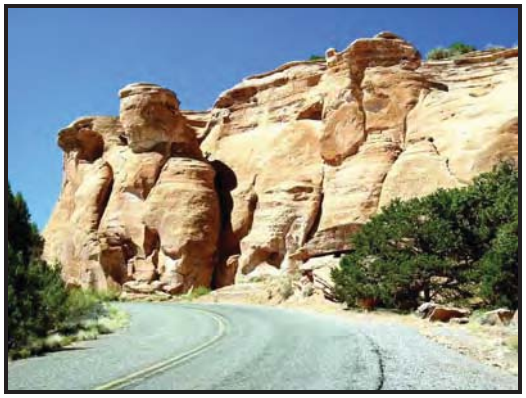


The Road Inventory
Of
Colorado National Monument
COLM - 1378

national park service

Road Inventory Program

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

Colorado National Monument
in
Colorado

TABLE OF CONTENTS

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

Colorado Na onal onu en u ar e

O erall Park leage u ary

P R TOT U R IT	TOT	D T
Paved ARAN Driven Route Miles	25.43	5/16/2003
Unpaved Estimated Route Miles	1.40	5/16/2003
Paved ARAN and Unpaved Route Miles	26.83	
Paved ARAN Driven Lane Miles	49.84	5/16/2003
Paved MRR Lane Miles	0.14	5/16/2003
Parking Lot Lane Miles	4.13	5/16/2003
Total Paved Lane Miles	54.11	

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)

Colorado National Monument 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	0.60	$66,000
Fair	11.36	$6,361,600
Poor	13.37	$20,589,800
Totals	**25.43**	**$27,020,400**

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).

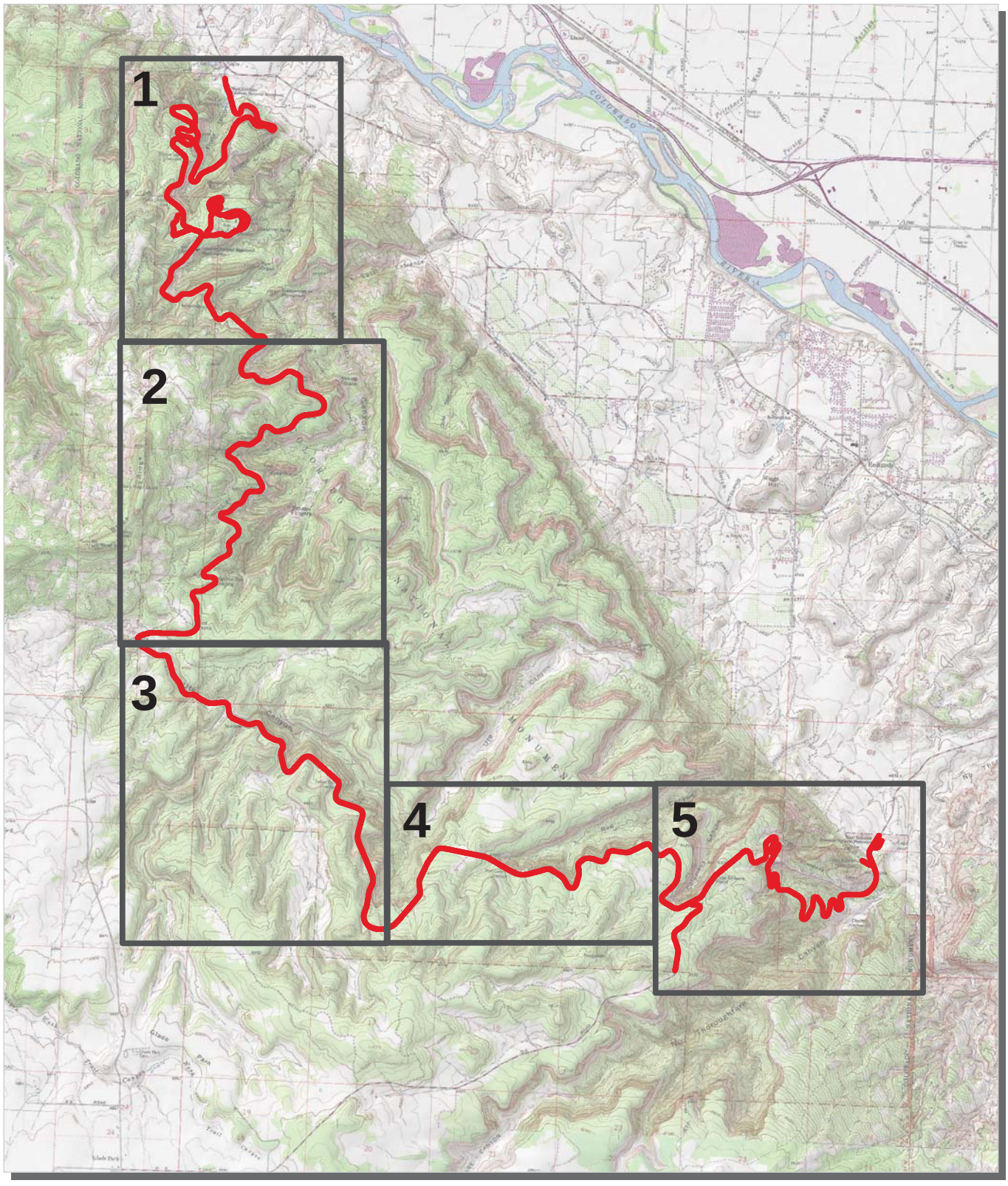
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Colorado Na onal onu en u ar e

Pa ed Rou e le and Percen age y unc onal Cla and PCR or R N Dr en Pa ed Road

C	Pa e en Cond on Ra ng								TOT
	Poor		a r		ood		cellen		
	l		l		l		l		l
1	11.28	44.36%	11.15	43.85%	0.60	2.36%	0.10	0.39%	23.13
2									
3	1.70	6.69%	0.16	0.63%					1.86
4	0.39	1.53%	0.05	0.20%					0.44
5									
6									
7									
8									
To al	**3 3**		**3**			**3**		**3**	**3**

Colorado National Monument
Route Location
Key Map

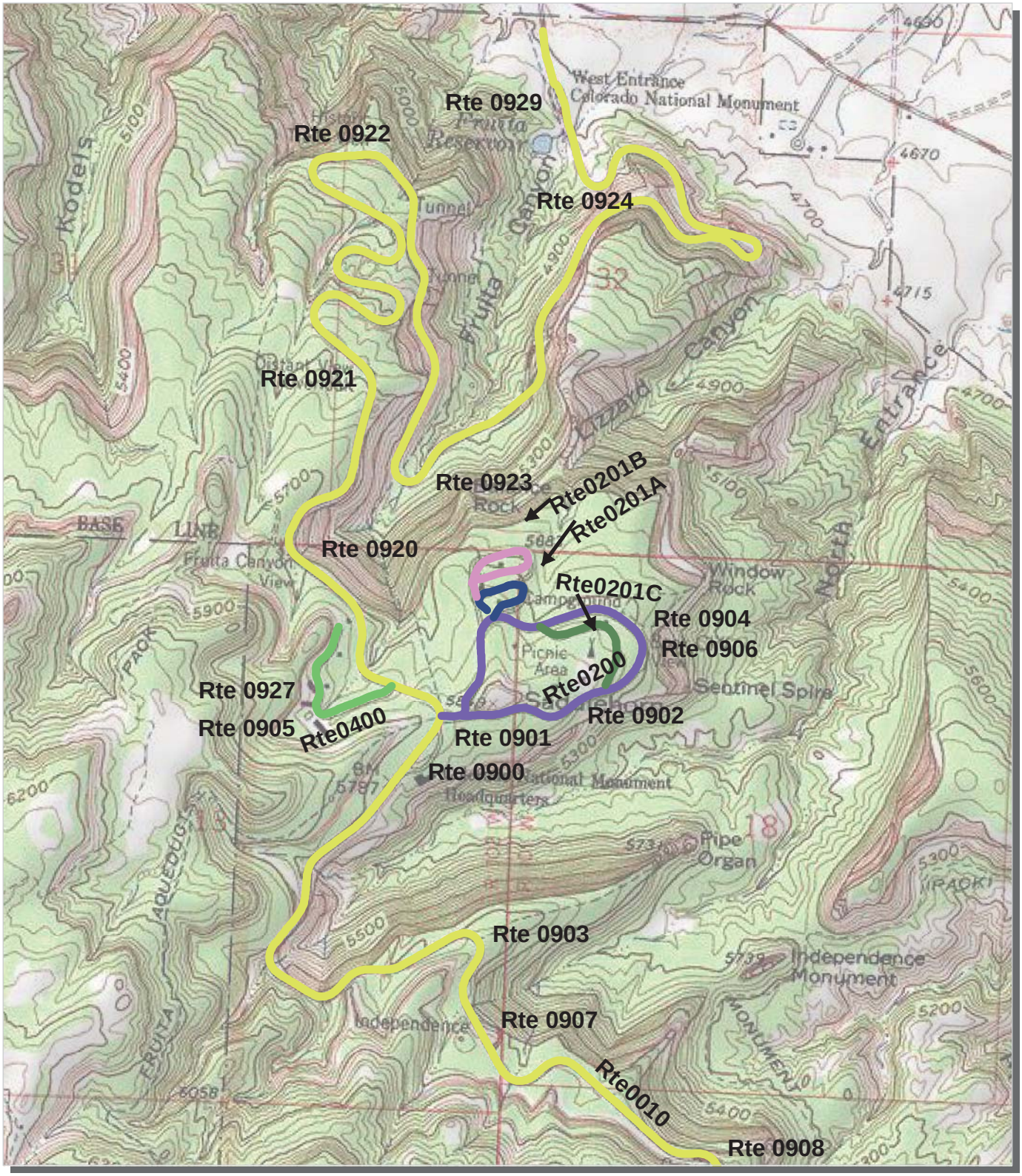


Park Owned Routes

1 0.5 0 1 Miles

N

Colorado National Monument
Route Location Map
Area Map 1

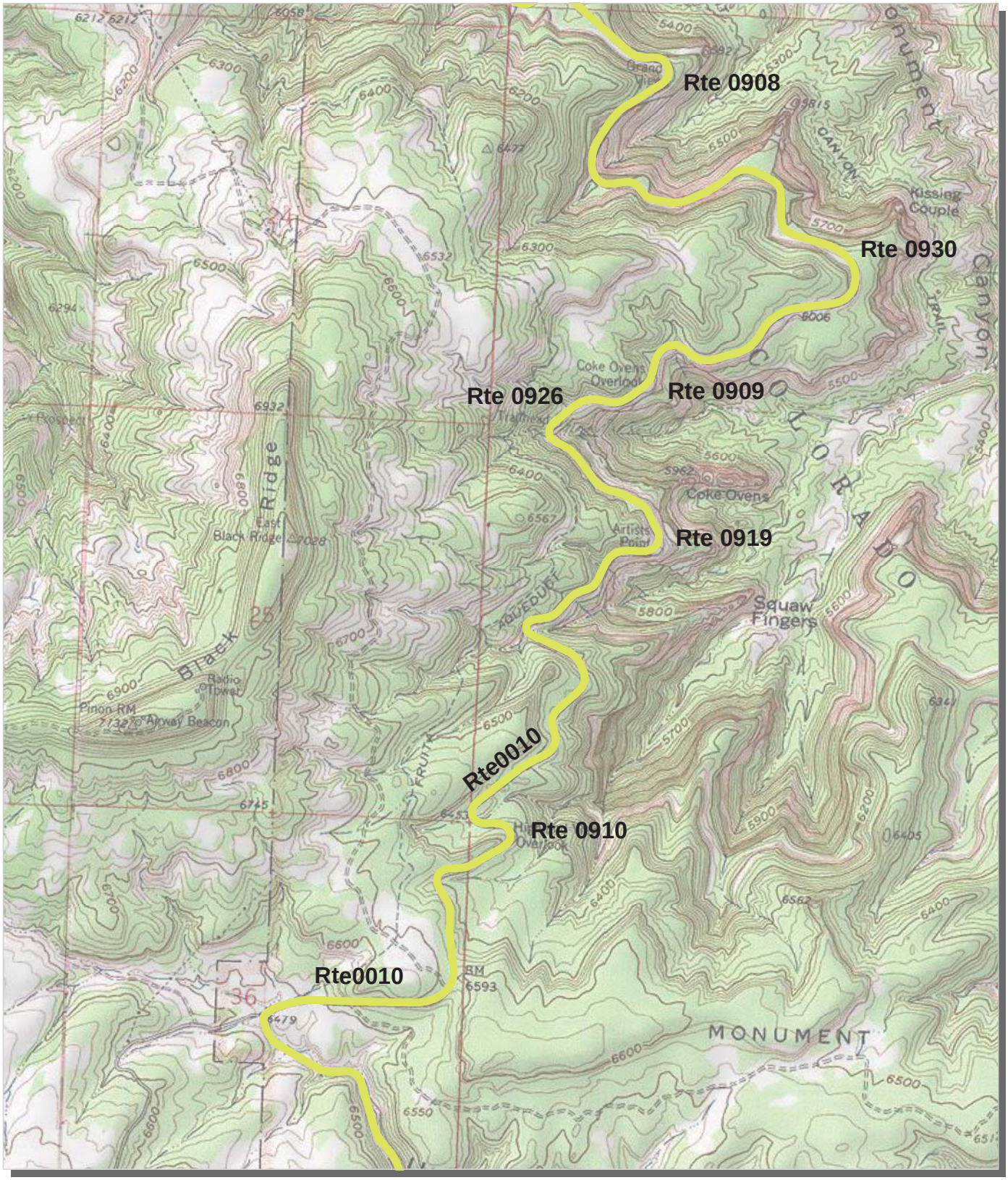


Unique colors used to differentiate routes

0.25 0.125 0 0.25
Miles

N

Colorado National Monument
Route Location Map
Area Map 2

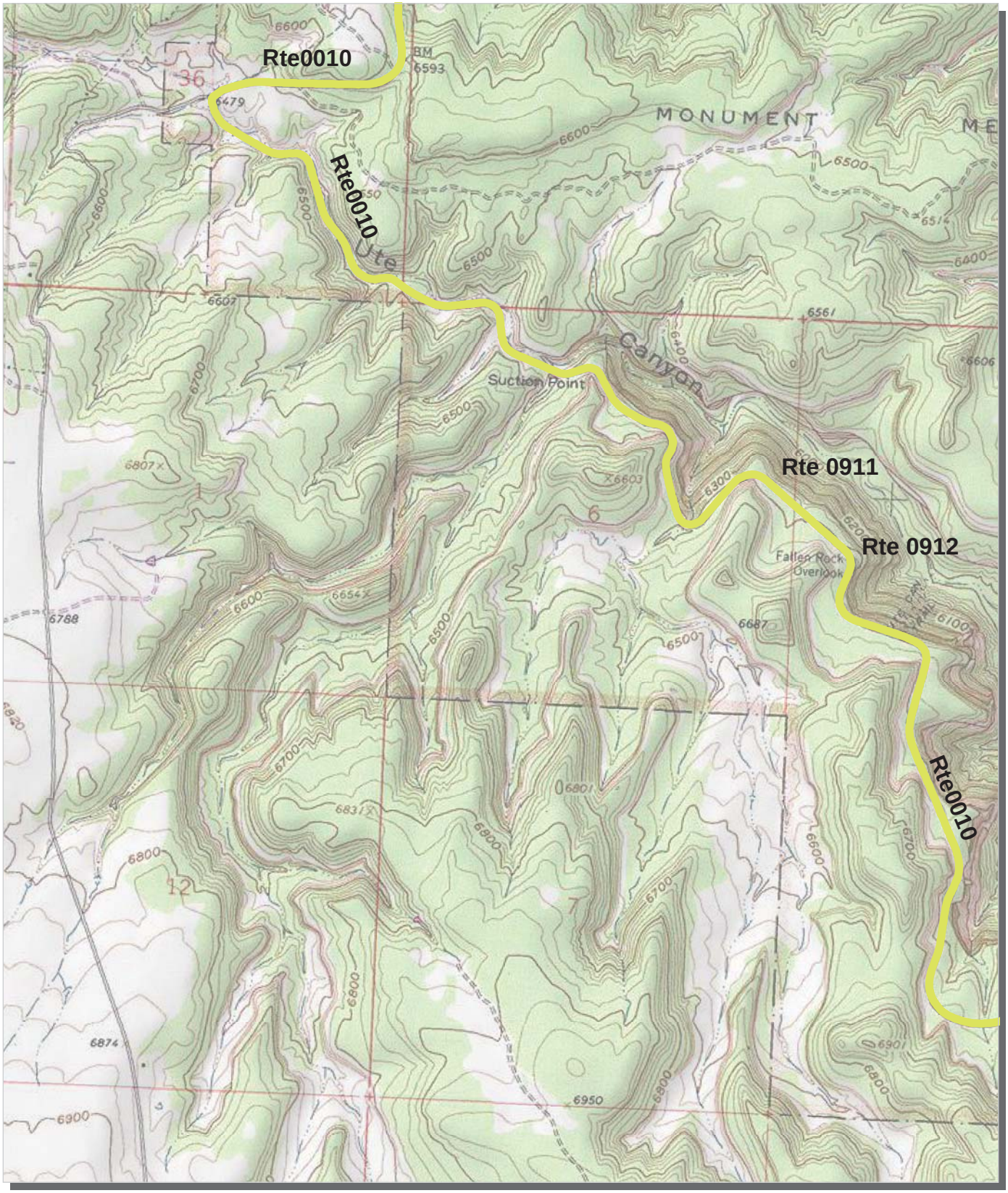


Unique colors used to differentiate routes

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Location Map
Area Map 3

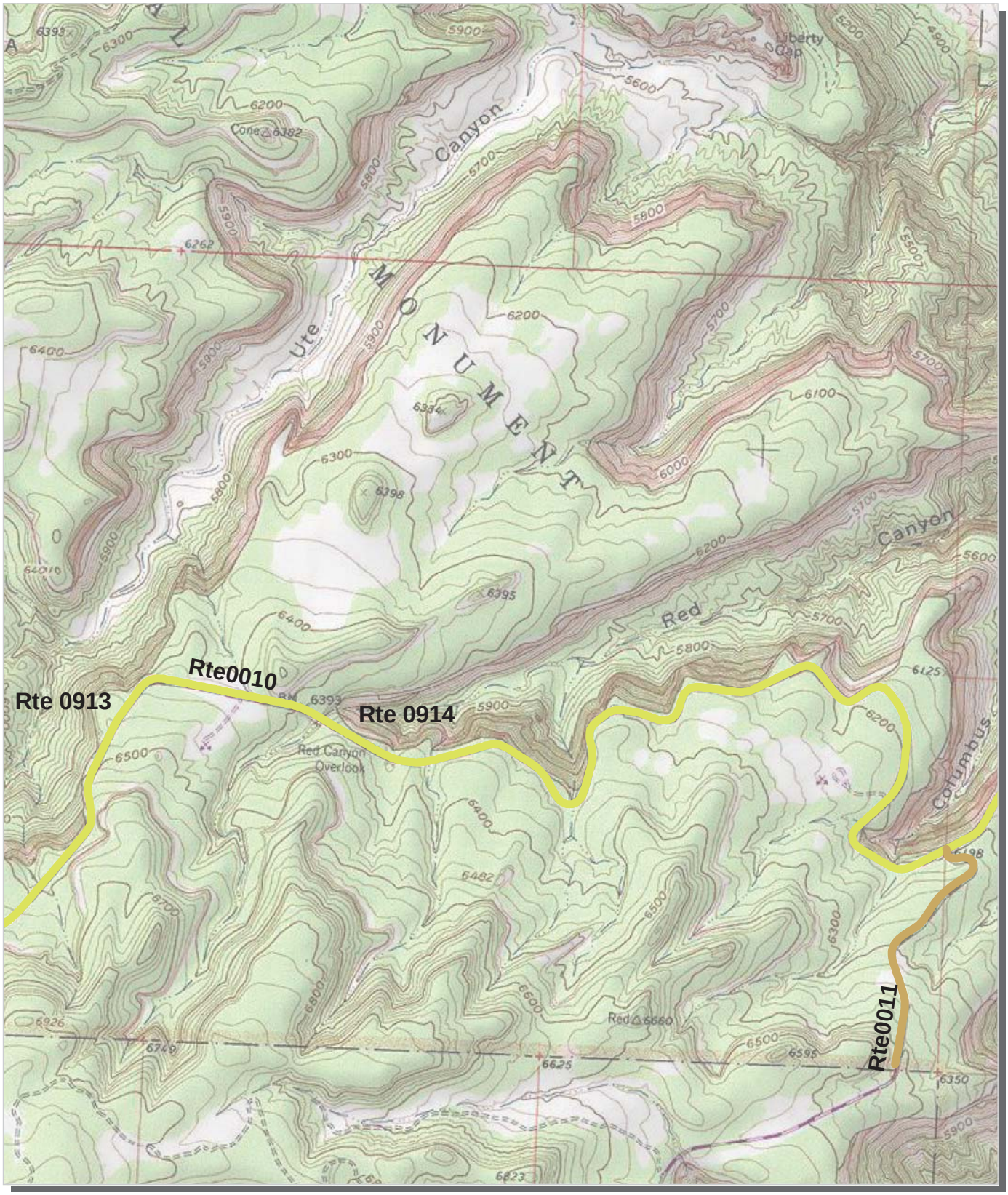


Unique colors used to differentiate routes

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Location Map
Area Map 4

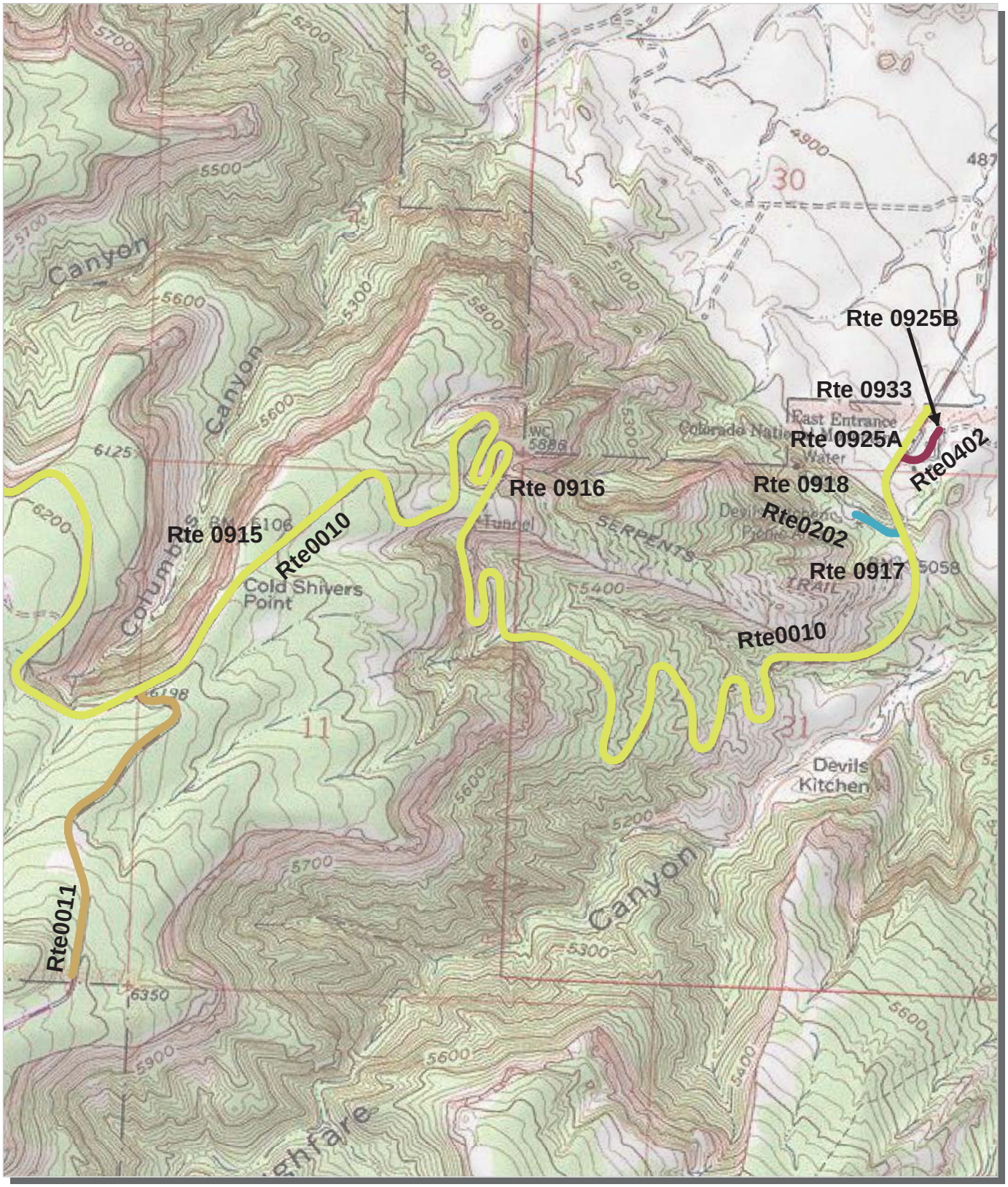


Unique colors used to differentiate routes

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Location Map
Area Map 5

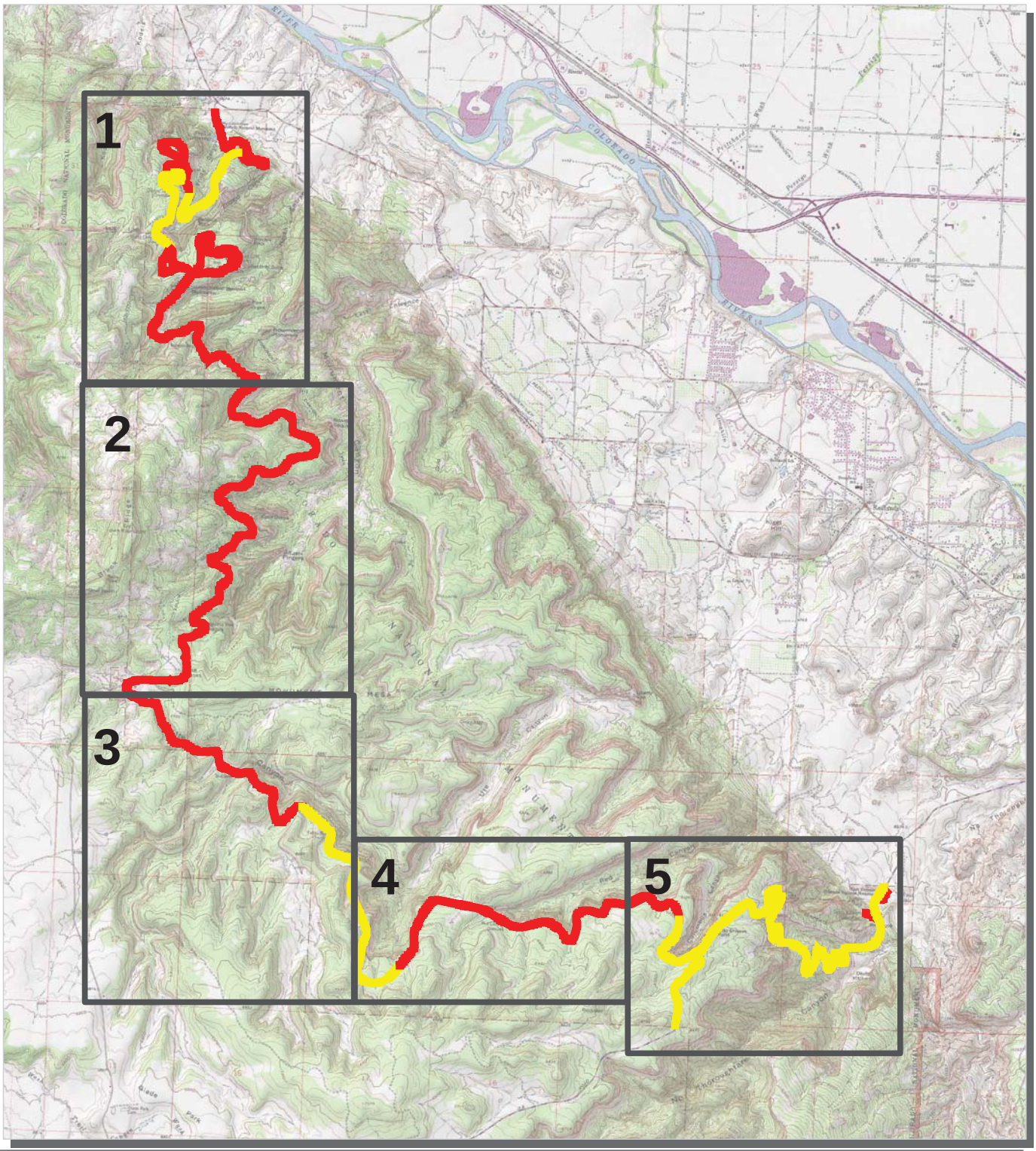


Unique colors used to differentiate routes

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Condition Key Map
PCR - Mile by Mile



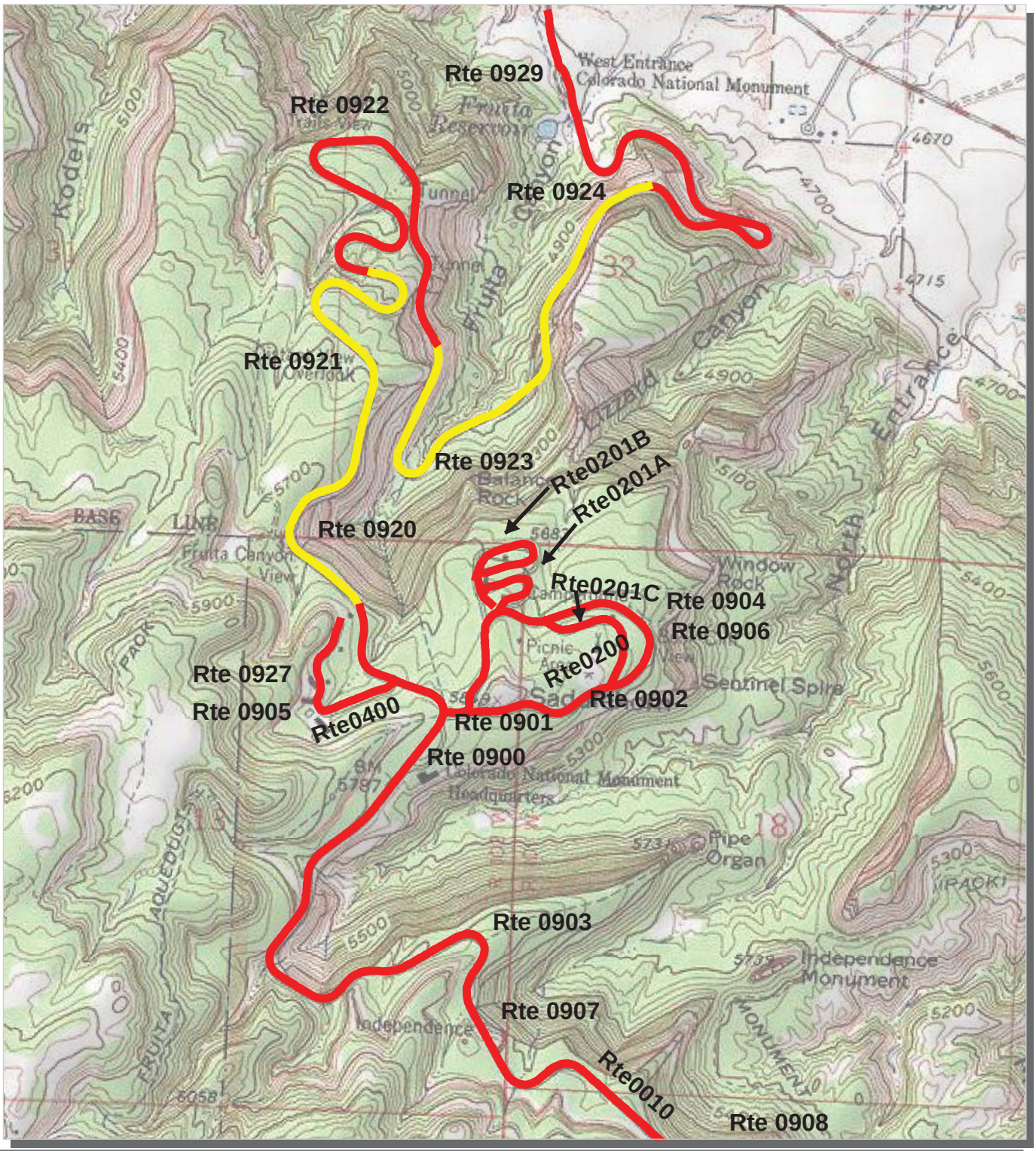
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

2 1 0 2 Miles

N

Colorado National Monument
Route Condition Area Map 1
PCR - Mile by Mile



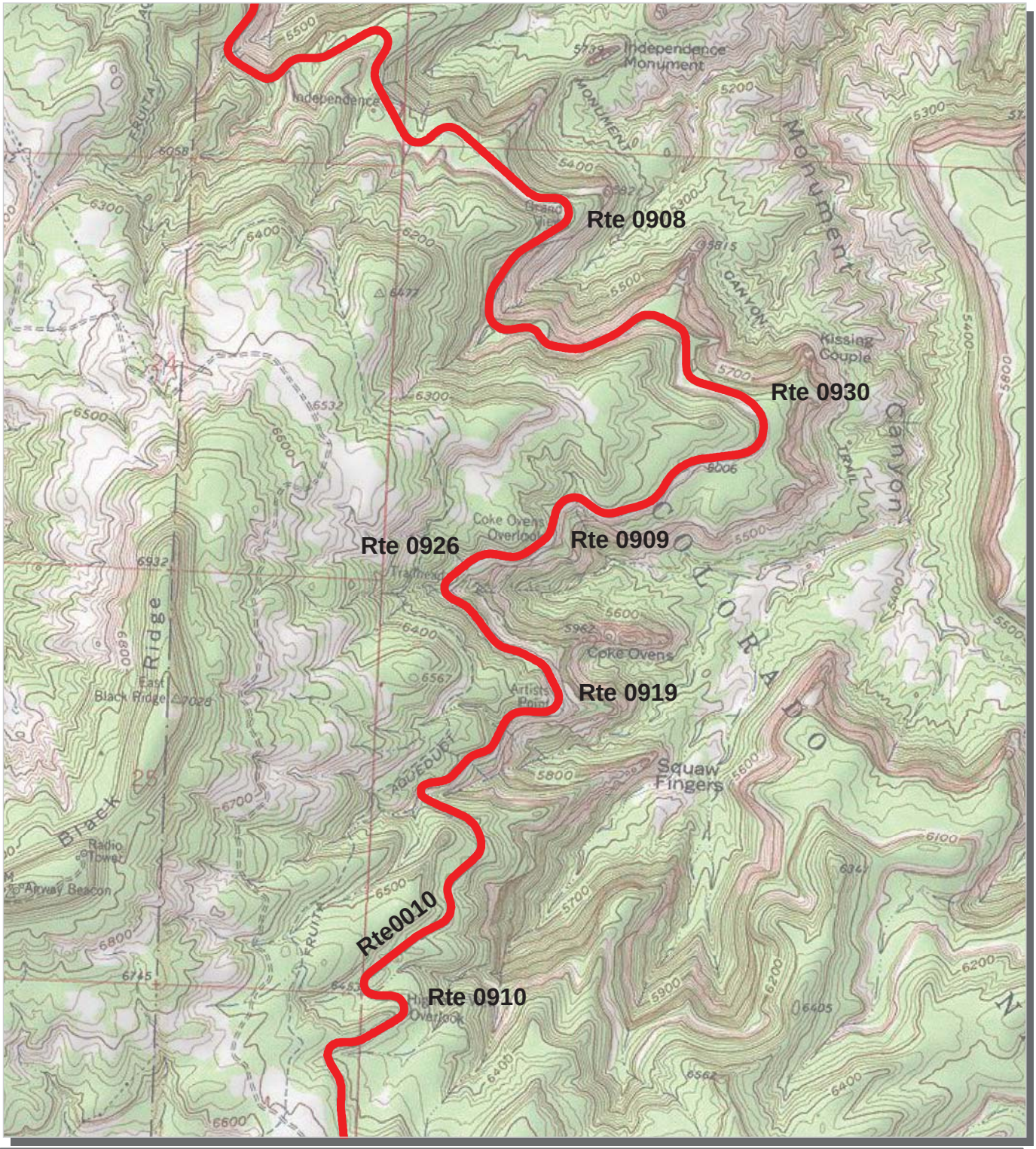
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Condition Area Map 2
PCR - Mile by Mile



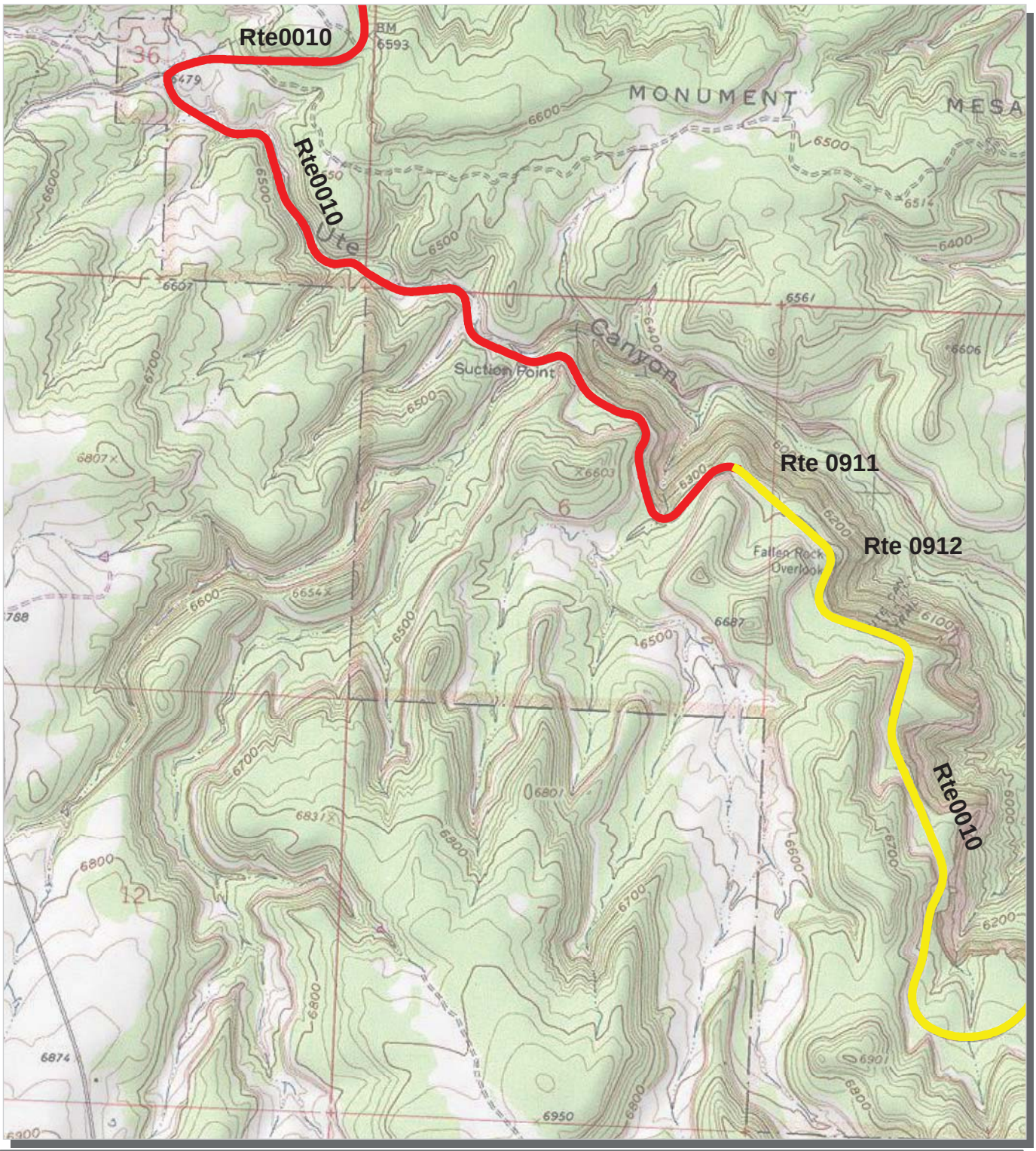
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Condition Area Map 3
PCR - Mile by Mile



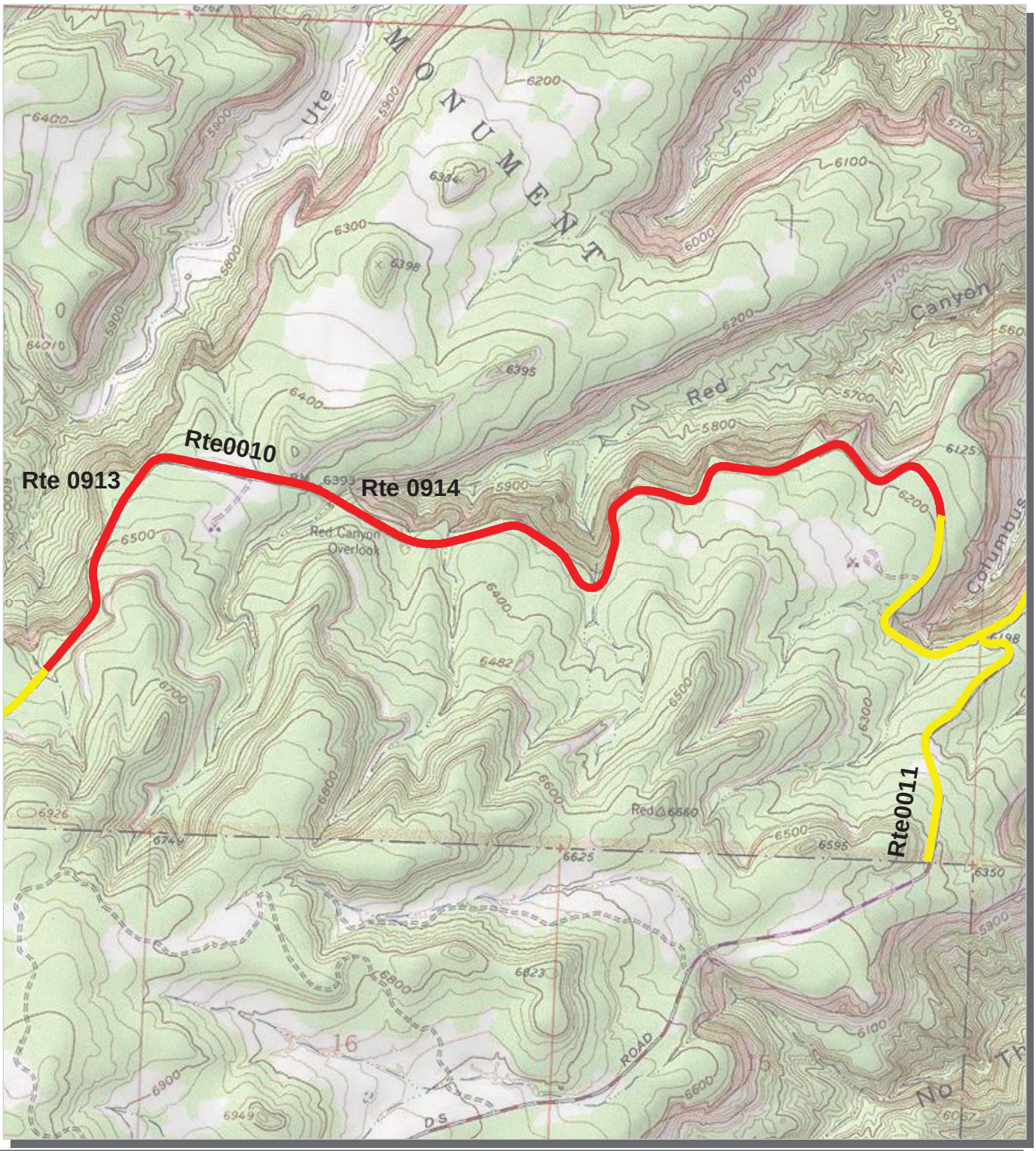
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Condition Area Map 4
PCR - Mile by Mile



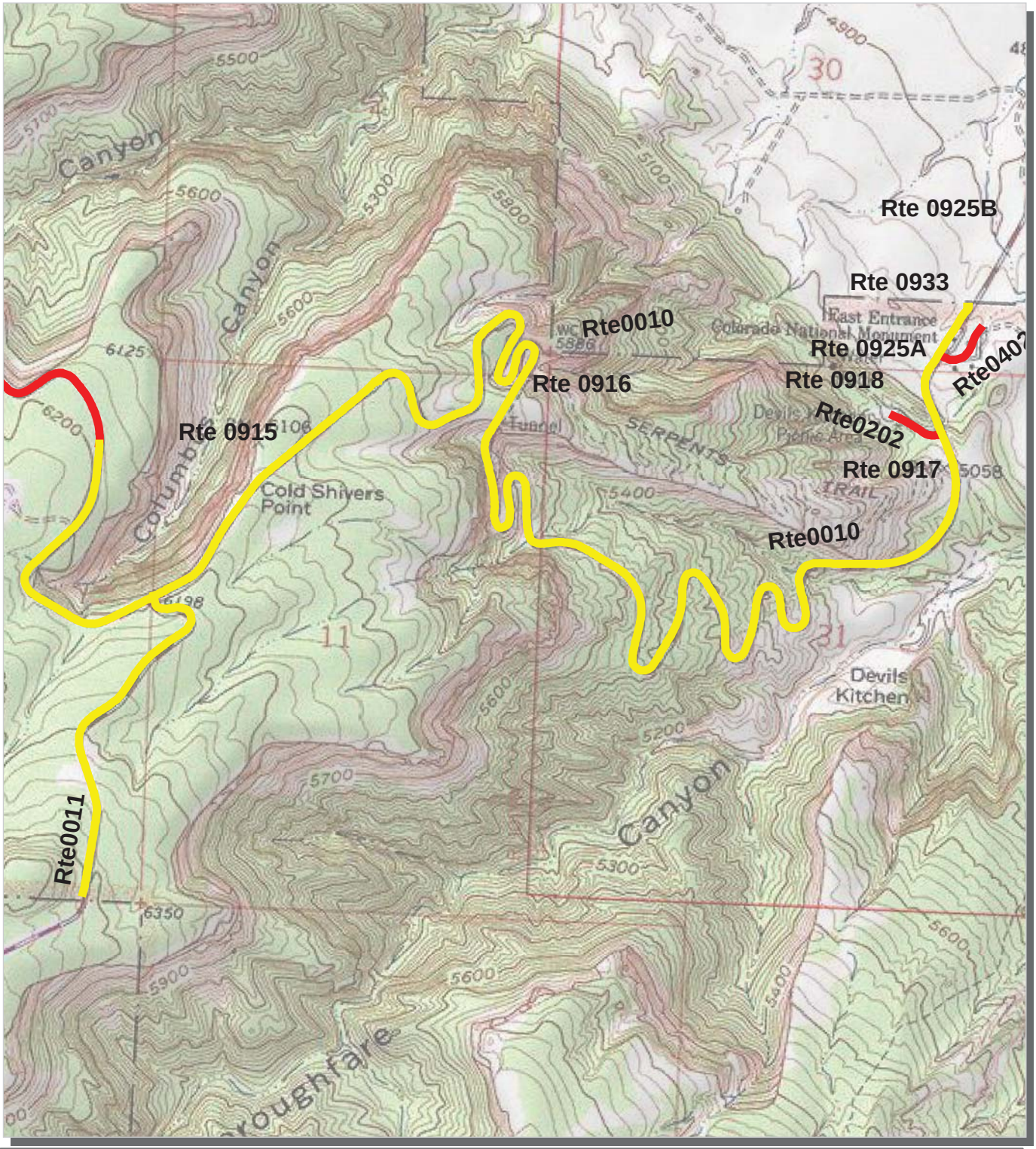
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

0.5 0.25 0 0.5 Miles

N

Colorado National Monument
Route Condition Area Map 5
PCR - Mile by Mile



PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

0.5 0.25 0 0.5 Miles

N

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 =

COLM

Colorado National Monument

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0010	80034	RIMROCK DRIVE	From Northwest Entrance	To East Entrance	22.41	0.00	22.41	1	2	0	AS
0011		GLADE PARK ROAD	From Route 0010 at MP 18.4	To Park Boundary	0.72	0.00	0.72	1	2	0	AS
0100		WEST GLADE PARK ROAD	From Route 0010 at MP 10.92	To West Boundary	0.00	0.13	0.13	2	2	0	GR
0200		SADDLEHORN AMPHITHEATER/ CAMPGROUND ROAD	From Route 0010 at MP 4.3	To end of loop	0.95	0.00	0.95	3	2,1	0	AS
0201A		SADDLEHORN CAMPGROUND LOOP A	From Route 0200	To End of Loop	0.22	0.00	0.22	3	1	0	OC
0201B		SADDLEHORN CAMPGROUND LOOP B	From Route 0201A	To End of loop	0.31	0.00	0.31	3	2,1	0	AS
0201C		SADDLEHORN CAMPGROUND LOOP C	From Route 0200	To Route 0200	0.26	0.00	0.26	3	1	0	OC
0202		DEVILS KITCHEN PICNIC AREA RD	From Route 0010 at MP 19.44	To Route 0918	0.12	0.00	0.12	3	2	0	OC
0400		MAINTENANCE/ RESIDENCE AREA ROAD	From Route 0010 at MP 4.2	To Dead End	0.33	0.00	0.33	4	2	0	AS
0401		WATER TANK ROAD	From Route 0010 at MP 4.38		0.00	0.27	0.27	4	2	0	GR
0402		EAST SHOP ROAD	From Route 0010 at MP 19.28	To End of Pavement at Gate	0.11	0.00	0.11	4	2	0	AS
0403		STONE HOUSE SERVICE RD	From Route 0200	To Behind Visitor Center	0.08	0.00	0.08	4	1	8,268	OC
0700	80045	R3-Unpaved Admin Use Road	From	To	0.00	1.00	1.00	ZZ		0	GR
0900		VISITOR CENTER PARKING	Adjacent To Route 0010 at MP 4.4		0.00	0.00	0.00	9		26,488	OC
0901		VISITOR CENTER ANNEX PARKING	Adjacent To Route 0200		0.00	0.00	0.00	9		2,151	OC
0902		AMPITHEATER PARKING	Adjacent To Route 0200		0.00	0.00	0.00	9		43,463	OC
0903		OTTO'S TRAILHEAD PARKING	Adjacent To Route 0010 at MP 5.3		0.00	0.00	0.00	9		3,838	OC
0904		WINDOW ROCK NATURE TRAIL PARKING	Adjacent To Route 0200		0.00	0.00	0.00	9		3,820	OC
0905		PARK MAINTENANCE LOT PARKING	Adjacent To Route 0400		0.00	0.00	0.00	9		30,740	OC
0906		BOOK CLIFF VIEW PARKING	Adjacent To Route 0200		0.00	0.00	0.00	9		4,401	OC
0907		INDEPENDENCE MONUMENT VIEW PARKING	Adjacent To Route 0010 at MP 5.5		0.00	0.00	0.00	9		11,442	OC
0908		GRAND VIEW PARKING	Adjacent To Route 0010 at MP 6.04		0.00	0.00	0.00	9		5,770	OC
0909		COKE OVENS OVERLOOK PARKING	Adjacent To Route 0010 at MP 7.94		0.00	0.00	0.00	9		4,907	OC
0910		HIGHLAND VIEW PARKING	Adjacent To Route 0010 at MP 9.9		0.00	0.00	0.00	9		6,271	OC
0911		UPPER UTE CANYON PARKING	Adjacent To Route 0010 at MP 13		0.00	0.00	0.00	9		3,560	OC
0912		FALLEN ROCK OVERLOOK PARKING	Adjacent To Route 0010 at MP 13.3		0.00	0.00	0.00	9		3,993	OC

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 =	

COLM

Colorado National Monument

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
0913		UTE CANYON OVERLOOK PARKING	Adjacent To Route 0010 at MP 15.5		0.00	0.00	0.00	9		3,989	OC
0914		RED CANYON OVERLOOK PARKING	Adjacent To Route 0010 at MP 16.1		0.00	0.00	0.00	9		5,549	OC
0915		COLD SHIVERS PARKING	Adjacent To Route 0010 at MP 18.9		0.00	0.00	0.00	9		5,546	OC
0916		SERPENT TRAIL PARKING	Adjacent To Route 0010 at MP 19.8		0.00	0.00	0.00	9		2,482	OC
0917		DEVILS KITCHEN TRAILHEAD PARKING	Adjacent To Route 0010 at MP 19.45		0.00	0.00	0.00	9		8,638	OC
0918		DEVILS GARDEN PICNIC AREA PARKING	End of Route 0202		0.00	0.00	0.00	9		15,143	OC
0919		ARTISTS POINT PARKING	Adjacent To Route 0010 at MP 8.7		0.00	0.00	0.00	9		7,233	OC
0920		FRUITA VIEW PARKING	Adjacent To Route 0010 at MP 3.9		0.00	0.00	0.00	9		3,140	OC
0921		DISTANT VIEW PARKING	Adjacent To Route 0010 at MP 3.45		0.00	0.00	0.00	9		3,858	OC
0922		HISTORIC TRAILS VIEW PARKING	Adjacent To Route 0010 at MP 2.5		0.00	0.00	0.00	9		1,996	OC
0923		BALANCED ROCK PARKING	Adjacent To Route 0010 at MP 1.7		0.00	0.00	0.00	9		2,392	OC
0924		REDLANDS VIEW PARKING	Adjacent To Route 0010 at MP 1.0		0.00	0.00	0.00	9		3,140	OC
0925A		EAST ENTRANCE RESIDENCE/ MAINTENANCE PARKING A	Adjacent To Route 0402 on Left		0.00	0.00	0.00	9		2,593	OC
0925B		EAST ENTRANCE RESIDENCE/ MAINTENANCE PARKING B	Adjacent To Route 0402 on Right		0.00	0.00	0.00	9		3,766	OC
0926		COKE OVENS TRAILHEAD PARKING	Adjacent To Route 0010 at MP 8.1		0.00	0.00	0.00	9		3,532	OC
0927		RESIDENCE PARKING AREA	Adjacent To Route 0400		0.00	0.00	0.00	9		5,500	OC
0928		EAST ENTRANCE KIOSK PARKING	Adjacent To Route 0010 at MP 19.26		0.00	0.00	0.00	9		3,279	OC
0929		WEST ENTRANCE KIOSK PARKING	Adjacent To Route 0010 at MP 0.2		0.00	0.00	0.00	9		2,753	OC
0930		MONUMENT CANYON VIEW	Adjacent To Route 0010 at MP 7.2		0.00	0.00	0.00	9		3,041	OC
0931		UTE CANYON TRAILHEAD PARKING	Adjacent To Route 0010 at MP 13.7		0.00	0.00	0.00	9		0	GR
0932		LIBERTY CAP TRAILHEAD PARKING	From Route 0010 at MP 10.8	To End	0.00	0.00	0.00	9		0	GR
0933		EAST ENTRANCE SIGN PARKING	Adjacent To End of Route 0010		0.00	0.00	0.00	9		1,535	OC
				Totals:	25.51	1.40	**26.91**			248,219	

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 Invetoried 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.

****

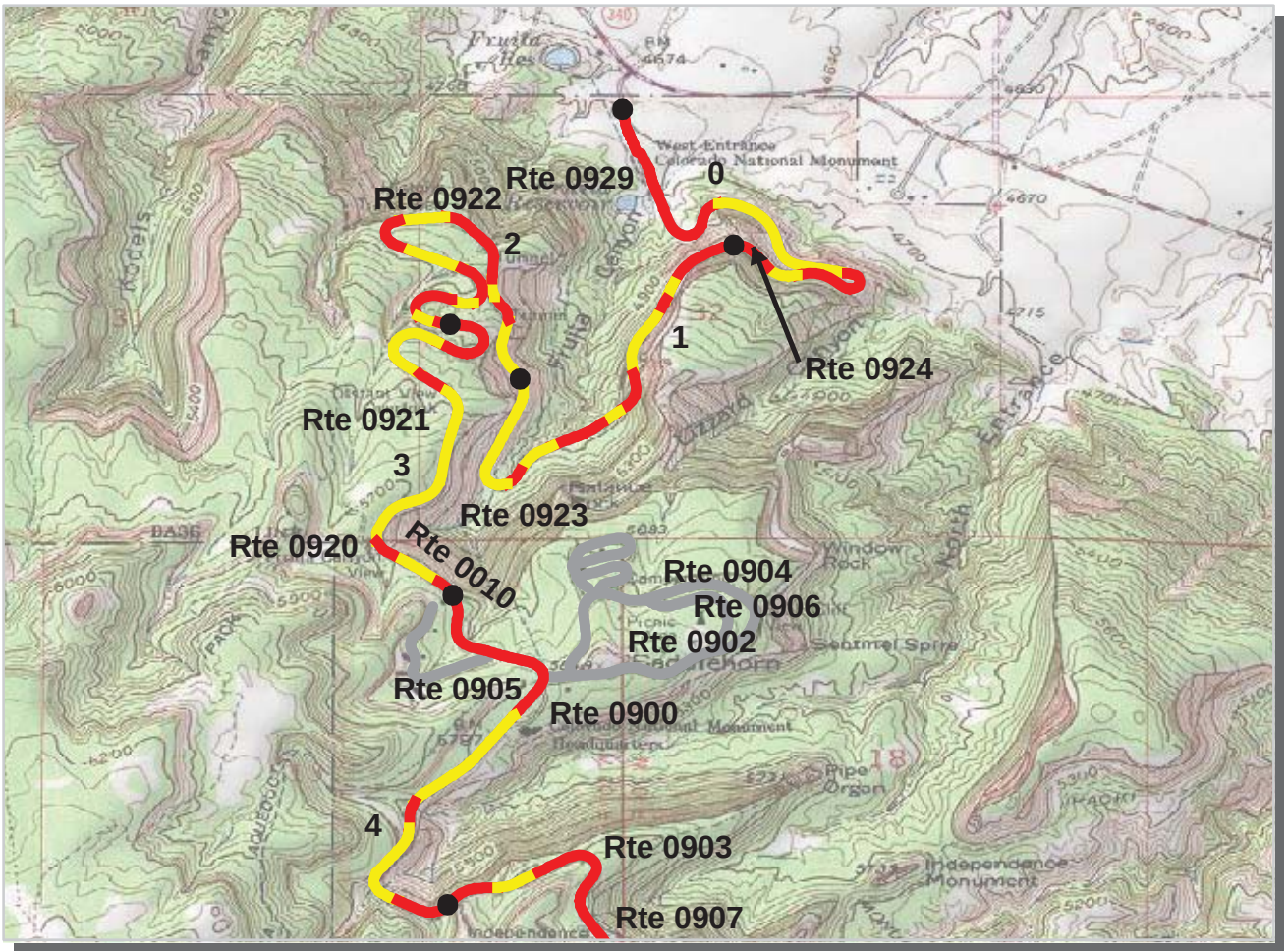
A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed,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

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



PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

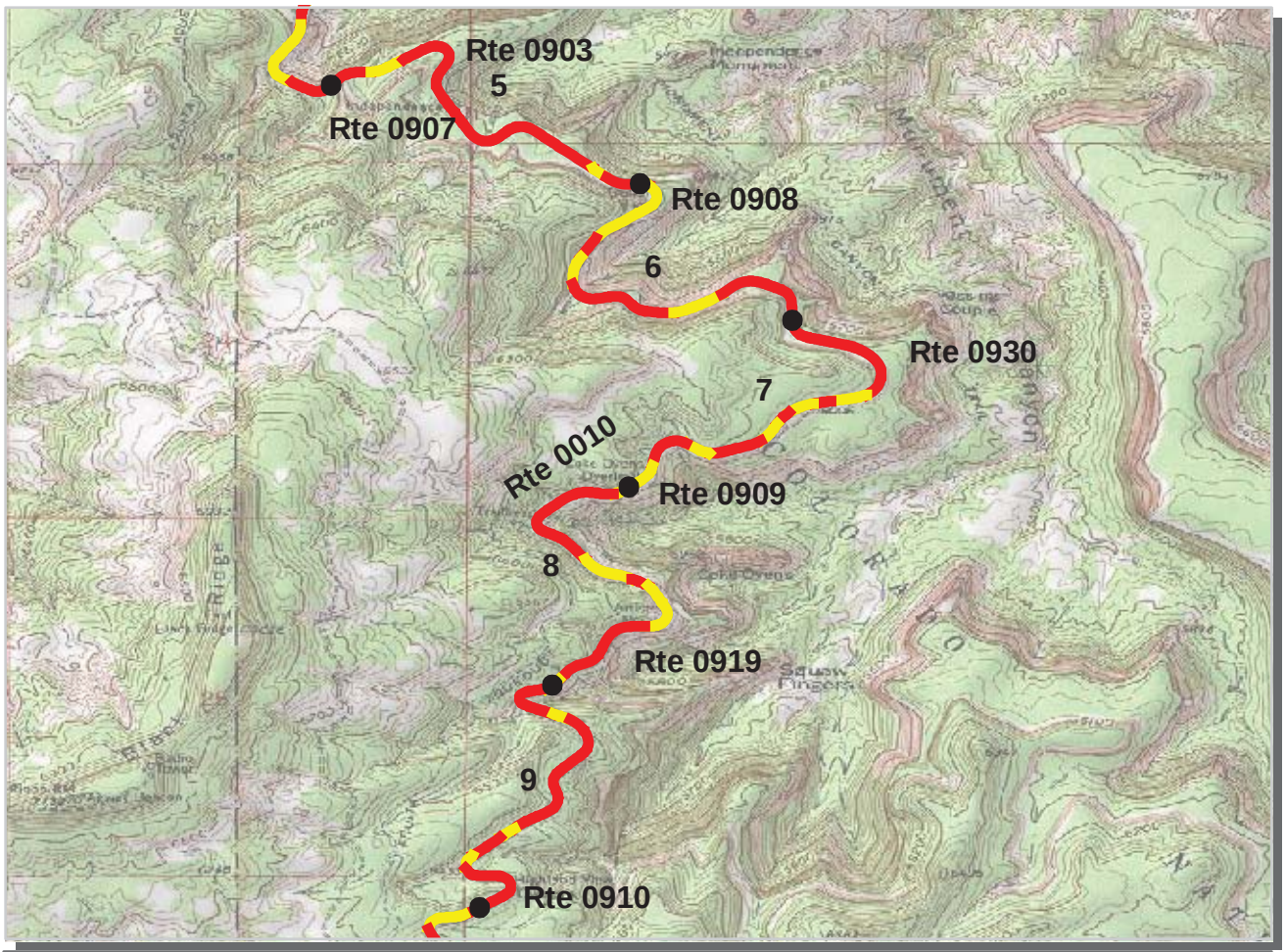
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0010 Rimrock Drive **TOTAL LENGTH: 22.41 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)	18	19	20	20	19
Lane Width (ft)	10	10	9	9	10
Shoulder Width (ft)	0	0	3	5	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	54	62	60	61	58
RCI (Roughness Condition Index)	73	80	72	89	82
SCR (Surface Condition Rating)	46	50	55	42	42
Alligator Cracking Index	100	100	100	99	99
Rutting Index	56	60	61	53	53
Patching Index	100	99	100	100	99
Tranverse Cracking Index	90	92	94	91	91
Longitudinal Cracking Index	98	98	98	96	97
Shoulder Condition Rating	N/A	N/A	GOOD	GOOD	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

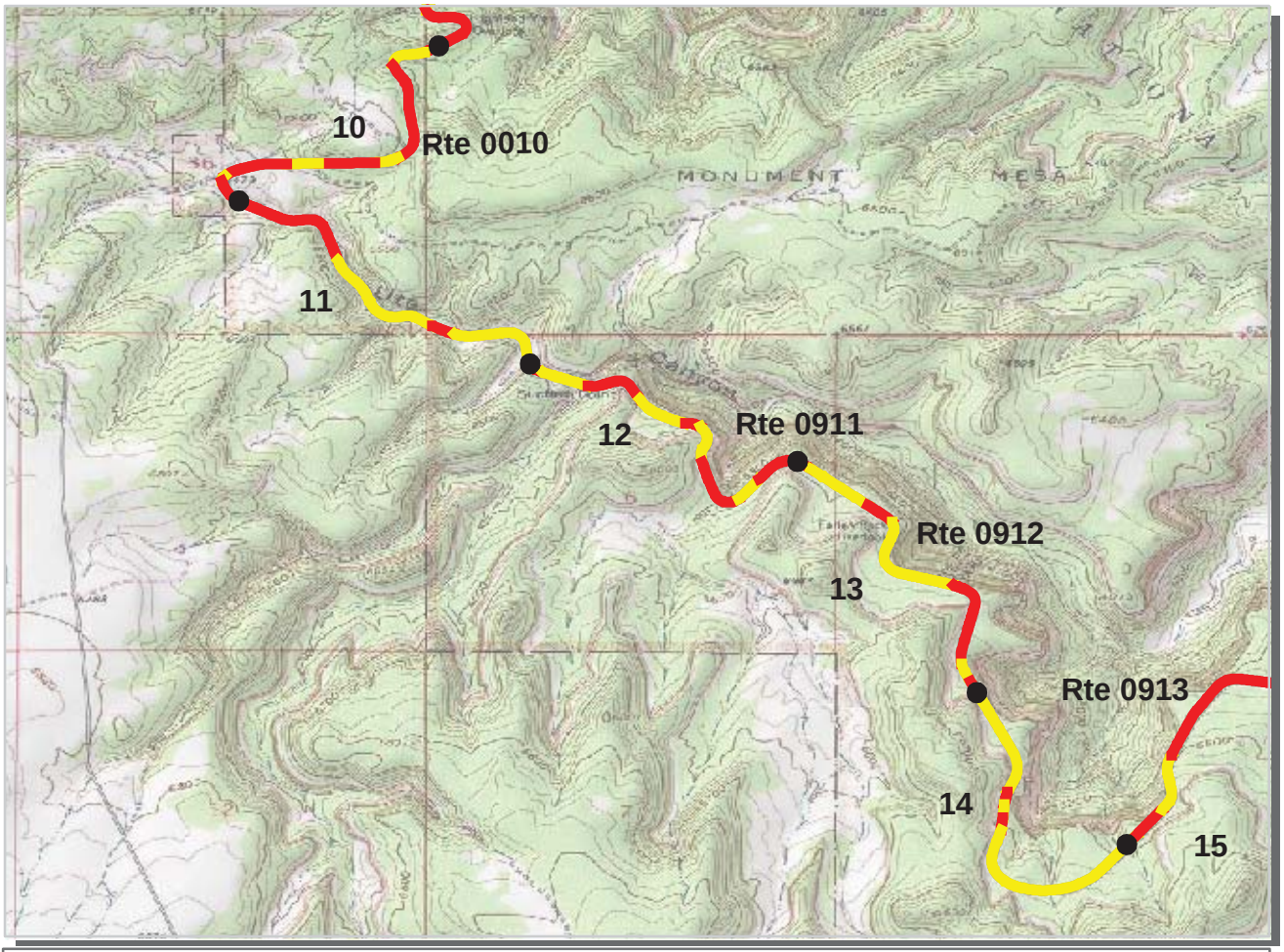
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0010 Rimrock Drive **TOTAL LENGTH: 22.41 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	17	17	19	18
Lane Width (ft)	9	8	8	9	8
Shoulder Width (ft)	3	6	4	0	3
Roadway Condition Information					
PCR (Pavement Condition Rating)	53	59	56	53	48
RCI (Roughness Condition Index)	75	81	80	67	64
SCR (Surface Condition Rating)	39	45	40	43	37
Alligator Cracking Index	99	100	100	99	98
Rutting Index	54	58	52	56	49
Patching Index	100	100	99	100	99
Tranverse Cracking Index	88	90	91	91	92
Longitudinal Cracking Index	95	97	96	96	96
Shoulder Condition Rating	GOOD	GOOD	GOOD	N/A	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR | Poor (<=60) | Fair (61 - 84) | Good (85 - 94) | Excellent (95 - 100)

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

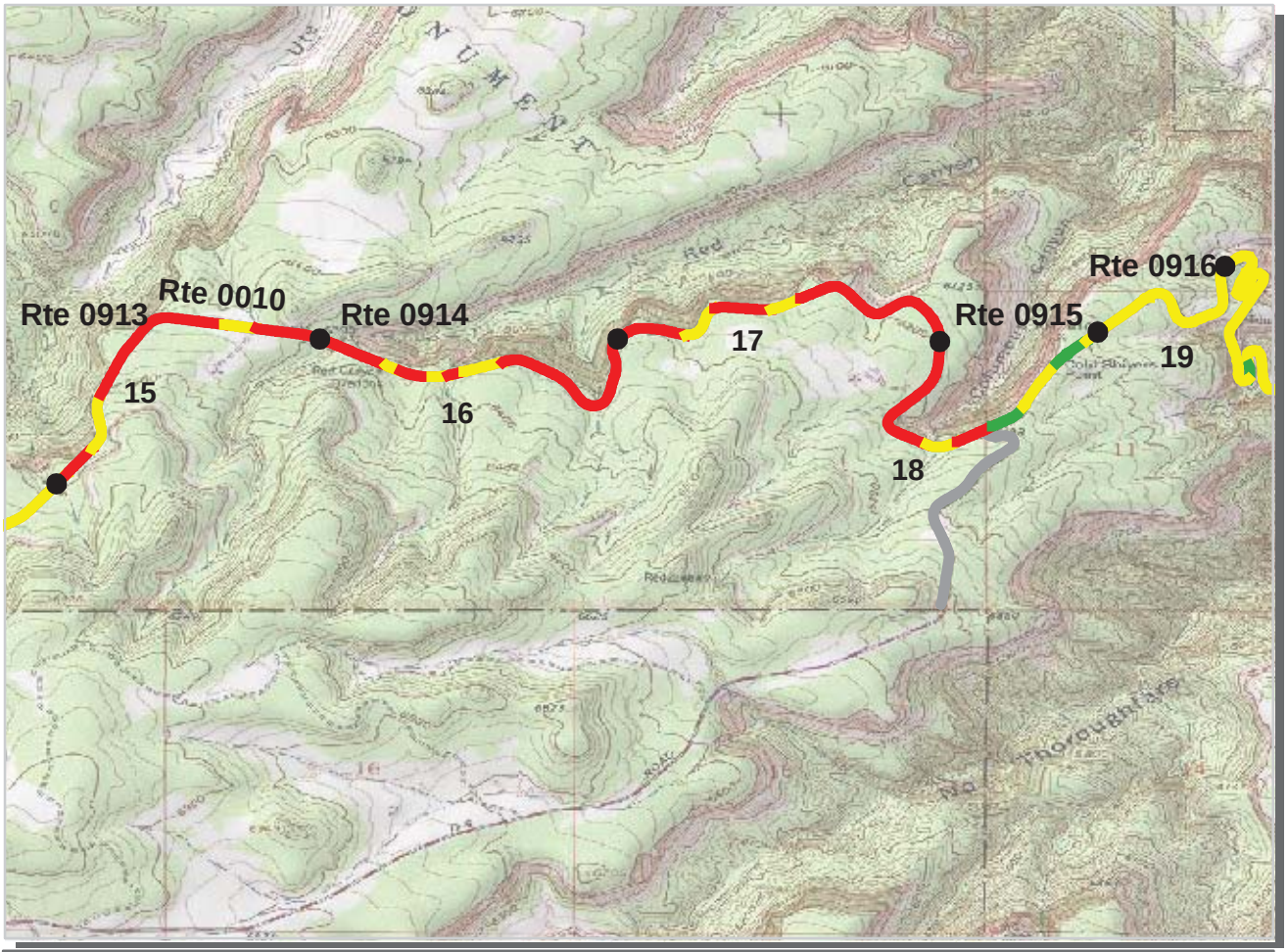
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0010 Rimrock Drive **TOTAL LENGTH: 22.41 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)	17	19	19	18	18
Lane Width (ft)	8	9	10	9	9
Shoulder Width (ft)	4	0	0	4	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	52	59	60	61	64
RCI (Roughness Condition Index)	68	76	77	81	87
SCR (Surface Condition Rating)	43	47	48	47	48
Alligator Cracking Index	99	100	99	100	99
Rutting Index	56	57	56	57	55
Patching Index	100	100	100	100	100
Tranverse Cracking Index	91	92	93	92	94
Longitudinal Cracking Index	95	98	98	98	98
Shoulder Condition Rating	GOOD	N/A	N/A	GOOD	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

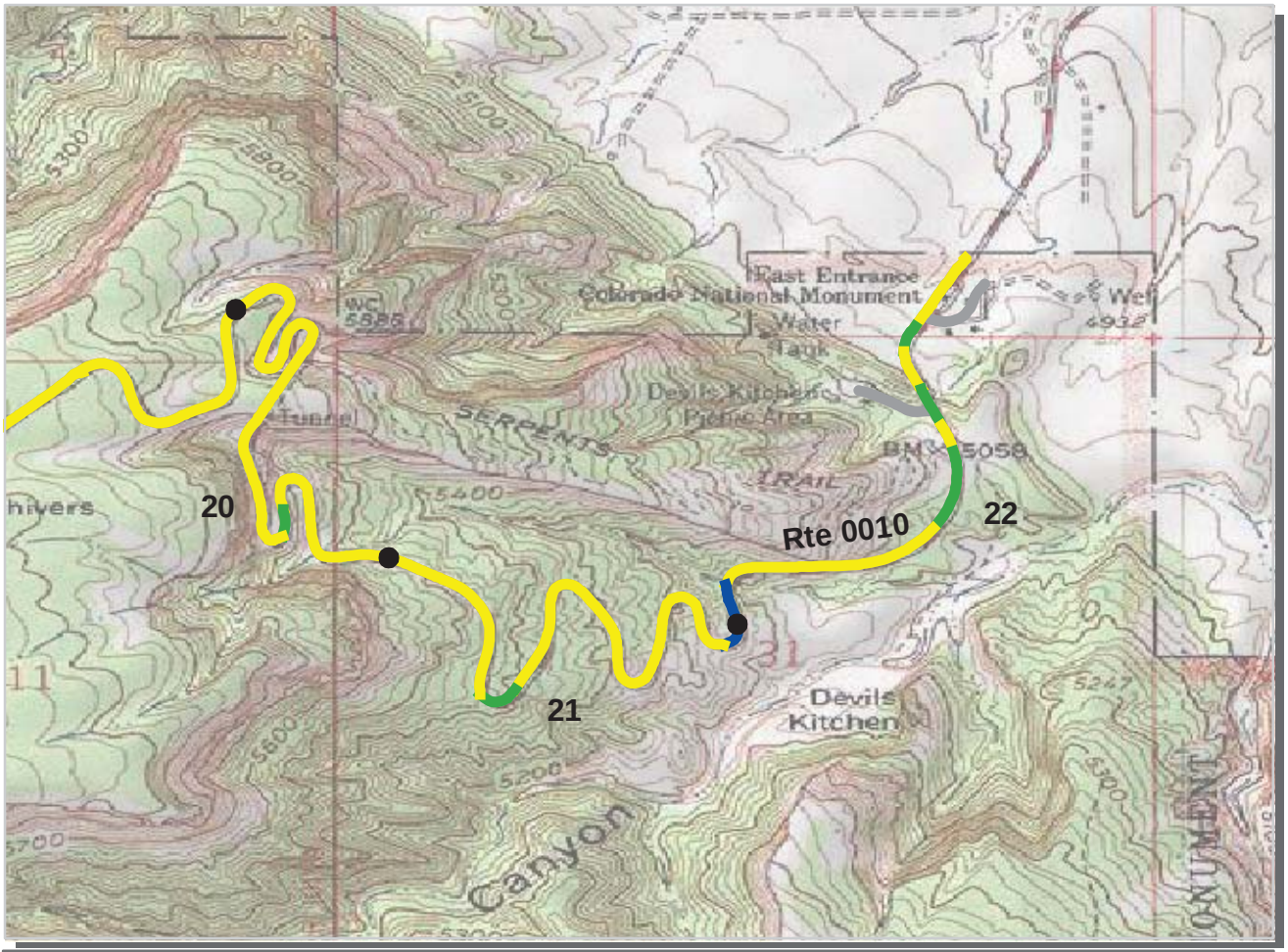
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0010 Rimrock Drive **TOTAL LENGTH: 22.41 Miles**

Section Number	15	16	17	18	19
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)	18	18	18	18	21
Lane Width (ft)	9	9	9	9	10
Shoulder Width (ft)	3	4	5	4	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	55	55	51	65	79
RCI (Roughness Condition Index)	67	75	68	78	85
SCR (Surface Condition Rating)	46	42	40	56	75
Alligator Cracking Index	100	99	99	99	100
Rutting Index	56	54	54	63	76
Patching Index	100	100	100	100	100
Tranverse Cracking Index	91	90	88	94	99
Longitudinal Cracking Index	98	97	97	98	99
Shoulder Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

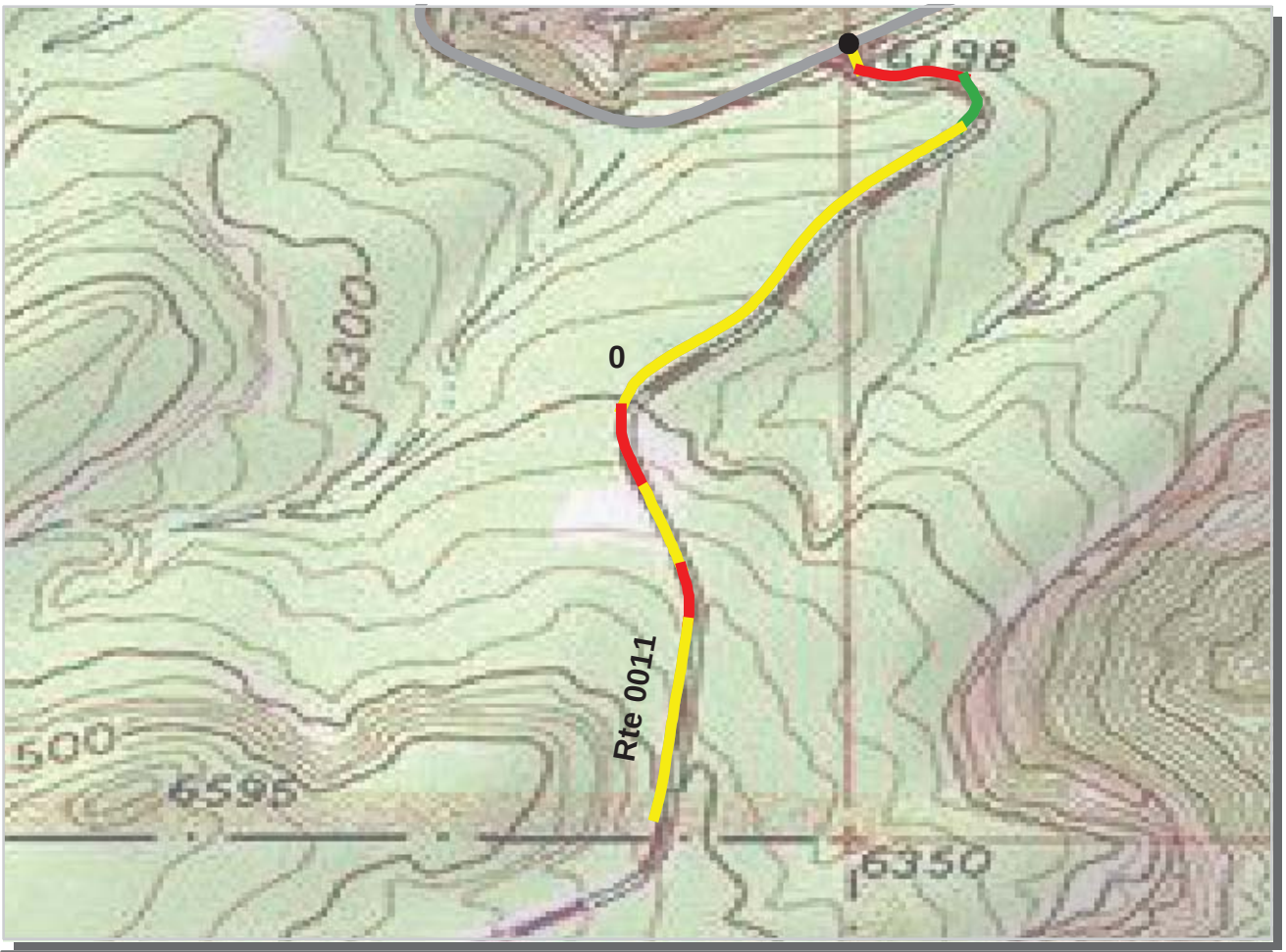
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0010 Rimrock Drive **TOTAL LENGTH: 22.41 Miles**

Section Number	20	21	22		
Section Length (mi)	1.00	1.00	0.41		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	22	24	20		
Lane Width (ft)	11	10	10		
Shoulder Width (ft)	0	0	3		
Roadway Condition Information					
PCR (Pavement Condition Rating)	74	75	72		
RCI (Roughness Condition Index)	85	88	90		
SCR (Surface Condition Rating)	66	67	65		
Alligator Cracking Index	100	99	100		
Rutting Index	67	67	65		
Patching Index	100	100	100		
Tranverse Cracking Index	99	99	99		
Longitudinal Cracking Index	99	99	99		
Shoulder Condition Rating	N/A	N/A	GOOD		
Drainage Condition Rating	GOOD	GOOD	GOOD		

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

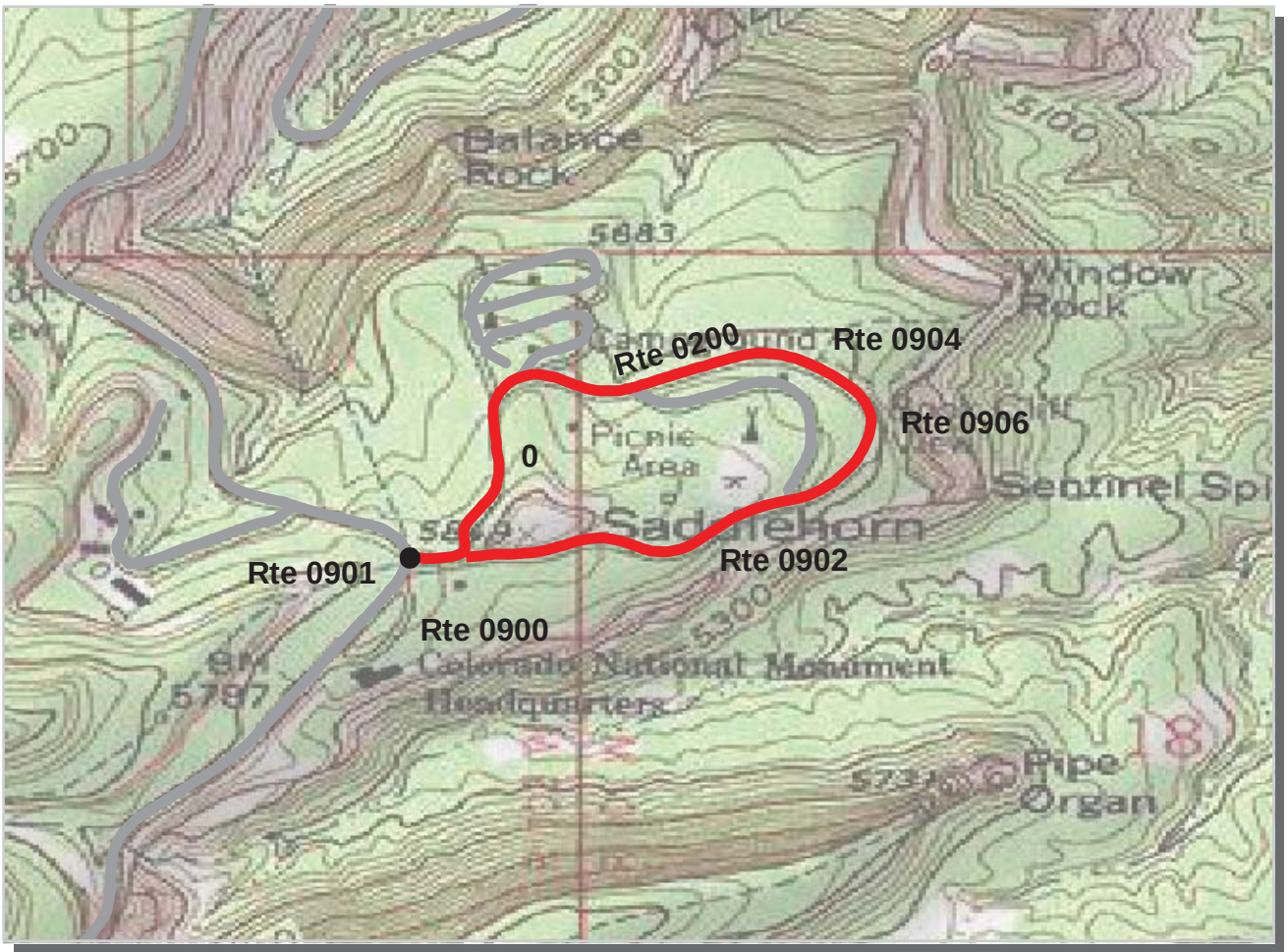
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0011 Glade Park Road **TOTAL LENGTH: 0.72 Miles**

Section Number	0				
Section Length (mi)	0.72				
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)	67				
RCI (Roughness Condition Index)	86				
SCR (Surface Condition Rating)	55				
Alligator Cracking Index	100				
Rutting Index	75				
Patching Index	100				
Tranverse Cracking Index	85				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

Intermountain Region
COLM : Colorado National Monument

ROUTE: 0200 Saddlehorn Amphitheater/Campground Road **TOTAL LENGTH: 0.95 Miles**

Section Number	0				
Section Length (mi)	0.95				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	51				
RCI (Roughness Condition Index)	60				
SCR (Surface Condition Rating)	46				
Alligator Cracking Index	100				
Rutting Index	57				
Patching Index	100				
Tranverse Cracking Index	92				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

Intermountain Region
COLM : Colorado National Monument

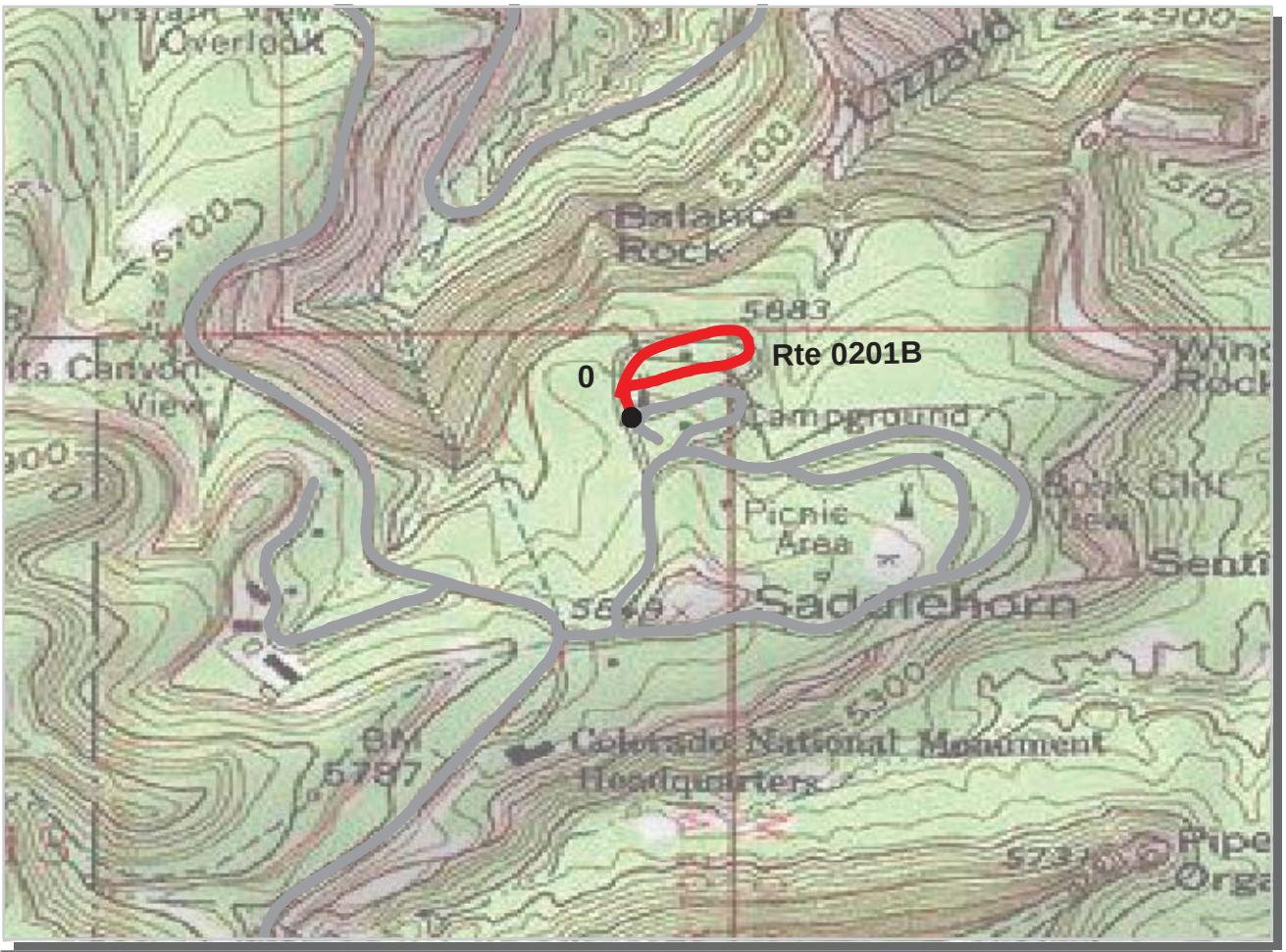
ROUTE: 0201A Saddlehorn Campground Loop A **TOTAL LENGTH: 0.22 Miles**

Section Number	0				
Section Length (mi)	0.22				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	47				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	47				
Alligator Cracking Index	100				
Rutting Index	54				
Patching Index	100				
Tranverse Cracking Index	93				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm

ROUTE: 0201A Saddlehorn Campground Loop A



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

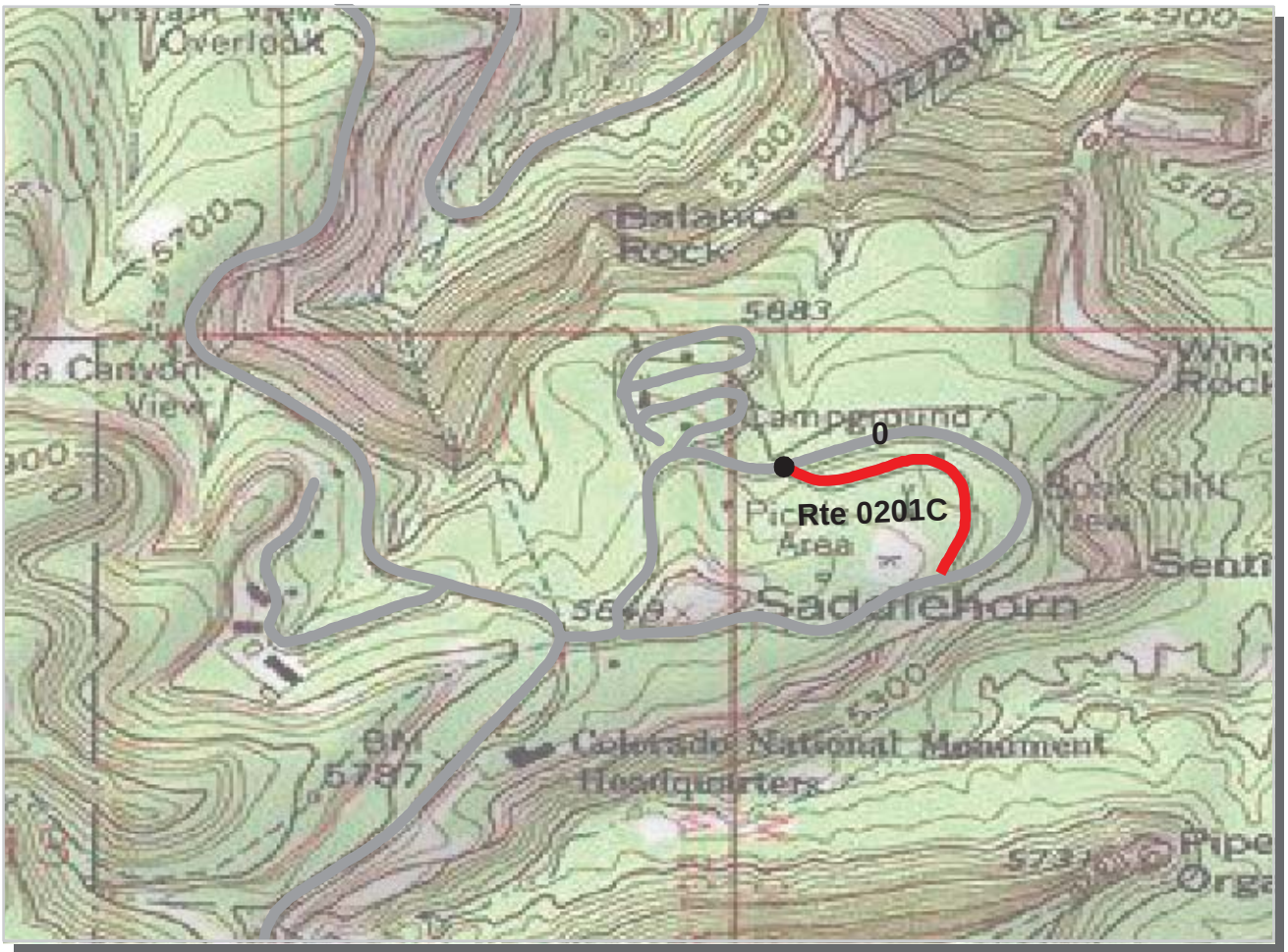
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0201B Saddlehorn Campground Loop B **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)	19				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	52				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	52				
Alligator Cracking Index	100				
Rutting Index	58				
Patching Index	100				
Tranverse Cracking Index	95				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

Intermountain Region
COLM : Colorado National Monument

ROUTE: 0201C Saddlehorn Campground Loop C **TOTAL LENGTH: 0.26 Miles**

Section Number	0				
Section Length (mi)	0.26				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	42				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	42				
Alligator Cracking Index	100				
Rutting Index	50				
Patching Index	100				
Tranverse Cracking Index	93				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

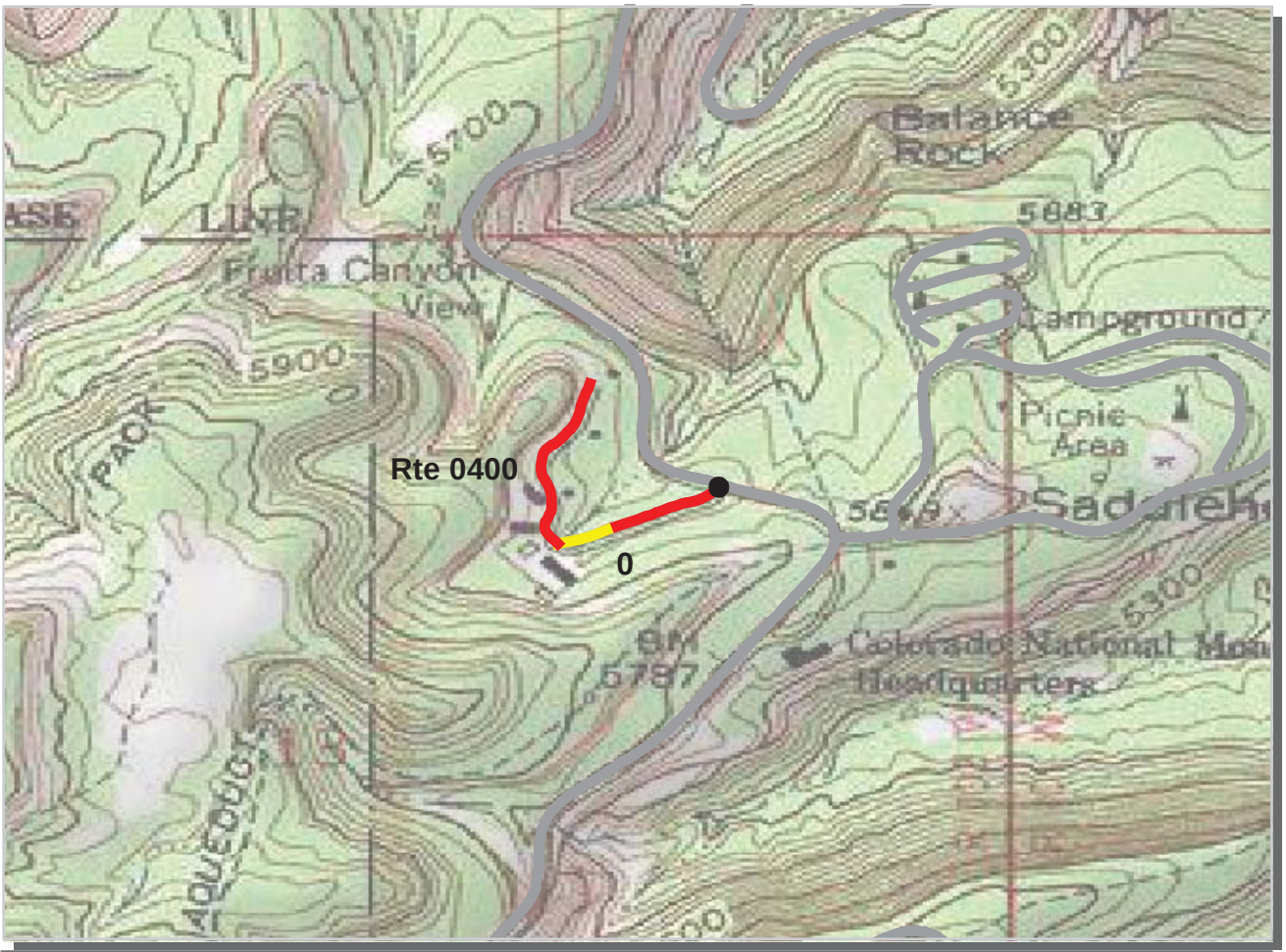
Intermountain Region
COLM : Colorado National Monument

ROUTE: 0202 Devils Kitchen Picnic Area Rd **TOTAL LENGTH: 0.12 Miles**

Section Number	0				
Section Length (mi)	0.12				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	38				
RCI (Roughness Condition Index)	36				
SCR (Surface Condition Rating)	38				
Alligator Cracking Index	100				
Rutting Index	48				
Patching Index	100				
Tranverse Cracking Index	92				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

Intermountain Region
COLM : Colorado National Monument

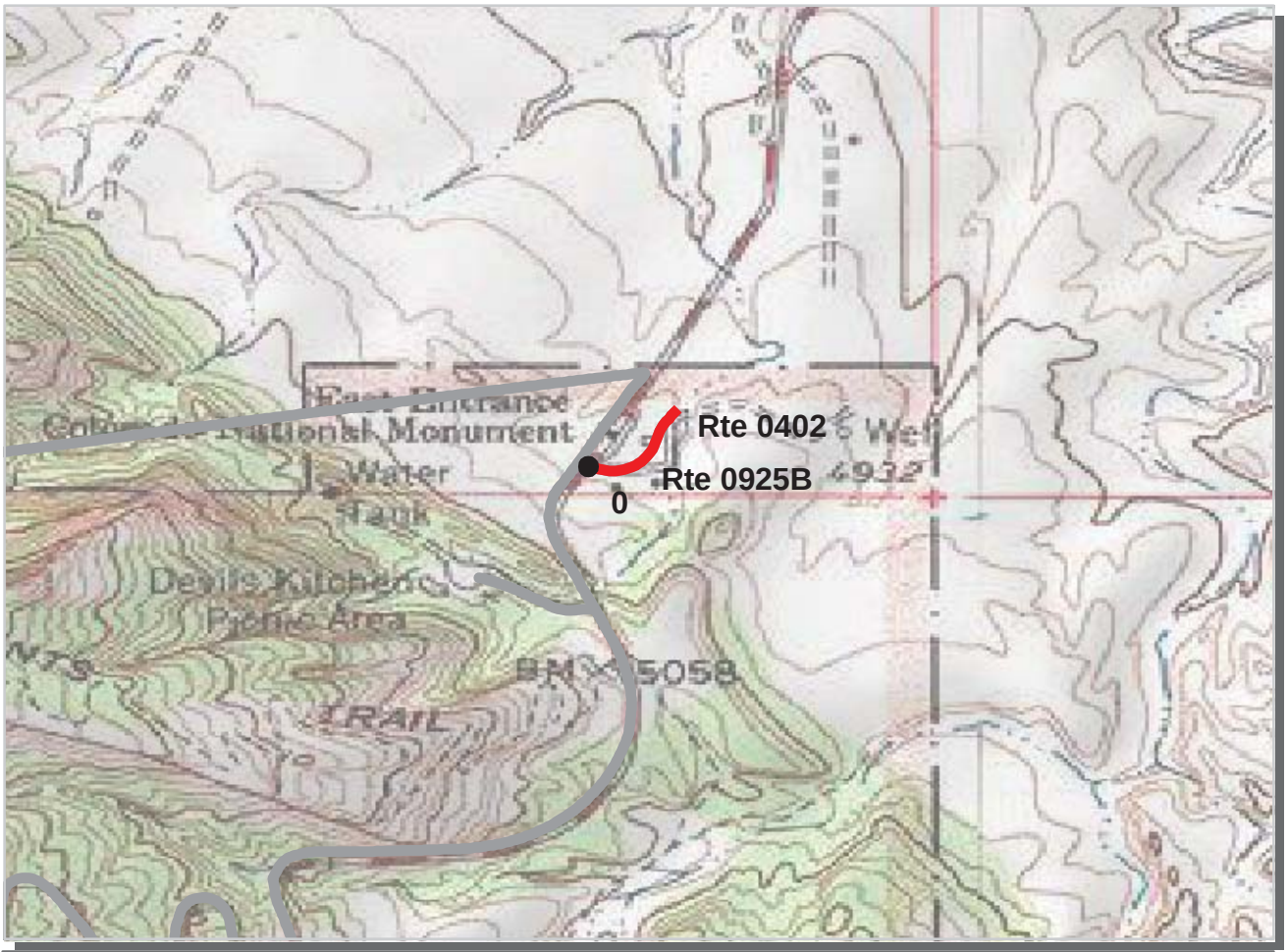
ROUTE: 0400 Maintenance/Residence Area Road **TOTAL LENGTH: 0.33 Miles**

Section Number	0				
Section Length (mi)	0.33				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	43				
RCI (Roughness Condition Index)	43				
SCR (Surface Condition Rating)	41				
Alligator Cracking Index	99				
Rutting Index	55				
Patching Index	99				
Tranverse Cracking Index	91				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm

ROUTE: 0400 Maintenance/Residence Area Road



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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

Intermountain Region
COLM : Colorado National Monument

ROUTE: 0402 East Shop 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)	22				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	22				
Alligator Cracking Index	100				
Rutting Index	35				
Patching Index	100				
Tranverse Cracking Index	91				
Longitudinal Cracking Index	94				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm

Colorado National Monument
Route 0403
Stone House Service Rd
From Route 0200

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0403	0.08	0.00	8268	0.14	POOR / 45	OC

* Lane miles are based on 11' lane widths

100 50 0 100
Feet

N

Colorado National Monument
Route 0900
Visitor Center Parking
Adjacent To Route 0010 at MP 4.4

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	12/11/1999	26488	0.46	OC	FAIR / 73

* Lane miles are based on 11' lane widths

Colorado National Monument
Route 0901
Visitor Center Annex Parking
Adjacent To Route 0200

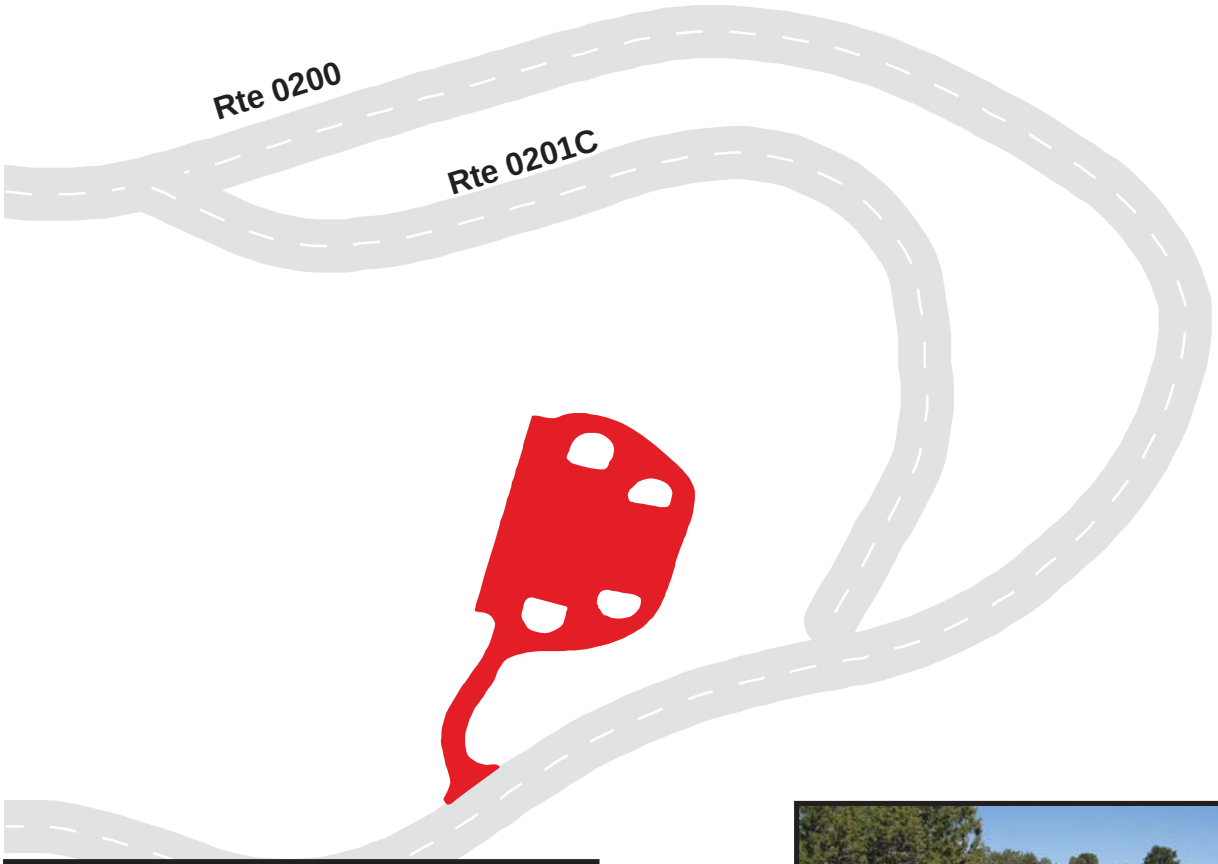
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	12/11/1999	2151	0.04	OC	FAIR / 73

* Lane miles are based on 11' lane widths

Colorado National Monument
Route 0902
Ampitheater Parking
Adjacent To Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902	Public	12/11/1999	43463	0.75	OC	GOOD / 90

* Lane miles are based on 11' lane widths



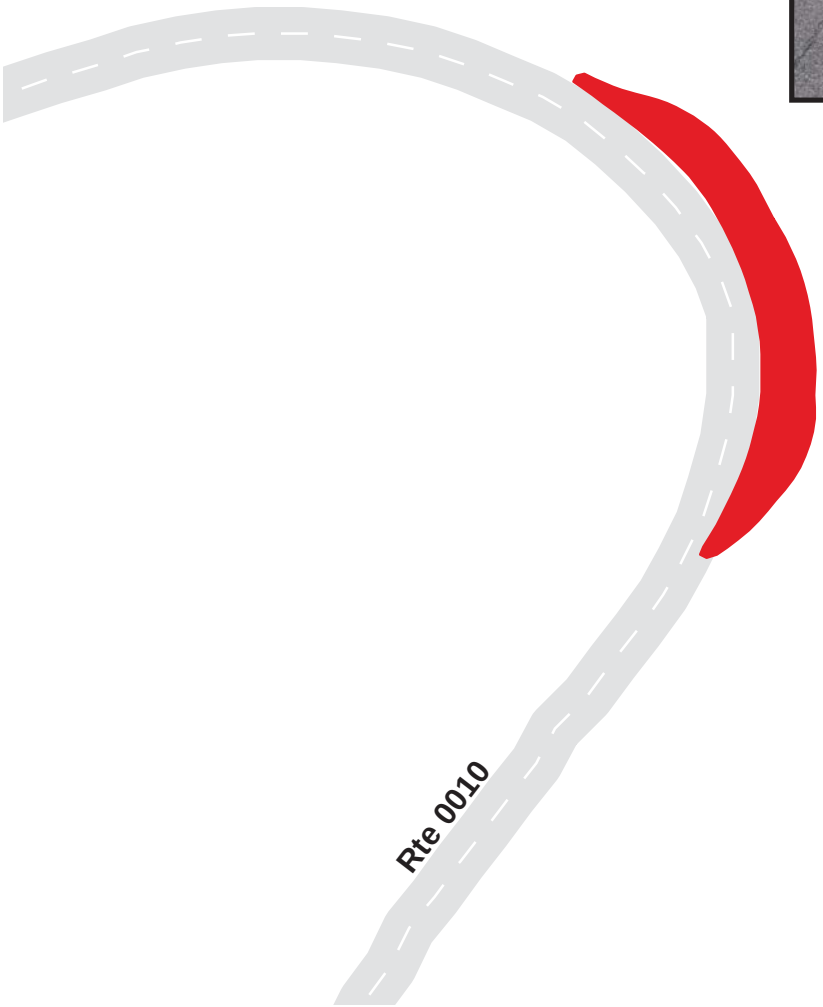
300 150 0 300
Feet

N

Colorado National Monument
Route 0903
Otto's Trailhead Parking
Adjacent To Route 0010 at MP 5.3

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	Public	12/11/1999	3838	0.07	OC	FAIR / 73

* Lane miles are based on 11' lane widths



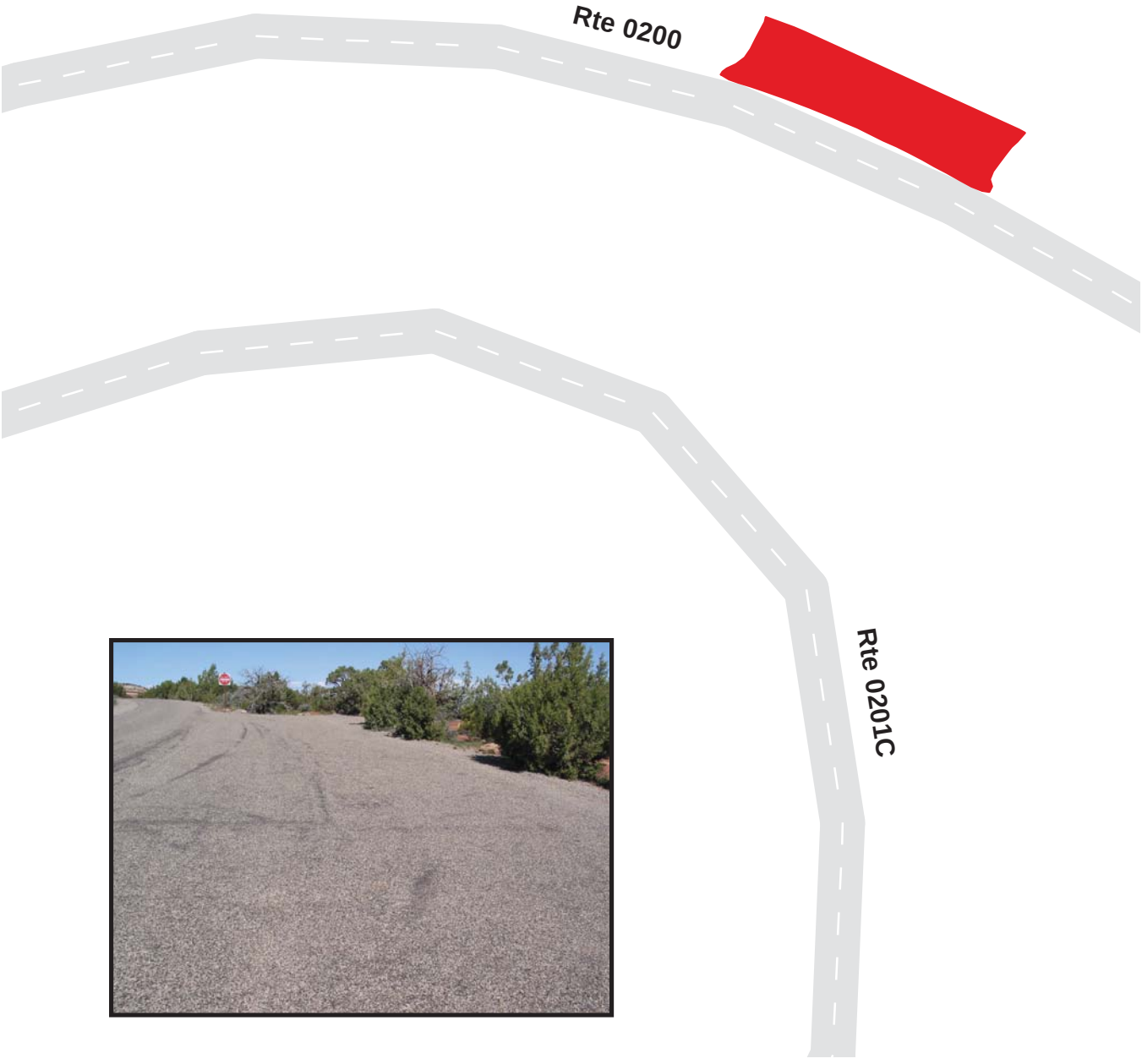
100 50 0 100
Feet

N

Colorado National Monument
Route 0904
Window Rock Nature Trail Parking
Adjacent To Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	Public	12/11/1999	3820	0.07	OC	GOOD / 90

* Lane miles are based on 11' lane widths



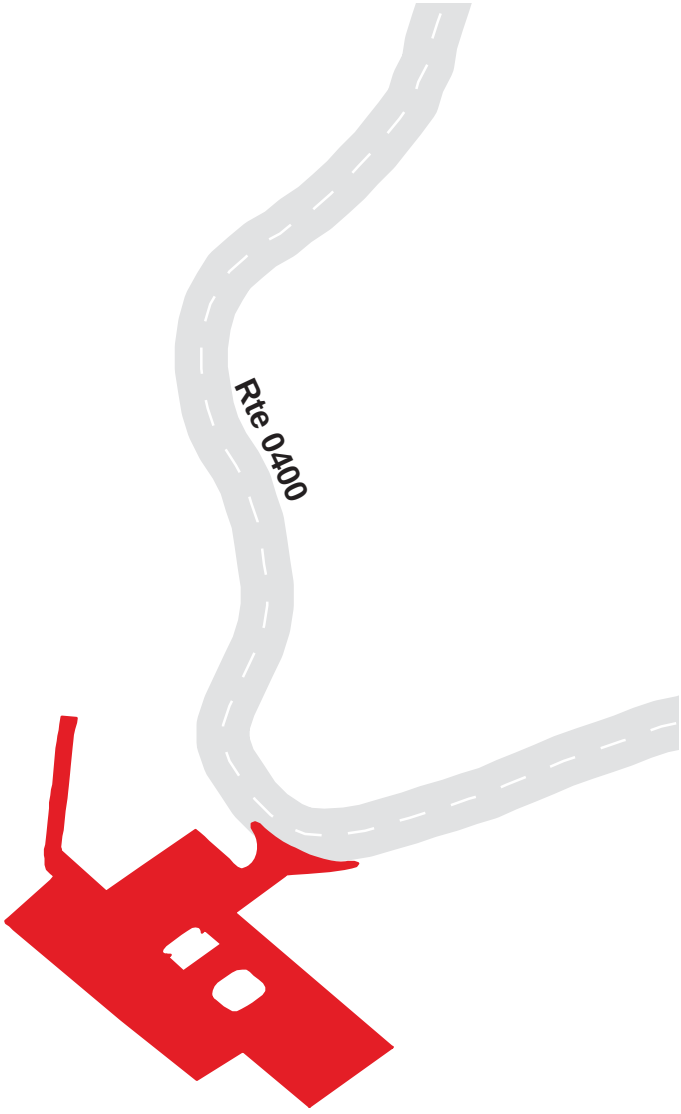
50 25 0 50 100
Feet

N

Colorado National Monument
Route 0905
Park Maintenance Lot Parking
Adjacent To Route 0400

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	NonPublic	12/11/1999	30740	0.53	OC	POOR / 45

* Lane miles are based on 11' lane widths



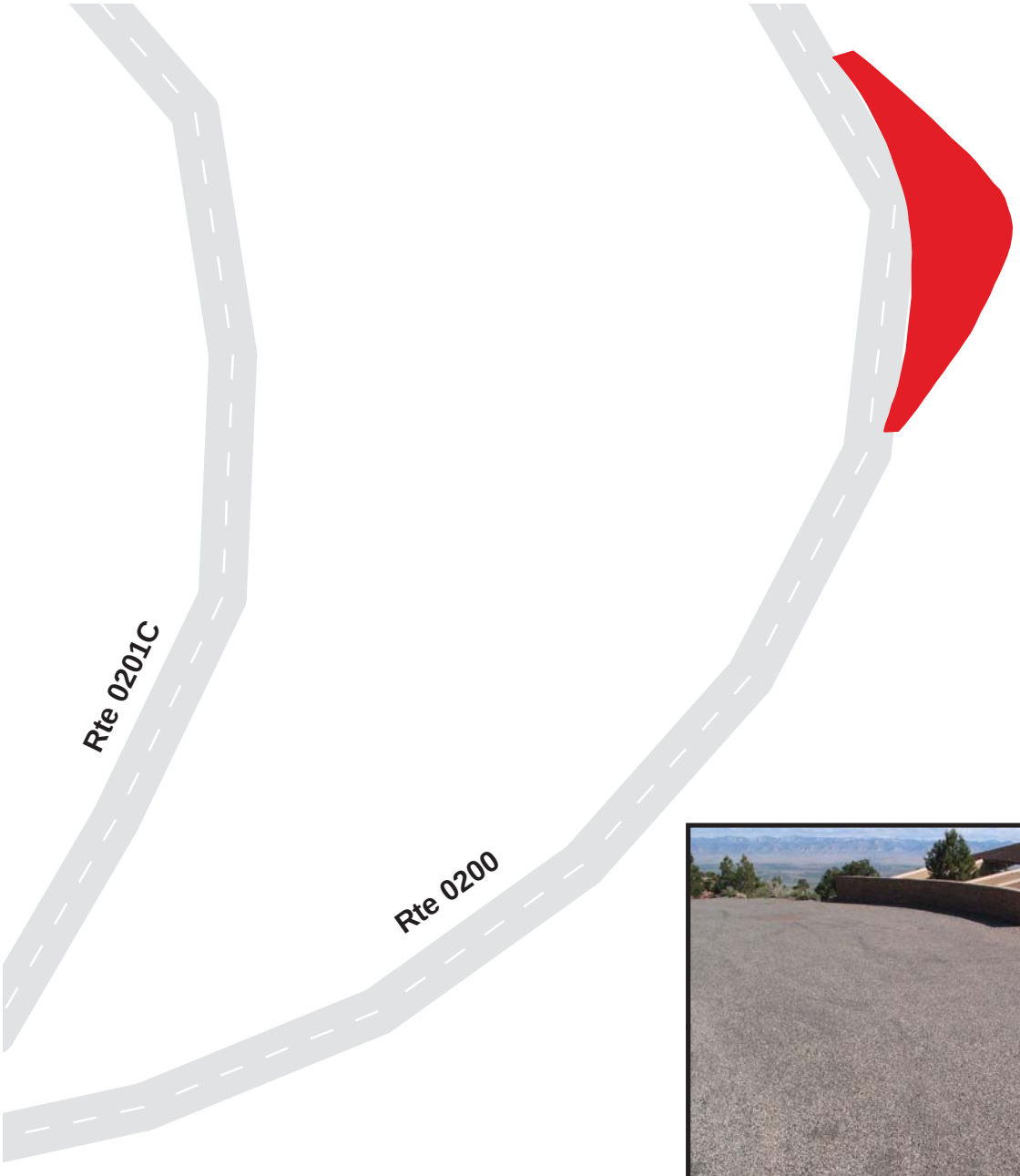
200 100 0 200
Feet

N

Colorado National Monument
Route 0906
Book Cliff View Parking
Adjacent To Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	12/11/1999	4401	0.08	OC	GOOD / 90

* Lane miles are based on 11' lane widths



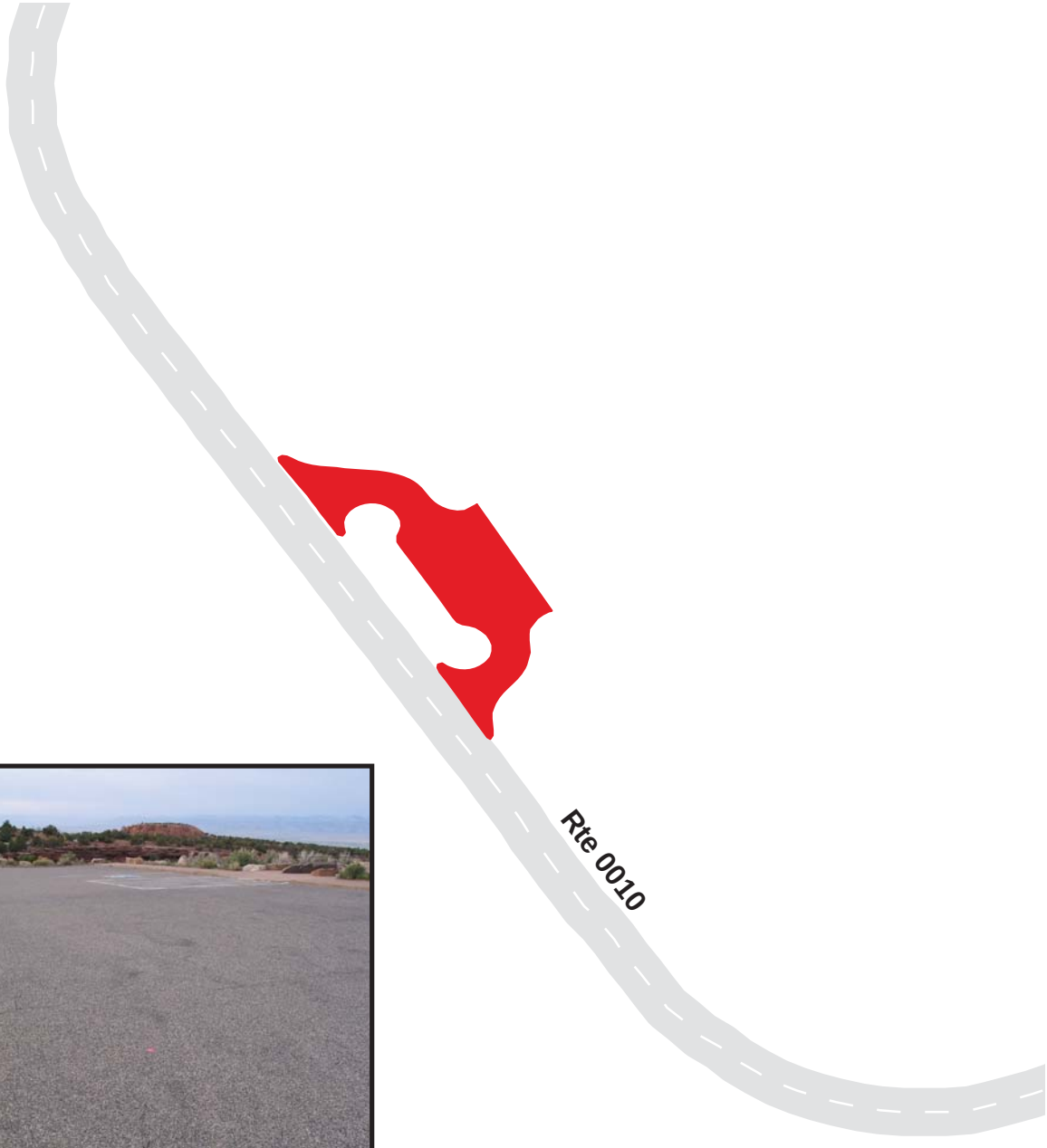
50 25 0 50
Feet

N

Colorado National Monument
Route 0907
Independence Monument View Parking
Adjacent To Route 0010 at MP 5.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	12/11/1999	11442	0.20	OC	FAIR / 73

* Lane miles are based on 11' lane widths



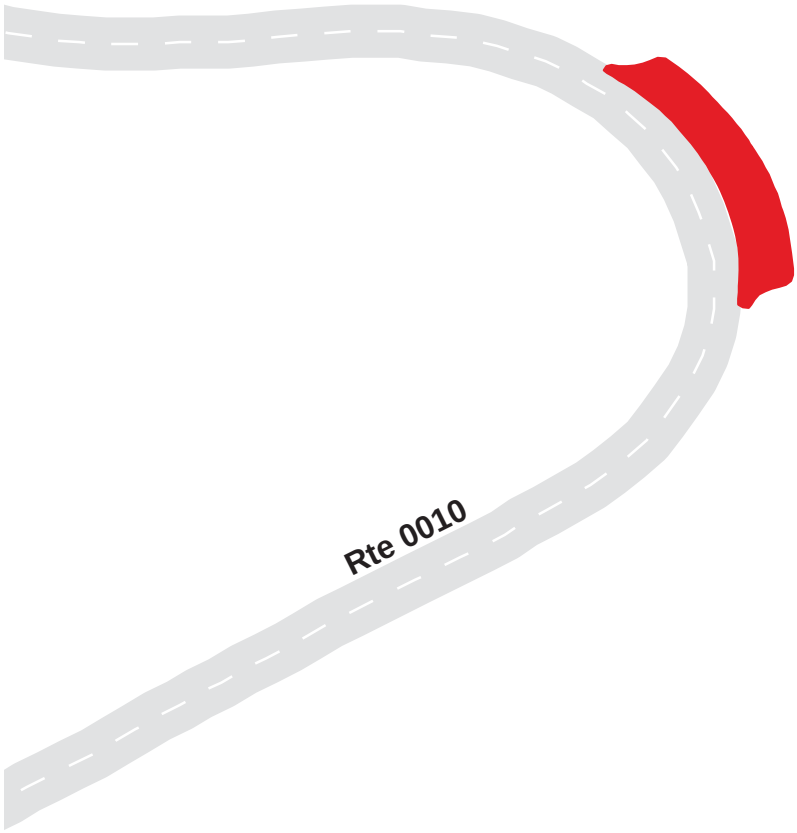
100 50 0 100 200
Feet

N

Colorado National Monument
Route 0908
Grand View Parking
Adjacent To Route 0010 at MP 6.04

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	12/11/1999	5770	0.10	OC	FAIR / 73

* Lane miles are based on 11' lane widths



100 50 0 100 200
Feet

N

Colorado National Monument
Route 0909
Coke Ovens Overlook Parking
Adjacent To Route 0010 at MP 7.94

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	12/11/1999	4907	0.08	OC	FAIR / 73

* Lane miles are based on 11' lane widths

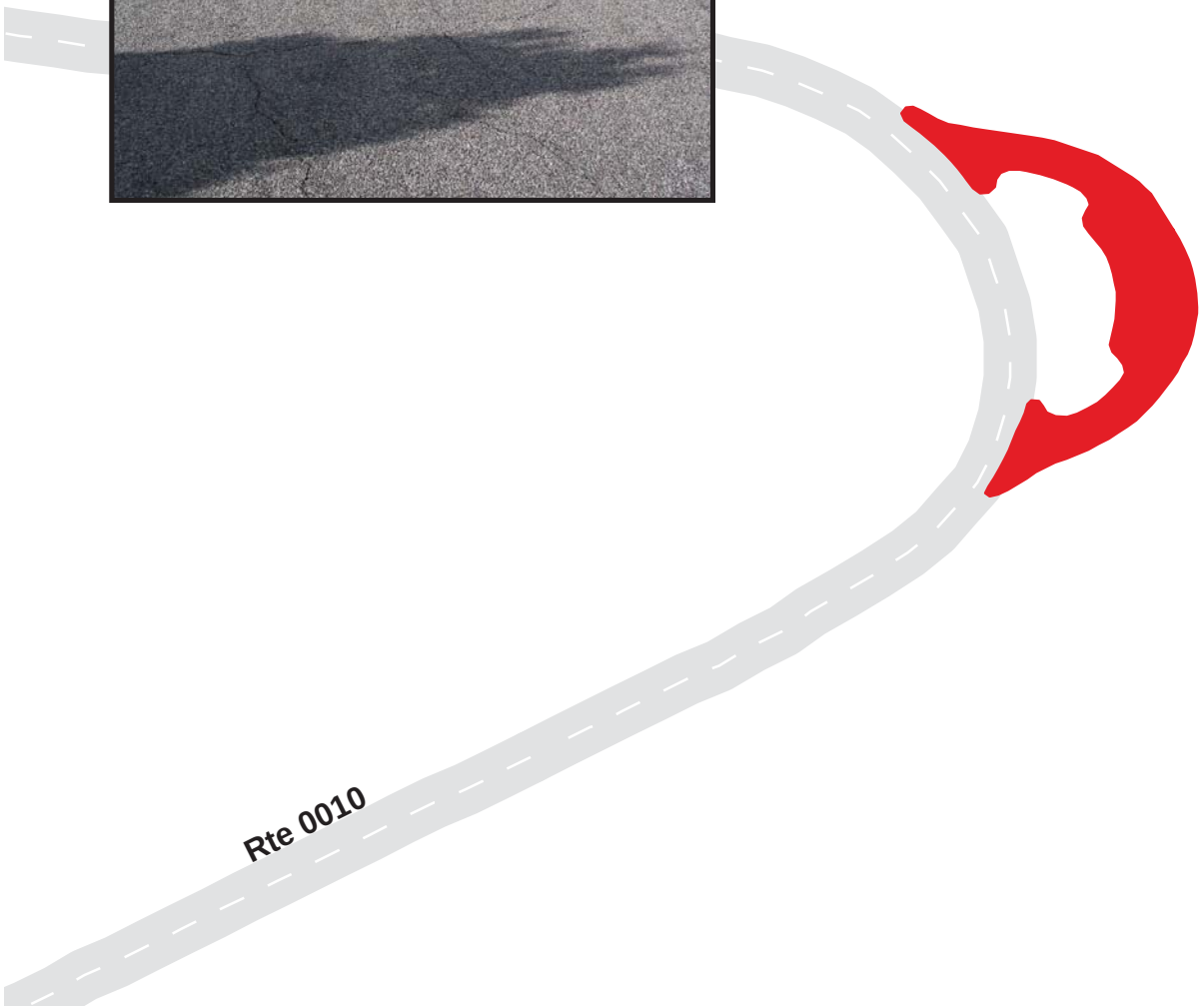
50 25 0 50
Feet

N

Colorado National Monument
Route 0910
Highland View Parking
Adjacent To Route 0010 at MP 9.9

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	Public	12/11/1999	6271	0.11	OC	FAIR / 73

* Lane miles are based on 11' lane widths



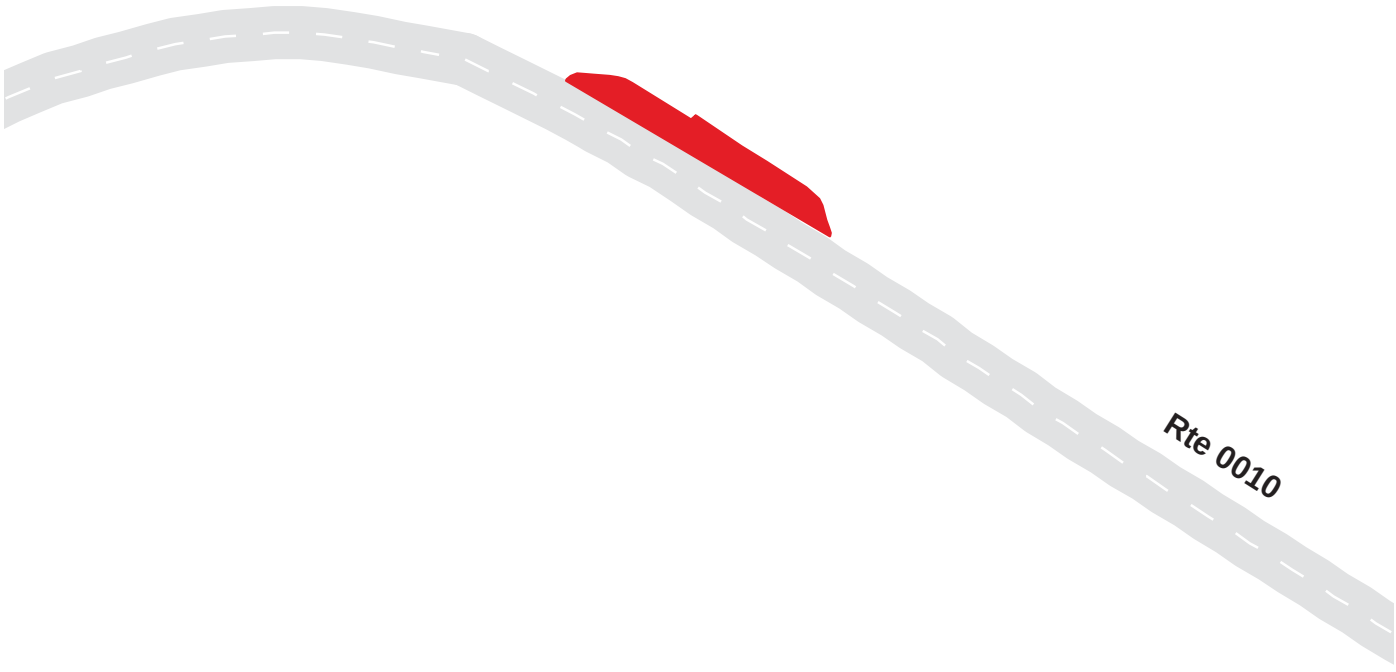
100 50 0 100
Feet

N

Colorado National Monument
Route 0911
Upper Ute Canyon Parking
Adjacent To Route 0010 at MP 13

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	12/11/1999	3560	0.06	OC	FAIR / 73

* Lane miles are based on 11' lane widths



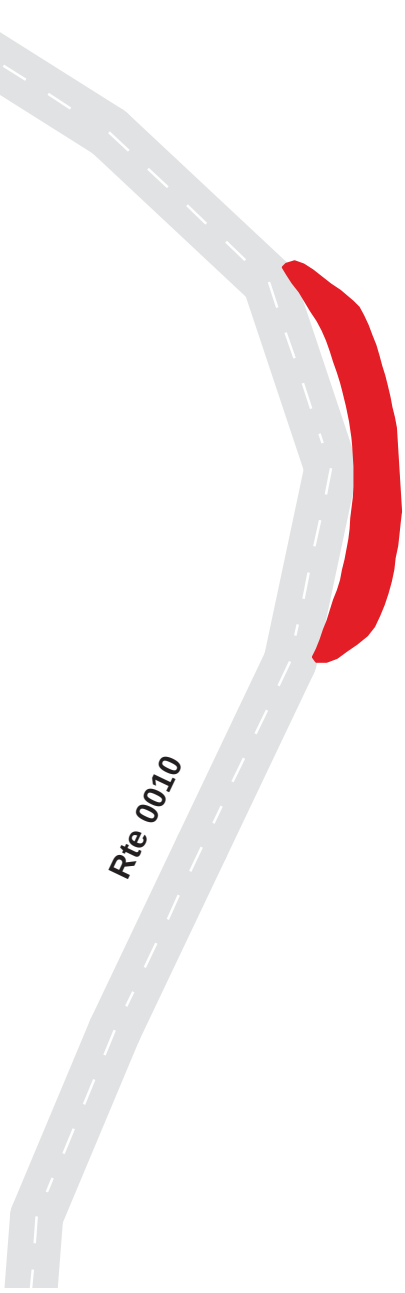
200 100 0 200
Feet

N

Colorado National Monument
Route 0912
Fallen Rock Overlook Parking
Adjacent To Route 0010 at MP 13.3

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	12/11/1999	3993	0.07	OC	GOOD / 90

* Lane miles are based on 11' lane widths



50 25 0 50 100
Feet

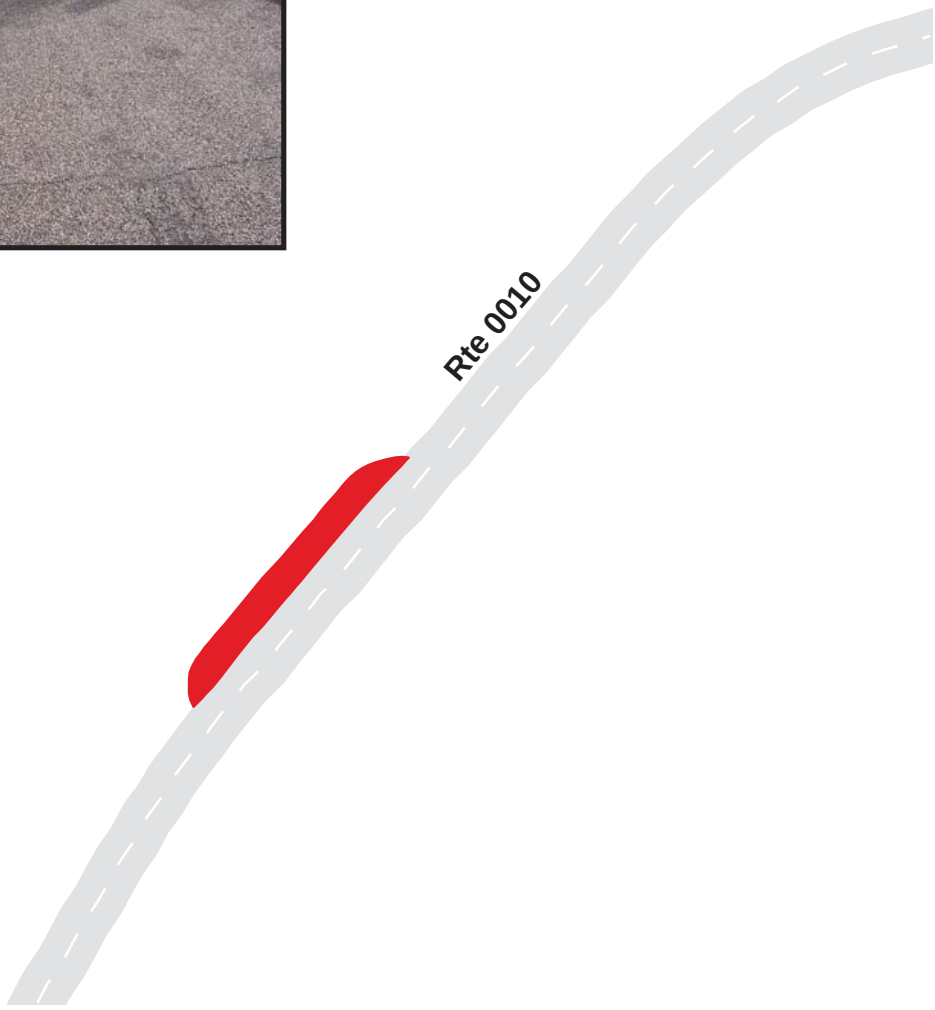
N

Colorado National Monument
Route 0913

Ute Canyon Overlook Parking
Adjacent To Route 0010 at MP 15.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	12/11/1999	3989	0.07	OC	GOOD / 90

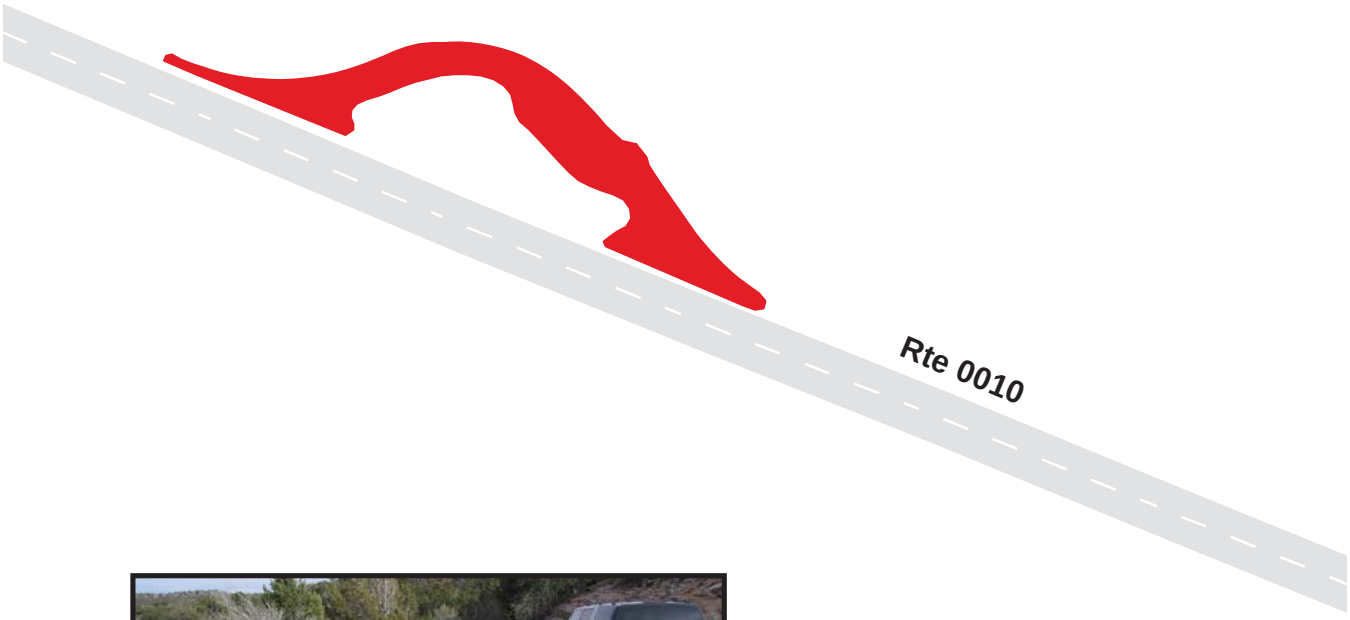
* Lane miles are based on 11' lane widths



Colorado National Monument
Route 0914
Red Canyon Overlook Parking
Adjacent To Route 0010 at MP 16.1

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	Public	12/11/1999	5549	0.10	OC	FAIR / 73

* Lane miles are based on 11' lane widths



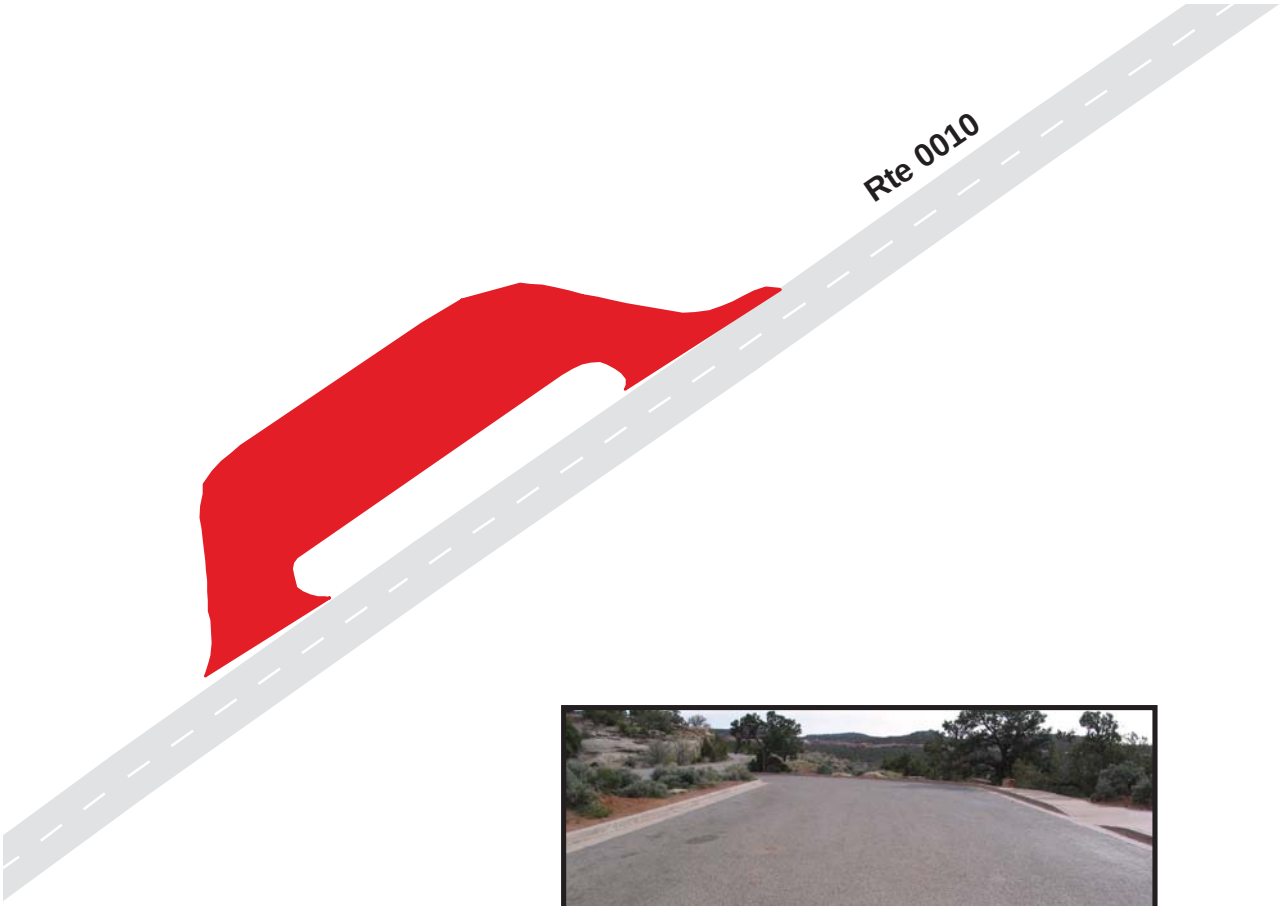
50 25 0 50 100 Feet

N

Colorado National Monument
Route 0915
Cold Shivers Parking
Adjacent To Route 0010 at MP 18.9

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	12/11/1999	5546	0.10	OC	GOOD / 90

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

N

Colorado National Monument
Route 0916
Serpent Trail Parking
Adjacent To Route 0010 at MP 19.8

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	Public	12/12/1999	2482	0.04	OC	GOOD / 90

* Lane miles are based on 11' lane widths

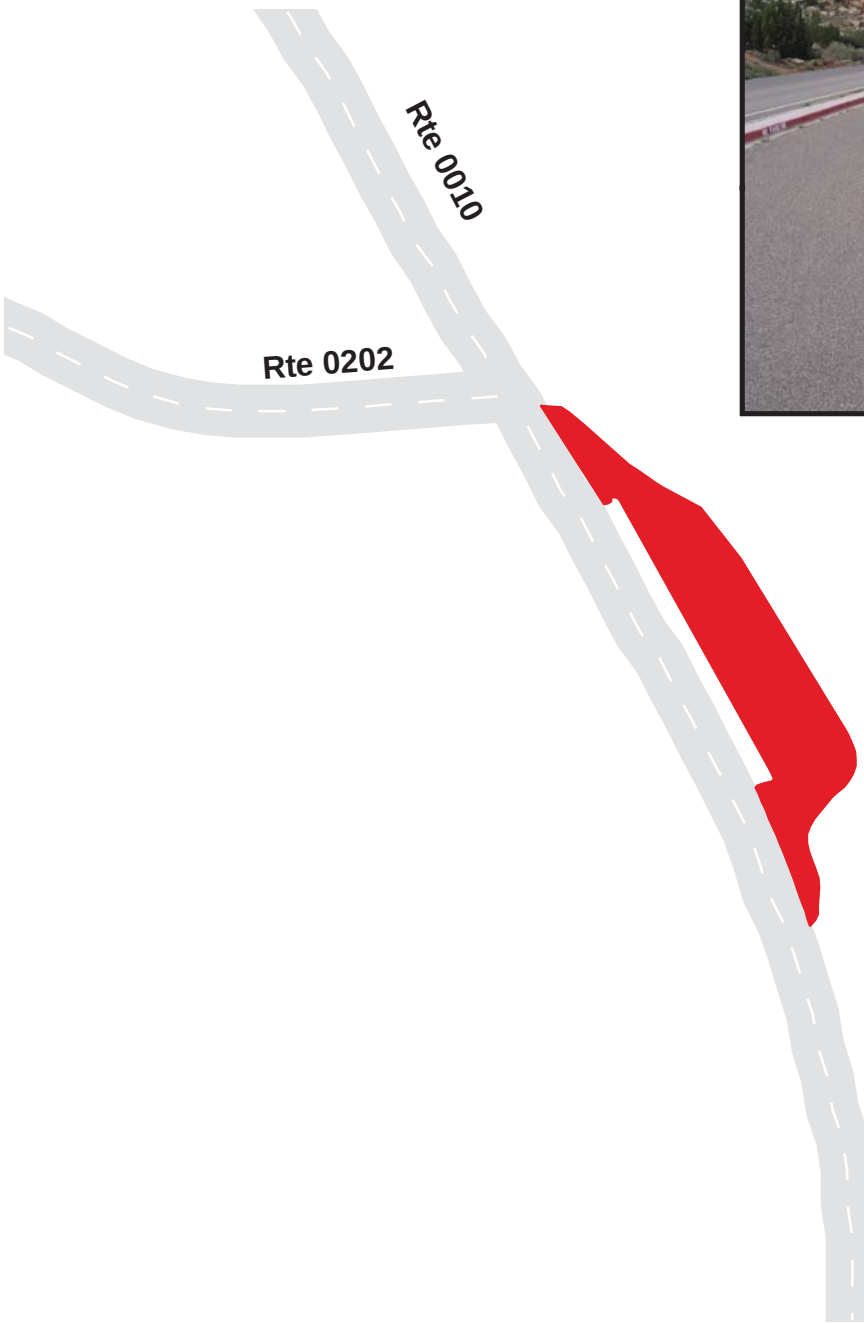
50 25 0 50 100 Feet

N

Colorado National Monument
Route 0917
Devils Kitchen Trailhead Parking
Adjacent To Route 0010 at MP 19.45

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	Public	12/12/1999	8638	0.15	OC	GOOD / 90

* Lane miles are based on 11' lane widths



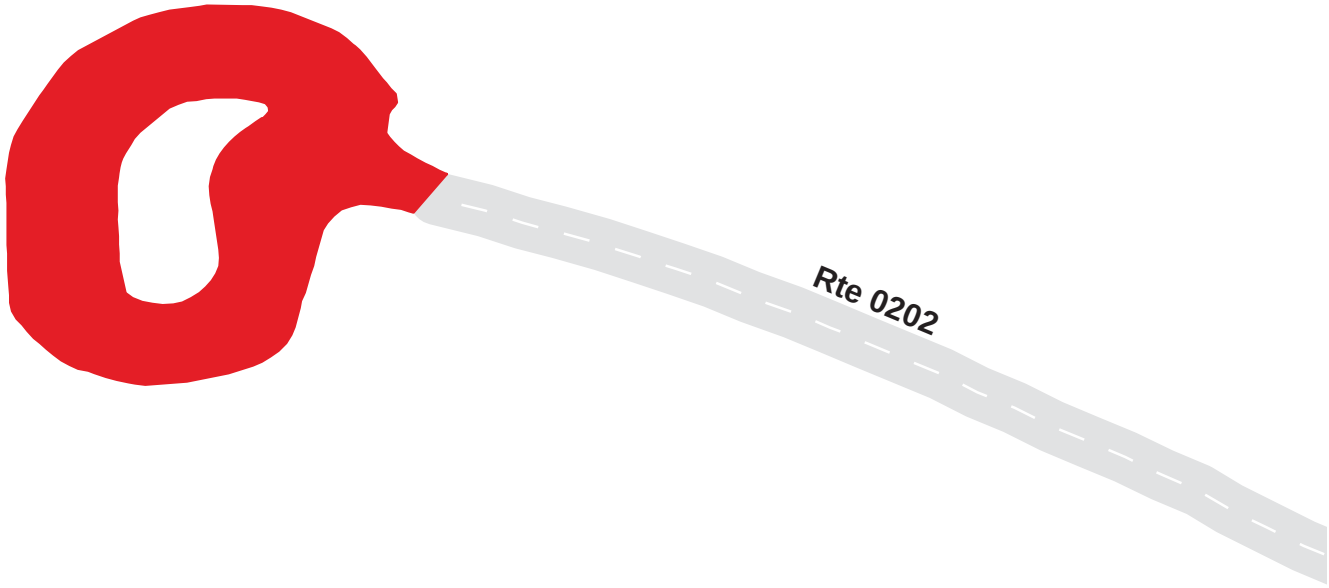
100 50 0 100
Feet

N

Colorado National Monument
Route 0918
Devils Garden Picnic Area Parking
End of Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918	Public	12/12/1999	15143	0.26	OC	FAIR / 73

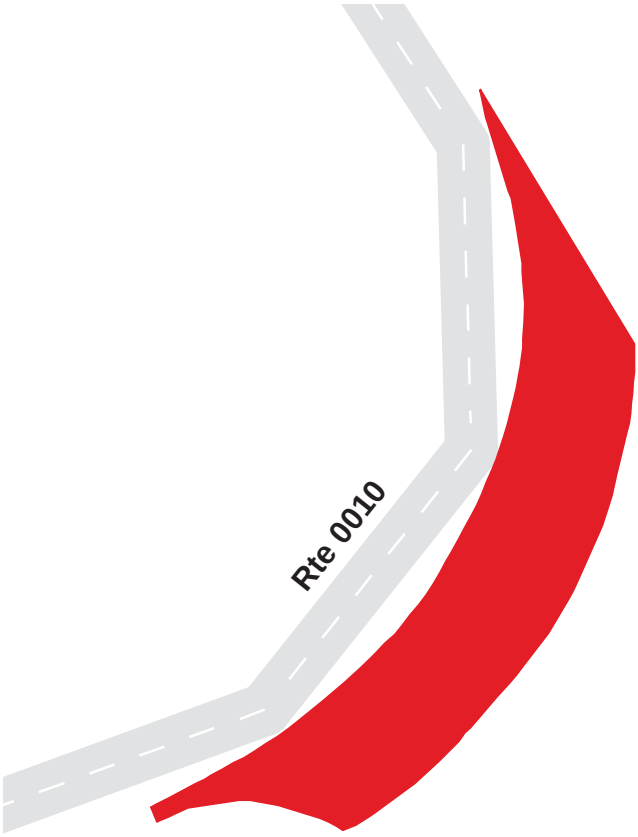
* Lane miles are based on 11' lane widths



Colorado National Monument
Route 0919
Artists Point Parking
Adjacent To Route 0010 at MP 8.7

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	12/12/1999	7233	0.12	OC	GOOD / 90

* Lane miles are based on 11' lane widths



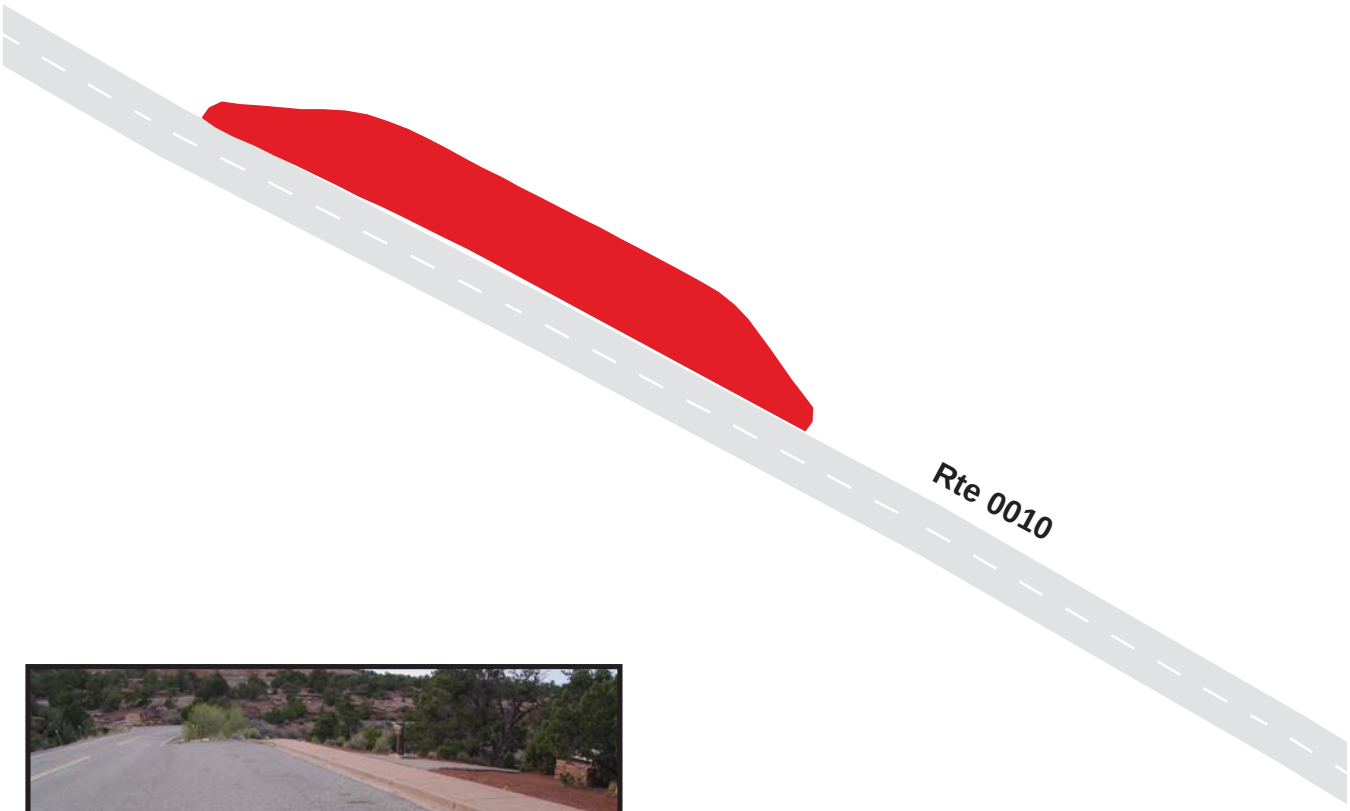
50 25 0 50
Feet

N

Colorado National Monument
Route 0920
Fruita View Parking
Adjacent To Route 0010 at MP 3.9

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920	Public	12/11/1999	3140	0.05	OC	FAIR / 73

* Lane miles are based on 11' lane widths



50 25 0 50 Feet

N

Colorado National Monument
Route 0921
Distant View Parking
Adjacent To Route 0010 at MP 3.45

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921	Public	12/11/1999	3858	0.07	OC	FAIR / 73

* Lane miles are based on 11' lane widths

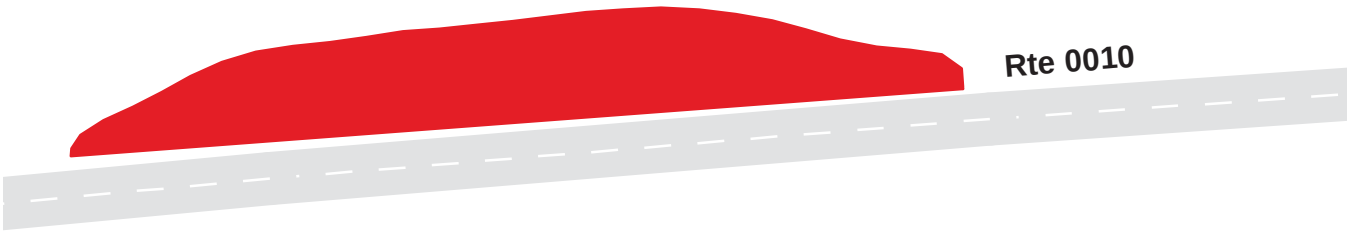
50 25 0 50
Feet

N

Colorado National Monument
Route 0922
Historic Trails View Parking
Adjacent To Route 0010 at MP 2.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922	Public	12/11/1999	1996	0.03	OC	GOOD / 90

* Lane miles are based on 11' lane widths



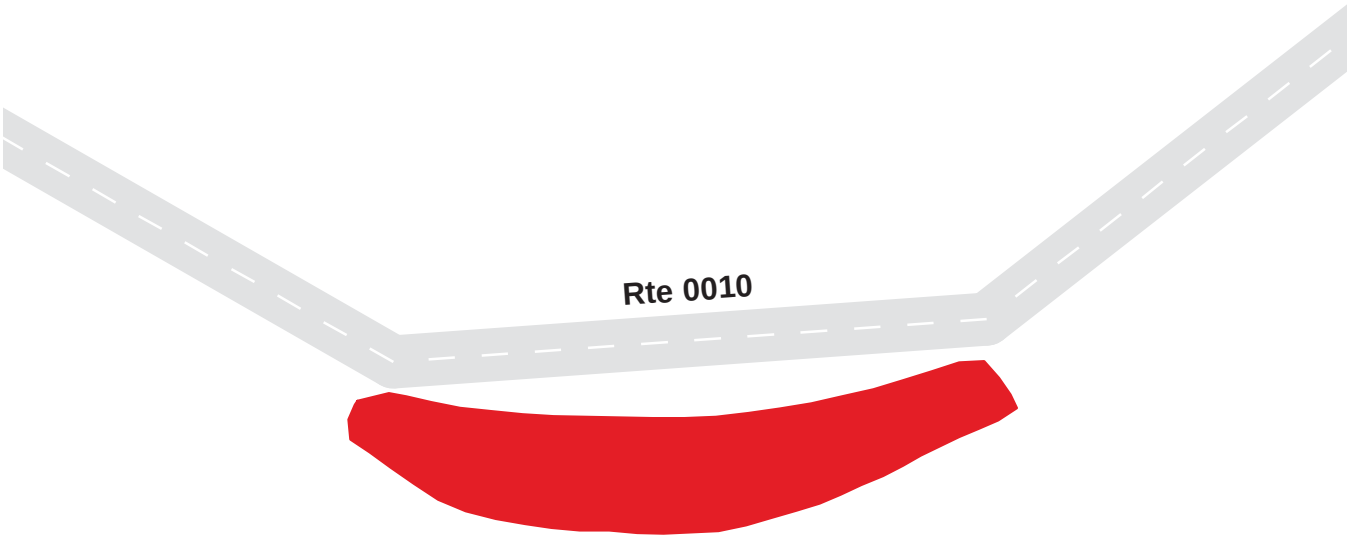
50 25 0 50 Feet

N

Colorado National Monument
Route 0923
Balanced Rock Parking
Adjacent To Route 0010 at MP 1.7

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923	Public	12/11/1999	2392	0.04	OC	FAIR / 73

* Lane miles are based on 11' lane widths



50 25 0 50
Feet

N

Colorado National Monument
Route 0924
Redlands View Parking
Adjacent To Route 0010 at MP 1.0

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0924	Public	12/11/1999	3140	0.05	OC	GOOD / 90

* Lane miles are based on 11' lane widths

50 25 0 50
Feet

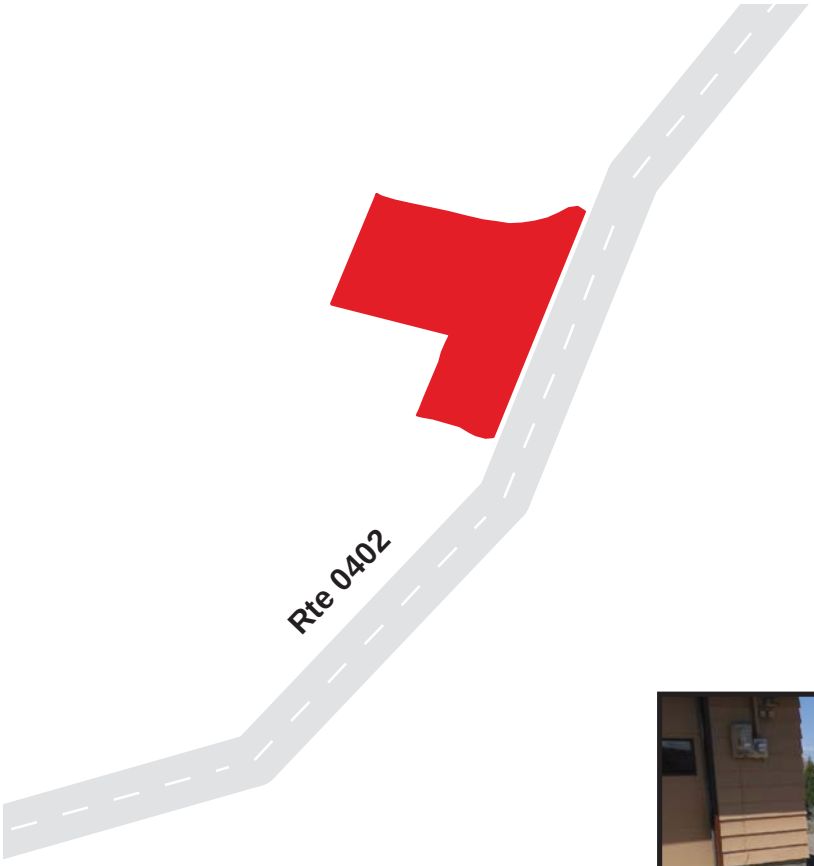
N

Colorado National Monument
Route 0925A

East Entrance Residence/Maintenance Parking A
Adjacent To Route 0402 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925A	NonPublic	12/12/1999	2593	0.04	OC	FAIR / 73

* Lane miles are based on 11' lane widths



50 25 0 50
Feet

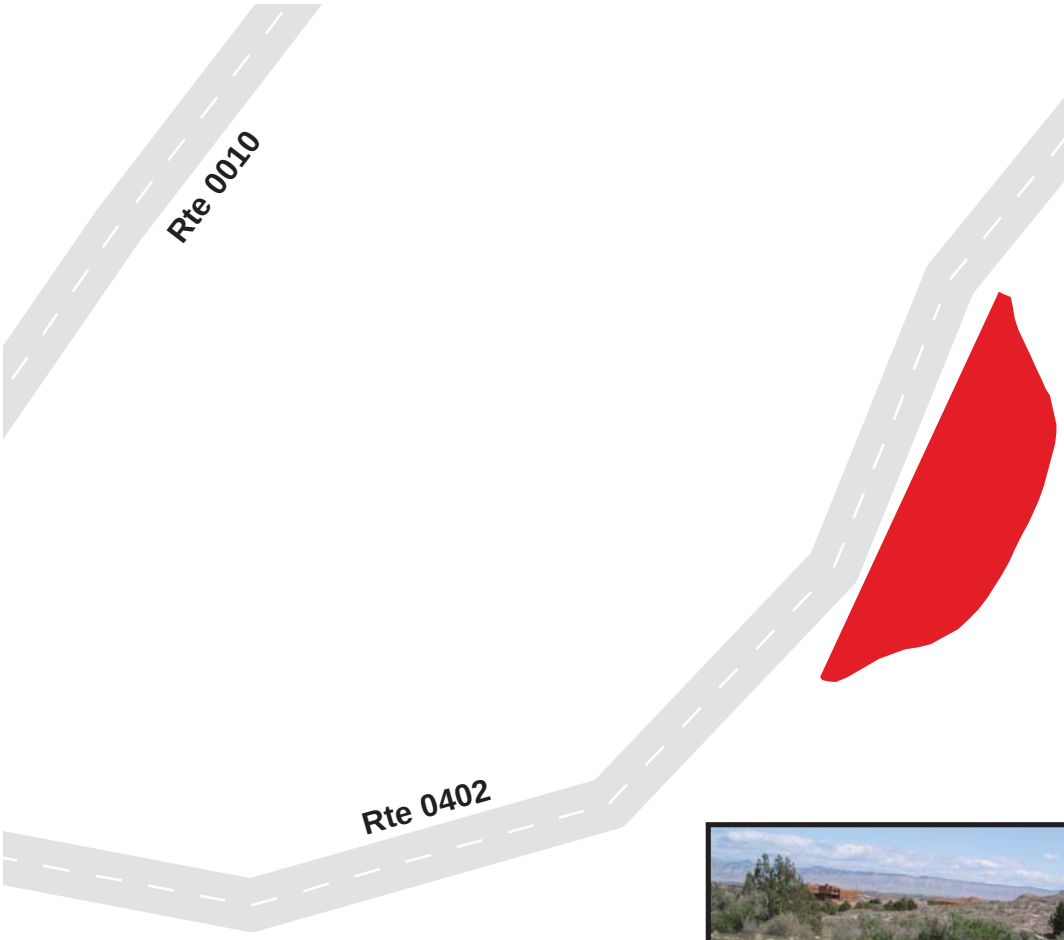
N

Colorado National Monument
Route 0925B

East Entrance Residence/Maintenance Parking B
Adjacent To Route 0402 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925B	NonPublic	12/12/1999	3766	0.06	OC	FAIR / 73

* Lane miles are based on 11' lane widths



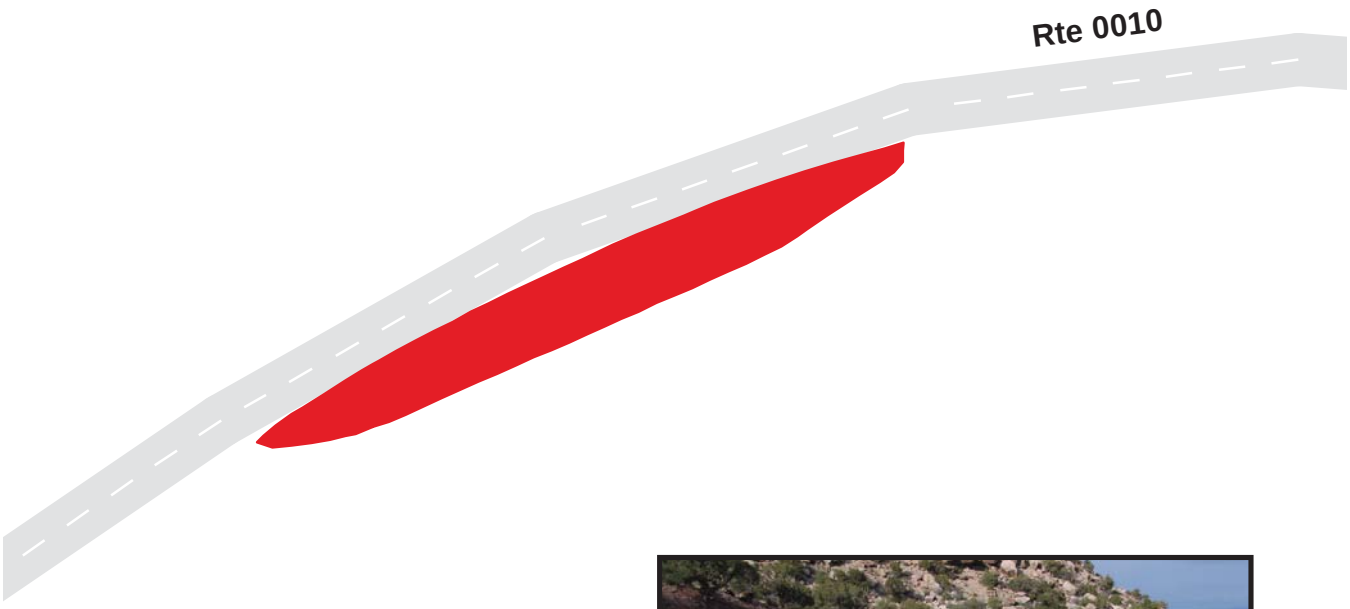
50 25 0 50
Feet

N

Colorado National Monument
Route 0926
Coke Ovens Trailhead Parking
Adjacent To Route 0010 at MP 8.1

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0926	Public	12/11/1999	3532	0.06	OC	FAIR / 73

* Lane miles are based on 11' lane widths



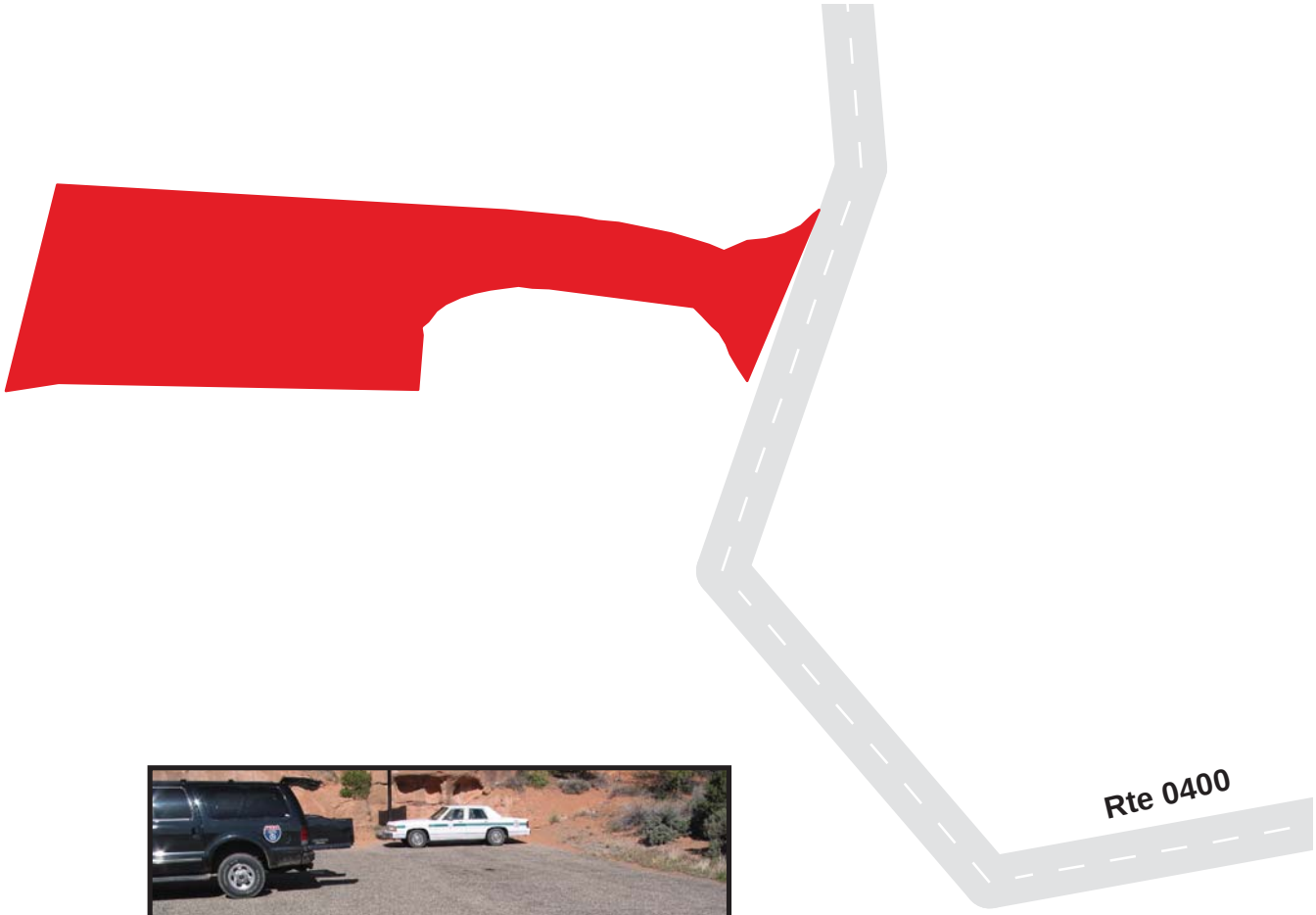
50 25 0 50
Feet

N

Colorado National Monument
Route 0927
Residence Parking Area
Adjacent To Route 0400

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0927	NonPublic	4/24/2003	5500	0.09	OC	FAIR / 73

* Lane miles are based on 11' lane widths



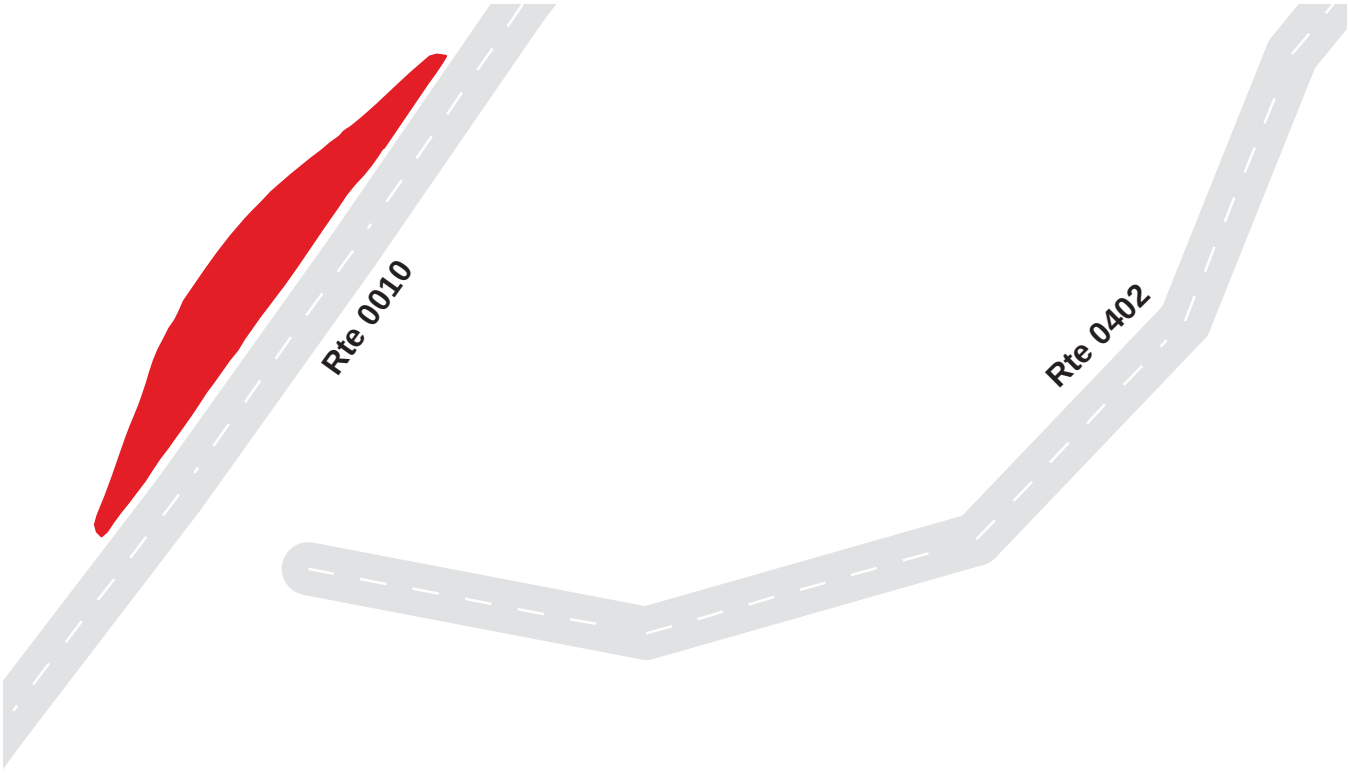
50 25 0 50
Feet

N

Colorado National Monument
Route 0928
East Entrance Kiosk Parking
Adjacent To Route 0010 at MP 19.26

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0928	Public	12/12/1999	3279	0.06	OC	GOOD / 90

* Lane miles are based on 11' lane widths



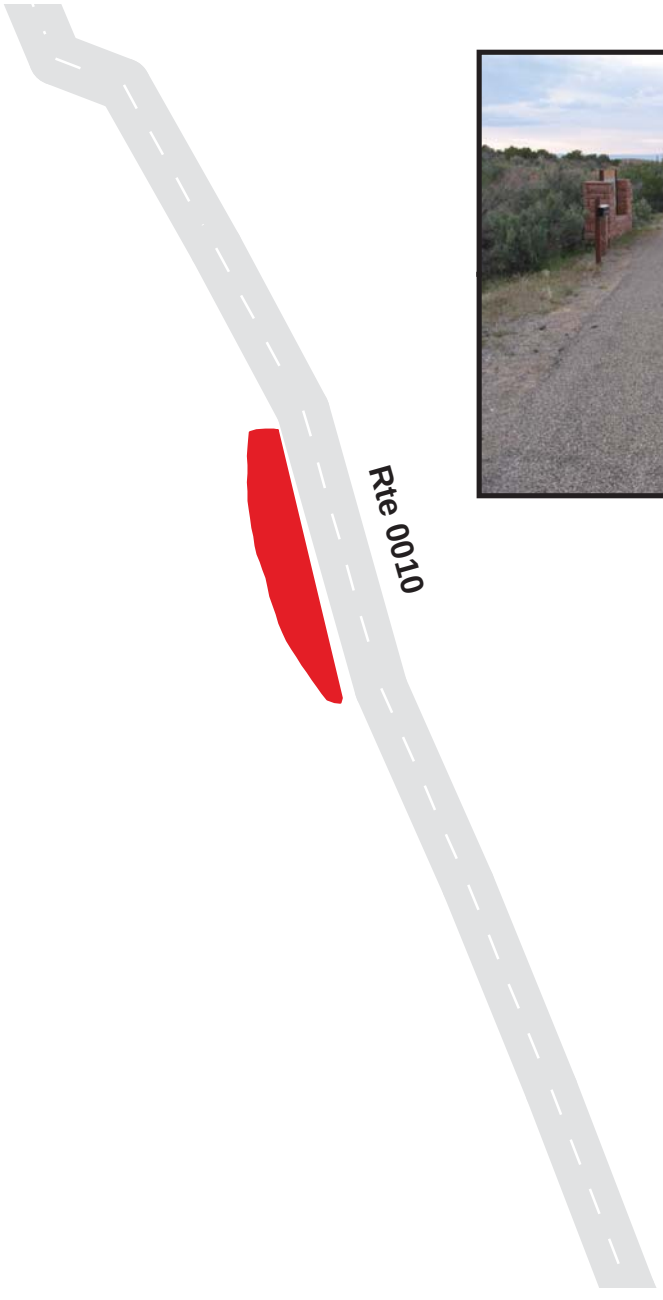
50 25 0 50 100 Feet

N

Colorado National Monument
Route 0929
West Entrance Kiosk Parking
Adjacent To Route 0010 at MP 0.2

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929	Public	12/12/1999	2753	0.05	OC	GOOD / 90

* Lane miles are based on 11' lane widths



50 25 0 50 100 150
Feet

N

Colorado National Monument
Route 0930
Monument Canyon View
Adjacent To Route 0010 at MP 7.2

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0930	Public	12/12/1999	3041	0.05	OC	FAIR / 73

* Lane miles are based on 11' lane widths

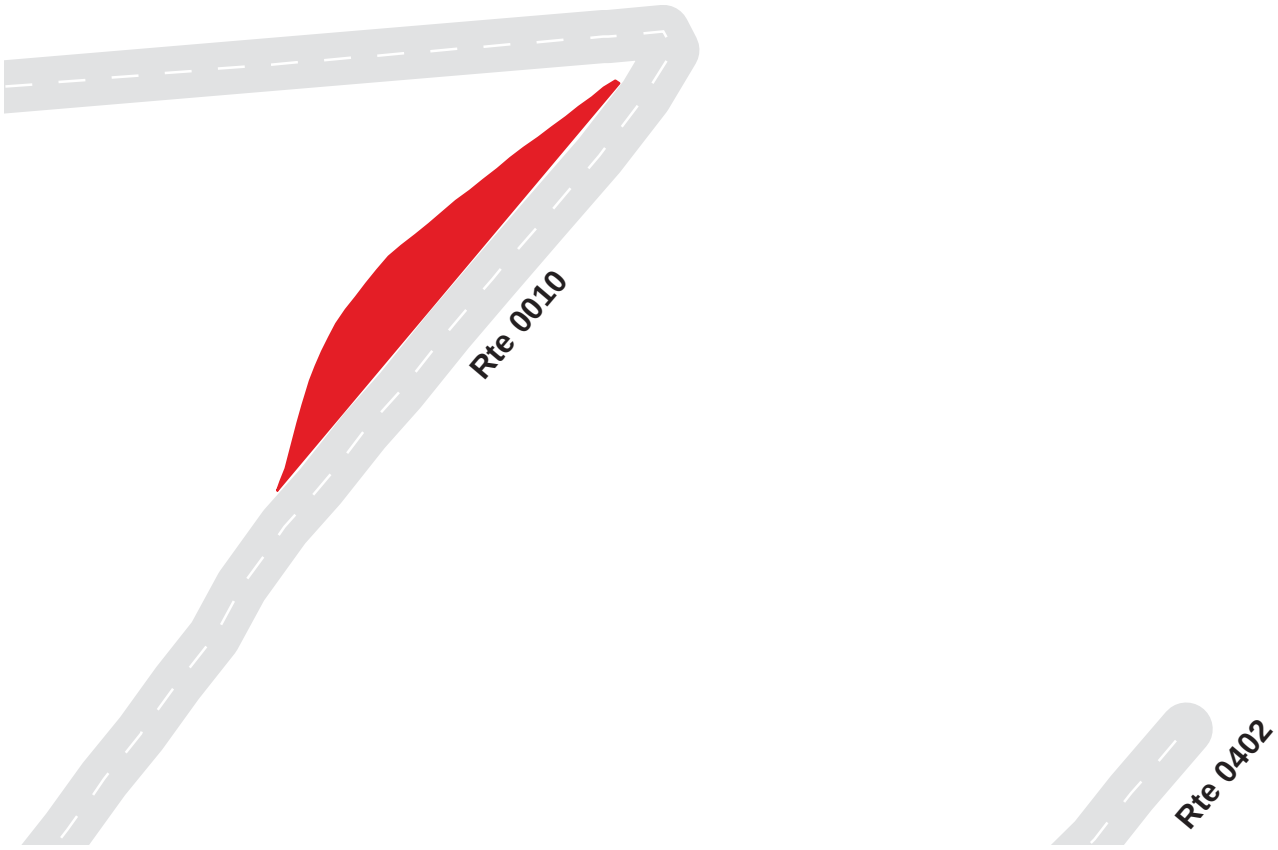
50 25 0 50
Feet

N

Colorado National Monument
Route 0933
East Entrance Sign Parking
Adjacent To End of Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0933	Public	4/24/2003	1535	0.03	OC	GOOD / 90

* Lane miles are based on 11' lane widths



COLM: PARKWIDE MAINTENANCE FEATURES SUMMARY

FEATURE	PARK TOTAL	UNIT
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	233	EACH
CURB	6,335	LINEAR FEET
DROP INLET	10	EACH
GUARD WALL	5,174	LINEAR FEET
GUARDRAIL	2,101	LINEAR FEET
INTERSECTION	85	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	2	EACH
PAVED DITCH	11,722	LINEAR FEET
PULLOUT	1	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	2	EACH
TUNNEL	3	EACH
TURNOUT	0	LINEAR FEET

COLM: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 RIMROCK DRIVE	ROUTE 0011 GLADE PARK ROAD	ROUTE 0200 SADDLEHORN AMPHITHEATER/CAMPGROUND ROAD	ROUTE 0201A SADDLEHORN CAMPGROUND LOOP A	ROUTE 0201B SADDLEHORN CAMPGROUND LOOP B	ROUTE 0201C SADDLEHORN CAMPGROUND LOOP C	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	213	3	8	2	2	1	EACH
CURB	5,332	375	628	0	0	0	LINEAR FEET
DROP INLET	10	0	0	0	0	0	EACH
GUARD WALL	5,174	0	0	0	0	0	LINEAR FEET
GUARDRAIL	2,101	0	0	0	0	0	LINEAR FEET
INTERSECTION	43	3	15	4	5	5	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	1	1	0	0	0	0	EACH
PAVED DITCH	11,722	0	0	0	0	0	LINEAR FEET
PULLOUT	1	0	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	2	0	0	0	0	0	EACH
TUNNEL	3	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

COLM: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0202 DEVILS KITCHEN PICNIC AREA RD	ROUTE 0400 MAINTENANCE/RESIDENCE AREA ROAD	ROUTE 0402 EAST SHOP ROAD	UNIT
BRIDGE	0	0	0	EACH
CATTLE GUARD	0	0	0	EACH
CULVERT	2	2	0	EACH
CURB	0	0	0	LINEAR FEET
DROP INLET	0	0	0	EACH
GUARD WALL	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	LINEAR FEET
INTERSECTION	4	3	3	EACH
LOW WATER CROSSING	0	0	0	EACH
OVERHEAD SIGN	0	0	0	EACH
PARK BOUNDARY	0	0	0	EACH
PAVED DITCH	0	0	0	LINEAR FEET
PULLOUT	0	0	0	EACH
RAILROAD CROSSING	0	0	0	EACH
RETAINING WALL	0	0	0	EACH
STATE BOUNDARY	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	EACH
TUNNEL	0	0	0	EACH
TURNOUT	0	0	0	LINEAR FEET

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT WEST ENTRANCE
0.114	0.123	CURB	LEFT	
0.120	0.120	TRAFFIC LIGHT	RIGHT	
0.160	0.160	INTERSECTION	RIGHT	ROUTE 929
0.182	0.182	INTERSECTION	RIGHT	
0.261	0.278	CURB	LEFT	
0.376	0.535	PAVED DITCH	RIGHT	
0.419	0.419	CULVERT	N/A	
0.536	0.536	CULVERT	N/A	
0.537	0.621	CURB	LEFT	
0.576	0.576	DROP INLET	LEFT	
0.586	0.586	CULVERT	N/A	
0.622	0.622	CULVERT	N/A	
0.626	0.695	PAVED DITCH	RIGHT	
0.652	0.652	CULVERT	N/A	
0.697	0.787	CURB	RIGHT	
0.807	0.826	GUARD WALL	RIGHT	
0.859	0.859	DROP INLET	RIGHT	
0.860	0.933	CURB	RIGHT	
0.884	1.195	PAVED DITCH	LEFT	
0.912	0.912	CULVERT	N/A	
0.979	1.002	CURB	RIGHT	
0.988	0.988	INTERSECTION	RIGHT	RTE 0924
1.010	1.010	CULVERT	N/A	
1.054	1.076	GUARD WALL	RIGHT	
1.114	1.132	GUARD WALL	RIGHT	
1.122	1.122	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.136	1.279	PAVED DITCH	RIGHT	
1.198	1.198	CULVERT	N/A	
1.342	1.342	CULVERT	N/A	
1.344	1.385	PAVED DITCH	LEFT	
1.396	1.454	CURB	RIGHT	
1.398	1.398	DROP INLET	RIGHT	
1.430	1.560	PAVED DITCH	LEFT	
1.440	1.440	CULVERT	N/A	
1.450	1.552	PAVED DITCH	RIGHT	
1.566	1.566	CULVERT	N/A	
1.593	1.732	PAVED DITCH	LEFT	
1.679	1.679	CULVERT	N/A	
1.703	1.750	CURB	RIGHT	
1.743	1.743	INTERSECTION	LEFT	RTE 0923
1.751	1.751	CULVERT	N/A	
1.753	1.808	PAVED DITCH	RIGHT	
1.817	1.817	CULVERT	N/A	
1.918	1.918	CULVERT	N/A	
1.960	2.071	PAVED DITCH	LEFT	
2.019	2.067	PAVED DITCH	RIGHT	
2.060	2.060	CULVERT	N/A	
2.071	2.071	DROP INLET	RIGHT	
2.116	2.159	TUNNEL	N/A	
2.187	2.258	CURB	RIGHT	
2.198	2.234	PAVED DITCH	LEFT	
2.277	2.312	TUNNEL	N/A	
2.318	2.318	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.336	2.336	CULVERT	N/A	
2.372	2.668	PAVED DITCH	LEFT	
2.426	2.426	CULVERT	N/A	
2.474	2.491	CURB	RIGHT	
2.478	2.478	INTERSECTION	RIGHT	RTE 0922
2.492	2.492	CULVERT	N/A	
2.514	2.527	GUARD WALL	RIGHT	
2.526	2.676	PAVED DITCH	RIGHT	
2.528	2.528	CULVERT	N/A	
2.679	2.679	CULVERT	N/A	
2.682	2.799	CURB	RIGHT	
2.890	2.890	CULVERT	N/A	
2.903	2.927	GUARD WALL	RIGHT	
2.928	3.026	PAVED DITCH	RIGHT	
2.931	2.931	CULVERT	N/A	
3.052	3.052	CULVERT	N/A	
3.090	3.104	GUARD WALL	LEFT	
3.093	3.133	PAVED DITCH	RIGHT	
3.098	3.098	CULVERT	N/A	
3.129	3.129	DROP INLET	RIGHT	
3.131	3.131	CULVERT	N/A	
3.147	3.220	PAVED DITCH	LEFT	
3.214	3.214	CULVERT	N/A	
3.305	3.400	PAVED DITCH	RIGHT	
3.341	3.392	PAVED DITCH	LEFT	
3.441	3.441	INTERSECTION	LEFT	RTE 0921
3.592	3.612	GUARD WALL	LEFT	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.701	3.723	GUARD WALL	LEFT	
3.714	3.714	CULVERT	N/A	
3.761	3.805	GUARD WALL	LEFT	
3.840	3.840	INTERSECTION	RIGHT	
3.861	3.861	CULVERT	N/A	
3.874	3.874	INTERSECTION	LEFT	RTE 0920
3.887	3.899	CURB	LEFT	
3.949	4.003	GUARD WALL	LEFT	
3.981	3.981	CULVERT	N/A	
4.112	4.112	CULVERT	N/A	
4.156	4.170	PAVED DITCH	RIGHT	
4.175	4.175	INTERSECTION	RIGHT	RTE 0400
4.277	4.277	INTERSECTION	LEFT	RTE 0200
4.293	4.293	INTERSECTION	LEFT	RTE 0900
4.353	4.353	INTERSECTION	RIGHT	
4.376	4.376	INTERSECTION	LEFT	RTE 0900
4.465	4.465	CULVERT	N/A	
4.471	4.493	PULLOUT	RIGHT	
4.559	4.559	CULVERT	N/A	
4.648	4.648	CULVERT	N/A	
4.842	4.842	CULVERT	N/A	
4.945	4.996	GUARD WALL	LEFT	
4.968	4.968	CULVERT	N/A	
5.016	5.065	GUARD WALL	LEFT	
5.097	5.097	CULVERT	N/A	
5.292	5.325	CURB	LEFT	
5.306	5.306	INTERSECTION	LEFT	RTE 0903

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
5.418	5.418	CULVERT	N/A	
5.465	5.465	INTERSECTION	LEFT	RTE 0907
5.473	5.497	CURB	LEFT	
5.503	5.503	INTERSECTION	LEFT	RTE 0907
5.582	5.582	CULVERT	N/A	
5.617	5.617	CULVERT	N/A	
5.761	5.761	CULVERT	N/A	
5.850	5.850	CULVERT	N/A	
5.934	5.934	CULVERT	N/A	
6.014	6.014	CULVERT	N/A	
6.048	6.048	INTERSECTION	LEFT	RTE 0908
6.071	6.130	PAVED DITCH	RIGHT	
6.106	6.229	GUARD WALL	LEFT	
6.128	6.128	CULVERT	N/A	
6.223	6.223	CULVERT	N/A	
6.282	6.282	CULVERT	N/A	
6.412	6.412	CULVERT	N/A	
6.466	6.511	GUARD WALL	LEFT	
6.555	6.582	GUARD WALL	LEFT	
6.586	6.586	CULVERT	N/A	
6.614	6.782	GUARD WALL	LEFT	
6.629	6.629	CULVERT	N/A	
6.703	6.703	DROP INLET	RIGHT	
6.817	6.817	CULVERT	N/A	
6.880	6.880	CULVERT	N/A	
6.889	6.917	GUARD WALL	LEFT	
6.957	6.957	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
7.036	7.036	CULVERT	N/A	
7.115	7.115	CULVERT	N/A	
7.207	7.207	INTERSECTION	LEFT	RTE 0930
7.331	7.331	CULVERT	N/A	
7.331	7.331	DROP INLET	RIGHT	
7.415	7.415	CULVERT	N/A	
7.458	7.458	CULVERT	N/A	
7.515	7.515	CULVERT	N/A	
7.772	7.772	CULVERT	N/A	
7.834	7.834	CULVERT	N/A	
7.887	7.887	CULVERT	N/A	
7.936	7.936	INTERSECTION	LEFT	RTE 0909
8.004	8.004	CULVERT	N/A	
8.098	8.098	CULVERT	N/A	
8.111	8.111	CULVERT	N/A	
8.140	8.140	INTERSECTION	LEFT	RTE 0926
8.176	8.176	CULVERT	N/A	
8.264	8.264	CULVERT	N/A	
8.394	8.394	CULVERT	N/A	
8.439	8.439	CULVERT	N/A	
8.484	8.484	CULVERT	N/A	
8.528	8.528	CULVERT	N/A	
8.578	8.692	GUARD WALL	LEFT	
8.665	8.665	INTERSECTION	LEFT	RTE 0919
8.740	8.740	CULVERT	N/A	
8.831	8.831	CULVERT	N/A	
8.847	8.888	GUARDRAIL	LEFT	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
8.944	8.944	CULVERT	N/A	
9.050	9.050	CULVERT	N/A	
9.104	9.104	CULVERT	N/A	
9.249	9.249	CULVERT	N/A	
9.348	9.348	CULVERT	N/A	
9.415	9.415	CULVERT	N/A	
9.477	9.477	CULVERT	N/A	
9.529	9.529	CULVERT	N/A	
9.570	9.570	CULVERT	N/A	
9.681	9.681	CULVERT	N/A	
9.786	9.786	CULVERT	N/A	
9.807	9.807	CULVERT	N/A	
9.894	9.915	CURB	LEFT	
9.895	9.895	INTERSECTION	LEFT	RTE 0910
9.920	9.920	INTERSECTION	LEFT	RTE 0910
9.972	9.972	CULVERT	N/A	
10.051	10.051	CULVERT	N/A	
10.151	10.151	CULVERT	N/A	
10.256	10.256	CULVERT	N/A	
10.348	10.348	CULVERT	N/A	
10.361	10.361	CULVERT	N/A	
10.420	10.420	INTERSECTION	RIGHT	
10.604	10.604	CULVERT	N/A	
10.680	10.680	INTERSECTION	LEFT	RTE 0932
10.775	10.775	CULVERT	N/A	
10.883	10.883	CULVERT	N/A	
10.910	10.910	INTERSECTION	RIGHT	RTE 0100

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
10.927	10.927	CULVERT	N/A	
11.019	11.019	CULVERT	N/A	
11.125	11.125	CULVERT	N/A	
11.296	11.296	CULVERT	N/A	
11.359	11.359	CULVERT	N/A	
11.513	11.513	CULVERT	N/A	
11.585	11.585	CULVERT	N/A	
11.645	11.645	CULVERT	N/A	
11.804	11.804	CULVERT	N/A	
11.962	11.962	CULVERT	N/A	
12.077	12.077	CULVERT	N/A	
12.160	12.160	CULVERT	N/A	
12.333	12.333	CULVERT	N/A	
12.446	12.446	CULVERT	N/A	
12.521	12.535	GUARD WALL	LEFT	
12.557	12.575	GUARD WALL	LEFT	
12.760	12.760	CULVERT	N/A	
12.803	12.803	CULVERT	N/A	
12.933	12.933	CULVERT	N/A	
12.982	12.982	CULVERT	N/A	
13.021	13.041	CURB	LEFT	
13.023	13.023	INTERSECTION	LEFT	RTE 0911
13.049	13.049	CULVERT	N/A	
13.126	13.126	CULVERT	N/A	
13.183	13.183	CULVERT	N/A	
13.263	13.263	CULVERT	N/A	
13.296	13.296	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
13.314	13.343	CURB	LEFT	
13.322	13.322	INTERSECTION	LEFT	RTE 0912
13.368	13.368	CULVERT	N/A	
13.464	13.464	CULVERT	N/A	
13.532	13.532	CULVERT	N/A	
13.533	13.533	CULVERT	N/A	
13.567	13.567	INTERSECTION	LEFT	RTE 0931
13.589	13.589	CULVERT	N/A	
13.612	13.612	CULVERT	N/A	
13.634	13.634	CULVERT	N/A	
13.730	13.730	CULVERT	N/A	
13.766	13.766	CULVERT	N/A	
13.832	13.832	CULVERT	N/A	
13.872	13.872	CULVERT	N/A	
13.934	13.934	CULVERT	N/A	
14.048	14.048	CULVERT	N/A	
14.142	14.142	CULVERT	N/A	
14.242	14.242	CULVERT	N/A	
14.280	14.280	CULVERT	N/A	
14.350	14.350	CULVERT	N/A	
14.393	14.393	CULVERT	N/A	
14.497	14.497	CULVERT	N/A	
14.534	14.534	CULVERT	N/A	
14.624	14.624	CULVERT	N/A	
14.719	14.719	CULVERT	N/A	
14.758	14.758	CULVERT	N/A	
14.790	14.790	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.957	14.957	CULVERT	N/A	
15.003	15.003	CULVERT	N/A	
15.054	15.054	CULVERT	N/A	
15.139	15.139	CULVERT	N/A	
15.195	15.195	CULVERT	N/A	
15.290	15.290	CULVERT	N/A	
15.377	15.377	CULVERT	N/A	
15.446	15.446	CULVERT	N/A	
15.471	15.509	CURB	LEFT	
15.497	15.497	INTERSECTION	LEFT	RTE 0913
15.527	15.527	CULVERT	N/A	
15.536	15.536	CULVERT	N/A	
15.629	15.629	CULVERT	N/A	
15.660	15.660	CULVERT	N/A	
15.705	15.705	CULVERT	N/A	
15.844	15.844	CULVERT	N/A	
15.935	15.935	CULVERT	N/A	
16.044	16.044	CULVERT	N/A	
16.083	16.083	INTERSECTION	LEFT	RTE 0914
16.089	16.109	CURB	LEFT	
16.118	16.118	INTERSECTION	LEFT	RTE 0914
16.141	16.141	CULVERT	N/A	
16.258	16.258	CULVERT	N/A	
16.349	16.349	CULVERT	N/A	
16.488	16.488	CULVERT	N/A	
16.604	16.604	CULVERT	N/A	
16.631	16.631	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
16.741	16.741	CULVERT	N/A	
16.781	16.781	CULVERT	N/A	
16.839	16.839	CULVERT	N/A	
16.884	16.884	CULVERT	N/A	
16.922	16.922	CULVERT	N/A	
17.188	17.188	CULVERT	N/A	
17.339	17.339	CULVERT	N/A	
17.560	17.560	CULVERT	N/A	
17.654	17.654	CULVERT	N/A	
17.751	17.751	CULVERT	N/A	
17.898	17.898	CULVERT	N/A	
17.952	17.952	CULVERT	N/A	
18.103	18.103	CULVERT	N/A	
18.132	18.132	CULVERT	N/A	
18.265	18.265	CULVERT	N/A	
18.337	18.337	CULVERT	N/A	
18.394	18.394	CULVERT	N/A	
18.455	18.455	CULVERT	N/A	
18.555	18.632	GUARDRAIL	LEFT	
18.556	18.556	CULVERT	N/A	
18.571	18.571	CULVERT	N/A	
18.576	18.576	INTERSECTION	RIGHT	RTE 0011
18.594	18.594	INTERSECTION	RIGHT	RTE 0011
18.651	18.651	CULVERT	N/A	
18.702	18.702	CULVERT	N/A	
18.750	18.750	DROP INLET	RIGHT	
18.861	18.861	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
18.912	18.912	INTERSECTION	LEFT	RTE 0915
18.913	18.934	CURB	LEFT	
18.946	18.946	INTERSECTION	LEFT	RTE 0915
19.191	19.191	CULVERT	N/A	
19.281	19.281	CULVERT	N/A	
19.335	19.428	GUARD WALL	RIGHT	
19.341	19.341	DROP INLET	RIGHT	
19.465	19.465	CULVERT	N/A	
19.785	19.785	INTERSECTION	RIGHT	RTE 0916
19.802	19.833	GUARDRAIL	RIGHT	
19.936	20.029	TUNNEL	N/A	
20.048	20.048	CULVERT	N/A	
20.229	20.297	GUARDRAIL	RIGHT	
20.304	20.332	CURB	RIGHT	
20.445	20.518	CURB	LEFT	
20.476	20.476	CULVERT	N/A	
20.573	20.573	CULVERT	N/A	
20.630	20.630	CULVERT	N/A	
20.733	20.733	CULVERT	N/A	
20.803	20.803	CULVERT	N/A	
20.831	20.831	CULVERT	N/A	
20.868	20.919	GUARDRAIL	RIGHT	
20.919	20.919	CULVERT	N/A	
21.110	21.137	CURB	RIGHT	
21.126	21.126	CULVERT	N/A	
21.137	21.137	DROP INLET	RIGHT	
21.156	21.156	CULVERT	N/A	

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : RIMROCK DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
21.214	21.214	CULVERT	N/A	
21.278	21.338	GUARDRAIL	RIGHT	
21.307	21.307	CULVERT	N/A	
21.331	21.331	CULVERT	N/A	
21.379	21.379	CULVERT	N/A	
21.406	21.416	CURB	RIGHT	
21.414	21.414	CULVERT	N/A	
21.471	21.471	CULVERT	N/A	
21.477	21.484	CURB	RIGHT	
21.534	21.604	GUARDRAIL	RIGHT	
21.601	21.601	CULVERT	N/A	
21.653	21.653	CULVERT	N/A	
21.699	21.699	CULVERT	N/A	
21.872	21.872	CULVERT	N/A	
21.951	21.951	CULVERT	N/A	
22.082	22.082	INTERSECTION	RIGHT	RTE 0917
22.086	22.119	CURB	RIGHT	
22.124	22.124	INTERSECTION	RIGHT	RTE 0917
22.129	22.129	INTERSECTION	LEFT	RTE 0202
22.151	22.151	CULVERT	N/A	
22.292	22.292	INTERSECTION	RIGHT	RTE 0402
22.297	22.297	INTERSECTION	LEFT	RTE 0928
22.326	22.334	CURB	LEFT	
22.336	22.336	TRAFFIC LIGHT	RIGHT	
22.380	22.380	INTERSECTION	LEFT	RTE 0933
22.402	22.402	PARK BOUNDARY	N/A	
22.410	22.410			ROUTE ENDS AT EAST ENTRANCE

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : GLADE PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 AT MP 188
0.001	0.001	INTERSECTION	RIGHT	ROUTE 0010
0.001	0.001	INTERSECTION	LEFT	ROUTE 0010
0.019	0.019	INTERSECTION	RIGHT	ROUTE 011
0.061	0.132	CURB	RIGHT	
0.190	0.190	CULVERT	N/A	
0.630	0.630	CULVERT	N/A	
0.710	0.710	PARK BOUNDARY	N/A	
0.713	0.713	CULVERT	N/A	
0.720	0.720			ROUTE ENDS AT PARK BOUNDARY

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : SADDLEHORN AMPHITHEATER/CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 AT MP 43
0.008	0.008	INTERSECTION	RIGHT	FROM ROUTE 0010
0.013	0.013	INTERSECTION	RIGHT	RTE 0901
0.021	0.021	INTERSECTION	RIGHT	RTE 0403
0.024	0.040	CURB	RIGHT	
0.044	0.044	INTERSECTION	RIGHT	RTE 0403
0.044	0.092	CURB	RIGHT	
0.045	0.045	INTERSECTION	RIGHT	RTE 0200, END OF LOOP
0.234	0.234	CULVERT	N/A	
0.236	0.236	INTERSECTION	LEFT	RTE 0201A
0.321	0.321	CULVERT	N/A	
0.327	0.327	INTERSECTION	RIGHT	RTE 0201C
0.354	0.354	INTERSECTION	RIGHT	RTE 0201C SPUR
0.425	0.425	INTERSECTION	RIGHT	RTE 0201C SPUR
0.470	0.470	INTERSECTION	LEFT	RTE 0904
0.515	0.515	CULVERT	N/A	
0.545	0.545	INTERSECTION	LEFT	RTE 0906
0.627	0.627	CULVERT	N/A	
0.669	0.669	INTERSECTION	RIGHT	RTE 0201C
0.690	0.690	CULVERT	N/A	
0.730	0.730	CULVERT	N/A	
0.737	0.737	INTERSECTION	RIGHT	RTE 0902
0.892	0.892	CULVERT	N/A	
0.909	0.927	CURB	LEFT	
0.913	0.936	CURB	RIGHT	
0.921	0.921	CULVERT	N/A	
0.938	0.938	INTERSECTION	LEFT	ROUTE 403

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : SADDLEHORN AMPHITHEATER/CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.941	0.955	CURB	LEFT	
0.944	0.944	INTERSECTION	RIGHT	END AT ROUTE 0200, END OF LOOP
0.950	0.950			ROUTE ENDS AT INTERSECTION WITH ROUTE 0200

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201A : SADDLEHORN CAMPGROUND LOOP A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0200
0.003	0.003	INTERSECTION	LEFT	ROUTE 200
0.021	0.021	INTERSECTION	LEFT	RTE 0201A, END OF LOOP
0.077	0.077	CULVERT	N/A	
0.088	0.088	CULVERT	N/A	
0.181	0.181	INTERSECTION	RIGHT	RTE 0201B
0.219	0.219	INTERSECTION	LEFT	END AT RTE 0201A, END OF LOOP
0.220	0.220			ROUTE ENDS AT END OF LOOP

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201B : SADDLEHORN CAMPGROUND LOOP B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0201A
0.007	0.007	INTERSECTION	RIGHT	FROM ROUTE 0201A
0.008	0.008	INTERSECTION	LEFT	FROM ROUTE 0201A
0.031	0.031	INTERSECTION	LEFT	RTE 0201B, END OF LOOP
0.069	0.069	INTERSECTION	RIGHT	
0.159	0.159	CULVERT	N/A	
0.218	0.218	CULVERT	N/A	
0.307	0.307	INTERSECTION	LEFT	TO ROUTE 0201B, END OF LOOP
0.310	0.310			ROUTE ENDS AT ROUTE 0201A

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201C : SADDLEHORN CAMPGROUND LOOP C

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0200
0.005	0.005	INTERSECTION	LEFT	ROUTE 0200
0.061	0.061	INTERSECTION	LEFT	RTE 0201C SPUR
0.117	0.117	INTERSECTION	LEFT	RTE 0201C SPUR
0.158	0.158	CULVERT	N/A	
0.258	0.258	INTERSECTION	LEFT	ROUTE 0200
0.260	0.260			ROUTE ENDS AT ROUTE 0200
0.261	0.261	INTERSECTION	RIGHT	TO ROUTE 0200

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202 : DEVILS KITCHEN PICNIC AREA RD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 AT MP 224
0.003	0.003	CULVERT	N/A	
0.008	0.008	INTERSECTION	LEFT	FROM ROUTE 0100
0.008	0.008	INTERSECTION	RIGHT	FROM ROUTE 0100
0.040	0.040	CULVERT	N/A	
0.112	0.112	INTERSECTION	LEFT	TO ROUTE 0918
0.118	0.118	INTERSECTION	RIGHT	TO ROUTE 0918
0.120	0.120			ROUTE ENDS AT ROUTE 0918

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0400 : MAINTENANCE/RESIDENCE AREA ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 AT MP 42
0.002	0.002	INTERSECTION	RIGHT	FROM ROUTE 0010
0.006	0.006	CULVERT	N/A	
0.082	0.082	CULVERT	N/A	
0.149	0.149	INTERSECTION	LEFT	RTE 0905
0.180	0.180	INTERSECTION	LEFT	RTE 0927
0.330	0.330			ROUTE ENDS AT DEAD END

COLM: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0402 : EAST SHOP ROAD

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 AT MP 225
0.001	0.001	INTERSECTION	RIGHT	FROM ROUTE 0010
0.070	0.070	INTERSECTION	LEFT	RTE 0925A
0.076	0.076	INTERSECTION	RIGHT	RTE 0925B
0.110	0.110			ROUTE ENDS AT END OF PAVEMENT AT GATE

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
1378	Numeric Code for Colorado National Monument
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
COLM	Alpha Code for Colorado National Monument
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 ocurr 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 * $e^{(-0.0041 * \text{average IRI})}$]

These 0.02 Distress Rating Index values are then averaged over one mile sections for the mile-by-mile Disitress 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 the 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_CLASS	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	XXXXXXXX	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	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
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	XXXXXXXXXX	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	XXXXXXXX	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%
VISI_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
VISI_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
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	999.999999	Latitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_LON	-999.999999	Longitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_ELEV	99999.9	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	<*Park*>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_FLAG	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	XXXXXXXX	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%
VISI_FROM	999999 (millimiles)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
VISI_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 a e le e ada a

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 ection 10 of the PD report provided on your park D.

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: 1984

colm_pkg_03

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: colm_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: 12/11/1999
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -108.739317
East_Bounding_Coordinate: -108.630166
North_Bounding_Coordinate: 39.118293
South_Bounding_Coordinate: 39.030577
Keywords:
Theme:
Theme_Keyword_Thesaurus: COLM
Theme_Keyword: COLM
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: 33

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: colm_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: 20050512
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

Generated by mp version 2.7.33 on Thu May 12 17:31:49 2005

colm_pkg_03_map

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: colm_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: 9/11/1999
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -108.739317
East_Bounding_Coordinate: -108.630130
North_Bounding_Coordinate: 39.118231
South_Bounding_Coordinate: 39.030588
Keywords:
Theme:
Theme_Keyword_Thesaurus: COLM
Theme_Keyword: COLM
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: 33

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: colm_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: 20050512
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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colm_mrp_03

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: colm_mrp_03
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Manually Rated Roads - Polygons
Purpose: Road Inventory Program
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 12/11/1999
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -108.734246
East_Bounding_Coordinate: -108.733528
North_Bounding_Coordinate: 39.101933
South_Bounding_Coordinate: 39.100946
Keywords:
Theme:
Theme_Keyword_Thesaurus: COLM
Theme_Keyword: COLM
Access_Constraints: None
Use_Constraints: None
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 manually rated roads.
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: 1

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: colm_mrp_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: SECTION_
Attribute_Definition: Route section ID
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating
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: GPS_DATE_1
Attribute_Definition: Area of manually rated road in squre feet
Attribute:
Attribute_Label: SQ_FT

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.187

Metadata_Reference_Information:
Metadata_Date: 20050512
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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colm_mrp_03_map

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: colm_mrp_03_map
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Manually Rated Roads - Polygons
Purpose: Road Inventory Program
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 12/11/1999
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -108.734246
East_Bounding_Coordinate: -108.733528
North_Bounding_Coordinate: 39.101933
South_Bounding_Coordinate: 39.100946
Keywords:
Theme:
Theme_Keyword_Thesaurus: COLM
Theme_Keyword: COLM
Access_Constraints: None
Use_Constraints: None
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 manually rated roads.
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: 1

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: colm_mrp_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: SECTION_
Attribute_Definition: Route section ID
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating
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: GPS_DATE_1
Attribute_Definition: Area of manually rated road in squre feet
Attribute:
Attribute_Label: SQ_FT

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.187

Metadata_Reference_Information:
Metadata_Date: 20050512
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

Generated by mp version 2.7.33 on Thu May 12 17:31:23 2005

colm_mi_pt

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: colm_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: -108.740639
East_Bounding_Coordinate: -108.631214
North_Bounding_Coordinate: 39.120193
South_Bounding_Coordinate: 39.024776
Keywords:
Theme:
Theme_Keyword_Thesaurus: COLM
Theme_Keyword: COLM
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: 31

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: colm_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 shouler 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: Rigth 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_FLA
Attribute_Definition: Flag indicating presence of bridge in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: CONSTR_FLA
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: 20050512
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

Generated by mp version 2.7.33 on Thu May 12 17:33:26 2005

colm_mi

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: colm_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: -108.741440
East_Bounding_Coordinate: -108.630035
North_Bounding_Coordinate: 39.120193
South_Bounding_Coordinate: 39.019279
Keywords:
Theme:
Theme_Keyword_Thesaurus: COLM
Theme_Keyword: COLM

Access_Constraints: None
Use_Constraints: Redistribution meeds 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: 28

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: colm_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: LENGTH
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: ID
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RT_LENGTH
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: PCRMI
Attribute_Definition: Numeric PCR definition
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 100
Attribute:
Attribute_Label: PCR_RATEMI
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: TSR_EDITS
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.

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050512
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

Generated by mp version 2.7.33 on Thu May 12 17:32:34 2005

colm_seg

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: colm_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: -108.741432
East_Bounding_Coordinate: -108.630035
North_Bounding_Coordinate: 39.120193
South_Bounding_Coordinate: 39.019279
Keywords:
Theme:
Theme_Keyword_Thesaurus: COLM
Theme_Keyword: COLM

Access_Constraints: None
Use_Constraints: Redistribution meeds 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: 150

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: colm_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: LENGTH
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: ID
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RT_LENGTH
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: PCR_RATEAV
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: PCRAV
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: TSR_EDIT
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.

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050512
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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