



**national park service**

**The Road Inventory  
of  
Zion National Park  
ZION – 1590  
Cycle 4**

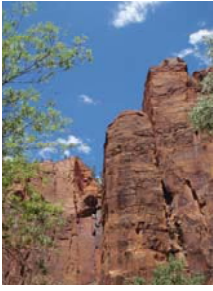


**Prepared By:  
Federal Highway Administration  
Road Inventory Program  
Cycle 4**



# Zion National Park in Utah





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# Zion National Park



## **Section 1** **Introduction**

## INTRODUCTION

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

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

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

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

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

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

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

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

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

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

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

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

The FHWA RIP Team

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# Zion National Park



## **Section 2**

### **Park Summary Information**

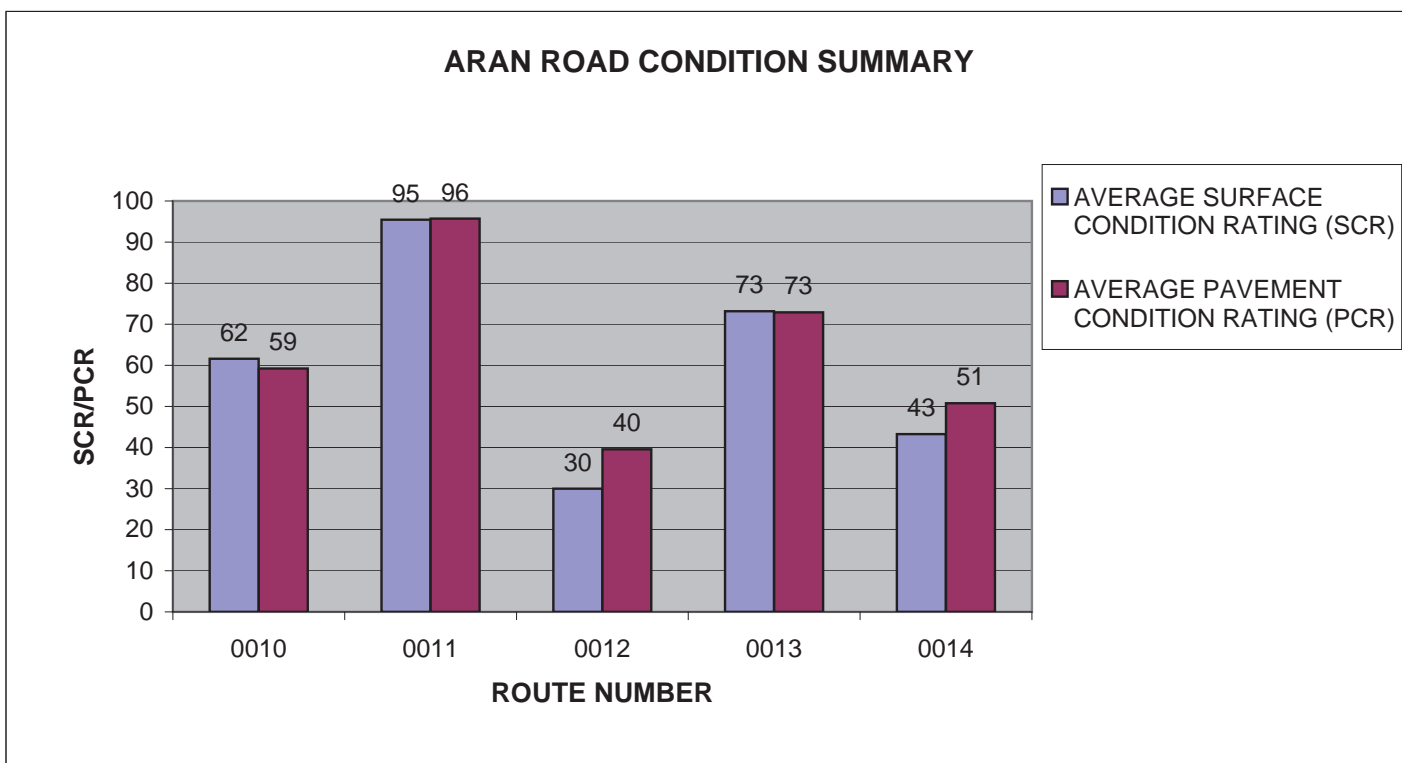
## ZION: PAVED ROUTE MILES AND PERCENTAGES BY FUNCTIONAL CLASS AND PCR

F.C.	Pavement Condition Rating (PCR)								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	15.39	37.45%	9.43	22.94%	3.49	8.49%	5.42	13.19%	<b>33.73</b>
2	1.15	2.80%	0.42	1.02%	0.06	0.15%	0.10	0.24%	<b>1.73</b>
3	1.73	4.21%	0.80	1.95%	0.24	0.58%	0.13	0.32%	<b>2.90</b>
4									
5	0.94	2.29%	0.72	1.75%	0.10	0.24%			<b>1.76</b>
6	0.24	0.58%	0.59	1.44%	0.08	0.19%	0.07	0.17%	<b>0.98</b>
7									
8									
<b>Totals</b>	<b>19.45</b>	<b>47.32%</b>	<b>11.96</b>	<b>29.10%</b>	<b>3.97</b>	<b>9.66%</b>	<b>5.72</b>	<b>13.92%</b>	<b>41.10</b>



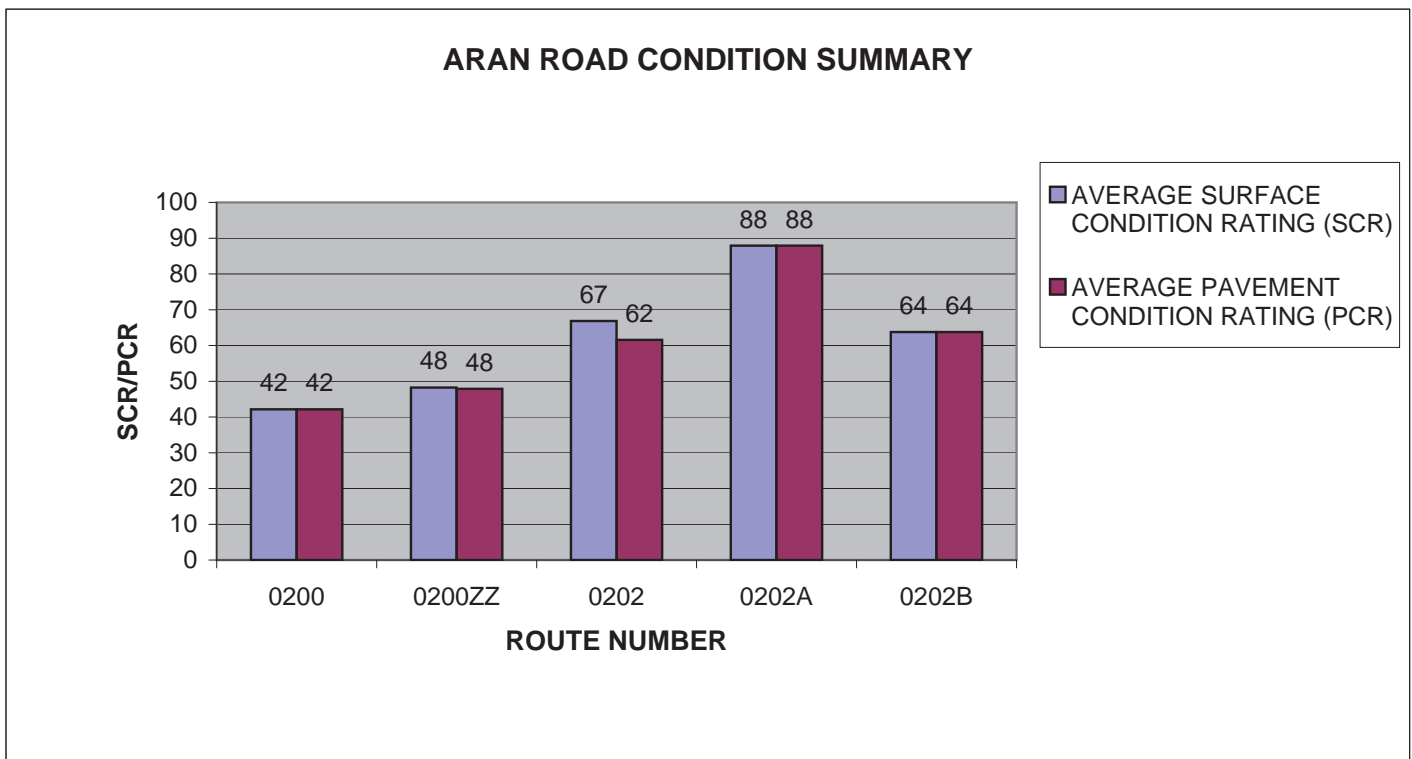
# ZION: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0010	ZION-MT CARMEL HIGHWAY	1	12.25	ASPHALT	62	59
0011	ZION SCENIC CANYON DRIVE	1	6.19	ASPHALT	95	96
0012	KOLOB TERRACE ROAD SOUTH	1	4.09	ASPHALT	30	40
0013	KOLOB CANYON ROAD	1	5.32	ASPHALT	73	73
0014	KOLOB TERRACE ROAD NORTH	1	5.88	ASPHALT	43	51



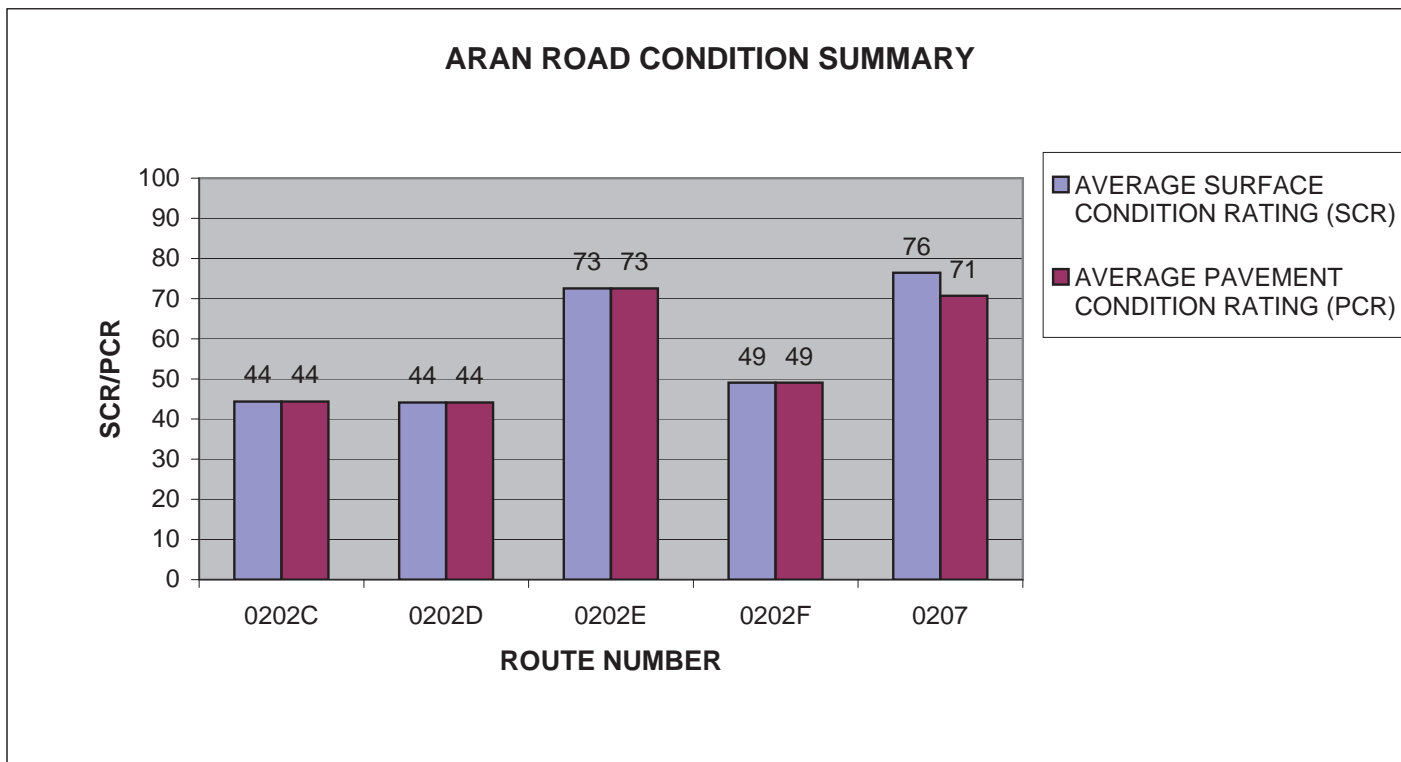
# ZION: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0200	SOUTH CAMPGROUND OUTER LOOP	2	0.86	ASPHALT	42	42
0200ZZ	SOUTH CAMPGROUND INSIDE ROADS	3	0.9	ASPHALT	48	48
0202	WATCHMAN CAMPGROUND ROAD	2	0.87	ASPHALT	67	62
0202A	WATCHMAN CAMPGROUND LOOP A	3	0.26	ASPHALT	88	88
0202B	WATCHMAN CAMPGROUND LOOP B	3	0.4	ASPHALT	64	64



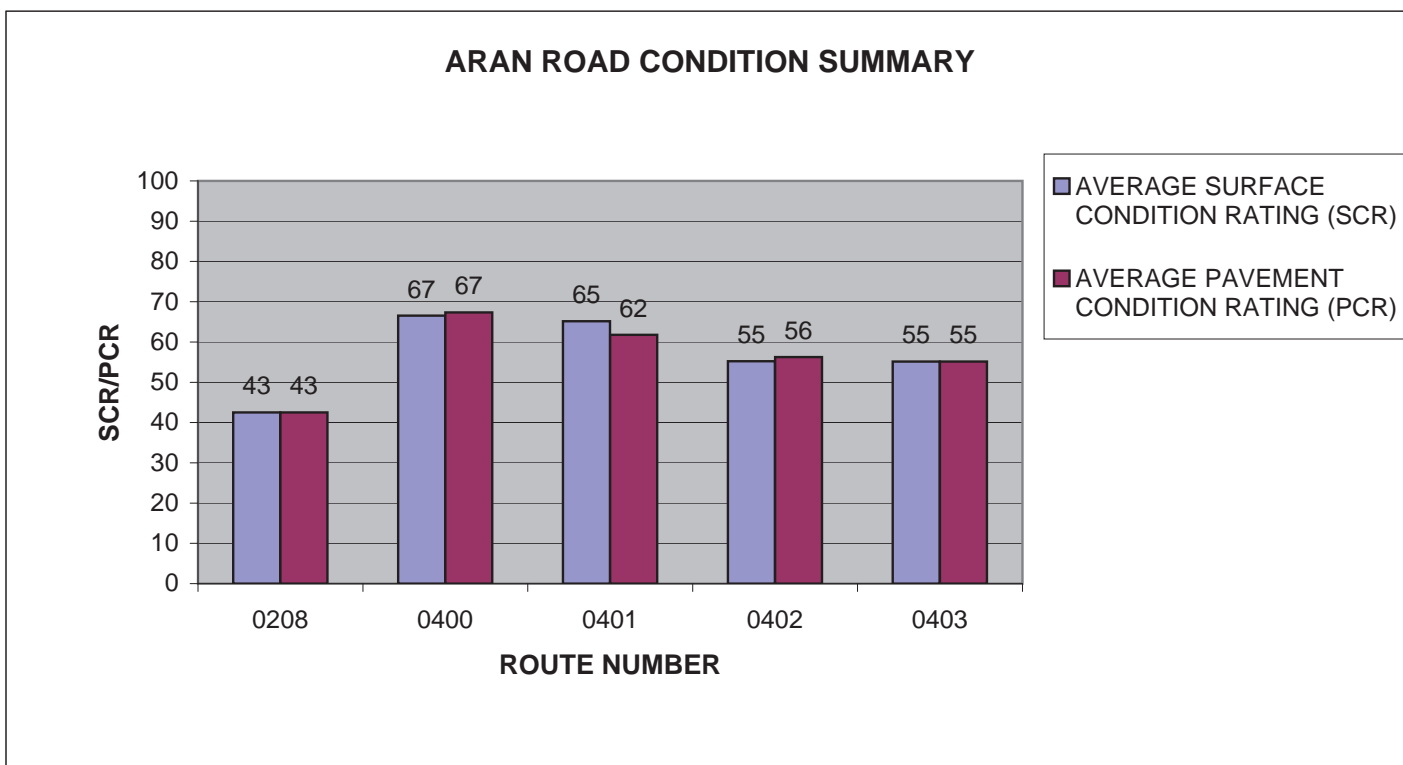
# ZION: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0202C	WATCHMAN CAMPGROUND LOOP C	3	0.29	ASPHALT	44	44
0202D	WATCHMAN CAMPGROUND LOOP D	3	0.28	ASPHALT	44	44
0202E	WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS	3	0.13	ASPHALT	73	73
0202F	WATCHMAN CAMPGROUND LOOP F	3	0.19	ASPHALT	49	49
0207	WATCHMAN TRAIL ROAD	3	0.37	ASPHALT	76	71



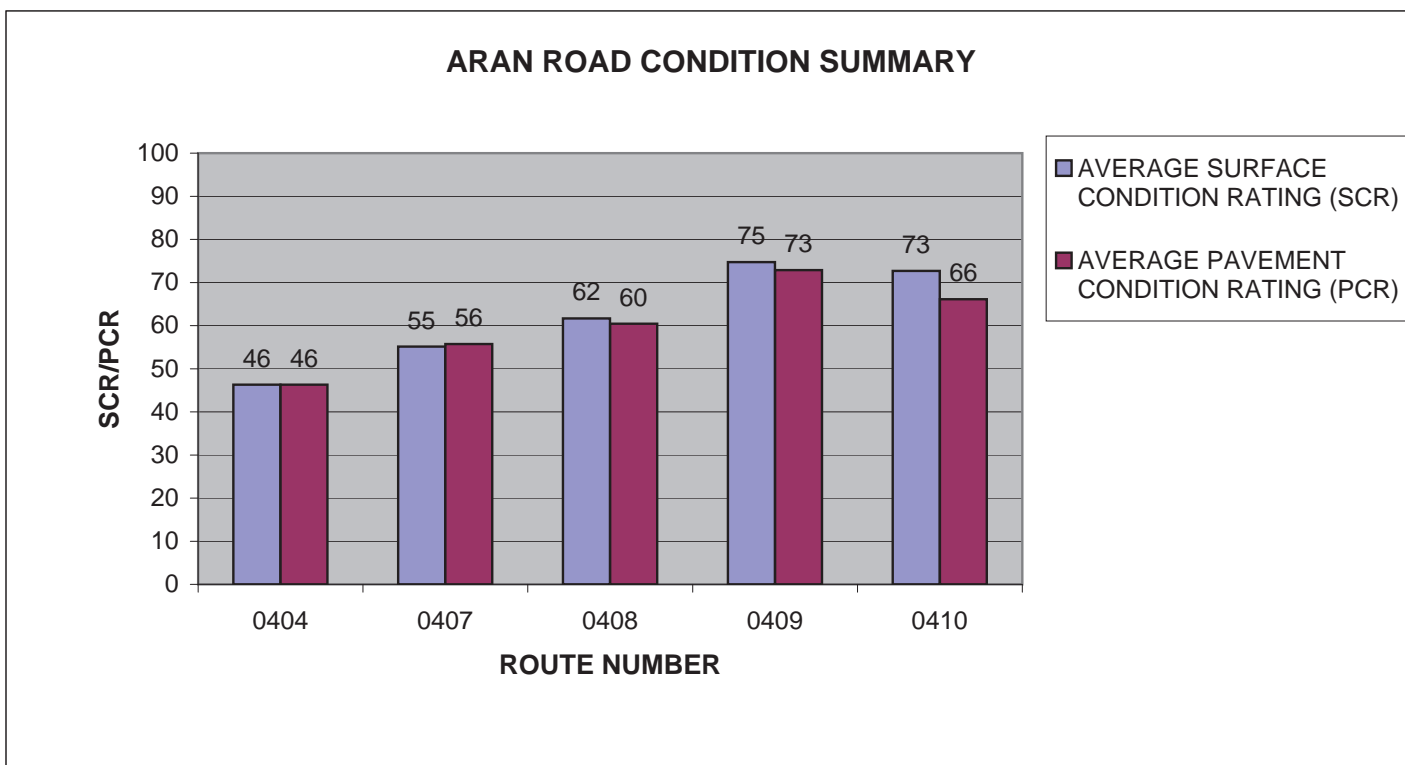
# ZION: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0208	EAST RIM TRAIL ACCESS	3	0.08	ASPHALT	43	43
0400	WATCHMAN HOUSING COMPLEX ROAD	5	0.18	ASPHALT	67	67
0401	WATCHMAN RESIDENCE ROAD	5	0.48	ASPHALT	65	62
0402	OAK CREEK ROAD	5	0.57	ASPHALT	55	56
0403	OAK CREEK HEADQUARTERS ROAD	5	0.08	ASPHALT	55	55



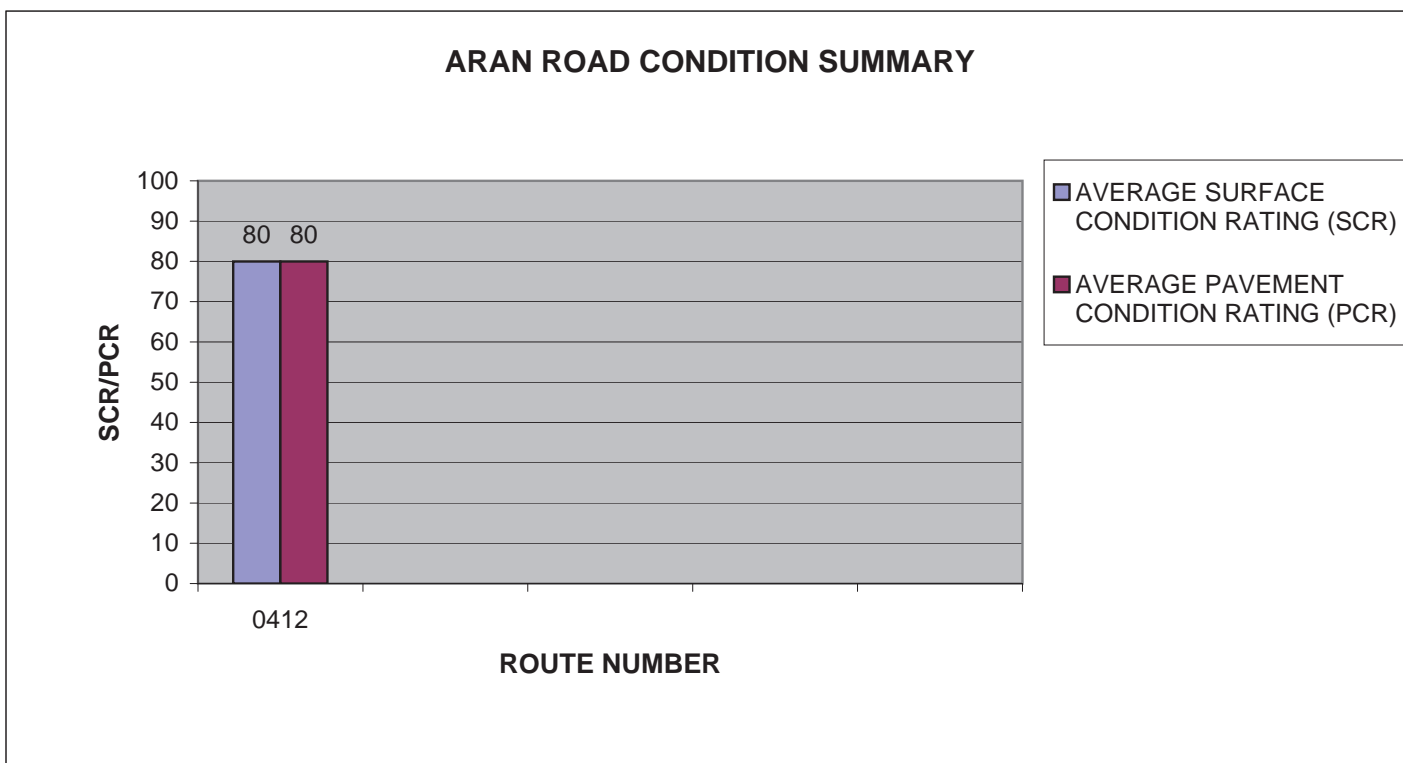
# ZION: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0404	VISITOR CENTER RESIDENTIAL ROAD	5	0.07	ASPHALT	46	46
0407	OAK CREEK RESIDENCE ROAD	5	0.23	ASPHALT	55	56
0408	OAK CREEK RESIDENCE SPUR ROAD	6	0.18	ASPHALT	62	60
0409	HORSE CORRAL ROAD / BIRCH CREEK ROAD	5	0.15	ASPHALT	75	73
0410	KOLOB SERVICE ROAD	6	0.45	ASPHALT	73	66



# ZION: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0412	CONCESSIONAIRE / DORM ACCESS ROAD	6	0.35	ASPHALT	80	80

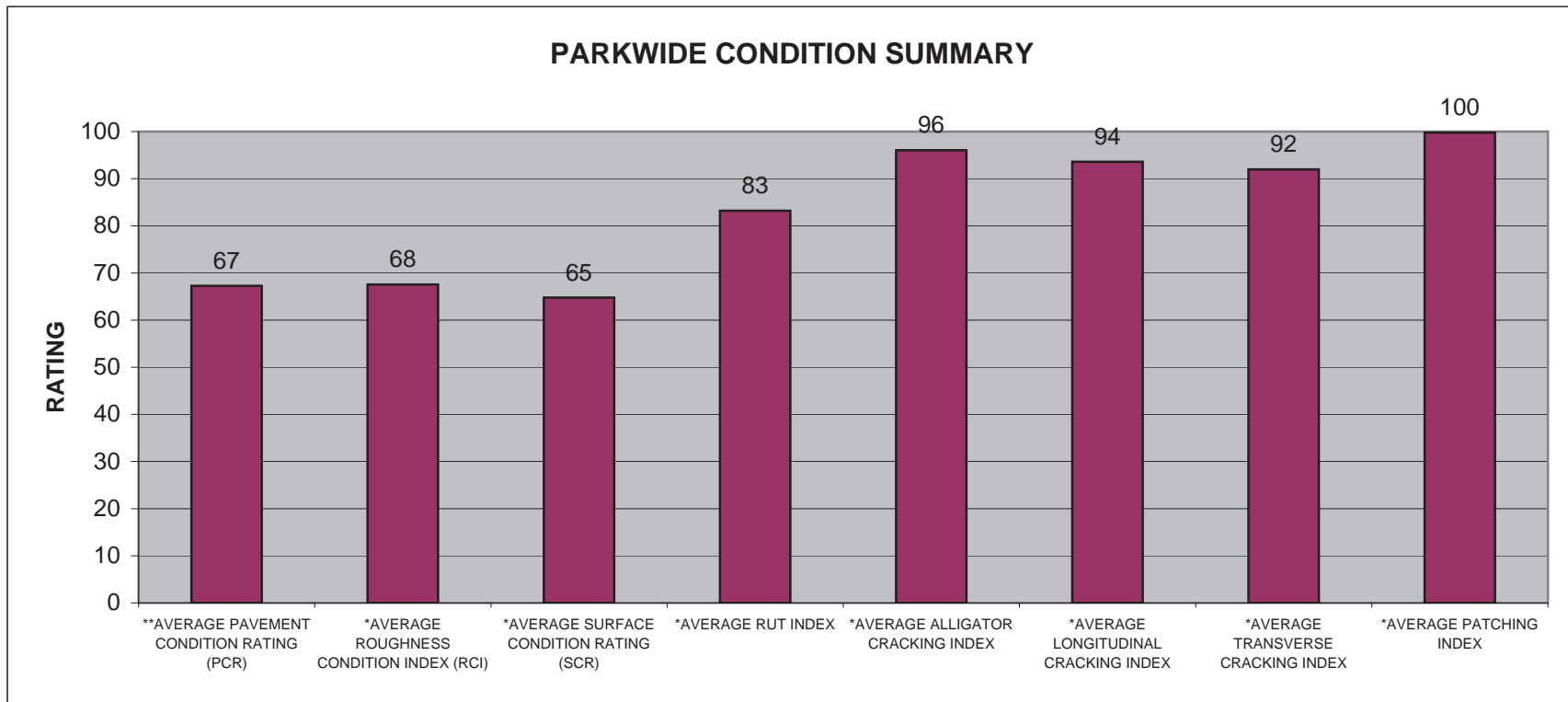


# ZION: PARKWIDE CONDITION SUMMARY

**AVERAGE PAVEMENT CONDITION RATING (PCR)	*AVERAGE ROUGHNESS CONDITION INDEX (RCI)	*AVERAGE SURFACE CONDITION RATING (SCR)	*AVERAGE RUT INDEX	*AVERAGE ALLIGATOR CRACKING INDEX	*AVERAGE LONGITUDINAL CRACKING INDEX	*AVERAGE TRANSVERSE CRACKING INDEX	*AVERAGE PATCHING INDEX
67	68	65	83	96	94	92	100

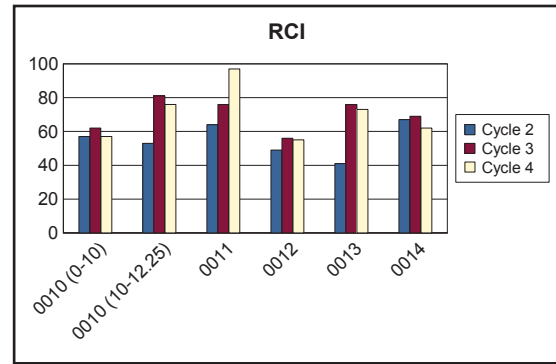
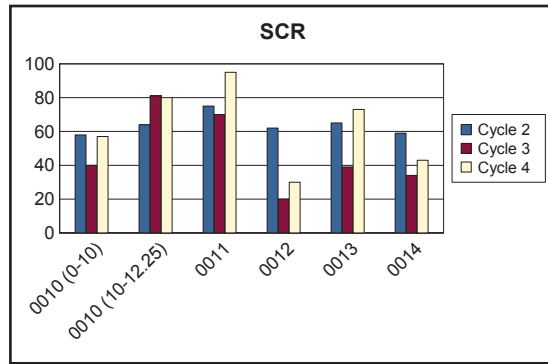
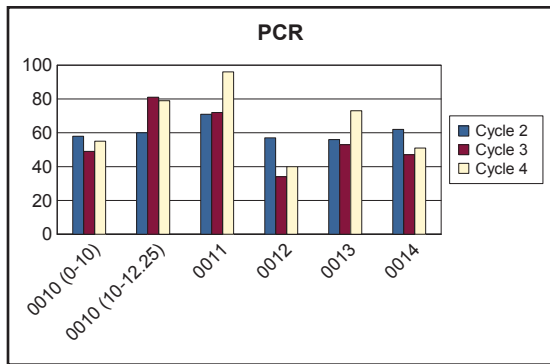
\*\* PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.

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



# ZION CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

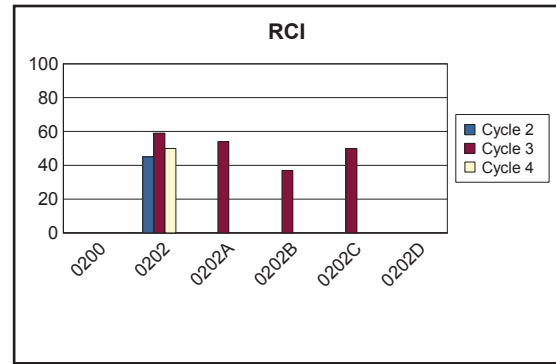
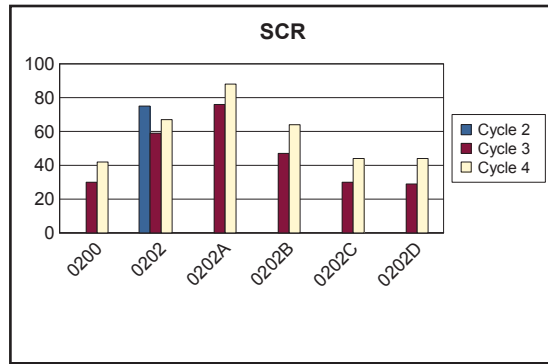
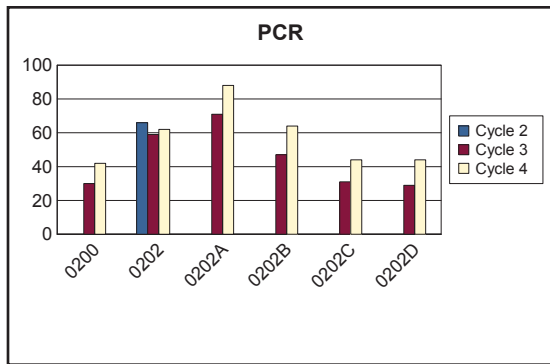
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)			PERCENT CHANGE	SURFACE CONDITION RATING (SCR)			PERCENT CHANGE	ROUGHNESS CONDITION INDEX (RCI)			COMMENT	
				CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		
0010	10.00	0.00	10.00	58	49	55	+12%	58	40	57	+42%	57	62	57	-8%	
0010	2.25	10.00	12.25	60	81	79	-2%	64	81	80	-1%	53	81	76	-6%	
0011	6.19	0.00	6.19	71	72	96	+33%	75	70	95	+36%	64	76	97	+28%	
0012	4.09	0.00	4.09	57	34	40	+18%	62	20	30	+50%	49	56	55	-2%	
0013	5.32	0.00	5.32	56	53	73	+38%	65	39	73	+87%	41	76	73	-4%	
0014	5.88	0.00	5.88	62	47	51	+9%	59	34	43	+26%	67	69	62	-10%	





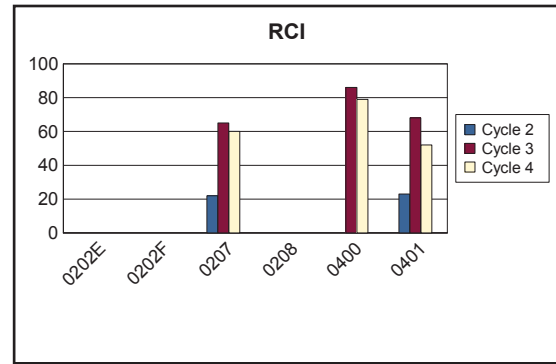
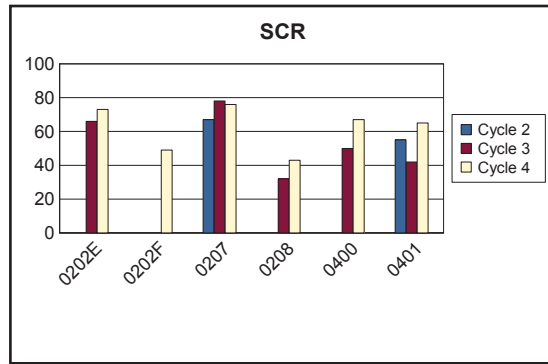
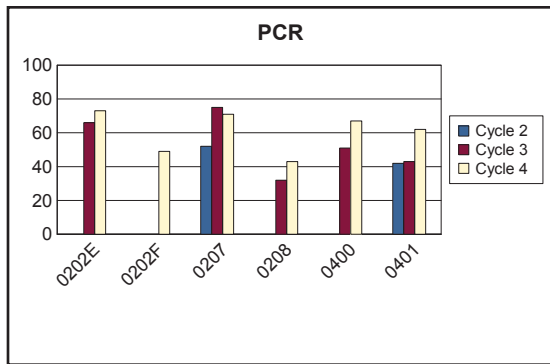
# ZION CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)			PERCENT CHANGE	SURFACE CONDITION RATING (SCR)			PERCENT CHANGE	ROUGHNESS CONDITION INDEX (RCI)			COMMENT	
				CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		
0200	0.86	0.00	0.86	N/A	30	42	+40%	N/A	30	42	+40%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or 4.
0202	0.87	0.00	0.87	66	59	62	+5%	75	59	67	+14%	45	59	50	-15%	
0202A	0.27	0.00	0.27	N/A	71	88	+24%	N/A	76	88	+16%	N/A	54	N/A	N/A	No RCI collected in Cycle 4.
0202B	0.46	0.00	0.46	N/A	47	64	+36%	N/A	47	64	+36%	N/A	37	N/A	N/A	No RCI collected in Cycle 4.
0202C	0.29	0.00	0.29	N/A	31	44	+42%	N/A	30	44	+47%	N/A	50	N/A	N/A	No RCI collected in Cycle 4.
0202D	0.28	0.00	0.28	N/A	29	44	+52%	N/A	29	44	+52%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or 4.



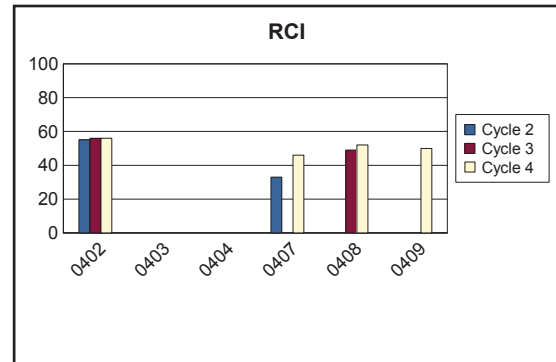
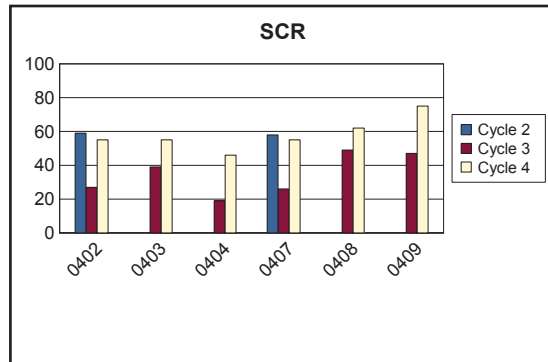
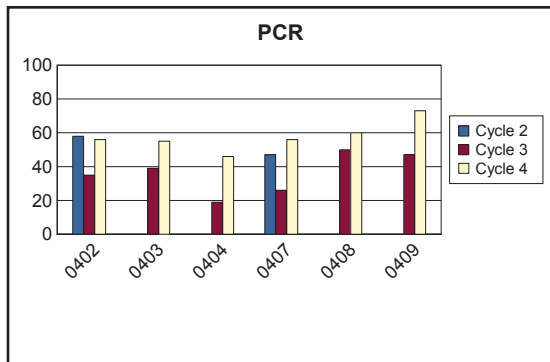
# ZION CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)			PERCENT CHANGE	SURFACE CONDITION RATING (SCR)			PERCENT CHANGE	ROUGHNESS CONDITION INDEX (RCI)			COMMENT	
				CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		
0202E	0.13	0.00	0.13	N/A	66	73	+11%	N/A	66	73	+11%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or 4.
0202F	0.19	0.00	0.19	N/A	N/A	49	N/A	N/A	49	N/A	N/A	N/A	N/A	N/A	N/A	Route 0202F was not collected in Cycle 3. No RCI collected in Cycle 4.
0207	0.37	0.00	0.37	52	75	71	-5%	67	78	76	-3%	22	65	60	-8%	
0208	0.09	0.00	0.09	N/A	32	43	+34%	N/A	32	43	+34%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or 4.
0400	0.18	0.00	0.18	N/A	51	67	+31%	N/A	50	67	+34%	N/A	86	79	-8%	
0401	0.48	0.00	0.48	42	43	62	+44%	55	42	65	+55%	23	68	52	-24%	



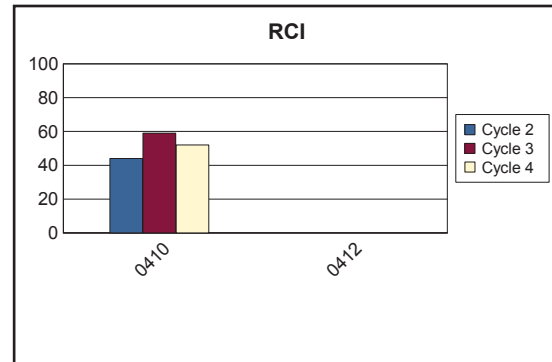
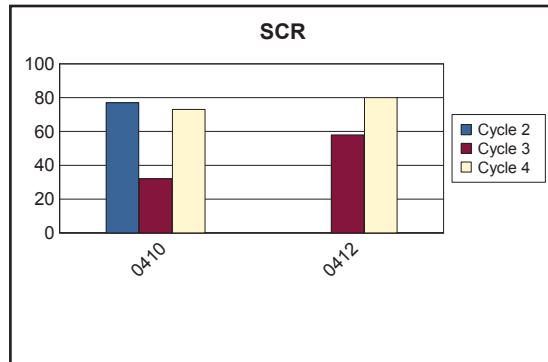
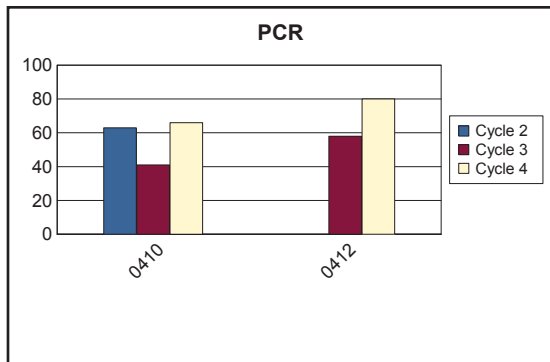
# ZION CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)			PERCENT CHANGE	SURFACE CONDITION RATING (SCR)			PERCENT CHANGE	ROUGHNESS CONDITION INDEX (RCI)			COMMENT	
				CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		
0402	0.57	0.00	0.57	58	35	56	+60%	59	27	55	+104%	55	56	56	0%	
0403	0.08	0.00	0.08	N/A	39	55	+41%	N/A	39	55	+41%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or 4.
0404	0.07	0.00	0.07	N/A	19	46	+142%	N/A	19	46	+142%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or 4.
0407	0.23	0.00	0.23	47	26	56	+115%	58	26	55	+112%	33	N/A	46	N/A	No RCI collected in Cycle 3.
0408	0.18	0.00	0.18	N/A	50	60	+20%	N/A	49	62	+27%	N/A	49	52	+6%	
0409	0.15	0.00	0.15	N/A	47	73	+55%	N/A	47	75	+60%	N/A	N/A	50	N/A	No RCI collected in Cycle 3.



## ZION CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)			PERCENT CHANGE	SURFACE CONDITION RATING (SCR)			PERCENT CHANGE	ROUGHNESS CONDITION INDEX (RCI)			COMMENT	
				CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		CYCLE 2	CYCLE 3	CYCLE 4		
0410	0.45	0.00	0.45	63	41	66	+61%	77	32	73	+128%	44	59	52	-12%	
0412	0.35	0.00	0.35	N/A	58	80	+38%	N/A	58	80	+38%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or 4.

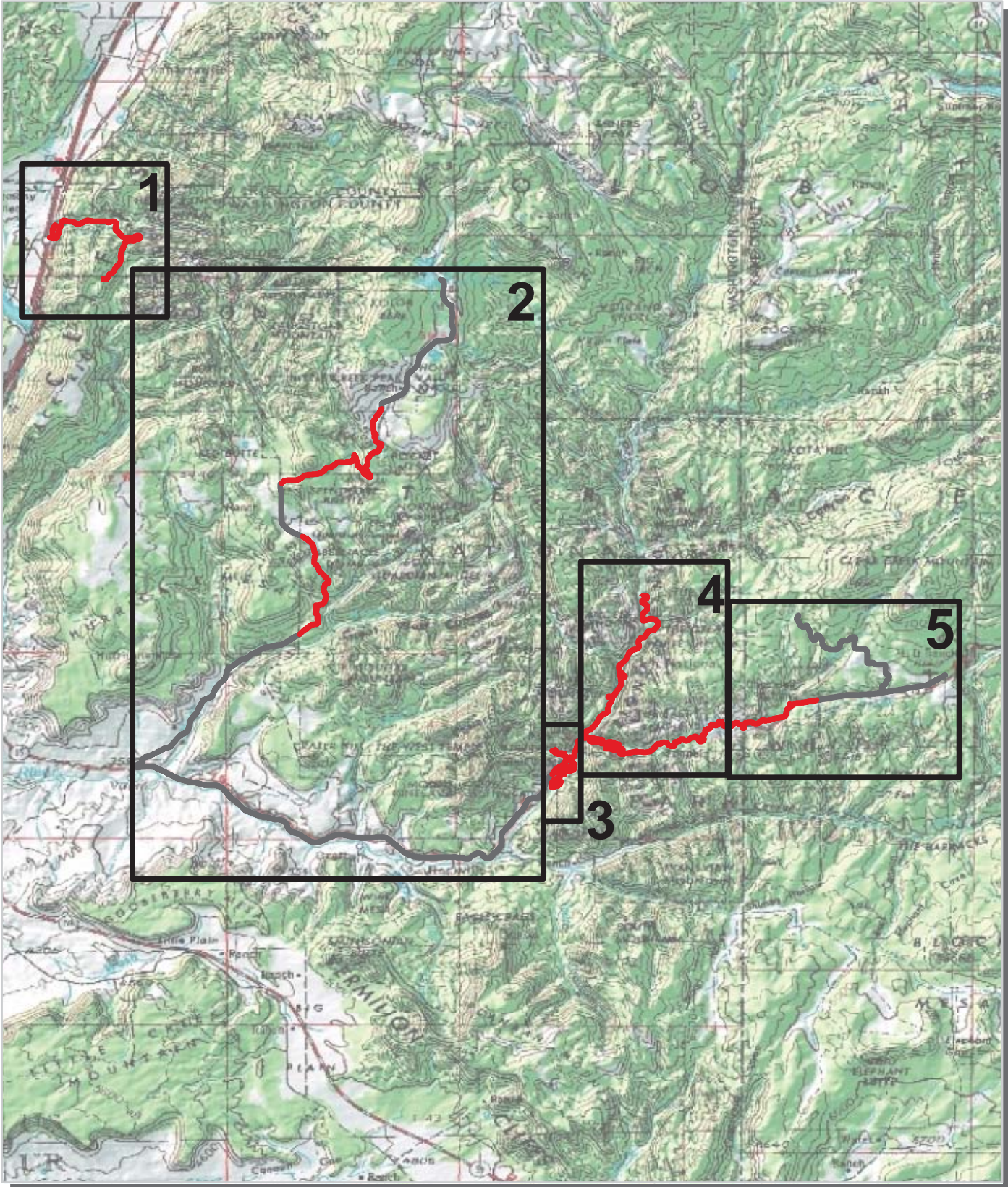


# Zion National Park



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

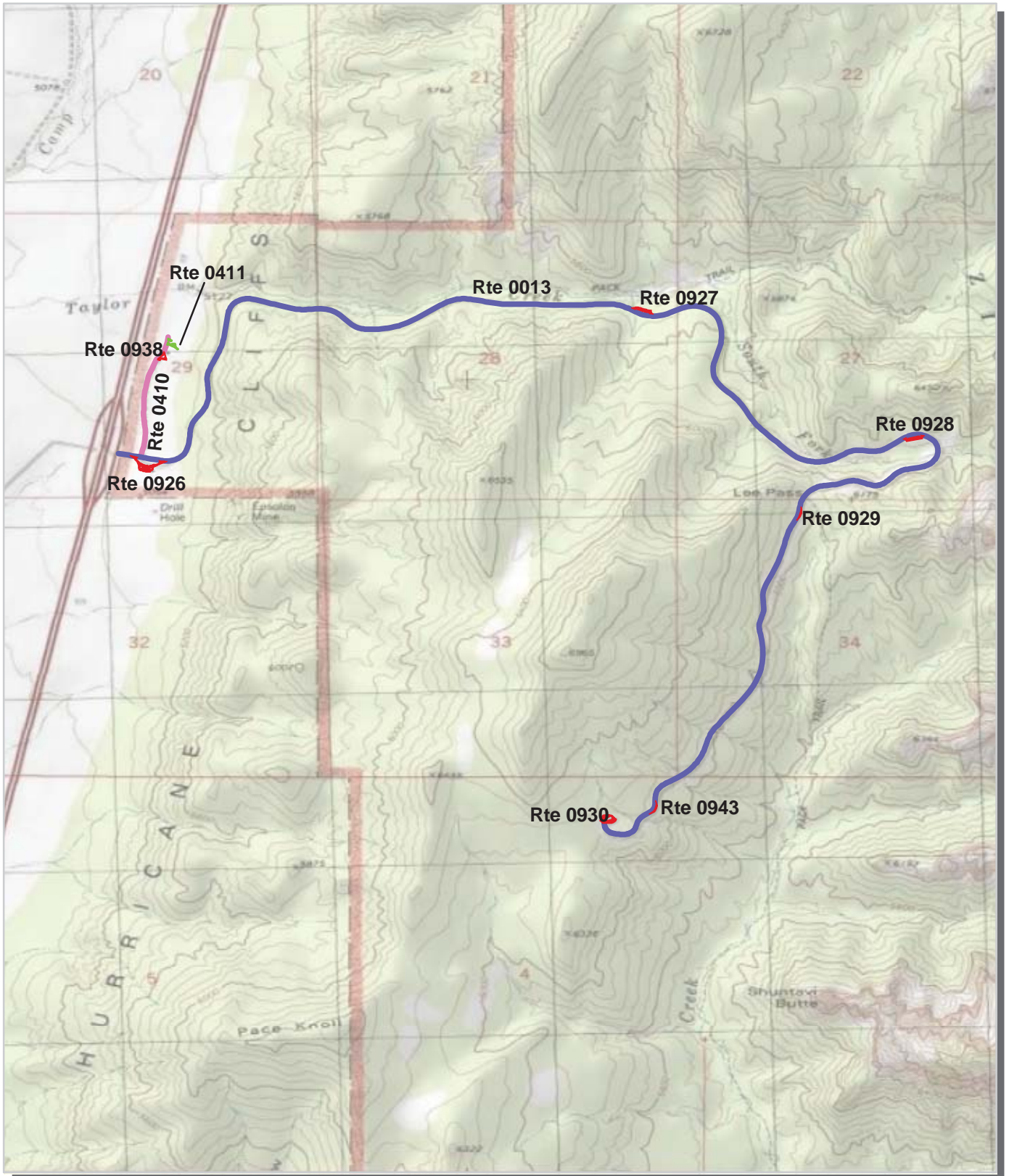
# Zion National Park Route Location Map Key Map



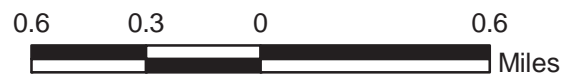
— Park Owned Routes



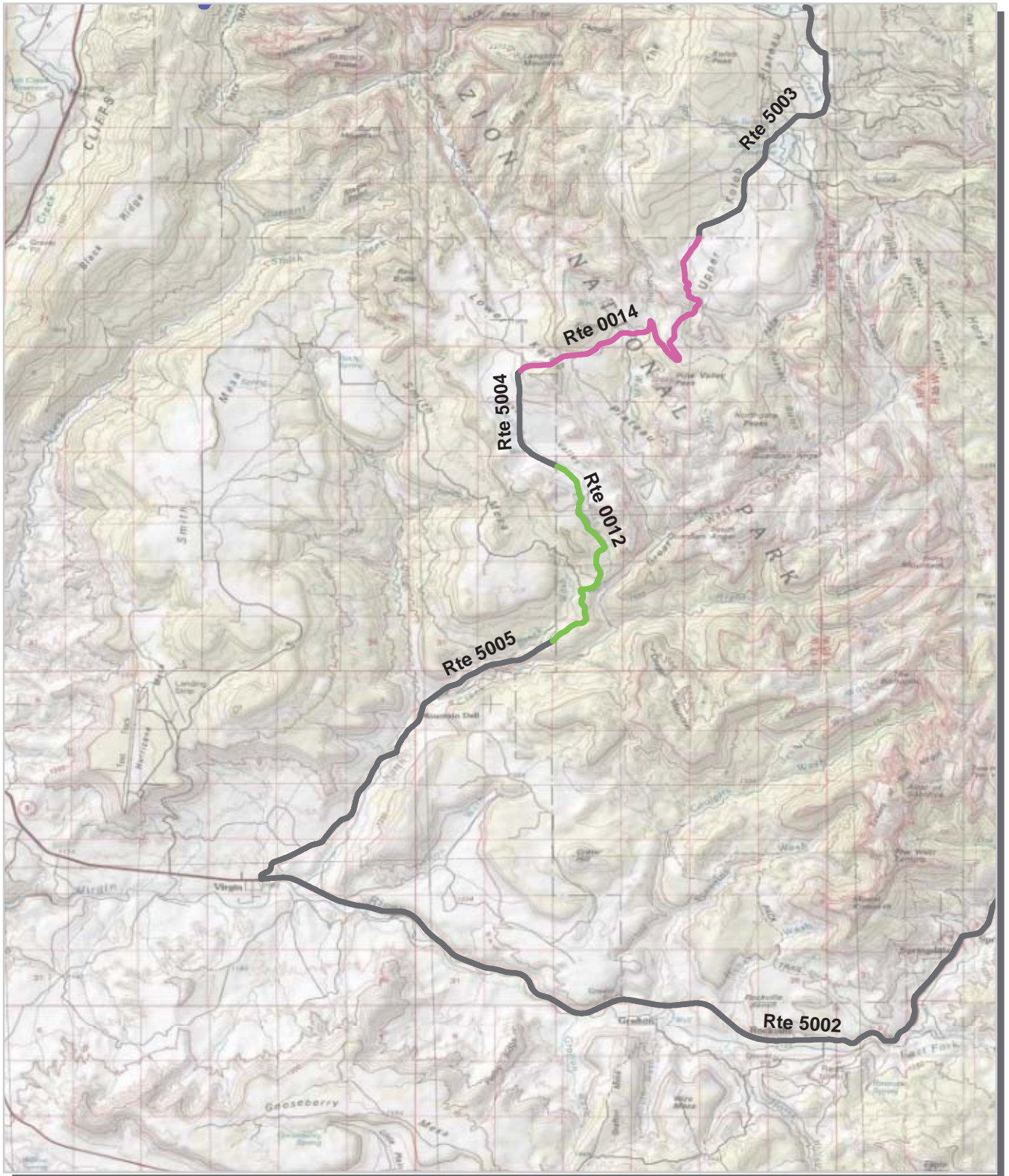
# Zion National Park Route Location Map Area 1



Unique colors used to differentiate routes



# Zion National Park Route Location Map Area 2

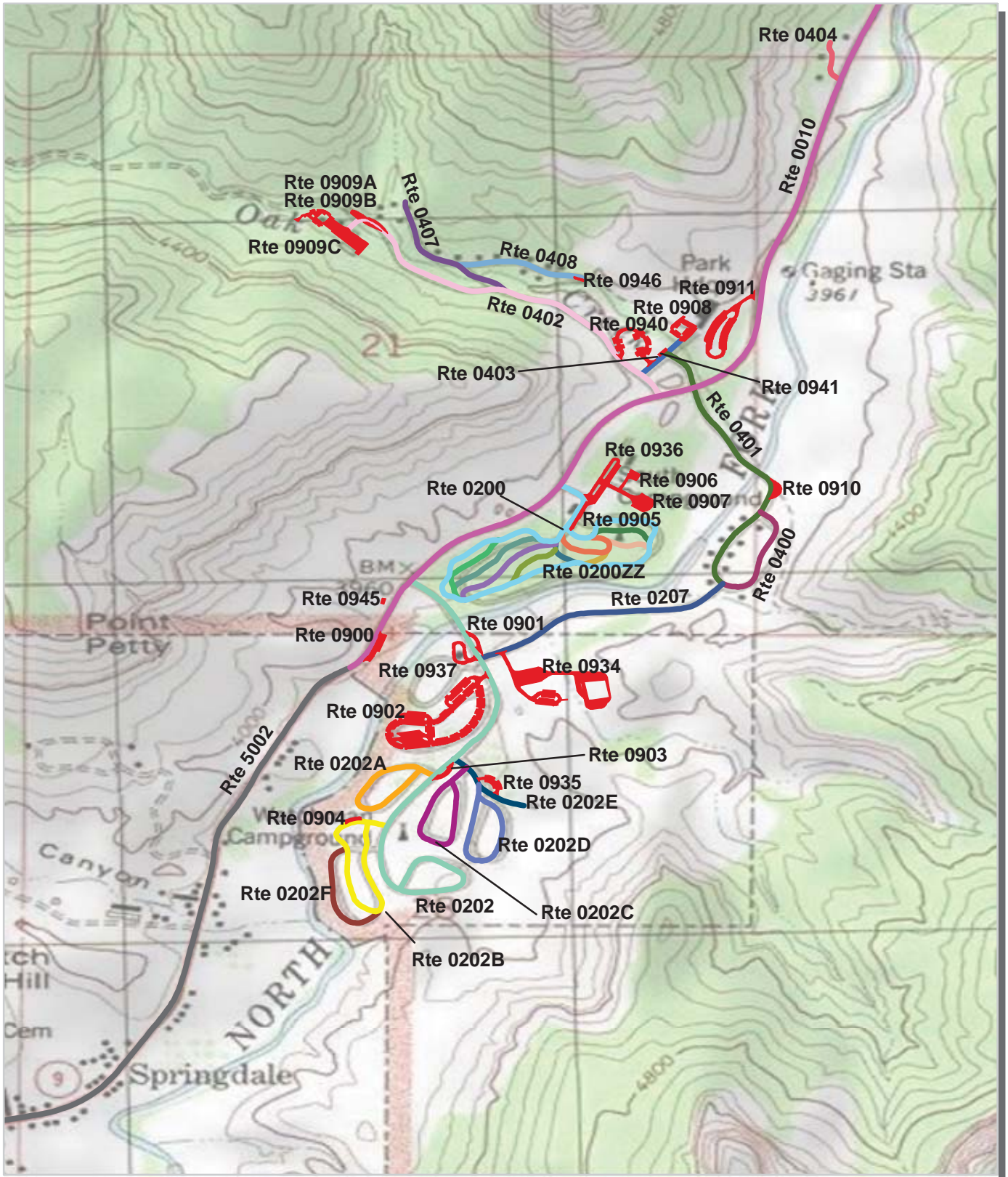


Unique colors used to differentiate routes

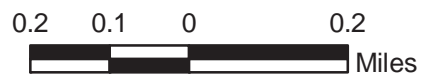




# Zion National Park Route Location Map Area 3



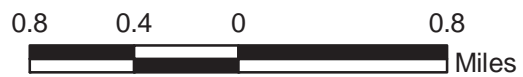
Unique colors used to differentiate routes



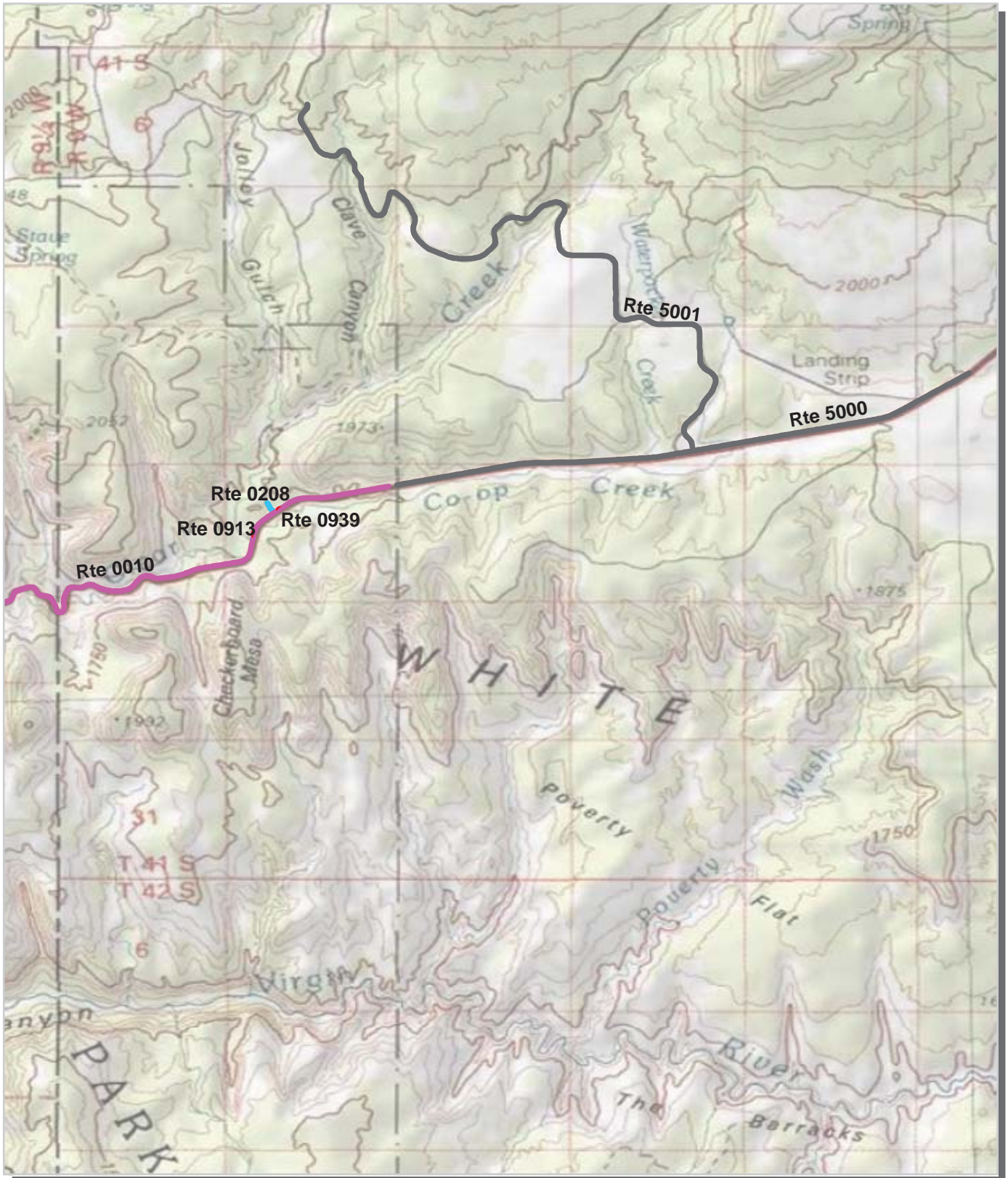
# Zion National Park Route Location Map Area 4



Unique colors used to differentiate routes



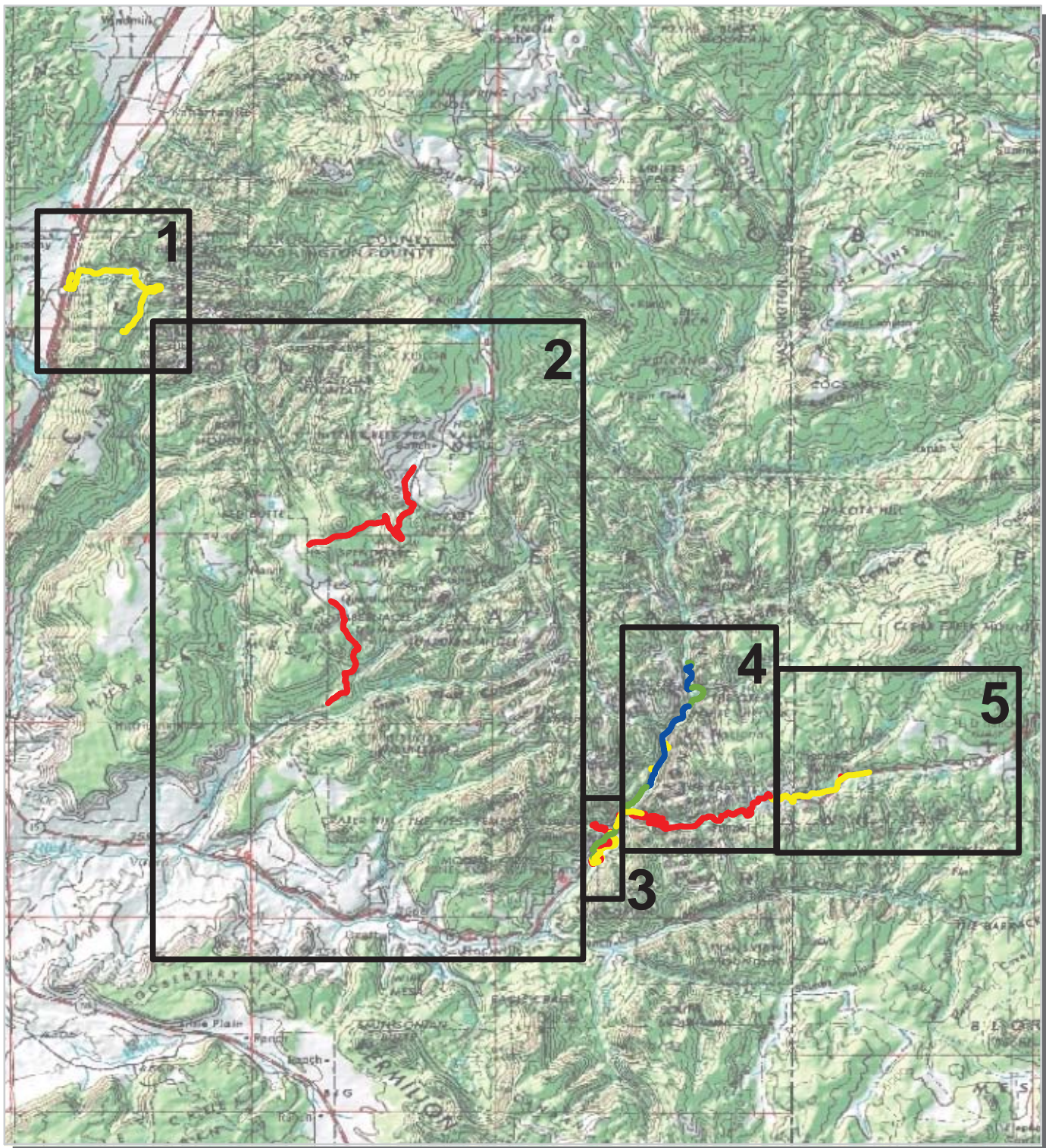
# Zion National Park Route Location Map Area 5



Unique colors used to differentiate routes



# Zion National Park Route Condition Map PCR - Mile by Mile Key Map

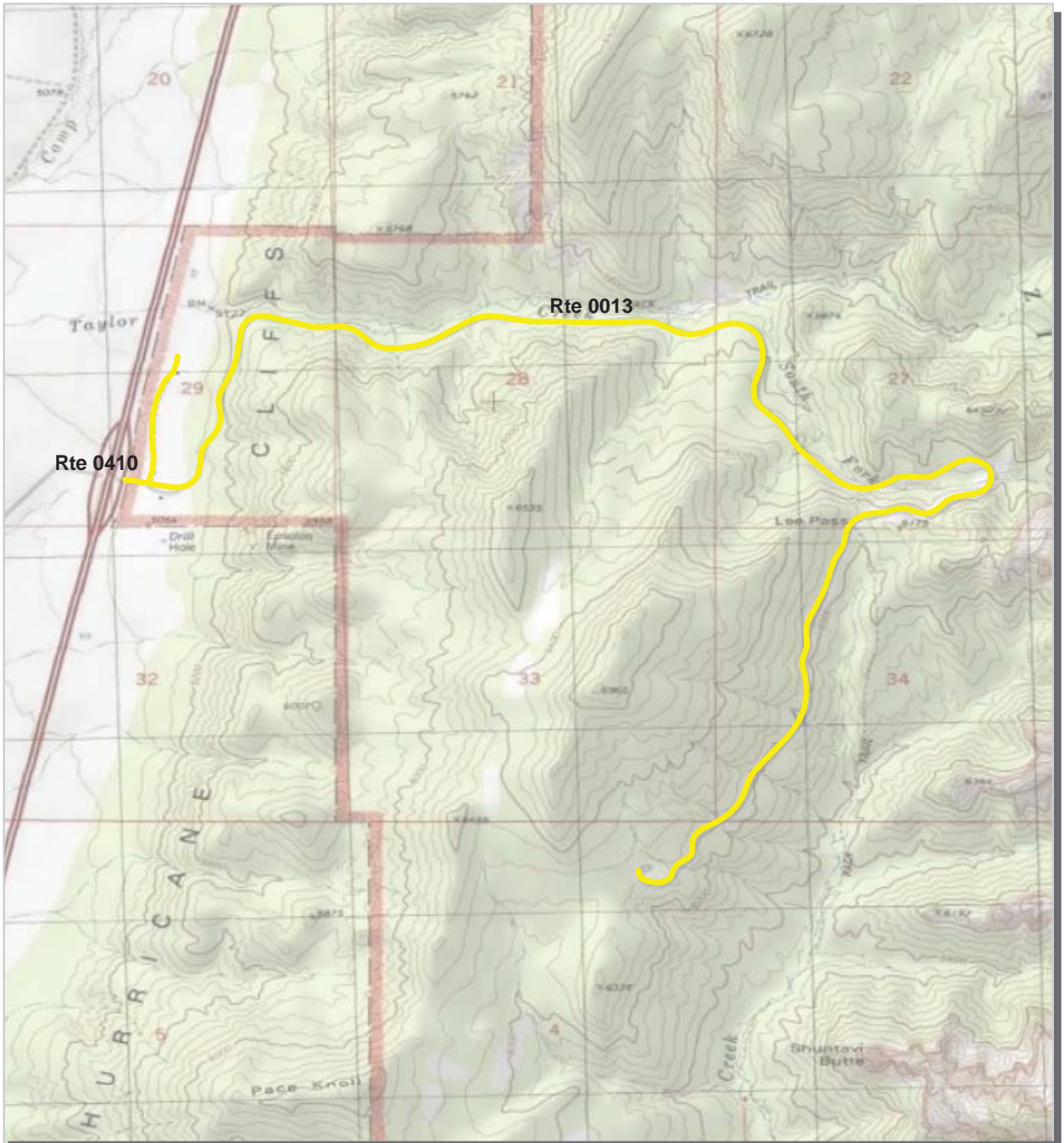


PCR	Poor	Fair	Good	Excellent	No Data
	( $\leq 60$ )	(61 - 84)	(85 - 94)	(95 - 100)	

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



# Zion National Park Route Condition Map PCR - Mile by Mile Area 1

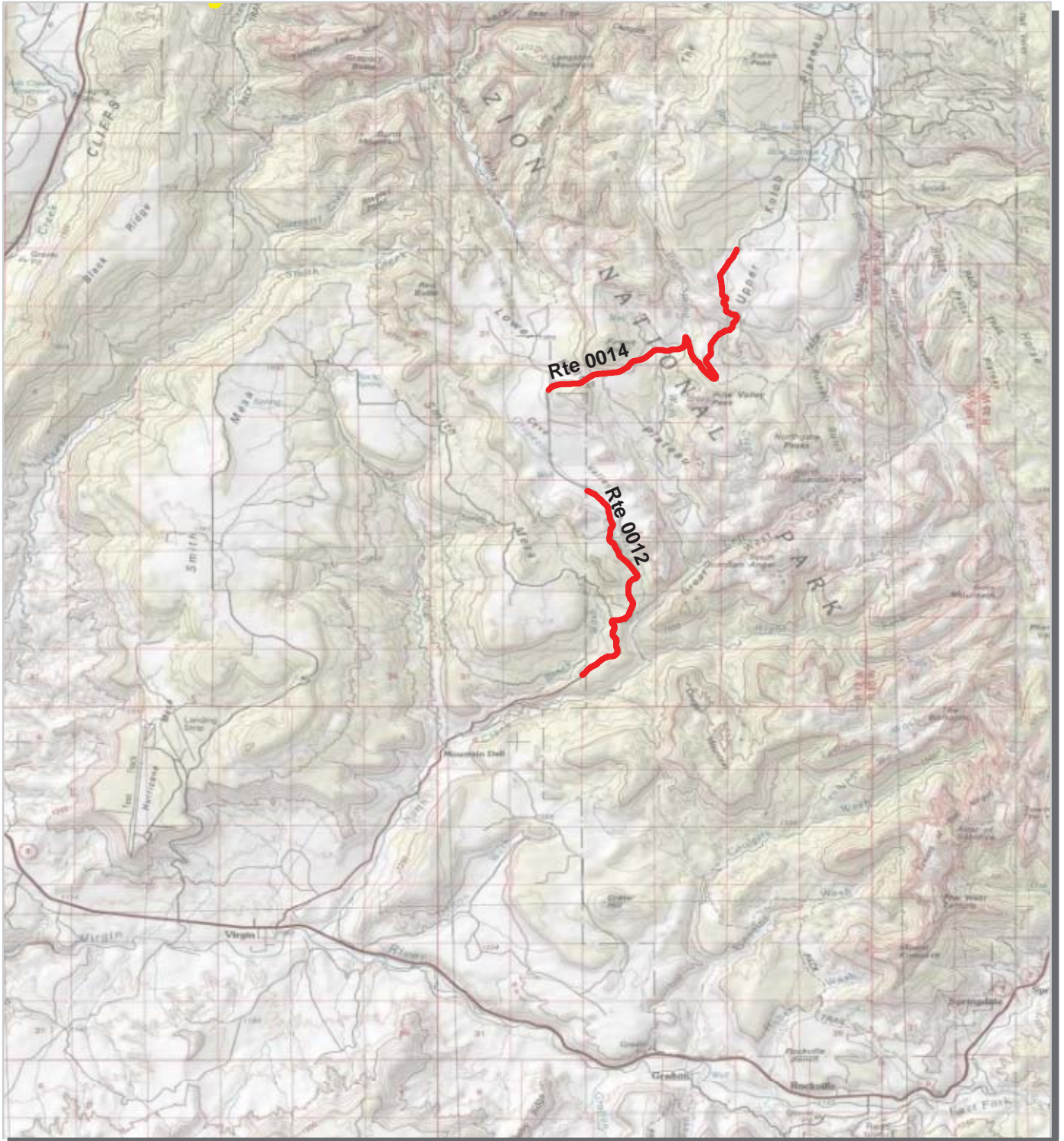


PCR	Poor	<span style="display: inline-block; width: 15px; height: 15px; background-color: red; border: 1px solid black;"></span>	Fair	<span style="display: inline-block; width: 15px; height: 15px; background-color: yellow; border: 1px solid black;"></span>	Good	<span style="display: inline-block; width: 15px; height: 15px; background-color: green; border: 1px solid black;"></span>	Excellent	<span style="display: inline-block; width: 15px; height: 15px; background-color: blue; border: 1px solid black;"></span>	No Data	<span style="display: inline-block; width: 15px; height: 15px; background-color: black; border: 1px solid black;"></span>
	(<=60)		(61 - 84)	(85 - 94)	(95 - 100)					

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



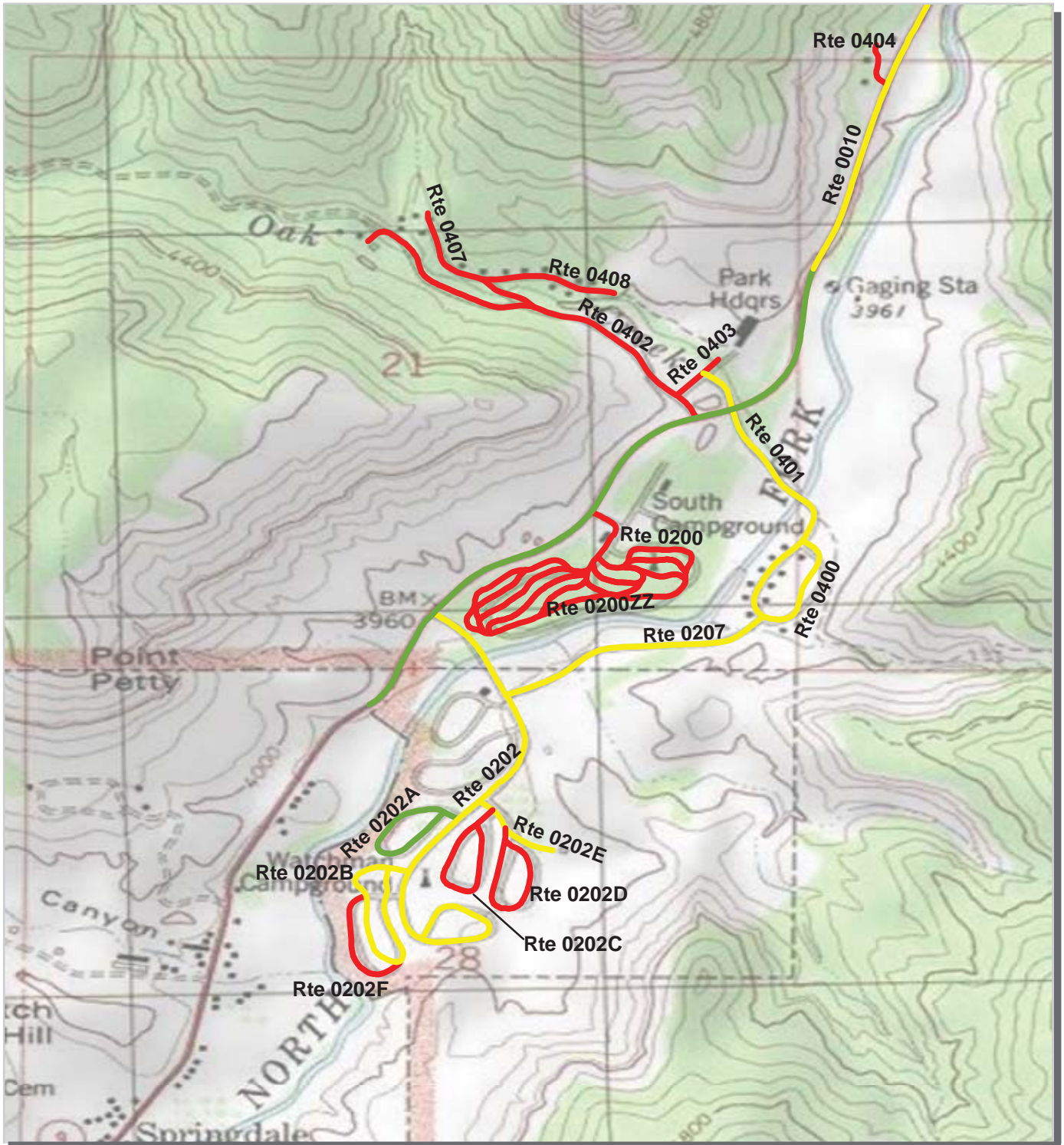
# Zion National Park Route Condition Map PCR - Mile by Mile Area 2



PCR	Poor	<span style="display: inline-block; width: 20px; height: 10px; background-color: red; border: 1px solid black;"></span>	Fair	<span style="display: inline-block; width: 20px; height: 10px; background-color: yellow; border: 1px solid black;"></span>	Good	<span style="display: inline-block; width: 20px; height: 10px; background-color: green; border: 1px solid black;"></span>	Excellent	<span style="display: inline-block; width: 20px; height: 10px; background-color: blue; border: 1px solid black;"></span>	No Data	<span style="display: inline-block; width: 20px; height: 10px; background-color: black; border: 1px solid black;"></span>
	(<=60)		(61 - 84)	(85 - 94)	(95 - 100)					

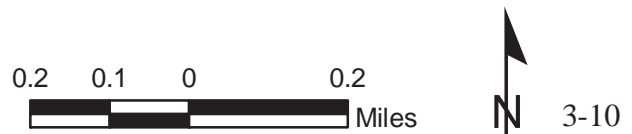
\* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

# Zion National Park Route Condition Map PCR - Mile by Mile Area 3

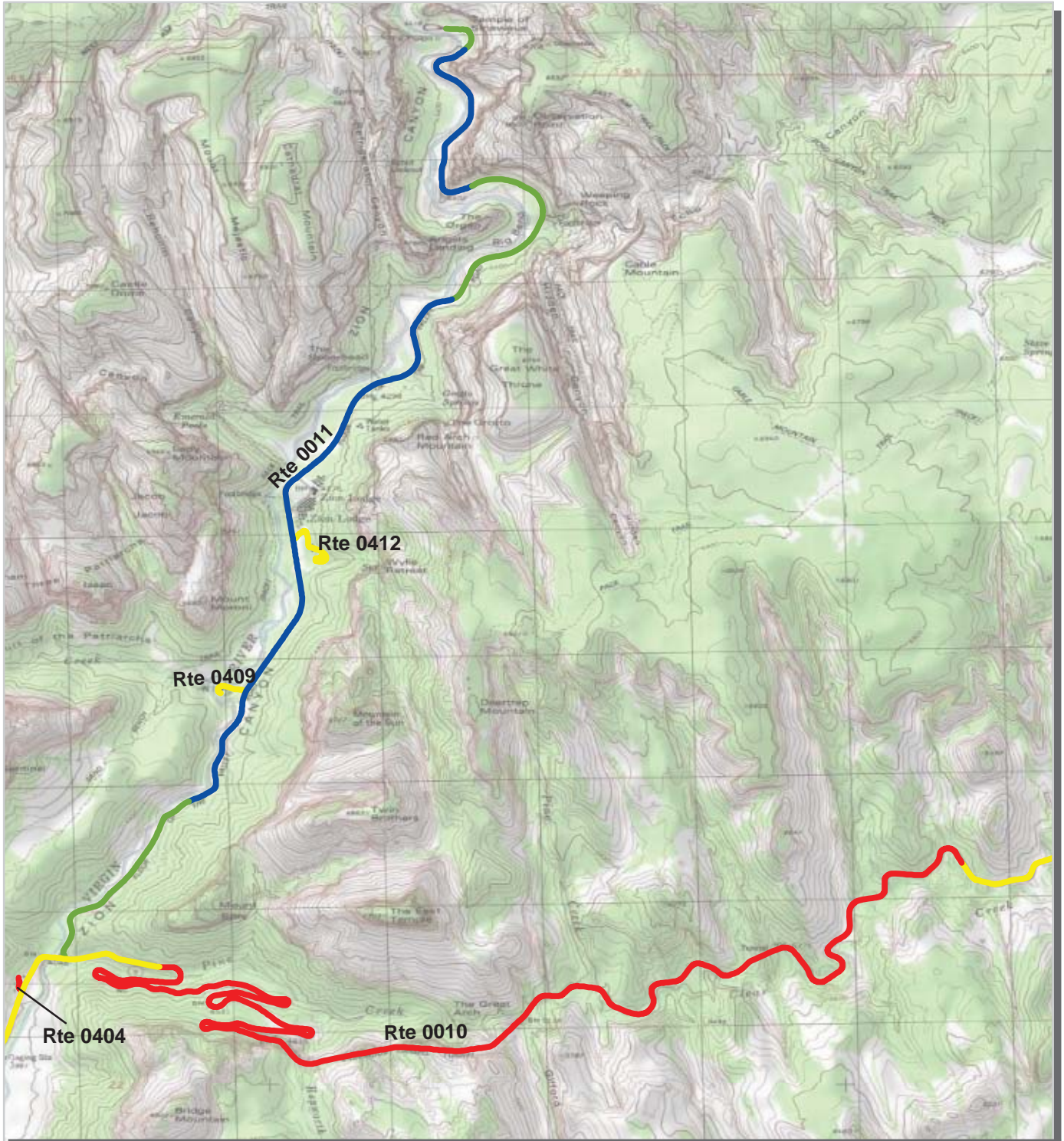


PCR	Poor	Fair	Good	Excellent	No Data
	( $\leq 60$ )	(61 - 84)	(85 - 94)	(95 - 100)	

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



# Zion National Park Route Condition Map PCR - Mile by Mile Area 4



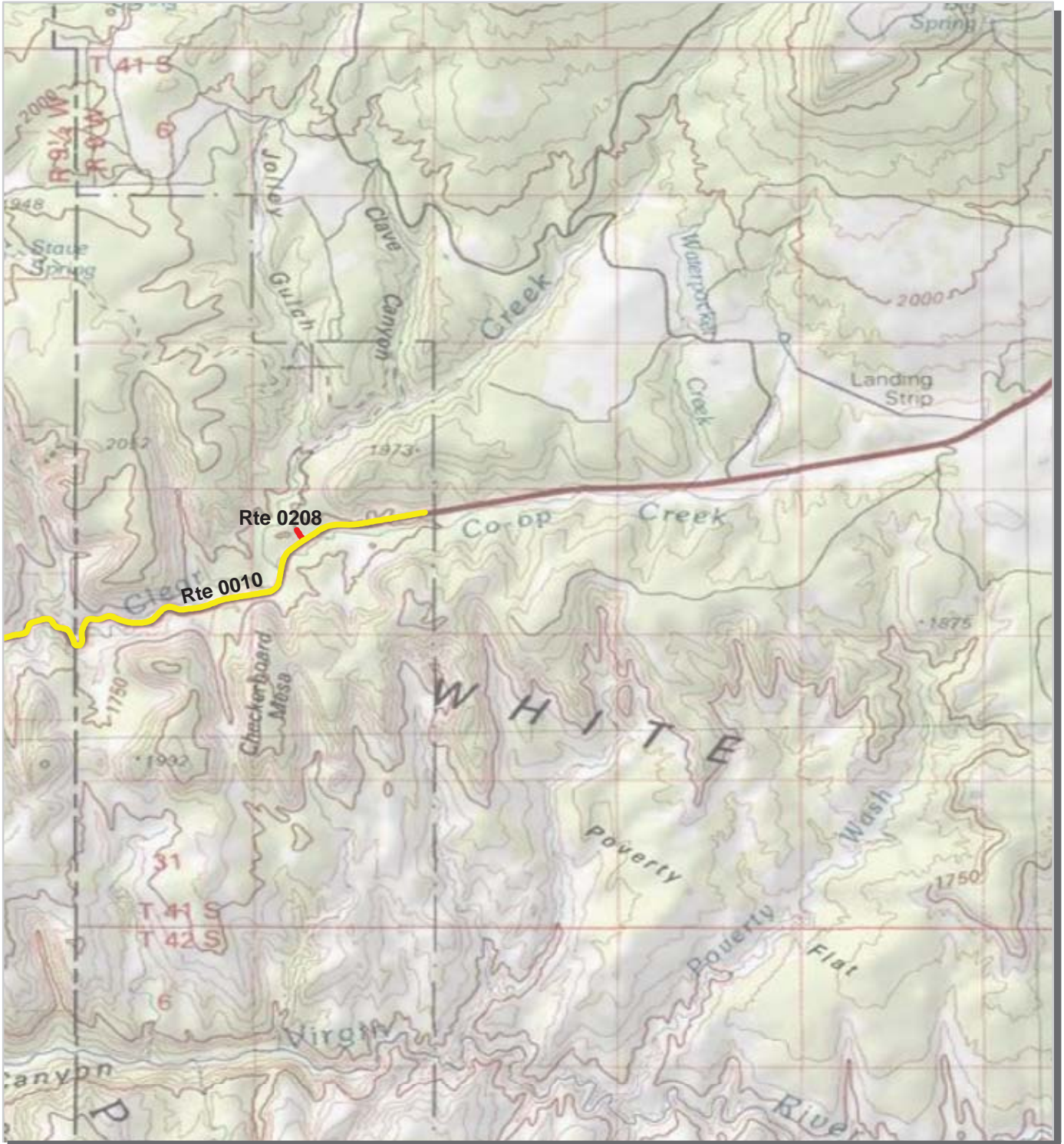
PCR	Poor	<span style="color: red;">■</span>	Fair	<span style="color: yellow;">■</span>	Good	<span style="color: green;">■</span>	Excellent	<span style="color: blue;">■</span>	No Data	<span style="color: black;">■</span>
	(<=60)		(61 - 84)	(85 - 94)	(95 - 100)					

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





# Zion National Park Route Condition Map PCR - Mile by Mile Area 5



PCR	Poor	<span style="display: inline-block; width: 20px; height: 10px; background-color: red; border: 1px solid black;"></span>	Fair	<span style="display: inline-block; width: 20px; height: 10px; background-color: yellow; border: 1px solid black;"></span>	Good	<span style="display: inline-block; width: 20px; height: 10px; background-color: green; border: 1px solid black;"></span>	Excellent	<span style="display: inline-block; width: 20px; height: 10px; background-color: blue; border: 1px solid black;"></span>	No Data	<span style="display: inline-block; width: 20px; height: 10px; background-color: black; border: 1px solid black;"></span>
	(<=60)		(61 - 84)	(85 - 94)	(95 - 100)					

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



# Zion National Park



## **Section 4** **Park Route Inventory**

# NPS/RIP Route ID Report

Road Inventory Program 08/24/2010

(Numerical By Route #)

Page 1 of 10

Shading Color Key:

Red text denotes approx. mileage

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

■ = Concession Route Flag ON

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

## ZION

### ZION NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description		Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
				From	To									
0010	65424		ZION-MT CARMEL HIGHWAY	FROM BEGINNING OF ROUTE 5002 (SOUTH HIGHWAY 9) AT SOUTH PARK BOUNDARY	TO BEGINNING OF ROUTE 5000 (EAST HIGHWAY 9) AT EAST PARK BOUNDARY	N/A	12.250	0.000	12.250	1		0	AS	3,4,5
0011	65486		ZION SCENIC CANYON DRIVE	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.60	TO ROUTE 0923 (TEMPLE OF SINAWAVA PARKING)	N/A	6.190	0.000	6.190	1		0	AS	4
0012	65631		KOLOB TERRACE ROAD SOUTH	FROM END OF ROUTE 5005 (KOLOB TERRACE ROAD SOUTH (NON NPS)) AT WEST-SOUTH PARK BOUNDARY	TO BEGINNING OF ROUTE 5004 (KOLOB TERRACE ROAD NORTH (NON NPS)) AT WEST-NORTH PARK BOUNDARY	N/A	4.090	0.000	4.090	1		0	AS	2
0013	65658		KOLOB CANYON ROAD	FROM I-15 ON AND OFF RAMP ON THE EAST SIDE	TO ROUTE 0930 (KOLOB CANYON OVERLOOK PARKING)	N/A	5.320	0.000	5.320	1		0	AS	1
0014	65633		KOLOB TERRACE ROAD NORTH	FROM END OF ROUTE 5004 (KOLOB TERRACE ROAD NORTH (NON NPS)) AT WEST PARK BOUNDARY	TO BEGINNING OF ROUTE 5003 (UPPER KOLOB PLATEAU) AT NORTH PARK BOUNDARY	N/A	5.880	0.000	5.880	1		0	AS	2
0200	65428		SOUTH CAMPGROUND OUTER LOOP	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.46 ON RIGHT	TO END OF THE LOOP	N/A	0.860	0.000	0.860	2		0	AS	3
0200ZZ	104928		SOUTH CAMPGROUND INSIDE ROADS	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)	THROUGH CAMPGROUND	N/A	0.900	0.000	0.900	3		0	AS	3
0202	65429		WATCHMAN CAMPGROUND ROAD	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.19 ON RIGHT	TO END OF LOOP	N/A	0.870	0.000	0.870	2		0	AS	3
0202A	104978		WATCHMAN CAMPGROUND LOOP A	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.41 ON RIGHT	TO END OF LOOP	N/A	0.260	0.000	0.260	3		0	AS	3
0202B	104983		WATCHMAN CAMPGROUND LOOP B	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.52 ON RIGHT	TO END OF LOOP	N/A	0.400	0.000	0.400	3		0	AS	3
0202C	104985		WATCHMAN CAMPGROUND LOOP C	FROM ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS) AT MP 0.02 ON RIGHT	TO END OF LOOP	N/A	0.290	0.000	0.290	3		0	AS	3
0202D	104989		WATCHMAN CAMPGROUND LOOP D	FROM ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS) AT MP 0.06 ON RIGHT	TO END OF LOOP	N/A	0.280	0.000	0.280	3		0	AS	3

# NPS/RIP Route ID Report

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Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

= Concession Route Flag ON

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## ZION

### ZION NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description		Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
				From	To									
0202E	104993		WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.37 ON LEFT	TO ROUTE 0942 (WATCHMAN MAINTENANCE STORE AREA PARKING)	N/A	0.130	0.000	0.130	3		0	AS	3
0202F	N/A		WATCHMAN CAMPGROUND LOOP F	FROM ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B) AT MP 0.11	TO ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B) AT MP 0.24	N/A	0.190	0.000	0.190	3		0	AS	3
0204	65635		MIA CAMP ROAD	FROM ROUTE 0205 (LAVA POINT ROAD)	TO END	N/A	0.000	6.300	6.300	2		0	GR	
0205	65634		LAVA POINT ROAD	FROM WEST PARK BOUNDARY	TO END	N/A	0.000	0.850	0.850	3		0	GR	
0206	65632		SMITH MESA ROAD	FROM ROUTE 0012 (KOLOB TERRACE ROAD SOUTH)	TO WEST PARK BOUNDARY	N/A	0.000	1.000	1.000	3		0	GR	
0207	65469		WATCHMAN TRAIL ROAD	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.17 ON LEFT	TO ROUTE 0401 (WATCHMAN RESIDENCE ROAD) AND ROUTE 0400 (WATCHMAN HOUSING COMPLEX ROAD) INTERSECTION	N/A	0.370	0.000	0.370	3		0	AS	3
0208	65431		EAST RIM TRAIL ACCESS	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 11.49 ON LEFT	TO END OF PAVEMENT	N/A	0.080	0.000	0.080	3		0	AS	5
0209	65637		UPPER LEE VALLEY ROAD	FROM ROUTE 0014 (KOLOB TERRACE ROAD NORTH) ON RIGHT	TO END	N/A	0.000	0.750	0.750	3		0	GR	
0400	65432		WATCHMAN HOUSING COMPLEX ROAD	FROM ROUTE 0401 (WATCHMAN RESIDENCE ROAD) AT MP 0.33 ON LEFT	TO INTERSECTION OF ROUTE 0207 (WATCHMAN TRAIL ROAD) AND END OF ROUTE 0401 (WATCHMAN RESIDENCE ROAD)	N/A	0.180	0.000	0.180	5		0	AS	3
0401	90340		WATCHMAN RESIDENCE ROAD	FROM ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD) AT MP 0.05 ON RIGHT	TO INTERSECTION OF ROUTE 0207 (WATCHMAN TRAIL ROAD) AND END OF ROUTE 0400 (WATCHMAN HOUSING COMPLEX ROAD)	N/A	0.480	0.000	0.480	5		0	AS	3
0402	65433		OAK CREEK ROAD	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.68 ON LEFT	TO ROUTE 0909C (OAK CREEK MAINTENANCE OVERFLOW PARKING C)	N/A	0.570	0.000	0.570	5		0	AS	3
0403	65435		OAK CREEK HEADQUARTERS ROAD	FROM ROUTE 0402 (OAK CREEK ROAD) AT MP 0.04 ON RIGHT AND LEFT	TO ROUTE 0908 (ADMINISTRATION PARKING)	N/A	0.080	0.000	0.080	5		0	AS	3

# NPS/RIP Route ID Report

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Grey = Paved Routes, ARAN not Driven	Black = Paved State, Local or Private non-NPS Routes, ARAN Driven		■ = Concession Route Flag ON

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## ZION

### ZION NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0404	65436		VISITOR CENTER RESIDENTIAL ROAD	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.32 ON LEFT	TO DEAD END	N/A	0.070	0.000	0.070	5		0	AS	4
0407	65427		OAK CREEK RESIDENCE ROAD	FROM ROUTE 0402 (OAK CREEK ROAD) AT MP 0.30 ON RIGHT	TO DEAD END	N/A	0.230	0.000	0.230	5		0	AS	3
0408	90348		OAK CREEK RESIDENCE SPUR ROAD	FROM ROUTE 0407 (OAK CREEK RESIDENCE ROAD) AT MP 0.08 ON RIGHT	TO DEAD END	N/A	0.180	0.000	0.180	6		0	AS	3
0409	65505	■	HORSE CORRAL ROAD / BIRCH CREEK ROAD	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 1.64 ON LEFT	TO DEAD END	N/A	0.150	0.000	0.150	5		0	AS	4
0410	65660	■	KOLOB SERVICE ROAD	FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 0.07 ON LEFT	TO UNPAVED ROUTE	N/A	0.450	0.000	0.450	6		0	AS	1
0411	90349	■	KOLOB RESIDENCE ROAD	FROM ROUTE 0410 (KOLOB SERVICE ROAD)	TO ROUTE 0410 (KOLOB SERVICE ROAD)	N/A	0.000	0.000	0.000	6		6,113	AS	1
0412	90351	■	CONCESSIONAIRE / DORM ACCESS ROAD	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.48 ON RIGHT	TO END OF LOOP	N/A	0.350	0.000	0.350	6		0	AS	4
0413	65636		FIRE PIT KNOLL CABIN ROAD	FROM ROUTE 0014 (KOLOB TERRACE ROAD NORTH) ON LEFT	TO END	N/A	0.000	1.500	1.500	6		0	GR	
0900	65438		SOUTH ENTRANCE PARKING	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY)	TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY)	N/A	0.000	0.000	0.000			12,497	AS	3
0901	65470		EMPLOYEE VISITOR CENTER PARKING	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.12 ON LEFT	TO ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.15 ON LEFT	N/A	0.000	0.000	0.000			5,804	AS	3
0902	65482		VISITOR CENTER PARKING	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.20 ON RIGHT	TO PARKING	N/A	0.000	0.000	0.000			158,255	AS	3
0903	65483		WATCHMAN CAMPGROUND DUMP STATION PARKING	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.38 ON LEFT	TO INTERSECTION OF ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.41 ON LEFT AND ROUTE 0202A (WATCHMAN CAMPGROUND LOOP A)	N/A	0.000	0.000	0.000			6,218	AS	3
0904	65471		WATCHMAN AMPHITHEATER LOOP B PARKING	ADJACENT TO ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B) ON RIGHT		N/A	0.000	0.000	0.000			3,467	AS	3

# NPS/RIP Route ID Report

Road Inventory Program 08/24/2010

(Numerical By Route #)

Page 4 of 10

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## ZION

### ZION NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0905	65484		SOUTH CAMPGROUND DUMP STATION	ADJACENT TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) ON LEFT	N/A	0.000	0.000	0.000			6,454	AS	3
0906	65472		ZION NATURE CENTER PARKING	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) ON LEFT TO PARKING	N/A	0.000	0.000	0.000			29,688	AS	3
0907	65474		SOUTH CAMPGROUND / AMPHITHEATER PARKING	FROM ROUTE 0906 (ZION NATURE CENTER PARKING) TO PARKING	N/A	0.000	0.000	0.000			24,775	AS	3
0908	65475		ADMINISTRATION PARKING	FROM END OF ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD) TO PARKING	N/A	0.000	0.000	0.000			19,787	AS	3
0909A	65476		NORTH MAINTENANCE AREA PARKING A	ADJACENT TO ROUTE 0402 (OAK CREEK ROAD) ON LEFT	N/A	0.000	0.000	0.000			2,080	AS	3
0909B	104999		OAK CREEK MAINTENANCE OVERFLOW PARKING B	ADJACENT TO ROUTE 0402 (OAK CREEK ROAD) ON RIGHT	N/A	0.000	0.000	0.000			8,125	AS	3
0909C	105003		OAK CREEK MAINTENANCE OVERFLOW PARKING C	FROM END OF ROUTE 0402 (OAK CREEK ROAD) TO PARKING	N/A	0.000	0.000	0.000			49,198	AS	3
0910	65485		WATCHMAN ADMINISTRATOR PARKING	ADJACENT TO ROUTE 0401 (WATCHMAN RESIDENCE ROAD) AT MP 0.27 ON LEFT	N/A	0.000	0.000	0.000			8,260	AS	3
0911	65477		MUSEUM PARKING AREA	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.93 ON LEFT TO PARKING	N/A	0.000	0.000	0.000			50,842	AS	3
0912	65478		TUNNEL EAST PARKING CANYON OVERLOOK	ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 6.20 ON RIGHT	N/A	0.000	0.000	0.000			5,305	AS	4
0913	65479		CHECKERBOARD MESA VIEWPOINT PARKING	ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 11.28 ON LEFT	N/A	0.000	0.000	0.000			9,154	AS	5
0914	65481		EAST RIM TRAIL HEAD PARKING	FROM END OF ROUTE 0208 (EAST RIM TRAIL ACCESS) TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0915	65491		COURT OF THE PATRIARCHS PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 1.64 ON RIGHT TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 1.67 ON RIGHT	N/A	0.000	0.000	0.000			6,097	AS	4
0916	65494		WYLIE PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.31 ON RIGHT TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.36 ON RIGHT	N/A	0.000	0.000	0.000			6,599	AS	4

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Grey = Paved Routes, ARAN not Driven	Black = Paved State, Local or Private non-NPS Routes, ARAN Driven		<span style="display: inline-block; width: 10px; height: 10px; background-color: maroon; border: 1px solid black;"></span> = Concession Route Flag ON

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## ZION

### ZION NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0917	65496		ZION LODGE CABIN PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) ON RIGHT AND ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) ON LEFT TO PARKING	N/A	0.000	0.000	0.000			92,085	AS	4
0918	65497		WEST RIM TRAILHEAD PARKING	ADJACENT TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 3.37 ON LEFT	N/A	0.000	0.000	0.000			4,097	AS	4
0919	65498		GROTTO PICNIC PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 3.37 ON RIGHT TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 3.44 ON RIGHT	N/A	0.000	0.000	0.000			19,996	AS	4
0920	65499		WEeping ROCK PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) ON RIGHT TO PARKING	N/A	0.000	0.000	0.000			18,109	AS	4
0921	65500		THE GREAT WHITE THRONE PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) TO ROUTE 0011 (ZION SCENIC CANYON DRIVE)	N/A	0.000	0.000	0.000			5,740	AS	4
0922	65501		BIG BEND BUS AND TRAILER PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 5.09 ON LEFT TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) ON LEFT	N/A	0.000	0.000	0.000			14,266	CO	4
0923	65502		TEMPLE OF SINAWAVA PARKING	FROM END OF ROUTE 0011 (ZION SCENIC CANYON DRIVE) TO PARKING	N/A	0.000	0.000	0.000			38,722	AS	4
0924	65503		EMERALD POOLS HORSE CORRAL PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) TO PARKING	N/A	0.000	0.000	0.000			16,933	AS	4
0925A	65504		ZION LODGE VISITOR PARKING	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.81 ON RIGHT TO PARKING	N/A	0.000	0.000	0.000			39,786	AS	4
0925B	105002		ZION LODGE MAINTENANCE PARKING	FROM ROUTE 0925A (ZION LODGE VISITOR PARKING) TO PARKING	N/A	0.000	0.000	0.000			5,521	AS	4
0926	65661		KOLOB VISITORS CENTER PARKING	FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 0.05 ON RIGHT TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 0.13 ON RIGHT	N/A	0.000	0.000	0.000			40,635	AS	1
0927	65665		TAYLOR CREEK TRAILHEAD PARKING	FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 2.02 ON LEFT TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 2.07 ON LEFT	N/A	0.000	0.000	0.000			15,743	AS	1
0928	65663		SOUTH FORK PARKING AREA	FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 3.24 ON RIGHT TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 3.29 ON RIGHT	N/A	0.000	0.000	0.000			15,732	AS	1

# NPS/RIP Route ID Report

Shading Color Key:  
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

= Concession Route Flag ON

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

## ZION

### ZION NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0929	65664	■	LEE PASS TRAILHEAD PARKING	ADJACENT TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 3.91 ON LEFT	N/A	0.000	0.000	0.000			4,878	AS	1
0930	65662	■	KOLOB CANYON OVERLOOK PARKING	FROM END OF ROUTE 0013 (KOLOB CANYON ROAD) TO PARKING	N/A	0.000	0.000	0.000			27,604	AS	1
0931A	90355	■	CONCESSIONAIRE / DORM PARKING A	ADJACENT TO ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) AT MP 0.08 ON RIGHT	N/A	0.000	0.000	0.000			1,363	AS	4
0931B	104971	■	CONCESSIONAIRE / DORM PARKING B	ADJACENT TO ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) AT MP 0.15 ON RIGHT	N/A	0.000	0.000	0.000			6,743	AS	4
0931C	104972		CONCESSIONAIRE / DORM PARKING C	ADJACENT TO ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) AT MP 0.19 ON RIGHT	N/A	0.000	0.000	0.000			1,780	AS	4
0932	90403		CANYON OVERLOOK PARKING	ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 6.30 ON LEFT	N/A	0.000	0.000	0.000			2,652	AS	4
0933A	90404		PINE CREEK OVERLOOK PARKING A	ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.63 ON RIGHT	N/A	0.000	0.000	0.000			1,283	AS	4
0933B	104937		PINE CREEK OVERLOOK PARKING B	ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.71 ON RIGHT	N/A	0.000	0.000	0.000			3,076	AS	4
0934	90405	■	PTI FACILITY PARKING	FROM ROUTE 0207 (WATCHMAN TRAIL ROAD) AT MP 0.03 ON RIGHT TO PARKING	N/A	0.000	0.000	0.000			112,448	AS	3
0935	90406		WATCHMAN CAMPGROUND WALK-IN PARKING	FROM ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS) AT MP 0.04 ON LEFT TO ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS) AT MP 0.09 ON LEFT	N/A	0.000	0.000	0.000			11,000	AS	3
0936	65437		ZION NATURE CENTER REAR PARKING	FROM ROUTE 0907 (SOUTH CAMPGROUND / AMPHITHEATER PARKING) TO PARKING	N/A	0.000	0.000	0.000			8,079	AS	3



# NPS/RIP Route ID Report

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Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

  = Concession Route Flag ON

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

## ZION

### ZION NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0937	90407		ZION CANYON VISITOR CENTER SHUTTLE BUS PARKING	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.17 ON RIGHT TO PARKING	N/A	0.000	0.000	0.000			12,344	AS	3
0938	90409	■	KOLOB CANYON MAINTENANCE PARKING	FROM ROUTE 0410 (KOLOB SERVICE ROAD) AT MP 0.38 ON RIGHT TO PARKING	N/A	0.000	0.000	0.000			9,076	AS	1
0939	N/A		EAST ENTRANCE STATION PARKING AREA	ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 11.52 ON RIGHT	N/A	0.000	0.000	0.000			4,558	AS	5
0940	65606		E.O.C. PARKING AREA	FROM ROUTE 0402 (OAK CREEK ROAD) AT MP 0.08 ON RIGHT TO ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD) AT MP 0.02 ON LEFT	N/A	0.000	0.000	0.000			32,010	AS	3
0941	N/A		HEADQUARTERS WATCHMAN JUNCTION PARKING	ADJACENT TO ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD) AT MP 0.05 ON LEFT	N/A	0.000	0.000	0.000			1,817	AS	3
0942	N/A		WATCHMAN MAINTENANCE STORE AREA PARKING	FROM END OF ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS) TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0943	N/A		UPPER LEE PASS PARKING	ADJACENT TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 4.49 ON LEFT	N/A	0.000	0.000	0.000			5,472	AS	1
0944	N/A		BIRCH CREEK CORRAL PARKING	FROM ROUTE 0409 (HORSE CORRAL ROAD / BIRCH CREEK ROAD) ON LEFT TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0945	N/A		SOUTH ENTRANCE STATION EMPLOYEE PARKING	ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) ON LEFT	N/A	0.000	0.000	0.000			1,276	AS	3
0946	N/A		OAK CREEK DORM PARKING	ADJACENT TO ROUTE 0408 (OAK CREEK RESIDENCE SPUR ROAD) AT MP 0.17 ON LEFT	N/A	0.000	0.000	0.000			1,436	AS	3
0947	N/A		RIGHT FORK TRAILHEAD PARKING	FROM ROUTE 0012 (KOLOB TERRACE ROAD SOUTH) AT MP 0.45 ON RIGHT TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0948	N/A		GRAPEVINE TRAILHEAD PARKING	FROM ROUTE 0012 (KOLOB TERRACE ROAD SOUTH) AT MP 0.80 ON RIGHT TO PARKING	N/A	0.000	0.000	0.000			0	GR	





# NPS/RIP Route ID Report

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Grey = Paved Routes, ARAN not Driven	Black = Paved State, Local or Private non-NPS Routes, ARAN Driven	■ = Concession Route Flag ON	

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## General Park Road Functional Classification Table

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

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

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

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

## Surface Type Abbreviations:

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

# NPS/RIP Subcomponent Details for ZION

Road Inventory Program 08/24/2010

(Numerical By Subcomponent #)

Page 1 of 1

Shading Color Key:

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White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

■ = Concession Route Flag ON

■ = Subcomponent Flag ON

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

## ZION

ZION NATIONAL PARK

### Asset Entered in FMSS System

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0200ZZ	104928	■	SOUTH CAMPGROUND INSIDE ROADS	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)	THROUGH CAMPGROUND		3	0.90	0.00	0.90	0

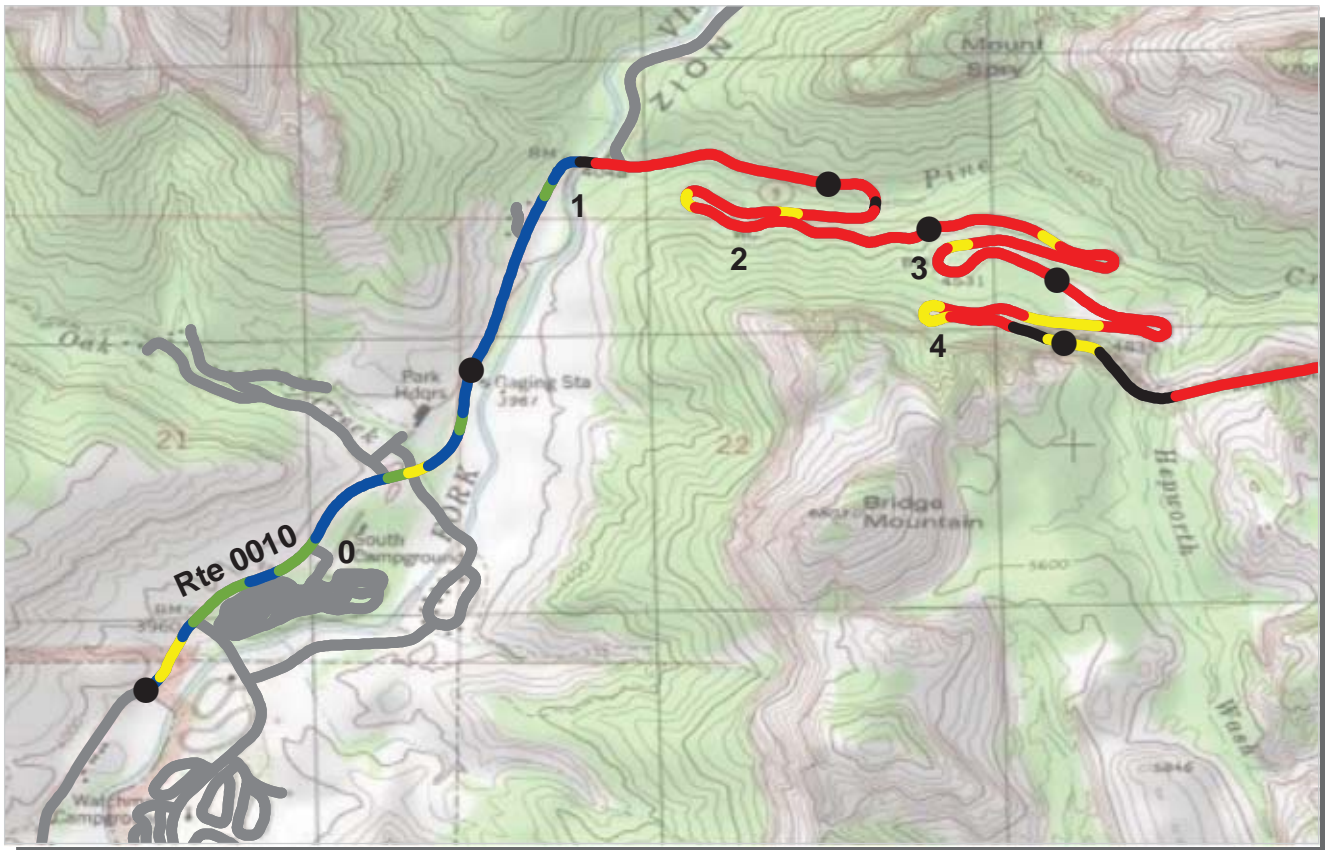
### Asset ZION-0200ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	From	To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0200AZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.32 ON LEFT	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.36 ON LEFT		3	0.13	0.00	0.13	0
0200BZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD B	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.15 ON LEFT	TO ROUTE 0200AZ (SOUTH CAMPGROUND INSIDE ROAD A)		3	0.15	0.00	0.15	0
0200CZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD C	FROM ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.38 ON LEFT		3	0.17	0.00	0.17	0
0200DZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD D	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.45 ON LEFT	TO ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)		3	0.09	0.00	0.09	0
0200EZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD E	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.12 ON LEFT	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.55 ON LEFT		3	0.05	0.00	0.05	0
0200FZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD F	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.11 ON LEFT	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.82 ON LEFT		3	0.12	0.00	0.12	0
0200GZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD G	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.67 ON LEFT	TO ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)		3	0.06	0.00	0.06	0
0200HZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD H	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.68 ON LEFT	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.81 ON LEFT		3	0.09	0.00	0.09	0
0200IZ	104928	■	SOUTH CAMPGROUND INSIDE ROAD I	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.56 ON LEFT	TO ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)		3	0.04	0.00	0.04	0

# Zion National Park



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



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

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

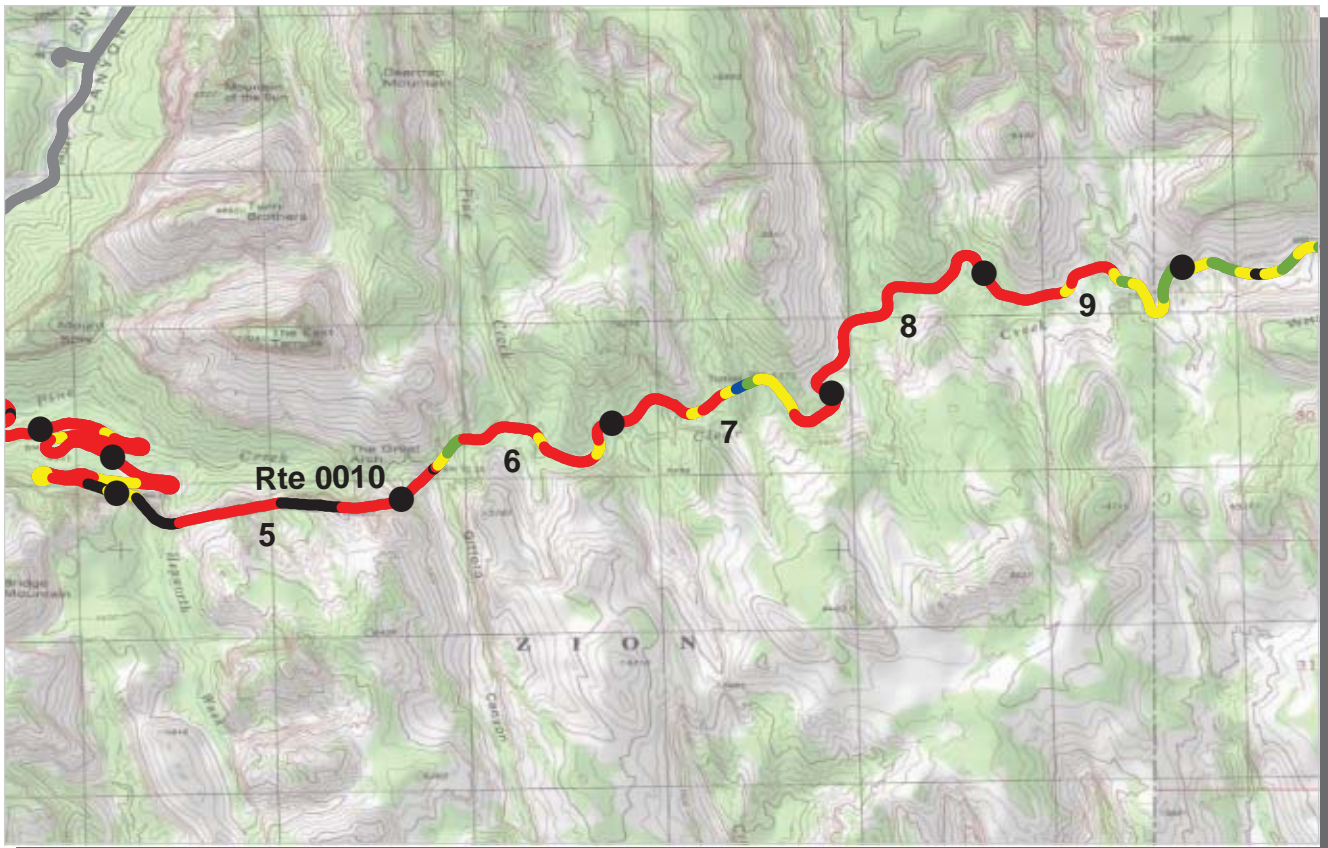
**ROUTE: 0010 ZION-MT CARMEL HIGHWAY**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 12.25 Miles**

**INTERMOUNTAIN REGION**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	39	26	25	24	28
Lane Width (ft)	15	12	12	12	13
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	93	64	46	46	58
PCR (Pavement Condition Rating)	93	69	49	47	55
<b>Distress Index Values</b>					
Alligator Cracking Index	100	99	99	99	100
Longitudinal Cracking Index	100	92	85	88	90
Transverse Cracking Index	100	89	86	88	92
Patching Index	100	100	100	100	100
Rutting Index	93	84	76	72	77
Roughness Condition Index (RCI)	95	76	54	49	51

**ROUTE: 0010 ZION-MT CARMEL HIGHWAY**



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

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

**ROUTE: 0010 ZION-MT CARMEL HIGHWAY**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 12.25 Miles**

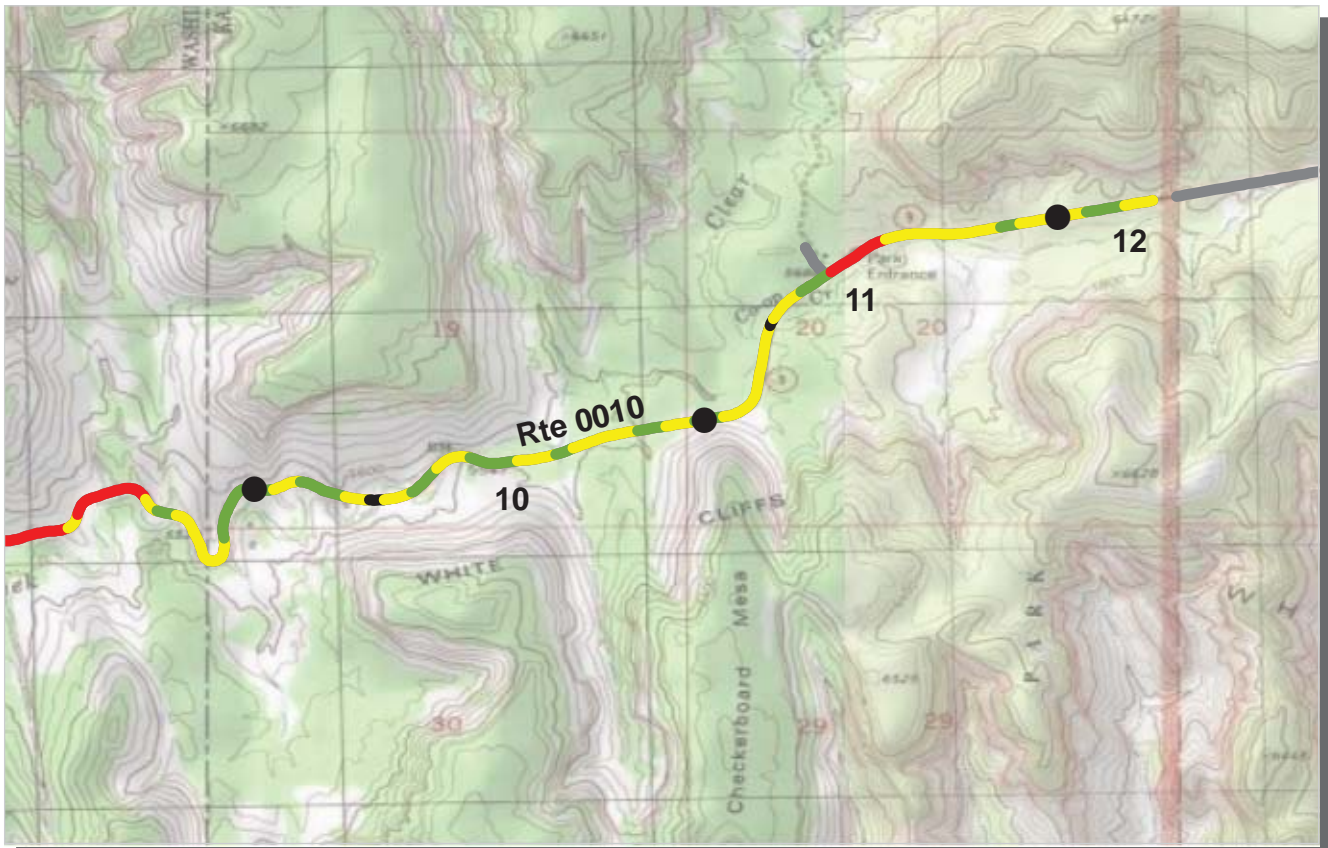
**INTERMOUNTAIN REGION**

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	21	23	24	23	25
Lane Width (ft)	9	10	11	11	12
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	67	54	50	37	66
PCR (Pavement Condition Rating)	11	46	53	44	65
<b>Distress Index Values</b>					
Alligator Cracking Index	100	87	91	88	94
Longitudinal Cracking Index	97	91	91	83	93
Transverse Cracking Index	94	89	86	79	87
Patching Index	100	100	100	100	100
Rutting Index	76	87	83	87	91
Roughness Condition Index (RCI)	6	49	58	54	63

**ROUTE: 0010 ZION-MT CARMEL HIGHWAY**

NC - Not Collected





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

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

**ROUTE: 0010 ZION-MT CARMEL HIGHWAY**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 12.25 Miles**

**INTERMOUNTAIN REGION**

Section Number	10	11	12		
Section Length (mi)	1.00	1.00	0.25		
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2		
Paved Width (ft)	25	28	26		
Lane Width (ft)	12	12	11		
Shoulder Width Right (ft)	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC		
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	81	78	84		
PCR (Pavement Condition Rating)	81	75	83		
<b>Distress Index Values</b>					
Alligator Cracking Index	100	99	100		
Longitudinal Cracking Index	96	94	95		
Transverse Cracking Index	89	90	91		
Patching Index	100	100	100		
Rutting Index	96	95	98		
Roughness Condition Index (RCI)	79	71	81		

**ROUTE: 0010 ZION-MT CARMEL HIGHWAY**

NC - Not Collected



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

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

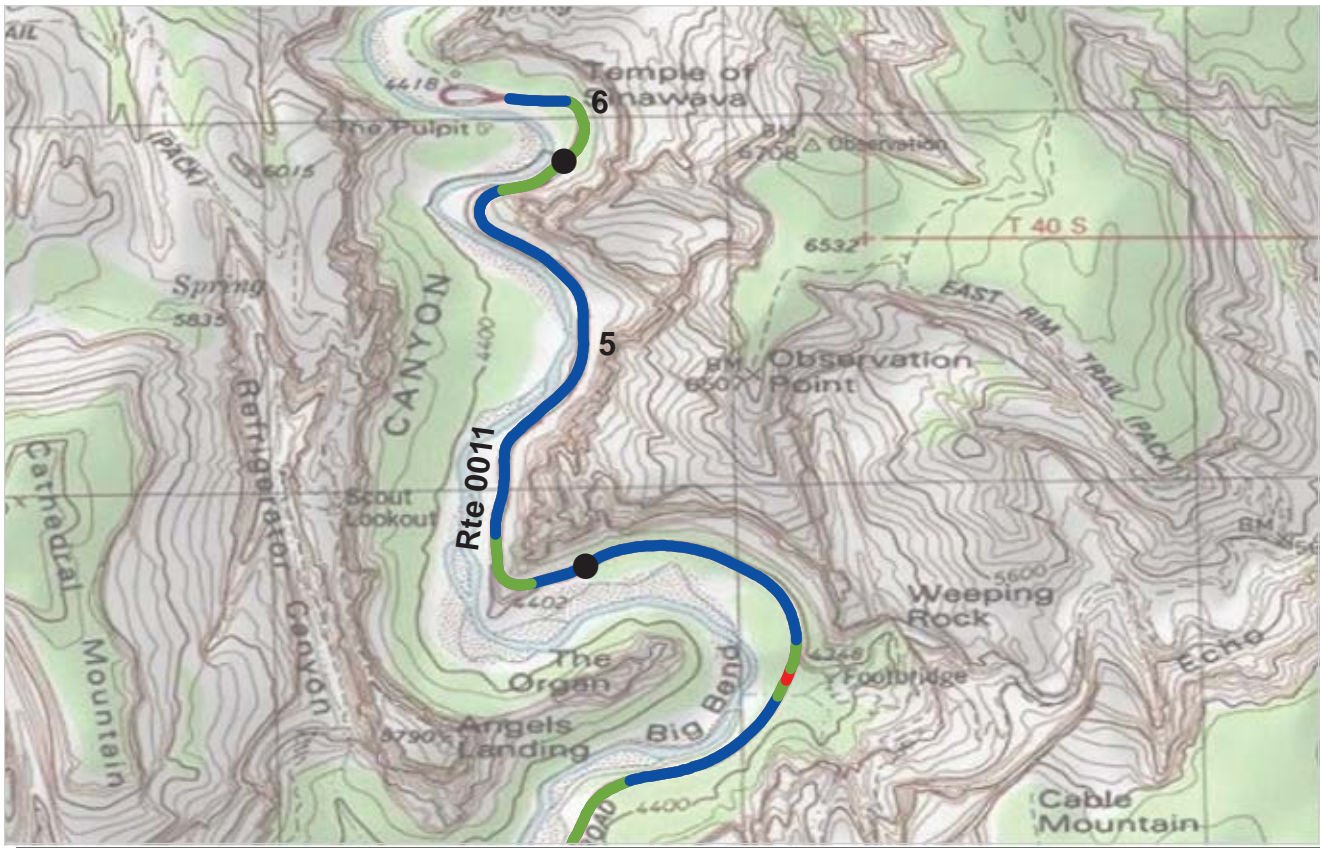
**ROUTE: 0011 ZION SCENIC CANYON DRIVE**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 6.19 Miles**

**INTERMOUNTAIN REGION**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	3	2	2	2	2
Paved Width (ft)	27	27	24	25	24
Lane Width (ft)	13	12	12	12	12
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	95	95	95	96	96
PCR (Pavement Condition Rating)	94	96	96	96	93
<b>Distress Index Values</b>					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	100	100	100	100	100
Transverse Cracking Index	100	100	100	100	100
Patching Index	100	100	100	100	100
Rutting Index	95	95	95	96	96
Roughness Condition Index (RCI)	95	99	97	97	92

**ROUTE: 0011 ZION SCENIC CANYON DRIVE**



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

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

**ROUTE: 0011 ZION SCENIC CANYON DRIVE**  
**ZION : ZION NATIONAL PARK**

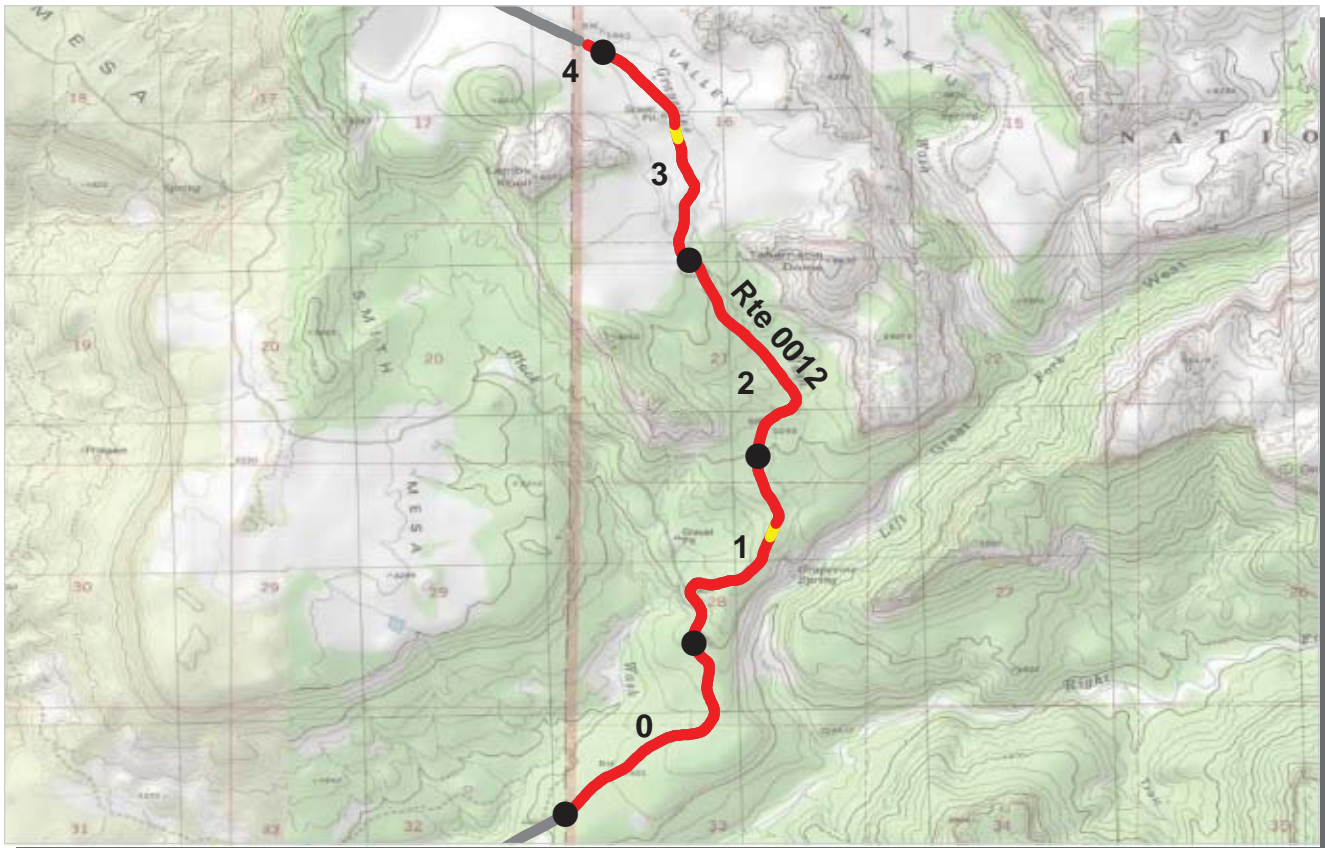
**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 6.19 Miles**

**INTERMOUNTAIN REGION**

Section Number	5	6			
Section Length (mi)	1.00	0.19			
Traffic	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	25	24			
Lane Width (ft)	12	11			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	96	96			
PCR (Pavement Condition Rating)	97	93			
Distress Index Values					
Alligator Cracking Index	100	100			
Longitudinal Cracking Index	100	100			
Transverse Cracking Index	100	100			
Patching Index	100	100			
Rutting Index	96	96			
Roughness Condition Index (RCI)	98	89			

**ROUTE: 0011 ZION SCENIC CANYON DRIVE**

NC - Not Collected



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

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

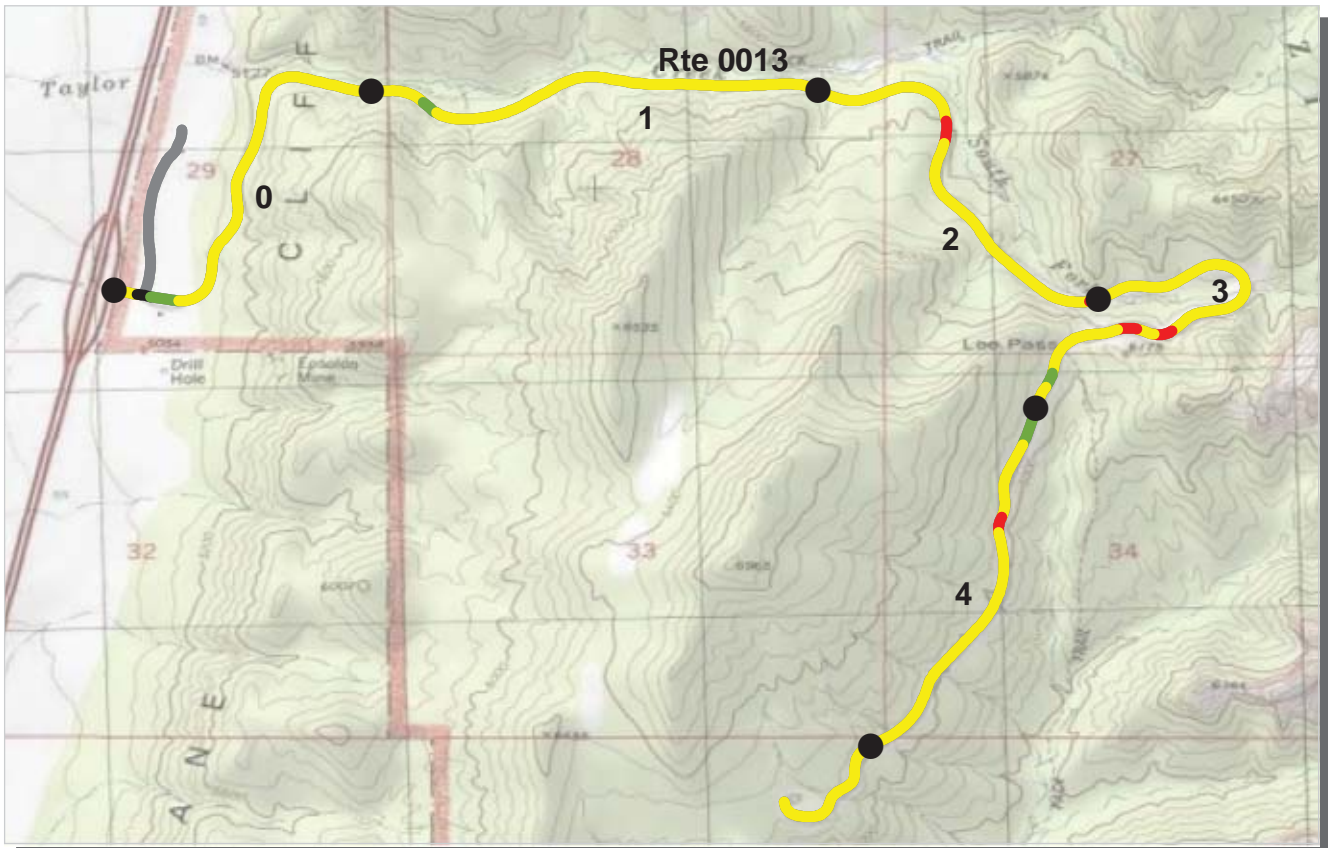
**ROUTE: 0012 KOLOB TERRACE ROAD SOUTH**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 4.09 Miles**

**INTERMOUNTAIN REGION**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.09
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	19	21	21	20
Lane Width (ft)	10	9	9	10	9
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	27	23	27	41	40
PCR (Pavement Condition Rating)	37	34	35	51	51
<b>Distress Index Values</b>					
Alligator Cracking Index	75	74	85	92	91
Longitudinal Cracking Index	87	84	86	93	87
Transverse Cracking Index	91	87	85	90	94
Patching Index	98	99	100	100	100
Rutting Index	75	78	70	65	67
Roughness Condition Index (RCI)	52	52	49	65	69

**ROUTE: 0012 KOLOB TERRACE ROAD SOUTH**



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

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

**ROUTE: 0013 KOLOB CANYON ROAD**  
**ZION : ZION NATIONAL PARK**

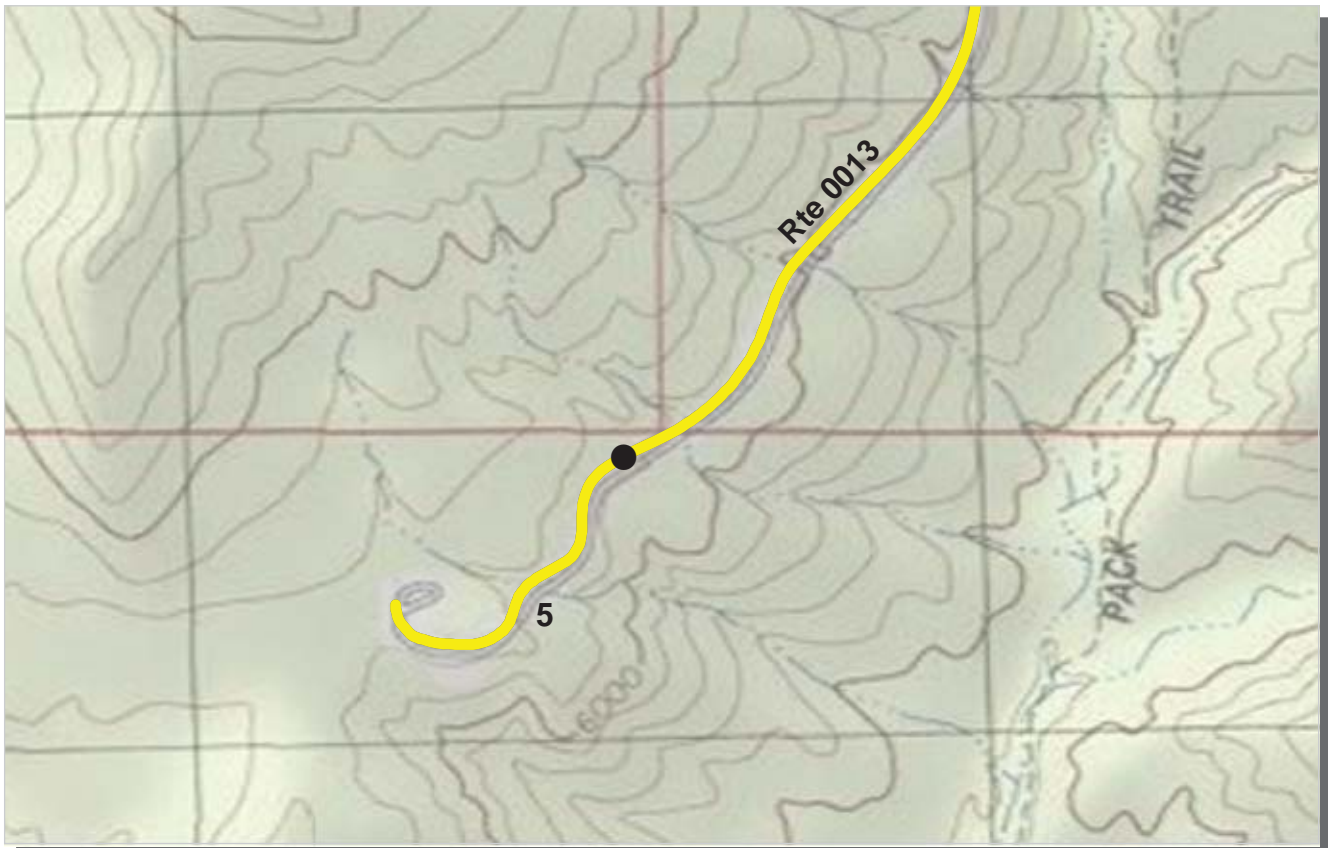
**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 5.32 Miles**

**INTERMOUNTAIN REGION**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	29	30	31	31	30
Lane Width (ft)	15	13	14	15	13
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	79	72	72	72	73
PCR (Pavement Condition Rating)	78	74	70	70	75
<b>Distress Index Values</b>					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	100	99	98	98	99
Transverse Cracking Index	100	99	99	99	99
Patching Index	100	100	100	100	100
Rutting Index	79	74	75	75	75
Roughness Condition Index (RCI)	77	77	67	67	78

**ROUTE: 0013 KOLOB CANYON ROAD**

NC - Not Collected



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

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

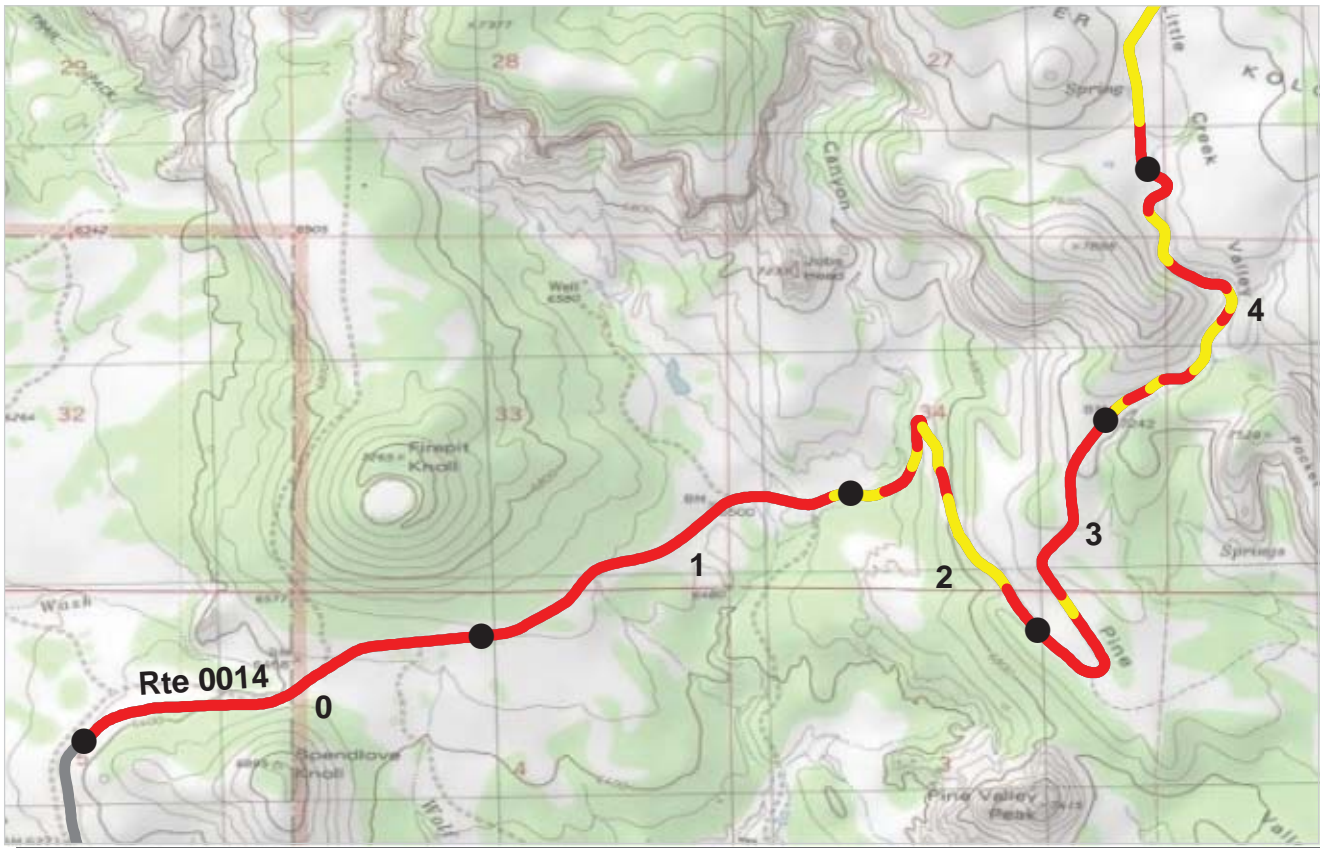
**ROUTE: 0013 KOLOB CANYON ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 5.32 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	5				
<b>Section Length (mi)</b>	0.32				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	32				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	69				
PCR (Pavement Condition Rating)	67				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	93				
Transverse Cracking Index	98				
Patching Index	100				
Rutting Index	78				
Roughness Condition Index (RCI)	63				

**ROUTE: 0013 KOLOB CANYON ROAD**



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

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

**ROUTE: 0014 KOLOB TERRACE ROAD NORTH**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 5.88 Miles**

**INTERMOUNTAIN REGION**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	20	19	19	19
Lane Width (ft)	10	9	9	9	9
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	28	30	55	41	56
PCR (Pavement Condition Rating)	41	43	60	48	58
<b>Distress Index Values</b>					
Alligator Cracking Index	83	87	97	92	96
Longitudinal Cracking Index	91	92	94	95	95
Transverse Cracking Index	88	87	89	89	93
Patching Index	100	100	100	99	98
Rutting Index	65	64	74	66	74
Roughness Condition Index (RCI)	62	62	68	59	60

**ROUTE: 0014 KOLOB TERRACE ROAD NORTH**



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

**ROUTE: 0014 KOLOB TERRACE ROAD NORTH**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 5.88 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	5				
<b>Section Length (mi)</b>	0.88				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	50				
PCR (Pavement Condition Rating)	55				
<b>Distress Index Values</b>					
Alligator Cracking Index	96				
Longitudinal Cracking Index	94				
Transverse Cracking Index	95				
Patching Index	100				
Rutting Index	64				
Roughness Condition Index (RCI)	64				

**ROUTE: 0014 KOLOB TERRACE ROAD NORTH**





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

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

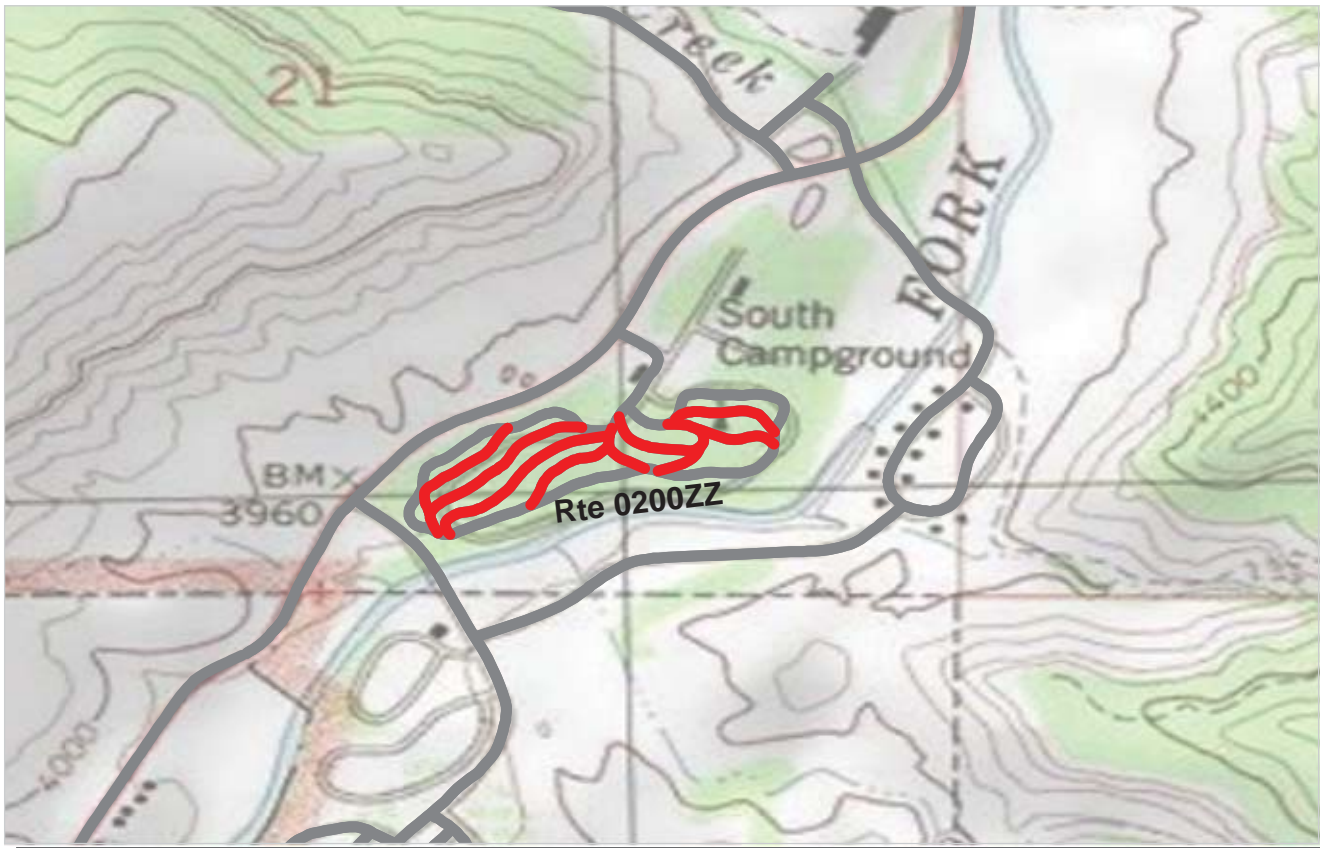
**ROUTE: 0200 SOUTH CAMPGROUND OUTER LOOP**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.86 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.86				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	42				
PCR (Pavement Condition Rating)	42				
<b>Distress Index Values</b>					
Alligator Cracking Index	90				
Longitudinal Cracking Index	91				
Transverse Cracking Index	90				
Patching Index	99				
Rutting Index	72				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0200 SOUTH CAMPGROUND OUTER LOOP**



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

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

**ROUTE: 0200ZZ SOUTH CAMPGROUND INSIDE ROADS**  
**ZION : ZION NATIONAL PARK**

Summary Record

**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.90 Miles**

<b>Section Number</b>					
<b>Section Length (mi)</b>					
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
<b>Cross Section Information</b>					
Number of Lanes	N/A				
Paved Width (ft)	N/A				
Lane Width (ft)	N/A				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	48				
PCR (Pavement Condition Rating)	48				
<b>Distress Index Values</b>					
Alligator Cracking Index	N/A				
Longitudinal Cracking Index	N/A				
Transverse Cracking Index	N/A				
Patching Index	N/A				
Rutting Index	N/A				
Roughness Condition Index (RCI)	N/A				

**ROUTE: 0200ZZ SOUTH CAMPGROUND INSIDE ROADS**



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

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

**ROUTE: 0200AZ SOUTH CAMPGROUND INSIDE ROAD A**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.13 Miles**

<i>Section Number</i>	0				
<i>Section Length (mi)</i>	0.13				
<i>Traffic</i>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	51				
PCR (Pavement Condition Rating)	51				
<i>Distress Index Values</i>					
Alligator Cracking Index	99				
Longitudinal Cracking Index	86				
Transverse Cracking Index	91				
Patching Index	100				
Rutting Index	75				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0200AZ SOUTH CAMPGROUND INSIDE ROAD A**



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

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

**ROUTE: 0200BZ SOUTH CAMPGROUND INSIDE ROAD B**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.15 Miles**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.15				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	44				
PCR (Pavement Condition Rating)	42				
<b>Distress Index Values</b>					
Alligator Cracking Index	91				
Longitudinal Cracking Index	90				
Transverse Cracking Index	86				
Patching Index	99				
Rutting Index	78				
Roughness Condition Index (RCI)	28				

**ROUTE: 0200BZ SOUTH CAMPGROUND INSIDE ROAD B**



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

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

**ROUTE: 0200CZ SOUTH CAMPGROUND INSIDE ROAD C**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.17 Miles**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.17				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	55				
PCR (Pavement Condition Rating)	55				
<b>Distress Index Values</b>					
Alligator Cracking Index	98				
Longitudinal Cracking Index	91				
Transverse Cracking Index	88				
Patching Index	100				
Rutting Index	79				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0200CZ SOUTH CAMPGROUND INSIDE ROAD C**



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

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

**ROUTE: 0200DZ SOUTH CAMPGROUND INSIDE ROAD D**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.09 Miles**

<i>Section Number</i>	0				
<i>Section Length (mi)</i>	0.09				
<i>Traffic</i>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	33				
PCR (Pavement Condition Rating)	33				
<i>Distress Index Values</i>					
Alligator Cracking Index	85				
Longitudinal Cracking Index	86				
Transverse Cracking Index	88				
Patching Index	95				
Rutting Index	78				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0200DZ SOUTH CAMPGROUND INSIDE ROAD D**



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

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

**ROUTE: 0200EZ SOUTH CAMPGROUND INSIDE ROAD E**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.05 Miles**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.05				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	41				
PCR (Pavement Condition Rating)	41				
<b>Distress Index Values</b>					
Alligator Cracking Index	92				
Longitudinal Cracking Index	81				
Transverse Cracking Index	82				
Patching Index	98				
Rutting Index	89				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0200EZ SOUTH CAMPGROUND INSIDE ROAD E**



**PCR**   Poor ■ ( $\leq 60$ )   Fair ■ (61 - 84)   Good ■ (85 - 94)   Excellent ■ (95 - 100)   No Data ■

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

**ROUTE: 0200FZ SOUTH CAMPGROUND INSIDE ROAD F  
ZION : ZION NATIONAL PARK**

Subcomponent Record

**INTERMOUNTAIN REGION**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.12 Miles**

<i>Section Number</i>	0			
<i>Section Length (mi)</i>	0.12			
<i>Traffic</i>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)			
<i>Cross Section Information</i>				
Number of Lanes	1			
Paved Width (ft)	11			
Lane Width (ft)	11			
Shoulder Width Right (ft)	NC			
Shoulder Width Left (ft)	NC			
<i>Roadway Condition Information</i>				
SCR (Surface Condition Rating)	59			
PCR (Pavement Condition Rating)	59			
<i>Distress Index Values</i>				
Alligator Cracking Index	95			
Longitudinal Cracking Index	89			
Transverse Cracking Index	90			
Patching Index	100			
Rutting Index	85			
Roughness Condition Index (RCI)	NC			

**ROUTE: 0200FZ SOUTH CAMPGROUND INSIDE ROAD F**





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

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

**ROUTE: 0200GZ SOUTH CAMPGROUND INSIDE ROAD G**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.06 Miles**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.06				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	54				
PCR (Pavement Condition Rating)	54				
<b>Distress Index Values</b>					
Alligator Cracking Index	97				
Longitudinal Cracking Index	88				
Transverse Cracking Index	87				
Patching Index	100				
Rutting Index	82				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0200GZ SOUTH CAMPGROUND INSIDE ROAD G**



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

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

**ROUTE: 0200HZ SOUTH CAMPGROUND INSIDE ROAD H**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

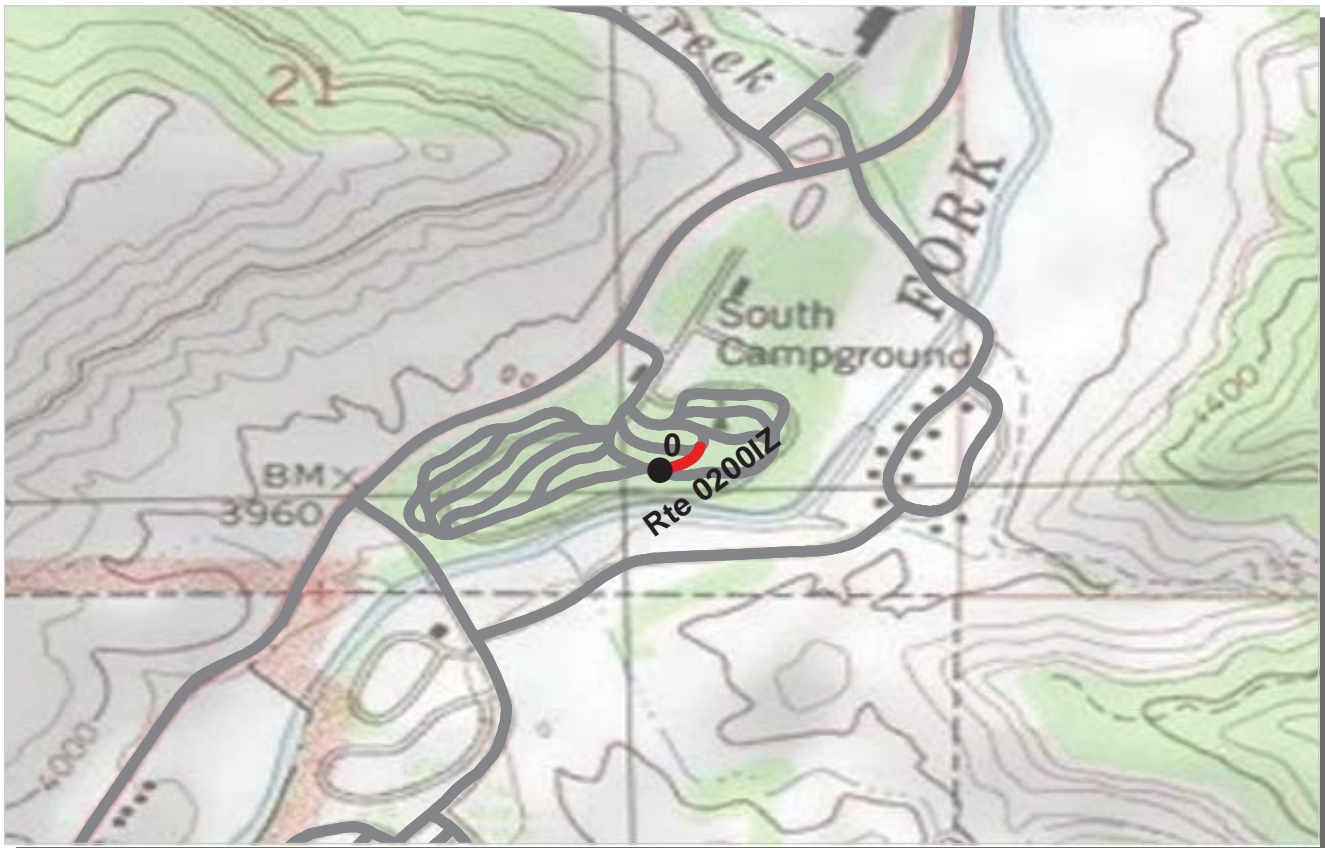
**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.09 Miles**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.09				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	42				
PCR (Pavement Condition Rating)	42				
<b>Distress Index Values</b>					
Alligator Cracking Index	99				
Longitudinal Cracking Index	82				
Transverse Cracking Index	85				
Patching Index	96				
Rutting Index	80				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0200HZ SOUTH CAMPGROUND INSIDE ROAD H**



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

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

**ROUTE: 02001Z SOUTH CAMPGROUND INSIDE ROAD I**  
**ZION : ZION NATIONAL PARK**

Subcomponent Record

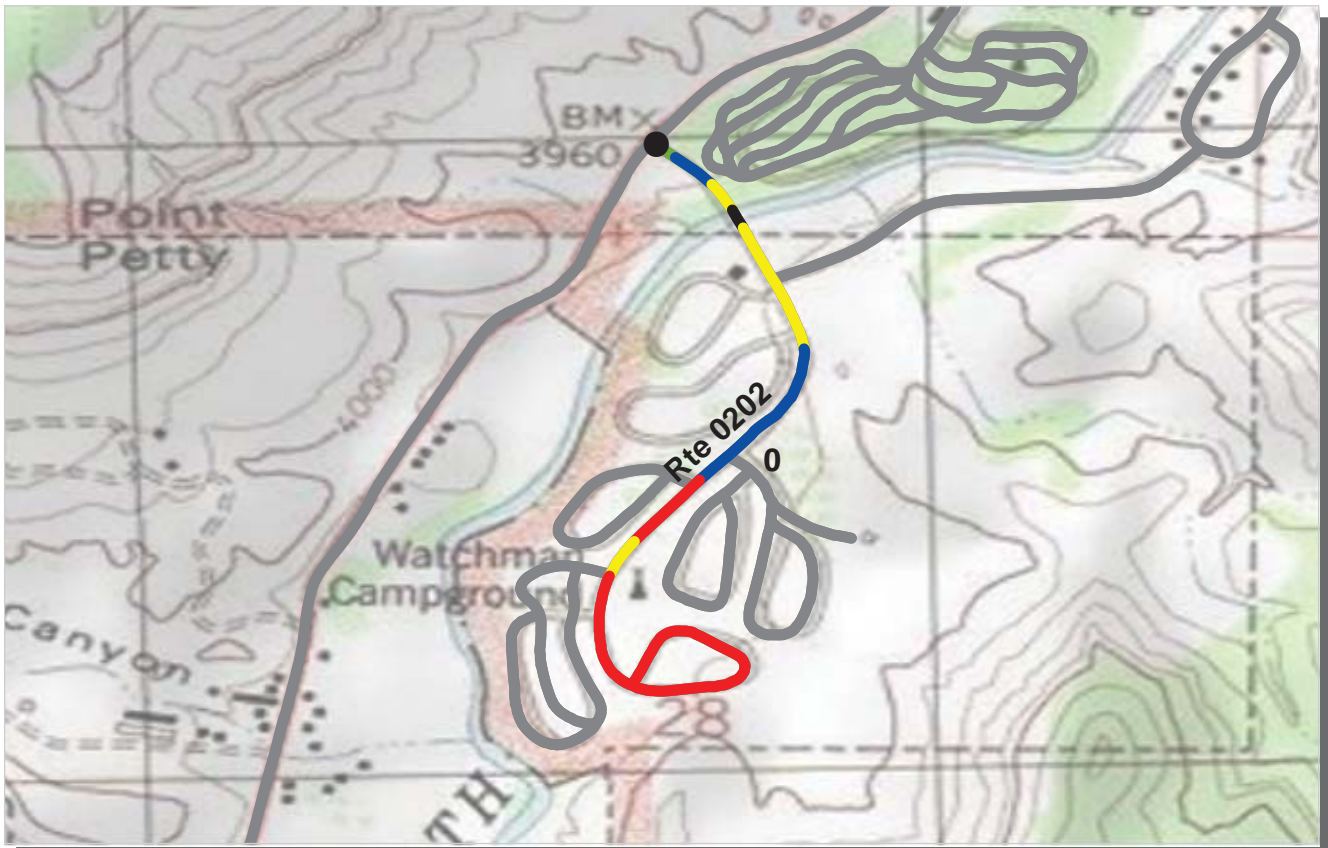
**COLLECTED: 10/3/2009**

**INTERMOUNTAIN REGION**

**TOTAL LENGTH: 0.04 Miles**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.04				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	50				
PCR (Pavement Condition Rating)	50				
<b>Distress Index Values</b>					
Alligator Cracking Index	91				
Longitudinal Cracking Index	87				
Transverse Cracking Index	86				
Patching Index	100				
Rutting Index	88				
Roughness Condition Index (RCI)	NC				

**ROUTE: 02001Z SOUTH CAMPGROUND INSIDE ROAD I**



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

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

**ROUTE: 0202 WATCHMAN CAMPGROUND ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.87 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.87				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	67				
PCR (Pavement Condition Rating)	62				
<b>Distress Index Values</b>					
Alligator Cracking Index	93				
Longitudinal Cracking Index	95				
Transverse Cracking Index	93				
Patching Index	100				
Rutting Index	86				
Roughness Condition Index (RCI)	50				

**ROUTE: 0202 WATCHMAN CAMPGROUND ROAD**



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

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

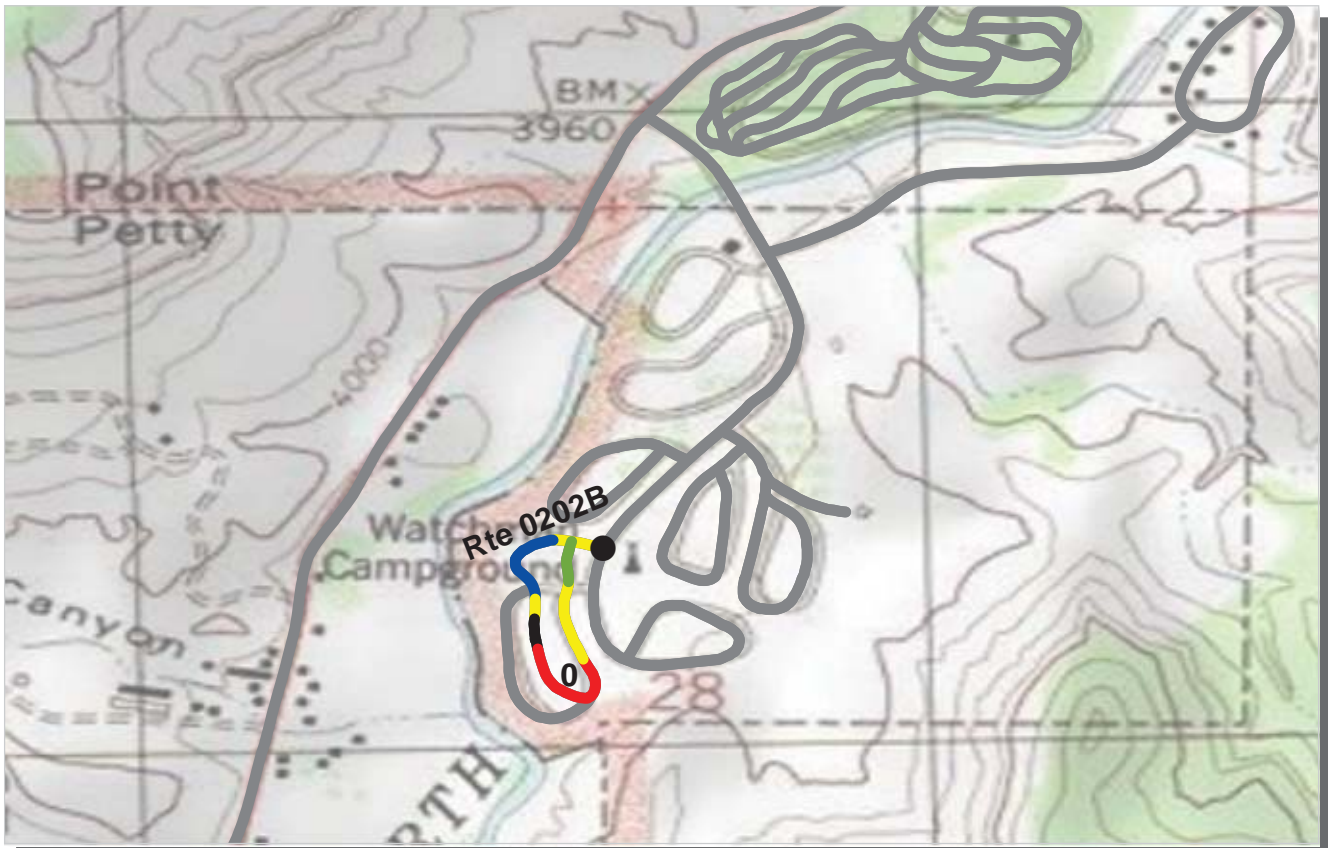
**ROUTE: 0202A WATCHMAN CAMPGROUND LOOP A**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.26 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.26				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	88				
PCR (Pavement Condition Rating)	88				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Transverse Cracking Index	97				
Patching Index	100				
Rutting Index	92				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0202A WATCHMAN CAMPGROUND LOOP A**



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

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

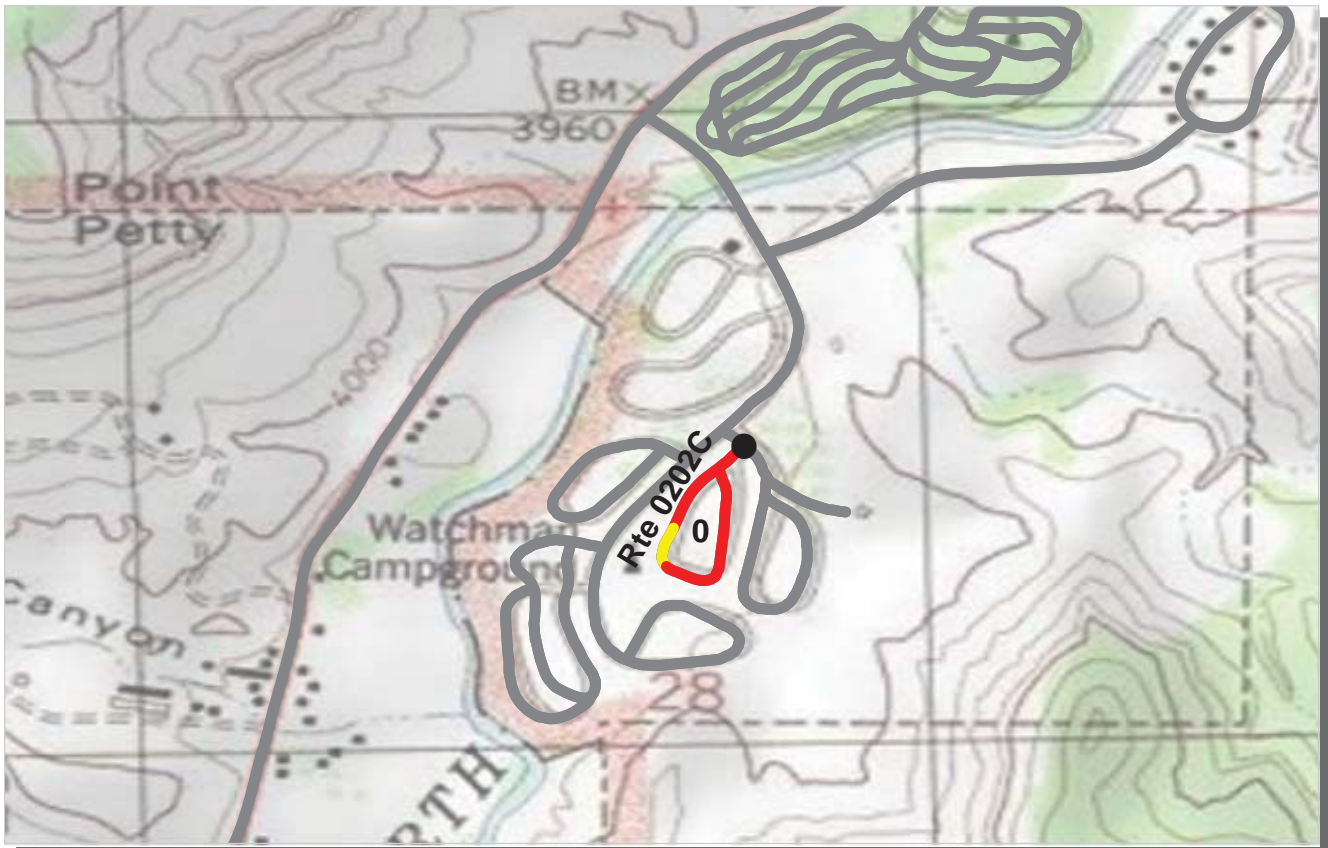
**ROUTE: 0202B WATCHMAN CAMPGROUND LOOP B**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.40 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.40				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	64				
PCR (Pavement Condition Rating)	64				
<b>Distress Index Values</b>					
Alligator Cracking Index	92				
Longitudinal Cracking Index	97				
Transverse Cracking Index	95				
Patching Index	100				
Rutting Index	80				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0202B WATCHMAN CAMPGROUND LOOP B**



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

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

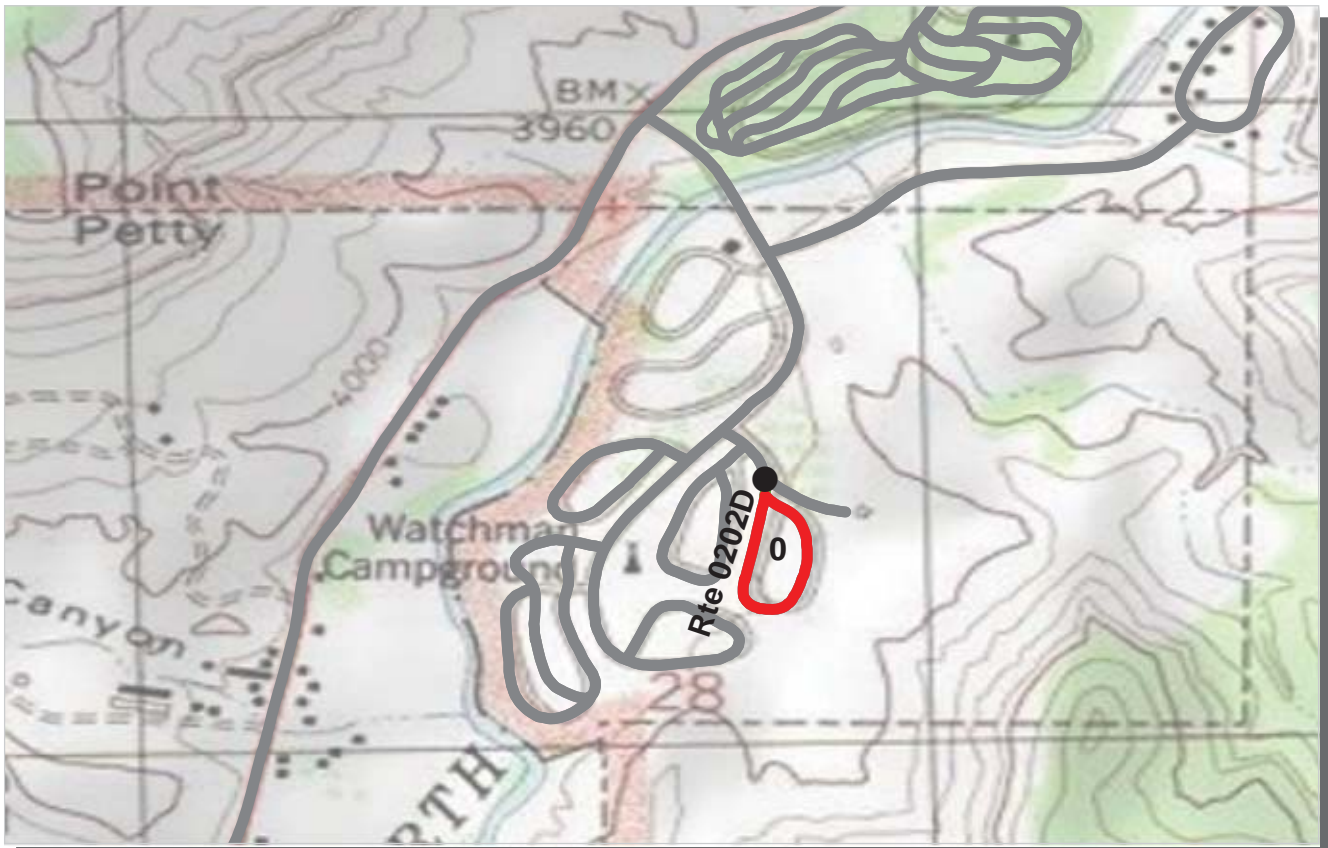
**ROUTE: 0202C WATCHMAN CAMPGROUND LOOP C**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.29 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.29				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	14				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	45				
PCR (Pavement Condition Rating)	45				
<b>Distress Index Values</b>					
Alligator Cracking Index	93				
Longitudinal Cracking Index	93				
Transverse Cracking Index	93				
Patching Index	100				
Rutting Index	67				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0202C WATCHMAN CAMPGROUND LOOP C**



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

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

**ROUTE: 0202D WATCHMAN CAMPGROUND LOOP D**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.28 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.28				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	44				
PCR (Pavement Condition Rating)	44				
<b>Distress Index Values</b>					
Alligator Cracking Index	82				
Longitudinal Cracking Index	92				
Transverse Cracking Index	92				
Patching Index	100				
Rutting Index	79				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0202D WATCHMAN CAMPGROUND LOOP D**

NC - Not Collected





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

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

**ROUTE: 0202E WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.13 Miles**

**INTERMOUNTAIN REGION**

**ROUTE: 0202E WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.13				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	74				
PCR (Pavement Condition Rating)	74				
<b>Distress Index Values</b>					
Alligator Cracking Index	99				
Longitudinal Cracking Index	97				
Transverse Cracking Index	96				
Patching Index	99				
Rutting Index	83				
Roughness Condition Index (RCI)	NC				

NC - Not Collected



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

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

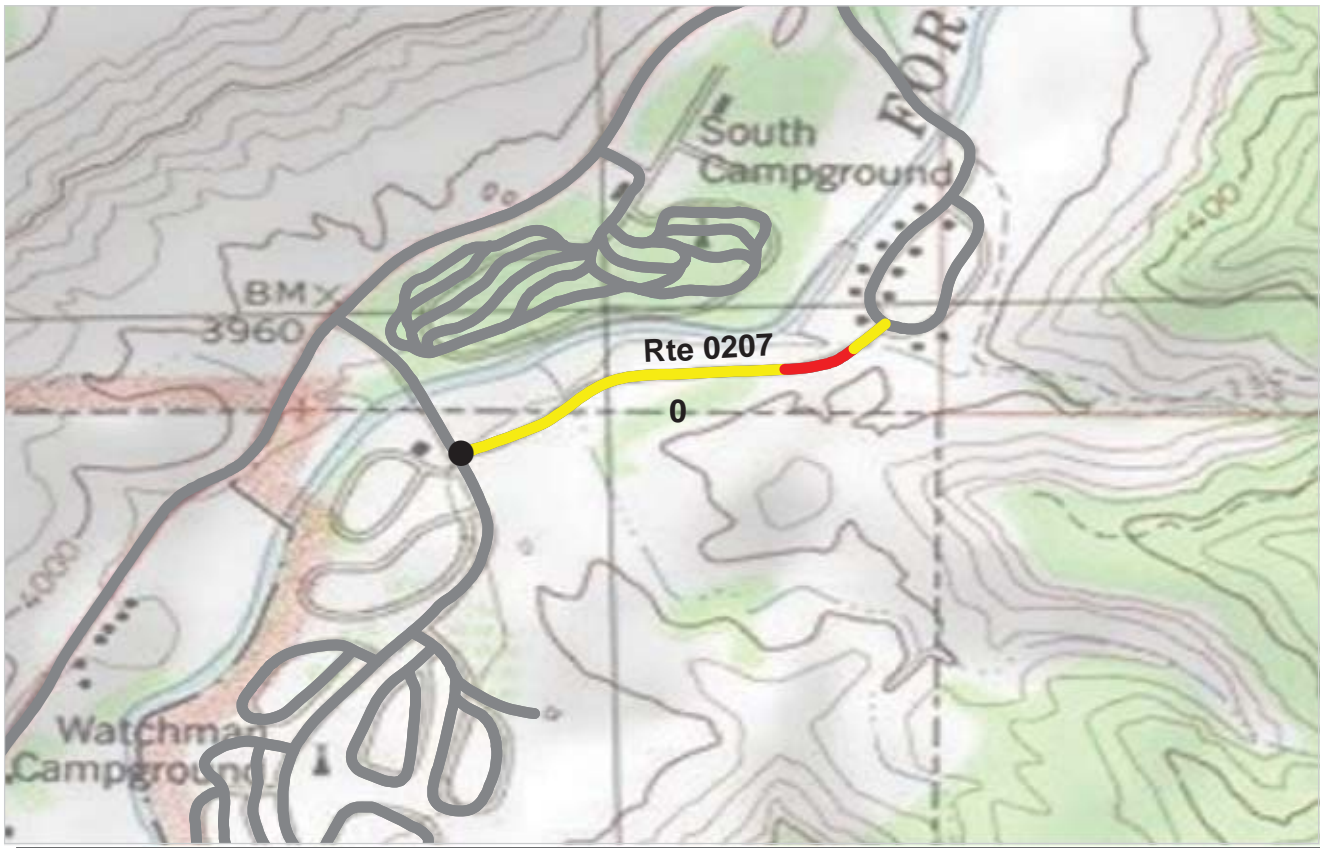
**ROUTE: 0202F WATCHMAN CAMPGROUND LOOP F**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.19 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.19				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	50				
PCR (Pavement Condition Rating)	50				
<b>Distress Index Values</b>					
Alligator Cracking Index	98				
Longitudinal Cracking Index	94				
Transverse Cracking Index	91				
Patching Index	100				
Rutting Index	67				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0202F WATCHMAN CAMPGROUND LOOP F**



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

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

**ROUTE: 0207 WATCHMAN TRAIL ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.37 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.37				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	23				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	77				
PCR (Pavement Condition Rating)	71				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	100				
Patching Index	100				
Rutting Index	78				
Roughness Condition Index (RCI)	59				

**ROUTE: 0207 WATCHMAN TRAIL ROAD**



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

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

**ROUTE: 0208 EAST RIM TRAIL ACCESS**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.08 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.08				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	14				
Lane Width (ft)	8				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	43				
PCR (Pavement Condition Rating)	43				
<b>Distress Index Values</b>					
Alligator Cracking Index	88				
Longitudinal Cracking Index	91				
Transverse Cracking Index	91				
Patching Index	100				
Rutting Index	73				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0208 EAST RIM TRAIL ACCESS**



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

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

**ROUTE: 0400 WATCHMAN HOUSING COMPLEX ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.18 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.18				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	67				
PCR (Pavement Condition Rating)	67				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	96				
Transverse Cracking Index	92				
Patching Index	100				
Rutting Index	78				
Roughness Condition Index (RCI)	79				

**ROUTE: 0400 WATCHMAN HOUSING COMPLEX ROAD**



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

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

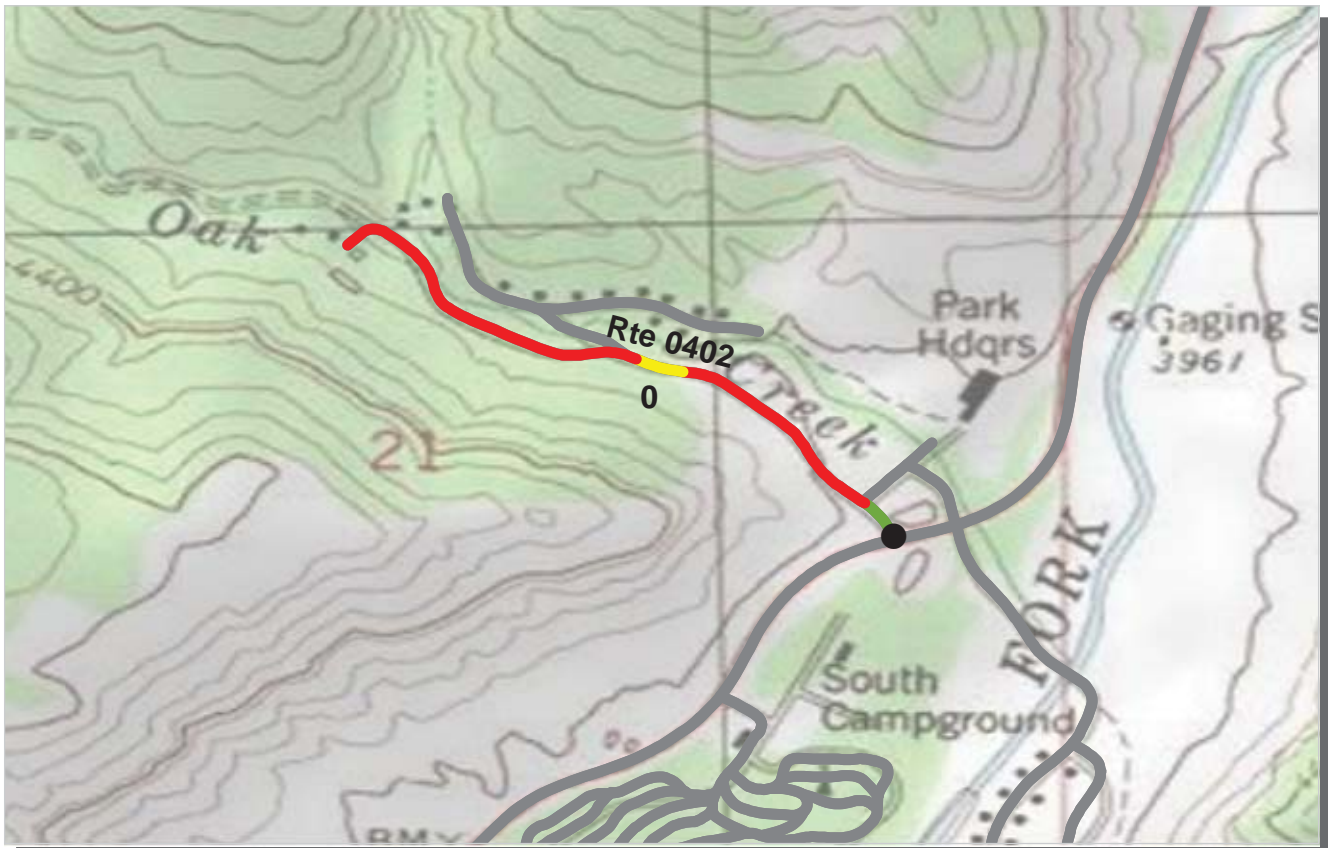
**ROUTE: 0401 WATCHMAN RESIDENCE ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.48 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.48				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	65				
PCR (Pavement Condition Rating)	62				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	95				
Transverse Cracking Index	92				
Patching Index	100				
Rutting Index	78				
Roughness Condition Index (RCI)	52				

**ROUTE: 0401 WATCHMAN RESIDENCE ROAD**



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

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

**ROUTE: 0402 OAK CREEK ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.57 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.57				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	55				
PCR (Pavement Condition Rating)	56				
<b>Distress Index Values</b>					
Alligator Cracking Index	94				
Longitudinal Cracking Index	92				
Transverse Cracking Index	87				
Patching Index	100				
Rutting Index	83				
Roughness Condition Index (RCI)	56				

**ROUTE: 0402 OAK CREEK ROAD**



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

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

**ROUTE: 0403 OAK CREEK HEADQUARTERS ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 0.08 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.08				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	59				
PCR (Pavement Condition Rating)	59				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	90				
Transverse Cracking Index	84				
Patching Index	100				
Rutting Index	85				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0403 OAK CREEK HEADQUARTERS ROAD**





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

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

**ROUTE: 0404 VISITOR CENTER RESIDENTIAL ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.07 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.07				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	15				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	48				
PCR (Pavement Condition Rating)	48				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	82				
Transverse Cracking Index	84				
Patching Index	100				
Rutting Index	82				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0404 VISITOR CENTER RESIDENTIAL ROAD**



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

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

**ROUTE: 0407 OAK CREEK RESIDENCE ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 0.23 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.23				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	57				
PCR (Pavement Condition Rating)	57				
<b>Distress Index Values</b>					
Alligator Cracking Index	95				
Longitudinal Cracking Index	94				
Transverse Cracking Index	93				
Patching Index	100				
Rutting Index	74				
Roughness Condition Index (RCI)	46				

**ROUTE: 0407 OAK CREEK RESIDENCE ROAD**



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

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

**ROUTE: 0408 OAK CREEK RESIDENCE SPUR ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 0.18 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.18				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	62				
PCR (Pavement Condition Rating)	60				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	94				
Transverse Cracking Index	93				
Patching Index	100				
Rutting Index	75				
Roughness Condition Index (RCI)	52				

**ROUTE: 0408 OAK CREEK RESIDENCE SPUR ROAD**



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

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

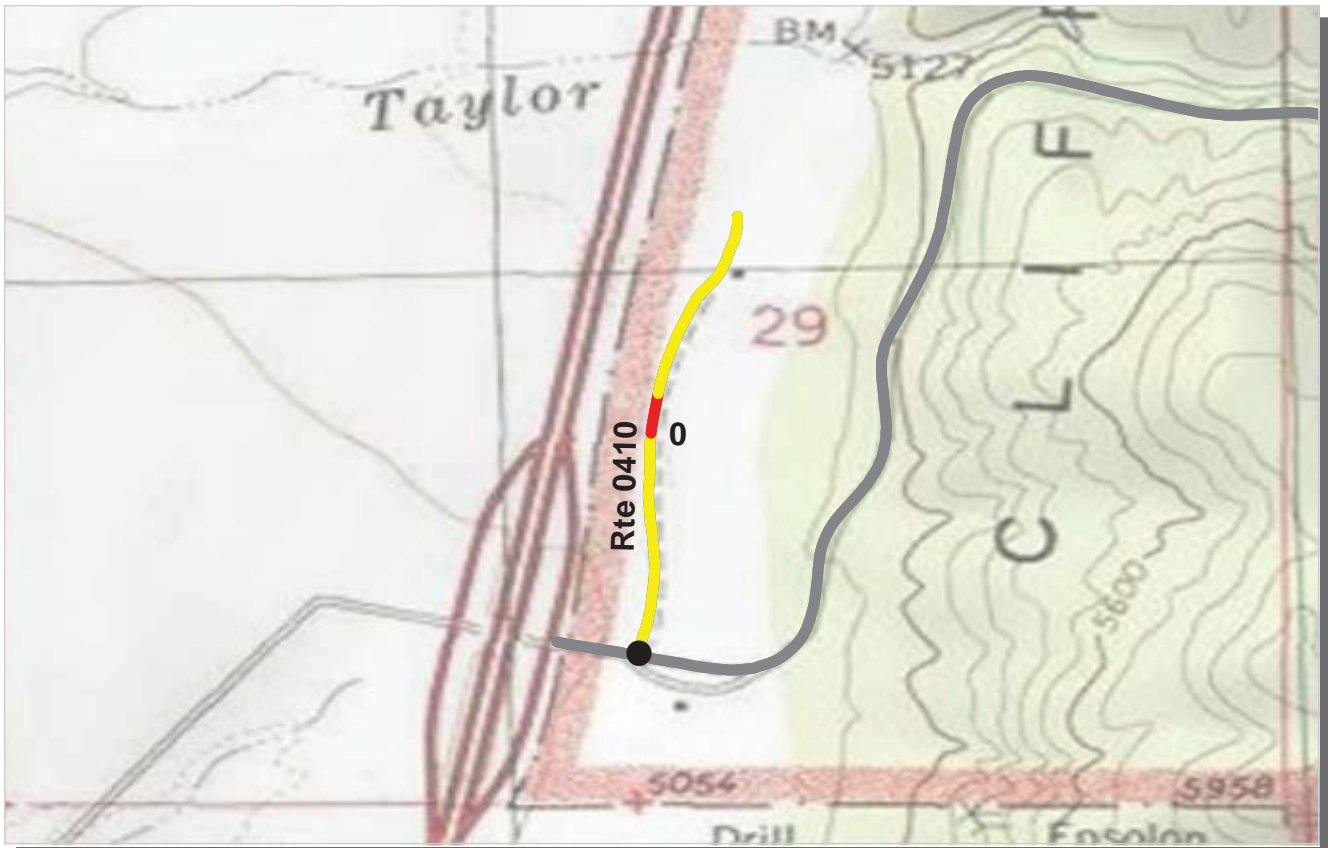
**ROUTE: 0409 HORSE CORRAL ROAD / BIRCH CREEK ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.15 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.15				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	75				
PCR (Pavement Condition Rating)	74				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	96				
Transverse Cracking Index	93				
Patching Index	100				
Rutting Index	87				
Roughness Condition Index (RCI)	50				

**ROUTE: 0409 HORSE CORRAL ROAD / BIRCH CREEK ROAD**



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

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

**ROUTE: 0410 KOLOB SERVICE ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/2/2009**  
**TOTAL LENGTH: 0.45 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.45				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	15				
Lane Width (ft)	7				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	73				
PCR (Pavement Condition Rating)	66				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Transverse Cracking Index	100				
Patching Index	100				
Rutting Index	74				
Roughness Condition Index (RCI)	52				

**ROUTE: 0410 KOLOB SERVICE ROAD**



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

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

**ROUTE: 0412 CONCESSIONAIRE / DORM ACCESS ROAD**  
**ZION : ZION NATIONAL PARK**

**COLLECTED: 10/3/2009**  
**TOTAL LENGTH: 0.35 Miles**

**INTERMOUNTAIN REGION**

<b>Section Number</b>	0				
<b>Section Length (mi)</b>	0.35				
<b>Traffic</b>	Traffic data may be found at <a href="http://www.efl.fhwa.dot.gov">www.efl.fhwa.dot.gov</a> Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<b>Roadway Condition Information</b>					
SCR (Surface Condition Rating)	81				
PCR (Pavement Condition Rating)	81				
<b>Distress Index Values</b>					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Transverse Cracking Index	97				
Patching Index	100				
Rutting Index	85				
Roughness Condition Index (RCI)	NC				

**ROUTE: 0412 CONCESSIONAIRE / DORM ACCESS ROAD**

# Zion National Park



## **Section 6**

### **Manually Rated Paved Route Condition Rating Sheets (MRR)**

# ZION NATIONAL PARK

## Route 0411

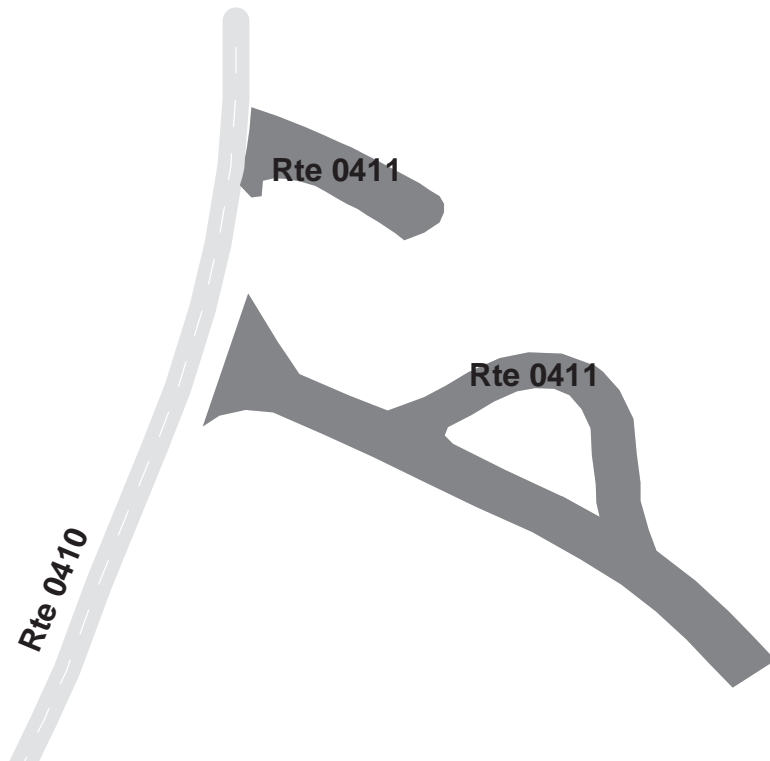
### KOLOB RESIDENCE ROAD

FROM ROUTE 0410 (KOLOB SERVICE ROAD)

TO ROUTE 0410 (KOLOB SERVICE ROAD)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0411	NONPUBLIC	7/15/2009		6,113	0.11	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths





# Zion National Park



## **Section 7** **Parking Area Condition Rating Sheets**

# ZION NATIONAL PARK

## Route 0900

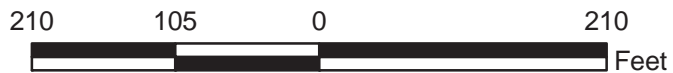
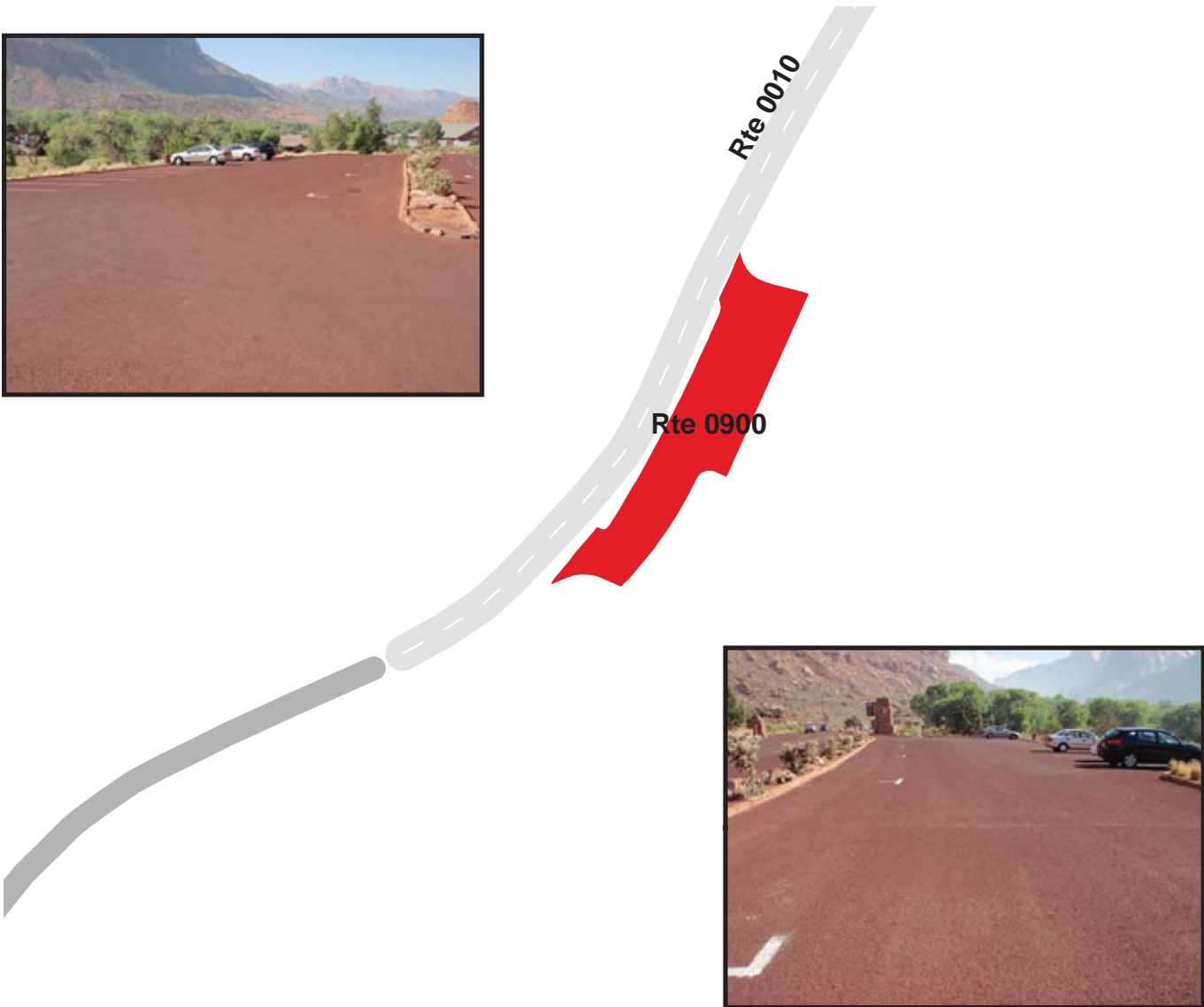
### SOUTH ENTRANCE PARKING

FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY)

TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0900	PUBLIC	7/15/2009		12,497	0.22	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	0	0	NO CURB AND GUTTER	STONE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0901

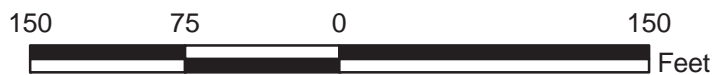
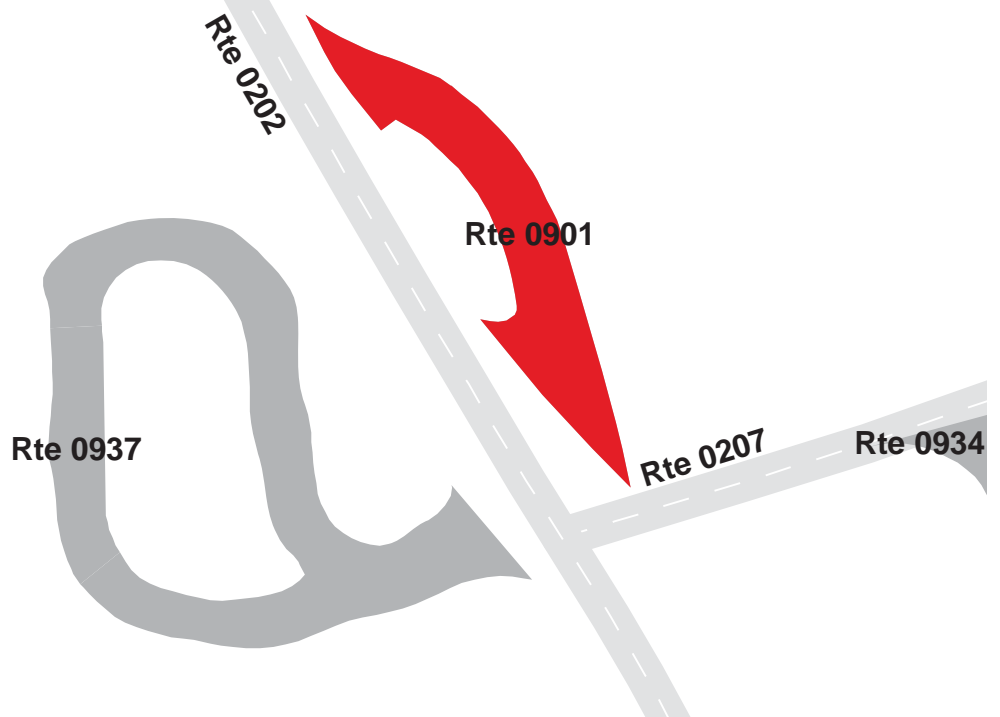
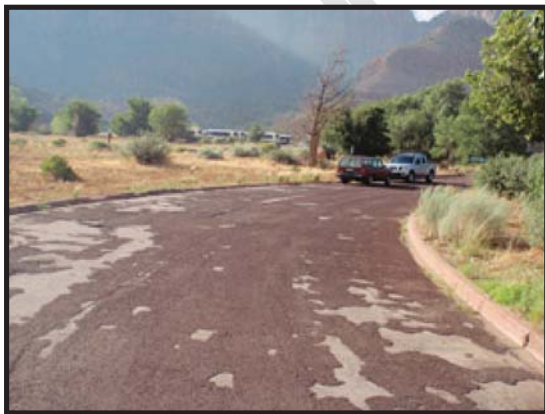
### EMPLOYEE VISITOR CENTER PARKING

FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.12 ON LEFT

TO ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.15 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901	PUBLIC	7/15/2009		5,804	0.10	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	0	CONCRETE CURB AND GUTTER	STONE CURB	POOR/45

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

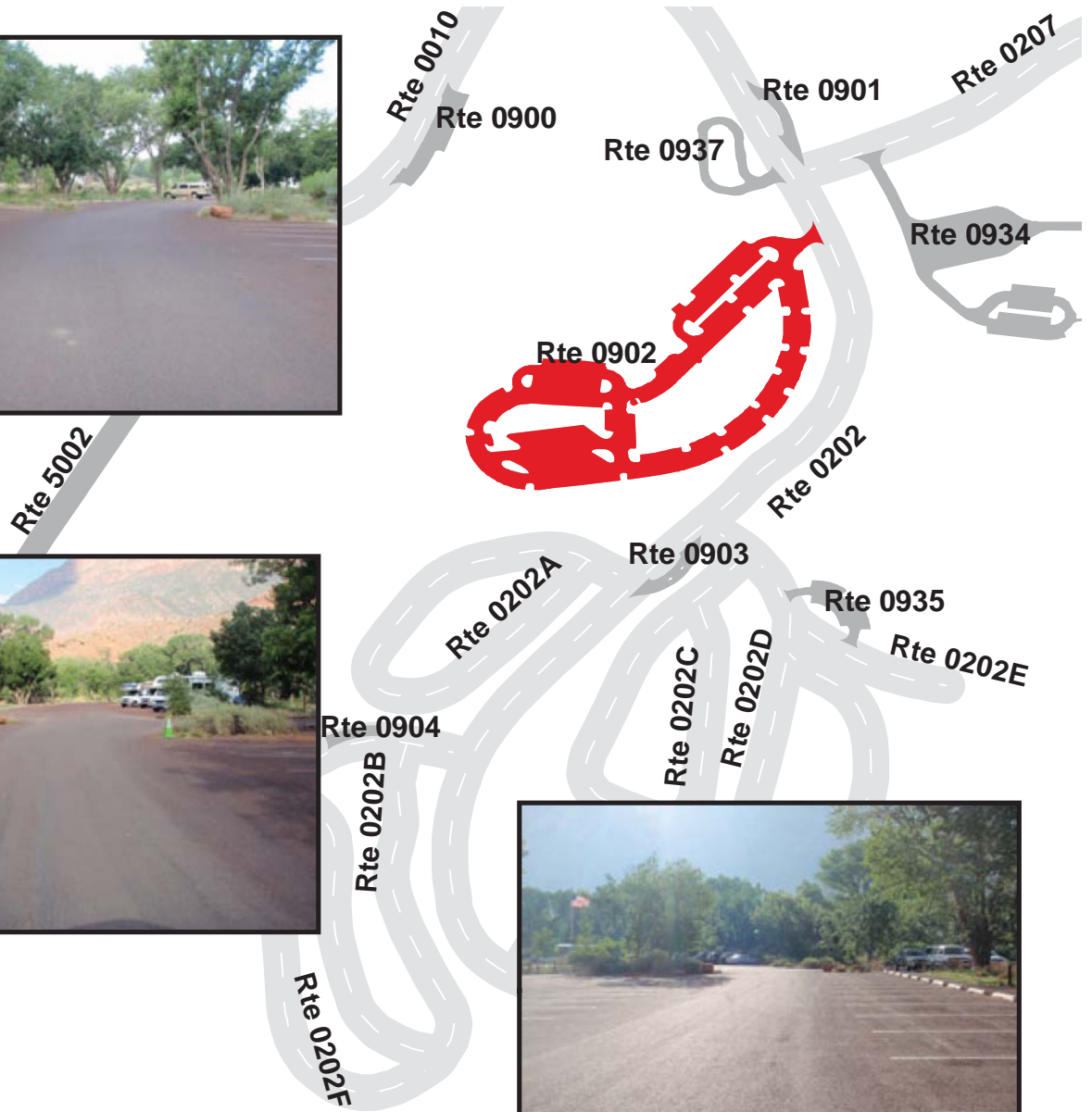
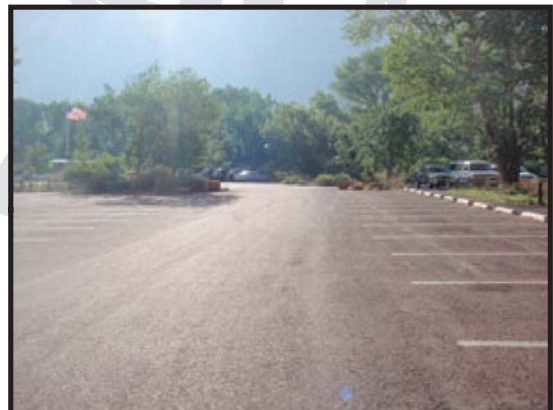
## Route 0902

### VISITOR CENTER PARKING

FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.20 ON RIGHT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902	PUBLIC	7/15/2009		158,255	2.73	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0903

### WATCHMAN CAMPGROUND DUMP STATION PARKING

FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.38 ON LEFT  
 TO INTERSECTION OF ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.41 ON LEFT  
 AND ROUTE 0202A (WATCHMAN CAMPGROUND LOOP A)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0903	PUBLIC	7/15/2009		6,218	0.11	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



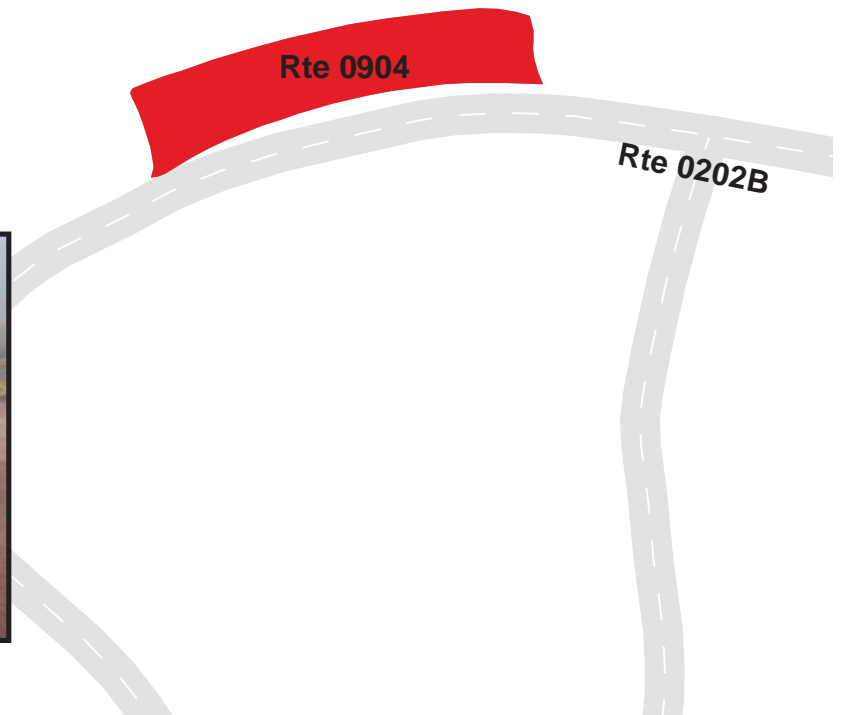
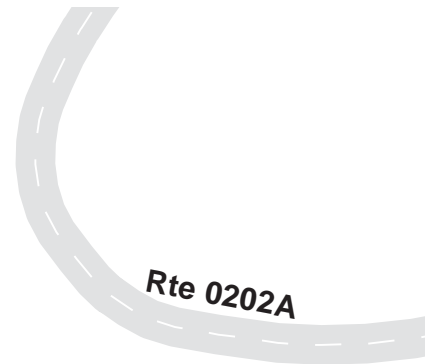
# ZION NATIONAL PARK

## Route 0904

WATCHMAN AMPHITHEATER LOOP B PARKING  
 ADJACENT TO ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B) ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0904	PUBLIC	7/15/2009		3,467	0.06	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

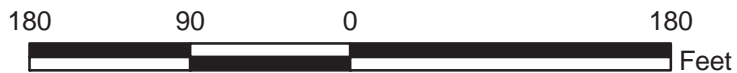
## Route 0905

### SOUTH CAMPGROUND DUMP STATION

ADJACENT TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905	PUBLIC	7/15/2009		6,454	0.11	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	POOR/45

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

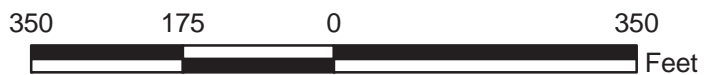
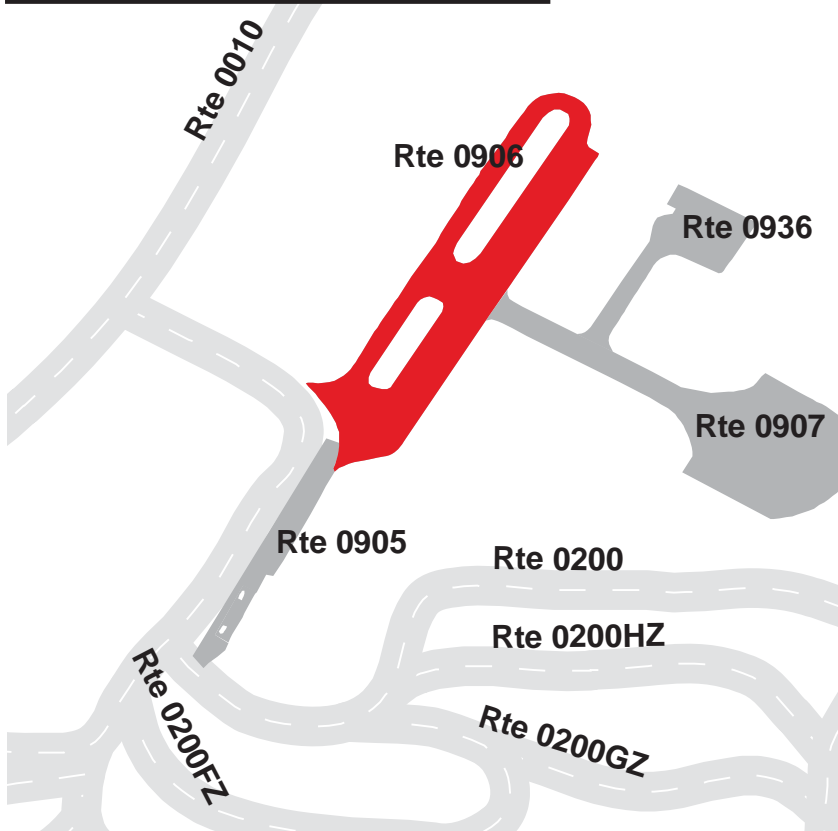
## Route 0906

### ZION NATURE CENTER PARKING

FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) ON LEFT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906	PUBLIC	7/15/2009		29,688	0.51	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	STONE CURB	POOR/45

\* Lane miles are based on 11' lane widths





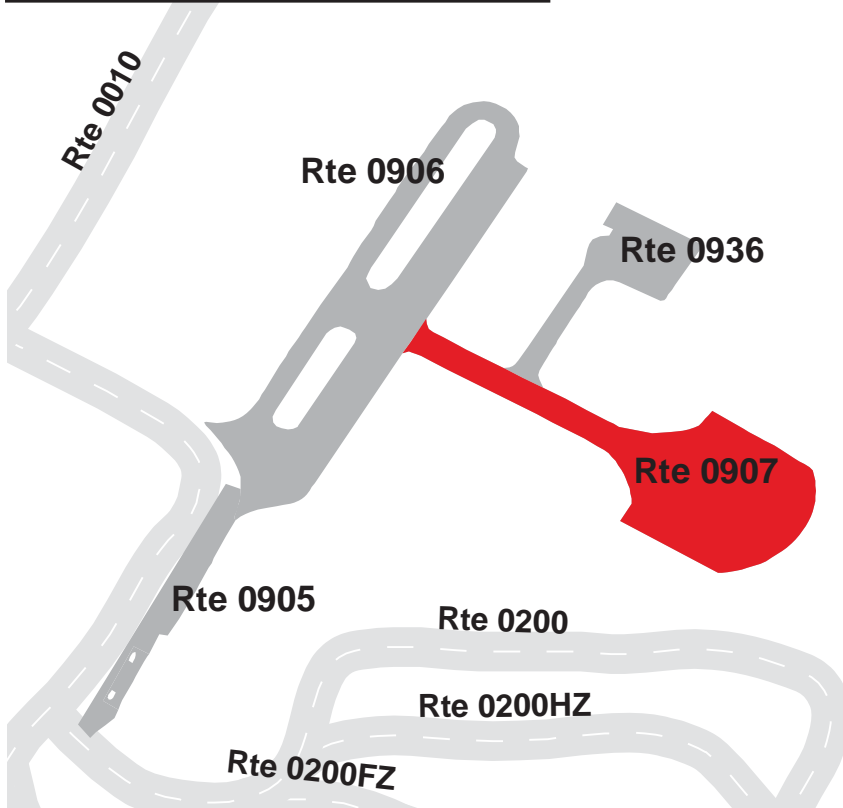
# ZION NATIONAL PARK

## Route 0907

SOUTH CAMPGROUND / AMPHITHEATER PARKING  
FROM ROUTE 0906 (ZION NATURE CENTER PARKING)  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907	PUBLIC	7/15/2009		24,775	0.43	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	0	NO CURB AND GUTTER	STONE CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

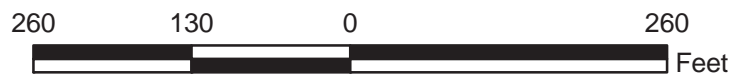
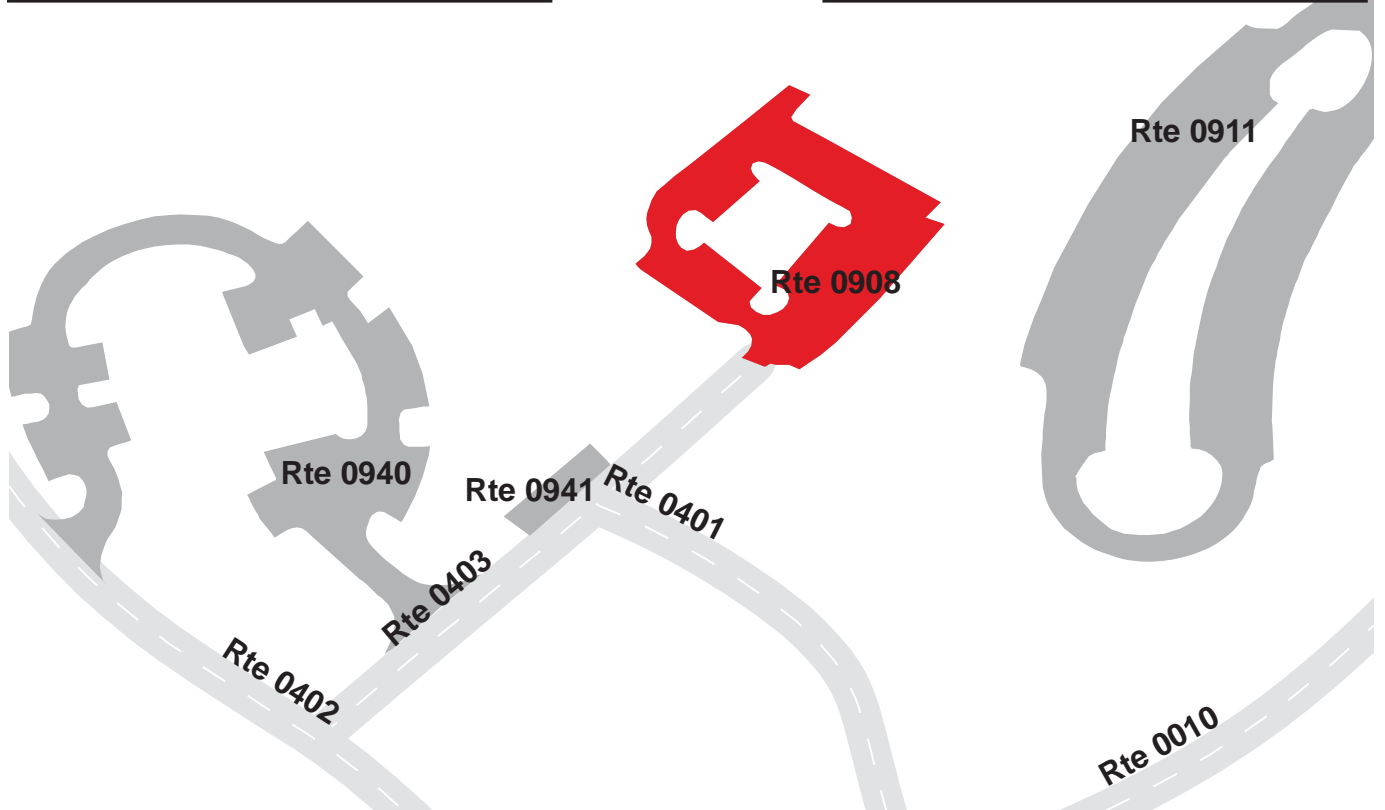
## Route 0908

### ADMINISTRATION PARKING

FROM END OF ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD)  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908	NONPUBLIC	7/14/2009		19,787	0.34	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	1	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



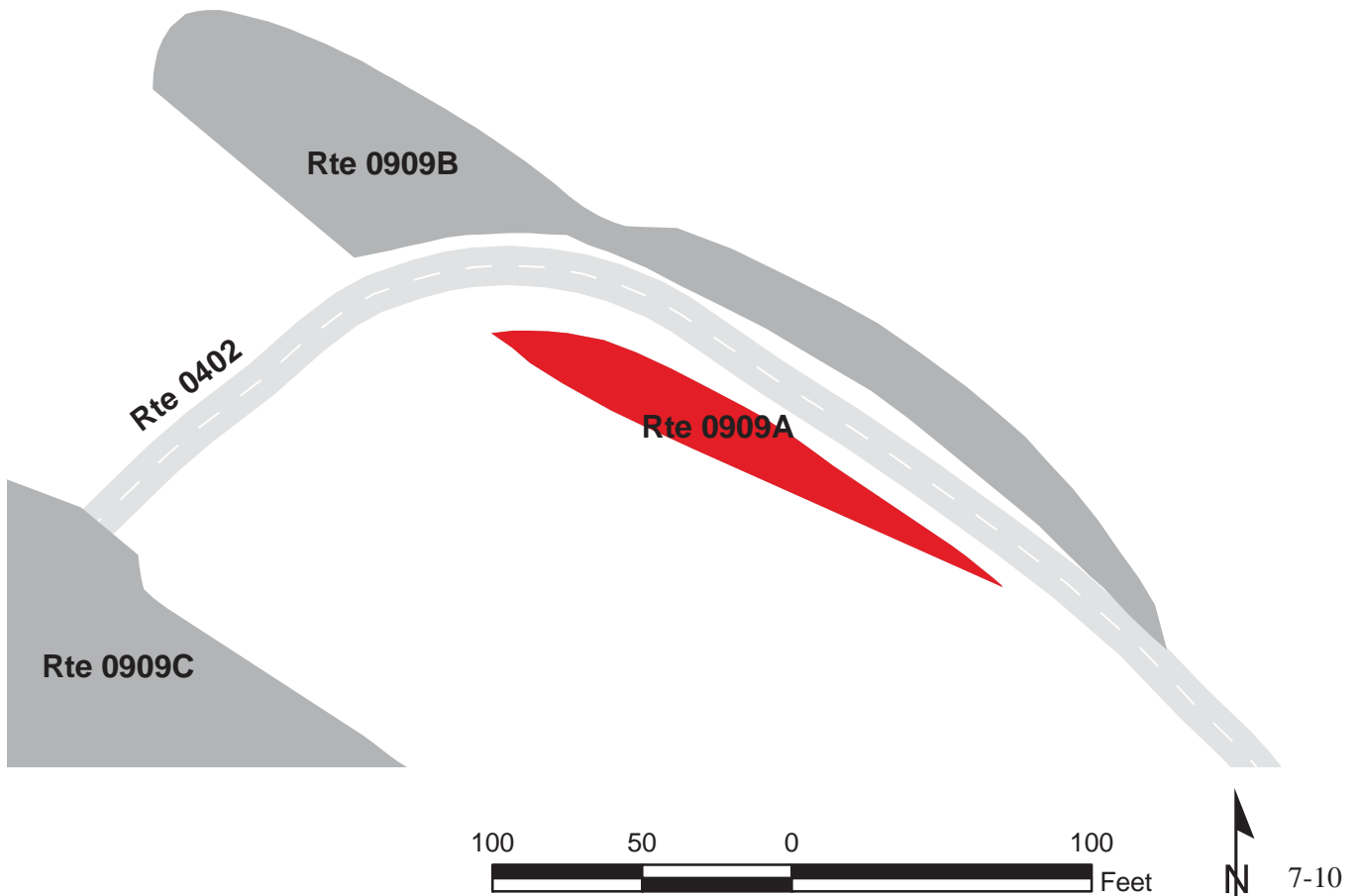
# ZION NATIONAL PARK

## Route 0909A

NORTH MAINTENANCE AREA PARKING A  
ADJACENT TO ROUTE 0402 (OAK CREEK ROAD) ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909A	NONPUBLIC	7/14/2009		2,080	0.04	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



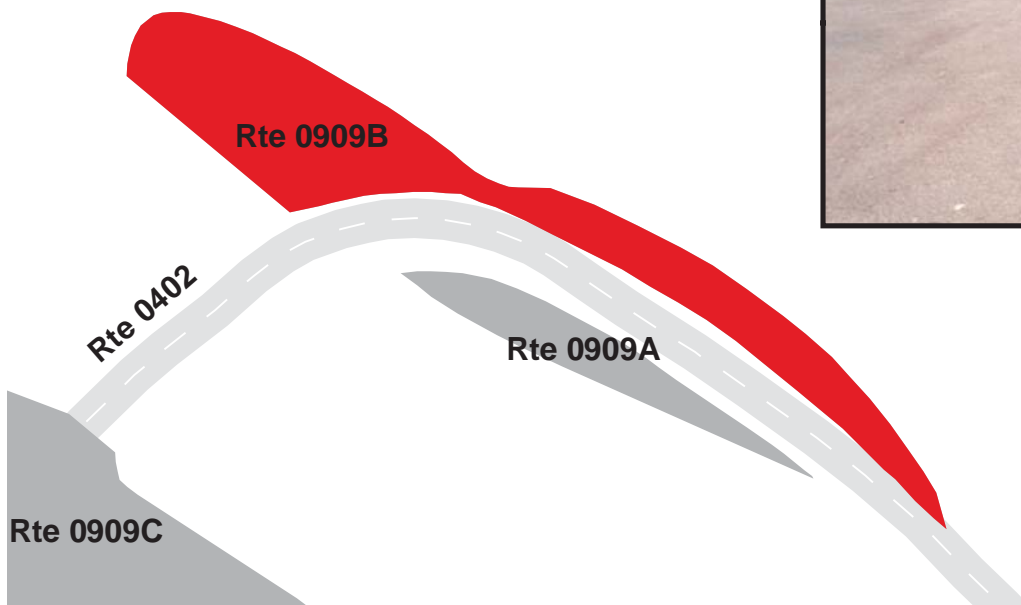
# ZION NATIONAL PARK

## Route 0909B

OAK CREEK MAINTENANCE OVERFLOW PARKING B  
 ADJACENT TO ROUTE 0402 (OAK CREEK ROAD) ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909B	NONPUBLIC	7/14/2009		8,125	0.14	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



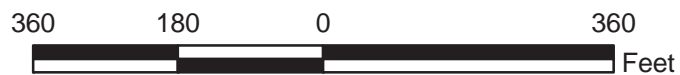
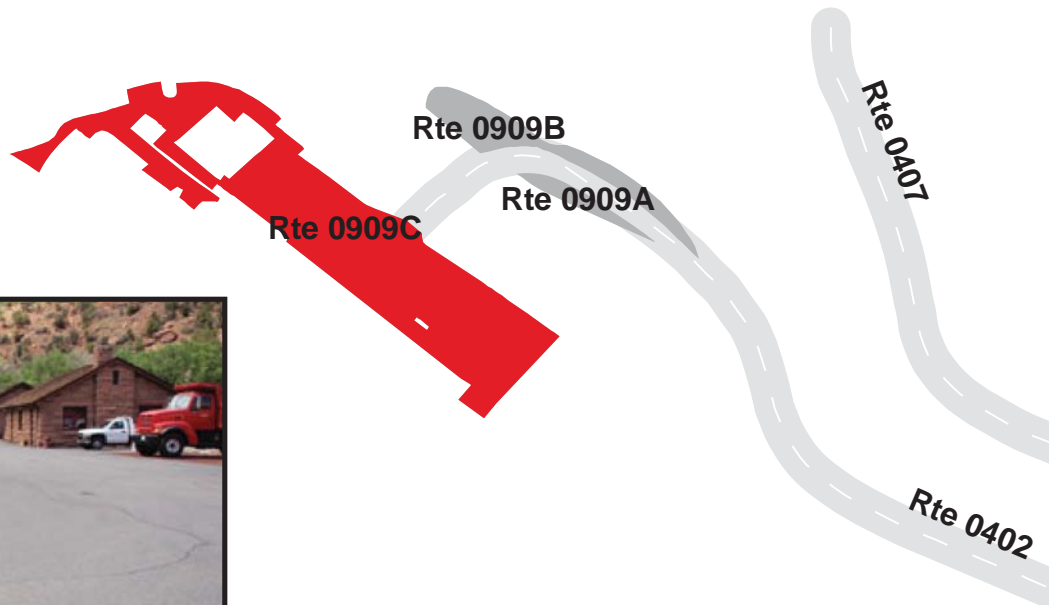
# ZION NATIONAL PARK

## Route 0909C

OAK CREEK MAINTENANCE OVERFLOW PARKING C  
FROM END OF ROUTE 0402 (OAK CREEK ROAD)  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909C	PUBLIC	7/14/2009		49,198	0.85	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	1	1	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

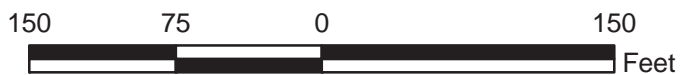
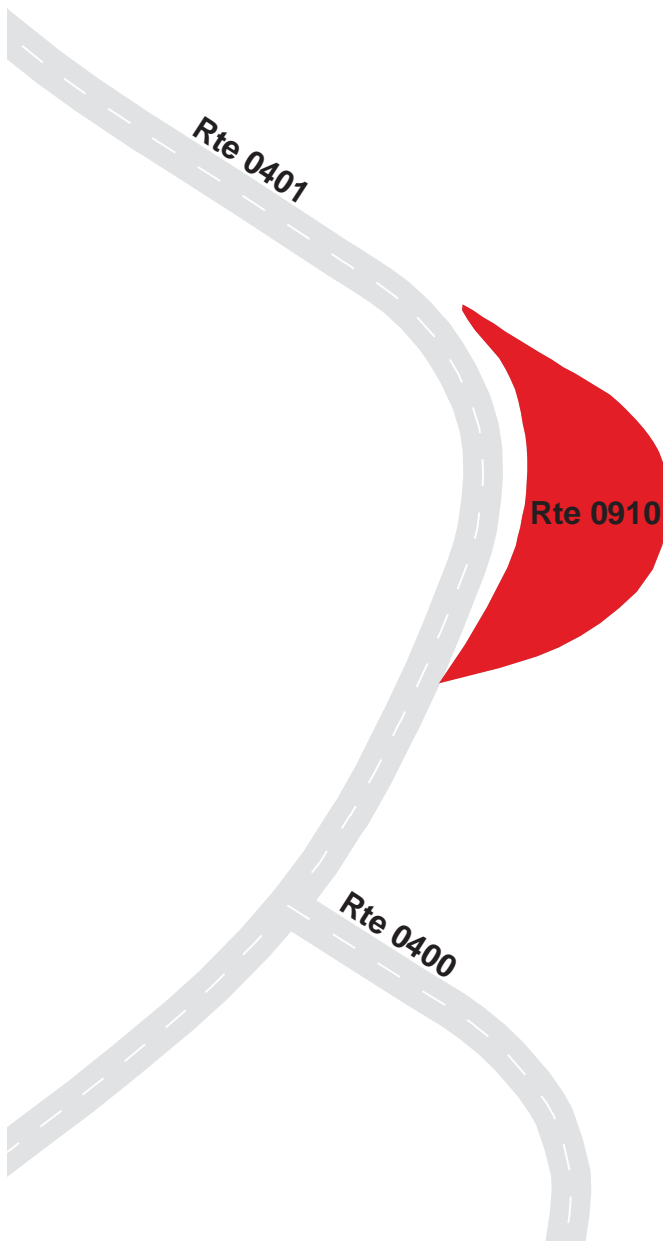
## Route 0910

WATCHMAN ADMINISTRATOR PARKING

ADJACENT TO ROUTE 0401 (WATCHMAN RESIDENCE ROAD) AT MP 0.27 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0910	NONPUBLIC	7/14/2009		8,260	0.14	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0911

### MUSEUM PARKING AREA

FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.93 ON LEFT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911	PUBLIC	7/14/2009		50,842	0.88	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	4	0	2	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

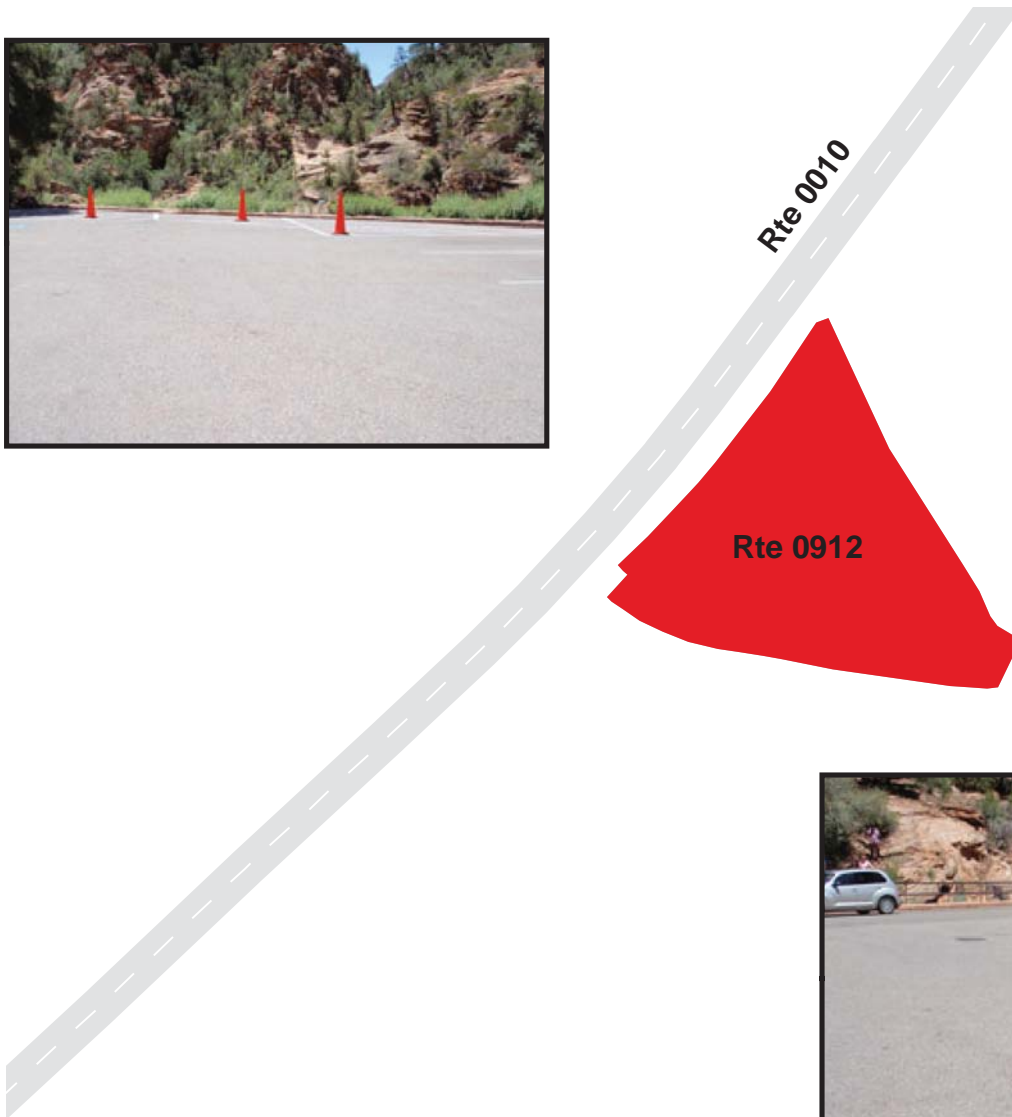
## Route 0912

### TUNNEL EAST PARKING CANYON OVERLOOK

ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 6.20 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0912	PUBLIC	7/14/2009		5,305	0.09	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	STONE CURB	FAIR/73

\* Lane miles are based on 11' lane widths





# ZION NATIONAL PARK

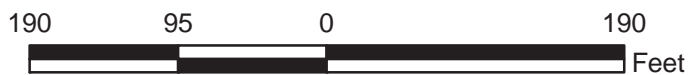
## Route 0913

### CHECKERBOARD MESA VIEWPOINT PARKING

ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 11.28 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0913	PUBLIC	7/14/2009		9,154	0.16	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

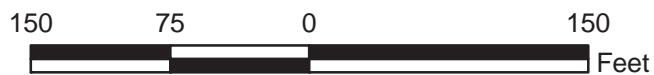
## Route 0915

### COURT OF THE PATRIARCHS PARKING

FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 1.64 ON RIGHT  
TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 1.67 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0915	PUBLIC	7/14/2009		6,097	0.11	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

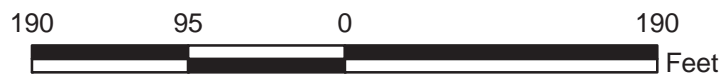
## Route 0916

### WYLIE PARKING

FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.31 ON RIGHT  
TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.36 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0916	PUBLIC	7/14/2009		6,599	0.11	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

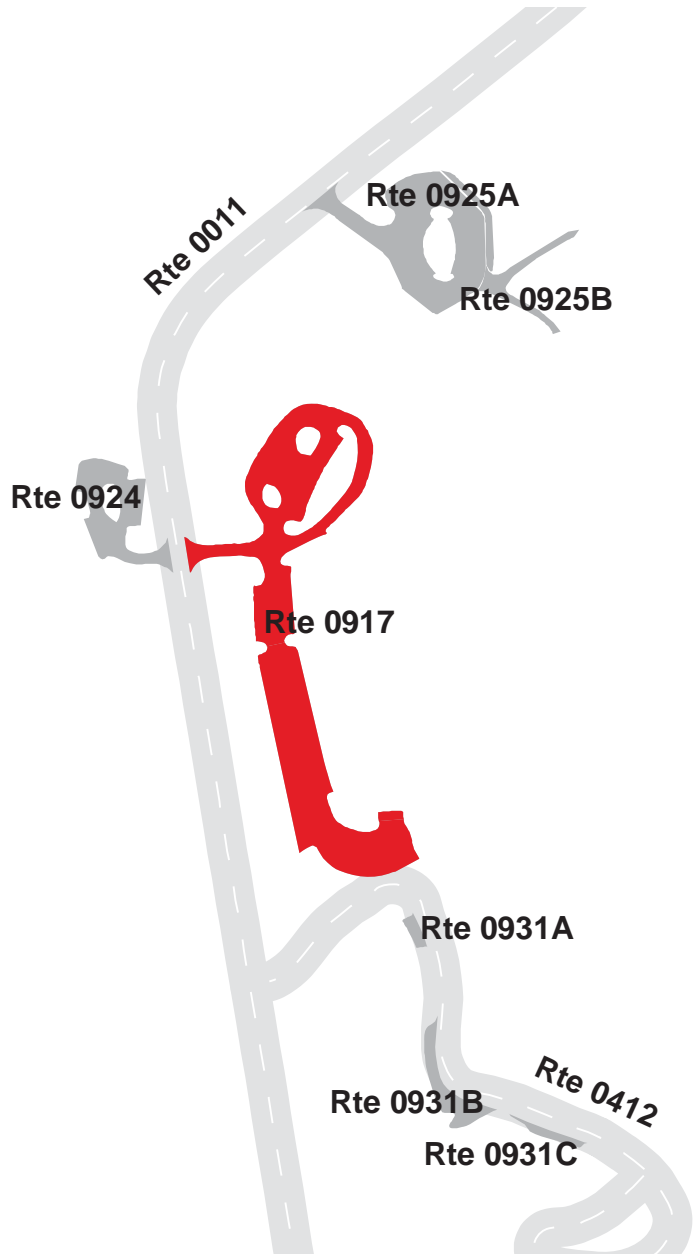
## Route 0917

### ZION LODGE CABIN PARKING

FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) ON RIGHT AND  
ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) ON LEFT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0917	PUBLIC	7/14/2009		92,085	1.59	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
1	1	1	3	NO CURB AND GUTTER	STONE CURB	POOR/45

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

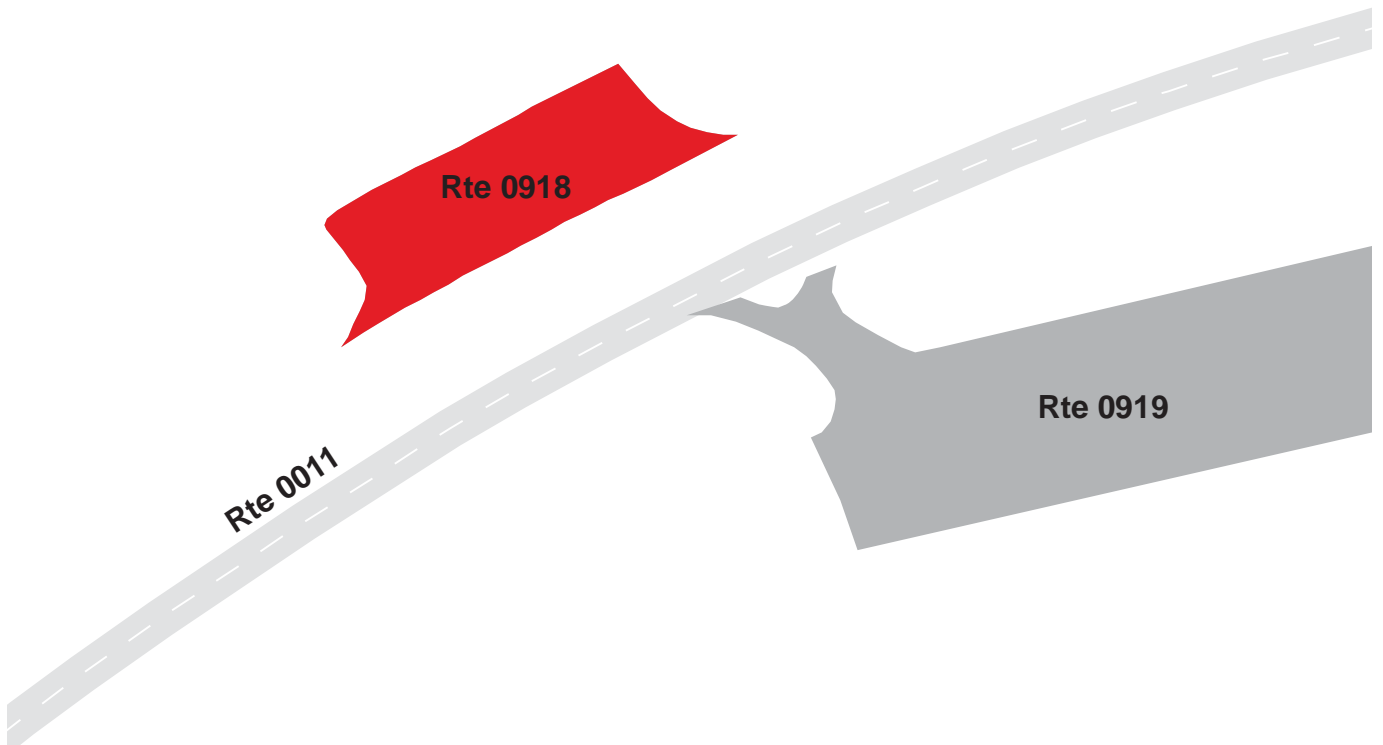
## Route 0918

### WEST RIM TRAILHEAD PARKING

ADJACENT TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 3.37 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0918	PUBLIC	7/14/2009		4,097	0.07	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	STONE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

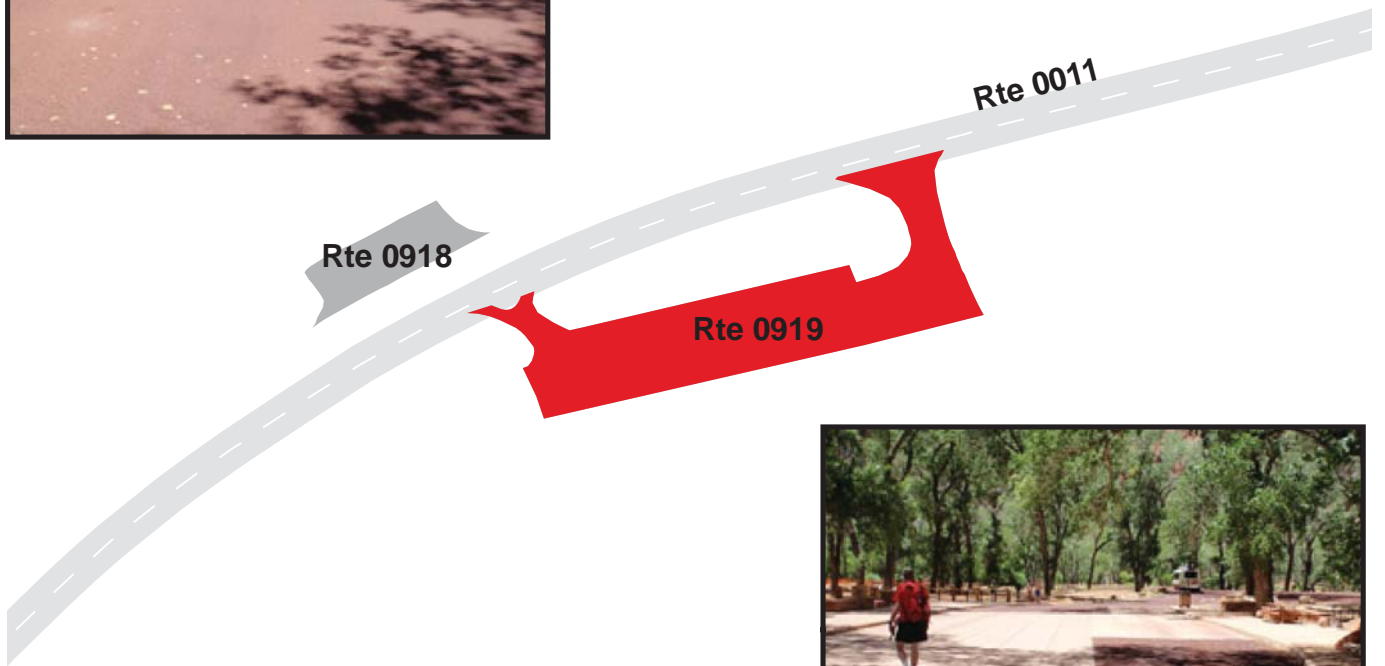
## Route 0919

### GROTTO PICNIC PARKING

FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 3.37 ON RIGHT  
TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 3.44 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0919	PUBLIC	7/14/2009		19,996	0.34	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

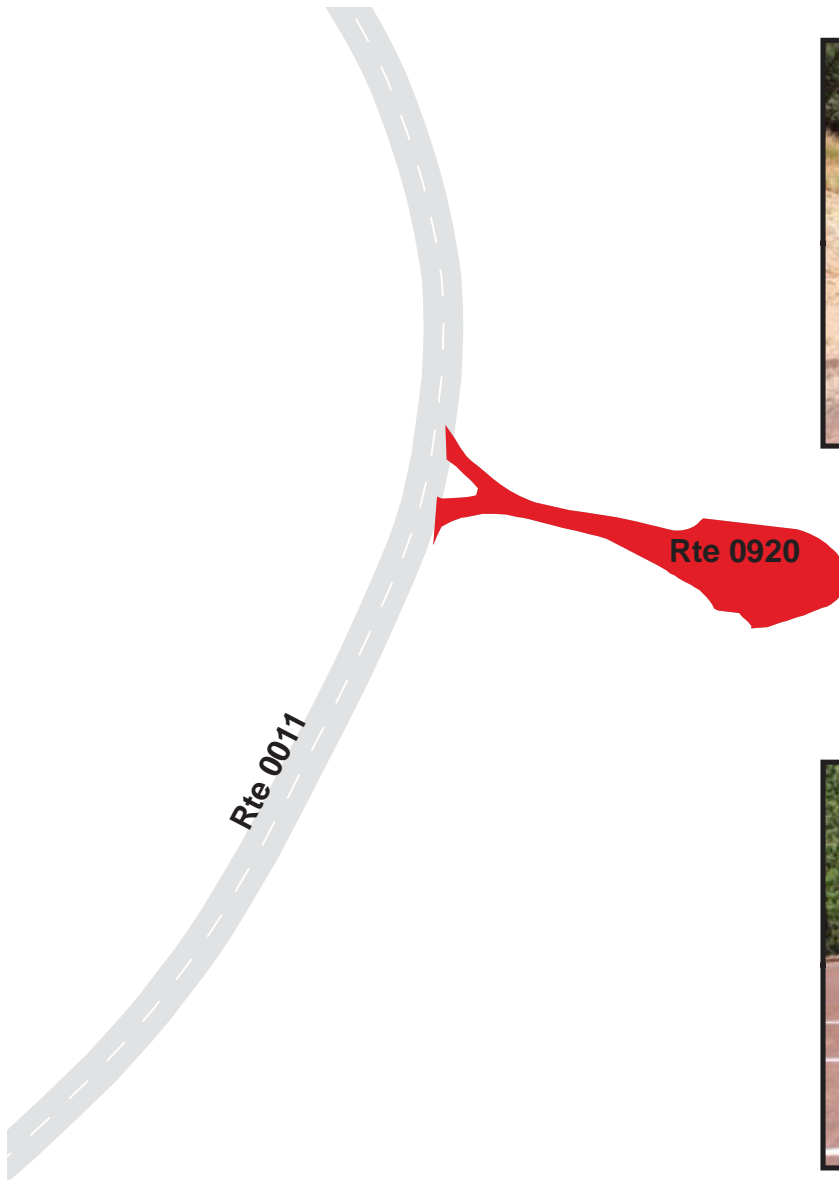
## Route 0920

### WEeping ROCK PARKING

FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) ON RIGHT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0920	PUBLIC	7/14/2009		18,109	0.31	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	STONE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0921

THE GREAT WHITE THRONE PARKING  
 FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE)  
 TO ROUTE 0011 (ZION SCENIC CANYON DRIVE)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0921	PUBLIC	7/14/2009		5,740	0.10	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	STONE CURB	GOOD/90

\* Lane miles are based on 11' lane widths





# ZION NATIONAL PARK

## Route 0922

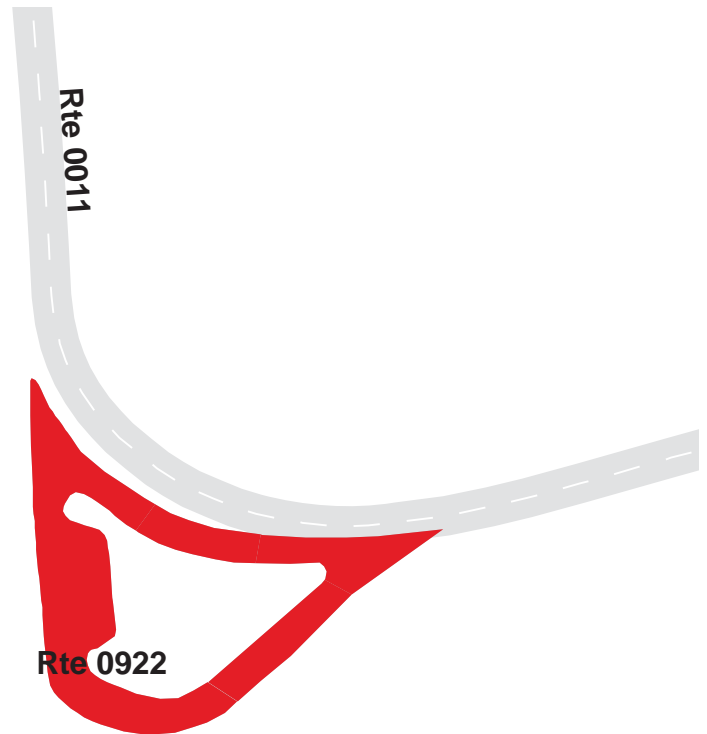
### BIG BEND BUS AND TRAILER PARKING

FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 5.09 ON LEFT

TO ROUTE 0011 (ZION SCENIC CANYON DRIVE) ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0922	PUBLIC	7/14/2009		14,266	0.25	CO
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

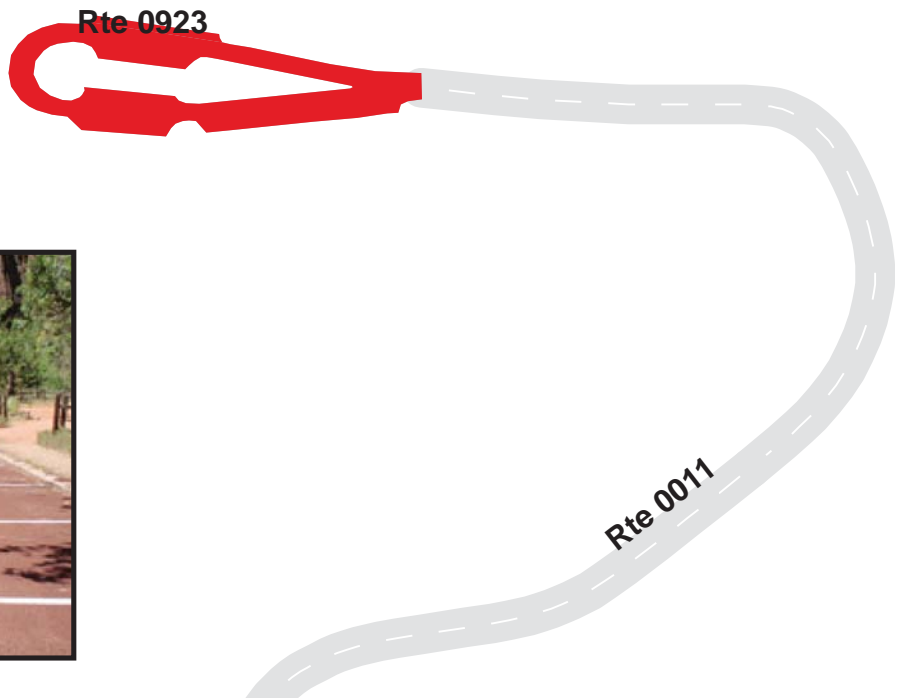
## Route 0923

### TEMPLE OF SINAWAVA PARKING

FROM END OF ROUTE 0011 (ZION SCENIC CANYON DRIVE)  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0923	PUBLIC	7/14/2009		38,722	0.67	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	0	0	NO CURB AND GUTTER	STONE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



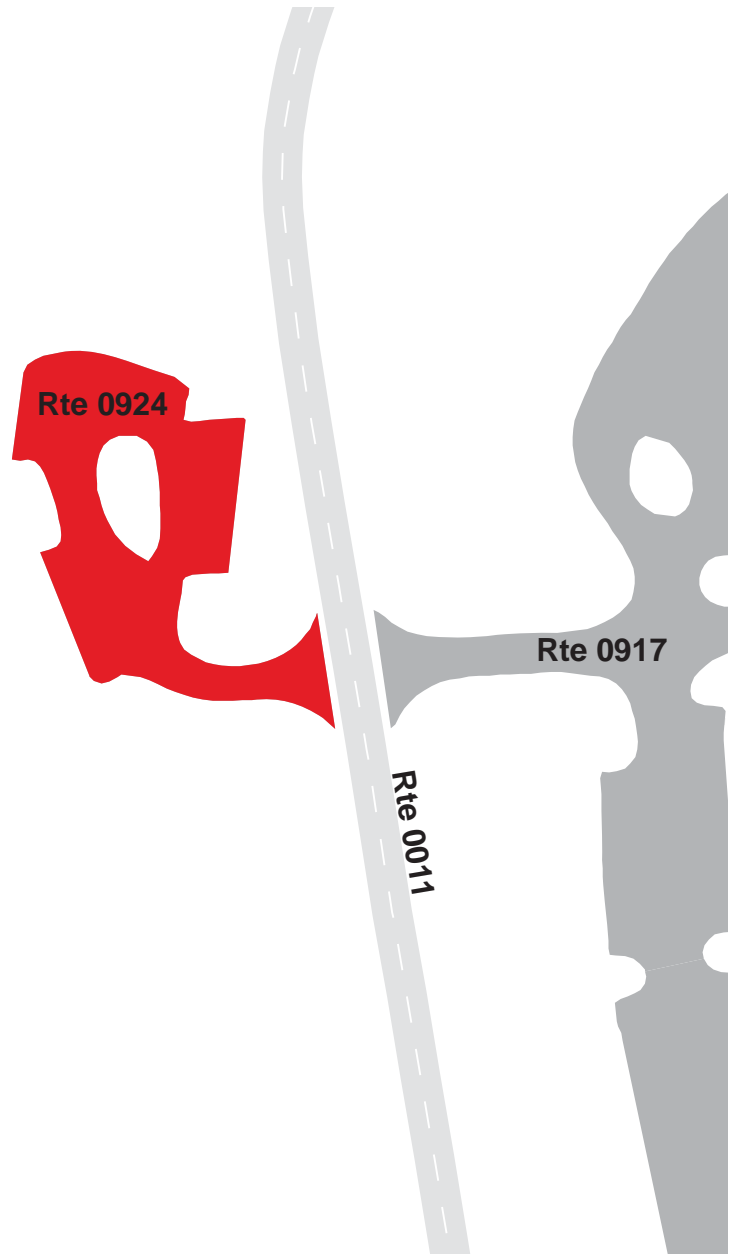
# ZION NATIONAL PARK

## Route 0924

EMERALD POOLS HORSE CORRAL PARKING  
FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE)  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0924	PUBLIC	7/14/2009		16,933	0.29	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

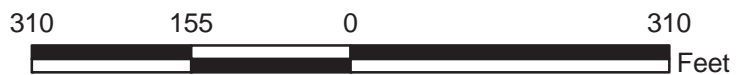
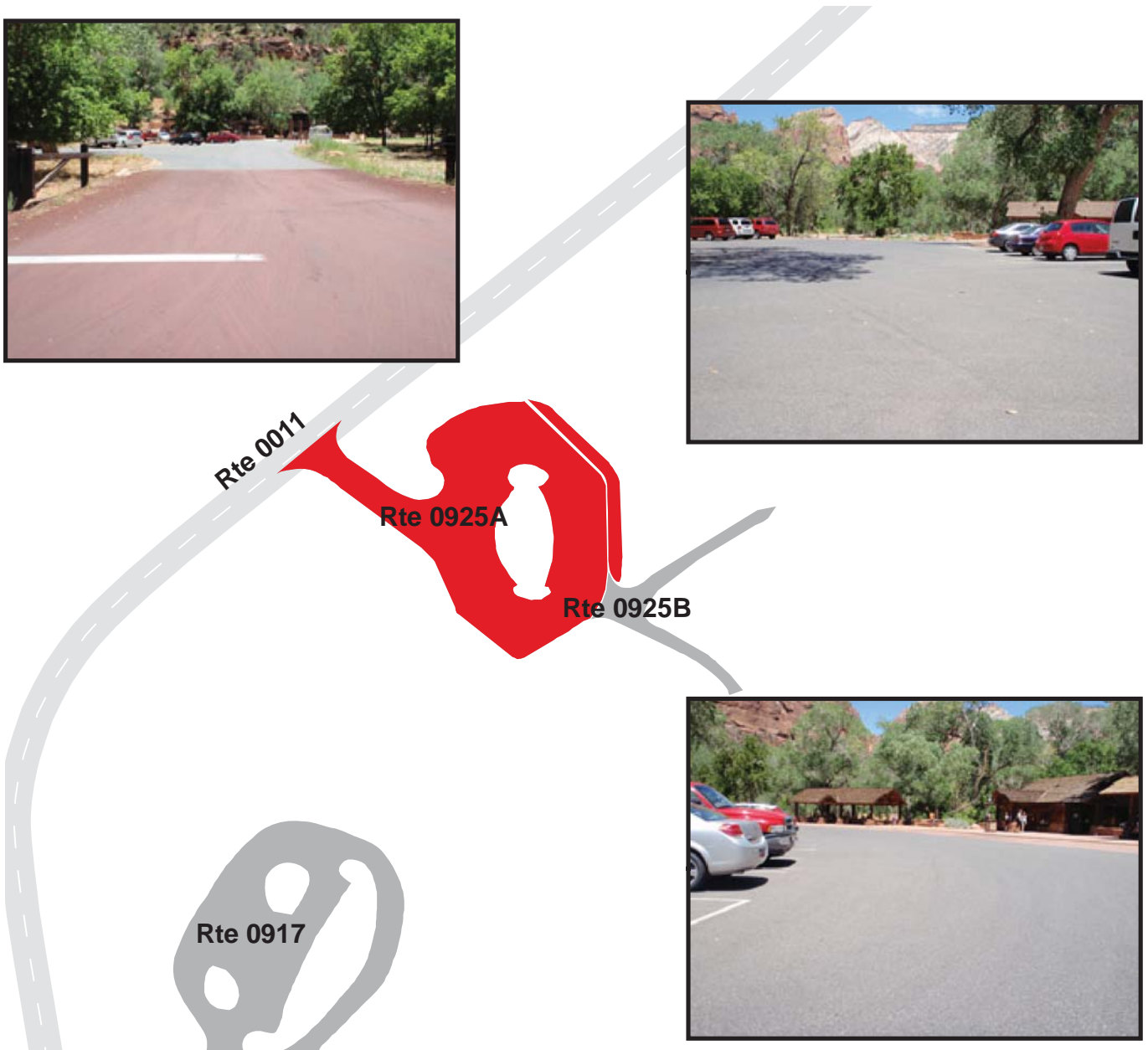
## Route 0925A

### ZION LODGE VISITOR PARKING

FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.81 ON RIGHT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0925A	PUBLIC	7/14/2009		39,786	0.69	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	1	0	CONCRETE CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



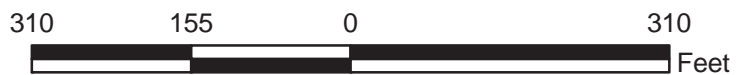
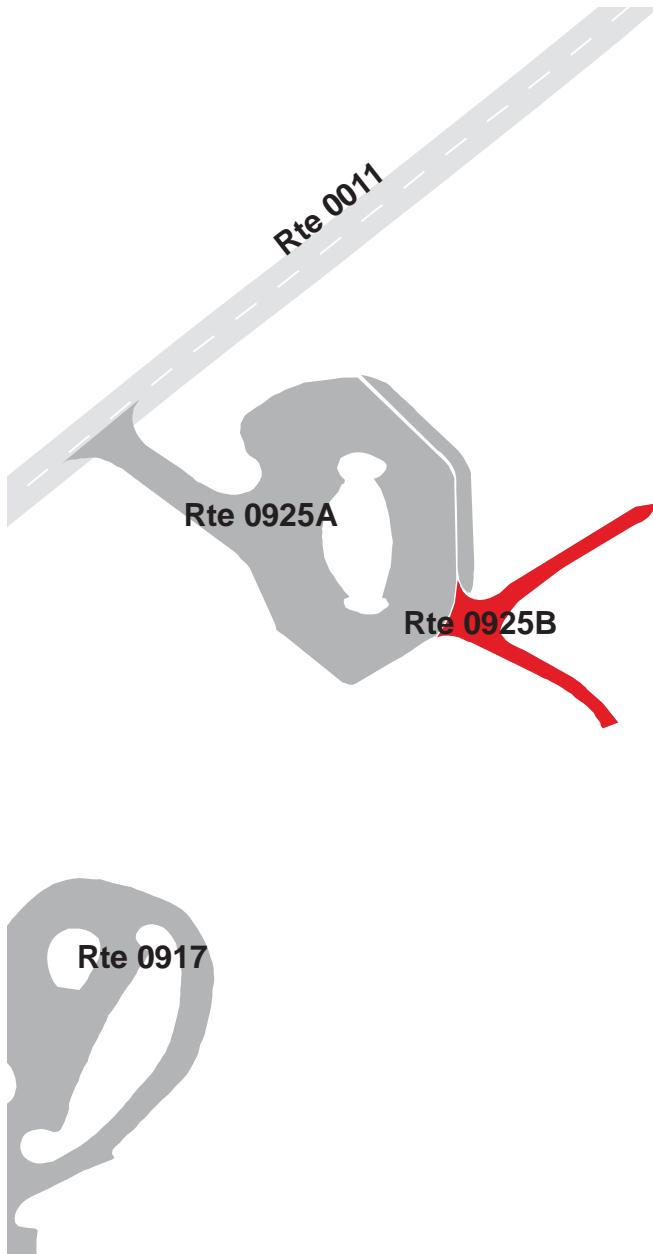
# ZION NATIONAL PARK

## Route 0925B

ZION LODGE MAINTENANCE PARKING  
FROM ROUTE 0925A (ZION LODGE VISITOR PARKING)  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0925B	NONPUBLIC	7/14/2009		5,521	0.10	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0926

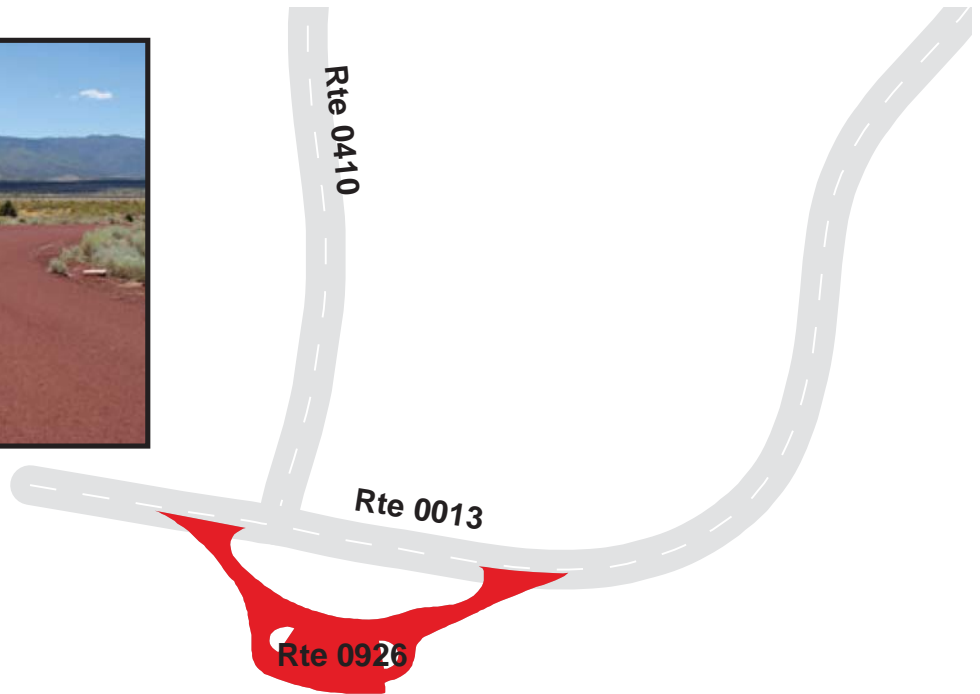
### KOLOB VISITORS CENTER PARKING

FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 0.05 ON RIGHT

TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 0.13 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0926	PUBLIC	7/15/2009		40,635	0.70	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	2	0	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0927

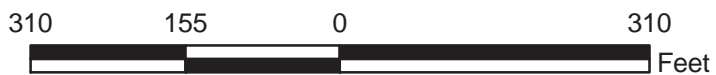
### TAYLOR CREEK TRAILHEAD PARKING

FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 2.02 ON LEFT

TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 2.07 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0927	PUBLIC	7/15/2009		15,743	0.27	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	0	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

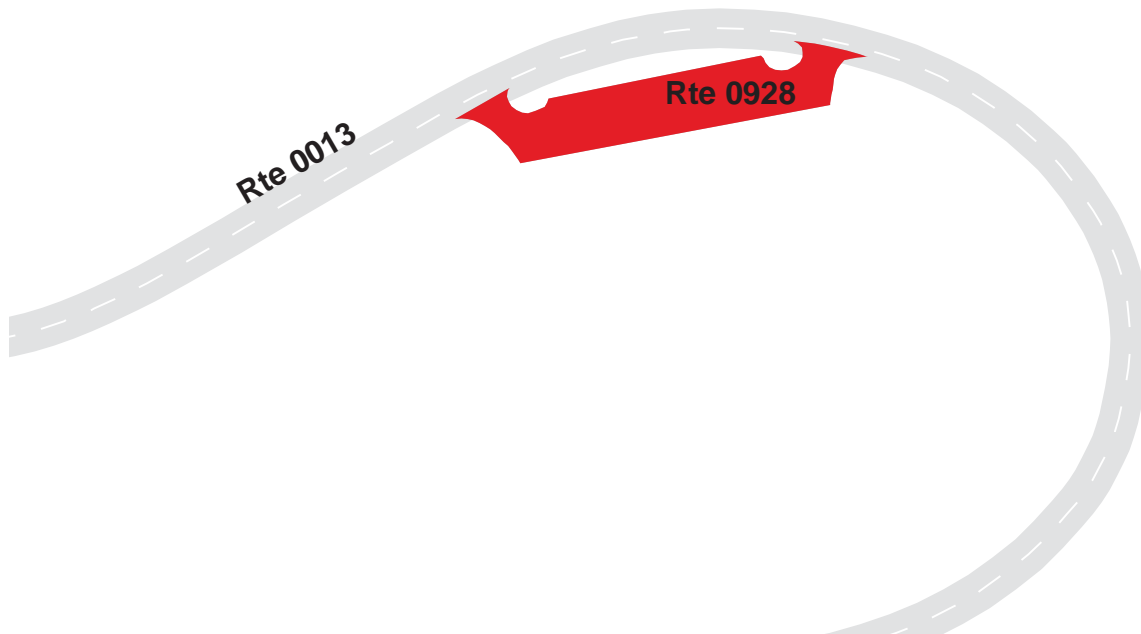
## Route 0928

### SOUTH FORK PARKING AREA

FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 3.24 ON RIGHT  
TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 3.29 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0928	PUBLIC	7/15/2009		15,732	0.27	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths





# ZION NATIONAL PARK

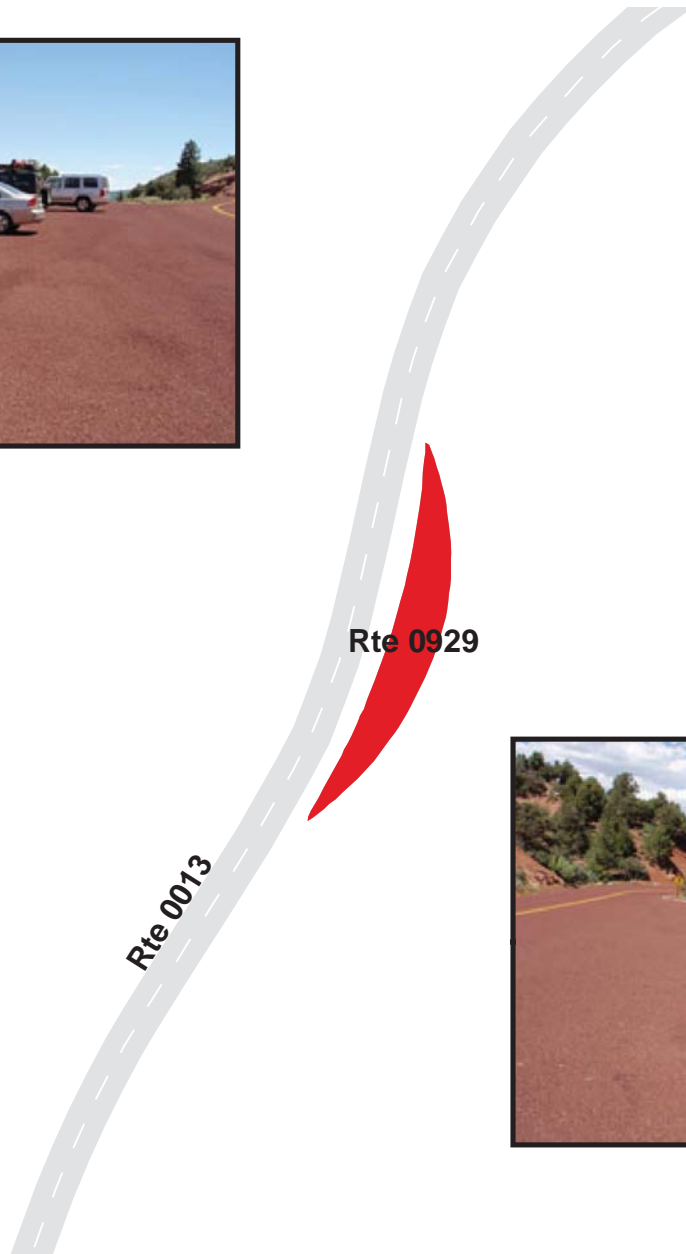
## Route 0929

### LEE PASS TRAILHEAD PARKING

ADJACENT TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 3.91 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0929	PUBLIC	7/15/2009		4,878	0.08	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	GOOD/90

\* Lane miles are based on 11' lane widths



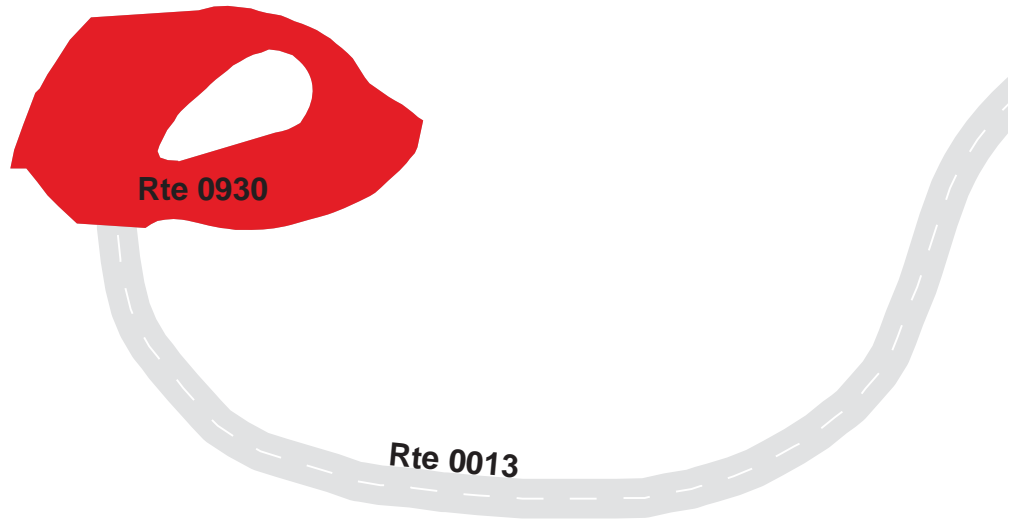
# ZION NATIONAL PARK

## Route 0930

KOLOB CANYON OVERLOOK PARKING  
 FROM END OF ROUTE 0013 (KOLOB CANYON ROAD)  
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0930	PUBLIC	7/14/2009		27,604	0.48	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	2	0	0	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

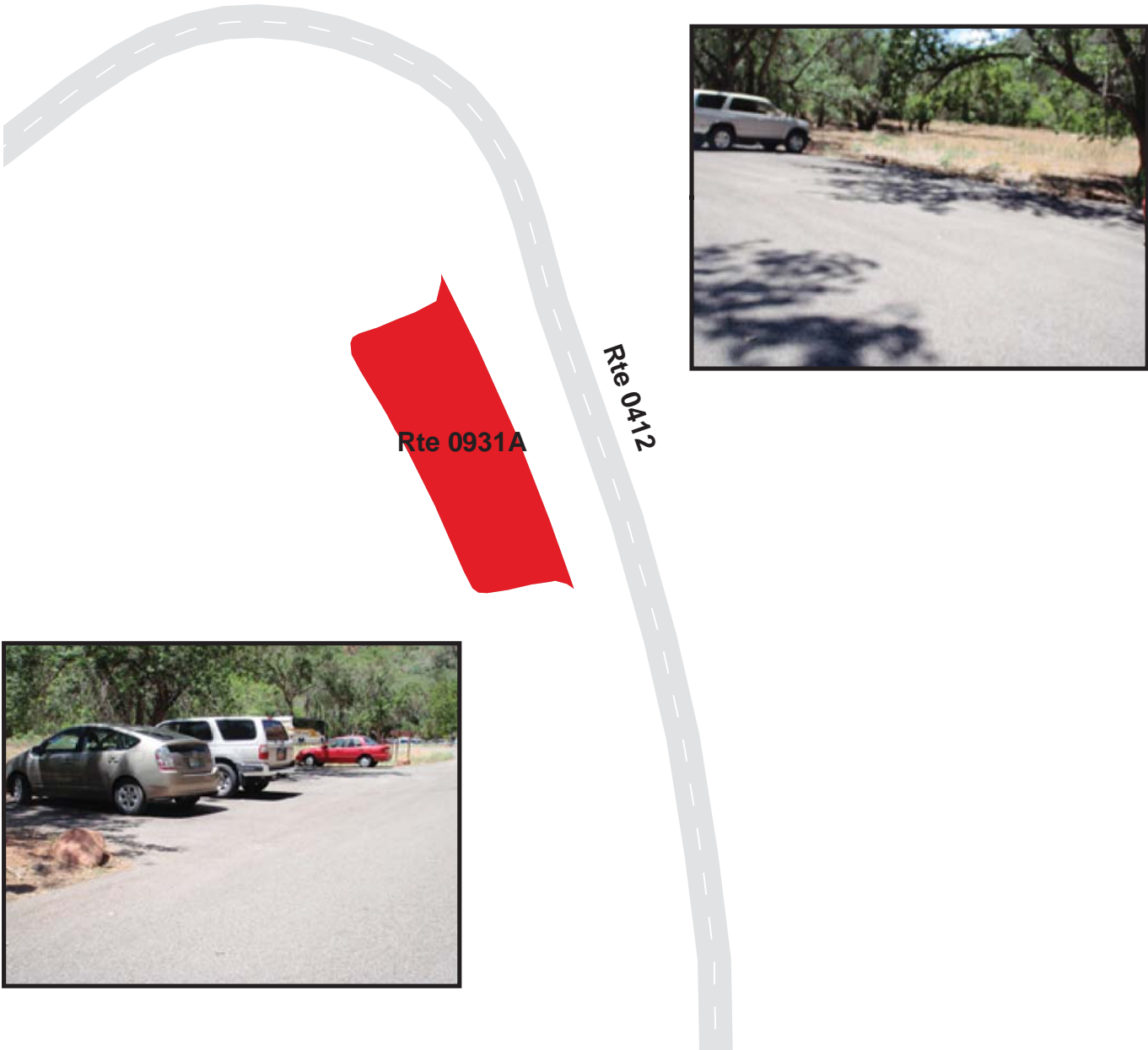
## Route 0931A

### CONCESSIONAIRE / DORM PARKING A

ADJACENT TO ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) AT MP 0.08 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931A	NONPUBLIC	7/14/2009		1,363	0.02	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

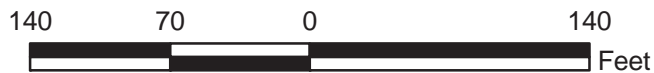
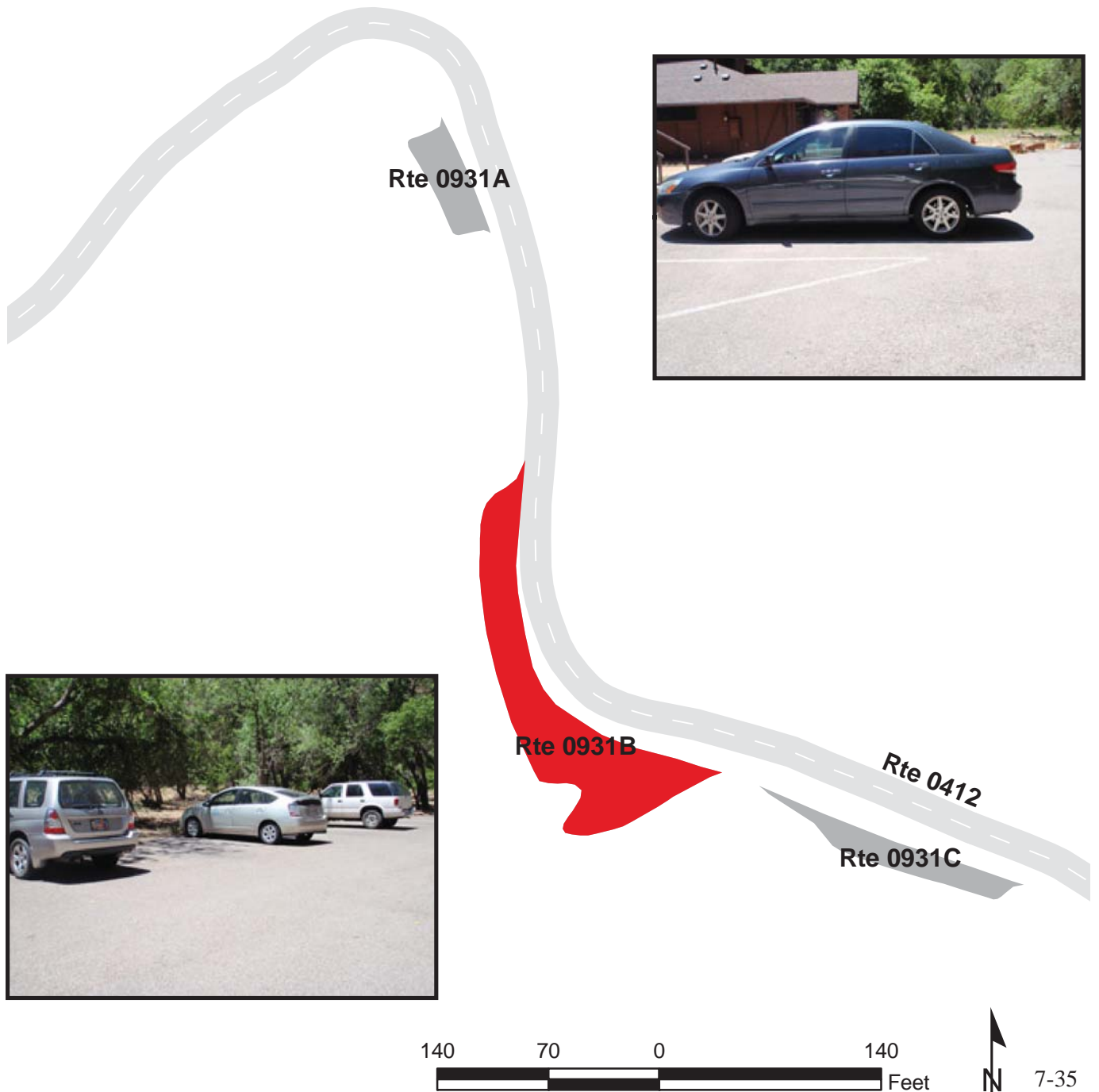
## Route 0931B

### CONCESSIONAIRE / DORM PARKING B

ADJACENT TO ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) AT MP 0.15 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931B	NONPUBLIC	7/14/2009		6,743	0.12	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

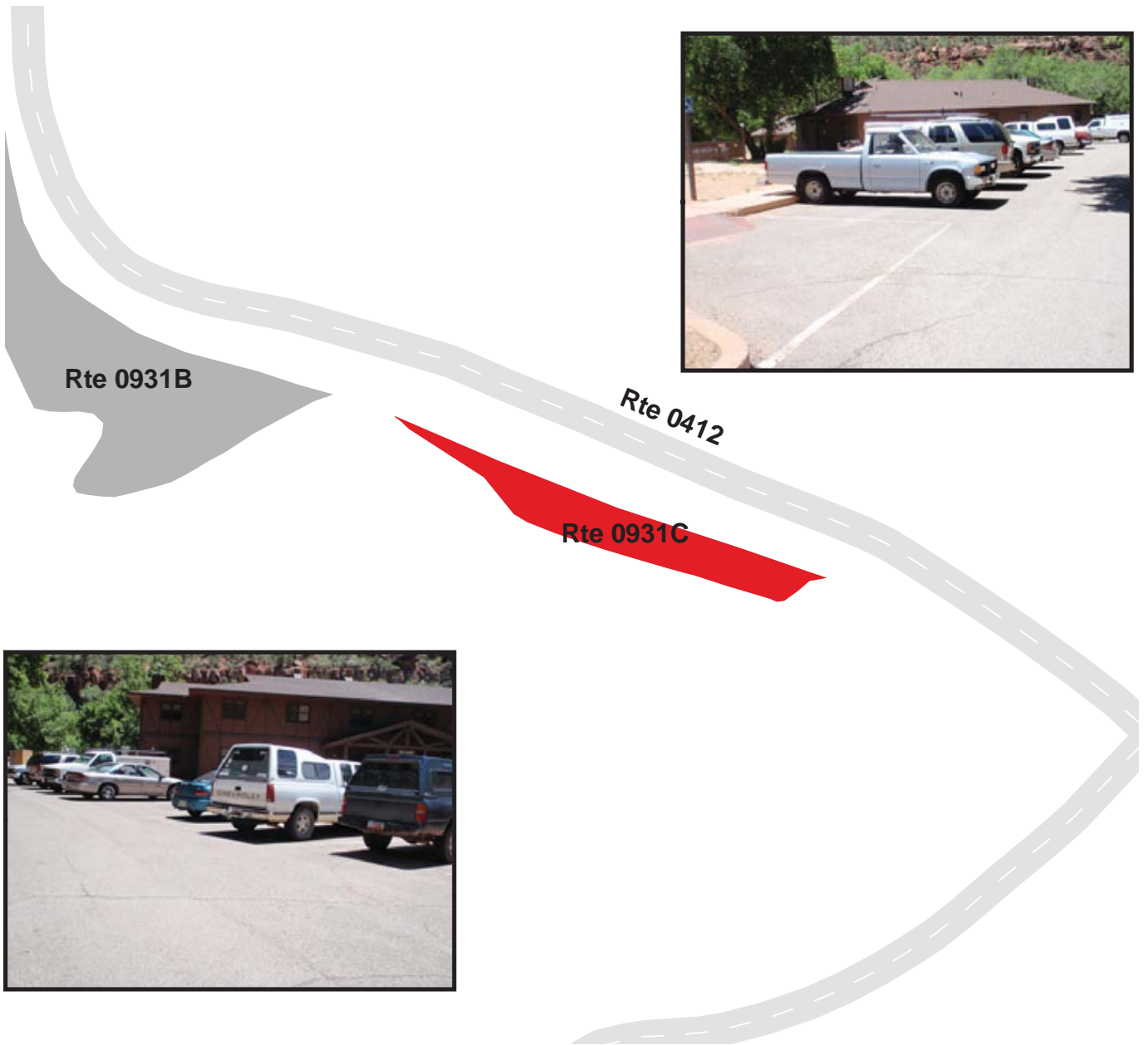
## Route 0931C

### CONCESSIONAIRE / DORM PARKING C

ADJACENT TO ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD) AT MP 0.19 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931C	NONPUBLIC	7/14/2009		1,780	0.03	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0932

### CANYON OVERLOOK PARKING

ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 6.30 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0932	PUBLIC	7/14/2009		2,652	0.05	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	STONE CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

## Route 0933A

### PINE CREEK OVERLOOK PARKING A

ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.63 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0933A	PUBLIC	7/14/2009		1,283	0.02	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

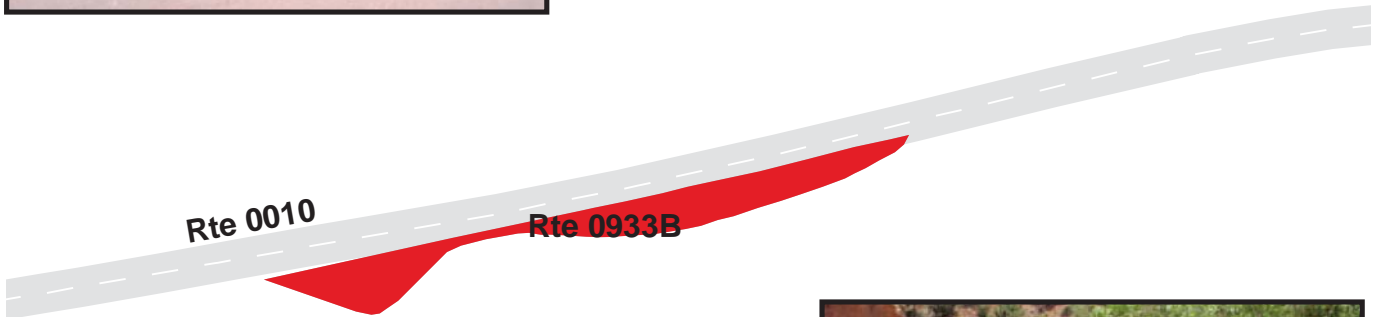
## Route 0933B

### PINE CREEK OVERLOOK PARKING B

ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.71 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0933B	PUBLIC	7/14/2009		3,076	0.05	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths





# ZION NATIONAL PARK

## Route 0934

### PTI FACILITY PARKING

FROM ROUTE 0207 (WATCHMAN TRAIL ROAD) AT MP 0.03 ON RIGHT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0934	NONPUBLIC	7/14/2009		112,448	1.94	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
1	1	0	2	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

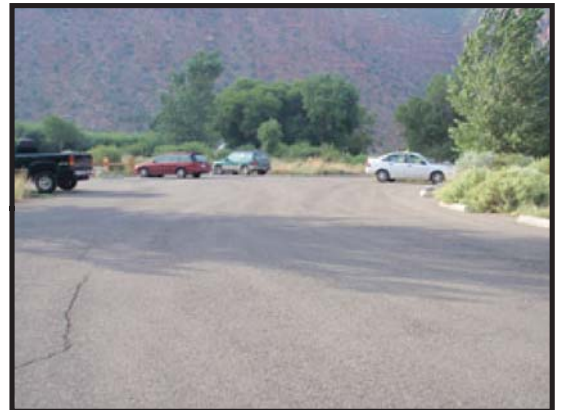
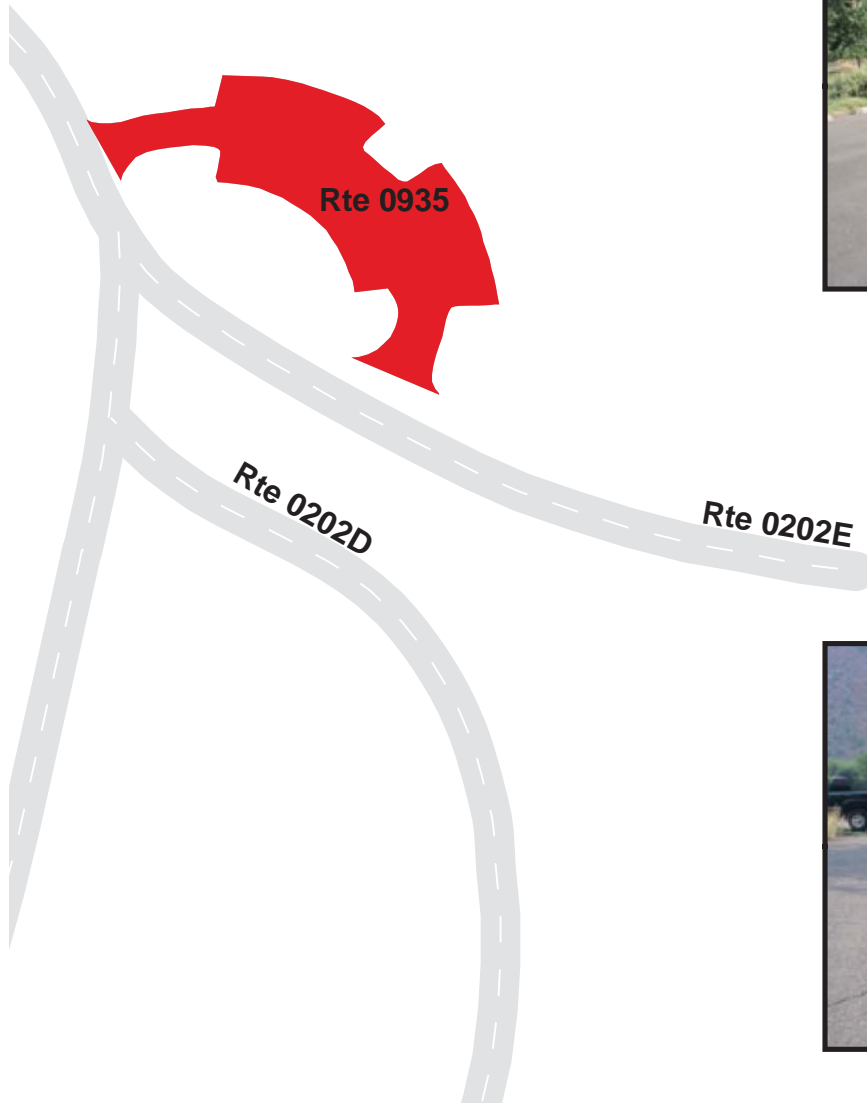
## Route 0935

### WATCHMAN CAMPGROUND WALK-IN PARKING

FROM ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS) AT MP 0.04 ON LEFT  
TO ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS) AT MP 0.09 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0935	PUBLIC	7/15/2009		11,000	0.19	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

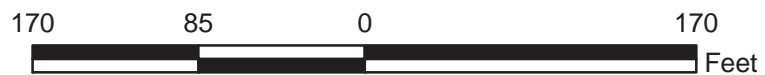
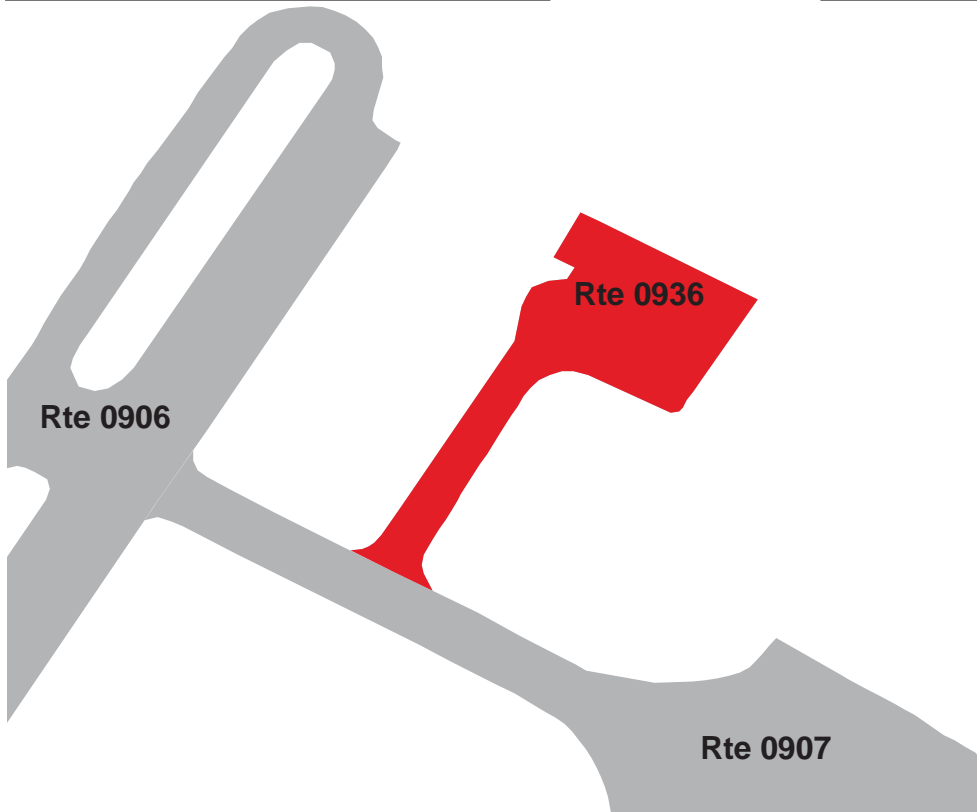
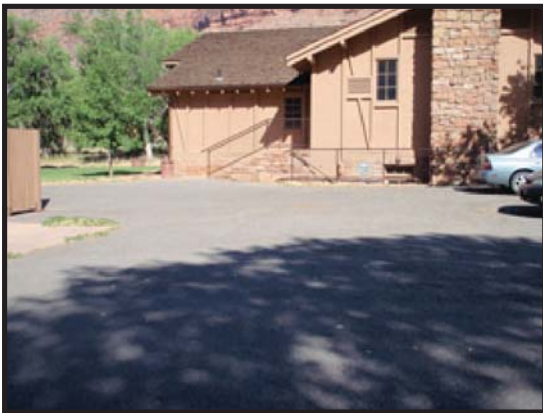
## Route 0936

### ZION NATURE CENTER REAR PARKING

FROM ROUTE 0907 (SOUTH CAMPGROUND / AMPHITHEATER PARKING)  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0936	PUBLIC	7/15/2009		8,079	0.14	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	1	NO CURB AND GUTTER	CONCRETE CURB	POOR/45

\* Lane miles are based on 11' lane widths



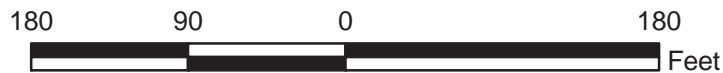
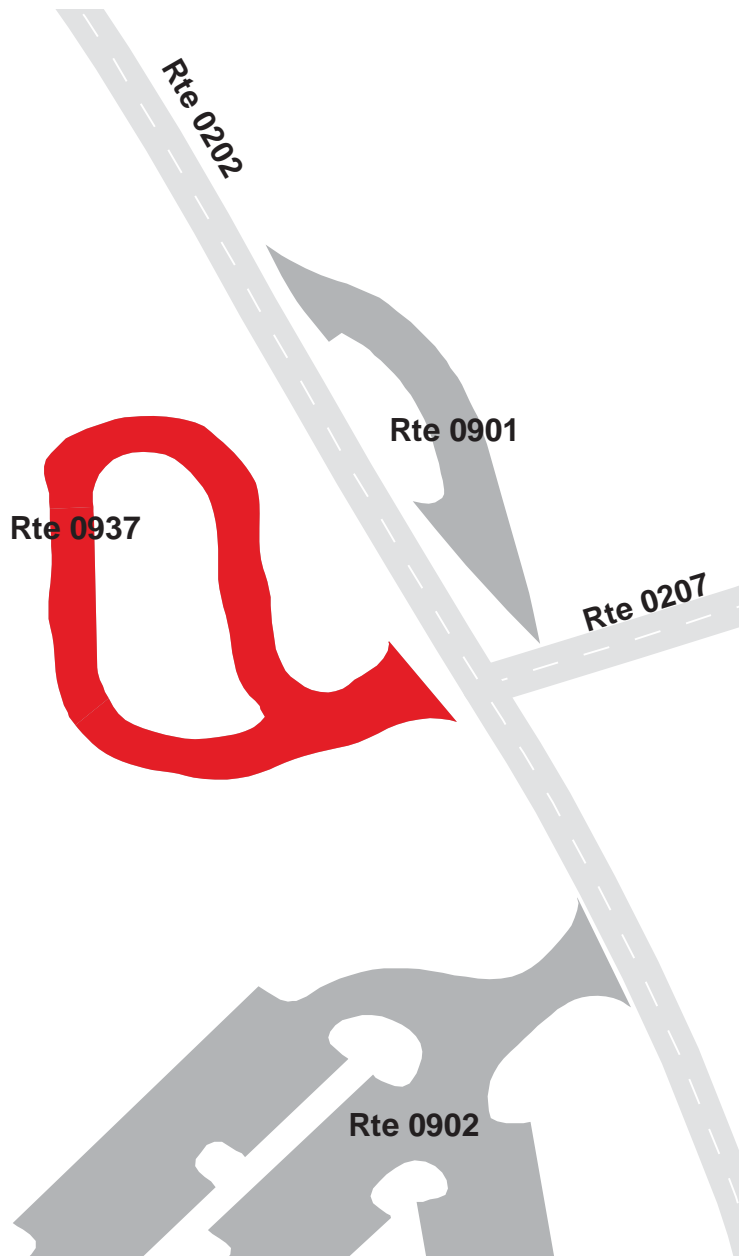
# ZION NATIONAL PARK

## Route 0937

ZION CANYON VISITOR CENTER SHUTTLE BUS PARKING  
FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.17 ON RIGHT  
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0937	PUBLIC	7/15/2009		12,344	0.21	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	1	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

\* Lane miles are based on 11' lane widths



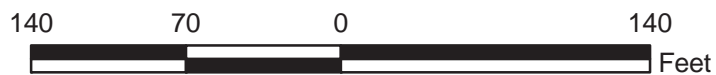
# ZION NATIONAL PARK

## Route 0938

KOLOB CANYON MAINTENANCE PARKING  
 FROM ROUTE 0410 (KOLOB SERVICE ROAD) AT MP 0.38 ON RIGHT  
 TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0938	NONPUBLIC	7/15/2009		9,076	0.16	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	1	NO CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

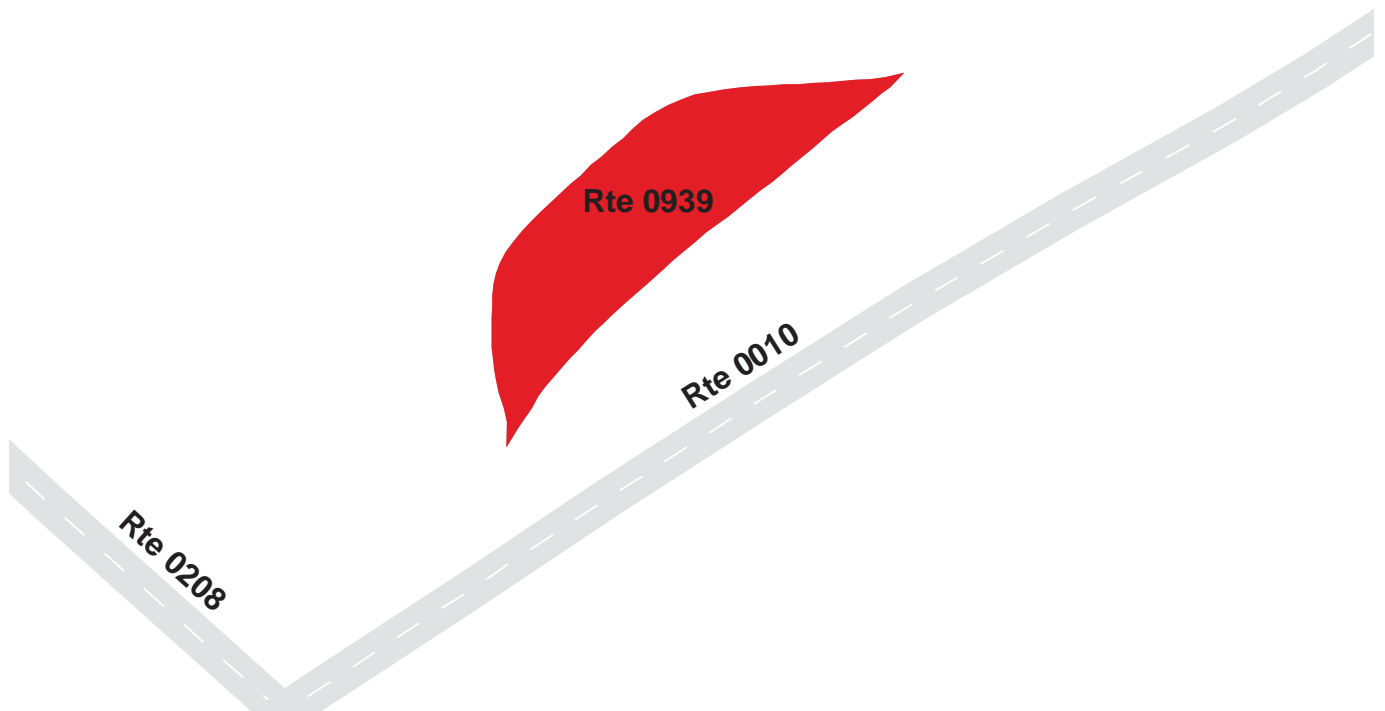
## Route 0939

EAST ENTRANCE STATION PARKING AREA

ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 11.52 ON RIGHT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0939	PUBLIC	7/14/2009		4,558	0.08	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

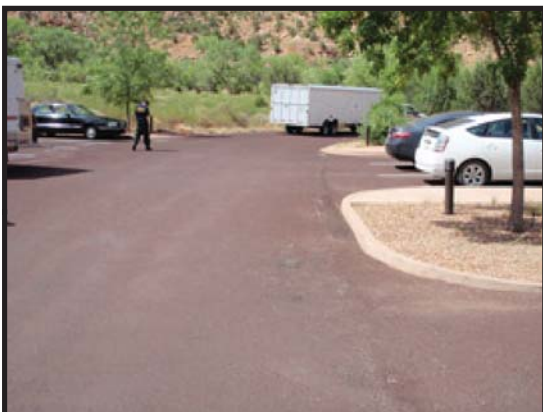
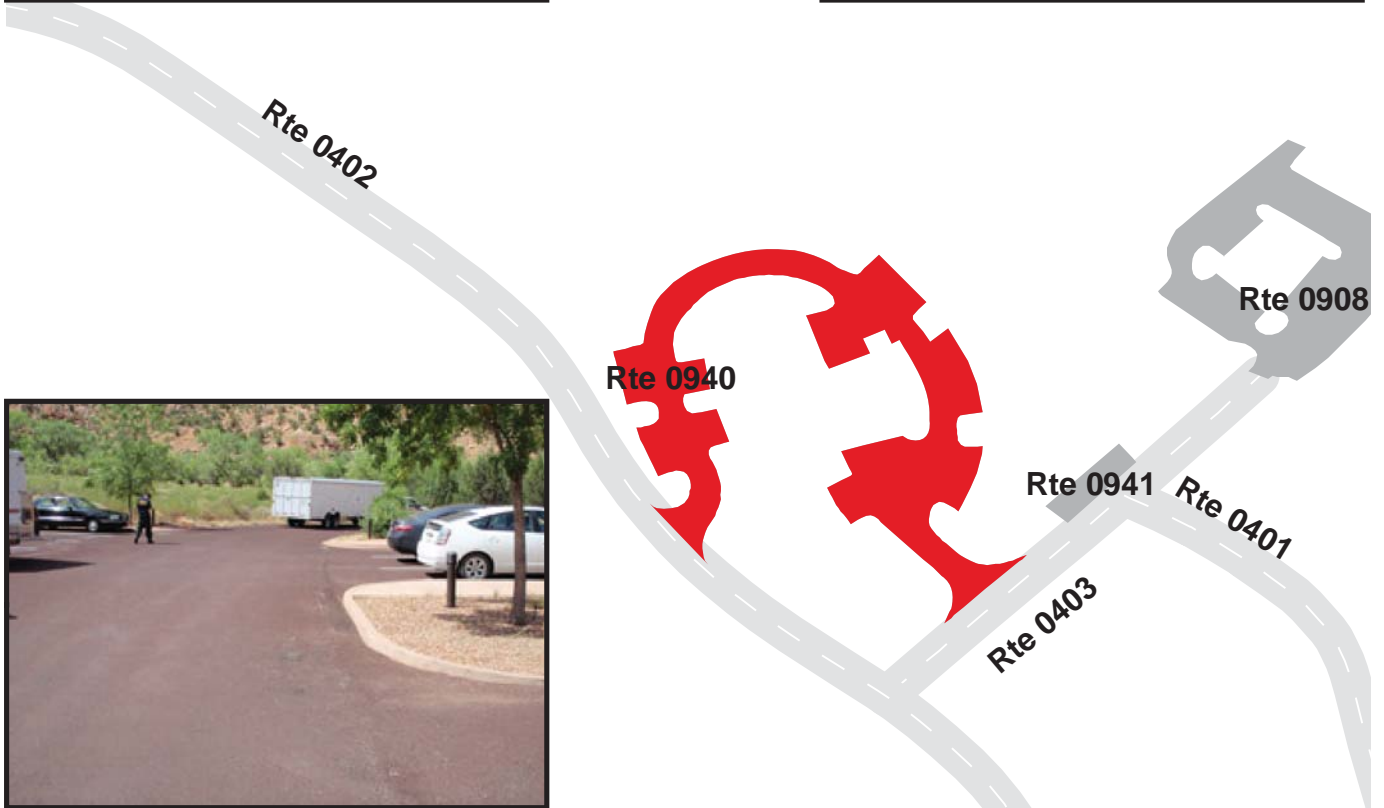
## Route 0940

### E.O.C. PARKING AREA

FROM ROUTE 0402 (OAK CREEK ROAD) AT MP 0.08 ON RIGHT  
TO ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD) AT MP 0.02 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0940	PUBLIC	7/14/2009		32,010	0.55	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	1	0	1	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

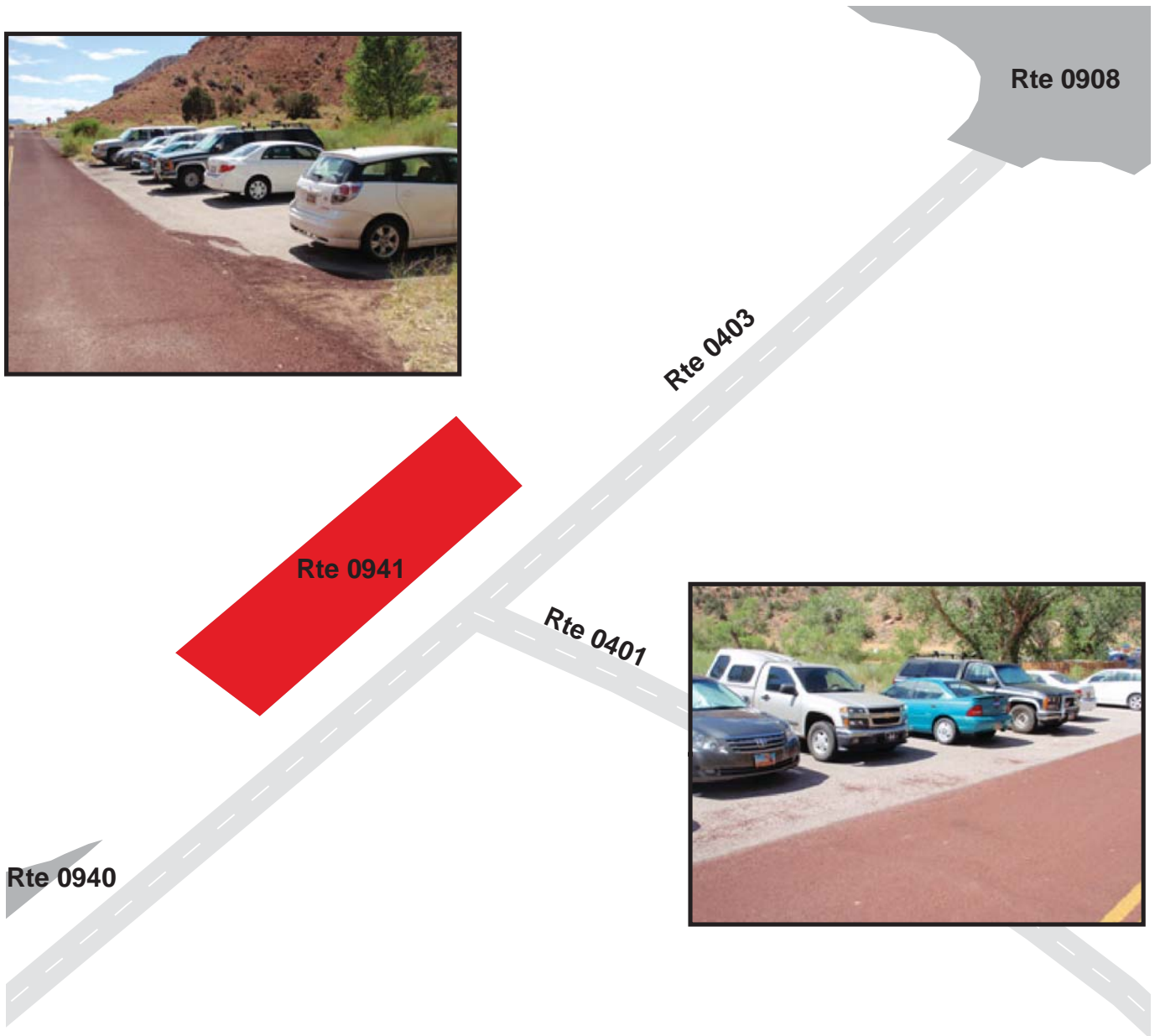
## Route 0941

### HEADQUARTERS WATCHMAN JUNCTION PARKING

ADJACENT TO ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD) AT MP 0.05 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0941	PUBLIC	7/14/2009		1,817	0.03	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths





# ZION NATIONAL PARK

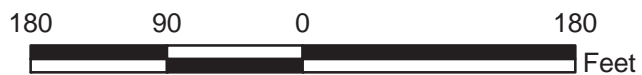
## Route 0943

### UPPER LEE PASS PARKING

ADJACENT TO ROUTE 0013 (KOLOB CANYON ROAD) AT MP 4.49 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0943	PUBLIC	7/15/2009		5,472	0.09	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	ASPHALT CURB	POOR/45

\* Lane miles are based on 11' lane widths



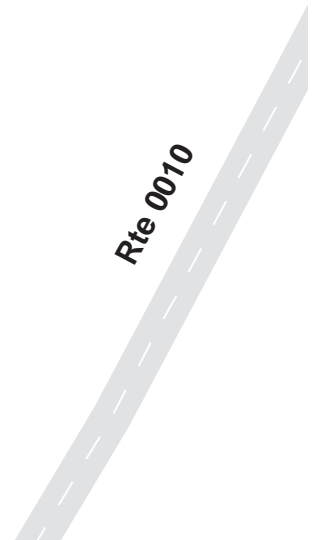
# ZION NATIONAL PARK

## Route 0945

SOUTH ENTRANCE STATION EMPLOYEE PARKING  
 ADJACENT TO ROUTE 0010 (ZION-MT CARMEL HIGHWAY) ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0945	PUBLIC	7/14/2009		1,276	0.02	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

\* Lane miles are based on 11' lane widths



# ZION NATIONAL PARK

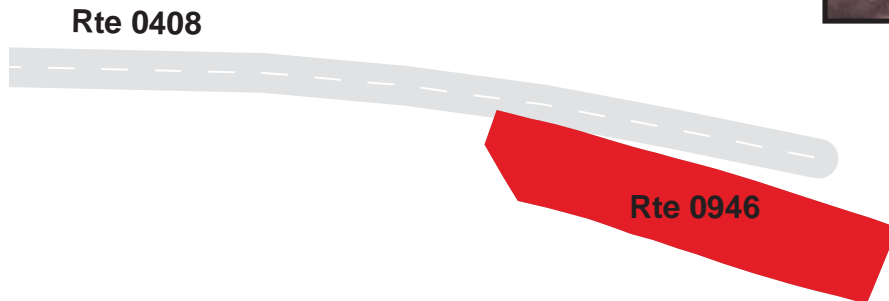
## Route 0946

### OAK CREEK DORM PARKING

ADJACENT TO ROUTE 0408 (OAK CREEK RESIDENCE SPUR ROAD) AT MP 0.17 ON LEFT

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0946	PUBLIC	7/14/2009		1,436	0.03	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

\* Lane miles are based on 11' lane widths



# Zion National Park



## **Section 8** **Parkwide / Route Maintenance** **Features Summaries**

## ZION: PARKWIDE MAINTENANCE FEATURES SUMMARY

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

<b>FEATURE</b>	<b>LINEAR FEET</b>	<b>COUNT</b>
BARRIER	17,936	--
BOLLARD	5,914	--
BRIDGE	--	10
CABLE	0	--
CATTLE GUARD	--	3
CULVERT	--	331
CURB	37,161	--
DROP INLET	--	111
FIRE HYDRANT	--	40
GATE	--	25
GUARD/GUIDE RAIL	2,418	--
GUARD/GUIDE WALL	15,518	--
INTERSECTION	--	265
LOW WATER CROSSING	74	3
MILE MARKER	--	1
OVERPASS	--	1
OVERHEAD SIGN	--	4
PARK BOUNDARY	--	7
PAVED DITCH	1,410	--
PULLOUT	--	73
RAILROAD CROSSING	--	0
RETAINING WALL	4,800	63
SIGN	--	878
STATE BOUNDARY	--	0
TEMPORARY BARRIER	0	--
TRAFFIC LIGHT	--	0
TUNNEL	6,209	2
TURNOUT	0	--

## ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 ZION-MT CARMEL HIGHWAY	ROUTE 0011 ZION SCENIC CANYON DRIVE	ROUTE 0012 KOLOB TERRACE ROAD SOUTH	ROUTE 0013 KOLOB CANYON ROAD	ROUTE 0014 KOLOB TERRACE ROAD NORTH	ROUTE 0200 SOUTH CAMPGROUND OUTER LOOP	UNIT
BARRIER	8,965	1,457	0	7,007	0	0	LINEAR FEET
BOLLARD	0	0	0	5,914	0	0	LINEAR FEET
BRIDGE	6	1	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	2	0	1	0	EACH
CULVERT	98	37	11	45	18	32	EACH
CURB	5,877	3,321	0	26,220	0	32	LINEAR FEET
DROP INLET	10	35	0	22	0	0	EACH
FIRE HYDRANT	2	1	0	0	0	0	EACH
GATE	1	1	0	5	1	1	EACH
GUARD/GUIDE RAIL	776	84	0	1,051	0	0	LINEAR FEET
GUARD/GUIDE WALL	8,189	1,373	0	5,956	0	0	LINEAR FEET
INTERSECTION	28	26	7	12	10	21	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	1	0	0	0	0	0	EACH
OVERHEAD SIGN	4	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	2	0	2	1	2	0	EACH
PAVED DITCH	945	417	0	26	0	0	LINEAR FEET
PULLOUT	34	13	0	19	1	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	36	19	0	3	0	0	EACH
RETAINING WALL	2,969	1,555	0	68	0	0	LINEAR FEET
SIGN	301	164	40	86	55	29	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	2	0	0	0	0	0	EACH
TUNNEL	6,209	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

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

## ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0200ZZ SOUTH CAMPGROUND INSIDE ROADS	ROUTE 0202 WATCHMAN CAMPGROUND ROAD	ROUTE 0202A WATCHMAN CAMPGROUND LOOP A	ROUTE 0202B WATCHMAN CAMPGROUND LOOP B	ROUTE 0202C WATCHMAN CAMPGROUND LOOP C	ROUTE 0202D WATCHMAN CAMPGROUND LOOP D	UNIT
BARRIER	0	195	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	1	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	35	6	1	3	10	14	EACH
CURB	0	560	0	0	0	0	LINEAR FEET
DROP INLET	0	3	6	7	0	1	EACH
FIRE HYDRANT	0	2	0	0	0	0	EACH
GATE	0	3	1	1	1	0	EACH
GUARD/GUIDE RAIL	0	195	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	42	16	6	8	5	5	EACH
LOW WATER CROSSING	0	0	0	2	0	0	EACH
LOW WATER CROSSING	0	0	0	16	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	13	53	11	47	1	1	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

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

## ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0202E WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS	ROUTE 0202F WATCHMAN CAMPGROUND LOOP F	ROUTE 0207 WATCHMAN TRAIL ROAD	ROUTE 0208 EAST RIM TRAIL ACCESS	ROUTE 0400 WATCHMAN HOUSING COMPLEX ROAD	ROUTE 0401 WATCHMAN RESIDENCE ROAD	UNIT
BARRIER	0	0	0	0	0	195	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	1	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	1	4	1	0	0	2	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	1	3	0	0	0	0	EACH
FIRE HYDRANT	1	0	1	0	1	5	EACH
GATE	1	0	0	1	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	195	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	7	4	7	3	4	7	EACH
LOW WATER CROSSING	0	0	1	0	0	0	EACH
LOW WATER CROSSING	0	0	58	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	1	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	3	0	16	2	1	16	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

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



## ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0402 OAK CREEK ROAD	ROUTE 0403 OAK CREEK HEADQUARTERS ROAD	ROUTE 0404 VISITOR CENTER RESIDENTIAL ROAD	ROUTE 0407 OAK CREEK RESIDENCE ROAD	ROUTE 0408 OAK CREEK RESIDENCE SPUR ROAD	ROUTE 0409 HORSE CORRAL ROAD / BIRCH CREEK ROAD	UNIT
BARRIER	0	116	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	1	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	4	0	1	2	0	0	EACH
CURB	0	21	90	180	850	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	1	0	1	3	2	2	EACH
GATE	1	0	0	0	0	1	EACH
GUARD/GUIDE RAIL	0	116	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	9	6	3	4	4	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	21	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	2	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	5	0	0	0	0	0	EACH
RETAINING WALL	208	0	0	0	0	0	LINEAR FEET
SIGN	9	3	1	6	3	4	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

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

## ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0410 KOLB SERVICE ROAD	ROUTE 0412 CONCESSIONAIRE / DORM ACCESS ROAD	UNIT
BARRIER	0	0	LINEAR FEET
BOLLARD	0	0	LINEAR FEET
BRIDGE	0	0	EACH
CABLE	0	0	LINEAR FEET
CATTLE GUARD	0	0	EACH
CULVERT	3	1	EACH
CURB	0	11	LINEAR FEET
DROP INLET	0	0	EACH
FIRE HYDRANT	0	3	EACH
GATE	0	1	EACH
GUARD/GUIDE RAIL	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	LINEAR FEET
INTERSECTION	6	9	EACH
LOW WATER CROSSING	0	0	EACH
LOW WATER CROSSING	0	0	LINEAR FEET
MILE MARKER	0	0	EACH
OVERHEAD SIGN	0	0	EACH
OVERPASS	0	0	EACH
PARK BOUNDARY	0	0	EACH
PAVED DITCH	0	0	LINEAR FEET
PULLOUT	4	0	EACH
RAILROAD CROSSING	0	0	EACH
RETAINING WALL	0	0	EACH
RETAINING WALL	0	0	LINEAR FEET
SIGN	8	5	EACH
STATE BOUNDARY	0	0	EACH
TEMPORARY BARRIER	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	EACH
TUNNEL	0	0	EACH
TUNNEL	0	0	LINEAR FEET
TURNOUT	0	0	LINEAR FEET

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

## ZION: STRUCTURE LIST

<b>ROUTE NUMBER</b>	<b>FUNCTIONAL CLASS</b>	<b>MILEPOST START</b>	<b>MILEPOST END</b>	<b>FEATURE</b>	<b>STRUCTURE NUMBER</b>
0010	1	0.721	0.744	BRIDGE	1590-003
0010	1	1.526	1.559	BRIDGE	1590-004
0010	1	2.11	2.133	BRIDGE	1590-005
0010	1	5.069	6.151	TUNNEL	1590-012
0010	1	6.155	6.168	BRIDGE	1590-006
0010	1	7.486	7.58	TUNNEL	1590-013
0010	1	10.253	10.276	BRIDGE	1590-007
0010	1	11.306	11.329	BRIDGE	1590-008
0011	1	4.519	4.523	BRIDGE	1590-009
0202	2	0.092	0.108	BRIDGE	1590-001
0401	5	0.071	0.071	OVERPASS	1590-003
0401	5	0.241	0.258	BRIDGE	1590-002
0403	5	0.067	0.076	BRIDGE	1590-010

# Zion National Park



## **Section 9**

### **Park Route Maintenance Features**

### **Road Logs**

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM BEGINNING OF ROUTE 5002 (SOUTH HIGHWAY 9) AT SOUTH PARK BOUNDARY
0.000	0.000	PARK BOUNDARY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 5002 (SOUTH HIGHWAY 9)
0.004	0.029	CURB-AND-GUTTER	RIGHT	
0.007	0.007	SIGN	RIGHT	GUIDE, ZION CANYON THEATER ALL TOUR BUS PARKING
0.013	0.013	SIGN	RIGHT	REGULATORY, 9
0.013	0.013	SIGN	RIGHT	REGULATORY, WEST
0.014	0.014	FIRE HYDRANT	RIGHT	
0.015	0.015	SIGN	RIGHT	GUIDE, U.S. FEE AREA
0.023	0.023	SIGN	RIGHT	WARNING, NO
0.023	0.023	SIGN	RIGHT	REGULATORY, SPEED LIMIT 30
0.028	0.028	SIGN	RIGHT	GUIDE, CAMP ONLY IN CAMPGROUND
0.028	0.028	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.033	0.033	INTERSECTION	RIGHT	ROUTE 0900 (SOUTH ENTRANCE PARKING)
0.039	0.077	CURB	RIGHT	
0.043	0.043	SIGN	RIGHT	GUIDE, PARK IN SPRINGDALE
0.043	0.043	SIGN	RIGHT	GUIDE, VISITOR CENTER PARKING LOT FULL
0.057	0.085	GUARD/GUIDE WALL	LEFT	
0.058	0.080	RETAINING WALL	LEFT	ZION-0010-0.058-L
0.082	0.082	INTERSECTION	RIGHT	ROUTE 0900 (SOUTH ENTRANCE PARKING)
0.085	0.087	CURB	RIGHT	
0.087	0.087	SIGN	LEFT	GUIDE, LEAVING ZION NATIONAL PARK
0.087	0.087	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.088	0.088	SIGN	RIGHT	GUIDE, ZION NATIONAL PARK
0.089	0.089	SIGN	RIGHT	GUIDE, ALL TOUR BUS PARKING LEFT 100 YARDS
0.089	0.089	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.093	0.093	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.109	0.109	SIGN	RIGHT	GUIDE, RIGHT LANE EMPLOYEE AND AUTHORIZED VEHICLES ONLY
0.109	0.109	SIGN	RIGHT	GUIDE, WILDLAND FIRE DANGER FIRE DANGER TODAY!
0.110	0.110	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.120	0.120	SIGN	RIGHT	GUIDE, THRU LANE
0.122	0.140	CURB	LEFT	
0.123	0.140	CURB	N/A	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.124	0.124	SIGN	LEFT	GUIDE, ZION NATIONAL PARK
0.125	0.125	SIGN	N/A	GUIDE, ZION NATIONAL PARK
0.128	0.128	SIGN	LEFT	REGULATORY, STOP
0.128	0.128	SIGN	N/A	REGULATORY, STOP
0.130	0.130	SIGN	N/A	GUIDE, WATCHMAN CAMPGROUND
0.133	0.133	GATE	N/A	STICK
0.139	0.139	SIGN	N/A	GUIDE, VISITOR CENTER
0.143	0.143	INTERSECTION	LEFT	ROUTE 0945 (SOUTH ENTRANCE STATION EMPLOYEE PARKING)
0.149	0.149	SIGN	RIGHT	REGULATORY, YIELD
0.159	0.159	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.159	0.159	SIGN	RIGHT	GUIDE, VISITOR CENTER WATCHMAN CAMPGROUND SOUTH CAMPGROUND
0.164	0.164	CULVERT	N/A	
0.169	0.169	SIGN	RIGHT	WARNING, SLOW PROCEED WITH CAUTION
0.173	0.173	SIGN	RIGHT	GUIDE, ALL BICYCLES USE PARUS TRAIL
0.185	0.185	INTERSECTION	RIGHT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.194	0.194	SIGN	RIGHT	GUIDE, VISITOR CENTER
0.202	0.202	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.211	0.211	INTERSECTION	RIGHT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) SPUR
0.228	0.228	SIGN	RIGHT	REGULATORY, ENTRANCE STATION
0.228	0.228	SIGN	RIGHT	WARNING, SLOW
0.248	0.248	SIGN	RIGHT	GUIDE, VISITOR CENTER
0.253	0.395	PAVED DITCH	RIGHT	
0.259	0.259	SIGN	RIGHT	GUIDE, BUCKLE UP IT'S THE LAW!
0.272	0.272	CULVERT	N/A	
0.274	0.274	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.277	0.277	SIGN	RIGHT	GUIDE, VISITOR CENTER WATCHMAN CAMPGROUND SPRINGDALE ALL TOUR BUS PARKING
0.285	0.285	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.285	0.285	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.301	0.301	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.301	0.301	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.306	0.306	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.306	0.306	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.308	0.308	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.308	0.308	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.333	0.333	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.334	0.334	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.369	0.369	MILE MARKER	RIGHT	
0.393	0.393	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) OPPOSITE LANE
0.394	0.394	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
0.394	0.445	CURB	LEFT	
0.394	0.394	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.394	0.394	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.400	0.400	SIGN	RIGHT	GUIDE, SOUTH CAMPGROUND
0.403	0.403	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.404	0.404	DROP INLET	LEFT	
0.457	0.457	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.465	0.520	CURB	LEFT	
0.469	0.469	CULVERT	N/A	
0.470	0.470	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.493	0.527	PAVED DITCH	RIGHT	
0.520	0.520	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.520	0.520	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.521	0.554	PULLOUT	RIGHT	
0.522	0.522	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) OPPOSITE LANE
0.543	0.543	SIGN	RIGHT	GUIDE, VISITOR CENTER WATCHMAN CAMPGROUND SPRINGDALE SOUTH CAMPGROUND
0.568	0.568	CULVERT	N/A	
0.571	0.571	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.614	0.614	SIGN	RIGHT	GUIDE, MAINTENANCE AREA ADMINISTRATIVE OFFICES MUSEUM
0.640	0.640	SIGN	RIGHT	GUIDE, CAMPGROUNDS
0.646	0.646	CULVERT	N/A	
0.650	0.650	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.655	0.655	INTERSECTION	LEFT	ROUTE 0402 (OAK CREEK ROAD) SPUR
0.666	0.666	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.675	0.675	INTERSECTION	LEFT	ROUTE 0402 (OAK CREEK ROAD)
0.694	0.694	SIGN	RIGHT	GUIDE, VISITOR CENTER MAINTENANCE AREA

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.710	0.745	GUARD/GUIDE RAIL	RIGHT	
0.719	0.753	GUARD/GUIDE RAIL	LEFT	
0.721	0.744	BRIDGE	N/A	1590-003 (OAK CREEK BRIDGE)
0.774	0.774	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.785	0.785	SIGN	RIGHT	WARNING, 25 M.P.H.
0.785	0.785	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.833	0.833	SIGN	RIGHT	GUIDE, ADMINISTRATIVE OFFICES MUSEUM
0.842	0.842	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.842	0.842	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.857	0.857	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.857	0.857	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.870	0.870	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) OPPOSITE LANE
0.870	0.920	CURB	LEFT	
0.871	0.871	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.871	0.871	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.913	0.913	SIGN	RIGHT	GUIDE, VISITOR CENTER
0.926	0.926	INTERSECTION	LEFT	ROUTE 0911 (MUSEUM PARKING AREA)
0.928	0.977	CURB	LEFT	
0.942	0.942	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.950	0.950	CULVERT	N/A	
0.977	0.977	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.977	0.977	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.980	0.980	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) OPPOSITE LANE
0.986	0.986	SIGN	RIGHT	GUIDE, VISITOR CENTER ADMINISTRATIVE OFFICES MUSEUM
0.987	1.018	PULLOUT	LEFT	
1.017	1.017	CULVERT	N/A	
1.021	1.021	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.047	1.047	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
1.117	1.117	CULVERT	N/A	
1.228	1.228	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
1.228	1.228	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
1.230	1.230	CULVERT	N/A	
1.278	1.278	CULVERT	N/A	
1.307	1.307	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
1.321	1.321	INTERSECTION	LEFT	ROUTE 0404 (VISITOR CENTER RESIDENTIAL ROAD)
1.325	1.325	FIRE HYDRANT	RIGHT	
1.350	1.350	CULVERT	N/A	
1.404	1.404	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
1.407	1.407	CULVERT	N/A	
1.419	1.419	SIGN	RIGHT	WARNING, 25 M.P.H.
1.419	1.419	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.453	1.453	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
1.485	1.485	SIGN	RIGHT	GUIDE, SHUTTLE PARKING 1 MILE
1.505	1.505	INTERSECTION	LEFT	UNPAVED ROUTE (GATED)
1.515	1.515	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
1.519	1.519	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
1.519	1.519	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.521	1.560	GUARD/GUIDE RAIL	RIGHT	
1.524	1.563	GUARD/GUIDE RAIL	LEFT	
1.526	1.559	BRIDGE	N/A	1590-004 (VIRGIN RIVER BRIDGE)
1.564	1.564	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.573	1.573	SIGN	LEFT	REGULATORY, DO NOT ENTER
1.575	1.575	INTERSECTION	LEFT	ROUTE 0011 (ZION SCENIC CANYON DRIVE) SPUR
1.581	1.581	SIGN	LEFT	REGULATORY, DO NOT ENTER
1.586	1.586	SIGN	RIGHT	GUIDE, U.S. HWY 89 24 MI TUNNEL 3.6 MI ZION LODGE 3 MI RED PERMIT REQUIRED
1.600	1.600	INTERSECTION	LEFT	ROUTE 0011 (ZION SCENIC CANYON DRIVE)
1.607	1.607	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.610	1.610	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
1.610	1.610	SIGN	RIGHT	REGULATORY, NO TRACTOR TRAILERS
1.610	1.610	SIGN	RIGHT	WARNING, LOW TUNNEL CLEARANCE
1.611	1.611	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.620	1.620	CULVERT	N/A	
1.625	1.625	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.629	1.629	INTERSECTION	RIGHT	ROUTE 0933A (PINE CREEK OVERLOOK PARKING A)
1.665	1.665	SIGN	RIGHT	GUIDE, VISITOR CENTER SPRINGDALE
1.665	1.665	SIGN	RIGHT	REGULATORY, ZION LODGE RED PERMIT REQUIRED
1.705	1.705	INTERSECTION	RIGHT	ROUTE 0933B (PINE CREEK OVERLOOK PARKING B)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
1.751	1.751	CULVERT	N/A	
1.752	1.752	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.772	1.772	CULVERT	N/A	
1.775	1.775	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.800	1.800	CULVERT	N/A	
1.804	1.804	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.854	1.854	CULVERT	N/A	
1.855	1.855	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.907	1.907	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
1.954	1.954	CULVERT	N/A	
1.958	1.958	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.981	1.981	SIGN	RIGHT	WARNING, 25 M.P.H.
1.981	1.981	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.014	2.045	PULLOUT	RIGHT	
2.077	2.099	PULLOUT	LEFT	
2.100	2.100	DROP INLET	RIGHT	
2.101	2.134	GUARD/GUIDE WALL	RIGHT	
2.101	2.134	GUARD/GUIDE WALL	LEFT	
2.101	2.101	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.110	2.133	BRIDGE	N/A	1590-005 (PINE CREEK SANDSTONE ARCH)
2.136	2.136	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.230	2.230	CULVERT	N/A	
2.232	2.232	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.263	2.263	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.263	2.263	SIGN	RIGHT	WARNING, 20 M.P.H.
2.320	2.348	GUARD/GUIDE WALL	RIGHT	
2.364	2.364	CULVERT	N/A	
2.368	2.368	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.396	2.396	CULVERT	N/A	
2.400	2.400	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.403	2.403	SIGN	RIGHT	WARNING, 20 M.P.H.
2.403	2.403	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.460	2.512	GUARD/GUIDE WALL	RIGHT	
2.469	2.518	GUARD/GUIDE WALL	LEFT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
2.546	2.546	DROP INLET	RIGHT	
2.556	2.578	PULLOUT	LEFT	
2.578	2.578	SIGN	RIGHT	WARNING, 20 M.P.H.
2.578	2.578	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.598	2.601	RETAINING WALL	RIGHT	ZION-0010-2.598-R
2.602	2.602	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.602	2.602	CULVERT	N/A	
2.645	2.660	RETAINING WALL	LEFT	ZION-0010-2.645-L
2.651	2.672	GUARD/GUIDE WALL	LEFT	
2.666	2.666	CULVERT	N/A	
2.666	2.666	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.677	2.681	GUARD/GUIDE WALL	LEFT	
2.696	2.726	GUARD/GUIDE WALL	LEFT	
2.702	2.722	RETAINING WALL	LEFT	ZION-0010-2.702-L
2.711	2.711	CULVERT	N/A	
2.711	2.711	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.737	2.766	RETAINING WALL	LEFT	ZION-0010-2.737-L
2.742	2.774	GUARD/GUIDE WALL	LEFT	
2.784	2.790	RETAINING WALL	LEFT	ZION-0010-2.784-L
2.787	2.804	GUARD/GUIDE WALL	LEFT	
2.792	2.792	DROP INLET	RIGHT	
2.793	2.793	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.810	2.840	RETAINING WALL	LEFT	ZION-0010-2.810-L
2.814	2.843	GUARD/GUIDE WALL	LEFT	
2.864	2.902	GUARD/GUIDE WALL	LEFT	
2.879	2.879	CULVERT	N/A	
2.879	2.879	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.919	2.925	GUARD/GUIDE WALL	LEFT	
2.941	2.981	GUARD/GUIDE WALL	LEFT	
2.945	2.981	PULLOUT	RIGHT	
2.962	2.962	CULVERT	N/A	
2.994	3.000	GUARD/GUIDE WALL	LEFT	
3.018	3.065	GUARD/GUIDE WALL	LEFT	
3.057	3.057	CULVERT	N/A	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
3.058	3.058	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.072	3.210	GUARD/GUIDE WALL	LEFT	
3.140	3.140	CULVERT	N/A	
3.141	3.141	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.265	3.265	CULVERT	N/A	
3.266	3.266	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.305	3.305	SIGN	RIGHT	WARNING, 20 M.P.H.
3.305	3.305	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.326	3.326	CULVERT	N/A	
3.335	3.378	PULLOUT	RIGHT	
3.337	3.378	GUARD/GUIDE WALL	LEFT	
3.340	3.377	PULLOUT	LEFT	
3.355	3.379	RETAINING WALL	LEFT	ZION-0010-3.355-L
3.379	3.379	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.455	3.462	GUARD/GUIDE WALL	RIGHT	
3.481	3.481	SIGN	RIGHT	WARNING, 20 M.P.H.
3.481	3.481	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.481	3.487	GUARD/GUIDE WALL	RIGHT	
3.484	3.484	CULVERT	N/A	
3.488	3.488	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.505	3.512	GUARD/GUIDE WALL	RIGHT	
3.530	3.537	GUARD/GUIDE WALL	RIGHT	
3.555	3.562	GUARD/GUIDE WALL	RIGHT	
3.580	3.615	GUARD/GUIDE WALL	RIGHT	
3.605	3.605	CULVERT	N/A	
3.608	3.608	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.649	3.649	SIGN	RIGHT	WARNING, 20 M.P.H.
3.649	3.649	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.682	3.753	GUARD/GUIDE WALL	RIGHT	
3.744	3.744	CULVERT	N/A	
3.852	3.852	SIGN	RIGHT	WARNING, 20 M.P.H.
3.852	3.885	GUARD/GUIDE WALL	LEFT	
3.852	3.852	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.879	3.879	CULVERT	N/A	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.967	3.989	GUARD/GUIDE WALL	LEFT	
3.983	3.983	CULVERT	N/A	
3.983	3.983	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.029	4.059	PULLOUT	LEFT	
4.029	4.048	PULLOUT	RIGHT	
4.047	4.047	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.048	4.048	CULVERT	N/A	
4.133	4.133	SIGN	RIGHT	WARNING, 20 M.P.H.
4.133	4.133	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.141	4.206	PULLOUT	RIGHT	
4.143	4.143	CULVERT	N/A	
4.148	4.148	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.167	4.170	GUARD/GUIDE WALL	RIGHT	
4.206	4.253	GUARD/GUIDE WALL	LEFT	
4.283	4.319	PULLOUT	RIGHT	
4.359	4.359	SIGN	RIGHT	WARNING, 20 M.P.H.
4.359	4.359	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.505	4.534	GUARD/GUIDE WALL	RIGHT	
4.524	4.524	CULVERT	N/A	
4.526	4.526	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.550	4.563	GUARD/GUIDE WALL	RIGHT	
4.572	4.572	SIGN	RIGHT	WARNING, CAUTION DELAYS POSSIBLE BE PREPARED TO STOP NEXT 1/2 MILE
4.587	4.715	GUARD/GUIDE WALL	RIGHT	
4.645	4.645	SIGN	RIGHT	WARNING, 20 M.P.H.
4.645	4.645	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.670	4.670	CULVERT	N/A	
4.671	4.671	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.764	4.764	SIGN	RIGHT	GUIDE, CAUTION BE PREPARED TO STOP NEXT 1/4 MILE
4.775	4.800	RETAINING WALL	LEFT	ZION-0010-4.775-L
4.791	4.838	GUARD/GUIDE WALL	LEFT	
4.792	4.792	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.792	4.792	SIGN	RIGHT	WARNING, 20 M.P.H.
4.835	4.835	SIGN	RIGHT	WARNING, NARROW TUNNEL LOW CLEARANCE SHARP CURVES

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
4.841	4.841	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.853	4.885	RETAINING WALL	LEFT	ZION-0010-4.853-L
4.861	4.861	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.883	4.883	SIGN	RIGHT	WARNING, HILL
4.883	4.913	GUARD/GUIDE WALL	LEFT	
4.883	4.883	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.894	4.894	CULVERT	N/A	
4.897	4.967	LANE DEVIATION	N/A	
4.899	4.899	SIGN	RIGHT	GUIDE, TUNNEL COMPLETED 1930 LENGTH 1.1MI
4.988	4.988	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.992	4.992	SIGN	RIGHT	REGULATORY, TURN LIGHTS ON IN TUNNEL
4.992	4.992	SIGN	RIGHT	WARNING, DARK TUNNEL REMOVE SUNGLASSES WATCH FOR SLOW MOVING VEHICLES
5.008	5.068	GUARD/GUIDE WALL	LEFT	
5.043	5.043	SIGN	RIGHT	REGULATORY, NO STOPS IN TUNNEL
5.055	5.055	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
5.059	5.059	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
5.060	5.060	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
5.060	5.060	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
5.060	5.060	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.065	5.065	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
5.068	5.068	SIGN	N/A	WARNING, 11' 4"
5.068	5.068	SIGN	N/A	WARNING, 13' 1"
5.069	6.151	TUNNEL	N/A	1590-012 (ZION - MOUNT CARMEL TUNNEL)
5.213	5.223	GUARD/GUIDE WALL	LEFT	
5.349	5.352	GUARD/GUIDE WALL	LEFT	
5.633	5.635	RETAINING WALL	RIGHT	ZION-0010-5.633-R
5.694	5.743	LANE DEVIATION	N/A	
5.981	5.981	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
5.983	5.983	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
5.984	5.984	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
5.986	5.986	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
6.146	6.146	SIGN	N/A	WARNING, 11' 4"
6.146	6.146	SIGN	N/A	WARNING, 13' 1"

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
6.148	6.168	GUARD/GUIDE WALL	LEFT	
6.149	6.149	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
6.149	6.149	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
6.149	6.149	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
6.155	6.168	BRIDGE	N/A	1590-006 (EAST PORTAL BRIDGE)
6.155	6.184	GUARD/GUIDE WALL	RIGHT	
6.169	6.169	SIGN	RIGHT	REGULATORY, TURN LIGHTS ON IN TUNNEL
6.176	6.270	CURB	LEFT	
6.182	6.182	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.182	6.182	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.187	6.187	SIGN	LEFT	REGULATORY, STOP
6.189	6.190	CURB	RIGHT	
6.190	6.190	INTERSECTION	RIGHT	ROUTE 0912 (TUNNEL EAST PARKING CANYON OVERLOOK)
6.222	6.222	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.270	6.270	SIGN	RIGHT	REGULATORY, NO STOPS IN TUNNEL
6.290	6.290	CULVERT	N/A	
6.299	6.299	INTERSECTION	LEFT	ROUTE 0932 (CANYON OVERLOOK PARKING)
6.309	6.309	CULVERT	N/A	
6.318	6.318	SIGN	RIGHT	GUIDE, CANYON OVERLOOK PARKING
6.318	6.318	SIGN	RIGHT	REGULATORY, NO BUS PARKING
6.328	6.328	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
6.330	6.330	SIGN	RIGHT	REGULATORY, SLOW MOVING VEHICLE PULLOUT
6.335	6.377	PULLOUT	RIGHT	
6.336	6.336	SIGN	RIGHT	WARNING, DARK TUNNEL REMOVE SUNGLASSES WATCH FOR SLOW MOVING VEHICLES
6.350	6.350	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
6.359	6.359	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
6.409	6.409	SIGN	RIGHT	WARNING, NARROW TUNNEL LOW CLEARANCE SHARP CURVES
6.410	6.410	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
6.429	6.429	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
6.439	6.439	SIGN	RIGHT	GUIDE, CAUTION BE PREPARED TO STOP NEXT 1/4 MILE
6.443	6.443	CULVERT	N/A	
6.511	6.519	RETAINING WALL	LEFT	ZION-0010-6.511-L
6.512	6.532	RETAINING WALL	RIGHT	ZION-0010-6.512-R

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
6.542	6.542	CULVERT	N/A	
6.548	6.550	RETAINING WALL	LEFT	ZION-0010-6.548-L
6.552	6.554	RETAINING WALL	RIGHT	ZION-0010-6.552-R
6.558	6.577	PULLOUT	LEFT	
6.571	6.571	SIGN	RIGHT	WARNING, CAUTION DELAYS POSSIBLE BE PREPARED TO STOP NEXT 1/2 MILE
6.576	6.576	CULVERT	N/A	
6.687	6.708	PULLOUT	LEFT	
6.708	6.708	CULVERT	N/A	
6.758	6.758	CULVERT	N/A	
6.846	6.846	CULVERT	N/A	
6.892	6.910	GUARD/GUIDE WALL	RIGHT	
6.908	6.920	RETAINING WALL	RIGHT	ZION-0010-6.908-R
6.957	6.957	CULVERT	N/A	
6.977	6.977	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.981	6.981	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.985	6.985	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.994	6.994	CULVERT	N/A	
6.996	6.996	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.082	7.082	CULVERT	N/A	
7.168	7.170	RETAINING WALL	LEFT	ZION-0010-7.168-L
7.198	7.198	CULVERT	N/A	
7.215	7.218	RETAINING WALL	LEFT	ZION-0010-7.215-L
7.220	7.238	RETAINING WALL	RIGHT	ZION-0010-7.220-R
7.238	7.238	CULVERT	N/A	
7.242	7.242	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.289	7.289	CULVERT	N/A	
7.292	7.292	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.361	7.361	CULVERT	N/A	
7.363	7.363	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.404	7.404	SIGN	RIGHT	WARNING, 20 M.P.H.
7.404	7.404	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.404	7.404	SIGN	RIGHT	WARNING, DARK TUNNEL REMOVE SUNGLASSES WATCH FOR SLOW MOVING VEHICLES
7.442	7.442	CULVERT	N/A	



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
7.449	7.492	CURB	RIGHT	
7.456	7.491	CURB	LEFT	
7.457	7.457	SIGN	RIGHT	GUIDE, LIGHTS REQUIRED CAUTION BICYCLES MAY BE PRESENT
7.461	7.486	PULLOUT	RIGHT	
7.463	7.485	PULLOUT	LEFT	
7.484	7.484	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
7.486	7.580	TUNNEL	N/A	1590-013 (SHORT TUNNEL)
7.491	7.576	CURB	LEFT	
7.492	7.577	CURB	RIGHT	
7.570	7.574	RETAINING WALL	LEFT	ZION-0010-7.570-L
7.570	7.578	RETAINING WALL	RIGHT	ZION-0010-7.570-R
7.576	7.583	CURB	LEFT	
7.577	7.589	CURB	RIGHT	
7.588	7.588	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
7.590	7.590	CULVERT	N/A	
7.592	7.592	CULVERT	N/A	
7.593	7.593	CULVERT	N/A	
7.595	7.595	CULVERT	N/A	
7.638	7.638	SIGN	RIGHT	GUIDE, LIGHTS REQUIRED CAUTION BICYCLES MAY BE PRESENT
7.638	7.638	SIGN	RIGHT	WARNING, TUNNEL
7.725	7.725	CULVERT	N/A	
7.728	7.728	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.760	7.760	CULVERT	N/A	
7.762	7.762	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.812	7.812	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.829	7.829	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.860	7.860	CULVERT	N/A	
7.868	7.893	PULLOUT	LEFT	
7.892	7.892	CULVERT	N/A	
7.982	8.028	PULLOUT	RIGHT	
7.988	7.988	DROP INLET	LEFT	
8.049	8.049	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.056	8.056	CULVERT	N/A	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
8.065	8.119	RETAINING WALL	RIGHT	ZION-0010-8.065-R
8.067	8.067	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.078	8.078	CULVERT	N/A	
8.079	8.079	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.105	8.105	CULVERT	N/A	
8.108	8.108	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.137	8.137	CULVERT	N/A	
8.142	8.142	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.164	8.164	CULVERT	N/A	
8.166	8.166	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.190	8.232	PULLOUT	RIGHT	
8.200	8.200	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.200	8.200	CULVERT	N/A	
8.219	8.219	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.219	8.219	CULVERT	N/A	
8.263	8.263	CULVERT	N/A	
8.267	8.267	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.321	8.321	CULVERT	N/A	
8.388	8.390	RETAINING WALL	LEFT	ZION-0010-8.388-L
8.408	8.408	CULVERT	N/A	
8.428	8.489	PULLOUT	RIGHT	
8.463	8.464	GUARD/GUIDE WALL	RIGHT	
8.465	8.471	CURB	RIGHT	
8.534	8.534	CULVERT	N/A	
8.537	8.541	RETAINING WALL	RIGHT	ZION-0010-8.537-R
8.538	8.544	RETAINING WALL	LEFT	ZION-0010-8.538-L
8.618	8.618	CULVERT	N/A	
8.713	8.713	CULVERT	N/A	
8.713	8.738	PULLOUT	RIGHT	
8.726	8.733	CURB	RIGHT	
8.857	8.941	CURB	RIGHT	
8.867	8.870	RETAINING WALL	LEFT	ZION-0010-8.867-L
8.867	8.873	RETAINING WALL	RIGHT	ZION-0010-8.867-R
8.884	8.884	CULVERT	N/A	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
8.933	8.933	CULVERT	N/A	
8.952	8.952	SIGN	LEFT	GUIDE, NO BUS PARKING
8.952	8.990	PULLOUT	RIGHT	
8.983	8.983	SIGN	RIGHT	GUIDE, NO BUS PARKING
9.016	9.016	CULVERT	N/A	
9.073	9.073	CULVERT	N/A	
9.078	9.078	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.161	9.161	CULVERT	N/A	
9.165	9.165	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.209	9.209	CULVERT	N/A	
9.246	9.246	CULVERT	N/A	
9.333	9.358	PULLOUT	RIGHT	
9.388	9.388	CULVERT	N/A	
9.438	9.465	PULLOUT	RIGHT	
9.442	9.442	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.451	9.451	CULVERT	N/A	
9.457	9.457	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.464	9.464	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.504	9.504	CULVERT	N/A	
9.550	9.568	PULLOUT	RIGHT	
9.604	9.604	CULVERT	N/A	
9.616	9.641	RETAINING WALL	RIGHT	ZION-0010-9.616-R
9.622	9.737	CURB	RIGHT	
9.700	9.700	SIGN	RIGHT	WARNING, 15 M.P.H.
9.700	9.700	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.700	9.730	RETAINING WALL	RIGHT	ZION-0010-9.700-R
9.713	9.713	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.736	9.755	RETAINING WALL	RIGHT	ZION-0010-9.736-R
9.779	9.782	GUARD/GUIDE WALL	RIGHT	
9.787	9.820	GUARD/GUIDE WALL	RIGHT	
9.800	9.800	DROP INLET	LEFT	
9.854	9.854	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.872	9.872	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.883	9.883	DROP INLET	LEFT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
9.885	9.890	RETAINING WALL	RIGHT	ZION-0010-9.885-R
9.885	9.885	SIGN	RIGHT	WARNING, 15 M.P.H.
9.885	9.885	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.892	9.892	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.896	9.910	RETAINING WALL	RIGHT	ZION-0010-9.896-R
9.920	9.952	PULLOUT	RIGHT	
9.957	9.972	RETAINING WALL	RIGHT	ZION-0010-9.957-R
9.969	9.993	GUARD/GUIDE WALL	RIGHT	
9.975	9.975	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.980	9.980	DROP INLET	RIGHT	
10.068	10.157	CURB	RIGHT	
10.072	10.072	CULVERT	N/A	
10.148	10.169	PULLOUT	RIGHT	
10.212	10.240	CURB	LEFT	
10.222	10.282	GUARD/GUIDE WALL	RIGHT	
10.240	10.293	GUARD/GUIDE WALL	LEFT	
10.253	10.276	BRIDGE	N/A	1590-007 (CLEAR CREEK BRIDGE)
10.339	10.339	CULVERT	N/A	
10.393	10.393	SIGN	RIGHT	WARNING, 20 M.P.H.
10.393	10.393	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.427	10.427	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.442	10.442	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.456	10.456	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.583	10.615	PULLOUT	LEFT	
10.619	10.619	SIGN	RIGHT	WARNING, 25 M.P.H.
10.619	10.619	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.675	10.675	CULVERT	N/A	
10.791	10.813	PULLOUT	LEFT	
10.868	10.868	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.918	10.918	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.921	10.921	CULVERT	N/A	
10.921	10.921	SIGN	RIGHT	GUIDE, CHECKERBOARD MESA VIEWPOINT AHEAD
10.921	10.921	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.090	11.090	CULVERT	N/A	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
11.183	11.183	SIGN	RIGHT	REGULATORY, SLOW VEHICLES USE PULLOUTS
11.215	11.215	SIGN	RIGHT	GUIDE, CHECKERBOARD MESA VIEWPOINT
11.238	11.260	CURB	LEFT	
11.241	11.241	DROP INLET	LEFT	
11.245	11.245	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.248	11.249	RETAINING WALL	RIGHT	ZION-0010-11.248-R
11.258	11.258	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.276	11.303	RETAINING WALL	LEFT	ZION-0010-11.276-L
11.281	11.281	INTERSECTION	LEFT	ROUTE 0913 (CHECKERBOARD MESA VIEWPOINT PARKING)
11.299	11.336	GUARD/GUIDE WALL	RIGHT	
11.303	11.339	GUARD/GUIDE WALL	LEFT	
11.306	11.329	BRIDGE	N/A	1590-008 (CO-OP CREEK BRIDGE)
11.336	11.336	DROP INLET	RIGHT	
11.336	11.400	CURB	RIGHT	
11.344	11.344	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.347	11.347	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.350	11.350	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.353	11.353	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.381	11.401	PULLOUT	RIGHT	
11.443	11.443	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.445	11.445	SIGN	RIGHT	GUIDE, BUCKLE UP IT'S THE LAW!
11.467	11.467	SIGN	RIGHT	GUIDE, CHECKERBOARD MESA VIEWPOINT AHEAD
11.486	11.486	INTERSECTION	LEFT	ROUTE 0208 (EAST RIM TRAIL ACCESS)
11.488	11.488	SIGN	RIGHT	GUIDE, TRAILHEAD
11.489	11.489	SIGN	LEFT	GUIDE, TRAILHEAD
11.504	11.504	SIGN	RIGHT	GUIDE, ZION CANYON 11 MI. CAMPGROUNDS VISITOR CENTER 12 MI.
11.524	11.524	INTERSECTION	LEFT	ROUTE 0939 (EAST ENTRANCE STATION PARKING AREA)
11.541	11.549	CURB	LEFT	
11.542	11.542	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) OPPOSITE LANE
11.545	11.557	CURB	LEFT	
11.546	11.546	SIGN	LEFT	REGULATORY, KEEP RIGHT
11.548	11.583	PULLOUT	RIGHT	
11.549	11.549	SIGN	LEFT	GUIDE, RECEIPT MUST BE SHOWN FOR RE-ENTRY

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
11.553	11.553	SIGN	N/A	GUIDE, CAMPGROUNDS FULL
11.555	11.555	SIGN	N/A	REGULATORY, STOP
11.560	11.560	SIGN	N/A	GUIDE, ZION NATIONAL PARK
11.560	11.571	CURB	LEFT	
11.562	11.562	SIGN	LEFT	REGULATORY, STOP
11.566	11.566	SIGN	LEFT	GUIDE, ZION NATIONAL PARK
11.571	11.571	SIGN	LEFT	REGULATORY, KEEP RIGHT
11.573	11.573	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) OPPOSITE LANE
11.586	11.586	SIGN	RIGHT	REGULATORY, NO TRACTOR TRAILERS
11.586	11.586	SIGN	RIGHT	WARNING, UNABLE TO READ FROM VIDEO
11.586	11.586	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
11.590	11.593	RETAINING WALL	LEFT	ZION-0010-11.590-L
11.599	11.599	CULVERT	N/A	
11.601	11.601	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
11.624	11.627	PAVED DITCH	RIGHT	
11.679	11.679	SIGN	RIGHT	GUIDE, CAMP ONLY IN CAMPGROUNDS
11.699	11.699	CULVERT	N/A	
11.743	11.743	SIGN	RIGHT	GUIDE, U.S. FEE AREA
11.743	11.743	SIGN	RIGHT	REGULATORY, SLOW PARK ENTRANCE AHEAD
11.809	11.809	SIGN	RIGHT	GUIDE, DO NOT FEED WILDLIFE
11.837	11.837	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.863	11.863	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.864	11.864	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.907	11.907	CULVERT	N/A	
11.949	11.949	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.985	11.985	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.997	11.997	SIGN	RIGHT	GUIDE, ZION NATIONAL PARK ENTRANCE AHEAD FOR PARK INFORMATION RADIO 1610
12.013	12.013	SIGN	RIGHT	WARNING, UNABLE TO READ FROM VIDEO
12.060	12.060	CULVERT	N/A	
12.109	12.109	SIGN	RIGHT	GUIDE, SPRINGDALE 13 MI.
12.109	12.109	SIGN	RIGHT	GUIDE, WILDLAND FIRE DANGER FIRE DANGER TODAY! PREVENT WILDFIRES
12.132	12.132	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
12.143	12.143	CULVERT	N/A	

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0010: ZION-MT CARMEL HIGHWAY

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
12.165	12.165	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
12.168	12.189	PULLOUT	RIGHT	
12.189	12.189	SIGN	LEFT	GUIDE, LEAVING ZION NATIONAL PARK
12.189	12.189	SIGN	RIGHT	GUIDE, ZION NATIONAL PARK U.S. DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE
12.190	12.208	PULLOUT	LEFT	
12.210	12.210	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
12.250	12.250	INTERSECTION	N/A	ROUTE 5000 (EAST HIGHWAY 9)
12.250	12.250	PARK BOUNDARY	N/A	
12.250	12.250	ROUTE END	N/A	TO BEGINNING OF ROUTE 5000 (EAST HIGHWAY 9) AT EAST PARK BOUNDARY

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.60
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	N/A	GUIDE, VISITOR CENTER CAMPGROUND 1 MI SPRINGDALE 2 MI MT CARMEL JCT 24 MI
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.004	0.004	DROP INLET	RIGHT	
0.014	0.014	SIGN	RIGHT	GUIDE, OTHERS RETURN TO MAIN ROAD
0.014	0.014	SIGN	RIGHT	GUIDE, RED PERMIT REQUIRED
0.016	0.016	SIGN	LEFT	REGULATORY, STOP
0.018	0.018	INTERSECTION	LEFT	ROUTE 0011 (ZION SCENIC CANYON DRIVE) CUT-THRU
0.021	0.021	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.021	0.021	SIGN	RIGHT	REGULATORY, STOP
0.023	0.023	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.026	0.026	SIGN	LEFT	REGULATORY, STOP
0.030	0.030	SIGN	RIGHT	GUIDE, SCENIC DRIVE BY SHUTTLE BUS ONLY
0.031	0.031	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.033	0.033	SIGN	RIGHT	GUIDE, U.S. HWY 89 24 MI VISITOR CENTER 1.5 MI SPRINGDALE 2 MI
0.034	0.091	CURB-AND-GUTTER	LEFT	
0.034	0.034	DROP INLET	RIGHT	
0.037	0.037	INTERSECTION	LEFT	ROUTE 0011 (ZION SCENIC CANYON DRIVE) OPPOSITE LANE
0.037	0.037	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.038	0.038	SIGN	RIGHT	GUIDE, PARUS TRAIL
0.048	0.048	SIGN	RIGHT	GUIDE, CANYON JUNCTION
0.051	0.051	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.052	0.052	DROP INLET	RIGHT	
0.056	0.056	SIGN	LEFT	GUIDE, CANYON JUNCTION
0.057	0.057	SIGN	RIGHT	GUIDE, CANYON JUNCTION
0.072	0.088	CURB-AND-GUTTER	RIGHT	
0.086	0.086	SIGN	LEFT	GUIDE, CANYON JUNCTION
0.086	0.086	SIGN	RIGHT	GUIDE, CANYON JUNCTION
0.091	0.135	CURB	LEFT	
0.098	0.098	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.098	0.098	DROP INLET	LEFT	
0.099	0.099	DROP INLET	RIGHT	
0.100	0.100	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.126	0.126	SIGN	RIGHT	GUIDE, ROAD CLIMBS AHEAD BUSES WILL NOT PASS UNLESS YOU PULL OVER&STOP RIDE IN RIGHT LANE ONLY
0.150	0.150	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.172	0.172	CULVERT	N/A	
0.173	0.173	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.248	0.248	DROP INLET	RIGHT	
0.251	0.251	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.259	0.259	SIGN	RIGHT	WARNING, 25 M.P.H.
0.259	0.259	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.312	0.312	DROP INLET	RIGHT	
0.345	0.345	DROP INLET	RIGHT	
0.345	0.345	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.367	0.367	DROP INLET	RIGHT	
0.368	0.368	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.457	0.457	DROP INLET	RIGHT	
0.458	0.458	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.486	0.486	SIGN	RIGHT	REGULATORY, RED PERMIT REQUIRED ALL OTHERS TURN AROUND 1/4 MILE
0.560	0.560	DROP INLET	RIGHT	
0.561	0.561	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.565	0.565	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.609	0.609	DROP INLET	RIGHT	
0.609	0.609	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.660	0.660	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.660	0.660	DROP INLET	RIGHT	
0.662	0.662	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.693	0.693	DROP INLET	RIGHT	
0.706	0.706	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
0.706	0.706	SIGN	RIGHT	REGULATORY, RED PERMIT REQUIRED ALL OTHERS TURN AROUND HERE
0.707	0.747	PULLOUT	RIGHT	
0.757	0.757	DROP INLET	RIGHT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.757	0.757	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.831	0.831	DROP INLET	RIGHT	
0.831	0.972	GUARD/GUIDE WALL	LEFT	
0.831	0.831	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.877	0.960	RETAINING WALL	LEFT	ZION-0011-0.877-L
0.923	0.923	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
0.969	1.023	PULLOUT	LEFT	
0.972	0.972	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.985	0.985	DROP INLET	RIGHT	
0.987	0.987	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.005	1.005	FIRE HYDRANT	LEFT	
1.013	1.013	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.014	1.014	DROP INLET	RIGHT	
1.035	1.035	SIGN	RIGHT	WARNING, 20 M.P.H.
1.035	1.035	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.044	1.044	SIGN	RIGHT	WARNING, 25 M.P.H.
1.044	1.044	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.051	1.051	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.052	1.052	DROP INLET	RIGHT	
1.115	1.135	RETAINING WALL	LEFT	ZION-0011-1.115-L
1.117	1.140	GUARD/GUIDE WALL	LEFT	
1.122	1.122	CULVERT	N/A	
1.160	1.160	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
1.212	1.212	DROP INLET	RIGHT	
1.213	1.213	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.239	1.239	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.239	1.239	SIGN	RIGHT	WARNING, 25 M.P.H.
1.270	1.292	RETAINING WALL	LEFT	ZION-0011-1.270-L
1.307	1.318	RETAINING WALL	RIGHT	ZION-0011-1.307-R
1.313	1.327	RETAINING WALL	LEFT	ZION-0011-1.313-L
1.316	1.316	CULVERT	N/A	
1.338	1.514	CURB	RIGHT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.371	1.371	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
1.452	1.527	GUARD/GUIDE WALL	LEFT	
1.507	1.524	RETAINING WALL	LEFT	ZION-0011-1.507-L
1.508	1.508	DROP INLET	RIGHT	
1.514	1.600	CURB	RIGHT	
1.586	1.586	SIGN	RIGHT	GUIDE, COURT OF THE PATRIARCHS
1.601	1.601	DROP INLET	RIGHT	
1.604	1.634	CURB	RIGHT	
1.620	1.620	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.643	1.643	INTERSECTION	RIGHT	ROUTE 0915 (COURT OF THE PATRIARCHS PARKING)
1.643	1.643	INTERSECTION	LEFT	ROUTE 0409 (HORSE CORRAL ROAD / BIRCH CREEK ROAD)
1.649	1.669	CURB-AND-GUTTER	RIGHT	
1.657	1.657	INTERSECTION	LEFT	ROUTE 0409 (HORSE CORRAL ROAD / BIRCH CREEK ROAD) SPUR
1.671	1.671	SIGN	LEFT	GUIDE, CANYON JUNCTION
1.672	1.672	INTERSECTION	RIGHT	ROUTE 0915 (COURT OF THE PATRIARCHS PARKING)
1.672	1.672	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
1.673	1.686	CURB-AND-GUTTER	LEFT	
1.681	1.681	CULVERT	N/A	
1.681	1.681	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.731	1.731	SIGN	RIGHT	GUIDE, COURT OF THE PATRIARCHS
1.745	1.745	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.745	1.745	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
1.800	1.800	DROP INLET	RIGHT	
1.801	1.801	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.906	1.906	CULVERT	N/A	
1.924	1.965	PULLOUT	LEFT	
2.273	2.278	RETAINING WALL	LEFT	ZION-0011-2.273-L
2.274	2.274	CULVERT	N/A	
2.274	2.274	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.274	2.280	RETAINING WALL	RIGHT	ZION-0011-2.274-R
2.276	2.276	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.314	2.314	INTERSECTION	RIGHT	ROUTE 0916 (WYLIE PARKING)
2.359	2.359	INTERSECTION	RIGHT	ROUTE 0916 (WYLIE PARKING)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
2.452	2.452	SIGN	RIGHT	GUIDE, ZION LODGE EMPLOYEES ONLY
2.460	2.460	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
2.476	2.476	INTERSECTION	RIGHT	ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD)
2.503	2.503	CULVERT	N/A	
2.552	2.552	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
2.559	2.559	SIGN	RIGHT	GUIDE, HORSE CORRAL
2.625	2.625	SIGN	RIGHT	GUIDE, ZION LODGE GUEST REGISTRATION EMERALD POOLS
2.625	2.625	SIGN	RIGHT	REGULATORY, RED PERMIT PARKING BUS PARKING
2.646	2.646	INTERSECTION	LEFT	ROUTE 0924 (EMERALD POOLS HORSE CORRAL PARKING)
2.646	2.646	INTERSECTION	RIGHT	ROUTE 0917 (ZION LODGE CABIN PARKING)
2.656	2.656	SIGN	RIGHT	WARNING, 25 M.P.H.
2.656	2.656	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.668	2.668	SIGN	RIGHT	GUIDE, EMERALD POOLS HORSE CORRAL GUEST PARKING
2.723	2.723	SIGN	RIGHT	WARNING, 25 M.P.H.
2.723	2.723	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.790	2.790	SIGN	RIGHT	GUIDE, ZION LODGE GUEST REGISTRATION
2.813	2.813	INTERSECTION	RIGHT	ROUTE 0925A (ZION LODGE VISITOR PARKING)
2.822	2.822	SIGN	RIGHT	GUIDE, ZION LODGE
2.823	2.823	SIGN	LEFT	GUIDE, ZION LODGE
2.827	2.827	GATE	N/A	
2.836	2.836	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
2.851	2.851	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
2.851	2.851	SIGN	RIGHT	GUIDE, SPECIAL USE PERMIT REQUIRED ALL OTHERS TURN AROUND 100 FT
2.852	2.852	CULVERT	N/A	
2.883	2.909	PULLOUT	LEFT	
3.118	3.118	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.118	3.124	PAVED DITCH	RIGHT	
3.119	3.119	CULVERT	N/A	
3.122	3.122	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.245	3.245	CULVERT	N/A	
3.246	3.246	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.249	3.249	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
3.322	3.322	SIGN	RIGHT	WARNING, 25 M.P.H.
3.322	3.322	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.349	3.349	INTERSECTION	RIGHT	UNPAVED PARKING
3.361	3.361	SIGN	RIGHT	GUIDE, THE GROTTO WEST RIM TRAIL ANGELS LANDING KAYENTA TRAIL
3.373	3.373	INTERSECTION	RIGHT	ROUTE 0919 (GROTTO PICNIC PARKING)
3.373	3.373	INTERSECTION	LEFT	ROUTE 0918 (WEST RIM TRAILHEAD PARKING)
3.387	3.387	INTERSECTION	RIGHT	ROUTE 0919 (GROTTO PICNIC PARKING)
3.430	3.430	SIGN	RIGHT	WARNING, 25 M.P.H.
3.430	3.430	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.439	3.439	INTERSECTION	RIGHT	ROUTE 0919 (GROTTO PICNIC PARKING)
3.462	3.462	SIGN	RIGHT	GUIDE, THE GROTTO
3.499	3.503	RETAINING WALL	LEFT	ZION-0011-3.499-L
3.501	3.501	CULVERT	N/A	
3.501	3.501	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.505	3.505	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.505	3.510	RETAINING WALL	RIGHT	ZION-0011-3.505-R
3.610	3.610	CULVERT	N/A	
3.610	3.610	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.730	3.730	CULVERT	N/A	
3.733	3.733	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.755	3.755	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.760	3.760	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.765	3.765	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.765	3.802	PULLOUT	LEFT	
3.784	3.894	CURB	RIGHT	
3.811	3.811	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.823	3.823	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.835	3.835	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.857	3.857	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.863	3.863	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.866	3.892	PULLOUT	LEFT	
3.892	3.892	CULVERT	N/A	
3.893	3.893	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
3.896	3.896	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.909	3.909	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.915	3.915	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.921	3.921	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
3.936	3.936	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.958	3.959	PAVED DITCH	RIGHT	
3.959	3.959	CULVERT	N/A	
3.959	3.959	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.990	4.021	PULLOUT	RIGHT	
4.008	4.080	PAVED DITCH	LEFT	
4.024	4.024	CULVERT	N/A	
4.025	4.025	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.080	4.080	DROP INLET	RIGHT	
4.117	4.117	CULVERT	N/A	
4.118	4.118	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.129	4.160	PULLOUT	RIGHT	
4.151	4.151	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
4.181	4.181	CULVERT	N/A	
4.182	4.182	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.183	4.183	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.187	4.189	RETAINING WALL	LEFT	ZION-0011-4.187-L
4.318	4.318	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.318	4.318	CULVERT	N/A	
4.344	4.344	DROP INLET	RIGHT	
4.374	4.374	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.406	4.406	CULVERT	N/A	
4.406	4.406	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.437	4.437	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.512	4.515	GUARD/GUIDE WALL	LEFT	
4.514	4.514	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.514	4.519	GUARD/GUIDE WALL	RIGHT	
4.515	4.523	GUARD/GUIDE RAIL	LEFT	
4.519	4.523	BRIDGE	N/A	1590-009 (CABLE CREEK BRIDGE)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
4.519	4.527	GUARD/GUIDE RAIL	RIGHT	
4.523	4.531	GUARD/GUIDE WALL	LEFT	
4.527	4.532	GUARD/GUIDE WALL	RIGHT	
4.533	4.533	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.537	4.537	SIGN	RIGHT	GUIDE, WEEPING ROCK
4.553	4.568	CURB-AND-GUTTER	LEFT	
4.554	4.579	CURB-AND-GUTTER	RIGHT	
4.555	4.555	SIGN	LEFT	GUIDE, WEEPING ROCK
4.556	4.556	SIGN	RIGHT	GUIDE, WEEPING ROCK
4.566	4.566	SIGN	RIGHT	GUIDE, WEEPING ROCK
4.567	4.567	SIGN	LEFT	GUIDE, WEEPING ROCK
4.581	4.581	INTERSECTION	RIGHT	ROUTE 0920 (WEEPING ROCK PARKING)
4.593	4.593	INTERSECTION	RIGHT	ROUTE 0920 (WEEPING ROCK PARKING)
4.602	4.602	DROP INLET	RIGHT	
4.626	4.626	DROP INLET	RIGHT	
4.639	4.639	SIGN	RIGHT	GUIDE, WEEPING ROCK
4.664	4.664	DROP INLET	RIGHT	
4.693	4.693	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.694	4.694	CULVERT	N/A	
4.699	4.720	PULLOUT	RIGHT	
4.729	4.729	DROP INLET	RIGHT	
4.759	4.759	CULVERT	N/A	
4.760	4.760	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.811	4.815	CURB	LEFT	
4.812	4.812	DROP INLET	LEFT	
4.812	4.812	DROP INLET	RIGHT	
4.821	4.821	INTERSECTION	LEFT	ROUTE 0921 (THE GREAT WHITE THRONE PARKING)
4.823	4.856	CURB	LEFT	
4.858	4.858	DROP INLET	RIGHT	
4.861	4.861	INTERSECTION	LEFT	ROUTE 0921 (THE GREAT WHITE THRONE PARKING)
4.877	4.877	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.888	4.888	SIGN	RIGHT	GUIDE, GREAT WHITE THRONE VIEWPOINT
4.898	4.898	CULVERT	N/A	
4.900	4.900	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
4.902	4.902	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.947	4.947	DROP INLET	RIGHT	
5.006	5.006	CULVERT	N/A	
5.049	5.049	SIGN	RIGHT	GUIDE, BIG BEND
5.068	5.068	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.088	5.088	INTERSECTION	LEFT	ROUTE 0922 (BIG BEND BUS AND TRAILER PARKING)
5.125	5.125	INTERSECTION	LEFT	ROUTE 0922 (BIG BEND BUS AND TRAILER PARKING)
5.132	5.132	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.135	5.135	DROP INLET	RIGHT	
5.153	5.207	PULLOUT	RIGHT	
5.178	5.178	SIGN	RIGHT	GUIDE, BIG BEND
5.214	5.214	CULVERT	N/A	
5.214	5.214	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.222	5.222	SIGN	RIGHT	WARNING, FALLING ROCKS
5.279	5.279	CULVERT	N/A	
5.415	5.415	CULVERT	N/A	
5.416	5.416	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.435	5.435	CULVERT	N/A	
5.436	5.438	RETAINING WALL	LEFT	ZION-0011-5.436-L
5.436	5.436	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.438	5.438	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.468	5.468	CULVERT	N/A	
5.469	5.473	RETAINING WALL	RIGHT	ZION-0011-5.469-R
5.470	5.470	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.470	5.480	RETAINING WALL	LEFT	ZION-0011-5.470-L
5.528	5.531	RETAINING WALL	LEFT	ZION-0011-5.528-L
5.530	5.532	RETAINING WALL	RIGHT	ZION-0011-5.530-R
5.530	5.530	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.531	5.531	CULVERT	N/A	
5.587	5.630	PULLOUT	LEFT	
5.627	5.627	CULVERT	N/A	
5.627	5.627	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.655	5.655	CULVERT	N/A	
5.656	5.656	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0011: ZION SCENIC CANYON DRIVE

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
5.703	5.736	PULLOUT	LEFT	
5.706	5.706	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
5.741	5.741	CULVERT	N/A	
5.776	5.776	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
5.783	5.783	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.816	5.816	CULVERT	N/A	
5.865	5.895	PULLOUT	LEFT	
5.907	5.922	RETAINING WALL	LEFT	ZION-0011-5.907-L
5.916	5.916	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.920	5.969	RETAINING WALL	LEFT	ZION-0011-5.920-L
5.963	5.963	CULVERT	N/A	
5.964	5.964	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.973	5.980	RETAINING WALL	LEFT	ZION-0011-5.973-L
6.008	6.008	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
6.021	6.021	DROP INLET	RIGHT	
6.022	6.022	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.058	6.058	CULVERT	N/A	
6.059	6.059	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.063	6.063	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.069	6.069	SIGN	RIGHT	WARNING, SLOW
6.069	6.069	SIGN	RIGHT	WARNING, 15 M.P.H.
6.113	6.113	CULVERT	N/A	
6.113	6.113	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.115	6.115	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.178	6.178	SIGN	RIGHT	GUIDE, TEMPLE OF SINAWAVA
6.186	6.186	SIGN	RIGHT	REGULATORY, BIKING ZION FOR YOUR SAFETY SHUTTLE BUSES WILL NOT PASS MOVING BICYCLES
6.190	6.190	INTERSECTION	N/A	ROUTE 0923 (TEMPLE OF SINAWAVA PARKING)
6.190	6.190	ROUTE END	N/A	TO ROUTE 0923 (TEMPLE OF SINAWAVA PARKING)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0012: KOLOB TERRACE ROAD SOUTH

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM END OF ROUTE 5005 (KOLOB TERRACE ROAD SOUTH (NON NPS)) AT WEST-SOUTH PARK BOUNDARY
0.000	0.000	PARK BOUNDARY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 5005 (KOLOB TERRACE ROAD SOUTH (NON NPS))
0.009	0.009	SIGN	RIGHT	GUIDE, LEAVING ZION NATIONAL PARK
0.010	0.010	CATTLE GUARD	N/A	
0.036	0.036	SIGN	RIGHT	GUIDE, ZION NATIONAL PARK KOLOB TERRACE
0.053	0.053	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.053	0.053	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.076	0.076	SIGN	RIGHT	GUIDE, BUCKLE UP IT'S THE LAW!
0.094	0.094	CULVERT	N/A	
0.111	0.111	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.215	0.215	SIGN	RIGHT	GUIDE, CAMP ONLY IN CAMPGROUNDS OR BY BACKCOUNTRY PERMIT IN ZION NAT'L PARK
0.421	0.421	SIGN	RIGHT	GUIDE, RIGHT FORK TRAILHEAD
0.450	0.450	INTERSECTION	RIGHT	ROUTE 0947 (RIGHT FORK TRAILHEAD PARKING)
0.500	0.500	SIGN	RIGHT	GUIDE, RIGHT FORK TRAILHEAD
0.520	0.520	CULVERT	N/A	
0.521	0.521	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.522	0.522	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.739	0.739	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.740	0.740	CULVERT	N/A	
0.741	0.741	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.769	0.769	SIGN	RIGHT	GUIDE, GRAPEVINE TRAILHEAD
0.798	0.798	INTERSECTION	RIGHT	ROUTE 0948 (GRAPEVINE TRAILHEAD PARKING)
0.834	0.834	SIGN	RIGHT	GUIDE, GRAPEVINE TRAILHEAD
0.916	0.916	CULVERT	N/A	
1.055	1.055	CULVERT	N/A	
1.056	1.056	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.146	1.146	CULVERT	N/A	
1.149	1.149	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.194	1.194	SIGN	RIGHT	WARNING, 15 M.P.H.
1.194	1.194	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.199	1.199	INTERSECTION	LEFT	ROUTE 0206 (SMITH MESA ROAD)
1.209	1.209	SIGN	LEFT	GUIDE, SMITH MESA KOLOB TERRACE

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0012: KOLOB TERRACE ROAD SOUTH

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
1.336	1.336	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.336	1.336	SIGN	RIGHT	WARNING, 15 M.P.H.
1.680	1.680	SIGN	RIGHT	GUIDE, LEFT FORK TRAILHEAD
1.744	1.744	INTERSECTION	RIGHT	ROUTE 0949 (LEFT FORK TRAILHEAD PARKING)
1.795	1.795	SIGN	RIGHT	GUIDE, LEFT FORK TRAILHEAD
2.209	2.209	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.216	2.216	CULVERT	N/A	
2.219	2.219	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.241	2.241	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.382	2.382	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.388	2.388	CULVERT	N/A	
2.400	2.400	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.405	2.405	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.730	2.730	CULVERT	N/A	
2.858	2.858	CULVERT	N/A	
3.108	3.108	CULVERT	N/A	
3.234	3.234	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.382	3.382	INTERSECTION	RIGHT	UNPAVED ROUTE
3.396	3.396	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.653	3.653	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
3.662	3.662	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
3.669	3.669	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
3.707	3.707	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
4.027	4.027	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.062	4.062	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.062	4.062	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
4.090	4.090	CATTLE GUARD	N/A	
4.090	4.090	INTERSECTION	N/A	ROUTE 5004 (KOLOB TERRACE ROAD NORTH (NON NPS))
4.090	4.090	PARK BOUNDARY	N/A	
4.090	4.090	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.090	4.090	ROUTE END	N/A	TO BEGINNING OF ROUTE 5004 (KOLOB TERRACE ROAD NORTH (NON NPS)) AT WEST-NORTH PARK BOUNDARY

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM I-15 ON AND OFF RAMPS ON THE EAST SIDE
0.000	0.000	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	RIGHT	GUIDE, NORTH
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (KOLOB CANYON ROAD / NON NPS)
0.000	0.000	PARK BOUNDARY	N/A	
0.004	0.004	GATE	N/A	
0.010	0.010	INTERSECTION	RIGHT	UNPAVED ROUTE
0.026	0.026	SIGN	RIGHT	GUIDE, KOLOB CANYONS ZION NATIONAL PARK
0.035	0.035	SIGN	RIGHT	GUIDE, CEDAR CITY
0.050	0.050	INTERSECTION	RIGHT	ROUTE 0926 (KOLOB VISITORS CENTER PARKING)
0.052	0.078	LANE DEVIATION	N/A	
0.057	0.057	SIGN	RIGHT	GUIDE, NO CAMPING
0.057	0.057	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.061	0.061	GATE	N/A	HORIZONTAL AND VERTICAL BARS
0.061	0.061	SIGN	N/A	GUIDE, ZION NATIONAL PARK ENTRANCE FEE REQUIRED PAY OR SHOW PASS AT VISITOR CENTER
0.061	0.061	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.065	0.065	INTERSECTION	LEFT	ROUTE 0410 (KOLOB SERVICE ROAD)
0.076	0.218	CURB	LEFT	
0.130	0.130	INTERSECTION	RIGHT	ROUTE 0926 (KOLOB VISITORS CENTER PARKING)
0.196	0.196	SIGN	RIGHT	GUIDE, BUCKLE UP IT'S THE LAW!
0.220	0.220	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.238	0.238	SIGN	RIGHT	WARNING, ROAD CONDITIONS NEXT 6 MILES ICY SPOTS POSSIBLE SNOW COVERED & IEY
0.246	0.246	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.250	0.250	CULVERT	N/A	
0.252	0.284	CURB	RIGHT	
0.253	0.286	PULLOUT	RIGHT	
0.285	0.285	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.291	0.350	GUARD/GUIDE WALL	LEFT	
0.293	0.293	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.334	0.334	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.335	0.335	CULVERT	N/A	
0.386	0.439	CURB	LEFT	
0.387	0.440	PULLOUT	LEFT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.391	0.509	CURB	RIGHT	
0.416	0.416	CULVERT	N/A	
0.436	0.436	SIGN	RIGHT	WARNING, FALLING ROCK
0.436	0.436	GATE	N/A	
0.440	0.440	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.440	0.440	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.557	0.557	CULVERT	N/A	
0.567	0.604	CURB	RIGHT	
0.580	0.687	CURB	LEFT	
0.581	0.726	GUARD/GUIDE WALL	LEFT	
0.604	0.604	DROP INLET	RIGHT	
0.710	0.710	DROP INLET	RIGHT	
0.720	0.726	CURB	RIGHT	
0.736	0.784	GUARD/GUIDE RAIL	LEFT	
0.756	0.842	CURB	RIGHT	
0.784	0.784	DROP INLET	RIGHT	
0.784	0.784	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.791	0.802	GUARD/GUIDE WALL	LEFT	
0.804	0.871	CURB	LEFT	
0.804	0.871	PULLOUT	LEFT	
0.805	0.805	SIGN	RIGHT	WARNING, FALLING ROCKS
0.848	0.886	CURB	RIGHT	
0.888	0.889	GUARD/GUIDE WALL	RIGHT	
0.890	0.890	CULVERT	N/A	
0.896	0.982	CURB	RIGHT	
0.919	0.919	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.930	0.930	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.937	0.937	DROP INLET	RIGHT	
0.937	0.937	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.958	0.979	CURB	LEFT	
0.986	0.987	GUARD/GUIDE WALL	RIGHT	
0.988	0.988	CULVERT	N/A	
0.988	0.988	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.996	1.063	CURB	RIGHT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.999	1.036	CURB	LEFT	
1.042	1.259	GUARD/GUIDE WALL	LEFT	
1.065	1.065	DROP INLET	RIGHT	
1.074	1.100	CURB	RIGHT	
1.110	1.111	GUARD/GUIDE WALL	RIGHT	
1.124	1.124	CULVERT	N/A	
1.131	1.153	CURB	RIGHT	
1.141	1.167	CURB	LEFT	
1.172	1.172	CULVERT	N/A	
1.173	1.236	CURB	LEFT	
1.185	1.221	CURB	RIGHT	
1.222	1.223	GUARD/GUIDE WALL	RIGHT	
1.224	1.224	CULVERT	N/A	
1.226	1.226	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.256	1.284	CURB	RIGHT	
1.259	1.307	CURB	LEFT	
1.259	1.300	PULLOUT	LEFT	
1.293	1.293	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.294	1.294	CULVERT	N/A	
1.295	1.295	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.299	1.303	CURB	RIGHT	
1.301	1.414	GUARD/GUIDE WALL	LEFT	
1.313	1.352	CURB	RIGHT	
1.395	1.420	CURB	RIGHT	
1.444	1.444	CULVERT	N/A	
1.451	1.477	GUARD/GUIDE RAIL	LEFT	
1.452	1.494	CURB	RIGHT	
1.486	1.565	GUARD/GUIDE WALL	LEFT	
1.541	1.591	GUARD/GUIDE WALL	RIGHT	
1.553	1.553	CULVERT	N/A	
1.572	1.667	CURB	LEFT	
1.582	1.582	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.632	1.632	DROP INLET	RIGHT	
1.633	1.633	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
1.634	1.634	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.636	1.679	CURB	RIGHT	
1.679	1.679	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.680	1.680	DROP INLET	RIGHT	
1.681	1.681	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.686	1.703	CURB	RIGHT	
1.707	1.707	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.708	1.708	DROP INLET	RIGHT	
1.709	1.709	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.713	1.738	CURB	RIGHT	
1.738	1.738	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.742	1.742	CULVERT	N/A	
1.743	1.743	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.769	1.769	DROP INLET	RIGHT	
1.773	1.773	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.779	1.842	CURB	RIGHT	
1.810	1.810	DROP INLET	RIGHT	
1.810	1.810	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.811	1.811	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.839	1.839	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.842	1.842	DROP INLET	RIGHT	
1.846	1.952	CURB	RIGHT	
1.853	1.912	PULLOUT	LEFT	
1.862	1.912	CURB	LEFT	
1.915	1.915	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.916	1.916	DROP INLET	RIGHT	
1.936	2.004	PULLOUT	LEFT	
1.951	2.009	CURB	LEFT	
1.990	2.007	CURB	RIGHT	
1.993	1.993	SIGN	RIGHT	GUIDE, TAYLOR CREEK TRAILHEAD
2.013	2.013	CULVERT	N/A	
2.013	2.014	GUARD/GUIDE WALL	RIGHT	
2.018	2.018	INTERSECTION	LEFT	ROUTE 0927 (TAYLOR CREEK TRAILHEAD PARKING)
2.021	2.067	CURB-AND-GUTTER	LEFT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
2.027	2.067	CURB	RIGHT	
2.073	2.073	INTERSECTION	LEFT	ROUTE 0927 (TAYLOR CREEK TRAILHEAD PARKING)
2.078	2.078	CULVERT	N/A	
2.082	2.097	CURB	RIGHT	
2.098	2.098	CULVERT	N/A	
2.102	2.120	CURB	RIGHT	
2.105	2.105	SIGN	RIGHT	GUIDE, TAYLOR CREEK TRAILHEAD
2.122	2.122	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
2.122	2.122	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
2.122	2.122	GATE	N/A	HORIZONTAL AND VERTICAL BARS
2.122	2.122	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
2.128	2.128	CULVERT	N/A	
2.139	2.274	CURB	RIGHT	
2.162	2.162	DROP INLET	RIGHT	
2.294	2.294	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.296	2.362	CURB	RIGHT	
2.325	2.357	PULLOUT	LEFT	
2.327	2.354	CURB	LEFT	
2.380	2.380	DROP INLET	RIGHT	
2.384	2.458	CURB	RIGHT	
2.457	2.457	DROP INLET	RIGHT	
2.458	2.458	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.459	2.575	CURB	LEFT	
2.460	2.460	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.461	2.497	CURB	RIGHT	
2.504	2.504	CULVERT	N/A	
2.506	2.506	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.539	2.539	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.539	2.590	PULLOUT	RIGHT	
2.540	2.540	CULVERT	N/A	
2.551	2.640	CURB	RIGHT	
2.676	2.676	CULVERT	N/A	
2.710	2.750	CURB	LEFT	
2.722	2.722	CULVERT	N/A	



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.727	2.808	CURB	RIGHT	
2.730	2.753	PULLOUT	LEFT	
2.808	2.808	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.810	2.810	CULVERT	N/A	
2.813	2.813	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.835	2.849	CURB	RIGHT	
2.889	2.976	CURB	LEFT	
2.961	2.971	CURB	RIGHT	
2.973	2.999	GUARD/GUIDE RAIL	RIGHT	
2.978	2.978	CULVERT	N/A	
2.979	2.999	GUARD/GUIDE RAIL	LEFT	
3.000	3.179	CURB	RIGHT	
3.001	3.057	PULLOUT	RIGHT	
3.034	3.057	CURB	LEFT	
3.047	3.047	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.072	3.072	CULVERT	N/A	
3.086	3.181	PULLOUT	RIGHT	
3.090	3.146	CURB	LEFT	
3.165	3.382	CURB	LEFT	
3.186	3.186	CULVERT	N/A	
3.188	3.189	GUARD/GUIDE WALL	LEFT	
3.197	3.197	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.220	3.220	SIGN	RIGHT	GUIDE, PARKING AHEAD
3.226	3.226	CULVERT	N/A	
3.228	3.229	GUARD/GUIDE WALL	LEFT	
3.235	3.235	INTERSECTION	RIGHT	ROUTE 0928 (SOUTH FORK PARKING AREA)
3.241	3.286	CURB-AND-GUTTER	RIGHT	
3.291	3.291	INTERSECTION	RIGHT	ROUTE 0928 (SOUTH FORK PARKING AREA)
3.298	3.323	CURB	RIGHT	
3.299	3.299	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
3.299	3.299	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
3.299	3.299	GATE	N/A	HORIZONTAL AND VERTICAL BARS
3.299	3.299	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
3.323	3.402	GUARD/GUIDE RAIL	RIGHT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
3.325	3.389	PULLOUT	LEFT	
3.372	3.372	CULVERT	N/A	
3.404	3.462	CURB	RIGHT	
3.433	3.433	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.466	3.466	CULVERT	N/A	
3.468	3.468	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.475	3.475	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.483	3.483	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.553	3.674	CURB	RIGHT	
3.592	3.592	CULVERT	N/A	
3.592	3.592	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
3.619	3.619	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.682	3.682	CULVERT	N/A	
3.685	3.685	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.704	3.720	CURB	RIGHT	
3.729	3.729	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.752	3.794	CURB	RIGHT	
3.766	3.766	DROP INLET	LEFT	
3.774	3.876	CURB	LEFT	
3.794	3.794	SIGN	RIGHT	WARNING, FALLING ROCKS
3.831	3.831	SIGN	RIGHT	GUIDE, TRAIL
3.839	3.839	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.852	3.852	SIGN	RIGHT	GUIDE, LEE PASS TRAILHEAD ELEV. 6080 FT.
3.865	3.932	CURB	RIGHT	
3.872	3.872	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.907	3.907	INTERSECTION	LEFT	ROUTE 0929 (LEE PASS TRAILHEAD PARKING)
3.939	3.939	CULVERT	N/A	
3.943	3.968	GUARD/GUIDE WALL	LEFT	
3.948	3.948	SIGN	RIGHT	GUIDE, LEE PASS TRAILHEAD ELEV.
3.961	3.989	CURB	RIGHT	
3.979	4.059	PULLOUT	LEFT	
3.981	4.037	CURB	LEFT	
4.032	4.038	CURB	RIGHT	
4.034	4.034	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.039	4.039	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.041	4.041	DROP INLET	RIGHT	
4.044	4.096	CURB	RIGHT	
4.047	4.057	CURB	LEFT	
4.064	4.159	GUARD/GUIDE WALL	LEFT	
4.103	4.103	CULVERT	N/A	
4.128	4.208	CURB	RIGHT	
4.163	4.170	RETAINING WALL	LEFT	ZION-0013-4.163-L
4.164	4.166	RETAINING WALL	RIGHT	ZION-0013-4.164-R
4.178	4.246	CURB	LEFT	
4.191	4.191	DROP INLET	RIGHT	
4.211	4.211	CULVERT	N/A	
4.212	4.258	CURB	RIGHT	
4.247	4.265	GUARD/GUIDE WALL	LEFT	
4.256	4.256	DROP INLET	RIGHT	
4.267	4.298	CURB	LEFT	
4.271	4.301	PULLOUT	LEFT	
4.315	4.319	RETAINING WALL	RIGHT	ZION-0013-4.315-R
4.318	4.340	GUARD/GUIDE WALL	LEFT	
4.319	4.327	GUARD/GUIDE WALL	LEFT	
4.320	4.321	GUARD/GUIDE WALL	RIGHT	
4.321	4.321	CULVERT	N/A	
4.325	4.339	CURB	LEFT	
4.327	4.327	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.339	4.379	PULLOUT	LEFT	
4.342	4.418	CURB	LEFT	
4.418	4.423	PAVED DITCH	LEFT	
4.428	4.452	GUARD/GUIDE WALL	LEFT	
4.445	4.445	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.446	4.446	DROP INLET	RIGHT	
4.488	4.488	INTERSECTION	LEFT	ROUTE 0943 (UPPER LEE PASS PARKING)
4.514	4.514	CULVERT	N/A	
4.515	4.516	GUARD/GUIDE WALL	RIGHT	
4.523	4.675	GUARD/GUIDE WALL	LEFT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
4.530	4.623	CURB	RIGHT	
4.570	4.570	CULVERT	N/A	
4.631	4.632	GUARD/GUIDE WALL	RIGHT	
4.640	4.640	CULVERT	N/A	
4.659	4.696	CURB	RIGHT	
4.684	4.803	CURB	LEFT	
4.744	4.744	CULVERT	N/A	
4.750	4.751	GUARD/GUIDE WALL	RIGHT	
4.765	4.786	CURB	RIGHT	
4.793	4.793	CULVERT	N/A	
4.797	4.936	CURB	RIGHT	
4.811	4.820	GUARD/GUIDE WALL	LEFT	
4.824	4.888	PULLOUT	LEFT	
4.824	4.885	CURB	LEFT	
4.857	4.857	DROP INLET	RIGHT	
4.901	4.964	GUARD/GUIDE WALL	LEFT	
4.940	4.940	CULVERT	N/A	
4.940	4.952	GUARD/GUIDE WALL	RIGHT	
4.956	4.956	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.966	4.975	CURB	RIGHT	
4.977	5.215	CURB	LEFT	
4.977	5.028	PULLOUT	LEFT	
5.000	5.005	CURB	RIGHT	
5.005	5.005	CULVERT	N/A	
5.018	5.018	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.019	5.020	GUARD/GUIDE WALL	RIGHT	
5.040	5.059	CURB	RIGHT	
5.062	5.062	CULVERT	N/A	
5.070	5.148	CURB	RIGHT	
5.074	5.135	PULLOUT	LEFT	
5.155	5.169	GUARD/GUIDE WALL	RIGHT	
5.158	5.158	CULVERT	N/A	
5.174	5.191	PULLOUT	LEFT	
5.176	5.232	CURB	RIGHT	

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0013: KOLOB CANYON ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
5.224	5.224	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.236	5.236	CULVERT	N/A	
5.239	5.239	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.256	5.256	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.267	5.267	SIGN	RIGHT	WARNING, PEDESTRIAN TRAFFIC SLOW DOWN 15 MPH
5.271	5.319	CURB	RIGHT	
5.273	5.273	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.287	5.287	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.296	5.296	DROP INLET	RIGHT	
5.311	5.311	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
5.319	5.320	CURB	RIGHT	
5.320	5.320	INTERSECTION	N/A	ROUTE 0930 (KOLOB CANYON OVERLOOK PARKING)
5.320	5.320	CULVERT	N/A	
5.320	5.320	ROUTE END	N/A	TO ROUTE 0930 (KOLOB CANYON OVERLOOK PARKING)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0014: KOLOB TERRACE ROAD NORTH

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM END OF ROUTE 5004 (KOLOB TERRACE ROAD NORTH (NON NPS)) AT WEST PARK BOUNDARY
0.000	0.000	INTERSECTION	N/A	ROUTE 5004 (KOLOB TERRACE ROAD NORTH (NON NPS))
0.000	0.000	PARK BOUNDARY	N/A	
0.011	0.011	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.243	0.243	SIGN	RIGHT	GUIDE, HOP VALLEY TRAILHEAD
0.276	0.276	INTERSECTION	LEFT	ROUTE 0950 (HOP VALLEY TRAILHEAD PARKING)
0.302	0.302	SIGN	RIGHT	GUIDE, HOP VALLEY TRAILHEAD
0.475	0.475	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.480	0.480	CULVERT	N/A	
0.489	0.489	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.630	0.630	INTERSECTION	LEFT	UNPAVED ROUTE (GATED)
0.800	0.800	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.800	0.800	CULVERT	N/A	
0.802	0.802	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.863	0.863	INTERSECTION	RIGHT	UNPAVED ROUTE (GATED)
0.927	0.927	INTERSECTION	LEFT	UNPAVED ROUTE
1.093	1.093	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
1.328	1.328	CULVERT	N/A	
1.640	1.640	CULVERT	N/A	
1.710	1.710	INTERSECTION	LEFT	UNPAVED ROUTE (PRIVATE ACCESS)
1.711	1.711	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
1.711	1.711	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
1.822	1.822	CULVERT	N/A	
2.005	2.005	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.017	2.017	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.017	2.017	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.020	2.020	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.023	2.023	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
2.024	2.024	CULVERT	N/A	
2.027	2.027	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.051	2.051	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.051	2.051	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.074	2.074	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0014: KOLOB TERRACE ROAD NORTH

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
2.074	2.074	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.130	2.130	CULVERT	N/A	
2.233	2.233	SIGN	RIGHT	WARNING, 5 M.P.H.
2.233	2.233	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.308	2.326	PULLOUT	LEFT	
2.313	2.313	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.314	2.314	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.316	2.316	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.317	2.317	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.322	2.322	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.322	2.322	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.429	2.429	CULVERT	N/A	
2.474	2.474	CULVERT	N/A	
2.632	2.632	CULVERT	N/A	
2.941	2.941	CULVERT	N/A	
3.179	3.179	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
3.183	3.183	INTERSECTION	RIGHT	ROUTE 0952 (WILDCAT CANYON TRAILHEAD PARKING)
3.191	3.191	SIGN	RIGHT	GUIDE, WILDCAT TRAILHEAD
3.295	3.295	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.334	3.334	CULVERT	N/A	
3.352	3.352	INTERSECTION	LEFT	ROUTE 0951 (PICNIC AREA PARKING)
3.367	3.367	INTERSECTION	LEFT	ROUTE 0951 (PICNIC AREA PARKING)
3.796	3.796	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
4.080	4.080	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
4.108	4.108	GATE	N/A	HORIZONTAL AND DIAGONAL BARS
4.108	4.108	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
4.108	4.108	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
4.141	4.141	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.230	4.230	CULVERT	N/A	
4.470	4.470	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.511	4.511	CULVERT	N/A	
4.649	4.649	CULVERT	N/A	
4.756	4.756	SIGN	RIGHT	WARNING, 20 M.P.H.
4.756	4.756	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0014: KOLOB TERRACE ROAD NORTH

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
4.836	4.836	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
4.836	4.836	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.841	4.841	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.841	4.841	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
4.846	4.846	CULVERT	N/A	
4.856	4.856	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.858	4.858	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
4.864	4.864	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
4.864	4.864	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.956	4.956	CULVERT	N/A	
4.959	4.959	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.055	5.055	SIGN	RIGHT	WARNING, 20 M.P.H.
5.055	5.055	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.433	5.433	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.488	5.488	CULVERT	N/A	
5.629	5.629	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
5.800	5.800	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
5.850	5.850	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.878	5.878	CATTLE GUARD	N/A	
5.880	5.880	INTERSECTION	N/A	ROUTE 5003 (UPPER KOLOB PLATEAU)
5.880	5.880	SIGN	RIGHT	GUIDE, LEAVING ZION NATIONAL PARK
5.880	5.880	PARK BOUNDARY	N/A	
5.880	5.880	ROUTE END	N/A	TO BEGINNING OF ROUTE 5003 (UPPER KOLOB PLATEAU) AT NORTH PARK BOUNDARY



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0200: SOUTH CAMPGROUND OUTER LOOP

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.46 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.007	0.007	SIGN	RIGHT	GUIDE, SOUTH CAMPGROUND FULL
0.008	0.008	GATE	N/A	
0.023	0.023	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.036	0.036	INTERSECTION	LEFT	ROUTE 0906 (ZION NATURE CENTER PARKING)
0.047	0.047	SIGN	RIGHT	REGULATORY, STOP
0.057	0.063	CURB	LEFT	
0.058	0.058	SIGN	LEFT	GUIDE, FULL
0.058	0.058	SIGN	LEFT	GUIDE, SELF REGISTER PAY CAMPING FEE AHEAD
0.063	0.063	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.070	0.070	SIGN	RIGHT	WARNING, SLOW CHILDREN PLAYING
0.070	0.070	SIGN	RIGHT	WARNING, 10 M.P.H.
0.071	0.071	INTERSECTION	LEFT	ROUTE 0905 (SOUTH CAMPGROUND DUMP STATION)
0.076	0.076	SIGN	RIGHT	GUIDE, WOOD GATHERING PROHIBITED
0.077	0.077	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.085	0.085	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.097	0.097	INTERSECTION	LEFT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.099	0.099	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.103	0.103	SIGN	LEFT	GUIDE, GENERATORS ALLOWED 8 AM-10 AM& 6 PM-8 PM
0.103	0.103	SIGN	LEFT	GUIDE, STOP-FREE AREA CAMPING REGISTRATION
0.110	0.110	INTERSECTION	LEFT	ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)
0.115	0.115	SIGN	RIGHT	GUIDE, CAMPGROUND HOST
0.119	0.119	INTERSECTION	LEFT	ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)
0.119	0.860	ONE-WAY	N/A	
0.124	0.124	SIGN	LEFT	WARNING, 10 M.P.H.
0.124	0.124	SIGN	LEFT	GUIDE, ONE WAY TRAFFIC ONLY SITES 01-35 76-124
0.145	0.145	INTERSECTION	LEFT	ROUTE 0200BZ (SOUTH CAMPGROUND INSIDE ROAD B)
0.167	0.167	CULVERT	N/A	
0.174	0.174	CULVERT	N/A	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0200: SOUTH CAMPGROUND OUTER LOOP

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.204	0.204	CULVERT	N/A	
0.212	0.212	INTERSECTION	LEFT	ROUTE 0200AZ (SOUTH CAMPGROUND INSIDE ROAD A)
0.229	0.229	CULVERT	N/A	
0.238	0.238	CULVERT	N/A	
0.280	0.280	CULVERT	N/A	
0.310	0.310	CULVERT	N/A	
0.318	0.318	INTERSECTION	LEFT	ROUTE 0200AZ (SOUTH CAMPGROUND INSIDE ROAD A)
0.324	0.324	CULVERT	N/A	
0.348	0.348	CULVERT	N/A	
0.360	0.360	CULVERT	N/A	
0.363	0.363	INTERSECTION	LEFT	ROUTE 0200AZ (SOUTH CAMPGROUND INSIDE ROAD A)
0.370	0.370	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.370	0.370	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.372	0.372	CULVERT	N/A	
0.376	0.376	INTERSECTION	LEFT	ROUTE 0200CZ (SOUTH CAMPGROUND INSIDE ROAD C)
0.388	0.388	CULVERT	N/A	
0.454	0.454	INTERSECTION	LEFT	ROUTE 0200DZ (SOUTH CAMPGROUND INSIDE ROAD D)
0.457	0.457	SIGN	LEFT	GUIDE, ONE WAY TRAFFIC ONLY SITES 64-67 68-75
0.470	0.470	CULVERT	N/A	
0.485	0.485	SIGN	RIGHT	REGULATORY, NO PARKING
0.486	0.486	CULVERT	N/A	
0.506	0.506	CULVERT	N/A	
0.526	0.526	CULVERT	N/A	
0.534	0.534	CULVERT	N/A	
0.545	0.545	INTERSECTION	LEFT	ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)
0.548	0.548	CULVERT	N/A	
0.549	0.549	SIGN	LEFT	GUIDE, ONE WAY TRAFFIC ONLY SITES 76-124 EXIT
0.560	0.560	CULVERT	N/A	
0.562	0.562	INTERSECTION	LEFT	ROUTE 0200IZ (SOUTH CAMPGROUND INSIDE ROAD I)
0.568	0.568	SIGN	LEFT	GUIDE, ONE WAY TRAFFIC ONLY SITES 77-124 EXIT
0.570	0.570	CULVERT	N/A	
0.588	0.588	CULVERT	N/A	
0.596	0.596	CULVERT	N/A	
0.604	0.604	CULVERT	N/A	

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200: SOUTH CAMPGROUND OUTER LOOP

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.620	0.620	CULVERT	N/A	
0.632	0.632	CULVERT	N/A	
0.656	0.656	SIGN	RIGHT	REGULATORY, NO PARKING
0.670	0.670	INTERSECTION	LEFT	ROUTE 0200GZ (SOUTH CAMPGROUND INSIDE ROAD G)
0.672	0.672	CULVERT	N/A	
0.675	0.675	SIGN	LEFT	GUIDE, ONE WAY TRAFFIC ONLY SITES 86-89 EXIT
0.682	0.682	INTERSECTION	LEFT	ROUTE 0200HZ (SOUTH CAMPGROUND INSIDE ROAD H)
0.685	0.685	SIGN	LEFT	GUIDE, ONE WAY TRAFFIC ONLY SITES 103-113 114-124
0.690	0.690	CULVERT	N/A	
0.695	0.695	SIGN	LEFT	REGULATORY, NO PARKING
0.717	0.717	CULVERT	N/A	
0.764	0.764	CULVERT	N/A	
0.778	0.778	CULVERT	N/A	
0.794	0.794	CULVERT	N/A	
0.805	0.805	INTERSECTION	LEFT	ROUTE 0200HZ (SOUTH CAMPGROUND INSIDE ROAD H)
0.812	0.812	CULVERT	N/A	
0.816	0.816	INTERSECTION	LEFT	ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)
0.860	0.860	INTERSECTION	LEFT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.860	0.860	INTERSECTION	RIGHT	ROUTE 0905 (SOUTH CAMPGROUND DUMP STATION)
0.860	0.860	ROUTE END	N/A	TO END OF THE LOOP

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200AZ: SOUTH CAMPGROUND INSIDE ROAD A

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.32 ON LEFT
0.000	0.130	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.002	0.002	CULVERT	N/A	
0.004	0.004	SIGN	RIGHT	GUIDE, ONE WAY TRAFFIC ONLY SITES 06-12 13-22
0.042	0.042	CULVERT	N/A	
0.080	0.080	CULVERT	N/A	
0.093	0.093	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.107	0.107	INTERSECTION	LEFT	ROUTE 0200BZ (SOUTH CAMPGROUND INSIDE ROAD B)
0.130	0.130	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.130	0.130	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.130	0.130	ROUTE END	N/A	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.36 ON LEFT

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200BZ: SOUTH CAMPGROUND INSIDE ROAD B

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.15 ON LEFT
0.000	0.150	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.002	0.002	CULVERT	N/A	
0.006	0.006	SIGN	RIGHT	GUIDE, ONE WAY TRAFFIC ONLY SITES 03-22 23-35
0.012	0.012	CULVERT	N/A	
0.026	0.026	CULVERT	N/A	
0.038	0.038	CULVERT	N/A	
0.042	0.042	CULVERT	N/A	
0.096	0.096	CULVERT	N/A	
0.135	0.135	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.140	0.140	CULVERT	N/A	
0.149	0.149	INTERSECTION	RIGHT	ROUTE 0200AZ (SOUTH CAMPGROUND INSIDE ROAD A)
0.150	0.150	INTERSECTION	LEFT	ROUTE 0200AZ (SOUTH CAMPGROUND INSIDE ROAD A)
0.150	0.150	ROUTE END	N/A	TO ROUTE 0200AZ (SOUTH CAMPGROUND INSIDE ROAD A)

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200CZ: SOUTH CAMPGROUND INSIDE ROAD C

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)
0.000	0.170	ONE-WAY	N/A	
0.002	0.002	CULVERT	N/A	
0.005	0.005	SIGN	LEFT	GUIDE, SITES 36-75
0.012	0.012	CULVERT	N/A	
0.050	0.050	CULVERT	N/A	
0.104	0.104	CULVERT	N/A	
0.170	0.170	SIGN	N/A	GUIDE, ONE WAY TRAFFIC ONLY SITES 58-75 EXIT
0.170	0.170	INTERSECTION	LEFT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.170	0.170	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.170	0.170	ROUTE END	N/A	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.38 ON LEFT

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200DZ: SOUTH CAMPGROUND INSIDE ROAD D

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.45 ON LEFT
0.000	0.090	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.039	0.039	CULVERT	N/A	
0.046	0.046	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.047	0.047	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.065	0.065	CULVERT	N/A	
0.076	0.076	CULVERT	N/A	
0.081	0.081	CULVERT	N/A	
0.088	0.088	SIGN	RIGHT	GUIDE, ONE WAY TRAFFIC ONLY SITES 76-124 EXIT
0.090	0.090	INTERSECTION	LEFT	ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)
0.090	0.090	INTERSECTION	RIGHT	ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)
0.090	0.090	ROUTE END	N/A	TO ROUTE 0200EZ (SOUTH CAMPGROUND INSIDE ROAD E)

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200EZ: SOUTH CAMPGROUND INSIDE ROAD E

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.12 ON LEFT
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.007	0.007	INTERSECTION	RIGHT	ROUTE 0200CZ (SOUTH CAMPGROUND INSIDE ROAD C)
0.019	0.019	INTERSECTION	RIGHT	ROUTE 0200DZ (SOUTH CAMPGROUND INSIDE ROAD D)
0.019	0.050	ONE-WAY	N/A	
0.021	0.021	SIGN	RIGHT	GUIDE, DO NOT ENTER
0.028	0.028	CULVERT	N/A	
0.036	0.036	CULVERT	N/A	
0.050	0.050	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.050	0.050	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.050	0.050	ROUTE END	N/A	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.55 ON LEFT



## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200FZ: SOUTH CAMPGROUND INSIDE ROAD F

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.11 ON LEFT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.120	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.002	0.002	CULVERT	N/A	
0.004	0.004	SIGN	RIGHT	GUIDE, ONE WAY TRAFFIC ONLY SITES 90-101
0.046	0.046	CULVERT	N/A	
0.062	0.062	CULVERT	N/A	
0.073	0.073	INTERSECTION	RIGHT	ROUTE 0200IZ (SOUTH CAMPGROUND INSIDE ROAD I)
0.091	0.091	INTERSECTION	RIGHT	ROUTE 0200GZ (SOUTH CAMPGROUND INSIDE ROAD G)
0.092	0.092	CULVERT	N/A	
0.092	0.092	SIGN	RIGHT	GUIDE, EXIT
0.104	0.104	CULVERT	N/A	
0.116	0.116	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.120	0.120	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.120	0.120	ROUTE END	N/A	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.82 ON LEFT

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200GZ: SOUTH CAMPGROUND INSIDE ROAD G

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.67 ON LEFT
0.000	0.060	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.002	0.002	SIGN	RIGHT	GUIDE, ONE WAY TRAFFIC ONLY SITES 86-89 EXIT
0.014	0.014	CULVERT	N/A	
0.025	0.025	CULVERT	N/A	
0.030	0.030	CULVERT	N/A	
0.039	0.039	SIGN	LEFT	REGULATORY, NO PARKING
0.047	0.047	CULVERT	N/A	
0.060	0.060	INTERSECTION	N/A	ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)
0.060	0.060	INTERSECTION	LEFT	ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)
0.060	0.060	ROUTE END	N/A	TO ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200HZ: SOUTH CAMPGROUND INSIDE ROAD H

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.68 ON LEFT
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.090	ONE-WAY	N/A	
0.002	0.002	CULVERT	N/A	
0.022	0.022	CULVERT	N/A	
0.054	0.054	CULVERT	N/A	
0.062	0.062	CULVERT	N/A	
0.078	0.078	CULVERT	N/A	
0.090	0.090	INTERSECTION	LEFT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.090	0.090	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.090	0.090	ROUTE END	N/A	TO ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.81 ON LEFT

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0200IZ: SOUTH CAMPGROUND INSIDE ROAD I

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP) AT MP 0.56 ON LEFT
0.000	0.040	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	LEFT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (SOUTH CAMPGROUND OUTER LOOP)
0.028	0.028	CULVERT	N/A	
0.040	0.040	INTERSECTION	LEFT	ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)
0.040	0.040	INTERSECTION	N/A	ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)
0.040	0.040	ROUTE END	N/A	TO ROUTE 0200FZ (SOUTH CAMPGROUND INSIDE ROAD F)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202: WATCHMAN CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.19 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.011	0.011	SIGN	RIGHT	GUIDE, PARK IN SPRINGDALE
0.011	0.011	SIGN	RIGHT	GUIDE, VISITOR CENTER PARKING LOT FULL
0.022	0.022	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) SPUR
0.035	0.035	SIGN	RIGHT	GUIDE, WATCHMAN CAMPGROUND
0.047	0.047	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.047	0.047	SIGN	RIGHT	WARNING, 15 M.P.H.
0.071	0.071	SIGN	RIGHT	GUIDE, PARUS TRAIL BICYCLES
0.076	0.076	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.076	0.076	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.077	0.077	SIGN	RIGHT	GUIDE, VISITOR CENTER SHUTTLE
0.081	0.081	SIGN	RIGHT	GUIDE, PARUS TRAIL BICYCLES
0.090	0.090	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.090	0.109	GUARD/GUIDE RAIL	RIGHT	
0.092	0.110	GUARD/GUIDE RAIL	LEFT	
0.092	0.108	BRIDGE	N/A	1590-001 (WATCHMAN CAMPGROUND BRIDGE)
0.109	0.156	CURB	RIGHT	
0.110	0.110	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.111	0.117	CURB	LEFT	
0.112	0.112	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.113	0.113	SIGN	RIGHT	GUIDE, WATCHMAN TRAIL
0.118	0.118	DROP INLET	RIGHT	
0.120	0.120	INTERSECTION	LEFT	ROUTE 0901 (EMPLOYEE VISITOR CENTER PARKING)
0.121	0.121	SIGN	RIGHT	REGULATORY, EMPLOYEE PARKING ONLY
0.126	0.126	SIGN	LEFT	REGULATORY, EMPLOYEE PARKING ONLY
0.126	0.147	CURB	LEFT	
0.132	0.132	SIGN	RIGHT	WARNING, 15 M.P.H.
0.132	0.132	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.147	0.147	SIGN	RIGHT	REGULATORY, EMPLOYEE PARKING ONLY

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202: WATCHMAN CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.151	0.151	INTERSECTION	LEFT	ROUTE 0901 (EMPLOYEE VISITOR CENTER PARKING)
0.157	0.157	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.166	0.166	INTERSECTION	LEFT	ROUTE 0207 (WATCHMAN TRAIL ROAD)
0.166	0.166	INTERSECTION	RIGHT	ROUTE 0937 (ZION CANYON VISITOR CENTER SHUTTLE BUS PARKING)
0.183	0.183	DROP INLET	LEFT	
0.191	0.191	SIGN	RIGHT	GUIDE, ZION CANYON VISITOR CENTER
0.195	0.195	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
0.198	0.198	SIGN	LEFT	GUIDE, VISITOR CENTER & SHUTTLE PARKING WATCHMAN CAMPGROUND
0.200	0.200	INTERSECTION	RIGHT	ROUTE 0902 (VISITOR CENTER PARKING)
0.234	0.234	SIGN	N/A	REGULATORY, DO NOT ENTER
0.234	0.234	GATE	N/A	
0.249	0.249	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.283	0.283	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.302	0.302	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.302	0.302	SIGN	RIGHT	WARNING, SPEED BUMP AHEAD
0.306	0.306	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.310	0.310	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.320	0.322	CURB	LEFT	
0.320	0.320	SIGN	LEFT	GUIDE, CAMPGROUND FULL DO NOT ENTER WITHOUT RESERVATION
0.320	0.320	SIGN	LEFT	GUIDE, STOP FOR CAMPING REGISTRATION
0.323	0.323	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.323	0.323	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.329	0.329	SIGN	RIGHT	REGULATORY, STOP
0.334	0.337	CURB	LEFT	
0.343	0.343	SIGN	RIGHT	GUIDE, 8 PM
0.343	0.343	SIGN	RIGHT	GUIDE, RANGER PROGRAM TONIGHT
0.361	0.361	SIGN	RIGHT	GUIDE, A LOOP OPEN B LOOP OPEN GROUP SITE OPEN C LOOP TENTS ONLY OPEN D LOOP TENTS ONLY OPEN WALK-IN CAMPSI
0.361	0.361	SIGN	RIGHT	REGULATORY, DO NOT FEED WILDLIFE
0.366	0.366	INTERSECTION	LEFT	ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C and D MAINTENANCE ACCESS)
0.368	0.373	CURB	LEFT	

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202: WATCHMAN CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.374	0.374	DROP INLET	LEFT	
0.376	0.376	SIGN	RIGHT	GUIDE, NO GENERATORS
0.379	0.379	INTERSECTION	LEFT	ROUTE 0903 (WATCHMAN CAMPGROUND DUMP STATION PARKING)
0.384	0.402	CURB	LEFT	
0.409	0.409	INTERSECTION	RIGHT	ROUTE 0202A (WATCHMAN CAMPGROUND LOOP A)
0.409	0.409	INTERSECTION	LEFT	ROUTE 0903 (WATCHMAN CAMPGROUND DUMP STATION PARKING)
0.415	0.419	CURB	LEFT	
0.416	0.416	SIGN	RIGHT	GUIDE, LOOP A
0.420	0.420	GATE	N/A	
0.420	0.420	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.420	0.420	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.429	0.429	SIGN	RIGHT	GUIDE, AMPHITHEATER GROUP CAMPING
0.484	0.484	FIRE HYDRANT	RIGHT	
0.509	0.509	SIGN	RIGHT	GUIDE, WATCHMAN AMPHITHEATER
0.512	0.512	FIRE HYDRANT	RIGHT	
0.518	0.518	INTERSECTION	RIGHT	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.525	0.525	SIGN	RIGHT	GUIDE, LOOP B
0.528	0.528	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.528	0.528	GATE	N/A	
0.528	0.528	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.568	0.568	SIGN	LEFT	GUIDE, LOOP E
0.568	0.568	SIGN	LEFT	GUIDE, ORGANIZED GROUPS RESERVATIONS REQUIRED
0.596	0.596	SIGN	RIGHT	REGULATORY, NO PARKING
0.624	0.624	CULVERT	N/A	
0.636	0.636	INTERSECTION	LEFT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.636	0.870	ONE-WAY	N/A	
0.714	0.714	CULVERT	N/A	
0.726	0.726	CULVERT	N/A	
0.829	0.829	CULVERT	N/A	
0.847	0.847	CULVERT	N/A	
0.860	0.860	CULVERT	N/A	
0.870	0.870	INTERSECTION	LEFT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.870	0.870	INTERSECTION	RIGHT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202: WATCHMAN CAMPGROUND ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.870	0.870	ROUTE END	N/A	TO END OF LOOP



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202A: WATCHMAN CAMPGROUND LOOP A

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.41 ON RIGHT
0.000	0.000	INTERSECTION	N/A	ROUTE 0903 (WATCHMAN CAMPGROUND DUMP STATION PARKING)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.006	0.006	DROP INLET	LEFT	
0.008	0.008	GATE	N/A	
0.008	0.008	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.008	0.008	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.022	0.022	INTERSECTION	LEFT	ROUTE 0202A (WATCHMAN CAMPGROUND LOOP A)
0.022	0.260	ONE-WAY	N/A	
0.028	0.028	DROP INLET	LEFT	
0.028	0.028	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.054	0.054	DROP INLET	LEFT	
0.092	0.092	DROP INLET	LEFT	
0.144	0.144	CULVERT	N/A	
0.177	0.177	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.178	0.178	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.178	0.178	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.188	0.188	DROP INLET	LEFT	
0.190	0.190	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.190	0.190	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.201	0.201	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.203	0.203	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.250	0.250	DROP INLET	LEFT	
0.260	0.260	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.260	0.260	INTERSECTION	LEFT	ROUTE 0202A (WATCHMAN CAMPGROUND LOOP A)
0.260	0.260	INTERSECTION	RIGHT	ROUTE 0202A (WATCHMAN CAMPGROUND LOOP A)
0.260	0.260	ROUTE END	N/A	TO END OF LOOP

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202B: WATCHMAN CAMPGROUND LOOP B

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.52 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.006	0.006	DROP INLET	LEFT	
0.007	0.007	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.007	0.007	GATE	N/A	
0.007	0.007	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.021	0.021	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.024	0.400	ONE-WAY	N/A	
0.024	0.024	INTERSECTION	LEFT	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.033	0.033	DROP INLET	LEFT	
0.042	0.042	INTERSECTION	RIGHT	ROUTE 0904 (WATCHMAN AMPHITHEATER LOOP B PARKING)
0.078	0.078	DROP INLET	LEFT	
0.085	0.085	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.085	0.085	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.094	0.094	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.094	0.094	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.097	0.097	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.097	0.097	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.106	0.106	DROP INLET	LEFT	
0.108	0.108	INTERSECTION	RIGHT	ROUTE 0202F (WATCHMAN CAMPGROUND LOOP F)
0.111	0.111	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.111	0.111	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.116	0.116	SIGN	RIGHT	WARNING, DIP
0.123	0.125	LOW WATER CROSSING	N/A	
0.163	0.163	SIGN	RIGHT	WARNING, DIP
0.166	0.167	LOW WATER CROSSING	N/A	
0.172	0.172	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.172	0.172	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.179	0.179	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.179	0.179	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.187	0.187	DROP INLET	LEFT	
0.195	0.195	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202B: WATCHMAN CAMPGROUND LOOP B

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.195	0.195	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.219	0.219	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.219	0.219	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.230	0.230	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.230	0.230	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.240	0.240	INTERSECTION	RIGHT	ROUTE 0202F (WATCHMAN CAMPGROUND LOOP F)
0.244	0.244	CULVERT	N/A	
0.254	0.254	CULVERT	N/A	
0.279	0.279	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.279	0.279	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.289	0.289	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.289	0.289	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.312	0.312	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.312	0.312	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.316	0.316	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.316	0.316	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.324	0.324	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.324	0.324	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.325	0.325	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.325	0.325	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.328	0.328	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.328	0.328	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.331	0.331	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.331	0.331	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.335	0.335	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.335	0.335	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.336	0.336	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.336	0.336	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.342	0.342	CULVERT	N/A	
0.353	0.353	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.353	0.353	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.361	0.361	DROP INLET	LEFT	
0.377	0.377	DROP INLET	LEFT	
0.390	0.390	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202B: WATCHMAN CAMPGROUND LOOP B

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.390	0.390	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.400	0.400	INTERSECTION	LEFT	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.400	0.400	INTERSECTION	RIGHT	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.400	0.400	ROUTE END	N/A	TO END OF LOOP

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0202C: WATCHMAN CAMPGROUND LOOP C

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C and D MAINTENANCE ACCESS) AT MP 0.02 ON RIGHT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS)
0.004	0.004	CULVERT	N/A	
0.009	0.009	GATE	N/A	
0.033	0.033	INTERSECTION	LEFT	ROUTE 0202C (WATCHMAN CAMPGROUND LOOP C)
0.033	0.289	ONE-WAY	N/A	
0.036	0.036	SIGN	LEFT	REGULATORY, ONE WAY
0.056	0.056	CULVERT	N/A	
0.072	0.072	CULVERT	N/A	
0.078	0.078	CULVERT	N/A	
0.091	0.091	CULVERT	N/A	
0.100	0.100	CULVERT	N/A	
0.130	0.130	CULVERT	N/A	
0.189	0.189	CULVERT	N/A	
0.198	0.198	CULVERT	N/A	
0.273	0.273	CULVERT	N/A	
0.289	0.289	INTERSECTION	RIGHT	ROUTE 0202C (WATCHMAN CAMPGROUND LOOP C)
0.289	0.289	INTERSECTION	LEFT	ROUTE 0202C (WATCHMAN CAMPGROUND LOOP C)
0.290	0.290	ROUTE END	N/A	TO END OF LOOP

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0202D: WATCHMAN CAMPGROUND LOOP D

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C and D MAINTENANCE ACCESS) AT MP 0.06 ON RIGHT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202E (WATCHMAN CAMPGROUND LOOPS C AND D MAINTENANCE ACCESS)
0.006	0.006	DROP INLET	LEFT	
0.017	0.017	INTERSECTION	LEFT	ROUTE 0202D (WATCHMAN CAMPGROUND LOOP D)
0.017	0.280	ONE-WAY	N/A	
0.023	0.023	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.025	0.025	CULVERT	N/A	
0.036	0.036	CULVERT	N/A	
0.048	0.048	CULVERT	N/A	
0.060	0.060	CULVERT	N/A	
0.085	0.085	CULVERT	N/A	
0.095	0.095	CULVERT	N/A	
0.108	0.108	CULVERT	N/A	
0.152	0.152	CULVERT	N/A	
0.163	0.163	CULVERT	N/A	
0.174	0.174	CULVERT	N/A	
0.186	0.186	CULVERT	N/A	
0.196	0.196	CULVERT	N/A	
0.208	0.208	CULVERT	N/A	
0.221	0.221	CULVERT	N/A	
0.280	0.280	INTERSECTION	LEFT	ROUTE 0202D (WATCHMAN CAMPGROUND LOOP D)
0.280	0.280	INTERSECTION	RIGHT	ROUTE 0202D (WATCHMAN CAMPGROUND LOOP D)
0.280	0.280	ROUTE END	N/A	TO END OF LOOP

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0202E: WATCHMAN CAMPGROUND LOOPS C and D MAINTENANCE A

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.37 ON LEFT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.002	0.002	DROP INLET	LEFT	
0.023	0.023	INTERSECTION	RIGHT	ROUTE 0202C (WATCHMAN CAMPGROUND LOOP C)
0.023	0.023	SIGN	RIGHT	GUIDE, LOOP C
0.029	0.029	SIGN	LEFT	GUIDE, PARK INFORMATION CAMPGROUND HOST
0.034	0.034	FIRE HYDRANT	RIGHT	
0.044	0.044	INTERSECTION	LEFT	ROUTE 0935 (WATCHMAN CAMPGROUND WALK-IN PARKING)
0.063	0.063	INTERSECTION	RIGHT	ROUTE 0202D (WATCHMAN CAMPGROUND LOOP D)
0.067	0.067	SIGN	RIGHT	GUIDE, LOOP D
0.086	0.086	INTERSECTION	LEFT	ROUTE 0935 (WATCHMAN CAMPGROUND WALK-IN PARKING)
0.118	0.118	CULVERT	N/A	
0.130	0.130	GATE	N/A	
0.130	0.130	INTERSECTION	N/A	ROUTE 0942 (WATCHMAN MAINTENANCE STORE AREA PARKING)
0.130	0.130	ROUTE END	N/A	TO ROUTE 0942 (WATCHMAN MAINTENANCE STORE AREA PARKING)

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0202F: WATCHMAN CAMPGROUND LOOP F

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B) AT MP 0.11
0.000	0.190	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.001	0.001	DROP INLET	LEFT	
0.025	0.025	CULVERT	N/A	
0.058	0.058	CULVERT	N/A	
0.115	0.115	CULVERT	N/A	
0.137	0.137	CULVERT	N/A	
0.158	0.158	DROP INLET	LEFT	
0.180	0.180	DROP INLET	LEFT	
0.189	0.189	INTERSECTION	LEFT	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.190	0.190	INTERSECTION	N/A	ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B)
0.190	0.190	ROUTE END	N/A	TO ROUTE 0202B (WATCHMAN CAMPGROUND LOOP B) AT MP 0.24



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0207: WATCHMAN TRAIL ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202 (WATCHMAN CAMPGROUND ROAD) AT MP 0.17 ON LEFT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202 (WATCHMAN CAMPGROUND ROAD)
0.002	0.002	INTERSECTION	LEFT	ROUTE 0901 (EMPLOYEE VISITOR CENTER PARKING)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.009	0.009	SIGN	RIGHT	GUIDE, EMPLOYEE RESIDENTIAL AREA RESIDENTS AND GUESTS ONLY
0.026	0.026	INTERSECTION	RIGHT	ROUTE 0934 (PTI FACILITY PARKING)
0.070	0.070	SIGN	RIGHT	WARNING, DIP
0.086	0.097	LOW WATER CROSSING	N/A	
0.125	0.125	SIGN	RIGHT	WARNING, DIP
0.182	0.182	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.205	0.205	INTERSECTION	RIGHT	UNPAVED PARKING
0.240	0.240	SIGN	RIGHT	GUIDE, WATCHMAN TRAIL
0.240	0.240	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.240	0.240	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.272	0.272	CULVERT	N/A	
0.274	0.274	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.275	0.275	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.282	0.282	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.304	0.304	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.318	0.318	SIGN	RIGHT	GUIDE, SERVICE ROAD ONLY
0.353	0.353	SIGN	RIGHT	WARNING, SLOW CHILDREN PLAYING
0.353	0.353	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.367	0.367	SIGN	RIGHT	REGULATORY, YIELD
0.368	0.368	FIRE HYDRANT	LEFT	
0.370	0.370	INTERSECTION	LEFT	ROUTE 0401 (WATCHMAN RESIDENCE ROAD)
0.370	0.370	INTERSECTION	RIGHT	ROUTE 0400 (WATCHMAN HOUSING COMPLEX ROAD)
0.370	0.370	ROUTE END	N/A	TO ROUTE 0401 (WATCHMAN RESIDENCE ROAD) AND ROUTE 0400 (WATCHMAN HOUSING COMPLEX ROAD) INTERSECTION

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0208: EAST RIM TRAIL ACCESS

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 11.49 ON LEFT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.037	0.037	SIGN	RIGHT	GUIDE, PRIVATE RESIDENCE
0.038	0.038	SIGN	RIGHT	GUIDE, TRAILHEAD
0.072	0.072	GATE	N/A	
0.080	0.080	INTERSECTION	N/A	ROUTE 0914 (EAST RIM TRAIL HEAD PARKING)
0.080	0.080	ROUTE END	N/A	TO END OF PAVEMENT

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0400: WATCHMAN HOUSING COMPLEX ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0401 (WATCHMAN RESIDENCE ROAD) AT MP 0.33 ON LEFT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0401 (WATCHMAN RESIDENCE ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0401 (WATCHMAN RESIDENCE ROAD)
0.035	0.035	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.153	0.153	FIRE HYDRANT	LEFT	
0.180	0.180	INTERSECTION	LEFT	ROUTE 0207 (WATCHMAN TRAIL ROAD)
0.180	0.180	INTERSECTION	N/A	ROUTE 0401 (WATCHMAN RESIDENCE ROAD)
0.180	0.180	ROUTE END	N/A	TO INTERSECTION OF ROUTE 0207 (WATCHMAN TRAIL ROAD) AND END OF ROUTE 0401 (WATCHMAN RESIDENCE ROAD)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0401: WATCHMAN RESIDENCE ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD) AT MP 0.05 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD)
0.006	0.006	SIGN	RIGHT	GUIDE, EMPLOYEE RESIDENTIAL AREA RESIDENTS AND GUESTS ONLY
0.008	0.008	SIGN	RIGHT	REGULATORY, YIELD
0.015	0.015	SIGN	RIGHT	GUIDE, CAUTION LOW CLEARANCE 11'
0.071	0.071	OVERPASS	N/A	1590-003 (OAK CREEK BRIDGE)
0.108	0.108	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.108	0.108	CULVERT	N/A	
0.116	0.116	FIRE HYDRANT	LEFT	
0.119	0.119	SIGN	RIGHT	GUIDE, CAUTION LOW CLEARANCE 11'
0.138	0.138	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.171	0.171	SIGN	RIGHT	GUIDE, SERVICE ROAD ONLY
0.194	0.194	SIGN	RIGHT	GUIDE, EMPLOYEE RESIDENTIAL AREA RESIDENTS AND GUESTS ONLY
0.209	0.209	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.240	0.258	GUARD/GUIDE RAIL	RIGHT	
0.240	0.240	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.241	0.258	BRIDGE	N/A	1590-002 (WATCHMAN RESIDENCE BRIDGE)
0.241	0.260	GUARD/GUIDE RAIL	LEFT	
0.260	0.260	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.274	0.274	INTERSECTION	LEFT	ROUTE 0910 (WATCHMAN ADMINISTRATOR PARKING)
0.290	0.290	INTERSECTION	LEFT	ROUTE 0910 (WATCHMAN ADMINISTRATOR PARKING)
0.303	0.303	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.303	0.303	SIGN	RIGHT	WARNING, BUMP
0.319	0.319	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.321	0.321	SIGN	RIGHT	WARNING, SLOW CHILDREN
0.328	0.328	INTERSECTION	LEFT	ROUTE 0400 (WATCHMAN HOUSING COMPLEX ROAD)
0.338	0.338	FIRE HYDRANT	RIGHT	
0.347	0.347	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.374	0.374	FIRE HYDRANT	LEFT	
0.409	0.409	FIRE HYDRANT	RIGHT	
0.440	0.440	FIRE HYDRANT	LEFT	

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0401: WATCHMAN RESIDENCE ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.474	0.474	CULVERT	N/A	
0.480	0.480	INTERSECTION	N/A	ROUTE 0400 (WATCHMAN HOUSING COMPLEX ROAD)
0.480	0.480	INTERSECTION	RIGHT	ROUTE 0207 (WATCHMAN TRAIL ROAD)
0.480	0.480	ROUTE END	N/A	TO INTERSECTION OF ROUTE 0207 (WATCHMAN TRAIL ROAD) AND END OF ROUTE 0400 (WATCHMAN HOUSING COMPLEX ROAD)

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0402: OAK CREEK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 0.68 ON LEFT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.007	0.007	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.008	0.008	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.009	0.009	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.012	0.012	SIGN	RIGHT	GUIDE, SERVICE ROAD AUTHORIZED PERSONS ONLY
0.020	0.020	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY) SPUR
0.035	0.035	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.039	0.039	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.042	0.042	INTERSECTION	RIGHT	ROUTE 0403 (OAK CREEK HEADQUARTERS ROAD)
0.084	0.084	INTERSECTION	RIGHT	ROUTE 0940 (E.O.C. PARKING AREA)
0.098	0.098	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.118	0.118	CULVERT	N/A	
0.297	0.297	INTERSECTION	RIGHT	ROUTE 0407 (OAK CREEK RESIDENCE ROAD)
0.440	0.458	RETAINING WALL	RIGHT	ZION-0402-0.440-R
0.461	0.461	CULVERT	N/A	
0.492	0.495	RETAINING WALL	RIGHT	ZION-0402-0.492-R
0.493	0.499	RETAINING WALL	RIGHT	ZION-0402-0.493-R
0.498	0.498	CULVERT	N/A	
0.509	0.509	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.532	0.532	INTERSECTION	LEFT	ROUTE 0909A (NORTH MAINTENANCE AREA PARKING A)
0.540	0.540	INTERSECTION	RIGHT	ROUTE 0909B (OAK CREEK MAINTENANCE OVERFLOW PARKING B)
0.545	0.552	RETAINING WALL	RIGHT	ZION-0402-0.545-R
0.547	0.552	RETAINING WALL	LEFT	ZION-0402-0.547-L
0.554	0.554	CULVERT	N/A	
0.566	0.566	FIRE HYDRANT	LEFT	
0.570	0.570	GATE	N/A	
0.570	0.570	INTERSECTION	N/A	ROUTE 0909C (OAK CREEK MAINTENANCE OVERFLOW PARKING C)
0.570	0.570	ROUTE END	N/A	TO ROUTE 0909C (OAK CREEK MAINTENANCE OVERFLOW PARKING C)

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0403: OAK CREEK HEADQUARTERS ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0402 (OAK CREEK ROAD) AT MP 0.04 ON RIGHT AND LEFT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0402 (OAK CREEK ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0402 (OAK CREEK ROAD)
0.005	0.005	SIGN	RIGHT	REGULATORY, STOP
0.021	0.021	INTERSECTION	LEFT	ROUTE 0940 (E.O.C. PARKING AREA)
0.025	0.025	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.045	0.045	INTERSECTION	LEFT	ROUTE 0941 (HEADQUARTERS WATCHMAN JUNCTION PARKING)
0.052	0.052	INTERSECTION	RIGHT	ROUTE 0401 (WATCHMAN RESIDENCE ROAD)
0.063	0.067	PAVED DITCH	RIGHT	
0.063	0.063	SIGN	RIGHT	GUIDE, NPS PARKING ONLY
0.065	0.076	GUARD/GUIDE RAIL	LEFT	
0.066	0.077	GUARD/GUIDE RAIL	RIGHT	
0.067	0.076	BRIDGE	N/A	1590-010 (OAK CREEK SERVICE BRIDGE)
0.076	0.079	CURB-AND-GUTTER	LEFT	
0.078	0.079	CURB-AND-GUTTER	RIGHT	
0.080	0.080	INTERSECTION	N/A	ROUTE 0908 (ADMINISTRATION PARKING)
0.080	0.080	ROUTE END	N/A	TO ROUTE 0908 (ADMINISTRATION PARKING)

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0404: VISITOR CENTER RESIDENTIAL ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (ZION-MT CARMEL HIGHWAY) AT MP 1.32 ON LEFT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (ZION-MT CARMEL HIGHWAY)
0.002	0.002	CULVERT	N/A	
0.010	0.010	SIGN	RIGHT	GUIDE, EMPLOYEE RESIDENTIAL AREA RESIDENTS AND GUESTS ONLY
0.041	0.041	FIRE HYDRANT	RIGHT	
0.059	0.070	CURB	RIGHT	
0.061	0.062	CURB	LEFT	
0.065	0.070	CURB	LEFT	
0.070	0.070	INTERSECTION	N/A	DEAD END (DRIVEWAY)
0.070	0.070	ROUTE END	N/A	TO DEAD END



# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0407: OAK CREEK RESIDENCE ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0402 (OAK CREEK ROAD) AT MP 0.30 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0402 (OAK CREEK ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0402 (OAK CREEK ROAD)
0.014	0.014	SIGN	RIGHT	REGULATORY, STOP
0.026	0.026	SIGN	RIGHT	GUIDE, EMPLOYEE RESIDENTIAL AREA RESIDENTS AND GUESTS ONLY
0.038	0.038	CULVERT	N/A	
0.042	0.042	CULVERT	N/A	
0.047	0.047	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.048	0.048	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.060	0.060	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.060	0.060	SIGN	RIGHT	WARNING, SLOW CHILDREN
0.079	0.079	INTERSECTION	RIGHT	ROUTE 0408 (OAK CREEK RESIDENCE SPUR ROAD)
0.099	0.099	FIRE HYDRANT	RIGHT	
0.163	0.163	FIRE HYDRANT	RIGHT	
0.192	0.203	CURB	LEFT	
0.214	0.214	FIRE HYDRANT	LEFT	
0.215	0.227	CURB	RIGHT	
0.219	0.230	CURB	LEFT	
0.230	0.230	INTERSECTION	N/A	DEAD END (DRIVEWAY)
0.230	0.230	ROUTE END	N/A	TO DEAD END

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0408: OAK CREEK RESIDENCE SPUR ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0407 (OAK CREEK RESIDENCE ROAD) AT MP 0.08 ON RIGHT
0.000	0.000	INTERSECTION	N/A	ROUTE 0407 (OAK CREEK RESIDENCE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0407 (OAK CREEK RESIDENCE ROAD)
0.005	0.114	CURB	LEFT	
0.024	0.033	PULLOUT	RIGHT	
0.042	0.054	PULLOUT	RIGHT	
0.045	0.045	FIRE HYDRANT	LEFT	
0.099	0.121	CURB	RIGHT	
0.115	0.115	FIRE HYDRANT	RIGHT	
0.150	0.180	CURB	LEFT	
0.172	0.172	INTERSECTION	RIGHT	ROUTE 0946 (OAK CREEK DORM PARKING)
0.180	0.180	INTERSECTION	N/A	DEAD END (PROPANE TANK)
0.180	0.180	SIGN	N/A	GUIDE, FLAMMABLE GAS KEEP OPEN FLAMES AND LIGHTS AWAY NO SMOKING
0.180	0.180	SIGN	N/A	GUIDE, PROPANE
0.180	0.180	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
0.180	0.180	ROUTE END	N/A	TO DEAD END

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0409: HORSE CORRAL ROAD / BIRCH CREEK ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 1.64 ON LEFT
0.000	0.000	INTERSECTION	N/A	ROUTE 0915 (COURT OF THE PATRIARCHS PARKING)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (ZION SCENIC CANYON DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0011 (ZION SCENIC CANYON DRIVE)
0.008	0.008	SIGN	LEFT	REGULATORY, YIELD
0.010	0.010	INTERSECTION	RIGHT	ROUTE 0011 (ZION SCENIC CANYON DRIVE) SPUR
0.014	0.014	SIGN	RIGHT	GUIDE, SERVICE ROAD ONLY
0.038	0.038	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.038	0.038	GATE	N/A	
0.038	0.038	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.069	0.069	FIRE HYDRANT	LEFT	
0.073	0.073	INTERSECTION	LEFT	UNPAVED PARKING
0.109	0.109	FIRE HYDRANT	RIGHT	
0.150	0.150	INTERSECTION	N/A	DEAD END (HORSE CORRAL)
0.150	0.150	ROUTE END	N/A	TO DEAD END

# ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

## ROUTE 0410: KOLOB SERVICE ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0013 (KOLOB CANYON ROAD) AT MP 0.07 ON LEFT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0013 (KOLOB CANYON ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0013 (KOLOB CANYON ROAD)
0.006	0.006	CULVERT	N/A	
0.007	0.007	SIGN	RIGHT	REGULATORY, YIELD
0.007	0.007	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.010	0.010	SIGN	RIGHT	GUIDE, SERVICE ROAD AUTHORIZED PERSONS ONLY
0.092	0.108	PULLOUT	RIGHT	
0.112	0.112	CULVERT	N/A	
0.113	0.113	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.114	0.114	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.170	0.188	PULLOUT	RIGHT	
0.200	0.200	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.200	0.200	CULVERT	N/A	
0.201	0.201	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.226	0.248	PULLOUT	RIGHT	
0.323	0.343	PULLOUT	RIGHT	
0.377	0.377	INTERSECTION	RIGHT	ROUTE 0938 (KOLOB CANYON MAINTENANCE PARKING)
0.411	0.411	SIGN	RIGHT	WARNING, SLOW CHILDREN PLAYING
0.426	0.426	INTERSECTION	RIGHT	ROUTE 0411 (KOLOB RESIDENCE ROAD)
0.441	0.441	INTERSECTION	RIGHT	ROUTE 0411 (KOLOB RESIDENCE ROAD)
0.450	0.450	INTERSECTION	N/A	UNPAVED ROUTE
0.450	0.450	ROUTE END	N/A	TO UNPAVED ROUTE

## ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

### ROUTE 0412: CONCESSIONAIRE / DORM ACCESS ROAD

<b>FROM MILEPOST</b>	<b>TO MILEPOST</b>	<b>FEATURE</b>	<b>SIDE</b>	<b>COMMENT</b>
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0011 (ZION SCENIC CANYON DRIVE) AT MP 2.48 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (ZION SCENIC CANYON DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0011 (ZION SCENIC CANYON DRIVE)
0.006	0.006	SIGN	RIGHT	REGULATORY, STOP
0.007	0.007	GATE	N/A	
0.032	0.032	SIGN	RIGHT	REGULATORY, SPEED LIMIT 5
0.061	0.061	SIGN	RIGHT	GUIDE, EXIT
0.064	0.064	INTERSECTION	LEFT	ROUTE 0917 (ZION LODGE CABIN PARKING)
0.078	0.078	INTERSECTION	RIGHT	ROUTE 0931A (CONCESSIONAIRE / DORM PARKING A)
0.114	0.114	FIRE HYDRANT	RIGHT	
0.148	0.148	INTERSECTION	RIGHT	ROUTE 0931B (CONCESSIONAIRE / DORM PARKING B)
0.152	0.152	FIRE HYDRANT	RIGHT	
0.185	0.185	INTERSECTION	RIGHT	ROUTE 0931C (CONCESSIONAIRE / DORM PARKING C)
0.189	0.189	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
0.198	0.200	CURB	RIGHT	
0.221	0.221	INTERSECTION	RIGHT	ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD)
0.269	0.269	FIRE HYDRANT	RIGHT	
0.271	0.271	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.324	0.324	CULVERT	N/A	
0.350	0.350	INTERSECTION	LEFT	ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD)
0.350	0.350	INTERSECTION	RIGHT	ROUTE 0412 (CONCESSIONAIRE / DORM ACCESS ROAD)
0.350	0.350	ROUTE END	N/A	TO END OF LOOP

# Zion National Park



## **Section 10** **Appendix**

## **APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS**

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

## **APPENDIX B: DESCRIPTION OF RATING SYSTEM**

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

Data is collected on the following distresses and conditions:

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

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

### **Calculation of Index Values**

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

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

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

#### **Condition Ranges for all Indices**

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

#### **Alligator Crack Index**

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

Where :

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

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



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

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

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

The threshold for failure for this index is  $AC\_INDEX = 60$ .

#### Severity Levels:

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

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

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

#### Longitudinal Crack Index

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

#### Where:

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

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

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

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

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

The threshold for failure for this index is  $LC\_INDEX = 60$ .

#### Severity Levels:

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

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

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

### Transverse Crack Index

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

Where:

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

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

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

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

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

The threshold for failure for this index is  $TC\_INDEX = 60$ .

Severity Levels:

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

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

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

### Patching Index

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

Where:

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

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

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

The threshold for failure for this index is  $PATCH\_INDEX = 60$ .

There are no severity levels for patching.

### Rutting Index

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

Where:

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

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

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

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

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

The threshold for failure for this index is RUT\_INDEX = 60.

Severity Levels:

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

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

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

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

### **Roughness Condition Index**

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

Where:

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

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

There is no applicable threshold for failure for this index.

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

### **Surface Condition Rating Index**

$$SCR = 100 - [(100 - AC\_INDEX) + (100 - LC\_INDEX) + (100 - TC\_INDEX) + (100 - PATCH\_INDEX) + (100 - RUT\_INDEX)]$$

Where:

See above for determinations of [AC\\_INDEX](#), [LC\\_INDEX](#), [TC\\_INDEX](#), [PATCH\\_INDEX](#) and [RUT\\_INDEX](#).

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

### **Pavement Condition Rating Index Asphaltic Concrete Pavement (AS)**

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

Where:

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

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

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

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

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

### **Pavement Condition Rating Index Portland Cement Concrete Pavement (CO)**

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

Where:

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

### **Parking Lot and Manually Rated Road Condition Rating**

#### **Surface Condition Distresses- Chip Seal:**

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

#### **Ratings - Chip Seal:**

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

#### **Surface Condition - Asphalt:**

- Cracking of any type
- Rutting
- Potholes/Patching

**Ratings - Asphalt:**

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

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

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

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

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

Under Construction 100

Excellent 97

Good 90

Fair 73

Poor 45

## **APPENDIX C: GENERAL INFORMATION ON RIP SYSTEMS**

### **DMI (Distance Measuring Instrument)**

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

### **Digital Image Information**

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

### **Right-of-way (ROW) Video**

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

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

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

### **Pavement Video**

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

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

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

### **FHWA ARAN GPS & Inertial System**

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

### **GPS Collected on Manually Rated Routes**

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

### **GPS SHAPEFILES**

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

- Datum for all GPS shapefiles is LL\_WGS84\_DD (Latitude Longitude \_World Geodetic Survey 1984\_Decimal Degrees)
- In filename, “park” is NPS four-letter alphabetic code.
- The source for route data required for data processing and report production is the PARK\_RouteInfo.mdb.

### **Condition Photos Taken of Manually Rated Roads**

One or more digital photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera for each manually rated route in a National Park. They are stored in .jpg format named with the four-letter NPS park alphabetic code, route number, and the photo number assigned by the camera. For example, YOSE\_0900\_4434.jpg is the filename of the photo named 4434 by the camera that was taken of Yosemite National Park route 0900.

### **Scenic Photos**

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



## **APPENDIX D: METADATA**

### **FHWA – NPS Road Inventory Program Cycle 4 Metadata**

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

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

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

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

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

### **Specific Caveats**

- MUTCD based on contents & colors of sign, not on size
- Database records that show a Portland Cement Concrete (CO) surface type sometimes include distress index values that seem to show a perfect roadway. Condition assessments on concrete pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are not accurate. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route’s primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS\_Tenth table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS\_20 and PMS\_Mile tables simply exclude all opposite routes.

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a “station”.
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video and mileage. Signs and Mile Markers are the only features collected using the opposite-direction video with mileage location referenced to the primary direction lane of the roadway.
- Route\_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park\_ROAD\_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park\_PKG\_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

### Key to Notes in Tables

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

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

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

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

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

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

Access Database Metadata

MASTER Table Metadata:

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

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

**PMS\_FEATURE Table Metadata:**

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

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

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

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

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



**PMS\_20, PMS\_MILE, & PMS\_TENTH Tables Metadata:**

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

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

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

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

**ROUTE\_GPS table metadata:**

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

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

**FHWA "Route ID Program" Database**  
**Database Name: ROUTEINFO.mdb**  
**Table Name: ROUTE\_ID**

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

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



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

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

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

Database Name: ROUTEINFO.mdb

Table Name: PARK\_TOTALS

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

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

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

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

# Business Practices for Route Numbering and Roadway Asset Identification

## **Introduction and Background:**

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

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

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

## **Issue Statement:**

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



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

**Proposed Actions:**

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

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

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

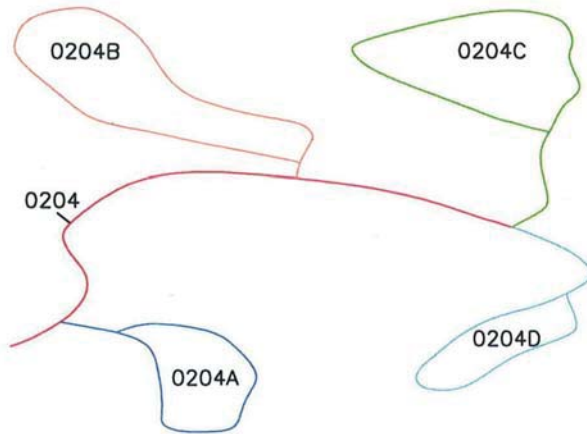
5. Focus asset definition practices on NPS asset management needs. Create roadway assets based on how parks manage these assets within the following guidelines:
  - a. Individual road segments (asset subcomponents) may be combined into a single asset. **Note that all the attributes of individual subcomponents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

**Discussion:**

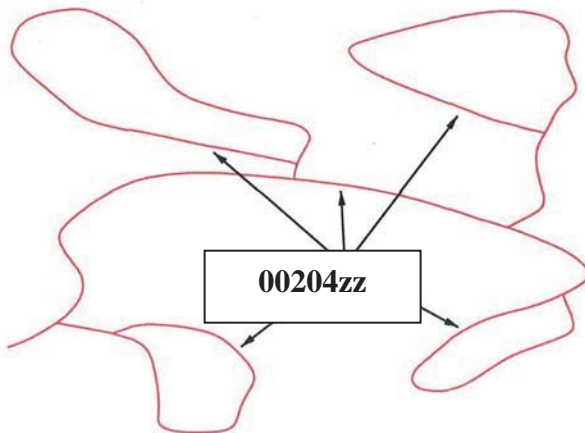
The first four items listed above are actions required by FHWA RIP to allow for the adoption of the practices shown in 5a-i. The following will provide additional direction and examples for guidelines listed.

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

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



**Figure 1: Campground with five routes and five assets**



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

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

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

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

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

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

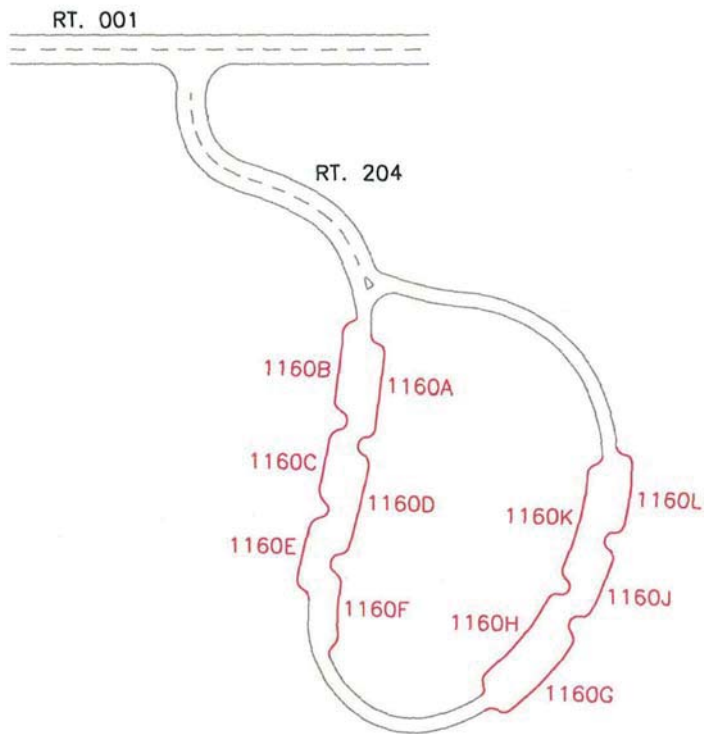


Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets ( one 1100 asset and 11 1300 assets).

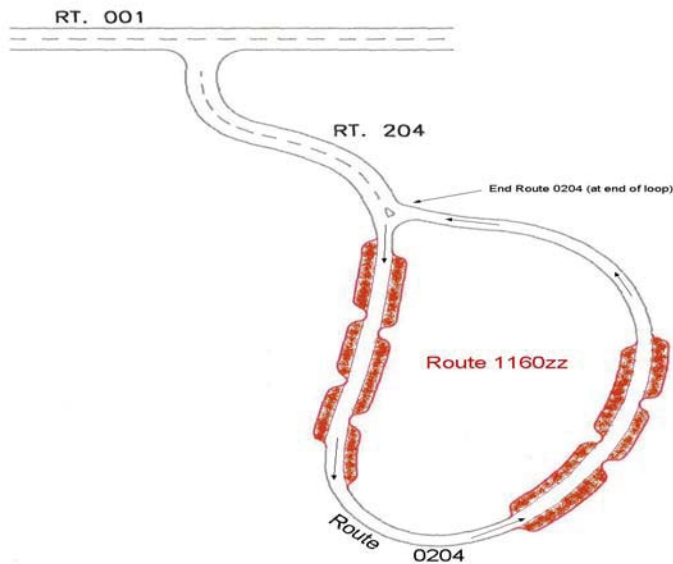
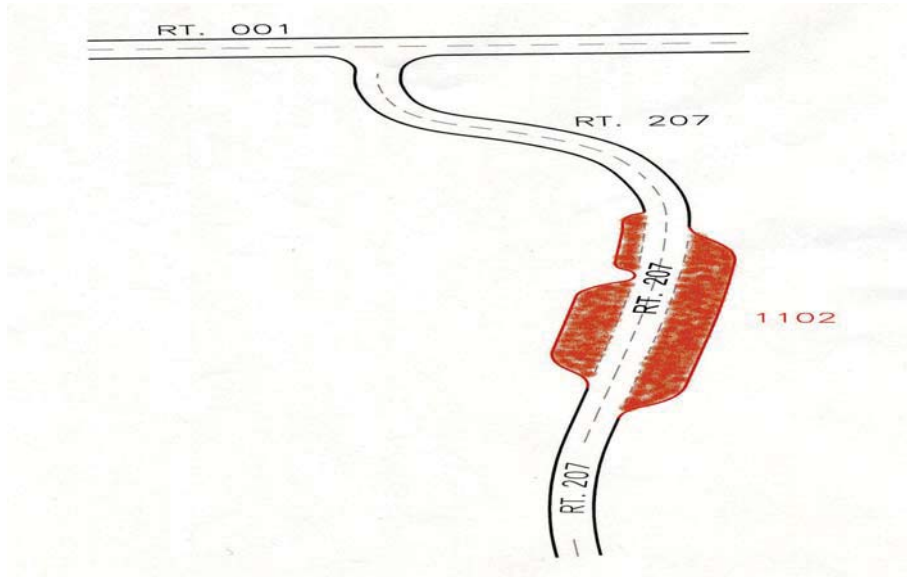


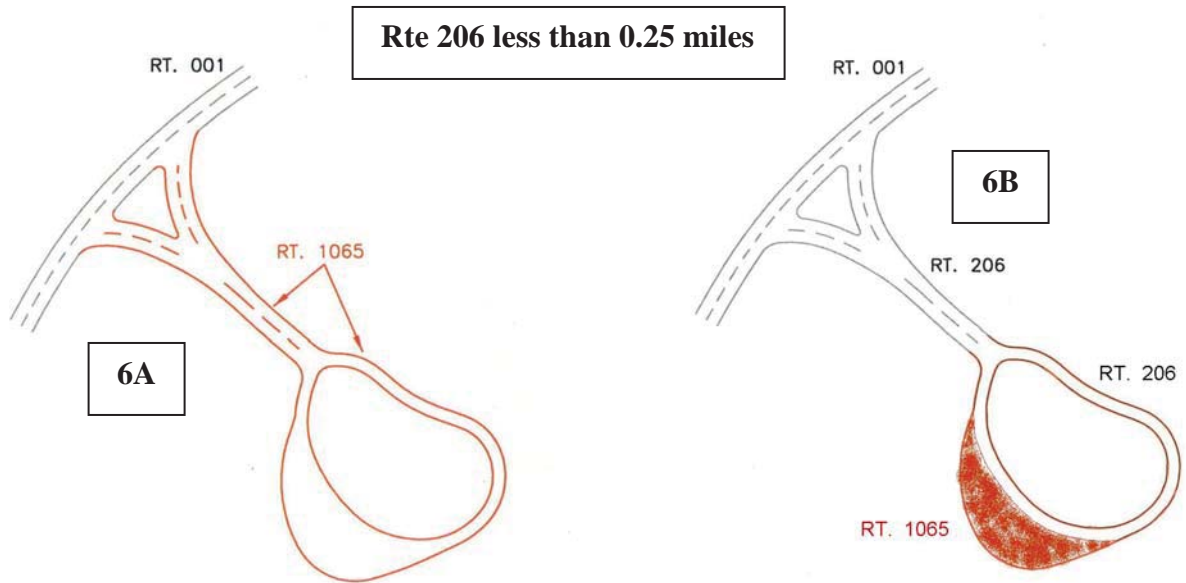
Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

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



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

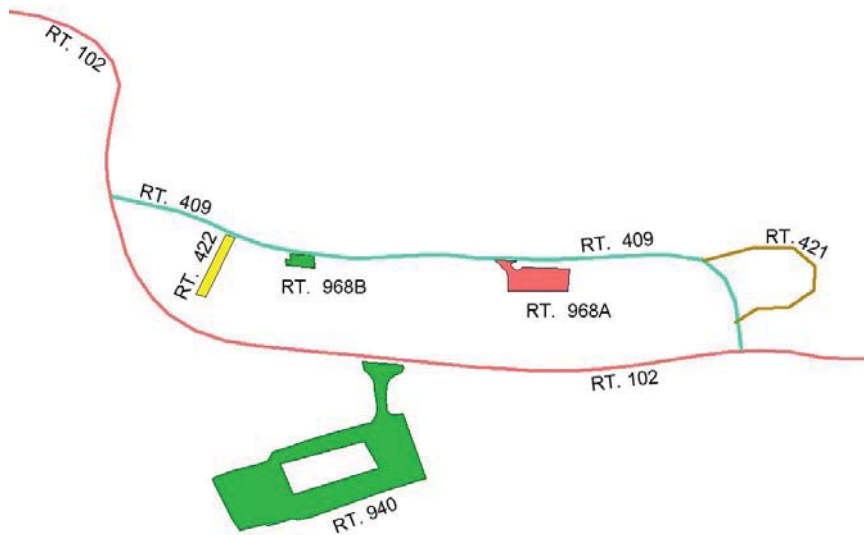
Where the primary purpose of a road is to provide access to a parking area, and that road segment is less than 0.25 miles in length, the access road should be considered part of the parking area. See Figures 8. Where a road continues on past a parking area to another facility or destination, even if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



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

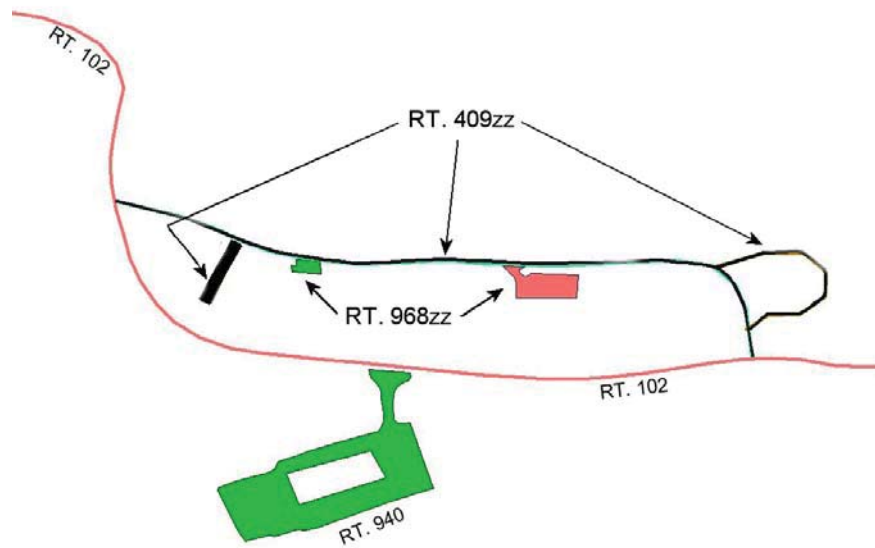
Particularly long routes may be divided into multiple assets based on how a park manages the roadway network. This should not be confused with the use of sub-components listed in 5a. Routes like the Blue Ridge Parkway or the Yellowstone Grand Loop may not lend themselves to management as a single asset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

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



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

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



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