The Road Inventory
of
Lassen Volcanic National Park
LAVO - 8400

national park service

Road Inventory Program

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

Lassen Volcanic National Park in California

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INTRODUCTION

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

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

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

In an effort to maintain and update the RIP data, a cyclical data collection and reporting process was re-established in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 data was collected in 44 large parks from 1994 to 1995. This data was found to be unusable for comparison to future cycles. Cycle 2 data was collected from March 1997 to January 2001 in 79 large parks and 5 small parks containing 4,874 route miles. Each park received a copy of a Cycle 2 RIP Report, also known as the "Blue Book."

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

In 1998, the Transportation Equity Act for the 21st Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) which requires the Federal Highway Administration and the National Park Service, to develop, by rule, a Pavement Management System (PMS) for the park roads and parkways serving the National Park System. As a result of the requirements in TEA-21, the NPS and the FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

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

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

In the Cycle 3 Reports, a general condition rating of excellent, good, fair and poor is ascribed to each one-mile section of paved roadway, and to each paved parking area. This condition rating system provides a realistic means of assessing the general funding needs for road improvements. Along with these descriptive condition ratings, a numerical rating between 0 and 100 is ascribed to each mile of road and to each parking area.. This numerical rating is called a Pavement Condition Rating (PCR). The PCR rating system is described in Section 10 of this report.

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

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

FHWA RIP Coordinator:

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Lassen Volcanic National Park Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	34.90	8/17/2003
Unpaved Estimated Route Miles	22.66	8/17/2003
Paved ARAN and Unpaved Route Miles	57.56	
Paved ARAN Driven Lane Miles	66.23	8/17/2003
Paved MRR Lane Miles	3.44	8/17/2003
Parking Lot Lane Miles	11.87	8/17/2003
Total Paved Lane Miles	81.53	

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

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

Lassen Volcanic National Park Summaries

Cost to Improve to "Excellent" Condition

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

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

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	7.14	$214,200
Good	7.19	$790,900
Fair	12.53	$7,016,800
Poor	7.42	$11,426,800
Totals	**34.28**	**$19,448,700**

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

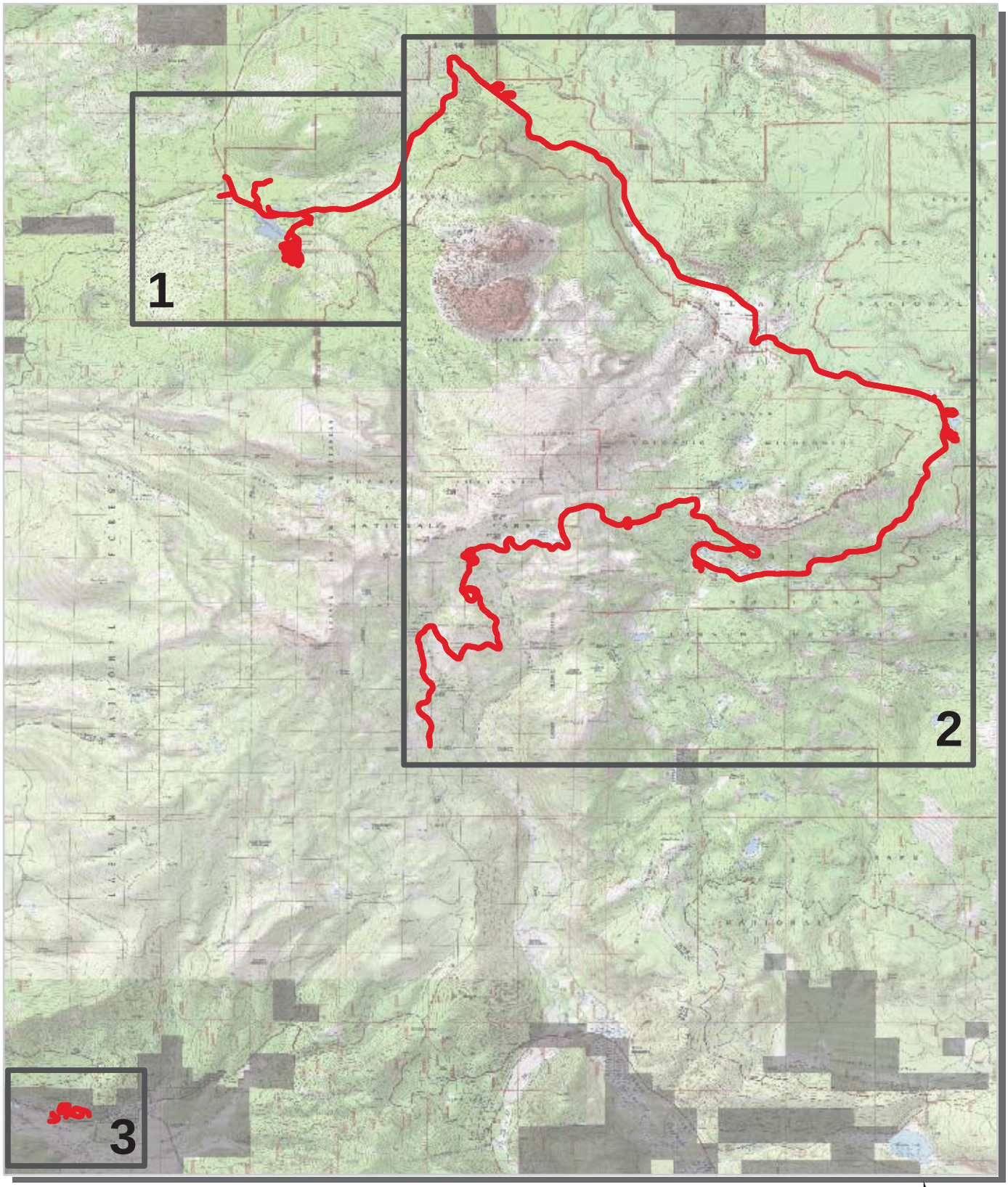
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Lassen Volcanic National Park Summaries

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

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	3.80	11.09%	11.97	34.92%	6.78	19.78%	7.08	20.65%	29.63
2	1.50	4.38%	0.26	0.76%	0.40	1.17%	0.06	0.18%	2.22
3									
4	0.96	2.80%	0.24	0.70%	0.01	0.03%			1.21
5									
6	1.16	3.38%	0.06	0.18%					1.22
7									
8									
Totals	**7.42**	**21.65%**	**12.53**	**36.55%**	**7.19**	**20.97%**	**7.14**	**20.83%**	**34.28**

Lassen Volcanic National Park
Route Location
Key Map

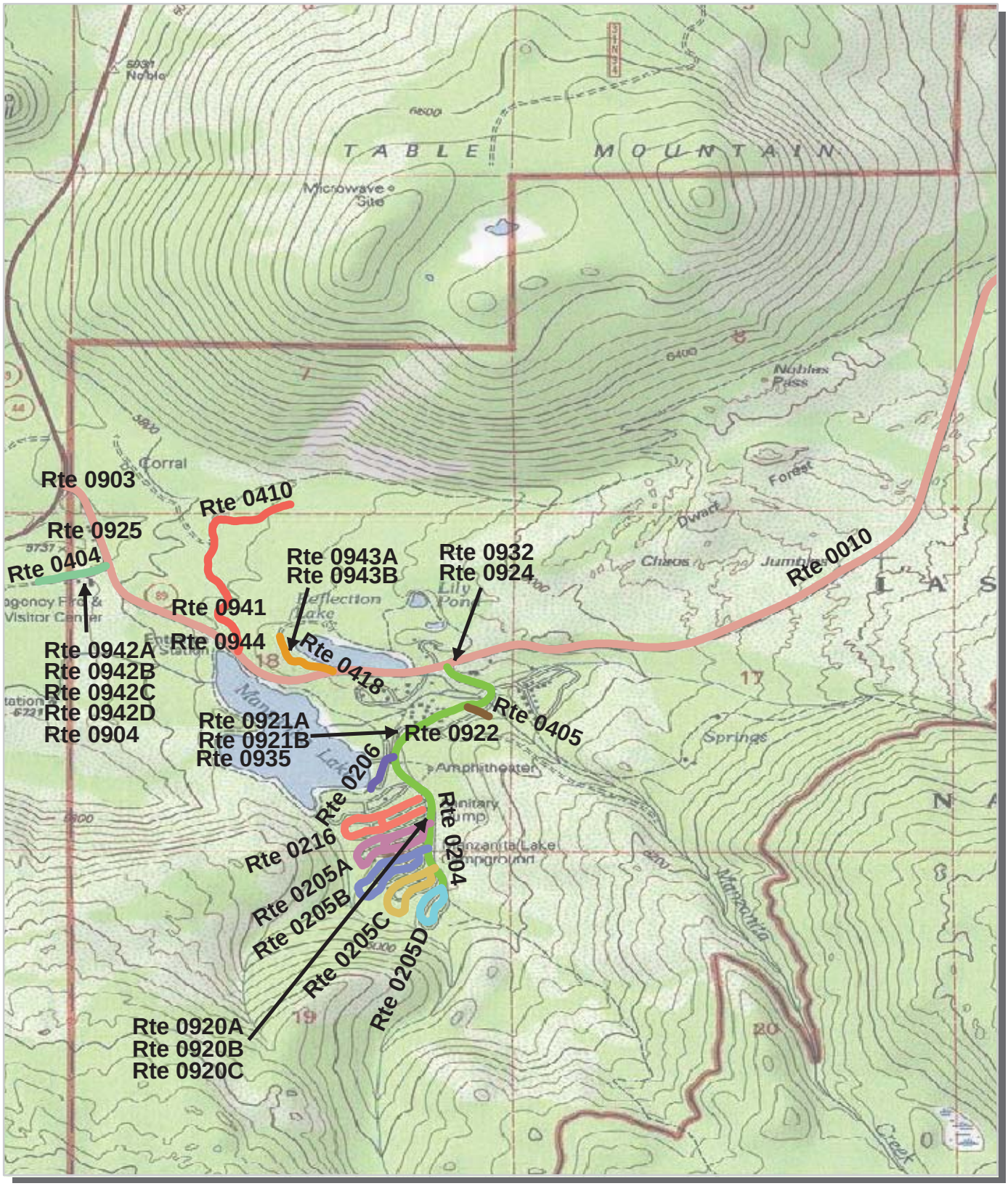


Park Owned Routes

2 1 0 2
Miles

N

Lassen Volcanic National Park
Route Location
Area Map 1

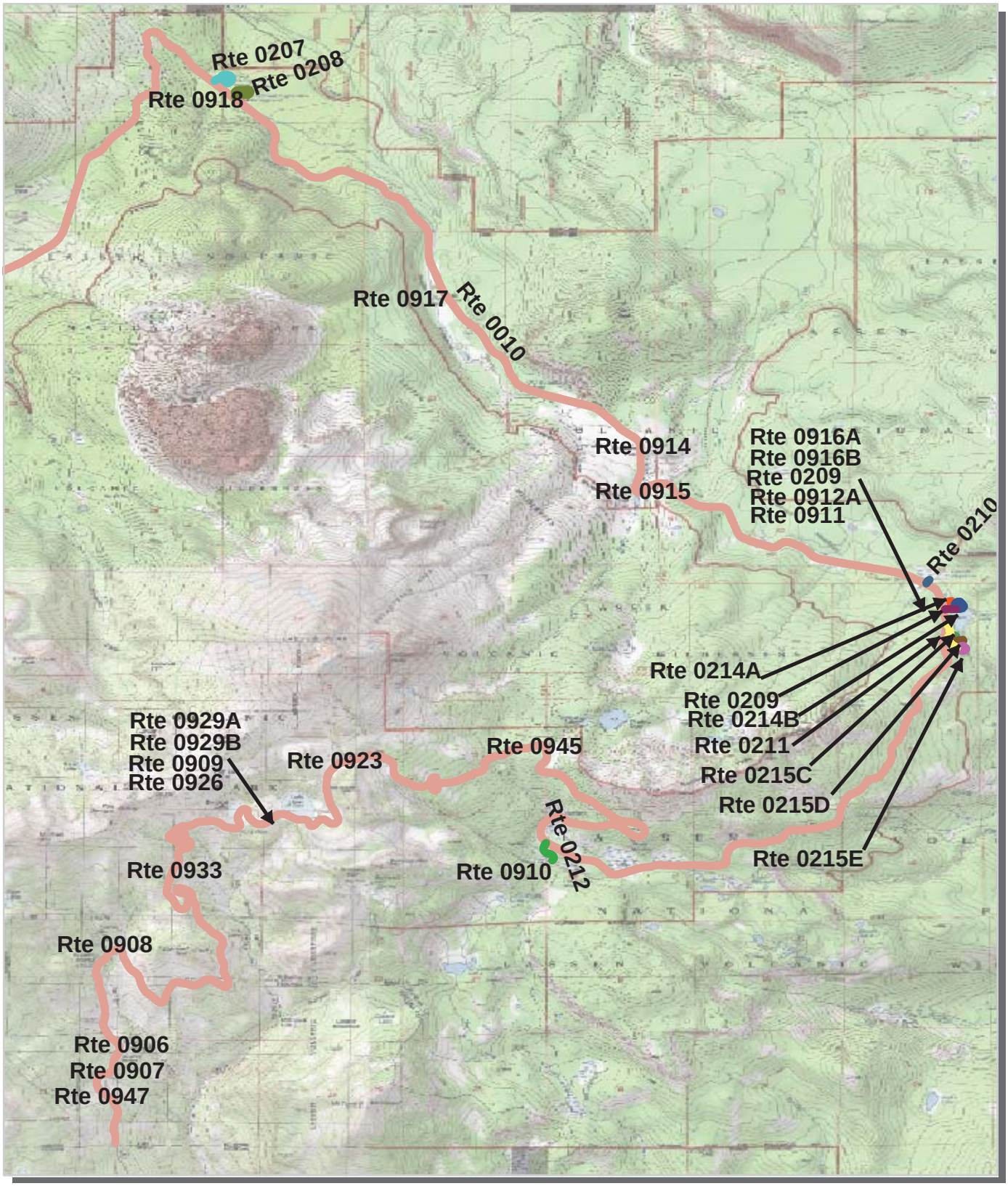


Unique colors used to differentiate routes

0.5 0.25 0 0.5 Miles

N

Lassen Volcanic National Park
Route Location
Area Map 2

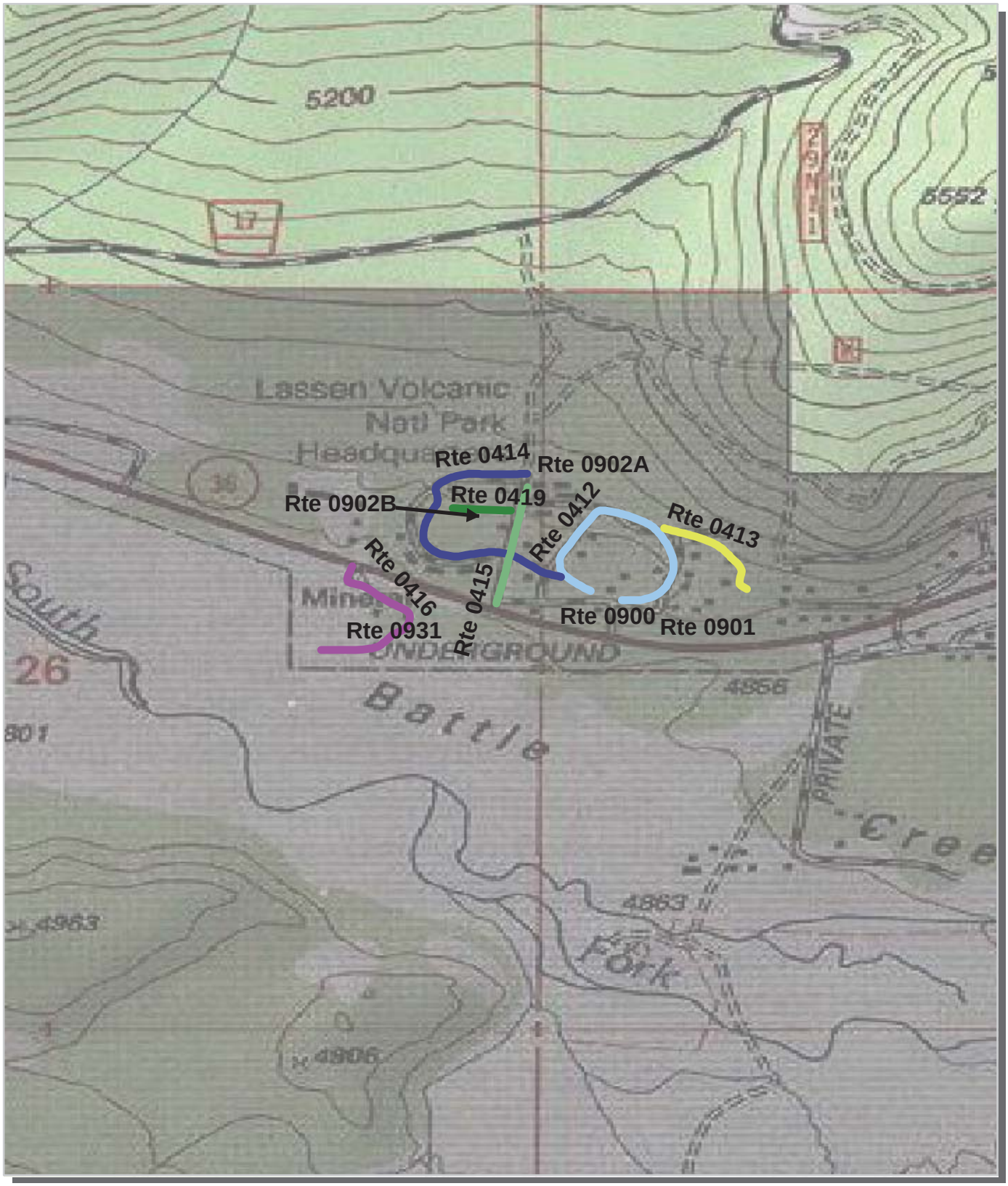


Unique colors used to differentiate routes

1 0.5 0 1 Miles

N

Lassen Volcanic National Park
Route Location
Area Map 3

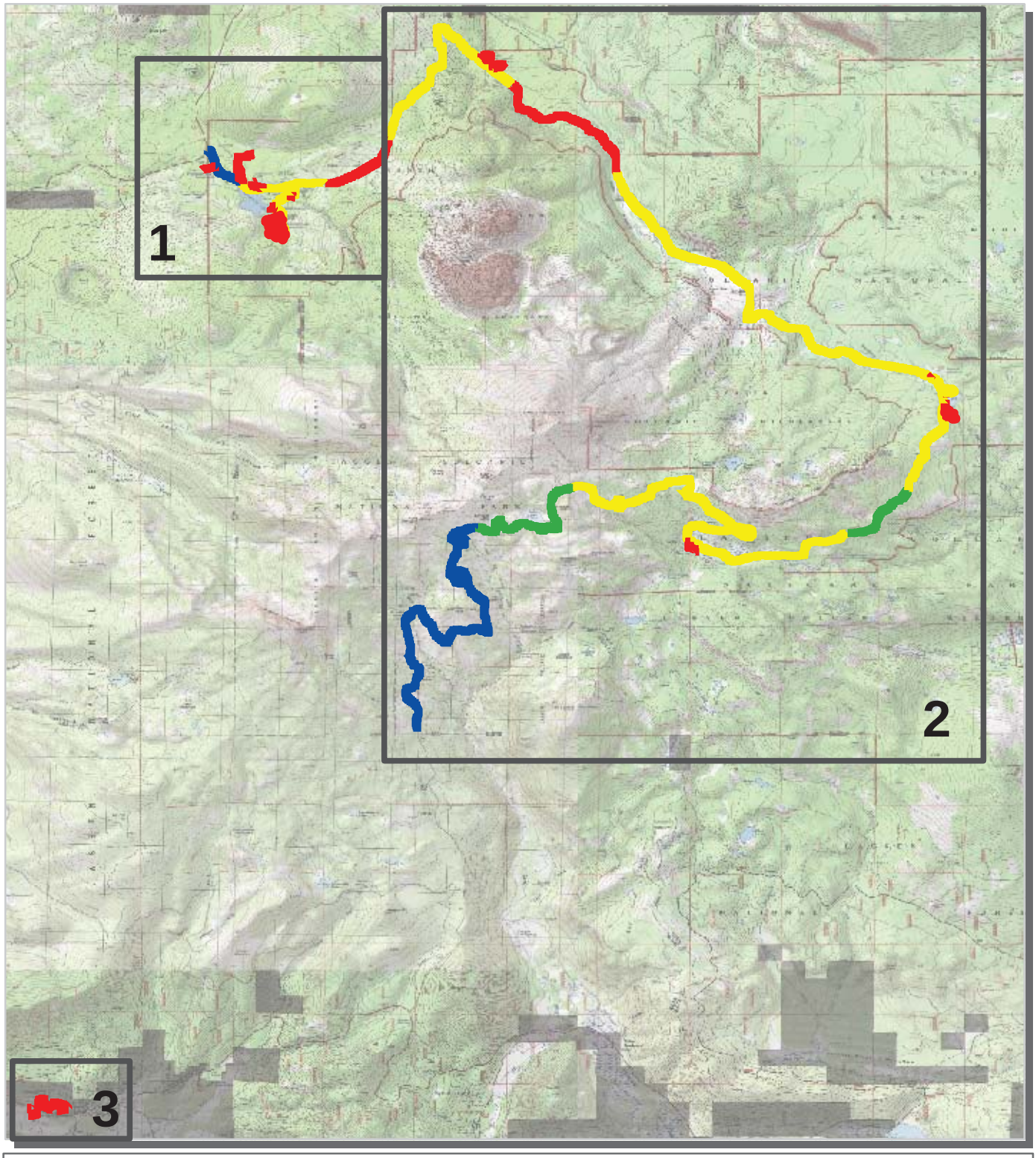


Unique colors used to differentiate routes

0.25 0.125 0 0.25 Miles

N

Lassen Volcanic National Park
Route Condition Key Map
PCR - Mile by Mile



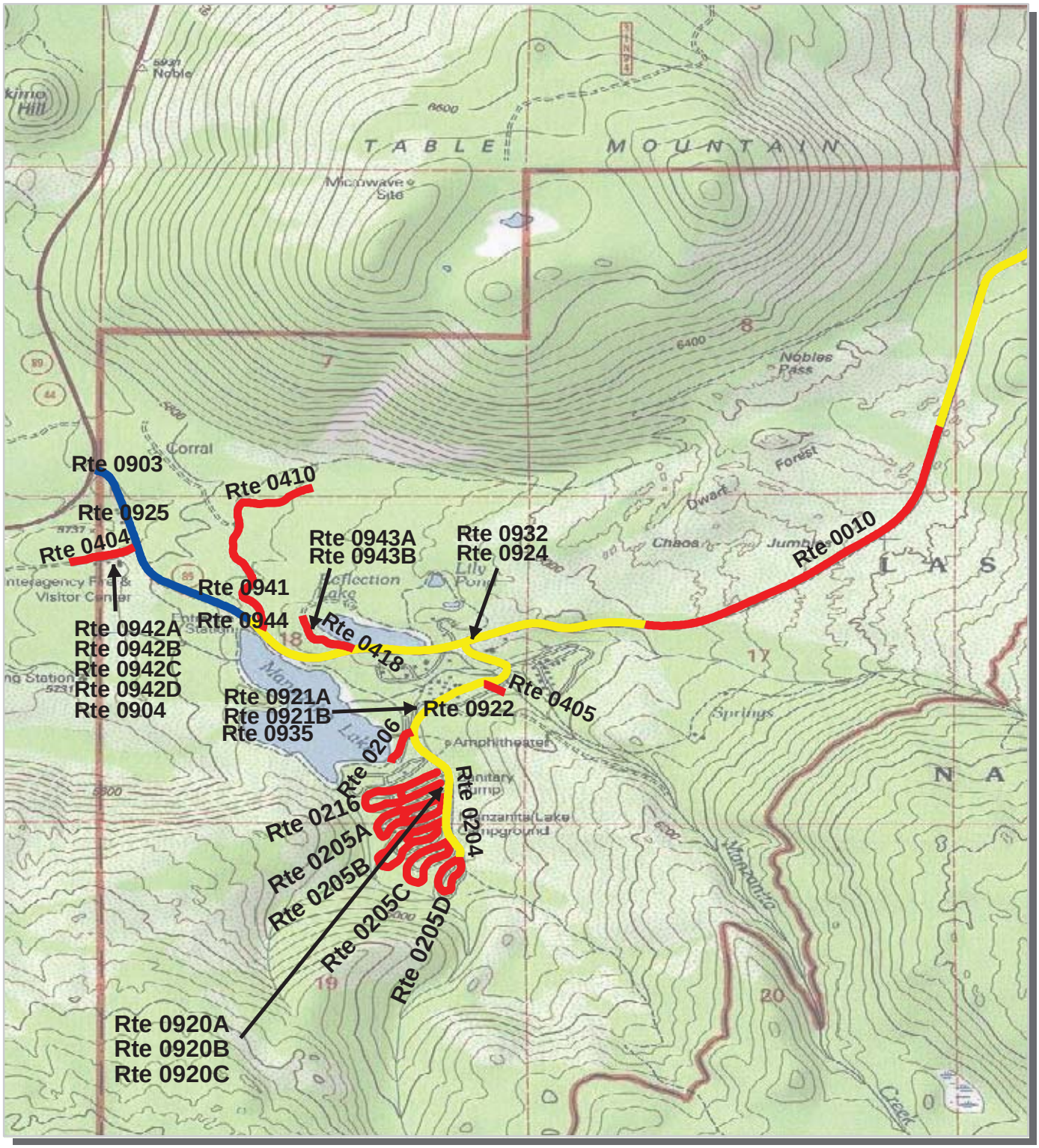
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

2 1 0 2 Miles

N

Lassen Volcanic National Park
Route Condition Area Map 1
PCR - Mile by Mile



PCR	Poor	Fair	Good	Excellent
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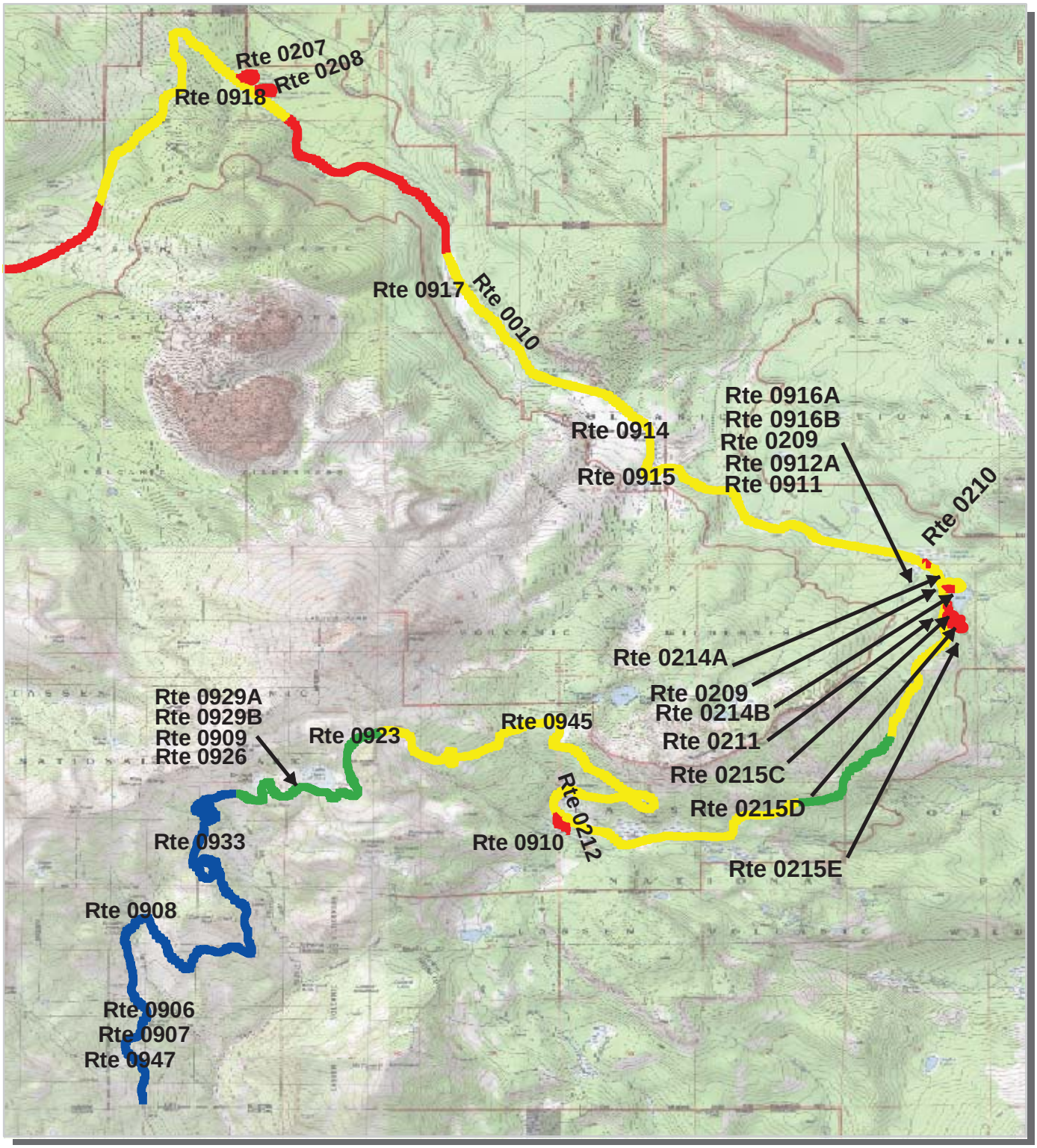
0.5 0.25 0 0.5 Miles

N

Lassen Volcanic National Park
Route Condition Area Map 2
PCR - Mile by Mile



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

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1 0.5 0 1 Miles

N

Lassen Volcanic National Park
Route Condition Area Map 3
PCR - Mile by Mile

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

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

0.25 0.125 0 0.25 Miles

N

NPS/RIP Route ID Report

(Numerical By Route #)

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Red text denotes approx. mileage

White = Paved Routes, ARAN Driven
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Purple =

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Lassen Volcanic National Park

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0010	45513	Lassen Park Road	From South Park Boundary	To State Highway 44	29.88	0.00	29.88	1		0	AS
0100	45514	Butte Lake Road	From North Park Boundary	To End of Loop	0.00	2.10	2.10	2	1	0	GR
0101	45515	Juniper Lake Road	From South Park Boundary	To Juniper Lake	0.00	4.00	4.00	2	2	0	GR
0102	73412	Warner Valley Road	From South Park Boundary	To Drakesbad	0.00	2.77	2.77	2	2	0	GR
0200	73418	Juniper Lake Campground	From Route 0101	To Campground	0.00	0.44	0.44	3	2	0	GR
0201	73421	Butte Lake Launching Ramp Road	From Route 0100	To Horse Corral Road	0.00	0.07	0.07	2	2	0	GR
0202	73426	Butte Lake Campground	From Route 0100	To Campground	0.00	1.00	1.00	3	2	0	GR
0203	73427	Butte Lake Horse Corral Road	From Route 0201	To End	0.00	0.15	0.15	2	2	0	GR
0204	73431	Manzanita Area Access Road	From Route 0010	To Route 0205D	0.88	0.00	0.88	2		0	AS
0205A		Manzanita Campground Loop A	From Route 0204	To End of loop	0.49	0.00	0.49	3	1	40,973	AS
0205B		Manzanita Campground Loop B	From Route 0204	To End of loop	0.48	0.00	0.48	2	1	27,762	AS
0205C		Manzanita Campground Loop C	From Route 0204	To End of loop	0.37	0.00	0.37	2	1	23,253	AS
0205D		Manzanita Campground Loop D	From Route 0204	To End of loop	0.24	0.00	0.24	2	1	15,206	AS
0206	73461	Manzanita Lake Access Road	From Route 0204	To End of loop	0.16	0.00	0.16	2	2	0	AS
0207	73466	Crags Campground	From Route 0010	To End of Loop	0.32	0.00	0.32	2		0	AS
0208	73471	Lost Creek Campground	From Route 0010	To End of Loop	0.30	0.00	0.30	2		0	AS
0209	73472	Summit Lake North Campground	From Route 0010	To Route 0214B	0.10	0.00	0.10	2		0	AS
0210	73397	Summit Lake Ranger Station	From Route 0010	To End	0.06	0.00	0.06	2		0	AS
0211	73475	Summit Lake South Campground	From Route 0010	To Route 0215E	0.25	0.00	0.25	2	2	0	AS
0212	73477	Kings Creek Road	From Route 0010	To Route 0910	0.24	0.24	0.48	2		0	AS
0213	73478	Warner Valley Campground	From Route 0102	To End	0.00	0.22	0.22	2	2	0	GR
0214A		Summit Lake North Campground Loop A	From Route 0209	To Route 0209	0.16	0.00	0.16	3	1	8,659	AS
0214B		Summit Lake North Campground Loop B	From End of Route 0209	To End of loop	0.20	0.00	0.20	3	1	15,761	AS
0215C		Summit Lake South Campground Loop C	From Route 0211	To Route 0211	0.12	0.00	0.12	3	1	8,305	AS
0215D		Summit Lake South Campground Loop D	From Route 0211	To Route 0211	0.18	0.00	0.18	3	1	11,595	AS
0215E		Summit Lake South Campground Loop E	From End of Route 0211	To End of loop	0.15	0.00	0.15	3	1	11,880	AS
0216	73479	Manzanita Store Loop	From Route 0920C	To Route 0920C	0.46	0.00	0.46	6	1	36,274	AS
0400	73481	Hat Creek Road	From Route 0010	To Badger Flat	0.00	6.13	6.13	4	2	0	GR
0401	73484	Butte Lake Maintenance Area Road	From Route 0100	To End	0.00	0.14	0.14	4	2	0	GR

NPS/RIP Route ID Report

(Numerical By Route #)

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Lassen Volcanic National Park

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0402	73487	Butte Lake Water Reservoir Road	From Route 0100	To End	0.00	0.21	0.21	4	2	0	GR
0404	73488	Manzanita Employee Residence Road	From Route 0010	To End	0.18	0.00	0.18	4		0	AS
0405	73493	Manzanita Water Tank Road	From Route 0204	To End of Pavement	0.08	0.00	0.08	6		0	AS
0406	73495	Crags Campground Dump	From Route 0010	To End	0.00	0.11	0.11	4	2	0	GR
0408		Baldwin Pit Road	From Route 0010	To End	0.00	0.20	0.20	6	2	0	GR
0409	73503	Summit Lake Stockpile Road	From Route 0010	To End	0.00	0.19	0.19	4	2	0	GR
0410	73508	Summertown Road	From Route 0010	To End	0.64	0.00	0.64	6		0	AS
0411	73511	Butte Lake Dumpster Road	From Route 0100	To End	0.00	0.49	0.49	4	2	0	GR
0412	73514	Lassen Headquarters / Residence Loop Road	From Route 0900	To Route 0900	0.36	0.00	0.36	4		0	AS
0413	73516	Lassen Headquarters / Residence Loop Road	From Route 0412	To End of Loop	0.18	0.00	0.18	4		0	AS
0414	73520	Lassen Headquarters / Residence Loop Road	From End of Route 0415	To Route 0412	0.36	0.00	0.36	4	2	0	AS
0415	73580	Maintenance Access Road (Old Viola Road)	From State Highway 36	To End	0.20	0.00	0.20	4	2	0	AS
0416	73585	Maintenance Service Road	From State Highway 36	To End of Pavement	0.24	0.00	0.24	6		0	AS
0417	73589	Lost Creek Helicopter Pad Road	From Route 0010	To End	0.00	0.25	0.25	6	1	0	GR
0418	73591	Reflection Lake Road	From Route 0010	To End of Loop	0.38	0.00	0.38	6		0	AS
0419		Lassen Fire Road	From Route 0414	To Route 0415	0.09	0.00	0.09	6	2	0	AS
0700	80159	Water Treatment Road SW	From	To	0.00	0.50	0.50	ZZ		0	GR
0701	80160	Water Treatment Road SL	From	To	0.00	1.00	1.00	ZZ		0	GR
0702	80161	Water Treatment Road LC	From	To	0.00	2.00	2.00	ZZ		0	GR
0703	81691	Water Treatment Road Drakesbad WV	From	To	0.00	0.25	0.25	ZZ		0	GR
0704	81693	Water Treatment Road WVRS	From	To	0.00	0.20	0.20	ZZ		0	GR
0900	73597	Lassen Headquarters Parking	From State Highway 36	To Route 0412	0.00	0.00	0.00	9	0	21,907	AS
0901	73601	Naturalist Division Annex Parking	Adjacent To Route 0412		0.00	0.00	0.00	9	0	8,438	AS
0902A		Park Headquarters Ranger / Maintenance Parking A	From Route 0412	To Route 0414	0.00	0.00	0.00	9	0	81,229	AS
0902B		Park Headquarters Ranger / Maintenance Parking B	Adjacent to Route 0419		0.00	0.00	0.00	9	0	4,068	AS
0903	73610	Northwest Entrance Trailhead Parking	Adjacent to Route 0010 at MP 29.6		0.00	0.00	0.00	9	0	26,933	AS
0904	73616	Northwest Park Maintenance Parking	Adjacent to Route 0404		0.00	0.00	0.00	9	0	18,061	AS
0906	73618	Southwest Information Station Parking	Adjacent to Route 0010 at MP 1.1		0.00	0.00	0.00	9	0	130,735	AS
0907	73619	Southwest Entrance Kiosk Parking	Adjacent to Route 0010 at MP 1		0.00	0.00	0.00	9	0	9,263	AS

NPS/RIP Route ID Report

(Numerical By Route #)

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Lassen Volcanic National Park

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0908	73621	Sulphur Works Parking	From Route 0010 at MP 1.9	To Route 0010	0.00	0.00	0.00	9	0	37,125	AS
0909	73623	Lake Helen Picnic Area Loop	Adjacent to Route 0010 at MP 7.0		0.00	0.00	0.00	9	0	13,775	AS
0910	73625	Kings Creek Picnic Area Turnout Parking	Adjacent to Route 0212		0.00	0.00	0.00	9	0	3,324	AS
0911	73626	Summit Lake South Campground Parking	Adjacent to Route 0215C		0.00	0.00	0.00	9	0	2,179	AS
0912A		Summit Lake North Campground Parking A	Adjacent to Route 0209		0.00	0.00	0.00	9	0	3,398	AS
0912B		Summit Lake North Campground Parking B	At End of Route 0209 on right		0.00	0.00	0.00	9	0	1,791	AS
0913		Summit Lake Ranger Station Parking	Adjacent to Route 0010		0.00	0.00	0.00	9	0	0	GR
0914	73633	Devastated Area Interpretive Trail Parking	Adjacent to Route 0010 at MP 19.7		0.00	0.00	0.00	9	0	22,027	AS
0915	73635	Hat Lake Parking	Adjacent to Route 0010 at MP 19.2		0.00	0.00	0.00	9	0	6,373	AS
0916A		Dersch Meadows Pullout Parking A	Adjacent to Route 0010 at MP 16.84 on right		0.00	0.00	0.00	9	0	1,859	AS
0916B		Dersch Meadows Pullout Parking B	Adjacent to Route 0010 at MP 16.87 on left		0.00	0.00	0.00	9	0	1,253	AS
0917	73638	Hot Rock Parking	Adjacent to Route 0010 at MP 21.65		0.00	0.00	0.00	9	0	5,564	AS
0918	73640	Lost Creek Group Camp Parking	Adjacent to Route 0208		0.00	0.00	0.00	9	0	1,696	AS
0919	73642	Crags Parking	Adjacent to Route 0207		0.00	0.00	0.00	9	0	1,751	AS
0920A		Manzanita Store Spur Parking A	Adjacent to Route 0204 on left		0.00	0.00	0.00	9	0	4,913	AS
0920B		Manzanita Store Spur Parking B	Adjacent to Route 0204 on right		0.00	0.00	0.00	9	0	3,733	AS
0920C		Manzanita Store Spur Parking C	From Route 0204 on right	To Route 0204	0.00	0.00	0.00	9	0	13,261	AS
0921A		Manzanita Lake Access Parking A	Adjacent to Route 0206		0.00	0.00	0.00	9	0	5,701	AS
0921B		Manzanita Lake Access Parking B	Adjacent to Route 0206		0.00	0.00	0.00	9	0	6,757	AS
0922	73648	Manzanita Dump Station Parking	From Route 0204	To Route 0204	0.00	0.00	0.00	9	0	10,863	AS
0923	73649	Lassen Peak Trailhead Loop Parking	Adjacent to Route 0010 at MP 7.9		0.00	0.00	0.00	9	0	98,005	AS
0924	73651	Loomis Museum Parking	From Route 0010	To Route 0204	0.00	0.00	0.00	9	0	24,346	AS
0925	73652	Old Visitor Center Parking	Adjacent to Route 0010 at MP 29.5		0.00	0.00	0.00	9	0	4,032	AS
0926	73653	Bumpass Parking	Adjacent to Route 0010 at MP 6.7		0.00	0.00	0.00	9	0	36,679	AS
0927		Baldwin Pit Parking	At End of Route 0408		0.00	0.00	0.00	9	0	0	GR
0928		Ball Field Parking	Adjacent to Route 0416		0.00	0.00	0.00	9	0	0	GR
0929A		Emerald Lake Picnic Area Parking A	Adjacent to Route 0010 at MP 6.2		0.00	0.00	0.00	9	0	5,029	AS
0929B		Emerald Lake Picnic Area Parking B	Adjacent to Route 0010 at MP 6.3		0.00	0.00	0.00	9	0	4,766	AS
0931	73660	Maintenance Service RV Parking	Adjacent to Route 0416		0.00	0.00	0.00	9	0	8,569	AS

NPS/RIP Route ID Report

(Numerical By Route #)

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LAVO

Lassen Volcanic National Park

Rte. #	FMSS Asset #	Route Name	Route Description From	To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0932	73662	Lily Pond Trailhead Parking	From Route 0010 at MP 28.47	To End of Loop	0.00	0.00	0.00	9	0	6,467	OC
0933	73663	Little Hot Springs Overlook Parking	Adjacent To Route 0010 at MP 5		0.00	0.00	0.00	9	0	14,075	OT
0935	73665	Manzanita Old Restroom Parking	Adjacent To Route 0204		0.00	0.00	0.00	9	0	1,390	AS
0936		Chaos Crags Trailhead Parking	Adjacent to Route 0204		0.00	0.00	0.00	9	0	0	GR
0937		Summit Lake Trailhead Parking	At End of Route 0210		0.00	0.00	0.00	9	0	0	GR
0938		Kings Creek Trailhead Parking	At End of Route 0212		0.00	0.00	0.00	9	0	0	GR
0939		Kings Creek Parking	Adjacent to Route 0212		0.00	0.00	0.00	9	0	0	GR
0940		Manzanita Service Parking	Adjacent to Route 0410		0.00	0.00	0.00	9	0	0	GR
0941	73671	Manzanita Service Parking	Adjacent to Route 0410		0.00	0.00	0.00	9	0	3,121	OC
0942A		Manzanita Residence Parking A	Adjacent to Route 0404 at MP 0.08 on right		0.00	0.00	0.00	9	0	2,056	AS
0942B		Manzanita Residence Parking B	Adjacent to Route 0404 at MP 0.16 on right		0.00	0.00	0.00	9	0	3,213	AS
0942C		Manzanita Residence Parking C	Adjacent to Route 0404 at MP 0.14 on left		0.00	0.00	0.00	9	0	4,894	AS
0942D		Manzanita Residence Parking D	Adjacent to Route 0404 at MP 0.11 on left		0.00	0.00	0.00	9	0	2,194	AS
0943A		Reflection Lake Parking A	Adjacent to Route 0418 at end loop		0.00	0.00	0.00	9	0	1,182	OC
0943B		Reflection Lake Parking B	Adjacent to Route 0418 at end loop		0.00	0.00	0.00	9	0	5,249	OC
0944	73677	Northwest Entrance Station Parking	Adjacent to Route 0010 at MP 29		0.00	0.00	0.00	9	0	1,814	AS
0945	73678	Terrace Lake Parking	Adjacent to Route 0010 at MP 9.7		0.00	0.00	0.00	9	0	5,270	AS
0946		Lake Helen Parking	Adjacent to Route 0909		0.00	0.00	0.00	9	0	0	GR
0947		Trail Head Parking	Adjacent to Route 0010 at MP 0.5		0.00	0.00	0.00	9	0	8,793	OT
				Totals:	37.74	22.66	**60.40**			888,790	

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
Red text denotes approx. mileage

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

General Park Road Functional Classification Table

Class 1 Principal Park Road/Rural Parkway (Public Roads) Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Invetoried for Park. Route Numbers 5000-5999

Class 2 Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.

Class 3 Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.

Class 4 Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.
Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.

Class 5 Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.

Class 6 Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499.
Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.

Class 7 Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.

Class 8 City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

Class 9 Boat Ramp - (Public and Administrative) Route Numbers 800-899.
Parking Area - (Public and Administrative) Route Numbers 900-1999.

****

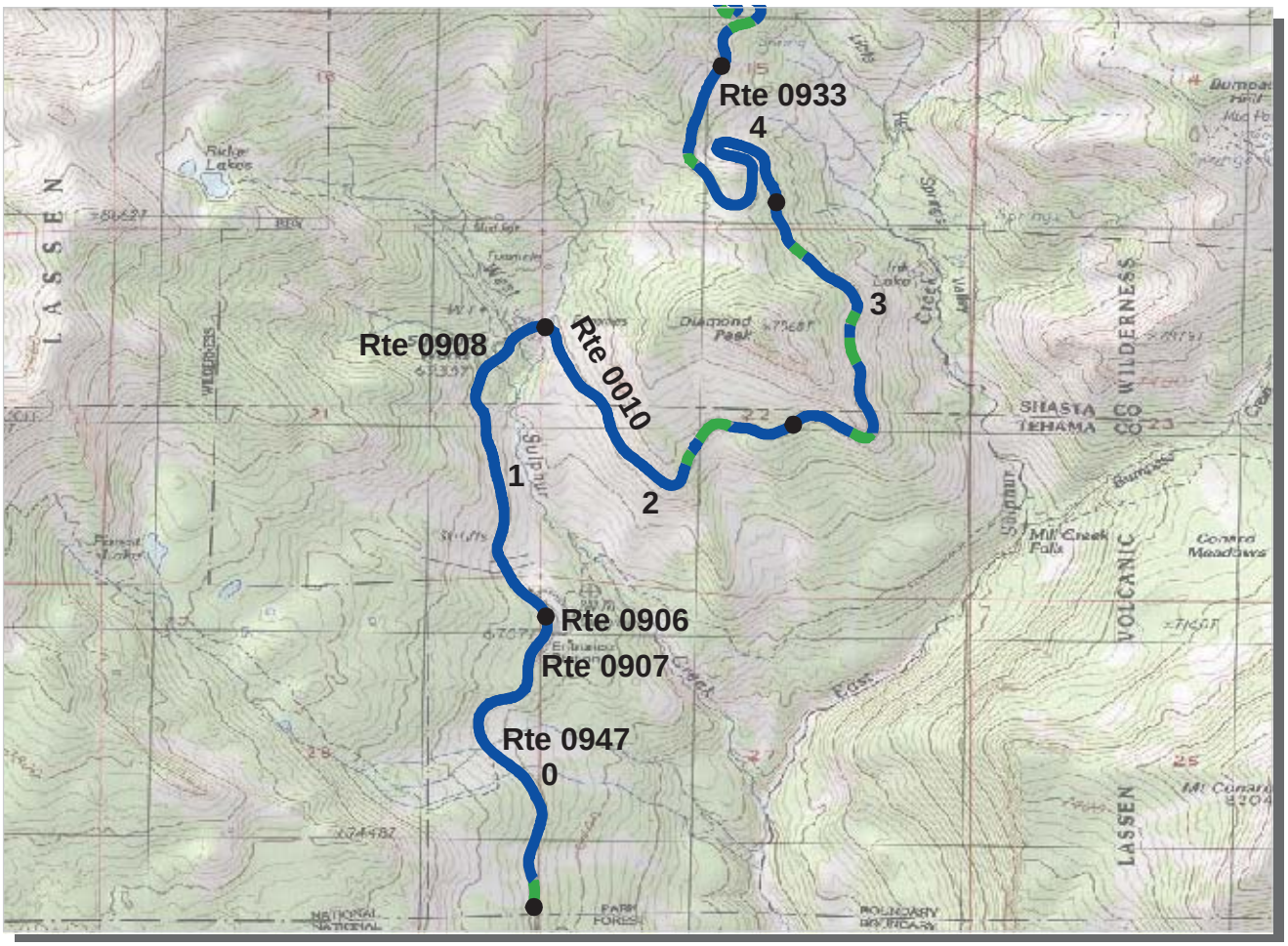
A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed,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

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

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

Surface Type Abbreviations:

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



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

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

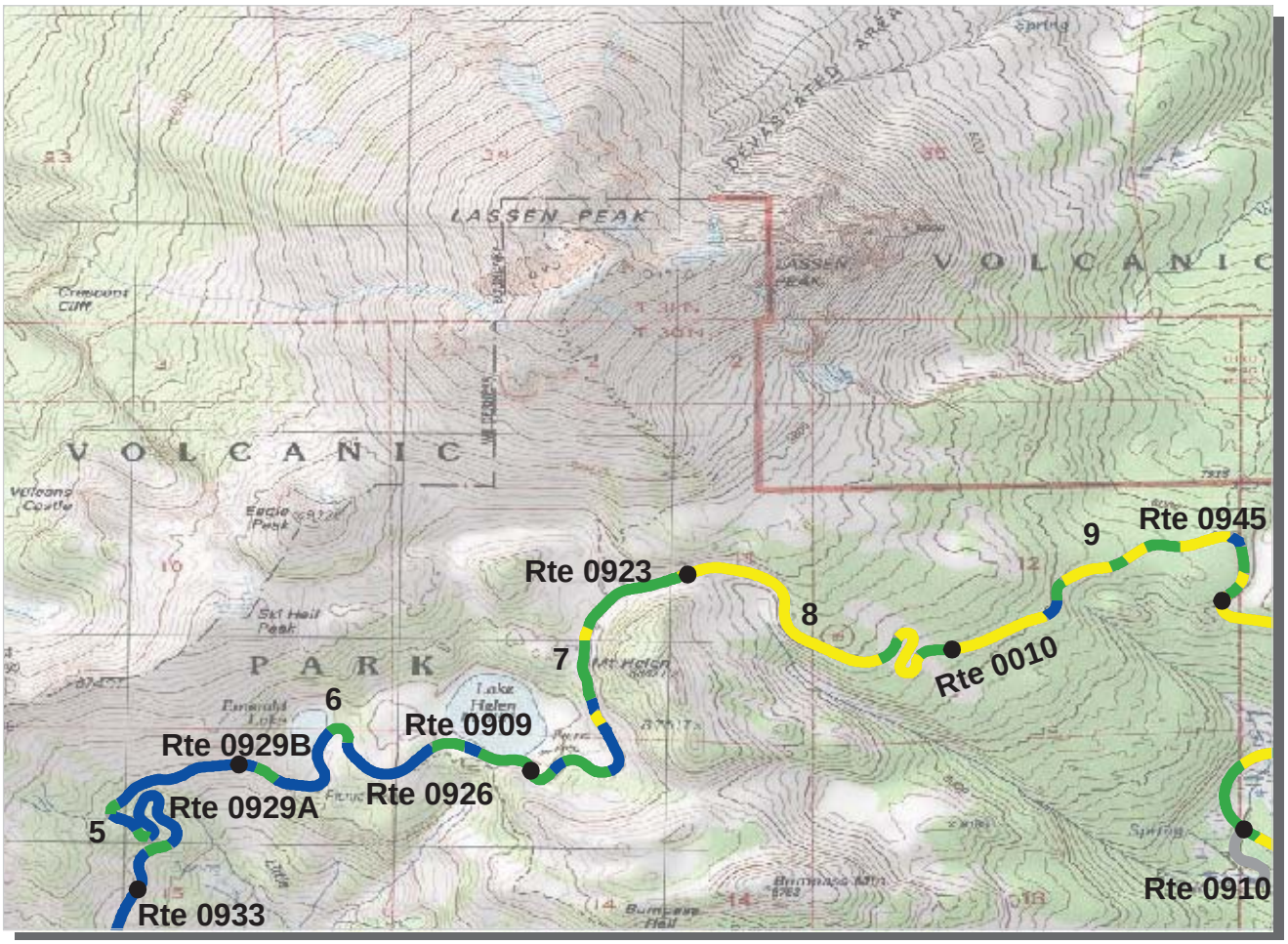
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0010 Lassen Park Road **TOTAL LENGTH: 29.63 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	24	21	22	24
Lane Width (ft)	11	13	11	11	12
Shoulder Width (ft)	0	0	0	5	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	96	97	96	96	97
RCI (Roughness Condition Index)	99	99	98	97	98
SCR (Surface Condition Rating)	95	96	95	95	96
Alligator Cracking Index	100	100	100	100	100
Rutting Index	95	96	95	95	96
Patching Index	100	100	99	100	100
Tranverse Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	100	100	100	100	100
Shoulder Condition Rating	N/A	N/A	N/A	N/C	N/C
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

* NC designates data not collected N/A designates not applicable

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



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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0010 Lassen Park Road **TOTAL LENGTH: 29.63 Miles**

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	21	20	21	21
Lane Width (ft)	10	10	10	11	12
Shoulder Width (ft)	4	4	0	0	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	96	94	89	79	82
RCI (Roughness Condition Index)	97	94	91	90	94
SCR (Surface Condition Rating)	95	94	88	71	75
Alligator Cracking Index	100	100	100	100	100
Rutting Index	95	95	88	72	75
Patching Index	100	99	99	99	99
Tranverse Cracking Index	100	99	99	99	99
Longitudinal Cracking Index	99	99	99	99	100
Shoulder Condition Rating	N/C	GOOD	N/A	N/A	N/C
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

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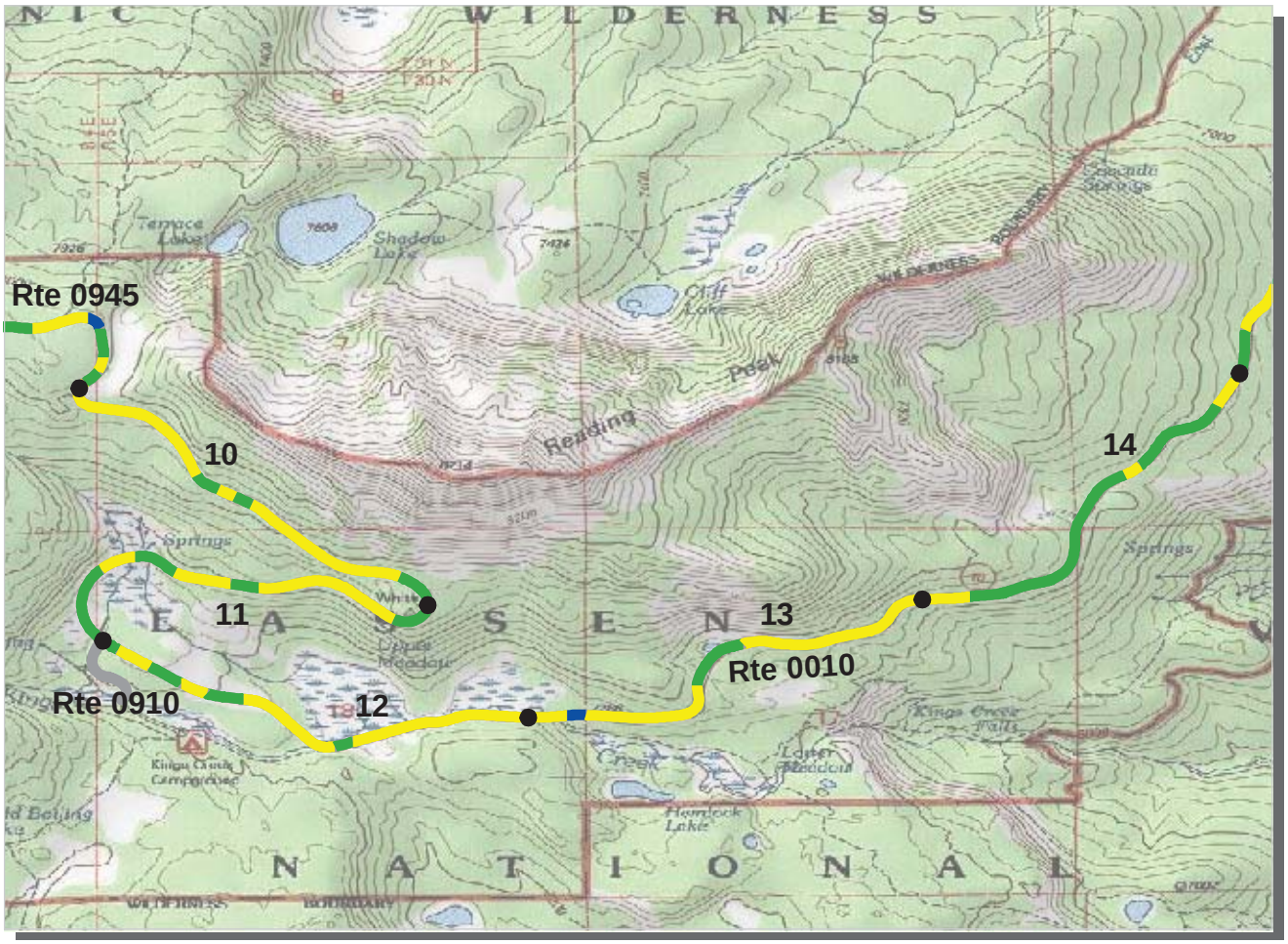

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0010 Lassen Park Road **TOTAL LENGTH: 29.63 Miles**

Section Number	10	11	12	13	14
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	19	20	18	18	19
Lane Width (ft)	9	10	10	9	9
Shoulder Width (ft)	4	5	0	4	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	80	83	79	78	85
RCI (Roughness Condition Index)	88	90	91	82	95
SCR (Surface Condition Rating)	75	77	72	75	79
Alligator Cracking Index	100	100	100	100	100
Rutting Index	75	78	72	75	79
Patching Index	99	100	99	99	99
Tranverse Cracking Index	99	99	99	100	99
Longitudinal Cracking Index	99	99	100	99	100
Shoulder Condition Rating	N/C	N/C	N/A	N/C	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

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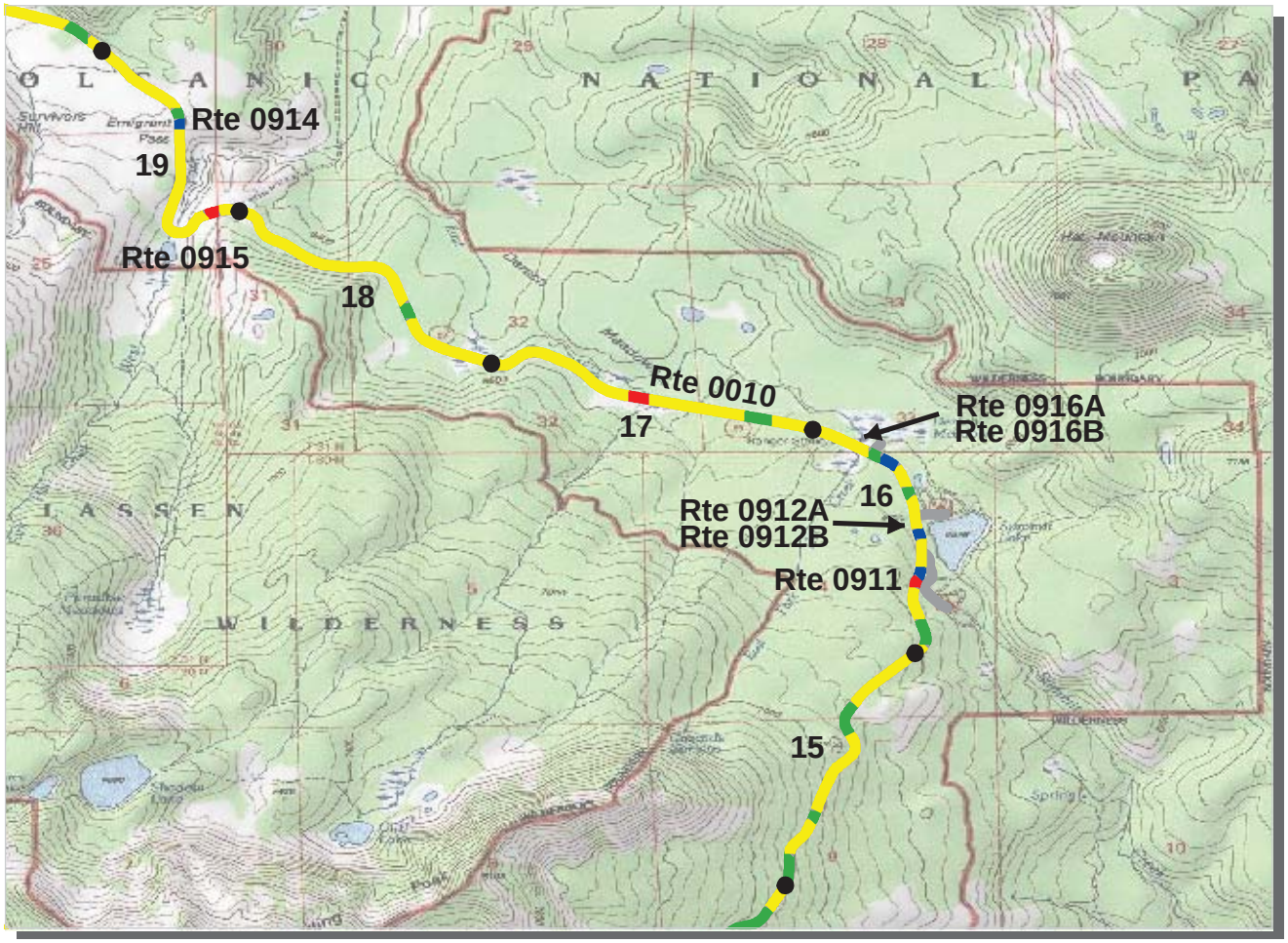

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0010 Lassen Park Road **TOTAL LENGTH: 29.63 Miles**

Section Number	15	16	17	18	19
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	19	19	19	19
Lane Width (ft)	10	10	9	9	9
Shoulder Width (ft)	5	5	3	3	3
Roadway Condition Information					
PCR (Pavement Condition Rating)	82	81	74	75	75
RCI (Roughness Condition Index)	94	88	88	84	89
SCR (Surface Condition Rating)	75	77	65	69	66
Alligator Cracking Index	100	100	99	100	100
Rutting Index	75	78	65	71	69
Patching Index	100	99	99	100	99
Tranverse Cracking Index	99	99	99	99	97
Longitudinal Cracking Index	99	99	99	99	99
Shoulder Condition Rating	N/C	N/C	N/C	N/C	N/C
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

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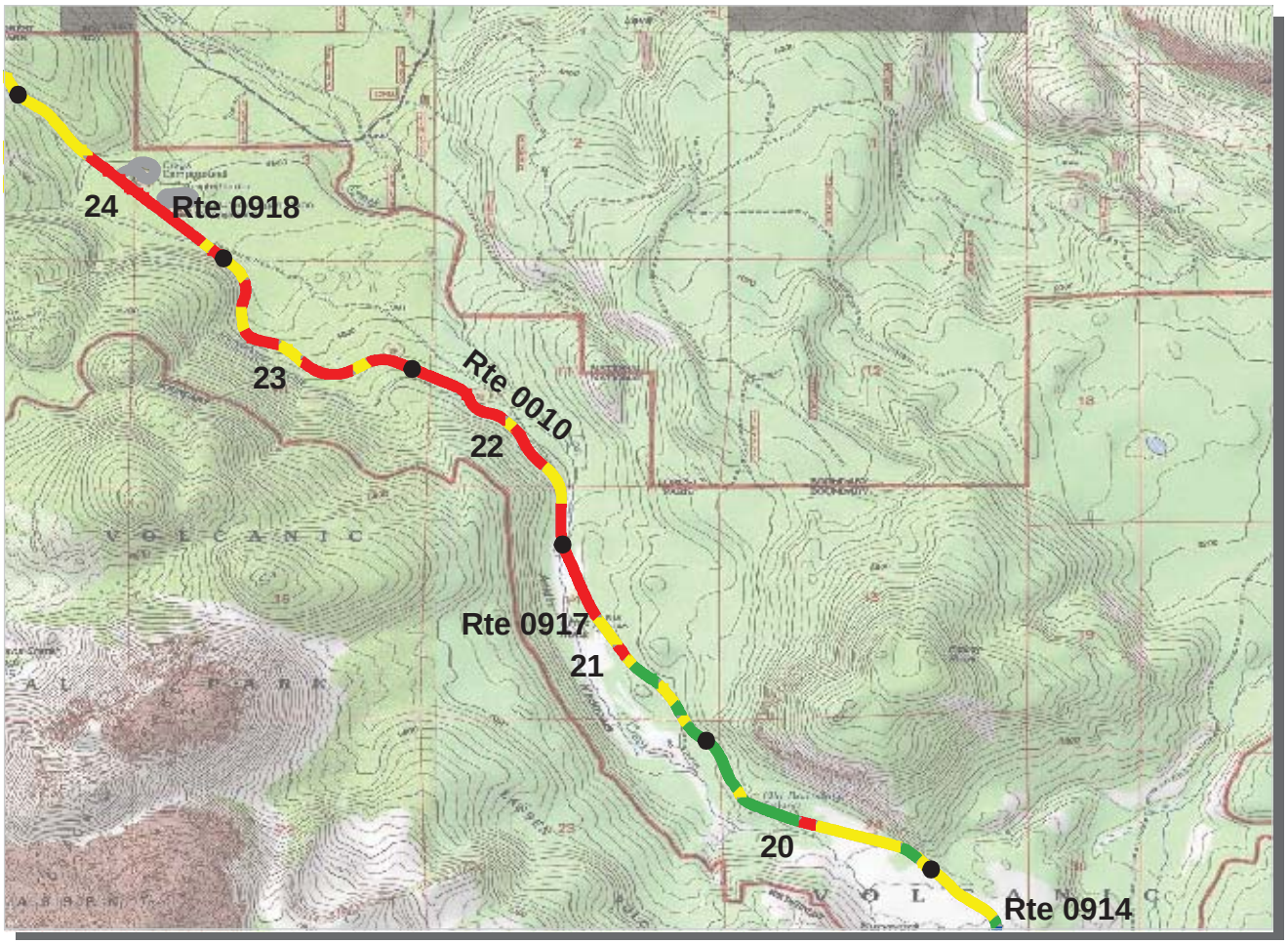

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0010 Lassen Park Road **TOTAL LENGTH: 29.63 Miles**

Section Number	20	21	22	23	24
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	19	19	19	19	19
Lane Width (ft)	10	10	9	9	10
Shoulder Width (ft)	0	0	3	4	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	81	65	52	56	62
RCI (Roughness Condition Index)	87	77	66	67	73
SCR (Surface Condition Rating)	76	57	42	48	54
Alligator Cracking Index	100	98	97	97	99
Rutting Index	78	68	60	63	65
Patching Index	99	99	99	99	99
Tranverse Cracking Index	98	94	90	91	92
Longitudinal Cracking Index	99	96	94	95	97
Shoulder Condition Rating	N/A	N/A	N/C	N/C	N/C
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

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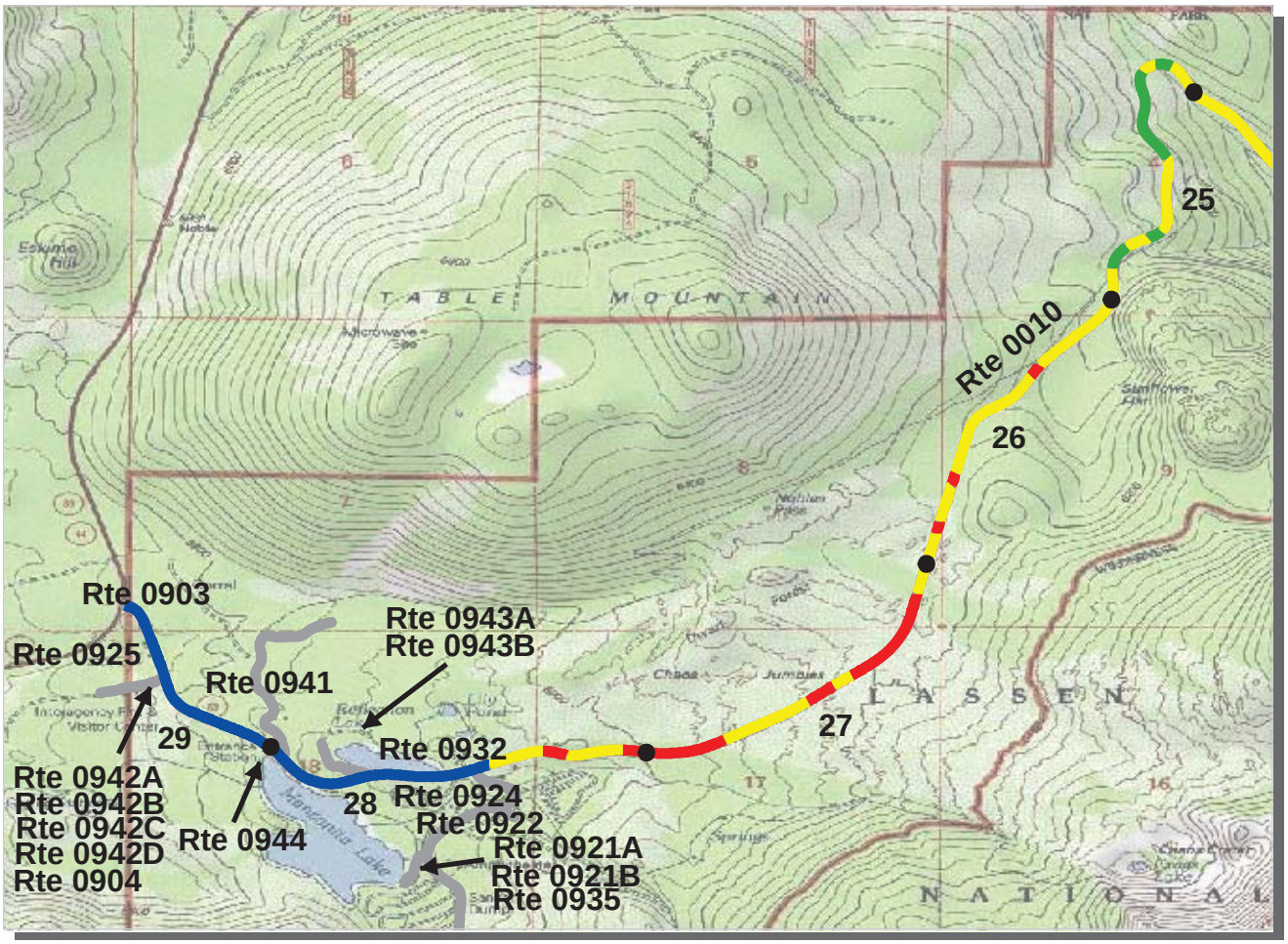

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0010 Lassen Park Road **TOTAL LENGTH: 29.63 Miles**

Section Number	25	26	27	28	29
Section Length (mi)	1.00	1.00	1.00	1.00	0.63
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	19	20	19	21	23
Lane Width (ft)	10	10	9	9	11
Shoulder Width (ft)	0	5	4	4	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	81	66	55	81	97
RCI (Roughness Condition Index)	93	86	77	85	100
SCR (Surface Condition Rating)	73	53	41	79	96
Alligator Cracking Index	99	99	99	99	100
Rutting Index	77	58	52	82	96
Patching Index	99	99	99	99	100
Tranverse Cracking Index	96	96	92	97	100
Longitudinal Cracking Index	99	98	96	98	100
Shoulder Condition Rating	N/A	N/C	N/C	N/C	N/C
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

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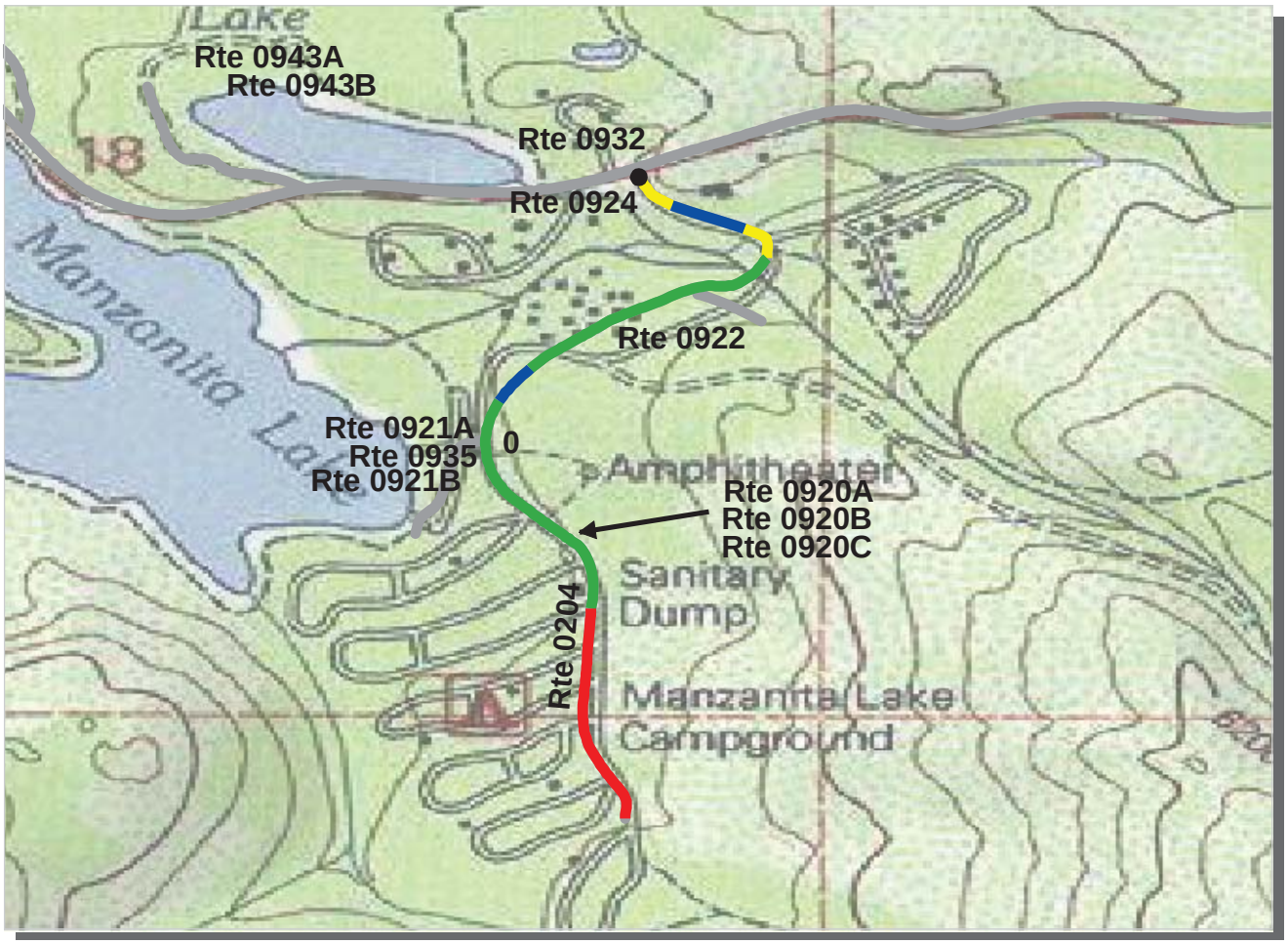

PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0204 Manzanita Area Access Road **TOTAL LENGTH: 0.87 Miles**

Section Number	0				
Section Length (mi)	0.87				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	11				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	70				
RCI (Roughness Condition Index)	75				
SCR (Surface Condition Rating)	71				
Alligator Cracking Index	96				
Rutting Index	79				
Patching Index	99				
Tranverse Cracking Index	96				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/C				
Drainage Condition Rating	GOOD				

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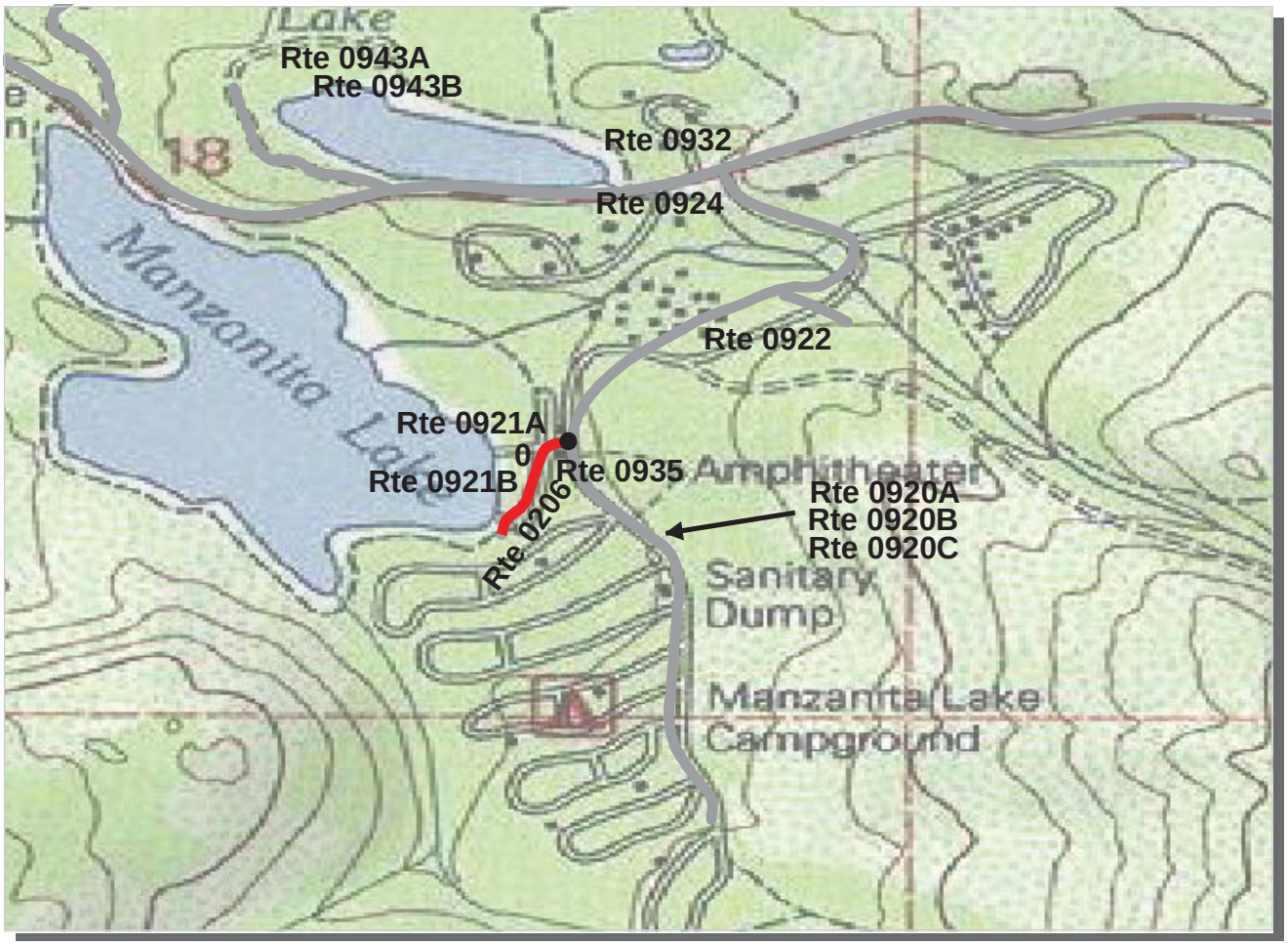

PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0206 Manzanita Lake Access Road **TOTAL LENGTH: 0.14 Miles**

Section Number	0				
Section Length (mi)	0.14				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	38				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	38				
Alligator Cracking Index	99				
Rutting Index	55				
Patching Index	100				
Tranverse Cracking Index	90				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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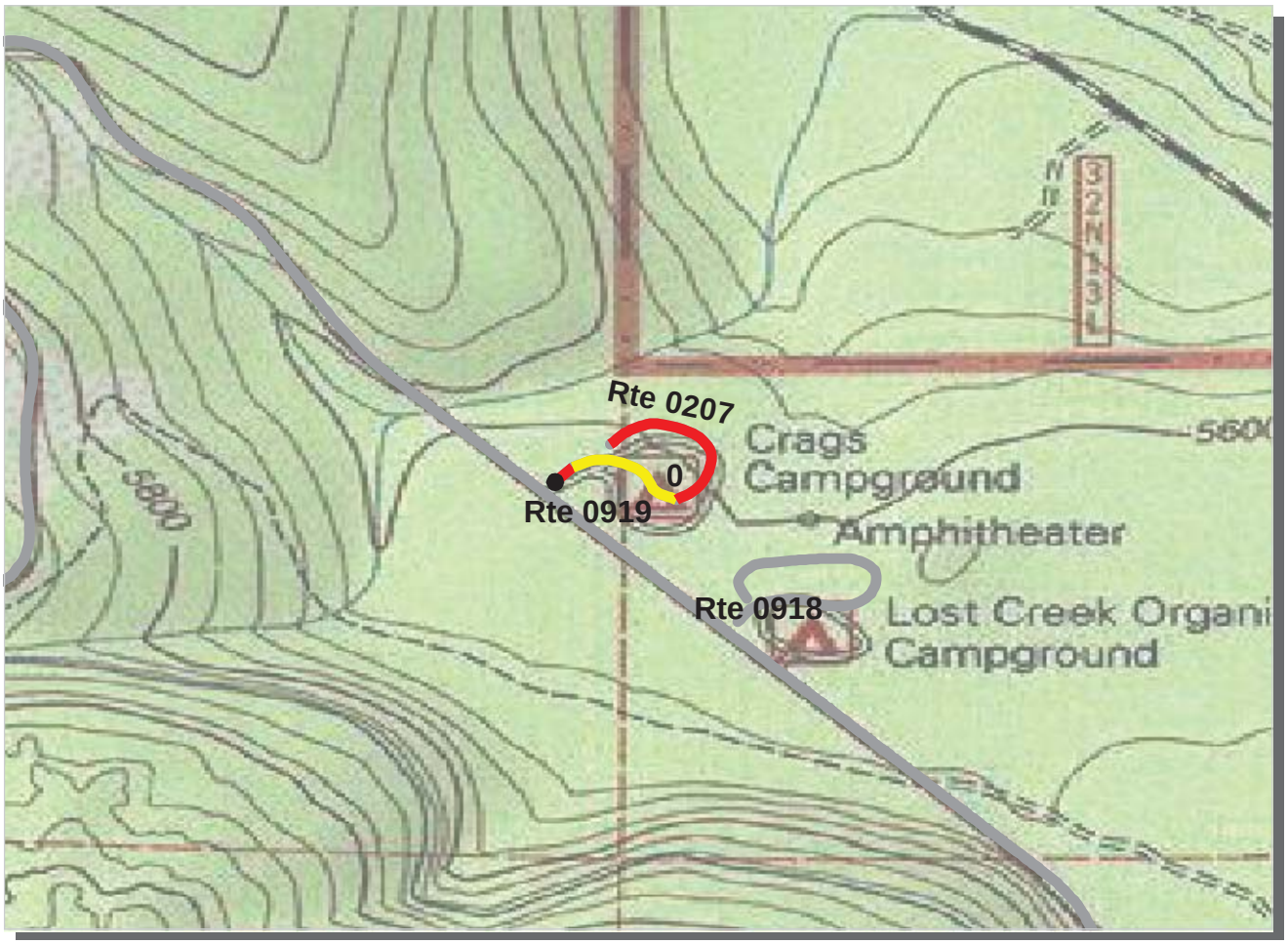

PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0207 Crags Campground **TOTAL LENGTH: 0.30 Miles**

Section Number	0				
Section Length (mi)	0.30				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	16				
Lane Width (ft)	16				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	31				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	31				
Alligator Cracking Index	92				
Rutting Index	51				
Patching Index	93				
Tranverse Cracking Index	94				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

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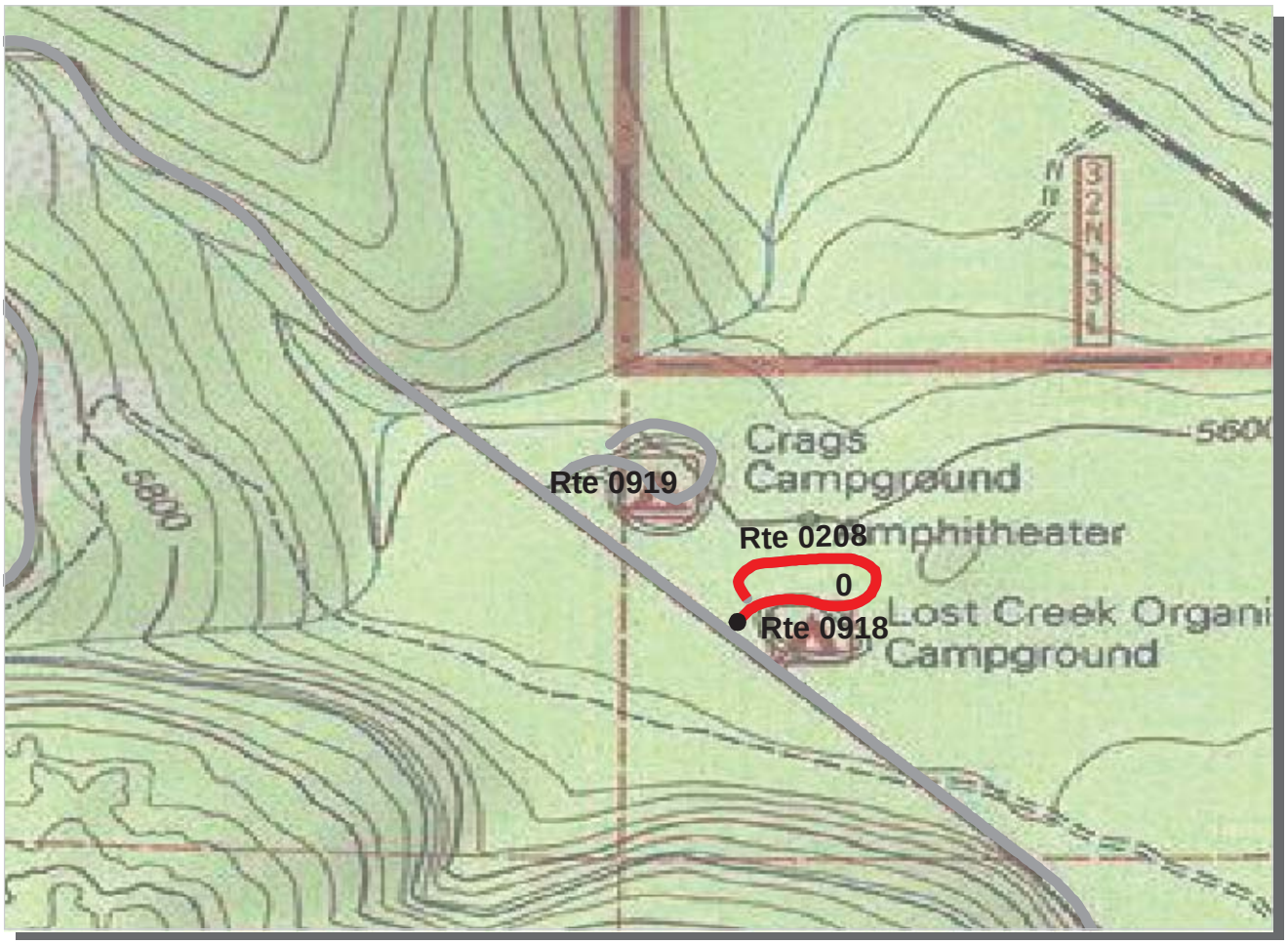

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0208 Lost Creek Campground **TOTAL LENGTH: 0.30 Miles**

Section Number	0				
Section Length (mi)	0.30				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	24				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	24				
Alligator Cracking Index	80				
Rutting Index	44				
Patching Index	99				
Tranverse Cracking Index	93				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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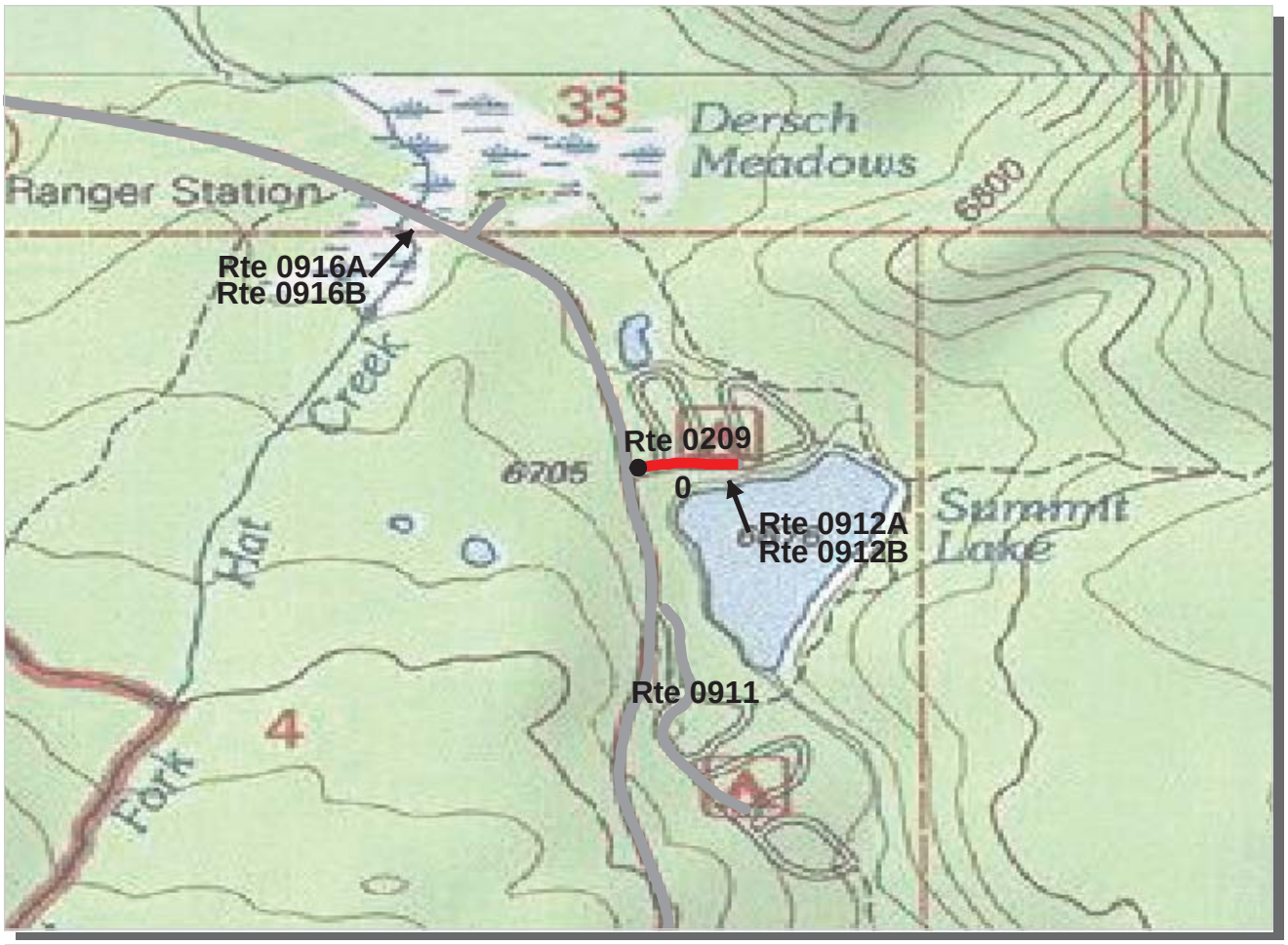

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Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0209 Summit Lake North Campground **TOTAL LENGTH: 0.09 Miles**

Section Number	0				
Section Length (mi)	0.09				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	16				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	31				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	31				
Alligator Cracking Index	95				
Rutting Index	38				
Patching Index	99				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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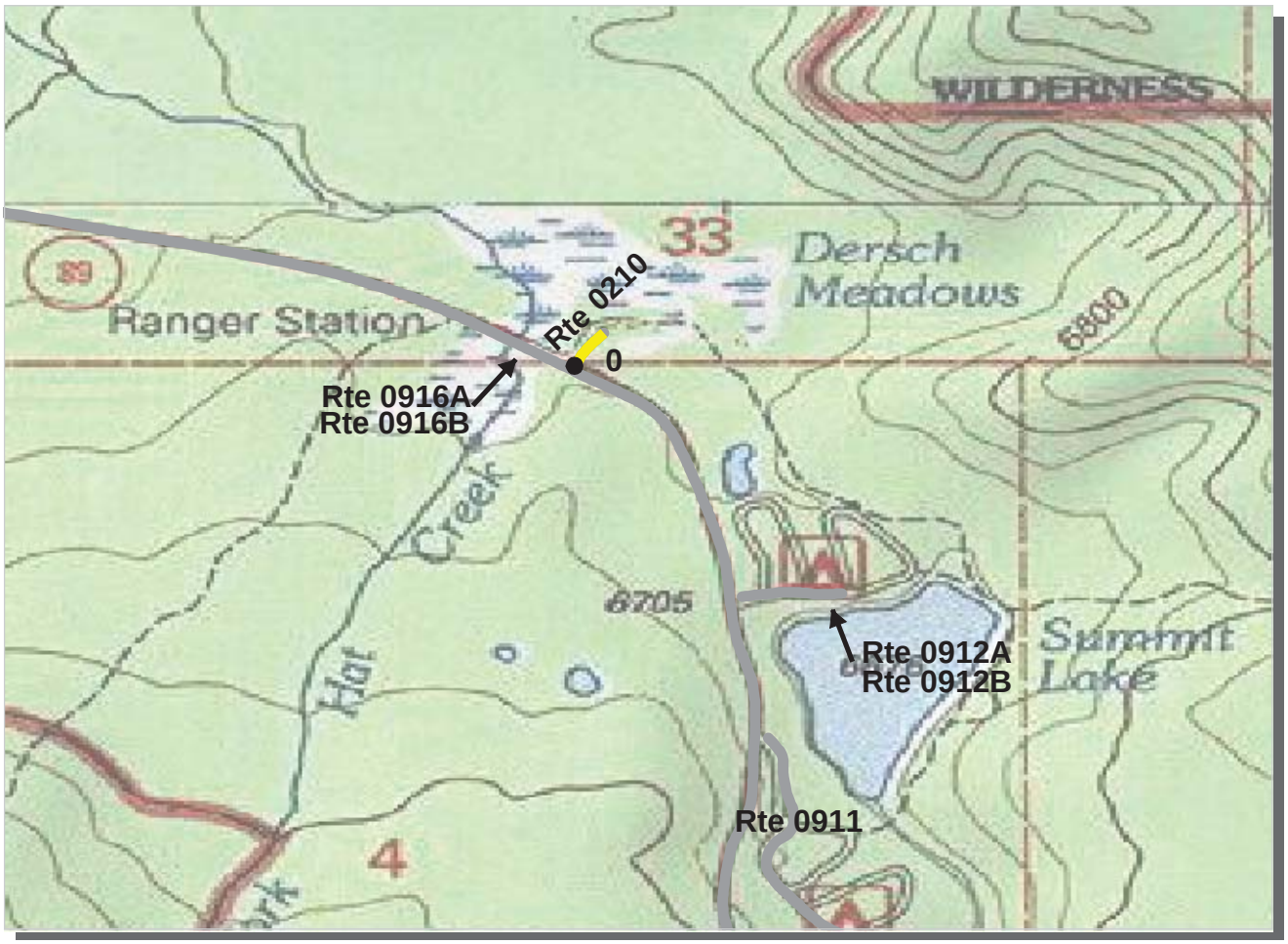
** See website for traffic data: http://www.efl.fhwa.dot.gov/nps/index.htm

ROUTE: 0209 Summit Lake North Campground



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

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

Pacific West Region
LAVO : Lassen Volcanic National Park

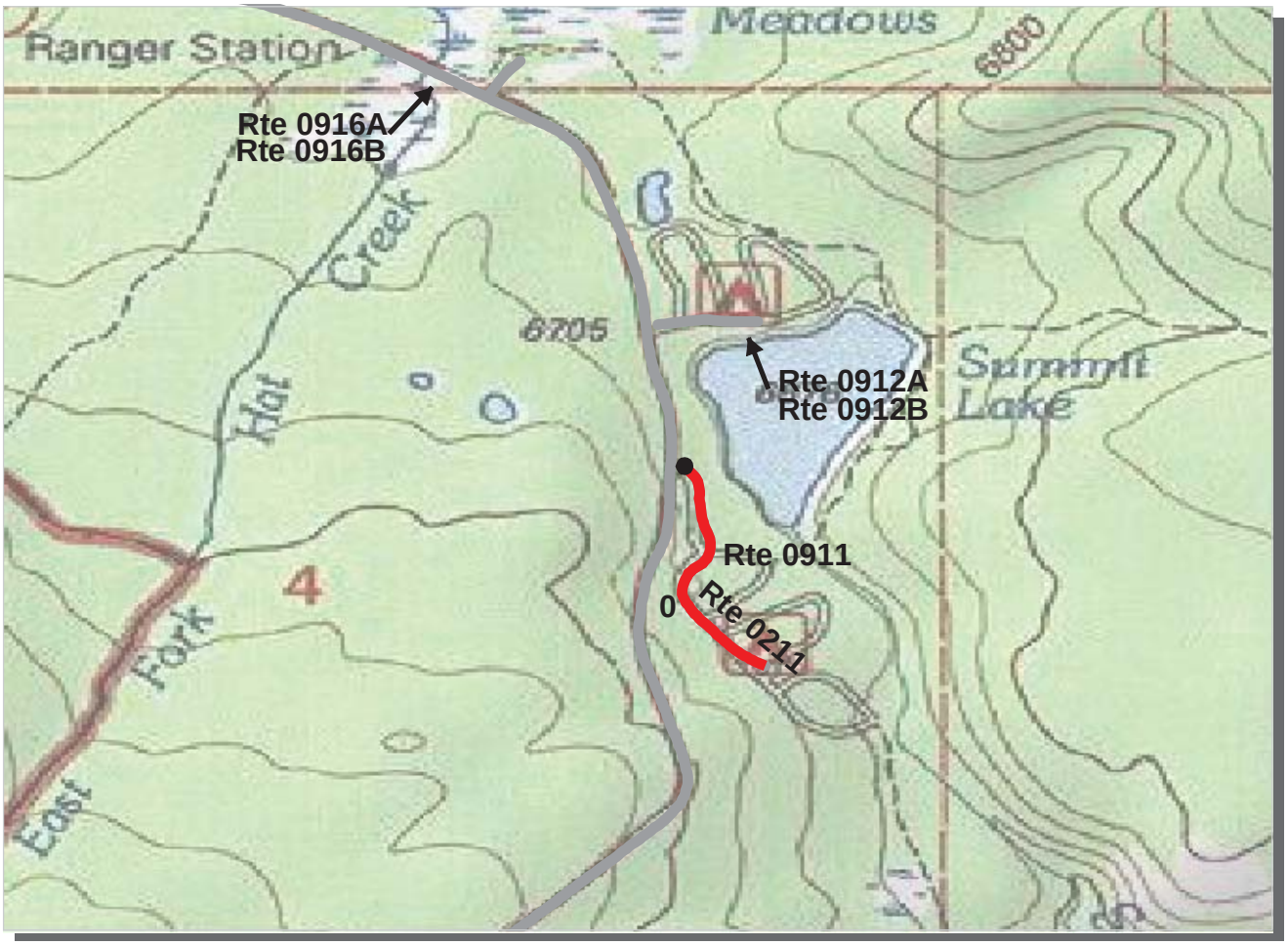
ROUTE: 0210 Summit Lake Ranger Station **TOTAL LENGTH: 0.06 Miles**

Section Number	0				
Section Length (mi)	0.06				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	41				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	41				
Alligator Cracking Index	86				
Rutting Index	57				
Patching Index	97				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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

ROUTE: 0210 Summit Lake Ranger Station



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

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

Pacific West Region
LAVO : Lassen Volcanic National Park

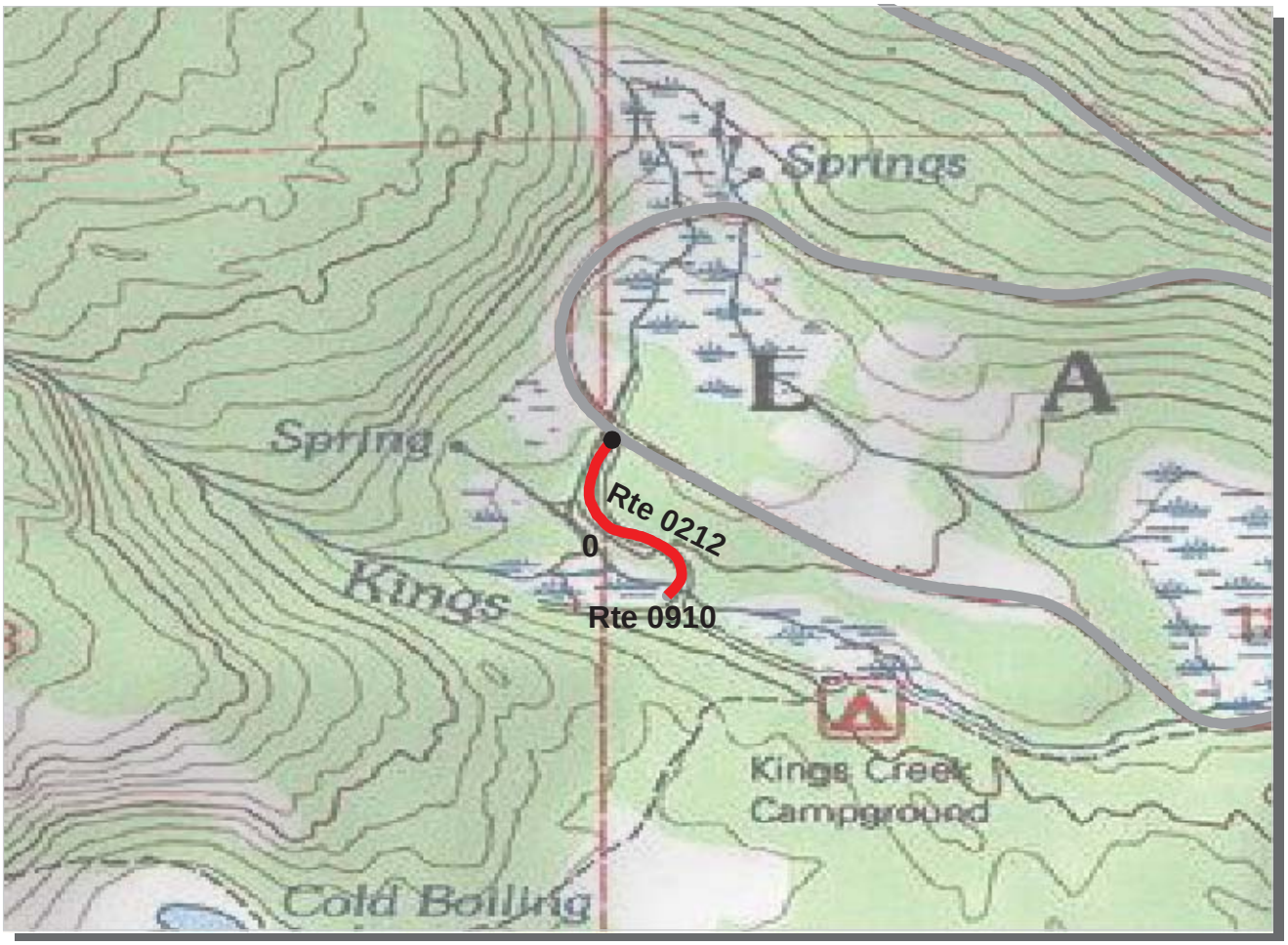
ROUTE: 0211 Summit Lake South Campground **TOTAL LENGTH: 0.25 Miles**

Section Number	0				
Section Length (mi)	0.25				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	16				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	7				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	7				
Alligator Cracking Index	78				
Rutting Index	34				
Patching Index	96				
Tranverse Cracking Index	90				
Longitudinal Cracking Index	94				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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

ROUTE: 0211 Summit Lake South Campground



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

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

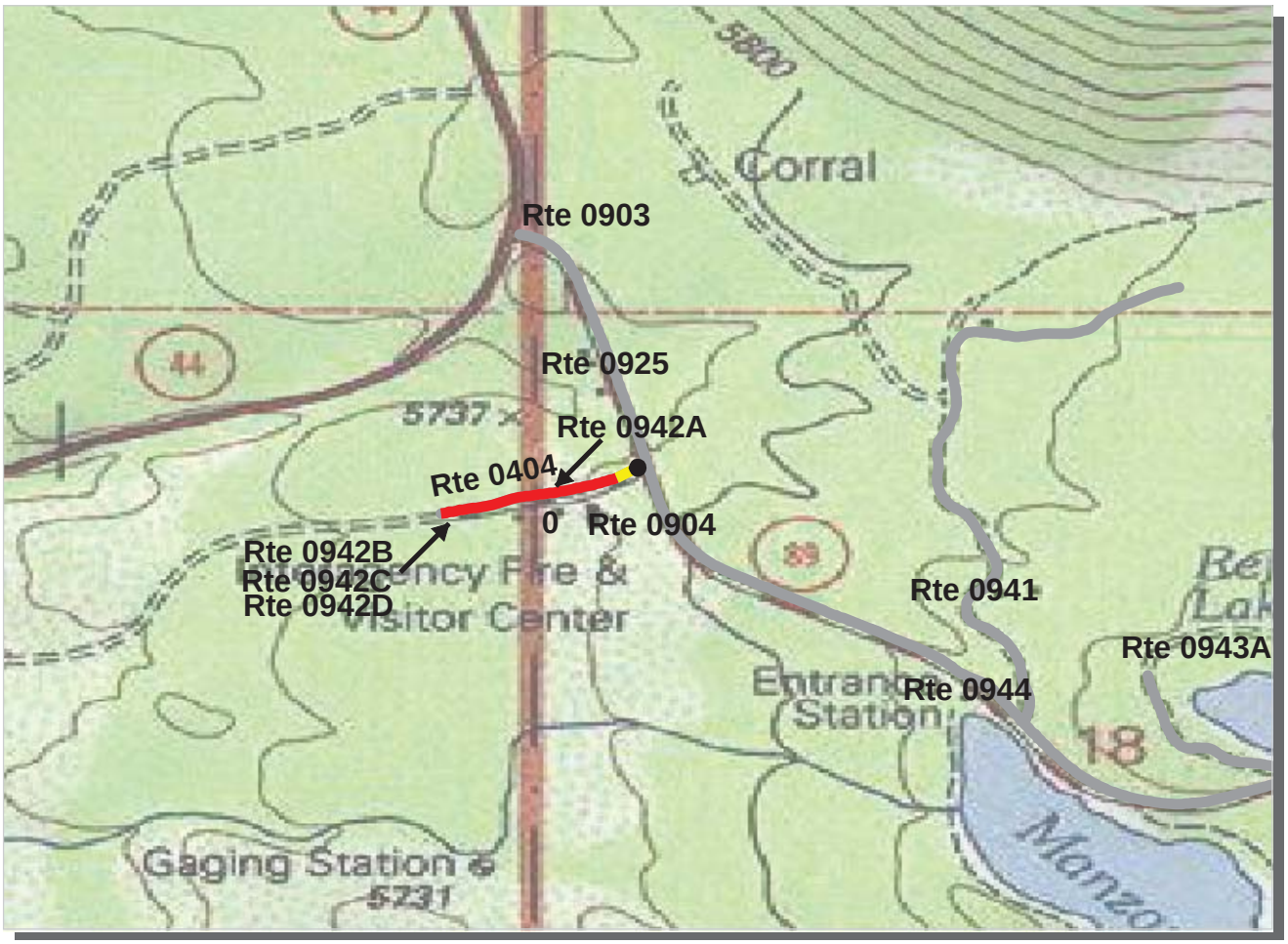
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0212 Kings Creek Road **TOTAL LENGTH: 0.21 Miles**

Section Number	0				
Section Length (mi)	0.21				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	30				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	30				
Alligator Cracking Index	75				
Rutting Index	57				
Patching Index	99				
Tranverse Cracking Index	93				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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



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

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

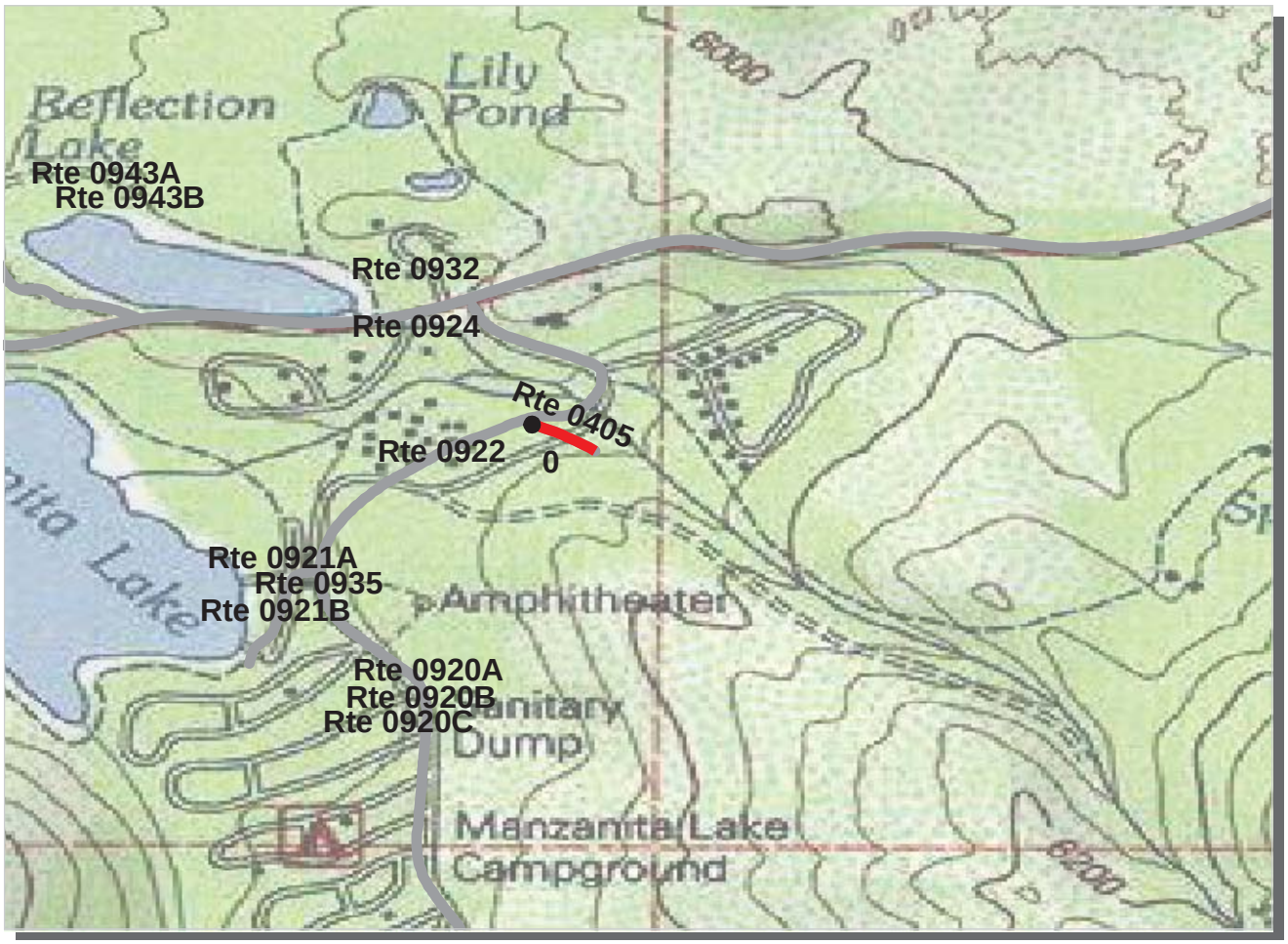
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0404 Manzanita Employee Residence Road **TOTAL LENGTH: 0.17 Miles**

Section Number	0				
Section Length (mi)	0.17				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	7				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	7				
Alligator Cracking Index	16				
Rutting Index	47				
Patching Index	99				
Tranverse Cracking Index	98				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

* NC designates data not collected N/A designates not applicable

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



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

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

Pacific West Region
LAVO : Lassen Volcanic National Park

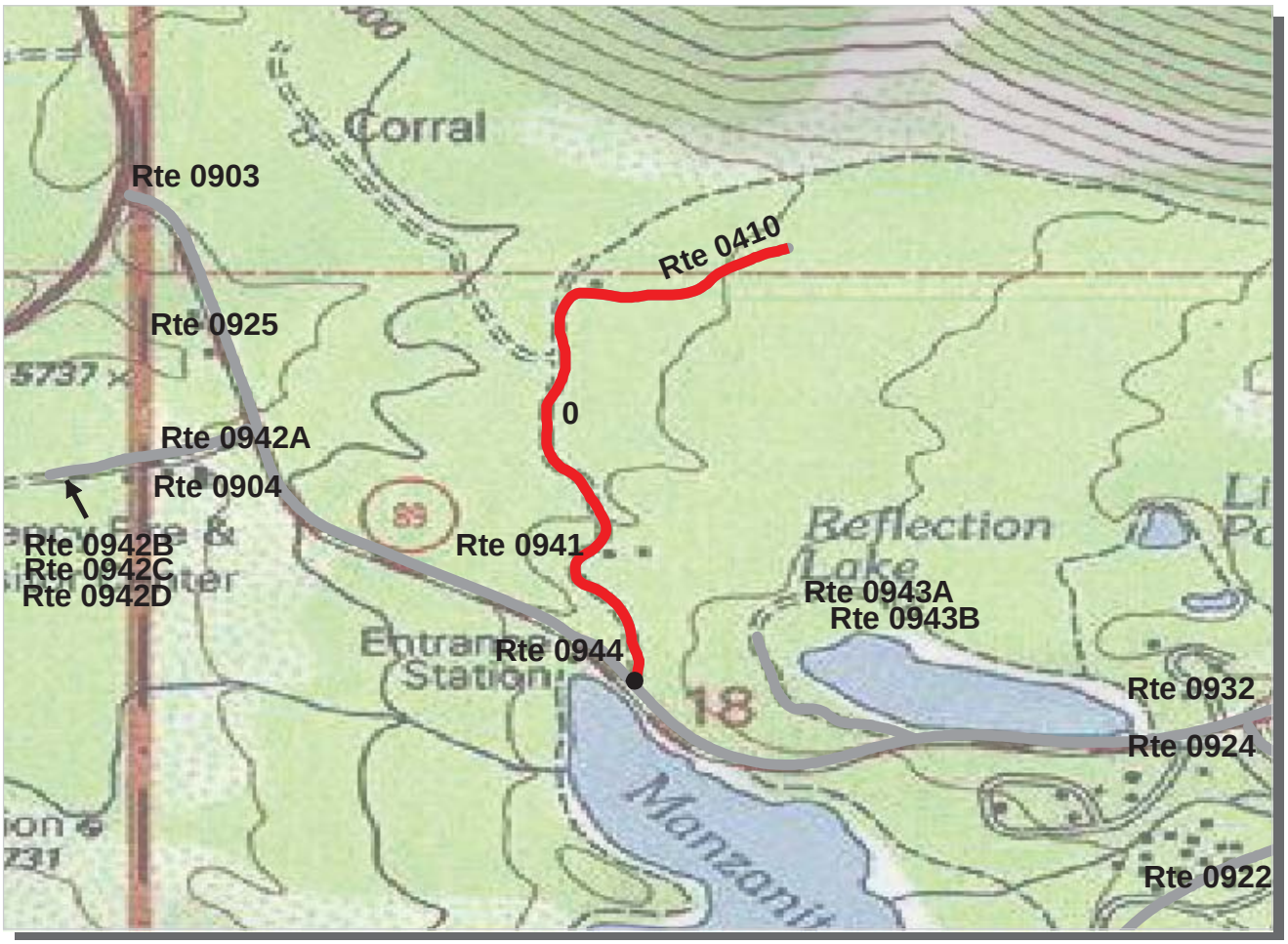
ROUTE: 0405 Manzanita Water Tank Road **TOTAL LENGTH: 0.08 Miles**

Section Number	0				
Section Length (mi)	0.08				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	26				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	26				
Alligator Cracking Index	100				
Rutting Index	28				
Patching Index	99				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

* NC designates data not collected N/A designates not applicable

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

ROUTE: 0405 Manzanita Water Tank Road



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

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

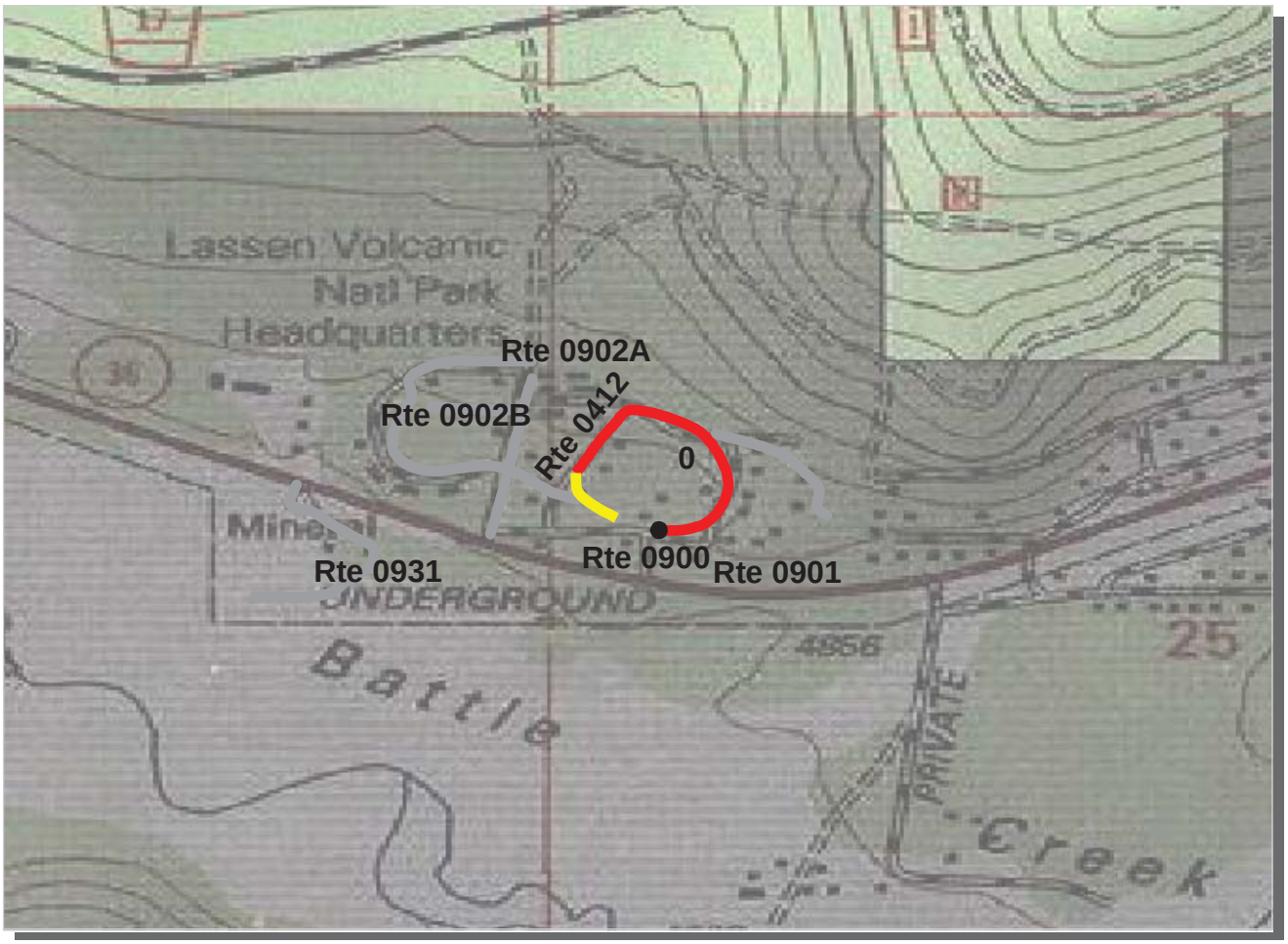
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0410 Summertown Road **TOTAL LENGTH: 0.64 Miles**

Section Number	0				
Section Length (mi)	0.64				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	12				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	12				
Alligator Cracking Index	94				
Rutting Index	23				
Patching Index	99				
Tranverse Cracking Index	95				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

* NC designates data not collected N/A designates not applicable

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



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

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

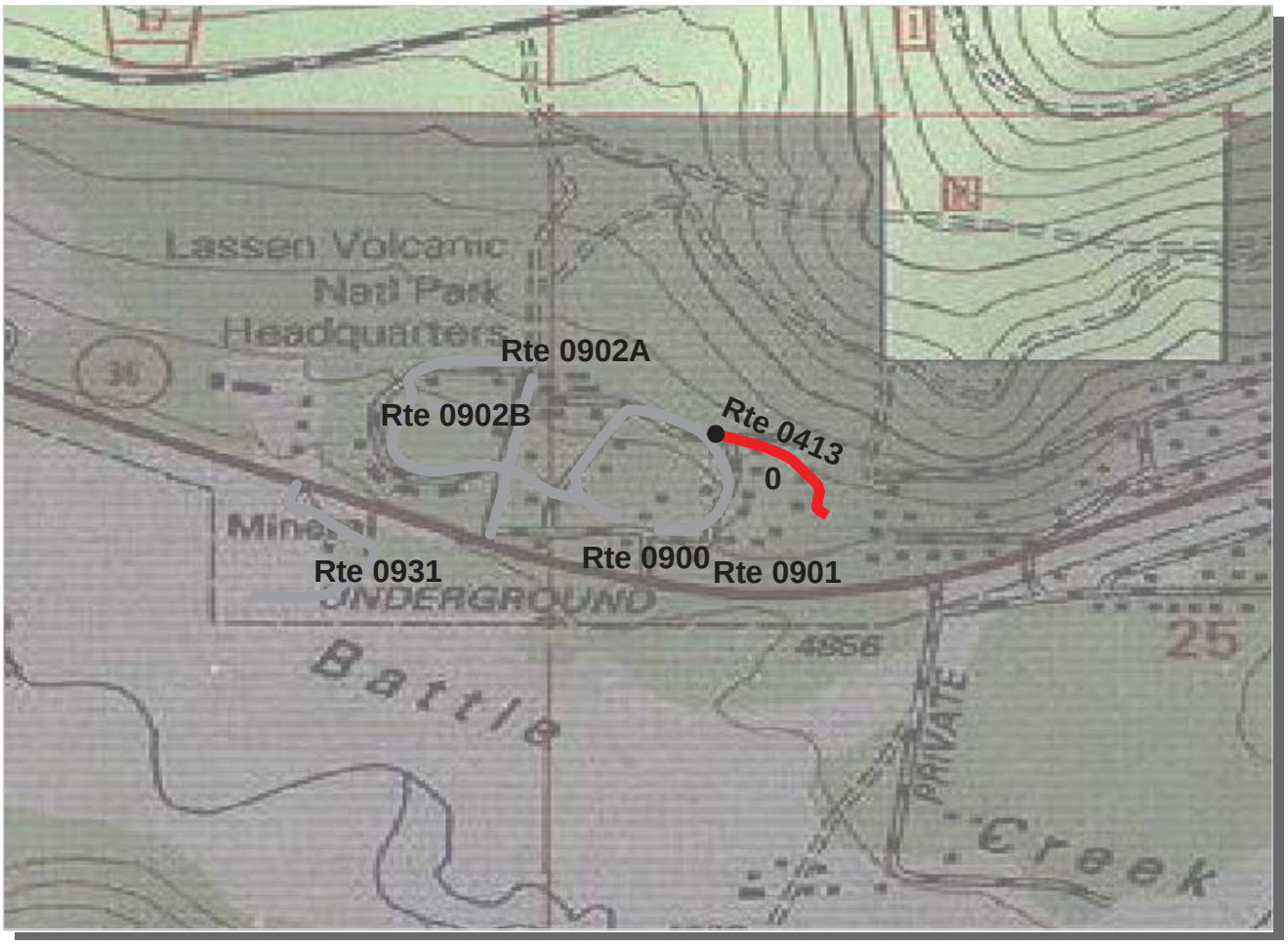
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0412 Lassen Headquarters / Residence Loop Road **TOTAL LENGTH: 0.35 Miles**

Section Number	0				
Section Length (mi)	0.35				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	23				
RCI (Roughness Condition Index)	37				
SCR (Surface Condition Rating)	26				
Alligator Cracking Index	50				
Rutting Index	73				
Patching Index	98				
Tranverse Cracking Index	92				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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



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

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

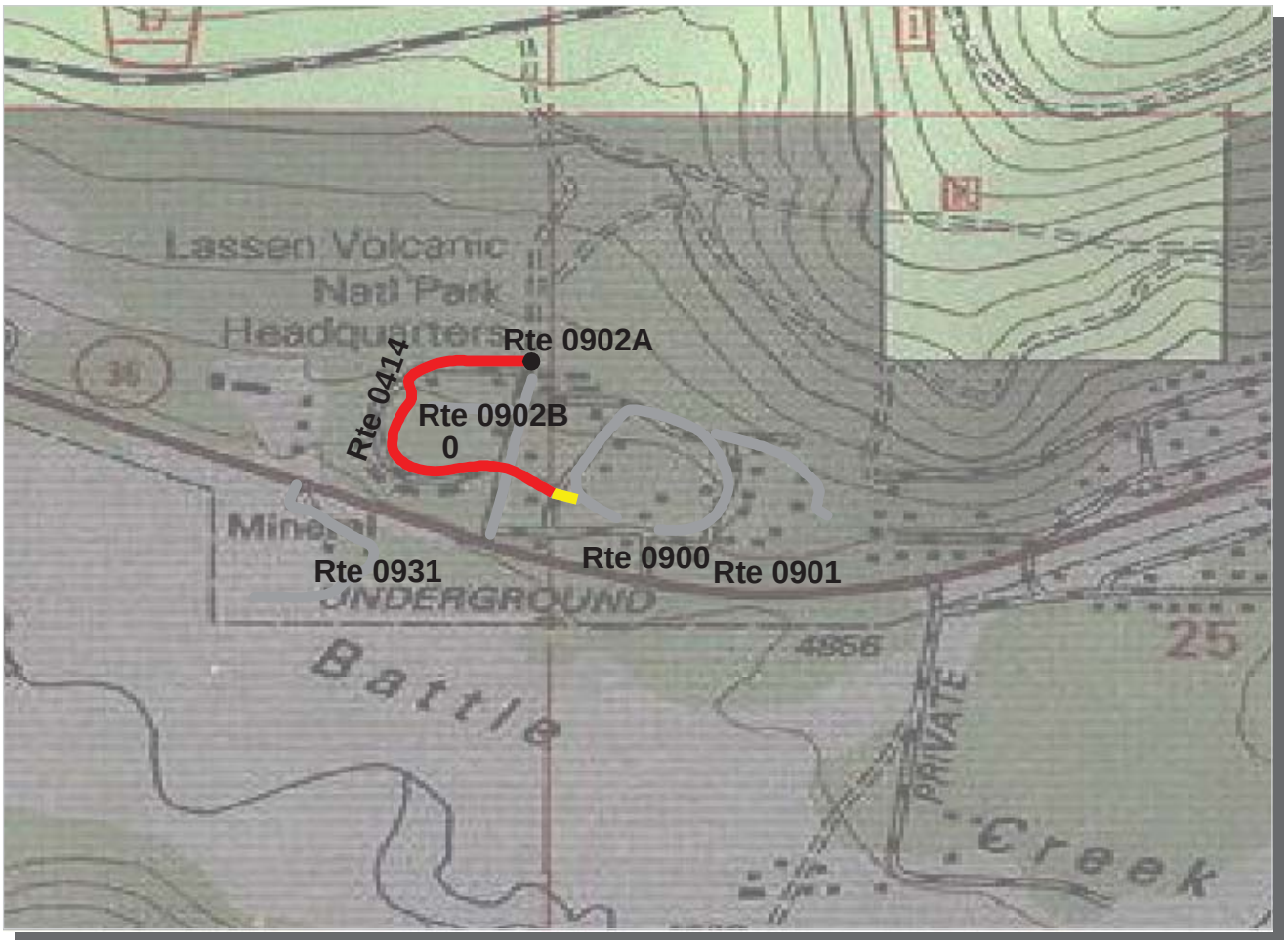
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0413 Lassen Headquarters / Residence Loop Road **TOTAL LENGTH: 0.16 Miles**

Section Number	0				
Section Length (mi)	0.16				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	4				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	4				
Alligator Cracking Index	28				
Rutting Index	51				
Patching Index	97				
Tranverse Cracking Index	96				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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



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

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

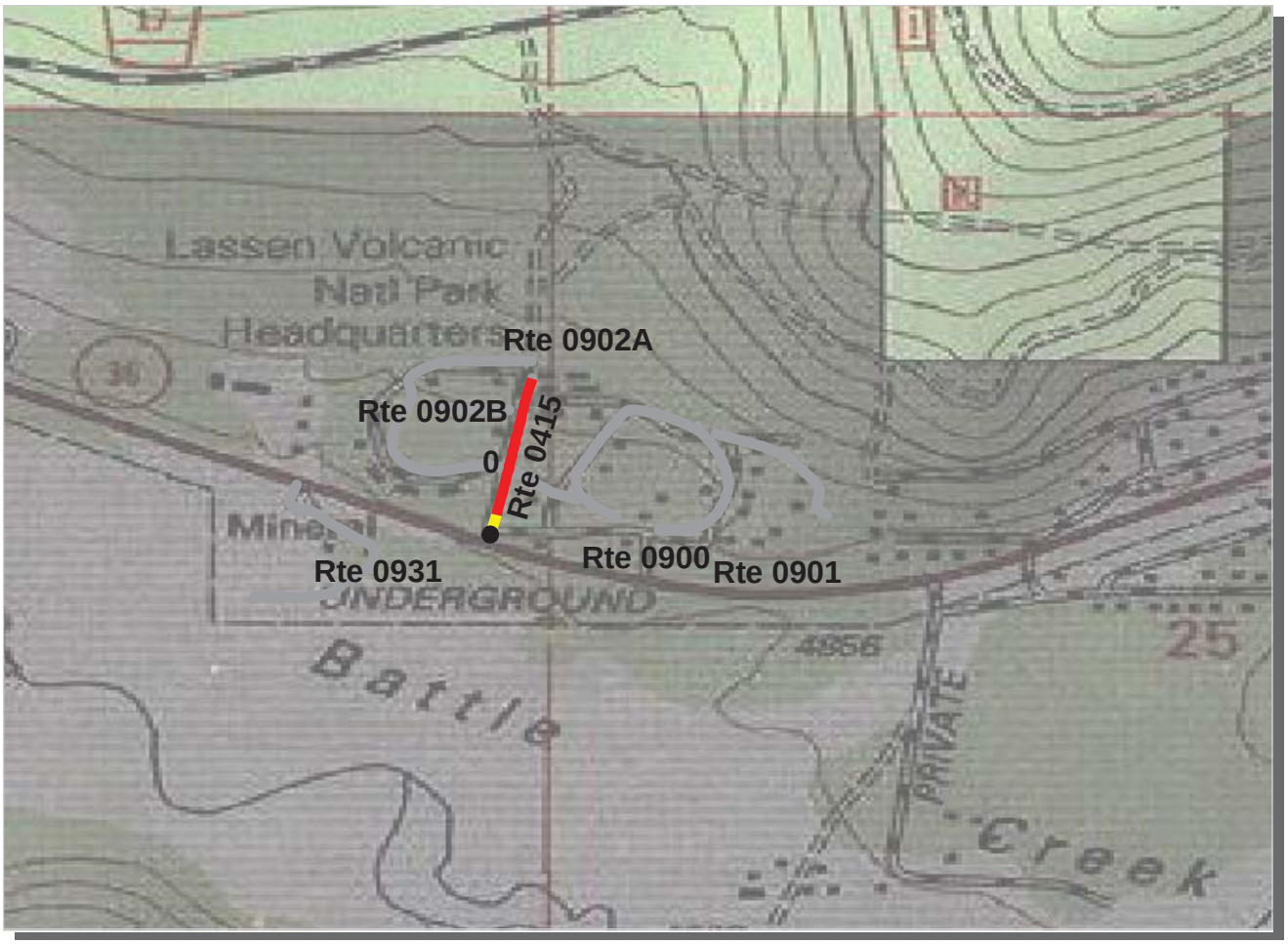
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0414 Lassen Headquarters / Residence Loop Road **TOTAL LENGTH: 0.35 Miles**

Section Number	0				
Section Length (mi)	0.35				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	41				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	41				
Alligator Cracking Index	69				
Rutting Index	65				
Patching Index	98				
Tranverse Cracking Index	92				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

* NC designates data not collected N/A designates not applicable

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



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

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

Pacific West Region
LAVO : Lassen Volcanic National Park

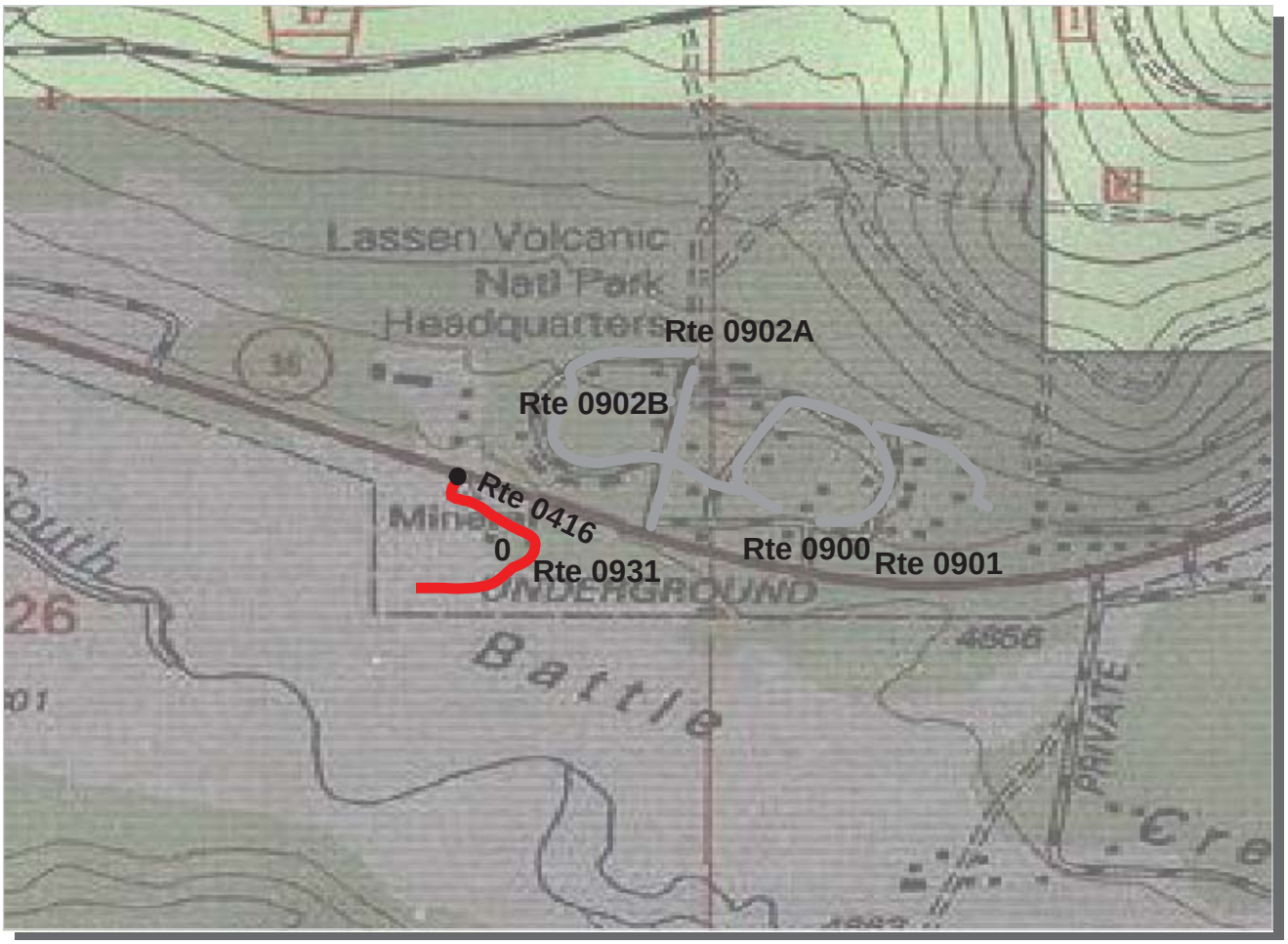
ROUTE: 0415 Maintenance Access Road (Old Viola Road) **TOTAL LENGTH: 0.18 Miles**

Section Number	0				
Section Length (mi)	0.18				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	40				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	40				
Alligator Cracking Index	69				
Rutting Index	65				
Patching Index	99				
Tranverse Cracking Index	97				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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

ROUTE: 0415 Maintenance Access Road (Old Viola Road)



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

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

Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0416 Maintenance Service Road **TOTAL LENGTH: 0.23 Miles**

Section Number	0				
Section Length (mi)	0.23				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	54				
RCI (Roughness Condition Index)	58				
SCR (Surface Condition Rating)	54				
Alligator Cracking Index	100				
Rutting Index	55				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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

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

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

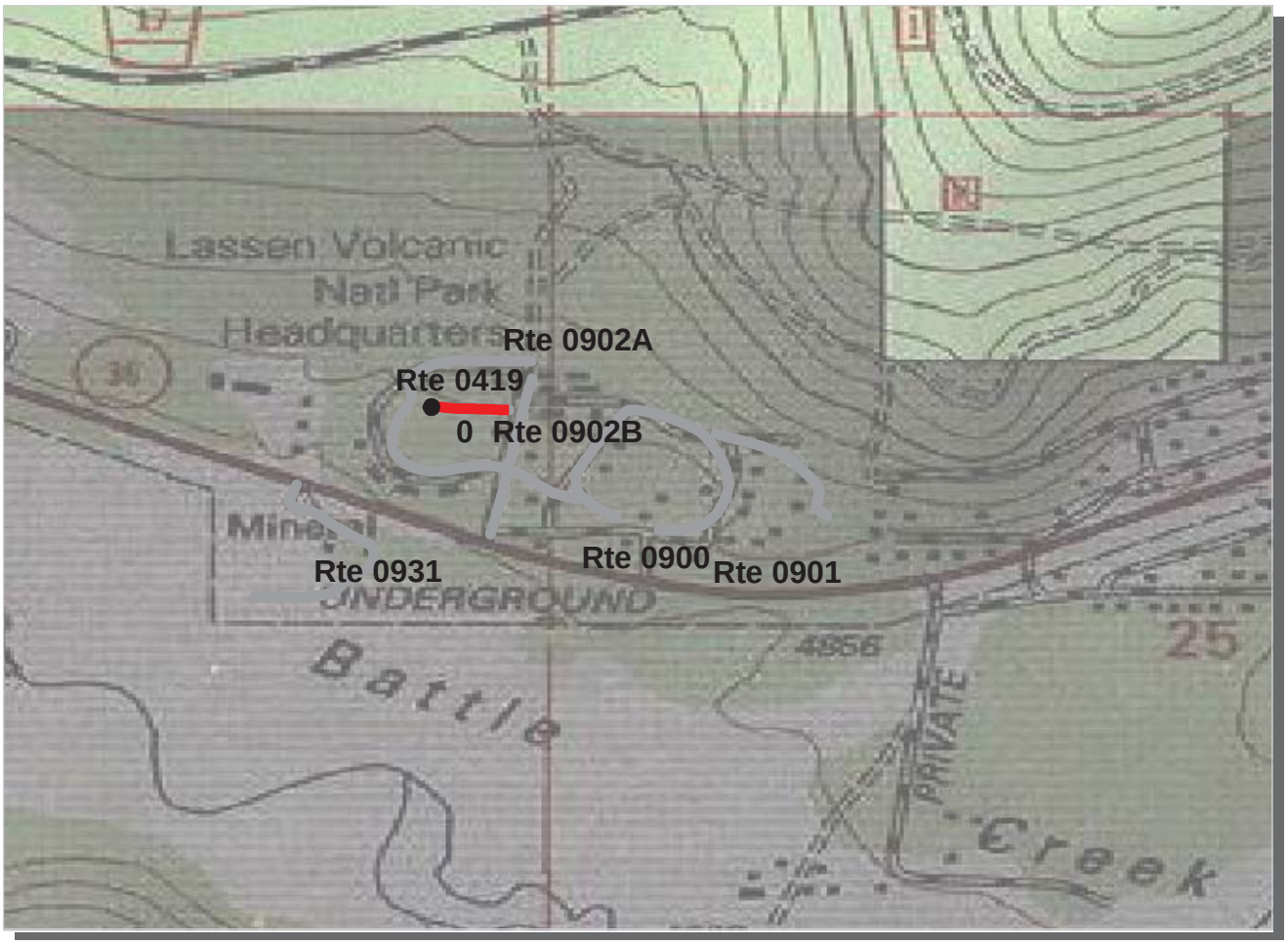
Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0418 Reflection Lake Road **TOTAL LENGTH: 0.19 Miles**

Section Number	0				
Section Length (mi)	0.19				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	3				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	3				
Alligator Cracking Index	94				
Rutting Index	5				
Patching Index	100				
Tranverse Cracking Index	91				
Longitudinal Cracking Index	90				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected N/A designates not applicable

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



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

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

Pacific West Region
LAVO : Lassen Volcanic National Park

ROUTE: 0419 Lassen Fire Road **TOTAL LENGTH: 0.08 Miles**

Section Number	0				
Section Length (mi)	0.08				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	14				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	44				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	44				
Alligator Cracking Index	75				
Rutting Index	65				
Patching Index	99				
Tranverse Cracking Index	96				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

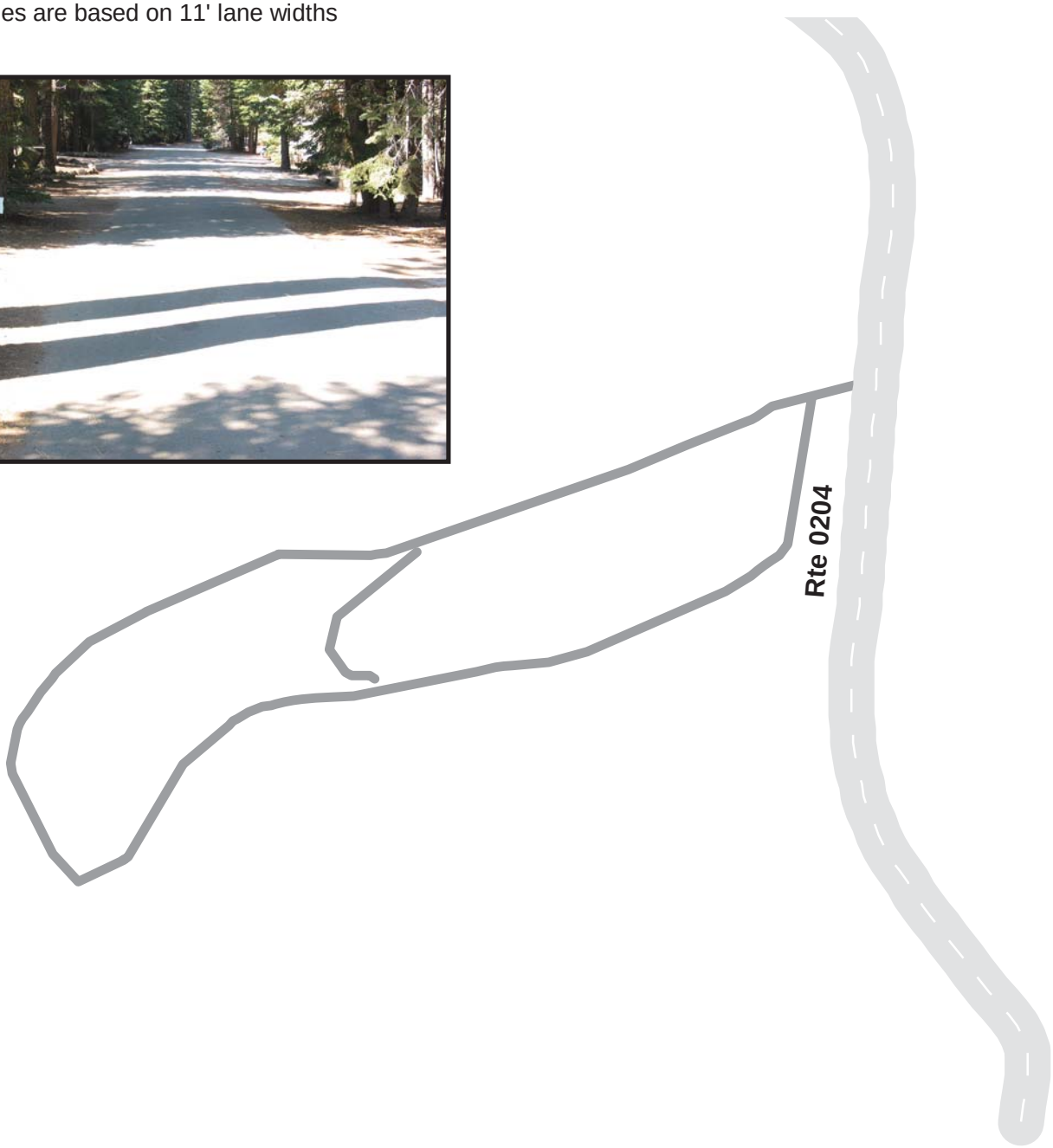
* NC designates data not collected N/A designates not applicable

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

Lassen Volcanic National Park
Route 0205A
Manzanita Campground Loop A
From Route 0204

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0205A	0.49	16.00	40973	0.71	POOR / 45	AS

* Lane miles are based on 11' lane widths



400 200 0 400
Feet

N

Lassen Volcanic National Park
Route 0205B
Manzanita Campground Loop B
From Route 0204

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0205B	0.48	11.00	27762	0.48	POOR / 45	AS

* Lane miles are based on 11' lane widths

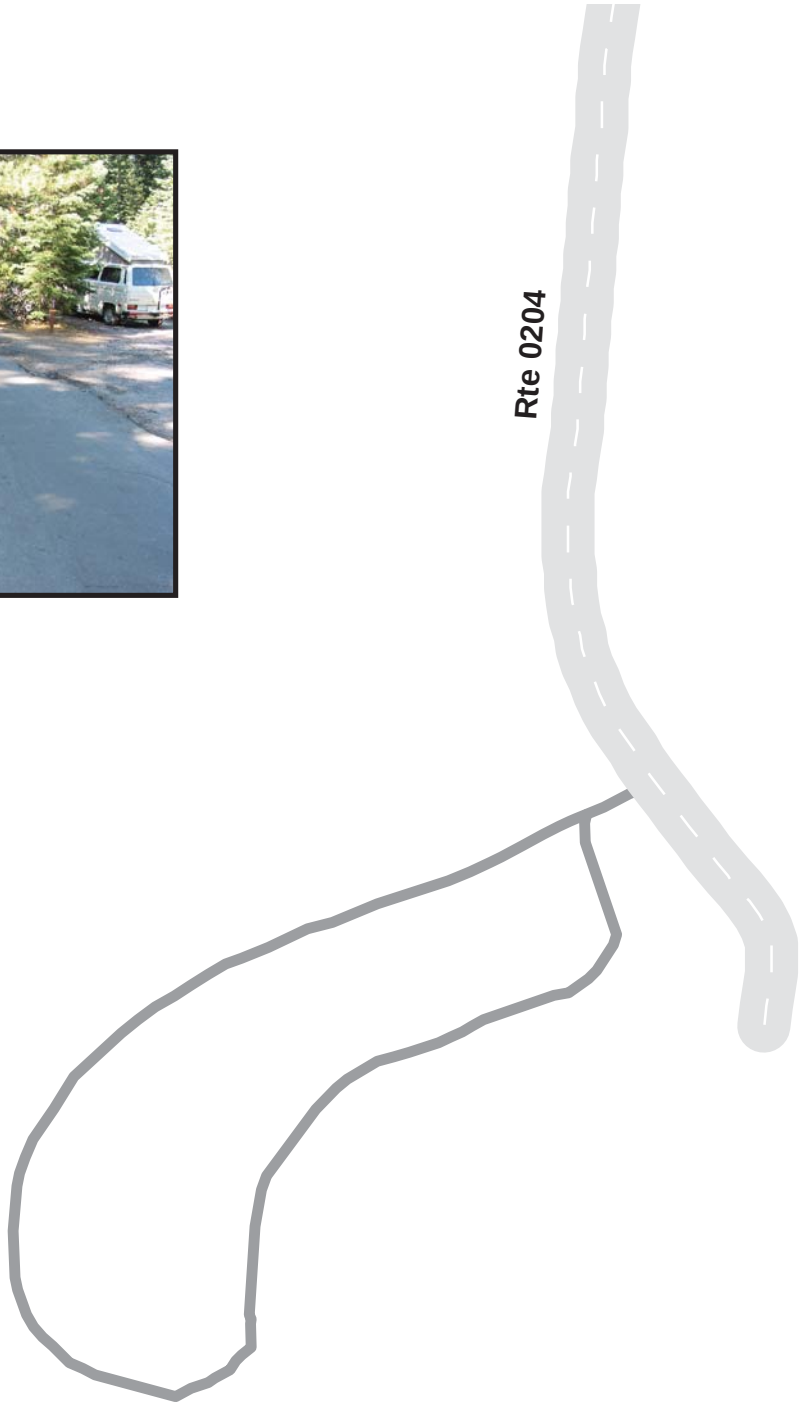
400 200 0 400
Feet

N

Lassen Volcanic National Park
Route 0205C
Manzanita Campground Loop C
From Route 0204

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0205C	0.37	12.00	23253	0.40	POOR / 45	AS

* Lane miles are based on 11' lane widths



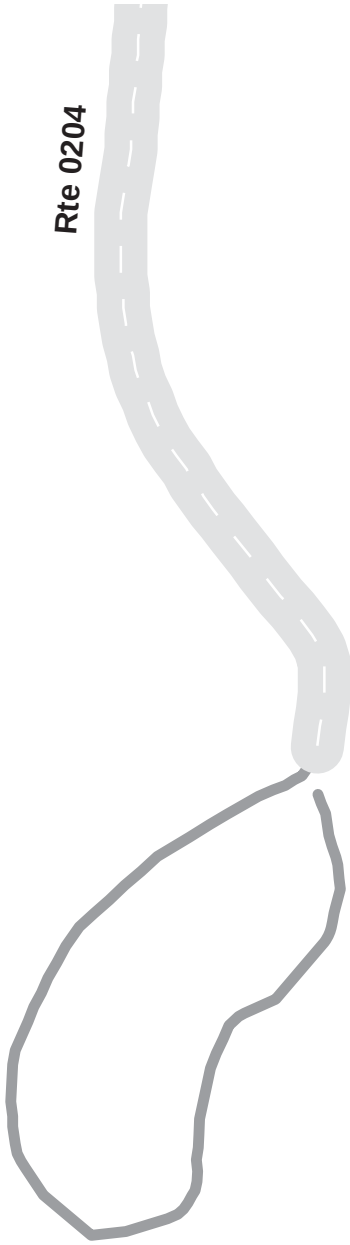
400 200 0 400
Feet

N

Lassen Volcanic National Park
Route 0205D
Manzanita Campground Loop D
From Route 0204

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0205D	0.24	12.00	15206	0.26	POOR / 45	AS

* Lane miles are based on 11' lane widths



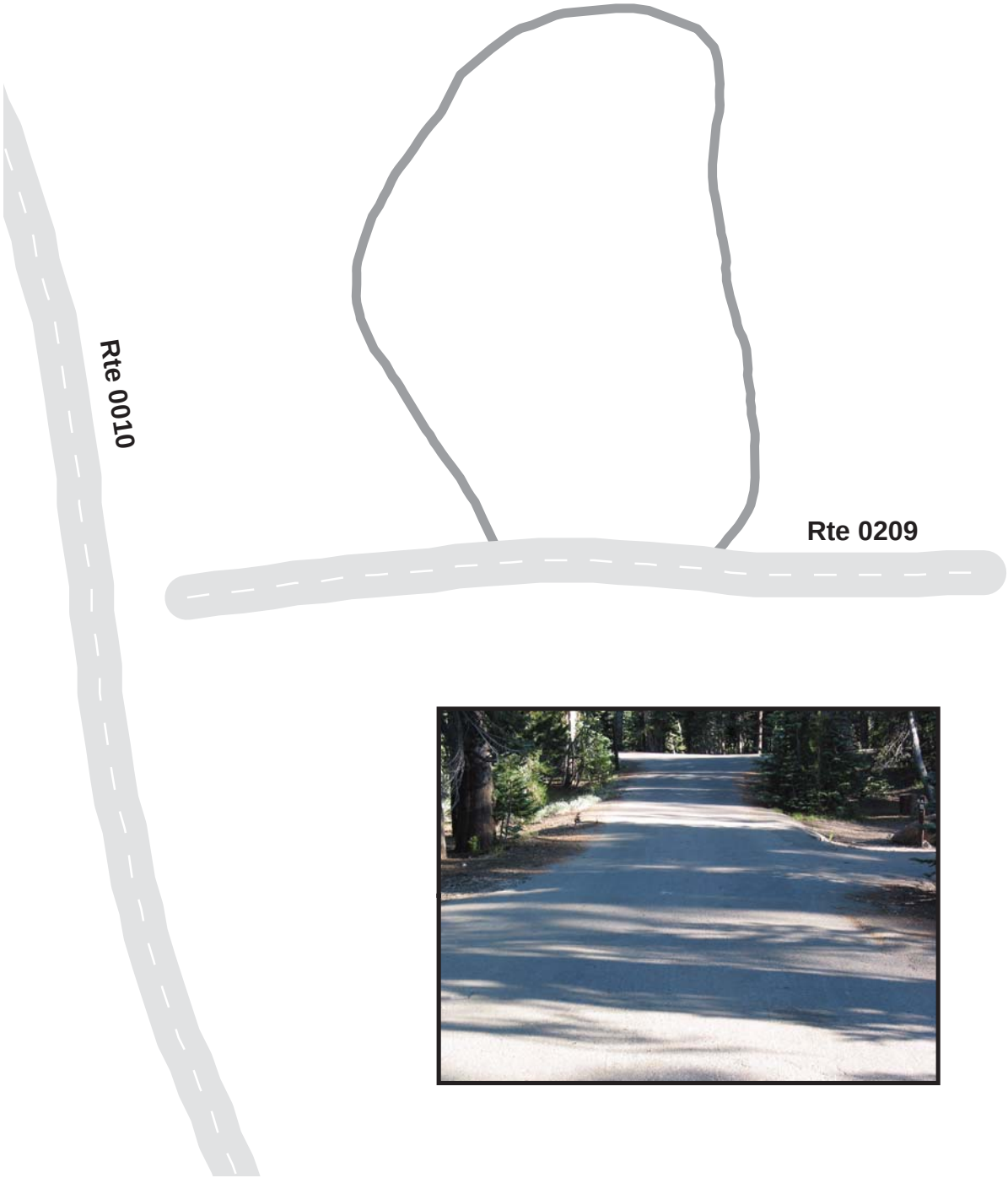
400 200 0 400
Feet

N

Lassen Volcanic National Park
Route 0214A
Summit Lake North Campground Loop A
From Route 0209

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0214A	0.16	10.00	8659	0.15	FAIR / 73	AS

* Lane miles are based on 11' lane widths



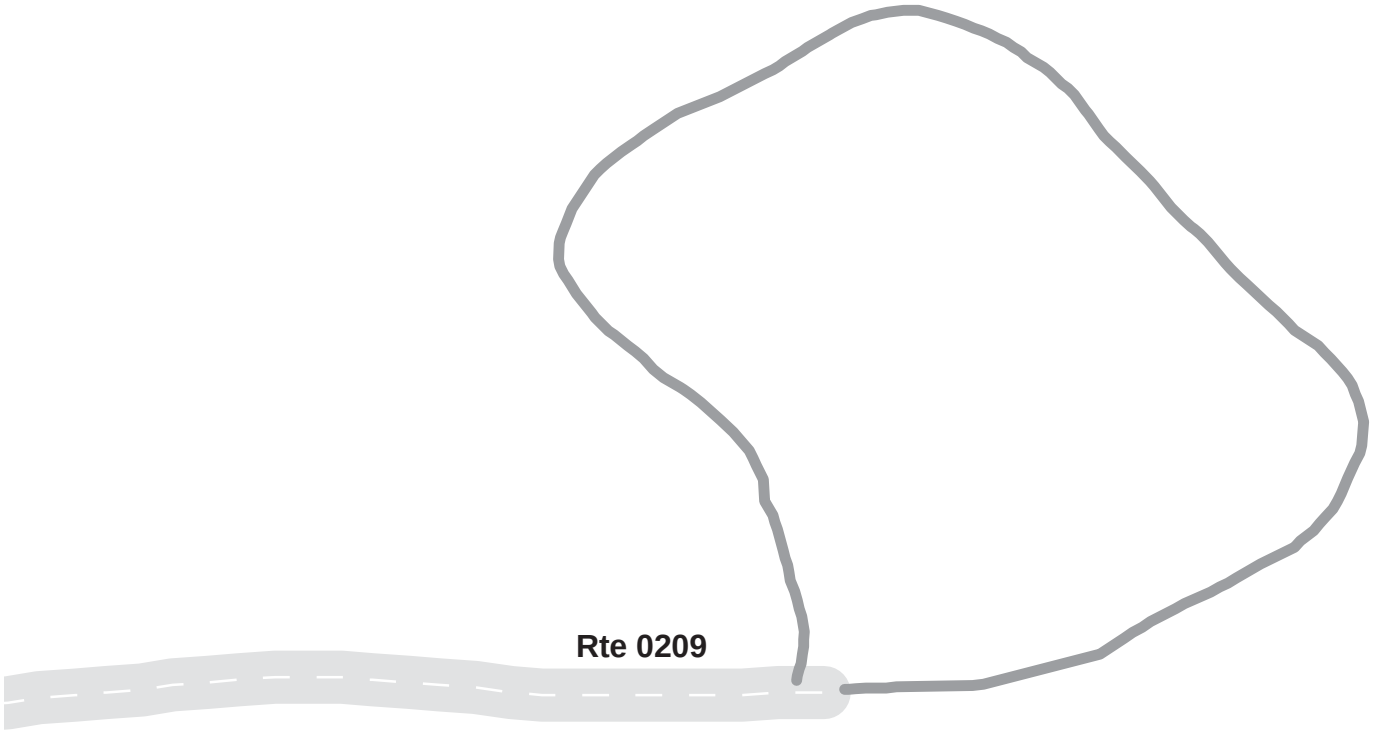
200 100 0 200
Feet

N

Lassen Volcanic National Park
Route 0214B
Summit Lake North Campground Loop B
From End of Route 0209

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0214B	0.20	15.00	15761	0.27	FAIR / 73	AS

* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0215C
Summit Lake South Campground Loop C
From Route 0211

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0215C	0.12	13.00	8305	0.14	POOR / 45	AS

* Lane miles are based on 11' lane widths

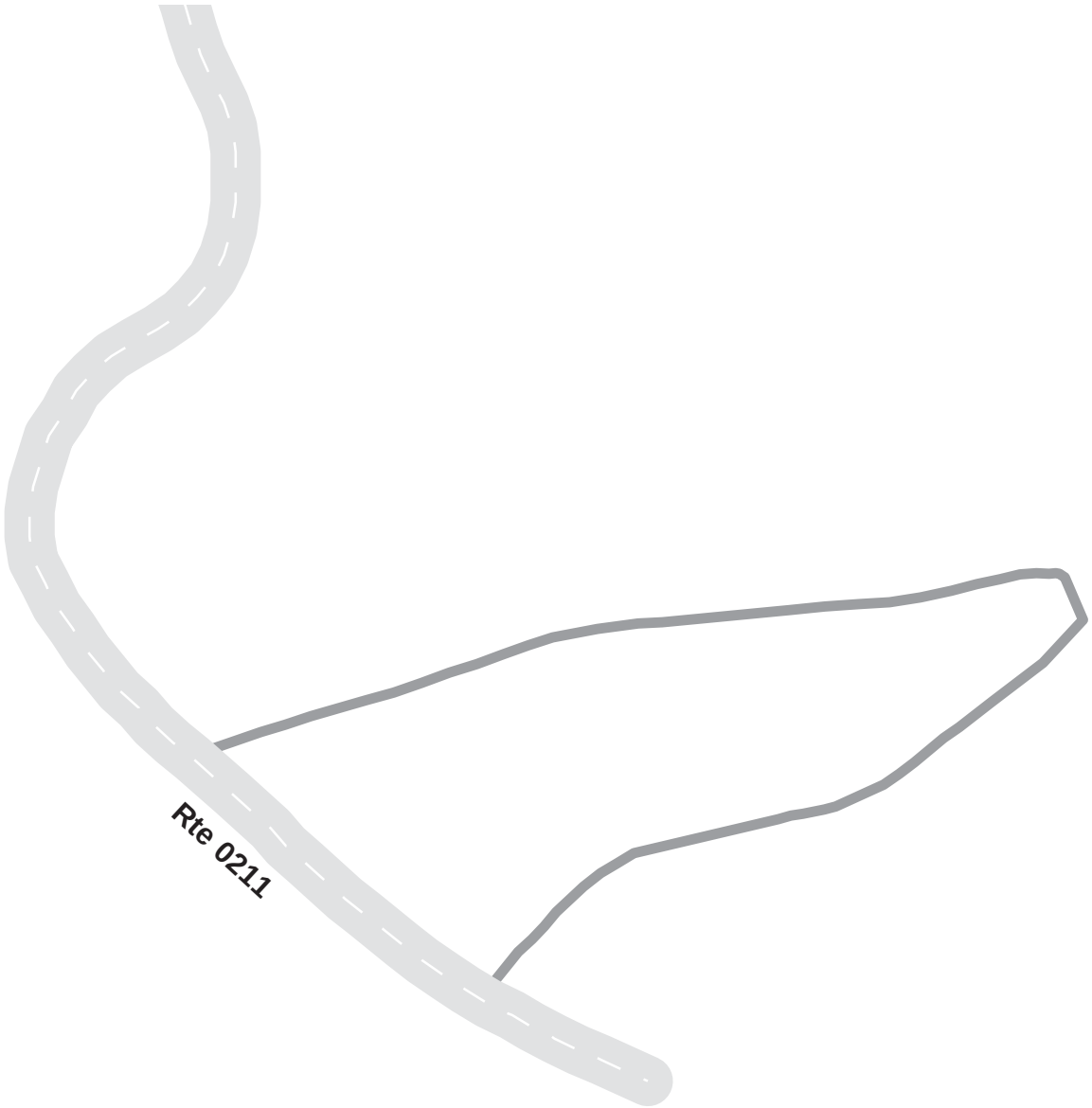
200 100 0 200 Feet

N

Lassen Volcanic National Park
Route 0215D
Summit Lake South Campground Loop D
From Route 0211

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0215D	0.18	12.00	11595	0.20	POOR / 45	AS

* Lane miles are based on 11' lane widths



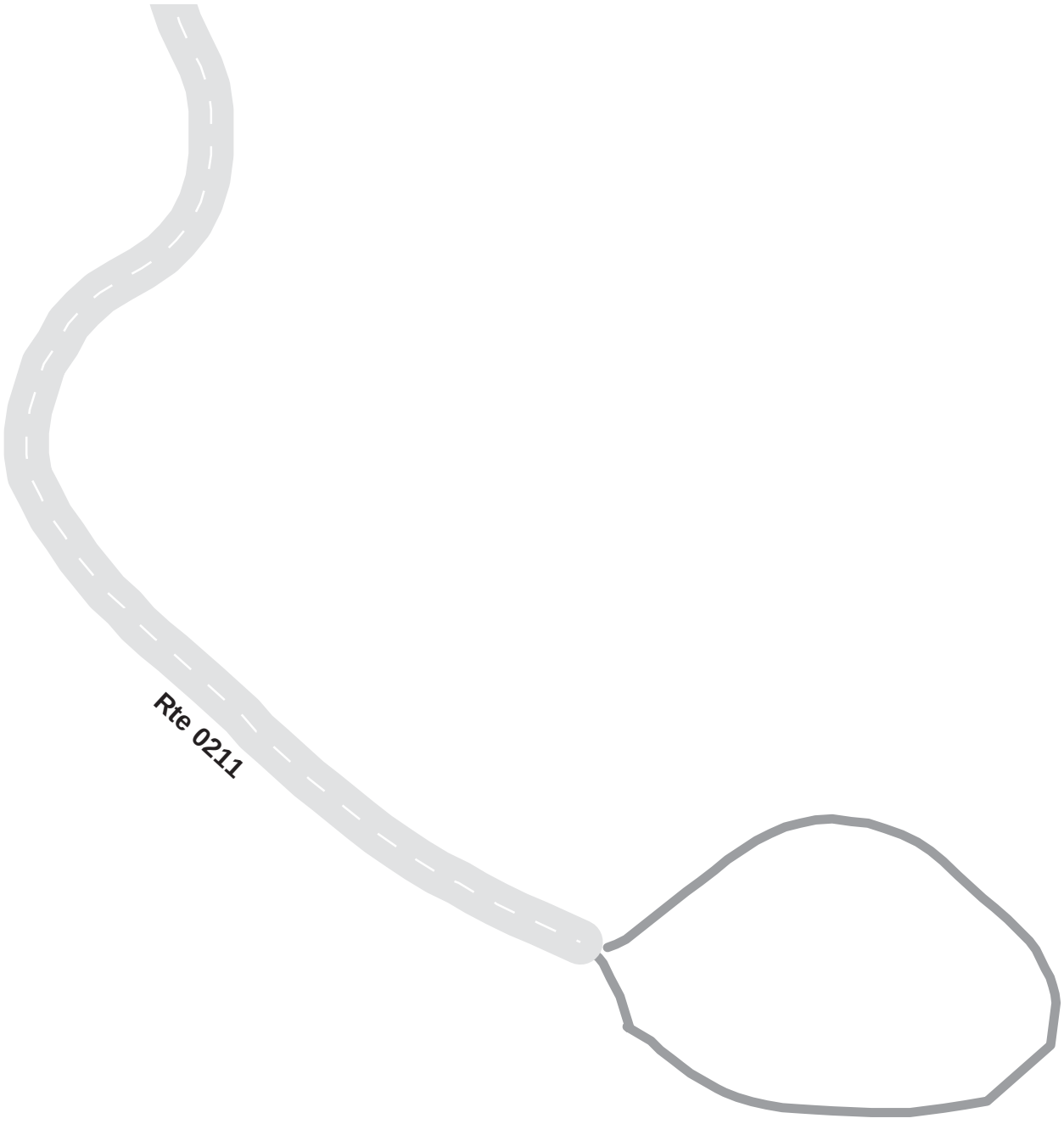
200 100 0 200
Feet

N

Lassen Volcanic National Park
Route 0215E
Summit Lake South Campground Loop E
From End of Route 0211

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0215E	0.15	15.00	11880	0.20	POOR / 45	AS

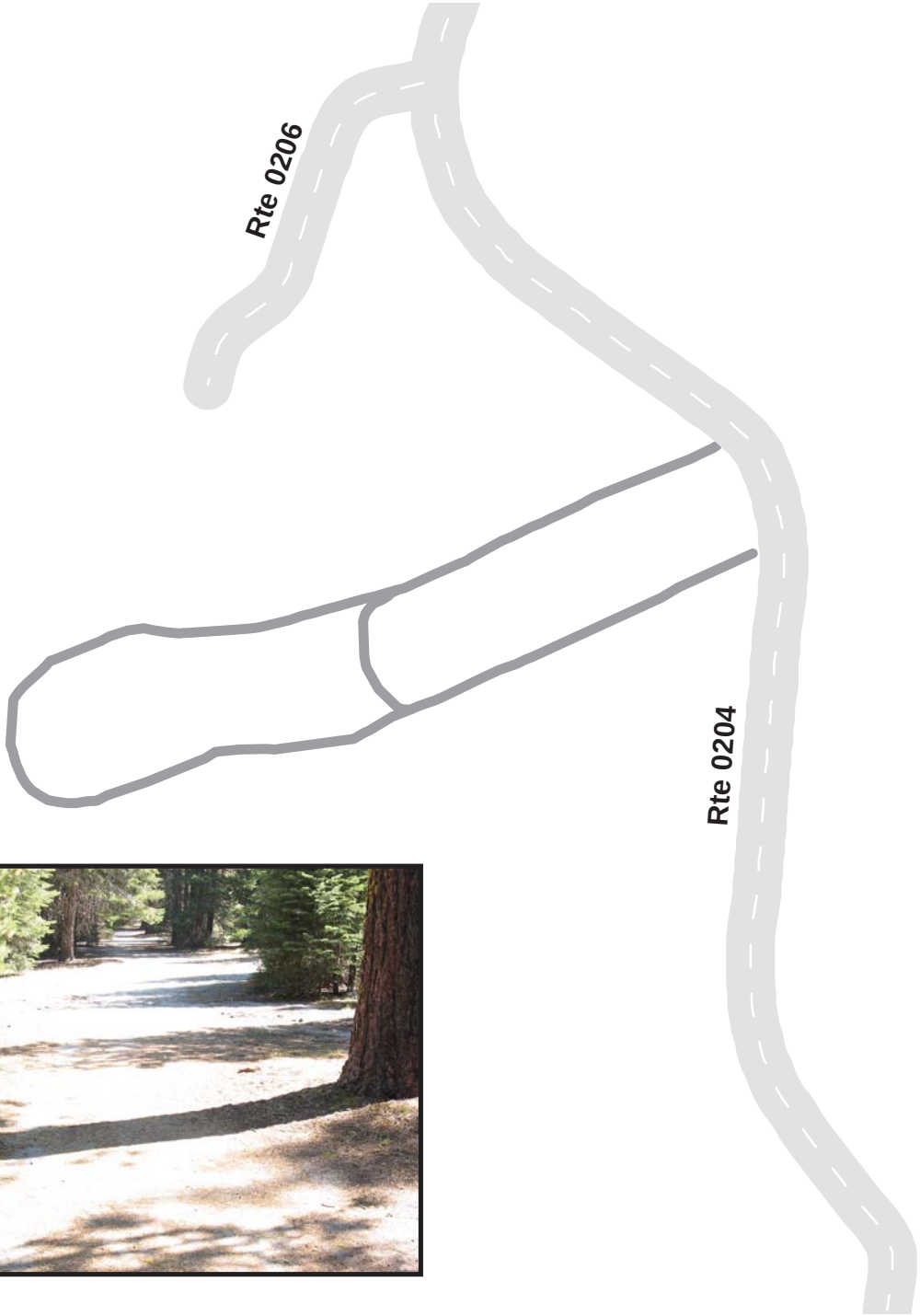
* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0216
Manzanita Store Loop
From Route 0920C

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0216	0.46	15.00	36274	0.62	POOR / 45	AS

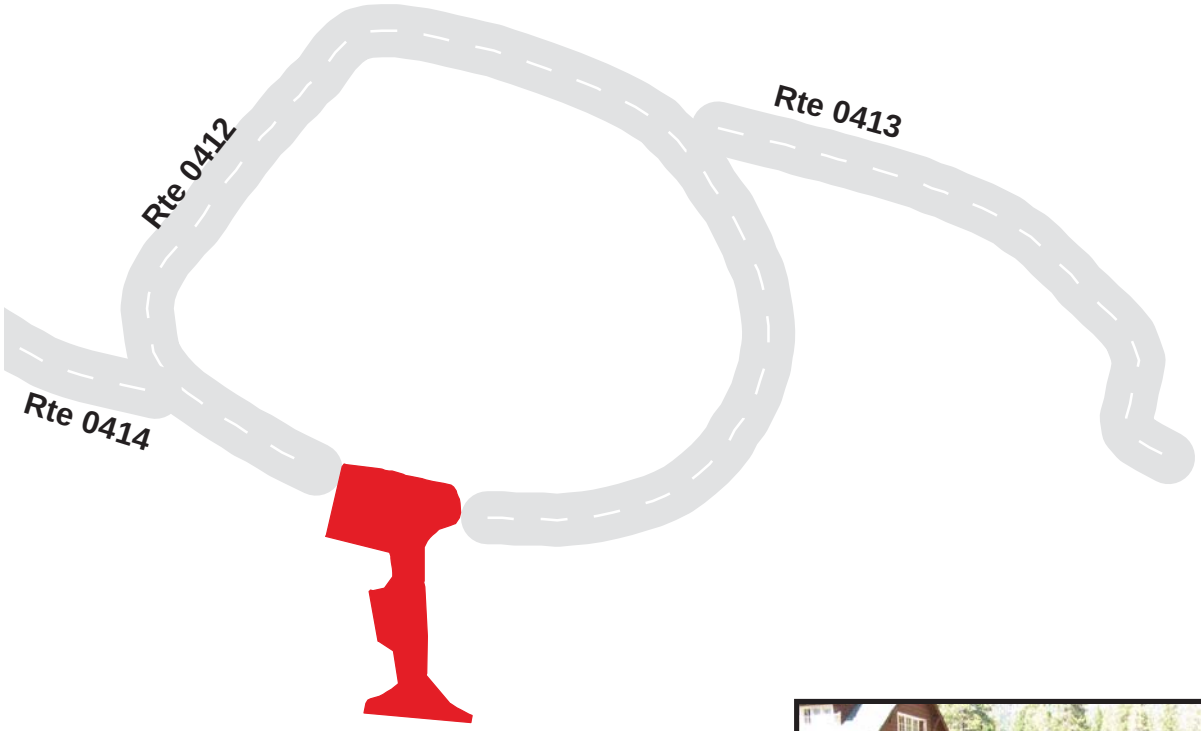
* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0900
Lassen Headquarters Parking
From State Highway 36

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	8/28/2002	21907	0.38	AS	POOR / 45

* Lane miles are based on 11' lane widths



300 150 0 300
Feet

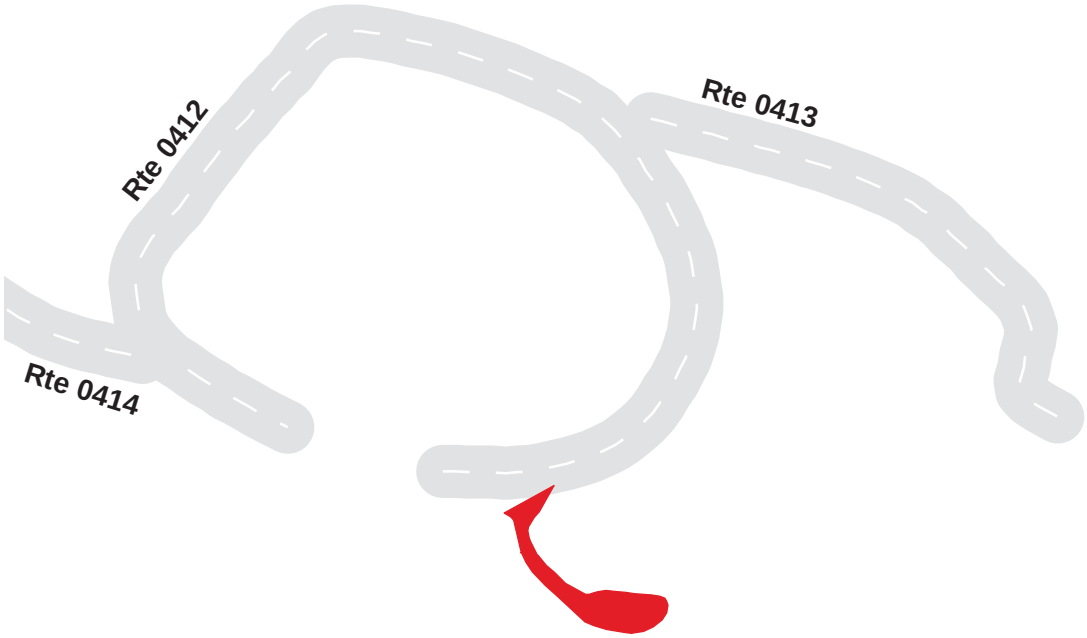
N

Lassen Volcanic National Park
Route 0901

Naturalist Division Annex Parking
Adjacent To Route 0412

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	8/28/2002	8438	0.15	AS	POOR / 45

* Lane miles are based on 11' lane widths



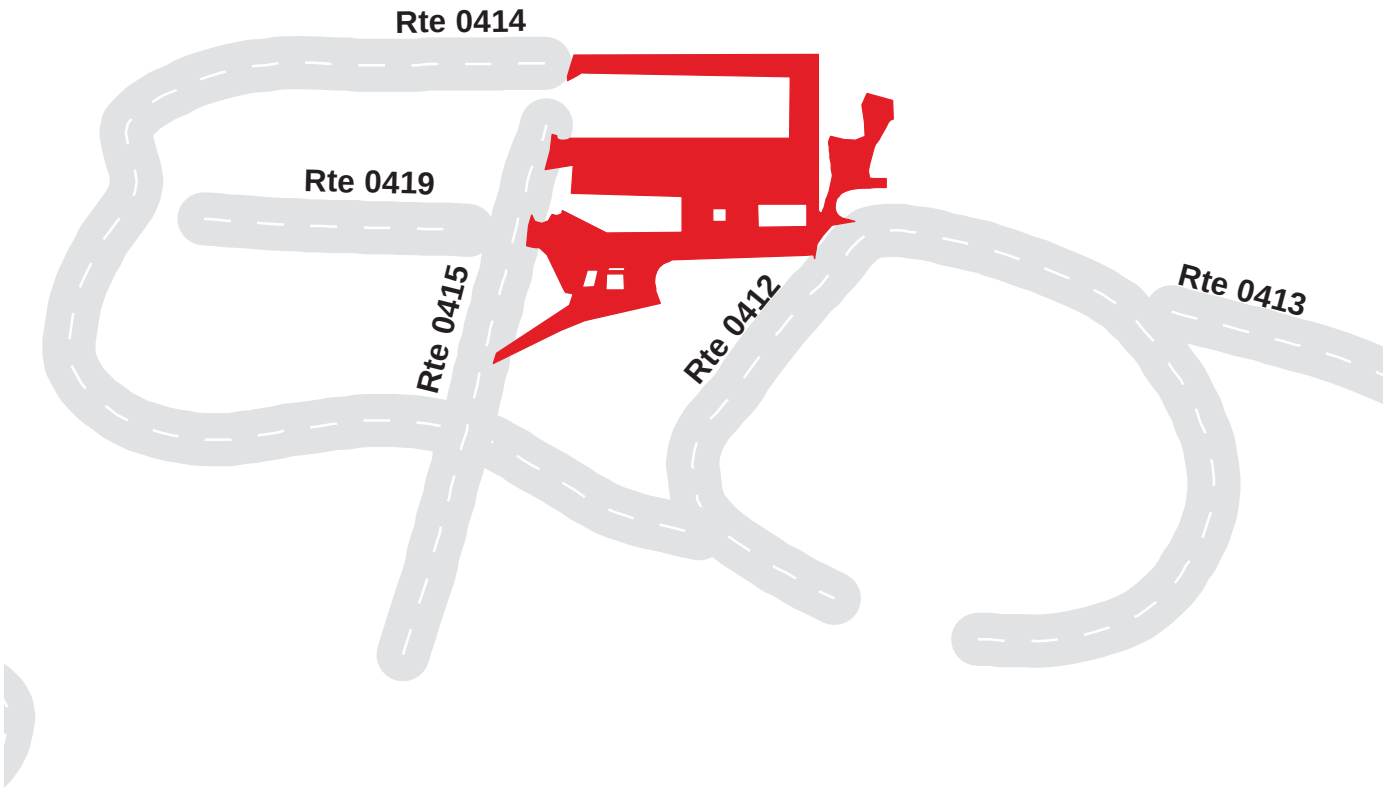
300 150 0 300
Feet

N

Lassen Volcanic National Park
Route 0902A
Park Headquarters Ranger / Maintenance Parking A
From Route 0412

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902A	Public	8/28/2002	81229	1.40	AS	POOR / 45

* Lane miles are based on 11' lane widths



300 150 0 300
Feet

N

Lassen Volcanic National Park
Route 0902B

Park Headquarters Ranger / Maintenance Parking B
Adjacent to Route 0419

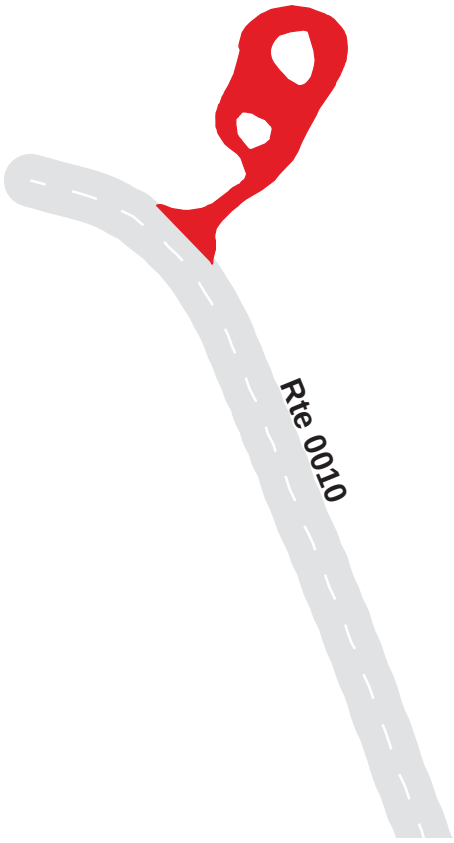
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902B	Public	8/28/2002	4068	0.07	AS	POOR / 45

* Lane miles are based on 11' lane widths

Lassen Volcanic National Park
Route 0903
Northwest Entrance Trailhead Parking
Adjacent to Route 0010 at MP 29.6

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	Public	8/28/2002	26933	0.46	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths



300 150 0 300
Feet

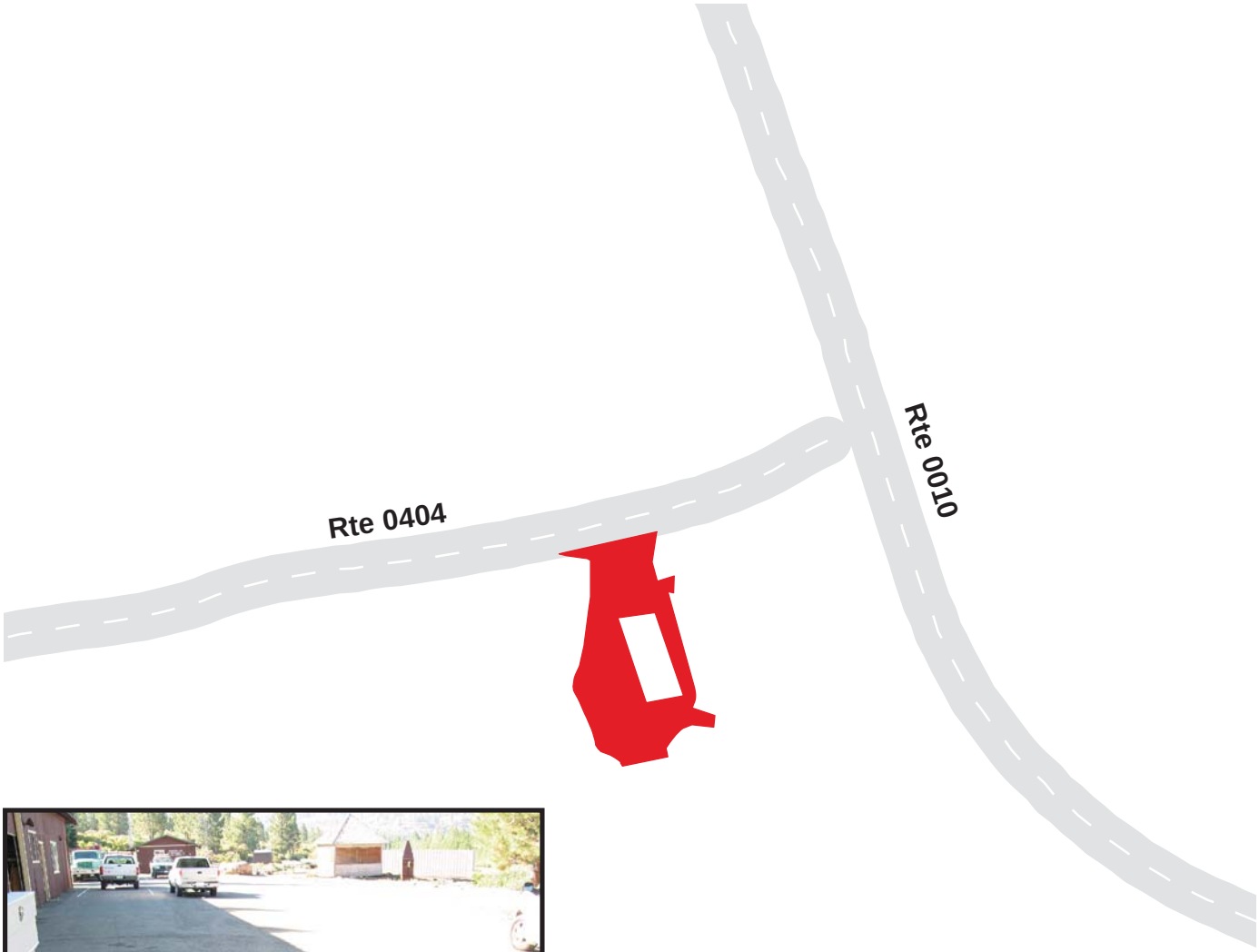
N

Lassen Volcanic National Park
Route 0904

Northwest Park Maintenance Parking
Adjacent to Route 0404

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	Public	8/28/2002	18061	0.31	AS	FAIR / 73

* Lane miles are based on 11' lane widths



300 150 0 300
Feet

N

Lassen Volcanic National Park
Route 0906
Southwest Information Station Parking
Adjacent to Route 0010 at MP 1.1

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	8/28/2002	130735	2.25	AS	FAIR / 73

* Lane miles are based on 11' lane widths

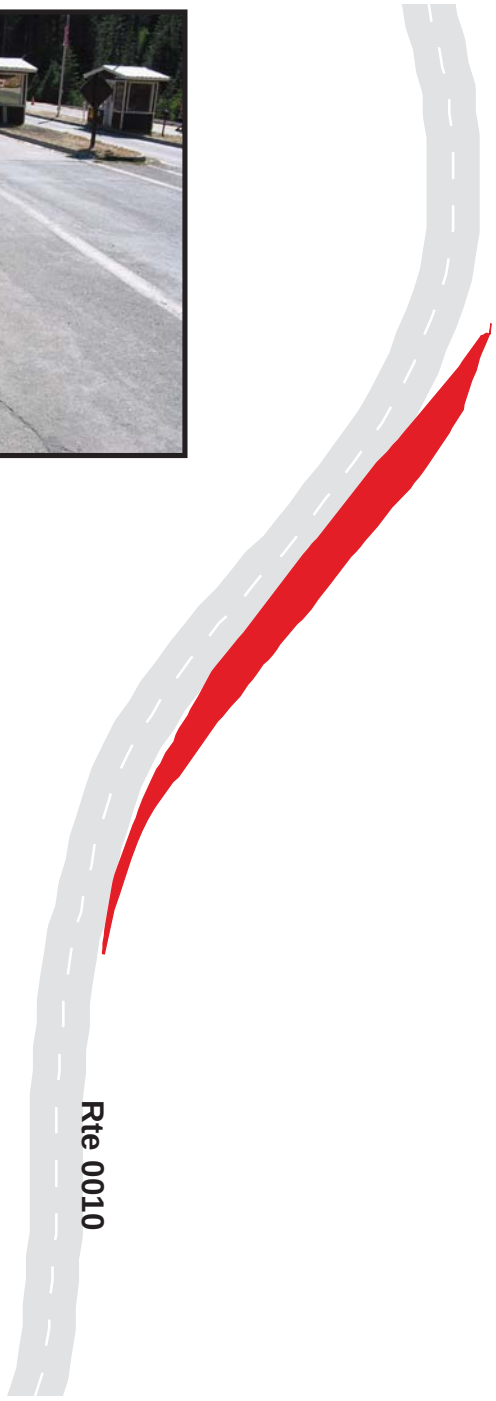
300150 0 300
Feet

N

Lassen Volcanic National Park
Route 0907
Southwest Entrance Kiosk Parking
Adjacent to Route 0010 at MP 1

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	8/28/2002	9263	0.16	AS	FAIR / 73

* Lane miles are based on 11' lane widths



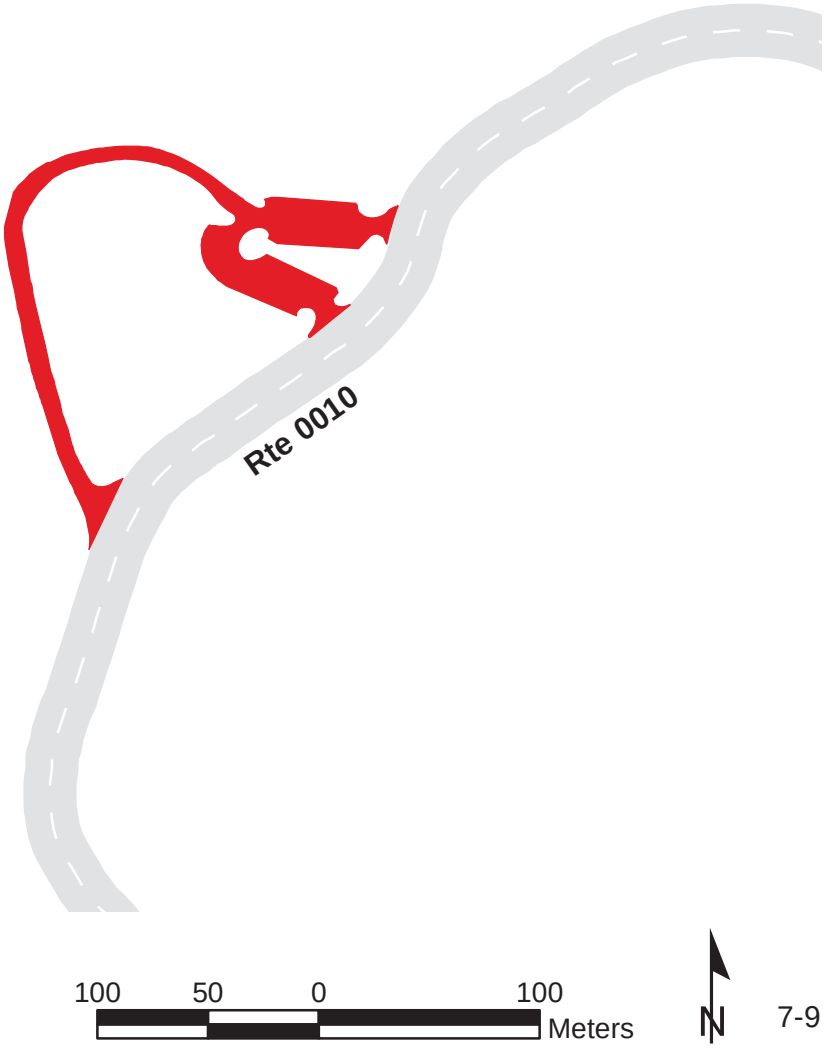
150 75 0 150
Feet

N

Lassen Volcanic National Park
Route 0908
Sulphur Works Parking
From Route 0010 at MP 1.9

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	8/28/2002	37125	0.64	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0909
Lake Helen Picnic Area Loop
Adjacent to Route 0010 at MP 7.0

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	8/28/2002	13775	0.24	AS	POOR / 45

* Lane miles are based on 11' lane widths

Lassen Volcanic National Park
Route 0910
Kings Creek Picnic Area Turnout Parking
Adjacent to Route 0212

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	Public	8/28/2002	3324	0.06	AS	POOR / 45

* Lane miles are based on 11' lane widths

100 50 0 100
Feet

N

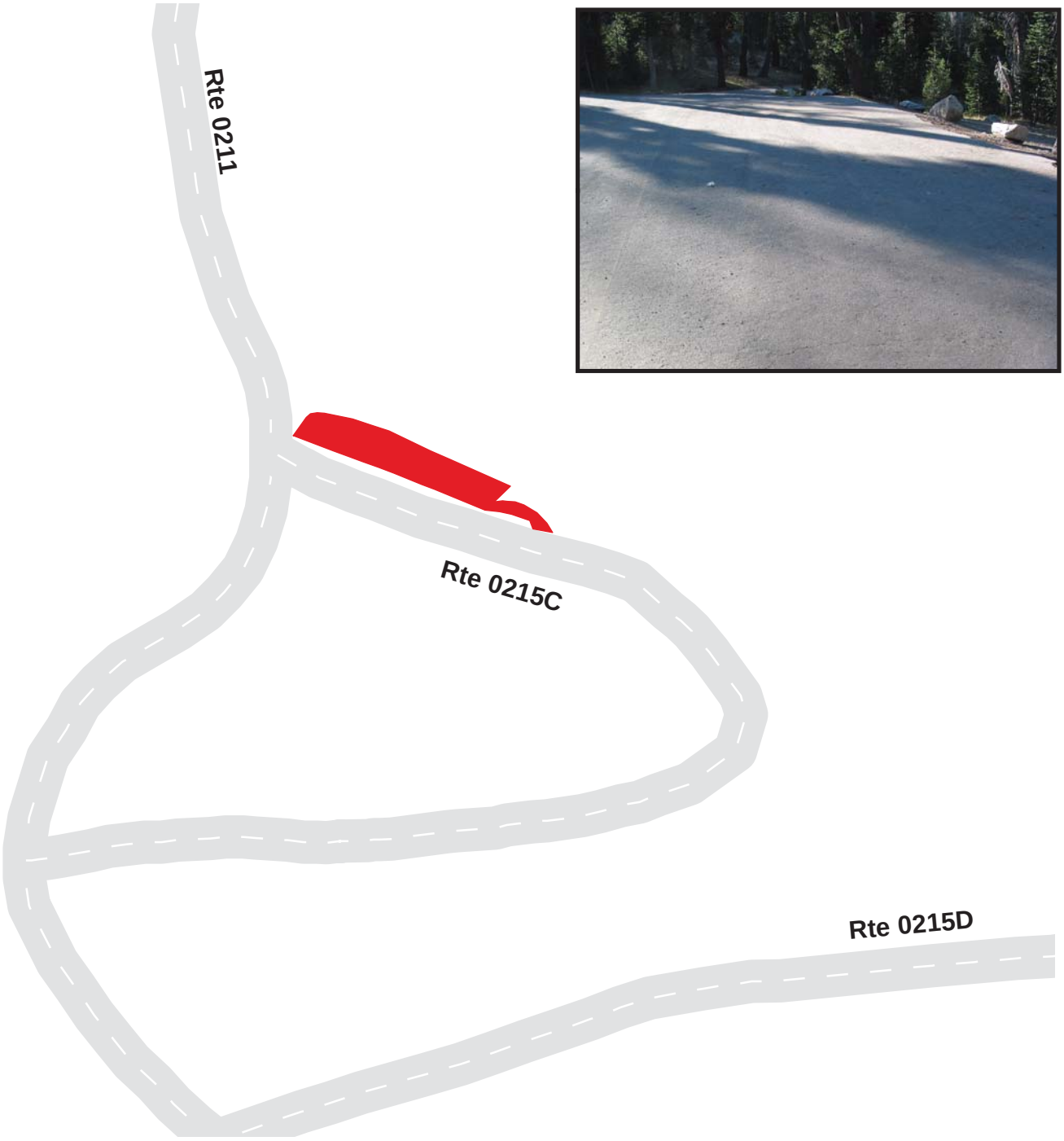
7-11

Lassen Volcanic National Park
Route 0911

Summit Lake South Campground Parking
Adjacent to Route 0215C

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	8/28/2002	2179	0.04	AS	POOR / 45

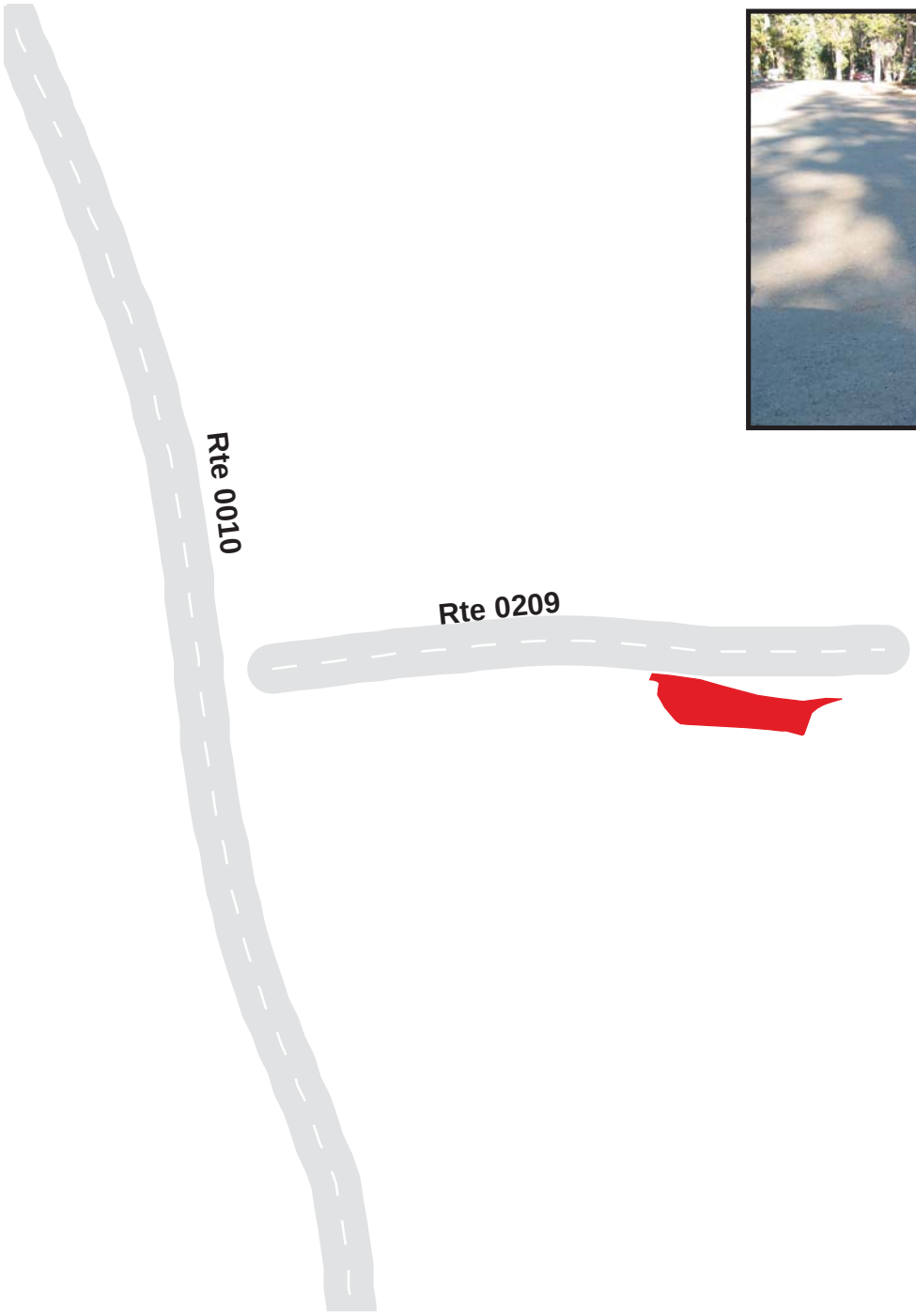
* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0912A
Summit Lake North Campground Parking A
Adjacent to Route 0209

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912A	Public	8/28/2002	3398	0.06	AS	POOR / 45

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

N

Lassen Volcanic National Park
Route 0912B

Summit Lake North Campground Parking B
At End of Route 0209 on right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912B	Public	8/28/2002	1791	0.03	AS	POOR / 45

* Lane miles are based on 11' lane widths

100 50 0 100
Feet

N

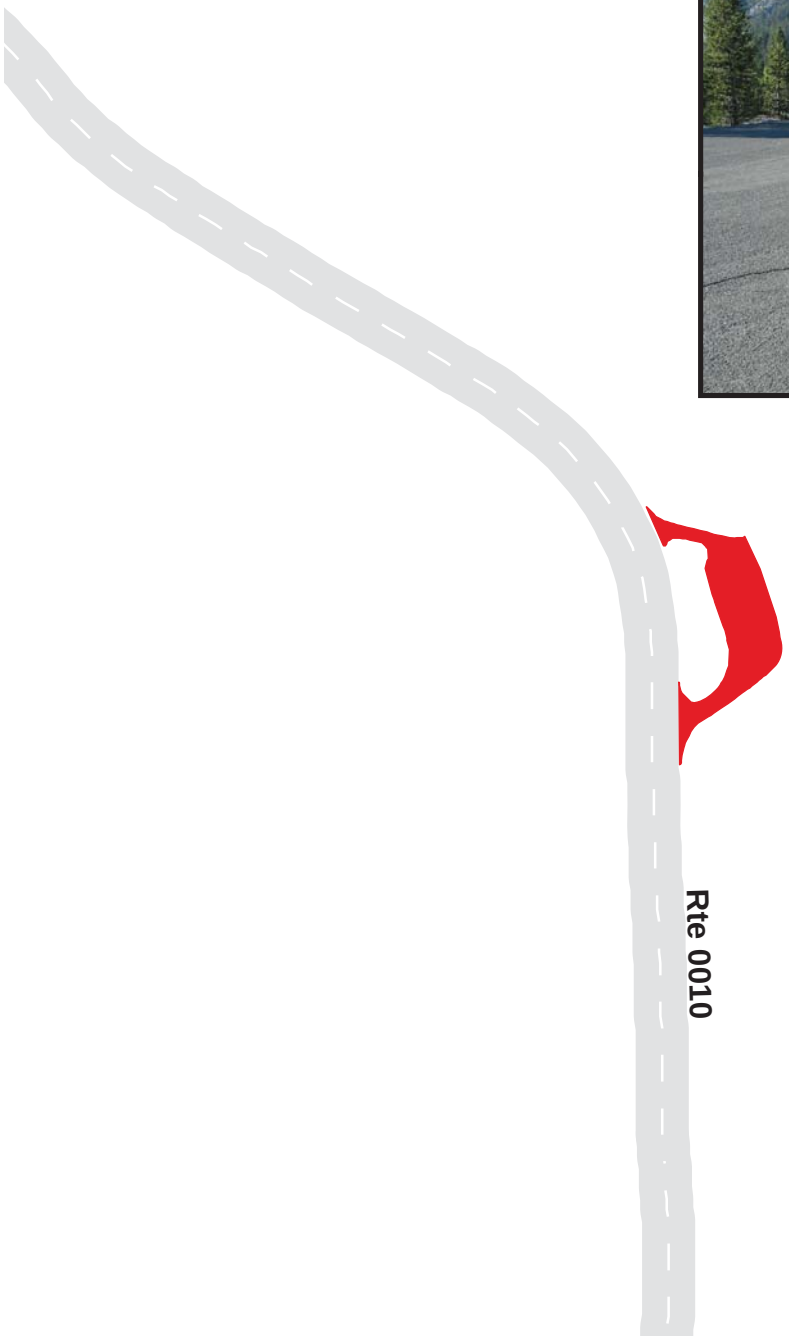
7-14

Lassen Volcanic National Park
Route 0914

Devastated Area Interpretive Trail Parking
Adjacent to Route 0010 at MP 19.7

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	Public	8/28/2002	22027	0.38	AS	POOR / 45

* Lane miles are based on 11' lane widths



300 150 0 300
Feet

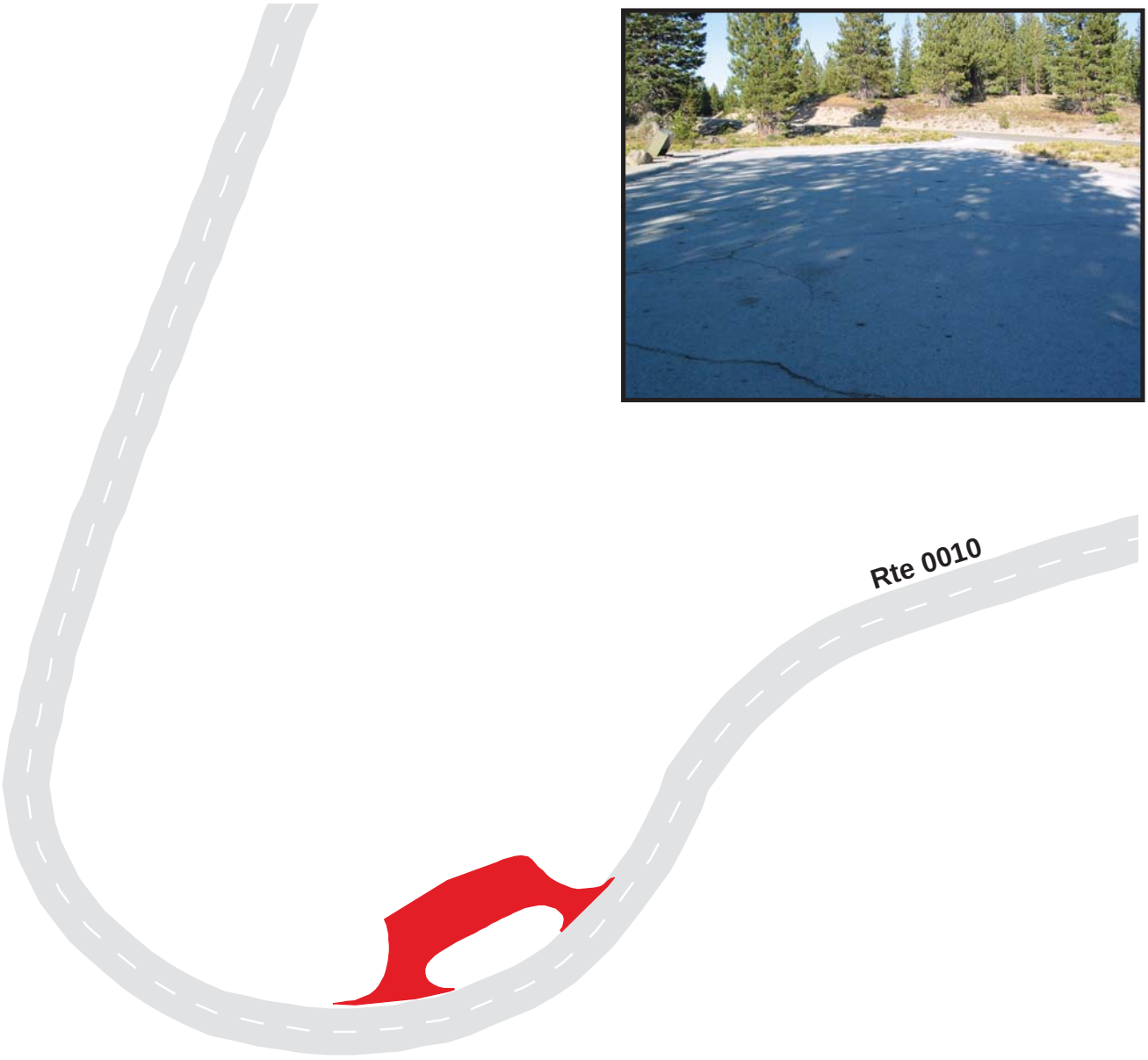
N

7-15

Lassen Volcanic National Park
Route 0915
Hat Lake Parking
Adjacent to Route 0010 at MP 19.2

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	8/28/2002	6373	0.11	AS	FAIR / 73

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

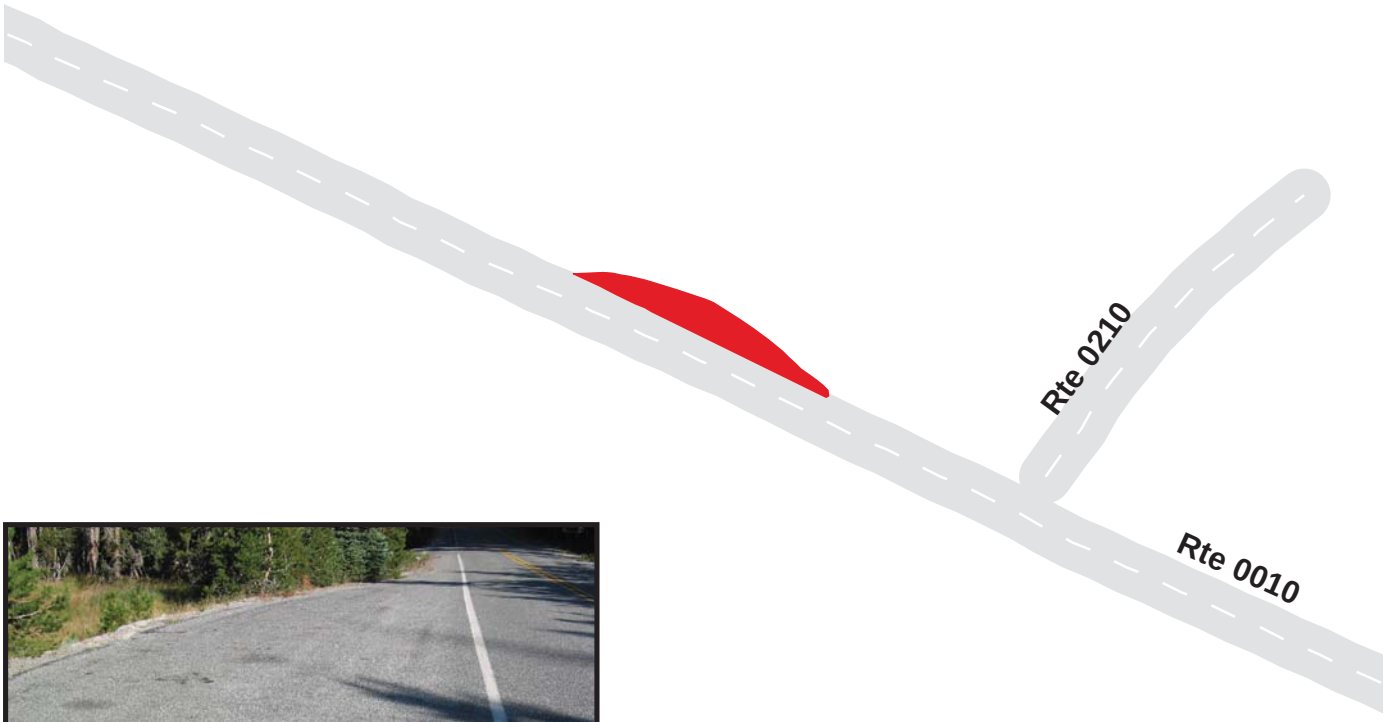
N

Lassen Volcanic National Park
Route 0916A

Dersch Meadows Pullout Parking A
Adjacent to Route 0010 at MP 16.84 on right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916A	Public	8/28/2002	1859	0.03	AS	FAIR / 73

* Lane miles are based on 11' lane widths



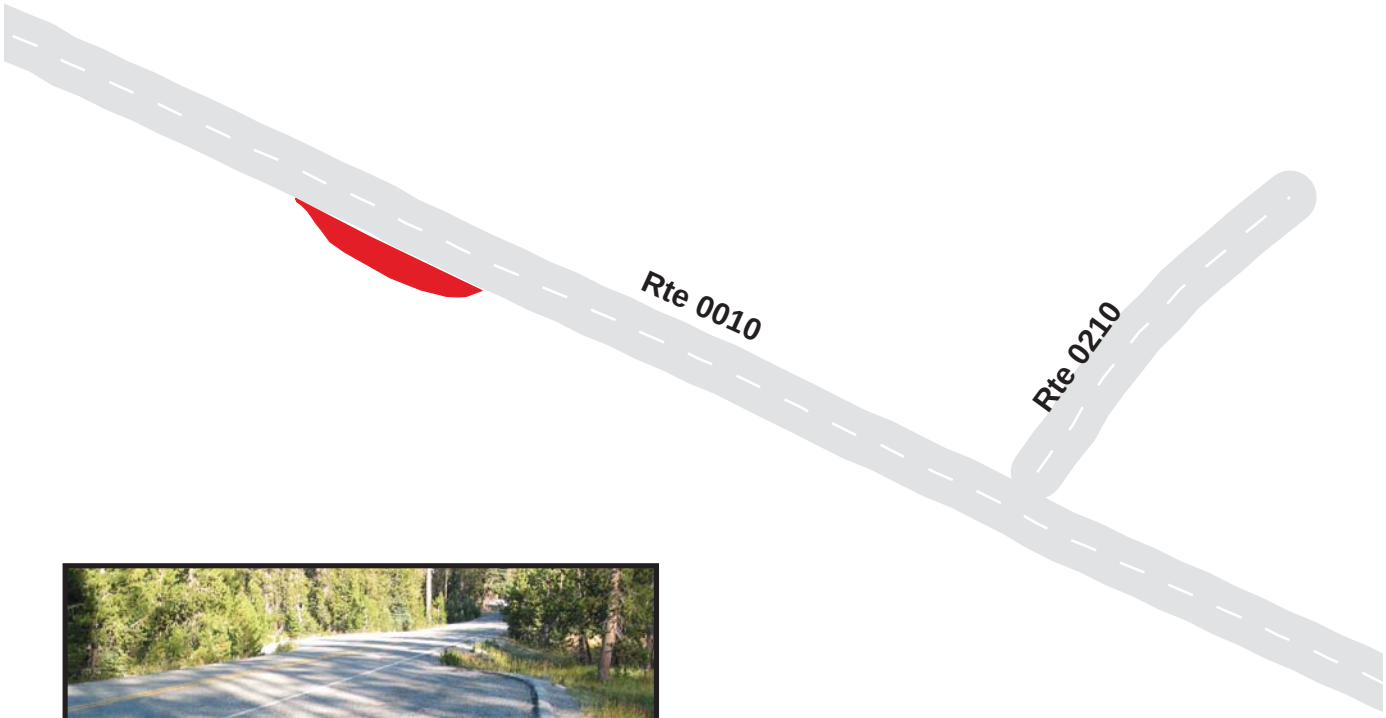
Lassen Volcanic National Park
Route 0916B

Dersch Meadows Pullout Parking B

Adjacent to Route 0010 at MP 16.87 on left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916B	Public	8/28/2002	1253	0.02	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0917
Hot Rock Parking
Adjacent to Route 0010 at MP 21.65

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	Public	8/28/2002	5564	0.10	AS	FAIR / 73

* Lane miles are based on 11' lane widths

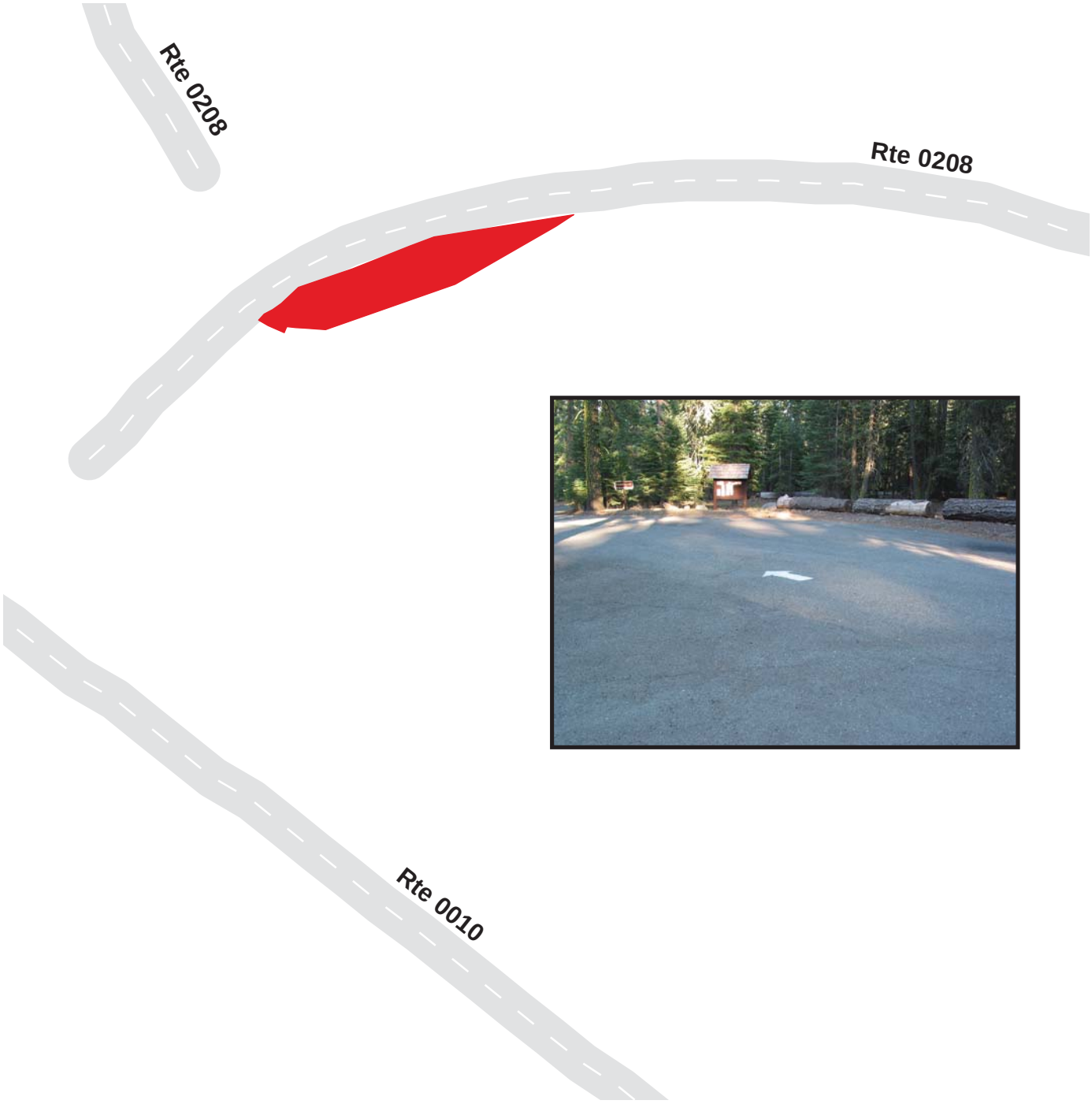
150 75 0 150
Feet

N

Lassen Volcanic National Park
Route 0918
Lost Creek Group Camp Parking
Adjacent to Route 0208

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918	Public	8/28/2002	1696	0.03	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0919
Crags Parking
Adjacent to Route 0207

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	8/28/2002	1751	0.03	AS	FAIR / 73

* Lane miles are based on 11' lane widths

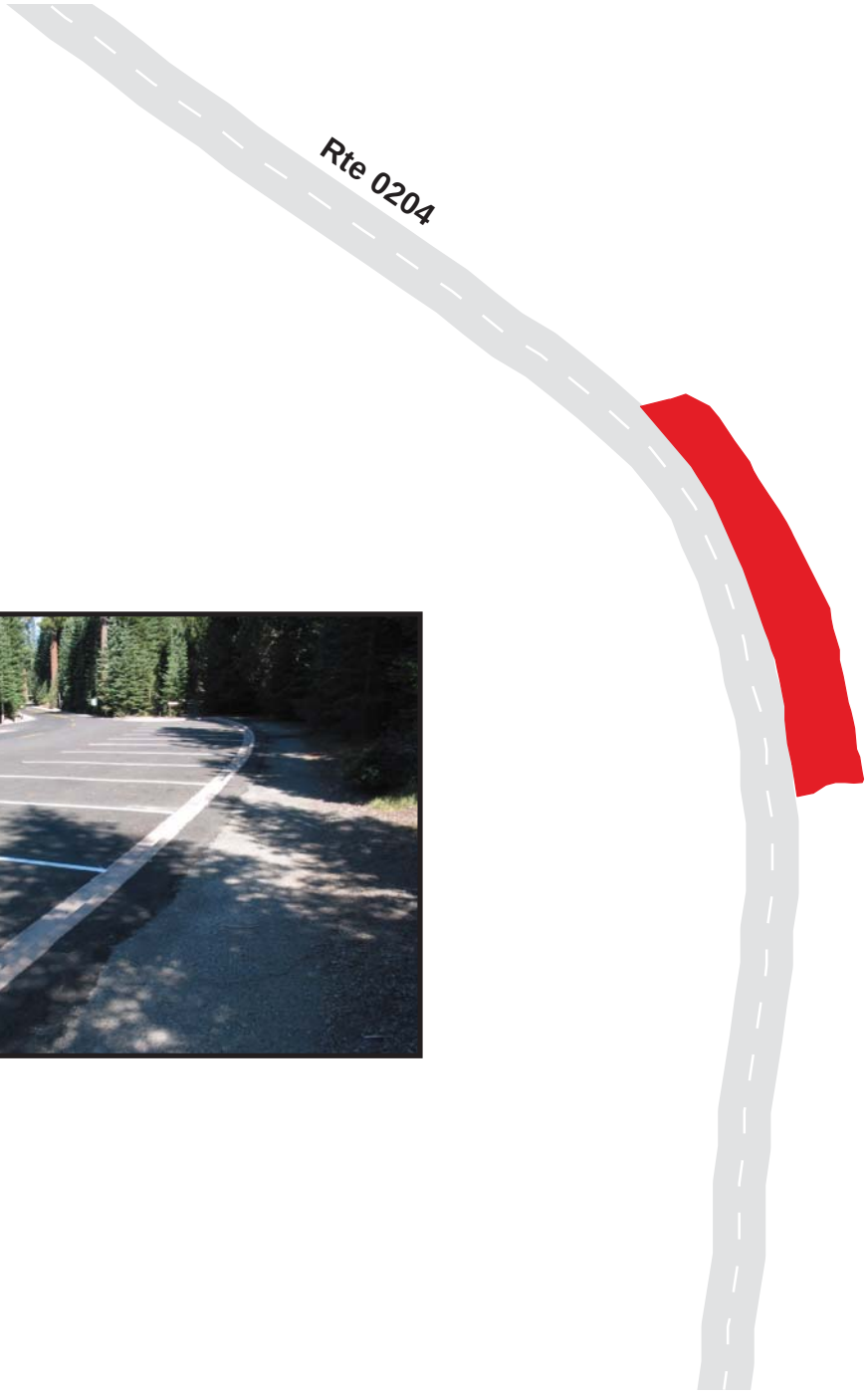
50 25 0 50
Feet

N

Lassen Volcanic National Park
Route 0920A
Manzanita Store Spur Parking A
Adjacent to Route 0204 on left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920A	Public	8/28/2002	4913	0.08	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

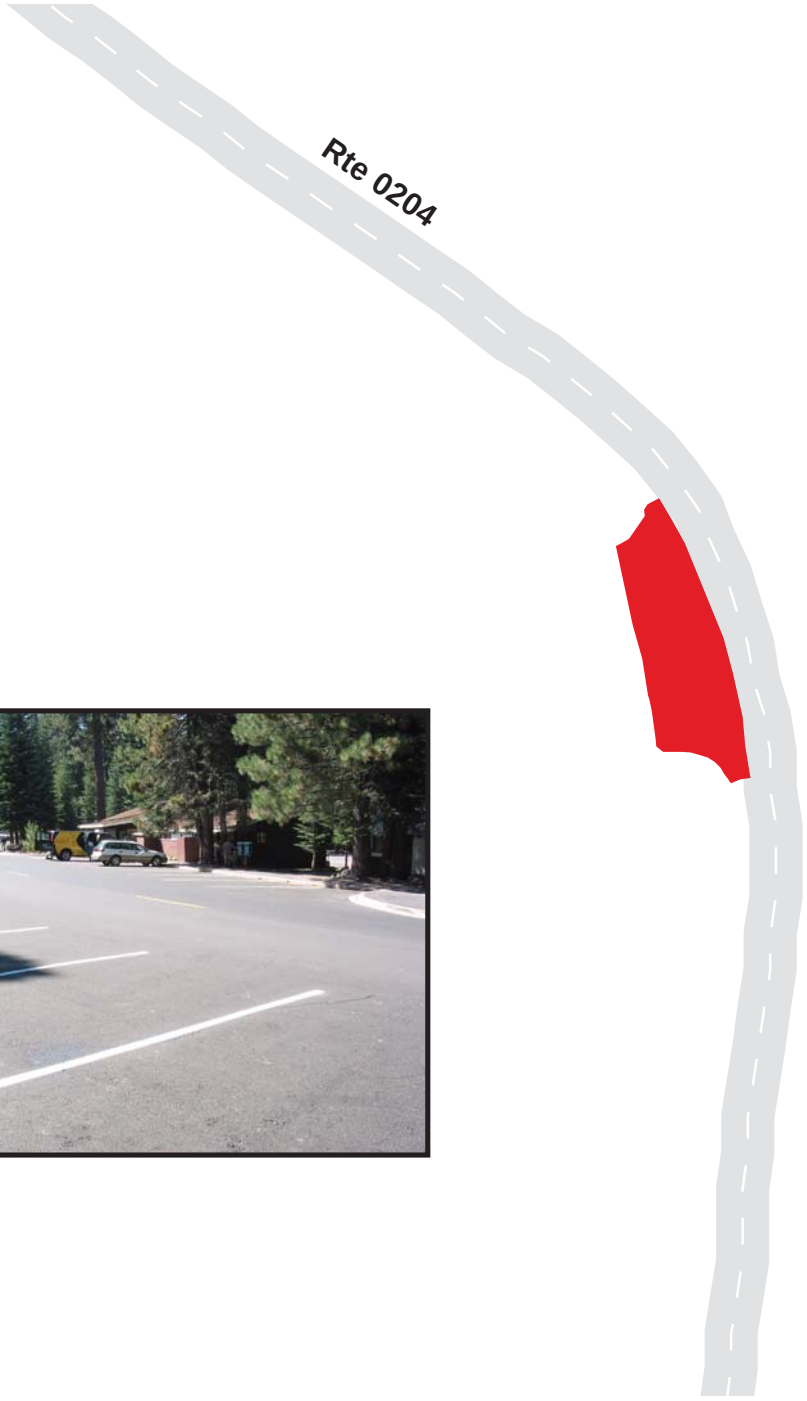
N

Lassen Volcanic National Park
Route 0920B

Manzanita Store Spur Parking B
Adjacent to Route 0204 on right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920B	Public	8/28/2002	3733	0.06	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

N

Lassen Volcanic National Park
Route 0920C
Manzanita Store Spur Parking C
From Route 0204 on right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920C	Public	8/28/2002	13261	0.23	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths

100 50 0 100
Feet

N

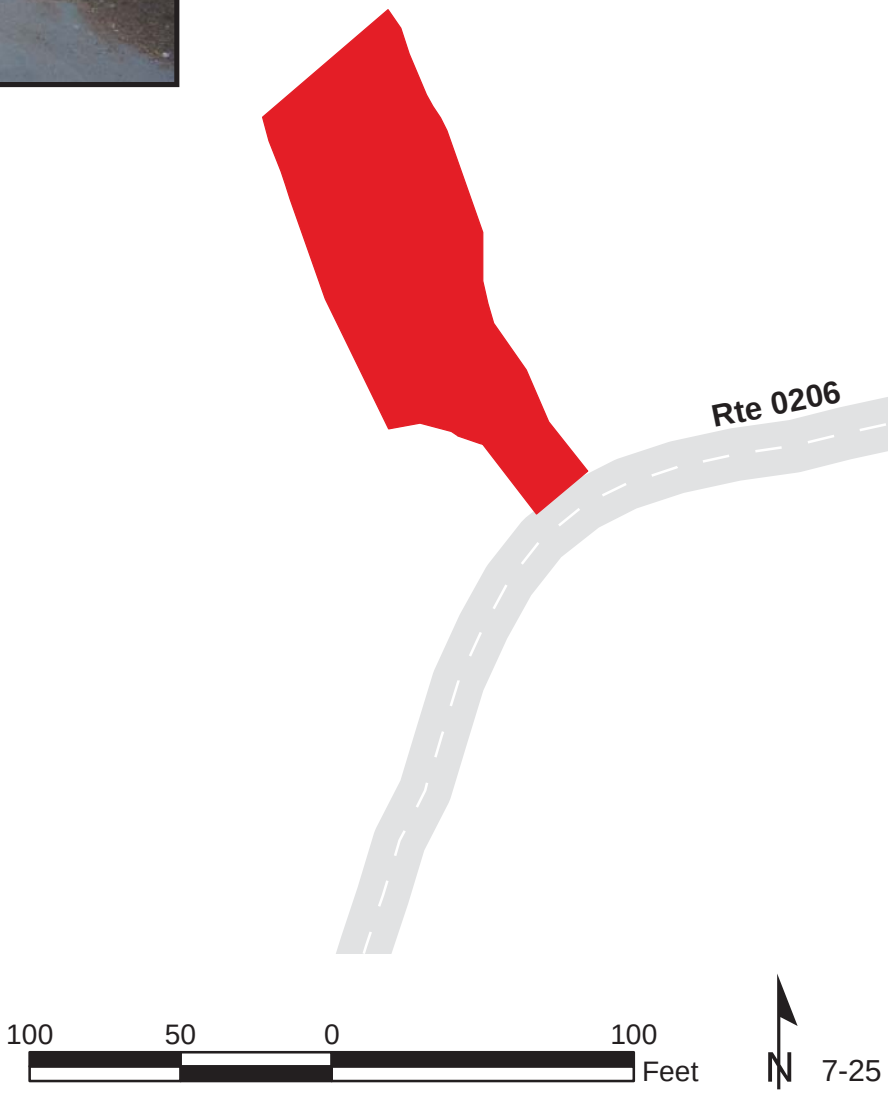
7-24

Lassen Volcanic National Park
Route 0921A

Manzanita Lake Access Parking A
Adjacent to Route 0206

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921A	Public	8/28/2002	5701	0.10	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0921B
Manzanita Lake Access Parking B
Adjacent to Route 0206

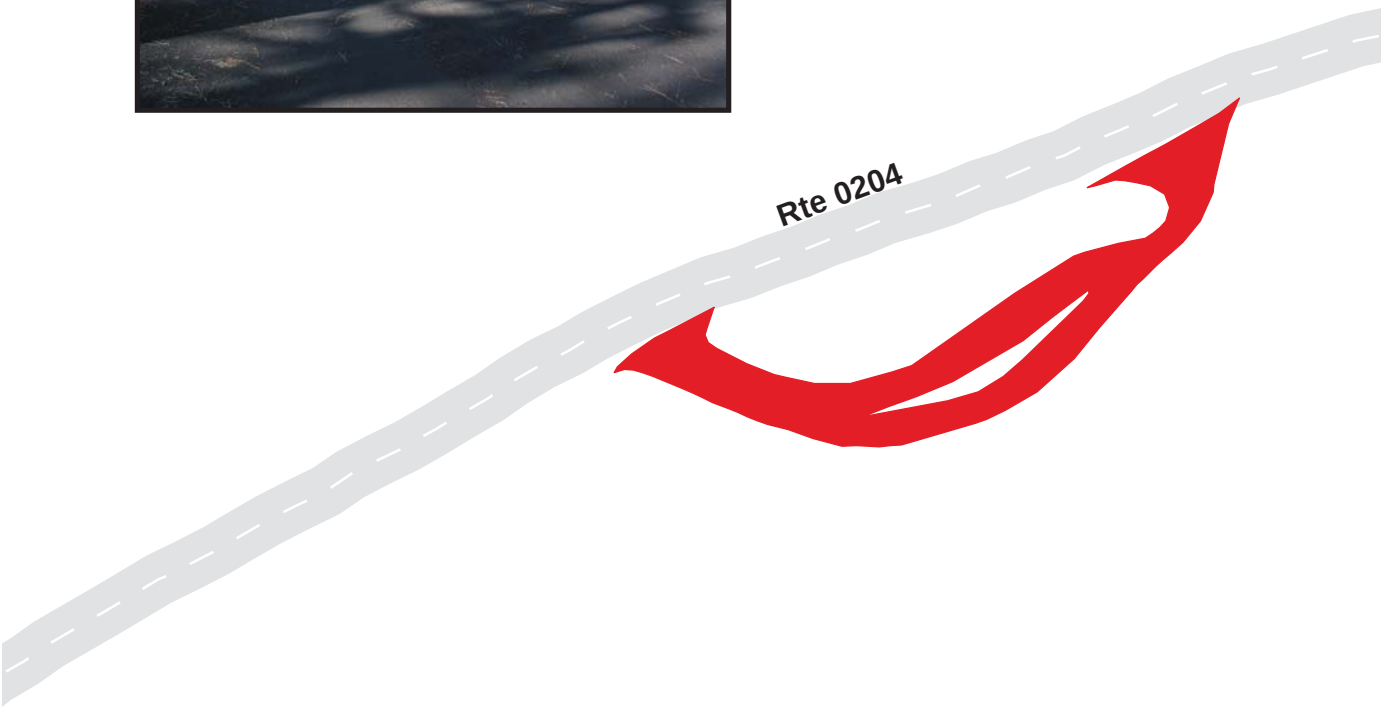
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921B	Public	8/28/2002	6757	0.12	AS	FAIR / 73

* Lane miles are based on 11' lane widths

Lassen Volcanic National Park
Route 0922
Manzanita Dump Station Parking
From Route 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922	Public	8/28/2002	10863	0.19	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

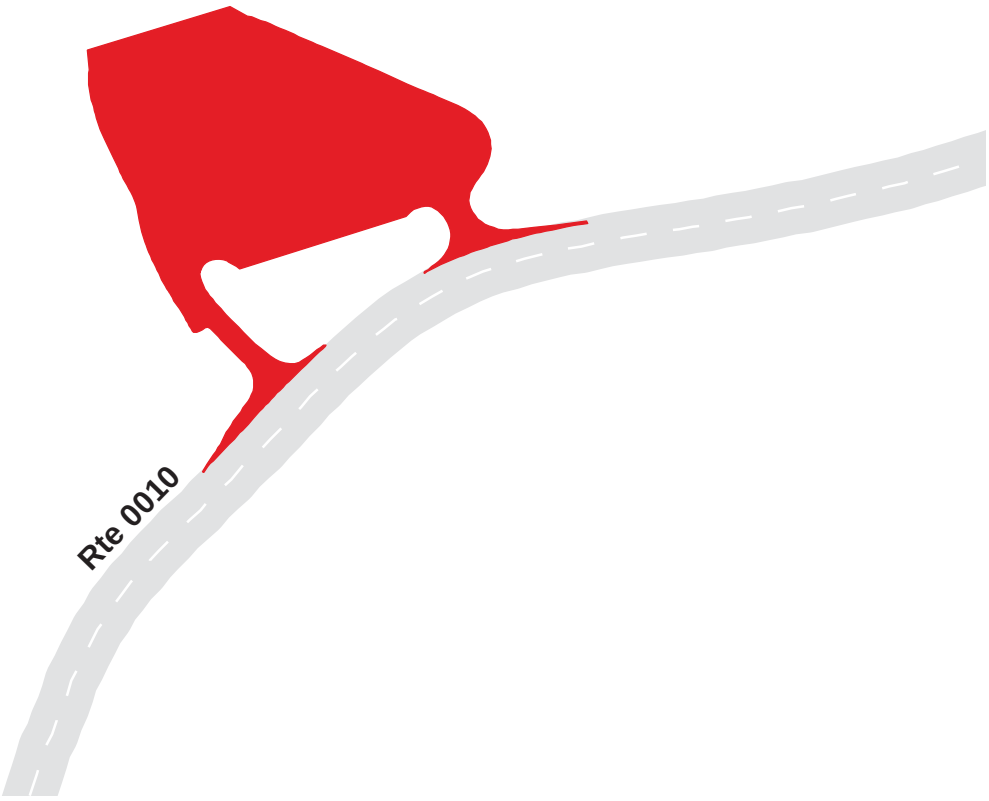
N

7-27

Lassen Volcanic National Park
Route 0923
Lassen Peak Trailhead Loop Parking
Adjacent to Route 0010 at MP 7.9

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923	Public	8/28/2002	98005	1.69	AS	GOOD / 90

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

N

Lassen Volcanic National Park
Route 0924
Loomis Museum Parking
From Route 0010

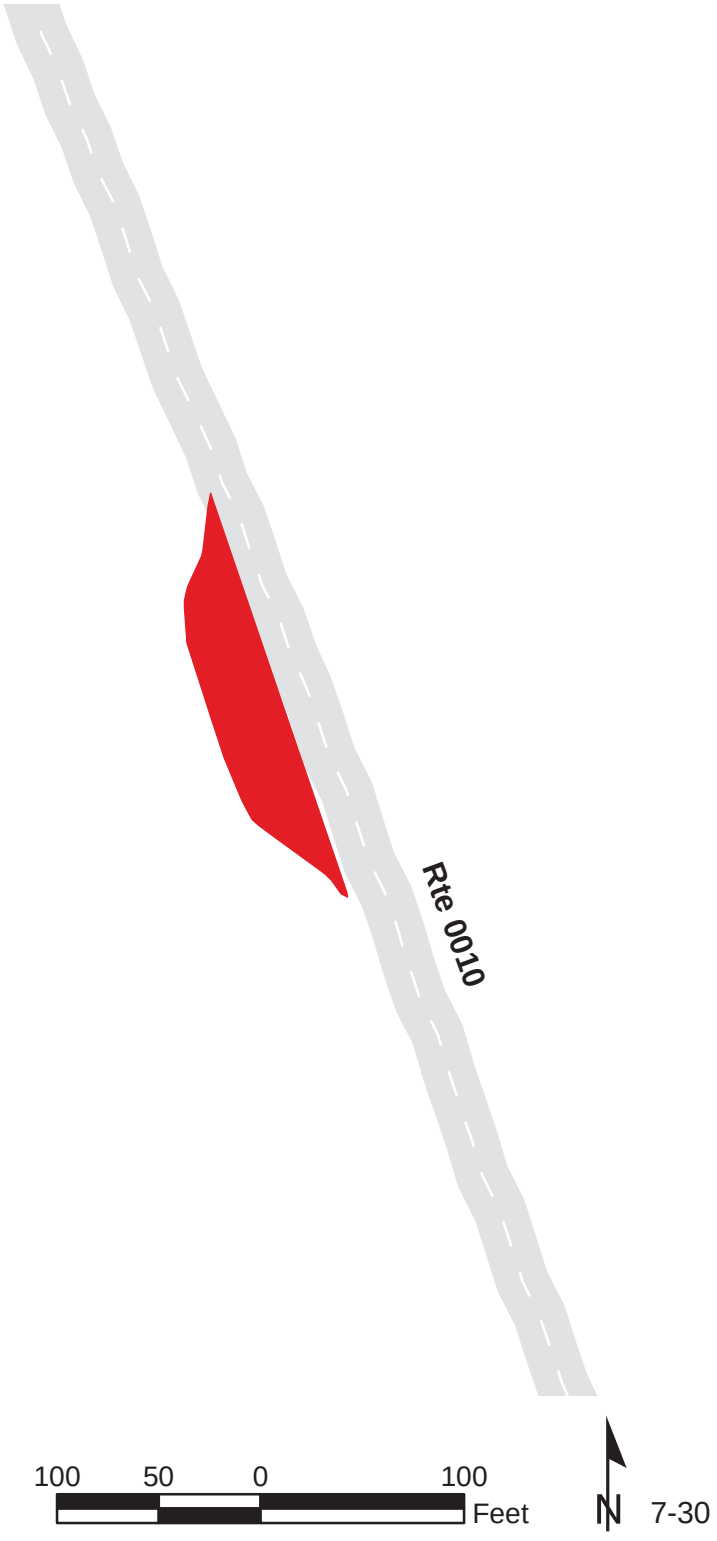
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0924	Public	8/28/2002	24346	0.42	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths

Lassen Volcanic National Park
Route 0925
Old Visitor Center Parking
Adjacent to Route 0010 at MP 29.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925	Public	8/28/2002	4032	0.07	AS	EXCELLENT / 97

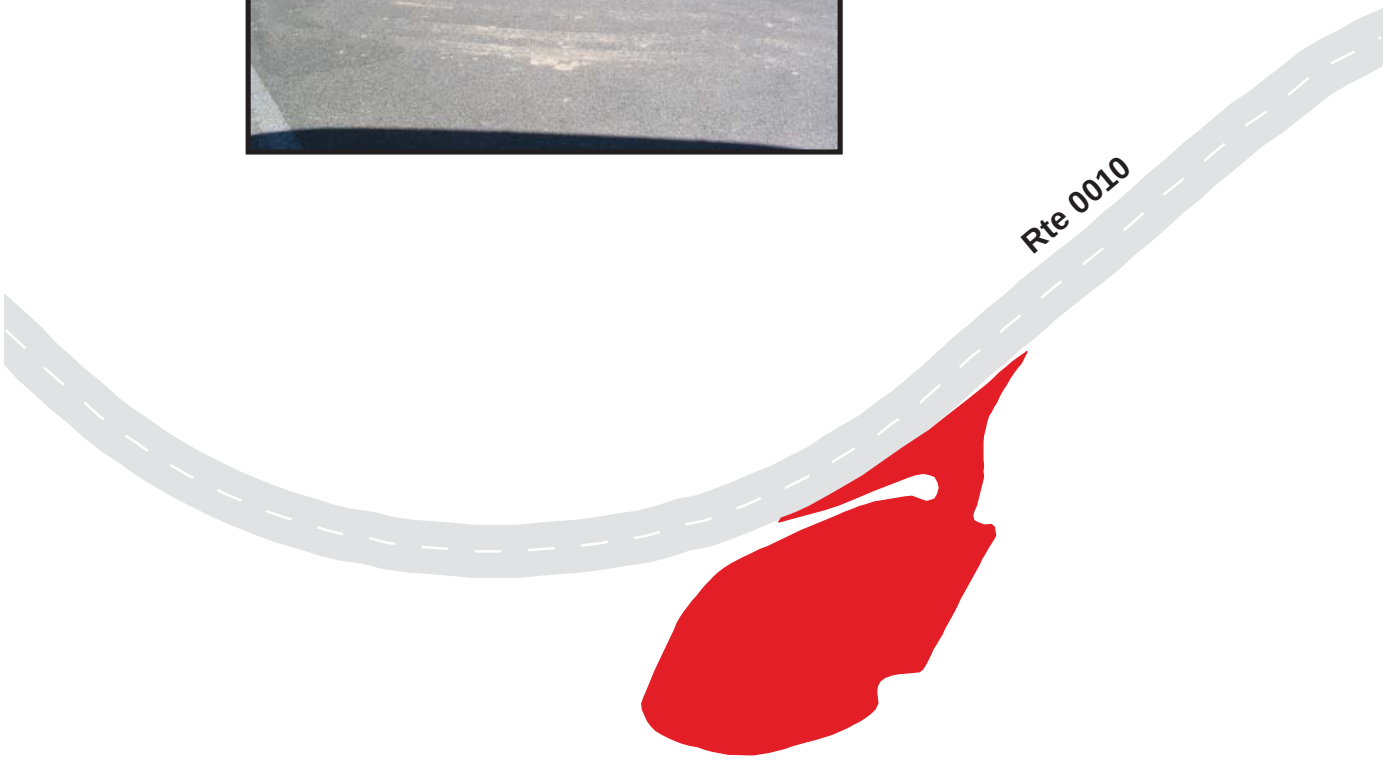
* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0926
Bumpass Parking
Adjacent to Route 0010 at MP 6.7

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0926	Public	8/28/2002	36679	0.63	AS	GOOD / 90

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

N

Lassen Volcanic National Park
Route 0929A

Emerald Lake Picnic Area Parking A
Adjacent to Route 0010 at MP 6.2

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929A	Public	8/28/2002	5029	0.09	AS	GOOD / 90

* Lane miles are based on 11' lane widths

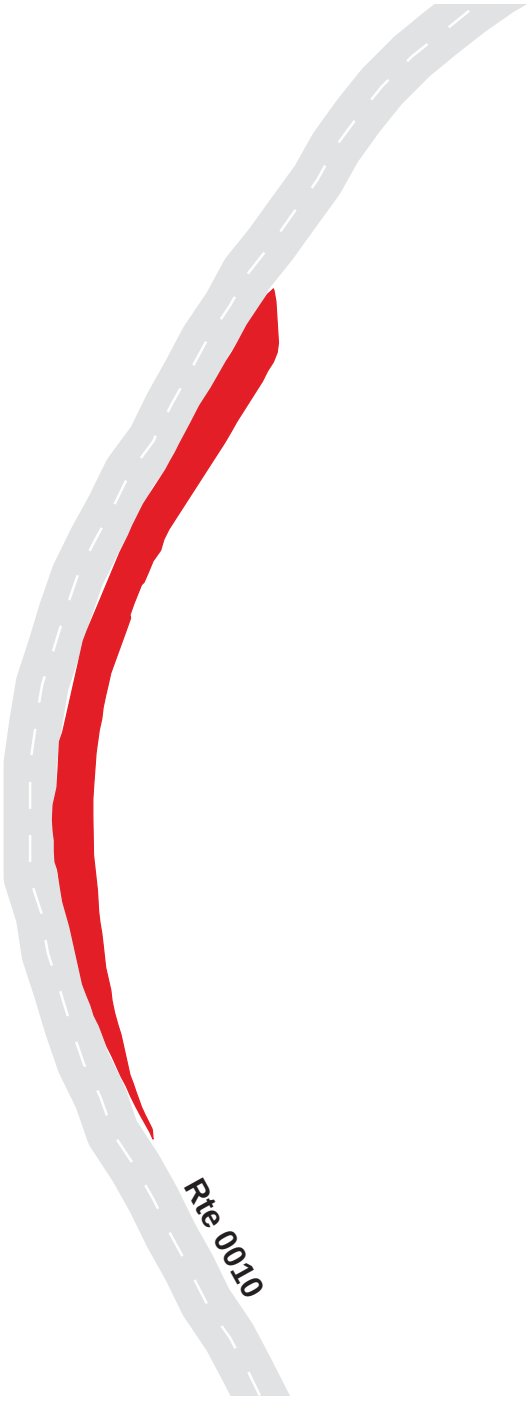
100 50 0 100
Feet

N

Lassen Volcanic National Park
Route 0929B
Emerald Lake Picnic Area Parking B
Adjacent to Route 0010 at MP 6.3

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929B	Public	8/28/2002	4766	0.08	AS	GOOD / 90

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

N

Lassen Volcanic National Park
Route 0931
Maintenance Service RV Parking
Adjacent to Route 0416

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931	Public	8/28/2002	8569	0.15	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths

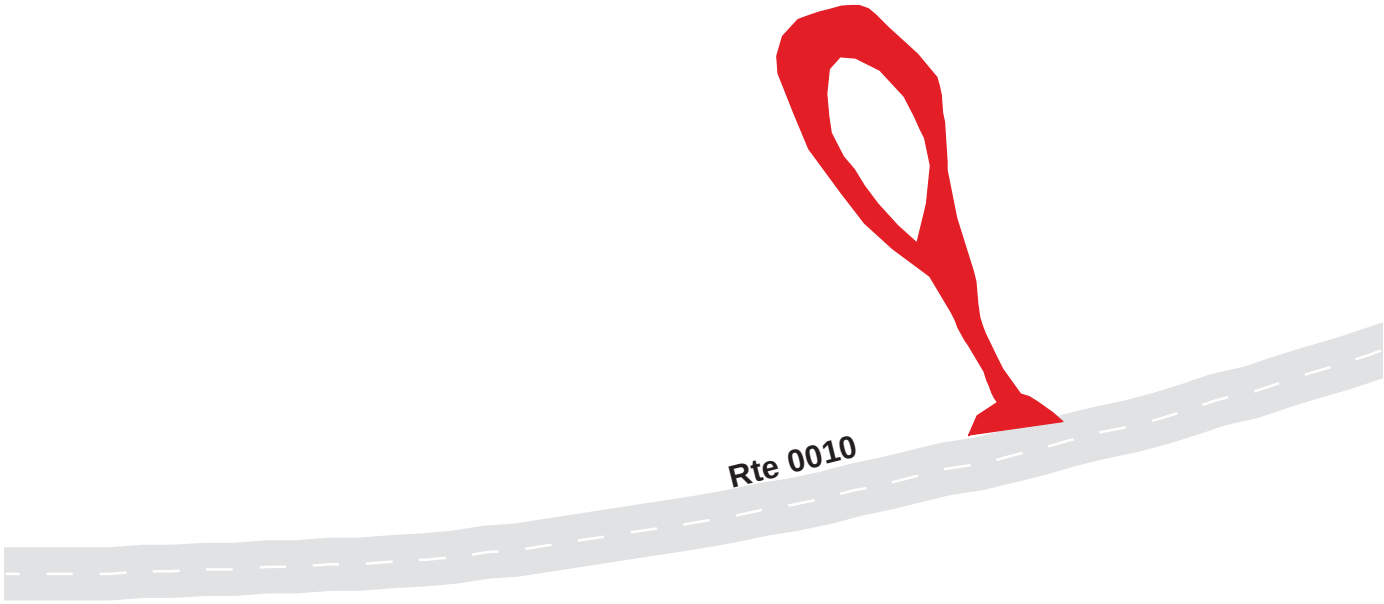
100 50 0 100
Feet

N

Lassen Volcanic National Park
Route 0932
Lily Pond Trailhead Parking
From Route 0010 at MP 28.47

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0932	Public	8/28/2002	6467	0.11	OC	POOR / 45

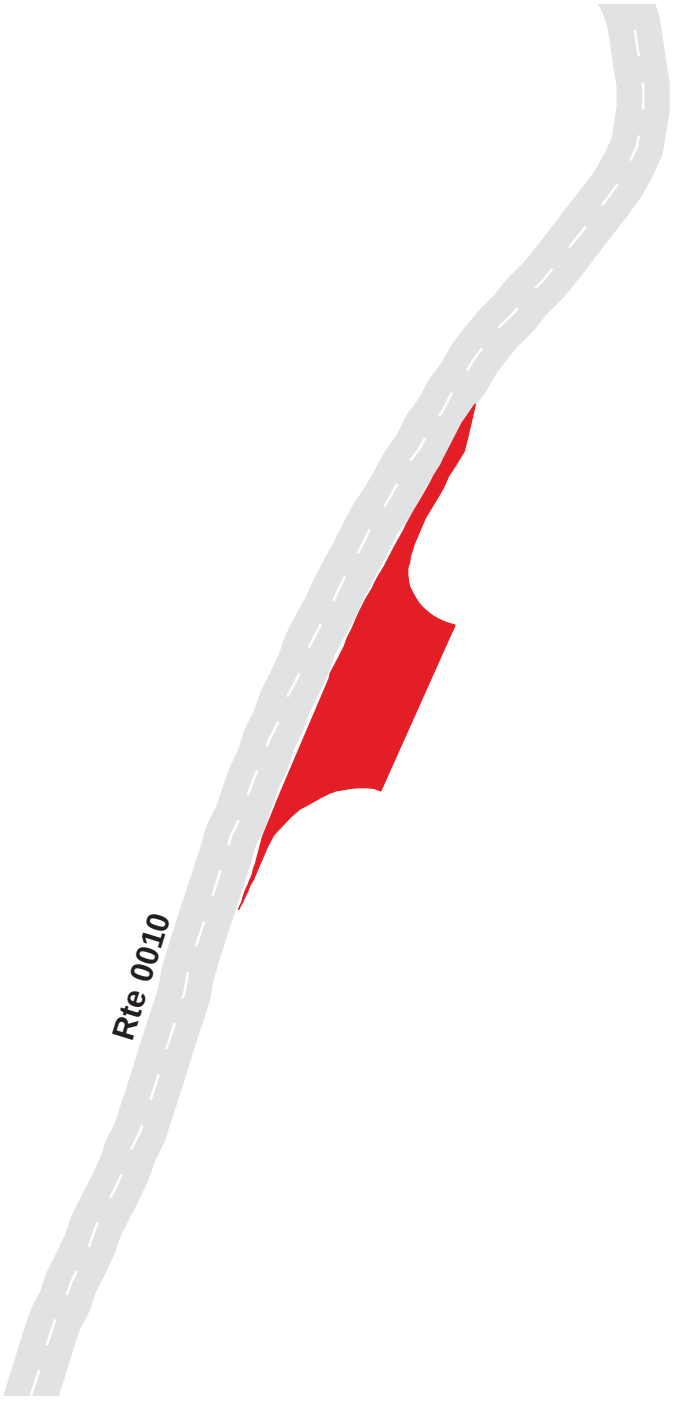
* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0933
Little Hot Springs Overlook Parking
Adjacent To Route 0010 at MP 5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0933	Public	8/28/2002	14075	0.24	OT	NC / -1

* Lane miles are based on 11' lane widths



150 75 0 150
Feet

N

Lassen Volcanic National Park
Route 0935
Manzanita Old Restroom Parking
Adjacent To Route 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0935	Public	8/28/2002	1390	0.02	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths

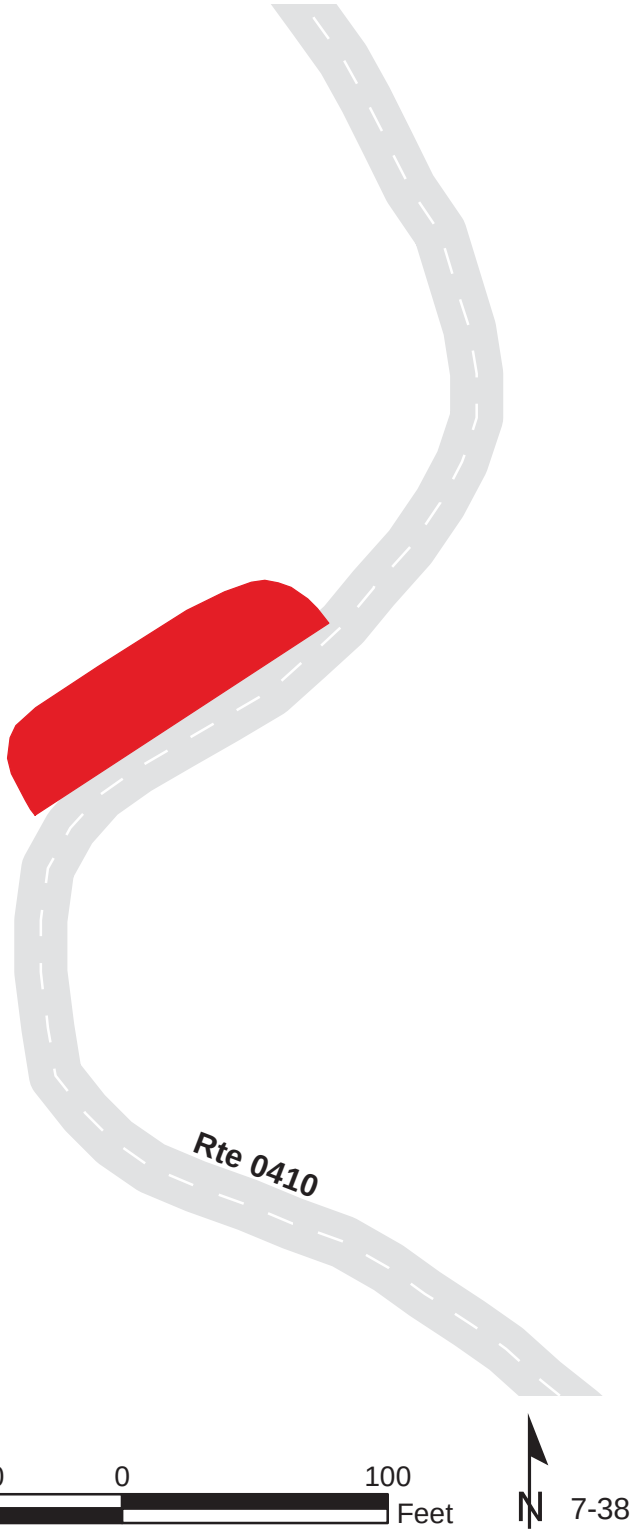
50 25 0 50
Feet

N

Lassen Volcanic National Park
Route 0941
Manzanita Service Parking
Adjacent to Route 0410

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0941	NonPublic	8/28/2002	3121	0.05	OC	POOR / 45

* Lane miles are based on 11' lane widths



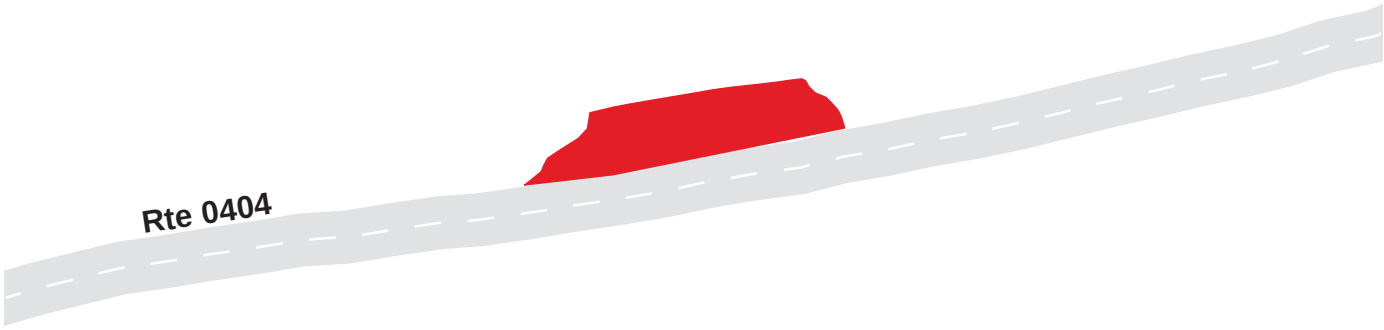
Lassen Volcanic National Park
Route 0942A

Manzanita Residence Parking A

Adjacent to Route 0404 at MP 0.08 on right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0942A	Public	8/28/2002	2056	0.04	AS	POOR / 45

* Lane miles are based on 11' lane widths



100 50 0 100 Feet

N

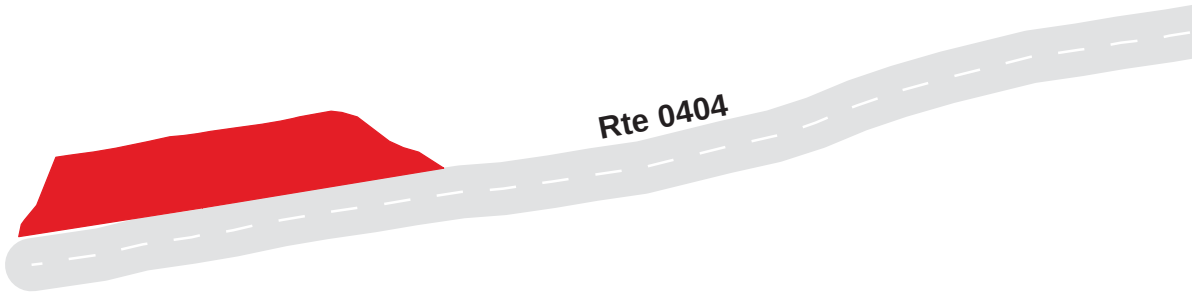
Lassen Volcanic National Park
Route 0942B

Manzanita Residence Parking B

Adjacent to Route 0404 at MP 0.16 on right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0942B	Public	8/28/2002	3213	0.06	AS	FAIR / 73

* Lane miles are based on 11' lane widths



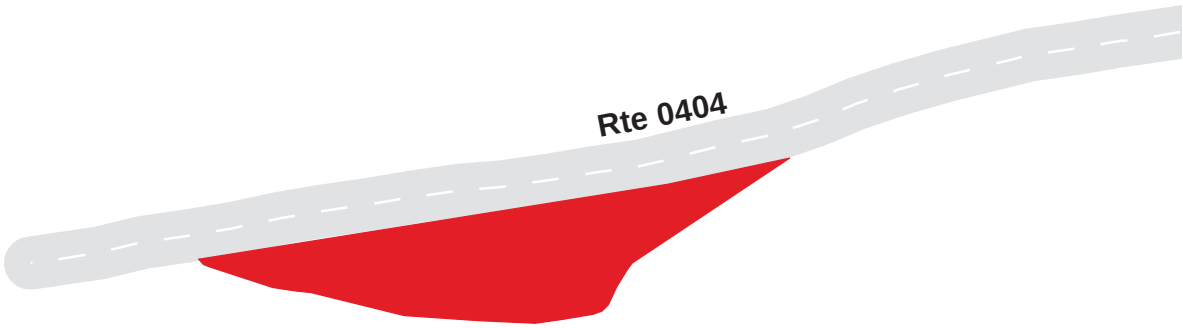
Lassen Volcanic National Park
Route 0942C

Manzanita Residence Parking C

Adjacent to Route 0404 at MP 0.14 on left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0942C	Public	8/28/2002	4894	0.08	AS	POOR / 45

* Lane miles are based on 11' lane widths



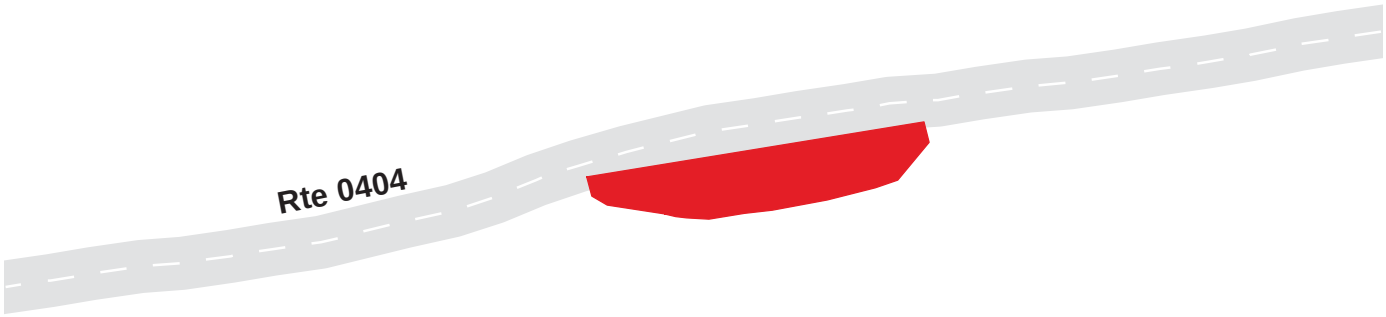
Lassen Volcanic National Park
Route 0942D

Manzanita Residence Parking D

Adjacent to Route 0404 at MP 0.11 on left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0942D	Public	8/28/2002	2194	0.04	AS	FAIR / 73

* Lane miles are based on 11' lane widths

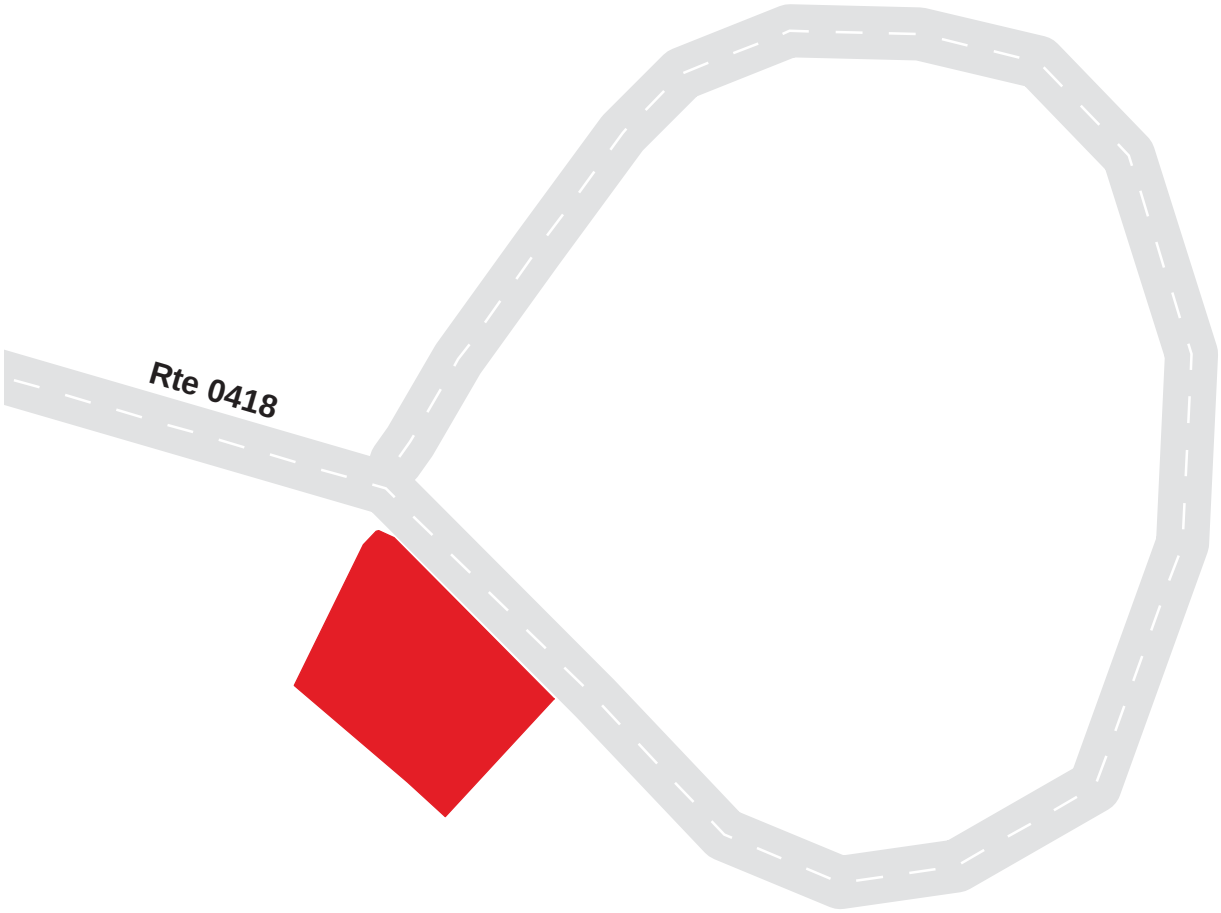


Lassen Volcanic National Park
Route 0943A

Reflection Lake Parking A
Adjacent to Route 0418 at end loop

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0943A	NonPublic	8/28/2002	1182	0.02	OC	POOR / 45

* Lane miles are based on 11' lane widths



50 25 0 50 Feet

N

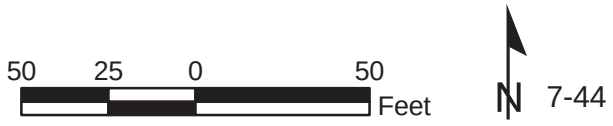
Lassen Volcanic National Park
Route 0943B

Reflection Lake Parking B

Adjacent to Route 0418 at end loop

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0943B	NonPublic	8/28/2002	5249	0.09	OC	POOR / 45

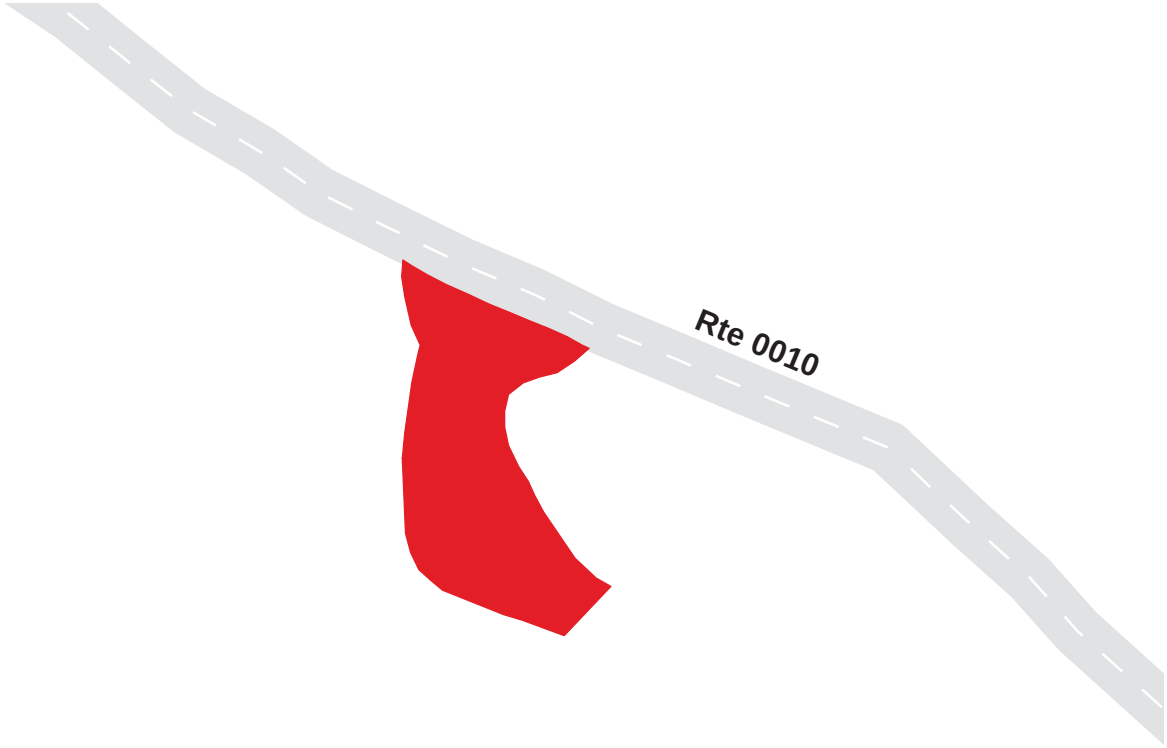
* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0944
Northwest Entrance Station Parking
Adjacent to Route 0010 at MP 29

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0944	Public	8/28/2002	1814	0.03	AS	POOR / 45

* Lane miles are based on 11' lane widths



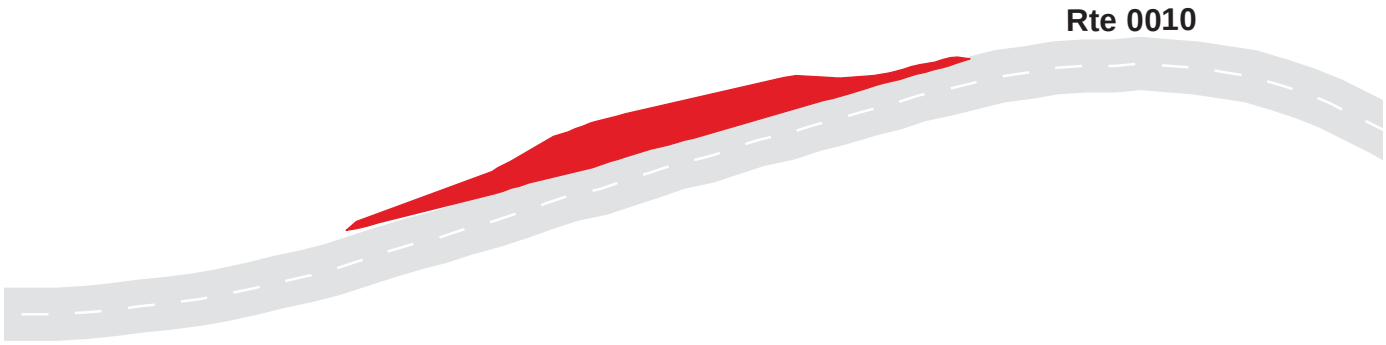
50 25 0 50
Feet

N

Lassen Volcanic National Park
Route 0945
Terrace Lake Parking
Adjacent to Route 0010 at MP 9.7

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0945	Public	8/28/2002	5270	0.09	AS	GOOD / 90

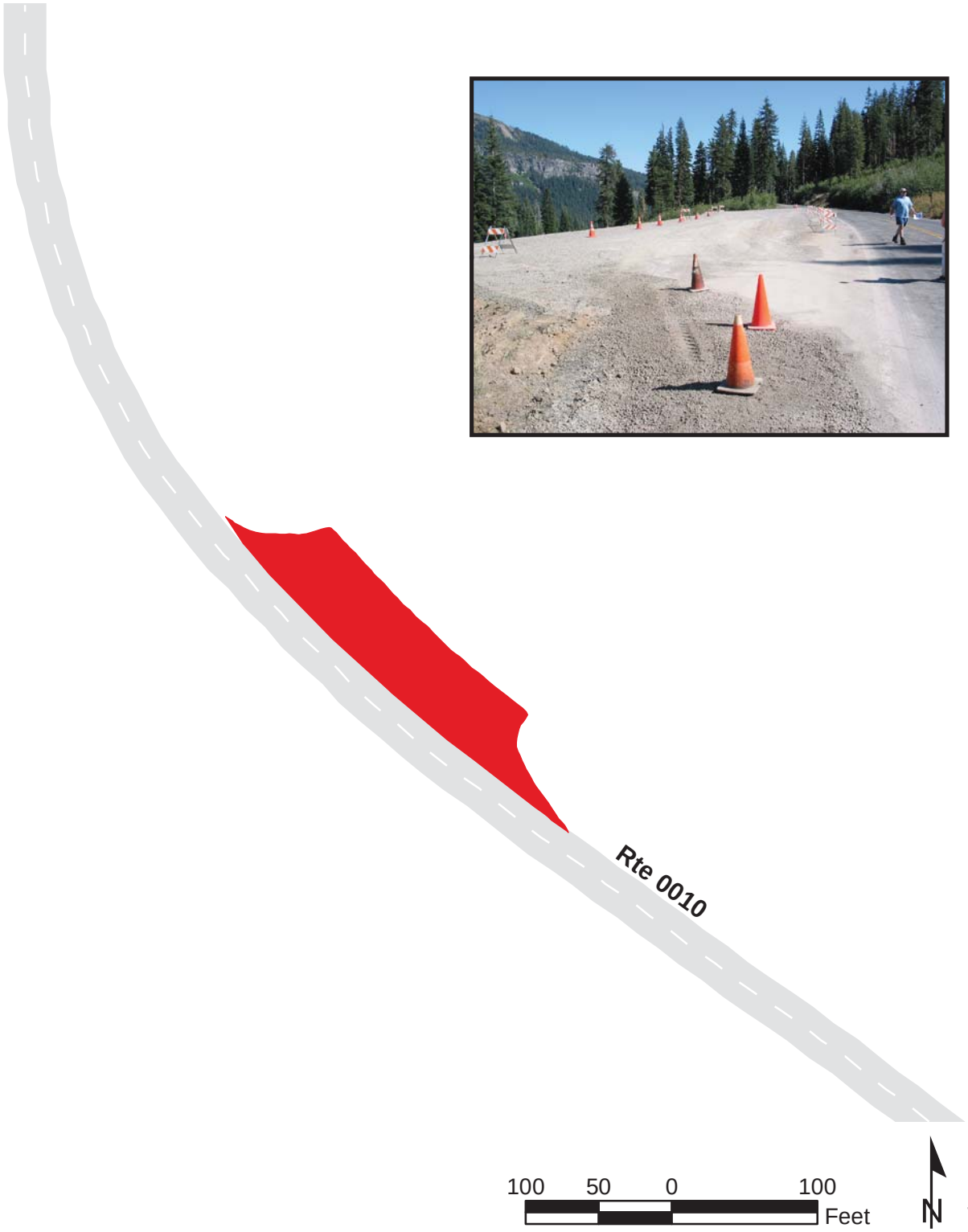
* Lane miles are based on 11' lane widths



Lassen Volcanic National Park
Route 0947
Trail Head Parking
Adjacent to Route 0010 at MP 0.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0947	Public	8/27/2002	8793	0.15	OT	NC / -1

* Lane miles are based on 11' lane widths



LAVO: PARKWIDE MAINTENANCE FEATURES SUMMARY

FEATURE	*PARK TOTAL*	*UNIT*
BRIDGE	2	EACH
CATTLE GUARD	0	EACH
CULVERT	1	EACH
CURB	8,532	LINEAR FEET
DROP INLET	12	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	155	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	438	LINEAR FEET
PULLOUT	29	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	1	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

LAVO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 LASSEN PARK ROAD	ROUTE 0204 MANZANITA AREA ACCESS ROAD	ROUTE 0206 MANZANITA LAKE ACCESS ROAD	ROUTE 0207 CRAGS CAMPGROUND	ROUTE 0208 LOST CREEK CAMPGROUND	ROUTE 0209 SUMMIT LAKE NORTH CAMPGROUND	UNIT
BRIDGE	2	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	7,487	729	317	0	0	0	LINEAR FEET
DROP INLET	12	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	47	20	5	7	11	5	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	438	0	0	0	0	0	LINEAR FEET
PULLOUT	29	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	1	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

LAVO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0210 SUMMIT LAKE RANGER STATION	ROUTE 0211 SUMMIT LAKE SOUTH CAMPGROUND	ROUTE 0212 KINGS CREEK ROAD	ROUTE 0404 MANZANITA EMPLOYEE RESIDENCE ROAD	ROUTE 0405 MANZANITA WATER TANK ROAD	ROUTE 0410 SUMMERTOWN ROAD	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	4	6	2	9	0	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

LAVO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	*ROUTE 0412 LASSEN HEADQUARTERS/ RESIDENCE LOOP ROAD*	*ROUTE 0413 LASSEN HEADQUARTERS/ RESIDENCE LOOP ROAD*	*ROUTE 0414 LASSEN HEADQUARTERS/ RESIDENCE LOOP ROAD*	*ROUTE 0415 MAINTENANCE ACCESS ROAD (OLD VIOLA ROAD)*	*ROUTE 0416 MAINTENANCE SERVICE ROAD*	*ROUTE 0418 REFLECTION LAKE ROAD*	*UNIT*
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	1	0	0	0	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	7	4	5	8	4	1	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

LAVO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	*ROUTE 0419 LASSEN FIRE STATION ROAD*	*UNIT*
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	4	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : LASSEN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT SOUTH BOUNDARY
0.498	0.543	CURB	RIGHT	
0.516	0.516	INTERSECTION	RIGHT	RTE 947, UNDER CONSTRUCTION
0.899	0.990	CURB	LEFT	
0.906	0.920	CURB	RIGHT	
0.907	0.920	CURB	LEFT	
0.909	0.909	INTERSECTION	RIGHT	RTE 907
0.949	0.949	DROP INLET	LEFT	
0.961	0.961	INTERSECTION	RIGHT	RTE 906
0.971	1.078	CURB	RIGHT	
1.083	1.083	INTERSECTION	RIGHT	RTE 906
1.087	1.109	CURB	RIGHT	
1.789	1.861	CURB	LEFT	
1.815	1.854	BRIDGE	N/A	
1.820	1.820	DROP INLET	RIGHT	
1.826	1.826	DROP INLET	RIGHT	
1.848	1.848	DROP INLET	LEFT	
1.852	1.852	DROP INLET	LEFT	
1.861	1.861	DROP INLET	LEFT	
1.866	1.866	INTERSECTION	LEFT	RTE 908
1.874	1.882	CURB	LEFT	
1.903	1.903	INTERSECTION	LEFT	RTE 908
1.907	1.996	CURB	LEFT	
1.908	1.996	CURB	RIGHT	
2.587	2.606	PULLOUT	RIGHT	
3.332	3.332	DROP INLET	LEFT	

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : LASSEN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.364	3.364	DROP INLET	LEFT	
3.552	3.552	DROP INLET	LEFT	
3.682	3.774	CURB	LEFT	
4.895	4.974	CURB	RIGHT	
4.934	4.934	INTERSECTION	RIGHT	RTE 933, UNDER CONSTRUCTION
5.360	5.443	PAVED DITCH	RIGHT	
6.060	6.108	RETAINING WALL	LEFT	
6.192	6.214	CURB	RIGHT	
6.198	6.198	INTERSECTION	RIGHT	RTE 929A
6.284	6.359	CURB	RIGHT	
6.330	6.330	INTERSECTION	RIGHT	RTE 929B
6.663	6.663	INTERSECTION	RIGHT	RTE 926
6.886	6.937	PULLOUT	RIGHT	
6.980	6.980	INTERSECTION	LEFT	RTE 909
7.563	7.589	PULLOUT	LEFT	
7.745	7.745	INTERSECTION	LEFT	
7.802	7.802	INTERSECTION	LEFT	RTE 923
7.849	7.849	INTERSECTION	LEFT	RTE 923
8.403	8.403	INTERSECTION	RIGHT	
8.623	8.665	PULLOUT	RIGHT	
9.148	9.189	PULLOUT	RIGHT	
9.244	9.302	PULLOUT	RIGHT	
9.693	9.761	PULLOUT	LEFT	
9.808	9.808	INTERSECTION	LEFT	RTE 945
10.389	10.434	PULLOUT	RIGHT	
10.784	10.817	PULLOUT	RIGHT	
11.066	11.112	PULLOUT	LEFT	

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : LASSEN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
11.335	11.384	PULLOUT	LEFT	
11.710	11.725	CURB	LEFT	
11.729	11.758	PULLOUT	LEFT	
11.864	11.928	PULLOUT	LEFT	
12.009	12.009	INTERSECTION	RIGHT	RTE 212
12.146	12.177	PULLOUT	RIGHT	
12.477	12.520	PULLOUT	LEFT	
12.572	12.635	PULLOUT	LEFT	
12.783	12.809	PULLOUT	LEFT	
12.837	12.868	PULLOUT	LEFT	
13.007	13.039	PULLOUT	LEFT	
13.040	13.067	PULLOUT	RIGHT	
13.071	13.159	PULLOUT	RIGHT	
14.280	14.308	PULLOUT	RIGHT	
14.472	14.472	INTERSECTION	LEFT	RTE 408
15.195	15.232	PULLOUT	RIGHT	
15.722	15.735	PULLOUT	RIGHT	
16.401	16.401	INTERSECTION	RIGHT	RTE 211
16.448	16.482	PULLOUT	RIGHT	
16.542	16.542	INTERSECTION	RIGHT	RTE 209
16.569	16.569	INTERSECTION	LEFT	UNPAVED ROUTE
16.817	16.817	INTERSECTION	RIGHT	RTE 210
16.852	16.852	INTERSECTION	RIGHT	RTE 916A
16.871	16.885	CURB	LEFT	
16.876	16.876	INTERSECTION	LEFT	RTE 916B
18.068	18.121	PULLOUT	RIGHT	
18.619	18.637	CURB	RIGHT	

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : LASSEN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
18.634	18.634	DROP INLET	RIGHT	
18.676	18.780	CURB	RIGHT	
18.779	18.779	DROP INLET	RIGHT	
19.037	19.037	INTERSECTION	RIGHT	RTE 400
19.041	19.116	CURB	RIGHT	
19.179	19.179	INTERSECTION	RIGHT	RTE 915
19.183	19.200	CURB	RIGHT	
19.206	19.206	INTERSECTION	RIGHT	
19.235	19.237	BRIDGE	N/A	
19.245	19.280	CURB	RIGHT	
19.631	19.631	INTERSECTION	RIGHT	
19.694	19.694	INTERSECTION	RIGHT	RTE 914
19.716	19.804	CURB	LEFT	
20.547	20.583	PULLOUT	RIGHT	
20.550	20.580	CURB	RIGHT	
20.905	20.935	CURB	LEFT	
20.962	21.019	CURB	LEFT	
21.092	21.092	INTERSECTION	LEFT	RTE 417
21.614	21.677	PULLOUT	LEFT	
21.616	21.673	CURB	LEFT	
24.069	24.069	INTERSECTION	RIGHT	
24.311	24.311	INTERSECTION	RIGHT	RTE 208
24.509	24.509	INTERSECTION	RIGHT	RTE 207
26.041	26.041	INTERSECTION	LEFT	RTE 936
26.665	26.665	INTERSECTION	RIGHT	
28.440	28.440	INTERSECTION	LEFT	RTE 204
28.455	28.516	CURB	LEFT	

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : LASSEN PARK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
28.481	28.481	INTERSECTION	RIGHT	RTE 932
28.519	28.519	INTERSECTION	LEFT	RTE 924
28.666	28.666	INTERSECTION	RIGHT	RTE 418
28.702	28.702	INTERSECTION	RIGHT	RTE 418
28.968	28.968	INTERSECTION	RIGHT	RTE 410
28.987	29.030	PULLOUT	RIGHT	
28.988	28.988	DROP INLET	LEFT	
29.017	29.017	INTERSECTION	LEFT	RTE 944
29.362	29.362	INTERSECTION	LEFT	RTE 404
29.470	29.470	INTERSECTION	LEFT	RTE 925
29.592	29.592	INTERSECTION	RIGHT	RTE 903
29.627	29.627	INTERSECTION	LEFT	STATE HWY 44
29.628	29.628	INTERSECTION	RIGHT	STATE HWY 44
29.630	29.630			ROUTE ENDS AT STATE HWY 44

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0204 : MANZANITA AREA ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 286 LEFT
0.004	0.004	INTERSECTION	RIGHT	RTE 010
0.005	0.010	CURB	RIGHT	
0.011	0.011	INTERSECTION	RIGHT	RTE 924
0.020	0.042	CURB	RIGHT	
0.124	0.124	INTERSECTION	LEFT	RTE 936
0.236	0.236	INTERSECTION	LEFT	RTE 405
0.282	0.282	INTERSECTION	LEFT	RTE 922
0.307	0.307	INTERSECTION	RIGHT	UNPAVED ROUTE
0.330	0.330	INTERSECTION	LEFT	RTE 922
0.452	0.452	INTERSECTION	RIGHT	RTE 206
0.453	0.487	CURB	RIGHT	
0.462	0.462	INTERSECTION	RIGHT	RTE 935
0.492	0.492	INTERSECTION	RIGHT	
0.516	0.516	INTERSECTION	RIGHT	
0.575	0.622	CURB	LEFT	
0.580	0.580	INTERSECTION	RIGHT	RTE 920C
0.588	0.618	CURB	RIGHT	
0.594	0.594	INTERSECTION	RIGHT	RTE 920B
0.599	0.599	INTERSECTION	LEFT	RTE 920A
0.621	0.621	INTERSECTION	RIGHT	
0.630	0.630	INTERSECTION	RIGHT	RTE 920C
0.673	0.673	INTERSECTION	RIGHT	RTE 205A
0.751	0.751	INTERSECTION	RIGHT	RTE 205B
0.809	0.809	INTERSECTION	RIGHT	RTE 205C
0.870	0.870			ROUTE ENDS AT RTE 205D
0.876	0.876	INTERSECTION	LEFT	RTE 205D

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0206 : MANZANITA LAKE ACCESS ROAD

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
0.000	0.000			ROUTE BEGINS AT RTE 204 MP 045 RIGHT, THEN
0.006	0.006	INTERSECTION	LEFT	RTE 204
0.023	0.023	INTERSECTION	RIGHT	RTE 921A
0.024	0.084	CURB	RIGHT	
0.060	0.060	INTERSECTION	RIGHT	RTE 921B
0.101	0.101	INTERSECTION	LEFT	RTE 206
0.115	0.115	INTERSECTION	RIGHT	
0.140	0.140			ROUTE ENDS AT LEFT AROUND LOOP

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0207 : CRAGS CAMPGROUND

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 247 RIGHT
0.009	0.009	INTERSECTION	LEFT	RTE 010
0.050	0.050	INTERSECTION	LEFT	RTE 207
0.063	0.063	INTERSECTION	RIGHT	RTE 919
0.160	0.160	INTERSECTION	RIGHT	
0.173	0.173	INTERSECTION	LEFT	
0.186	0.186	INTERSECTION	RIGHT	
0.300	0.300			ROUTE ENDS AT END OF LOOP
0.301	0.301	INTERSECTION	RIGHT	RTE 207

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0208 : LOST CREEK CAMPGROUND

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 245 RIGHT
0.004	0.004	INTERSECTION	LEFT	RTE 010
0.024	0.024	INTERSECTION	LEFT	RTE 208
0.034	0.034	INTERSECTION	RIGHT	RTE 918
0.113	0.113	INTERSECTION	RIGHT	
0.131	0.131	INTERSECTION	RIGHT	
0.171	0.171	INTERSECTION	RIGHT	
0.196	0.196	INTERSECTION	RIGHT	
0.208	0.208	INTERSECTION	RIGHT	
0.230	0.230	INTERSECTION	LEFT	
0.231	0.231	INTERSECTION	RIGHT	
0.296	0.296	INTERSECTION	LEFT	RTE 208
0.300	0.300			ROUTE ENDS AT END OF LOOP

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0209 : SUMMIT LAKE NORTH CAMPGROUND

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 167 RIGHT
0.036	0.036	INTERSECTION	LEFT	RTE 412A
0.054	0.054	INTERSECTION	LEFT	RTE 214A
0.068	0.068	INTERSECTION	RIGHT	RTE 912A
0.088	0.088	INTERSECTION	RIGHT	RTE 912B
0.090	0.090			ROUTE ENDS AT RTE 214B
0.096	0.096	INTERSECTION	LEFT	RTE 214B

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0210 : SUMMIT LAKE RANGER STATION

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 169 RIGHT
0.004	0.004	INTERSECTION	LEFT	RTE 010
0.037	0.037	INTERSECTION	LEFT	RTE 913
0.060	0.060			ROUTE ENDS AT END
0.067	0.067	INTERSECTION	RIGHT	
0.068	0.068	INTERSECTION	LEFT	

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0211 : SUMMIT LAKE SOUTH CAMPGROUND

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 165 RIGHT
0.004	0.004	INTERSECTION	RIGHT	RTE 010
0.096	0.096	INTERSECTION	LEFT	RTE 215C
0.147	0.147	INTERSECTION	LEFT	RTE 215C
0.223	0.223	INTERSECTION	LEFT	RTE 215D
0.250	0.250			ROUTE ENDS AT RTE 215E
0.261	0.261	INTERSECTION	LEFT	RTE 215D
0.263	0.263	INTERSECTION	RIGHT	RTE 215E

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0212 : KINGS CREEK ROAD

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 121 LEFT
0.004	0.004	INTERSECTION	LEFT	RTE 010
0.210	0.210			ROUTE ENDS AT RTE 910
0.210	0.210	INTERSECTION	RIGHT	RTE 910

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0404 : MANZANITA EMPLOYEE RESIDENCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 296 LEFT
0.005	0.005	INTERSECTION	RIGHT	RTE 010
0.035	0.035	INTERSECTION	LEFT	
0.043	0.043	INTERSECTION	LEFT	RTE 904
0.070	0.070	INTERSECTION	RIGHT	RTE 942A
0.101	0.101	INTERSECTION	LEFT	RTE 942D
0.108	0.108	INTERSECTION	RIGHT	
0.128	0.128	INTERSECTION	RIGHT	
0.137	0.137	INTERSECTION	LEFT	RTE 942C
0.152	0.152	INTERSECTION	RIGHT	RTE 942B
0.170	0.170			ROUTE ENDS AT END

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0405 : MANZANITA WATER TANK ROAD

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
		NO MAINTENANCE FEATURES IN ROUTE.		
0.000	0.000			ROUTE BEGINS AT RTE 204 MP 02 LEFT T
0.080	0.080			ROUTE ENDS AT END OF PAVEMENT

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0410 : SUMMERTOWN ROAD

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 292 RIGHT
0.004	0.004	INTERSECTION	RIGHT	RTE 010
0.065	0.065	INTERSECTION	LEFT	
0.152	0.152	INTERSECTION	LEFT	RTE 940
0.160	0.160	INTERSECTION	RIGHT	RTE 941
0.322	0.322	INTERSECTION	LEFT	
0.429	0.429	INTERSECTION	LEFT	
0.640	0.640			ROUTE ENDS AT END

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0412 : LASSEN HEADQUARTERS/ RESIDENCE LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 900
0.008	0.008	INTERSECTION	RIGHT	RTE 900
0.023	0.023	INTERSECTION	RIGHT	RTE 901
0.140	0.140	INTERSECTION	RIGHT	RTE 413
0.218	0.218	INTERSECTION	RIGHT	RTE 902
0.311	0.311	INTERSECTION	RIGHT	RTE 414
0.350	0.350			ROUTE ENDS AT RTE 900
0.362	0.362	INTERSECTION	LEFT	RTE 900
0.364	0.364	INTERSECTION	RIGHT	RTE 900

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0413 : LASSEN HEADQUARTERS/ RESIDENCE LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 412
0.005	0.005	INTERSECTION	RIGHT	RTE 412
0.106	0.106	INTERSECTION	LEFT	
0.122	0.122	INTERSECTION	LEFT	RTE 413
0.159	0.159	INTERSECTION	LEFT	RTE 413
0.160	0.160			ROUTE ENDS AT END OF LOOP

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0414 : LASSEN HEADQUARTERS/ RESIDENCE LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT END OF RTE 415
0.006	0.006	INTERSECTION	LEFT	RTE 415
0.138	0.138	INTERSECTION	LEFT	RTE 419
0.263	0.263	CULVERT	N/A	
0.284	0.284	INTERSECTION	RIGHT	RTE 415
0.289	0.289	INTERSECTION	LEFT	RTE 415
0.350	0.350			ROUTE ENDS AT RTE 412
0.352	0.352	INTERSECTION	LEFT	RTE 412

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0415 : MAINTENANCE ACCESS ROAD (OLD VIOLA ROAD)

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
0.000	0.000			ROUTE BEGINS AT STATE HWY 36
0.005	0.005	INTERSECTION	RIGHT	STATE HWY 36
0.074	0.074	INTERSECTION	LEFT	RTE 414
0.075	0.075	INTERSECTION	RIGHT	RTE 414
0.132	0.132	INTERSECTION	LEFT	RTE 419
0.136	0.136	INTERSECTION	RIGHT	RTE 902A
0.159	0.159	INTERSECTION	RIGHT	RTE 902
0.180	0.180			ROUTE ENDS AT END @ RTE 902
0.186	0.186	INTERSECTION	LEFT	RTE 414
0.186	0.186	INTERSECTION	RIGHT	RTE 902A

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0416 : MAINTENANCE SERVICE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE HWY 36
0.005	0.005	INTERSECTION	RIGHT	STATE HWY 36
0.149	0.149	INTERSECTION	LEFT	
0.150	0.150	INTERSECTION	RIGHT	RTE 931
0.230	0.230			ROUTE ENDS AT END OF PAVEMENT
0.237	0.237	INTERSECTION	RIGHT	

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0418 : REFLECTION LAKE ROAD

FROM MILEPOST	*TO MILEPOST*	*FEATURE*	*SIDE*	*COMMENT*
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 289 RIGHT
0.006	0.006	INTERSECTION	LEFT	RTE 010
0.190	0.190			ROUTE ENDS AT END OF LOOP

LAVO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0419 : LASSEN FIRE STATION ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 414
0.009	0.009	INTERSECTION	LEFT	RTE 414
0.027	0.027	INTERSECTION	RIGHT	RTE 902B
0.079	0.079	INTERSECTION	LEFT	RTE 415
0.079	0.079	INTERSECTION	RIGHT	RTE 415
0.080	0.080			ROUTE ENDS AT RTE 415

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
8400	Numeric Code for Lassen Volcanic National Park
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
LAVO	Alpha Code for Lassen Volcanic National Park
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total defined "season"
SCR	Surface Condition Rating (see Section 10)
Shoulder Condition Rating	Visual rating (Good, Poor) of the condition of shoulder. (see Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point

APPENDIX B: DESCRIPTION OF RATING SYSTEM

A numerical roadway rating system is used to describe the overall condition of the paved roadways and paved parking areas. In this system, a numerical rating between 1 and 100 is ascribed to each 0.02 miles of road. This numerical rating is called a Pavement Condition Rating (PCR). A "perfect" road, newly constructed with no surface distresses and a smooth surface, would be assigned a PCR rating of 100. Based on the type, severity, and extent of surface distresses points are deducted from 100 to arrive at the final PCR.

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can ocurr anywhere in the lane.

- **Longitudinal Cracking** - cracks which are parallel to the pavement centerline or asphalt lay-down direction.

- **Transverse Cracking** - cracks perpendicular to the pavement centerline.

- **Pothole (patch)** - a bowl-shaped hole in the pavement surface. May be patched or not.

- **Rutting** - surface depressions in the wheel paths.

Roughness is collected as International Roughness Index (IRI) and is used in the PCR formula. Roughness is measured in inches of vertical displacement of the vehicle per mile traveled.

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

Rating Index Formulas

Alligator Cracking Index = 100 - [40 * (%low/70 + %medium/30 + %high/10)]
Longitudinal Cracking Index = 100 - [40 * (%low/350 + %medium/200 + %high/75)]
Transverse Cracking Index = 100 – [(20 * (low/15.1 + medium/7.5)) + (40 * (high/1.9))]
Patching Index = 100 - [40 * (%patching / 80)]
Rutting Index: 100-[40*((low/160) + (med/80) + (high/40))]
Roughness Condition Index: (RCI) = $32 * [5 * e^{(-0.0041 * \text{average IRI})}]$

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

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

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

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

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

Ratings - Chip Seal:

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

Surface Condition - Asphalt:

Cracking of any type
Rutting
Potholes/Patching

Ratings - Asphalt:

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

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

Excellent	97
Good	90
Fair	73
Poor	45

Drainage Condition Rating Definitions

Good: Minimal overall drainage problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.

Poor: Problems exist that jeopardizes the integrity of the road in this section. If funding were available for pavement maintenance, 50% to 100% is estimated to correct drainage deficiencies.

Drainage Condition Rating Criteria

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

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

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

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

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

Shoulder Condition Rating Definitions

Good: The shoulder is generally in good functional condition. If curbs are present, they are functional.

Poor: There is no shoulder because erosion has removed it. If curbs are present, they need to be replaced.

Shoulder Rating Criteria

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

Good Shoulders

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

Poor Shoulder

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

APPENDIX C: DIGITAL IMAGE INFORMATION

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

Only Cycle 3 data can be queried and reviewed using the Visi-Data software program. This program is a multimedia data presentation and analysis tool that can be accessed either at the individual park, park region or at NPS headquarters. The data is organized in a hierarchical manner and presented in tabular and graphical formats. The user is able to perform queries and drill down through the data to find the particular information they are trying to query. Associated digital right-of-way images from the either the LAN, USB port, individual DVD, or from the Visi-web application, can be presented along with the GPS locations.

APPENDIX D: METADATA

ARAN ROUTE GPS DATA

Background information of route spatial data.

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

Data Collection Device:

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

Accuracy: Expected ground accuracy is 1 meter *

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

Geographic Datum: WGS 1984

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

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

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

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

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

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

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

Specific Caveats

- Three canned reports are titled "Features in Good Condition", "Features in Fair Condition," and "Features in Poor Condition." These titles could be misleading. In Cycle 3, condition assessments have been conducted on **signs only**. Condition assessments have not been conducted on non-sign features, such as culverts, guardrails, pullouts, etc. Although the database and canned reports might report a default value of "good" for un-assessed features, these condition values are not valid for import into FMSS.
- Database records that show a concrete surface type sometimes include index values that seem to show a perfect roadway (e.g., a Pavement Condition Rating (PCR) of 100). The Road Inventory Program does not actually conduct condition assessments of concrete surfaces. The perfect values are just default values assigned to unassessed sections of pavement and do not represent an assessment of the roadway surface's quality.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are **not accurate**. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage

space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route's primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS_Visidata table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS_20 and PMS_Mile tables simply exclude all opposite routes.

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

Key to Notes in Tables

(1): Note that only one value fits in field, so even if this value varies throughout the route, only one value is recorded here.
(2): Note that some MP values listed here are estimates recorded during the Route ID process for use by the data collection crew (e.g. "FROM ROUTE 0010 AT MILEPOST 30.3"). They are estimates only and are not expected to match the more accurate milepost values included elsewhere in the database in the BEG_MP, END_MP, and MP fields.
(3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.
(4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle's mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle's mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors' key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor. Features along the side of a roadway that are measured using the Surveyor software might not be located very accurately. Surveyor is known to be most accurate when measuring quantities near the center of the video frame, as opposed to in the edges of the video image.
(5): Only signs are evaluated for condition. No other features' conditions are assessed, so "N/A" was originally intended to be the default value for unassessed features. However, some non-sign features do have condition ratings in the database. These are not accurate, because no assessment was ever done on non-sign features.
(6): Condition assessments are not conducted on concrete (CO) surface types. Perfect values for concrete road sections are default values and do not represent a condition assessment of the concrete surfaces.
(7): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolution. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

Master Table Metadata:

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

PMS_Feature Table Metadata:

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

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

PMS_20, PMS_Mile & PMS_Visidata Tables Metadata:

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

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

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Manual Pavement Video Processing	Untested (6)
GPS_LAT	999.999999	Latitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_LON	-999.999999	Longitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_ELEV	99999.9	Elevation	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_MODE	XXX	GPS mode during collection	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
VIDEO	<*Park*>C03VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
LANEDEV_FLAG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
FILENAME	XXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISI_FROM	999999 (millimiles)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
VISI_TO	999999 (millimiles)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

Cycle 3 Shapefile Metadata

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

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: WGS 1984

lavo_seg

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lavo_seg
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Routes
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.614662
East_Bounding_Coordinate: -121.423897
North_Bounding_Coordinate: 40.569843
South_Bounding_Coordinate: 40.344658
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO

Access_Constraints: None
Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Good
Completeness_Report: Complete for routes
Lineage:
Source_Information:
Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 194

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000
Longitude_Resolution: 0.000000
Geographic_Coordinate_Units: Decimal degrees
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1927
Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_seg
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: FNODE_
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: TNODE_
Attribute:
Attribute_Label: LPOLY_
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RPOLY_
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LENGTH
Attribute_Definition:
Numeric PCR definition. Average PCR value based on programatic averaging of adjacent segments.
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 100
Attribute:
Attribute_Label: LAVO_SEG_
Attribute_Definition: Verbal PCR definition based on value in PCRAV field
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POOR

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

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

Attribute:
Attribute_Label: ID

Attribute:
Attribute_Label: RTE_NO

Attribute:
Attribute_Label: BMP

Attribute:
Attribute_Label: EMP

Attribute:
Attribute_Label: PCR

Attribute:
Attribute_Label: PCR_RATE

Attribute:
Attribute_Label: RT_LENGTH

Attribute:
Attribute_Label: PCRMI

Attribute:
Attribute_Label: PCR_RATEMI

Attribute:
Attribute_Label: PCR_RATEAV

Attribute:
Attribute_Label: PCRAV

Attribute:
Attribute_Label: TSR_EDIT

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:

Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

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lavo_pkg_03

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: lavo_pkg_03
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Parking Areas
Purpose: Road Inventory Program
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 8/28/2002
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.613804
East_Bounding_Coordinate: -121.423693
North_Bounding_Coordinate: 40.563674
South_Bounding_Coordinate: 40.344785
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO
Access_Constraints: None
Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:

Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 47

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

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_pkg_03
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: PARK_ALPHA
Attribute_Definition: Park alpha code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NAME
Attribute_Definition: Route name
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: FEATURE
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Domain_Values:
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating for route
Attribute:
Attribute_Label: PHOTOS
Attribute_Definition: Photo filename associated with feature
Attribute:
Attribute_Label: COMMENT
Attribute_Definition: Field comment
Attribute:
Attribute_Label: GPS_DATE
Attribute_Definition: Date of GPS collection
Attribute:
Attribute_Label: DATAFILE
Attribute:
Attribute_Label: SQ_FT

Attribute_Definition: Feature area in square feet

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

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

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lavo_pkg_03_map

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: lavo_pkg_03_map
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Copy of Parking Areas
Purpose: Road Inventory Program
Supplemental_Information:
This shapefile is a copy of the source parking shapefile. The features are edited as needed for graphic purposes.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 8/28/2002
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.613814
East_Bounding_Coordinate: -121.423693
North_Bounding_Coordinate: 40.563696
South_Bounding_Coordinate: 40.344768
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO
Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 47

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

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_pkg_03_map
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: PARK_ALPHA
Attribute_Definition: Park alpha code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NAME
Attribute_Definition: Route name
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: FEATURE
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Domain_Values:
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating for route
Attribute:
Attribute_Label: PHOTOS
Attribute_Definition: Photo filename associated with feature
Attribute:
Attribute_Label: COMMENT
Attribute_Definition: Field comment
Attribute:
Attribute_Label: GPS_DATE
Attribute_Definition: Date of GPS collection

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

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

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

Generated by mp version 2.7.33 on Mon Sep 26 11:00:49 2005

lavo_nonnps

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lavo_nonnps
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: non-NPS roads
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from heads-up digitizing of roads representing non-NPS roads for graphic purposes
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.568460
East_Bounding_Coordinate: -121.566123
North_Bounding_Coordinate: 40.538897
South_Bounding_Coordinate: 40.538229
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO
Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Good
Completeness_Report: Complete for non-NPS roads
Lineage:
Source_Information:
Type_of_Source_Media: Heads-up digitized
Process_Step:
Process_Description: Metadata imported.
Source_Used_Citation_Abbreviation:
J:\FHWA_RoadInvProg\Data\Park_TSR_source\Template_Folders\Section_10\template_nonnps_03.xml

---

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 1

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000
Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1927
Ellipsoid_Name: Clarke 1866
Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_nonnps
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: Id
Attribute_Definition: Name of road if available
Attribute:
Attribute_Label: name

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.008

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator

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

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lavo_mrl_03

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Published Materials
Title: lavo_mrl_03
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Manually Rated Roads - Lines
Purpose: Road Inventory Program
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 9/14/2000
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.565419
East_Bounding_Coordinate: -121.422855
North_Bounding_Coordinate: 40.531266
South_Bounding_Coordinate: 40.488767
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO
Access_Constraints: None
Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:

Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 10

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

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_mrl_03
Entity_Type_Definition_Source: GPS
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Enumerated_Domain:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: PARK_ALPHA
Attribute_Definition: Park alpha code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route Number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NAME
Attribute_Definition: Route Name
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: SECTION_
Attribute_Definition: Route Section ID
Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating
Attribute_Domain_Values:
Attribute:
Attribute_Label: COMMENT
Attribute_Definition: Field comment
Attribute:
Attribute_Label: GPS_DATE
Attribute_Definition: Date of GPS Collection
Attribute:
Attribute_Label: DATAFILE

Attribute:
Attribute_Label: PAVED_MI
Attribute_Definition: Width of the paved area
Attribute:
Attribute_Label: PAVED_MI
Attribute_Definition: Calculated paved miles

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.037

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

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lavo_mrl_03_map

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Published Materials
Title: lavo_mrl_03_map
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Copy of Manually Rated Roads - Lines
Purpose: Road Inventory Program
Supplemental_Information:
This shapefile is a copy of the source manually rated lines shapefile. The features are edited as needed for graphic purposes.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 9/14/2000
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.565419
East_Bounding_Coordinate: -121.422855
North_Bounding_Coordinate: 40.531266
South_Bounding_Coordinate: 40.488767
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO
Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 10

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

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_mrl_03_map
Entity_Type_Definition_Source: GPS
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Enumerated_Domain:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: PARK_ALPHA
Attribute_Definition: Park alpha code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route Number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NAME
Attribute_Definition: Route Name
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: SECTION_
Attribute_Definition: Route Section ID
Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating
Attribute_Domain_Values:
Attribute:
Attribute_Label: COMMENT
Attribute_Definition: Field comment
Attribute:

Attribute_Label: GPS_DATE
Attribute_Definition: Date of GPS Collection
Attribute:
Attribute_Label: DATAFILE
Attribute:
Attribute_Label: PAVED_MI
Attribute_Definition: Width of the paved area
Attribute:
Attribute_Label: PAVED_MI
Attribute_Definition: Calculated paved miles

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.037

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

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lavo_mi_pt

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lavo_mi_pt
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Mile Points
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. All attributes found in the PMS_20 table are found on the miles points.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: Not Available
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.614052
East_Bounding_Coordinate: -121.425079
North_Bounding_Coordinate: 40.568539
South_Bounding_Coordinate: 40.345573
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO
Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD Sterling
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Good
Completeness_Report: Complete for mile points
Lineage:
Source_Information:
Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Entity point
Point_and_Vector_Object_Count: 48

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

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_mi_pt
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: RIP_CYCLE
Attribute_Definition: 3, for data collection cycle 3
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: STATE
Attribute_Definition: State where route is located
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: PARK_ALPHA
Attribute_Definition: Park alpha code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: PARK_NO
Attribute_Definition: Park numeric code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: FUNCT_CLAS
Attribute_Definition: Route functional class
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: DIRECTION
Attribute_Definition: Survey lane: PRI (primary) or OPP (opposite)
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: BEG_MP

Attribute_Definition: MP at end of road interval described by database record
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: END_MP
Attribute_Definition: MP at end of road interval described by database record
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: INT_LENGTH
Attribute_Definition: Length of road interval as aggregated from data table
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: RTE_LENGTH
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: NO_LANES
Attribute_Definition: Number of lanes in route
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LANE_NO
Attribute_Definition: Data collection lane
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: WX_LANE_WI
Attribute_Definition: WiseCrax (crack detection software) analysis width
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: LANE_WIDTH
Attribute_Definition: Width of lane
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: PAVE_WIDTH
Attribute_Definition: Full pavement width
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: SHLD_WIDTH
Attribute_Definition: Left shouler width
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: SHLD_WID_1
Attribute_Definition: Right shoulder width
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: SHLD_COND_
Attribute_Definition: Left shoulder condition
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: SHLD_COND1
Attribute_Definition: Right shoulder condition
Attribute_Definition_Source: ARAN Data Collection
Attribute:

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

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

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

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

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

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

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

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

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

Attribute:
Attribute_Label: IRI_R
Attribute_Definition: Rigth wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

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

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

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

Attribute:
Attribute_Label: RUT_MAX
Attribute_Definition: Maximum rut depth of both wheelpaths
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: RUT_SD
Attribute_Definition: Rut depth standard deviation
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: RUT_LOW
Attribute_Definition:
Percent of low severity ruts (on a 0-200% scale) in both wheelpaths
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: RUT_MED
Attribute_Definition:
Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: RUT_HI
Attribute_Definition:
Percent of high severity ruts (on a 0-200% scale) in both wheelpaths
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: XFALL
Attribute_Definition: Cross fall at start of road interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GRADE
Attribute_Definition: Grade at start of road interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: AC_INDEX
Attribute_Definition: Alligator cracking index
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: AC_LOW
Attribute_Definition:
Percent of WiseCrax measured lane area with low-severity alligator cracking
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: AC_MED
Attribute_Definition:
Percent of WiseCrax measured lane area with medium-severity alligator cracking
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: AC_HI
Attribute_Definition:
Percent of WiseCrax measured lane area with high-severity alligator cracking
Attribute_Definition_Source: Contractor Post-processing

Attribute:
Attribute_Label: LC_INDEX
Attribute_Definition: Longitudinal cracking index
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: LC_LOW
Attribute_Definition:
Low-severity longitudinal cracking in lane as a percentage of road interval length
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: LC_MED
Attribute_Definition:
Medium-severity longitudinal cracking in lane as a percentage of road interval length
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: LC_HI
Attribute_Definition:
High-severity longitudinal cracking in lane as a percentage of road interval length
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: TC_INDEX
Attribute_Definition: Transverse cracking index
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: TC_LOW
Attribute_Definition:
Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured land width
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: TC_MED
Attribute_Definition:
Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured land width
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: TC_HI
Attribute_Definition:
Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured land width
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: PATCH_INDE
Attribute_Definition: Patching index
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: PATCHING
Attribute_Definition: Percent of WiseCrax measured lane area affected by patching

Attribute_Definition_Source: Contractor Post-processing

Attribute:
Attribute_Label: GPS_LAT
Attribute_Definition: Latitude coordinate
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: GPS_LON
Attribute_Definition: Longitude coordinate
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: GPS_ELEV
Attribute_Definition: Elevation
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: GPS_MODE
Attribute_Definition: GPS mode during collection
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: VIDEO
Attribute_Definition: Removable USB video hard drive number
Attribute_Definition_Source: Contractor Post-processing

Attribute:
Attribute_Label: IMAGE
Attribute_Definition: Filename of .jpg image showing road interval
Attribute_Definition_Source: Contractor Post-processing

Attribute:
Attribute_Label: SPEED
Attribute_Definition: Average ARAN speed during data collection
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: BRIDGE_FLA
Attribute_Definition: Flag indicating presence of bridge in interval
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: CONSTR_FLA
Attribute_Definition: Flag indicating construction in interval
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: LANEDEV_FL
Attribute_Definition: Flag indicating lane deviation in interval
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: DATE
Attribute_Definition: Data collection date
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: NODISTRESS
Attribute_Definition: Flag indicating absence of pavement distress
Attribute_Definition_Source: Contractor Post-processing

Attribute:
Attribute_Label: FILENAME

Attribute_Definition: Filename of raw data files
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: SECTION
Attribute_Definition: route section ID
Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection
Attribute:
Attribute_Label: FKEY
Attribute_Definition: Unique record ID
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: VISI_FROM
Attribute_Definition: Raw MP of first video frame in section
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: VISI_TO
Attribute_Definition: Raw MP of last video frame in section
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: IDKEY
Attribute_Definition: Unique record ID used by VisiData
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: MP_REF
Attribute_Definition: Range of mileage to play in VisiData
Attribute_Definition_Source: Contractor Post-processing

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.030

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia

Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

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lavo_mi

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lavo_mi
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Routes
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating provided in the PMS_mile table.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -121.614662
East_Bounding_Coordinate: -121.423897
North_Bounding_Coordinate: 40.569847
South_Bounding_Coordinate: 40.344658
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAVO
Theme_Keyword: LAVO

Access_Constraints: None
Use_Constraints: Redistribution meeds permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Good
Completeness_Report: Complete for routes
Lineage:
Source_Information:
Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 42

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000
Longitude_Resolution: 0.000000
Geographic_Coordinate_Units: Decimal degrees
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1927
Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: lavo_mi
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: FNODE_
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: TNODE_
Attribute:
Attribute_Label: LPOLY_
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RPOLY_
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LENGTH
Attribute_Definition: Numeric PCR definition
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 100
Attribute:
Attribute_Label: LAVO_MI_
Attribute_Definition: Verbal PCR definition
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POOR
Enumerated_Domain_Value_Definition: PCR value <= 60
Enumerated_Domain:

Enumerated_Domain_Value: FAIR
Enumerated_Domain_Value_Definition: PCR value 61-84
Enumerated_Domain:
Enumerated_Domain_Value: GOOD
Enumerated_Domain_Value_Definition: PCR value 85-94
Enumerated_Domain:
Enumerated_Domain_Value: EXCELLENT
Enumerated_Domain_Value_Definition: PCR value 95-100
Attribute:
Attribute_Label: LAVO_MI_ID
Attribute_Definition: Indicates whether feature has been edited for graphic purposes.
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: No edit made to feature.
Attribute:
Attribute_Label: ID
Attribute:
Attribute_Label: RTE_NO
Attribute:
Attribute_Label: BMP
Attribute:
Attribute_Label: EMP
Attribute:
Attribute_Label: PCR
Attribute:
Attribute_Label: PCR_RATE
Attribute:
Attribute_Label: RT_LENGTH
Attribute:
Attribute_Label: PCRMI
Attribute:
Attribute_Label: PCR_RATEMI
Attribute:
Attribute_Label: PCR_RATEAV
Attribute:
Attribute_Label: PCRAV
Attribute:
Attribute_Label: TSR_EDIT

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

Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050926
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
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