

ROUTE 6 SAFETY STUDY: RAMP AND SHOULDER DESIGN

FINAL REPORT
JUNE 2019



CAPE COD
COMMISSION

CAPE COD COMMISSION PROJECT TEAM

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PROJECT FUNDING

This project was funded by the Massachusetts Department of Transportation and the Federal Highway Administration under the Federal Unified Planning Work Program.

The information depicted on the maps and figures in this report are for planning purposes only. They are not adequate for legal boundary definition, regulatory interpretation, or parcel level analysis. They should not substitute for actual on-site survey, or supersede deed research. Unless otherwise noted, the source for road and crash data and information for maps and figures in this report is the Massachusetts Department of Transportation (MassDOT) (2018) and Cape Cod Commission planimetric data (2014), and aerial imagery is from the Cape Cod Commission.



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EXECUTIVE SUMMARY

The purpose of this study is to identify areas of opportunity to improve safety along Route 6. The study focuses on the analysis of impacts of acceleration and deceleration lane design standards and paved shoulders. This study includes an existing conditions analysis of Route 6, including paved and unpaved shoulders, acceleration and deceleration lengths, crash history and environmental features. The study identifies areas for improvements to shoulders and ramp lengths that could coincide with a

Massachusetts Department of Transportation (MassDOT) repaving project or standalone safety project. Cape Cod Commission staff hosted three public meetings to gather public and stakeholder feedback about potential improvements to Route 6. A summary of the meetings and comments received will be outlined in the report. Before any potential projects move forward, additional public outreach would need to be conducted by MassDOT.

Recommended improvements outlined in the study include:

1. Conduct additional outreach if any potential projects are to move forward
2. Extend acceleration and deceleration lane lengths where feasible as part of any planned repaving project
3. Consider targeted safety project(s) to extend acceleration and deceleration lane lengths at high priority locations: Exit 2, Exit 3, Exit 4, Exit 5 (on ramps), Exit

10, Exit 11
4. With additional public outreach, consider adding paved shoulders as part of any planned repaving projects

- i. Higher Priority Locations:
Sagamore Bridge-Exit 6 eastbound, Sagamore Bridge-Exit 6 westbound, Exit 6-Exit 9 westbound
- ii. Lower Priority Locations: Exit 9-Orleans Rotary eastbound, Exit 9-Orleans Rotary westbound

INTRODUCTION

Route 6 is the most travelled roadway on Cape Cod, seeing upward of 60,000 vehicles in some sections during a typical summer day. Route 6 connects Bourne and Provincetown, with the limited access portion of the roadway ending in Orleans at the rotary. Route 6 experiences times of significant congestion, particularly during bridge maintenance and during peak travel times approaching the Bourne Bridge and at the lane drop in Dennis.

In 2013, Cape Cod Commission staff conducted a study on Route 6 hydroplaning related crashes. The study produced a report with preferred alternatives. Some notable roadway alternatives included an expanded shoulder to provide facilitating stormwater conveyance. This alternative would improve stormwater as well as safety, but concerns over topography, clearing, and community character remain prevalent. Another large improvement to stormwater management

on Route 6 that the hydroplaning study recommended was the removal of curbing and berming along the edge of pavement. The existing curbs and berms prevent water from running off the highway away from the travel lanes. Other alternatives included providing adequate pavement cross slope and utilizing alternative pavement surface textures.

STUDY AREA

As shown in the map on the following page, the study area is approximately 36 miles from the Sagamore Bridge to the Orleans Rotary. The study area consists of the limited access portion of Route 6, which is located in 8 towns: (from west to east) Bourne, Sandwich, Barnstable, Yarmouth, Dennis, Harwich, Brewster, and Orleans.



FIGURE 1. ROUTE 6 EASTBOUND IN SANDWICH



FIGURE 2. ROUTE 6 EASTBOUND IN HARWICH

FIGURE 3. STUDY AREA (THICK WHITE LINE)



CHARACTERIZATION OF ROUTE 6 EXISTING CONDITIONS

The current configuration of Route 6, also referred to as the Mid-Cape Highway, from the Sagamore Bridge to the Orleans Rotary was constructed over a 20-year period starting in 1950. The road segment from the Sagamore Bridge to Exit 6 (Hyannis) was constructed in 1950 and expanded to four lanes in 1954. Additional segments from Exit 6 to the Orleans Rotary were constructed during the period between 1955 and 1971 (CCC, 2013). Improvements have been made at select sections of the roadway, such as resurfacing every 15 to 20 years, new exit ramp configurations, addition of rest areas, stormwater improvements, etc. However, the basic configuration of the roadway, including cuts and fills, slopes, road profile and geometry, were designed and constructed based on engineering and design criteria from 60 years ago.

For the purpose of shoulder analysis in this study, the highway was divided into three segments, the Sagamore Bridge to Exit 6, Exit 6 to Exit 9, and Exit 9 to the Orleans Rotary. The analysis of acceleration and deceleration lanes on Route 6 were examined individually. Traffic volumes are summarized in the Appendix.

EXISTING CONDITIONS - RAMPS

Ramp Lengths

Route 6 consists of twelve interchanges between the Sagamore Bridge and the Orleans Rotary, each with various acceleration and deceleration lane dimensions, traffic volumes, and constraints. An analysis of the existing acceleration and deceleration lengths was performed in accordance to the American Association of State Highway and Transportation Officials (AASHTO) guidelines. For the exits on the 4-lane section of Route 6 it was determined the recommended acceleration lane length should be 1,020 feet while on the 2-lane section the recommended acceleration length should be 780 feet. The speed of the highway, as well as the speed of the ramps, contribute to these lengths.

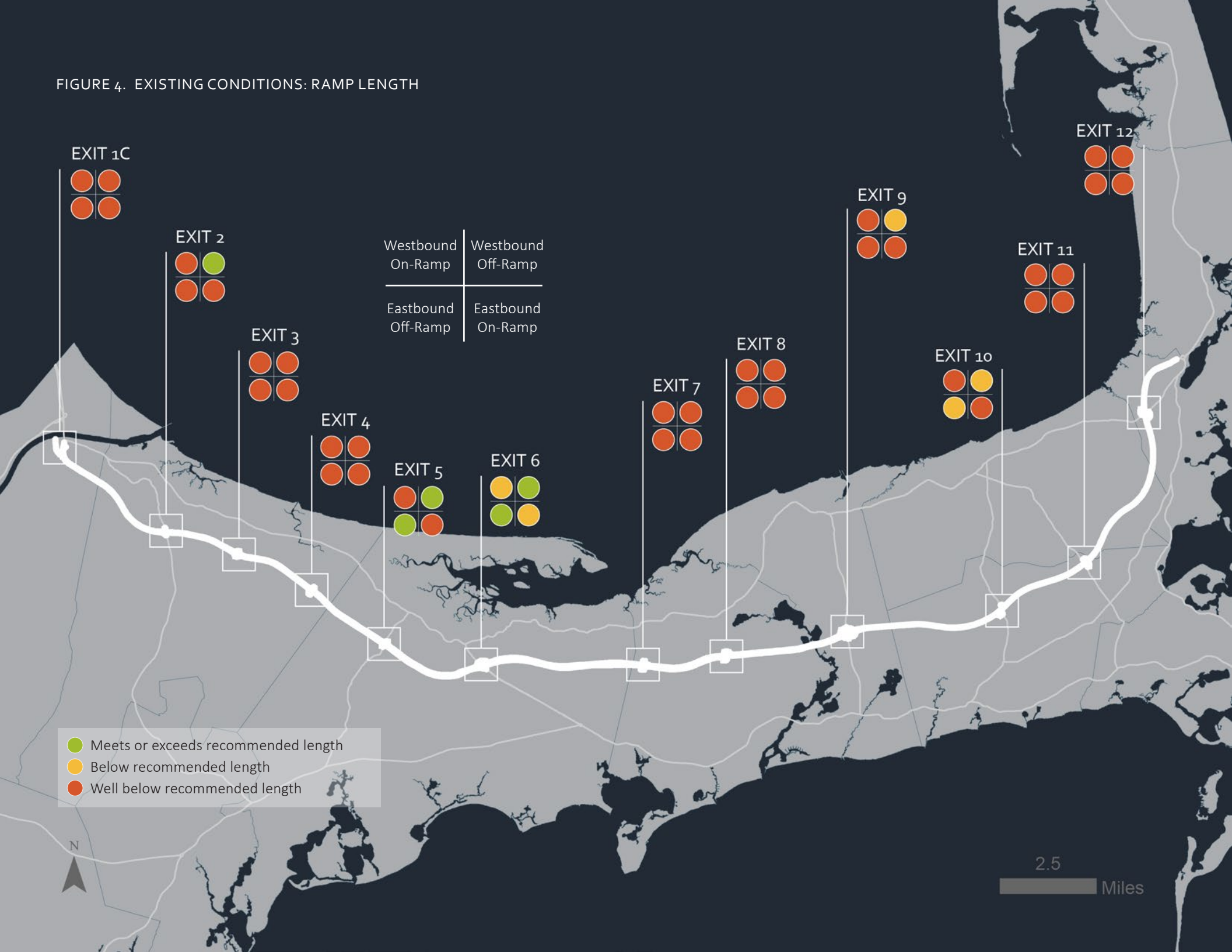
Based on the AASHTO standards, it is determined that deceleration lane lengths should be 460 feet for both the 4-lane and the 2-lane sections of Route 6¹. The length is determined by the speeds of both the highway and the ramp.

Using the AASHTO guideline standards for both acceleration and deceleration lanes, an analysis of the existing ramp lengths was completed. No survey data was available; all measurements were performed at a planning level. The existing ramps lengths were divided into categories; meets or exceeds recommended length, below recommended length, and well below recommended length.

The graphic on the following page displays this categorization for each of the on-ramps and off-ramps. Additional information on these characterizations can be found in the Appendix.

¹ AASHTO – A Policy on Geometric Design of Highways and Streets (2004 Greenbook)

FIGURE 4. EXISTING CONDITIONS: RAMP LENGTH



RAMP ASSOCIATED CRASHES

A crash analysis was performed at all twelve interchanges to better understand the number and severity of crashes. The analysis utilized the most recent three years of crash data available from the Registry of Motor Vehicles, 2014-2016. The crashes analyzed for this portion of the study were all attributed to either accelerating onto Route 6, decelerating, or merging at the interchanges. Crashes outside the interchange area were excluded for this analysis.

There were 458 reported crashes from 2014-2016 related to Route 6 acceleration and deceleration lanes at interchanges, with 129 resulting in an injury, and 2 resulting in a fatality. The exit with the highest number of crashes was Exit 10 in Harwich with 56 reported crashes and 19 injury related crashes.²

The graphic on the following page displays the crashes associated with Route 6 acceleration and deceleration lanes. Additional crash information can be found in the Appendix.

² Registry of Motor Vehicles

RAMP CONFIGURATION

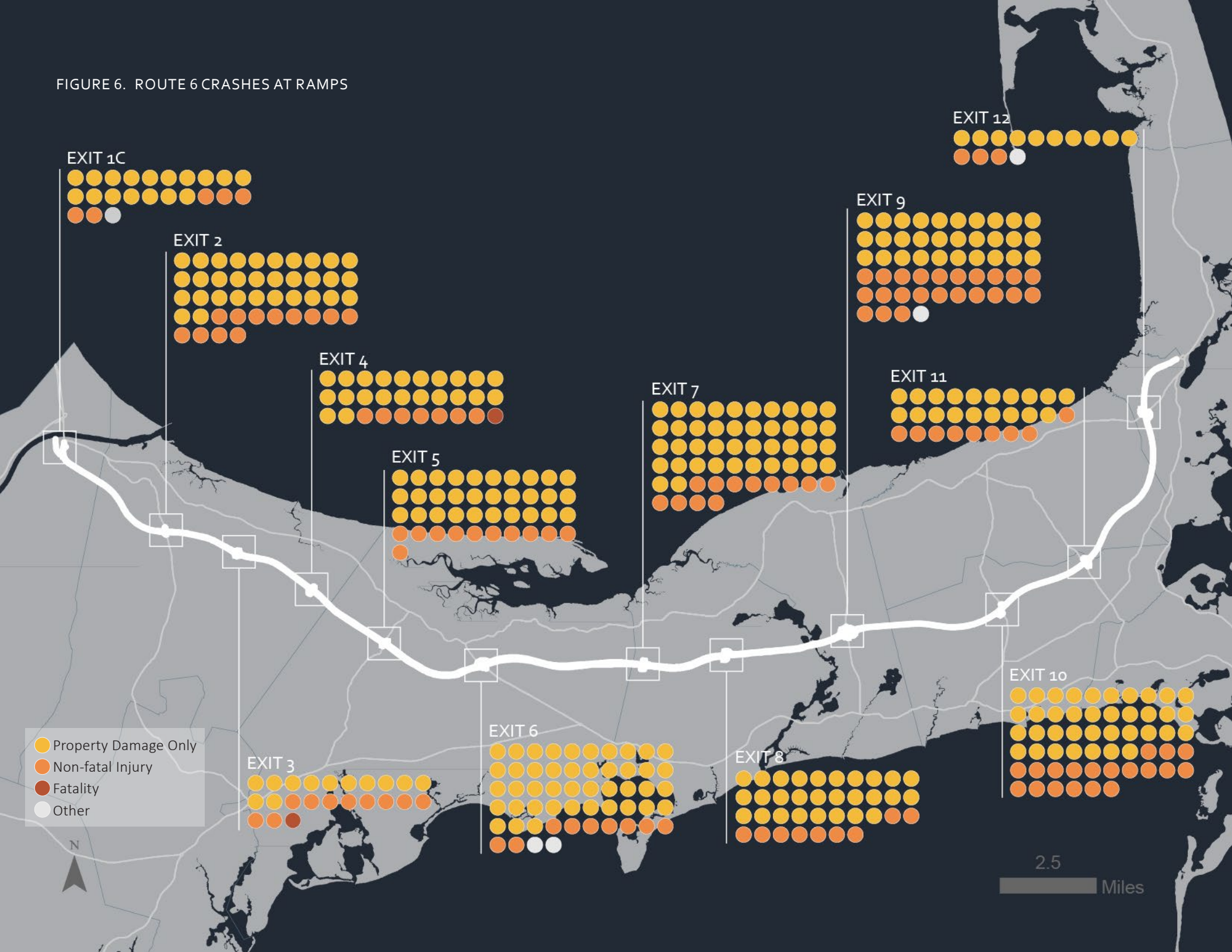
Eleven of the twelve Route 6 interchanges feature one eastbound entrance, one westbound entrance, one eastbound exit, and one westbound exit. The exception is Exit 9 in Dennis, which features two entrances eastbound, two entrances westbound, two exits eastbound and two exits westbound. The aerial images in Figure 5 depict these differences.

Exit 9 is known as a cloverleaf interchange, which is best described as a two-level interchange that allows two different entrance and exit points in either direction at the interchange. Exit 4 is known as a partial cloverleaf interchange, and the key difference is it allows only one entrance and exit point in each direction.



FIGURE 5. EXAMPLE RAMP CONFIGURATION

FIGURE 6. ROUTE 6 CRASHES AT RAMPS



EXISTING CONDITIONS - SHOULDERS

Sagamore Bridge to Exit 6

This section of Route 6 was originally constructed as a two-lane roadway in 1950 and was later expanded to four lanes in 1954. The state-owned Right-of-Way (ROW) is approximately 200 feet wide from the Bridge to Exit 2, where it widens to 400 – 500 feet. This section of roadway has a paved surface that is only inches wider than the marked travel lanes; the pavement edge is finished with a paved berm. The shoulder is graded with occasional guard rails that narrow the graded shoulder. The central median is mostly natural, with occasional graded areas. The median along this stretch of the roadway from the bridge to Exit 2 is approximately 30 feet wide; traveling eastwards from Exit 2 it widens to 45 – 60 feet. The posted speed limit is 55 mph. Figure 7 shows the typical cross-section for this segment of Route 6. All cross-sections are looking *westbound* in this report.



Exit 6 to Exit 9

This section of Route 6 was originally constructed as a two-lane roadway in 1955 and was later expanded to four lanes in 1967 and 1971. The state-owned ROW is approximately 400- 500 feet wide from Exit 6 to Exit 9. The eastbound section of this roadway has an approximately 12-foot-wide paved shoulder on the right-hand side of the roadway; there is no shoulder on the left. Neither side of the road has paved berms in this section of roadway. The shoulder is graded with occasional guard rails that narrow the graded shoulder. The central median is mostly natural, with occasional graded areas. The median along this stretch of the roadway from Exit 6 is approximately 70 feet wide. This section of roadway appears to have country drainage, with both the right and left edges of pavement are graded to drain away from the road surface. Partway between Exits 6 and 7 eastbound portions of curbing are present on the right-hand side of the edge of pavement. Paved outflow channels on either side of the pavement are located frequently between Exits 6 and 7 in addition to the occasional storm drain. From Exit 7 eastwards the edge of pavement is finished with a paved berm, more catch basins are installed at the edge of pavement, and few if any paved outflows

occur. The posted speed limit is 55 mph. Figure 8 shows the typical cross-section for this segment of Route 6.

Exit 9 to Orleans Rotary

This two-lane section of roadway was constructed from 1956 to 1958. The state-owned ROW is approximately 300 feet wide. This section of Route 6 does not have paved shoulders, and the graded shoulder typically slopes up from the road edge, including in road sections where the surrounding terrain is lower than the paved road. The road edge has paved berms in places. The two lanes are divided by a continuous raised paved berm and flexible posts. Storm drains are located frequently along the paved edge of the road. The posted speed limit is 50 mph. Figure 9 shows the typical cross-section for this segment of Route 6.



FIGURE 7. TYPICAL CROSS-SECTION FROM SAGAMORE BRIDGE TO EXIT 6



FIGURE 8. TYPICAL CROSS-SECTION FROM EXIT 6 TO EXIT 9

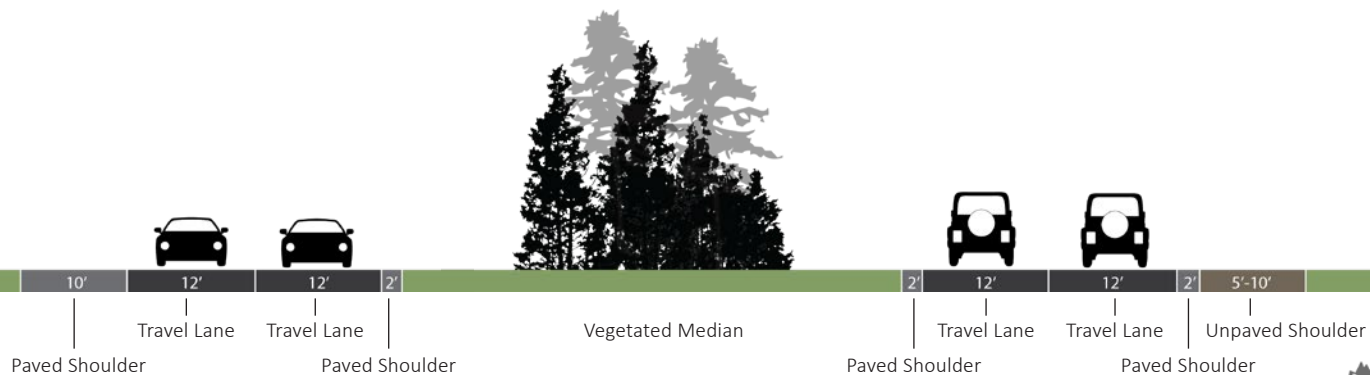
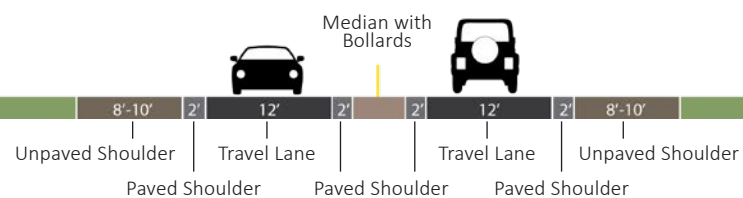


FIGURE 9. TYPICAL CROSS-SECTION FROM EXIT 9-ORLEANS ROTARY



POTENTIAL SOLUTIONS

POTENTIAL SOLUTIONS – RAMPS

Addressing the issues with acceleration and deceleration lane lengths can be as simple as restriping the existing lines on Route 6 ramps, while in other locations it requires the addition of new pavement. As previously stated, the recommended length for acceleration lanes along the 4-lane section of Route 6 is 1,020 feet while the 2-lane section should be 780 feet. The recommended length for deceleration lanes along Route 6 is 460 feet.

Commission staff conducted a Geographic Information System (GIS) analysis of the anticipated pavement increases required to standardize the Route 6 acceleration and deceleration lanes. The analysis separated the additional pavement requirements

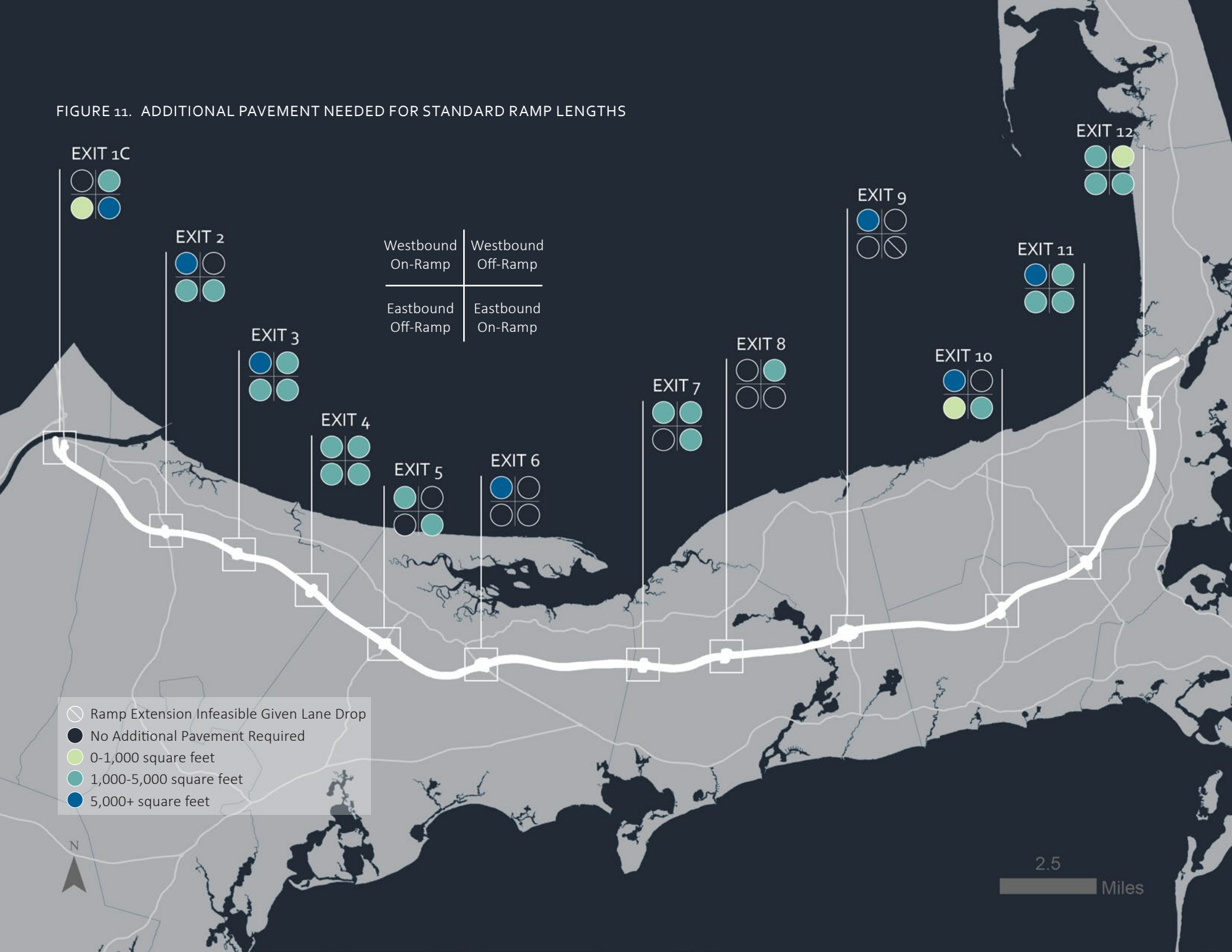
into separate categories including; 0-1,000 square feet (sf), 1,000-5,000 sf, 5,000+ sf, no additional pavement, and infeasible. The only ramp deemed infeasible was the Exit 9 eastbound on-ramp as it leads right into the lane drop and extension of the acceleration lane would only impair the safety of the ramp and lane drop further. It was also noted that the highest number of square feet of additional pavement required to standardize any one ramp was approximately 7,349 sf at the Exit 9 westbound on-ramp. Figure 11 displays approximate square feet of new pavement required at each ramp location to bring it up to design standards. The approximate square feet of new pavement required at each ramp location is found in the Appendix.

It is noted that Exits 2, 5, and 6 have some ramps that are currently up to standards; these locations are noted on the additional pavement graphic.

An example of the recommended improvements is shown in Figure 10. The example shows the improvements to the eastbound deceleration lane and the westbound acceleration lane at Exit 2 in Sandwich. The yellow polygons shown on the map is the area that would require additional pavement to standardize the ramps. The westbound acceleration lane is one of the larger amounts of additional pavement required at approximately 6,400 sf.



FIGURE 11. ADDITIONAL PAVEMENT NEEDED FOR STANDARD RAMP LENGTHS



POTENTIAL SOLUTIONS – SHOULDER

The addition of paved shoulders along Route 6 has numerous safety benefits. Paved shoulders would allow disabled vehicles a safer option than the existing unpaved shoulders to pull over and safely get off the highway. Paved shoulders would also allow for a vehicle to safely get off the highway if an incident were to occur in front of them, thus reducing the number of crashes and the number of vehicles involved in crashes. A paved shoulder would allow for safer areas for vehicles to pull over for passing emergency vehicles, especially in the 2-lane section from Exit 9 to the Orleans Rotary. An analysis was conducted using the crashes that occurred outside of the acceleration

and deceleration lane areas of Route 6 and it was noted at the addition of paved shoulders is expected to reduce the number of crashes in areas without paved shoulders by 13%.³ Figure 12 shows the existing crash totals as well as the estimated totals if paved shoulders were to be implemented by segment. The crash data is from 2014-2016.

Other notable benefits of paved shoulders include snow removal and stormwater management. Route 6 currently experiences a flooding problem in various locations from the Sagamore Bridge to the Orleans Rotary, and the addition of paved shoulders would decrease the amount of flooding

occurring within travel lanes. However, relocating or even updating existing drainage systems along Route 6 would be a costly improvement.

Concerns over the amount of clearing required to accommodate paved shoulders has been expressed during the outreach process for this study. Little to no clearing at all would be required to implement 10-foot paved shoulders along Route 6. The paved shoulders would be located in what is currently known as a “clear zone” and this area has already been cleared in the past. Further analysis, including surveys, would be conducted if a project were to be proposed by MassDOT. Another express concern was changes to the character of the roadway. The stretch of eastbound roadway from Exit 6-Exit 9 currently has a paved shoulder and an identical treatment is what is recommended for the rest of Route 6. The cross-sections in Figures 13-14 show the proposed treatments for each section of Route 6.

FIGURE 12. IMPACTS OF ADDING PAVED SHOULDER

Segment	Existing Crashes	Percent Reduction	Estimated Crashes
Canal to Exit 6	195	13%	169
Exit 6 to Exit 9	72	5%	67
Exit 9 to Orleans Rotary	82	13%	70

³ HSM Rural Multilane Roads (Divided and Undivided) worksheet

FIGURE 13. PROPOSED CROSS-SECTION FOR ROUTE 6 FROM THE SAGAMORE BRIDGE TO EXIT 9

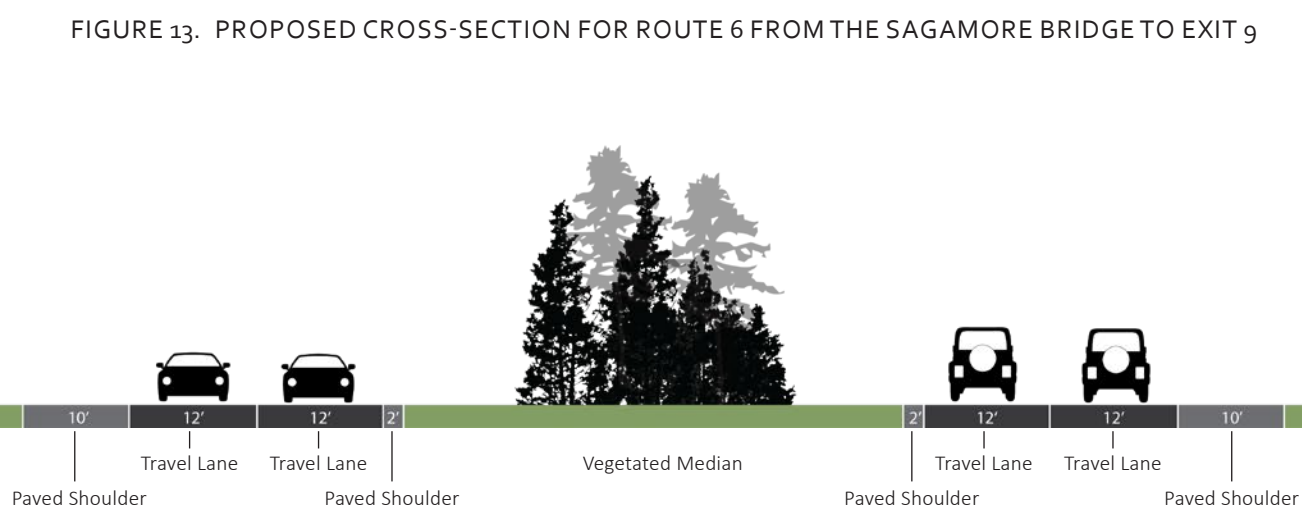
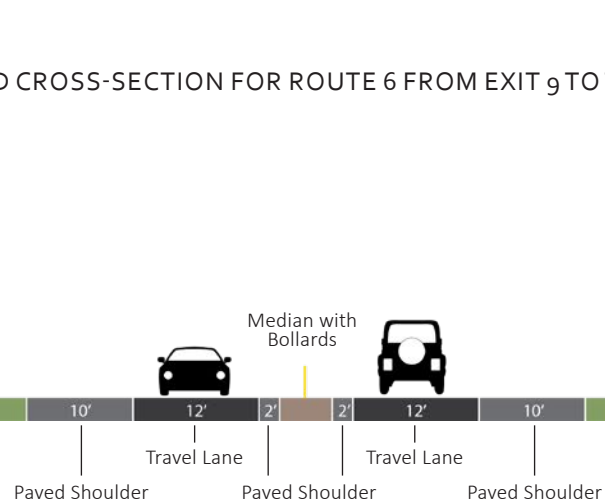


FIGURE 14. PROPOSED CROSS-SECTION FOR ROUTE 6 FROM EXIT 9 TO THE ORLEANS ROTARY



PUBLIC OUTREACH

Cape Cod Commission transportation staff hosted two public meetings to go over the existing conditions, proposed improvements, and potential impacts for Route 6 ramps and shoulders. The first meeting was held at Harwich Town Hall on Wednesday, December 19, 2018 at 11:00 AM. Strong support for increased safety measures along Route 6 including increased acceleration and deceleration lanes (especially at Exits 10 and 11) was identified, from both town staff (Harwich) and public residents. There was general support for shoulder improvements as well with questions about the amount of clearing that would be required.



FIGURE 15. PUBLIC COMMENTING ON ROUTE 6 SAFETY PRESENTATION IN HARWICH

A second meeting was held the following evening on Thursday, December 20, 2018 at 5:00 PM at the Cape Cod Commission office in Barnstable. There was strong support for safety improvements along Route 6 at this meeting as well. Ramp improvements as well as paved shoulders both received strong support at this meeting. A detailed list of all comments received at both meetings, as well as those sent via email, are recorded in the Appendix.



FIGURE 16. STEVEN TUPPER, CAPE COD COMMISSION TRANSPORTATION PROGRAM MANAGER, PRESENTING IN HARWICH

Previously, there was a presentation of the project at the October 12, 2018 Cape Cod Joint Transportation Committee (CCJTC) meeting to discuss the project at that point.

RECOMMENDATIONS AND NEXT STEPS

RECOMMENDATIONS

Based on analysis and public feedback, the Cape Cod Commission has assembled a list of recommendations for MassDOT to consider for future improvements.

1. Conduct additional outreach if any potential projects are to move forward
2. Extend acceleration and deceleration lane lengths where feasible as part of any planned repaving project
3. Consider targeted safety project(s) to extend acceleration and deceleration lane lengths at high priority locations: Exit 2, Exit 3, Exit 4, Exit 5 (on ramps), Exit 10, Exit 11

4. With additional public outreach, consider adding paved shoulders as part of any planned repaving projects

- i. Higher Priority Locations: Sagamore Bridge-Exit 6 eastbound, Sagamore Bridge-Exit 6 westbound, Exit 6-Exit 9 westbound
- ii. Lower Priority Locations: Exit 9-Orleans Rotary eastbound, Exit 9-Orleans Rotary westbound

NEXT STEPS

Cape Cod Commission staff will continue to work with MassDOT to improve safety on Route 6 through planned repaving projects and dedicated safety projects. Should any projects be advanced by MassDOT, additional public outreach should be coordinated throughout the engineering design process.



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APPENDIX

PUBLIC COMMENTS

- Adding paved shoulders and increasing ramp lengths would improve safety
 - Paved shoulders would improve drainage along Route 6
 - Accelerating at Exit 10 requires access acceleration from a stationary position
 - Route 6 shoulders need improved drainage design – Route 495 off Cape is a great design
 - Guardrail in the middle of Route 6 instead of rumble strips and posts would be safer
 - Paved shoulders would be beneficial for emergency vehicles
 - RMV needs to be involved with education of drivers; merging is a large issue
 - Traffic backing up onto Route 6 (Exit 8 and 10 specifically mentioned) is an issue
 - Extend number of lanes to Orleans Rotary
 - Exit 9 – four ramps make more conflict, more crashes – higher volumes a problem as well
 - Any potential projects should work in conjunction with MassDOT and Army Corps bridge designs/projects
 - Yield signs should all be on the left
 - Improve the on/off ramps along Route 6 – no priority, all need to be fixed
 - Town of Harwich recognizes an issue with the Route 6 WB ramp at Exit 10
 - Speeding, tailgating, yielding, using turn signals, and cell phone usage are all concerns, and more enforcement needs to be done
-

- Extend the ramp lengths along Route 6; paved shoulders would encourage/allow people to pull over for emergency vehicles
 - Include individual comments in a report to MassDOT
 - Safety is a big concern, but so is cost
 - Shoulders are a greater priority than ramps
 - Increasing acceleration lanes at all ramps is a good idea – priority ramps include Exit 5, Exit 6, and Exit 2
 - Remove Exit 1C or add a stop signal
 - Two-lane section – concern over paving shoulders – drainage implications
 - Concern with ramp traffic cutting off mainline (not yielding) – particularly Exit 10
 - Center markers have made a great improvement at night
 - Fear using Exit 2 – hardly any deceleration lane and fast-moving traffic down the hill
 - Added acceleration lanes will help with gridlock at Exits 11 & 12
 - Paved shoulders might aid rescue vehicles, but concern over motorists using this area to pass slower vehicles
 - Best solution is a double barrel from Exit 9-Exit 12
 - Look at summer vs. year-round traffic
 - More lanes on the canal bridges
 - Longer merge lanes for entrances and exits would be a huge benefit, especially for safety
 - Please pursue these improvements
 - Paved shoulders are a good idea in all areas of Route 6
 - Add two additional lanes from Exit 9 to the Orleans Rotary
 - There are safety issues at the lane drop
 - Concern over adding any more pavement along Route 6
 - If drivers understood what “yield” means, no changes would be needed on any road
 - Partnership with DOT in installation of signage similar to the “Use Yah Blinkah” campaign
 - Concrete barrier from Exit 9 to Orleans Rotary would increase safety
-

ADDITIONAL PAVEMENT NEEDED FOR STANDARD RAMP LENGTHS

Exit	EB ON	WB ON	EB OFF	WB OFF
Exit 1C	5,266 sf	0 sf	437 sf	2,477 sf
Exit 2	2,046 sf	6,376 sf	3,102 sf	N/A
Exit 3	3,575 sf	5,114 sf	2,907 sf	4,537 sf
Exit 4	3,192 sf	3,448 sf	3,300 sf	3,408 sf
Exit 5	4,370 sf	3,496 sf	0 sf	0 sf
Exit 6	0 sf	5,528 sf	73 sf	0 sf
Exit 7	1,002 sf	1,596 sf	0 sf	3,434 sf
Exit 8	0 sf	0 sf	0 sf	2,932 sf
Exit 9	N/A	7,349 sf	0 sf	0 sf
Exit 10	3,133 sf	5,213 sf	642 sf	0 sf
Exit 11	4,224 sf	5,018 sf	1,333 sf	1,160 sf
Exit 12	2,832 sf	2,742 sf	1,618 sf	663 sf

Massachusetts Highway Department

R28105 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28105	Type:	SPOT
Located On:	RAMP-RT 6 EB TO RT 130	:	Exit 2 Route 130 Sandwich Mashpee
Direction:	RAMP		
Community:	Sandwich	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	35	42						39	39
1:00 AM	22	26						24	24
2:00 AM	14	12						13	13
3:00 AM	14	19						17	17
4:00 AM	33	34						34	34
5:00 AM	94	95						95	95
6:00 AM	292	338						315	315
7:00 AM	412	430						421	421
8:00 AM	410	460						435	435
9:00 AM	349	352						351	351
10:00 AM	372	380						376	376
11:00 AM	374	382						378	378
12:00 PM	392	399						396	396
1:00 PM	398	441						420	420
2:00 PM	443	518						481	481
3:00 PM	485	520						503	503
4:00 PM	577	559						568	568
5:00 PM	588	561						575	575
6:00 PM	410	447						429	429
7:00 PM	282	359						321	321
8:00 PM	220	253						237	237
9:00 PM	152	173						163	163
10:00 PM	93	128						111	111
11:00 PM	68	63						66	66
Total	6529	6991	0	0	0	0	0		6760
24HrTotal	6529	6991						6760	
AM Pk Hr	7:00	8:00							
AM Peak	412	460						436	
PM Pk Hr	5:00	5:00							
PM Peak	588	561						575	
% Peak Hr	9.01%	8.02%						8.50%	
% Peak Hr	9.01%	8.02%						8.52%	

Massachusetts Highway Department

R28106 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28106
 Located On: RAMP-RT 130 TO RT 6 EB
 Direction: RAMP
 Community: Sandwich
 AADT:

Type: SPOT
 : From Route 130
 Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				12	16	17		15	14
1:00 AM				6	7	12		8	7
2:00 AM				16	2	4		7	9
3:00 AM				4	11	6		7	8
4:00 AM				21	26	6		18	24
5:00 AM				63	45	16		41	54
6:00 AM				117	138	42		99	128
7:00 AM				254	278	91		208	266
8:00 AM				246	234	113		198	240
9:00 AM				223	211	158		197	217
10:00 AM				248	205	131		195	227
11:00 AM				237	219	142		199	228
12:00 PM				211	189	124		175	200
1:00 PM				244	246	133		208	245
2:00 PM				235	268	138		214	252
3:00 PM				226	194	113		178	210
4:00 PM				183	168	118		156	176
5:00 PM				185	141	349		225	163
6:00 PM				83	102	21		69	93
7:00 PM				74	66	55		65	70
8:00 PM				104	75	40		73	90
9:00 PM				53	53	44		50	53
10:00 PM				38	49	44		44	44
11:00 PM				19	26	30		25	23
Total	0	0	0	3102	2969	1947	0		3036
24HrTotal				3102	2969	1947		2673	
AM Pk Hr				7:00	7:00	9:00			
AM Peak				254	278	158		230	
PM Pk Hr				1:00	2:00	5:00			
PM Peak				244	268	349		287	
% Peak Hr				8.19%	9.36%	17.93%		11.67%	
% Peak Hr				8.19%	9.36%	17.93%		11.83%	

Massachusetts Highway Department

R28107 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28107
Located On:	RAMP-RT 6 EB TO QUAKER MEETING HOUSE RD
Direction:	RAMP
Community:	Sandwich
AADT:	

Type:	SPOT
:	Exit 3 Quaker Meetinghouse Road E Sandwich
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	9	11						10	10
1:00 AM	3	6						5	5
2:00 AM	1	4						3	3
3:00 AM	3	3						3	3
4:00 AM	6	3						5	5
5:00 AM	9	7						8	8
6:00 AM	28	46						37	37
7:00 AM	49	71						60	60
8:00 AM	69	103						86	86
9:00 AM	64	113						89	89
10:00 AM	77	99						88	88
11:00 AM	80	72						76	76
12:00 PM	83	82						83	83
1:00 PM	76	90						83	83
2:00 PM	83	107						95	95
3:00 PM	104	100						102	102
4:00 PM	87	116						102	102
5:00 PM	141	129						135	135
6:00 PM	89	104						97	97
7:00 PM	71	71						71	71
8:00 PM	53	52						53	53
9:00 PM	70	39						55	55
10:00 PM	61	23						42	42
11:00 PM	8	16						12	12
Total	1324	1467	0	0	0	0	0		1396
24HrTotal	1324		1467						1396
AM Pk Hr	11:00	9:00							
AM Peak	80	113						97	
PM Pk Hr	5:00	5:00							
PM Peak	141	129						135	
% Peak Hr	10.65%	8.79%						10.00%	
% Peak Hr	10.65%		8.79%						9.72%

Massachusetts Highway Department

R28108 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28108	Type:	SPOT
Located On:	RAMP-QUAKER MEETING HOUSE RD TO RT 6 EB	:	Quaker Meetinghouse Road On-Ramp
Direction	RAMP		
Community:	Sandwich	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	8	7						8	8
1:00 AM	11	5						8	8
2:00 AM	1	1						1	1
3:00 AM	9	7						8	8
4:00 AM	20	24						22	22
5:00 AM	64	56						60	60
6:00 AM	189	194						192	192
7:00 AM	283	273						278	278
8:00 AM	286	318						302	302
9:00 AM	185	192						189	189
10:00 AM	208	204						206	206
11:00 AM	189	164						177	177
12:00 PM	193	194						194	194
1:00 PM	178	162						170	170
2:00 PM	162	171						167	167
3:00 PM	210	193						202	202
4:00 PM	204	201						203	203
5:00 PM	174	175						175	175
6:00 PM	102	106						104	104
7:00 PM	80	80						80	80
8:00 PM	51	52						52	52
9:00 PM	40	40						40	40
10:00 PM	41	32						37	37
11:00 PM	16	21						19	19
Total	2904	2872	0	0	0	0	0		2888
24HrTotal	2904		2872						2888
AM Pk Hr	8:00	8:00							
AM Peak	286	318						302	
PM Pk Hr	3:00	4:00							
PM Peak	210	201						206	
% Peak Hr	9.85%	11.07%						10.50%	
% Peak Hr	9.85%	11.07%						10.46%	

Massachusetts Highway Department

R28110 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28110
 Located On: RAMP-RT 6 EB TO CHASE RD
 Direction: RAMP
 Community: Sandwich
 AADT:

Type: SPOT
 : RAMP-CHACE RD TO RT 6 EB
 Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	3	1						2	2
1:00 AM	4	3						4	4
2:00 AM	3	3						3	3
3:00 AM	7	4						6	6
4:00 AM	7	5						6	6
5:00 AM	35	33						34	34
6:00 AM	84	80						82	82
7:00 AM	167	200						184	184
8:00 AM	166	183						175	175
9:00 AM	94	107						101	101
10:00 AM	82	99						91	91
11:00 AM	103	96						100	100
12:00 PM	106	80						93	93
1:00 PM	82	77						80	80
2:00 PM	66	82						74	74
3:00 PM	85	88						87	87
4:00 PM	77	93						85	85
5:00 PM	75	76						76	76
6:00 PM	45	63						54	54
7:00 PM	37	43						40	40
8:00 PM	15	19						17	17
9:00 PM	50	10						30	30
10:00 PM	16	15						16	16
11:00 PM	10	6						8	8
Total	1419	1466	0	0	0	0	0		1443
24HrTotal	1419		1466						1443
AM Pk Hr	7:00	7:00							
AM Peak	167	200						184	
PM Pk Hr	12:00	4:00							
PM Peak	106	93						100	
% Peak Hr	11.77%	13.64%						13.00%	
% Peak Hr	11.77%	13.64%						12.71%	

Massachusetts Highway Department
R28148 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28148
Located On: RAMP-RT 6 WB TO CHASE RD
Direction: RAMP
Community: Sandwich
AADT:

Type: SPOT
: RAMP-RT 6 WB TO CHASE RD
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				9	12	19		13	11
1:00 AM				5	6	10		7	6
2:00 AM				2	4	7		4	3
3:00 AM				2	2	2		2	2
4:00 AM				5	0	1		2	3
5:00 AM				5	9	1		5	7
6:00 AM				21	14	9		15	18
7:00 AM				32	40	18		30	36
8:00 AM				72	71	37		60	72
9:00 AM				70	61	43		58	66
10:00 AM				60	73	78		70	67
11:00 AM				63	96	267		142	80
12:00 PM				74	87	545		235	81
1:00 PM				67	113	129		103	90
2:00 PM				83	127	79		96	105
3:00 PM				147	119	74		113	133
4:00 PM				191	156	71		139	174
5:00 PM				200	165	119		161	183
6:00 PM				124	98	41		88	111
7:00 PM				91	67	46		68	79
8:00 PM				82	52	46		60	67
9:00 PM				60	53	53		55	57
10:00 PM				43	44	40		42	44
11:00 PM				24	23	22		23	24
Total	0	0	0	1532	1492	1757	0		1512
24HrTotal				1532	1492	1757		1594	
AM Pk Hr				8:00	11:00	11:00			
AM Peak				72	96	267		145	
PM Pk Hr				5:00	5:00	12:00			
PM Peak				200	165	545		303	
% Peak Hr				13.05%	11.06%	31.02%		18.33%	
% Peak Hr				13.05%	11.06%	31.02%		18.38%	

Massachusetts Highway Department

R28149 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28149
Located On: RAMP-CHASE RD TO RT 6 WB
Direction: RAMP
Community: Sandwich
AADT:

Type: SPOT
: RAMP-CHASE RD TO RT 6 WB
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				5	5	6		5	5
1:00 AM				2	2	2		2	2
2:00 AM				1	3	6		3	2
3:00 AM				9	8	6		8	9
4:00 AM				19	20	6		15	20
5:00 AM				36	35	12		28	36
6:00 AM				82	64	24		57	73
7:00 AM				110	106	42		86	108
8:00 AM				118	87	60		88	103
9:00 AM				90	80	56		75	85
10:00 AM				57	69	46		57	63
11:00 AM				75	71	32		59	73
12:00 PM				71	63	24		53	67
1:00 PM				56	51	54		54	54
2:00 PM				40	50	54		48	45
3:00 PM				65	59	48		57	62
4:00 PM				52	55	48		52	54
5:00 PM				72	52	98		74	62
6:00 PM				49	63	16		43	56
7:00 PM				37	45	43		42	41
8:00 PM				30	24	25		26	27
9:00 PM				21	17	25		21	19
10:00 PM				23	7	23		18	15
11:00 PM				6	12	15		11	9
Total	0	0	0	1126	1048	771	0		1087
24HrTotal				1126	1048	771		982	
AM Pk Hr				8:00	7:00	8:00			
AM Peak				118	106	60		95	
PM Pk Hr				5:00	12:00	5:00			
PM Peak				72	63	98		78	
% Peak Hr				10.48%	10.11%	12.71%		11.00%	
% Peak Hr				10.48%	10.11%	12.71%		11.10%	

Massachusetts Highway Department

R28150 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28150	Type:	SPOT
Located On:	RAMP-RT 6 WB TO QUAKER MEETING HOUSE RD	:	Exit 3 Quaker Meetinghouse Road E Sandwich
Direction:	RAMP		
Community:	Sandwich	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				11	24	32		22	18
1:00 AM				7	22	16		15	15
2:00 AM				3	7	11		7	5
3:00 AM				3	4	3		3	4
4:00 AM				4	9	6		6	7
5:00 AM				23	19	14		19	21
6:00 AM				57	56	26		46	57
7:00 AM				119	110	59		96	115
8:00 AM				142	140	69		117	141
9:00 AM				143	127	97		122	135
10:00 AM				120	149	343		204	135
11:00 AM				165	181	186		177	173
12:00 PM				194	181	398		258	188
1:00 PM				175	187	436		266	181
2:00 PM				200	207	193		200	204
3:00 PM				228	233	159		207	231
4:00 PM				291	264	183		246	278
5:00 PM				346	253	200		266	300
6:00 PM				191	203	108		167	197
7:00 PM				126	120	94		113	123
8:00 PM				140	112	104		119	126
9:00 PM				111	82	87		93	97
10:00 PM				74	69	81		75	72
11:00 PM				35	45	52		44	40
Total	0	0	0	2908	2804	2957	0		2856
24HrTotal				2908	2804	2957		2890	
AM Pk Hr				11:00	11:00	10:00			
AM Peak				165	181	343		230	
PM Pk Hr				5:00	4:00	1:00			
PM Peak				346	264	436		349	
% Peak Hr				11.90%	9.42%	14.74%		12.00%	
% Peak Hr				11.90%	9.42%	14.74%		12.02%	

Massachusetts Highway Department
R28151 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28151	Type:	SPOT
Located On:	RAMP-QUAKER MEETING HOUSE RD TO RT 6 WB	:	Quaker Meetinghouse Road On-Ramp
Direction	RAMP		
Community:	Sandwich	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				5	12	8		8	9
1:00 AM				1	3	6		3	2
2:00 AM				2	2	1		2	2
3:00 AM				8	6	5		6	7
4:00 AM				23	24	7		18	24
5:00 AM				40	34	36		37	37
6:00 AM				76	52	29		52	64
7:00 AM				103	100	73		92	102
8:00 AM				107	102	62		90	105
9:00 AM				113	84	83		93	99
10:00 AM				97	85	86		89	91
11:00 AM				96	146	67		103	121
12:00 PM				98	138	45		94	118
1:00 PM				88	86	37		70	87
2:00 PM				66	83	33		61	75
3:00 PM				85	68	48		67	77
4:00 PM				72	61	63		65	67
5:00 PM				79	70	140		96	75
6:00 PM				57	42	14		38	50
7:00 PM				52	44	28		41	48
8:00 PM				50	33	36		40	42
9:00 PM				25	23	35		28	24
10:00 PM				11	6	21		13	9
11:00 PM				8	19	13		13	14
Total	0	0	0	1362	1323	976	0		1343
24HrTotal				1362	1323	976		1220	
AM Pk Hr				9:00	11:00	10:00			
AM Peak				113	146	86		115	
PM Pk Hr				12:00	12:00	5:00			
PM Peak				98	138	140		125	
% Peak Hr				8.30%	11.04%	14.34%		11.00%	
% Peak Hr				8.30%	11.04%	14.34%		11.23%	

Massachusetts Highway Department

R28152 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28152
 Located On: RAMP-RT 6 WB TO RT 130
 Direction: RAMP
 Community: Sandwich
 AADT:

Type: SPOT
 : Exit 2 Route 130 Sandwich Mashpee
 Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				7	9	15		10	8
1:00 AM				5	4	13		7	5
2:00 AM				5	5	4		5	5
3:00 AM				0	1	2		1	1
4:00 AM				23	24	10		19	24
5:00 AM				49	34	12		32	42
6:00 AM				141	126	29		99	134
7:00 AM				231	167	62		153	199
8:00 AM				208	224	104		179	216
9:00 AM				212	194	105		170	203
10:00 AM				169	216	183		189	193
11:00 AM				215	181	144		180	198
12:00 PM				196	196	98		163	196
1:00 PM				169	205	226		200	187
2:00 PM				214	160	214		196	187
3:00 PM				213	210	116		180	212
4:00 PM				203	190	110		168	197
5:00 PM				195	169	135		166	182
6:00 PM				141	138	100		126	140
7:00 PM				119	89	69		92	104
8:00 PM				81	70	52		68	76
9:00 PM				59	49	38		49	54
10:00 PM				51	51	31		44	51
11:00 PM				21	27	34		27	24
Total	0	0	0	2927	2739	1906	0		2833
24HrTotal				2927	2739	1906		2524	
AM Pk Hr				7:00	8:00	10:00			
AM Peak				231	224	183		213	
PM Pk Hr				2:00	3:00	1:00			
PM Peak				214	210	226		217	
% Peak Hr				7.89%	8.18%	11.86%		9.33%	
% Peak Hr				7.89%	8.18%	11.86%		9.31%	

Massachusetts Highway Department
R28153 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28153
Located On: RAMP-RT 130 TO RT 6 WB
Direction: RAMP
Community: Sandwich
AADT:

Type: SPOT
: From Route 130
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				29	28	31		29	29
1:00 AM				18	22	41		27	20
2:00 AM				12	7	10		10	10
3:00 AM				39	32	27		33	36
4:00 AM				98	81	40		73	90
5:00 AM				239	195	98		177	217
6:00 AM				352	286	134		257	319
7:00 AM				472	391	236		366	432
8:00 AM				472	371	242		362	422
9:00 AM				363	354	284		334	359
10:00 AM				394	344	304		347	369
11:00 AM				362	351	428		380	357
12:00 PM				330	306	666		434	318
1:00 PM				337	296	515		383	317
2:00 PM				373	283	232		296	328
3:00 PM				474	345	300		373	410
4:00 PM				483	365	285		378	424
5:00 PM				488	357	268		371	423
6:00 PM				312	270	166		249	291
7:00 PM				215	183	185		194	199
8:00 PM				201	183	203		196	192
9:00 PM				141	140	130		137	141
10:00 PM				90	82	94		89	86
11:00 PM				47	62	60		56	55
Total	0	0	0	6341	5334	4979	0		5838
24HrTotal				6341	5334	4979		5551	
AM Pk Hr				7:00	7:00	11:00			
AM Peak				472	391	428		430	
PM Pk Hr				5:00	4:00	12:00			
PM Peak				488	365	666		506	
% Peak Hr				7.70%	7.33%	13.38%		9.33%	
% Peak Hr				7.70%	7.33%	13.38%		9.47%	

Massachusetts Highway Department

R28103 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28103
Located On:	RAMP-RT 6 EB TO MID CAPE CONN (RT 6A)
Direction:	RAMP
Community:	Bourne
AADT:	

Type:	SPOT
:	Exit 1C Route 6A Sagamore
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				33	48	67		49	41
1:00 AM				24	27	44		32	26
2:00 AM				20	26	46		31	23
3:00 AM				38	31	48		39	35
4:00 AM				85	87	79		84	86
5:00 AM				119	140	88		116	130
6:00 AM				360	350	197		302	355
7:00 AM				559	541	398		499	550
8:00 AM				565	576	558		566	571
9:00 AM				571	610	512		564	591
10:00 AM				586	553	483		541	570
11:00 AM				528	487	433		483	508
12:00 PM				584	480	418		494	532
1:00 PM				572	532	394		499	552
2:00 PM				516	509	443		489	513
3:00 PM				545	502	434		494	524
4:00 PM				566	543	466		525	555
5:00 PM				494	493	310		432	494
6:00 PM				547	442	369		453	495
7:00 PM				443	384	303		377	414
8:00 PM				314	324	218		285	319
9:00 PM				187	234	170		197	211
10:00 PM				115	193	121		143	154
11:00 PM				74	146	93		104	110
Total	0	0	0	8445	8258	6692	0		8352
24HrTotal				8445	8258	6692		7798	
AM Pk Hr				10:00	9:00	8:00			
AM Peak				586	610	558		585	
PM Pk Hr				12:00	4:00	4:00			
PM Peak				584	543	466		531	
% Peak Hr				6.94%	7.39%	8.34%		7.33%	
% Peak Hr				6.94%	7.39%	8.34%		7.55%	

Massachusetts Highway Department

R28154 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28154
Located On:	RAMP-RT 6 WB TO CRANBERRY HWY (RT 6A)
Direction:	RAMP
Community:	Bourne
AADT:	

Type:	SPOT
:	Exit 1C Route 6A Sagamore
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				23	25	32		27	24
1:00 AM				8	10	15		11	9
2:00 AM				11	9	15		12	10
3:00 AM				19	29	15		21	24
4:00 AM				52	41	31		41	47
5:00 AM				77	71	58		69	74
6:00 AM				192	168	112		157	180
7:00 AM				323	291	212		275	307
8:00 AM				355	348	362		355	352
9:00 AM				332	361	493		395	347
10:00 AM				386	397	319		367	392
11:00 AM				391	407	249		349	399
12:00 PM				478	492	196		389	485
1:00 PM				342	514	198		351	428
2:00 PM				374	485	287		382	430
3:00 PM				419	474	258		384	447
4:00 PM				393	396	297		362	395
5:00 PM				396	361	244		334	379
6:00 PM				286	306	213		268	296
7:00 PM				201	210	164		192	206
8:00 PM				194	165	156		172	180
9:00 PM				156	104	117		126	130
10:00 PM				95	79	87		87	87
11:00 PM				50	67	45		54	59
Total	0	0	0	5553	5810	4175	0		5682
24HrTotal				5553	5810	4175		5179	
AM Pk Hr				11:00	11:00	9:00			
AM Peak				391	407	493		430	
PM Pk Hr				12:00	1:00	4:00			
PM Peak				478	514	297		430	
% Peak Hr				8.61%	8.85%	11.81%		10.00%	
% Peak Hr				8.61%	8.85%	11.81%		9.75%	

Massachusetts Highway Department

R28155 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28155
Located On:	RAMP-CRANBERRY HWY (RT 6A) TO RT 6 WB
Direction	RAMP
Community:	Bourne
AADT:	

Type:	SPOT
:	From Route 6A
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				36	31	46		38	34
1:00 AM				17	27	38		27	22
2:00 AM				13	17	32		21	15
3:00 AM				20	34	23		26	27
4:00 AM				84	57	41		61	71
5:00 AM				158	123	98		126	141
6:00 AM				294	253	137		228	274
7:00 AM				397	362	283		347	380
8:00 AM				460	402	408		423	431
9:00 AM				450	504	511		488	477
10:00 AM				444	474	693		537	459
11:00 AM				557	491	634		561	524
12:00 PM				481	451	638		523	466
1:00 PM				494	502	701		566	498
2:00 PM				516	497	622		545	507
3:00 PM				609	640	519		589	625
4:00 PM				585	542	497		541	564
5:00 PM				671	507	393		524	589
6:00 PM				534	441	309		428	488
7:00 PM				435	330	345		370	383
8:00 PM				397	326	296		340	362
9:00 PM				297	208	221		242	253
10:00 PM				180	189	174		181	185
11:00 PM				81	100	112		98	91
Total	0	0	0	8210	7508	7771	0		7859
24HrTotal				8210	7508	7771		7830	
AM Pk Hr				11:00	9:00	10:00			
AM Peak				557	504	693		585	
PM Pk Hr				5:00	3:00	1:00			
PM Peak				671	640	701		671	
% Peak Hr				8.17%	8.52%	9.02%		8.67%	
% Peak Hr				8.17%	8.52%	9.02%		8.57%	

Massachusetts Highway Department

R28111 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28111
Located On: RAMP-RT 6 EB TO RT 149
Direction: RAMP
Community: Barnstable
AADT:

Type: SPOT
: Ramp - Rte 6 EB to Rte 149
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	22	12						17	17
1:00 AM	14	5						10	10
2:00 AM	11	6						9	9
3:00 AM	10	13						12	12
4:00 AM	16	9						13	13
5:00 AM	43	26						35	35
6:00 AM	140	141						141	141
7:00 AM	223	247						235	235
8:00 AM	235	252						244	244
9:00 AM	162	176						169	169
10:00 AM	199	222						211	211
11:00 AM	207	230						219	219
12:00 PM	248	232						240	240
1:00 PM	212	244						228	228
2:00 PM	248	253						251	251
3:00 PM	268	266						267	267
4:00 PM	270	315						293	293
5:00 PM	297	332						315	315
6:00 PM	259	270						265	265
7:00 PM	157	210						184	184
8:00 PM	114	154						134	134
9:00 PM	84	139						112	112
10:00 PM	61	78						70	70
11:00 PM	79	44						62	62
Total	3579	3876	0	0	0	0	0		3728
24HrTotal		3579	3876					3728	
AM Pk Hr	8:00	8:00							
AM Peak	235	252						244	
PM Pk Hr	5:00	5:00							
PM Peak	297	332						315	
% Peak Hr	8.30%	8.57%						8.50%	
% Peak Hr		8.30%	8.57%					8.43%	

Massachusetts Highway Department

R28143 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28143
Located On: RAMP-RT 6 WB TO RT 132
Direction: RAMP
Community: Barnstable
AADT:

Type: SPOT
: RAMP-RT 6 WB TO RT 132
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				36	32	49		39	34
1:00 AM				9	27	23		20	18
2:00 AM				9	7	14		10	8
3:00 AM				8	10	12		10	9
4:00 AM				25	16	9		17	21
5:00 AM				75	74	34		61	75
6:00 AM				139	164	84		129	152
7:00 AM				344	316	153		271	330
8:00 AM				453	410	250		371	432
9:00 AM				426	409	341		392	418
10:00 AM				413	414	546		458	414
11:00 AM				459	478	694		544	469
12:00 PM				450	503	595		516	477
1:00 PM				432	466	456		451	449
2:00 PM				498	479	432		470	489
3:00 PM				524	497	388		470	511
4:00 PM				623	675	410		569	649
5:00 PM				640	527	363		510	584
6:00 PM				375	375	286		345	375
7:00 PM				304	275	210		263	290
8:00 PM				213	197	136		182	205
9:00 PM				181	121	119		140	151
10:00 PM				143	118	103		121	131
11:00 PM				68	77	95		80	73
Total	0	0	0	6847	6667	5802	0		6757
24HrTotal				6847	6667	5802		6439	
AM Pk Hr				11:00	11:00	11:00			
AM Peak				459	478	694		544	
PM Pk Hr				5:00	4:00	12:00			
PM Peak				640	675	595		637	
% Peak Hr				9.35%	10.12%	11.96%		10.33%	
% Peak Hr				9.35%	10.12%	11.96%		10.48%	

Massachusetts Highway Department
R28144 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28144
Located On:	
Direction	RAMP
Community:	Barnstable
AADT:	

Type:	SPOT
:	RAMP-RT 132 TO RT 6 WB
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				41	37	68		49	39
1:00 AM				26	41	61		43	34
2:00 AM				29	20	26		25	25
3:00 AM				24	21	25		23	23
4:00 AM				50	50	41		47	50
5:00 AM				100	96	61		86	98
6:00 AM				189	191	129		170	190
7:00 AM				289	277	232		266	283
8:00 AM				317	339	320		325	328
9:00 AM				463	464	447		458	464
10:00 AM				468	515	391		458	492
11:00 AM				536	571	391		499	554
12:00 PM				546	531	393		490	539
1:00 PM				544	536	457		512	540
2:00 PM				644	654	503		600	649
3:00 PM				735	617	542		631	676
4:00 PM				780	664	493		646	722
5:00 PM				777	709	556		681	743
6:00 PM				459	436	421		439	448
7:00 PM				445	376	316		379	411
8:00 PM				401	334	350		362	368
9:00 PM				294	253	274		274	274
10:00 PM				171	272	256		233	222
11:00 PM				66	130	116		104	98
Total	0	0	0	8394	8134	6869	0		8264
24HrTotal				8394	8134	6869		7799	
AM Pk Hr				11:00	11:00	9:00			
AM Peak				536	571	447		518	
PM Pk Hr				4:00	5:00	5:00			
PM Peak				780	709	556		682	
% Peak Hr				9.29%	8.72%	8.09%		8.67%	
% Peak Hr				9.29%	8.72%	8.09%		8.70%	

Massachusetts Highway Department

R28145 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28145
Located On: RAMP-RT 132/PARK AND RIDE TO RT 6 WB
Direction: RAMP
Community: Barnstable
AADT:

Type: SPOT
: Park and Ride On-Ramp
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				11	13	30		18	12
1:00 AM				10	16	16		14	13
2:00 AM				7	12	10		10	10
3:00 AM				9	20	13		14	15
4:00 AM				22	24	25		24	23
5:00 AM				58	40	111		70	49
6:00 AM				101	118	62		94	110
7:00 AM				139	117	76		111	128
8:00 AM				157	153	114		141	155
9:00 AM				136	163	134		144	150
10:00 AM				150	156	141		149	153
11:00 AM				169	165	134		156	167
12:00 PM				136	170	142		149	153
1:00 PM				175	168	132		158	172
2:00 PM				182	182	138		167	182
3:00 PM				197	196	137		177	197
4:00 PM				230	221	132		194	226
5:00 PM				226	179	152		186	203
6:00 PM				125	140	118		128	133
7:00 PM				134	132	84		117	133
8:00 PM				123	87	86		99	105
9:00 PM				77	67	79		74	72
10:00 PM				61	68	61		63	65
11:00 PM				32	31	41		35	32
Total	0	0	0	2667	2638	2168	0		2653
24HrTotal				2667	2638	2168		2491	
AM Pk Hr				11:00	11:00	10:00			
AM Peak				169	165	141		158	
PM Pk Hr				4:00	4:00	5:00			
PM Peak				230	221	152		201	
% Peak Hr				8.62%	8.38%	7.01%		8.00%	
% Peak Hr				8.62%	8.38%	7.01%		8.00%	

Massachusetts Highway Department **R28146 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018**

Location ID: R28146
Located On: RAMP-RT 6 WB TO RT 149
Direction: RAMP
Community: Barnstable
AADT:

Type: SPOT
: Ramp - Rte 6 WB to Rte 149
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				24	35	41		33	30
1:00 AM				11	16	28		18	14
2:00 AM				7	7	25		13	7
3:00 AM				5	4	4		4	5
4:00 AM				9	18	7		11	14
5:00 AM				30	35	17		27	33
6:00 AM				137	111	64		104	124
7:00 AM				274	254	117		215	264
8:00 AM				305	320	189		271	313
9:00 AM				299	309	222		277	304
10:00 AM				244	272	247		254	258
11:00 AM				282	286	309		292	284
12:00 PM				261	341	472		358	301
1:00 PM				260	328	372		320	294
2:00 PM				335	288	305		309	312
3:00 PM				362	430	329		374	396
4:00 PM				449	435	347		410	442
5:00 PM				469	461	364		431	465
6:00 PM				342	312	279		311	327
7:00 PM				287	208	152		216	248
8:00 PM				237	175	156		189	206
9:00 PM				198	155	135		163	177
10:00 PM				145	147	131		141	146
11:00 PM				85	87	99		90	86
Total	0	0	0	5057	5034	4411	0		5046
24HrTotal					5057	5034	4411		4834
AM Pk Hr				8:00	8:00	11:00			
AM Peak				305	320	309		311	
PM Pk Hr				5:00	5:00	12:00			
PM Peak				469	461	472		467	
% Peak Hr				9.27%	9.16%	10.70%		9.67%	
% Peak Hr					9.27%	9.16%	10.70%		9.71%

Massachusetts Highway Department

R28147 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28147
Located On:	RAMP-RT 149 TO RT 6 WB
Direction	RAMP
Community:	Barnstable
AADT:	

Type:	SPOT
:	Ramp - Rte 149 to Rte 6 WB
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				19	9	20		16	14
1:00 AM				2	8	9		6	5
2:00 AM				10	9	11		10	10
3:00 AM				24	21	12		19	23
4:00 AM				62	61	30		51	62
5:00 AM				123	93	68		95	108
6:00 AM				262	200	107		190	231
7:00 AM				308	286	168		254	297
8:00 AM				321	321	207		283	321
9:00 AM				292	260	239		264	276
10:00 AM				235	270	230		245	253
11:00 AM				271	231	182		228	251
12:00 PM				253	244	131		209	249
1:00 PM				246	265	175		229	256
2:00 PM				304	269	191		255	287
3:00 PM				329	251	189		256	290
4:00 PM				319	281	219		273	300
5:00 PM				306	288	232		275	297
6:00 PM				199	203	129		177	201
7:00 PM				147	112	130		130	130
8:00 PM				137	103	118		119	120
9:00 PM				87	91	107		95	89
10:00 PM				47	76	76		66	62
11:00 PM				22	36	66		41	29
Total	0	0	0	4325	3988	3046	0		4157
24HrTotal				4325	3988	3046		3786	
AM Pk Hr				8:00	8:00	9:00			
AM Peak				321	321	239		294	
PM Pk Hr				3:00	5:00	5:00			
PM Peak				329	288	232		283	
% Peak Hr				7.61%	8.05%	7.85%		8.00%	
% Peak Hr				7.61%	8.05%	7.85%		7.83%	

Massachusetts Highway Department

R28140 Weekly Volume Report - Mon 04/09/2018 - Sun 04/15/2018

Location ID: R28140
Located On: RAMP-UNION ST TO RT 6 WB
Direction: RAMP
Community: Yarmouth
AADT:

Type: SPOT
: Ramp - Union Street to Rte. 6 WB
Period: Mon 04/09/2018 - Sun 04/15/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM		3	7	13				8	8
1:00 AM		8	6	8				7	7
2:00 AM		20	17	15				17	17
3:00 AM		48	42	63				51	51
4:00 AM		152	130	134				139	139
5:00 AM		361	357	326				348	348
6:00 AM		495	493	492				493	493
7:00 AM		474	463	454				464	464
8:00 AM		357	369	358				361	361
9:00 AM		330	344	369				348	348
10:00 AM		371	368	349				363	363
11:00 AM	346	394	345					362	362
12:00 PM	362	365	344					357	357
1:00 PM	431	472	444					449	449
2:00 PM	449	486	477					471	471
3:00 PM	542	500	543					528	528
4:00 PM	469	442	464					458	458
5:00 PM	324	271	242					279	279
6:00 PM	164	179	189					177	177
7:00 PM	132	111	128					124	124
8:00 PM	91	114	139					115	115
9:00 PM	53	65	61					60	60
10:00 PM	26	26	35					29	29
11:00 PM	11	13	16					13	13
Total	3400	6057	6023	2581	0	0	0		6020
24HrTotal	6019		6034	6008				6020	
AM Pk Hr		6:00	6:00						
AM Peak		495	493					494	
PM Pk Hr		3:00	3:00						
PM Peak		500	543					522	
% Peak Hr		8.25%	9.02%					8.50%	
% Peak Hr	9.00%	8.29%	9.04%					8.78%	

Massachusetts Highway Department

R28139 Weekly Volume Report - Mon 04/09/2018 - Sun 04/15/2018

Location ID:	R28139
Located On:	RAMP-RT 6 WB TO STATION AVE/UNION ST
Direction:	RAMP
Community:	Yarmouth
AADT:	

Type:	SPOT
:	Ramp - Rte 6 WB to Union Street
Period:	Mon 04/09/2018 - Sun 04/15/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM		11	6	9				9	9
1:00 AM		3	5	6				5	5
2:00 AM		1	2	4				2	2
3:00 AM		1	2	3				2	2
4:00 AM		8	2	6				5	5
5:00 AM		24	29	26				26	26
6:00 AM		111	123	117				117	117
7:00 AM		245	241	247				244	244
8:00 AM		251	247	235				244	244
9:00 AM		229	216	230				225	225
10:00 AM		199	203	221				208	208
11:00 AM		245	173	238				219	219
12:00 PM	210	216	198					208	208
1:00 PM	210	234	217					220	220
2:00 PM	230	241	260					244	244
3:00 PM	326	320	363					336	336
4:00 PM	347	368	341					352	352
5:00 PM	320	295	289					301	301
6:00 PM	180	179	172					177	177
7:00 PM	120	121	136					126	126
8:00 PM	64	71	98					78	78
9:00 PM	67	44	68					60	60
10:00 PM	28	26	32					29	29
11:00 PM	22	19	27					23	23
Total	2124	3462	3450	1342	0	0	0		3459
24HrTotal		3452	3383	3543				3459	
AM Pk Hr		8:00	8:00						
AM Peak		251	247					249	
PM Pk Hr		4:00	3:00						
PM Peak		368	363					366	
% Peak Hr		10.63%	10.52%					11.00%	
% Peak Hr		10.05%	10.88%	10.25%				10.39%	

Massachusetts Highway Department

R28139 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28139
Located On:	RAMP-RT 6 WB TO STATION AVE/UNION ST
Direction:	RAMP
Community:	Yarmouth
AADT:	

Type:	SPOT
:	Ramp - Rte 6 WB to Union Street
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				32	33	29		31	33
1:00 AM				14	10	13		12	12
2:00 AM				10	9	9		9	10
3:00 AM				2	3	8		4	3
4:00 AM				8	14	3		8	11
5:00 AM				27	27	199		84	27
6:00 AM				72	75	38		62	74
7:00 AM				194	162	82		146	178
8:00 AM				200	218	135		184	209
9:00 AM				196	182	153		177	189
10:00 AM				194	175	251		207	185
11:00 AM				219	184	278		227	202
12:00 PM				211	212	185		203	212
1:00 PM				242	219	158		206	231
2:00 PM				234	204	192		210	219
3:00 PM				238	274	204		239	256
4:00 PM				259	257	190		235	258
5:00 PM				230	251	198		226	241
6:00 PM				208	196	211		205	202
7:00 PM				168	158	114		147	163
8:00 PM				140	119	86		115	130
9:00 PM				116	91	77		95	104
10:00 PM				80	69	62		70	75
11:00 PM				56	62	46		55	59
Total	0	0	0	3350	3204	2921	0		3277
24HrTotal				3350	3204	2921		3158	
AM Pk Hr				11:00	8:00	11:00			
AM Peak				219	218	278		238	
PM Pk Hr				4:00	3:00	6:00			
PM Peak				259	274	211		248	
% Peak Hr				7.73%	8.55%	9.52%		9.00%	
% Peak Hr				7.73%	8.55%	9.52%		8.60%	

Massachusetts Highway Department

R28140 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28140
Located On: RAMP-UNION ST TO RT 6 WB
Direction: RAMP
Community: Yarmouth
AADT:

Type: SPOT
: Ramp - Union Street to Rte. 6 WB
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				26	40	33		33	33
1:00 AM				14	20	26		20	17
2:00 AM				7	10	21		13	9
3:00 AM				24	23	15		21	24
4:00 AM				70	64	42		59	67
5:00 AM				154	139	352		215	147
6:00 AM				352	334	207		298	343
7:00 AM				497	459	343		433	478
8:00 AM				557	586	591		578	572
9:00 AM				495	553	661		570	524
10:00 AM				471	570	626		556	521
11:00 AM				509	548	550		536	529
12:00 PM				440	522	496		486	481
1:00 PM				501	521	533		518	511
2:00 PM				563	546	444		518	555
3:00 PM				604	590	420		538	597
4:00 PM				671	668	486		608	670
5:00 PM				665	534	486		562	600
6:00 PM				382	395	390		389	389
7:00 PM				338	324	252		305	331
8:00 PM				264	280	251		265	272
9:00 PM				188	160	177		175	174
10:00 PM				114	132	127		124	123
11:00 PM				100	78	112		97	89
Total	0	0	0	8006	8096	7641	0		8051
24HrTotal				8006	8096	7641		7914	
AM Pk Hr				8:00	8:00	9:00			
AM Peak				557	586	661		601	
PM Pk Hr				4:00	4:00	1:00			
PM Peak				671	668	533		624	
% Peak Hr				8.38%	8.25%	8.65%		8.33%	
% Peak Hr				8.38%	8.25%	8.65%		8.43%	

Massachusetts Highway Department

R28141 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28141
Located On: RAMP-RT 6 WB TO WILLOW ST
Direction: RAMP
Community: Yarmouth
AADT:

Type: SPOT
: RAMP-RT 6 WB TO WILLOW ST
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				59	62	76		66	61
1:00 AM				43	45	52		47	44
2:00 AM				19	30	32		27	25
3:00 AM				30	30	40		33	30
4:00 AM				43	41	40		41	42
5:00 AM				144	128	75		116	136
6:00 AM				429	386	174		330	408
7:00 AM				837	753	314		635	795
8:00 AM				1069	950	455		825	1010
9:00 AM				777	768	527		691	773
10:00 AM				787	760	579		709	774
11:00 AM				700	744	599		681	722
12:00 PM				742	698	778		739	720
1:00 PM				756	777	688		740	767
2:00 PM				801	717	635		718	759
3:00 PM				802	779	741		774	791
4:00 PM				780	845	676		767	813
5:00 PM				807	773	694		758	790
6:00 PM				649	739	624		671	694
7:00 PM				543	549	388		493	546
8:00 PM				351	351	235		312	351
9:00 PM				340	268	198		269	304
10:00 PM				234	199	214		216	217
11:00 PM				138	154	168		153	146
Total	0	0	0	11880	11546	9002	0		11713
24HrTotal					11880	11546	9002		10809
AM Pk Hr				8:00	8:00	11:00			
AM Peak				1069	950	599		873	
PM Pk Hr				5:00	4:00	12:00			
PM Peak				807	845	778		810	
% Peak Hr				9.00%	8.23%	8.64%		8.67%	
% Peak Hr					9.00%	8.23%	8.64%		8.62%

Massachusetts Highway Department

R28142 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28142
 Located On:
 Direction: RAMP
 Community: Yarmouth
 AADT:

Type: SPOT
 : RAMP-WILLOW ST TO RT 6 WB
 Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				18	16	25		20	17
1:00 AM				4	12	13		10	8
2:00 AM				13	15	13		14	14
3:00 AM				19	18	15		17	19
4:00 AM				35	27	17		26	31
5:00 AM				73	63	41		59	68
6:00 AM				145	119	105		123	132
7:00 AM				259	264	206		243	262
8:00 AM				314	296	283		298	305
9:00 AM				367	417	447		410	392
10:00 AM				358	404	361		374	381
11:00 AM				380	412	453		415	396
12:00 PM				340	389	372		367	365
1:00 PM				294	374	311		326	334
2:00 PM				461	415	397		424	438
3:00 PM				446	479	351		425	463
4:00 PM				522	561	286		456	542
5:00 PM				412	420	357		396	416
6:00 PM				306	342	215		288	324
7:00 PM				295	293	215		268	294
8:00 PM				206	175	175		185	191
9:00 PM				106	133	110		116	120
10:00 PM				89	97	124		103	93
11:00 PM				66	50	68		61	58
Total	0	0	0	5528	5791	4960	0		5660
24HrTotal				5528	5791	4960		5426	
AM Pk Hr				11:00	9:00	11:00			
AM Peak				380	417	453		417	
PM Pk Hr				4:00	4:00	2:00			
PM Peak				522	561	397		493	
% Peak Hr				9.44%	9.69%	9.13%		9.33%	
% Peak Hr				9.44%	9.69%	9.13%		9.42%	

Massachusetts Highway Department

R28135 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28135	Type:	SPOT
Located On:	RAMP-RT 6 WB TO RT 134 NB	:	Route 6 WB off ramp to Route 134 NB
Direction:	RAMP		
Community:	Dennis	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				14	11	10		12	13
1:00 AM				7	6	10		8	7
2:00 AM				3	4	2		3	4
3:00 AM				1	1	1		1	1
4:00 AM				2	2	6		3	2
5:00 AM				6	5	18		10	6
6:00 AM				22	16	25		21	19
7:00 AM				53	43	25		40	48
8:00 AM				65	71	20		52	68
9:00 AM				69	86	20		58	78
10:00 AM				63	58	16		46	61
11:00 AM				57	41	24		41	49
12:00 PM				64	54	38		52	59
1:00 PM				97	72	72		80	85
2:00 PM				78	74	95		82	76
3:00 PM				78	63	71		71	71
4:00 PM				56	58	81		65	57
5:00 PM				55	56	82		64	56
6:00 PM				58	59	100		72	59
7:00 PM				71	75	62		69	73
8:00 PM				51	53	46		50	52
9:00 PM				75	33	30		46	54
10:00 PM				37	43	34		38	40
11:00 PM				27	28	25		27	28
Total	0	0	0	1109	1012	913	0		1061
24HrTotal				1109	1012	913		1011	
AM Pk Hr				9:00	9:00	6:00			
AM Peak				69	86	25		60	
PM Pk Hr				1:00	7:00	6:00			
PM Peak				97	75	100		91	
% Peak Hr				8.75%	8.50%	10.95%		9.33%	
% Peak Hr				8.75%	8.50%	10.95%		9.40%	

Massachusetts Highway Department

R28138 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28138
 Located On: RAMP-RT 134 SB TO RT 6 WB
 Direction: RAMP
 Community: Dennis
 AADT:

Type: SPOT
 : Route 6 WB on ramp from Route 134 SB
 Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				13	20	15		16	17
1:00 AM				5	6	14		8	6
2:00 AM				3	12	14		10	8
3:00 AM				14	13	9		12	14
4:00 AM				33	30	24		29	32
5:00 AM				75	68	570		238	72
6:00 AM				196	167	181		181	182
7:00 AM				343	290	227		287	317
8:00 AM				349	341	313		334	345
9:00 AM				308	305	433		349	307
10:00 AM				327	335	460		374	331
11:00 AM				291	382	415		363	337
12:00 PM				264	315	292		290	290
1:00 PM				254	328	262		281	291
2:00 PM				271	301	268		280	286
3:00 PM				313	353	279		315	333
4:00 PM				383	330	277		330	357
5:00 PM				300	333	279		304	317
6:00 PM				277	239	110		209	258
7:00 PM				208	202	128		179	205
8:00 PM				156	143	115		138	150
9:00 PM				125	82	109		105	104
10:00 PM				58	55	74		62	57
11:00 PM				34	37	55		42	36
Total	0	0	0	4600	4687	4923	0		4644
24HrTotal				4600	4687	4923		4737	
AM Pk Hr				8:00	11:00	5:00			
AM Peak				349	382	570		434	
PM Pk Hr				4:00	3:00	12:00			
PM Peak				383	353	292		343	
% Peak Hr				8.33%	8.15%	11.58%		9.33%	
% Peak Hr				8.33%	8.15%	11.58%		9.35%	

Massachusetts Highway Department

R28123 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28123
Located On: RAMP-RT 6 EB TO RT 124
Direction: RAMP
Community: Harwich
AADT:

Type: SPOT
: Route 6 EB off ramp to Route 124
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	31	31						31	31
1:00 AM	28	25						27	27
2:00 AM	8	13						11	11
3:00 AM	14	14						14	14
4:00 AM	19	22						21	21
5:00 AM	48	64						56	56
6:00 AM	184	210						197	197
7:00 AM	367	364						366	366
8:00 AM	376	352						364	364
9:00 AM	294	315						305	305
10:00 AM	338	316						327	327
11:00 AM	341	313						327	327
12:00 PM	343	358						351	351
1:00 PM	357	347						352	352
2:00 PM	373	374						374	374
3:00 PM	372	381						377	377
4:00 PM	406	395						401	401
5:00 PM	410	389						400	400
6:00 PM	332	400						366	366
7:00 PM	247	281						264	264
8:00 PM	216	231						224	224
9:00 PM	181	215						198	198
10:00 PM	129	144						137	137
11:00 PM	68	67						68	68
Total	5482	5621	0	0	0	0	0		5552
24HrTotal	5482		5621						5552
AM Pk Hr	8:00	7:00							
AM Peak	376	364						370	
PM Pk Hr	5:00	6:00							
PM Peak	410	400						405	
% Peak Hr	7.48%	7.12%						7.00%	
% Peak Hr		7.48%	7.12%					7.30%	

Massachusetts Highway Department

R28124 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28124	Type:	SPOT
Located On:	RAMP-RT 124 TO RT 6 EB	:	Route 6 EB on ramp from Route 124
Direction	RAMP		
Community:	Harwich	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	6	3						5	5
1:00 AM	3	3						3	3
2:00 AM	3	5						4	4
3:00 AM	4	2						3	3
4:00 AM	7	8						8	8
5:00 AM	23	28						26	26
6:00 AM	63	67						65	65
7:00 AM	161	149						155	155
8:00 AM	164	170						167	167
9:00 AM	145	131						138	138
10:00 AM	151	168						160	160
11:00 AM	164	198						181	181
12:00 PM	149	145						147	147
1:00 PM	144	136						140	140
2:00 PM	149	110						130	130
3:00 PM	129	130						130	130
4:00 PM	149	166						158	158
5:00 PM	120	105						113	113
6:00 PM	77	84						81	81
7:00 PM	50	53						52	52
8:00 PM	38	52						45	45
9:00 PM	24	42						33	33
10:00 PM	24	19						22	22
11:00 PM	14	6						10	10
Total	1961	1980	0	0	0	0	0		1971
24HrTotal	1961	1980						1971	
AM Pk Hr	8:00	11:00							
AM Peak	164	198						181	
PM Pk Hr	12:00	4:00							
PM Peak	149	166						158	
% Peak Hr	8.36%	10.00%						9.00%	
% Peak Hr	8.36%	10.00%						9.18%	

Massachusetts Highway Department

R28125 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28125
Located On: RAMP-RT 6 EB TO RT 137
Direction: RAMP
Community: Harwich
AADT:

Type: SPOT
: Route 6 EB off ramp to Route 137
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	37	60						49	49
1:00 AM	13	21						17	17
2:00 AM	9	1						5	5
3:00 AM	14	12						13	13
4:00 AM	30	17						24	24
5:00 AM	55	50						53	53
6:00 AM	203	200						202	202
7:00 AM	413	395						404	404
8:00 AM	401	406						404	404
9:00 AM	307	347						327	327
10:00 AM	347	318						333	333
11:00 AM	380	396						388	388
12:00 PM	438	381						410	410
1:00 PM	378	381						380	380
2:00 PM	443	364						404	404
3:00 PM	388	407						398	398
4:00 PM	411	434						423	423
5:00 PM	411	412						412	412
6:00 PM	267	283						275	275
7:00 PM	202	223						213	213
8:00 PM	177	188						183	183
9:00 PM	149	180						165	165
10:00 PM	120	114						117	117
11:00 PM	69	64						67	67
Total	5662	5654	0	0	0	0	0		5658
24HrTotal	5662		5654						5658
AM Pk Hr	7:00	8:00							
AM Peak	413	406						410	
PM Pk Hr	2:00	4:00							
PM Peak	443	434						439	
% Peak Hr	7.82%	7.68%						8.00%	
% Peak Hr		7.82%	7.68%					7.75%	

Massachusetts Highway Department

R28126 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28126	Type:	SPOT
Located On:	RAMP-RT 137 TO RT 6 EB	:	Route 6 EB on ramp from Route 137
Direction:	RAMP		
Community:	Harwich	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	4	37						21	21
1:00 AM	2	0						1	1
2:00 AM	4	0						2	2
3:00 AM	6	2						4	4
4:00 AM	8	8						8	8
5:00 AM	27	22						25	25
6:00 AM	69	62						66	66
7:00 AM	138	155						147	147
8:00 AM	147	172						160	160
9:00 AM	166	172						169	169
10:00 AM	169	206						188	188
11:00 AM	206	211						209	209
12:00 PM	176	170						173	173
1:00 PM	154	165						160	160
2:00 PM	153	126						140	140
3:00 PM	164	125						145	145
4:00 PM	138	159						149	149
5:00 PM	138	141						140	140
6:00 PM	88	93						91	91
7:00 PM	54	69						62	62
8:00 PM	35	35						35	35
9:00 PM	34	24						29	29
10:00 PM	26	25						26	26
11:00 PM	12	11						12	12
Total	2118	2190	0	0	0	0	0		2154
24HrTotal	2118		2190						2154
AM Pk Hr	11:00	11:00							
AM Peak	206	211						209	
PM Pk Hr	12:00	12:00							
PM Peak	176	170						173	
% Peak Hr	9.73%	9.63%						10.00%	
% Peak Hr	9.73%		9.63%						9.68%

Massachusetts Highway Department
R28131 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28131
Located On: RAMP-RT 6 WB TO RT 137
Direction: RAMP
Community: Harwich
AADT:

Type: SPOT
: Route 6 WB off ramp to Route 137
Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM		23						23	23
1:00 AM		3						3	3
2:00 AM		1						1	1
3:00 AM		1						1	1
4:00 AM		2						2	2
5:00 AM		10						10	10
6:00 AM		29						29	29
7:00 AM		63						63	63
8:00 AM		115						115	115
9:00 AM		111						111	111
10:00 AM		120						120	120
11:00 AM		122						122	122
12:00 PM		131						131	131
1:00 PM		141						141	141
2:00 PM		147						147	147
3:00 PM		191						191	191
4:00 PM		296						296	296
5:00 PM		273						273	273
6:00 PM		152						152	152
7:00 PM		97						97	97
8:00 PM		102						102	102
9:00 PM		58						58	58
10:00 PM		59						59	59
11:00 PM		34						34	34
Total	0	2281	0	0	0	0	0		2281
24HrTotal			2281					2281	
AM Pk Hr		11:00							
AM Peak		122						122	
PM Pk Hr		4:00							
PM Peak		296						296	
% Peak Hr		12.98%						13.00%	
% Peak Hr		12.98%						12.98%	

Massachusetts Highway Department
R28132 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28132
Located On:	
Direction	RAMP
Community:	Harwich
AADT:	

Type:	SPOT
:	Route 6 WB on ramp from Route 137
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	16	56						36	36
1:00 AM	15	12						14	14
2:00 AM	21	13						17	17
3:00 AM	30	13						22	22
4:00 AM	90	52						71	71
5:00 AM	177	102						140	140
6:00 AM	302	239						271	271
7:00 AM	412	403						408	408
8:00 AM	490	430						460	460
9:00 AM	479	429						454	454
10:00 AM	375	431						403	403
11:00 AM	293	402						348	348
12:00 PM	345	363						354	354
1:00 PM	353	426						390	390
2:00 PM	417	418						418	418
3:00 PM	466	448						457	457
4:00 PM	302	297						300	300
5:00 PM	275	285						280	280
6:00 PM	251	261						256	256
7:00 PM	202	201						202	202
8:00 PM	152	163						158	158
9:00 PM	98	117						108	108
10:00 PM	75	98						87	87
11:00 PM	42	40						41	41
Total	5678	5699	0	0	0	0	0		5689
24HrTotal	5678	5699						5689	
AM Pk Hr	8:00	10:00							
AM Peak	490	431						461	
PM Pk Hr	3:00	3:00							
PM Peak	466	448						457	
% Peak Hr	8.63%	7.86%						8.50%	
% Peak Hr	8.63%	7.86%						8.25%	

Massachusetts Highway Department

R28127 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28127	Type:	SPOT
Located On:	RAMP-RT 6 EB TO RT 6A	:	Route 6 EB off ramp to Route 6A
Direction:	RAMP		
Community:	Orleans	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	14	21						18	18
1:00 AM	12	6						9	9
2:00 AM	12	5						9	9
3:00 AM	17	11						14	14
4:00 AM	19	19						19	19
5:00 AM	74	74						74	74
6:00 AM	175	187						181	181
7:00 AM	389	398						394	394
8:00 AM	474	478						476	476
9:00 AM	362	373						368	368
10:00 AM	344	379						362	362
11:00 AM	356	452						404	404
12:00 PM	354	389						372	372
1:00 PM	349	374						362	362
2:00 PM	337	342						340	340
3:00 PM	373	385						379	379
4:00 PM	342	409						376	376
5:00 PM	308	345						327	327
6:00 PM	241	239						240	240
7:00 PM	169	187						178	178
8:00 PM	127	105						116	116
9:00 PM	111	105						108	108
10:00 PM	83	59						71	71
11:00 PM	30	29						30	30
Total	5072	5371	0	0	0	0	0		5222
24HrTotal	5072		5371						5222
AM Pk Hr	8:00	8:00							
AM Peak	474	478						476	
PM Pk Hr	3:00	4:00							
PM Peak	373	409						391	
% Peak Hr	9.35%	8.90%						9.00%	
% Peak Hr		9.35%	8.90%					9.12%	

Massachusetts Highway Department

R28128 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28128
Located On:	
Direction	RAMP
Community:	Orleans
AADT:	

Type:	SPOT
:	Route 6 EB on ramp from Route 6A
Period:	Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	4	29						17	17
1:00 AM	2	1						2	2
2:00 AM	2	3						3	3
3:00 AM	2	3						3	3
4:00 AM	6	3						5	5
5:00 AM	10	9						10	10
6:00 AM	40	33						37	37
7:00 AM	88	116						102	102
8:00 AM	136	140						138	138
9:00 AM	151	178						165	165
10:00 AM	146	169						158	158
11:00 AM	192	168						180	180
12:00 PM	163	156						160	160
1:00 PM	145	138						142	142
2:00 PM	157	113						135	135
3:00 PM	141	163						152	152
4:00 PM	157	156						157	157
5:00 PM	124	142						133	133
6:00 PM	80	97						89	89
7:00 PM	74	73						74	74
8:00 PM	41	54						48	48
9:00 PM	27	59						43	43
10:00 PM	21	30						26	26
11:00 PM	14	12						13	13
Total	1923	2045	0	0	0	0	0		1984
24HrTotal	1923	2045						1984	
AM Pk Hr	11:00	9:00							
AM Peak	192	178						185	
PM Pk Hr	12:00	3:00							
PM Peak	163	163						163	
% Peak Hr	9.98%	8.70%						9.50%	
% Peak Hr	9.98%	8.70%						9.34%	

Massachusetts Highway Department

R28129 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28129	Type:	SPOT
Located On:	RAMP-RT 6 WB TO RT 6A	:	Route 6 WB off ramp to Route 6A
Direction:	RAMP		
Community:	Orleans	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	7	10						9	9
1:00 AM	4	1						3	3
2:00 AM	1	3						2	2
3:00 AM	0	1						1	1
4:00 AM	4	3						4	4
5:00 AM	18	14						16	16
6:00 AM	26	35						31	31
7:00 AM	77	87						82	82
8:00 AM	137	134						136	136
9:00 AM	106	120						113	113
10:00 AM	113	124						119	119
11:00 AM	151	137						144	144
12:00 PM	166	168						167	167
1:00 PM	152	149						151	151
2:00 PM	165	135						150	150
3:00 PM	182	186						184	184
4:00 PM	200	196						198	198
5:00 PM	180	177						179	179
6:00 PM	132	154						143	143
7:00 PM	121	128						125	125
8:00 PM	81	98						90	90
9:00 PM	66	86						76	76
10:00 PM	40	56						48	48
11:00 PM	22	36						29	29
Total	2151	2238	0	0	0	0	0		2195
24HrTotal	2151		2238						2195
AM Pk Hr	11:00	11:00							
AM Peak	151	137						144	
PM Pk Hr	4:00	4:00							
PM Peak	200	196						198	
% Peak Hr	9.30%	8.76%						9.00%	
% Peak Hr	9.30%		8.76%						9.03%

Massachusetts Highway Department

R28130 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28130	Type:	SPOT
Located On:	RAMP-RT 6A TO RT 6 WB	:	Route 6 WB on ramp from Route 6A
Direction:	RAMP		
Community:	Orleans	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM	13	35						24	24
1:00 AM	6	10						8	8
2:00 AM	12	8						10	10
3:00 AM	15	11						13	13
4:00 AM	42	26						34	34
5:00 AM	80	64						72	72
6:00 AM	130	130						130	130
7:00 AM	222	219						221	221
8:00 AM	296	303						300	300
9:00 AM	321	293						307	307
10:00 AM	326	309						318	318
11:00 AM	340	352						346	346
12:00 PM	334	321						328	328
1:00 PM	351	345						348	348
2:00 PM	328	349						339	339
3:00 PM	381	401						391	391
4:00 PM	418	418						418	418
5:00 PM	356	384						370	370
6:00 PM	215	243						229	229
7:00 PM	149	223						186	186
8:00 PM	155	164						160	160
9:00 PM	118	107						113	113
10:00 PM	65	62						64	64
11:00 PM	50	39						45	45
Total	4723	4816	0	0	0	0	0		4770
24HrTotal	4723	4816						4770	
AM Pk Hr	11:00	11:00							
AM Peak	340	352						346	
PM Pk Hr	4:00	4:00							
PM Peak	418	418						418	
% Peak Hr	8.85%	8.68%						9.00%	
% Peak Hr	8.85%	8.68%						8.76%	

Massachusetts Highway Department

R28133 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID: R28133
 Located On: RAMP-RT 6 WB TO RT 124
 Direction: RAMP
 Community: Harwich
 AADT:

Type: SPOT
 : Route 6 WB off ramp to Route 124
 Period: Mon 08/13/2018 - Sun 08/19/2018

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				10	13	14		12	12
1:00 AM				8	6	5		6	7
2:00 AM				7	5	6		6	6
3:00 AM				2	4	3		3	3
4:00 AM				6	7	5		6	7
5:00 AM				11	12	4		9	12
6:00 AM				37	50	11		33	44
7:00 AM				84	64	26		58	74
8:00 AM				107	78	43		76	93
9:00 AM				92	80	64		79	86
10:00 AM				82	111	74		89	97
11:00 AM				136	172	104		137	154
12:00 PM				98	136	119		118	117
1:00 PM				107	117	99		108	112
2:00 PM				111	147	97		118	129
3:00 PM				151	135	115		134	143
4:00 PM				119	156	92		122	138
5:00 PM				178	146	113		146	162
6:00 PM				157	125	135		139	141
7:00 PM				69	71	68		69	70
8:00 PM				110	82	54		82	96
9:00 PM				86	64	49		66	75
10:00 PM				72	56	46		58	64
11:00 PM				28	55	37		40	42
Total	0	0	0	1868	1892	1383	0		1880
24HrTotal				1868	1892	1383		1714	
AM Pk Hr				11:00	11:00	11:00			
AM Peak				136	172	104		137	
PM Pk Hr				5:00	4:00	6:00			
PM Peak				178	156	135		156	
% Peak Hr				9.53%	9.09%	9.76%		9.67%	
% Peak Hr				9.53%	9.09%	9.76%		9.46%	

Massachusetts Highway Department

R28134 Weekly Volume Report - Mon 08/13/2018 - Sun 08/19/2018

Location ID:	R28134	Type:	SPOT
Located On:	RAMP-RT 124 TO RT 6 WB	:	Route 6 WB on ramp from Route 124
Direction	RAMP		
Community:	Harwich	Period:	Mon 08/13/2018 - Sun 08/19/2018
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Wkday Avg
12:00 AM				19	29	35		28	24
1:00 AM				18	17	18		18	18
2:00 AM				14	5	12		10	10
3:00 AM				16	20	15		17	18
4:00 AM				35	38	27		33	37
5:00 AM				79	75	66		73	77
6:00 AM				210	191	148		183	201
7:00 AM				347	315	281		314	331
8:00 AM				382	392	442		405	387
9:00 AM				382	390	562		445	386
10:00 AM				395	403	516		438	399
11:00 AM				358	432	543		444	395
12:00 PM				339	322	523		395	331
1:00 PM				330	394	361		362	362
2:00 PM				350	389	379		373	370
3:00 PM				409	444	372		408	427
4:00 PM				476	470	331		426	473
5:00 PM				514	498	370		461	506
6:00 PM				358	344	344		349	351
7:00 PM				223	243	173		213	233
8:00 PM				185	195	156		179	190
9:00 PM				135	122	125		127	129
10:00 PM				103	103	115		107	103
11:00 PM				57	72	69		66	65
Total	0	0	0	5734	5903	5983	0		5819
24HrTotal				5734	5903	5983		5873	
AM Pk Hr				10:00	11:00	9:00			
AM Peak				395	432	562		463	
PM Pk Hr				5:00	5:00	12:00			
PM Peak				514	498	523		512	
% Peak Hr				8.96%	8.44%	9.39%		8.67%	
% Peak Hr				8.96%	8.44%	9.39%		8.93%	