



The Road Inventory of Arches National Park ARCH - 1348



national park service



Road Inventory Program

Prepared By:
Federal Highway Administration
Eastern Federal Lands Highway Division
Cycle 3



Arches National Park in Utah





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INTRODUCTION

Background: In July 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 and short-range costs and programs to bring National Park Service (NPS) roads up to, or to maintain, designated standards, and to 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 re-established in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 data was collected in 44 large parks from 1994 to 1995. 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."

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 the FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

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

RIP Cycle 3: A third RIP cycle was initiated in 2001. Data was collected from March 2001 to July 2004, and is included in the Cycle 3 Reports. Cycle 3 includes 254 large and small parks with a combined total of 5,455 route miles.

In the Cycle 3 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 of 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.

FHWA RIP Coordinator:

James A. Amenta
FHWA/EFLHD
Technical Services, HTS-15
21400 Ridgetop Circle
Sterling, VA 20166
(703) 404-6366

Arches National Park Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	25.51	4/25/2003
Unpaved Estimated Route Miles	27.81	4/25/2003
Paved ARAN and Unpaved Route Miles	53.32	
Paved ARAN Driven Lane Miles	49.09	4/25/2003
Paved MRR Lane Miles	0.00	
Parking Lot Lane Miles	5.77	4/25/2003
Total Paved Lane Miles	54.86	

Notes: Total Paved Lane Miles includes the sum of Paved ARAN Driven Lane Miles, Paved MRR Lane Miles, and Parking Lot Lane Miles

Unpaved Route Miles are estimates, they have not been inventoried by the Roadway Inventory Program (RIP)

Arches National Park Summaries

Cost to Improve to "Excellent" Condition

SOURCE	WORK PERFORMED	COST PER MILE	INITIAL CONDITION
FHWA Awarded Projects	Surface Maintenance	\$30,000	Excellent
FHWA Awarded Projects	3-R (Resurfacing)	\$110,000	Good
FHWA Awarded Projects	3-R (Resurfacing, Restoration, and Rehabilitation) Projects	\$560,000	Fair
FHWA Awarded Projects	4-R (Resurfacing, Restoration, Rehabilitation, and Reconstruction) Projects	\$1,540,000	Poor

Based on the above table, the cost to improve ARAN driven paved road condition miles to "Excellent" PCR are:

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	0.10	\$3,000
Good	0.04	\$4,400
Fair	7.59	\$4,250,400
Poor	17.78	\$27,381,200
Totals	25.51	\$31,639,000

The above numbers include the 35% PE, CE and contingency costs and are national averages. The cost estimates were used in the calculations for the 2004 Reauthorization Bill to determine the level of funding required to bring all the NPS roads into a Pavement Condition Rating (PCR) of Good (85).

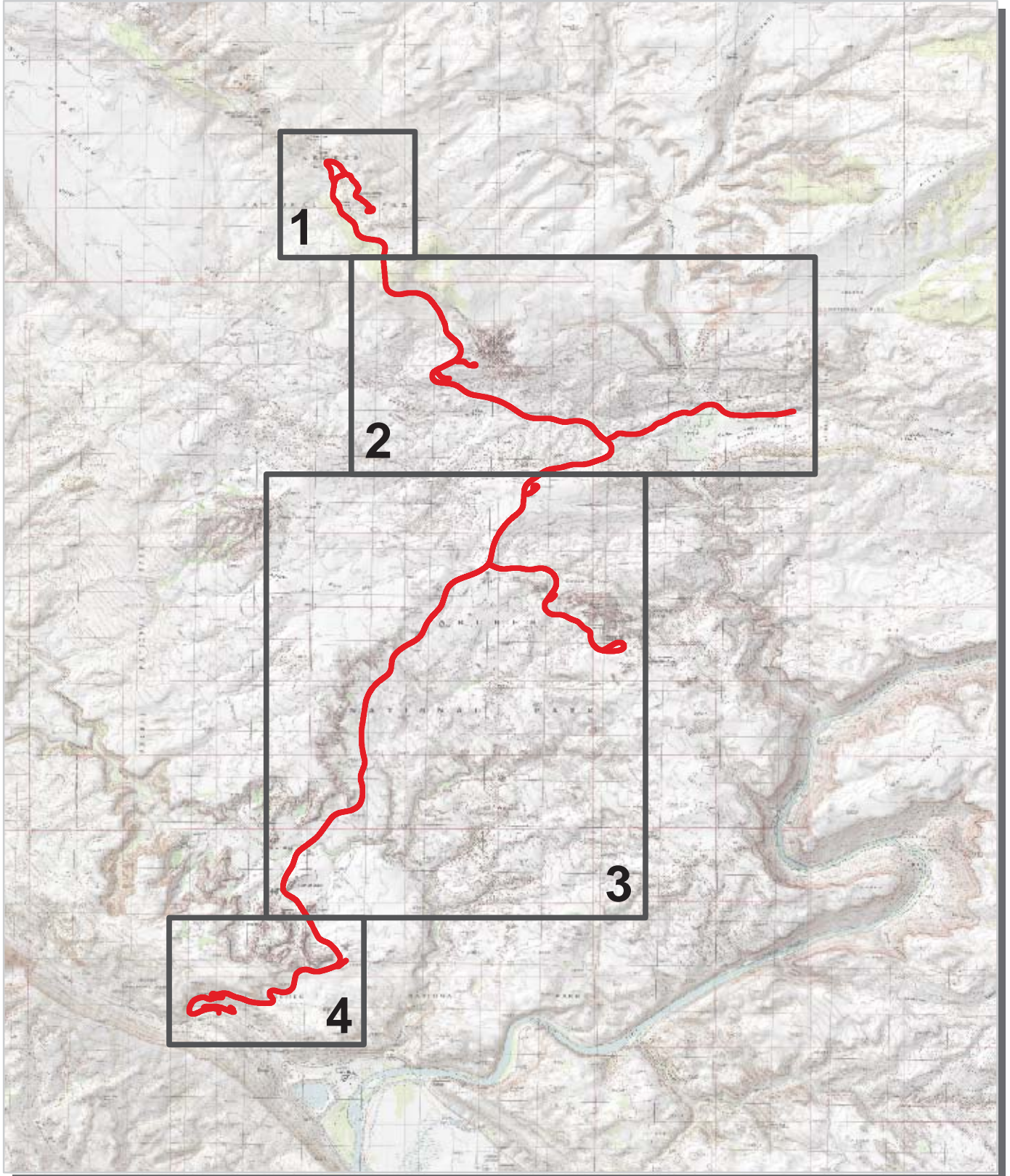
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Arches National Park Summaries

Paved Route Miles and Percentages by Functional Class and PCR for ARAN Driven Paved Roads

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	15.65	61.35%	7.32	28.69%	0.04	0.16%	0.10	0.39%	23.11
2	0.86	3.37%	0.27	1.06%					1.13
3	0.78	3.06%							0.78
4	0.49	1.92%							0.49
5									
6									
7									
8									
Totals	17.78	69.70%	7.59	29.75%	0.04	0.16%	0.10	0.39%	25.51

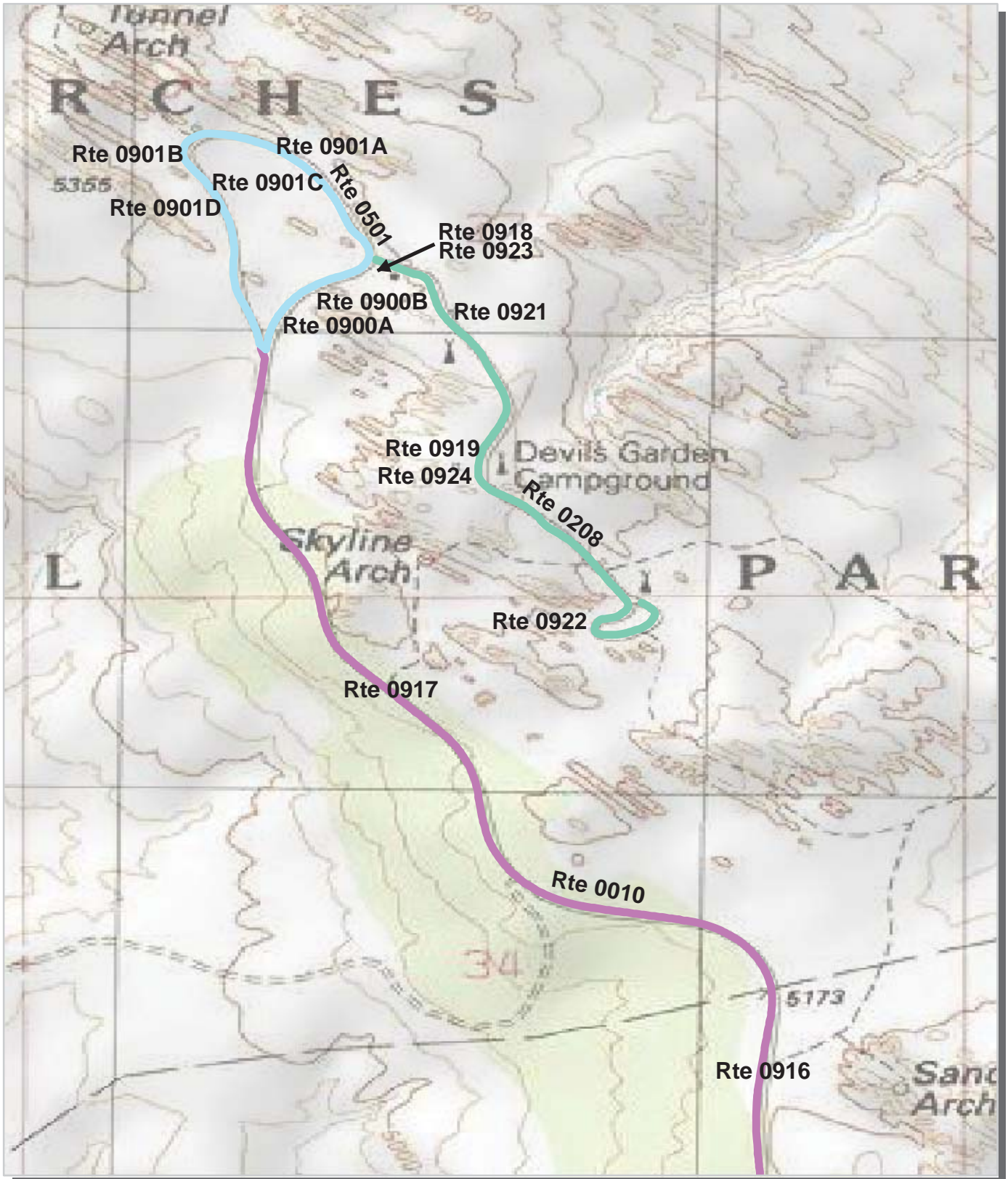
Arches National Park Route Location Key Map



 Park Owned Routes



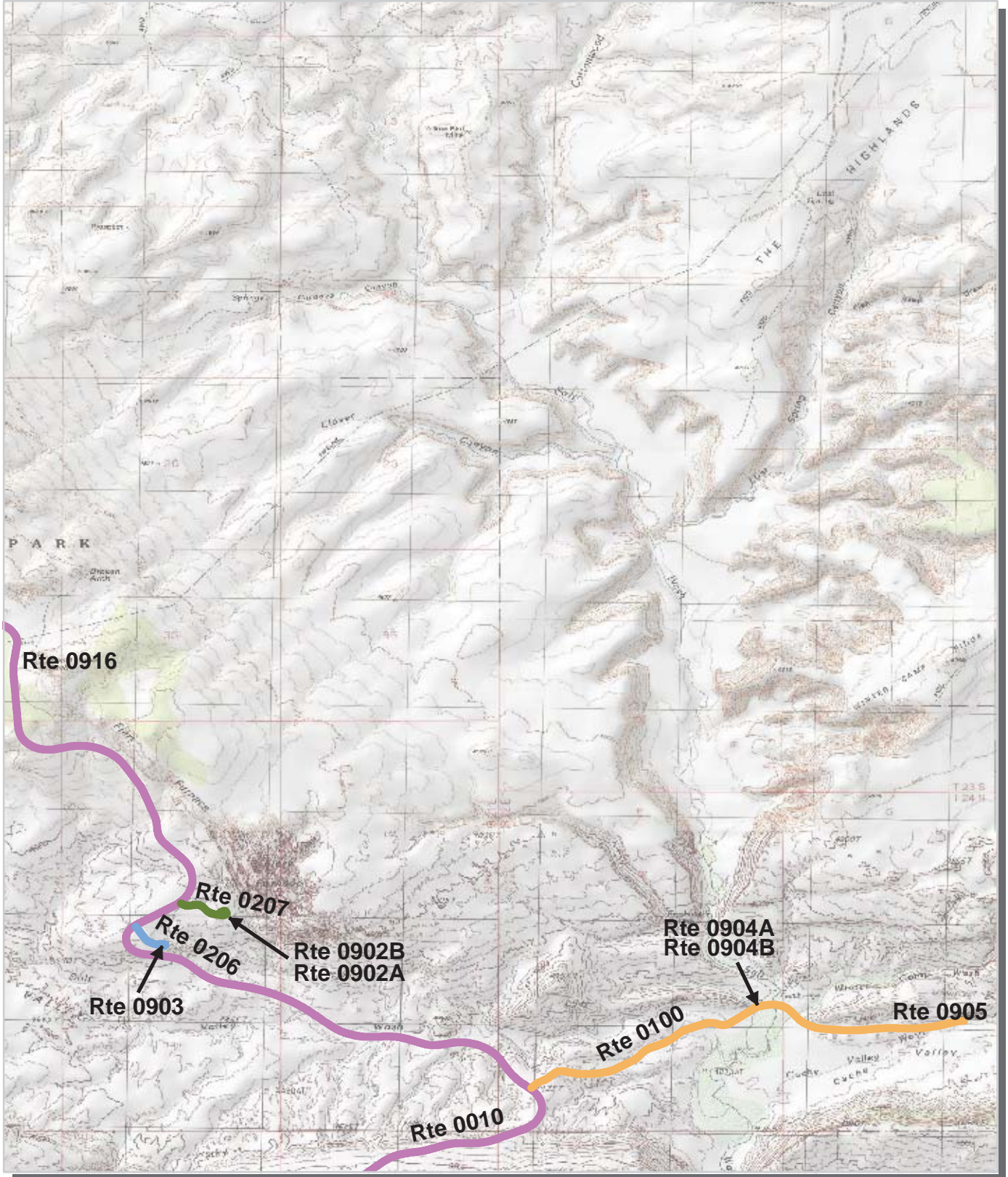
Arches National Park Route Location Area Map 1



Unique colors used to differentiate routes



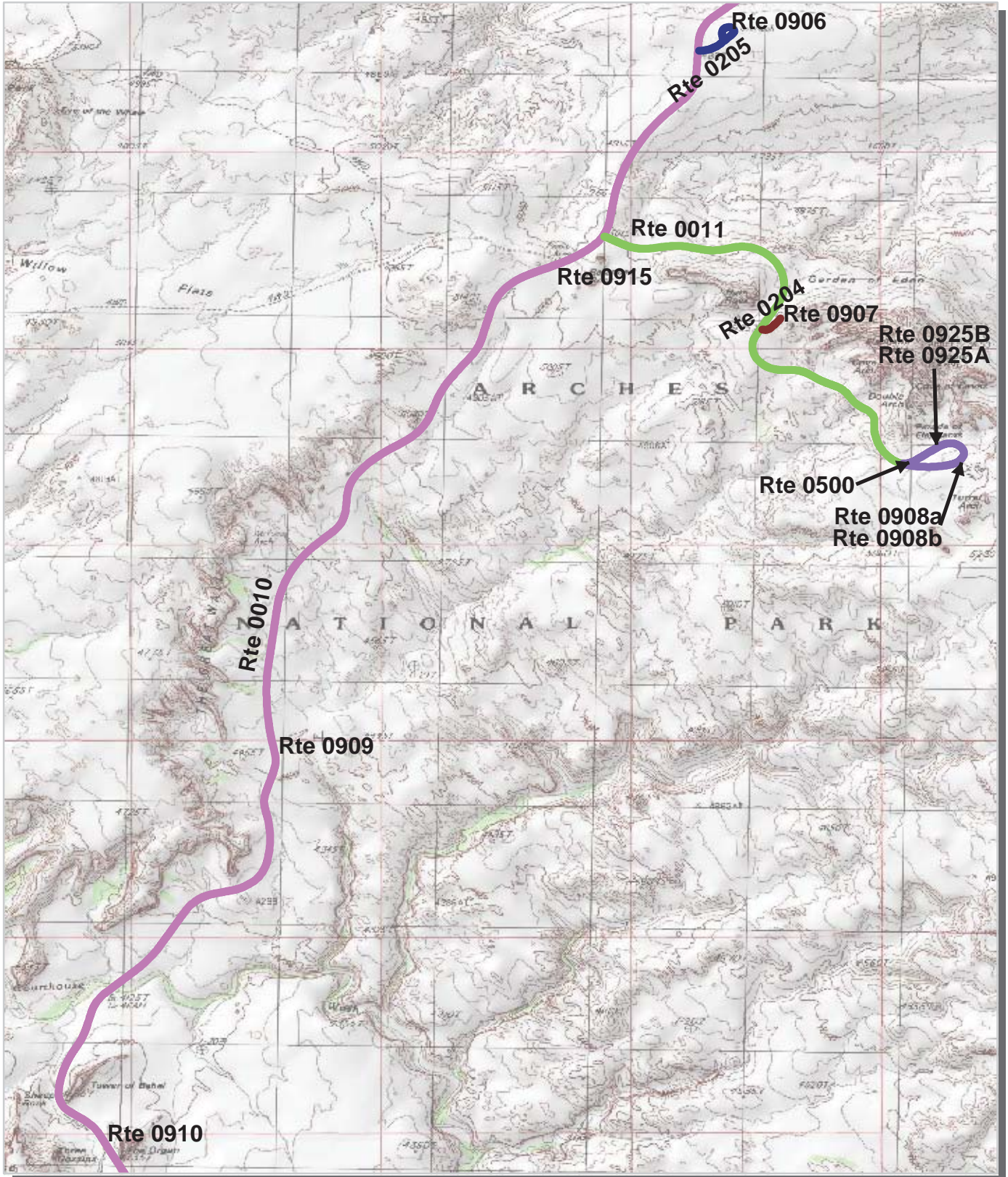
Arches National Park Route Location Area Map 2



Unique colors used to differentiate routes



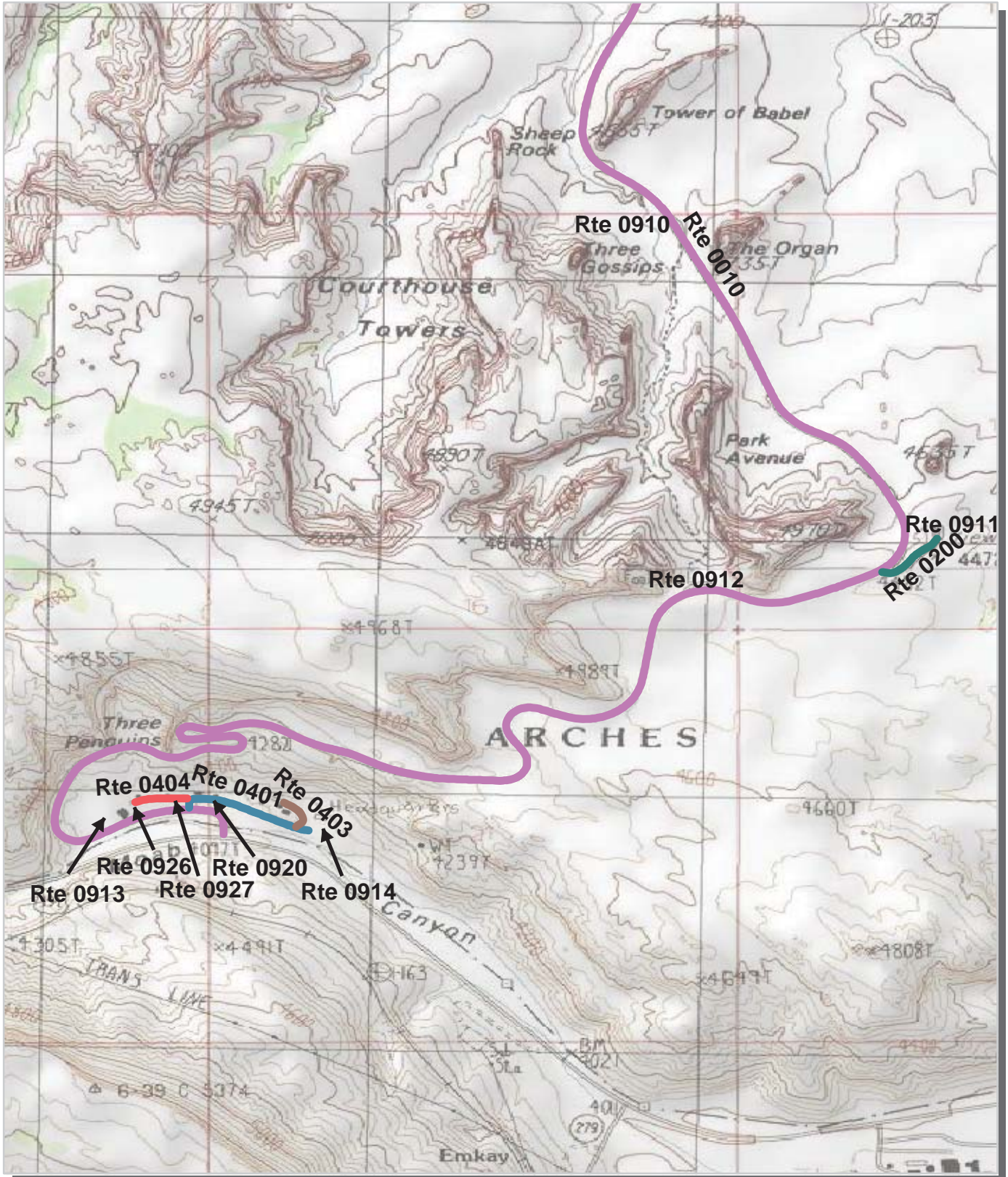
Arches National Park Route Location Area Map 3



Unique colors used to differentiate routes



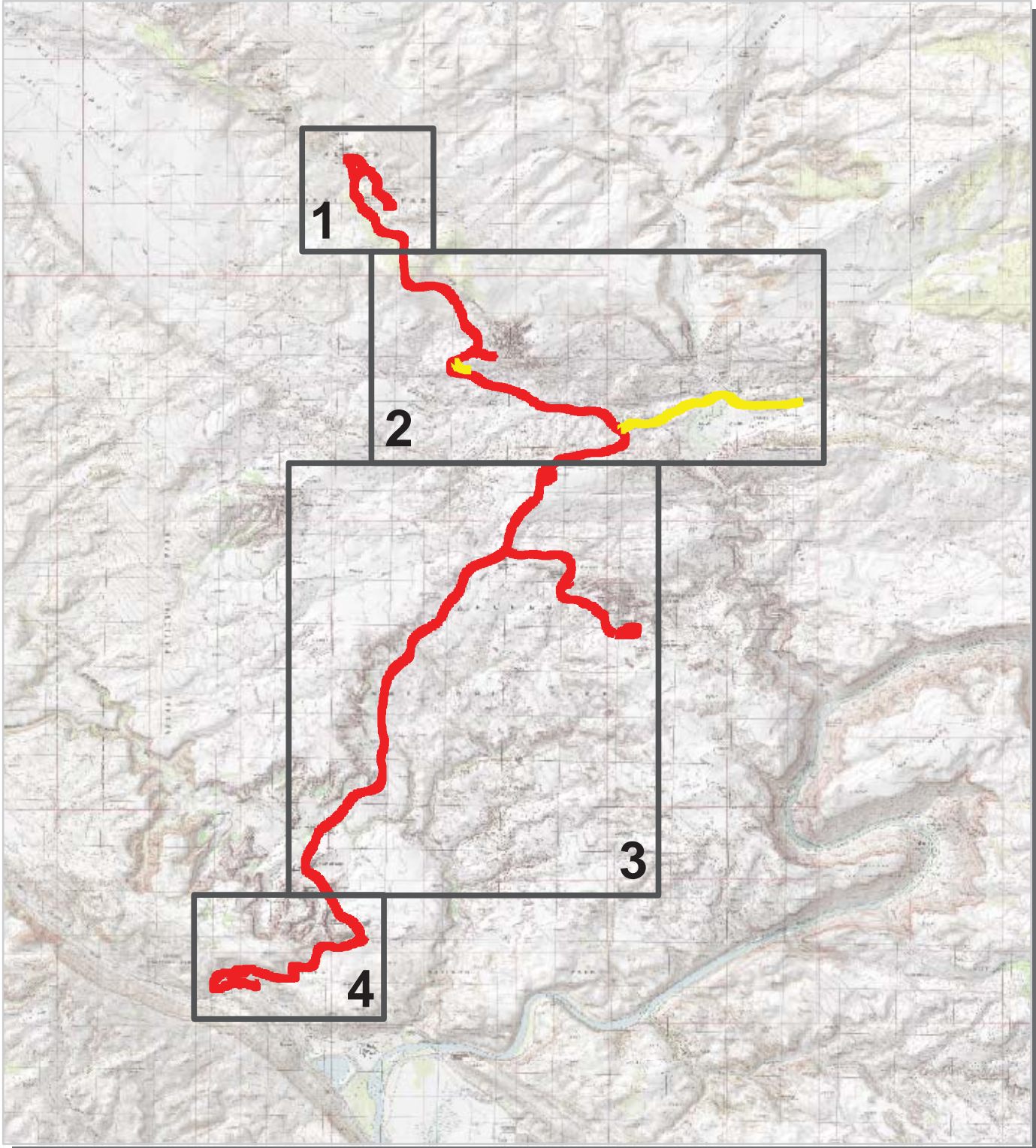
Arches National Park Route Location Area Map 4



Unique colors used to differentiate routes



Arches National Park Route Condition Key Map PCR - Mile by Mile

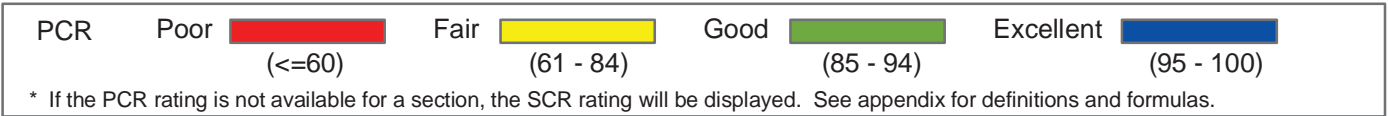
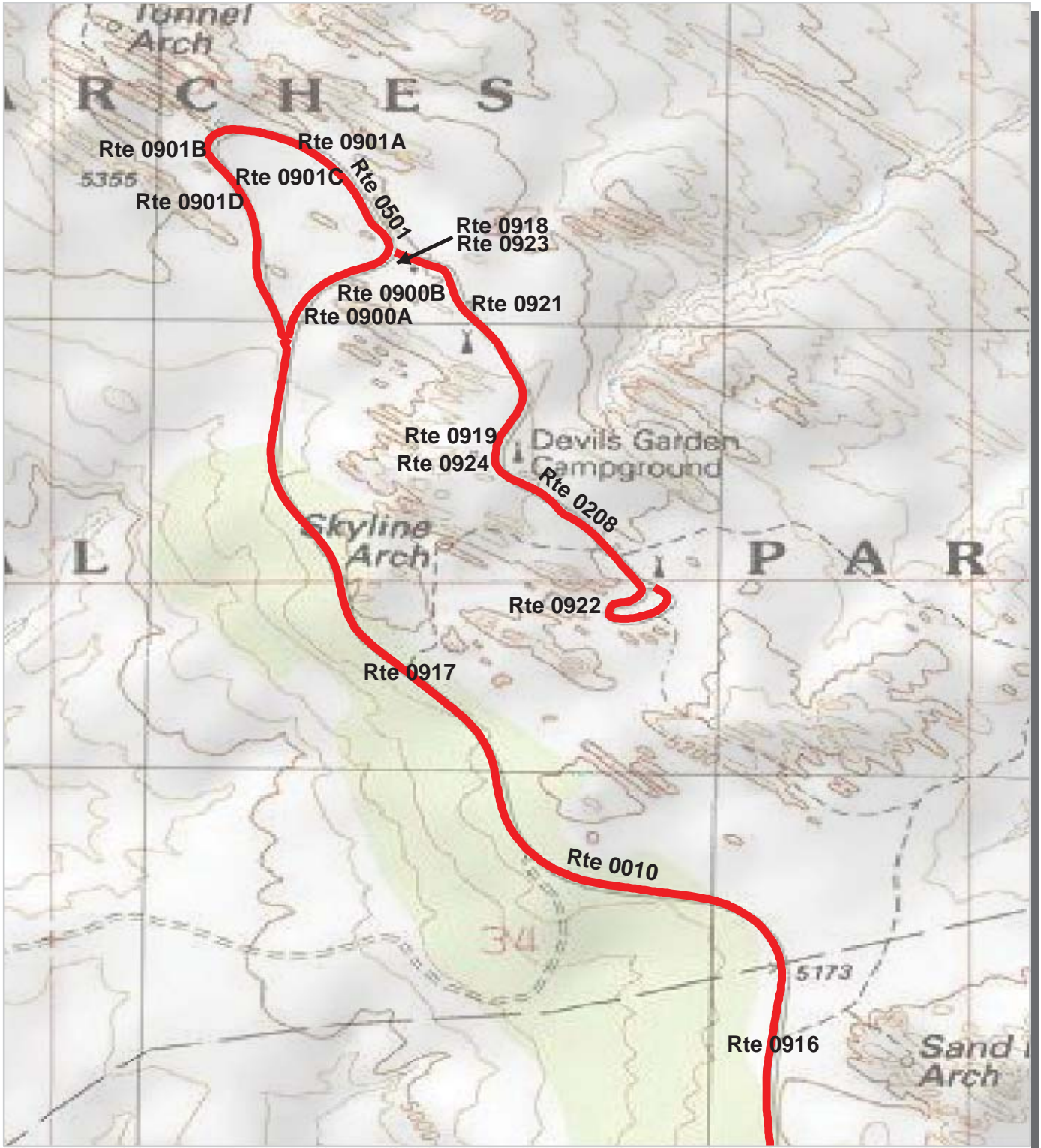


PCR	Poor	(<=60)	Fair	(61 - 84)	Good	(85 - 94)	Excellent	(95 - 100)
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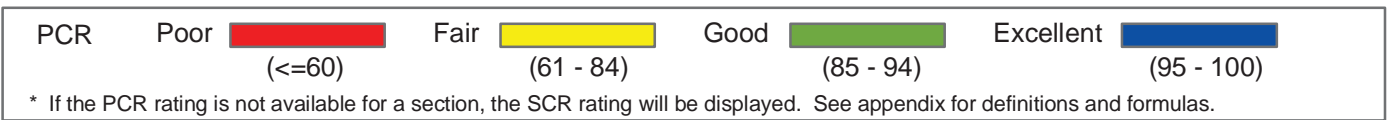
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



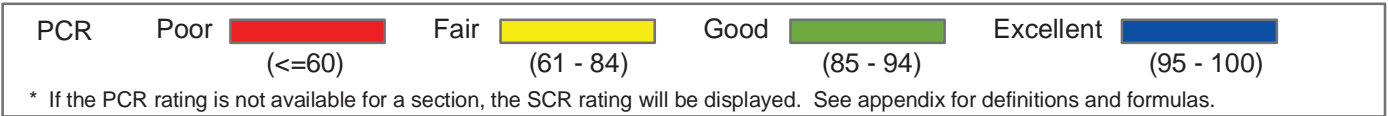
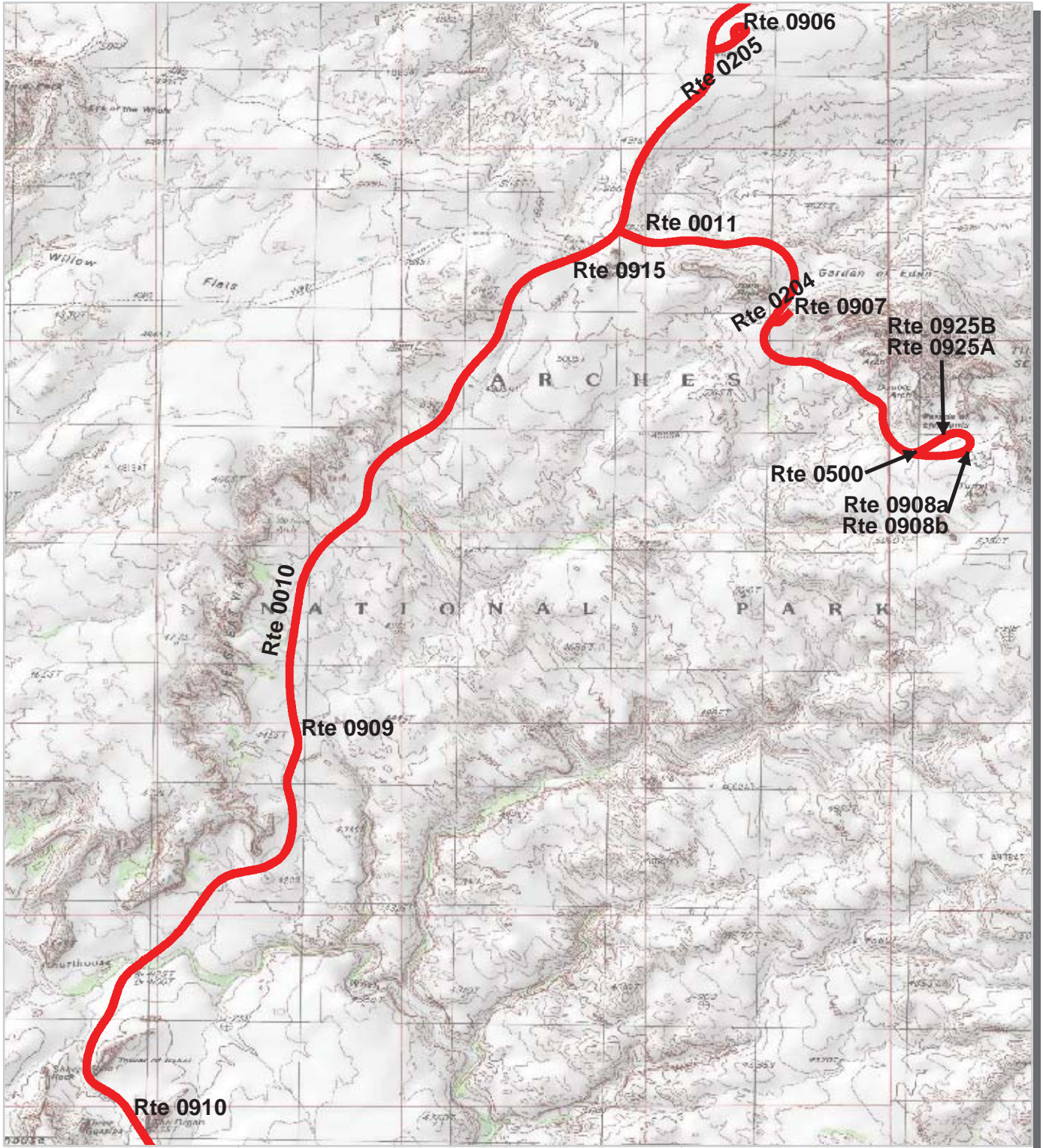
Arches National Park Route Condition Area Map 1 PCR - Mile by Mile



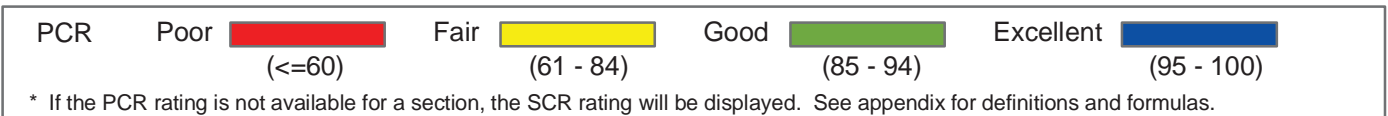
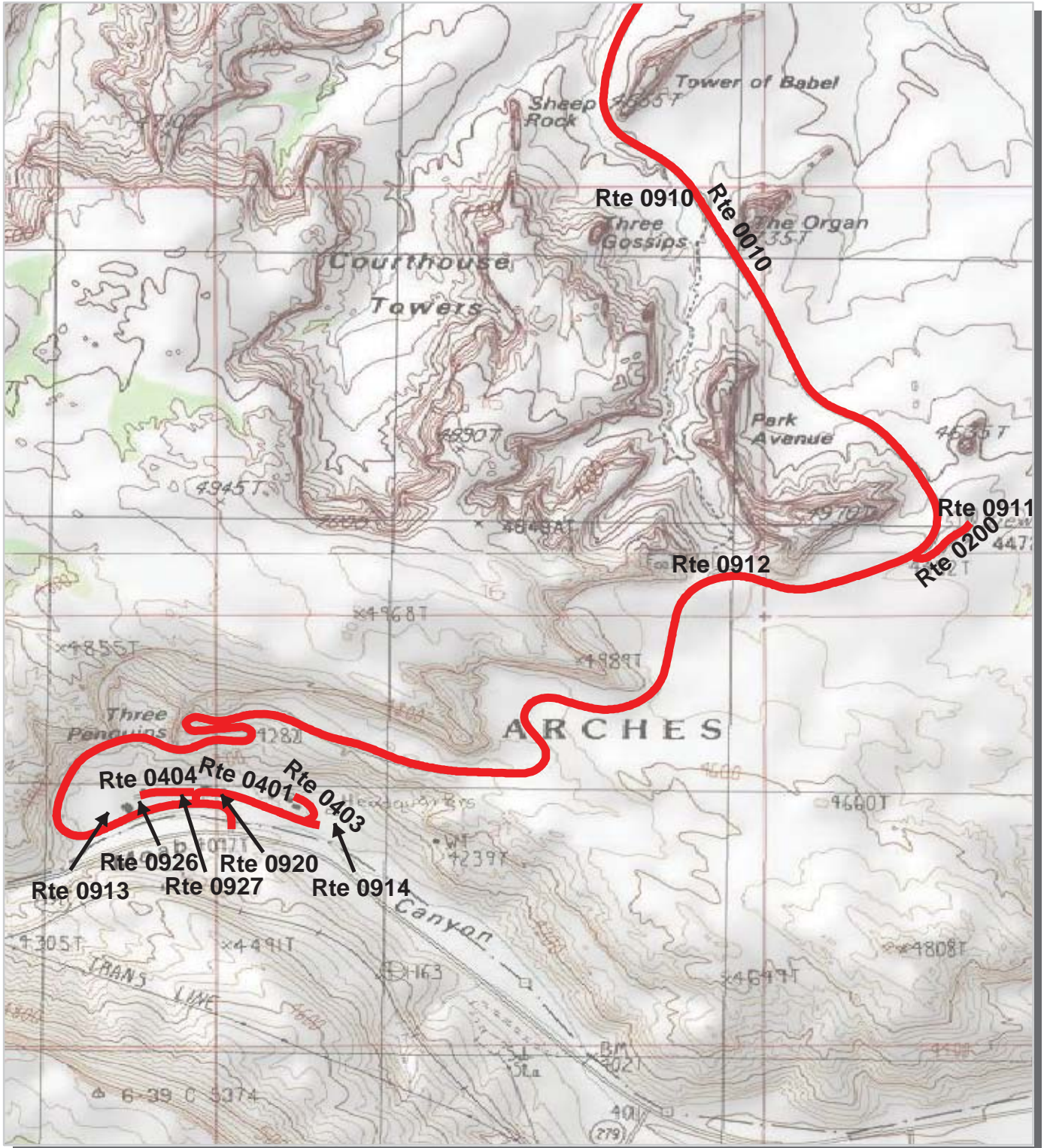
Arches National Park Route Condition Area Map 2 PCR - Mile by Mile



Arches National Park Route Condition Area Map 3 PCR - Mile by Mile



Arches National Park Route Condition Area Map 4 PCR - Mile by Mile



NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Areas
Grey = Paved Routes, ARAN not Driven	Red =	Green = All Unpaved Parking Areas
Black = Paved State, Local or Private non-NPS Routes, ARAN Driven	Purple =	

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Arches National Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0010	63901	MAIN PARK ROAD	From U.S. Highway 191	To Route 0501	17.39	0.00	17.39	1	2	0	OC
0011	63902	WINDOWS ROAD	From Route 0010 at MP 9.4	To Route 0500	2.14	0.00	2.14	1	2	0	OC
0100	63903	DELICATE ARCH ROAD	From Route 0010 at MP 11.75	To Route 0905	2.22	0.00	2.22	1	2	0	AS
0101	63904	SALT VALLEY ROAD	From Route 0010	To North Park Boundary	0.00	9.15	9.15	1	2	0	GR
0200	63905	LA SAL MOUNTAIN VIEW ROAD	From Route 0010 at MP 2.85	To Route 0911	0.15	0.00	0.15	2	2	0	OC
0201	63906	CACHE VALLEY ROAD	From Route 0100	To East Park Boundary	0.00	0.66	0.66	2	2	0	GR
0203	63907	TOWER ARCH TRAILHEAD ROAD	From Route 0101	To End	0.00	1.02	1.02	2	2	0	GR
0204	63908	GARDEN OF EDEN OVERLOOK ROAD	From Route 0011	To Route 0907	0.11	0.00	0.11	2		0	OC
0205	63910	PANORAMA OVERLOOK ROAD	From Route 0010	To End of loop	0.31	0.00	0.31	2	2	0	OC
0206	63911	SALT VALLEY OVERLOOK ROAD	From Route 0010 at MP 14.0	To End of Loop	0.25	0.00	0.25	2	2	0	AS
0207	63912	FIERY FURNACE ROAD	From Route 0010 at MP 14.25	To End of Loop	0.31	0.00	0.31	2	2	0	AS
0208	63913	DEVIL'S GARDEN CAMPGROUND ROAD	From Route 0501	To End of loop	0.78	0.00	0.78	3	2	0	OC
0209	63914	WEST SALT VALLEY JEEP ROAD	From North Access Road	To Route 0201 To End	0.00	11.31	11.31	2	2	0	GR
0210	63915	TOWER ARCH ROAD	From Route 0209	To Route 0011 To End	0.00	1.53	1.53	2	2	0	GR
0213	63916	WILLOW SPRING ROAD	From Route 0010	To West Boundary	0.00	4.05	4.05	2	2	0	GR
0401	63917	ADMINISTRATIVE MAINTENANCE ROAD	From Route 0010 at MP 0.15	To Route 0914	0.28	0.00	0.28	4	2	0	OC
0402	63918	MIXING TABLE SPUR ROAD	From Route 0213	To Route 0010	0.00	0.09	0.09	4	2	0	GR
0403	63919	ARCHES RESIDENCE AREA ROAD	From Route 0401	To End	0.10	0.00	0.10	4		0	OC
0404		ADMINISTRATION ROAD	From Route 00401	To Route 0926	0.11	0.00	0.11	4	2	0	OC
0500	63920	WINDOWS LOOP	From End of Route 0011	To End of loop	0.59	0.00	0.59	1	2	0	OC
0501	63921	DEVIL'S GARDEN LOOP	From End of Route 0010	To End of loop	0.77	0.00	0.77	1	2	0	AS
0900A		DEVILS GARDEN PICNIC PARKING A	Adjacent to Route 0501 at MP 0.04		0.00	0.00	0.00	9	0	8,370	AS
0900B		DEVILS GARDEN PICNIC PARKING B	Adjacent to Route 0501 at MP 0.1		0.00	0.00	0.00	9	0	2,319	AS
0901A		DEVILS GARDEN PARKING A	Adjacent to Route 0501 at MP 0.34 on Right		0.00	0.00	0.00	9	0	13,346	OC
0901B		DEVILS GARDEN PARKING B	Adjacent to Route 0501 at MP 0.48 on Right		0.00	0.00	0.00	9	0	4,081	OC
0901C		DEVILS GARDEN PARKING C	Adjacent to Route 0501 at MP 0.48 on Left		0.00	0.00	0.00	9	0	12,030	OC
0901D		DEVILS GARDEN PARKING D	Adjacent to Route 0501 at MP 0.56 on Right		0.00	0.00	0.00	9	0	2,625	OC
0902A		FIERY FURNACE PARKING A	Adjacent to Route 0207 at End loop		0.00	0.00	0.00	9	0	3,417	AS
0902B		FIERY FURNACE PARKING B	Adjacent to Route 0207 at End loop		0.00	0.00	0.00	9	0	3,089	AS
0903	64004	SALT VALLEY OVERLOOK PARKING	Adjacent to Route 0206 at End loop		0.00	0.00	0.00	9	0	3,042	OC

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

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approx. mileage

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Blue = All Paved Parking Areas

Grey = Paved Routes, ARAN not Driven

Red =

Green = All Unpaved Parking Areas

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

Purple =

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Arches National Park

Rte. #	FMSS Asset #	Route Name	Route Description From To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0904A		WOLFE RANCH PARKING NORTH	Adjacent to Route 0100 on Left	0.00	0.00	0.00	9	0	24,347	AS
0904B		WOLFE RANCH PARKING SOUTH	Adjacent to Route 0100 on Right	0.00	0.00	0.00	9	0	14,636	AS
0905	64006	DELICATE ARCH ROAD VIEWPOINT PARKING	At End of Route 0100	0.00	0.00	0.00	9	0	56,779	OC
0906	64007	PANORAMA POINT PARKING	Adjacent to Route 0205 at End loop	0.00	0.00	0.00	9	0	11,908	AS
0907	64008	GARDEN OF EDEN PARKING	At End of Route 0204	0.00	0.00	0.00	9	0	10,340	OC
0908A		WINDOWS PARKING A	Adjacent to Route 0500	0.00	0.00	0.00	9	0	6,777	OC
0908B		WINDOWS PARKING B	Adjacent to Route 0500	0.00	0.00	0.00	9	0	4,006	OC
0909	64011	PETRIFIED DUNES PARKING	Adjacent to Route 0010 at MP 6.2	0.00	0.00	0.00	9	0	1,895	AS
0910	64013	COURTHOUSE TOWERS PARKING	Adjacent to Route 0010 at MP 3.8	0.00	0.00	0.00	9	0	14,585	OC
0911	64015	LA SAL MOUNTAIN VIEW PARKING	At End of Route 0200	0.00	0.00	0.00	9	0	16,570	OC
0912	64016	PARK AVENUE PARKING	Adjacent to Route 0010 at MP 2.5	0.00	0.00	0.00	9	0	16,977	OC
0913	64018	VISITOR CENTER PARKING	Adjacent to Route 0010 at MP 0.3	0.00	0.00	0.00	9	0	34,025	AS
0914	64019	MAINTENANCE PARKING	At End of Route 0401	0.00	0.00	0.00	9	0	18,585	AS
0915	64021	BALANCED ROCK PARKING	Adjacent to Route 0010 at MP 9.1	0.00	0.00	0.00	9	0	13,407	AS
0916	64022	SAND DUNES ARCH PARKING	Adjacent to Route 0010 at MP 16.16	0.00	0.00	0.00	9	0	5,897	OC
0917	64023	SKYLINE ARCH TRAILHEAD PARKING	Adjacent to Route 0010 at MP 16.9	0.00	0.00	0.00	9	0	3,042	OC
0918	64026	CAMPGROUND REGISTRATION PARKING	Adjacent to Route 0208	0.00	0.00	0.00	9	0	1,123	AS
0919	64028	CANYON WREN GROUP CAMPGROUND PARKING	Adjacent to Route 0208	0.00	0.00	0.00	9	0	3,779	AS
0920	64032	RESIDENTIAL PARKING	Adjacent to Route 0401	0.00	0.00	0.00	9	0	2,295	OC
0921	64034	CAMPGROUND RESTROOM PARKING	Adjacent to Route 0208	0.00	0.00	0.00	9	0	849	AS
0922	64035	JUNIPER GROUP CAMPGROUND PARKING	Adjacent to Route 0208	0.00	0.00	0.00	9	0	2,115	OC
0923		CAMPGROUND PARKING	Adjacent to Route 0501	0.00	0.00	0.00	9	0	1,991	AS
0924		CANYON WREN AMPHITHEATER PARKING	Adjacent to Route 0208	0.00	0.00	0.00	9	0	2,460	AS
0925A		DOUBLE ARCH PARKING A	Adjacent to Route 0500	0.00	0.00	0.00	9	0	6,309	OC
0925B		DOUBLE ARCH PARKING B	Adjacent to Route 0500	0.00	0.00	0.00	9	0	4,735	OC
0926		VISITOR CENTER STAFF PARKING	At End of Route 0404	0.00	0.00	0.00	9	0	1,732	OC
0927		ADMINISTRATIVE PARKING	Adjacent to Route 0404	0.00	0.00	0.00	9	0	1,354	AS
Totals:				25.51	27.81	53.32			334,835	

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes approx. mileage

White = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Areas
Grey = Paved Routes, ARAN not Driven	Red =	Green = All Unpaved Parking Areas
Black = Paved State, Local or Private non-NPS Routes, ARAN Driven	Purple =	

General Park Road Functional Classification Table

- Class 1 Principal Park Road/Rural Parkway (Public Roads) - Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Inventoried for Park. Route Numbers 5000-5999
- Class 2 Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.
- Class 3 Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.
- Class 4 Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.
Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.
- Class 5 Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.
- Class 6 Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499.
Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.
- Class 7 Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.
- Class 8 City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.
- Class 9 Boat Ramp - (Public and Administrative) Route Numbers 800-899.
Parking Area - (Public and Administrative) Route Numbers 900-1999.

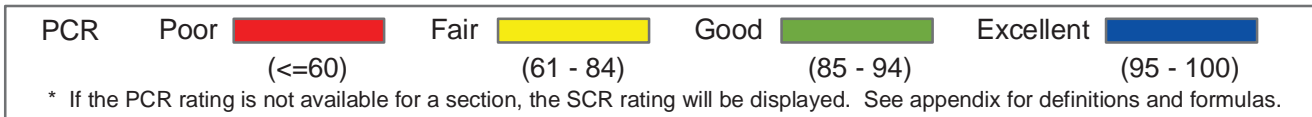
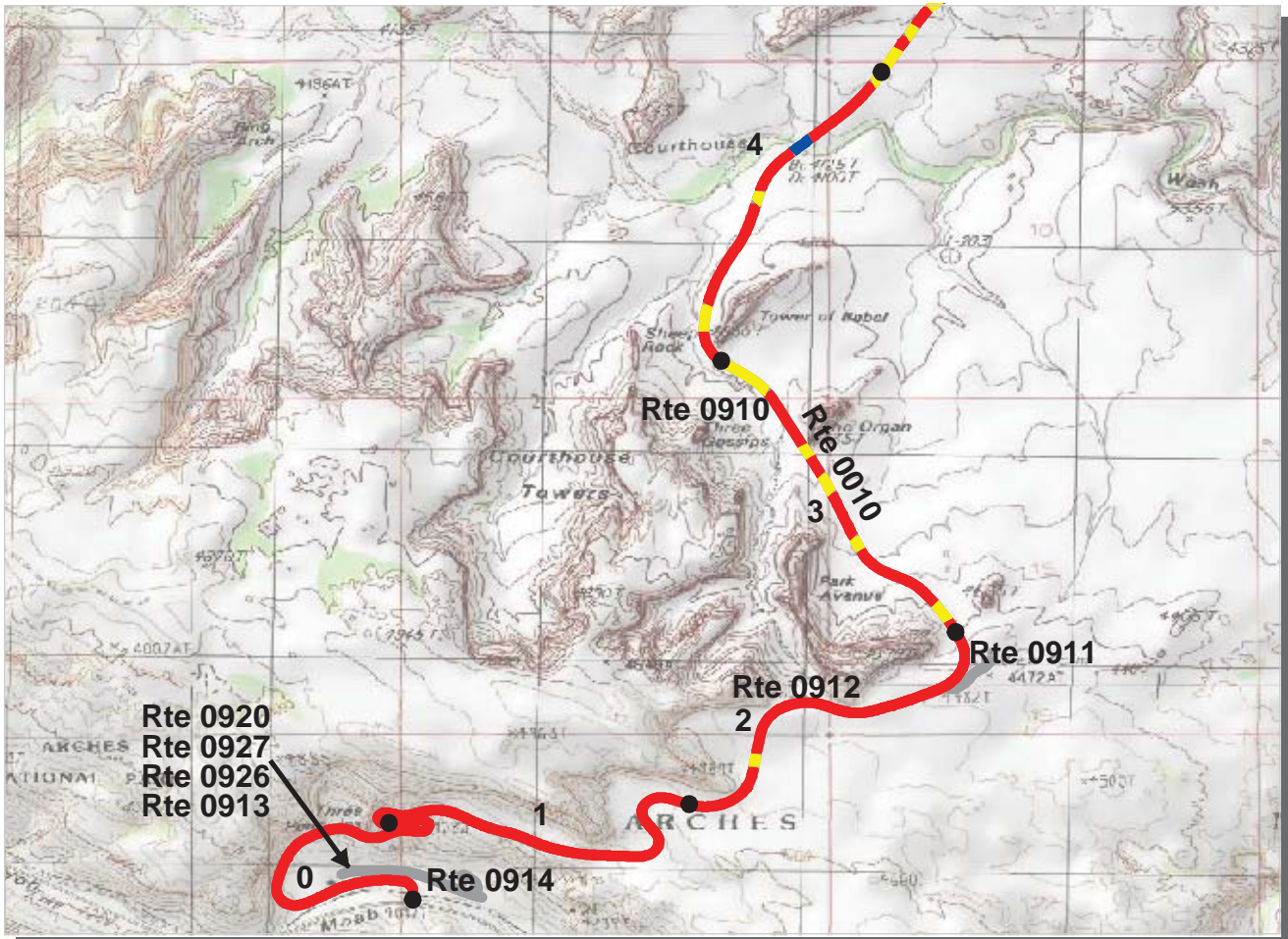
Surface Type Abbreviations:

- AS - Asphaltic Concrete Pavement
- CO - Portland Cement Concrete Pavement
- NC - New Chip Seal Pavement (Under 5 Years)
- OC - Old Chip Seal Pavement (5 Years and Greater)
- SS - Slurry Seal Pavement
- GR - Gravel Road Bed
- BR - Brick or Pavers Road Bed
- CB - Cobble Stone Road Bed
- SA - Sand Road Bed
- DT - Dirt or Native Material Road Bed
- OT - Other Materials Road Bed

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

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

ZZ Functional Class Routes were added from FMSS Database. Final Route Number and Functional Class will be established during Park visit for Cycle 4 data collection.



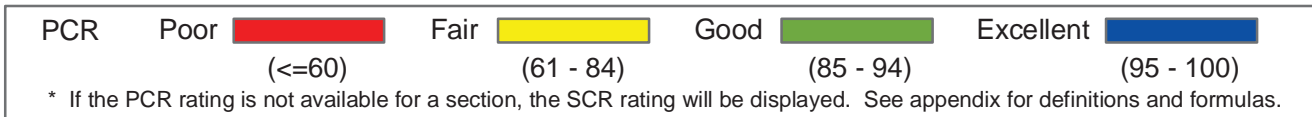
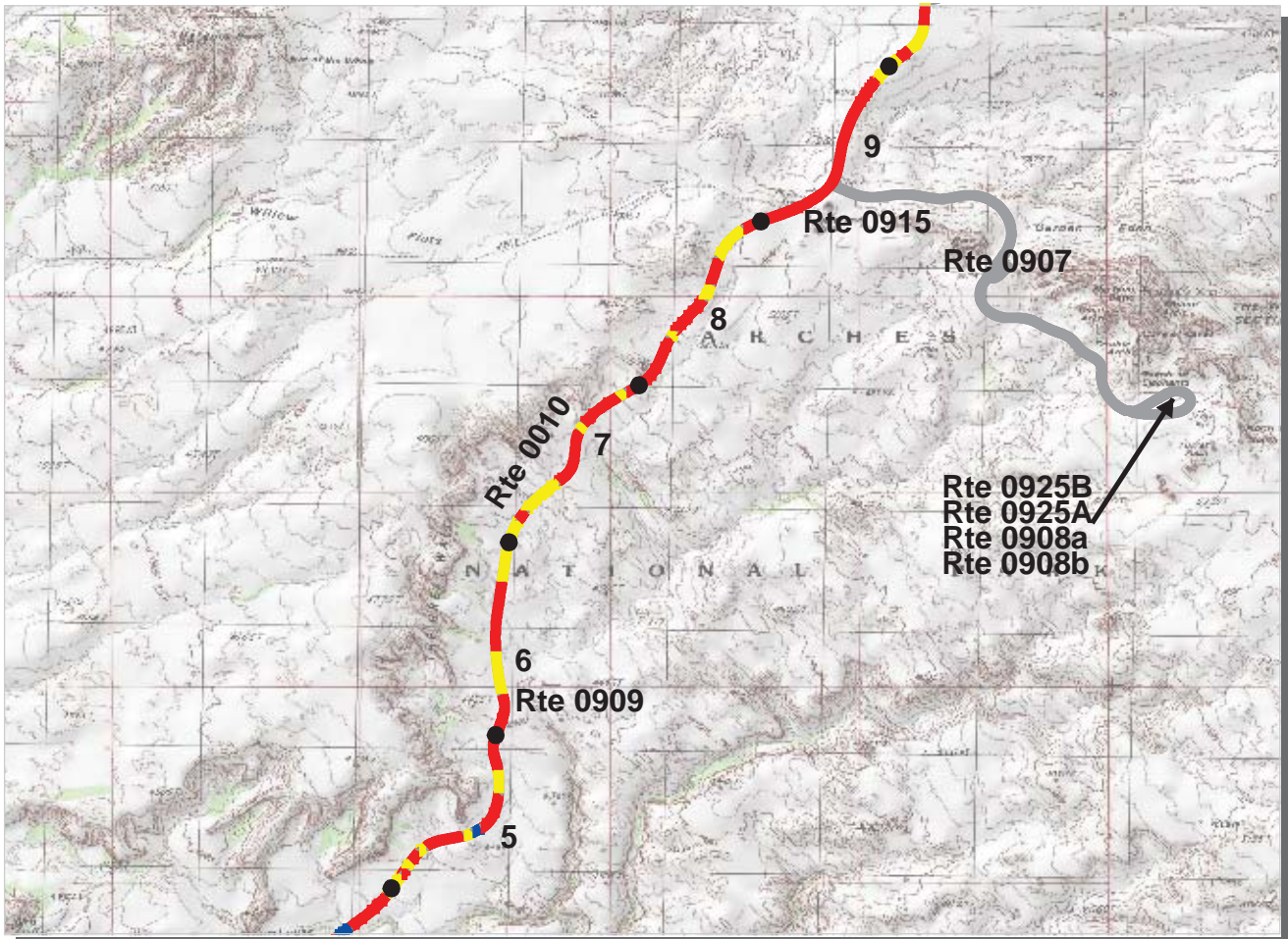
Intermountain Region
ARCH : Arches National Park

ROUTE: 0010 MAIN PARK ROAD **TOTAL LENGTH: 17.39 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	22	21	19	19	19
Lane Width (ft)	11	10	9	9	9
Shoulder Width (ft)	0	3	4	3	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	34	48	52	56	58
RCI (Roughness Condition Index)	72	87	91	90	88
SCR (Surface Condition Rating)	15	22	26	34	38
Alligator Cracking Index	98	99	99	99	99
Rutting Index	41	41	38	50	50
Patching Index	100	100	100	100	100
Transverse Cracking Index	83	87	91	89	91
Longitudinal Cracking Index	90	94	96	94	97
Shoulder Condition Rating	N/A	POOR	N/C	N/C	N/C
Drainage Condition Rating	N/C	GOOD	N/C	N/C	N/C

ROUTE: 0010 MAIN PARK ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



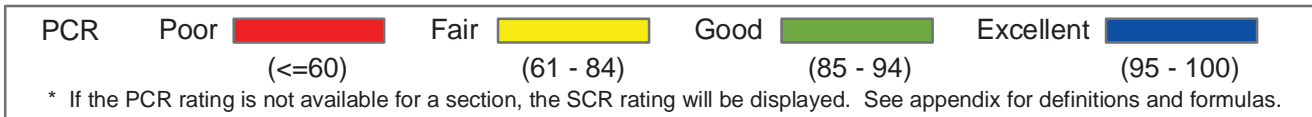
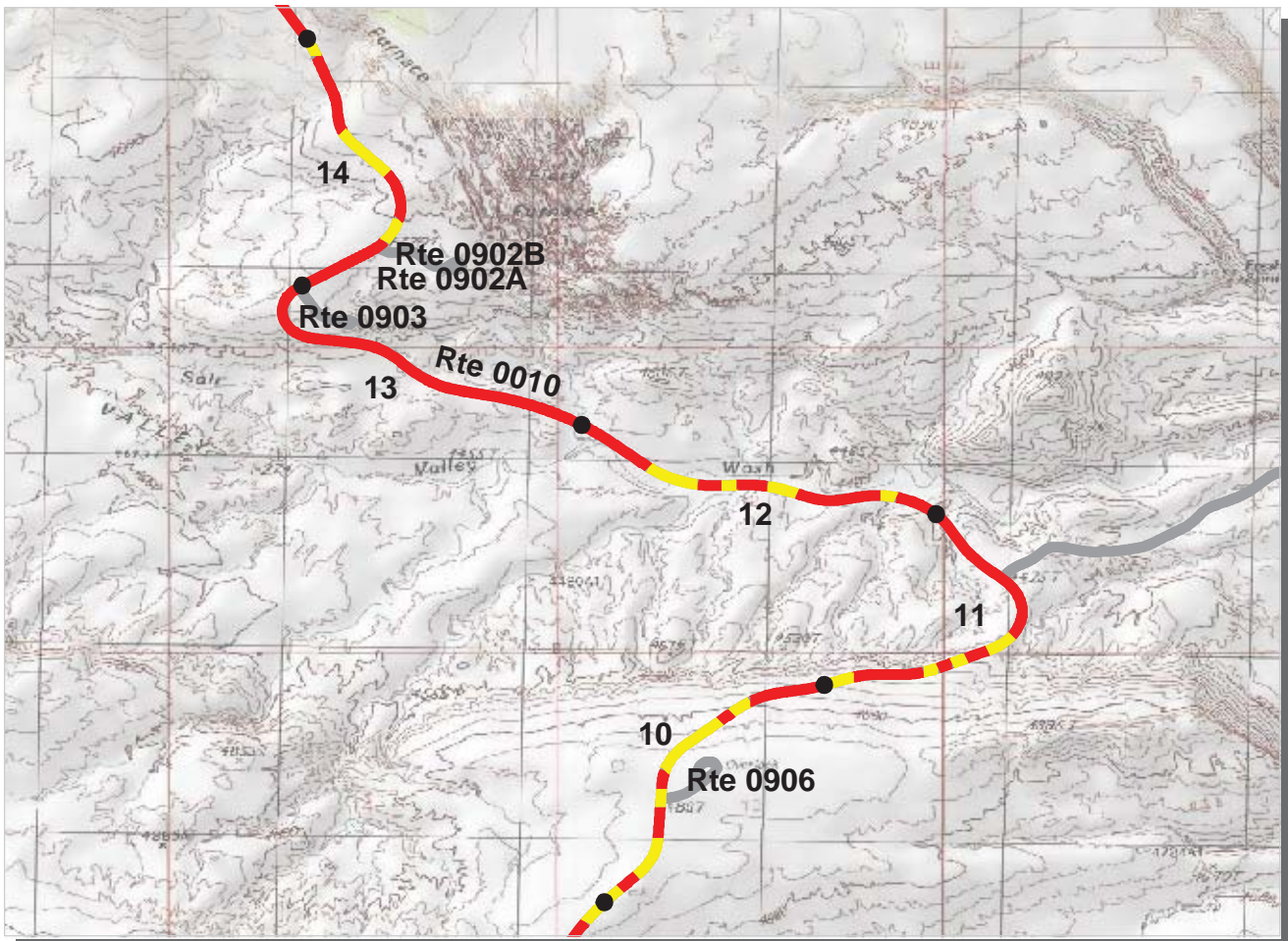
Intermountain Region
ARCH : Arches National Park

ROUTE: 0010 MAIN PARK ROAD **TOTAL LENGTH: 17.39 Miles**

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	19	18	18	19	19
Lane Width (ft)	9	10	9	10	9
Shoulder Width (ft)	0	0	3	5	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	60	59	60	57	50
RCI (Roughness Condition Index)	95	94	92	94	82
SCR (Surface Condition Rating)	36	36	38	32	29
Alligator Cracking Index	99	100	100	99	99
Rutting Index	49	50	49	50	46
Patching Index	100	100	100	100	100
Transverse Cracking Index	90	90	91	87	88
Longitudinal Cracking Index	96	95	96	94	94
Shoulder Condition Rating	N/A	N/A	N/C	N/C	N/C
Drainage Condition Rating	N/C	N/C	N/C	N/C	N/C

ROUTE: 0010 MAIN PARK ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



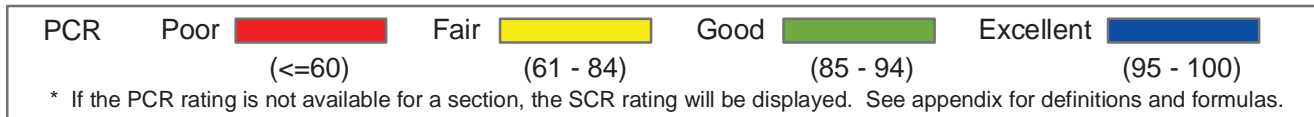
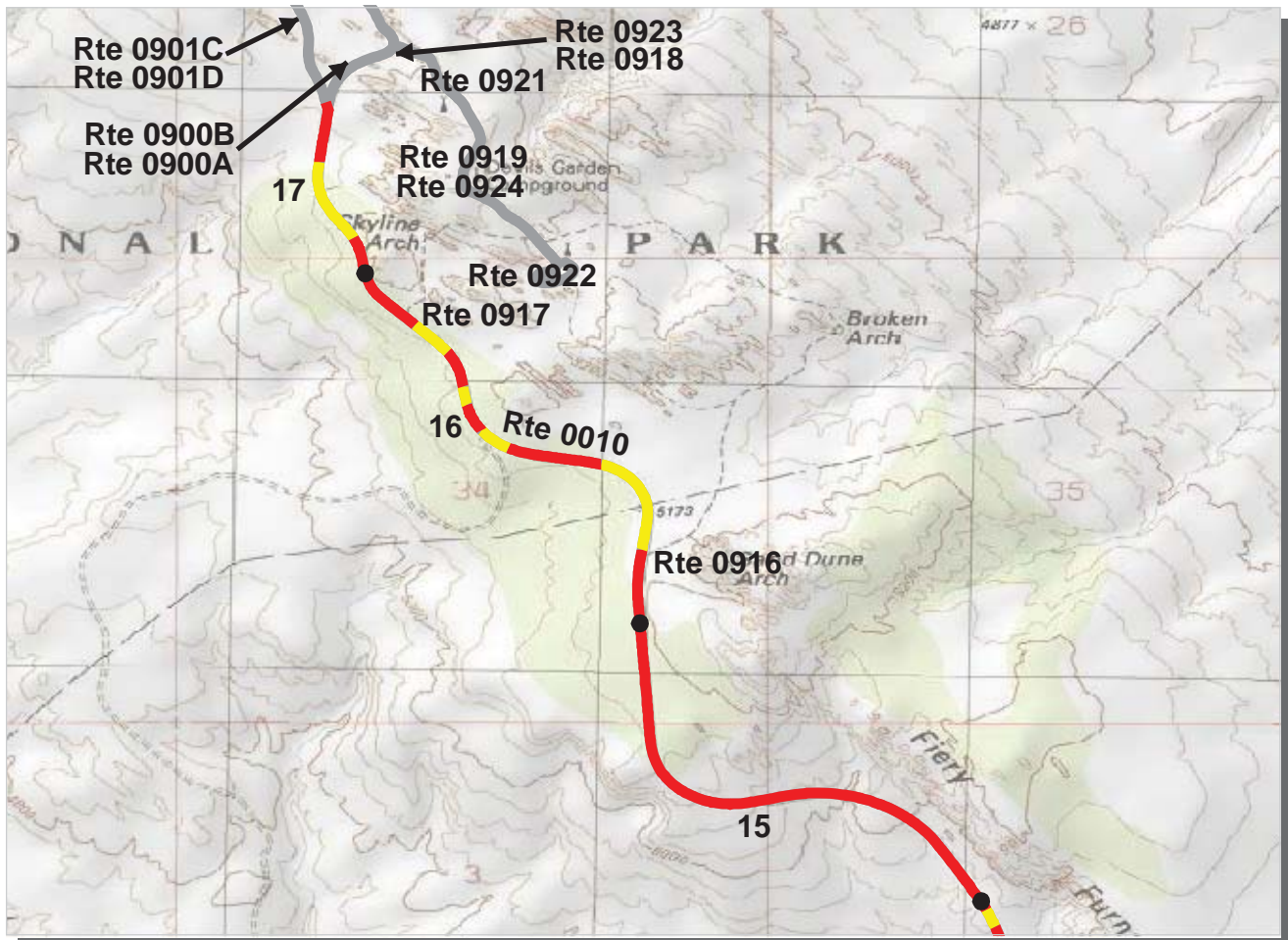
Intermountain Region
ARCH : Arches National Park

ROUTE: 0010 MAIN PARK ROAD **TOTAL LENGTH: 17.39 Miles**

Section Number	10	11	12	13	14
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	19	19	20	20
Lane Width (ft)	9	9	9	10	10
Shoulder Width (ft)	5	4	5	0	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	60	53	54	44	56
RCI (Roughness Condition Index)	87	79	82	64	88
SCR (Surface Condition Rating)	43	35	36	31	34
Alligator Cracking Index	100	99	99	99	99
Rutting Index	55	52	44	42	46
Patching Index	100	100	100	100	100
Transverse Cracking Index	90	88	94	93	92
Longitudinal Cracking Index	96	95	97	95	96
Shoulder Condition Rating	N/C	N/C	N/C	N/A	N/C
Drainage Condition Rating	N/C	N/C	N/C	N/C	N/C

ROUTE: 0010 MAIN PARK ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



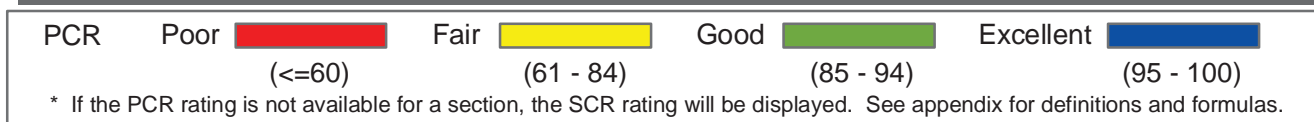
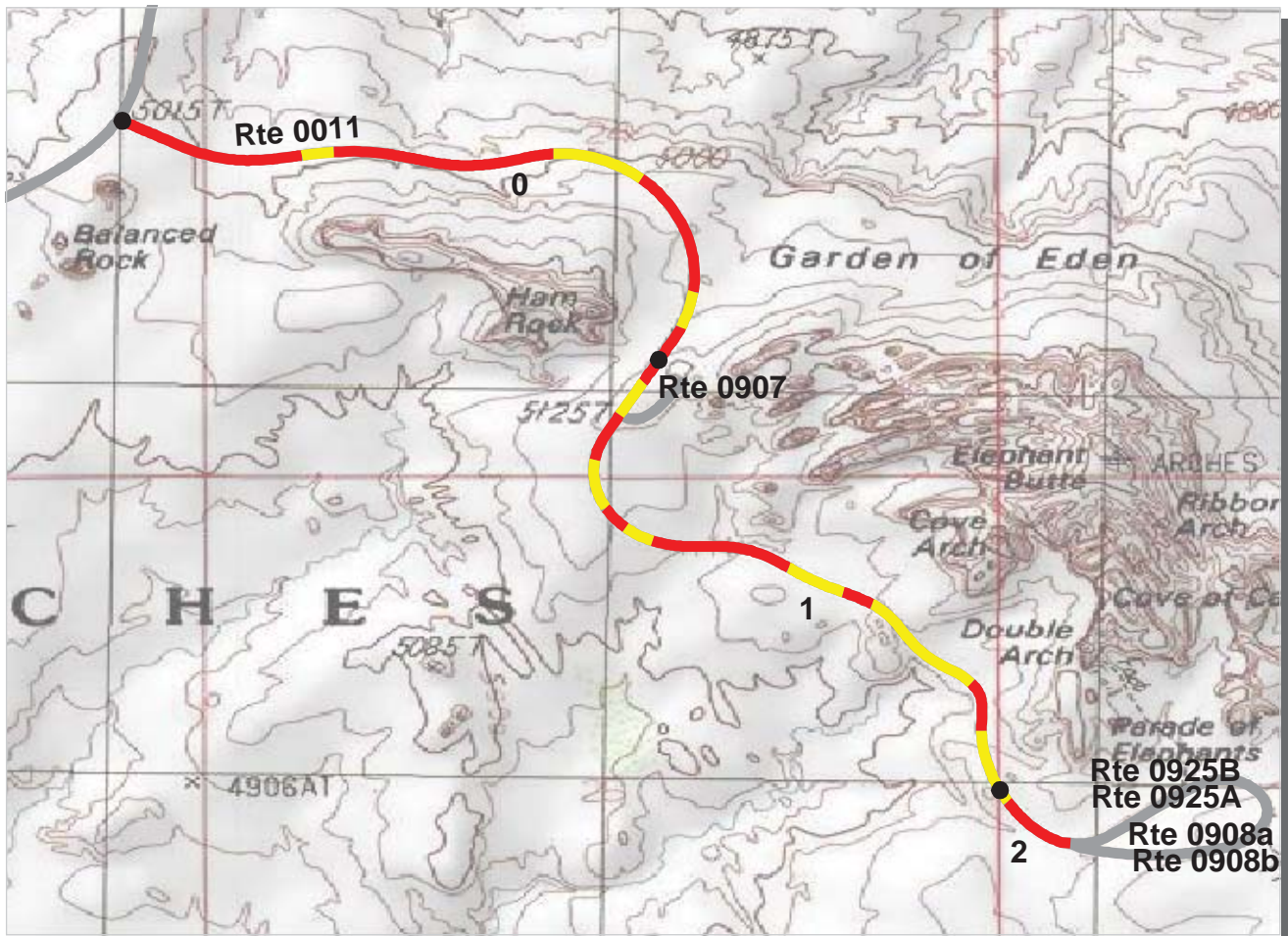
Intermountain Region
ARCH : Arches National Park

ROUTE: 0010 MAIN PARK ROAD **TOTAL LENGTH: 17.39 Miles**

Section Number	15	16	17		
Section Length (mi)	1.00	1.00	0.39		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	20	21	20		
Lane Width (ft)	10	11	10		
Shoulder Width (ft)	4	7	5		
Roadway Condition Information					
PCR (Pavement Condition Rating)	52	59	56		
RCI (Roughness Condition Index)	83	90	91		
SCR (Surface Condition Rating)	31	38	32		
Alligator Cracking Index	99	99	99		
Rutting Index	46	53	48		
Patching Index	100	99	100		
Transverse Cracking Index	93	90	91		
Longitudinal Cracking Index	92	95	92		
Shoulder Condition Rating	N/C	N/C	N/C		
Drainage Condition Rating	N/C	N/C	N/C		

ROUTE: 0010 MAIN PARK ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



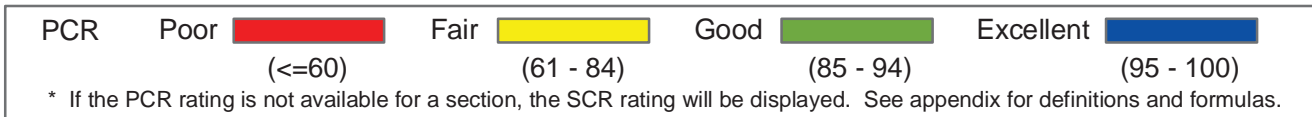
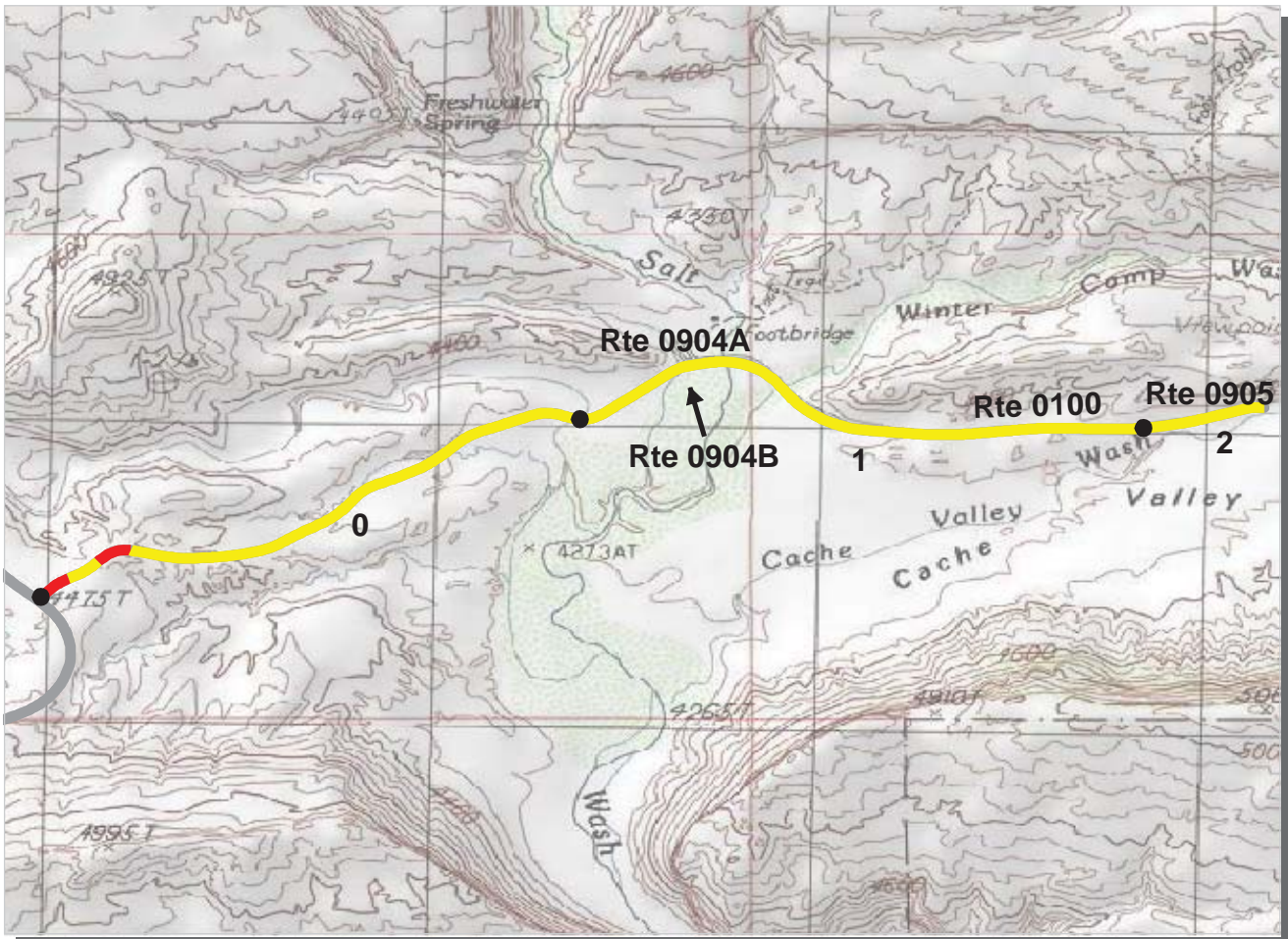
Intermountain Region
ARCH : Arches National Park

ROUTE: 0011 WINDOWS ROAD **TOTAL LENGTH: 2.14 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.14		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	20	20	20		
Lane Width (ft)	9	9	10		
Shoulder Width (ft)	5	5	4		
Roadway Condition Information					
PCR (Pavement Condition Rating)	55	58	48		
RCI (Roughness Condition Index)	91	89	83		
SCR (Surface Condition Rating)	34	37	24		
Alligator Cracking Index	100	100	100		
Rutting Index	39	42	33		
Patching Index	100	100	100		
Transverse Cracking Index	96	96	93		
Longitudinal Cracking Index	98	98	97		
Shoulder Condition Rating	GOOD	GOOD	GOOD		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0011 WINDOWS ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



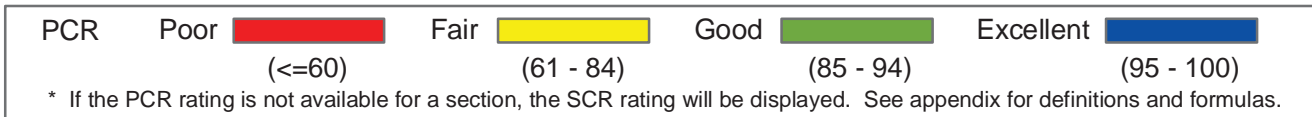
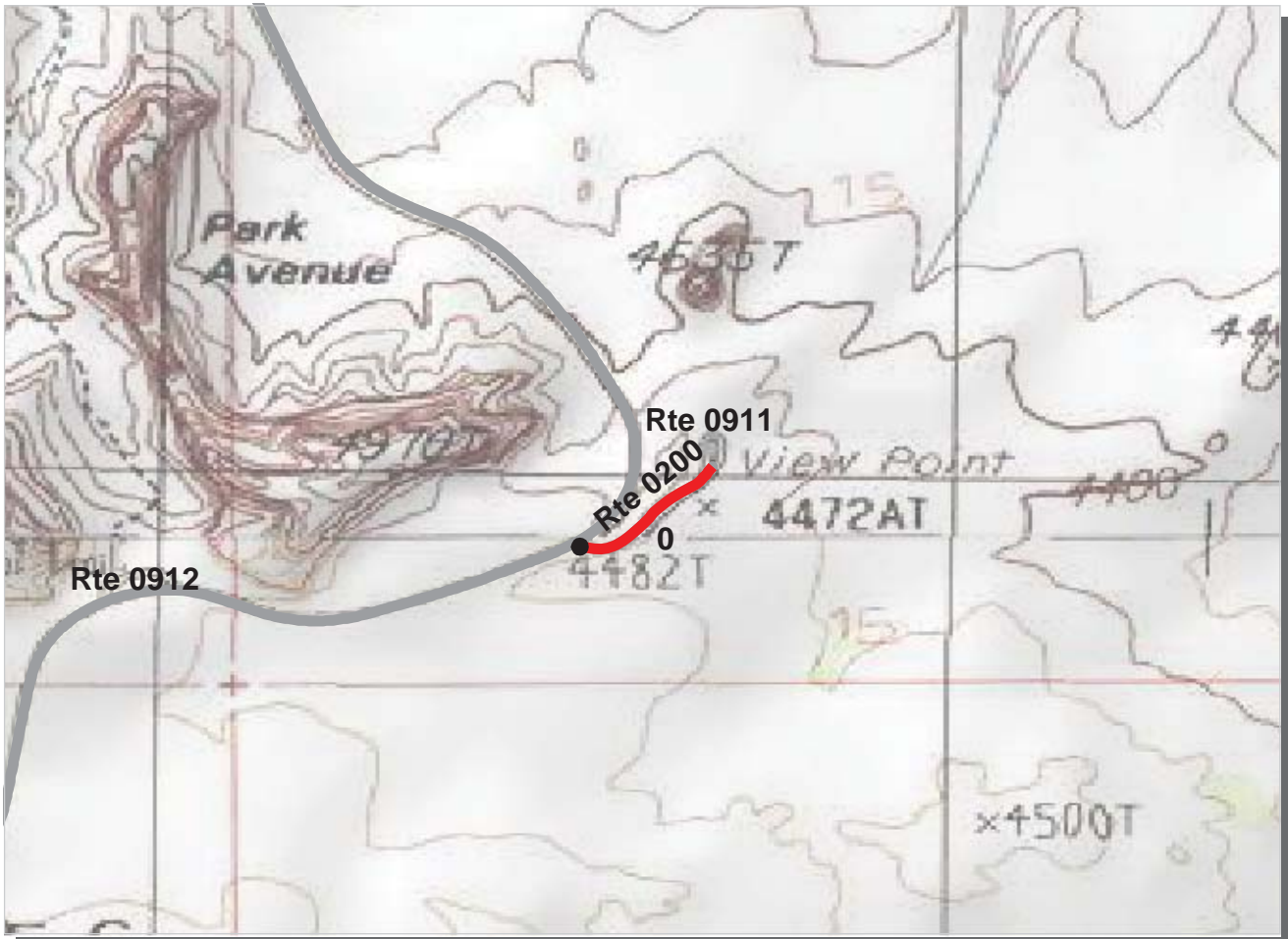
Intermountain Region
ARCH : Arches National Park

ROUTE: 0100 DELICATE ARCH ROAD **TOTAL LENGTH: 2.22 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.22		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	21	20	20		
Lane Width (ft)	10	10	10		
Shoulder Width (ft)	3	3	4		
Roadway Condition Information					
PCR (Pavement Condition Rating)	70	75	73		
RCI (Roughness Condition Index)	92	94	96		
SCR (Surface Condition Rating)	57	61	58		
Alligator Cracking Index	99	100	100		
Rutting Index	58	62	58		
Patching Index	100	100	100		
Transverse Cracking Index	99	99	100		
Longitudinal Cracking Index	99	99	99		
Shoulder Condition Rating	GOOD	GOOD	GOOD		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0100 DELICATE ARCH ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



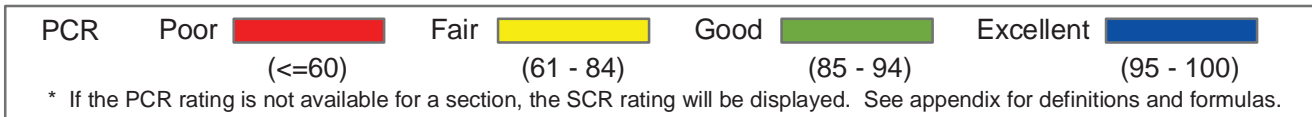
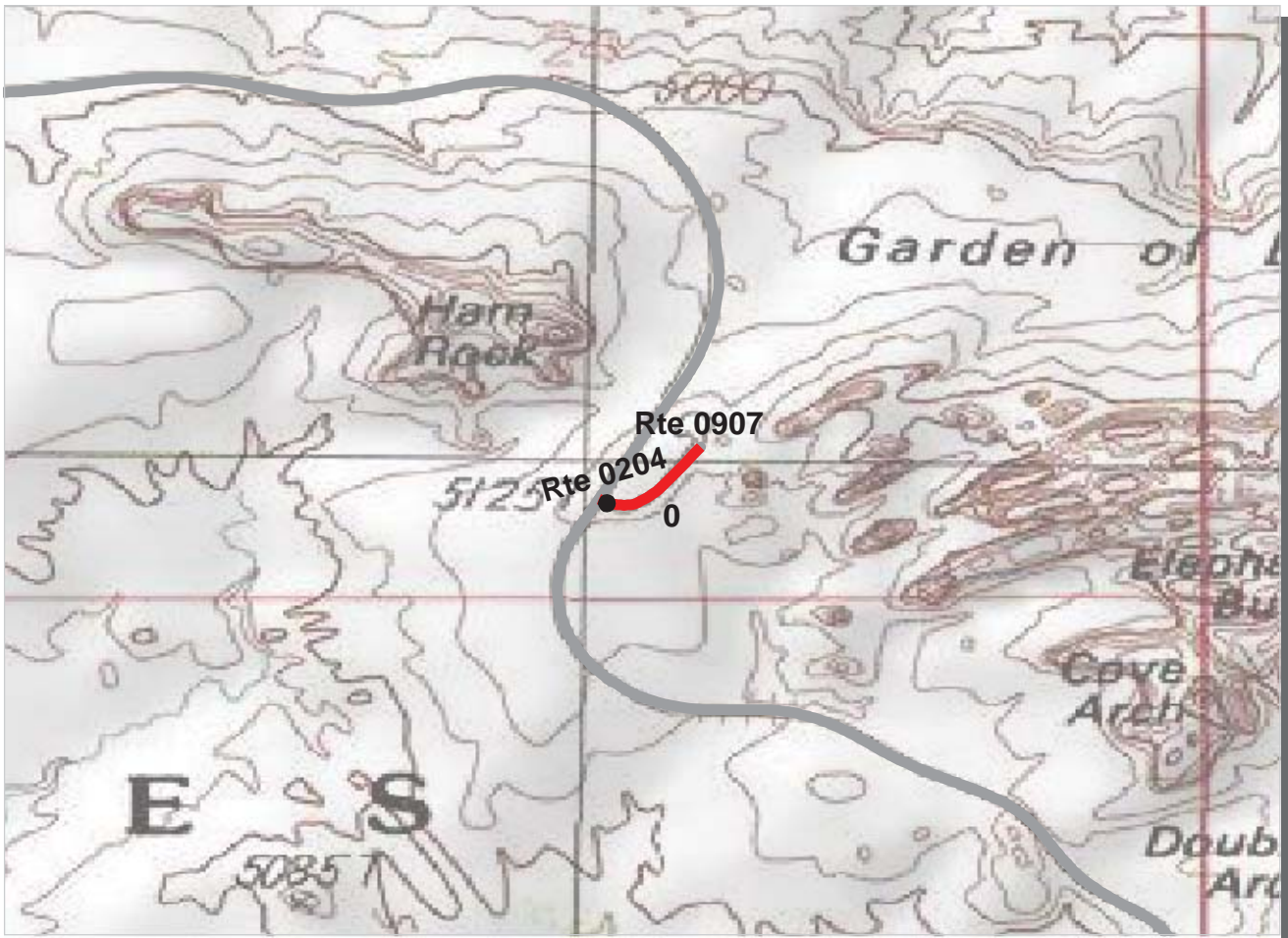
Intermountain Region
ARCH : Arches National Park

ROUTE: 0200 LA SAL MOUNTAIN VIEW ROAD **TOTAL LENGTH: 0.15 Miles**

Section Number	0				
Section Length (mi)	0.15				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	29				
RCI (Roughness Condition Index)	67				
SCR (Surface Condition Rating)	19				
Alligator Cracking Index	98				
Rutting Index	37				
Patching Index	100				
Transverse Cracking Index	89				
Longitudinal Cracking Index	92				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0200 LA SAL MOUNTAIN VIEW ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



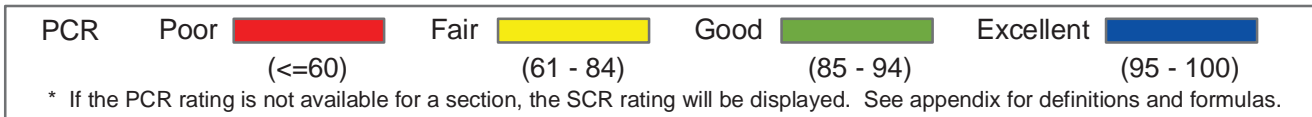
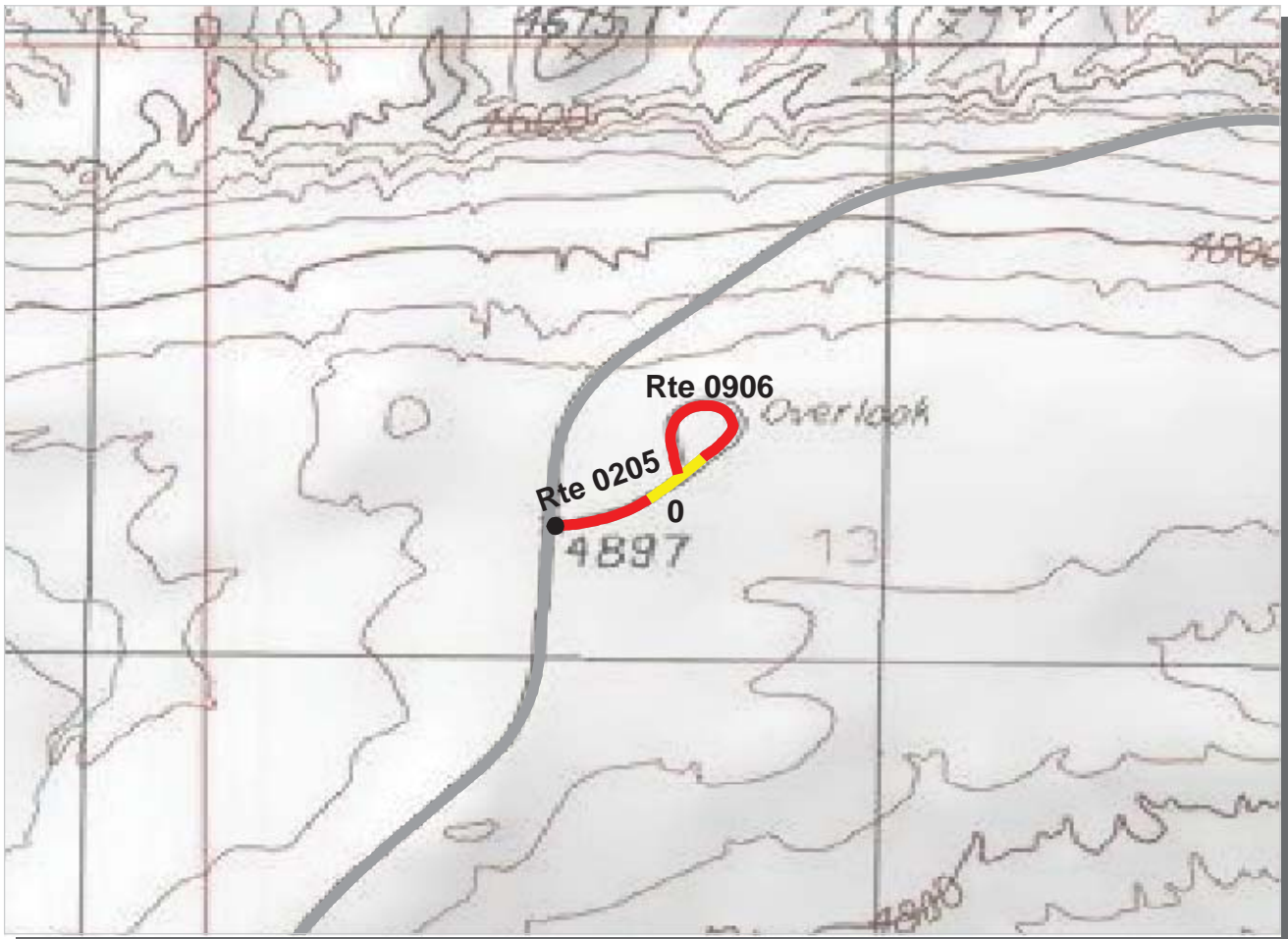
Intermountain Region
ARCH : Arches National Park

ROUTE: 0204 GARDEN OF EDEN OVERLOOK ROAD **TOTAL LENGTH: 0.11 Miles**

Section Number	0				
Section Length (mi)	0.11				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	16				
RCI (Roughness Condition Index)	61				
SCR (Surface Condition Rating)	9				
Alligator Cracking Index	100				
Rutting Index	37				
Patching Index	100				
Transverse Cracking Index	85				
Longitudinal Cracking Index	84				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0204 GARDEN OF EDEN OVERLOOK ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



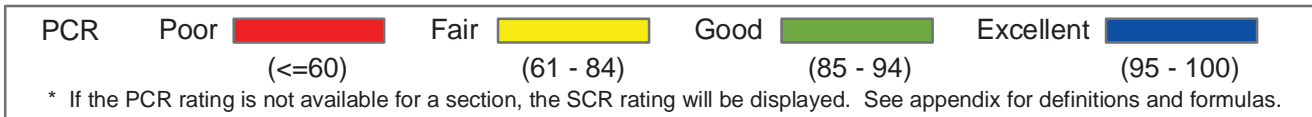
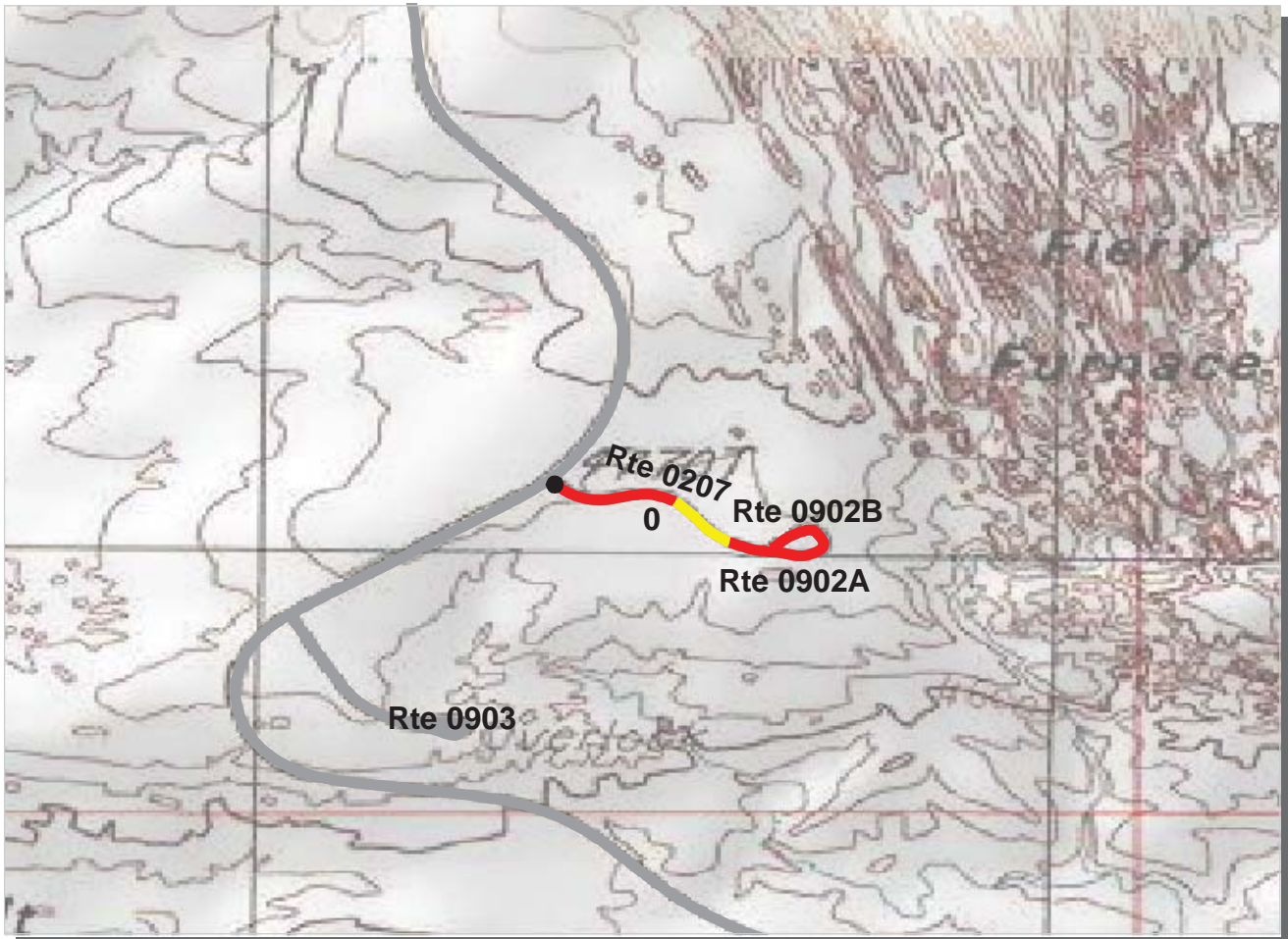
Intermountain Region
ARCH : Arches National Park

ROUTE: 0205 PANORAMA OVERLOOK ROAD **TOTAL LENGTH: 0.31 Miles**

Section Number	0				
Section Length (mi)	0.31				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	52				
RCI (Roughness Condition Index)	77				
SCR (Surface Condition Rating)	49				
Alligator Cracking Index	99				
Rutting Index	75				
Patching Index	100				
Transverse Cracking Index	84				
Longitudinal Cracking Index	89				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0205 PANORAMA OVERLOOK ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



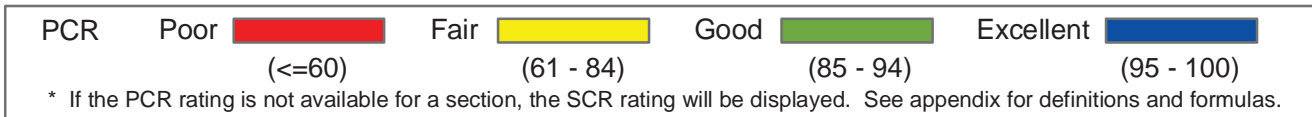
Intermountain Region
ARCH : Arches National Park

ROUTE: 0207 FIERY FURNACE ROAD **TOTAL LENGTH: 0.31 Miles**

Section Number	0				
Section Length (mi)	0.31				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	51				
RCI (Roughness Condition Index)	84				
SCR (Surface Condition Rating)	47				
Alligator Cracking Index	100				
Rutting Index	69				
Patching Index	100				
Transverse Cracking Index	84				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0207 FIERY FURNACE ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



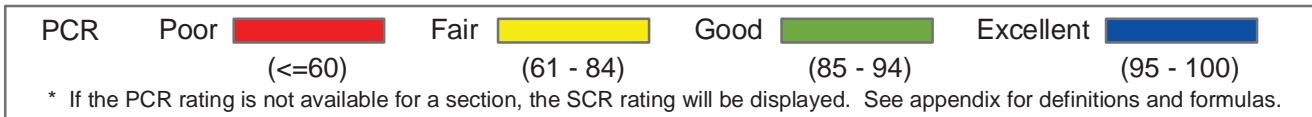
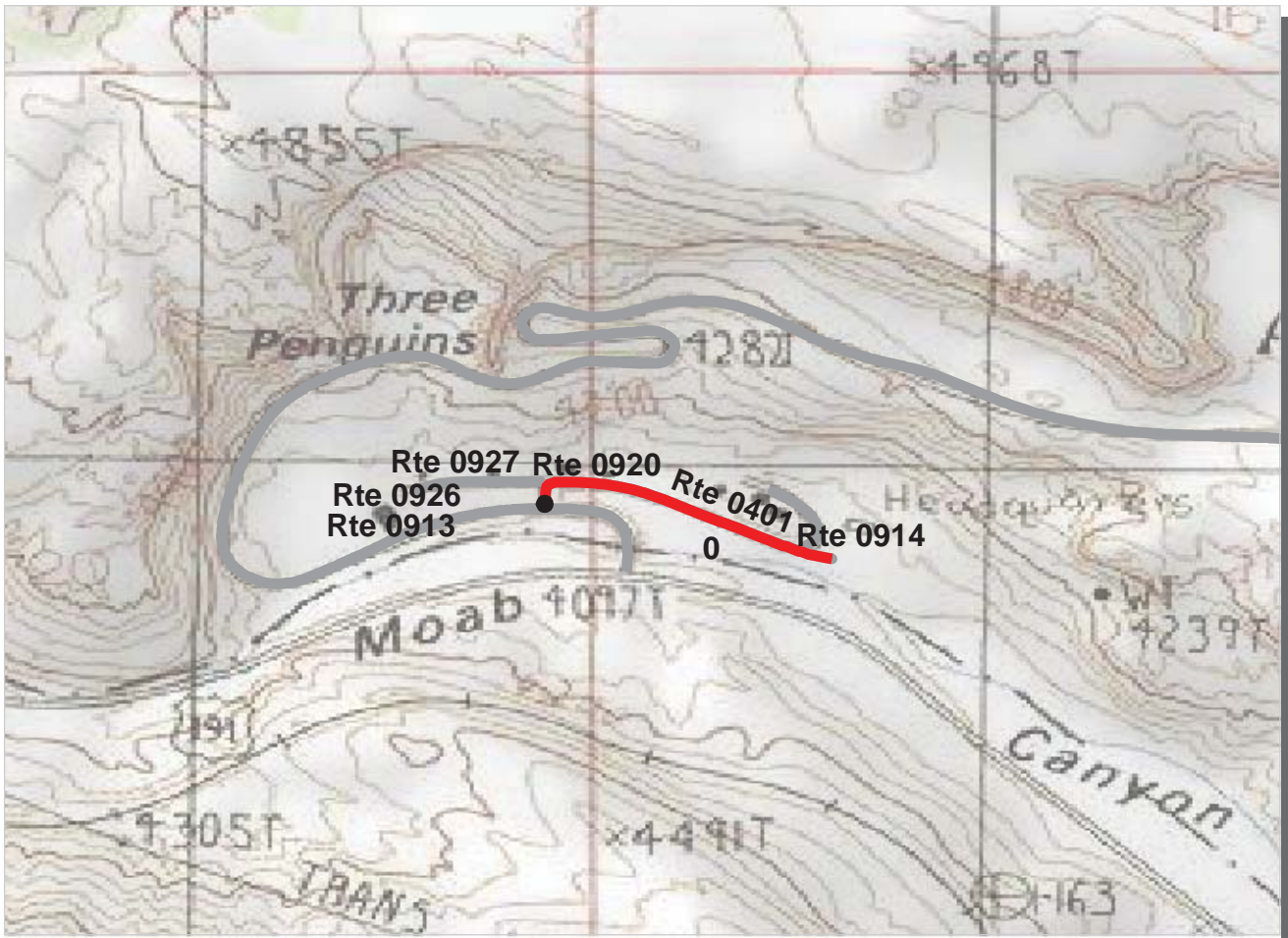
Intermountain Region
ARCH : Arches National Park

ROUTE: 0208 DEVIL'S GARDEN CAMPGROUND ROAD **TOTAL LENGTH: 0.78 Miles**

Section Number	0				
Section Length (mi)	0.78				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	10				
Shoulder Width (ft)	6				
Roadway Condition Information					
PCR (Pavement Condition Rating)	37				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	37				
Alligator Cracking Index	100				
Rutting Index	51				
Patching Index	99				
Transverse Cracking Index	89				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0208 DEVIL'S GARDEN CAMPGROUND ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



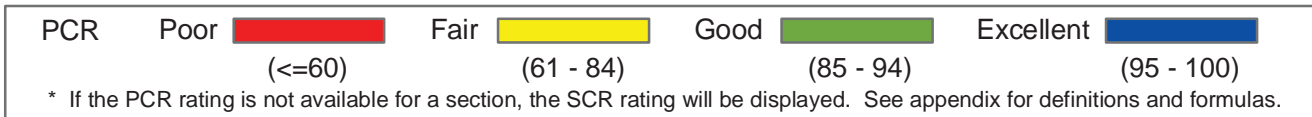
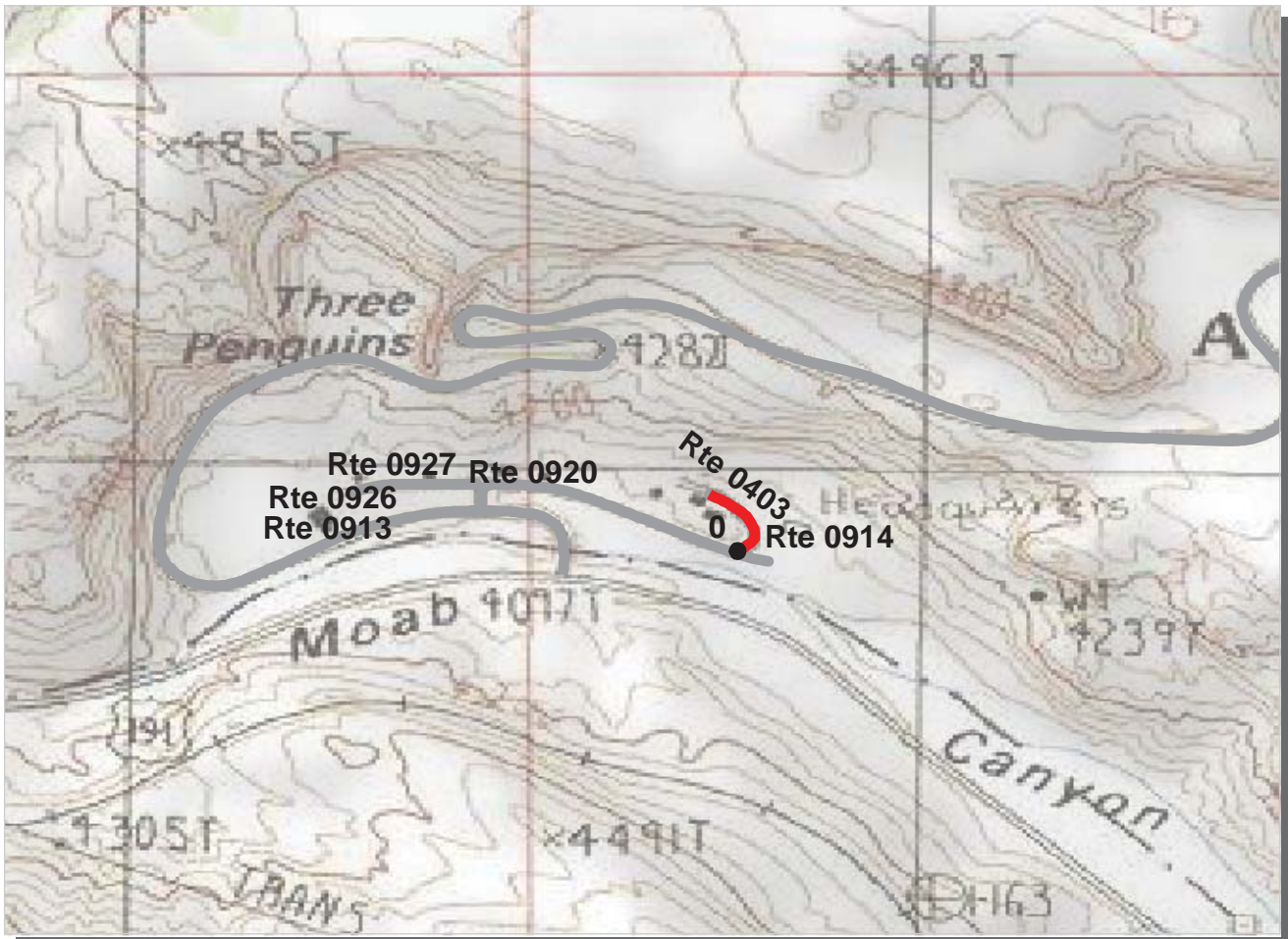
Intermountain Region
ARCH : Arches National Park

ROUTE: 0401 ADMINISTRATIVE MAINTENANCE ROAD TOTAL LENGTH: 0.28 Miles

Section Number	0				
Section Length (mi)	0.28				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	19				
RCI (Roughness Condition Index)	69				
SCR (Surface Condition Rating)	12				
Alligator Cracking Index	98				
Rutting Index	34				
Patching Index	100				
Transverse Cracking Index	81				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0401 ADMINISTRATIVE MAINTENANCE ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



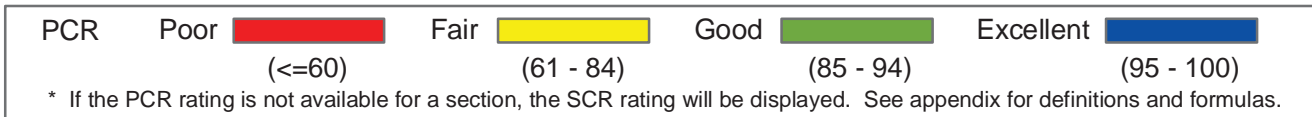
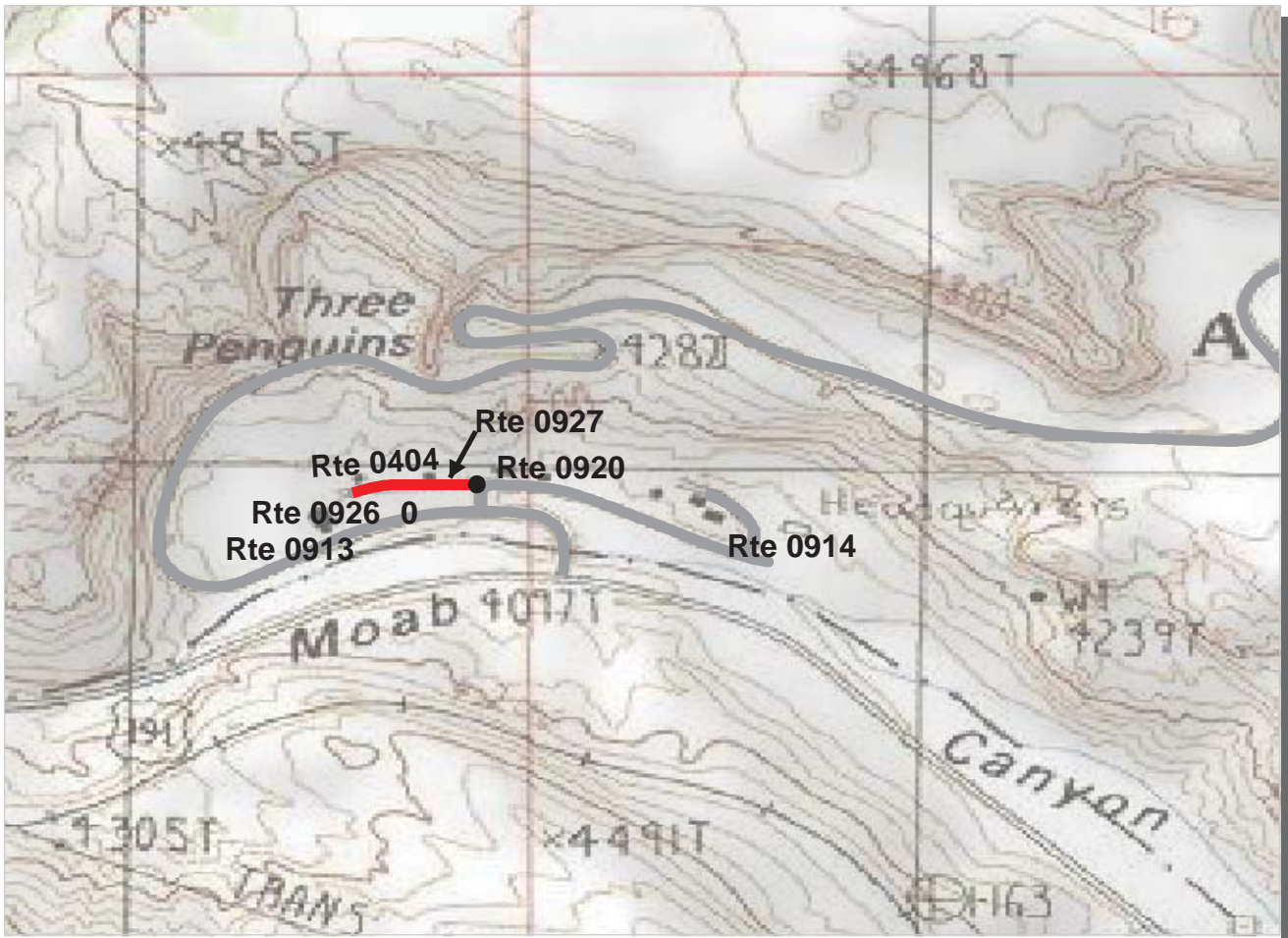
Intermountain Region
ARCH : Arches National Park

ROUTE: 0403 ARCHES RESIDENCE AREA ROAD **TOTAL LENGTH: 0.10 Miles**

Section Number	0				
Section Length (mi)	0.10				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	16				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	23				
RCI (Roughness Condition Index)	41				
SCR (Surface Condition Rating)	22				
Alligator Cracking Index	99				
Rutting Index	38				
Patching Index	100				
Transverse Cracking Index	89				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0403 ARCHES RESIDENCE AREA ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



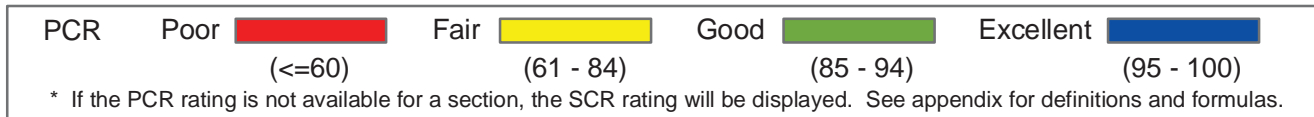
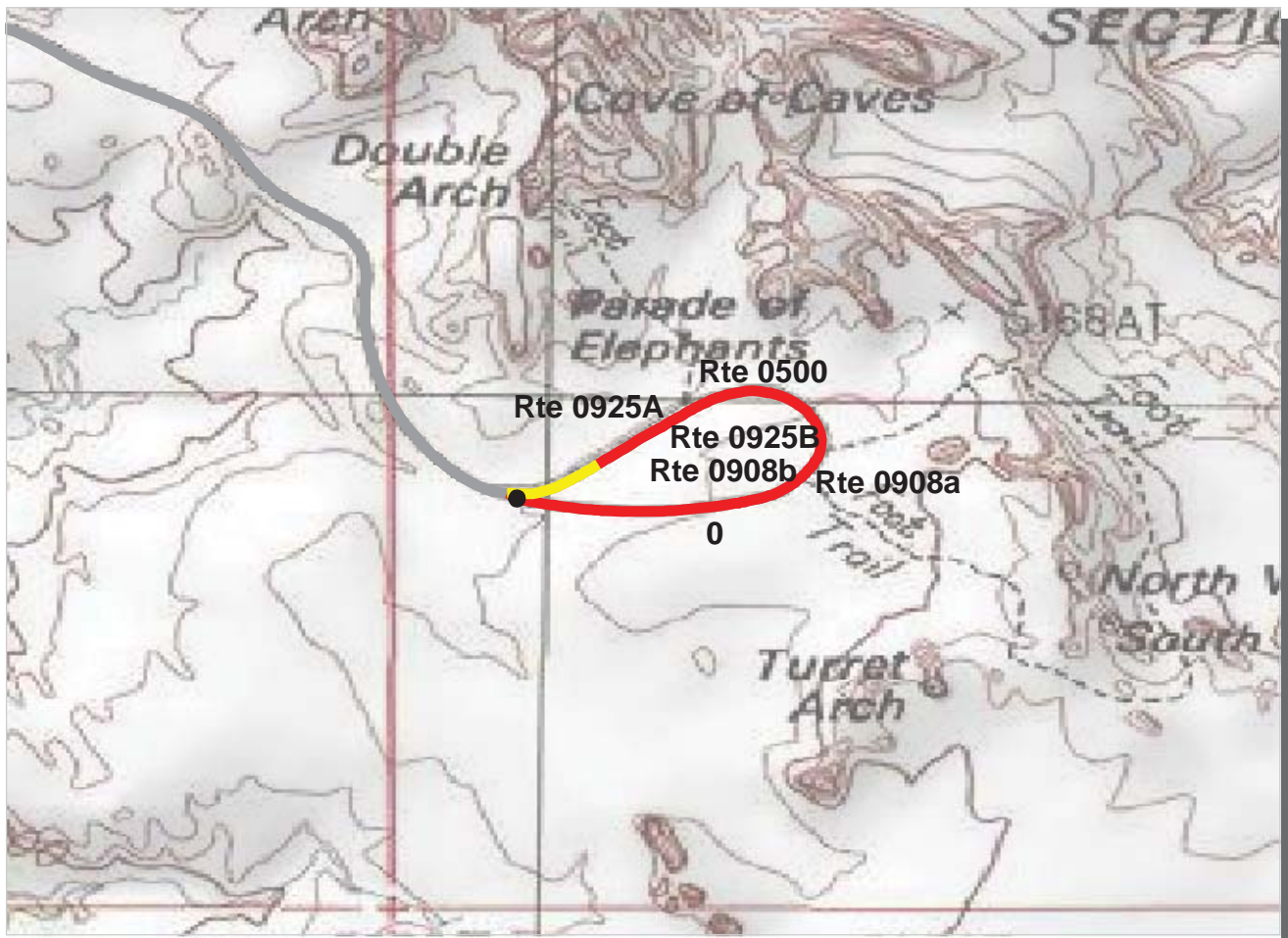
Intermountain Region
ARCH : Arches National Park

ROUTE: 0404 ADMINISTRATION ROAD **TOTAL LENGTH: 0.11 Miles**

Section Number	0				
Section Length (mi)	0.11				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	37				
RCI (Roughness Condition Index)	56				
SCR (Surface Condition Rating)	25				
Alligator Cracking Index	100				
Rutting Index	42				
Patching Index	100				
Transverse Cracking Index	86				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0404 ADMINISTRATION ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



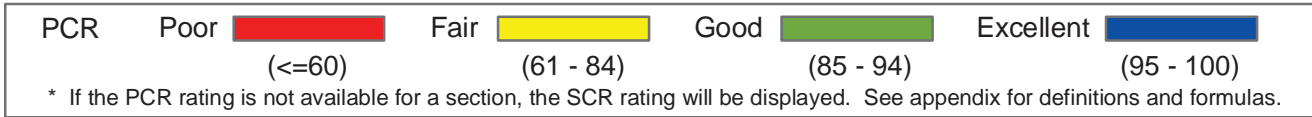
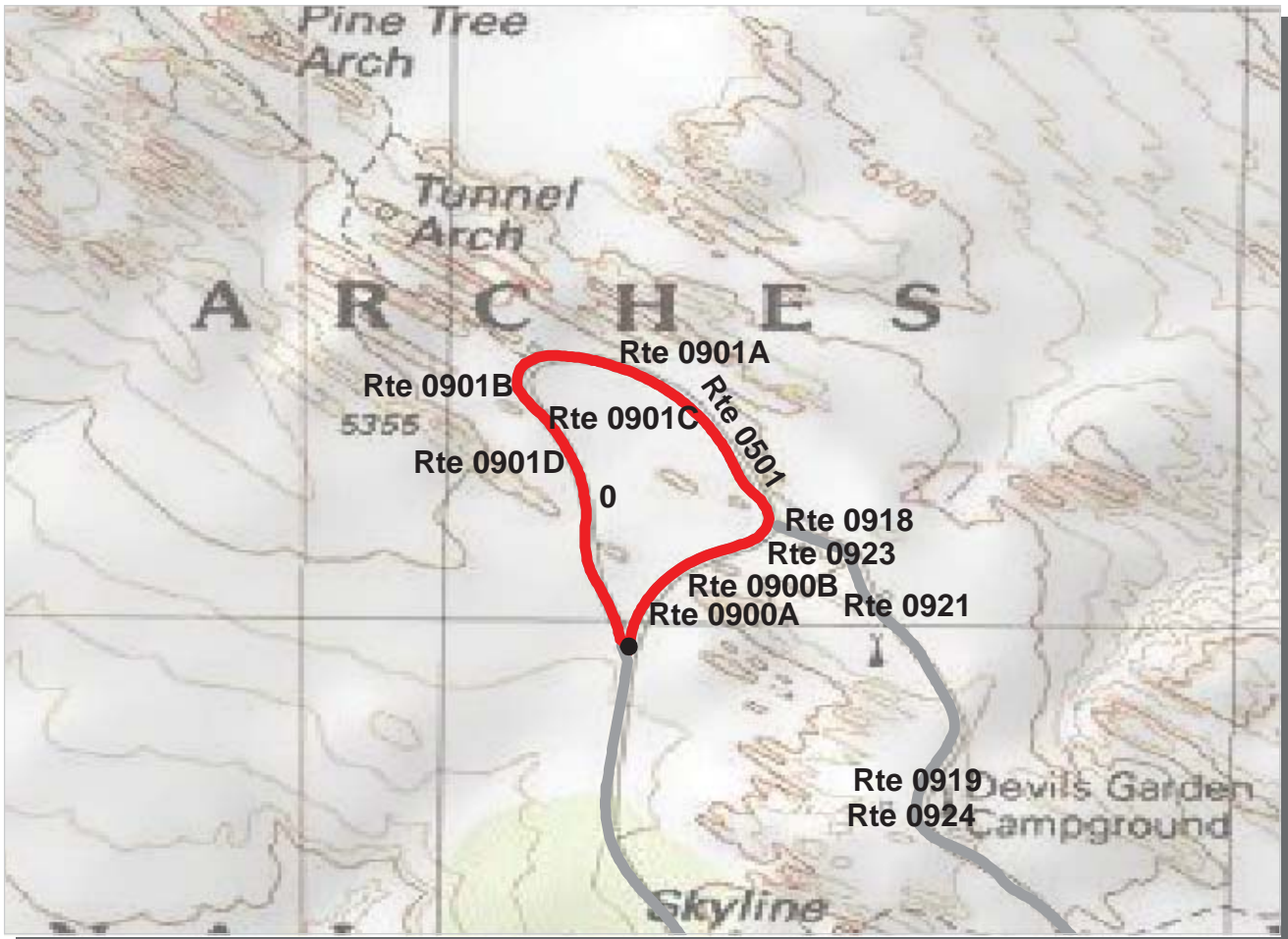
Intermountain Region
ARCH : Arches National Park

ROUTE: 0500 WINDOWS LOOP **TOTAL LENGTH: 0.59 Miles**

Section Number	0				
Section Length (mi)	0.59				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	38				
RCI (Roughness Condition Index)	78				
SCR (Surface Condition Rating)	28				
Alligator Cracking Index	100				
Rutting Index	40				
Patching Index	100				
Transverse Cracking Index	92				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0500 WINDOWS LOOP

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Intermountain Region
ARCH : Arches National Park

ROUTE: 0501 DEVIL'S GARDEN LOOP **TOTAL LENGTH: 0.77 Miles**

Section Number	0				
Section Length (mi)	0.77				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	31				
RCI (Roughness Condition Index)	77				
SCR (Surface Condition Rating)	16				
Alligator Cracking Index	99				
Rutting Index	46				
Patching Index	99				
Transverse Cracking Index	85				
Longitudinal Cracking Index	85				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0501 DEVIL'S GARDEN LOOP

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>

ARCH: Manually Rated Paved Route Condition Rating Sheets

No data available for this section

Arches National Park

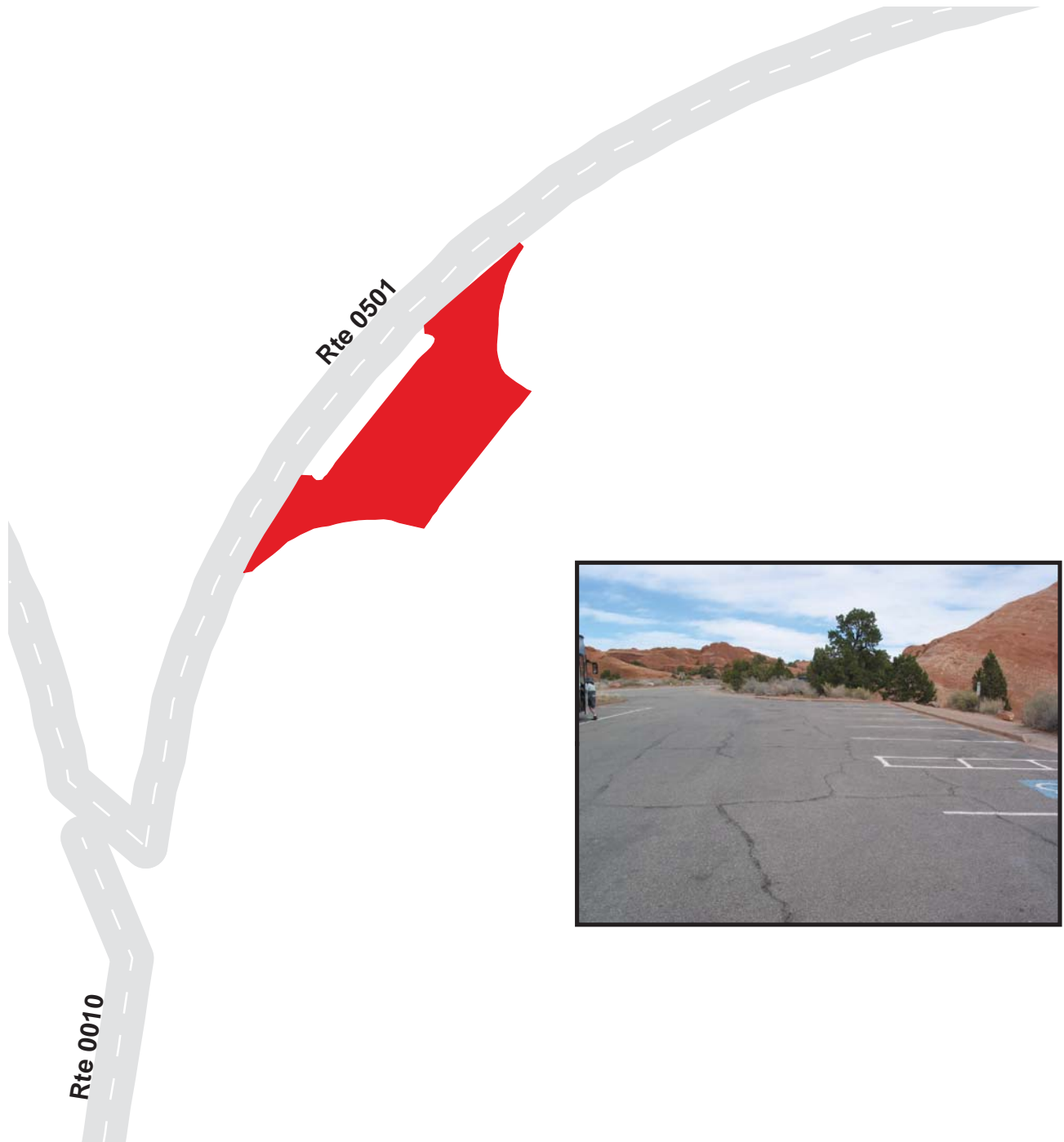
Route 0900A

DEVILS GARDEN PICNIC PARKING A

Adjacent to Route 0501 at MP 0.04

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900A	Public	4/1/2003	8370	0.14	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

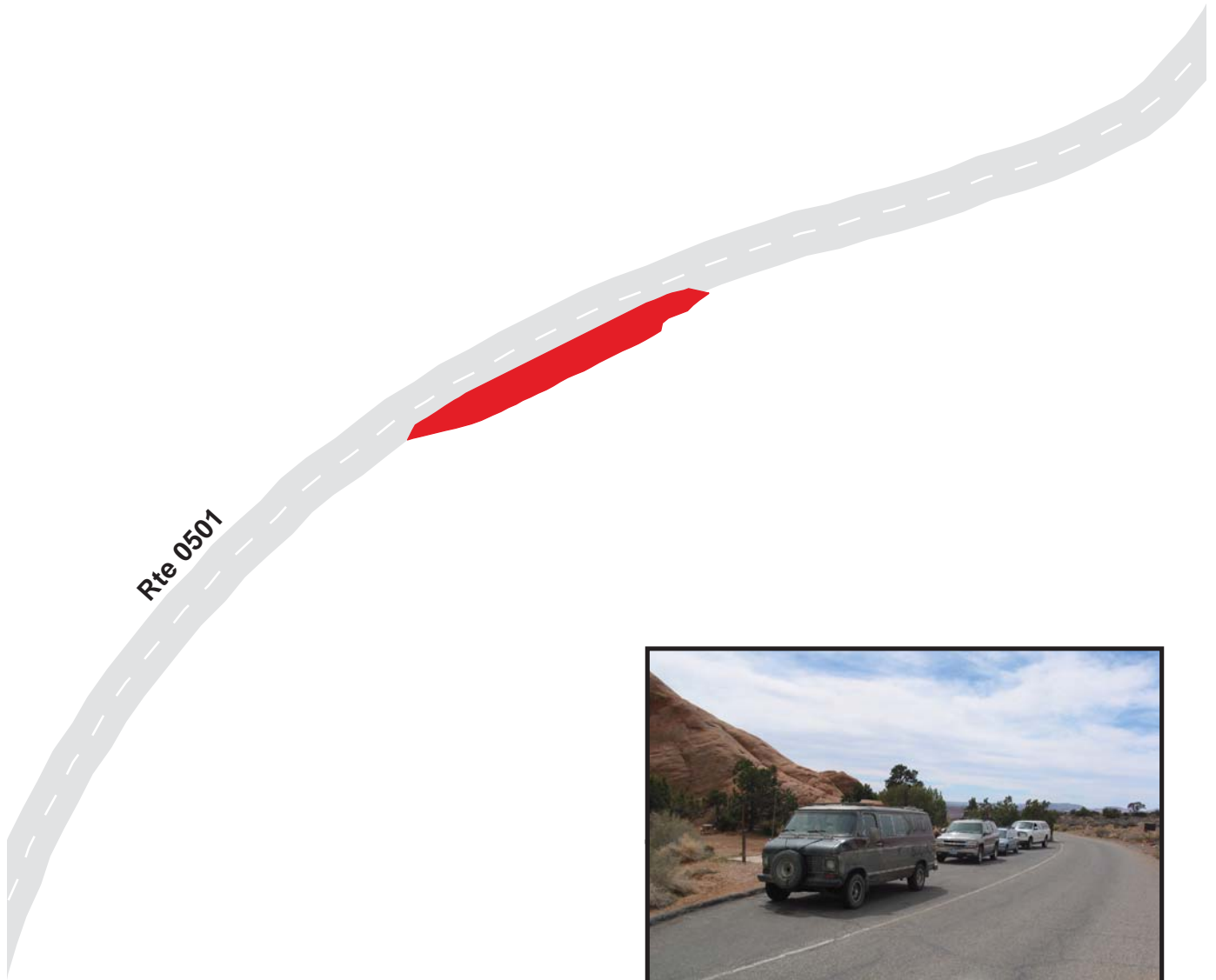
Route 0900B

DEVILS GARDEN PICNIC PARKING B

Adjacent to Route 0501 at MP 0.1

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900B	Public	4/1/2003	2319	0.04	AS	FAIR / 73

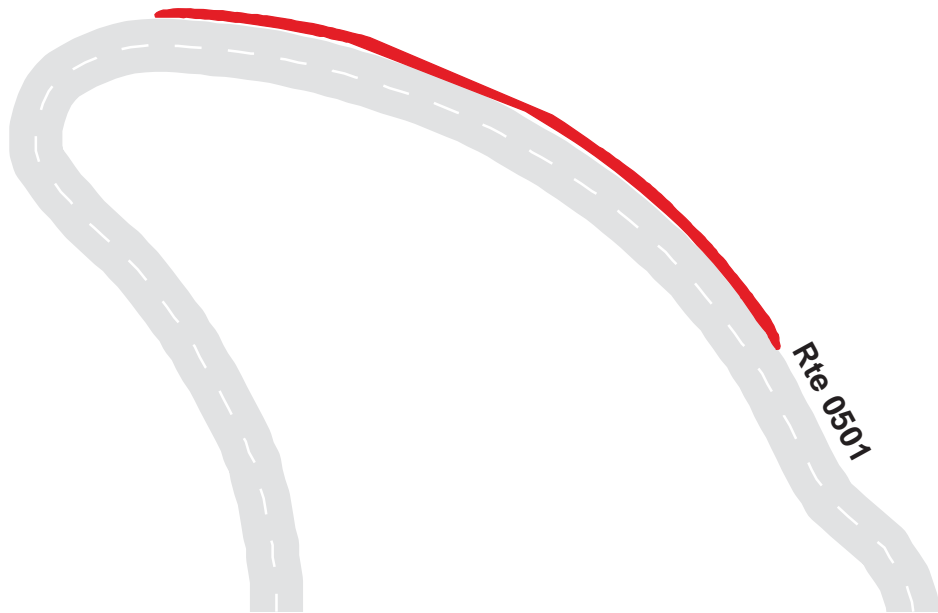
* Lane miles are based on 11' lane widths



Arches National Park
Route 0901A
 DEVILS GARDEN PARKING A
 Adjacent to Route 0501 at MP 0.34 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901A	Public	4/1/2003	13346	0.23	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

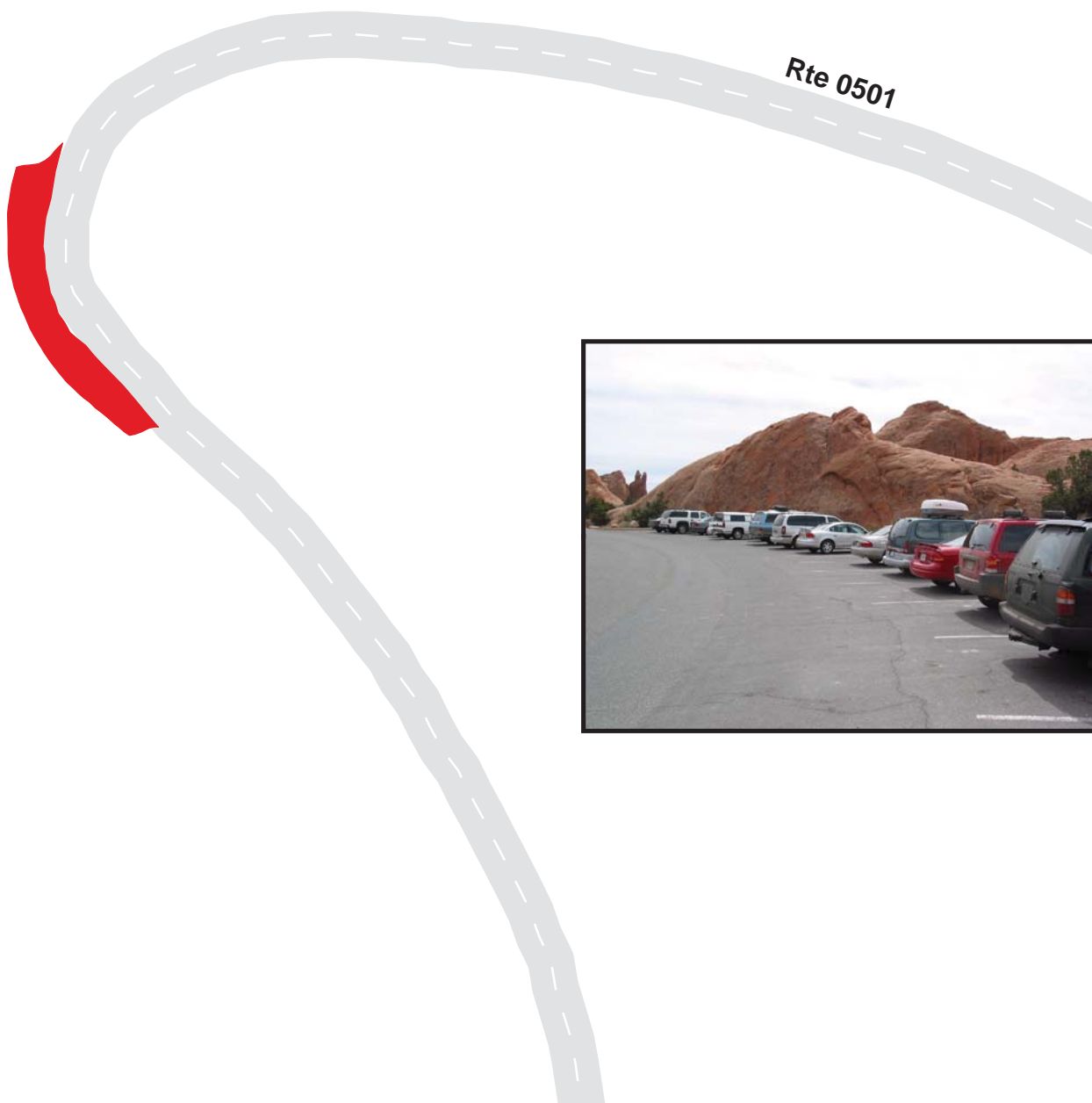
Route 0901B

DEVILS GARDEN PARKING B

Adjacent to Route 0501 at MP 0.48 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901B	Public	4/1/2003	4081	0.07	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

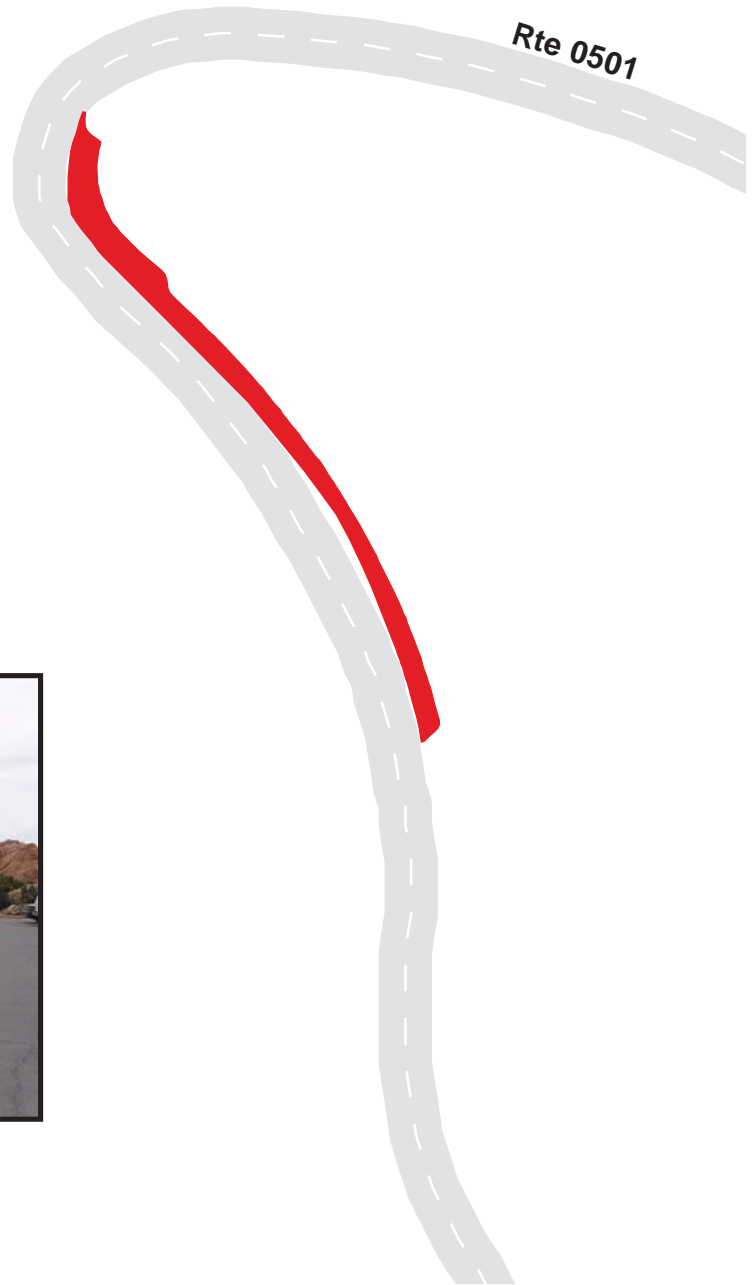
Route 0901C

DEVILS GARDEN PARKING C

Adjacent to Route 0501 at MP 0.48 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901C	Public	4/1/2003	12030	0.21	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

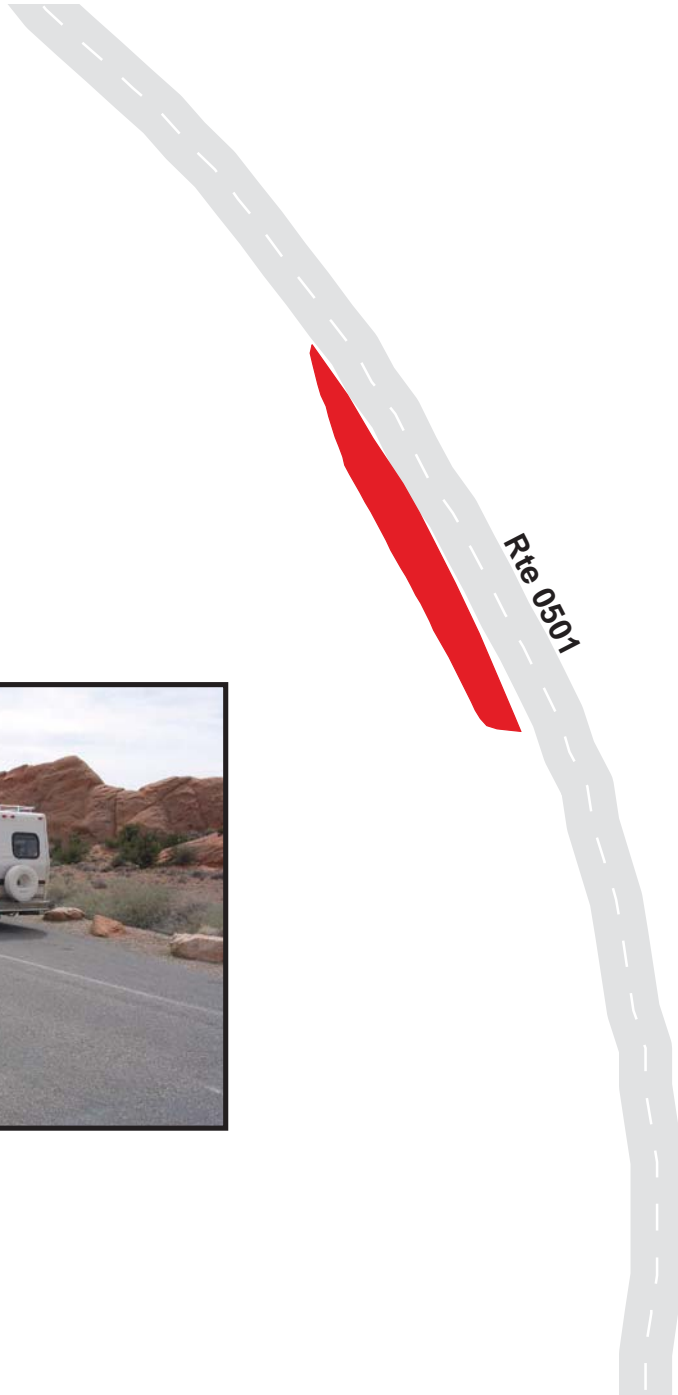
Route 0901D

DEVILS GARDEN PARKING D

Adjacent to Route 0501 at MP 0.56 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901D	Public	4/1/2003	2625	0.05	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

Route 0902A

FIERY FURNACE PARKING A
Adjacent to Route 0207 at End loop

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902A	Public	4/1/2003	3417	0.06	AS	GOOD / 90

* Lane miles are based on 11' lane widths



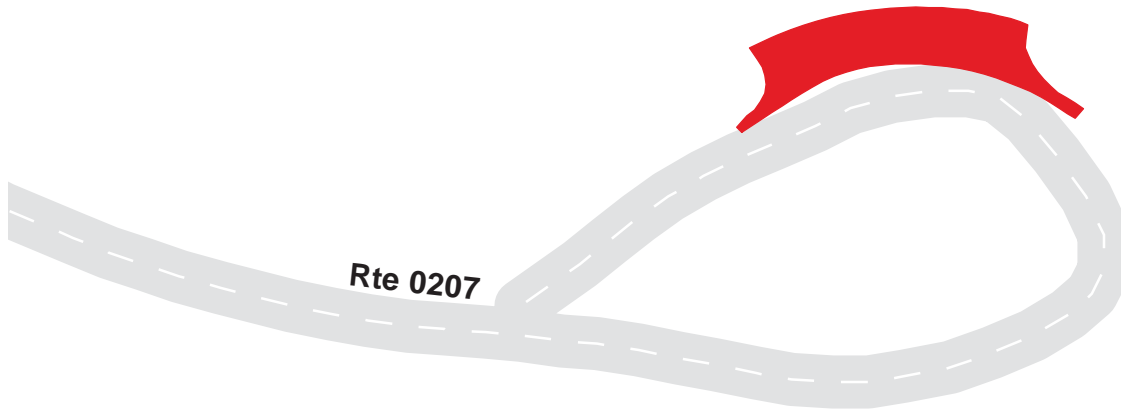
Arches National Park

Route 0902B

FIERY FURNACE PARKING B
Adjacent to Route 0207 at End loop

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902B	Public	4/1/2003	3089	0.05	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

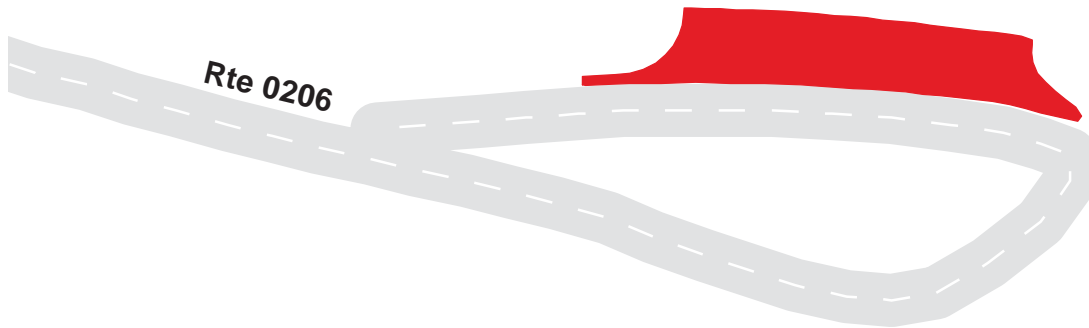
Route 0903

SALT VALLEY OVERLOOK PARKING

Adjacent to Route 0206 at End loop

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	Public	4/1/2003	3042	0.05	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

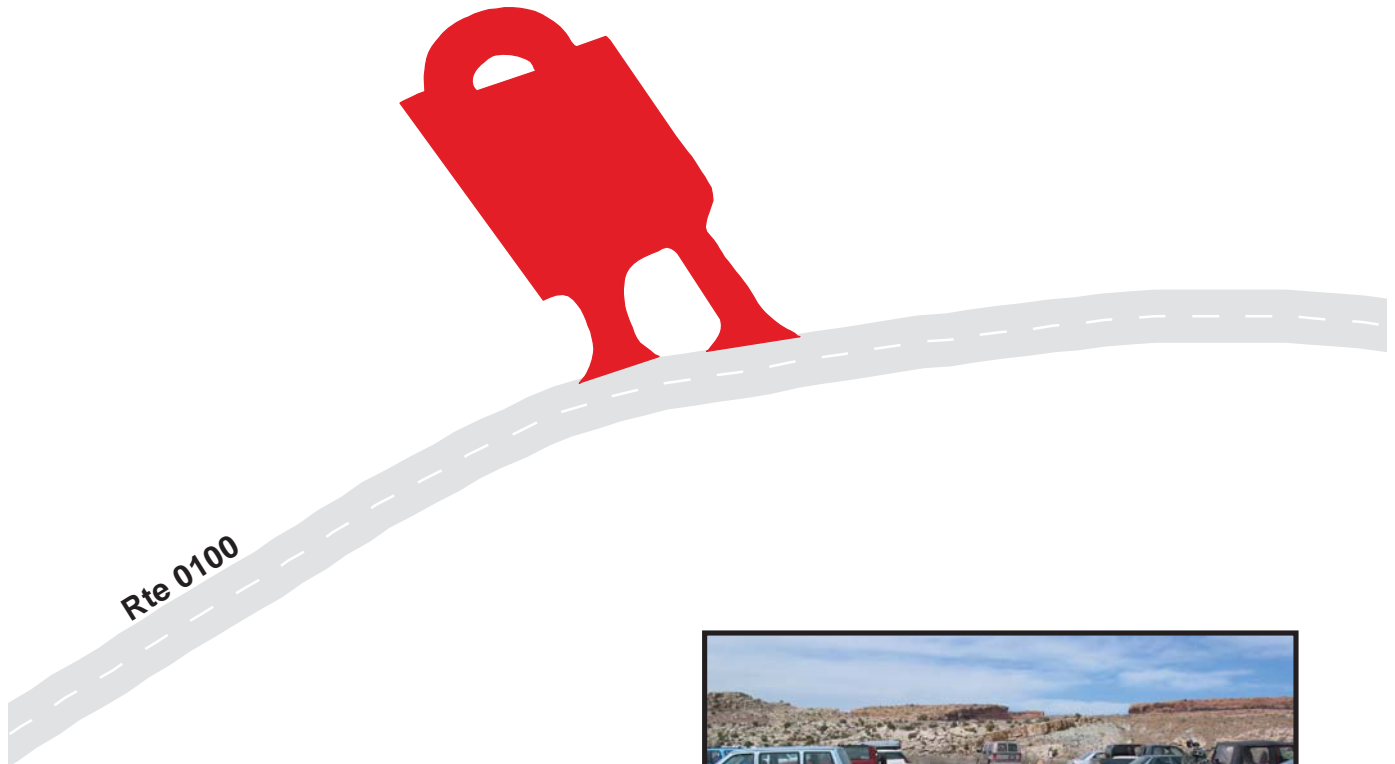
Route 0904A

WOLFE RANCH PARKING NORTH

Adjacent to Route 0100 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904A	Public	4/1/2003	24347	0.42	AS	GOOD / 90

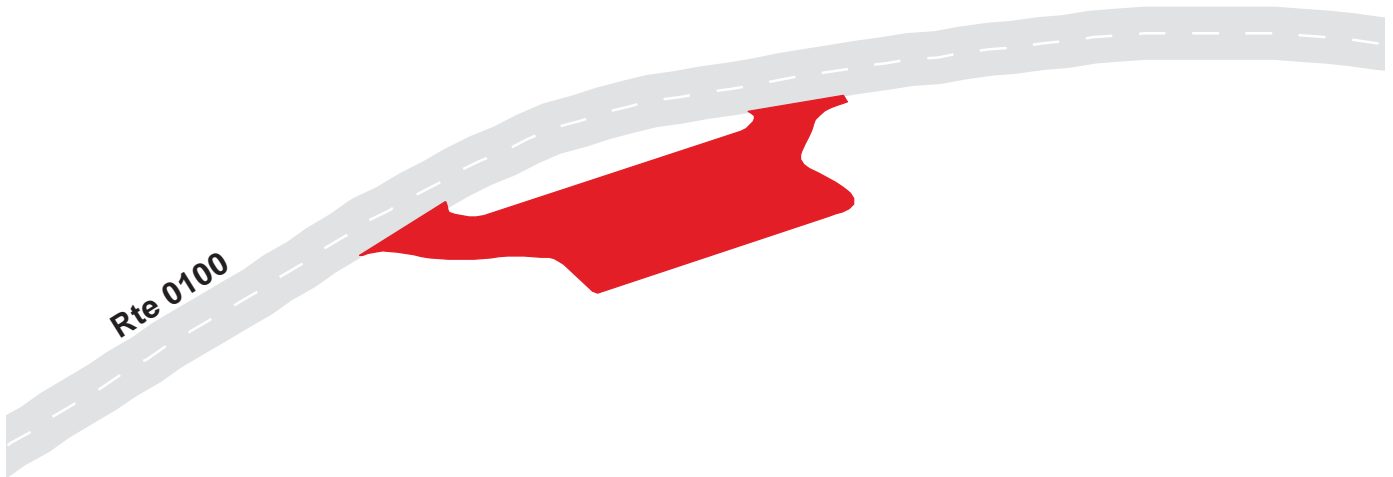
* Lane miles are based on 11' lane widths



Arches National Park
Route 0904B
WOLFE RANCH PARKING SOUTH
Adjacent to Route 0100 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904B	Public	4/1/2003	14636	0.25	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

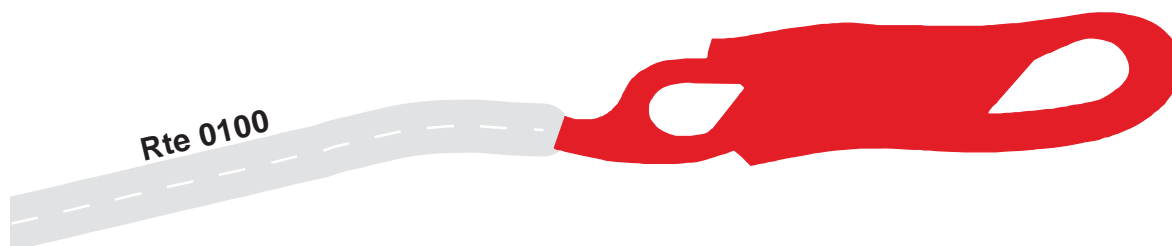
Route 0905

DELICATE ARCH ROAD VIEWPOINT PARKING

At End of Route 0100

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	Public	4/1/2003	56779	0.98	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

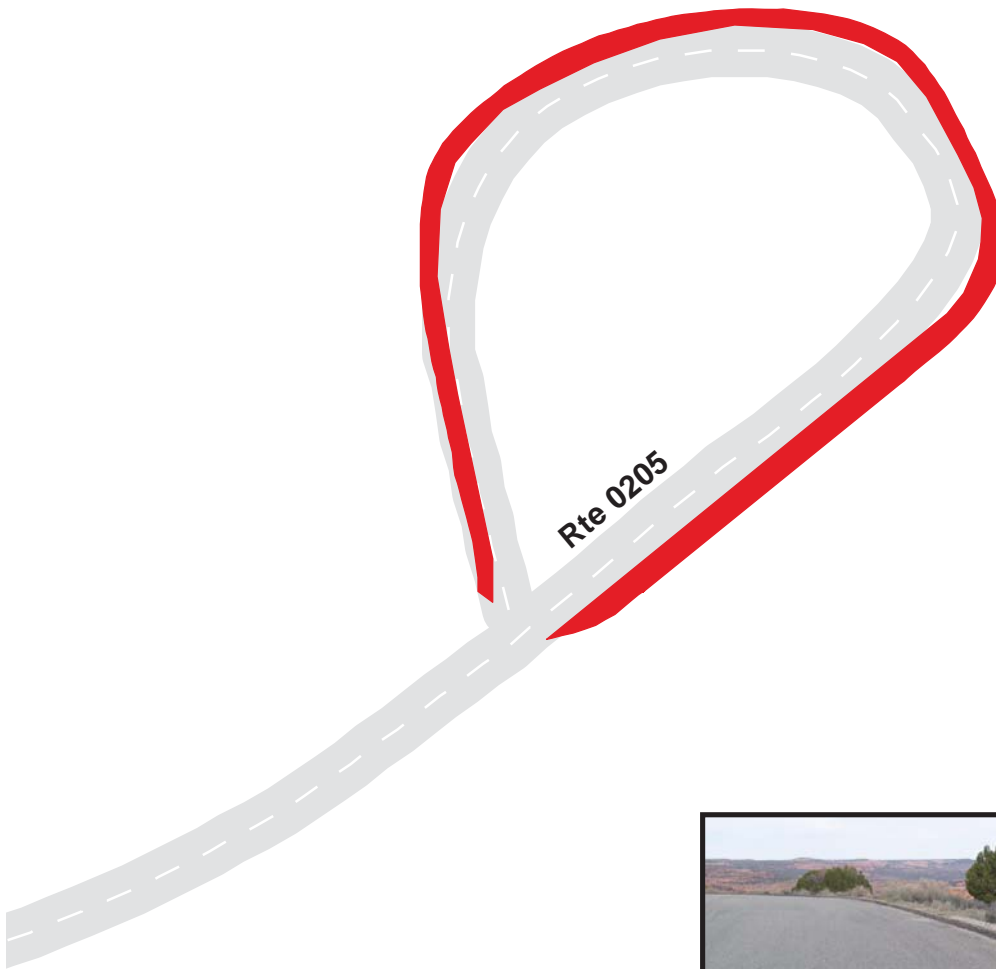
Route 0906

PANORAMA POINT PARKING

Adjacent to Route 0205 at End loop

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	4/1/2003	11908	0.21	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park
Route 0907
 GARDEN OF EDEN PARKING
 At End of Route 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	4/1/2003	10340	0.18	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

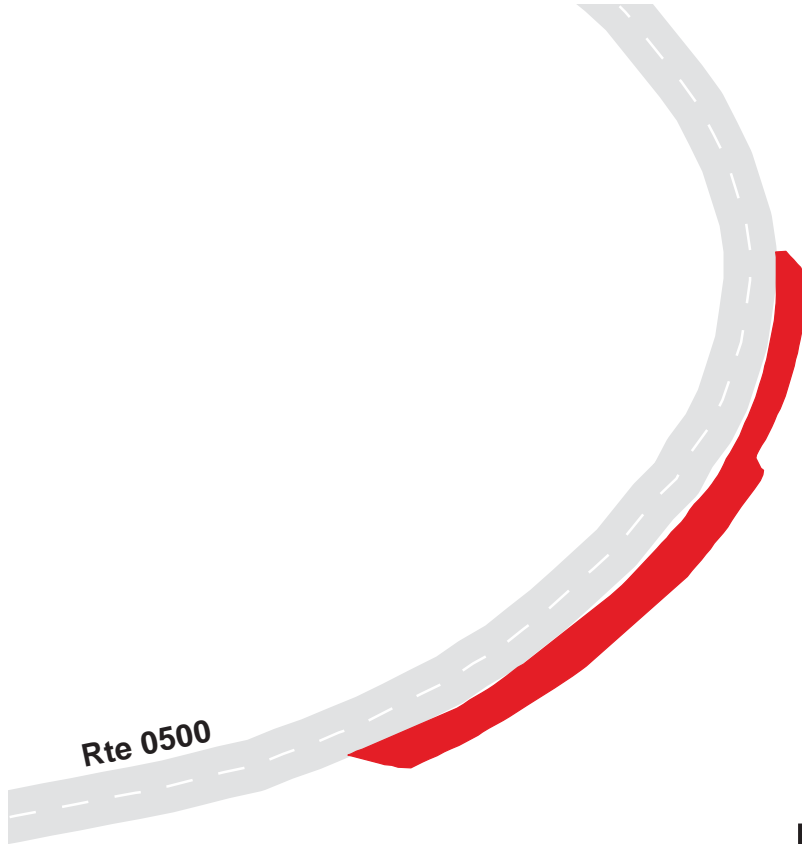
Route 0908A

WINDOWS PARKING A

Adjacent to Route 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908A	Public	4/1/2003	6777	0.12	OC	FAIR / 73

* Lane miles are based on 11' lane widths



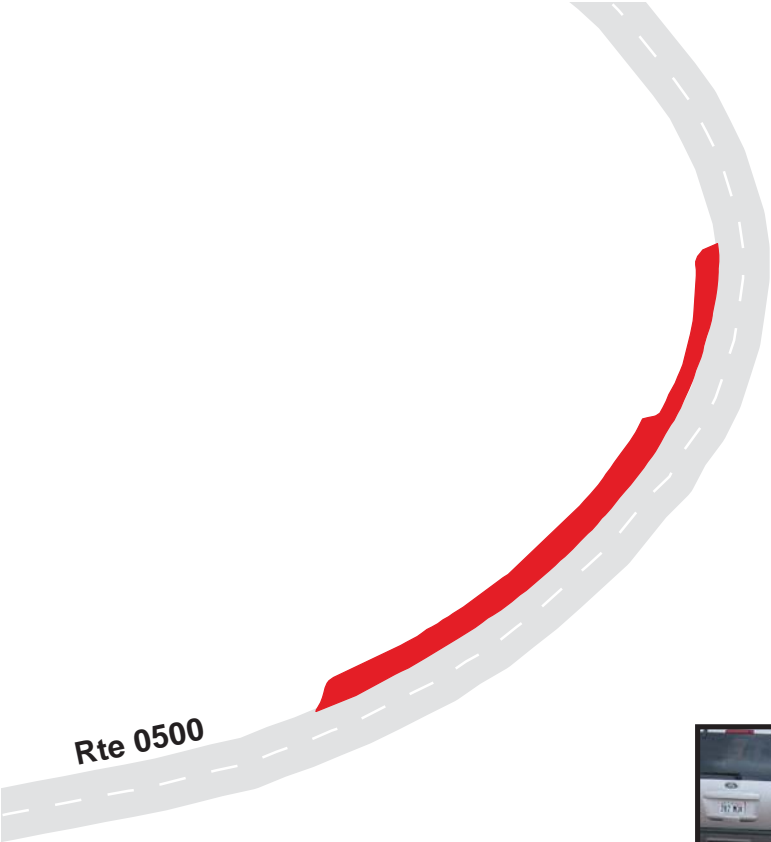
Arches National Park

Route 0908B

WINDOWS PARKING B
Adjacent to Route 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908B	Public	4/1/2003	4006	0.07	OC	FAIR / 73

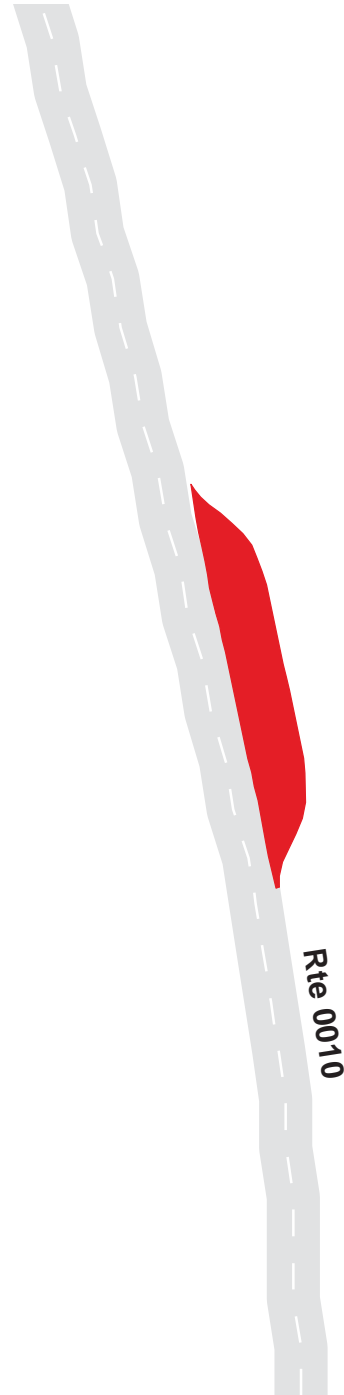
* Lane miles are based on 11' lane widths



Arches National Park
Route 0909
 PETRIFIED DUNES PARKING
 Adjacent to Route 0010 at MP 6.2

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	4/1/2003	1895	0.03	AS	FAIR / 73

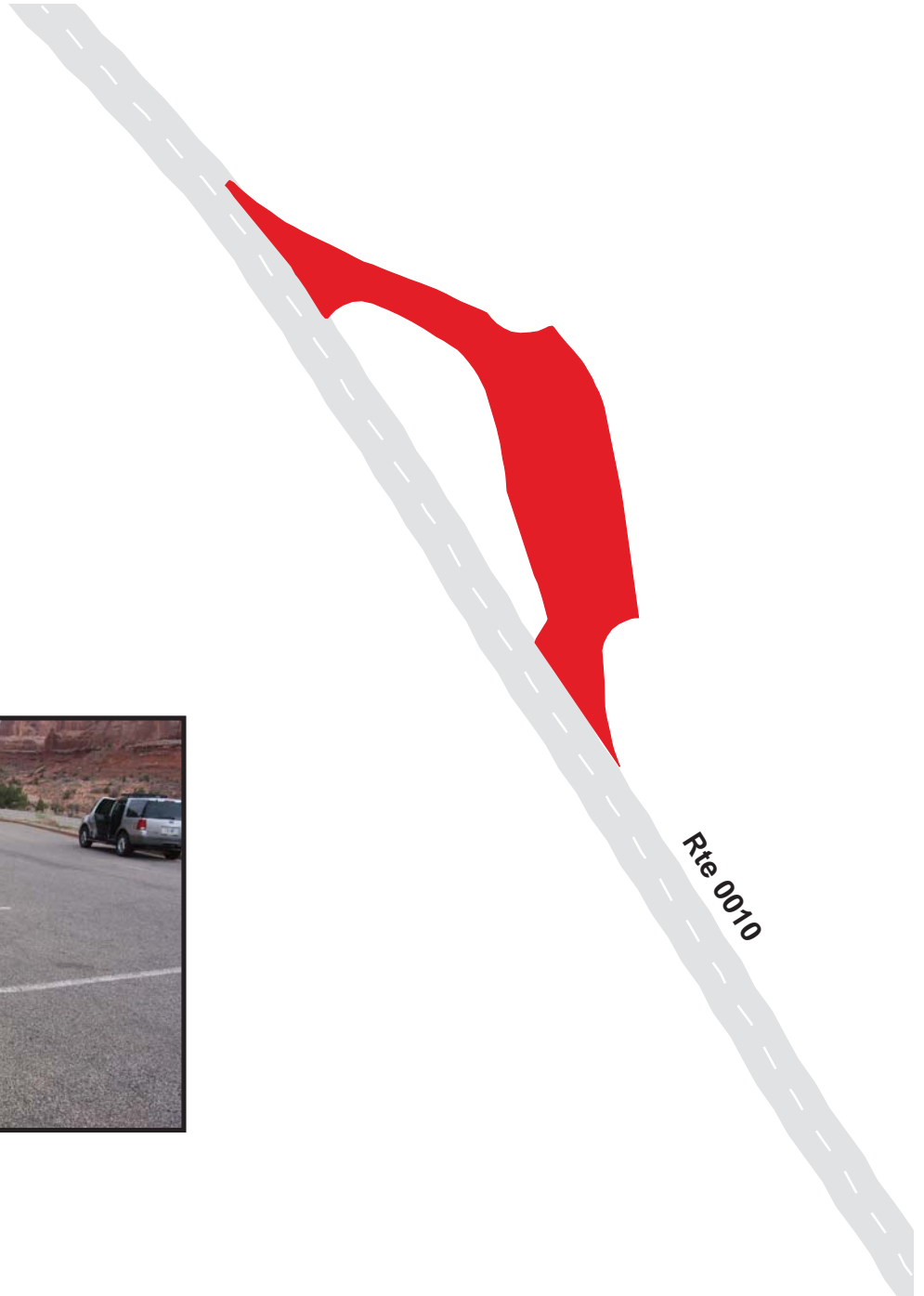
* Lane miles are based on 11' lane widths



Arches National Park
Route 0910
 COURTHOUSE TOWERS PARKING
 Adjacent to Route 0010 at MP 3.8

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	Public	4/1/2003	14585	0.25	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

Route 0911

LA SAL MOUNTAIN VIEW PARKING

At End of Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	4/1/2003	16570	0.29	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park
Route 0912
PARK AVENUE PARKING
Adjacent to Route 0010 at MP 2.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	4/1/2003	16977	0.29	OC	GOOD / 90

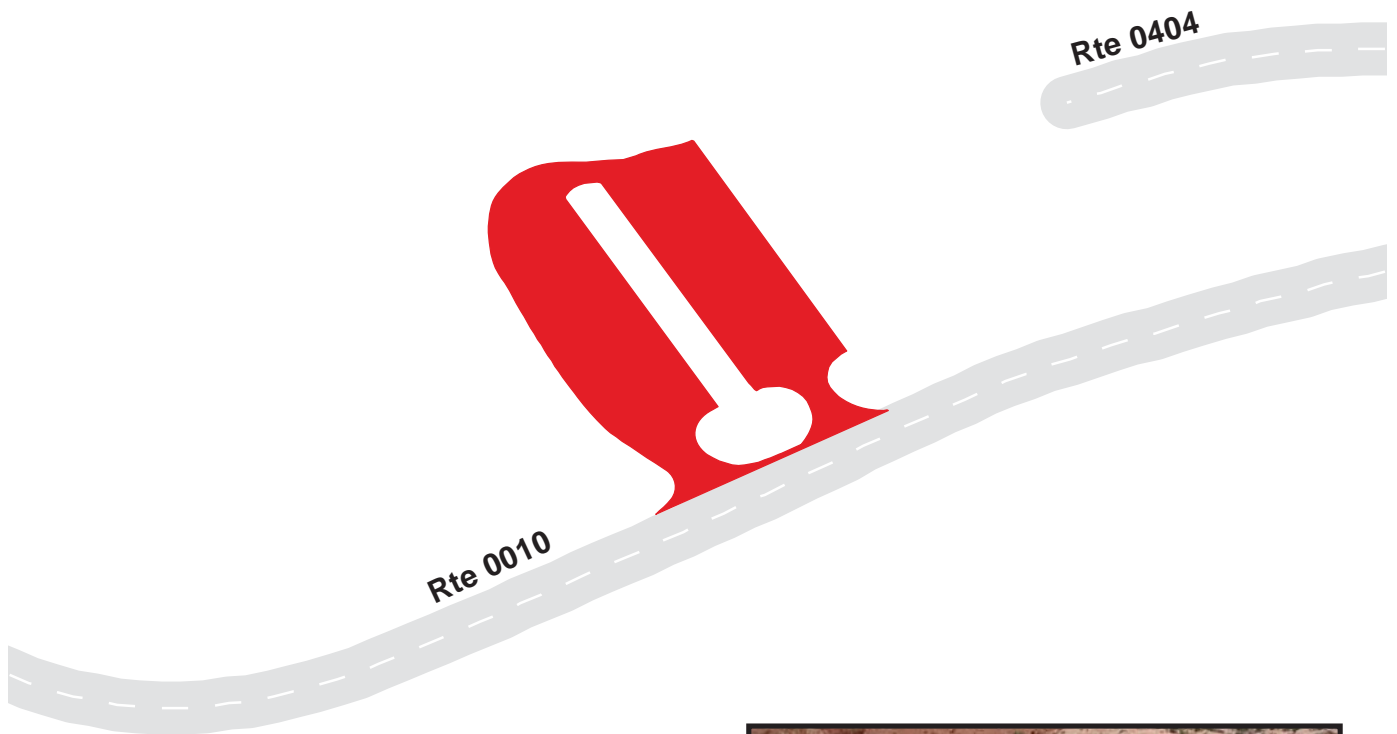
* Lane miles are based on 11' lane widths



Arches National Park
Route 0913
 VISITOR CENTER PARKING
 Adjacent to Route 0010 at MP 0.3

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	4/1/2003	34025	0.59	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

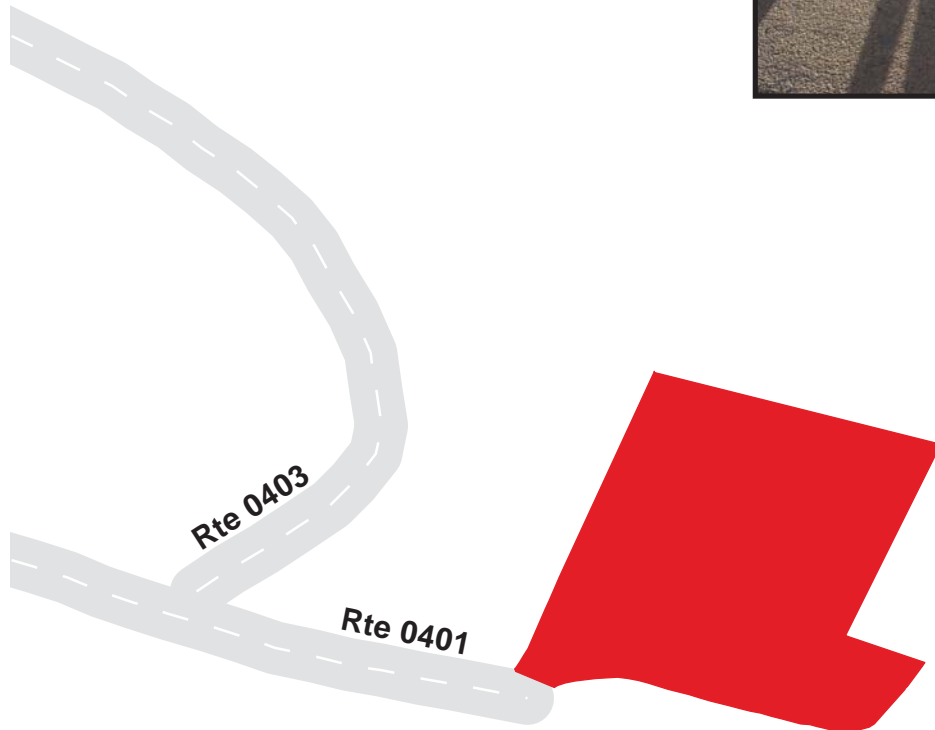
Route 0914

MAINTENANCE PARKING

At End of Route 0401

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	Public	4/1/2003	18585	0.32	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park
Route 0915
 BALANCED ROCK PARKING
 Adjacent to Route 0010 at MP 9.1

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	4/1/2003	13407	0.23	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

Route 0916

SAND DUNES ARCH PARKING
Adjacent to Route 0010 at MP 16.16

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	Public	4/1/2003	5897	0.10	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park

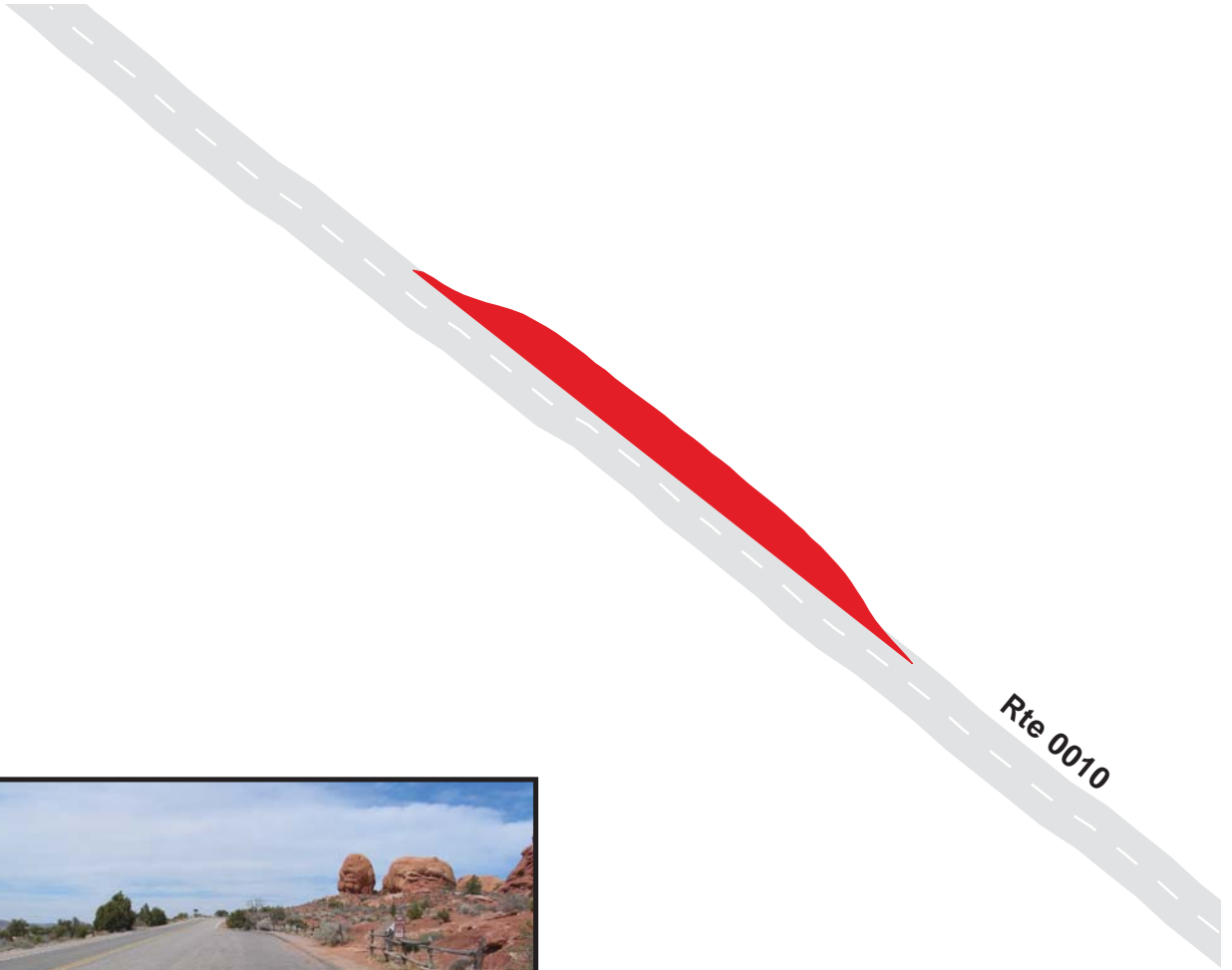
Route 0917

SKYLINE ARCH TRAILHEAD PARKING

Adjacent to Route 0010 at MP 16.9

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	Public	4/1/2003	3042	0.05	OC	GOOD / 90

* Lane miles are based on 11' lane widths



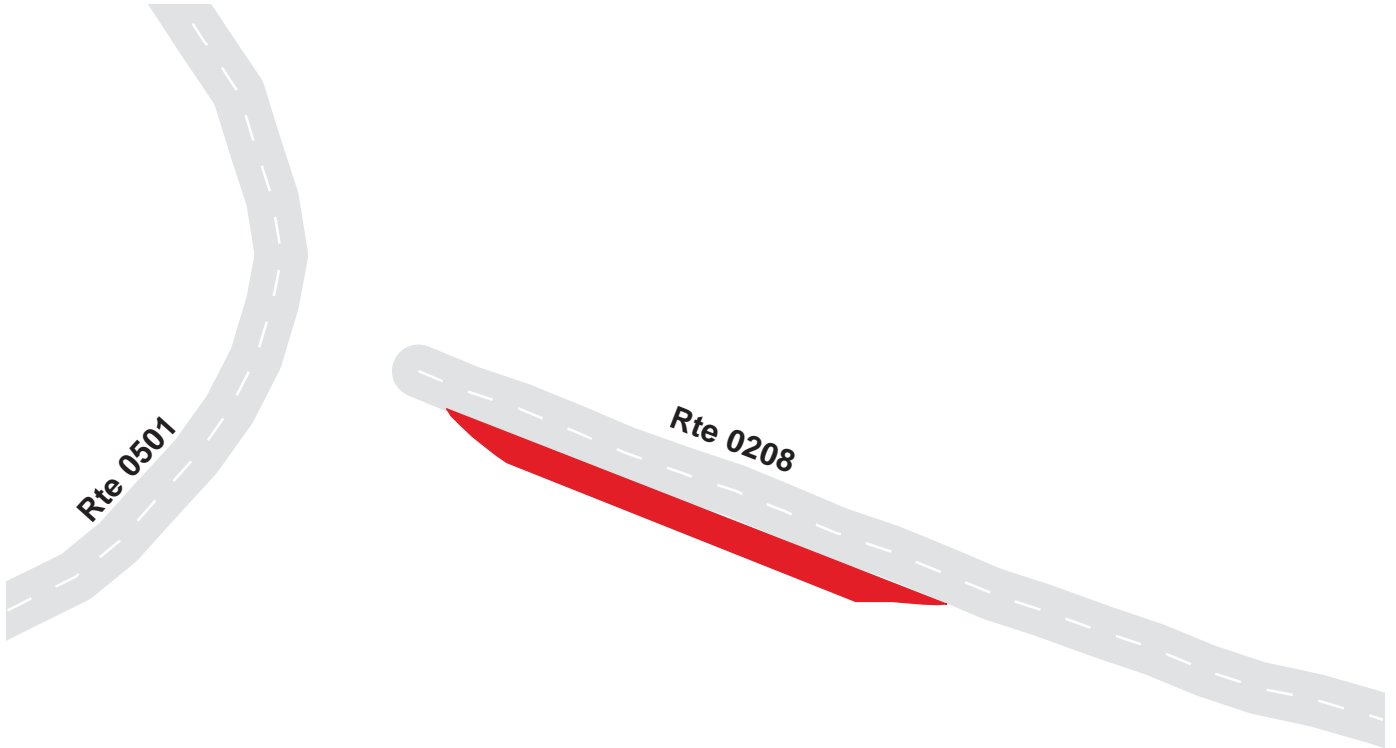
Arches National Park

Route 0918

CAMPGROUND REGISTRATION PARKING Adjacent to Route 0208

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918	Public	4/1/2003	1123	0.02	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

Route 0919

CANYON WREN GROUP CAMPGROUND PARKING

Adjacent to Route 0208

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	4/1/2003	3779	0.07	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

Route 0920

RESIDENTIAL PARKING

Adjacent to Route 0401

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920	NonPublic	4/1/2003	2295	0.04	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Arches National Park
Route 0921
 CAMPGROUND RESTROOM PARKING
 Adjacent to Route 0208

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921	Public	4/1/2003	849	0.01	AS	FAIR / 73

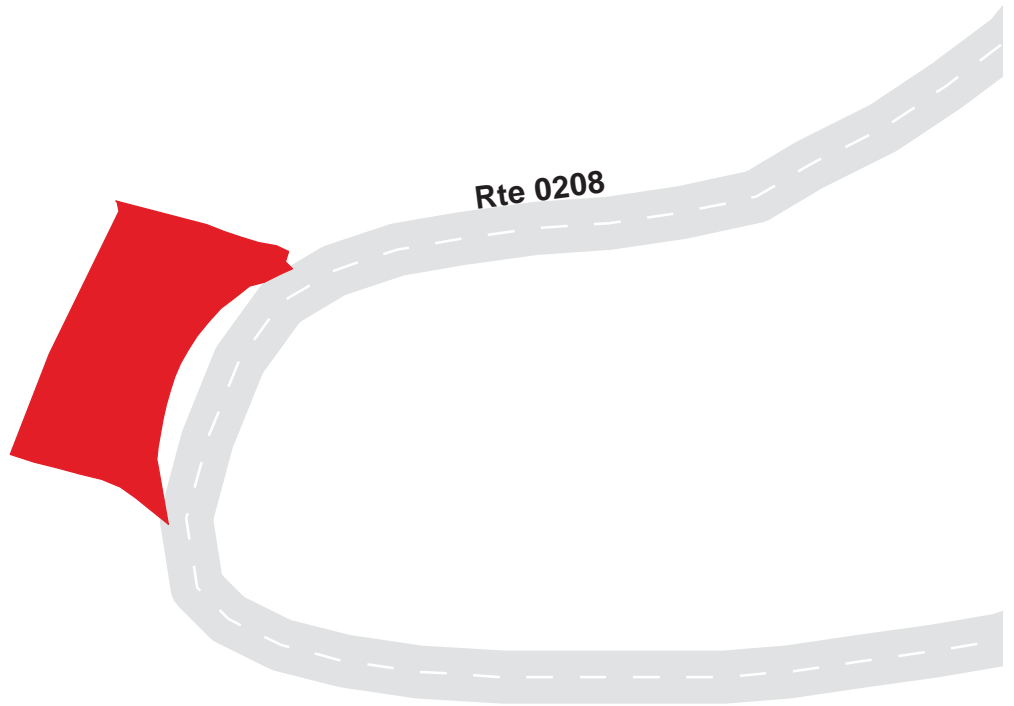
* Lane miles are based on 11' lane widths



Arches National Park
Route 0922
 JUNIPER GROUP CAMPGROUND PARKING
 Adjacent to Route 0208

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922	Public	4/1/2003	2115	0.04	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park
Route 0923
 CAMPGROUND PARKING
 Adjacent to Route 0501

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923	Public	4/1/2003	1991	0.03	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park

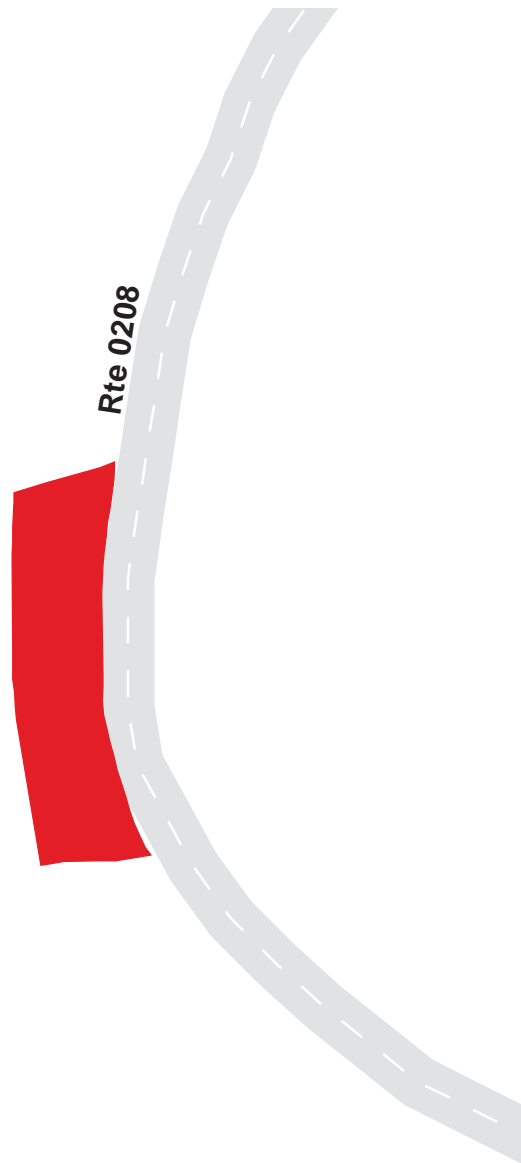
Route 0924

CANYON WREN AMPHITHEATER PARKING

Adjacent to Route 0208

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0924	Public	4/1/2003	2460	0.04	AS	FAIR / 73

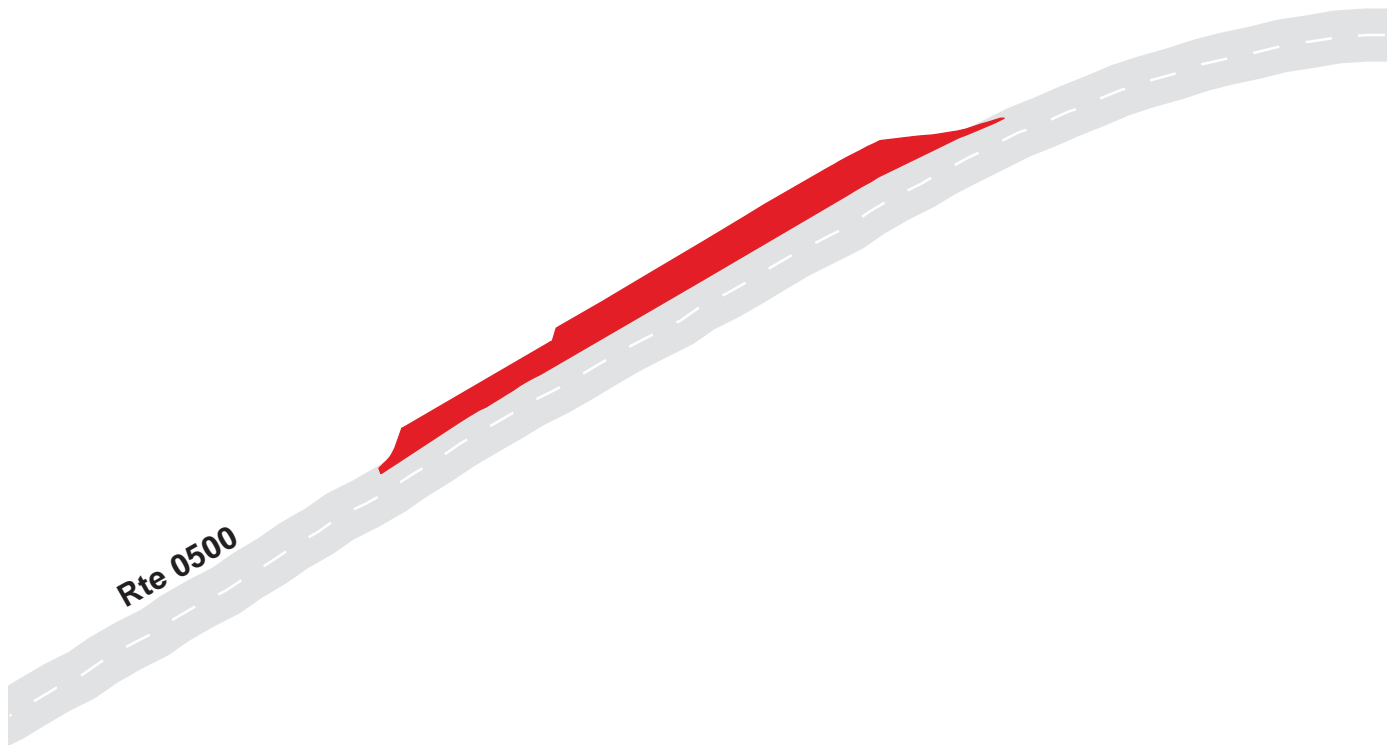
* Lane miles are based on 11' lane widths



Arches National Park
Route 0925A
 DOUBLE ARCH PARKING A
 Adjacent to Route 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925A	Public	4/1/2003	6309	0.11	OC	FAIR / 73

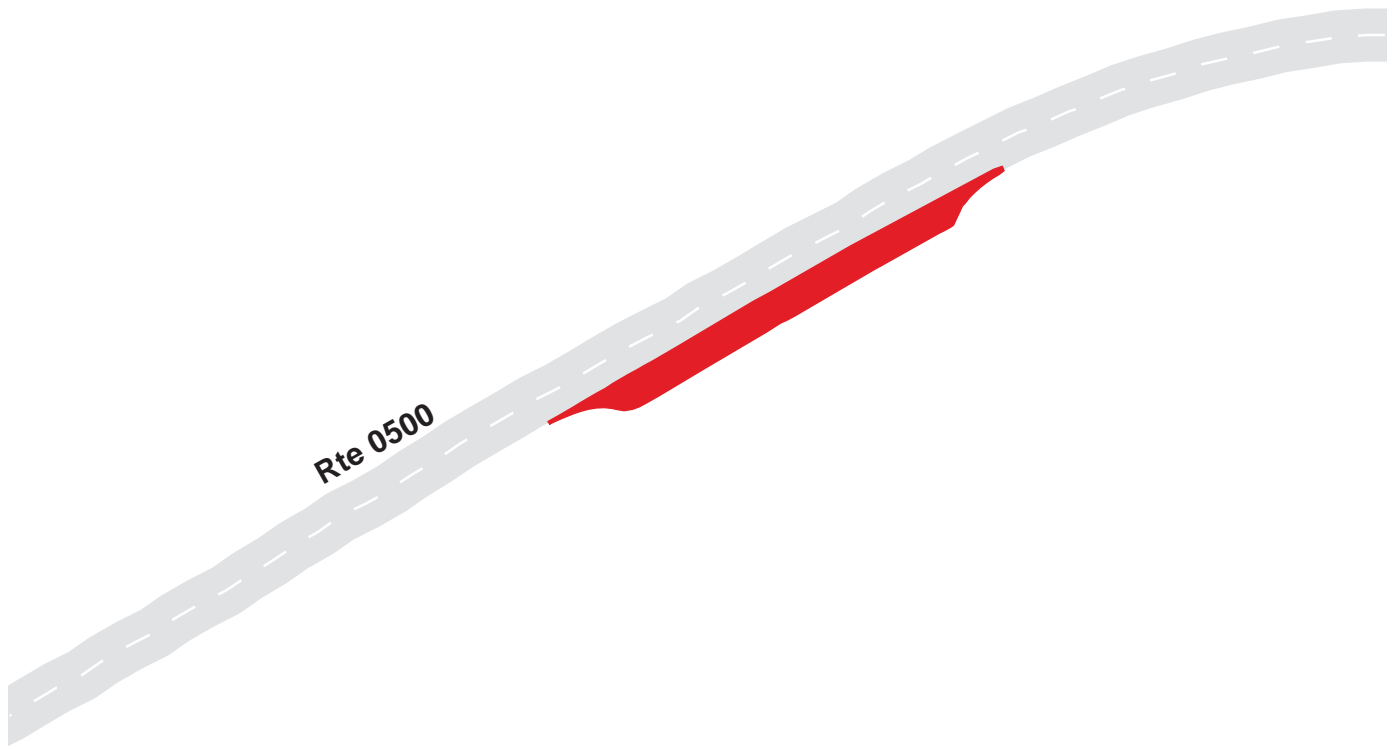
* Lane miles are based on 11' lane widths



Arches National Park
Route 0925B
 DOUBLE ARCH PARKING B
 Adjacent to Route 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925B	Public	4/1/2003	4735	0.08	OC	FAIR / 73

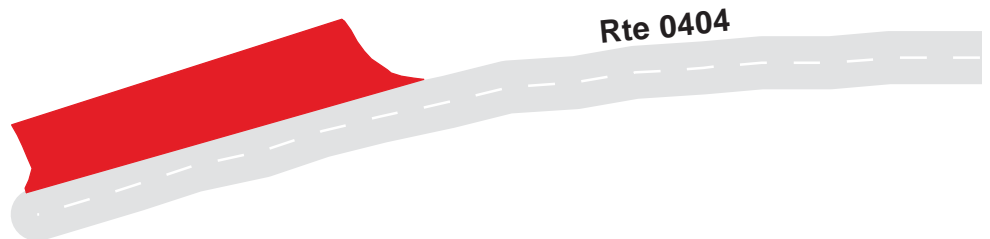
* Lane miles are based on 11' lane widths



Arches National Park
Route 0926
VISITOR CENTER STAFF PARKING
At End of Route 0404

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0926	NonPublic	4/1/2003	1732	0.03	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Arches National Park
Route 0927
 ADMINISTRATIVE PARKING
 Adjacent to Route 0404

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0927	NonPublic	4/1/2003	1354	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



ARCH: PARKWIDE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>PARK TOTAL</i>	<i>UNIT</i>
BRIDGE	1	EACH
CATTLE GUARD	0	EACH
CULVERT	139	EACH
CURB	29,056	LINEAR FEET
DROP INLET	4	EACH
GUARD WALL	90	LINEAR FEET
GUARDRAIL	496	LINEAR FEET
INTERSECTION	124	EACH
LOW WATER CROSSING	2	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	2,202	LINEAR FEET
PULLOUT	33	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	1	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

ARCH: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0010 MAIN PARK ROAD</i>	<i>ROUTE 0011 WINDOWS ROAD</i>	<i>ROUTE 0100 DELICATE ARCH ROAD</i>	<i>ROUTE 0200 LA SAL MOUNTAIN VIEW ROAD</i>	<i>ROUTE 0204 GARDEN OF EDEN OVERLOOK ROAD</i>	<i>ROUTE 0205 PANORAMA OVERLOOK ROAD</i>	<i>UNIT</i>
BRIDGE	1	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	99	12	10	0	0	0	EACH
CURB	17,091	2,867	2,592	153	84	639	LINEAR FEET
DROP INLET	1	1	0	0	0	1	EACH
GUARD WALL	90	0	0	0	0	0	LINEAR FEET
GUARDRAIL	496	0	0	0	0	0	LINEAR FEET
INTERSECTION	24	3	7	2	2	5	EACH
LOW WATER CROSSING	0	0	2	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	2,202	0	0	0	0	0	LINEAR FEET
PULLOUT	17	4	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	1	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

ARCH: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0206 SALT VALLEY OVERLOOK ROAD</i>	<i>ROUTE 0207 FIERY FURNACE ROAD</i>	<i>ROUTE 0208 DEVIL'S GARDEN CAMPGROUND ROAD</i>	<i>ROUTE 0401 MAINTENANCE ROAD</i>	<i>ROUTE 0403 ARCHES RESIDENCE AREA ROAD</i>	<i>ROUTE 0404 ADMINISTRATION ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	3	5	5	0	0	EACH
CURB	111	264	301	116	0	0	LINEAR FEET
DROP INLET	0	0	1	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	3	6	46	5	1	3	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	11	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

ARCH: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0500 WINDOWS LOOP</i>	<i>ROUTE 0501 DEVIL'S GARDEN LOOP</i>	<i>UNIT</i>
BRIDGE	0	0	EACH
CATTLE GUARD	0	0	EACH
CULVERT	2	3	EACH
CURB	3,216	1,621	LINEAR FEET
DROP INLET	0	0	EACH
GUARD WALL	0	0	LINEAR FEET
GUARDRAIL	0	0	LINEAR FEET
INTERSECTION	5	12	EACH
LOW WATER CROSSING	0	0	EACH
OVERHEAD SIGN	0	0	EACH
PARK BOUNDARY	0	0	EACH
PAVED DITCH	0	0	LINEAR FEET
PULLOUT	0	1	EACH
RAILROAD CROSSING	0	0	EACH
RETAINING WALL	0	0	EACH
STATE BOUNDARY	0	0	EACH
TRAFFIC LIGHT	0	0	EACH
TUNNEL	0	0	EACH
TURNOUT	0	0	LINEAR FEET

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT US HWY 191
0.002	0.002	INTERSECTION	LEFT	US HWY 191
0.010	0.023	GUARDRAIL	RIGHT	
0.033	0.033	CULVERT	N/A	
0.113	0.113	INTERSECTION	RIGHT	RTE 401
0.212	0.243	CURB	RIGHT	
0.223	0.235	CURB	LEFT	
0.227	0.227	TRAFFIC LIGHT	LEFT	
0.251	0.251	INTERSECTION	RIGHT	RTE 913
0.255	0.264	CURB	RIGHT	
0.269	0.269	INTERSECTION	RIGHT	RTE 914
0.278	0.278	CULVERT	N/A	
0.429	0.581	CURB	RIGHT	
0.480	0.480	CULVERT	N/A	
0.533	0.533	CULVERT	N/A	
0.558	0.558	CULVERT	N/A	
0.642	0.642	CULVERT	N/A	
0.671	0.671	CULVERT	N/A	
0.727	0.727	CULVERT	N/A	
0.740	0.757	GUARD WALL	RIGHT	
0.764	0.832	PULLOUT	RIGHT	
0.775	0.805	CURB	RIGHT	
0.793	0.793	CULVERT	N/A	
1.020	1.020	CULVERT	N/A	
1.073	1.073	CULVERT	N/A	
1.353	1.353	CULVERT	N/A	
1.443	1.487	CURB	RIGHT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.443	1.487	PULLOUT	RIGHT	
1.683	1.683	CULVERT	N/A	
1.735	1.735	CULVERT	N/A	
1.856	1.856	CULVERT	N/A	
1.878	1.878	CULVERT	N/A	
2.425	2.425	INTERSECTION	LEFT	RTE 912
2.479	2.479	INTERSECTION	LEFT	RTE 912
2.676	2.761	PULLOUT	RIGHT	
2.690	2.753	CURB	RIGHT	
2.718	2.718	CULVERT	N/A	
2.823	2.823	INTERSECTION	RIGHT	RTE 911
3.425	3.445	PULLOUT	RIGHT	
3.426	3.444	CURB	RIGHT	
3.642	3.642	CULVERT	N/A	
3.719	3.719	CULVERT	N/A	
3.753	3.753	CULVERT	N/A	
3.783	3.783	INTERSECTION	RIGHT	RTE 910
3.834	3.834	INTERSECTION	RIGHT	RTE 910
3.851	3.851	CULVERT	N/A	
3.908	3.908	CULVERT	N/A	
4.016	4.016	CULVERT	N/A	
4.123	4.123	CULVERT	N/A	
4.180	4.180	CULVERT	N/A	
4.243	4.243	CULVERT	N/A	
4.262	4.262	CULVERT	N/A	
4.343	4.343	CULVERT	N/A	
4.692	4.734	GUARDRAIL	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.695	4.731	BRIDGE	N/A	
4.695	4.734	GUARDRAIL	RIGHT	
4.784	4.843	PULLOUT	LEFT	
4.941	4.941	CULVERT	N/A	
5.261	5.325	CURB	RIGHT	
5.270	5.270	CULVERT	N/A	
5.842	5.842	CULVERT	N/A	
5.958	5.958	CULVERT	N/A	
6.190	6.218	CURB	RIGHT	
6.205	6.205	INTERSECTION	RIGHT	RTE 909
6.491	6.491	CULVERT	N/A	
6.660	6.660	CULVERT	N/A	
6.846	6.986	PAVED DITCH	LEFT	
7.079	7.079	CULVERT	N/A	
7.141	7.141	CULVERT	N/A	
7.220	7.220	CULVERT	N/A	
7.325	7.325	CULVERT	N/A	
7.327	7.604	PAVED DITCH	LEFT	
7.416	7.506	PULLOUT	RIGHT	
7.418	7.418	CULVERT	N/A	
7.421	7.489	CURB	RIGHT	
7.609	7.609	CULVERT	N/A	
7.683	7.683	CULVERT	N/A	
7.852	7.852	CULVERT	N/A	
8.122	8.139	PULLOUT	RIGHT	
8.124	8.139	CURB	RIGHT	
8.168	8.168	CULVERT	N/A	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
8.242	8.242	CULVERT	N/A	
8.471	8.471	CULVERT	N/A	
8.615	8.615	CULVERT	N/A	
8.685	8.714	PULLOUT	RIGHT	
8.689	8.713	CURB	RIGHT	
8.745	8.745	CULVERT	N/A	
8.761	8.761	CULVERT	N/A	
8.793	8.793	CULVERT	N/A	
8.829	8.829	CULVERT	N/A	
8.886	8.886	CULVERT	N/A	
8.927	8.927	CULVERT	N/A	
8.964	8.964	CULVERT	N/A	
9.095	9.159	CURB	RIGHT	
9.096	9.096	INTERSECTION	LEFT	
9.104	9.104	INTERSECTION	RIGHT	RTE 915
9.110	9.149	CURB	RIGHT	
9.153	9.153	INTERSECTION	RIGHT	
9.153	9.153	INTERSECTION	RIGHT	RTE 915
9.352	9.352	INTERSECTION	RIGHT	RTE 011
9.593	9.593	CULVERT	N/A	
10.079	10.185	CURB	LEFT	
10.396	10.396	INTERSECTION	RIGHT	RTE 205
10.576	10.686	CURB	RIGHT	
10.685	10.685	CULVERT	N/A	
10.769	10.769	CULVERT	N/A	
10.822	10.869	PULLOUT	RIGHT	
10.826	10.865	CURB	RIGHT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
10.865	10.865	CULVERT	N/A	
10.965	10.981	CURB	RIGHT	
10.980	10.980	CULVERT	N/A	
11.029	11.070	CURB	RIGHT	
11.072	11.072	CULVERT	N/A	
11.124	11.124	CULVERT	N/A	
11.180	11.180	CULVERT	N/A	
11.187	11.246	CURB	RIGHT	
11.243	11.243	CULVERT	N/A	
11.268	11.301	CURB	LEFT	
11.268	11.331	CURB	RIGHT	
11.270	11.311	PULLOUT	LEFT	
11.330	11.330	CULVERT	N/A	
11.448	11.448	CULVERT	N/A	
11.579	11.621	CURB	RIGHT	
11.580	11.623	PULLOUT	RIGHT	
11.635	11.712	CURB	LEFT	
11.726	11.726	CULVERT	N/A	
11.737	11.737	INTERSECTION	RIGHT	RTE 100
11.751	11.969	CURB	LEFT	
11.762	11.964	CURB	RIGHT	
11.925	11.925	CULVERT	N/A	
11.973	12.077	CURB	LEFT	
11.987	11.987	CULVERT	N/A	
12.012	12.033	CURB	RIGHT	
12.046	12.046	CULVERT	N/A	
12.152	12.223	CURB	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
12.249	12.267	CURB	RIGHT	
12.431	12.509	CURB	LEFT	
12.673	12.750	CURB	RIGHT	
12.693	12.693	CULVERT	N/A	
12.975	13.026	CURB	LEFT	
13.012	13.012	CULVERT	N/A	
13.051	13.391	CURB	LEFT	
13.059	13.113	CURB	RIGHT	
13.112	13.112	CULVERT	N/A	
13.287	13.475	CURB	RIGHT	
13.426	13.426	CULVERT	N/A	
13.427	13.427	DROP INLET	RIGHT	
13.477	13.516	CURB	RIGHT	
13.502	13.502	CULVERT	N/A	
13.659	13.659	CULVERT	N/A	
13.673	13.817	CURB	RIGHT	
13.847	13.847	CULVERT	N/A	
13.997	13.997	INTERSECTION	RIGHT	RTE 206
14.239	14.239	INTERSECTION	RIGHT	RTE 207
14.296	14.296	CULVERT	N/A	
14.456	14.456	CULVERT	N/A	
14.525	14.525	CULVERT	N/A	
14.593	14.593	CULVERT	N/A	
14.801	14.801	CULVERT	N/A	
14.847	14.895	PULLOUT	RIGHT	
14.853	14.889	CURB	RIGHT	
14.962	14.997	CURB	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.962	15.008	PULLOUT	LEFT	
15.010	15.010	CULVERT	N/A	
15.091	15.091	CULVERT	N/A	
15.094	15.141	PULLOUT	RIGHT	
15.102	15.142	CURB	RIGHT	
15.152	15.152	CULVERT	N/A	
15.342	15.342	CULVERT	N/A	
15.345	15.388	PULLOUT	RIGHT	
15.350	15.384	CURB	RIGHT	
15.384	15.384	CULVERT	N/A	
15.421	15.421	CULVERT	N/A	
15.443	15.443	CULVERT	N/A	
15.452	15.475	CURB	RIGHT	
15.454	15.479	PULLOUT	RIGHT	
15.569	15.569	CULVERT	N/A	
15.739	15.781	CURB	LEFT	
15.742	15.777	PULLOUT	LEFT	
15.881	15.955	CURB	RIGHT	
16.081	16.143	CURB	RIGHT	
16.155	16.155	INTERSECTION	RIGHT	RTE 916
16.375	16.375	CULVERT	N/A	
16.454	16.454	CULVERT	N/A	
16.565	16.565	CULVERT	N/A	
16.583	16.583	CULVERT	N/A	
16.591	16.591	INTERSECTION	LEFT	
16.656	16.656	CULVERT	N/A	
16.767	16.767	INTERSECTION	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAIN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
16.804	16.804	CULVERT	N/A	
16.867	16.906	CURB	RIGHT	
16.874	16.874	INTERSECTION	RIGHT	RTE 917
16.901	16.901	CULVERT	N/A	
17.095	17.095	CULVERT	N/A	
17.256	17.256	CULVERT	N/A	
17.300	17.300	CULVERT	N/A	
17.363	17.363	CULVERT	N/A	
17.386	17.386	INTERSECTION	LEFT	
17.390	17.390			ROUTE ENDS AT LOOP SPLIT (RTE 501)

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : WINDOWS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.009	0.009	INTERSECTION	LEFT	RTE 010
0.156	0.156	CULVERT	N/A	
0.216	0.216	CULVERT	N/A	
0.300	0.323	CURB	LEFT	
0.300	0.324	PULLOUT	LEFT	
0.368	0.368	CULVERT	N/A	
0.462	0.462	CULVERT	N/A	
0.478	0.478	CULVERT	N/A	
0.509	0.509	CULVERT	N/A	
0.533	0.550	PULLOUT	LEFT	
0.536	0.555	CURB	LEFT	
0.644	0.644	CULVERT	N/A	
0.652	0.782	CURB	RIGHT	
0.761	0.776	CURB	LEFT	
0.762	0.777	PULLOUT	LEFT	
0.864	0.864	CULVERT	N/A	
0.925	0.925	CULVERT	N/A	
1.103	1.103	INTERSECTION	LEFT	RTE 204
1.369	1.369	CULVERT	N/A	
1.411	1.473	CURB	RIGHT	
1.440	1.440	CULVERT	N/A	
1.443	1.443	DROP INLET	RIGHT	
1.563	1.563	CULVERT	N/A	
1.720	1.781	CURB	LEFT	
1.845	1.883	CURB	RIGHT	
1.883	1.984	CURB	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : WINDOWS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
2.033	2.052	PULLOUT	RIGHT	
2.034	2.056	CURB	RIGHT	
2.043	2.115	CURB	LEFT	
2.137	2.137	INTERSECTION	LEFT	RTE 500
2.140	2.140			ROUTE ENDS AT RTE 500

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100 : DELICATE ARCH ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.005	0.005	INTERSECTION	LEFT	RTE 010
0.129	0.161	CURB	LEFT	
0.583	0.583	CULVERT	N/A	
0.761	0.761	CULVERT	N/A	
0.855	0.855	CULVERT	N/A	
0.995	0.995	CULVERT	N/A	
1.100	1.100	CULVERT	N/A	
1.185	1.185	INTERSECTION	RIGHT	RTE 904A
1.206	1.206	INTERSECTION	LEFT	RTE 904B
1.222	1.222	INTERSECTION	LEFT	RTE 904B
1.227	1.227	INTERSECTION	RIGHT	RTE 904A
1.231	1.265	CURB	LEFT	
1.236	1.271	CURB	RIGHT	
1.269	1.269	LOW WATER CROSSING	RIGHT	
1.287	1.303	CURB	LEFT	
1.287	1.316	CURB	RIGHT	
1.354	1.386	CURB	RIGHT	
1.384	1.384	LOW WATER CROSSING	RIGHT	
1.401	1.410	CURB	RIGHT	
1.457	1.457	CULVERT	N/A	
1.554	1.554	CULVERT	N/A	
1.642	1.703	CURB	LEFT	
1.667	1.690	CURB	RIGHT	
1.850	1.895	CURB	RIGHT	
1.887	1.887	CULVERT	N/A	
1.953	1.971	CURB	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100 : DELICATE ARCH ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.038	2.038	CULVERT	N/A	
2.087	2.181	CURB	LEFT	
2.124	2.171	CURB	RIGHT	
2.202	2.202	CULVERT	N/A	
2.208	2.213	CURB	LEFT	
2.214	2.225	CURB	RIGHT	
2.215	2.215	INTERSECTION	LEFT	END OF RTE 100/RTE 905
2.220	2.220			ROUTE ENDS AT RTE 905
2.229	2.229	INTERSECTION	LEFT	RTE 905

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : LA SAL MOUNTAIN VIEW ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.002	0.002	INTERSECTION	LEFT	RTE 010
0.124	0.153	CURB	RIGHT	
0.150	0.150			ROUTE ENDS AT RTE 911
0.157	0.157	INTERSECTION	RIGHT	RTE 911

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0204 : GARDEN OF EDEN OVERLOOK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 011
0.001	0.001	INTERSECTION	RIGHT	RTE 011
0.028	0.044	CURB	RIGHT	
0.109	0.109	INTERSECTION	LEFT	RTE 907
0.110	0.110			ROUTE ENDS AT RTE 907

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0205 : PANORAMA OVERLOOK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.005	0.005	INTERSECTION	RIGHT	RTE 010
0.012	0.012	INTERSECTION	LEFT	
0.114	0.114	INTERSECTION	LEFT	RTE 205
0.121	0.189	CURB	RIGHT	
0.147	0.147	INTERSECTION	RIGHT	RTE 906
0.205	0.258	CURB	RIGHT	
0.212	0.212	DROP INLET	RIGHT	
0.307	0.307	INTERSECTION	LEFT	RTE 906
0.310	0.310			ROUTE ENDS AT RTE 906

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0206 : SALT VALLEY OVERLOOK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.005	0.005	INTERSECTION	LEFT	RTE 010
0.148	0.148	INTERSECTION	LEFT	RTE 206
0.209	0.230	CURB	RIGHT	
0.217	0.217	INTERSECTION	RIGHT	RTE 903
0.250	0.250			ROUTE ENDS AT END OF LOOP

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0207 : FIERY FURNACE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.004	0.004	INTERSECTION	LEFT	RTE 010
0.056	0.056	CULVERT	N/A	
0.120	0.120	CULVERT	N/A	
0.194	0.194	INTERSECTION	LEFT	
0.204	0.232	CURB	RIGHT	
0.212	0.212	CULVERT	N/A	
0.213	0.213	INTERSECTION	RIGHT	RTE 902A
0.261	0.283	CURB	RIGHT	
0.268	0.268	INTERSECTION	RIGHT	RTE 902B
0.306	0.306	INTERSECTION	RIGHT	
0.308	0.308	INTERSECTION	LEFT	
0.310	0.310			ROUTE ENDS AT END OF LOOP

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0208 : DEVIL'S GARDEN CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 501
0.006	0.006	INTERSECTION	RIGHT	RTE 501
0.008	0.035	PULLOUT	LEFT	
0.015	0.035	PULLOUT	RIGHT	
0.017	0.017	DROP INLET	LEFT	
0.054	0.054	INTERSECTION	LEFT	
0.082	0.082	CULVERT	N/A	
0.093	0.093	INTERSECTION	RIGHT	
0.111	0.111	INTERSECTION	LEFT	
0.118	0.118	INTERSECTION	RIGHT	
0.135	0.135	INTERSECTION	LEFT	
0.146	0.160	PULLOUT	RIGHT	
0.163	0.163	INTERSECTION	RIGHT	
0.173	0.173	INTERSECTION	RIGHT	
0.173	0.192	PULLOUT	LEFT	
0.195	0.195	INTERSECTION	RIGHT	
0.212	0.212	INTERSECTION	RIGHT	
0.216	0.216	INTERSECTION	LEFT	
0.229	0.229	INTERSECTION	LEFT	
0.236	0.236	INTERSECTION	RIGHT	
0.243	0.243	INTERSECTION	LEFT	
0.258	0.258	INTERSECTION	LEFT	
0.262	0.262	INTERSECTION	RIGHT	
0.269	0.269	INTERSECTION	LEFT	
0.279	0.279	INTERSECTION	RIGHT	
0.288	0.288	INTERSECTION	LEFT	
0.297	0.297	INTERSECTION	RIGHT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0208 : DEVIL'S GARDEN CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.312	0.344	CURB	RIGHT	
0.314	0.327	PULLOUT	LEFT	
0.324	0.324	INTERSECTION	RIGHT	RTE 919
0.336	0.336	INTERSECTION	LEFT	
0.352	0.377	CURB	RIGHT	
0.355	0.361	PULLOUT	LEFT	
0.357	0.357	INTERSECTION	RIGHT	RTE 924
0.426	0.426	CULVERT	N/A	
0.435	0.435	CULVERT	N/A	
0.435	0.435	INTERSECTION	LEFT	
0.444	0.444	INTERSECTION	LEFT	
0.452	0.452	INTERSECTION	RIGHT	
0.458	0.458	INTERSECTION	LEFT	
0.465	0.465	INTERSECTION	RIGHT	
0.480	0.480	INTERSECTION	RIGHT	
0.489	0.489	INTERSECTION	LEFT	
0.500	0.500	INTERSECTION	LEFT	
0.502	0.502	INTERSECTION	RIGHT	
0.512	0.512	INTERSECTION	LEFT	
0.514	0.514	INTERSECTION	RIGHT	
0.520	0.532	PULLOUT	RIGHT	
0.532	0.548	PULLOUT	RIGHT	
0.551	0.551	INTERSECTION	LEFT	
0.555	0.568	PULLOUT	RIGHT	
0.565	0.565	INTERSECTION	LEFT	
0.573	0.573	INTERSECTION	LEFT	
0.584	0.584	INTERSECTION	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0208 : DEVIL'S GARDEN CAMPGROUND ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.594	0.594	INTERSECTION	LEFT	
0.625	0.625	CULVERT	N/A	
0.627	0.627	INTERSECTION	RIGHT	
0.638	0.638	INTERSECTION	RIGHT	
0.656	0.656	INTERSECTION	RIGHT	RTE 921
0.672	0.672	INTERSECTION	RIGHT	
0.674	0.684	PULLOUT	RIGHT	
0.686	0.686	CULVERT	N/A	
0.690	0.711	PULLOUT	RIGHT	
0.727	0.727	INTERSECTION	RIGHT	
0.772	0.772	INTERSECTION	RIGHT	
0.780	0.780			ROUTE ENDS AT END
0.781	0.781	INTERSECTION	LEFT	

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0401 : MAINTENANCE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.003	0.003	INTERSECTION	LEFT	RTE 010
0.020	0.020	CULVERT	N/A	
0.021	0.021	INTERSECTION	LEFT	RTE 404
0.032	0.054	CURB	LEFT	
0.041	0.041	INTERSECTION	LEFT	RTE 920
0.100	0.100	CULVERT	N/A	
0.133	0.133	CULVERT	N/A	
0.224	0.224	CULVERT	N/A	
0.235	0.235	INTERSECTION	LEFT	RTE 403
0.270	0.270	INTERSECTION	RIGHT	RTE 914 AT END OF ROUTE 401
0.277	0.277	CULVERT	N/A	
0.280	0.280			ROUTE ENDS AT RTE 914

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0403 : ARCHES RESIDENCE AREA ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 401
0.008	0.008	INTERSECTION	LEFT	RTE 401
0.100	0.100			ROUTE ENDS AT END

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0404 : ADMINISTRATION ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 401
0.006	0.006	INTERSECTION	LEFT	RTE 401
0.034	0.034	INTERSECTION	RIGHT	RTE 927
0.110	0.110			ROUTE ENDS AT RTE 926
0.122	0.122	INTERSECTION	RIGHT	RTE 926 AT END OF ROUTE 404

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500 : WINDOWS LOOP

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 011
0.008	0.008	CULVERT	N/A	
0.012	0.213	CURB	LEFT	
0.092	0.092	CULVERT	N/A	
0.215	0.284	CURB	RIGHT	
0.237	0.237	INTERSECTION	LEFT	RTE 908B
0.240	0.240	INTERSECTION	RIGHT	RTE 908A
0.255	0.354	CURB	LEFT	
0.301	0.404	CURB	RIGHT	
0.410	0.476	CURB	RIGHT	
0.416	0.440	CURB	LEFT	
0.437	0.437	INTERSECTION	LEFT	RTE 925B
0.439	0.439	INTERSECTION	RIGHT	RTE 925A
0.524	0.571	CURB	LEFT	
0.585	0.585	INTERSECTION	LEFT	RTE 011
0.590	0.590			ROUTE ENDS AT RTE 011

ARCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501 : DEVIL'S GARDEN LOOP

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.007	0.007	INTERSECTION	LEFT	RTE 010
0.042	0.042	INTERSECTION	RIGHT	RTE 900A
0.051	0.069	CURB	RIGHT	
0.076	0.076	INTERSECTION	RIGHT	RTE 900A
0.095	0.120	CURB	RIGHT	
0.110	0.110	INTERSECTION	RIGHT	RTE 900B
0.149	0.172	CURB	RIGHT	
0.161	0.161	INTERSECTION	RIGHT	RTE 923
0.178	0.178	INTERSECTION	RIGHT	RTE 208
0.266	0.266	CULVERT	N/A	
0.316	0.316	INTERSECTION	RIGHT	RTE 901A
0.469	0.509	CURB	RIGHT	
0.491	0.491	INTERSECTION	RIGHT	RTE 901B
0.525	0.655	CURB	LEFT	
0.533	0.533	INTERSECTION	LEFT	RTE 901C
0.545	0.545	CULVERT	N/A	
0.545	0.584	PULLOUT	RIGHT	
0.568	0.568	INTERSECTION	RIGHT	RTE 901D
0.669	0.669	INTERSECTION	RIGHT	
0.676	0.747	CURB	RIGHT	
0.764	0.764	CULVERT	N/A	
0.766	0.766	INTERSECTION	LEFT	RTE 010
0.770	0.770			ROUTE ENDS AT RTE 010

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
1348	Numeric Code for Arches National Park
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
ARCH	Alpha Code for Arches National Park
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total defined "season"
SCR	Surface Condition Rating (see Section 10)
Shoulder Condition Rating	Visual rating (Good, Poor) of the condition of shoulder. (see 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 1 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.

Rating Index Formulas

Alligator Cracking Index = $100 - [40 * (\%low/70 + \%medium/30 + \%high/10)]$

Longitudinal Cracking Index = $100 - [40 * (\%low/350 + \%medium/200 + \%high/75)]$

Transverse Cracking Index = $100 - [(20 * (low/15.1 + medium/7.5)) + (40 * (high/1.9))]$

Patching Index = $100 - [40 * (\%patching / 80)]$

Rutting Index: $100 - [40 * ((low/160) + (med/80) + (high/40))]$

Roughness Condition Index: (RCI) = $32 * [5 * e^{(-0.0041 * average\ IRI)}]$

These 0.02 Distress Rating Index values are then averaged over one mile sections for the mile-by-mile Distress Rating Indexes, Surface Condition Rating (SCR) and Pavement Condition Rating (PCR).

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

Pavement Condition Rating (PCR) = $(SCR * 0.60) + (RCI * 0.40)$

NOTE: Collection of roughness data is dependant 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.

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

Excellent 97

Good 90

Fair 73

Poor 45

Drainage Condition Rating Definitions

- Good:** Minimal overall drainage problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.
- Poor:** Problems exist that jeopardizes the integrity of the road in this section. If funding were available for pavement maintenance, 50% to 100% is estimated to correct drainage deficiencies.

Drainage Condition Rating Criteria

The following are examples of basic criteria to help the rater to identify the different drainage ratings. While in the field, many other flaws will be discovered, but these criteria should give a feel for where the flaws would apply in the ratings.

Good Drainage

Most water clears the road prism adequately with little concern of base saturation.

- X Pavement has minor deficiencies that interrupt water flow.
- X Shoulders are mostly adequate as they relate to surrounding terrain. Shoulder design generally coincides with the drainage design.
- X Curbs have deficiencies, but still function without erosion.
- X Down drains are placed properly, but show signs of some deterioration.
- X Culverts are adequate in numbers and size however, minor deficiencies are evident.
- X Ditches are not paved, but solid and have enough area to maintain and carry required volume of water.

Poor Drainage

This section has areas of inadequate drainage ability that is causing base saturation that could cause a road failure.

- X Pavement grade is irregular and holds dangerous amounts of water (hydroplaning is a concern), or shows massive alligator cracking.
- X Shoulder design induces ponding that encroaches on the pavement (drivers try to avoid ponds).
- X Portions of curbs are missing, allowing water to escape causing erosion.
- X Drop inlets, due to various reasons, are only able to drain 50% or less efficiently.
- X Down drains show signs of water exiting in areas by the down drain causing erosion.
- X Culverts are functionally deficient including size, installation, location, or grade giving water opportunity to saturate the road base.
- X Ditches allow water opportunity to saturate the road base through various reasons such as low places in ditch where design has not allowed for water to drain, little or no room in the road prism for a needed ditch, or water is disappearing within the ditch.

Shoulder Condition Rating Definitions

- Good:** The shoulder is generally in good functional condition. If curbs are present, they are functional.
- Poor:** There is no shoulder because erosion has removed it. If curbs are present, they need to be replaced.

Shoulder Rating Criteria

The following are examples of basic criteria to help the rater to identify the different shoulder ratings. While in the field, many other flaws will be discovered, but these criteria should give a feel for where the flaws would apply in the ratings.

Good Shoulders

- X If shoulder is unpaved drop-offs are less than 1", but grading is required.
- X If shoulder is paved rut depth is less than 1/2", sealed cracks are present, and grading is required.
- X If curbs are present they are functional.

Poor Shoulder

- X If shoulder is unpaved drop-offs are greater than 4" and erosion has removed the shoulder.
- X If shoulder is paved rut depth is greater than 1". Open cracks are greater than 1/4" deep, and erosion has removed the shoulder.
- X If curbs are present they need replacement.
- X If curbs are present they need repairs, and there is erosion behind the curb.

APPENDIX C: DIGITAL IMAGE INFORMATION

All images collected in Cycle 3 are digital images. These images provide the best resolution for identifying sign inventories and pavement evaluations. The images can be viewed with an interactive software program called **Visi-Data**. Each park will have a copy of the Visi-Data program installed in the park for park personnel to access and use.

Only Cycle 3 data can be queried and reviewed using the Visi-Data software program. This program is a multimedia 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 trying to query. Associated digital right-of-way images from either the LAN, USB port, individual DVD, or from the Visi-web application, can be presented along with the GPS locations.

APPENDIX D: METADATA

ARAN ROUTE GPS DATA

Background information of route spatial data.

GPS Records: GPS data for NPS routes is stored in the MS Access database for the park. The coordinates of the road traces are stored in the 'PMS_20' table in the 'GPS_LAT' and 'GPS_LON' fields.

Data Collection Device:

Vehicle Information: Ford Van
Type of GPS Unit: NovAtel MiLLennium, 12 channel, dual frequency L1/L2, DGPS ready receiver w/MiLLennium 502 GPS antenna and OmniSTAR System 3000 LR
Inertial System: Applanix POS LV

Accuracy: Expected ground accuracy is 1 meter *

*The above accuracy assumes good GPS mission planning resulting in maximum GPS satellite observation and ideal environmental conditions. Due to less than ideal satellite and environmental conditions, some routes may lack the expected ground accuracy.

Geographic Datum: WGS 1984

Post Collection GPS Correction: Due to unanticipated GPS collection inaccuracies, some route locations have been digitized using DOQQ's and other data sources.

FHWA – NPS Road Inventory Program Cycle 3 Metadata for the Park Database

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

- Three canned reports are titled “Features in Good Condition”, “Features in Fair Condition,” and “Features in Poor Condition.” These titles could be misleading. In Cycle 3, condition assessments have been conducted on **signs only**. Condition assessments have not been conducted on non-sign features, such as culverts, guardrails, pullouts, etc. Although the database and canned reports might report a default value of “good” for un-assessed features, these condition values are not valid for import into FMSS.
- Database records that show a concrete surface type sometimes include index values that seem to show a perfect roadway (e.g., a Pavement Condition Rating (PCR) of 100). The Road Inventory Program does not actually conduct condition assessments of concrete surfaces. The perfect values are just default values assigned to unassessed sections of pavement and do not represent an assessment of the roadway surface's quality.
- 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_Visidata 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.

- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video. Signs are the only features collected using the opposite-direction video.

Key to Notes in Tables

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

(2): Note that some MP values listed here are estimates recorded during the Route ID process for use by the data collection crew (e.g. "FROM ROUTE 0010 AT MILEPOST 30.3"). They are estimates only and are not expected to match the more accurate milepost values included elsewhere in the database in the BEG_MP, END_MP, and MP fields.

(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. Features along the side of a roadway that are measured using the Surveyor software might not be located very accurately. Surveyor is known to be most accurate when measuring quantities near the center of the video frame, as opposed to in the edges of the video image.

(5): Only signs are evaluated for condition. No other features' conditions are assessed, so "N/A" was originally intended to be the default value for unassessed features. However, some non-sign features do have condition ratings in the database. These are not accurate, because no assessment was ever done on non-sign features.

(6): Condition assessments are not conducted on concrete (CO) surface types. Perfect values for concrete road sections are default values and do not represent a condition assessment of the concrete surfaces.

(7): 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 resolution. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

Master Table Metadata:

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	Untested. 50 characters fit in field
FUNCT_CLAS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input/FHWA Determination	Untested
COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
END_MP	999.999 (miles)	Ending MP collected	ARAN Data Collection	Automatic Output	100% (3)

PMS_Feature Table Metadata:

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
FUNCT_CLAS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Survey Crew Input/Video Processing	Untested (4)
EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Processing	Untested
MUTCD	"N/A"	N/A. Intended to be sign MUTCD code	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
CONDITION	XXX	Sign condition (G-D, F-R, P-R, N/A)	Contractor Post-processing	Video Processing	Untested (5)
COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
OFFSET	"N/A"	N/A. Intended to be offset from pavement edge	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
SIDE	XXX	Side of route; "N/A" if not on one side	Contractor Post-processing	Video Processing	Untested
STR_NUMBER	XXXXXXXXXXXX	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
GPS_LAT	"N/A"	N/A. Intended to be latitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_LON	"N/A"	N/A. Intended to be longitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_ELEV	"N/A"	N/A. Intended to be elevation	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_MODE	"N/A"	N/A. Intended to be GPS mode	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
VIDEO	<Park-C03VID-#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
VISL_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

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

PMS 20, PMS Mile & PMS Visidata Tables Metadata:

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
BEG_MP	999.999 (miles)	MP at start of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
END_MP	999.999 (miles)	MP at end of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
INT_LENGTH	999.9 (ft)	Length of road interval as aggregated for data table	Contractor Post-processing	Database Processing	100%
RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
LANE_NO	X	Data collection lane	Contractor Post-processing	Database Processing	Untested
WX_LANE_WIDTH	99.999 (ft)	WiseCrax (crack detection software) analysis width	Contractor Post-processing	Automatic Output	Untested
LANE_WIDTH	99.999 (ft)	Width of lane	Contractor Post-processing	Video Processing	Untested
PAVE_WIDTH	99.999 (ft)	Full pavement width	Contractor Post-processing	Video Processing	Untested
SHLD_WIDTH_L	99.999 (ft)	Left shoulder width	Contractor Post-processing	Video Processing	Untested
SHLD_WIDTH_R	99.999 (ft)	Right shoulder width	Contractor Post-processing	Video Processing	Untested
SHLD_COND_L	XXXX	Left shoulder condition	ARAN Data Collection	Survey Crew Input	Untested
SHLD_COND_R	XXXX	Right shoulder condition	ARAN Data Collection	Survey Crew Input	Untested
DRAIN_COND_L	XXXX	Left drainage condition	ARAN Data Collection	Survey Crew Input	Untested
DRAIN_COND_R	XXXX	Right drainage condition	ARAN Data Collection	Survey Crew Input	Untested
SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
RCI	999	Roughness Condition Index; -1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (6)
RUT_AVG	99.99 (inches)	Average rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_MAX	99.99 (inches)	Maximum rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (6)
RUT_LOW	999 (%)	Percent of low severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_MED	999 (%)	Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_HI	999 (%)	Percent of high severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
XFALL	999.9 (% slope)	Cross fall at start of road interval	ARAN Data Collection	Automatic Output	Precise but inaccurate. Not reported in Cycle 4
GRADE	999.9 (% slope)	Grade at start of road interval	ARAN Data Collection	Automatic Output	Precise but inaccurate. Not reported in Cycle 4
AC_INDEX	999	Alligator cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
AC_LOW	999.9999 (%)	Percent of WiseCrax measured lane area with low-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
AC_MED	999.9999 (%)	Percent of WiseCrax measured lane area with medium-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
AC_HI	999.9999 (%)	Percent of WiseCrax measured lane area with high-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
LC_INDEX	999	Longitudinal cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
LC_LOW	999.99 (%)	Low-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
LC_MED	999.99 (%)	Medium-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
LC_HI	999.99 (%)	High-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
TC_INDEX	999	Transverse cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
TC_LOW	999.99 (cracks)	Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
TC_MED	999.99 (cracks)	Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
TC_HI	999.99 (cracks)	Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
PATCH_INDEX	999	Patching index	Contractor Post-processing	Database Processing	100% for calculation (6)

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Manual Pavement Video Processing	Untested (6)
GPS_LAT	999.9999999	Latitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_LON	-999.9999999	Longitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_ELEV	999999.9	Elevation	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_MODE	XXX	GPS mode during collection	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
VIDEO	<Par/>C03VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
LANEDEV_FLG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
VISL_TO	999999 (millimiles)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

Cycle 3 Shapefile Metadata

Metadata is provided for all shapefiles used for the creation of RIP report documents. The metadata for each shapefile associated with the park can be found in Section 10 of the PDF report provided on your park CD.

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: WGS 1984

arch_seg

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: arch_seg

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -109.622017

East_Bounding_Coordinate: -109.503197

North_Bounding_Coordinate: 38.782948

South_Bounding_Coordinate: 38.615444

Keywords:

Theme:

Theme_Keyword_Thesaurus: ARCH

Theme_Keyword: ARCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 132

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: arch_seg

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE_

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: TNODE_

Attribute:

Attribute_Label: LPOLY_

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RPOLY_

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LENGTH

Attribute_Definition:

Numeric PCR definition. Average PCR value based on programatic averaging of adjacent segments.

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: ARCH_SEG_

Attribute_Definition: Verbal PCR definition based on value in PCRAV field

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

Enumerated_Domain_Value_Definition: PCR value <= 60
Enumerated_Domain:
Enumerated_Domain_Value: FAIR
Enumerated_Domain_Value_Definition: PCR value 61-84
Enumerated_Domain:
Enumerated_Domain_Value: GOOD
Enumerated_Domain_Value_Definition: PCR value 85-94
Enumerated_Domain:
Enumerated_Domain_Value: EXCELLENT
Enumerated_Domain_Value_Definition: PCR value 95-100

Attribute:

Attribute_Label: ARCH_SEG_I
Attribute_Definition: Indicates whether feature has been edited for graphic purposes.
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: No edit made to feature.

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute:

Attribute_Label: BMP

Attribute:

Attribute_Label: EMP

Attribute:

Attribute_Label: PCR

Attribute:

Attribute_Label: PCR_RATE

Attribute:

Attribute_Label: RT_LENGTH

Attribute:

Attribute_Label: PCRMI

Attribute:

Attribute_Label: PCR_RATEMI

Attribute:

Attribute_Label: PCR_RATEAV

Attribute:

Attribute_Label: PCRAV

Attribute:

Attribute_Label: TSR_EDIT

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20051006
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile

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arch_pkg_03

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: arch_pkg_03

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Parking Areas

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 12/7/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -109.620487

East_Bounding_Coordinate: -109.501145

North_Bounding_Coordinate: 38.783000

South_Bounding_Coordinate: 38.615777

Keywords:

Theme:

Theme_Keyword_Thesaurus: ARCH

Theme_Keyword: ARCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:* Good*Completeness_Report:* Complete for parking areas*Lineage:**Source_Information:**Type_of_Source_Media:* GPS

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 36

*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:* 0.000000*Longitude_Resolution:* 0.000000*Geographic_Coordinate_Units:* Decimal degrees*Geodetic_Model:**Horizontal_Datum_Name:* North American Datum of 1927*Ellipsoid_Name:* Clarke 1866*Semi-major_Axis:* 6378206.400000*Denominator_of_Flattening_Ratio:* 294.978698

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* arch_pkg_03*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* FEATURE*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Surface type of route*Attribute_Domain_Values:**Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Condition rating for route*Attribute:**Attribute_Label:* PHOTOS*Attribute_Definition:* Photo filename associated with feature*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT

Attribute_Definition: Feature area in square feet

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.018

Metadata_Reference_Information:

Metadata_Date: 20051006

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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arch_pkg_03_map

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: arch_pkg_03_map

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Copy of Parking Areas

Purpose: Road Inventory Program

Supplemental_Information:

This shapefile is a copy of the source parking shapefile. The features are edited as needed for graphic purposes.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 12/7/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -109.620487

East_Bounding_Coordinate: -109.501227

North_Bounding_Coordinate: 38.783099

South_Bounding_Coordinate: 38.615761

Keywords:

Theme:

Theme_Keyword_Thesaurus: ARCH

Theme_Keyword: ARCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for parking areas

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 36

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: arch_pkg_03_map

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NAME

Attribute_Definition: Route name

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FEATURE

Attribute:

Attribute_Label: SURF_TYPE

Attribute_Definition: Surface type of route

Attribute_Domain_Values:

Attribute:

Attribute_Label: CONDITION

Attribute_Definition: Condition rating for route

Attribute:

Attribute_Label: PHOTOS

Attribute_Definition: Photo filename associated with feature

Attribute:

Attribute_Label: COMMENT

Attribute_Definition: Field comment

Attribute:

Attribute_Label: GPS_DATE

Attribute_Definition: Date of GPS collection

*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT*Attribute_Definition:* Feature area in square feet

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.018

*Metadata_Reference_Information:**Metadata_Date:* 20051006*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

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arch_mi_pt

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: arch_mi_pt

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Mile Points

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. All attributes found in the PMS_20 table are found on the miles points.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Not Available

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -109.617371

East_Bounding_Coordinate: -109.506805

North_Bounding_Coordinate: 38.780468

South_Bounding_Coordinate: 38.615685

Keywords:

Theme:

Theme_Keyword_Thesaurus: ARCH

Theme_Keyword: ARCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD Sterling

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for mile points

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 35

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: arch_mi_pt

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: RIP_CYCLE

Attribute_Definition: 3, for data collection cycle 3

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: STATE

Attribute_Definition: State where route is located

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_NO

Attribute_Definition: Park numeric code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FUNCT_CLAS

Attribute_Definition: Route functional class

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: DIRECTION

Attribute_Definition: Survey lane: PRI (primary) or OPP (opposite)

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: BEG_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: END_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: INT_LENGTH

Attribute_Definition: Length of road interval as aggregated from data table

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RTE_LENGTH

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: NO_LANES

Attribute_Definition: Number of lanes in route

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LANE_NO

Attribute_Definition: Data collection lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: WX_LANE_WI

Attribute_Definition: WiseCrax (crack detection software) analysis width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: LANE_WIDTH

Attribute_Definition: Width of lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: PAVE_WIDTH

Attribute_Definition: Full pavement width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WIDTH

Attribute_Definition: Left shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WID_1

Attribute_Definition: Right shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_COND_

Attribute_Definition: Left shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SHLD_COND1

Attribute_Definition: Right shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: DRAIN_COND
Attribute_Definition: Left drainage condition
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: DRAIN_CO_1
Attribute_Definition: Right drainage condition
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: PCR
Attribute_Definition: Pavement Condition Rating
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RCI
Attribute_Definition: Roughness Condition Index; -1 if invalid IRI
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SCR
Attribute_Definition: Surface Condition Rating
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_AVG
Attribute_Definition: Average IRI
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_SD
Attribute_Definition: IRI Standard Deviation
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_L
Attribute_Definition: Left wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: IRI_R
Attribute_Definition: Right wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: IRI_FLAG
Attribute_Definition: -1 if invalid IRI data
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RUT_INDEX
Attribute_Definition: Rut index
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RUT_AVG
Attribute_Definition: Average rut depth of both wheelpaths
Attribute_Definition_Source: Contractor Post-processing

*Attribute:**Attribute_Label:* RUT_MAX*Attribute_Definition:* Maximum rut depth of both wheelpaths*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_SD*Attribute_Definition:* Rut depth standard deviation*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_LOW*Attribute_Definition:*

Percent of low severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_MED*Attribute_Definition:*

Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_HI*Attribute_Definition:*

Percent of high severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* XFALL*Attribute_Definition:* Cross fall at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* GRADE*Attribute_Definition:* Grade at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* AC_INDEX*Attribute_Definition:* Alligator cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* AC_LOW*Attribute_Definition:*

Percent of WiseCrax measured lane area with low-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_MED*Attribute_Definition:*

Percent of WiseCrax measured lane area with medium-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_HI*Attribute_Definition:*

Percent of WiseCrax measured lane area with high-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing

*Attribute:**Attribute_Label:* LC_INDEX*Attribute_Definition:* Longitudinal cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* LC_LOW*Attribute_Definition:*

Low-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_MED*Attribute_Definition:*

Medium-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_HI*Attribute_Definition:*

High-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_INDEX*Attribute_Definition:* Transverse cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* TC_LOW*Attribute_Definition:*

Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_MED*Attribute_Definition:*

Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_HI*Attribute_Definition:*

Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* PATCH_INDE*Attribute_Definition:* Patching index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* PATCHING*Attribute_Definition:* Percent of WiseCrax measured lane area affected by patching

Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: GPS_LAT
Attribute_Definition: Latitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_LON
Attribute_Definition: Longitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_ELEV
Attribute_Definition: Elevation
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_MODE
Attribute_Definition: GPS mode during collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: VIDEO
Attribute_Definition: Removable USB video hard drive number
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: IMAGE
Attribute_Definition: Filename of .jpg image showing road interval
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: SPEED
Attribute_Definition: Average ARAN speed during data collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: BRIDGE_FL
Attribute_Definition: Flag indicating presence of bridge in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: CONSTR_FL
Attribute_Definition: Flag indicating construction in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LANEDEV_FL
Attribute_Definition: Flag indicating lane deviation in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: DATE
Attribute_Definition: Data collection date
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: NODISTRESS
Attribute_Definition: Flag indicating absence of pavement distress
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: FILENAME

Attribute_Definition: Filename of raw data files
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SECTION
Attribute_Definition: route section ID
Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection

Attribute:

Attribute_Label: FKEY
Attribute_Definition: Unique record ID
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_FROM
Attribute_Definition: Raw MP of first video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_TO
Attribute_Definition: Raw MP of last video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IDKEY
Attribute_Definition: Unique record ID used by VisiData
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: MP_REF
Attribute_Definition: Range of mileage to play in VisiData
Attribute_Definition_Source: Contractor Post-processing

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.030

Metadata_Reference_Information:

Metadata_Date: 20051006

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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arch_mi

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: arch_mi

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating provided in the PMS_mile table.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -109.622017

East_Bounding_Coordinate: -109.503197

North_Bounding_Coordinate: 38.782948

South_Bounding_Coordinate: 38.615444

Keywords:

Theme:

Theme_Keyword_Thesaurus: ARCH

Theme_Keyword: ARCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 27

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: arch_mi

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE_

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: TNODE_

Attribute:

Attribute_Label: LPOLY_

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RPOLY_

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Numeric PCR definition

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: ARCH_MI_

Attribute_Definition: Verbal PCR definition

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

Enumerated_Domain_Value_Definition: PCR value <= 60

Enumerated_Domain:

Enumerated_Domain_Value: FAIR

Enumerated_Domain_Value_Definition: PCR value 61-84

Enumerated_Domain:

Enumerated_Domain_Value: GOOD

Enumerated_Domain_Value_Definition: PCR value 85-94

Enumerated_Domain:

Enumerated_Domain_Value: EXCELLENT

Enumerated_Domain_Value_Definition: PCR value 95-100

Attribute:

Attribute_Label: ARCH_MI_ID

Attribute_Definition: Indicates whether feature has been edited for graphic purposes.

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes

Enumerated_Domain:

Enumerated_Domain_Value: 0

Enumerated_Domain_Value_Definition: No edit made to feature.

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute:

Attribute_Label: BMP

Attribute:

Attribute_Label: EMP

Attribute:

Attribute_Label: PCR

Attribute:

Attribute_Label: PCR_RATE

Attribute:

Attribute_Label: RT_LENGTH

Attribute:

Attribute_Label: PCRMI

Attribute:

Attribute_Label: PCR_RATEMI

Attribute:

Attribute_Label: PCR_RATEAV

Attribute:

Attribute_Label: PCRAV

Attribute:

Attribute_Label: TSR_EDIT

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.016

Metadata_Reference_Information:

Metadata_Date: 20051006

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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