



national park service

**The Road Inventory
of
Cape Cod National Seashore
CACO – 1730
Cycle 4**



**Prepared By:
Federal Highway Administration
Road Inventory Program
Cycle 4**



Cape Cod National Seashore in Massachusetts





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Cape Cod National Seashore



Section 1 **Introduction**

INTRODUCTION

Background: In 1976, the National Park Service (NPS) and the Federal Highway Administration (FHWA) entered into a Memorandum of Agreement (MOA), establishing the Road Inventory Program (RIP). In 1980, the NPS and the FHWA terminated the 1976 MOA and entered into a new MOA that provided for the completion of the initial phase of the RIP. The purpose of the RIP, per the 1980 MOA was to maintain and update RIP data in order to develop long-range costs and programs to bring National Park Service (NPS) roads up to, or to maintain, designated standards, and establish a maintenance management program.

The FHWA's Federal Lands Highway (FLH) was assigned the task of identifying condition deficiencies and corrective priorities along with associated corrective costs, inventorying maintenance features (e.g., culverts, signs, guardrail, etc.), summarizing the data and findings in a report and providing a photographic record of the road system.

The FLH completed the initial phase of the RIP in the early 1980's. As a result of this effort, each park received a RIP book, also known as the "Brown Book," that included the information collected during this initial RIP phase.

In an effort to maintain and update the RIP data, a cyclical data collection and reporting process was reestablished in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 was collected in 44 large parks from 1994 to 1996. This data was found to be unusable for comparison to future cycles. Cycle 2 data was collected from March 1997 to January 2001 in 79 large parks and 5 small parks containing 4,874 route miles. Each park received a copy of a Cycle 2 RIP Report, also known as the "Blue Book". Cycle 3 was completed from 2001 through 2004, and included data collection in all parks that contain pavement.

Since 1984, the RIP Program has been funded through the Federal Lands Highway Program's Park Roads and Parkways (PRP) Program. Currently, the NPS Washington Headquarters' Park Facility Management Division is responsible for coordinating the RIP program with the FLH. The FLH Washington office coordinates policy and prepares national reports and needs assessment studies for congress.

In 1998, the Transportation Equity Act for the 21st Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) which requires the Federal Highway Administration and the National Park Service, to develop, by rule, a Pavement Management System (PMS) for the park roads and parkways serving the National Park System. As a result of the requirements in TEA-21, the NPS and FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS

will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

Key information included in the RIP is the mileage inventory and condition assessments accomplished by the RIP Program. The mileage and condition data are used in the current allocation formula of PRP Program funds.

RIP Cycle 4: Cycle 4 data collection was initiated in spring 2006, where 86 large parks, consisting of 5,553 route miles and 6,232 paved parking areas, were selected as a representative sample of the entire NPS paved road network. Cycle 4 is scheduled for completion in spring 2009 and will serve the PMS in further development of its pavement preservation techniques.

In the Cycle 4 Reports, a general condition rating of excellent, good, fair and poor is ascribed to each one-mile section of paved roadway, and to each paved parking area. This condition rating system provides a realistic means of assessing the general funding needs for road improvements. Along with these descriptive condition ratings, a numerical rating between 0 and 100 is ascribed to each mile of road and to each parking area. This numerical rating is called a Pavement Condition Rating (PCR). The PCR rating system is described in Section 10 of this report.

All of the fieldwork required for obtaining inventory, condition, and maintenance feature information is coordinated with each park and the regional offices to ensure that the information in the RIP reports is accurate.

The FLH is responsible for all the data presented in this report. Anyone having questions or comments regarding the contents of this report is encouraged to contact the FHWA RIP Coordinator. It is our aim to provide exceptional customer satisfaction in our delivery of the RIP program.

The FHWA RIP Team

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Cape Cod National Seashore



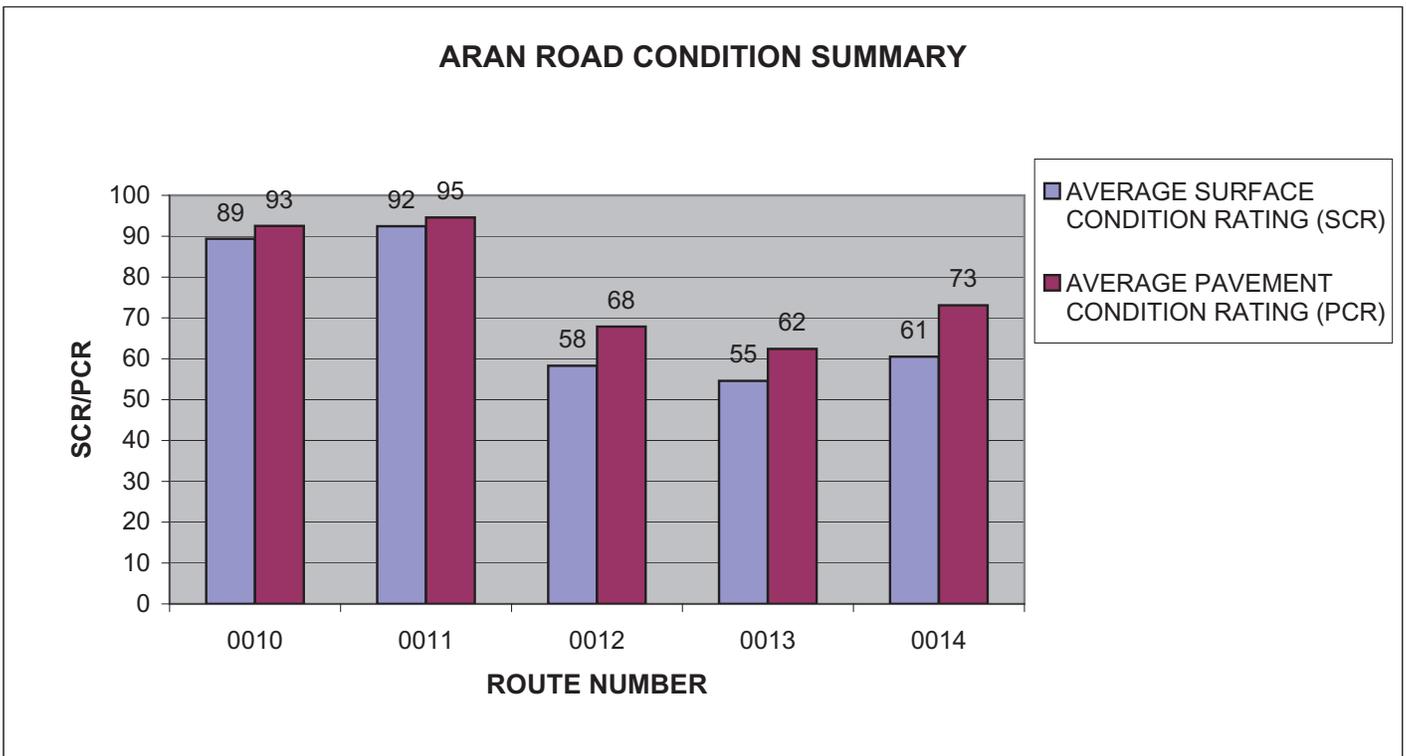
Section 2 **Park Summary Information**

CACO: PAVED ROUTE MILES AND PERCENTAGES BY FUNCTIONAL CLASS AND PCR

F.C.	Pavement Condition Rating (PCR)								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	3.82	25.67%	4.86	32.66%	1.22	8.20%	1.56	10.48%	11.46
2									
3	1.43	9.61%	0.66	4.44%	0.23	1.55%	0.06	0.40%	2.38
4	0.25	1.68%							0.25
5	0.44	2.96%	0.16	1.08%					0.60
6	0.19	1.28%							0.19
7									
8									
Totals	6.13	41.19%	5.68	38.17%	1.45	9.74%	1.62	10.89%	14.88

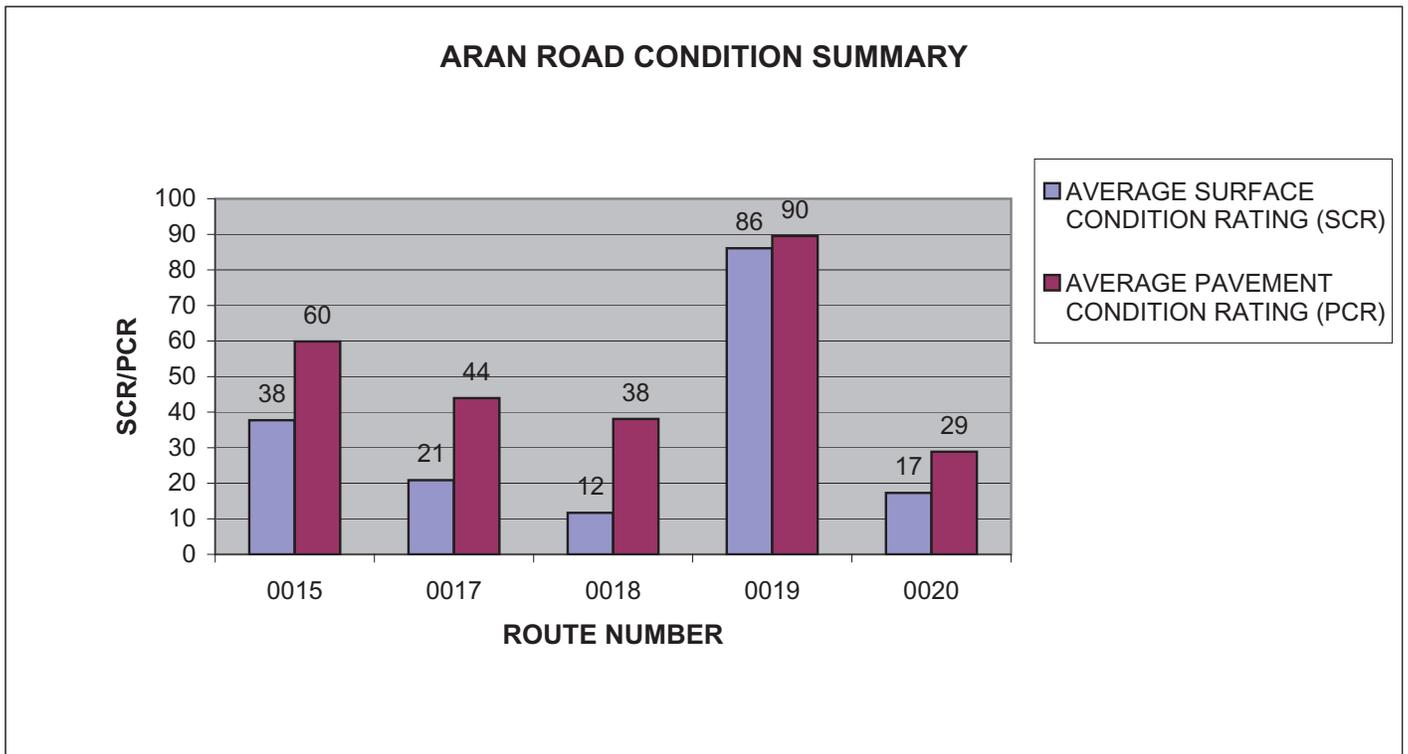
CACO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0010	DOANE ROAD	1	1.01	ASPHALT	89	93
0011	CABLE ROAD	1	0.93	ASPHALT	92	95
0012	MARCONI BEACH ROAD	1	1.62	ASPHALT	58	68
0013	MARCONI SITE ROAD	1	0.98	ASPHALT	55	62
0014	RACE POINT ROAD	1	1.94	ASPHALT	61	73



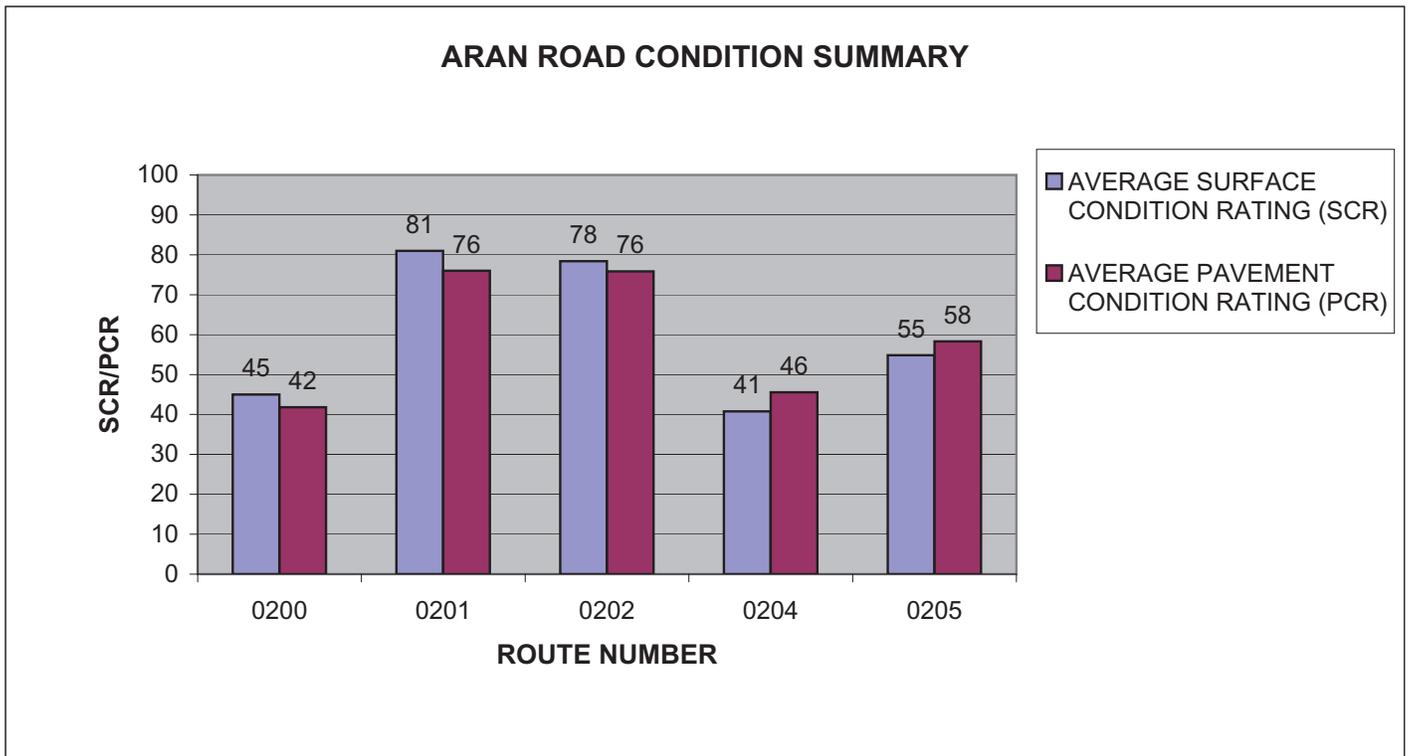
CACO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0015	PROVINCE LANDS ROAD	1	2.32	ASPHALT	38	60
0017	MOORS ROAD	1	0.91	ASPHALT	21	44
0018	STATE ROUTE 6	1	0.35	ASPHALT	12	38
0019	NAUSET ROAD	1	0.87	ASPHALT	86	90
0020	OLD DEWLINE ROAD	1	0.53	ASPHALT	17	29



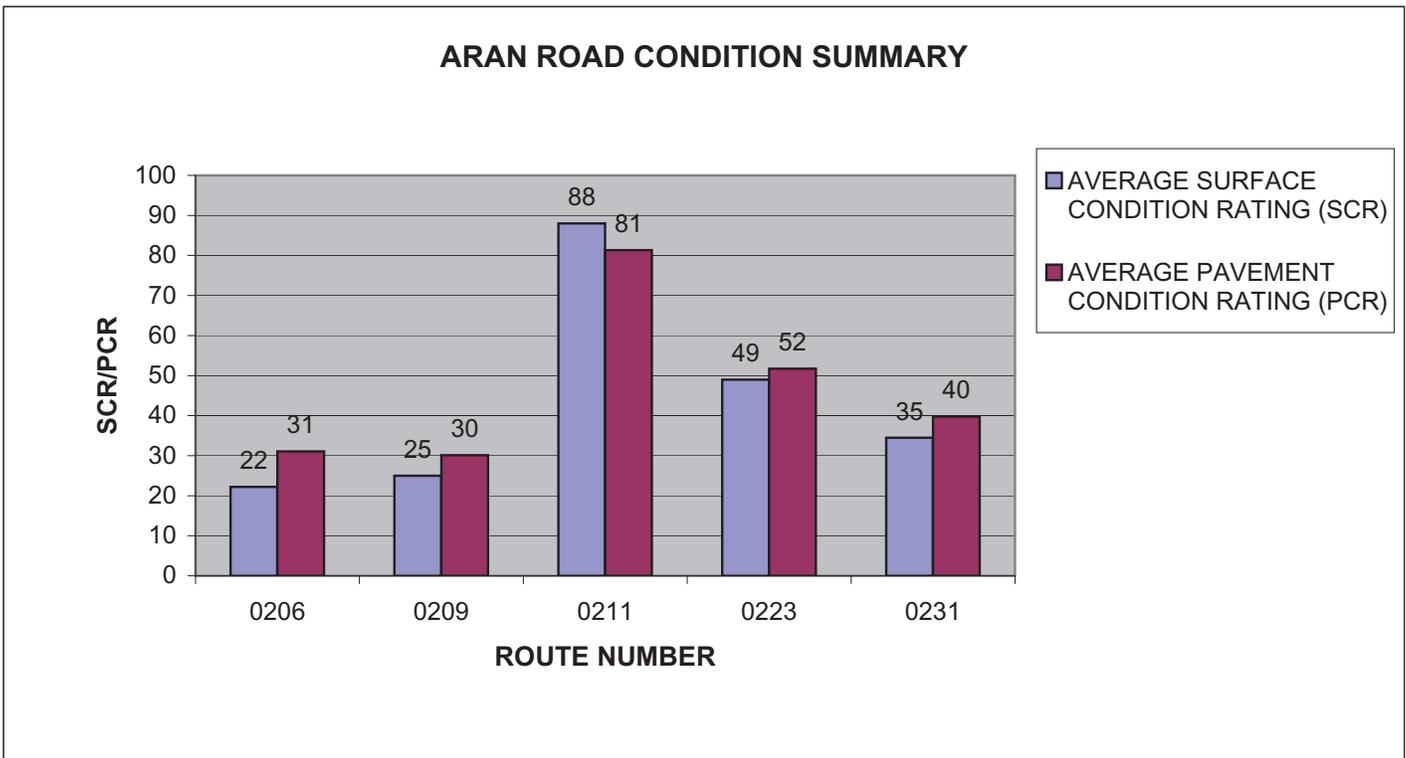
CACO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0200	FORT HILL AREA ROAD	3	0.3	ASPHALT	45	42
0201	DOANE ROCK PICNIC AREA ROAD	3	0.14	ASPHALT	81	76
0202	TOMAHAWK TRAIL	3	0.59	ASPHALT	78	76
0204	MARCONI EMPLOYEE PARKING ROAD	5	0.13	ASPHALT	41	46
0205	HEAD OF THE MEADOW BEACH ROAD	3	0.12	ASPHALT	55	58



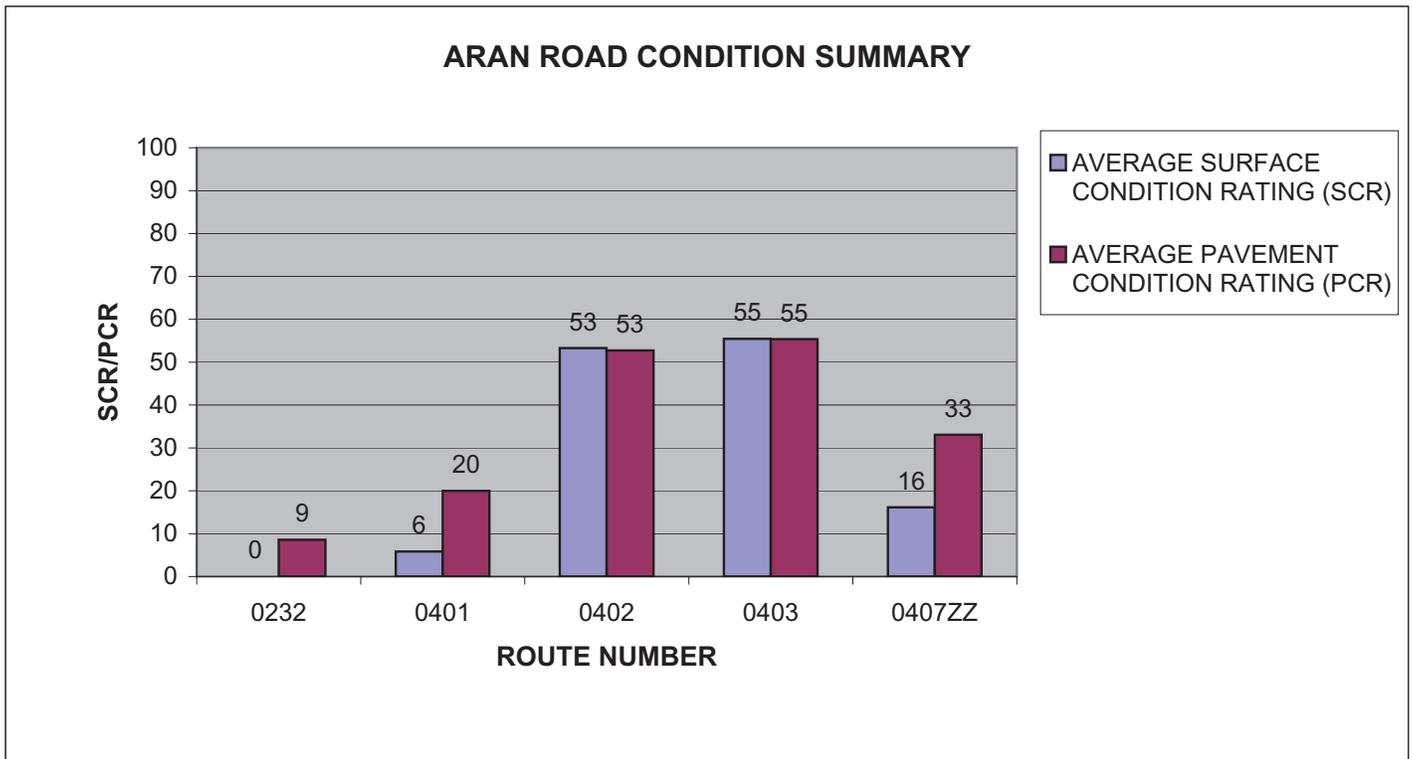
CACO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0206	PILGRIM HEIGHTS ROAD	3	0.87	ASPHALT	22	31
0209	RACE POINT COAST GUARD STATION ROAD	3	0.16	ASPHALT	25	30
0211	NAUSET LIGHT BEACH ACCESS ROAD	3	0.06	ASPHALT	88	81
0223	MACPHERSON WAY	3	0.14	ASPHALT	49	52
0231	NAC LABORATORY ACCESS ROAD	5	0.08	ASPHALT	35	40



CACO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0232	NTAFS ACCESS ROAD	6	0.19	ASPHALT	0	9
0401	B-WELL ROAD	4	0.25	ASPHALT	6	20
0402	MARCONI RESIDENCE ROAD	5	0.14	ASPHALT	53	53
0403	MARCONI MAINTENANCE AREA ROAD	5	0.11	ASPHALT	55	55
0407ZZ	PROVINCE LANDS RESIDENCE ROADS	5	0.19	ASPHALT	16	33

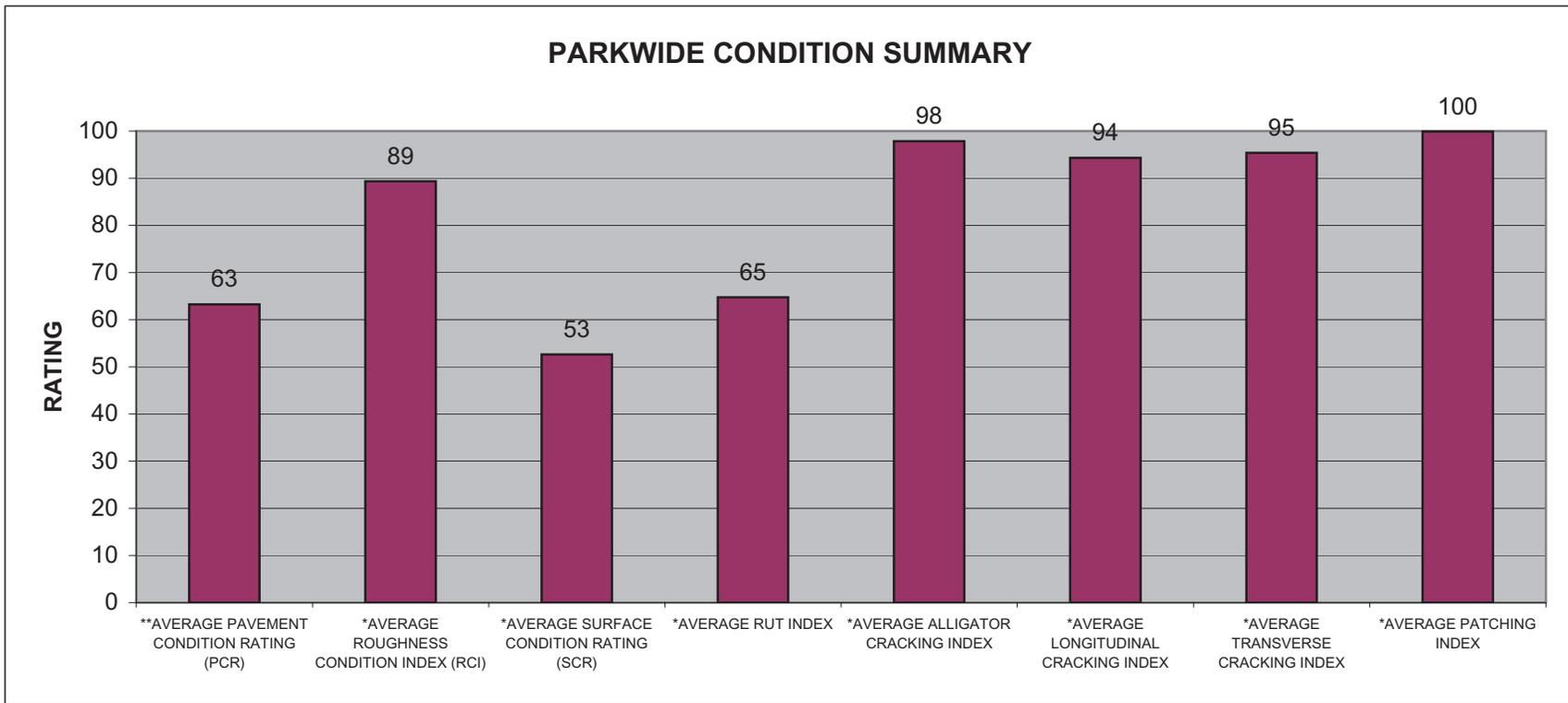


CACO: PARKWIDE CONDITION SUMMARY

**AVERAGE PAVEMENT CONDITION RATING (PCR)	*AVERAGE ROUGHNESS CONDITION INDEX (RCI)	*AVERAGE SURFACE CONDITION RATING (SCR)	*AVERAGE RUT INDEX	*AVERAGE ALLIGATOR CRACKING INDEX	*AVERAGE LONGITUDINAL CRACKING INDEX	*AVERAGE TRANSVERSE CRACKING INDEX	*AVERAGE PATCHING INDEX
63	89	53	65	98	94	95	100

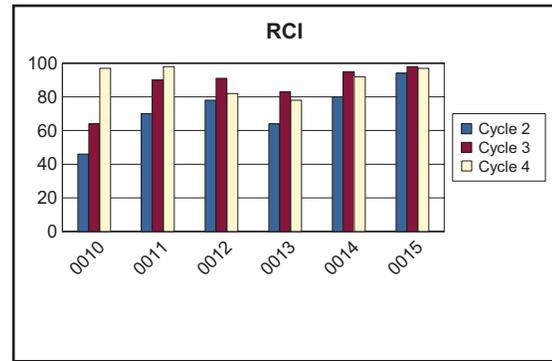
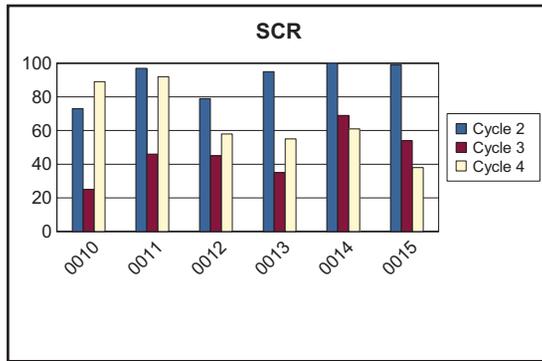
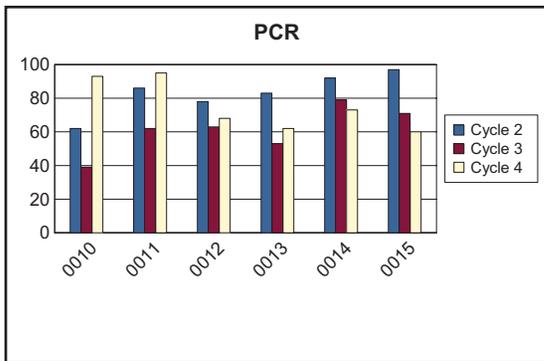
** PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.

* Index values are based on ARAN-driven roads only.



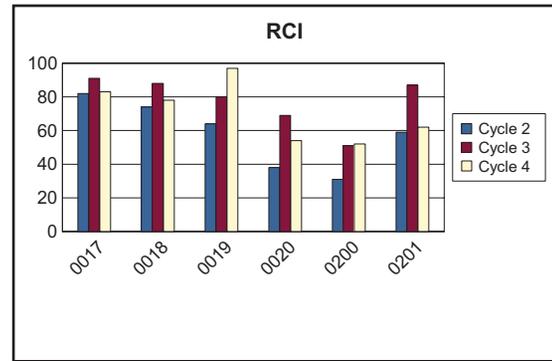
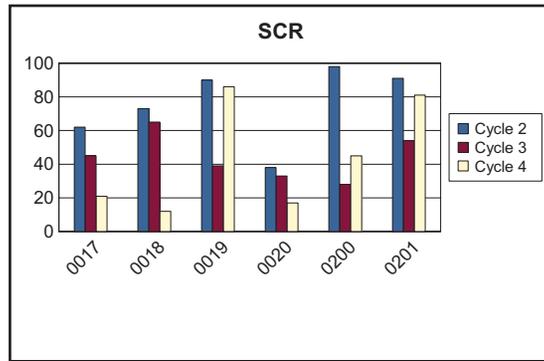
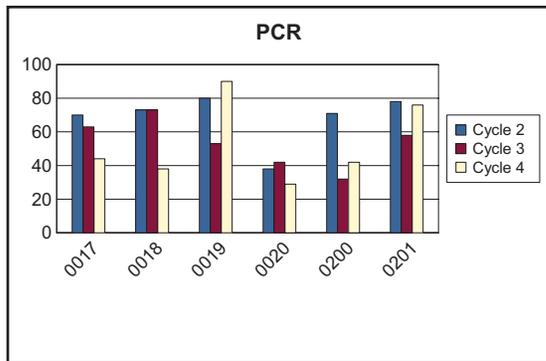
CACO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0010	1.01	0.00	1.01	62	39	93	+138%	73	25	89	+256%	46	64	97	+52%	
0011	0.93	0.00	0.93	86	62	95	+53%	97	46	92	+100%	70	90	98	+9%	
0012	1.62	0.00	1.62	78	63	68	+8%	79	45	58	+29%	78	91	82	-10%	
0013	0.98	0.00	0.98	83	53	62	+17%	95	35	55	+57%	64	83	78	-6%	
0014	1.96	0.00	1.96	92	79	73	-8%	100	69	61	-12%	80	95	92	-3%	
0015	2.32	0.00	2.32	97	71	60	-15%	99	54	38	-30%	94	98	97	-1%	



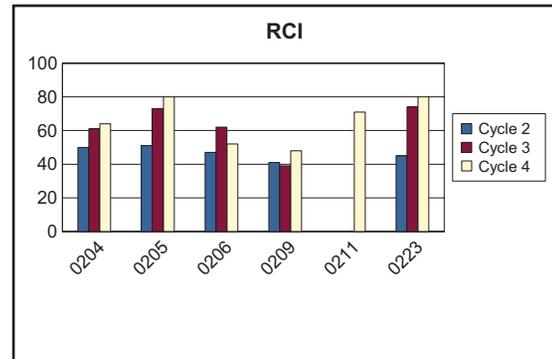
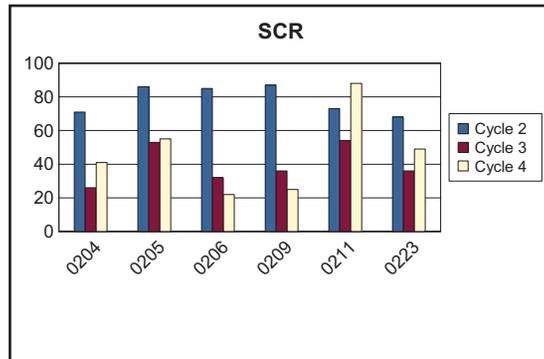
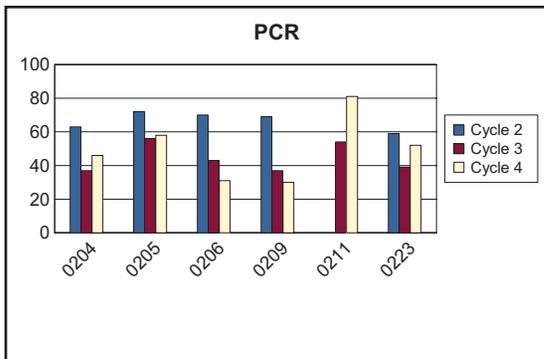
CACO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0017	0.93	0.00	0.93	70	63	44	-30%	62	45	21	-53%	82	91	83	-9%	
0018	0.35	0.00	0.35	73	73	38	-48%	73	65	12	-82%	74	88	78	-11%	
0019	2.88	0.00	2.88	80	53	90	+70%	90	39	86	+121%	64	80	97	+21%	
0020	0.53	0.00	0.53	38	42	29	-31%	38	33	17	-48%	38	69	54	-22%	
0200	0.30	0.00	0.30	71	32	42	+31%	98	28	45	+61%	31	51	52	+2%	
0201	0.14	0.00	0.14	78	58	76	+31%	91	54	81	+50%	59	87	62	-29%	



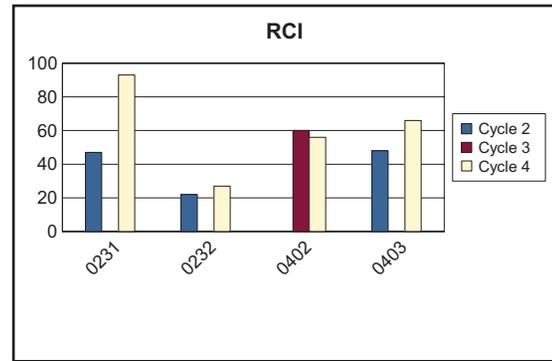
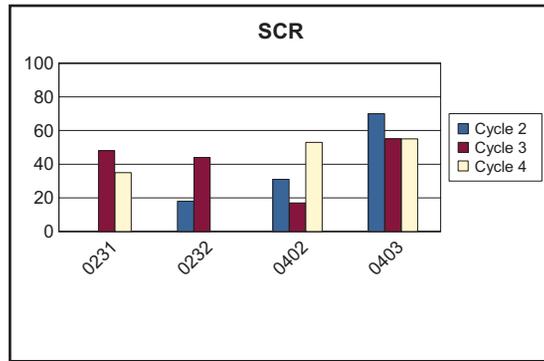
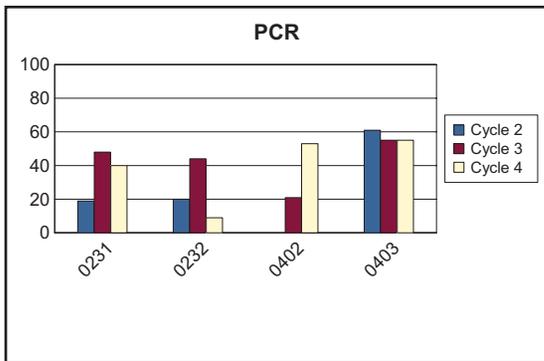
CACO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0204	0.17	0.00	0.17	63	37	46	+24%	71	26	41	+58%	50	61	64	+5%	
0205	0.12	0.00	0.12	72	56	58	+4%	86	53	55	+4%	51	73	80	+10%	
0206	0.87	0.00	0.87	70	43	31	-28%	85	32	22	-31%	47	62	52	-16%	
0209	0.16	0.00	0.16	69	37	30	-19%	87	36	25	-31%	41	39	48	+23%	
0211	0.06	0.00	0.06	N/A	54	81	+50%	73	54	88	+63%	N/A	N/A	71	N/A	No RCI collected in Cycle 3.
0223	0.14	0.00	0.14	59	39	52	+33%	68	36	49	+36%	45	74	80	+8%	



CACO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0231	0.12	0.00	0.12	19	48	40	-17%	0	48	35	-27%	47	N/A	93	N/A	No RCI collected in Cycle 3.
0232	0.19	0.00	0.19	20	44	9	-80%	18	44	0	-100%	22	N/A	27	N/A	No RCI collected in Cycle 3.
0402	0.14	0.00	0.14	N/A	21	53	+152%	31	17	53	+212%	N/A	60	56	-7%	
0403	0.12	0.00	0.12	61	55	55	0%	70	55	55	0%	48	N/A	66	N/A	No RCI collected in Cycle 3.

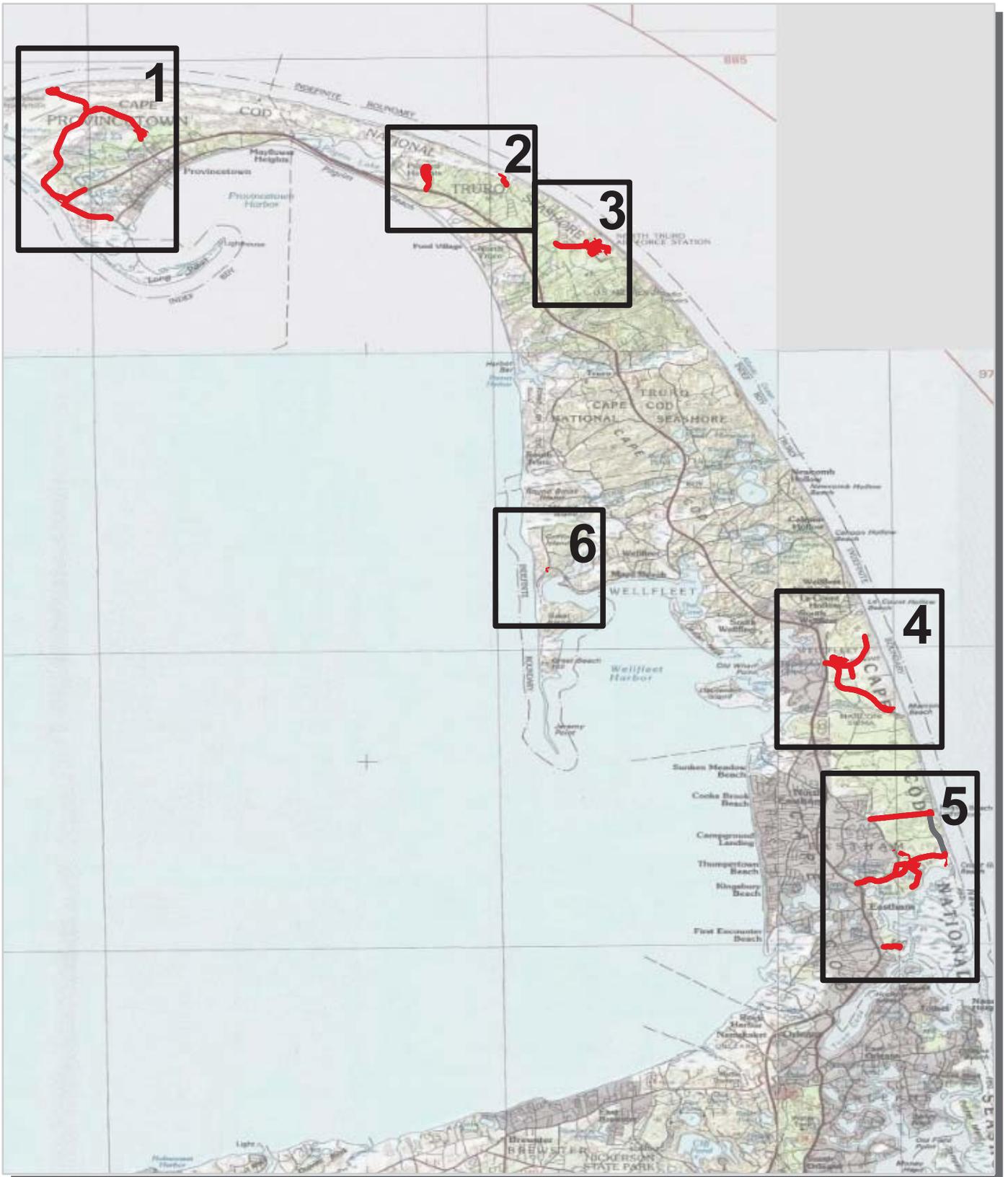


Cape Cod National Seashore



Section 3 **Park Route Location / Condition** **Maps**

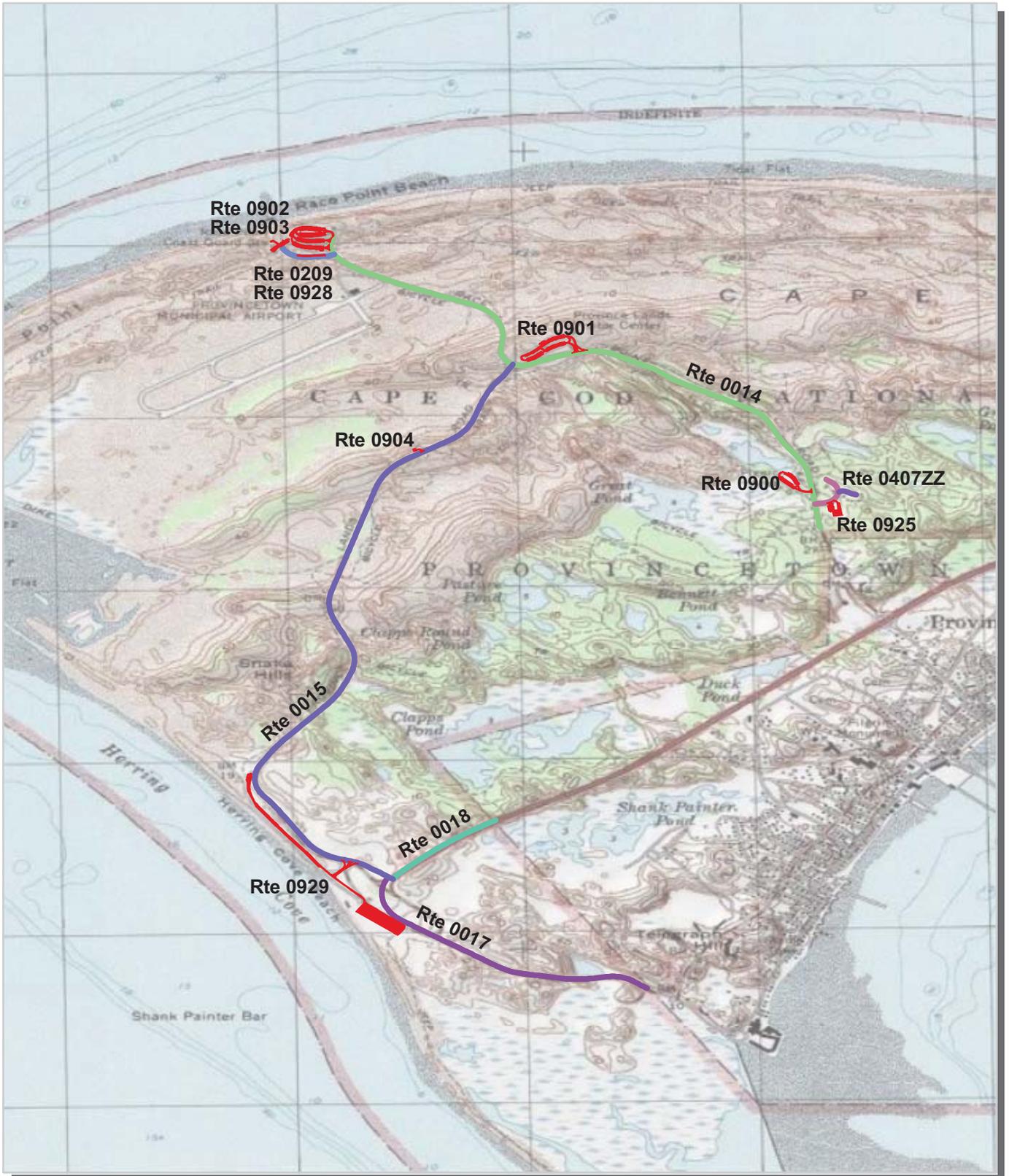
Cape Cod National Seashore Route Location Map Key Map



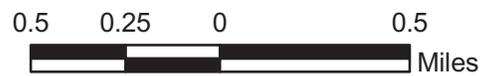
 Park Owned Routes



Cape Cod National Seashore Route Location Map Area 1



Unique colors used to differentiate routes



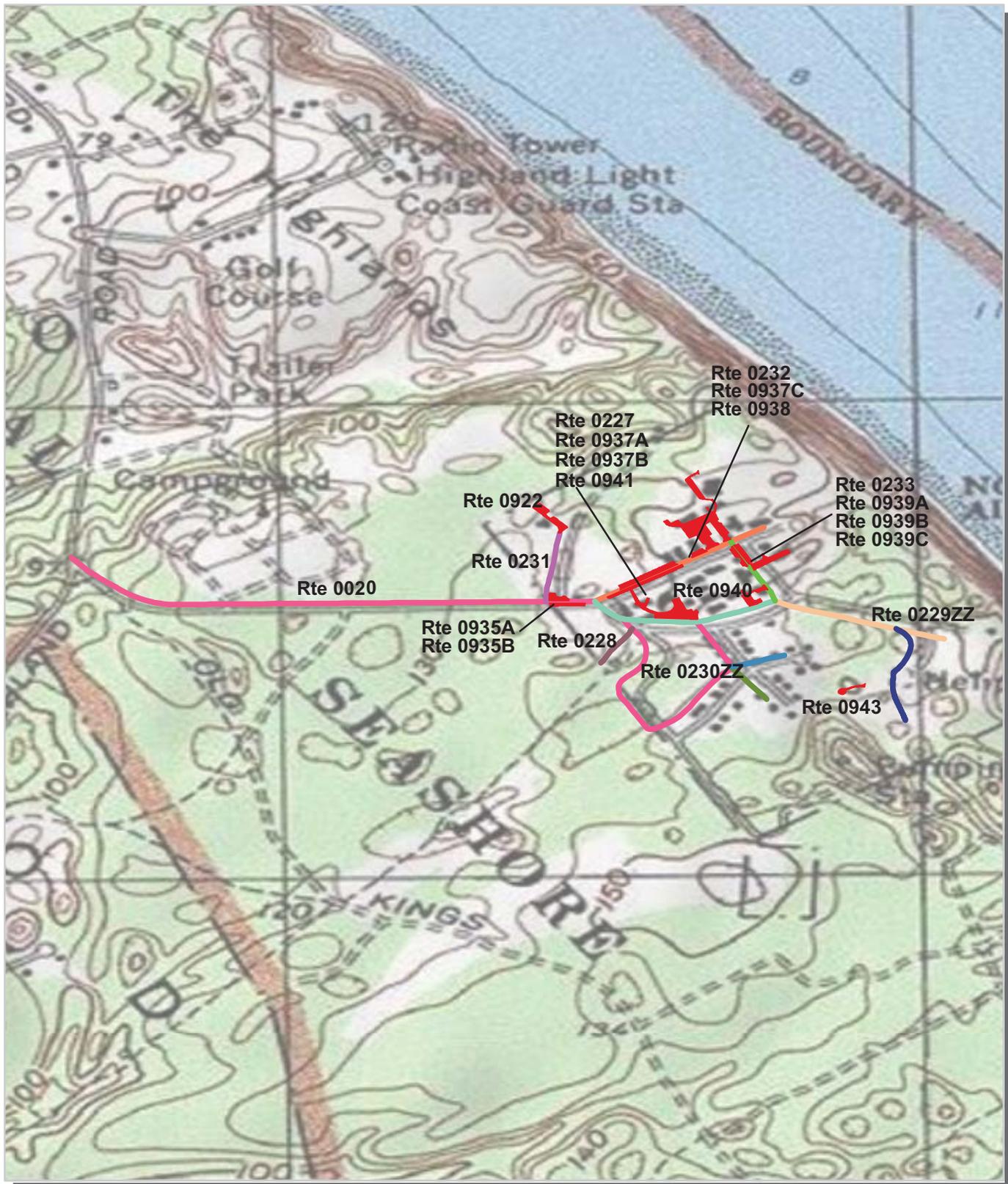
Cape Cod National Seashore Route Location Map Area 2



Unique colors used to differentiate routes



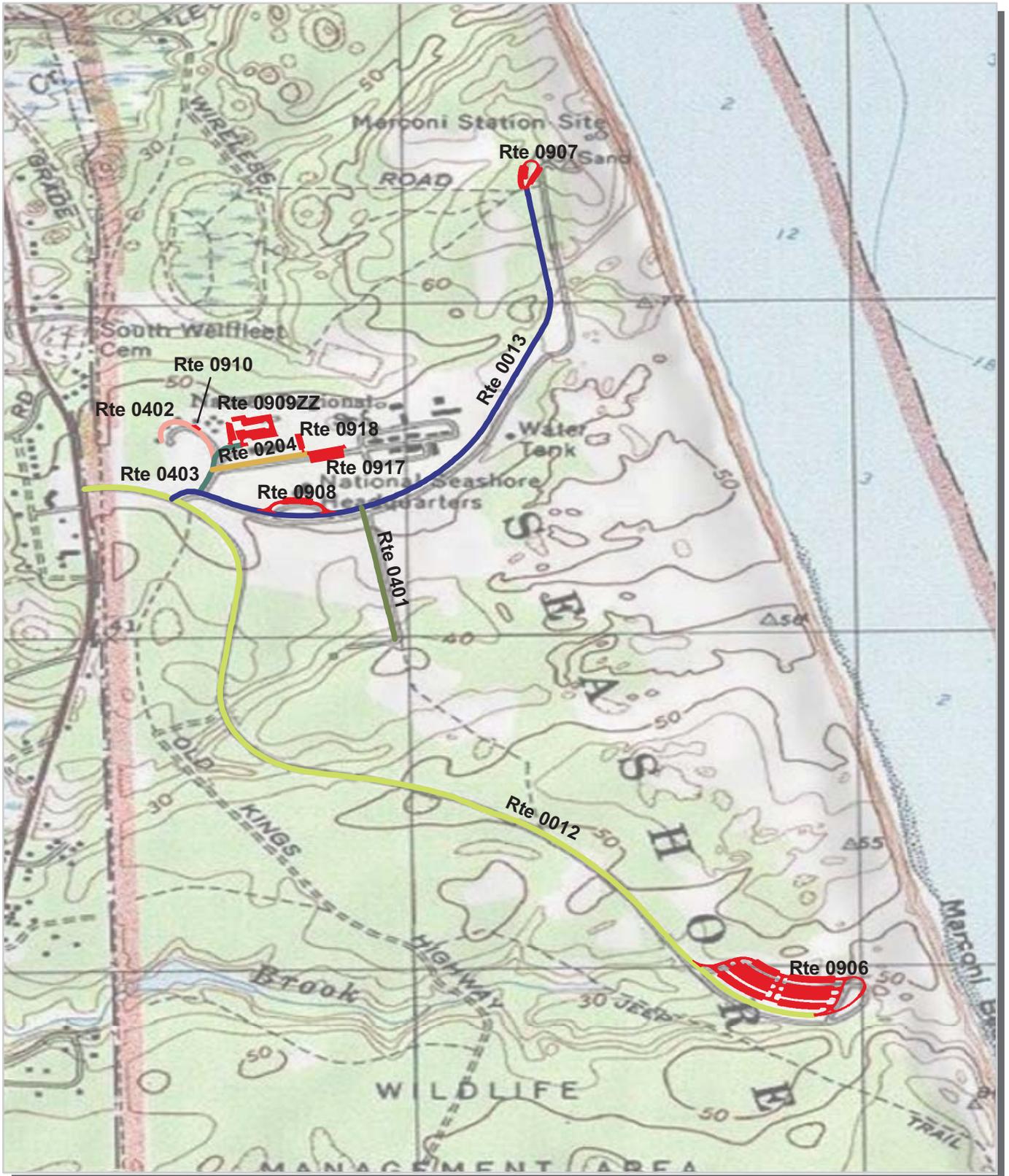
Cape Cod National Seashore Route Location Map Area 3



Unique colors used to differentiate routes



Cape Cod National Seashore Route Location Map Area 4



Unique colors used to differentiate routes



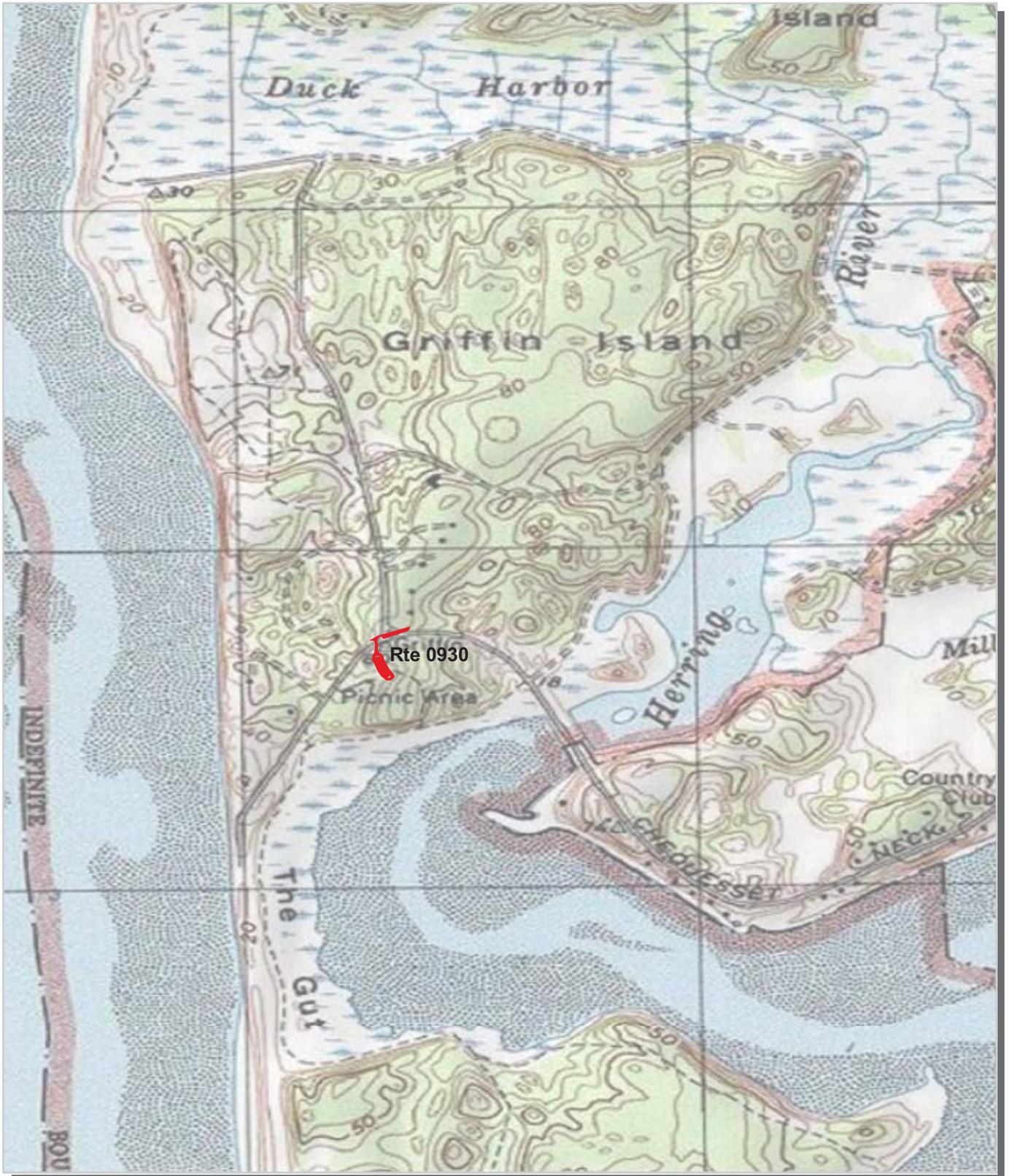
Cape Cod National Seashore Route Location Map Area 5



Unique colors used to differentiate routes



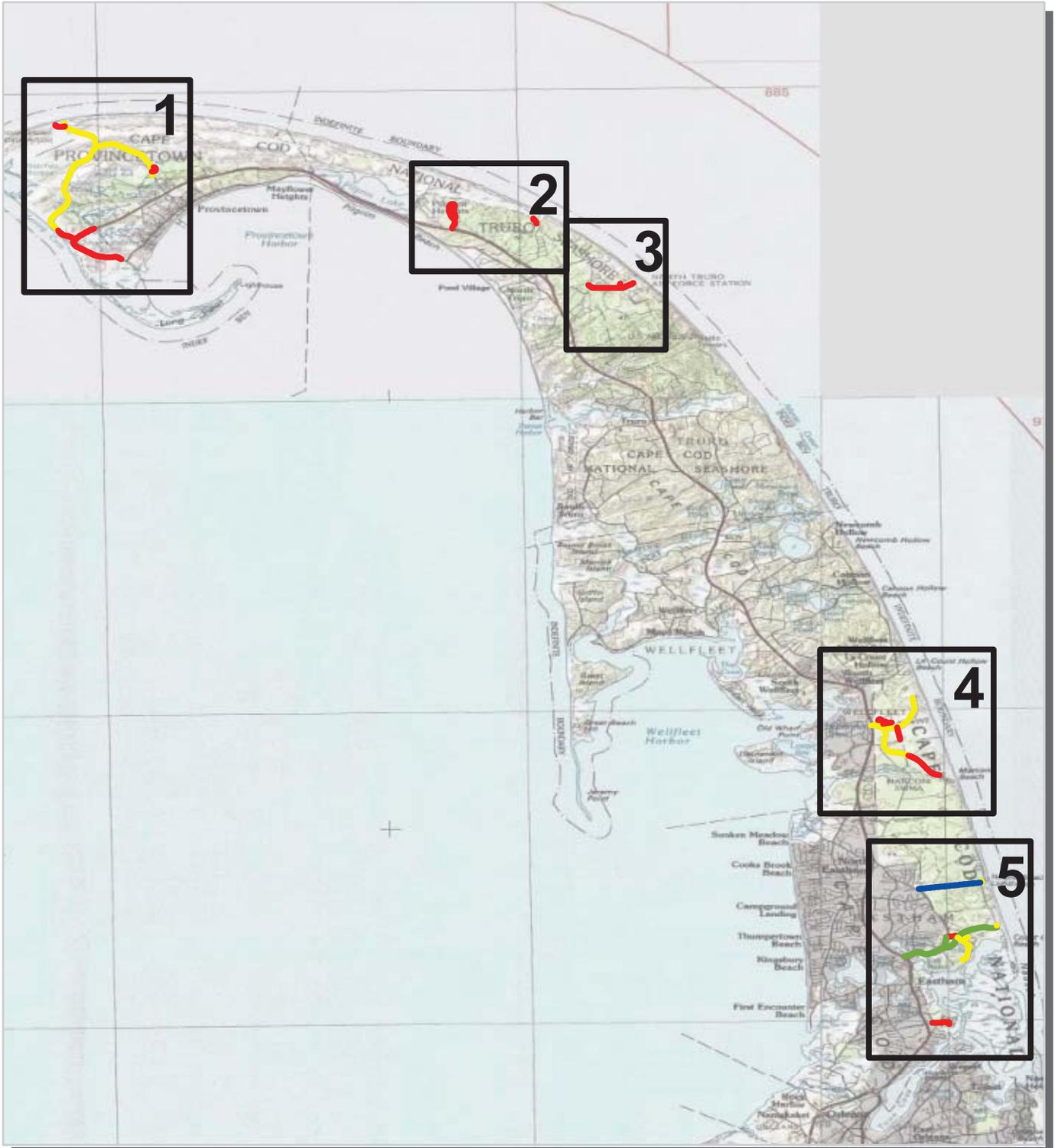
Cape Cod National Seashore
Route Location Map
Area 6



Unique colors used to differentiate routes



Cape Cod National Seashore Route Condition Map PCR - Mile by Mile Key Map

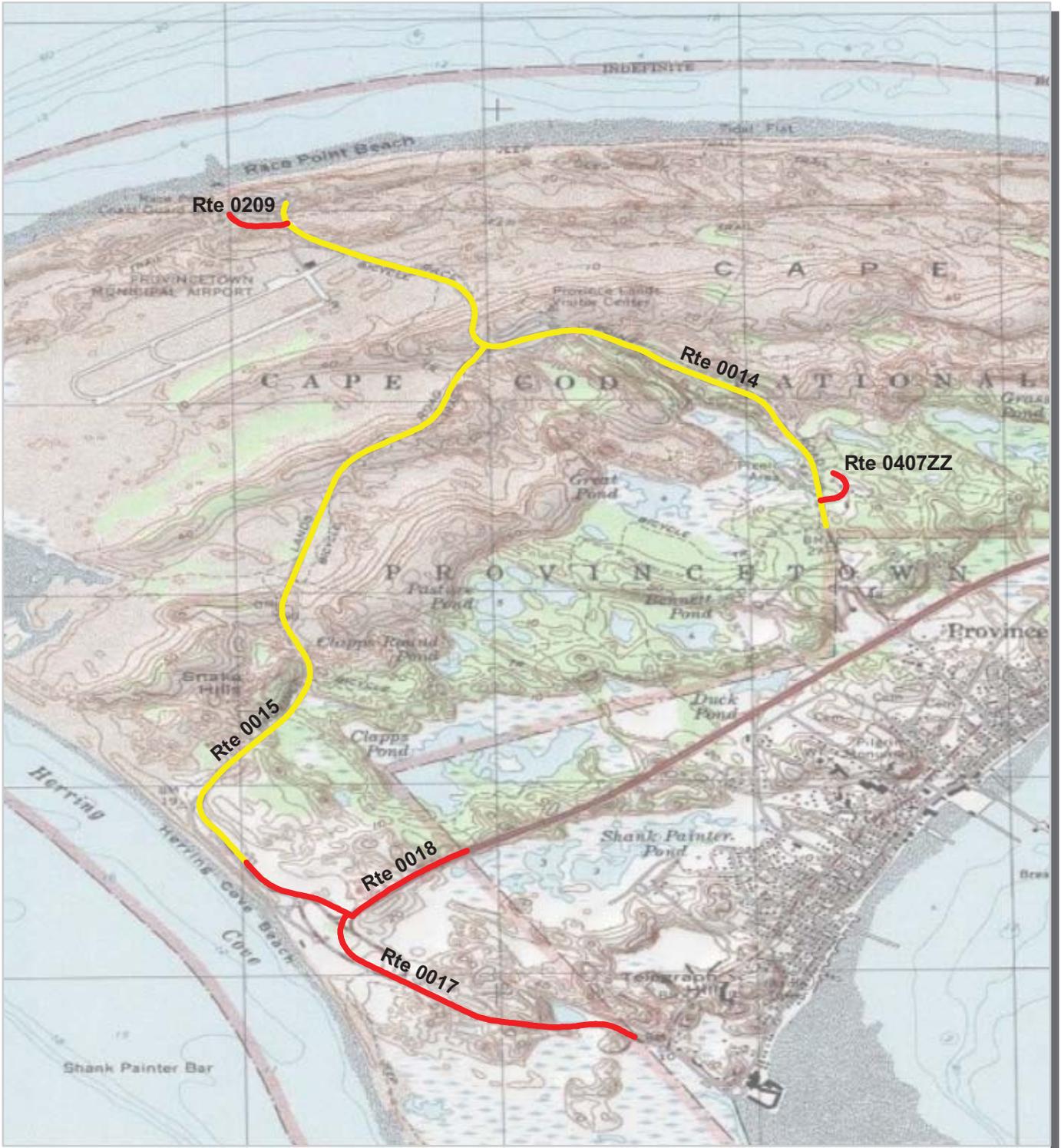


PCR	Poor (≤60)	Fair (61 - 84)	Good (85 - 94)	Excellent (95 - 100)	No Data

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Cape Cod National Seashore Route Condition Map PCR - Mile by Mile Area 1



PCR	Poor		Fair		Good		Excellent		No Data	
	(<=60)		(61 - 84)	(85 - 94)	(95 - 100)					

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Cape Cod National Seashore Route Condition Map PCR - Mile by Mile Area 2

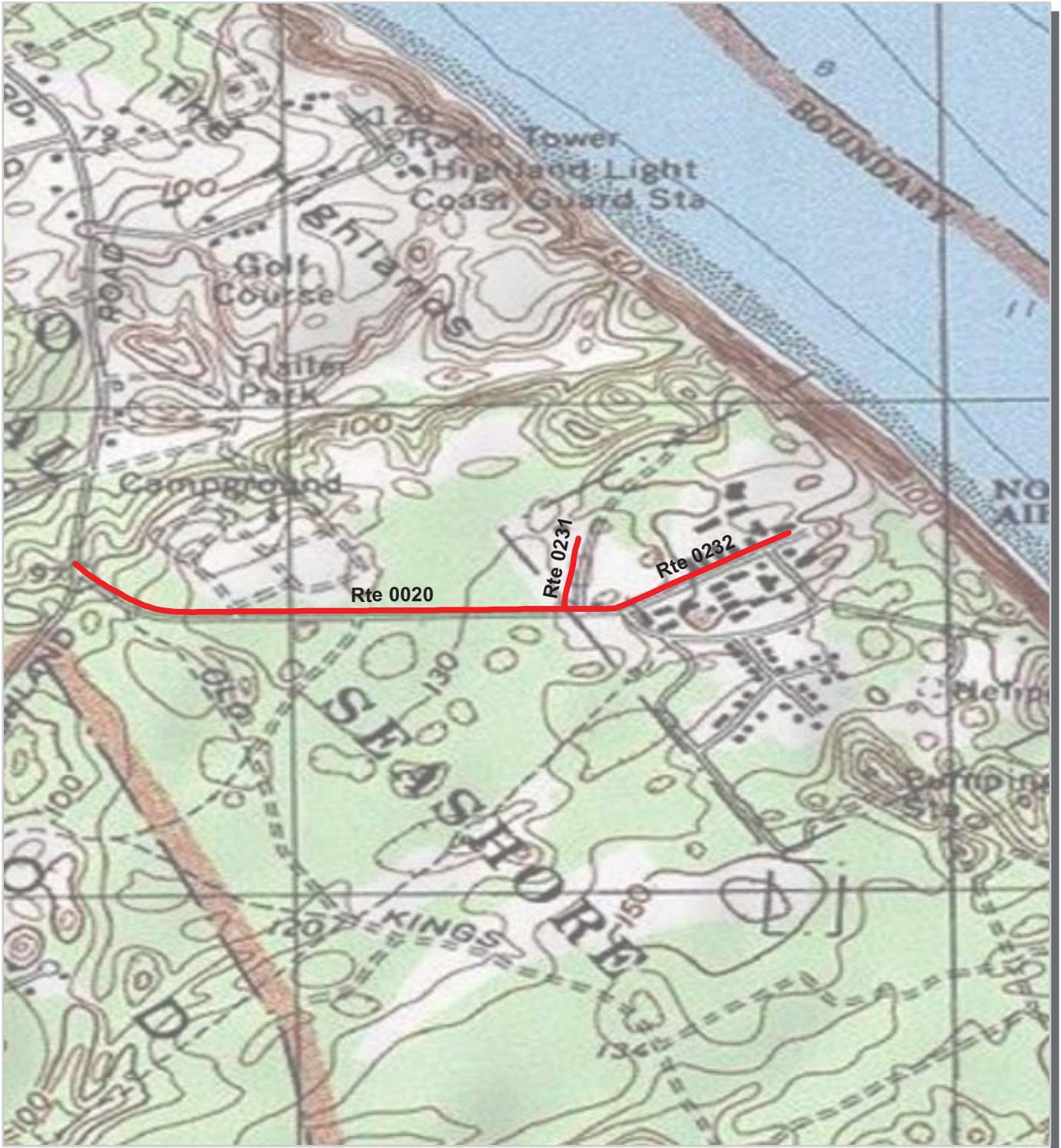


PCR	Poor	Fair	Good	Excellent	No Data
	(≤60)	(61 - 84)	(85 - 94)	(95 - 100)	

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Cape Cod National Seashore Route Condition Map PCR - Mile by Mile Area 3

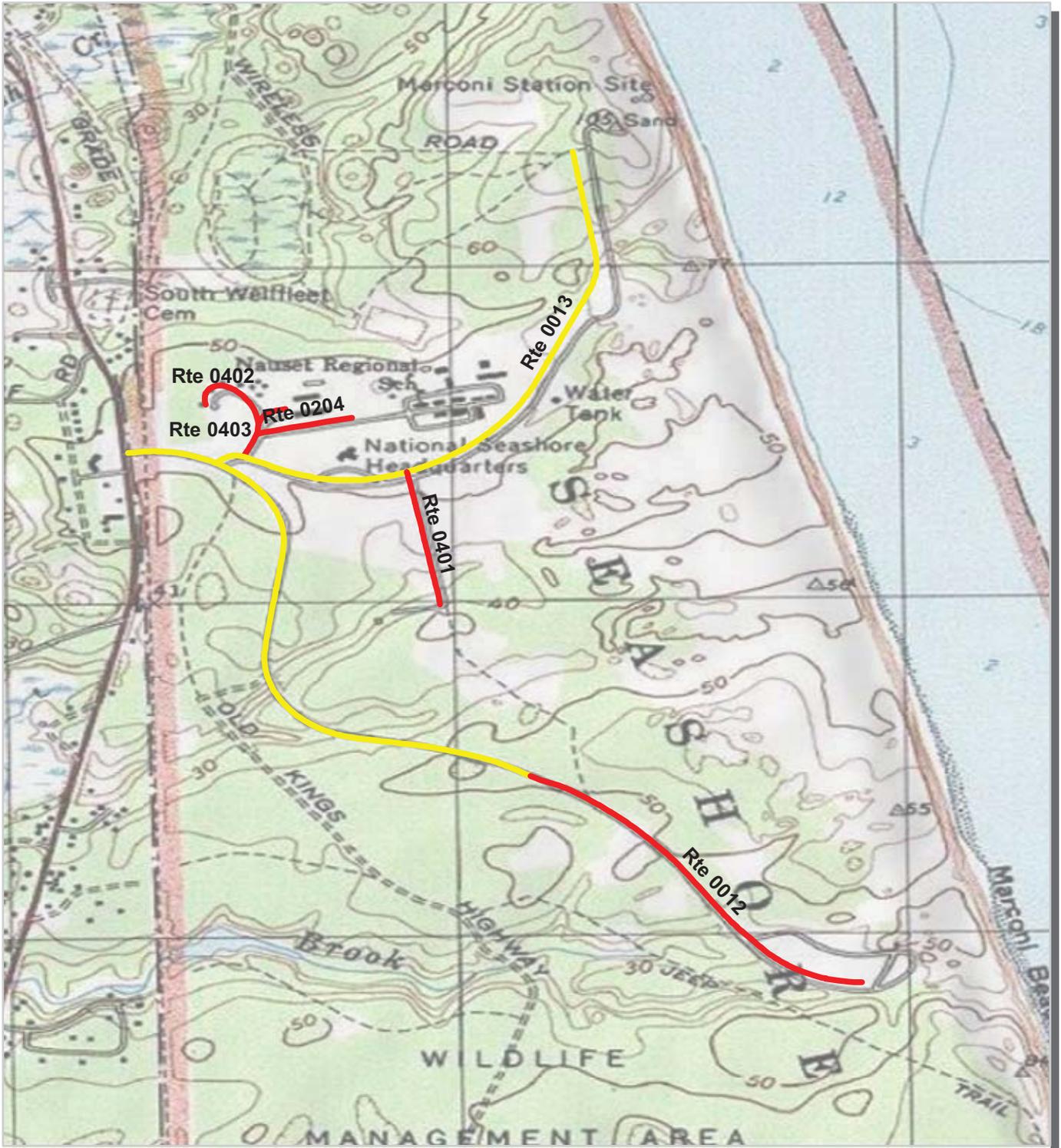


PCR	Poor	Fair	Good	Excellent	No Data
	(≤60)	(61 - 84)	(85 - 94)	(95 - 100)	

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Cape Cod National Seashore Route Condition Map PCR - Mile by Mile Area 4



PCR	Poor (≤60)		Fair (61 - 84)		Good (85 - 94)		Excellent (95 - 100)		No Data
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* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Cape Cod National Seashore Route Condition Map PCR - Mile by Mile Area 5



PCR	Poor		Fair		Good		Excellent		No Data	
	(<=60)		(61 - 84)	(85 - 94)	(95 - 100)					

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Cape Cod National Seashore



Section 4 **Park Route Inventory**

NPS/RIP Route ID Report

Road Inventory Program 08/25/2009

(Numerical By Route #)

Page 1 of 8

Shading Color Key:

Red text denotes approx. mileage

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

■ = Concession Route Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

CACO

CAPE COD NATIONAL SEASHORE

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description		Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
				From	To									
0010	32428		DOANE ROAD	FROM ROUTE 0019 (NAUSET ROAD) AT MP 0.21 (ON LEFT)	TO ROUTE 5001 (OCEAN VIEW DRIVE) AT START	N/A	1.010	0.000	1.010	1		0	AS	5
0011	32431		CABLE ROAD	FROM NAUSET ROAD	TO ROUTE 0211 AND ROUTE 5001 INTERSECTION	N/A	0.930	0.000	0.930	1		0	AS	5
0012	32437		MARCONI BEACH ROAD	FROM STATE ROUTE 6	TO ROUTE 0906 (MARCONI BEACH PARKING)	N/A	1.620	0.000	1.620	1		0	AS	4
0013	32440		MARCONI SITE ROAD	FROM ROUTE 0012 (MARCONI BEACH ROAD) AT MP 0.13 (ON LEFT)	TO ROUTE 0907 (MARCONI STATION SITE PARKING)	N/A	0.980	0.000	0.980	1		0	AS	4
0014	32451		RACE POINT ROAD	FROM PARK BOUNDARY	TO ROUTE 0902 (RACE POINT BEACH PARKING)	N/A	1.940	0.000	1.940	1		0	AS	1
0015	32456		PROVINCE LANDS ROAD	FROM ROUTE 0014 (RACE POINT ROAD) AT MP 1.19 (ON LEFT)	TO ROUTE 0017 AND ROUTE 0018 INTERSECTION	N/A	2.320	0.000	2.320	1		0	AS	1
0017	32459		MOORS ROAD	FROM ROUTE 0015 (PROVINCE LANDS ROAD) AT END	TO PARK BOUNDARY	N/A	0.910	0.000	0.910	1		0	AS	1
0018	32463		STATE ROUTE 6	FROM ROUTE 0015 (PROVINCE LANDS ROAD) AT END	TO PARK BOUNDARY	N/A	0.350	0.000	0.350	1		0	AS	1
0019	32467		NAUSET ROAD	FROM ROUTE 0223 (MACPHERSON WAY) AT START	TO STATE ROUTE 6	N/A	0.870	0.000	0.870	1		0	AS	5
0020	32471		OLD DEWLINE ROAD	FROM SOUTH HIGHLANDS ROAD (TOWN ROAD)	TO ROUTE 0232 AND ROUTE 0227 INTERSECTION	N/A	0.530	0.000	0.530	1		0	AS	3
0200	32476		FORT HILL AREA ROAD	FROM GOVERNOR PRENCE ROAD (TOWN ROAD)	TO ROUTE 0915 (FORT HILL UPPER PARKING AREA)	N/A	0.300	0.000	0.300	3		0	AS	5
0201	32477		DOANE ROCK PICNIC AREA ROAD	FROM ROUTE 0010 (DOANE ROAD) AT MP 0.39 (ON RIGHT)	TO ROUTE 0911B (DOANE ROCK PICNIC AREA B PARKING)	N/A	0.140	0.000	0.140	3		0	AS	5
0202	32478		TOMAHAWK TRAIL	FROM ROUTE 0010 (DOANE ROAD) AT MP 0.31 (ON RIGHT)	TO END OF LOOP	N/A	0.590	0.000	0.590	3		0	AS	5
0204	32480		MARCONI EMPLOYEE PARKING ROAD	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.05 (ON RIGHT)	TO ROUTE 0917 (PARK HEADQUARTERS EMPLOYEE PARKING)	N/A	0.130	0.000	0.130	5		0	AS	4
0205	32481		HEAD OF THE MEADOW BEACH ROAD	FROM HEAD OF THE MEADOW ROAD (TOWN ROAD)	TO ROUTE 0927 (HEAD OF THE MEADOW PARKING)	N/A	0.120	0.000	0.120	3		0	AS	2

NPS/RIP Route ID Report

Road Inventory Program 08/25/2009

(Numerical By Route #)

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■ = Concession Route Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

CACO

CAPE COD NATIONAL SEASHORE

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0206	32483		PILGRIM HEIGHTS ROAD	FROM STATE ROUTE 6 TO END OF LOOP	N/A	0.870	0.000	0.870	3		0	AS	2
0207	32484		HIGH HEAD ROAD	FROM TOWN ROAD TO ROUTE 0920 (HIGH HEAD ROAD PARKING)	N/A	0.000	0.400	0.400	3		0	GR	
0209	32487		RACE POINT COAST GUARD STATION ROAD	FROM ROUTE 0014 (RACE POINT ROAD) AT MP 1.87 (ON LEFT) TO ROUTE 0928 (RACE POINT RANGER STATION PARKING)	N/A	0.160	0.000	0.160	3		0	AS	1
0211	32489		NAUSET LIGHT BEACH ACCESS ROAD	FROM ROUTE 5001 AND ROUTE 0011 INTERSECTION TO ROUTE 0912 (NAUSET LIGHT BEACH PARKING)	N/A	0.060	0.000	0.060	3		0	AS	5
0223	32517		MACPHERSON WAY	FROM ROUTE 0019 (NAUSET ROAD) AT START TO END OF PAVEMENT	N/A	0.140	0.000	0.140	3		0	AS	5
0227	32524		NTAFS LANDING ROAD	FROM ROUTE 0020 (OLD DEWLINE ROAD) AT END TO INTERSECTION OF ROUTE 0233 AND ROUTE 0229ZZ	N/A	0.190	0.000	0.190	6		20,064	AS	3
0228	32525		WELL ROAD	FROM ROUTE 0230ZZ (NTAFS RESIDENCE ROADS) TO END OF PAVEMENT	N/A	0.050	0.000	0.050	6		3,168	AS	3
0229ZZ	32529		SEWAGE TREATMENT PARKING ROADS	FROM INTERSECTION OF ROUTE 0227 AND ROUTE 0233 TO END	N/A	0.300	0.000	0.300	6		12,672	AS	3
0230ZZ	32527		NTAFS RESIDENCE ROADS	FROM ROUTE 0227 (NTAFS LANDING ROAD) THROUGH RESIDENCE AREA	N/A	0.440	0.000	0.440	6		46,464	AS	3
0231	32538		NAC LABORATORY ACCESS ROAD	FROM ROUTE 0020 (OLD DEWLINE ROAD) AT MP 0.49 (ON LEFT) TO ROUTE 0922 (NAC LABORATORY PARKING)	N/A	0.080	0.000	0.080	5		0	AS	3
0232	32541		NTAFS ACCESS ROAD	FROM ROUTE 0020 (OLD DEWLINE ROAD) AT END TO PAVEMENT CHANGE AT FAA ACCESS ROAD	N/A	0.190	0.000	0.190	6		0	AS	3
0233	32544		NTAFS FUEL HOUSE ROAD	FROM ROUTE 0232 (NTAFS ACCESS ROAD) AT MP 0.15 (ON RIGHT) TO INTERSECTION WITH ROUTE 0227 AND ROUTE 0229ZZ	N/A	0.080	0.000	0.080	6		8,448	AS	3
0401	32553		B-WELL ROAD	FROM ROUTE 0013 (MARCONI SITE ROAD) AT MP 0.28 (ON RIGHT) TO END OF PAVEMENT	N/A	0.250	0.000	0.250	4		0	AS	4
0402	32554		MARCONI RESIDENCE ROAD	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.07 (ON LEFT) TO END OF PAVEMENT	N/A	0.140	0.000	0.140	5		0	AS	4
0403	32556		MARCONI MAINTENANCE AREA ROAD	FROM ROUTE 0013 (MARCONI SITE ROAD) AT MP 0.04 (ON LEFT) TO ROUTE 0909ZZ (MARCONI MAINTENANCE PARKING AREAS)	N/A	0.110	0.000	0.110	5		0	AS	4
0404	32557		MEADOW RESIDENCE ROAD	FROM HEAD OF MEADOW TOWN ROAD TO END AT PARK RESIDENCES	N/A	0.000	0.310	0.310	5		0	GR	

NPS/RIP Route ID Report

Road Inventory Program 08/25/2009

(Numerical By Route #)

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CACO

CAPE COD NATIONAL SEASHORE

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0909ZZ	32589		MARCONI MAINTENANCE PARKING AREAS	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.10 (ON LEFT)	TO ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT END	N/A	0.000	0.000	0.000			57,752	AS	4
0910	32590		MARCONI RESIDENCE ROAD PARKING	ADJACENT TO ROUTE 0402 (MARCONI RESIDENCE ROAD) AT MP 0.06 (ON RIGHT)		N/A	0.000	0.000	0.000			1,331	AS	4
0911A	32593		DOANE ROCK PICNIC AREA A PARKING	FROM ROUTE 0201 (DOANE ROCK PICNIC AREA ROAD) AT MP 0.04 (ON LEFT)	TO ROUTE 0201 (DOANE ROCK PICNIC AREA ROAD) AT MP 0.06 (ON LEFT)	N/A	0.000	0.000	0.000			7,349	AS	5
0911B	32594		DOANE ROCK PICNIC AREA B PARKING	FROM ROUTE 0201 (DOANE ROCK PICNIC AREA ROAD) AT END	TO PARKING	N/A	0.000	0.000	0.000			14,506	AS	5
0912	32595		NAUSET LIGHT BEACH PARKING	FROM ROUTE 0211 (NAUSET LIGHT BEACH ACCESS ROAD) AT END	TO PARKING	N/A	0.000	0.000	0.000			73,134	AS	5
0913	32596		COAST GUARD BEACH ENVIRONMENTAL EDUCATION CENTER PARKING	FROM ROUTE 0010 (DOANE ROAD) AT MP 0.97 (ON RIGHT)	TO PARKING	N/A	0.000	0.000	0.000			57,492	AS	5
0914	32597		COAST GUARD BEACH BUS STOP PARKING	FROM ROUTE 0010 (DOANE ROAD) AT MP 0.42 (ON LEFT)	TO PARKING	N/A	0.000	0.000	0.000			209,582	AS	5
0915	32598		FORT HILL UPPER PARKING AREA	FROM ROUTE 0200 (FORT HILL AREA ROAD) AT END	TO PARKING	N/A	0.000	0.000	0.000			4,130	AS	5
0916	32599		FORT HILL LOWER PARKING AREA	FROM ROUTE 0200 (FORT HILL AREA ROAD) AT MP 0.12 (ON LEFT)	TO PARKING	N/A	0.000	0.000	0.000			4,736	AS	5
0917	32600		PARK HEADQUARTERS EMPLOYEE PARKING	FROM ROUTE 0204 (MARCONI EMPLOYEE PARKING ROAD) AT END	TO HELIPAD	N/A	0.000	0.000	0.000			28,389	AS	4
0918	32601		OLD VEHICLE STORAGE AREA	FROM ROUTE 0204 (MARCONI EMPLOYEE PARKING ROAD) AT MP 0.13 (ON LEFT)	TO PARKING	N/A	0.000	0.000	0.000			6,603	CO	4
0919	32602		SALT POND VISITOR CENTER PARKING	FROM ROUTE 0019 (NAUSET ROAD) AT MP 0.64 (ON LEFT)	TO ROUTE 0019 (NAUSET ROAD) AT MP 0.80 (ON LEFT)	N/A	0.000	0.000	0.000			97,975	AS	5
0920	32603		HIGH HEAD ROAD PARKING	FROM ROUTE 0207 (HIGH HEAD ROAD) AT END	TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0921	38488		SPECTACLE POND ROAD & PARKING	FROM LONG POND ROAD	TO PARKING	N/A	0.000	0.000	0.000			0	GR	

NPS/RIP Route ID Report

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General Park Road Functional Classification Table

- Class 1** Principal Park Road/Rural Parkway (Public Roads) Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Inventoried for Park. Route Numbers 5000-5999
- Class 2** Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.
- Class 3** Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.
- Class 4** Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.
Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.
- Class 5** Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.
- Class 6** Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499.
Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.
- Class 7** Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.
- Class 8** City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed, but on the intended use or function of that road or route.

The historic route numbering system also included a 300 number series for interpretive roads, and a 500 series for one-way roads. There are approximately 250 roads nationwide which are designated by the 300 and 500 series. The numbers for these roads will be maintained for reporting consistency. However, since these interpretive and one-way routes are not as clearly tied to a specific functional class, the 300 and 500 series will be discontinued for future use.

5000 route numbers are assigned to Non-NPS Routes that are State, County or City owned which border, traverse, or provide access to Park Facilities or Assets. 5000 Routes are driven for GPS, Video Log and Road Features only.

Surface Type Abbreviations:

- AS - Asphaltic Concrete Pavement**
- CO - Portland Cement Concrete Pavement**
- BR - Brick or Pavers Road Bed**
- CB - Cobble Stone Road Bed**
- GR - Gravel Road Bed**
- SA - Sand Road Bed**
- NV - Native or Dirt Material Road Bed**
- OT - Other Materials Road Bed**

NPS/RIP Subcomponent Details for CACO

Road Inventory Program 08/25/2009

(Numerical By Subcomponent #)

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Green = All Unpaved Parking Areas

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CACO

CAPE COD NATIONAL SEASHORE

Asset Entered in FMSS System

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0229ZZ	32529		SEWAGE TREATMENT PARKING ROADS	FROM INTERSECTION OF ROUTE 0227 AND ROUTE 0233	TO END		6	0.30	0.00	0.30	12,672
0230ZZ	32527		NTAFS RESIDENCE ROADS	FROM ROUTE 0227 (NTAFS LANDING ROAD)	THROUGH RESIDENCE AREA		6	0.44	0.00	0.44	46,464
0407ZZ	32567		PROVINCE LANDS RESIDENCE ROADS	FROM ROUTE 0014 (RACE POINT ROAD) AT MP 0.08 (ON RIGHT)	THOUGH RESIDENCE AREA		5	0.19	0.00	0.19	5,280
0905AZZ	32584		PILGRIM HEIGHTS PICNIC AREA PARKING AREAS WEST	ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.44 (ON LEFT AND RIGHT)				0.00	0.00	0.00	17,424
0905BZZ	32585		PILGRIM HEIGHTS PICNIC AREA PARKING AREAS EAST	ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.65 (ON LEFT AND RIGHT)				0.00	0.00	0.00	18,528
0909ZZ	32589		MARCONI MAINTENANCE PARKING AREAS	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.10 (ON LEFT)	TO ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT END			0.00	0.00	0.00	57,752

Asset CACO-0229ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0229AZ	32529	■	SEWAGE TREATMENT PARKING ROAD A	FROM ROUTE 0227 (NTAFS LANDING ROAD)	TO END OF PAVEMENT		6	0.17	0.00	0.17	7,181
0229BZ	32529	■	SEWAGE TREATMENT PARKING ROAD B	FROM ROUTE 0229AZ (SEWAGE TREATMENT PARKING ROAD A)	TO END OF PAVEMENT		6	0.13	0.00	0.13	5,491

Asset CACO-0230ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0230AZ	32527	■	NTAFS RESIDENCE STREET A	FROM ROUTE 0230Z (NTAFS RESIDENCE ACCESS ROAD)	TO END OF PAVEMENT		6	0.05	0.00	0.05	5,280
0230BZ	32527	■	NTAFS RESIDENCE STREET B	FROM ROUTE 0230Z (NTAFS RESIDENCE ACCESS ROAD)	TO END OF PAVEMENT		6	0.05	0.00	0.05	5,280
0230Z	32527	■	NTAFS RESIDENCE ACCESS ROAD	FROM ROUTE 0227 (NTAFS LANDING ROAD)	TO ROUTE 0227 (NTAFS LANDING ROAD)		6	0.34	0.00	0.34	35,904

NPS/RIP Subcomponent Details for CACO

Road Inventory Program 08/25/2009

(Numerical By Subcomponent #)

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Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

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CACO

CAPE COD NATIONAL SEASHORE

Asset CACO-0407ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0407AZ	32567		PROVINCE LANDS RESIDENCE ROAD A	FROM ROUTE 0014 (RACE POINT ROAD) AT MP 0.08 (ON RIGHT)	TO END OF PAVEMENT		5	0.14	0.00	0.14	0
0407BZ	32567		PROVINCE LANDS RESIDENCE ROAD B	FROM ROUTE 0407AZ (PROVINCE LANDS RESIDENCE ROAD A)	TO END OF PAVEMENT		5	0.05	0.00	0.05	5,280

Asset CACO-0905AZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0905AAZ	32584		PILGRIM HEIGHTS PICNIC AREA PARKING WEST A	ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.44 (ON LEFT)				0.00	0.00	0.00	9,682
0905ABZ	32584		PILGRIM HEIGHTS PICNIC AREA PARKING WEST B	ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.44 (ON RIGHT)				0.00	0.00	0.00	7,742

Asset CACO-0905BZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0905BAZ	32585		PILGRIM HEIGHTS PICNIC AREA PARKING EAST A	ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.65 (ON LEFT)				0.00	0.00	0.00	8,266
0905BBZ	32585		PILGRIM HEIGHTS PICNIC AREA PARKING EAST B	ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.65 (ON RIGHT)				0.00	0.00	0.00	10,262

NPS/RIP Subcomponent Details for CACO

Road Inventory Program 08/25/2009

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Grey = Paved Routes, ARAN not Driven

Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

= Concession Route Flag ON

= Subcomponent Flag ON

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CACO

CAPE COD NATIONAL SEASHORE

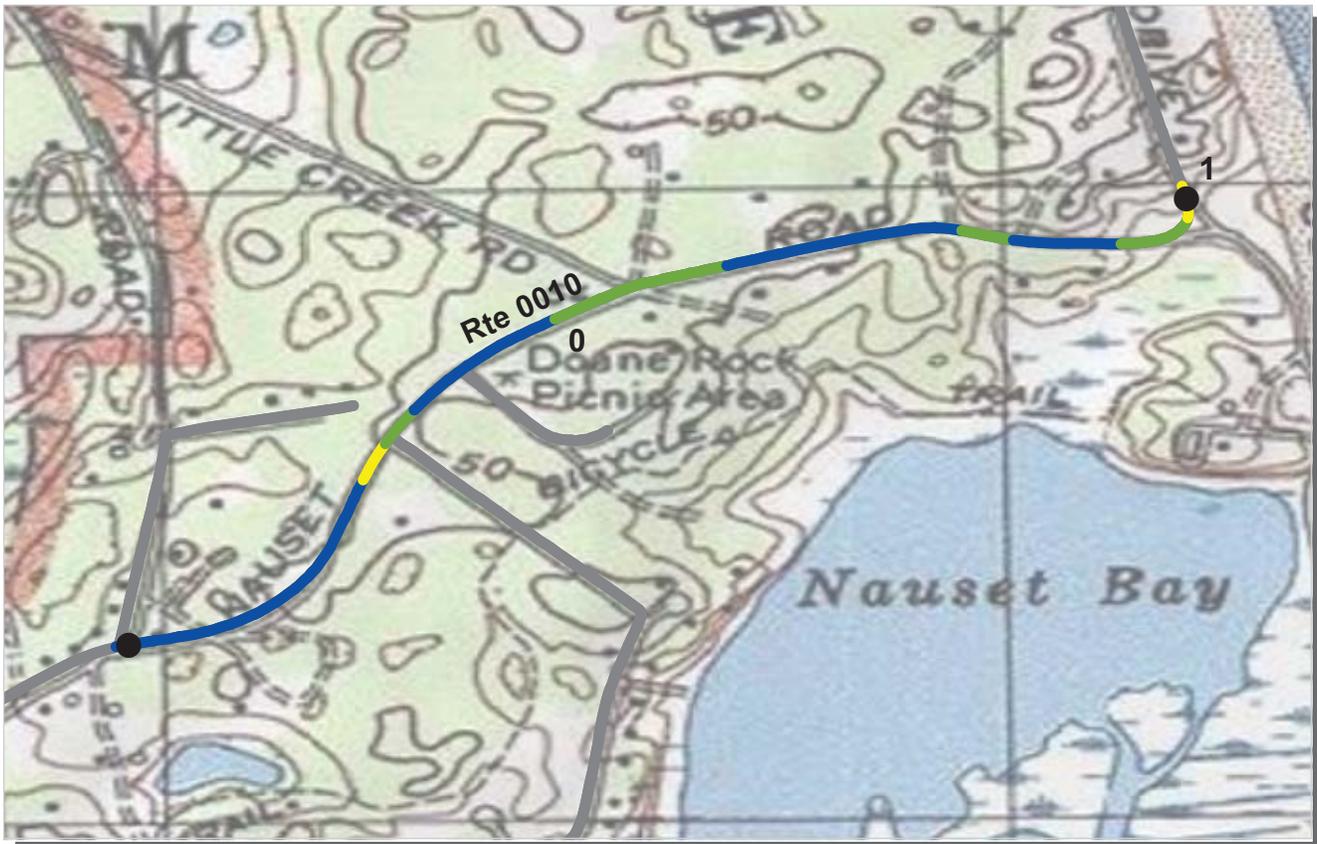
Asset CACO-0909ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0909AZ	32589		MARCONI MAINTENANCE PARKING A	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT END	TO PARKING			0.00	0.00	0.00	48,461
0909BZ	32589		MARCONI MAINTENANCE PARKING B	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.10 (ON LEFT)	TO PARKING			0.00	0.00	0.00	9,292

Cape Cod National Seashore



Section 5 **Paved Route Condition Rating Sheets** **(CRS)**



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

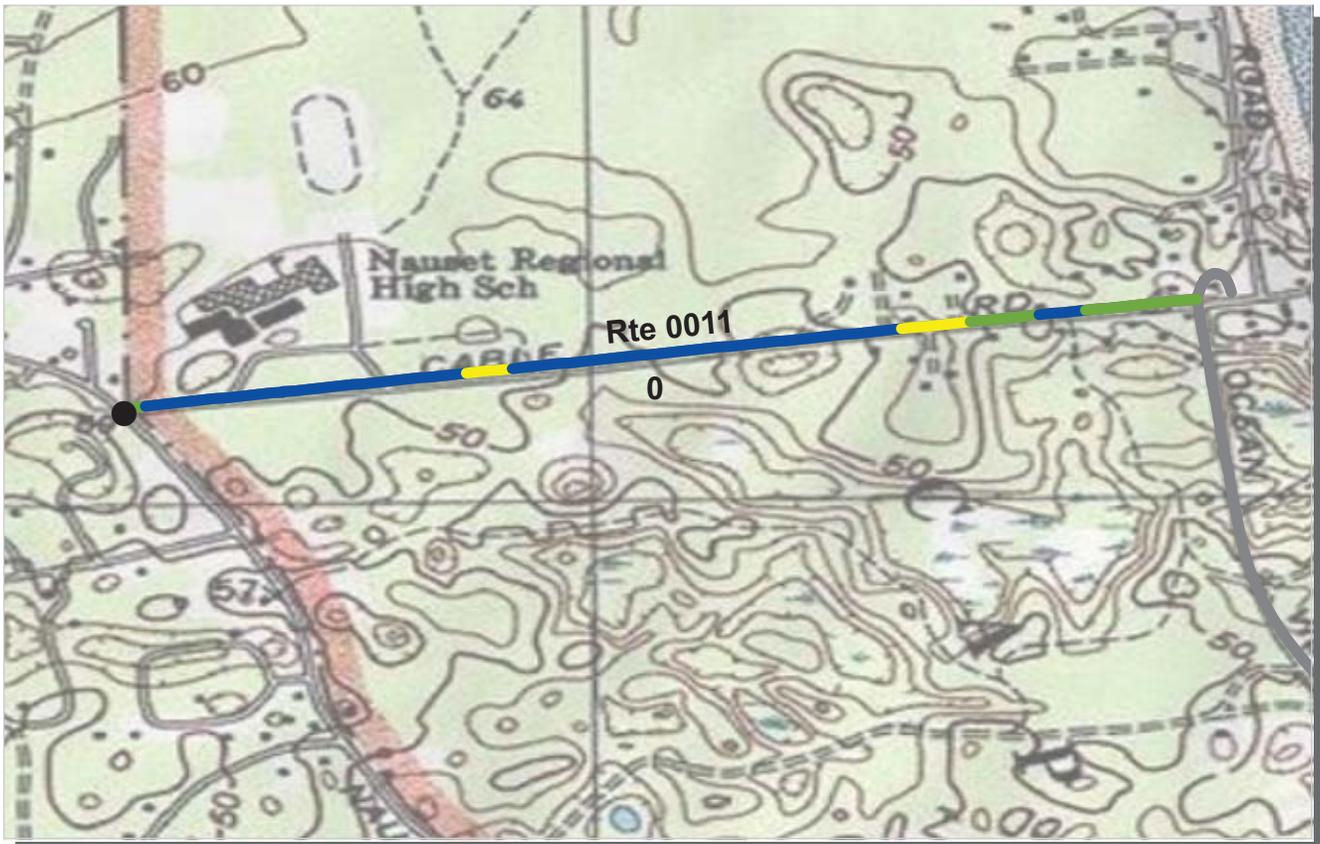
ROUTE: 0010 DOANE ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 1.01 Miles

NORTHEAST REGION

Section Number	0	1			
Section Length (mi)	1.00	0.01			
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	24	26			
Lane Width (ft)	10	10			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	89	85			
PCR (Pavement Condition Rating)	93	70			
Distress Index Values					
Alligator Cracking Index	100	100			
Longitudinal Cracking Index	100	93			
Transverse Cracking Index	100	94			
Patching Index	100	100			
Rutting Index	90	98			
Roughness Condition Index (RCI)	98	48			

ROUTE: 0010 DOANE ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

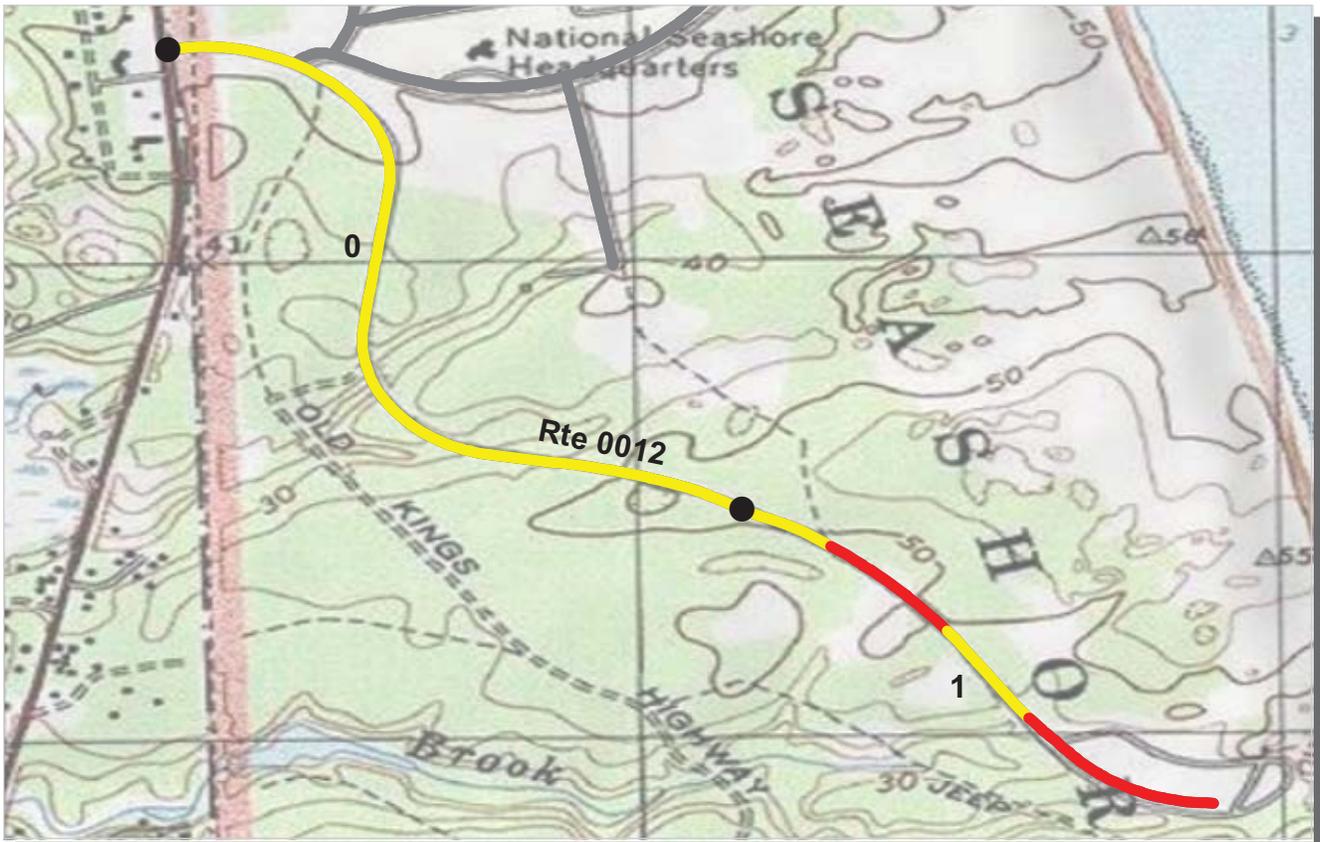
ROUTE: 0011 CABLE ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.93 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.93				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	23				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	93				
PCR (Pavement Condition Rating)	95				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	100				
Patching Index	100				
Rutting Index	93				
Roughness Condition Index (RCI)	98				

ROUTE: 0011 CABLE ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

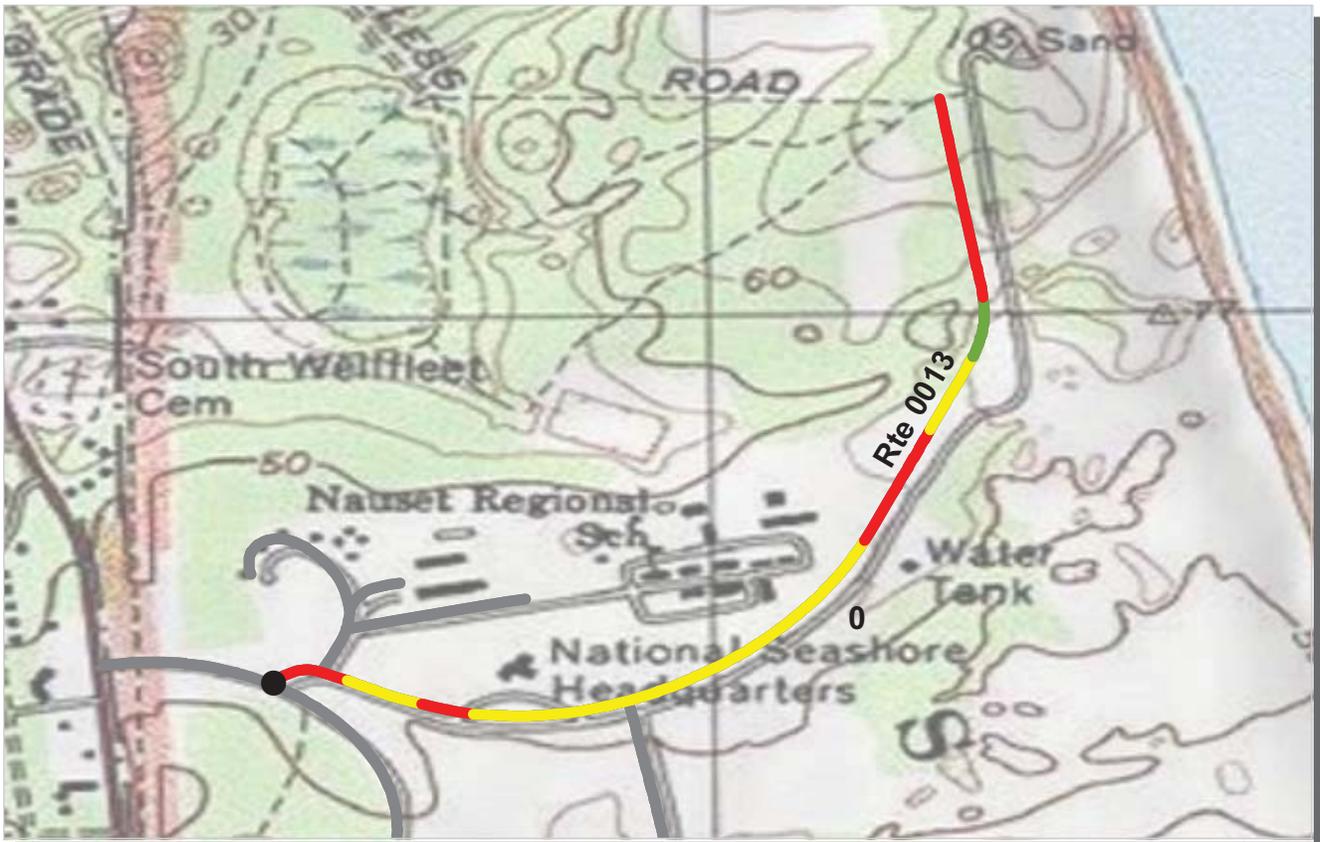
ROUTE: 0012 MARCONI BEACH ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 1.62 Miles

NORTHEAST REGION

Section Number	0	1			
Section Length (mi)	1.00	0.62			
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	3	2			
Paved Width (ft)	26	24			
Lane Width (ft)	10	11			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	67	45			
PCR (Pavement Condition Rating)	75	56			
Distress Index Values					
Alligator Cracking Index	100	97			
Longitudinal Cracking Index	98	98			
Transverse Cracking Index	95	96			
Patching Index	100	99			
Rutting Index	73	54			
Roughness Condition Index (RCI)	88	73			

ROUTE: 0012 MARCONI BEACH ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

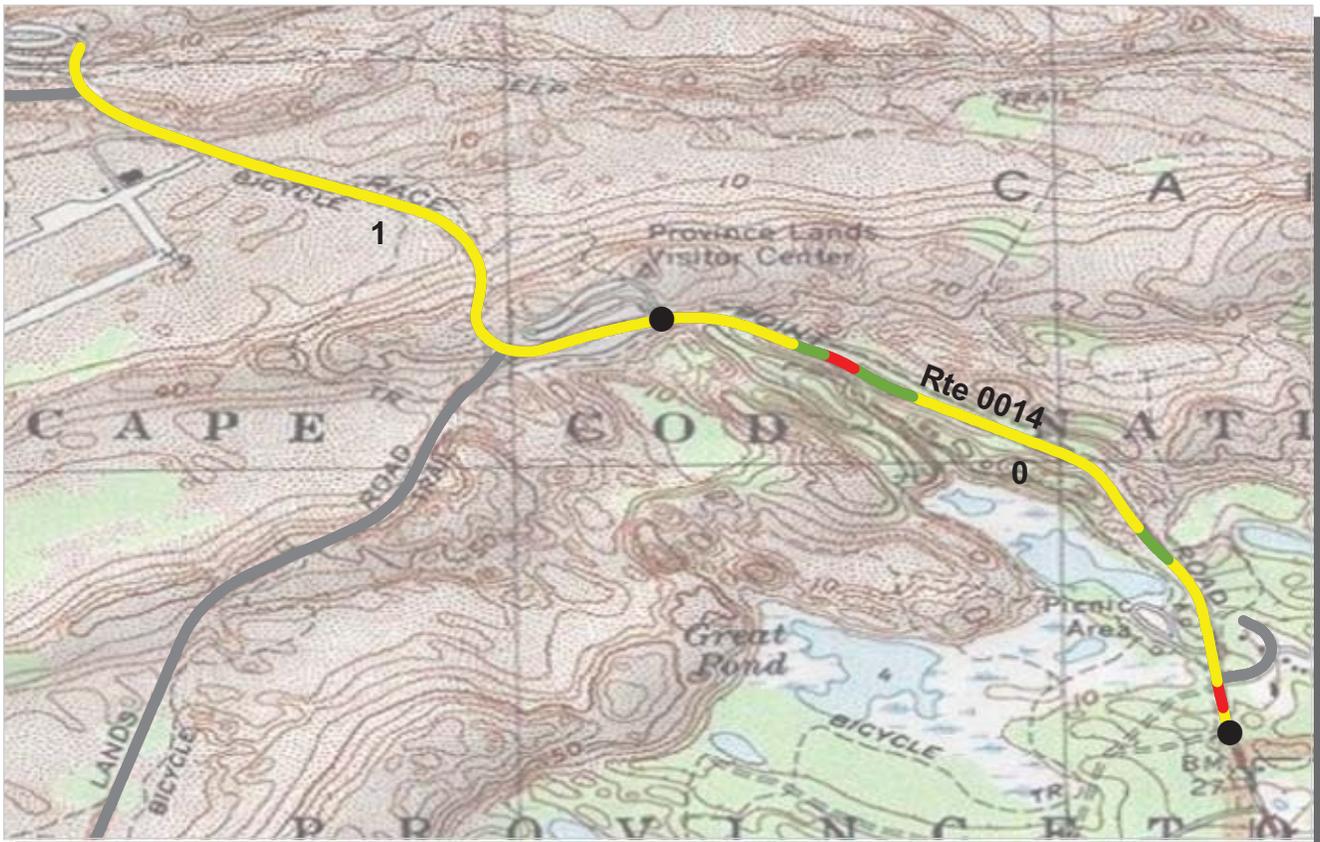
ROUTE: 0013 MARCONI SITE ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.98 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.98				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	55				
PCR (Pavement Condition Rating)	62				
Distress Index Values					
Alligator Cracking Index	99				
Longitudinal Cracking Index	92				
Transverse Cracking Index	88				
Patching Index	100				
Rutting Index	75				
Roughness Condition Index (RCI)	78				

ROUTE: 0013 MARCONI SITE ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

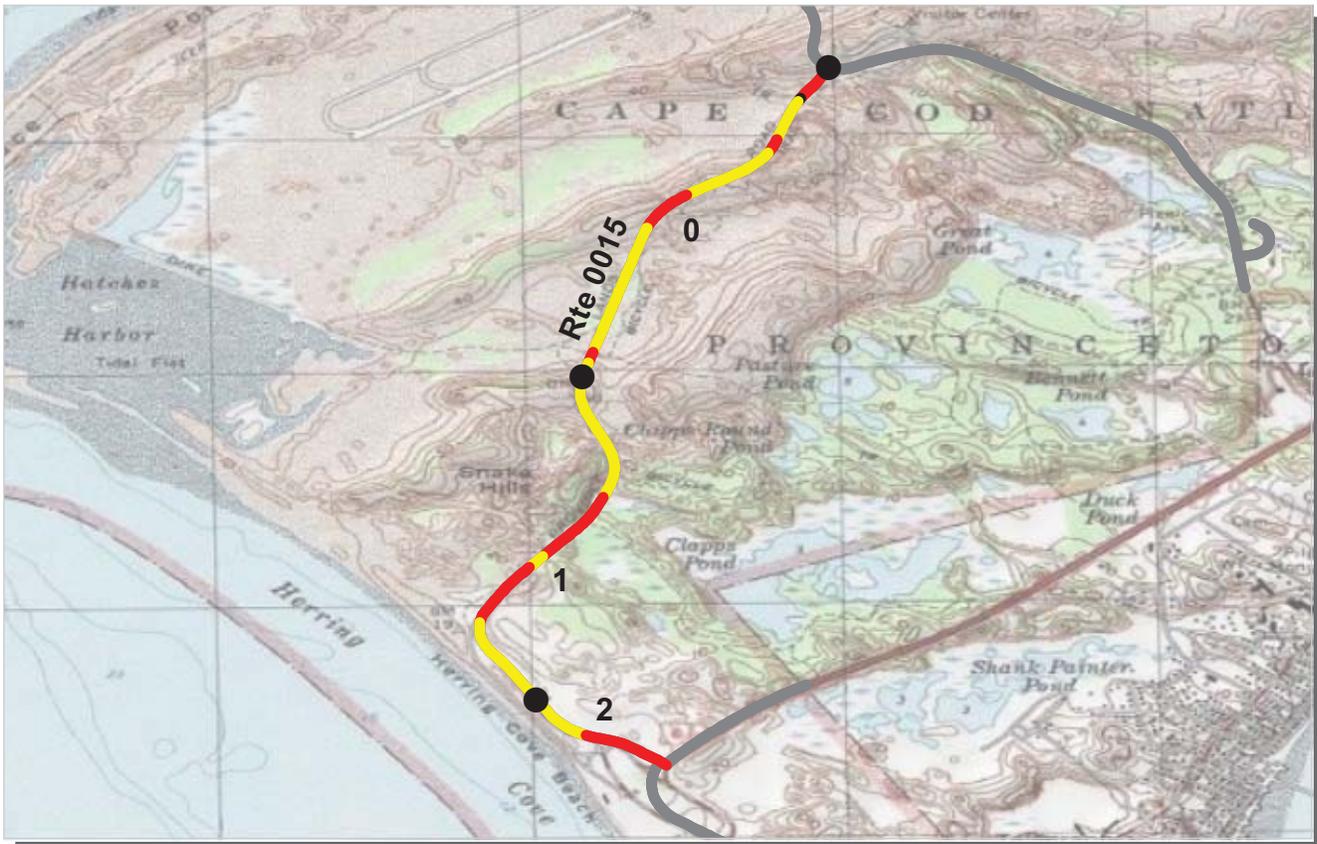
ROUTE: 0014 RACE POINT ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 1.94 Miles

NORTHEAST REGION

<i>Section Number</i>	0	1			
<i>Section Length (mi)</i>	1.00	0.94			
<i>Traffic</i>	AADT SADT ADT Date Traffic data may be found at www.epl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2			
Paved Width (ft)	23	27			
Lane Width (ft)	10	11			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	63	58			
PCR (Pavement Condition Rating)	74	72			
<i>Distress Index Values</i>					
Alligator Cracking Index	99	100			
Longitudinal Cracking Index	93	92			
Transverse Cracking Index	97	98			
Patching Index	100	100			
Rutting Index	74	68			
Roughness Condition Index (RCI)	92	93			

ROUTE: 0014 RACE POINT ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

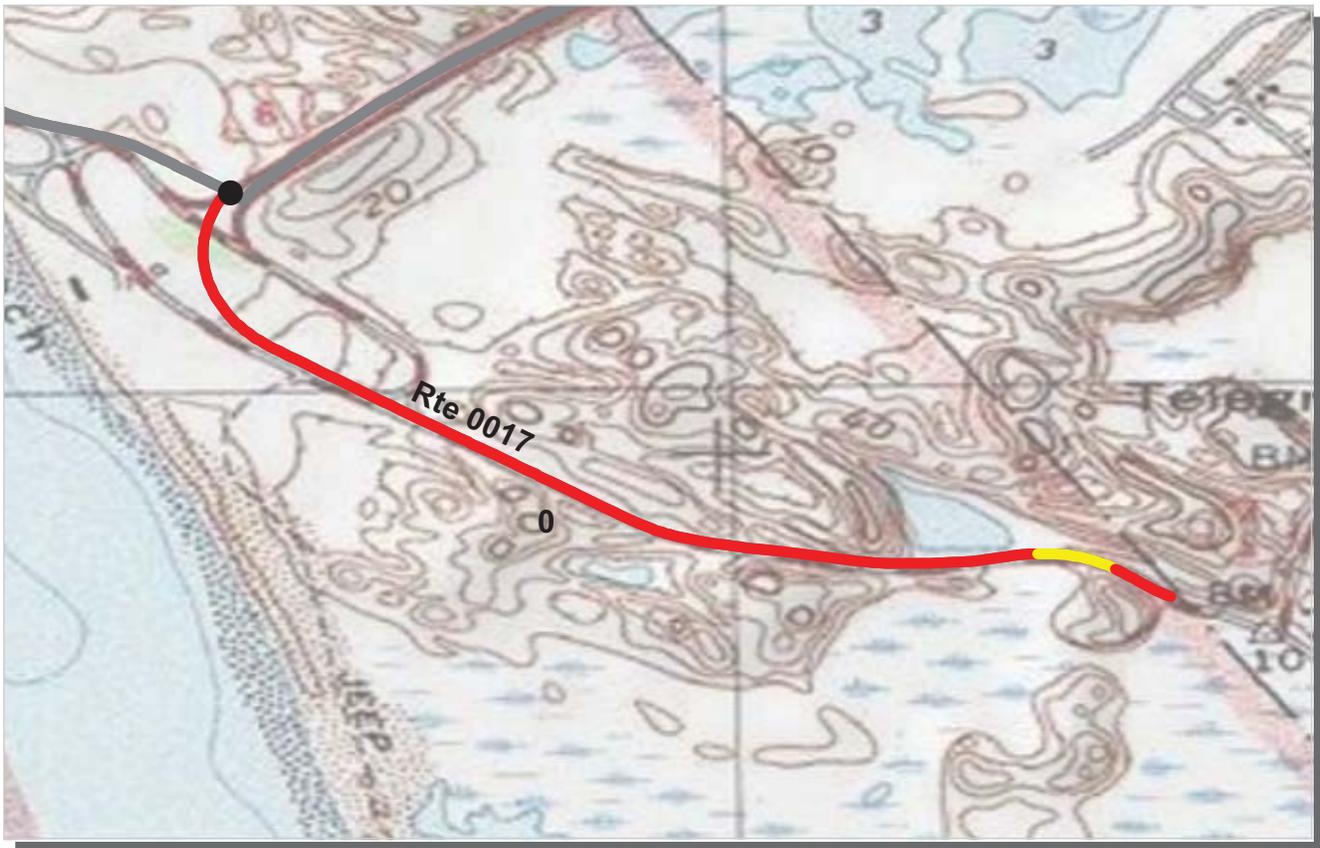
ROUTE: 0015 PROVINCE LANDS ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 2.32 Miles

NORTHEAST REGION

<i>Section Number</i>	0	1	2		
<i>Section Length (mi)</i>	1.00	1.00	0.32		
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2		
Paved Width (ft)	24	24	31		
Lane Width (ft)	10	10	11		
Shoulder Width Right (ft)	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC		
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	43	36	28		
PCR (Pavement Condition Rating)	63	61	47		
<i>Distress Index Values</i>					
Alligator Cracking Index	100	96	100		
Longitudinal Cracking Index	94	95	84		
Transverse Cracking Index	97	97	90		
Patching Index	100	100	100		
Rutting Index	52	48	55		
Roughness Condition Index (RCI)	97	98	91		

ROUTE: 0015 PROVINCE LANDS ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0017 MOORS ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.91 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.91				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	30				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	21				
PCR (Pavement Condition Rating)	44				
Distress Index Values					
Alligator Cracking Index	83				
Longitudinal Cracking Index	90				
Transverse Cracking Index	93				
Patching Index	100				
Rutting Index	53				
Roughness Condition Index (RCI)	83				

ROUTE: 0017 MOORS ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

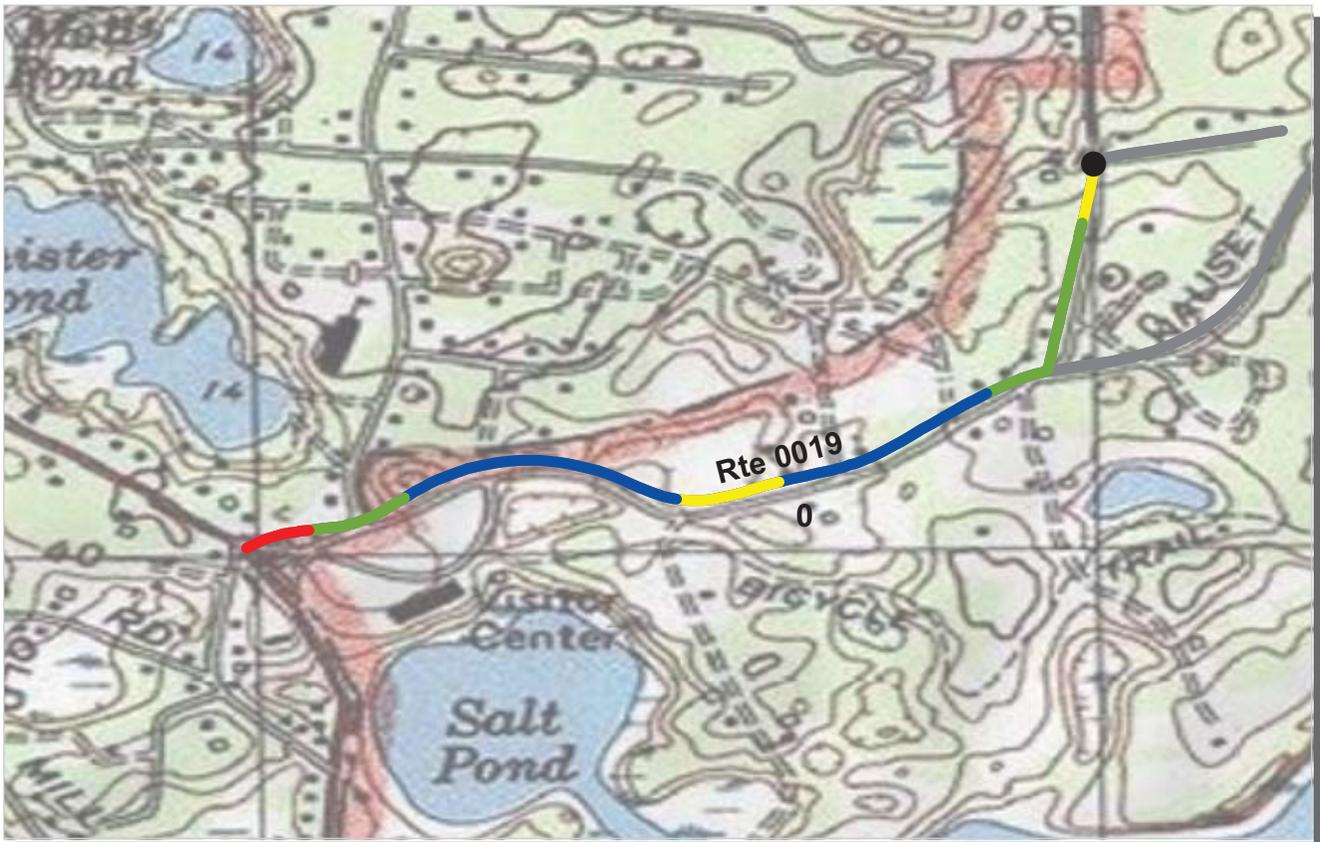
ROUTE: 0018 STATE ROUTE 6
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.35 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.35				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	4				
Paved Width (ft)	52				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	12				
PCR (Pavement Condition Rating)	39				
Distress Index Values					
Alligator Cracking Index	97				
Longitudinal Cracking Index	80				
Transverse Cracking Index	86				
Patching Index	100				
Rutting Index	48				
Roughness Condition Index (RCI)	78				

ROUTE: 0018 STATE ROUTE 6



PCR Poor (≤60) ■ Fair (61 - 84) ■ Good (85 - 94) ■ Excellent (95 - 100) ■ No Data ■

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

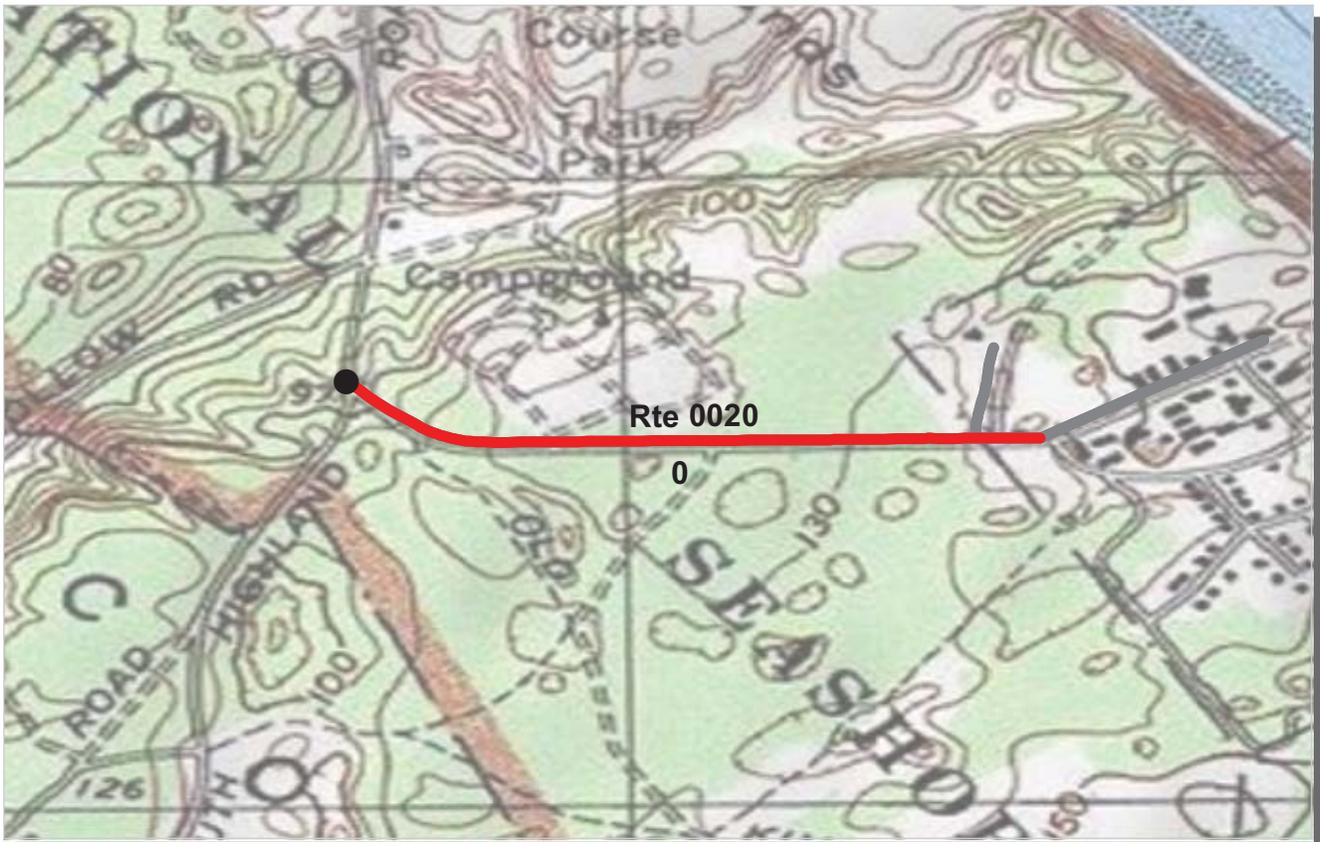
ROUTE: 0019 NAUSET ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.87 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.87				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	86				
PCR (Pavement Condition Rating)	89				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	100				
Patching Index	100				
Rutting Index	87				
Roughness Condition Index (RCI)	97				

ROUTE: 0019 NAUSET ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0020 OLD DEWLINE ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.53 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.53				
Traffic	Traffic data may be found at www.epl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	18				
PCR (Pavement Condition Rating)	29				
Distress Index Values					
Alligator Cracking Index	91				
Longitudinal Cracking Index	85				
Transverse Cracking Index	86				
Patching Index	100				
Rutting Index	54				
Roughness Condition Index (RCI)	54				

ROUTE: 0020 OLD DEWLINE ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0200 FORT HILL AREA ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.30 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.30				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	45				
PCR (Pavement Condition Rating)	42				
Distress Index Values					
Alligator Cracking Index	94				
Longitudinal Cracking Index	86				
Transverse Cracking Index	89				
Patching Index	100				
Rutting Index	77				
Roughness Condition Index (RCI)	52				

ROUTE: 0200 FORT HILL AREA ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0201 DOANE ROCK PICNIC AREA ROAD
CACO : CAPE COD NATIONAL SEASHORE

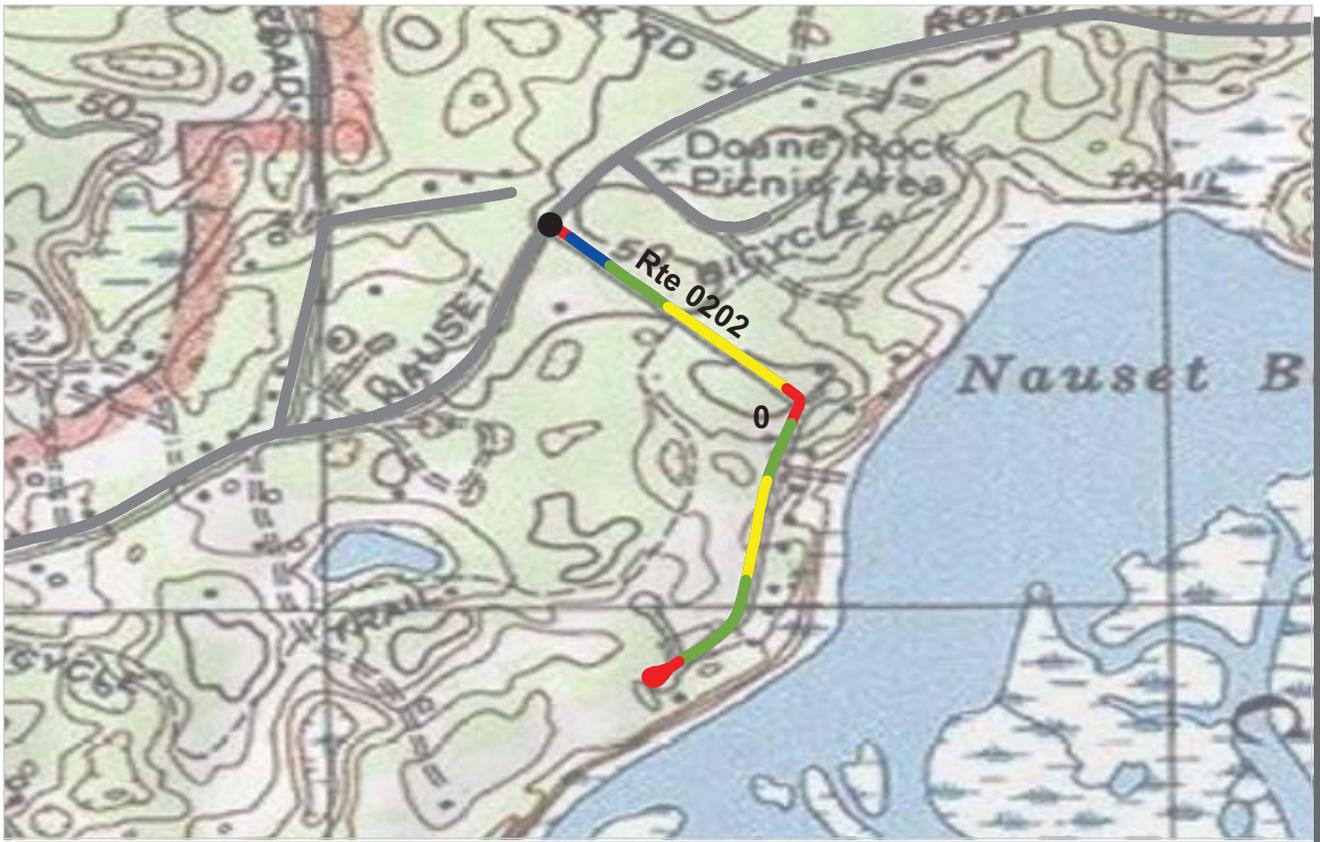
COLLECTED: 11/13/2008
TOTAL LENGTH: 0.14 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.14				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	81				
PCR (Pavement Condition Rating)	76				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	95				
Patching Index	100				
Rutting Index	86				
Roughness Condition Index (RCI)	62				

ROUTE: 0201 DOANE ROCK PICNIC AREA ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

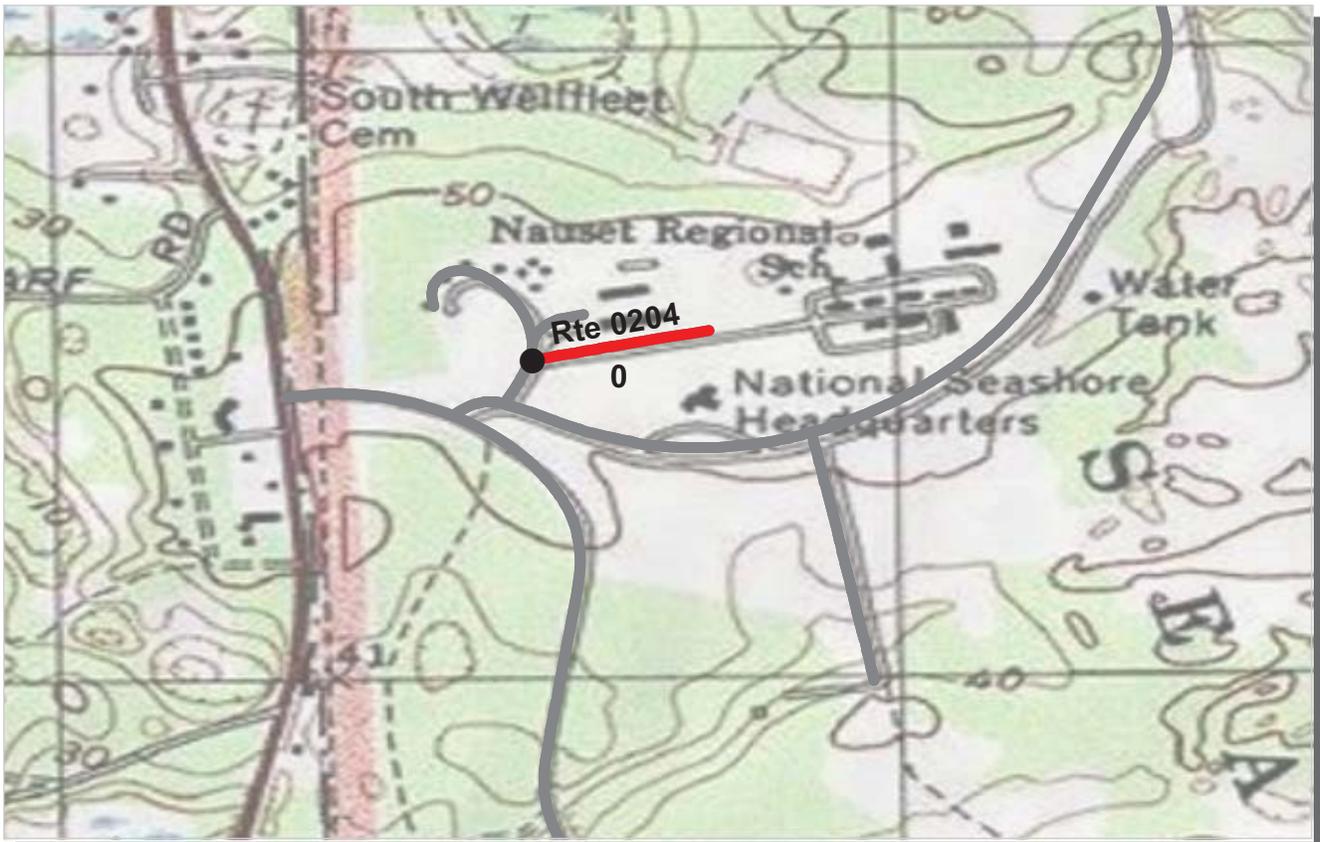
ROUTE: 0202 TOMAHAWK TRAIL
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.59 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.59				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	15				
Lane Width (ft)	7				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	79				
PCR (Pavement Condition Rating)	76				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	100				
Patching Index	100				
Rutting Index	79				
Roughness Condition Index (RCI)	71				

ROUTE: 0202 TOMAHAWK TRAIL



PCR Poor Fair Good Excellent No Data
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0204 MARCONI EMPLOYEE PARKING ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.13 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.13				
Traffic	Traffic data may be found at www.epl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	43				
PCR (Pavement Condition Rating)	48				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	88				
Transverse Cracking Index	86				
Patching Index	99				
Rutting Index	70				
Roughness Condition Index (RCI)	68				

ROUTE: 0204 MARCONI EMPLOYEE PARKING ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

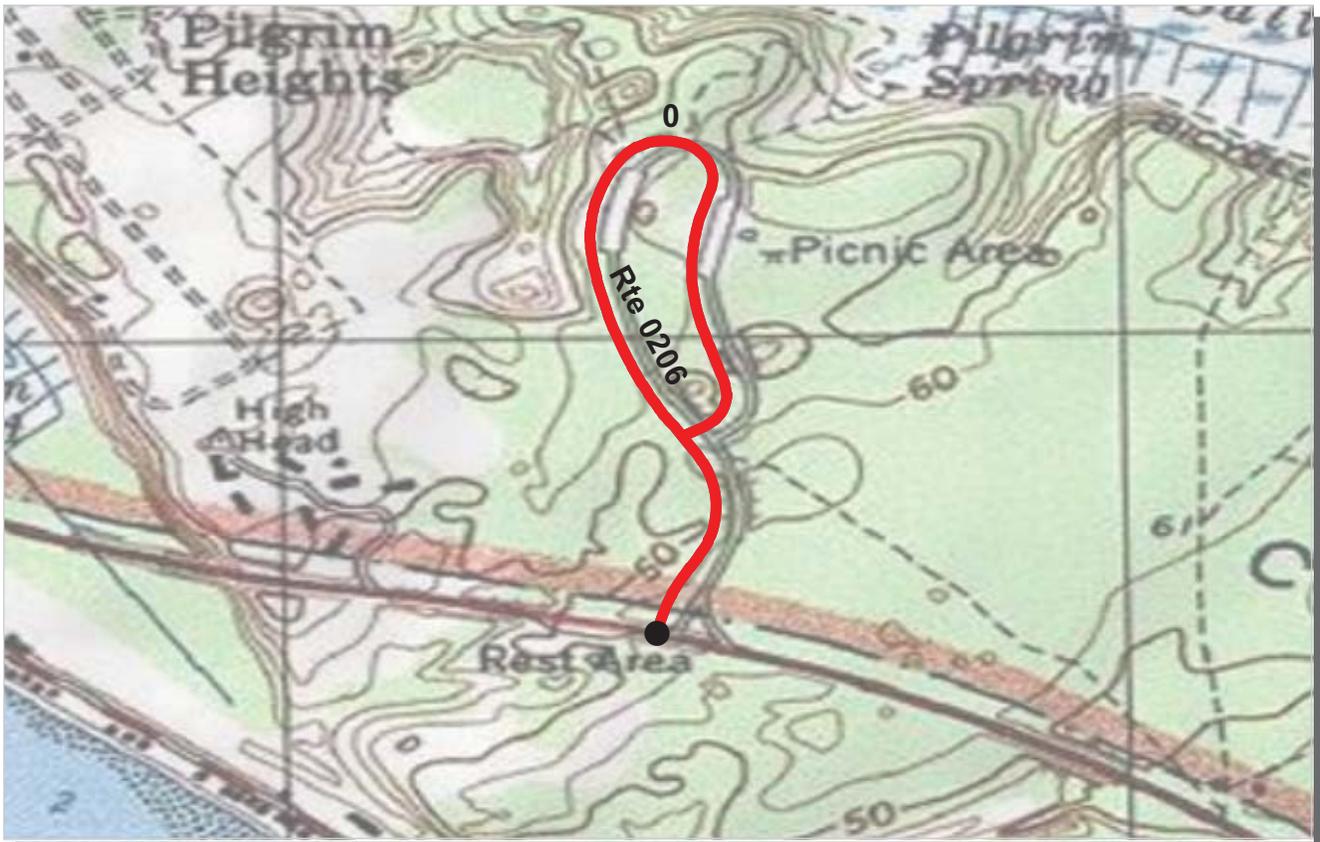
ROUTE: 0205 HEAD OF THE MEADOW BEACH ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.12 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.12				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	55				
PCR (Pavement Condition Rating)	58				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	100				
Patching Index	100				
Rutting Index	55				
Roughness Condition Index (RCI)	80				

ROUTE: 0205 HEAD OF THE MEADOW BEACH ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

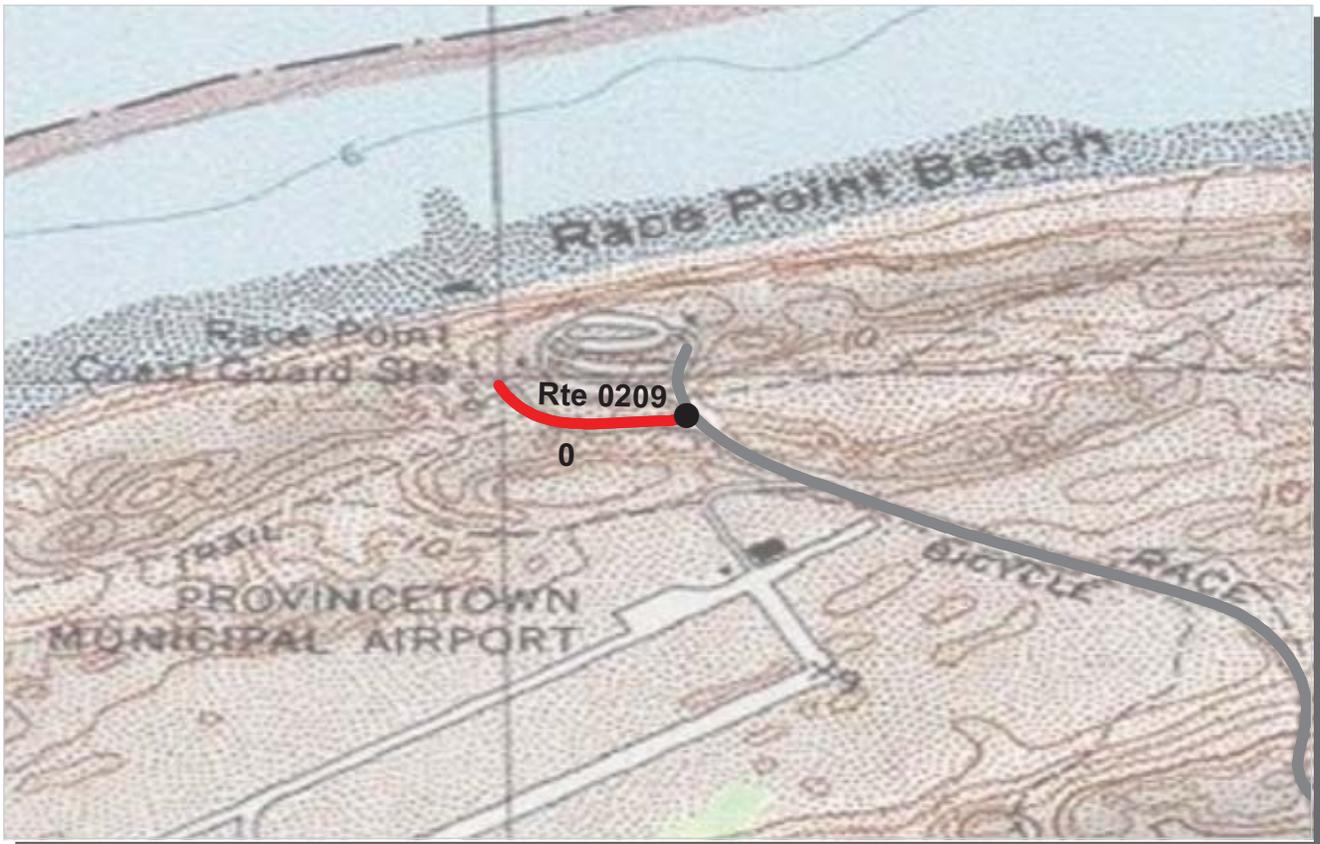
ROUTE: 0206 PILGRIM HEIGHTS ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.87 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.87				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	16				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	22				
PCR (Pavement Condition Rating)	31				
Distress Index Values					
Alligator Cracking Index	99				
Longitudinal Cracking Index	93				
Transverse Cracking Index	81				
Patching Index	100				
Rutting Index	47				
Roughness Condition Index (RCI)	52				

ROUTE: 0206 PILGRIM HEIGHTS ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

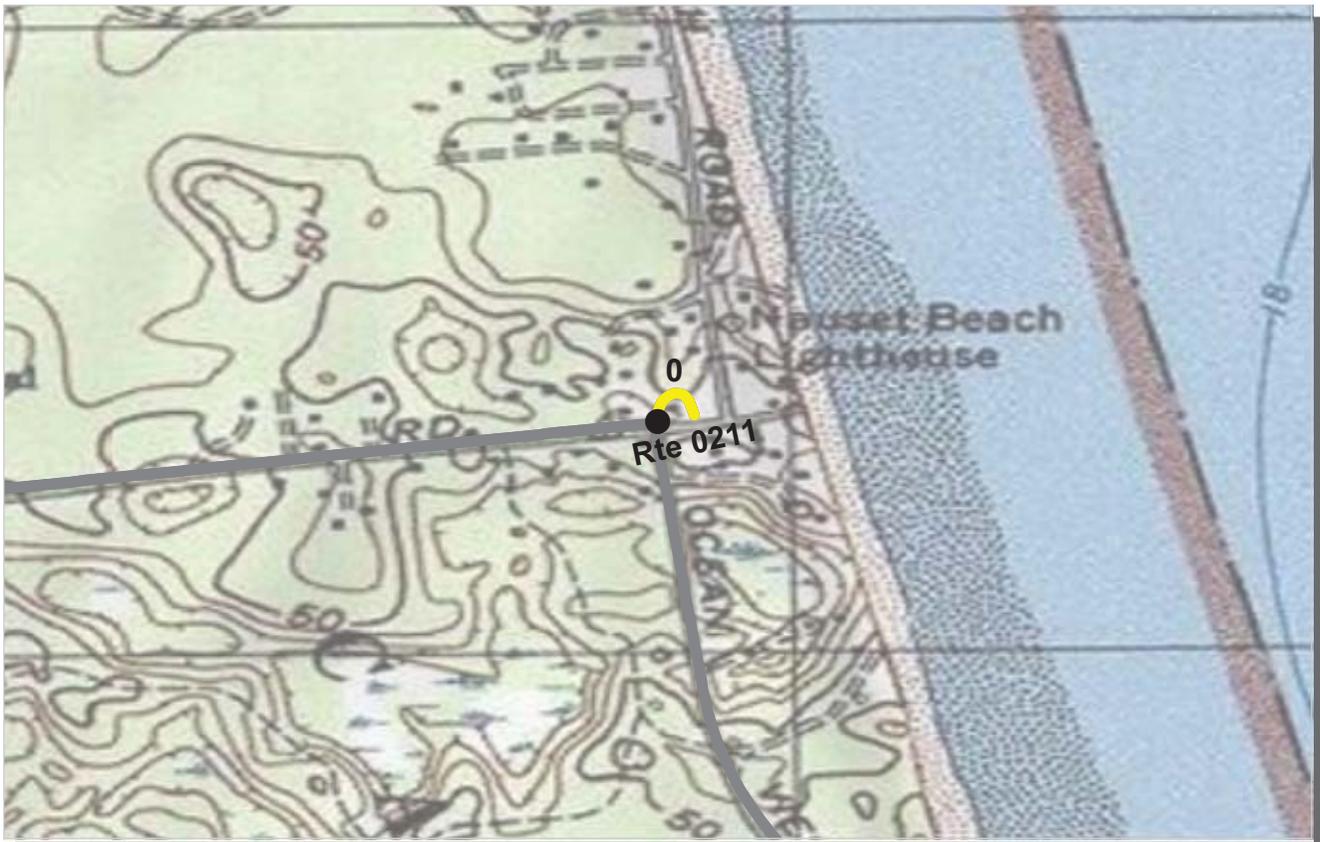
ROUTE: 0209 RACE POINT COAST GUARD STATION ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.16 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.16				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	25				
PCR (Pavement Condition Rating)	30				
Distress Index Values					
Alligator Cracking Index	91				
Longitudinal Cracking Index	97				
Transverse Cracking Index	97				
Patching Index	100				
Rutting Index	40				
Roughness Condition Index (RCI)	48				

ROUTE: 0209 RACE POINT COAST GUARD STATION ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0211 NAUSET LIGHT BEACH ACCESS ROAD
CACO : CAPE COD NATIONAL SEASHORE

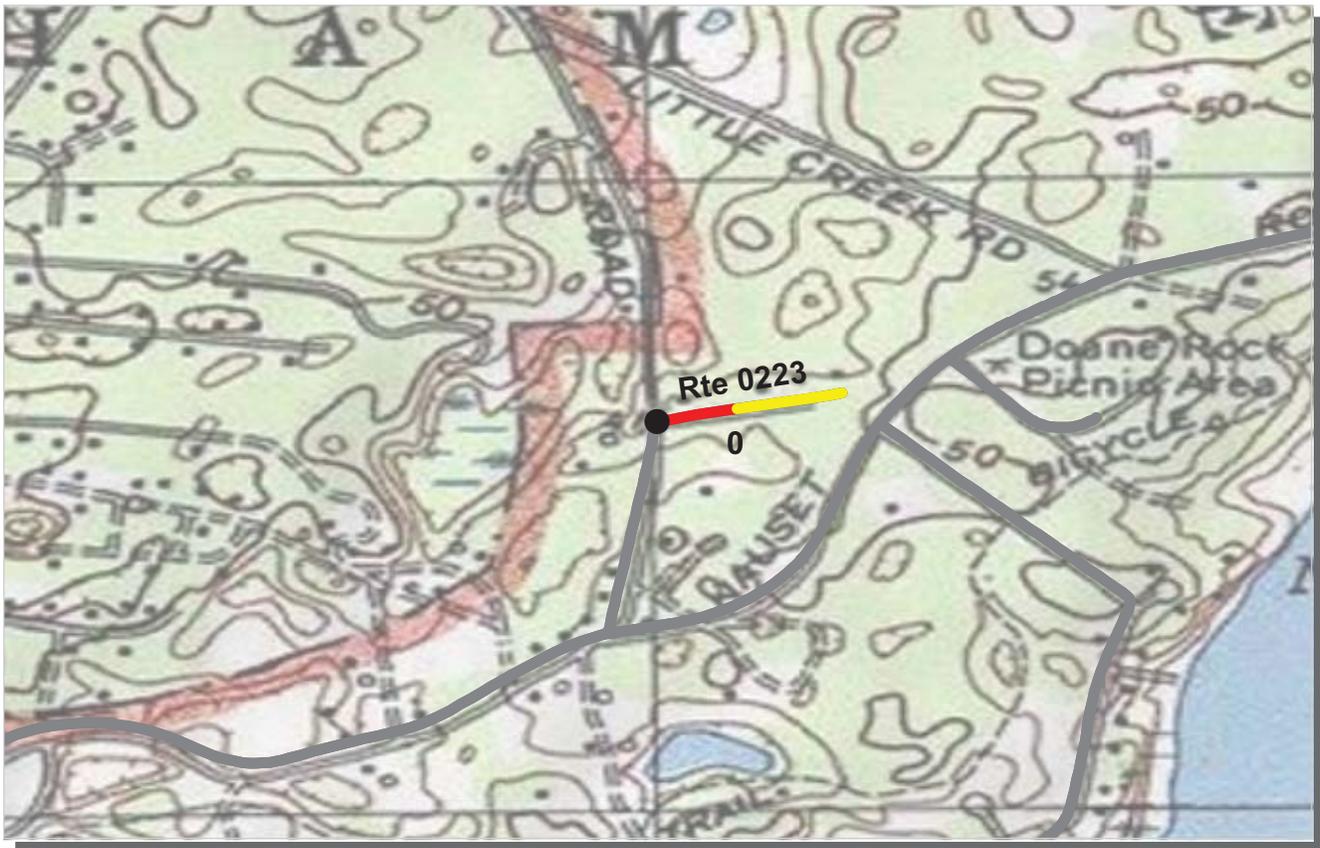
COLLECTED: 11/13/2008
TOTAL LENGTH: 0.06 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.06				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	3				
Paved Width (ft)	33				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	88				
PCR (Pavement Condition Rating)	81				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	100				
Patching Index	100				
Rutting Index	88				
Roughness Condition Index (RCI)	71				

ROUTE: 0211 NAUSET LIGHT BEACH ACCESS ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0223 MACPHERSON WAY
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.14 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.14				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	49				
PCR (Pavement Condition Rating)	52				
Distress Index Values					
Alligator Cracking Index	97				
Longitudinal Cracking Index	94				
Transverse Cracking Index	84				
Patching Index	100				
Rutting Index	75				
Roughness Condition Index (RCI)	80				

ROUTE: 0223 MACPHERSON WAY



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0231 NAC LABORATORY ACCESS ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.08 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.08				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	35				
PCR (Pavement Condition Rating)	40				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	94				
Patching Index	100				
Rutting Index	41				
Roughness Condition Index (RCI)	93				

ROUTE: 0231 NAC LABORATORY ACCESS ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

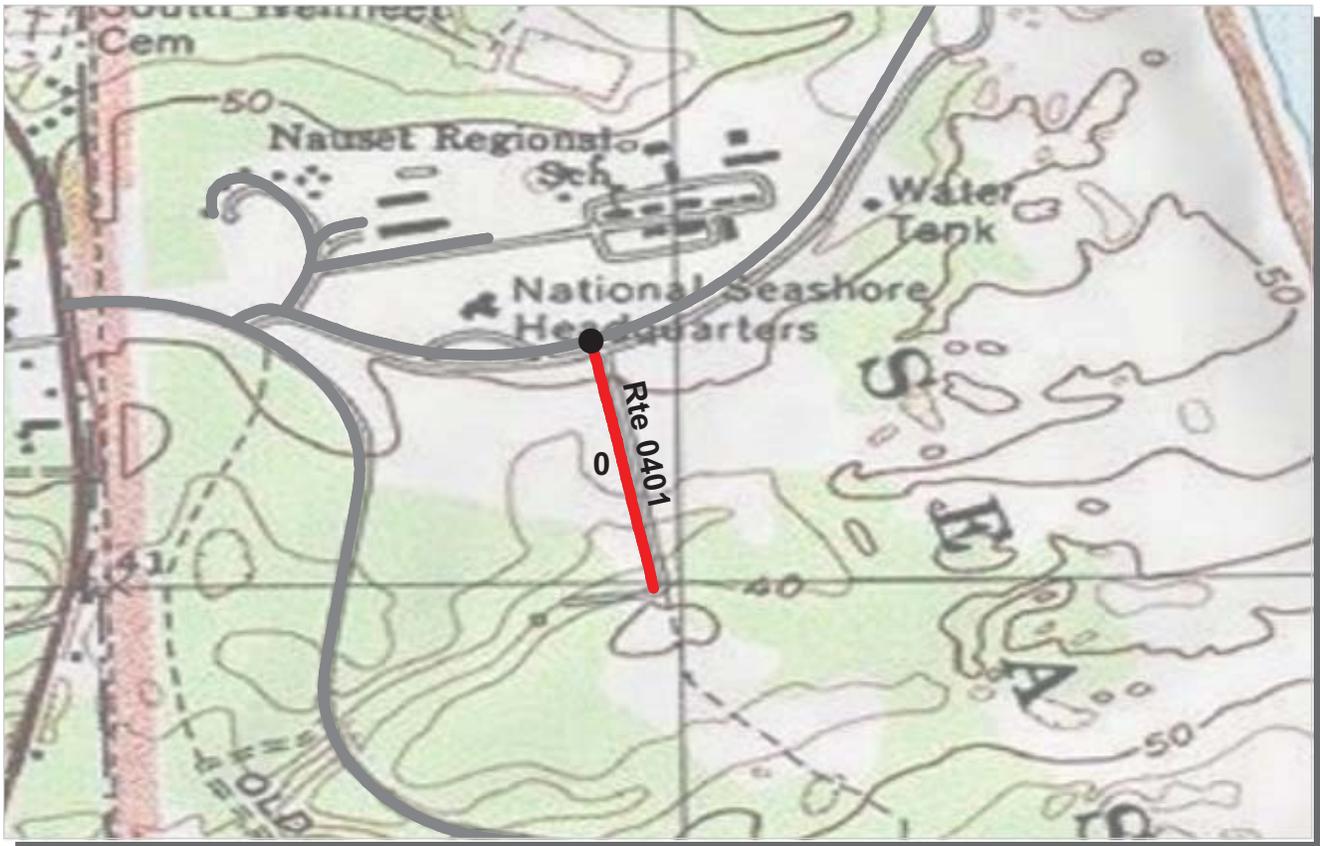
ROUTE: 0232 NTAFS ACCESS ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/14/2008
TOTAL LENGTH: 0.19 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.19				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	0				
PCR (Pavement Condition Rating)	9				
Distress Index Values					
Alligator Cracking Index	89				
Longitudinal Cracking Index	74				
Transverse Cracking Index	58				
Patching Index	99				
Rutting Index	37				
Roughness Condition Index (RCI)	27				

ROUTE: 0232 NTAFS ACCESS ROAD



PCR	Poor	Fair	Good	Excellent	No Data
	(≤60)	(61 - 84)	(85 - 94)	(95 - 100)	

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

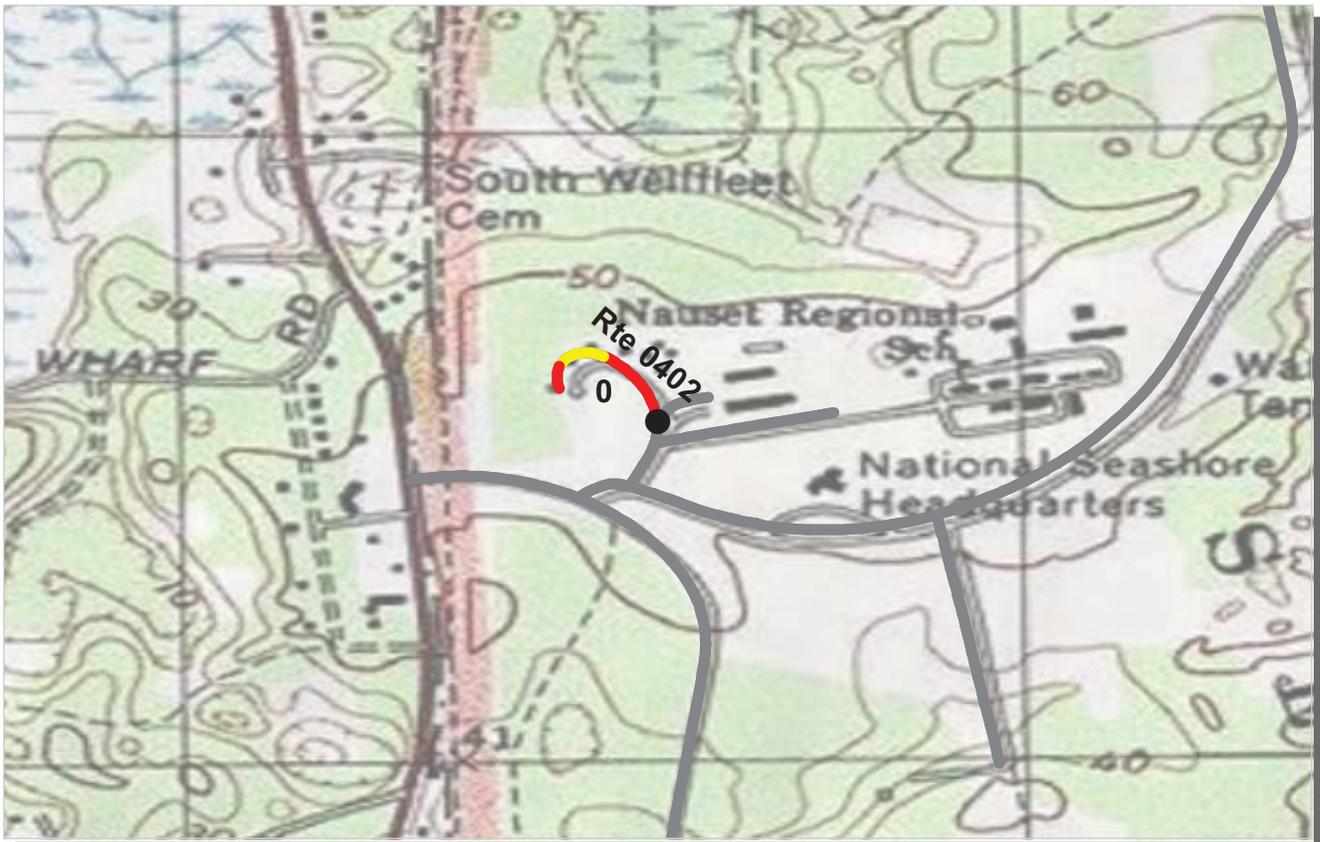
ROUTE: 0401 B-WELL ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.25 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.25				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	13				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	6				
PCR (Pavement Condition Rating)	20				
Distress Index Values					
Alligator Cracking Index	95				
Longitudinal Cracking Index	78				
Transverse Cracking Index	57				
Patching Index	99				
Rutting Index	53				
Roughness Condition Index (RCI)	52				

ROUTE: 0401 B-WELL ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0402 MARCONI RESIDENCE ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.14 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.14				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	53				
PCR (Pavement Condition Rating)	53				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	92				
Transverse Cracking Index	88				
Patching Index	100				
Rutting Index	73				
Roughness Condition Index (RCI)	56				

ROUTE: 0402 MARCONI RESIDENCE ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0403 MARCONI MAINTENANCE AREA ROAD
CACO : CAPE COD NATIONAL SEASHORE

COLLECTED: 11/13/2008
TOTAL LENGTH: 0.11 Miles

NORTHEAST REGION

Section Number	0				
Section Length (mi)	0.11				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	57				
PCR (Pavement Condition Rating)	57				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	91				
Transverse Cracking Index	89				
Patching Index	100				
Rutting Index	77				
Roughness Condition Index (RCI)	66				

ROUTE: 0403 MARCONI MAINTENANCE AREA ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0407ZZ PROVINCE LANDS RESIDENCE ROADS
CACO : CAPE COD NATIONAL SEASHORE

Summary Record COLLECTED: 11/14/2008
 NORTHEAST REGION TOTAL LENGTH: 0.19 Miles

Section Number					
Section Length (mi)					
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	N/A				
Paved Width (ft)	N/A				
Lane Width (ft)	N/A				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	16				
PCR (Pavement Condition Rating)	33				
Distress Index Values					
Alligator Cracking Index	N/A				
Longitudinal Cracking Index	N/A				
Transverse Cracking Index	N/A				
Patching Index	N/A				
Rutting Index	N/A				
Roughness Condition Index (RCI)	N/A				

ROUTE: 0407ZZ PROVINCE LANDS RESIDENCE ROADS

Cape Cod National Seashore



Section 6

Manually Rated Paved Route Condition Rating Sheets (MRR)

CAPE COD NATIONAL SEASHORE

Route 0227

NTAFS LANDING ROAD

FROM ROUTE 0020 (OLD DEWLINE ROAD) AT END
TO INTERSECTION OF ROUTE 0233 AND ROUTE 0229ZZ

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0227	NONPUBLIC	8/8/2008		20,064	0.35	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

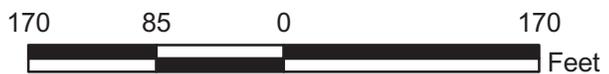
Route 0228

WELL ROAD

FROM ROUTE 0230ZZ (NTAFS RESIDENCE ROADS)
TO END OF PAVEMENT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0228	NONPUBLIC	8/8/2008		3,168	0.06	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

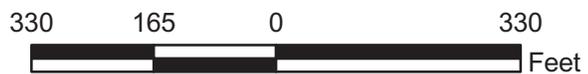
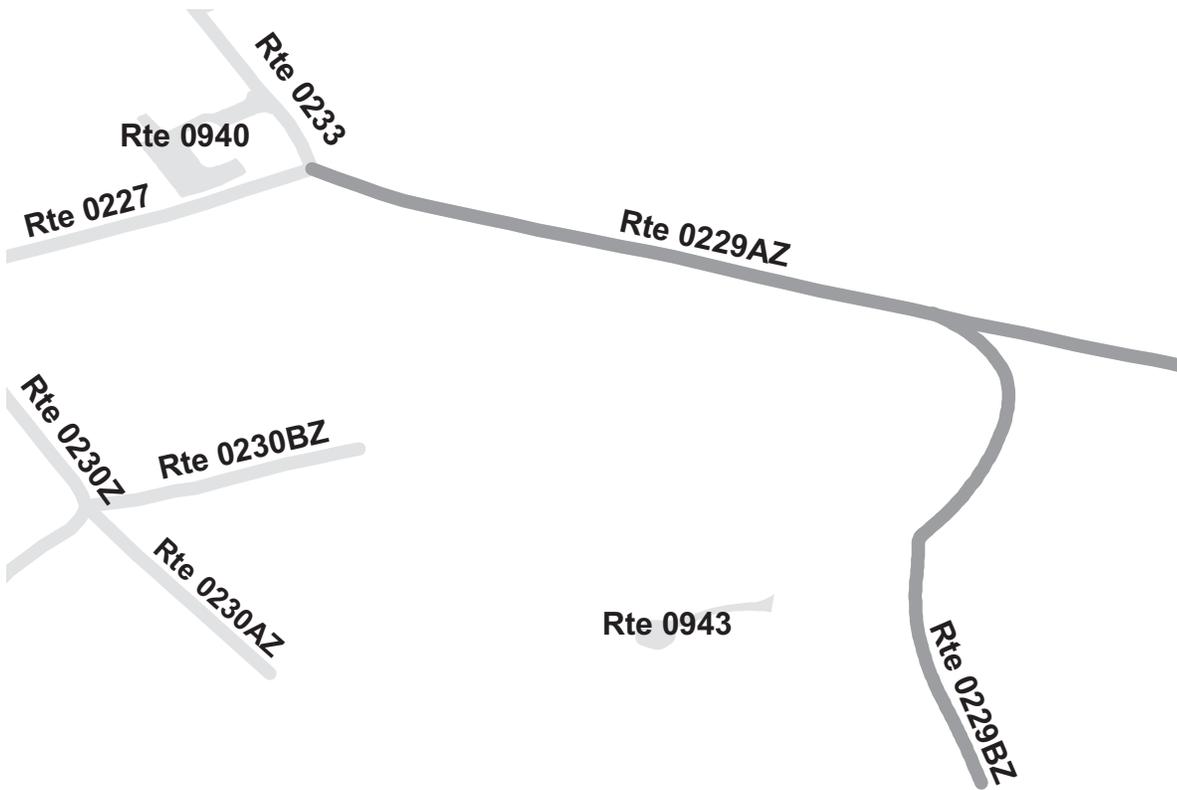
Route 0229ZZ

SEWAGE TREATMENT PARKING ROADS
FROM INTERSECTION OF ROUTE 0227 AND ROUTE 0233
TO END

Summary Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0229ZZ	NONPUBLIC	8/8/2008		12,672	0.22	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	SUMMARY/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

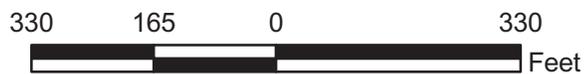
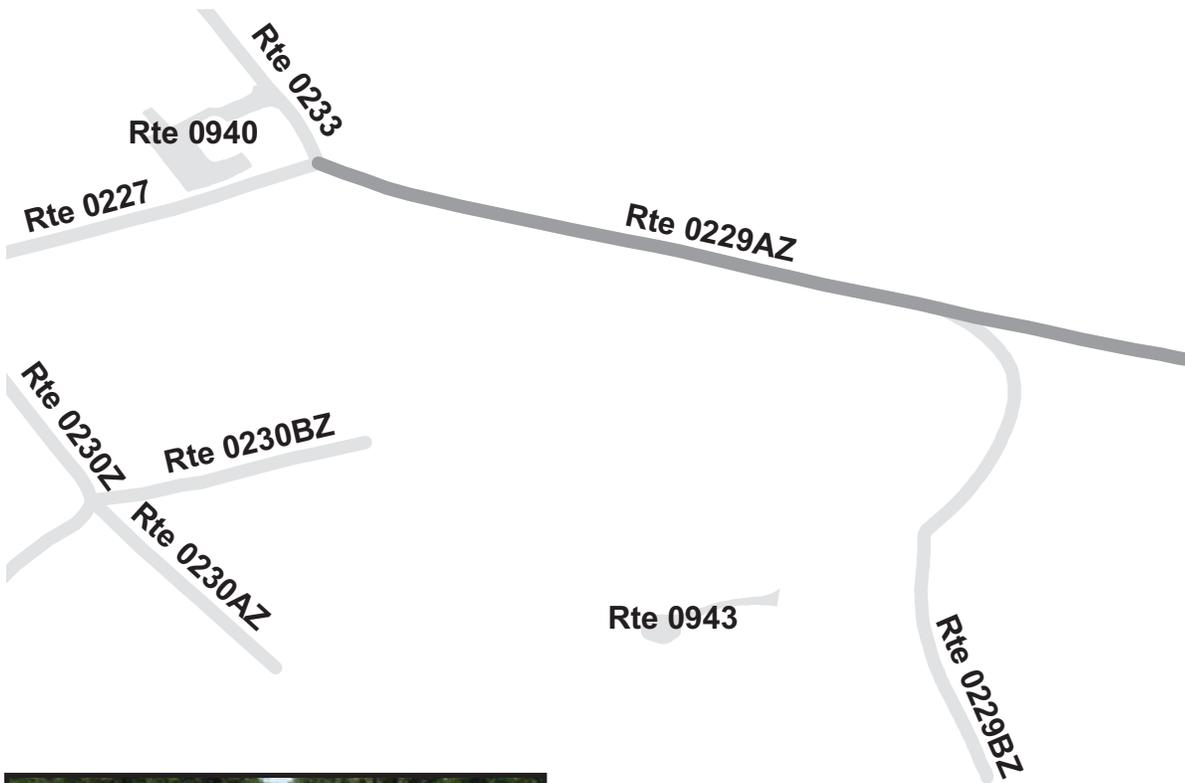
Route 0229AZ

SEWAGE TREATMENT PARKING ROAD A
FROM ROUTE 0227 (NTAFS LANDING ROAD)
TO END OF PAVEMENT

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0229AZ	NONPUBLIC	8/8/2008		7,181	0.12	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

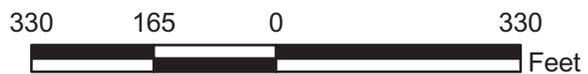
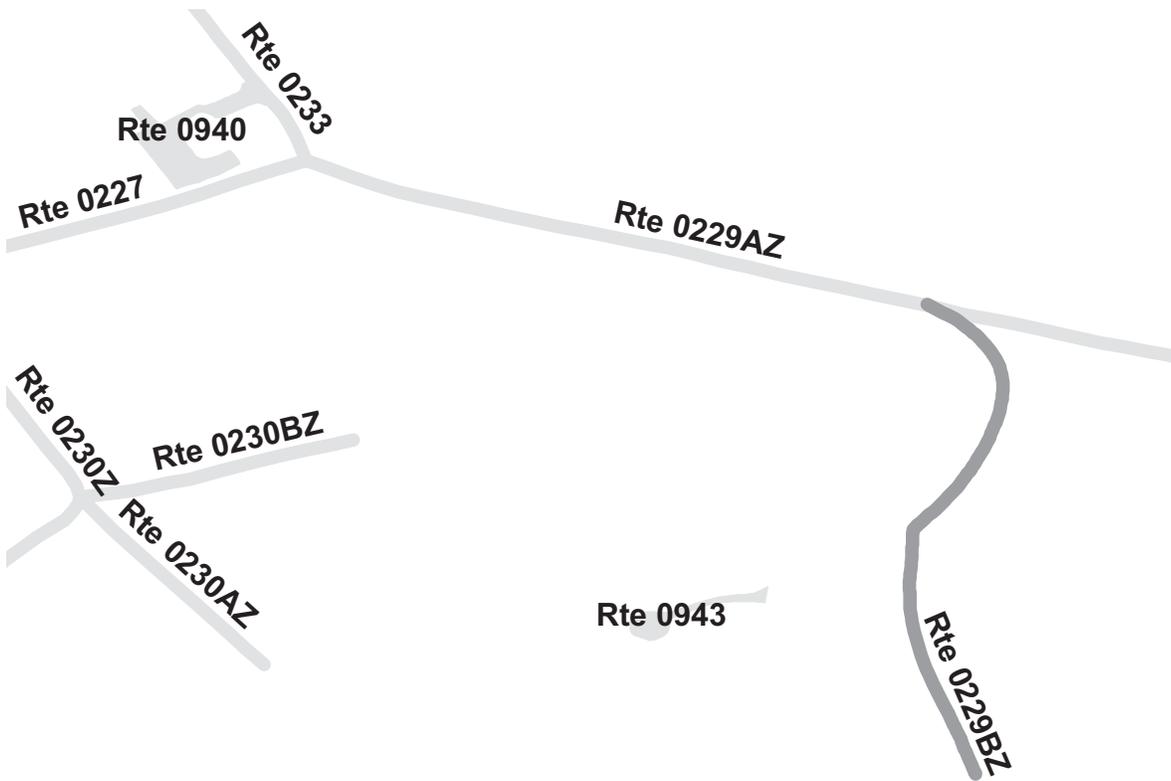
Route 0229BZ

SEWAGE TREATMENT PARKING ROAD B
 FROM ROUTE 0229AZ (SEWAGE TREATMENT PARKING ROAD A)
 TO END OF PAVEMENT

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0229BZ	NONPUBLIC	8/8/2008		5,491	0.10	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

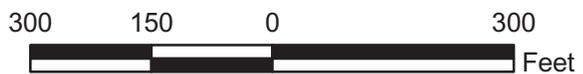
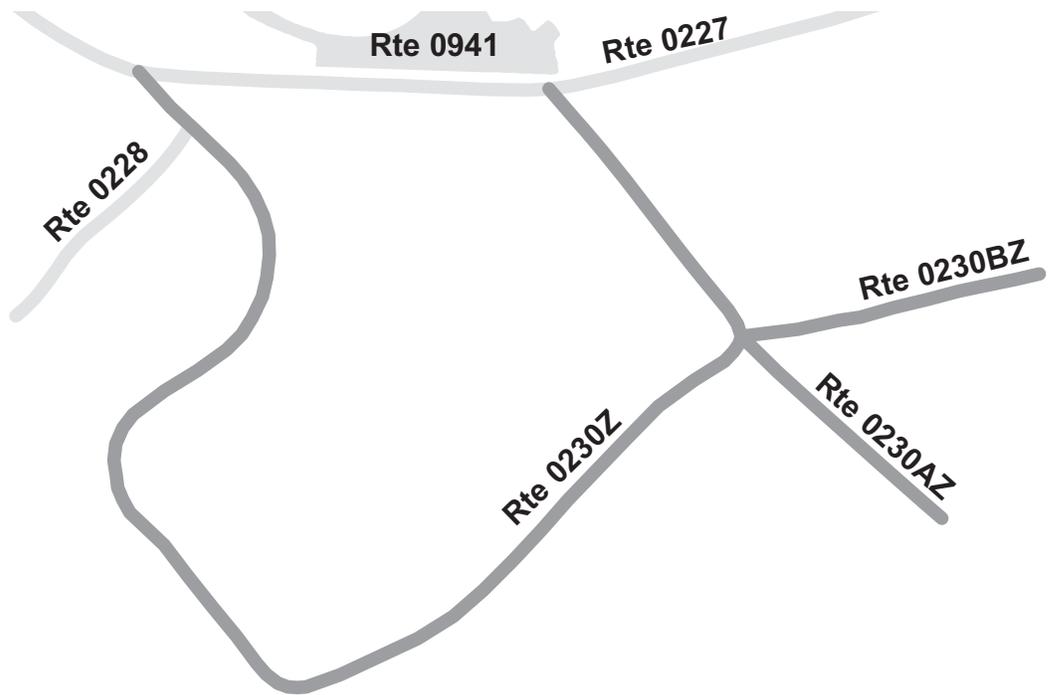
Route 0230ZZ

NTAFS RESIDENCE ROADS
 FROM ROUTE 0227 (NTAFS LANDING ROAD)
 THROUGH RESIDENCE AREA

Summary Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0230ZZ	NONPUBLIC	8/8/2008		46,464	0.80	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	3	0	7	CONCRETE CURB AND GUTTER	CONCRETE CURB	SUMMARY/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

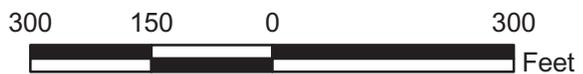
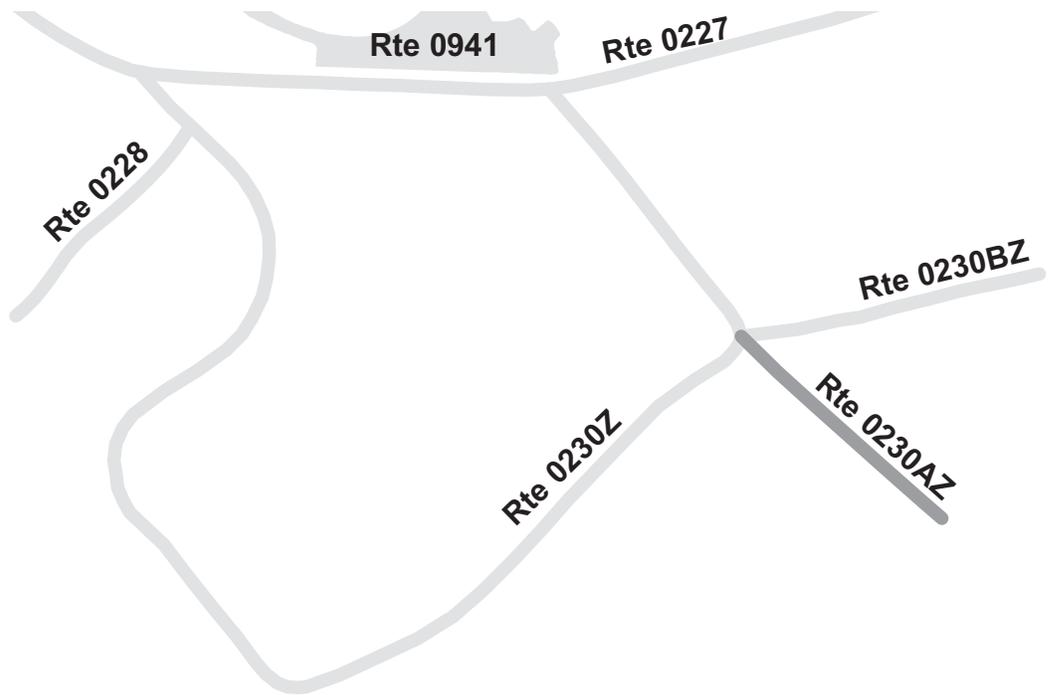
Route 0230AZ

NTAFS RESIDENCE STREET A
 FROM ROUTE 0230Z (NTAFS RESIDENCE ACCESS ROAD)
 TO END OF PAVEMENT

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0230AZ	NONPUBLIC	8/8/2008		5,280	0.09	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	1	CONCRETE CURB AND GUTTER	CONCRETE CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

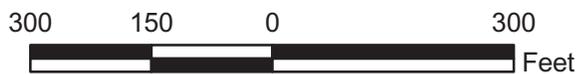
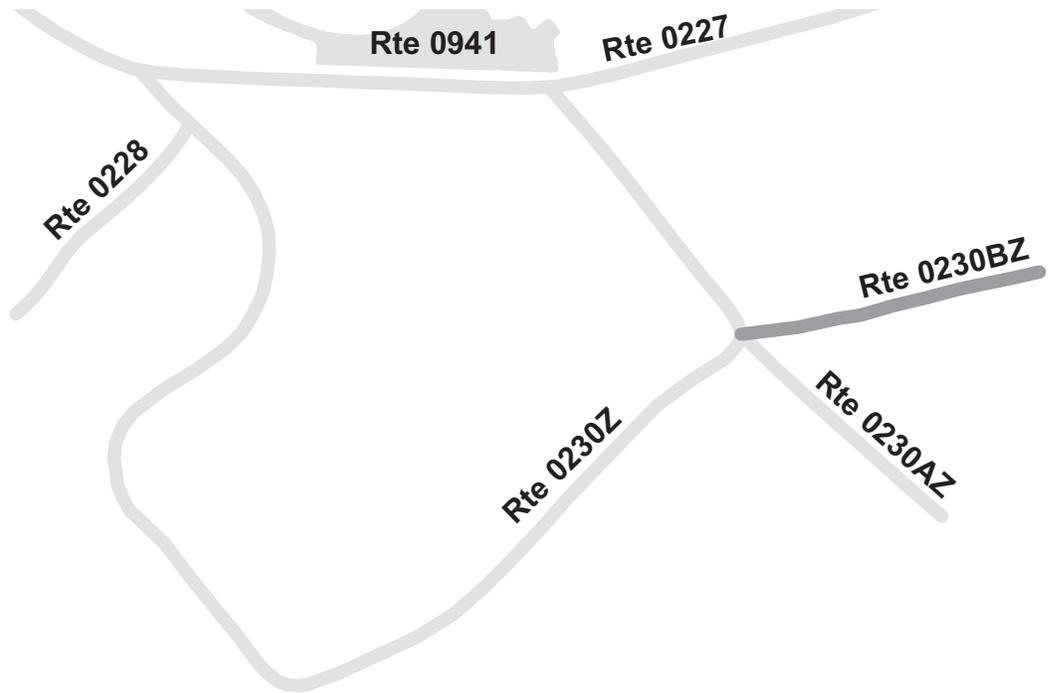
Route 0230BZ

NTAFS RESIDENCE STREET B
 FROM ROUTE 0230Z (NTAFS RESIDENCE ACCESS ROAD)
 TO END OF PAVEMENT

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0230BZ	NONPUBLIC	8/8/2008		5,280	0.09	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

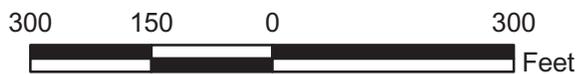
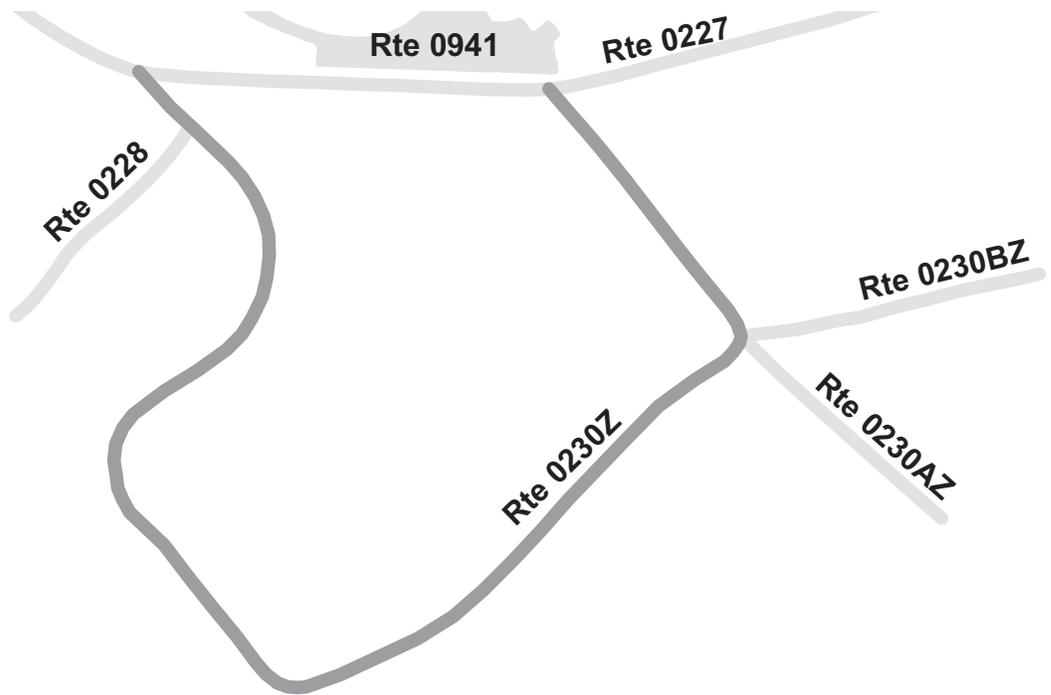
Route 0230Z

NTAFS RESIDENCE ACCESS ROAD
FROM ROUTE 0227 (NTAFS LANDING ROAD)
TO ROUTE 0227 (NTAFS LANDING ROAD)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0230Z	NONPUBLIC	8/8/2008		35,904	0.62	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	0	5	NO CURB AND GUTTER	CONCRETE CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0233

NTAFS FUEL HOUSE ROAD

FROM ROUTE 0232 (NTAFS ACCESS ROAD) AT MP 0.15 (ON RIGHT)
TO INTERSECTION WITH ROUTE 0227 AND ROUTE 0229ZZ

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0233	NONPUBLIC	8/8/2008		8,448	0.15	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	1	1	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



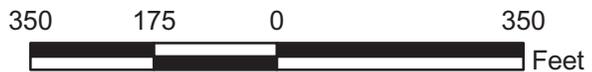
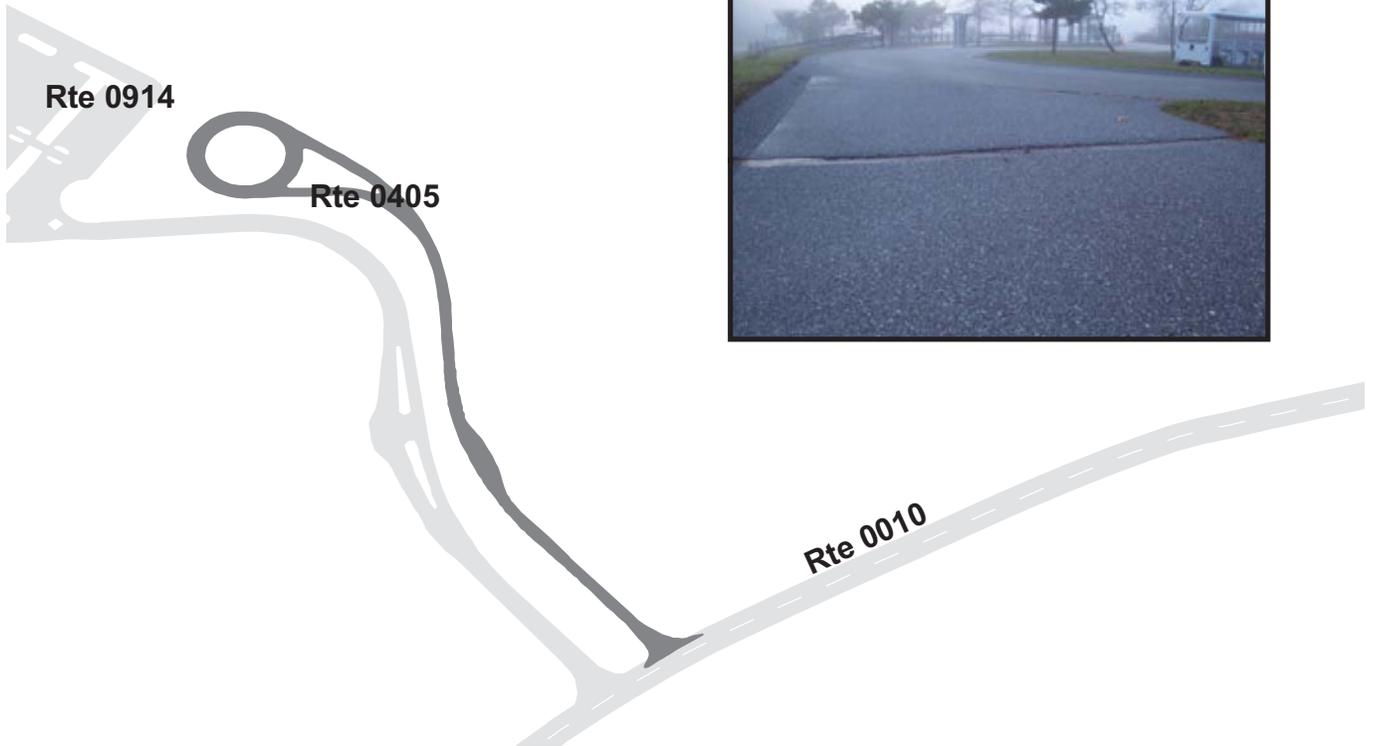
CAPE COD NATIONAL SEASHORE

Route 0405

COAST GUARD BEACH SHUTTLE PICKUP ROUTE
FROM ROUTE 0010 (DOANE ROAD) AT MP 0.43 (ON LEFT)
TO END OF LOOP

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0405	PUBLIC	11/14/2008		21,896	0.38	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	1	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0407ZZ

PROVINCE LANDS RESIDENCE ROADS

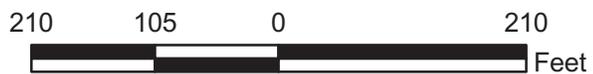
FROM ROUTE 0014 (RACE POINT ROAD) AT MP 0.08 (ON RIGHT)

THROUGH RESIDENCE AREA

Summary Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0407ZZ	PUBLIC	11/14/2008		5,280	0.33	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	3	N/A	N/A	SUMMARY/33.07

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

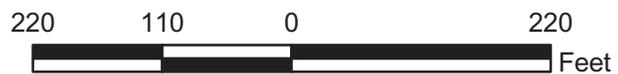
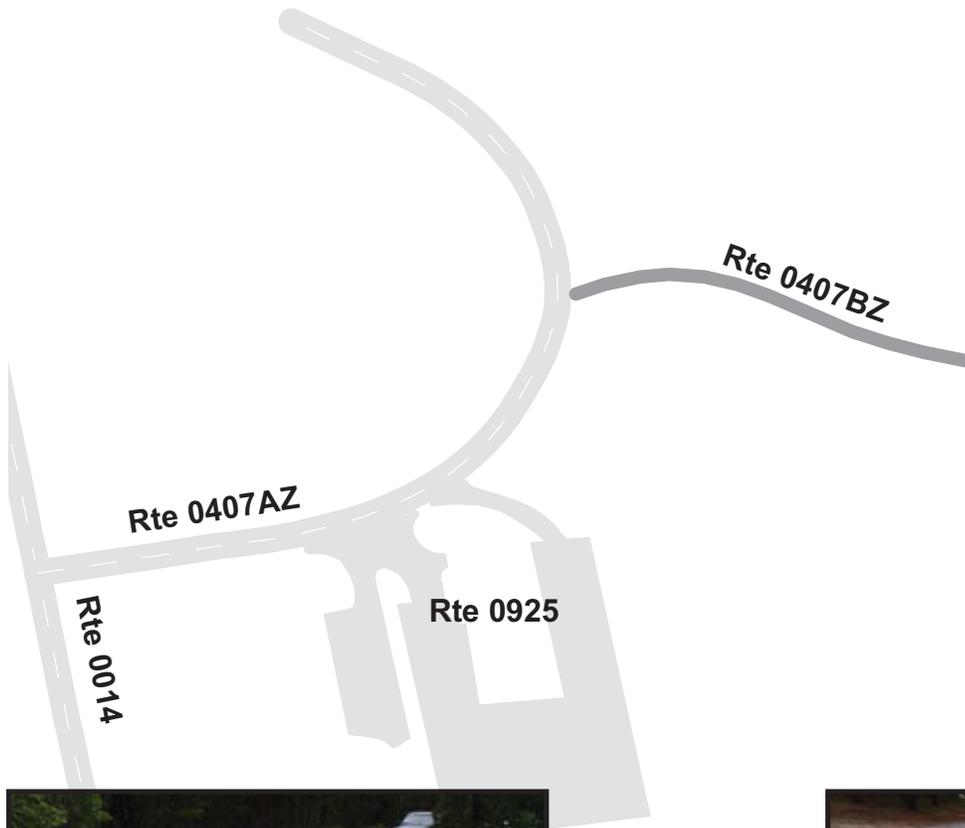
Route 0407BZ

PROVINCE LANDS RESIDENCE ROAD B
 FROM ROUTE 0407AZ (PROVINCE LANDS RESIDENCE ROAD A)
 TO END OF PAVEMENT

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0407BZ	PUBLIC	8/8/2008		5,280	0.09	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



Cape Cod National Seashore



Section 7 **Parking Area Condition Rating Sheets**

CAPE COD NATIONAL SEASHORE

Route 0900

BEECH FOREST PARKING

FROM ROUTE 0014 (RACE POINT ROAD) AT MP 0.13 (ON LEFT)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0900	PUBLIC	8/8/2008		44,989	0.78	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



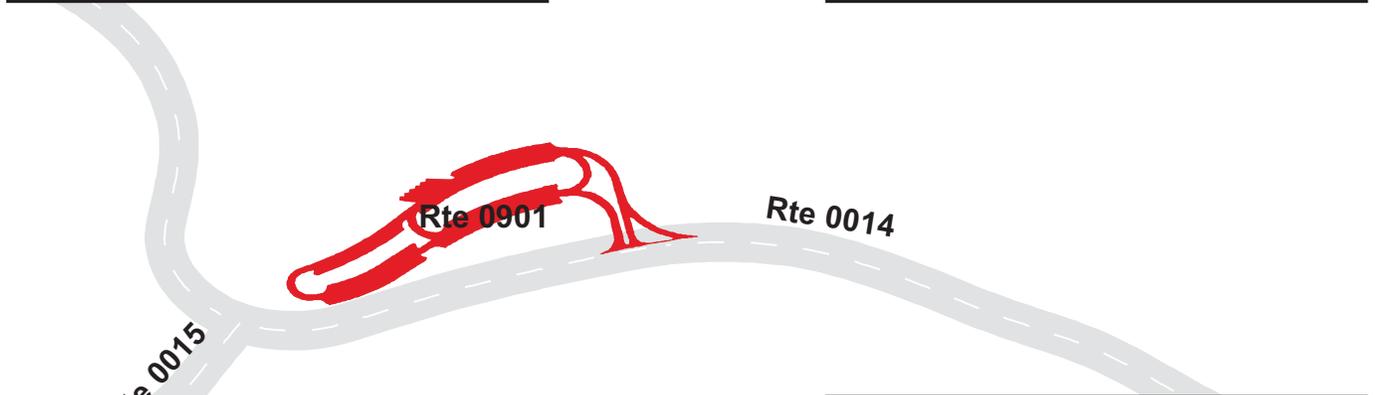
CAPE COD NATIONAL SEASHORE

Route 0901

PROVINCE LANDS VISITOR CENTER PARKING
 FROM ROUTE 0014 (RACE POINT ROAD) AT MP 1.00 (ON RIGHT)
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901	PUBLIC	8/8/2008		96,344	1.66	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	9	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0902

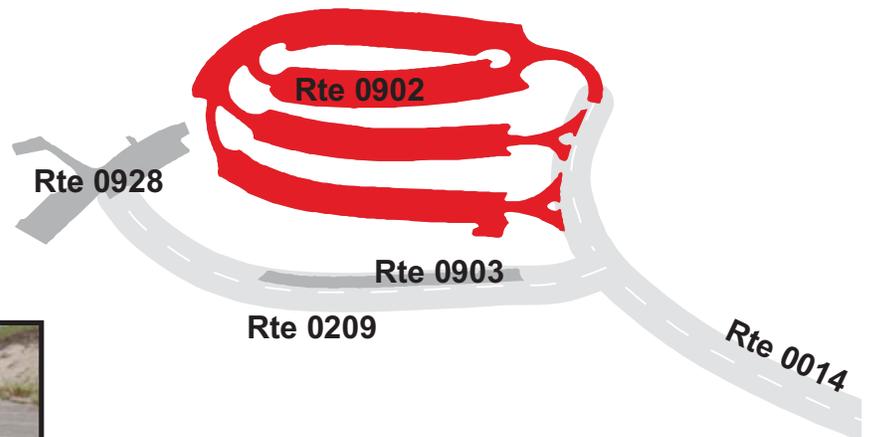
RACE POINT BEACH PARKING

FROM ROUTE 0014 (RACE POINT ROAD) AT MP 1.90 (ON LEFT)

TO ROUTE 0014 (RACE POINT ROAD) AT END

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902	PUBLIC	8/8/2008		139,406	2.40	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	ASPHALT & CONCRETE	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

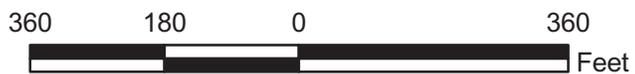
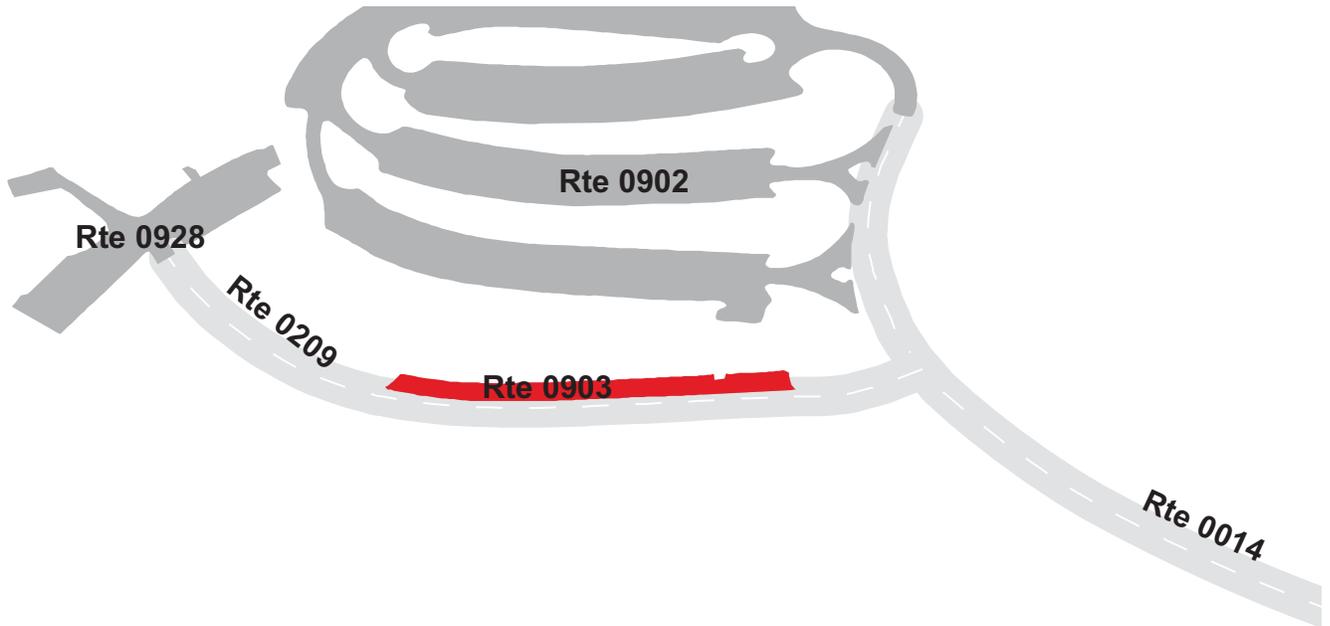
Route 0903

RACE POINT AIR STATION PARKING

ADJACENT TO ROUTE 0209 (RACE POINT COAST GUARD STATION ROAD) AT MP 0.06 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0903	PUBLIC	8/8/2008		9,718	0.17	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

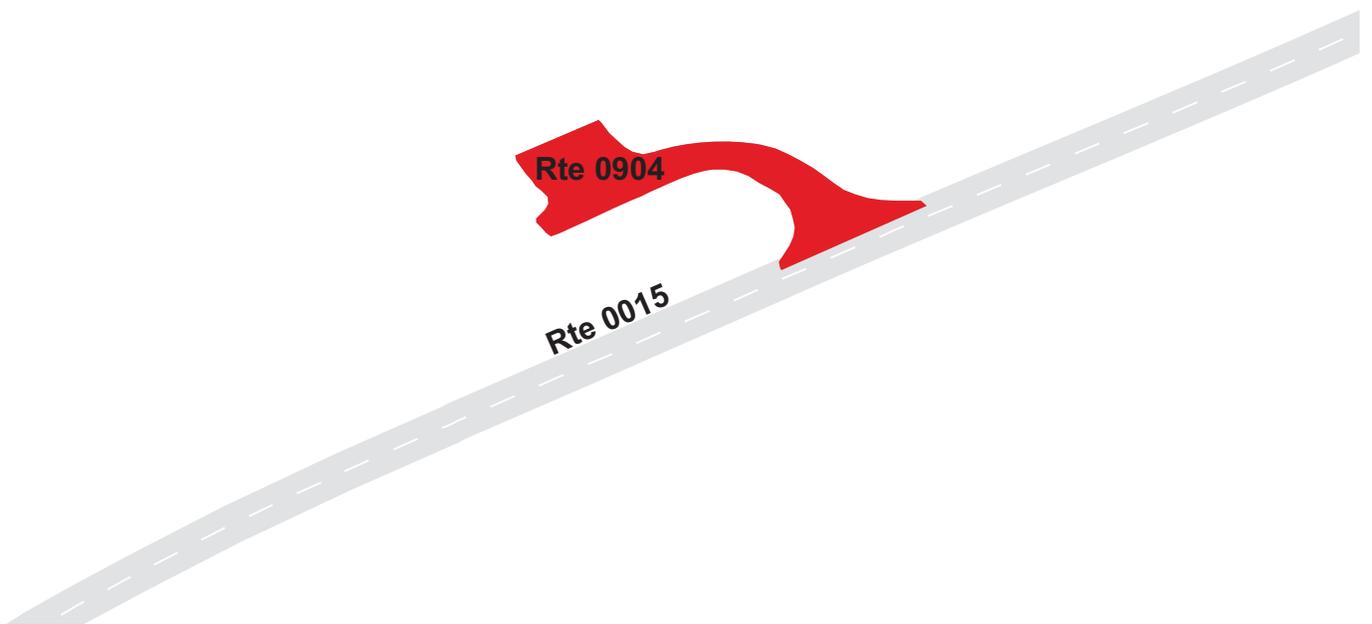
Route 0904

PROVINCE LANDS ROAD PARKING

FROM ROUTE 0015 (PROVINCE LANDS ROAD) AT MP 0.41 (ON RIGHT)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0904	PUBLIC	8/8/2008		4,769	0.08	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0905AZZ

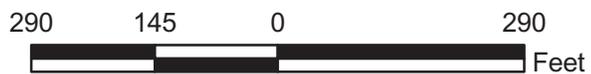
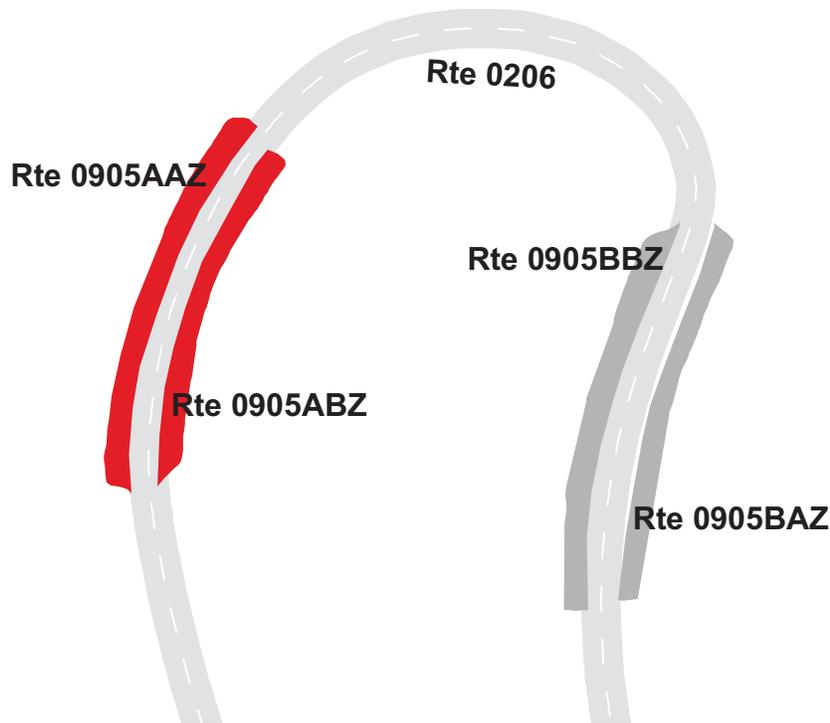
PILGRIM HEIGHTS PICNIC AREA PARKING AREAS WEST

ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.44 (ON LEFT AND RIGHT)

Summary Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905AZZ	PUBLIC	8/8/2008		17,424	0.30	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	SUMMARY/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

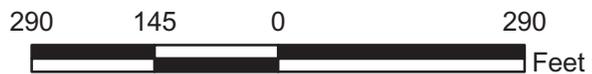
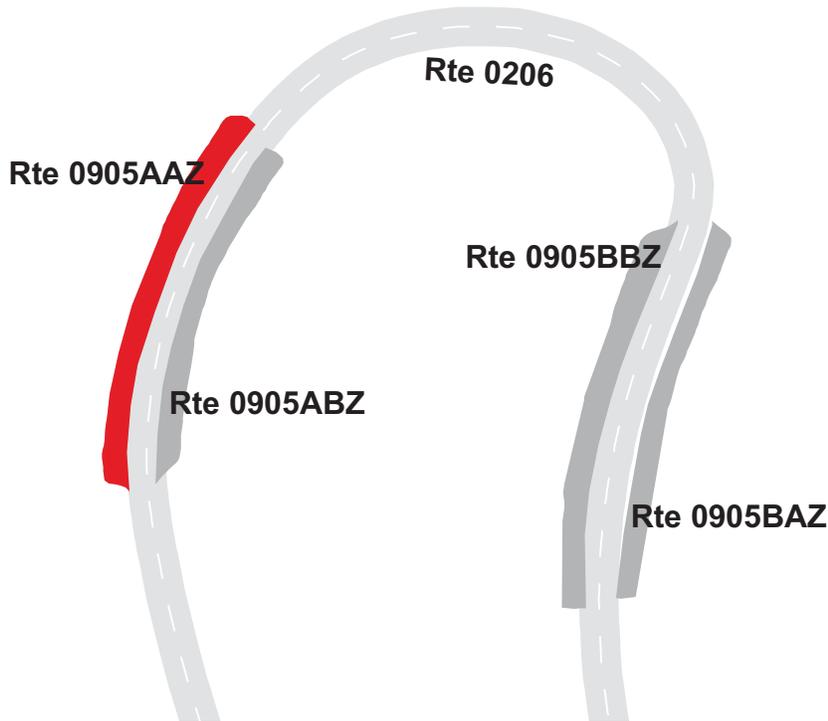
Route 0905AAZ

PILGRIM HEIGHTS PICNIC AREA PARKING WEST A
 ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.44 (ON LEFT)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905AAZ	PUBLIC	8/8/2008		9,682	0.17	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0905ABZ

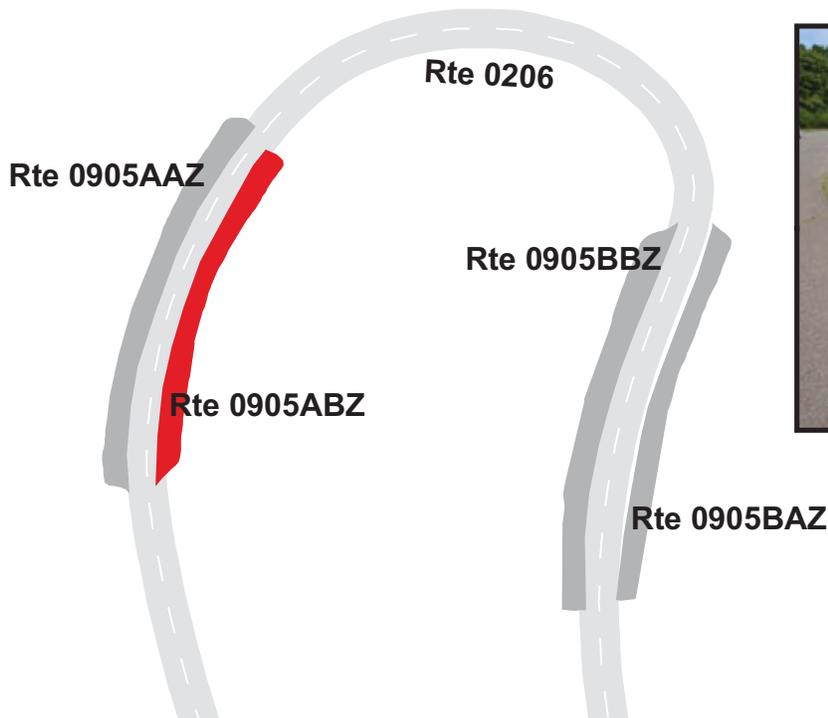
PILGRIM HEIGHTS PICNIC AREA PARKING WEST B

ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.44 (ON RIGHT)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905ABZ	PUBLIC	8/8/2008		7,742	0.13	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0905BZZ

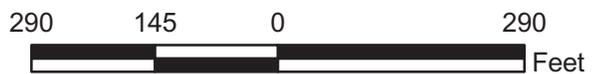
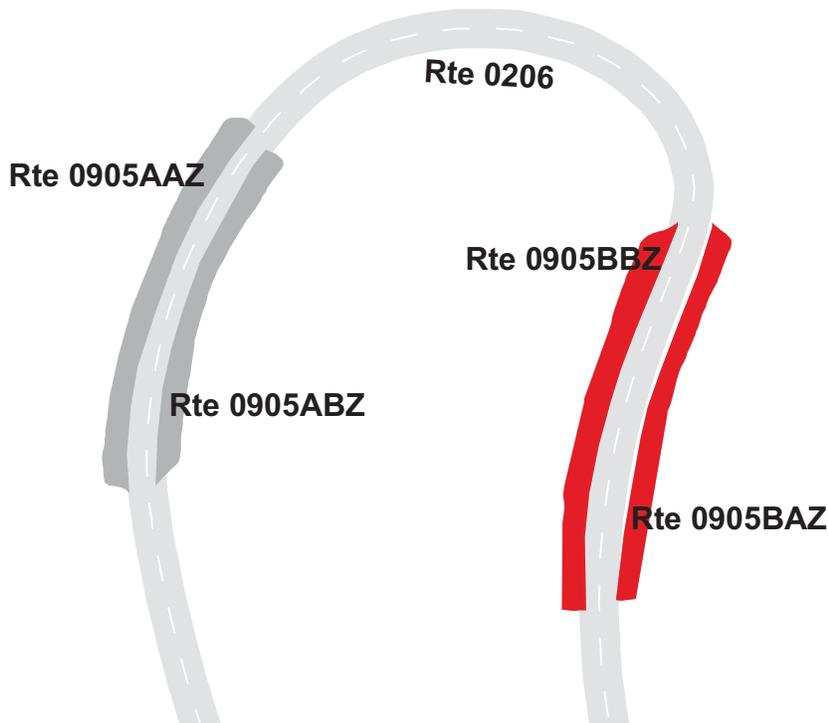
PILGRIM HEIGHTS PICNIC AREA PARKING AREAS EAST

ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.65 (ON LEFT AND RIGHT)

Summary Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905BZZ	PUBLIC	8/8/2008		18,528	0.32	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	SUMMARY/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

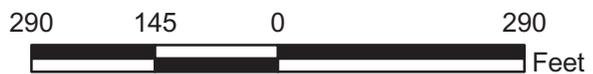
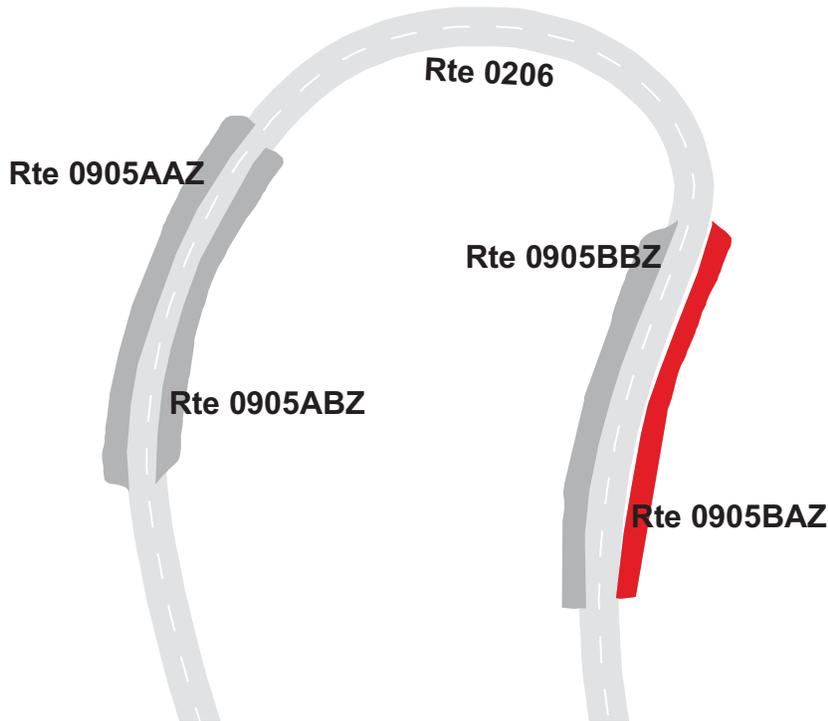
Route 0905BAZ

PILGRIM HEIGHTS PICNIC AREA PARKING EAST A
 ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.65 (ON LEFT)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905BAZ	PUBLIC	8/8/2008		8,266	0.14	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0905BBZ

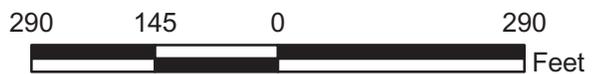
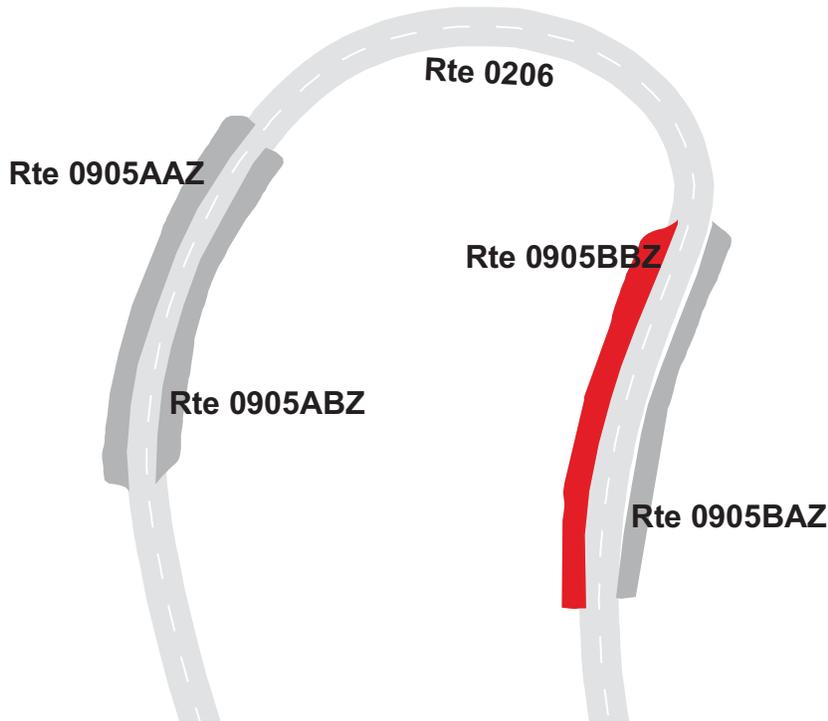
PILGRIM HEIGHTS PICNIC AREA PARKING EAST B

ADJACENT TO ROUTE 0206 (PILGRIM HEIGHTS ROAD) AT MP 0.65 (ON RIGHT)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905BBZ	PUBLIC	8/8/2008		10,262	0.18	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0906

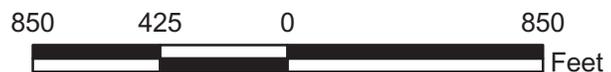
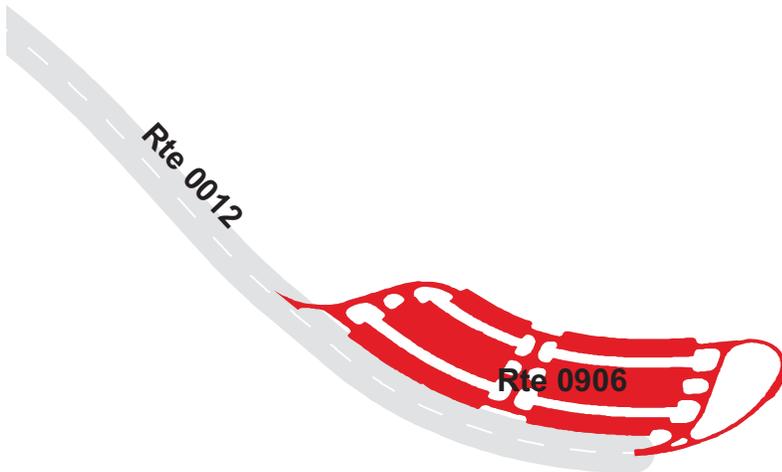
MARCONI BEACH PARKING

FROM ROUTE 0012 (MARCONI BEACH ROAD) AT MP 1.42 (ON LEFT)

TO ROUTE 0012 (MARCONI BEACH ROAD) AT END

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906	PUBLIC	8/7/2008		221,405	3.81	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	8	0	0	NO CURB AND GUTTER	OTHER SEE REMARKS	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0907

MARCONI STATION SITE PARKING
 FROM ROUTE 0013 (MARCONI SITE ROAD) AT END
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907	PUBLIC	8/7/2008		23,393	0.40	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0908

PARK HEADQUARTERS PARKING

FROM ROUTE 0013 (MARCONI SITE ROAD) AT MP 0.14 (ON LEFT)

TO ROUTE 0013 (MARCONI SITE ROAD) AT MP 0.22 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908	PUBLIC	8/7/2008		22,880	0.39	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0909ZZ

MARCONI MAINTENANCE PARKING AREAS

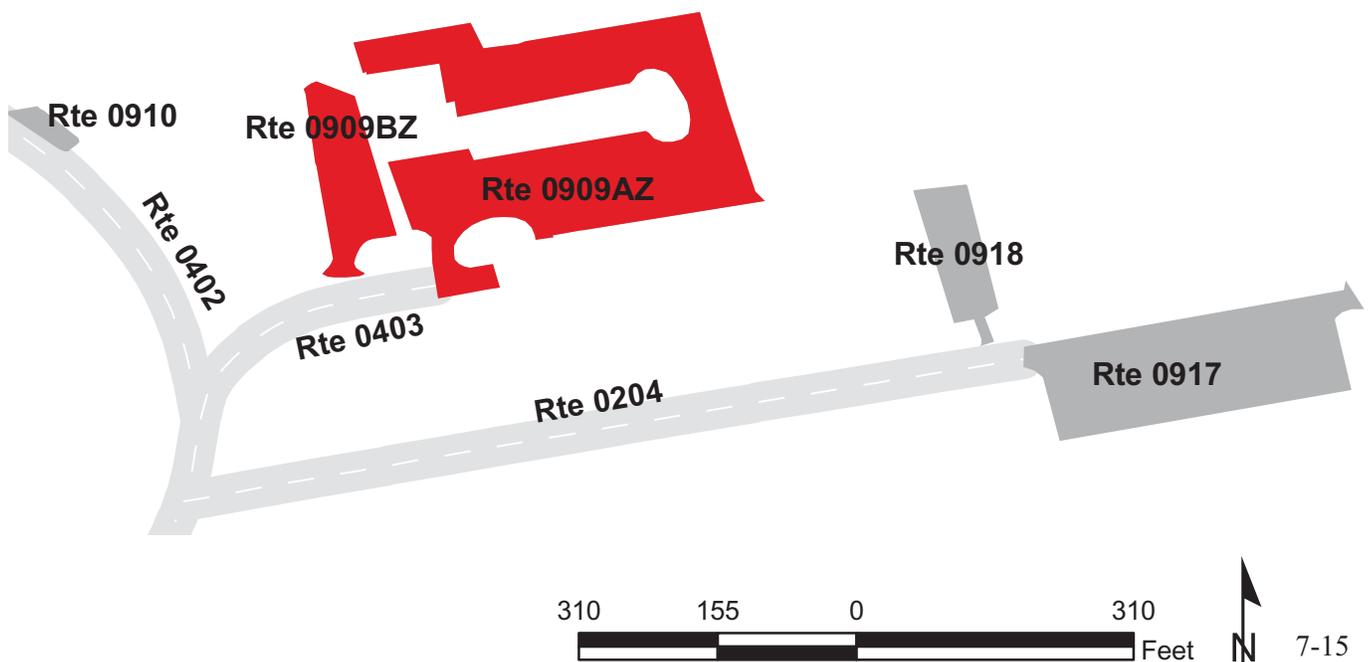
FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.10 (ON LEFT)

TO ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT END

Summary Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909ZZ	NONPUBLIC	8/7/2008		57,752	0.99	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	2	NO CURB AND GUTTER	CONCRETE CURB	SUMMARY/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

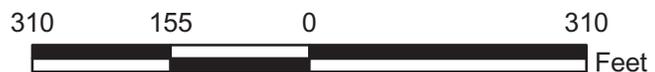
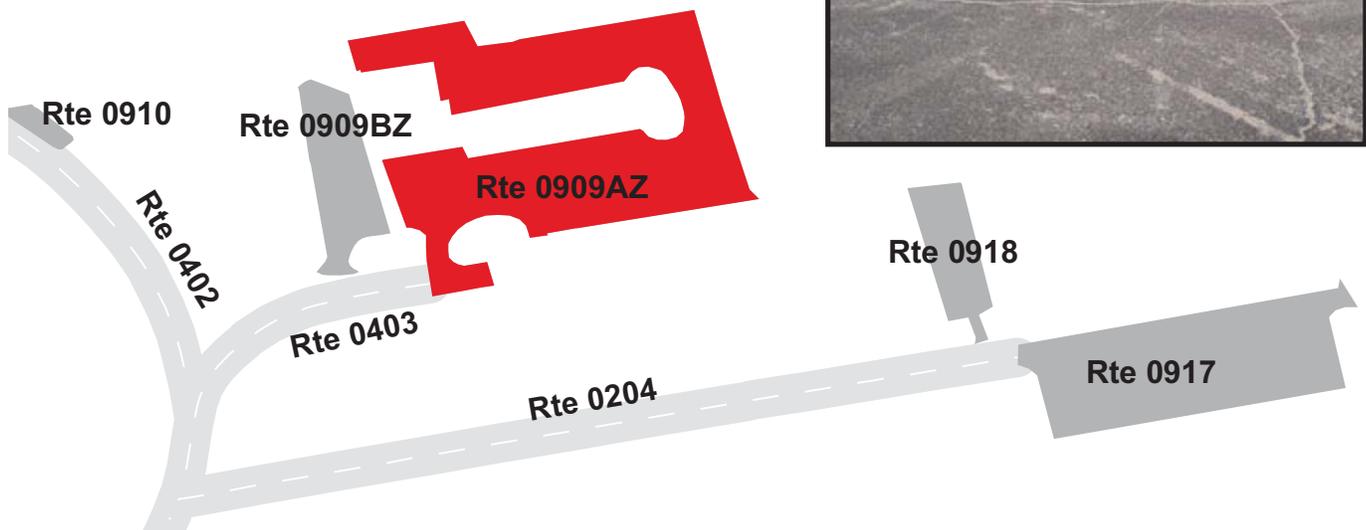
Route 0909AZ

MARCONI MAINTENANCE PARKING A
 FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT END
 TO PARKING

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909AZ	NONPUBLIC	8/7/2008		48,461	0.83	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	2	NO CURB AND GUTTER	CONCRETE CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0909BZ

MARCONI MAINTENANCE PARKING B

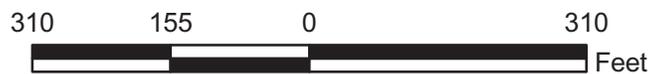
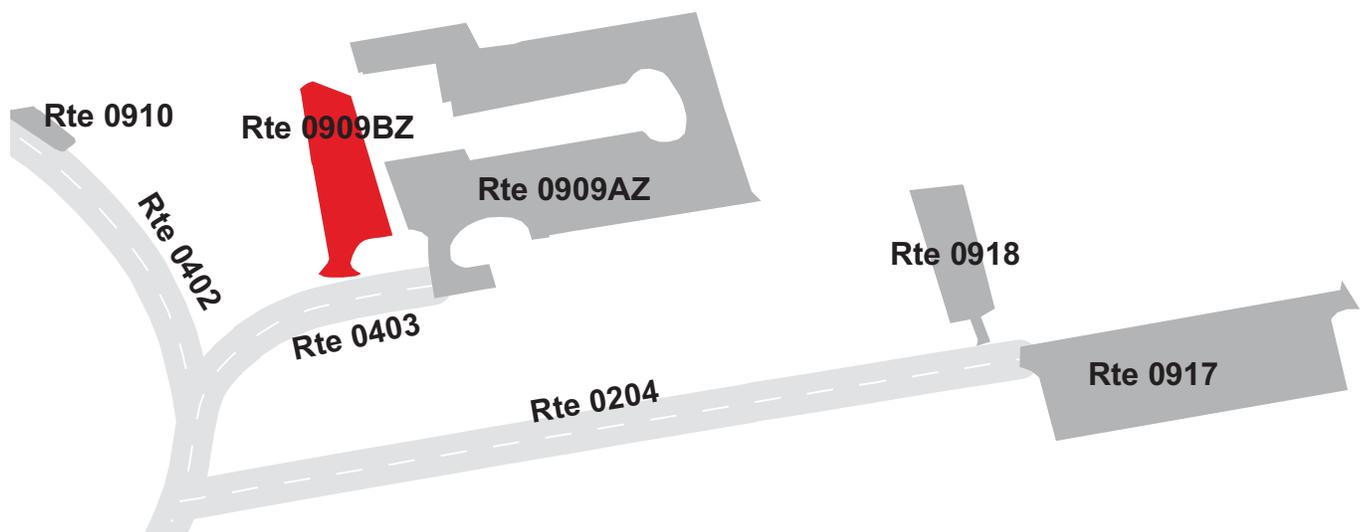
FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.10 (ON LEFT)

TO PARKING

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909BZ	NONPUBLIC	8/7/2008		9,292	0.16	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

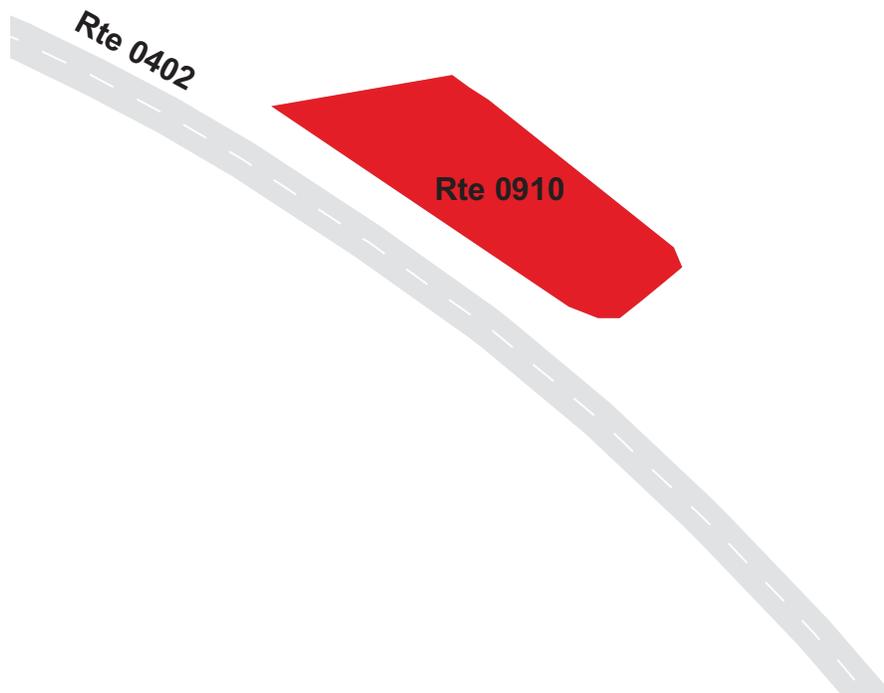
Route 0910

MARCONI RESIDENCE ROAD PARKING

ADJACENT TO ROUTE 0402 (MARCONI RESIDENCE ROAD) AT MP 0.06 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0910	NONPUBLIC	8/7/2008		1,331	0.02	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0911A

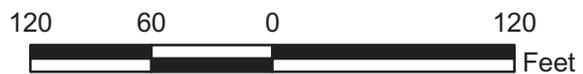
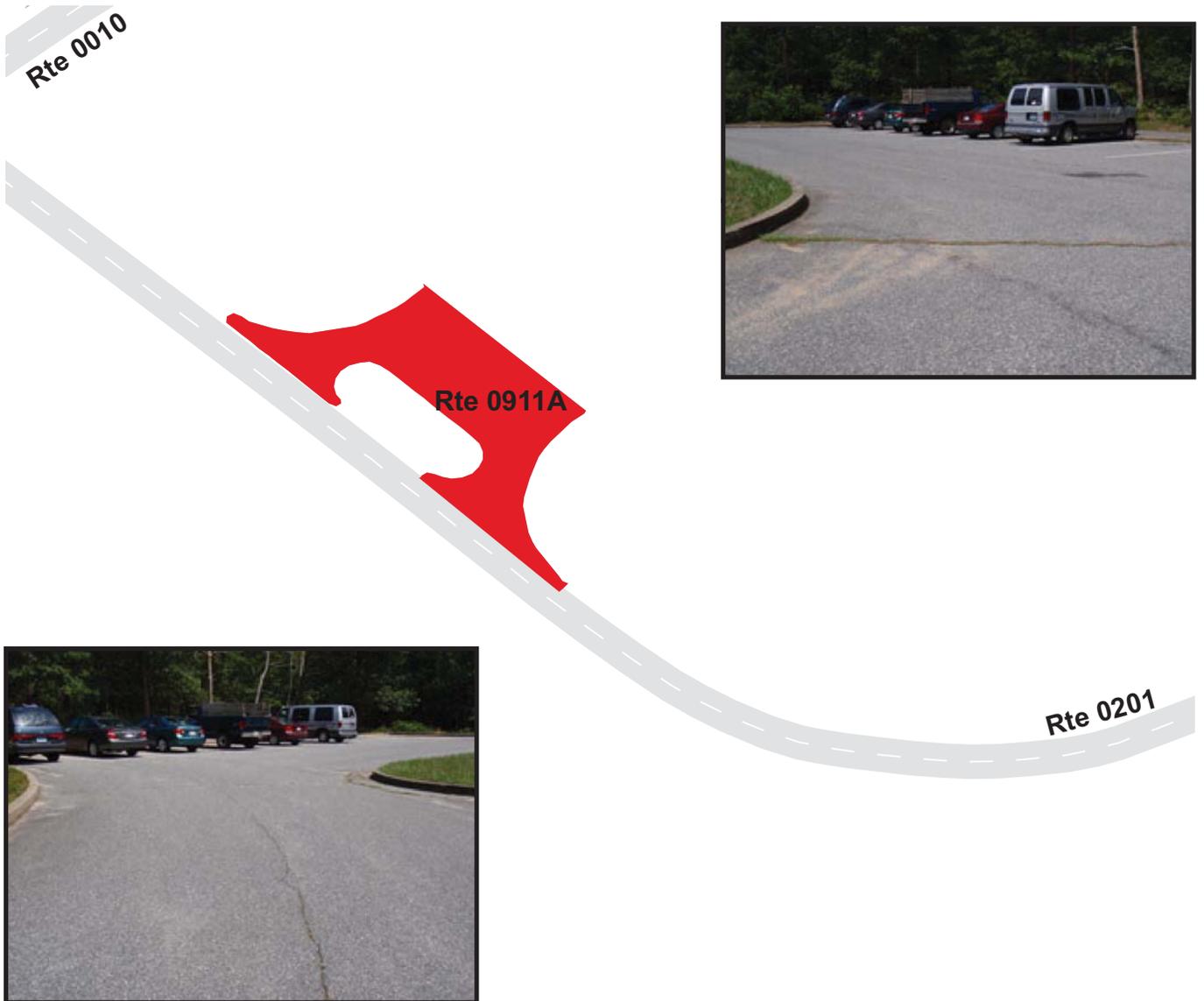
DOANE ROCK PICNIC AREA A PARKING

FROM ROUTE 0201 (DOANE ROCK PICNIC AREA ROAD) AT MP 0.04 (ON LEFT)

TO ROUTE 0201 (DOANE ROCK PICNIC AREA ROAD) AT MP 0.06 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911A	PUBLIC	8/7/2008		7,349	0.13	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



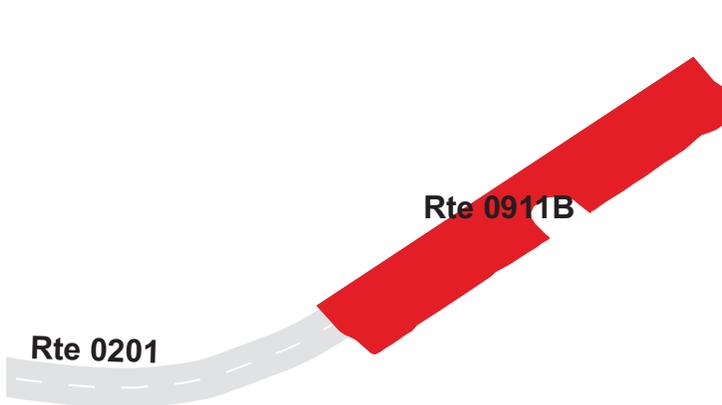
CAPE COD NATIONAL SEASHORE

Route 0911B

DOANE ROCK PICNIC AREA B PARKING
 FROM ROUTE 0201 (DOANE ROCK PICNIC AREA ROAD) AT END
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911B	PUBLIC	8/7/2008		14,506	0.25	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

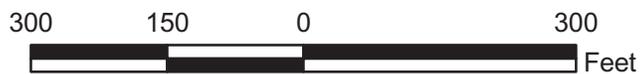
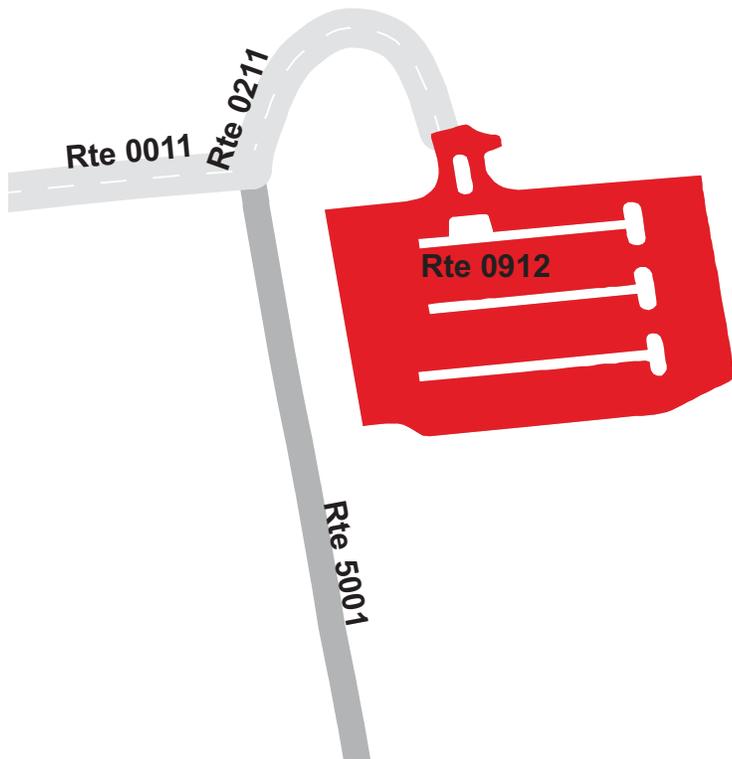
Route 0912

NAUSET LIGHT BEACH PARKING

FROM ROUTE 0211 (NAUSET LIGHT BEACH ACCESS ROAD) AT END
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0912	PUBLIC	8/7/2008		73,134	1.26	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	1	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



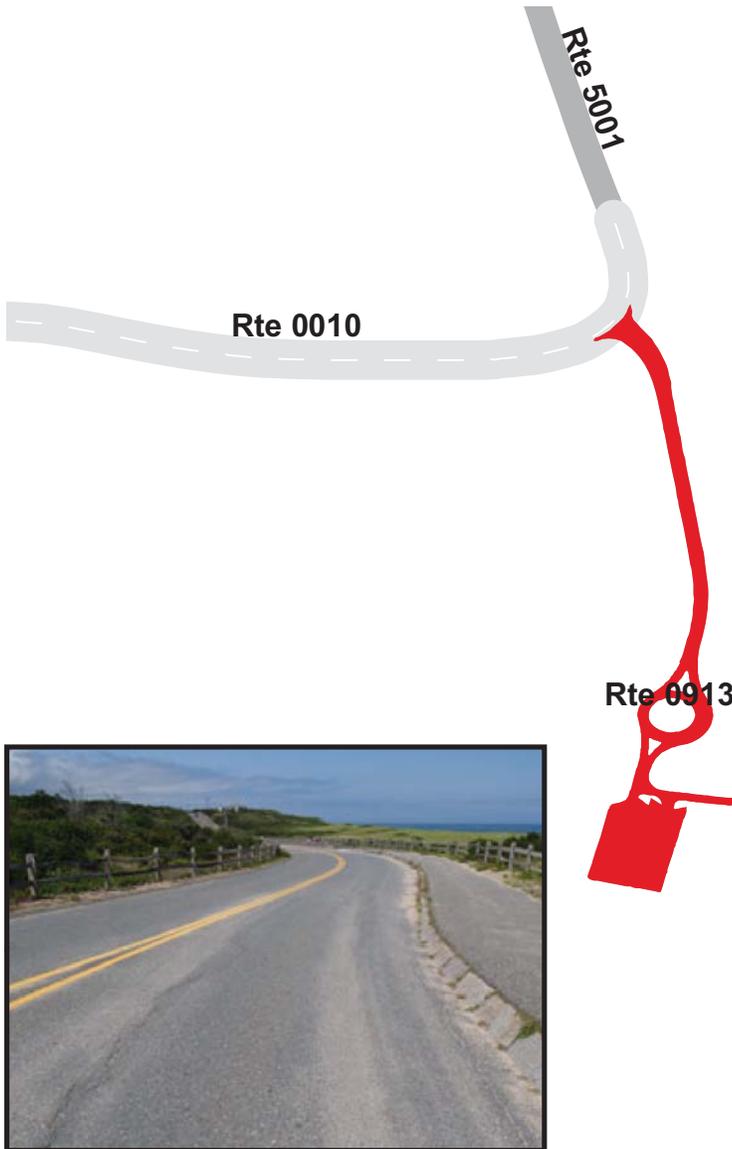
CAPE COD NATIONAL SEASHORE

Route 0913

COAST GUARD BEACH ENVIRONMENTAL EDUCATION CENTER PARKING
 FROM ROUTE 0010 (DOANE ROAD) AT MP 0.97 (ON RIGHT)
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0913	PUBLIC	8/7/2008		57,492	0.99	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	3	0	1	NO CURB AND GUTTER	CONCRETE & STONE CURB	FAIR/73

* Lane miles are based on 11' lane widths



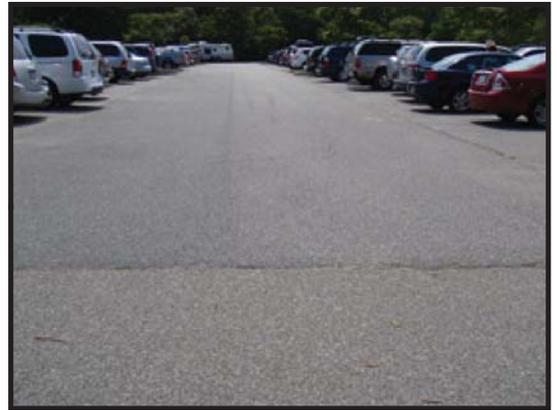
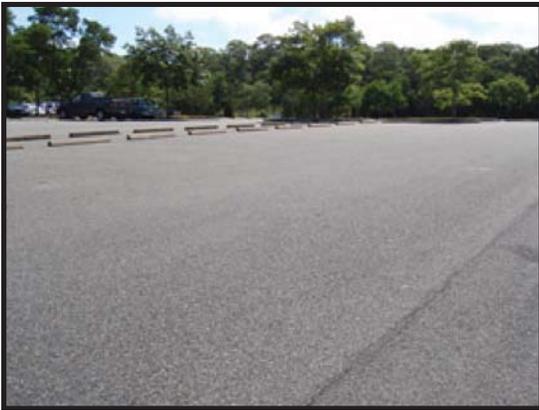
CAPE COD NATIONAL SEASHORE

Route 0914

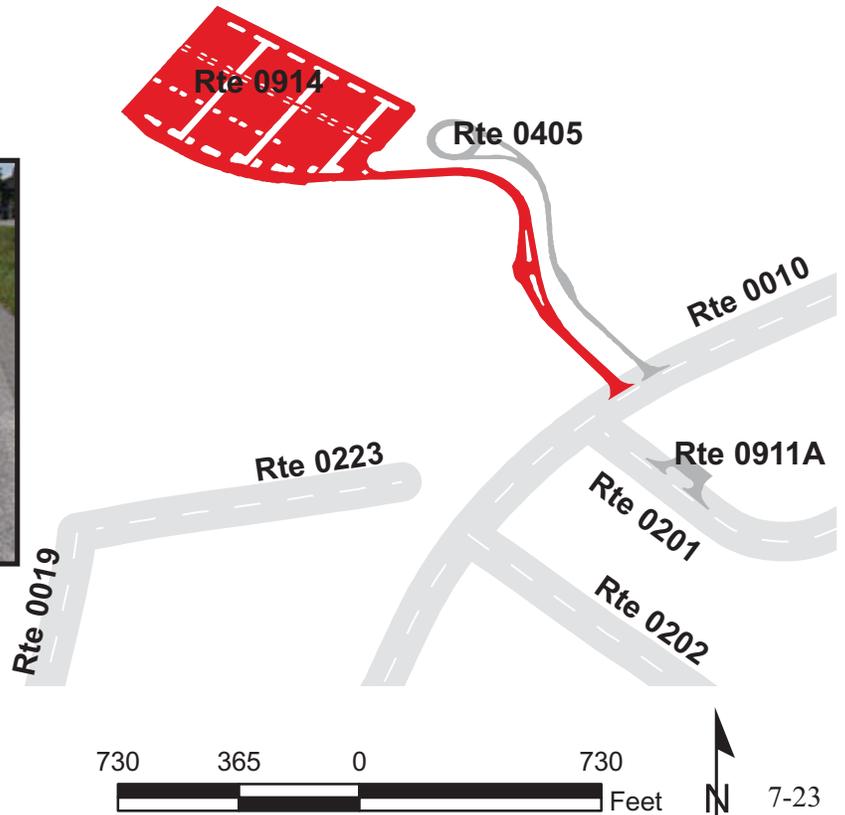
COAST GUARD BEACH BUS STOP PARKING
 FROM ROUTE 0010 (DOANE ROAD) AT MP 0.42 (ON LEFT)
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0914	PUBLIC	8/7/2008		209,582	3.61	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	1	0	NO CURB AND GUTTER	CONCRETE & STONE CURB	FAIR/73

* Lane miles are based on 11' lane widths



Rte 0931



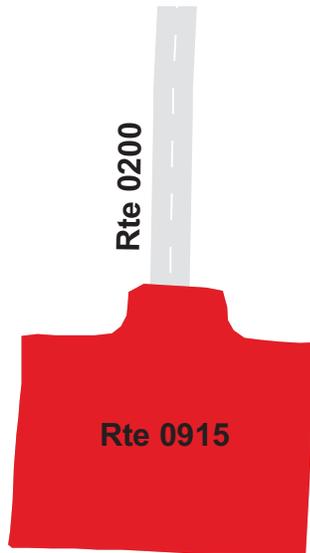
CAPE COD NATIONAL SEASHORE

Route 0915

FORT HILL UPPER PARKING AREA
 FROM ROUTE 0200 (FORT HILL AREA ROAD) AT END
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0915	PUBLIC	8/7/2008		4,130	0.07	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0916

FORT HILL LOWER PARKING AREA

FROM ROUTE 0200 (FORT HILL AREA ROAD) AT MP 0.12 (ON LEFT)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0916	PUBLIC	8/7/2008		4,736	0.08	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



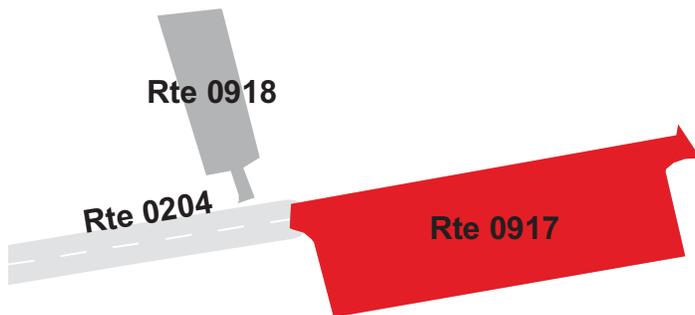
CAPE COD NATIONAL SEASHORE

Route 0917

PARK HEADQUARTERS EMPLOYEE PARKING
FROM ROUTE 0204 (MARCONI EMPLOYEE PARKING ROAD) AT END
TO HELIPAD

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0917	PUBLIC	8/7/2008		28,389	0.49	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

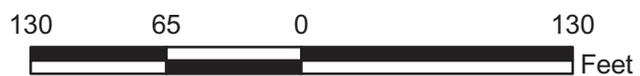
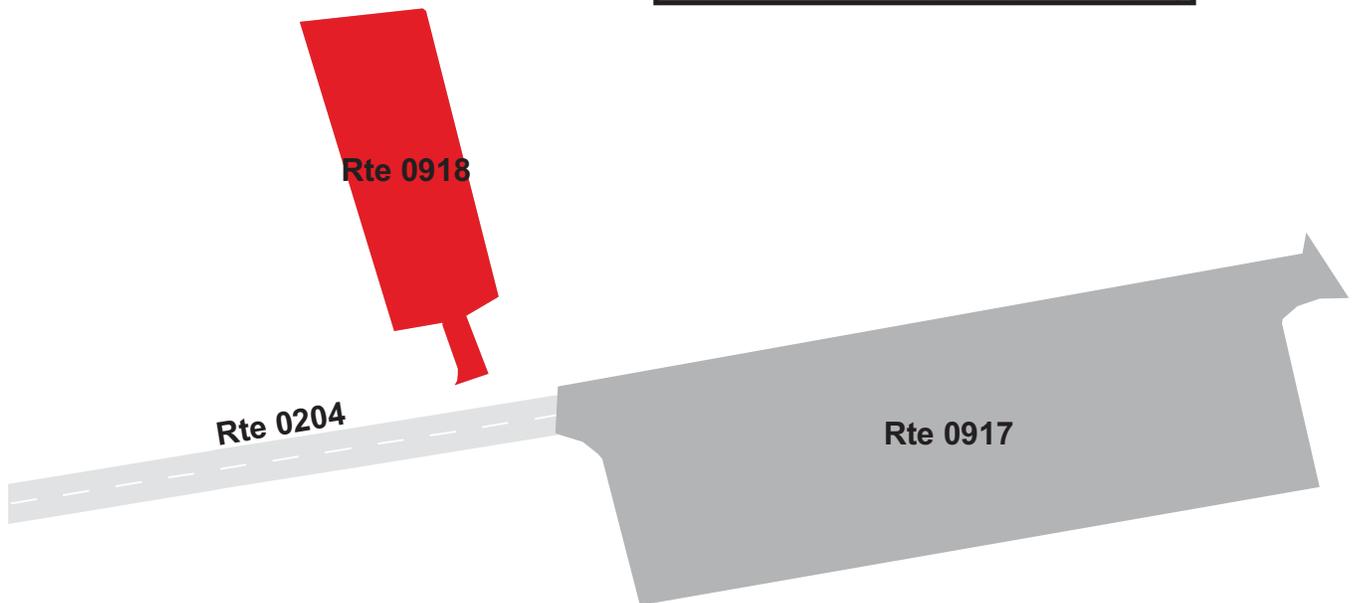
Route 0918

OLD VEHICLE STORAGE AREA

FROM ROUTE 0204 (MARCONI EMPLOYEE PARKING ROAD) AT MP 0.13 (ON LEFT)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0918	NONPUBLIC	8/7/2008		6,603	0.11	CO
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	POOR/45

* Lane miles are based on 11' lane widths



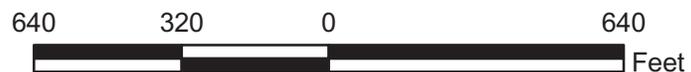
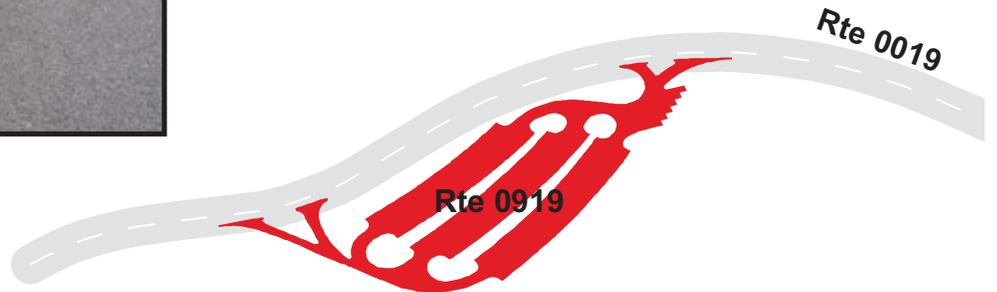
CAPE COD NATIONAL SEASHORE

Route 0919

SALT POND VISITOR CENTER PARKING
 FROM ROUTE 0019 (NAUSET ROAD) AT MP 0.64 (ON LEFT)
 TO ROUTE 0019 (NAUSET ROAD) AT MP 0.80 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0919	PUBLIC	8/7/2008		97,975	1.69	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	9	0	0	NO CURB AND GUTTER	CONCRETE CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0922

NAC LABORATORY PARKING

FROM ROUTE 0231 (NAC LABORATORY ACCESS ROAD) AT END
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0922	PUBLIC	8/8/2008		8,440	0.15	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0925

PROVINCE LANDS MAINTENANCE PARKING

FROM ROUTE 0407AZ (PROVINCE LANDS RESIDENCE ROAD A) AT MP 0.04 (ON RIGHT)

TO ROUTE 0407AZ (PROVINCE LANDS RESIDENCE ROAD A) AT MP 0.05 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0925	NONPUBLIC	8/8/2008		31,875	0.55	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	2	1	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0927

HEAD OF THE MEADOW PARKING

FROM ROUTE 0205 (HEAD OF THE MEADOW BEACH ROAD) AT END TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0927	PUBLIC	8/8/2008		121,191	2.09	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	0	NO CURB AND GUTTER	STONE CURB	EXCELLENT/97

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

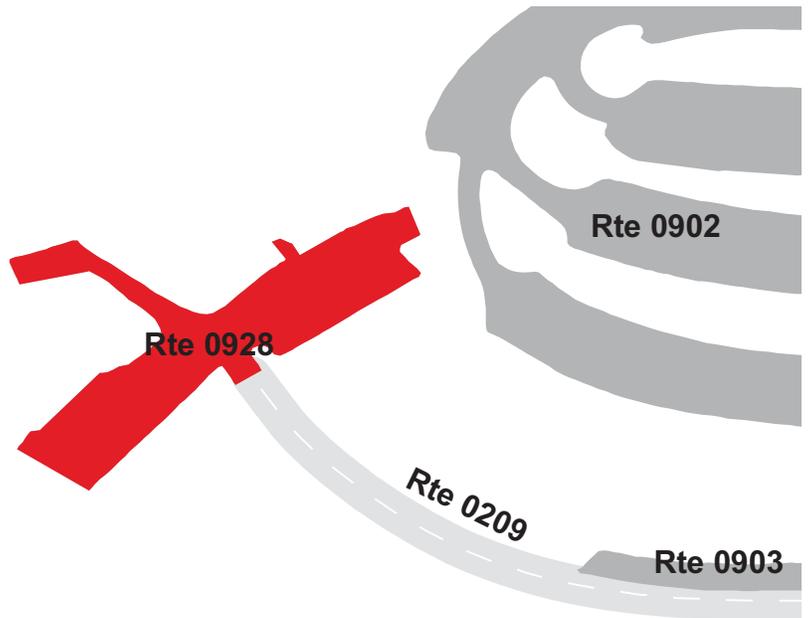
Route 0928

RACE POINT RANGER STATION PARKING

FROM ROUTE 0209 (RACE POINT COAST GUARD STATION ROAD) AT END
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0928	PUBLIC	8/8/2008		21,319	0.37	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	1	1	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

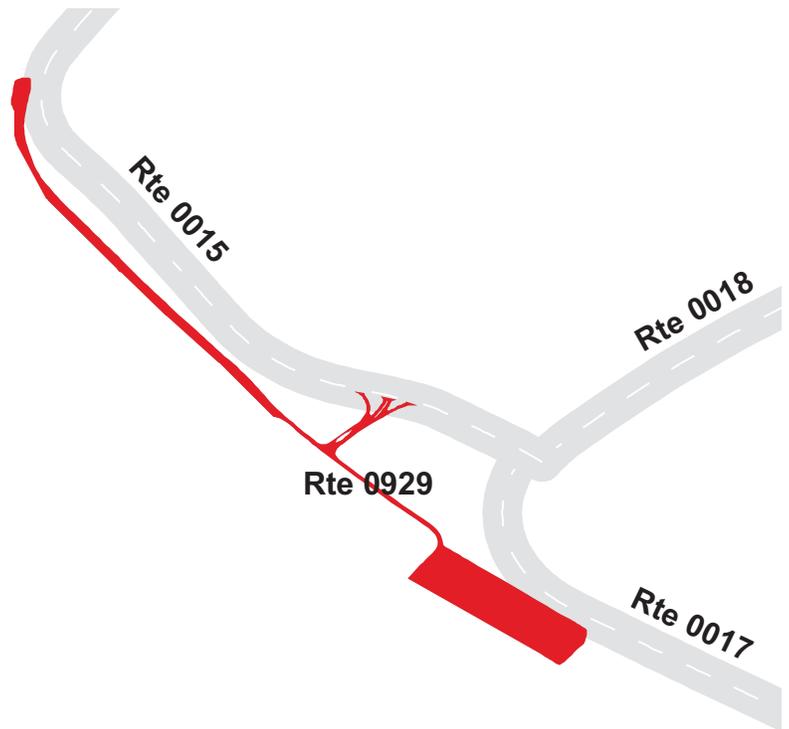
Route 0929

HERRING COVE BEACH PARKING

FROM ROUTE 0015 (PROVINCE LANDS ROAD) AT MP 2.19 (ON RIGHT)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0929	PUBLIC	8/8/2008		285,296	4.91	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	0	1	NO CURB AND GUTTER	STONE CURB	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0930

GREAT ISLAND TRAIL AND PICNIC PARKING
 ADJACENT TO CHEQUESSET NECK ROAD (WELLFLEET TOWN ROAD)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0930	PUBLIC	8/7/2008		28,087	0.48	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	0	0	NO CURB AND GUTTER	ASPHALT & CONCRETE	FAIR/73

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0931

NAUSET RANGER STATION PARKING
FROM NAUSET ROAD
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931	PUBLIC	8/7/2008		4,004	0.07	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

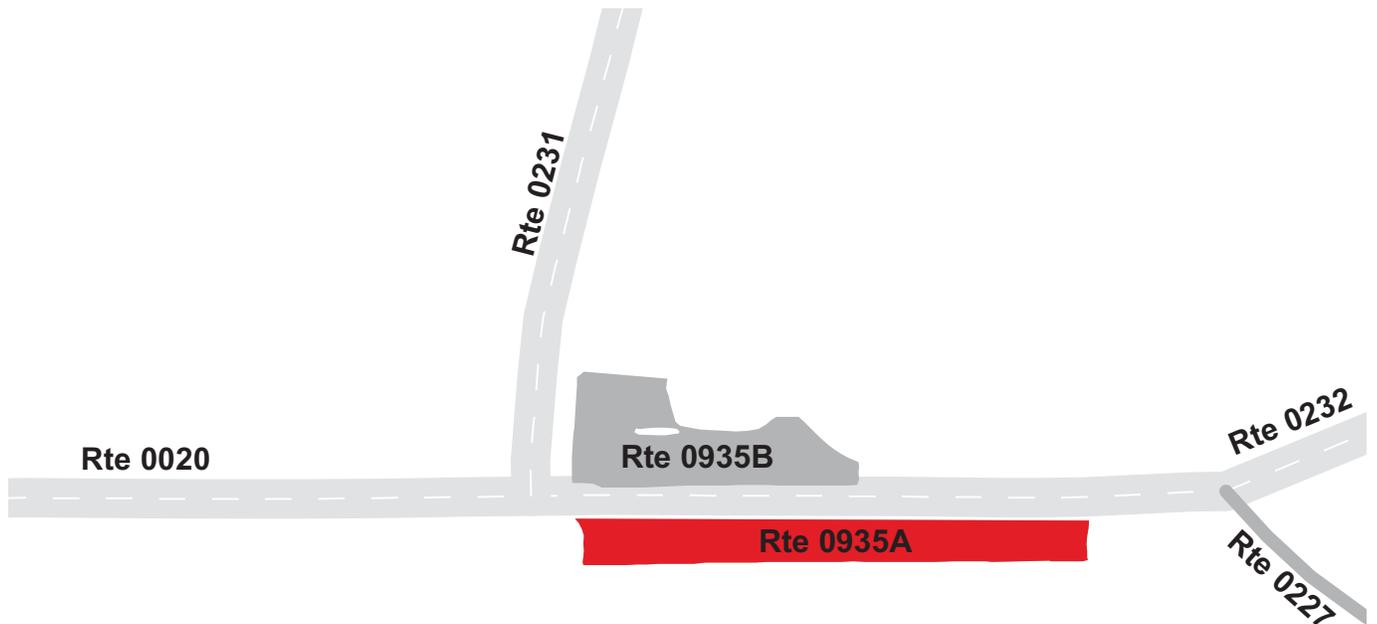
Route 0935A

OLD DEWLINE ROAD A PARKING

ADJACENT TO ROUTE 0020 (OLD DEWLINE ROAD) AT MP 0.51 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0935A	PUBLIC	8/8/2008		3,808	0.07	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



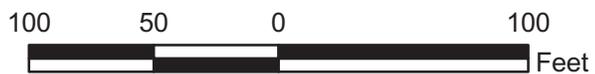
CAPE COD NATIONAL SEASHORE

Route 0939A

NTAFS FUEL HOUSE ROAD A PARKING
 ADJACENT TO ROUTE 0233 (NTAFS FUEL HOUSE ROAD) ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0939A	NONPUBLIC	8/8/2008		3,125	0.05	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

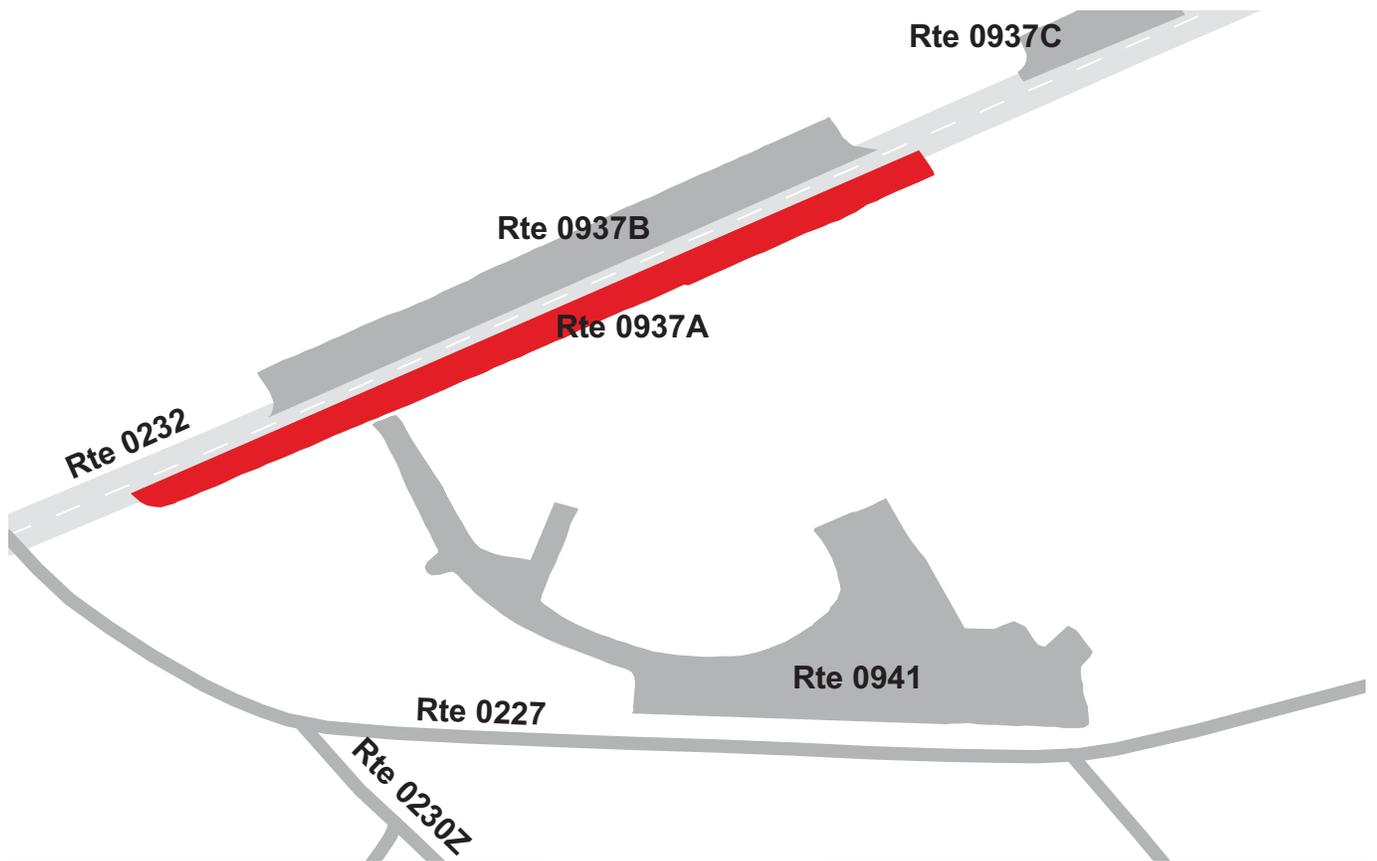
Route 0937A

NTAFS ACCESS ROAD A PARKING

ADJACENT TO ROUTE 0232 (NTAFS ACCESS ROAD) AT MP 0.06 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0937A	NONPUBLIC	8/8/2008		8,142	0.14	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

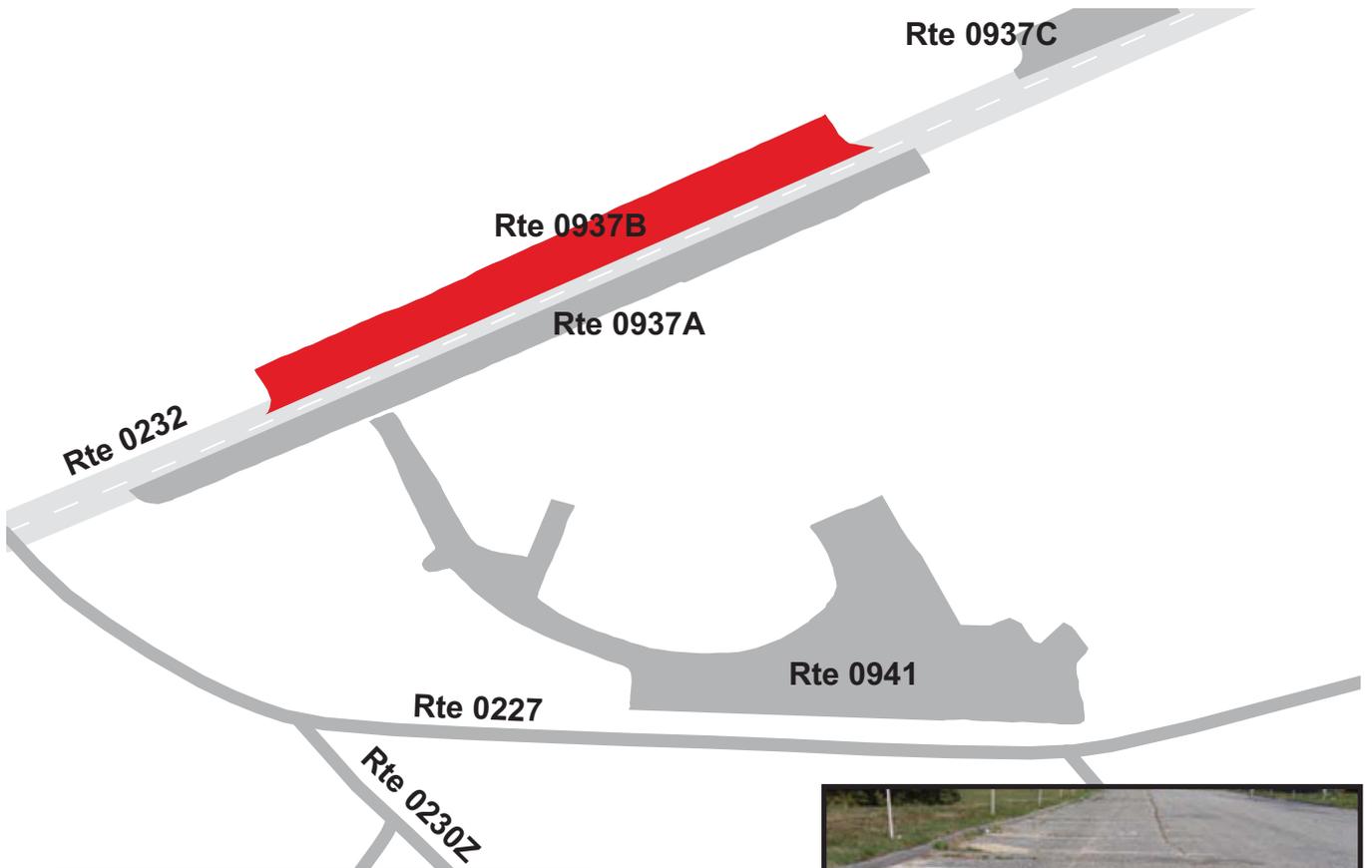
Route 0937B

NTAFS ACCESS ROAD B PARKING

ADJACENT TO ROUTE 0232 (NTAFS ACCESS ROAD) AT MP 0.06 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0937B	NONPUBLIC	8/8/2008		9,737	0.17	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

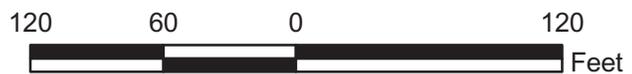
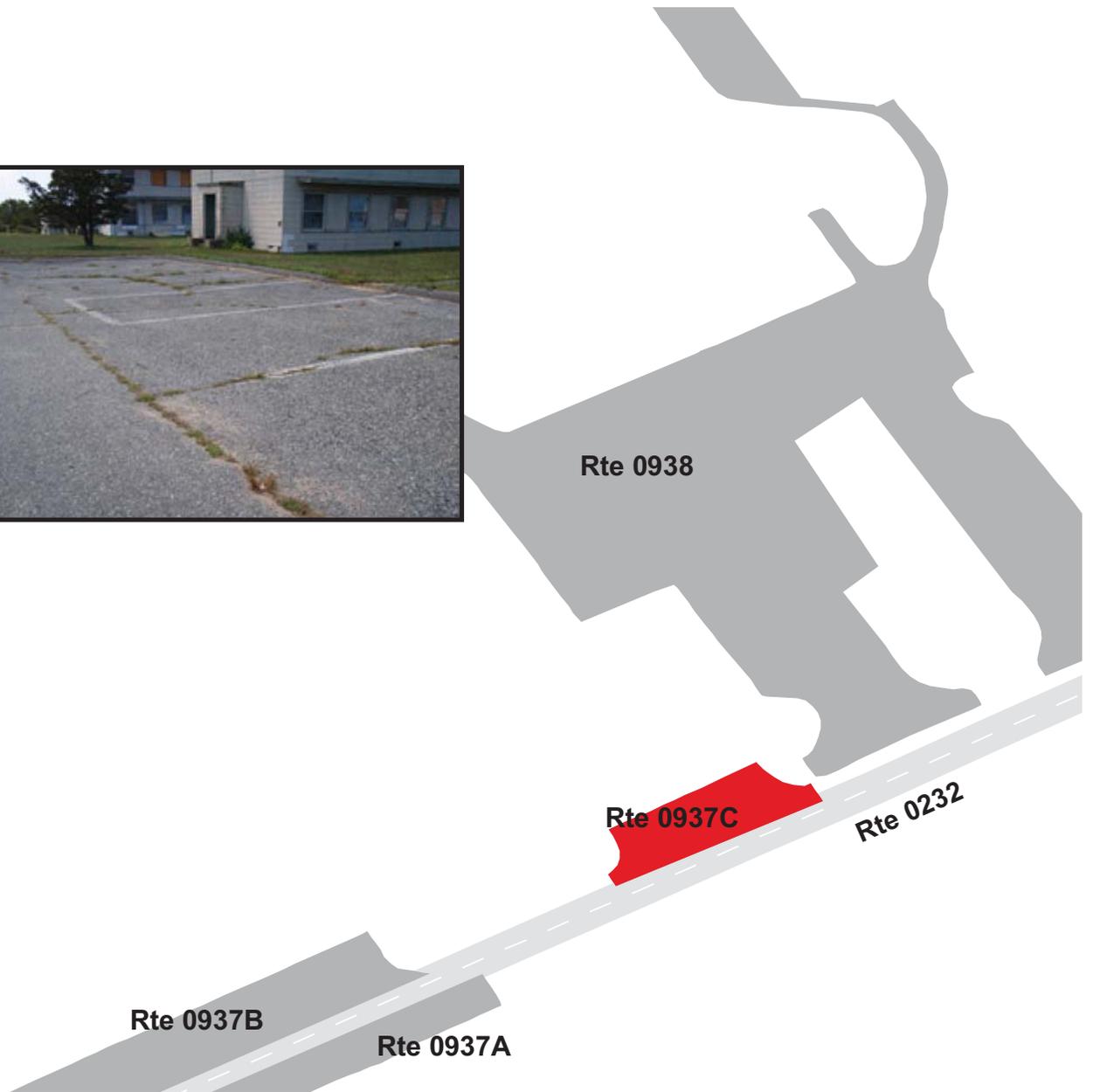
Route 0937C

NTAFS ACCESS ROAD C PARKING

ADJACENT TO ROUTE 0232 (NTAFS ACCESS ROAD) AT MP 0.12 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0937C	NONPUBLIC	8/8/2008		2,200	0.04	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0938

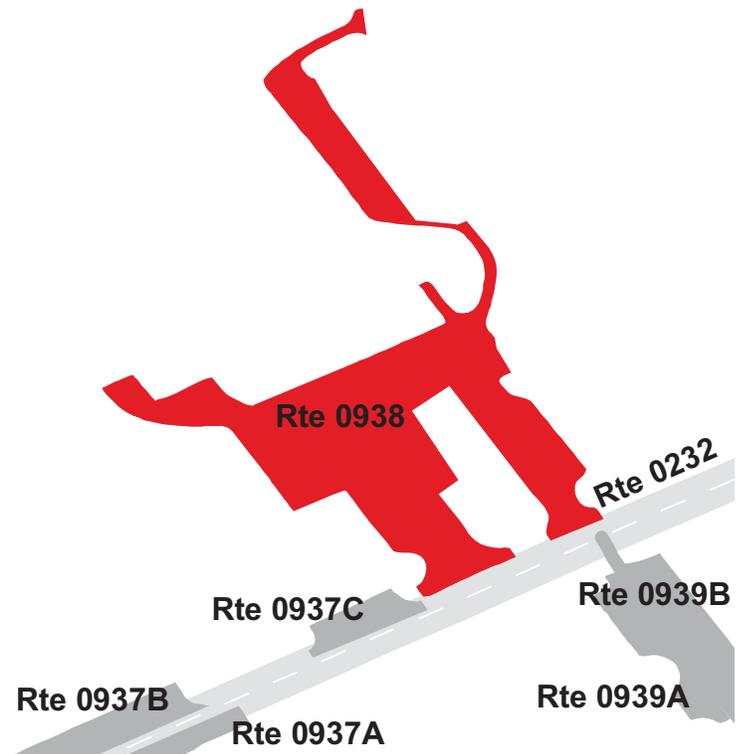
AIR FORCE MAINTENANCE AREA

FROM ROUTE 0232 (NTAFS ACCESS ROAD) AT MP 0.13 (ON LEFT)

TO ROUTE 0232 (NTAFS ACCESS ROAD) AT MP 0.15 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0938	NONPUBLIC	8/8/2008		38,380	0.66	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



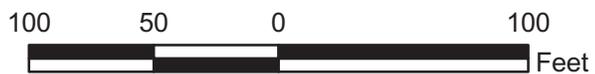
CAPE COD NATIONAL SEASHORE

Route 0939A

NTAFS FUEL HOUSE ROAD A PARKING
 ADJACENT TO ROUTE 0233 (NTAFS FUEL HOUSE ROAD) ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0939A	NONPUBLIC	8/8/2008		3,125	0.05	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



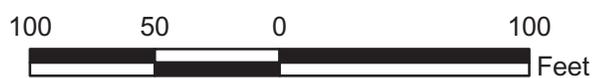
CAPE COD NATIONAL SEASHORE

Route 0939B

NTAFS FUEL HOUSE ROAD B PARKING
 ADJACENT TO ROUTE 0233 (NTAFS FUEL HOUSE ROAD) ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0939B	NONPUBLIC	8/8/2008		4,080	0.07	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



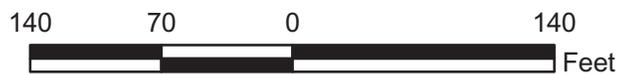
CAPE COD NATIONAL SEASHORE

Route 0939C

NTAFS FUEL HOUSE ROAD C PARKING
 FROM ROUTE 0233 (NTAFS FUEL HOUSE ROAD) ON LEFT
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0939C	NONPUBLIC	8/8/2008		8,003	0.14	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT & CONCRETE	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0940

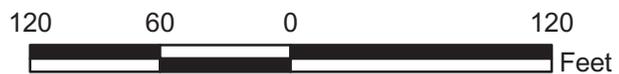
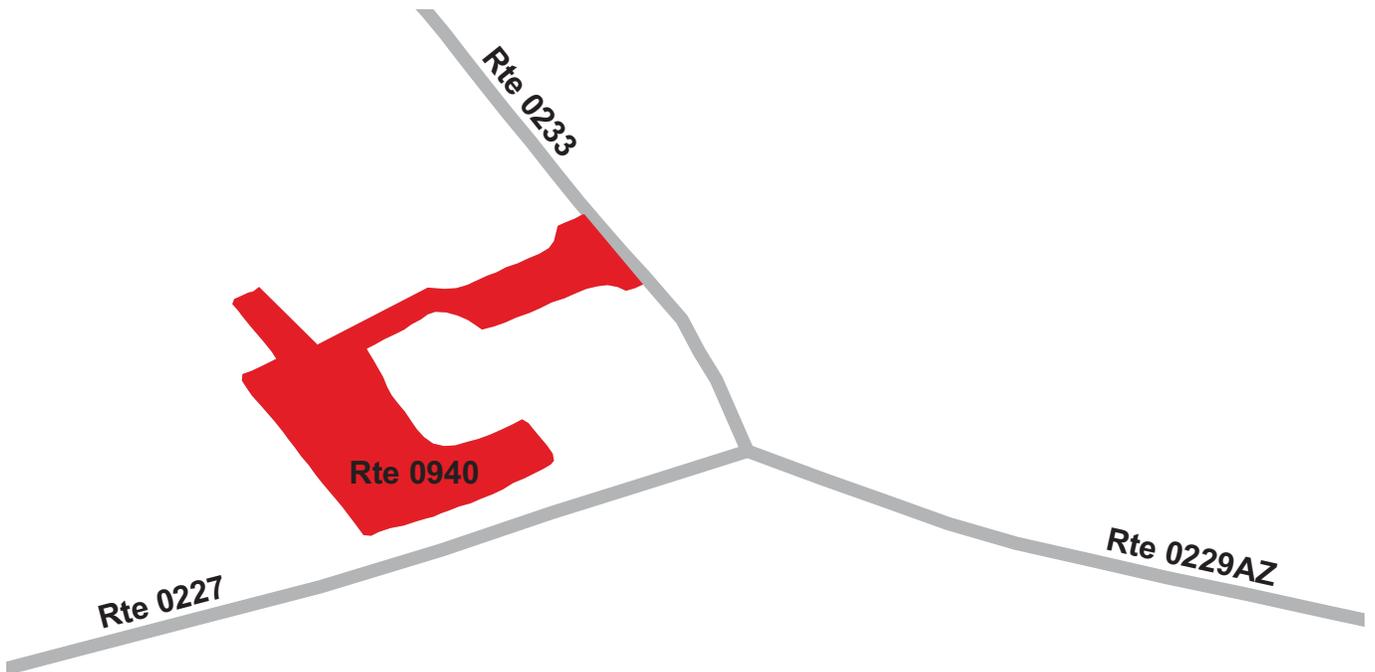
HEAT PLANT PARKING

FROM ROUTE 0227 (NTAFS LANDING ROAD)

TO ROUTE 0233 (NTAFS FUEL HOUSE ROAD)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0940	NONPUBLIC	8/8/2008		6,828	0.12	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

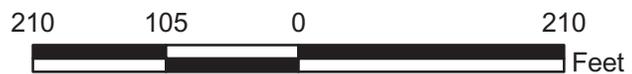
Route 0941

WATER PLANT PARKING

FROM ROUTE 0227 (NTAFS LANDING ROAD)
TO ROUTE 0937A (NTAFS ACCESS ROAD A PARKING)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0941	NONPUBLIC	8/8/2008		20,663	0.36	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

* Lane miles are based on 11' lane widths



CAPE COD NATIONAL SEASHORE

Route 0943

SEWAGE TREATMENT PARKING

FROM HELIPAD OFF ROUTE 0229BZ (SEWAGE TREATMENT PARKING ROAD B)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0943	NONPUBLIC	8/8/2008		2,432	0.04	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	1	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



Rte 0943



Cape Cod National Seashore



Section 8

Parkwide / Route Maintenance

Features Summaries

CACO: PARKWIDE MAINTENANCE FEATURES SUMMARY

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count below includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

FEATURE	LINEAR FEET	COUNT
BARRIER	1,109	--
BOLLARD	312	--
BRIDGE	--	2
CABLE	0	--
CATTLE GUARD	--	0
CULVERT	--	4
CURB	3,474	--
DROP INLET	--	82
FIRE HYDRANT	--	29
GATE	--	14
GUARD/GUIDE RAIL	797	--
GUARD/GUIDE WALL	312	--
INTERSECTION	--	177
LOW WATER CROSSING	0	0
MILE MARKER	--	0
OVERPASS	--	0
OVERHEAD SIGN	--	0
PARK BOUNDARY	--	4
PAVED DITCH	0	--
PULLOUT	--	1
RAILROAD CROSSING	--	0
RETAINING WALL	0	0
SIGN	--	486
STATE BOUNDARY	--	0
TEMPORARY BARRIER	0	--
TRAFFIC LIGHT	--	8
TUNNEL	0	0
TURNOUT	0	--

CACO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 DOANE ROAD	ROUTE 0011 CABLE ROAD	ROUTE 0012 MARCONI BEACH ROAD	ROUTE 0013 MARCONI SITE ROAD	ROUTE 0014 RACE POINT ROAD	ROUTE 0015 PROVINCE LANDS ROAD	UNIT
BARRIER	0	475	0	0	0	322	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	2	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	1	0	0	0	0	2	EACH
CURB	79	121	1,257	0	232	264	LINEAR FEET
DROP INLET	5	0	4	0	1	1	EACH
FIRE HYDRANT	0	0	0	0	0	0	EACH
GATE	0	0	1	1	0	2	EACH
GUARD/GUIDE RAIL	0	475	0	0	0	322	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	9	6	6	8	17	16	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	1	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	1	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	63	48	34	23	51	35	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	4	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

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CACO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0017 MOORS ROAD	ROUTE 0018 STATE ROUTE 6	ROUTE 0019 NAUSET ROAD	ROUTE 0020 OLD DEWLINE ROAD	ROUTE 0200 FORT HILL AREA ROAD	ROUTE 0201 DOANE ROCK PICNIC AREA ROAD	UNIT
BARRIER	0	0	132	0	95	0	LINEAR FEET
BOLLARD	0	0	132	0	95	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	1	0	0	0	0	0	EACH
CURB	63	0	480	11	79	90	LINEAR FEET
DROP INLET	0	20	9	1	0	0	EACH
FIRE HYDRANT	0	0	0	0	0	0	EACH
GATE	0	0	0	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	132	0	95	0	LINEAR FEET
INTERSECTION	5	3	14	10	5	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	1	1	0	0	1	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	24	16	63	7	17	10	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	4	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

CACO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0202 TOMAHAWK TRAIL	ROUTE 0204 MARCONI EMPLOYEE PARKING ROAD	ROUTE 0205 HEAD OF THE MEADOW BEACH ROAD	ROUTE 0206 PILGRIM HEIGHTS ROAD	ROUTE 0209 RACE POINT COAST GUARD STATION ROAD	ROUTE 0211 NAUSET LIGHT BEACH ACCESS ROAD	UNIT
BARRIER	32	0	0	0	0	0	LINEAR FEET
BOLLARD	32	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	0	0	63	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	1	0	0	1	0	EACH
GATE	0	0	1	0	0	1	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	32	0	0	0	0	0	LINEAR FEET
INTERSECTION	7	4	3	12	5	4	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	13	2	10	8	19	18	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

CACO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0223 MACPHERSON WAY	ROUTE 0231 NAC LABORATORY ACCESS ROAD	ROUTE 0232 NTAFS ACCESS ROAD	ROUTE 0401 B-WELL ROAD	ROUTE 0402 MARCONI RESIDENCE ROAD	ROUTE 0403 MARCONI MAINTENANCE AREA ROAD	UNIT
BARRIER	0	0	0	0	53	0	LINEAR FEET
BOLLARD	0	0	0	0	53	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	0	681	0	0	53	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	0	4	0	1	0	EACH
GATE	0	0	0	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	53	0	LINEAR FEET
INTERSECTION	3	4	9	5	4	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	1	0	5	2	5	5	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

CACO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0407ZZ PROVINCE LANDS RESIDENCE ROADS	ROUTE 5001 OCEAN VIEW DRIVE	UNIT
BARRIER	0	0	LINEAR FEET
BOLLARD	0	0	LINEAR FEET
BRIDGE	0	0	EACH
CABLE	0	0	LINEAR FEET
CATTLE GUARD	0	0	EACH
CULVERT	0	0	EACH
CURB	0	0	LINEAR FEET
DROP INLET	0	0	EACH
FIRE HYDRANT	3	0	EACH
GATE	0	0	EACH
GUARD/GUIDE RAIL	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	LINEAR FEET
INTERSECTION	6	0	EACH
LOW WATER CROSSING	0	0	EACH
LOW WATER CROSSING	0	0	LINEAR FEET
MILE MARKER	0	0	EACH
OVERHEAD SIGN	0	0	EACH
OVERPASS	0	0	EACH
PARK BOUNDARY	0	0	EACH
PAVED DITCH	0	0	LINEAR FEET
PULLOUT	0	0	EACH
RAILROAD CROSSING	0	0	EACH
RETAINING WALL	0	0	EACH
RETAINING WALL	0	0	LINEAR FEET
SIGN	7	0	EACH
STATE BOUNDARY	0	0	EACH
TEMPORARY BARRIER	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	EACH
TUNNEL	0	0	EACH
TUNNEL	0	0	LINEAR FEET
TURNOUT	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

CACO: STRUCTURE LIST

ROUTE NUMBER	FUNCTIONAL CLASS	MILEPOST START	MILEPOST END	FEATURE	STRUCTURE NUMBER
0015	1	0.104	0.111	BRIDGE	1730-002
0015	1	0.929	0.935	BRIDGE	1730-003

Cape Cod National Seashore



Section 9

Park Route Maintenance Features

Road Logs

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: DOANE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0019 (NAUSET ROAD) AT MP 0.21 (ON LEFT)
0.000	0.000	INTERSECTION	N/A	ROUTE 0019 (NAUSET ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0019 (NAUSET ROAD)
0.025	0.025	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.027	0.027	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.052	0.052	SIGN	RIGHT	GUIDE, BEACH SHUTTLE SUMMER ONLY PICNIC AREA BEACHES
0.072	0.072	INTERSECTION	RIGHT	UNPAVED ROUTE
0.081	0.081	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.159	0.159	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.233	0.233	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.274	0.274	DROP INLET	RIGHT	
0.300	0.300	DROP INLET	RIGHT	
0.308	0.308	INTERSECTION	RIGHT	ROUTE 0202 (TOMAHAWK TRAIL)
0.319	0.319	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.329	0.329	SIGN	RIGHT	GUIDE, DOANE ROCK PICNIC AREA NEXT RIGHT
0.351	0.351	SIGN	RIGHT	GUIDE, PICNIC AREA NEXT RIGHT BEACH SHUTTLE NEXT LEFT
0.362	0.362	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.393	0.393	INTERSECTION	RIGHT	ROUTE 0201 (DOANE ROCK PICNIC AREA ROAD)
0.393	0.393	SIGN	LEFT	GUIDE, PICNIC AREA
0.393	0.393	SIGN	RIGHT	GUIDE, PICNIC AREA
0.399	0.399	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.400	0.400	SIGN	LEFT	GUIDE, PINE CREST RD
0.400	0.400	SIGN	RIGHT	GUIDE, PINE CREST RD
0.400	0.400	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.402	0.402	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.404	0.404	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.404	0.404	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.416	0.416	INTERSECTION	LEFT	ROUTE 0914 (COAST GUARD BEACH BUS STOP PARKING)
0.426	0.426	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.426	0.426	SIGN	RIGHT	GUIDE, NO PETS
0.430	0.430	INTERSECTION	LEFT	ROUTE 0405 (COAST GUARD BEACH SHUTTLE PICKUP ROUTE)
0.451	0.451	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: DOANE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.462	0.462	SIGN	RIGHT	GUIDE, DOANE ROCK PICNIC AREA NEXT LEFT
0.463	0.463	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.475	0.475	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.530	0.530	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.530	0.530	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.549	0.549	SIGN	RIGHT	REGULATORY, DEAD END
0.558	0.558	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.558	0.558	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.558	0.558	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.558	0.558	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.561	0.561	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.586	0.586	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.586	0.586	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.586	0.586	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.586	0.586	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.613	0.613	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.613	0.613	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.614	0.614	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.614	0.614	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.625	0.625	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.652	0.652	DROP INLET	RIGHT	
0.653	0.653	DROP INLET	LEFT	
0.662	0.662	DROP INLET	RIGHT	
0.739	0.739	SIGN	RIGHT	WARNING, 20 M.P.H.
0.739	0.739	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.741	0.741	SIGN	RIGHT	GUIDE, BEACH SHUTTLE PICNIC AREA
0.750	0.750	SIGN	RIGHT	REGULATORY, 6
0.750	0.750	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.750	0.750	SIGN	RIGHT	REGULATORY, TO
0.751	0.751	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.773	0.788	CURB	RIGHT	
0.824	0.824	SIGN	RIGHT	WARNING, 20 M.P.H.
0.824	0.824	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: DOANE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.923	0.923	SIGN	RIGHT	REGULATORY, LOADING OR UNLOADING PASSENGERS PROHIBITED
0.940	0.940	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.940	0.940	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.949	0.949	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.950	0.950	SIGN	RIGHT	GUIDE, COAST GUARD BEACH SUMMER ACCESS VIA BEACH NAUSET LIGHT BEACH
0.951	0.951	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.966	0.966	CULVERT	N/A	
0.968	0.968	INTERSECTION	RIGHT	ROUTE 0913 (COAST GUARD BEACH ENVIRONMENTAL EDUCATION CENTER PARKING)
0.976	0.976	SIGN	RIGHT	REGULATORY, 6
0.976	0.976	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.976	0.976	SIGN	RIGHT	REGULATORY, TO
0.984	0.984	SIGN	RIGHT	REGULATORY, LOADING OR UNLOADING PASSENGERS PROHIBITED
0.984	0.984	SIGN	RIGHT	REGULATORY, NO PARKING STOPPING STANDING ANY TIME
0.986	0.986	SIGN	RIGHT	REGULATORY, BUCKLE UP IT'S THE LAW
1.010	1.010	INTERSECTION	N/A	ROUTE 5001 (OCEAN VIEW DRIVE)
1.010	1.010	ROUTE END	N/A	TO ROUTE 5001 (OCEAN VIEW DRIVE) AT START

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: CABLE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM NAUSET ROAD
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (NAUSET ROAD / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (NAUSET ROAD / NON NPS)
0.000	0.000	SIGN	N/A	GUIDE, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	N/A	REGULATORY, 6
0.000	0.000	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.002	0.002	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.070	0.070	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.094	0.094	INTERSECTION	LEFT	PAVED PARKING (NAUSET REGIONAL HIGH SCHOOL / NON NPS)
0.102	0.102	SIGN	LEFT	GUIDE, ENTRANCE
0.142	0.142	SIGN	RIGHT	WARNING, SHARE THE ROAD
0.149	0.149	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.149	0.149	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.191	0.191	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.191	0.191	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.225	0.225	INTERSECTION	LEFT	PAVED PARKING (NAUSET REGIONAL HIGH SCHOOL / NON NPS)
0.250	0.250	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.250	0.250	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.451	0.451	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.451	0.451	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.458	0.458	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.458	0.458	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.533	0.623	GUARD/GUIDE RAIL	RIGHT	
0.592	0.592	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.632	0.632	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.632	0.632	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.725	0.725	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.725	0.725	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.734	0.734	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.734	0.734	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: CABLE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.756	0.756	SIGN	RIGHT	REGULATORY, LOADING OR UNLOADING PASSENGERS PROHIBITED
0.780	0.803	CURB	LEFT	
0.846	0.846	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.846	0.846	SIGN	RIGHT	REGULATORY, NO STOPPING ANY TIME
0.846	0.846	SIGN	RIGHT	REGULATORY, LOADING OR UNLOADING PASSENGERS PROHIBITED
0.846	0.846	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.873	0.873	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.873	0.873	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.873	0.873	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.878	0.878	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.881	0.881	SIGN	RIGHT	REGULATORY, NO PARKING STOPPING STANDING ANY TIME
0.881	0.881	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.883	0.883	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.883	0.883	SIGN	RIGHT	REGULATORY, NO STOPPING ANY TIME
0.883	0.883	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.883	0.883	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.923	0.923	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.923	0.923	SIGN	RIGHT	REGULATORY, NO STOPPING ANY TIME
0.923	0.923	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.923	0.923	SIGN	RIGHT	REGULATORY, LOADING OR UNLOADING PASSENGERS PROHIBITED
0.929	0.929	SIGN	RIGHT	REGULATORY, STOP
0.930	0.930	INTERSECTION	LEFT	ROUTE 0211 (NAUSET LIGHT BEACH ACCESS ROAD)
0.930	0.930	INTERSECTION	RIGHT	ROUTE 5001 (OCEAN VIEW DRIVE)
0.930	0.930	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.930	0.930	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
0.930	0.930	ROUTE END	N/A	TO ROUTE 0211 AND ROUTE 5001 INTERSECTION

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012: MARCONI BEACH ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE ROUTE 6
0.000	0.000	SIGN	LEFT	REGULATORY, LEFT LANE MUST TURN LEFT
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 6 / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 6 / NON NPS)
0.007	0.007	SIGN	RIGHT	REGULATORY, RIGHT LANE MUST TURN RIGHT
0.008	0.008	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.014	0.014	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.014	0.014	SIGN	RIGHT	GUIDE, CCRT
0.019	0.019	SIGN	RIGHT	REGULATORY, LEFT LANE MUST TURN LEFT
0.019	0.019	SIGN	RIGHT	REGULATORY, RIGHT LANE MUST TURN RIGHT
0.023	0.023	SIGN	RIGHT	REGULATORY, NO MOTOR VEHICLES
0.023	0.023	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.023	0.023	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.026	0.026	SIGN	RIGHT	GUIDE, MARCONI BEACH RD
0.026	0.026	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.026	0.026	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.026	0.026	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES
0.036	0.036	SIGN	LEFT	GUIDE, BIKE TRAIL PARKING 1.1 MILES NORTH
0.052	0.052	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.056	0.056	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.056	0.056	SIGN	RIGHT	GUIDE, CCRT
0.056	0.056	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.077	0.077	SIGN	RIGHT	WARNING, AHEAD
0.077	0.077	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.112	0.112	SIGN	RIGHT	GUIDE, MARCONI BEACH MARCONI STATION SITE HEADQUARTERS
0.121	0.121	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.127	0.127	INTERSECTION	LEFT	ROUTE 0013 (MARCONI SITE ROAD)
0.146	0.146	GATE	N/A	
0.146	0.146	SIGN	N/A	REGULATORY, ROAD CLOSED
0.146	0.146	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
0.161	0.161	SIGN	RIGHT	GUIDE, MARCONI BEACH
0.161	0.161	SIGN	RIGHT	GUIDE, RESTROOMS CLOSED
0.212	0.212	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012: MARCONI BEACH ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.255	0.255	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.257	0.257	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.561	0.561	INTERSECTION	RIGHT	UNPAVED ROUTE (FIRE ROAD)
0.979	1.010	CURB	LEFT	
0.999	0.999	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
1.016	1.034	CURB	LEFT	
1.034	1.034	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
1.393	1.393	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
1.420	1.420	INTERSECTION	LEFT	ROUTE 0906 (MARCONI BEACH PARKING)
1.431	1.620	CURB	LEFT	
1.432	1.432	SIGN	LEFT	REGULATORY, DO NOT ENTER
1.442	1.442	DROP INLET	LEFT	
1.480	1.480	DROP INLET	LEFT	
1.556	1.556	DROP INLET	LEFT	
1.610	1.610	DROP INLET	LEFT	
1.620	1.620	INTERSECTION	N/A	ROUTE 0906 (MARCONI BEACH PARKING)
1.620	1.620	ROUTE END	N/A	TO ROUTE 0906 (MARCONI BEACH PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013: MARCONI SITE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0012 (MARCONI BEACH ROAD) AT MP 0.13 (ON LEFT)
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	ROUTE 0012 (MARCONI BEACH ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0012 (MARCONI BEACH ROAD)
0.037	0.037	SIGN	RIGHT	GUIDE, MARCONI STATION SITE HEADQUARTERS MAINTENANCE AREA
0.037	0.037	SIGN	RIGHT	GUIDE, RESTROOMS CLOSED
0.038	0.038	INTERSECTION	LEFT	ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD)
0.047	0.047	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.059	0.059	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.063	0.063	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.116	0.116	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.138	0.138	INTERSECTION	LEFT	ROUTE 0908 (PARK HEADQUARTERS PARKING)
0.147	0.147	SIGN	LEFT	REGULATORY, PARKING
0.157	0.157	SIGN	RIGHT	GUIDE, MARCONI STATION SITE CEDAR SWAMP TRAIL
0.224	0.224	INTERSECTION	LEFT	ROUTE 0908 (PARK HEADQUARTERS PARKING)
0.239	0.239	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.240	0.240	GATE	N/A	
0.240	0.240	SIGN	N/A	REGULATORY, ROAD CLOSED
0.276	0.276	INTERSECTION	RIGHT	ROUTE 0401 (B-WELL ROAD)
0.283	0.283	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.342	0.342	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.397	0.397	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.451	0.451	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.479	0.479	INTERSECTION	LEFT	UNPAVED ROUTE (WATER TOWER ACCESS)
0.498	0.498	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.520	0.520	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.524	0.524	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.526	0.526	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.527	0.527	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.866	0.887	PULLOUT	LEFT	
0.979	0.979	SIGN	RIGHT	GUIDE, MARCONI STATION SITE
0.980	0.980	INTERSECTION	N/A	ROUTE 0907 (MARCONI STATION SITE PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013: MARCONI SITE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.980	0.980	SIGN	LEFT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
0.980	0.980	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.980	0.980	ROUTE END	N/A	TO ROUTE 0907 (MARCONI STATION SITE PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014: RACE POINT ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM PARK BOUNDARY
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (RACE POINT ROAD)
0.000	0.000	PARK BOUNDARY	N/A	
0.004	0.004	SIGN	RIGHT	GUIDE, ENTERING CAPE COD NATIONAL SEASHORE PROVINCE LANDS
0.015	0.015	SIGN	RIGHT	GUIDE, CAUTION RIDERS
0.082	0.082	INTERSECTION	RIGHT	ROUTE 0407AZ (PROVINCE LANDS RESIDENCE ROAD A)
0.107	0.107	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.119	0.119	SIGN	RIGHT	REGULATORY, NO PARKING THIS SIDE
0.130	0.130	INTERSECTION	LEFT	ROUTE 0900 (BEECH FOREST PARKING)
0.132	0.132	SIGN	LEFT	GUIDE, BEECH FOREST
0.132	0.132	SIGN	RIGHT	GUIDE, BEECH FOREST
0.139	0.139	SIGN	RIGHT	REGULATORY, NO PARKING THIS SIDE
0.142	0.142	SIGN	RIGHT	GUIDE, MOTORIZED VEHICLES PROHIBITED
0.142	0.142	SIGN	RIGHT	GUIDE, VISITOR CENTER 1.4 KM
0.142	0.142	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.142	0.142	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.147	0.147	SIGN	LEFT	GUIDE, MOTORIZED VEHICLES PROHIBITED
0.147	0.147	SIGN	LEFT	GUIDE, VISITOR CENTER
0.148	0.148	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.210	0.210	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.223	0.223	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.275	0.275	SIGN	RIGHT	REGULATORY, NO PARKING
0.312	0.312	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.394	0.394	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.468	0.468	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.687	0.687	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.775	0.775	SIGN	RIGHT	GUIDE, VISITOR CENTER NEXT RIGHT
0.784	0.784	SIGN	RIGHT	REGULATORY, NO PARKING THIS SIDE
0.935	0.935	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.974	0.974	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.983	0.983	INTERSECTION	RIGHT	ROUTE 0901 (PROVINCE LANDS VISITOR CENTER PARKING)
0.988	1.001	CURB	RIGHT	
0.998	0.998	SIGN	RIGHT	GUIDE, PROVINCE LANDS VISITOR CENTER

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014: RACE POINT ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.999	0.999	SIGN	LEFT	GUIDE, PROVINCE LANDS VISITOR CENTER
1.004	1.004	INTERSECTION	RIGHT	ROUTE 0901 (PROVINCE LANDS VISITOR CENTER PARKING)
1.011	1.011	INTERSECTION	RIGHT	ROUTE 0901 (PROVINCE LANDS VISITOR CENTER PARKING)
1.097	1.097	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.176	1.176	INTERSECTION	LEFT	ROUTE 0015 (PROVINCE LANDS ROAD) SPUR
1.182	1.186	CURB	LEFT	
1.186	1.186	INTERSECTION	LEFT	ROUTE 0015 (PROVINCE LANDS ROAD)
1.186	1.186	SIGN	RIGHT	GUIDE, RACE POINT AIRPORT HERRING COVE
1.187	1.187	DROP INLET	RIGHT	
1.191	1.196	CURB	LEFT	
1.199	1.199	INTERSECTION	LEFT	ROUTE 0015 (PROVINCE LANDS ROAD) SPUR
1.242	1.242	SIGN	RIGHT	GUIDE, VISITOR CENTER PROVINCETOWN HERRING COVE
1.257	1.257	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
1.463	1.463	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
1.463	1.463	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.522	1.522	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
1.523	1.523	SIGN	RIGHT	GUIDE, VISITOR CENTER 0.6 KM BEECH FOREST 2.9 KM
1.523	1.523	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
1.527	1.527	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
1.564	1.564	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
1.601	1.601	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.699	1.699	INTERSECTION	LEFT	PAVED ROUTE (PROVINCETOWN MUNICIPAL AIRPORT / NON NPS)
1.707	1.707	SIGN	LEFT	GUIDE, AIRCRAFT SIGHTSEEING NEXT LEFT
1.753	1.753	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
1.775	1.775	INTERSECTION	LEFT	PAVED PARKING (PROVINCETOWN MUNICIPAL AIRPORT PARKING / NON NPS)
1.788	1.788	SIGN	LEFT	GUIDE, PROVINCETOWN MUNICIPAL AIRPORT
1.788	1.788	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
1.797	1.797	SIGN	RIGHT	GUIDE, RACE POINT BEACH OLD HARBOR LIFESAVING STATION OFF-ROAD PERMIT STATION
1.830	1.830	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
1.832	1.832	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
1.839	1.839	SIGN	RIGHT	GUIDE, NORTH DISTRICT RANGER STATION USE LEFT LANE
1.869	1.869	INTERSECTION	LEFT	ROUTE 0209 (RACE POINT COAST GUARD STATION ROAD)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014: RACE POINT ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.869	1.869	INTERSECTION	RIGHT	UNPAVED ROUTE (OVERSAND ROAD)
1.877	1.899	CURB	LEFT	
1.881	1.881	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
1.881	1.881	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
1.887	1.887	SIGN	RIGHT	GUIDE, U-TURNS PERMITTED
1.906	1.906	INTERSECTION	LEFT	ROUTE 0902 (RACE POINT BEACH PARKING)
1.919	1.919	INTERSECTION	LEFT	ROUTE 0902 (RACE POINT BEACH PARKING)
1.931	1.931	INTERSECTION	LEFT	ROUTE 0902 (RACE POINT BEACH PARKING)
1.940	1.940	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.940	1.940	INTERSECTION	N/A	ROUTE 0902 (RACE POINT BEACH PARKING)
1.940	1.940	ROUTE END	N/A	TO ROUTE 0902 (RACE POINT BEACH PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0015: PROVINCE LANDS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0014 (RACE POINT ROAD) AT MP 1.19 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0014 (RACE POINT ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0014 (RACE POINT ROAD)
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.008	0.008	INTERSECTION	LEFT	ROUTE 0014 (RACE POINT ROAD) SPUR
0.011	0.011	INTERSECTION	RIGHT	ROUTE 0014 (RACE POINT ROAD) SPUR
0.031	0.031	TRAFFIC LIGHT	N/A	ON GATE ON LEFT
0.031	0.031	TRAFFIC LIGHT	N/A	ON GATE ON RIGHT
0.031	0.031	GATE	N/A	
0.035	0.035	SIGN	RIGHT	GUIDE, RACE POINT AIRPORT VISITOR CENTER
0.102	0.117	GUARD/GUIDE RAIL	LEFT	
0.103	0.103	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.103	0.118	GUARD/GUIDE RAIL	RIGHT	
0.104	0.111	BRIDGE	N/A	1730-002 (PROVINCE LANDS BICYCLE TRAIL BRIDGE #1)
0.145	0.145	SIGN	RIGHT	WARNING, STOP AHEAD
0.411	0.411	INTERSECTION	RIGHT	ROUTE 0904 (PROVINCE LANDS ROAD PARKING)
0.594	0.594	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
0.595	0.595	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
0.738	0.738	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.768	0.768	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.812	0.812	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.887	0.887	INTERSECTION	RIGHT	ROUTE 0945 (HATCHES HARBOR PARKING)
0.888	0.888	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
0.893	0.893	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.923	0.939	GUARD/GUIDE RAIL	LEFT	
0.924	0.924	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.925	0.940	GUARD/GUIDE RAIL	RIGHT	
0.929	0.935	BRIDGE	N/A	1730-003 (PROVINCE LANDS BICYCLE TRAIL BRIDGE #2)
1.000	1.000	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
1.001	1.001	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
1.081	1.081	CULVERT	N/A	
1.116	1.116	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0015: PROVINCE LANDS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.417	1.417	INTERSECTION	LEFT	UNPAVED ROUTE (FIRE ROAD)
1.606	1.606	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
1.707	1.707	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
2.057	2.057	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
2.090	2.090	GATE	N/A	
2.090	2.090	TRAFFIC LIGHT	N/A	ON GATE ON LEFT
2.090	2.090	TRAFFIC LIGHT	N/A	ON GATE ON RIGHT
2.092	2.092	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
2.096	2.096	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
2.140	2.140	SIGN	RIGHT	GUIDE, TRAIL
2.164	2.164	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.166	2.166	INTERSECTION	RIGHT	ROUTE 0929 (HERRING COVE BEACH PARKING)
2.171	2.184	CURB	RIGHT	
2.177	2.177	DROP INLET	RIGHT	
2.188	2.188	INTERSECTION	RIGHT	ROUTE 0929 (HERRING COVE BEACH PARKING)
2.188	2.188	SIGN	RIGHT	GUIDE, HERRING COVE BEACH
2.188	2.188	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
2.189	2.189	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
2.189	2.189	SIGN	RIGHT	REGULATORY, KEEP RIGHT
2.195	2.202	CURB	RIGHT	
2.201	2.201	SIGN	LEFT	REGULATORY, DO NOT ENTER
2.206	2.206	INTERSECTION	RIGHT	ROUTE 0929 (HERRING COVE BEACH PARKING)
2.238	2.238	SIGN	RIGHT	WARNING, DANGEROUS INTERSECTION AHEAD
2.262	2.262	SIGN	RIGHT	GUIDE, BUCKLE UP IN THE PARK IT'S THE LAW
2.262	2.262	SIGN	RIGHT	GUIDE, HERRING COVE BEACH NEXT LEFT
2.277	2.277	INTERSECTION	LEFT	ROUTE 0018 (STATE ROUTE 6) SPUR
2.283	2.307	CURB	LEFT	
2.295	2.295	INTERSECTION	RIGHT	ROUTE 0017 (MOORS ROAD) SPUR
2.299	2.305	CURB	RIGHT	
2.304	2.304	SIGN	RIGHT	REGULATORY, STOP
2.307	2.307	INTERSECTION	LEFT	ROUTE 0018 (STATE ROUTE 6) OPPOSITE LANE
2.307	2.307	INTERSECTION	RIGHT	ROUTE 0017 (MOORS ROAD)
2.313	2.313	SIGN	RIGHT	REGULATORY, STOP
2.314	2.314	CULVERT	N/A	

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0015: PROVINCE LANDS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.316	2.316	SIGN	RIGHT	REGULATORY, STOP
2.320	2.320	INTERSECTION	LEFT	ROUTE 0018 (STATE ROUTE 6)
2.320	2.320	INTERSECTION	RIGHT	ROUTE 0017 (MOORS ROAD) OPPOSITE LANE
2.320	2.320	SIGN	N/A	REGULATORY, ONE WAY
2.320	2.320	ROUTE END	N/A	TO ROUTE 0017 AND ROUTE 0018 INTERSECTION

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0017: MOORS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0015 (PROVINCE LANDS ROAD) AT END
0.000	0.000	INTERSECTION	N/A	ROUTE 0018 (STATE ROUTE 6)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0015 (PROVINCE LANDS ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0015 (PROVINCE LANDS ROAD)
0.012	0.012	INTERSECTION	RIGHT	ROUTE 0017 (MOORS ROAD) SPUR
0.089	0.089	SIGN	RIGHT	GUIDE, BOSTON RACE POINT HERRING COVE BEACH
0.122	0.122	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.127	0.127	SIGN	RIGHT	WARNING, DANGEROUS INTERSECTION AHEAD
0.174	0.174	SIGN	RIGHT	GUIDE, RACE POINT HERRING COVE BEACH NEXT LEFT
0.182	0.182	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.199	0.199	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.199	0.199	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.218	0.218	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.235	0.235	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.240	0.240	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.240	0.240	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.305	0.305	SIGN	RIGHT	GUIDE, NO PETS
0.307	0.307	SIGN	RIGHT	GUIDE, TRAIL
0.319	0.319	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.366	0.366	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.620	0.620	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.677	0.677	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.704	0.704	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.749	0.749	SIGN	RIGHT	REGULATORY, NO PARKING THIS SIDE OF STREET
0.779	0.791	CURB	LEFT	
0.784	0.784	CULVERT	N/A	
0.823	0.823	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.858	0.858	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.878	0.878	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.908	0.908	SIGN	RIGHT	GUIDE, ENTERING CAPE COD NATIONAL SEASHORE PROVINCE LANDS
0.909	0.909	SIGN	RIGHT	GUIDE, 6A SOUTH PROVINCETOWN CENTER NEXT LEFT
0.910	0.910	INTERSECTION	N/A	PAVED ROUTE (PROVINCE LANDS ROAD)
0.910	0.910	PARK BOUNDARY	N/A	

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0017: MOORS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.910	0.910	ROUTE END	N/A	TO PARK BOUNDARY

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0018: STATE ROUTE 6

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0015 (PROVINCE LANDS ROAD) AT END
0.000	0.000	INTERSECTION	LEFT	ROUTE 0015 (PROVINCE LANDS ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0017 (MOORS ROAD)
0.040	0.040	DROP INLET	RIGHT	
0.040	0.040	SIGN	RIGHT	WARNING, EXIT 25 M.P.H.
0.041	0.041	DROP INLET	LEFT	
0.046	0.046	DROP INLET	RIGHT	OPPOSITE LANE FEATURE
0.047	0.047	DROP INLET	LEFT	OPPOSITE LANE FEATURE
0.052	0.052	SIGN	LEFT	REGULATORY, SPEED LIMIT 50
0.054	0.054	SIGN	RIGHT	REGULATORY, SPEED LIMIT 50
0.076	0.076	SIGN	RIGHT	GUIDE, PROVINCETOWN HERRING COVE BEACH RACE POINT
0.086	0.086	DROP INLET	RIGHT	
0.087	0.087	DROP INLET	LEFT	
0.114	0.114	DROP INLET	RIGHT	OPPOSITE LANE FEATURE
0.115	0.115	DROP INLET	LEFT	OPPOSITE LANE FEATURE
0.117	0.117	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.119	0.119	SIGN	LEFT	REGULATORY, SPEED LIMIT 30
0.162	0.162	DROP INLET	RIGHT	
0.163	0.163	DROP INLET	LEFT	
0.163	0.163	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.163	0.163	SIGN	RIGHT	GUIDE, RACE POINT HERRING COVE BEACH RIGHT LANE EXIT ONLY
0.191	0.191	DROP INLET	RIGHT	OPPOSITE LANE FEATURE
0.191	0.191	SIGN	RIGHT	WARNING, DANGEROUS INTERSECTION AHEAD
0.192	0.192	DROP INLET	LEFT	OPPOSITE LANE FEATURE
0.238	0.238	DROP INLET	RIGHT	
0.239	0.239	DROP INLET	LEFT	
0.253	0.253	SIGN	LEFT	REGULATORY, REDUCED SPEED 40
0.253	0.253	SIGN	RIGHT	REGULATORY, REDUCED SPEED 40
0.267	0.267	DROP INLET	RIGHT	OPPOSITE LANE FEATURE
0.268	0.268	DROP INLET	LEFT	OPPOSITE LANE FEATURE
0.303	0.303	SIGN	RIGHT	GUIDE, 6A SOUTH PROVINCETOWN LEFT LANE RACE POINT RIGHT LANE EXIT ONLY
0.304	0.304	DROP INLET	RIGHT	
0.305	0.305	DROP INLET	LEFT	

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0018: STATE ROUTE 6

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.334	0.334	DROP INLET	RIGHT	OPPOSITE LANE FEATURE
0.335	0.335	DROP INLET	LEFT	OPPOSITE LANE FEATURE
0.339	0.339	SIGN	RIGHT	GUIDE, ENTERING CAPE COD NATIONAL SEASHORE PROVINCE LANDS
0.343	0.343	SIGN	LEFT	REGULATORY, STATE HIGHWAY BEGINS
0.343	0.343	SIGN	LEFT	REGULATORY, STATE HIGHWAY ENDS
0.345	0.345	SIGN	RIGHT	REGULATORY, SPEED LIMIT 50
0.350	0.350	INTERSECTION	N/A	PAVED ROUTE (HWY 6)
0.350	0.350	PARK BOUNDARY	N/A	
0.350	0.350	ROUTE END	N/A	TO PARK BOUNDARY

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0019: NAUSET ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0223 (MACPHERSON WAY) AT START
0.000	0.000	INTERSECTION	LEFT	ROUTE 0223 (MACPHERSON WAY)
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (NAUSET ROAD / NON NPS)
0.157	0.157	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.187	0.187	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.199	0.199	SIGN	RIGHT	GUIDE, EASTHAM COA SENIOR CENTER
0.199	0.199	SIGN	RIGHT	REGULATORY, BUCKLE UP IT'S THE LAW
0.201	0.201	SIGN	RIGHT	REGULATORY, 6
0.201	0.201	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.201	0.201	SIGN	RIGHT	REGULATORY, TO
0.207	0.207	INTERSECTION	LEFT	ROUTE 0010 (DOANE ROAD)
0.207	0.207	SIGN	RIGHT	REGULATORY, STOP
0.208	0.208	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.209	0.209	SIGN	LEFT	GUIDE, TO 6 BEACHES
0.226	0.226	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.235	0.235	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.247	0.247	SIGN	RIGHT	GUIDE, COAST GUARD BEACH NAUSET LIGHT BEACH
0.312	0.312	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.330	0.330	DROP INLET	RIGHT	
0.391	0.391	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.457	0.457	SIGN	RIGHT	WARNING, 20 M.P.H.
0.457	0.457	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.465	0.490	GUARD/GUIDE WALL	RIGHT	
0.474	0.474	DROP INLET	RIGHT	
0.475	0.475	DROP INLET	LEFT	
0.491	0.491	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.535	0.535	SIGN	RIGHT	WARNING, SHARE THE ROAD
0.566	0.566	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.566	0.566	SIGN	RIGHT	WARNING, 20 M.P.H.
0.607	0.607	DROP INLET	LEFT	
0.614	0.614	DROP INLET	LEFT	
0.620	0.620	DROP INLET	LEFT	
0.633	0.633	SIGN	LEFT	WARNING, STOP AHEAD
0.633	0.641	CURB	LEFT	

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0019: NAUSET ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.641	0.641	INTERSECTION	LEFT	ROUTE 0919 (SALT POND VISITOR CENTER PARKING)
0.641	0.641	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.641	0.641	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.642	0.642	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.648	0.648	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.649	0.658	CURB	LEFT	
0.651	0.651	SIGN	LEFT	REGULATORY, STOP
0.661	0.661	INTERSECTION	LEFT	ROUTE 0919 (SALT POND VISITOR CENTER PARKING)
0.661	0.661	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.662	0.662	SIGN	RIGHT	REGULATORY, STOP
0.680	0.680	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.680	0.680	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.681	0.681	SIGN	RIGHT	WARNING, STOP AHEAD
0.715	0.715	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.715	0.715	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.737	0.737	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.737	0.737	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.741	0.741	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.757	0.757	SIGN	LEFT	WARNING, UNABLE TO READ FROM VIDEO
0.762	0.762	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.764	0.764	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.764	0.764	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.766	0.766	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.766	0.766	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.772	0.772	SIGN	RIGHT	GUIDE, BEACHES
0.776	0.776	SIGN	LEFT	REGULATORY, STOP
0.777	0.777	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.780	0.780	INTERSECTION	LEFT	ROUTE 0919 (SALT POND VISITOR CENTER PARKING)
0.780	0.780	INTERSECTION	RIGHT	PAVED ROUTE (SCHOOLHOUSE ROAD / NON NPS)
0.783	0.795	CURB	LEFT	
0.787	0.787	SIGN	LEFT	GUIDE, SALT POND VISITOR CENTER
0.787	0.787	SIGN	RIGHT	GUIDE, SALT POND VISITOR CENTER
0.789	0.789	SIGN	RIGHT	GUIDE, SCHOOLHOUSE RD

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0019: NAUSET ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.789	0.789	SIGN	LEFT	GUIDE, SCHOOLHOUSE RD
0.793	0.793	SIGN	RIGHT	REGULATORY, STOP
0.794	0.794	SIGN	RIGHT	REGULATORY, 6
0.794	0.794	SIGN	RIGHT	REGULATORY, EAST
0.794	0.794	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.794	0.794	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.794	0.794	SIGN	RIGHT	REGULATORY, WEST
0.794	0.794	SIGN	RIGHT	REGULATORY, 6
0.798	0.798	INTERSECTION	LEFT	ROUTE 0919 (SALT POND VISITOR CENTER PARKING)
0.823	0.823	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 6 / NON NPS) SPUR
0.823	0.823	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.827	0.870	CURB	LEFT	
0.827	0.827	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.827	0.827	TRAFFIC LIGHT	LEFT	
0.829	0.829	INTERSECTION	RIGHT	PAVED ROUTE (PRESERVATION WAY / NON NPS)
0.830	0.830	DROP INLET	LEFT	
0.843	0.843	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 6 / NON NPS) SPUR
0.848	0.848	SIGN	LEFT	GUIDE, CAPE COD NATIONAL SEASHORE
0.851	0.870	CURB	RIGHT	
0.852	0.852	DROP INLET	LEFT	
0.852	0.852	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.856	0.856	DROP INLET	LEFT	
0.869	0.869	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.869	0.869	SIGN	RIGHT	REGULATORY, STOP LINE
0.869	0.869	TRAFFIC LIGHT	N/A	
0.869	0.869	TRAFFIC LIGHT	RIGHT	
0.870	0.870	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 6 / NON NPS)
0.870	0.870	TRAFFIC LIGHT	RIGHT	
0.870	0.870	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 6 / NON NPS)
0.870	0.870	INTERSECTION	N/A	PAVED ROUTE (SALT POND ROAD / NON NPS)
0.870	0.870	ROUTE END	N/A	TO STATE ROUTE 6

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0020: OLD DEWLINE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM SOUTH HIGHLANDS ROAD (TOWN ROAD)
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (SOUTH HIGHLANDS ROAD (TOWN ROAD))
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (SOUTH HIGHLANDS ROAD (TOWN ROAD))
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.010	0.010	DROP INLET	RIGHT	
0.170	0.170	INTERSECTION	LEFT	UNPAVED ROUTE
0.288	0.288	INTERSECTION	RIGHT	UNPAVED ROUTE
0.470	0.470	SIGN	LEFT	GUIDE, HIGHLANDS CENTER AT CAPE COD NATIONAL SEASHORE
0.472	0.472	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.474	0.474	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.480	0.480	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.489	0.489	INTERSECTION	LEFT	ROUTE 0231 (NAC LABORATORY ACCESS ROAD)
0.497	0.497	INTERSECTION	LEFT	ROUTE 0935B (OLD DEWLINE ROAD B PARKING)
0.511	0.511	INTERSECTION	RIGHT	ROUTE 0935A (OLD DEWLINE ROAD A PARKING)
0.527	0.527	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.528	0.528	INTERSECTION	LEFT	PAVED ROUTE (FAA ROAD)
0.528	0.530	CURB	RIGHT	
0.530	0.530	INTERSECTION	N/A	ROUTE 0232 (NTAFS ACCESS ROAD)
0.530	0.530	INTERSECTION	RIGHT	ROUTE 0227 (NTAFS LANDING ROAD)
0.530	0.530	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.530	0.530	ROUTE END	N/A	TO ROUTE 0232 AND ROUTE 0227 INTERSECTION

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200: FORT HILL AREA ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM GOVERNOR PRENCE ROAD (TOWN ROAD)
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (GOVERNOR PRENCE ROAD / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (GOVERNOR PRENCE ROAD / NON NPS)
0.000	0.000	PARK BOUNDARY	N/A	
0.006	0.006	SIGN	RIGHT	GUIDE, FORT HILL AREA
0.006	0.006	SIGN	RIGHT	GUIDE, FORT HILL RD
0.006	0.006	SIGN	RIGHT	GUIDE, NO VEHICLES OVER 20 FT. ALLOWED
0.021	0.021	INTERSECTION	RIGHT	PAVED ROUTE (GOVERNOR PRENCE ROAD E / NON NPS) SPUR
0.023	0.023	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.026	0.026	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.028	0.028	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
0.031	0.031	SIGN	RIGHT	GUIDE, NEIGHBOURHOOD WATCH
0.038	0.038	SIGN	RIGHT	GUIDE, FORT HILL RURAL HISTORIC DISTRICT
0.045	0.045	SIGN	RIGHT	REGULATORY, SPEED LIMIT 20
0.054	0.054	SIGN	RIGHT	GUIDE, PENNIMAN HOUSE
0.072	0.090	GUARD/GUIDE WALL	RIGHT	
0.090	0.105	CURB	RIGHT	
0.093	0.093	SIGN	RIGHT	GUIDE, AUTHORIZED VEHICLES ONLY
0.118	0.118	INTERSECTION	LEFT	ROUTE 0916 (FORT HILL LOWER PARKING AREA)
0.118	0.118	SIGN	RIGHT	GUIDE, PENNIMAN HOUSE
0.122	0.122	SIGN	LEFT	GUIDE, THIS LOT IS CLOSED 9PM-7AM
0.123	0.123	SIGN	LEFT	GUIDE, FORT HILL AREA
0.238	0.238	SIGN	LEFT	REGULATORY, NO PARKING TOW AWAY ZONE
0.266	0.266	SIGN	LEFT	REGULATORY, NO PARKING TOW AWAY ZONE
0.295	0.295	SIGN	LEFT	REGULATORY, NO PARKING TOW AWAY ZONE
0.300	0.300	INTERSECTION	N/A	ROUTE 0915 (FORT HILL UPPER PARKING AREA)
0.300	0.300	ROUTE END	N/A	TO ROUTE 0915 (FORT HILL UPPER PARKING AREA)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201: DOANE ROCK PICNIC AREA ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (DOANE ROAD) AT MP 0.39 (ON RIGHT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (DOANE ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (DOANE ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.004	0.004	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.016	0.016	SIGN	RIGHT	GUIDE, DOANE ROCK PICNIC AREA
0.016	0.016	SIGN	RIGHT	GUIDE, NO PETS
0.016	0.016	SIGN	RIGHT	GUIDE, RESTROOMS CLOSED
0.030	0.035	CURB	LEFT	
0.038	0.038	INTERSECTION	LEFT	ROUTE 0911A (DOANE ROCK PICNIC AREA A PARKING)
0.045	0.057	CURB	LEFT	
0.059	0.059	INTERSECTION	LEFT	ROUTE 0911A (DOANE ROCK PICNIC AREA A PARKING)
0.082	0.082	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.084	0.084	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.094	0.094	INTERSECTION	RIGHT	UNPAVED ROUTE (PINECREST DRIVE)
0.124	0.124	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.124	0.124	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.124	0.124	SIGN	RIGHT	GUIDE, NO PETS
0.140	0.140	INTERSECTION	N/A	ROUTE 0911B (DOANE ROCK PICNIC AREA B PARKING)
0.140	0.140	ROUTE END	N/A	TO ROUTE 0911B (DOANE ROCK PICNIC AREA B PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202: TOMAHAWK TRAIL

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (DOANE ROAD) AT MP 0.31 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (DOANE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (DOANE ROAD)
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.005	0.005	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.014	0.014	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.036	0.036	INTERSECTION	RIGHT	UNPAVED ROUTE
0.077	0.077	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.124	0.124	SIGN	RIGHT	REGULATORY, STOP
0.130	0.130	SIGN	LEFT	GUIDE, BICYCLE SAFETY REGULATIONS
0.132	0.132	SIGN	RIGHT	REGULATORY, STOP
0.155	0.155	SIGN	RIGHT	GUIDE, PRIVATE HOMES BE COURTEOUS AND RESPECT OWNER'S RIGHTS
0.175	0.175	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.176	0.176	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.179	0.179	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.180	0.180	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.253	0.253	INTERSECTION	LEFT	PAVED ROUTE (NON NPS)
0.390	0.390	SIGN	LEFT	WARNING, UNABLE TO READ FROM VIDEO
0.424	0.430	GUARD/GUIDE WALL	LEFT	
0.555	0.555	INTERSECTION	LEFT	ROUTE 0202 (TOMAHAWK TRAIL)
0.590	0.590	INTERSECTION	LEFT	ROUTE 0202 (TOMAHAWK TRAIL)
0.590	0.590	INTERSECTION	N/A	ROUTE 0202 (TOMAHAWK TRAIL)
0.590	0.590	ROUTE END	N/A	TO END OF LOOP

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0204: MARCONI EMPLOYEE PARKING ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.05 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.024	0.024	FIRE HYDRANT	RIGHT	
0.089	0.089	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.129	0.129	INTERSECTION	LEFT	ROUTE 0918 (OLD VEHICLE STORAGE AREA)
0.130	0.130	INTERSECTION	N/A	ROUTE 0917 (PARK HEADQUARTERS EMPLOYEE PARKING)
0.130	0.130	ROUTE END	N/A	TO ROUTE 0917 (PARK HEADQUARTERS EMPLOYEE PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0205: HEAD OF THE MEADOW BEACH ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM HEAD OF THE MEADOW ROAD (TOWN ROAD)
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (HEAD OF THE MEADOW ROAD / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (HEAD OF THE MEADOW ROAD / NON NPS)
0.013	0.013	SIGN	RIGHT	REGULATORY, YIELD
0.017	0.017	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.027	0.027	GATE	N/A	
0.027	0.027	SIGN	RIGHT	GUIDE, HEAD OF THE MEADOW BEACH
0.039	0.039	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.094	0.094	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
0.113	0.113	SIGN	RIGHT	GUIDE, TURN AROUND AHEAD
0.113	0.113	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.113	0.113	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.114	0.114	SIGN	LEFT	GUIDE, HEAD OF THE MEADOW BICYCLE TRAIL
0.114	0.114	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.120	0.120	INTERSECTION	N/A	ROUTE 0927 (HEAD OF THE MEADOW PARKING)
0.120	0.120	ROUTE END	N/A	TO ROUTE 0927 (HEAD OF THE MEADOW PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0206: PILGRIM HEIGHTS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE ROUTE 6
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 6)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 6)
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.004	0.016	CURB	LEFT	
0.039	0.039	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 6) SPUR
0.057	0.057	SIGN	RIGHT	WARNING, STOP AHEAD
0.060	0.060	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
0.063	0.063	SIGN	RIGHT	REGULATORY, HUNTING PROHIBITED
0.206	0.206	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.206	0.206	INTERSECTION	RIGHT	ROUTE 0206 (PILGRIM HEIGHTS ROAD)
0.215	0.215	INTERSECTION	RIGHT	ROUTE 0206 (PILGRIM HEIGHTS ROAD) SPUR
0.383	0.383	SIGN	RIGHT	GUIDE, PILGRIM HEIGHTS
0.436	0.436	INTERSECTION	LEFT	ROUTE 0905AAZ (PILGRIM HEIGHTS PICNIC AREA PARKING WEST A)
0.436	0.436	INTERSECTION	RIGHT	ROUTE 0905ABZ (PILGRIM HEIGHTS PICNIC AREA PARKING WEST B)
0.652	0.652	INTERSECTION	LEFT	ROUTE 0905BAZ (PILGRIM HEIGHTS PICNIC AREA PARKING EAST A)
0.652	0.652	INTERSECTION	RIGHT	ROUTE 0905BBZ (PILGRIM HEIGHTS PICNIC AREA PARKING EAST B)
0.868	0.868	INTERSECTION	RIGHT	ROUTE 0206 (PILGRIM HEIGHTS ROAD) SPUR
0.870	0.870	SIGN	LEFT	REGULATORY, STOP
0.870	0.870	SIGN	RIGHT	GUIDE, EXIT
0.870	0.870	INTERSECTION	RIGHT	ROUTE 0206 (PILGRIM HEIGHTS ROAD)
0.870	0.870	INTERSECTION	LEFT	ROUTE 0206 (PILGRIM HEIGHTS ROAD)
0.870	0.870	ROUTE END	N/A	TO END OF LOOP

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0209: RACE POINT COAST GUARD STATION ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0014 (RACE POINT ROAD) AT MP 1.87 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0014 (RACE POINT ROAD)
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.000	0.000	INTERSECTION	LEFT	ROUTE 0014 (RACE POINT ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.009	0.009	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.010	0.010	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.011	0.011	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6 A.M.
0.013	0.013	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.013	0.013	SIGN	LEFT	REGULATORY, MOTORIZED VEHICLES PROHIBITED
0.013	0.013	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.014	0.014	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.014	0.014	SIGN	LEFT	WARNING, CAUTION AHEAD
0.015	0.015	SIGN	LEFT	REGULATORY, HUNTING PROHIBITED
0.021	0.021	SIGN	RIGHT	GUIDE, OVERSAND PERMITS
0.055	0.055	INTERSECTION	RIGHT	ROUTE 0903 (RACE POINT AIR STATION PARKING)
0.130	0.130	INTERSECTION	LEFT	UNPAVED ROUTE (VIEW POWERLINE ROAD)
0.133	0.133	SIGN	LEFT	REGULATORY, FREE ROAD
0.133	0.133	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.155	0.155	FIRE HYDRANT	RIGHT	
0.156	0.156	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.157	0.157	SIGN	RIGHT	GUIDE, AUTHORIZED VEHICLES ONLY
0.157	0.157	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.158	0.158	SIGN	RIGHT	REGULATORY, STOP
0.160	0.160	INTERSECTION	N/A	ROUTE 0928 (RACE POINT RANGER STATION PARKING)
0.160	0.160	ROUTE END	N/A	TO ROUTE 0928 (RACE POINT RANGER STATION PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0211: NAUSET LIGHT BEACH ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5001 AND ROUTE 0011 INTERSECTION
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (CABLE ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 5001 (OCEAN VIEW DRIVE)
0.000	0.000	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.001	0.001	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.006	0.006	SIGN	RIGHT	GUIDE, NAUSET LIGHT BEACH
0.006	0.006	SIGN	RIGHT	GUIDE, RESTROOMS CLOSED
0.009	0.009	SIGN	RIGHT	REGULATORY, RIGHT LANE MUST TURN RIGHT
0.018	0.018	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.018	0.018	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.018	0.018	SIGN	RIGHT	REGULATORY, EITHER SIDE OF STREET
0.023	0.023	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.024	0.024	SIGN	LEFT	GUIDE, NAUSET LIGHT HOURS
0.027	0.027	SIGN	RIGHT	REGULATORY, RIGHT LANE MUST TURN RIGHT
0.031	0.031	SIGN	RIGHT	GUIDE, EROSION CONTROL AREA
0.035	0.035	INTERSECTION	LEFT	PAVED ROUTE (NAUSET LIGHT BEACH ROAD / NON NPS)
0.039	0.039	SIGN	RIGHT	REGULATORY, STOP
0.049	0.049	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.049	0.049	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
0.060	0.060	SIGN	RIGHT	GUIDE, AREA CLOSED MIDNIGHT TO 6:00 A.M.
0.060	0.060	SIGN	RIGHT	REGULATORY, ONE WAY
0.060	0.060	INTERSECTION	N/A	ROUTE 0912 (NAUSET LIGHT BEACH PARKING)
0.060	0.060	GATE	N/A	
0.060	0.060	ROUTE END	N/A	TO ROUTE 0912 (NAUSET LIGHT BEACH PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0223: MACPHERSON WAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0019 (NAUSET ROAD) AT START
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (NAUSET ROAD / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0019 (NAUSET ROAD)
0.009	0.009	SIGN	RIGHT	WARNING, DEAD END
0.140	0.140	INTERSECTION	N/A	DEAD END
0.140	0.140	ROUTE END	N/A	TO END OF PAVEMENT

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0231: NAC LABORATORY ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0020 (OLD DEWLINE ROAD) AT MP 0.49 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0020 (OLD DEWLINE ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0020 (OLD DEWLINE ROAD)
0.006	0.006	INTERSECTION	RIGHT	ROUTE 0935B (OLD DEWLINE ROAD B PARKING)
0.080	0.080	INTERSECTION	N/A	ROUTE 0922 (NAC LABORATORY PARKING)
0.080	0.080	ROUTE END	N/A	TO ROUTE 0922 (NAC LABORATORY PARKING)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0232: NTAFS ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0020 (OLD DEWLINE ROAD) AT END
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0227 (NTAFS LANDING ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0020 (OLD DEWLINE ROAD)
0.006	0.006	SIGN	RIGHT	REGULATORY, SPEED LIMIT 5 MPH
0.010	0.010	SIGN	RIGHT	GUIDE, ARC PAYOMENT KILN
0.014	0.014	SIGN	LEFT	GUIDE, AUTHORIZED PERSONNEL ONLY ACCESS FOR PUBLIC IS ALLOWED DURING ORGANIZED TOURS AND SPECIAL EVENTS
0.015	0.015	SIGN	RIGHT	GUIDE, NO TRESPASSING
0.029	0.029	FIRE HYDRANT	LEFT	
0.055	0.055	INTERSECTION	LEFT	ROUTE 0937B (NTAFS ACCESS ROAD B PARKING)
0.055	0.055	INTERSECTION	RIGHT	ROUTE 0937A (NTAFS ACCESS ROAD A PARKING)
0.090	0.109	CURB	LEFT	
0.095	0.095	SIGN	RIGHT	REGULATORY, SPEED LIMIT 5 MPH
0.099	0.148	CURB	RIGHT	
0.101	0.101	FIRE HYDRANT	LEFT	
0.117	0.117	INTERSECTION	LEFT	ROUTE 0937C (NTAFS ACCESS ROAD C PARKING)
0.133	0.133	INTERSECTION	LEFT	ROUTE 0938 (AIR FORCE MAINTENANCE AREA)
0.138	0.147	CURB	LEFT	
0.150	0.150	INTERSECTION	LEFT	ROUTE 0938 (AIR FORCE MAINTENANCE AREA)
0.150	0.150	INTERSECTION	RIGHT	ROUTE 0233 (NTAFS FUEL HOUSE ROAD)
0.153	0.170	CURB	LEFT	
0.155	0.190	CURB	RIGHT	
0.172	0.172	FIRE HYDRANT	RIGHT	
0.187	0.187	FIRE HYDRANT	RIGHT	
0.190	0.190	INTERSECTION	N/A	PAVED ROUTE (FAA ROAD)
0.190	0.190	ROUTE END	N/A	TO PAVEMENT CHANGE AT FAA ACCESS ROAD

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0401: B-WELL ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0013 (MARCONI SITE ROAD) AT MP 0.28 (ON RIGHT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0013 (MARCONI SITE ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0013 (MARCONI SITE ROAD)
0.060	0.060	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.116	0.116	INTERSECTION	LEFT	UNPAVED ROUTE
0.250	0.250	INTERSECTION	N/A	DEAD END
0.250	0.250	INTERSECTION	RIGHT	UNPAVED ROUTE (MARCONI STATION ROAD)
0.250	0.250	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.250	0.250	ROUTE END	N/A	TO END OF PAVEMENT

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0402: MARCONI RESIDENCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD) AT MP 0.07 (ON LEFT)
0.000	0.000	INTERSECTION	N/A	ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0403 (MARCONI MAINTENANCE AREA ROAD)
0.011	0.011	SIGN	RIGHT	GUIDE, PRIVATE HOMES DEAD END
0.014	0.014	SIGN	RIGHT	REGULATORY, YIELD
0.018	0.018	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.033	0.033	SIGN	LEFT	GUIDE, GO SLOW CHILDREN
0.035	0.045	GUARD/GUIDE WALL	RIGHT	
0.064	0.064	INTERSECTION	RIGHT	ROUTE 0910 (MARCONI RESIDENCE ROAD PARKING)
0.123	0.123	FIRE HYDRANT	LEFT	
0.140	0.140	INTERSECTION	N/A	DEAD END
0.140	0.140	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
0.140	0.140	ROUTE END	N/A	TO END OF PAVEMENT

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0403: MARCONI MAINTENANCE AREA ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0013 (MARCONI SITE ROAD) AT MP 0.04 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0013 (MARCONI SITE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0013 (MARCONI SITE ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.028	0.028	SIGN	RIGHT	GUIDE, MAINTENANCE QUARTERS
0.046	0.046	INTERSECTION	RIGHT	ROUTE 0204 (MARCONI EMPLOYEE PARKING ROAD)
0.069	0.069	INTERSECTION	LEFT	ROUTE 0402 (MARCONI RESIDENCE ROAD)
0.096	0.096	INTERSECTION	LEFT	ROUTE 0909BZ (MARCONI MAINTENANCE PARKING B)
0.100	0.110	CURB	LEFT	
0.110	0.110	INTERSECTION	N/A	ROUTE 0909AZ (MARCONI MAINTENANCE PARKING A)
0.110	0.110	SIGN	LEFT	GUIDE, AUTHORIZED PERSONNEL ONLY
0.110	0.110	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.110	0.110	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.110	0.110	ROUTE END	N/A	TO ROUTE 0909ZZ (MARCONI MAINTENANCE PARKING AREAS)

CACO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0407AZ: PROVINCE LANDS RESIDENCE ROAD A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0014 (RACE POINT ROAD) AT MP 0.08 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0014 (RACE POINT ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0014 (RACE POINT ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.014	0.014	SIGN	RIGHT	REGULATORY, FASTEN SEAT BELT
0.023	0.023	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.036	0.036	INTERSECTION	RIGHT	ROUTE 0925 (PROVINCE LANDS MAINTENANCE PARKING)
0.047	0.047	INTERSECTION	RIGHT	ROUTE 0925 (PROVINCE LANDS MAINTENANCE PARKING)
0.057	0.057	FIRE HYDRANT	RIGHT	
0.058	0.058	SIGN	RIGHT	GUIDE, PRIVATE HOMES DEAD END
0.058	0.058	SIGN	RIGHT	WARNING, DEAD END
0.075	0.075	SIGN	RIGHT	WARNING, SLOW CHILDREN
0.085	0.085	INTERSECTION	RIGHT	ROUTE 0407BZ (PROVINCE LANDS RESIDENCE ROAD B)
0.124	0.124	FIRE HYDRANT	LEFT	
0.140	0.140	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
0.140	0.140	INTERSECTION	N/A	DEAD END
0.140	0.140	ROUTE END	N/A	TO END OF PAVEMENT

Cape Cod National Seashore



Section 10 Appendix

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AADT	(Annual Average Daily Traffic) The estimate of typical daily traffic on a road segment for all days of the week over the period of one year.
CRS	Condition Rating Sheets. (Section 5)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value from 61 to 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
N/A	Not Applicable
NC	Not Collected
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (Appendix B, Section 10)
Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	(Seasonal Annual Daily Traffic) The AADT adjusted to represent just the period of the year containing 80 percent of the total annual traffic.
SCR	Surface Condition Rating (Appendix B, Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point.

APPENDIX B: DESCRIPTION OF RATING SYSTEM

A numerical roadway rating system is used to describe the overall condition of the paved roadways and paved parking areas. In this system, a numerical rating between 0 and 100 is ascribed to each 0.02 miles of road. This numerical rating is called a Pavement Condition Rating (PCR). A “perfect” road, newly constructed with no surface distresses and a smooth surface, would be assigned a PCR rating of 100. Based on the type, severity, and extent of surface distresses points are deducted from 100 to arrive at the final PCR.

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can occur anywhere in the lane.
- **Longitudinal Cracking** - cracks which are parallel to the pavement centerline or asphalt lay-down direction.
- **Transverse Cracking** - cracks perpendicular to the pavement centerline.
- **Pothole (patch)** - a bowl-shaped hole in the pavement surface. May be patched or not.
- **Rutting** - surface depressions in the wheel paths.
- **Roughness** is collected as International Roughness Index (IRI) and is used in the PCR formula. Roughness is measured in inches of vertical displacement of the vehicle per mile traveled.

A Distress Rating Index value is calculated for each of the individual distresses at the 0.02 mile, or every 105.6 feet.

Calculation of Index Values

Note: Index values < 0 default to 0. Index values > 100 default to 100.

For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.

All severity protocols are taken from the SHRP Distress Identification Manual.

Condition Ranges for all Indices

Excellent	>=95
Good	>=85 and <95
Fair	>60 and <85
Poor	<=60

Alligator Crack Index

$$AC_INDEX = 100 - 40 * [(\%LOW / 70) + (\%MED / 30) + (\%HI / 10)]$$

Where :

The values %LOW, %MED and %HI describe the percent of the total WX measured area that is affected by alligator cracking of each severity level. These values range from ≥ 0 to ≤ 100 .

$\%LOW$ = (Total square area WX measured low severity alligator cracking) / (Section length * WX measured lane width)

$\%MED = (\text{Total square area WX measured medium severity alligator cracking}) / (\text{Section length} * \text{WX measured lane width})$

$\%HI = (\text{Total square area WX measured high severity alligator cracking}) / (\text{Section length} * \text{WX measured lane width})$

The denominators 70, 30, and 10 are the maximum allowable extents for the numerator value in the same units. For example, low severity alligator cracking totaling 70% of the measured section area would alone fail that section of road for this index.

The threshold for failure for this index is $AC_INDEX = 60$.

Severity Levels:

Low severity alligator cracking describes an area of cracks with no or only a few connecting cracks; cracks are not spalled (cracked, broken, chipped, frayed along the cracks); pumping (water seepage from beneath the pavement through the cracks) is not evident. Any sealed alligator cracks are low severity alligator cracks, as long as the sealant is still in good condition. If the sealant has reopened, and the crack is visible and can be measured, the crack severity is assigned according to that measurement.

Medium severity alligator cracking describes an area of interconnected cracks forming a complete pattern; cracks may be slightly spalled; pumping is not evident.

High severity alligator cracking describes an area of moderately or severely spalled interconnected cracks forming a complete pattern; pieces may move when subjected to traffic; pumping may be evident.

Longitudinal Crack Index

$$LC_INDEX = 100 - 40 * [(\%LOW / 350) + (\%MED / 200) + (\%HI / 75)]$$

Where:

The values %LOW, %MED and %HI describe the length of longitudinal cracking of each severity as a percent of the section length. These values are ≥ 0 and can exceed 100.

$\%LOW = (\text{Total linear feet WX measured low severity longitudinal cracking}) / (\text{Section length in linear feet})$

$\%MED = (\text{Total linear feet WX measured medium severity longitudinal cracking}) / (\text{Section length in linear feet})$

$\%HI = (\text{Total linear feet WX measured high severity longitudinal cracking}) / (\text{Section length in linear feet})$

The denominators 350, 200, and 75 are the maximum allowable extents for the numerator value in the same units. For example, medium severity longitudinal cracking with a total length that is 200% of the length of the section would alone fail that section of road for this index.

The threshold for failure for this index is $LC_INDEX = 60$.

Severity Levels:

Low severity longitudinal cracks have a mean width $\leq 1/4$ " , or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity longitudinal cracks have a mean width $> 1/4$ " and $\leq 3/4$ ".

High severity longitudinal cracks have a mean width $> 3/4$ ".

Transverse Crack Index

$$TC_INDEX = 100 - \{[20 * ((LOW / 15.1) + (MED / 7.5))] + [40 * (HI / 1.9)]\}$$

Where:

The values **LOW**, **MED** and **HI** describe a count of the total number of transverse cracks of each severity level, where one transverse crack unit is equal to the WX measured lane width. These values are ≥ 0 .

LOW = (Total linear feet WX measured low severity transverse cracking) / (WX measured lane width)

MED = (Total linear feet WX measured medium severity transverse cracking) / (WX measured lane width)

HI = (Total linear feet WX measured high severity transverse cracking) / (WX measured lane width)

The denominators **15.1**, **7.5**, and **1.9** are the maximum allowable extents for the numerator value in the same units. For example, high severity transverse cracking with a total length that amounts to 1.9 times the WX measured lane width would alone fail that section of road for this index.

The threshold for failure for this index is $TC_INDEX = 60$.

Severity Levels:

Low severity transverse cracks have a mean width $\leq \frac{1}{4}$ " , or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity transverse cracks have a mean width $> \frac{1}{4}$ " and $\leq \frac{3}{4}$ " .

High severity transverse cracks have a mean width $> \frac{3}{4}$ " .

Patching Index

$$PATCH_INDEX = 100 - 40 * (\%PATCHING / 80)$$

Where:

The value **%PATCHING** describes the percent of the total WX measured area that is affected by patching. This value ranges from ≥ 0 to ≤ 100 .

%PATCHING = (Total area WX measured patching) / (Section length * WX measured lane width)

The denominator **80** is the maximum allowable extent for the numerator value in the same units. Patching totaling 80% or more of the measured section area fails a section of road for this index.

The threshold for failure for this index is $PATCH_INDEX = 60$.

There are no severity levels for patching.

Rutting Index

$$RUT_INDEX = 100 - 40 * [(\%LOW / 160) + (\%MED / 80) + (\%HI / 40)]$$

Where:

10 ARAN rut depth measurements are taken per full .02 section for each of 2 wheel paths (left and right), resulting in a total of 20 measurements taken for both wheel paths. The values %LOW, %MED and %HI describe the number of ARAN rut depth measurements of both wheel paths in the section whose values are of each severity level, calculated as a percentage of the total number of ARAN rut depth measurements taken for a single wheel path in the section. These values range from ≥ 0 to ≤ 200 .

%LOW = (Total number of ARAN measured low severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

%MED = (Total number of ARAN measured medium severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

%HI = (Total number of ARAN measured high severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

The denominators 160, 80, and 40 are the maximum allowable extents for the numerator value in the same units. For example, low severity ruts recorded in 16 of the 20 total readings (or 160% of a full wheel path's worth of readings) for a full .02 section would fail that section for this index.

The threshold for failure for this index is RUT_INDEX = 60.

Severity Levels:

Ruts with an ARAN measured depth $< 0.20''$ are not included in the distress calculations.

Low severity ruts have an ARAN measured depth $\geq 0.20''$ and $\leq 0.49''$.

Medium severity ruts have an ARAN measured depth $\geq 0.50''$ and $\leq 0.99''$.

High severity ruts have an ARAN measured depth $\geq 1.00''$.

Roughness Condition Index

$$RCI = 32 * [5 * (2.718282 ^ (-0.0041 * AVG IRI))]$$

Where:

The value AVG IRI describes the average value of the Left IRI and Right IRI measurements for the section. This value can range from approximately 40 to over 1000.

$$AVG IRI = (ARAN \text{ measured Left IRI} + ARAN \text{ measured Right IRI}) / 2$$

There is no applicable threshold for failure for this index.

NOTE: Collection of roughness data is dependent on the data collection vehicle traveling at a minimum speed of 12 mph. In the event that a route cannot be safely traveled at this minimum speed, and results in no roughness data, the SCR only will be calculated.

Surface Condition Rating Index

$$SCR = 100 - [(100 - AC_INDEX) + (100 - LC_INDEX) + (100 - TC_INDEX) + (100 - PATCH_INDEX) + (100 - RUT_INDEX)]$$

Where:

See above for determinations of [AC_INDEX](#), [LC_INDEX](#), [TC_INDEX](#), [PATCH_INDEX](#) and [RUT_INDEX](#).

The threshold for failure for this index is $SCR = 60$.

Pavement Condition Rating Index Asphaltic Concrete Pavement (AS)

$$PCR = (0.60 * SCR) + (0.40 * RCI)$$

Where:

See above for determinations of [SCR](#) and [RCI](#).

The values [0.60](#) and [0.40](#) function as weights within the formula.

If [SCR](#) equals zero (which means that the road surface condition is very poor), then the formula simply reduces to: $PCR = 0.40 * RCI$.

If [RCI](#) equals zero (which means that this value was not available for some reason), then the formula becomes: $PCR = SCR$.

The threshold for failure for this index is $PCR = 60$.

Pavement Condition Rating Index Portland Cement Concrete Pavement (CO)

$$\text{Concrete PCR} = -0.0012(IRI^2) + 0.0499(IRI) + 99.542$$

Where:

The threshold for failure for this index is $PCR = 60$.

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

- Raveling – loss of surface rock chips revealing previous surface
- Bleeding – asphalt or tar is bleeding through to the surface where surface looks slick with asphalt
- Rutting
- Potholes/Patching

Ratings - Chip Seal:

- Excellent – None of the surface affected by the above (recently constructed)
- Good – Less than 10% of surface affected by the above
- Fair – Between 10% and 40% of surface affected by the above
- Poor – More than 40% of surface affected by the above

Surface Condition - Asphalt:

- Cracking of any type
- Rutting
- Potholes/Patching

Ratings - Asphalt:

Excellent – None of the surface affected by the above (recently constructed)

Good – Less than 10% of surface affected by the above

Fair – Between 10% and 40% of surface affected by the above

Poor – More than 40% of surface affected by the above

Index Values of Visual Ratings on Parking Lots and Manually Rated Roads

Under Construction 100

Excellent 97

Good 90

Fair 73

Poor 45

APPENDIX C: GENERAL INFORMATION ON RIP SYSTEMS

DMI (Distance Measuring Instrument)

The DMI (Distance Measuring Instrument) obtains road length measurements that are highly accurate (to 0.001 miles). The DMI is connected to the outside of the rear wheel on the driver's side, and is wired into the antilock braking system (ABS). The number of pulses recorded for each wheel rotation by the ABS is registered by the DMI, which transmits a measurement of distance traveled to the processing computers in the ARAN. The DMI distance measurements are the foundation to which all the other subsystems are tied.

Digital Image Information

All images collected in Cycle 4 are digital images in .jpg format. These images provide adequate resolution for identifying sign and feature inventories and pavement evaluations. The images can be viewed with an interactive software program called VisiData. Each park will receive a copy of the VisiData program. Cycle 4 data, as well as Cycle 3 data, can be viewed using the Visi-Data software program. This program is a data presentation and analysis tool that can be accessed either at the individual park, park region or at NPS headquarters. The data is organized in a hierarchical manner and presented in tabular and graphical formats. The user is able to perform queries and drill down through the data to find the particular information they are looking for. Associated digital right-of-way images from either the LAN, USB port, individual DVD can be presented along with GPS locations.

Right-of-way (ROW) Video

Three digital cameras are mounted above the vehicle's windshield that point directly forward and slightly to the left and right. These cameras each collect one image every 0.002 miles (10.56 feet) in the primary-direction lane, to give a panoramic field-of-view of about 160 degrees. (Forward-facing video from the center camera only is collected in the opposite-direction lane of travel.)

If data collection speed exceeds 35-40 mph, the network and storage computers may become overwhelmed and may begin to drop individual video frames. Occasional common video quality issues include sun glare and rapid changes between sunlight and shadow. The camera system is equipped with auto risers that sometimes cannot adjust quickly enough to collect optimal video images.

FHWA ARAN CAMERA SPECIFICATIONS	
Forward-Facing Cameras (ROW)	
Focal length	10 mm
Chip size	8.71mm X 6.90mm
Naming convention of each image	chainage.jpg
Image resolution	1300 X 1030
Image pixel size	depends on distance
Relative position of the GPS unit to each camera	2.104 meters from front-center rutbar to camera
<i>The ARAN has a lever arm setting which tells the POS system where the center of the rutbar is with respect to the GPS antennas.</i>	

Pavement Video

Pavement video images are collected by the data collection vehicle to use in later analysis to determine extents and severities of different types of pavement distress. The pavement in the primary-direction road lane is filmed continuously by two analog cameras attached to booms extended from the rear of the ARAN on the left and right sides. Strobe lights fire synchronously with the opening of the camera shutters to eliminate shadows and motion blur. The images from the two cameras overlap, and are stitched together in real time to create a continuous strip image of the pavement in the primary direction lane. This strip has a maximum width of 3.0 meters (actual width depends on pavement camera calibration) and is sectioned for ease of file management every 0.010 miles (52.8 feet).

The cameras both have a resolution of 640 x 480, making the threshold of visible pavement cracks about 3 mm. Because the cameras are triggered by time and not distance traveled, this subsystem requires a minimum operating speed of 6 mph, otherwise images are taken on top of one another and result in checkered or black pavement video.

FHWA ARAN CAMERA SPECIFICATIONS	
Pavement Cameras	
Image Pixel size	3.135 mm /side
Image Resolution	640 X 480
Area that images cover	1.5 m X 1.2 m
Full color or grayscale	grayscale
Vehicle speed limitations	80km/h
Aperture setting	Auto-iris
Exposure setting	1/50000

FHWA ARAN GPS & Inertial System

GPS is collected by a NovAtel MiLLenium, 12 channel, dual frequency L1/L2, DGPS ready receiver with a MiLLennium 502 GPS antenna. An OmniStar 3000 LR provides real-time differential correction. An Applanix POS/LV is the inertial system that fills in when GPS is unavailable. The antenna is mounted in the center of the roof, slightly toward the rear of the vehicle, but a lever arm is applied to place the operational location of GPS recording at the center of the rutbar on the front bumper of the vehicle. Expected accuracy under ideal conditions is sub meter.

GPS Collected on Manually Rated Routes

Parking areas and roads that are not fully drivable with the ARAN data collection vehicle are collected manually by field technicians. GPS is collected for these routes using GPS field data collection utilizes Trimble ProXRS or ProXH Receivers matched with Trimble TSC1 or Ranger handheld Data Loggers, connected to Trimble Hurricane Antennas giving sub meter accuracy in ideal conditions. This collection equipment has varied as technology has improved over the years of RIP data collection. Some GPS files collected as early as 1998 have been verified for accuracy and perpetuated through the current cycle of data collection.

GPS SHAPEFILES

Type of Route and Collection Shape Filename		
Roads driven by ARAN	Line	park_road_04.dbf/.shp/.shx
Parking Areas	Polygon	park_pkg_04.dbf/.shp/.shx
Roads Manually Rated as Lines (not in every park)	Line	park_mrl_04.dbf/.shp/.shx
Roads Manually Rated as Polygons (not in every park)	Polygon	park_mrp_04.dbf/.shp/.shx

- Datum for all GPS shapefiles is LL_WGS84_DD (Latitude Longitude _World Geodetic Survey 1984 _Decimal Degrees)
- In filename, “park” is NPS four-letter alphabetic code.
- The source for route data required for data processing and report production is the PARK_RouteInfo.mdb.

Condition Photos Taken of Manually Rated Roads

One or more digital photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera for each manually rated route in a National Park. They are stored in .jpg format named with the four-letter NPS park alphabetic code, route number, and the photo number assigned by the camera. For example, YOSE_0900_4434.jpg is the filename of the photo named 4434 by the camera that was taken of Yosemite National Park route 0900.

Scenic Photos

Scenic photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera throughout each park and are named with the four-letter NPS park alphabetic code and the count of the photo taken in that park. For example, GRCA003.jpg is the filename of the third scenic photo taken in Grand Canyon National Park. The number of scenic photos provided will vary between parks.

APPENDIX D: METADATA

FHWA – NPS Road Inventory Program Cycle 4 Metadata

The purpose of these sheets is to provide users of the Road Inventory Program’s data with data accuracies and tolerances to help users define ways in which the RIP data can and cannot be used. For further information on specifics of data collection equipment, data collection procedures, equipment calibrations, or quality control/quality assurance procedures, please contact Jim Kennedy, Project Manager, Data Quality Assurance, at 720-963-3560 or jim.kennedy@fhwa.dot.gov.

All Road Inventory Program data undergoes quality control and quality assurance testing. This document represents the known data accuracies and tolerances for the data collection equipment, data collection procedures, and data processing procedures currently in use. Many additional tests conducted on the park databases during the quality assurance phase to ensure data integrity are not listed as a part of this document. Before it is delivered, a park database undergoes a large set of table design consistency, field data format consistency, data completeness, uniqueness of key fields, data reasonableness, acceptable data range, within-field data consistency, between-field data consistency, and between-table data consistency tests. Additional data sampling checks are conducted to ensure proper data upload from raw files into the park database and to quality check the pavement crack analysis. Further information is detailed in the FHWA – NPS RIP Quality Assurance Manual, available upon request.

This description of metadata includes only the known accuracies with which a data field matches its expected value. The tables that follow this page show each database field’s:

- Field – field name
- Format – data type and number of characters of field
- Expected Value – meaning of value assigned to field
- Source – when in process field value obtained
- Validation – how field value obtained
- Expected Accuracy – accuracy with which contents of field match Expected Value

Verifying and continually improving the accuracy of Road Inventory Program data is an ongoing goal of the Federal Highway Administration and the National Park Service. Field testing and post-collection analysis of ARAN (Automatic Road ANalyzer) -collected data will continue in Cycle 4. Data quality is expected to improve as the FHWA – NPS Road Inventory Program continues to operate, due to the fact that future data collection cycles will consist in large part of data updates. Also, technological improvements are expected to render the data increasingly consistent with actual roadway conditions as data collection cycles progress.

Specific Caveats

- MUTCD based on contents & colors of sign, not on size
- Database records that show a Portland Cement Concrete (CO) surface type sometimes include distress index values that seem to show a perfect roadway. Condition assessments on concrete pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are not accurate. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route’s primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS_Tenth table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS_20 and PMS_Mile tables simply exclude all opposite routes.

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a “station”.
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video and mileage. Signs and Mile Markers are the only features collected using the opposite-direction video with mileage location referenced to the primary direction lane of the roadway.
- Route_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park_ROAD_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park_PKG_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

Key to Notes in Tables

(1): Note that only one value fits in field, so even if this value varies throughout the route, only predominant value is recorded here.

(2): Shoulder width is measured at route start and every half-mile along the route in the primary direction. Width is the entire width of the drivable shoulder, regardless of the presence or absence of pavement, from the fog line to the shoulder hinge point, or if no fog line exists, from the edge of pavement to the hinge point. Identification of shoulder hinge point can be problematic using video analysis. Some paved ditches may be mistakenly recorded as shoulders where the shoulder hinge point and change in slope are not easily distinguished from the video.

(3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.

(4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle’s mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle’s mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors’ key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor.

(5): Condition assessments on concrete (PCC) pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.

(6): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolutions. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

MASTER Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	100%, Referenced to other tables (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100%, Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100%, Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
6	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100%, Referenced to other tables. 100 characters fit in field
7	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%,
9	BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
10	END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
12	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
13	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
14	NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
15	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	100%, Referenced to other tables (1)
16	COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input / FHWA Determination	Untested
17	COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
18	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
19	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%

20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
21	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
22	BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
23	END_MP	999.999 (miles)	Ending MP collected	ARAN Data Collection	Automatic Output	100% (3)

PMS_FEATURE Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	Untested (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
6	FMSS_EQUIP	XXXXXXXX	Facility Management Software System Equipment number	NPS FMSS application	NPS References	Untested
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%
9	MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Video Analysis	<=0.001 mile
10	BEG_MP	999.999 (miles)	Feature Beginning location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
11	END_MP	999.999 (miles)	Feature Ending location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
12	FEATURE_LENGTH	999.99 (Feet)	Linear Feature Length	Contractor Post-processing	Database Processing	100%
13	EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Analysis	Untested
14	EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Analysis	Untested
15	FEATURE_TYPE	(Text)	Feature designation: LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
16	EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
18	CONDITION	“N/A”	Sign condition. N/A. Not to be populated	Contractor Post-processing	Video Analysis	Values inaccurate, defaulted to “N/A”
19	COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
20	OFFSET	“N/A”	Offset from Road Edge. N/A. Not to be populated	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to “N/A”

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
21	SIDE	(Text)	Side of route relative to lane driven	Contractor Post-processing	Video Analysis	95%
22	STR_NUMBER	(Text)	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
23	BARR_MAT	(Text)	Barrier Material Type	Contractor Post-processing	Video Analysis	Untested
24	BARR_TYPE	(Text)	Barrier Type	Contractor Post-processing	Video Analysis	Untested
25	BARR_POST_MAT	(Text)	Barrier Post Materials	Contractor Post-processing	Video Analysis	Untested
26	BARR_BEG_TERM	(Text)	Barrier Approach Treatment	Contractor Post-processing	Video Analysis	Untested
27	BARR_END_TERM	(Text)	Barrier End Treatment	Contractor Post-processing	Video Analysis	Untested
28	CURB_MAT	(Text)	Curb Material Type	Contractor Post-processing	Video Analysis	Untested
29	PAVED_DITCH_MAT	(Text)	Paved Ditch Material Type	Contractor Post-processing	Video Analysis	Untested (2)
30	GATE_MAT	(Text)	Gate Material Type	Contractor Post-processing	Video Analysis	Untested
31	GATE_STYLE	(Text)	Gate Style	Contractor Post-processing	Video Analysis	Untested
32	BEG_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
33	BEG_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
34	BEG_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
35	BEG_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
36	END_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
37	END_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
38	END_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
39	END_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
40	DATUM	(Text)	LL_WGS84_DD	Contractor Post-processing	Database Processing	100%
41	VIDEO	<Park>C04VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
42	IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
43	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
44	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
45	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
46	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
47	VISI_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
48	VISI_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
49	IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
50	MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

List of Roadway Features						
#	EVENT	EVENT_CODE	FEATURE_TYPE	EVENT_DESC	STRUCTURE #	COLLECTED BY
1	BRIDGE	BRDG	LINEAR	BRIDGE	ALWAYS	ARAN
2	CATTLE GUARD	CGD	POINT	CATTLE GUARD	-	VIDEO RATING
3	CONSTRUCTION	CNST	LINEAR	CONSTRUCTION WORK ZONE	-	ARAN
4	CULVERT	CUL	POINT	CULVERT	SOMETIMES	ARAN
5	CURB	CRBL	LINEAR	CURB ON LEFT	-	VIDEO RATING
	""	CRBR	LINEAR	CURB ON RIGHT	-	VIDEO RATING
6	CURB-AND-GUTTER	CAGL	LINEAR	CURB-AND-GUTTER ON LEFT	-	VIDEO RATING
	""	CAGR	LINEAR	CURB-AND-GUTTER ON RIGHT	-	VIDEO RATING
7	DROP INLET	DINL	POINT	DROP INLET ON LEFT	-	ARAN
	""	DINR	POINT	DROP INLET ON RIGHT	-	ARAN
8	GATE	GATE	POINT	GATE	-	VIDEO RATING
9	FIRE HYDRANT	FHDL	POINT	FIRE HYDRANT ON LEFT	-	VIDEO RATING
	""	FHDR	POINT	FIRE HYDRANT ON RIGHT	-	VIDEO RATING
10	GUARD/GUIDE WALL	GGWL	LINEAR	GUARD/GUIDE WALL ON LEFT	-	VIDEO RATING
	""	GGWR	LINEAR	GUARD/GUIDE WALL ON RIGHT	-	VIDEO RATING
11	GUARD/GUIDE RAIL	GGRL	LINEAR	GUARD/GUIDE RAIL ON LEFT	-	VIDEO RATING
	""	GGRR	LINEAR	GUARD/GUIDE RAIL ON RIGHT	-	VIDEO RATING
12	INTERSECTION	INTL	POINT	INTERSECTION ON LEFT	-	ARAN
	""	INTR	POINT	INTERSECTION ON RIGHT	-	ARAN
	""	INTN	POINT	INTERSECTION SIDE N/A	-	ARAN

13	LANE DEVIATION	LADV	LINEAR	LANE DEVIATION	-	ARAN
14	LOW WATER CROSSING	LWCR	LINEAR	LOW WATER CROSSING	SOMETIMES	VIDEO RATING
15	MILE MARKER	MML	POINT	MILE MARKER ON LEFT	-	VIDEO RATING
	""	MMR	POINT	MILE MARKER ON RIGHT	-	VIDEO RATING
16	OVERPASS	OPV	POINT	OVERPASS VEHICULAR	SOMETIMES	ARAN
	""	OPP	POINT	OVERPASS PEDESTRIAN	SOMETIMES	ARAN
	""	OPRX	POINT	OVERPASS RAILROAD CROSSING	SOMETIMES	ARAN
17	PARK BOUNDARY	PRK	POINT	PARK BOUNDARY	-	ARAN
18	PAVED DITCH	PVDL	LINEAR	PAVED DITCH ON LEFT	-	VIDEO RATING
	""	PVDR	LINEAR	PAVED DITCH ON RIGHT	-	VIDEO RATING
19	PULLOUT	PLOL	LINEAR	PULLOUT ON LEFT	-	VIDEO RATING
	""	PLOR	LINEAR	PULLOUT ON RIGHT	-	VIDEO RATING
20	RAILROAD CROSSING	RRX	POINT	RAILROAD CROSSING	-	VIDEO RATING
21	RETAINING WALL	RTWL	LINEAR	RETAINING WALL ON LEFT	-	VIDEO RATING
	""	RTWR	LINEAR	RETAINING WALL ON RIGHT	-	VIDEO RATING
22	ROUTE BEGIN	RBEG	POINT	ROUTE BEGIN	-	ARAN
23	ROUTE END	REND	POINT	ROUTE END	-	ARAN
24	SIGN	REGU, WARN, GUID, UNKN	POINT	DOCUMENT CONTENTS OF SIGN. (WHAT THE SIGN SAYS) FOR GRAPHICS ONLY SIGNS POPULATED WITH ("GRAPHIC SIGN, NO TEXT") FOR UNREADABLE TEXT POPULATED WITH ("UNABLE TO READ FROM VIDEO")	-	VIDEO RATING
25	STATE BOUNDARY	STB	POINT	STATE BOUNDARY	-	ARAN
26	TRAFFIC LIGHT	TRF	POINT	TRAFFIC LIGHT	-	VIDEO RATING
27	TUNNEL	TUN	LINEAR	TUNNEL	ALWAYS	ARAN

PMS_20, PMS_MILE, & PMS_TENTH Tables Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	100%
8	BEG_MP	999.999 (miles)	MP at start of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_MP	999.999 (miles)	MP at end of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
10	INT_LENGTH	999.9 (ft)	Length of road interval as aggregated for data table	Contractor Post-processing	Database Processing	100%
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100% (3)
12	NO_LANES	99	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
13	LANE_NO	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	WiseCrax (crack detection software) analysis width	Contractor Post-processing	Automatic Output	Untested
15	LANE_WIDTH	99.9 (ft)	Width of lane	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
16	PAVE_WIDTH	99.9 (ft)	Full pavement width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
17	SHLD_WIDTH_L	99.9 (ft)	Left shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
18	SHLD_WIDTH_R	99.9 (ft)	Right shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
19	SHLD_COND_L	N/A	N/A. Intended to be Left shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
20	SHLD_COND_R	N/A	N/A. Intended to be Right shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
21	DRAIN_COND_L	N/A	N/A. Intended to be Left drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
22	DRAIN_COND_R	N/A	N/A. Intended to be Right drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
23	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
24	PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
25	RCI	999	Roughness Condition Index; -1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation
26	SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
27	IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
28	IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
29	IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
30	IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
31	IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
32	RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (5)
33	RUT_AVG	99.99 (inches)	Average rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
34	RUT_MAX	99.99 (inches)	Maximum rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
35	RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (5)
36	RUT_LOW	999 (%)	Percent of low severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
37	RUT_MED	999 (%)	Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
38	RUT_HI	999 (%)	Percent of high severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
39	XFALL	999.9 (% slope)	Cross fall at start of road interval	ARAN Data Collection	Automatic Output	Untested
40	GRADE	999.9 (% slope)	Grade at start of road interval	ARAN Data Collection	Automatic Output	Untested
41	AC_INDEX	999	Alligator cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
42	AC_LOW	999.9999 (%)	Percent of WiseCrax measured lane area with low-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
43	AC_MED	999.9999 (%)	Percent of WiseCrax measured lane area with medium-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
44	AC_HI	999.9999 (%)	Percent of WiseCrax measured lane area with high-severity alligator	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			cracking			
45	LC_INDEX	999	Longitudinal cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
46	LC_LOW	999.99 (%)	Low-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
47	LC_MED	999.99 (%)	Medium-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
48	LC_HI	999.99 (%)	High-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
49	TC_INDEX	999	Transverse cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
50	TC_LOW	999.99 (cracks)	Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
51	TC_MED	999.99 (cracks)	Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
52	TC_HI	999.99 (cracks)	Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
53	PATCH_INDEX	999	Patching index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
54	PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
55	GPS_LAT	999.999999	Latitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
56	GPS_LON	-999.999999	Longitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
57	GPS_ELEV	99999.9	Elevation	ARAN Data Collection	Automatic Output	Untested
58	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	Untested
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	100%
60	VIDEO	<Park>C04VID<#>	Removable USB video hard	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			drive number			
61	IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
62	SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
63	BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
64	CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
65	LANEDEV_FLAG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
66	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
67	NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
68	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
69	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
70	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
71	CONTRACTOR1	(Numeric)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
72	CONTRACTOR2	(Numeric)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
73	CONTRACTOR3	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
74	CONTRACTOR4	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

ROUTE_GPS table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100% Referenced to other tables . 100 characters fit in field
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
9	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
10	MP	999.999	Mile Post (at 0.01 record)	ARAN Data Collection, Contractor Post-processing	Survey Crew Input/GPS Processing	Untested (3)
11	GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
12	GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
13	GPS_ELEV	99999.9	Elevation	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
14	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
15	XFALL	999.9	Cross Fall: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
16	GRADE	999.9	Grade: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	Untested
19	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	Untested
20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	Untested

21	DATE	MM/DD/YY	ARAN Data Collection Date	ARAN Data Collection	Automatic Output	Untested
22	COMMENT	(Text)	Source of Any Digitized Data	ARAN Data Collection	Database Processing	Untested
23	CONTRACTOR1	(Numeric)	Visi_from	Contractor Post-processing	Database Processing	Untested
24	CONTRACTOR2	(Numeric)	Visi_to	Contractor Post-processing	Database Processing	Untested
25	CONTRACTOR3	(Text)	Visi_dir (ipdated to chapter 1)	Contractor Post-processing	Database Processing	Untested
26	CONTRACTOR4	(Text)	Comments/exceptions	Contractor Post-processing	Database Processing	Untested

FHWA "Route ID Program" Database

Database Name: ROUTEINFO.mdb

Table Name: ROUTE_ID

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	ROUTE_IDENT	XXXX-9999XXX	The Park's Alpha Code + "-" + RTE_NO (below).	Route ID Meeting	Automatic Output	100%, Reference source for all tables
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100%, Reference source for all tables
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100%, Reference source for all tables
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	100%, Reference source for all tables
7	RTE_NO	9999XXX	Route Number	Route ID Meeting	Park Input	100%, Reference source for all tables
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	100%, Reference source for all tables
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
11	INSP_DATE	MM/DD/YYYY	Collection Date	ARAN Data Collection	FHWA Determination	100%, Reference source for all tables
12	FUNCT_CLASS	XX	Functional Class	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
14	STATE2	XX	Additional State Park Route traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
15	FMSS_NO	(Text)	NPS's Facility Management Software System (FMSS) Asset number	Route ID Meeting	Park Input	100%, Reference source for all tables
16	FMSS_SUR_EQP	(Text)	FMSS Surface Equipment Number	Route ID Meeting	Park Input	Untested
17	M_DISTRICT	(Text)	Park Maintenance District Route resides in	Route ID Meeting	Park Input	100%, Reference source for all tables (1)
18	TOPOGRAPHY	(Text)	Predominate Terrain condition for	Route ID Meeting	FHWA Determination	100%, Reference source for all

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN)			tables (1)
19	POSTED_SPEED	99	Posted Speed Limit for Route (Value is Predominate Speed Limit along Route)	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
20	ARAN_ROUTE	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
21	PARKING_AREA	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
22	CONCESSION	XXX	Yes/No	Route ID Meeting	Park Input	100%, Reference source for all tables
23	PAVED_MI	999.999	Paved mileage (to the nearest 0.001)	ARAN Data Collection	Automatic Output	100%, Reference source for all tables
24	UNPAVED_MI	999.999	Unpaved mileage (to the nearest 0.001)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
25	RTE_LENGTH	999.999	Official Route Length	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
26	SURF_TYPE	XX	Surface type (PAVED: AS (asphalt, includes composite), CO (concrete), BR (brick/pavers), CB (cobblestone), OT (other))	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables (1)
27	UNPAVED	XXXX	Unpaved Route (Yes/No/Both)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
28	UNPAVED_CAT	XXX	Unpaved Road Category	Route ID Meeting	Automatic Output	Untested
29	CURB	(Text)	Parking Area with Curb around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
30	CURB_GUTTER	(Text)	Parking Area with Curb and Gutter around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
31	ADJ_ROUTE	9999XXX	Route number	Route ID Meeting	Automatic Output	100%, Reference source for all tables
32	USER_ACCESS	(Text)	Access Designation for Parking	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
33	PHOTO_NO	(Text)	Photo or Image	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables
34	PLOT_SIZE	(Text)	Unpaved Parking Area Size	Route ID Meeting	Automatic Output	100%, Reference source for all tables
35	SQ_FEET	999.999	Route Square Footage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
36	M_RATING	(Text)	Manual Rating	Route ID Meeting	Automatic Output	100%, Reference source for all tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
37	SQ_YARDS	999.999	Route Square Yardage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
38	LANES	XX	Route travel lanes	Route ID Meeting	Automatic Output	Untested (1)
39	PAVE_WIDTH	999.99	Pavement Width (Weighted average)	RIP Post-processing	Automatic Output	100% Referenced to other tables
40	LANE_MILES	999.999	Route Equivalent Lane Miles	RIP Post-processing	Automatic Output	100%, Reference source for all tables
41	AREA_MAP	(Text)	1 or 2-digit number	Contractor Post-processing	FHWA/Contractor Input	100%, Reference source for all tables
42	REMARKS	(Memo)	General remarks on Park route and data collection operations.	Contractor Post-processing	FHWA/Contractor Input	Untested
43	SUMMARY_REC	XXXX-9999XXX	ROUTE_IDENT of summary Park Asset	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
44	NPS_REGION	(Text)	Park Region	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
45	DIVISION	(Text)	FHWA Division	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
46	PCR	999.99	Route Weighted Average PCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	SCR	999.99	Route Weighted Average SCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	AADT	999	Average Adjusted Daily Traffic	RIP	Automatic Output	Untested
49	SADT	999	Seasonal Adjusted Daily Traffic	RIP	Automatic Output	Untested
50	ADT_DATE	MM/DD/YYYY	Traffic Date of Collection	RIP	Automatic Output	Untested
51	BEG_LAT	999.999999	Route Begin GPS Latitude Coordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
52	BEG_LON	-999.999999	Route Begin GPS Longitude Coordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
53	BEG_ELEV	99999.9	Route Begin Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
54	BEG_MODE	XXX	Route Begin GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
55	END_LAT	999.999999	Route End GPS Latitude Coordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
56	END_LON	-999.999999	Route End GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
57	END_ELEV	99999.9	Route End Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
58	END_MODE	XXX	Route End GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Automatic Output	100% Referenced to other tables
60	CHILD_ROUTE	XXX	Yes/No	Route ID Meeting	Automatic Output	100% Reference source for all tables
61	CULVERT_CNT	999	Route Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	DROP_INLET_CNT	999	Route Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	GATE_CNT	999	Route Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
64	TRAFLIGHT_CNT	999	Route Traffic Light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
65	SIGN_CNT	999	Route Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
66	LWCROSS_CNT	999	Route Low Water Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
67	BRIDGE_CNT	999	Route Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
68	TUNNEL_CNT	999	Route Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
69	PULLOUT_CNT	999	Route Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
70	INTERSEC_CNT	999	Route Intersection Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
71	ST_BNDRY_CNT	999	Route State Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
72	PRK_BNDRY_CNT	999	Route Park Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
73	RETWALL_CNT	999	Route Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
74	RR_CROSS_CNT	999	Route RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
75	CATTLE_CNT	999	Route Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
76	OVHDSIGN_CNT	999	Route Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
77	MILEMARK_CNT	999	Route Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
78	FHYD_CNT	999	Route Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
79	OVERPASS_CNT	999	Route Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
80	CABLE_TLNG	9999.999 (ft)	Route Total Length Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
81	GDRAIL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
82	GDWALL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
83	TEMP_BARR_TLNG	9999.999 (ft)	Route Total Length Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
84	BOLLARD_TLNG	9999.999 (ft)	Route Total Length Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
85	BARRIER_TLNG	9999.999 (ft)	Route Total Length All Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
86	CURB_TLNG	9999.999 (ft)	Route Total Length Curbing (excludes Parking Areas)	RIP Post-processing	Automatic Output	100% Referenced to other tables
87	LWCROSS_TLNG	9999.999 (ft)	Route Total Length Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
88	PAVDITCH_TLNG	9999.999 (ft)	Route Total Length Paved Ditch	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
89	TURNOUT_TLNG	9999.999 (ft)	Route Total Length Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
90	LANE_NUMBER	99	Number of Lane Tested	RIP Post-processing	Automatic Output	100% Referenced to other tables
91	LOCAL_FACTOR	9.9999	Park Location Factor	NPS Partner	Automatic Output	100% Reference source for all tables
92	E_ZONE	XXX	Route Environmental Zone	FHWA HPMA	Automatic Output	100% Reference source for all tables
93	PAVEMENT_DM	\$99,999,999.99	Pavement Deferred Maintenance	FHWA HPMA	Automatic Output	100% Reference source for all tables
94	CRV	\$99,999,999.99	Current Replacement Value	RIP Post-processing	Automatic Output	100% Reference source for all tables

Database Name: ROUTEINFO.mdb

Table Name: PARK_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	100% Referenced to other tables
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100% Referenced to other tables
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	100% Referenced to other tables
6	INSP_DATE	MM/DD/YYYY	Date that data was collected in the park (completion date).	Route ID Meeting and ARAN Data Collection	FHWA Determination	100% Referenced to other tables
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	100% Referenced to other tables
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	100% Referenced to other tables
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
17	T_PRK_UNPAVEDSQFT	999.999	Total Park Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
18	T_CPRK_PAVEDSQFT	999.999	Total Park Concession Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
19	T_CPRK_UNPAVEDSQFT	999.999	Total Park Concession Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
21	T_PARKING_LMILES	999.999	Total Park Parking Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
22	T_MRR_SQFT	999.999	Total Park Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
23	T_CMRR_SQFT	999.999	Total Park Concession Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
24	T_MRR_LMILES	999.999	Total Park Manually Rated Road Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						tables
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
44	T_OVERPASS_CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
46	T_GDRAIL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	T_GDWALL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	100% Referenced to other tables
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
53	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
56	PARK_RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
59	PARK_AC_INDEX	99.99	Overall Park Alligator Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
60	PARK_LC_INDEX	99.99	Overall Park Longitudinal Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
61	PARK_TC_INDEX	99.99	Overall Park Transverse Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	PARK_PATCH_INDEX	99.99	Overall Park Patching Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	PARK_CONC_PCR	99.99	Overall Park Concession PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables

Business Practices for Route Numbering and Roadway Asset Identification

Introduction and Background:

Beginning in November 2006, inventory and condition information gathered by the Federal Highway Administration (FHWA) has been stored in FMSS to enable NPS to report Deferred Maintenance (DM) and Current Replacement Value (CRV) for NPS paved roads, paved parking areas, bridges, and tunnels. The NPS Roads Working Group (RWG) has been tasked with developing and implementing the procedures necessary to transfer DM and CRV from FHWA's databases to NPS' Facility Management Software System (FMSS).

Current business practices for roadway definition in national parks involve face-to-face meetings between FHWA personnel and individual park staff known as "Route ID" meetings. These meetings have been ongoing for several years and have been performed within the context of the Road Inventory Program (RIP) executed mainly by FHWA. The primary focus of these meetings has been on defining roadway static information such as route names, numbers, functional class, etc. The FHWA personnel are the primary individuals responsible for implementing the RIP and the route ID meetings are an integral and fundamental part of that process. The RIP process provides route numbers for each individual road and parking area in each park. After the route ID meetings establish a given park's roadway asset base, various types of condition and inventory data are collected either manually or with a data collection van that drives each individual road with an individual route number.

The FMSS requires asset numbers as unique identifiers for all asset types including roadways. **The current practice is that all roadways that are assigned a route number at route ID, also are defined as assets and therefore also receive an FMSS asset number** (Route names and functional classes are also collaboratively assigned during the face-to-face route ID meetings). This practice began midway through the third RIP data collection cycle (ending in 2003) and was further reinforced during an asset alignment process conducted in the summer of 2006. The alignment process ensured that each route number in RIP and each asset number in FMSS were matched to the correct road and parking area.

Issue Statement:

As a result of various pre-existing business practices associated with the RIP, which predates FMSS by several years, route numbers are assigned for routes that are often very small. In tandem with the current business practice that all routes with route numbers are considered assets, this has caused a proliferation of asset numbers within FMSS. Over the past year, the RWG has learned that this business practice has significantly increased time and resources that parks must dedicate to administering FMSS data entry and management. This additional work effort is due to the fact that tying FMSS asset records to the more detailed, granular RIP route numbers has generated numerous new assets that require additional database and work order management. This has led to a situation where assets are not being defined the way they are managed.

The following proposed practices seek to create an asset definition process that is dictated by to how road assets are managed at the park level, not according to the pre-existing practices used in RIP for collecting detailed road information. RIP practices assign route numbers mainly based on how data are collected and driven with a data collection device. These procedures will disassociate the driving of roads with the data collection van from the process of assigning them asset status. **The end goal is to only assign asset numbers based on how parks manage their facilities within guidelines set up within FMSS and herein.** Driving the road with the data collection van allows for the collection of higher quality data as well as the ability to view road segments with video viewing software (Visidata). By de-linking driving the roads with the assignment of “asset status”, we are able to get the best quality data without the proliferation of assets that has serious negative ramifications for managing roadways in parks using asset management tools.

Proposed Actions:

1. Make a distinction within the route number field in the RIP database between those route numbers that represent assets, those that are subcomponents of assets and those that are groups of sub-components. The route number field in the RIP database will be expanded from 6 to 7 characters. The additional character will denote the asset status of the route in question. Combined routes will be designated with a double “zz”, while subcomponents will be designated with one “z”. Whenever possible, a combined route should use the lowest route number to be combined as the combined route number.
2. Only show assets, whether a group of subcomponents or a single component, on the Route ID report. Assets that are composed of subcomponents will have “zz” in the route number. Individual routes will have no additional characters in the route number. Subcomponents (designated in RIP with a “z”) will not be listed on the route ID report. Only assign asset numbers to those routes listed on the route ID report.
3. Provide a separate reporting function (other than the Route ID report) to identify and display information for route numbers not representing assets. Specific reporting requirements and format TBD.
4. Add a new field to the RIP database to indicate the “asset status” of a route number. The flag will have three possible values:
 - a. Asset with no subcomponents.
 - b. Asset with subcomponents.
 - c. Non-asset (i.e. subcomponent).

Both a change in the route number and a new “asset ID” field in the RIP database are recommended. It is easier to perform queries and other database manipulations using a separate field instead of a character within the route number field. The character in the route number field allows for rapid identification of the asset status of a road without having to access the database as a whole. Even though non-asset routes will not be included in the route ID report (the primary location for parks to view road information in RIP), there are many other reports as well as the Visidata application where the route number is

displayed. In these cases, the character in the route number will clearly identify the asset status of the roadway.

5. Focus asset definition practices on NPS asset management needs. Create roadway assets based on how parks manage these assets within the following guidelines:
 - a. Individual road segments (asset subcomponents) may be combined into a single asset. **Note that all the attributes of individual subcomponents (paved area, equipment, work orders, etc) will be included in the combined asset.**
 - b. In general, combination should be used in complex circulatory environments such as campground areas, housing and other administrative areas, maintenance areas, etc.
 - c. Public and non-public segments may not be combined.
 - d. Segments with differing functional classes may not be combined.
 - e. Discrete parking areas may be combined into a single asset where they service the same facility or resource and are within walking distance of each other.
 - f. Parking areas and roads may not be combined. This includes short road segments that may be near or adjacent to parking areas. See 5h below for exceptions to this.
 - g. Where the primary purpose of a road is to provide access to a parking area, and that road segment is approximately 0.25 miles in length or shorter, the access road should be considered part of the parking area (Note that this is an existing RIP business practice).
 - h. Particularly long routes may be divided into multiple assets based on how a park manages the roadway network. This should not be confused with the use of sub-components listed in 5a.
 - i. Roads that are actively managed by concession operations may not be combined with those managed by the NPS.

Discussion:

The first four items listed above are actions required by FHWA RIP to allow for the adoption of the practices shown in 5a-i. The following will provide additional direction and examples for guidelines listed.

Individual road segments (asset subcomponents) may be combined into a single asset. Where previous route ID practices have generated more assets (routes) than are practical from an asset management standpoint, small, discrete road lengths may be designated as asset subcomponents and then combined into a larger single asset. A subcomponent is NOT an FMSS term. Subcomponents will be used in RIP to indicate which routes are small, drivable individual road segments and which routes may include these segments. Once a piece of road is designated a subcomponent of another route, it will no longer have any individual identity in FMSS. Only those routes listed on the RIP Route ID report will have asset numbers in FMSS. As stated in business rule 2 above, subcomponents will not be listed on the route ID. The quantity information (length, area) will be included into the larger route of which they are a part. See Figures 1 and 2 for an example of how existing assets may be combined using subcomponents. Note that

subcomponents will have an identity in the RIP database and, if driven by RIP team, may be referenced in RIP reports, Visidata, or other RIP documentation.

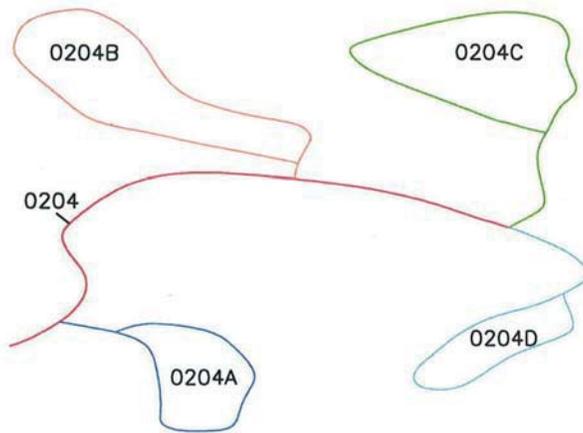


Figure 1: Campground with five routes and five assets

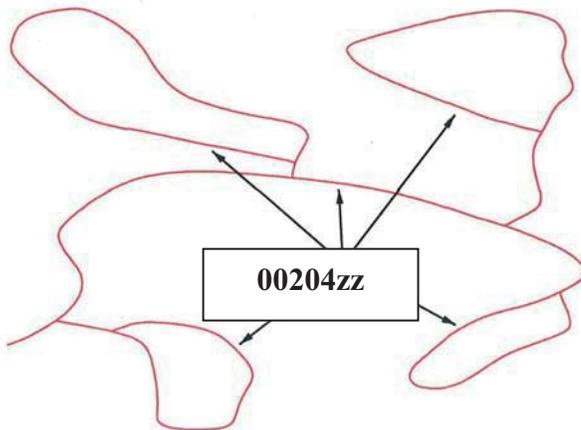


Figure 2: Campground with all loops combined into one route and one asset. This has eliminated four assets.

In general, combination should occur in complex circulatory environments such as campground areas, housing and other administrative areas, maintenance areas, etc.

Typically these complex situations are where too many assets have been used to define roadways. Combining simple “point A to point B” roads that are clearly defined and provide access to different facilities or locations may not be done.

Public and non-public segments may not be combined. Roads that are posted as closed to the public or are intended as administrative access only (maintenance areas, housing areas, fire roads, etc) can not be combined with roads open to the public.

Segments with differing functional classes may not be combined. The roadway functional class is found on the Route ID report. Functional class indicates the type of circulatory function a given road provides. Functional class is used in a variety of applications (engineering, safety, funding) so it is important to maintain the correct functional class attributes of individual roads/assets. There are some cases where functional class was erroneously assigned in prior Route ID meetings such as where campground loops have a different functional class than the campground road. Functional classes of individual roads may be modified to correct discrepancies. The functional class definitions may not be modified.

Discrete parking areas may be combined into a single asset where they service the same facility or resource and are within walking distance of each other. These combined areas should be maintained as one asset. There are many instances where small (5-10 space), discrete parking areas have been separated into individual assets even though they provide parking for the same area or facility. These may be combined into a single asset. Figures 3 and 4 shows examples of combining parking areas.

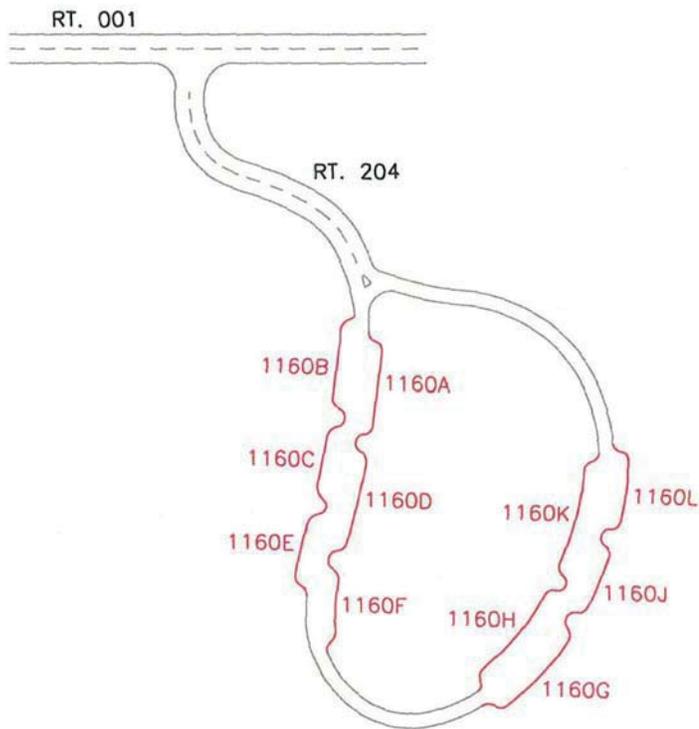


Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets (one 1100 asset and 11 1300 assets).

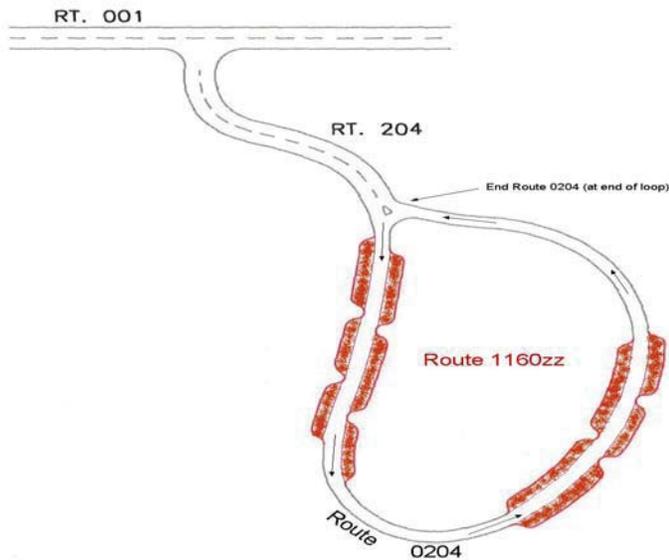


Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

Parking areas and roads may not be combined. Parking areas and roads are tracked as separate asset types (1300 vs. 1100) in FMSS and as such should not be combined except in situations described by 5g. In Figure 5, Route 207 is a spur road from the main route running through parking area 1102. Since the spur road continues through and beyond the parking area, it will remain a separate route.

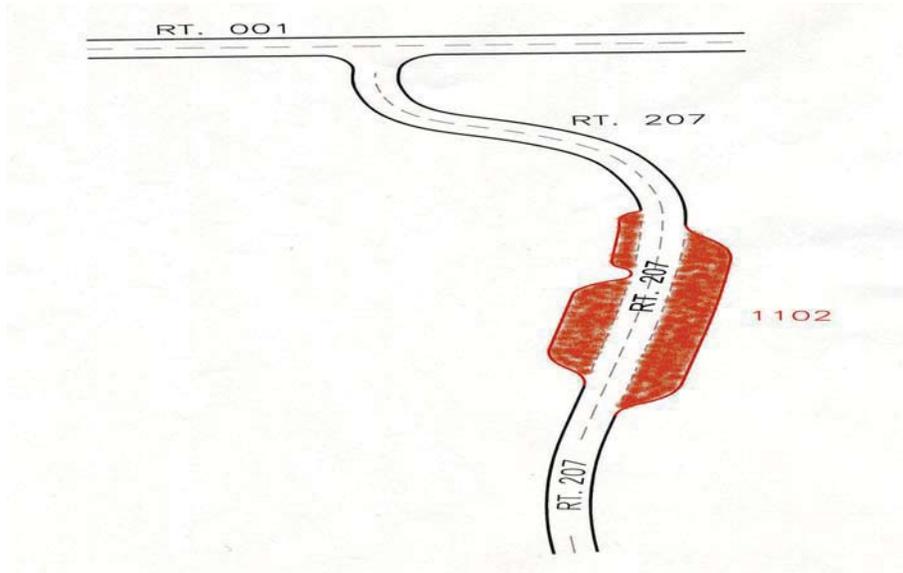


Figure 5: Parking with access route 207 running through and continuing beyond parking 1102. This access route cannot be considered a part of the parking area and two routes and two assets continue to exist.

Where the primary purpose of a road is to provide access to a parking area, and that road segment is less than 0.25 miles in length, the access road should be considered part of the parking area. See Figures 8. Where a road continues on past a parking area to another facility or destination, even if it is less than 0.25 miles to the initial parking area, the road and parking area may not be combined.

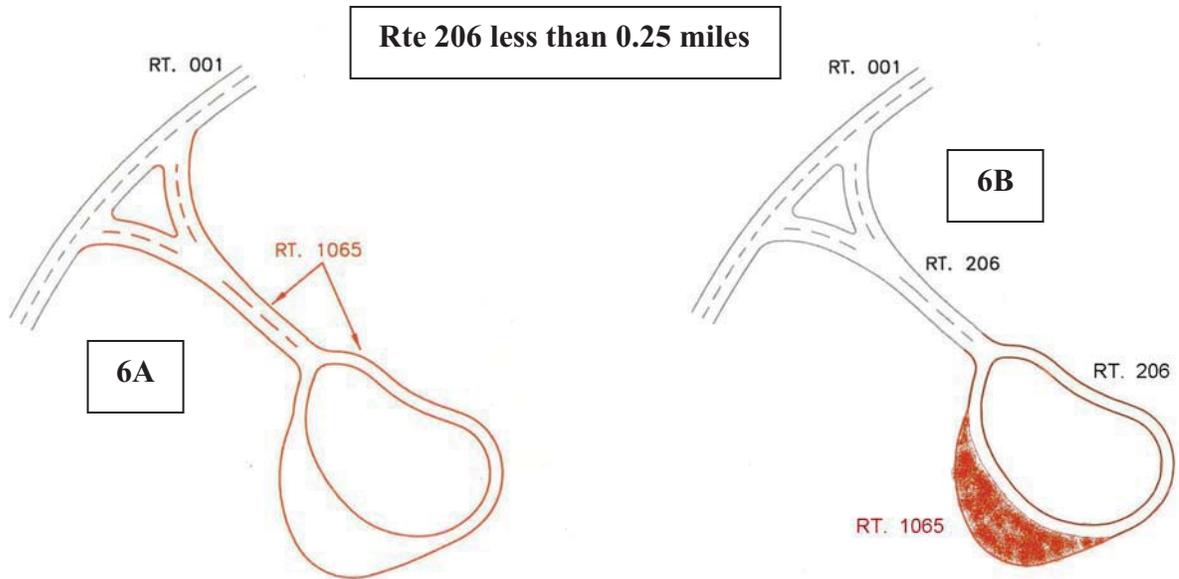


Figure 6: Since the access route is less than .25 miles in length and the only use of the access is to the parking, one route for both the access and the parking area can be established.

Particularly long routes may be divided into multiple assets based on how a park manages the roadway network. This should not be confused with the use of sub-components listed in 5a. Routes like the Blue Ridge Parkway or the Yellowstone Grand Loop may not lend themselves to management as a single asset by virtue of their length. Often management districts are created for sections of these routes and maintenance activities occur primarily within these districts. Parks may break routes up into separate assets during the Route ID process if the road is managed as discrete sections. This should only be done for very long roads.

The following example illustrates a complex road system and how the proposed business practice and several of the guidelines could be applied to create fewer assets that are consistent with local management.

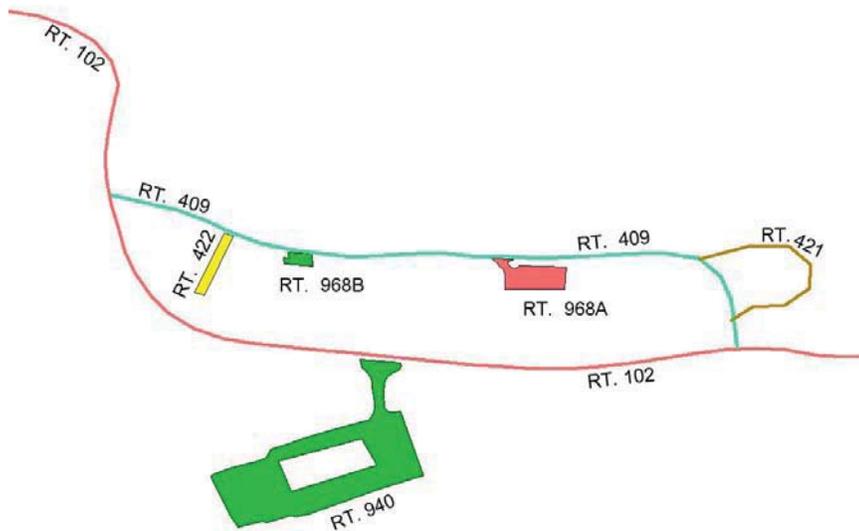


Figure 7 – Current Housing area access configuration. Route 409 is less than 0.25 miles long.

The area serviced by Routes 409, 421, 422, 968A, and 968B is all employee housing. Route 940 provides access to visitor services and not to the housing area. Routes may be combined to create assets that reflect local management. Routes 409, 421, and 422 are all the same functional class, provide access to one type of activity (housing) and are all posted as non-public. These routes may be combined. They should not be combined with any parking areas even though they are all less than 0.25 miles long. This is because their main function is not to provide access to parking. Routes 968A and B provide parking for access to the same facility (housing). Even though these discrete areas may provide parking to different housing units, it's reasonable to manage them as a single asset. They may also be combined.

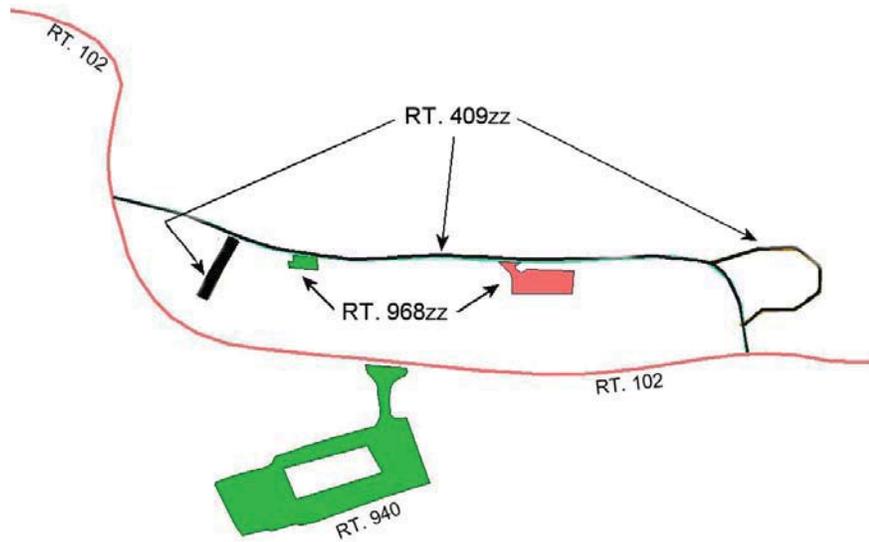


Figure 8 – Combined housing area access configuration – Parking and road assets combined to eliminate 3 assets.