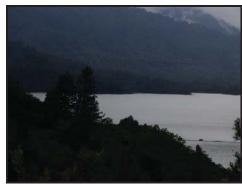


The Road Inventory of Whiskeytown-Shasta-Trinity National Recreation Area WHIS – 8750 Cycle 4







Prepared By: Federal Highway Administration Road Inventory Program Cycle 4



Whiskeytown-Shasta-Trinity National Recreation Area in California

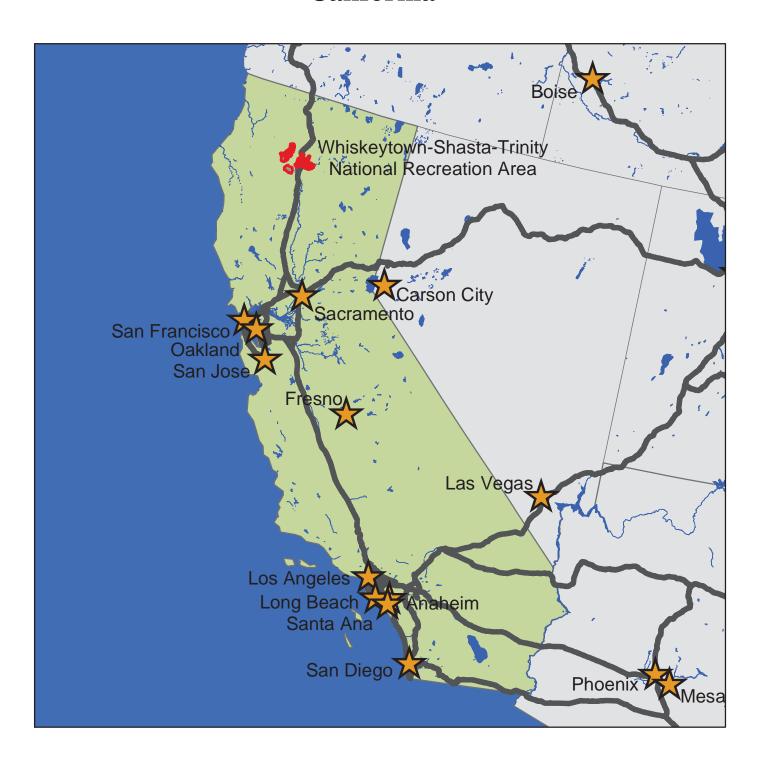




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Whiskeytown-Shasta-Trinity National Recreation Area



Section 1 Introduction

INTRODUCTION

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

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

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

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

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

In 1998, the Transportation Equity Act for the 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 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

1 - 1

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

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

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

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

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

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

The FHWA RIP Team

FHWA/EFLHD 21400 Ridgetop Circle Sterling, VA 20166 (703) 404-6371 FHWA/CFLHD 12300 West Dakota Ave. Lakewood, CO 80228 (720) 963-3560

Whiskeytown-Shasta-Trinity National Recreation Area

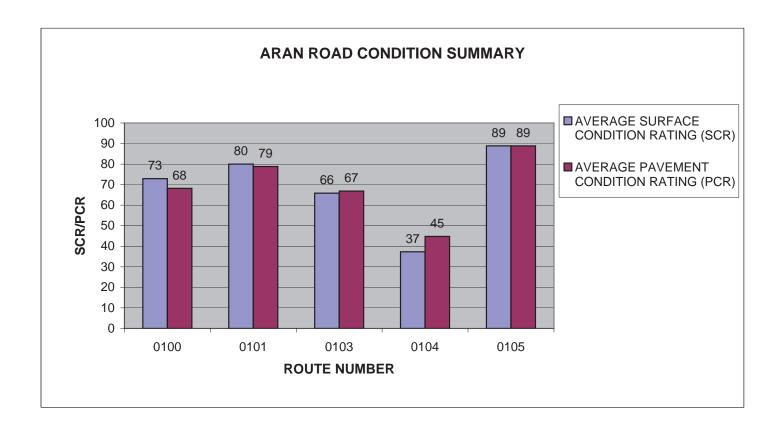


Section 2
Park Summary Information

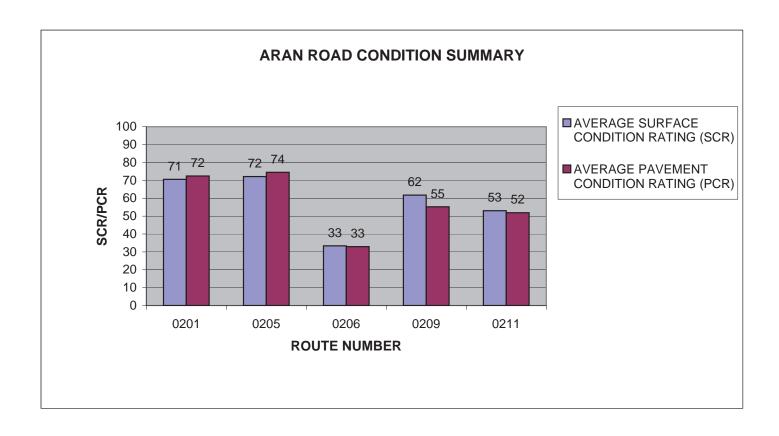
WHIS: PAVED ROUTE MILES AND PERCENTAGES BY FUNCTIONAL CLASS AND PCR

	Pavement Condition Rating (PCR)													
	Poor (<=60)	Fair (6	1-84)	Good ((85-94)	Excellent	(95-100)	TOTAL					
F.C.	MILES	%	MILES	%	MILES	%	MILES	%	MILES					
1														
2	0.44	4.43%	0.98	9.86%	0.17	1.71%	0.04	0.40%	1.63					
3	3.16	31.79%	2.80	28.17%	0.40	4.02%	0.02	0.20%	6.38					
4														
5	0.91	9.15%	0.08	0.80%	0.02	0.20%	0.01	0.10%	1.02					
6	0.81	8.15%	0.10	1.01%					0.91					
7														
8														
Totals	5.32	53.52%	3.96	39.84%	0.59	5.94%	0.07	0.70%	9.94					

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH		AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0100	BRANDY CREEK BEACH ROAD	2	0.37	ASPHALT	73	68
0101	BRANDY CREEK MARINA ROAD	2	0.46	ASPHALT	80	79
0103	OAK BOTTOM BEACH ROAD	2	0.45	ASPHALT	66	67
0104	OAK BOTTOM MARINA ROAD	2	0.28	ASPHALT	37	45
0105	TOWER HOUSE FOOTBRIDGE ACCESS ROAD	2	0.07	ASPHALT	89	89

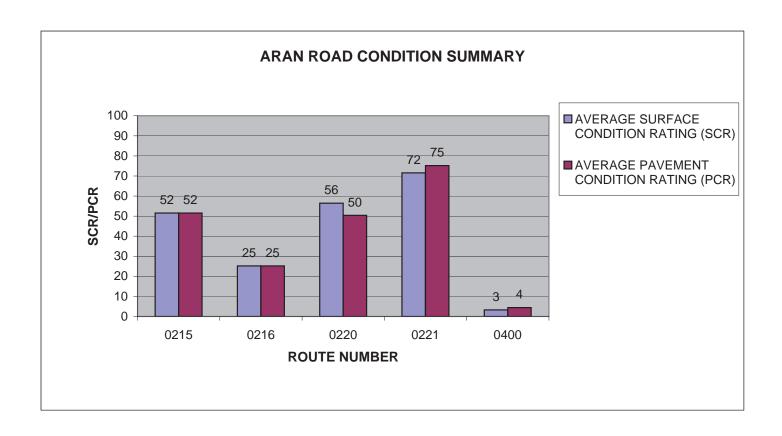


ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH		AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0201	N.E.E.D. CAMP ROAD	3	0.27	ASPHALT	71	72
0205	BRANDY CREEK MARINA R.V. CAMPGROUND	3	0.42	ASPHALT	72	74
0206	DRY CREEK CAMPGROUND	3	0.19	ASPHALT	33	33
0209	CARR POWERHOUSE ROAD	3	1.1	ASPHALT	62	55
0211	CARR LAKE ACCESS ROAD	3	0.5	ASPHALT	53	52



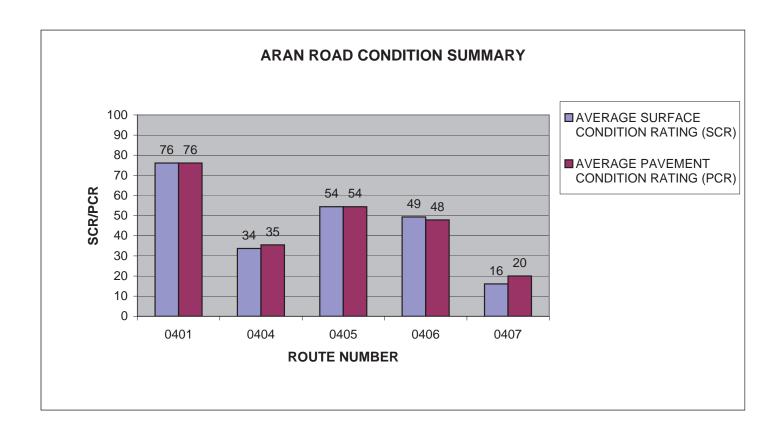
Data Collected 07/31/2007

ROUTE		FUNCT	ROUTE	SURFACE	AVERAGE SURFACE CONDITION	AVERAGE PAVEMENT CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0215	OAK BOTTOM CAMPGROUND LOOP A	3	0.51	ASPHALT	52	52
0216	OAK BOTTOM CAMPGROUND LOOP B	3	0.05	ASPHALT	25	25
0220	WHISKEY CREEK GROUP PICNIC ROAD	3	1.37	ASPHALT	56	50
0221	CRYSTAL CREEK CAMP ACCESS ROAD	3	1.97	ASPHALT	72	75
0400	HEADQUARTERS ROAD	5	0.24	ASPHALT	3	4



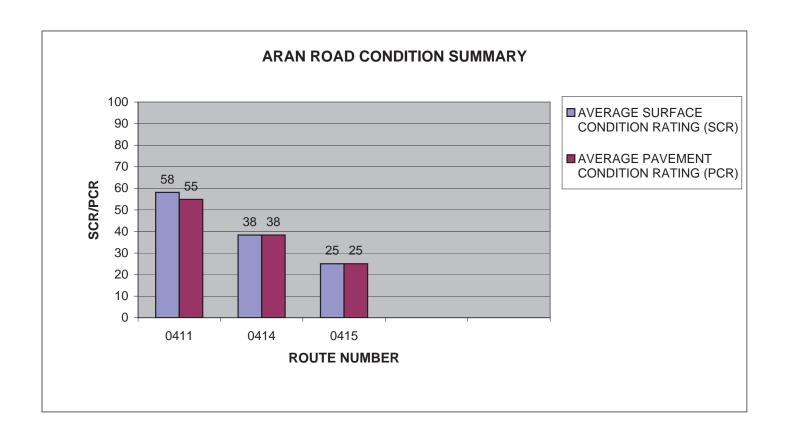
Data Collected 07/31/2007

ROUTE		FUNCT	ROUTE	SURFACE	AVERAGE SURFACE CONDITION	AVERAGE PAVEMENT CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0401	N.E.E.D. CAMP RESIDENCE ROAD	5	0.15	ASPHALT	76	76
0404	BRANDY CREEK SERVICE ROAD SOUTH	6	0.17	ASPHALT	34	35
0405	CARR POWERHOUSE SERVICE ROAD	5	0.14	ASPHALT	54	54
0406	QUARTERS 324 ROAD	6	0.28	ASPHALT	49	48
0407	GRIZZLY GULCH ROAD	5	0.38	ASPHALT	16	20



Data Collected 07/31/2007

					AVERAGE SURFACE	AVERAGE PAVEMENT
ROUTE		FUNCT	ROUTE	SURFACE	CONDITION	CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0411	BULL GULCH SERVICE ROAD	6	0.56	ASPHALT	58	55
0414	GRIZZLY GULCH WATER TANK ACCESS ROAD	5	0.06	ASPHALT	38	38
0415	GOVERNMENT BOAT LAUNCH LOOP	5	0.1	ASPHALT	25	25

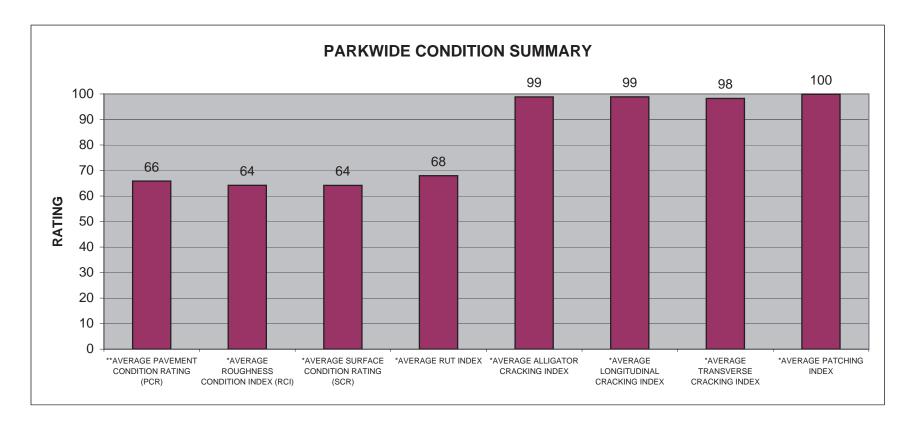


WHIS: PARKWIDE CONDITION SUMMARY

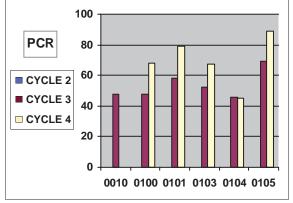
**AVERAGE	*AVERAGE	*AVERAGE		*AVERAGE	*AVERAGE	*AVERAGE	
PAVEMENT	ROUGHNESS	SURFACE		ALLIGATOR	LONGITUDINAL	TRANSVERSE	*AVERAGE
CONDITION	CONDITION	CONDITION	*AVERAGE	CRACKING	CRACKING	CRACKING	PATCHING
RATING (PCR)	INDEX (RCI)	RATING (SCR)	RUT INDEX	INDEX	INDEX	INDEX	INDEX
66	64	64	68	99	99	98	100

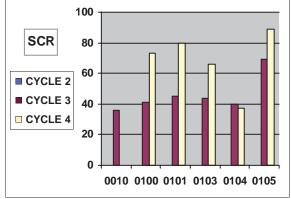
^{**} PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.

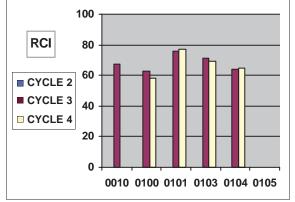
^{*} Index values are based on ARAN-driven roads only.



				PAV		NT COI	NDTION CR)	SURFACE CONDITION RATING (SCR)					ROUG	HNE:	NDITION CI)		
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE		CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0010	1.05	0.00	1.05	N/A	48	N/A	N/A	N/A	36	N/A	N/A		N/A	67	N/A	N/A	Route was collected as a Manually Rated Route in Cycle 4.
0100	0.37	0.00	0.37	N/A	48	68	+42%	N/A	41	73	+78%		N/A	63	58	-8%	
0101	0.46	0.00	0.46	N/A	58	79	+36%	N/A	45	80	+78%		N/A	76	77	+1%	
0103	0.45	0.00	0.45	N/A	52	67	+29%	N/A	44	66	+50%		N/A	71	69	-3%	
0104	0.28	0.00	0.28	N/A	46	45	-2%	N/A	40	37	-8%		N/A	64	65	+2%	
0105	0.08	0.00	0.08	N/A	69	89	+29%	N/A	69	89	+29%		N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or Cycle 4.



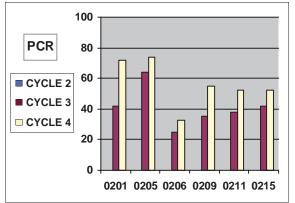


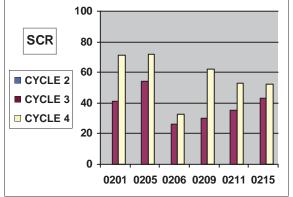


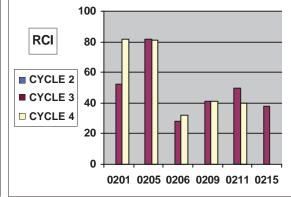
Cycle 4 Data Collected 7/29/2007 - 7/31/2007

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				PAV		NT CC ING (F	ONDTION PCR)	SUI		E CON ING (S	DITION CR)	ROUC	HNE IND	NDITION CI)		
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0201	0.28	0.00	0.28	N/A	42	72	+71%	N/A	41	71	+73%	N/A	52	82	+58%	
0205	0.42	0.00	0.42	N/A	64	74	+16%	N/A	54	72	+33%	N/A	82	81	-1%	
0206	0.19	0.00	0.19	N/A	25	33	+32%	N/A	26	33	+27%	N/A	28	32	+14%	
0209	1.10	0.00	1.10	N/A	35	55	+57%	N/A	30	62	+107%	N/A	41	41	0%	
0211	0.50	0.00	0.50	N/A	38	52	+37%	N/A	35	53	+51%	N/A	50	40	-20%	
0215	0.53	0.00	0.53	N/A	42	52	+24%	N/A	43	52	+21%	N/A	38	N/A	N/A	



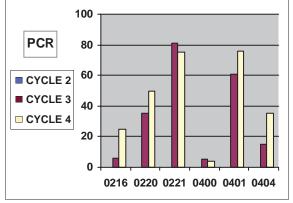


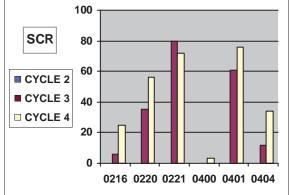


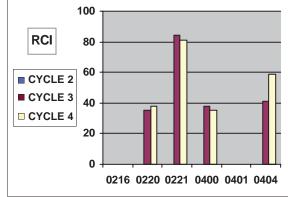
Cycle 4 Data Collected 7/29/2007 - 7/31/2007

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				PAV	VEMENT CONDTION RATING (PCR)			SURFACE CONDITION RATING (SCR)					ROUC	HNES INDE	NDITION CI)		
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE		CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0216	0.05	0.00	0.05	N/A	6	25	+317%	N/A	6	25	+317%		N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or Cycle 4.
0220	1.37	0.00	1.37	N/A	35	50	+43%	N/A	35	56	+60%		N/A	35	38	+9%	
0221	1.97	0.00	1.97	N/A	81	75	-7%	N/A	80	72	-10%		N/A	84	81	-4%	
0400	0.24	0.00	0.24	N/A	5	4	-20%	N/A	0	3	N/A		N/A	38	35	-8%	
0401	0.10	0.00	0.10	N/A	61	76	+25%	N/A	61	76	+25%		N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or Cycle 4.
0404	0.17	0.00	0.17	N/A	15	35	+133%	N/A	12	34	+183%		N/A	41	59	+44%	

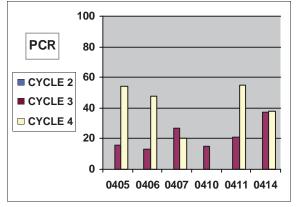


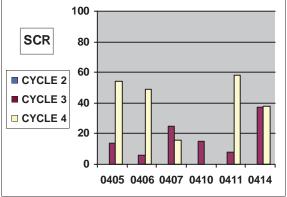


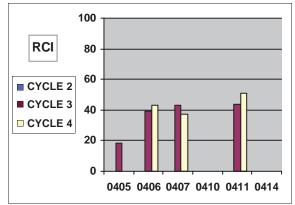


Cycle 4 Data Collected 7/29/2007 - 7/31/2007

				PAV		NT COI	NDTION CR)	SURFACE CONDITION RATING (SCR)				ROUG	HNE.			
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0405	0.14	0.00	0.14	N/A	16	54	+238%	N/A	14	54	+286%	N/A	18	N/A	N/A	No RCI collected in Cycle 4.
0406	0.28	0.00	0.28	N/A	13	48	+269%	N/A	6	49	+717%	N/A	39	43	+10%	
0407	0.38	0.00	0.38	N/A	27	20	-26%	N/A	25	16	-36%	N/A	43	37	-14%	
0410	0.43	0.00	0.43	N/A	15	N/A	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	Route was manually rated in Cycle 4. No RCI collected in Cycle 3.
0411	0.46	0.00	0.46	N/A	21	55	+162%	N/A	8	58	+625%	N/A	44	51	+16%	
0414	0.06	0.00	0.06	N/A	37	38	+3%	N/A	37	38	+3%	N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or Cycle 4.

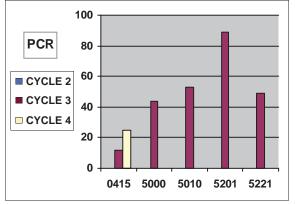


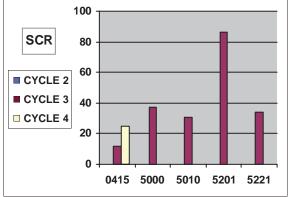


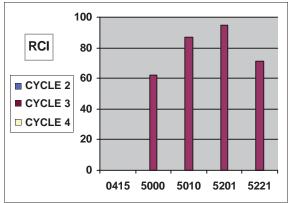


Cycle 4 Data Collected 7/29/2007 - 7/31/2007

				PAVEMENT CONDTION RATING (PCR) CA CA </th <th colspan="5">SURFACE CONDITION RATING (SCR)</th> <th>ROUC</th> <th>HNES INDI</th> <th></th>			SURFACE CONDITION RATING (SCR)					ROUC	HNES INDI				
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3			CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE		CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0415	0.11	0.00	0.11	N/A	12	25	+108%	N/A	12	25	+108%		N/A	N/A	N/A	N/A	No RCI collected in Cycle 3 or Cycle 4.
5000	2.47	0.00	2.47	N/A	44	N/A	N/A	N/A	37	N/A	N/A		N/A	62	N/A	N/A	No condition ratings collected in Cycle 4.
5010	4.72	0.00	4.72	N/A	53	N/A	N/A	N/A	31	N/A	N/A		N/A	87	N/A	N/A	No condition ratings collected in Cycle 4.
5201	1.86	0.00	1.86	N/A	89	N/A	N/A	N/A	86	N/A	N/A		N/A	95	N/A	N/A	No condition ratings collected in Cycle 4.
5221	2.06	0.00	2.06	N/A	49	N/A	N/A	N/A	34	N/A	N/A		N/A	71	N/A	N/A	No condition ratings collected in Cycle 4.







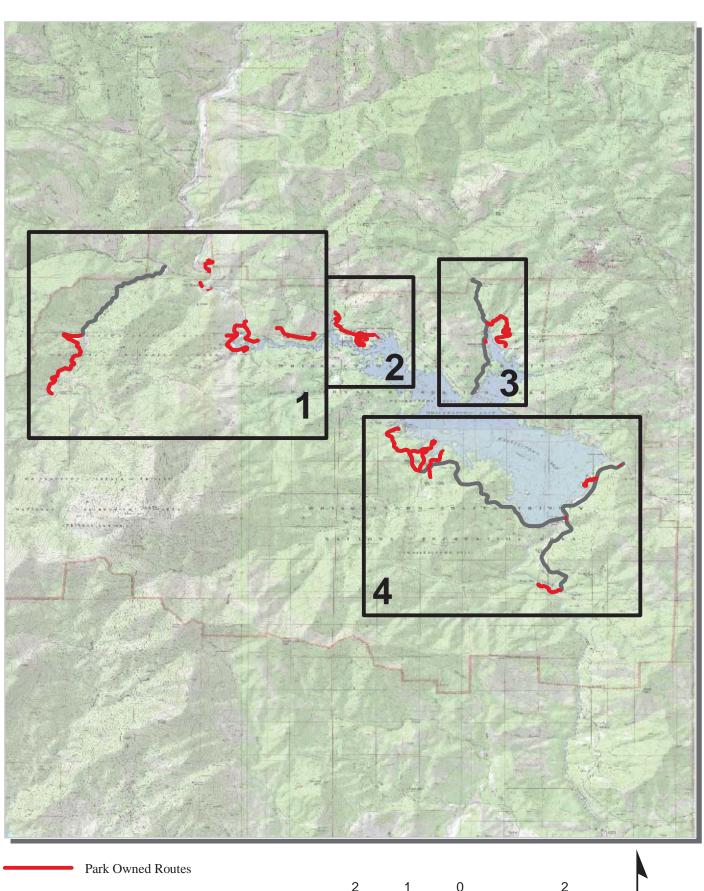
Cycle 4 Data Collected 7/29/2007 - 7/31/2007

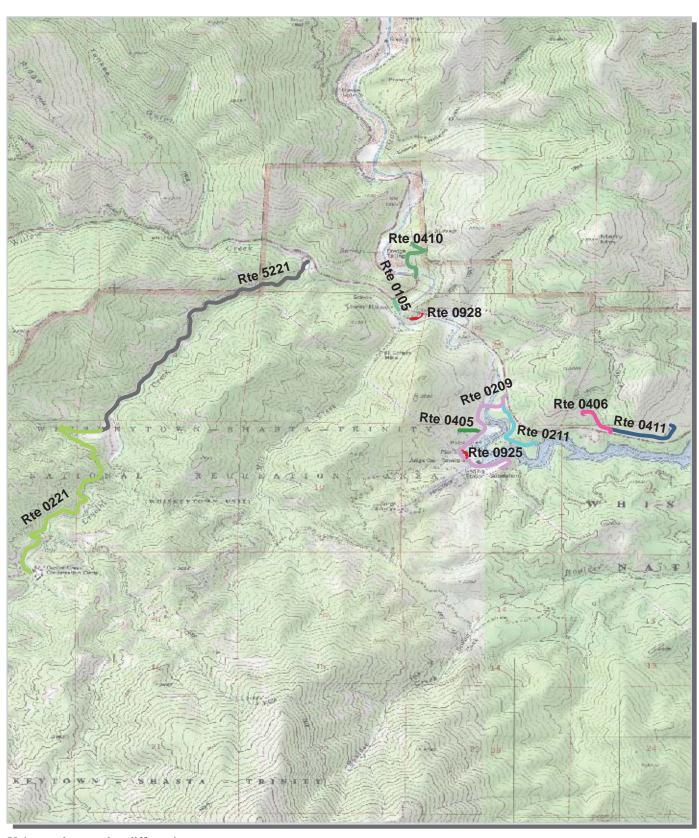
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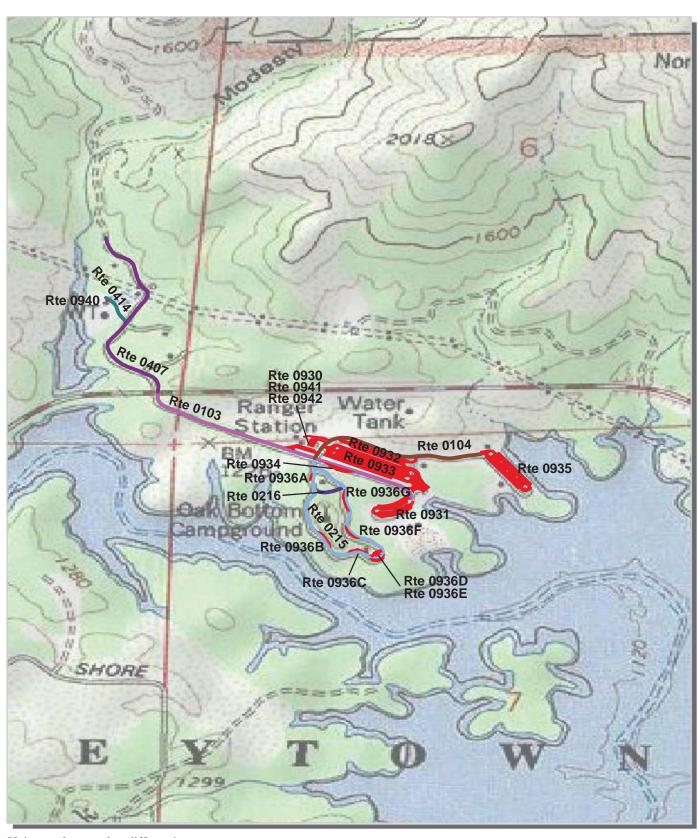
Whiskeytown-Shasta-Trinity National Recreation Area

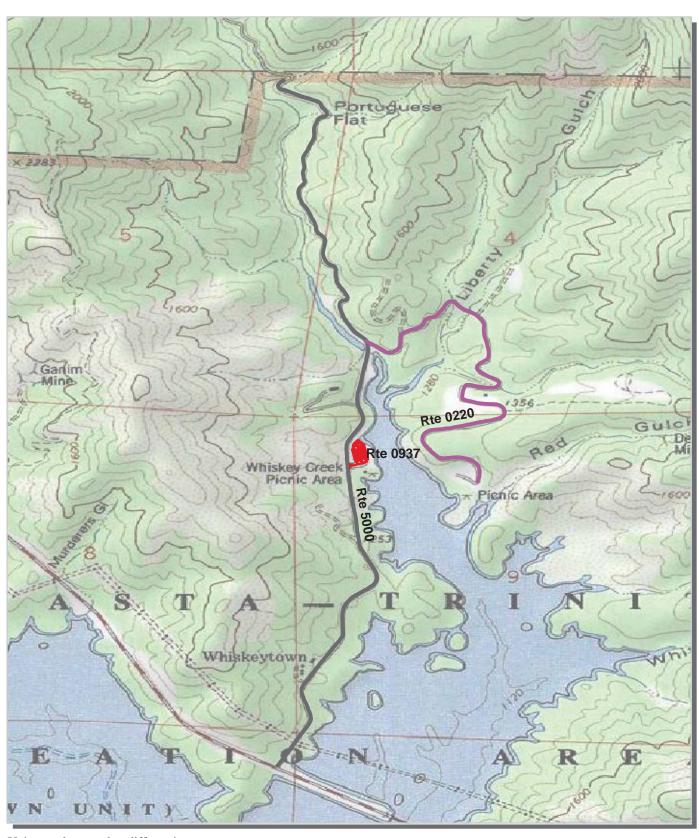


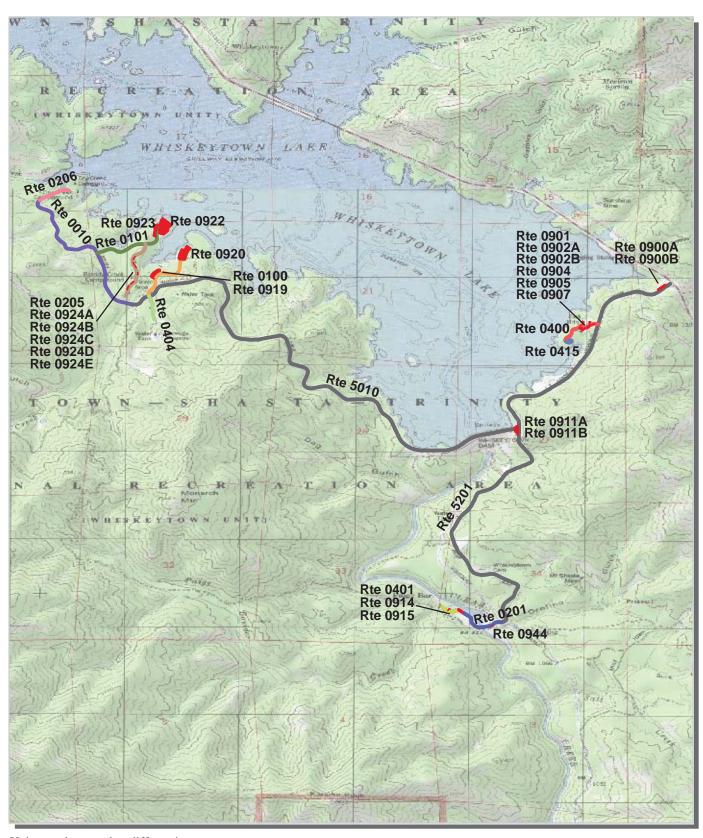
Section 3
Park Route Location / Condition
Maps

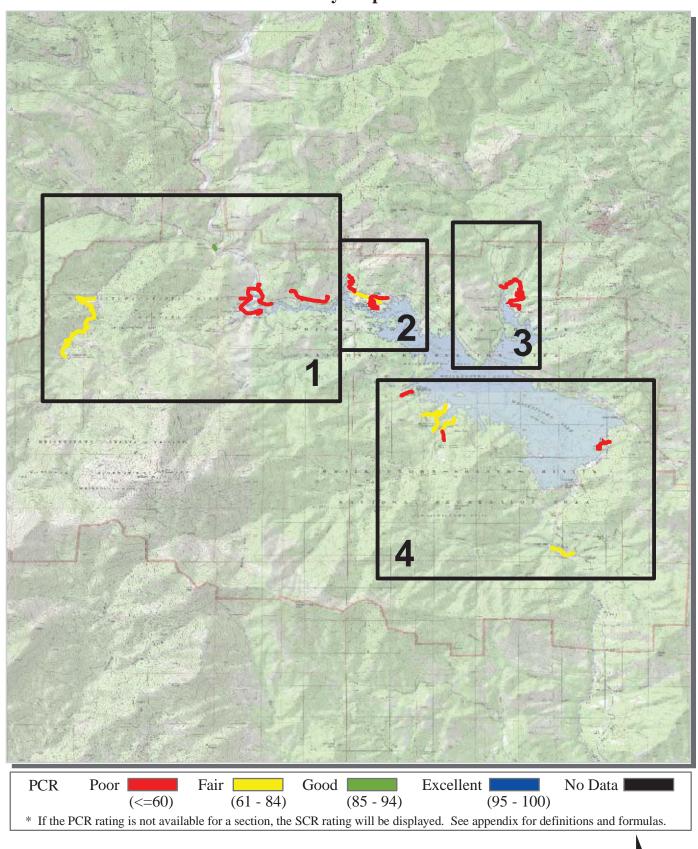


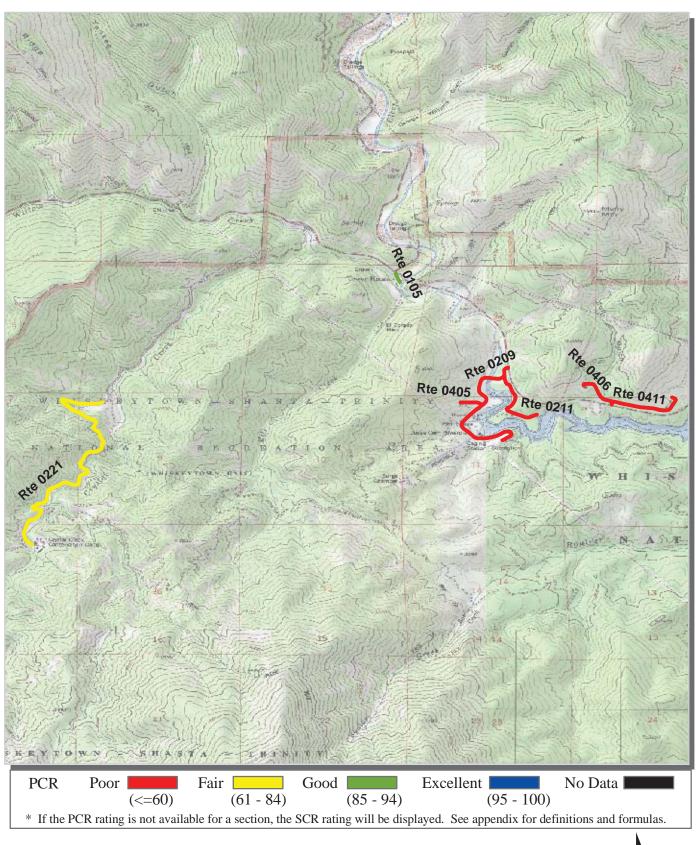


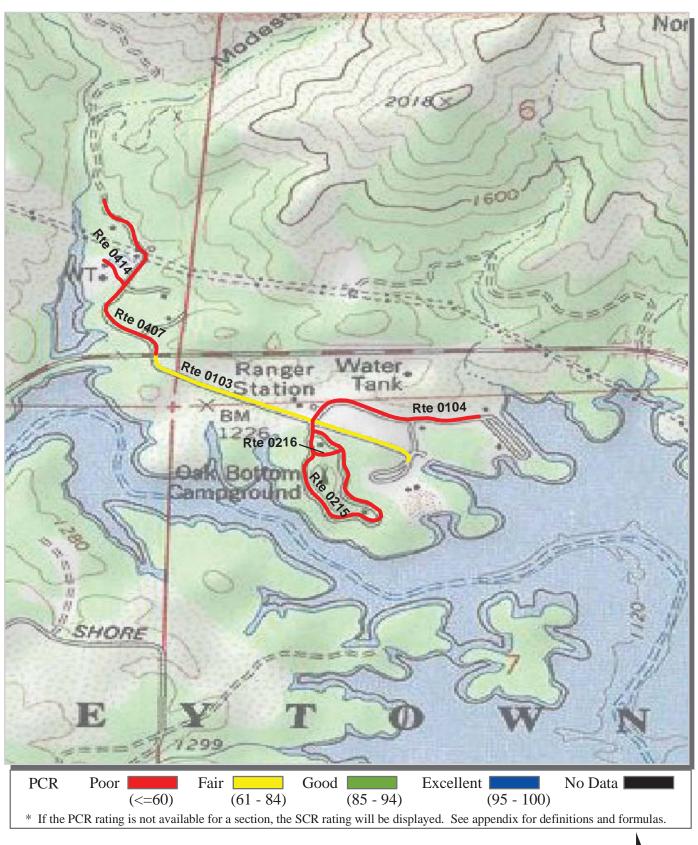


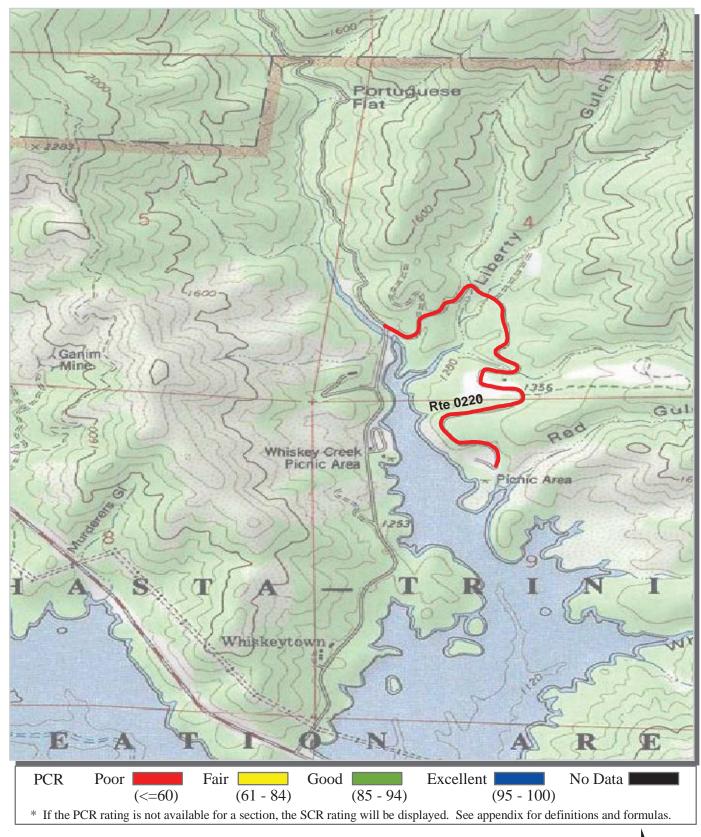


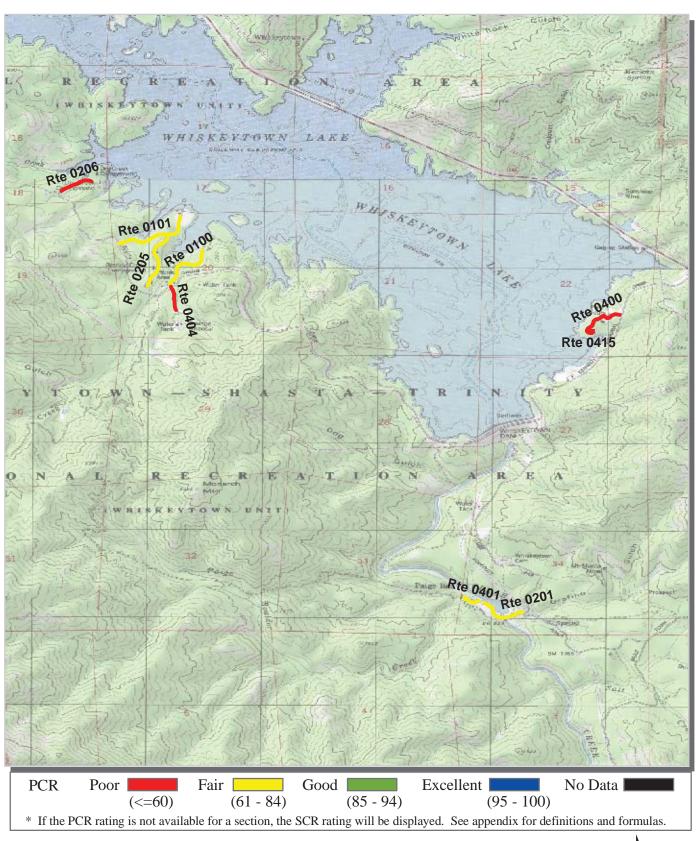












Whiskeytown-Shasta-Trinity National Recreation Area



Section 4
Park Route Inventory

Road Inventory Program 10/28/2008

(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

Green = All Unpaved Parking Areas

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Grey = Paved Routes, ARAN not Driven

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

=

= Concession Route Flag ON

WHIS

Rte. No.	FMSS No.	Concess	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0010	23349		SOUTH SHORE DRIVE EAST	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE - AFTER BRANDY CREEK BRIDGE)	TO ROUTE 0206 (DRY CREEK CAMPGROUND)		1.050	0.000	1.050	1		110,880	AS	4
0100	23352		BRANDY CREEK BEACH ROAD	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO ROUTE 0920 (BRANDY CREEK PARKING LOT B)		0.370	0.000	0.370	2		0	AS	4
0101	23353		BRANDY CREEK MARINA ROAD	FROM ROUTE 0010 (SOUTH SHORE DRIVE EAST)	TO ROUTE 0922 (BRANDY CREEK MARINA PARKING)		0.460	0.000	0.460	2		0	AS	4
0103	99468		OAK BOTTOM BEACH ROAD	FROM STATE HIGHWAY 299	TO ROUTE 0931 (OAK BOTTOM BEACH PARKING)		0.450	0.000	0.450	2		0	AS	2
0104	23356		OAK BOTTOM MARINA ROAD	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.28 (ON RIGHT)	TO ROUTE 0935 (OAK BOTTOM MARINA PARKING)		0.280	0.000	0.280	2		0	AS	2
0105	99366		TOWER HOUSE FOOTBRIDGE ACCESS ROAD	FROM STATE HIGHWAY 299	TO END		0.070	0.000	0.070	2		0	AS	1
0150	58128		MILL CREEK ROAD	FROM ROUTE 0209 (CARR POWERHOUSE ROAD)	TO END		0.000	5.000	5.000	2		0	GR	
0151	23360		SHASTA BALLY ROAD	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO END		0.000	8.150	8.150	2		0	GR	
0152	23361		SOUTH SHORE DRIVE WEST	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO ROUTE 0209 (CARR POWERHOUSE ROAD)		0.000	5.090	5.090	2		0	GR	
0153	99369		LAKESHORE ACCESS ROAD	FROM ROUTE 0209 (CARR POWERHOUSE ROAD)	TO END		0.000	0.500	0.500	2		0	GR	
0154	99370		SHASTA DIVIDE ROAD	FROM STATE HIGHWAY 299	TO POWER TOWER		0.000	1.400	1.400	2		0	GR	
0201	23365		N.E.E.D. CAMP ROAD	FROM ROUTE 0256 (PAIGE BAR ROAD)	TO ROUTE 0914 (N.E.E.D. CAMP PARKING)		0.270	0.000	0.270	3		0	AS	4
0205	23367		BRANDY CREEK MARINA R.V. CAMPGROUND	FROM ROUTE 0101 (BRANDY CREEK MARINA ROAD) AT MP 0.29 (ON RIGHT)	TO END		0.420	0.000	0.420	3		0	AS	4
0206	23369		DRY CREEK CAMPGROUND	FROM ROUTE 0010 (SOUTH SHORE DRIVE EAST)	TO ROUTE 0938 (DRY CREEK CAMPGROUND PARKING)		0.190	0.000	0.190	3		0	AS	4
0209	23371		CARR POWERHOUSE ROAD	FROM STATE HIGHWAY 299	TO ROUTE 0152 (SOUTH SHORE DRIVE WEST)		1.100	0.000	1.100	3		0	AS	1
0211	23373		CARR LAKE ACCESS ROAD	FROM ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.07 (ON LEFT)	TO END		0.500	0.000	0.500	3		0	AS	1
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Road Inventory Program 10/28/2008

(Numerical By Route #)

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	23375				Miles	Paved Miles	Route Length	Class	Lanes	Rated SQ/FT	Туре	Maps
0215 2	23376	TURNOUT LAKE SPUR	FROM ROUTE 0408 (DISPOSAL POND ROAD)	TO END	0.000	0.500	0.500	4		0	GR	
		OAK BOTTOM CAMPGROUND LOOP A	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.28 (ON LEFT)	TO END OF LOOP	0.510	0.000	0.510	3		0	AS	2
0216 9	99376	OAK BOTTOM CAMPGROUND LOOP B	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.06 (ON LEFT)	TO ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.45 (ON LEFT)	0.050	0.000	0.050	3		0	AS	2
0220 2	23379	WHISKEY CREEK GROUP PICNIC ROAD	FROM ROUTE 5000 (WHISKEY CREEK ROAD)	TO UNPAVED PARKING	1.370	0.000	1.370	3		0	AS	3
0221 8	83008	CRYSTAL CREEK CAMP ACCESS ROAD	FROM ROUTE 5221, COUNTY LINE (GATE)	TO END OF BRIDGE	1.970	0.000	1.970	3		0	AS	1
0222 9	99384	CRYSTAL CREEK CAMPGROUND ROAD	FROM ROUTE 0251 (CRYSTAL CREEK ROAD)	TO ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD)	0.000	0.200	0.200	3		0	GR	
0251 2	23382	CRYSTAL CREEK ROAD	FROM ROUTE 0221 (CRYSTAL CREEK CAMP ACCESS ROAD)	TO ROUTE 0252 (COGGINS PARK SPUR)	0.000	7.300	7.300	4		0	ОТ	
0252 2	23398	COGGINS PARK SPUR	FROM ROUTE 0251 (CRYSTAL CREEK ROAD)	TO END	0.000	0.460	0.460	4		0	ОТ	
0253 2	23400	SHASTA BALLY ROAD WEST	FROM ROUTE 0252 (COGGINS PARK SPUR)	TO END	0.000	1.000	1.000	4		0	ОТ	
0255 8	83013	BRANDY CREEK ROAD	FROM ROUTE 0151 (SHASTA BALLY ROAD)	TO END	0.000	1.500	1.500	4		0	ОТ	
0256 5	58121	PAIGE BAR ROAD	FROM ROUTE 0151 (SHASTA BALLY ROAD)	TO MULE TOWN ROAD	0.000	4.530	4.530	3		0	GR	
0258 9	99385	COUNTY LINE ROAD	FROM PARK BOUNDARY	TO ROUTE 0251 (CRYSTAL CREEK ROAD)	0.000	2.500	2.500	4		0	ОТ	
0400 8	83011	HEADQUARTERS ROAD	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO ROUTE 0415 (GOVERNMENT BOAT LAUNCH LOOP)	0.240	0.000	0.240	5		0	AS	4
0401 9	99386	N.E.E.D. CAMP RESIDENCE ROAD	FROM ROUTE 0914 (N.E.E.D. CAMP PARKING)	TO END	0.100	0.050	0.150	5		0	AS	4
0402 9	99387	N.E.E.D. CAMP SERVICE ROAD	FROM ROUTE 0201 (N.E.E.D. CAMP ROAD)	TO END	0.000	0.190	0.190	6		0	GR	
0404 8	83010	BRANDY CREEK SERVICE ROAD SOUTH	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO ROUTE 0917 (BRANDY CREEK STORAGE YARD)	0.170	0.000	0.170	6		0	AS	4
0405 9	99389	CARR POWERHOUSE SERVICE ROAD	FROM ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.45 (ON RIGHT)	TO END	0.140	0.000	0.140	5		0	AS	1

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Road Inventory Program 10/28/2008

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Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0406	37948		QUARTERS 324 ROAD	FROM STATE HIGHWAY 299	TO END		0.280	0.000	0.280	6		0	AS	1
0407	83009		GRIZZLY GULCH ROAD	FROM STATE HIGHWAY 299	TO END OF PAVEMENT		0.380	0.000	0.380	5		0	AS	2
0408	83012		DISPOSAL POND ROAD	FROM STATE HIGHWAY 299	TO END		0.000	0.680	0.680	5		0	ОТ	
0409	83014		MERRY MOUNTAIN ROAD	FROM STATE HIGHWAY 299	TO ROUTE 0410 (TOWER RESIDENCE ROAD)		0.000	0.620	0.620	5		0	ОТ	
0410	83015		TOWER RESIDENCE ROAD	FROM TRINITY MOUNTAIN ROAD	TO END AT GATE		0.420	0.000	0.420	6		42,134	AS	1
0411	99390		BULL GULCH SERVICE ROAD	FROM ROUTE 0406 (QUARTERS 324 ROAD) AT MP 0.02 (ON RIGHT)	TO END OF PAVEMENT		0.460	0.100	0.560	6		0	AS	1
0413	99391		SOUTH FORK MOUNTAIN LOOKOUT ROAD	FROM STATE HIGHWAY 299	TO END OF PAVEMENT		0.000	0.300	0.300	5		0	GR	
0414	99392		GRIZZLY GULCH WATER TANK ACCESS ROAD	FROM ROUTE 0407 (GRIZZLY GULCH ROAD) AT MP 0.18 (ON LEFT)	TO ROUTE 0940 (GRIZZLY GULCH WATER TANK ACCESS PARKING)		0.060	0.000	0.060	5		0	AS	2
0415	99393		GOVERNMENT BOAT LAUNCH LOOP	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.23 (ON LEFT)	TO ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.24 (SIDE N/A)		0.100	0.000	0.100	5		0	AS	4
0416	99398		WATER TANK ACCESS ROAD	FROM ROUTE 5201 (PAIGE BAR ROAD)	TO END		0.000	0.100	0.100	6		0	ОТ	
0417	99399		BRANDY CREEK PUMPHOUSE ROAD	FROM ROUTE 0920 (BRANDY CREEK PARKING LOT B)	TO END		0.000	0.500	0.500	6		0	GR	
0418	99400		BRANDY CREEK TREATMENT PLANT ROAD	FROM ROUTE 0404 (BRANDY CREEK SERVICE ROAD SOUTH)	TO END		0.000	0.500	0.500	6		0	GR	
0419	99401		BRANDY CREEK WATER TANK SERVICE ROAD	FROM ROUTE 0404 (BRANDY CREEK SERVICE ROAD SOUTH)	TO END		0.000	0.200	0.200	6		0	GR	
0420	99402		BRANDY CREEK PUMPHOUSE SERVICE ROAD	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO END		0.000	0.100	0.100	6		0	GR	
0421	99403		EAST BEACH ACCESS ROAD	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO END		0.000	0.100	0.100	6		0	GR	
0422	99404		ORFINO SERVICE ROAD	FROM ROUTE 5201 (PAIGE BAR ROAD)	TO POWER TOWER		0.000	1.800	1.800	6		0	GR	
0900A	23363		VISITOR CENTER PARKING A	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO ROUTE 5010 (KENNEDY MEMORIAL DRIVE)		0.000	0.000	0.000			1,507	AS	4

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Road Inventory Program 10/28/2008 (Numerical By Route #) Page 4 of 10

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Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0900B	99380		VISITOR CENTER PARKING B	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO PARKING		0.000	0.000	0.000			17,893	AS	4
0901	99405		PARK HEADQUARTERS VISITOR PARKING	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.04 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			5,170	AS	4
0902A	99406		PARK HEADQUARTERS EMPLOYEE PARKING A	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.03 (ON LEFT)	TO PARKING		0.000	0.000	0.000			6,384	AS	4
0902B	99408		PARK HEADQUARTERS EMPLOYEE PARKING B	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.06 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			2,133	AS	4
0903	99412		PARK HEADQUARTERS EMPLOYEE PARKING (UNPAVED)	FROM ROUTE 0400 (HEADQUARTERS ROAD)	TO PARKING		0.000	0.000	0.000			1,710	GR	
0904	99413		MAINTENANCE YARD	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.07 (ON LEFT)	TO ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.12 (ON LEFT)		0.000	0.000	0.000			16,393	AS	4
0905	99414		HEADQUARTERS ADMINISTRATIVE PARKING	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.10 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			3,783	AS	4
0907	99415		HEADQUARTERS GOVERNMENT CAR PARKING	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.11 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			1,132	AS	4
0908	99420		DROP BOX	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO DROP BOX		0.000	0.000	0.000			12,118	GR	
0909	99421		EAST BEACH PARKING	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO PARKING		0.000	0.000	0.000			6,600	GR	
0910	99422		KENNEDY MEMORIAL VISTAS PARKING	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO PARKING		0.000	0.000	0.000			15,099	GR	
0911A	99423		KENNEDY MONUMENT / DAM PARKING A	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO PARKING		0.000	0.000	0.000			7,935	AS	4
0911B	99426		KENNEDY MONUMENT / DAM PARKING B	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO ROUTE 5201 (PAIGE BAR ROAD)		0.000	0.000	0.000			25,549	AS	4
0912	99427		MOUNT SHASTA MINE LOOP TRAILHEAD PARKING	FROM ROUTE 5201 (PAIGE BAR ROAD)	TO PARKING		0.000	0.000	0.000			49,941	GR	

Road Inventory Program 10/28/2008 (Numerical By Route #) Page 5 of 10

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Rte.	FMSS	ess	Route Name	Route De	escription	Maint.	Paved	Un- Paved	Total Route	Func.	Rte.	Manual	Surf.	Area
No.	No.	Concess	Route Name	From	То	District	Miles	Miles	Length	Class	Lanes	Rated SQ/FT	Туре	Maps
0913	99428		N.E.E.D. CAMP OVERFLOW PARKING	FROM ROUTE 0201 (N.E.E.D. CAMP ROAD)	TO PARKING		0.000	0.000	0.000			9,650	GR	
0914	99429		N.E.E.D. CAMP PARKING	FROM ROUTE 0201 (N.E.E.D. CAMP ROAD) AT MP 0.27 (SIDE N/A)	TO ROUTE 0401 (N.E.E.D. CAMP RESIDENCE ROAD) AT MP 0.00 (SIDE N/A)		0.000	0.000	0.000			13,435	AS	4
0915	99430		N.E.E.D. CAMP CAFETERIA ACCESS PARKING	FROM ROUTE 0401 (N.E.E.D. CAMP RESIDENCE ROAD) AT MP 0.06 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			2,524	AS	4
0916	99431		DAVIS GULCH TRAILHEAD PARKING	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO PARKING		0.000	0.000	0.000			5,115	GR	
0917	99450		BRANDY CREEK STORAGE YARD	FROM ROUTE 0404 (BRANDY CREEK SERVICE ROAD SOUTH) AT MP 0.17 (SIDE N/A)	TO STORAGE YARD		0.000	0.000	0.000			10,050	GR	
0918	99451		BRANDY CREEK BEACH RESTROOM PARKING	FROM ROUTE 0100 (BRANDY CREEK BEACH ROAD) AT MP 0.04 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			11,870	GR	
0919	99452		BRANDY CREEK PARKING LOT A	FROM ROUTE 0100 (BRANDY CREEK BEACH ROAD) AT MP 0.12 (ON LEFT)	TO PARKING		0.000	0.000	0.000			45,119	AS	4
0920	99453		BRANDY CREEK PARKING LOT B	FROM ROUTE 0100 (BRANDY CREEK BEACH ROAD) AT MP 0.37 (SIDE N/A)	TO PARKING		0.000	0.000	0.000			113,012	AS	4
0921	99454		BRANDY CREEK FALLS TRAILHEAD PARKING	FROM ROUTE 0151 (SHASTA BALLY ROAD)	TO PARKING		0.000	0.000	0.000			3,445	GR	
0922	99455		BRANDY CREEK MARINA PARKING	FROM ROUTE 0101 (BRANDY CREEK MARINA ROAD) AT MP 0.43 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			181,074	AS	4
0923	99456		DRY STORAGE AREA	FROM ROUTE 0922 (BRANDY CREEK MARINA PARKING)	TO ROUTE 0101 (BRANDY CREEK MARINA ROAD) AT MP 0.38 (ON LEFT)		0.000	0.000	0.000			22,285	AS	4
0924A	99457		BRANDY CREEK R.V. PARKING A	FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.13 (ON LEFT)	TO PARKING		0.000	0.000	0.000			3,340	AS	4
0924B	99458		BRANDY CREEK R.V. PARKING B	FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.18 (ON LEFT)	TO PARKING		0.000	0.000	0.000			5,635	AS	4

Road Inventory Program 10/28/2008 (Numerical By Route #) Page 6 of 10

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WHIS

WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0924C	99459		BRANDY CREEK R.V. PARKING C	FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.25 (ON LEFT)	TO PARKING		0.000	0.000	0.000			2,772	AS	4
0924D	99460		BRANDY CREEK R.V. PARKING D	FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.32 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			4,220	AS	4
0924E	99461		BRANDY CREEK R.V. PARKING E	FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.36 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			4,576	AS	4
0925	99462		CARR PICNIC AREA PARKING	FROM ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.63 (ON LEFT)	TO ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.71 (ON LEFT)		0.000	0.000	0.000			21,227	AS	1
0926	99463		CARR STORAGE YARD	FROM ROUTE 0405 (CARR POWERHOUSE SERVICE ROAD)	TO STORAGE YARD		0.000	0.000	0.000			16,186	GR	
0927	99464		ROPE SWING PARKING	FROM STATE HIGHWAY 299	TO PARKING		0.000	0.000	0.000			5,265	GR	
0928	99465		TOWER HOUSE HISTORIC DISTRICT PARKING	FROM STATE HIGHWAY 299	TO PARKING		0.000	0.000	0.000			30,397	AS	1
0929	99466		OAK BOTTOM WATER DITCH TRAIL PARKING	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD)	TO PARKING		0.000	0.000	0.000			7,172	GR	
0930	99467		OAK BOTTOM CAMPGROUND STORE PARKING	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.23 (ON LEFT)	TO ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.01 (ON LEFT)		0.000	0.000	0.000			9,382	AS	2
0931	23354		OAK BOTTOM BEACH PARKING	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.45 (SIDE N/A)	TO PARKING		0.000	0.000	0.000			36,344	AS	2
0932	99469		OAK BOTTOM R.V. CAMP PARKING	FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.05 (ON RIGHT)	TO ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.18 (ON RIGHT)		0.000	0.000	0.000			38,853	AS	2
0933	99470		OAK BOTTOM LAUNCH RAMP	FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.02 (ON RIGHT)	TO ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.44 (ON LEFT)		0.000	0.000	0.000			129,737	AS	2
0934	99471		OAK BOTTOM R.V. DUMP STATION PARKING	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.30 (ON RIGHT)	TO ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.34 (ON RIGHT)		0.000	0.000	0.000			6,605	AS	2

Road Inventory Program 10/28/2008 (Numerical By Route #) Page 7 of 10

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WHIS

WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

Rte. No.	FMSS No.	Concess Route	Route Name	Route Des From	cription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0935	99472		OAK BOTTOM MARINA PARKING	FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.28 (SIDE N/A)	TO PARKING		0.000	0.000	0.000			57,040	AS	2
0936A	99474		OAK BOTTOM CAMPGROUND PARKING A	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.04 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			1,149	AS	2
0936B	99473		OAK BOTTOM CAMPGROUND PARKING B	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.17 (ON LEFT)	TO PARKING		0.000	0.000	0.000			2,357	AS	2
0936C	99475		OAK BOTTOM CAMPGROUND PARKING C	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.24 (ON LEFT)	TO PARKING		0.000	0.000	0.000			2,077	AS	2
0936D	99476		OAK BOTTOM CAMPGROUND PARKING D	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.28 (ON RIGHT)	TO PARKING		0.000	0.000	0.000			3,031	AS	2
0936E	99477		OAK BOTTOM CAMPGROUND PARKING E	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.26 (ON LEFT)	TO ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.29 (ON LEFT)		0.000	0.000	0.000			3,748	AS	2
0936F	99478		OAK BOTTOM CAMPGROUND PARKING F	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.35 (ON LEFT)	TO PARKING		0.000	0.000	0.000			2,820	AS	2
0936G	99479		OAK BOTTOM CAMPGROUND PARKING G	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.42 (ON LEFT)	TO PARKING		0.000	0.000	0.000			3,092	AS	2
0937	99480		WHISKEY CREEK BOAT LAUNCH PARKING	FROM ROUTE 5000 (WHISKEY CREEK ROAD)	TO PARKING		0.000	0.000	0.000			66,380	AS	3
0938	99481		DRY CREEK CAMPGROUND PARKING	FROM ROUTE 0206 (DRY CREEK CAMPGROUND) AT MP 0.19 (SIDE N/A)	TO PARKING		0.000	0.000	0.000			22,480	GR	
0940	99482		GRIZZLY GULCH WATER TANK ACCESS PARKING	FROM ROUTE 0414 (GRIZZLY GULCH WATER TANK ACCESS ROAD) AT MP 0.06 (SIDE N/A)	TO PARKING		0.000	0.000	0.000			379	AS	2

Road Inventory Program 10/28/2008 (Numerical By Route #) Page 8 of 10

Shading Color Key: Red text denotes approx. mileage White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

= Concession Route Flag ON

WHIS

WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

Rte. No.	FMSS No.	Concess	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0941	99483		OAK BOTTOM CAMPGROUND STORE EMPLOYEE PARKING	FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.03 (ON LEFT)	TO PARKING		0.000	0.000	0.000			5,749	AS	2
0942	99484		RESIDENCE 302 AND 303 PARKING	FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.04 (ON LEFT)	TO PARKING		0.000	0.000	0.000			3,865	AS	2
0943	99485		MILL CREEK TRAILHEAD PARKING	FROM ROUTE 0221 (CRYSTAL CREEK CAMP ACCESS ROAD)	TO PARKING		0.000	0.000	0.000			276	GR	
0944			GUARDIAN ROCK TRAILHEAD PKG	FROM ROUTE 0201 (N.E.E.D. CAMP ROAD) AT MP 0.06 (ON LEFT)	TO PARKING		0.000	0.000	0.000			0	AS	4
0945			WHISKEY CREEK GROUP PICNIC AREA PKG.	FROM ROUTE 0220 (WHISKEY CREEK GROUP PICNIC ROAD) AT MP 1.37 (SIDE N/A)	TO PARKING		0.000	0.000	0.000			0	GR	
5000	99394		WHISKEY CREEK ROAD	FROM STATE HIGHWAY 299	TO PARK BOUNDARY		2.480	0.000	2.480	2		0	AS	3
5010	99395		KENNEDY MEMORIAL DRIVE	FROM STATE HIGHWAY 299	TO ROUTE 0010 (SOUTH SHORE DRIVE EAST)		4.720	0.000	4.720	8		0	AS	4
5201	99396		PAIGE BAR ROAD	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)	TO ROUTE 0201 (N.E.E.D. CAMP ROAD)		1.860	0.000	1.860	8		0	AS	4
5221	99397		CRYSTAL CREEK ROAD	FROM STATE HIGHWAY 299	TO ROUTE 0221 (CRYSTAL CREEK CAMP ACCESS ROAD) AT MP 0.00 (SIDE N/A)		2.070	0.000	2.070	3		0	AS	1

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

Road Inventory Program 10/28/2008 (Numerical By Route #) Page 9 of 10

Shading Color Key: Red text denotes approx. mileage White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

= Concession Route Flag ON

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

SUMMA	SUMMARY TOTALS FOR WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA									
ROUTE TOTALS	<u>s</u>	<u> </u>	LANE MIL	E TOTAL	<u>s</u>	CONCESSION TOTALS				
ARAN Driven Route Miles	9.940	ARAI	ARAN Driven Lane Miles		17.661		Concessi		e Miles	0.000
All Paved Route Miles	11.410	Paved	Parking Lane	Miles	15.674		Concession	n Unpaved Route Miles		0.000
All Unpaved Route Miles	43.370	Pav	ved MRR Lane	Miles	2.634	Concession Paved Parking Area SQFT			a SQFT	0
TOTAL PARK ROUTE MILES	54.780	TOTAL	PAVED LANE N	IILES	35.969	Con	cession Unpav	ed Parking Are	a SQFT	0
All Manually Rated Roads (SQFT)	153,014		Concession Paved MRR SQFT						R SQFT	0
PARKING AREA TO	TALS	WEIGHTED AVERAGE PARK VALUES								
All Paved Parking (SQFT)	All Paved Parking (SQFT) 910,105			RCI (Rating)	RUT (Index)	AC (Index)	LC (Index)	TC (Index)	PATCH (Index)	PCR (Concession)
All Unpaved Parking (SQFT)	176,977	(Rating) 65.85	(Rating) 64.17	64.21	67.95	98.83	98.87	98.23	99.86	
TOTAL ALL PARKING (SQFT)	1,087,082									N/A

Road Inventory Program 10/28/2008 (Numerical By Route #) Page 10 of 10

Shading Color Key: Red text denotes approx. mileage

Class 8

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

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= Concession Route Flag ON

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

General Park Road Functional Classification Table

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

- Class 2 Connector Park Road (Public Roads) Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.
- Class 3 Special Purpose Park Road (Public Roads) Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.
- Class 4 Primitive Park Roads (Public Roads) Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.
 Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.
- Class 5 Administrative Access Road (Administrative Roads) All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.
- Class 6 Restricted Road (Administrative Roads) All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499.

 Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.
- Class 7 Urban Parkway (Urban Parkways and City Streets) These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.
 - City Streets (Urban Parkways and City Streets) City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

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

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

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

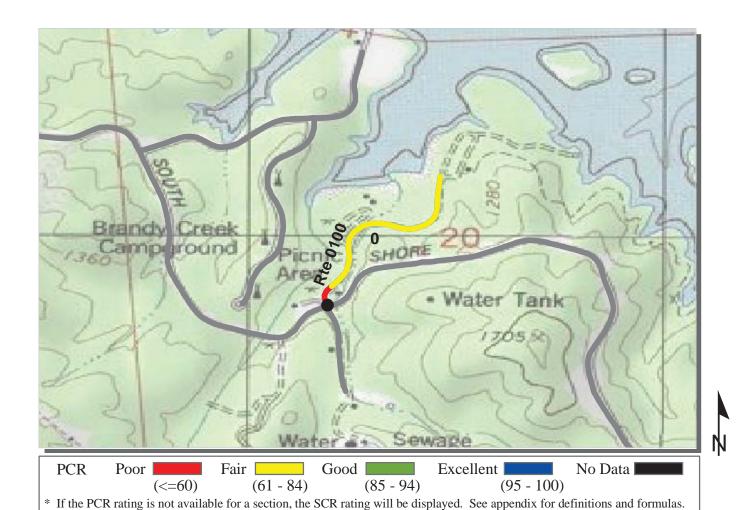
Surface Type Abbreviations:

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

Whiskeytown-Shasta-Trinity National Recreation Area



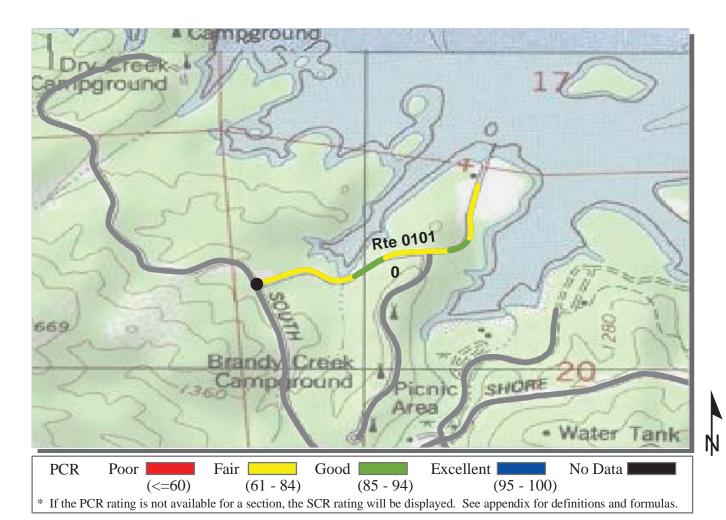
Section 5
Paved Route Condition Rating Sheets
(CRS)



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

				delected.	115012001
ROUTE: 0100 BRANDY CREEK I	BEACH ROA	AD	TOTAL	LENGTH:	0.37 Miles
Section Number	0			·	
Section Length (mi)	0.37				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traft		t.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	10				
Shoulder Width Right (ft)**	3				
Shoulder Width Left (ft)**	4				
Roadway Condition Information					
SCR (Surface Condition Rating)	73				
PCR (Pavement Condition Rating)	68				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	93				
Tranverse Cracking Index	91				
Patching Index	100				
Rutting Index	89				
Roughness Condition Index (RCI)	58				

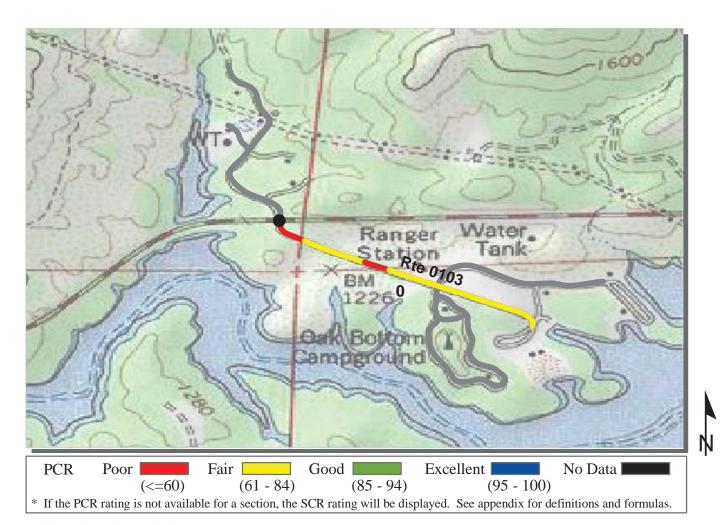
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

				LLLCTLD.	115012001
ROUTE: 0101 BRANDY CREEK	MARINA RO	DAD	TOTAL	LENGTH:	0.46 Miles
Section Number	0				
Section Length (mi)	0.46				
Traffic AADT		•	www.efl.fhwa.do	t.gov	
SADT		OGRAMS / NPS I parks have traff			
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	14				
Shoulder Width Right (ft)**	0				
Shoulder Width Left (ft)**	0				
Roadway Condition Information					
SCR (Surface Condition Rating)	80				
PCR (Pavement Condition Rating)	79				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	96				
Patching Index	100				
Rutting Index	86				
Roughness Condition Index (RCI)	77				

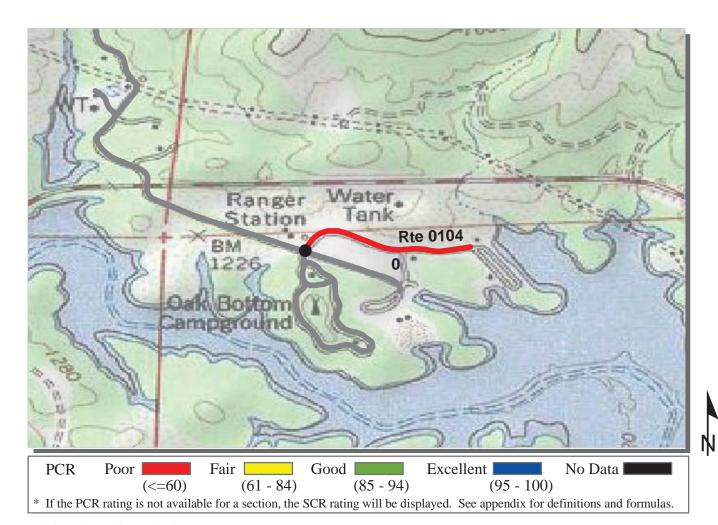
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0103 OAK BOTTOM BE	ACH ROAD)	TOTAL	LENGTH:	0.45 Miles
Section Number	0				
Section Length (mi)	0.45				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traf		ot.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	37				
Lane Width (ft)	13				
Shoulder Width Right (ft)**	6				
Shoulder Width Left (ft)**	8				
Roadway Condition Information					
SCR (Surface Condition Rating)	66				
PCR (Pavement Condition Rating)	67				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	96				
Patching Index	100				
Rutting Index	73				
Roughness Condition Index (RCI)	69				

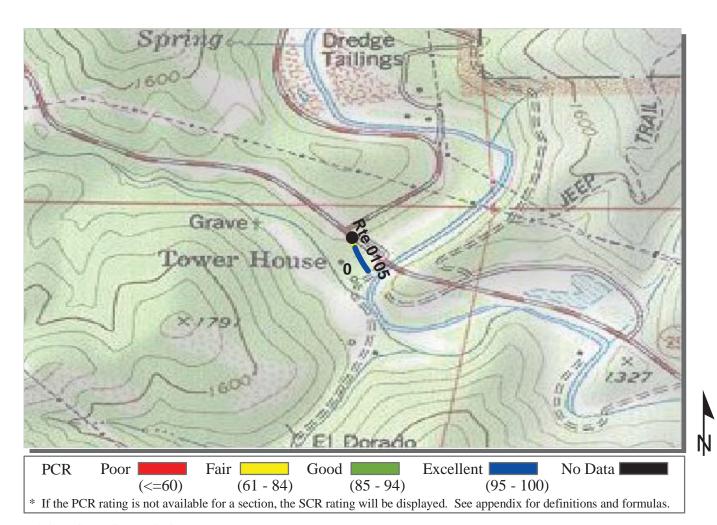
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WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

			00.		110012001
ROUTE: 0104 OAK BOTTOM MA	ARINA ROA	D	TOTAL	LENGTH:	0.28 Miles
Section Number	0				
Section Length (mi)	0.28				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traf		t.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	11				
Shoulder Width Right (ft)**	0				
Shoulder Width Left (ft)**	4				
Roadway Condition Information					
SCR (Surface Condition Rating)	37				
PCR (Pavement Condition Rating)	45				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	93				
Tranverse Cracking Index	91				
Patching Index	100				
Rutting Index	53				
Roughness Condition Index (RCI)	65				

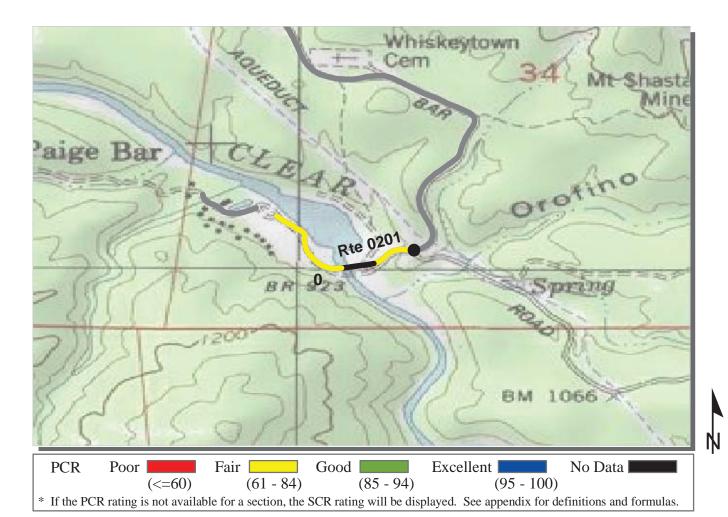
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

Section Number	0			LENGTH:	0.07 Miles
Section Length (mi)	0.07				
Traffic AADT SADT ADT Date	Click on PRO	nay be found at v OGRAMS / NPS I parks have traff	Traffic Data	t.gov	
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width Right (ft)**	6				
Shoulder Width Left (ft)**	5				
Roadway Condition Information					
SCR (Surface Condition Rating)	89				
PCR (Pavement Condition Rating)	89				
Distress Index Values					
Alligator Cracking Index	99				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	91				
Roughness Condition Index (RCI)	NC				

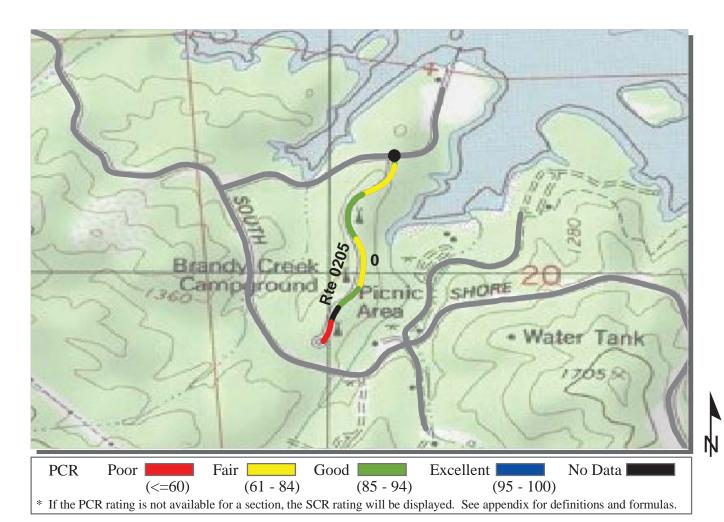
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0201 N.E.E.D. CAMP RO)AD			LENGTH:	0.27 Miles
Section Number	0		IOIAL	LENGIII.	U.21 WHICS
Section Length (mi)	0.27				
Traffic		•	•		
AADT		may be found at		ot.gov	
SADT		OGRAMS / NPS ll parks have traf			
ADT Date	(11010. 1101 a.	n parks have trai	ric data)		
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	10				
Shoulder Width Right (ft)**	4				
Shoulder Width Left (ft)**	1				
Roadway Condition Information					
SCR (Surface Condition Rating)	71				
PCR (Pavement Condition Rating)	73				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	72				
Roughness Condition Index (RCI)	82				

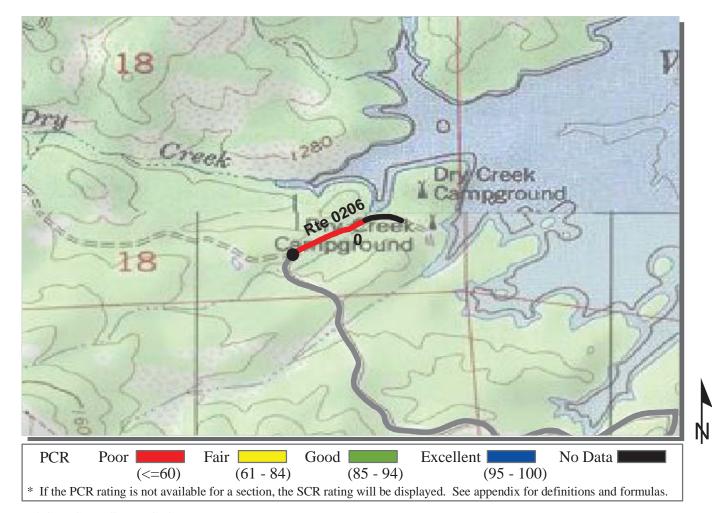
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0205 BRANDY CREEK MA	RINA R.V. C	AMPGROUN	D TOTAL	LENGTH:	0.42 Miles
Section Number	0				
Section Length (mi)	0.42				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traff	Traffic Data	ot.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	12				
Shoulder Width Right (ft)**	2				
Shoulder Width Left (ft)**	2				
Roadway Condition Information					
SCR (Surface Condition Rating)	72				
PCR (Pavement Condition Rating)	75				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	97				
Patching Index	100				
Rutting Index	77				
Roughness Condition Index (RCI)	81				

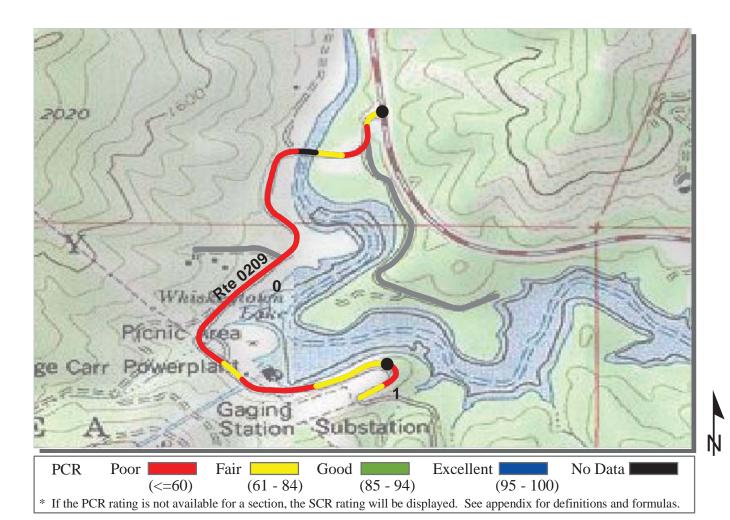
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WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

DOUTE, 0206 DDV CDEEK CAM	DCDOLIND			I ENCTI.	0.10 M:log
ROUTE: 0206 DRY CREEK CAM		1	TOTAL	LENGTH:	0.19 Miles
Section Number	0				
Section Length (mi)	0.19				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	13				
Shoulder Width Right (ft)**	3				
Shoulder Width Left (ft)**	4				
Roadway Condition Information					
SCR (Surface Condition Rating)	31				
PCR (Pavement Condition Rating)	31				
Distress Index Values					
Alligator Cracking Index	76				
Longitudinal Cracking Index	95				
Tranverse Cracking Index	97				
Patching Index	98				
Rutting Index	55				
Roughness Condition Index (RCI)	31				

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

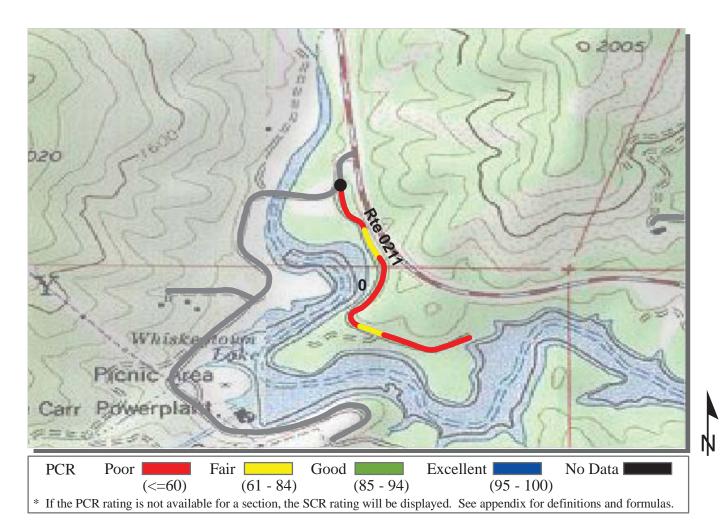


WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

COLLECTED: 7/29/2007

			CO	LLECTED:	7/29/2007
ROUTE: 0209 CARR POWERHO	USE ROAD		TOTAL	LENGTH:	1.10 Miles
Section Number	0	1			
Section Length (mi)	1.00	0.10			
Traffic					
AADT		may be found at v OGRAMS / NPS		ot.gov	
SADT		all parks have traf			
ADT Date	(14010. 1401	an parks have tran	ric data)		
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	23	14			
Lane Width (ft)	10	7			
Shoulder Width Right (ft)**	4	4			
Shoulder Width Left (ft)**	5	5			
Roadway Condition Information					
SCR (Surface Condition Rating)	62	57			
PCR (Pavement Condition Rating)	55	56			
Distress Index Values					
Alligator Cracking Index	100	100			
Longitudinal Cracking Index	98	100			
Tranverse Cracking Index	99	100			
Patching Index	100	100			
Rutting Index	64	57			
Roughness Condition Index (RCI)	40	42			

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

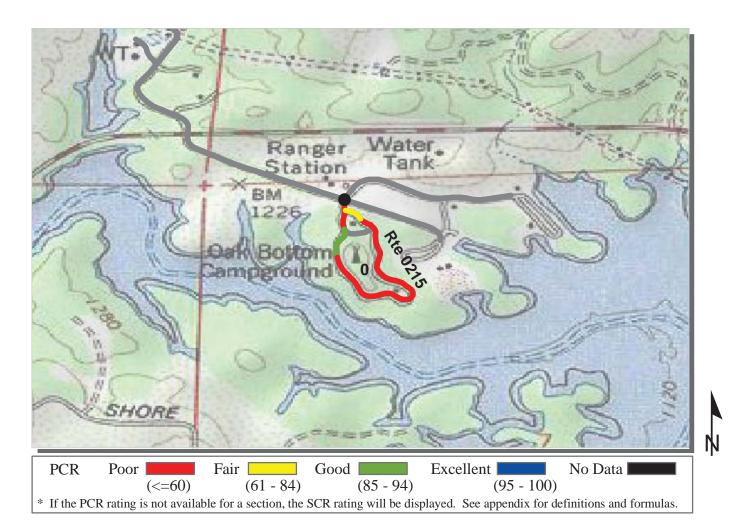


WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

COLLECTED: 7/29/2007

			00.		.,,	
ROUTE: 0211 CARR LAKE ACC	ESS ROAD		TOTAL	LENGTH:	0.50 Miles	
Section Number	0					
Section Length (mi)	0.50					
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	20					
Lane Width (ft)	10					
Shoulder Width Right (ft)**	2					
Shoulder Width Left (ft)**	0					
Roadway Condition Information						
SCR (Surface Condition Rating)	53					
PCR (Pavement Condition Rating)	52					
Distress Index Values						
Alligator Cracking Index	100					
Longitudinal Cracking Index	100					
Tranverse Cracking Index	100					
Patching Index	100					
Rutting Index	54					
Roughness Condition Index (RCI)	40					

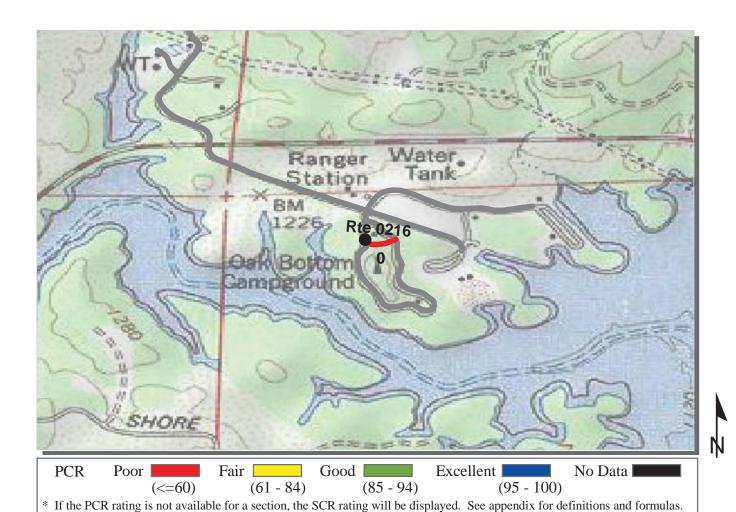
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0215 OAK BOTTOM CA	MPGROUN	D LOOP A	TOTAL	LENGTH:	0.51 Miles	
Section Number	0					
Section Length (mi)	0.51					
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	1					
Paved Width (ft)	18					
Lane Width (ft)	18					
Shoulder Width Right (ft)**	6					
Shoulder Width Left (ft)**	0					
Roadway Condition Information						
SCR (Surface Condition Rating)	52					
PCR (Pavement Condition Rating)	52					
Distress Index Values						
Alligator Cracking Index	94					
Longitudinal Cracking Index	93					
Tranverse Cracking Index	93					
Patching Index	100					
Rutting Index	69					
Roughness Condition Index (RCI)	NC					

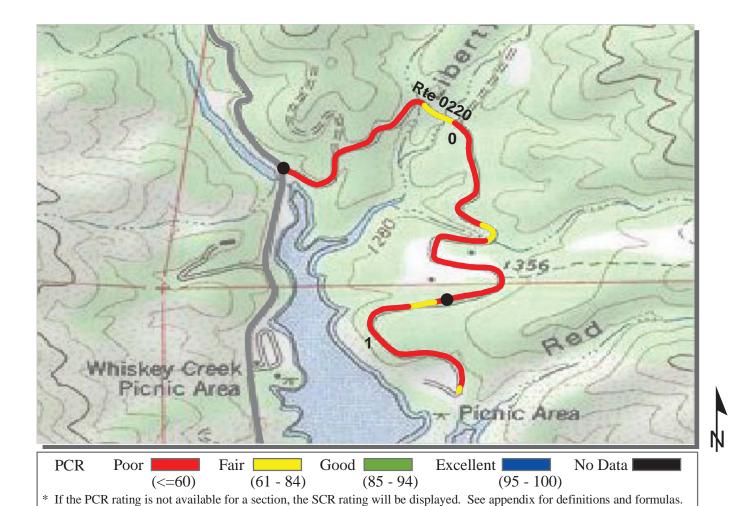
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0216 OAK BOTTOM CA	MPGROUN	D LOOP B	TOTAL	LENGTH:	0.05 Miles		
Section Number	0						
Section Length (mi)	0.05						
Traffic AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data						
SADT ADT Date		parks have traff					
Cross Section Information							
Number of Lanes	1						
Paved Width (ft)	8						
Lane Width (ft)	8						
Shoulder Width Right (ft)**	3						
Shoulder Width Left (ft)**	6						
Roadway Condition Information							
SCR (Surface Condition Rating)	27						
PCR (Pavement Condition Rating)	27						
Distress Index Values							
Alligator Cracking Index	97						
Longitudinal Cracking Index	95						
Tranverse Cracking Index	95						
Patching Index	100						
Rutting Index	40						
Roughness Condition Index (RCI)	NC						

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

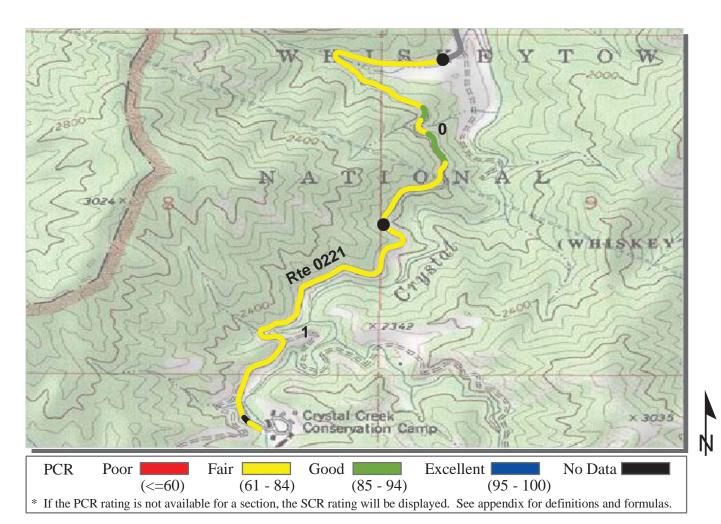


WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

COLLECTED: 7/29/2007

ROUTE: 0220 WHISKEY CREEK	GROUP PI	CNIC ROAD	TOTAL	LENGTH:	1.37 Miles	
Section Number	0	1				
Section Length (mi)	1.00	0.37				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	2				
Paved Width (ft)	21	19				
Lane Width (ft)	11	9				
Shoulder Width Right (ft)**	0	2				
Shoulder Width Left (ft)**	2	4				
Roadway Condition Information						
SCR (Surface Condition Rating)	57	56				
PCR (Pavement Condition Rating)	50	51				
Distress Index Values						
Alligator Cracking Index	100	100				
Longitudinal Cracking Index	98	100				
Tranverse Cracking Index	97	100				
Patching Index	100	100				
Rutting Index	62	57				
Roughness Condition Index (RCI)	36	43				

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

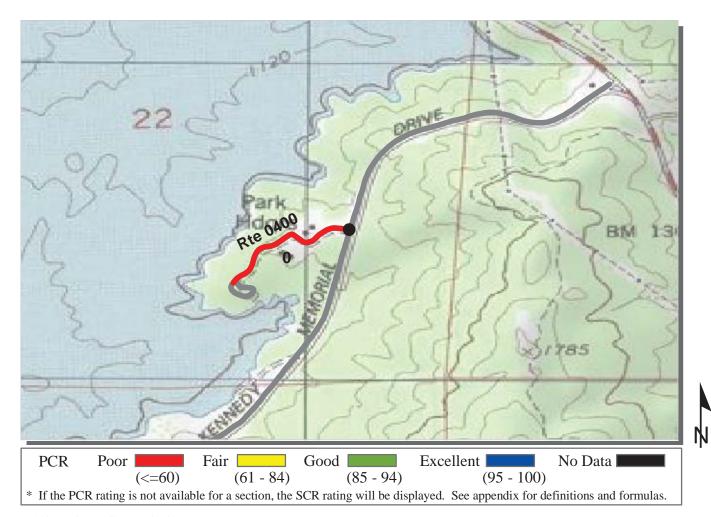


WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

COLLECTED: 7/29/2007

			00.	LLLCTLD.	.,,,	
ROUTE: 0221 CRYSTAL CREEK	CAMP AC	CESS ROAD	TOTAL	LENGTH:	1.97 Miles	
Section Number	0	1				
Section Length (mi)	1.00	0.97				
Traffic AADT SADT ADT Date	Click on PRO	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information						
Number of Lanes	1	2				
Paved Width (ft)	10	20				
Lane Width (ft)	9	11				
Shoulder Width Right (ft)**	10	2				
Shoulder Width Left (ft)**	0	0				
Roadway Condition Information						
SCR (Surface Condition Rating)	75	69				
PCR (Pavement Condition Rating)	77	74				
Distress Index Values						
Alligator Cracking Index	100	100				
Longitudinal Cracking Index	100	100				
Tranverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	76	70				
Roughness Condition Index (RCI)	81	81				

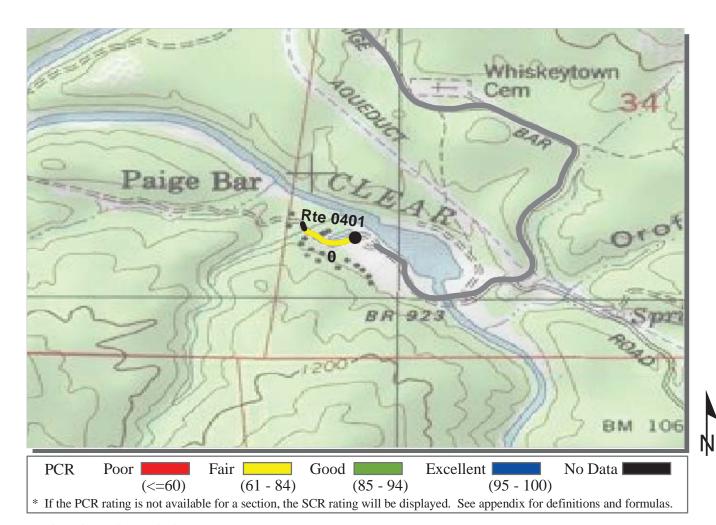
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0400 HEADQUARTERS	ROAD		TOTAL	LENGTH:	0.24 Miles
Section Number	0				
Section Length (mi)	0.24				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traff		t.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	11				
Shoulder Width Right (ft)**	5				
Shoulder Width Left (ft)**	0				
Roadway Condition Information					
SCR (Surface Condition Rating)	3				
PCR (Pavement Condition Rating)	4				
Distress Index Values					
Alligator Cracking Index	8				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	95				
Patching Index	98				
Rutting Index	64				
Roughness Condition Index (RCI)	35				

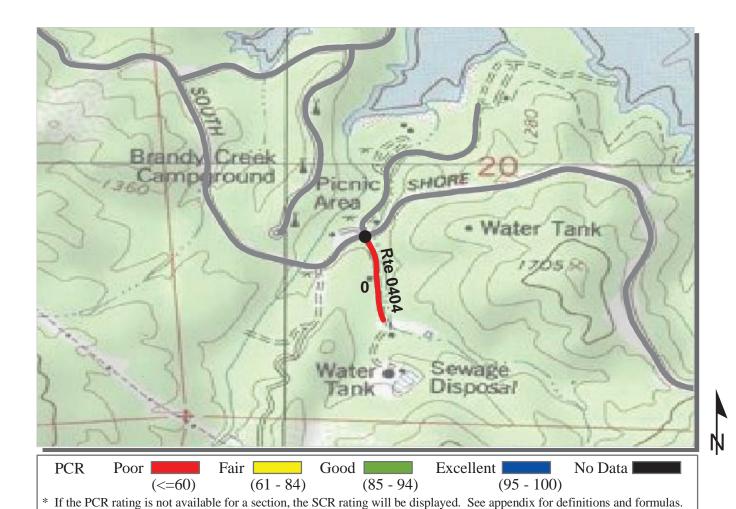
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0401 N.E.E.D. CAMP RE	SIDENCE R	COAD	TOTAL	LENGTH:	0.10 Miles	
Section Number	0					
Section Length (mi)	0.10					
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	1					
Paved Width (ft)	13					
Lane Width (ft)	13					
Shoulder Width Right (ft)**	2					
Shoulder Width Left (ft)**	3					
Roadway Condition Information						
SCR (Surface Condition Rating)	78					
PCR (Pavement Condition Rating)	78					
Distress Index Values						
Alligator Cracking Index	98					
Longitudinal Cracking Index	100					
Tranverse Cracking Index	100					
Patching Index	100					
Rutting Index	80					
Roughness Condition Index (RCI)	NC					

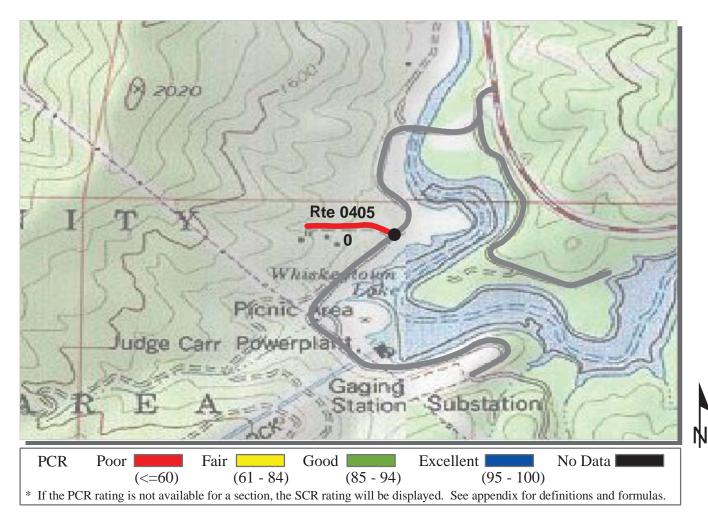
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0404 BRANDY CREEK S	SERVICE R	OAD SOUTH	I TOTAL	LENGTH:	0.17 Miles	
Section Number	0					
Section Length (mi)	0.17					
Traffic						
AADT		nay be found at v OGRAMS / NPS		ot.gov		
SADT		(Note: Not all parks have traffic data)				
ADT Date	(11010.1101 11	i parks have train	ie data)			
Cross Section Information						
Number of Lanes	1					
Paved Width (ft)	8					
Lane Width (ft)	8					
Shoulder Width Right (ft)**	0					
Shoulder Width Left (ft)**	0					
Roadway Condition Information						
SCR (Surface Condition Rating)	34					
PCR (Pavement Condition Rating)	36					
Distress Index Values						
Alligator Cracking Index	100					
Longitudinal Cracking Index	99					
Tranverse Cracking Index	99					
Patching Index	98					
Rutting Index	37					
Roughness Condition Index (RCI)	59					

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

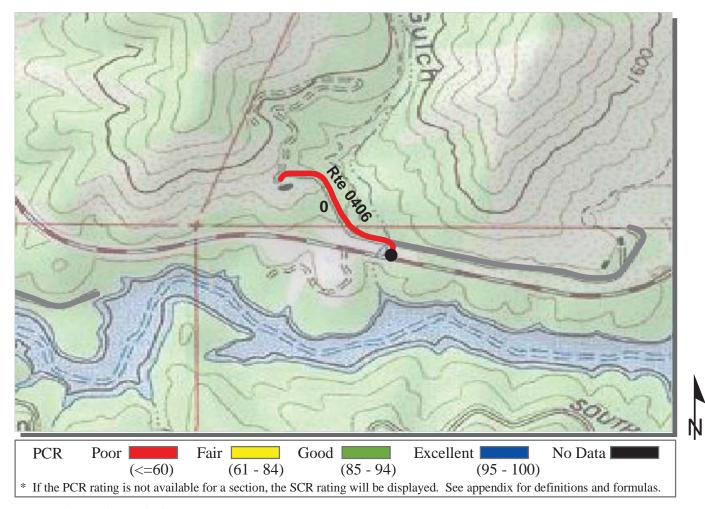


WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

COLLECTED: 7/29/2007

ROUTE: 0405 CARR POWERHO	USE SERVI	CE ROAD		LENGTH:	0.14 Miles
Section Number	0				
Section Length (mi)	0.14				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width Right (ft)**	4				
Shoulder Width Left (ft)**	7				
Roadway Condition Information					
SCR (Surface Condition Rating)	54				
PCR (Pavement Condition Rating)	54				
Distress Index Values					
Alligator Cracking Index	98				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	57				
Roughness Condition Index (RCI)	NC				

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

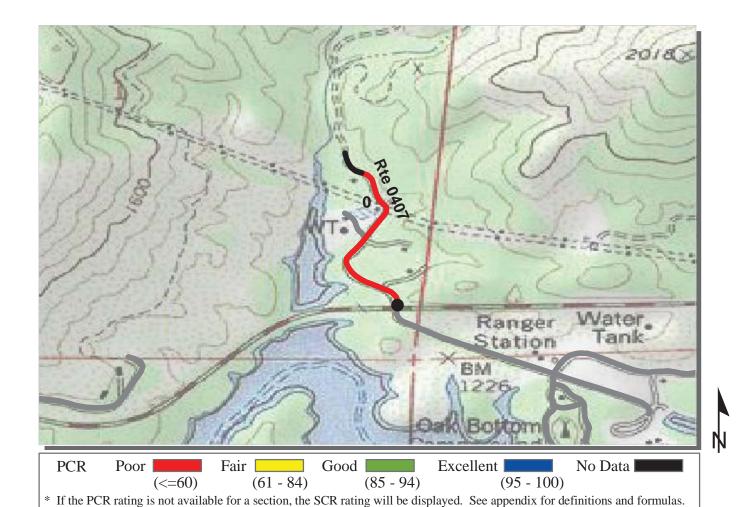


WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

COLLECTED: 7/29/2007

ROUTE: 0406 QUARTERS 324 RO	34D			LENGTH:	0.28 Miles	
Section Number	I -	ı	IUIAL	LENGIH:	0.26 Willes	
	0					
Section Length (mi)	0.28					
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	24					
Lane Width (ft)	12					
Shoulder Width Right (ft)**	1					
Shoulder Width Left (ft)**	0					
Roadway Condition Information						
SCR (Surface Condition Rating)	49					
PCR (Pavement Condition Rating)	48					
Distress Index Values						
Alligator Cracking Index	100					
Longitudinal Cracking Index	100					
Tranverse Cracking Index	98					
Patching Index	100					
Rutting Index	52					
Roughness Condition Index (RCI)	43					

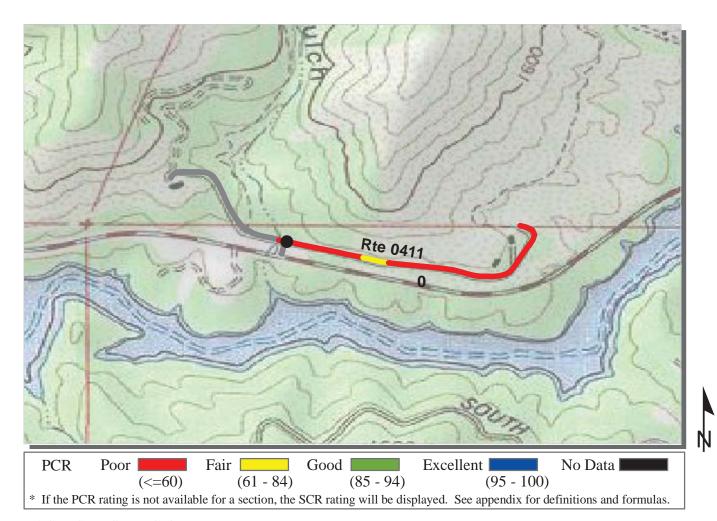
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0407 GRIZZLY GULCH	ROAD		TOTAL	LENGTH:	0.38 Miles	
Section Number	0					
Section Length (mi)	0.38					
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	29					
Lane Width (ft)	14					
Shoulder Width Right (ft)**	8					
Shoulder Width Left (ft)**	6					
Roadway Condition Information						
SCR (Surface Condition Rating)	17					
PCR (Pavement Condition Rating)	21					
Distress Index Values						
Alligator Cracking Index	75					
Longitudinal Cracking Index	93					
Tranverse Cracking Index	94					
Patching Index	99					
Rutting Index	48					
Roughness Condition Index (RCI)	37					

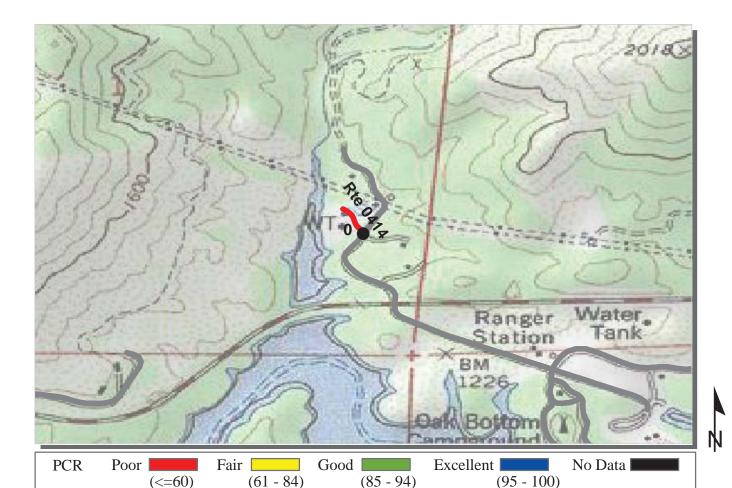
^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

				CLLCTLD.	115012001
ROUTE: 0411 BULL GULCH SER	RVICE ROA	D	TOTAL	LENGTH:	0.46 Miles
Section Number	0				
Section Length (mi)	0.46				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	9				
Shoulder Width Right (ft)**	3				
Shoulder Width Left (ft)**	3				
Roadway Condition Information					
SCR (Surface Condition Rating)	58				
PCR (Pavement Condition Rating)	55				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	60				
Roughness Condition Index (RCI)	51				

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



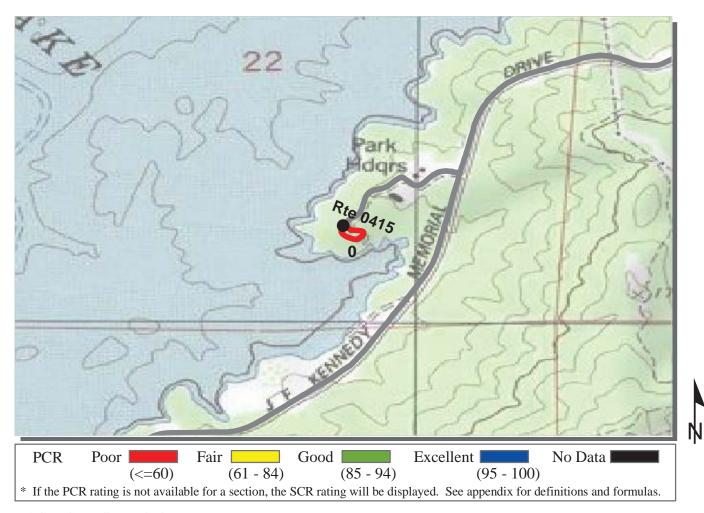
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

PACIFIC WEST REGION

WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0414 GRIZZLY GULCH W. Section Number	0	l leetsb ko		O I I I I	LLI,GIII,	0.06 Miles
Section Length (mi)	0.06		-			
Traffic	0.00	<u> </u>				
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
SADT						
ADT Date	(Note: Not al	i parks nave tran	ne data)			
Cross Section Information						
Number of Lanes	1					
Paved Width (ft)	12					
Lane Width (ft)	12					
Shoulder Width Right (ft)**	2					
Shoulder Width Left (ft)**	6					
Roadway Condition Information						
SCR (Surface Condition Rating)	38					
PCR (Pavement Condition Rating)	38					
Distress Index Values						
Alligator Cracking Index	94					
Longitudinal Cracking Index	98					
Tranverse Cracking Index	99					
Patching Index	99					
Rutting Index	49					
Roughness Condition Index (RCI)	NC					

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



WHIS: WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA

ROUTE: 0415 GOVERNMENT BO	OAT LAUNG	CH LOOP	TOTAL	LENGTH:	0.10 Miles
Section Number	0				
Section Length (mi)	0.10				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	15				
Lane Width (ft)	7				
Shoulder Width Right (ft)**	3				
Shoulder Width Left (ft)**	0				
Roadway Condition Information					
SCR (Surface Condition Rating)	25				
PCR (Pavement Condition Rating)	25				
Distress Index Values					
Alligator Cracking Index	40				
Longitudinal Cracking Index	96				
Tranverse Cracking Index	93				
Patching Index	100				
Rutting Index	69				
Roughness Condition Index (RCI)	NC				

^{**} Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

Whiskeytown-Shasta-Trinity National Recreation Area



Section 6
Manually Rated Paved Route
Condition Rating Sheets (MRR)

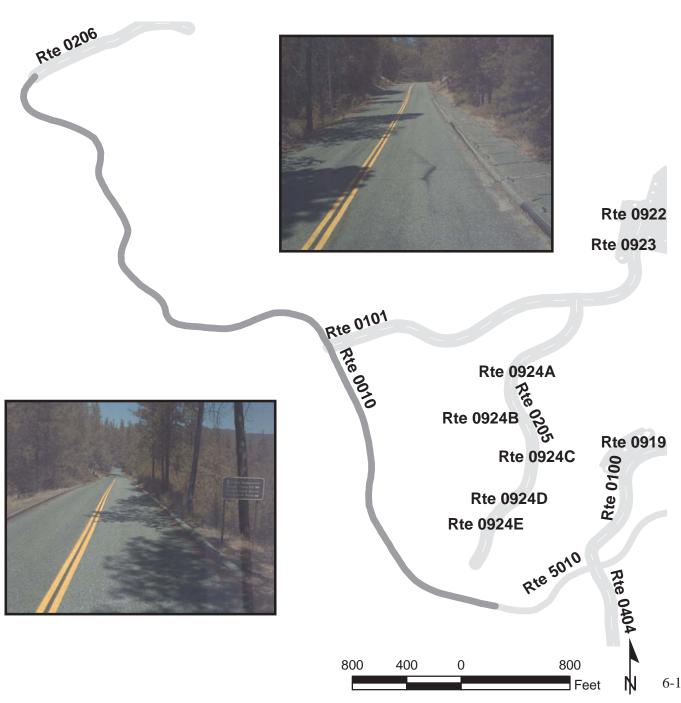
WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA Route 0010

SOUTH SHORE DRIVE EAST

FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE - AFTER BRANDY CREEK BRIDGE)
TO ROUTE 0206 (DRY CREEK CAMPGROUND)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0010	PUBLIC	7/2	9/2007	110,880	1.91	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	ASPHALT CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

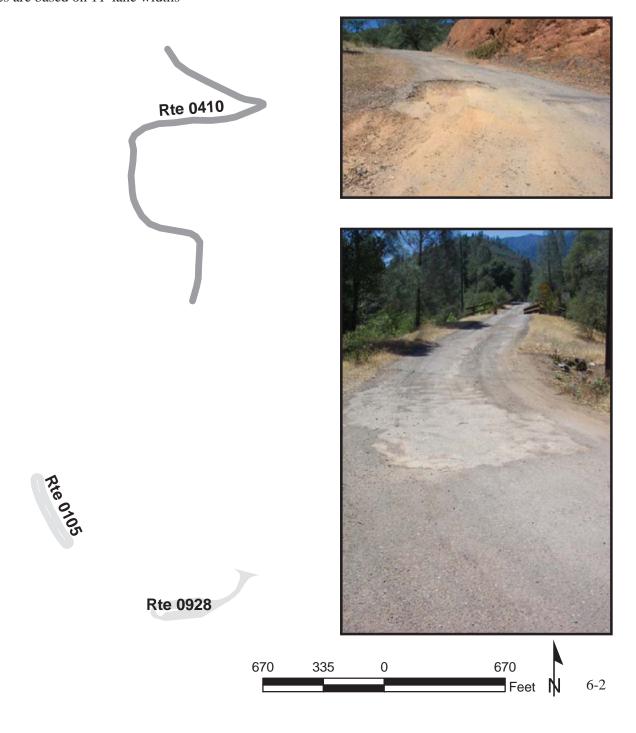


WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA Route 0410

TOWER RESIDENCE ROAD FROM TRINITY MOUNTAIN ROAD TO END AT GATE

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0410	NONPUBLIC	7/2	9/2007	42,134	0.73	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	1	0	GUTTER	NO CURB	POOR/45

^{*} Lane miles are based on 11' lane widths



Whiskeytown-Shasta-Trinity National Recreation Area



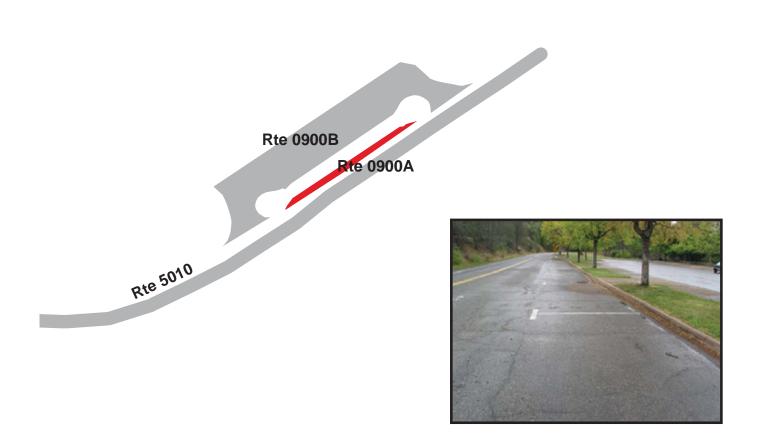
Section 7
Parking Area Condition Rating Sheets

WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA Route 0900A

VISITOR CENTER PARKING A FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE) TO ROUTE 5010 (KENNEDY MEMORIAL DRIVE)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0900A	PUBLIC	4/1	9/2007	1,507	0.03	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths

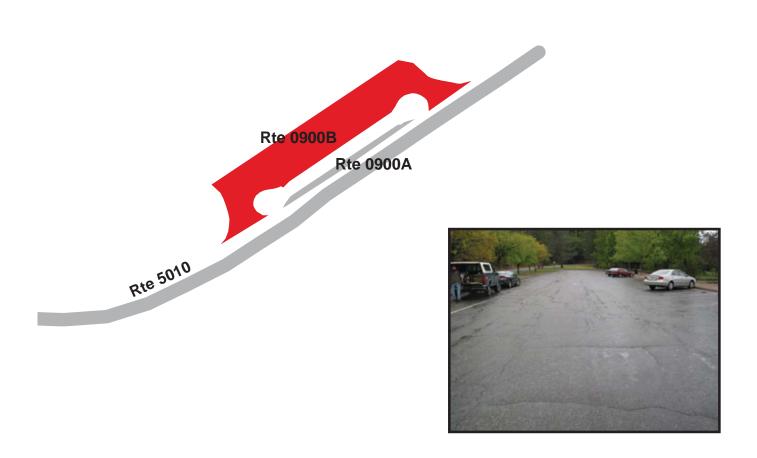


WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA Route 0900B

VISITOR CENTER PARKING B FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0900B	PUBLIC	4/1	8/2007	17,893	0.31	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	1	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths



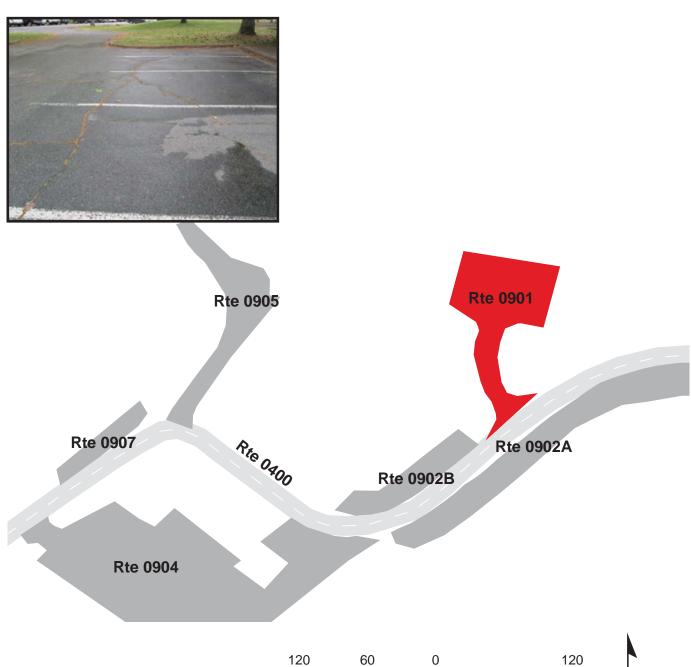
WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA **Route 0901**

PARK HEADQUARTERS VISITOR PARKING

FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.04 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901	PUBLIC	4/1	9/2007	5,170	0.09	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	FAIR/73

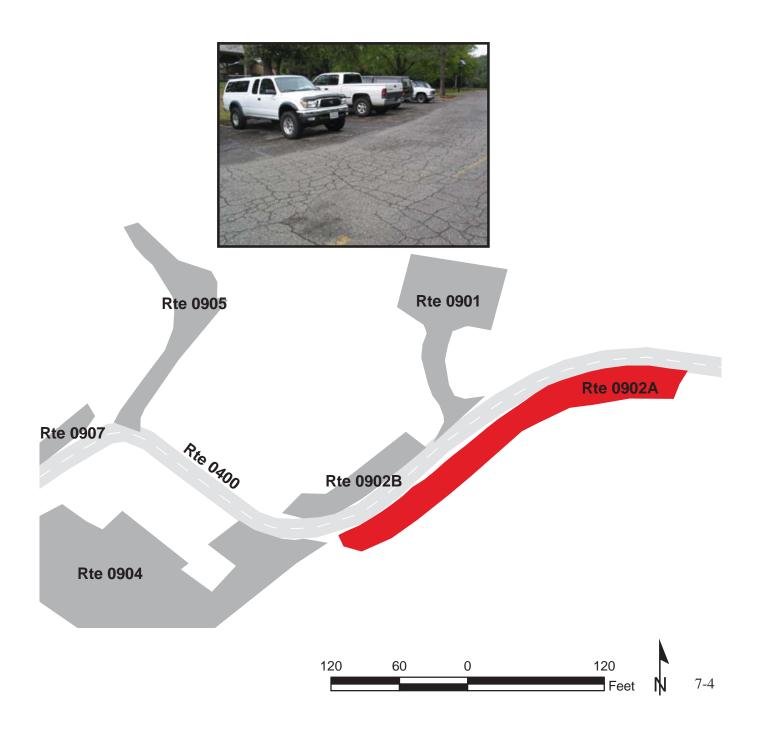
^{*} Lane miles are based on 11' lane widths



PARK HEADQUARTERS EMPLOYEE PARKING A FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.03 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902A	NONPUBLIC	4/1	9/2007	6,384	0.11	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	WOOD CURB	POOR/45

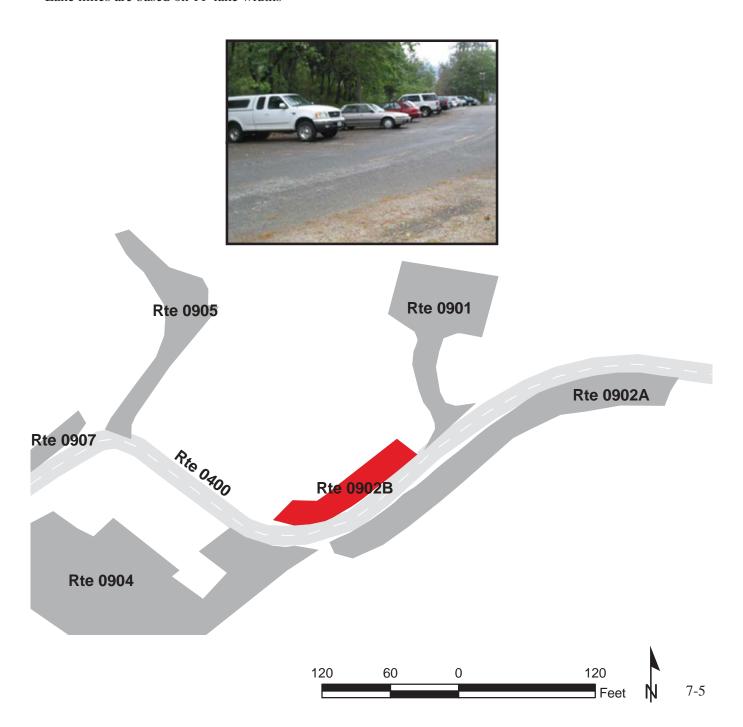
^{*} Lane miles are based on 11' lane widths



PARK HEADQUARTERS EMPLOYEE PARKING B FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.06 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902B	NONPUBLIC	4/19	9/2007	2,133	0.04	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	1	0	0	GUTTER	NO CURB	POOR/45

^{*} Lane miles are based on 11' lane widths

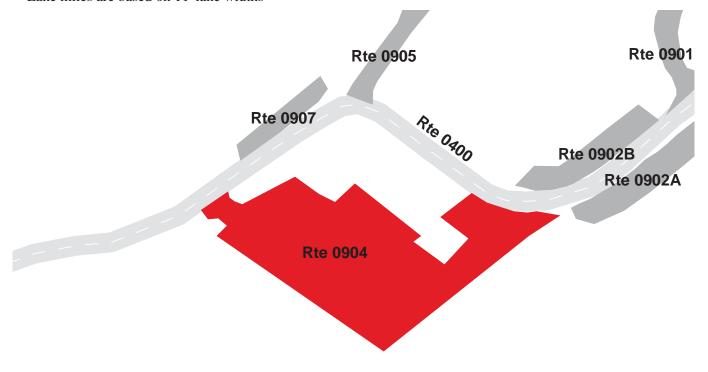


MAINTENANCE YARD

FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.07 (ON LEFT) TO ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.12 (ON LEFT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0904	NONPUBLIC	4/19/2007		16,393	0.28	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	POOR/45

^{*} Lane miles are based on 11' lane widths



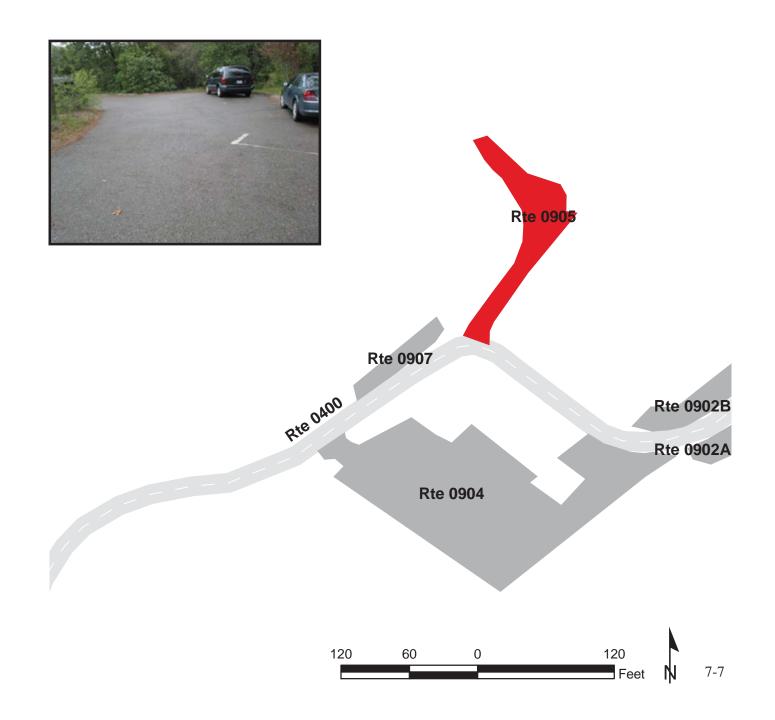




HEADQUARTERS ADMINISTRATIVE PARKING FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.10 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905	NONPUBLIC	4/19/2007		3,783	0.07	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	ASPHALT	
0	0	0	1	GUTTER	CURB	GOOD/90

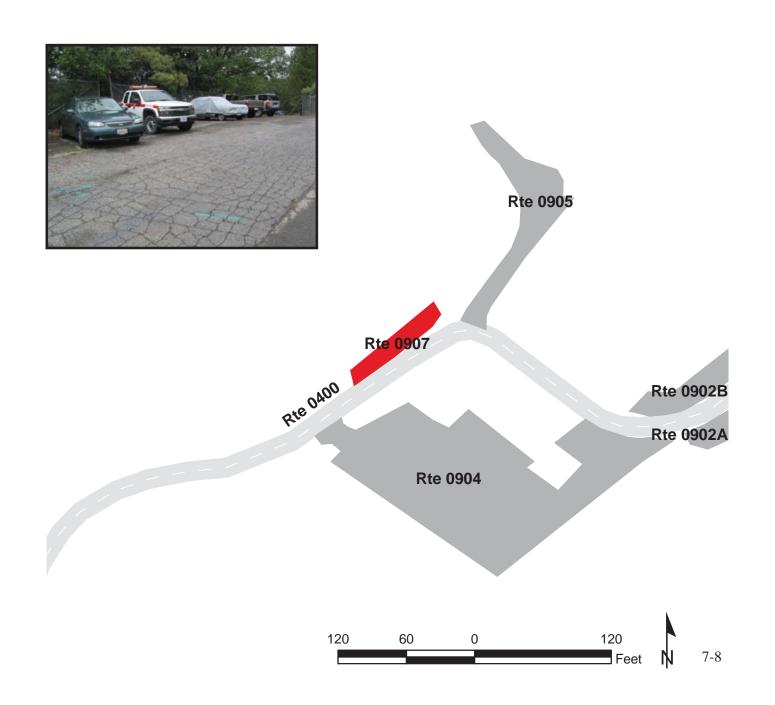
^{*} Lane miles are based on 11' lane widths



HEADQUARTERS GOVERNMENT CAR PARKING FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.11 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907	NONPUBLIC	4/19/2007		1,132	0.02	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	POOR/45

^{*} Lane miles are based on 11' lane widths



KENNEDY MONUMENT / DAM PARKING A FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911A	PUBLIC	7/28/2007		7,935	0.14	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	POOR/45

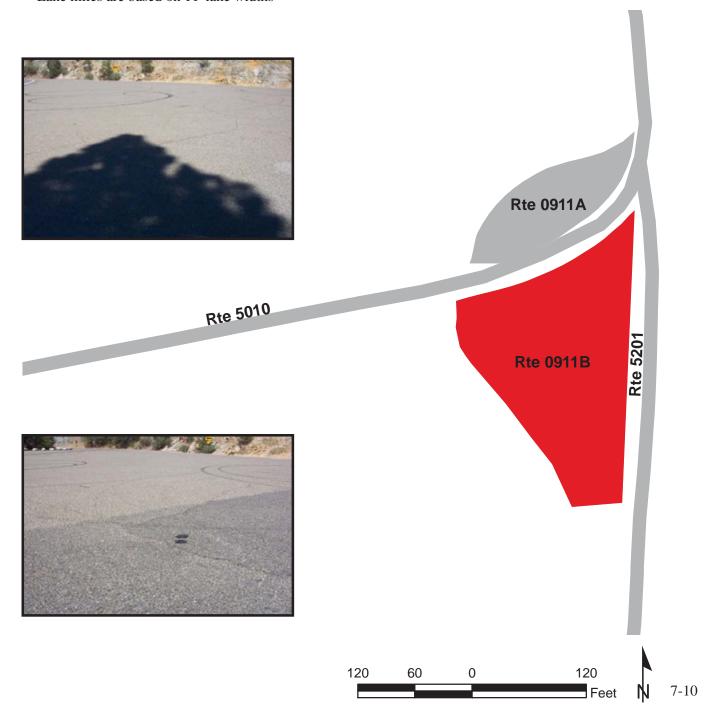
^{*} Lane miles are based on 11' lane widths



KENNEDY MONUMENT / DAM PARKING B FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE) TO ROUTE 5201 (PAIGE BAR ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911B	PUBLIC	7/28/2007		25,549	0.44	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	POOR/45

^{*} Lane miles are based on 11' lane widths



N.E.E.D. CAMP PARKING

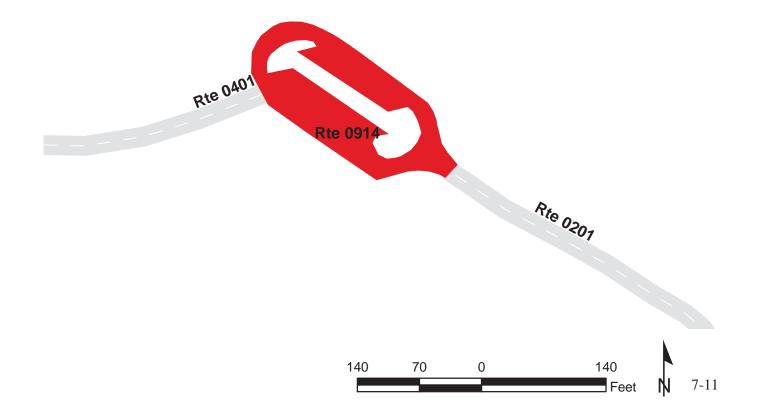
FROM ROUTE 0201 (N.E.E.D. CAMP ROAD) AT MP 0.27 (SIDE N/A) TO ROUTE 0401 (N.E.E.D. CAMP RESIDENCE ROAD) AT MP 0.00 (SIDE N/A)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0914	PUBLIC	4/19/2007		13,435	0.23	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



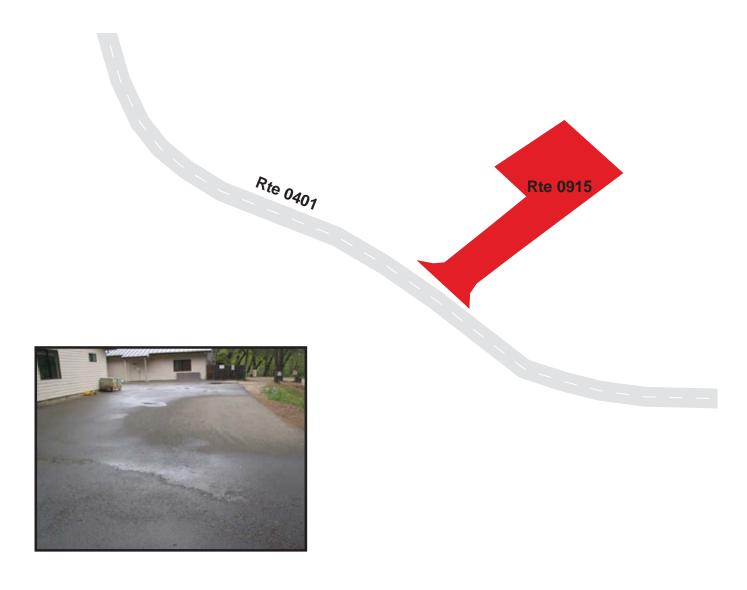




N.E.E.D. CAMP CAFETERIA ACCESS PARKING FROM ROUTE 0401 (N.E.E.D. CAMP RESIDENCE ROAD) AT MP 0.06 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0915	PUBLIC	4/19/2007		2,524	0.04	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths

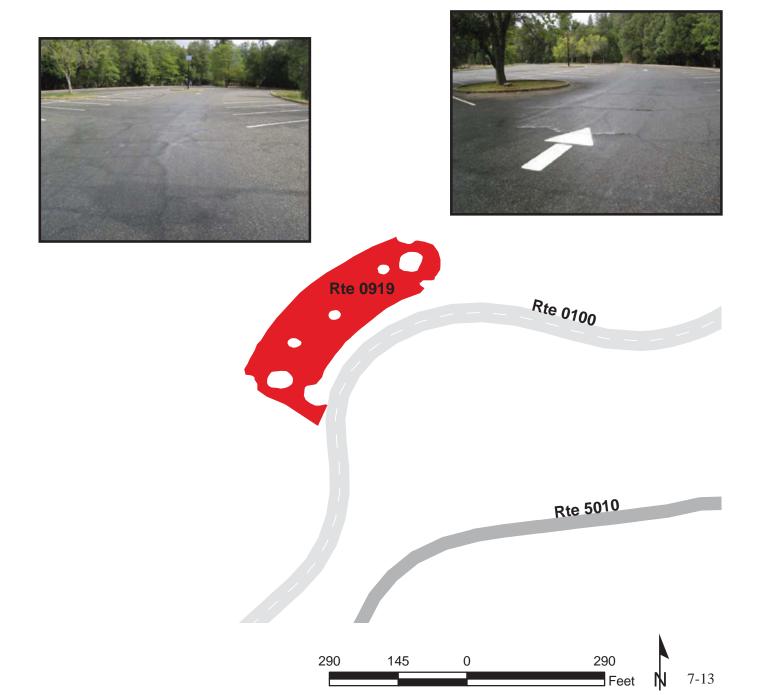


BRANDY CREEK PARKING LOT A

FROM ROUTE 0100 (BRANDY CREEK BEACH ROAD) AT MP 0.12 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0919	PUBLIC	4/19/2007		45,119	0.78	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	1	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

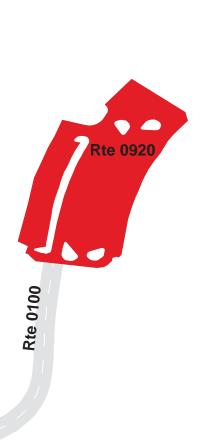


BRANDY CREEK PARKING LOT B

FROM ROUTE 0100 (BRANDY CREEK BEACH ROAD) AT MP 0.37 (SIDE N/A) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0920	PUBLIC	4/1	9/2007	113,012	1.95	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	1	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







Rte 5010

BRANDY CREEK MARINA PARKING

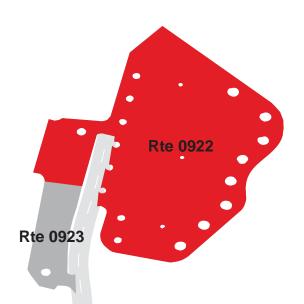
FROM ROUTE 0101 (BRANDY CREEK MARINA ROAD) AT MP 0.43 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0922	PUBLIC	4/19/2007		181,074	3.12	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	1	GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







Rte 0101

320

160

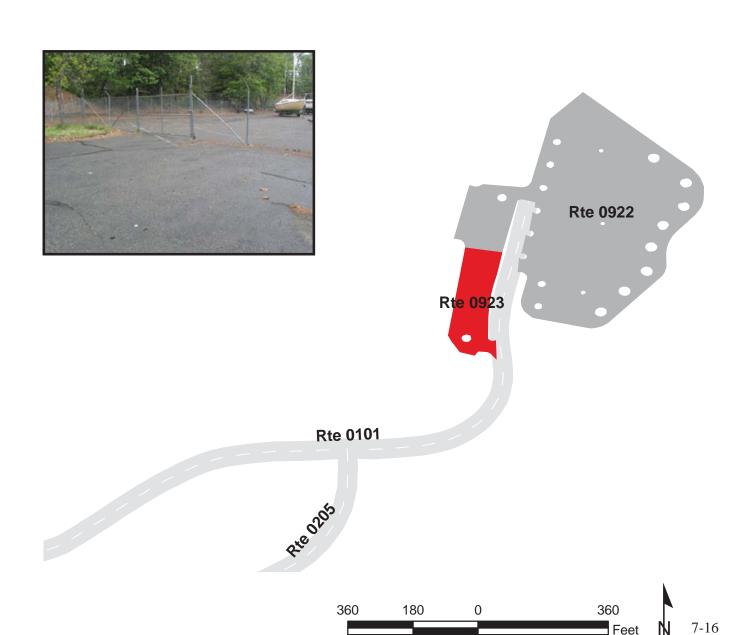
Pre ODS

DRY STORAGE AREA

FROM ROUTE 0922 (BRANDY CREEK MARINA PARKING)
TO ROUTE 0101 (BRANDY CREEK MARINA ROAD) AT MP 0.38 (ON LEFT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0923	NONPUBLIC	4/1	9/2007	22,285	0.38	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	POOR/45

^{*} Lane miles are based on 11' lane widths



BRANDY CREEK R.V. PARKING A

FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.13 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0924A	PUBLIC	4/1	9/2007	3,340	0.06	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths





Rte 0924B

Rte 0924C

Rte 0924D



BRANDY CREEK R.V. PARKING B

FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.18 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0924B	PUBLIC	4/19	9/2007	5,635	0.10	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths







Rte 0924C

Rte 0924D



BRANDY CREEK R.V. PARKING C

FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.25 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0924C	PUBLIC	4/1	9/2007	2,772	0.05	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

Rte 0924A







Rte 0924D



BRANDY CREEK R.V. PARKING D

FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.32 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0924D	PUBLIC	4/1	9/2007	4,220	0.07	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

Rte 0924A





Rte 0924C

Rte **092**4D

BRANDY CREEK R.V. PARKING E

FROM ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND) AT MP 0.36 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0924E	PUBLIC	4/1	9/2007	4,576	0.08	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

Rte 0924A

Rte 0924B



Rte 0924C

Rte 0924D

Rte **09**24E

280



CARR PICNIC AREA PARKING

FROM ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.63 (ON LEFT) TO ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.71 (ON LEFT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0925	PUBLIC	4/1	9/2007	21,227	0.37	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	ASPHALT	
0	0	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



TOWER HOUSE HISTORIC DISTRICT PARKING FROM STATE HIGHWAY 299 TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0928	PUBLIC	4/1	9/2007	30,397	0.52	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	2	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths







OAK BOTTOM CAMPGROUND STORE PARKING

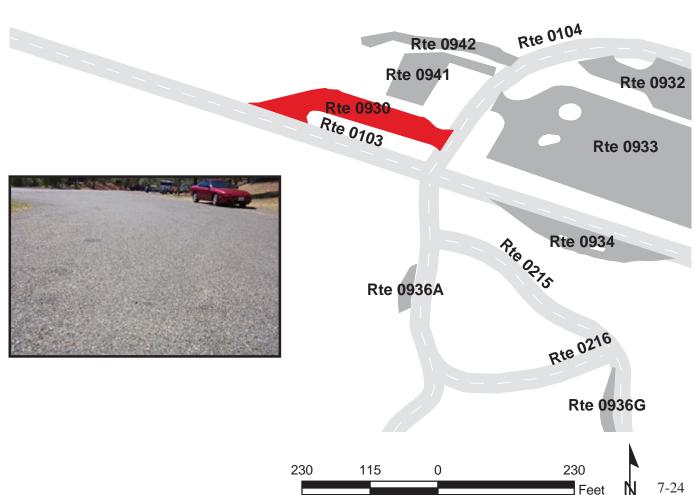
FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.23 (ON LEFT) TO ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.01 (ON LEFT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0930	PUBLIC	7/2	8/2007	9,382	0.16	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



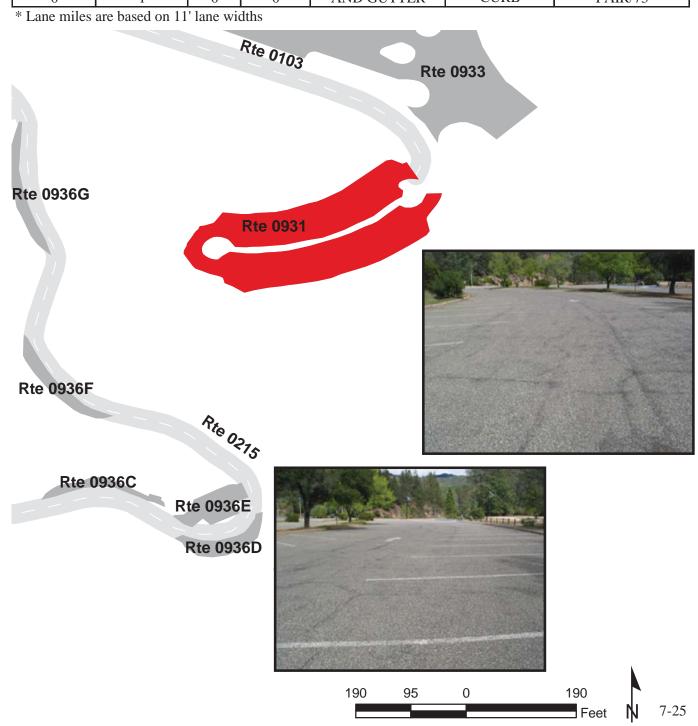




OAK BOTTOM BEACH PARKING

FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.45 (SIDE N/A) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0931	PUBLIC	4/1	8/2007	36,344	0.63	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	1	0	0	AND GUTTER	CURB	FAIR/73

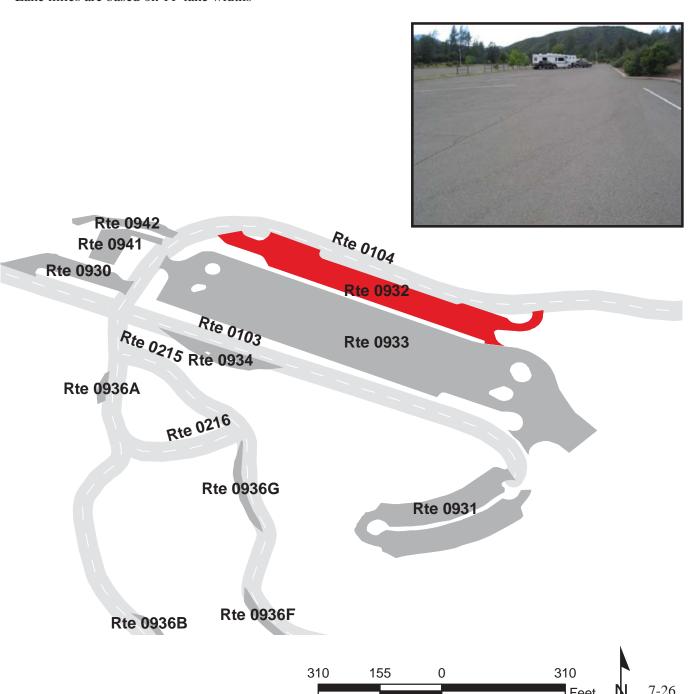


OAK BOTTOM R.V. CAMP PARKING

FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.05 (ON RIGHT) TO ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.18 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0932	PUBLIC	4/1	8/2007	38,853	0.67	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	POOR/45

^{*} Lane miles are based on 11' lane widths



OAK BOTTOM LAUNCH RAMP

FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.02 (ON RIGHT) TO ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.44 (ON LEFT)

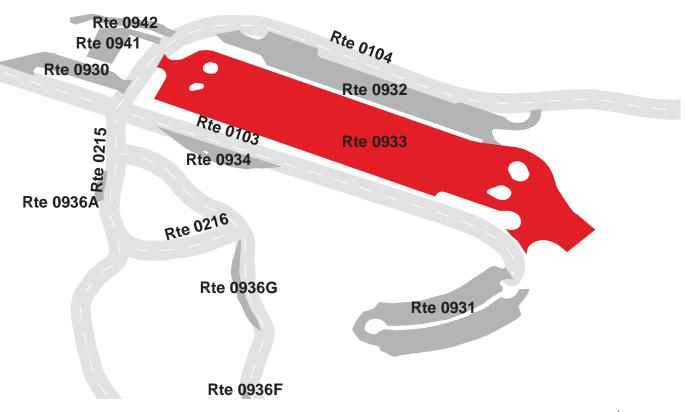
Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0933	PUBLIC	4/1	8/2007	129,737	2.23	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths





310



155

310

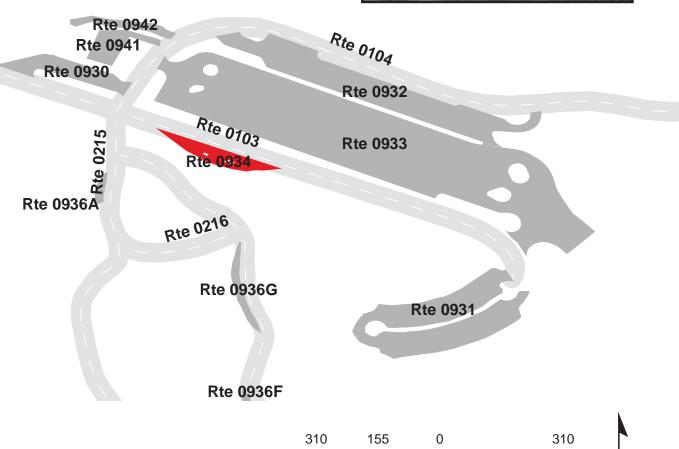
OAK BOTTOM R.V. DUMP STATION PARKING

FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.30 (ON RIGHT) TO ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.34 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0934	PUBLIC	4/1	8/2007	6,605	0.11	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths





OAK BOTTOM MARINA PARKING

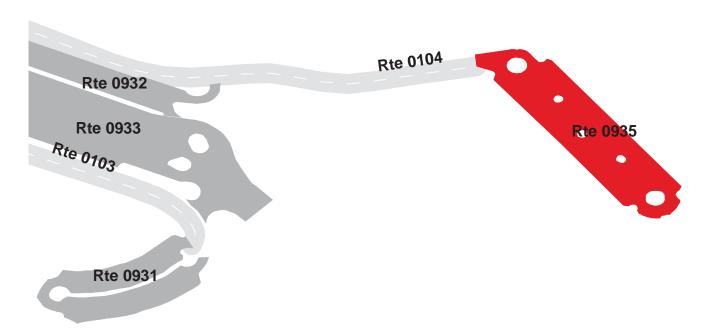
FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.28 (SIDE N/A) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0935	PUBLIC	4/1	8/2007	57,040	0.98	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	2	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



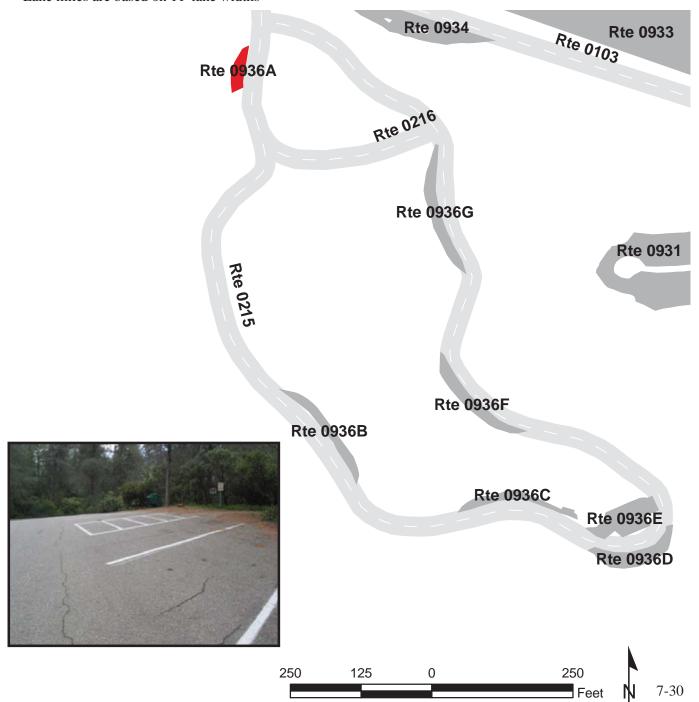




OAK BOTTOM CAMPGROUND PARKING A FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.04 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0936A	PUBLIC	4/1	8/2007	1,149	0.02	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

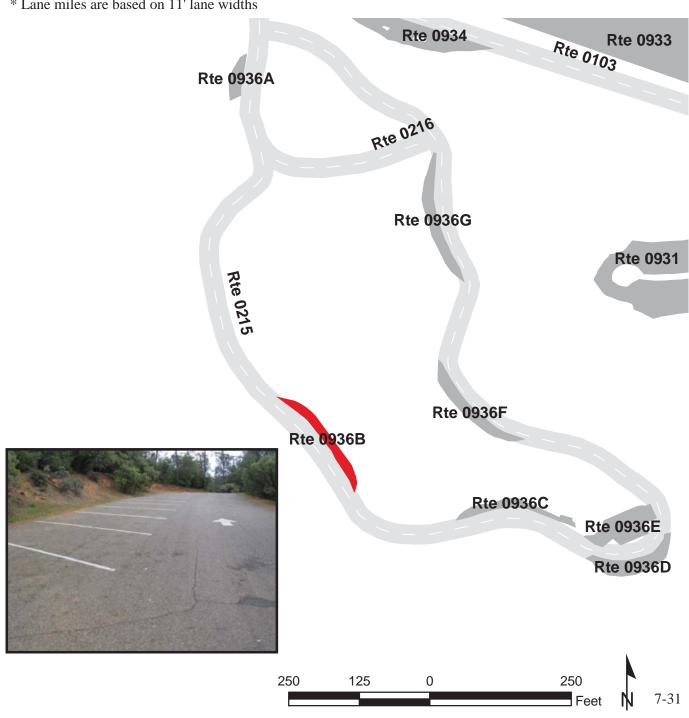
^{*} Lane miles are based on 11' lane widths



OAK BOTTOM CAMPGROUND PARKING B FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.17 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0936B	PUBLIC	4/1	8/2007	2,357	0.04	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

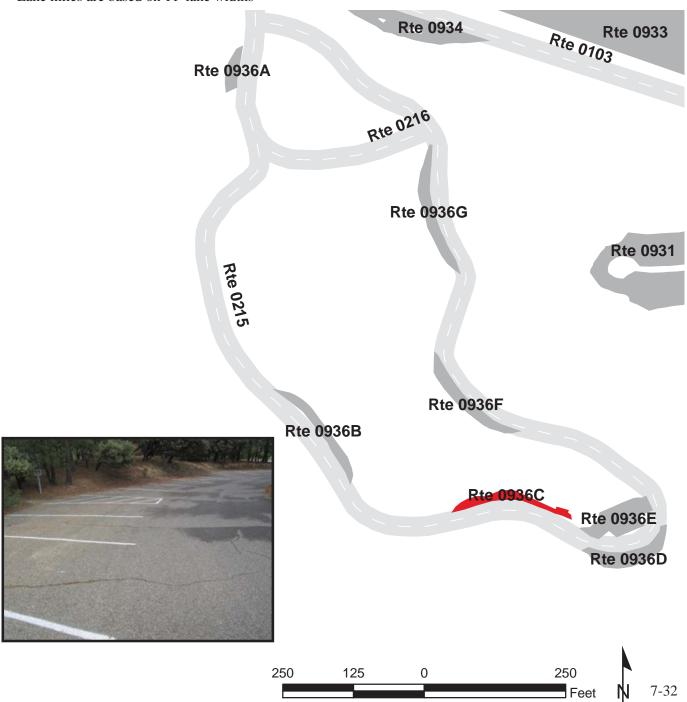
^{*} Lane miles are based on 11' lane widths



OAK BOTTOM CAMPGROUND PARKING C FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.24 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0936C	PUBLIC	4/1	8/2007	2,077	0.04	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

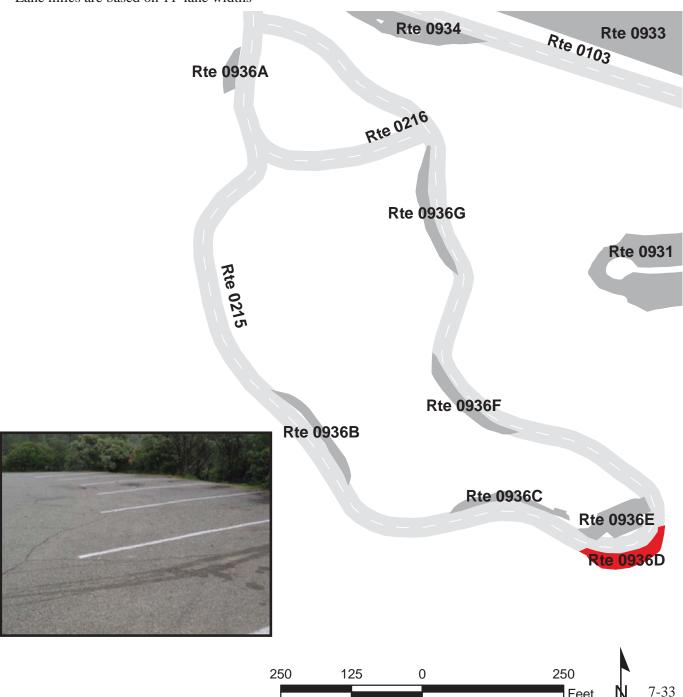
^{*} Lane miles are based on 11' lane widths



OAK BOTTOM CAMPGROUND PARKING D FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.28 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0936D	PUBLIC	4/1	8/2007	3,031	0.05	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

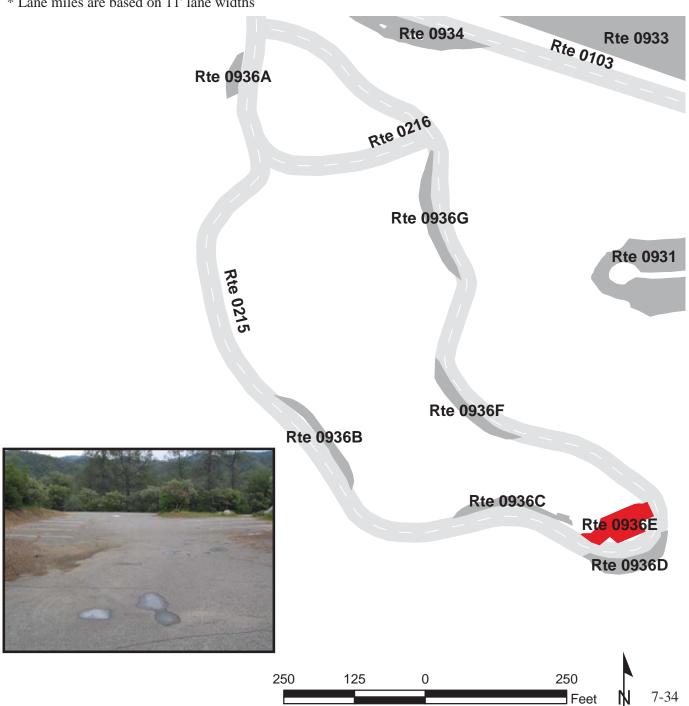


OAK BOTTOM CAMPGROUND PARKING E

FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.26 (ON LEFT) TO ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.29 (ON LEFT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0936E	PUBLIC	4/1	8/2007	3,748	0.07	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

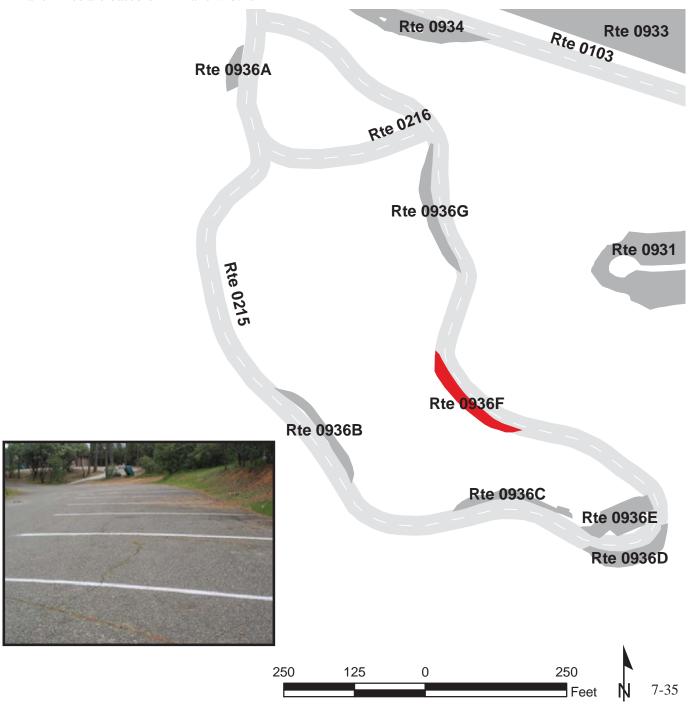
^{*} Lane miles are based on 11' lane widths



OAK BOTTOM CAMPGROUND PARKING F FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.35 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0936F	PUBLIC	4/1	8/2007	2,820	0.05	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

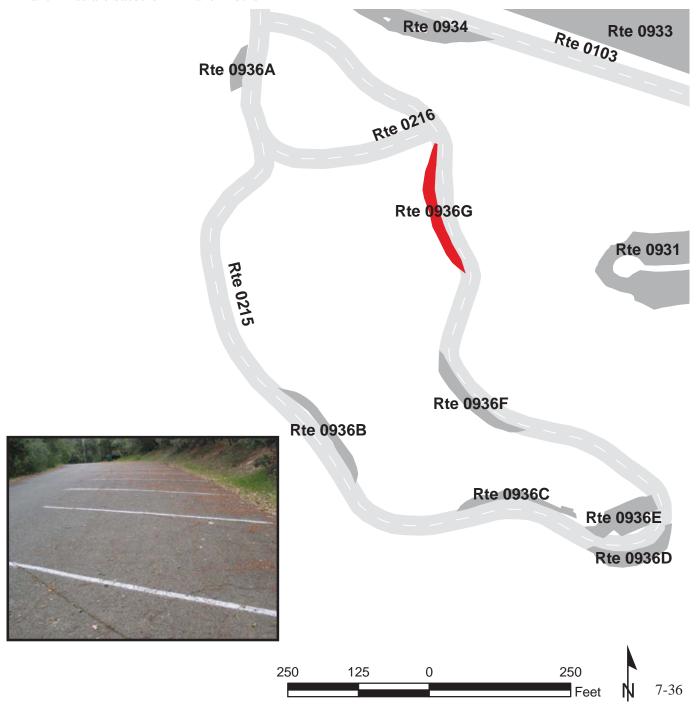
^{*} Lane miles are based on 11' lane widths



OAK BOTTOM CAMPGROUND PARKING G FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.42 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0936G	PUBLIC	4/1	8/2007	3,092	0.05	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



WHISKEY CREEK BOAT LAUNCH PARKING FROM ROUTE 5000 (WHISKEY CREEK ROAD) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0937	PUBLIC	4/19	9/2007	66,380	1.14	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths







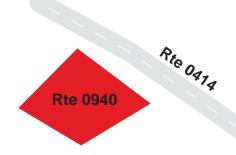


GRIZZLY GULCH WATER TANK ACCESS PARKING FROM ROUTE 0414 (GRIZZLY GULCH WATER TANK ACCESS ROAD) AT MP 0.06 (SIDE N/A) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0940	NONPUBLIC	4/1	8/2007	379	0.01	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	WOOD CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths





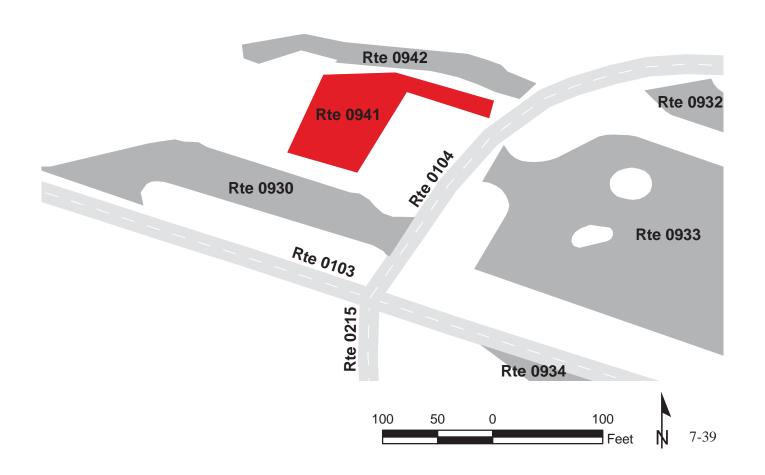
OAK BOTTOM CAMPGROUND STORE EMPLOYEE PARKING FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.03 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0941	NONPUBLIC	7/2	8/2007	5,749	0.10	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	POOR/45

^{*} Lane miles are based on 11' lane widths







WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA Route 0942

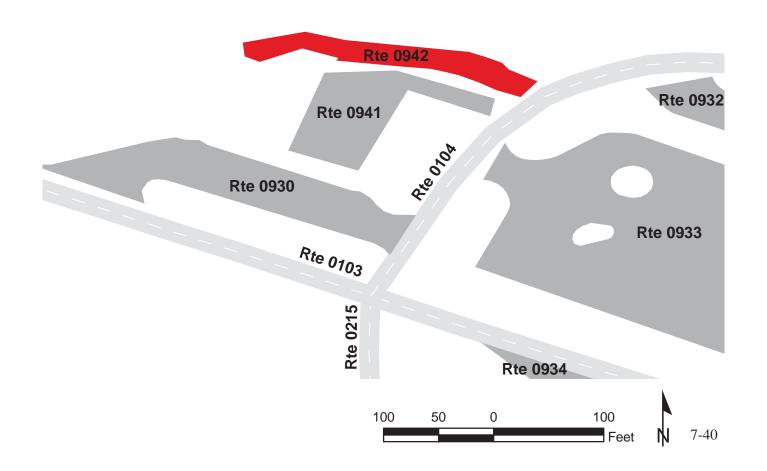
RESIDENCE 302 AND 303 PARKING FROM ROUTE 0104 (OAK BOTTOM MARINA ROAD) AT MP 0.04 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0942	NONPUBLIC	7/2	8/2007	3,865	0.07	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	POOR/45

^{*} Lane miles are based on 11' lane widths







WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA Route 0944

GUARDIAN ROCK TRAILHEAD PKG

FROM ROUTE 0201 (N.E.E.D. CAMP ROAD) AT MP 0.06 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0944	PUBLIC	7/3	0/2007	0	0.00	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths





Whiskeytown-Shasta-Trinity National Recreation Area



Section 8
Parkwide / Route Maintenance
Features Summaries

WHIS: PARKWIDE MAINTENANCE FEATURES SUMMARY

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

FEATURE	LINEAR FEET	COUNT
BARRIER	3,606	
BOLLARD	69	
BRIDGE		3
CABLE	348	
CATTLE GUARD		0
CULVERT		75
CURB	5,164	
DROP INLET		18
FIRE HYDRANT		8
GATE		17
GUARD/GUIDE RAIL	3,538	
GUARD/GUIDE WALL	69	
INTERSECTION		174
LOW WATER CROSSING	0	0
MILE MARKER		0
OVERPASS		0
OVERHEAD SIGN		0
PARK BOUNDARY		0
PAVED DITCH	2,080	
PULLOUT		4
RAILROAD CROSSING		0
RETAINING WALL		1
SIGN		179
STATE BOUNDARY		0
TEMPORARY BARRIER	0	
TRAFFIC LIGHT		0
TUNNEL		0
TURNOUT	0	
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WHIS: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0100 BRANDY CREEK BEACH ROAD	ROUTE 0101 BRANDY CREEK MARINA ROAD	ROUTE 0103 OAK BOTTOM BEACH ROAD	ROUTE 0104 OAK BOTTOM MARINA ROAD	ROUTE 0105 TOWER HOUSE FOOTBRIDGE ACCESS ROAD	ROUTE 0201 N.E.E.D. CAMP ROAD	UNIT
BARRIER	0	470	0	0	0	665	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	1	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	7	5	3	0	0	1	EACH
CURB	0	1,320	1,742	190	0	676	LINEAR FEET
DROP INLET	1	1	0	1	0	0	EACH
FIRE HYDRANT	1	0	0	0	0	0	EACH
GATE	1	0	0	1	1	1	EACH
GUARD/GUIDE RAIL	0	470	0	0	0	665	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	7	10	12	9	4	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	1,299	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
SIGN	20	8	17	10	5	21	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

WHIS: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0205 BRANDY CREEK MARINA R.V. CAMPGROUND	ROUTE 0206 DRY CREEK CAMPGROUND	ROUTE 0209 CARR POWERHOUSE ROAD	ROUTE 0211 CARR LAKE ACCESS ROAD	ROUTE 0215 OAK BOTTOM CAMPGROUND LOOP A	ROUTE 0216 OAK BOTTOM CAMPGROUND LOOP B	UNIT
BARRIER	0	0	391	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	1	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	4	8	6	1	0	EACH
CURB	275	0	259	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	0	0	0	0	0	EACH
GATE	1	1	1	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	391	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	8	4	15	7	17	4	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	781	0	0	0	0	0	LINEAR FEET
PULLOUT	2	0	1	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
SIGN	14	4	15	3	12	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Data Collected 7/31/2007

WHIS: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0220 WHISKEY CREEK GROUP PICNIC ROAD	ROUTE 0221 CRYSTAL CREEK CAMP ACCESS ROAD	ROUTE 0400 HEADQUARTERS ROAD	ROUTE 0401 N.E.E.D. CAMP RESIDENCE ROAD	ROUTE 0404 BRANDY CREEK SERVICE ROAD SOUTH	ROUTE 0405 CARR POWERHOUSE SERVICE ROAD	UNIT
BARRIER	0	1,943	0	137	0	0	LINEAR FEET
BOLLARD	0	69	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	1	0	0	EACH
CABLE	0	348	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	6	20	0	0	2	1	EACH
CURB	143	0	116	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	0	1	1	0	0	EACH
GATE	1	2	2	0	1	0	EACH
GUARD/GUIDE RAIL	0	1,874	0	137	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	69	0	0	0	0	LINEAR FEET
INTERSECTION	10	7	14	4	6	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	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
SIGN	11	17	4	5	3	1	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Data Collected 7/31/2007

WHIS: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0406 QUARTERS 324 ROAD	ROUTE 0407 GRIZZLY GULCH ROAD	ROUTE 0411 BULL GULCH SERVICE ROAD	ROUTE 0414 GRIZZLY GULCH WATER TANK ACCESS ROAD	ROUTE 0415 GOVERNMENT BOAT LAUNCH LOOP	UNIT
BARRIER	0	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	EACH
CULVERT	2	3	6	0	0	EACH
CURB	296	0	0	0	148	LINEAR FEET
DROP INLET	0	0	0	0	0	EACH
FIRE HYDRANT	0	0	0	0	0	EACH
GATE	1	0	1	1	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	LINEAR FEET
INTERSECTION	6	5	3	7	3	EACH
LOW WATER CROSSING	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	1	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	EACH
RETAINING WALL	1	0	0	0	0	EACH
SIGN	3	2	2	2	0	EACH
STATE BOUNDARY	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	LINEAR FEET

Data Collected 7/31/2007

WHIS: STRUCTURE LIST

ROUTE	FUNCTIONAL	MILEPOST	MILEPOST		STRUCTURE
NUMBER	CLASS	START	END	FEATURE	NUMBER
0201	3	0.074	0.124	BRIDGE	8750-001
0401	5	0.091	0.096	BRIDGE	8750-007

Whiskeytown-Shasta-Trinity National Recreation Area



Section 9
Park Route Maintenance Features
Road Logs

ROUTE 0100: BRANDY CREEK BEACH ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.003	0.003	CULVERT	N/A	
0.008	0.008	INTERSECTION	LEFT	UNPAVED PARKING
0.008	0.008	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.008	0.008	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.012	0.012	SIGN	RIGHT	GUIDE, BRANDY CREEK AREA HOURS 9 AM - 9 PM
0.012	0.012	SIGN	RIGHT	REGULATORY, NO PARKING
0.015	0.015	SIGN	N/A	REGULATORY, NO PARKING
0.015	0.015	GATE	N/A	
0.025	0.025	SIGN	LEFT	GUIDE, DAY USE FEE REQUIRED
0.025	0.025	SIGN	LEFT	GUIDE, PAY STATION
0.034	0.034	SIGN	RIGHT	GUIDE, PAY HERE
0.038	0.038	INTERSECTION	RIGHT	ROUTE 0918 (BRANDY CREEK BEACH RESTROOM PARKING)
0.046	0.046	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.072	0.072	CULVERT	N/A	
0.080	0.080	SIGN	RIGHT	GUIDE, BRANDY CREEK ALCOHOLIC BEVERAGES PROHIBITED AT SWIM BEACHES AND PICNIC AREAS
0.099	0.099	SIGN	RIGHT	GUIDE, ADDITIONAL PARKING
0.099	0.099	SIGN	RIGHT	GUIDE, KAYAK TOURS
0.107	0.107	SIGN	RIGHT	GUIDE, NO DOGS ALLOWED ON BEACHES
0.114	0.114	DROP INLET	LEFT	
0.122	0.122	CULVERT	N/A	
0.123	0.123	INTERSECTION	LEFT	ROUTE 0919 (BRANDY CREEK PARKING LOT A)
0.134	0.134	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.134	0.134	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.166	0.166	CULVERT	N/A	
0.166	0.166	FIRE HYDRANT	LEFT	
0.175	0.175	CULVERT	N/A	
0.249	0.249	CULVERT	N/A	
0.297	0.297	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.341	0.341	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25

ROUTE 0100: BRANDY CREEK BEACH ROAD

FROM	TO			
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.364	0.364	CULVERT	N/A	
0.367	0.367	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.367	0.367	SIGN	RIGHT	REGULATORY, NO ALCOHOLIC BEVERAGES
0.370	0.370	INTERSECTION	RIGHT	ROUTE 0920 (BRANDY CREEK PARKING LOT B)
0.370	0.370	INTERSECTION	LEFT	ROUTE 0920 (BRANDY CREEK PARKING LOT B)
0.370	0.370	ROUTE END	N/A	TO ROUTE 0920 (BRANDY CREEK PARKING LOT B)

ROUTE 0101: BRANDY CREEK MARINA ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	INTERSECTION	LEFT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	SIGN	N/A	GUIDE, DRY CREEK 1 MI REDDING 15 MI BEACH 0.6 MI
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.004	0.024	CURB	LEFT	
0.006	0.077	PAVED DITCH	RIGHT	
0.024	0.024	CULVERT	N/A	
0.028	0.083	PAVED DITCH	LEFT	
0.076	0.102	CURB	RIGHT	
0.092	0.092	CULVERT	N/A	
0.122	0.179	GUARD/GUIDE RAIL	LEFT	
0.122	0.180	CURB	LEFT	
0.125	0.157	GUARD/GUIDE RAIL	RIGHT	
0.143	0.143	CULVERT	N/A	
0.154	0.154	DROP INLET	LEFT	
0.158	0.220	PAVED DITCH	RIGHT	
0.195	0.225	PAVED DITCH	LEFT	
0.221	0.221	SIGN	RIGHT	GUIDE, SELF CONTAINED CAMPING UNITS MARINA BOAT RAMP
0.261	0.261	CULVERT	N/A	
0.289	0.289	INTERSECTION	RIGHT	ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND)
0.329	0.329	SIGN	RIGHT	GUIDE, SELF CONTAINED CAMPERS SANITARY STATION
0.329	0.357	PAVED DITCH	LEFT	
0.363	0.381	CURB	LEFT	
0.376	0.376	CULVERT	N/A	
0.376	0.424	CURB-AND-GUTTER	RIGHT	
0.384	0.384	INTERSECTION	LEFT	ROUTE 0923 (DRY STORAGE AREA)
0.388	0.388	SIGN	RIGHT	GUIDE, PERSONAL WATERCRAFT (PWC) PROHIBITED
0.388	0.460	CURB	LEFT	
0.389	0.389	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.396	0.396	SIGN	RIGHT	GUIDE, UNATTENDED BOATS AND TRAILERS LEFT OVER 24 HOURS WILL BE IMPOUNDED
0.423	0.423	SIGN	RIGHT	GUIDE, DAY USE FEE REQUIRED

ROUTE 0101: BRANDY CREEK MARINA ROAD

FROM	TO			
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.427	0.427	INTERSECTION	RIGHT	ROUTE 0922 (BRANDY CREEK MARINA PARKING)
0.433	0.435	CURB	RIGHT	
0.438	0.438	INTERSECTION	RIGHT	ROUTE 0922 (BRANDY CREEK MARINA PARKING)
0.445	0.448	CURB	RIGHT	
0.450	0.450	INTERSECTION	RIGHT	ROUTE 0922 (BRANDY CREEK MARINA PARKING)
0.457	0.460	CURB	RIGHT	
0.460	0.460	INTERSECTION	LEFT	ROUTE 0922 (BRANDY CREEK MARINA PARKING)
0.460	0.460	INTERSECTION	N/A	ROUTE 0922 (BRANDY CREEK MARINA PARKING)
0.460	0.460	INTERSECTION	RIGHT	ROUTE 0922 (BRANDY CREEK MARINA PARKING)
0.460	0.460	ROUTE END	N/A	TO ROUTE 0922 (BRANDY CREEK MARINA PARKING)

ROUTE 0103: OAK BOTTOM BEACH ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE HIGHWAY 299
0.000	0.000	INTERSECTION	LEFT	STATE HIGHWAY 229
0.000	0.000	INTERSECTION	RIGHT	STATE HIGHWAY 229
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.008	0.030	CURB	LEFT	
0.012	0.036	CURB	RIGHT	
0.026	0.026	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.056	0.056	SIGN	RIGHT	GUIDE, DAY USE FEE REQUIRED
0.068	0.068	INTERSECTION	RIGHT	UNPAVED ROUTE
0.082	0.082	SIGN	RIGHT	GUIDE, REDDING WHISKEYTOWN CARE POWERHOUSE TOWER HOUSE HISTORIC DISTRICT
0.118	0.118	SIGN	RIGHT	GUIDE, ALCOHOLIC BEVERAGES PROHIBITED AT SWIM BEACHES AND PICNIC AREAS
0.122	0.159	CURB	LEFT	
0.125	0.174	CURB	RIGHT	
0.135	0.135	CULVERT	N/A	
0.143	0.143	SIGN	RIGHT	GUIDE, PERSONAL WATERCRAFT (PWC) PROHIBITED
0.175	0.175	SIGN	RIGHT	GUIDE, ALL CAMPERS STOP AT CAMPGROUND STORE DAY USE FEE REQUIRED
0.184	0.184	INTERSECTION	RIGHT	UNPAVED PARKING
0.224	0.273	CURB	RIGHT	
0.231	0.231	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.232	0.232	INTERSECTION	LEFT	ROUTE 0930 (OAK BOTTOM CAMPGROUND STORE PARKING)
0.248	0.248	SIGN	LEFT	GUIDE, OAK BOTTOM CAMPGROUND STORE
0.263	0.263	CULVERT	N/A	
0.271	0.271	SIGN	RIGHT	GUIDE, AMPHITHEATER KAYAK TOURS
0.271	0.271	SIGN	RIGHT	GUIDE, LAUNCH RAMP BEACH MARINA RV CAMP CAMPGROUND
0.276	0.276	INTERSECTION	LEFT	ROUTE 0104 (OAK BOTTOM MARINA ROAD)
0.276	0.276	INTERSECTION	RIGHT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.283	0.283	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.284	0.433	CURB	LEFT	
0.300	0.300	INTERSECTION	RIGHT	ROUTE 0934 (OAK BOTTOM R.V. DUMP STATION PARKING)
0.306	0.306	SIGN	RIGHT	GUIDE, AMPHITHEATER
0.306	0.306	SIGN	RIGHT	GUIDE, EXIT STORE CAMPGROUND MARINA RV CAMP

ROUTE 0103: OAK BOTTOM BEACH ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.337	0.337	INTERSECTION	RIGHT	ROUTE 0934 (OAK BOTTOM R.V. DUMP STATION PARKING)
0.410	0.410	SIGN	RIGHT	GUIDE, LAUNCH RAMP BEACH
0.426	0.426	CULVERT	N/A	
0.439	0.439	INTERSECTION	LEFT	ROUTE 0933 (OAK BOTTOM LAUNCH RAMP)
0.444	0.444	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.450	0.450	SIGN	RIGHT	REGULATORY, KEEP RIGHT
0.450	0.450	INTERSECTION	N/A	ROUTE 0931 (OAK BOTTOM BEACH PARKING)
0.450	0.450	INTERSECTION	RIGHT	ROUTE 0931 (OAK BOTTOM BEACH PARKING)
0.450	0.450	ROUTE END	N/A	TO ROUTE 0931 (OAK BOTTOM BEACH PARKING)

ROUTE 0104: OAK BOTTOM MARINA ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.28 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0103 (OAK BOTTOM BEACH ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0103 (OAK BOTTOM BEACH ROAD)
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.006	0.019	CURB	RIGHT	
0.008	0.008	INTERSECTION	LEFT	ROUTE 0930 (OAK BOTTOM CAMPGROUND STORE PARKING)
0.020	0.020	INTERSECTION	RIGHT	ROUTE 0933 (OAK BOTTOM LAUNCH RAMP)
0.030	0.050	CURB	RIGHT	
0.031	0.031	INTERSECTION	LEFT	ROUTE 0941 (OAK BOTTOM CAMPGROUND STORE EMPLOYEE PARKING)
0.036	0.036	INTERSECTION	LEFT	ROUTE 0942 (RESIDENCE 302 AND 303 PARKING)
0.041	0.041	SIGN	RIGHT	GUIDE, CAMPGROUND LAUNCH RAMP BEACH EXIT STORE
0.055	0.055	INTERSECTION	RIGHT	ROUTE 0932 (OAK BOTTOM R.V. CAMP PARKING)
0.116	0.116	SIGN	RIGHT	GUIDE, AMPHITHEATER MARINA RV CAMP
0.172	0.172	DROP INLET	RIGHT	
0.177	0.177	INTERSECTION	RIGHT	ROUTE 0932 (OAK BOTTOM R.V. CAMP PARKING)
0.183	0.183	SIGN	RIGHT	REGULATORY, ONE WAY
0.183	0.183	SIGN	LEFT	REGULATORY, ONE WAY
0.193	0.193	SIGN	RIGHT	GUIDE, LAUNCH RAMP CAMPGROUND RV CAMPGROUND
0.201	0.201	SIGN	RIGHT	GUIDE, MARINA SERVICE HOURS 9 AM - 5 PM AMPHITHEATER
0.204	0.204	GATE	N/A	VERTICAL BARS WITH DIAMOND SHAPES BETWEEN
0.277	0.280	CURB-AND-GUTTER	LEFT	
0.278	0.278	SIGN	LEFT	GUIDE, AMPHITHEATER MARINA
0.280	0.280	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.280	0.280	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.280	0.280	INTERSECTION	N/A	ROUTE 0935 (OAK BOTTOM MARINA PARKING)
0.280	0.280	ROUTE END	N/A	TO ROUTE 0935 (OAK BOTTOM MARINA PARKING)

ROUTE 0105: TOWER HOUSE FOOTBRIDGE ACCESS ROAD

FROM	TO		CIDE	COMMENTS
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE HIGHWAY 299
0.000	0.000	INTERSECTION	LEFT	STATE HIGHWAY 299
0.000	0.000	INTERSECTION	RIGHT	STATE HIGHWAY 299
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.006	0.006	SIGN	RIGHT	REGULATORY, NO PARKING TOW AWAY ZONE
0.006	0.006	SIGN	RIGHT	GUIDE, SERVICE ROAD KEEP OUT
0.008	0.008	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
0.010	0.010	GATE	N/A	
0.064	0.064	INTERSECTION	RIGHT	UNPAVED ROUTE
0.068	0.068	SIGN	RIGHT	GUIDE, PEDESTRIANS ONLY
0.070	0.070	INTERSECTION	N/A	ROUTE 0105 (TOWER HOUSE FOOTBRIDGE ACCESS ROAD)
0.070	0.070	ROUTE END	N/A	TO END

ROUTE 0201: N.E.E.D. CAMP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0256 (PAIGE BAR ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 5201 (PAIGE BAR ROAD)
0.006	0.006	INTERSECTION	LEFT	ROUTE 0256 (PAIGE BAR ROAD)
0.018	0.022	CURB	RIGHT	
0.019	0.019	SIGN	RIGHT	GUIDE, N.E.E.D. CAMP
0.031	0.031	SIGN	RIGHT	WARNING, ONE LANE BRIDGE
0.033	0.033	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.041	0.041	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.048	0.048	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.050	0.050	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.053	0.173	CURB	LEFT	
0.057	0.057	INTERSECTION	LEFT	ROUTE 0944 (GUARDIAN ROCK TRAILHEAD PKG)
0.066	0.066	SIGN	RIGHT	GUIDE, WHISKEYTOWN ENVIRONMENTAL SCHOOL AUTHORIZED VISITORS ONLY
0.066	0.066	SIGN	RIGHT	REGULATORY, AFTER STOP PROCEED WHEN CLEAR
0.066	0.066	SIGN	RIGHT	REGULATORY, STOP
0.066	0.074	GUARD/GUIDE RAIL	LEFT	
0.066	0.066	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.070	0.070	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.074	0.125	GUARD/GUIDE RAIL	RIGHT	
0.074	0.125	GUARD/GUIDE RAIL	LEFT	
0.074	0.124	BRIDGE	N/A	8750-001 (CLEAR CREEK BRIDGE)
0.074	0.074	GATE	N/A	
0.124	0.133	GUARD/GUIDE RAIL	RIGHT	
0.124	0.131	GUARD/GUIDE RAIL	LEFT	
0.126	0.130	CURB	RIGHT	
0.133	0.133	SIGN	RIGHT	REGULATORY, AFTER STOP PROCEED WHEN CLEAR
0.133	0.133	SIGN	RIGHT	REGULATORY, STOP
0.153	0.153	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.175	0.175	SIGN	RIGHT	WARNING, ONE LANE BRIDGE
0.192	0.192	INTERSECTION	LEFT	PAVED PARKING (N.E.E.D. CAMP OVER FLOW PARKING)
0.198	0.198	SIGN	RIGHT	GUIDE, PLANTED AREA CLOSED TO VEHICLES
0.209	0.209	SIGN	RIGHT	GUIDE, PLANTED AREA CLOSED TO VEHICLES
0.212	0.212	INTERSECTION	LEFT	UNPAVED ROUTE

ROUTE 0201: N.E.E.D. CAMP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.219	0.219	SIGN	RIGHT	GUIDE, AMPHITHEATER
0.255	0.255	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.264	0.264	CULVERT	N/A	
0.270	0.270	SIGN	RIGHT	REGULATORY, NO PARKING
0.270	0.270	SIGN	N/A	GUIDE, ONE WAY
0.270	0.270	INTERSECTION	N/A	ROUTE 0914 (N.E.E.D. CAMP PARKING)
0.270	0.270	ROUTE END	N/A	TO ROUTE 0914 (N.E.E.D. CAMP PARKING)

ROUTE 0205: BRANDY CREEK MARINA R.V. CAMPGROUND

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0101 (BRANDY CREEK MARINA ROAD) AT MP 0.29 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0101 (BRANDY CREEK MARINA ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0101 (BRANDY CREEK MARINA ROAD)
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.006	0.009	PAVED DITCH	LEFT	
0.009	0.066	PAVED DITCH	RIGHT	
0.009	0.009	GATE	N/A	VERTICAL BARS WITH HORIZONTAL BARS IN MIDDLE
0.023	0.023	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.023	0.023	SIGN	RIGHT	WARNING, DEAD END
0.104	0.104	SIGN	RIGHT	GUIDE, BRANDY CREEK RV CAMP SELECT AND OCCUPY SITE FIRST, THEN PURCHASE PERMIT AHEAD
0.109	0.109	SIGN	LEFT	GUIDE, NO GROUND FIRES
0.115	0.115	SIGN	RIGHT	GUIDE, SELF-CONTAINED UNITS ONLY
0.124	0.124	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.130	0.130	INTERSECTION	LEFT	ROUTE 0924A (BRANDY CREEK R.V. PARKING A)
0.140	0.166	CURB-AND-GUTTER	RIGHT	
0.141	0.167	PULLOUT	RIGHT	
0.141	0.141	SIGN	RIGHT	GUIDE, PAY HERE
0.146	0.149	CURB-AND-GUTTER	LEFT	
0.150	0.150	SIGN	RIGHT	GUIDE, TURN ON RED VALVE FOR WATER TURN OFF RED VALVE WHEN FINISHED TO PREVENT FREEZING
0.150	0.150	SIGN	RIGHT	GUIDE, CLEAN WATER
0.157	0.157	SIGN	RIGHT	GUIDE, TURN ON RED VALVE FOR WATER TURN OFF RED VALVE WHEN FINISHED TO PREVENT FREEZING
0.157	0.157	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.158	0.161	CURB-AND-GUTTER	LEFT	
0.182	0.182	INTERSECTION	LEFT	ROUTE 0924B (BRANDY CREEK R.V. PARKING B)
0.209	0.212	CURB-AND-GUTTER	LEFT	
0.237	0.240	CURB-AND-GUTTER	LEFT	
0.249	0.249	INTERSECTION	LEFT	ROUTE 0924C (BRANDY CREEK R.V. PARKING C)
0.260	0.262	CURB-AND-GUTTER	LEFT	
0.270	0.309	PAVED DITCH	RIGHT	
0.291	0.323	PAVED DITCH	LEFT	
0.325	0.325	INTERSECTION	RIGHT	ROUTE 0924D (BRANDY CREEK R.V. PARKING D)

ROUTE 0205: BRANDY CREEK MARINA R.V. CAMPGROUND

FROM	TO			
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.338	0.350	CURB-AND-GUTTER	RIGHT	
0.340	0.348	PULLOUT	RIGHT	
0.346	0.377	LANE DEVIATION	N/A	
0.363	0.363	INTERSECTION	RIGHT	ROUTE 0924E (BRANDY CREEK R.V. PARKING E)
0.378	0.391	PAVED DITCH	LEFT	
0.391	0.395	PAVED DITCH	LEFT	
0.420	0.420	INTERSECTION	N/A	ROUTE 0205 (BRANDY CREEK MARINA R.V. CAMPGROUND)
0.420	0.420	SIGN	LEFT	REGULATORY, NO PARKING
0.420	0.420	SIGN	RIGHT	REGULATORY, NO PARKING
0.420	0.420	ROUTE END	N/A	TO END

ROUTE 0206: DRY CREEK CAMPGROUND

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (SOUTH SHORE DRIVE EAST)
0.000	0.000	INTERSECTION	N/A	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.007	0.007	INTERSECTION	LEFT	ROUTE 0206 (DRY CREEK CAMPGROUND) SPUR
0.010	0.010	CULVERT	N/A	
0.011	0.011	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.020	0.020	INTERSECTION	LEFT	ROUTE 0206 (DRY CREEK CAMPGROUND) SPUR
0.024	0.024	CULVERT	N/A	
0.028	0.028	SIGN	LEFT	GUIDE, DRY CREEK GROUP CAMPGROUND DO NOT ENTER WITHOUT RESERVATION
0.029	0.029	GATE	N/A	VERTICAL BARS BETWEEN TWO HORIZONTAL BARS
0.118	0.118	CULVERT	N/A	
0.133	0.133	CULVERT	N/A	
0.190	0.190	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.190	0.190	SIGN	LEFT	GUIDE, DRY CREEK GROUP CAMPGROUND
0.190	0.190	INTERSECTION	N/A	ROUTE 0938 (DRY CREEK CAMPGROUND PARKING)
0.190	0.190	ROUTE END	N/A	TO ROUTE 0938 (DRY CREEK CAMPGROUND PARKING)

ROUTE 0209: CARR POWERHOUSE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE HIGHWAY 299
0.000	0.000	INTERSECTION	LEFT	STATE HIGHWAY 299
0.000	0.000	INTERSECTION	RIGHT	STATE HIGHWAY 299
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.029	0.029	SIGN	RIGHT	GUIDE, WEAVERVILLE REDDING
0.043	0.043	SIGN	RIGHT	GUIDE, CAMP IN DESIGNATED SITES OBTAIN PERMIT AT VISITOR CENTER
0.066	0.066	INTERSECTION	LEFT	ROUTE 0211 (CARR LAKE ACCESS ROAD)
0.149	0.149	SIGN	RIGHT	GUIDE, CLEAR CREEK
0.152	0.152	SIGN	RIGHT	REGULATORY, NO FISHING FROM BRIDGE
0.153	0.190	GUARD/GUIDE RAIL	LEFT	
0.153	0.190	GUARD/GUIDE RAIL	RIGHT	
0.155	0.187	BRIDGE	N/A	A BIP Structure Number has not been assigned to this Bridge
0.194	0.194	SIGN	RIGHT	GUIDE, CLEAR CREEK
0.203	0.203	INTERSECTION	RIGHT	UNPAVED ROUTE
0.208	0.208	CULVERT	N/A	
0.275	0.275	CULVERT	N/A	
0.333	0.333	SIGN	RIGHT	GUIDE, CLEAR CREEK VISTA TRAIL
0.365	0.365	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.416	0.416	CULVERT	N/A	
0.448	0.448	INTERSECTION	RIGHT	ROUTE 0405 (CARR POWERHOUSE SERVICE ROAD)
0.464	0.464	CULVERT	N/A	
0.510	0.510	SIGN	RIGHT	GUIDE, MILL CREEK ROAD AND TRAIL BOULDER CREEK TRAIL AND FALLS
0.528	0.528	INTERSECTION	LEFT	UNPAVED ROUTE
0.548	0.548	INTERSECTION	RIGHT	UNPAVED ROUTE
0.558	0.558	INTERSECTION	LEFT	UNPAVED ROUTE
0.573	0.573	INTERSECTION	LEFT	UNPAVED ROUTE
0.600	0.600	SIGN	RIGHT	GUIDE, MILL CREEK ROAD AND TRAIL BOULDER CREEK TRAIL AND FALLS
0.632	0.632	INTERSECTION	LEFT	ROUTE 0925 (CARR PICNIC AREA PARKING)
0.635	0.635	SIGN	LEFT	GUIDE, NO CAMPING
0.666	0.666	CULVERT	N/A	
0.711	0.760	CURB	RIGHT	
0.713	0.713	INTERSECTION	LEFT	ROUTE 0925 (CARR PICNIC AREA PARKING)

ROUTE 0209: CARR POWERHOUSE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.729	0.729	CULVERT	N/A	
0.740	0.740	INTERSECTION	LEFT	PAVED ROUTE (POWER PLANT / GATED AREA)
0.811	0.811	INTERSECTION	LEFT	PAVED ROUTE (POWER PLANT / GATED AREA)
0.820	0.820	SIGN	LEFT	REGULATORY, DANGER STRONG VARIABLE CURRENT WATER MAY RISE RAPIDLY WITHOUT WARNING
0.820	0.820	SIGN	LEFT	REGULATORY, NO WADING OR SWIMMING
0.833	0.863	PULLOUT	RIGHT	
0.836	0.836	SIGN	LEFT	REGULATORY, DANGER STRONG VARIABLE CURRENT WATER MAY RISE RAPIDLY WITHOUT WARNING
0.852	0.852	SIGN	LEFT	REGULATORY, DANGER STRONG VARIABLE CURRENT WATER MAY RISE RAPIDLY WITHOUT WARNING
0.902	0.902	CULVERT	N/A	
1.098	1.098	CULVERT	N/A	
1.100	1.100	INTERSECTION	LEFT	ROUTE 0152 (SOUTH SHORE DRIVE WEST)
1.100	1.100	INTERSECTION	N/A	PAVED ROUTE (WESTERN AREA POWER ADMINISTRATION /GATED AREA)
1.100	1.100	GATE	N/A	
1.100	1.100	ROUTE END	N/A	TO ROUTE 0152 (SOUTH SHORE DRIVE WEST)

ROUTE 0211: CARR LAKE ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.07 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0209 (CARR POWERHOUSE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0209 (CARR POWERHOUSE ROAD)
0.020	0.020	CULVERT	N/A	
0.021	0.021	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.021	0.021	SIGN	RIGHT	GUIDE, DAY USE FEE REQUIRED
0.034	0.034	CULVERT	N/A	
0.045	0.045	SIGN	RIGHT	WARNING, DEAD END
0.098	0.098	INTERSECTION	RIGHT	UNPAVED ROUTE
0.112	0.112	CULVERT	N/A	
0.196	0.196	CULVERT	N/A	
0.332	0.332	CULVERT	N/A	
0.354	0.354	INTERSECTION	RIGHT	UNPAVED ROUTE
0.390	0.390	CULVERT	N/A	
0.438	0.438	INTERSECTION	RIGHT	UNPAVED ROUTE
0.469	0.469	INTERSECTION	RIGHT	UNPAVED ROUTE
0.500	0.500	INTERSECTION	N/A	ROUTE 0211 (CARR LAKE ACCESS ROAD)
0.500	0.500	ROUTE END	N/A	TO END

ROUTE 0215: OAK BOTTOM CAMPGROUND LOOP A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0103 (OAK BOTTOM BEACH ROAD) AT MP 0.28 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0103 (OAK BOTTOM BEACH ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0103 (OAK BOTTOM BEACH ROAD)
0.014	0.014	SIGN	RIGHT	GUIDE, NOTICE REGISTERED CAMPERS ONLY
0.019	0.019	INTERSECTION	LEFT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.020	0.020	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.026	0.026	SIGN	LEFT	WARNING, BEAR COUNTRY
0.027	0.027	SIGN	LEFT	GUIDE, PARK BETWEEN WHITE LINES ONLY
0.027	0.027	SIGN	LEFT	GUIDE, REGISTER HERE
0.027	0.027	SIGN	LEFT	REGULATORY, CAMPERS REQUIRED TO PAY DAY USE FEE
0.027	0.027	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.027	0.027	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.045	0.045	INTERSECTION	RIGHT	ROUTE 0936A (OAK BOTTOM CAMPGROUND PARKING A)
0.056	0.056	CULVERT	N/A	
0.061	0.061	INTERSECTION	LEFT	ROUTE 0216 (OAK BOTTOM CAMPGROUND LOOP B)
0.082	0.082	INTERSECTION	RIGHT	UNPAVED PARKING
0.173	0.173	INTERSECTION	LEFT	ROUTE 0936B (OAK BOTTOM CAMPGROUND PARKING B)
0.201	0.201	INTERSECTION	RIGHT	UNPAVED ROUTE (SERVICE ROAD)
0.209	0.209	SIGN	RIGHT	GUIDE, SERVICE VEHICLES ONLY
0.239	0.239	INTERSECTION	LEFT	ROUTE 0936C (OAK BOTTOM CAMPGROUND PARKING C)
0.263	0.263	INTERSECTION	LEFT	ROUTE 0936E (OAK BOTTOM CAMPGROUND PARKING E)
0.279	0.279	INTERSECTION	RIGHT	ROUTE 0936D (OAK BOTTOM CAMPGROUND PARKING D)
0.293	0.293	INTERSECTION	LEFT	ROUTE 0936E (OAK BOTTOM CAMPGROUND PARKING E)
0.352	0.352	INTERSECTION	LEFT	ROUTE 0936F (OAK BOTTOM CAMPGROUND PARKING F)
0.376	0.376	SIGN	LEFT	GUIDE, NO VEHICLE TRAFFIC
0.376	0.376	SIGN	LEFT	WARNING, UNABLE TO READ FROM VIDEO
0.416	0.416	INTERSECTION	LEFT	ROUTE 0936G (OAK BOTTOM CAMPGROUND PARKING G)
0.451	0.451	INTERSECTION	LEFT	ROUTE 0216 (OAK BOTTOM CAMPGROUND LOOP B)
0.501	0.501	SIGN	RIGHT	REGULATORY, YIELD
0.510	0.510	INTERSECTION	RIGHT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.510	0.510	INTERSECTION	LEFT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.510	0.510	ROUTE END	N/A	TO END OF LOOP

ROUTE 0216: OAK BOTTOM CAMPGROUND LOOP B

FROM	TO			
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.06 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.050	0.050	INTERSECTION	LEFT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.050	0.050	INTERSECTION	RIGHT	ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A)
0.050	0.050	ROUTE END	N/A	TO ROUTE 0215 (OAK BOTTOM CAMPGROUND LOOP A) AT MP 0.45 (ON LEFT)

ROUTE 0220: WHISKEY CREEK GROUP PICNIC ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5000 (WHISKEY CREEK ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5000 (WHISKEY CREEK ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 5000 (WHISKEY CREEK ROAD)
0.038	0.038	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.055	0.055	SIGN	RIGHT	WARNING, NOT A THROUGH STREET
0.133	0.133	INTERSECTION	LEFT	UNPAVED ROUTE
0.189	0.189	INTERSECTION	RIGHT	UNPAVED ROUTE
0.269	0.269	SIGN	RIGHT	WARNING, CAUTION OBSTRUCTION 500 FT
0.288	0.315	CURB	RIGHT	
0.300	0.300	CULVERT	N/A	
0.306	0.306	INTERSECTION	LEFT	UNPAVED ROUTE
0.334	0.334	INTERSECTION	RIGHT	UNPAVED ROUTE
0.338	0.338	SIGN	RIGHT	GUIDE, AREA CLOSED BEYOND THIS POINT PERMIT HOLDERS ONLY
0.368	0.368	GATE	N/A	VERTICAL BARS BETWEEN HORIZONTAL BARS
0.368	0.368	SIGN	RIGHT	GUIDE, NOTICE GROUP PICNIC AREA DO NOT ENTER WITHOUT RESERVATION
0.374	0.374	INTERSECTION	LEFT	UNPAVED ROUTE
0.436	0.436	SIGN	RIGHT	WARNING, CAUTION OBSTRUCTION 500 FT
0.452	0.452	CULVERT	N/A	
0.498	0.498	CULVERT	N/A	
0.647	0.647	CULVERT	N/A	
0.761	0.761	SIGN	RIGHT	GUIDE, GROUP PICNIC AREA 0.6 MI
0.775	0.775	SIGN	RIGHT	GUIDE, PRIVATE RESIDENCE AREA CLOSED
0.777	0.777	INTERSECTION	RIGHT	UNPAVED PARKING
0.778	0.778	CULVERT	N/A	
0.891	0.891	SIGN	RIGHT	REGULATORY, SPEED LIMIT 20
0.896	0.896	INTERSECTION	LEFT	UNPAVED ROUTE
0.915	0.915	CULVERT	N/A	
1.365	1.365	SIGN	LEFT	GUIDE, PICNIC AREA CLOSED AT DARK
1.365	1.365	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
1.370	1.370	INTERSECTION	N/A	ROUTE 0945 (WHISKEY CREEK GROUP PICNIC AREA PKG.)
1.370	1.370	ROUTE END	N/A	TO UNPAVED PARKING

ROUTE 0221: CRYSTAL CREEK CAMP ACCESS ROAD

0,000	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.004 GATE N/A VERTICAL BARS BETWEEN TWO HORIZONTAL BARS 0.141 0.141 CULVERT N/A 0.196 0.196 CULVERT N/A 0.240 0.292 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.260 0.267 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.262 0.262 CULVERT N/A 0.366 0.378 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.372 0.372 CULVERT N/A 0.443 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.450 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.669 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUI	0.000			N/A	
0.141 0.141 CULVERT N/A 0.196 0.196 CULVERT N/A 0.240 0.292 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.260 0.267 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.262 0.262 CULVERT N/A 0.366 0.378 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.372 0.372 CULVERT N/A 0.423 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 0.598 CULVERT N/A 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.802 CULVERT N/A <td>0.000</td> <td>0.000</td> <td>INTERSECTION</td> <td>N/A</td> <td>ROUTE 5221 (CRYSTAL CREEK ROAD)</td>	0.000	0.000	INTERSECTION	N/A	ROUTE 5221 (CRYSTAL CREEK ROAD)
0.196 CULVERT N/A 0.240 0.292 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.260 0.267 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.262 0.262 CULVERT N/A 0.366 0.378 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.372 0.372 CULVERT N/A 0.423 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.862 0.862 CULVERT N/A 0.994 0.918	0.004	0.004	GATE	N/A	VERTICAL BARS BETWEEN TWO HORIZONTAL BARS
0.240 0.292 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.260 0.267 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.262 0.262 CULVERT N/A 0.366 0.378 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.372 0.372 CULVERT N/A 0.443 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.589 0.598 CULVERT N/A 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE	0.141	0.141	CULVERT	N/A	
0.260 0.267 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.262 0.262 CULVERT N/A 0.366 0.378 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.372 0.372 CULVERT N/A 0.423 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 CULVERT N/A METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.666 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 INTERSECTION LEFT UNPAYED ROUTE 0.806 CULVERT N/A 0.994 CULVERT N/A	0.196	0.196	CULVERT	N/A	
0.262 O.262 CULVERT N/A 0.366 0.378 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.372 0.372 CULVERT N/A 0.423 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 0.598 CULVERT N/A 0.669 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.766 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.806 0.783 GUARD/GUIDE RAIL LEFT UNPAVED ROUTE 0.806 0.806 CULVERT N/A 0.918 O.918 CU	0.240	0.292	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.366 0.378 GUARD/GUIDE RAIL RIGHT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.372 0.372 CULVERT N/A 0.423 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 0.598 CULVERT N/A 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT UNPAVED ROUTE 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.918 0.918 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.043 1.043	0.260	0.267	GUARD/GUIDE RAIL	RIGHT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.372 CULVERT N/A 0.423 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 CULVERT N/A 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.043 1.043 INTERSECTION LEFT GUIDE, CRYSTAL CREEK CAMPGROUND	0.262	0.262	CULVERT	N/A	
0.423 0.438 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 0.598 CULVERT N/A 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.680 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.806 0.806 CULVERT N/A 0.984 CULVERT N/A 0.984 CULVERT N/A 1.041 SIGN LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.043 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRU	0.366	0.378	GUARD/GUIDE RAIL	RIGHT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.460 0.460 CULVERT N/A 0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 0.598 CULVERT N/A 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 CULVERT N/A 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.043 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.043 1.043 INTERSECTION LEFT ROUTE GENERAL CABLE STRU	0.372	0.372	CULVERT	N/A	
0.513 0.553 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 0.598 CULVERT N/A 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.9862 0.862 CULVERT N/A 0.984 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 GUARD/GUIDE RAIL LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE ORZES (CRYS	0.423	0.438	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.580 0.655 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.598 0.598 CULVERT N/A 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 0.918 CULVERT N/A 0.984 0.984 CULVERT N/A 1.041 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.043 1.043 INTERSECTION LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.048 1.056 GUARD/GUIDE WALL LEFT ROUTE 0222 (CRYSTAL CREEK CAMP GROUND ROAD)	0.460	0.460	CULVERT	N/A	
0.598 0.598 CULVERT N/A 0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 CULVERT N/A 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 GUARD/GUIDE RAIL LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT	0.513	0.553	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.659 0.676 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 CULVERT N/A 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 GUARD/GUIDE RAIL LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.042 1.043 1.045 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.149 1.203 CULVERT N/A </td <td>0.580</td> <td>0.655</td> <td>GUARD/GUIDE RAIL</td> <td>LEFT</td> <td>METAL FENCE WITH WIRE CABLE STRUNG THROUGH</td>	0.580	0.655	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.686 0.733 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 O.918 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A <td>0.598</td> <td>0.598</td> <td>CULVERT</td> <td>N/A</td> <td></td>	0.598	0.598	CULVERT	N/A	
0.765 0.782 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 0.918 CULVERT N/A 0.984 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 SIGN	0.659	0.676	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.805 0.805 INTERSECTION LEFT UNPAVED ROUTE 0.862 0.862 CULVERT N/A 0.918 0.918 CULVERT N/A 0.984 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	0.686	0.733	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.862 0.862 CULVERT N/A 0.918 0.918 CULVERT N/A 0.984 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	0.765	0.782	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
0.918 0.918 CULVERT N/A 0.984 0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	0.805	0.805	INTERSECTION	LEFT	UNPAVED ROUTE
0.984 CULVERT N/A 1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	0.862	0.862	CULVERT	N/A	
1.034 1.041 GUARD/GUIDE RAIL LEFT METAL FENCE WITH WIRE CABLE STRUNG THROUGH 1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	0.918	0.918	CULVERT	N/A	
1.041 1.041 SIGN LEFT GUIDE, CRYSTAL CREEK CAMP GROUND 1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	0.984	0.984	CULVERT	N/A	
1.043 1.043 INTERSECTION LEFT ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD) 1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.034	1.041	GUARD/GUIDE RAIL	LEFT	METAL FENCE WITH WIRE CABLE STRUNG THROUGH
1.048 1.056 GUARD/GUIDE WALL LEFT 1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.041	1.041	SIGN	LEFT	GUIDE, CRYSTAL CREEK CAMP GROUND
1.148 1.148 CULVERT N/A 1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.043	1.043	INTERSECTION	LEFT	ROUTE 0222 (CRYSTAL CREEK CAMPGROUND ROAD)
1.185 1.189 GUARD/GUIDE WALL LEFT 1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.048	1.056	GUARD/GUIDE WALL	LEFT	
1.203 1.203 CULVERT N/A 1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.148	1.148	CULVERT	N/A	
1.215 1.216 GUARD/GUIDE WALL LEFT 1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.185	1.189	GUARD/GUIDE WALL	LEFT	
1.274 1.274 CULVERT N/A 1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.203	1.203	CULVERT	N/A	
1.348 1.348 CULVERT N/A 1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.215	1.216	GUARD/GUIDE WALL	LEFT	
1.349 1.349 SIGN RIGHT GUIDE, ELEV 2000 FT	1.274	1.274	CULVERT	N/A	
	1.348	1.348	CULVERT	N/A	
1.388 1.388 CULVERT N/A	1.349	1.349	SIGN	RIGHT	GUIDE, ELEV 2000 FT
	1.388	1.388	CULVERT	N/A	

ROUTE 0221: CRYSTAL CREEK CAMP ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.420	1.420	CULVERT	N/A	
1.443	1.502	GUARD/GUIDE RAIL	LEFT	
1.530	1.530	CULVERT	N/A	
1.572	1.572	CULVERT	N/A	
1.582	1.582	SIGN	RIGHT	GUIDE, PARK OFF PAVEMENT
1.590	1.597	GUARD/GUIDE RAIL	RIGHT	
1.594	1.594	CULVERT	N/A	
1.645	1.645	SIGN	LEFT	GUIDE, PARK OFF PAVEMENT
1.647	1.647	INTERSECTION	LEFT	UNPAVED PARKING
1.661	1.661	SIGN	RIGHT	WARNING, ICY
1.661	1.661	SIGN	RIGHT	GUIDE, PARK OFF PAVEMENT
1.661	1.661	SIGN	RIGHT	GUIDE, PARK OFF PAVEMENT
1.677	1.677	SIGN	RIGHT	GUIDE, PARK OFF PAVEMENT
1.770	1.770	CULVERT	N/A	
1.774	1.774	SIGN	RIGHT	GUIDE, CRYSTAL CREEK CAMP 3 COGGINS PARK 70 SHASTA RALLY 150
1.777	1.777	SIGN	LEFT	GUIDE, W 40 COGGINS PARK 70 SHASTA RALLY 149
1.778	1.778	INTERSECTION	RIGHT	ROUTE 0251 (CRYSTAL CREEK ROAD)
1.786	1.786	GATE	N/A	
1.786	1.786	SIGN	N/A	REGULATORY, STOP
1.817	1.817	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
1.869	1.869	CULVERT	N/A	
1.875	1.875	SIGN	LEFT	GUIDE, CRYSTAL CREEK REGIONAL BOYS CAMP
1.877	1.877	SIGN	RIGHT	GUIDE, GROWING OLD IS MANDATORY GROWING UP IS OPTIONAL
1.907	1.907	SIGN	RIGHT	GUIDE, WELCOME VISITORS PARKING
1.922	1.922	INTERSECTION	LEFT	UNPAVED PARKING
1.929	1.929	SIGN	LEFT	REGULATORY, VISITOR PARKING
1.929	1.929	SIGN	LEFT	GUIDE, NOTICE IT IS ILLEGAL TO BRING, SEND, PROVIDE, OR POSSESS CONTROLLED SUBSTANCES, FIREARMS, WEAPONS, E
1.970	1.970	INTERSECTION	N/A	ROUTE 0221 (CRYSTAL CREEK CAMP ACCESS ROAD)
1.970	1.970	ROUTE END	N/A	TO END OF BRIDGE

ROUTE 0400: HEADQUARTERS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	INTERSECTION	LEFT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.010	0.010	GATE	N/A	
0.021	0.021	INTERSECTION	RIGHT	UNPAVED PARKING
0.031	0.031	INTERSECTION	LEFT	ROUTE 0902A (PARK HEADQUARTERS EMPLOYEE PARKING A)
0.037	0.037	SIGN	LEFT	GUIDE, BUCKLE UP FOR SAFETY
0.037	0.037	SIGN	RIGHT	GUIDE, ADMINISTRATIVE OFFICE
0.041	0.041	SIGN	RIGHT	GUIDE, VISITOR PARKING
0.044	0.044	INTERSECTION	RIGHT	ROUTE 0901 (PARK HEADQUARTERS VISITOR PARKING)
0.060	0.060	INTERSECTION	RIGHT	ROUTE 0902B (PARK HEADQUARTERS EMPLOYEE PARKING B)
0.072	0.072	GATE	N/A	
0.072	0.072	INTERSECTION	LEFT	ROUTE 0904 (MAINTENANCE YARD)
0.104	0.104	INTERSECTION	RIGHT	ROUTE 0905 (HEADQUARTERS ADMINISTRATIVE PARKING)
0.110	0.110	INTERSECTION	RIGHT	ROUTE 0907 (HEADQUARTERS GOVERNMENT CAR PARKING)
0.123	0.123	INTERSECTION	LEFT	ROUTE 0904 (MAINTENANCE YARD)
0.139	0.139	FIRE HYDRANT	LEFT	
0.145	0.145	INTERSECTION	RIGHT	PAVED PARKING (FUEL STATION)
0.188	0.210	CURB	RIGHT	
0.207	0.207	INTERSECTION	LEFT	UNPAVED PARKING
0.232	0.232	INTERSECTION	LEFT	ROUTE 0415 (GOVERNMENT BOAT LAUNCH LOOP)
0.240	0.240	INTERSECTION	N/A	ROUTE 0415 (GOVERNMENT BOAT LAUNCH LOOP)
0.240	0.240	ROUTE END	N/A	TO ROUTE 0415 (GOVERNMENT BOAT LAUNCH LOOP)

ROUTE 0401: N.E.E.D. CAMP RESIDENCE ROAD

FROM	TO		CIDE	COMMENT
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0914 (N.E.E.D. CAMP PARKING)
0.000	0.000	SIGN	LEFT	GUIDE, ONE WAY
0.000	0.000	INTERSECTION	LEFT	ROUTE 0914 (N.E.E.D. CAMP PARKING)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0914 (N.E.E.D. CAMP PARKING)
0.004	0.004	SIGN	RIGHT	GUIDE, ADMINISTRATIVE OFFICE
0.007	0.007	SIGN	RIGHT	GUIDE, SERVICE ROAD ONLY
0.058	0.058	FIRE HYDRANT	LEFT	
0.059	0.059	INTERSECTION	RIGHT	ROUTE 0915 (N.E.E.D. CAMP CAFETERIA ACCESS PARKING)
0.084	0.084	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 22T 36T 59T
0.085	0.098	GUARD/GUIDE RAIL	RIGHT	
0.087	0.100	GUARD/GUIDE RAIL	LEFT	
0.091	0.096	BRIDGE	N/A	8750-007 (PAIGE BOULDER CREEK BRIDGE)
0.099	0.099	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 22T 36T 59T
0.100	0.100	INTERSECTION	N/A	ROUTE 0401 (N.E.E.D. CAMP RESIDENCE ROAD)
0.100	0.100	ROUTE END	N/A	TO END

ROUTE 0404: BRANDY CREEK SERVICE ROAD SOUTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5010 (KENNEDY MEMORIAL DRIVE)
0.001	0.001	CULVERT	N/A	
0.003	0.003	SIGN	RIGHT	GUIDE, REDDING SHASTA RALLY MARINA
0.006	0.006	GATE	N/A	VERTICAL BARS BETWEEN TWO HORIZONTAL BARS
0.014	0.014	SIGN	RIGHT	REGULATORY, KEEP OUT
0.044	0.044	INTERSECTION	LEFT	UNPAVED ROUTE
0.139	0.139	CULVERT	N/A	
0.167	0.167	INTERSECTION	RIGHT	ROUTE 0917 (BRANDY CREEK STORAGE YARD)
0.170	0.170	INTERSECTION	RIGHT	ROUTE 0917 (BRANDY CREEK STORAGE YARD)
0.170	0.170	INTERSECTION	LEFT	ROUTE 0917 (BRANDY CREEK STORAGE YARD)
0.170	0.170	ROUTE END	N/A	TO ROUTE 0917 (BRANDY CREEK STORAGE YARD)

ROUTE 0405: CARR POWERHOUSE SERVICE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0209 (CARR POWERHOUSE ROAD) AT MP 0.45 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0209 (CARR POWERHOUSE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0209 (CARR POWERHOUSE ROAD)
0.008	0.008	SIGN	LEFT	GUIDE, SERVICE ROAD KEEP OUT
0.049	0.049	INTERSECTION	RIGHT	UNPAVED ROUTE
0.084	0.084	CULVERT	N/A	
0.092	0.092	INTERSECTION	LEFT	UNPAVED ROUTE
0.140	0.140	INTERSECTION	LEFT	PAVED ROUTE
0.140	0.140	INTERSECTION	N/A	ROUTE 0405 (CARR POWERHOUSE SERVICE ROAD)
0.140	0.140	ROUTE END	N/A	TO END

ROUTE 0406: QUARTERS 324 ROAD

FROM	TO			
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE HIGHWAY 299
0.000	0.000	INTERSECTION	LEFT	STATE HIGHWAY 299
0.000	0.000	INTERSECTION	RIGHT	STATE HIGHWAY 299
0.013	0.069	CURB	LEFT	
0.022	0.022	INTERSECTION	RIGHT	ROUTE 0411 (BULL GULCH SERVICE ROAD)
0.023	0.023	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.030	0.030	CULVERT	N/A	
0.038	0.038	GATE	N/A	VERTICAL BARS BETWEEN TWO HORIZONTAL BARS
0.047	0.047	SIGN	RIGHT	GUIDE, SERVICE ROAD ONLY
0.073	0.073	SIGN	LEFT	GUIDE, PRIVATE RESIDENCE
0.086	0.086	INTERSECTION	LEFT	UNPAVED ROUTE
0.140	0.140	CULVERT	N/A	
0.257	0.280	RETAINING WALL	LEFT	
0.264	0.264	INTERSECTION	RIGHT	UNPAVED ROUTE
0.280	0.280	INTERSECTION	N/A	ROUTE 0406 (QUARTERS 324 ROAD)
0.280	0.280	ROUTE END	N/A	TO END

ROUTE 0407: GRIZZLY GULCH ROAD

FROM	TO		CIDE	COMMENT
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE HIGHWAY 299
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	STATE HIGHWAY 299
0.000	0.000	INTERSECTION	RIGHT	STATE HIGHWAY 299
0.039	0.039	CULVERT	N/A	
0.060	0.060	CULVERT	N/A	
0.161	0.161	CULVERT	N/A	
0.180	0.180	INTERSECTION	LEFT	ROUTE 0414 (GRIZZLY GULCH WATER TANK ACCESS ROAD)
0.186	0.186	SIGN	LEFT	GUIDE, AUTHORIZED VEHICLES ONLY
0.243	0.243	INTERSECTION	RIGHT	UNPAVED ROUTE
0.380	0.380	INTERSECTION	N/A	ROUTE 0407 (GRIZZLY GULCH ROAD)
0.380	0.380	ROUTE END	N/A	TO END OF PAVEMENT

ROUTE 0411: BULL GULCH SERVICE ROAD

0.460

0.460

ROUTE END

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0406 (QUARTERS 324 ROAD) AT MP 0.02 (ON RIGHT)
0.000	0.000	INTERSECTION	N/A	ROUTE 0411 (BULL GULCH SERVICE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0406 (QUARTERS 324 ROAD)
0.004	0.004	CULVERT	N/A	
0.006	0.006	GATE	N/A	
0.024	0.024	SIGN	RIGHT	GUIDE, PRIVATE RESIDENCE KEEP OUT
0.058	0.073	PULLOUT	RIGHT	
0.089	0.089	CULVERT	N/A	
0.190	0.190	CULVERT	N/A	
0.248	0.248	CULVERT	N/A	
0.371	0.371	CULVERT	N/A	
0.371	0.371	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.417	0.417	CULVERT	N/A	
0.460	0.460	INTERSECTION	N/A	ROUTE 0411 (BULL GULCH SERVICE ROAD)

N/A

TO END OF PAVEMENT

ROUTE 0414: GRIZZLY GULCH WATER TANK ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0407 (GRIZZLY GULCH ROAD) AT MP 0.18 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0407 (GRIZZLY GULCH ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0407 (GRIZZLY GULCH ROAD)
0.008	0.008	SIGN	RIGHT	GUIDE, WHISKEYTOWN OAK EDITION WASTE WATER TREATMENT PLANT
0.011	0.011	GATE	N/A	
0.011	0.011	SIGN	N/A	REGULATORY, CAUTION NEW AGE EFFLUENT DISPOSAL AREA KEEP OUT
0.019	0.019	INTERSECTION	LEFT	UNPAVED ROUTE
0.042	0.042	INTERSECTION	RIGHT	UNPAVED ROUTE
0.058	0.058	INTERSECTION	LEFT	ROUTE 0940 (GRIZZLY GULCH WATER TANK ACCESS PARKING)
0.060	0.060	INTERSECTION	LEFT	ROUTE 0940 (GRIZZLY GULCH WATER TANK ACCESS PARKING)
0.060	0.060	INTERSECTION	RIGHT	ROUTE 0940 (GRIZZLY GULCH WATER TANK ACCESS PARKING)
0.060	0.060	ROUTE END	N/A	TO ROUTE 0940 (GRIZZLY GULCH WATER TANK ACCESS PARKING)

ROUTE 0415: GOVERNMENT BOAT LAUNCH LOOP

FROM MILEPOST	TO MILEPOST	FFATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.23 (ON LEFT)
0.000	0.000	INTERSECTION	N/A	ROUTE 0400 (HEADQUARTERS ROAD)
0.041	0.069	CURB	RIGHT	
0.100	0.100	INTERSECTION	LEFT	ROUTE 0400 (HEADQUARTERS ROAD)
0.100	0.100	INTERSECTION	RIGHT	ROUTE 0400 (HEADQUARTERS ROAD)
0.100	0.100	ROUTE END	N/A	TO ROUTE 0400 (HEADQUARTERS ROAD) AT MP 0.24 (SIDE N/A)

Whiskeytown-Shasta-Trinity National Recreation Area



Section 10 Appendix

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR

ABBREVIATION DESCRIPTION OR DEFINITION

AADT (Annual Average Daily Traffic) The estimate of typical daily traffic

on a road segment for all days of the week over the period of one

year.

CRS Condition Rating Sheets. (Section 5)

Excellent rating with an index value of 95 or greater

Fair Fair rating with an index value from 61 to 84

Func. Class Funtional Classification (see Route ID, Section 4)

Good Good rating with an index value from 85 to 94

IRI International Roughness Index

Lane Width Width from road centerline to fogline, or from centerline to edge-of-

pavement when no fogline exists

MRR Manually Rated Route

N/A Not Applicable

NC Not Collected

Paved Width Width from edge-of-pavement to edge-of-pavement

PCR Pavement Condition Rating (Appendix B, Section 10)

Poor Poor Rating with an index value of 60 or less

RCI Roughness Condition Index

SADT (Seasonal Annual Daily Traffic) The AADT adjusted to represent

just the period of the year containing 80 percent of the total annual

traffic.

SCR Surface Condition Rating (Appendix B, Section 10)

Shoulder Width Distance from fogline to hinge point, or if no fogline, from edge-of-

pavement to hinge point.

APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

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

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

Calculation of Index Values

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

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

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

Condition Ranges for all Indices

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

Alligator Crack Index

```
AC_{INDEX} = 100 - 40 * [(\%LOW / 70) + (\%MED / 30) + (\%HI / 10)]
```

Where:

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

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

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

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

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

The threshold for failure for this index is $AC_{INDEX} = 60$.

Severity Levels:

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

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

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

Longitudinal Crack Index

```
LC_{INDEX} = 100 - 40 * [(\%LOW / 350) + (\%MED / 200) + (\%HI / 75)]
```

Where:

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

%LOW = (Total linear feet WX measured low severity longitudinal cracking) / (Section length in linear feet)

%MED = (Total linear feet WX measured medium severity longitudinal cracking) / (Section length in linear feet)

%HI = (Total linear feet WX measured high severity longitudinal cracking) / (Section length in linear feet)

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

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

Severity Levels:

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

Medium severity longitudinal cracks have a mean width $> \frac{1}{4}$ " and $\le \frac{3}{4}$ ".

High severity longitudinal cracks have a mean width $> \frac{3}{4}$ ".

Transverse Crack Index

```
TC_{INDEX} = 100 - \{ [20 * ((LOW / 15.1) + (MED / 7.5))] + [40 * (HI / 1.9)] \}
```

Where:

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

LOW = (Total linear feet WX measured low severity transverse cracking) / (WX measured lane width)
MED = (Total linear feet WX measured medium severity transverse cracking) / (WX measured lane width)
HI = (Total linear feet WX measured high severity transverse cracking) / (WX measured lane width)

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

The threshold for failure for this index is TC_INDEX = 60.

Severity Levels:

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

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

High severity transverse cracks have a mean width $> \frac{3}{4}$ ".

Patching Index

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

Where:

The value %PATCHING describes the percent of the total WX measured area that is affected by patching. This value ranges from ≥ 0 to ≤ 100 .

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

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

The threshold for failure for this index is PATCH INDEX = 60.

There are no severity levels for patching.

Rutting Index

```
RUT_INDEX = 100 - 40 * [(%LOW / 160) + (%MED / 80) + (%HI / 40)]
```

Where:

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

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

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

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

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

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

Severity Levels:

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

Low severity ruts have an ARAN measured depth ≥ 0.20 " and ≤ 0.49 ".

Medium severity ruts have an ARAN measured depth ≥ 0.50 " and ≤ 0.99 ".

High severity ruts have an ARAN measured depth ≥ 1.00 ".

Roughness Condition Index

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

Where:

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

```
AVG IRI = (ARAN measured Left IRI + ARAN measured Right IRI) / 2
```

There is no applicable threshold for failure for this index.

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

Surface Condition Rating Index

```
\mathbf{SCR} = 100 - [(100 - AC\_INDEX) + (100 - LC\_INDEX) + (100 - TC\_INDEX) + (100 - PATCH\_INDEX) + (100 - RUT\_INDEX)]
```

Where:

See above for determinations of AC_INDEX, LC_INDEX, TC_INDEX, PATCH_INDEX and RUT_INDEX.

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

Pavement Condition Rating Index Asphaltic Concrete Pavement (AS)

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

Where:

See above for determinations of SCR and RCI.

The values 0.60 and 0.40 function as weights within the formula.

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

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

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

Pavement Condition Rating Index Portland Cement Concrete Pavement (CO)

Concrete PCR = $-0.0012(IRI^2)+0.0499(IRI)+99.542$

Where:

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

Raveling – loss of surface rock chips revealing previous surface

Bleeding – asphalt or tar is bleeding through to the surface where surface looks slick with asphalt

Rutting

Potholes/Patching

Ratings - Chip Seal:

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

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

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

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

Surface Condition - Asphalt:

Cracking of any type

Rutting

Potholes/Patching

Ratings - Asphalt:

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

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

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

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

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

Under Construction 100

Excellent 97

Good 90

Fair 73

Poor 45

APPENDIX C: GENERAL INFORMATION ON RIP SYSTEMS

DMI (Distance Measuring Instrument)

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

Digital Image Information

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

Right-of-way (ROW) Video

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

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

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

The ARAN has a lever arm setting which tells the POS system where the center of the rutbar is with respect to the GPS antennas.

Pavement Video

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

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

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

FHWA ARAN GPS & Inertial System

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

GPS Collected on Manually Rated Routes

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

GPS SHAPEFILES

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

- Datum for all GPS shapefiles is LL_WGS84_DD (Latitude Longitude _World Geodetic Survey 1984_Decimal Degrees)
- In filename, "park" is NPS four-letter alphabetic code.
- The source for route data required for data processing and report production is the PARK RouteInfo.mdb.

Condition Photos Taken of Manually Rated Roads

One or more digital photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera for each manually rated route in a National Park. They are stored in .jpg format named with the four-letter NPS park alphabetic code, route number, and the photo number assigned by the camera. For example, YOSE_0900_4434.jpg is the filename of the photo named 4434 by the camera that was taken of Yosemite National Park route 0900.

Scenic Photos

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

APPENDIX D: METADATA

FHWA – NPS Road Inventory Program Cycle 4 Metadata

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

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

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

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

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

Specific Caveats

- MUTCD based on contents & colors of sign, not on size
- Database records that show a Portland Cement Concrete (CO) surface type sometimes include distress
 index values that seem to show a perfect roadway. Condition assessments on concrete pavements are not
 conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect
 values for concrete road sections for these indexes are default values and do not represent a condition
 assessment of the concrete surfaces.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are not accurate. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route's primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS_Tenth table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS_20 and PMS_Mile tables simply exclude all opposite routes.

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a "station".
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary
 direction video and mileage. Signs and Mile Markers are the only features collected using the oppositedirection video with mileage location referenced to the primary direction lane of the roadway.
- Route_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park ROAD 04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park_PKG_04. dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

Key to Notes in Tables

- (1): Note that only one value fits in field, so even if this value varies throughout the route, only predominant value is recorded here.
- (2): Shoulder width is measured at route start and every half-mile along the route in the primary direction. Width is the entire width of the drivable shoulder, regardless of the presence or absence of pavement, from the fog line to the shoulder hinge point, or if no fog line exists, from the edge of pavement to the hinge point. Identification of shoulder hinge point can be problematic using video analysis. Some paved ditches may be mistakenly recorded as shoulders where the shoulder hinge point and change in slope are not easily distinguished from the video.
- (3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.
- (4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle's mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle's mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors' key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor.
- (5): Condition assessments on concrete (PCC) pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
- (6): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolutions. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

MASTER Table Metadata:

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
						100% Referenced to
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	other tables
	GT 4 TT	****				100%, Referenced to
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	other tables (1)
	DADIZ ALDIJA	WWW	Ded of the colo	Desta ID Markins	NIDC D. C	100%, Referenced to
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	other tables 100%, Referenced to
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	other tables
4	FARK_NO	ΛΛΛΛ	Fark numeric code	Route ID Weeting	NFS References	100%, Referenced to
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	other tables
	KIL_IVO))))/AAA	Route number	Route 1D Weeting	Tark input / TTWA Classification	100%, Referenced to
						other tables. 100
6	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	characters fit in field
		(- 1)				100%, Referenced to
7	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input / FHWA Classification	other tables
			Survey lane: PRI (primary) or			
8	DIRECTION	XXX	OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%,
						Estimated before data
9	BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input / FHWA Determination	collected
						Estimated before data
10	END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input / FHWA Determination	collected
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
						100% Referenced to
12	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input / FHWA Determination	other tables
1.0	TO DEGG	(T)		B I B W	D 1 I . (FINIA D	100% Referenced to
13	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input / FHWA Determination	other tables
14	NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
1.5	CLIDE TYPE	3737		ADAND (CIL)		100%, Referenced to
15	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	other tables (1)
			Compass direction of route's			
16	COMP DIR	XX	primary lane (nearest cardinal direction)	Route ID Meeting	Park Input / FHWA Determination	Untested
17	COMP_DIR COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
18	FILENAME	` ′	Filename of raw data files	ARAN Data Collection		100%
18	FILENAME	(Text)	rhename of raw data mes		Automatic Output Survey Crew Input/Automatic	100%
19	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Output Output	100%
19	SECTION	(Text)	Route section ID	Data Collection	Output	10070

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

PMS_FEATURE Table Metadata:

				g 0.1.12 GT		EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1	DID CYCLE	3737	4.6.1.11.11.11.11.11	D (IDM)	EINMA D	100% Referenced to
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	other tables
	CT A TE	WW	State of home words in least of	Daniel ID Markins	Park Input / FHWA	H-4-4-1(1)
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested (1) 100% Referenced to
3	DADK ALDHA	XXXX	Dorle alpha anda	Route ID Meeting	NPS References	other tables
3	PARK_ALPHA	ΛΛΛΛ	Park alpha code	Route ID Meeting	NPS References	100% Referenced to
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	other tables
4	FARK_NO	ΛΛΛΛ	Fark numeric code	Route ID Meeting	Park Input / FHWA	100% Referenced to
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	other tables
5	KIE_NO	JJJJAAA	Facility Management	Route ID Meeting	Classification	other tables
			Software System Equipment			
6	FMSS_EQUIP	XXXXXXX	number	NPS FMSS application	NPS References	Untested
	TWISS_EQUI		number	THE THISE application	Park Input / FHWA	100% Referenced to
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	other tables
			Survey lane: PRI (primary)		Park Input / FHWA	
8	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
				ARAN Data		
				Collection/Contractor Post-		
9	MP	999.999 (miles)	Feature location along route	processing	Video Analysis	<=0.001 mile
			Feature Beginning location			
10	BEG_MP	999.999 (miles)	along route	Contractor Post-processing	Video Analysis	<=0.001 mile
			Feature Ending location			
11	END_MP	999.999 (miles)	along route	Contractor Post-processing	Video Analysis	<=0.001 mile
12	FEATURE_LENGTH	999.99 (Feet)	Linear Feature Length	Contractor Post-processing	Database Processing	100%
13	EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Analysis	Untested
			Event sub-category of			
14	EVENT_CODE	XXXX	feature	Contractor Post-processing	Video Analysis	Untested
			Feature designation:			
15	FEATURE_TYPE	(Text)	LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
1	ELIENT DEGG	(T)	Description of		X7' 1	T
16	EVENT_DESC	(Text)	feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
1.0	GOVIDALIAON	(OT / A 33	Sign condition. N/A. Not to		X7'1 4 1 '	Values inaccurate,
18	CONDITION	"N/A"	be populated	Contractor Post-processing	Video Analysis	defaulted to "N/A"
19	COMMENT	(T4)	Sign label, intersecting	Contractor Doct	Dotoboso Ducassina	Untested
19	COMMENT	(Text)	route, etc. Offset from Road Edge.	Contractor Post-processing	Database Processing	Values inaccurate,
20	OFFSET	"N/A"	N/A. Not to be populated	Contractor Post-processing	Database Processing	defaulted to "N/A"
20	OFFSEI	1N/A	IN/A. Not to be populated	Contractor Post-processing	Database Processing	uerauneu to IN/A

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
	TIEED	TORMIT	Side of route relative to lane	SOURCE	VILLIDITION	necemiei
21	SIDE	(Text)	driven	Contractor Post-processing	Video Analysis	95%
		, ,	FHWA bridge structure			
22	STR_NUMBER	(Text)	number	FHWA Post-processing	Database Processing	Untested
23	BARR_MAT	(Text)	Barrier Material Type	Contractor Post-processing	Video Analysis	Untested
24	BARR_TYPE	(Text)	Barrier Type	Contractor Post-processing	Video Analysis	Untested
25	BARR_POST_MAT	(Text)	Barrier Post Materials	Contractor Post-processing	Video Analysis	Untested
26	BARR_BEG_TERM	(Text)	Barrier Approach Treatment	Contractor Post-processing	Video Analysis	Untested
27	BARR_END_TERM	(Text)	Barrier End Treatment	Contractor Post-processing	Video Analysis	Untested
28	CURB_MAT	(Text)	Curb Material Type	Contractor Post-processing	Video Analysis	Untested
29	PAVED_DITCH_MAT	(Text)	Paved Ditch Material Type	Contractor Post-processing	Video Analysis	Untested (2)
30	GATE_MAT	(Text)	Gate Material Type	Contractor Post-processing	Video Analysis	Untested
31	GATE_STYLE	(Text)	Gate Style	Contractor Post-processing	Video Analysis	Untested
32	BEG_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
33	BEG_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
34	BEG_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
35	BEG_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
			GPS Latitude Co-ordinate			
36	END_GPS_LAT	999.999999	(decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
27	END CDC LON	-999.999999	GPS Longitude Co-ordinate	Control Doct many continu	77.1. A 1	2.00 5
37	END_GPS_LON END GPS ELEV	9999999	(-decimal degrees) GPS Elevation Feet	Contractor Post-processing	Video Analysis Video Analysis	<= 3.00 feet Untested
-		(Text)	GPS Elevation Feet GPS Satellite Mode	Contractor Post-processing	Video Analysis Video Analysis	Untested
39 40	END_GPS_MODE DATUM	` /		Contractor Post-processing	,	100%
40	DATUM	(Text)	LL_WGS84_DD Removable USB video hard	Contractor Post-processing	Database Processing	100%
41	VIDEO	< <i>Park</i> >C04VID<#>	drive number	Contractor Post-processing	Database Processing	Untested
	, IDEO	T WIND COTTED (II)	Filename of .jpg image	Contractor 1 ost processing	Database 110ccssing	Chrested
42	IMAGE	(Text)	showing feature	Contractor Post-processing	Automatic Output	Untested
43	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
44	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
		. /		Route ID Meeting/ARAN	Survey Crew	
45	SECTION	(Text)	Route section ID	Data Collection	Input/Automatic Output	100%
46	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
1.			Raw MP of first video frame			
47	VISI_FROM	999999 (millimiles)	showing feature	Contractor Post-processing	Database Processing	Untested
48	VISI_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

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

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

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

PMS_20, PMS_MILE, & PMS_TENTH Tables Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			4, for RIP data collection			100% Referenced to other
1	RIP_CYCLE	XX	Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested. (1)
						100% Referenced to other
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
					Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
					Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	tables
			Survey lane: PRI (primary)		Park Input/FHWA	
7	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
			MP at start of road interval			
	DEC 10	000 000 (11)	described by database			1000/ (2)
8	BEG_MP	999.999 (miles)	record	Contractor Post-processing	Database Processing	100% (3)
			MP at end of road interval			
9	END MP	999.999 (miles)	described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_MF	999.999 (IIIIles)	Length of road interval as	Collitación Fost-processing	Database Flocessing	100% (3)
10	INT_LENGTH	999.9 (ft)	aggregated for data table	Contractor Post-processing	Database Processing	100%
11	RTE LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100% (3)
12	NO LANES	99	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
13	_	99	Data collection lane	 	Database Processing	Untested. (1)
13	LANE_NO	99	WiseCrax (crack detection	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	software) analysis width	Contractor Post-processing	Automatic Output	Untested
15	LANE_WIDTH	99.9 (ft)	Width of lane	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
16	PAVE_WIDTH	99.9 (ft)		Contractor Post-processing Contractor Post-processing	Video Analysis Video Analysis	95%, <=1.0 foot
-	_	` ′	Full pavement width	1 0	ž	
17	SHLD_WIDTH_L	99.9 (ft)	Left shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
18	SHLD_WIDTH_R	99.9 (ft)	Right shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
1.0	CITED COND I	NT/A	N/A. Intended to be Left	ADAND (CIL C		Values inaccurate, defaulted
19	SHLD_COND_L	N/A	shoulder condition	ARAN Data Collection	Survey Crew Input	to "N/A"
20	CHI D COND D	NT/A	N/A. Intended to be Right	AD AN Data Calledian	Comment Comment	Values inaccurate, defaulted
20	SHLD_COND_R	N/A	shoulder condition N/A. Intended to be Left	ARAN Data Collection	Survey Crew Input	to "N/A"
21	DDAIN COND I	NT/A		APAN Data Callaction	Survey Cray Innut	Values inaccurate, defaulted to "N/A"
21	DRAIN_COND_L	N/A	drainage condition N/A. Intended to be Right	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted
22	DRAIN_COND_R	N/A	drainage condition	ARAN Data Collection	Survey Crew Input	to "N/A"
22	DRAIN_COND_R	1 V / <i>F</i> 1	dramage condition	ANAN Data Collection	Survey Crew Input	io IN/A

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
23	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
24	PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
			Roughness Condition Index;			
25	RCI	999	-1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation
26	SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
27	IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
28	IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
29	IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
30	IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
31	IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
32	RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (5)
			Average rut depth of both			
33	RUT_AVG	99.99 (inches)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
			Maximum rut depth of both			
34	RUT_MAX	99.99 (inches)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
35	RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (5)
			Percent of low severity ruts			
36	RUT_LOW	999 (%)	(on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
30	KU1_LOW	999 (%)	Percent of medium severity	Contractor Post-processing	Database Processing	Official (3)
			ruts (on a 0-200% scale) in			
37	RUT MED	999 (%)	both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
		222 (12)	Percent of high severity ruts			(2)
			(on a 0-200% scale) in both			
38	RUT_HI	999 (%)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
			Cross fall at start of road			
39	XFALL	999.9 (% slope)	interval	ARAN Data Collection	Automatic Output	Untested
40	GRADE	000 0 (0/ -1)	Grade at start of road	ARAN Data Collection	A damentic O day	TI-4-4-4
40		999.9 (% slope)	interval		Automatic Output	Untested
41	AC_INDEX	999	Alligator cracking index Percent of WiseCrax	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
			measured lane area with			
			low-severity alligator			As a Computed 95%
42	AC LOW	999.9999 (%)	cracking	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)
	_	. ,	Percent of WiseCrax			
			measured lane area with			
			medium-severity alligator			As a Computed 95%
43	AC_MED	999.9999 (%)	cracking	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)
			Percent of WiseCrax			1050
1 4 4	AC III	000 0000 (0/)	measured lane area with	Company of the Dord Company of the C	Design and Wide A and a de	As a Computed 95%
44	AC_HI	999.9999 (%)	high-severity alligator	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)

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

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

ROUTE_GPS table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						100% referenced to other
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested
	DADIZ ALDILA	VVVV	Dowle alaba and	Danta ID Mastina	NIDC Defenses	100% Referenced to other
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	tables 100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
H	17HKK_110	71777	T dix numeric code	Route 15 Weeting	Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
					Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Classification	tables
						100% Referenced to other
						tables . 100 characters fit in
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	field
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
	DIDECTION	373737	Survey lane: PRI (primary) or	D (ID) (C	Park Input/FHWA	TT 1
9	DIRECTION	XXX	OPP (opposite)	Route ID Meeting	Determination	Untested
10	MP	999.999	Mile Post (at 0.01 record)	ARAN Data Collection, Contractor Post-processing	Survey Crew Input/GPS Processing	Untested (3)
10	IVII	777.777	GPS Latitude Co-ordinate	ARAN Data Collection,	Trocessing	Ontested (3)
11	GPS LAT	999.999999	(decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
	00%_====		GPS Longitude Co-ordinate	ARAN Data Collection,		
12	GPS_LON	-999.999999	(-decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
				ARAN Data Collection,		
13	GPS_ELEV	99999.9	Elevation	Contractor Post-processing	Automatic Output	Untested
			GPS Satellite Mode	ARAN Data Collection,		
14	GPS_MODE	XXX	during collection	Contractor Post-processing	Automatic Output	Untested
			Cross Fall: % Slope at GPS	ADAMB CHI		
1.5	VEALI	000.0	Location (Caution, Data not	ARAN Data Collection,	Ataati Otat	I Interest of
15	XFALL	999.9	Validated) Grade: % Slope at GPS Location	Contractor Post-processing ARAN Data Collection,	Automatic Output	Untested
16	GRADE	999.9	(Caution, Data not Validated)	Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM		LL_WGS84_DD	ARAN Data Collection ARAN Data Collection	•	_
		(Text)			Database Processing	Untested
19	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	Untested
20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	Untested

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

FHWA "Route ID Program" Database Database Name: ROUTEINFO.mdb Table Name: ROUTE_ID

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
. 1			The Park's Alpha Code + "-" +			100%, Reference source for all
1	ROUTE_IDENT	XXXX-9999XXX	RTE_NO (below).	Route ID Meeting	Automatic Output	tables
						100%, Reference source for all
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
						100%, Reference source for all
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	tables
	111111_11111	717171	Tun Tipiu Code	Troute 12 Treeting	THE References	100%, Reference source for all
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
	_		• •	, and the second		100%, Reference source for all
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100%, Reference source for all
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	tables
						100%, Reference source for all
7	RTE NO	9999XXX	Route Number	Route ID Meeting	Park Input	tables
$\stackrel{\prime}{-}$	KIL_NO	<i>,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rode Pullion	Route 1D Weeting	Tuk iiput	100%, Reference source for all
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	tables
	_			Ŭ		100%, Reference source for all
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
						100%, Reference source for all
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
	nyan nyan			ARAN Data		100%, Reference source for all
11	INSP_DATE	MM/DD/YYYY	Collection Date	Collection	FHWA Determination	tables
12	FUNCT_CLASS	XX	Functional Class	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
					<u> </u>	
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
	CE A EEC	3737	Additional State Park Route	D (ID M (D 11 (FINAD : : :	11.4.4.171
14	STATE2	XX	traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
			NPS's Facility Management Software System (FMSS) Asset			100%, Reference source for all
15	FMSS_NO	(Text)	number	Route ID Meeting	Park Input	tables
15	11.100_110	(10At)	FMSS Surface Equipment	Troute ID Miceting	I mix iliput	the state of the s
16	FMSS_SUR_EQP	(Text)	Number	Route ID Meeting	Park Input	Untested
	`	` '	Park Maintenance District Route		1	100%, Reference source for all
17	M_DISTRICT	(Text)	resides in	Route ID Meeting	Park Input	tables (1)
18	TOPOGRAPHY	(Text)	Predominate Terrain condition for	Route ID Meeting	FHWA Determination	100%, Reference source for all

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
		Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN)			tables (1)
		Posted Speed Limit for Route			
POSTED_SPEED	99	Limit along Route)	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
_					100%, Reference source for all
ARAN_ROUTE	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	tables 100%, Reference source for all
PARKING_AREA	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	tables
CONCESSION	XXX	Yes/No	Route ID Meeting	Park Input	100%, Reference source for all tables
COTTELESSIOTT	717171		ARAN Data	T tak Input	100%, Reference source for all
PAVED_MI	999.999	0.001)	Collection	Automatic Output	tables
UNPAVED_MI	999.999	Unpaved mileage (to the nearest 0.001)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
			Contractor Post-		100%, Reference source for all
RTE_LENGTH	999.999	<u> </u>	processing	Automatic Output	tables
		(concrete), BR (brick/pavers), CB			100%, Reference source for all
SURF_TYPE	XX	(cobblestone), OT (other))	Route ID Meeting	Survey Crew Input	tables (1)
UNPAVED	XXXX	Unpaved Route (Yes/No/Both)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
UNPAVED_CAT	XXX	Unpaved Road Category	Route ID Meeting	Automatic Output	Untested
CLIDD	(T1)		Day to ID Markins	D. I. I (FINVA D. (coming)	Haradad
CURB	(1ext)		Route ID Meeting	Park Input/FHWA Determination	Untested
CURB_GUTTER	(Text)	Gutter around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
					100%, Reference source for all
ADJ_ROUTE	9999XXX	Route number	Route ID Meeting	Automatic Output	tables
USER ACCESS	(Text)	Access Designation for Parking	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
_	, ,	1			100%, Reference source for all
PHOTO_NO	(Text)	Photo or Image	Route ID Meeting	Survey Crew Input	tables
PLOT SIZE	(Text)	Unpayed Parking Area Size	Route ID Meeting	Automatic Output	100%, Reference source for all tables
	(2010)		Contractor Post-	stomate - stylet	100%, Reference source for all
SQ_FEET	999.999	Route Square Footage	processing	Automatic Output	tables
M RATING	(Text)	Manual Rating	Route ID Meeting	Automatic Output	100%, Reference source for all tables
	POSTED_SPEED ARAN_ROUTE PARKING_AREA CONCESSION PAVED_MI UNPAVED_MI RTE_LENGTH SURF_TYPE UNPAVED UNPAVED CURB CURB CURB_GUTTER ADJ_ROUTE USER_ACCESS PHOTO_NO PLOT_SIZE	POSTED_SPEED 99 ARAN_ROUTE XXX PARKING_AREA XXX CONCESSION XXX PAVED_MI 999.999 UNPAVED_MI 999.999 RTE_LENGTH 999.999 SURF_TYPE XX UNPAVED XXXX UNPAVED_CAT XXX CURB (Text) CURB_GUTTER (Text) ADJ_ROUTE 9999XXX USER_ACCESS (Text) PHOTO_NO (Text) PLOT_SIZE (Text) SQ_FEET 999.999	Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN) Posted Speed Limit for Route (Value is Predominate Speed Limit along Route) ARAN_ROUTE XXX Yes/No PARKING_AREA XXX Yes/No CONCESSION XXX Yes/No PAVED_MI 999.999 Paved mileage (to the nearest 0.001) UNPAVED_MI 999.999 Official Route Length Surface type (PAVED: AS (asphalt, includes composite), CO (concrete), BR (brick/pavers), CB (cobblestone), OT (other)) UNPAVED XXXX Unpaved Road Category PARKING_AREA XXX Unpaved Road Category PARKING_AREA With Curb and Gutter around perimeter. ADJ_ROUTE 9999XXX Route number USER_ACCESS (Text) Access Designation for Parking PHOTO_NO (Text) Photo or Image PLOT_SIZE (Text) Unpaved Parking Area Size SQ_FEET 999.999 Route Square Footage	Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN) Posted Speed Limit for Route (Value is Predominate Speed Limit along Route) Route ID Meeting ARAN_ROUTE XXX Yes/No Route ID Meeting PARKING_AREA XXX Yes/No Route ID Meeting PARKING_AREA XXX Yes/No Route ID Meeting PAVED_MI 999.999 0.001) Collection UNPAVED_MI 999.999 O.001) Collection UNPAVED_MI 999.999 Official Route Length Processing RTE_LENGTH 999.999 Official Route Length Processing SURF_TYPE XX (cobblestone), OT (other)) Route ID Meeting UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting CURB (Text) Parking Area with Curb around perimeter. Route ID Meeting CURB_GUTTER (Text) Access Designation for Parking Route ID Meeting USER_ACCESS (Text) Access Designation for Parking Route ID Meeting PARKING_AREA XXX Ves/No Route ID Meeting Route ID Meeting	Route (FLAT, ROLLING, MOUNTAINOUS, or URBAN) Posted Speed Limit for Route (Value is Predominate Speed Limit along Route) Route ID Meeting Park Input/FHWA Determination ARAN_ROUTE XXX Yes/No Route ID Meeting Park Input/FHWA Determination ARAN_ROUTE XXX Yes/No Route ID Meeting Park Input/FHWA Determination PARKING_AREA XXX Yes/No Route ID Meeting Park Input/FHWA Determination CONCESSION XXX Yes/No Route ID Meeting Park Input/FHWA Determination PAVED_MI 999.999 Park Input PAVED_MI 999.999 Unpaved mileage (to the nearest Oolection Automatic Output UNPAVED_MI 999.999 Official Route Length Processing Automatic Output RTF_LENGTH 999.999 Official Route Length Processing Automatic Output UNPAVED_MS (asphalt, includes composite), CO (concrete, BR (brick/pavers), CB (cobblestone), OT (other)) ROUTE ID Meeting Survey Crew Input UNPAVED XXXX Unpaved Route (Yes/No/Both) Route ID Meeting Automatic Output UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting Automatic Output UNPAVED_CAT XXX Unpaved Road Category Route ID Meeting Park Input/FHWA Determination CURB_GUTTER (Text) Parking Area with Curb and Gutter around perimeter. Route ID Meeting Park Input/FHWA Determination ADJ_ROUTE 9999XXX Route number Route ID Meeting Park Input/FHWA Determination PHOTO_NO (Text) Photo or Image Route ID Meeting Survey Crew Input PLOT_SIZE (Text) Unpaved Parking Area Size Route ID Meeting Survey Crew Input Contractor Post-processing Survey Crew Input Contractor Post-processing Automatic Output Contractor Post-processing Survey Crew Input PLOT_SIZE (Text) Unpaved Parking Area Size Route ID Meeting Automatic Output Contractor Post-processing Survey Crew Input Automatic Output Contractor Post-processing Automatic Output Contractor Post-processing Automatic Output Contractor Post-processing Automatic Output

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
				Contractor Post-		100%, Reference source for all
37	SQ_YARDS	999.999	Route Square Yardage	processing	Automatic Output	tables
38	LANES	XX	Route travel lanes	Route ID Meeting	Automatic Output	Untested (1)
39	PAVE_WIDTH	999.99	Pavement Width (Weighted average)	RIP Post-processing	Automatic Output	100% Referenced to other tables
39	TAVE_WIDTH	777.77	average)	Kii Tost-processing	Automatic Output	100% Referenced to other tables
40	LANE_MILES	999.999	Route Equivalent Lane Miles	RIP Post-processing	Automatic Output	100%, Reference source for all tables
41	AREA_MAP	(Text)	1 or 2-digit number	Contractor Post- processing	FHWA/Contractor Input	100%, Reference source for all tables
42	REMARKS	(Memo)	General remarks on Park route and data collection operations.	Contractor Post- processing	FHWA/Contractor Input	Untested
43	SUMMARY_REC	XXXX-9999XXX	ROUTE_IDENT of summary Park Asset	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
44	NPS_REGION	(Text)	Park Region	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
45	DIVISION	(Text)	FHWA Division	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
46	PCR	999.99	Route Weighted Average PCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	SCR	999.99	Route Weighted Average SCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	AADT	999	Average Adjusted Daily Traffic	RIP	Automatic Output	Untested
49	SADT	999	Seasonal Adjusted Daily Traffic	RIP	Automatic Output	Untested
50	ADT_DATE	MM/DD/YYYY	Traffic Date of Collection	RIP	Automatic Output	Untested
51	BEG_LAT	999.999999	Route Begin GPS Latitude Co- ordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
52	BEG_LON	-999.999999	Route Begin GPS Longitude Co- ordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
53	BEG_ELEV	99999.9	Route Begin Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
54	BEG_MODE	XXX	Route Begin GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
55	END_LAT	999.999999	Route End GPS Latitude Co- ordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables

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

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			Route Total Length Guard/Guide			
81	GDRAIL_TLNG	9999.999 (ft)	Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Guard/Guide			
82	GDWALL_TLNG	9999.999 (ft)	Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Temporary		1	
83	TEMP_BARR_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Bollard		1	
84	BOLLARD_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
85	BARRIER_TLNG	9999.999 (ft)	Route Total Length All Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Curbing			
86	CURB_TLNG	9999.999 (ft)	(excludes Parking Areas)	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Low Water			
87	LWCROSS_TLNG	9999.999 (ft)	Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
						100% Referenced to other tables
88	PAVDITCH_TLNG	9999.999 (ft)	Route Total Length Paved Ditch	RIP Post-processing	Automatic Output	(2)
89	TURNOUT_TLNG	9999.999 (ft)	Route Total Length Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
90	LANE_NUMBER	99	Number of Lane Tested	RIP Post-processing	Automatic Output	100% Referenced to other tables
						100% Reference source for all
91	LOCAL_FACTOR	9.9999	Park Location Factor	NPS Partner	Automatic Output	tables
						100% Reference source for all
92	E_ZONE	XXX	Route Environmental Zone	FHWA HPMA	Automatic Output	tables
						100% Reference source for all
93	PAVEMENT_DM	\$99,999,999.99	Pavement Deferred Maintenance	FHWA HPMA	Automatic Output	tables
						100% Reference source for all
94	CRV	\$99,999,999.99	Current Replacement Value	RIP Post-processing	Automatic Output	tables

Database Name: ROUTEINFO.mdb Table Name: PARK_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
	TIEED	TORWITT	EM ECTED VILLEE	BOCKCE	VILLIDITION	100% Referenced to other
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
			,,			100% Referenced to other
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	tables
			•			100% Referenced to other
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	tables
				Route ID Meeting and		1000170
	DIGD DATE		Date that data was collected in the park	ARAN Data		100% Referenced to other
6	INSP_DATE	MM/DD/YYYY	(completion date).	Collection	FHWA Determination	tables
						100% Referenced to other
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	tables
						100% Referenced to other
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	tables
	T DAVED M	000 000	T . 10 10 100	DIDD		100% Referenced to other
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	tables
10	T INDAVED MI	000 000	Tatal Dark Hanner AMTh.	DID Dead and a second	A	100% Referenced to other
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	tables 100% Referenced to other
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	tables
11	1_ROUTE_WILES	777.777	Total Fark Route Willes	Kir rost-processing	Automatic Output	100% Referenced to other
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	tables
12	1_7H7H_DH\VEI\	777.777	Total Lark All All All Dilveir Wiles	Kii Tost processing	Tutomatic Output	100% Referenced to other
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	tables
				1 5	•	100% Referenced to other
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	tables
			Total Park Parking Unpaved Square			100% Referenced to other
17	T_PRK_UNPAVEDSQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
			Total Park Concession Parking Paved			100% Referenced to other
18	T_CPRK_PAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1.0			Total Park Concession Parking Unpaved			100% Referenced to other
19	T_CPRK_UNPAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables
20		000 000		DVD D		100% Referenced to other
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	tables
		000 000	Total Park Parking Equivalent Lane			100% Referenced to other
21	T_PARKING_LMILES	999.999	Miles	RIP Post-processing	Automatic Output	tables
	T 100 000	000 000	Total Park Manually Rated Road Square	DVD D		100% Referenced to other
22	T_MRR_SQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
	T CLODE COET	000 000	Total Park Concession Manually Rated			100% Referenced to other
23	T_CMRR_SQFT	999.999	Road Square Feet	RIP Post-processing	Automatic Output	tables
			Total Park Manually Rated Road			100% Referenced to other
24	T_MRR_LMILES	999.999	Equivalent Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	tables
				•		100% Referenced to other
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	tables
				1	•	100% Referenced to other
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	tables
				1 6		100% Referenced to other
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	tables
				· ·	•	
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other

	Elei D	EODMAT	EADECASED AVITUE	COLIDGE	WALIDATION	EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	tables
						tables
						100% Referenced to other
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	tables
12	T PIND ONT	000	T (ID IF H) (C	DIDD		100% Referenced to other
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	tables
44	T OVEDDASS CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
44	T_OVERPASS_CNT	799	Total Fark Overpass Count	Kir rost-processing	Automatic Output	100% Referenced to other
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	tables
7.5	1_C/IDEE_TE/IG)))),)))(It)	Total Length Park Guard/Guide Rail	Kii Tost processing	Tutomatic Output	100% Referenced to other
46	T_GDRAIL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
	1_GDIGINE_1E.VG)))))))(It)	Total Length Park Guard/Guide Wall	Tan Tost processing	Tutomatic output	100% Referenced to other
47	T_GDWALL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
		,			•	100% Referenced to other
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	tables
-2	T DAMBITCH TING	0000 000 (%)	T (11 (1 D 1 D 1 D) (1	DID D		100% Referenced to other
53	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	tables (2)
F 1	T TUDNOUT TING	0000 000 (%)	Total I anoth Doub Turnouts	DID Doot and accions	A to ot - Otot	100% Referenced to other
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	tables 100% Referenced to other
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	tables
33	TARK_I CK	22.77	Overall Lark LCK Ratilig	KII I OSI-PIOCESSIIIg	Automatic Output	100% Referenced to other
56	PARK RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	tables
50	111111_1(0)	77.77	O TOTALL I WIN THOLITAINING	Till 1 ost processing	Tutomane Output	100% Referenced to other
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	tables
				F		100% Referenced to other
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	tables
			Overall Park Alligator Cracking Index		•	100% Referenced to other
59	PARK_AC_INDEX	99.99	Rating	RIP Post-processing	Automatic Output	tables

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

Business Practices for Route Numbering and Roadway Asset Identification

Introduction and Background:

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

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

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

Issue Statement:

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

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

Proposed Actions:

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

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

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

Discussion:

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

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

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

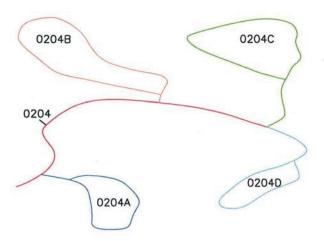


Figure 1: Campground with five routes and five assets

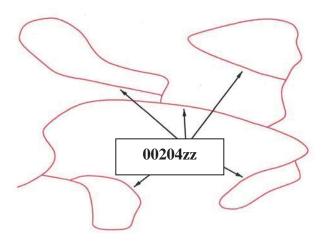


Figure 2: Campground with all loops combined into one route and one asset. This has eliminated four assets.

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

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

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

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

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

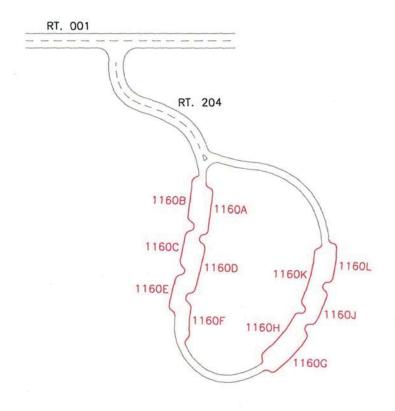


Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets (one 1100 asset and 11 1300 assets).

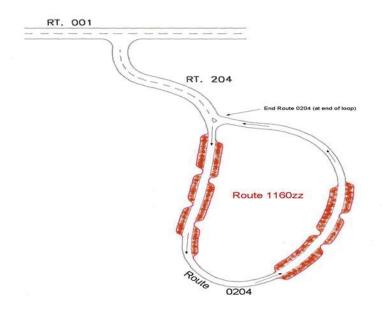


Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

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

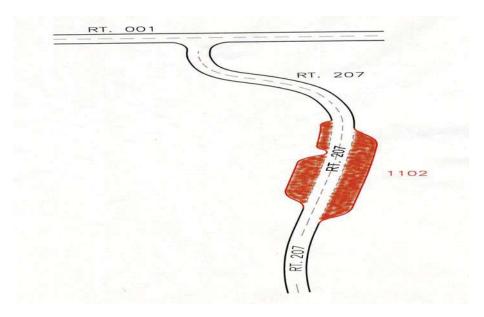


Figure 5: Parking with access route 207 running through and continuing beyond parking 1102. This access route cannot be considered a part of the parking area and two routes and two assets continue to exist.

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

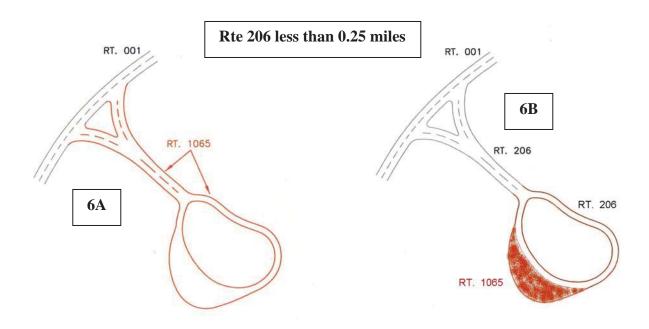


Figure 6: Since the access route is less than .25 miles in length and the only use of the access is to the parking, one route for both the access and the parking area can be established.

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

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

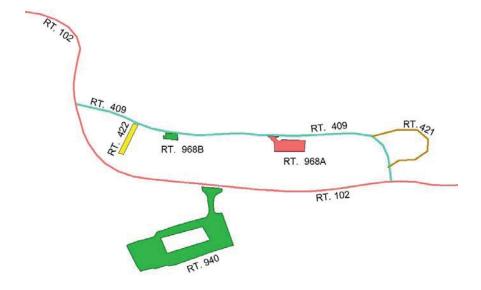


Figure 7 – Current Housing area access configuration. Route 409 is less than 0.25 miles long.

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

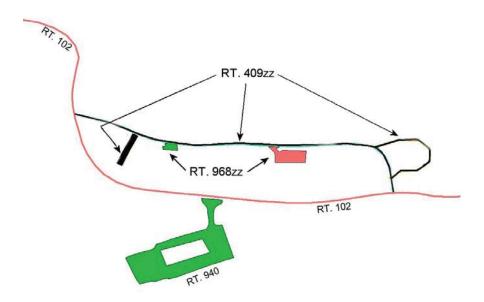


Figure 8 – Combined housing area access configuration – Parking and road assets combined to eliminate 3 assets.