



The Road Inventory
for
Mammoth Cave National Park



national park service



Road Inventory Program

Prepared by:

Federal Highway Administration

Central Federal Lands Highway Division

January 2000



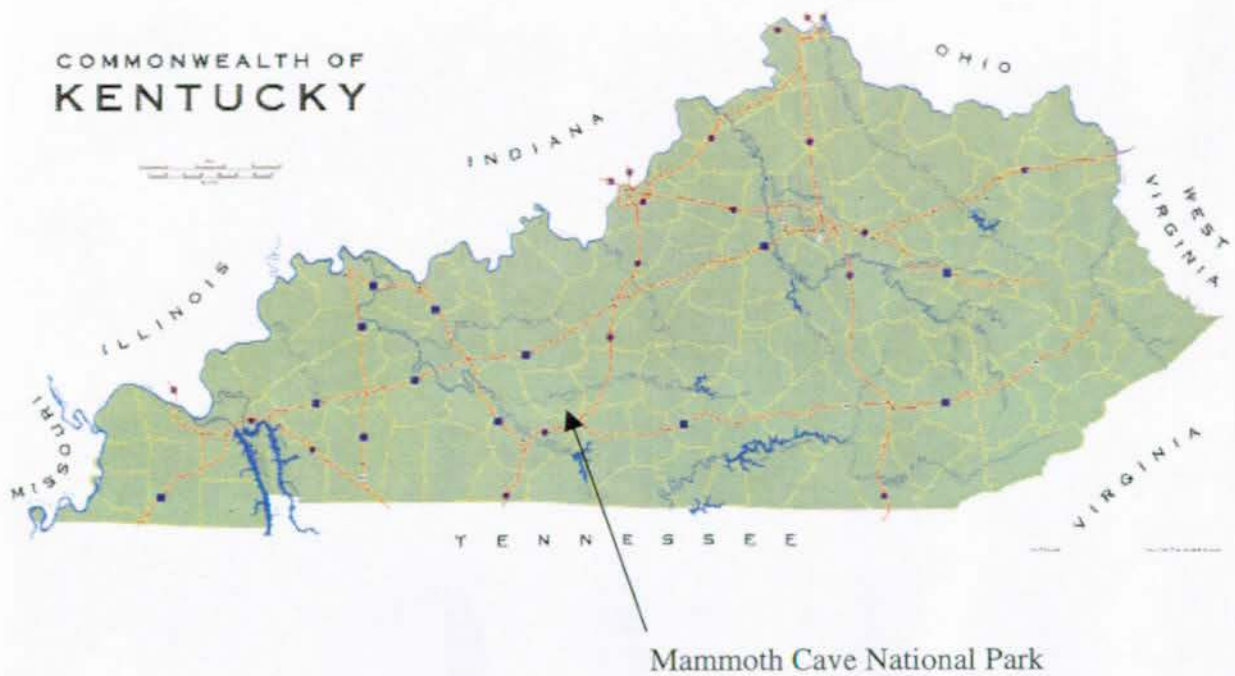
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Mammoth Cave National Park in Kentucky





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INTRODUCTION

Background: In July 1976, amended December 1980, The National Park Service (NPS) and the Federal Highway Administration (FHWA) entered into a Memorandum of Agreement (MOA), establishing the Road Inventory Program (RIP). The purpose of RIP, per the 1980 MOA, was to develop long range and short range costs and programs to bring NPS roads up to, or to maintain, designated standards; as well as provide a database so the NPS can revise their Maintenance Management System, if necessary.

Since 1984 the funding has been derived from the NPS FLHP (Title 23) planning funds and coordinated by the National Park Service Park Facility Management Division. The need for a total road information data base was mandated by the requirements for continuing, comprehensive, and coordinated (3-C) planning process and Maintenance Management System.

The Federal Lands Highway (FLH) was assigned the task to inventory maintenance items (pavement type and quantities; location of culverts, signs, guardrail, etc.), identify pavement distresses and evaluate the condition of existing park roads, summarize the data and findings in a report, and provide a videolog of the NPS roads system.

Objective: The objective of the RIP report is to provide NPS personnel at all levels with the basic information needed for effective road and road system planning, management, operations, and maintenance. This information will be documented in an White Book for each park, which will replace the old Brown Books.

The White Book reports will be in a standard format and content with comprehensive data analysis for each park. The data presented in each report will vary greatly from park to park, but the presentation of the report will be uniform in format. Therefore, the White Book will become a seamless document throughout the park system displaying site specific data for each park.

Scope: The Road Inventory Program is a national program coordinated by the FHWA for the NPS. The FHWA goal for the paved park roads is stated as "the quality, standard and condition of the paved portion of park roads and parkways that serves the resource goals of the National Park System does not deteriorate further over the next five years".

In an effort to track the condition of the park roads, per the FHWA goal, a cyclic data collection and reporting process was implemented for all parks and regions. Monitoring the condition and system performance of the paved roads over time using a percent good, fair, and poor condition rating provided a realistic means of assessing the funding needs for road improvements. The pavement condition rating system is described in Section IX of this report. This pavement condition performance assessment will determine the level

of paved park road deterioration throughout the park road system as identified in the FHWA goal.

The report will include a Park Summary, a Park Summary Map, a Park Route Inventory, a Maintenance Features Summary, a Paved Route Condition Rating and a Features Inventory. Also included is a listing of all unpaved routes in each park and various Appendices.

The FHWA highway engineers and technicians inspect, rate, inventory the roads, and prepare the final White Book reports for distribution to the National Park Service. All the field work is coordinated with the site specific park and the regional offices to ensure customer satisfaction. The FHWA Washington office coordinates policy and prepares national reports and needs assessment studies to congress.

The FHWA is responsible for all the data presented in this report. Anyone having questions or comments regarding the contents of this report are encouraged to contact the FHWA RIP Coordinator or the NPS RIP Coordinator in your Cluster Support Office.

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MAMMOTH CAVE NATIONAL PARK SUMMARIES

PARK TOTALS SUMMARY ITEMS	TOTAL	DATE
PAVED ROUTE MILES	44.93	Aug-99
UNPAVED ROUTE ESTIMATED MILES	25.95	Aug-99
PAVED AND UNPAVED ROUTE MILES	70.88	Aug-99
PAVED PARKING LOT LANE MILES	11.14	Aug-99
PAVED ROUTE LANE MILES	84.27	Aug-99
TOTAL PAVED LANE MILES	95.41	Aug-99

Note: Paved Parking Lot Lane Miles are parking areas converted to lane miles assuming an 11-ft. lane width.
Red indicates estimated miles.

Estimated Unpaved Mileage by Functional Class

F.C.	MILEAGE	PERCENTAGE
I	-	-
II	10.47	40.3%
III	12.69	48.9%
IV	-	-
V	0.97	3.7%
VI	1.82	7.0%
VII	-	-
VIII	-	-

Paved Route Miles & Percentages by Functional Class and PCR/SCR

F.C.	Excellent (95-100)		Good (85-94)		Fair (61-84)		Poor (<=60)		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	
I	0.49	2.2%	15.46	71.0%	3.56	16.3%	2.27	10.4%	21.78
II	1.23	6.5%	4.12	21.7%	4.07	21.4%	9.61	50.5%	19.03
III	-	-	1.59	66.0%	0.82	34.0%	-	-	2.41
IV	-	-	-	-	-	-	-	-	-
V	-	-	0.27	23.1%	0.79	67.5%	0.11	9.4%	1.17
VI	-	-	-	-	-	-	-	-	-
VII	-	-	-	-	-	-	0.54	100.0%	0.54
VIII	-	-	-	-	-	-	-	-	-
Totals	1.72	3.8%	21.44	47.7%	9.24	20.6%	12.53	27.9%	44.93

Parking Lot Paved Lane Miles by Pavement Condition Rating (PCR)

PCR	Excellent (95-100)		Good (85-94)		Fair (61-84)		Poor (<=60)		TOTAL LANE MILES
	LANE MILES	%	LANE MILES	%	LANE MILES	%	LANE MILES	%	
	0.21	2%	10.31	92%	0.45	4%	0.18	2%	11.15

Cost to Improve to "Excellent" Condition

Based on Historical and Estimated Data

AWARD DATE	SOURCE	WORK PERFORMED	LENGTH (MILES)	COST	COST PER MILE	INITIAL CONDITION
1995-97	FHWA Projects	3-R (Resurfacing)	52.07	\$3,776,479	\$72,527	Good
1993-98	FHWA Projects	3-R (Resurfacing, Restoration, and Rehabilitation)	100.58	\$21,824,032	\$216,986	Fair
1993-98	FHWA Current Projects	4-R (Resurfacing, Restoration, and Rehabilitation)	29.22	\$33,942,148	\$1,161,602	Poor

Based on the above table, the cost to improve existing condition miles to "Excellent" PCR are:

Existing Condition	Existing Miles	Estimated Cost to Improve
Good	21.44	\$1,554,979
Fair	9.24	\$2,004,951
Poor	12.53	\$14,554,873
Totals	43.21	\$18,114,803

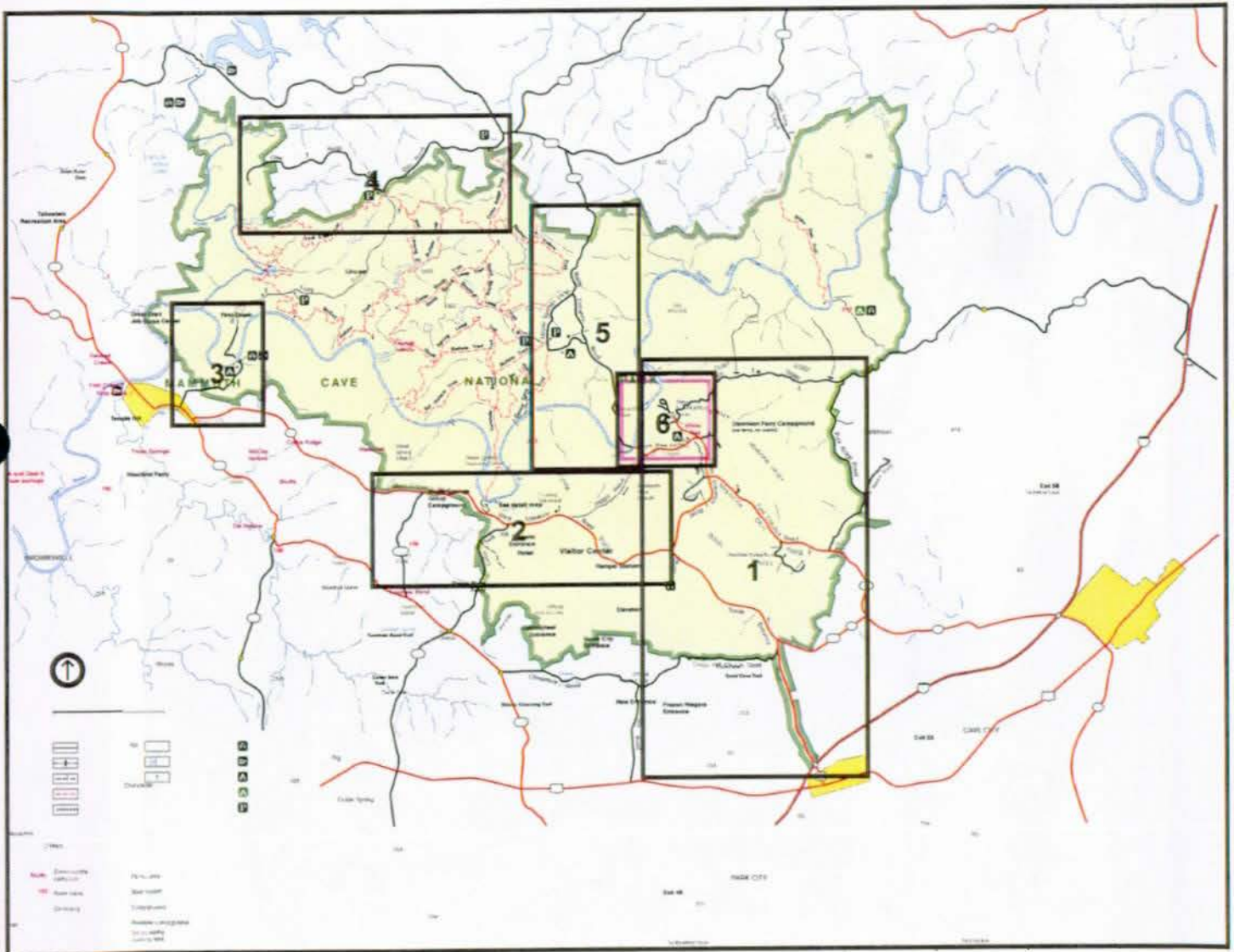
**MAMMOTH CAVE NATIONAL PARK : MACA
SECTIONING AND SAMPLE UNIT LOCATION**

ROUTE NUMBER	SECTION				SAMPLE UNIT			PERCENT SAMPLED
	NUMBER	START	END	LENGTH	NUMBER	START	LENGTH	
010	1	0.000	1.000	1.000	1	0.346	200	3.79
010	2	1.000	1.981	0.981	2	1.762	200	3.86
010	3	1.981	2.320	0.339	3	2.023	200	11.17
010	4	2.320	3.303	0.983	4	2.490	200	3.85
010	5	3.303	4.300	0.997	5	3.756	200	3.80
010	6	4.300	4.788	0.488	6	4.414	200	7.76
010	7	4.788	5.005	0.217	7	4.906	200	17.46
010	8	5.005	6.000	0.995	8	5.771	200	3.81
010	9	6.000	7.000	1.000	9	6.285	200	3.79
010	10	7.000	7.489	0.489	10	7.320	200	7.75
010	11	7.489	7.905	0.416	11	7.648	200	9.11
012	1	0.000	0.352	0.352	1	0.001	200	10.76
013	1	0.000	1.000	1.000	1	0.041	200	3.79
013	2	1.000	1.284	0.284	2	1.145	200	13.34
014	1	0.000	0.195	0.195	1	0.081	200	19.43
014	2	0.195	1.195	1.000	2	0.067	200	3.79
014	3	1.195	2.195	1.000	3	1.597	200	3.79
014	4	2.195	3.195	1.000	4	3.065	200	3.79
014	5	3.195	4.195	1.000	5	4.114	200	3.79
015	1	0.000	1.000	1.000	1	0.225	200	3.79
015	2	1.000	2.000	1.000	2	1.519	200	3.79
015	3	2.000	3.000	1.000	3	2.227	200	3.79
015	4	3.000	4.000	1.000	4	3.513	200	3.79
015	5	4.000	5.017	1.017	5	4.505	200	3.72
016	1	0.000	0.802	0.802	1	0.330	200	4.72
016	2	0.802	1.802	1.000	2	1.191	200	3.79
016	3	1.802	2.766	0.964	3	2.012	200	3.93
016	4	2.766	3.019	0.253	4	2.766	200	14.97
101	1	0.000	0.941	0.941	1	0.500	200	4.03
101	2	0.941	1.941	1.000	2	1.365	200	3.79
101	3	1.941	2.941	1.000	3	2.387	200	3.79
101	4	2.941	3.886	0.945	4	3.418	200	4.01
101	5	3.886	4.805	0.919	5	4.160	200	4.12
102	1	0.000	0.566	0.566	1	0.163	200	6.69
102	2	0.566	1.229	0.663	2	0.952	200	5.71
103	1	0.000	0.457	0.457	1	0.206	200	8.29
103	2	0.457	1.035	0.578	2	0.537	200	6.55
103n	1	0.000	0.400	0.400	1	0.100	200	9.47
106	1	0.000	0.959	0.959	1	0.944	200	3.95
106	2	0.959	1.705	0.746	2	1.148	200	5.08
106	3	1.705	2.705	1.000	3	1.894	200	3.79
106	4	2.705	3.622	0.917	4	2.706	200	4.13
108	1	0.000	0.455	0.455	1	0.235	200	8.33
110	1	0.000	0.504	0.504	1	0.297	200	7.52

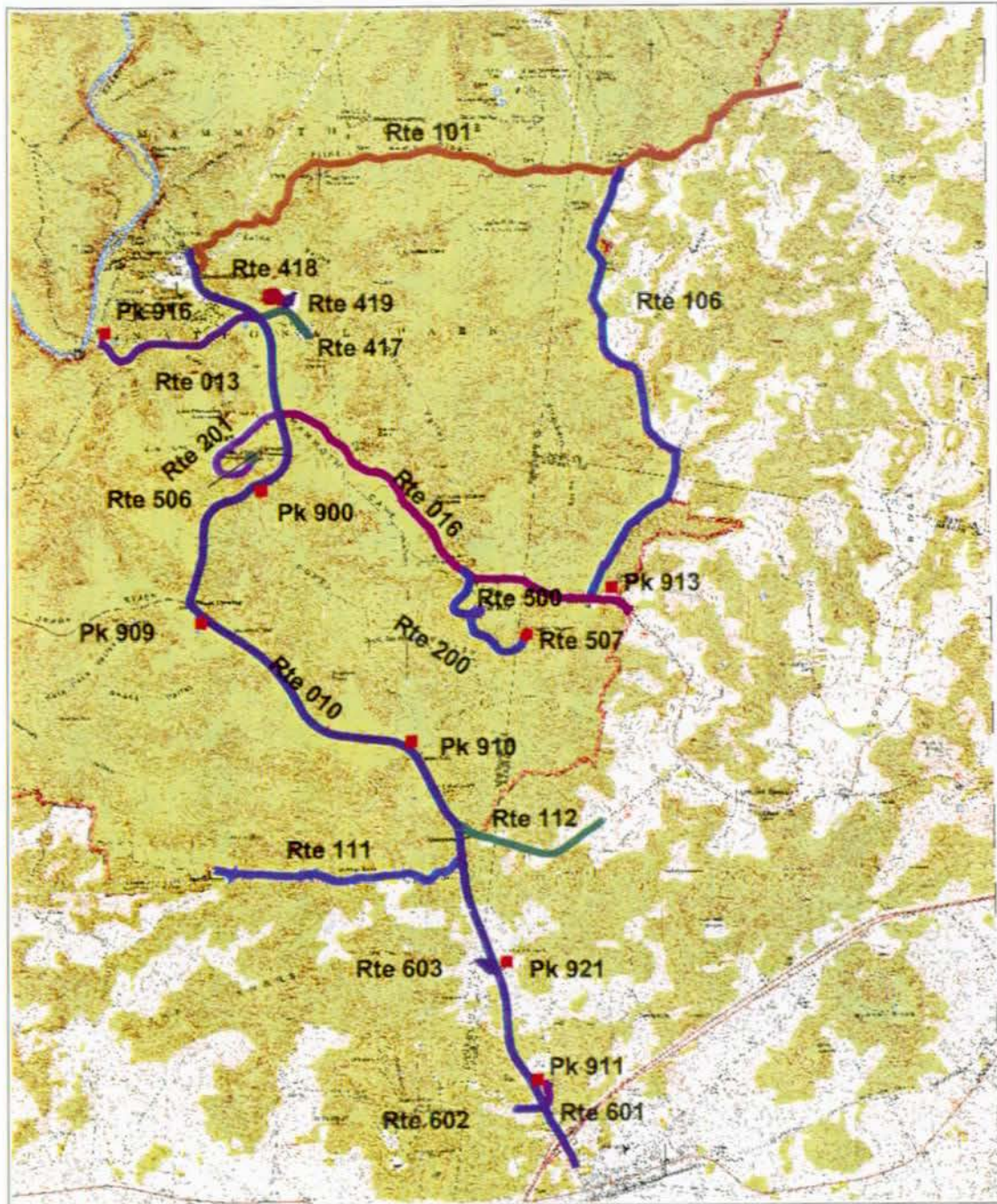
**MAMMOTH CAVE NATIONAL PARK : MACA
SECTIONING AND SAMPLE UNIT LOCATION**

ROUTE NUMBER	SECTION				SAMPLE UNIT			PERCENT SAMPLED
	NUMBER	START	END	LENGTH	NUMBER	START	LENGTH	
110	2	0.504	1.116	0.612	2	1.046	200	6.19
110	3	1.116	2.008	0.892	3	1.296	200	4.25
111	1	0.000	1.000	1.000	1	0.312	200	3.79
111	2	1.000	1.801	0.801	2	1.345	200	4.73
112	1	0.000	0.565	0.565	1	0.452	200	6.70
112	2	0.565	1.230	0.665	1	0.952	200	5.70
115	1	0.000	0.446	0.446	1	0.200	200	8.49
200	1	0.000	1.106	1.106	1	0.376	200	3.42
201	1	0.000	0.885	0.885	1	0.344	200	4.28
202	1	0.000	0.156	0.156	1	0.065	200	24.28
202	2	0.156	0.448	0.292	2	0.382	200	12.97
203	1	0.000	0.195	0.195	1	0.037	200	19.43
205	1	0.000	0.197	0.197	1	0.001	200	19.23
417	1	0.000	0.463	0.463	1	0.041	200	8.18
418	1	0.000	0.329	0.329	1	0.059	200	11.51
419	1	0.000	0.110	0.110	1	0.032	200	34.44
430	1	0.000	0.085	0.085	1	0.020	200	44.56
601	1	0.000	0.194	0.194	1	0.081	200	19.53
602	1	0.000	0.195	0.195	1	0.086	200	19.43
603	1	0.000	0.154	0.154	1	0.039	200	24.60
TOTAL PERCENTAGE OF PARK SAMPLED								5.62

MAMMOTH CAVE NATIONAL PARK ROUTE LOCATION KEY MAP



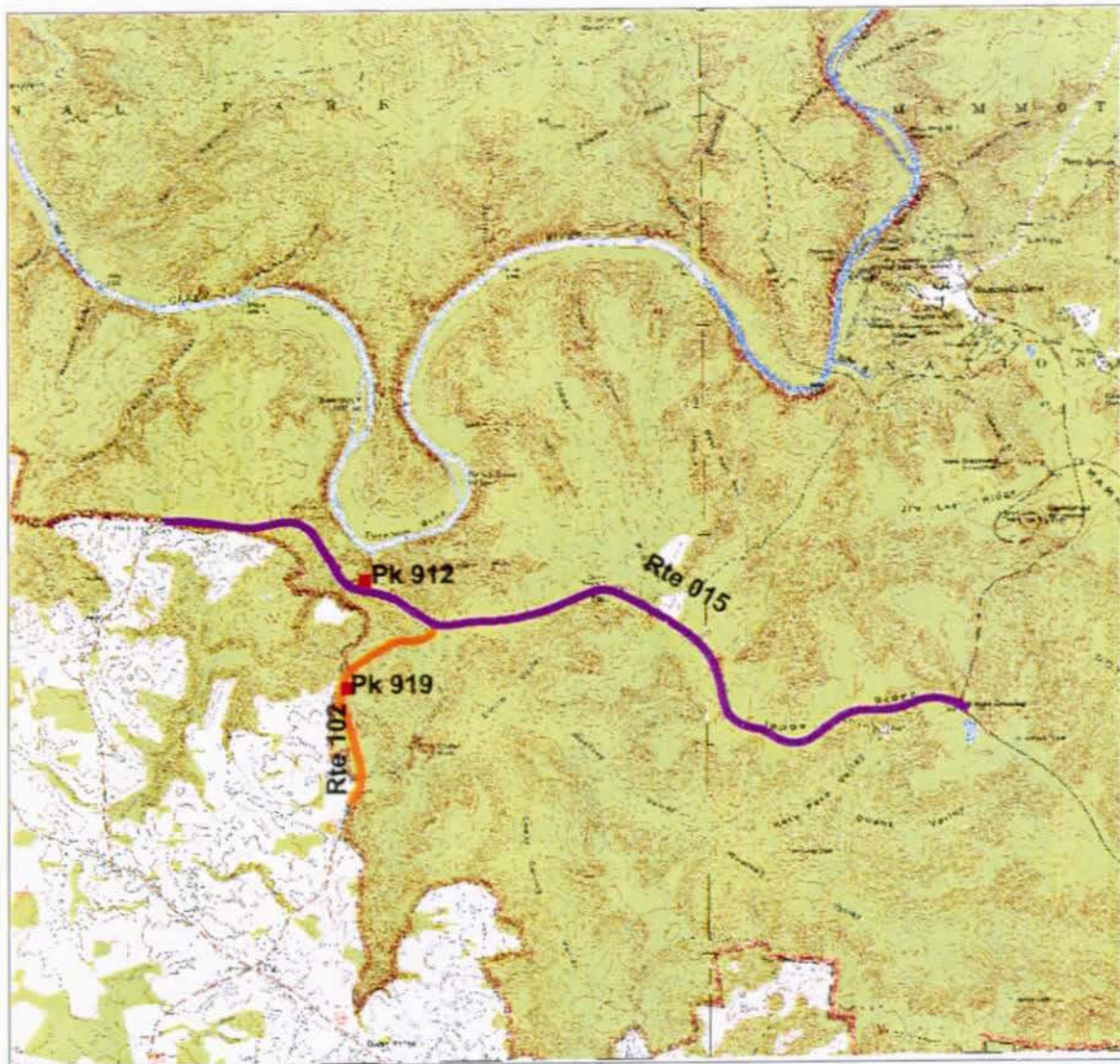
MAMMOTH CAVE NATIONAL PARK
ROUTE LOCATION
AREA MAP 1



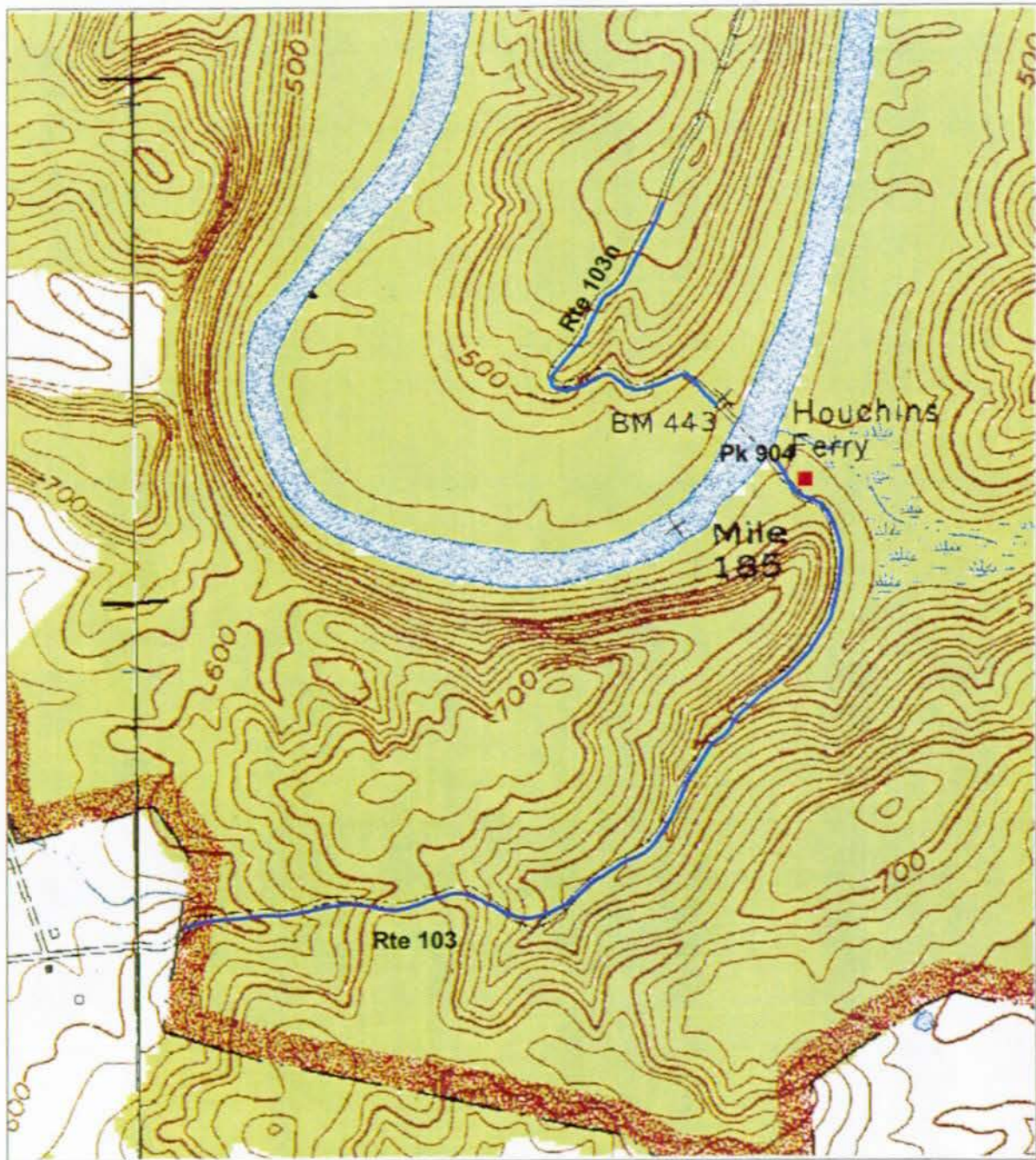
0.5 0 0.5 1 1.5 2 Miles



MAMMOTH CAVE NATIONAL PARK
ROUTE LOCATION
AREA MAP 2



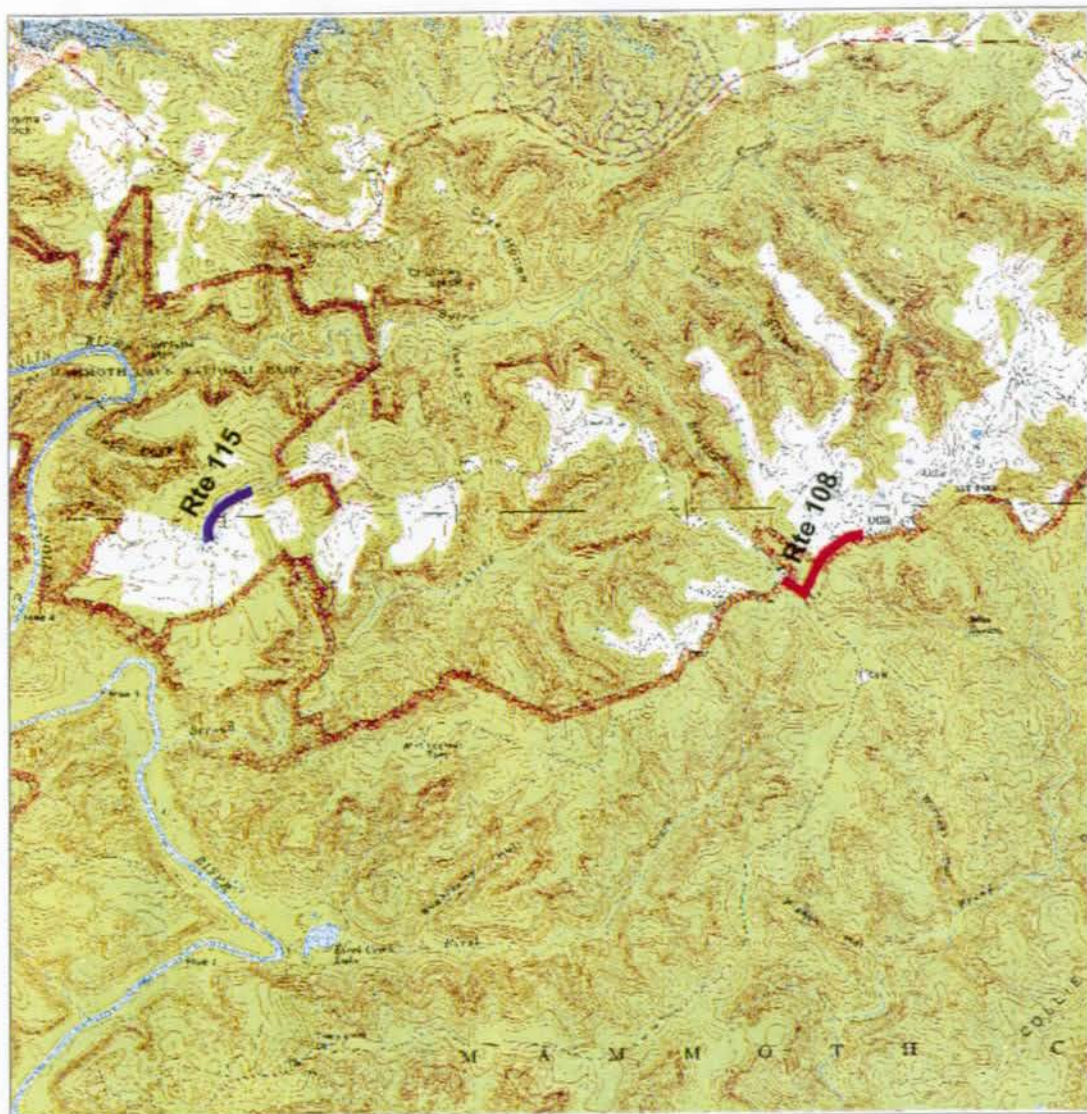
MAMMOTH CAVE NATIONAL PARK
ROUTE LOCATION
AREA MAP 3



0.1 0 0.1 0.2 0.3 0.4 0.5 Miles



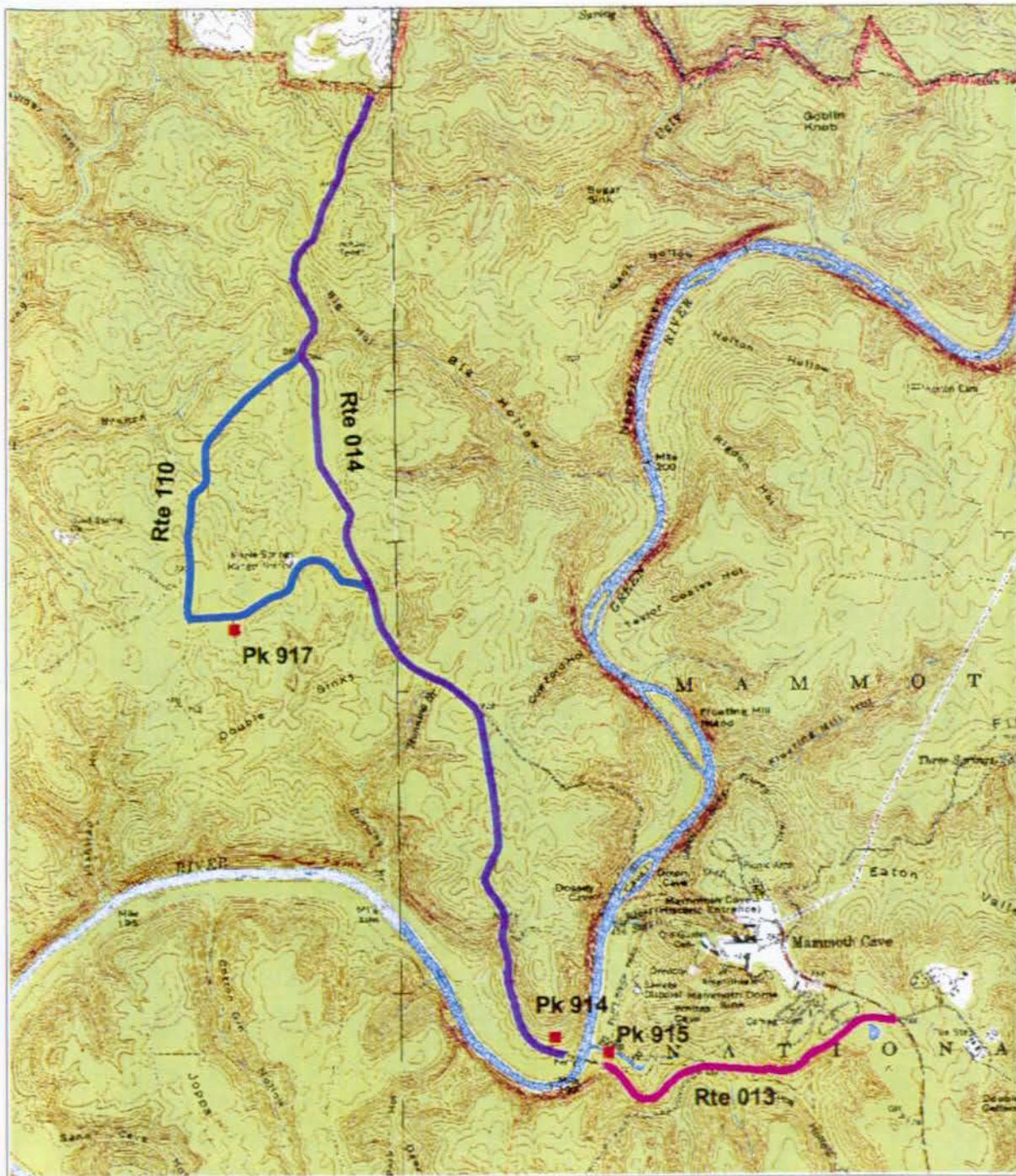
MAMMOTH CAVE NATIONAL PARK
ROUTE LOCATION
AREA MAP 4



0.5 0 0.5 1 Miles



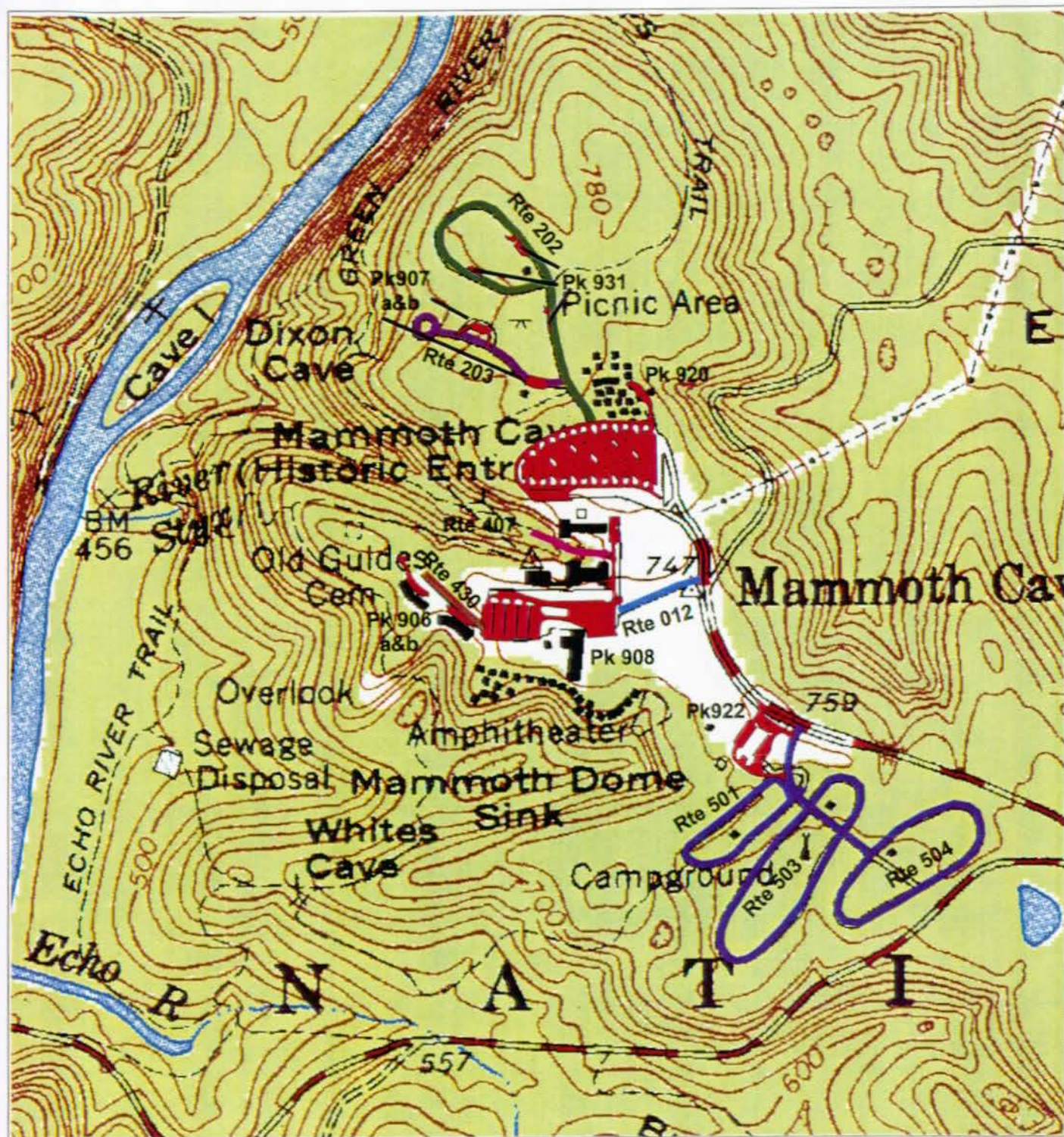
MAMMOTH CAVE NATIONAL PARK ROUTE LOCATION AREA MAP 5



0.5 0 0.5 1 Miles



MAMMOTH CAVE NATIONAL PARK
ROUTE LOCATION
AREA MAP 6

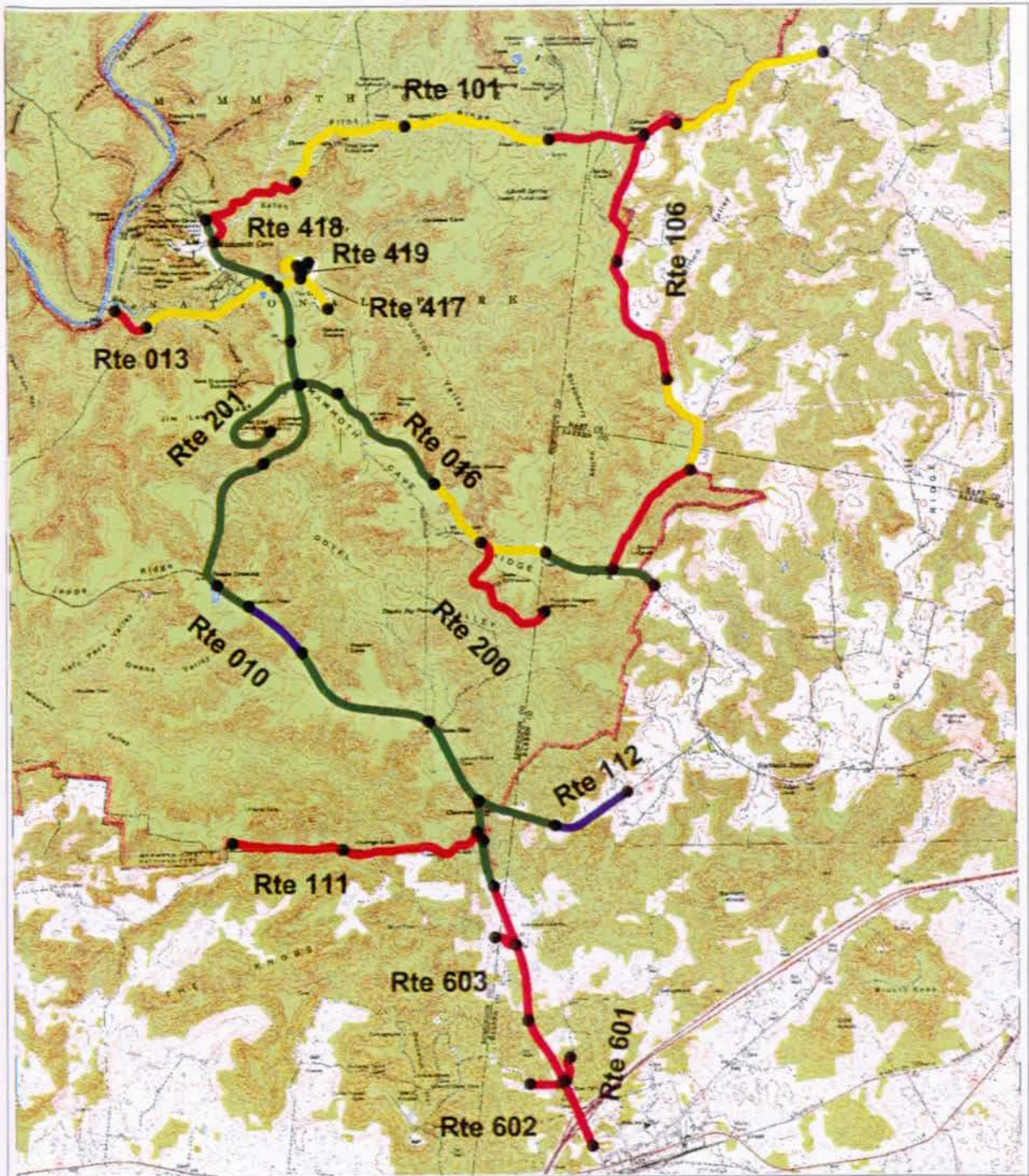


0.2 0 0.2 0.4 Miles



MAMMOTH CAVE NATIONAL PARK ROUTE CONDITION PCR/DCR - by section

FUNCTIONAL CLASSIFICATION I, II, V, VII, VIII

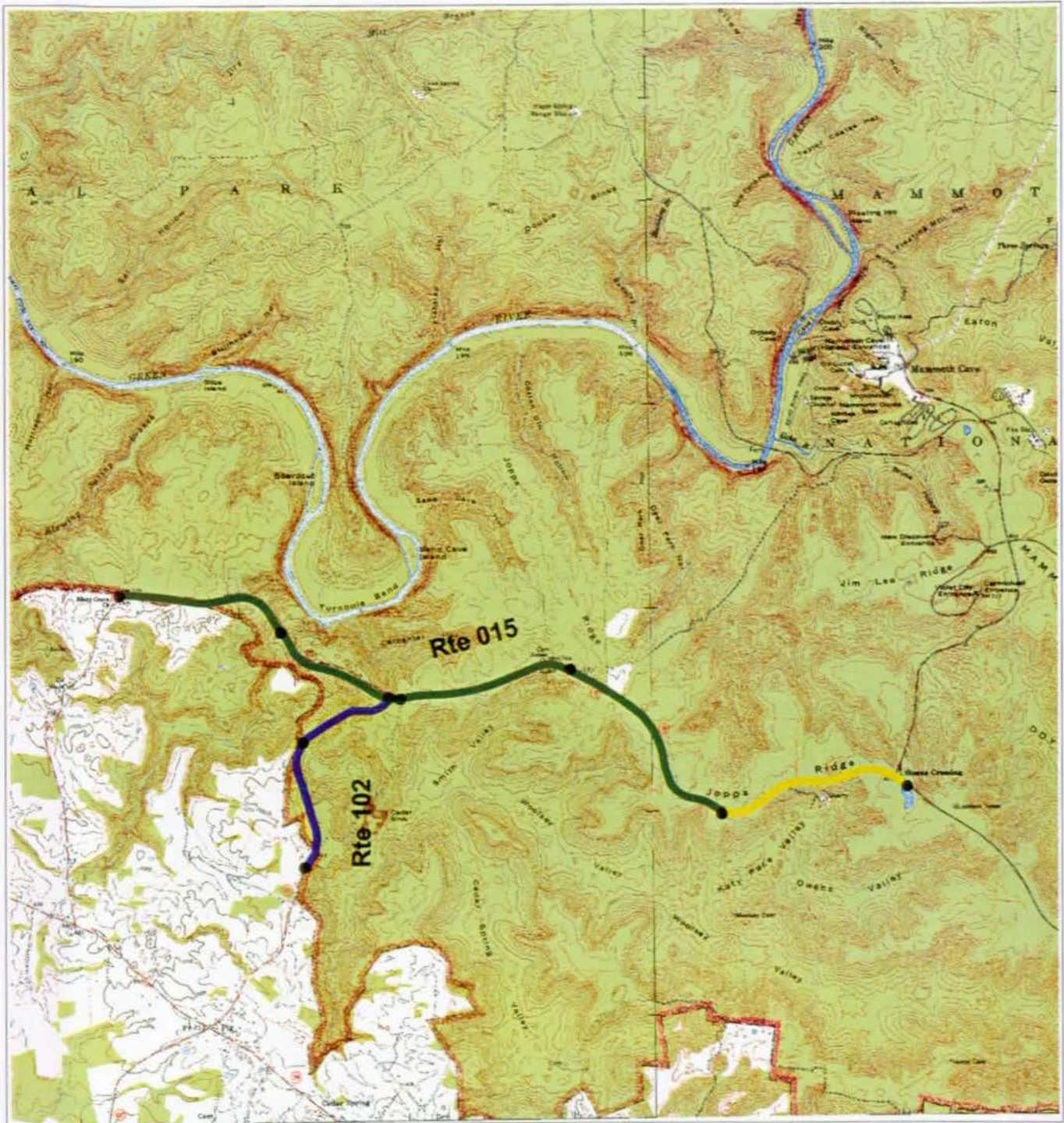


PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

MAMMOTH CAVE NATIONAL PARK ROUTE CONDITION PCR/DCR - by section

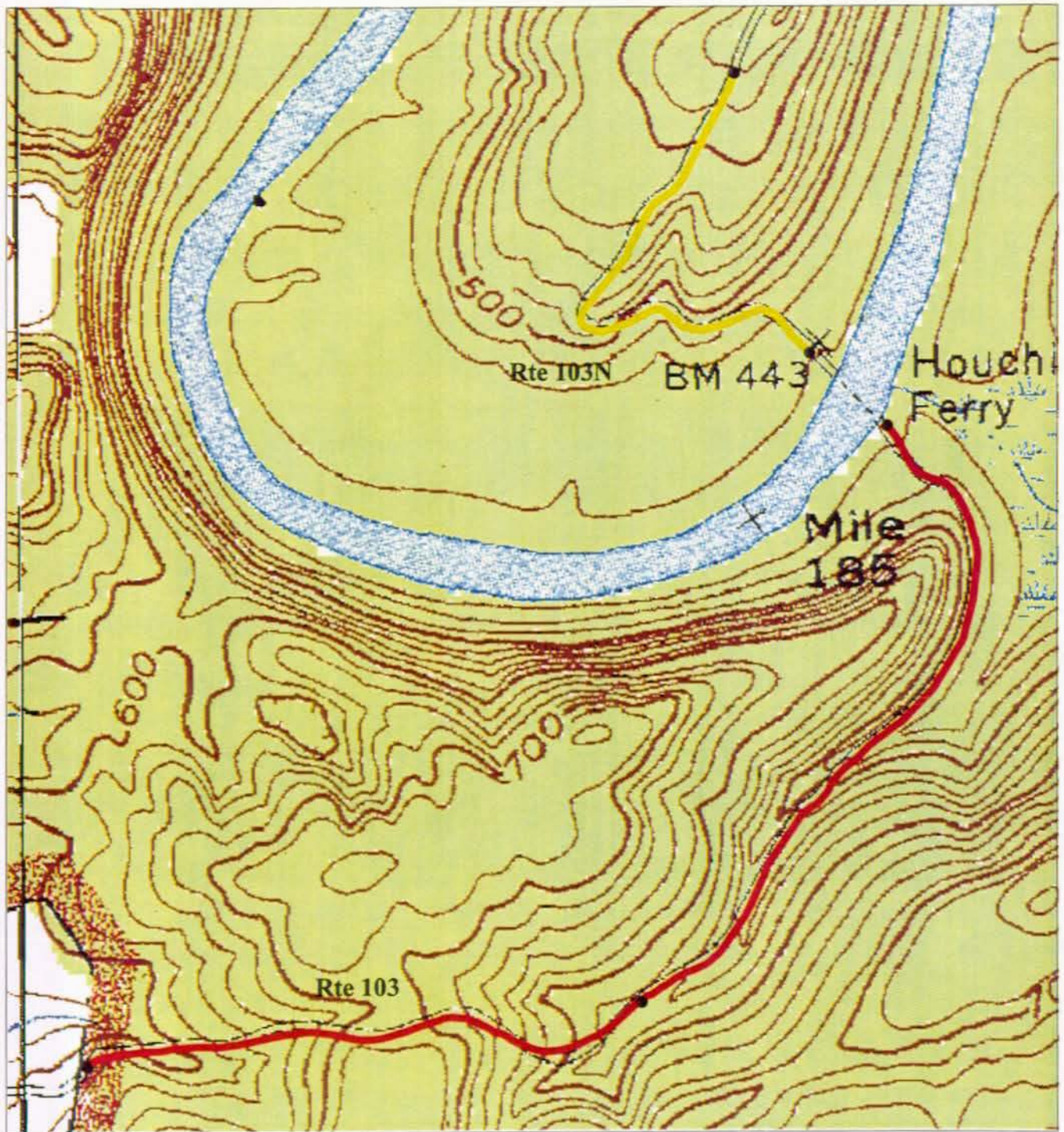
FUNCTIONAL CLASSIFICATION I, II, V, VII, VIII



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

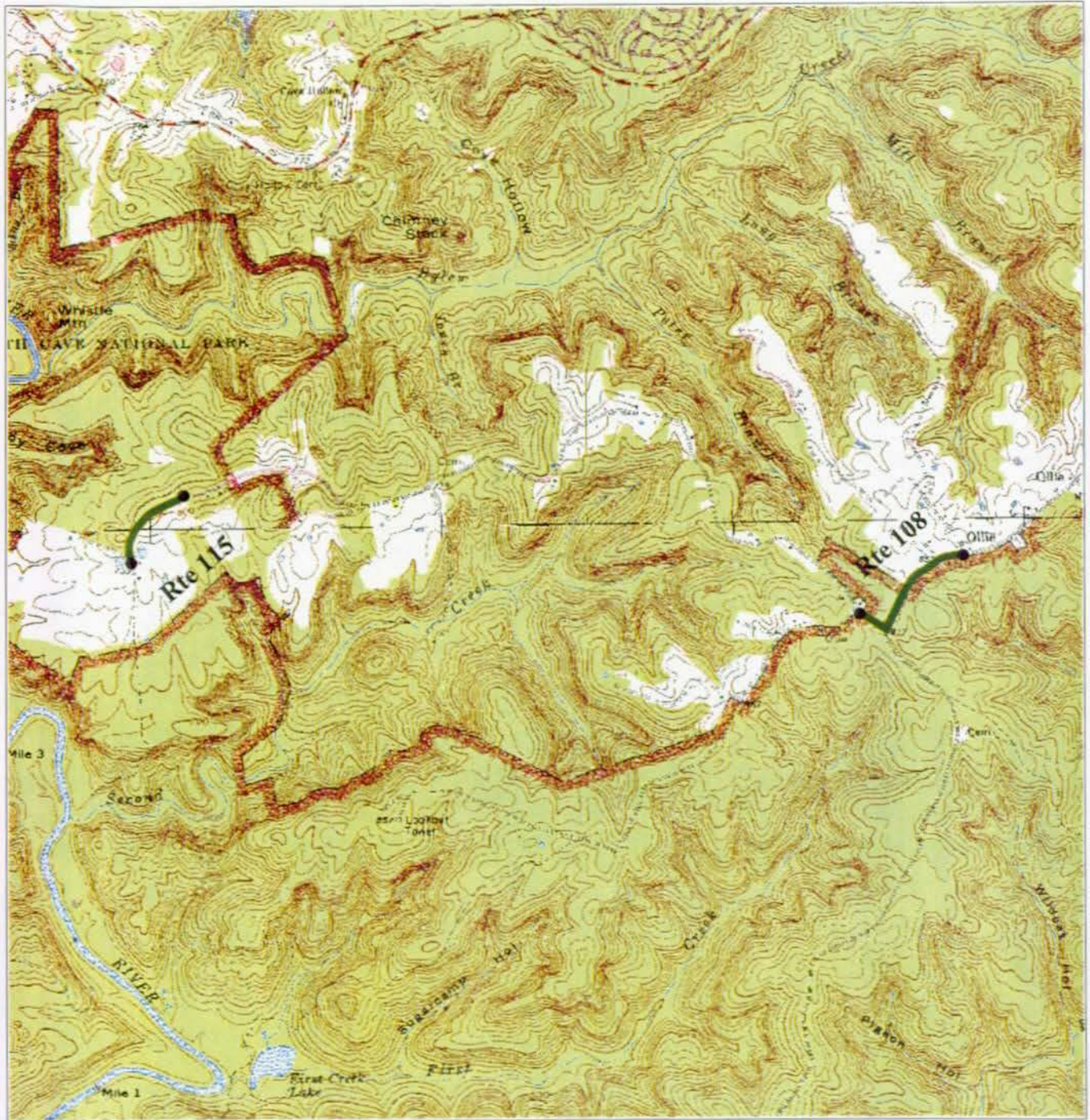
MAMMOTH CAVE NATIONAL PARK
 ROUTE CONDITION
 PCR/DCR - by section
 FUNCTIONAL CLASSIFICATION I, II, V, VII, VIII



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

MAMMOTH CAVE NATIONAL PARK
ROUTE CONDITION
PCR/DCR - by section
FUNCTIONAL CLASSIFICATION I, II, V, VII, VIII



PCR Excellent



Good



Fair



Poor



DCR Poor



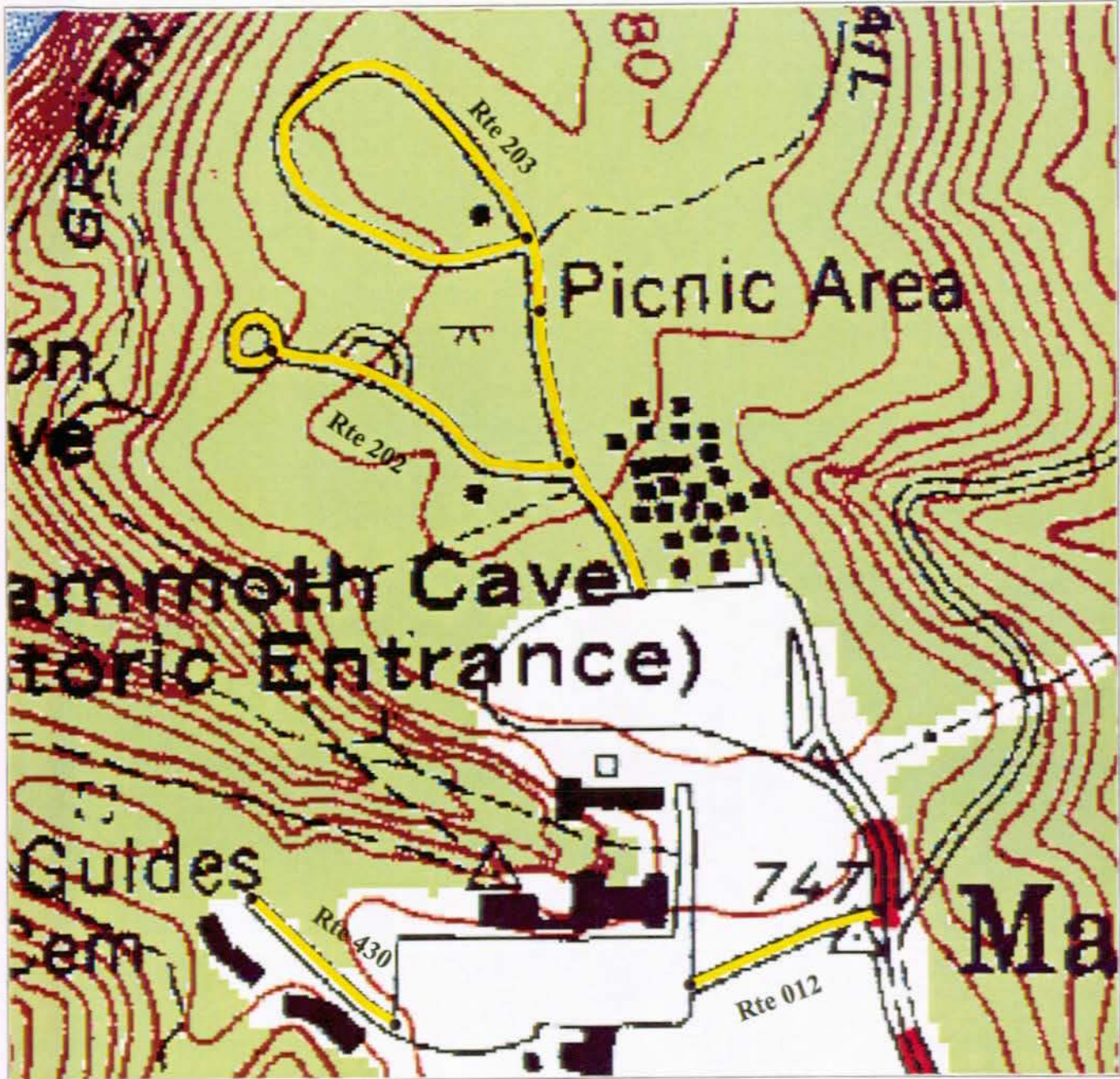
* If the PCR rating is not available for a section, the SCR rating will be displayed

FUNCTIONAL CLASSIFICATION I, II, V, VII, VIII



MAMMOTH CAVE NATIONAL PARK
ROUTE CONDITION
PCR/DCR - by section

FUNCTIONAL CLASSIFICATION I, II, V, VII, VIII



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

MAMMOTH CAVE NATIONAL PARK - MACA - 5530

ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes, Distress Surveyed

Blue = All Paved Parking Areas

Grey = Paved Routes, Data Manually Collected

Green = All Unpaved Parking Areas

Red Denotes Approximate Mileage

Yellow = Unpaved Routes, No Survey

900P = PUBLIC PARKING ROUTE 900

900N = NON-PUBLIC PARKING ROUTE 900

RTE #	ROUTE NAME	RTE MILES	ROUTE DESCRIPTION	PAVED MILES	UNPAVED MILES	LANES	FUNC. CLASS
010	SOUTH ENTRANCE ROAD	7.91	HWY 255 AT I-65 TO RTE 901a	7.91		2	I
012	HOTEL ENTRANCE RD	0.35	RTE 010 TO RTE 908	0.35		2	I
013	GREEN RIVER FERRY RD (STOCKHOLM)	1.28	RTE 010 TO FERRY	1.28		2	I
014	NORTH ENTRANCE ROAD	4.20	NORTH BOUNDARY TO FERRY	4.20		2	I
015	WEST ENTRANCE ROAD	5.02	WESTERN PARK BOUNDARY TO RTE 010	5.02		2	I
016	EAST ENTRANCE ROAD	3.02	HWY 255 EAST BOUNDARY TO RTE 010	3.02		2	I
101	FLINT RIDGE ROAD	4.81	RTE 010 TO BOUNDARY	4.81		2	II
102	CEDAR SINK ROAD	1.23	RTE 015 TO BOUNDARY	1.23		2	II
103n	HOUCHINS FERRY RD NORTH	0.40	FERRY NORTH TO END OF PAVEMENT	0.40		2	II
103n	HOUCHINS FERRY RD NORTH	4.98	FERRY NORTH TO END		4.98	2	II
103	HOUCHINS FERRY RD SOUTH	1.04	BROWNSVILLE BOUNDARY NORTH TO FERRY	1.04		2	II
104	GREAT ONYX CAVE RD	2.09	RTE 101 TO CAVE (GATED)		2.09	1	II
105	CRYSTAL CAVE RD.	1.36	RTE 101 TO CAVE (GATED)		1.36	1	II
106	PARK RIDGE ROAD	3.62	RTE 016 TO RTE 101	3.62		2	II
107	LITTLE JORDAN RD	4.70	N BNDRY ADJACENT TO WILKINS CEMETARY		4.70	2	III
108	OLLIE RIDGE RD	0.46	RTE 103 TO BOUNDARY	0.46		2	II
109	GOOD SPRING CHURCH RD	0.50	RTE 013 TO CHURCH		0.50	1	II
110	MAPLE SPRINGS LOOP	2.01	RTE 014 TO RTE 014	2.01		1	III
111	CEDAR HILL CHURCH RD.	1.80	RTE 010 TO BOUNDARY	1.80		1	II
112	SOUTHEAST ENTRANCE RD.	1.23	PARK BOUNDARY AT HWY 70 TO RTE 010	1.23		2	II
113	JOPPA RIDGE RD	2.16	RTE 013 TO RTE 015		2.16	1	III
114	DENNISON FERRY RD.	1.54	RTE 101 TO FERRY		1.54	1	II
115	OLLIE RIDGE RD (GREAT ONYX JOB CORP CENTER)	0.45	BOUNDARY TO CENTER ENTRANCE GATE	0.45		2	III
200	FROZEN NIAGARA ENTRANCE RD.	1.11	RTE 016 TO END OF LOOP	1.11		2	II
201	CARMICHAEL ENTRANCE RD.	0.89	RTE 010 TO CAVE ENTRANCE	0.89		2	II
202	PICNIC GROUNDS RD.	0.45	RTE 900 TO END OF LOOP	0.45		2	III
203	PICNIC SHELTER RD.	0.20	RTE 202 TO END OF LOOP	0.20		2	III
215	MAPLE SPRINGS GROUP CAMPGROUND RD.	0.10	RTE 110 TO END		0.10	1	III
218	OLLIE CHURCH RD	0.11	RTE 108 TO END		0.11	2	III
400	CEDAR SINK SERVICE RD.	1.32	RTE 015 TO END		1.32	1	VI
403	BRANSFORD SPRING RD.	0.17	RTE 104 TO END		0.17	1	V
404	LICK LOG RD.	0.29	RTE 114 TO END		0.29	1	VI
406	ROCK QUARRY RD.	0.21	RTE 015 TO QUARRY		0.21	1	VI
407	HISTORIC ENTRANCE RD.	0.09	RTE 908 HOTEL SERVICE RD. TO ENTRANCE	0.09		2	III
408	HOTEL/PARK HDQTRS SERVICES RD	0.05	RTE 908 TO END	0.05		2	V
409	FIRST CREEK TOWER RD.	3.20	RTE 108 TO END		3.20	1	III
410	BROOKS KNOB TOWER RD.	0.50	RTE 411 TO END		0.50	1	III

MAMMOTH CAVE NATIONAL PARK - MACA - 5530
ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes, Distress Surveyed

Blue = All Paved Parking Areas

Grey = Paved Routes, Data Manually Collected

Green = All Unpaved Parking Areas

Red Denotes Approximate Mileage

Yellow = Unpaved Routes, No Survey

900P = PUBLIC PARKING ROUTE 900

900N = NON-PUBLIC PARKING ROUTE 900

RTE #	ROUTE NAME	RTE MILES	ROUTE DESCRIPTION	PAVED MILES	UNPAVED MILES	LANES	FUNC. CLASS
411	BUFFALO FERRY RD.	0.78	NORTH OF RTE 015 TO GREEN RIVER		0.78	1	III
412	BROOKS CEMETARY RD.	0.36	RTE 411 TO CEMETARY		0.36	1	III
416	NEW DISCOVERY RD.	0.54	RTE 210 TO END		0.54	1	III
417	PARK MAINTENANCE RD.	0.46	RTE 010 TO END	0.46		2	V
418	RESIDENCE LOOP RD.	0.33	RTE 417 TO END OF LOOP	0.33		2	V
419	RESIDENCE RD.	0.11	RTE 418 TO RESIDENCE	0.11		1	V
420	ELEVATOR SHAFT RD	0.06	RTE 016 TO END	0.06		2	V
422	COLLINS SPRINGS RO.	0.40	RTE 105 TO END		0.40	1	V
423	ADWELL SPRINGS RD	0.40	RTE 010 TO END		0.40	1	V
424	LOCUST GROVE CEMETARY RD.	0.05	RTE 015 TO CEMETARY		0.05	1	III
425	MAMMOTH CAVE CHURCH RD.	0.04	RTE 010 TO END		0.04	1	III
426	LITTLE HOPE CHURCH RD.	0.06	RTE 016 TO END		0.06	1	III
427	JOPPA CHURCH CEMETARY ROAD	0.09	RTE 111 TO END		0.09	1	III
427	WILKINS CEMETARY RD.	0.00	RTE 107 TO END		0.00	1	III
428	DOYLE VALLEY SERVICE RD.	0.00	RTE 015 TO BOUNDARY MARKER		0.00	1	III
430	MOTEL RD	0.09	SW END OF RTE 908 TO END	0.09		2	III
500	FROZEN NIAGARA NEW ENTRANCE LOOP	0.16	RTE 200 TO RTE 200	0.16		1	V
501	VISITOR CENTER CAMPGROUND LOOP A	0.30	RTE 504 TO END OF LOOP	0.30		1	III
503	VISITOR CENTER CAMPGROUND LOOP B	0.50	RTE 504 TO END OF LOOP	0.50		1	III
504	VISITOR CENTER CAMPGROUND LOOP C	0.59	RTE 010 TO END OF LOOP	0.59		1	III
506	CARMICHAEL ENTRANCE LOOP RD	0.11	RTE 201 TO END OF LOOP	0.11		1	III
507	FROZEN NIAGARA ENTRANCE LOOP	0.09	RTE 200 TO END OF LOOP	0.09		1	III
601	DOYLE RD.	0.19	RTE 010 TO BOUNDARY MARKER	0.19		2	VII
602	ZION CEMETARY RD.	0.20	RTE 010 TO BOUNDARY MARKER	0.20		2	VII
603	SHORT CAVE RD	0.15	RTE 010 TO BOUNDARY MARKER	0.15		2	VII
900	RURAL KENTUCKY VIEW		ADJACENT TO RTE 010				
901a	MACA MAIN VISITOR CENTER PARKING		END OF RTE 010				
901b	HOTEL SERVICES AND PARK HQ PARKING		ADJACENT TO RTE 408				
902a	MACA MAINTENANCE PKG B		END OF RTE 417				
902b	MACA MAINTENANCE PKG A		ADJACENT TO RTE 417				
903	RANGER STATION PKG		RTE 417 TO PARKING				
904	HOUCHINS FERRY RD SOUTH PKG		ADJACENT TO RTE 103				
905	RESIDENCE PKG		ADJACENT TO RTE 418				
906a	MOTEL PKG A		ADJACENT TO RTE 430				
906b	MOTEL PARKING B		END OF RTE 430				
907a	PICNIC SHELTER PKG A		ADJACENT TO RTE 203				
907b	PICNIC SHELTER PKG B		ADJACENT TO RTE 203				

MAMMOTH CAVE NATIONAL PARK - MACA - 5530

ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes, Distress Surveyed

Blue = All Paved Parking Areas

Grey = Paved Routes, Data Manually Collected

Green = All Unpaved Parking Areas

Red Denotes Approximate Mileage

Yellow = Unpaved Routes, No Survey

900P = PUBLIC PARKING ROUTE 900

900N = NON-PUBLIC PARKING ROUTE 900

RTE #	ROUTE NAME	RTE MILES	ROUTE DESCRIPTION	PAVED MILES	UNPAVED MILES	LANES	FUNC. CLASS
908	HOTEL PKG		END OF RTE 012				
909	SLOANS CROSSING PICNIC/POND PKG		ADJACENT TO RTE 010				
911	SOUTH ENTRANCE SIGN PKG		ADJACENT TO RTE 010				
912	TURNHOLE BEND NATURE TRAIL PKG		ADJACENT TO RTE 015				
913	SAND CAVE PKG		ADJACENT TO RTE 016				
914	NORTH FERRY PKG		ADJACENT TO RTE 014				
915	GREEN RIVER FERRY PKG		ADJACENT TO RTE 013				
916	LINCOLN LOOP PKG		ADJACENT TO RTE 108				
917	MAPLE SPRINGS LOOP CG PKG		ADJACENT TO RTE 110				
918	MAPLE SPRINGS TRAILHEAD PKG.		ADJACENT TO RTE 110		0.00		
919	CEDAR SINK TRAILHEAD PKG		ADJACENT TO RTE 102				
920	WOODLAND COTTAGES PKG		ADJACENT TO RTE 100				
921	DIAMOND CAVERNS PKG.		ADJACENT TO RTE 010				
922	SERVICES PKG (POST OFFICE/DUMP STATION/GAS)		ADJACENT TO RTE 010 AND RTE 504				
923	ELEVATOR PKG		END OF RTE 420				
931	PICNIC GROUNDS PARKING		ADJACENT TO RTE 202				
933	DENNISON FERRY CAMPGROUND PKG.		ADJACENT TO RTE 114		0.00		
934	EAST ENTRANCE ROAD CEMETARY PKG		ADJACENT TO RTE 016		0.00		
935	FIRST CREEK PKG		ADJACENT TO RTE 108		0.00		
936	FLINT RIDGE ROAD CEMETARY PKG		ADJACENT TO RTE 101		0.00		
938	TEMPLE HILL HOCHINS FERRY RD. PKG		ADJACENT TO RTE 103		0.00		

MAMMOTH CAVE NATIONAL PARK - MACA - 5530

ROUTE IDENTIFICATION LIST (ALPHABETIC)

Shading Color Key: White = Paved Routes, Distress Surveyed

Blue = All Paved Parking Areas

Grey = Paved Routes, Data Manually Collected

Green = All Unpaved Parking Areas

Red Denotes Approximate Mileage

Yellow = Unpaved Routes, No Survey

900P = PUBLIC PARKING ROUTE 900

900N = NON-PUBLIC PARKING ROUTE 900

RTE #	ROUTE NAME	RTE MILES	ROUTE DESCRIPTION	PAVED MILES	UNPAVED MILES	LANES	FUNC. CLASS
423	ADWELL SPRINGS RD	0.40	RTE 010 TO END		0.40	1	V
403	BRANSFORD SPRING RD.	0.17	RTE 104 TO END		0.17	1	V
412	BROOKS CEMETARY RD.	0.36	RTE 411 TO CEMETARY		0.36	1	III
410	BROOKS KNOB TOWER RD.	0.50	RTE 411 TO END		0.50	1	III
411	BUFFALO FERRY RD.	0.78	NORTH OF RTE 015 TO GREEN RIVER		0.78	1	III
506	CARMICHAEL ENTRANCE LOOP RD	0.11	RTE 201 TO END OF LOOP	0.11		1	III
201	CARMICHAEL ENTRANCE RD.	0.89	RTE 010 TO CAVE ENTRANCE	0.89		2	II
111	CEDAR HILL CHURCH RD.	1.80	RTE 010 TO BOUNDARY	1.80		1	II
102	CEDAR SINK ROAD	1.23	RTE 015 TO BOUNDARY	1.23		2	II
400	CEDAR SINK SERVICE RD.	1.32	RTE 015 TO END		1.32	1	VI
919	CEDAR SINK TRAILHEAD PKG		ADJACENT TO RTE 102				
422	COLLINS SPRINGS RO.	0.40	RTE 105 TO END		0.40	1	V
105	CRYSTAL CAVE RD.	1.36	RTE 101 TO CAVE (GATED)		1.36	1	II
933	DENNISON FERRY CAMPGROUND PKG.		ADJACENT TO RTE 114		0.00		
114	DENNISON FERRY RD.	1.54	RTE 101 TO FERRY		1.54	1	II
921	DIAMOND CAVERNS PKG.		ADJACENT TO RTE 010				
601	DOYLE RD.	0.19	RTE 010 TO BOUNDARY MARKER	0.19		2	VII
428	DOYLE VALLEY SERVICE RD.	0.00	RTE 015 TO BOUNDARY MARKER		0.00	1	III
16	EAST ENTRANCE ROAD	3.02	HWY 255 EAST BOUNDARY TO RTE 010	3.02		2	I
934	EAST ENTRANCE ROAD CEMETARY PKG		ADJACENT TO RTE 016		0.00		
923	ELEVATOR PKG		END OF RTE 420				
420	ELEVATOR SHAFT RD	0.06	RTE 016 TO END	0.06		2	V
935	FIRST CREEK PKG		ADJACENT TO RTE 108		0.00		
409	FIRST CREEK TOWER RD.	3.20	RTE 108 TO END		3.20	1	III
101	FLINT RIDGE ROAD	4.81	RTE 010 TO BOUNDARY	4.81		2	II
936	FLINT RIDGE ROAD CEMETARY PKG		ADJACENT TO RTE 101		0.00		
507	FROZEN NIAGARA ENTRANCE LOOP	0.09	RTE 200 TO END OF LOOP	0.09		1	III
200	FROZEN NIAGARA ENTRANCE RD.	1.11	RTE 016 TO END OF LOOP	1.11		2	II
500	FROZEN NIAGARA NEW ENTRANCE LOOP	0.16	RTE 200 TO RTE 200	0.16		1	V
109	GOOD SPRING CHURCH RD	0.50	RTE 013 TO CHURCH		0.50	1	II
104	GREAT ONYX CAVE RD	2.09	RTE 101 TO CAVE (GATED)		2.09	1	II
915	GREEN RIVER FERRY PKG		ADJACENT TO RTE 013				
013	GREEN RIVER FERRY RD (STOCKHOLM)	1.28	RTE 010 TO FERRY	1.28		2	I
407	HISTORIC ENTRANCE RD.	0.09	RTE 908 HOTEL SERVICE RD. TO ENTRANCE	0.09		2	III

MAMMOTH CAVE NATIONAL PARK - MACA - 5530

ROUTE IDENTIFICATION LIST (ALPHABETIC)

Shading Color Key: White = Paved Routes, Distress Surveyed

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Grey = Paved Routes, Data Manually Collected

Green = All Unpaved Parking Areas

Red Denotes Approximate Mileage

Yellow = Unpaved Routes, No Survey

900P = PUBLIC PARKING ROUTE 900

900N = NON-PUBLIC PARKING ROUTE 900

RTE #	ROUTE NAME	RTE MILES	ROUTE DESCRIPTION	PAVED MILES	UNPAVED MILES	LANES	FUNC. CLASS
012	HOTEL ENTRANCE RD	0.35	RTE 010 TO RTE 908	0.35		2	I
908	HOTEL PKG		END OF RTE 012				
901b	HOTEL SERVICES AND PARK HQ PARKING		ADJACENT TO RTE 408				
408	HOTEL/PARK HDQTRS SERVICES RD	0.05	RTE 908 TO END	0.05		2	V
103n	HOUCHINS FERRY RD NORTH	0.40	FERRY NORTH TO END OF PAVEMENT	0.40		2	II
103n	HOUCHINS FERRY RD NORTH	4.98	FERRY NORTH TO END		4.98	2	II
103	HOUCHINS FERRY RD SOUTH	1.04	BROWNSVILLE BOUNDARY NORTH TO FERRY	1.04		2	II
904	HOUCHINS FERRY RD SOUTH PKG		ADJACENT TO RTE 103				
427	JOPPA CHURCH CEMETARY ROAD	0.09	RTE 111 TO END		0.09	1	III
113	JOPPA RIDGE RD	2.16	RTE 013 TO RTE 015		2.16	1	III
404	LICK LOG RD.	0.29	RTE 114 TO END		0.29	1	VI
916	LINCOLN LOOP PKG		ADJACENT TO RTE 108				
426	LITTLE HOPE CHURCH RD.	0.06	RTE 016 TO END		0.06	1	III
107	LITTLE JORDAN RD	4.70	N BNDRY ADJACENT TO WILKINS CEMETARY		4.70	2	III
424	LOCUST GROVE CEMETARY RD.	0.05	RTE 015 TO CEMETARY		0.05	1	III
901a	MACA MAIN VISITOR CENTER PARKING		END OF RTE 010				
902b	MACA MAINTENANCE PKG A		ADJACENT TO RTE 417				
902a	MACA MAINTENANCE PKG B		END OF RTE 417				
425	MAMMOTH CAVE CHURCH RD.	0.04	RTE 010 TO END		0.04	1	III
215	MAPLE SPRINGS GROUP CAMPGROUND RD.	0.10	RTE 110 TO END		0.10	1	III
110	MAPLE SPRINGS LOOP	2.01	RTE 014 TO RTE 014	2.01		1	III
917	MAPLE SPRINGS LOOP CG PKG		ADJACENT TO RTE 110				
918	MAPLE SPRINGS TRAILHEAD PKG.		ADJACENT TO RTE 110		0.00		
906b	MOTEL PARKING B		END OF RTE 430				
906a	MOTEL PKG A		ADJACENT TO RTE 430				
430	MOTEL RD	0.09	SW END OF RTE 908 TO END	0.09		2	III
416	NEW DISCOVERY RD.	0.54	RTE 210 TO END		0.54	1	III
014	NORTH ENTRANCE ROAD	4.20	NORTH BOUNDARY TO FERRY	4.20		2	I
914	NORTH FERRY PKG		ADJACENT TO RTE 014				
115	OLLIE RIDGE RD (GREAT ONYX JOB CORP CENTE	0.45	BOUNDARY TO CENTER ENTRANCE GATE	0.45		2	III
218	OLLIE CHURCH RD	0.11	RTE 108 TO END		0.11	2	III
108	OLLIE RIDGE RD	0.46	RTE 103 TO BOUNDARY	0.46		2	II
417	PARK MAINTENANCE RD.	0.46	RTE 010 TO END	0.46		2	V
106	PARK RIDGE ROAD	3.62	RTE 016 TO RTE 101	3.62		2	II

MAMMOTH CAVE NATIONAL PARK - MACA - 5530

ROUTE IDENTIFICATION LIST (ALPHABETIC)

Shading Color Key: White = Paved Routes, Distress Surveyed

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Grey = Paved Routes, Data Manually Collected

Green = All Unpaved Parking Areas

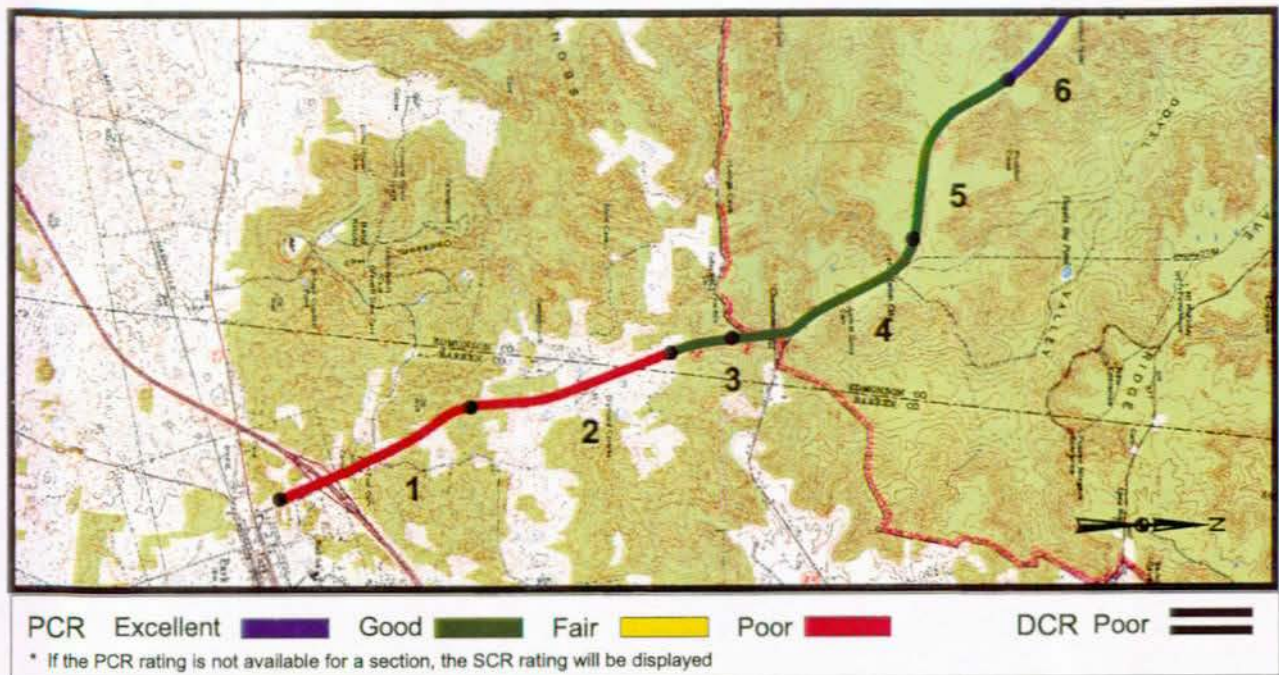
Red Denotes Approximate Mileage

Yellow = Unpaved Routes, No Survey

900P = PUBLIC PARKING ROUTE 900

900N = NON-PUBLIC PARKING ROUTE 900

RTE #	ROUTE NAME	RTE MILES	ROUTE DESCRIPTION	PAVED MILES	UNPAVED MILES	LANES	FUNC. CLASS
931	PICNIC GROUNDS PARKING		ADJACENT TO RTE 202				
202	PICNIC GROUNDS RD.	0.45	RTE 900 TO END OF LOOP	0.45		2	III
907a	PICNIC SHELTER PKG A		ADJACENT TO RTE 203				
907b	PICNIC SHELTER PKG B		ADJACENT TO RTE 203				
203	PICNIC SHELTER RD.	0.20	RTE 202 TO END OF LOOP	0.20		2	III
903	RANGER STATION PKG		RTE 417 TO PARKING				
418	RESIDENCE LOOP RD.	0.33	RTE 417 TO END OF LOOP	0.33		2	V
905	RESIDENCE PKG		ADJACENT TO RTE 418				
419	RESIDENCE RD.	0.11	RTE 418 TO RESIDENCE	0.11		1	V
406	ROCK QUARRY RD.	0.21	RTE 015 TO QUARRY		0.21	1	VI
900	RURAL KENTUCKY VIEW		ADJACENT TO RTE 010				
913	SAND CAVE PKG		ADJACENT TO RTE 016				
922	SERVICES PKG (POST OFFICE/DUMP STATION/GAS)		ADJACENT TO RTE 010 AND RTE 504				
603	SHORT CAVE RD	0.15	RTE 010 TO BOUNDARY MARKER	0.15		2	VII
909	SLOANS CROSSING PICNIC/POND PKG		ADJACENT TO RTE 010				
010	SOUTH ENTRANCE ROAD	7.91	HWY 255 AT I-65 TO RTE 901a	7.91		2	I
911	SOUTH ENTRANCE SIGN PKG		ADJACENT TO RTE 010				
112	SOUTHEAST ENTRANCE RD.	1.23	PARK BOUNDARY AT HWY 70 TO RTE 010	1.23		2	II
938	TEMPLE HILL HOUGHINS FERRY RD. PKG		ADJACENT TO RTE 103		0.00		
912	TURNHOLE BEND NATURE TRAIL PKG		ADJACENT TO RTE 015				
501	VISITOR CENTER CAMPGROUND LOOP A	0.30	RTE 504 TO END OF LOOP	0.30		1	III
503	VISITOR CENTER CAMPGROUND LOOP B	0.50	RTE 504 TO END OF LOOP	0.50		1	III
504	VISITOR CENTER CAMPGROUND LOOP C	0.59	RTE 010 TO END OF LOOP	0.59		1	III
015	WEST ENTRANCE ROAD	5.02	WESTERN PARK BOUNDARY TO RTE 010	5.02		2	I
427	WILKINS CEMETARY RD.	0.00	RTE 107 TO END		0.00	1	III
920	WOODLAND COTTAGES PKG		ADJACENT TO RTE 100				
602	ZION CEMETARY RD.	0.20	RTE 010 TO BOUNDARY MARKER	0.20		2	VII



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 010 South Entrance Road

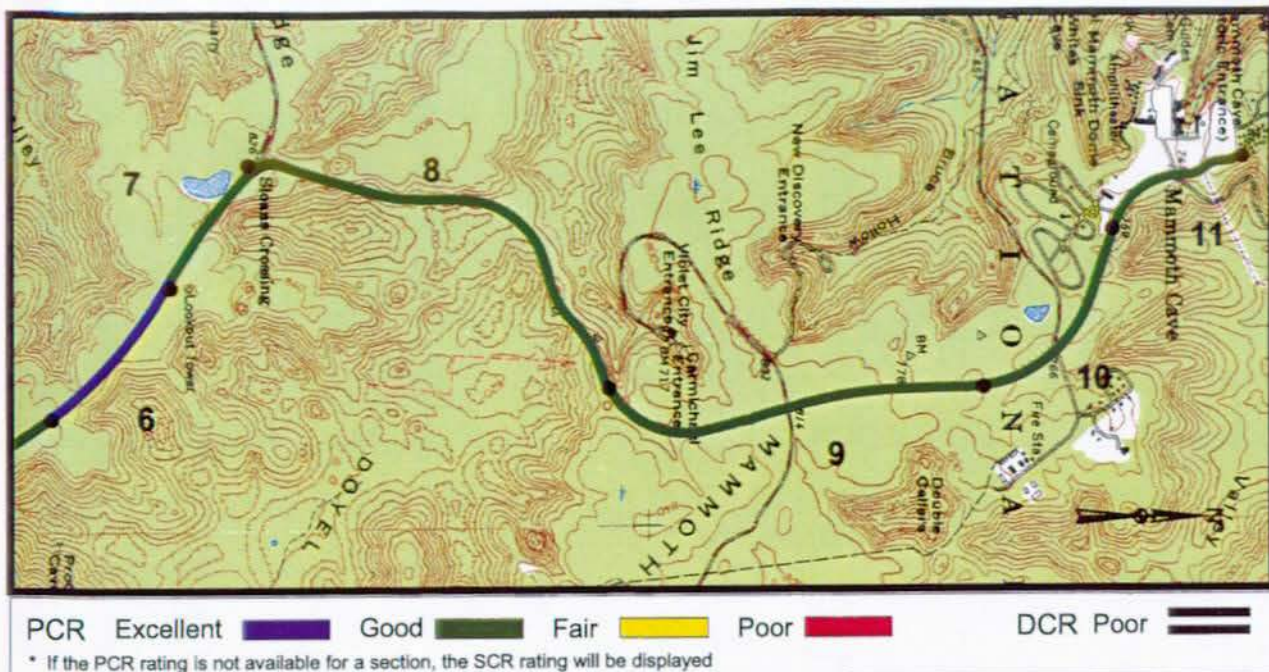
TOTAL LENGTH: 7.91 Miles

Section Number	1	2	3	4	5
Section Length (mi)	1.00	0.98	0.34	0.98	1.00
AADT	449	449	449	449	449
SADT	561	561	561	561	561
ADT Date	1998	1998	1998	1998	1998
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	24	24	24	22
Lane Width (ft)	12	24	12	22	11
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	32	45	91	94	88
Roughness Index	74	77	84	100	100
SCR (Surface Condition Rating)	4	24	96	90	80
Alligator Cracking	100	100	100	100	100
Rutting Index	89	81	92	91	94
Patching Index	100	100	100	100	90
Transverse Cracking	13	76	100	96	96
Longitudinal Cracking	95	57	100	98	97
Shoulder Condition Rating	NA	NA	NA	NA	NA
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

Photo # 01. Sample unit 1 - typical pavement section.
Photo # 02. Sample unit 2 - typical pavement section.

ROUTE: 010 South Entrance Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 010 South Entrance Road

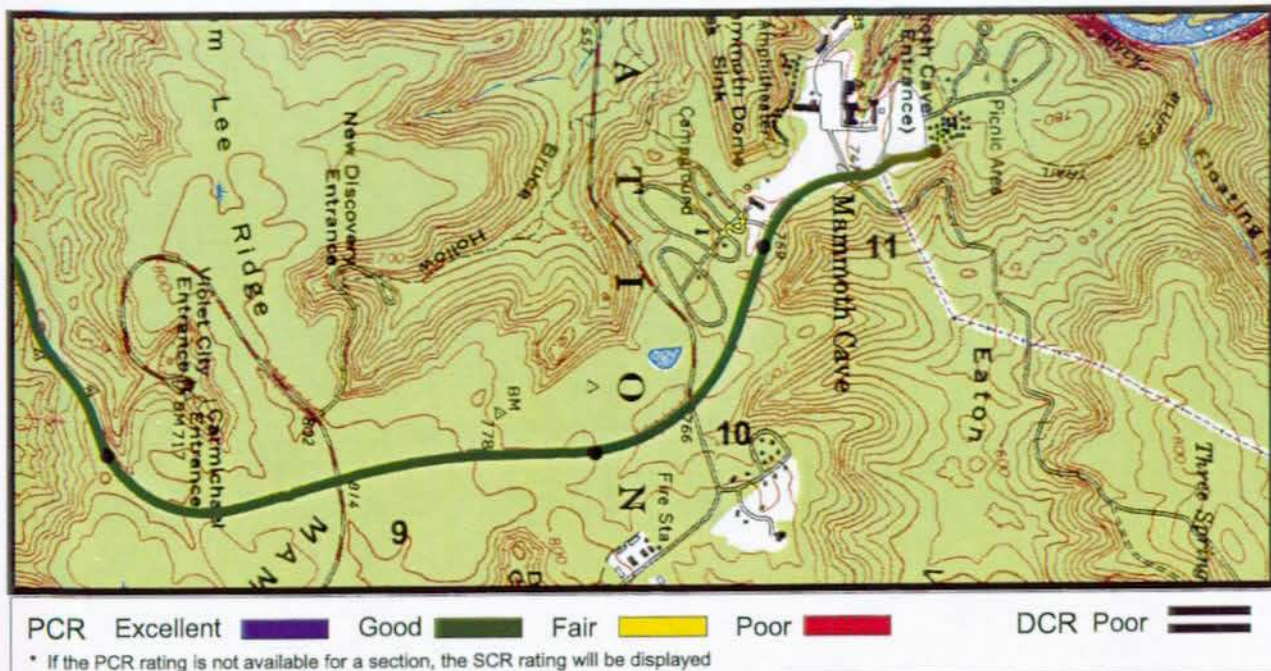
TOTAL LENGTH: 7.91 Miles

Section Number	6	7	8	9	10
Section Length (mi)	0.49	0.22	1.00	1.00	0.49
AADT	449	449	449	449	449
SADT	561	561	561	561	561
ADT Date	1998	1998	1998	1998	1998
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	22	10	22	24
Lane Width (ft)	10	11	10	11	12
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	96	92	85	94	88
Roughness Index	100	86	93	98	94
SCR (Surface Condition Rating)	94	96	79	91	85
Alligator Cracking	100	100	100	100	100
Rutting Index	90	93	94	98	91
Patching Index	100	100	100	100	100
Transverse Cracking	98	100	83	100	100
Longitudinal Cracking	100	100	98	92	89
Shoulder Condition Rating	NA	NA	NA	NA	NA
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

Photo # 03. Sample unit 8 - typical pavement section.
Photo # 04. Sample unit 9 - typical pavement section.
Photo # 05. Sample unit 10 - typical pavement section.

ROUTE: 010 South Entrance Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 010 South Entrance Road

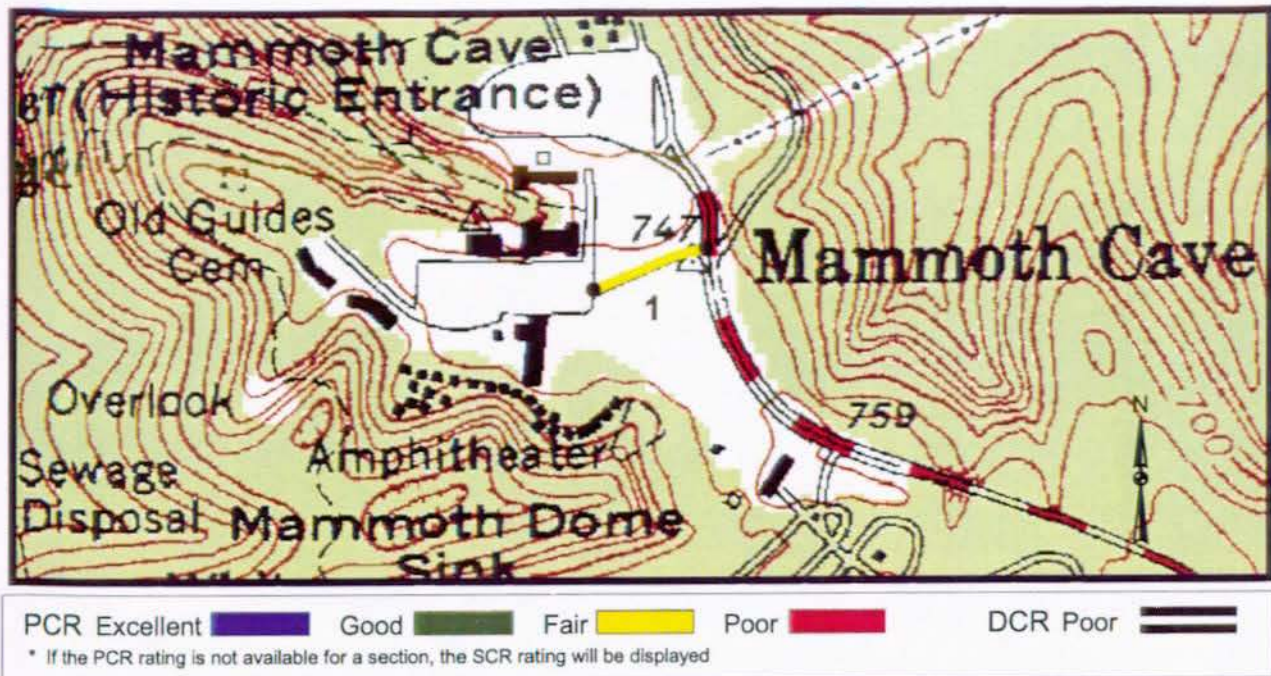
TOTAL LENGTH: 7.91 Miles

Section Number	11				
Section Length (mi)	0.42				
AADT	449				
SADT	561				
ADT Date	1998				
Cross Section Information					
Number of Lanes	4				
Paved Width (ft)	44				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	85				
Roughness Index	76				
SCR (Surface Condition Rating)	92				
Alligator Cracking	100				
Rutting Index	95				
Patching Index	100				
Transverse Cracking	99				
Longitudinal Cracking	95				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 06. Sample unit 11 - typical pavement section.

ROUTE: 010 South Entrance Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 012 Hotel Entrance Road

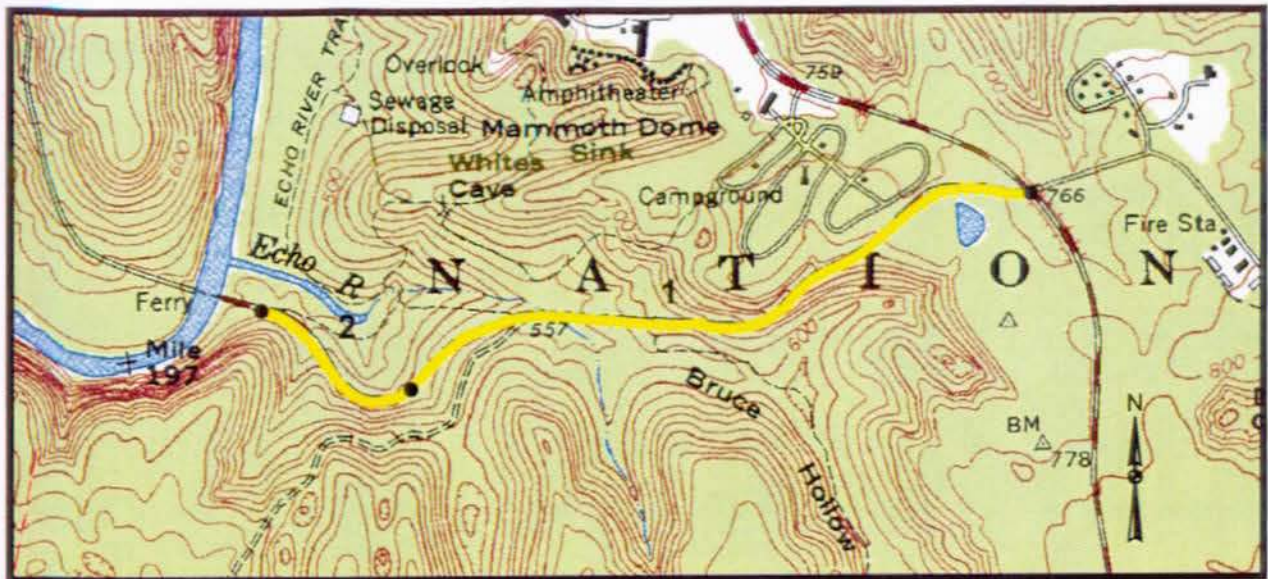
TOTAL LENGTH: 0.35 Miles

Section Number	1				
Section Length (mi)	0.35				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	NA				
Roughness Index	NA				
SCR (Surface Condition Rating)	77				
Alligator Cracking	100				
Rutting Index	94				
Patching Index	100				
Transverse Cracking	94				
Longitudinal Cracking	86				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 07. Sample unit 1 - typical pavement section.

ROUTE: 012 Hotel Entrance Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 013 Green River Ferry Road

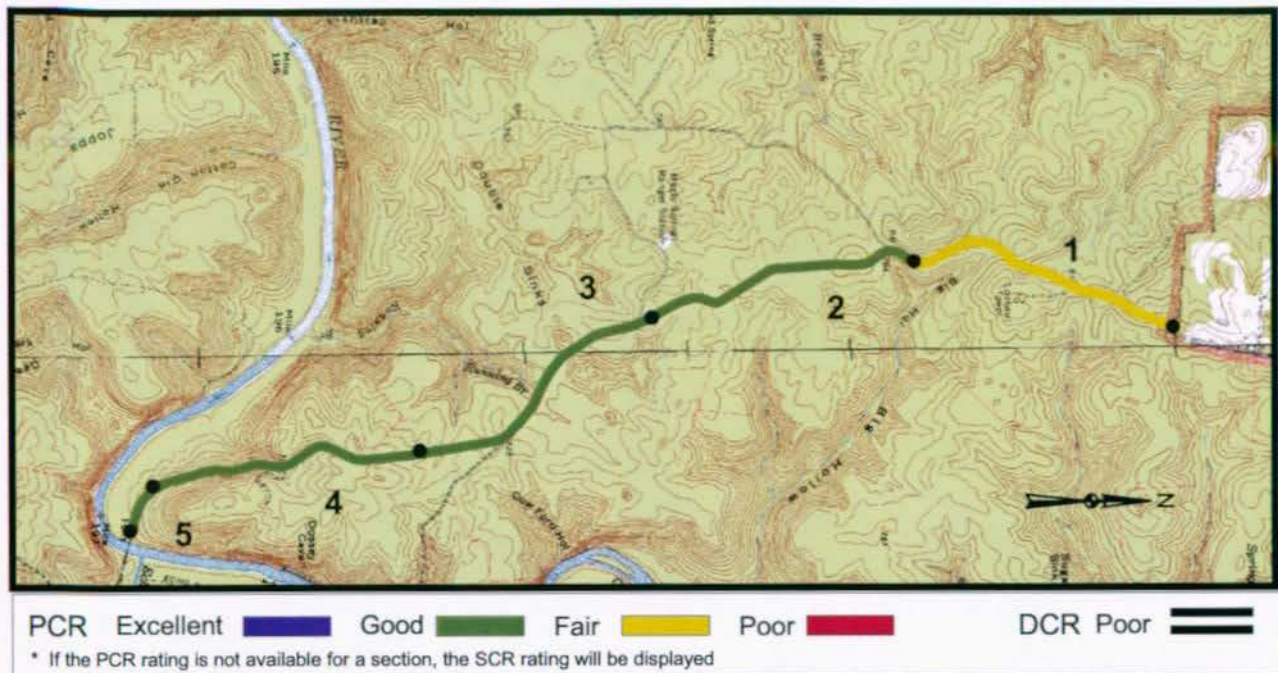
TOTAL LENGTH: 1.28 Miles

Section Number	1	2			
Section Length (mi)	1.00	0.28			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	22	20			
Lane Width (ft)	11	10			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	81	64			
Roughness Index	58	58			
SCR (Surface Condition Rating)	96	69			
Alligator Cracking	100	100			
Rutting Index	92	94			
Patching Index	100	100			
Transverse Cracking	100	100			
Longitudinal Cracking	100	72			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Good	Good			

COMMENTS:

Photo # 08. Sample unit 1 - typical pavement section.
Photo # 09. Sample unit 2 - typical pavement section.
Photo # 10. View of road toward river.

ROUTE: 013 Green River Ferry Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 014 North Entrance Road

TOTAL LENGTH: 4.20 Miles

Section Number	1	2	3	4	5
Section Length (mi)	0.20	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	18	18	18	18	18
Lane Width (ft)	9	9	9	9	9
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	84	93	92	90	91
Roughness Index	64	86	86	80	82
SCR (Surface Condition Rating)	98	97	96	96	97
Alligator Cracking	100	100	100	100	100
Rutting Index	95	95	91	99	97
Patching Index	100	100	100	100	100
Transverse Cracking	100	100	100	100	100
Longitudinal Cracking	100	99	100	97	99
Shoulder Condition Rating	NA	NA	NA	NA	NA
Drainage Condition Rating	Good	Good	Good	Good	Fair

COMMENTS:

Photo # 11. Sample unit 1 - typical pavement section.
Photo # 12. Sample unit 2 - typical pavement section.
Photo # 13. View of road toward ferry.

ROUTE: 014 North Entrance Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 015 West Entrance Road

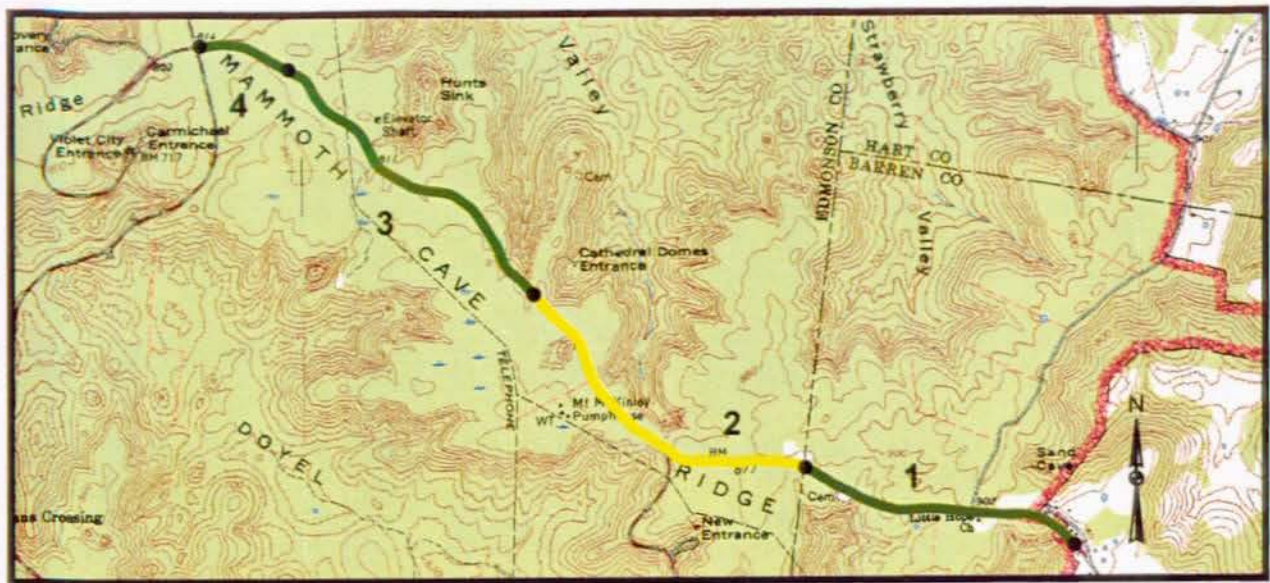
TOTAL LENGTH: 5.02 Miles

Section Number	1	2	3	4	5
Section Length (mi)	1.00	1.00	1.00	1.00	1.02
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	20	20	20	22
Lane Width (ft)	10	10	10	10	11
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	89	86	90	92	78
Roughness Index	85	89	84	91	83
SCR (Surface Condition Rating)	92	84	94	93	75
Alligator Cracking	100	100	100	100	100
Rutting Index	88	91	91	89	88
Patching Index	100	100	100	100	100
Transverse Cracking	97	90	99	98	99
Longitudinal Cracking	100	98	100	100	82
Shoulder Condition Rating	NA	NA	NA	NA	NA
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

Photo # 14. Sample unit 1 - typical pavement section.
Photo # 15. Sample unit 2 - typical pavement section.
Photo # 16. Sample unit 3 - typical pavement section.

ROUTE: 015 West Entrance Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 016 East Entrance Rd

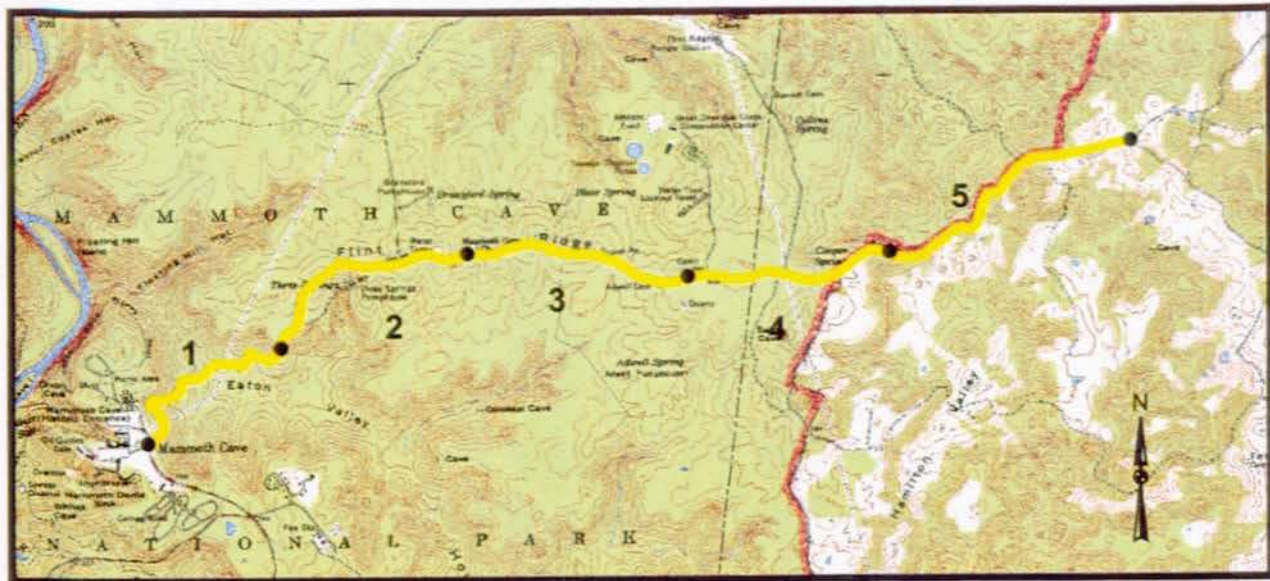
TOTAL LENGTH: 3.02 Miles

Section Number	1	2	3	4	
Section Length (mi)	0.80	1.00	0.96	0.25	
AADT	574	574	574	574	
SADT	732	732	732	732	
ADT Date	1998	1998	1998	1998	
Cross Section Information					
Number of Lanes	2	2	2	2	
Paved Width (ft)	20	22	24	20	
Lane Width (ft)	9	9	11	10	
Shoulder Width (ft)	1	2	1	0	
Roadway Condition Information					
PCR (Pavement Condition Rating)	86	84	91	91	
Roughness Index	75	83	88	100	
SCR (Surface Condition Rating)	93	84	92	85	
Alligator Cracking	100	100	100	100	
Rutting Index	91	95	100	92	
Patching Index	100	100	100	100	
Transverse Cracking	100	90	97	100	
Longitudinal Cracking	97	97	95	89	
Shoulder Condition Rating	Good	Good	Good	NA	
Drainage Condition Rating	Good	Good	Good	Good	

COMMENTS:

Photo # 17. Pavement at MP 0.3.
Photo # 18. Pavement at MP 1.1.

ROUTE: 016 East Entrance Rd



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 101 Flint Ridge Rd.

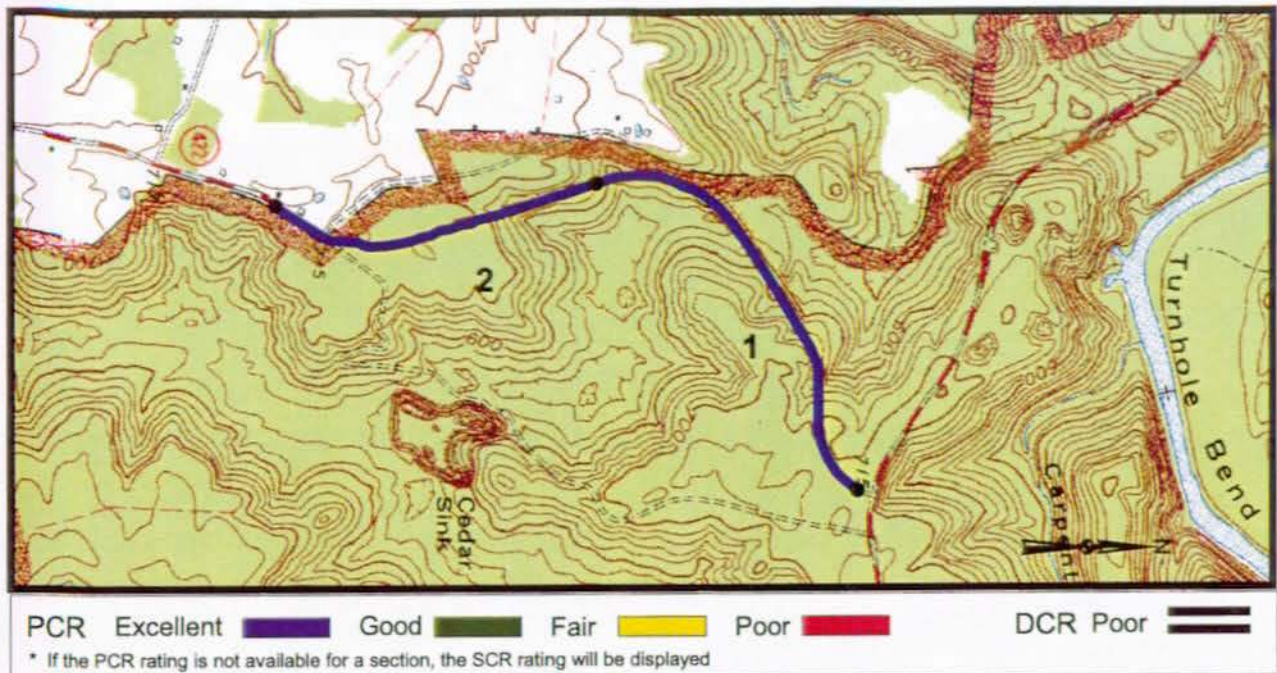
TOTAL LENGTH: 4.81 Miles

Section Number	1	2	3	4	5
Section Length (mi)	0.94	1.00	1.00	0.95	0.92
AADT	574	NA	NA	NA	NA
SADT	732	NA	NA	NA	NA
ADT Date	1998	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	15	14	18	18	18
Lane Width (ft)	6	7	9	9	9
Shoulder Width (ft)	2	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	67	75	80	63	80
Roughness Index	28	44	77	71	54
SCR (Surface Condition Rating)	93	96	82	58	97
Alligator Cracking	100	100	91	99	100
Rutting Index	87	90	97	93	98
Patching Index	99	100	100	100	100
Transverse Cracking	100	100	99	99	100
Longitudinal Cracking	100	100	94	63	98
Shoulder Condition Rating	Fair	NA	NA	NA	NA
Drainage Condition Rating	Good	Good	Fair	Fair	Fair

COMMENTS:

Photo # 19. Pavement near beginning of road.
Photo # 20. Typical pavement section near hill.
Photo # 21. View of road near hill.

ROUTE: 101 Flint Ridge Rd.



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 102 Cedar Sink Road

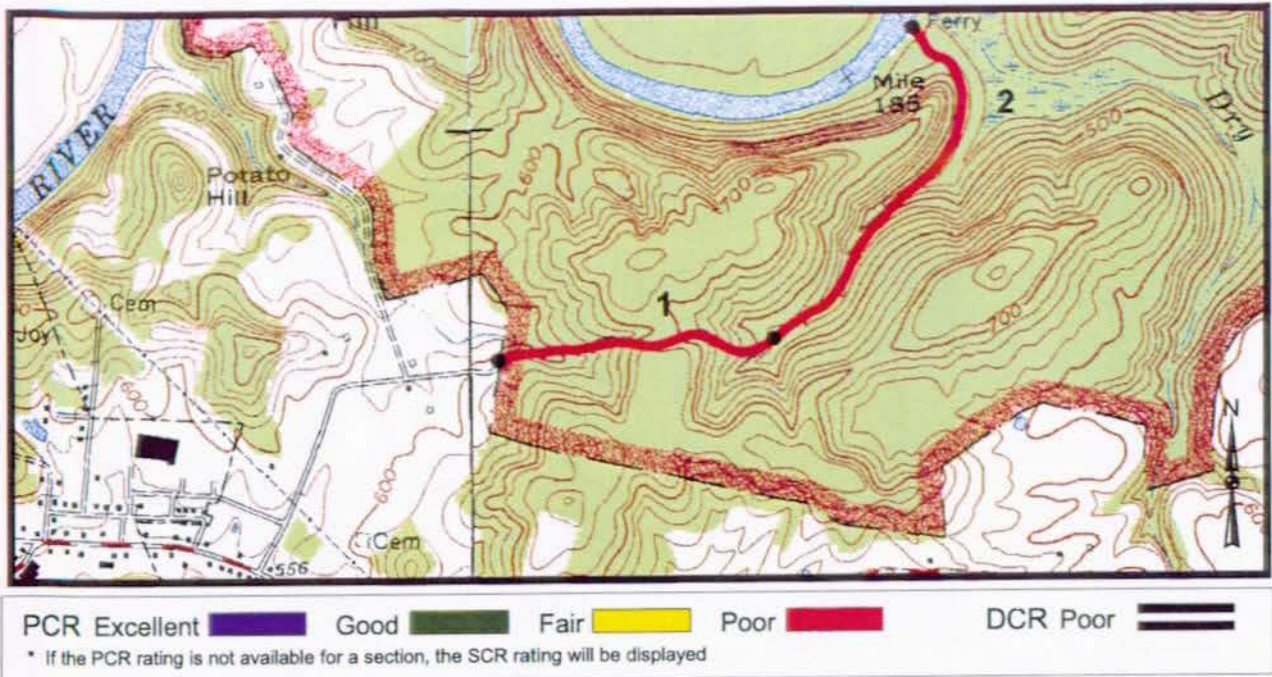
TOTAL LENGTH: 1.23 Miles

Section Number	1	2			
Section Length (mi)	0.57	0.66			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	20	20			
Lane Width (ft)	10	10			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	95	95			
Roughness Index	92	93			
SCR (Surface Condition Rating)	96	96			
Alligator Cracking	100	100			
Rutting Index	93	93			
Patching Index	100	100			
Transverse Cracking	100	100			
Longitudinal Cracking	100	99			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Good	Good			

COMMENTS:

Photo # 22. Sample unit 1 - typical pavement section.
Photo # 23. View of curb and ditch along the road.

ROUTE: 102 Cedar Sink Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 103 Houchins Ferry Road South

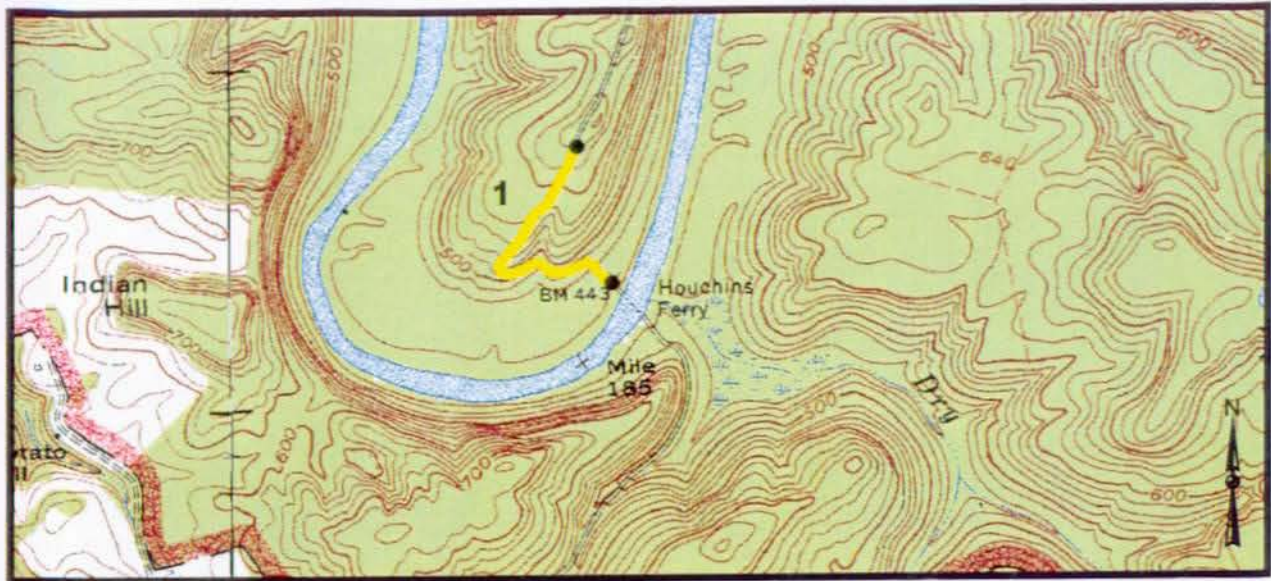
TOTAL LENGTH: 1.04 Miles

Section Number	1	2			
Section Length (mi)	0.46	0.58			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	14	14			
Lane Width (ft)	7	7			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	50	53			
Roughness Index	15	12			
SCR (Surface Condition Rating)	74	80			
Alligator Cracking	100	100			
Rutting Index	75	75			
Patching Index	92	95			
Transverse Cracking	100	100			
Longitudinal Cracking	95	97			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Fair	Fair			

COMMENTS:

Photo # 25. View of road towards ferry.

ROUTE: 103 Houchins Ferry Road South



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 103N Houchins Ferry Road North

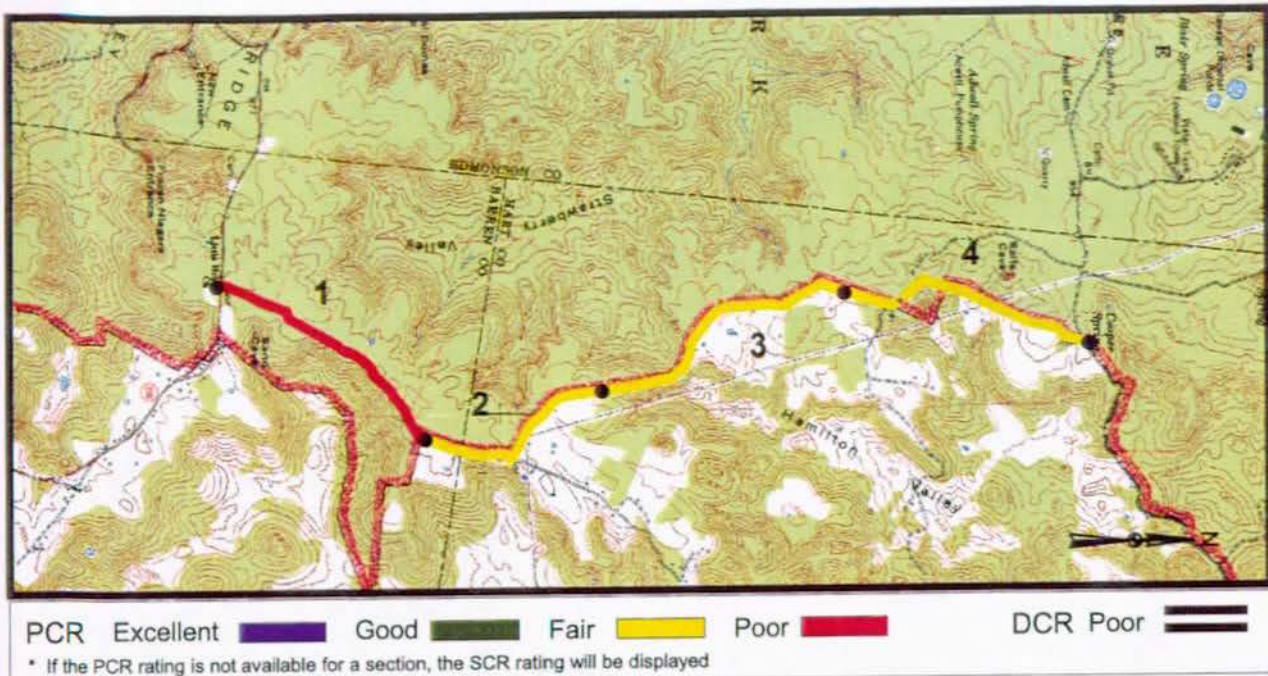
TOTAL LENGTH: 0.40 Miles

Section Number	1				
Section Length (mi)	0.40				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	NA				
Roughness Index	NA				
SCR (Surface Condition Rating)	71				
Alligator Cracking	92				
Rutting Index	79				
Patching Index	99				
Transverse Cracking	100				
Longitudinal Cracking	91				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Fair				

COMMENTS:

Photo # 24. Sample unit 1 - typical pavement section.

ROUTE: 103N Houchins Ferry Road North



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 106 Park Ridge Rd.

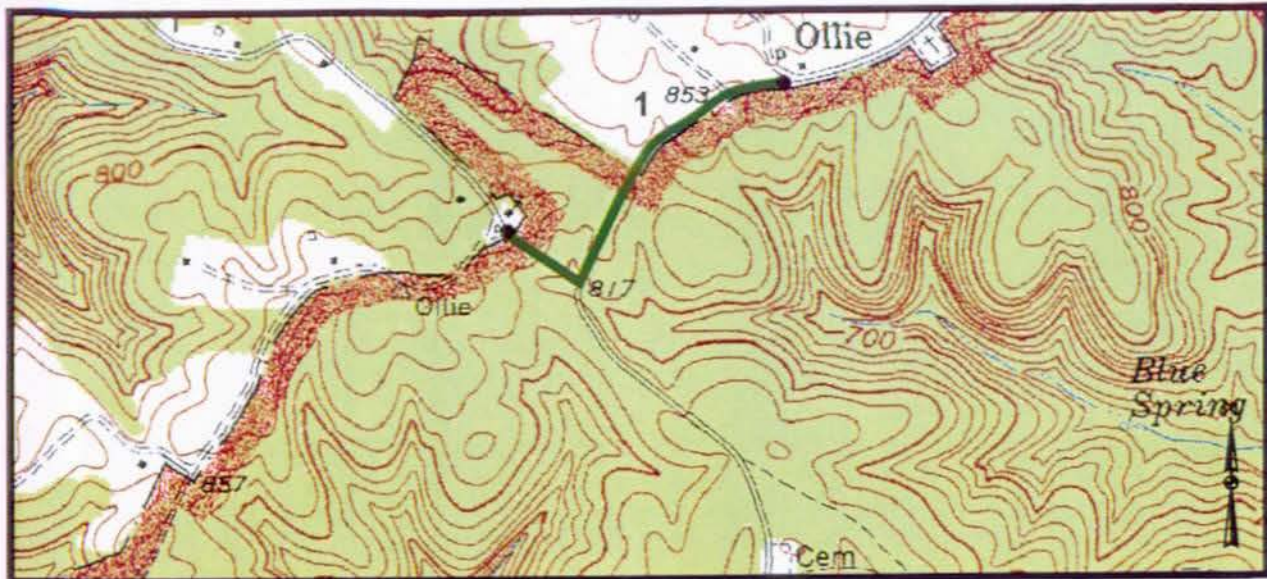
TOTAL LENGTH: 3.63 Miles

Section Number	1	2	3	4	
Section Length (mi)	0.96	0.75	1.00	0.92	
AADT	NA	NA	NA	NA	
SADT	NA	NA	NA	NA	
ADT Date	NA	NA	NA	NA	
Cross Section Information					
Number of Lanes	2	2	2	2	
Paved Width (ft)	12	12	12	12	
Lane Width (ft)	6	6	6	6	
Shoulder Width (ft)	0	0	0	0	
Roadway Condition Information					
PCR (Pavement Condition Rating)	31	72	68	67	
Roughness Index	24	48	48	39	
SCR (Surface Condition Rating)	35	89	81	85	
Alligator Cracking	92	100	100	100	
Rutting Index	60	77	63	83	
Patching Index	78	100	100	100	
Transverse Cracking	99	100	100	97	
Longitudinal Cracking	85	100	99	96	
Shoulder Condition Rating	NA	NA	NA	NA	
Drainage Condition Rating	Good	Good	Good	Good	

COMMENTS:

Photo # 26. Northbound view of road at approximately 1.8 miles.
Photo # 27. Southbound view of road at approximately 1.8 miles.

ROUTE: 106 Park Ridge Rd.



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 108 Ollie Road

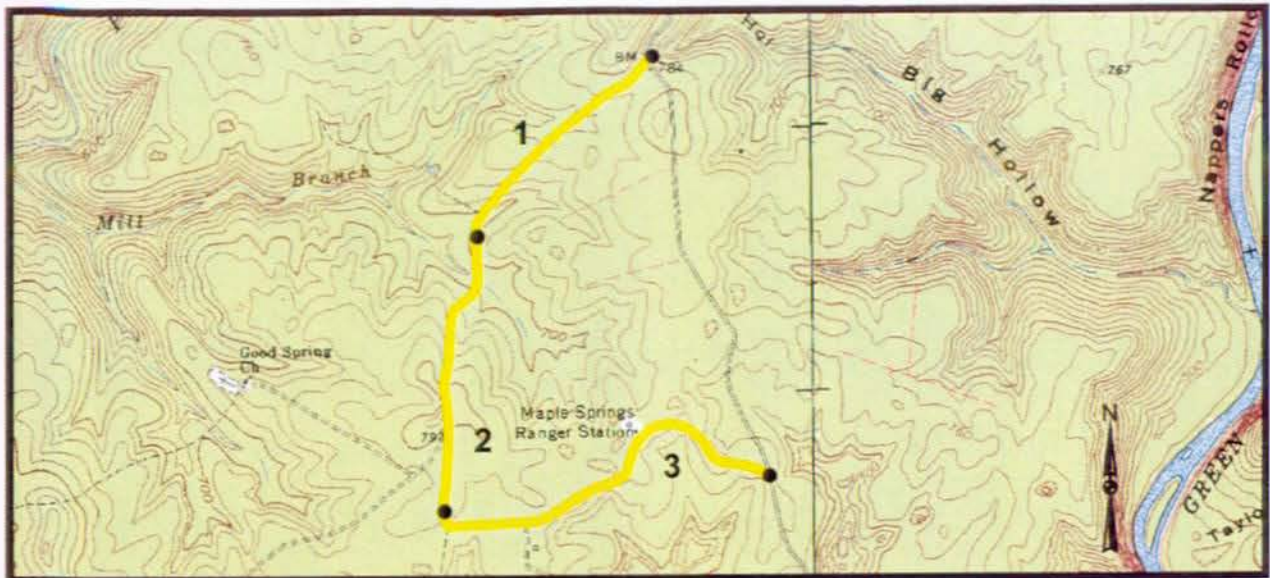
TOTAL LENGTH: 0.46 Miles

Section Number	1				
Section Length (mi)	0.46				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	93				
Roughness Index	82				
SCR (Surface Condition Rating)	100				
Alligator Cracking	100				
Rutting Index	100				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	100				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Fair				

COMMENTS:

Photo # 28. Beginning of road.
Photo # 29. Typical pavement section.

ROUTE: 108 Ollie Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 110 Maple Springs Loop

TOTAL LENGTH: 2.01 Miles

Section Number	1	2	3		
Section Length (mi)	0.50	0.61	0.89		
AADT	NA	NA	NA		
SADT	NA	NA	NA		
ADT Date	NA	NA	NA		
Cross Section Information					
Number of Lanes	1	2	1		
Paved Width (ft)	12	14	13		
Lane Width (ft)	12	7	13		
Shoulder Width (ft)	0	0	0		
Roadway Condition Information					
PCR (Pavement Condition Rating)	66	68	69		
Roughness Index	31	33	34		
SCR (Surface Condition Rating)	90	92	92		
Alligator Cracking	100	100	100		
Rutting Index	81	87	84		
Patching Index	100	100	100		
Transverse Cracking	100	100	100		
Longitudinal Cracking	99	98	100		
Shoulder Condition Rating	NA	NA	NA		
Drainage Condition Rating	Fair	Fair	Fair		

COMMENTS:

Photo # 30. Sample unit 1 - typical pavement section.
Photo # 31. Sample unit 2 - typical pavement section.

ROUTE: 110 Maple Springs Loop



PCR Excellent
 Good
 Fair
 Poor
 DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 111 Cedar Hill Church Rd

TOTAL LENGTH: 1.80 Miles

Section Number	1	2			
Section Length (mi)	1.00	0.80			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	18	18			
Lane Width (ft)	9	9			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	42	48			
Roughness Index	30	35			
SCR (Surface Condition Rating)	49	56			
Alligator Cracking	77	87			
Rutting Index	74	67			
Patching Index	100	93			
Transverse Cracking	88	100			
Longitudinal Cracking	98	92			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Good	Good			

COMMENTS:

Photo # 32. Sample unit 1 - typical pavement section.
Photo # 33. Sample unit 2 - typical pavement section.

ROUTE: 111 Cedar Hill Church Rd



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 112 South East Entrance Rd

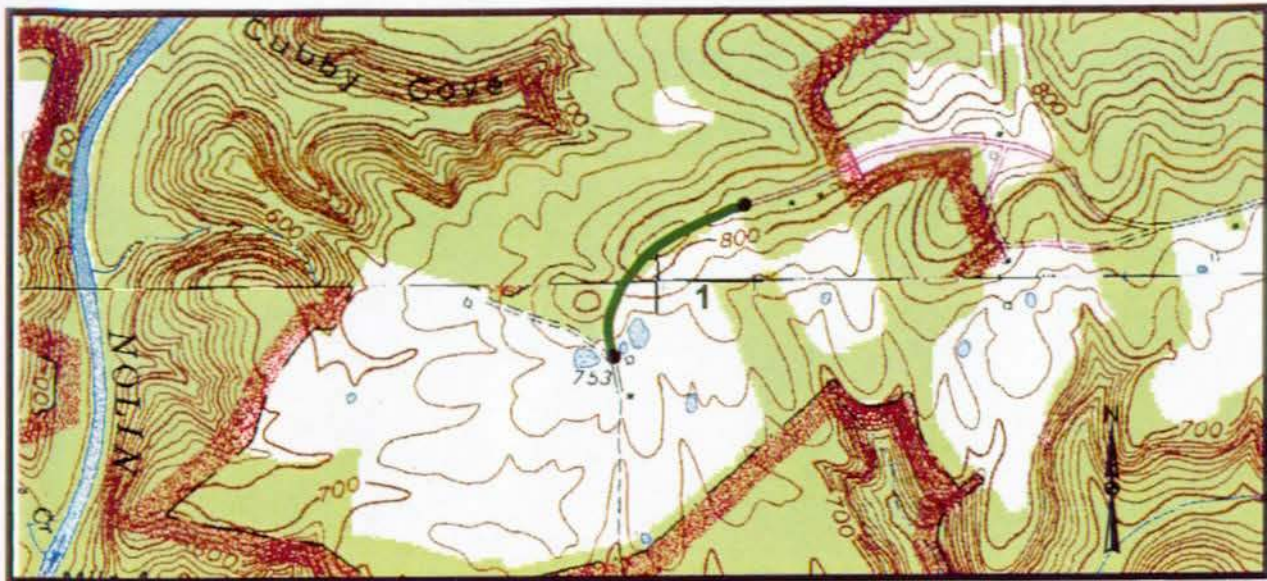
TOTAL LENGTH: 1.23 Miles

Section Number	1	2			
Section Length (mi)	0.57	0.67			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	24	24			
Lane Width (ft)	12	12			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	95	88			
Roughness Index	95	77			
SCR (Surface Condition Rating)	95	95			
Alligator Cracking	100	100			
Rutting Index	95	95			
Patching Index	100	100			
Transverse Cracking	98	98			
Longitudinal Cracking	99	99			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Good	Good			

COMMENTS:

Photo # 34. Sample unit 1 - typical pavement section.

ROUTE: 112 South East Entrance Rd



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 115 Ollie Road (Onyx Job Corp Center)

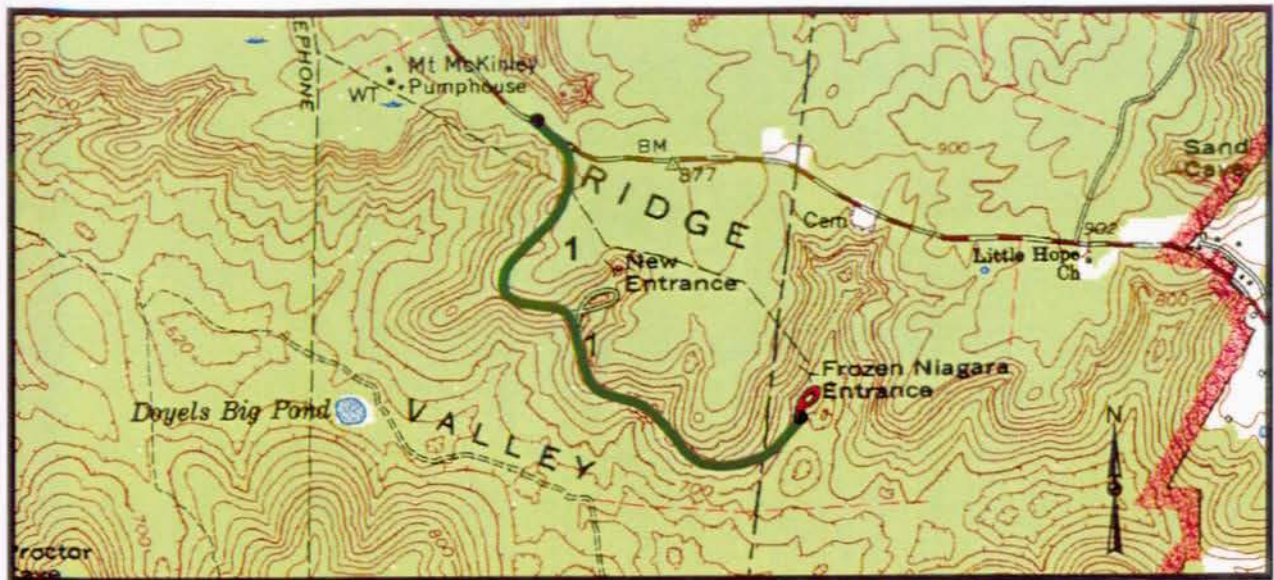
TOTAL LENGTH: 0.45 Miles

Section Number	1				
Section Length (mi)	0.45				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	93				
Roughness Index	96				
SCR (Surface Condition Rating)	91				
Alligator Cracking	100				
Rutting Index	97				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	93				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 35. Typical pavement section.
Photo # 36. Road near entrance to Onyx Job Corp Center.

ROUTE: 115 Ollie Road (Onyx Job Corp Center)



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 200 Frozen Niagara Entrance Rd.

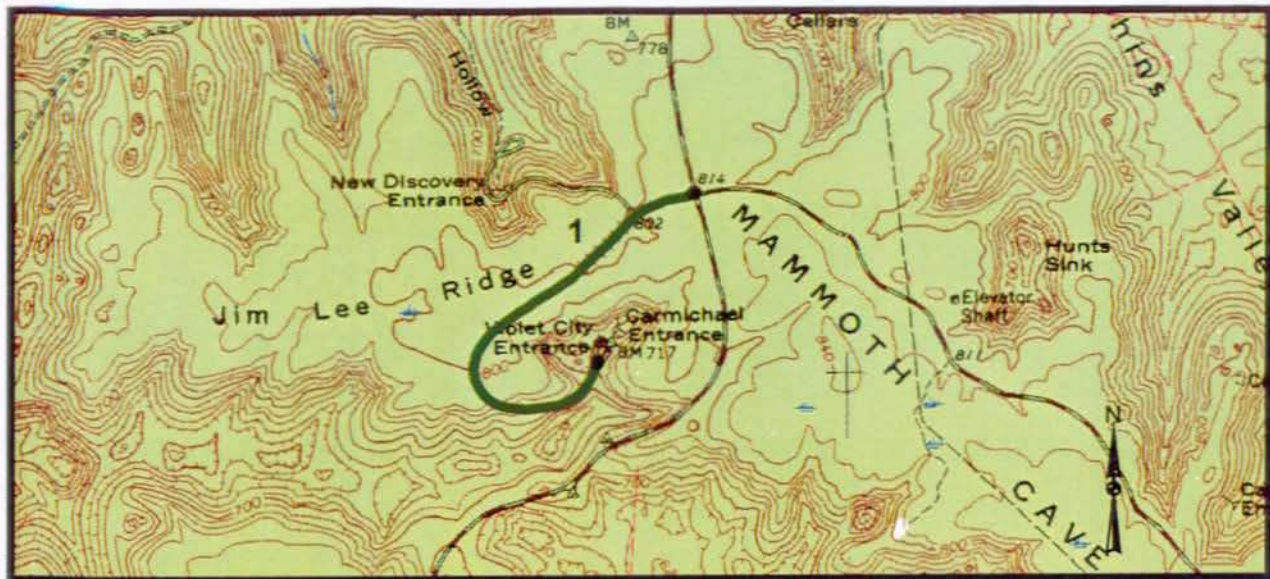
TOTAL LENGTH: 1.11 Miles

Section Number	1				
Section Length (mi)	1.11				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	89				
Roughness Index	89				
SCR (Surface Condition Rating)	88				
Alligator Cracking	100				
Rutting Index	89				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	93				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 37. Pavement at MP 0.4.

ROUTE: 200 Frozen Niagara Entrance Rd.



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 201 Carmichael Entrance Road

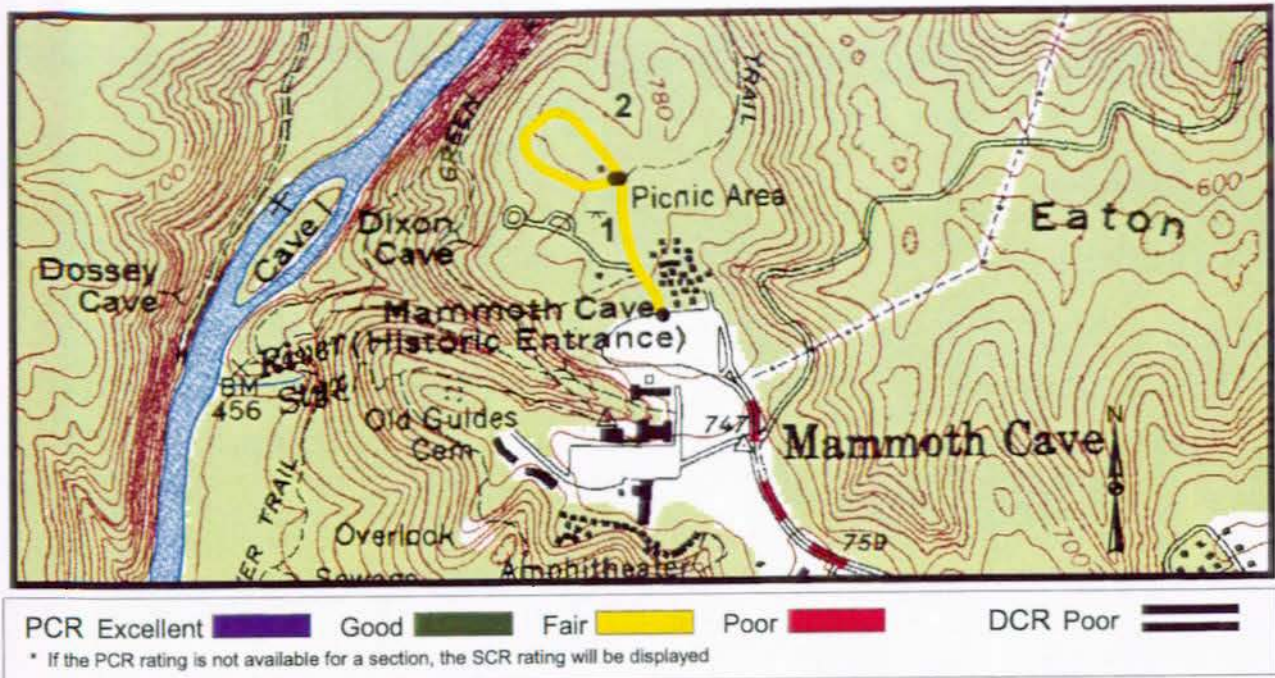
TOTAL LENGTH: 0.89 Miles

Section Number	1				
Section Length (mi)	0.89				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	91				
Roughness Index	85				
SCR (Surface Condition Rating)	95				
Alligator Cracking	100				
Rutting Index	90				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	99				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 38. Pavement at MP 0.1.
Photo # 39. Pavement at MP 0.84.

ROUTE: 201 Carmichael Entrance Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 202 Picnic Grounds Road

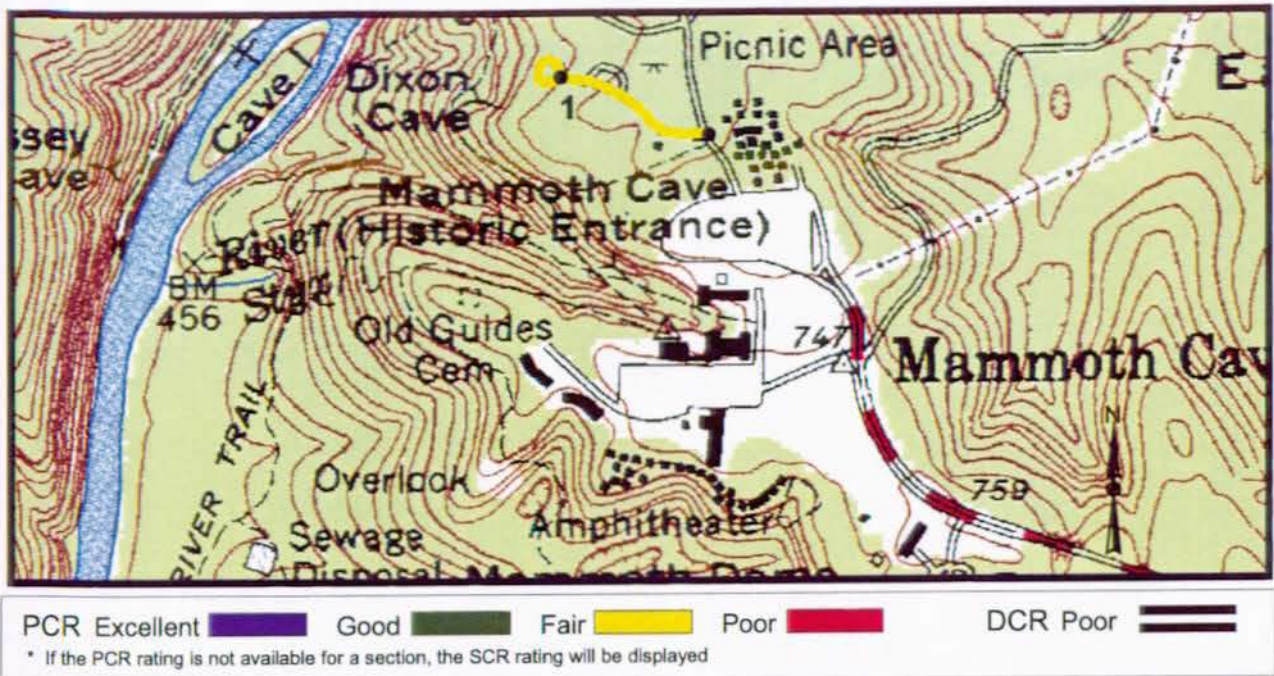
TOTAL LENGTH: 0.45 Miles

Section Number	1	2			
Section Length (mi)	0.16	0.29			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	1			
Paved Width (ft)	18	11			
Lane Width (ft)	9	11			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	74	71			
Roughness Index	52	38			
SCR (Surface Condition Rating)	89	93			
Alligator Cracking	100	100			
Rutting Index	97	93			
Patching Index	98	100			
Transverse Cracking	100	99			
Longitudinal Cracking	93	97			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Fair	Fair			

COMMENTS:

Photo # 40. Sample unit 1 - typical pavement section.

ROUTE: 202 Picnic Grounds Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 203 Picnic Shelter Road

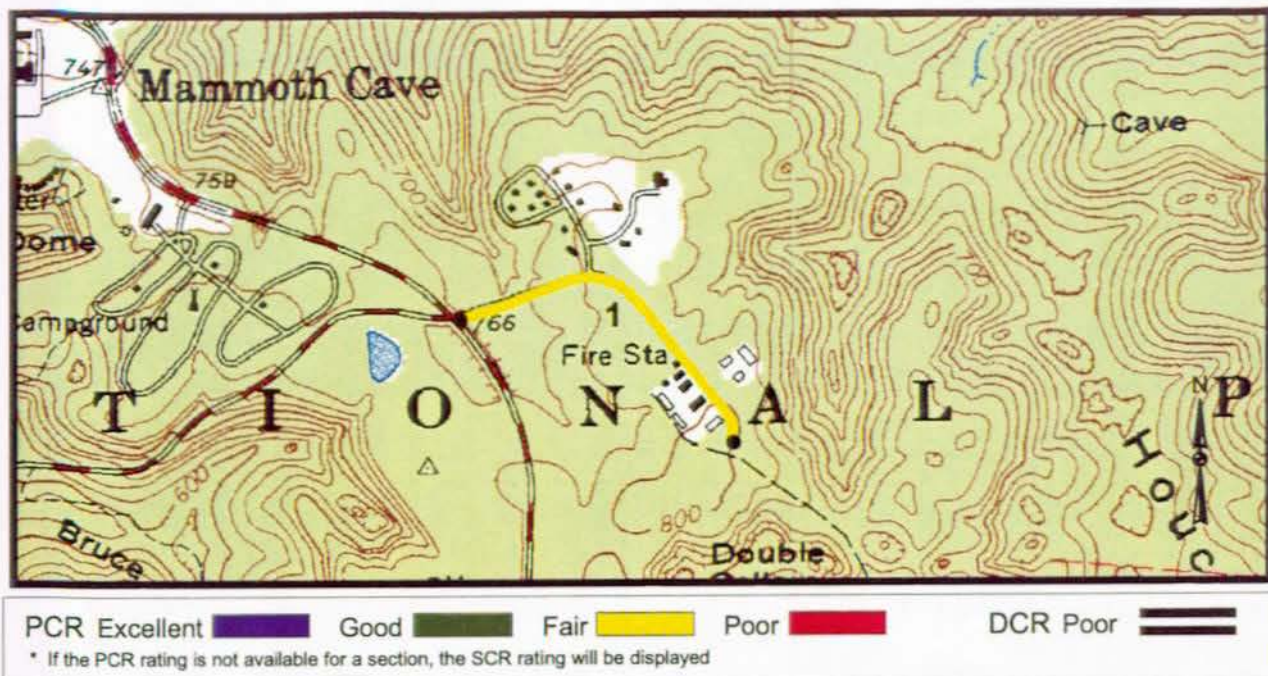
TOTAL LENGTH: 0.20 Miles

Section Number	1				
Section Length (mi)	0.20				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	70				
Roughness Index	42				
SCR (Surface Condition Rating)	89				
Alligator Cracking	100				
Rutting Index	77				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	100				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 41. Section 1 - typical pavement section.

ROUTE: 203 Picnic Shelter Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 417 Park Maintenance Road

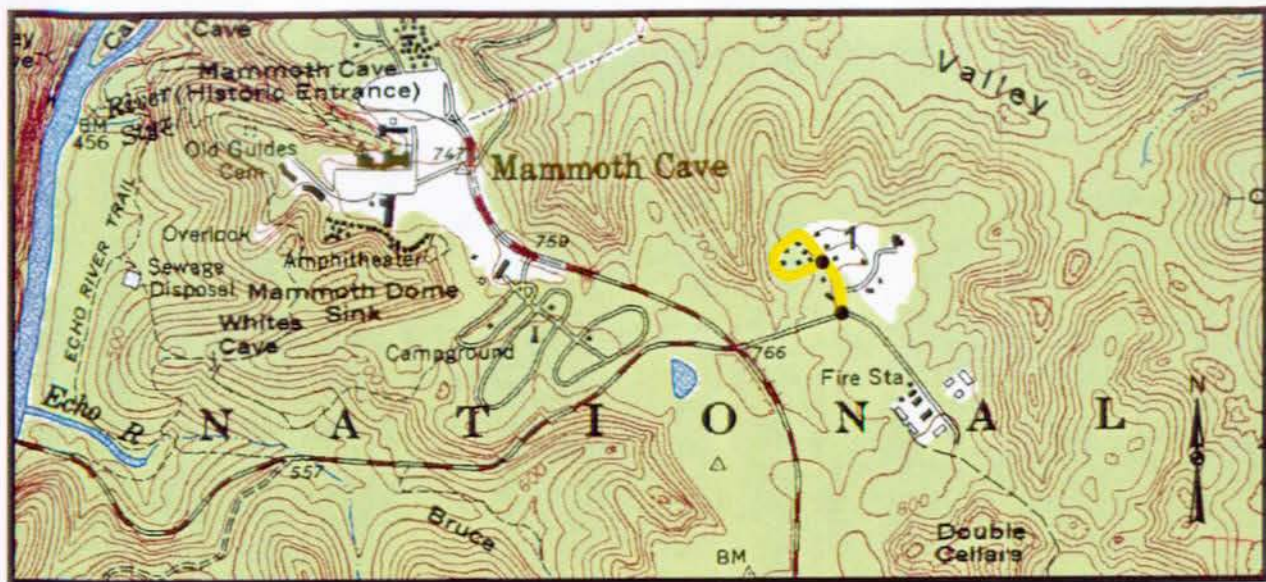
TOTAL LENGTH: 0.46 Miles

Section Number	1				
Section Length (mi)	0.46				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	71				
Roughness Index	41				
SCR (Surface Condition Rating)	91				
Alligator Cracking	99				
Rutting Index	100				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	91				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 42. Section 1 - typical pavement section.

ROUTE: 417 Park Maintenance Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 418 Residence Loop Road

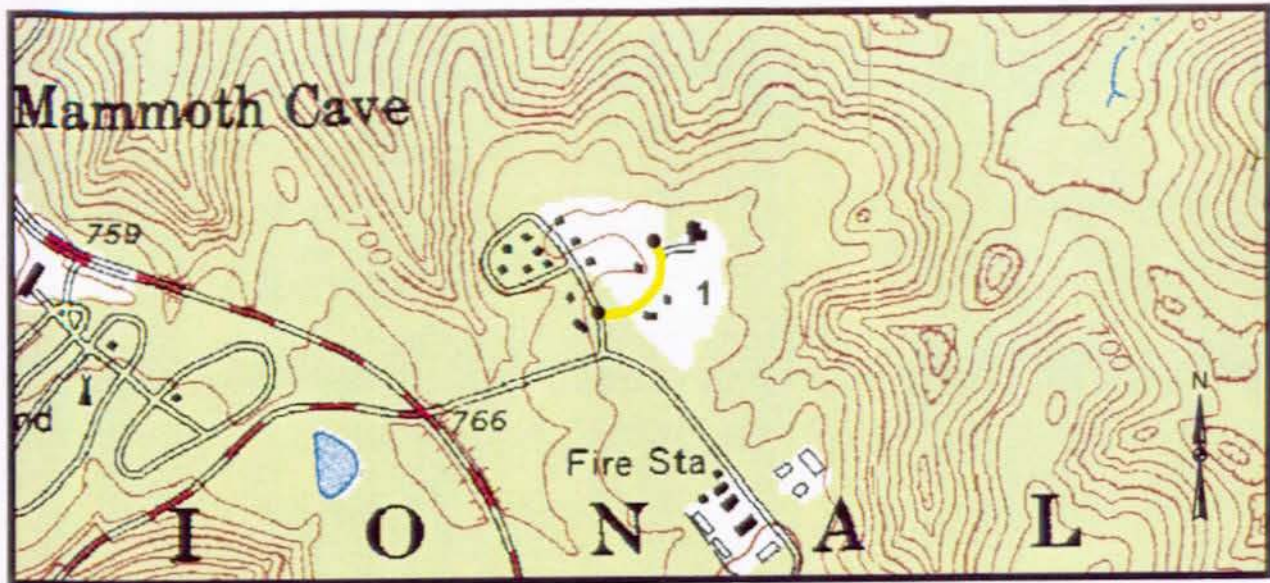
TOTAL LENGTH: 0.33 Miles

Section Number	1				
Section Length (mi)	0.33				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	82				
Roughness Index	58				
SCR (Surface Condition Rating)	98				
Alligator Cracking	100				
Rutting Index	99				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	98				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Fair				

COMMENTS:

Photo # 43. Section 1 - typical pavement section.

ROUTE: 418 Residence Loop Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 419 Residence Road

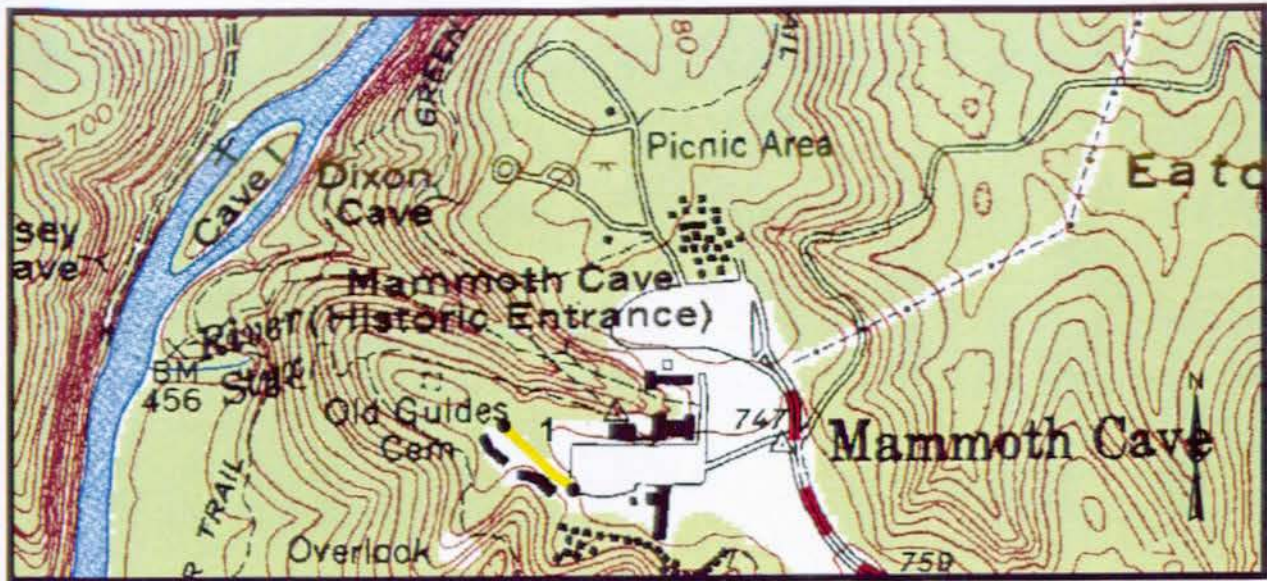
TOTAL LENGTH: 0.11 Miles

Section Number	1				
Section Length (mi)	0.11				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	16				
Lane Width (ft)	12				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	61				
Roughness Index	33				
SCR (Surface Condition Rating)	80				
Alligator Cracking	97				
Rutting Index	98				
Patching Index	100				
Transverse Cracking	92				
Longitudinal Cracking	91				
Shoulder Condition Rating	Excellent				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 48. Section 1 - typical pavement section.

ROUTE: 419 Residence Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 430 Motel Road

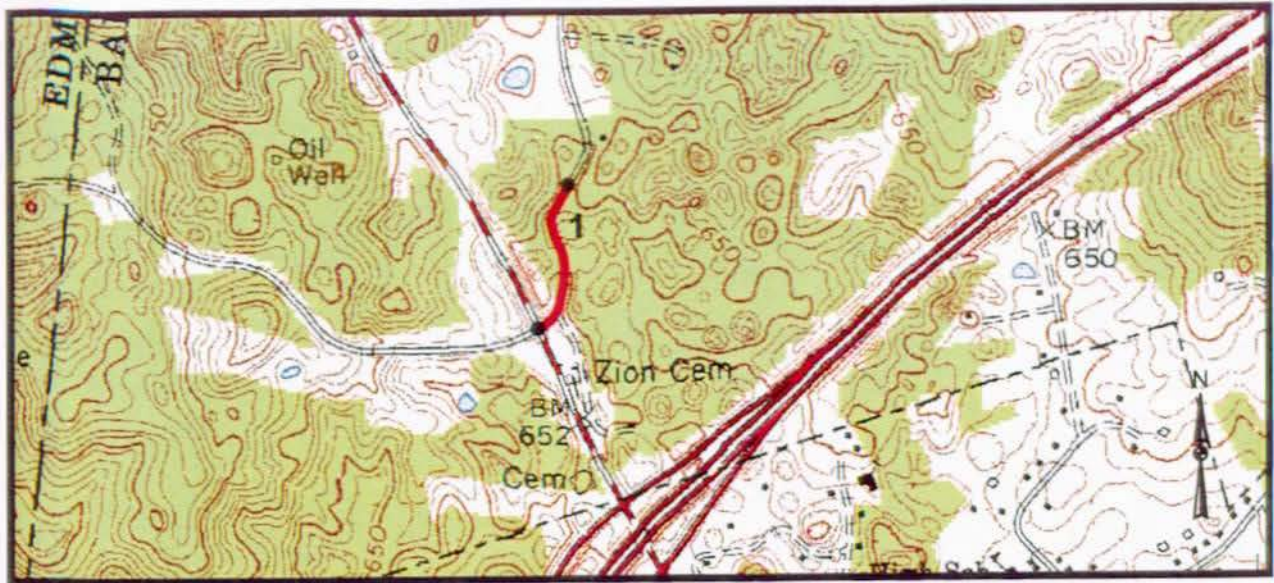
TOTAL LENGTH: 0.09 Miles

Section Number	1				
Section Length (mi)	0.09				
AADT	NA				
SADT	NA				
ADT Date	NA				
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)	NA				
Roughness Index	NA				
SCR (Surface Condition Rating)	74				
Alligator Cracking	100				
Rutting Index	95				
Patching Index	98				
Transverse Cracking	98				
Longitudinal Cracking	81				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 45. Section 1 - typical pavement section.

ROUTE: 430 Motel Road



SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 601 Doyle Road

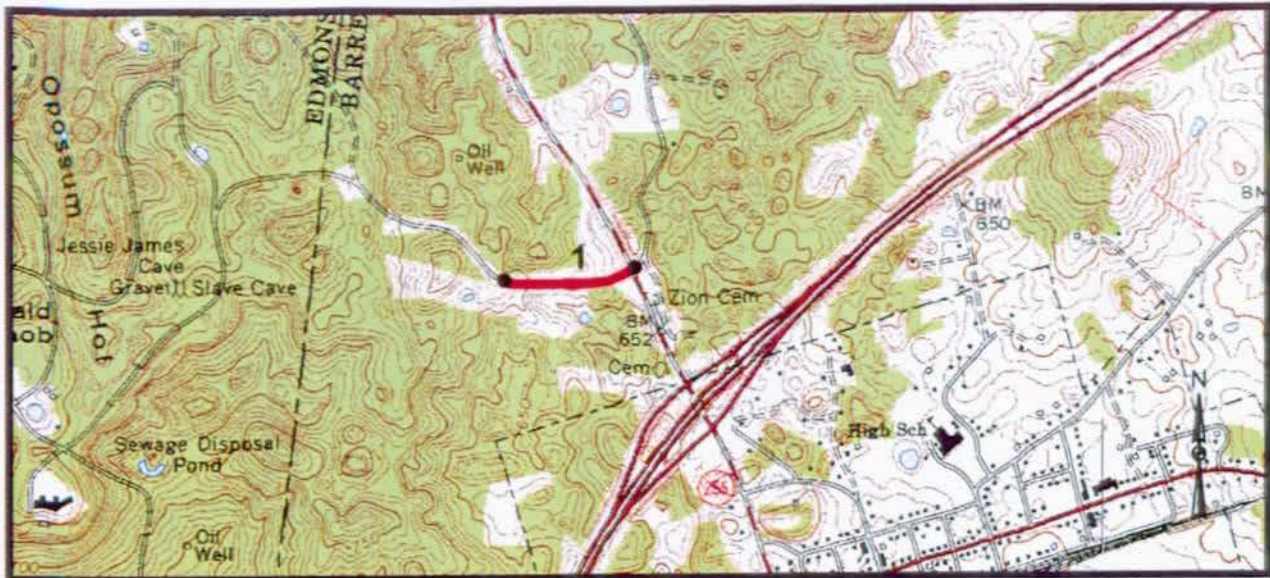
TOTAL LENGTH: 0.19 Miles

Section Number	1				
Section Length (mi)	0.19				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	16				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	54				
Roughness Index	46				
SCR (Surface Condition Rating)	59				
Alligator Cracking	100				
Rutting Index	63				
Patching Index	90				
Transverse Cracking	100				
Longitudinal Cracking	88				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 46. Sample unit 1 - typical pavement section.

ROUTE: 601 Doyle Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 602 Zion Cemetery Rd.

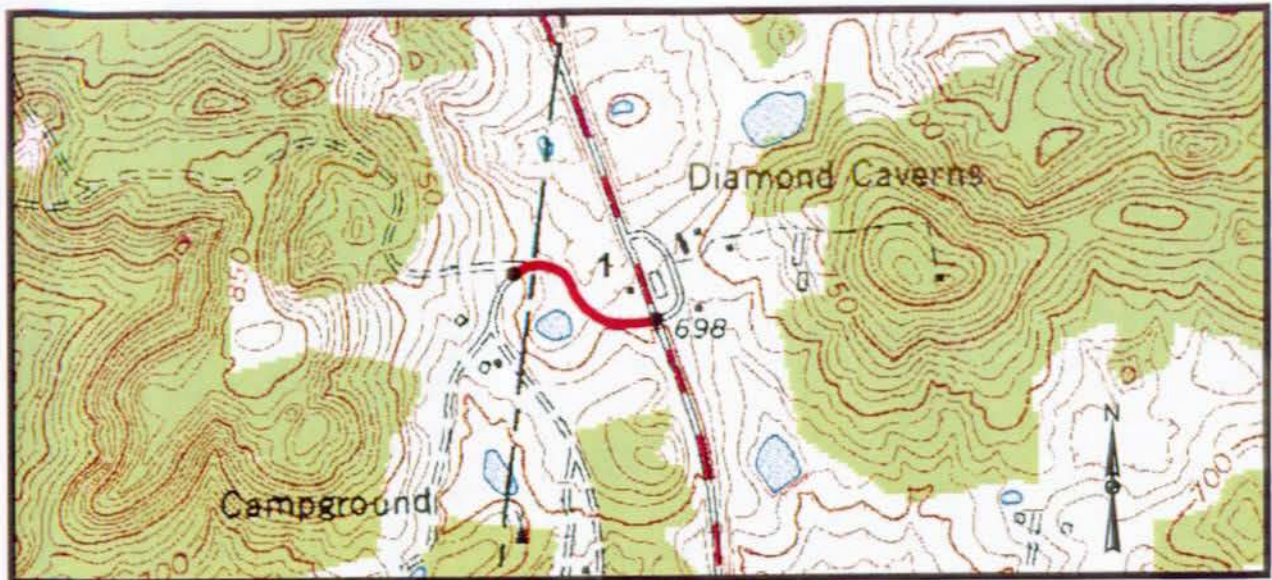
TOTAL LENGTH: 0.20 Miles

Section Number	1				
Section Length (mi)	0.20				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	57				
Roughness Index	27				
SCR (Surface Condition Rating)	78				
Alligator Cracking	90				
Rutting Index	84				
Patching Index	100				
Transverse Cracking	98				
Longitudinal Cracking	97				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 47. Section 1 - typical pavement section.

ROUTE: 602 Zion Cemetery Rd.



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

SER: Southeast Region
MACA: Mammoth Cave NP

ROUTE: 603 Short Cave Rd

TOTAL LENGTH: 0.15 Miles

Section Number	1				
Section Length (mi)	0.15				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	37				
Roughness Index	35				
SCR (Surface Condition Rating)	39				
Alligator Cracking	100				
Rutting Index	76				
Patching Index	81				
Transverse Cracking	85				
Longitudinal Cracking	84				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:

Photo # 48. Section 1 - typical pavement section.

ROUTE: 603 Short Cave Rd

MAMMOTH CAVE NATIONAL PARK

Route 407

HISTORIC ENTRANCE RD

RTE 908 HOTEL SERVICE RD TO ENTRANCE

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
407	990803	0.09	18	-	0.18	Fair	Asphalt



60 0 60 120 Feet



MAMMOTH CAVE NATIONAL PARK

Route 408

HOTEL/PARK HDQTRS SERVICES RD

RTE 908 TO END

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
408	990807	-	-	5,528	0.10	Good	Asphalt



40 0 40 80 Feet



MAMMOTH CAVE NATIONAL PARK

Route 420

ELEVATOR SHAFT RD

RTE 016 TO END

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
420	990729	-	-	7,238	0.12	Good	Asphalt



40 0 40 80 Feet



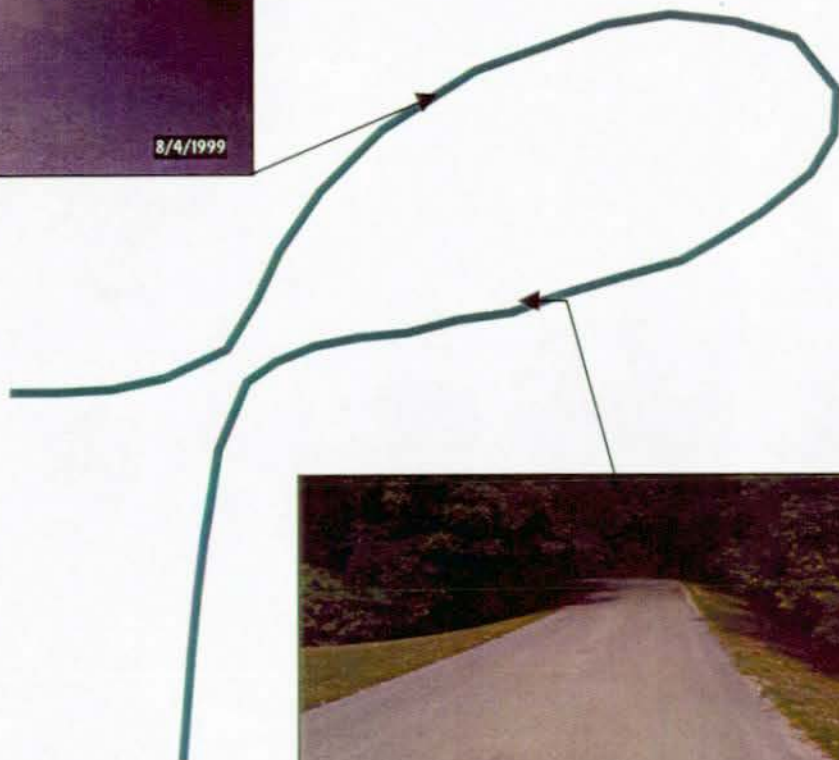
MAMMOTH CAVE NATIONAL PARK

Route 500

FROZEN NIAGARA NEW ENTRANCE LOOP

RTE 200 TO RTE 200

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
500	990804	0.16	13	-	0.16	Good	Asphalt



70 0 70 140 Feet



MAMMOTH CAVE NATIONAL PARK

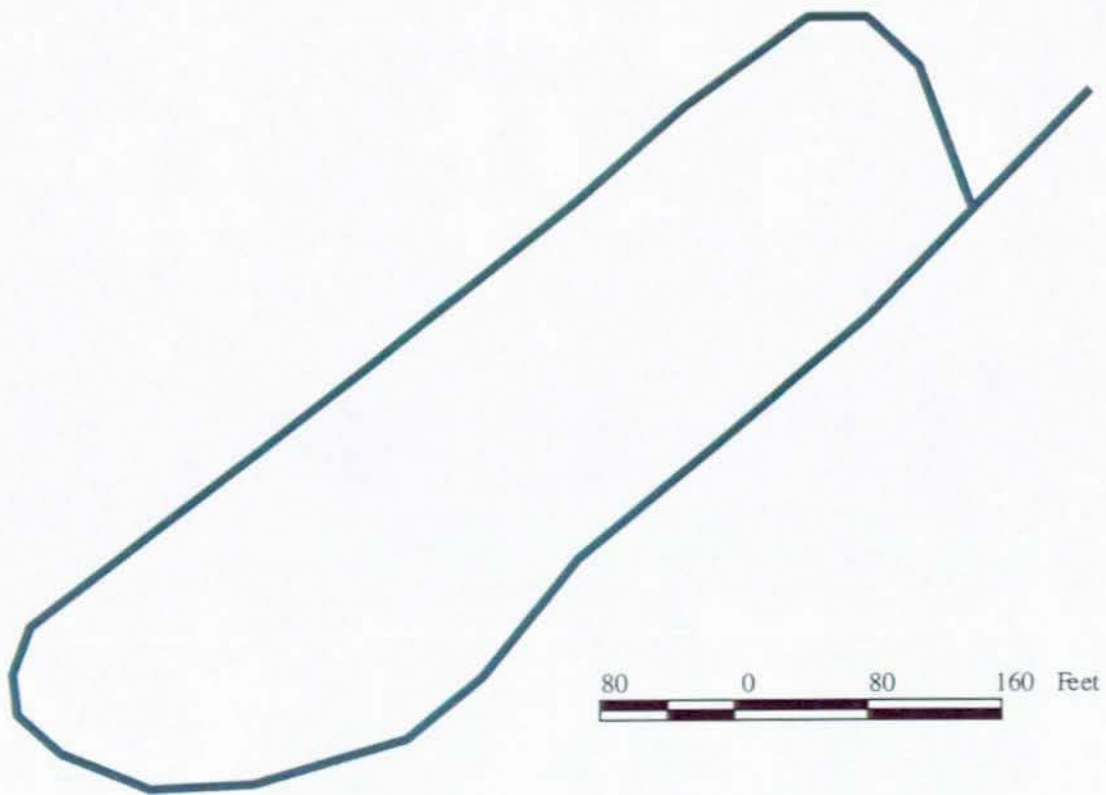
Route 501

VISITOR CENTER CAMPGROUND LOOP A

RTE 504 TO END OF LOOP

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
501	990804	0.30	11	-	0.03	Good	Asphalt

No photos available.



MAMMOTH CAVE NATIONAL PARK

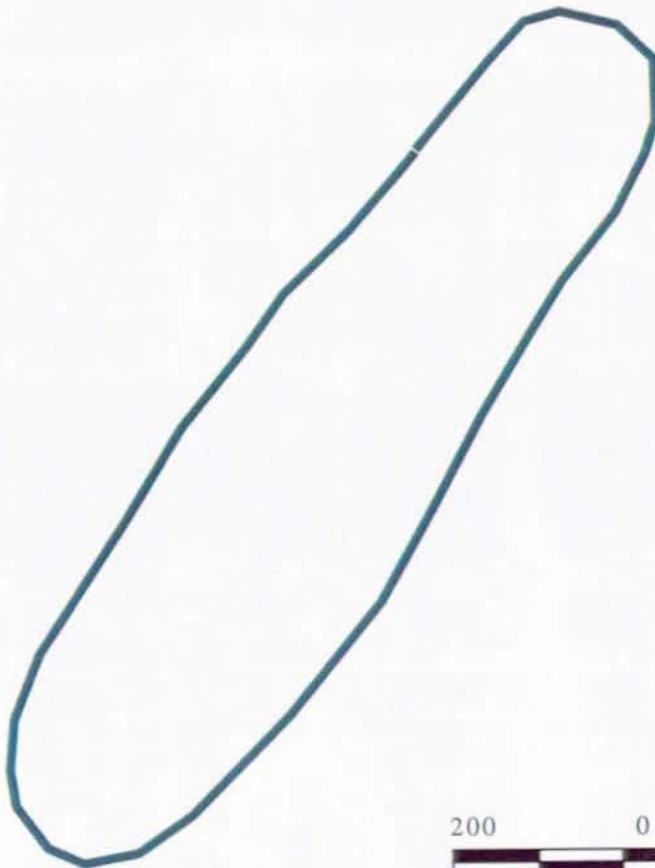
Route 503

VISITOR CENTER CAMPGROUND LOOP

RTE 504 TO END OF LOOP

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
503	990804	0.50	11	-	0.50	Good	Asphalt

No photos available.



MAMMOTH CAVE NATIONAL PARK

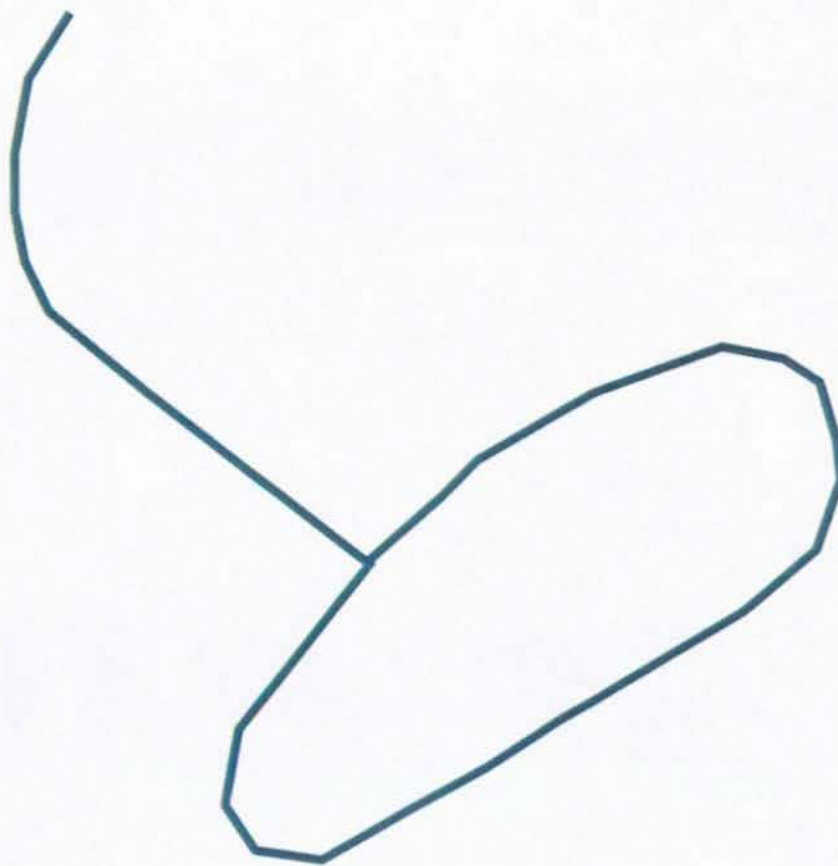
Route 504

VISITOR CENTER CAMPGROUND LOOP C

RTE 010 TO END OF LOOP

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
504	990804	0.59	11	-	0.59	Good	Asphalt

No photo available.



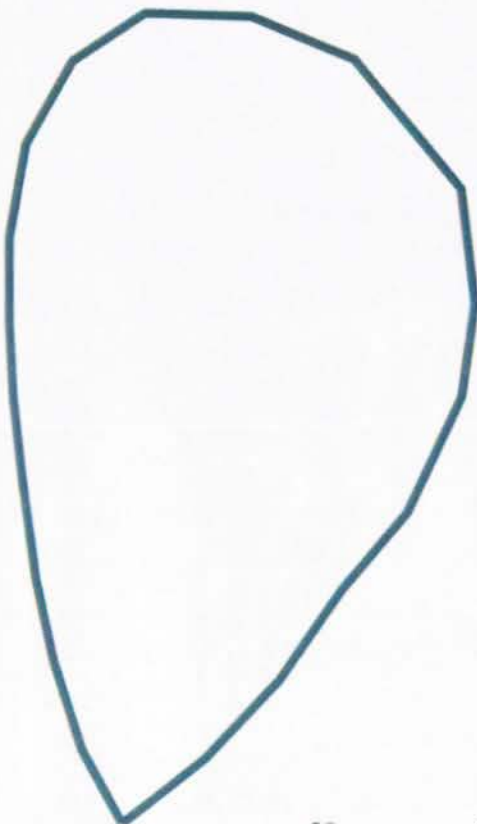
MAMMOTH CAVE NATIONAL PARK

Route 506

CARMICHAEL ENTRANCE LOOP RD

RTE 201 TO END OF LOOP

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
506	990804	0.11	11	-	0.11	Good	Asphalt



1/00

50 0 50 100 Feet



6 - 8

MAMMOTH CAVE NATIONAL PARK

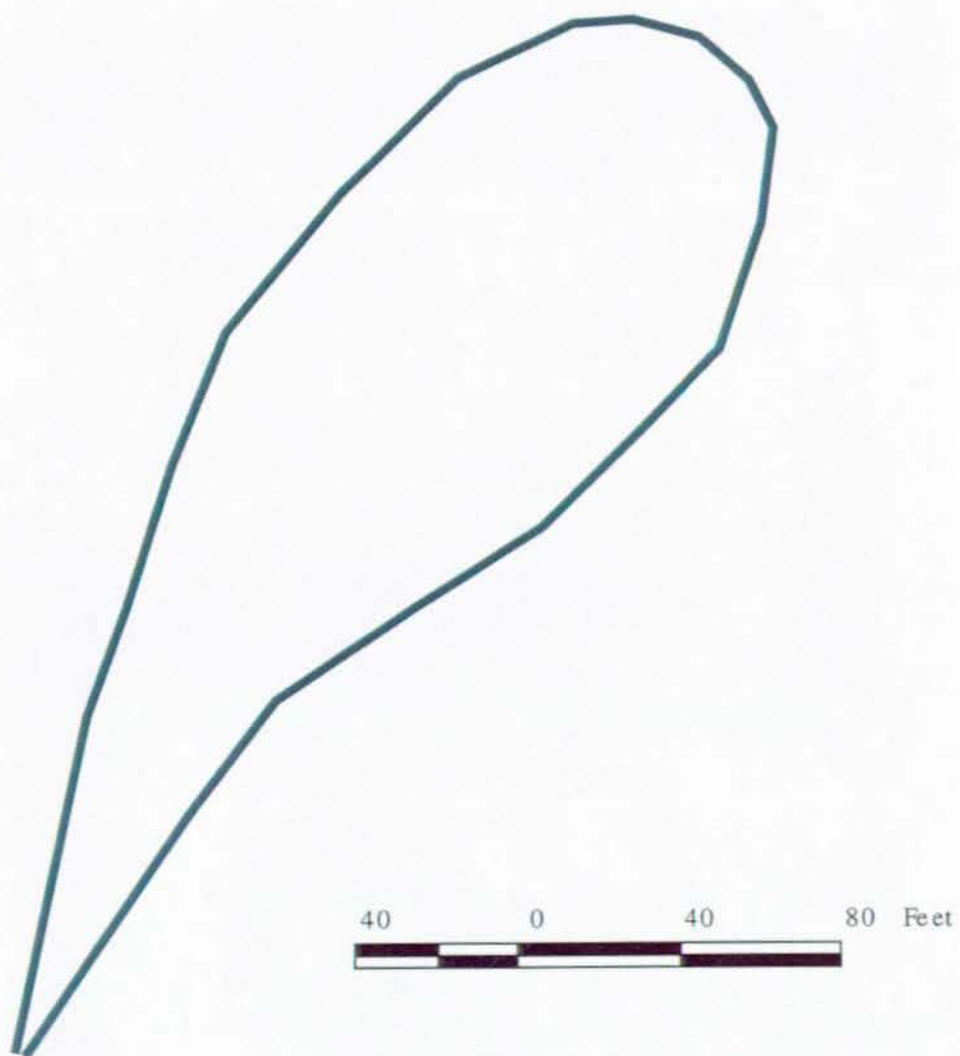
Route 507

FROZEN NIAGARA ENTRANCE LOOP

RTE 200 TO END OF LOOP

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
507	990804	0.09	14	-	0.09	Good	Asphalt

No photo available.



MAMMOTH CAVE NATIONAL PARK

Route 900

RURAL KENTUCKY VIEW

ADJACENT TO RTE 010

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
900	990729	-	-	8,606	0.15	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



30 0 30 60 Feet

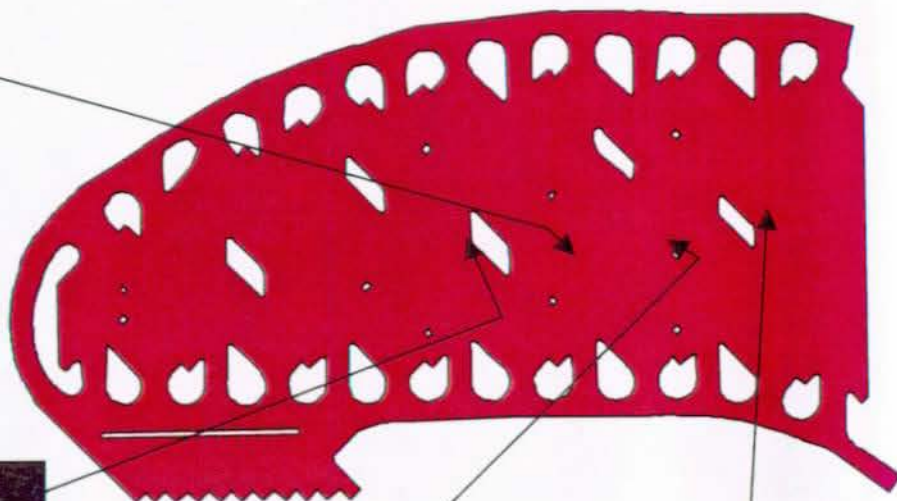


MAMMOTH CAVE NATIONAL PARK
Route 901a
MACA MAIN VISITOR CENTER PARKING

END OF RTE 010

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
901a	990802	-	-	232,829	4.01	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



MAMMOTH CAVE NATIONAL PARK

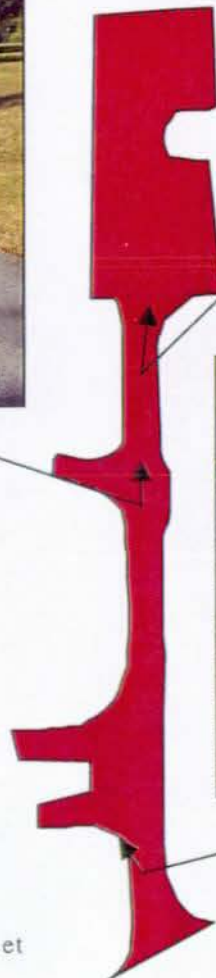
Route 901b

HOTEL SERVICES AND PARK HQ PARKING

ADJACENT TO RTE 408

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
901b	990803	-	-	16,068	0.28	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



70 0 70 140 Feet



MAMMOTH CAVE NATIONAL PARK

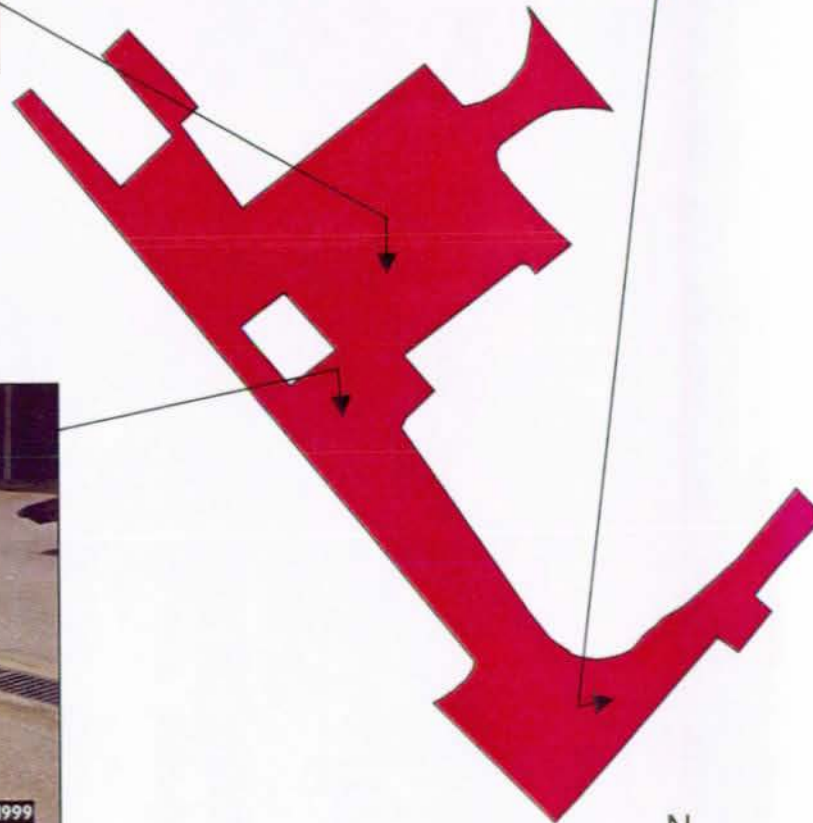
Route 902a

MACA MAINTENANCE PKG A

END OF RTE 417

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
902a	990731	-	-	34,158	0.59	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



50 0 50 100 Feet



MAMMOTH CAVE NATIONAL PARK

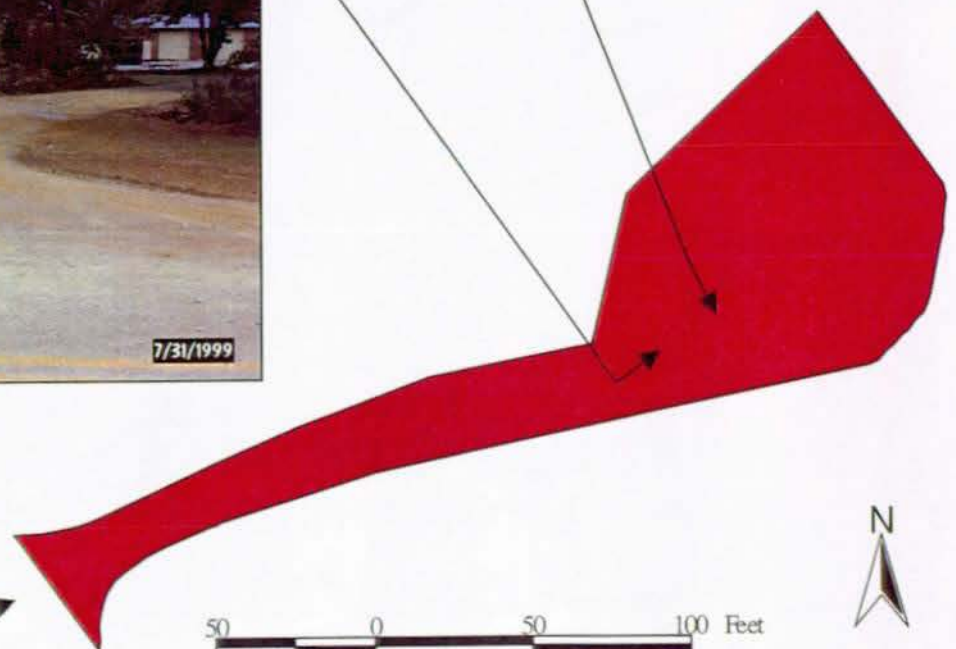
Route 902b

MACA MAINTENANCE PKG A

ADJACENT TO RTE 417

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
902b	990731	-	-	13,356	0.23	Fair	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



50 0 50 100 Feet



MAMMOTH CAVE NATIONAL PARK

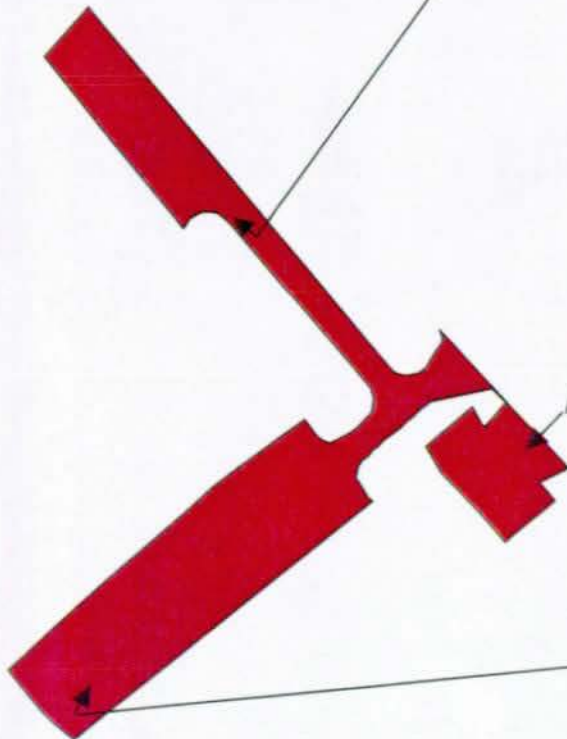
Route 903

RANGER STATION PARKING

RTE 417 TO PARKING

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
903	990731	-	-	22,805	0.39	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



70 0 70 140 Feet



MAMMOTH CAVE NATIONAL PARK

Route 904

HOUCHINS FERRY RD SOUTH PARKING

ADJACENT TO RTE 103

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
904	990804	-	-	7,082	0.12	Fair	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



20 0 20 40 Feet



MAMMOTH CAVE NATIONAL PARK

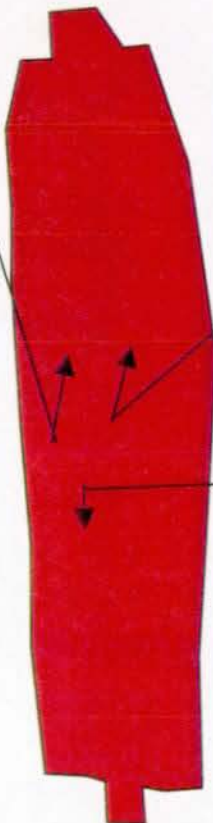
Route 905

RESIDENCE PARKING

ADJACENT TO RTE 418

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
905	990731	-	-	10,509	0.18	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



40 0 40 80 Feet



MAMMOTH CAVE NATIONAL PARK

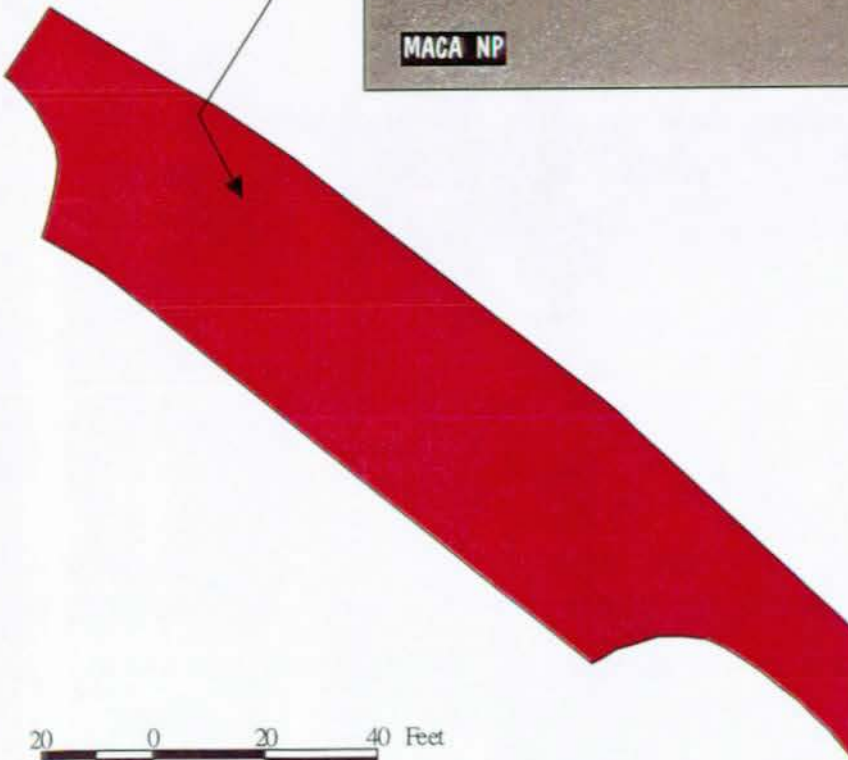
Route 906a

MOTEL PARKING A

ADJACENT TO RTE 430

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
906a	990803	-	-	5,482	0.09	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



20 0 20 40 Feet



MAMMOTH CAVE NATIONAL PARK

Route 906b

MOTEL PARKING B

END OF RTE 430

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
906b	990803	-	-	8,727	0.15	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



40 0 40 80 Feet



MAMMOTH CAVE NATIONAL PARK

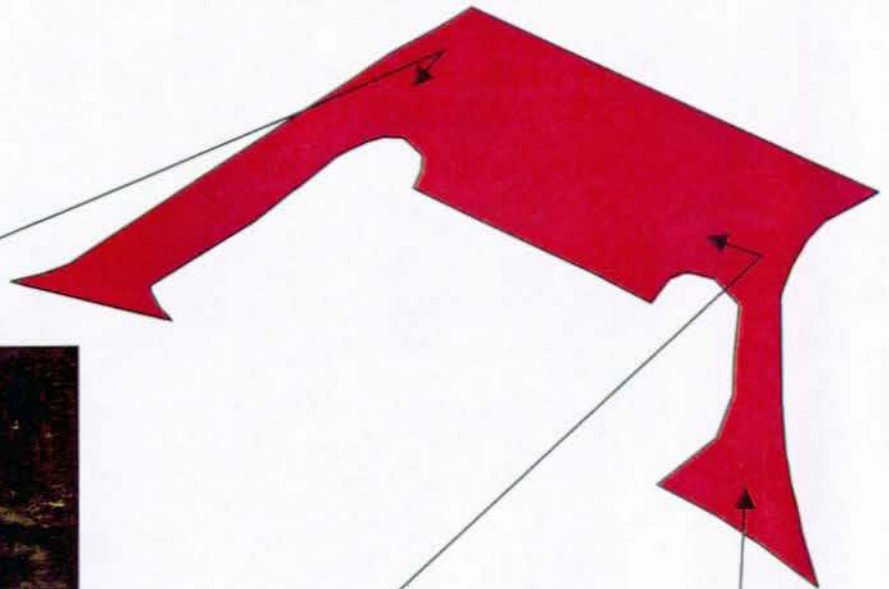
Route 907a

PICNICSHELTER PKG A

ADJACENT TO RTE 203

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
907a	990803	-	-	7,183	0.12	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



30 0 30 60 Feet



MAMMOTH CAVE NATIONAL PARK

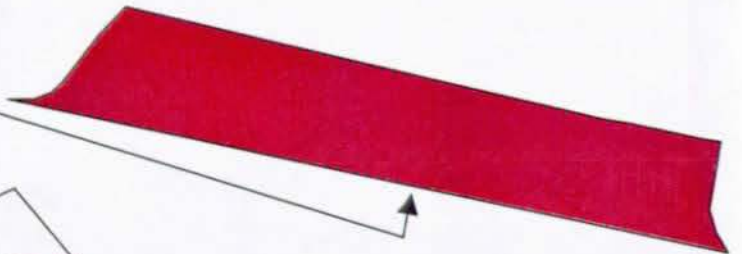
Route 907b

PICNIC SHELTER PKG B

ADJACENT TO RTE 203

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
907b	990803	-	-	4,097	0.07	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



20 0 20 40 Feet



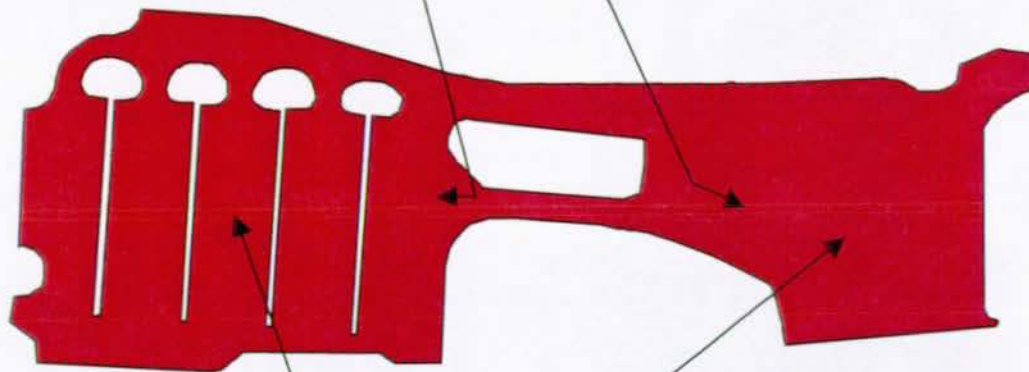
MAMMOTH CAVE NATIONAL PARK

Route 908 HOTEL PARKING

END OF RTE 012

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
908	990803	-	-	123,031	2.12	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



100 0 100 200 Feet



MAMMOTH CAVE NATIONAL PARK

Route 909

SLOANS CROSSING PICNIC/POND PKG

ADJACENT TO RTE 010

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
909	990804	-	-	9,393	0.16	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



40 0 40 80 Feet



MAMMOTH CAVE NATIONAL PARK

Route 911

SOUTH ENTRANCE SIGN PARKING

ADJACENT TO RTE 010

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
911	990730	-	-	9,758	0.17	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



50 0 50 100 Feet



MAMMOTH CAVE NATIONAL PARK

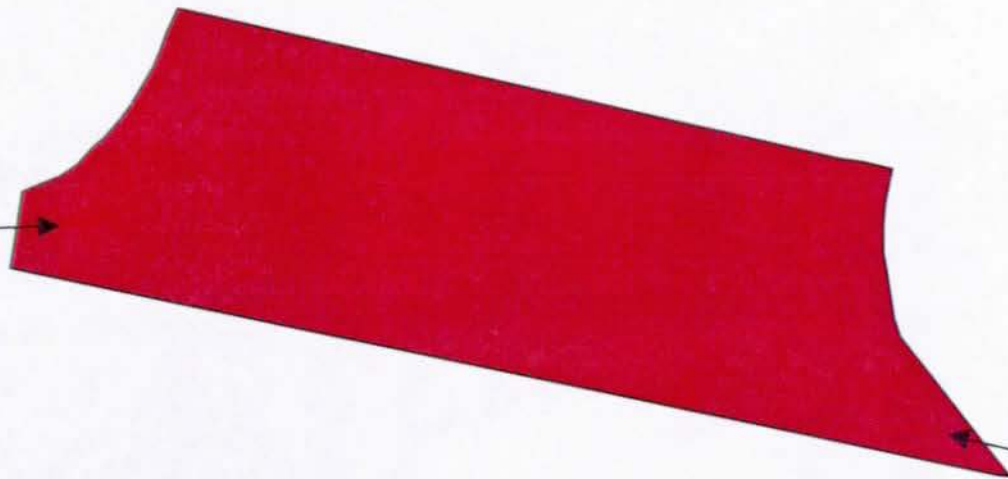
Route 912

TURNHOLE BEND NATURE TRAIL PKG

ADJACENT TO RTE 015

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
912	990729	-	-	5,773	0.10	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



30 0 30 60 Feet



MAMMOTH CAVE NATIONAL PARK

Route 913

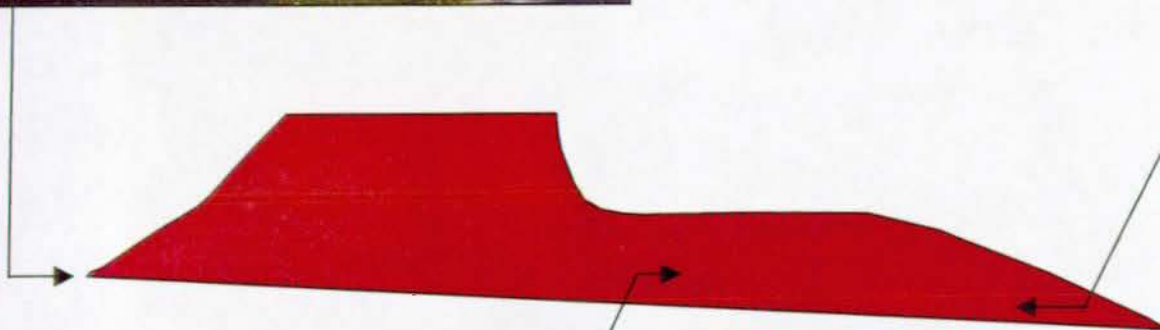
SAND CAVE PARKING

ADJACENT TO RTE 016

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
913	990729	-	-	6,309	0.11	Excellent	Asphalt

- Length and width will be used when applicable

- Lane miles are based on 11' lane widths



MAMMOTH CAVE NATIONAL PARK

Route 914

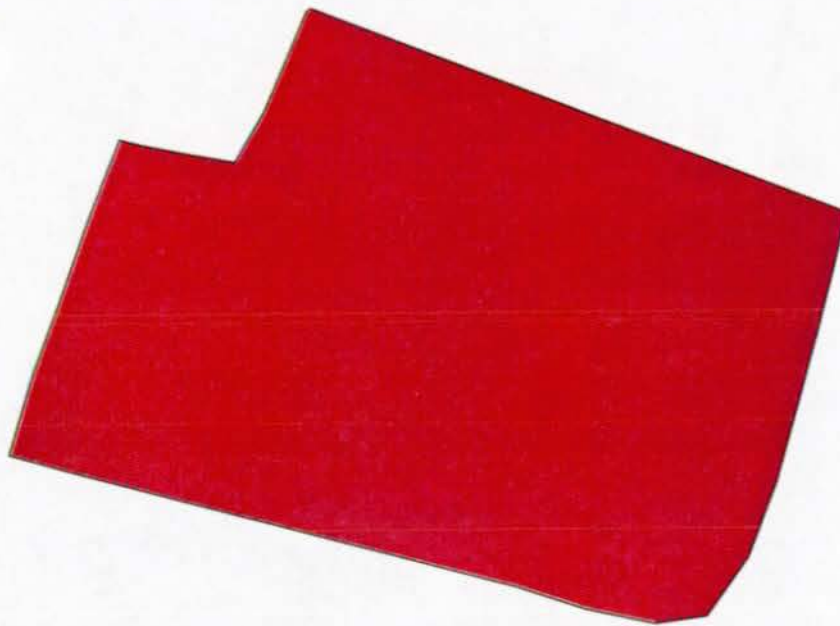
NORTH FERRY PARKING

ADJACENT TO RTE 014

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
914	990808	-	-	994	0.02	Fair	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths

No photographs available.



MAMMOTH CAVE NATIONAL PARK

Route 915

GREEN RIVER FERRY PARKING

ADJACENT TO RTE 013

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
915	990804	-	-	21,874	0.38	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



40 0 40 80 Feet



MAMMOTH CAVE NATIONAL PARK

Route 916

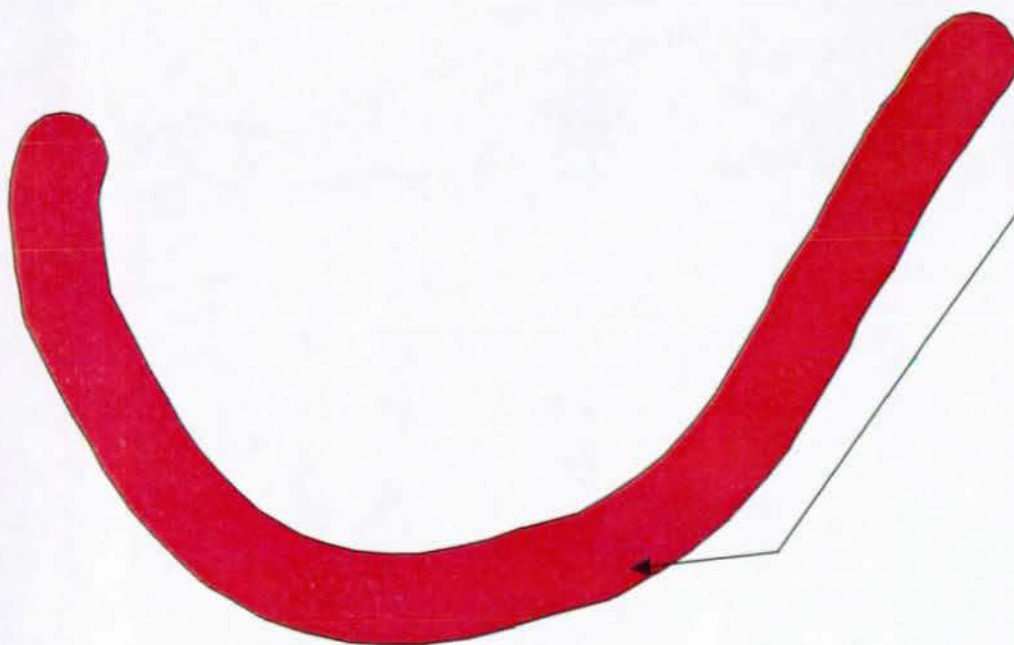
LINCOLN LOOP PARKING

ADJACENT TO RTE 108

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
916	990808	-	-	4,620	0.08	Fair	Asphalt

- Length and width will be used when applicable

- Lane miles are based on 11' lane widths



50 0 50 100 Feet



MAMMOTH CAVE NATIONAL PARK

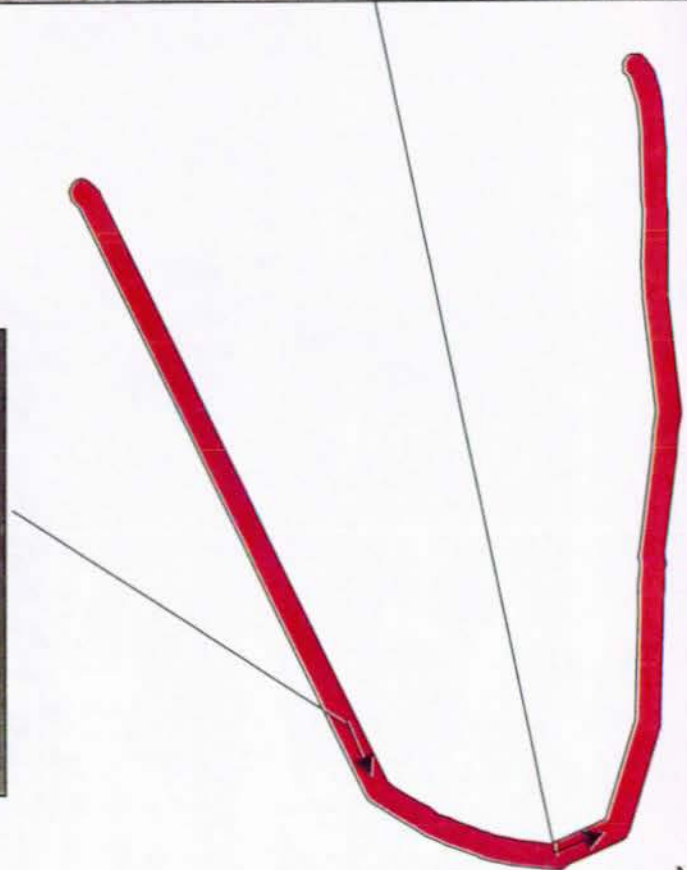
Route 917

MAPLE SPRINGS LOOP CG PARKING

ADJACENT TO RTE 110

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
917	990808	-	-	10,530	0.18	Poor	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



80 0 80 160 Feet



MAMMOTH CAVE NATIONAL PARK

Route 919

CEDAR SINK TRAILHEAD PARKING

ADJACENT TO RTE 102

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
919	990729	-	-	5,821	0.10	Excellent	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



40 0 40 80 Feet



MAMMOTH CAVE NATIONAL PARK

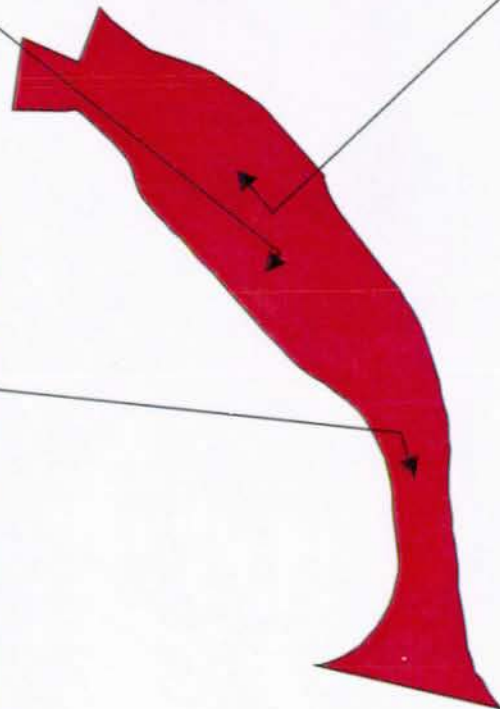
Route 920

WOODLAND COTTAGES PARKING

ADJACENT TO RTE 100

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
920	990802	-	-	9,800	0.17	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



40 0 40 80 Feet



MAMMOTH CAVE NATIONAL PARK

Route 921

DIAMOND CAVERNS PARKING

ADJACENT TO RTE 010

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
921	990730	-	-	12,191	0.21	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



100 0 100 200 Feet



MAMMOTH CAVE NATIONAL PARK

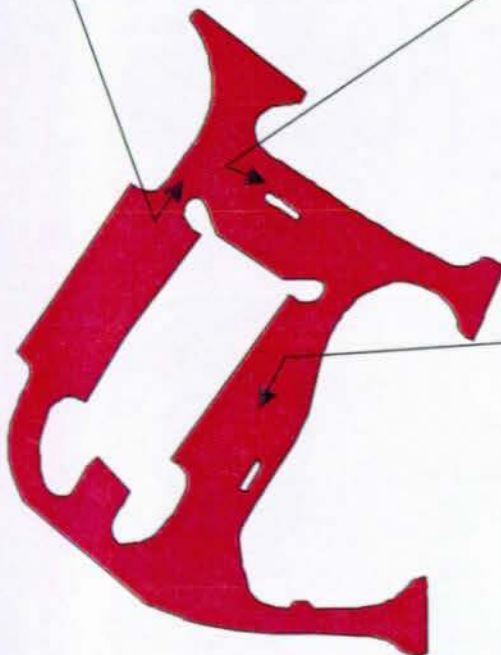
Route 922

SERVICES PARKING

ADJACENT TO RTE 010 AND RTE 504

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
922	990803	-	-	45,909	0.79	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



70 0 70 140 Feet



MAMMOTH CAVE NATIONAL PARK

Route 923

ELEVATOR PARKING

END OF RTE 016

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
923	990803	-	-	4,376	0.08	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



30 0 30 60 Feet



MAMMOTH CAVE NATIONAL PARK

Route 931

PICNIC GROUNDS PARKING

ADJACENT TO RTE 202

Route	Date	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition	Surface
931	990803	-	-	6,024	0.10	Good	Asphalt
a	990803	-	-	1,429	0.02	Good	Asphalt
b	990803	-	-	2,236	0.04	Good	Asphalt
c	990803	-	-	1,544	0.03	Good	Asphalt
d	990803	-	-	815	0.01	Good	Asphalt

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



100 0 100 200 Feet



PARKWIDE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	43	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	226	EACH
1333	DROP INLET	24	EACH
1340	CURB	6479	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	19541	LINEAR FEET
1542	GUARD WALL	121	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	2	EACH
5833	LIGHT POLE	4	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 010 : SOUTH ENTRANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	19	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	38	EACH
1333	DROP INLET	10	EACH
1340	CURB	1753	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	13802	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 013 : GREEN RIVER FERRY ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	10	EACH
1333	DROP INLET	1	EACH
1340	CURB	1104	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 014 : NORTH ENTRANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	2	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	37	EACH
1333	DROP INLET	3	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 015 : WEST ENTRANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	2	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	27	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	1505	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 016 : EAST ENTRANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	5	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	15	EACH
1333	DROP INLET	1	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	1	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 101 : FLINT RIDGE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	16	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	1	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 102 : CEDAR SINK ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	4	EACH
1333	DROP INLET	0	EACH
1340	CURB	1441	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	1420	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 103 : HOUCHINS FERRY ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	7	EACH
1333	DROP INLET	0	EACH
1340	CURB	211	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 106 : PARK RIDGE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	2	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	16	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 108 : OLLIE RIDGE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	2	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 110 : MAPLE SPRINGS LOOP

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	4	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	12	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	69	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 111 : CEDAR HILL CHURCH ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	4	EACH
1333	DROP INLET	1	EACH
1340	CURB	137	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 112 : SOUTH EAST ENTRANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	6	EACH
1333	DROP INLET	0	EACH
1340	CURB	1436	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	1816	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 115 : OLLIE RIDGE ROAD (GREAT ONYX JOB CORP CENTER)

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	1	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 200 : FROZEN NIAGARA ENTRANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	2	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	9	EACH
1333	DROP INLET	3	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	1	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 201 : CARMICHAEL ENTRANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	6	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 202 : PICNIC GROUNDS ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	0	EACH
1333	DROP INLET	1	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 203 : PICNIC SHELTER ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	1	EACH
1333	DROP INLET	0	EACH
1340	CURB	343	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	121	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 408 : HOTEL/PARK HQ SERVICES ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	1	EACH
1333	DROP INLET	2	EACH
1340	CURB	53	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 417 : PARK MAINTENANCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	3	EACH
1333	DROP INLET	2	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 418 : RESIDENCE LOOP ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	2	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 419 : RESIDENCE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	2	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 430 : MOTEL ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	1	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 601 : DOYLE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	2	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	634	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 602 : ZION CEMETARY ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	2	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	148	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Southeastern Region : MACA : 5530

ROUTE: 603 : SHORT CAVE ROAD

ICAP CODE	FEATURE	ROUTE TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT	2	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	148	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	3	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 010

SOUTH ENTRANCE ROAD

MILEPOST BEGIN	MILEPOST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
0.001	0.009		GUARDRAIL	
0.004	0.152	GUARDRAIL		
0.077	0.077		CULVERT	
0.157	0.174		GUARDRAIL	
0.159	0.159	INTERSECTION		RTE 602
0.163	0.291	GUARDRAIL		
0.179	0.179		INTERSECTION	RTE 601
0.183	0.206		GUARDRAIL	
0.192	0.192		DROP INLET	
0.355	0.603	GUARDRAIL		
0.357	0.407		CURB	
0.383	0.383		PAVED PARKING	RTE 911
0.484	0.525		GUARDRAIL	
0.484	0.525		PAVED DITCH	
0.518	0.518		DROP INLET	
0.633	0.681		GUARDRAIL	
0.661	0.773	GUARDRAIL		
0.775	1.139		GUARDRAIL	
0.878	0.890	PAVED DITCH		
0.895	1.009	GUARDRAIL		
1.058	1.094	GUARDRAIL		
1.096	1.265	PAVED DITCH		
1.151	1.198		PAVED DITCH	
1.185	1.185	INTERSECTION		RTE 603
1.205	1.205		INTERSECTION	RTE 921
1.251	1.251		PAVED PARKING	RTE 921
1.272	1.672	GUARDRAIL		
1.289	1.289		INTERSECTION	RTE 921
1.301	1.640		GUARDRAIL	
1.843	1.916		GUARDRAIL	
1.859	1.897	GUARDRAIL		
1.967	2.098		GUARDRAIL	
1.987	1.987	DROP INLET		
2.005	2.005	INTERSECTION		RTE 111
2.063	2.132	GUARDRAIL		
2.202	2.249	GUARDRAIL		
2.238	2.238		INTERSECTION	RTE 112
2.466	2.506	PAVED DITCH		
2.476	2.476		CULVERT	
2.558	2.649		PAVED DITCH	
2.759	2.759		CULVERT	
2.912	2.912		CULVERT	
2.950	2.950		CULVERT	
3.189	3.189		CULVERT	
3.308	3.308		CULVERT	
3.445	3.445		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 010

SOUTH ENTRANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
3.540	3.540		CULVERT	
3.618	3.618		CULVERT	
3.830	3.830		CULVERT	
4.056	4.056		CULVERT	
4.163	4.183	PAVED DITCH		
4.195	4.195		CULVERT	
4.386	4.386		CULVERT	
4.519	4.590	PAVED DITCH		
4.540	4.569		PAVED DITCH	
4.611	4.651	CURB		
4.615	4.615	INTERSECTION		RTE 909
4.617	4.617		CULVERT	
4.638	4.638	PAVED PARKING		RTE 909
4.655	4.655	INTERSECTION		RTE 910
4.704	4.798	CURB		
4.720	4.720		INTERSECTION	RTE 015
4.867	4.867		DROP INLET	
4.873	4.925		PAVED DITCH	
4.916	4.990	CURB		
4.916	4.990	PAVED DITCH		
4.917	4.917		DROP INLET	
4.975	4.975		CULVERT	
5.003	5.014		PAVED DITCH	
5.012	5.046	PAVED DITCH		
5.016	5.137		GUARDRAIL	
5.102	5.102		CULVERT	
5.186	5.217	PAVED DITCH		
5.220	5.220		CULVERT	
5.229	5.263	PAVED DITCH		
5.255	5.255	DROP INLET		
5.322	5.329		PAVED DITCH	
5.340	5.371	PAVED DITCH		
5.368	5.380		PAVED DITCH	
5.386	5.386		CULVERT	
5.548	5.657		GUARDRAIL	
5.566	5.566		CULVERT	
5.586	5.586		CULVERT	
5.717	5.766		CURB	
5.743	5.743		INTERSECTION	RTE 900
5.800	5.800	GUARDRAIL		
5.802	5.871		PAVED DITCH	
5.885	5.903		PAVED DITCH	
5.887	5.887		DROP INLET	
5.889	5.889	CULVERT		
5.944	5.944		DROP INLET	
6.029	6.029		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 010

SOUTH ENTRANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
6.094	6.153	PAVED DITCH		
6.110	6.110		CULVERT	
6.244	6.244		CULVERT	
6.244	6.244		DROP INLET	
6.323	6.349	PAVED DITCH		
6.341	6.341		CULVERT	
6.438	6.438		CULVERT	
6.457	6.457		INTERSECTION	RTE 016
6.457	6.457	INTERSECTION		RTE 201
6.478	6.478		CULVERT	
6.616	6.723		PAVED DITCH	
6.721	6.721		CULVERT	
6.771	6.834		PAVED DITCH	
6.795	6.795		CULVERT	
6.940	7.084	PAVED DITCH		
7.115	7.115		CULVERT	
7.151	7.151		CULVERT	
7.167	7.167		INTERSECTION	RTE 417
7.173	7.173	INTERSECTION		RTE 013
7.180	7.224	PAVED DITCH		
7.291	7.387	PAVED DITCH		
7.385	7.385		CULVERT	
7.416	7.503	PAVED DITCH		
7.485	7.485		CULVERT	
7.505	7.505		CULVERT	
7.553	7.553	INTERSECTION		RTE 504
7.570	7.570		CULVERT	
7.578	7.578	PAVED PARKING		RTE 922
7.592	7.592	INTERSECTION		RTE 922
7.630	7.727		PAVED DITCH	
7.728	7.728		CULVERT	
7.736	7.736		INTERSECTION	RTE 101
7.746	7.746	INTERSECTION		RTE 012
7.761	7.761		CULVERT	
7.791	7.791	DROP INLET		
7.820	7.845	CURB		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 013

GREEN RIVER FERRY ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.007	0.007		CULVERT	
0.008	0.022		PAVED DITCH	
0.315	0.315		CULVERT	
0.365	0.365		CULVERT	
0.391	0.391		CULVERT	
0.463	0.463		CULVERT	
0.476	0.685		CURB	
0.476	0.685		PAVED DITCH	
0.686	0.686		DROP INLET	
0.808	0.808		CULVERT	
0.884	0.884		CULVERT	
0.912	0.912		CULVERT	
1.006	1.006		CULVERT	
1.197	1.197		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 014

NORTH ENTRANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.055	0.055		CULVERT	
0.093	0.093		CULVERT	
0.116	0.116		CULVERT	
0.154	0.154		CULVERT	
0.183	0.183		CULVERT	
0.211	0.211		CULVERT	
0.252	0.252		CULVERT	
0.290	0.290		CULVERT	
0.342	0.342		CULVERT	
0.384	0.384		CULVERT	
0.426	0.426		CULVERT	
0.498	0.498		CULVERT	
0.560	0.560		CULVERT	
0.633	0.633		CULVERT	
0.686	0.686		CULVERT	
0.747	0.747		CULVERT	
0.828	0.828		CULVERT	
0.880	0.880		CULVERT	
1.128	1.128		CULVERT	
1.263	1.263		CULVERT	
1.563	1.563		CULVERT	
1.668	1.668		CULVERT	
1.864	1.864		CULVERT	
2.066	2.066		CULVERT	
2.101	2.101	INTERSECTION		RTE 110
2.111	2.111		CULVERT	
2.113	2.113	DROP INLET		
2.114	2.114	DROP INLET		
2.247	2.247		CULVERT	
2.290	2.290		CULVERT	
2.318	2.318		CULVERT	
2.469	2.469		CULVERT	
2.665	2.665		CULVERT	
2.834	2.834		CULVERT	
3.087	3.087	INTERSECTION		RTE 110
3.107	3.107		CULVERT	
3.216	3.216		CULVERT	
3.273	3.273		CULVERT	
3.492	3.492		CULVERT	
3.671	3.671		CULVERT	
3.720	3.720		DROP INLET	
3.778	3.778		CULVERT	
4.195	4.195		UNPAVED PARKING	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 015

WEST ENTRANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.014	0.014		CULVERT	
0.116	0.116		CULVERT	
0.221	0.221		CULVERT	
0.278	0.278		CULVERT	
0.440	0.440		CULVERT	
0.526	0.526		CULVERT	
0.543	0.589		PAVED DITCH	
0.589	0.589		CULVERT	
0.614	0.709		PAVED DITCH	
0.711	0.711		CULVERT	
0.847	0.887		PAVED DITCH	
0.889	0.889		CULVERT	
0.929	1.135		GUARDRAIL	
1.060	1.060		CULVERT	
1.144	1.235		PAVED DITCH	
1.256	1.335		GUARDRAIL	
1.305	1.305		PAVED PARKING	RTE 912
1.521	1.521		CULVERT	
1.709	1.709		INTERSECTION	RTE 102
1.794	1.794		CULVERT	
2.145	2.157		PAVED DITCH	
2.146	2.146		CULVERT	
2.562	2.562		CULVERT	
2.658	2.658		CULVERT	
2.659	2.659		UNPAVED PARKING	
2.694	2.727		PAVED DITCH	
2.773	2.773		CULVERT	
2.854	2.888		PAVED DITCH	
2.927	3.003		PAVED DITCH	
2.928	2.928		CULVERT	
3.252	3.376		PAVED DITCH	
3.376	3.376		CULVERT	
3.426	3.426		CULVERT	
3.589	3.589		CULVERT	
3.660	3.660		CULVERT	
3.886	3.886		CULVERT	
4.287	4.287		CULVERT	
4.463	4.463		CULVERT	
4.557	4.557		CULVERT	
4.823	4.823		CULVERT	
4.824	4.966		PAVED DITCH	
5.017	5.017		CULVERT	
5.068	5.068		INTERSECTION	RTE 010

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 016

EAST ENTRANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.151	0.151		PAVED PARKING	RTE 913
0.188	0.188		CULVERT	
0.314	0.314		INTERSECTION	RTE 106
0.455	0.455		CULVERT	
0.616	0.616		CULVERT	
0.637	0.660	RETAINING WALL		
0.678	0.678		UNPAVED PARKING	RTE 934
0.802	0.802		CULVERT	
1.123	1.123		CULVERT	
1.126	1.126	INTERSECTION		
1.229	1.229	INTERSECTION		RTE 507
1.347	1.347		CULVERT	
1.357	1.357	INTERSECTION		
1.427	1.427		CULVERT	
1.621	1.621		CULVERT	
1.822	1.822		CULVERT	
1.908	1.908		CULVERT	
1.910	1.983	PAVED DITCH		
2.096	2.096		CULVERT	
2.232	2.232		CULVERT	
2.364	2.404	PAVED DITCH		
2.397	2.422		PAVED DITCH	
2.406	2.406	DROP INLET		
2.422	2.422		CULVERT	
2.435	2.435		INTERSECTION	RTE 420
2.634	2.753	PAVED DITCH		
2.677	2.677		CULVERT	
2.894	2.894		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 101

FLINT RIDGE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.051	0.051		CULVERT	
0.147	0.147		CULVERT	
0.185	0.185		CULVERT	
0.237	0.243		RETAINING WALL	
0.238	0.238		CULVERT	
0.243	0.655		PAVED DITCH	
0.306	0.306		CULVERT	
0.609	0.609		CULVERT	
0.656	3.061		PAVED DITCH	
0.777	0.777		CULVERT	
0.779	0.779		CULVERT	
0.792	0.847	PAVED DITCH		
0.860	0.887	PAVED DITCH		
0.865	0.865		CULVERT	
1.043	1.043		CULVERT	
1.325	1.325		CULVERT	
1.350	1.350		CULVERT	
1.689	1.689		CULVERT	
2.006	2.006		CULVERT	
3.645	3.645		INTERSECTION	RTE 106
3.965	3.965		CULVERT	
4.360	4.360		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 102

CEDAR SINK ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.039	0.065		PAVED DITCH	
0.071	0.071		CULVERT	
0.088	0.182		PAVED DITCH	
0.187	0.225		GUARDRAIL	
0.218	0.366	PAVED DITCH		
0.242	0.351		PAVED DITCH	
0.353	0.400		GUARDRAIL	
0.367	0.367		CULVERT	
0.418	0.462	PAVED DITCH		
0.442	0.483		GUARDRAIL	
0.464	0.464		CULVERT	
0.480	0.557	GUARDRAIL		
0.571	0.669		PAVED DITCH	
0.591	0.591	PAVED PARKING		RTE 919
0.598	0.677	PAVED DITCH		
0.742	1.015		CURB	
0.742	1.015		PAVED DITCH	
0.742	0.838	PAVED DITCH		
0.860	0.926	GUARDRAIL		
0.927	1.056	PAVED DITCH		
1.213	1.228		PAVED DITCH	
1.228	1.228		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 103

HOUCHINS FERRY ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.178	0.178		CULVERT	
0.280	0.320	CURB		
0.280	0.320	PAVED DITCH		
0.285	0.285		CULVERT	
0.346	0.346		CULVERT	
0.456	0.456		CULVERT	
0.592	0.592		CULVERT	
0.712	0.712	CULVERT		
0.976	0.976		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 106

PARK RIDGE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.230	0.230		CULVERT	
0.373	0.373		CULVERT	
0.455	0.455		CULVERT	
0.512	0.512		CULVERT	
0.576	0.576		CULVERT	
0.666	0.666		CULVERT	
0.703	0.703		CULVERT	
0.799	0.799		CULVERT	
0.840	0.840		CULVERT	
0.886	0.886		CULVERT	
0.918	0.918		CULVERT	
1.106	1.106		CULVERT	
1.266	1.266		INTERSECTION	R. HUNTER ROAD
1.350	1.350		CULVERT	
2.844	2.844		INTERSECTION	HAMILTON VALLEY ROAD
2.929	2.929		CULVERT	
3.002	3.002		CULVERT	
3.132	3.132		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 108

OLLIE RIDGE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.103	0.103	INTERSECTION		UNPAVED PART OF RTE 103N
0.106	0.106	CULVERT		
0.175	0.175	CULVERT		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 110

MAPLE SPRINGS LOOP

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.008	0.008		CULVERT	
0.231	0.231		CULVERT	
0.524	0.524		CULVERT	
0.639	0.639		CULVERT	
0.810	0.810		CULVERT	
0.931	0.931		CULVERT	
1.015	1.015		INTERSECTION	GRAVEL CAMPING LOOP
1.031	1.031		INTERSECTION	GRAVEL CAMPING LOOP
1.064	1.064		INTERSECTION	GRAVEL CAMPING LOOP
1.113	1.113		INTERSECTION	GRAVEL CAMPING LOOP
1.279	1.279		CULVERT	
1.295	1.295		UNPAVED PARKING	
1.352	1.352		UNPAVED PARKING	
1.363	1.363		UNPAVED PARKING	
1.491	1.491		CULVERT	
1.527	1.540		GUARDRAIL	
1.533	1.533		CULVERT	
1.649	1.649		UNPAVED PARKING	
1.769	1.769		CULVERT	
1.778	1.778		CULVERT	
1.984	1.984		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 111

CEDAR HILL CHURCH ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.006	0.006		CULVERT	
0.009	0.035	CURB		
0.009	0.035	PAVED DITCH		
0.011	0.011	DROP INLET		
0.288	0.288	PAVED PARKING		
0.308	0.308	PAVED PARKING		
0.310	0.310		CULVERT	
0.458	0.458		CULVERT	
0.462	0.462	CULVERT		
0.820	0.820	INTERSECTION		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 112

SOUTH EAST ENTRANCE ROAD

MILEPOST		FEATURE	FEATURE	COMMENT
BEGIN	END	DESCRIPTION LEFT	DESCRIPTION RIGH	
0.080	0.080		CULVERT	
0.188	0.225		GUARDRAIL	
0.242	0.353		PAVED DITCH	
0.273	0.273		CULVERT	
0.311	0.277	PAVED DITCH		
0.354	0.400		GUARDRAIL	
0.363	0.363		CULVERT	
0.373	0.373		CULVERT	
0.439	0.484		GUARDRAIL	
0.440	0.440	PAVED PARKING		
0.461	0.461		PAVED PARKING	
0.574	0.678		GUARDRAIL	
0.664	0.776	GUARDRAIL		
0.743	1.015		PAVED DITCH	
0.743	1.015		CURB	
0.901	0.901		CULVERT	
1.213	1.230		PAVED DITCH	
1.230	1.230		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 115

OLLIE RIDGE ROAD (GREAT ONYX JOB CORP CENTER)

MILEPOST		FEATURE	FEATURE	COMMENT
BEGIN	END	DESCRIPTION LEFT	DESCRIPTION RIGH	
0.429	0.429	CULVERT		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 200

FROZEN NIAGARA ENTRANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.039	0.039		CULVERT	
0.105	0.105		CULVERT	
0.163	0.218	PAVED DITCH		
0.209	0.210		PAVED DITCH	
0.209	0.209		CULVERT	
0.313	0.350	PAVED DITCH		
0.337	0.337		CULVERT	
0.388	0.429	PAVED DITCH		
0.421	0.421		CULVERT	
0.433	0.433	INTERSECTION		BUS TURN-AROUND LOOP
0.449	0.449	INTERSECTION		BUS TURN-AROUND LOOP
0.489	0.632	PAVED DITCH		
0.496	0.496	DROP INLET		
0.537	0.595		PAVED DITCH	
0.620	0.620		CULVERT	
0.635	0.635		CULVERT	
0.734	0.782	PAVED DITCH		
0.767	0.767		CULVERT	
0.870	0.919	PAVED DITCH		
0.911	0.911		CULVERT	
0.955	0.974	PAVED DITCH		
0.976	0.976	DROP INLET		
0.993	1.014	PAVED DITCH		
1.059	1.059		LIGHT POLE	
1.071	1.071	DROP INLET		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 201

CARMICHAEL ENTRANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.000	0.093	PAVED DITCH		
0.039	0.039		INTERSECTION	
0.094	0.175	PAVED DITCH		
0.105	0.105		CULVERT	
0.337	0.337		CULVERT	
0.421	0.421		CULVERT	
0.536	0.547	PAVED DITCH		
0.548	0.713	PAVED DITCH		
0.620	0.620		CULVERT	
0.657	0.657		PAVED DITCH	
0.719	0.719		CULVERT	
0.752	0.867	PAVED DITCH		
0.767	0.911		PAVED DITCH	
0.797	0.835		PAVED DITCH	
0.865	0.865		CULVERT	
1.059	0.657		PAVED DITCH	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 202

PICNIC GROUNDS ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.023	0.023		GATE	
0.043	0.043	DROP INLET		
0.043	0.043	INTERSECTION		
0.104	0.104	PAVED PARKING		
0.109	0.109	PAVED PARKING		
0.190	0.190		PAVED PARKING	
0.205	0.205		PAVED PARKING	
0.227	0.227		UNPAVED PARKING	
0.371	0.371		PAVED PARKING	
0.387	0.387		PAVED PARKING	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 203

PICNIC SHELTER ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.010	0.038		CURB	
0.011	0.034	GUARDWALL		
0.023	0.023		PAVED PARKING	
0.026	0.026	PAVED PARKING		
0.080	0.080	UNPAVED PARKING		
0.086	0.123		CURB	
0.089	0.089	UNPAVED PARKING		
0.090	0.090		PAVED PARKING	
0.116	0.116		PAVED PARKING	
0.174	0.174		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 408

HOTEL/PARK HQ SERVICES ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.007	0.007		DROP INLET	
0.009	0.017		CURB	
0.014	0.014		CULVERT	
0.019	0.047		PAVED DITCH	
0.023	0.023		PAVED PARKING	
0.048	0.048		DROP INLET	
0.051	0.051		PAVED PARKING	
0.065	0.067		CURB	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 417

PARK MAINTENANCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.051	0.051		CULVERT	
0.110	0.110		DROP INLET	
0.172	0.172		CULVERT	
0.172	0.172	INTERSECTION		
0.186	0.186	PAVED PARKING		RTE 418
0.319	0.319		CULVERT	
0.321	0.321	DROP INLET		
0.336	0.336		PAVED PARKING	
0.347	0.347		PAVED PARKING	
0.376	0.376		PAVED PARKING	
0.377	0.377	PAVED PARKING		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 418

RESIDENCE LOOP ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.044	0.044		INTERSECTION	RTE 419
0.078	0.078		CULVERT	
0.083	0.083		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 419

RESIDENCE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.005	0.005		CULVERT	
0.014	0.014		PAVED PARKING	
0.053	0.053	CULVERT		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 430

MOTEL ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.084	0.084		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 601

DOYLE ROAD

MILEPOST		FEATURE	FEATURE	COMMENT
BEGIN	END	DESCRIPTION LEFT	DESCRIPTION RIGH	
0.004	0.056	GUARDRAIL		
0.010	0.029		GUARDRAIL	
0.032	0.081		GUARDRAIL	
0.096	0.096	CULVERT		
0.152	0.152		CULVERT	

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 602

ZION CEMETARY ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.005	0.033		GUARDRAIL	
0.012	0.012	CULVERT		
0.136	0.136	CULVERT		

ROUTE MAINTENANCE FEATURES ROAD LOG
MAMMOTH CAVE NATIONAL PARK

ROUTE 603

SHORT CAVE ROAD

MILEPOST		FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGH	COMMENT
BEGIN	END			
0.004	0.032	GUARDRAIL		
0.007	0.007		CULVERT	
0.020	0.020	LIGHT POLE		
0.052	0.052	LIGHT POLE		
0.086	0.086	LIGHT POLE		
0.098	0.098		CULVERT	

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 010 – SOUTH ENTRANCE RD

DATE: 990809



Photo # 01. Sample unit 1 – typical pavement section.



Photo # 02. Sample unit 2 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 010 – SOUTH ENTRANCE RD

DATE: 990809



Photo # 03. Sample unit 8 – typical pavement section.



Photo # 04. Sample unit 9 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 010 – SOUTH ENTRANCE RD

DATE: 990809



Photo # 05. Sample unit 10 – typical pavement section.



Photo # 06. Sample unit 11 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 012 – HOTEL ENTRANCE RD;

ROUTE: 013 – GREEN RIVER FERRY RD (STOCKHOLM)

DATE: 990803; 990807



Photo # 07. Sample unit 1 – typical pavement section.



Photo # 08. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 013 – GREEN RIVER FERRY RD (STOCKHOLM)

DATE: 990807



Photo # 09. Sample unit 2 – typical pavement section.



Photo # 10. View of road toward river.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 014 – NORTH ENTRANCE RD
DATE: 990808



Photo # 11. Sample unit 1 – typical pavement section.



Photo # 12. Sample unit 2 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 014 – NORTH ENTRANCE RD;
ROUTE: 015 – WEST ENTRANCE RD
DATE: 990808; 990807



Photo # 13. View of road toward ferry.



Photo # 14. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 015 – WEST ENTRANCE RD
DATE: 990807



Photo # 15. Sample unit 3 – typical pavement section.



Photo # 16. Sample unit 4 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 016 – EAST ENTRANCE RD

DATE: 990804



Photo # 17. Pavement at MP 0.3.



Photo # 18. Pavement at MP 1.1.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 101 – FLINT RIDGE RD

DATE: 990807



Photo # 19. Pavement near beginning of road.



Photo # 20. Typical pavement section near hill.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 101 – FLINT RIDGE RD;

ROUTE : 102 - CEDAR SINK RD

DATE: 990807



Photo # 21. View of road near hill.



Photo # 22. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 102 – CEDAR SINK ROAD;
ROUTE: 103n – HOUCHINS FERRY RD NORTH
DATE: 990807; 990808



Photo # 23. View of curb and ditch along the road.



Photo # 24. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 103 – HOUCHINS FERRY ROAD SOUTH;

ROUTE: 106 – PARK RIDGE ROAD

DATE: 990805; 990807



Photo # 25. View of road towards ferry.



Photo # 26. Northbound view of road at approximately 1.8 miles.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 106 – PARK RIDGE ROAD;

ROUTE: 108 – OLLIE ROAD

DATE: 990807; 990808



Photo # 27. Southbound view of road at approximately 1.8 miles.



Photo # 28. Beginning of road.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK

ROUTE: 108 – OLLIE RD;

ROUTE: 110 – MAPLE SPRINGS LOOP

DATE: 990808



Photo # 29. Typical pavement section.



Photo # 30. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 110 – MAPLE SPRINGS LOOP;
ROUTE: 111 – CEDAR SINK ROAD
DATE: 990808; 990807



Photo # 31. Sample unit 2 – typical pavement section.



Photo # 32. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 111 – CEDAR SINK ROAD;
ROUTE: 112 – SOUTHEAST ENTRANCE ROAD
DATE: 990807



Photo # 33. Sample unit 2 – typical pavement section.



Photo # 34. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 115 – OLLIE ROAD (ONYX JOB CORP CENTER)
DATE: 990808



Photo # 35. Typical pavement section.



Photo # 36. Road near entrance to Onyx Job Corp Center.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 200 – FROZEN NIAGARA ENTRANCE RD;
ROUTE: 201 - CARMICHAEL ENTRANCE RD
DATE: 990804



Photo #37. Pavement at MP 0.4.



Photo #38. Pavement at MP 0.1.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 201 – CARMICHAEL ENTRANCE RD;
ROUTE: 202 – PICNIC GROUNDS RD
DATE: 990804; 990803



Photo # 39. Pavement at MP 0.84.



Photo # 40. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 203 – PICNIC SHELTER RD;
ROUTE: 417 – PARK MAINTENANCE RD
DATE: 990803; 990807



Photo # 41. Section 1 – typical pavement section.



Photo # 42. Section 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 418 – RESIDENCE LOOP RD;
ROUTE: 419 – RESIDENCE RD
DATE: 990807



Photo # 43. Section 1 – typical pavement section.



Photo # 44. Section 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 430 – MOTEL ROAD;
ROUTE: 601 – DOYLE ROAD
DATE: 990803; 990807



Photo # 45. Section 1 – typical pavement section.



Photo # 46. Sample unit 1 – typical pavement section.

PHOTOGRAPHIC SHEET

PARK: MAMMOTH CAVE NATIONAL PARK
ROUTE: 602 – ZION CEMETARY RD;
ROUTE: 603 – SHORT CAVE RD
DATE: 990807



Photo # 47. Section 1 – typical pavement section.



Photo # 48. Section 1 – typical pavement section.

XI. UNPAVED ROUTES

Unpaved routes are not addressed in this report at this time. Section "IV. ROUTE INVENTORY" includes a current register of all unpaved routes (name, number, estimated mileage to the nearest 0.01, functional class, number of lanes, and termini description). Any further information will be added post 1997-99 data collection. Data was collected for unpaved routes in numerous parks during the '94-'96 data collection cycle. This data (digital images, GPS traces, features inventory, and condition assessments) may be processed in the future.

MAMMOTH CAVE NATIONAL PARK - MACA - 5530
R.O.W. DIGITAL IMAGE INDEX

Digital images for Mammoth Cave National Park are unavailable.

**GLOSSARY OF TERMS
AND
ABBREVIATIONS**

<u>TERM OR ABBREVIATION</u>	<u>DESCRIPTION OR DEFINITION</u>
AADT	Annually adjusted average daily traffic. Average daily traffic for the term period comprising 80% of annual visitation.
CRS	Condition Rating Sheet. Index rating for pavement distresses, roadway condition and cross section information.
DCR	Drainage Condition Rating
Drainage Condition Rating	Rating from Poor to Excellent based on visual observations.
EXCELLENT	Excellent rating.
Func Class	Functional Class. See Table 1 in appendix.
FAIR	Fair rating.
GOOD	Good rating.
IRI	International Roughness Index
Lane	The portion of roadway from centerline to fogline, or edge of pavement if no fog line exists.
MACA	Mammoth Cave National Park
N	Not public access.
NA	Not applicable or not available
P	Public access.
Pavement Section	A length of pavement not exceeding one mile which is characteristically homogenous in nature.
Pavement Width	The entire portion of roadway from edge of pavement to edge of pavement.
PCR	Pavement condition rating. Numerical rating form 0 (failed) to 100 (excellent) based on the surface condition and the roughness of the road.

POOR

Poor rating.

RI

Roughness Index.

RTE #

Route number.

SADT

Seasonal Average Daily Traffic. Average daily traffic for the total "season".

SCR

Surface Condition Rating. Numerical rating from 0 (failed) to 100 (excellent). Based on the extent of alligator cracking, patching, longitudinal cracking, rutting and transverse cracking.

Shoulder Condition
Rating

Rating from Poor (failed) to Excellent. Based on visual observations of the adequacy of the shoulder. Also applies to curb and gutter.

Sample Unit

A 200 ft. segment of the primary lane which is surveyed for pavement distresses and which represents the entire pavement section.

Shoulder Width

From fogline (if existing) or pavement edge to shoulder hinge point.

SF

Square Feet

SU

Sample Unit

GENERAL PARK ROAD FUNCTIONAL CLASSIFICATION TABLE

Class I	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. All other FC 1 routes have two digit numbers.
Class II	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 III	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 IV	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 III and IV have the same route numbers because, historically, they were numbered similarly.
Class V	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 VI	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 V and VI 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 VI rather than FC V.
Class VII	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 VIII	City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

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

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

DESCRIPTION OF RATING SYSTEM

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire.
- **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.
- **Rutting** - surface depressions in the wheel paths.

In addition, **Roughness** has been collected and is used in the PCR formula.

A Rating Index value is calculated for each of these at the 200 foot sample unit interval.

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 = $100 - [40 * (low/28.69 + medium/14.25 + high/3.6)]$

Patching Index = $100 - [40 * (\%patching / 80)]$

Rutting Index: Asphalt Surface = $[13.33 * (deepest\ rut)^2] - [86.67 * deepest\ rut] + 100$

Chipseal (1-5 yrs. old) = $[9.53 * (deepest\ rut)^2] - [86.67 * deepest\ rut] + 108.57$

Chipseal (>5 yrs. old) = $[3.85 * (deepest\ rut)^2] - [83.46 * deepest\ rut] + 116.53$

Roughness Index (RI) = $29 * [5 * e^{(-0.0041 * average\ IRI)}]$

These 200 foot sample unit index values are then applied to homogeneous sections of one mile or less for the section-by-section Rating Indexes, Surface Condition Rating (SCR) and Pavement Condition Rating (PCR).

Surface Condition Rating (SCR) = $100 - [40 * (LOW\ ALLIGATOR\ CRACKING/70 + MEDIUM\ ALLIGATOR\ CRACKING/30 + HIGH\ ALLIGATOR\ CRACKING/10 + PATCHING/80 + LOW\ TRANSVERSE\ CRACKING/28.69 + MEDIUM\ TRANSVERSE\ CRACKING/14.25 + HIGH\ TRANSVERSE\ CRACKING/3.6 + LOW\ LONGITUDINAL\ CRACKING/350 + MEDIUM\ LONGITUDINAL\ CRACKING/200 + HIGH\ LONGITUDINAL\ CRACKING/75 + MAXIMUM\ RUT\ VALUE)]$

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

NOTE: Collection of roughness data is dependant on the data collection vehicle traveling at a minimum speed of 22 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.

Drainage Condition Rating Definitions

- Excellent:** No drainability problem. If funding were available for pavement maintenance, no funds would be required for drainage concerns.
- Good:** Minimal overall drainability problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.
- Fair:** Moderate problems with drainability that needs correcting before it deteriorates to a poor rating. If funding were available for pavement maintenance in this section, 25% to 50% is estimated to correct deficiencies.
- Poor:** Severe 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 Rating Criteria

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

A. Excellent Drainability

All water clears the road prism adequately without any chance of base saturation.

- Pavement drains without interruption.
- Curbs are flawless with the exception of minor cracking.
- Down drains are secure and placed properly.
- Drop inlets are at the correct grade and location with no deficiencies.
- Culverts are adequate in numbers, size, and condition.
- Ditches may be constructed of asphalt and are sufficient to carry required volumes of water.

B. Good Drainability

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

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

C. Fair Drainability

Some areas have questionable ability for the water to clear the road prism with an uncomfortable concern for base saturation.

- Pavement shows moderate flaws, such as rutting, and other irregularities that would hold minor amounts of water, interrupting the flow of water.
- Shoulder grades restrict the flow of water, however, water exits after some ponding.
- Down drains show evidence that limited water is causing erosion as a result of deterioration, or other similar flaws (e.g. missing asphalt that guides water to down drain).
- Drop inlet encasements are cracked, iron is bent, or are misaligned to cause limited water to escape,
- Culvert headwalls show moderate damage or are inadequate, the exit shows some damage to fill areas, or entry asphalt is moderately damaged.
- Ditches have some permeable material, unmovable obstructions to interrupt flow obviously hard to maintain due to inconsistencies, or have a less than desirable area to carry required volumes of water.

D. Poor Drainability

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

- Pavement grade is irregular and holds dangerous amounts of water (hydroplaning is a concern), or shows massive alligator cracking.
- Shoulder design induces ponding that encroaches on the pavement (drivers try to avoid ponds).
- Portions of curbs are missing, allowing water to escape causing erosion.
- Drop inlets, due to various reasons, are only able to drain 50% or less efficiently.
- Down drains show signs of water exiting in areas by the down drain causing erosion.
- Culverts are functionally deficient including size, installation, location, or grade giving water opportunity to saturate the road base.
- 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

Excellent: Shoulder is new or under construction. It meets or exceeds standards. The curb is new.

Good: The shoulder is below standard width for posted speed and grading is required. The curb is functional.

Fair: There are variations in the shoulder, irregular width with material replacement required. The curb is in need of repairs or adjustments.

Poor: There isn't any shoulder, erosion has removed it. The curb needs replacement.

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 this criteria should give a feel for where the flaws would apply in the ratings.

The overall shoulder condition rating for a section is determined by the lowest individual rating for any one of the above categories (width, rutting, cracking, erosion, drop-off, and curbs).

A. Excellent Shoulders

- If shoulder is unpaved there will not be any drop-offs or erosion.
- If shoulder is paved there isn't any rutting, cracking, or erosion.
- Curbs are flawless with the exception of minor cracking and no erosion behind curb.

B. Good Shoulders

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

C. Fair Shoulder

- If shoulder is unpaved drop-offs are from 1" to 4" and replacement of material required.
- If shoulder is paved rut depth is from 1/2" to 1". Open cracks are present but less than 1/4" deep, replacement of material is needed from erosion.
- If curbs are present they need repairs, and there is erosion behind the curb.

D. Poor Shoulder

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