

The Road Inventory of Greenbelt Park GREE – 3240 Cycle 4







Prepared By: Federal Highway Administration Road Inventory Program Cycle 4



Greenbelt Park in Maryland





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Greenbelt Park



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

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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

FHWA/EFLHD 21400 Ridgetop Circle Sterling, VA 20166 (703) 404-6371 FHWA/CFLHD 12300 West Dakota Ave. Lakewood, CO 80228 (720) 963-3560

Greenbelt Park



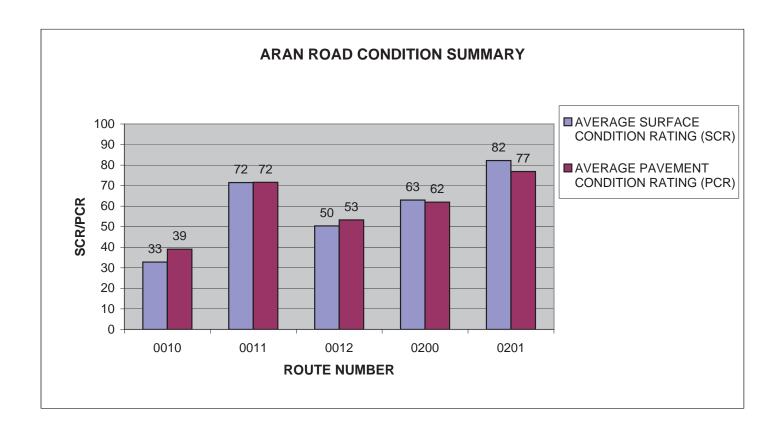
Section 2
Park Summary Information

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

	Pavement Condition Rating (PCR)											
	Poor (<=60)	Fair (6	1-84)	Good ((85-94)	Excellent	TOTAL				
F.C.	MILES	%	MILES	%	MILES	%	MILES	%	MILES			
1	1.01	20.45%	1.34	27.13%	0.42	8.50%	0.20	4.05%	2.97			
2												
3	0.36	7.29%	1.05	21.26%	0.33	6.68%	0.19	3.85%	1.93			
4												
5												
6	0.02	0.40%	0.02	0.40%					0.04			
7												
8												
Totals	1.39	28.14%	2.41	48.78%	0.75	15.18%	0.39	7.89%	4.94			

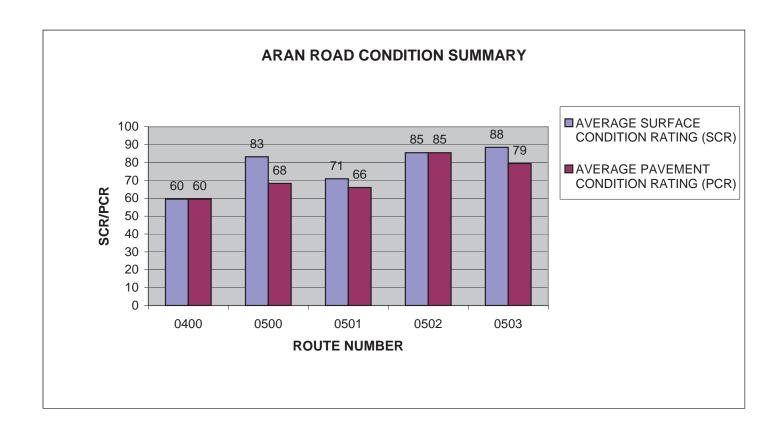
GREE: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME		ROUTE LENGTH		AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0010	MAIN ENTRANCE ROAD	1	0.15	ASPHALT	33	39
0011	PARK CENTRAL ROAD	1	2.30	ASPHALT	72	72
0012	CAMPGROUND ACCESS	1	0.52	ASPHALT	50	53
0200	SWEETGUM PICNIC LOOP	3	0.21	ASPHALT	63	62
0201	LAUREL PICNIC AREA	3	0.27	ASPHALT	82	77



GREE: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH		AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0400	MAINTENANCE AREA ACCESS	6	0.04	ASPHALT	60	60
0500	GREENBELT CAMPGROUND LOOP A	3	0.29	ASPHALT	83	68
0501	GREENBELT CAMPGROUND LOOP B	3	0.47	ASPHALT	71	66
0502	GREENBELT CAMPGROUND LOOP C	3	0.19	ASPHALT	85	85
0503	GREENBELT CAMPGROUND LOOP D	3	0.5	ASPHALT	88	79



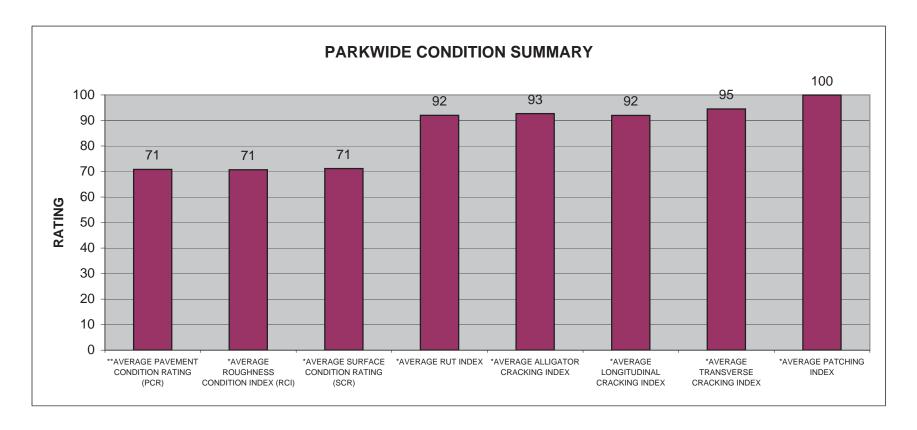
Data Collected 03/20/2009

GREE: PARKWIDE CONDITION SUMMARY

**AVERAGE	*AVERAGE	*AVERAGE		*AVERAGE	*AVERAGE	*AVERAGE	
PAVEMENT	ROUGHNESS	SURFACE		ALLIGATOR	LONGITUDINAL	TRANSVERSE	*AVERAGE
CONDITION	CONDITION	CONDITION	*AVERAGE	CRACKING	CRACKING	CRACKING	PATCHING
RATING (PCR)	INDEX (RCI)	RATING (SCR)	RUT INDEX	INDEX	INDEX	INDEX	INDEX
71	71	71	92	93	92	95	100

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

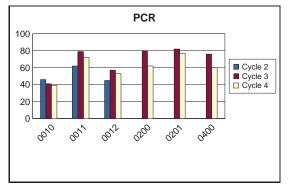
^{*} Index values are based on ARAN-driven roads only.

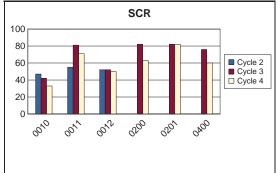


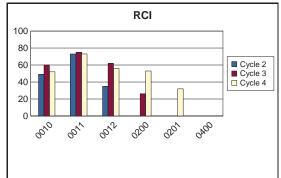
Data Collected 03/20/2009 2-4

GREE CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

				PAVEMENT CONDITION RATING (PCR)			S	SURFACE CONDITION RATING (SCR)			R	OUGI	ON			
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0010	0.15	0.00	0.15	46	41	39	-5%	47	42	33	-21%	49	60	52	-13%	
0011	2.30	0.00	2.30	62	79	72	-9%	55	81	71	-12%	73	75	73	-3%	
0012	0.53	0.00	0.53	45	57	53	-7%	52	52	50	-4%	35	62	56	-10%	
0200	0.21	0.00	0.21	N/A	80	62	-22%	N/A	82	63	-23%	N/A	26	53	+104%	
0201	0.28	0.00	0.28	N/A	82	77	-6%	N/A	82	82	0%	N/A	N/A	32	N/A	No RCI collected in Cycle 3.
0400	0.04	0.00	0.04	N/A	76	60	-21%	N/A	76	60	-21%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 4 or Cycle 3.





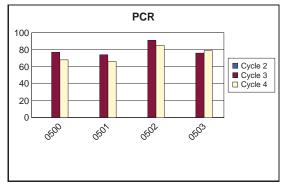


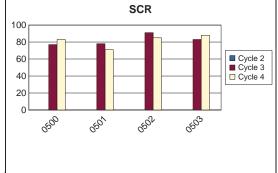
Cycle 4 Data Collected 3/20/2009 - 3/20/2009

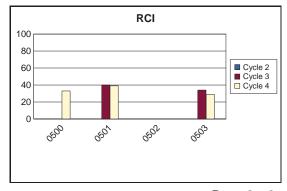
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GREE CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

					MENT RATIN		NDITION CR)	SURFACE CONDITION RATING (SCR)			ROUGHNESS CONDITION INDEX (RCI)				DN	
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0500	0.30	0.00	0.30	N/A	77	68	-12%	N/A	77	83	+8%	N/A	N/A	33	N/A	No RCI collected in Cycle 3.
0501	0.48	0.00	0.48	N/A	74	66	-11%	N/A	78	71	-9%	N/A	40	39	-2%	
0502	0.20	0.00	0.20	N/A	91	85	-7%	N/A	91	85	-7%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 4 or Cycle 3.
0503	0.50	0.00	0.50	N/A	76	79	+4%	N/A	83	88	+6%	N/A	34	29	-15%	







Cycle 4 Data Collected 3/20/2009 - 3/20/2009

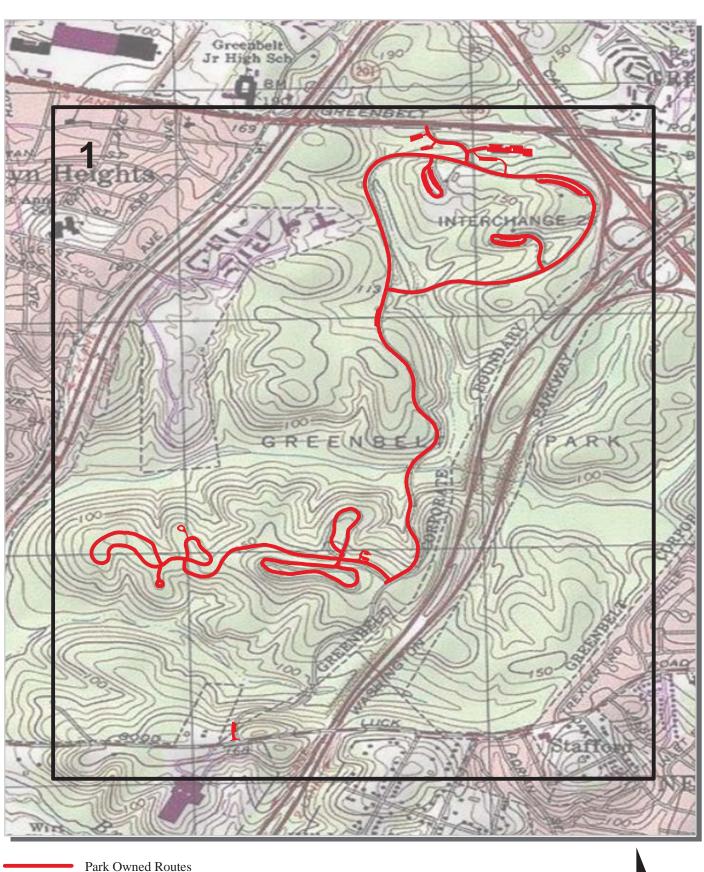
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Greenbelt Park



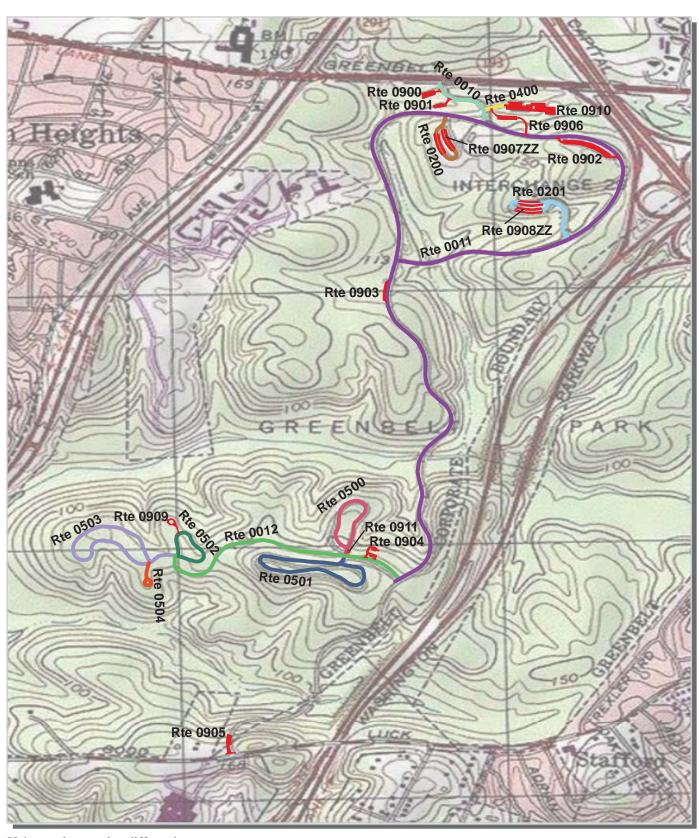
Section 3
Park Route Location / Condition
Maps

Greenbelt Park Route Location Map Key Map



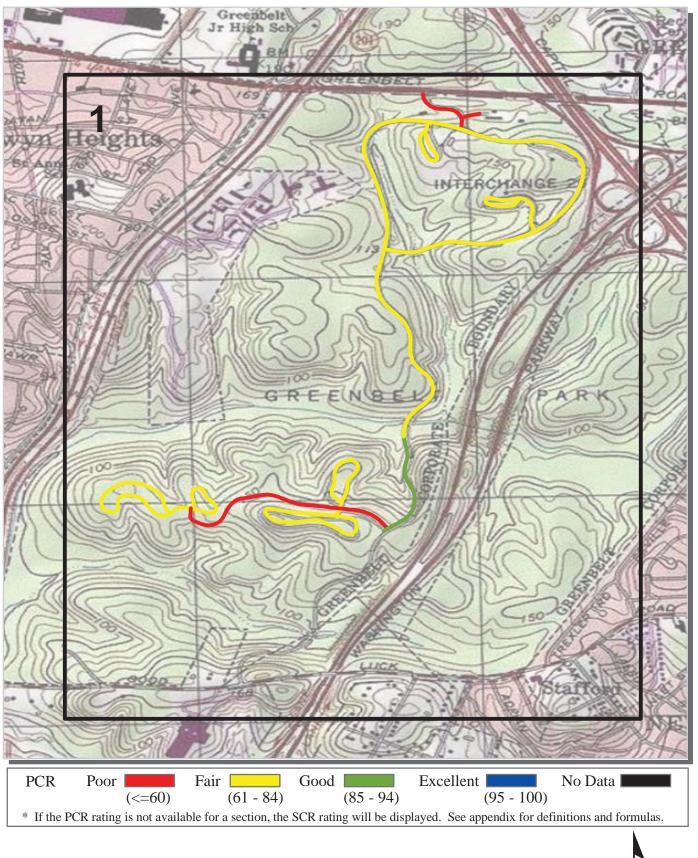
0.25 0.125 0 0.25 Miles

Greenbelt Park Route Location Map Area 1

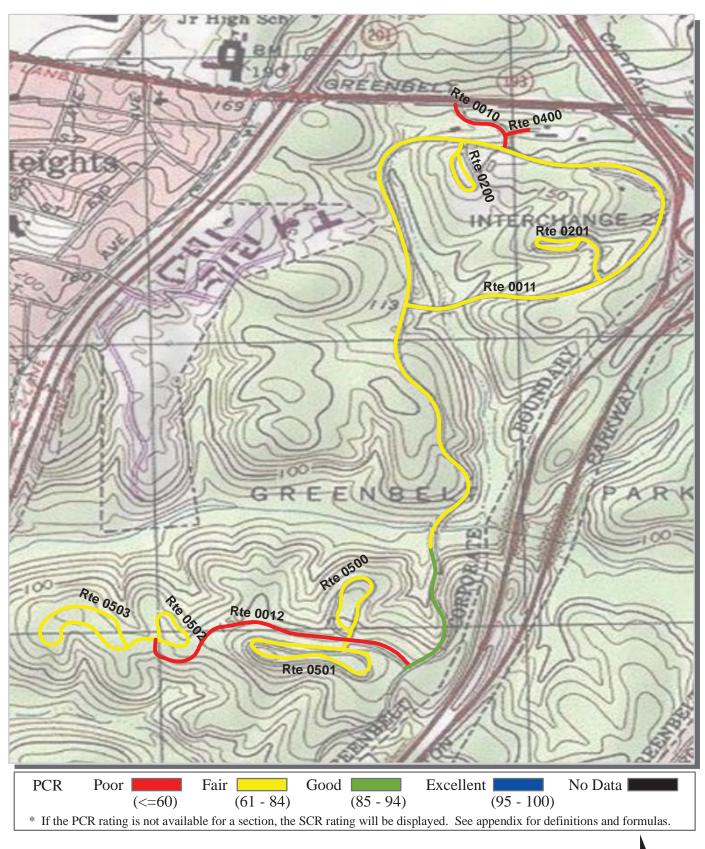


Unique colors used to differentiate routes

Greenbelt Park Route Condition Map PCR - Mile by Mile Key Map



Greenbelt Park Route Condition Map PCR - Mile by Mile Area 1



Greenbelt Park



Section 4
Park Route Inventory

Road Inventory Program 01/15/2010

(Numerical By Route #)

Shading Color Key: Red text denotes approx. mileage White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

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

lue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Page 1 of 4

Grey = Paved Routes, ARAN not Driven

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

=

= Concession Route Flag ON

GREE

GREE	GREENBELT PARK

FROM ROUTE 0011 (PARK TO CENTRAL ROAD) AT MP 1.42 (ON LEFT) FROM ROUTE 0011 (PARK TO	TO ROUTE 0011 (PARK INTRAL ROAD) AT MP 0.87 (ON RIGHT) DEND OF PAVEMENT PAST ROUTE 0012 ON RIGHT INTERSECTION OF ROUTE	N/A N/A	0.150 2.300	Paved Miles	Route Length	Class	Lanes	Rated SQ/FT	Туре	Maps
FROM ROUTE 0011 (PARK TO CENTRAL ROAD) AT MP 1.42 (ON LEFT) FROM ROUTE 0011 (PARK TO CENTRAL ROAD) AT MP 2.29 (ON RIGHT)	ENTRAL ROAD) AT MP 0.87 (ON RIGHT) DEND OF PAVEMENT PAST ROUTE 0012 ON RIGHT INTERSECTION OF ROUTE	·		0.000	0.150	1		0		
CENTRAL ROAD) AT MP 1.42 (ON LEFT) FROM ROUTE 0011 (PARK TO CENTRAL ROAD) AT MP 2.29 (ON RIGHT)	ROUTE 0012 ON RIGHT INTERSECTION OF ROUTE	N/A	2.300			i		0	AS	1
CENTRAL ROAD) AT MP 2.29 (ON RIGHT)				0.000	2.300	1		0	AS	1
FROM ROUTE 0011 (PARK	0502 AND ROUTE 0503	N/A	0.520	0.000	0.520	1		0	AS	1
CENTRAL ROAD) AT MP 0.94 (ON LEFT)	TO END OF LOOP	N/A	0.210	0.000	0.210	3		0	AS	1
FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.34 (ON LEFT)	TO END OF LOOP	N/A	0.270	0.000	0.270	3		0	AS	1
FROM ROUTE 0010 (MAIN TO ENTRANCE ROAD) AT MP 0.12 (ON LEFT)	ROUTE 0910 (GREENBELT MAINTENANCE AREA)	N/A	0.040	0.000	0.040	6		0	AS	1
FROM ROUTE 0012 TO (CAMPGROUND ACCESS)	ROUTE 0402 AND ROUTE 0403	N/A	0.000	0.000	0.000	6		0	GR	
FROM KENILWORTH AVENUE TO	ROUTE 0401 AND ROUTE 0403	N/A	0.000	0.000	0.000	6		0	GR	
FROM WESTCHESTER PARK TO	O PUMP AND ROUTE 0401 AND ROUTE 0402	N/A	0.000	0.000	0.000	6		0	GR	
FROM ROUTE 0503 (GREENBELT CAMPGROUND LOOP D)	TO GOOD LUCK ROAD	N/A	0.000	0.000	0.000	6		0	GR	
FROM ROUTE 0011 (PARK CENTRAL ROAD)	TO END	N/A	0.000	0.000	0.000	6		0	GR	
FROM ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.12 (ON RIGHT)	TO END OF LOOP	N/A	0.290	0.000	0.290	3		0	AS	1
FROM ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT)	TO END OF LOOP	N/A	0.470	0.000	0.470	3		0	AS	1
FROM ROUTE 0012 (CAMPGROUND ACCESS) AT END ON RIGHT	TO END OF LOOP	N/A	0.190	0.000	0.190	3		0	AS	1
FROM ROUTE 0012 (CAMPGROUND ACCESS) AT	TO END OF LOOP	N/A	0.500	0.000	0.500	3		0	AS	1
(()	ENTRANCE ROAD) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 (CAMPGROUND ACCESS) FROM KENILWORTH AVENUE FROM WESTCHESTER PARK ROAD FROM ROUTE 0503 GREENBELT CAMPGROUND LOOP D) FROM ROUTE 0011 (PARK CENTRAL ROAD) FROM ROUTE 0012 CAMPGROUND ACCESS) AT MP 0.12 (ON RIGHT) FROM ROUTE 0012 CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 CAMPGROUND ACCESS) AT END ON RIGHT	ENTRANCE ROAD) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 (CAMPGROUND ACCESS) ROM KENILWORTH AVENUE TO ROUTE 0401 AND ROUTE 0403 FROM WESTCHESTER PARK ROAD AND ROUTE 0402 FROM ROUTE 0503 GREENBELT CAMPGROUND LOOP D) FROM ROUTE 0011 (PARK CENTRAL ROAD) FROM ROUTE 0012 CAMPGROUND ACCESS) AT MP 0.12 (ON RIGHT) FROM ROUTE 0012 CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 TO END OF LOOP CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 TO END OF LOOP CAMPGROUND ACCESS) AT END ON RIGHT TO END OF LOOP	ENTRANCE ROAD) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 TO ROUTE 0402 AND ROUTE (CAMPGROUND ACCESS) 0403 FROM KENILWORTH AVENUE TO ROUTE 0401 AND ROUTE 0403 FROM WESTCHESTER PARK ROAD AND ROUTE 0401 ROAD AND ROUTE 0402 FROM ROUTE 0503 TO GOOD LUCK ROAD N/A GREENBELT CAMPGROUND LOOP D) FROM ROUTE 0011 (PARK TO END N/A CENTRAL ROAD) FROM ROUTE 0012 TO END OF LOOP ROM ROUTE 0012 TO END OF LOOP N/A CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 TO END OF LOOP N/A CAMPGROUND ACCESS) AT END ON RIGHT FROM ROUTE 0012 TO END OF LOOP N/A TO END OF LOOP N/A	ENTRANCE ROAD) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 (CAMPGROUND ACCESS) ROM KENILWORTH AVENUE ROAD FROM ROUTE 0503 FROM ROUTE 0503 FROM ROUTE 0503 FROM ROUTE 0501 TO END OF LOOP N/A 0.470 CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT) FROM ROUTE 0501 TO END OF LOOP N/A 0.500	ENTRANCE ROAD) AT MP 0.12 (ON LEFT) FROM ROUTE 01012 TO ROUTE 0402 AND ROUTE 0403 ROM KENILWORTH AVENUE TO ROUTE 0401 AND ROUTE 0403 ROM WESTCHESTER PARK ROAD AND ROUTE 0402 FROM ROUTE 0503 GREENBELT CAMPGROUND LOOP D) FROM ROUTE 0011 (PARK CENTRAL ROAD) FROM ROUTE 0012 TO END OF LOOP TO END OF LOOP N/A 0.000	ENTRANCE ROAD) AT MP 0.12 (ON LEFT) FROM ROUTE 0012 TO ROUTE 0402 AND ROUTE 0403 ROM KENILWORTH AVENUE TO ROUTE 0401 AND ROUTE 0403 ROM KENILWORTH AVENUE TO ROUTE 0401 AND ROUTE 0403 ROM KENILWORTH AVENUE TO ROUTE 0401 AND ROUTE 0403 ROM WESTCHESTER PARK TO PUMP AND ROUTE 0401 ROAD AND ROUTE 0402 FROM ROUTE 0503 TO GOOD LUCK ROAD ROBERBLT CAMPGROUND LOOP D FROM ROUTE 0501 TO END N/A 0.000 0.00				

(Numerical By Route #) Road Inventory Program 01/15/2010 Page 2 of 4

Shading Color Key: Red text denotes approx. mileage

White = Paved Routes, ARAN Driven Yellow = Unpaved Routes, ARAN not Driven

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

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

GREE	GREENBELT PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	escription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0504	N/A		GROUP CAMPGROUND	FROM ROUTE 0503 (GREENBELT CAMPGROUND LOOP D) AT MP 0.05 (ON LEFT)	TO END OF LOOP	N/A	0.080	0.000	0.080	3		7,181	AS	1
0900	21416		PARK POLICE SUBSTATION PARKING	FROM ROUTE 0010 (MAIN ENTRANCE ROAD) AT MP 0.02 (ON RIGHT)	TO PARKING	N/A	0.000	0.000	0.000			9,661	AS	1
0901	52796		PARK POLICE MAINTENANCE	FROM ROUTE 0010 (MAIN ENTRANCE ROAD) AT MP 0.04 (ON RIGHT)	TO PARKING	N/A	0.000	0.000	0.000			6,845	AS	1
0902	21410		HOLLY PICNIC AREA	FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.59 (ON LEFT)	TO ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.71 (ON LEFT)	N/A	0.000	0.000	0.000			31,934	AS	1
0903	21409		DOGWOOD NATURE TRAIL PARKING	ADJACENT TO ROUTE 0011 (PARK CENTRAL ROAD) AT MP 1.49 (ON RIGHT)		N/A	0.000	0.000	0.000			6,617	AS	1
0904	52797		RANGER STATION PARKING	FROM ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.06 (ON RIGHT)	TO ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.08 (ON RIGHT)	N/A	0.000	0.000	0.000			9,204	AS	1
0905	52798		GOOD LUCK ROAD BIKE TRAIL PARKING	FROM GOOD LUCK ROAD	TO PARKING	N/A	0.000	0.000	0.000			9,981	AS	1
0906	21417		PARK HEADQUARTERS PARKING	FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.78 (ON RIGHT)	TO ROUTE 0400 (MAINTENANCE AREA ACCESS) AT MP 0.01 (ON RIGHT)	N/A	0.000	0.000	0.000			15,388	AS	1
0907ZZ	90254		SWEET GUM PICNIC PARKING AREAS	ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) (ON LEFT AND RIGHT)		N/A	0.000	0.000	0.000			21,589	AS	1
0908ZZ	90255		LAUREL PICNIC AREA PARKING AREAS	ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) (ON LEFT AND RIGHT)		N/A	0.000	0.000	0.000			21,823	AS	1
0909	90256		CAMPGROUND DUMPSTATION	FROM ROUTE 0502 (GREENBELT CAMPGROUND LOOP C) AT MP 0.14 (ON RIGHT)	TO PARKING	N/A	0.000	0.000	0.000			4,897	AS	1
0910	90257		GREENBELT MAINTENANCE AREA	FROM ROUTE 0400 (MAINTENANCE AREA ACCESS) AT END	TO PARKING	N/A	0.000	0.000	0.000			46,279	AS	1
0911	N/A		RANGER CAMPGROUND PARKING	ADJACENT TO ROUTE 0500 (GREENBELT CAMPGROUND LOOP A) AT MP 0.01 (ON RIGHT)		N/A	0.000	0.000	0.000			1,128	AS	1

Road Inventory Program 01/15/2010 (Numerical By Route #) Page 3 of 4

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Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

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

= Concession Route Flag ON

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SUMMARY TOTALS FOR GREENBELT PARK												
ROUTE TOTAL	<u>s</u>		LANE MIL	E TOTAL	<u>s</u>	CONCESSION TOTALS						
ARAN Driven Route Miles	4.940	ARAN Driven Lane Miles			8.631	Concession Paved Route Miles				0.000		
All Paved Route Miles	5.020	Paved	Parking Lane	Miles	3.192		Concession	e Miles	0.000			
All Unpaved Route Miles	0.000	Pav	ved MRR Lane	Miles	0.124	Concession Paved Parking Area SQFT				0		
TOTAL PARK ROUTE MILES	5.020	TOTAL	PAVED LANE M	ILES	11.947	Concession Unpaved Parking Area SQFT				0		
All Manually Rated Roads (SQFT)	7,181						R SQFT	0				
PARKING AREA TO	TALS			<u>v</u>	VEIGHTED AVERAGE PARK VALUES							
All Paved Parking (SQFT)	185,347	PCR (Rating)	SCR (Rating)	RCI (Rating)	RUT (Index)	AC (Index)	LC (Index)	TC (Index)	PATCH (Index)	PCR (Concession)		
All Unpaved Parking (SQFT) TOTAL ALL PARKING (SQFT)	185,347	70.83	71.15	70.68	92.01	92.71	91.97	94.52	99.94	N/A		

Road Inventory Program 01/15/2010 (Numerical By Route #) Page 4 of 4

Shading Color Key: Red text denotes approx. mileage

Class 1

Class 8

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

lue = All Payed 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

General Park Road Functional Classification Table

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

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.

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.

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.

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 GREE

Road Inventory Program 01/15/2010

(Numerical By Subcomponent #)

Page 1 of 1

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

= Subcomponent Flag ON

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

GREE

GREENBELT PARK

Asset E	Entered	in F	MSS System								
Rte.	FMSS	d m		Route Descript	ion	ncess	Func. Class	Paved	Un- Paved	Total Route Length	Manual Rated
No.	No.	Sub	Route Name	From	То	0 8	2 5	Miles	Miles	Length	SQ/FT
0907ZZ	90254		SWEET GUM PICNIC PARKING AREAS	ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) (ON LEFT AND RIGHT)				0.00	0.00	0.00	21,589
0908ZZ	90255		LAUREL PICNIC AREA PARKING AREAS	ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) (ON LEFT AND RIGHT)				0.00	0.00	0.00	21,823

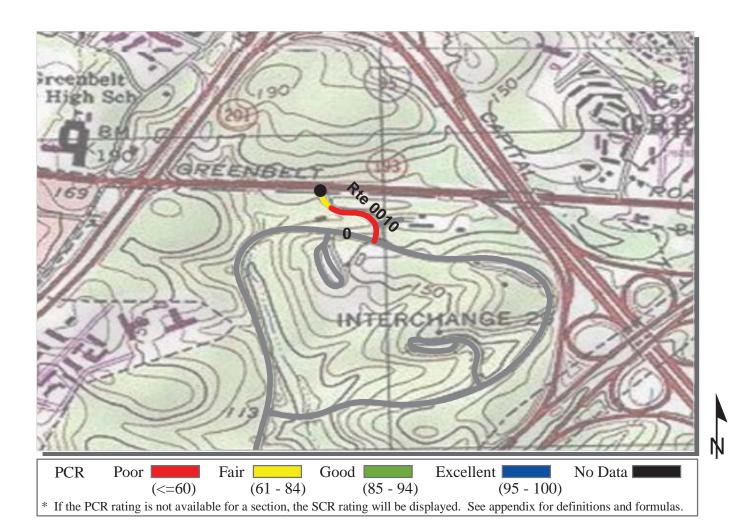
Asset 0	GREE-0	907Z	Z Subcomponent Breakdo	own							
Rte. No.	FMSS No.	Sub	Route Name	Route Descrip		Concess Route	Func. Class	Paved Miles	Un- Paved Miles	Total Route Length	Manual Rated SQ/FT
		ωO	Route Name	From	То	0 2	ĒŌ	Miles	Miles		3Q/11
0907AZ	90254		SWEET GUM PICNIC PARKING A	ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.07 (ON LEFT)				0.00	0.00	0.00	4,997
0907BZ	90254		SWEET GUM PICNIC PARKING B	ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.07 (ON RIGHT)				0.00	0.00	0.00	5,199
0907CZ	90254		SWEET GUM PICNIC PARKING C	ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.17 (ON LEFT)				0.00	0.00	0.00	5,283
0907DZ	90254		SWEET GUM PICNIC PARKING D	ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.17 (ON RIGHT)				0.00	0.00	0.00	6,109

Asset 6	REE-0	908Z	Z Subcomponent Breakdo	own							
Rte.	FMSS No.	Sub		Route Description		Concess Route	Func. Class	Paved	Un- Paved	Total Route Length	Manual Rated
NO.	NO.	ช วั	Route Name	From	То	۵ <u>۶</u>	2 5	Miles	Miles	Length	SQ/FT
0908AZ	90255		LAUREL PICNIC AREA PARKING A	ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.15 (ON LEFT)				0.00	0.00	0.00	5,173
0908BZ	90255		LAUREL PICNIC AREA PARKING B	ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.15 (ON RIGHT)				0.00	0.00	0.00	4,038
0908CZ	90255		LAUREL PICNIC AREA PARKING C	ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.23 (ON LEFT)				0.00	0.00	0.00	6,151
0908DZ	90255		LAUREL PICNIC AREA PARKING D	ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.23 (ON RIGHT)				0.00	0.00	0.00	6,461

Greenbelt Park



Section 5
Paved Route Condition Rating Sheets
(CRS)

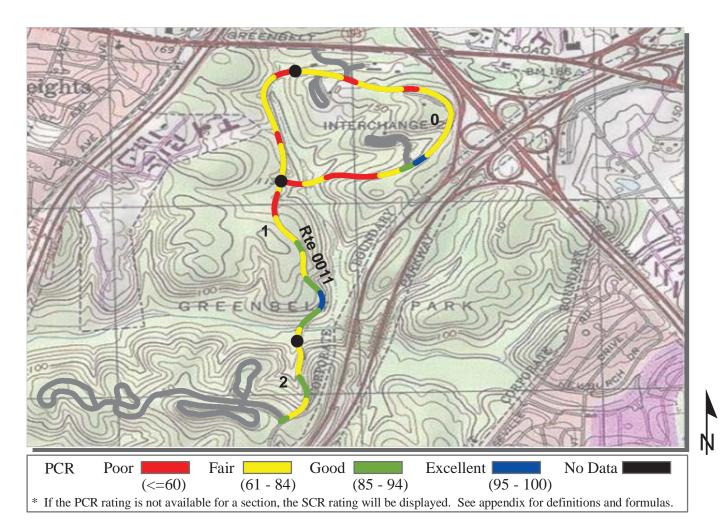


ROUTE: 0010 MAIN ENTRANCE ROAD

GREE: GREENBELT PARK

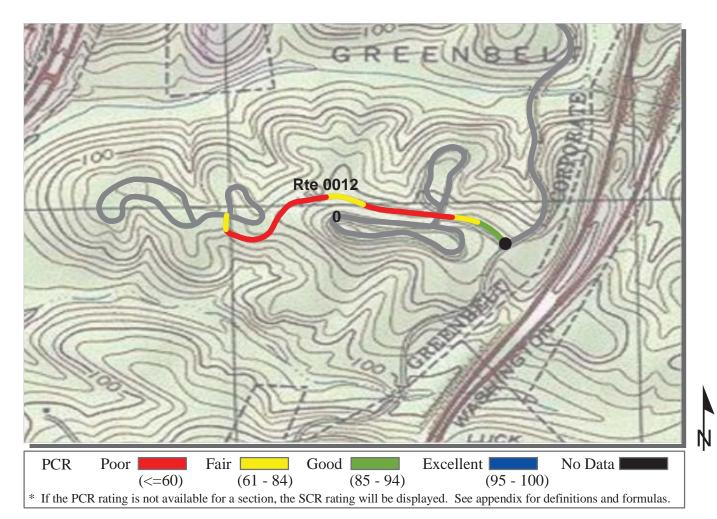
COLLECTED: 3/20/2009 NATIONAL CARITAL RECION TOTAL LENGTH: 0.15 Miles

NATIONAL CAPITAL REGION			TOTAL	LENGTH:	0.15 Miles
Section Number	0				
Section Length (mi)	0.15				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at a possible found at a possible found at a force for the found in th		rt.gov	
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)	34				
PCR (Pavement Condition Rating)	39				
Distress Index Values					
Alligator Cracking Index	83				
Longitudinal Cracking Index	83				
Tranverse Cracking Index	79				
Patching Index	100				
Rutting Index	90				
Roughness Condition Index (RCI)	50				



ROUTE: 0011 PARK CENTRAL ROAD

NATIONAL CADITAL DECION				LLECTED:	3/20/2009
NATIONAL CAPITAL REGION Section Number	0	1	2 101AL	LENGTH:	2.30 Miles
Section Length (mi)	1.00	1.00	0.30		
Traffic AADT SADT ADT Date	Traffic data r Click on PRO	•	www.efl.fhwa.do Traffic Data	ot.gov	
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	21	22	22		
Lane Width (ft)	10	10	9		
Shoulder Width Right (ft)	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC		
Roadway Condition Information					
SCR (Surface Condition Rating)	66	71	92		
PCR (Pavement Condition Rating)	67	72	86		
Distress Index Values					
Alligator Cracking Index	92	93	100		
Longitudinal Cracking Index	91	92	97		
Tranverse Cracking Index	94	93	99		
Patching Index	100	100	100		
Rutting Index	90	93	96		
Roughness Condition Index (RCI)	72	73	76		



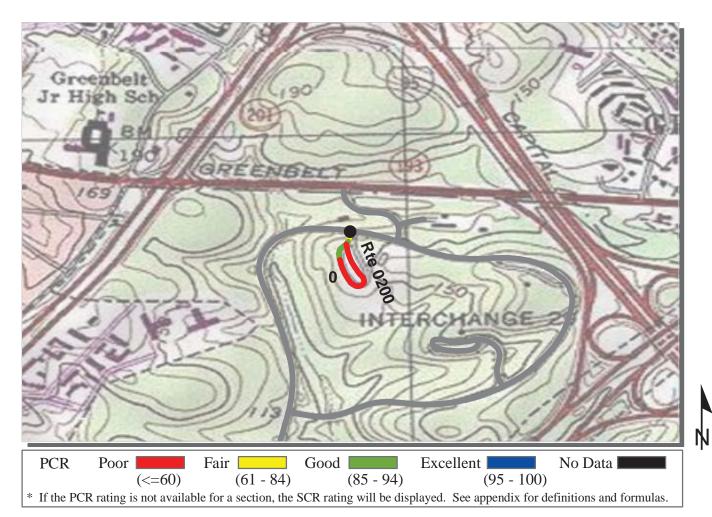
COLLECTED:

3/20/2009

ROUTE: 0012 CAMPGROUND ACCESS

NIATIONIAI	CADITAL	DECION

NATIONAL CAPITAL REGION			TOTAL	LENGTH:	0.52 Miles
Section Number	0				
Section Length (mi)	0.52				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traf		ot.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	50				
PCR (Pavement Condition Rating)	53				
Distress Index Values					
Alligator Cracking Index	75				
Longitudinal Cracking Index	89				
Tranverse Cracking Index	96				
Patching Index	99				
Rutting Index	91				
Roughness Condition Index (RCI)	56				



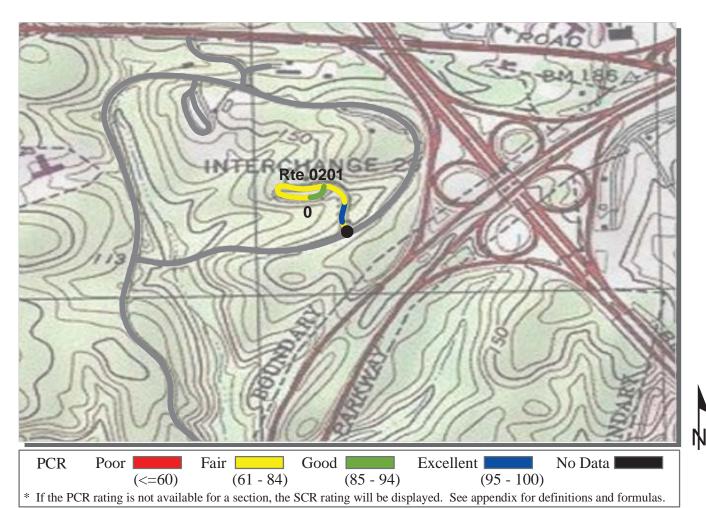
COLLECTED:

3/20/2009

ROUTE: 0200 SWEETGUM PICNIC LOOP

NATIONAL CAPITAL REGION	TO

NATIONAL CAPITAL REGION			TOTAL	LENGTH:	0.21 Miles
Section Number	0				
Section Length (mi)	0.21				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS parks have traf		rt.gov	
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	19				
Lane Width (ft)	17				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	64				
PCR (Pavement Condition Rating)	62				
Distress Index Values					
Alligator Cracking Index	96				
Longitudinal Cracking Index	86				
Tranverse Cracking Index	83				
Patching Index	100				
Rutting Index	99				
Roughness Condition Index (RCI)	49				

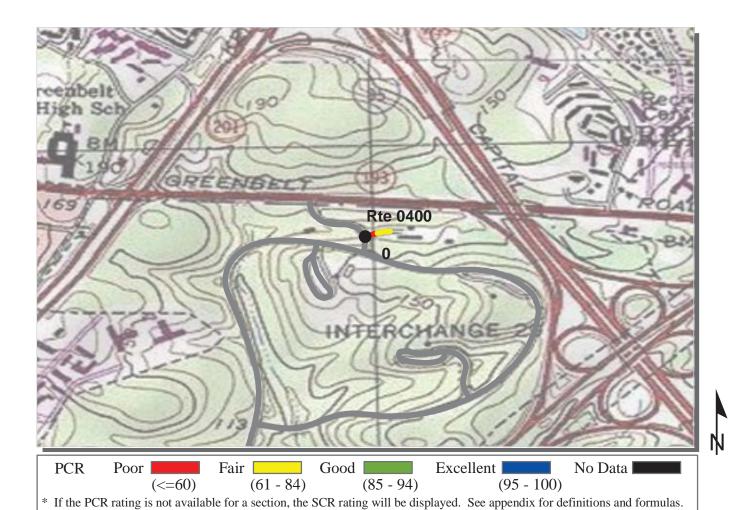


ROUTE: 0201 LAUREL PICNIC AREA

	COLLECTED:	3/20/2009
NATIONAL CAPITAL REGION	TOTAL LENGTH:	0.27 Miles

0		1		
•				
0.27				
	3		ot.gov	
(14010. 1401 a.	n parks nave trai	ne data)		
2				
18				
14				
NC				
NC				
82				
77				
96				
96				
97				
100				
94				
32				
	Traffic data is Click on PRO (Note: Not a) 2 18 14 NC NC 82 77 96 96 97 100 94	Traffic data may be found at Click on PROGRAMS / NPS (Note: Not all parks have traf	Traffic data may be found at www.efl.fhwa.dc Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 2 18 14 NC NC 82 77 96 96 97 100 94	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 2 18 14 NC NC NC 96 96 97 100 94

3/20/2009

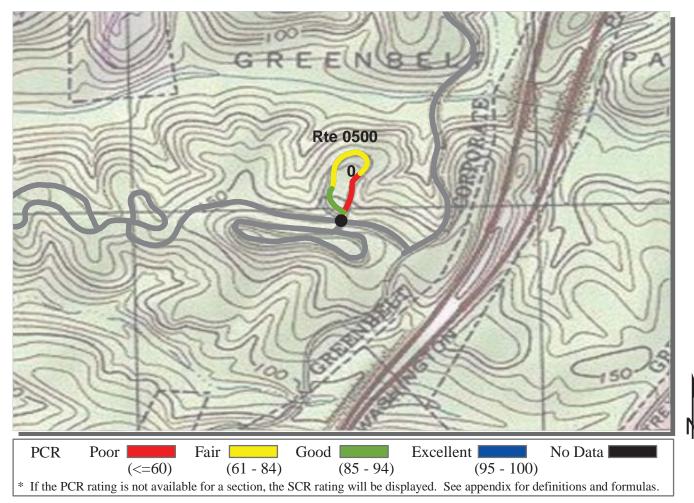


ROUTE: 0400 MAINTENANCE AREA ACCESS

GREE: GREENBELT PARK

	COLLECTED:
NATIONAL CAPITAL REGION	TOTAL LENGTH:

NATIONAL CAPITAL REGION			TOTAL	LENGTH:	0.04 Miles
Section Number	0				
Section Length (mi)	0.04				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traft		rt.gov	
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)	60				
PCR (Pavement Condition Rating)	60				
Distress Index Values					
Alligator Cracking Index	90				
Longitudinal Cracking Index	89				
Tranverse Cracking Index	88				
Patching Index	97				
Rutting Index	97				
Roughness Condition Index (RCI)	NC				

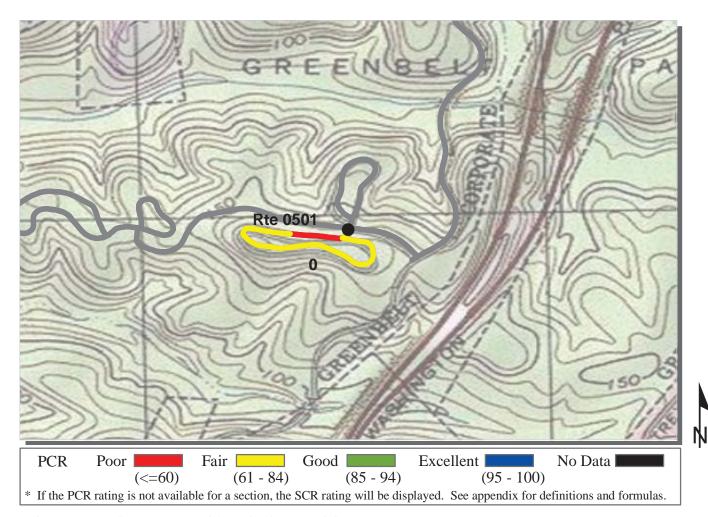


ROUTE: 0500 GREENBELT CAMPGROUND LOOP A

 $\mathbf{GREE}:\ \mathbf{GREENBELT}\ \mathbf{PARK}$

Castian North	0			
NATIONAL CAPITAL REGION		TOTAL	LENGTH:	0.29 Miles
		CO	LLECTED:	3/20/2009

NATIONAL CAPITAL REGION			IUIAI	LENGTH:	0.29 Miles
Section Number	0				
Section Length (mi)	0.29				
Traffic					
AADT		may be found at OGRAMS / NPS		ot.gov	
SADT		all parks have traf			
ADT Date	(11010.11011	an punto nuve trui	ire data)		
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	84				
PCR (Pavement Condition Rating)	69				
Distress Index Values					
Alligator Cracking Index	99				
Longitudinal Cracking Index	95				
Tranverse Cracking Index	96				
Patching Index	100				
Rutting Index	94				
Roughness Condition Index (RCI)	33				

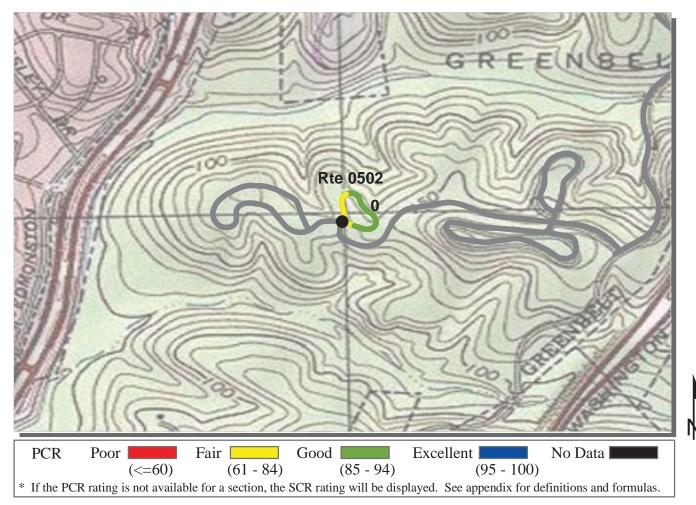


ROUTE: 0501 GREENBELT CAMPGROUND LOOP B

GREE: GREENBELT PARK

	COLLECTED:	3/20/2009
NATIONAL CAPITAL REGION	TOTAL LENGTH:	0.47 Miles

a may be found at w ROGRAMS / NPS ' all parks have traff	Traffic Data	ot.gov	
ROGRAMS / NPS	Traffic Data	ot.gov	
ROGRAMS / NPS	Traffic Data	ot.gov	
ROGRAMS / NPS	Traffic Data	ot.gov	
	ne data)		
l l			

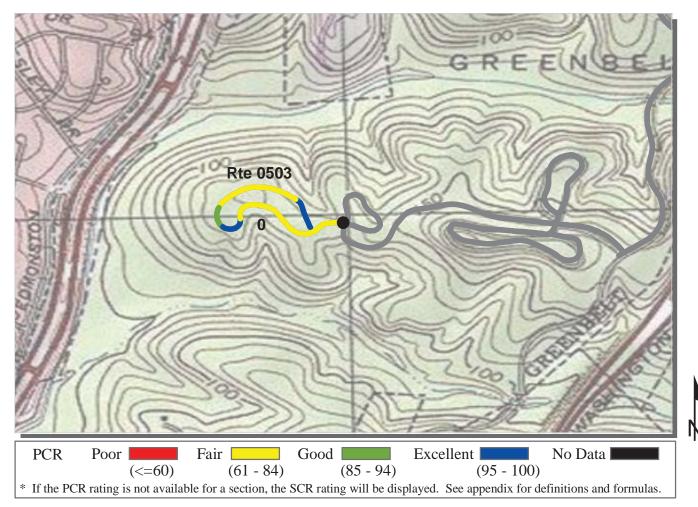


ROUTE: 0502 GREENBELT CAMPGROUND LOOP C

GREE: GREENBELT PARK

	COLLECTED:	3/20/2009
NATIONAL CAPITAL REGION	TOTAL LENGTH:	0.19 Miles

		TOTAL	LENGTH:	0.19 Miles
0				
0.19				
	<u>.</u>	_		
	-		ot.gov	
(11010.1101	an parks have tr	arrie data)		
1				
15				
15				
NC				
NC				
84				
84				
97				
96				
96				
100				
96				
NC				
	0.19 Traffic dat Click on P (Note: Note:	Traffic data may be found a Click on PROGRAMS / NF (Note: Not all parks have tr 1 15 15 NC NC NC 84 84 97 96 96 100 96	Traffic data may be found at www.efl.fhwa.de Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 1 15 15 NC NC NC 84 84 97 96 96 100 96	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 1 15 15 NC NC NC 84 84 84 97 96 96 96 100 96



ROUTE: 0503 GREENBELT CAMPGROUND LOOP D

GREE: GREENBELT PARK

9		
	COLLECTED:	3/20/2009
NATIONAL CAPITAL REGION	TOTAL LENGTH:	0.50 Miles

NATIONAL CAPITAL REGION			TOTAL	LENGTH:	0.50 Miles
Section Number	0				
Section Length (mi)	0.50				
Traffic AADT SADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	16				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	88				
PCR (Pavement Condition Rating)	79				
Distress Index Values					
Alligator Cracking Index	95				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	97				
Roughness Condition Index (RCI)	29				
NG N-+ C-II+- I				· · · · · · · · · · · · · · · · · · ·	

Greenbelt Park



Section 6
Manually Rated Paved Route
Condition Rating Sheets (MRR)

GREENBELT PARK

Route 0504

GROUP CAMPGROUND

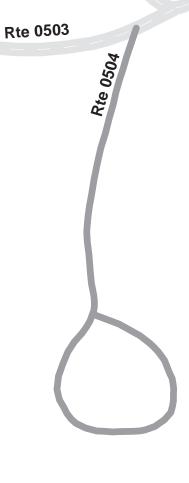
FROM ROUTE 0503 (GREENBELT CAMPGROUND LOOP D) AT MP 0.05 (ON LEFT) TO END OF LOOP

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0504	PUBLIC	11/24/2008		7,181	0.12	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	1	0	GUTTER	NO CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths







Greenbelt Park



Section 7
Parking Area Condition Rating Sheets

GREENBELT PARK

Route 0900

PARK POLICE SUBSTATION PARKING

FROM ROUTE 0010 (MAIN ENTRANCE ROAD) AT MP 0.02 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0900	NONPUBLIC	11/24/2008		9,661	0.17	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths





Rte 0900
Rte 0901

Rte 0011

800

200 100 0 200

Feet N 7-1

GREENBELT PARK

Route 0901

PARK POLICE MAINTENANCE

FROM ROUTE 0010 (MAIN ENTRANCE ROAD) AT MP 0.04 (ON RIGHT) TO PARKING

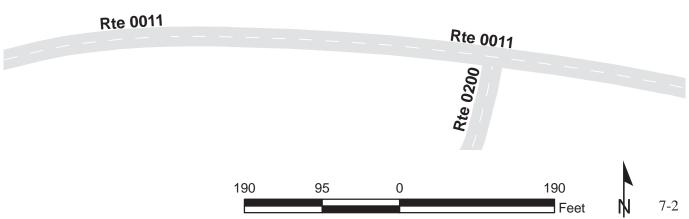
Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901	NONPUBLIC	11/24/2008		6,845	0.12	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
1	0	1	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths









HOLLY PICNIC AREA

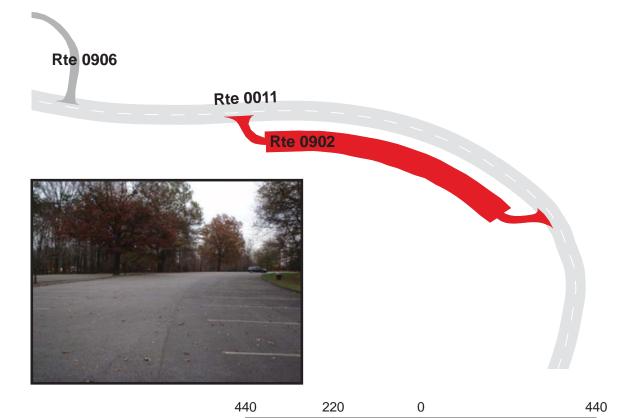
FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.59 (ON LEFT) TO ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.71 (ON LEFT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902	PUBLIC	11/2	24/2008	31,934	0.55	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	ASPHALT	
2	0	2	0	GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths







DOGWOOD NATURE TRAIL PARKING

ADJACENT TO ROUTE 0011 (PARK CENTRAL ROAD) AT MP 1.49 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0903	PUBLIC	11/24/2008		6,617	0.11	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths









150

300



RANGER STATION PARKING

FROM ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.06 (ON RIGHT) TO ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.08 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0904	NONPUBLIC	11/24/2008		9,204	0.16	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths





Rte 0911

Rte 0012

150

Rte 0501



GREENBELT PARK

Route 0905

${\tt GOOD\ LUCK\ ROAD\ BIKE\ TRAIL\ PARKING}$

FROM GOOD LUCK ROAD TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0905	PUBLIC	11/2	24/2008	9,981	0.17	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
1	0	1	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







GREENBELT PARK

Route 0906

PARK HEADQUARTERS PARKING

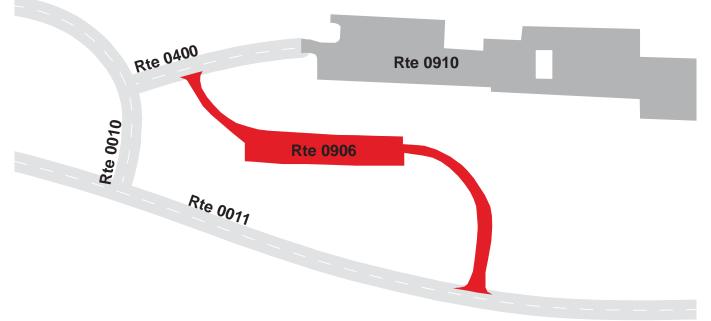
FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.78 (ON RIGHT) TO ROUTE 0400 (MAINTENANCE AREA ACCESS) AT MP 0.01 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906	NONPUBLIC	11/2	24/2008	15,388	0.27	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	ASPHALT &	
1	0	0	0	GUTTER	CONCRETE	FAIR/73

^{*} Lane miles are based on 11' lane widths







GREENBELT PARK Route 0907ZZ

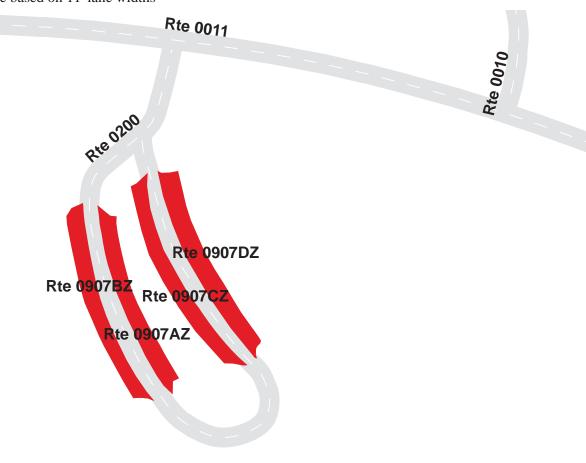
SWEET GUM PICNIC PARKING AREAS

ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) (ON LEFT AND RIGHT)

Summary Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907ZZ	PUBLIC	11/24/2008		21,589	0.37	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	2	0	0	AND GUTTER	NO CURB	SUMMARY/73

^{*} Lane miles are based on 11' lane widths



GREENBELT PARK Route 0907AZ

SWEET GUM PICNIC PARKING A

ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.07 (ON LEFT)

Subcomponent Record

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0907AZ	PUBLIC	11/24/2008		4,997	0.09	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	0	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



Rte 0010

Rte 0907DZ

200

Rte 0907BZ Rte 0907CZ

Rte 0907AZ



GREENBELT PARK Route 0907BZ

SWEET GUM PICNIC PARKING B

ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.07 (ON RIGHT)

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907BZ	PUBLIC	11/2	24/2008	5,199	0.09	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	1	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



Rte 0907DZ

Rte 0907BZ Rte 0907CZ

Rte 0907AZ



GREENBELT PARK Route 0907CZ

SWEET GUM PICNIC PARKING C

ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.17 (ON LEFT)

Subcomponent Record

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0907CZ	PUBLIC	11/2	24/2008	5,283	0.09	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	1	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

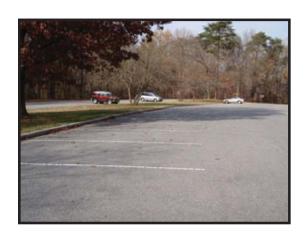




Rte 0907DZ

Rte 0907BZ Rte 0907CZ

Rte 0907AZ



GREENBELT PARK Route 0907DZ

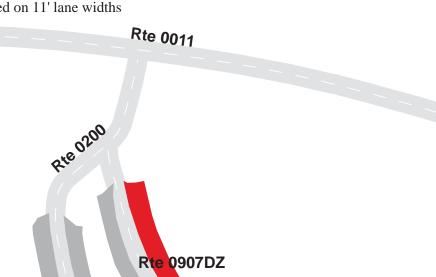
SWEET GUM PICNIC PARKING D

ADJACENT TO ROUTE 0200 (SWEETGUM PICNIC LOOP) AT MP 0.17 (ON RIGHT)

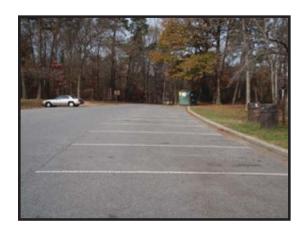
Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907DZ	PUBLIC	11/2	24/2008	6,109	0.11	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	0	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



Rte 0907BZ Rte 0907CZ



GREENBELT PARK Route 0908ZZ

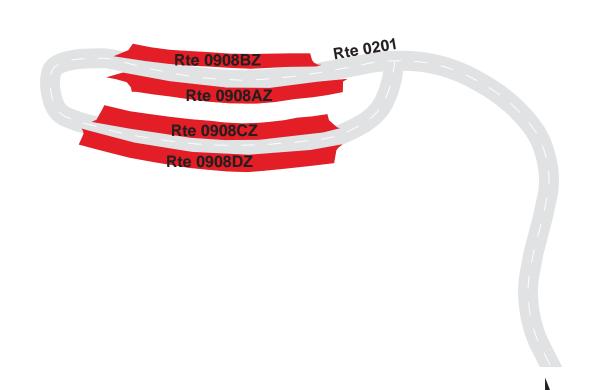
LAUREL PICNIC AREA PARKING AREAS

ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) (ON LEFT AND RIGHT)

Summary Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908ZZ	PUBLIC	11/2	24/2008	21,823	0.38	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	3	0	0	AND GUTTER	NO CURB	SUMMARY/73

^{*} Lane miles are based on 11' lane widths



100

200

7-13

200

GREENBELT PARK Route 0908AZ

LAUREL PICNIC AREA PARKING A

ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.15 (ON LEFT)

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908AZ	PUBLIC	11/2	24/2008	5,173	0.09	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	1	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







200

100

GREENBELT PARK Route 0908BZ

LAUREL PICNIC AREA PARKING B

ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.15 (ON RIGHT)

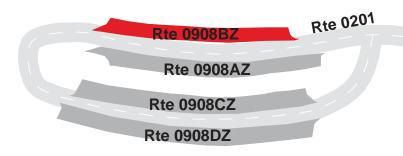
Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908BZ	PUBLIC	11/2	24/2008	4,038	0.07	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	0	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







200

100

7-15

GREENBELT PARK Route 0908CZ

LAUREL PICNIC AREA PARKING C

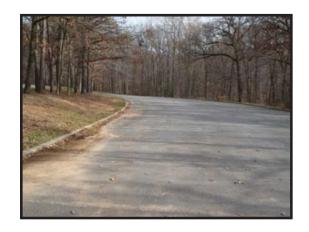
ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.23 (ON LEFT)

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908CZ	PUBLIC	11/2	24/2008	6,151	0.11	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	0	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







200

GREENBELT PARK Route 0908DZ

LAUREL PICNIC AREA PARKING D

ADJACENT TO ROUTE 0201 (LAUREL PICNIC AREA) AT MP 0.23 (ON RIGHT)

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908DZ	PUBLIC	11/2	24/2008	6,461	0.11	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	2	0	0	AND GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







GREENBELT PARK

Route 0909

CAMPGROUND DUMPSTATION

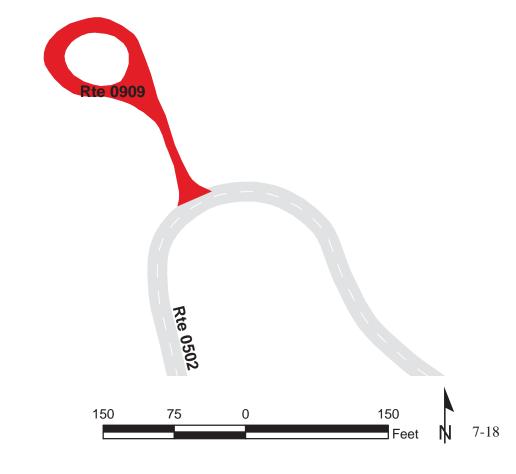
FROM ROUTE 0502 (GREENBELT CAMPGROUND LOOP C) AT MP 0.14 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909	PUBLIC	11/2	24/2008	4,897	0.08	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







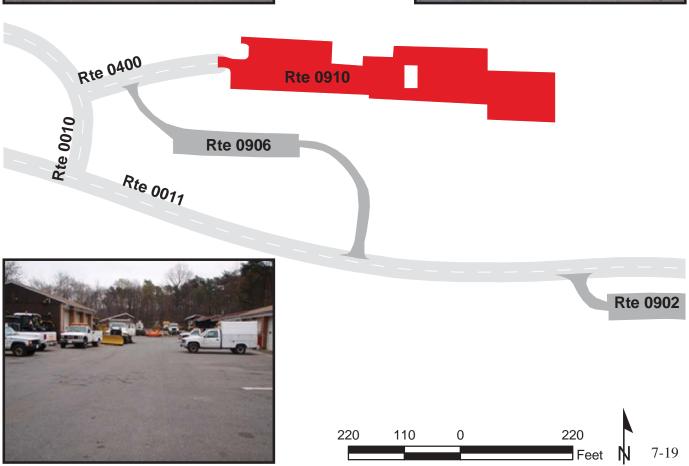
GREENBELT MAINTENANCE AREA FROM ROUTE 0400 (MAINTENANCE AREA ACCESS) AT END TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0910	NONPUBLIC	11/2	24/2008	46,279	0.80	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	1	0	GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







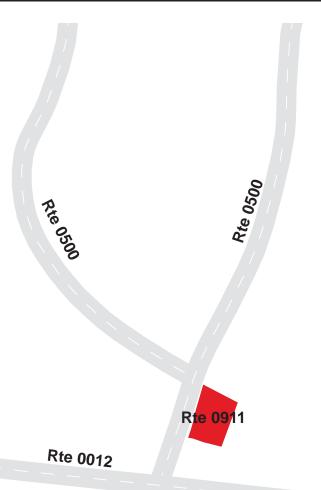
RANGER CAMPGROUND PARKING

ADJACENT TO ROUTE 0500 (GREENBELT CAMPGROUND LOOP A) AT MP 0.01 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911	NONPUBLIC	11/2	24/2008	1,128	0.02	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths





Rte 0501

Greenbelt Park



Section 8
Parkwide / Route Maintenance
Features Summaries

GREE: PARKWIDE MAINTENANCE FEATURES SUMMARY

Notice: Drop Inlets along ARAN-driven routes were NOT marked by NPS nor were they inventoried by RIP. Culverts that lack a BIP assigned Structure Number along ARAN-driven routes were NOT marked by NPS nor were they inventoried by RIP. Culverts that have a BIP assigned Structure Number along ARAN-driven routes were marked by NPS and were inventoried by RIP. Culverts and Drop Inlets that are associated with Manually Rated Routes and Paved Parking Areas are included in the Cycle 4 counts. To view the Cycle 3 culvert and drop inlet inventory, please refer to the Cycle 3 RIP Report.

FEATURE	LINEAR FEET	COUNT
BARRIER	1,668	
BOLLARD	0	
BRIDGE		0
CABLE	0	
CATTLE GUARD		0
CULVERT		5
CURB	850	
DROP INLET		5
FIRE HYDRANT		4
GATE		17
GUARD/GUIDE RAIL	1,668	
GUARD/GUIDE WALL	0	
INTERSECTION		75
LOW WATER CROSSING	0	0
MILE MARKER		0
OVERPASS		0
OVERHEAD SIGN		0
PARK BOUNDARY		1
PAVED DITCH	0	
PULLOUT		0
RAILROAD CROSSING		0
RETAINING WALL	0	0
SIGN		139
STATE BOUNDARY		0
TEMPORARY BARRIER	0	
TRAFFIC LIGHT		0
TUNNEL	0	0
TURNOUT	0	
	·	

GREE: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 MAIN ENTRANCE ROAD	ROUTE 0011 PARK CENTRAL ROAD	ROUTE 0012 CAMPGROUND ACCESS	ROUTE 0200 SWEETGUM PICNIC LOOP	ROUTE 0201 LAUREL PICNIC AREA	ROUTE 0400 MAINTENANCE AREA ACCESS	UNIT
BARRIER	428	887	243	0	0	111	LINEAR FEET
BOLLARD	0	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	222	628	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	1	2	1	0	0	0	EACH
GATE	1	1	0	1	1	1	EACH
GUARD/GUIDE RAIL	428	887	243	0	0	111	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	8	13	8	9	9	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	1	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	15	35	33	12	8	6	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: Drop Inlets along ARAN-driven routes were NOT marked by NPS nor were they inventoried by RIP. Culverts that lack a BIP assigned Structure Number along ARAN-driven routes were NOT marked by NPS nor were they inventoried by RIP. Culverts that have a BIP assigned Structure Number along ARAN-driven routes were marked by NPS and were inventoried by RIP. To view the Cycle 3 culvert and drop inlet inventory for ARAN-driven routes, please refer to the Cycle 3 RIP Report.

GREE: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0500 GREENBELT CAMPGROUND LOOP A	ROUTE 0501 GREENBELT CAMPGROUND LOOP B	ROUTE 0502 GREENBELT CAMPGROUND LOOP C	ROUTE 0503 GREENBELT CAMPGROUND LOOP D	UNIT
BARRIER	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	EACH
CABLE	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	EACH
CULVERT	0	0	0	0	EACH
CURB	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	EACH
FIRE HYDRANT	0	0	0	0	EACH
GATE	2	1	2	1	EACH
GUARD/GUIDE RAIL	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	LINEAR FEET
INTERSECTION	6	5	6	7	EACH
LOW WATER CROSSING	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	EACH
OVERPASS	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	LINEAR FEET
SIGN	7	14	3	6	EACH
STATE BOUNDARY	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	EACH
TUNNEL	0	0	0	0	EACH
TUNNEL	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	LINEAR FEET

Notice: Drop Inlets along ARAN-driven routes were NOT marked by NPS nor were they inventoried by RIP. Culverts that lack a BIP assigned Structure Number along ARAN-driven routes were NOT marked by NPS nor were they inventoried by RIP. Culverts that have a BIP assigned Structure Number along ARAN-driven routes were marked by NPS and were inventoried by RIP. To view the Cycle 3 culvert and drop inlet inventory for ARAN-driven routes, please refer to the Cycle 3 RIP Report.

GREE: STRUCTURE LIST

No data available for this section.

Greenbelt Park



Section 9
Park Route Maintenance Features
Road Logs

ROUTE 0010: MAIN ENTRANCE ROAD

Notice: Culverts and drop inlets were NOT marked by NPS nor inventoried by RIP in Cycle 4, therefore no culverts or drop inlets are reported in any Road Log. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7) and Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM GREENBELT ROAD
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (WALKER DRIVE / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (GREENBELT ROAD / NON-NPS)
0.000	0.000	PARK BOUNDARY	N/A	
0.000	0.000	SIGN	RIGHT	REGULATORY, ONE WAY
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (GREENBELT ROAD / NON-NPS)
0.004	0.004	FIRE HYDRANT	RIGHT	
0.013	0.013	SIGN	RIGHT	GUIDE, CAMPGROUND U.S. PARK POLICE
0.013	0.013	SIGN	RIGHT	GUIDE, GREENBELT PARK HEADQUARTERS INFORMATION
0.014	0.063	GUARD/GUIDE RAIL	LEFT	
0.017	0.017	INTERSECTION	RIGHT	ROUTE 0900 (PARK POLICE SUBSTATION PARKING)
0.017	0.017	SIGN	RIGHT	GUIDE, B.W. PARKWAY WASHINGTON
0.024	0.024	SIGN	LEFT	GUIDE, SUBSTATION UNITED STATES PARK POLICE
0.024	0.024	SIGN	RIGHT	GUIDE, SUBSTATION UNITED STATES PARK POLICE
0.042	0.042	SIGN	RIGHT	REGULATORY, AUTHORIZED POLICE VEHICLES ONLY
0.044	0.044	INTERSECTION	RIGHT	ROUTE 0901 (PARK POLICE MAINTENANCE)
0.055	0.055	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.076	0.076	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.080	0.080	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.085	0.117	GUARD/GUIDE RAIL	LEFT	
0.109	0.109	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.109	0.109	SIGN	RIGHT	GUIDE, PARK HDQTRS.
0.121	0.121	INTERSECTION	LEFT	ROUTE 0400 (MAINTENANCE AREA ACCESS)
0.133	0.133	GATE	N/A	
0.148	0.148	SIGN	RIGHT	REGULATORY, STOP
0.150	0.150	INTERSECTION	RIGHT	ROUTE 0011 (PARK CENTRAL ROAD)
0.150	0.150	SIGN	N/A	GUIDE, HOLLY & LAUREL PICNIC AREA
0.150	0.150	SIGN	N/A	GUIDE, SWEETGUM PICNIC AREA
0.150	0.150	INTERSECTION	LEFT	ROUTE 0011 (PARK CENTRAL ROAD)
0.150	0.150	ROUTE END	N/A	TO ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.87 (ON RIGHT

ROUTE 0011: PARK CENTRAL ROAD

FROM

TO

Notice: Culverts and drop inlets were NOT marked by NPS nor inventoried by RIP in Cycle 4, therefore no culverts or drop inlets are reported in any Road Log. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7) and Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 1.42 (ON LEFT)
0.000	0.000	SIGN	N/A	GUIDE, PARK EXIT
0.000	0.000	SIGN	N/A	GUIDE, PICNIC AREA CAMPGROUND
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0011 (PARK CENTRAL ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (PARK CENTRAL ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.039	0.068	GUARD/GUIDE RAIL	LEFT	
0.040	0.069	GUARD/GUIDE RAIL	RIGHT	
0.101	0.101	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
).333	0.333	INTERSECTION	RIGHT	UNPAVED ROUTE (GATED)
0.340	0.340	INTERSECTION	LEFT	ROUTE 0201 (LAUREL PICNIC AREA)
).343	0.343	SIGN	LEFT	GUIDE, LAUREL PICNIC AREA
).343	0.343	SIGN	RIGHT	GUIDE, LAUREL PICNIC AREA
0.402	0.402	SIGN	LEFT	REGULATORY, NO PARKING ON GRASS
).470	0.470	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
).534	0.534	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
).585	0.585	INTERSECTION	LEFT	ROUTE 0902 (HOLLY PICNIC AREA)
).587	0.587	SIGN	LEFT	GUIDE, RESERVED PICNIC AREA CLOSED AT DUSK
).659	0.659	SIGN	LEFT	GUIDE, HOLLY PICNIC AREA
).660	0.660	SIGN	RIGHT	GUIDE, HOLLY PICNIC AREA
).712	0.712	SIGN	RIGHT	GUIDE, RESERVED PICNIC AREA CLOSED AT DUSK
).714	0.714	INTERSECTION	LEFT	ROUTE 0902 (HOLLY PICNIC AREA)
).750	0.750	FIRE HYDRANT	RIGHT	
).780	0.780	INTERSECTION	RIGHT	ROUTE 0906 (PARK HEADQUARTERS PARKING)
).782	0.782	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.827	0.827	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.840	0.840	SIGN	RIGHT	GUIDE, PARK EXIT
0.867	0.867	INTERSECTION	RIGHT	ROUTE 0010 (MAIN ENTRANCE ROAD)
0.895	0.895	SIGN	RIGHT	GUIDE, PARK EXIT WASHINGTON
0.937	0.937	INTERSECTION	LEFT	ROUTE 0200 (SWEETGUM PICNIC LOOP)

ROUTE 0011: PARK CENTRAL ROAD

Notice: Culverts and drop inlets were NOT marked by NPS nor inventoried by RIP in Cycle 4, therefore no culverts or drop inlets are reported in any Road Log. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7) and Parkwide Maintenance Features Summary (Section 8).

0.941 0.941 SIGN LEFT GUIDE, SWEETGUM PICNIC AREA 0.958 0.958 FIRE HYDRANT RIGHT 0.984 0.984 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.040 1.052 GUARD/GUIDE RAIL LEFT 1.050 1.061 GUARD/GUIDE RAIL LEFT 1.416 1.416 INTERSECTION LEFT 1.438 SIGN RIGHT GUIDE, INFORMATION CAMPGROUND 1.438 1.438 SIGN RIGHT REGULATORY, PARK CLOSED AT DARK 1.468 1.468 SIGN RIGHT REGULATORY, PARK CLOSED AT DARK 1.487 1.487 INTERSECTION RIGHT REGULATORY, PARK CLOSED AT DARK 1.502 1.502 SIGN RIGHT ROUTE 0903 (DOGWOOD NATURE TRAIL 1.502 1.502 SIGN LEFT GUIDE, DOGWOOD NATURE TRAIL 1.524 1.524 SIGN RIGHT REGULATORY, NO THRU ROAD 1.639 SIGN LEFT REGULATORY, NO STOPPING ON PAVEMENT 1.688	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.958 0.958 FIRE HYDRANT RIGHT 0.984 0.984 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.040 1.052 GUARD/GUIDE RAIL RIGHT 1.050 1.061 GUARD/GUIDE RAIL LEFT 1.416 1.416 INTERSECTION LEFT 1.438 SIGN RIGHT GUIDE, INFORMATION CAMPGROUND 1.448 1.468 SIGN RIGHT REGULATORY, PARK CLOSED AT DARK 1.468 1.468 SIGN RIGHT REGULATORY, PARK CLOSED AT DARK 1.487 1.487 INTERSECTION RIGHT REGULATORY, PARK CLOSED AT DARK 1.502 1.502 SIGN RIGHT REGULATORY, FRONT END PARKING ONLY 1.502 1.502 SIGN LEFT GUIDE, DOGWOOD NATURE TRAIL 1.502 1.502 SIGN RIGHT REGULATORY, NO THRU ROAD 1.639 SIGN RIGHT REGULATORY, NO STOPPING ON PAVEMENT 1.688 1.688 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.	0.941	0.941	SIGN	RIGHT	GUIDE, SWEETGUM PICNIC AREA
0.984	0.941	0.941	SIGN	LEFT	GUIDE, SWEETGUM PICNIC AREA
1.040	0.958	0.958	FIRE HYDRANT	RIGHT	
1.050	0.984	0.984	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.416	1.040	1.052	GUARD/GUIDE RAIL	RIGHT	
1.438	1.050	1.061	GUARD/GUIDE RAIL	LEFT	
1.468 1.468 SIGN RIGHT REGULATORY, PARK CLOSED AT DARK 1.468 1.468 SIGN RIGHT REGULATORY, FRONT END PARKING ONLY 1.487 1.487 INTERSECTION RIGHT ROUTE 0903 (DOGWOOD NATURE TRAIL PARKING) 1.502 1.502 SIGN LEFT GUIDE, DOGWOOD NATURE TRAIL 1.502 1.502 SIGN RIGHT GUIDE, DOGWOOD NATURE TRAIL 1.524 1.524 SIGN RIGHT REGULATORY, NO THRU ROAD 1.639 1.639 SIGN LEFT REGULATORY, NO STOPPING ON PAVEMENT 1.688 1.688 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT LEFT REGULATORY, NO PARKING ON GRASS 1.938 1.980 GUARD/GUIDE RAIL RIGHT RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.263 <	1.416	1.416	INTERSECTION	LEFT	ROUTE 0011 (PARK CENTRAL ROAD)
1.468	1.438	1.438	SIGN	RIGHT	GUIDE, INFORMATION CAMPGROUND
1.487 INTERSECTION RIGHT ROUTE 0903 (DOGWOOD NATURE TRAIL PARKING) 1.502 1.502 SIGN LEFT GUIDE, DOGWOOD NATURE TRAIL 1.502 1.502 SIGN RIGHT GUIDE, DOGWOOD NATURE TRAIL 1.524 1.524 SIGN RIGHT REGULATORY, NO THRU ROAD 1.639 1.639 SIGN LEFT REGULATORY, NO STOPPING ON PAVEMENT 1.688 1.688 SIGN LEFT REGULATORY, NO PARKING OR DRIVING ON GRASS 1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT LEFT REGULATORY, NO PARKING ON GRASS 1.938 1.980 GUARD/GUIDE RAIL LEFT GUIDE, TO HORSE TRAIL 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.289 1.289 INTERSECTION RIGHT ROUTE 0012 (CAMPG	1.468	1.468	SIGN	RIGHT	REGULATORY, PARK CLOSED AT DARK
1.502 1.502 SIGN LEFT GUIDE, DOGWOOD NATURE TRAIL 1.502 1.502 SIGN RIGHT GUIDE, DOGWOOD NATURE TRAIL 1.524 1.524 SIGN RIGHT REGULATORY, NO THRU ROAD 1.639 1.639 SIGN LEFT REGULATORY, NO STOPPING ON PAVEMENT 1.688 1.688 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT REGULATORY, NO PARKING ON GRASS 1.938 1.980 GUARD/GUIDE RAIL RIGHT RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.229 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT ROUTE OI12 (CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE OI12 (CAMPGROUND ACCESS) 2.299 2.299 SIGN N/A <td< td=""><td>1.468</td><td>1.468</td><td>SIGN</td><td>RIGHT</td><td>REGULATORY, FRONT END PARKING ONLY</td></td<>	1.468	1.468	SIGN	RIGHT	REGULATORY, FRONT END PARKING ONLY
1.502 1.502 SIGN RIGHT GUIDE, DOGWOOD NATURE TRAIL 1.524 1.524 SIGN RIGHT REGULATORY, NO THRU ROAD 1.639 1.639 SIGN LEFT REGULATORY, NO STOPPING ON PAVEMENT 1.688 1.688 SIGN LEFT REGULATORY, NO PARKING OR DRIVING ON GRASS 1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.299 2.299 SIGN N/A <td>1.487</td> <td>1.487</td> <td>INTERSECTION</td> <td>RIGHT</td> <td>ROUTE 0903 (DOGWOOD NATURE TRAIL PARKING)</td>	1.487	1.487	INTERSECTION	RIGHT	ROUTE 0903 (DOGWOOD NATURE TRAIL PARKING)
1.524 1.524 SIGN RIGHT REGULATORY, NO THRU ROAD 1.639 1.639 SIGN LEFT REGULATORY, NO STOPPING ON PAVEMENT 1.688 1.688 SIGN LEFT REGULATORY, NO PARKING OR DRIVING ON GRASS 1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT 1.938 1.980 GUARD/GUIDE RAIL RIGHT 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 1NTERSECTION <td< td=""><td>1.502</td><td>1.502</td><td>SIGN</td><td>LEFT</td><td>GUIDE, DOGWOOD NATURE TRAIL</td></td<>	1.502	1.502	SIGN	LEFT	GUIDE, DOGWOOD NATURE TRAIL
1.639 1.639 SIGN LEFT REGULATORY, NO STOPPING ON PAVEMENT 1.688 1.688 SIGN LEFT REGULATORY, NO PARKING OR DRIVING ON GRASS 1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT 1.938 1.980 GUARD/GUIDE RAIL RIGHT 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 1.71ERSECTION N/A DEAD END (GATED TRAIL	1.502	1.502	SIGN	RIGHT	GUIDE, DOGWOOD NATURE TRAIL
1.688 1.688 SIGN LEFT REGULATORY, NO PARKING OR DRIVING ON GRASS 1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT LEFT 1.938 1.980 GUARD/GUIDE RAIL RIGHT 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	1.524	1.524	SIGN	RIGHT	REGULATORY, NO THRU ROAD
1.802 1.802 SIGN LEFT REGULATORY, NO PARKING ON GRASS 1.935 1.980 GUARD/GUIDE RAIL LEFT 1.938 1.980 GUARD/GUIDE RAIL RIGHT 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	1.639	1.639	SIGN	LEFT	REGULATORY, NO STOPPING ON PAVEMENT
1.935 1.980 GUARD/GUIDE RAIL LEFT 1.938 1.980 GUARD/GUIDE RAIL RIGHT 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 1NTERSECTION N/A DEAD END (GATED TRAIL)	1.688	1.688	SIGN	LEFT	REGULATORY, NO PARKING OR DRIVING ON GRASS
1.938 1.980 GUARD/GUIDE RAIL RIGHT 2.009 2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	1.802	1.802	SIGN	LEFT	REGULATORY, NO PARKING ON GRASS
2.009 SIGN LEFT GUIDE, TO HORSE TRAIL 2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	1.935	1.980	GUARD/GUIDE RAIL	LEFT	
2.228 2.228 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	1.938	1.980	GUARD/GUIDE RAIL	RIGHT	
2.230 2.230 SIGN RIGHT WARNING, DEAD END 2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	2.009	2.009	SIGN	LEFT	GUIDE, TO HORSE TRAIL
2.263 2.263 SIGN RIGHT GUIDE, CAMPGROUND INFO. STATION 2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	2.228	2.228	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.289 2.289 INTERSECTION RIGHT ROUTE 0012 (CAMPGROUND ACCESS) 2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	2.230	2.230	SIGN	RIGHT	WARNING, DEAD END
2.299 2.299 GATE N/A 2.299 2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	2.263	2.263	SIGN	RIGHT	GUIDE, CAMPGROUND INFO. STATION
2.299 SIGN N/A REGULATORY, UNABLE TO READ FROM VIDEO 2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	2.289	2.289	INTERSECTION	RIGHT	ROUTE 0012 (CAMPGROUND ACCESS)
2.299 SIGN N/A REGULATORY, NO PARKING 2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	2.299	2.299	GATE	N/A	
2.300 2.300 INTERSECTION N/A DEAD END (GATED TRAIL)	2.299	2.299	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
	2.299	2.299	SIGN	N/A	REGULATORY, NO PARKING
2.300 2.300 ROUTE END N/A TO END OF PAVEMENT PAST ROUTE 0012 ON RIGHT	2.300	2.300	INTERSECTION	N/A	DEAD END (GATED TRAIL)
	2.300	2.300	ROUTE END	N/A	TO END OF PAVEMENT PAST ROUTE 0012 ON RIGHT

ROUTE 0012: CAMPGROUND ACCESS

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FROM	TO MILEPOST			COMMENTE.
MILEPOST 0.000	0.000	ROUTE BEGIN	SIDE N/A	FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 2.29 (ON RIGHT)
0.000	0.000	SIGN	N/A	GUIDE, PARK EXIT
0.000	0.000	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0011 (PARK CENTRAL ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (PARK CENTRAL ROAD)
0.008	0.008	SIGN	RIGHT	REGULATORY, STOP
0.008	0.008	SIGN	RIGHT	REGULATORY, BUCKLE UP IT'S THE LAW
0.031	0.031	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.064	0.064	INTERSECTION	RIGHT	ROUTE 0904 (RANGER STATION PARKING)
0.071	0.071	FIRE HYDRANT	RIGHT	
0.071	0.071	SIGN	LEFT	GUIDE, RANGER STATION
0.071	0.071	SIGN	RIGHT	GUIDE, RANGER STATION
0.082	0.082	INTERSECTION	RIGHT	ROUTE 0904 (RANGER STATION PARKING)
0.087	0.087	SIGN	RIGHT	GUIDE, RV CAMPERS 30 FT AND OVER D-LOOP PARKING ONLY
0.104	0.104	SIGN	LEFT	GUIDE, U.S. FEE AREA
0.104	0.104	SIGN	LEFT	REGULATORY, STOP
0.104	0.104	SIGN	RIGHT	REGULATORY, STOP
0.105	0.105	SIGN	RIGHT	GUIDE, U.S. FEE AREA
0.105	0.105	SIGN	RIGHT	REGULATORY, STOP
0.106	0.106	SIGN	LEFT	REGULATORY, STOP
0.111	0.111	SIGN	RIGHT	GUIDE, SELF REGISTRATION MATERIALS ON BULLETIN BOARD
0.121	0.121	INTERSECTION	LEFT	ROUTE 0501 (GREENBELT CAMPGROUND LOOP B)
0.121	0.121	INTERSECTION	RIGHT	ROUTE 0500 (GREENBELT CAMPGROUND LOOP A)
0.127	0.127	SIGN	LEFT	GUIDE, VERIZON
0.127	0.127	SIGN	RIGHT	GUIDE, VERIZON
0.138	0.138	SIGN	RIGHT	GUIDE, DUMP STATION C & D LOOPS
0.144	0.144	SIGN	RIGHT	GUIDE, CAMPFIRE CIRCLE
0.169	0.169	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.169	0.169	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT

ROUTE 0012: CAMPGROUND ACCESS

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TO MILEPOST	FEATURE	SIDE	COMMENT
0.169	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.172	SIGN	RIGHT	GUIDE, BLUEBERRY NATURE TRAIL
0.172	SIGN	LEFT	GUIDE, BLUEBERRY NATURE TRAIL
0.269	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.281	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.292	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.354	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.411	SIGN	RIGHT	REGULATORY, NO PARKING FIRE ROAD
0.463	GUARD/GUIDE RAIL	LEFT	
0.462	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.493	GUARD/GUIDE RAIL	LEFT	
0.496	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.520	INTERSECTION	LEFT	ROUTE 0503 (GREENBELT CAMPGROUND LOOP D)
0.520	INTERSECTION	RIGHT	ROUTE 0502 (GREENBELT CAMPGROUND LOOP C)
0.520	SIGN	RIGHT	GUIDE, LOOP C D
0.520	SIGN	RIGHT	REGULATORY, YIELD
0.520	ROUTE END	N/A	TO INTERSECTION OF ROUTE 0502 AND ROUTE 0503
	0.169 0.172 0.172 0.269 0.281 0.292 0.354 0.411 0.463 0.462 0.493 0.496 0.520 0.520 0.520 0.520	MILEPOST FEATURE 0.169 SIGN 0.172 SIGN 0.172 SIGN 0.269 SIGN 0.281 SIGN 0.292 SIGN 0.354 SIGN 0.411 SIGN 0.463 GUARD/GUIDE RAIL 0.462 SIGN 0.493 GUARD/GUIDE RAIL 0.496 SIGN 0.520 INTERSECTION 0.520 SIGN 0.520 SIGN	MILEPOST FEATURE SIDE 0.169 SIGN RIGHT 0.172 SIGN RIGHT 0.269 SIGN RIGHT 0.281 SIGN RIGHT 0.292 SIGN RIGHT 0.354 SIGN RIGHT 0.411 SIGN RIGHT 0.463 GUARD/GUIDE RAIL LEFT 0.462 SIGN RIGHT 0.493 GUARD/GUIDE RAIL LEFT 0.496 SIGN RIGHT 0.520 INTERSECTION LEFT 0.520 SIGN RIGHT 0.520 SIGN RIGHT 0.520 SIGN RIGHT

ROUTE 0200: SWEETGUM PICNIC LOOP

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0.000 ROUTE BEGIN N/A FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.94 (ON LEFT) 0.000 0.000 INTERSECTION LEFT ROUTE 0011 (PARK CENTRAL ROAD) 0.000 0.000 INTERSECTION RIGHT ROUTE 0011 (PARK CENTRAL ROAD) 0.003 0.003 SIGN RIGHT ROUTE 0011 (PARK CENTRAL ROAD) 0.004 0.006 GATE N/A 0.007 0.007 SIGN RIGHT GUIDE, AZALEA NATURE TRAIL 0.022 SIGN RIGHT REGULATORY, UNABLE TO READ FROM VIDEO 0.023 0.023 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO 0.024 0.210 ONE-WAY N/A N/A 0.026 0.210 ONE-WAY N/A N/A 0.029 SIGN LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 SIGN LEFT GUIDE, NO ALRGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 TABLES	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000 INTERSECTION RIGHT ROUTE 0011 (PARK CENTRAL ROAD) 0.003 0.003 SIGN RIGHT REGULATORY, STOP 0.006 0.006 GATE N/A 0.022 0.022 SIGN RIGHT GUIDE, AZALEA NATURE TRAIL 0.022 0.022 SIGN RIGHT REGULATORY, UNABLE TO READ FROM VIDEO 0.023 0.023 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO 0.026 0.210 ONE-WAY N/A 0.026 0.210 ONE-WAY N/A 0.029 SIGN LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 O.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 O.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CAR: IN PARK 0.030 O.030 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CAR: IN PARK 0.033 O.033 SIGN LEFT REGULATORY, WRONG WAY 0.049 SIGN LEFT REGULATORY, WRONG WAY	0.000	0.000	ROUTE BEGIN	N/A	
0.003 0.003 SIGN RIGHT REGULATORY, STOP 0.006 0.006 GATE N/A 0.022 0.022 SIGN RIGHT GUIDE, AZALEA NATURE TRAIL 0.022 0.022 SIGN RIGHT REGULATORY, UNABLE TO READ FROM VIDEO 0.023 0.023 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO 0.026 0.210 ONE-WAY N/A 0.026 0.026 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CAR: IN PARK 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CAR: IN PARK 0.030 0.030 SIGN LEFT REGULATORY, WRONG WAY 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.072 INTERSECTION RIGHT ROUTE 0907B	0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (PARK CENTRAL ROAD)
0.006 0.006 GATE N/A 0.022 0.022 SIGN RIGHT GUIDE, AZALEA NATURE TRAIL. 0.022 0.022 SIGN RIGHT REGULATORY, UNABLE TO READ FROM VIDEO 0.023 0.023 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO 0.026 0.0210 ONE-WAY N/A 0.026 0.026 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARS 0.030 D.030 SIGN LEFT GUIDE, NO LARGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 0.031 D.032 SIGN LEFT REGULATORY, WRONG WAY 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 SIGN RIGHT ROUTE 0907B	0.000	0.000	INTERSECTION	RIGHT	ROUTE 0011 (PARK CENTRAL ROAD)
0.022 0.022 SIGN RIGHT GUIDE, AZALEA NATURE TRAIL 0.022 0.022 SIGN RIGHT REGULATORY, UNABLE TO READ FROM VIDEO 0.023 0.023 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO 0.026 0.210 ONE-WAY N/A 0.026 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARS 0.030 0.030 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARS 0.031 0.032 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARS 0.033 0.034 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN RIGHT REGULATORY, WRONG WAY	0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.022 0.022 SIGN RIGHT REGULATORY, UNABLE TO READ FROM VIDEO 0.023 0.023 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO 0.026 0.210 ONE-WAY N/A 0.026 0.026 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CAR: IN PARK 0.030 0.030 SIGN LEFT GUIDE, NO LARGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 TABLES 25 PEOPLE 0.033 0.033 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN RIGHT REGULATORY, WRONG WAY 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 INTERSECTION LEFT ROUTE 0907BZ (SWEET GUM PICNIC PARKING C)<	0.006	0.006	GATE	N/A	
0.023 0.023 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO 0.026 0.210 ONE-WAY N/A 0.026 0.026 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARSIN PARK 0.030 0.030 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARSIN PARK 0.033 0.030 SIGN LEFT REGULATORY, WOWASHING POLISHING OR REPAIRING CARSIN PARK 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 0.168 INTERSECTION <td>0.022</td> <td>0.022</td> <td>SIGN</td> <td>RIGHT</td> <td>GUIDE, AZALEA NATURE TRAIL</td>	0.022	0.022	SIGN	RIGHT	GUIDE, AZALEA NATURE TRAIL
0.026 0.210 ONE-WAY N/A 0.026 0.026 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARSIN PARK 0.030 0.030 SIGN LEFT GUIDE, NO LARGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 TABLES 25 PEOPLE 0.033 0.033 SIGN LEFT REGULATORY, WRONG WAY 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 O.049 SIGN RIGHT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907AZ (SWEET GUM PICNIC PARKING C) 0.168 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 INTERSECTION RIGHT ROUTE 0907CZ (SWEET GUM PICNIC LOOP) </td <td>0.022</td> <td>0.022</td> <td>SIGN</td> <td>RIGHT</td> <td>REGULATORY, UNABLE TO READ FROM VIDEO</td>	0.022	0.022	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.026 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.029 0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARSIN PARK 0.030 0.030 SIGN LEFT GUIDE, NO LARGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 TABLES 25 PEOPLE 0.033 0.033 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907AZ (SWEET GUM PICNIC PARKING A) 0.102 0.144 CURB-AND-GUTTER RIGHT 0.168 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 INTERSECTION RIGHT ROUTE 0907DZ (SWEET GUM PICNIC PARKING D) 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PIC	0.023	0.023	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.029 SIGN LEFT REGULATORY, PARK CLOSES AT DARK 0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARSIN PARK 0.030 0.030 SIGN LEFT GUIDE, NO LARGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 TABLES 25 PEOPLE 0.033 0.033 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907AZ (SWEET GUM PICNIC PARKING A) 0.102 0.144 CURB-AND-GUTTER RIGHT 0.168 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 INTERSECTION RIGHT ROUTE 0907DZ (SWEET GUM PICNIC PARKING D) 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 INTERSECTION N/A ROUTE 0200 (SWEETGUM PICNIC LOOP)	0.026	0.210	ONE-WAY	N/A	
0.029 0.029 SIGN LEFT GUIDE, NO ALCOHOL DOGS MUST BE LEASHED 0.029 0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARSIN PARK 0.030 0.030 SIGN LEFT GUIDE, NO LARGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 0.033 0.033 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN RIGHT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907AZ (SWEET GUM PICNIC PARKING A) 0.102 0.144 CURB-AND-GUTTER RIGHT 0.168 0.168 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 0.168 INTERSECTION RIGHT ROUTE 0907DZ (SWEET GUM PICNIC PARKING D) 0.210 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 SIGN LEFT GUIDE, AZALEA NATURE TRAIL	0.026	0.026	INTERSECTION	LEFT	ROUTE 0200 (SWEETGUM PICNIC LOOP)
0.029 SIGN LEFT REGULATORY, NO WASHING POLISHING OR REPAIRING CARSIN PARK 0.030 0.030 SIGN LEFT GUIDE, NO LARGE GROUPS PLEASE LIMIT GROUP SIZE TO 2 TABLES 25 PEOPLE 0.033 0.033 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN LEFT REGULATORY, WRONG WAY 0.049 0.049 SIGN RIGHT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907AZ (SWEET GUM PICNIC PARKING A) 0.102 0.144 CURB-AND-GUTTER RIGHT 0.168 0.168 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 0.168 INTERSECTION RIGHT ROUTE 0907DZ (SWEET GUM PICNIC PARKING D) 0.210 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC PARKING D) 0.210 0.210 SIGN LEFT GUIDE, AZALEA NATURE TRAIL	0.029	0.029	SIGN	LEFT	REGULATORY, PARK CLOSES AT DARK
IN PARK	0.029	0.029	SIGN	LEFT	GUIDE, NO ALCOHOL DOGS MUST BE LEASHED
TABLES 25 PEOPLE	0.029	0.029	SIGN	LEFT	REGULATORY, NO WASHING POLISHING OR REPAIRING CARS IN PARK
0.049 0.049 SIGN RIGHT REGULATORY, WRONG WAY 0.049 0.049 SIGN RIGHT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907AZ (SWEET GUM PICNIC PARKING A) 0.102 0.144 CURB-AND-GUTTER RIGHT 0.168 0.168 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 0.168 INTERSECTION RIGHT ROUTE 0907DZ (SWEET GUM PICNIC PARKING D) 0.210 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 INTERSECTION N/A ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 SIGN LEFT GUIDE, AZALEA NATURE TRAIL	0.030	0.030	SIGN	LEFT	
0.049 0.049 SIGN RIGHT REGULATORY, WRONG WAY 0.072 0.072 INTERSECTION RIGHT ROUTE 0907BZ (SWEET GUM PICNIC PARKING B) 0.072 0.072 INTERSECTION LEFT ROUTE 0907AZ (SWEET GUM PICNIC PARKING A) 0.102 0.144 CURB-AND-GUTTER RIGHT 0.168 0.168 INTERSECTION LEFT ROUTE 0907CZ (SWEET GUM PICNIC PARKING C) 0.168 0.168 INTERSECTION RIGHT ROUTE 0907DZ (SWEET GUM PICNIC PARKING D) 0.210 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 INTERSECTION N/A ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 SIGN LEFT GUIDE, AZALEA NATURE TRAIL	0.033	0.033	SIGN	LEFT	REGULATORY, WRONG WAY
0.072INTERSECTIONRIGHTROUTE 0907BZ (SWEET GUM PICNIC PARKING B)0.0720.072INTERSECTIONLEFTROUTE 0907AZ (SWEET GUM PICNIC PARKING A)0.1020.144CURB-AND-GUTTERRIGHT0.1680.168INTERSECTIONLEFTROUTE 0907CZ (SWEET GUM PICNIC PARKING C)0.1680.168INTERSECTIONRIGHTROUTE 0907DZ (SWEET GUM PICNIC PARKING D)0.2100.210INTERSECTIONLEFTROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210INTERSECTIONN/AROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210SIGNLEFTGUIDE, AZALEA NATURE TRAIL	0.049	0.049	SIGN	LEFT	REGULATORY, WRONG WAY
0.0720.072INTERSECTIONLEFTROUTE 0907AZ (SWEET GUM PICNIC PARKING A)0.1020.144CURB-AND-GUTTERRIGHT0.1680.168INTERSECTIONLEFTROUTE 0907CZ (SWEET GUM PICNIC PARKING C)0.1680.168INTERSECTIONRIGHTROUTE 0907DZ (SWEET GUM PICNIC PARKING D)0.2100.210INTERSECTIONLEFTROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210INTERSECTIONN/AROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210SIGNLEFTGUIDE, AZALEA NATURE TRAIL	0.049	0.049	SIGN	RIGHT	REGULATORY, WRONG WAY
0.1020.144CURB-AND-GUTTERRIGHT0.1680.168INTERSECTIONLEFTROUTE 0907CZ (SWEET GUM PICNIC PARKING C)0.1680.168INTERSECTIONRIGHTROUTE 0907DZ (SWEET GUM PICNIC PARKING D)0.2100.210INTERSECTIONLEFTROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210INTERSECTIONN/AROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210SIGNLEFTGUIDE, AZALEA NATURE TRAIL	0.072	0.072	INTERSECTION	RIGHT	ROUTE 0907BZ (SWEET GUM PICNIC PARKING B)
0.1680.168INTERSECTIONLEFTROUTE 0907CZ (SWEET GUM PICNIC PARKING C)0.1680.168INTERSECTIONRIGHTROUTE 0907DZ (SWEET GUM PICNIC PARKING D)0.2100.210INTERSECTIONLEFTROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210INTERSECTIONN/AROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210SIGNLEFTGUIDE, AZALEA NATURE TRAIL	0.072	0.072	INTERSECTION	LEFT	ROUTE 0907AZ (SWEET GUM PICNIC PARKING A)
0.168 0.168 INTERSECTION RIGHT ROUTE 0907DZ (SWEET GUM PICNIC PARKING D) 0.210 0.210 INTERSECTION LEFT ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 INTERSECTION N/A ROUTE 0200 (SWEETGUM PICNIC LOOP) 0.210 0.210 SIGN LEFT GUIDE, AZALEA NATURE TRAIL	0.102	0.144	CURB-AND-GUTTER	RIGHT	
0.2100.210INTERSECTIONLEFTROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210INTERSECTIONN/AROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210SIGNLEFTGUIDE, AZALEA NATURE TRAIL	0.168	0.168	INTERSECTION	LEFT	ROUTE 0907CZ (SWEET GUM PICNIC PARKING C)
0.2100.210INTERSECTIONN/AROUTE 0200 (SWEETGUM PICNIC LOOP)0.2100.210SIGNLEFTGUIDE, AZALEA NATURE TRAIL	0.168	0.168	INTERSECTION	RIGHT	ROUTE 0907DZ (SWEET GUM PICNIC PARKING D)
0.210 0.210 SIGN LEFT GUIDE, AZALEA NATURE TRAIL	0.210	0.210	INTERSECTION	LEFT	ROUTE 0200 (SWEETGUM PICNIC LOOP)
	0.210	0.210	INTERSECTION	N/A	ROUTE 0200 (SWEETGUM PICNIC LOOP)
0.210 0.210 ROUTE END N/A TO END OF LOOP	0.210	0.210	SIGN	LEFT	GUIDE, AZALEA NATURE TRAIL
	0.210	0.210	ROUTE END	N/A	TO END OF LOOP

ROUTE 0201: LAUREL PICNIC AREA

FROM

TO

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0011 (PARK CENTRAL ROAD) AT MP 0.34 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0011 (PARK CENTRAL ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (PARK CENTRAL ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.009	0.009	SIGN	LEFT	GUIDE, RESERVED PICNIC AREA CLOSED AT DUSK
0.009	0.009	SIGN	LEFT	REGULATORY, NO WASHING POLISHING OR REPAIRING CARS IN PARK
0.010	0.010	GATE	N/A	
0.028	0.028	SIGN	LEFT	GUIDE, AZALEA TRAIL
0.046	0.046	SIGN	RIGHT	GUIDE, AZALEA TRAIL
0.104	0.123	CURB-AND-GUTTER	RIGHT	
0.108	0.108	INTERSECTION	LEFT	ROUTE 0201 (LAUREL PICNIC AREA)
0.108	0.270	ONE-WAY	N/A	
0.112	0.112	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.113	0.113	SIGN	LEFT	GUIDE, NO ALCOHOL DOGS MUST BE LEASHED
0.113	0.119	CURB-AND-GUTTER	LEFT	
0.115	0.115	SIGN	LEFT	REGULATORY, ONE WAY
0.147	0.147	INTERSECTION	LEFT	ROUTE 0908AZ (LAUREL PICNIC AREA PARKING A)
0.147	0.147	INTERSECTION	RIGHT	ROUTE 0908BZ (LAUREL PICNIC AREA PARKING B)
0.167	0.195	CURB-AND-GUTTER	RIGHT	
0.170	0.195	CURB-AND-GUTTER	LEFT	
0.227	0.227	INTERSECTION	LEFT	ROUTE 0908CZ (LAUREL PICNIC AREA PARKING C)
0.227	0.227	INTERSECTION	RIGHT	ROUTE 0908DZ (LAUREL PICNIC AREA PARKING D)
0.246	0.270	CURB-AND-GUTTER	RIGHT	
0.251	0.268	CURB-AND-GUTTER	LEFT	
0.270	0.270	INTERSECTION	LEFT	ROUTE 0201 (LAUREL PICNIC AREA)
0.270	0.270	INTERSECTION	RIGHT	ROUTE 0201 (LAUREL PICNIC AREA)
0.270	0.270	ROUTE END	N/A	TO END OF LOOP

ROUTE 0400: MAINTENANCE AREA ACCESS

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (MAIN ENTRANCE ROAD) AT MP 0.12 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (MAIN ENTRANCE ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (MAIN ENTRANCE ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.004	0.004	SIGN	RIGHT	REGULATORY, BUCKLE UP IT'S THE LAW
0.006	0.023	GUARD/GUIDE RAIL	LEFT	
0.011	0.011	INTERSECTION	RIGHT	ROUTE 0906 (PARK HEADQUARTERS PARKING)
0.016	0.016	SIGN	RIGHT	GUIDE, RECEIVING
0.016	0.016	SIGN	RIGHT	REGULATORY, SERVICE VEHICLES ONLY
0.036	0.040	GUARD/GUIDE RAIL	LEFT	
0.040	0.040	GATE	N/A	
0.040	0.040	SIGN	RIGHT	REGULATORY, STOP
0.040	0.040	SIGN	RIGHT	REGULATORY, SPEED LIMIT 5
0.040	0.040	INTERSECTION	N/A	ROUTE 0910 (GREENBELT MAINTENANCE AREA)
0.040	0.040	ROUTE END	N/A	TO ROUTE 0910 (GREENBELT MAINTENANCE AREA)

ROUTE 0500: GREENBELT CAMPGROUND LOOP A

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.12 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0012 (CAMPGROUND ACCESS)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0012 (CAMPGROUND ACCESS)
0.004	0.004	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.004	0.004	SIGN	LEFT	GUIDE, RESERVED AREA SCOUTS ONLY
0.004	0.004	SIGN	LEFT	GUIDE, A LOOP
0.006	0.006	INTERSECTION	RIGHT	ROUTE 0911 (RANGER CAMPGROUND PARKING)
0.011	0.011	SIGN	LEFT	GUIDE, CAMPGROUND HOST
0.018	0.018	INTERSECTION	LEFT	ROUTE 0500 (GREENBELT CAMPGROUND LOOP A)
0.018	0.290	ONE-WAY	N/A	
0.022	0.022	SIGN	LEFT	REGULATORY, ONE WAY
0.024	0.024	GATE	N/A	
0.220	0.220	SIGN	LEFT	GUIDE, NO DISH WASHING
0.285	0.285	GATE	N/A	
0.290	0.290	INTERSECTION	LEFT	ROUTE 0500 (GREENBELT CAMPGROUND LOOP A)
0.290	0.290	INTERSECTION	RIGHT	ROUTE 0500 (GREENBELT CAMPGROUND LOOP A)
0.290	0.290	ROUTE END	N/A	TO END OF LOOP

ROUTE 0501: GREENBELT CAMPGROUND LOOP B

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0012 (CAMPGROUND ACCESS) AT MP 0.12 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0012 (CAMPGROUND ACCESS)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0012 (CAMPGROUND ACCESS)
0.005	0.005	GATE	N/A	
0.008	0.008	SIGN	LEFT	GUIDE, U.S. FEE AREA
0.008	0.008	SIGN	LEFT	REGULATORY, B LOOP
0.016	0.016	INTERSECTION	LEFT	ROUTE 0501 (GREENBELT CAMPGROUND LOOP B)
0.016	0.470	ONE-WAY	N/A	
0.023	0.023	SIGN	LEFT	REGULATORY, ONE WAY
0.024	0.024	SIGN	LEFT	GUIDE, CAMPGROUND HOST
0.243	0.243	SIGN	RIGHT	GUIDE, CAMPFIRE CIRCLE
0.275	0.275	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.305	0.305	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.305	0.305	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.305	0.305	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.321	0.321	SIGN	LEFT	REGULATORY, RESERVED PARKING
0.341	0.341	SIGN	RIGHT	REGULATORY, RESERVED PARKING
0.357	0.357	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
0.434	0.434	SIGN	RIGHT	REGULATORY, NO PARKING FIRE ROAD
0.446	0.446	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.470	0.470	INTERSECTION	N/A	ROUTE 0501 (GREENBELT CAMPGROUND LOOP B)
0.470	0.470	INTERSECTION	RIGHT	ROUTE 0501 (GREENBELT CAMPGROUND LOOP B)
0.470	0.470	ROUTE END	N/A	TO END OF LOOP

ROUTE 0502: GREENBELT CAMPGROUND LOOP C

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT		
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0012 (CAMPGROUND ACCESS) AT END ON RIGHT		
0.000	0.000	INTERSECTION	LEFT	ROUTE 0502 (GREENBELT CAMPGROUND LOOP C)		
0.000	0.000	INTERSECTION	N/A	ROUTE 0503 (GREENBELT CAMPGROUND LOOP D)		
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0012 (CAMPGROUND ACCESS)		
0.000	0.190	ONE-WAY	N/A			
0.006	0.006	SIGN	RIGHT	GUIDE, C LOOP		
0.006	0.006	SIGN	RIGHT	GUIDE, PARK EXIT		
0.007	0.007	GATE	N/A			
0.136	0.136	GATE	N/A			
0.143	0.143	INTERSECTION	RIGHT	ROUTE 0909 (CAMPGROUND DUMPSTATION)		
0.190	0.190	SIGN	RIGHT	REGULATORY, STOP		
0.190	0.190	INTERSECTION	LEFT	ROUTE 0502 (GREENBELT CAMPGROUND LOOP C)		
0.190	0.190	INTERSECTION	RIGHT	ROUTE 0503 (GREENBELT CAMPGROUND LOOP D)		
0.190	0.190	ROUTE END	N/A	TO END OF LOOP		

ROUTE 0503: GREENBELT CAMPGROUND LOOP D

Notice: Culverts and drop inlets were NOT marked by NPS nor inventoried by RIP in Cycle 4, therefore no culverts or drop inlets are reported in any Road Log. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7) and Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0012 (CAMPGROUND ACCESS) AT END ON LEFT
0.000	0.000	INTERSECTION	N/A	ROUTE 0502 (GREENBELT CAMPGROUND LOOP C)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0012 (CAMPGROUND ACCESS)
0.004	0.004	SIGN	LEFT	GUIDE, CAMPFIRE CIRCLE
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.007	0.007	SIGN	RIGHT	GUIDE, D LOOP
0.008	0.008	GATE	N/A	
0.017	0.017	SIGN	RIGHT	REGULATORY, NO PARKING
0.051	0.051	INTERSECTION	LEFT	ROUTE 0504 (GROUP CAMPGROUND)
0.054	0.054	INTERSECTION	LEFT	ROUTE 0503 (GREENBELT CAMPGROUND LOOP D)
0.054	0.500	ONE-WAY	N/A	
0.056	0.056	SIGN	LEFT	REGULATORY, ONE WAY
0.183	0.183	SIGN	LEFT	GUIDE, CAMPGROUND HOST
0.500	0.500	INTERSECTION	LEFT	ROUTE 0503 (GREENBELT CAMPGROUND LOOP D)
0.500	0.500	INTERSECTION	N/A	ROUTE 0503 (GREENBELT CAMPGROUND LOOP D)
0.500	0.500	INTERSECTION	RIGHT	ROUTE 0504 (GROUP CAMPGROUND)
0.500	0.500	ROUTE END	N/A	TO END OF LOOP

Greenbelt Park



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 rating with an index value of 95 or greater

Fair Fair rating with an index value from 61 to 84

Func. Class Funtional 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 = (Total square area WX measured medium severity alligator cracking) / (Section length * WX measured lane width)

% HI = (Total square area WX measured high severity alligator cracking) / (Section length * 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 = (Total linear feet WX measured low severity longitudinal cracking) / (Section length in linear feet)

%MED = (Total linear feet WX measured medium severity longitudinal cracking) / (Section length in linear feet)

%HI = (Total linear feet WX measured high severity longitudinal cracking) / (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 $\leq \frac{1}{4}$ ", or are sealed cracks of indeterminate width whose sealant material is in good condition.

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

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

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 ≥ 0.20 " and ≤ 0.49 ".

Medium severity ruts have an ARAN measured depth ≥ 0.50 " and ≤ 0.99 ".

High severity ruts have an ARAN measured depth ≥ 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 measured Left IRI + ARAN 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

```
\mathbf{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)

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	2.104 meters from front-center rutbar to			
camera	camera			
The ARAN has a lever arm setting which te	ells the POS system where the center of the			

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.

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	Line	park_mrl_04.dbf/.shp/.shx
(not in every park)		
Roads Manually Rated as Polygons	Polygon	park_mrp_04.dbf/.shp/.shx
(not in every park)		

- 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 oppositedirection 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:

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
						100% Referenced to
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	other tables
	GT 4 TT	****				100%, Referenced to
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	other tables (1)
	DADIZ ALDIJA	WWW	Ded of the colo	Desta ID Markins	NIDC D. C	100%, Referenced to
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	other tables 100%, Referenced to
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	other tables
4	FARK_NO	ΛΛΛΛ	Fark numeric code	Route ID Weeting	NFS References	100%, Referenced to
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	other tables
	KIL_IVO))))/AAA	Route number	Route 1D Weeting	Tark input / TTWA Classification	100%, Referenced to
						other tables. 100
6	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	characters fit in field
		(/				100%, Referenced to
7	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input / FHWA Classification	other tables
			Survey lane: PRI (primary) or			
8	DIRECTION	XXX	OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%,
						Estimated before data
9	BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input / FHWA Determination	collected
						Estimated before data
10	END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input / FHWA Determination	collected
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
						100% Referenced to
12	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input / FHWA Determination	other tables
1.0	TO DEGG	(T)		B I B W	D 1 I . (FINIA D	100% Referenced to
13	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input / FHWA Determination	other tables
14	NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
1.5	CLIDE TYPE	3737		ADAND (CIL)		100%, Referenced to
15	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	other tables (1)
			Compass direction of route's			
16	COMP DIR	XX	primary lane (nearest cardinal direction)	Route ID Meeting	Park Input / FHWA Determination	Untested
17	COMP_DIR COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
18	FILENAME	` ′	Filename of raw data files	ARAN Data Collection		100%
18	FILENAME	(Text)	rhename of raw data mes		Automatic Output Survey Crew Input/Automatic	100%
19	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Output Output	100%
19	SECTION	(Text)	Route section ID	Data Collection	Output	10070

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:

				g 0.1.12 GT		EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1	DID CYCLE	3737	4.6.1.11.11.11.11.11	D (IDM)	EINMA D	100% Referenced to
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	other tables
	CT A TE	WW	State of home words in least of	Daniel ID Markins	Park Input / FHWA	H-4-4-1(1)
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested (1) 100% Referenced to
3	DADK ALDHA	XXXX	Dorle alpha anda	Route ID Meeting	NPS References	other tables
3	PARK_ALPHA	ΛΛΛΛ	Park alpha code	Route ID Meeting	NPS References	100% Referenced to
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	other tables
4	FARK_NO	ΛΛΛΛ	Fark numeric code	Route ID Meeting	Park Input / FHWA	100% Referenced to
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	other tables
5	KIE_NO	JJJJAAA	Facility Management	Route ID Meeting	Classification	other tables
			Software System Equipment			
6	FMSS_EQUIP	XXXXXXX	number	NPS FMSS application	NPS References	Untested
	TWISS_EQUI		number	THE THISE application	Park Input / FHWA	100% Referenced to
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	other tables
			Survey lane: PRI (primary)		Park Input / FHWA	
8	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
				ARAN Data		
				Collection/Contractor Post-		
9	MP	999.999 (miles)	Feature location along route	processing	Video Analysis	<=0.001 mile
			Feature Beginning location			
10	BEG_MP	999.999 (miles)	along route	Contractor Post-processing	Video Analysis	<=0.001 mile
			Feature Ending location			
11	END_MP	999.999 (miles)	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
			Event sub-category of			
14	EVENT_CODE	XXXX	feature	Contractor Post-processing	Video Analysis	Untested
			Feature designation:			
15	FEATURE_TYPE	(Text)	LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
1	ELIENT DEGG	(T)	Description of		X7' 1	T
16	EVENT_DESC	(Text)	feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
1.0	GOVIDALIAON	(CNT / A N)	Sign condition. N/A. Not to		X7'1 4 1 '	Values inaccurate,
18	CONDITION	"N/A"	be populated	Contractor Post-processing	Video Analysis	defaulted to "N/A"
19	COMMENT	(T4)	Sign label, intersecting	Contractor Doct	Dotoboso Ducassina	Untested
19	COMMENT	(Text)	route, etc. Offset from Road Edge.	Contractor Post-processing	Database Processing	Values inaccurate,
20	OFFSET	"N/A"	N/A. Not to be populated	Contractor Post-processing	Database Processing	defaulted to "N/A"
20	OFFSEI	1N/A	IN/A. Not to be populated	Contractor Post-processing	Database Processing	uerauneu to IN/A

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
	TIEED	TORMIT	Side of route relative to lane	SOURCE	VILLIDITION	necemiei
21	SIDE	(Text)	driven	Contractor Post-processing	Video Analysis	95%
		, ,	FHWA bridge structure			
22	STR_NUMBER	(Text)	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
			GPS Latitude Co-ordinate			
36	END_GPS_LAT	999.999999	(decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
27	END CDC LON	-999.999999	GPS Longitude Co-ordinate	Control Doct many continu	77' 1 A 1 '.	2.00 5
37	END_GPS_LON END GPS ELEV	9999999	(-decimal degrees) GPS Elevation Feet	Contractor Post-processing	Video Analysis Video Analysis	<= 3.00 feet Untested
-		(Text)	GPS Elevation Feet GPS Satellite Mode	Contractor Post-processing	Video Analysis Video Analysis	Untested
39 40	END_GPS_MODE DATUM	` /		Contractor Post-processing	,	100%
40	DATUM	(Text)	LL_WGS84_DD Removable USB video hard	Contractor Post-processing	Database Processing	100%
41	VIDEO	< <i>Park</i> >C04VID<#>	drive number	Contractor Post-processing	Database Processing	Untested
	, IDEO	T WIND COTTED (II)	Filename of .jpg image	Contractor 1 ost processing	Butuouse 110ccssing	Chrested
42	IMAGE	(Text)	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%
				Route ID Meeting/ARAN	Survey Crew	
45	SECTION	(Text)	Route section ID	Data Collection	Input/Automatic Output	100%
46	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
1.			Raw MP of first video frame			
47	VISI_FROM	999999 (millimiles)	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

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

	LANE					
13	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
24	STATE	GUID, UNKN	FOINT	TROW VIDEO)	-	VIDEO KATINO
25	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
			4, for RIP data collection			100% Referenced to other
1	RIP_CYCLE	XX	Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested. (1)
						100% Referenced to other
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
					Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
					Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	tables
			Survey lane: PRI (primary)		Park Input/FHWA	
7	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
			MP at start of road interval			
	DEC 10	000 000 (11)	described by database			1000/ (2)
8	BEG_MP	999.999 (miles)	record	Contractor Post-processing	Database Processing	100% (3)
			MP at end of road interval			
9	END MP	999.999 (miles)	described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_MF	999.999 (IIIIles)	Length of road interval as	Collitación Fost-processing	Database Flocessing	100% (3)
10	INT_LENGTH	999.9 (ft)	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	_	99	Data collection lane	 	Database Processing	Untested. (1)
13	LANE_NO	99	WiseCrax (crack detection	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	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)		Contractor Post-processing Contractor Post-processing	Video Analysis Video Analysis	95%, <=1.0 foot
-	_	` ′	Full pavement width	1 0	ž	
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)
1.0	CITED COND I	NT/A	N/A. Intended to be Left	ADAND (CIL C		Values inaccurate, defaulted
19	SHLD_COND_L	N/A	shoulder condition	ARAN Data Collection	Survey Crew Input	to "N/A"
20	CHI D COND D	NT/A	N/A. Intended to be Right	AD AN Data Calledian	Comment Comment	Values inaccurate, defaulted
20	SHLD_COND_R	N/A	shoulder condition N/A. Intended to be Left	ARAN Data Collection	Survey Crew Input	to "N/A"
21	DDAIN COND I	NT/A		APAN Data Callaction	Survey Cray Innut	Values inaccurate, defaulted to "N/A"
21	DRAIN_COND_L	N/A	drainage condition N/A. Intended to be Right	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted
22	DRAIN_COND_R	N/A	drainage condition	ARAN Data Collection	Survey Crew Input	to "N/A"
22	DRAIN_COND_R	1 V / <i>F</i> 1	dramage condition	ANAN Data Collection	Survey Crew Input	io IN/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)
			Roughness Condition Index;			
25	RCI	999	-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)
			Average rut depth of both			
33	RUT_AVG	99.99 (inches)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
			Maximum rut depth of both			
34	RUT_MAX	99.99 (inches)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
35	RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (5)
			Percent of low severity ruts			
36	RUT_LOW	999 (%)	(on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
30	KU1_LOW	999 (%)	Percent of medium severity	Contractor Post-processing	Database Processing	Official (3)
			ruts (on a 0-200% scale) in			
37	RUT MED	999 (%)	both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
		222 (12)	Percent of high severity ruts			(2)
			(on a 0-200% scale) in both			
38	RUT_HI	999 (%)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
			Cross fall at start of road			
39	XFALL	999.9 (% slope)	interval	ARAN Data Collection	Automatic Output	Untested
40	GRADE	000 0 (0/ -1)	Grade at start of road	ARAN Data Collection	A damentic O day	TI-4-4-4
40		999.9 (% slope)	interval		Automatic Output	Untested
41	AC_INDEX	999	Alligator cracking index Percent of WiseCrax	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
			measured lane area with			
			low-severity alligator			As a Computed 95%
42	AC LOW	999.9999 (%)	cracking	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)
	_	. ,	Percent of WiseCrax			
			measured lane area with			
			medium-severity alligator			As a Computed 95%
43	AC_MED	999.9999 (%)	cracking	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)
			Percent of WiseCrax			1050
1 4 4	AC III	000 0000 (0/)	measured lane area with	Company of the Dord Company of the C	Design and Wide A and a de	As a Computed 95%
44	AC_HI	999.9999 (%)	high-severity alligator	Contractor Post-processing	Pavement Video Analysis	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 High-severity longitudinal	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
48 49	LC_HI TC_INDEX	999.99 (%) 999	cracking in lane as a percentage of road interval length Transverse cracking index	Contractor Post-processing Contractor Post-processing	Pavement Video Analysis Database Processing	As a Computed 95% Confidence Level (5) (6) 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	< <i>Park</i> >C04VID<#>	Removable USB video hard	Contractor Post-processing	Database Processing	Untested

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

ROUTE_GPS table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						100% referenced to other
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested
	DADIZ ALDILA	VVVV	Dowle alaba and	Danta ID Mastina	NIDC Defenses	100% Referenced to other
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	tables 100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
H	17HKK_110	71777	Tark numeric code	Route 15 Weeting	Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
					Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Classification	tables
						100% Referenced to other
						tables . 100 characters fit in
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	field
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
	DIDECTION	373737	Survey lane: PRI (primary) or	D (ID) (C	Park Input/FHWA	TT 1
9	DIRECTION	XXX	OPP (opposite)	Route ID Meeting	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)
10	IVII	777.777	GPS Latitude Co-ordinate	ARAN Data Collection,	Trocessing	Ontested (3)
11	GPS LAT	999.999999	(decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
	00%_====		GPS Longitude Co-ordinate	ARAN Data Collection,		
12	GPS_LON	-999.999999	(-decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
				ARAN Data Collection,		
13	GPS_ELEV	99999.9	Elevation	Contractor Post-processing	Automatic Output	Untested
			GPS Satellite Mode	ARAN Data Collection,		
14	GPS_MODE	XXX	during collection	Contractor Post-processing	Automatic Output	Untested
			Cross Fall: % Slope at GPS	ADAMB CHI C		
1.5	VEALI	000.0	Location (Caution, Data not	ARAN Data Collection,	Ataati Otat	I Interest of
15	XFALL	999.9	Validated) Grade: % Slope at GPS Location	Contractor Post-processing ARAN Data Collection,	Automatic Output	Untested
16	GRADE	999.9	(Caution, Data not Validated)	Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM		LL_WGS84_DD	ARAN Data Collection ARAN Data Collection	•	_
		(Text)			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			The Park's Alpha Code + "-" +			100%, Reference source for all
1	ROUTE_IDENT	XXXX-9999XXX	RTE_NO (below).	Route ID Meeting	Automatic Output	tables
						100%, Reference source for all
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
						100%, Reference source for all
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	tables
	111111_11111	717171	Tun Tipiu Code	Troute 12 Treeting	THE References	100%, Reference source for all
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
	_		• •	Ĭ i		100%, Reference source for all
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100%, Reference source for all
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	tables
						100%, Reference source for all
7	RTE NO	9999XXX	Route Number	Route ID Meeting	Park Input	tables
$\stackrel{\prime}{-}$	KIL_IIO	<i>,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rode Pullion	Route 1D Weeting	Tuk iiput	100%, Reference source for all
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	tables
	_			Ŭ		100%, Reference source for all
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
						100%, Reference source for all
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
	nyan nyan			ARAN Data		100%, Reference source for all
11	INSP_DATE	MM/DD/YYYY	Collection Date	Collection	FHWA Determination	tables
12	FUNCT_CLASS	XX	Functional Class	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
					<u> </u>	
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
	CE A EEC	3737	Additional State Park Route	D (ID M (D 11 (FINAD : : :	11.4.4.171
14	STATE2	XX	traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
			NPS's Facility Management Software System (FMSS) Asset			100%, Reference source for all
15	FMSS_NO	(Text)	number	Route ID Meeting	Park Input	tables
15	11.100_110	(10At)	FMSS Surface Equipment	Troute ID Miceting	I mix iliput	the state of the s
16	FMSS_SUR_EQP	(Text)	Number	Route ID Meeting	Park Input	Untested
	`	` '	Park Maintenance District Route		1	100%, Reference source for all
17	M_DISTRICT	(Text)	resides in	Route ID Meeting	Park Input	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)
		Posted Speed Limit for Route			
POSTED_SPEED	99	Limit along Route)	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
_					100%, Reference source for all
ARAN_ROUTE	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	tables 100%, Reference source for all
PARKING_AREA	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	tables
CONCESSION	XXX	Yes/No	Route ID Meeting	Park Input	100%, Reference source for all tables
COTTELESSIOTT	717171		ARAN Data	T tak Input	100%, Reference source for all
PAVED_MI	999.999	0.001)	Collection	Automatic Output	tables
UNPAVED_MI	999.999	Unpaved mileage (to the nearest 0.001)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
			Contractor Post-		100%, Reference source for all
RTE_LENGTH	999.999	<u> </u>	processing	Automatic Output	tables
		(concrete), BR (brick/pavers), CB			100%, Reference source for all
SURF_TYPE	XX	(cobblestone), OT (other))	Route ID Meeting	Survey Crew Input	tables (1)
UNPAVED	XXXX	Unpaved Route (Yes/No/Both)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
UNPAVED_CAT	XXX	Unpaved Road Category	Route ID Meeting	Automatic Output	Untested
CLIDD	(T1)		Day to ID Markins	D. I. I (FINVA D. (coming)	Haradad
CURB	(1ext)		Route ID Meeting	Park Input/FHWA Determination	Untested
CURB_GUTTER	(Text)	Gutter around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
					100%, Reference source for all
ADJ_ROUTE	9999XXX	Route number	Route ID Meeting	Automatic Output	tables
USER ACCESS	(Text)	Access Designation for Parking	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
_	, ,	1			100%, Reference source for all
PHOTO_NO	(Text)	Photo or Image	Route ID Meeting	Survey Crew Input	tables
PLOT SIZE	(Text)	Unpayed Parking Area Size	Route ID Meeting	Automatic Output	100%, Reference source for all tables
	(2010)		Contractor Post-	stomate - stylet	100%, Reference source for all
SQ_FEET	999.999	Route Square Footage	processing	Automatic Output	tables
M RATING	(Text)	Manual Rating	Route ID Meeting	Automatic Output	100%, Reference source for all tables
	POSTED_SPEED ARAN_ROUTE PARKING_AREA CONCESSION PAVED_MI UNPAVED_MI RTE_LENGTH SURF_TYPE UNPAVED UNPAVED CURB CURB CURB_GUTTER ADJ_ROUTE USER_ACCESS PHOTO_NO PLOT_SIZE	POSTED_SPEED 99 ARAN_ROUTE XXX PARKING_AREA XXX CONCESSION XXX PAVED_MI 999.999 UNPAVED_MI 999.999 RTE_LENGTH 999.999 SURF_TYPE XX UNPAVED XXXX UNPAVED_CAT XXX CURB (Text) CURB_GUTTER (Text) ADJ_ROUTE 9999XXX USER_ACCESS (Text) PHOTO_NO (Text) PLOT_SIZE (Text) SQ_FEET 999.999	Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN) Posted Speed Limit for Route (Value is Predominate Speed Limit along Route) ARAN_ROUTE XXX Yes/No PARKING_AREA XXX Yes/No CONCESSION XXX Yes/No PAVED_MI 999.999 Paved mileage (to the nearest 0.001) UNPAVED_MI 999.999 Official Route Length Surface type (PAVED: AS (asphalt, includes composite), CO (concrete), BR (brick/pavers), CB (cobblestone), OT (other)) UNPAVED XXXX Unpaved Road Category PARKING_AREA XXX Unpaved Road Category PARKING_AREA WITH Curb and Gutter around perimeter. ADJ_ROUTE 9999XXX Route number USER_ACCESS (Text) Access Designation for Parking PHOTO_NO (Text) Photo or Image PLOT_SIZE (Text) Unpaved Parking Area Size SQ_FEET 999.999 Route Square Footage	Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN) Posted Speed Limit for Route (Value is Predominate Speed Limit along Route) Route ID Meeting ARAN_ROUTE XXX Yes/No Route ID Meeting PARKING_AREA XXX Yes/No Route ID Meeting PARKING_AREA XXX Yes/No Route ID Meeting PAVED_MI 999.999 0.001) Collection UNPAVED_MI 999.999 O.001) Collection UNPAVED_MI 999.999 Official Route Length Processing RTE_LENGTH 999.999 Official Route Length Processing SURF_TYPE XX (cobblestone), OT (other)) Route ID Meeting UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting CURB (Text) Parking Area with Curb around perimeter. Route ID Meeting CURB_GUTTER (Text) Access Designation for Parking Route ID Meeting USER_ACCESS (Text) Access Designation for Parking Route ID Meeting PARKING_AREA XXX Ves/No Route ID Meeting Route ID Meeting	Route (FLAT, ROLLING, MOUNTAINOUS, or URBAN) Posted Speed Limit for Route (Value is Predominate Speed Limit along Route) Route ID Meeting Park Input/FHWA Determination ARAN_ROUTE XXX Yes/No Route ID Meeting Park Input/FHWA Determination ARAN_ROUTE XXX Yes/No Route ID Meeting Park Input/FHWA Determination PARKING_AREA XXX Yes/No Route ID Meeting Park Input/FHWA Determination CONCESSION XXX Yes/No Route ID Meeting Park Input/FHWA Determination PAVED_MI 999.999 Park Input PAVED_MI 999.999 Unpaved mileage (to the nearest Oolection Automatic Output UNPAVED_MI 999.999 Official Route Length Processing Automatic Output RTF_LENGTH 999.999 Official Route Length Processing Automatic Output UNPAVED_MS (asphalt, includes composite), CO (concrete, BR (brick/pavers), CB (cobblestone), OT (other)) ROUTE ID Meeting Survey Crew Input UNPAVED XXXX Unpaved Route (Yes/No/Both) Route ID Meeting Automatic Output UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting Automatic Output UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting Park Input/FHWA Determination CURB_GUTTER (Text) Parking Area with Curb and Gutter around perimeter. Route ID Meeting Park Input/FHWA Determination ADJ_ROUTE 9999XXX Route number Route ID Meeting Park Input/FHWA Determination PHOTO_NO (Text) Photo or Image Route ID Meeting Survey Crew Input PLOT_SIZE (Text) Unpaved Parking Area Size Route ID Meeting Survey Crew Input Contractor Post-processing Survey Crew Input Contractor Post-processing Automatic Output Contractor Post-processing Survey Crew Input PLOT_SIZE (Text) Unpaved Parking Area Size Route ID Meeting Automatic Output Contractor Post-processing Survey Crew Input Automatic Output Contractor Post-processing Automatic Output Contractor Post-processing Automatic Output Contractor Post-processing Automatic Output

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
				Contractor Post-		100%, Reference source for all
37	SQ_YARDS	999.999	Route Square Yardage	processing	Automatic Output	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
39	TAVE_WIDTH	777.77	average)	Kii Tost-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 Co- ordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
52	BEG_LON	-999.999999	Route Begin GPS Longitude Co- ordinate (-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 Co- ordinate (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
			Route Total Length Guard/Guide			
81	GDRAIL_TLNG	9999.999 (ft)	Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Guard/Guide			
82	GDWALL_TLNG	9999.999 (ft)	Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Temporary		1	
83	TEMP_BARR_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Bollard		1	
84	BOLLARD_TLNG	9999.999 (ft)	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
			Route Total Length Curbing			
86	CURB_TLNG	9999.999 (ft)	(excludes Parking Areas)	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Low Water			
87	LWCROSS_TLNG	9999.999 (ft)	Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
						100% Referenced to other tables
88	PAVDITCH_TLNG	9999.999 (ft)	Route Total Length Paved Ditch	RIP Post-processing	Automatic Output	(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
						100% Reference source for all
91	LOCAL_FACTOR	9.9999	Park Location Factor	NPS Partner	Automatic Output	tables
						100% Reference source for all
92	E_ZONE	XXX	Route Environmental Zone	FHWA HPMA	Automatic Output	tables
						100% Reference source for all
93	PAVEMENT_DM	\$99,999,999.99	Pavement Deferred Maintenance	FHWA HPMA	Automatic Output	tables
						100% Reference source for all
94	CRV	\$99,999,999.99	Current Replacement Value	RIP Post-processing	Automatic Output	tables

Database Name: ROUTEINFO.mdb Table Name: PARK_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
	TIEED	TORWITT	EM ECTED VILLEE	BOCKCE	VILLIDITION	100% Referenced to other
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
			,,			100% Referenced to other
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	tables
			•			100% Referenced to other
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	tables
				Route ID Meeting and		1000170
	DIGD DATE		Date that data was collected in the park	ARAN Data		100% Referenced to other
6	INSP_DATE	MM/DD/YYYY	(completion date).	Collection	FHWA Determination	tables
						100% Referenced to other
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	tables
						100% Referenced to other
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	tables
	T DAVED M	000 000	T . 10 10 100	DIDD		100% Referenced to other
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	tables
10	T INDAVED MI	000 000	Tatal Dark Hanner AMTh.	DID Dead and a second	A	100% Referenced to other
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	tables 100% Referenced to other
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	tables
11	1_ROUTE_WILES	777.777	Total Fark Route Willes	Kir rost-processing	Automatic Output	100% Referenced to other
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	tables
12	1_7H7H_DH\VEI\	777.777	Total Lark All All All Dilveir Wiles	Kii Tost processing	Tutomatic Output	100% Referenced to other
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	tables
				1 5	•	100% Referenced to other
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	tables
			Total Park Parking Unpaved Square			100% Referenced to other
17	T_PRK_UNPAVEDSQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
			Total Park Concession Parking Paved			100% Referenced to other
18	T_CPRK_PAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1.0			Total Park Concession Parking Unpaved			100% Referenced to other
19	T_CPRK_UNPAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables
20		000 000		DVD D		100% Referenced to other
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	tables
		000 000	Total Park Parking Equivalent Lane			100% Referenced to other
21	T_PARKING_LMILES	999.999	Miles	RIP Post-processing	Automatic Output	tables
	T 100 000	000 000	Total Park Manually Rated Road Square	DVD D		100% Referenced to other
22	T_MRR_SQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
	T CLODE COFF	000 000	Total Park Concession Manually Rated			100% Referenced to other
23	T_CMRR_SQFT	999.999	Road Square Feet	RIP Post-processing	Automatic Output	tables
			Total Park Manually Rated Road			100% Referenced to other
24	T_MRR_LMILES	999.999	Equivalent Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	tables
				•		100% Referenced to other
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	tables
					•	100% Referenced to other
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	tables
				1 6		100% Referenced to other
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	tables
				· ·	•	
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other

	Elei D	EODMAT	EADECASED AVITUE	COLIDGE	WALIDATION	EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	tables
						tables
						100% Referenced to other
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	tables
12	T PIND ONT	000	T (ID IF H) (C	DIDD		100% Referenced to other
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	tables
44	T OVEDDASS CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
44	T_OVERPASS_CNT	799	Total Fark Overpass Count	Kir rost-processing	Automatic Output	100% Referenced to other
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	tables
7.5	1_C/IDEE_TE/IG)))),)))(It)	Total Length Park Guard/Guide Rail	Kii Tost processing	Tutomatic Output	100% Referenced to other
46	T_GDRAIL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
	1_GDIGINE_1E.VG)))))))(It)	Total Length Park Guard/Guide Wall	Tan Tost processing	Tutomatic output	100% Referenced to other
47	T_GDWALL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
		,			•	100% Referenced to other
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	tables
-2	T DAMBITCH TING	0000 000 (%)	T (11 (1 D 1 D 1 D) (1	DID D		100% Referenced to other
53	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	tables (2)
F 1	T TUDNOUT TING	0000 000 (%)	Total I anoth Doub Turnouts	DID Doot and accions	A to ot - Otot	100% Referenced to other
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	tables 100% Referenced to other
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	tables
33	TARK_I CK	22.77	Overall Lark LCK Ratilig	KII I OSI-PIOCESSIIIg	Automatic Output	100% Referenced to other
56	PARK RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	tables
50	111111_1(0)	,,,,,	O TOTALL I WIN THOLITAINING	Till 1 ost processing	Tutomane Output	100% Referenced to other
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	tables
				F		100% Referenced to other
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	tables
			Overall Park Alligator Cracking Index		•	100% Referenced to other
59	PARK_AC_INDEX	99.99	Rating	RIP Post-processing	Automatic Output	tables

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

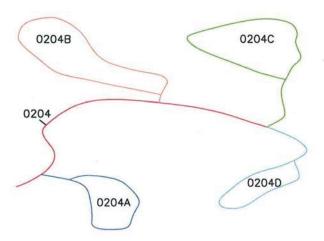


Figure 1: Campground with five routes and five assets

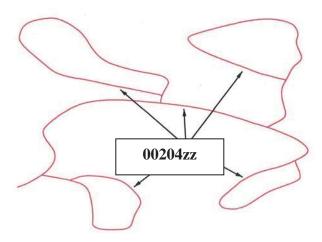


Figure 2: Campground with all loops combined into one route and one asset. This has eliminated four assets.

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.

<u>Public and non-public segments may not be combined.</u> 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.

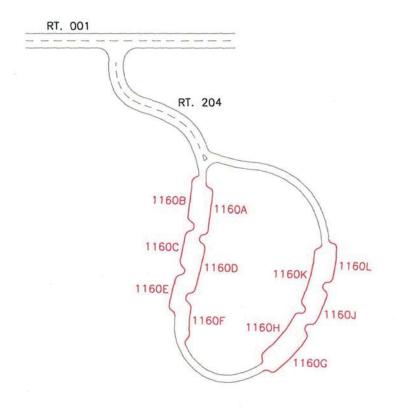


Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets (one 1100 asset and 11 1300 assets).

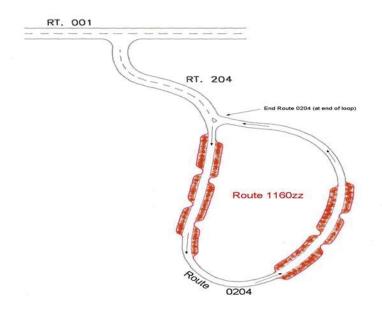


Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

<u>Parking areas and roads may not be combined.</u> 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.

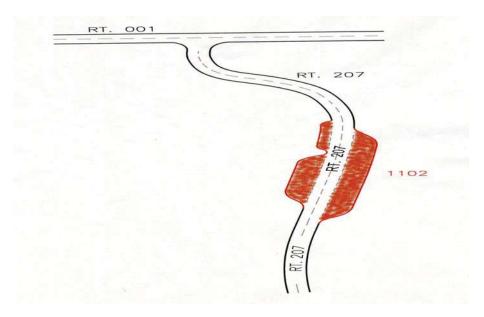


Figure 5: Parking with access route 207 running through and continuing beyond parking 1102. This access route cannot be considered a part of the parking area and two routes and two assets continue to exist.

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.

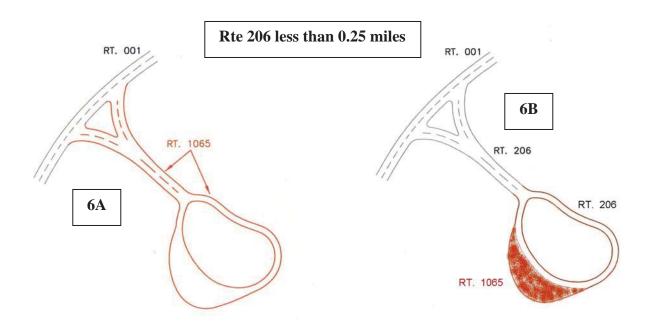


Figure 6: Since the access route is less than .25 miles in length and the only use of the access is to the parking, one route for both the access and the parking area can be established.

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.

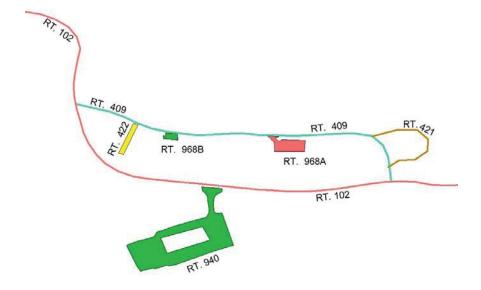


Figure 7 – Current Housing area access configuration. Route 409 is less than 0.25 miles long.

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.

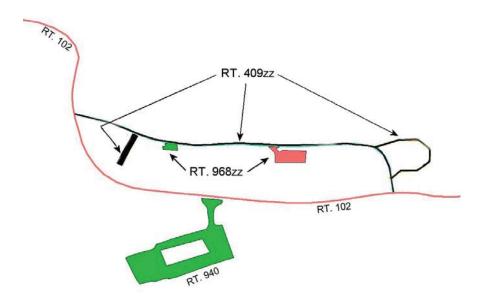


Figure 8 – Combined housing area access configuration – Parking and road assets combined to eliminate 3 assets.