The Road Inventory
of
Sleeping Bear Dunes National Lakeshore
SLBE - 6620

national park service

Road Inventory Program

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

Sleeping Bear Dunes National Lakeshore
in
Michigan

TABLE OF CONTENTS

INTRODUCTION

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

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

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

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

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

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

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

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

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

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

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

FHWA RIP Coordinator:

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Sleeping Bear Dunes National Lakeshore Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	10.29	6/30/2003
Unpaved Estimated Route Miles	6.21	6/30/2003
Paved ARAN and Unpaved Route Miles	16.50	
Paved ARAN Driven Lane Miles	12.42	6/30/2003
Paved MRR Lane Miles	0.00	
Parking Lot Lane Miles	8.20	6/30/2003
Total Paved Lane Miles	20.62	

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

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

Sleeping Bear Dunes National Lakeshore Summaries

Cost to Improve to "Excellent" Condition

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

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

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	2.05	$61,500
Good	2.73	$300,300
Fair	4.78	$2,676,800
Poor	0.73	$1,124,200
Totals	**10.29**	**$4,162,800**

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

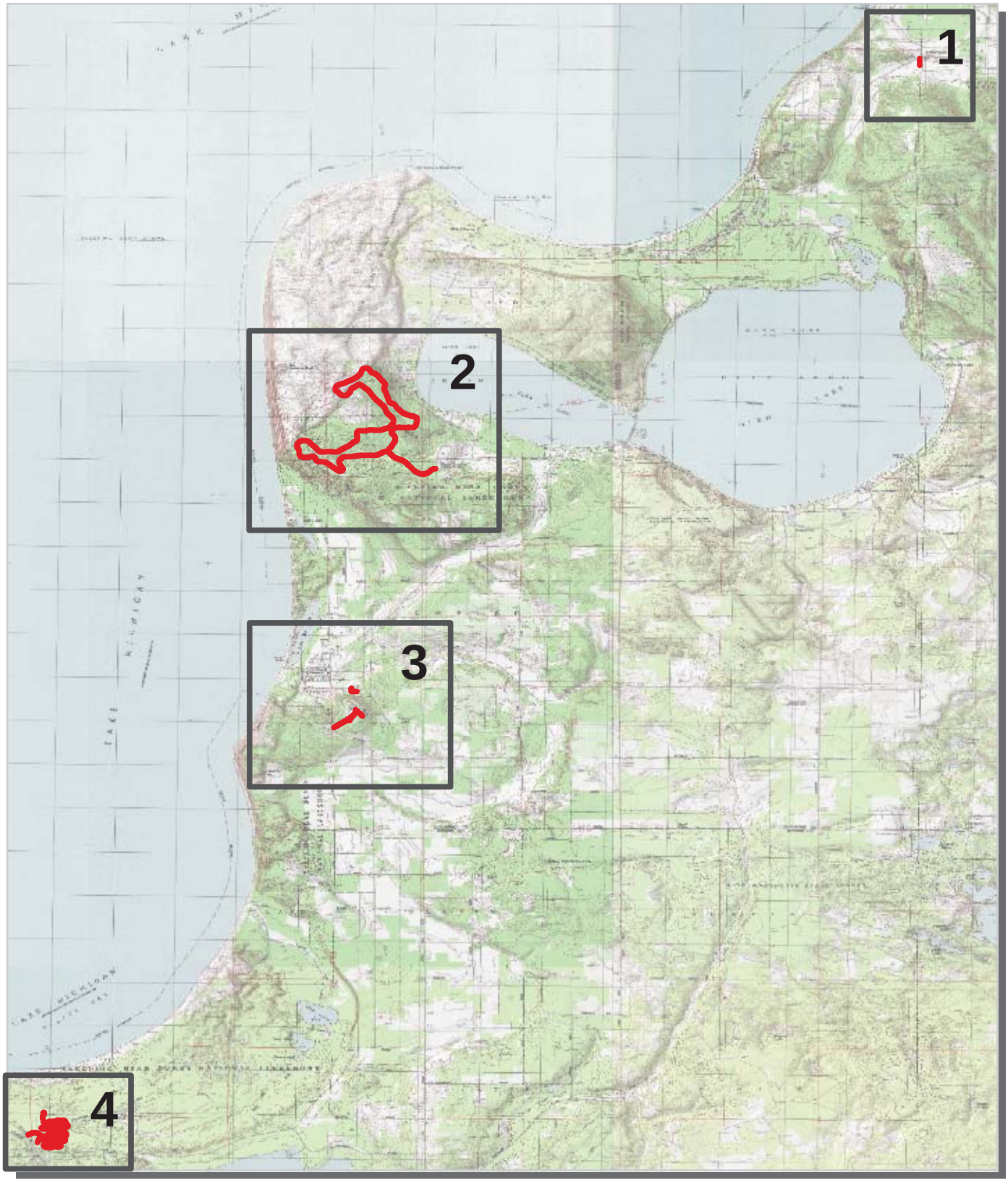
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Sleeping Bear Dunes National Lakeshore Summaries

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

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	0.16	1.55%	3.92	38.10%	2.14	20.80%	0.53	5.15%	6.75
2									
3	0.05	0.49%	0.65	6.32%	0.53	5.15%	1.52	14.77%	2.75
4									
5	0.52	5.05%	0.21	2.04%	0.06	0.58%			0.79
6									
7									
8									
Totals	**0.73**	**7.09%**	**4.78**	**46.45%**	**2.73**	**26.53%**	**2.05**	**19.92%**	**10.29**

Sleeping Bear Dunes National Lakeshore
Route Location
Key Map

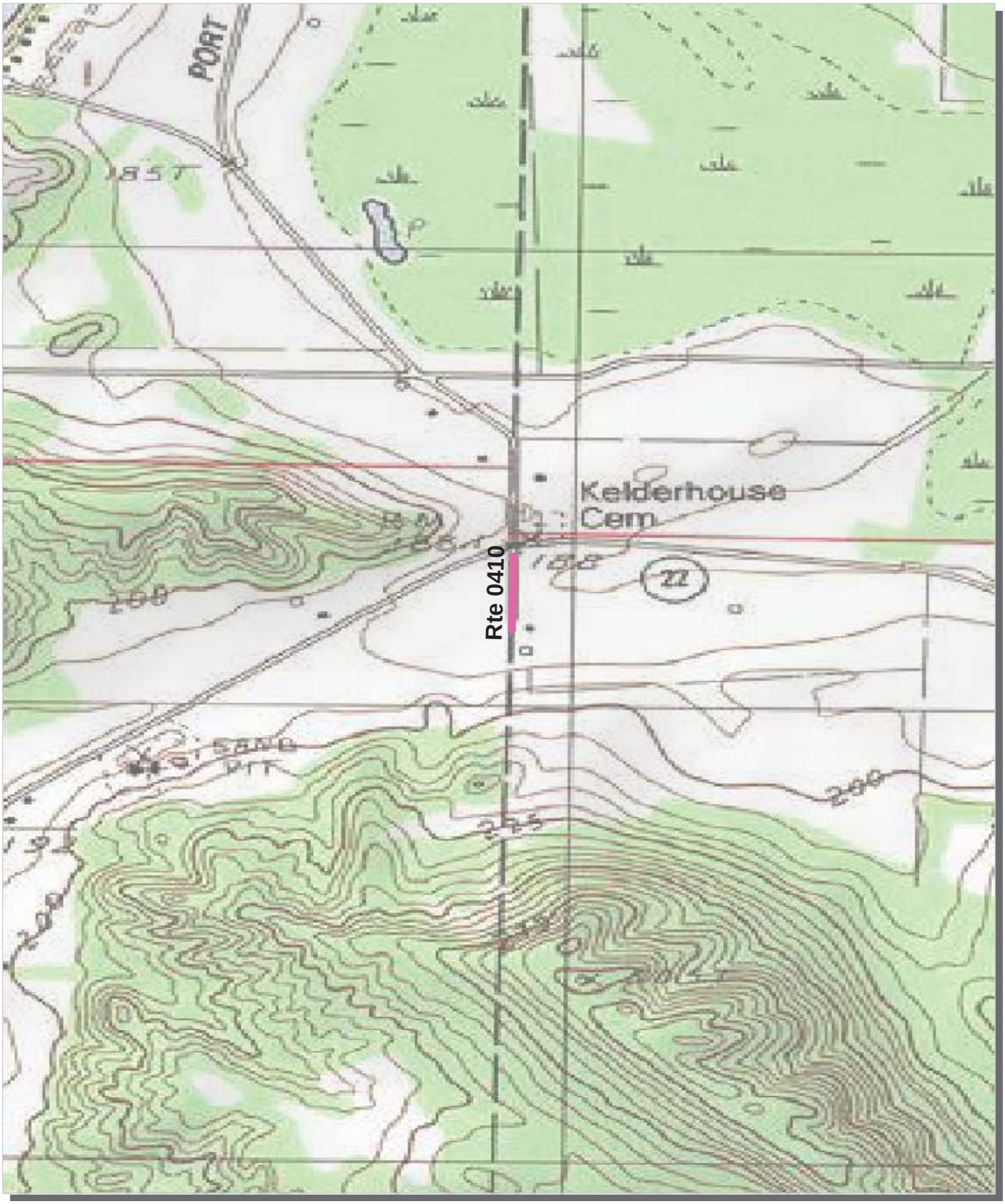


Park Owned Routes

3 1.5 0 3 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Location
Area Map 1

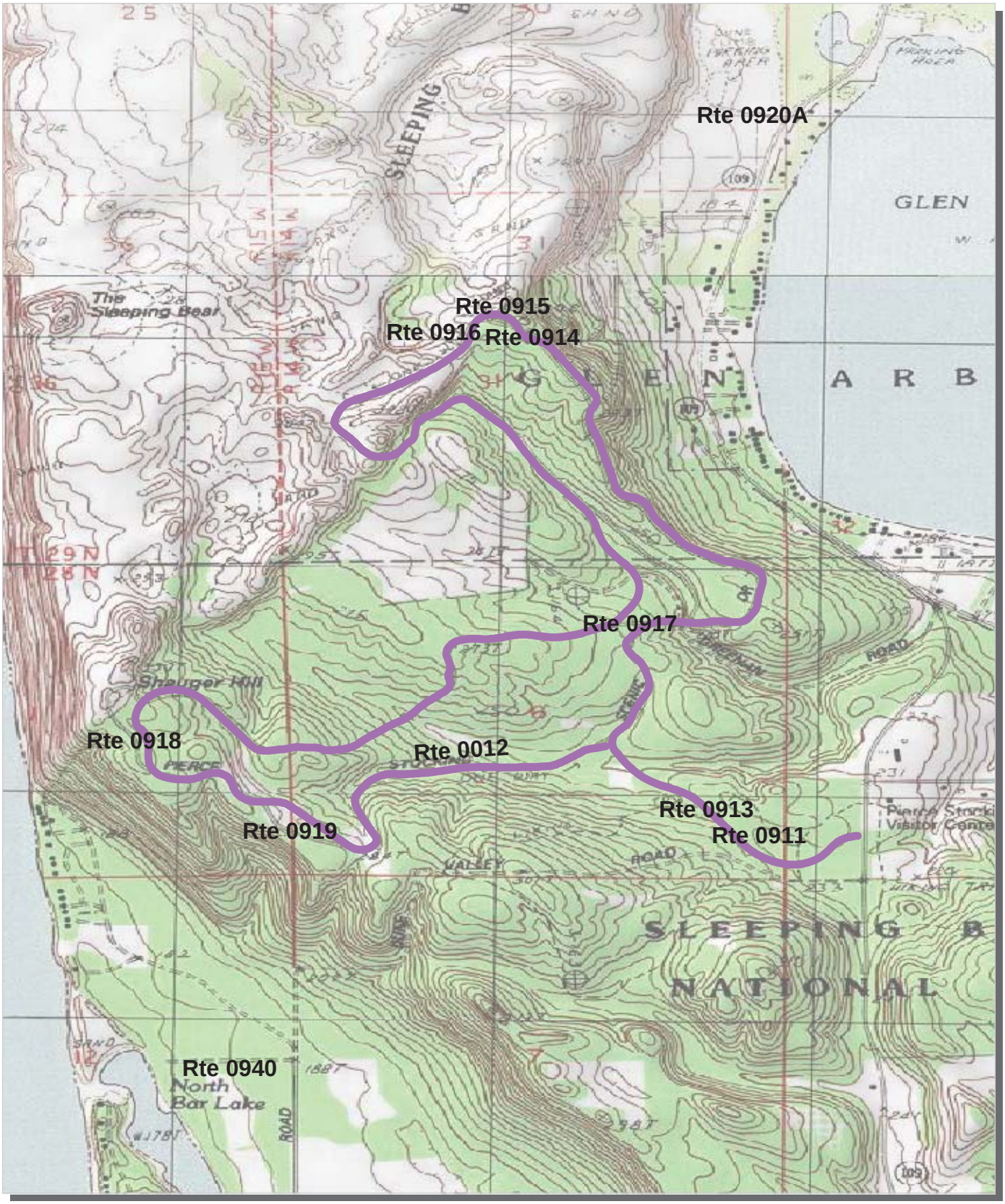


Unique colors used to differentiate routes

0.25 0.125 0 0.25
Miles

N

Sleeping Bear Dunes National Lakeshore
Route Location
Area Map 2

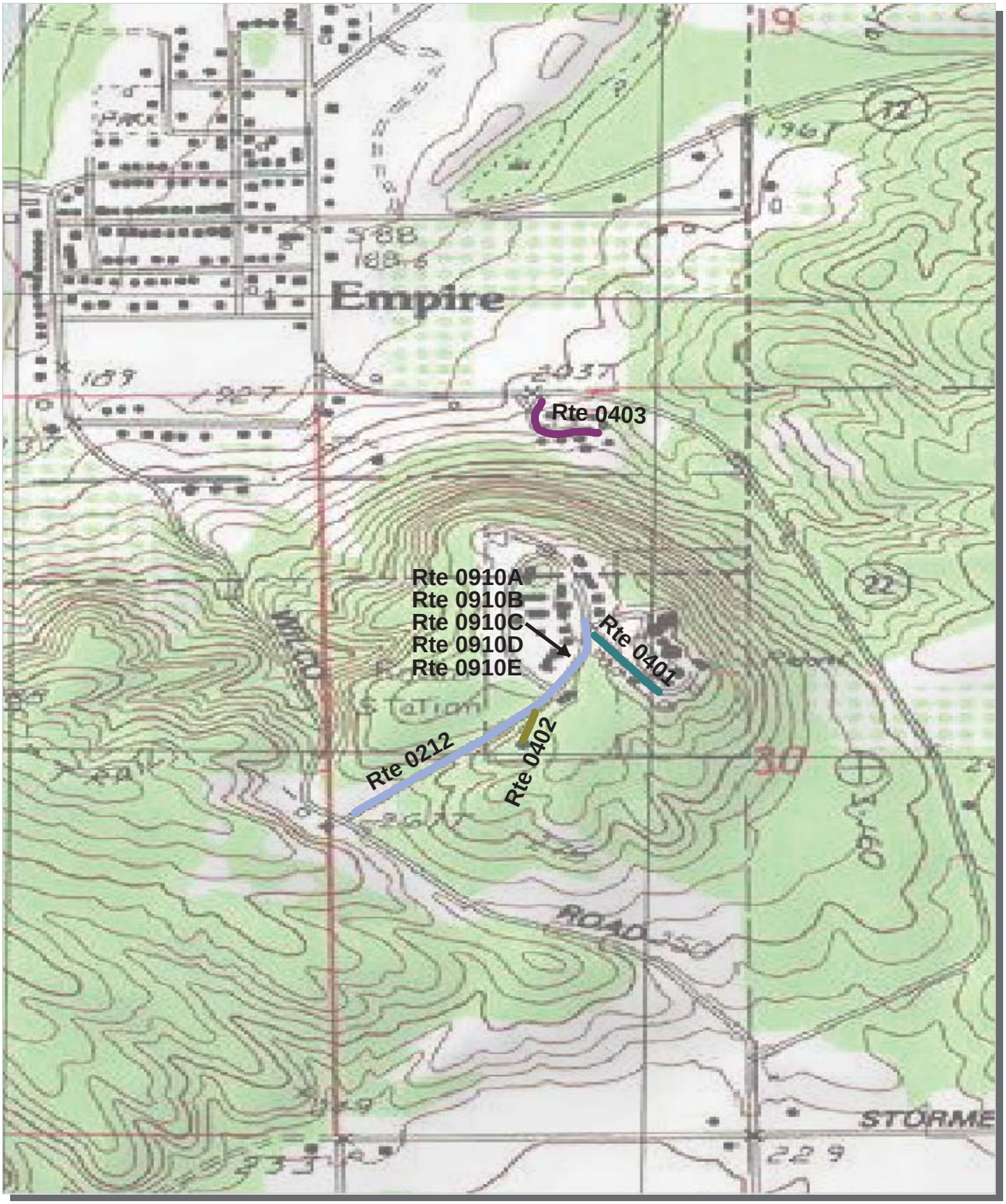


Unique colors used to differentiate routes

0.5 0.25 0 0.5 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Location
Area Map 3

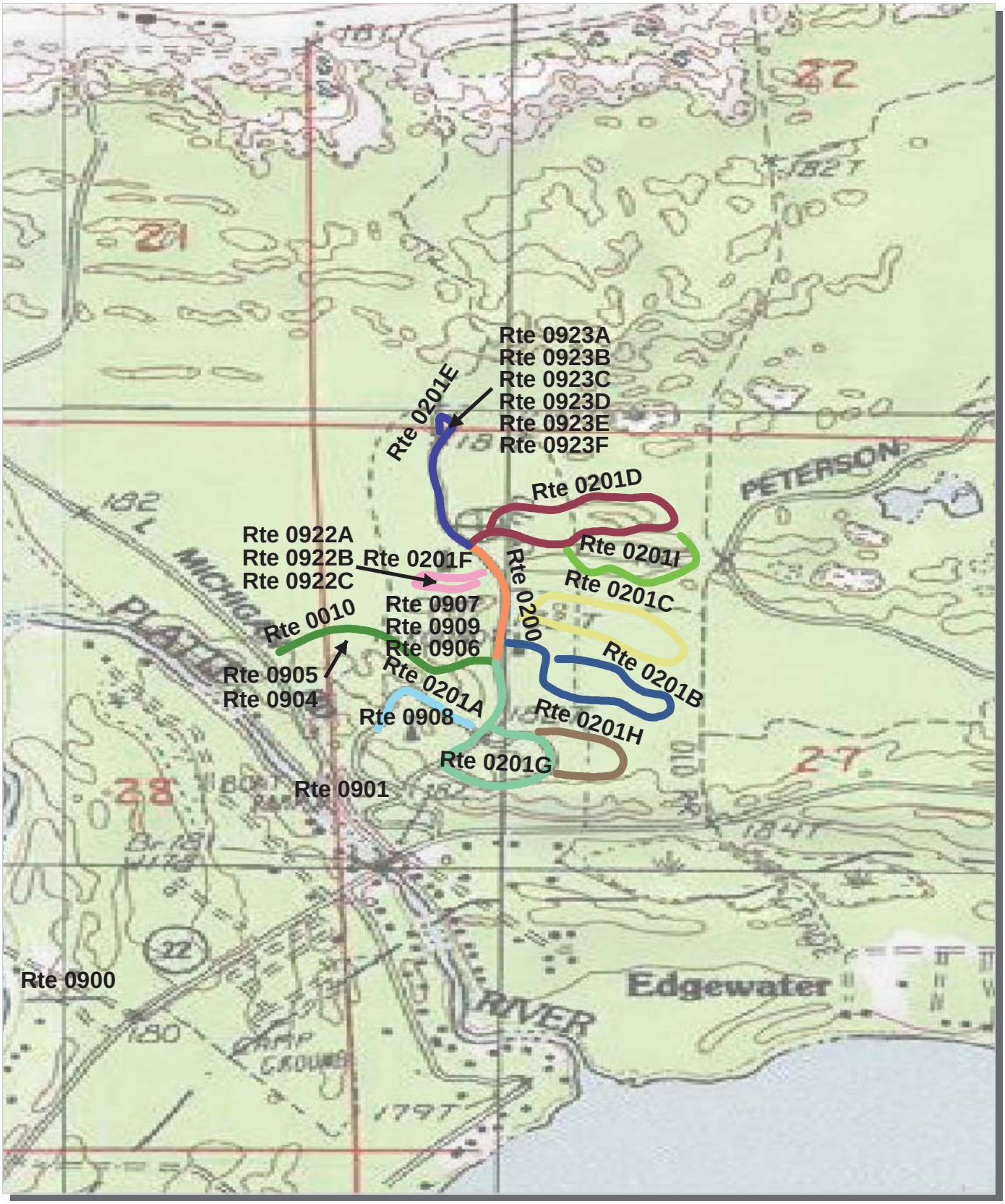


Unique colors used to differentiate routes

0.25 0.125 0 0.25 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Location
Area Map 4

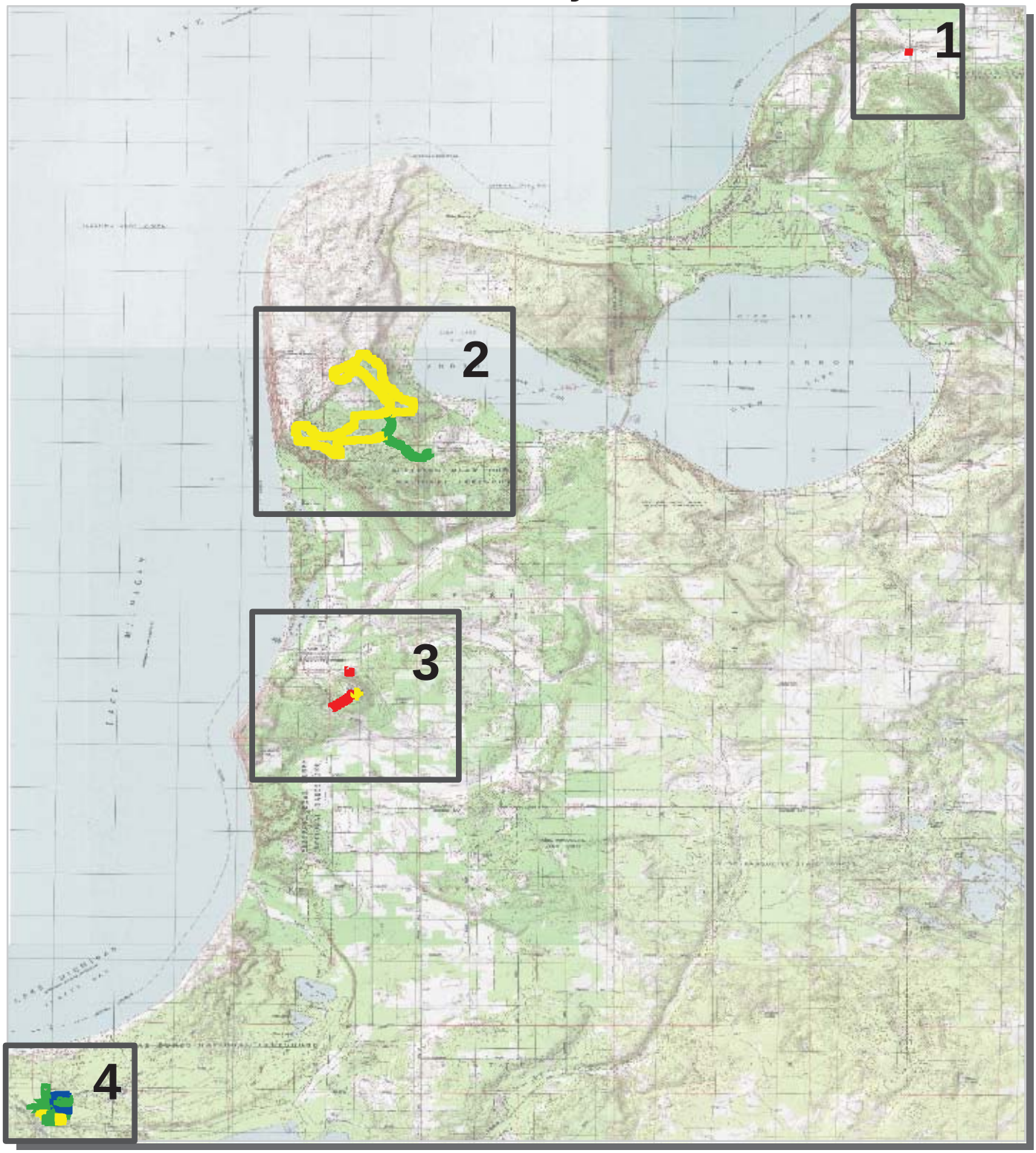


Unique colors used to differentiate routes

0.25 0.125 0 0.25 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Condition Key Map
PCR - Mile by Mile



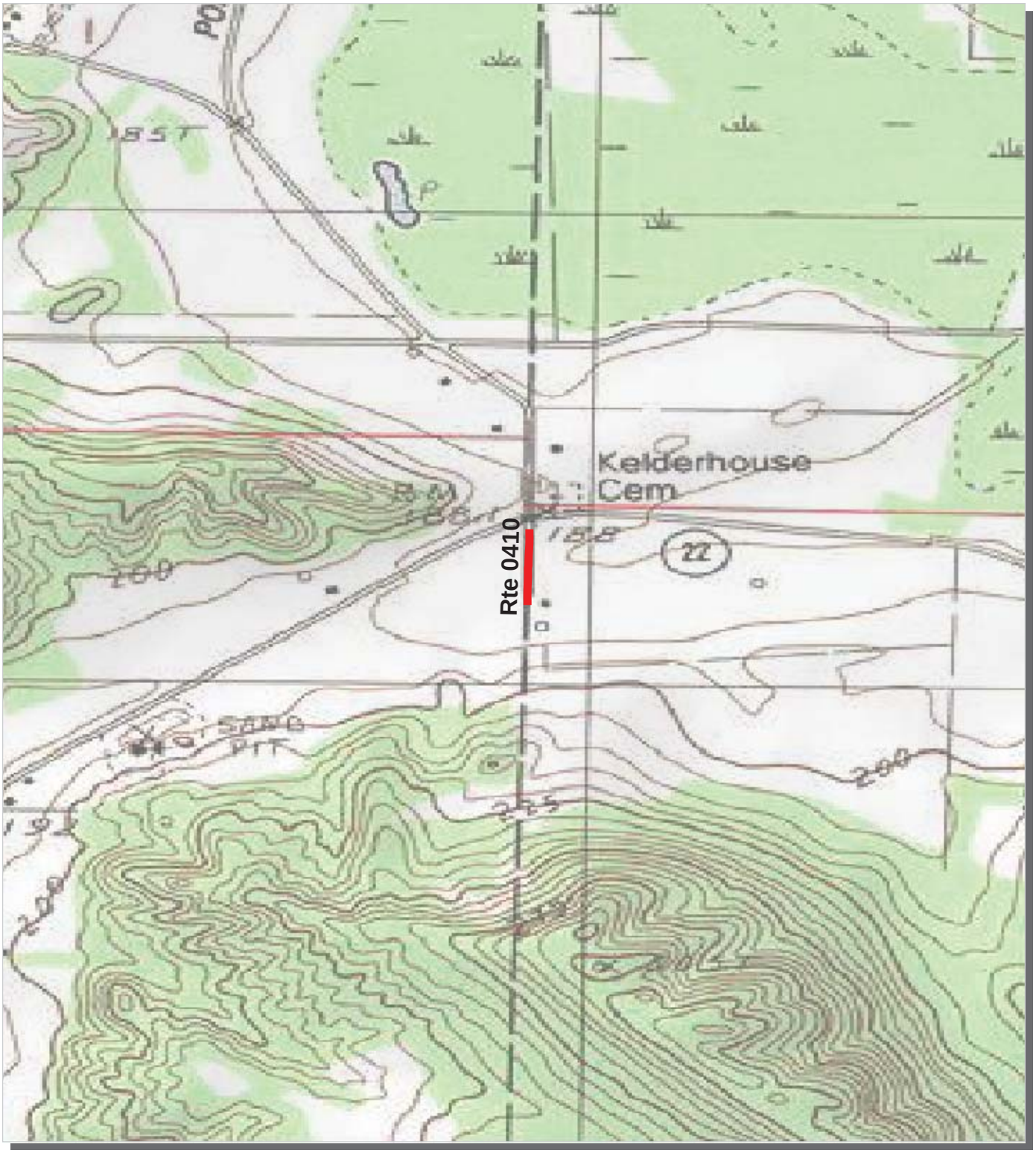
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

3 1.5 0 3 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Condition Area Map 1
PCR - Mile by Mile



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

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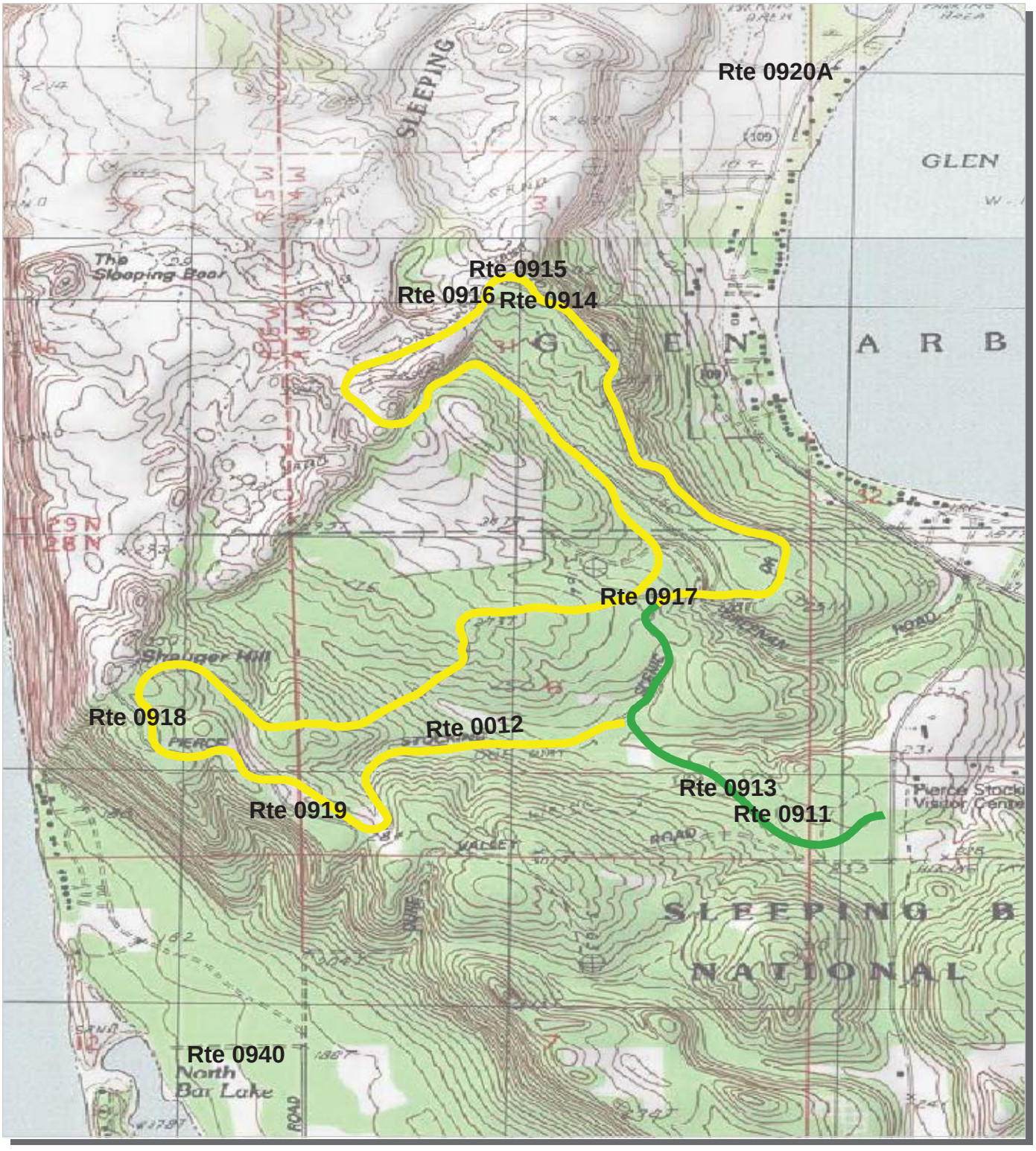
0.25 0.125 0 0.25 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Condition Area Map 2
PCR - Mile by Mile



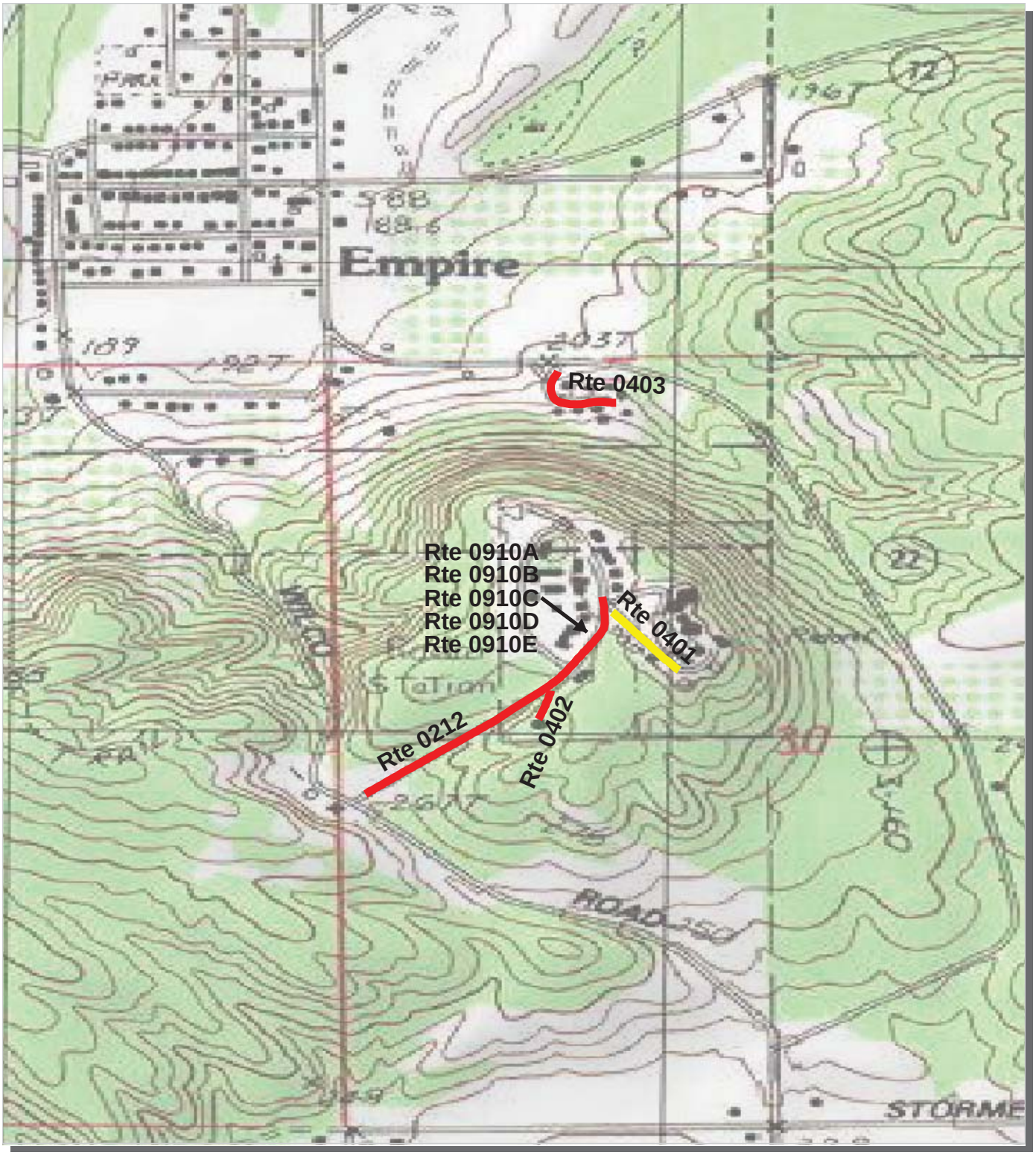
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

0.5 0.25 0 0.5 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Condition Area Map 3
PCR - Mile by Mile



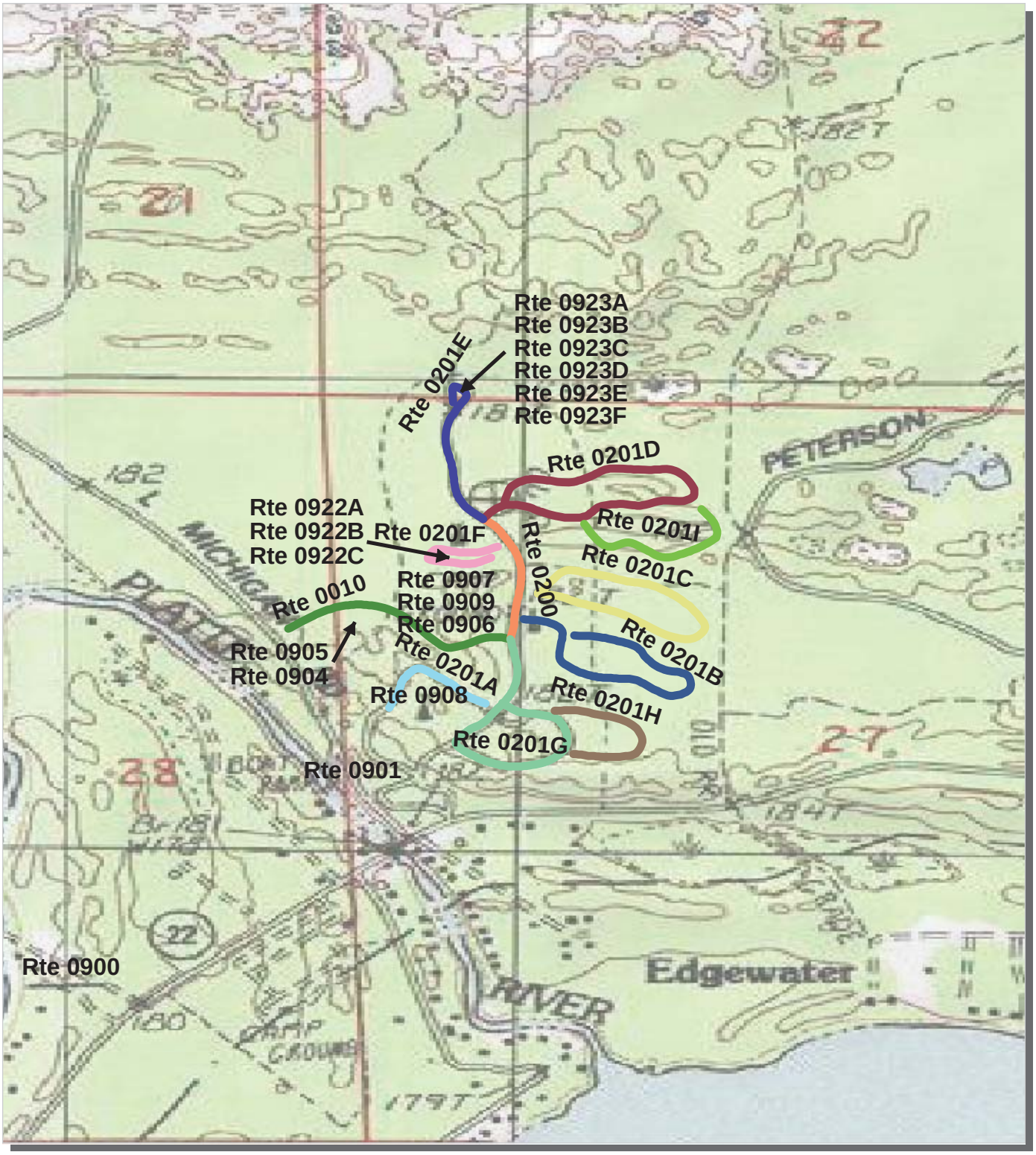
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

0.25 0.125 0 0.25 Miles

N

Sleeping Bear Dunes National Lakeshore
Route Condition Area Map 4
PCR - Mile by Mile



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

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

0.25 0.125 0 0.25 Miles

N

NPS/RIP Route ID Report

(Numerical By Route #)

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Red text denotes approx. mileage

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

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Sleeping Bear Dunes National Lakeshore

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0010	1397	PLATTE RIVER CAMPGROUND ACCESS ROAD	FROM LAKE MICHIGAN ROAD	TO ROUTE 0200	0.25	0.00	0.25	1	2	0	AS
0011	38925	TRAILS END ROAD	FROM STATE HIGHWAY 22	TO ROUTE 0924	0.00	0.77	0.77	1	1	0	OT
0012	39082	STOCKING SCENIC DRIVE	FROM STATE HIGHWAY 109	TO END OF LOOP	6.50	0.00	6.50	1	2	0	AS
0013		DUNE CLIMB ROAD	FROM STATE HIGHWAY 109	TO END	0.00	0.13	0.13	1	2	0	GR
0014	39052	D.H. DAY PARK ROAD	FROM STATE HIGHWAY 109	TO END	0.00	0.60	0.60	1	1,2	0	OT
0100	1462	TIESMA ROAD	FROM LAKE MICHIGAN ROAD	TO END	0.00	0.60	0.60	2	1	0	OT
0101	48308	DEER LAKE ROAD	FROM ROUTE 0011	TO END	0.00	0.22	0.22	2	1	0	OT
0102	48364	OTTER LAKE ACCESS ROAD	FROM ROUTE 0011	TO END	0.00	0.05	0.05	2	1	0	OT
0103	48362	OTTER CREEK ROAD	FROM ROUTE 0011	TO END	0.00	0.66	0.66	2	1	0	OT
0105	48361	JUNIPER ROAD	FROM TRAVERSE LAKE ROAD	TO END	0.00	0.90	0.90	2	1	0	OT
0106		D.H. DAY GROUP CAMPGROUND ACCESS ROAD	FROM STATE HIGHWAY 109	TO END OF LOOP	0.00	0.60	0.60	2	1,2	0	OT
0200	1398	PLATTE RIVER CAMPGROUND ROAD	FROM ROUTE 0010	TO INTERSECTIONS OF ROUTE 0201D AND ROUTE 0201E	0.17	0.00	0.17	3	1, 2	0	AS
0201A		PLATTE RIVER CAMPGROUND LOOP A	FROM ROUTE 0201G	TO END	0.15	0.00	0.15	3	1	0	AS
0201B		PLATTE RIVER CAMPGROUND LOOP B	FROM ROUTE 0200	TO END OF LOOP	0.38	0.00	0.38	3	1, 2	0	AS
0201C		PLATTE RIVER CAMPGROUND LOOP C	FROM ROUTE 0200	TO END OF LOOP	0.39	0.00	0.39	3	1, 2	0	AS
0201D		PLATTE RIVER CAMPGROUND LOOP D	FROM ROUTE 0200	TO END OF LOOP	0.46	0.00	0.46	3	1, 2	0	AS
0201E		PLATTE RIVER CAMPGROUND LOOP E	FROM ROUTE 0200	TO END OF LOOP	0.24	0.00	0.24	3	1, 2	0	AS
0201F		PLATTE RIVER CAMPGROUND LOOP F	FROM ROUTE 0200	TO END OF LOOP	0.16	0.00	0.16	3	1, 2	0	AS
0201G		PLATTE RIVER CAMPGROUND LOOP G	FROM ROUTE 0200	TO END OF LOOP	0.39	0.00	0.39	3	1, 2	0	AS
0201H		PLATTE RIVER CAMPGROUND LOOP H	FROM ROUTE 0201G	TO ROUTE 0201G	0.19	0.00	0.19	3	1	0	AS
0201I		PLATTE RIVER CAMPGROUND LOOP I	FROM ROUTE 0201D	TO ROUTE 0201D	0.22	0.00	0.22	3	1	0	AS
0207	39086	DUNE TRAILHEAD ROAD	FROM SLEEPING BEAR DRIVE	TO ROUTE 0932	0.00	0.30	0.30	3	1	0	OT
0208	39135	SCHOOL LAKE ACCESS ROAD	FROM BOHEMAN	TO END	0.00	0.12	0.12	3	1	0	OT
0209	48360	GOOD HARBOR ROAD	FROM LAKE MICHIGAN ROAD	TO END	0.00	0.18	0.18	3	2	0	OT
0210	48369	SHELL LAKE ROAD	FROM LAKE MICHIGAN ROAD	TO END	0.00	0.42	0.42	3	1	0	OT
0211	47990	TUCKER LAKE ROAD	FROM WESTMAN ROAD	TO END	0.00	0.18	0.18	3	1	0	OT
0212	48157	EMPIRE MAINTENANCE AREA ACCESS ROAD (WISNEWSKI RD)	FROM WILCO ROAD	TO ROUTE 0910	0.37	0.00	0.37	5	2	0	AS

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Sleeping Bear Dunes National Lakeshore

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0213	1463	PARK LANE ROAD	FROM STATE HIGHWAY 22	TO PARK BOUNDARY	0.00	0.12	0.12	3	1	0	GR
0401	48139	EMPIRE RADAR TOWER ROAD	FROM ROUTE 0212	TO END AT FENCE	0.12	0.00	0.12	5	1	0	AS
0402	48123	EMPIRE EQUIPMENT STORAGE ROAD	FROM ROUTE 0212	TO END	0.06	0.00	0.06	5	1	0	AS
0403	48119	BARRACKS STREET	FROM STATE HIGHWAY 22	TO END AT RESIDENCES	0.12	0.00	0.12	5	2	0	AS
0410	48202	KLETT FARM ACCESS ROAD	FROM STATE HIGHWAY 22	TO END AT FARM	0.12	0.00	0.12	5	1	0	OC
0411	45911	GUN RANGE ROAD	FROM STATE HIGHWAY 22	TO END	0.00	0.12	0.12	6	1	0	GR
0412		AIR QUALITY ROAD	FROM ESCH ROAD	TO END	0.00	0.13	0.13	5	1	0	OT
0702	49600	0000 ESCH AIR QUALITY MONITORING STATION ROAD	FROM	TO	0.00	0.12	0.12	ZZ		0	GR
0900	38933	LOON LAKE PARKING	FROM STATE HIGHWAY 22	TO PARKING	0.00	0.00	0.00	9		50,897	AS
0901	48186	PLATTE RIVER PICNIC AREA	FROM LAKE MICHIGAN ROAD	TO LAKE MICHIGAN ROAD	0.00	0.00	0.00	9		27,328	AS
0902	38948	EL DORADO PICNIC AND BOAT LAUNCH PARKING	FROM LAKE MICHIGAN ROAD	TO LAKE MICHIGAN ROAD	0.00	0.00	0.00	9		10,774	AS
0903A	38954	PLATTE POINT PARKING AREA A	FROM LAKE MICHIGAN ROAD	TO LAKE MICHIGAN ROAD	0.00	0.00	0.00	9		32,615	AS
0903B		PLATTE POINT PARKING AREA B	FROM LAKE MICHIGAN ROAD	TO PARKING	0.00	0.00	0.00	9		8,297	AS
0904	48169	PLATTE RIVER MAINTENANCE SHOP	FROM ROUTE 0010	TO PARKING	0.00	0.00	0.00	9		8,733	AS
0905	48173	PLATTE RIVER RANGER STATION EMPLOYEE PARKING	FROM ROUTE 0904	TO PARKING	0.00	0.00	0.00	9		4,392	AS
0906	48178	PLATTE RIVER RANGER STATION VISITOR PARKING	FROM ROUTE 0010	TO ROUTE 0010	0.00	0.00	0.00	9		11,165	AS
0907	48019	PLATTE RIVER CAMPGROUND DUMP STATION	FROM ROUTE 0010	TO ROUTE 0010	0.00	0.00	0.00	9		8,740	AS
0908		PLATTE RIVER CAMPGROUND HANDICAPPED AMPHITHEATER ACCESS PARKING	FROM ROUTE 0201A	TO PARKING	0.00	0.00	0.00	9		2,285	AS
0909	48162	PLATTE RIVER CAMPGROUND FIREWOOD PARKING	FROM ROUTE 0200	TO PARKING	0.00	0.00	0.00	9		904	AS
0910A		EMPIRE MAINTENANCE AREA A	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		74,696	AS
0910B		EMPIRE MAINTENANCE AREA B	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		1,270	AS
0910C		EMPIRE MAINTENANCE AREA C	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		1,471	AS
0910D		EMPIRE MAINTENANCE AREA D	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		1,069	AS
0910E		EMPIRE MAINTENANCE AREA E	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		1,235	AS
0910F		EMPIRE MAINTENANCE AREA F	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		16,283	GR

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Sleeping Bear Dunes National Lakeshore

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0910G		EMPIRE MAINTENANCE AREA G	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		4,992	GR
0910H		EMPIRE MAINTENANCE AREA H	FROM ROUTE 0212	TO PARKING	0.00	0.00	0.00	9		761	GR
0911	39083	STOCKING SCENIC DRIVE TRAILER PARKING	FROM ROUTE 0012	TO PARKING	0.00	0.00	0.00	9		44,944	OC
0913		STOCKING SCENIC DRIVE U-TURN	FROM ROUTE 0012	TO ROUTE 0012	0.00	0.00	0.00	9		5,296	OC
0914	39041	PICNIC MOUNTAIN PARKING	FROM ROUTE 0012	TO ROUTE 0012	0.00	0.00	0.00	9		17,383	OC
0915	39042	DUNE OVERLOOK PARKING	FROM ROUTE 0012	TO PARKING	0.00	0.00	0.00	9		18,111	OC
0916	39049	COTTONWOOD TRAIL PARKING	FROM ROUTE 0012	TO PARKING	0.00	0.00	0.00	9		12,177	OC
0917		EMERGENCY CUT-OFF ROAD	FROM ROUTE 0012	TO ROUTE 0012	0.00	0.00	0.00	9		3,540	OC
0918	39048	LAKE MICHIGAN OVERLOOK PARKING	FROM ROUTE 0012	TO ROUTE 0012	0.00	0.00	0.00	9		29,384	OC
0919	39044	NORTHBAR OVERLOOK AND PICNIC PARKING	FROM ROUTE 0012	TO ROUTE 0012	0.00	0.00	0.00	9		28,433	OC
0920A	39056	DUNE CLIMB PARKING A	FROM STATE HIGHWAY 109	TO PARKING	0.00	0.00	0.00	9		13,972	AS
0920B		DUNE CLIMB PARKING B	FROM ROUTE 0920A	TO PARKING	0.00	0.00	0.00	9		139,039	GR
0921	27691	MARITIME MUSEUM PARKING	FROM SLEEPING BEAR DRIVE	TO PARKING	0.00	0.00	0.00	9		21,020	AS
0922A		PLATTE RIVER GROUP CAMPGROUND PARKING A	FROM ROUTE 0201F	TO PARKING	0.00	0.00	0.00	9		2,102	AS
0922B		PLATTE RIVER GROUP CAMPGROUND PARKING B	FROM ROUTE 0201F	TO PARKING	0.00	0.00	0.00	9		2,261	AS
0922C		PLATTE RIVER GROUP CAMPGROUND PARKING C	FROM ROUTE 0201F	TO PARKING	0.00	0.00	0.00	9		2,427	AS
0923A		PLATTE RIVER WALK-IN CAMPGROUND PARKING A	FROM ROUTE 0201E	TO PARKING	0.00	0.00	0.00	9		742	AS
0923B		PLATTE RIVER WALK-IN CAMPGROUND PARKING B	FROM ROUTE 0201E	TO PARKING	0.00	0.00	0.00	9		1,033	AS
0923C		PLATTE RIVER WALK-IN CAMPGROUND PARKING C	FROM ROUTE 0201E	TO PARKING	0.00	0.00	0.00	9		1,025	AS
0923D		PLATTE RIVER WALK-IN CAMPGROUND PARKING D	FROM ROUTE 0201E	TO PARKING	0.00	0.00	0.00	9		1,077	AS
0923E		PLATTE RIVER WALK-IN CAMPGROUND PARKING E	FROM ROUTE 0201E	TO PARKING	0.00	0.00	0.00	9		790	AS
0923F		PLATTE RIVER WALK-IN CAMPGROUND PARKING F	FROM ROUTE 0201E	TO PARKING	0.00	0.00	0.00	9		739	AS
0924	39112	ALLIGATOR HILL PARKING AREA	FROM STOCKING ROAD	TO PARKING	0.00	0.00	0.00	9		25,000	OT
0925	48293	BAYVIEW PARKING AREA	FROM THORSON ROAD	TO PARKING	0.00	0.00	0.00	9		4,000	OT

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
Red text denotes approx. mileage

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

SLBE

Sleeping Bear Dunes National Lakeshore

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0926	48295	CANNERY PARKING AREA	FROM GLEN HAVEN ROAD	TO PARKING	0.00	0.00	0.00	9		5,000	OT
0927	39145	CRYSTAL RIVER ACCESS PARKING AREA #1	FROM FISHER ROAD	TO PARKING	0.00	0.00	0.00	9		12,150	OT
0928	48359	CRYSTAL RIVER ACCESS PARKING AREA #2	FROM CRYSTAL VIEW ROAD	TO PARKING	0.00	0.00	0.00	9		3,384	OT
0929	39128	GLEN LAKE PARKING AREA	FROM STATE HIGHWAY 109	TO PARKING	0.00	0.00	0.00	9		30,000	OT
0930	39121	PYRAMID POINT PARKING AREA	FROM BASCH ROAD	TO PARKING	0.00	0.00	0.00	9		49,140	OT
0931	48213	SCHOOL LAKE OVERLOOK PARKING AREA	FROM SCHOOL LAKE ACCESS ROAD	TO PARKING	0.00	0.00	0.00	9		4,500	OT
0932		DUNE TRAILHEAD PARKING	FROM ROUTE 0207	TO PARKING	0.00	0.00	0.00	9		100,000	GR
0933		DUNE TRAILHEAD EMPLOYEE PARKING	FROM ROUTE 0207	TO PARKING	0.00	0.00	0.00	9		10,000	GR
0934	39080	WINDY MORAINE TRAIL PARKING	FROM WELCH ROAD	TO PARKING	0.00	0.00	0.00	9		8,000	GR
0935		FIELD OFFICE PARKING	FROM ROUTE 0106	TO PARKING	0.00	0.00	0.00	9		1,000	OT
0936		SCHOOL LAKE ACCESS PARKING AREA	FROM ROUTE 0208	TO PARKING	0.00	0.00	0.00	9		6,000	GR
0937		VANDERHOOF PARKING	FROM STATE HWY 109	TO PARKING	0.00	0.00	0.00	9		12,060	OT
0938		EMPIRE BLUFF PARKING	FROM WILCO ROAD	TO PARKING	0.00	0.00	0.00	9		8,172	GR
0939		OLD INDIAN PARKING	FROM M22	TO PARKING	0.00	0.00	0.00	9		12,960	GR
0940		NORTH BAR ACCESS PARKING	FROM BAR LAKE ROAD	TO PARKING	0.00	0.00	0.00	9		23,821	AS
0941		BASS LAKE PARKING	FROM ROUTE 0011	TO PARKING	0.00	0.00	0.00	9		8,160	OT
				Totals:	10.29	6.21	**16.50**			936,751	

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
Red text denotes approx. mileage

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

General Park Road Functional Classification Table

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

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

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

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

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

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

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

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

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

****

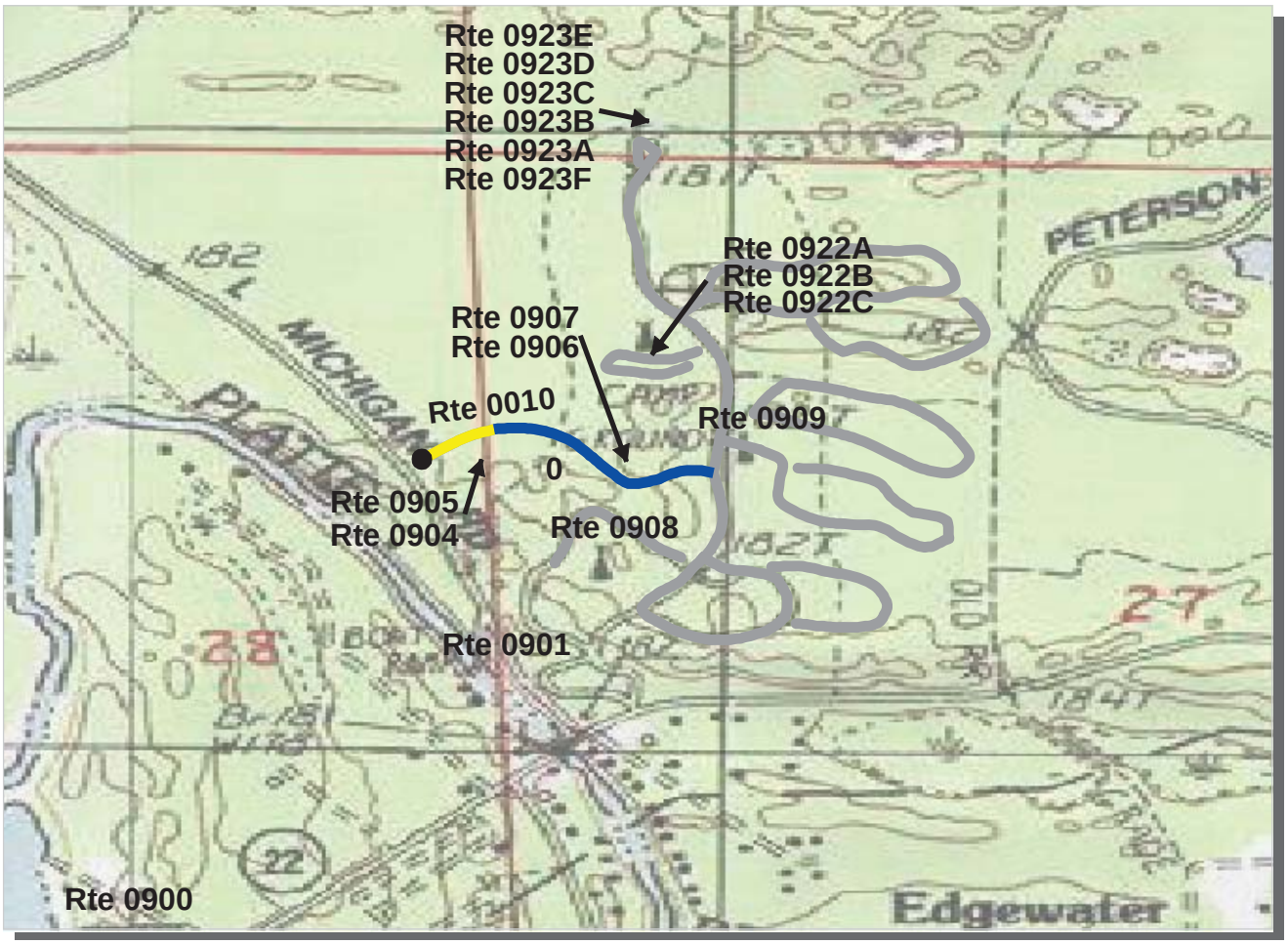
A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed,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

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

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

Surface Type Abbreviations:

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



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

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

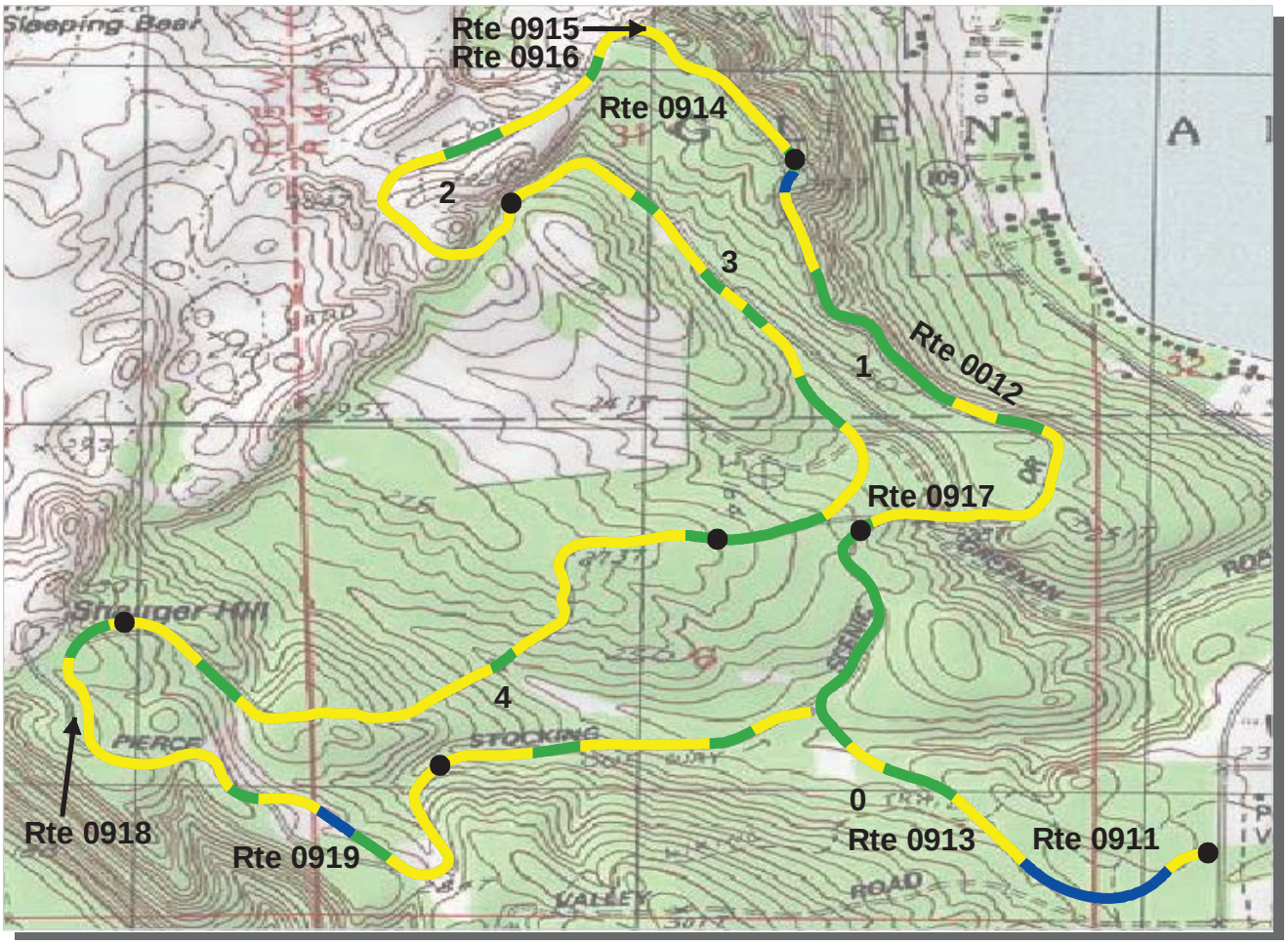
Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0010 Platte River Campground Access Road **TOTAL LENGTH: 0.25 Miles**

Section Number	0				
Section Length (mi)	0.25				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width (ft)	6				
Roadway Condition Information					
PCR (Pavement Condition Rating)	93				
RCI (Roughness Condition Index)	88				
SCR (Surface Condition Rating)	95				
Alligator Cracking Index	100				
Rutting Index	95				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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



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

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

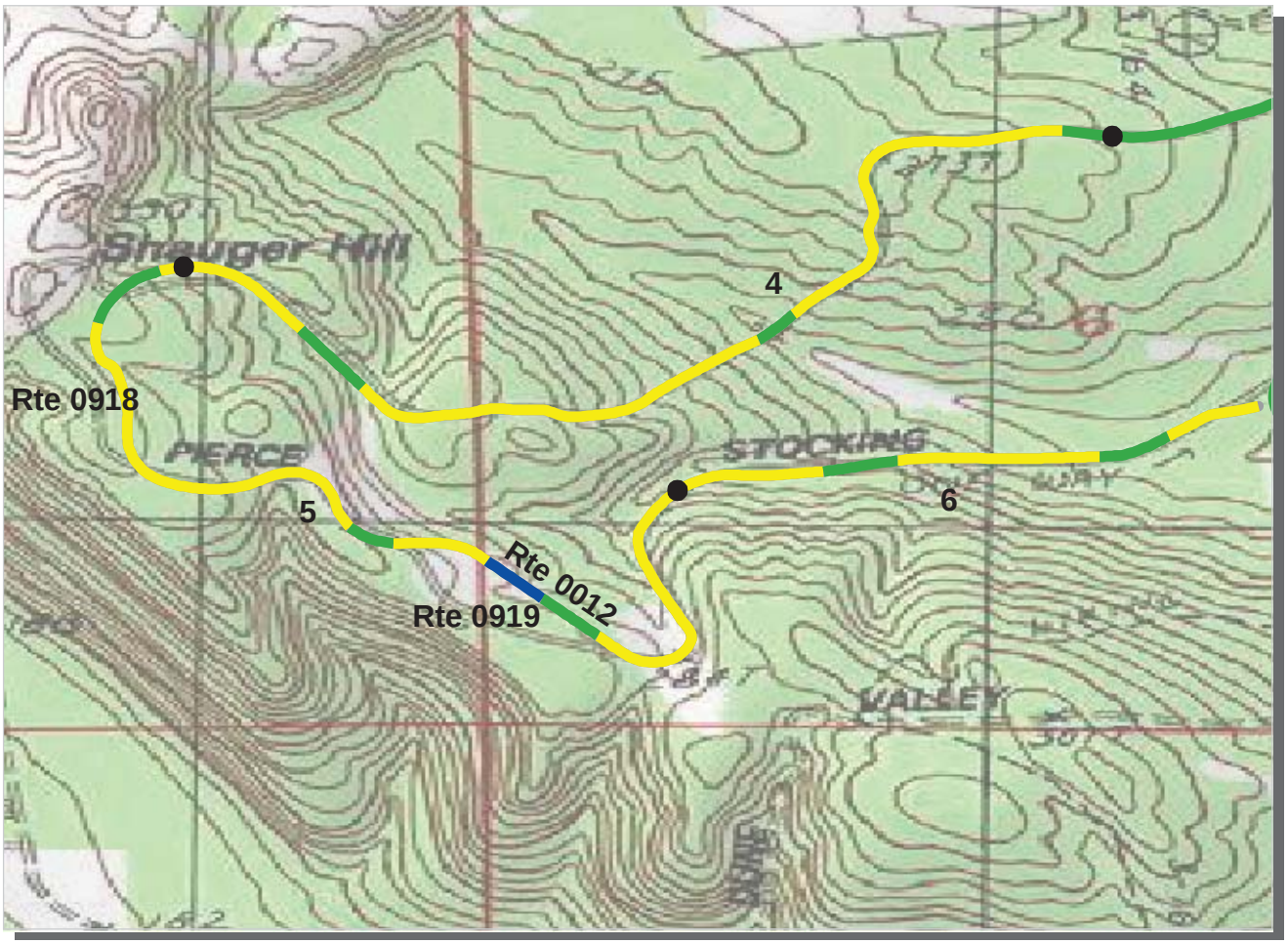
Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0012 Stocking Scenic Drive **TOTAL LENGTH: 6.50 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	1	1	1	1
Paved Width (ft)	24	13	11	12	12
Lane Width (ft)	12	13	11	12	12
Shoulder Width (ft)	7	0	7	9	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	86	81	77	82	79
RCI (Roughness Condition Index)	86	82	82	93	85
SCR (Surface Condition Rating)	86	80	74	74	74
Alligator Cracking Index	100	100	100	100	100
Rutting Index	86	80	74	74	74
Patching Index	100	100	100	100	100
Tranverse Cracking Index	99	100	100	100	100
Longitudinal Cracking Index	100	100	99	100	100
Shoulder Condition Rating	GOOD	N/A	GOOD	GOOD	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

* NC designates data not collected NA designates not applicable

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



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

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

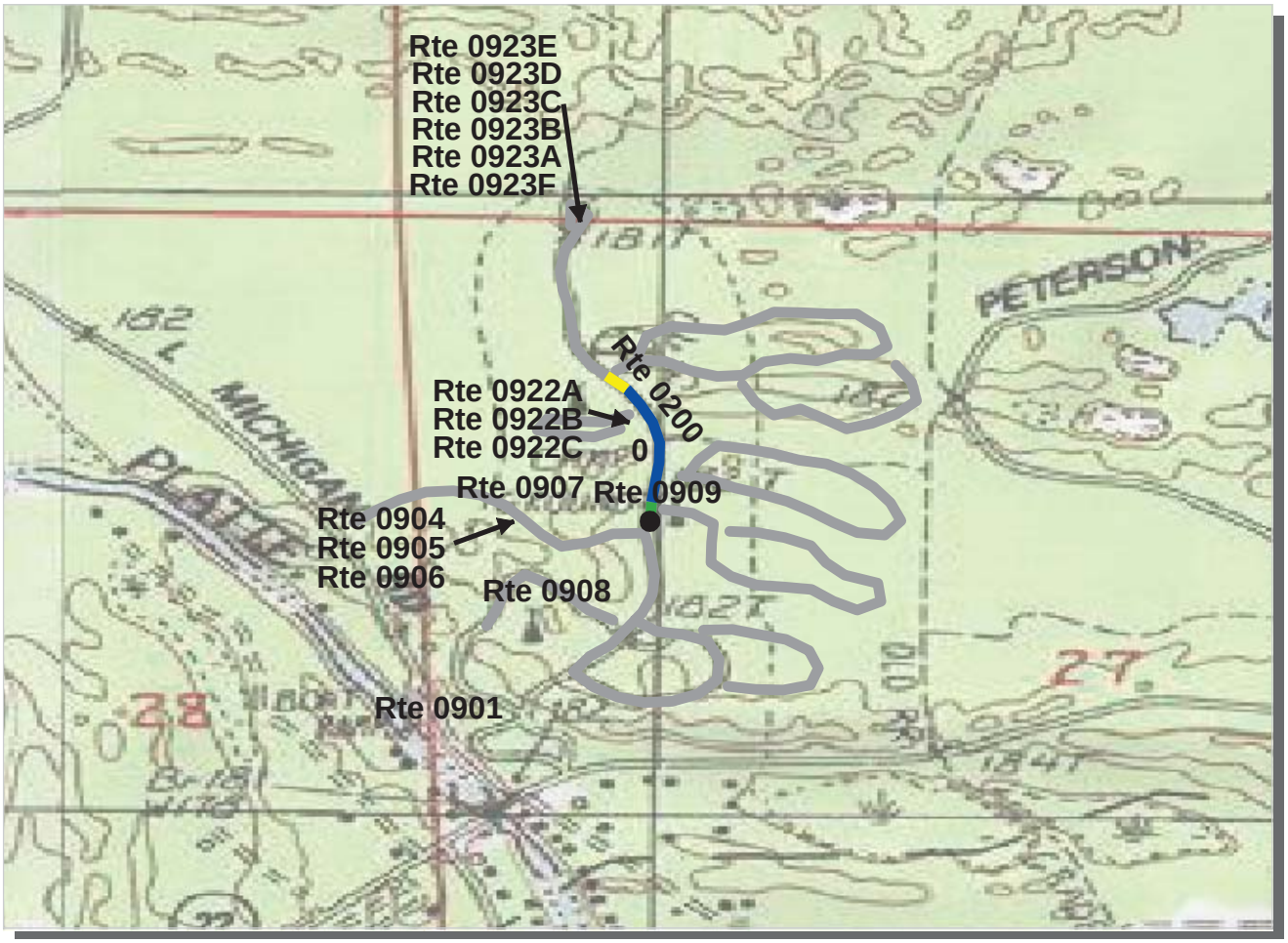
Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0012 Stocking Scenic Drive **TOTAL LENGTH: 6.50 Miles**

Section Number	5	6			
Section Length (mi)	1.00	0.50			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1	1			
Paved Width (ft)	11	11			
Lane Width (ft)	11	11			
Shoulder Width (ft)	9	6			
Roadway Condition Information					
PCR (Pavement Condition Rating)	79	78			
RCI (Roughness Condition Index)	88	92			
SCR (Surface Condition Rating)	73	71			
Alligator Cracking Index	100	100			
Rutting Index	73	71			
Patching Index	100	100			
Tranverse Cracking Index	99	100			
Longitudinal Cracking Index	100	100			
Shoulder Condition Rating	GOOD	GOOD			
Drainage Condition Rating	GOOD	GOOD			

* NC designates data not collected NA designates not applicable

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



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

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

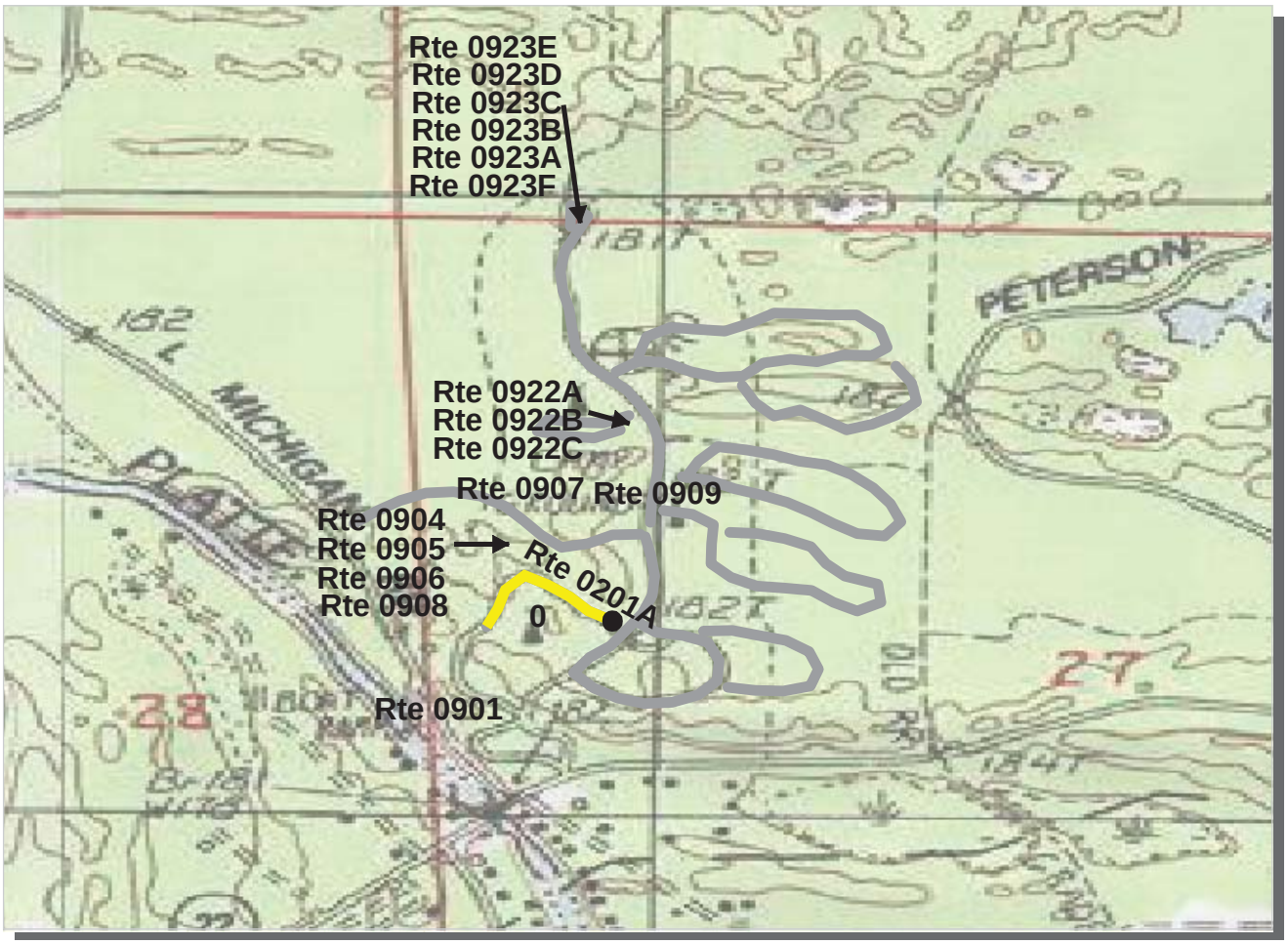
Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0200 Platte River Campground Road **TOTAL LENGTH: 0.17 Miles**

Section Number	0				
Section Length (mi)	0.17				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	11				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	93				
RCI (Roughness Condition Index)	81				
SCR (Surface Condition Rating)	94				
Alligator Cracking Index	100				
Rutting Index	94				
Patching Index	100				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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



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

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

Midwest Region

SLBE : Sleeping Bear Dunes National Lakeshore

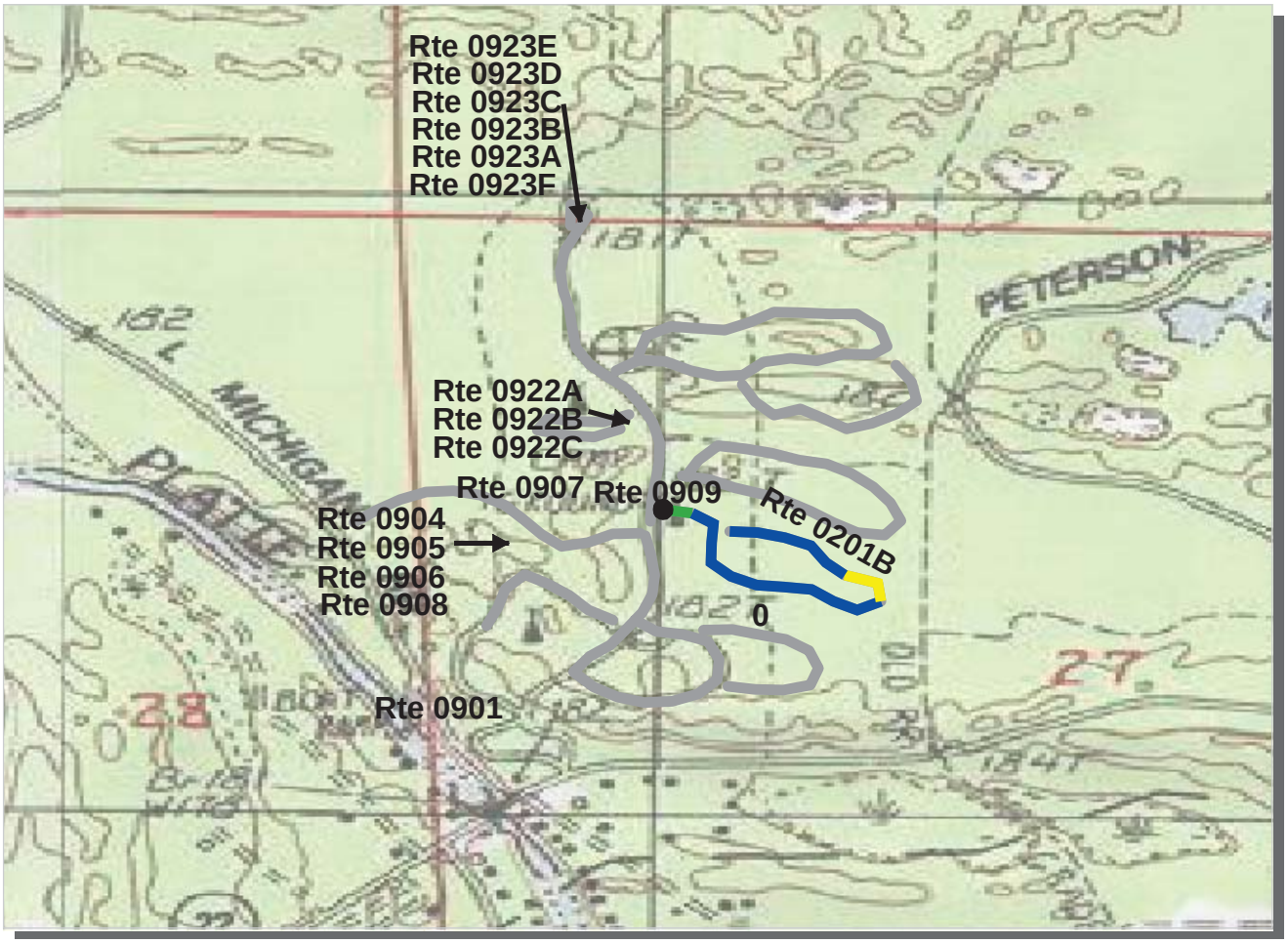
ROUTE: 0201A Platte River Campground Loop A **TOTAL LENGTH: 0.15 Miles**

Section Number	0				
Section Length (mi)	0.15				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	65				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	65				
Alligator Cracking Index	99				
Rutting Index	68				
Patching Index	100				
Tranverse Cracking Index	97				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0201A Platte River Campground Loop A



N

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

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

Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

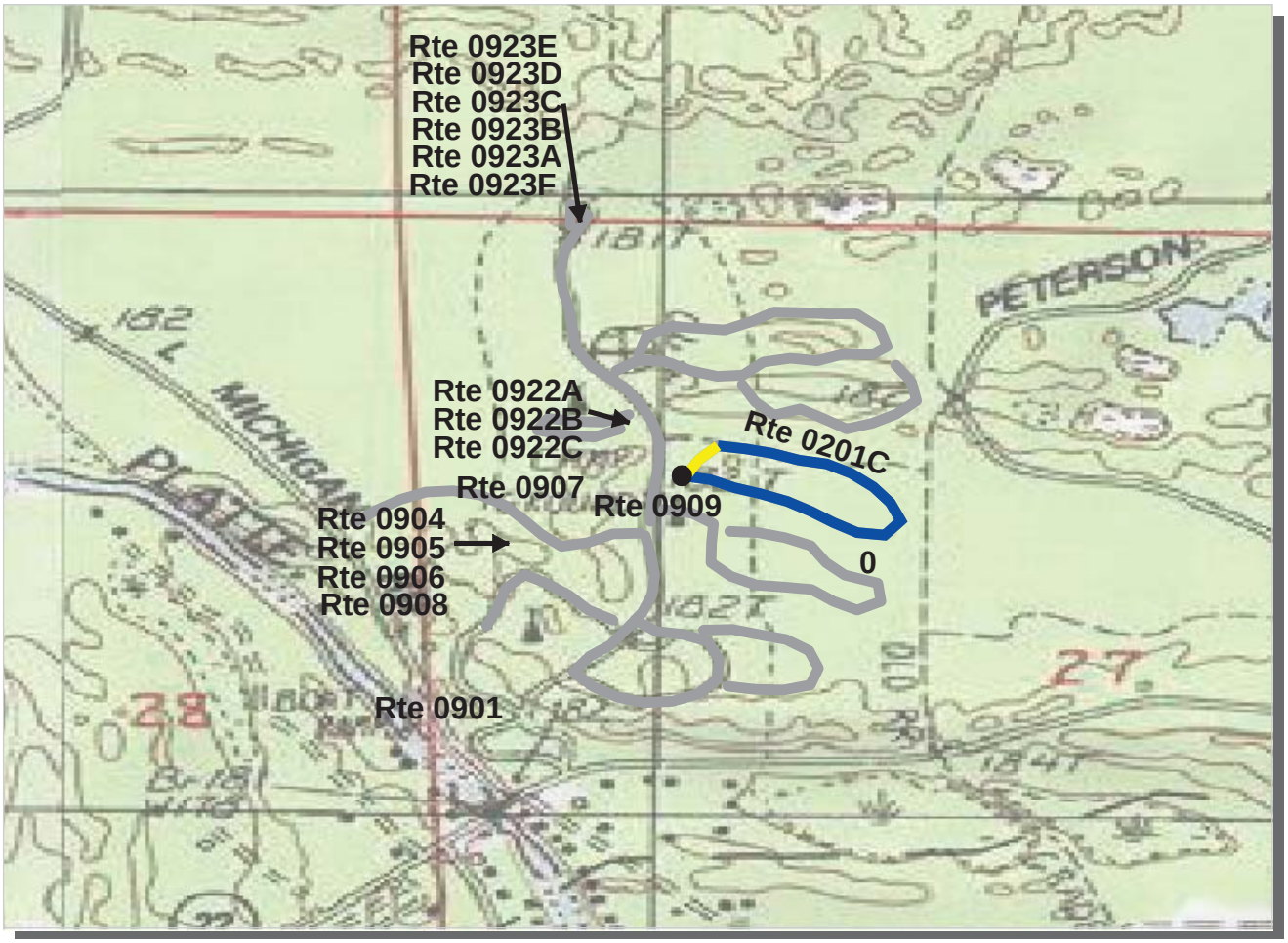
ROUTE: 0201B Platte River Campground Loop B **TOTAL LENGTH: 0.38 Miles**

Section Number	0				
Section Length (mi)	0.38				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	94				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	94				
Alligator Cracking Index	100				
Rutting Index	94				
Patching Index	100				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0201B Platte River Campground Loop B



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

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

Midwest Region

SLBE : Sleeping Bear Dunes National Lakeshore

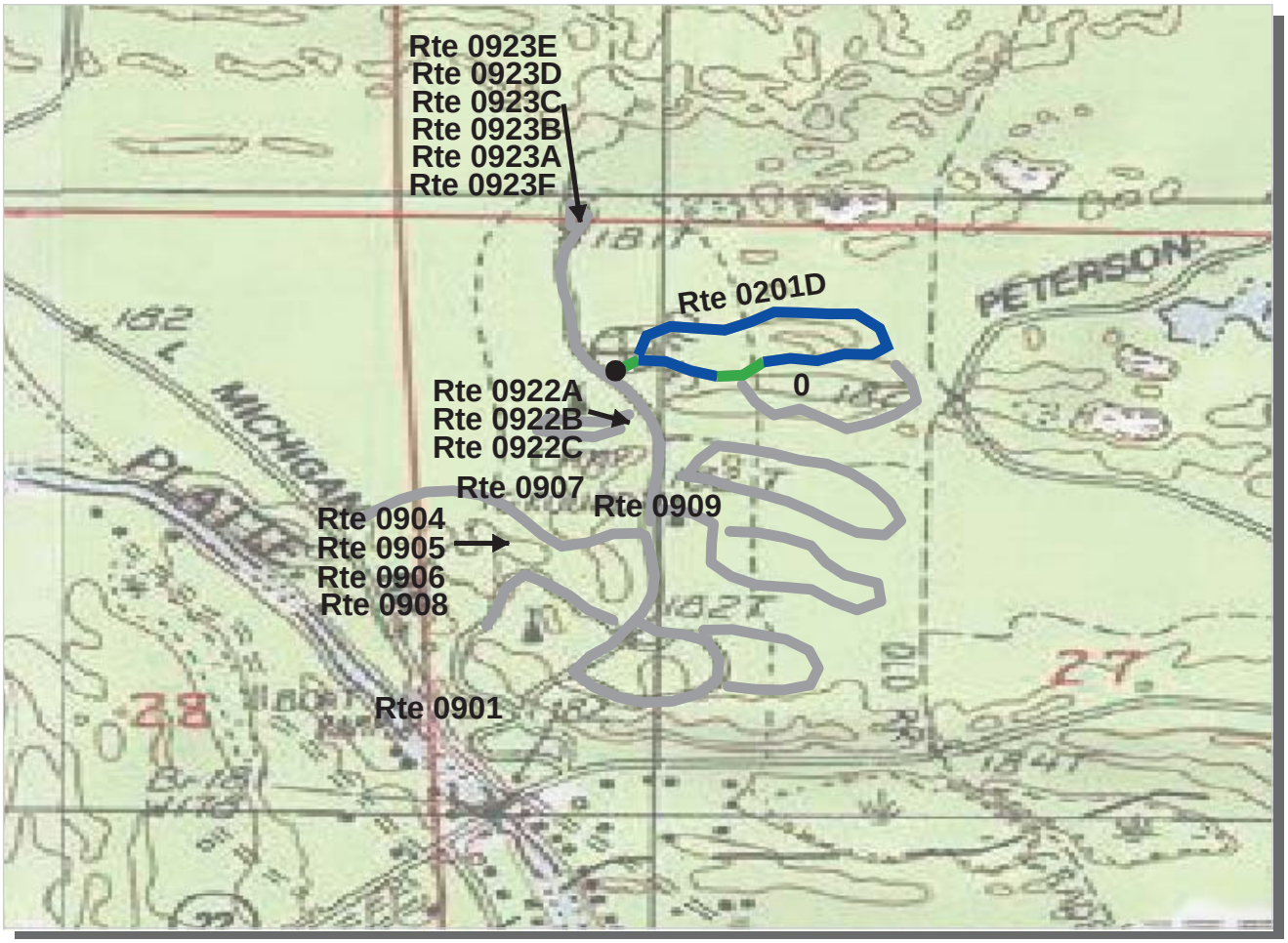
ROUTE: 0201C Platte River Campground Loop C **TOTAL LENGTH: 0.39 Miles**

Section Number	0				
Section Length (mi)	0.39				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	23				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	96				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	96				
Alligator Cracking Index	100				
Rutting Index	96				
Patching Index	100				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0201C Platte River Campground Loop C



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

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

Midwest Region

SLBE : Sleeping Bear Dunes National Lakeshore

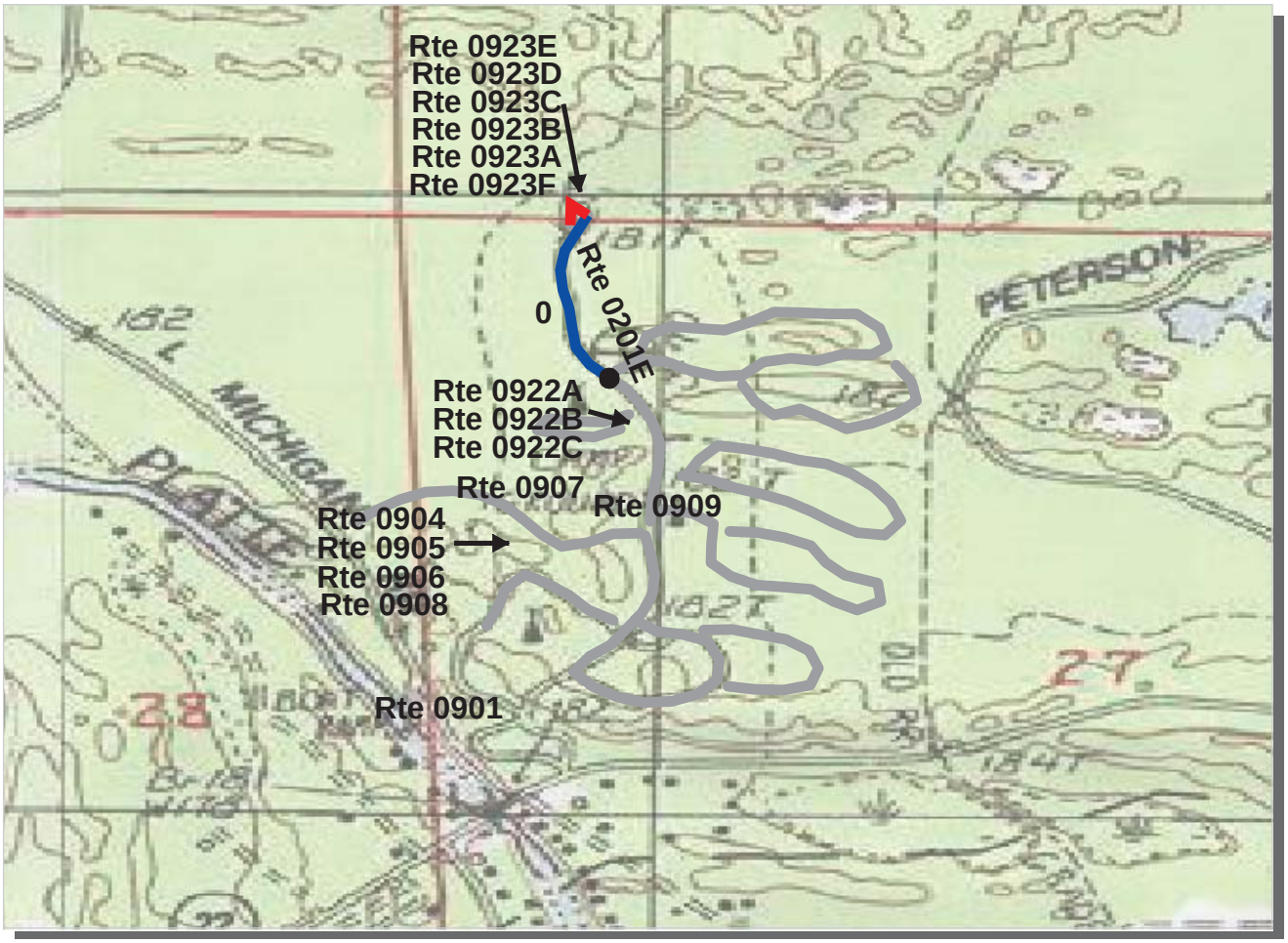
ROUTE: 0201D Platte River Campground Loop D **TOTAL LENGTH: 0.46 Miles**

Section Number	0				
Section Length (mi)	0.46				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	95				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	95				
Alligator Cracking Index	100				
Rutting Index	95				
Patching Index	100				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0201D Platte River Campground Loop D



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

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

Midwest Region

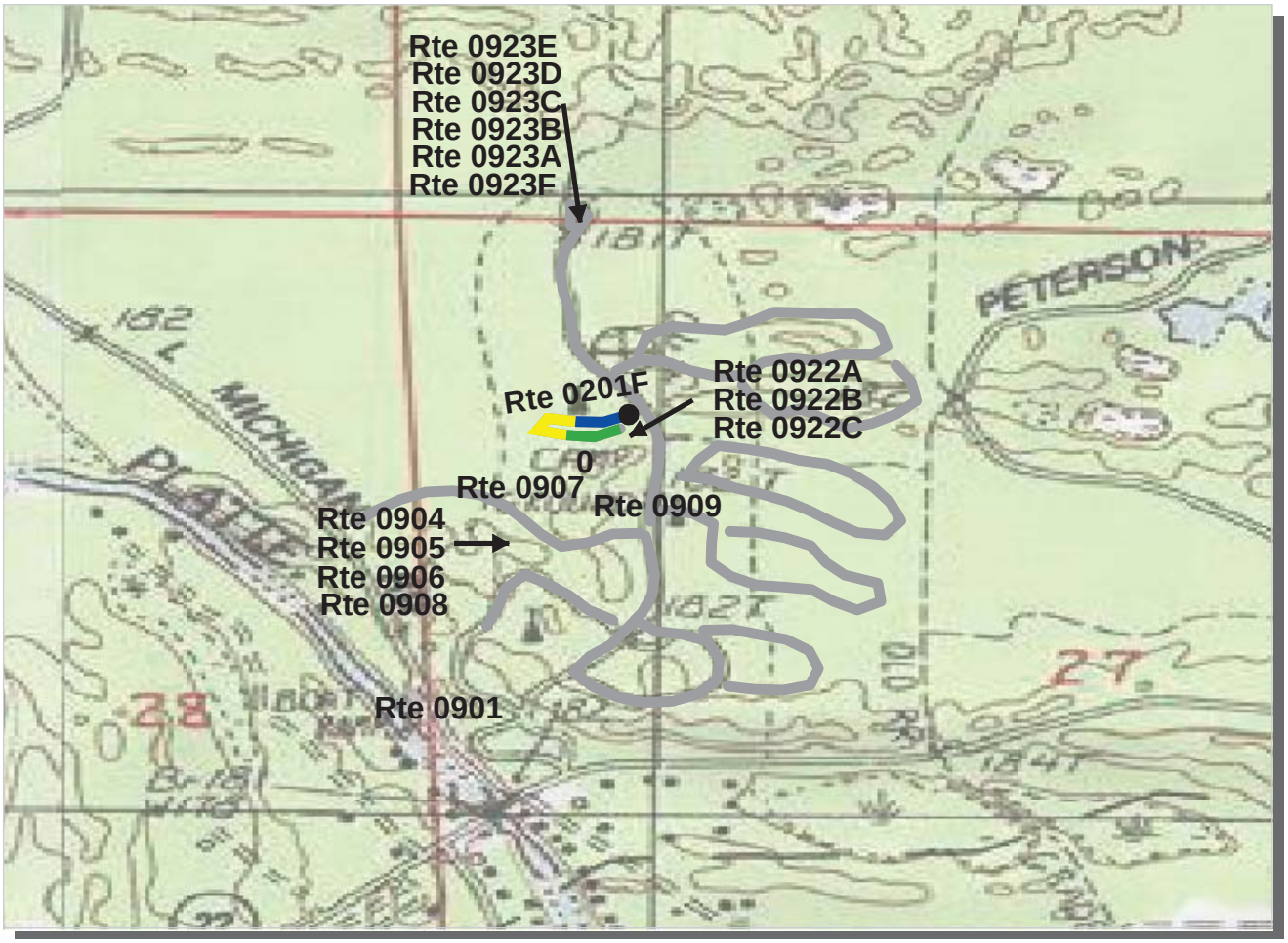
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0201E Platte River Campground Loop E **TOTAL LENGTH: 0.24 Miles**

Section Number	0				
Section Length (mi)	0.24				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	92				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	92				
Alligator Cracking Index	100				
Rutting Index	92				
Patching Index	100				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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



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

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

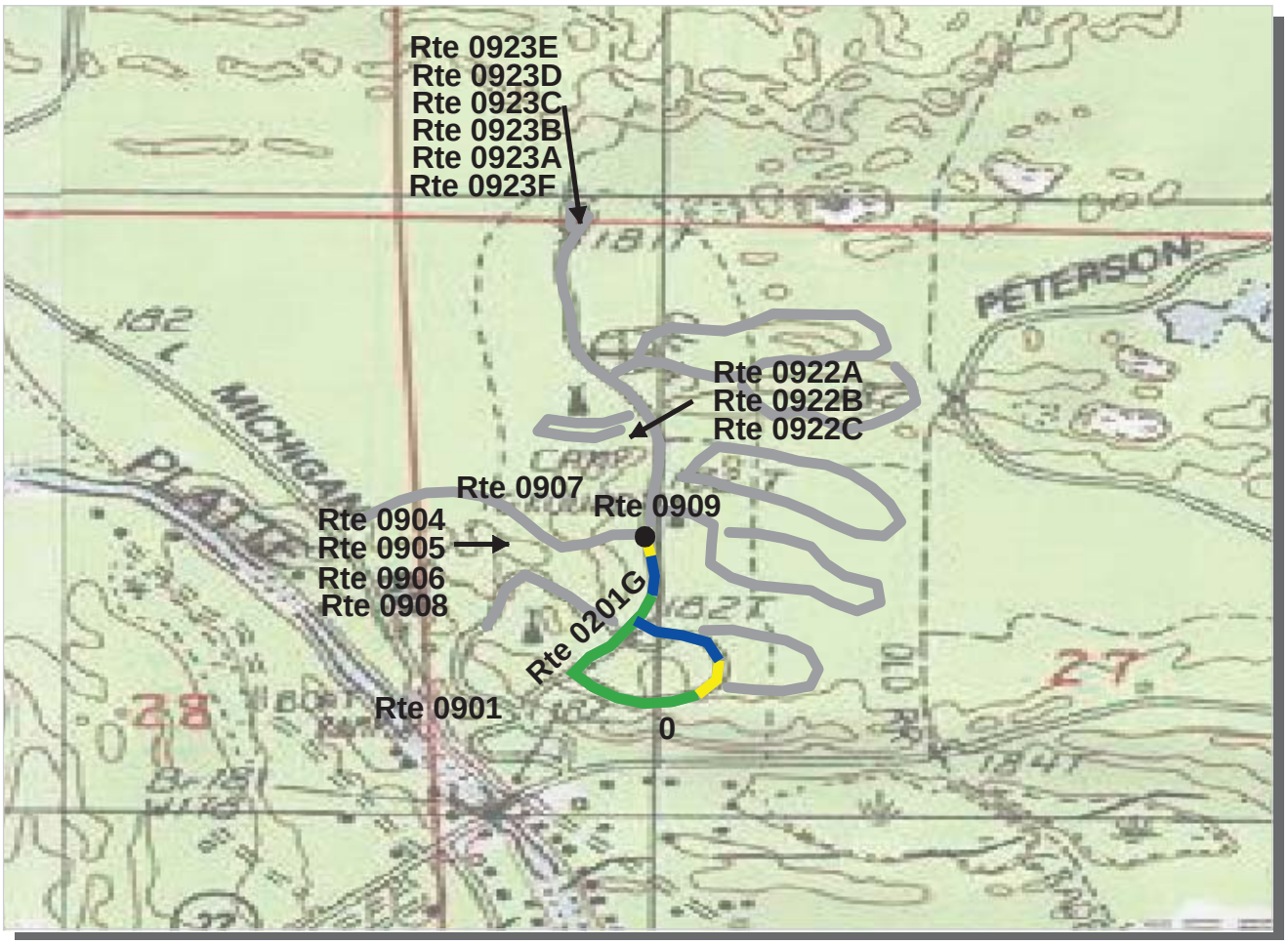
Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0201F Platte River Campground Loop F **TOTAL LENGTH: 0.16 Miles**

Section Number	0				
Section Length (mi)	0.16				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	86				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	86				
Alligator Cracking Index	100				
Rutting Index	86				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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



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

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

Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

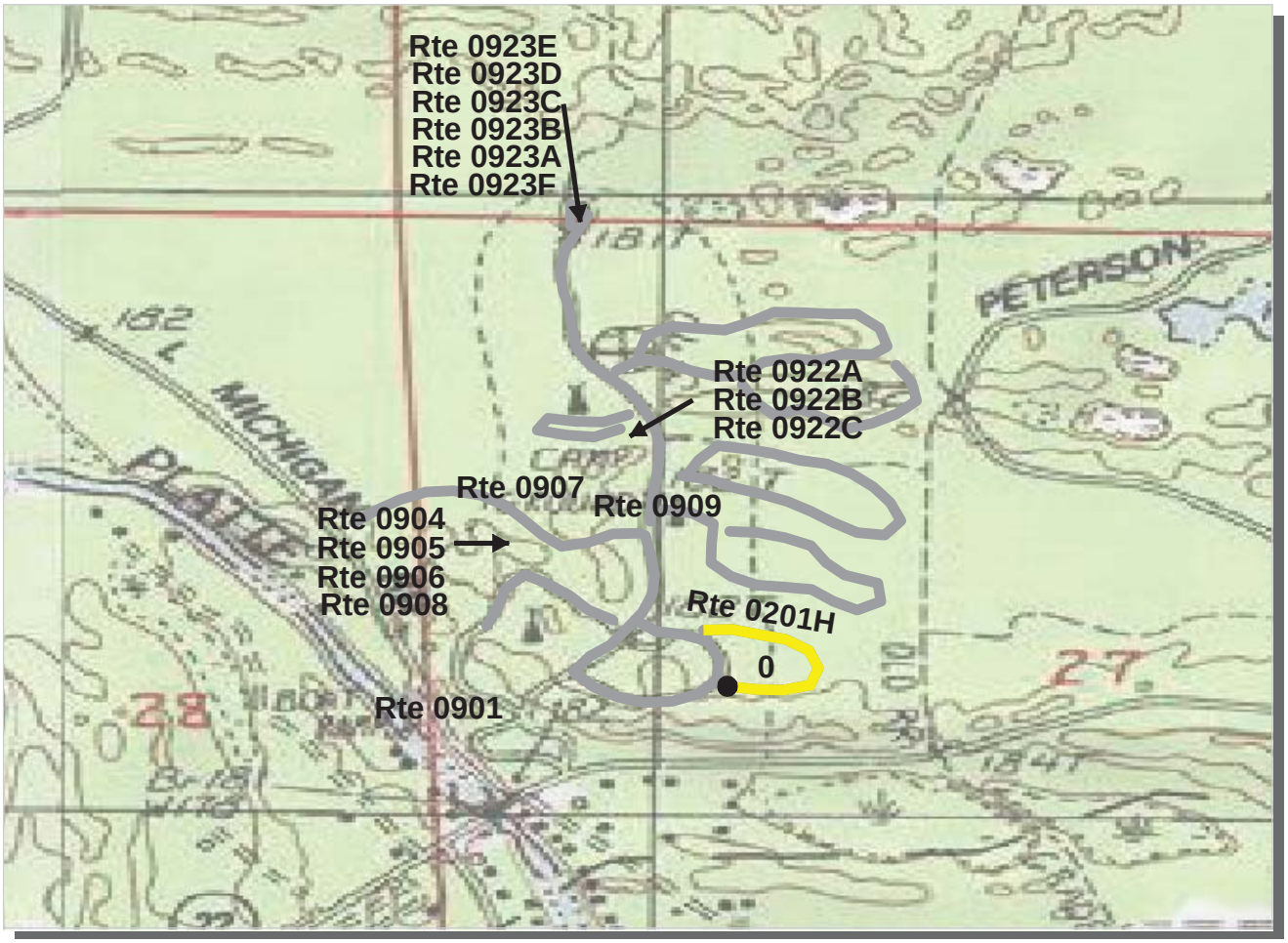
ROUTE: 0201G Platte River Campground Loop G **TOTAL LENGTH: 0.39 Miles**

Section Number	0				
Section Length (mi)	0.39				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	88				
RCI (Roughness Condition Index)	71				
SCR (Surface Condition Rating)	92				
Alligator Cracking Index	100				
Rutting Index	92				
Patching Index	99				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0201G Platte River Campground Loop G



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

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

Midwest Region

SLBE : Sleeping Bear Dunes National Lakeshore

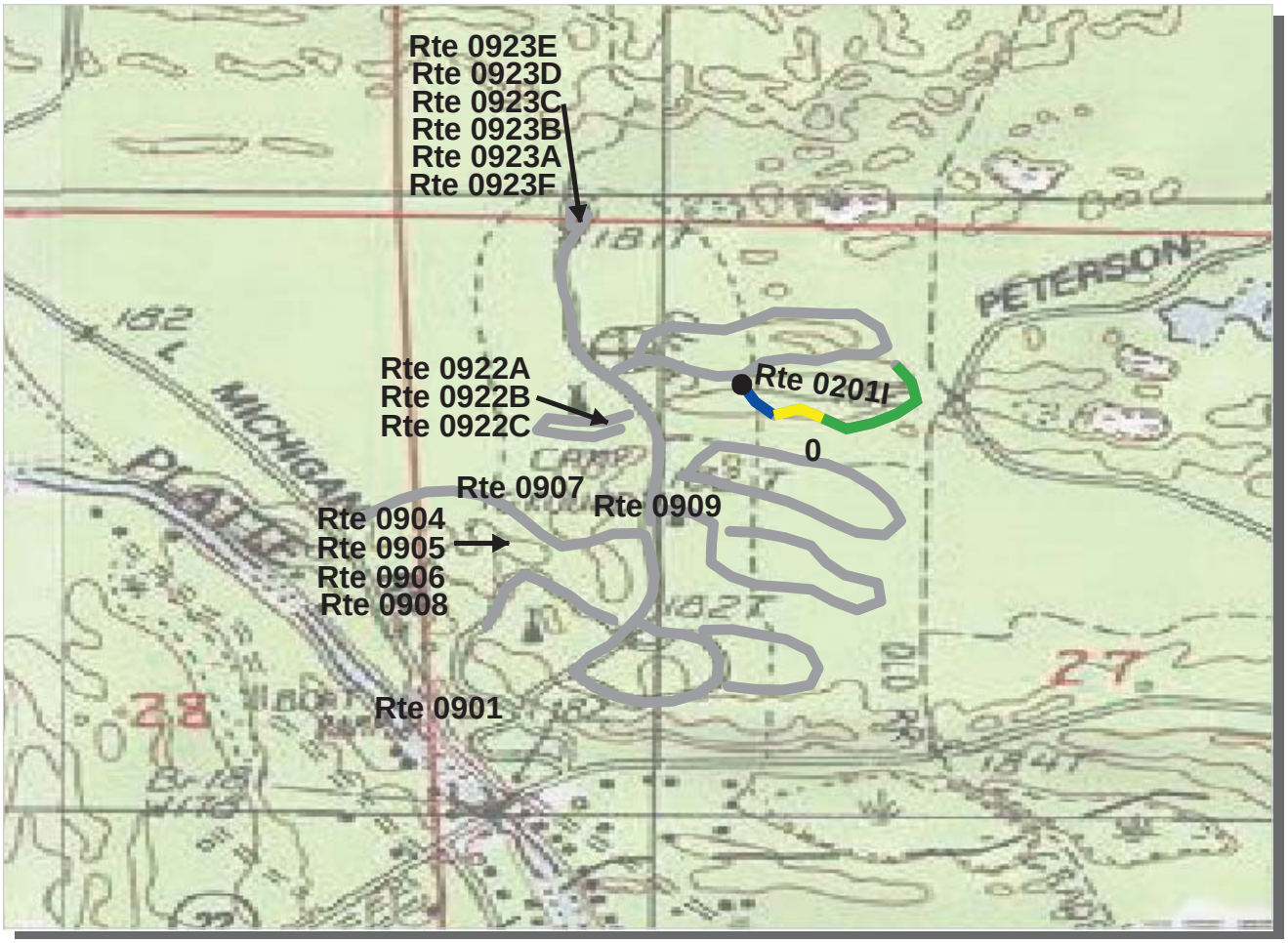
ROUTE: 0201H Platte River Campground Loop H **TOTAL LENGTH: 0.19 Miles**

Section Number	0				
Section Length (mi)	0.19				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	81				
RCI (Roughness Condition Index)	41				
SCR (Surface Condition Rating)	85				
Alligator Cracking Index	100				
Rutting Index	85				
Patching Index	100				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0201H Platte River Campground Loop H



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

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

Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

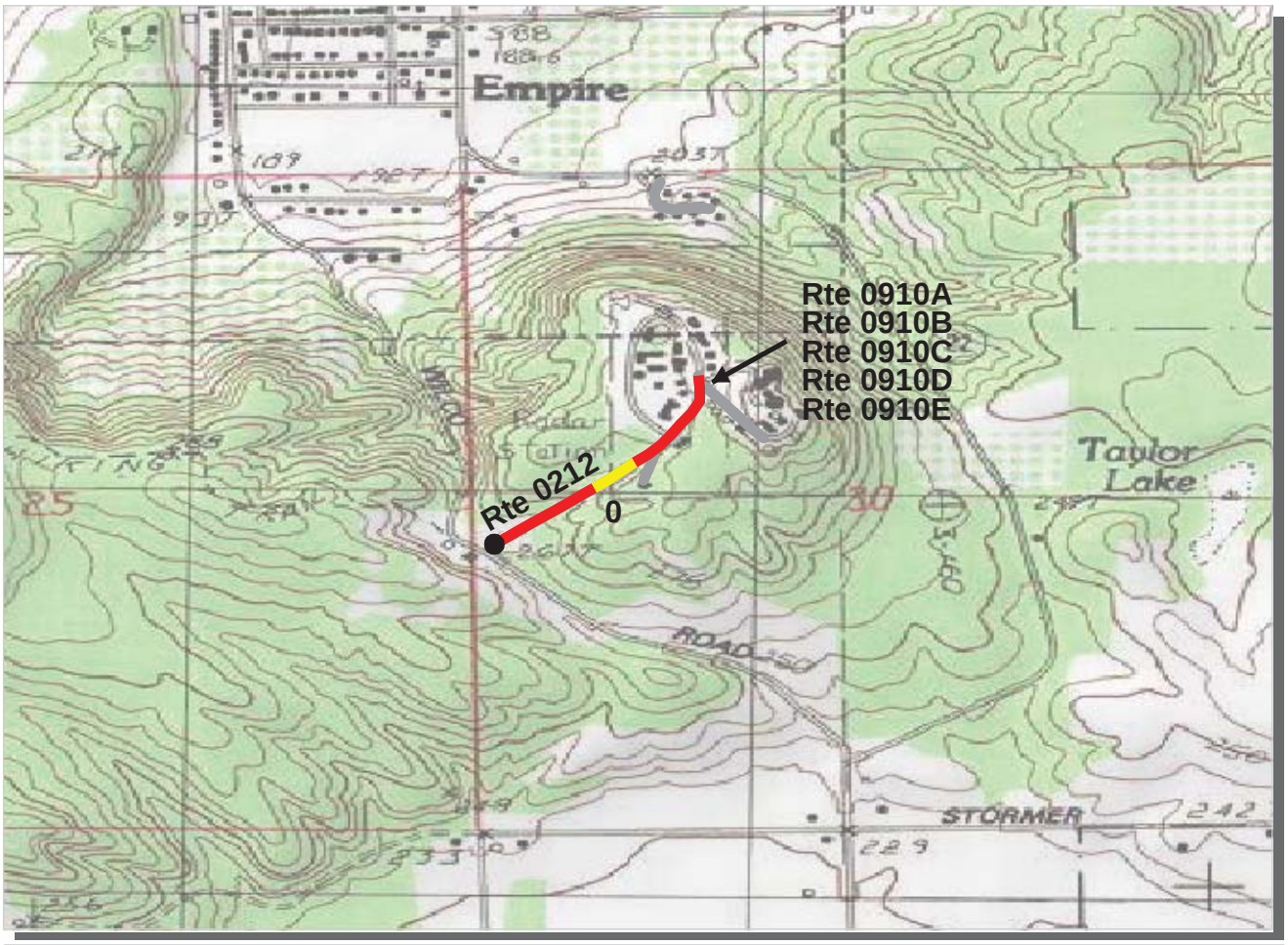
ROUTE: 0201I Platte River Campground Loop I **TOTAL LENGTH: 0.22 Miles**

Section Number	0				
Section Length (mi)	0.22				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	88				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	88				
Alligator Cracking Index	100				
Rutting Index	88				
Patching Index	100				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0201I Platte River Campground Loop I



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

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

Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

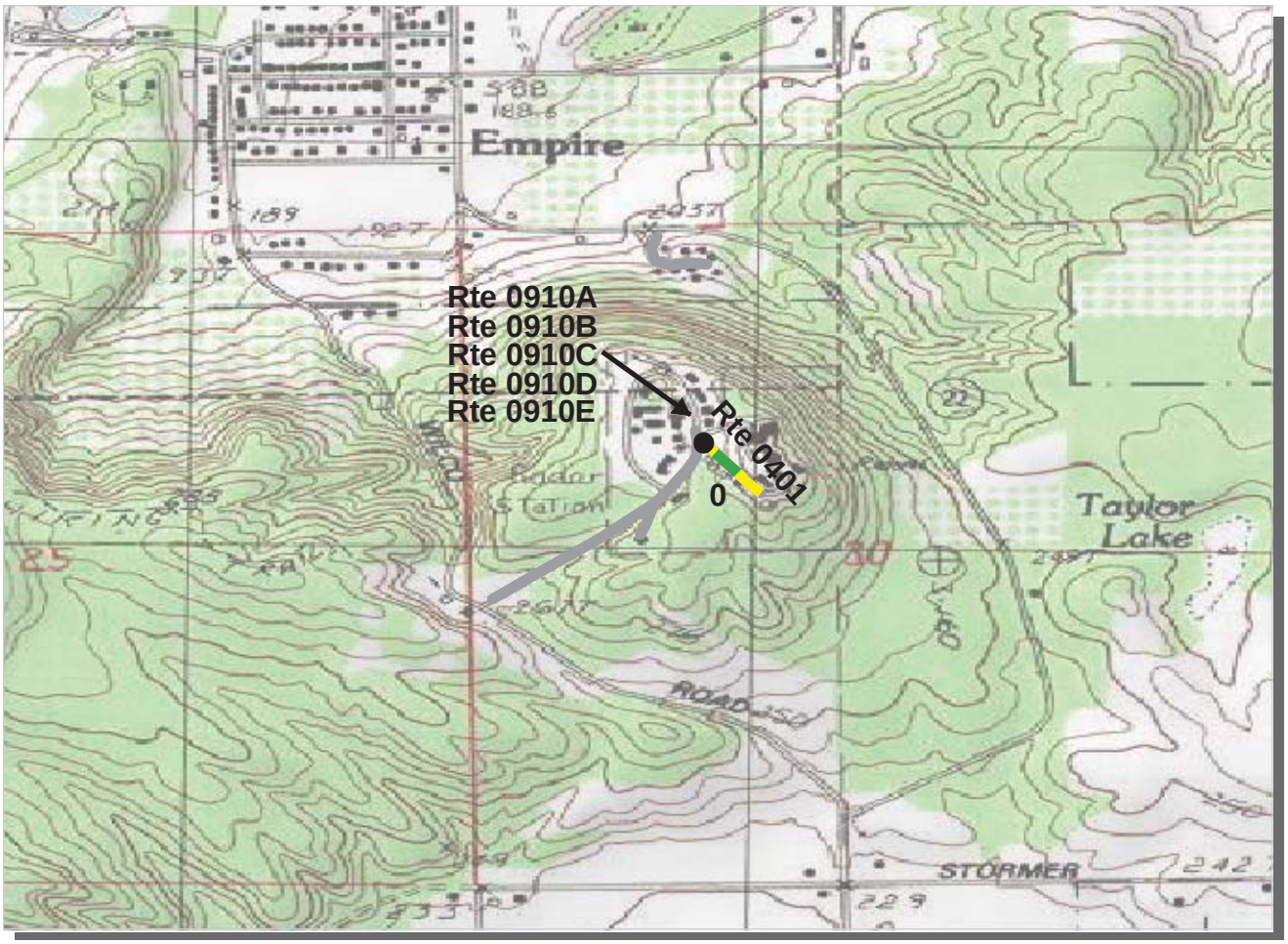
ROUTE: 0212 Empire Maintenance Area Access Road (Wisnewski Rd) **TOTAL LENGTH: 0.37 Miles**

Section Number	0				
Section Length (mi)	0.37				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	12				
Shoulder Width (ft)	9				
Roadway Condition Information					
PCR (Pavement Condition Rating)	37				
RCI (Roughness Condition Index)	58				
SCR (Surface Condition Rating)	26				
Alligator Cracking Index	42				
Rutting Index	76				
Patching Index	99				
Tranverse Cracking Index	98				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0212 Empire Maintenance Area Access Road (Wisnewski Rd)



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

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

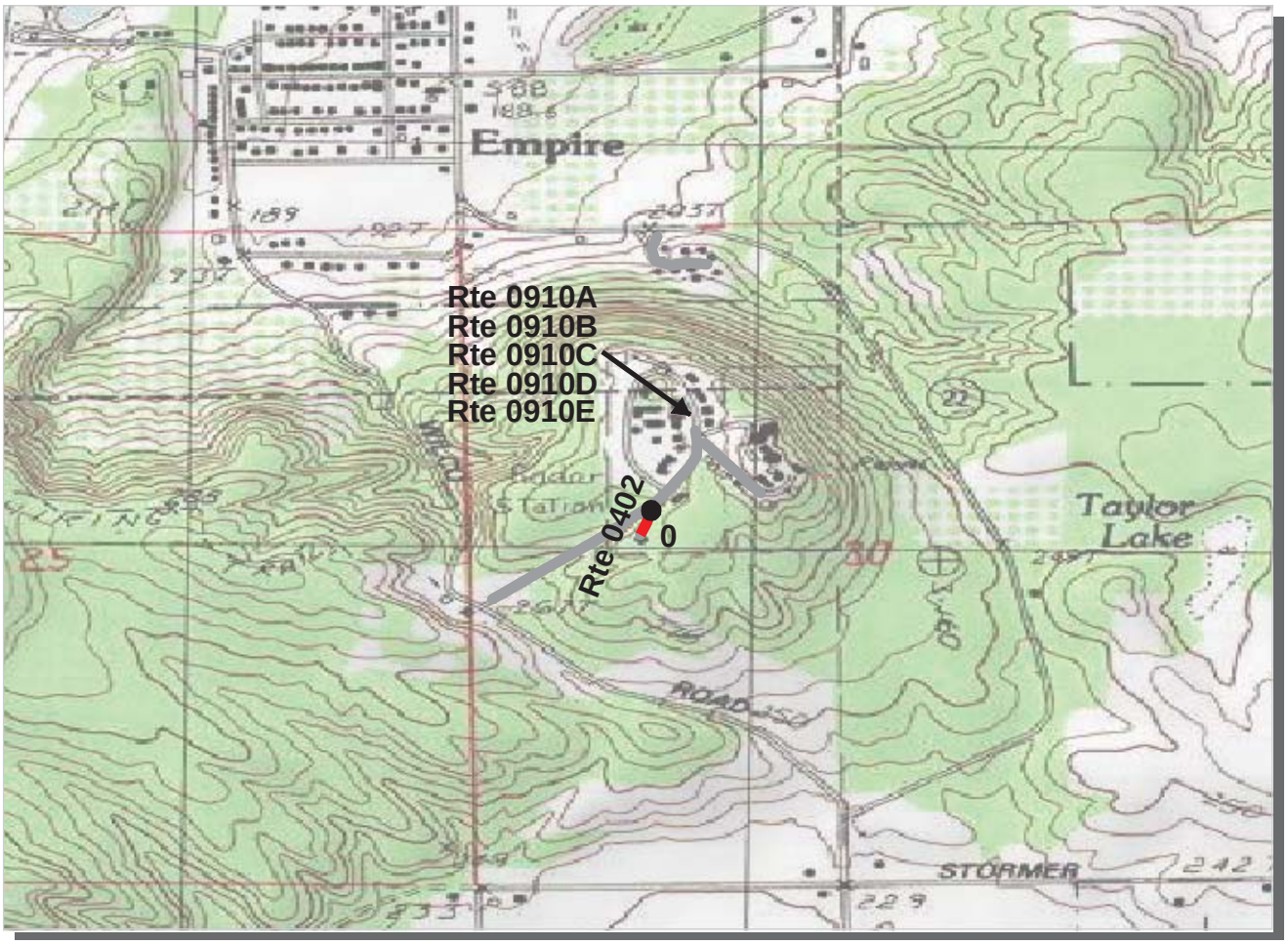
Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0401 Empire Radar Tower Road **TOTAL LENGTH: 0.12 Miles**

Section Number	0				
Section Length (mi)	0.12				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width (ft)	6				
Roadway Condition Information					
PCR (Pavement Condition Rating)	77				
RCI (Roughness Condition Index)	61				
SCR (Surface Condition Rating)	86				
Alligator Cracking Index	98				
Rutting Index	88				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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



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

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

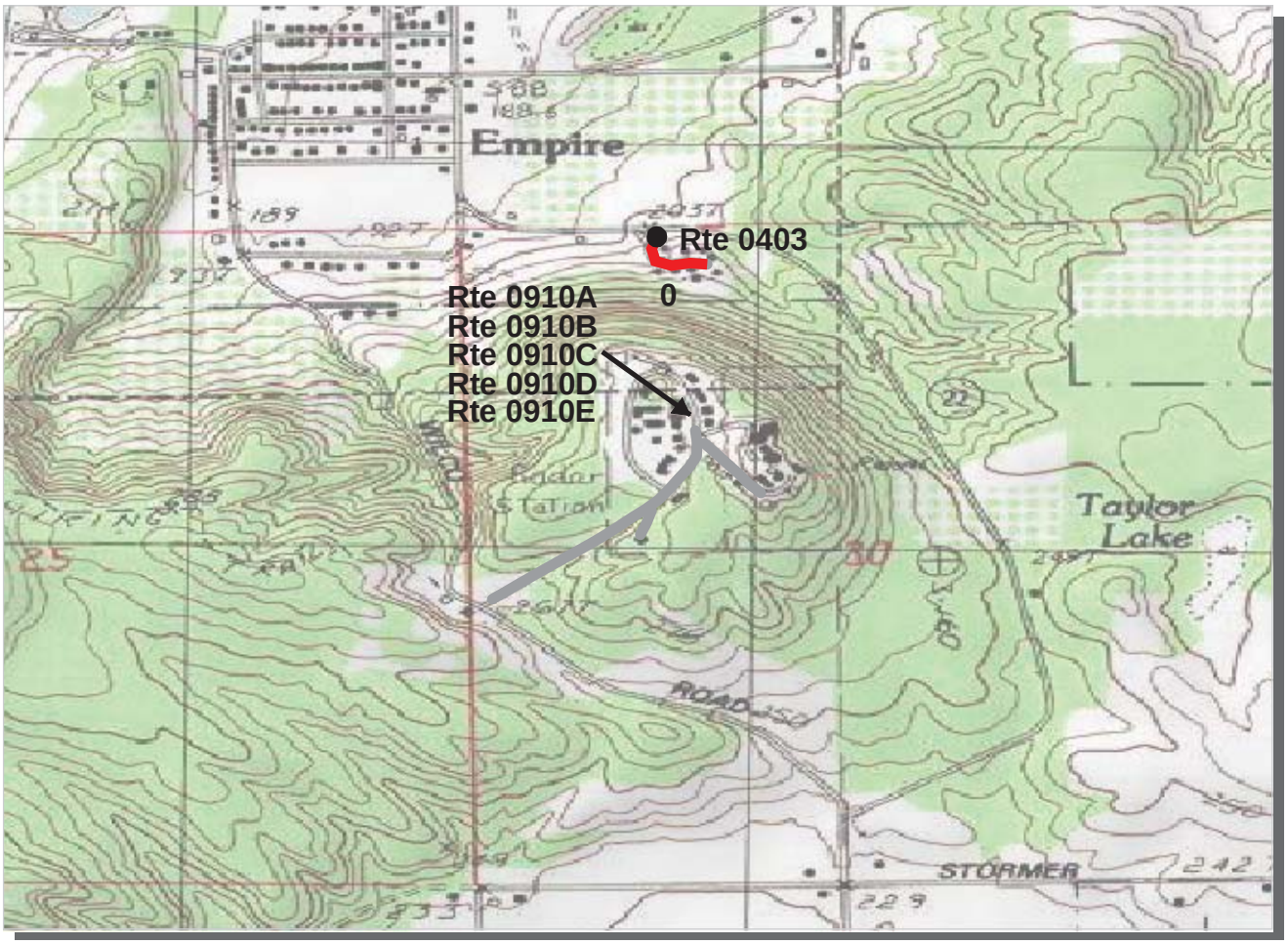
Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0402 Empire Equipment Storage Road **TOTAL LENGTH: 0.06 Miles**

Section Number	0				
Section Length (mi)	0.06				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	14				
Lane Width (ft)	14				
Shoulder Width (ft)	6				
Roadway Condition Information					
PCR (Pavement Condition Rating)	50				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	50				
Alligator Cracking Index	82				
Rutting Index	74				
Patching Index	100				
Tranverse Cracking Index	97				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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



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

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

Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

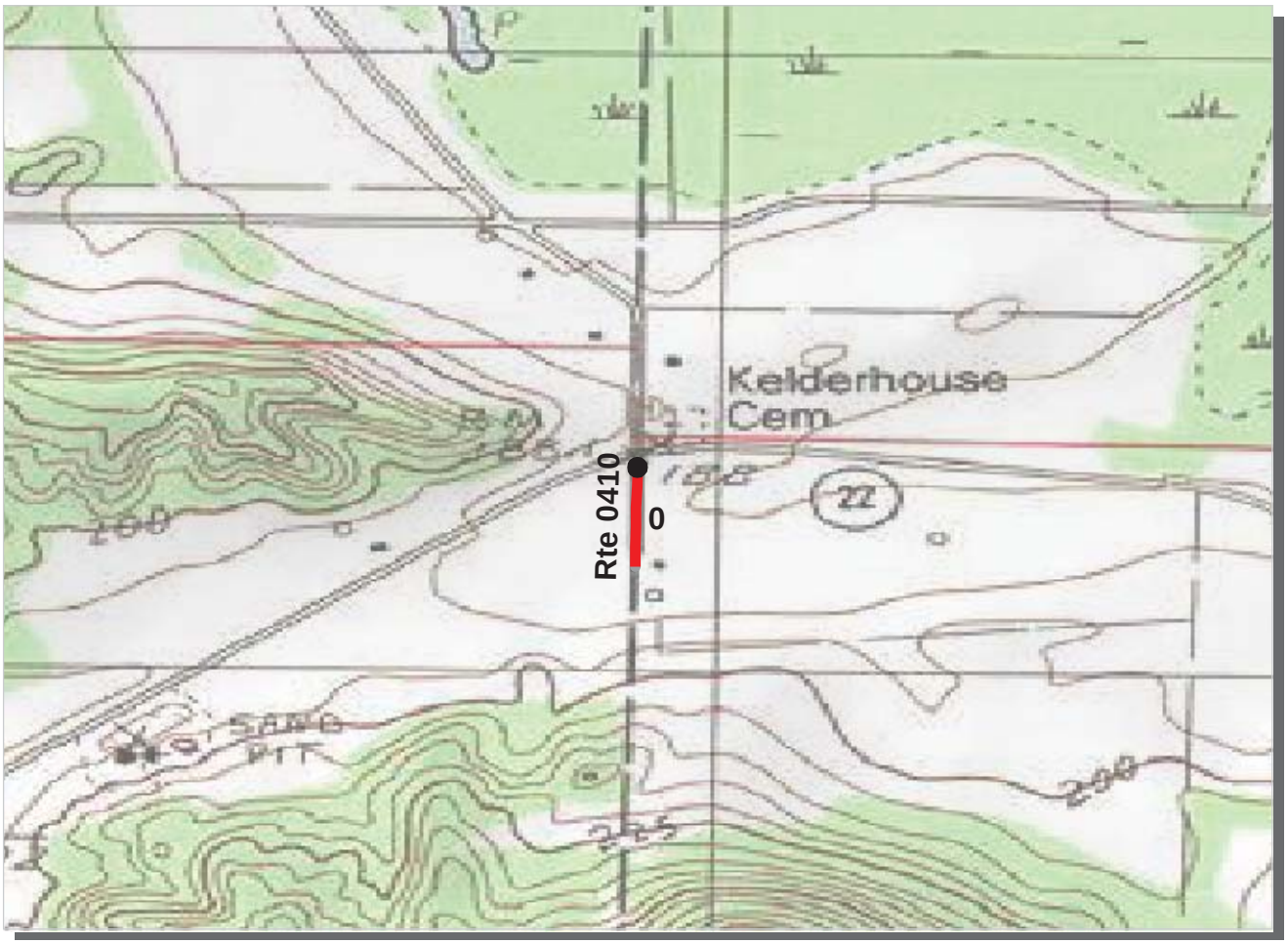
ROUTE: 0403 Barracks Street **TOTAL LENGTH: 0.12 Miles**

Section Number	0				
Section Length (mi)	0.12				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	10				
Shoulder Width (ft)	6				
Roadway Condition Information					
PCR (Pavement Condition Rating)	43				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	43				
Alligator Cracking Index	100				
Rutting Index	61				
Patching Index	100				
Tranverse Cracking Index	86				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0403 Barracks Street



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

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

Midwest Region
SLBE : Sleeping Bear Dunes National Lakeshore

ROUTE: 0410 Klett Farm Access Road **TOTAL LENGTH: 0.12 Miles**

Section Number	0				
Section Length (mi)	0.12				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	31				
RCI (Roughness Condition Index)	45				
SCR (Surface Condition Rating)	30				
Alligator Cracking Index	83				
Rutting Index	60				
Patching Index	100				
Tranverse Cracking Index	92				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

* NC designates data not collected NA designates not applicable

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

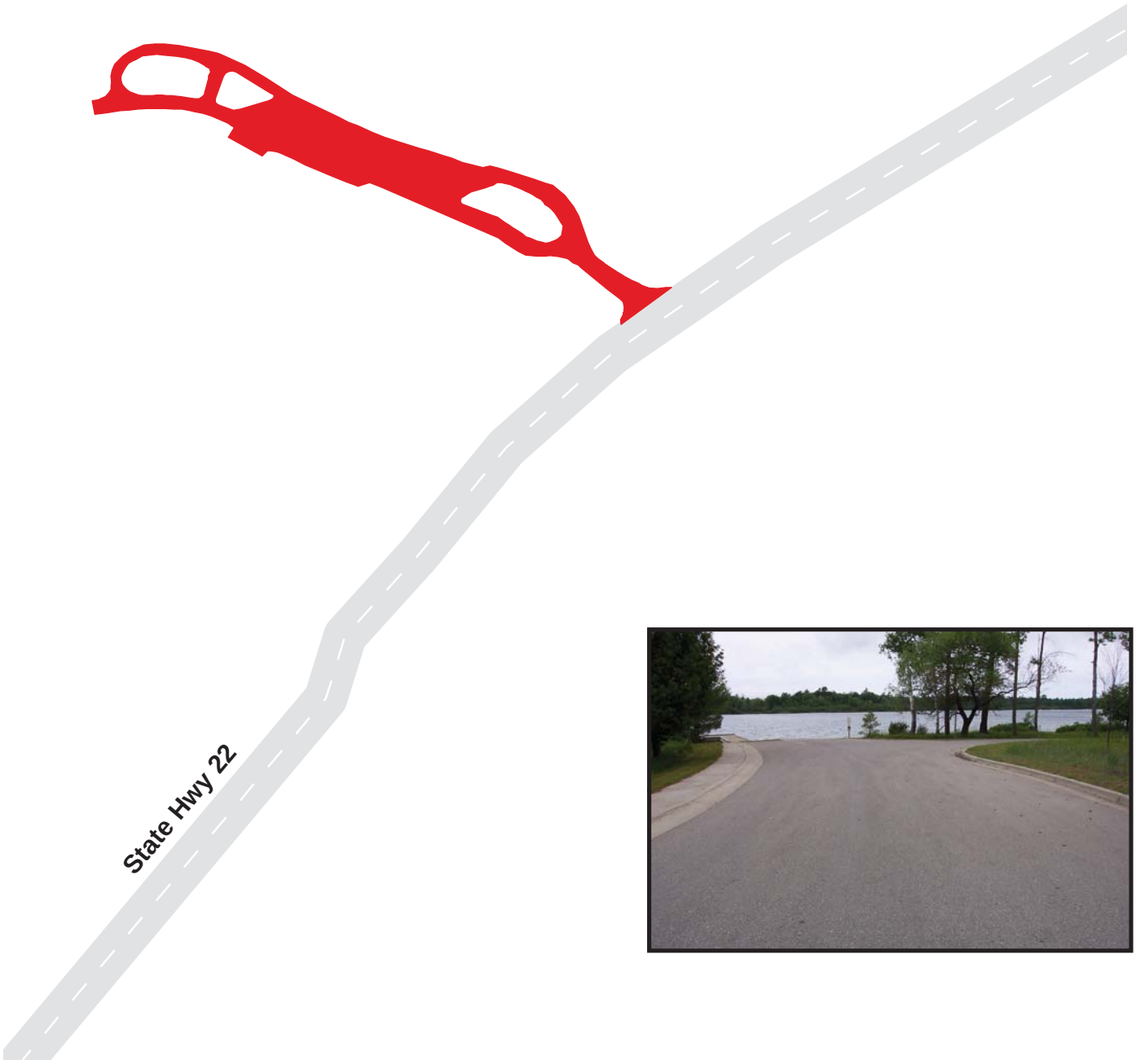
SLBE: Manually Rated Paved Route Condition Rating Sheets

No data available for this section

Sleeping Bear Dunes National Lakeshore
Route 0900
LOON LAKE PARKING
FROM STATE HIGHWAY 22

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	6/29/2003	50897	0.88	AS	GOOD / 90

* Lane miles are based on 11' lane widths



300 150 0 300
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0901
PLATTE RIVER PICNIC AREA
FROM LAKE MICHIGAN ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	6/29/2003	27328	0.47	AS	GOOD / 90

* Lane miles are based on 11' lane widths

150 75 0 150
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0902
EL DORADO PICNIC AND BOAT LAUNCH PARKING
FROM LAKE MICHIGAN ROAD

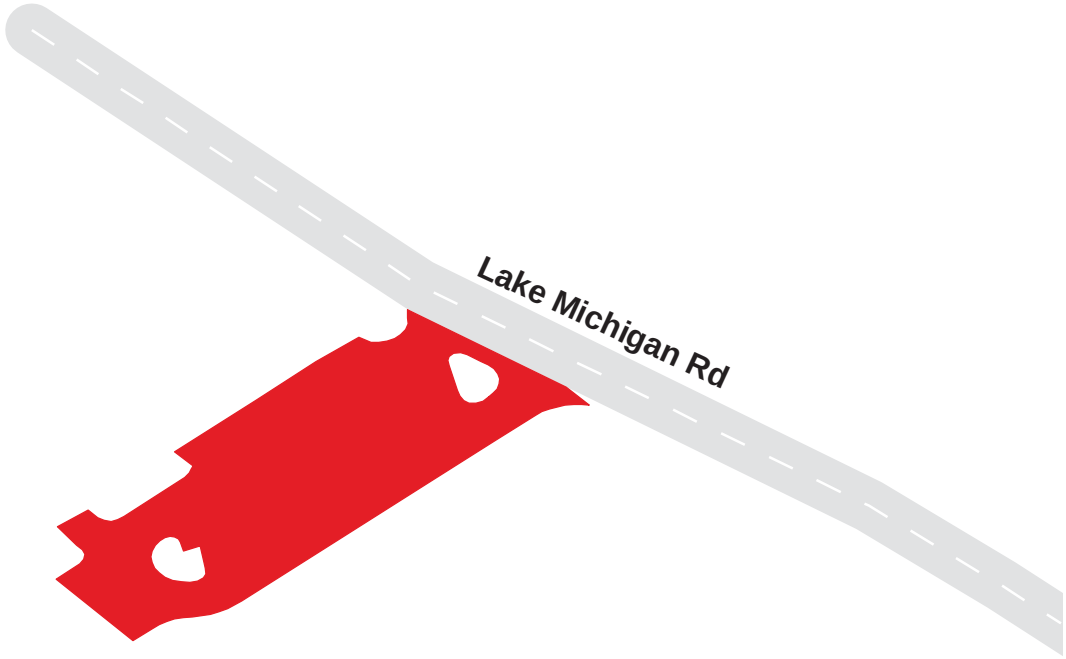
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902	Public	6/29/2003	10774	0.19	AS	FAIR / 73

* Lane miles are based on 11' lane widths

Sleeping Bear Dunes National Lakeshore
Route 0903A
PLATTE POINT PARKING AREA A
FROM LAKE MICHIGAN ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903A	Public	6/29/2003	32615	0.56	AS	GOOD / 90

* Lane miles are based on 11' lane widths

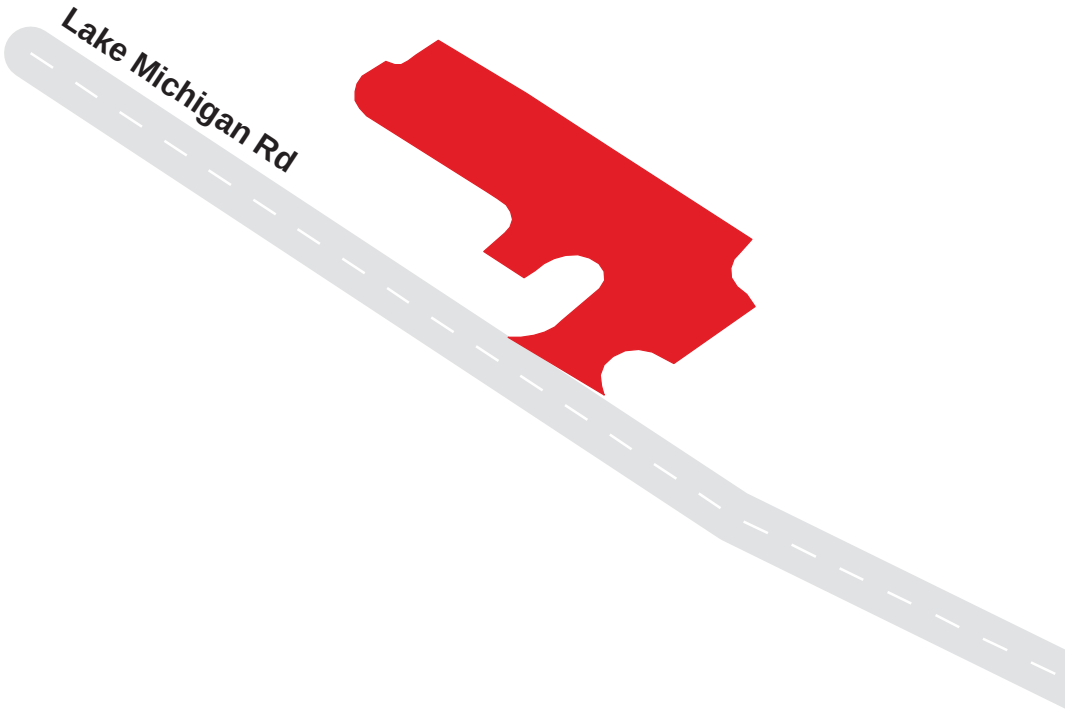


150 75 0 150
Feet

Sleeping Bear Dunes National Lakeshore
Route 0903B
PLATTE POINT PARKING AREA B
FROM LAKE MICHIGAN ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903B	Public	6/29/2003	8297	0.14	AS	GOOD / 90

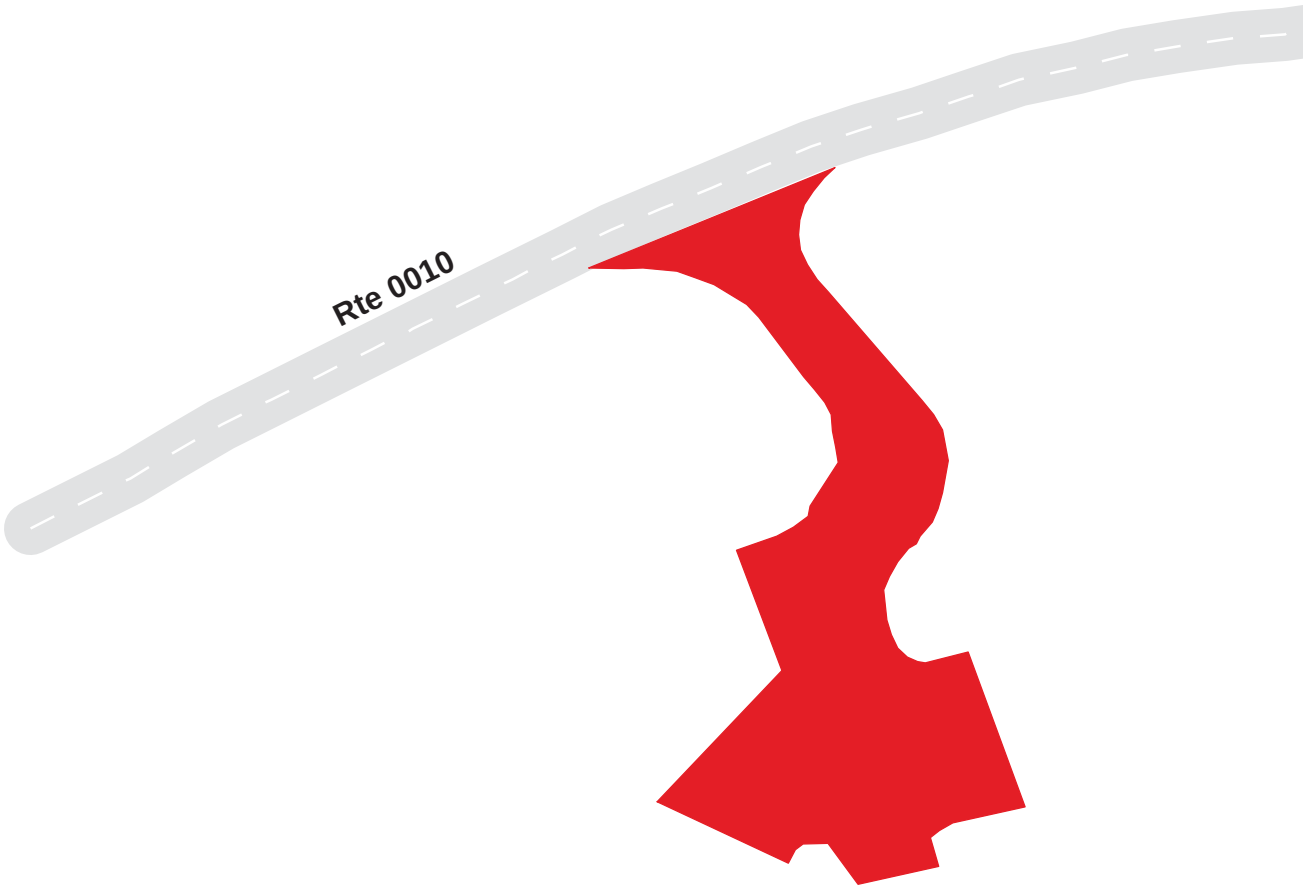
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0904
PLATTE RIVER MAINTENANCE SHOP
FROM ROUTE 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	NonPublic	6/29/2003	8733	0.15	AS	GOOD / 90

* Lane miles are based on 11' lane widths



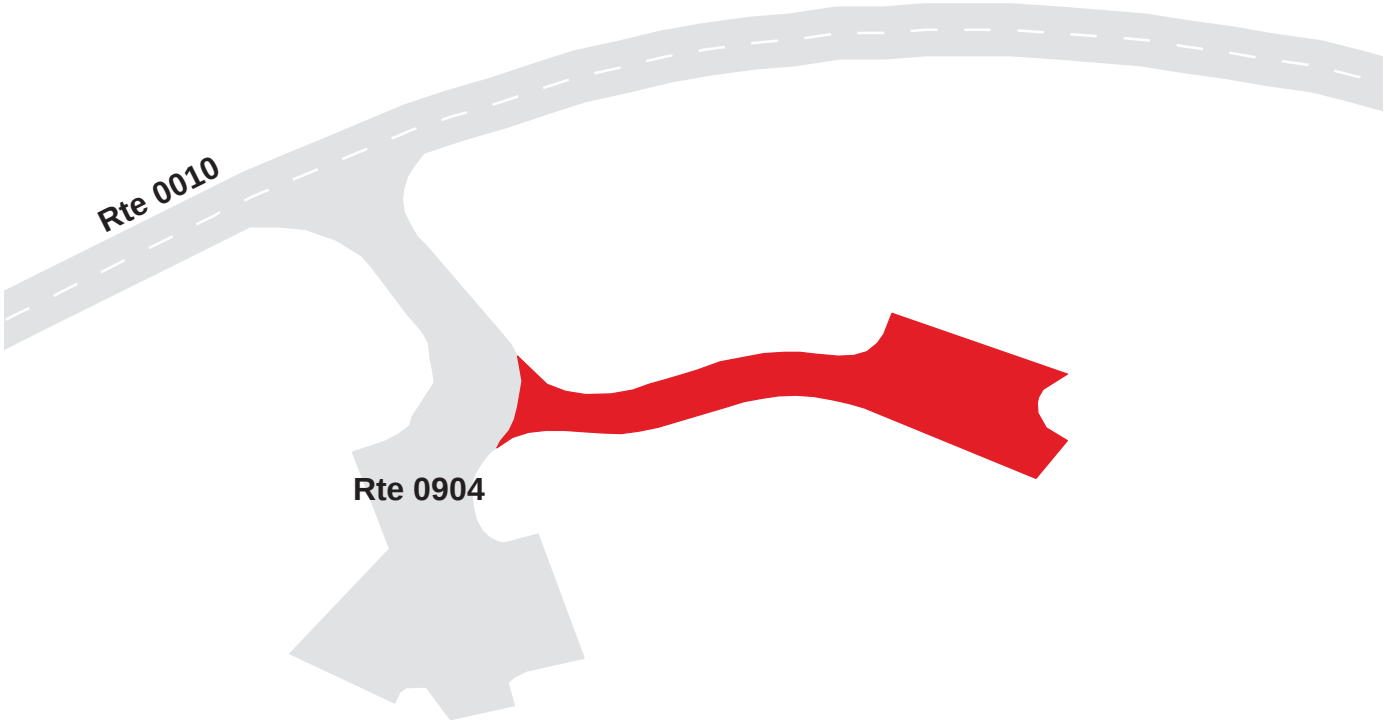
70 35 0 70 Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0905
PLATTE RIVER RANGER STATION EMPLOYEE PARKING
FROM ROUTE 0904

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	NonPublic	6/29/2003	4392	0.08	AS	GOOD / 90

* Lane miles are based on 11' lane widths



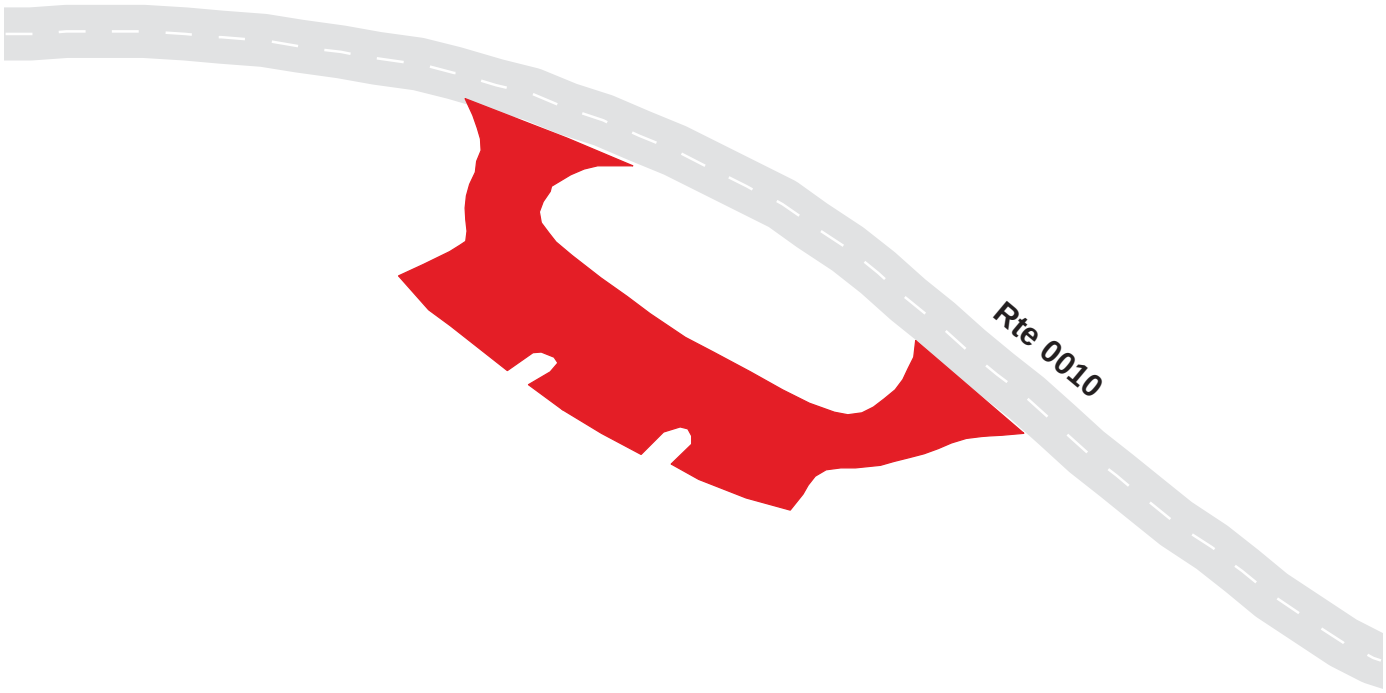
100 50 0 100
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0906
PLATTE RIVER RANGER STATION VISITOR PARKING
FROM ROUTE 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	6/29/2003	11165	0.19	AS	FAIR / 73

* Lane miles are based on 11' lane widths



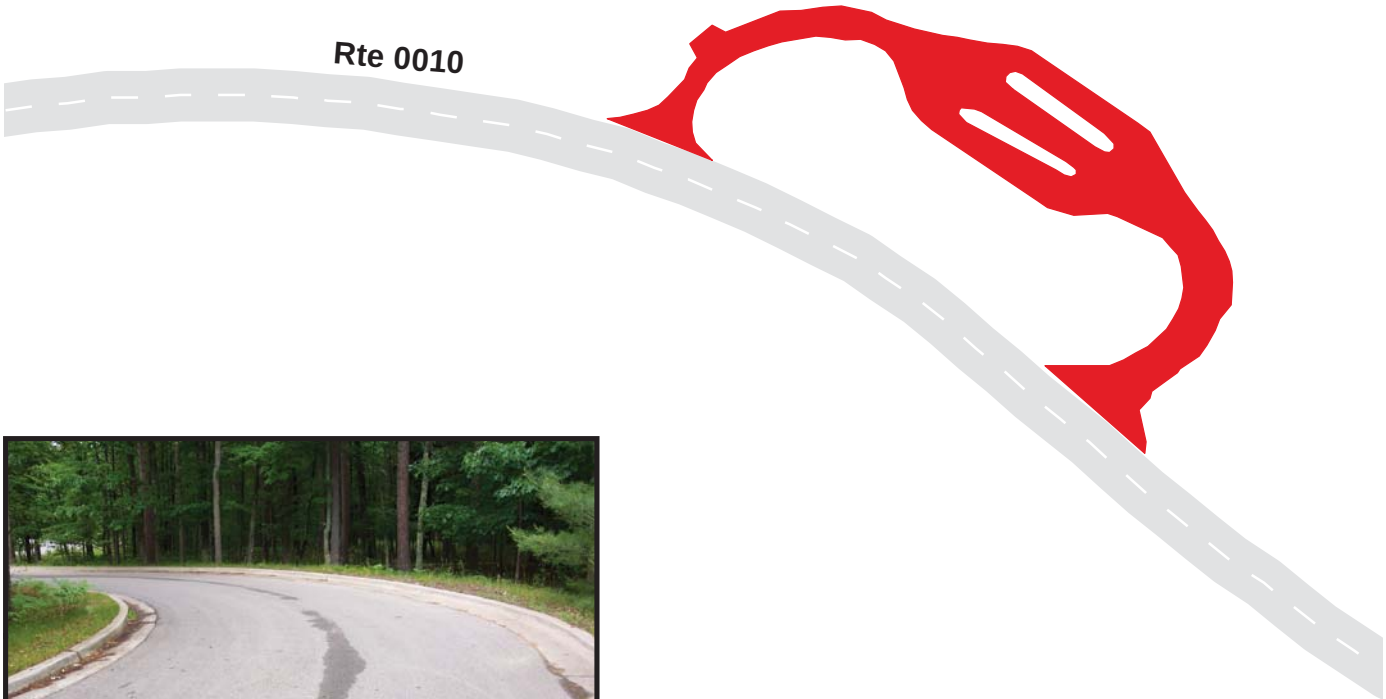
100 50 0 100
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0907
PLATTE RIVER CAMPGROUND DUMP STATION
FROM ROUTE 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	6/29/2003	8740	0.15	AS	GOOD / 90

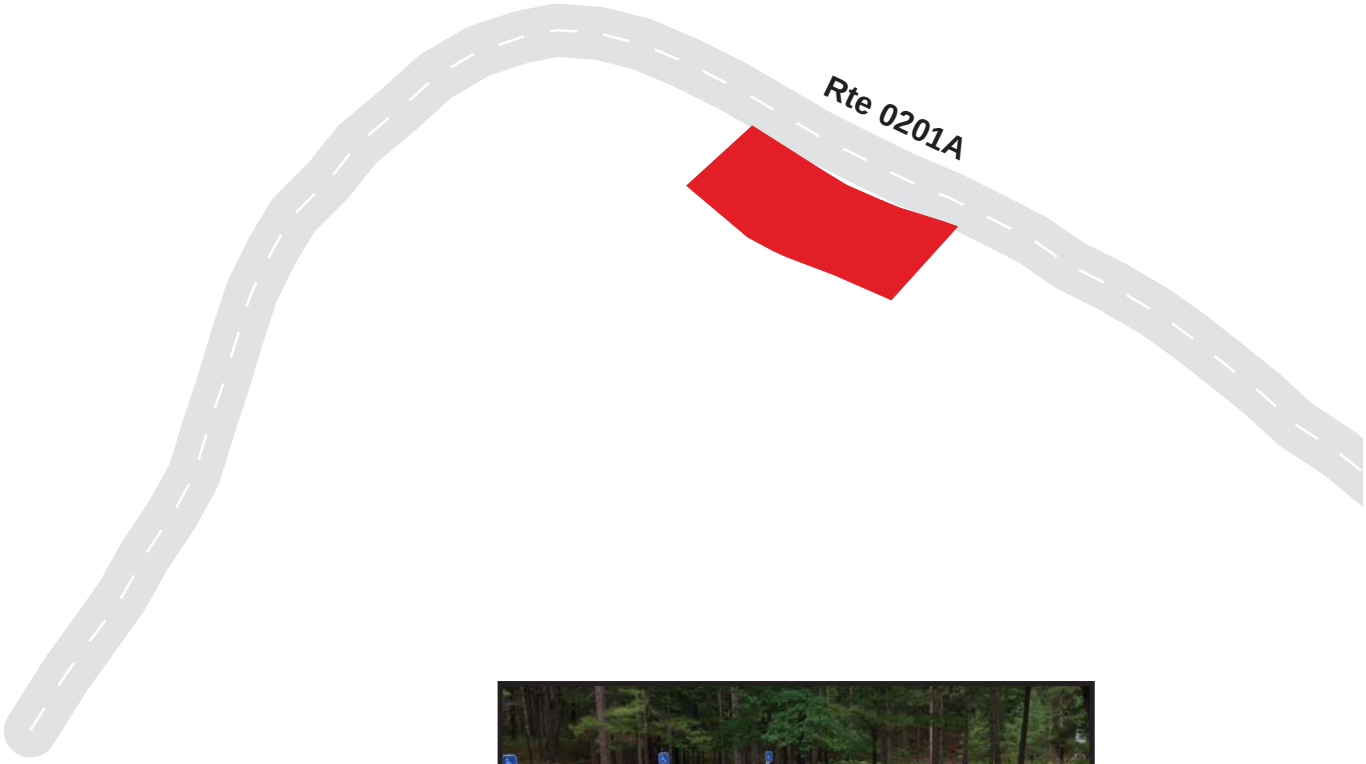
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0908
TE RIVER CAMPGROUND HANDICAPPED AMPHITHEATER ACCESS PARKING
FROM ROUTE 0201A

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	6/29/2003	2285	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

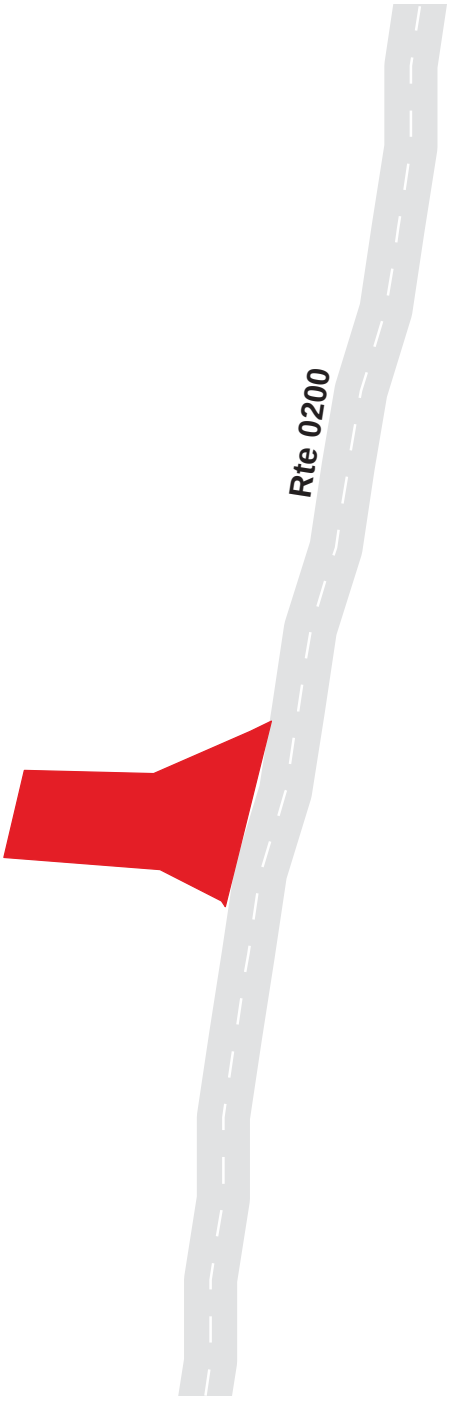
N

7-10

Sleeping Bear Dunes National Lakeshore
Route 0909
PLATTE RIVER CAMPGROUND FIREWOOD PARKING
FROM ROUTE 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	6/29/2003	904	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



70 35 0 70 Feet

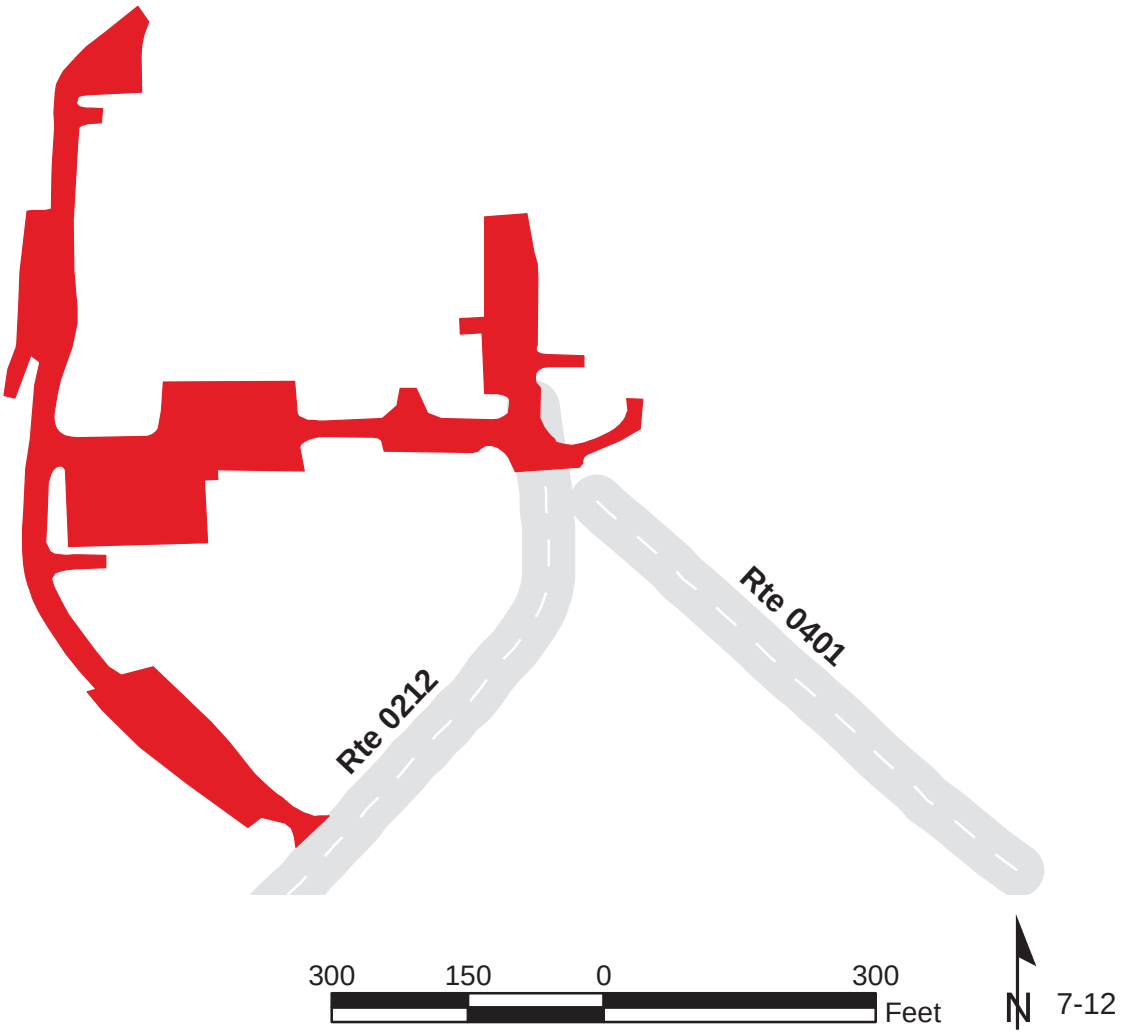
N

7-11

Sleeping Bear Dunes National Lakeshore
Route 0910A
EMPIRE MAINTENANCE AREA A
FROM ROUTE 0212

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910A	NonPublic	6/30/2003	74696	1.29	AS	POOR / 45

* Lane miles are based on 11' lane widths



7-12

Sleeping Bear Dunes National Lakeshore
Route 0910B
EMPIRE MAINTENANCE AREA B
FROM ROUTE 0212

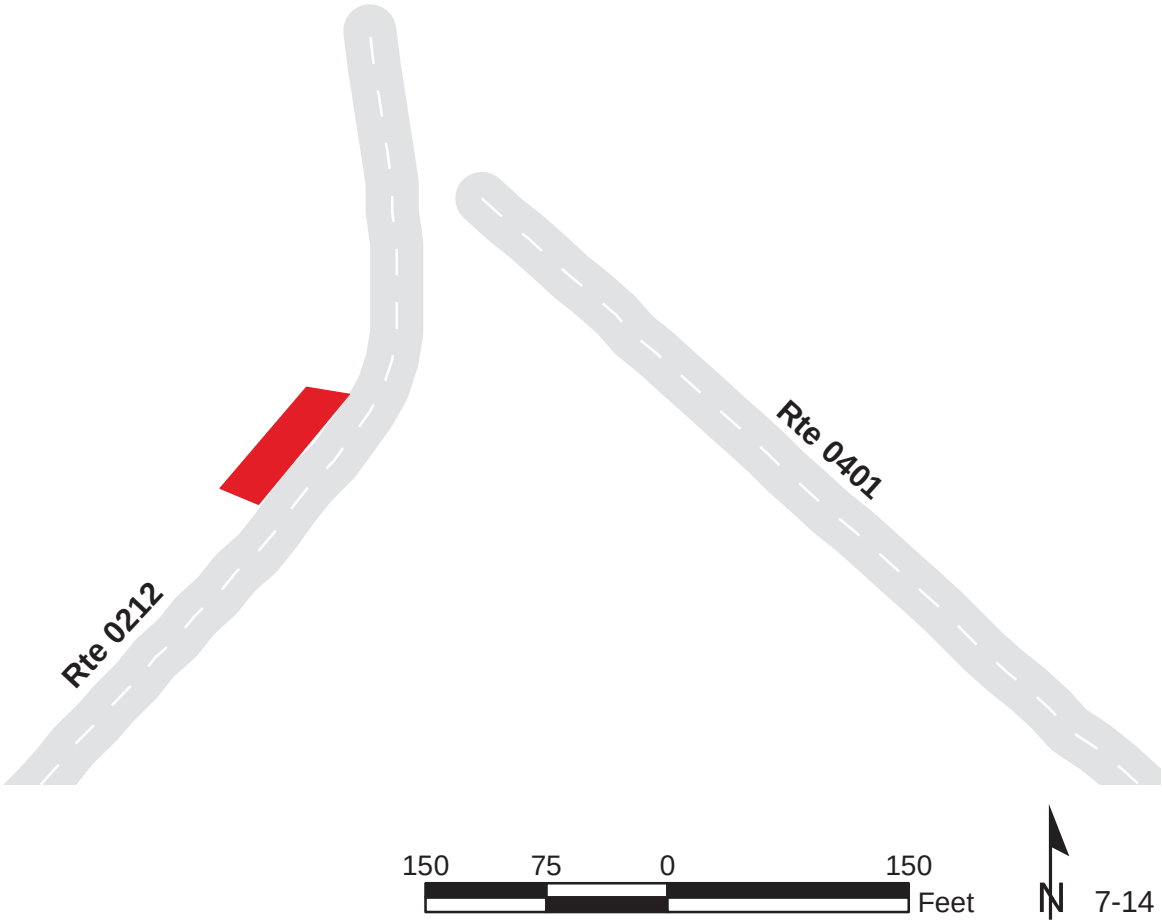
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910B	NonPublic	6/30/2003	1270	0.02	AS	FAIR / 73

* Lane miles are based on 11' lane widths

Sleeping Bear Dunes National Lakeshore
Route 0910C
EMPIRE MAINTENANCE AREA C
FROM ROUTE 0212

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910C	NonPublic	6/30/2003	1471	0.03	AS	FAIR / 73

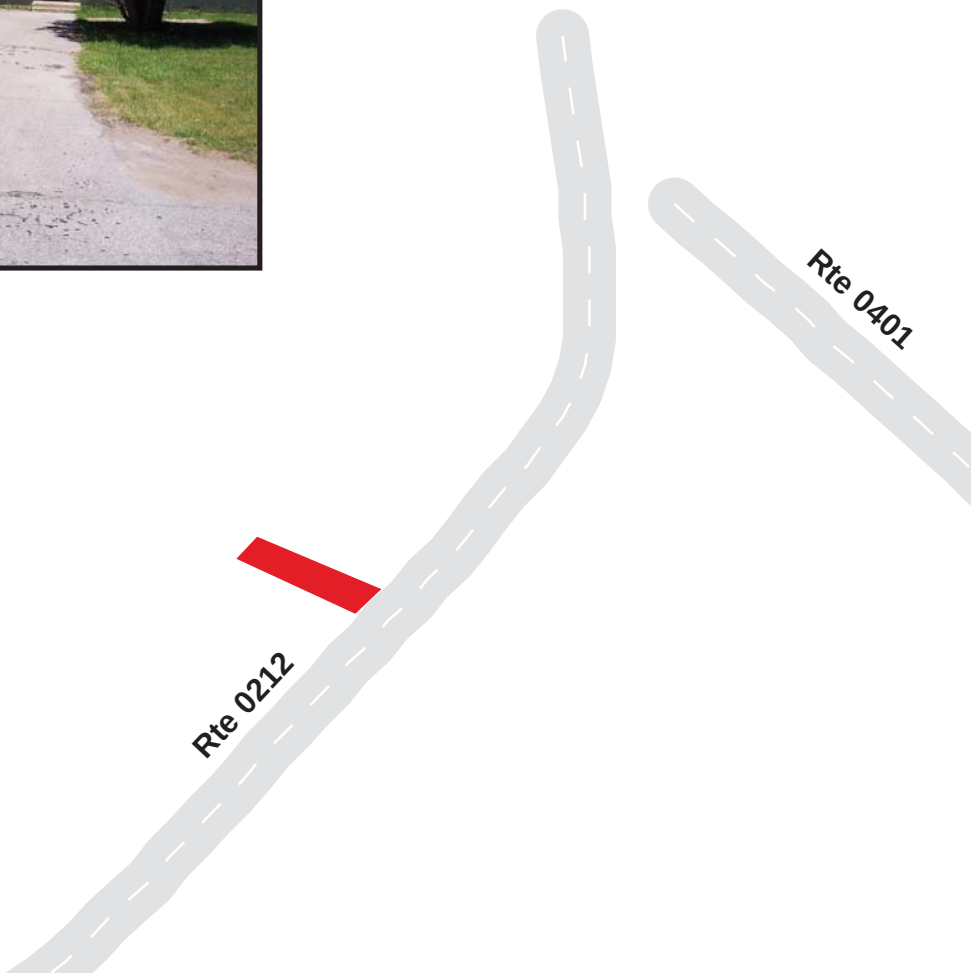
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0910D
EMPIRE MAINTENANCE AREA D
FROM ROUTE 0212

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910D	NonPublic	6/30/2003	1069	0.02	AS	FAIR / 73

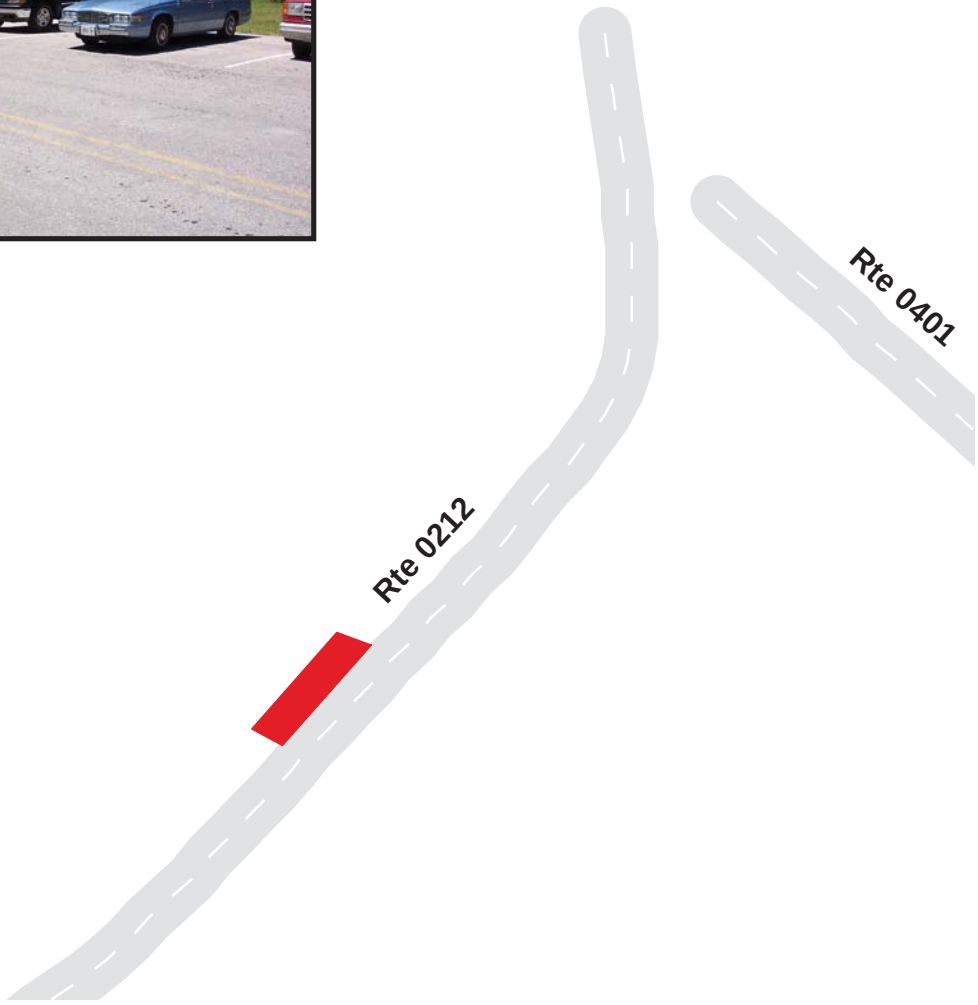
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0910E
EMPIRE MAINTENANCE AREA E
FROM ROUTE 0212

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910E	NonPublic	6/30/2003	1235	0.02	AS	FAIR / 73

* Lane miles are based on 11' lane widths



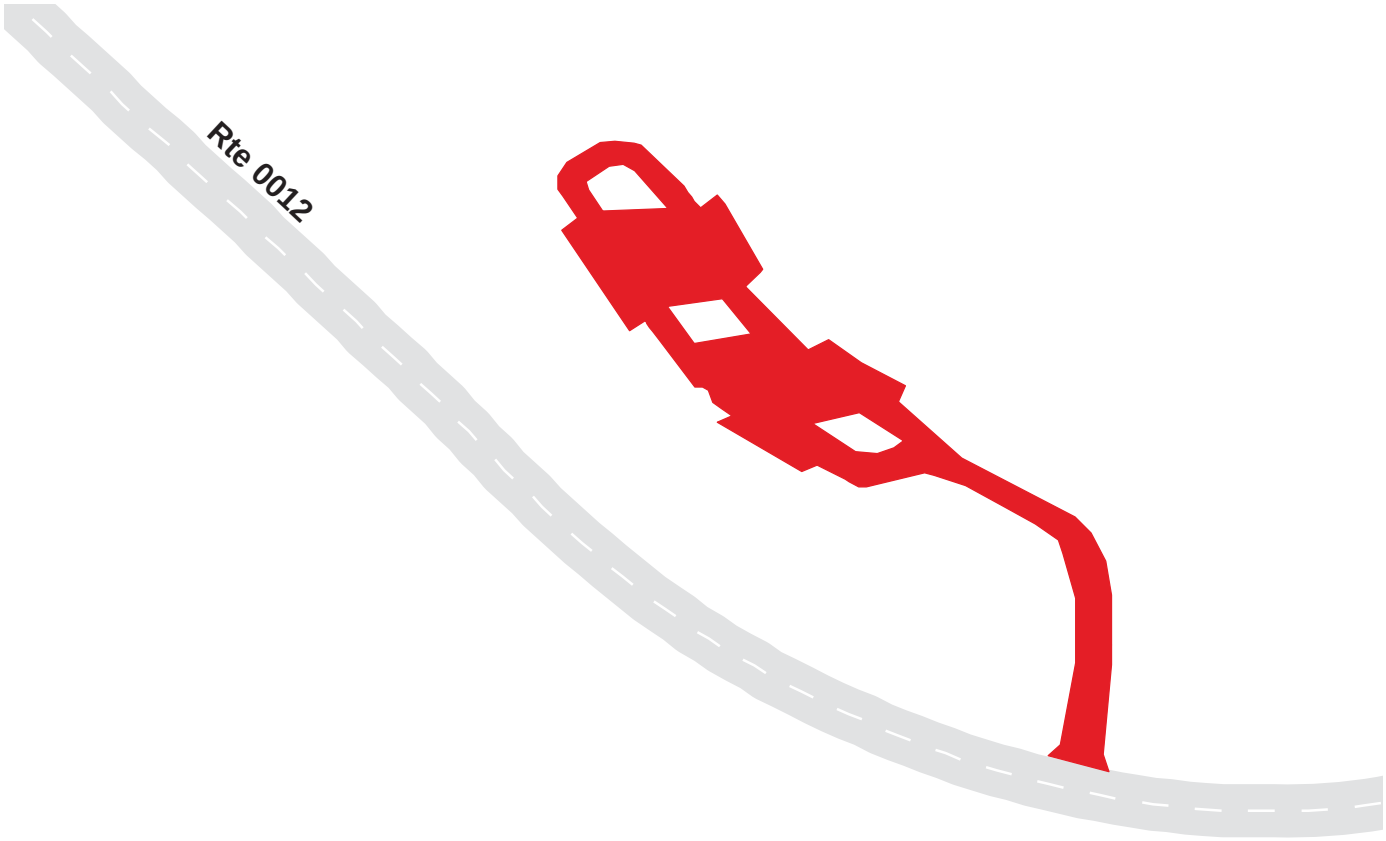
150 75 0 150
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0911
STOCKING SCENIC DRIVE TRAILER PARKING
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	6/29/2003	44944	0.77	OC	GOOD / 90

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0913
STOCKING SCENIC DRIVE U-TURN
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	6/29/2003	5296	0.09	OC	GOOD / 90

* Lane miles are based on 11' lane widths

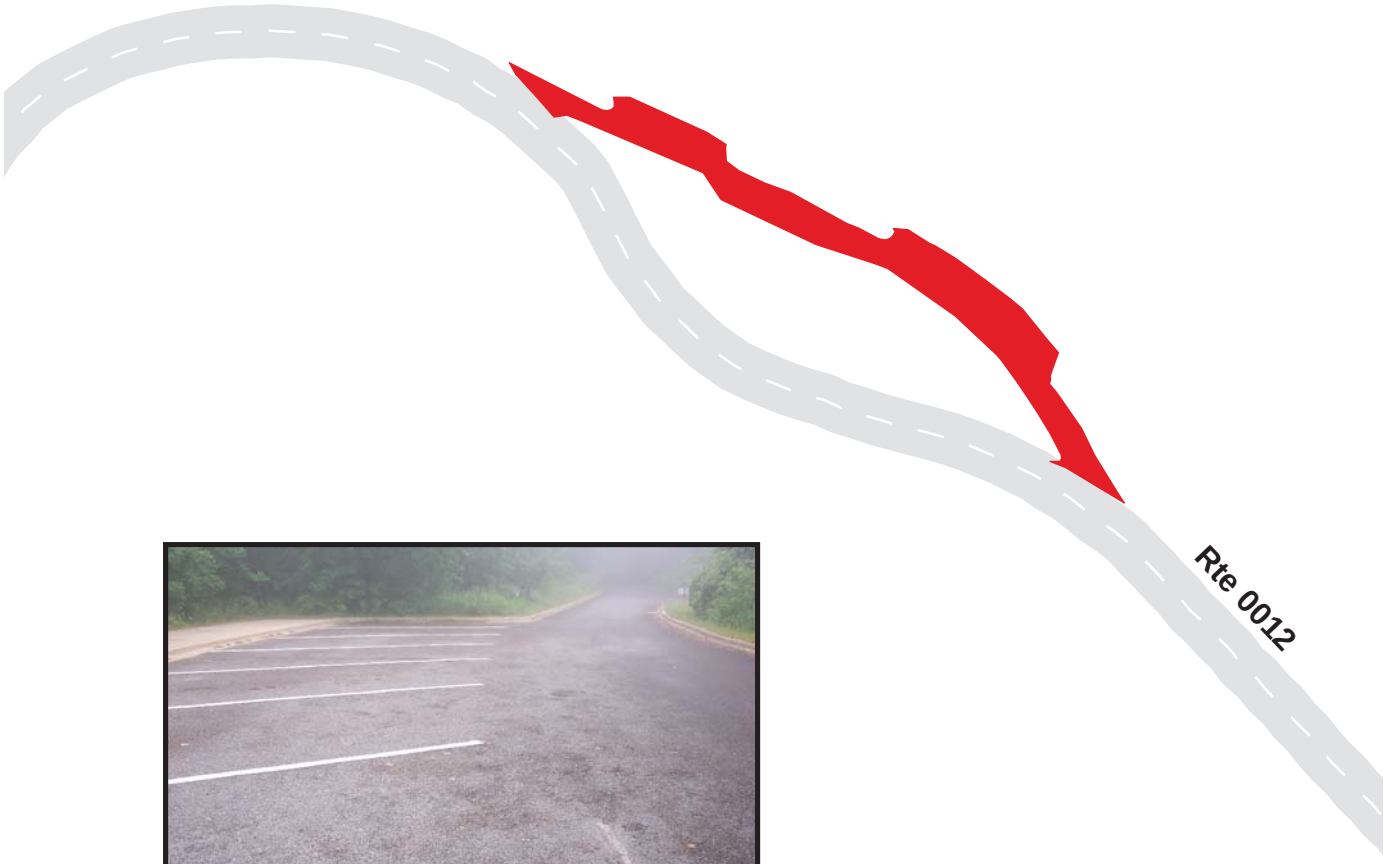
100 50 0 100
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0914
PICNIC MOUNTAIN PARKING
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	Public	6/29/2003	17383	0.30	OC	GOOD / 90

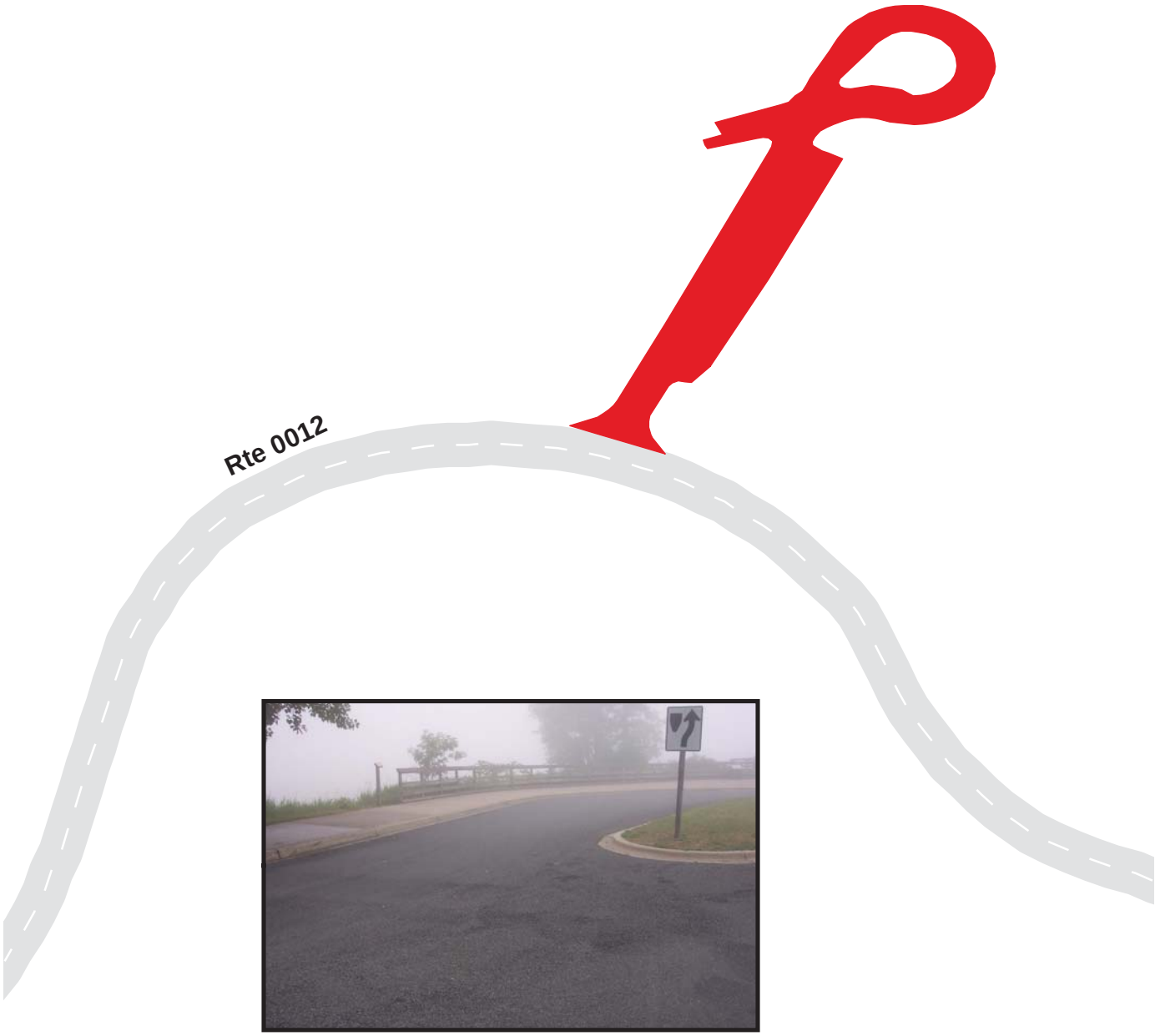
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0915
DUNE OVERLOOK PARKING
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	6/29/2003	18111	0.31	OC	GOOD / 90

* Lane miles are based on 11' lane widths



150 75 0 150
Feet

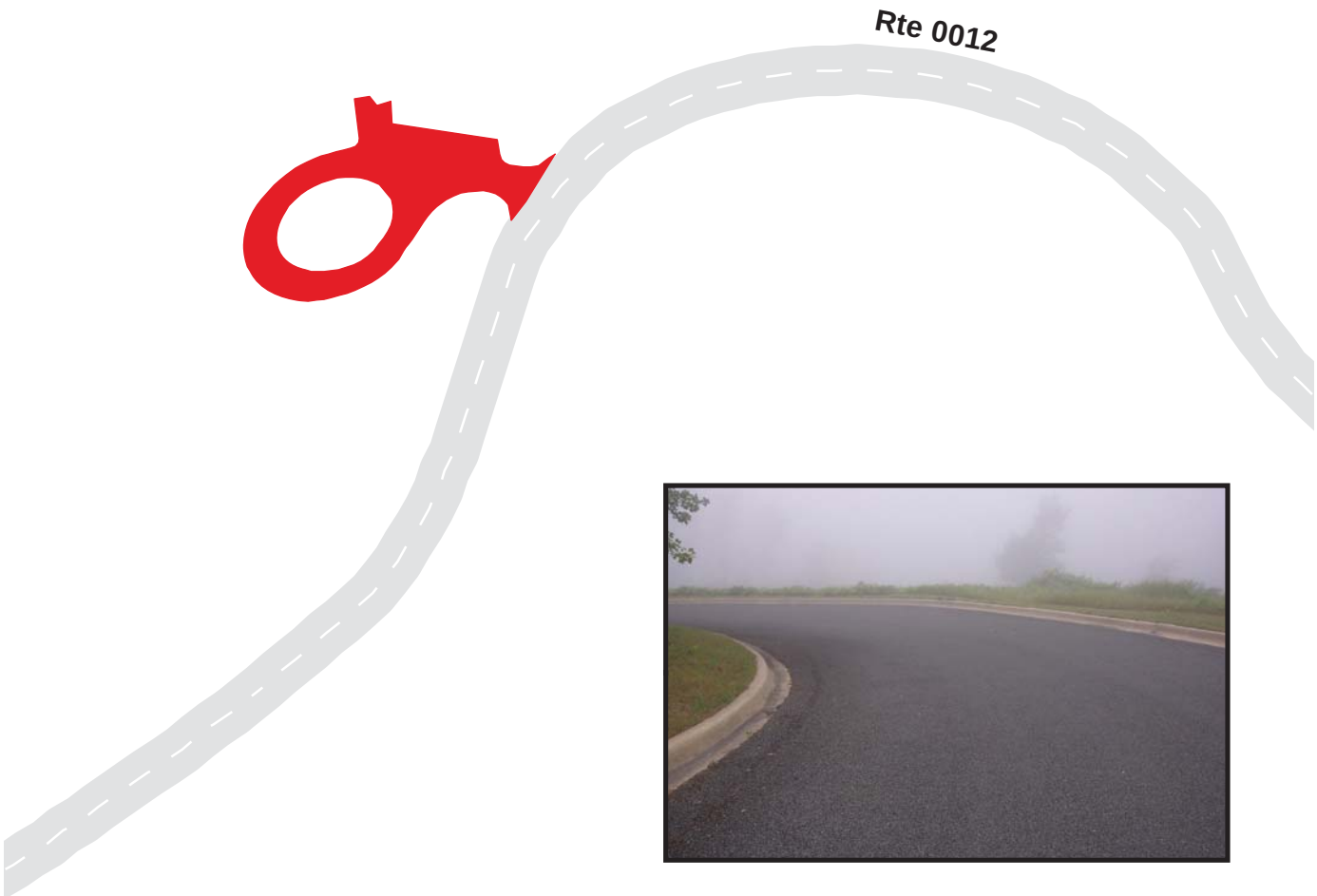
N

7-20

Sleeping Bear Dunes National Lakeshore
Route 0916
COTTONWOOD TRAIL PARKING
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	Public	6/29/2003	12177	0.21	OC	GOOD / 90

* Lane miles are based on 11' lane widths



150 75 0 150
Feet

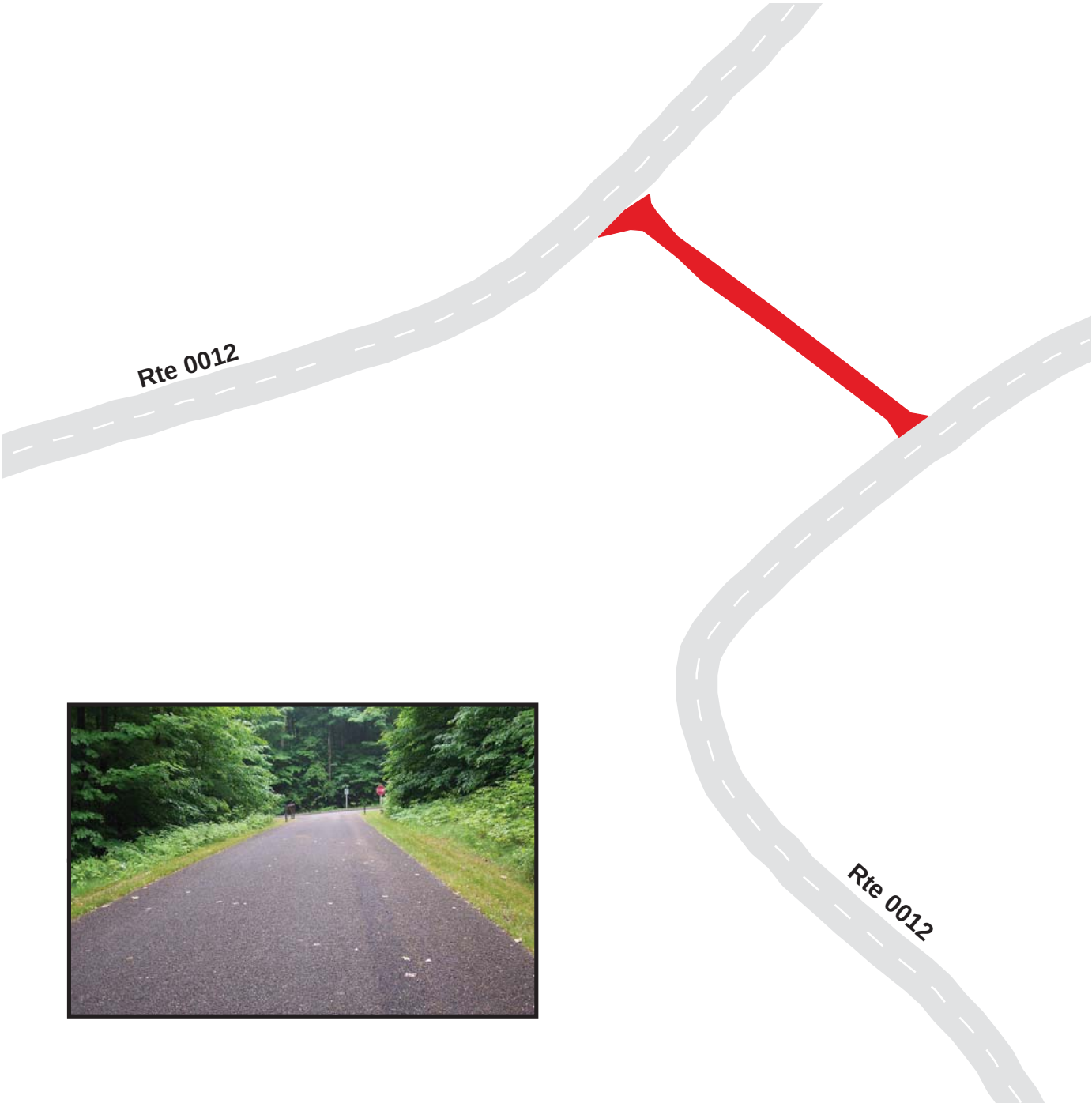
N

7-21

Sleeping Bear Dunes National Lakeshore
Route 0917
EMERGENCY CUT-OFF ROAD
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	Public	6/29/2003	3540	0.06	OC	GOOD / 90

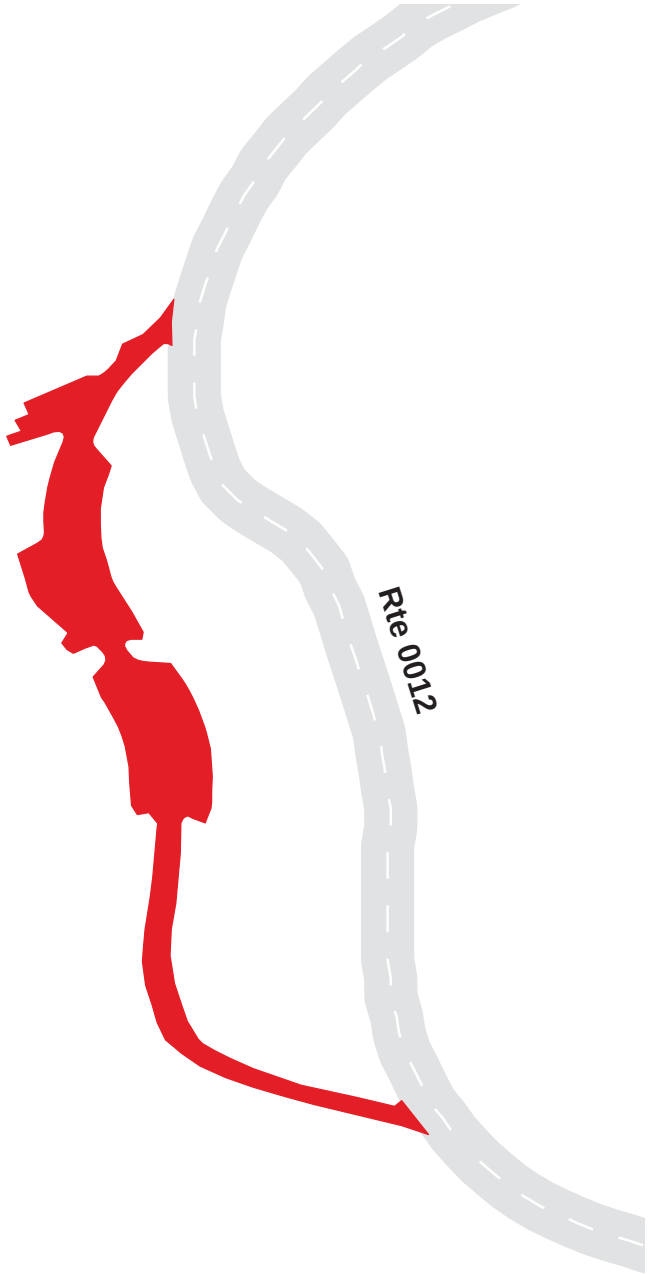
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0918
LAKE MICHIGAN OVERLOOK PARKING
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918	Public	6/29/2003	29384	0.51	OC	GOOD / 90

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

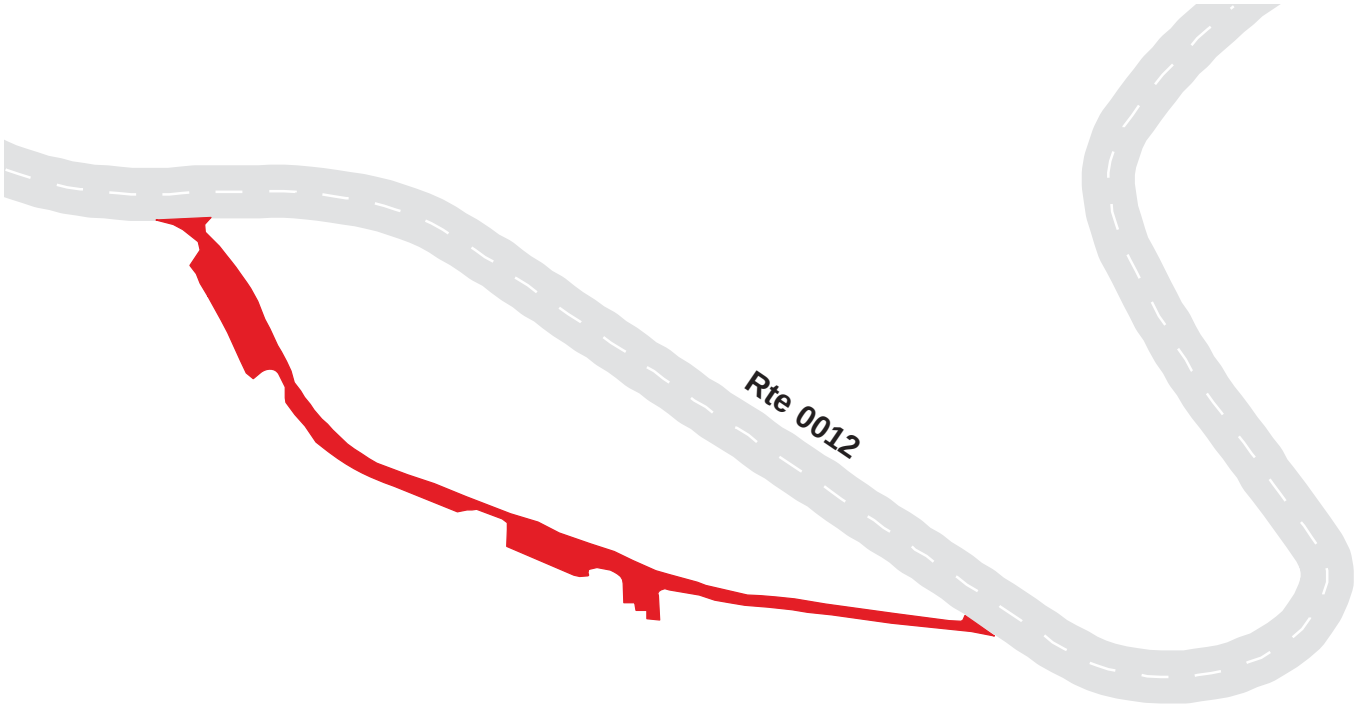
N

7-23

Sleeping Bear Dunes National Lakeshore
Route 0919
NORTHBAR OVERLOOK AND PICNIC PARKING
FROM ROUTE 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	6/29/2003	28433	0.49	OC	GOOD / 90

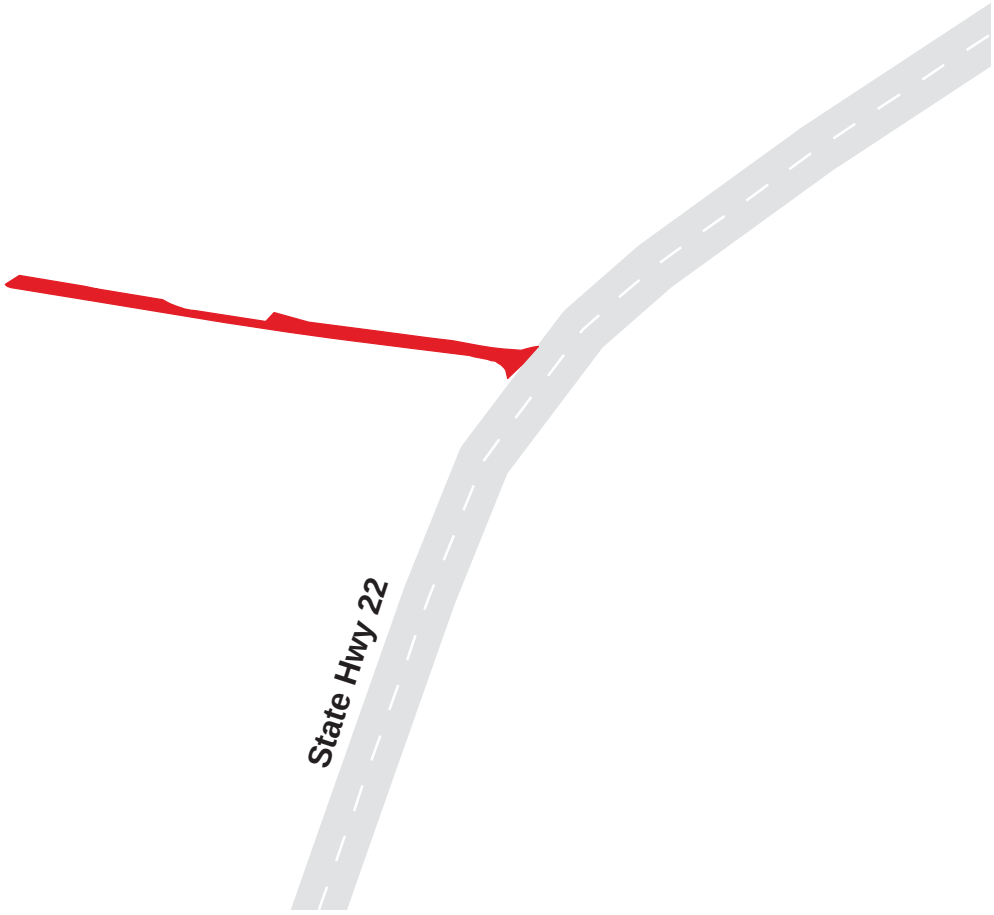
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0920A
DUNE CLIMB PARKING A
FROM STATE HIGHWAY 109

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920A	Public	6/29/2003	13972	0.24	AS	POOR / 45

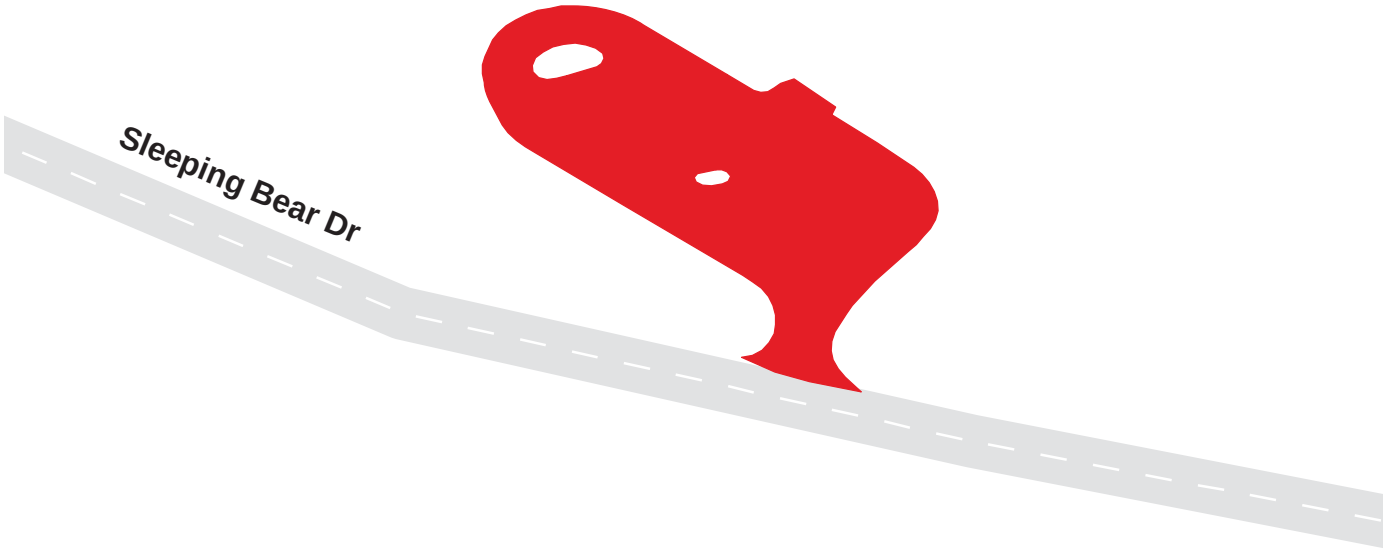
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0921
MARITIME MUSEUM PARKING
FROM SLEEPING BEAR DRIVE

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921	Public	6/29/2003	21020	0.36	AS	FAIR / 73

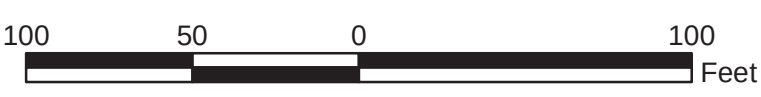
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0922A
PLATTE RIVER GROUP CAMPGROUND PARKING A
FROM ROUTE 0201F

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922A	Public	6/29/2003	2102	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0922B
PLATTE RIVER GROUP CAMPGROUND PARKING B
FROM ROUTE 0201F

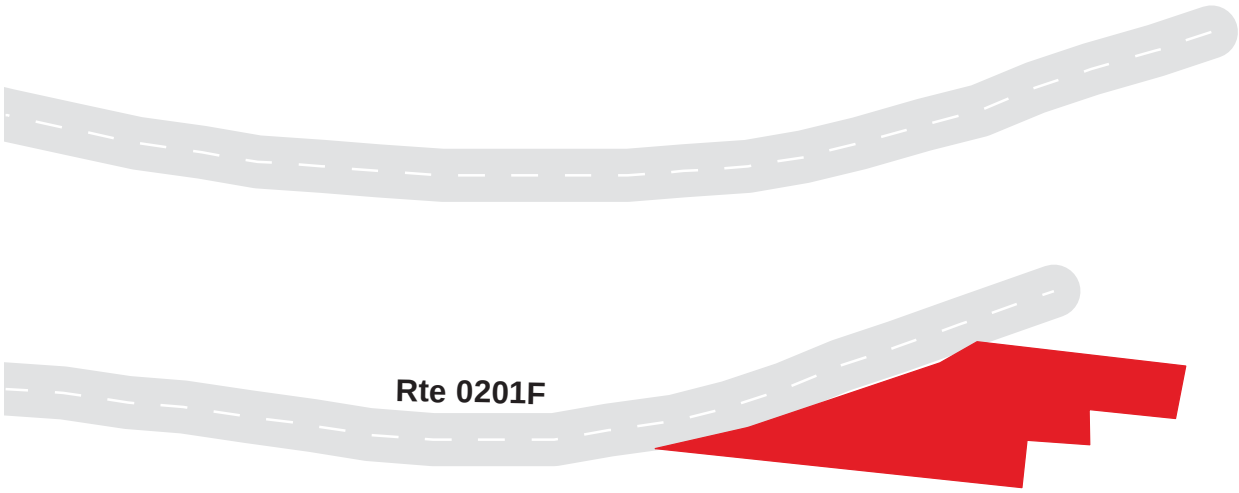
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922B	Public	6/29/2003	2261	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths

Sleeping Bear Dunes National Lakeshore
Route 0922C
PLATTE RIVER GROUP CAMPGROUND PARKING C
FROM ROUTE 0201F

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922C	Public	6/29/2003	2427	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



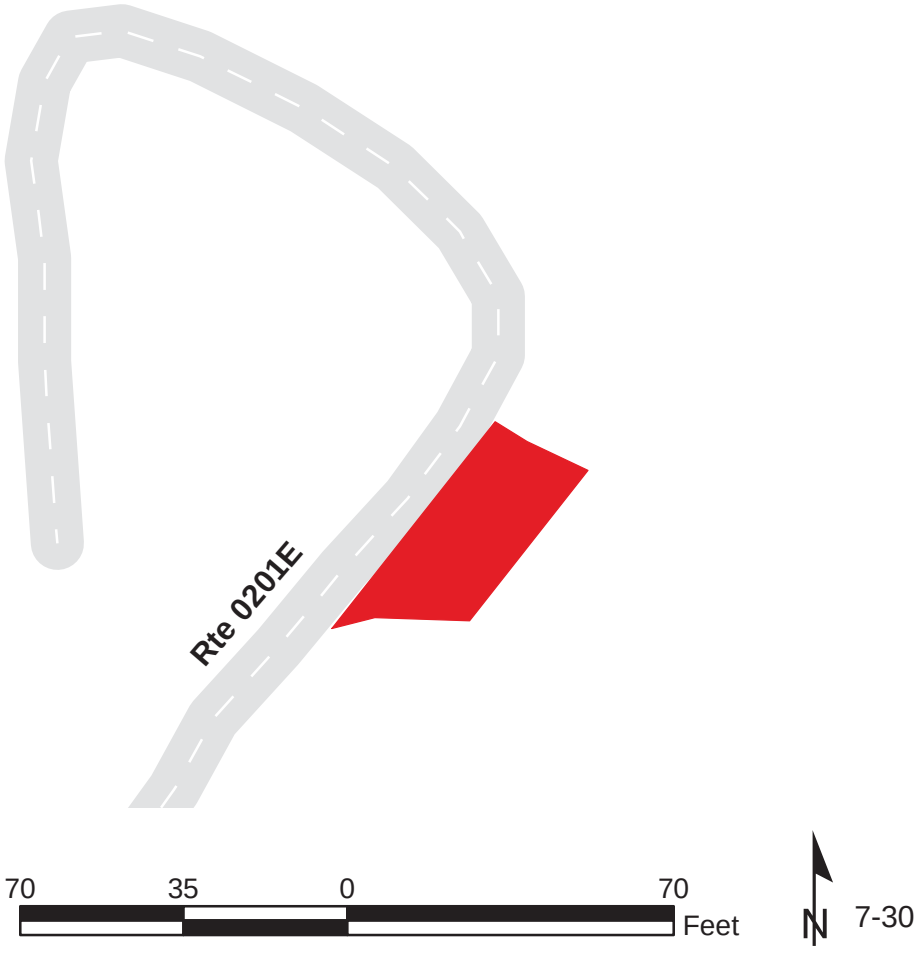
100 50 0 100
Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0923A
PLATTE RIVER WALK-IN CAMPGROUND PARKING A
FROM ROUTE 0201E

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923A	Public	6/29/2003	742	0.01	AS	GOOD / 90

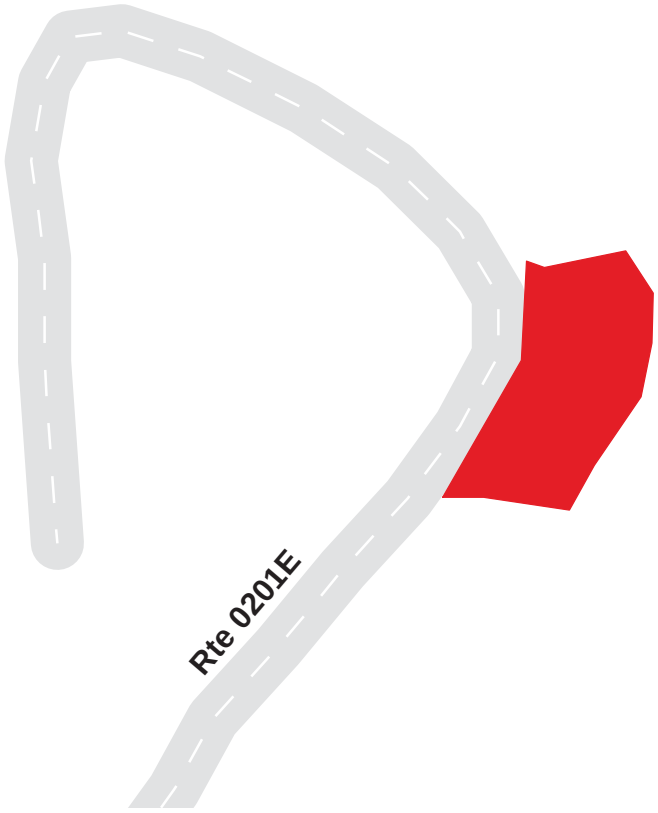
* Lane miles are based on 11' lane widths



Sleeping Bear Dunes National Lakeshore
Route 0923B
PLATTE RIVER WALK-IN CAMPGROUND PARKING B
FROM ROUTE 0201E

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923B	Public	6/29/2003	1033	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



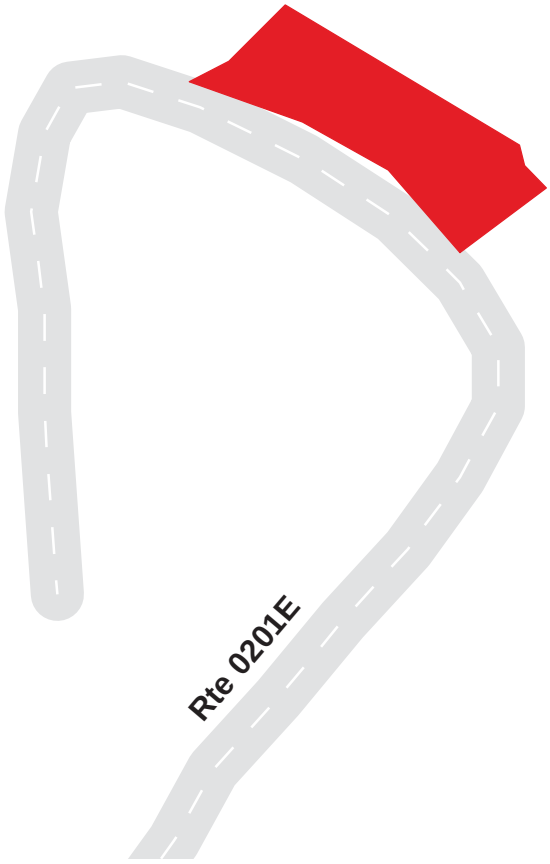
70 35 0 70 Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0923C
PLATTE RIVER WALK-IN CAMPGROUND PARKING C
FROM ROUTE 0201E

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923C	Public	6/29/2003	1025	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



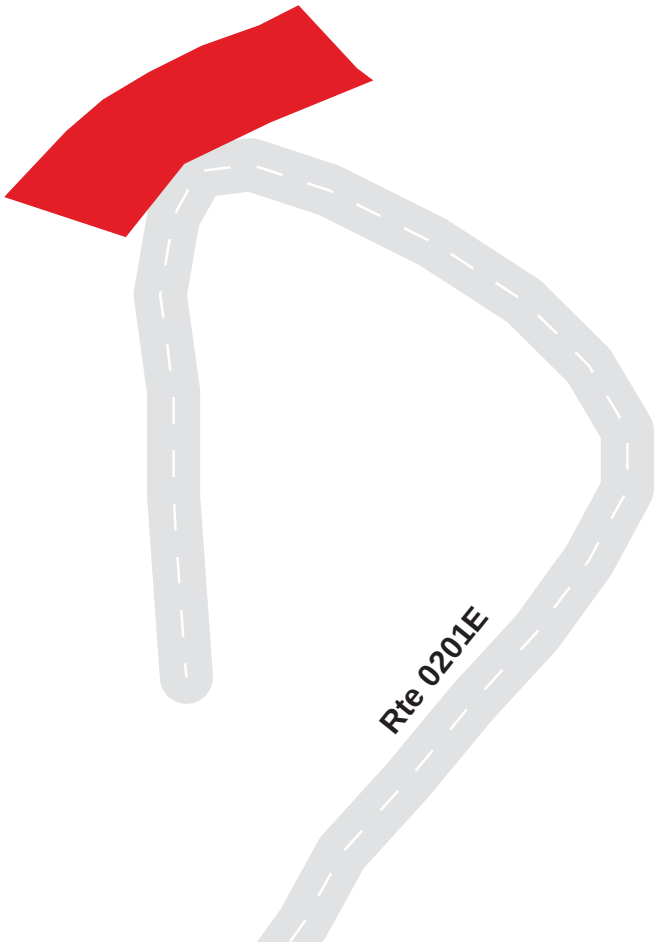
70 35 0 70 Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0923D
PLATTE RIVER WALK-IN CAMPGROUND PARKING D
FROM ROUTE 0201E

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923D	Public	6/29/2003	1077	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



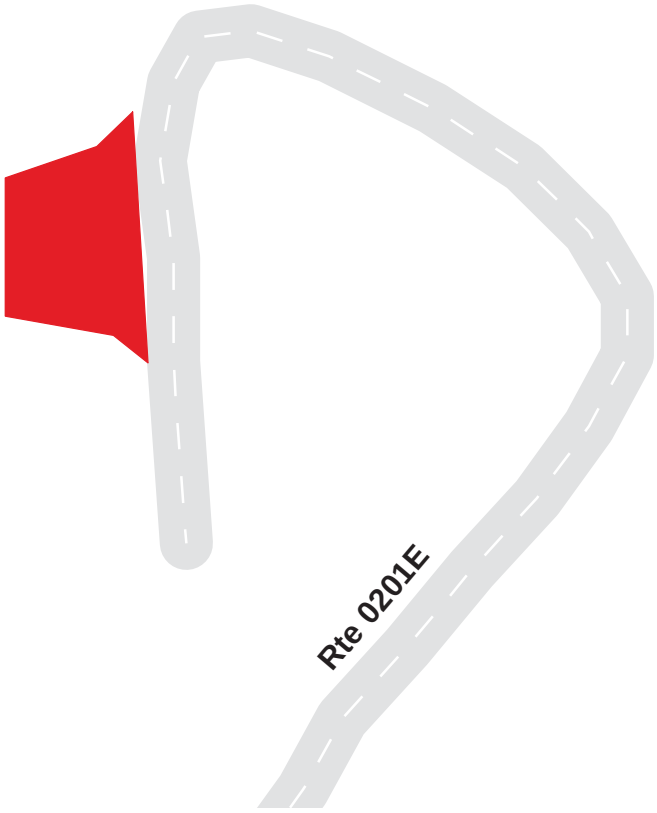
70 35 0 70 Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0923E
PLATTE RIVER WALK-IN CAMPGROUND PARKING E
FROM ROUTE 0201E

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923E	Public	6/29/2003	790	0.01	AS	GOOD / 90

* Lane miles are based on 11' lane widths



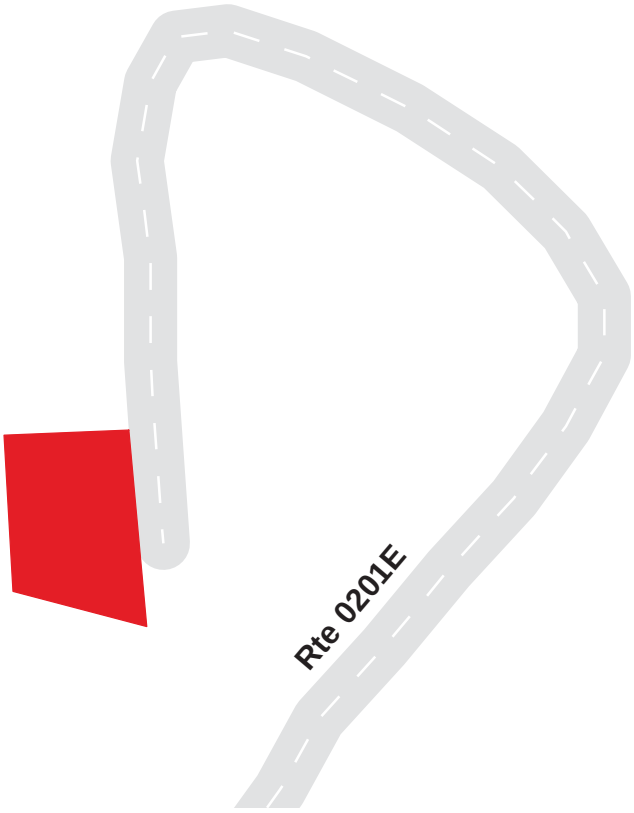
70 35 0 70 Feet

N

Sleeping Bear Dunes National Lakeshore
Route 0923F
PLATTE RIVER WALK-IN CAMPGROUND PARKING F
FROM ROUTE 0201E

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923F	Public	6/29/2003	739	0.01	AS	GOOD / 90

* Lane miles are based on 11' lane widths



70 35 0 70 Feet

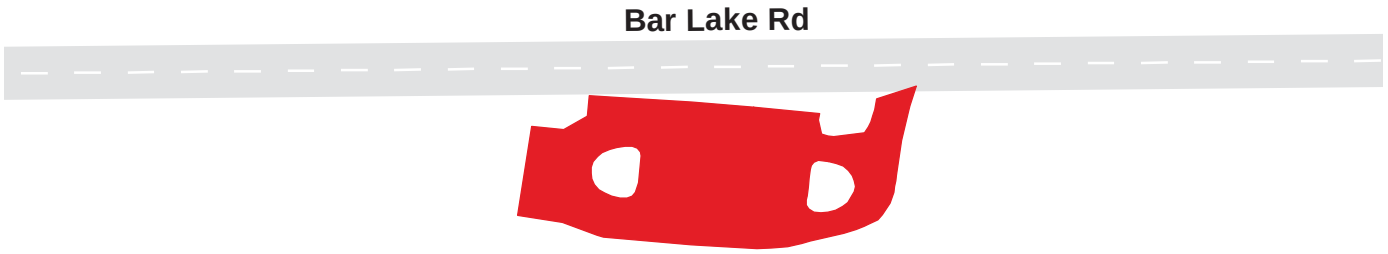
N

7-35

Sleeping Bear Dunes National Lakeshore
Route 0940
NORTH BAR ACCESS PARKING
FROM BAR LAKE ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0940	Public	6/29/2003	23821	0.41	AS	GOOD / 90

* Lane miles are based on 11' lane widths



SLBE: PARKWIDE MAINTENANCE FEATURES SUMMARY

FEATURE	PARK TOTAL	UNIT
BRIDGE	1	EACH
CATTLE GUARD	0	EACH
CULVERT	7	EACH
CURB	26,242	LINEAR FEET
DROP INLET	4	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	396	LINEAR FEET
INTERSECTION	100	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	20	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

SLBE: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 PLATTE RIVER CAMPGROUND ACCESS ROAD	ROUTE 0012 STOCKING SCENIC DRIVE	ROUTE 0200 PLATTE RIVER CAMPGROUND ROAD	ROUTE 0201A PLATTE RIVER CAMPGROUND LOOP A	ROUTE 0201B PLATTE RIVER CAMPGROUND LOOP B	ROUTE 0201C PLATTE RIVER CAMPGROUND LOOP C	UNIT
BRIDGE	0	1	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	7	0	0	0	0	EACH
CURB	264	23,253	0	79	95	158	LINEAR FEET
DROP INLET	0	4	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	396	0	0	0	0	LINEAR FEET
INTERSECTION	8	18	5	4	6	5	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	7	0	1	1	1	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

SLBE: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0201D PLATTE RIVER CAMPGROUND LOOP D	ROUTE 0201E PLATTE RIVER CAMPGROUND LOOP E	ROUTE 0201F PLATTE RIVER CAMPGROUND LOOP F	ROUTE 0201G PLATTE RIVER CAMPGROUND LOOP G	ROUTE 0201H PLATTE RIVER CAMPGROUND LOOP H	ROUTE 0201I PLATTE RIVER CAMPGROUND LOOP I	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	69	850	982	153	180	158	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	6	10	7	6	3	3	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	1	2	0	2	2	2	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

SLBE: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0212 EMPIRE MAINTENANCE AREA ACCESS ROAD (WISNEWSKI	ROUTE 0401 EMPIRE RADAR TOWER ROAD	ROUTE 0402 EMPIRE EQUIPMENT STORAGE ROAD	ROUTE 0403 BARRACKS STREET	ROUTE 0410 KLETT FARM ACCESS ROAD	UNIT
BRIDGE	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	EACH
CURB	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	LINEAR FEET
INTERSECTION	10	3	2	3	1	EACH
LOW WATER CROSSING	0	0	0	0	0	EACH
OVERHEAD SIGN	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	1	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	LINEAR FEET

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : PLATTE RIVER CAMPGROUND ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT LAKE MICHIGAN ROAD
0.001	0.001	INTERSECTION	RIGHT	LAKE MICHIGAN ROAD
0.046	0.046	INTERSECTION	RIGHT	RTE 904
0.108	0.108	INTERSECTION	LEFT	RTE 907
0.109	0.109	INTERSECTION	RIGHT	RTE 906
0.112	0.140	CURB	LEFT	
0.120	0.142	CURB	RIGHT	
0.142	0.142	INTERSECTION	LEFT	RTE 907
0.145	0.145	INTERSECTION	RIGHT	RTE 906
0.249	0.249	INTERSECTION	LEFT	RTE 200
0.250	0.250			ROUTE ENDS AT ROUTE 200
0.250	0.250	INTERSECTION	RIGHT	RTE 200

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012 : STOCKING SCENIC DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 109
0.002	0.002	INTERSECTION	RIGHT	STATE HIGHWAY 109
0.007	0.007	CULVERT	N/A	
0.021	0.314	CURB	LEFT	
0.074	0.177	CURB	RIGHT	
0.184	0.184	INTERSECTION	RIGHT	RTE 911
0.194	0.403	CURB	RIGHT	
0.321	0.338	CURB	LEFT	
0.357	0.357	INTERSECTION	LEFT	RTE 913
0.367	0.375	CURB	LEFT	
0.380	0.380	INTERSECTION	LEFT	RTE 913
0.388	0.398	CURB	LEFT	
0.538	0.590	CURB	RIGHT	
0.620	0.620	CULVERT	N/A	
0.620	0.727	CURB	RIGHT	
0.647	0.647	INTERSECTION	LEFT	RTE 012
0.651	0.664	CURB	LEFT	
0.667	0.667	INTERSECTION	LEFT	RTE 012
0.707	0.931	CURB	LEFT	
0.922	1.113	CURB	RIGHT	
1.018	1.018	INTERSECTION	LEFT	RTE 917
1.075	1.126	GUARDRAIL	LEFT	
1.078	1.251	CURB	LEFT	
1.087	1.111	GUARDRAIL	RIGHT	
1.096	1.096	DROP INLET	RIGHT	
1.098	1.103	BRIDGE	N/A	
1.109	1.109	DROP INLET	LEFT	

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012 : STOCKING SCENIC DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.112	1.147	PULLOUT	RIGHT	
1.179	1.179	CULVERT	N/A	
1.426	1.464	CURB	RIGHT	
1.632	1.643	CURB	RIGHT	
1.655	1.712	CURB	RIGHT	
1.749	1.758	CURB	RIGHT	
1.852	1.885	CURB	RIGHT	
1.855	1.884	PULLOUT	RIGHT	
2.166	2.387	CURB	LEFT	
2.170	2.170	INTERSECTION	RIGHT	RTE 914
2.178	2.185	CURB	RIGHT	
2.266	2.273	CURB	RIGHT	
2.267	2.267	CULVERT	N/A	
2.274	2.298	CURB	RIGHT	
2.276	2.276	INTERSECTION	RIGHT	RTE 914
2.305	2.305	INTERSECTION	RIGHT	ROUTE 915
2.309	2.342	CURB	RIGHT	
2.348	2.348	INTERSECTION	RIGHT	RTE 916
2.382	2.382	DROP INLET	LEFT	
2.405	2.432	PULLOUT	LEFT	
2.659	2.786	CURB	LEFT	
2.832	2.864	PULLOUT	RIGHT	
2.861	2.965	CURB	LEFT	
2.962	2.981	PULLOUT	RIGHT	
3.001	3.592	CURB	RIGHT	
3.564	3.659	CURB	LEFT	
3.734	4.053	CURB	RIGHT	

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012 : STOCKING SCENIC DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.850	3.850	INTERSECTION	LEFT	RTE 917
3.909	3.937	PULLOUT	RIGHT	
4.096	4.190	CURB	RIGHT	
4.142	4.198	CURB	LEFT	
4.248	4.373	CURB	RIGHT	
4.363	4.618	CURB	LEFT	
4.545	4.683	CURB	RIGHT	
5.120	5.120	INTERSECTION	RIGHT	RTE 918
5.124	5.192	CURB	LEFT	
5.145	5.145	CULVERT	N/A	
5.261	5.268	CURB	RIGHT	
5.268	5.370	CURB	LEFT	
5.271	5.271	INTERSECTION	RIGHT	RTE 918
5.538	5.538	INTERSECTION	RIGHT	RTE 919
5.625	5.672	CURB	RIGHT	
5.643	5.643	CULVERT	N/A	
5.729	5.737	CURB	RIGHT	
5.729	5.869	CURB	LEFT	
5.743	5.743	INTERSECTION	RIGHT	RTE 919
5.863	6.119	CURB	RIGHT	
5.868	5.908	PULLOUT	RIGHT	
5.944	5.965	CURB	LEFT	
5.978	5.978	DROP INLET	RIGHT	
6.114	6.114	CULVERT	N/A	
6.480	6.480	INTERSECTION	RIGHT	RTE 012
6.482	6.493	CURB	RIGHT	
6.491	6.491	INTERSECTION	RIGHT	END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012 : STOCKING SCENIC DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
6.500	6.500			ROUTE ENDS AT END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : PLATTE RIVER CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 010
0.023	0.023	INTERSECTION	RIGHT	RTE 201B
0.036	0.036	INTERSECTION	LEFT	RTE 909
0.061	0.061	INTERSECTION	RIGHT	RTE 201C
0.120	0.120	INTERSECTION	LEFT	RTE 201F
0.168	0.168	INTERSECTION	RIGHT	INTERSECTIONS OF 201D AND 201E
0.170	0.170			ROUTE ENDS AT INTERSECTIONS OF 201D AND 201E

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201A : PLATTE RIVER CAMPGROUND LOOP A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 201G
0.002	0.002	INTERSECTION	LEFT	ROUTE 201G
0.002	0.002	INTERSECTION	RIGHT	ROUTE 201G
0.070	0.070	INTERSECTION	LEFT	ROUTE 908
0.075	0.090	CURB	RIGHT	
0.119	0.132	PULLOUT	LEFT	
0.148	0.148	INTERSECTION	LEFT	
0.150	0.150			ROUTE ENDS AT END

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201B : PLATTE RIVER CAMPGROUND LOOP B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.008	0.008	INTERSECTION	LEFT	ROUTE 200
0.009	0.009	INTERSECTION	RIGHT	ROUTE 200
0.055	0.055	INTERSECTION	LEFT	RTE 201B
0.140	0.158	CURB	LEFT	
0.141	0.155	PULLOUT	LEFT	
0.341	0.341	INTERSECTION	LEFT	
0.376	0.376	INTERSECTION	RIGHT	END OF LOOP
0.377	0.377	INTERSECTION	LEFT	END OF LOOP
0.380	0.380			ROUTE ENDS AT END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201C : PLATTE RIVER CAMPGROUND LOOP C

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.007	0.007	INTERSECTION	LEFT	ROUTE 200
0.009	0.009	INTERSECTION	RIGHT	ROUTE 200
0.016	0.016	INTERSECTION	LEFT	RTE 201C
0.091	0.109	CURB	LEFT	
0.094	0.110	PULLOUT	LEFT	
0.365	0.377	CURB	LEFT	
0.386	0.386	INTERSECTION	LEFT	END OF LOOP
0.386	0.386	INTERSECTION	RIGHT	END OF LOOP
0.390	0.390			ROUTE ENDS AT END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201D : PLATTE RIVER CAMPGROUND LOOP D

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.001	0.001	INTERSECTION	RIGHT	RTE 200
0.028	0.028	INTERSECTION	LEFT	RTE 201D
0.100	0.100	INTERSECTION	RIGHT	RTE 201I
0.206	0.208	CURB	LEFT	
0.218	0.218	INTERSECTION	RIGHT	RTE 201I
0.374	0.385	CURB	RIGHT	
0.374	0.385	PULLOUT	RIGHT	
0.452	0.452	INTERSECTION	LEFT	END OF LOOP
0.454	0.454	INTERSECTION	RIGHT	END OF LOOP
0.460	0.460			ROUTE ENDS AT END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201E : PLATTE RIVER CAMPGROUND LOOP E

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.011	0.011	INTERSECTION	RIGHT	RTE 201D
0.132	0.157	PULLOUT	LEFT	
0.134	0.166	PULLOUT	RIGHT	
0.152	0.162	CURB	LEFT	
0.152	0.240	CURB	RIGHT	
0.166	0.166	INTERSECTION	LEFT	RTE 201E
0.170	0.233	CURB	LEFT	
0.180	0.180	INTERSECTION	RIGHT	RTE 923A
0.193	0.193	INTERSECTION	RIGHT	RTE 923B
0.201	0.201	INTERSECTION	RIGHT	RTE 923C
0.214	0.214	INTERSECTION	RIGHT	RTE 923D
0.217	0.217	INTERSECTION	RIGHT	RTE 923E
0.228	0.228	INTERSECTION	RIGHT	RTE 923F
0.237	0.237	INTERSECTION	RIGHT	END OF LOOP
0.238	0.238	INTERSECTION	LEFT	END OF LOOP
0.240	0.240			ROUTE ENDS AT END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201F : PLATTE RIVER CAMPGROUND LOOP F

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.004	0.004	INTERSECTION	LEFT	ROUTE 200
0.004	0.004	INTERSECTION	RIGHT	ROUTE 200
0.013	0.013	INTERSECTION	LEFT	RTE 201F
0.028	0.154	CURB	RIGHT	
0.047	0.047	INTERSECTION	RIGHT	RTE 922A
0.056	0.116	CURB	LEFT	
0.091	0.091	INTERSECTION	RIGHT	RTE 922B
0.139	0.139	INTERSECTION	RIGHT	RTE 922C
0.159	0.159	INTERSECTION	LEFT	END OF LOOP
0.160	0.160			ROUTE ENDS AT END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201G : PLATTE RIVER CAMPGROUND LOOP G

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.009	0.009	INTERSECTION	RIGHT	RTE 200
0.084	0.093	CURB	LEFT	
0.086	0.094	PULLOUT	LEFT	
0.098	0.098	INTERSECTION	LEFT	RTE 201G
0.118	0.118	INTERSECTION	RIGHT	RTE 201D
0.126	0.146	CURB	LEFT	
0.127	0.145	PULLOUT	LEFT	
0.279	0.279	INTERSECTION	RIGHT	ROUTE 201H
0.340	0.340	INTERSECTION	RIGHT	RTE 201H
0.387	0.387	INTERSECTION	LEFT	END OF LOOP
0.390	0.390			ROUTE ENDS AT END OF LOOP

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201H : PLATTE RIVER CAMPGROUND LOOP H

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 201G
0.007	0.007	INTERSECTION	LEFT	ROUTE 201G
0.009	0.009	INTERSECTION	RIGHT	ROUTE 201G
0.016	0.030	CURB	LEFT	
0.017	0.031	PULLOUT	LEFT	
0.110	0.130	CURB	LEFT	
0.111	0.132	PULLOUT	LEFT	
0.188	0.188	INTERSECTION	RIGHT	RTE 201G
0.190	0.190			ROUTE ENDS AT ROUTE 201G

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201I : PLATTE RIVER CAMPGROUND LOOP I

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 201D
0.003	0.003	INTERSECTION	LEFT	ROUTE 201D
0.004	0.004	INTERSECTION	RIGHT	ROUTE 201D
0.015	0.034	CURB	LEFT	
0.019	0.034	PULLOUT	LEFT	
0.129	0.142	PULLOUT	LEFT	
0.130	0.141	CURB	LEFT	
0.220	0.220			ROUTE ENDS AT ROUTE 201D
0.221	0.221	INTERSECTION	LEFT	RTE 201D

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0212 : EMPIRE MAINTENANCE AREA ACCESS ROAD (WISNEWSKI RD)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT WILCO ROAD
0.172	0.172	INTERSECTION	RIGHT	
0.237	0.237	INTERSECTION	RIGHT	RTE 402
0.263	0.263	INTERSECTION	LEFT	RTE 910A
0.279	0.279	INTERSECTION	LEFT	RTE 910E
0.294	0.294	INTERSECTION	LEFT	RTE 910D
0.295	0.295	INTERSECTION	RIGHT	
0.308	0.308	INTERSECTION	LEFT	RTE 910C
0.348	0.348	INTERSECTION	RIGHT	RTE 401
0.352	0.352	INTERSECTION	LEFT	RTE 910B
0.370	0.370			ROUTE ENDS AT ROUTE 910
0.374	0.374	INTERSECTION	LEFT	RTE 910

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0401 : EMPIRE RADAR TOWER ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 212
0.007	0.007	INTERSECTION	LEFT	ROUTE 212
0.007	0.007	INTERSECTION	RIGHT	RTE 212
0.088	0.088	INTERSECTION	RIGHT	
0.110	0.120	PULLOUT	RIGHT	
0.120	0.120			ROUTE ENDS AT END AT FENCE

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0402 : EMPIRE EQUIPMENT STORAGE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 212
0.007	0.007	INTERSECTION	RIGHT	RTE 212
0.040	0.040	INTERSECTION	LEFT	NPS GRAVEL PARKING
0.060	0.060			ROUTE ENDS AT END

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0403 : BARRACKS STREET

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 22
0.004	0.004	INTERSECTION	RIGHT	STATE HIGHWAY 22
0.020	0.020	INTERSECTION	RIGHT	RTE 403 SPUR
0.120	0.120			ROUTE ENDS AT END AT RESIDENCES
0.120	0.120	INTERSECTION	RIGHT	

SLBE: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0410 : KLETT FARM ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 22
0.001	0.001	INTERSECTION	RIGHT	STATE HIGHWAY 22
0.120	0.120			ROUTE ENDS AT END AT FARM

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
6620	Numeric Code for Sleeping Bear Dunes National Lakeshore
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)
Poor	Poor Rating with an index value of 60 or less

RCI	Roughness Condition Index
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total defined "season"
SCR	Surface Condition Rating (see Section 10)
Shoulder Condition Rating	Visual rating (Good, Poor) of the condition of shoulder. (see Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point
SLBE	Alpha Code for Sleeping Bear Dunes National Lakeshore

APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

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

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

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

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

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

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

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

Rating Index Formulas

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

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

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

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

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

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

Ratings - Chip Seal:

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

Surface Condition - Asphalt:

Cracking of any type
Rutting
Potholes/Patching

Ratings - Asphalt:

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

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

Excellent	97
Good	90
Fair	73
Poor	45

Drainage Condition Rating Definitions

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

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

Drainage Condition Rating Criteria

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

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

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

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

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

Shoulder Condition Rating Definitions

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

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

Shoulder Rating Criteria

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

Good Shoulders

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

Poor Shoulder

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

APPENDIX C: DIGITAL IMAGE INFORMATION

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

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

APPENDIX D: METADATA

ARAN ROUTE GPS DATA

Background information of route spatial data.

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

Data Collection Device:

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

Accuracy: Expected ground accuracy is 1 meter *

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

Geographic Datum: WGS 1984

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

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

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

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

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

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

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

Specific Caveats

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

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

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

Key to Notes in Tables

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

Access Database Metadata

Master Table Metadata:

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

PMS_Feature Table Metadata:

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

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

PMS_20, PMS_Mile & PMS_Visidata Tables Metadata:

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

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

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

Cycle 3 Shapefile Metadata

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

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: WGS 1984

slbe_seg

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: slbe_seg
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Routes
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -86.120789
East_Bounding_Coordinate: -85.936699
North_Bounding_Coordinate: 44.937408
South_Bounding_Coordinate: 44.712524
Keywords:
Theme:
Theme_Keyword_Thesaurus: SLBE
Theme_Keyword: SLBE

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

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 82

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

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

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

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

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

Attribute:
Attribute_Label: ID

Attribute:
Attribute_Label: RTE_NO

Attribute:
Attribute_Label: BMP

Attribute:
Attribute_Label: EMP

Attribute:
Attribute_Label: PCR

Attribute:
Attribute_Label: PCR_RATE

Attribute:
Attribute_Label: RT_LENGTH

Attribute:
Attribute_Label: PCRMI

Attribute:
Attribute_Label: PCR_RATEMI

Attribute:
Attribute_Label: PCR_RATEAV

Attribute:
Attribute_Label: PCRAV

Attribute:
Attribute_Label: TSR_EDIT

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:

Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050829
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

Generated by mp version 2.7.33 on Mon Aug 29 11:57:27 2005

slbe_pkg_03

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: slbe_pkg_03
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Parking Areas
Purpose: Road Inventory Program
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 6/30/2003
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -86.155878
East_Bounding_Coordinate: -86.034200
North_Bounding_Coordinate: 44.907712
South_Bounding_Coordinate: 44.707915
Keywords:
Theme:
Theme_Keyword_Thesaurus: SLBE
Theme_Keyword: SLBE
Access_Constraints: None
Use_Constraints: Redistribution needs permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:

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

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 36

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

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: slbe_pkg_03
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: PARK_ALPHA
Attribute_Definition: Park alpha code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NAME
Attribute_Definition: Route name
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: FEATURE
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Domain_Values:
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating for route
Attribute:
Attribute_Label: PHOTOS
Attribute_Definition: Photo filename associated with feature
Attribute:
Attribute_Label: COMMENT
Attribute_Definition: Field comment
Attribute:
Attribute_Label: GPS_DATE
Attribute_Definition: Date of GPS collection
Attribute:
Attribute_Label: DATAFILE
Attribute:
Attribute_Label: SQ_FT

Attribute_Definition: Feature area in square feet

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

Metadata_Reference_Information:
Metadata_Date: 20050829
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

Generated by mp version 2.7.33 on Mon Aug 29 11:55:41 2005

slbe_pkg_03_map

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: slbe_pkg_03_map
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Copy of Parking Areas
Purpose: Road Inventory Program
Supplemental_Information:
This shapefile is a copy of the source parking shapefile. The features are edited as needed for graphic purposes.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 6/30/2003
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -86.155878
East_Bounding_Coordinate: -86.034190
North_Bounding_Coordinate: 44.907774
South_Bounding_Coordinate: 44.707945
Keywords:
Theme:
Theme_Keyword_Thesaurus: SLBE
Theme_Keyword: SLBE
Access_Constraints: None

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

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 36

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

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: slbe_pkg_03_map
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: PARK_ALPHA
Attribute_Definition: Park alpha code
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RTE_NAME
Attribute_Definition: Route name
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: FEATURE
Attribute:
Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Domain_Values:
Attribute:
Attribute_Label: CONDITION
Attribute_Definition: Condition rating for route
Attribute:
Attribute_Label: PHOTOS
Attribute_Definition: Photo filename associated with feature
Attribute:
Attribute_Label: COMMENT
Attribute_Definition: Field comment
Attribute:
Attribute_Label: GPS_DATE
Attribute_Definition: Date of GPS collection

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

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

Metadata_Reference_Information:
Metadata_Date: 20050829
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

Generated by mp version 2.7.33 on Mon Aug 29 11:55:56 2005

slbe_nonNPS

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: slbe_nonNPS
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: non-NPS roads
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from heads-up digitizing of roads representing non-NPS roads for graphic purposes
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -86.155933
East_Bounding_Coordinate: -86.029937
North_Bounding_Coordinate: 44.909521
South_Bounding_Coordinate: 44.704037
Keywords:
Theme:
Theme_Keyword_Thesaurus: SLBE
Theme_Keyword: SLBE
Access_Constraints: None

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

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Good
Completeness_Report: Complete for non-NPS roads
Lineage:
Source_Information:
Type_of_Source_Media: Heads-up digitized

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 7

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

Denominator_of_Flattening_Ratio: 294.978698

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

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

Metadata_Reference_Information:
Metadata_Date: 20050829
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia

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

Generated by mp version 2.7.33 on Mon Aug 29 11:56:56 2005

slbe_mi_pt

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: slbe_mi_pt
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Mile Points
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. All attributes found in the PMS_20 table are found on the miles points.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: Not Available
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -86.120789
East_Bounding_Coordinate: -85.936699
North_Bounding_Coordinate: 44.937408
South_Bounding_Coordinate: 44.712769
Keywords:
Theme:
Theme_Keyword_Thesaurus: SLBE
Theme_Keyword: SLBE
Access_Constraints: None

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

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Entity point
Point_and_Vector_Object_Count: 23

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

Denominator_of_Flattening_Ratio: 294.978698

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: GPS_LAT
Attribute_Definition: Latitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_LON
Attribute_Definition: Longitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_ELEV
Attribute_Definition: Elevation
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_MODE
Attribute_Definition: GPS mode during collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: VIDEO
Attribute_Definition: Removable USB video hard drive number
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: IMAGE
Attribute_Definition: Filename of .jpg image showing road interval
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: SPEED
Attribute_Definition: Average ARAN speed during data collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: BRIDGE_FLA
Attribute_Definition: Flag indicating presence of bridge in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: CONSTR_FLA
Attribute_Definition: Flag indicating construction in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LANEDEV_FL
Attribute_Definition: Flag indicating lane deviation in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: DATE
Attribute_Definition: Data collection date
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: NODISTRESS
Attribute_Definition: Flag indicating absence of pavement distress
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: FILENAME

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

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

Metadata_Reference_Information:
Metadata_Date: 20050829
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia

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

Generated by mp version 2.7.33 on Mon Aug 29 11:56:37 2005

slbe_mi

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: slbe_mi
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Routes
Purpose: Road Inventory Program
Supplemental_Information:
Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating provided in the PMS_mile table.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -86.120789
East_Bounding_Coordinate: -85.936699
North_Bounding_Coordinate: 44.937408
South_Bounding_Coordinate: 44.712524
Keywords:
Theme:
Theme_Keyword_Thesaurus: SLBE
Theme_Keyword: SLBE

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

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 21

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

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

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

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

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

Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050829
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

Generated by mp version 2.7.33 on Mon Aug 29 11:56:21 2005