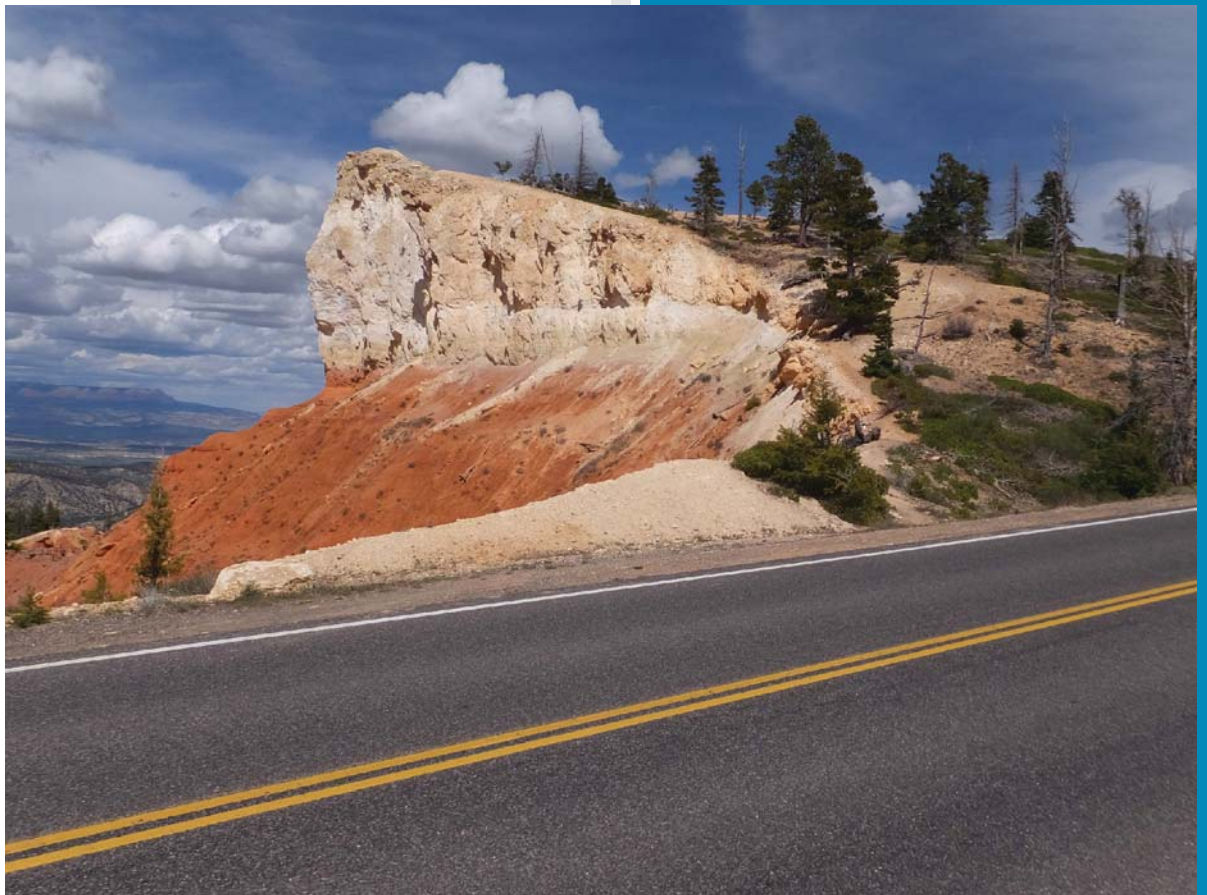


BRCA Cycle 6

Final Report

Road Inventory and Condition Assessment of Paved Routes Bryce Canyon National Park



**Federal Lands Highway
Road Inventory Program**

Prepared By:

Federal Highway Administration
Eastern Federal Lands Highway Division
Road Inventory Program (RIP)

Report Date: May 2017

Bryce Canyon National Park in Utah

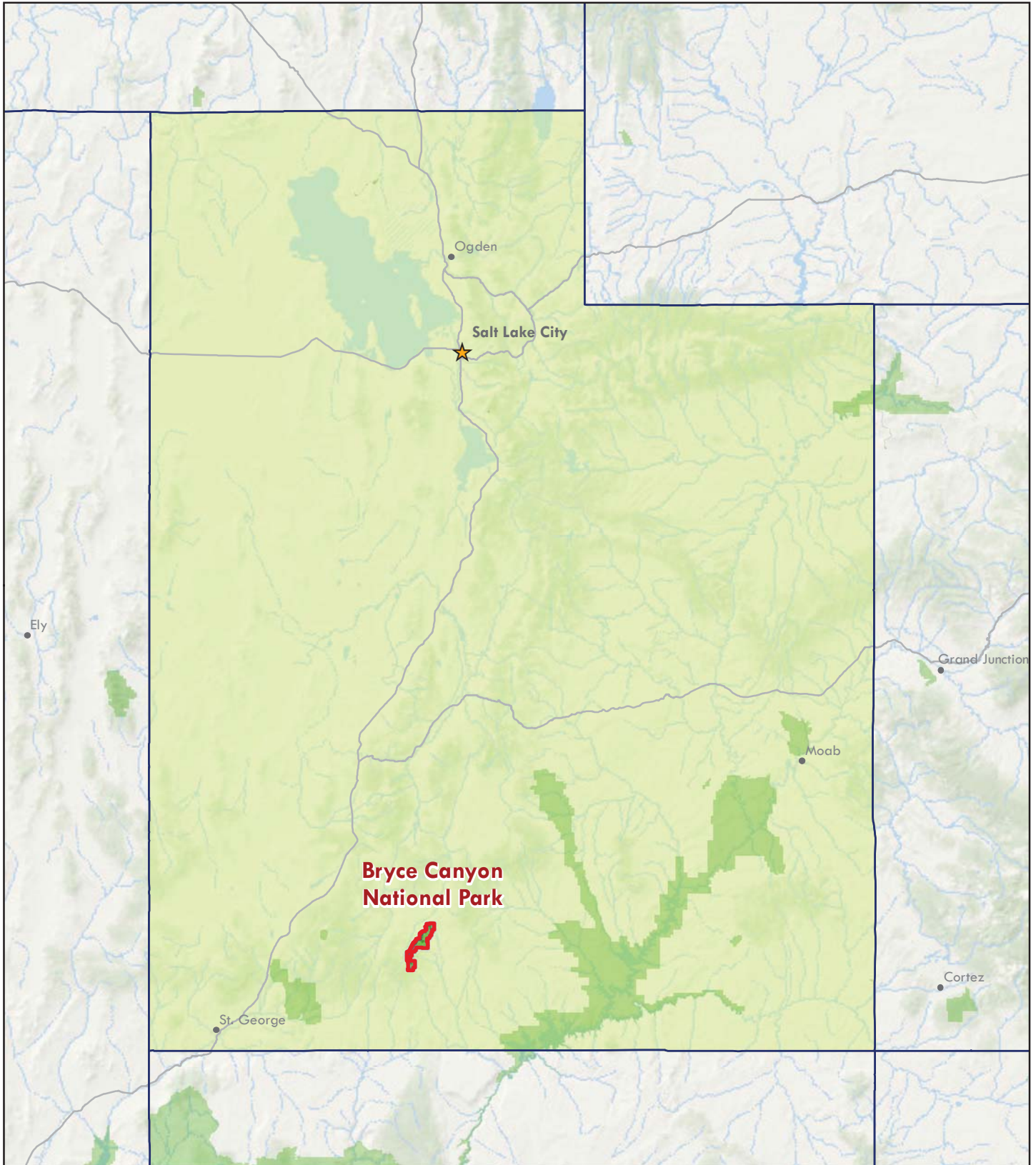


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Section 1 Introduction



Bryce Canyon National Park



**Federal Lands Highway
Road Inventory Program**

Introduction

The Federal Highway Administration’s (FHWA), Road Inventory Program (RIP) inventories all roads and parking areas in the National Park System, and performs condition inspections on all paved roads and parking areas for the National Park Service (NPS). This report contains the results of the Cycle 6 condition assessment of paved roads and parking lots for this park unit. This assessment was done using an automated, state-of-the-art pavement inspection vehicle as well as manual ratings. This information represents the condition of the paved assets at the time of the inspection. The pavement management system utilized by FHWA and the NPS uses these assessments to estimate future conditions and help prioritize pavement maintenance and rehabilitation projects. Further information about RIP data and its role in managing paved roads and bridges can be obtained by contacting the NPS Regional Transportation Program Manager.

A History of the Road Inventory Program:

The FHWA, in the mid-1970s, was charged with the task of identifying surface condition deficiencies and corrective priorities on NPS roads and parkways. Additionally, FHWA was tasked with establishing an integrated maintenance features inventory, locating features such as culverts, guardrails, and signs, among others, along NPS roads and parkways. As a result, in 1976 the NPS and FHWA entered into a Memorandum of Agreement (MOA) which established the RIP. This MOA was revised in 1980 to update RIP data collection standards and develop a long-range program to improve and maintain NPS roads to designated condition standards and establish a pavement management program.

The FHWA completed the initial phase of inventory in the early 1980s. As a result of this effort, each NPS unit included in the collection received a RIP Report known as the “Brown Book” which contained information that was inventoried during this first RIP phase. In the 1990s, a cyclical program was developed, and since then five cycles of collection have been completed. Cycle 6 is currently in progress. A summary of the RIP collection cycles is shown in the table below.

Cycle	Years	Parks Collected
Cycle 1	1994 - 1997	◦ 44 Large Parks
Cycle 2	1997 - 2001	◦ 79 Large Parks ◦ 5 Small Parks
Cycle 3	2001 - 2004	◦ All Large Parks ◦ All Small Parks
Cycle 4	2006 - 2010	◦ 86 Large Parks ◦ Several Small Parks
Cycle 5	2010 - 2014	◦ All Large Parks (Only functional class 1, 2, 7, and new/modified routes collected) ◦ All Small Parks (all roads and parking areas collected)
Cycle 6	2014 – 2020 (±)	◦ All roads and parking areas collected at all Parks ◦ Additional partial collections of functional class 1, 2, and 7 roads at Large Parks ◦ Cycle 6 is expected to last 6 years

Note: Large Parks have ≥ 10 Paved Miles; Small Parks have < 10 Paved Miles

Since 1984, the Road Inventory Program has been funded through the Federal Lands Highway Park Roads and Parkways (PRP) Program. Currently, coordination of the RIP with Federal Lands Highway (FLH) is under the NPS Washington Headquarters Park Facility Management Division. 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) requiring the FHWA and NPS, to develop by rule, a Pavement Management System (PMS) applied to park roads and parkways serving the National Park System.

In 2012, the Moving Ahead for Progress in the 21st Century Act (MAP-21) amended Title 23 U.S.C., and under Section 203(c)(1-2) stated that the National Park Service in cooperation with the DOT/FHWA, shall maintain a comprehensive national inventory of their transportation facilities, with the goal of quantifying transportation infrastructure needs within the National Park System.

A History of the Pavement Management System:

In 2005, the FHWA began implementing the use of a pavement management system to assist the NPS in prioritizing Pavement Maintenance and Rehabilitation activities. The system used by FHWA is the Highway Pavement Management Application (HPMA), which has the ability to store inventory and condition data from RIP and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Regional, Park, or Route level. Regional prioritized lists and optimizations have been produced for most regions, and the Service's overall roadway Deferred Maintenance is calculated via the HPMA.

Overview of Cycle 6:

Cycle 6 launched in the spring of 2014 and will again comprise all NPS park units that are served by paved roads and/or parking areas. For Cycle 6, all paved roads (approximately 5,700 miles) and parking areas will be collected in all parks at least once, while the primary routes (functional class 1, 2, and 7 roads) at Large Parks will have additional collections. These multiple collections will provide updated condition data on a majority of the NPS's primary road network and help build a better pavement management system, allowing for more accurate pavement performance prediction models.

FLH is responsible for the accuracy of all data presented in this report. Any questions or comments concerning the contents of this report should be directed to the national RIP Coordinator located in Sterling, Virginia.

Respectfully,

FHWA RIP Team

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Section 2 Park Route Inventory



Bryce Canyon National Park



**Federal Lands Highway
Road Inventory Program**

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Non-NPS Routes

■ = Concession Route

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Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data was obtained from the NPS and was not collected by the Road Inventory Program (RIP).

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 MRL = Manually Rated Line
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BRCA Bryce Canyon National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map	
					From	To										
0010ZZ	6	1	45896		MAIN PARK ROAD	FROM NORTH PARK BOUNDARY / END OF STATE ROUTE 63	TO ROUTE 0926 (RAINBOW POINT PARKING)		YES	18.33	0.00	18.33	1		AS	1,1A,2
0011	6	1	46198		LODGE LOOP ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 1.66	TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 2.19		YES	0.93	0.00	0.93	1		AS	1A
0100	6	1	46465		BRYCE POINT ACCESS ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 2.92	TO ROUTE 0919 (BRYCE POINT PARKING)		YES	1.95	0.00	1.95	1		AS	1
0200	6	1	45904		FAIRYLAND ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 0.38	TO ROUTE 0900 (FAIRYLAND PARKING)		YES	0.97	0.00	0.97	2		AS	1
0201	6	1	45954		NORTH CAMPGROUND ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 1.35 ON LEFT	TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD) AT MP 0.40 ON RIGHT		YES	0.61	0.00	0.61	3		AS	1A
0201AA	6	1	104358		NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP	FROM ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.21	TO END OF LOOP		YES	0.29	0.00	0.29	3		AS	1A
0201AB	6	1	104360		NORTH CAMPGROUND LOOP ROAD A, CONNECTOR	FROM ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP) AT MP 0.03 ON LEFT	TO ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP) AT MP 0.17 ON LEFT		YES	0.07	0.00	0.07	3		AS	1A
0201BA	6	1	104361		NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP	FROM ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.30 ON RIGHT	TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.25 ON RIGHT		YES	0.17	0.00	0.17	3		AS	1A
0201BB	6	1	104363		NORTH CAMPGROUND LOOP ROAD B	FROM ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP) AT MP 0.02	TO ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP) AT MP 0.04		YES	0.04	0.00	0.04	3		AS	1A
0201C	6	1	104364		NORTH CAMPGROUND LOOP ROAD C	FROM ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.43 RIGHT	TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.36 ON RIGHT		YES	0.14	0.00	0.14	3		AS	1A

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BRCA Bryce Canyon National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0201DA	6	1	104365		NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP	FROM INTERSECTION OF ROUTE 0201 (NORTH CAMPGROUND ROAD) AND 0201C (NORTH CAMPGROUND LOOP ROAD C)	TO END OF LOOP		YES	0.32	0.00	0.32	3		AS	1A
0201DB	6	1	104366		NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #1	FROM ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP) AT MP 0.15	TO ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP) AT MP 0.30		YES	0.09	0.00	0.09	3		AS	1A
0201DC	6	1	104367		NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #2	FROM ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP) AT MP 0.17	TO ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP) AT MP 0.23		YES	0.05	0.00	0.05	3		AS	1A
0202	6	1	46281		SUNRISE POINT ACCESS ROAD	FROM ROUTE 0011 (LODGE LOOP ROAD) AT MP 0.52	TO ROUTE 0011 (LODGE LOOP ROAD) AT MP 0.32		YES	0.51	0.00	0.51	2		AS	1A
0203	6	1	46458		SUNSET POINT ACCESS ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 2.39	TO ROUTE 0918 (SUNSET POINT PARKING)		YES	0.15	0.00	0.15	2		AS	1A
0204	6	1	46462		INSPIRATION POINT ACCESS ROAD	FROM ROUTE 0100 (BRYCE POINT ACCESS ROAD)	TO ROUTE 0921 (INSPIRATION POINT PARKING)		YES	0.23	0.00	0.23	2		AS	1
0205ZZ	6	1	46474		PARIA VIEW ACCESS ROAD AND SPUR	FROM ROUTE 0100 (BRYCE POINT ACCESS ROAD) AT MP 1.32	TO ROUTE 0920 (PARIA POINT PARKING)		YES	0.43	0.00	0.43	2		AS	1
0206	6	1	46216		SUNSET CAMPGROUND ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 2.52 ON RIGHT	TO BEGINNING OF ROUTE 0206C (SUNSET CAMPGROUND ROAD LOOP C)		YES	0.32	0.00	0.32	3		AS	1A
0206A	6	1	104404		SUNSET CAMPGROUND ROAD LOOP A	FROM ROUTE 0206 (SUNSET CAMPGROUND ROAD) AT MP 0.10 ON RIGHT	TO ROUTE 0206 (SUNSET CAMPGROUND ROAD) AT MP 0.18 ON RIGHT		YES	0.43	0.00	0.43	3		AS	1A
0206B	6	1	104406		SUNSET CAMPGROUND ROAD LOOP B	FROM ROUTE 0206 (SUNSET CAMPGROUND ROAD) AT MP 0.21 ON LEFT	TO END OF LOOP		YES	0.20	0.00	0.20	3		AS	1A

Report Date: 05/23/2017

Cycle 6 NPS / RIP Route ID Report

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BRCA Bryce Canyon National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0206C	6	1	104408		SUNSET CAMPGROUND ROAD LOOP C	FROM ROUTE 0206 (SUNSET CAMPGROUND ROAD) AT END	TO END OF LOOP		YES	0.25	0.00	0.25	3		AS	1A
0207	6	1	46251		LODGE ACCESS ROAD	FROM ROUTE 0011 (LODGE LOOP ROAD)	TO ROUTE 0913 (WESTERN CABIN PARKING AREA NORTH)		YES	0.22	0.00	0.22	3		AS	1A
0208	NC		46395		EAST CREEK ROAD	FROM END OF ROUTE 0401 (MIXING CIRCLE ROAD)	TO END		NO	0.00	1.61	1.61	4		GR	
0400	6	1	45979		HISTORIC HOUSING DISTRICT ACCESS ROAD	FROM ROUTE 0011 (LODGE LOOP ROAD) AT MP 0.49	TO ROUTE 0011 (LODGE LOOP ROAD) AT MP 0.22		YES	0.34	0.00	0.34	5		AS	1A
0401	6	1	46378		MIXING CIRCLE ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 2.09	TO BEGINNING OF ROUTE 0208 (EAST CREEK ROAD) / END OF PAVEMENT		NO	0.64	0.00	0.64	6		AS	1A
0402	6	1	46337		HOUSING LOOP ROAD	FROM ROUTE 0411 (MAINTENANCE COMPLEX ROAD)	TO ROUTE 0402 (HOUSING LOOP ROAD) AT MP 0.16 ON LEFT		YES	0.48	0.00	0.48	5		AS	1A
0403	NC		45889		YOVIMPA PASS ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROADS) AT MP 17.06	TO END		NO	0.00	2.75	2.75	6		GR	
0405	NC		91735		WHITEMAN CAVE PATROL ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROADS) AT MP 11.85	TO END		NO	0.00	0.12	0.12	6		GR	
0406	NC		91736		WHITEMAN BENCH HAUL ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROADS) AT MP 8.27	TO END		NO	0.00	0.36	0.36	5		GR	
0408	NC		46024		WATER TANK HILL ACCESS ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROADS) AT MP 2.60	TO END		NO	0.00	0.48	0.48	6		GR	
0409	NC		91745		SEWER LAGOON ROAD	FROM END OF ROUTE 0917 (APARTMENT / PICNIC AREA PARKING)	TO END AT LAGOONS		NO	0.00	0.70	0.70	6		GR	
0410	NC				NPS HORSE BARN ROAD	FROM ROUTE 0401 (MIXING CIRCLE ROAD) ON LEFT	TO END OF ROUTE 0412 (BONE YARD ROAD)		NO	0.00	0.30	0.30	6		GR	

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BRCA Bryce Canyon National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0411	6	1	46445		MAINTENANCE COMPLEX ROAD	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 1.80	TO ROUTE 0941 (MAINTENANCE COMPLEX PARKING)		YES	0.10	0.00	0.10	5		AS	1A
0412	6	1	54000		BONE YARD ROAD	FROM ROUTE 0401 (MIXING CIRCLE ROAD)	TO END OF ROUTE 0410 (NPS HORSE BARN ROAD)		NO	0.11	0.00	0.11	6		AS	1A
0413	NC				WHITEMAN BENCH STAGING AREA	FROM ROUTE 0010ZZ (MAIN PARK ROADS) ON RIGHT	TO END		NO	0.00	0.20	0.20	6		GR	

NON-NPS ROADS INVENTORY

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
5000	4	1	91756		UTAH STATE ROUTE 12	FROM WEST PARK BOUNDARY	TO EAST PARK BOUNDARY		NO	3.75	0.00	3.75			AS	KEY

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
						From	To						
0900	6	1	45905		FAIRYLAND PARKING	FROM END OF ROUTE 0200 (FAIRYLAND ROAD)	TO PARKING		YES	PUBLIC	22,236	AS	1
0901	6	1	45916		VC ADMINISTRATION PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 1.14 ON RIGHT	TO PARKING		NO	NONPUBLIC	33,404	AS	1A
0902	6	1	45918		VISITOR CENTER PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 1.26 ON RIGHT	TO PARKING		YES	PUBLIC	43,044	AS	1A
0903	6	1	46283		SUNRISE POINT PARKING	ADJACENT TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD) ON RIGHT			YES	PUBLIC	4,519	AS	1A

Cycle 6 NPS / RIP Route ID Report

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BRCA Bryce Canyon National Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
					From	To						
0904	6	1	46285		HPI PARKING	ADJACENT TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD) ON LEFT		YES	PUBLIC	3,441	AS	1A
0905	6	1	46287		GENERAL STORE PARKING	FROM ROUTE 0202 (SUNRISE POINT ACCESS ROAD) AT MP 0.22 ON LEFT	TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD)	YES	PUBLIC	26,279	AS	1A
0906	6	1	45958		OUTDOOR THEATRE PARKING	ADJACENT TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD) ON RIGHT		YES	PUBLIC	2,712	AS	1A
0907	6	1	45959		DUMP STATION PARKING	FROM ROUTE 0202 (SUNRISE POINT ACCESS ROAD)	TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD)	YES	PUBLIC	6,499	AS	1A
0908	6	1	45974		SERVICE STATION PARKING	FROM ROUTE 0011 (LODGE LOOP ROAD)	TO ROUTE 0011 (LODGE LOOP ROAD)	YES	PUBLIC	9,652	AS	1A
0909	6	1	46202	■	SUNRISE MOTEL PARKING	FROM ROUTE 0011 (LODGE LOOP ROAD)	TO ROUTE 0011 (LODGE LOOP ROAD)	YES	PUBLIC	22,278	AS	1A
0910	6	1	46199	■	LODGE PARKING	FROM ROUTE 0011 (LODGE LOOP ROAD)	TO ROUTE 0011 (LODGE LOOP ROAD)	YES	PUBLIC	42,168	AS	1A
0911	6	1	46254	■	SUNSET MOTEL PARKING	FROM ROUTE 0207 (LODGE ACCESS ROAD)	TO ROUTE 0207 (LODGE ACCESS ROAD)	YES	PUBLIC	18,844	AS	1A
0912	6	1	46255	■	WESTERN CABIN PARKING AREA WEST	FROM ROUTE 0207 (LODGE ACCESS ROAD)	TO PARKING	YES	PUBLIC	4,125	AS	1A
0913	6	1	46258	■	WESTERN CABIN PARKING AREA NORTH	FROM END OF ROUTE 0207 (LODGE ACCESS ROAD)	TO PARKING	YES	PUBLIC	13,868	AS	1A
0916A	6	1	46262	■	PONDEROSA AND WHISPERING PINES DORMITORIES PARKING	FROM ROUTE 0400 (HISTORIC HOUSING DISTRICT ACCESS ROAD)	TO PARKING	YES	PUBLIC	24,392	AS	1A
0916B	6	1	91737	■	HS4 AND MANZANITA DORMITORY PARKING	FROM ROUTE 0400 (HISTORIC HOUSING DISTRICT ACCESS ROAD)	TO PARKING	YES	PUBLIC	14,046	AS	1A
0917	6	1	46342		APARTMENT / PICNIC AREA PARKING	FROM ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD)	TO ROUTE 0409 (SEWER LAGOON ROAD)	YES	PUBLIC	15,137	AS	1A
0918	6	1	46459		SUNSET POINT PARKING	FROM END OF ROUTE 0203 (SUNSET POINT ACCESS ROAD)	TO PARKING	YES	PUBLIC	59,306	AS	1A

Cycle 6 NPS / RIP Route ID Report

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Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					Route Name	From							To
0919	6	1	46470		BRYCE POINT PARKING	FROM END OF ROUTE 0100 (BRYCE POINT ACCESS ROAD)	TO PARKING		YES	PUBLIC	26,616	AS	1
0920	6	1	46478		PARIA POINT PARKING	FROM END OF ROUTE 0205ZZ (PARIA VIEW ACCESS ROAD AND SPUR)	TO PARKING		YES	PUBLIC	12,734	AS	1
0921	6	1	46466		INSPIRATION POINT PARKING	FROM END OF ROUTE 0204 (INSPIRATION POINT ACCESS ROAD)	TO PARKING		YES	PUBLIC	33,767	AS	1
0922	6	1	46460		FAIRVIEW POINT PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 10.81	TO PARKING		YES	PUBLIC	46,789	AS	2
0923	6	1	46454		NATURAL BRIDGE PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 12.58	TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 12.66		YES	PUBLIC	24,299	AS	2
0924	6	1	46453		AGUA CANYON PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 14.04	TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 14.09		YES	PUBLIC	11,375	AS	2
0925	6	1	46452		PONDEROSA POINT PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.06	TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.11		YES	PUBLIC	12,370	AS	2
0926	6	1	46436		RAINBOW POINT PARKING	FROM END OF ROUTE 0010ZZ (MAIN PARK ROADS)	TO PARKING		YES	PUBLIC	44,818	AS	2
0927	6	1	91743		PARK ENTRANCE PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 0.07	TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 0.11		YES	PUBLIC	14,800	AS	1
0928	6	1	46484		NO-NAME SOUTH PARKING	ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 17.45			YES	PUBLIC	2,036	AS	2
0929	6	1	46495		BLACK BIRCH PARKING	ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.98			YES	PUBLIC	2,187	AS	2
0930	6	1	46483		NO-NAME NORTH PARKING	ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.80			YES	PUBLIC	1,700	AS	2
0931	6	1	56325		NO-NAME MIDDLE PARKING	ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 13.35			YES	PUBLIC	2,518	AS	2
0932	6	1	91727		WORK GROUP SITE PARKING	ADJACENT TO ROUTE 0206A (SUNSET CAMPGROUND ROAD LOOP A) AT MP 0.35			YES	PUBLIC	3,470	AS	1A

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Non-NPS Routes

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data was obtained from the NPS and was not collected by the Road Inventory Program (RIP).

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 MRL = Manually Rated Line
 MRP = Manually Rated Polygon
 PKG = Parking Areas
 NC = Not Collected

BRCA Bryce Canyon National Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					Route Name	From							To
0933	6	1	91728		SUNSET CAMPGROUND GROUP SITE PARKING	FROM ROUTE 0206 (SUNSET CAMPGROUND ROAD)	TO PARKING		YES	PUBLIC	7,239	AS	1A
0934A	6	1	91748		SCHOOL BUS STOP PARKING	ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.22			YES	PUBLIC	912	AS	1A
0934B	6	1	91749		PARKING AREA ACROSS FROM Q-19	ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.31			YES	PUBLIC	1,612	AS	1A
0934C	6	1	91750		PARKING AREA ACROSS FROM Q-21	ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.38			YES	PUBLIC	1,295	AS	1A
0934D	6	1	91751		PARKING AREA ACROSS FROM Q-24	ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.44			YES	PUBLIC	1,235	AS	1A
0935A	6	1	91724		NORTH CAMPGROUND PICNIC AREA PARKING NORTH	ADJACENT TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.49			YES	PUBLIC	2,860	AS	1A
0935B	6	1	91725		NORTH CAMPGROUND PICNIC AREA PARKING SOUTH	ADJACENT TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.53			YES	PUBLIC	1,957	AS	1A
0936	6	1	91726		NORTH CAMPGROUND PICNIC AREA PARKING	ADJACENT TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.56			YES	PUBLIC	2,725	AS	1A
0937	6	1	46469		LONG HOLLOW PICNIC PARKING AREA	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 9.73	TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 9.77		YES	PUBLIC	14,265	AS	2
0938	6	1	46471		WHITEMAN TRAILHEAD PARKING	ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 9.19			YES	PUBLIC	2,559	AS	2
0939	6	1	46472		SWAMP CANYON PARKING	FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 6.30	TO ROUTE 0010ZZ (MAIN PARK ROAD)		YES	PUBLIC	9,575	AS	2
0940	6	1	46476		CCC PICNIC AREA PARKING	ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 4.68			YES	PUBLIC	2,736	AS	1
0941	6	1			MAINTENANCE COMPLEX PARKING	FROM END OF ROUTE 0411 (MAINTENANCE COMPLEX ROAD)	TO MAINTENANCE AREA		NO	NONPUBLIC	60,297	AS	1A

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



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BRCA Bryce Canyon National Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
						From	To						
0942	6	1	246786		VISITOR CENTER OVERFLOW PARKING	FROM ROUTE 0201 (NORTH CAMPGROUND ROAD)	TO PARKING		YES	PUBLIC	47,837	AS	1A
0943	NC				MIXING CIRCLE STORAGE PARKING	FROM ROUTE 0401 (MIXING CIRCLE ROAD) ON LEFT	TO PARKING		NO	PUBLIC		GR	
0944	NC				MIXING CIRCLE RV LOOP / PARKING	FROM ROUTE 0401 (MIXING CIRCLE ROAD) ON RIGHT	TO PARKING		NO	NONPUBLIC		GR	
0945	NC			■	HORSE CORRAL PARKING	FROM ROUTE 0401 (MIXING CIRCLE ROAD) ON RIGHT	TO PARKING		NO	PUBLIC		GR	
0946	NC		245306		SERVICE STATION MMT HUB PARKING	FROM ROUTE 0202 (SUNRISE POINT ACCESS ROAD)	TO PARKING		NO	PUBLIC	30,000	GR	
0947	NC		245307		PLANNED - BRYCE POINT ROAD MMT HUB PARKING	FROM ROUTE 0100 (BRYCE POINT ACCESS ROAD)	TO ROUTE 0204 (INSPIRATION POINT ACCESS ROAD)		NO	PUBLIC	35,000	GR	

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



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Black = Non-NPS Routes

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

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Cycle 6 Summary Totals for Bryce Canyon National Park

Cycle 6 Route Totals			
	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	28.37	0	28.37
Paved Roads, Manually Rated Length (Miles)	0	0	0
Paved Roads, Manually Rated Area (Sq. Ft.)	0	0	0
Unpaved Roads (Miles)	6.52	0	6.52
Paved Parking (Sq. Ft.)	622,812	139,721	762,533
Unpaved Parking (Sq. Ft.)	65,000	0	65,000

Cycle 6 Lane Miles and Overall Pavement Condition		
	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	67.15	92
Manually Rated Roads	0	N/A
Parking Areas	13.13	77

* Equivalent Lane Miles are calculated by route using the following equations:
 - DCV and MRLs = (PAVE_WIDTH x PAVED_MI) / 11 foot lane
 - MRPs and PKGs = SQ_FEET / 5280 / 11 foot lane

**Parking and Manually Rated Routes are assigned the following PCR values based on the type of observed distresses:
 -Excellent = 97 -Good = 90 -Fair = 73
 -Poor = 53, 30, or 0 -Construction / Not Rated = -1

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Non-NPS Routes

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data was obtained from the NPS and was not collected by the Road Inventory Program (RIP).

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 PKG = Parking Areas
 NC = Not Collected

General Park Road Functional Classification (FC) Table

FC	Type	User Access	Description	Route Numbers	Surface Types
1	Principal Park Road Rural Parkway	Public	Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Rural Parkways (e.g. Natchez Trace) are numbered 0001 - 0009.	0001 - 0009 0010 - 0099	AS - Asphaltic Concrete Pavement
2	Connector Park Road	Public	Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc.	0100 - 0199	BR - Brick or Pavers Road Bed CB - Cobble Stone Road Bed
3	Special Purpose Park Road	Public	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.	0200 - 0299	CO - Portland Cement Concrete Pavement GR - Gravel Road Bed
4	Primitive Park Road	Public	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. Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.	0200 - 0299	NV - Native or Dirt Material Road Bed
5	Administrative Park Road	Public	All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas.	0400 - 0499	OT - Other Materials Road Bed
6	Administrative Park Road (Restricted Access)	Nonpublic	All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. 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.	0400 - 0499	
7	Urban Parkway	Public	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.	0001 - 0009	
8	City Street	Public	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.	0600 - 0699	
N/A	Non-NPS Roads	Public	State, County, or City owned roads which border, traverse, or provide access to Park Facilities or Locations. Non-NPS roads are not assigned functional classes and are driven for GPS and Video Log only.	5000 - 5999	

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 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.

NPS / RIP Subcomponent Details for BRCA

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

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 NC = Not Collected

BRCA Bryce Canyon National Park

SUMMARY ROUTE INVENTORY FOR ROADS (1100 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0010ZZ	45896	6	1		MAIN PARK ROAD	FROM NORTH PARK BOUNDARY / END OF STATE ROUTE 63	TO ROUTE 0926 (RAINBOW POINT PARKING)	YES	18.33	0.00	18.33	1	
0205ZZ	46474	6	1		PARIA VIEW ACCESS ROAD AND SPUR	FROM ROUTE 0100 (BRYCE POINT ACCESS ROAD) AT MP 1.32	TO ROUTE 0920 (PARIA POINT PARKING)	YES	0.43	0.00	0.43	2	

BRCA-0010ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0010AZ	45896	6	1		MAIN PARK ROAD (SOUTHBOUND)	FROM NORTH PARK BOUNDARY / END OF STATE ROUTE 63	TO ROUTE 0926 (RAINBOW POINT PARKING)	YES	18.20	0.00	18.20	1	
0010BZ	45896	6	1		MAIN PARK ROAD (EXIT LANE)	FROM ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))	TO ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))	YES	0.13	0.00	0.13	1	

BRCA-0205ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0205AZ	46474	6	1		PARIA VIEW ACCESS ROAD	FROM ROUTE 0100 (BRYCE POINT ACCESS ROAD)	TO ROUTE 0920 (PARIA POINT PARKING)	YES	0.38	0.00	0.38	2	
0205BZ	46474	6	1		PARIA VIEW ACCESS SPUR	FROM ROUTE 0100 (BRYCE POINT ACCESS ROAD)	TO ROUTE 0205AZ (PARIA VIEW ACCESS ROAD)	YES	0.05	0.00	0.05	2	

Route Identification Changes to Paved Routes from Previous Cycle Bryce Canyon National Park

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	Route Name	Type of Change	Comments
0010ZZ	MAIN PARK ROAD	LENGTH CHANGE	THE EXIT LANE AROUND THE ENTRANCE STATION (ROUTE 0010BZ) WAS ADDED TO THE INVENTORY IN CYCLE 6.
0205ZZ	PARIA VIEW ACCESS ROAD AND SPUR	LENGTH CHANGE	THE PARIA VIEW ACCESS SPUR FROM BRYCE POINT (ROUTE 0205BZ) WAS ADDED TO THE INVENTORY IN CYCLE 6.
0207	LODGE ACCESS ROAD	ROUTE SPLIT	THE ROAD SECTION OF WESTERN CABIN PARKING AREA NORTH (ROUTE 0913) WAS SPLIT FROM THE PARKING AREA AND COLLECTED AS A SEPARATE ROAD (ROUTE 0207) IN ORDER TO ALIGN WITH FMSS.
0401	MIXING CIRCLE ROAD	LENGTH CHANGE	THE UNPAVED MILEAGE ASSOCIATED WITH THIS ROUTE IN CYCLE 5 WAS REMOVED BECAUSE IT IS ROUTE 0208 (EAST CREEK ROAD).
0402	HOUSING LOOP ROAD	ROUTE NAME	ROUTE NAME CHANGED FROM "MISSION 66 HOUSING LOOP ROAD" TO "HOUSING LOOP ROAD".
0905	GENERAL STORE PARKING	SQ FEET CHANGE	THE PICNIC AREA/TURNAROUND LOOP WAS REMOVED FROM THE GENERAL STORE PARKING AREA SHAPE.
0906	OUTDOOR THEATRE PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "AMPHITHEATRE / GENERAL STORE PARKING" TO "OUTDOOR THEATRE PARKING".
0908	SERVICE STATION PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE WAS COLLECTED IN CYCLE 6; THE BUILDING WAS REMOVED FROM THE PARKING AREA SHAPE.
0909	SUNRISE MOTEL PARKING	SQ FEET CHANGE	A NEW SECTION OF PARKING ON THE NORTH END WAS ADDED TO THE GPS AND SHAPE.
0910	LODGE PARKING	SQ FEET CHANGE	A SECTION OF PARKING ADJACENT TO THE SHUTTLE LOOP IN FRONT OF THE LODGE WAS REMOVED.
0913	WESTERN CABIN PARKING AREA NORTH	ROUTE SPLIT	CYCLE 5 ROUTE 0913 WAS SPLIT INTO A ROAD AND PARKING AREA (ROUTE 0207 AND 0913) IN CYCLE 6 IN ORDER TO ALIGN WITH FMSS.
0927	PARK ENTRANCE PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "NORTH ENTRANCE PARKING" TO "PARK ENTRANCE PARKING".
0929	BLACK BIRCH PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "NO NAME MIDDLE PARKING" TO "BLACK BIRCH PARKING".
0931	NO-NAME MIDDLE PARKING AT MP 13.2	ROUTE NAME	ROUTE NAME CHANGED FROM "BLACK BIRCH PARKING" TO "NO NAME MIDDLE PARKING".

Route Identification Changes to Paved Routes from Previous Cycle Bryce Canyon National Park

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	Route Name	Type of Change	Comments
0941	MAINTENANCE COMPLEX PARKING	OTHER	USER ACCESS CHANGED FROM PUBLIC TO NONPUBLIC IN CYCLE 6 BECAUSE PARKING AREA IS RESTRICTED TO PARK EMPLOYEES ONLY.
0942	VISITOR CENTER OVERFLOW PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "TRAIL DROP OFF PARKING" TO "VISITOR CENTER OVERFLOW PARKING".

Section 3 Park Summary Information



Bryce Canyon National Park



**Federal Lands Highway
Road Inventory Program**

Parkwide Paved Route Condition Summary

Bryce Canyon National Park

Table 1: Paved Route Miles and Parking Area Square Footages by Access Level and PCR

Breakdown of Pavement Condition Rating (PCR) Based on Access Level

	POOR (PCR of 0 - 60)	FAIR (PCR of 61 - 84)	GOOD (PCR of 85 - 94)	EXCELLENT (PCR of 95 -100)	
PAVED ROADS					
Functional Class	Length (miles)	Length (miles)	Length (miles)	Length (miles)	Total Mileage by FC
1		0.65	4.49	16.03	21.17
2	0.06	0.85	0.43	0.95	2.29
3	2.27	0.05	0.17	0.71	3.20
4					
5	0.04	0.54	0.26	0.08	0.92
6		0.38	0.27	0.10	0.75
7					
8					
Total Mileage by PCR	2.37	2.47	5.62	17.87	28.33
PAVED PARKING					
Access Level	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Total Area
PUBLIC	196,426	84,628	387,778		668,832
NONPUBLIC			93,701		93,701
Total Area by PCR	196,426	84,628	481,479	0	762,533

NOTES:

1. Data are reported in the table only for paved roads and parking lots that received a condition rating.
2. Non-linear roads (MRP collected routes) are measured by area and converted to equivalent route miles based on a 22-ft pavement width in order to be included in the mileage totals for paved roads shown above.
3. Quantities in the table above are derived from the route condition data within the PMS_20, PMS_MRL, PMS_MRP, and PMS_PKG tables in the Park geodatabase.

Parkwide Condition Percentages

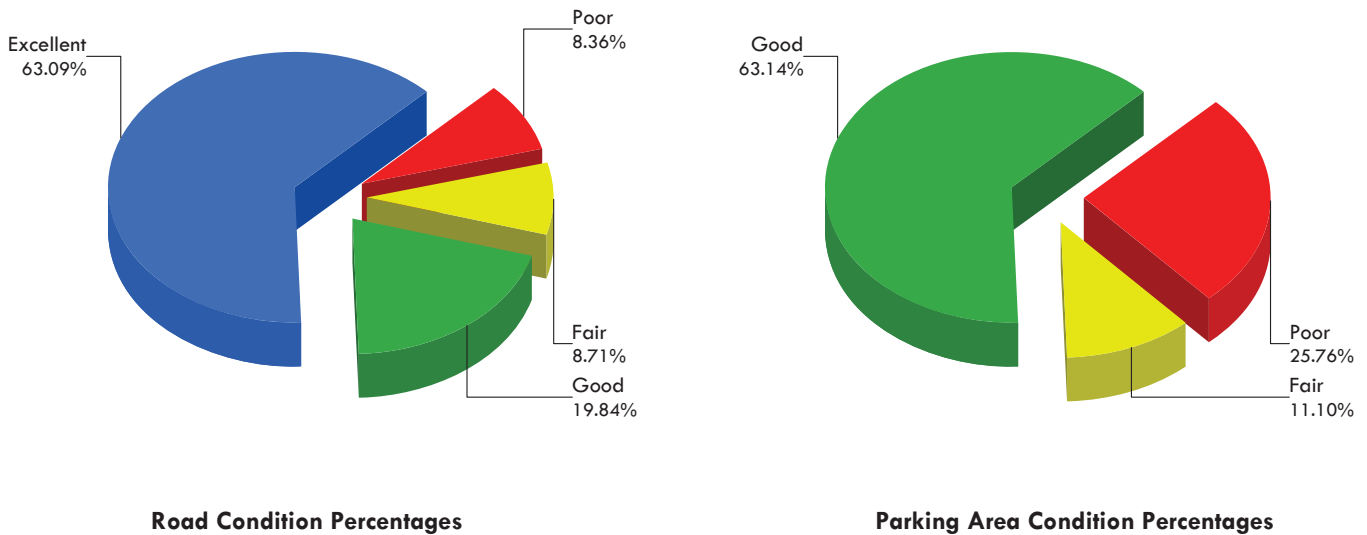
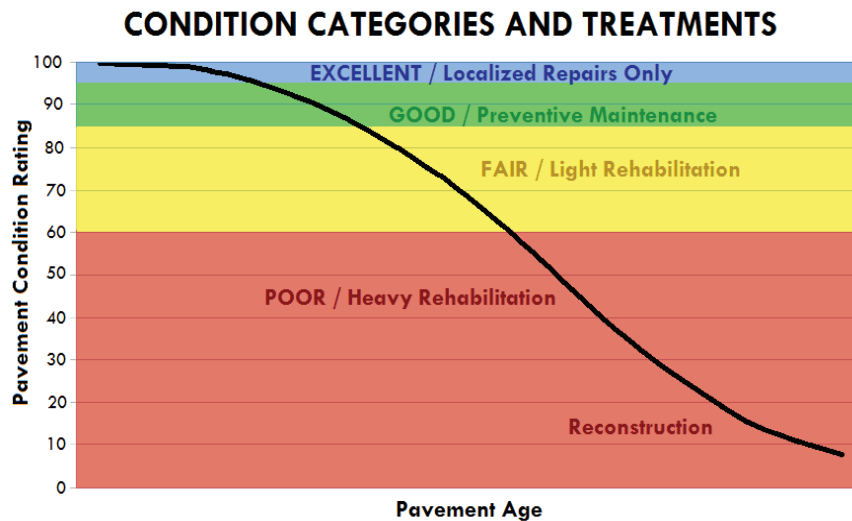


Figure 1: Pavement Condition Rating Breakdown for Paved Roads and Parking Areas

Explanation of the Excellent, Good, Fair, and Poor Condition Descriptions

The Road Inventory Program aims to provide assistance in translating the excellent / good / fair / poor rating categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the type of treatments that should be considered now and into the future.

- Excellent / New: PCR of 95-100
 - o Pavements in this range will require only spot repairs
- Good: PCR of 85-94
 - o Pavements in this range will likely be candidates for Preventive Maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.
- Fair: PCR of 61-84
 - o Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include singlelift overlays up to 2.5 inches in total thickness, milling and overlays.
- Poor: PCR of 0-60
 - o Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.



At this time, specific Maintenance and Rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions at the time in which the data were collected. For further information or to obtain additional Pavement Management System's data from our Highway Pavement Management Application (HPMA) please contact the Eastern Federal Lands pavement team.



Cycle 6 - Road Inventory Program Road Condition Summary Report for Data Collection Vehicle (DCV) Rated Roads

Bryce Canyon National Park

Condition (Rating / Index) Legend

EXCELLENT (95 - 100)
GOOD (85 - 94)
FAIR (61 - 84)
POOR (0 - 60)
NR = NOT RATED

- Notes:
- This condition summary report contains only the roads rated with the Data Collection Vehicle (DCV).
 - Condition on roads that were manually rated and parking areas are shown in separate reports.
 - Additional details on individual road ratings can be found in Section 5 of the Cycle 6 RIP Report.
 - Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
BRCA-0010AZ	45896	MAIN PARK ROAD (SOUTHBOUND)	1	AS	18.20	98	100	96	99	100	99	99	100	96
BRCA-0010BZ	45896	MAIN PARK ROAD (EXIT LANE)	1	AS	0.13	93	NR	93	93	100	93	94	100	96
BRCA-0011	46198	LODGE LOOP ROAD	1	AS	0.93	92	88	95	97	100	97	95	98	99
BRCA-0100	46465	BRYCE POINT ACCESS ROAD	1	AS	1.95	99	100	99	100	100	100	99	100	99
BRCA-0200	45904	FAIRYLAND ROAD	2	AS	0.97	77	69	82	82	100	82	84	100	98
BRCA-0201	45954	NORTH CAMPGROUND ROAD	3	AS	0.61	56	NR	79	79	89	90	93	96	93
BRCA-0201AA	104358	NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP	3	AS	0.29	98	NR	98	100	100	100	100	100	98
BRCA-0201AB	104360	NORTH CAMPGROUND LOOP ROAD A, CONNECTOR	3	AS	0.07	22	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0201BA	104361	NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP	3	AS	0.17	14	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0201BB	104363	NORTH CAMPGROUND LOOP ROAD B	3	AS	0.04	41	NR	41	41	99	42	48	98	80
BRCA-0201C	104364	NORTH CAMPGROUND LOOP ROAD C	3	AS	0.14	0	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0201DA	104365	NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP	3	AS	0.32	0	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0201DB	104366	NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #1	3	AS	0.09	0	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0201DC	104367	NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #2	3	AS	0.05	0	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0202	46281	SUNRISE POINT ACCESS ROAD	2	AS	0.51	96	NR	96	100	100	100	99	100	96
BRCA-0203	46458	SUNSET POINT ACCESS ROAD	2	AS	0.15	97	NR	97	99	100	99	98	100	97
BRCA-0204	46462	INSPIRATION POINT ACCESS ROAD	2	AS	0.23	96	NR	96	100	100	100	96	100	97
BRCA-0205AZ	46474	PARIA VIEW ACCESS ROAD	2	AS	0.38	98	NR	98	100	100	100	99	100	98
BRCA-0205BZ	46474	PARIA VIEW ACCESS SPUR	2	AS	0.05	93	NR	93	98	100	98	94	100	93



Cycle 6 - Road Inventory Program Road Condition Summary Report for Data Collection Vehicle (DCV) Rated Roads

Bryce Canyon National Park

Condition (Rating / Index) Legend

EXCELLENT (95 - 100)
GOOD (85 - 94)
FAIR (61 - 84)
POOR (0 - 60)
NR = NOT RATED

- Notes:
- This condition summary report contains only the roads rated with the Data Collection Vehicle (DCV).
 - Condition on roads that were manually rated and parking areas are shown in separate reports.
 - Additional details on individual road ratings can be found in Section 5 of the Cycle 6 RIP Report.
 - Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
BRCA-0206	46216	SUNSET CAMPGROUND ROAD	3	AS	0.32	18	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0206A	104404	SUNSET CAMPGROUND ROAD LOOP A	3	AS	0.43	0	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0206B	104406	SUNSET CAMPGROUND ROAD LOOP B	3	AS	0.20	0	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0206C	104408	SUNSET CAMPGROUND ROAD LOOP C	3	AS	0.25	0	NR	NR	NR	NR	NR	NR	NR	NR
BRCA-0207	46251	LODGE ACCESS ROAD	3	AS	0.22	95	NR	95	99	100	99	97	95	96
BRCA-0400	45979	HISTORIC HOUSING DISTRICT ACCESS ROAD	5	AS	0.34	85	NR	85	85	100	85	88	98	96
BRCA-0401	46378	MIXING CIRCLE ROAD	6	AS	0.64	82	86	80	80	100	80	93	100	97
BRCA-0402	46337	HOUSING LOOP ROAD	5	AS	0.48	83	NR	83	100	100	100	100	83	93
BRCA-0411	46445	MAINTENANCE COMPLEX ROAD	5	AS	0.10	81	NR	81	81	100	81	86	99	96
BRCA-0412	54000	BONE YARD ROAD	6	AS	0.11	96	NR	96	99	100	99	98	100	96



Cycle 6 - Road Inventory Program Parking Area Condition Summary Report

Bryce Canyon National Park

Condition (Rating / Index) Legend

EXCELLENT (97)
GOOD (90)
FAIR (73)
POOR* (0, 30, 53)
NR = NOT RATED

- Notes:
- A PCR of 0 indicates a paved parking area in very poor condition. Individual distresses could not be identified.
 - Additional details on individual parking areas can be found in Section 6 of the Cycle 6 RIP Report.
 - Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses					Concrete Surface Distresses						
							Alligator Cracking	Longitudinal / Transverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching	
BRCA-0900	45905	FAIRYLAND PARKING	PUBLIC	AS	22,236	53	90	53	90	90	97	90						
BRCA-0901	45916	VC ADMINISTRATION PARKING	NONPUBLIC	AS	33,404	90	97	90	90	97	97	90						
BRCA-0902	45918	VISITOR CENTER PARKING	PUBLIC	AS	43,044	73	90	90	90	97	97	73						
BRCA-0903	46283	SUNRISE POINT PARKING	PUBLIC	AS	4,519	90	97	97	97	97	97	90						
BRCA-0904	46285	HPI PARKING	PUBLIC	AS	3,441	90	97	97	97	97	97	90						
BRCA-0905	46287	GENERAL STORE PARKING	PUBLIC	AS	26,279	90	97	90	90	97	97	90						
BRCA-0906	45958	OUTDOOR THEATRE PARKING	PUBLIC	AS	2,712	90	97	90	97	97	97	90						
BRCA-0907	45959	DUMP STATION PARKING	PUBLIC	AS	6,499	90	97	97	97	97	97	90						
BRCA-0908	45974	SERVICE STATION PARKING	PUBLIC	AS	9,652	73	97	97	90	97	97	73						
BRCA-0909	46202	SUNRISE MOTEL PARKING	PUBLIC	AS	22,278	53	53	53	90	97	97	73						
BRCA-0910	46199	LODGE PARKING	PUBLIC	AS	42,168	53	53	90	90	73	90	90						
BRCA-0911	46254	SUNSET MOTEL PARKING	PUBLIC	AS	18,844	53	53	90	90	97	97	90						
BRCA-0912	46255	WESTERN CABIN PARKING AREA WEST	PUBLIC	AS	4,125	90	97	90	90	97	97	90						
BRCA-0913	46258	WESTERN CABIN PARKING AREA NORTH	PUBLIC	AS	13,868	73	90	90	97	73	90	90						
BRCA-0916A	46262	PONDEROSA AND WHISPERING PINES DORMITORIES PARKING	PUBLIC	AS	24,392	30	30	53	90	97	90	90						
BRCA-0916B	91737	HS4 AND MANZANITA DORMITORY PARKING	PUBLIC	AS	14,046	30	30	53	90	97	97	90						
BRCA-0917	46342	APARTMENT / PICNIC AREA PARKING	PUBLIC	AS	15,137	30	30	90	90	53	97	90						
BRCA-0918	46459	SUNSET POINT PARKING	PUBLIC	AS	59,306	90	97	90	90	97	90	90						
BRCA-0919	46470	BRYCE POINT PARKING	PUBLIC	AS	26,616	53	90	53	90	97	97	90						
BRCA-0920	46478	PARIA POINT PARKING	PUBLIC	AS	12,734	90	97	90	97	97	97	90						
BRCA-0921	46466	INSPIRATION POINT PARKING	PUBLIC	AS	33,767	90	97	90	90	97	97	97						
BRCA-0922	46460	FAIRVIEW POINT PARKING	PUBLIC	AS	46,789	90	90	90	90	97	97	90						
BRCA-0923	46454	NATURAL BRIDGE PARKING	PUBLIC	AS	24,299	90	97	90	90	97	97	90						
BRCA-0924	46453	AGUA CANYON PARKING	PUBLIC	AS	11,375	90	97	90	90	97	97	90						
BRCA-0925	46452	PONDEROSA POINT PARKING	PUBLIC	AS	12,370	90	97	90	90	97	97	90						
BRCA-0926	46436	RAINBOW POINT PARKING	PUBLIC	AS	44,818	90	90	90	90	97	97	90						



Cycle 6 - Road Inventory Program Parking Area Condition Summary Report

Bryce Canyon National Park

Condition (Rating / Index) Legend

EXCELLENT (97)
GOOD (90)
FAIR (73)
POOR* (0, 30, 53)
NR = NOT RATED

- Notes:
- A PCR of 0 indicates a paved parking area in very poor condition. Individual distresses could not be identified.
 - Additional details on individual parking areas can be found in Section 6 of the Cycle 6 RIP Report.
 - Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses					Concrete Surface Distresses						
							Alligator Cracking	Longitudinal / Transverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching	
BRCA-0927	91743	PARK ENTRANCE PARKING	PUBLIC	AS	14,800	90	97	90	90	97	97	90						
BRCA-0928	46484	NO-NAME SOUTH PARKING AT MP 17.2	PUBLIC	AS	2,036	90	97	97	90	97	97	90						
BRCA-0929	46495	BLACK BIRCH PARKING	PUBLIC	AS	2,187	73	97	90	90	97	97	73						
BRCA-0930	46483	NO-NAME NORTH PARKING AT MP 15.6	PUBLIC	AS	1,700	90	97	90	90	97	97	90						
BRCA-0931	56325	NO-NAME MIDDLE PARKING AT MP 13.2	PUBLIC	AS	2,518	90	97	97	90	97	97	90						
BRCA-0932	91727	WORK GROUP SITE PARKING	PUBLIC	AS	3,470	30	30	90	73	97	97	73						
BRCA-0933	91728	SUNSET CAMPGROUND GROUP SITE PARKING	PUBLIC	AS	7,239	30	30	90	53	53	97	73						
BRCA-0934A	91748	SCHOOL BUS STOP PARKING	PUBLIC	AS	912	90	97	90	97	97	97	90						
BRCA-0934B	91749	PARKING AREA ACROSS FROM Q-19	PUBLIC	AS	1,612	73	97	90	90	97	97	73						
BRCA-0934C	91750	PARKING AREA ACROSS FROM Q-21	PUBLIC	AS	1,295	90	97	97	97	97	97	90						
BRCA-0934D	91751	PARKING AREA ACROSS FROM Q-24	PUBLIC	AS	1,235	90	97	97	97	97	97	90						
BRCA-0935A	91724	NORTH CAMPGROUND PICNIC AREA PARKING NORTH	PUBLIC	AS	2,860	90	97	97	90	97	97	90						
BRCA-0935B	91725	NORTH CAMPGROUND PICNIC AREA PARKING SOUTH	PUBLIC	AS	1,957	90	97	90	97	97	97	90						
BRCA-0936	91726	NORTH CAMPGROUND PICNIC AREA PARKING	PUBLIC	AS	2,725	90	97	90	97	97	97	90						
BRCA-0937	46469	LONG HOLLOW PICNIC PARKING AREA	PUBLIC	AS	14,265	73	97	97	97	97	97	73						
BRCA-0938	46471	WHITEMAN TRAILHEAD PARKING	PUBLIC	AS	2,559	90	97	97	97	97	97	90						
BRCA-0939	46472	SWAMP CANYON PARKING	PUBLIC	AS	9,575	90	97	97	97	97	97	90						
BRCA-0940	46476	CCC PICNIC AREA PARKING	PUBLIC	AS	2,736	90	97	97	97	97	97	90						
BRCA-0941	N/A	MAINTENANCE COMPLEX PARKING	NONPUBLIC	AS	60,297	90	97	90	90	97	97	90						
BRCA-0942	246786	VISITOR CENTER OVERFLOW PARKING	PUBLIC	AS	47,837	90	97	90	97	97	97	90						

Section 4 Park Route Location Maps



Bryce Canyon National Park

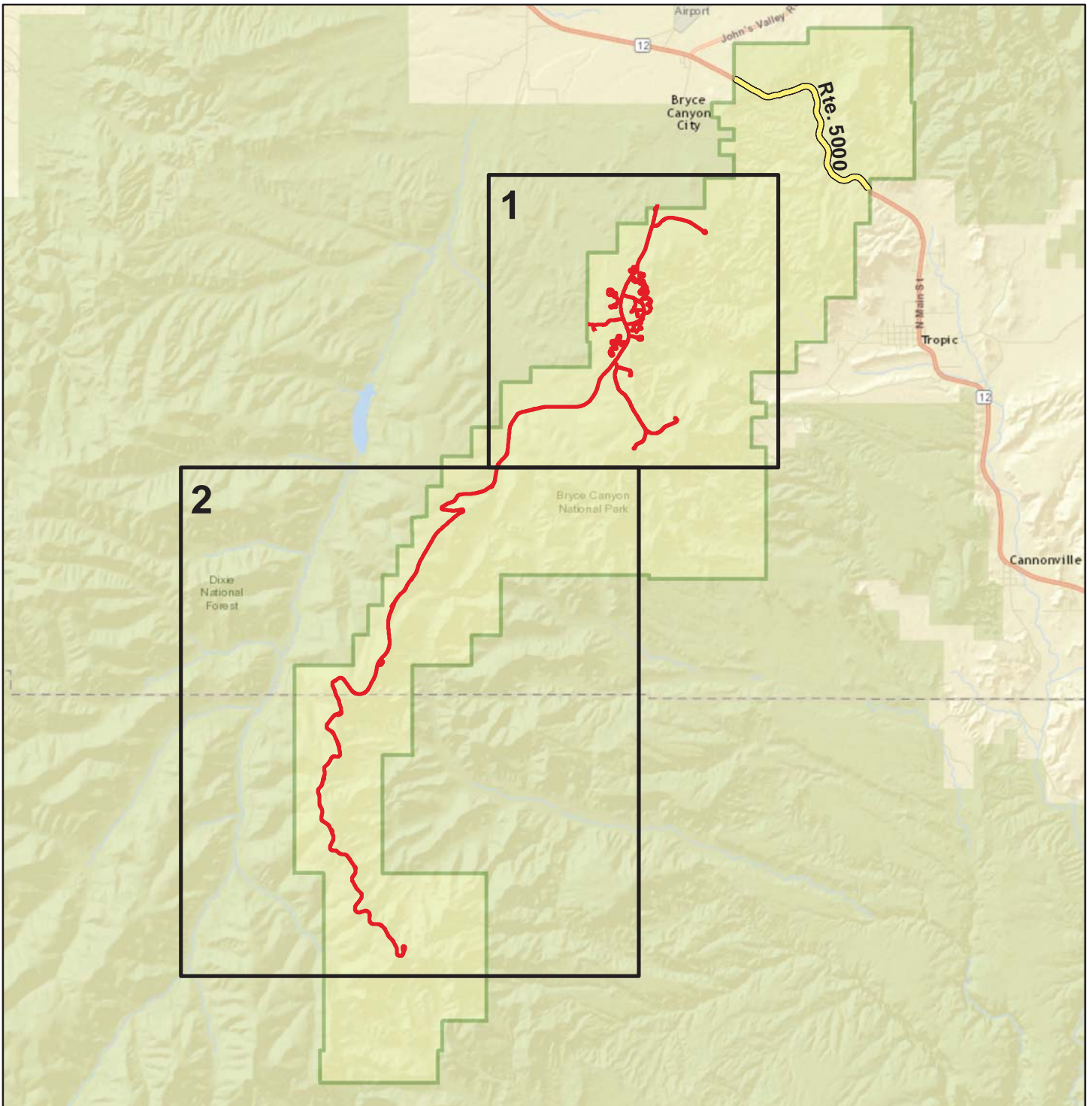


**Federal Lands Highway
Road Inventory Program**

Bryce Canyon National Park

ROUTE LOCATION MAP

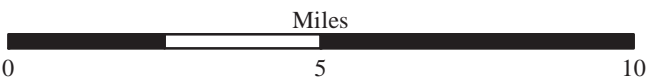
Key Map



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

 **NPS Collected Routes**

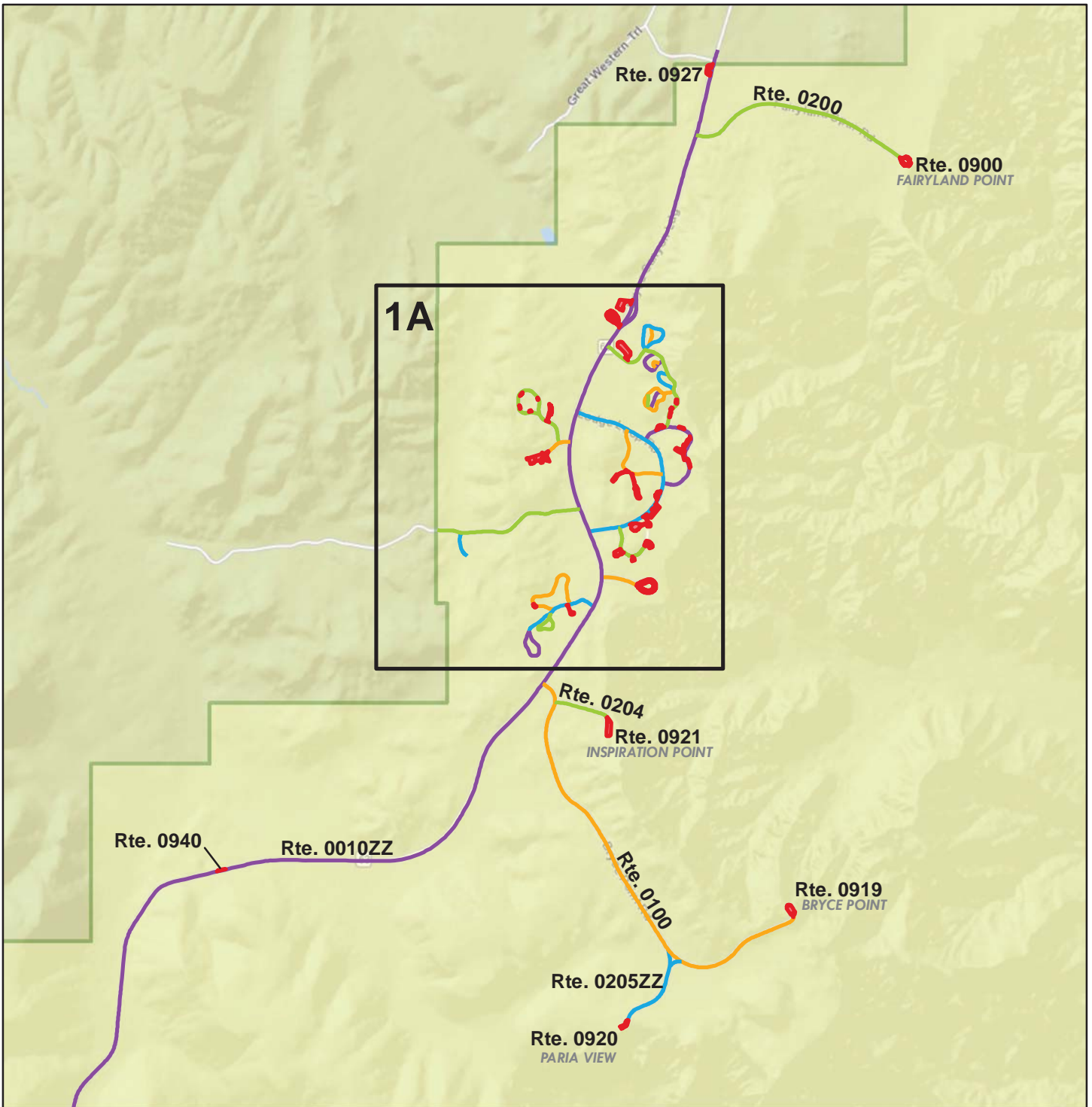
 **Non-NPS Collected Routes**



Bryce Canyon National Park

ROUTE LOCATION MAP

Map 1



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

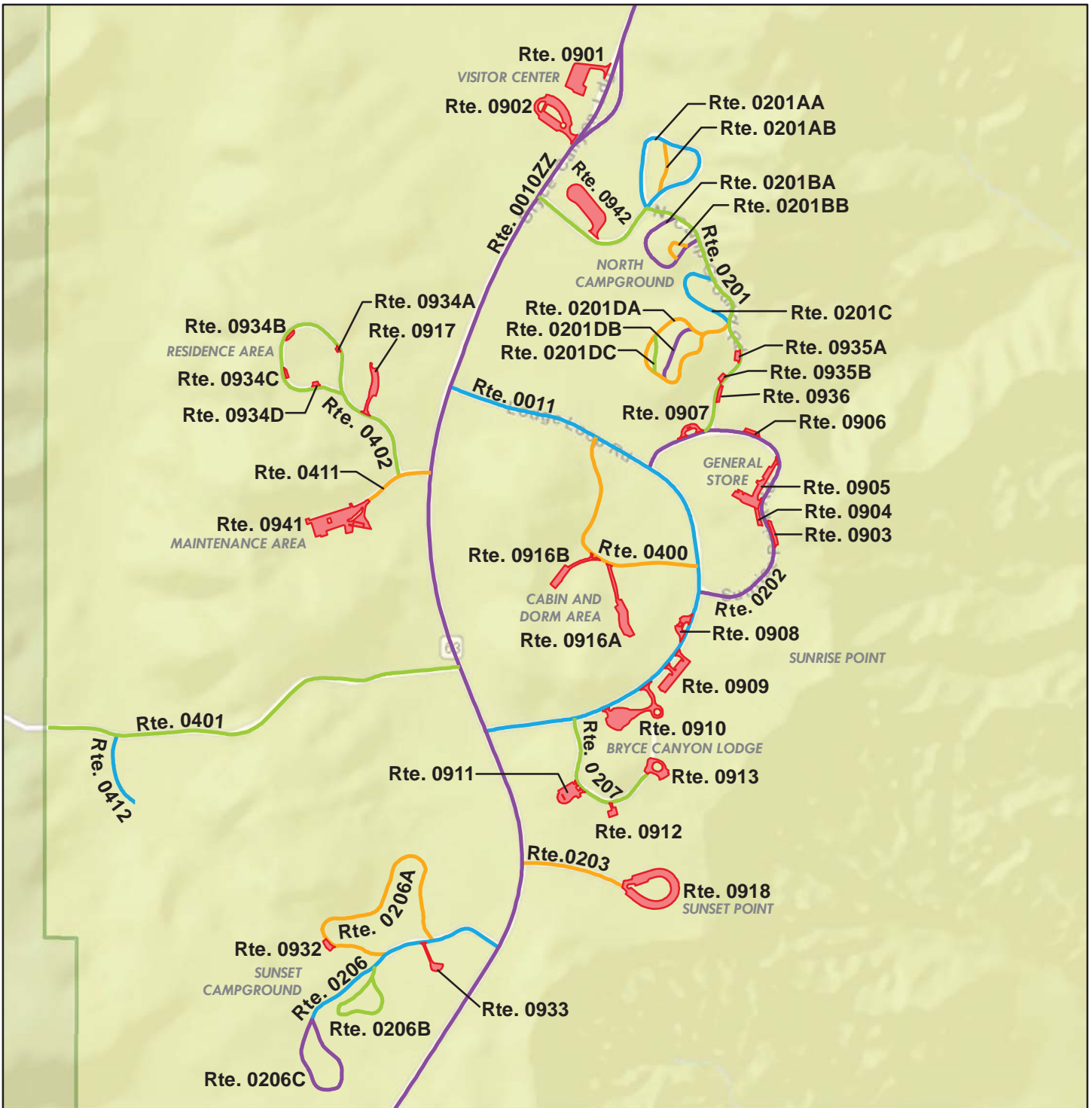
Note: Unique colors are used to differentiate roads



Bryce Canyon National Park

ROUTE LOCATION MAP

Map 1A



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

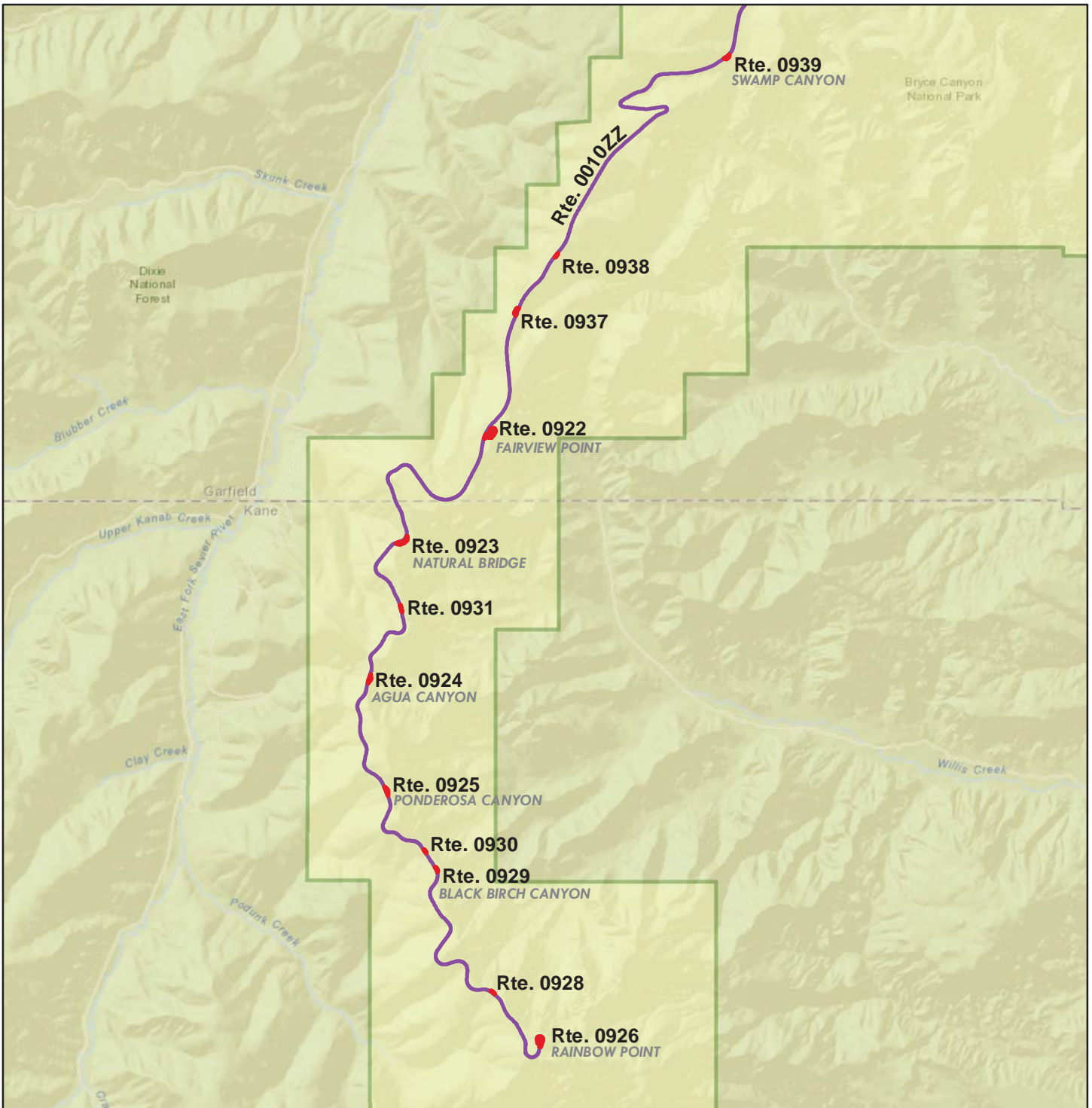
Note: Unique colors are used to differentiate roads



Bryce Canyon National Park

ROUTE LOCATION MAP

Map 2



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

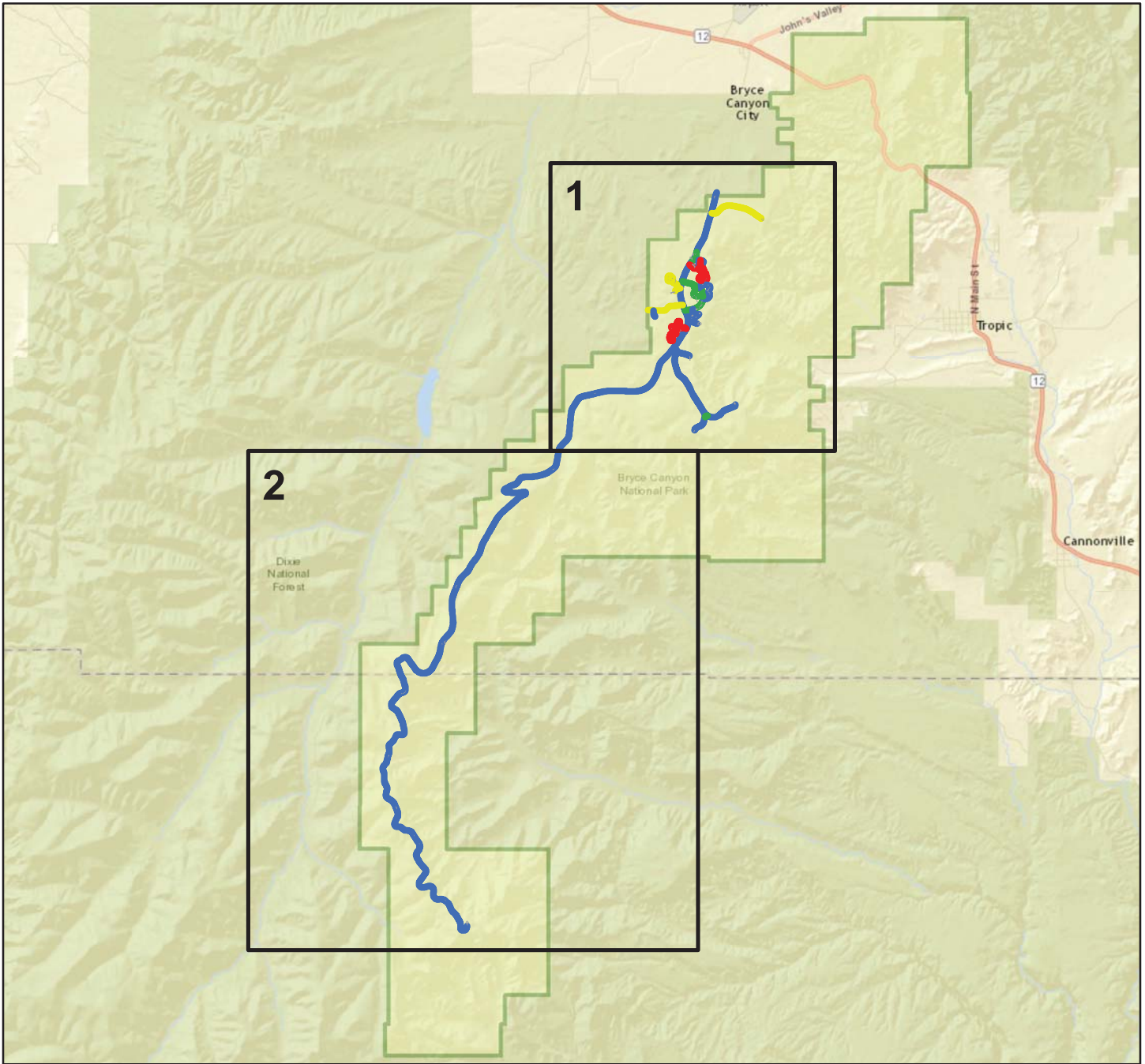


Bryce Canyon National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

Key Map



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

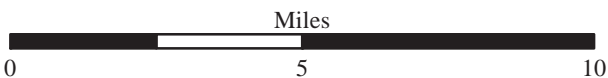
Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas

Only Data Collection Vehicle and Manually Rated Roads are displayed

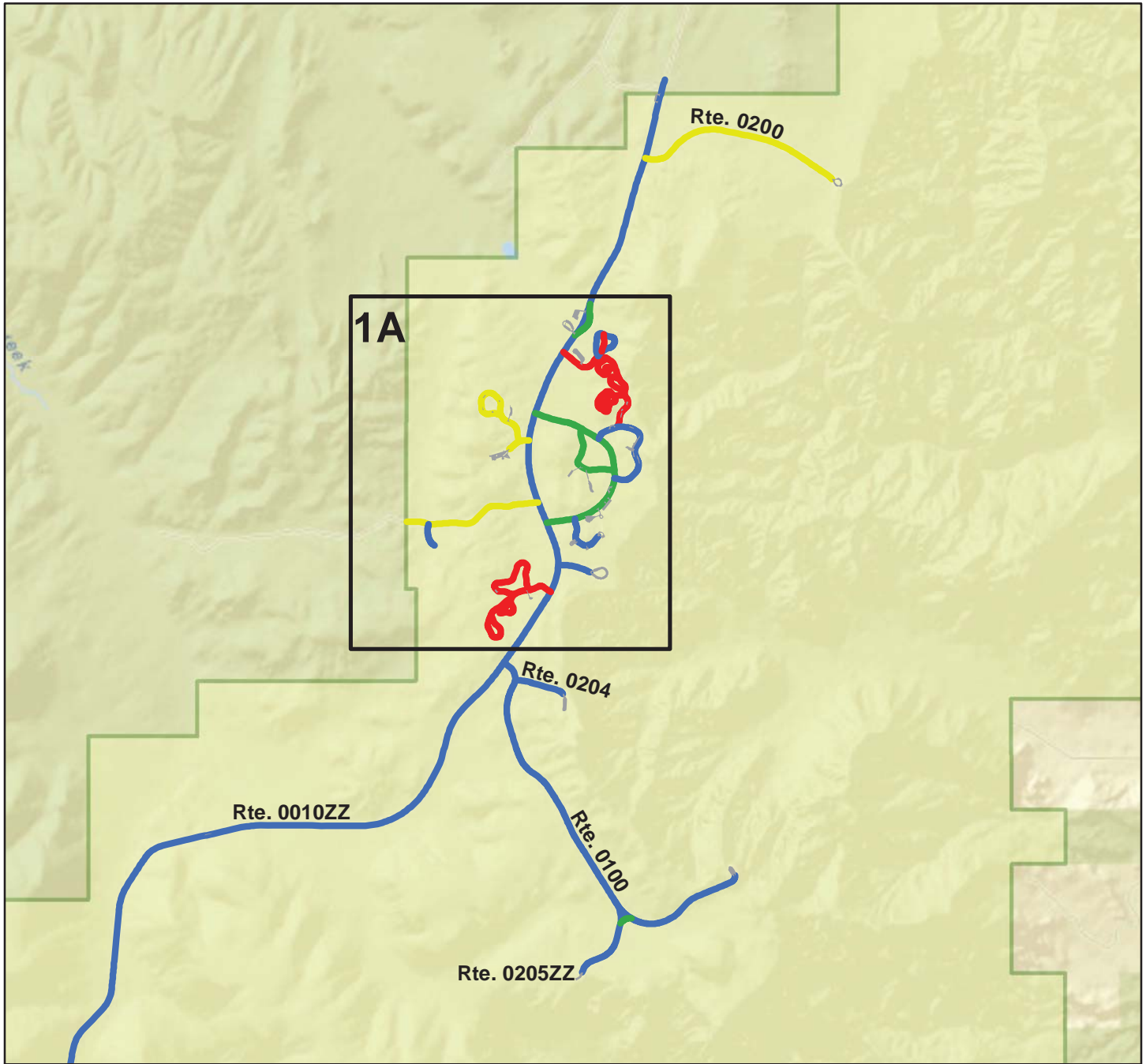


Bryce Canyon National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

Area Map 1



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

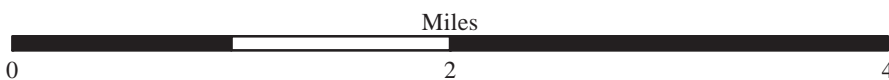
Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas

Only Data Collection Vehicle and Manually Rated Roads are displayed

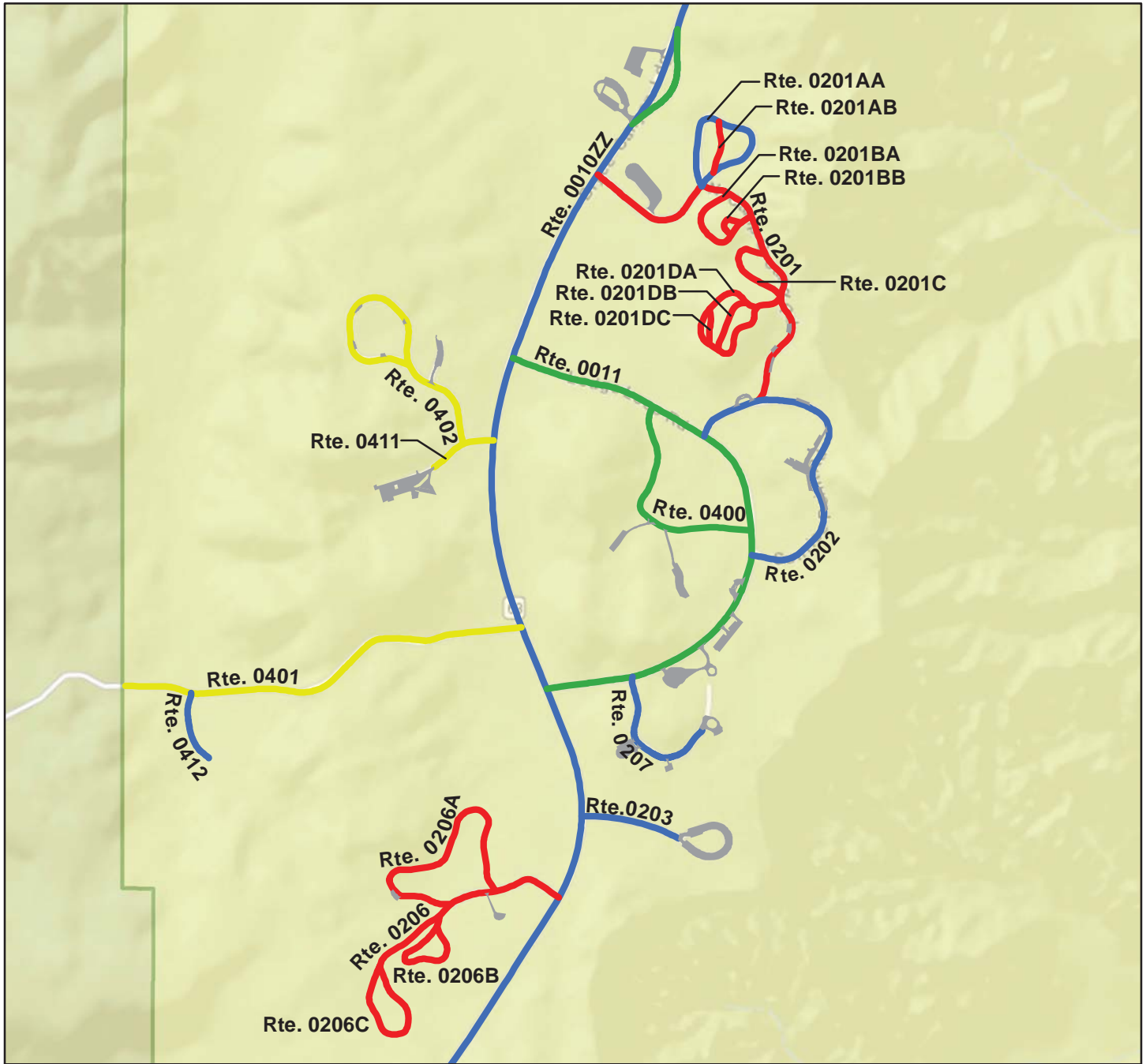


Bryce Canyon National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

Area Map 1A



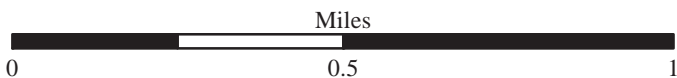
Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas

Only Data Collection Vehicle and Manually Rated Roads are displayed

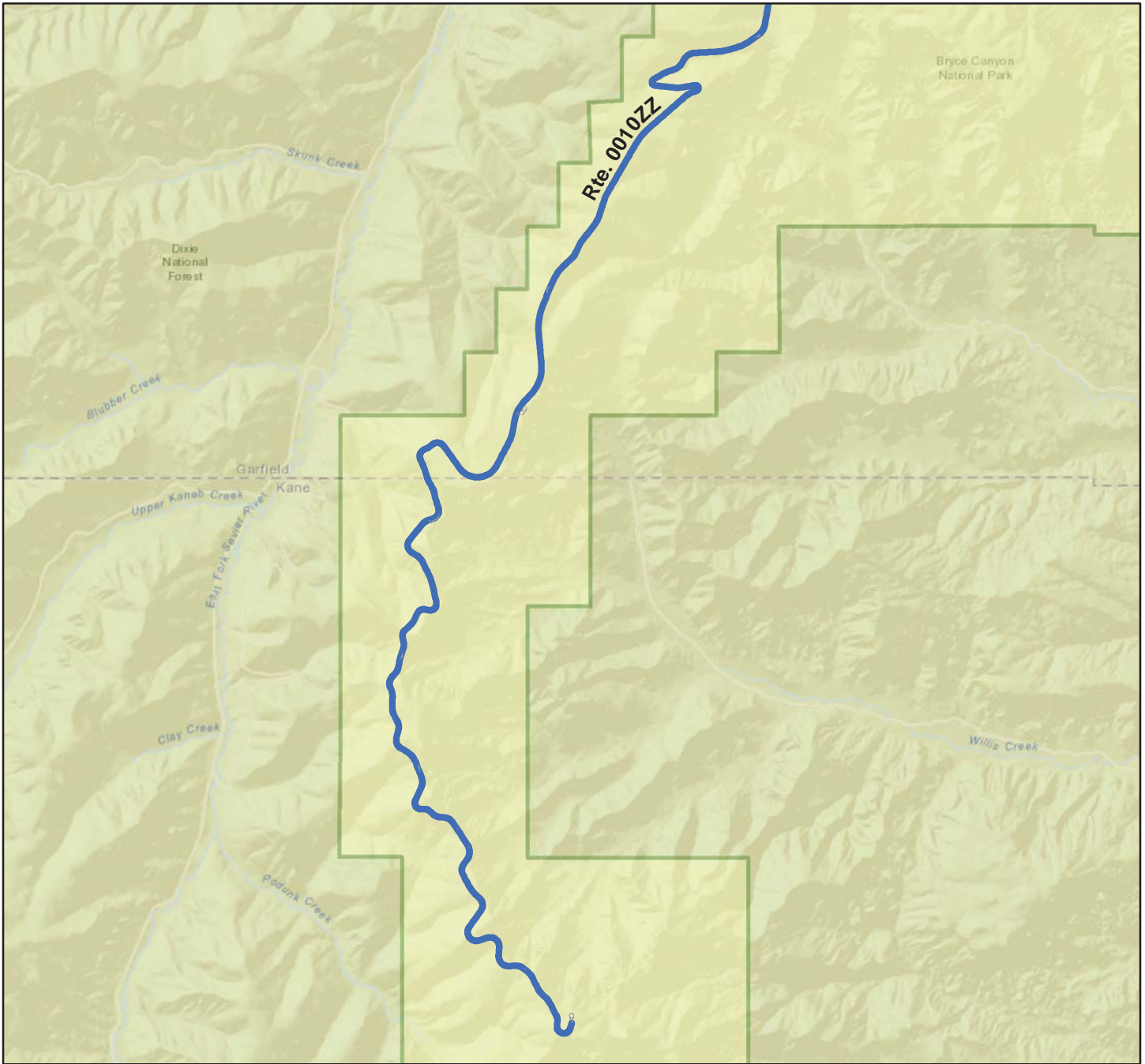


Bryce Canyon National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

Area Map 2



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas

Only Data Collection Vehicle and Manually Rated Roads are displayed



Section 5 Paved Road Condition Rating Sheets



Bryce Canyon National Park



**Federal Lands Highway
Road Inventory Program**

Bryce Canyon National Park

ROUTE 0010ZZ: MAIN PARK ROAD

Summary Route



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016					
Paved Length (Miles):	18.33					
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	98					
Lane & Width Information						
Number of Lanes	2					
Paved Width (ft)	29.1					
Lane Width (ft)	10.8					

Bryce Canyon National Park

ROUTE 0010AZ: MAIN PARK ROAD (SOUTHBOUND)

Subcomponent of Route BRCA-0010ZZ
Data Collection Vehicle (DCV) Rating



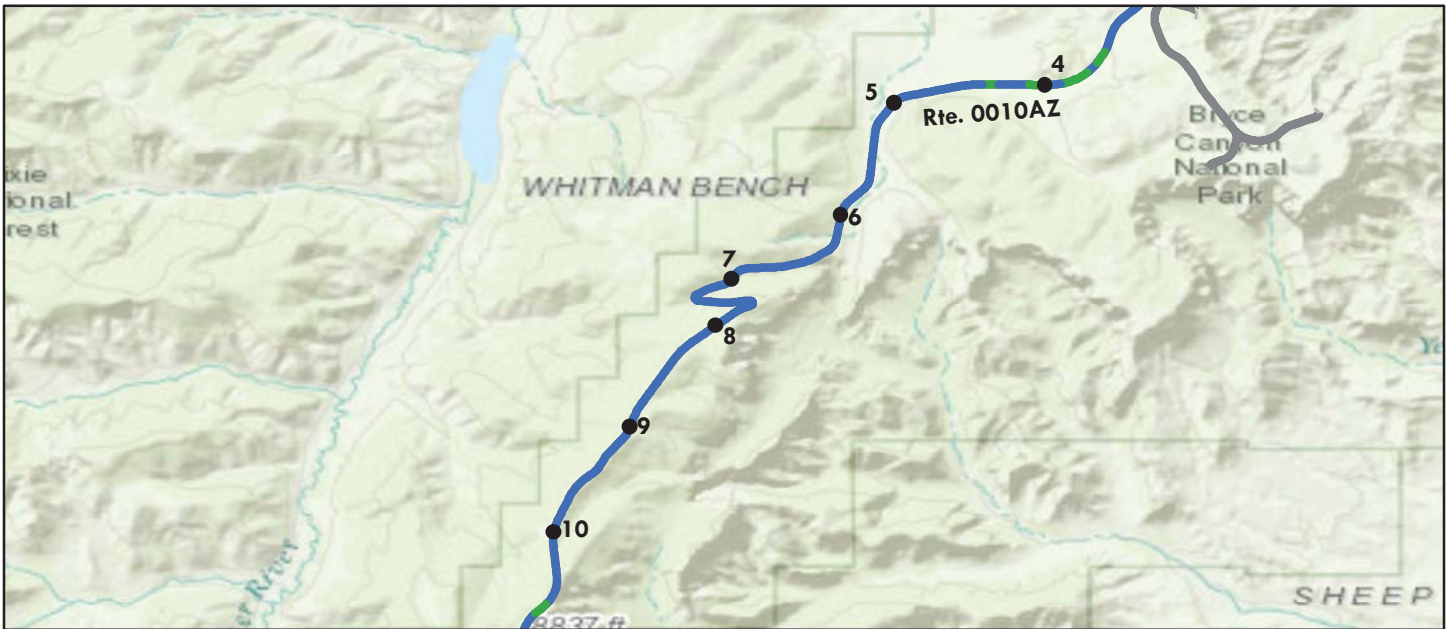
Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0	1	2	3	4
Paved Length (Miles): 18.20	Section Length (MI)	1	1	1	1	1
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	97	95	95	98	96
Surface Condition Rating (SCR)	96	95	92	91	96	93
Roughness Condition Index (RCI)	100	100	99	100	100	100
Distress Index Values						
Structural Crack Index	99	99	98	99	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	99	99	98	99	100	100
Transverse Cracking Index	99	100	99	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	96	95	92	91	96	93
International Roughness Index (IRI)	97	67	118	98	115	98
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	29.2	30	39.1	31.2	26	27.3
Lane Width (ft)	10.8	11	12.7	11.2	10.9	10.9

Bryce Canyon National Park

ROUTE 0010AZ: MAIN PARK ROAD (SOUTHBOUND)

Subcomponent of Route BRCA-0010ZZ
Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)									
Poor (0 - 60)		Fair (61- 84)		Good (85 - 94)		Excellent (95 - 100)		Not Rated	
See Appendix for definitions and formulas									
Inspection Date:	11/6/2016	Beginning Section MP	5	6	7	8	9		
Paved Length (Miles):	18.20	Section Length (MI)	1	1	1	1	1		
Surface Type:	ASPHALT	Route Summary							
Roadway Condition Information									
Pavement Condition Rating (PCR)	98	98	99	98	96	98			
Surface Condition Rating (SCR)	96	97	98	97	94	97			
Roughness Condition Index (RCI)	100	100	100	100	100	100			
Distress Index Values									
Structural Crack Index	99	100	100	100	100	100			
Alligator Crack Index	100	100	100	100	100	100			
Longitudinal Crack Index	99	100	100	100	100	100			
Transverse Cracking Index	99	100	100	100	100	100			
Patching Index	100	100	100	100	100	100			
Rutting Index	96	97	98	97	94	97			
International Roughness Index (IRI)	97	71	100	102	86	76			
Lane & Width Information									
Number of Lanes	2	2	2	2	2	2			
Paved Width (ft)	29.2	28.6	30.7	31.6	26.7	27.1			
Lane Width (ft)	10.8	10.8	10.8	10.8	10.7	10.2			

Bryce Canyon National Park

ROUTE 0010AZ: MAIN PARK ROAD (SOUTHBOUND)

Subcomponent of Route BRCA-0010ZZ
Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	10	11	12	13	14
Paved Length (Miles): 18.20	Section Length (MI)	1	1	1	1	1
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98	98	97	98	98
Surface Condition Rating (SCR)	96	97	96	95	96	97
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	99	98	100	95	96	97
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	99	98	100	95	96	97
Transverse Cracking Index	99	98	99	97	98	99
Patching Index	100	100	100	100	100	100
Rutting Index	96	97	96	96	96	97
International Roughness Index (IRI)	97	90	89	114	110	107
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	29.2	27.3	24.8	32.5	28.2	30.4
Lane Width (ft)	10.8	10.5	10	10.5	10.5	10.7

Bryce Canyon National Park

ROUTE 0010AZ: MAIN PARK ROAD (SOUTHBOUND)

Subcomponent of Route BRCA-0010ZZ
Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	15	16	17	18	
Paved Length (Miles): 18.20	Section Length (MI)	1	1	1	0.2	
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	99	98	99	99	
Surface Condition Rating (SCR)	96	98	97	98	98	
Roughness Condition Index (RCI)	100	100	100	100	100	
Distress Index Values						
Structural Crack Index	99	99	99	99	99	
Alligator Crack Index	100	100	100	100	100	
Longitudinal Crack Index	99	99	99	99	99	
Transverse Cracking Index	99	99	99	100	100	
Patching Index	100	100	100	100	100	
Rutting Index	96	98	97	98	98	
International Roughness Index (IRI)	97	104	110	92	109	
Lane & Width Information						
Number of Lanes	2	2	2	2	2	
Paved Width (ft)	29.2	28.6	27.6	29.2	27.4	
Lane Width (ft)	10.8	10.6	10.7	10.7	10.3	

Bryce Canyon National Park

ROUTE 0010BZ: MAIN PARK ROAD (EXIT LANE)

Subcomponent of Route BRCA-0010ZZ
Data Collection Vehicle (DCV) Rating



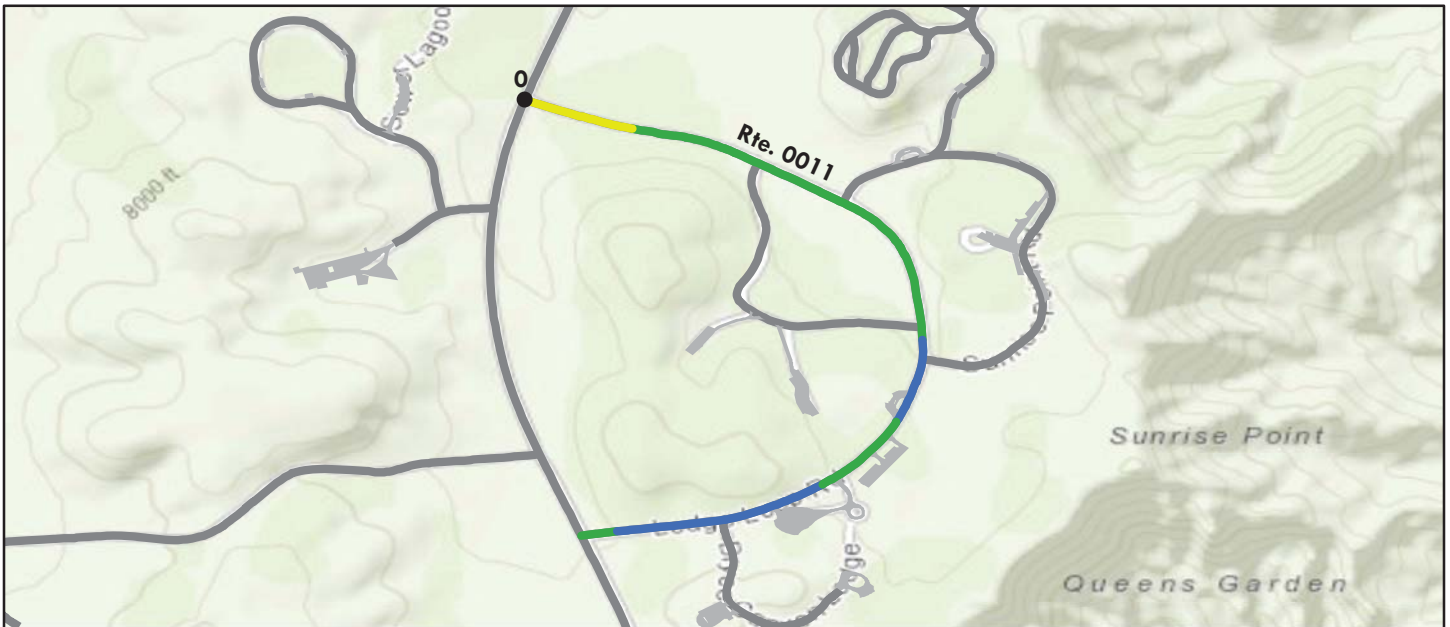
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.13	Section Length (MI)	0.13			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	93				
Surface Condition Rating (SCR)	93	93				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	93	93				
Alligator Crack Index	100	100				
Longitudinal Crack Index	93	93				
Transverse Cracking Index	94	94				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	19.2	19.2				
Lane Width (ft)	14.8	14.8				

Bryce Canyon National Park

ROUTE 0011: LODGE LOOP ROAD

Data Collection Vehicle (DCV) Rating



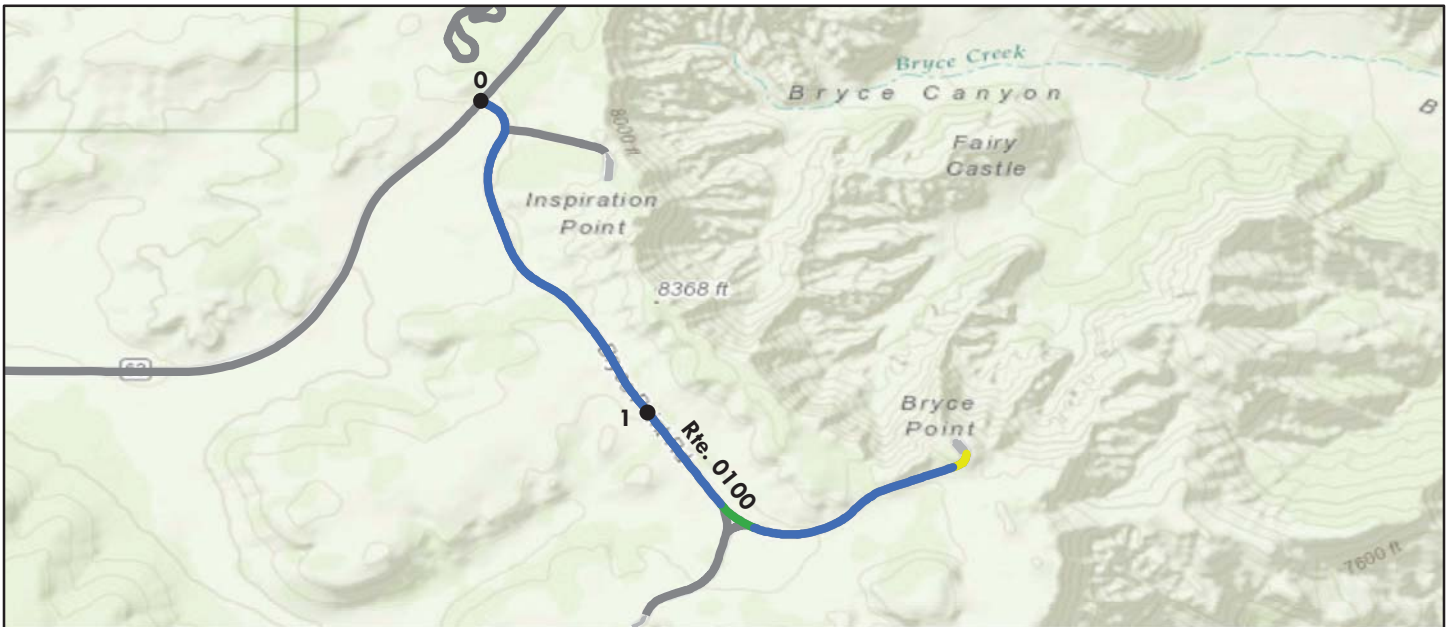
Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.93	Section Length (MI)	0.93				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	92	92				
Surface Condition Rating (SCR)	95	95				
Roughness Condition Index (RCI)	88	88				
Distress Index Values						
Structural Crack Index	97	97				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	95	95				
Patching Index	98	98				
Rutting Index	99	99				
International Roughness Index (IRI)	147	147				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	23.7	23.7				
Lane Width (ft)	10.3	10.3				

Bryce Canyon National Park

ROUTE 0100: BRYCE POINT ACCESS ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0	1			
Paved Length (Miles): 1.95	Section Length (MI)	1	0.95			
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99	99			
Surface Condition Rating (SCR)	99	99	98			
Roughness Condition Index (RCI)	100	100	100			
Distress Index Values						
Structural Crack Index	100	100	99			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	100	100	99			
Transverse Cracking Index	99	100	98			
Patching Index	100	100	100			
Rutting Index	99	99	99			
International Roughness Index (IRI)	109	107	111			
Lane & Width Information						
Number of Lanes	2	2	2			
Paved Width (ft)	23.4	24.3	22.5			
Lane Width (ft)	10	10.2	9.9			

Bryce Canyon National Park

ROUTE 0200: FAIRYLAND ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.97	Section Length (MI)	0.97			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	77	77				
Surface Condition Rating (SCR)	82	82				
Roughness Condition Index (RCI)	69	69				
Distress Index Values						
Structural Crack Index	82	82				
Alligator Crack Index	100	100				
Longitudinal Crack Index	82	82				
Transverse Cracking Index	84	84				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	205	205				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22.5	22.5				
Lane Width (ft)	10.3	10.3				

Bryce Canyon National Park

ROUTE 0201: NORTH CAMPGROUND ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.61	Section Length (MI)	0.61				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	56	56				
Surface Condition Rating (SCR)	79	79				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	79	79				
Alligator Crack Index	89	89				
Longitudinal Crack Index	90	90				
Transverse Cracking Index	93	93				
Patching Index	96	96				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	21.3	21.3				
Lane Width (ft)	10.1	10.1				

Badly degraded Asphalt from MP 0.30 to MP 0.48.

Bryce Canyon National Park

ROUTE 0201AA: NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.29	Section Length (MI)	0.29				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18.7	18.7				
Lane Width (ft)	18.7	18.7				

Bryce Canyon National Park

ROUTE 0201AB: NORTH CAMPGROUND LOOP ROAD A, CONNECTOR

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

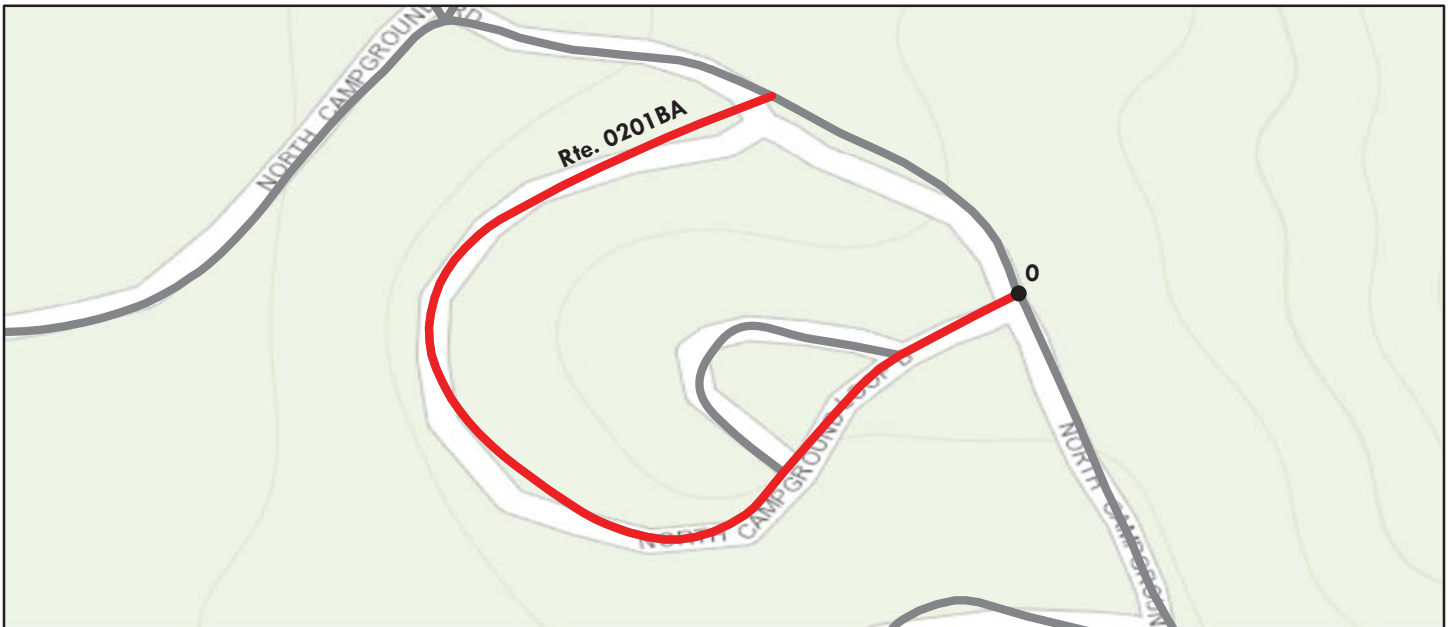
Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.07	Section Length (MI)	0.07			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	22	22				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	19.7	19.7				
Lane Width (ft)	19.7	19.7				

Only a very small portion of the road received a condition rating. No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0201BA: NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

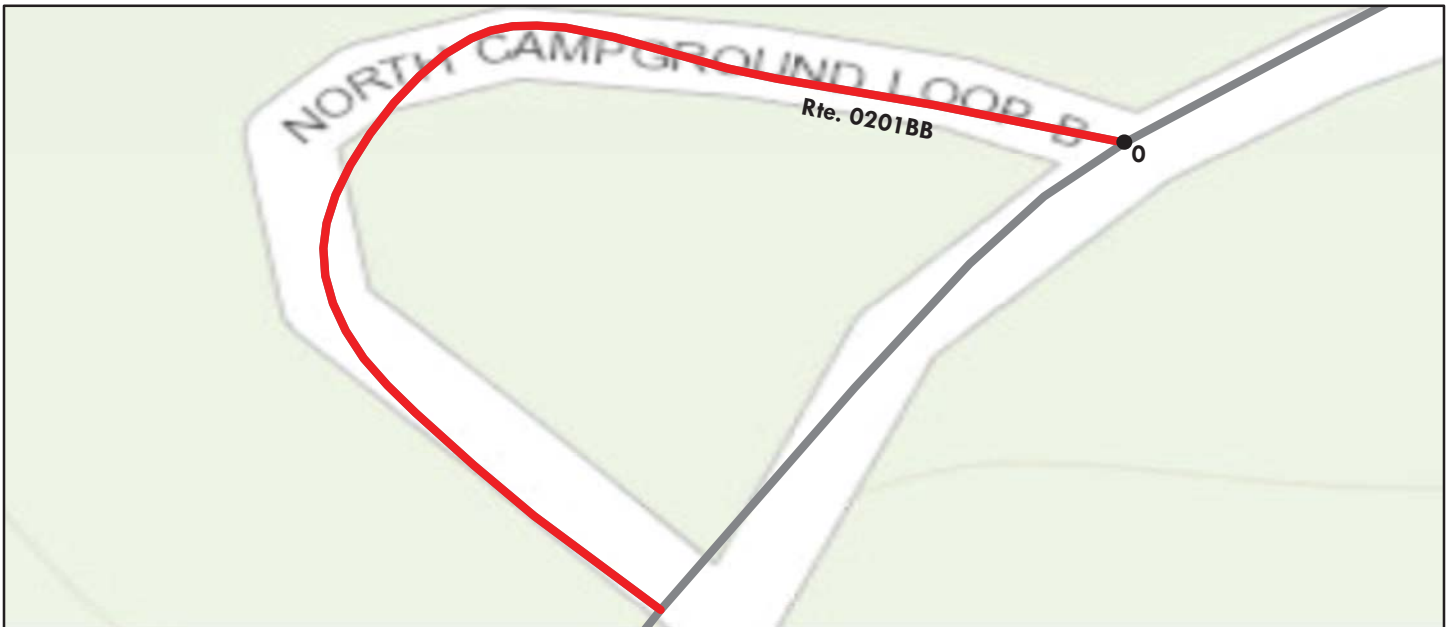
Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.17	Section Length (MI)	0.17			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	14	14				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	23	23				
Lane Width (ft)	23	23				

Only a very small portion of the road received a condition rating. No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0201BB: NORTH CAMPGROUND LOOP ROAD B

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.04	Section Length (MI)	0.04			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	41	41				
Surface Condition Rating (SCR)	41	41				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	41	41				
Alligator Crack Index	99	99				
Longitudinal Crack Index	42	42				
Transverse Cracking Index	48	48				
Patching Index	98	98				
Rutting Index	80	80				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.3	15.3				
Lane Width (ft)	15.3	15.3				

Bryce Canyon National Park

ROUTE 0201C: NORTH CAMPGROUND LOOP ROAD C

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

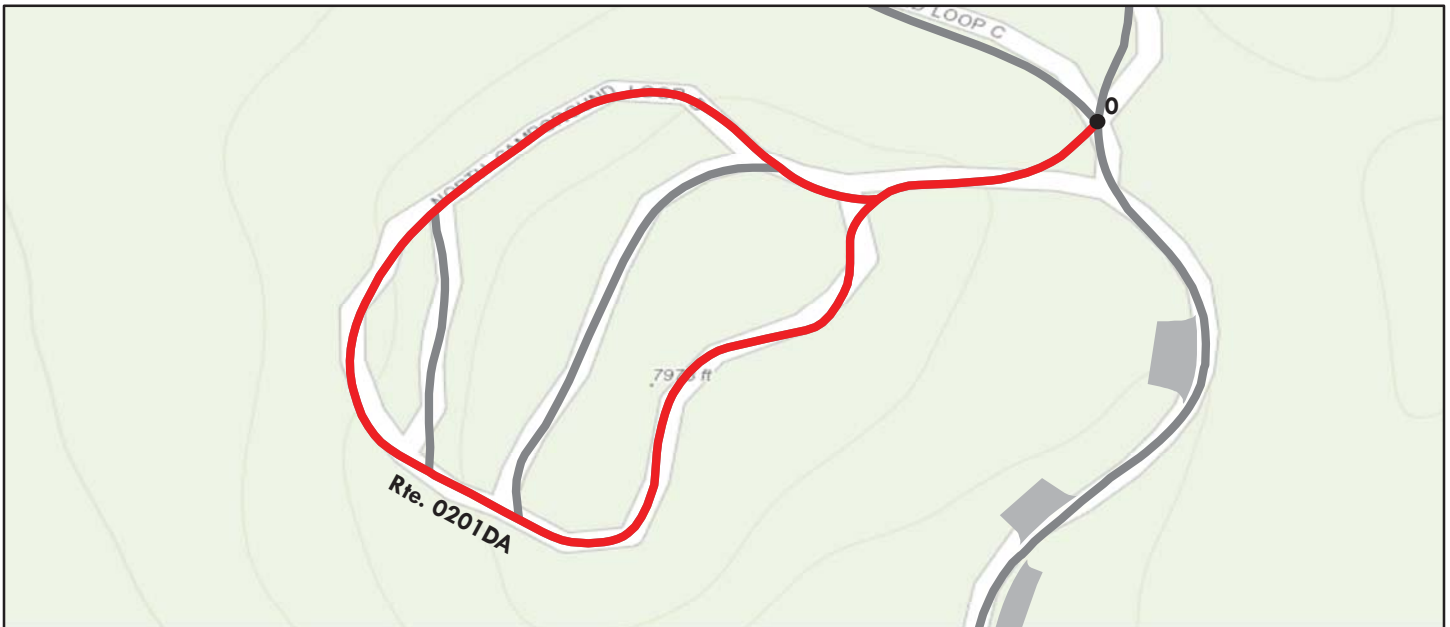
Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.14	Section Length (MI)	0.14				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	10.3	10.3				
Lane Width (ft)	10.3	10.3				

No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0201DA: NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)							
Poor (0 - 60)		Fair (61- 84)		Good (85 - 94)		Excellent (95 - 100)	Not Rated
See Appendix for definitions and formulas							
Inspection Date:	11/6/2016	Beginning Section MP	0				
Paved Length (Miles):	0.32	Section Length (MI)	0.32				
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)		0	0				
Surface Condition Rating (SCR)		N/A	N/A				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		N/A	N/A				
Longitudinal Crack Index		N/A	N/A				
Transverse Cracking Index		N/A	N/A				
Patching Index		N/A	N/A				
Rutting Index		N/A	N/A				
International Roughness Index (IRI)		N/A	N/A				
Lane & Width Information							
Number of Lanes		1	1				
Paved Width (ft)		13.6	13.6				
Lane Width (ft)		12.3	12.3				

No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0201DB: NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #1

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

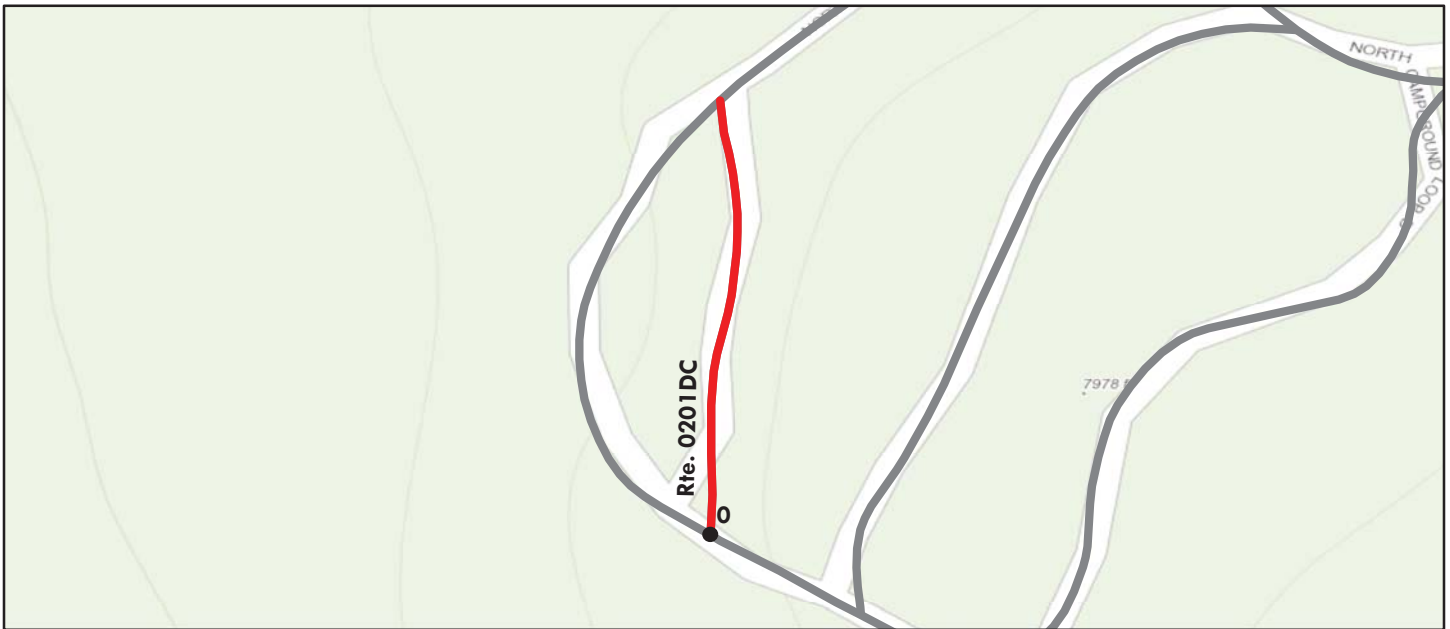
Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.09	Section Length (MI)	0.09				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	13.7	13.7				
Lane Width (ft)	13.7	13.7				

No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0201DC: NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #2

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

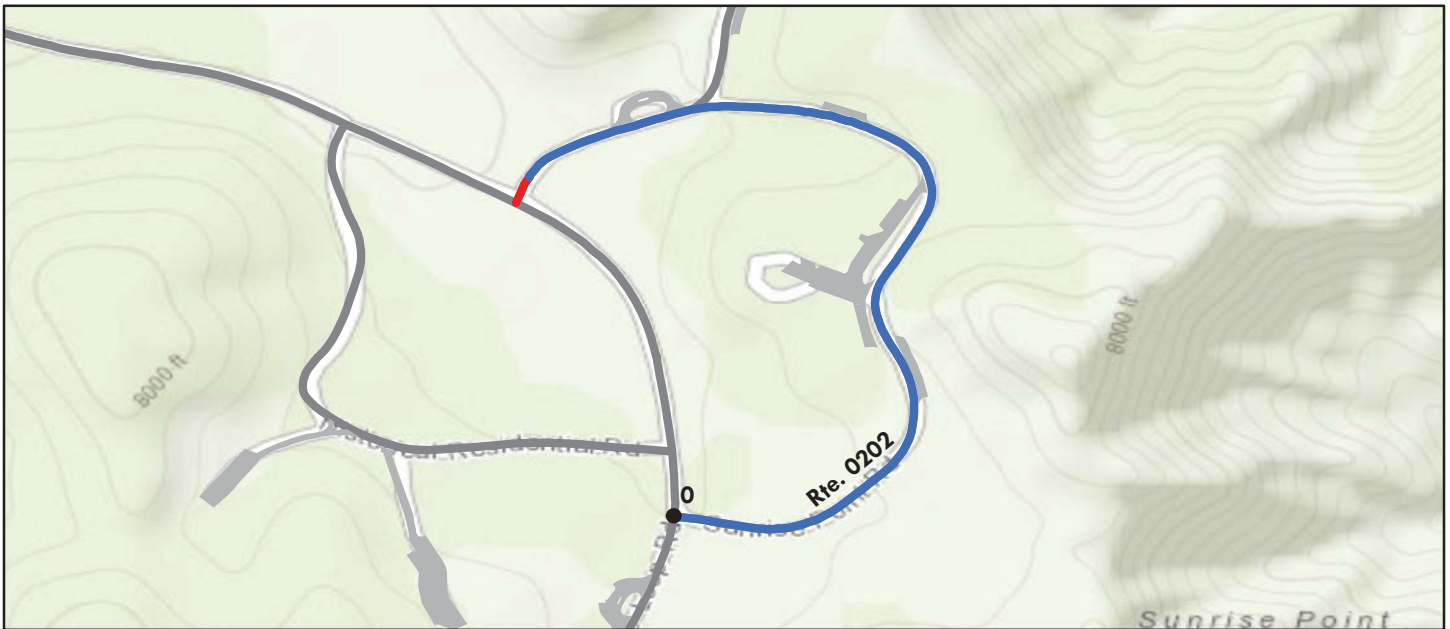
Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.05	Section Length (MI)	0.05				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	9.7	9.7				
Lane Width (ft)	9.7	9.7				

No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0202: SUNRISE POINT ACCESS ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.51	Section Length (MI)	0.51			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	23.7	23.7				
Lane Width (ft)	15.8	15.8				

Bryce Canyon National Park

ROUTE 0203: SUNSET POINT ACCESS ROAD

Data Collection Vehicle (DCV) Rating



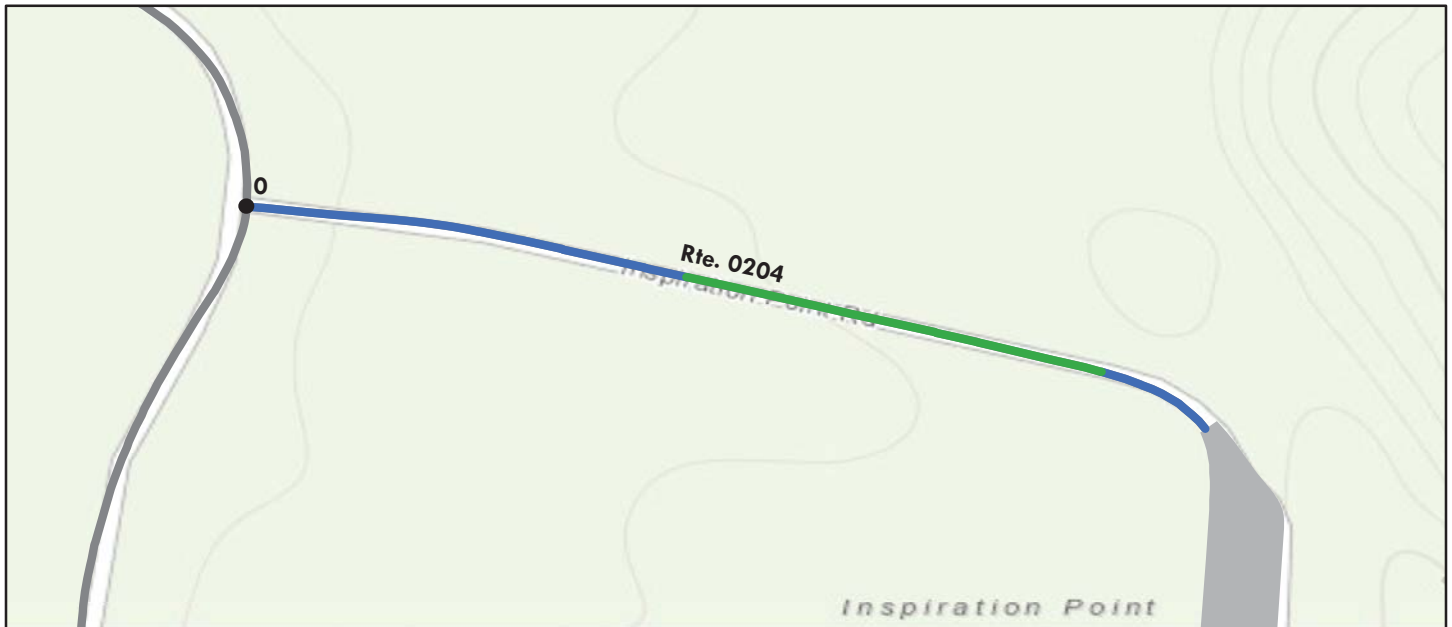
Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.15	Section Length (MI)	0.15			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	97				
Surface Condition Rating (SCR)	97	97				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	24.6	24.6				
Lane Width (ft)	10.6	10.6				

Bryce Canyon National Park

ROUTE 0204: INSPIRATION POINT ACCESS ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.23	Section Length (MI)	0.23			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	96	96				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	23.5	23.5				
Lane Width (ft)	10.2	10.2				

Bryce Canyon National Park

ROUTE 0205ZZ: PARIA VIEW ACCESS ROAD AND SPUR

Summary Route



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016					
Paved Length (Miles):	0.43					
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	98					
Lane & Width Information						
Number of Lanes	2					
Paved Width (ft)	22.7					
Lane Width (ft)	9.5					

Bryce Canyon National Park

ROUTE 0205AZ: PARIA VIEW ACCESS ROAD

Subcomponent of Route BRCA-0205ZZ
 Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.38	Section Length (MI)	0.38				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	23.1	23.1				
Lane Width (ft)	9.7	9.7				

Bryce Canyon National Park

ROUTE 0205BZ: PARIA VIEW ACCESS SPUR

Subcomponent of Route BRCA-0205ZZ
 Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.05	Section Length (MI)	0.05				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	93				
Surface Condition Rating (SCR)	93	93				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	94	94				
Patching Index	100	100				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	19.2	19.2				
Lane Width (ft)	7.8	7.8				

Bryce Canyon National Park

ROUTE 0206: SUNSET CAMPGROUND ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.32	Section Length (MI)	0.32			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	18	18				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	17.2	17.2				
Lane Width (ft)	8.6	8.6				

Only a very small portion of the road received a condition rating. No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0206A: SUNSET CAMPGROUND ROAD LOOP A

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.43	Section Length (MI)	0.43			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	10.3	10.3				
Lane Width (ft)	10.3	10.3				

No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0206B: SUNSET CAMPGROUND ROAD LOOP B

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.20	Section Length (MI)	0.20			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	9.6	9.6				
Lane Width (ft)	9.6	9.6				

No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0206C: SUNSET CAMPGROUND ROAD LOOP C

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

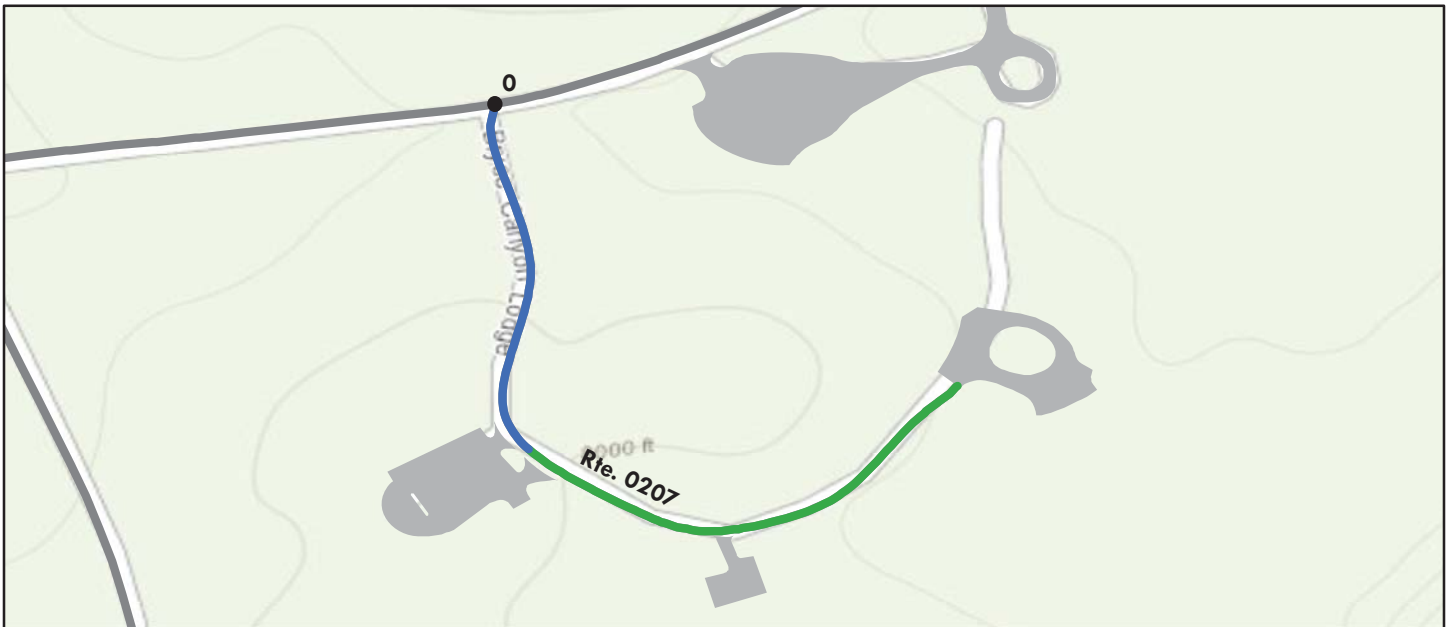
Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.25	Section Length (MI)	0.25				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	N/A	N/A				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	9.7	9.7				
Lane Width (ft)	9.7	9.7				

No distress indices are reported due to badly degraded asphalt where a manual PCR of 0 was recorded.

Bryce Canyon National Park

ROUTE 0207: LODGE ACCESS ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.22	Section Length (MI)	0.22				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	95				
Surface Condition Rating (SCR)	95	95				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	97	97				
Patching Index	95	95				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	18.6	18.6				
Lane Width (ft)	9.6	9.6				

Bryce Canyon National Park

ROUTE 0400: HISTORIC HOUSING DISTRICT ACCESS ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date:	11/6/2016	Beginning Section MP	0			
Paved Length (Miles):	0.34	Section Length (MI)	0.34			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	85	85				
Surface Condition Rating (SCR)	85	85				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	85	85				
Alligator Crack Index	100	100				
Longitudinal Crack Index	85	85				
Transverse Cracking Index	88	88				
Patching Index	98	98				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	19.7	19.7				
Lane Width (ft)	9.9	9.9				

Bryce Canyon National Park

ROUTE 0401: MIXING CIRCLE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas

Inspection Date:	11/6/2016	Beginning Section MP	0				
Paved Length (Miles):	0.64	Section Length (MI)	0.64				
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)	82	82					
Surface Condition Rating (SCR)	80	80					
Roughness Condition Index (RCI)	86	86					
Distress Index Values							
Structural Crack Index	80	80					
Alligator Crack Index	100	100					
Longitudinal Crack Index	80	80					
Transverse Cracking Index	93	93					
Patching Index	100	100					
Rutting Index	97	97					
International Roughness Index (IRI)	153	153					
Lane & Width Information							
Number of Lanes	2	2					
Paved Width (ft)	19.7	19.7					
Lane Width (ft)	9.9	9.9					

Bryce Canyon National Park

ROUTE 0402: HOUSING LOOP ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)									
Poor (0 - 60)		Fair (61- 84)		Good (85 - 94)		Excellent (95 - 100)		Not Rated	
See Appendix for definitions and formulas									
Inspection Date:	11/6/2016	Beginning Section MP	0						
Paved Length (Miles):	0.48	Section Length (MI)	0.48						
Surface Type:	ASPHALT	Route Summary							
Roadway Condition Information									
Pavement Condition Rating (PCR)		83	83						
Surface Condition Rating (SCR)		83	83						
Roughness Condition Index (RCI)		N/A	N/A						
Distress Index Values									
Structural Crack Index		100	100						
Alligator Crack Index		100	100						
Longitudinal Crack Index		100	100						
Transverse Cracking Index		100	100						
Patching Index		83	83						
Rutting Index		93	93						
International Roughness Index (IRI)		N/A	N/A						
Lane & Width Information									
Number of Lanes		2	2						
Paved Width (ft)		19.8	19.8						
Lane Width (ft)		9.9	9.9						

Bryce Canyon National Park

ROUTE 0411: MAINTENANCE COMPLEX ROAD

Data Collection Vehicle (DCV) Rating



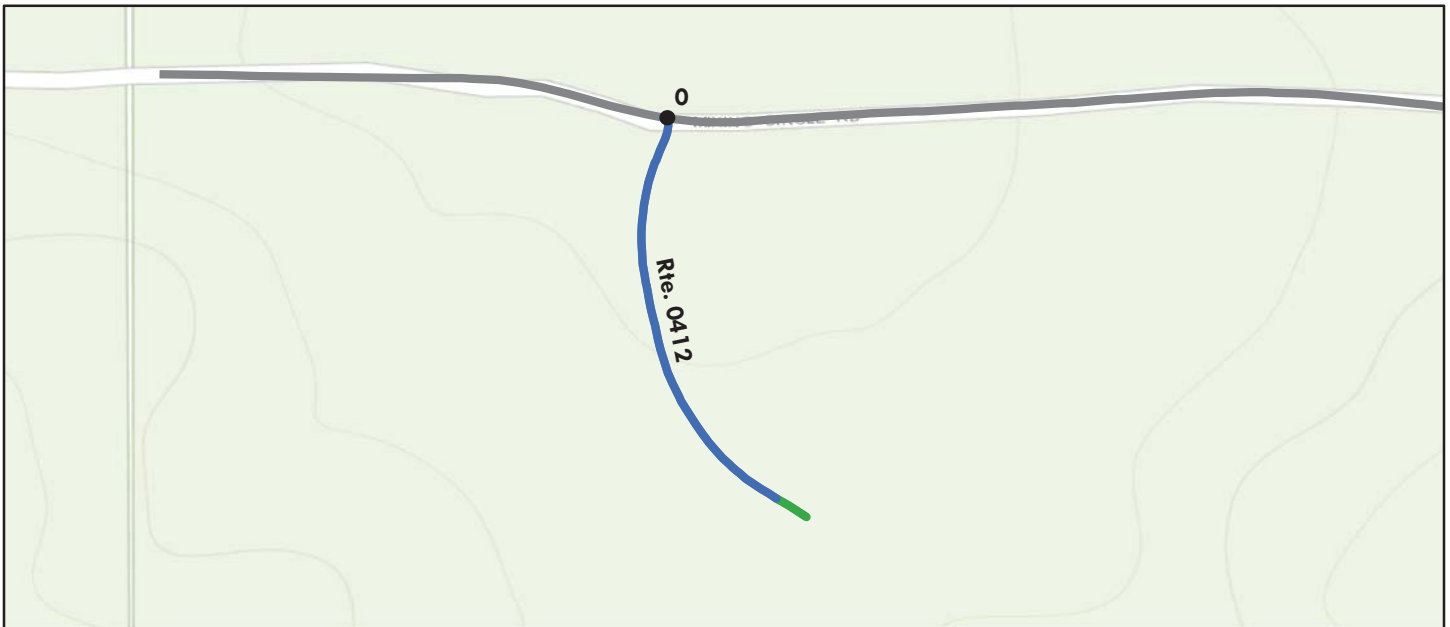
Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.10	Section Length (MI)	0.10				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	81	81				
Surface Condition Rating (SCR)	81	81				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	81	81				
Alligator Crack Index	100	100				
Longitudinal Crack Index	81	81				
Transverse Cracking Index	86	86				
Patching Index	99	99				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	27.5	27.5				
Lane Width (ft)	13.8	13.8				

Bryce Canyon National Park

ROUTE 0412: BONE YARD ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 11/6/2016	Beginning Section MP	0				
Paved Length (Miles): 0.11	Section Length (MI)	0.11				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	24.1	24.1				
Lane Width (ft)	12.2	12.2				

Section 6 Paved Parking Area Condition Rating Sheets



Bryce Canyon National Park



**Federal Lands Highway
Road Inventory Program**

Bryce Canyon National Park

ROUTE 0900: FAIRYLAND PARKING

Manual Rating

FROM END OF ROUTE 0200 (FAIRYLAND ROAD)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	45905	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
22,236	0.383	10	DO NOTHING
Curb Type		Curb & Gutter Type	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

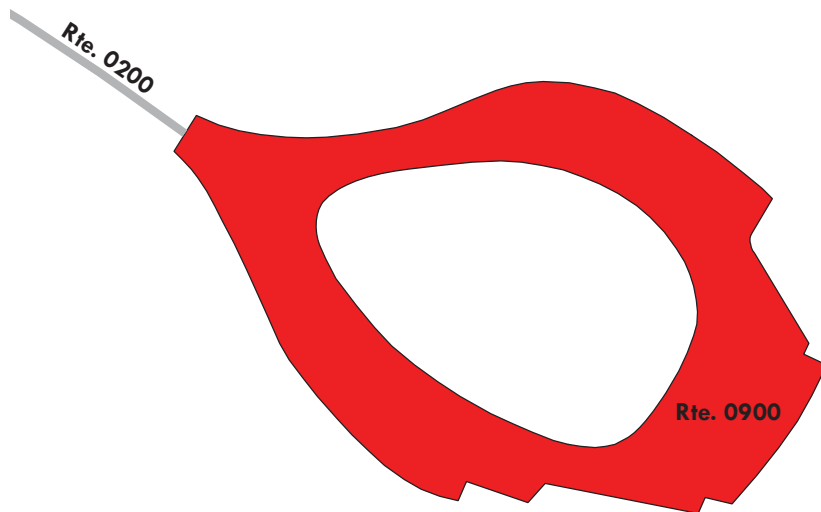
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0901: VC ADMINISTRATION PARKING

Manual Rating

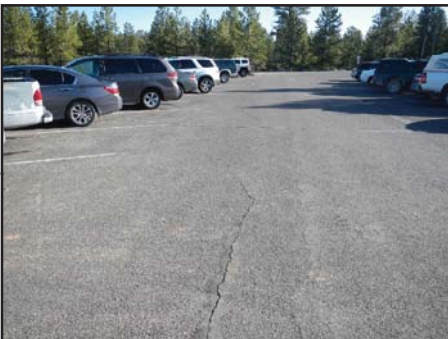
FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 1.14 ON RIGHT
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	45916	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
33,404	0.575	6	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
ASPHALT		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0902: VISITOR CENTER PARKING

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 1.26 ON RIGHT

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	45918	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
43,044	0.741	1	DO NOTHING
Curb Type		Curb & Gutter Type	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

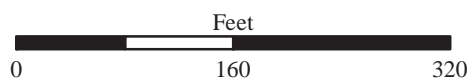
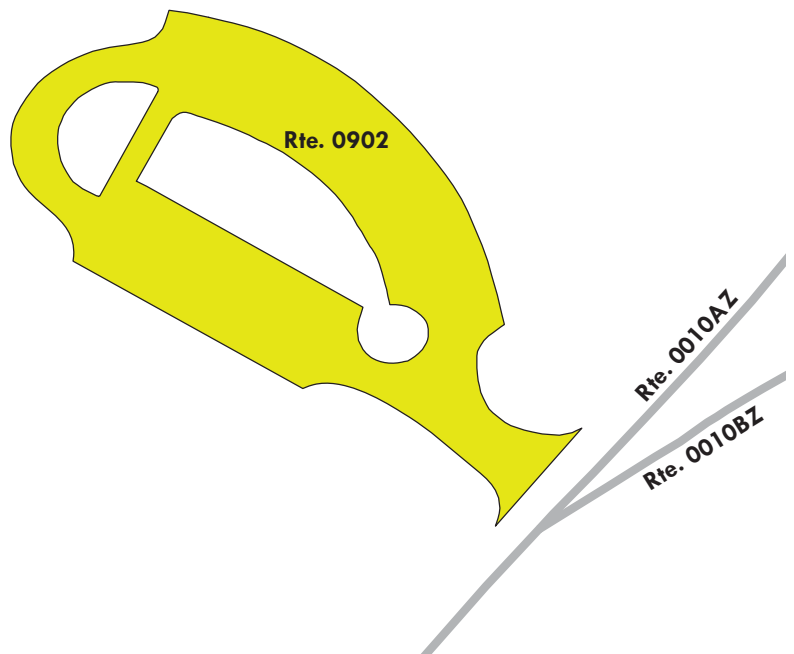
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0903: SUNRISE POINT PARKING

Manual Rating

ADJACENT TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD) ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46283	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,519	0.078	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

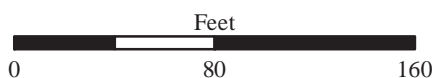
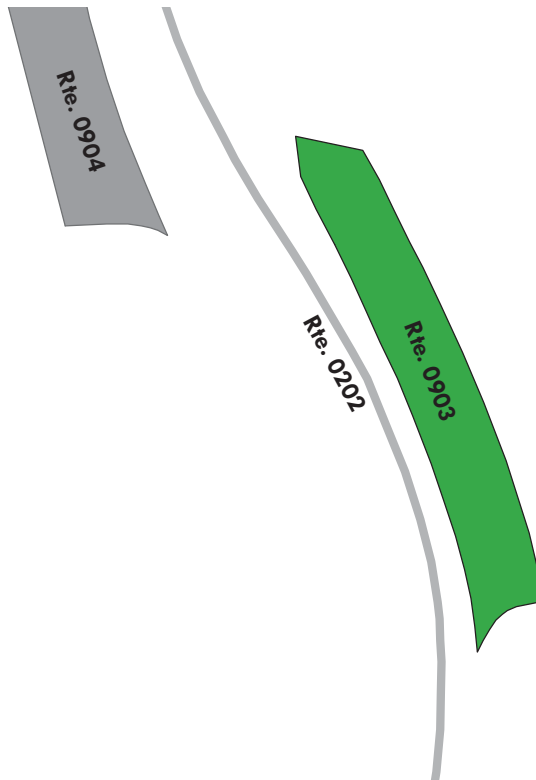
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0904: HPI PARKING

Manual Rating

ADJACENT TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD) ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46285	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,441	0.059	4	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

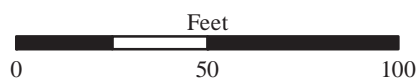
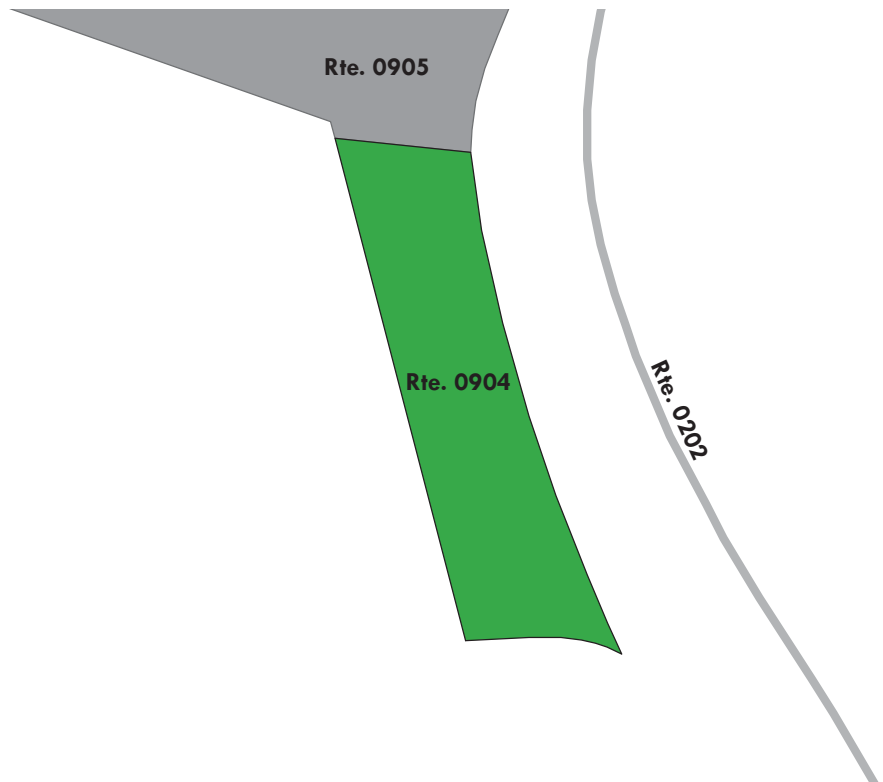
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0905: GENERAL STORE PARKING

Manual Rating

FROM ROUTE 0202 (SUNRISE POINT ACCESS ROAD) AT MP 0.22 ON LEFT

TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46287	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
26,279	0.452	5	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE AND STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

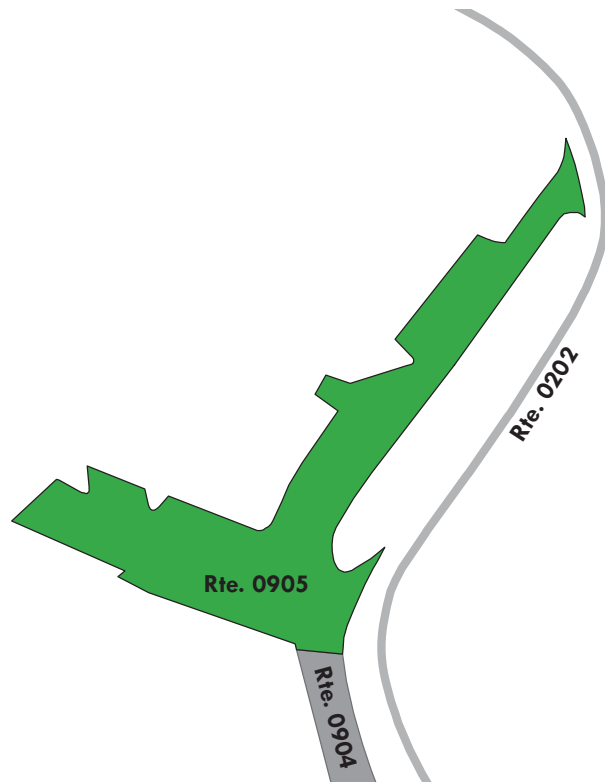
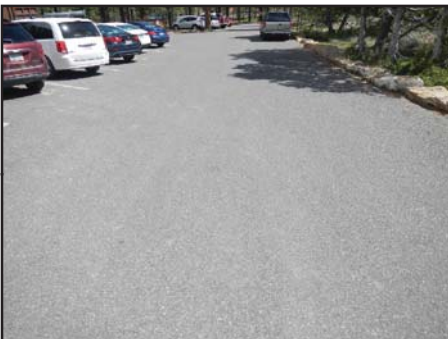
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0906: OUTDOOR THEATRE PARKING

Manual Rating

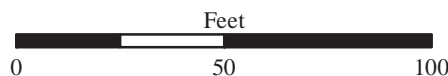
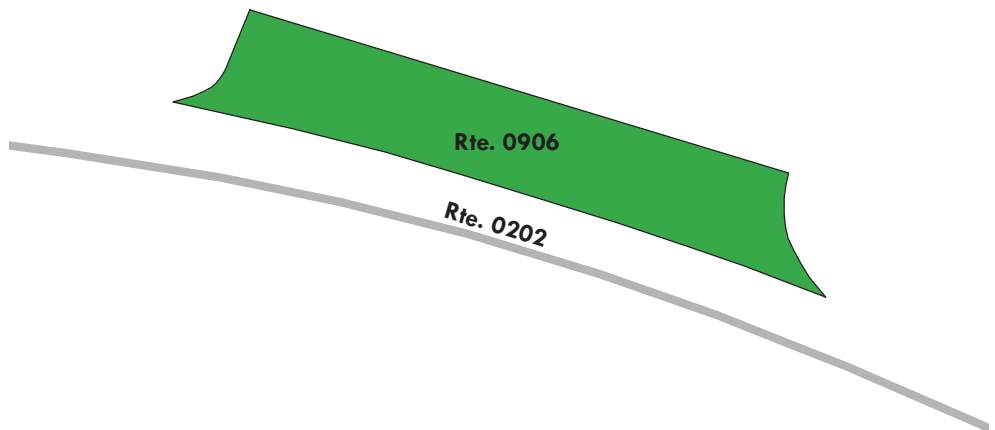
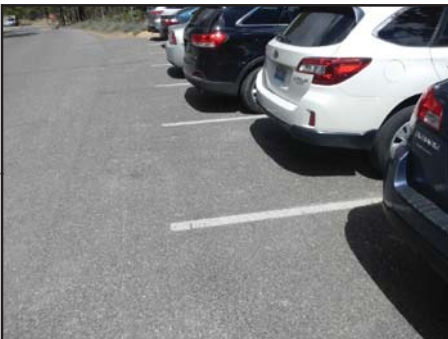
ADJACENT TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD) ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	45958	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,712	0.047	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0907: DUMP STATION PARKING

Manual Rating

FROM ROUTE 0202 (SUNRISE POINT ACCESS ROAD)

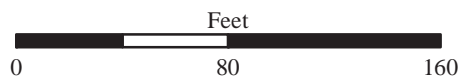
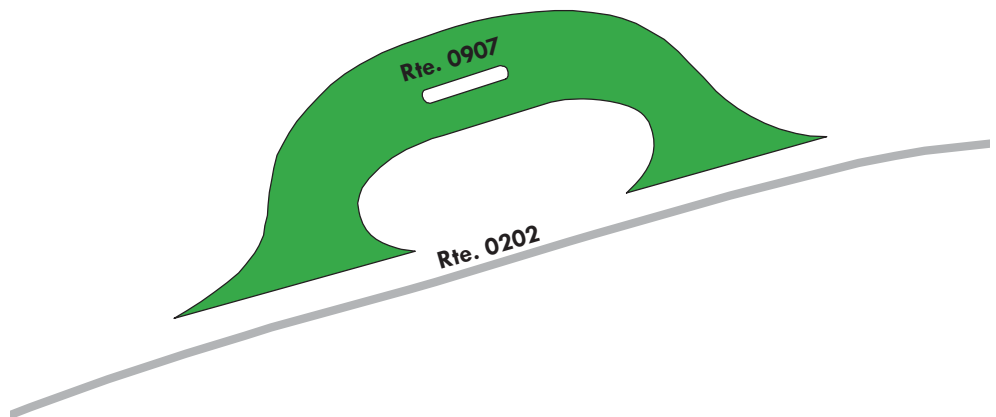
TO ROUTE 0202 (SUNRISE POINT ACCESS ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	45959	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
6,499	0.112	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0908: SERVICE STATION PARKING

Manual Rating

FROM ROUTE 0011 (LODGE LOOP ROAD)

TO ROUTE 0011 (LODGE LOOP ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	45974	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,652	0.166	5	DO NOTHING
Curb Type		Curb & Gutter Type	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

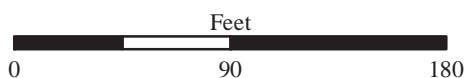
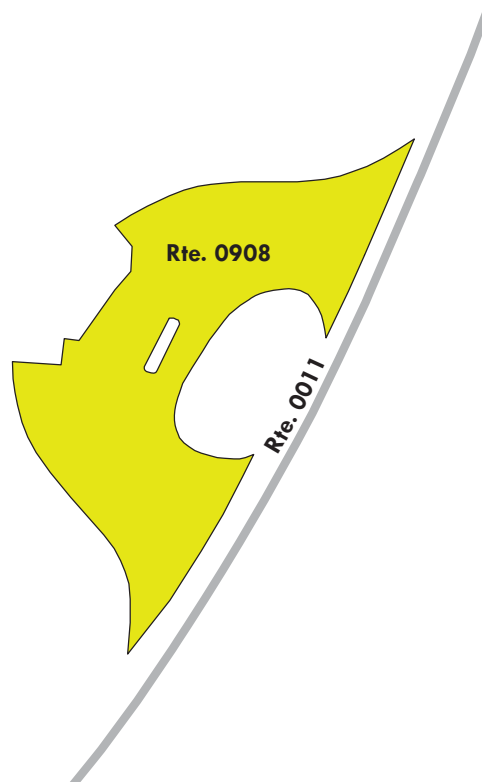
Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Parking area consists of multiple surface types: 1 part Asphalt at 8,663 square feet; 1 part Concrete at 989 square feet.



Bryce Canyon National Park

ROUTE 0909: SUNRISE MOTEL PARKING

Manual Rating

FROM ROUTE 0011 (LODGE LOOP ROAD)

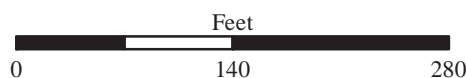
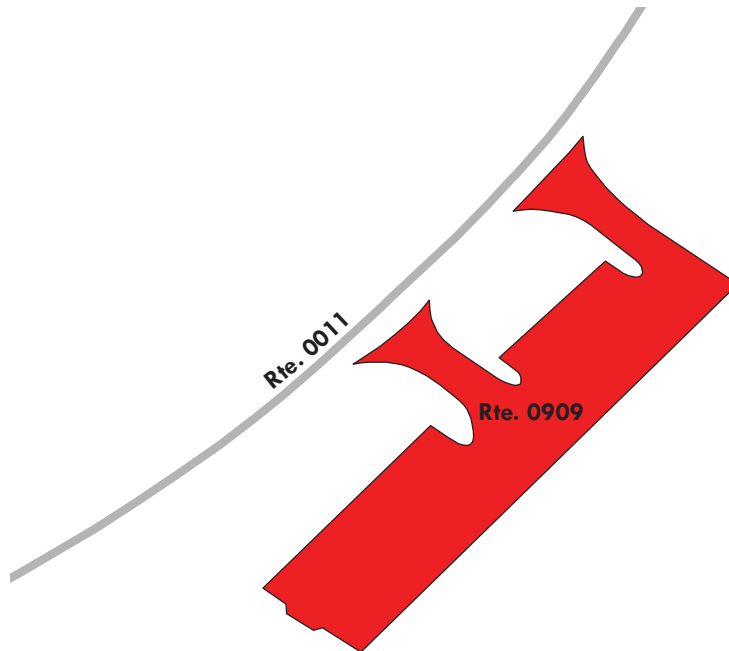
TO ROUTE 0011 (LODGE LOOP ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46202	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
22,278	0.384	5	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0910: LODGE PARKING

Manual Rating

FROM ROUTE 0011 (LODGE LOOP ROAD)

TO ROUTE 0011 (LODGE LOOP ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46199	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
42,168	0.726	5	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

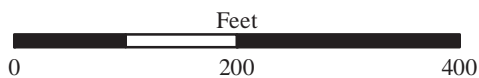
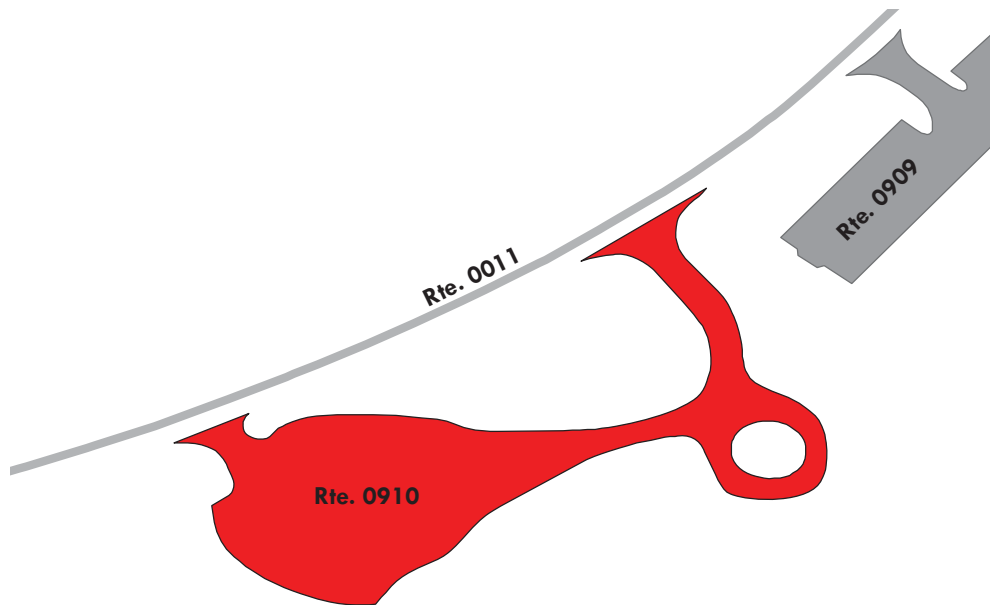
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0911: SUNSET MOTEL PARKING

Manual Rating

FROM ROUTE 0207 (LODGE ACCESS ROAD)

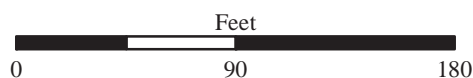
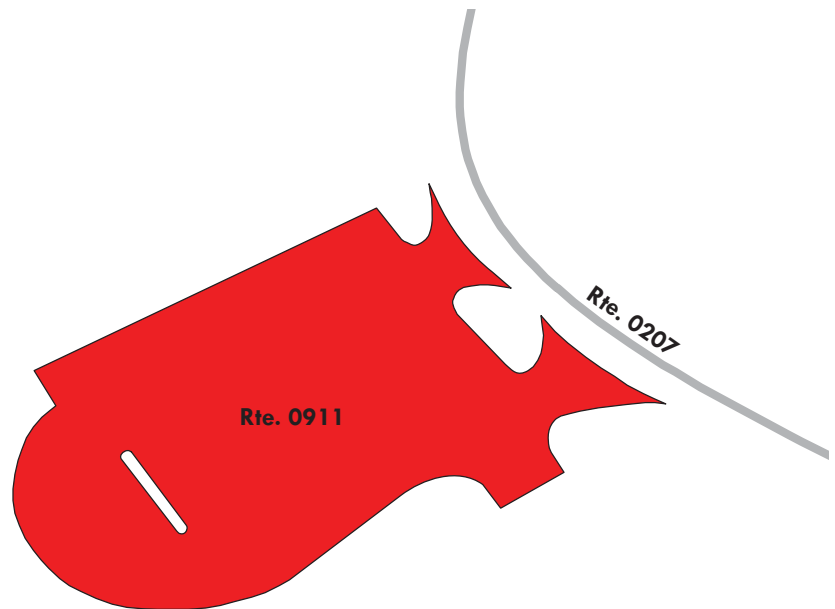
TO ROUTE 0207 (LODGE ACCESS ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46254	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
18,844	0.324	5	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0912: WESTERN CABIN PARKING AREA WEST

Manual Rating

FROM ROUTE 0207 (LODGE ACCESS ROAD)

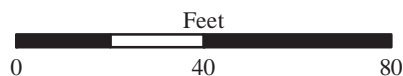
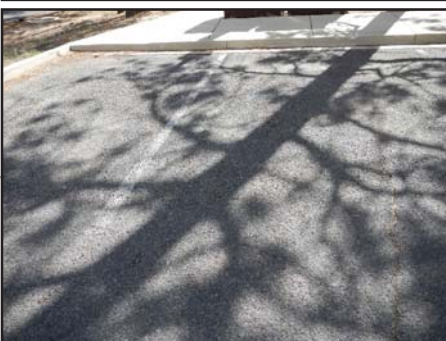
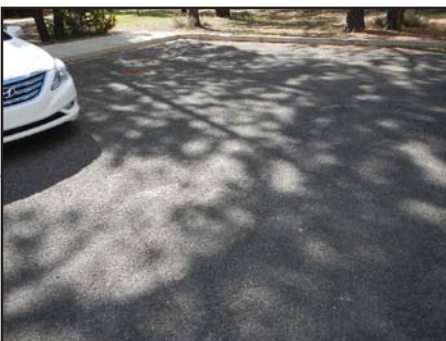
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46255	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,125	0.071	6	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0913: WESTERN CABIN PARKING AREA NORTH

Manual Rating

FROM END OF ROUTE 0207 (LODGE ACCESS ROAD)

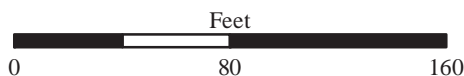
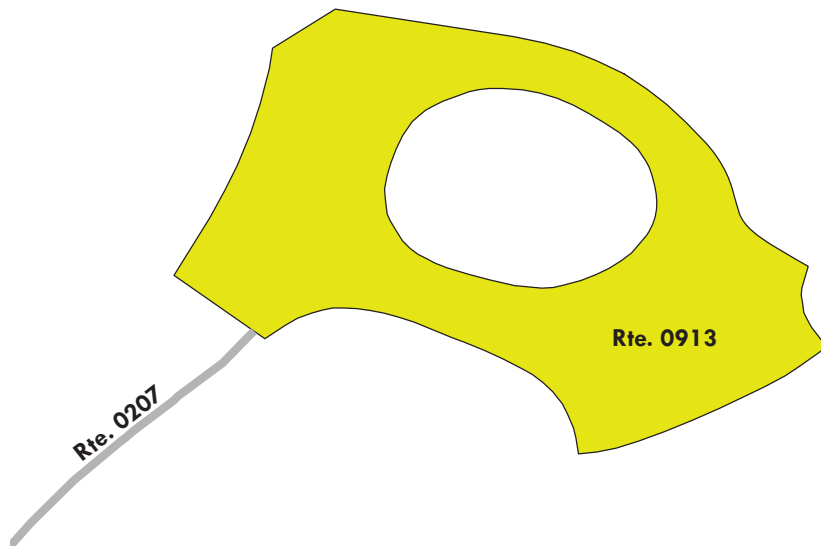
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46258	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
13,868	0.239	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0916A: PONDEROSA AND WHISPERING PINES DORMITORIES PARKING

Manual Rating

FROM ROUTE 0400 (HISTORIC HOUSING DISTRICT ACCESS ROAD)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46262	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
24,392	0.42	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

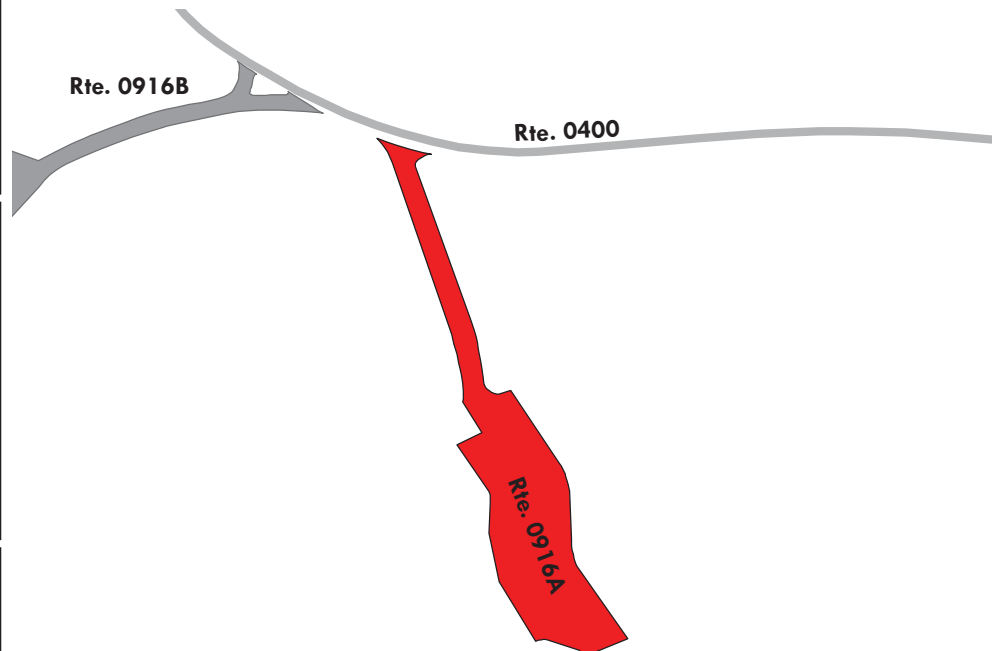
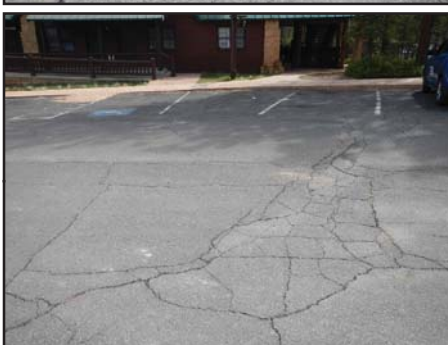
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0916B: HS4 AND MANZANITA DORMITORY PARKING

Manual Rating

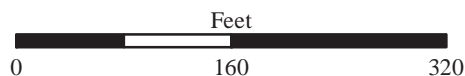
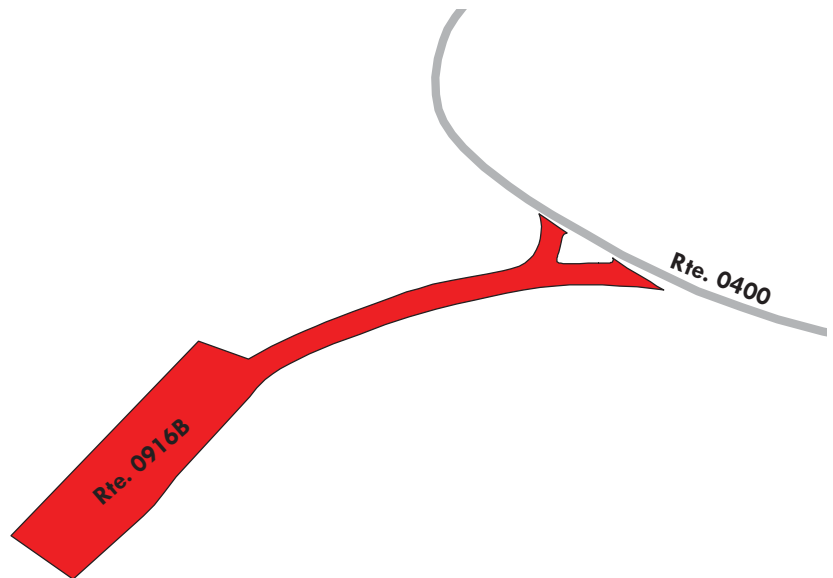
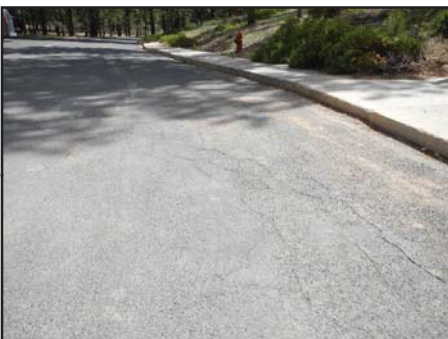
FROM ROUTE 0400 (HISTORIC HOUSING DISTRICT ACCESS ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91737	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
14,046	0.242	5	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0917: APARTMENT / PICNIC AREA PARKING

Manual Rating

FROM ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD)

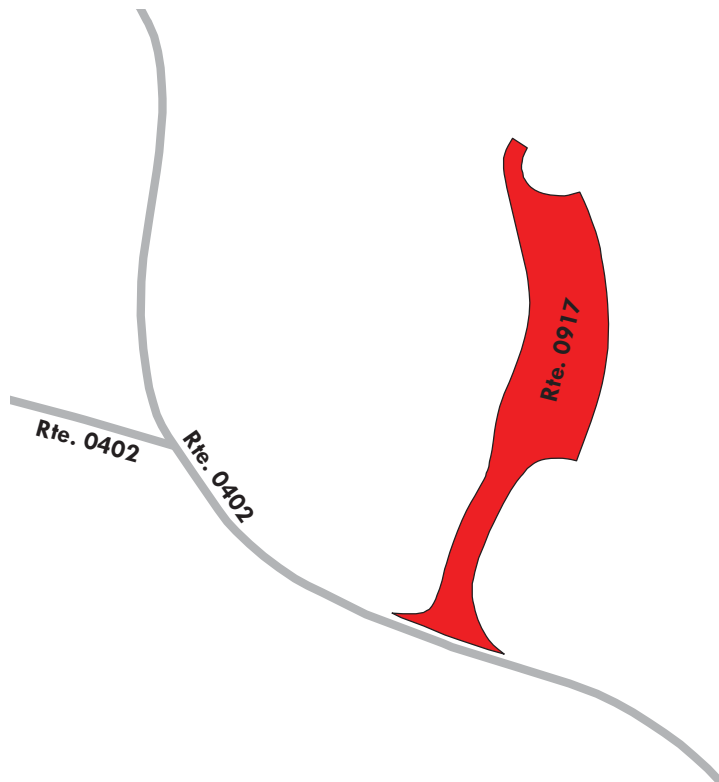
TO ROUTE 0409 (SEWER LAGOON ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46342	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
15,137	0.261	8	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0918: SUNSET POINT PARKING

Manual Rating

FROM END OF ROUTE 0203 (SUNSET POINT ACCESS ROAD)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46459	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
59,306	1.021	3	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

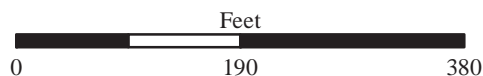
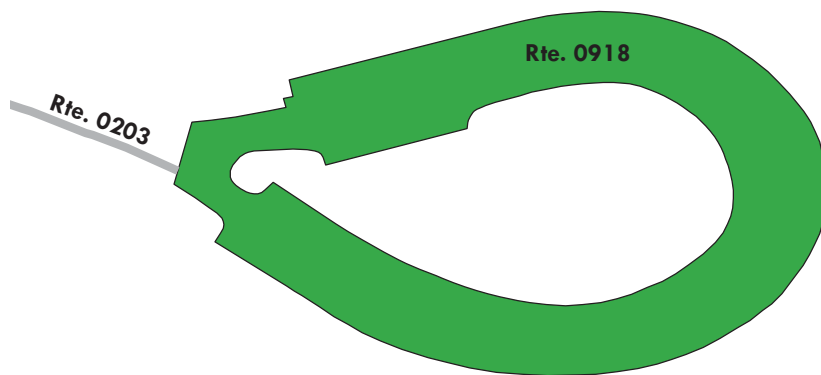
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0919: BRYCE POINT PARKING

Manual Rating

FROM END OF ROUTE 0100 (BRYCE POINT ACCESS ROAD)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46470	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
26,616	0.458	3	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE AND STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

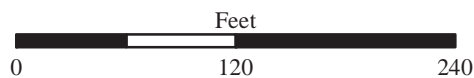
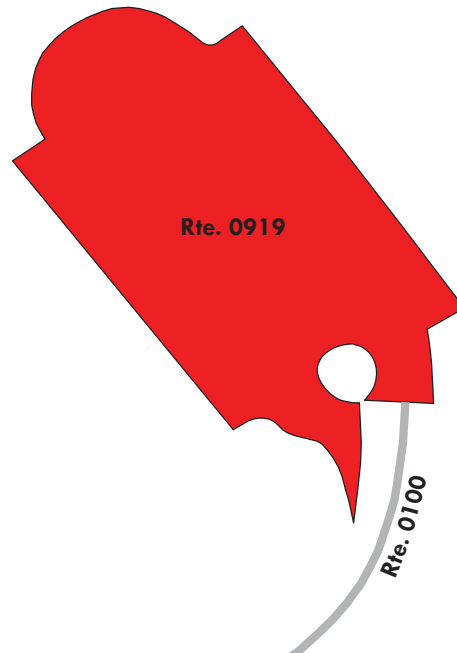
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0920: PARIA POINT PARKING

Manual Rating

FROM END OF ROUTE 0205ZZ (PARIA VIEW ACCESS ROAD AND SPUR)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46478	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
12,734	0.219	5	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
ASPHALT AND CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

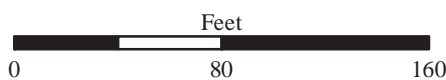
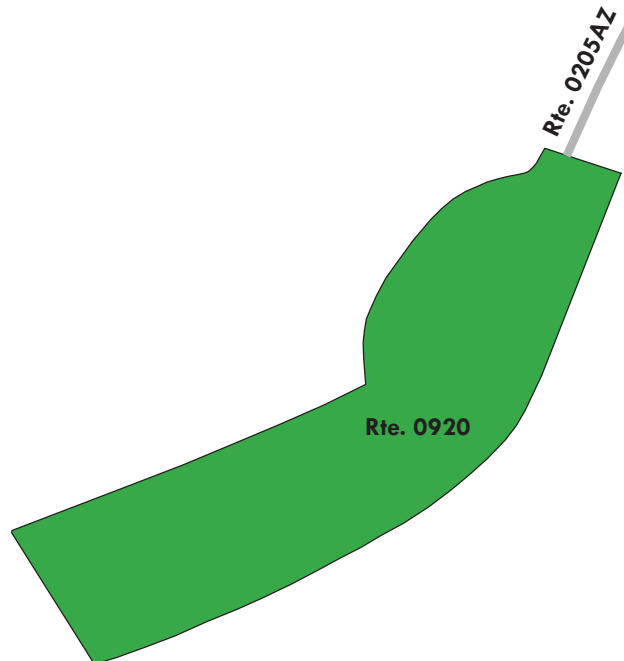
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0921: INSPIRATION POINT PARKING

Manual Rating

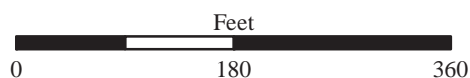
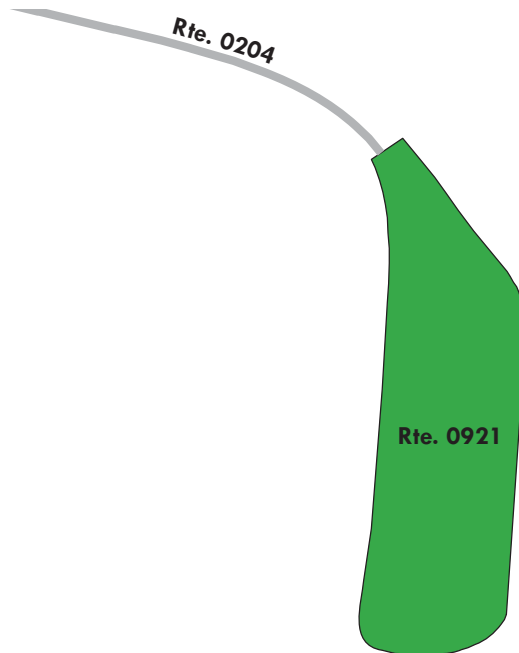
FROM END OF ROUTE 0204 (INSPIRATION POINT ACCESS ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46466	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
33,767	0.581	6	DO NOTHING
Curb Type		Curb & Gutter Type	
ASPHALT		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0922: FAIRVIEW POINT PARKING

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 10.81

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46460	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
46,789	0.806	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

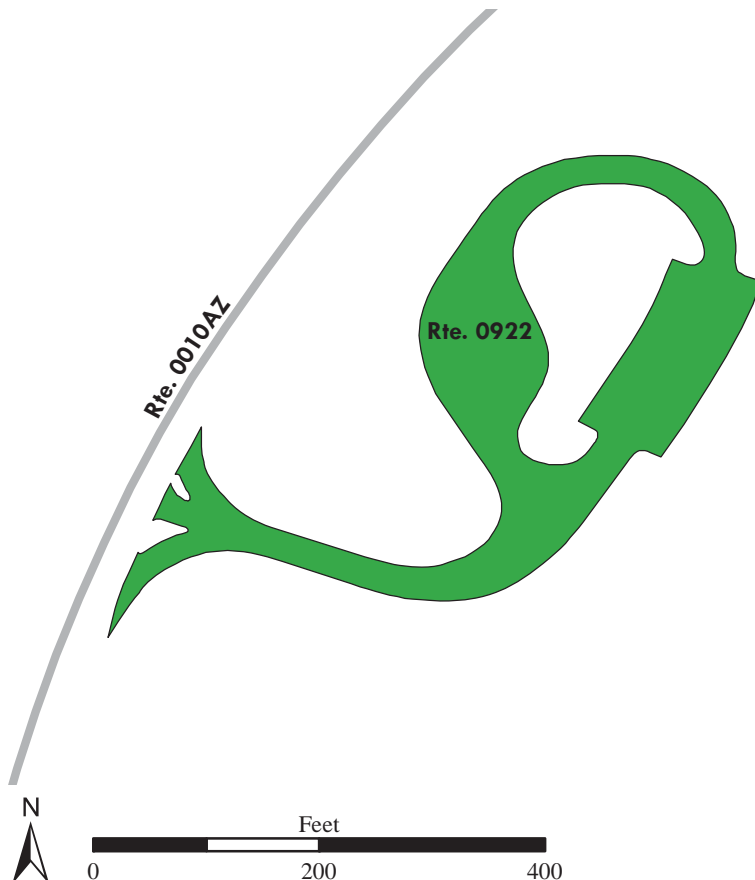
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0923: NATURAL BRIDGE PARKING

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 12.58

TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 12.66

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46454	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
24,299	0.418	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

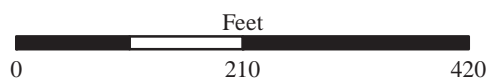
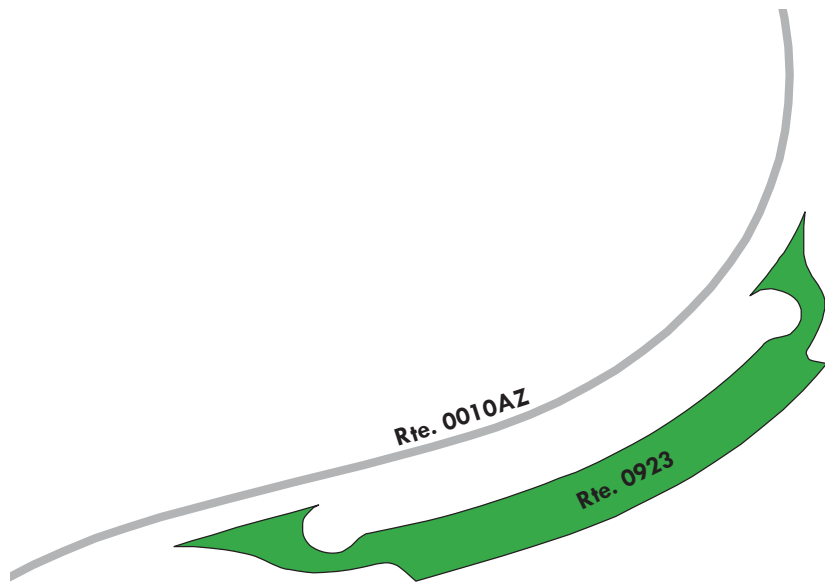
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0924: AGUA CANYON PARKING

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 14.04

TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 14.09

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46453	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
11,375	0.196	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

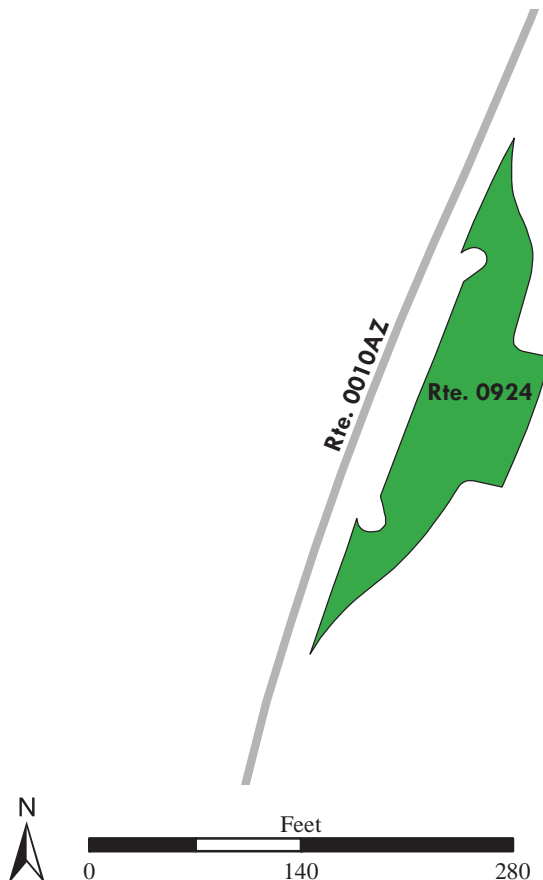
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0925: PONDEROSA POINT PARKING

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.06

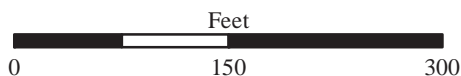
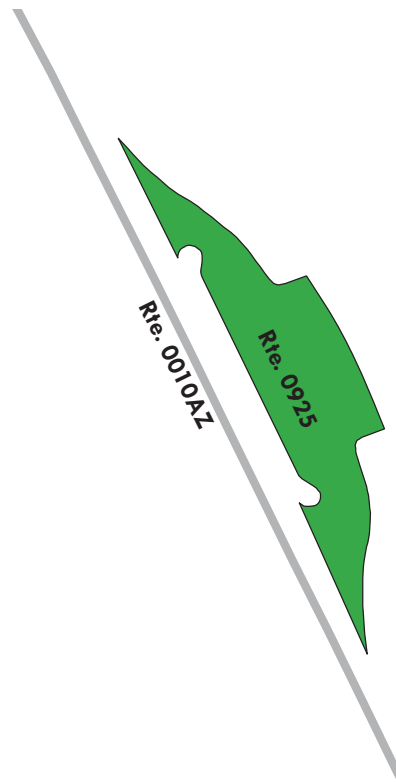
TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.11

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46452	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
12,370	0.213	6	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NOT APPLICABLE	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0926: RAINBOW POINT PARKING

Manual Rating

FROM END OF ROUTE 0010ZZ (MAIN PARK ROADS)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46436	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
44,818	0.772	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

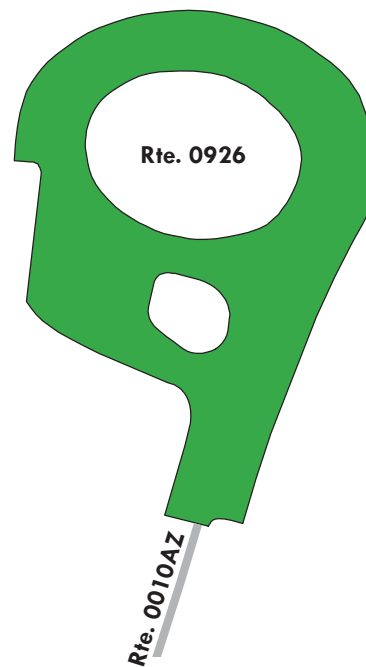
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0927: PARK ENTRANCE PARKING

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 0.07

TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 0.11

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91743	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
14,800	0.255	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

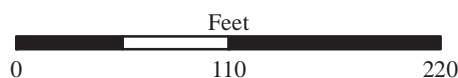
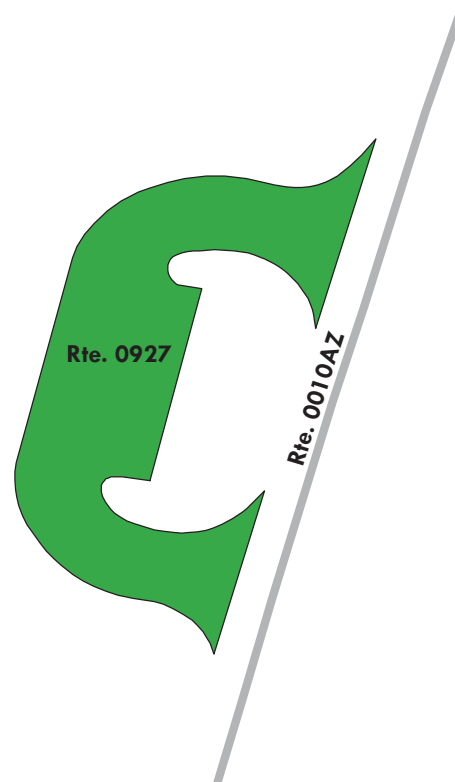
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0928: NO-NAME SOUTH PARKING AT MP 17.2

Manual Rating

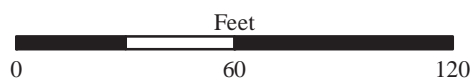
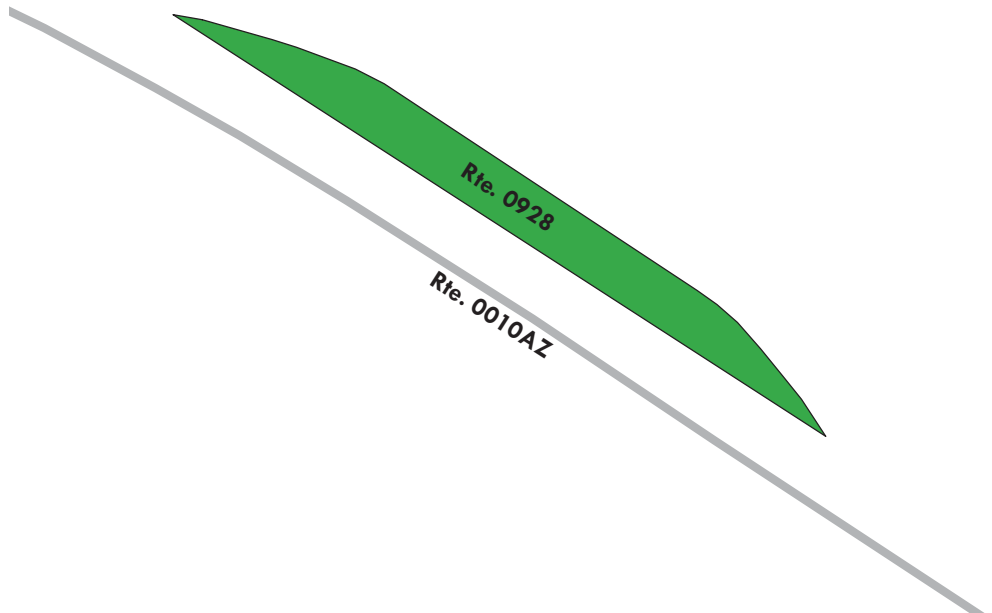
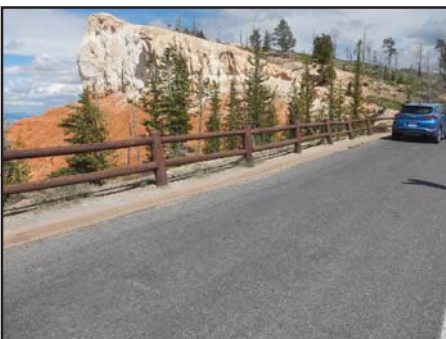
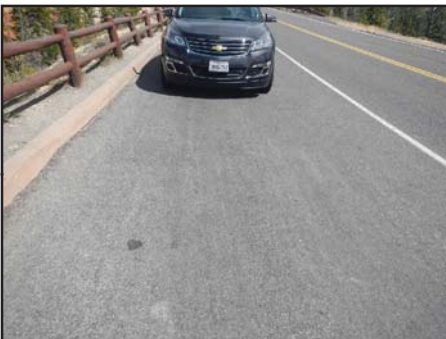
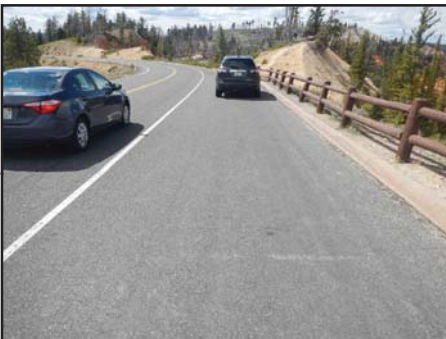
ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 17.45

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46484	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,036	0.035	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0929: BLACK BIRCH PARKING

Manual Rating

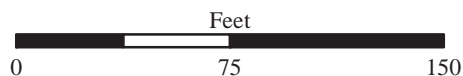
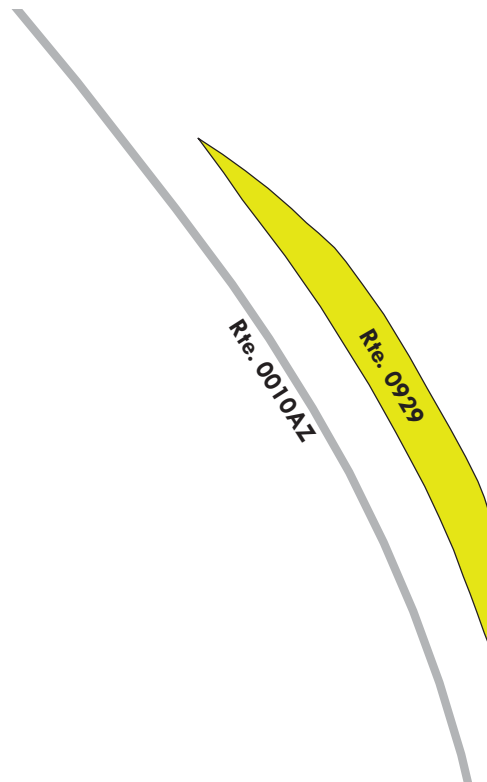
ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.98

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46495	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,187	0.038	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0930: NO-NAME NORTH PARKING AT MP 15.6

Manual Rating

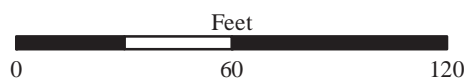
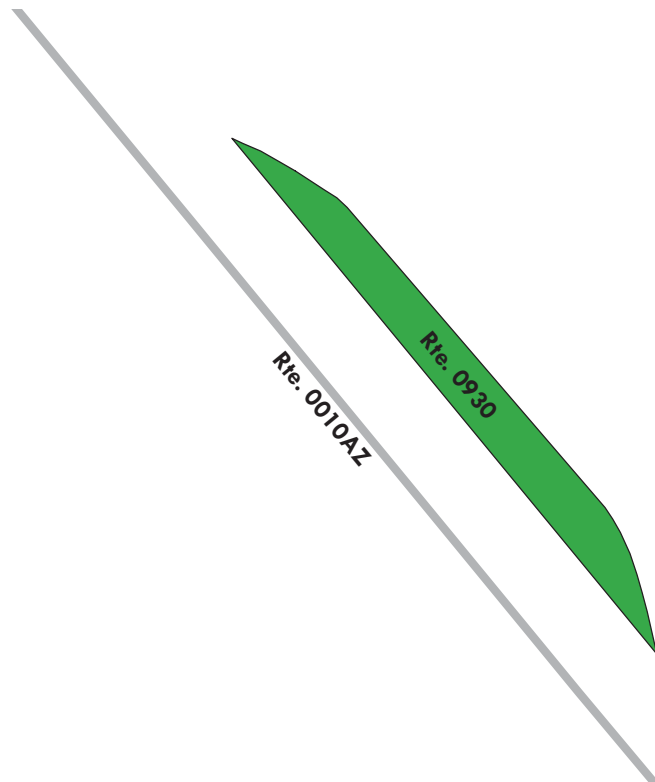
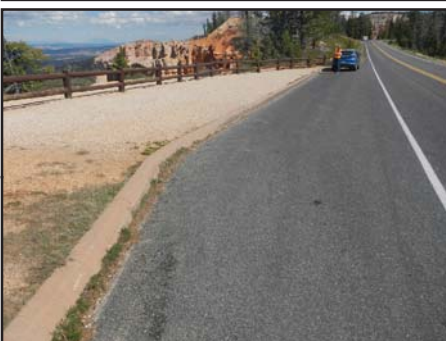
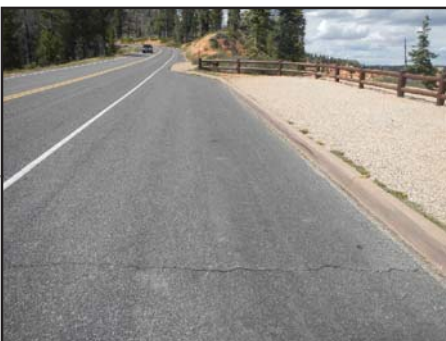
ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 15.80

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46483	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,700	0.029	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0931: NO-NAME MIDDLE PARKING AT MP 13.2

Manual Rating

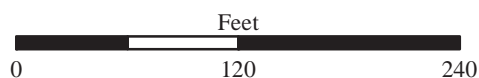
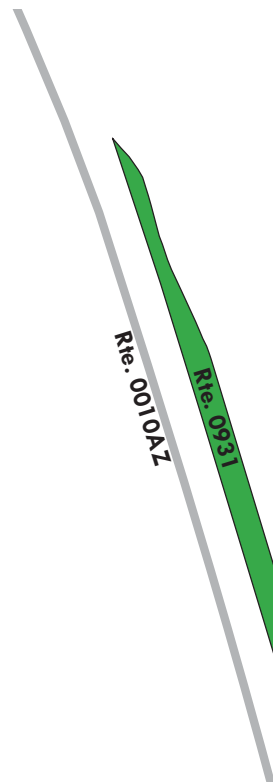
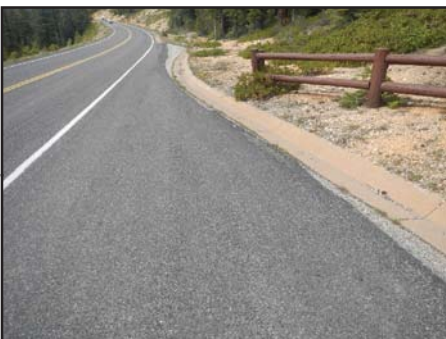
ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 13.35

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	56325	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,518	0.043	NOT APPLICABLE	DO NOTHING
Curb Type		Curb & Gutter Type	
NO CURB		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0932: WORK GROUP SITE PARKING

Manual Rating

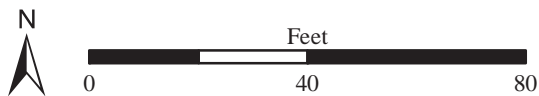
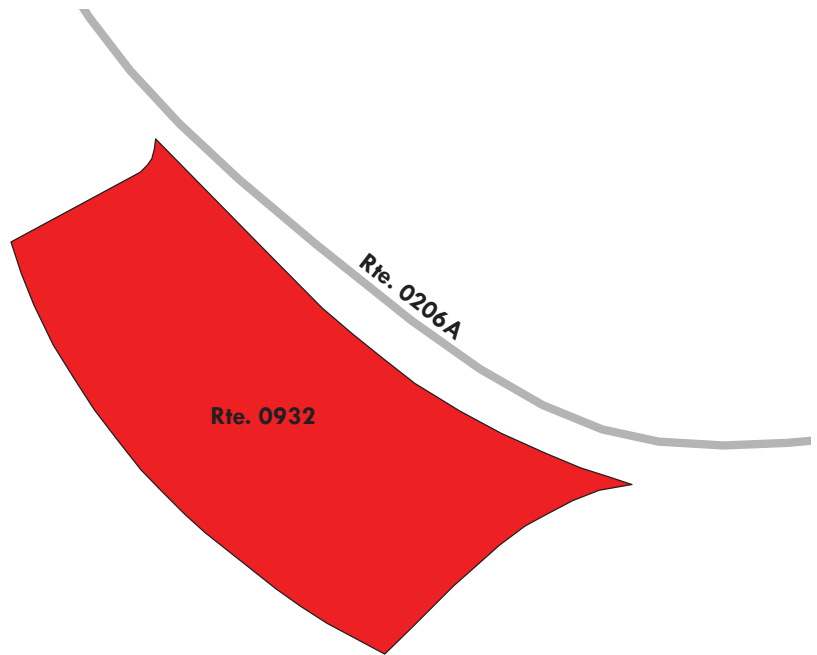
ADJACENT TO ROUTE 0206A (SUNSET CAMPGROUND ROAD LOOP A) AT MP 0.35

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91727	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,470	0.06	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0933: SUNSET CAMPGROUND GROUP SITE PARKING

Manual Rating

FROM ROUTE 0206 (SUNSET CAMPGROUND ROAD)

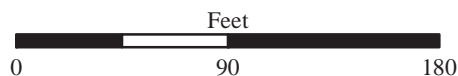
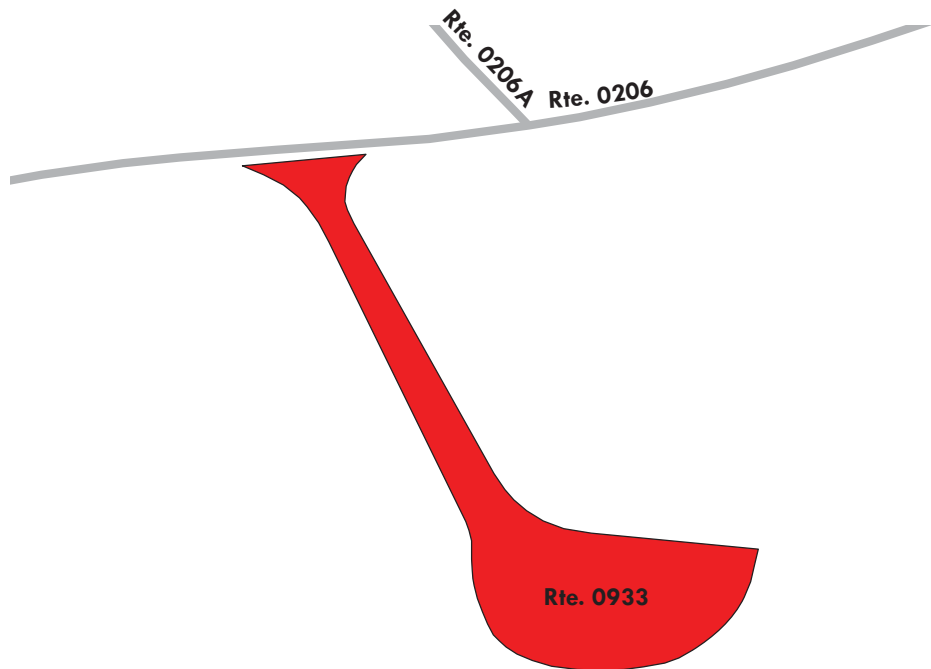
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91728	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
7,239	0.125	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0934A: SCHOOL BUS STOP PARKING

Manual Rating

ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.22

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91748	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
912	0.016	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0934B: PARKING AREA ACROSS FROM Q-19

Manual Rating

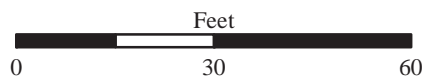
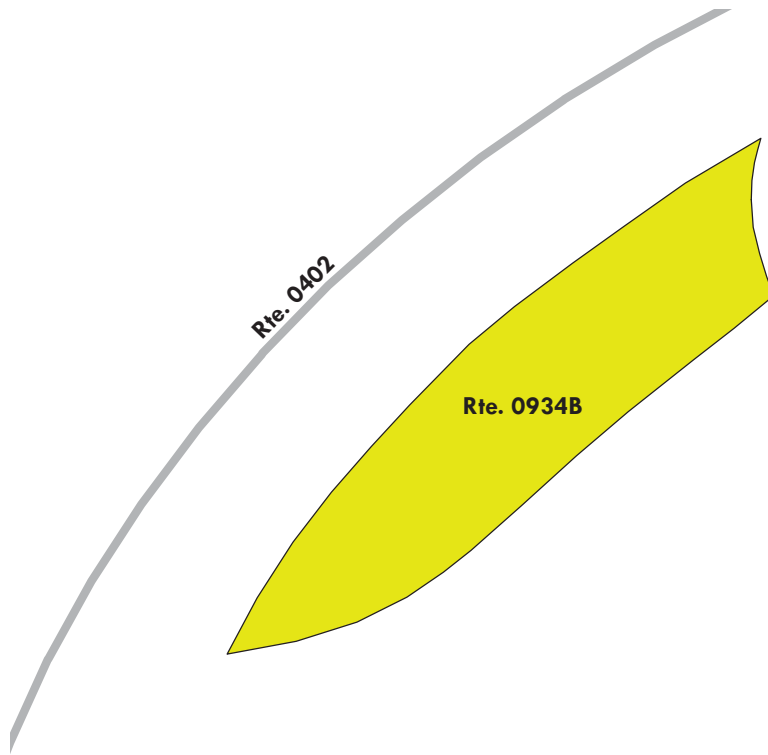
ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.31

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91749	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,612	0.028	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0934C: PARKING AREA ACROSS FROM Q-21

Manual Rating

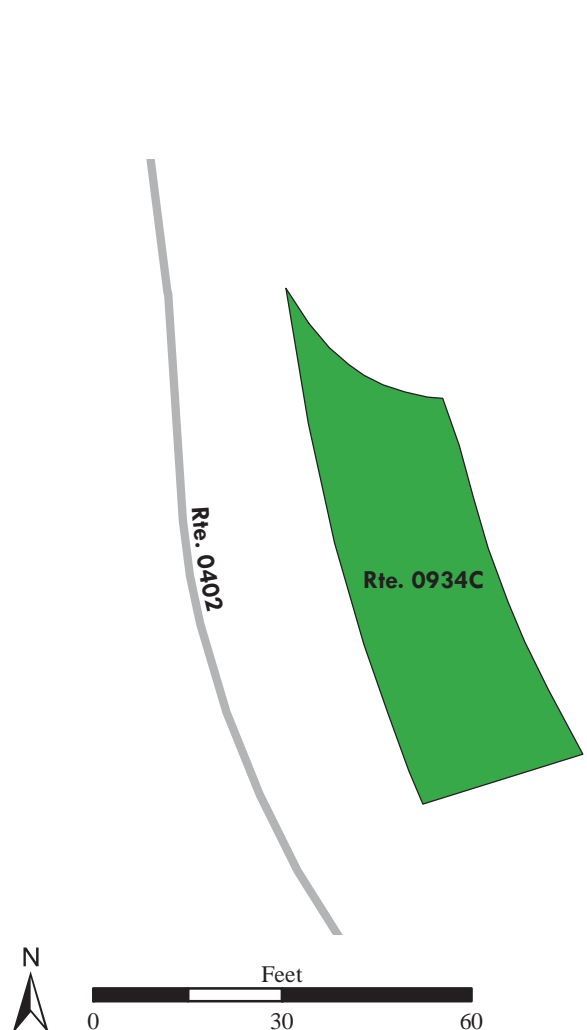
ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.38

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91750	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,295	0.022	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0934D: PARKING AREA ACROSS FROM Q-24

Manual Rating

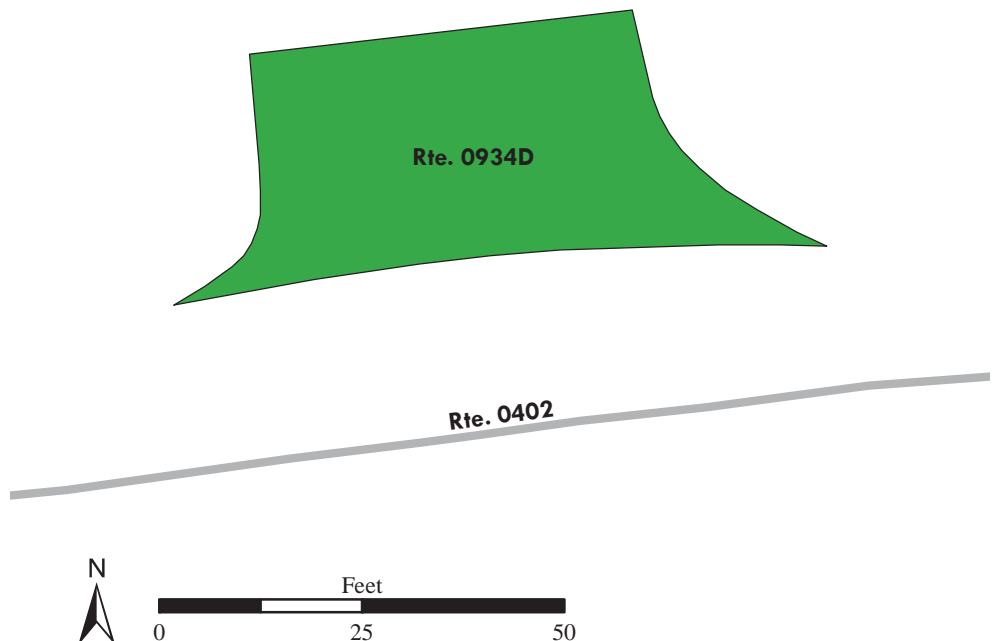
ADJACENT TO ROUTE 0402 (MISSION 66 HOUSING LOOP ROAD) AT MP 0.44

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91751	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,235	0.021	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0935A: NORTH CAMPGROUND PICNIC AREA PARKING NORTH

Manual Rating

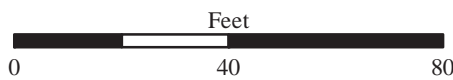
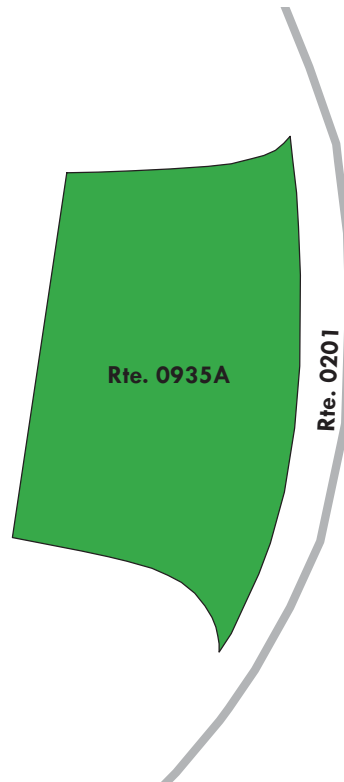
ADJACENT TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.49

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91724	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,860	0.049	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0935B: NORTH CAMPGROUND PICNIC AREA PARKING SOUTH

Manual Rating

ADJACENT TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.53

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91725	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,957	0.034	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

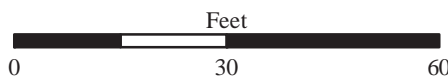
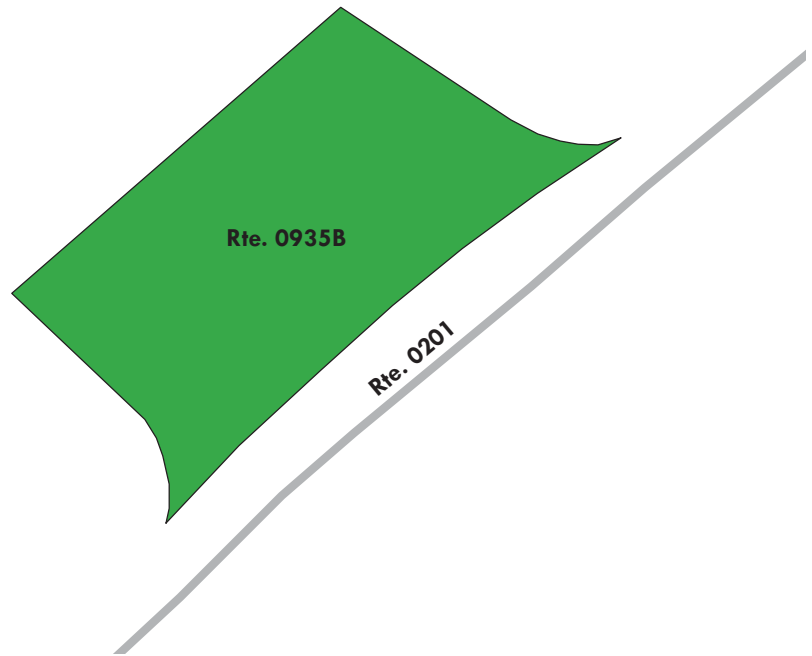
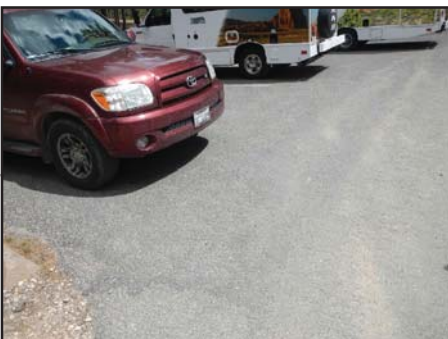
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0936: NORTH CAMPGROUND PICNIC AREA PARKING

Manual Rating

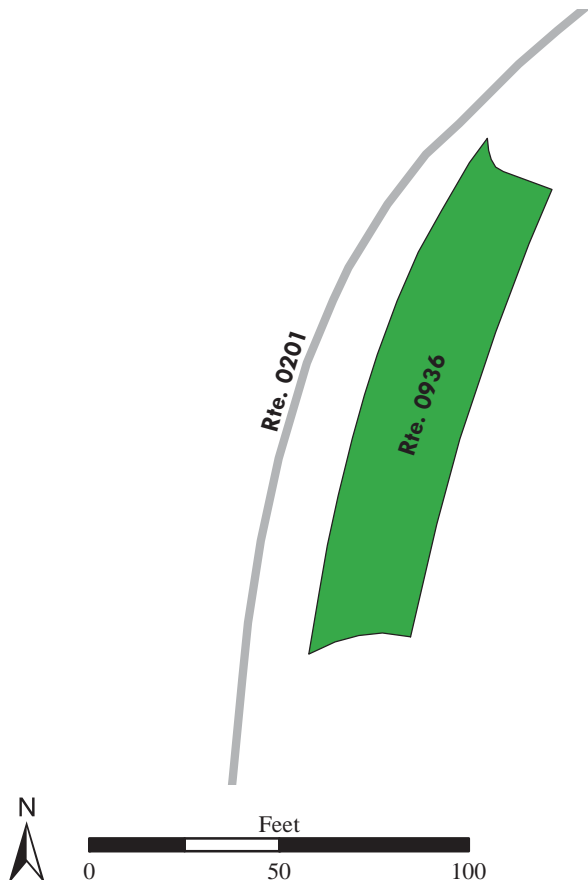
ADJACENT TO ROUTE 0201 (NORTH CAMPGROUND ROAD) AT MP 0.56

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	91726	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,725	0.047	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0937: LONG HOLLOW PICNIC PARKING AREA

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 9.73

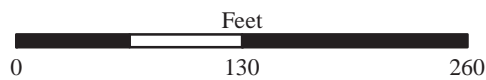
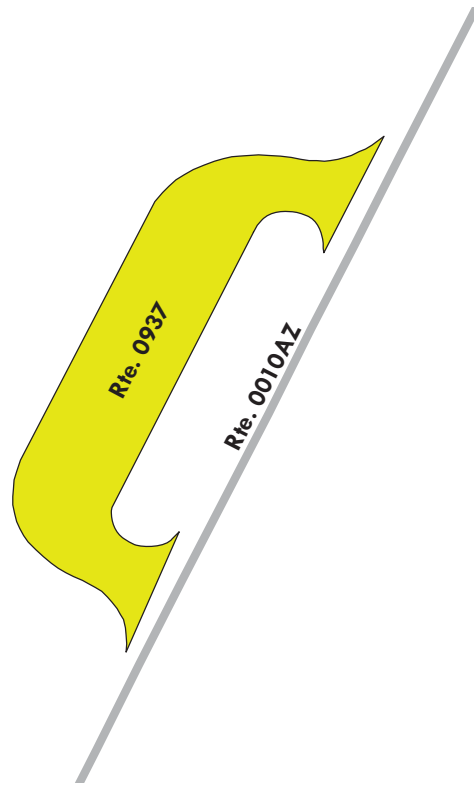
TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 9.77

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46469	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
14,265	0.246	7	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0938: WHITEMAN TRAILHEAD PARKING

Manual Rating

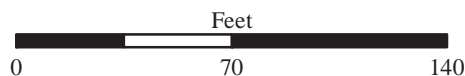
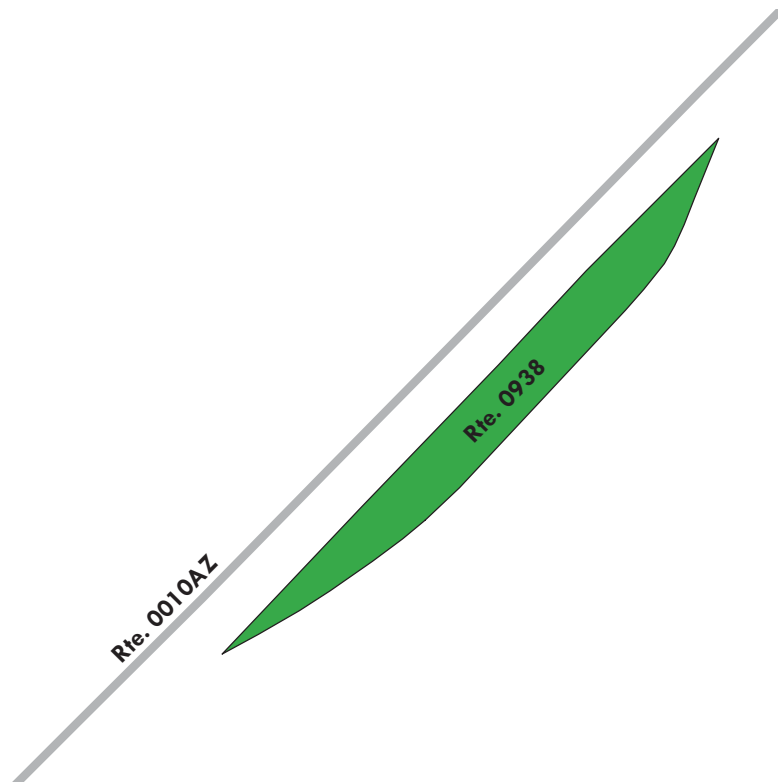
ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 9.19

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46471	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,559	0.044	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0939: SWAMP CANYON PARKING

Manual Rating

FROM ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 6.30

TO ROUTE 0010ZZ (MAIN PARK ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46472	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,575	0.165	6	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

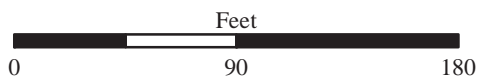
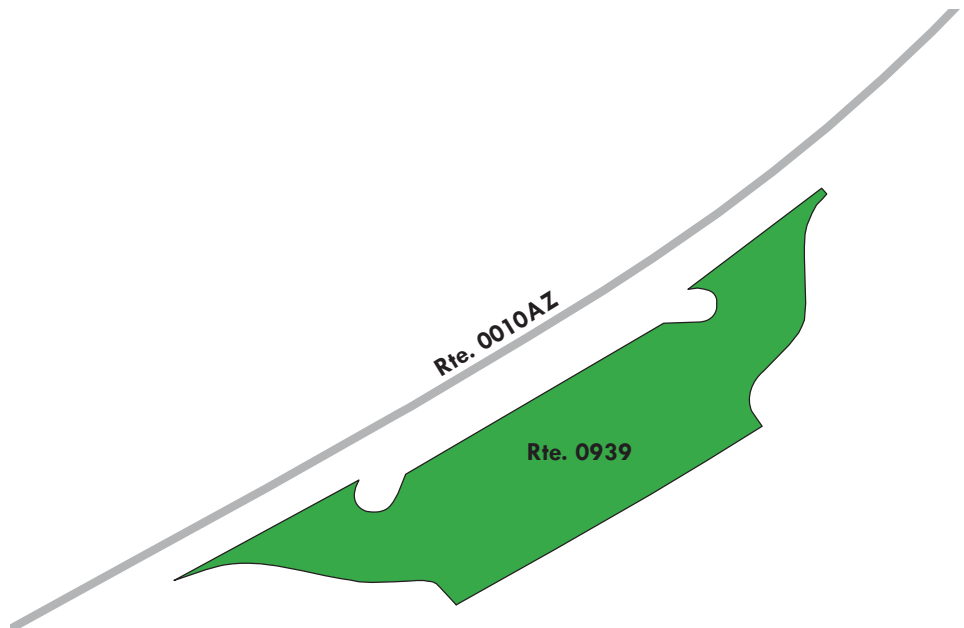
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0940: CCC PICNIC AREA PARKING

Manual Rating

ADJACENT TO ROUTE 0010ZZ (MAIN PARK ROAD) AT MP 4.68

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	46476	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,736	0.047	8	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

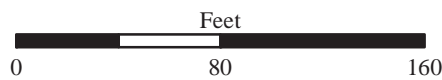
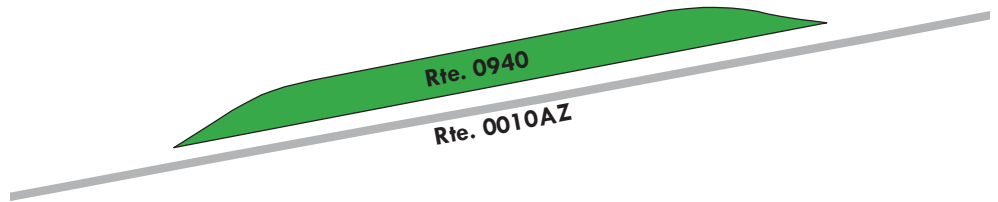
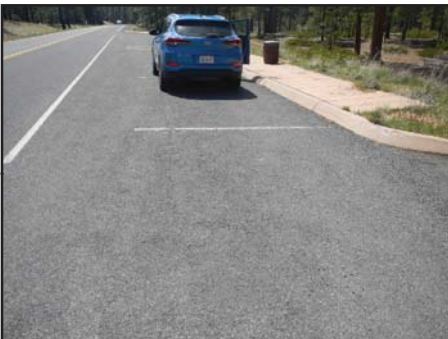
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Bryce Canyon National Park

ROUTE 0941: MAINTENANCE COMPLEX PARKING

Manual Rating

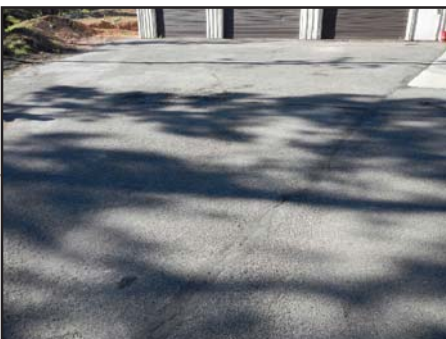
FROM END OF ROUTE 0411 (MAINTENANCE COMPLEX ROAD)
TO MAINTENANCE AREA

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	N/A	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
60,297	1.038	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

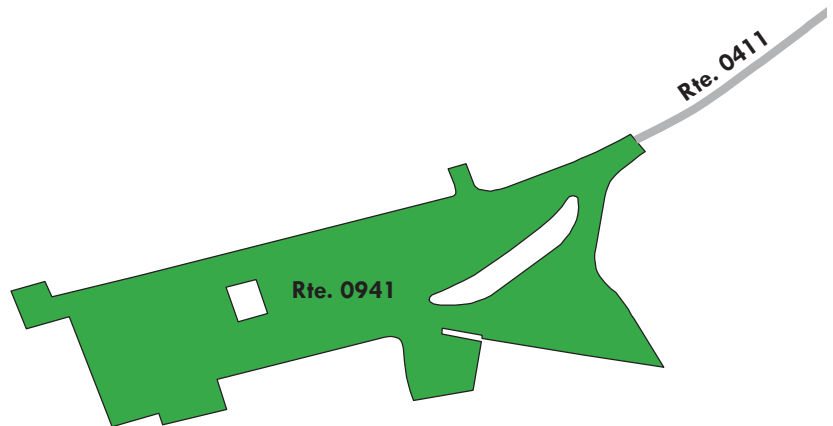
Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Parking area consists of multiple surface types: 1 part Asphalt at 57,752 square feet; 1 part Concrete at 2,545 square feet.



Bryce Canyon National Park

ROUTE 0942: VISITOR CENTER OVERFLOW PARKING

Manual Rating

FROM ROUTE 0201 (NORTH CAMPGROUND ROAD)

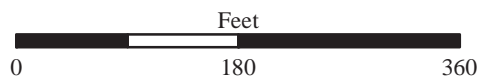
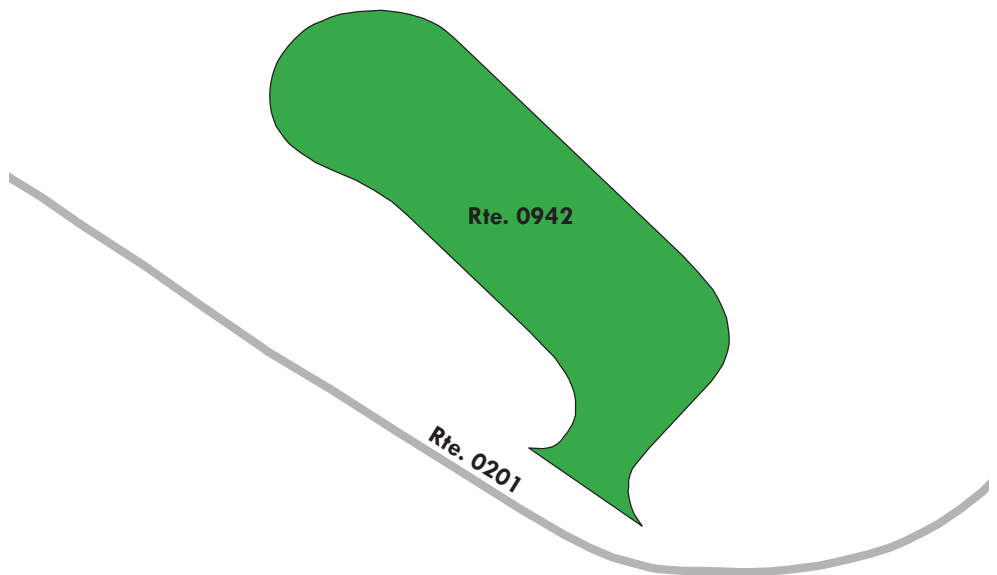
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/19/2016	246786	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
47,837	0.824	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Section 7 Road Milepost Information



Bryce Canyon National Park



Federal Lands Highway
Road Inventory Program

Road Milepost Information

This report section contains road milepost information for all paved roads in the park that were collected with the Data Collection Vehicle (DCV). The milepost data is obtained from the DCV by using a distance measuring instrument (DMI) that is calibrated to record mileage to the nearest thousandth of a mile. Park roads that were manually rated did not have milepost data collected, and thus are not included in this report section.

For Cycle 6, the information presented in this section differs from previous RIP cycles in that it does not contain the roadside features inventories for the paved park roads. Some examples of the features previously collected are signs, culverts/drop inlets, guardrails, curbing, pullouts, etc. If the park was collected in a previous RIP cycle, then the latest features data can be obtained by referencing the following:

Where to find the latest Features Inventories for NPS Parks:

- For Small Parks (parks with less than 10 miles of paved roads):
 - Refer to Cycle 5 data (collected 2010 - 2014)
 - Features were reported in Section 9 of the *Cycle 5* RIP report
 - Video of features can be viewed using the *PathViewVO* program and *Cycle 5* data
- For Large Parks (parks with more than 10 miles of paved roads):
 - Refer to Cycle 4 data (collected 2006 - 2009)
 - Features were reported in Section 9 of the *Cycle 4* RIP report
 - Video of features can be viewed using the *VisiData* program and *Cycle 4* data
 - Note: Features inventories were updated in Large Parks in *Cycle 5* only on a route by route basis if the route was new or modified in *Cycle 5*. If this is the case for a particular route, then features for the route can be obtained using the *PathViewVO* program and *Cycle 5* data (same as above for Small parks).

Milepost Events Verified in Cycle 6

In Cycle 6, the following events were collected and reported in Section 7 of this report:

- Intersections with roads and parking areas
- All bridges and culverts with BIP Numbers (bridge inspection program numbers)
- Mile Marker Signs
- One-Way travel directions
- Overpasses
- Tunnels
- Low Water Crossings (LWCR)
- Surface type changes
- Construction areas where no pavement condition data was obtained

GPS Mileage Matching

A consistent survey milepost and constant route length as recorded by the Data Collection Vehicle (DCV) is a challenge to maintain from one collection cycle to the next. The challenge is due to many factors such as driver characteristics, DMI calibration, tire pressure etc. After Cycle 4 (~2010), a decision was made to hold constant the length of roads so long as there was no physical change from reconstruction projects or realignments that would result in a change to the length of a road. Consequently, the “GPS Mileage Match” was implemented to specify which cycle the route length is being matched. Route mileages and GPS are matched to a previous collection whenever there is no physical change to a route alignment. The route mileage and GPS is not matched to previous cycles whenever it is determined that a road length and GPS needs to be updated. When this happens the GPS and length is updated to the cycle that displays the change, and that collection cycle is used as the matching cycle in subsequent collections of the road. Thus, the Cycle 6 GIS could be either the survey length collected in Cycle 4, Cycle 5, or Cycle 6 and therefore, may not match the survey milepost displayed in the latest Cycle 6 DCV video which is viewable in *PathView VO*.

The features inventories and road logs collected on NPS routes contain mileposts that are determined from the corresponding cycle that the GPS is matched to. Therefore, the mileposts contained in the Cycle 4 or 5 features inventories or the Cycle 6 road logs may not exactly match the survey milepost collected in the latest Cycle 6 video of the road.

Locating Mile Marker Signs

For routes that have mile marker signs along them, the milepost reported by RIP will most likely not line up exactly with the sign located in the field. This could be happening for many reasons, most likely due to either the error falling within the acceptable calibration range of the vehicle, or the level of accuracy that the mile marker signs were placed in the field.

Because mile marker signs are important features in many project plans and location descriptions, RIP is reporting locations of mile marker signs in three ways in Cycle 6:

1. Mileposts from Cycle 6 GIS: the official RIP milepost taken from the features inventories and the matching GPS/mileage cycle as described above. This is the milepost that should be used on project plans and when finding locations in the field
2. Mileposts from Cycle 6 Video: milepost shown to help locate the mile marker sign in the latest *PathView VO* video.
3. Latitude / Longitude: a constant way of locating a mile marker sign so long as the park has not moved the sign

The mileposts from Cycle 6 Video and GIS should be nearly the same, but on longer roads it has been observed that the Video milepost deviates more from the official GIS milepost that comes from the matching cycle.

BRCA: Route Milepost Log

ROUTE 0010AZ: MAIN PARK ROAD (SOUTHBOUND)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (UTAH HIGHWAY 63 / NON NPS)
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.05	0.05	INTERSECTION	L	UNPAVED ROUTE
0.06	0.06	INTERSECTION	R	UNPAVED ROUTE
0.07	0.07	INTERSECTION	R	ROUTE 0927 (PARK ENTRANCE PARKING)
0.11	0.11	INTERSECTION	R	ROUTE 0927 (PARK ENTRANCE PARKING)
0.38	0.38	INTERSECTION	L	ROUTE 0200 (FAIRYLAND ROAD)
1.11	1.11	MILE MARKER	R	MILE MARKER 1
1.12	1.12	INTERSECTION	L	ROUTE 0010BZ (MAIN PARK ROAD (EXIT LANE))
1.12	1.12	ONE-WAY START	N/A	N/A
1.14	1.14	INTERSECTION	R	ROUTE 0901 (VC ADMINISTRATION PARKING)
1.24	1.24	ONE-WAY END	N/A	N/A
1.24	1.24	INTERSECTION	L	ROUTE 0010BZ (MAIN PARK ROAD (EXIT LANE))
1.26	1.26	INTERSECTION	R	ROUTE 0902 (VISITOR CENTER PARKING)
1.35	1.35	INTERSECTION	L	ROUTE 0201 (NORTH CAMPGROUND ROAD)
1.66	1.66	INTERSECTION	L	ROUTE 0011 (LODGE LOOP ROAD)
1.80	1.80	INTERSECTION	R	ROUTE 0411 (MAINTENANCE COMPLEX ROAD)
2.09	2.09	INTERSECTION	R	ROUTE 0401 (MIXING CIRCLE ROAD)
2.11	2.11	MILE MARKER	L	MILE MARKER 2
2.19	2.19	INTERSECTION	L	ROUTE 0011 (LODGE LOOP ROAD)
2.39	2.39	INTERSECTION	L	ROUTE 0203 (SUNSET POINT ACCESS ROAD)
2.52	2.52	INTERSECTION	R	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
2.60	2.60	INTERSECTION	L	ROUTE 0408 (WATER TANK HILL ACCESS ROAD)
2.92	2.92	INTERSECTION	L	ROUTE 0100 (BRYCE POINT ACCESS ROAD)
3.13	3.13	MILE MARKER	R	MILE MARKER 3
4.14	4.14	MILE MARKER	L	MILE MARKER 4
4.68	4.68	INTERSECTION	R	ROUTE 0940 (CCC PICNIC AREA PARKING)
5.16	5.16	MILE MARKER	L	MILE MARKER 5
6.16	6.16	MILE MARKER	L	MILE MARKER 6

BRCAs: Route Milepost Log

ROUTE 0010AZ: MAIN PARK ROAD (SOUTHBOUND)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
6.30	6.30	INTERSECTION	L	ROUTE 0939 (SWAMP CANYON PARKING)
6.33	6.33	INTERSECTION	L	ROUTE 0939 (SWAMP CANYON PARKING)
6.84	6.84	INTERSECTION	L	PAVED PULLOUT
7.18	7.18	MILE MARKER	R	MILE MARKER 7
8.17	8.17	MILE MARKER	R	MILE MARKER 8
8.27	8.27	INTERSECTION	R	ROUTE 0406 (WHITEMAN BENCH HAUL ROAD)
9.19	9.19	MILE MARKER	R	MILE MARKER 9
9.19	9.19	INTERSECTION	L	ROUTE 0938 (WHITEMAN TRAILHEAD PARKING)
9.73	9.73	INTERSECTION	R	ROUTE 0937 (LONG HOLLOW PICNIC PARKING AREA)
9.77	9.77	INTERSECTION	R	ROUTE 0937 (LONG HOLLOW PICNIC PARKING AREA)
10.19	10.19	MILE MARKER	R	MILE MARKER 10
10.81	10.81	INTERSECTION	L	ROUTE 0922 (FAIRVIEW POINT PARKING)
11.20	11.20	MILE MARKER	R	MILE MARKER 11
11.85	11.85	INTERSECTION	R	ROUTE 0405 (WHITEMAN CAVE PATROL ROAD)
12.22	12.22	MILE MARKER	R	MILE MARKER 12
12.58	12.58	INTERSECTION	L	ROUTE 0923 (NATURAL BRIDGE PARKING)
12.66	12.66	INTERSECTION	L	ROUTE 0923 (NATURAL BRIDGE PARKING)
13.22	13.22	MILE MARKER	R	MILE MARKER 13
13.35	13.35	INTERSECTION	L	ROUTE 0931 (NO-NAME MIDDLE PARKING AT MP 13.2)
14.04	14.04	INTERSECTION	L	ROUTE 0924 (AGUA CANYON PARKING)
14.09	14.09	INTERSECTION	L	ROUTE 0924 (AGUA CANYON PARKING)
14.23	14.23	MILE MARKER	R	MILE MARKER 14
15.06	15.06	INTERSECTION	L	ROUTE 0925 (PONDEROSA POINT PARKING)
15.11	15.11	INTERSECTION	L	ROUTE 0925 (PONDEROSA POINT PARKING)
15.24	15.24	MILE MARKER	R	MILE MARKER 15
15.80	15.80	INTERSECTION	L	ROUTE 0930 (NO-NAME NORTH PARKING AT MP 15.6)
15.98	15.98	INTERSECTION	L	ROUTE 0929 (BLACK BIRCH PARKING)
16.25	16.25	MILE MARKER	R	MILE MARKER 16
17.06	17.06	INTERSECTION	R	ROUTE 0403 (YOVIMPA PASS ROAD)

BRCAs: Route Milepost Log

ROUTE 0010AZ: MAIN PARK ROAD (SOUTHBOUND)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
17.26	17.26	MILE MARKER	R	MILE MARKER 17
17.45	17.45	INTERSECTION	L	ROUTE 0928 (NO-NAME SOUTH PARKING AT MP 17.2)
18.20	18.20	MILE MARKER	R	MILE MARKER 18
18.20	18.20	INTERSECTION	N/A	ROUTE 0926 (RAINBOW POINT PARKING)

ROUTE 0010BZ: MAIN PARK ROAD (EXIT LANE)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	L	ROUTE 0902 (VISITOR CENTER PARKING)
0.00	0.00	INTERSECTION	N/A	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.06	0.06	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND)) CUT-THRU
0.13	0.13	ONE-WAY END	N/A	N/A
0.13	0.13	INTERSECTION	N/A	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.13	0.13	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))

BRCA: Route Milepost Log

ROUTE 0011: LODGE LOOP ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.22	0.22	INTERSECTION	R	ROUTE 0400 (HISTORIC HOUSING DISTRICT ACCESS ROAD)
0.32	0.32	INTERSECTION	L	ROUTE 0202 (SUNRISE POINT ACCESS ROAD)
0.49	0.49	INTERSECTION	R	ROUTE 0400 (HISTORIC HOUSING DISTRICT ACCESS ROAD)
0.52	0.52	INTERSECTION	L	ROUTE 0202 (SUNRISE POINT ACCESS ROAD)
0.54	0.54	INTERSECTION	L	ROUTE 0946 (SERVICE STATION MMT HUB PARKING)
0.56	0.56	INTERSECTION	R	ROUTE 0908 (SERVICE STATION PARKING)
0.59	0.59	INTERSECTION	R	ROUTE 0908 (SERVICE STATION PARKING)
0.61	0.61	INTERSECTION	L	UNPAVED ROUTE (SERVICE ROAD)
0.62	0.62	INTERSECTION	L	ROUTE 0909 (SUNRISE MOTEL PARKING)
0.64	0.64	INTERSECTION	L	ROUTE 0909 (SUNRISE MOTEL PARKING)
0.69	0.69	INTERSECTION	L	ROUTE 0910 (LODGE PARKING)
0.75	0.75	INTERSECTION	L	ROUTE 0910 (LODGE PARKING)
0.80	0.80	INTERSECTION	L	ROUTE 0207 (LODGE ACCESS ROAD)
0.93	0.93	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.93	0.93	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))

ROUTE 0100: BRYCE POINT ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.10	0.10	INTERSECTION	L	ROUTE 0204 (INSPIRATION POINT ACCESS ROAD)
1.32	1.32	INTERSECTION	R	ROUTE 0205AZ (PARIA VIEW ACCESS ROAD)
1.38	1.38	INTERSECTION	R	ROUTE 0205BZ (PARIA VIEW ACCESS SPUR)
1.95	1.95	INTERSECTION	N/A	ROUTE 0919 (BRYCE POINT PARKING)

BRCA: Route Milepost Log

ROUTE 0200: FAIRYLAND ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.97	0.97	INTERSECTION	N/A	ROUTE 0900 (FAIRYLAND PARKING)

ROUTE 0201: NORTH CAMPGROUND ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.09	0.09	INTERSECTION	L	ROUTE 0942 (VISITOR CENTER OVERFLOW PARKING)
0.20	0.20	INTERSECTION	L	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.21	0.21	INTERSECTION	L	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.21	0.21	INTERSECTION	L	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP) SPUR
0.25	0.25	INTERSECTION	R	ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP)
0.30	0.30	INTERSECTION	R	ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP)
0.35	0.35	INTERSECTION	R	ROUTE 0201C (NORTH CAMPGROUND LOOP ROAD C)
0.43	0.43	INTERSECTION	R	ROUTE 0201C (NORTH CAMPGROUND LOOP ROAD C)
0.44	0.44	INTERSECTION	R	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.45	0.45	INTERSECTION	R	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP) SPUR
0.49	0.49	INTERSECTION	R	ROUTE 0935A (NORTH CAMPGROUND PICNIC AREA PARKING NORTH)
0.53	0.53	INTERSECTION	R	ROUTE 0935B (NORTH CAMPGROUND PICNIC AREA PARKING SOUTH)
0.56	0.56	INTERSECTION	L	ROUTE 0936 (NORTH CAMPGROUND PICNIC AREA PARKING)
0.61	0.61	INTERSECTION	L	ROUTE 0202 (SUNRISE POINT ACCESS ROAD)
0.61	0.61	INTERSECTION	R	ROUTE 0202 (SUNRISE POINT ACCESS ROAD)

BRCA: Route Milepost Log

ROUTE 0201AA: NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.00	0.00	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.01	0.01	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD) SPUR
0.03	0.03	INTERSECTION	L	ROUTE 0201AB (NORTH CAMPGROUND LOOP ROAD A, CONNECTOR)
0.17	0.17	INTERSECTION	L	ROUTE 0201AB (NORTH CAMPGROUND LOOP ROAD A, CONNECTOR)
0.29	0.29	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.29	0.29	INTERSECTION	N/A	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.29	0.29	INTERSECTION	L	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.29	0.29	ONE-WAY END	N/A	N/A

ROUTE 0201AB: NORTH CAMPGROUND LOOP ROAD A, CONNECTOR

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.07	0.07	INTERSECTION	R	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.07	0.07	INTERSECTION	L	ROUTE 0201AA (NORTH CAMPGROUND LOOP ROAD A, OUTERLOOP)
0.07	0.07	ONE-WAY END	N/A	N/A

BRCA: Route Milepost Log

ROUTE 0201BA: NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.02	0.02	INTERSECTION	R	ROUTE 0201BB (NORTH CAMPGROUND LOOP ROAD B)
0.04	0.04	INTERSECTION	R	ROUTE 0201BB (NORTH CAMPGROUND LOOP ROAD B)
0.17	0.17	INTERSECTION	L	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.17	0.17	ONE-WAY END	N/A	N/A
0.17	0.17	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD)

ROUTE 0201BB: NORTH CAMPGROUND LOOP ROAD B

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP)
0.00	0.00	INTERSECTION	R	ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP)
0.00	0.00	ONE-WAY START	N/A	N/A
0.04	0.04	INTERSECTION	L	ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP)
0.04	0.04	ONE-WAY END	N/A	N/A
0.04	0.04	INTERSECTION	R	ROUTE 0201BA (NORTH CAMPGROUND LOOP ROAD B, OUTERLOOP)

BRCA: Route Milepost Log

ROUTE 0201C: NORTH CAMPGROUND LOOP ROAD C

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0201C (NORTH CAMPGROUND LOOP ROAD C)
0.00	0.00	INTERSECTION	L	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.14	0.14	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.14	0.14	ONE-WAY END	N/A	N/A
0.14	0.14	INTERSECTION	L	ROUTE 0201 (NORTH CAMPGROUND ROAD)

ROUTE 0201DA: NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0201C (NORTH CAMPGROUND LOOP ROAD C)
0.02	0.02	INTERSECTION	L	ROUTE 0201 (NORTH CAMPGROUND ROAD) SPUR
0.05	0.05	INTERSECTION	R	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.05	0.05	ONE-WAY START	N/A	N/A
0.15	0.15	INTERSECTION	R	ROUTE 0201DB (NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #1)
0.17	0.17	INTERSECTION	R	ROUTE 0201DC (NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #2)
0.23	0.23	INTERSECTION	R	ROUTE 0201DC (NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #2)
0.30	0.30	INTERSECTION	R	ROUTE 0201DB (NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #1)
0.32	0.32	INTERSECTION	R	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.32	0.32	ONE-WAY END	N/A	N/A
0.32	0.32	INTERSECTION	N/A	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)

BRCAs: Route Milepost Log

ROUTE 0201DB: NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #1

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.09	0.09	INTERSECTION	L	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.09	0.09	ONE-WAY END	N/A	N/A
0.09	0.09	INTERSECTION	R	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)

ROUTE 0201DC: NORTH CAMPGROUND LOOP ROAD D, CONNECTOR #2

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.00	0.00	INTERSECTION	L	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.00	0.00	ONE-WAY START	N/A	N/A
0.05	0.05	INTERSECTION	R	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.05	0.05	INTERSECTION	L	ROUTE 0201DA (NORTH CAMPGROUND LOOP ROAD D, OUTERLOOP)
0.05	0.05	ONE-WAY END	N/A	N/A

BRCA: Route Milepost Log

ROUTE 0202: SUNRISE POINT ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0011 (LODGE LOOP ROAD)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0011 (LODGE LOOP ROAD)
0.16	0.16	INTERSECTION	R	ROUTE 0903 (SUNRISE POINT PARKING)
0.20	0.20	INTERSECTION	L	ROUTE 0904 (HPI PARKING)
0.22	0.22	INTERSECTION	L	ROUTE 0905 (GENERAL STORE PARKING)
0.29	0.29	INTERSECTION	L	ROUTE 0905 (GENERAL STORE PARKING)
0.34	0.34	INTERSECTION	R	ROUTE 0906 (OUTDOOR THEATRE PARKING)
0.41	0.41	INTERSECTION	R	ROUTE 0201 (NORTH CAMPGROUND ROAD)
0.41	0.41	ONE-WAY END	N/A	N/A
0.42	0.42	INTERSECTION	R	ROUTE 0907 (DUMP STATION PARKING)
0.45	0.45	INTERSECTION	R	ROUTE 0907 (DUMP STATION PARKING)
0.51	0.51	INTERSECTION	R	ROUTE 0011 (LODGE LOOP ROAD)
0.51	0.51	INTERSECTION	L	ROUTE 0011 (LODGE LOOP ROAD)

ROUTE 0203: SUNSET POINT ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.15	0.15	INTERSECTION	N/A	ROUTE 0918 (SUNSET POINT PARKING)

BRCA: Route Milepost Log

ROUTE 0204: INSPIRATION POINT ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0100 (BRYCE POINT ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0100 (BRYCE POINT ACCESS ROAD)
0.23	0.23	INTERSECTION	N/A	ROUTE 0921 (INSPIRATION POINT PARKING)

ROUTE 0205AZ: PARIA VIEW ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0100 (BRYCE POINT ACCESS ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0100 (BRYCE POINT ACCESS ROAD)
0.06	0.06	INTERSECTION	L	ROUTE 0205BZ (PARIA VIEW ACCESS SPUR)
0.38	0.38	INTERSECTION	N/A	ROUTE 0920 (PARIA POINT PARKING)

ROUTE 0205BZ: PARIA VIEW ACCESS SPUR

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0100 (BRYCE POINT ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0100 (BRYCE POINT ACCESS ROAD)
0.05	0.05	INTERSECTION	N/A	ROUTE 0205AZ (PARIA VIEW ACCESS ROAD)
0.05	0.05	INTERSECTION	R	ROUTE 0205AZ (PARIA VIEW ACCESS ROAD)

BRCAs: Route Milepost Log

ROUTE 0206: SUNSET CAMPGROUND ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.06	0.06	INTERSECTION	R	UNPAVED ROUTE (SERVICE ROAD)
0.10	0.10	INTERSECTION	R	ROUTE 0206A (SUNSET CAMPGROUND ROAD LOOP A)
0.12	0.12	INTERSECTION	L	ROUTE 0933 (SUNSET CAMPGROUND GROUP SITE PARKING)
0.13	0.13	INTERSECTION	R	UNPAVED PICNIC PARKING
0.14	0.14	INTERSECTION	R	UNPAVED PICNIC PARKING
0.18	0.18	INTERSECTION	R	ROUTE 0206A (SUNSET CAMPGROUND ROAD LOOP A)
0.21	0.21	INTERSECTION	L	ROUTE 0206B (SUNSET CAMPGROUND ROAD LOOP B)
0.32	0.32	INTERSECTION	L	ROUTE 0206C (SUNSET CAMPGROUND ROAD LOOP C)
0.32	0.32	INTERSECTION	N/A	ROUTE 0206C (SUNSET CAMPGROUND ROAD LOOP C)

ROUTE 0206A: SUNSET CAMPGROUND ROAD LOOP A

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.35	0.35	INTERSECTION	R	ROUTE 0932 (WORK GROUP SITE PARKING)
0.43	0.43	INTERSECTION	R	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.43	0.43	INTERSECTION	N/A	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.43	0.43	ONE-WAY END	N/A	N/A

BRCAs: Route Milepost Log

ROUTE 0206B: SUNSET CAMPGROUND ROAD LOOP B

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.01	0.01	INTERSECTION	L	ROUTE 0206B (SUNSET CAMPGROUND ROAD LOOP B)
0.01	0.01	ONE-WAY START	N/A	N/A
0.20	0.20	ONE-WAY END	N/A	N/A
0.20	0.20	INTERSECTION	L	ROUTE 0206B (SUNSET CAMPGROUND ROAD LOOP B)
0.20	0.20	INTERSECTION	N/A	ROUTE 0206B (SUNSET CAMPGROUND ROAD LOOP B)

ROUTE 0206C: SUNSET CAMPGROUND ROAD LOOP C

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0206C (SUNSET CAMPGROUND ROAD LOOP C)
0.25	0.25	INTERSECTION	R	ROUTE 0206 (SUNSET CAMPGROUND ROAD)
0.25	0.25	INTERSECTION	L	ROUTE 0206C (SUNSET CAMPGROUND ROAD LOOP C)
0.25	0.25	ONE-WAY END	N/A	N/A

BRCA: Route Milepost Log

ROUTE 0207: LODGE ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0011 (LODGE LOOP ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0011 (LODGE LOOP ROAD)
0.07	0.07	INTERSECTION	L	UNPAVED PARKING (LODGE EMPLOYEE PARKING)
0.09	0.09	INTERSECTION	R	ROUTE 0911 (SUNSET MOTEL PARKING)
0.10	0.10	INTERSECTION	R	ROUTE 0911 (SUNSET MOTEL PARKING)
0.15	0.15	INTERSECTION	R	ROUTE 0912 (WESTERN CABIN PARKING AREA WEST)
0.22	0.22	INTERSECTION	N/A	ROUTE 0913 (WESTERN CABIN PARKING AREA NORTH)

ROUTE 0400: HISTORIC HOUSING DISTRICT ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0011 (LODGE LOOP ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (LODGE LOOP ROAD)
0.13	0.13	INTERSECTION	L	ROUTE 0916A (PONDEROSA AND WHISPERING PINES DORMITORIES PARKING)
0.15	0.15	INTERSECTION	L	ROUTE 0916B (HS4 AND MANZANITA DORMITORY PARKING)
0.16	0.16	INTERSECTION	L	ROUTE 0916B (HS4 AND MANZANITA DORMITORY PARKING)
0.34	0.34	INTERSECTION	R	ROUTE 0011 (LODGE LOOP ROAD)
0.34	0.34	INTERSECTION	L	ROUTE 0011 (LODGE LOOP ROAD)

BRCA: Route Milepost Log

ROUTE 0401: MIXING CIRCLE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.15	0.15	INTERSECTION	L	UNPAVED ROUTE
0.42	0.42	INTERSECTION	L	UNPAVED PARKING (SMALL STORAGE BUILDINGS)
0.47	0.47	INTERSECTION	L	UNPAVED ROUTE (HORSE CORRAL ROAD)
0.48	0.48	INTERSECTION	R	UNPAVED ROUTE (HORSE CORRAL ROAD)
0.51	0.51	INTERSECTION	L	ROUTE 0943 (MIXING CIRCLE STORAGE PARKING)
0.54	0.54	INTERSECTION	L	ROUTE 0412 (BONE YARD ROAD)
0.54	0.54	INTERSECTION	L	ROUTE 0410 (NPS HORSE BARN ROAD)
0.60	0.60	INTERSECTION	R	ROUTE 0945 (HORSE CORRAL PARKING)
0.63	0.63	INTERSECTION	R	ROUTE 0944 (MIXING CIRCLE RV LOOP / PARKING)
0.64	0.64	INTERSECTION	N/A	ROUTE 0208 (EAST CREEK ROAD)

ROUTE 0402: HOUSING LOOP ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0411 (MAINTENANCE COMPLEX ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0411 (MAINTENANCE COMPLEX ROAD)
0.11	0.11	INTERSECTION	R	ROUTE 0917 (APARTMENT / PICNIC AREA PARKING)
0.16	0.16	INTERSECTION	L	ROUTE 0402 (HOUSING LOOP ROAD)
0.22	0.22	INTERSECTION	L	ROUTE 0934A (SCHOOL BUS STOP PARKING)
0.31	0.31	INTERSECTION	L	ROUTE 0934B (PARKING AREA ACROSS FROM Q-19)
0.38	0.38	INTERSECTION	L	ROUTE 0934C (PARKING AREA ACROSS FROM Q-21)
0.44	0.44	INTERSECTION	L	ROUTE 0934D (PARKING AREA ACROSS FROM Q-24)
0.48	0.48	INTERSECTION	L	ROUTE 0402 (HOUSING LOOP ROAD)
0.48	0.48	INTERSECTION	R	ROUTE 0402 (HOUSING LOOP ROAD)

BRCA: Route Milepost Log

ROUTE 0411: MAINTENANCE COMPLEX ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.00	0.00	INTERSECTION	R	ROUTE 0010AZ (MAIN PARK ROAD (SOUTHBOUND))
0.04	0.04	INTERSECTION	R	ROUTE 0402 (HOUSING LOOP ROAD)
0.10	0.10	INTERSECTION	N/A	ROUTE 0941 (MAINTENANCE COMPLEX PARKING)

ROUTE 0412: BONE YARD ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0401 (MIXING CIRCLE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0401 (MIXING CIRCLE ROAD)
0.07	0.07	INTERSECTION	L	ROUTE 0943 (MIXING CIRCLE STORAGE PARKING)
0.11	0.11	INTERSECTION	N/A	ROUTE 0410 (NPS HORSE BARN ROAD)

Section 8 Appendix



Bryce Canyon National Park



**Federal Lands Highway
Road Inventory Program**

Improvements to the RIP Index Equations and Determination of PCR

In 2005, the Federal Highway Administration (FHWA) began implementing the use of a Pavement Management System (PMS) to assist the National Park Service (NPS) in prioritizing Pavement Maintenance and Rehabilitation activities. The PMS used by FHWA is the Highway Pavement Management Application (HPMA) which has the ability to store inventory and condition data from the Road Inventory Program (RIP) and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Region, Park, or Route level. A regional prioritized list and optimization have been produced for most regions and the Federal Highway Deferred Maintenance is calculated via the HPMA as well.

In an effort to improve the accuracy of treatment recommendations and pavement condition descriptions the distresses and indexes that comprise the Pavement Condition Rating (PCR), an extensive study was completed throughout 2010 that has resulted in changes to the RIP condition reporting method and specifically, the calculation of PCR. It was determined that a better representation of PCR could be achieved by modifying the relative impact certain distresses would have on the overall rating.

Through the use of HPMA data, it was noted that false failure indicators existed with the existing PCR model, and that it would be necessary to reduce their impact. The distresses affected in this way were Rutting and Roughness. Conversely, experience showed that roadways with extensive cracking present were often shown to have a high PCR. Therefore, the crack index models were adjusted to be more sensitive to changes in crack severity or quantity. It was also determined that these issues were not due to a problem with data acquisition (i.e. the RIP “van”), but with the way the collected data was processed. The final change was to provide guidance on when to use the Roughness Condition Index (RCI) in the PCR calculation. Roughness data is of little value to determining overall condition on routes that, due to their length or geometrics, have lower vehicle operating speeds. Therefore, in Cycle 5, only routes that have lengths of one half mile or greater and posted speed limits of 25 mph or greater will have RCI reported and included in the PCR calculations.

Additionally, methodologies were updated in 2013 for Manually Rated Routes (paved routes that the collection vehicle is unable to drive) as well as Parking Areas to provide more accurate condition data to the HPMA. These updated methodologies allow for the efficient assessment of pavement conditions using a visual inspection method to denote specific distresses. These distresses are indicative of current conditions, the causes for current and future deterioration, and identify the level of targeted repair and rehabilitation practices required.

The changes that were implemented were endorsed by management at both the FHWA and NPS. In order to show the effectiveness of these changes, several sites were ground truth tested in early 2014 to ensure that an improvement was achieved between the relationship of PCR and the actual Maintenance and Rehabilitation needs that were represented. The changes will allow greater use of RIP and HPMA data for not simply condition data reporting, but also as a reliable tool for project identification and selection.

Description of the Rating System

The Federal Highway Administration, National Park Service Road Inventory Program (NPS-RIP), collects roadway condition data on paved surfaces (asphalt, concrete, brick, and cobblestone) on roads, parkways, and parking areas in national parks nationwide. The road surface condition data is collected using an automated Data Collection Vehicle (DCV) and manually using Manually Rated Route (MRR) procedures. Roads having brick or cobblestone surfacing are not normally surveyed with the DCV, but are manually rated for condition rating.

The FHWA RIP is implemented based on the premise that an accurate pavement surface condition assessment can be accomplished using automated crack detection technology as applied to digital images. Various methods of pavement condition assessment have been developed over the years with varying degrees of accuracy and acceptance. The use of digital photography to record pavement images and subsequent crack detection and classification has undergone continuous improvements over the past decade. Digital cameras with increasingly superior resolution and high definition have become more affordable, and the proprietary programming code and algorithms have been improved in crack detection software.

With the use of quality digital photography and automated crack detection software, FHWA RIP is tasked with executing a pavement condition assessment on a network of roughly 5,700 miles of National Park Service roads and parkways. Because a subset of roads will be collected multiple times this cycle, the total collection length will be around 13,000 miles. Foremost in setting up the basis of pavement distress identification is employing the distress identification protocols used by FHWA. There is no single distress identification system that is universal among entities conducting a program of distress identification. For the purpose of the NPS RIP, FHWA employs distress identification protocols that are specific to this program.

FHWA has referenced the “*Distress Identification Manual for the Long-Term Pavement Performance Program*”, Publication No. FHWA-RD 03-031, June 2003, as the point-of-reference for distress types on NPS pavement. In truth, the FHWA RIP distress types are similar to those described in the LTPP manual with some modifications. This document, “*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020*” was developed using the “*Distress Identification Manual for the Long-Term Pavement Performance Program*” as a guideline. Definitions of severity levels based on crack width contained in this document adhere to the LTPP Distress ID Manual. Modifications have been made to the definition of Alligator and Longitudinal Cracking and determination of Alligator Cracking severity. This manual also addresses Rutting and Roughness and its application to RIP.

Cycle 6 has launched in the spring of 2014 and will again comprise all parks, large and small, that are served by paved roads and/or parking areas. For Cycle 6, roughly 333 large and small parks will have all paved routes and parking areas collected at least once in the cycle, some will have multiple collections depending on the size of the park and the functional class of the route.

This “*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020*” will be used as a reference resource in crack detection and classification, determination of distress severity and extent, and in the calculation of distress index values for the FHWA RIP Cycle 6.

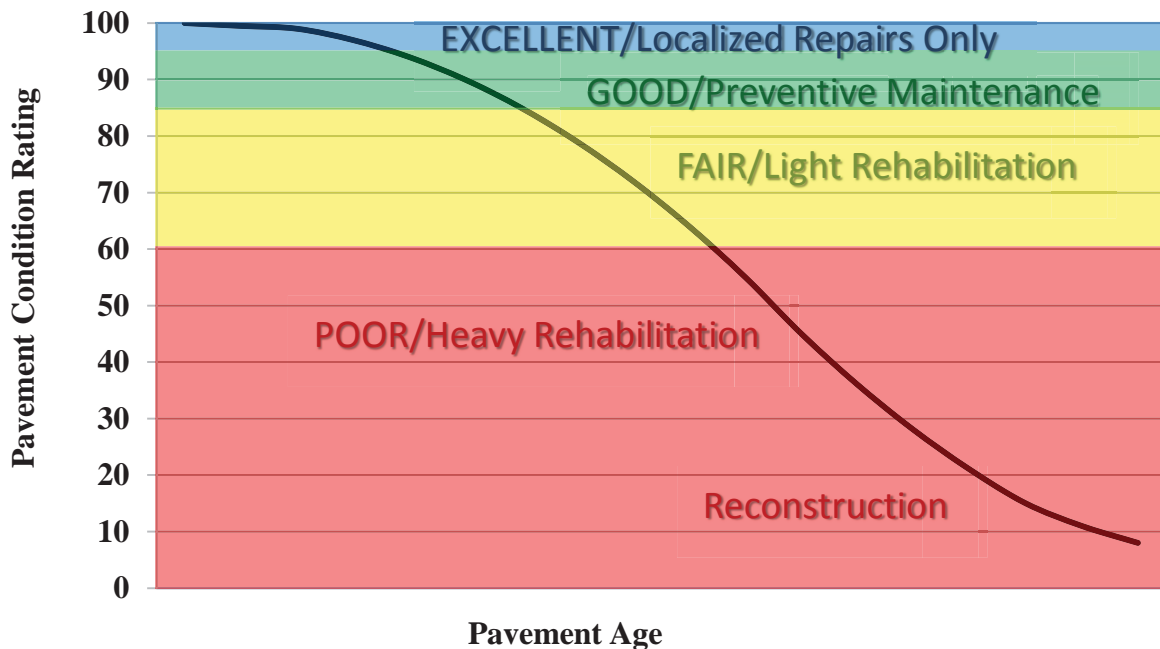
Explanation of the Condition Descriptions

In addition to the RIP Index changes that were implemented in Cycle 5, we will also aim to provide greater assistance in translating good/fair/poor categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the types of treatments that should be considered now and into the future.

- Excellent/New: PCR of 95-100. Pavements in this range will require only spot repairs
- Good: PCR of 85-94. Pavements in this range will likely be candidates for preventive maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.
- Fair: PCR of 61-84. Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include single-lift overlays up to 2.5 inches in total thickness, milling and overlays.
- Poor: PCR of 60 or below. Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.

At this time, specific maintenance and rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions the year in which the data was collected. For further information or to obtain additional PMS data from our (HPMA) please contact the Eastern Federal Lands pavement team.

Condition Categories and Treatments



Description of Pavement Treatment Types

1. **Preventive Maintenance** is a planned strategy of cost-effective treatments to an existing roadway system and its appurtenances that preserves the system, retards future deterioration, and maintains or improves the functional condition of the system (without significantly increasing the structural capacity). Preventive maintenance is typically applied to pavements in good condition having significant remaining service life. As a major component of pavement preservation, preventive maintenance is a strategy of extending the service life by applying cost-effective treatments to the surface or near-surface of structurally sound pavements. Examples of preventive treatments include asphalt crack sealing, chip sealing, slurry or micro-surfacing, thin and ultra-thin hot-mix asphalt overlay, concrete joint sealing, diamond grinding, dowel-bar retrofit, and isolated, partial and/or full-depth concrete repairs to restore functionality of individual slabs.
2. Pavement Rehabilitation consists of structural enhancements that extend the service life of an existing pavement and/or improve its load carrying capacity. Rehabilitation techniques include restoration treatments and structural overlays. Rehabilitation projects extend the life of existing pavement structures either by restoring existing structural capacity through the elimination of age-related, environmental cracking of embrittled pavement surface or by increasing pavement thickness to strengthen existing pavement sections to accommodate existing or projected traffic loading conditions. Two sub-categories result from these distinctions, which are directly related to the restoration or increase of structural capacity.
 - **Light Rehabilitation (L3R)** - Examples include single-lift overlays up to 2.5 inches in total thickness and milling and overlays for flexible pavements
 - **Heavy Rehabilitation (H3R)** – Requires rehabilitation with grade improvement. H3R stands for resurfacing, restoration, and rehabilitation projects. H3R projects typically involve multi-depth (overlays greater than 2.5 inches) pavement improvement work (short of full-depth replacement) and targeted safety improvements. H3R projects generally involve retention of the existing three-dimensional alignment.
3. **Reconstruction (4R)** is defined as the replacement of the entire existing pavement structure by the placement of the equivalent or increased pavement structure. Reconstruction usually requires the complete removal and replacement of the existing pavement structure. Reconstruction may utilize either new or recycled materials incorporated into the materials used for the reconstruction of the complete pavement section. Reconstruction is required when a pavement has either failed or has become functionally obsolete.

Appendix A

Methodology for Determining Condition Ratings with the Data Collection Vehicle (DCV)

Surface Distresses Identified by the Data Collection Vehicle

Surface Condition Rating – SCR

Surface distresses are measured in the primary lane only. In the classification and measurement of all paved surface condition data, results will be reported in the database in record intervals of 0.02 miles (105.6 feet) (smallest granularity) along the route.

Surface distresses and rutting are determined from digital images that provide both the longitudinal and transverse profile. The images also provide an elevation profile of the road, creating a 3-dimensional image of the paved surface.

- Transverse Cracks
- Longitudinal Cracks
- Alligator Cracks
- Patching/Potholes
- Rutting

Each of the five surface distresses is assigned a computed surface distress index

- Transverse Crack Index
- Longitudinal Crack Index
- Alligator Crack Index
- Patching/Pothole Index
- Rutting Index

Surface distress data are classified as listed above, measured for severity, and quantified for extent. Classification, severity, and extent of these five surface distresses comprise the three main elements for calculation of Surface Condition Rating (SCR).

In addition to the five surface distresses, a Structural Crack Index is computed, which is a combination of the Longitudinal Crack Index and the Alligator Crack Index. The Structural Crack Index is then used in lieu of the LC and AC indices to compute SCR.

Roughness Condition Index - RCI

Additional condition data measured by DCV (lasers and accelerometers)

- Roughness (IRI)

Roughness is measured by FHWA's DCV and reported as International Roughness Index (IRI) in inches/mile. Using IRI, the Roughness Condition Index (RCI) is computed.

Pavement Condition Rating - PCR

Using the SCR (computed from the five surface distresses) and the RCI, an overall Pavement Condition Rating (PCR) is computed. The formula for PCR is:

$$\text{Asphalt PCR} = (0.60 * \text{SCR}) + (0.40 * \text{RCI})$$

$$\text{Concrete PCR} = \text{RCI}$$

A detailed description of each distress index formula, roughness index formula, SCR and PCR is provided in this document.

Each classified surface distress will fall into one or more severity - LOW, MEDIUM, or HIGH based on criteria listed. For each severity, an extent is established based on the measured quantity of the distress within that severity. Within each severity individual distresses are assigned a Maximum Allowable Extent (MAE). For example, LOW severity transverse cracking may be allowed up to 21.1 cracks within a 0.02 mile interval before it reaches MAE and fails.

The index formulas are based on a scale of 0 to 100. A PCR index value of 100 would indicate a “new” road with no measurable distresses or rough ride. A PCR value of 60 is determined to be terminable serviceability and the road is considered failed. The range of index values with condition descriptors is:

POOR = (less than or equal to 60), **FAIR**= (61 – 84), **GOOD**= (85 - 94), **EXCELLENT**= (95 - 100)

Index values are generally computed based on cumulative deducts of the measured severities. As shown in the index formulas below, as any single severity reaches or exceeds MAE, the index computes to a value of 60 or less, and the road fails for that 0.02 interval.

Note: *As a result of a unique combination of measured surface distresses and IRI, index values occasionally compute to less than 0 or greater than 100. In this instance, an index value less than 0 defaults to 0. Index values greater than 100 defaults to 100. For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.*

On the following page, Table 1 summarizes the different types of distresses measured.

ASPHALT-SURFACED PAVEMENT DISTRESS TYPES WITH RUTTING AND ROUGHNESS				
Distress Type	Units Of Measure	Converted To	Defined Severity Levels?	Measured By
Alligator Cracking	Square Feet	Percent of Lane Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Transverse Cracking	Linear feet	Number of Cracks Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Longitudinal Cracking	Linear feet	Percent of Lane Length Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Patching / Potholes	Square Feet	Percent of Lane Per 0.02 Mile	No	3 Dimensional pavement imaging system
Rutting	Inches	Rut Depth Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Roughness	IRI	*RCI Per 0.02 Mile	No	DCV – Lasers / Accelerometers

**Note: Roughness is measured on concrete roadways, but surface distresses and rutting are not measured. For concrete, PCR = RCI*

Table 1. Distress summary

Alligator Cracking

Description:

Alligator cracking is considered a combination of fatigue and block cracking. It is a series of interconnected cracks in various stages of development. Alligator cracking develops into a many-sided pattern that resembles chicken wire or alligator skin. It can occur anywhere in the road lane. Alligator cracking must have a quantifiable area.

Severity Levels:

LOW

An area with little to no interconnecting cracks with no visible spalling. Cracks are less than or equal to a mean width of 0.25 in. (6mm). Cracks in the pattern are no further apart than 1 foot (0.328 m). May be sealed cracks with sealant in good condition and a crack width that cannot be determined.

MEDIUM

An area of interconnected cracks that form a complete pattern. Cracks may be slightly spalled. Cracks are greater than 0.25 in. (6 mm) but less than or equal to 0.75 in. (19 mm) or any crack with a mean width less than or equal to 0.75 in. (19 mm) and adjacent low severity cracking. Cracks in the pattern are no further apart than 6 in. (150 mm).

HIGH

An area of interconnected cracks forming a complete pattern. Cracks are moderately or severely spalled. Cracks are greater than 0.75 in. (19mm) or any crack with a mean width less than or equal to 0.75 in. (19mm) and adjacent medium to high severity random cracking.

A combination of observed crack width and crack pattern is used to determine overall severity of alligator cracking. Based on above description of each severity, the highest level of crack width and crack pattern determines overall severity as shown in Table 2.

ALLIGATOR CRACKING SEVERITY LEVELS				
	CRACK SEVERITY	CRACK PATTERN		
		LOW	MED	HIGH
CRACK WIDTH	LOW	LOW	MED	HIGH
	MED	MED	MED	HIGH
	HIGH	HIGH	HIGH	HIGH

Table 2. Alligator Crack Severity Levels

Longitudinal Cracking

Description:

Longitudinal cracking occurs predominantly parallel to the pavement centerline. It can occur anywhere within the lane. Longitudinal cracks occurring in the wheelpath may be noteworthy.

Severity Levels:

LOW

Cracks with a mean width less than or equal to 0.25 in. (6 mm). This also includes sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM

Cracks with a mean width greater than 0.25 in. (6 mm) but less than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH

Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Transverse Cracking

Description:

Transverse cracking occurs predominantly perpendicular to the pavement centerline. It can occur anywhere within the lane.

Severity Levels:

LOW

Cracks with a mean width of less than or equal to 0.25 in. (6 mm). Sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM

Cracks with a mean width greater 0.25 in. (6 mm) and less than or equal to 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH

Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Patching and Potholes

Description:

Patching is an area of pavement surface that has been removed and replaced with patching material or an area of pavement surface that has had additional patching material applied. Patching may encompass partial lane or full lane width. On full lane width patching; the total, contiguous length of patch may not exceed 0.100 mi. (0.161 km). (Any full-lane patch exceeding 0.100 mi. in length is considered a pavement change). Patching must have a quantifiable area.

Potholes are bowl-shaped holes of various sizes occurring in the pavement surface.

Manhole covers should not be rated as patches unless there is obvious patching around the manhole.

Speed bumps should not be rated as patches

Severity Levels:

There are no stratified severities for Patching and Potholes. They either are present or they are not.

RUTTING

Description:

Rutting is a longitudinal surface depression in the wheelpath.

Severity Levels:

LOW

Ruts with a measured depth of 0.20 inches to 0.49 inches
Ruts less than 0.20 in. are not included in the distress calculations.

MEDIUM

Ruts with a measured depth of 0.50 inches to 0.99 inches

HIGH

Ruts with a measured depth greater than 1.00 inch

ROUGHNESS

Description:

Roughness is the measurement of the unevenness of the pavement in the direction of travel. It is measured in units of IRI (International Roughness Index), inches per mile, and is indicative of ride comfort.

Severity Levels:

There are no stratified severity levels for roughness. The roughness (or smoothness) of a road surface can be defined by IRI in the following table.

IRI DESCRIPTIONS	
Type of Road	Typical IRI (in/mile)
New Road, no noticeable roughness	<90
Small level of roughness	90 – 126
Road of average roughness	126 – 190
Road with above average roughness	190 – 253
Road with severe roughness	253 – 380
Nearly impassable	>380

Table 3. International Roughness Index

Roughness Collection Parameters

On shorter roads with a lower speed limit the usefulness in collecting and reporting IRI is negligible. Lower, inconsistent speeds can lead to a less accurate IRI value. Therefore RIP has put in place the following protocols for reporting IRI.

International Roughness Index (IRI) is not reported on routes with the following criteria:

- Posted speed limit is less than 25 mph
- Length of route is less than 0.50 miles

When a collected route has a posted speed limit of at least 25 mph and length of at least 0.50 miles, IRI will be collected except on road sections where the speed is less than 20 mph

Other situations may arise where the speed and length factors are met, but reporting IRI could lead to an inaccurate PCR. RIP will determine whether or not it is reasonable to report IRI on these routes on a case by case basis.

Index Formulas

Note: All index formulas listed below contain MAE applicable to 0.02 mile (105.6 feet) interval.

Alligator Crack Index

$$\text{AC_INDEX} = 100 - 40 * [(\% \text{LOW} / 35) + (\% \text{MED} / 15) + (\% \text{HI} / 5)]$$

Where:

The values %LOW, %MED and %HI report the percentage of the observed pavement (0.02 mile, primary lane) that contains alligator cracking within the respective severities. These values range from 0 to 100.

%LOW = Percent of total area (primary lane, 0.02 in length), low severity

%MED = Percent of total area (primary lane, 0.02 in length), medium severity

%HI = Percent of total area (primary lane, 0.02 in length), high severity

Percent of total area is computed as:

$$\frac{\text{square foot area of alligator crack severity}}{(0.02 \text{ mile}) * (\text{lane width})}$$

In AC_INDEX, the denominators 35, 15, and 5 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 35% of low severity alligator cracking for a 0.02 interval before failure, 15% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Longitudinal Crack Index

$$\text{LC_INDEX} = 100 - 40 * [(\% \text{LOW} / 175) + (\% \text{MED} / 75) + (\% \text{HI} / 25)]$$

Where:

The values %LOW, %MED, and %HI report the length of longitudinal cracking within each severity as a percent of the section length (0.02 mile, primary lane). These values are greater than or equal to 0 and can exceed 100.

%LOW = Percent of interval length (primary lane, 0.02 in length), low severity

%MED = Percent of interval length (primary lane, 0.02 in length), medium severity

%HI = Percent of interval length (primary lane, 0.02 in length), high severity

Percent of interval length is computed as:

$$\frac{\text{length of respective longitudinal cracking}}{(0.02 \text{ mile}) * (105.6 \text{ ft.})}$$

In LC_INDEX, the denominators 175, 75, and 25 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 175% of low severity longitudinal cracking for a 0.02 interval before failure, 75% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Structural Crack Index

$$SC_INDEX = [100 - ((100 - AC_INDEX) + (100 - LC_INDEX))]$$

Structural Crack Index is a combination of Alligator Cracking and Longitudinal Cracking, and is used in the SCR formula in lieu of AC and LC separately.

Transverse Crack Index

$$TC_INDEX = 100 - 40 * [(LOW / 21.1) + (MED / 4.4) + (HI / 2.6)]$$

Where:

The values LOW, MED and HI report a count of the total number of transverse cracks (reported to three decimals) within each severity level, where one transverse crack is equal to the lane width. These values are greater than or equal to 0.

LOW = Number of cracks in interval (primary lane, 0.02 in length), low severity

MED = Number of cracks in interval (primary lane, 0.02 in length), medium severity

HI = Number of cracks in interval (primary lane, 0.02 in length), high severity

Number of cracks is computed as:

$$\frac{\text{Total length of transverse cracks}}{\text{Lane width}}$$

In TC_INDEX, the denominators 21.1, 4.4, and 2.6 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 21.1 low severity transverse cracks for a 0.02 interval before failure, 4.4 cracks for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Patching Index

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

Where:

The value %PATCHING reports the percentage of the observed pavement (0.02 mile, primary lane) that contains patching/potholes. This value ranges from 0 to 100.

%PATCHING = Percent of total area (primary lane, 0.02 in length)

Percent of total area is computed as:

$$\frac{\text{square foot area of patching/potholes}}{(0.02 \text{ mile}) * (\text{lane width})}$$

There are no severity levels for patching. It either exists or does not.

There are no severity levels for patching. It either exists or does not. In PATCH_INDEX, the denominator 80 is the Maximum Allowable Extent (MAE) for each severity. In other words, we will allow up to 80% patching for a 0.02 interval before failure. As you can see, if patching/potholes reaches MAE the resulting index value is 60, or failure.

Rutting Index

$$\text{RUT_INDEX} = 100 - 40 * [(\% \text{LOW} / 535) + (\% \text{MED} / 205) + (\% \text{HI} / 40)]$$

Where:

20 rut depth measurements are taken per 0.02 interval for each of 2 wheel paths (left and right), resulting in a total of 40 measurements taken for both wheel paths. Each wheelpath is analyzed independently for rut severities. The values %LOW, %MED and %HI report the percentage of the 40 measurements within that severity. These values range from 0 to 200.

%LOW = Percent of LOW ruts in left wheelpath based on 20 ruts, plus percent of LOW ruts in right wheelpath based on 20 ruts.

%MED = Percent of MED ruts in left wheelpath based on 20 ruts, plus percent of MED ruts in right wheelpath based on 20 ruts.

%HI = Percent of HI ruts in left wheelpath based on 20 ruts, plus percent of HI ruts in right wheel path based on 20 ruts.

Percent of rut measurements within each severity can also be computed as:

$$\frac{\text{(total number of ruts within each severity in both wheelpaths)}}{20} \times 100$$

In RUT_INDEX, the denominators 535, 205, and 40 are the Maximum Allowable Extents for each severity; Low, Medium, and High, respectively. Only the MAE for high severity rutting can fail a section, since 200% of *only* low severity ruts would yield a rut index of 85 and 200% of *only* medium severity ruts would yield a rut index of 61.

Roughness Condition Index (Asphalt)

$$\text{RCI} = 32 * [5 * (2.718282^{(-.0041 * \text{AVG IRI}))}]$$

Where:

The value AVG IRI reports the average value of the Left IRI and Right IRI measurements for the interval (0.02 mile, primary lane). This value can range from approximately 40 to 999.0.

Average IRI is computed as:

$$\frac{(\text{Left wheelpath IRI}) + (\text{Right wheelpath IRI})}{2}$$

There is no applicable threshold for failure for this index.

Roughness Condition Index (Concrete)

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

For concrete, PCR = RCI

Surface Condition Rating Index

SCR = Lowest Index Value Of: [SC_INDEX, TC_INDEX, PATCH_INDEX, RUT_INDEX]

Note: The modified SCR equation above combines AC_INDEX and LC_INDEX, and considers that a single AC/LC index value of the Structural Crack Index (SC_INDEX). The lowest of the four computed index values (SC_INDEX, TC_INDEX, PATCH_INDEX, or RUT_INDEX) becomes the SCR.

Where:

See above for determinations of SC_INDEX, TC_INDEX, PATCH_INDEX and RUT_INDEX.

The threshold for failure for this index is SCR = 60. Data Collection Vehicle Subsystems

Data on paved roads is collected by FHWA using a Pathway Services Inc. Data Collection Vehicle (DCV), called a PathRunner. The DCV is driven in the primary-direction lane at posted speed limits and less.

Cameras

Forward-facing and rear-facing video is collected as jpeg digital imagery files at a frequency of every 26.4feet.

Two forward-facing cameras are mounted above the vehicle cab, one pointed straight ahead and the other to the right shoulder providing seamless roughly 120 degree viewing. A third camera is mounted in the rear of the vehicle, recording the left shoulder.

CAMERA SPECIFICATIONS TWO FORWARD / ONE REAR FACING CAMERA	
Camera lens/type	Prosilica GT 2750 (GigE Technology)
Image format	*.jpg
Image resolution	2750 x 2200, 18 frames/second
Image pixel size	depends on distance
Zoom ratio	16mm Fixed
Iris range	Aperture Range F 1.8 – Infinity (P-Iris, Automatic)

Pavement Imaging and Rutting

High resolution rutting data and surface imaging are collected in a single data stream using a three-dimensional (3D) pavement surface transverse profile data acquisition system. The 3D camera captures a laser line as it is projected over the pavement surface and uses the location of this line to measure the height deviations of the pavement surface. These height deviations can be used to calculate rutting in both wheelpaths. These deviations also provide a grayscale image detailing the change in height throughout the surface, i.e. providing depth measurements for cracking.

THREE-DIMENSIONAL PAVEMENT SURFACE AND TRANSVERSE PROFILE DATA ACQUISITION SYSTEM	
Surface Image Specifications	
Image size	1536 pixels/scan @ 3000 Hz
Image width	4 meters (3950 mm nominal)
Laser class	3B
Power	16W (Two lasers @ 8W Ea)
Vehicle speed limitations	62 mph
Environment	Dry pavement, day or night
Sensor size (approximate)	1536 pixels x 512 pixels
Image display length	26.4 feet
Rutting Specifications	
Reported rut depth units	Inches
Vehicle speed limitations	Up to 62 mph
Sampling rate	3000 profiles/second
Transverse resolution	1536 points/profile
Transverse field-of-view	14 feet
Depth accuracy (nominal)	<1mm
Environment	Dry pavement, day or night, above 32 degrees F
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

Distance Measuring Instrument (DMI)

The DMI (Distance Measuring Instrument) obtains road length measurements that are accurate to 0.15% for speeds up to 60 mph. The DMI is connected to the hub of the rear wheel on the driver's side, and is calibrated to the revolutions of the rear vehicle axle on a regular basis.

Roughness (IRI)

IRI SPECIFICATIONS	
Reported IRI units	Inches/mile
Vehicle speed limitations	12-62 mph
IRI equipment certification	Texas Transportation Institute (TTI)
Wavelengths accommodated	0.5 feet to 300 feet
IRI computed & reported	World Bank Technical Paper Number 46
Environment	Dry pavement, day or night, above 32 degrees
Adherence to specifications	ASTM E950 Class 1 & AASHTO M 328

The collection system includes a South Dakota type laser profiler manufactured based on active Class 1 ASTM E950 standards. The dynamic profile of the pavement surface is collected from which the IRI roughness data is computed. The sensors include one accelerometer on each wheelpath, one height sensor (laser) on each wheelpath, and a distance transducer.

GPS & Inertial Systems

GPS is collected by an onboard system employing Omnistar real time correction and a spinning gyroscope to provide accurate positioning data in instances of satellite obstruction. All GPS coordinates are tied to an image and linear distance measurements.

GPS SPECIFICATIONS	
Static accuracy	Sub-meter
Dynamic accuracy	2-3 meters
Receiver	12 satellite tracking
Coordinate system	Lat Lon WGS 84
Environment	Day or night
Cross-slope	± 1.75%
Grade	± 1.75%
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

*NOTE – GPS accuracy is dependent on many different factors. Satellite constellation, tree coverage, GPS receiver quality, and real-time correction availability can all affect the locational and elevation accuracies. The elevation (z coordinate) accuracy is less dependable than locational or horizontal accuracy (x/y coordinates or latitude/longitude). In areas of heavy tree coverage or poor satellite constellations, elevation data can vary by as much as +/- 100 feet.

Appendix B

**Methodology for Determining Condition Ratings
Using Manual Rating Procedures**

Description of Manual Rating Methods

In 2013, the Federal Highway Administration updated existing Manual Rating Procedures in an effort to better align pavement conditions for Manually Rated Routes and Parking with the Highway Pavement Management Application (HPMA). HPMA is the Pavement Management System used by the FHWA to store inventory and condition data from the Road Inventory Program (RIP) and forecast future performance using prediction models. HPMA uses pavement condition data (collected by the Road Inventory Program) to develop life cycles for pavements and recommend treatments to maximize useable pavement life while minimizing costs associated with maintenance and repair.

The Federal Highway Administration (FHWA) developed a set of manual rating methods for pavement that are appropriate for Federal Roadways. Two different methods were developed for linear roads and a separate method was developed for parking areas and nonlinear roads. These methods employ a 0 to 100 rating scale and improve consistency and objectivity in the manual evaluation of surface distresses. They are compatible with ratings that are collected by the automated Data Collection Vehicle (DCV).

- The first of the two manual evaluation methods for roads uses rating criteria to assign index values to each distress type based on a visual evaluation of severity and extent.
- The second manual evaluation method for roads is very time demanding and is best employed on only a select set of routes which may have the highest visitor use and require a more intensive assessment. This method will be used for the Manual Rating of Function Class 1, 2, 7, and 8 Roads. This method is based on measurements that are recorded for each instance of a surface distress. These measurements are converted into index values using conversion formulas.
- Parking areas and non-linear roads are rated similar to the first method shown above, however, there are some slight differences due to the non-linear nature.

The details and criteria used for each of these rating methods are outlined below.

Visual Inspection Method for Manually Rating Secondary Roads

The visual inspection method for manually rated roads uses condition rating criteria that have been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the roadway. This method is used for secondary roads that are Functional Class 3, 4, 5, and 6. This constitutes the majority of manually rated roads collected by the Road Inventory Program.

Rating Section Lengths

For this method, Manually Rated Roads are rated in sections. These sections may be made based on length of changes in surface type or condition as described below. The ratings are then aggregated to give an overall rating for the Route:

- Rating sections should be no longer than 0.25 miles in order to keep the area being rated manageable.
- A new rating section may be started based on changes in condition, width, or surface type if these changes represent a significant portion of the route (are not isolated instances).
- If the road condition, width, and surface type remain constant then new sections do not need to be created unless the road exceeds 0.25 miles.

Rating Criteria

For this method, Manually Rated Roads are evaluated using a visual inspection of the six distress types listed below. Each distress is assigned one of five index values. An overall Surface Condition Rating (SCR) and Pavement Condition Rating (PCR) are calculated based on these index values.

- Alligator Cracking
 - Rating based on percentage of road surface affected
- Longitudinal Cracking
 - Rating based on severity level (crack width) and percentage of road section length of longitudinal cracks
- Transverse Cracking
 - Rating based on crack width, crack spacing, and percentage of surface affected
- Patching
 - Rating based on percentage of road surface affected
- Rutting
 - Rating based on percentage of road section length affected by visible rutting (>1 inch depth) that requires remediation
- Roughness
 - Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Concrete Routes also receive a PCR rating based on visual evaluation of the following six distress types.

- Slab Faulting at Joints
- Slab Cracking and breakup
- Surface Delamination and Pop-outs
- Joint Distresses
- Patching

Distress Measurement Method for Manually Rating Primary Roads

A more intensive and time demanding assessment than our standard method was developed for Primary roads that are functional class 1, 2, 7, or 8. These high visitation roads are usually accessible by the automated Data Collection Vehicle but in rare instances may need to be manually rated. The method developed is based on measuring each instance of a distress. These measurements are totaled over each section length being measured and are then converted into index values between 0 and 100 (100 being a road with no distress) using index formula equations outlined below. The goal of this method is to produce measured index values which are directly comparable to the automated DCV.

Rating Section Lengths

For the distress measurement method roads are broken into sections in order to rate. Distress measurements are totaled for each section separately in order to determine the index value for that particular section. The section length to be rated is determined based on the following rules:

- Rating sections are between 0.25 and 0.50 miles long
- A new rating section is created if there is a significant change in condition or pavement width
- If there are no significant changes in condition or pavement width, rating sections are broken at equal intervals, typically 0.50 miles

Manual Distress Measurements

Alligator Cracking

- Alligator cracking is measured by area (square feet). Instances of Alligator cracking are measured along the length and multiplied by the average width of the distressed area.
- The index for alligator cracking takes the total area of cracking compared to the interval length and converts it to a percentage. That percentage is then input into an index formula that yields a value between 0 and 100 (0 being the most distressed).
- Severity levels are not defined for manually measured Alligator cracks. The Alligator Crack Index formula is calculated based on an assumption of medium severity.

Longitudinal Cracking

- Longitudinal cracking (cracking in the direction parallel to the roadway) is measured by length (ft.).
- The index for longitudinal cracking takes the total length of cracking compared to the interval length and converts it to a percentage broken down by severity. That percentage is then input into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Longitudinal Cracks. Lower severity cracks are those with a mean width of less than 0.25 inches. Sealed cracks with sealant in good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Transverse Cracking

- Transverse cracking (cracking in the direction perpendicular to the roadway) is measured by length (ft).
- The index for transverse cracking takes the total number of cracks (1 crack would encompass the full lane) broken down by severity. The total numbers of each severity are then put into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Transverse Cracks. Lower severity cracks are those with a mean width of less than or equal to 0.25 inches. Sealed cracks with sealant in

good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Patching and Potholes

- Patching and Potholes are measured by area (square feet). Instances of Patching are measured along the length and multiplied by the average width of the patch.
- Instances of full lane width patching cannot be longer than 0.100 miles, otherwise it should be considered a pavement change rather than a distress.
- There are no stratified severities for Patching. It is either present or it is not.

Rutting

- Visible rutting is measured by length (ft.) in each wheel path. Only visible ruts are rated, which are ruts greater than 1 inch deep.
- All rutting recorded in a manual rating is considered to be high severity (> 1 inch). Lesser severities are generally not distinguishable in a visual inspection.

Roughness

- Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Index Formulas for Distress Measurement Method:

The method used to convert distress measurements into index values is shown below. The Surface Condition Rating and Pavement Condition Rating are calculated based on these index values.

Alligator Crack Index for Manual Rating:

$$AC_INDEX = 100 - 40 * (\%ALLIGATOR / 15)$$

Where:

%ALLIGATOR = Percent of total area of section being rated that contains Alligator cracking.

Longitudinal Crack Index for Manual Rating:

$$LC_INDEX = 100 - 40 * [(\%LOW / 175) + (\%MED / 75)]$$

Where:

%LOW = Percent length of longitudinal cracks where crack width less than or equal to 0.25 inches

%HIGH = Percent length of longitudinal cracks where crack width greater than 0.25 inches

Transverse Crack Index for Manual Rating:

$$TC_INDEX = (100 - 40) * [(LOW / 21.1) + (MED / 4.4)]$$

Where:

LOW = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width \leq 0.25 inches

HIGH = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width $>$ 0.25 inches

Number of cracks is computed as:
Total length of transverse cracks/Lane width

Patching Index for Manual Rating:

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

Where:

%PATCHING = Percentage of pavement section that contains patching/potholes.

Rutting Index for Manual Rating:

$$\text{RUT_INDEX} = 100 - 40 * (\% \text{RUTTING} / 40)$$

Where:

%RUTTING = Percentage length of high severity rutting within the section being measured.

Method for Manually Rating Paved Parking Areas and Non-Linear Roads

Parking areas are evaluated based on a visual inspection using condition rating criteria that has been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the parking area. This overall condition rating is linked to the level of repair and rehabilitation practices required.

A distress index is determined for each of the distresses listed below for Asphalt and Concrete Parking areas. The overall Pavement Condition Rating (PCR) of the parking lot is driven by the most severe distress present.

Rating Criteria:

Asphalt Parking Distress Types

- Alligator Cracking
 - Rating based on percentage of road surface affected
- Longitudinal, Transverse and Block cracking
 - Rating based on crack width, crack spacing, and percentage of surface affected
- Rutting and Distortions
 - Rating based on percentage of road surface affected
- Hot Mix Asphalt Patches
 - Rating based on overall percentage of HMA patches
- Potholes and Cold Patches
 - Rating based on percentage of road surface affected
- Surface Raveling and Bleeding
 - Rating based on percentage of road surface affected

Concrete Parking Distress Types

- Slab Faulting at Joints
 - Rating based on height differential between adjacent slabs or pieces of broken slabs
- Slab Cracking and breakup
 - Rating based on quantity of cracks and if slab is acting to able distribute load as designed
- Surface Delamination and Pop-outs
 - Rating based on percentage of road surface affected to include pop-outs, spalls and surface delamination
- Joint Distresses
 - Rating based on sealant condition and concrete distresses at/or adjacent to joints
- Patching
 - Rating based on percentage of road surface affected

Curb Inspection and Treatments

During inspections of manually rated parking lots and routes, the curb reveal and overall curb condition are evaluated. The curb condition is used to determine a recommendation.

Curb Reveal

The vertical distance on the curb face from the gutter flow line or pavement surface to the top of curb. When resurfacing adjacent to curb, the resulting curb reveal should be no less than 4 inches. Additionally, when resurfacing adjacent to a gutter, the resulting pavement surface should be flush with the gutter pan. In cases where a resurfacing would violate either of these parameters, the surface may need to be milled or removed to adjust to these field conditions.

Curb Recommendations

The following treatment categories are based on the overall percentage of distresses along the entire curb structure for a specific pavement structure. Distresses include spalling, cracking, loss of material and any other damage which prevents the curb from conveying storm runoff or failing to perform in its intended function.

- Overall curb damage ranging 0%-5%:
 - DO NOTHING
- Overall curb damage ranging 5%-20%
 - LIGHT REPAIR
- Overall curb damage ranging 20%-50%
 - MODERATE REPAIR
- Overall curb damage greater than 50%:
 - REPLACE

GPS for Manually Rated Roads and Parking

GPS information for Manually Collected Cycle 6 Routes will be recorded using the latest hardware and software by TRIMBLE 6000 Series GeoXT. Cycle 6 GPS collection units will allow access to GPS and GLONASS, improving overall GPS reliability, accuracy and precision to submeter accuracy.

Additionally, the new GPS units have an enhanced ability to collect accurate signals underneath tree cover or adjacent to buildings or natural terrain with extreme vertical gradations that typically reduce GPS accuracy. Trees and buildings create “satellite shadows”, limiting the areas where you can reliably collect high-accuracy GPS data. The updated GPS receiver will deliver improved usable data under tree canopy or in natural or urban canyons. Routes that were previously collected accurately will not be recollected in Cycle 6.

TRIMBLE 6000 SERIES GeoXT GPS SPECIFICATIONS	
Receiver	Trimble Maxwell™ 6 GNSS chipset
Channels	220 channels
Systems	GPS / GLONASS / WAAS
Accuracy	Sub-meter
Operation Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Cellular and Wireless	UMTS / HSDPA / GPRS / EDGE / Wi-Fi / Bluetooth
Internal Still Camera w/ GEOTAG ability	Autofocus 5 MP (JPG) and WMV w/ Audio

Appendix C
Description of Cycle 6 Deliverables

Interim Report Delivery

Partial report will be primarily focused on manually collected routes. The report will be released approximately four months after manual collection of parking lots and other manually collected routes to provide NPS an immediate report on the condition of routes collected manually.

The Interim Report Delivery consists of an Interim Report PDF that contains the following:

- Parking lot and manually rated route conditions
- Route ID Reports
- Route ID Changes Report.

Please note that since the Data Collection Vehicle will have not collected data at this point in time, the following will not be in the Interim Report:

- No park summary information will be provided in the report
- No DCV data will be provided in report
- No road logs will be provided in report
- No maps will be provided in report
- Any mileages collected will be approximate

All data provided in the Interim Report will also be included in the Final Report.

Final Report Delivery

The Final Report will contain all data collected by Manual Inspection and the Data Collection Vehicle. All information provided in the Interim Report will be included in the Final report. Manually collected information reported in the Interim Report may be updated in the Final Report if pavement conditions have substantially changed between the Manual Inspection and Data Collection Vehicle Inspection or other unforeseen circumstances.

The final report will be released approximately 8 months after the Data Collection Vehicle completes its collection of that specific park.

Data included in the Final Report package consists of the following:

- **Condition Photos:** All photos taken during Cycle 6.
- **Data Video:** Data and video of each route collected by the DCV will be viewable through PATHVIEW software. PATHVIEW Software and training will be provided to NPS personnel by Eastern Federal Lands.
- **GPS on All Rated Routes:** All GPS data collected from the DCV will be provided. Parking areas, some roads, and other paved areas that are not fully drivable with the DCV are collected manually by field technicians. GPS is collected for these routes using portable Trimble GPS units.
 - GPS will be provided as Shapefiles and KMLs
 - All GPS data related to road collection will be linear referenced to the collected length
- **Geodatabase – Background and Metadata:** In addition to this park report, a geodatabase containing both tabular and spatial data specific to this park has been provided.
 - All data disseminated in the preceding report has been obtained from the tables and fields within said geodatabase. The geodatabase can be referenced for tabular data via Microsoft Access or for both tabular and spatial data via ESRI's ArcGIS Suite of software which consists of; ArcMap, ArcCatalog and ArcExplorer.
 - Consolidating the RIP data into one database creates a seamless relationship of tables and geographic data. It allows RIP to facilitate easier updates and enhancements in the future. A geodatabase can be thought of as simply a database containing spatial data. A complete and thorough description of the tables and fields contained within this geodatabase can be found in the metadata. The metadata is attached directly within the geodatabase and can be accessed via ESRI's ArcCatalog.
- **Report (RIP Report and Route ID):** A PDF report will be provided that includes a list of all routes and key data. Condition reports for each route will be included. All changes, additions and deletions to any route will be included in the report. Features along routes will not be collected in Cycle 6.

Partial DCV Collections

Additional Partial DCV Collections may be done on specific parks depending on their size and overall mileage of routes within its boundaries during Cycle 6. Parks with greater than 10 miles of paved roadways will receive at least one additional Partial DCV collection during Cycle 6. Data collected during these Partial DCV Collections will not result in the delivery of an additional report to the park.

Data collected by the DCV during Partial DCV Collection will be used to improve HPMA modeling by providing additional “snapshots in time” of park pavement conditions. This improved HMPA modeling will assist in the programming and budgeting of future projects which will help maximize the life of pavement infrastructures.

Instead of receiving a report of conditions collected during the Partial DCV collection, the park will receive a formal letter from the Road Inventory Program requesting coordination for the additional Partial DCV collection, identifying the dates of the Partial DCV Collection and will reinforce the purpose and importance of the Partial DCV Collection.

Appendix D
Glossary of Terms and Abbreviations

Glossary of Terms and Abbreviations

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AC	Alligator Cracking
CRS	Condition Rating Sheets (Section 5)
Curb Recommendation	Curb remediation based on overall percentage of curb distress
Curb Reveal	Height of curb exposed from gutter flow line to top of curb
DCV	Data Collection Vehicle
Excellent	Excellent rating with an index value of 95 to 100
Fair	Fair rating with an index value from 61 to 84
FUNCT_CLASS	Functional Classification (see Route ID, Section 2)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
HPMA	Highway Pavement Management Application
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
LC	Longitudinal Cracking
MRR	Manually Rated Route
MRL	Manually Rated Line
MRP	Manually Rated Polygon
N/A	Not Applicable
NC	Not Collected
PATCH	Patching and Potholes
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating
PKG	Parking Area
Poor	Poor rating with an index value of 0 to 60
RCI	Roughness Condition Index
SC	Structural Cracking
SCR	Surface Condition Rating
TC	Transverse Cracking