit team that identifies safety improvement opportunities for all road users.



Benefits

- Pro-actively address safety; reduce crashes
- Identify low-cost/high-value improvements
- Promote “safety culture”
- Provide continuous advancement of safety skills and knowledge
- Contribute feedback on safety issues for future projects
- Support optimized savings of lives, money and time



Not meant to replace

- Design quality control
- Standard compliance
- Traffic or safety impact studies
- Safety conscious planning
- Road safety inventory programs
- Traffic safety modeling efforts



RSA PROCESS



Responsibilities:

Steps 1-2 & 7-8: Design Team/Road Owner

Steps 3-6: RSA Team

FHWA PROVEN SAFETY COUNTERMEASURES

20 countermeasures

Descriptions provided in handouts



Roadside Design Improvement at Curves



Reduced Left-Turn Conflict Intersections



Systemic Application of Multiple Low Cost Countermeasures at Stop-Controlled Intersections



Leading Pedestrian Interval



Local Road Safety Plan



USLIMITS2



Enhanced Delineation and Friction for Horizontal Curves



Longitudinal Rumble Strips and Stripes on Two-Lane Roads



Median Barrier



Safety EdgesSM



Backplates with Retroreflective Borders



Corridor Access Management



Dedicated Left- and Right-Turn Lanes at Intersections



Roundabouts



Yellow Change Intervals



Medians and Pedestrian Crossing Islands in Urban and Suburban Areas



Pedestrian Hybrid Beacon



Road Diet



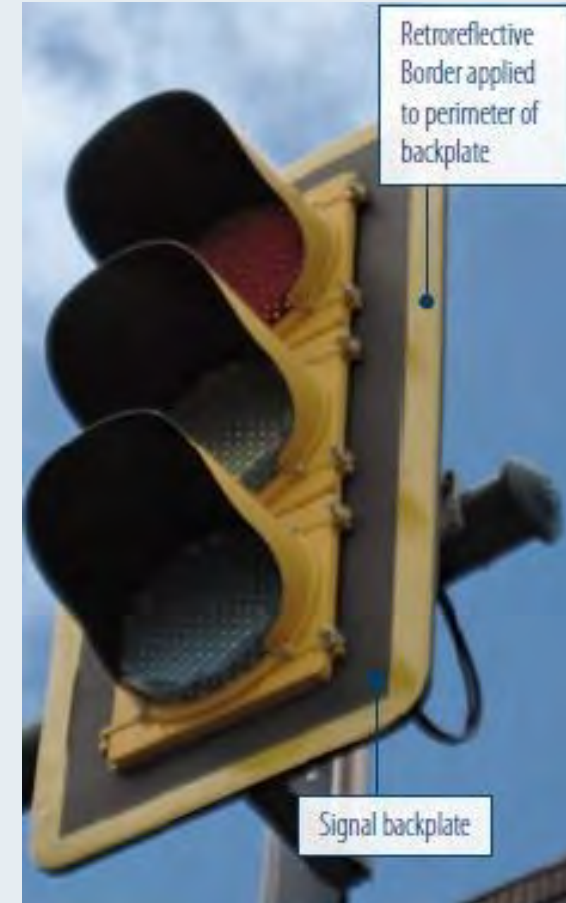
Walkways



Road Safety Audit

FHWA PROVEN SAFETY COUNTERMEASURES

- Clockwise from top:
 - Roundabout, Chesterfield Township, Burlington County
 - Backplates with Retroreflective Borders, Statewide
 - Road diet, Maplewood Township, Essex County
 - Pedestrian Hybrid Beacon (HAWK), Ocean City, Cape May County





ADDITIONAL CONSIDERATIONS

Curb Extensions

Hoboken City, Hudson County



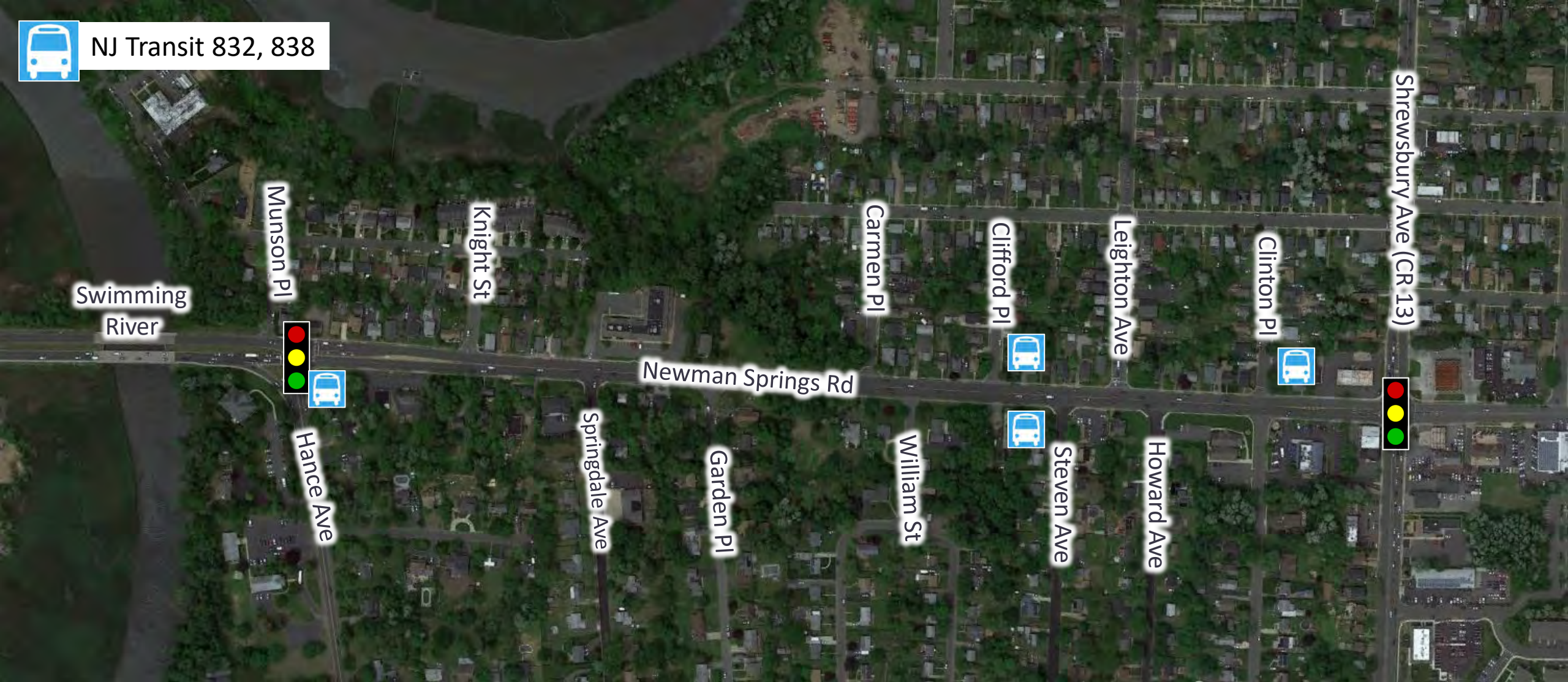
Enhanced signing / pedestrian crossings

Bellevue City, WA





NJ Transit 832, 838



- Urban Principal Arterial
- Undivided, 4-lanes

- Sidewalk both sides
- Various crosswalk styles



PROJECT AREA





NETWORK SCREENING

NJTPA County Ranking – 2012-2016 Data



Top 100 Corridors

Route	Regional	Pedestrian
Clinton Ave	#8: MP 15.24-16.24*	#8: MP 15.24-16.24



Top 100 Intersections

Location	All Crashes	Pedestrian
Leighton Ave (MP 16.07)	#88	-
Shrewsbury Ave (MP 16.21)	#92	#66**
Knights St (MP 15.72)	#114	-
Springdale Ave (MP 15.79)	-	#28

* Based on 2016-2018 data, this segment now ranks #1 in the County

** Pedestrian fatality on March 6, 2019 would elevate this score



CRASH DATA

2014-2018 Pedestrian/Bicyclist

- 4 crashes (2 Ped/2 Bike)
- Minor Injuries

2016-2018 Vehicular

- 203 crashes
- Primarily property damage only

Overrepresentations

Vehicular

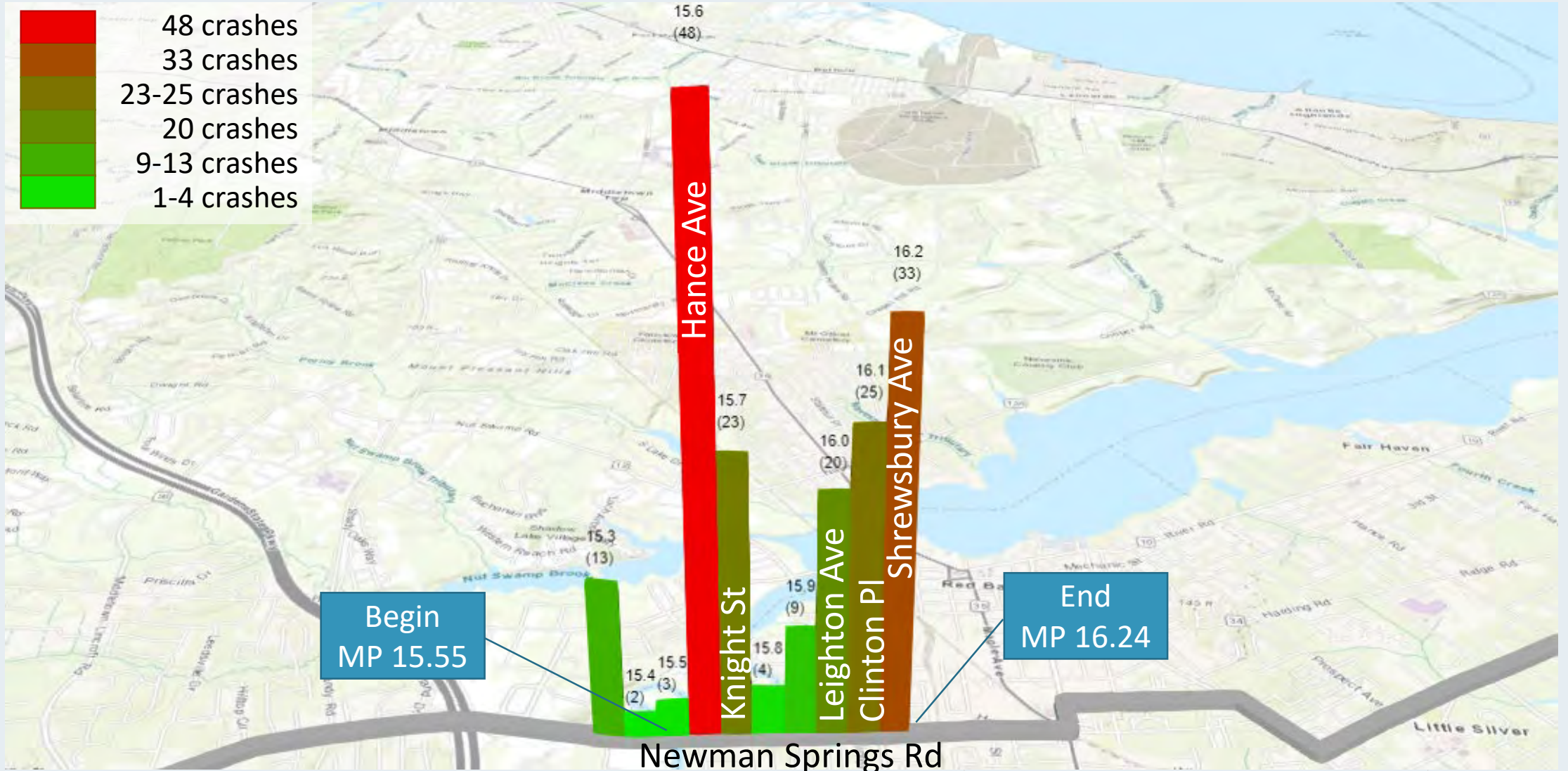
- Rear End
- Right Angle
- Backing
- At Signalized Intersections
- Dry Surface
- Day

Ped/Bike

- Injury
- Between Intersection
- Dry Surface
- Day

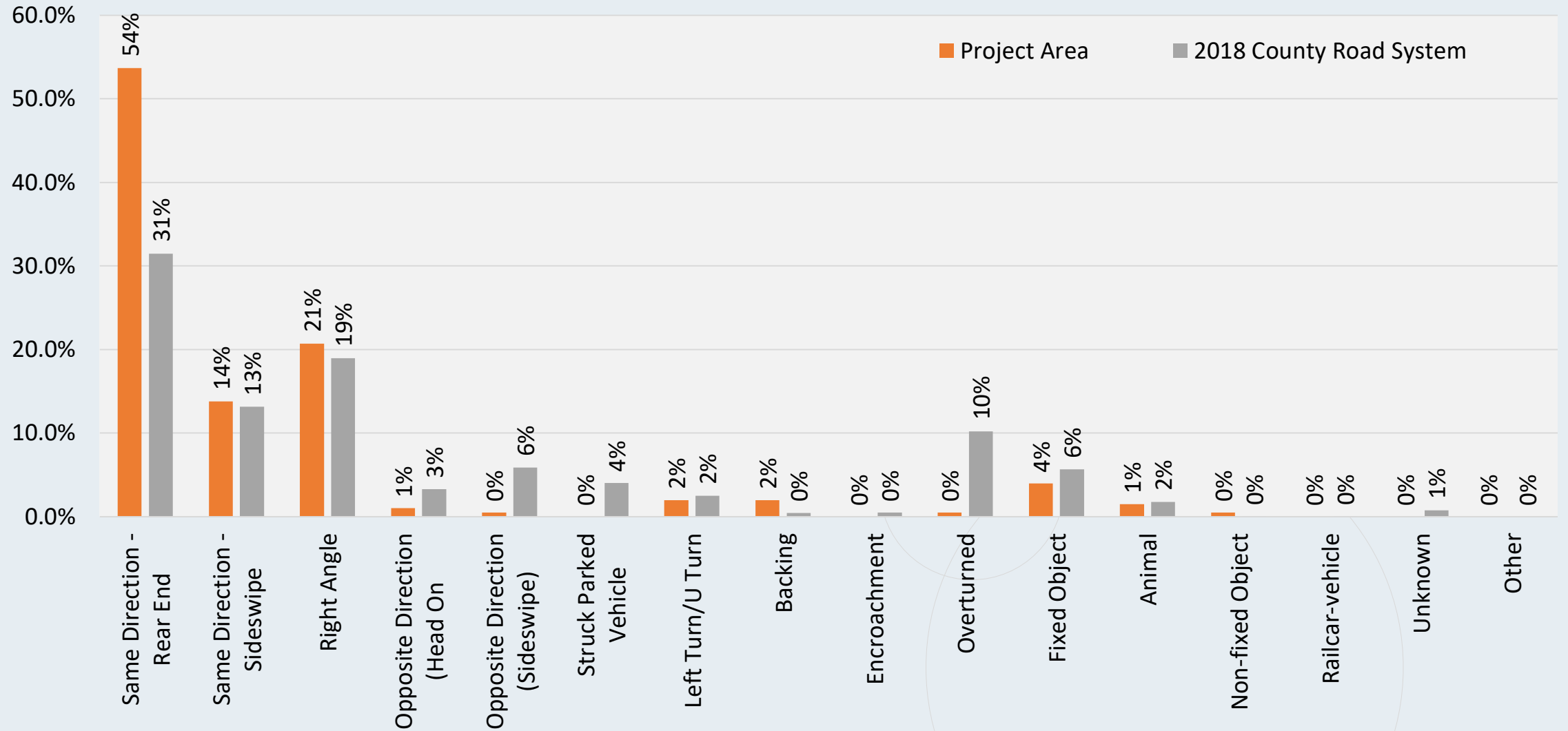
CRASHES: LOCATION IN RSA

Histogram View by 0.1 Mile
Geocoded Crashes Only (2016-2018)

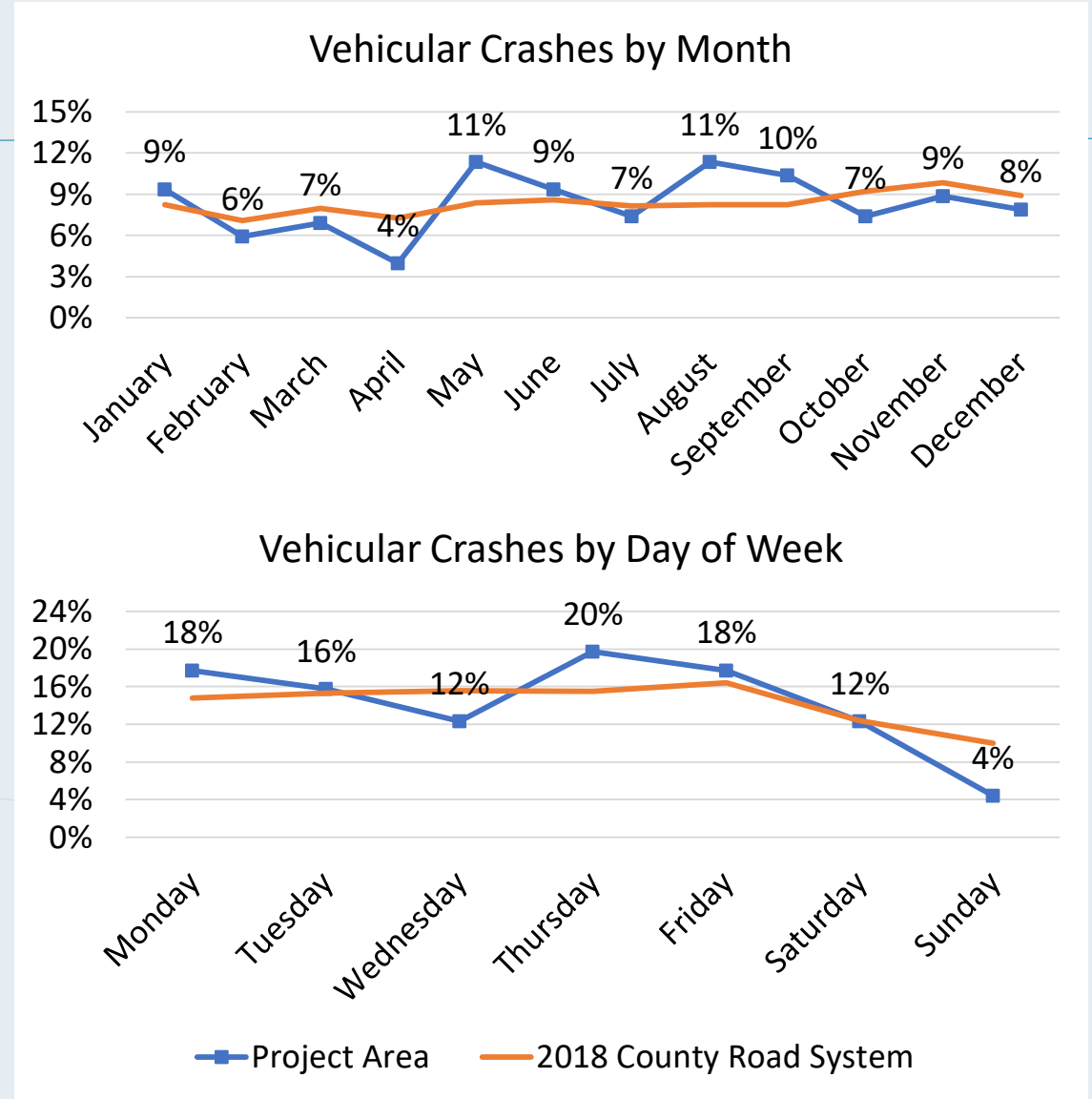
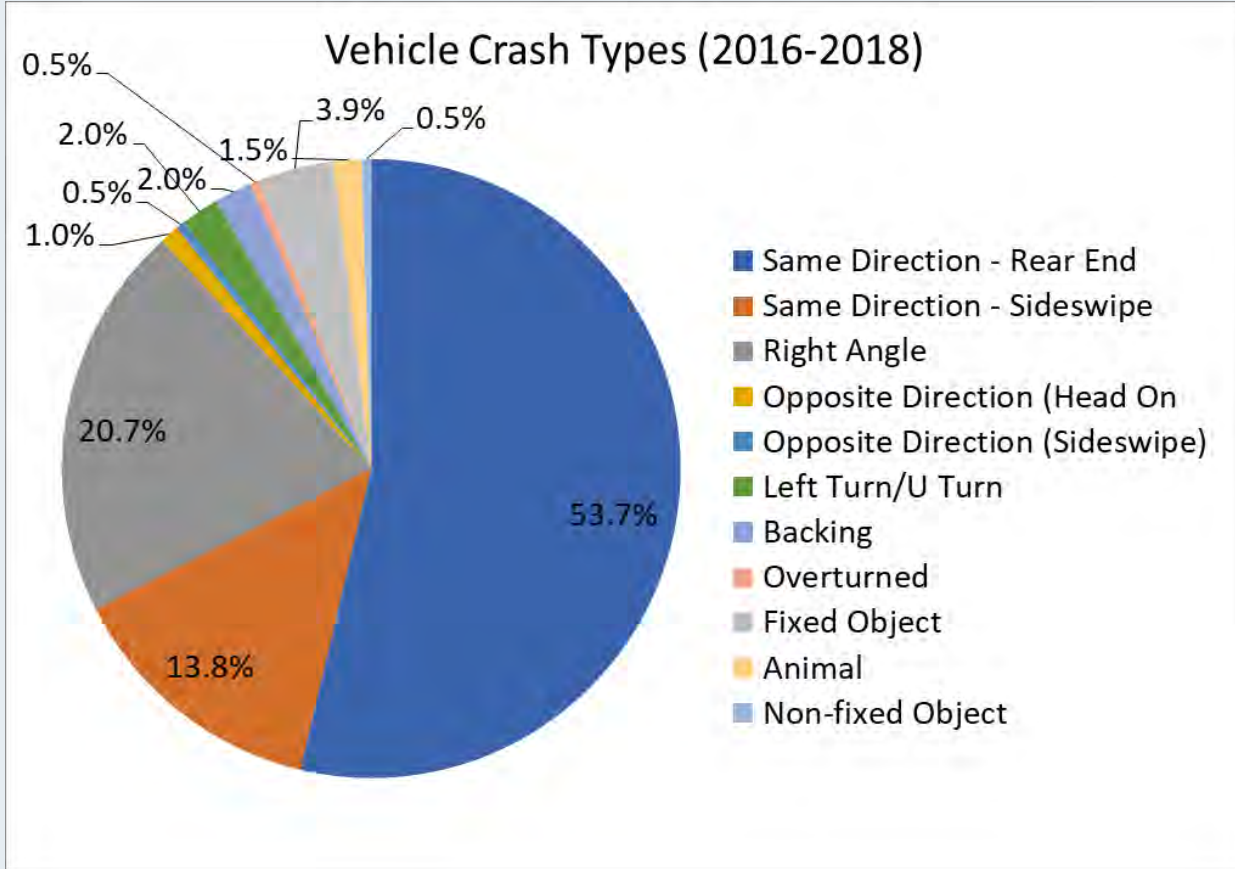




CRASHES: RSA AREA v. COUNTY ROAD SYSTEM



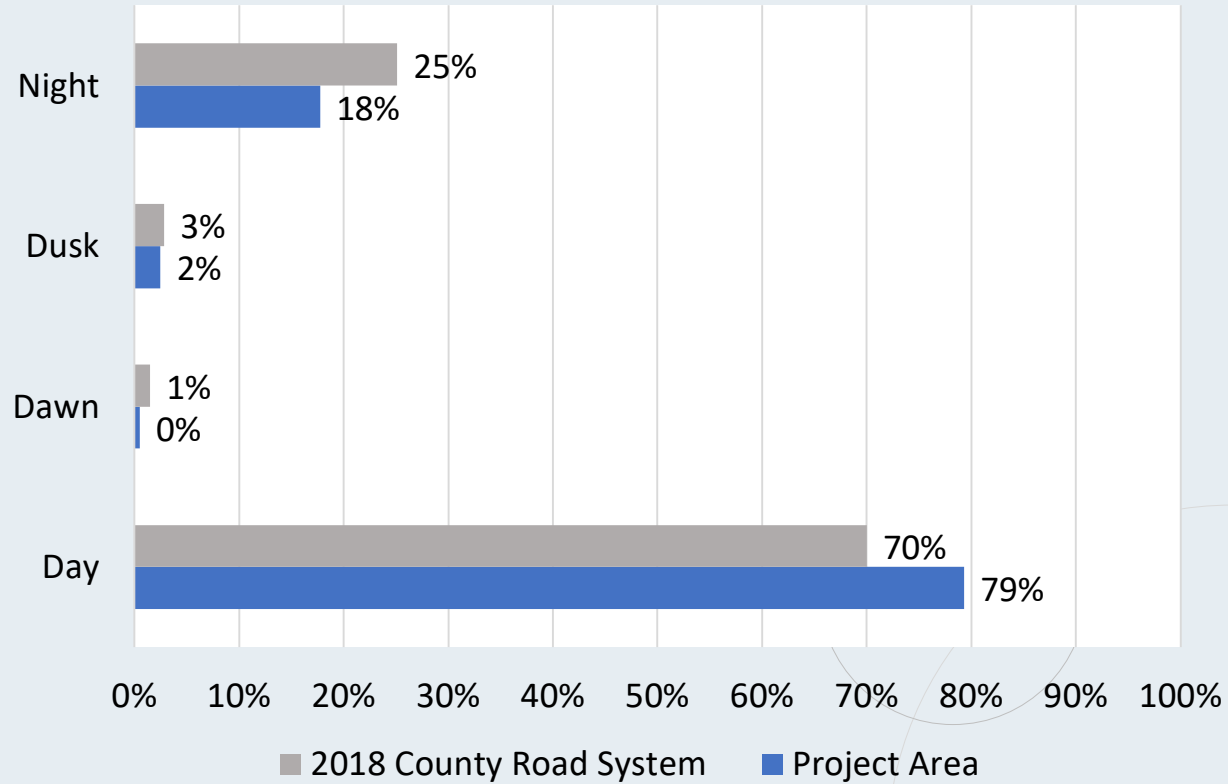
CRASHES: TYPE & TIMES



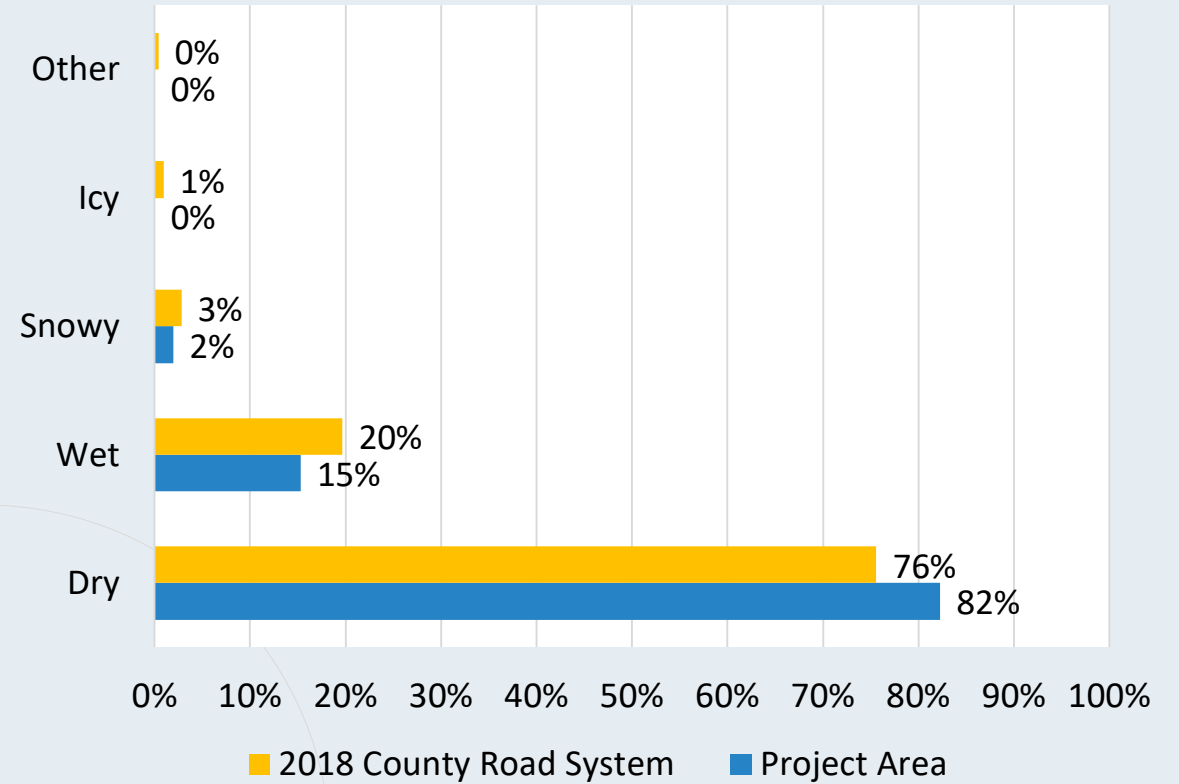


CRASHES: LIGHT & SURFACE CONDITIONS

Light Conditions



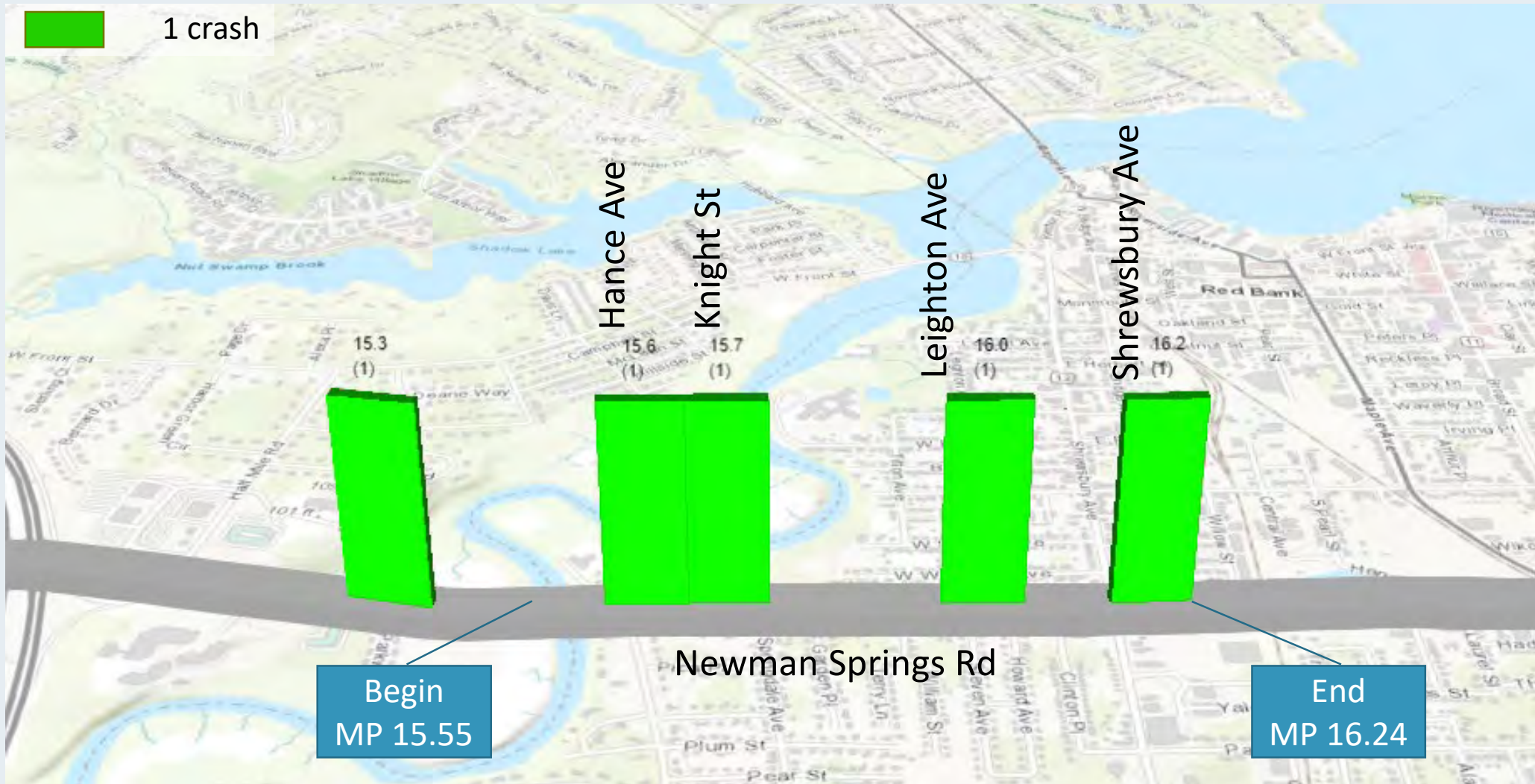
Surface Conditions





PED/BIKE CRASHES: LOCATION IN RSA

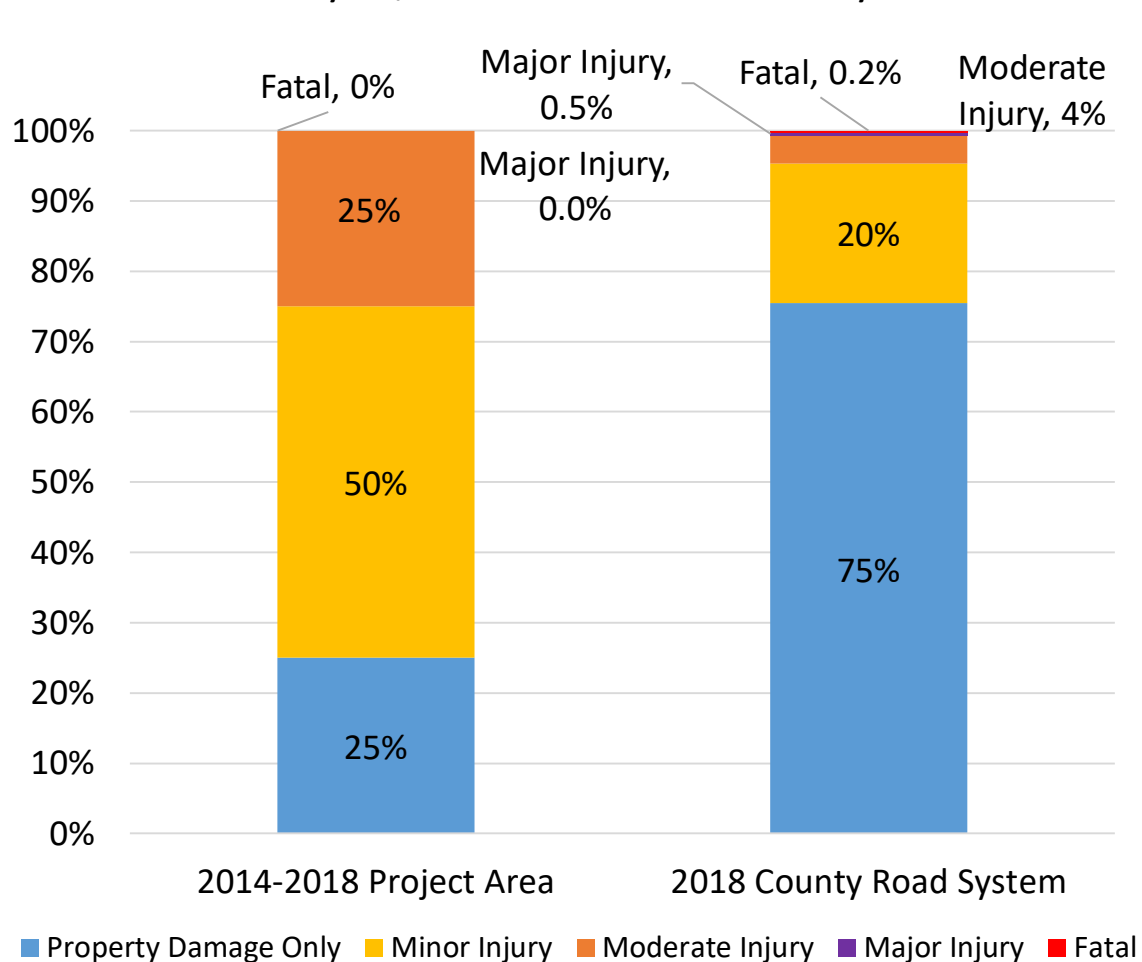
Histogram View by 0.1 Mile
Geocoded Crashes Only (2014-2018)



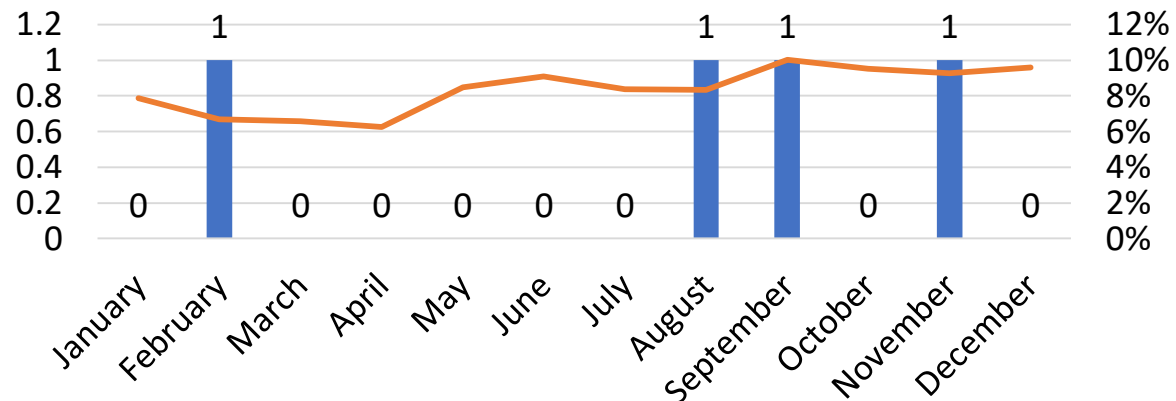


PED/BIKE CRASHES: SEVERITY & TIMES

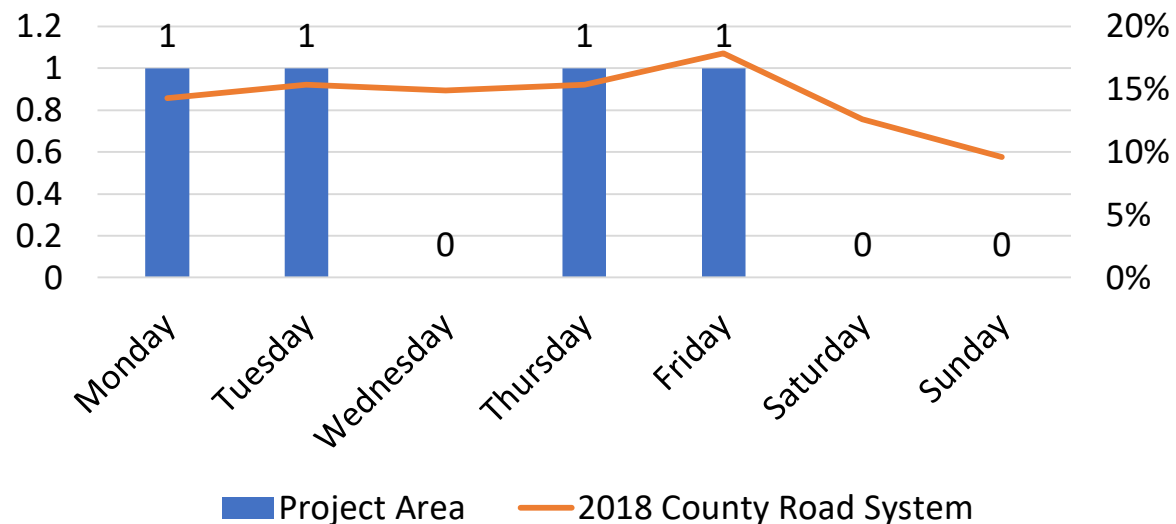
Bicycle/Pedestrian Crash Severity



Crashes by Month



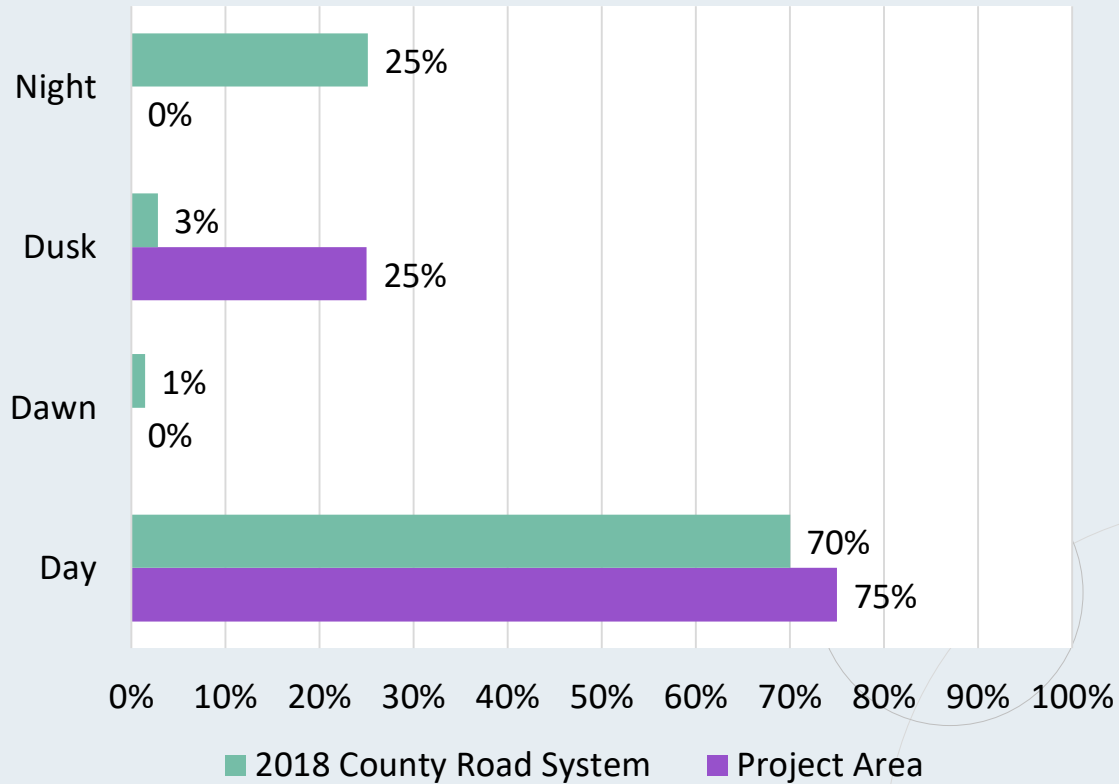
Crashes by Day of Week



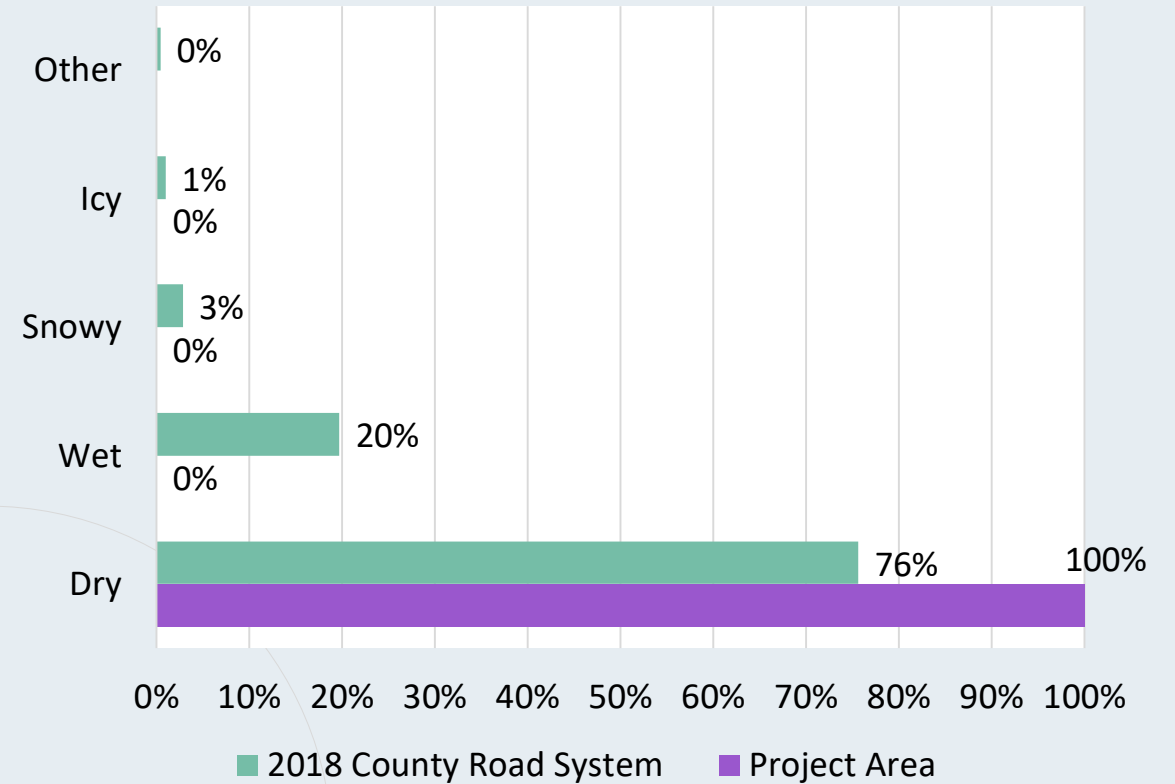


PED/BIKE CRASHES: LIGHT & SURFACE CONDITIONS

Light Conditions



Surface Conditions





ONLINE FIELD VISIT & POST AUDIT



Photos and Video from August 20, 2020



ONLINE FIELD VISIT & POST AUDIT

Discussion



Observations

- What elements of the road may present a safety concern?
- To what extent, to which road users, and under what circumstances?
- What corridor safety issues did you observe?
- What localized safety issues did you observe?



Recommendations

- What opportunities exist to eliminate or mitigate identified safety concerns?
- What improvements would you make?
- Are any of the FHWA countermeasures beneficial?

POOR SIDEWALK CONDITIONS

CR 520 EB

- Steven Ave
- William St
- Garden Pl
- Springdale Ave

CR 520 WB

- Hance Ave
- Knight St
- Carmen Pl
- Clifford Pl





SIDEWALK OBSTRUCTIONS

Utility Poles & Traffic Signal Equipment

CR 520 EB

- Garden Pl
- William St
- Shrewsbury Ave

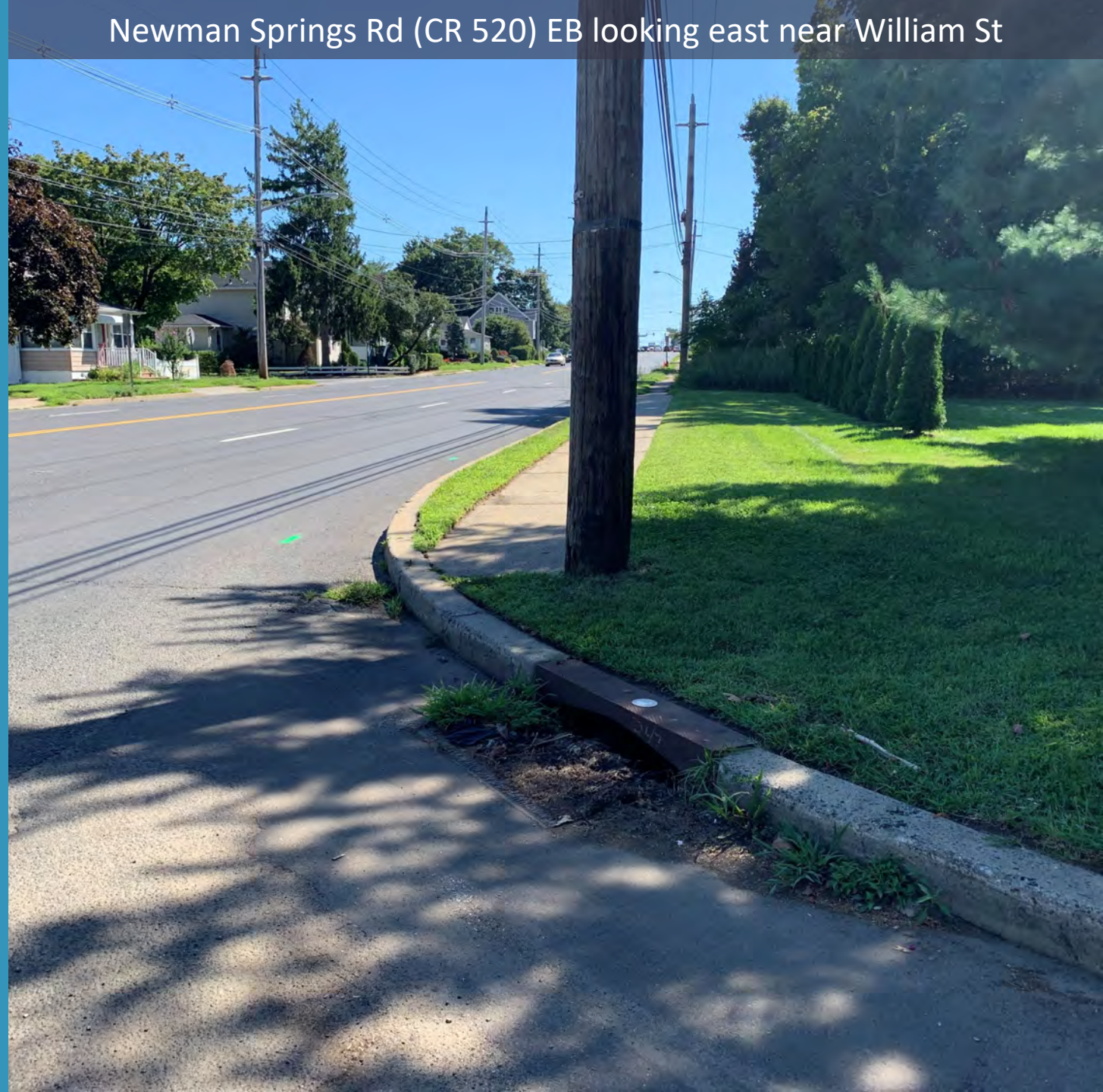
CR 520 WB

- Hance Ave
- Shrewsbury Ave

MISSING ADA CURB RAMPS

- William St
- Garden Pl
- Munson Pl
- Hance Ave*
- Knight St
- Carmen St (partial)
- Leighton Ave
- Clinton Pl (partial)

* *Under construction during field visit*



Newman Springs Rd (CR 520) WB looking west near Clifford Pl



Newman Springs Rd (CR 520) WB looking west near Carmen Pl



VARIOUS CROSSWALK STYLES

Continental

- Shrewsbury Ave (very worn)
- Hance Ave (partially worn)

Ladder

- Leighton Ave
- Clifford Pl

Standard/Traditional

- Clinton Pl (SB leg only)
- Carmen Pl

ROAD CROSS SECTION

- 4 lanes, no shoulders
- No turn lanes except at signals
- Left turn/right angle crashes associated with 4-lane sections
- Bicyclists use sidewalk
- Residential / commercial driveways throughout
- 2-lane section east of Shrewsbury Ave



Newman Springs Rd (CR 520) EB looking NW near Carmen Pl



DEBRIS NEAR RAMPS AND INLETS

- Hance Ave
- Springdale Ave
- Carmen Pl
- Clifford Pl

SIGNAL EQUIPMENT IMPROVEMENTS

- Backplates with retroreflective borders
- Yellow clearance times
- Leading Pedestrian Interval (LPI)





VIDEO





NEXT STEPS

- Preparation of RSA Report
- Review/comments from RSA Team
- Preparation of Preliminary Final Report
- Road Owner Response
- Preparation of Final Report
- Approximate timeframe: 8 weeks





THANK YOU



<http://www.gpiprojects.com/HSIP/Monmouth>

APPENDIX I

EXCERPTS FROM COUNTY PLANS/REPORTS



2016

MONMOUTH COUNTY, NEW JERSEY

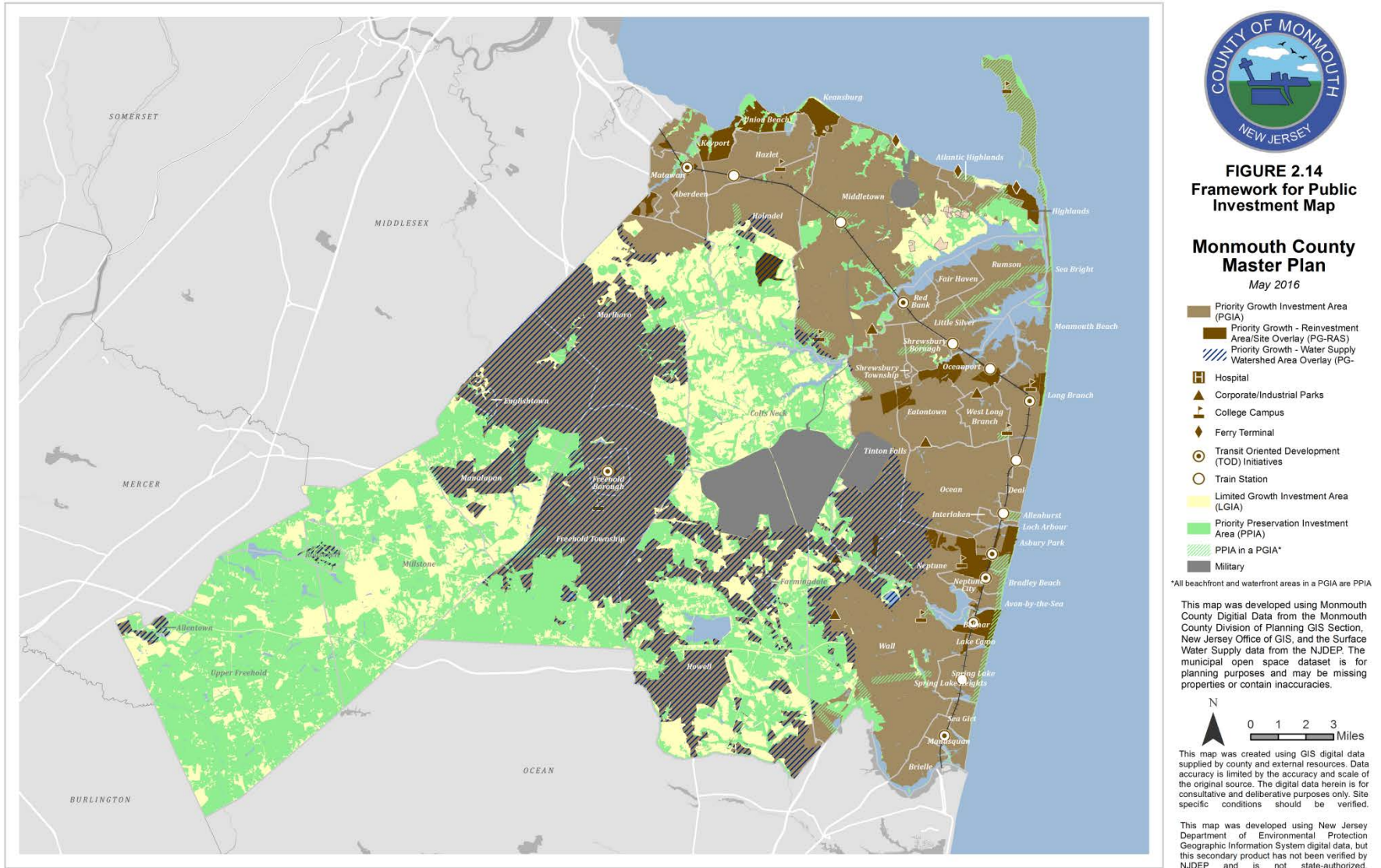
MONMOUTH COUNTY MASTER PLAN

EXCERPTS FROM

VOLUME I



Figure 2.14: Framework for Public Investment Map, 2016





EXCERPTS FROM

THE COASTAL MONMOUTH PLAN

Monmouth County Planning Board
Monmouth County, New Jersey

FINAL DRAFT

Prepared by
Maser Consulting, PA
In association with
George Henry George Partners, LLC
Reichman Frankle Inc.
VIC Group

May 2010

3.1 THE NORTHERN REGION

Table I – 2 Coastal Monmouth Northern Region Municipalities

Fair Haven	Red Bank	Sea Bright
Little Silver	Rumson	Shrewsbury Borough
Monmouth Beach		Shrewsbury Township



Red Bank Marina



Red Bank

The Northern Region is bounded by the southern shore of the Navesink River to the north and the northern shore of the Shrewsbury River to the south. It is comprised of eight municipalities as listed in the table above. As of the 2000 Census, the Northern Region had a population of 41,189 persons or approximately 17% of the Coastal Monmouth Region’s total population. Within the Northern Region, Red Bank, the largest municipality with a population of 11,844 persons, serves as the commercial and cultural center of the Northern Region. The Northern Region covers approximately 15.4 square miles.

The Northern CMR is characterized largely by the natural landscapes created by the Navesink and Shrewsbury Rivers. The majority of the municipalities in the Northern CMR are residential in character. The Region supports commercial and business districts along the major thoroughfares including State Route 35 and 36 and County Routes 520 and 13B. In addition to promoting the residential character of their municipalities, many of the towns in the Northern CMR work actively to protect the environmental resources. The Northern CMR is serviced by the North Jersey Coast Line, which maintains stations in Little Silver and Red Bank. Both stations have been renovated and improved. Over the course of the past several years, Red Bank has become a local and regional destination due to its draw as a major center of commerce and the arts.

3.2 THE NORTH CENTRAL REGION

Table I – 3 Coastal Monmouth North Central Region Municipalities

Eatontown	Long Branch	West Long Branch
	Oceanport	

The North Central Region is bounded by the northern shore of the Shrewsbury River to the north and the municipalities of Ocean and Deal to the south. It is comprised of four municipalities as listed in the table above. As of the 2000 Census, the North Central Region had a population of 59,413 persons or approximately 24.5% of the Coastal Monmouth Region’s total population. Within the North Central Region, Long Branch, the largest municipality with a population of 31,340 persons, is the regional center for the North Central Region. The North Central Region covers about 16.9 square miles.

The North Central CMR is characterized by its diverse mix of residential and commercial uses. The Region is primarily shaped by the major roadways that crisscross its municipalities, providing regional access to its commerce and business centers. The North Central CMR is also home to Monmouth University, the only residential four-year higher education institution in Monmouth County. The municipalities of Eatontown and Long Branch serve the surrounding communities as centers of regional commerce with their vast array of shopping and entertainment opportunities. The North Central CMR is serviced by the North Jersey Coast Line, which maintains two year-round stations in Long Branch and a seasonal station at Monmouth Park in Oceanport.



REDEVELOPMENT AREAS

ALLENHURST

- MAIN STREET

ASBURY PARK

- WATERFRONT - BOARDWALK
- WATERFRONT - PRIME RENEWAL
- WATERFRONT - RENOVATION INFILL
- CENTRAL BUSINESS DISTRICT

BELMAR

- SEAPORT VILLAGE
- TRANSIT VILLAGE

EATONTOWN / FORT MONMOUTH

- FORT MONMOUTH
- CHARLES WOOD AREA
- GOLF CLUB
- HOWARD COMMONS

LONG BRANCH

- BROADWAY-GATEWAY
- BEACHFRONT NORTH
- PIER VILLAGE CENTER
- HOTEL CAMPUS
- BEACHFRONT SOUTH

NEPTUNE CITY BORO

- STEINER AVENUE

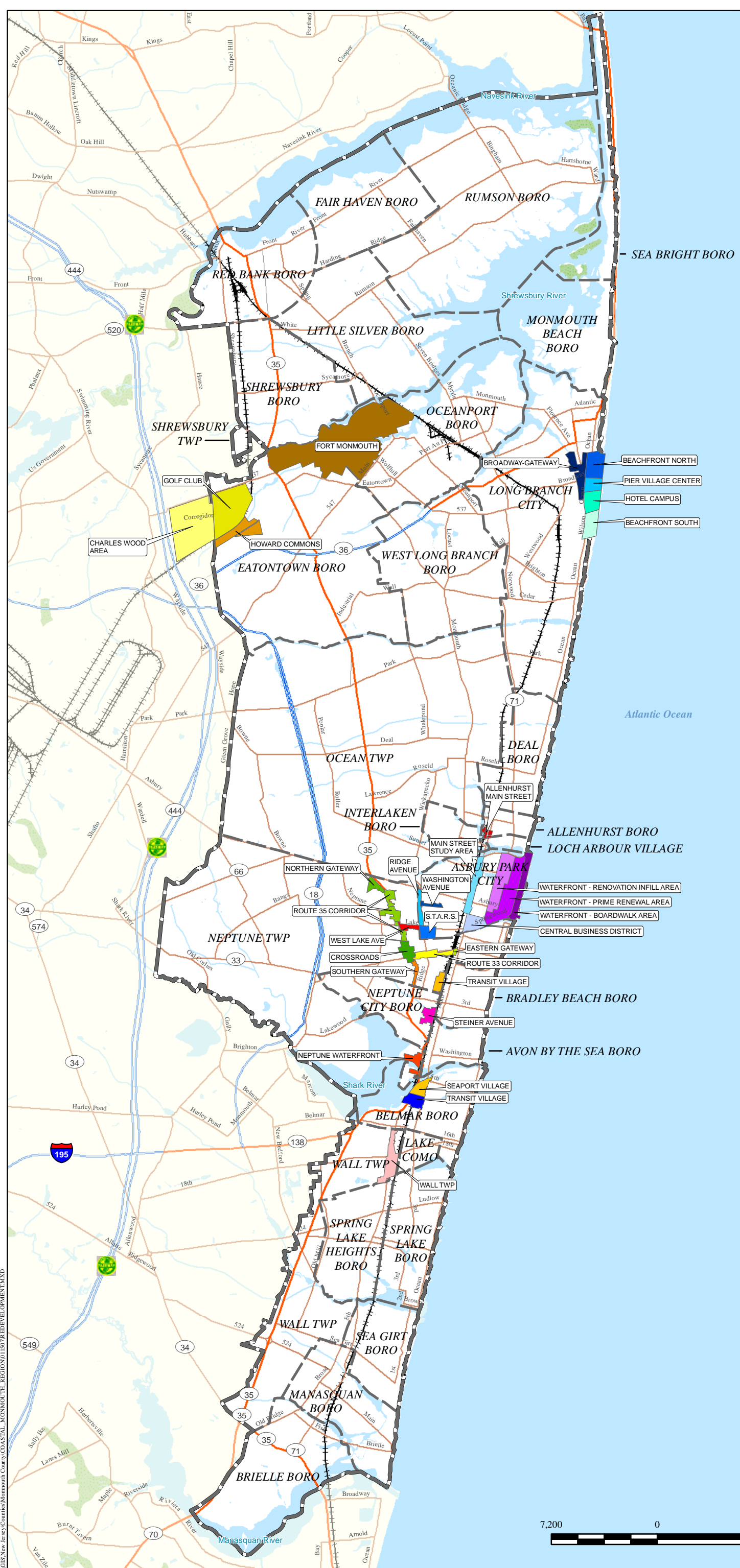
NEPTUNE TOWNSHIP

- CROSSROADS
- GATEWAY NORTH
- ROUTE 35 CORRIDOR
- GATEWAY EAST
- ROUTE 33 CORRIDOR
- TRANSIT VILLAGE
- GATEWAY SOUTH
- NEPTUNE WATERFRONT
- WEST LAKE AVE

WALL TOWNSHIP

- WEST BELMAR GATEWAY

THIS MAP WAS DEVELOPED USING MONMOUTH COUNTY DIGITAL DATA FROM THE 2003 LANDBASE PROJECT. THE MAP ALSO USED DATA FROM THE NJDEP. THIS SECONDARY PRODUCT HAS NOT BEEN VERIFIED AND IS NOT COUNTY OR STATE AUTHORIZED.



GIS: New Jersey Coastal Monmouth County Coastal Monmouth Region I-17 Redevelopment

8.2. COUNTY ROADWAYS

A number of the CMR municipalities have expressed interest in developing flexible road design standards that reflect the municipal ‘vision’ for their “Main Street” or local residential roads, particularly along the coastline, where there is a high degree of interaction between vehicles and pedestrians.

A more ‘context sensitive’ approach is needed to ensure that the traffic is not only “moving safely and efficiently”, but is also in harmony with the natural, social, economic and cultural environment.

The unique nature of the CMR lends itself to pedestrian and bicycle-friendly streets. The on-going interest in rehabilitation and revitalization of the commercialized districts within many CMR municipalities also provides opportunities for streetscape improvements. However, generic road design standards may not support pedestrian-friendly and walkable streets. Municipalities should work with the County and State (depending upon road jurisdiction) to evaluate their transportation needs and create refined design standards that work in their community. The NJDOT has published *Flexible Design of New Jersey’s Main Streets* (NJDOT, undated) as a guide for ‘context sensitive’ design. The County encourages a context sensitive design approach and will work with municipalities and State agencies to positively accomplish this effort. The NJDOT is also promoting “complete streets” which provide multimodal uses including pedestrian, bicycle, transit and motor vehicle facilities.

Context Sensitive Design

Six key principles:

- 1. Balance safety, mobility, community and environmental goals in all projects.*
- 2. Involve the public and affected agencies early and continuously.*
- 3. Use an interdisciplinary team tailored to project needs.*
- 4. Address all modes of travel.*
- 5. Apply flexibility inherent in design standards.*
- 6. Incorporate aesthetics as an integral part of good design.*

Municipalities should take the lead on advancing “context sensitive design” on local “Main Streets” which are County roads. The County would review and have final approval of modifications to roadways which are under its jurisdiction. The municipalities could also coordinate this effort with other State agencies. The State may also provide sources of funding and help prioritize needed improvements.

Revisions to current County roadway standards may include changes in functional road classification to direct traffic either to alternative routes or else to acknowledge the nature of the road and its multiple functions. Pedestrians, bicycle, and motor vehicles needs should be balanced and accommodated through a more flexible, but safe, street design. Updated road design standards should be adopted by the municipalities to address new local streets. Municipalities should take the lead to identify affected roads that need a more context sensitive design approach.

8.2.1 Identified County Corridor Issues

There are a number of County roadways in the northern section of the CMR which have been specifically identified at municipal meetings, within municipal master plans or other planning studies, by the Regional Collaborative or in Traffic Problem Statements submitted by CMR municipalities as being heavily congested and requiring improvements. These include the Rumson Road (CR 520), River Road (CR 10), and Ridge Road (CR 34) corridors within Fair Haven, Rumson, Red Bank and the Newman Springs Road (CR 520) corridor within Red Bank, Shrewsbury, and Tinton Falls corridor east of the Garden State Parkway Exit 109. The municipalities indicated that excessive speeding, congestion, and a lack of bicycle and pedestrian facilities are their main concerns along these corridors. They also stressed that improvements should be sensitive to the character of their municipality. (See Table II-8 and Composite Transportation Issues Map II-15)

Municipalities should work collectively with the MCDOE to assess and implement a comprehensive improvement program for each corridor. The MCDOE should take the lead to determine the need and scope of such studies. The NJDOT and NJTPA must be involved to include these projects for funding in their Work Programs. Although the subject corridors are not under the jurisdiction of the State, intersections along the County routes may be controlled by the State; therefore, it is important to include State agencies in these discussions. For the Newman Springs Road Lincroft Area corridor, a pedestrian Improvement study was

completed⁹. This study can form the basis for funding pedestrian improvements. All four corridors will first require a traffic evaluation.

8.2.2 Identified County Road Intersection Issues

Numerous congested intersections have been identified by CMR municipalities. Most of the congestion is a result of the summer traffic. Traffic Problem Statements were prepared by eight municipalities to begin the process for design and funding many of these congested intersections. Traffic Problem Statements are included in Appendix Volume III. The intersections are shown on the Composite Transportation Issues Map and further described in the *Regional Profile* (Section 15.0 Transportation).

Congested intersections can be alleviated as funding permits through a variety of strategies. Signal timing, lane assignment optimization and prohibiting turning movements are improvements which can be made without widening or increasing capacity. However, dependent upon traffic variables, widening for additional lanes may be the only viable option. Affected municipalities should work with the MCDOE who will assess, prioritize and develop recommendations for intersections under County jurisdiction. The NJDOT and NJTPA should also be participants, depending on funding.

8.2.3 Speeding and Cut-Through Traffic

Many municipalities have expressed interest in implementing traffic calming measures within residential neighborhoods. Speeding was identified as a major problem. Heavy traffic congestion, especially during the summer season, was another issue. Drivers are using local streets to avoid congestion, raising safety concerns. Traffic calming measures are a proven tool to reduce traffic speed and redirect non-local traffic. These techniques are location specific. Municipalities should begin by identifying the roadways they wish to evaluate. After data collection and evaluation, different traffic calming strategies can be reviewed. A cost-benefit ratio approach should be used to determine the most appropriate mechanism. Depending on the jurisdiction, certain roadways will require County or State approval to implement the changes. A case study is provided below of Rocky Hill, Somerset, New Jersey, which installed traffic calming measures through its Main Street which is CR 518.

Case Study: Traffic Calming Network, Rocky Hill, Somerset County, NJ.

A residential neighborhood in Rocky Hill wanted to decrease speeding and cut-through traffic through their community and petitioned the Borough to install speed humps, curb bump-outs, appropriate signage and pavement markings to curtail the undesired traffic. A pilot program was conducted within the community utilizing temporary measures to compare the before and after traffic operations. The desired results were met, so the Borough completed the installation of the traffic calming network.



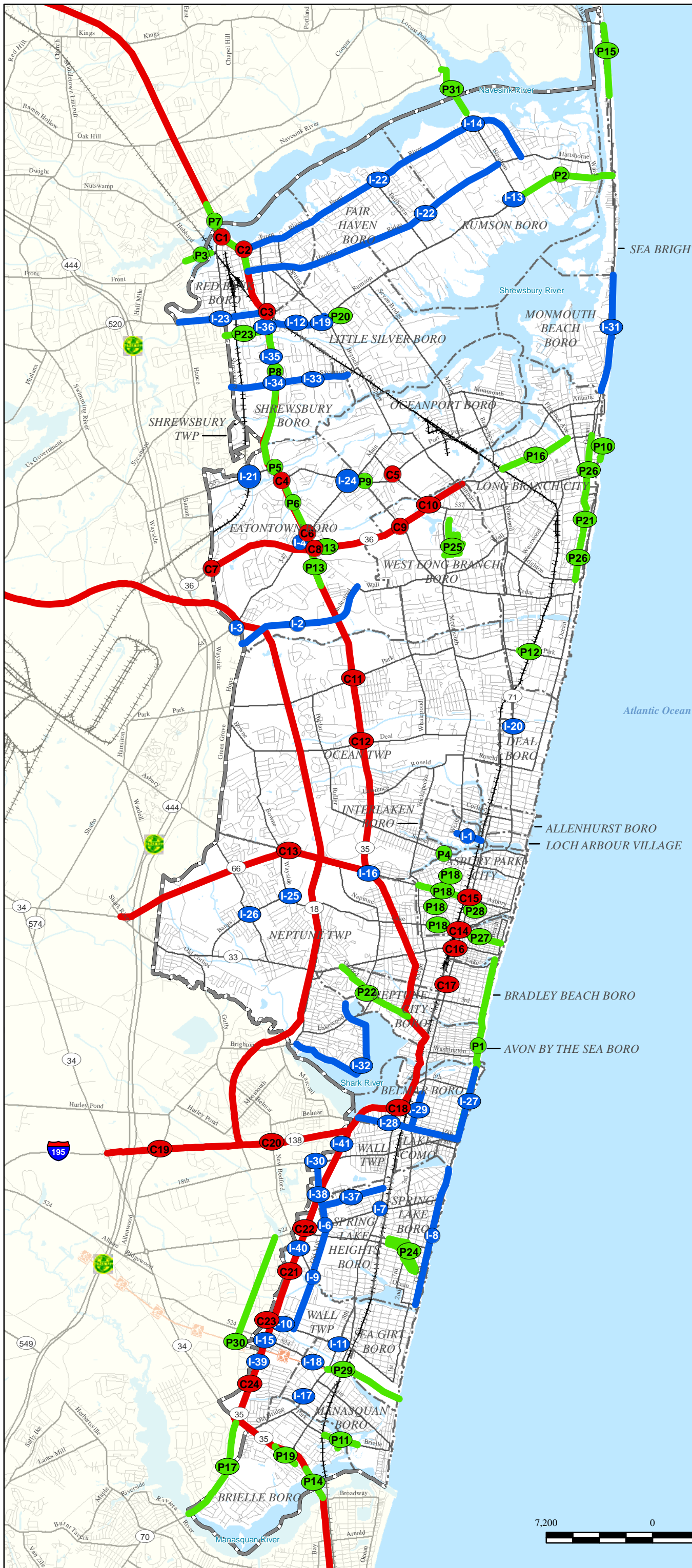
⁹ Orth-Rodgers & Associates. March 2006. *County Route 520, Newman Springs Road Corridor Study. Monmouth County, New Jersey.*

Table II - 8 Transportation Issues Identified by Municipalities and Regional Collaborative











No.	ROADWAY/INTERSECTION	CATEGORY	MUNICIPALITY
Transportation Issues Identified by Municipalities and Regional Collaborative			
I-1	Grassmere Avenue ("Cut Through" Road) Between Main Street (CR 15) & SR 35	Highway	Interlaken
I-2	Industrial Way	Highway	Eatontown *
I-3	Hope Road (CR 51) & Industrial Way West	Intersection	Eatontown *
I-4	South Street & Wycoff Road (CR 547) (UD)	Intersection	Eatontown *
I-5	Allaire Road (CR 524) & SR 35	Intersection	Wall Township
I-6	Allaire Road (CR 524) & Old Mill Road	Intersection	Spring Lake Heights
I-7	Allaire Road (CR 524) / Ludlow Road & SR 71	Intersection	Spring Lake Heights *
I-8	Ocean Avenue	Highway	Spring Lake
I-9	Old Mill Road	Highway	Spring Lake Heights *
I-10	Sea Girt Avenue & SR 35	Intersection	Wall *
I-11	Sea Girt Avenue (CR 49) & Broad Street (CR 20)	Intersection	Manasquan
I-12	White Road (Cut Through Road) Between Branch Road (CR 11) & SR 35	Highway	Little Silver
I-13	Bingham Avenue (CR 8A) & Rumson Road (CR 520) (UC)	Intersection	Rumson
I-14	Bingham Avenue (CR 8A) & River Road (CR 10)	Intersection	Rumson
I-15	Manasquan Circle (SR 35 / Atlantic Avenue (CR 524)	Highway	Wall *
I-16	Asbury Avenue Circle (CR 16 / SR 66 / SR 35)	Highway	Neptune Township Ocean Township
I-17	South Street (CR 20) & Lakewood Road	Intersection	Manasquan
I-18	Main St (CR 524) & Atlantic Avenue	Intersection	Manasquan
I-19	Rumson Rd (CR 520) & Branch Avenue (CR 11)	Intersection	Little Silver
I-20	Phillips Road & SR 71	Intersection	Deal
I-21	Replacement of Tinton Avenue Railroad Bridge	Bridge	Eatontown
I-22	River Road & Ridge Road Corridors	Corridor	Rumson
I-23	Newman Springs Road Corridor	Corridor	Multiple
I-24	Wycoff Road & Broad St (SR 71)	Intersection	Eatontown *
I-25	West Bangs Avenue (CR 17) & Wayside Road (UD)	Intersection	Neptune *
I-26	West Bangs Avenue (CR 17) & Green Grove Road	Intersection	Neptune *
I-27	Ocean Avenue (CR 18)	Highway	Belmar *
I-28	16 th Avenue between SR 35 & Ocean Avenue (CR 18)	Highway	Belmar *
I-29	Main Street (CR 30) between 8 th Avenue & 16 th Avenue (CR 18)	Intersection	Belmar *
I-30	Old Mill Road & 18 th Avenue (CR 30)	Intersection	Wall *
I-31	Ocean Avenue (SR 36)	Highway	Monmouth Beach *
I-32	Shark River Bikeway	Bicycle/Pedestrian	Neptune Township *
I-33	Sycamore Avenue (CR 13A)	Highway	Shrewsbury Borough *
I-34	Broad Street & Sycamore Avenue (CR 13A)	Intersection	Shrewsbury Borough *
I-35	Broad Street & Patterson Avenue	Intersection	Shrewsbury Borough *

**MAP II-15
COMPOSITE
TRANSPORTATION
ISSUES**

**COASTAL MONMOUTH REGION
MONMOUTH COUNTY NEW JERSEY**



Legend

-  COASTAL MONMOUTH REGION
-  MUNICIPAL BOUNDARIES
-  ROADWAYS
-  EDGAR FELIX BIKEWAY
-  RAILROADS
-  WATER BODIES
-  CONGESTED STATE INTERSECTIONS
-  CONGESTED STATE CORRIDORS
-  IDENTIFIED ROADWAY & PEDESTRIAN ISSUES
-  PLANNED ROADWAY & PEDESTRIAN IMPROVEMENTS

SOURCES: PLANNED ROADWAY & PEDESTRIAN IMPROVEMENTS ARE BASED ON THE PROJECTS LISTED ON THE NJDOT AMENDED DRAFT FY 2008-2011 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM ("TIP") ACCESSED ON OCTOBER 24, 2007.

THIS MAP WAS DEVELOPED USING MONMOUTH COUNTY DIGITAL DATA FROM THE 2003 LANDBASE PROJECT. THE MAP ALSO USED DATA FROM THE NJDEP. THIS SECONDARY PRODUCT HAS NOT BEEN VERIFIED AND IS NOT COUNTY OR STATE AUTHORIZED.





Coopers Bridge
A Primary Gateway that provides link South from Middletown Township to Red Bank Borough. Augment decorative lighting with colorful banners or seasonal flower baskets to create entry rhythm.



Oceanic Bridge
A Secondary Gateway that provides link South from Middletown Township to Rumson Borough. Install wayfinding signs at bridge terminus with River Road.



Highlands Bridge

Oceanic Bridge

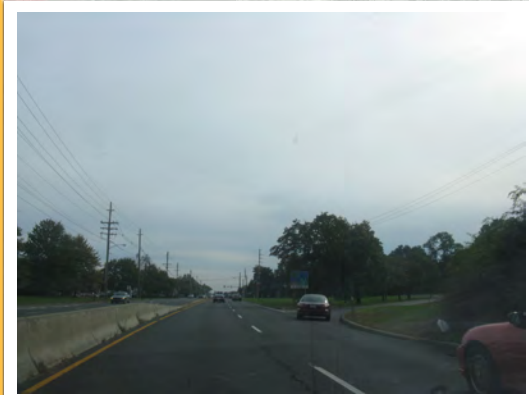
Coopers Bridge

Newman Springs Rd.



Highlands Bridge
Primary Gateway that provides link South from Highlands Borough to Sea Bright Borough linking Bayshore to the Coastal Region. Historic design elements could be augmented with decorative lighting and artist treatment on bridge walls.

County Route 13A



Newman Springs Road
Primary Gateway from Garden State Parkway Exit 109 East to Red Bank Borough and Shrewsbury Borough. Consider special median treatment and wayfinding signage to denote entry and improve travel way.

**County Route 537
Tinton Ave**



County Route 537: Tinton Ave.
Secondary Gateway East of the Garden State Parkway at Hope Road through greenway area of Fort Monmouth.



County Route 13A
Secondary Gateway from intersection with Shrewsbury Avenue East to the intersection with Route 35.

Gateways

Coastal Monmouth Region - Monmouth County, New Jersey

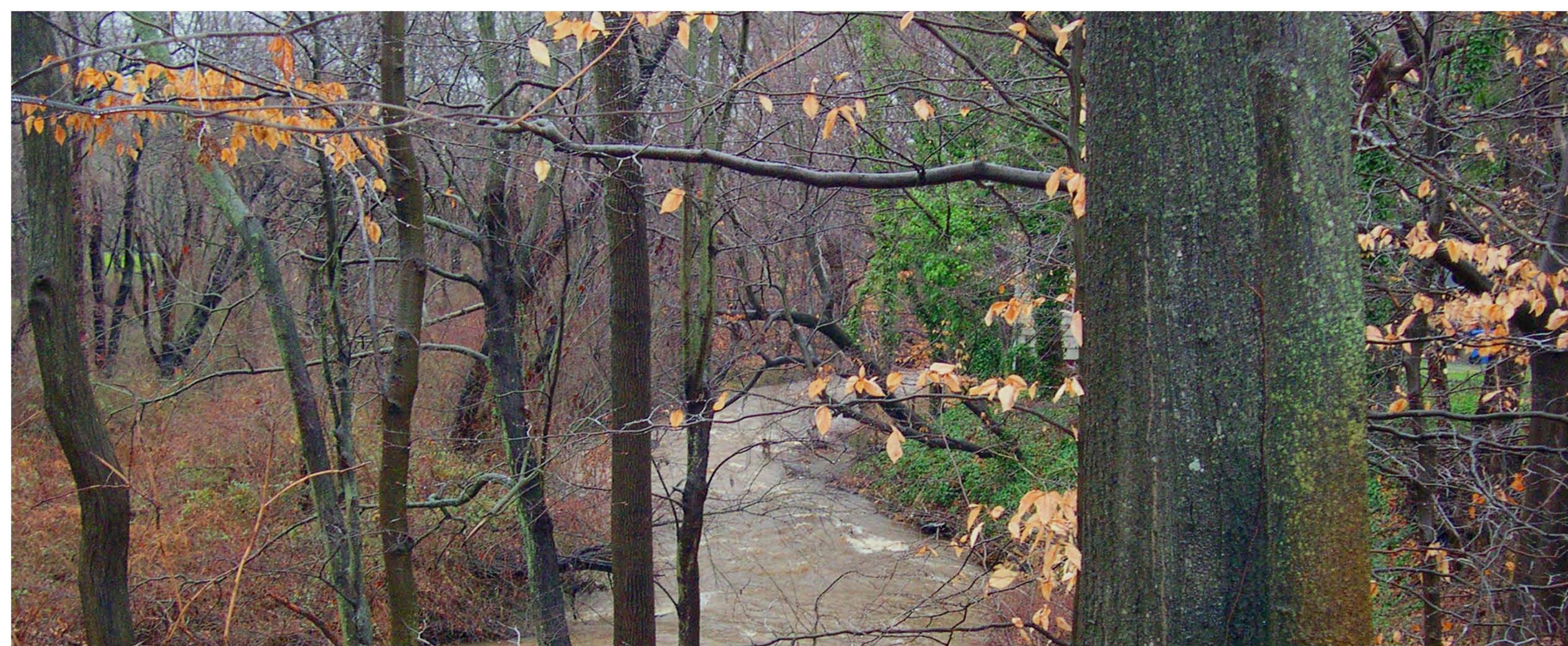
MAP II-19

Highlands Bridge, Oceanic Bridge, Coopers Bridge, Newman Springs Road, County Route 13A and County Route 537



APPENDIX J

EXCERPTS FROM MUNICIPAL PLANS/REPORTS



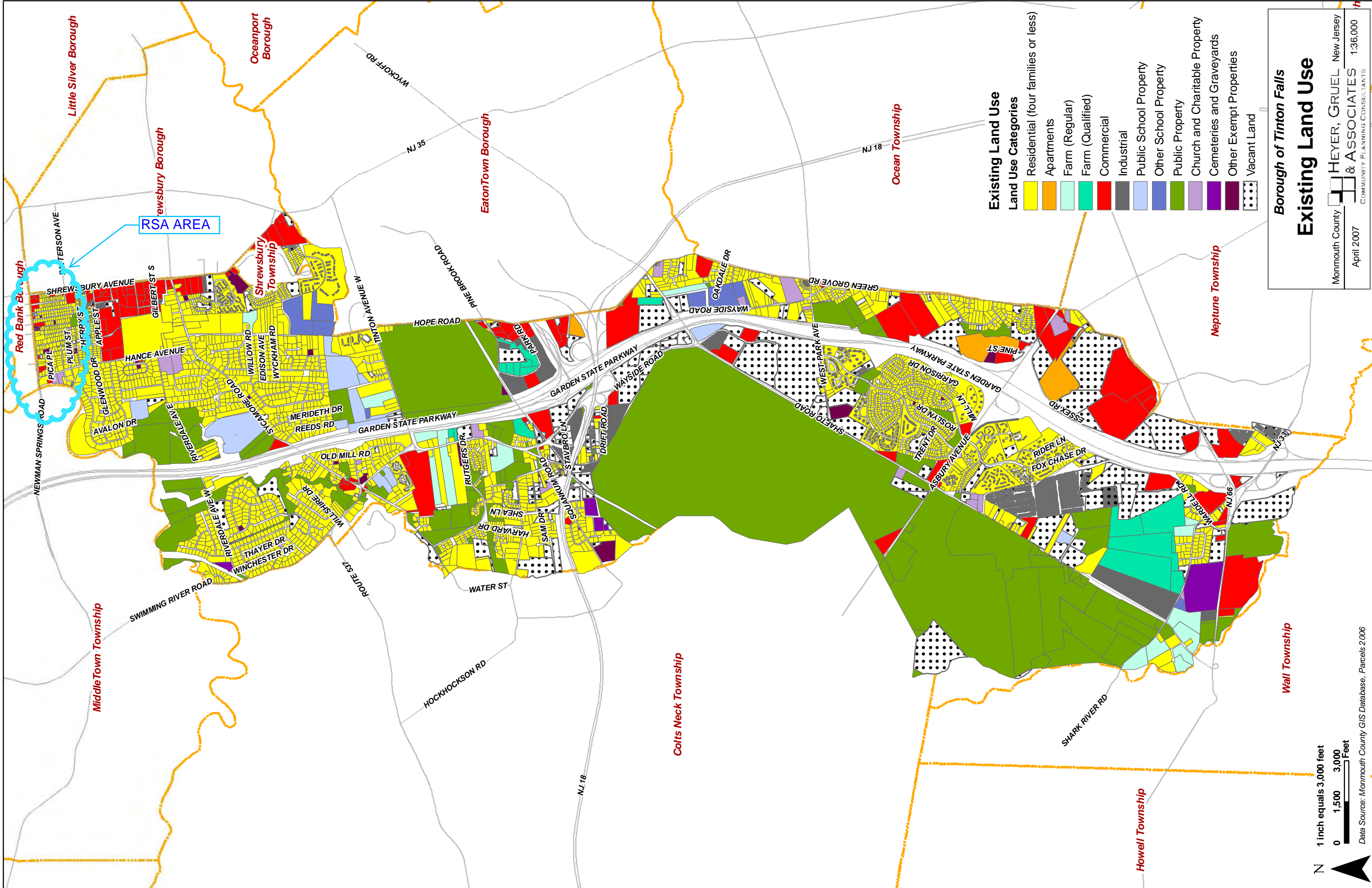
Borough of **TINTON FALLS**

EXCERPTS FROM



Master Plan

Prepared by Heyer, Gruel & Associates
April 2007



RSA AREA

Existing Land Use

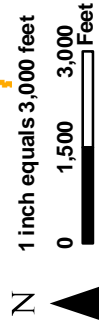
Land Use Categories

- Residential (four families or less)
- Apartments
- Farm (Regular)
- Farm (Qualified)
- Commercial
- Industrial
- Public School Property
- Other School Property
- Public Property
- Church and Charitable Property
- Cemeteries and Graveyards
- Other Exempt Properties
- Vacant Land

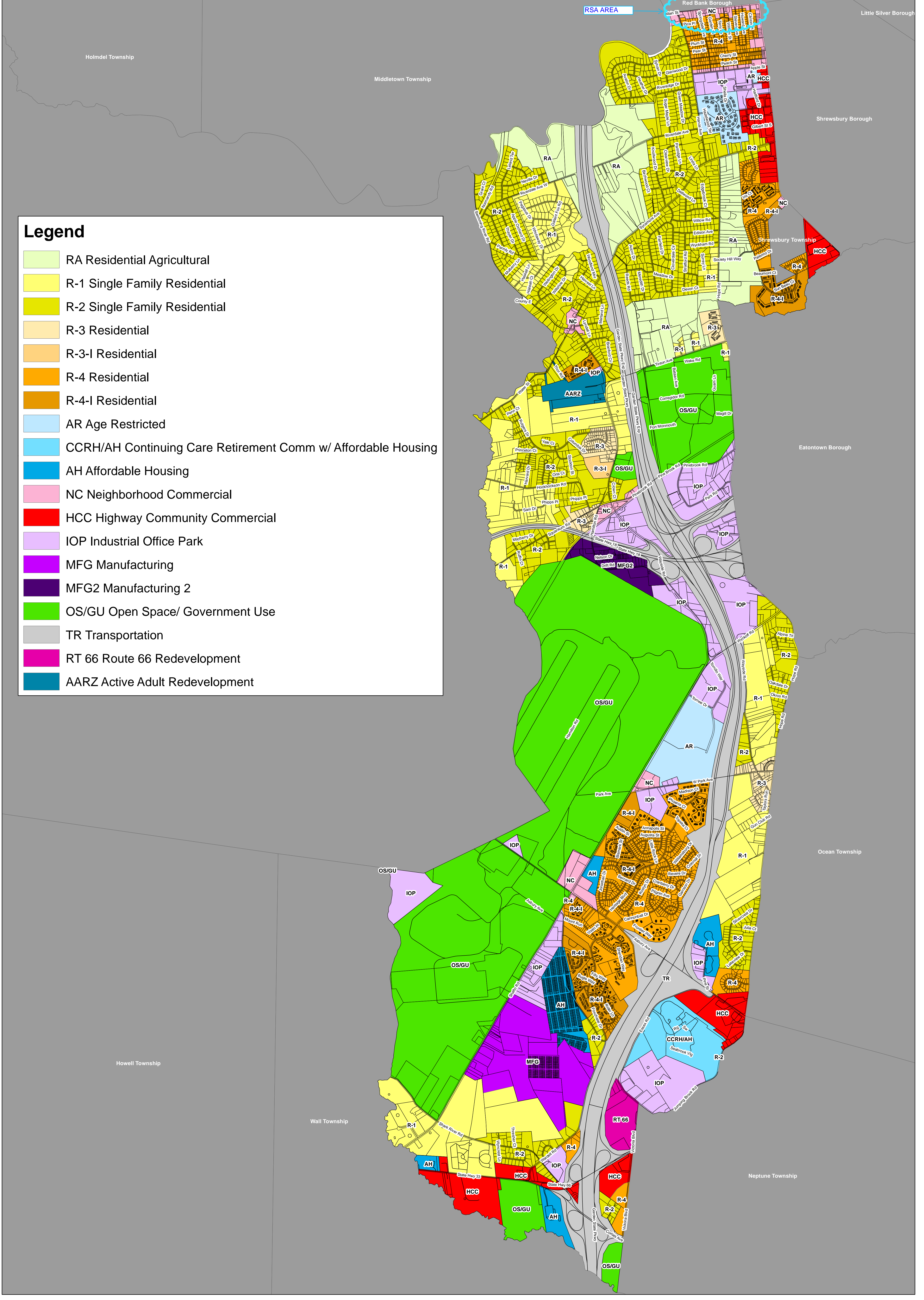
Borough of Tinton Falls

Existing Land Use

Monmouth County HEYER, GRUEL & ASSOCIATES
 New Jersey
 April 2007
 1:36,000
 COMMUNITY PLANNING CONSULTANTS



Data Source: Monmouth County GIS Database, Parcels 2006



Legend

- RA Residential Agricultural
- R-1 Single Family Residential
- R-2 Single Family Residential
- R-3 Residential
- R-3-I Residential
- R-4 Residential
- R-4-I Residential
- AR Age Restricted
- CCRH/AH Continuing Care Retirement Comm w/ Affordable Housing
- AH Affordable Housing
- NC Neighborhood Commercial
- HCC Highway Community Commercial
- IOP Industrial Office Park
- MFG Manufacturing
- MFG2 Manufacturing 2
- OS/GU Open Space/ Government Use
- TR Transportation
- RT 66 Route 66 Redevelopment
- AARZ Active Adult Redevelopment



DEVELOPMENT TRENDS

Residential

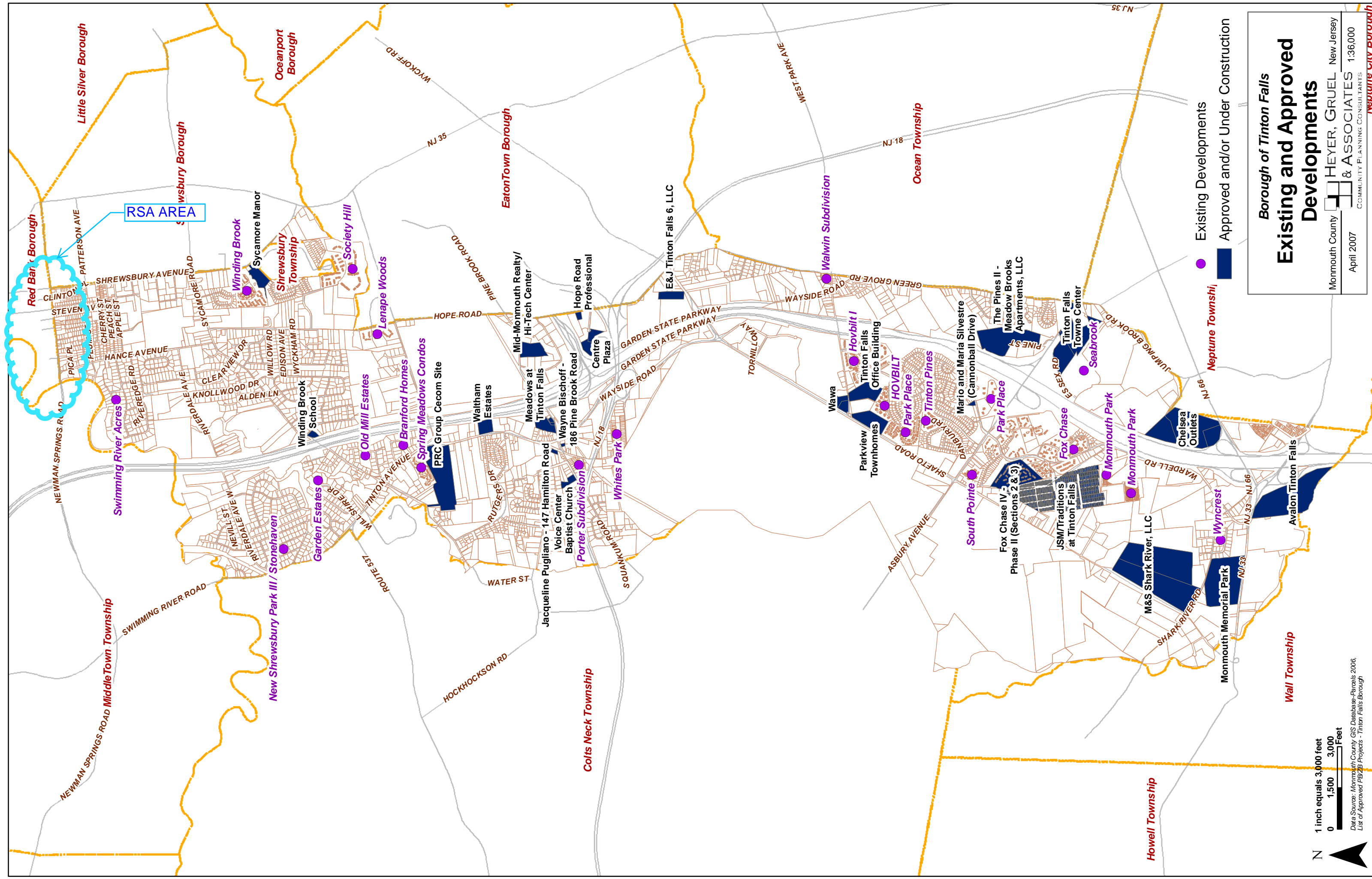
Recent residential development trends in Tinton Falls have been in line with existing zoning, and include several approved higher density developments with an affordable component (i.e. Traditions and Avalon Bay). These developments, combined with the smaller Parkview Townhomes and Meadows at Tinton Falls developments, will result in well over 500 new residential units. Greenbriar Falls, a new active adult community currently under construction, will contain 168 residential units. In addition, many of the larger residential developments in the Borough, such as Fox Chase, The Pines, and Seabrook, are beginning their final phases of development and will reach their full build-out potential.

There is also a steady flow of smaller subdivisions that have been approved under the Borough's zoning standards. All existing and approved projects are shown on the Approved and/or Under Construction and the Existing and Approved Developments Maps.

Non-Residential

By far the largest non-residential development planned in Tinton Falls is the Jersey Shore Premium Outlets (Chelsea Outlets), which will contain approximately 450,000 square feet of retail space. Infrastructure construction has already begun on the outlets, which will be located just off the Garden State Parkway at Exit 100 along Essex Road and Route 66. There are a number of other smaller-scale non-residential developments that have been approved, including a WaWa convenience store and gas station. The Tinton Falls Towne Centre, which will contain approximately 24,000 square feet of retail space, has recently been completed.

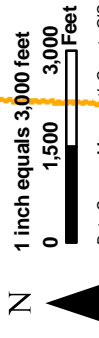
In general, there is a steady stream of smaller-scale non-residential development (e.g. office, warehousing) being approved in Tinton Falls, particularly within the MFG and IOP zones. All existing and approved projects are shown on the Approved and/or Under Construction and the Existing and Approved Developments Maps.



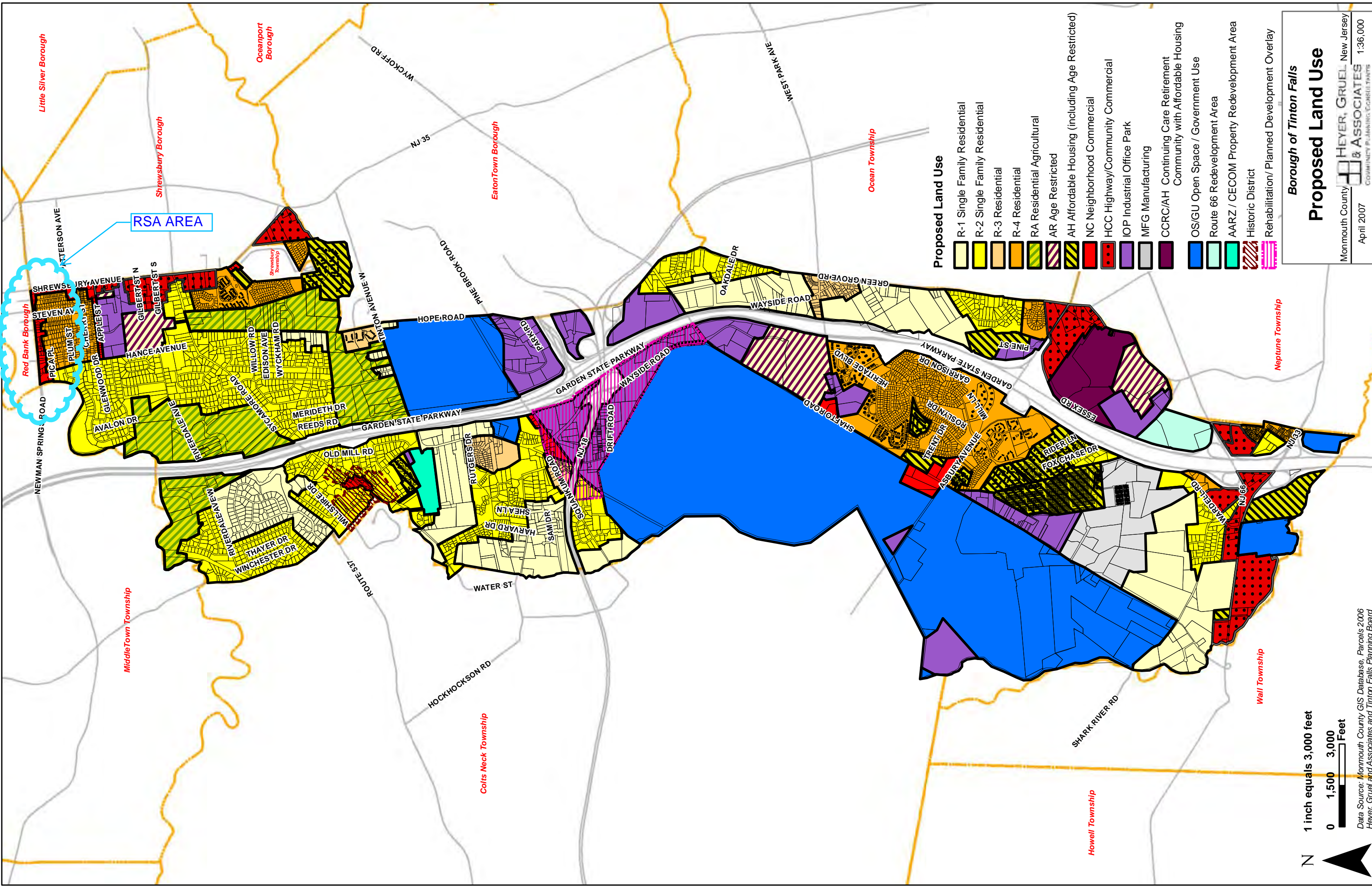
- Existing Developments
- Approved and/or Under Construction

Borough of Tinton Falls
Existing and Approved Developments

■ HEYER, GRUEL
 & ASSOCIATES
 COMMUNITY PLANNING CONSULTANTS
 New Jersey
 Morristown County
 April 2007
 1:36,000



Data Source: Monmouth County GIS Database-Parcels 2006.
 List of Approved PB/ZB Projects - Tinton Falls Borough



RSA AREA

Proposed Land Use

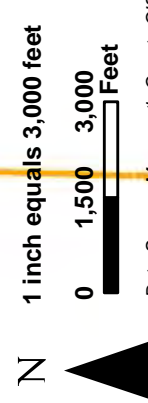
- R-1 Single Family Residential
- R-2 Single Family Residential
- R-3 Residential
- R-4 Residential
- RA Residential Agricultural
- AR Age Restricted
- AH Affordable Housing (including Age Restricted)
- NC Neighborhood Commercial
- HCC Highway/Community Commercial
- IOP Industrial Office Park
- MFG Manufacturing
- CCRC/AH Continuing Care Retirement Community with Affordable Housing
- OS/GU Open Space / Government Use
- Route 66 Redevelopment Area
- AARZ / CECOM Property Redevelopment Area
- Historic District
- Rehabilitation/ Planned Development Overlay

Borough of Tinton Falls

Proposed Land Use

Monmouth County HEYER, GRUEL, New Jersey
& ASSOCIATES
 COMMUNITY PLANNING CONSULTANTS

April 2007 1:36,000



Data Source: Monmouth County GIS Database, Parcels 2006
 Heyer, Gruel and Associates and Tinton Falls Planning Board

EXCERPTS FROM 1995 Master Plan

RED BANK PLANNING BOARD:

Mayor Edward McKenna, Jr.
Robert J. Bifani (Councilman)
John Cash (Vice Chairman)
Leonard Calabro
John Goode
Douglas Haviland

Callie Lasch
Anthony Lupo (Chairman)
Daniel Mancuso (Alternate)
Marta Person (Borough Administrator)
Sally Levine (Borough Administrator to 12.95)
Donna Halligan (Planning Director)

ADOPTED: MAY 13, 1996

PREPARED FOR:

Borough of Red Bank Planning Board
32 Monmouth Street
Red Bank, NJ 07701

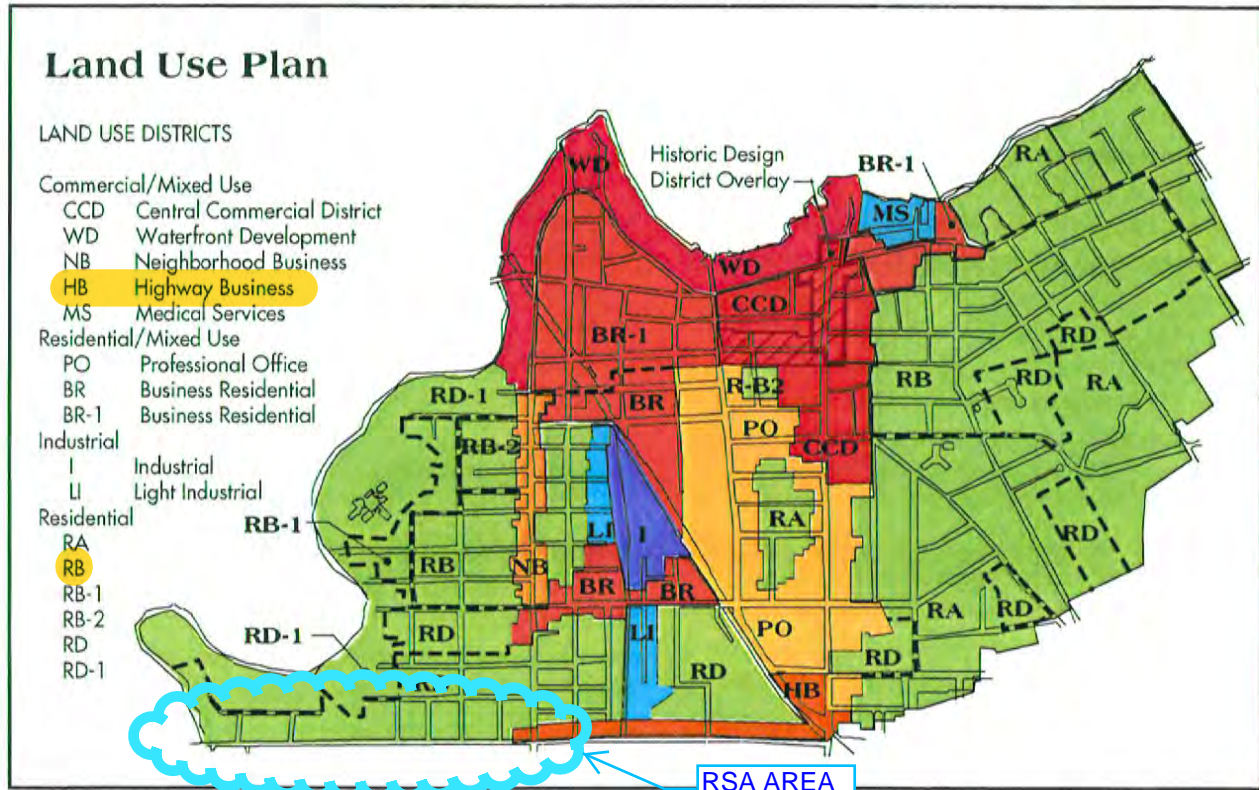
PREPARED BY:

Brown & Keener Urban Design
2401 Locust Street
Philadelphia, PA 19103
215.751.1133

With the assistance of:

The Atlantic Group
economic development
Agrest and Gandelsonas, Architects
design
S.O.M.E. Architects PC
facility planning
Lehr and Associates
traffic and transportation planning
T&M Associates
infrastructure planning
Community Investment Strategies
affordable housing

Borough of Red Bank, New Jersey



Guidelines will give clear direction to developers, provide flexibility to the borough, limit the need for variances that zoning can often require, and be the best tool the community has to preserve its character while also encouraging development. The zoning Categories recommended for inclusion in a new set of Regulations, and the accompanying Guidelines, are therefore as follows:

1. Commercial/Mixed Use Land Use Areas:

Category CCD (Central Commercial District):

The CCD area extends from the east side of Broad St. to the west side of Maple Ave., from Monmouth St. to Front St. It is the historic center of town, with the largest collection of retail space, and with the Historic District area at its heart. In order to realize the many

goals listed above, this zoning Category will be a true mixed-use area. It will also accommodate a density of development that makes the commercial area thrive and adds to the tax revenues of the municipality.

In order to accomplish these specific objectives, a wide variety of uses will be permitted throughout the entire District (for instance, retail of various types, offices, hotels, restaurants, entertainment, and a limited amount of residential). All types of retail uses will be permitted, except a few that are inconsistent with this location at the heart of town (e.g., gun sales, large supermarkets, drive-in fast food sales, tattoo parlors, etc.). The residential types that will generally be permitted are the multi-family conversions of existing buildings (except at those ground floors where retail is required), and the specific use of

with the need to protect the vitality and character of adjacent downtown, the zone for development and growth is limited to the area.

Category NB (Neighborhood Business): This district is intended to serve the neighborhoods around it, in contrast to the CCD district which serves the whole town and the region. Therefore there will be limitations on the nature of retail uses and on the residential developments that will be permitted, to assure that they support this basic intention.

While all the retail types permitted in the CCD district will also be permitted here, there will be limitations on the size of individual retail space. As stated in the Summary of the 1995 Plan, the purpose is to encourage small neighborhood-related shops, of the kind often referred to as "mom-and-pop stores".

Residential uses will be permitted as part of the borough-wide intention to encourage an increase in the population and to have a mix of uses throughout. This use must not interrupt the desired continuity of retail at the center of the district, however. Therefore "over the shop" residential will be permitted throughout, but the permitted higher density types of attached single family, garden apartments, and townhouses should be located outside this retail core, or else they should contain ground floor retail space within them.

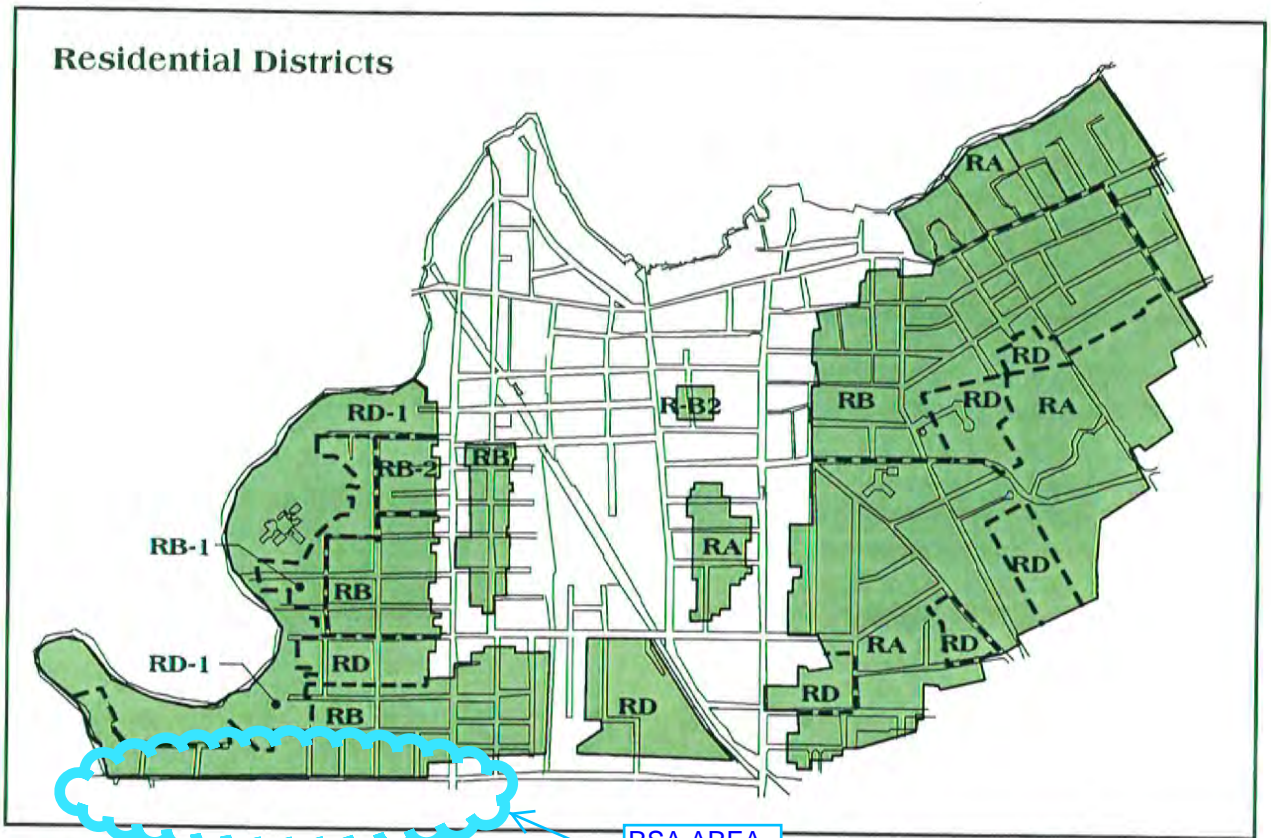
Parking must not interrupt the continuity of the shopping experience, and so the necessary parking lots must not be located along the sidewalk at the heart of this retail area. Note that shared, off-site, parking will be permitted in this district in order to meet these design objectives, but that it may not be provided in multi-story parking garages.

Category HB (Highway Business): This category permits a wide variety of roadside uses, ranging from offices to retail, and includes automobile sales and repair, and service stations. Its purpose is to accommodate the needs of highway-oriented businesses, including the larger stores known as "big-box retail", along Newman Springs Road.

Category BR (Business/Residential Mixed Use): This category will permit the widest range of uses of any single category in the Planning and Development Regulations, including single and multi-family residential, offices, retail, personal service, etc. The name indicates its application in this Plan, which is as a support for the various commercial and business uses that can exist within certain neighborhoods.

The permitted retail and personal service uses will be virtually identical to those in the CCD and BR-1 (which is described below) districts, with the specific exception of the sale of antiques, which are to remain focused only in the areas near the Galleria and Broad St. The uses that are specifically prohibited in those other districts are prohibited here, in order to assure their compatibility with the primary residential uses of this district.

Because this is a neighborhood district, the patterns of new buildings and the nature of renovations must be compatible with the scale and character of those neighborhoods. Therefore the Regulations will include criteria concerning set-backs, building footprints, building heights, etc. that are consistent with existing patterns. The two important differences between the BR district and the BR-1 district will probably be those of height and front yard setbacks. Buildings in this district should be compatible with residential neighborhood character, and therefore should probably be no taller than three



2. Residential Land Use Areas:
Residential uses are the dominant land uses in Red Bank. The various neighborhoods are varied and stable, and the different zoning categories reflect that variety. As pointed out above, some of the design and planning criteria, which deal with building sizes, lot sizes, set backs, and so on, must be evaluated to assure their consistency with the goal of encouraging both new and re-use development, while maintaining the overall character of the town.

Category RA (Residential): This category is limited to single-family detached residences, with a minimum lot size of 7,500 s.f.

Category RB (Residential): The locations and uses of the various existing R-B districts include single family dwellings on lots with a

minimum area of 3,500 s.f., and so is appropriate to existing neighborhood patterns.

Category RB-1 (Residential): This district, which is the area between the R-D1 district along the river and Leighton and Tilton Aves., permits single family attached dwellings as well as smaller-lot single family detached houses. These criteria are compatible with the nature of the existing neighborhood, which is also walkable to the Shrewsbury Ave. shops and the elementary school.

Category RB-2 (Residential): The R-B2 districts permit two-family detached residences as well as single-family attached and detached houses on smaller lot sizes. Note the distinction between "single family attached" dwellings, which are two houses side-by-side with a common party wall (permitted in R-B1),

and "two-family detached" dwellings, which are two residences (or, apartments) on two floors in the same building (permitted in R-B2). These slightly higher density areas are located immediately adjacent to the shopping on Broad St. and Shrewsbury Ave.

Category RD (Residential): The R-D districts permit garden apartments and townhouses, as well as the other various types of single family dwellings permitted in R-B2.

Category RD1- (Residential): This district, which is located along the western bank of the Navesink River, from Locust Ave. all the way around the bend in the river to Chapin Ave., is intended to open up the "sunset side" of town to the river by providing a variety of publicly-accessible open spaces that serve the community. All of the densities and uses of R-D are permitted with the additional requirement that, if garden apartments or townhouses are developed, a certain portion of the property must include a dedicated open space easement. Such green spaces can include active playgrounds for younger or older children, quiet parks for sitting, or river-edge walkways or docks.

stability over the past decade. Shifts in traffic volumes, where they have occurred, were generally directly associated with land developments such as The Galleria. While locally significant, these trips are quickly absorbed into the travel stream and do not represent a regionally significant increase in traffic volumes.

Traffic Constraints on a community system of streets and highways, most frequently occur at intersections. As a result, the capacity of street is largely defined by the capacity available at key intersections. Exceptions to this generality would consist of unique features which limit capacity, such as a narrow bridge or a railroad crossing. Even in these situations, however, the impact to capacity is created by the need to accommodate conflicting vehicle movements, resulting in interruptions in traffic flow.

The 1985 Master Plan for Red Bank identified a number of intersections which were deemed critical from a traffic circulation perspective. There were five:

- 1) Maple Avenue, Broad Street and Newman Springs Road
- 2) Shrewsbury Avenue and Newman Springs Road
- 3) Broad Street and East Front Street
- 4) Riverside Avenue, Rector Place, and Bridge Avenue (the Cooper's Bridge area)
- 5) Maple Avenue, Riverside Avenue, Pearl Street and Front Street (the one-way loop of Rte. 35)

Not surprisingly, this list consists of most of the locations in Red Bank where east-west arterial streets cross north-south arterial streets. At these locations, relatively high flows of traffic must cross each other, resulting in increased levels of traffic delay. In addition, relatively high volumes of turning

traffic flows between the crossing arterial streets, further complicating traffic operations. All of these critical intersections remain essential to the borough's traffic circulation system, and will continue to be critical in the future.

4. Parking

The parking requirements for the various land uses are uniform throughout town, but the means of providing those required spaces varies from use to use, and from location to location.

In the typical neighborhood residential areas, parking is simply in the driveway or the garage of the individual properties. In the higher density residential developments, and in the commercial/institutional areas, the parking is either on private lots, public lots, or multi-story garages. Some developments, such as The Galleria, the hotels, and the Hospital provide their own parking. Others, most notably the shops and businesses of the Broad St. area have shared public lots. These public lots are metered, while the on-street parking in that area is free.

The only parking garages in town now are located on Front St. and Riverside Ave.; one serves the hospital, and the others are located within the large apartment buildings facing the river. Future larger developments (especially along the river) will probably require the construction of additional parking structures.

Overnight parking is currently prohibited on all streets in town, in order to facilitate snow plowing and street cleaning.

the way to Red Bank is provided. The issue therefore for arriving traffic is the issue of providing a clearer and more welcoming gateway.

Therefore, because the traffic flow is not easily changed, a study should be undertaken that proposes an overall system of signage locations, designs, and guidelines for both public and private signs, and landscape improvements on both public and private properties, all of which will help considerably to give order and clarity to the confusion.

Shrewsbury Avenue is one of Red Bank's major north-south arterial streets. It is an important street both in terms of carrying through traffic, and in terms of serving this neighborhood pedestrian-oriented shopping district. These two functions can be compatible with each other provided that traffic flow on Shrewsbury Avenue is effectively managed. Traffic calming measures would help motorists understand that they are passing through a neighborhood which should be respected, which is a walkable place, and which includes school children along and across it.

Therefore, it is important to maintain the existing street trees and plant additional trees where gaps in the canopy exist. More on-street parking should be provided, crosswalks at intersections should be clearly marked, and pedestrian right-of-way laws should be vigorously enforced. The details of the street and sidewalks - the street lights and the many public and private signs - should also be studied: there is little relationship of the existing business signs to the pedestrian, and the small yellow street lights are of a color and dimness that creates a sense of darkness and does not make the night time walk pleasant.

Leighton Avenue is a relatively wide, residential collector street which runs parallel to Shrewsbury Avenue, and which serves the elementary school as well as the neighborhood. Residents along the street have complained about the volume and speed of traffic on the street, which results when drivers use it to avoid Shrewsbury Avenue and the traffic signal at Newman Springs Road. Our observations indicate that traffic calming measures on this street are needed to protect the quality of the residential neighborhood, but that the measures do not have to be extensive. The number of vehicles using the roadway is not high and while some may drive at high speeds, most vehicles appear to drive at speeds appropriate for a residential street.

One effective measure that has already been taken is the prohibition of through truck traffic; others that could be considered are a prohibition of left turns from Newman Springs Rd., even slower speed limits, and the prohibition of all through traffic. Obviously any measure must be studied carefully, and coordinated with NJDOT.

The East-west pedestrian streets of Front, Monmouth, and Chestnut Streets and Bergen Place need to be enhanced with cross walks, bike lanes, and street trees, and comfortable and attractive paving, as east-west pedestrian streets. In addition, if Oakland St. remains a through walk (see the discussion of the train underpass, above), it should be improved in the same way. Land development should be therefore be encouraged to enhance the pedestrian quality of their sidewalks, and all off-street parking should be located in rear or side lots.

Borough Office
Complete Streets Policy
September, 2018

1
1

I. PURPOSE

To create and implement a Complete Streets Policy in Red Bank through the planning, design, construction, maintenance and operation of new and retrofit transportation facilities within public rights of way, including projects processed or administered through the Borough's Capital Program.

II. DEFINITIONS

A Complete Street is defined as means to provide safe access for all users by designing and operating a comprehensive, integrated, connected multi-modal network of transportation options.

III. BACKGROUND

The benefits of Complete Streets are many and varied:

- Complete Streets improve safety for pedestrians, bicyclists, children, older citizens, non-drivers and the mobility challenged as well as those that cannot afford a car or choose to live car free.
- Provide connections to bicycling and walking trip generators such as employment, education, residential, recreation, retail centers and public facilities.
- Promote healthy lifestyles.
- Create more livable communities.
- Reduce traffic congestion and reliance on carbon fuels thereby reducing greenhouse gas emissions.
- Complete Streets make fiscal sense by incorporating sidewalks, bike lanes, safe crossings and transit amenities into the initial design of a project, thus sparing the expense of retrofits later.

IV. POLICY

The Borough of Red Bank shall implement a Complete Streets policy through the planning, design, construction, maintenance and operation of new and retrofit transportation facilities, enabling safe access and mobility of pedestrians, bicyclists, transit users of all ages and abilities. This includes all projects funded through the Borough's Capital Program. The Borough of Red Bank encourages the adoption of similar policies by the County and State when they are funding or undertaking the retrofit or construction of transportation facilities within Red Bank. The specific provisions of Red Bank's Complete Streets Policy are to:

1. Create a comprehensive, integrated, connected multi-modal network by providing connections to bicycling and walking trip generators such as employment, education, residential, recreational and public facilities, as well as retail and transit centers.
2. Provide safe and accessible accommodations for existing and future pedestrian, bicycle and transit facilities.
3. Establish a checklist of pedestrian, bicycle and transit accommodations such as accessible sidewalks curb ramps, crosswalks, countdown pedestrian signals, signs, median refuges, curb extensions, pedestrian scale lighting, bike lanes, shoulders and bus shelters with the presumption that they shall be included in each project unless supporting documentation against inclusion is provided and found to be justifiable.
4. Establish a procedure to evaluate resurfacing projects for complete streets inclusion according to length of project, local support, environmental constraints, right-of-way limitations, funding resources and bicycle and/or pedestrian compatibility.
5. Anticipate likely future demand for bicycling and walking facilities and plan for the provision of such future facilities.
6. Address the need for bicyclists and pedestrians to cross corridors as well as travel along them. Even where bicyclists and pedestrians may not commonly use a particular travel corridor that is being improved or constructed, they will likely need to be able to cross that corridor safely and conveniently. Therefore, the design of intersections, interchanges and bridges shall accommodate bicyclists and pedestrians in a manner that is safe, accessible and convenient.
7. Design bicycle and pedestrian facilities to the best currently available standards and practices including the New Jersey Roadway Design Manual, the AASHTO Guide for the Development of Bicycle Facilities, AASHTO's Guide for the Planning, Design and Operation of Pedestrian Facilities, the Manual of Uniform Traffic Control Devices and others as related.
8. Stay abreast of and support new technologies in improving safety and mobility.
9. Make provisions for pedestrians and bicyclists when closing roads, bridges or sidewalks for construction projects as outlined in NJDOT Policy #705 – Accommodating Pedestrian and Bicycle Traffic During Construction.

10. Consider connections for Safe Routes to Schools, Safe Routes to Transit, Transit Villages, trail crossings and areas or population groups with limited transportation options.
11. Complement the context of the surrounding community.
12. Comply with the most recent accessibility and ADA requirements.

V. IMPLEMENTATION

To implement this Complete Streets Policy, the Borough shall:

1. Distribute to all Department Heads a copy of this Complete Streets Policy upon adoption.
2. Make available complete streets training material to the appropriate department heads and members of the Planning Board, Zoning Board, Environmental Commission and Historic Preservation Commission.
3. Establish Performance Measures to gauge success.
4. Update the Borough's Design Standards for to provide guidance for private developers to follow when private development affects elements of a complete street, such as sidewalks, crosswalks, handicapped ramps, street furniture, street lighting, street landscaping and roadway surfaces.
5. Ensure all initial planning and design studies of complete street infrastructure projects shall consider opportunities to improve public health.

VI. EXEMPTIONS

Exemptions to the Complete Streets policy can be made by the Borough Business Administrator with supporting data that indicates one of the following reasons for the exemption:

- 1) Non-motorized users are prohibited on the roadway.
- 2) Scarcity of population, travel and attractors, both existing and future, indicate an absence of need for such accommodations.
- 3) Detrimental environmental or social impacts outweigh the need for these accommodations.
- 4) Cost of accommodations is excessively disproportionate to cost of project, more than twenty percent (20%) of total cost.
- 5) The safety or timing of a project is compromised by the inclusion of Complete Streets.

An exemption other than those listed above must be documented with supporting data and approved by the Borough's governing body.

RED BANK












BICYCLE / PEDESTRIAN PLANNING PROJECT

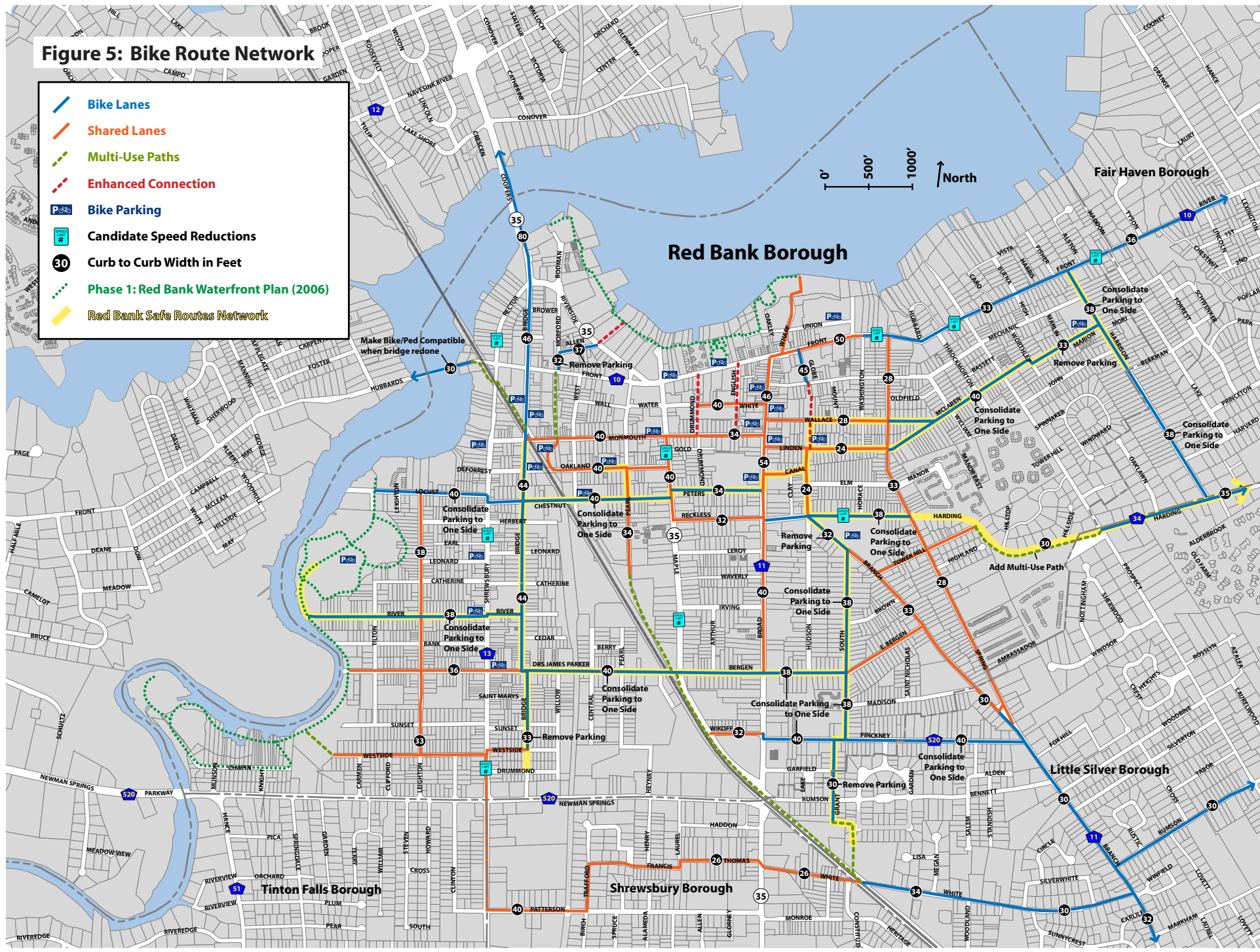
Prepared for:
The Borough of Red Bank &
The New Jersey Department of Transportation

December 2010



Figure 5: Bike Route Network

-  **Bike Lanes**
-  **Shared Lanes**
-  **Multi-Use Paths**
-  **Enhanced Connection**
-  **Bike Parking**
-  **Candidate Speed Reductions**
-  **Curb to Curb Width in Feet**
-  **Phase 1: Red Bank Waterfront Plan (2006)**
-  **Red Bank Safe Routes Network**



Pedestrian Network Plan

To develop the pedestrian network plan, the Borough was divided into nine sub-areas for more detailed study (**Fig 8: Area Concept Plans**). The Pedestrian Network Plan includes improvements to signalized and unsignalized intersections, and roadway improvements. Where applicable, bicycle elements developed in the Bicycle Route Network are also shown in the sub-area plans.

The sub-area plans are guided by a consistent policy to some common elements, particularly with respect to signalized and unsignalized intersections. All signalized intersections should uniformly provide marked crosswalks, ADA-compatible curb ramps, pedestrian push buttons, and pedestrian countdown signal heads. Several measures should be used to enhance pedestrian visibility and improve safety at all unsignalized crossings, ranging from high-visibility crosswalk striping and signage, to higher-level treatments such as textured crosswalks, curb extensions, median refuge islands, in-road lighting, overhead lighting, High Intensity Activated Crosswalks (HAWKs) and Rectangular Rapid Flashing Beacons (RRFBs). In general, crossings along high speed, high volume roads would benefit from a higher level of treatment that offers additional protections for bicyclists and pedestrians crossing the roadway. Future engineering studies for unsignalized crossings should specify treatments at each location.

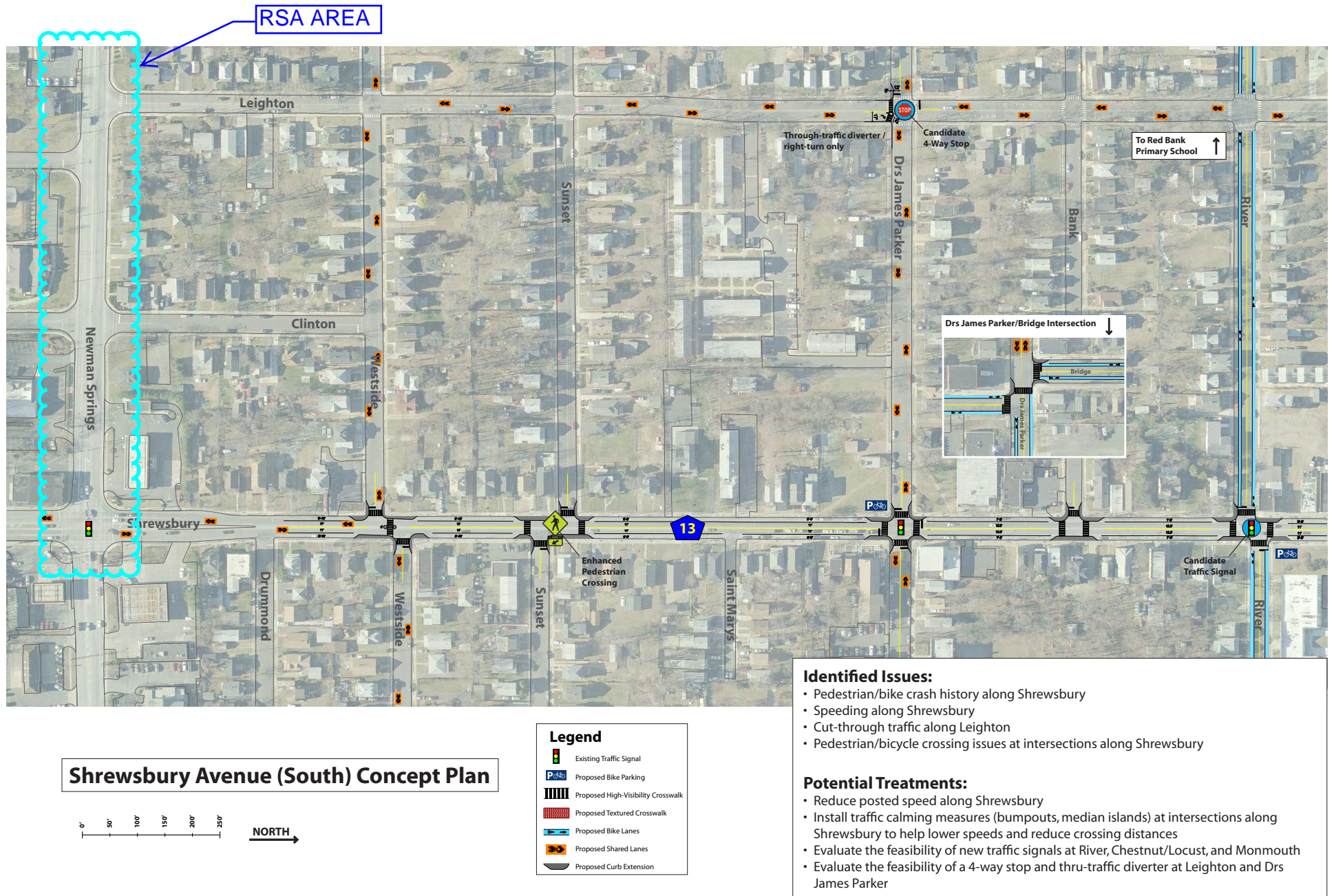
Recommendations were developed for each sub-area based on analysis of existing conditions and crash statistics, guidance from the Steering Committee, and public input. Issues to be addressed and recommendations for each sub-area are summarized below.

Shrewsbury Avenue North and South Concept Plans (Figs 9 and 10)

Shrewsbury Avenue has a history of pedestrian and bicycle crashes, and speeding and crossing difficulties were identified as issues during field observations and in public comment. Several treatments are proposed to calm traffic and increase pedestrian mobility and safety:

- Shrewsbury Avenue has only two traffic signals along its entire length. Three additional candidate traffic signals are proposed at River, Chestnut/Locust and Monmouth
- Curb extensions are proposed at several intersections to reduce crossing distances. Candidate intersections for curb extensions are River, Catherine, Leonard, Herbert, Chestnut, Locust, Oakland/De Forrest, and Monmouth
- High-visibility crosswalks should be constructed at all intersections
- Reducing the posted speed along Shrewsbury should be investigated
- Bike lanes are proposed on Locust and Chestnut to facilitate east-west travel. Consolidating on-street parking to the north side should be investigated.
- Cut-through traffic on Leighton was mentioned as an issue along this portion of Shrewsbury Avenue. The feasibility of a new 4-way stop and thru-traffic diverter at Leighton and Drs James Parker should be explored as traffic calming measure.

Figure 9: Shrewsbury Avenue (South) Concept Plan



APPENDIX K

ROAD OWNER RESPONSE

The Board of Chosen Freeholders of the County of Monmouth

DEPARTMENT OF PUBLIC WORKS & ENGINEERING

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November 25, 2020

Julia Steponanko, PE, Project Manager,
Greenman-Pederson Inc (GPI)
100 Corporate Drive
Lebanon, NJ 08833

Re: Monmouth County response to Road Safety Audit
CR 520 (Newman Springs Road), between Swimming
River and CR 13 (Shrewsbury Ave)
Red Bank and Tinton Falls Boroughs, Monmouth County

Dear Ms. Steponanko,

Monmouth County is committed to improving safety and implementing appropriate elements of our Complete Streets policy along all county roadways to better serve the traveling public.

Monmouth County thanks the Road Safety Audit team for their participation in this significant effort to evaluate traffic safety along CR 520 (Newman Springs Road) between Swimming River and CR 13 (Shrewsbury Ave) in the Boroughs of Red Bank and Tinton Falls, and for your assistance with recommendations that will accommodate all road users within the corridor.

The County has reviewed the recommendations outlined in the report of Road Safety Audit (RSA) the dated October 2020, and provides its concurrence for the short term and long term improvements, as well as the need for further investigations identified by the team to improve roadway safety along the above reference portion of the CR 520 corridor. However, as you are aware, implementation of specific improvements will require further analysis and/or design, municipal support, and funding.

These improvements primarily include corridor-wide and site-specific recommendations related to the following:

- Conversion of 3-lane section (Road Diet), or conversion to 5-lane section. Both recommendations provide a much needed left turn lane. However impacts to traffic flow (Level of Service) and property/ right of way impacts require further investigation.
- Corridor-wide upgrade of all ramps for ADA compliance
- Corridor wide signal upgrades including backplates with retroreflective borders, evaluation of signal timing and clearance intervals, ADA compliance, etc.

- Analysis of roadway and pedestrian lighting
- Investigate full reconstruction of the intersection of CR520 and CR 51 (Hance Ave) and Munson Pl to create an offset intersection with a left turn lane from CR 520 EB to Munson Pl.
- Investigate adding a pedestrian signal (HAWK or RRFB) at Springdale Avenue, Clifton Pl, Leighton Ave
- Investigate turn restrictions, one-way operations, or traffic calming along local roads to reduce cut-through traffic and turning movements at the CR 520 intersections.
- Review of all signage for compliance with standards, (including retroreflectivity, size, placement, and sign posts)
- Construction and/or maintenance of sidewalks
- Inspect and address drainage facilities for obstructions and install bicycle safe grates
- Inspect and trim foliage/vegetation within the right of way for sign, traffic signal, and sidewalk obstructions

Based on recommendations of the RSA team, as a next step, the County would explore funding alternatives for the design and implementation of these improvements. In the meantime, the County does plan to implement short term spot improvements involving signing and striping along the corridor as part of its regular maintenance efforts along County routes.

Should you have any questions or concerns regarding the above, please do not hesitate to contact this office at (732) 431 7760.

Sincerely



Joseph M. Ettore, P.E.
County Engineer

cc:

Christine Mittman, NJTPA

John Tobia, Director, Department of Public Works and Engineering

Raymond Bragg, Assistant County Engineer

Debra Compton, Manager of Engineering Operations

Vincent Cardone, Principal Engineer II, Traffic Design