

# The Road Inventory of Mammoth Cave National Park MACA – 5530 Cycle 4



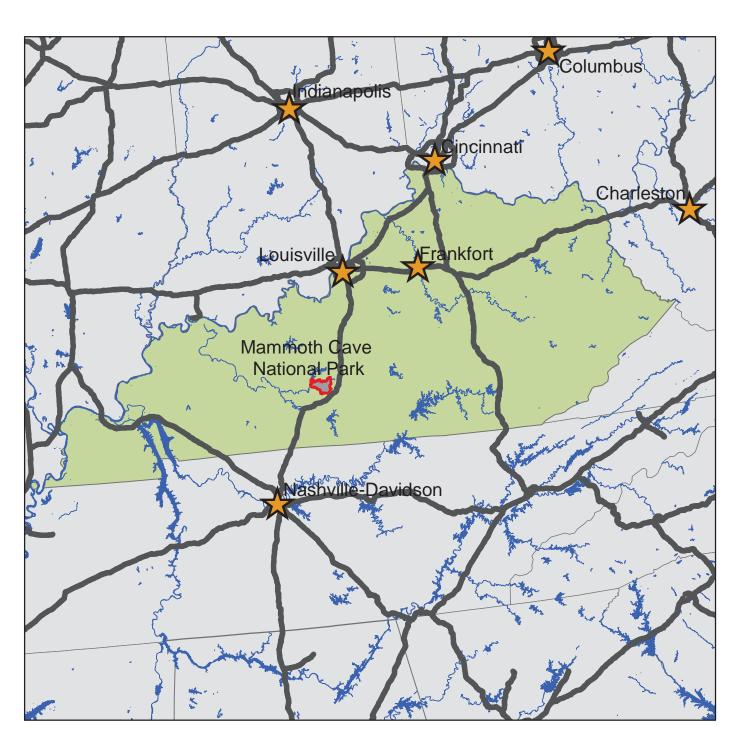




Prepared By: Federal Highway Administration Road Inventory Program Cycle 4



## Mammoth Cave National Park in Kentucky





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#### Mammoth Cave National Park



**Section 1 Introduction** 

#### INTRODUCTION

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

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

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

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

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

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

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

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

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

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

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

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

The FHWA RIP Team

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

#### Mammoth Cave National Park

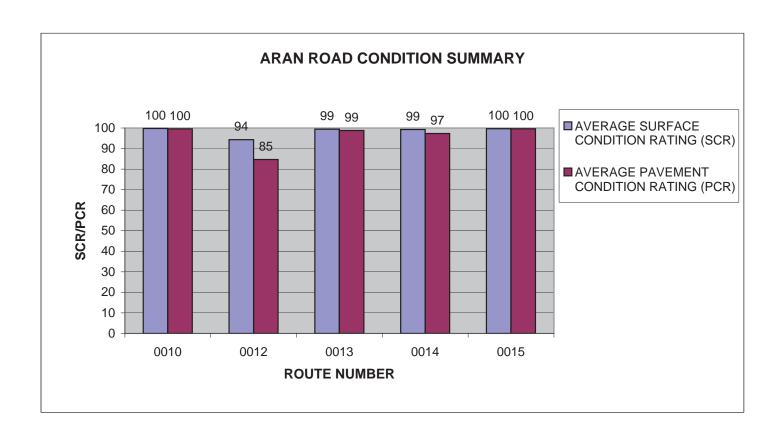


Section 2
Park Summary Information

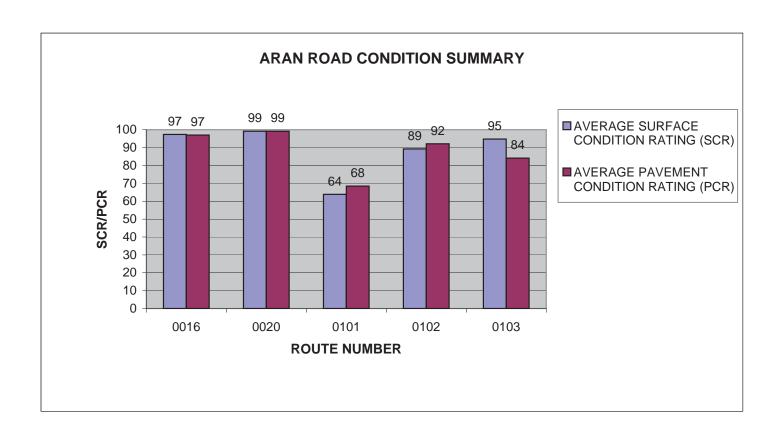
### MACA: PAVED ROUTE MILES AND PERCENTAGES BY FUNCTIONAL CLASS AND PCR

		P	avement C	Condition R	Rating (PCF	₹)			
	Poor (	<=60)	Fair (6	1-84)	Good	(85-94)	Excellent	TOTAL	
F.C.	MILES	%	MILES	%	MILES	%	MILES	%	MILES
1	0.07	0.18%	0.38	0.96%	1.41	3.55%	19.89	50.03%	21.75
2	3.77	9.48%	3.53	8.88%	2.90	7.29%	2.23	5.61%	12.43
3	0.68	1.71%	1.82	4.58%	0.88	2.21%	1.04	2.62%	4.42
4									
5	0.42	1.06%	0.40	1.01%	0.24	0.60%	0.10	0.25%	1.16
6									
7									
8									
Totals	4.94	12.42%	6.13	15.42%	5.43	13.66%	23.26	58.50%	39.76

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH		AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0010	MAMMOTH CAVE PARKWAY	1	5.74	ASPHALT	100	100
0012	HOTEL ENTRANCE ROAD	1	0.12	ASPHALT	94	85
0013	GREEN RIVER FERRY ROAD SOUTH	1	1.31	ASPHALT	99	99
0014	GREEN RIVER FERRY ROAD NORTH	1	4.18	ASPHALT	99	97
0015	BROWNSVILLE ROAD	1	5.10	ASPHALT	100	100

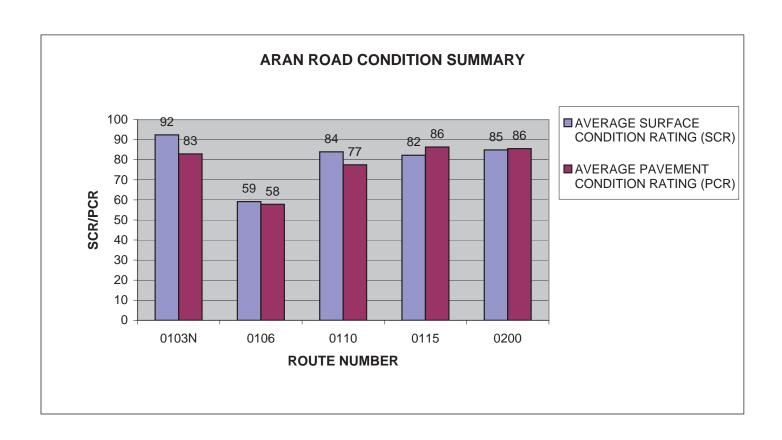


ROUTE		FUNCT	ROUTE	SURFACE	AVERAGE SURFACE CONDITION	AVERAGE PAVEMENT CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0016	CAVE CITY ROAD	1	3.02	ASPHALT	97	97
0020	PARK CITY ROAD	1	2.28	ASPHALT	99	99
0101	FLINT RIDGE ROAD	2	3.63	ASPHALT	64	68
0102	CEDAR SINK ROAD	2	1.22	ASPHALT	89	92
0103	HOUCHINS FERRY ROAD SOUTH	2	1.07	ASPHALT	95	84

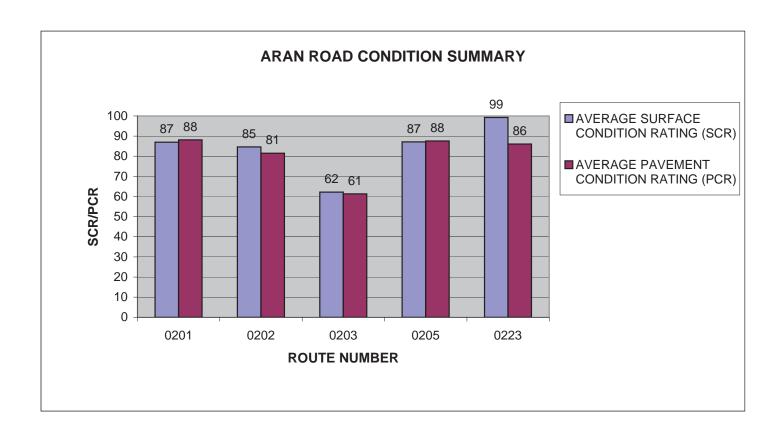


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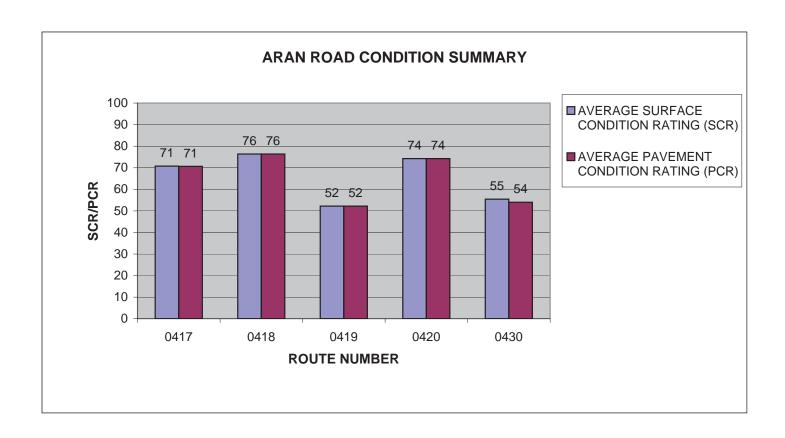
					AVERAGE SURFACE	AVERAGE PAVEMENT
ROUTE		FUNCT	ROUTE	SURFACE	CONDITION	CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0103N	HOUCHINS FERRY ROAD NORTH	2	5.33	ASPHALT	92	83
0106	PARK RIDGE ROAD	2	3.61	ASPHALT	59	58
0110	MAPLE SPRINGS LOOP	3	1.96	ASPHALT	84	77
	OLLIE RIDGE ROAD (GREAT ONYX JOB CORP					_
0115	CENTER)	3	0.29	ASPHALT	82	86
0200	FROZEN NIAGARA ENTRANCE ROAD	2	1.1	ASPHALT	85	86



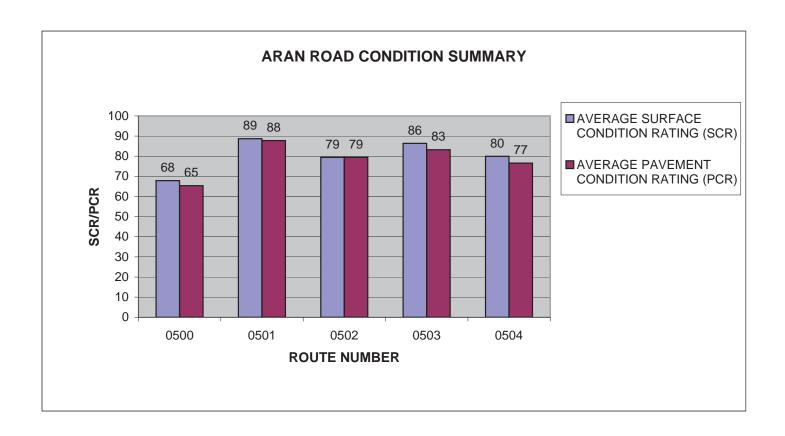
ROUTE		FUNCT	ROUTE	SURFACE	AVERAGE SURFACE CONDITION	AVERAGE PAVEMENT CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0201	CARMICHAEL ENTRANCE ROAD	2	1.04	ASPHALT	87	88
0202	VISITOR CENTER PICNIC GROUNDS ROAD	3	0.45	ASPHALT	85	81
0203	VISITOR CENTER PICNIC SHELTER ROAD	3	0.19	ASPHALT	62	61
0205	HQ CAMPGROUND ACCESS ROAD	2	0.18	ASPHALT	87	88
0223	MAPLE SPRINGS LOOP CAMPGROUND	3	0.25	ASPHALT	99	86



ROUTE		FUNCT	ROUTE	SURFACE	AVERAGE SURFACE CONDITION	AVERAGE PAVEMENT CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0417	PARK MAINTENANCE ROAD	5	0.58	ASPHALT	71	71
0418	RESIDENCE LOOP ROAD	5	0.32	ASPHALT	76	76
0419	SUPERINTENDENT OFFICE ROAD	5	0.1	ASPHALT	52	52
0420	ELEVATOR SHAFT ROAD	2	0.08	ASPHALT	74	74
0430	SUNSET LODGE ROAD	3	0.09	ASPHALT	55	54



ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH		AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0500	NEW ENTRANCE LOOP	5	0.16	ASPHALT	68	65
0501	VISITOR CENTER CAMPGROUND LOOP D	3	0.26	ASPHALT	89	88
0502	VISITOR CENTER CAMPGROUND LOOP A	3	0.14	ASPHALT	79	79
0503	VISITOR CENTER CAMPGROUND LOOP C	3	0.38	ASPHALT	86	83
0504	VISITOR CENTER CAMPGROUND LOOP B	3	0.41	ASPHALT	80	77



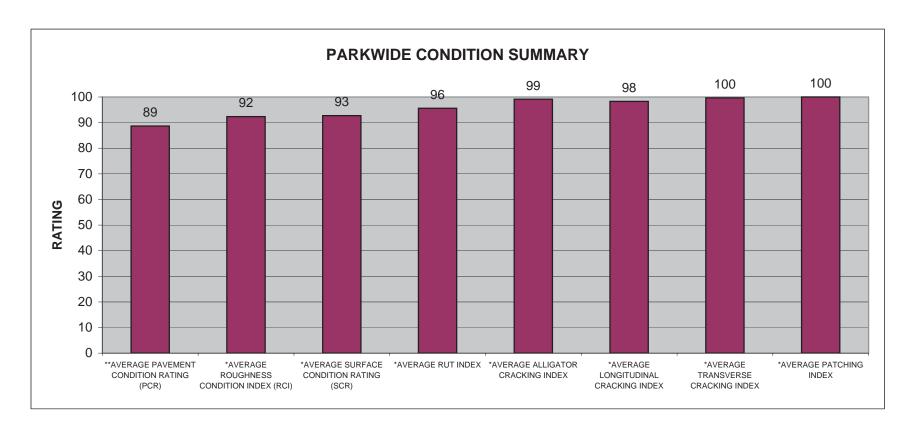
Data Collected 05/30/2009

#### **MACA: PARKWIDE CONDITION SUMMARY**

**AVERAGE	*AVERAGE	*AVERAGE		*AVERAGE	*AVERAGE	*AVERAGE	
<b>PAVEMENT</b>	ROUGHNESS	SURFACE		ALLIGATOR	LONGITUDINAL	TRANSVERSE	*AVERAGE
CONDITION	CONDITION	CONDITION	*AVERAGE	CRACKING	CRACKING	CRACKING	PATCHING
RATING (PCR)	INDEX (RCI)	RATING (SCR)	RUT INDEX	INDEX	INDEX	INDEX	INDEX
89	92	93	96	99	98	100	100

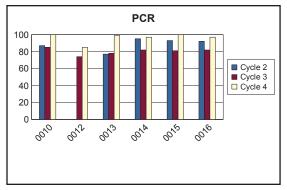
<sup>\*\*</sup> PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.

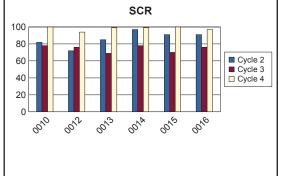
<sup>\*</sup> Index values are based on ARAN-driven roads only.

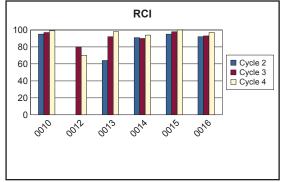


Data Collected 05/30/2009 2-8

	PAVEMENT CONDITION RATING (PCR) SURFACE CONDITION RATING (SCR)						ROUGHNESS CONDITION INDEX (RCI)									
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0010	5.74	0.00	5.74	87	85	100	+18%	82	78	100	+28%	95	97	99	+2%	
0012	0.12	0.00	0.12	N/A	74	85	+15%	72	76	94	+24%	N/A	80	70	-12%	
0013	1.31	0.00	1.31	77	78	99	+27%	85	69	99	+43%	64	92	98	+7%	
0014	4.18	0.00	4.18	95	82	97	+18%	97	78	99	+27%	91	90	94	+4%	
0015	5.10	0.00	5.10	93	81	100	+23%	91	70	100	+43%	95	98	100	+2%	
0016	3.02	0.00	3.02	92	82	97	+18%	91	76	97	+28%	92	93	97	+4%	



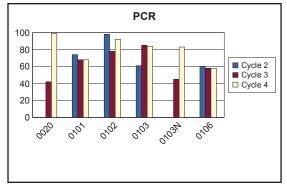


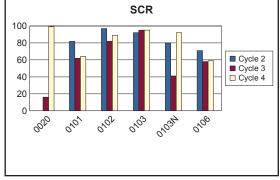


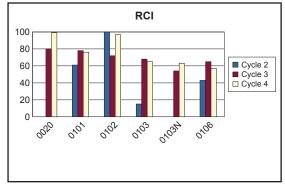
Cycle 4 Data Collected 5/5/2009 - 5/30/2009

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						PAVI	PAVEMENT CONDITION RATING (PCR)			SURFACE CONDITION RATING (SCR)			ROUGHNESS CONDITION INDEX (RCI)			1
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0020	2.28	0.00	2.28	N/A	42	99	+136%	N/A	16	99	+519%	N/A	80	99	+24%	
0101	3.63	0.00	3.63	74	68	68	0%	82	62	64	+3%	61	78	76	-3%	
0102	1.22	0.00	1.22	98	78	92	+18%	97	82	89	+9%	100	72	97	+35%	
0103	1.07	0.00	1.07	61	85	84	-1%	92	95	95	0%	15	68	65	-4%	
0103N	5.33	0.00	5.33	N/A	45	83	+84%	80	41	92	+124%	N/A	54	63	+17%	
0106	3.61	0.00	3.61	60	58	58	0%	71	58	59	+2%	43	65	57	-12%	



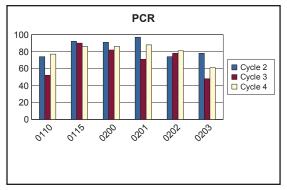


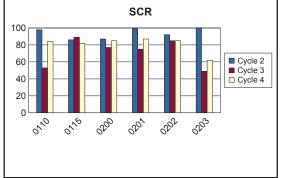


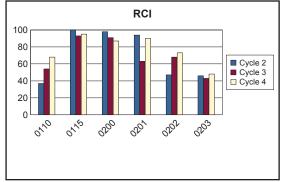
Cycle 4 Data Collected 5/5/2009 - 5/30/2009

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				PAV	DITION CR)	1	ACE CO	ONDITION (SCR)		ROUG	I					
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0110	2.00	0.00	2.00	74	52	77	+48%	98	53	84	+58%	37	54	68	+26%	
0115	0.30	0.00	0.30	92	90	86	-4%	86	89	82	-8%	100	93	95	+2%	
0200	1.10	0.00	1.10	91	82	86	+5%	87	77	85	+10%	98	91	87	-4%	
0201	1.04	0.00	1.04	97	71	88	+24%	99	75	87	+16%	94	63	90	+43%	
0202	0.45	0.00	0.45	74	78	81	+4%	92	85	85	0%	47	68	73	+7%	
0203	0.19	0.00	0.19	78	48	61	+27%	100	49	62	+27%	46	43	48	+12%	



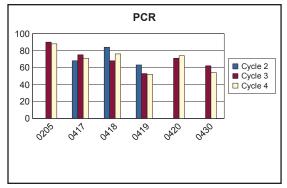


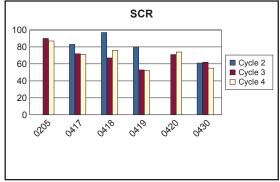


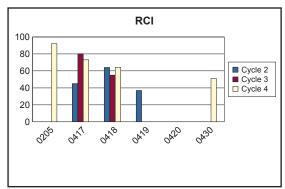
Cycle 4 Data Collected 5/5/2009 - 5/30/2009

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				I	EMENT RATIN		DITION CR)	5		ACE CO ATING	ONDITION (SCR)		ROUG	HNESS INDEX	CONDITION (RCI)	1
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0205	0.18	0.00	0.18	N/A	90	88	-2%	N/A	90	87	-3%	N/A	N/A	92	N/A	No RCI collected in Cycle 3.
0417	0.58	0.00	0.58	68	75	71	-5%	83	72	71	-1%	45	80	73	-9%	
0418	0.32	0.00	0.32	84	68	76	+12%	97	67	76	+13%	64	55	64	+16%	
0419	0.10	0.00	0.10	63	53	52	-2%	80	53	52	-2%	37	N/A	N/A	N/A	No RCI collected in Cycles 3 and 4.
0420	0.08	0.00	0.08	N/A	71	74	+4%	N/A	71	74	+4%	N/A	N/A	N/A	N/A	No RCI collected in Cycles 3 and 4.
0430	0.10	0.00	0.10	N/A	62	54	-13%	61	62	55	-11%	N/A	N/A	51	N/A	No RCI collected in Cycle 3.



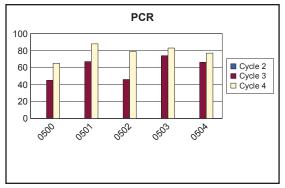


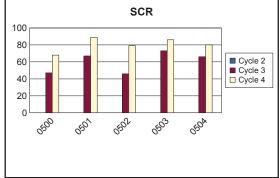


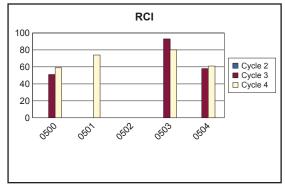
Cycle 4 Data Collected 5/5/2009 - 5/30/2009

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				1	EMENT RATIN		DITION CR)	SURFACE CONDITION RATING (SCR)					ROUG	HNESS INDEX	1	
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0500	0.16	0.00	0.16	N/A	45	65	+44%	N/A	47	68	+45%	N/A	51	59	+16%	
0501	0.26	0.00	0.26	N/A	67	88	+31%	N/A	67	89	+33%	N/A	N/A	74	N/A	No RCI collected in Cycle 3.
0502	0.14	0.00	0.14	N/A	46	79	+72%	N/A	46	79	+72%	N/A	N/A	N/A	N/A	No RCI collected in Cycles 3 and 4.
0503	0.38	0.00	0.38	N/A	74	83	+12%	N/A	73	86	+18%	N/A	93	80	-14%	
0504	0.41	0.00	0.41	N/A	66	77	+17%	N/A	66	80	+21%	N/A	58	61	+5%	







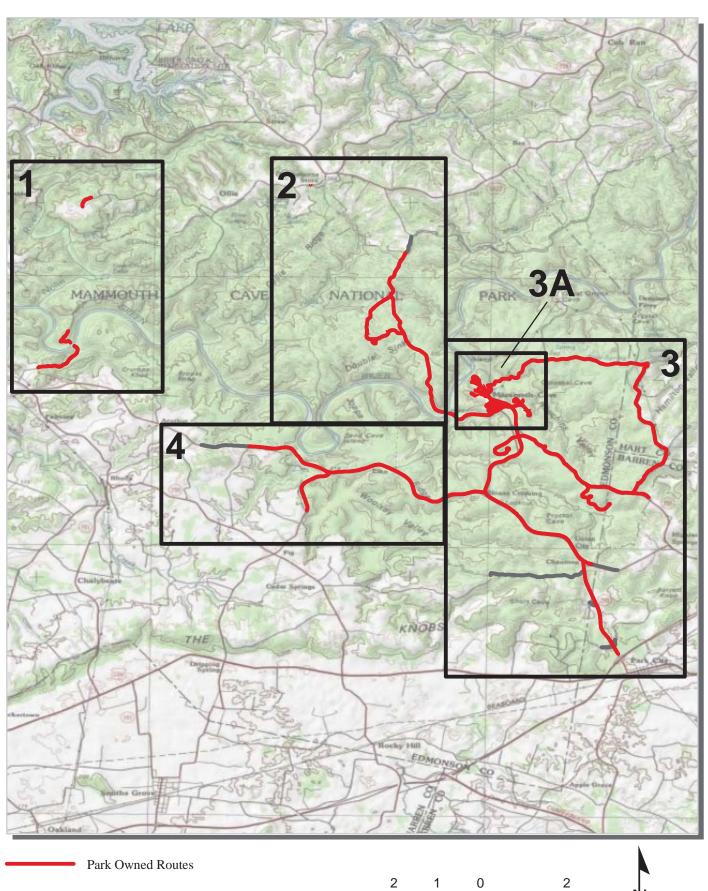
Cycle 4 Data Collected 5/5/2009 - 5/30/2009

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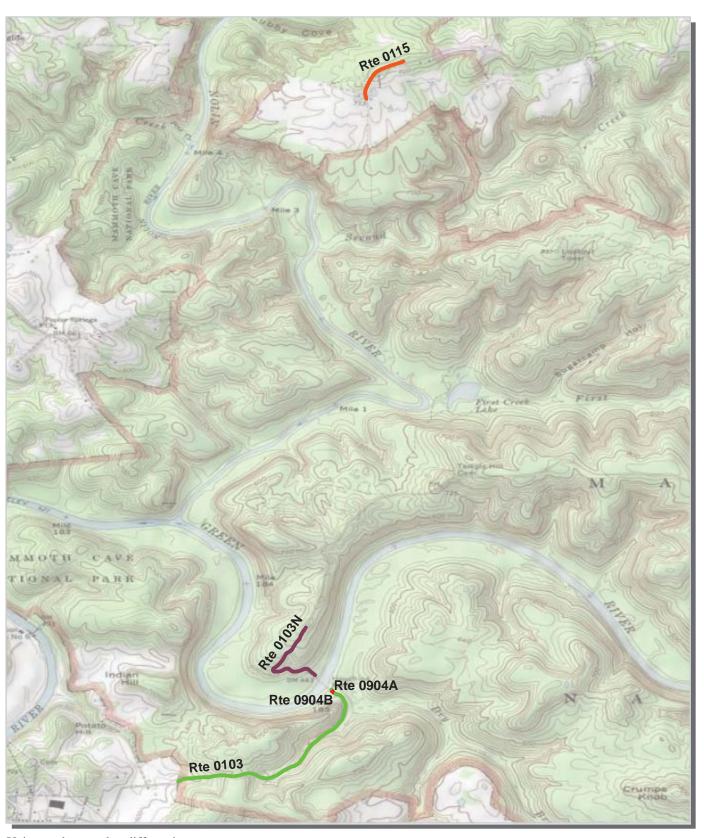
#### Mammoth Cave National Park

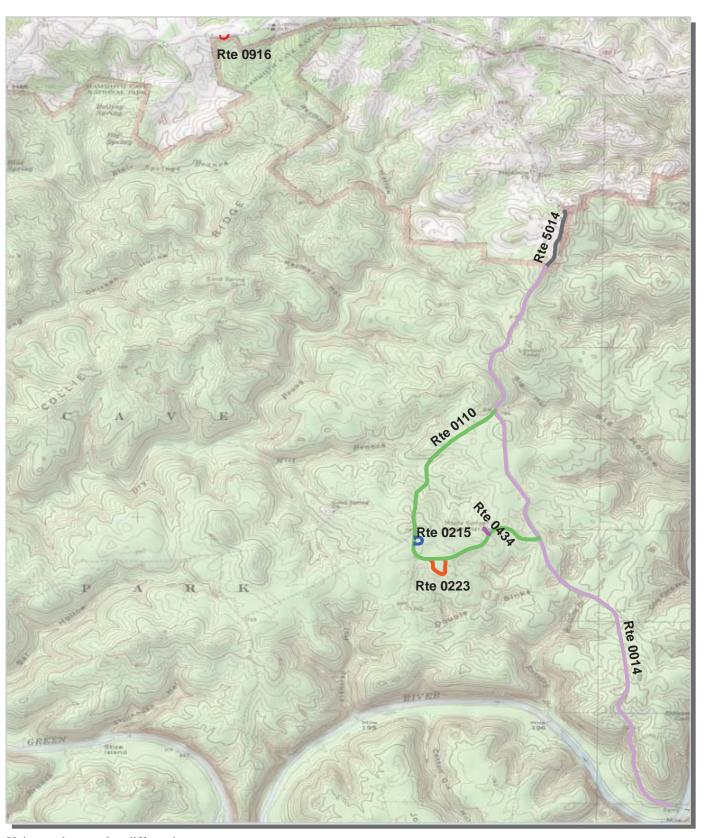


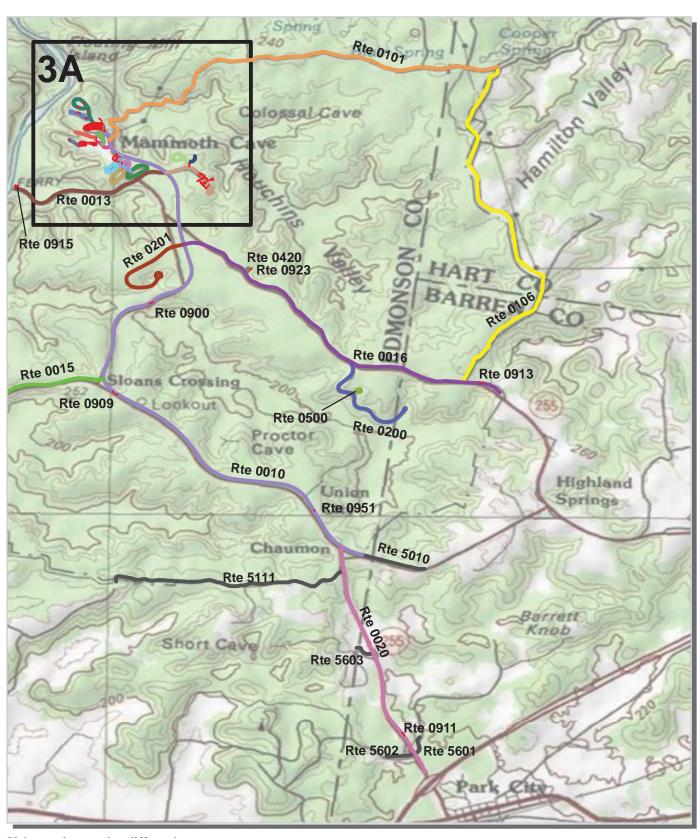
Section 3
Park Route Location / Condition
Maps

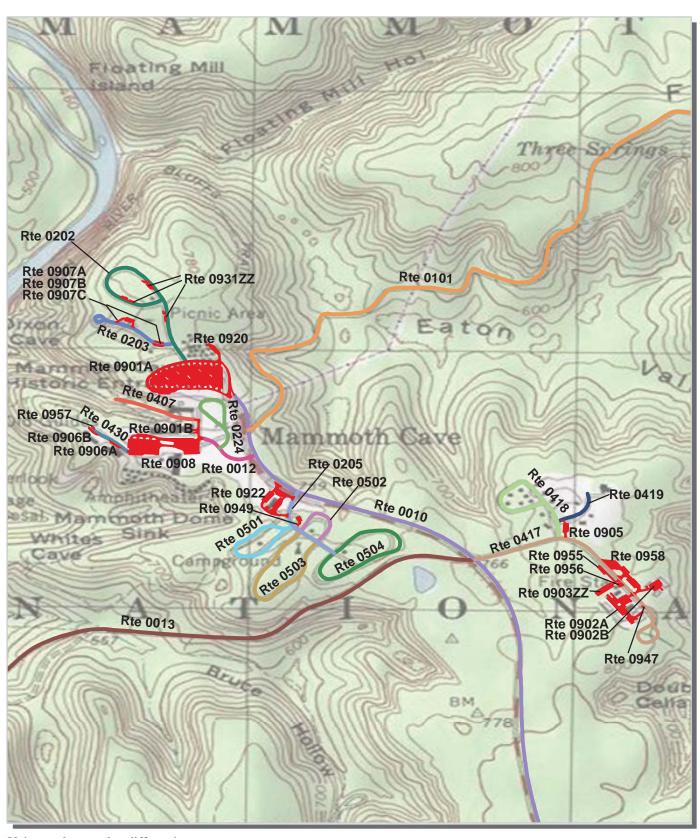


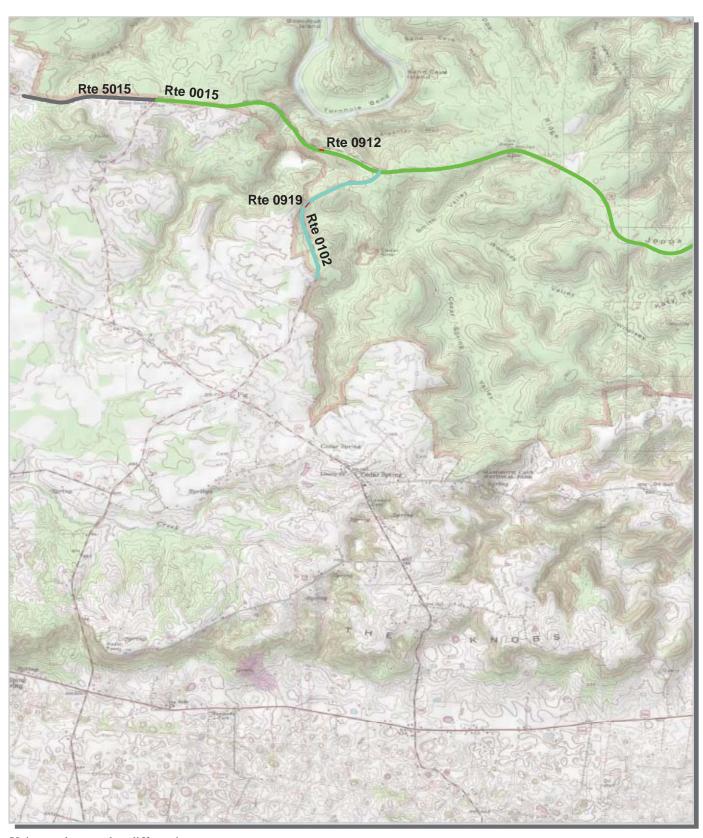
Miles



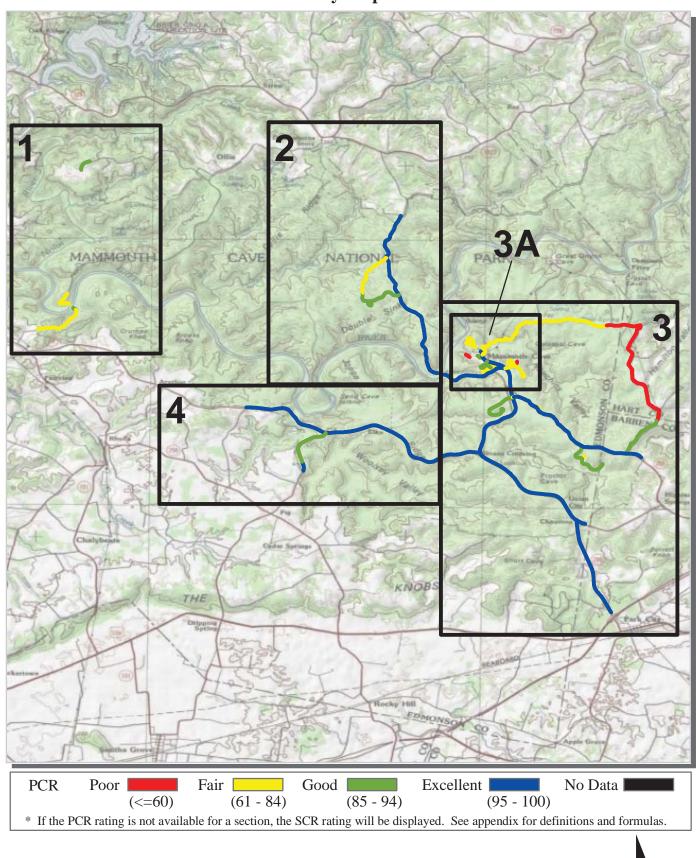






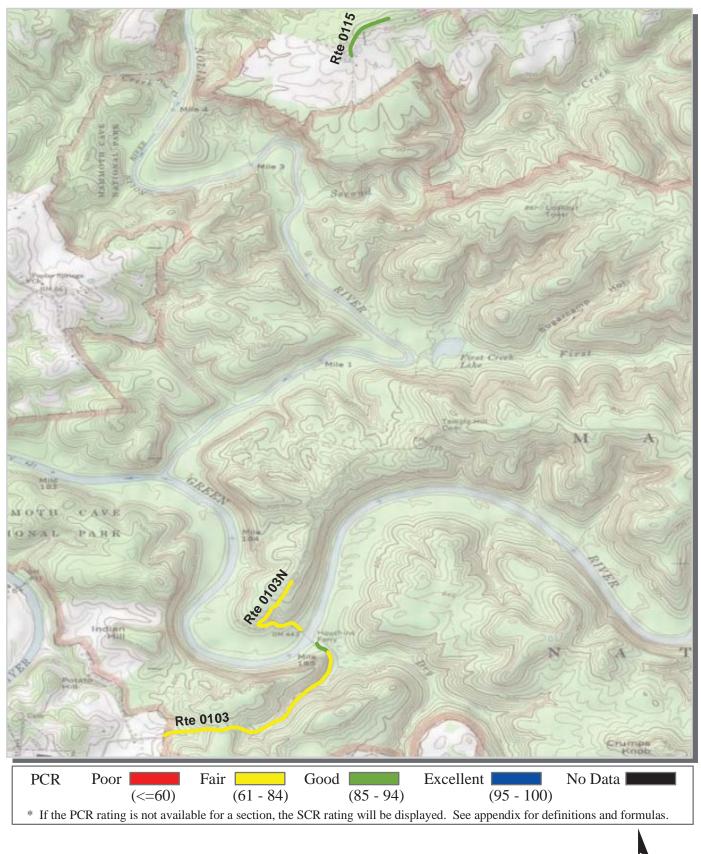


Unique colors used to differentiate routes

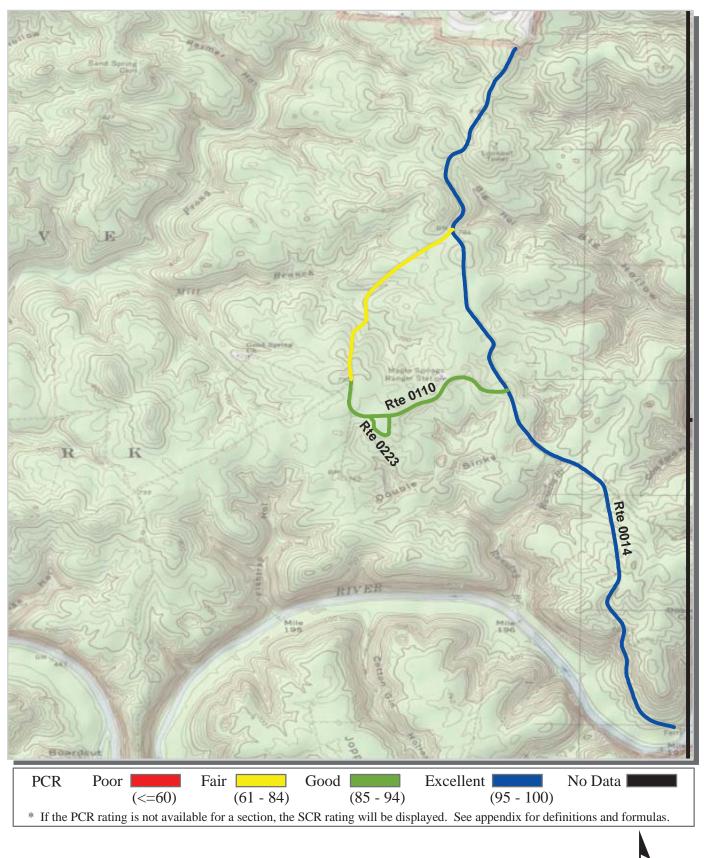


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2.5

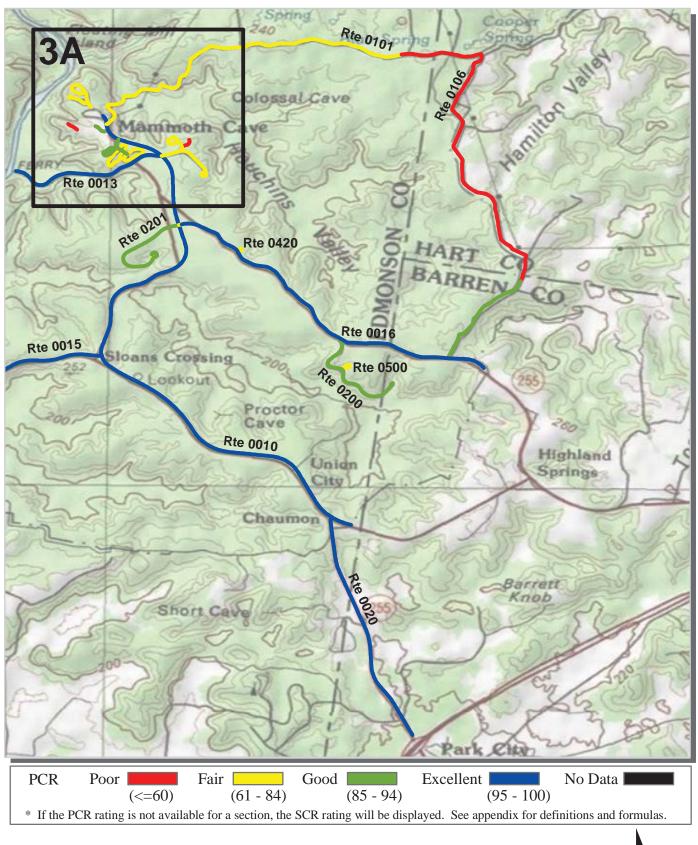


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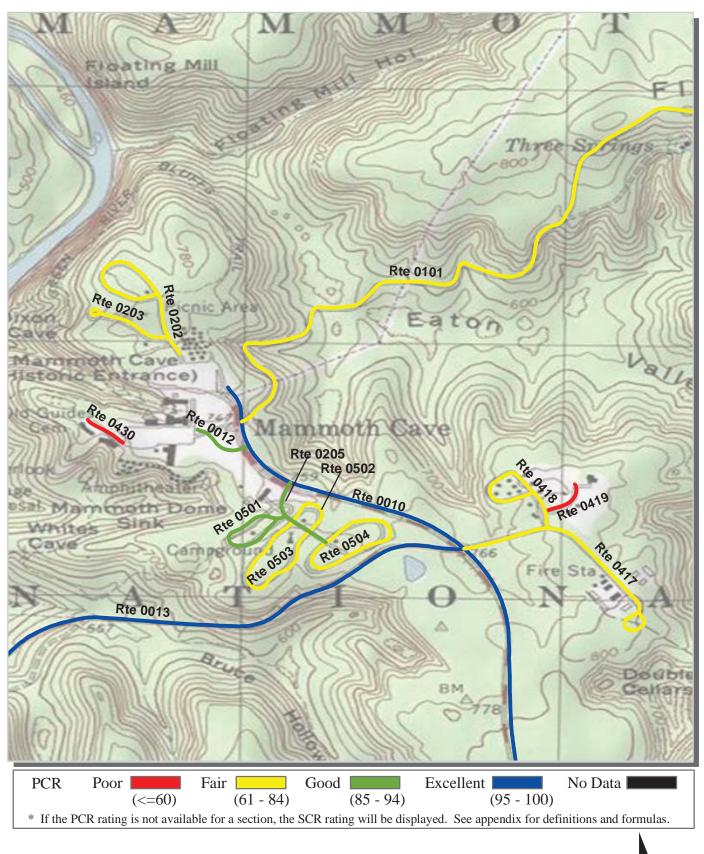


0.5

3-9



3-10



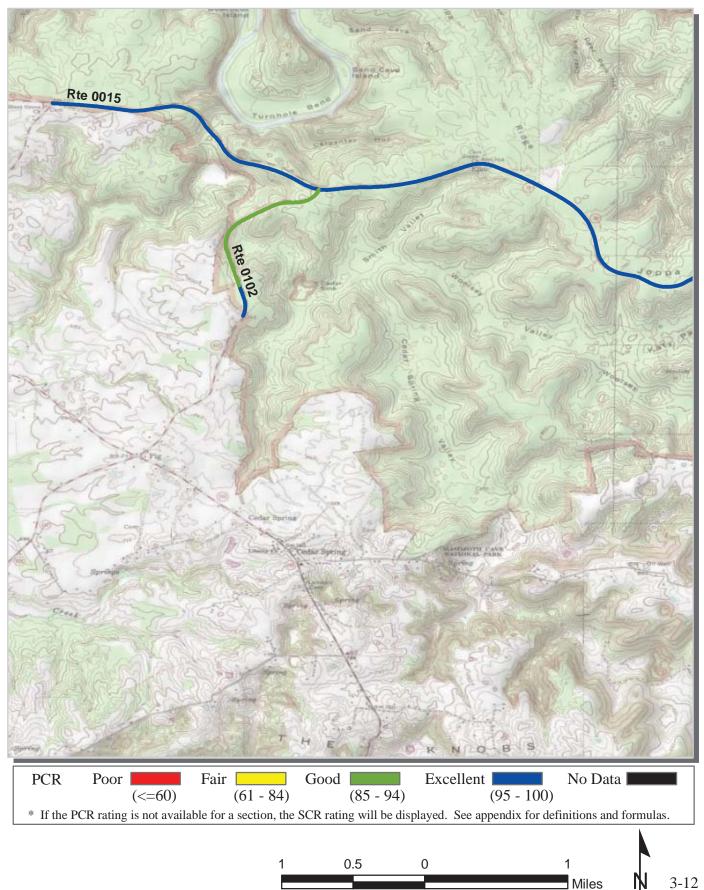
0.25

0.125

0

0.25

Miles



#### Mammoth Cave National Park



Section 4
Park Route Inventory

#### **NPS/RIP Route ID Report**

Road Inventory Program 03/23/2010

(Numerical By Route #)

Shading Color Key: Red text denotes approx. mileage

White = Paved Routes, ARAN Driven Yellow = Unpaved Routes, ARAN not Driven

Green = All Unpaved Parking Areas

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#### **MACA**

#### MAMMOTH CAVE NATIONAL PARK

Rte. No.	FMSS No.	Concess	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0010	50610		MAMMOTH CAVE PARKWAY	FROM END OF ROUTE 5010 (STATE HIGHWAY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED)) AT PARK BOUNDARY	TO ROUTE 0901A (VISITOR CENTER PARKING AREA)	N/A	5.740	0.000	5.740	1		0	AS	3,3A
0012	50613		HOTEL ENTRANCE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.59	TO ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING) AND ROUTE 0901B (HOTEL SERVICES PARKING) ON RIGHT	N/A	0.120	0.000	0.120	1		0	AS	3,3A
0013	50112		GREEN RIVER FERRY ROAD SOUTH	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.08	TO GREEN RIVER FERRY CROSSING RAMP # 1	N/A	1.310	0.000	1.310	1		0	AS	3,3A
0014	50113		GREEN RIVER FERRY ROAD NORTH	FROM END OF ROUTE 5014 (GREEN RIVER FERRY ROAD NORTH (NON NPS)) AT NORTH PARK BOUNDARY	TO GREEN RIVER FERRY CROSSING RAMP #2	N/A	4.180	0.000	4.180	1		0	AS	2
0015	6061		BROWNSVILLE ROAD	FROM WEST PARK BOUNDARY AT INTERSECTION OF COUNTY HIGHWAY 2325 AND ROUTE 5015 (STATE HIGHWAY 70/BROWNSVILLE ROAD EXTENSION)	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)	N/A	5.100	0.000	5.100	1		0	AS	3,4
0016	50612		CAVE CITY ROAD	FROM HIGHWAY 255 AT EAST PARK BOUNDARY	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)	N/A	3.020	0.000	3.020	1		0	AS	3
0020	85739		PARK CITY ROAD	FROM I-65 AT PARK BOUNDARY (PARK CITY)	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)	N/A	2.280	0.000	2.280	1		0	AS	3
0101	50614		FLINT RIDGE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.65 ON RIGHT	TO PARK BOUNDARY AND ROUTE 0106 (PARK RIDGE ROAD) ON RIGHT	N/A	3.630	0.000	3.630	2		0	AS	3,3A
0102	50609		CEDAR SINK ROAD	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.74 ON RIGHT	TO SOUTHWEST PARK BOUNDARY	N/A	1.220	0.000	1.220	2		0	AS	4
0103	50608		HOUCHINS FERRY ROAD SOUTH	FROM SOUTH PARK BOUNDARY	TO HOUCHINS FERRY CROSSING RAMP #1	N/A	1.070	0.000	1.070	2		0	AS	1
0103N	50144		HOUCHINS FERRY ROAD NORTH	FROM HOUCHINS FERRY RAMP CROSSING #2	TO OLLIE ROAD, OLLIE RIDGE ROAD INTERSECTION	N/A	0.500	4.830	5.330	2		0	AS	1
0104	50143		GREAT ONYX CAVE ROAD	FROM ROUTE 0101 (FLINT RIDGE ROAD) AT MP 1.68 ON LEFT	TO GREAT ONYX CAVE (GATED)	N/A	0.000	2.090	2.090	2		0	GR	

#### **NPS/RIP Route ID Report**

Road Inventory Program 03/23/2010

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**MACA** 

#### MAMMOTH CAVE NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0105	50138		CRYSTAL CAVE ROAD	FROM ROUTE 0101 (FLINT RIDGE ROAD) AT MP 3.39 ON LEFT	TO CRYSTAL CAVE (GATED)	N/A	0.000	1.360	1.360	2		0	GR	
0106	50625		PARK RIDGE ROAD	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 0.32 ON RIGHT	TO PARK BOUNDARY AND ROUTE 0101 (FLINT RIDGE ROAD) ON LEFT	N/A	3.610	0.000	3.610	2		0	AS	3
0107	50155		LITTLE JORDAN ROAD (UGLY CREEK)	FROM COUNTY ROUTE 1352	TO EAST BOUNDARY AT DENNISON FERRY NORTH	N/A	0.000	4.800	4.800	3		0	GR	
0109	50142		GOOD SPRING CHURCH ROAD	FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.01 ON RIGHT	TO END OF LOOP AT GOOD SPRING CHURCH	N/A	0.000	0.500	0.500	2		0	GR	
0110	50110		MAPLE SPRINGS LOOP	FROM ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH) AT MP 1.09 ON RIGHT	TO ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH) AT MP 2.03 ON RIGHT	N/A	1.960	0.000	1.960	3		0	AS	2
0113	50146		JOPPA RIDGE ROAD	FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 0.81 ON LEFT	TO ROUTE 0015 (BROWNSVILLE ROAD)	N/A	0.000	2.160	2.160	3		0	GR	
0114	50139		DENNISON FERRY ROAD	FROM COUNTY ROUTE 218 (COUNTY FLINT RIDGE ROAD)	TO CANOE LAUNCH AT DENNISON FERRY	N/A	0.000	1.540	1.540	2		0	GR	
0115	50115		OLLIE RIDGE ROAD (GREAT ONYX JOB CORP CENTER)	FROM PARK BOUNDARY	TO CENTER ENTRANCE GATE	N/A	0.290	0.000	0.290	3		0	AS	1
0200	50617		FROZEN NIAGARA ENTRANCE ROAD	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 1.23 ON LEFT	TO END OF LOOP	N/A	1.100	0.000	1.100	2		0	AS	3
0201	50616		CARMICHAEL ENTRANCE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 4.37 ON LEFT	TO END OF LOOP	N/A	1.040	0.000	1.040	2		0	AS	3
0202	50117		VISITOR CENTER PICNIC GROUNDS ROAD	FROM ROUTE 0901A (VISITOR CENTER PARKING AREA)	TO END OF LOOP	N/A	0.450	0.000	0.450	3		0	AS	3,3A
0203	50118		VISITOR CENTER PICNIC SHELTER ROAD	FROM ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)	TO END OF LOOP	N/A	0.190	0.000	0.190	3		0	AS	3,3A
0205	85740		HQ CAMPGROUND ACCESS ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.46 ON LEFT	TO ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)	N/A	0.180	0.000	0.180	2		0	AS	3,3A
0215	50151		MAPLE SPRINGS TRAILHEAD PARKING ROAD	FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.06 ON LEFT	TO ROUTE 0110 (MAPLE SPRINGS LOOP)	N/A	0.000	0.000	0.000	3		8,479	AS	2

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50156		WILKINS CEMETERY ROAD	FROM ROUTE 0107 (LITTLE JORDAN ROAD (UGLY CREEK))	TO END	N/A	0.000	0.000	0.000	2		0	GR	
56048		HOUCHINS FERRY CAMPGROUND ROAD	FROM ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH)	TO END OF LOOP	N/A	0.000	0.000	0.000	3		0	GR	
85742		MAPLE SPRINGS LOOP CAMPGROUND	FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.26	TO ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.34	N/A	0.250	0.000	0.250	3		0	AS	2
225959		VISITOR CENTER BUS LOOP	FROM ROUTE 0012 (HOTEL ENTRANCE ROAD)	TO END OF LOOP	N/A	0.240	0.000	0.240	3		21,542	AS	3,3A
57781		PARK CITY CEMETERY ROAD	FROM ROUTE 0020 (PARK CITY ROAD)	TO CEMETERY	N/A	0.000	0.100	0.100	3		0	GR	
80625		JAMES CEMETERY ROAD	FROM PRIVATE GRAVEL ROAD	TO CEMETERY	N/A	0.000	0.450	0.450	3		0	GR	
50125		WONDERING WOODS ROADS	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO WODERING WOODS VILLAGE	N/A	0.000	1.200	1.200	3		0	GR	
50133		CEDAR SINK SERVICE ROAD	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.81 ON RIGHT	TO ROUTE 0102 (CEDAR SINK ROAD)	N/A	0.000	1.320	1.320	6		0	GR	
50128		BRANSFORD SPRING ROAD	FROM ROUTE 0104 (GREAT ONYX CAVE ROAD)	TO END	N/A	0.000	0.170	0.170	5		0	GR	
50147		LICK LOG ROAD	FROM ROUTE 0114 (DENNISON FERRY ROAD)	TO END	N/A	0.000	0.290	0.290	6		0	GR	
50154		ROCK QUARRY ROAD	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 4.43 ON RIGHT	TO QUARRY	N/A	0.000	0.210	0.210	6		0	GR	
50626		HISTORIC ENTRANCE ROAD	FROM ROUTE 0901B (HOTEL SERVICES PARKING)	TO END AT HISTORIC CAVE ENTRANCE	N/A	0.160	0.000	0.160	3		9,293	AS	3,3A
50141		FIRST CREEK TOWER ROAD	FROM PARK BOUNDARY AT CLELL ROAD (COUNTY)	TO END OF ROAD	N/A	0.000	3.200	3.200	3		0	GR	
50132		BUFFALO FERRY ROAD	FROM SOUTH PARK BOUNDARY	TO GREEN RIVER	N/A	0.000	1.780	1.780	3		0	GR	
50129		BROOKS CEMETERY ROAD	FROM ROUTE 0411 (BUFFALO FERRY ROAD)	TO CEMETERY	N/A	0.000	0.360	0.360	3		0	GR	
50152		NEW DISCOVERY ROAD	FROM ROUTE 0201 (CARMICHAEL ENTRANCE ROAD) AT MP 0.13 ON RIGHT	TO END	N/A	0.000	0.540	0.540	3		0	GR	
50116		PARK MAINTENANCE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.08 ON RGHT	TO END OF LOOP	N/A	0.580	0.000	0.580	5		0	AS	3,3A
	No.  50156  50156  56048  85742  225959  57781  80625  50125  50133  50128  50147  50154  50626  50141  50132  50129  50152	50156  56048  85742  225959  57781  80625  50125  50128  50147  50154  50626  50141  50132  50129  50152	No.         85         Route Name           50156         WILKINS CEMETERY ROAD           56048         HOUCHINS FERRY CAMPGROUND ROAD           85742         MAPLE SPRINGS LOOP CAMPGROUND           225959         VISITOR CENTER BUS LOOP           57781         PARK CITY CEMETERY ROAD           80625         JAMES CEMETERY ROAD           50125         WONDERING WOODS ROADS           50133         CEDAR SINK SERVICE ROAD           50128         BRANSFORD SPRING ROAD           50147         LICK LOG ROAD           50154         ROCK QUARRY ROAD           50154         ROCK QUARRY ROAD           50132         BUFFALO FERRY ROAD           50132         BUFFALO FERRY ROAD           50152         NEW DISCOVERY ROAD	S0156   WILKINS CEMETERY   FROM ROUTE 0107 (LITTLE JORDAN ROAD (UGLY CREEK))	S0156   WILKINS CEMETERY   FROM ROUTE 0107 (LITTLE JORDAN ROAD (UGLY CREEK))	Solision	S0156   WILKINS CEMETERY   FROM ROUTE 0107 (LITTLE   TO END   N/A   0.000	No.   8	No.   8   9   2	No.	Route Name   From   To   District   Paved   Paved	Route Name   From   To   District   Paved   Route   Fine   Rate   Class   Rate   Class   Rate   Sk/FT	Route Name

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#### MAMMOTH CAVE NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0418	50119		RESIDENCE LOOP ROAD	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO END OF LOOP	N/A	0.320	0.000	0.320	5		0	AS	3,3A
0419	50120		SUPERINTENDENT OFFICE ROAD	FROM ROUTE 0418 (RESIDENCE LOOP ROAD)	TO ROUTE 0946 (ADMINISTRATION AREA EMPLOYEE PARKING)	N/A	0.100	0.000	0.100	5		0	AS	3,3A
0420	50623		ELEVATOR SHAFT ROAD	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 2.44 ON RIGHT	TO END OF LOOP	N/A	0.080	0.000	0.080	2		0	AS	3
0422	50134		COLLINS SPRINGS ROAD	FROM ROUTE 0105 (CRYSTAL CAVE ROAD)	TO END	N/A	0.000	0.400	0.400	5		0	GR	
0423	50127		ADWELL SPRINGS ROAD	FROM ROUTE 0101 (FLINT RIDGE ROAD) AT MP 2.87 ON RIGHT	TO END	N/A	0.000	0.400	0.400	5		0	GR	
0428	50140		DOYLE VALLEY SERVICE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO END OF ROAD	N/A	0.000	1.000	1.000	3		0	GR	
0430	50111		SUNSET LODGE ROAD	FROM SOUTHWEST END OF ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)	TO HIKING TRAIL AND END OF ROUTE 0957 (HERITAGE TRAIL PARKING) ON RIGHT	N/A	0.090	0.000	0.090	3		0	AS	3,3A
0431	86305		POINT X SEWAGE LIFT STATION ROAD	FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 0.08 ON RIGHT	TO END OF ROUTE	N/A	0.000	0.000	0.000	6		0	GR	
0432	86306		SUNSET POINT SEWAGE LIFT STATION ACCESS ROAD	FROM END OF ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)	TO END AT PUMP HOUSE	N/A	0.000	0.080	0.080	6		0	GR	
0433	86308		MOUNT MCKINLEY UTILITY AREA	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 1.36 ON LEFT	TO END OF ROUTE	N/A	0.000	0.000	0.000	6		0	GR	
0434	225465		LEARNING CENTER ACCESS ROAD	FROM ROUTE 0110 (MAPLE SPRINGS LOOP)	TO END	N/A	0.050	0.020	0.070	5		3,379	AS	2
0500	50619		NEW ENTRANCE LOOP	FROM ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD) AT MP 0.43	TO ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD) AT MP 0.45	N/A	0.160	0.000	0.160	5		0	AS	3
0501	50122		VISITOR CENTER CAMPGROUND LOOP D	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.08 ON RIGHT	TO END OF LOOP	N/A	0.260	0.000	0.260	3		0	AS	3,3A
0502	50109		VISITOR CENTER CAMPGROUND LOOP A	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.10 ON LEFT	TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.14	N/A	0.140	0.000	0.140	3		0	AS	3,3A
0503	50123		VISITOR CENTER CAMPGROUND LOOP C	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.14 ON RIGHT	TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.10	N/A	0.380	0.000	0.380	3		0	AS	3,3A

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#### MAMMOTH CAVE NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0504	50124		VISITOR CENTER CAMPGROUND LOOP B	FROM END OF ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)	TO END OF LOOP	N/A	0.410	0.000	0.410	3		0	AS	3,3A
0900	50187		DOYLE VALLEY OVERLOOK	ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 3.65 ON RIGHT		N/A	0.000	0.000	0.000			8,595	AS	3
0901A	50169		VISITOR CENTER PARKING AREA	FROM END OF ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO PARKING	N/A	0.000	0.000	0.000			244,777	AS	3,3A
0901B	50165		HOTEL SERVICES PARKING	FROM ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)	TO ROUTE 0407 (HISTORIC ENTRANCE ROAD)	N/A	0.000	0.000	0.000			7,207	AS	3,3A
0902A	50172		MAINTENANCE PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING	N/A	0.000	0.000	0.000			43,786	AS	3,3A
0902B	50170		CONCESSION SERVICE PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING	N/A	0.000	0.000	0.000			16,224	AS	3,3A
0903ZZ	50184		RANGER TRAINING CENTER PARKING AREAS	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING AREAS	N/A	0.000	0.000	0.000			13,801	AS	3,3A
0904A	50167		HOUCHINS FERRY ROAD SOUTH PARKING	ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON RIGHT		N/A	0.000	0.000	0.000			1,602	AS	1
0904B	86327		HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING	ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON LEFT		N/A	0.000	0.000	0.000			3,164	AS	1
0905	50185		RECYCLING AREA PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO ROUTE 0419 (SUPERINTENDENT OFFICE ROAD)	N/A	0.000	0.000	0.000			8,238	AS	3,3A
0906A	50175		SUNSET LODGE PARKING A	ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)		N/A	0.000	0.000	0.000			2,376	AS	3,3A
0906B	50176		SUNSET LODGE PARKING B	ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)		N/A	0.000	0.000	0.000			2,647	AS	3,3A
0907A	50182		PICNIC SHELTER PARKING A	FROM ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.09 ON RIGHT	TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)	N/A	0.000	0.000	0.000			7,779	AS	3,3A
0907B	50183		PICNIC SHELTER PARKING B	ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON LEFT		N/A	0.000	0.000	0.000			2,322	AS	3,3A
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0907C	86328		PICNIC SHELTER PARKING C	ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON RIGHT		N/A	0.000	0.000	0.000			1,706	AS	3,3A
0908	50164		MAMMOTH CAVE HOTEL PARKING	FROM END OF ROUTE 0012 (HOTEL ENTRANCE ROAD)	TO ROUTE 0430 (SUNSET LODGE ROAD)	N/A	0.000	0.000	0.000			122,969	AS	3,3A
0909	50191		SLOANS CROSSING PICNIC/POND PARKING	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 2.56	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)	N/A	0.000	0.000	0.000			9,382	AS	3
0911	50179		PARK CITY ENTRANCE SIGN PARKING	ADJACENT TO ROUTE 0020 (PARK CITY ROAD) AT MP 0.40 ON RIGHT		N/A	0.000	0.000	0.000			9,746	AS	3
0912	50193		TURNHOLE BEND NATURE TRAIL PARKING	ADJACENT TO ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.30 ON LEFT		N/A	0.000	0.000	0.000			6,046	AS	4
0913	50189		SAND CAVE PARKING	ADJACENT TO ROUTE 0016 (CAVE CITY ROAD) AT MP 0.18 ON RIGHT		N/A	0.000	0.000	0.000			6,310	AS	3
0915	50163		GREEN RIVER FERRY PARKING	FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 1.28 ON RIGHT	TO PARKING	N/A	0.000	0.000	0.000			20,639	AS	3
0916	85741		LINCOLN LOOP TRAILHEAD ROAD	FROM OLLIE ROAD	TO OLLIE ROAD	N/A	0.000	0.000	0.000			12,926	AS	2
0918	50204		MAPLE SPRINGS TRAILHEAD PARKING	ADJACENT TO ROUTE 0110 (MAPLE SPRINGS LOOP)		N/A	0.000	0.000	0.000			0	GR	
0919	50157		CEDAR SINK TRAILHEAD PARKING	ADJACENT TO ROUTE 0102 (CEDAR SINK ROAD) AT MP 0.57 ON LEFT		N/A	0.000	0.000	0.000			5,795	AS	4
0920	50194		WOODLAND COTTAGES PARKING	FROM ROUTE 0901A (VISITOR CENTER PARKING AREA)	TO PARKING	N/A	0.000	0.000	0.000			9,692	AS	3,3A
0922	50160		SERVICES PARKING (POST OFFICE/DUMP STATION/GAS)	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)	N/A	0.000	0.000	0.000			46,174	AS	3,3A
0923	50162		ELEVATOR PARKING	FROM ROUTE 0420 (ELEVATOR SHAFT ROAD)	TO PARKING	N/A	0.000	0.000	0.000			4,631	AS	3
0931ZZ	50180		PICNIC GROUNDS PARKING AREAS	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)		N/A	0.000	0.000	0.000			10,849	AS	3,3A
0933	50196		DENNISON FERRY DAY USE PARKING	ADJACENT TO ROUTE 0114 (DENNISON FERRY ROAD)		N/A	0.000	0.000	0.000			0	GR	
		l		J					l				J I	

Road Inventory Program 03/23/2010

(Numerical By Route #)

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

Yellow = Unpaved Routes, ARAN not Driven

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

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Page 7 of 10

Grey = Paved Routes, ARAN not Driven

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

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= Concession Route Flag ON

**MACA** 

Rte. No.	FMSS No.	Concess Route	Route Name	Route Descri From	ption To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0935	50201		FIRST CREEK TRAILHEAD PARKING	ADJACENT TO ROUTE 0103N (HOUCHINS FERRY ROAD NORTH)		N/A	0.000	0.000	0.000			0	GR	
0936	50202		ADWELL CEMETERY PARKING	ADJACENT TO ROUTE 0101 (FLINT RIDGE ROAD)		N/A	0.000	0.000	0.000			0	GR	
0938	50207		HOUCHINS FERRY NORTH PARKING	ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) AT MP 0.03 ON LEFT		N/A	0.000	0.000	0.000			0	GR	
0939	83606		TEMPLE HILL CEMETERY PARKING	ADJACENT TO ROUTE 0103N (HOUCHINS FERRY ROAD NORTH) AT MP 1.70 ON LEFT		N/A	0.000	0.000	0.000			0	GR	
0940	83607		TEMPLE HILL TRAILHEAD PARKING	ADJACENT TO ROUTE 0103N (HOUCHINS FERRY ROAD NORTH) AT MP 2.0 ON RIGHT		N/A	0.000	0.000	0.000			0	GR	
0941	50148		JAGGERS CEMETERY PARKING	ADJACENT TO ROUTE 0103N (HOUCHINS FERRY ROAD NORTH) AT MP 5.10 ON RIGHT		N/A	0.000	0.000	0.000			0	GR	
0942	50149		LOCUST GROVE CEMETERY PARKING	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO CEMETERY	N/A	0.000	0.000	0.000			0	GR	
0943	50150		MAMMOTH CAVE CHURCH PARKING	FROM ROUTE 0101 (FLINT RIDGE ROAD) AT MP 2.02 ON LEFT	TO END	N/A	0.000	0.000	0.000			0	GR	
0944	50200		LITTLE HOPE CEMETERY PARKING	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 0.68 ON RIGHT	TO END	N/A	0.000	0.000	0.000			0	GR	
0945	50145		JOPPA CHURCH CEMETERY PARKING	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 2.66 ON LEFT	TO END	N/A	0.000	0.000	0.000			0	GR	
0946	61219		ADMINISTRATION AREA EMPLOYEE PARKING	FROM ROUTE 0419 (SUPERINTENDENT OFFICE ROAD) AT END	TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0947	50205		S & RM EMPLOYEE PARKING #1	ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD) AT MP 0.41 ON RIGHT		N/A	0.000	0.000	0.000			748	AS	3,3A
0948	83608		S & RM EMPLOYEE PARKING #2	ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD) AT MP ON LEFT		N/A	0.000	0.000	0.000			0	GR	
0949	86331		HQ CAMPGROUND EMPLOYEE PARKING	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.08 ON LEFT	TO PARKING	N/A	0.000	0.000	0.000			4,032	AS	3,3A

Road Inventory Program 03/23/2010

(Numerical By Route #)

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Grey = Paved Routes, ARAN not Driven

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

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**MACA** 

Rte. No.	FMSS No.	Concess Route	Route Name	Route De	escription	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
												- 67		
0950	86290		NORTH GREEN RIVER FERRY PARKING	ADJACENT TO ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH) AT MP 4.14 ON RIGHT		N/A	0.000	0.000	0.000			0	GR	
0951	113201		BIKE TRAIL PARKING AT LOCUST GROVE	ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)		N/A	0.000	0.000	0.000			4,552	AS	3
0952	113203		TRAIL PARKING AT ZION CEMETERY ROAD	ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)		N/A	0.000	0.000	0.000			800	GR	
0953	50158		CHAPEL PARKING AREA	FROM	TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0954	50159		CHAUMONT ADMINISTRATION FACILITY PARKING	FROM	TO PARKING	N/A	0.000	0.000	0.000			0	GR	
0955	86323		SEASONAL QUARTERS PARKING AREA B	FROM ROUTE 0903ZZ (RANGER TRAINING CENTER PARKING AREAS)	TO PARKING	N/A	0.000	0.000	0.000			6,497	СО	3,3A
0956	95006		FITNESS CENTER PARKING AREA	ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD)		N/A	0.000	0.000	0.000			2,832	AS	3,3A
0957	225462		HERITAGE TRAIL PARKING	ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)		N/A	0.000	0.000	0.000			821	AS	3,3A
0958	225463		FUELING/BUS PARKING AREA	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO ROUTE 0902B (CONCESSION SERVICE PARKING)	N/A	0.000	0.000	0.000			36,809	AS	3,3A
5010	N/A		STATE HIGHWAY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED)	FROM 0.5 MILES EAST OF PARK BOUNDARY ON STATE HIGHWAY 70/255	TO PARK BOUNDARY / BEGIN ROUTE 0010 (MAMMOTH CAVE PARKWAY)	N/A	0.500	0.000	0.500	0		0	AS	3
5014	N/A		GREEN RIVER FERRY ROAD NORTH (NON NPS)	FROM LITTLE JORDAN ROAD	TO NORTH PARK BOUNDARY AT BEGIN ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)	N/A	0.410	0.000	0.410	0		0	AS	2
5015	N/A		STATE HIGHWAY 70/BROWNSVILLE ROAD EXTENSION	FROM STATE HIGHWAY 70 AT TAXIDERMY BUSINESS ON LEFT	TO PARK BOUNDARY AT COUNTY HIGHWAY 2325/BEGIN ROUTE 0015 (BROWNSVILLE ROAD)	N/A	0.910	0.000	0.910	0		0	AS	4
5111	N/A		CEDAR HILL CHURCH ROAD	FROM ROUTE 0020 (PARK CITY ROAD)	TO OLD MEXICO ROAD (PRIVATE ROAD) ON RIGHT	N/A	1.880	0.000	1.880	0		0	AS	3
5601	N/A		DOYLE ROAD	FROM ROUTE 0020 (PARK CITY ROAD) AT MP 0.20 ON RIGHT	TO PARK BOUNDARY MARKER ON LEFT (FENCE POST)	N/A	0.180	0.000	0.180	0		0	AS	3
				_										

Road Inventory Program 03/23/2010 (Numerical By Route #) Page 9 of 10

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

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= Concession Route Flag ON

MACA

#### MAMMOTH CAVE NATIONAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
5602	N/A	Ž	ZION CEMETERY ROAD	FROM ROUTE 0020 (PARK CITY ROAD) AT MP 0.20 ON LEFT	TO PARK BOUNDARY MARKER ON RIGHT (FENCE POST)	N/A	0.220	0.000	0.220	0		0	AS	3
5603	N/A		SHORT CAVE ROAD	FROM ROUTE 0020 (PARK CITY ROAD) AT MP 1.23 ON LEFT	TO PARK BOUNDARY MARKER ON LEFT (FENCE LINE)	N/A	0.160	0.000	0.160	0		0	AS	3

#### **SUMMARY TOTALS FOR MAMMOTH CAVE NATIONAL PARK**

LANE MILI	<u>5</u>	ROUTE TOTALS
ARAN Driven Lane I	39.760	ARAN Driven Route Miles
Paved Parking Lane I	40.210	All Paved Route Miles
Paved MRR Lane I	28.800	All Unpaved Route Miles
TOTAL PAVED LANE M	69.010	TOTAL PARK ROUTE MILES
	42,694	All Manually Rated Roads (SQFT)
	TALS	PARKING AREA TO
PCR SCR	685,673	All Paved Parking (SQFT)
(Rating) (Rating) 88.66 92.72	800	All Unpaved Parking (SQFT)
88.66	686,473	TOTAL ALL PARKING (SQFT)

LANE MILE TOTALS						
ARAN Driven Lane Miles	69.395					
Paved Parking Lane Miles	11.805					
Paved MRR Lane Miles	0.735					
TOTAL PAVED LANE MILES	81.935					

CONCESSION TOTALS							
0.000							
0.000							
0							
0							
0							

	RCI
	(Rating)
	92.34
ш	

RUT (Index)
95.60

AC	
(Index)	
99.13	ı

**WEIGHTED AVERAGE PARK VALUES** 

LC (Index)	TC (Index)
98.29	99.66

PATCH	PCR
(Index)	(Concession)
100.00	N/A

Road Inventory Program 03/23/2010 (Numerical By Route #) Page 10 of 10

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lue = All Payed Parking Areas

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= Concession Route Flag ON

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#### **General Park Road Functional Classification Table**

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

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

  Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.
- Class 7 Urban Parkway (Urban Parkways and City Streets) These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.
- Class 8 City Streets (Urban Parkways and City Streets) City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

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

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

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

#### **Surface Type Abbreviations:**

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

## **NPS/RIP Subcomponent Details for MACA**

Road Inventory Program 03/23/2010 (Numerical By Subcomponent #)

oad inventory Program 03/23/2010

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

lue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

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

= Concession Route Flag ON

= Subcomponent Flag ON

Page 1 of 2

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

### **MACA**

Shading Color Key: Red text denotes

approx. mileage

Asset E	sset Entered in FMSS System										
Rte.	FMSS No.	d wo	Davida Nama	Route Desc	•	oncess	Func. Class	Paved	Un- Paved Miles	Total Route Length	Manual Rated
NO.	140.	Su	Route Name	From	То	8 8	I 5	Miles	Miles	Length	SQ/FT
0903ZZ	50184		RANGER TRAINING CENTER PARKING AREAS	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING AREAS			0.00	0.00	0.00	13,801
0931ZZ	50180		PICNIC GROUNDS PARKING AREAS	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)				0.00	0.00	0.00	10,849

Asset I	Asset MACA-0903ZZ Subcomponent Breakdown										
Rte.	FMSS	d E		Route	Description	ncess ute	JC. SS	Paved	Un- Paved	Total Route	Manual Rated
No.	No.	Sul	Route Name	From	То	S 8	Fun	Miles	Miles	Length	SQ/FT
0903AZ	50184		RANGER TRAINING CENTER PARKING AREA A	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING			0.00	0.00	0.00	9,974
0903BZ	50184		RANGER TRAINING CENTER PARKING AREA B	ADJACENT TO ROUTE 0903AZ (RANGER TRAINING CENTER PARKING AREA A)				0.00	0.00	0.00	3,827

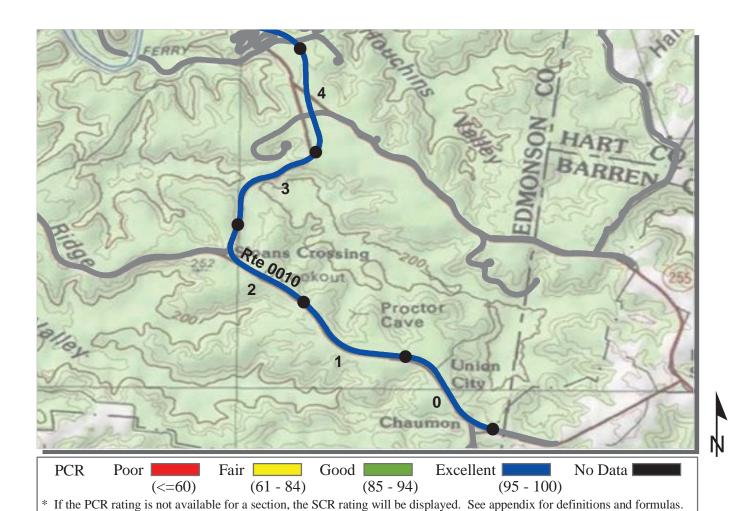
Asset	MACA-0	931	ZZ Subcomponent Breakd	own							
Rte. No.	FMSS No.	Sub	Route Name	Route Descriptio From	ı To	Concess Route	Func. Class	Paved Miles	Un- Paved Miles	Total Route Length	Manual Rated SQ/FT
0931AZ	50180		PICNIC GROUNDS PARKING AREA A	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.11 ON LEFT				0.00	0.00	0.00	1,147
0931BZ	50180		PICNIC GROUNDS PARKING AREA B	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.12 ON LEFT				0.00	0.00	0.00	1,039
0931CZ	50180		PICNIC GROUNDS PARKING AREA C	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.20 ON LEFT				0.00	0.00	0.00	3,452
0931DZ	50180		PICNIC GROUNDS PARKING AREA D	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.21 ON LEFT				0.00	0.00	0.00	1,478
0931EZ	50180		PICNIC GROUNDS PARKING AREA E	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.38 ON LEFT				0.00	0.00	0.00	2,276

NPS/RIP Subcomponent Details for MACA										
Road Inventory Progra	ım 0	3/23/2010	(Numerical By Subcon	mponent #)						Page 2 of 2
Shading Color Key:	Wł	hite = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Area	S	G	reen = All Unpa	ved Parkin	g Areas	
Red text denotes approx. mileage  Grey = Paved Routes, ARAN not Driven			Black = Paved State, Local or Private non-NPS Routes, ARAN Driven			sion F	Route Flag ON	= Subcomponent Flag ON		
	**	Unpaved Routes displayed on report were obta	ained from FMSS database and not inventoried by Ro	oad Inventory Program (RIP)						
MACA		MAMMOTH CAVE NATIONAL PAR	К							
0931FZ 50180		PICNIC GROUNDS PARKING AREA F	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.39 ON LEFT				0.00	0.00	0.00	1,458
	,									

# Mammoth Cave National Park



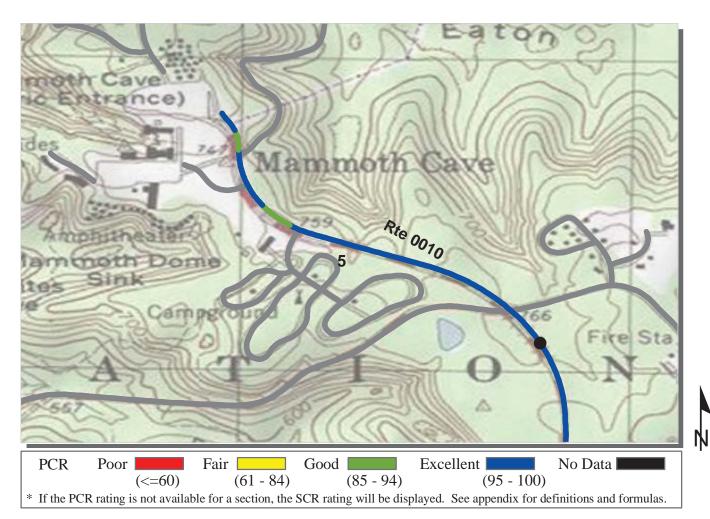
Section 5
Paved Route Condition Rating Sheets
(CRS)



ROUTE: 0010 MAMMOTH CAVE PARKWAY MACA: MAMMOTH CAVE NATIONAL PARK

	<b>COLLECTED:</b>	5/5/2009
SOUTHEAST REGION	TOTAL LENGTH:	<b>5.74 Miles</b>

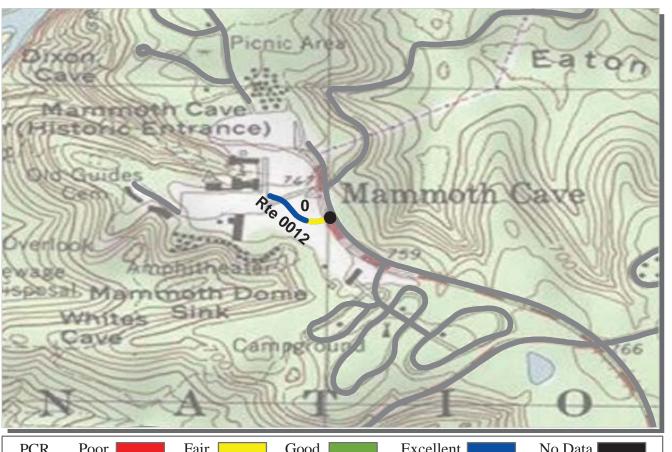
SOUTHEAST REGION			TOTAL	LENGTH:	<b>5.74 Miles</b>
Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic  AADT  SADT  ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traf		ot.gov	
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	26	21	25	23	21
Lane Width (ft)	11	10	10	10	9
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	100	100	100	99	100
PCR (Pavement Condition Rating)	100	100	100	99	100
Distress Index Values					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	100	100	100	100	100
Tranverse Cracking Index	100	100	100	100	100
Patching Index	100	100	100	100	100
Rutting Index	100	100	100	100	100
Roughness Condition Index (RCI)	100	100	100	100	99



ROUTE: 0010 MAMMOTH CAVE PARKWAY MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/5/2009
TOTAL LENGTH: 5.74 Miles

SOUTHEAST REGION	TOTAL LENGTH:				<b>5.74 Miles</b>
Section Number	5				
Section Length (mi)	0.74				
Traffic  AADT  SADT  ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traff		t.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	100				
PCR (Pavement Condition Rating)	99				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	100				
Roughness Condition Index (RCI)	97				

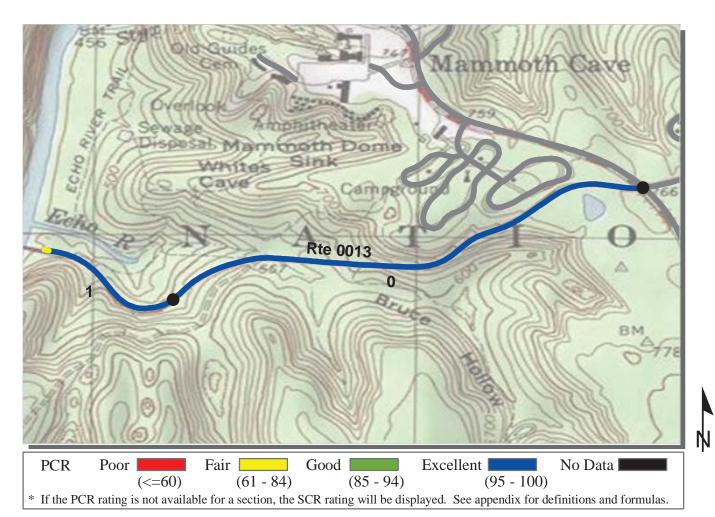




ROUTE: 0012 HOTEL ENTRANCE ROAD MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/5/2009
TOTAL LENGTH: 0.12 Miles

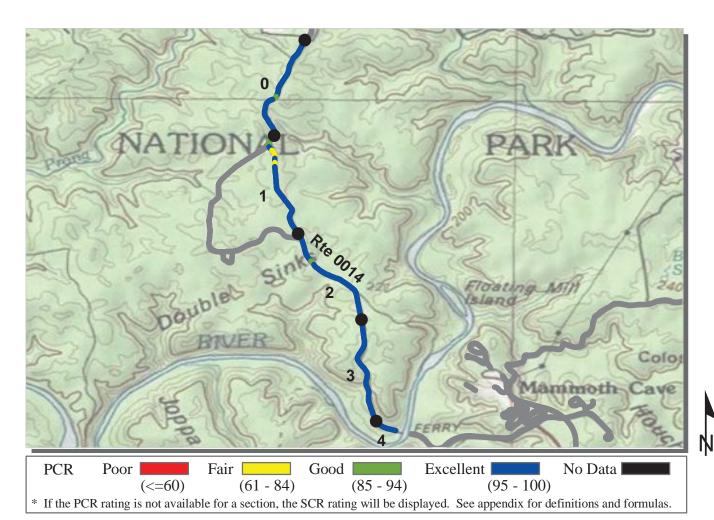
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.12 Miles</b>
Section Number	0				
Section Length (mi)	0.12				
Traffic  AADT  SADT  ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traf	Traffic Data	ot.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	94				
PCR (Pavement Condition Rating)	85				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	94				
Roughness Condition Index (RCI)	70				



ROUTE: 0013 GREEN RIVER FERRY ROAD SOUTH MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/29/2009
TOTAL LENGTH: 1.31 Miles

SOUTHEAST REGION			TOTAL	LENGTH:	<b>1.31 Miles</b>	
Section Number	0	1				
Section Length (mi)	1.00	0.31				
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	2				
Paved Width (ft)	21	23				
Lane Width (ft)	9	9				
Shoulder Width Right (ft)	NC	NC				
Shoulder Width Left (ft)	NC	NC				
Roadway Condition Information						
SCR (Surface Condition Rating)	99	99				
PCR (Pavement Condition Rating)	99	98				
Distress Index Values						
Alligator Cracking Index	100	100				
Longitudinal Cracking Index	100	100				
Tranverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	99				
Roughness Condition Index (RCI)	98	99				
	·				·	



ROUTE: 0014 GREEN RIVER FERRY ROAD NORTH MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/29/2009
TOTAL LENGTH: 4.18 Miles

SOUTHEAST REGION			TOTAL	LENGTH:	<b>4.18 Miles</b>	
Section Number	0	1	2	3	4	
Section Length (mi)	1.00	1.00	1.00	1.00	0.18	
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	2	2	2	2	
Paved Width (ft)	18	18	18	18	19	
Lane Width (ft)	8	8	8	8	8	
Shoulder Width Right (ft)	NC	NC	NC	NC	NC	
Shoulder Width Left (ft)	NC	NC	NC	NC	NC	
Roadway Condition Information						
SCR (Surface Condition Rating)	99	99	99	99	98	
PCR (Pavement Condition Rating)	97	96	98	98	96	
Distress Index Values						
Alligator Cracking Index	100	100	100	100	100	
Longitudinal Cracking Index	100	100	100	100	100	
Tranverse Cracking Index	100	100	100	100	100	
Patching Index	100	100	100	100	100	
Rutting Index	100	100	100	99	98	
Roughness Condition Index (RCI)	94	90	97	97	92	





**COLLECTED:** 

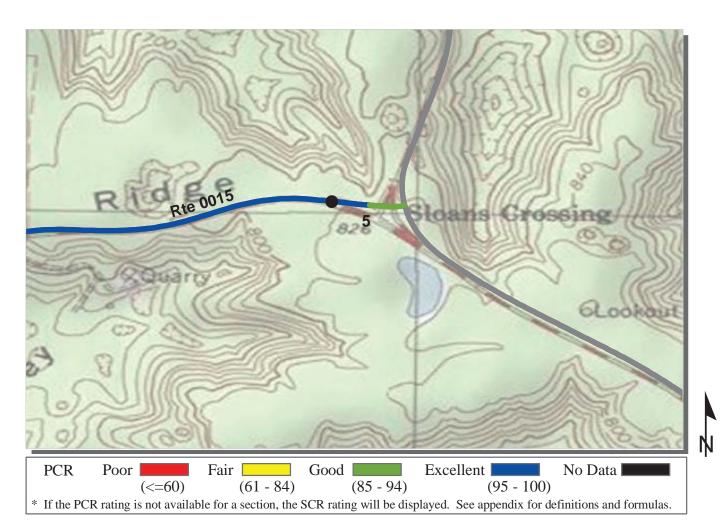
5/29/2009

**ROUTE: 0015 BROWNSVILLE ROAD** 

**MACA: MAMMOTH CAVE NATIONAL PARK** 

COLUMITE	A OT DECION	

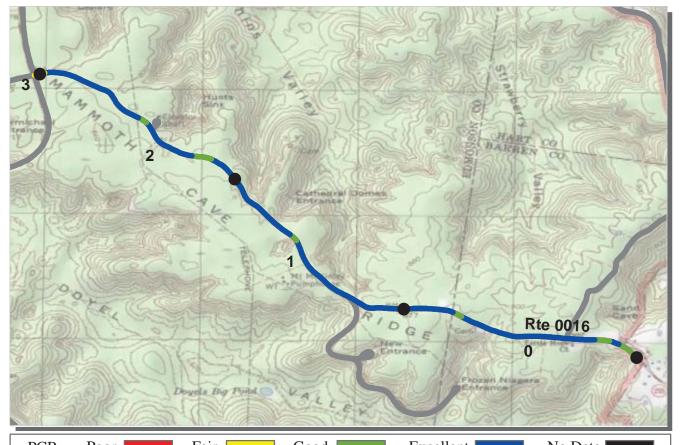
SOUTHEAST REGION			TOTAL	LENGTH:	<b>5.10 Miles</b>	
Section Number	0	1	2	3	4	
Section Length (mi)	1.00	1.00	1.00	1.00	1.00	
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	2	2	2	2	
Paved Width (ft)	21	21	21	21	21	
Lane Width (ft)	9	9	9	9	9	
Shoulder Width Right (ft)	NC	NC	NC	NC	NC	
Shoulder Width Left (ft)	NC	NC	NC	NC	NC	
Roadway Condition Information						
SCR (Surface Condition Rating)	100	100	100	100	100	
PCR (Pavement Condition Rating)	100	100	100	100	99	
Distress Index Values						
Alligator Cracking Index	100	100	100	100	100	
Longitudinal Cracking Index	100	100	100	100	100	
Tranverse Cracking Index	100	100	100	100	100	
Patching Index	100	100	100	100	100	
Rutting Index	100	100	100	100	100	
Roughness Condition Index (RCI)	100	100	100	100	99	



**ROUTE: 0015 BROWNSVILLE ROAD** 

MACA: MAMMOTH CAVE NATIONAL PARK

			CO	LLECTED:	5/29/2009
SOUTHEAST REGION			TOTAL	LENGTH:	<b>5.10 Miles</b>
Section Number	5				
Section Length (mi)	0.10				
Traffic AADT SADT ADT Date	Click on PRO	nay be found at OGRAMS / NPS I parks have traf		ot.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information	1				
SCR (Surface Condition Rating)	95				
PCR (Pavement Condition Rating)	95				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	95				
Roughness Condition Index (RCI)	100				



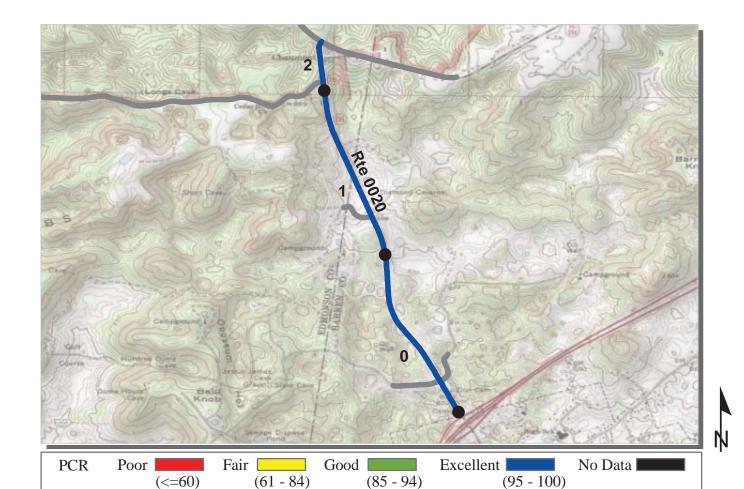
PCR Poor Fair Good Excellent No Data (<=60) (61 - 84) (85 - 94) (95 - 100)

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

**ROUTE: 0016 CAVE CITY ROAD** 

MACA: MAMMOTH CAVE NATIONAL PARK

				LLECTED:	5/30/2009
SOUTHEAST REGION			TOTAL	LENGTH:	<b>3.02 Miles</b>
Section Number	0	1	2	3	
Section Length (mi)	1.00	1.00	1.00	0.02	
Traffic	Traffic data n	nay be found at y	www.efl.fhwa.dc	nt.gov	
AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information		<u> </u>	1		
Number of Lanes	2	2	2	2	
Paved Width (ft)	20	21	21	22	
Lane Width (ft)	9	9	9	9	
Shoulder Width Right (ft)	NC	NC	NC	NC	
Shoulder Width Left (ft)	NC	NC	NC	NC	
Roadway Condition Information					
SCR (Surface Condition Rating)	98	98	96	87	
PCR (Pavement Condition Rating)	96	99	96	83	
Distress Index Values					
Alligator Cracking Index	100	100	100	100	
Longitudinal Cracking Index	100	100	100	100	
Tranverse Cracking Index	100	100	100	99	
Patching Index	100	100	100	100	
Rutting Index	99	98	96	88	
Roughness Condition Index (RCI)	93	99	98	77	



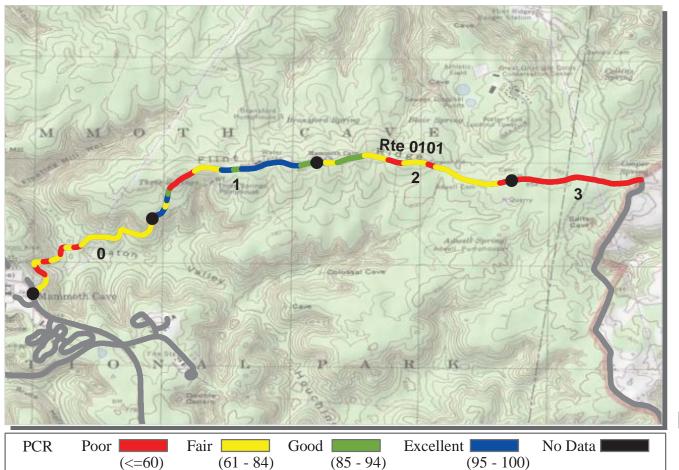
ROUTE: 0020 PARK CITY ROAD

MACA: MAMMOTH CAVE NATIONAL PARK

	COLLECTED:	5/5/2009
SOUTHEAST REGION	TOTAL LENGTH:	<b>2.28 Miles</b>

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

SOUTHEAST REGION			TOTA	L LENGTH:	<b>2.28 Miles</b>	
Section Number	0	1	2			
Section Length (mi)	1.00	1.00	0.28			
<i>Traffic</i> AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	2	2			
Paved Width (ft)	24	25	26			
Lane Width (ft)	10	10	11			
Shoulder Width Right (ft)	NC	NC	NC			
Shoulder Width Left (ft)	NC	NC	NC			
Roadway Condition Information						
SCR (Surface Condition Rating)	99	100	99			
PCR (Pavement Condition Rating)	99	100	98			
Distress Index Values						
Alligator Cracking Index	100	100	100			
Longitudinal Cracking Index	100	100	100			
Tranverse Cracking Index	100	100	100			
Patching Index	100	100	100			
Rutting Index	99	100	99			
Roughness Condition Index (RCI)	100	99	97	<u>                                     </u>		



(<=60) (61 - 84) (85 - 94) (95 - 100)

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

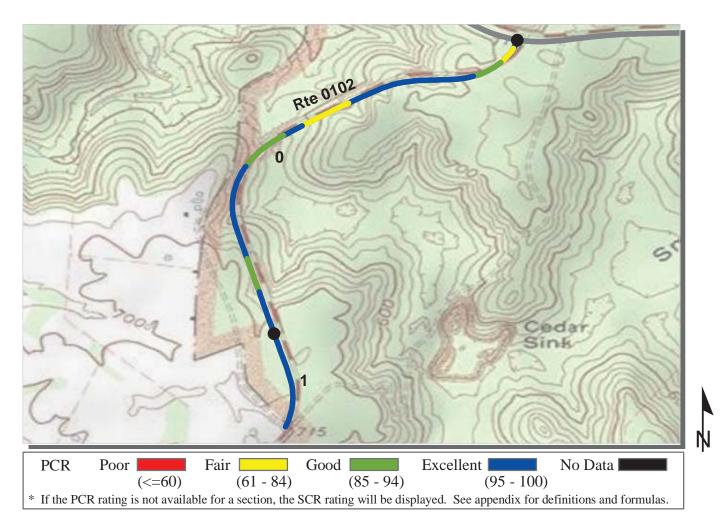
**COLLECTED:** 

5/30/2009

**ROUTE: 0101 FLINT RIDGE ROAD** 

**MACA: MAMMOTH CAVE NATIONAL PARK** 

SOUTHEAST REGION			TO	TAL LENGTH:	<b>3.63 Miles</b>		
Section Number	0	1	2	3			
Section Length (mi)	1.00	1.00	1.00	0.63			
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)						
Cross Section Information							
Number of Lanes	2	2	2	2			
Paved Width (ft)	19	19	18	15			
Lane Width (ft)	9	8	8	7			
Shoulder Width Right (ft)	NC	NC	NC	NC			
Shoulder Width Left (ft)	NC	NC	NC	NC			
Roadway Condition Information							
SCR (Surface Condition Rating)	60	77	64	49			
PCR (Pavement Condition Rating)	66	82	72	45			
Distress Index Values							
Alligator Cracking Index	90	99	93	95			
Longitudinal Cracking Index	83	85	86	96			
Tranverse Cracking Index	98	98	97	99			
Patching Index	100	100	100	100			
Rutting Index	90	96	87	57			
Roughness Condition Index (RCI)	74	89	85	40			

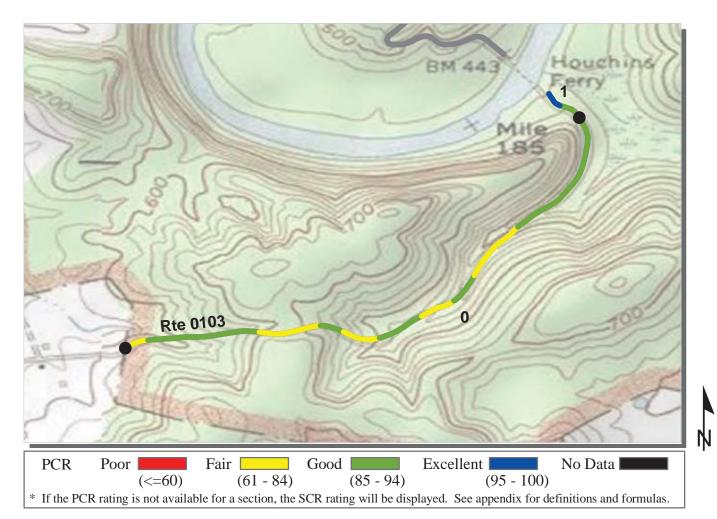


**ROUTE: 0102 CEDAR SINK ROAD** 

NC - Not Collected

MACA: MAMMOTH CAVE NATIONAL PARK

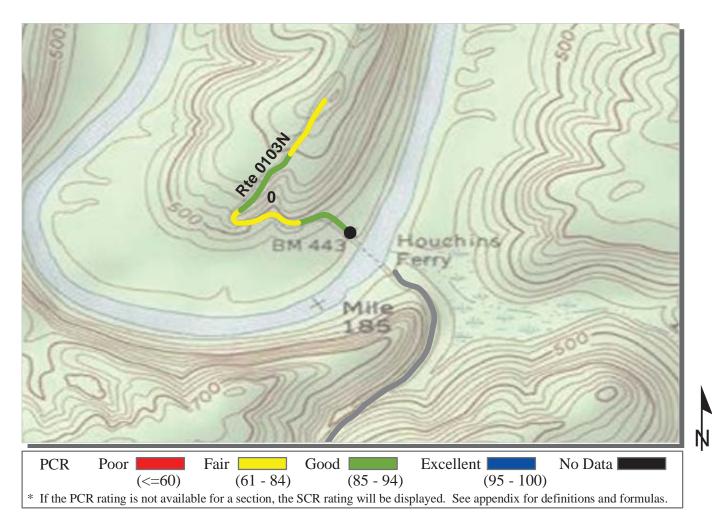
			CO	LLECTED:	5/29/2009
SOUTHEAST REGION			TOTAL	LENGTH:	<b>1.22 Miles</b>
Section Number	0	1			
Section Length (mi)	1.00	0.22			
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	20	20			
Lane Width (ft)	9	9			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	89	91			
PCR (Pavement Condition Rating)	92	95			
Distress Index Values					
Alligator Cracking Index	99	100			
Longitudinal Cracking Index	96	97			
Tranverse Cracking Index	98	96			
Patching Index	100	100			
Rutting Index	96	98			
Roughness Condition Index (RCI)	96	100			



ROUTE: 0103 HOUCHINS FERRY ROAD SOUTH MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/30/2009
TOTAL LENGTH: 1.07 Miles

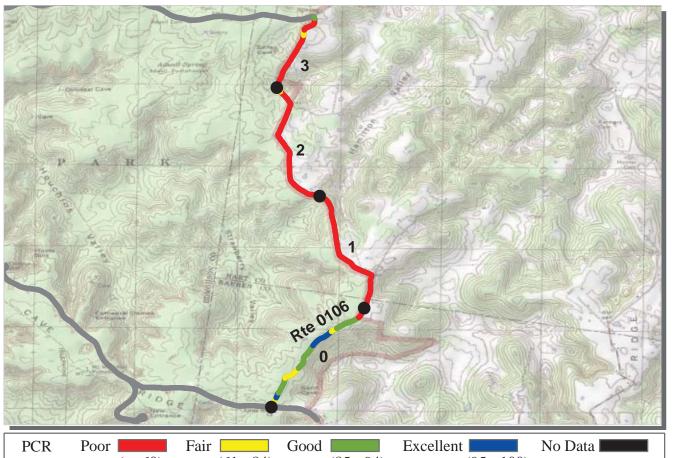
SOUTHEAST REGION				LENGTH:	<b>1.07 Miles</b>	
Section Number	0	1				
Section Length (mi)	1.00	0.07				
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	2				
Paved Width (ft)	18	18				
Lane Width (ft)	8	8				
Shoulder Width Right (ft)	NC	NC				
Shoulder Width Left (ft)	NC	NC				
Roadway Condition Information						
SCR (Surface Condition Rating)	95	95				
PCR (Pavement Condition Rating)	84	89				
Distress Index Values						
Alligator Cracking Index	100	100				
Longitudinal Cracking Index	100	100				
Tranverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	96	95				
Roughness Condition Index (RCI)	66	31				
NG Net Cellerted	·	·	·	·	-	



ROUTE: 0103N HOUCHINS FERRY ROAD NORTH MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/30/2009
TOTAL LENGTH: 0.50 Miles

SOUTHEAST REGION			LENGTH:	<b>0.50</b> Miles	
0					
0.50					
Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
2					
16					
9					
NC					
NC					
92					
83					
99					
98					
100					
100					
95					
63					
	0.50  Traffic data n Click on PRC (Note: Not all  2 16 9 NC NC 92 83  99 98 100 100 95	Traffic data may be found at v Click on PROGRAMS / NPS (Note: Not all parks have traff)  2 16 9 NC NC NC 92 83 99 98 100 100 95	Traffic data may be found at www.efl.fhwa.do Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)  2 16 9 NC NC 92 83 99 98 100 100 95	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)  2 16 9 NC NC NC 92 83 99 98 100 100 95	



(61 - 84)(85 - 94)(95 - 100)(<=60)\* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

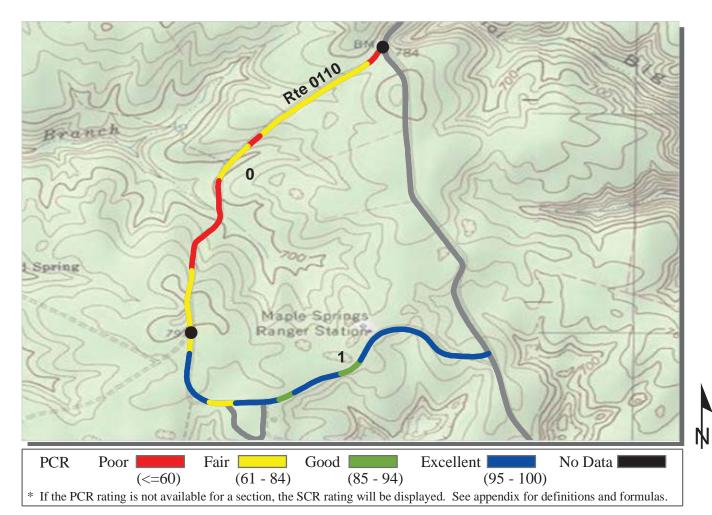
**COLLECTED:** 

5/30/2009

### **ROUTE: 0106 PARK RIDGE ROAD**

#### MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION			TO	TAL LENGTH:	<b>3.61 Miles</b>	
Section Number	0	1	2	3		
Section Length (mi)	1.00	1.00	1.00	0.61		
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	1	1	1		
Paved Width (ft)	15	11	10	10		
Lane Width (ft)	8	11	10	10		
Shoulder Width Right (ft)	NC	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC	NC		
Roadway Condition Information						
SCR (Surface Condition Rating)	89	50	45	48		
PCR (Pavement Condition Rating)	85	49	46	48		
Distress Index Values						
Alligator Cracking Index	98	99	96	96		
Longitudinal Cracking Index	98	98	97	96		
Tranverse Cracking Index	100	100	100	99		
Patching Index	100	100	100	100		
Rutting Index	95	54	52	58		
Roughness Condition Index (RCI)	79	46	47	50		



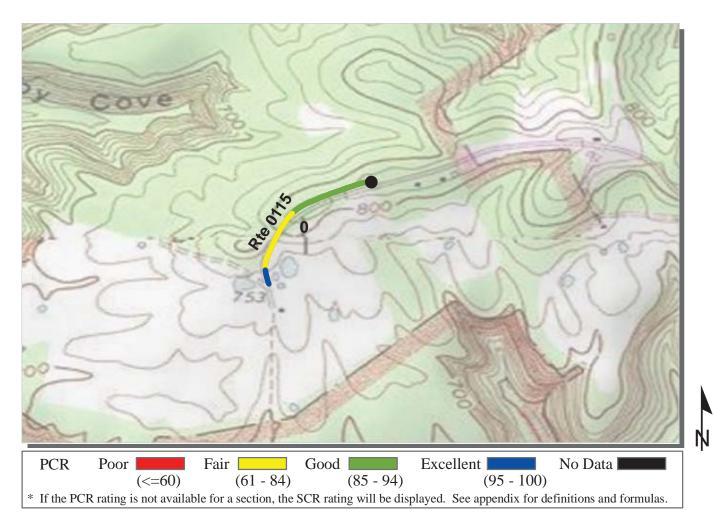
**COLLECTED:** 

5/29/2009

ROUTE: 0110 MAPLE SPRINGS LOOP

**MACA: MAMMOTH CAVE NATIONAL PARK** 

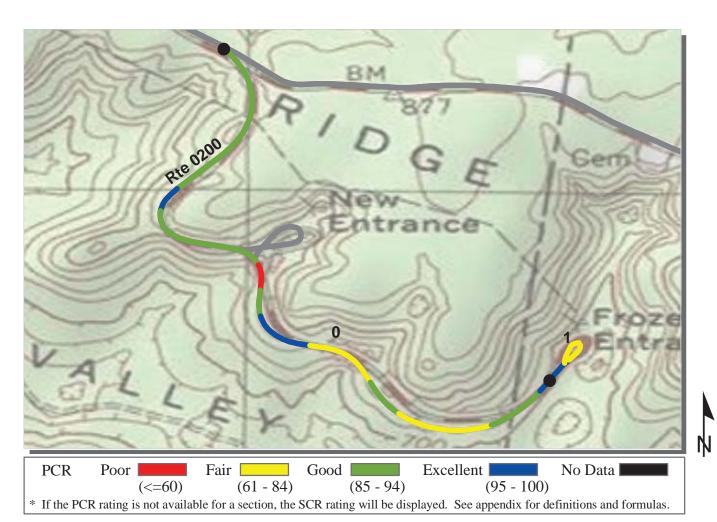
SOUTHEAST REGION			TOTAL	LENGTH:	<b>1.96 Miles</b>
Section Number	0	1			
Section Length (mi)	1.00	0.96			
Traffic AADT SADT ADT Date	Click on PF	may be found at v ROGRAMS / NPS all parks have traf	Traffic Data	t.gov	
Cross Section Information					
Number of Lanes	1	2			
Paved Width (ft)	9	23			
Lane Width (ft)	9	9			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	71	97			
PCR (Pavement Condition Rating)	61	94			
Distress Index Values					
Alligator Cracking Index	96	100			
Longitudinal Cracking Index	98	100			
Tranverse Cracking Index	100	100			
Patching Index	100	100			
Rutting Index	78	97			
Roughness Condition Index (RCI)	43	90			



ROUTE: 0115 OLLIE RIDGE ROAD (GREAT ONYX JOB CORP CENTER)

MACA: MAMMOTH CAVE NATIONAL PARK

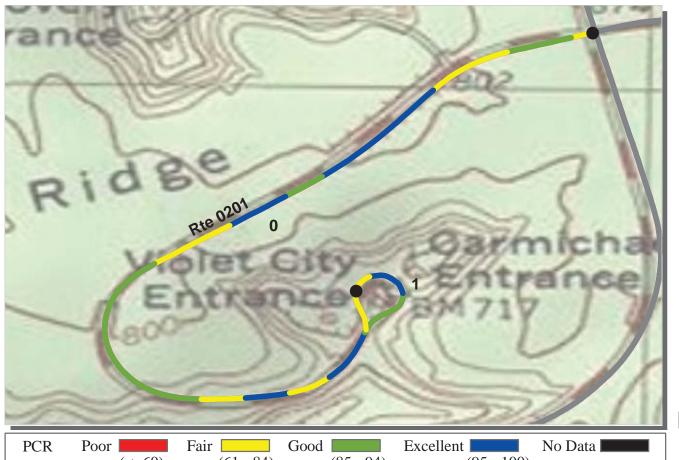
			CO	LLECTED:	5/29/2009	
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.29 Miles</b>	
Section Number	0					
Section Length (mi)	0.29					
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	20					
Lane Width (ft)	10					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	83					
PCR (Pavement Condition Rating)	87					
Distress Index Values						
Alligator Cracking Index	96					
Longitudinal Cracking Index	95					
Tranverse Cracking Index	99					
Patching Index	100					
Rutting Index	93					
Roughness Condition Index (RCI)	95					



ROUTE: 0200 FROZEN NIAGARA ENTRANCE ROAD MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/5/2009
TOTAL LENGTH: 1.10 Miles

0	4			
U	1			
1.00	0.10			
Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
2	2			
20	18			
9	13			
NC	NC			
NC	NC			
85	87			
85	88			
96	100			
95	94			
98	96			
100	100			
96	98			
86	100			
	1.00 Traffic d Click on (Note: N  2 20 9 NC NC  85 85 96 95 98 100 96	1.00   0.10    Traffic data may be found Click on PROGRAMS / N (Note: Not all parks have to the second seco	1.00     0.10       Traffic data may be found at www.efl.fhwa.do Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)       2     2       20     18       9     13       NC     NC       NC     NC       85     87       85     88       96     100       95     94       98     96       100     100       96     98	1.00



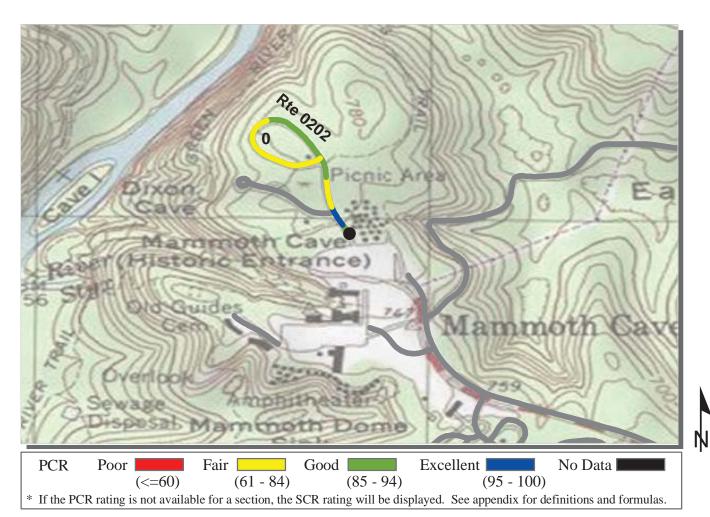
(<=60) (61 - 84) (85 - 94) (95 - 100)

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

ROUTE: 0201 CARMICHAEL ENTRANCE ROAD MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/5/2009
TOTAL LENGTH: 1.04 Miles

SOUTHEAST REGION			TOTAL	LENGTH:	<b>1.04 Miles</b>	
Section Number	0	1				
Section Length (mi)	1.00	0.04				
<i>Traffic</i> AADT	1	•	at www.efl.fhwa.do	ot.gov		
SADT ADT Date	Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2	1				
Paved Width (ft)	20	18				
Lane Width (ft)	10	18				
Shoulder Width Right (ft)	NC	NC				
Shoulder Width Left (ft)	NC	NC				
Roadway Condition Information						
SCR (Surface Condition Rating)	87	88				
PCR (Pavement Condition Rating)	88	80				
Distress Index Values						
Alligator Cracking Index	98	100				
Longitudinal Cracking Index	95	100				
Tranverse Cracking Index	98	100				
Patching Index	100	100				
Rutting Index	96	88				
Roughness Condition Index (RCI)	91	68				
<u> </u>			<u> </u>	<u> </u>		



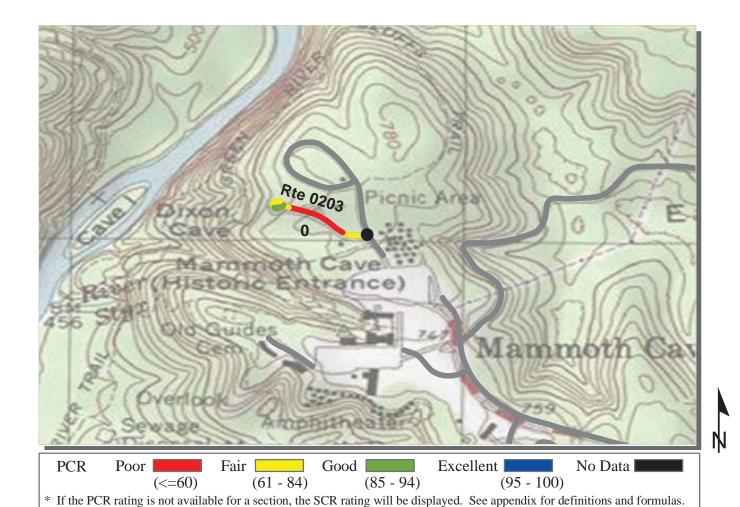
**COLLECTED:** 

5/27/2009

### ROUTE: 0202 VISITOR CENTER PICNIC GROUNDS ROAD

MACA: MAMMOTH CAVE NATIONAL PARK

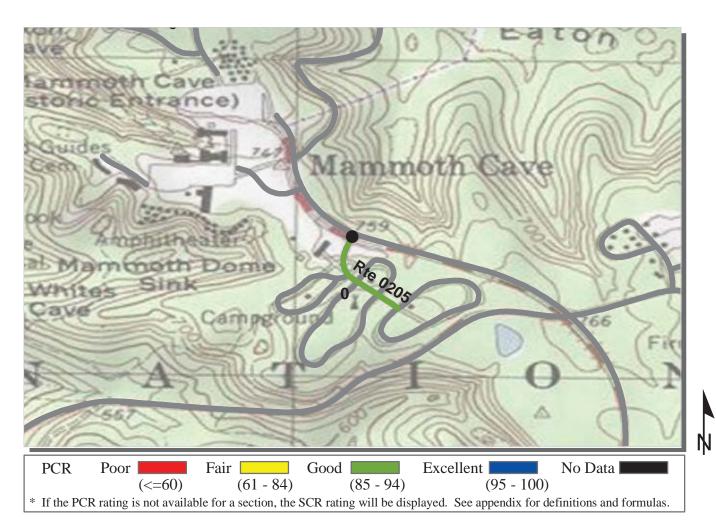
			00.	ELLCTLD.	0/2//2002	
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.45 Miles</b>	
Section Number	0					
Section Length (mi)	0.45					
Traffic	Troffic data n	any ha found at y	varay of flavo do	t gov		
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
SADT						
ADT Date	,	1	,			
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	15					
Lane Width (ft)	11					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	85					
PCR (Pavement Condition Rating)	82					
Distress Index Values						
Alligator Cracking Index	98					
Longitudinal Cracking Index	95					
Tranverse Cracking Index	99					
Patching Index	100					
Rutting Index	94					
Roughness Condition Index (RCI)	73					



ROUTE: 0203 VISITOR CENTER PICNIC SHELTER ROAD

MACA: MAMMOTH CAVE NATIONAL PARK

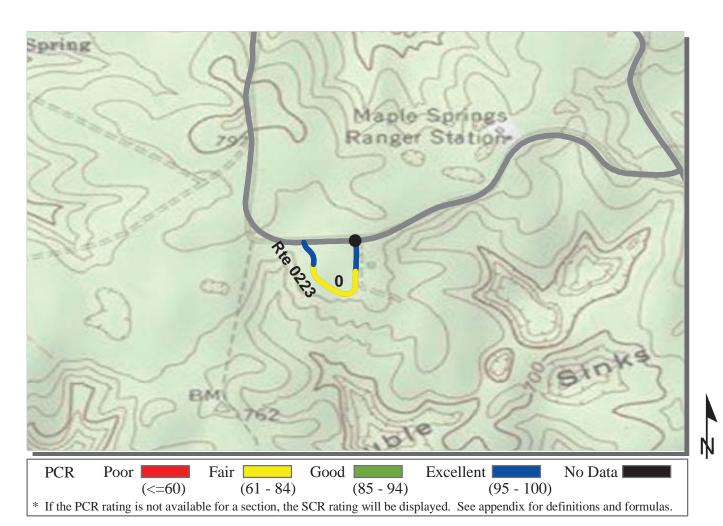
			CO	LLECTED:	5/27/2009	
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.19 Miles</b>	
Section Number	0					
Section Length (mi)	0.19					
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	17					
Lane Width (ft)	11					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	63					
PCR (Pavement Condition Rating)	63					
Distress Index Values						
Alligator Cracking Index	100					
Longitudinal Cracking Index	94					
Tranverse Cracking Index	100					
Patching Index	100					
Rutting Index	70					
Roughness Condition Index (RCI)	48					



ROUTE: 0205 HQ CAMPGROUND ACCESS ROAD MACA: MAMMOTH CAVE NATIONAL PARK

	<b>COLLECTED:</b>	5/5/2009
SOUTHEAST REGION	TOTAL LENGTH:	<b>0.18 Miles</b>

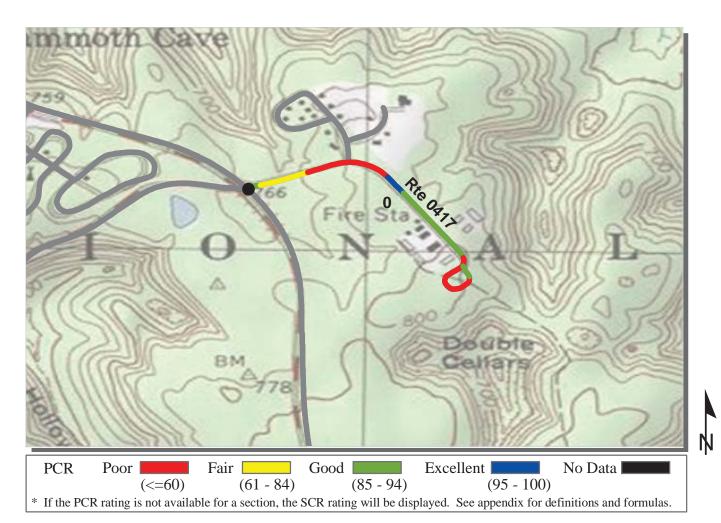
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.18 Miles</b>	
Section Number	0					
Section Length (mi)	0.18					
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	25					
Lane Width (ft)	10					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	87					
PCR (Pavement Condition Rating)	88					
Distress Index Values						
Alligator Cracking Index	99					
Longitudinal Cracking Index	94					
Tranverse Cracking Index	98					
Patching Index	100					
Rutting Index	95					
Roughness Condition Index (RCI)	92					



ROUTE: 0223 MAPLE SPRINGS LOOP CAMPGROUND MACA: MAMMOTH CAVE NATIONAL PARK

COLLECTED: 5/29/2009

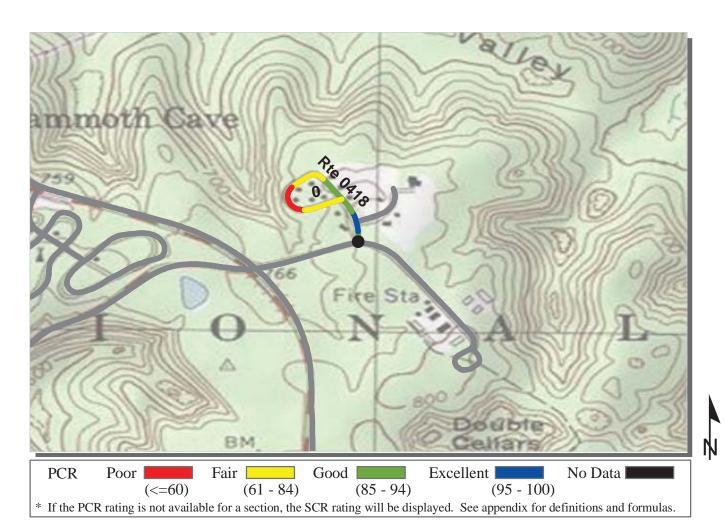
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.25 Miles</b>	
Section Number	0					
Section Length (mi)	0.25					
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	1					
Paved Width (ft)	12					
Lane Width (ft)	12					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	99					
PCR (Pavement Condition Rating)	87					
Distress Index Values						
Alligator Cracking Index	100					
Longitudinal Cracking Index	100					
Tranverse Cracking Index	100					
Patching Index	100					
Rutting Index	99					
Roughness Condition Index (RCI)	41					



ROUTE: 0417 PARK MAINTENANCE ROAD MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/5/2009
TOTAL LENGTH: 0.58 Miles

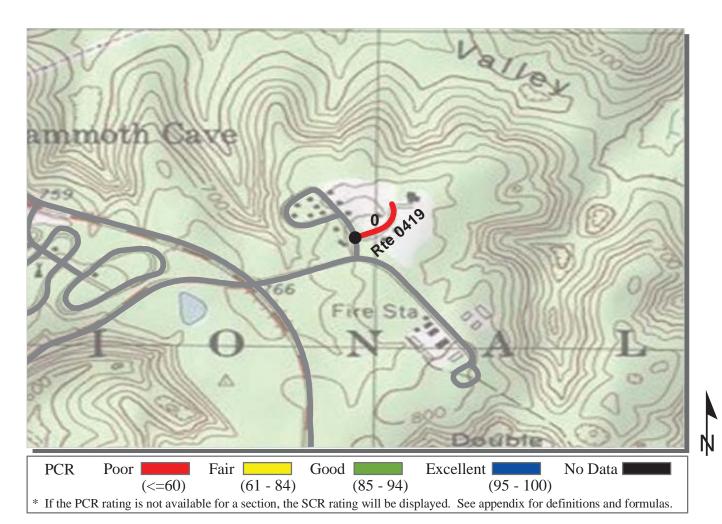
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.58 Miles</b>	
Section Number	0					
Section Length (mi)	0.58					
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	18					
Lane Width (ft)	10					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	71					
PCR (Pavement Condition Rating)	71					
Distress Index Values						
Alligator Cracking Index	88					
Longitudinal Cracking Index	93					
Tranverse Cracking Index	99					
Patching Index	100					
Rutting Index	92					
Roughness Condition Index (RCI)	73					



ROUTE: 0418 RESIDENCE LOOP ROAD MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/5/2009
TOTAL LENGTH: 0.32 Miles

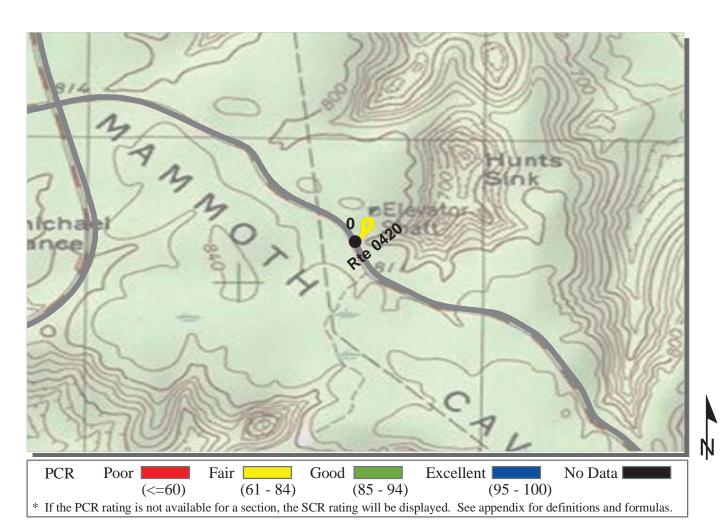
SOUTHEAST REGION			TOTAL	LENGTH:	0.32 Miles	
Section Number	0					
Section Length (mi)	0.32					
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information						
Number of Lanes	2					
Paved Width (ft)	17					
Lane Width (ft)	9					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	76					
PCR (Pavement Condition Rating)	76					
Distress Index Values						
Alligator Cracking Index	99					
Longitudinal Cracking Index	91					
Tranverse Cracking Index	99					
Patching Index	100					
Rutting Index	88					
Roughness Condition Index (RCI)	64					
		· · · · · · · · · · · · · · · · · · ·				



ROUTE: 0419 SUPERINTENDENT OFFICE ROAD MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/5/2009
TOTAL LENGTH: 0.10 Miles

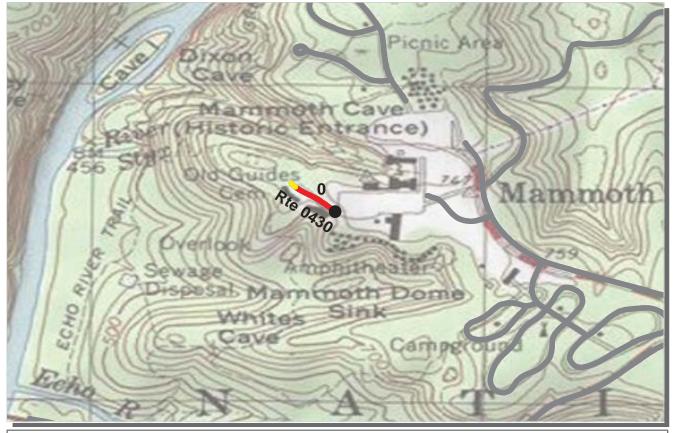
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.10 Miles</b>
Section Number	0				
Section Length (mi)	0.10				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	52				
PCR (Pavement Condition Rating)	52				
Distress Index Values					
Alligator Cracking Index	83				
Longitudinal Cracking Index	90				
Tranverse Cracking Index	95				
Patching Index	100				
Rutting Index	84				
Roughness Condition Index (RCI)	NC				
NG Net Cellerted			·		



ROUTE: 0420 ELEVATOR SHAFT ROAD MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/27/2009
TOTAL LENGTH: 0.08 Miles

SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.08 Miles</b>
Section Number	0				
Section Length (mi)	0.08				
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	8				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	74				
PCR (Pavement Condition Rating)	74				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	77				
Roughness Condition Index (RCI)	NC				
NG Net Cellerted					



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

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

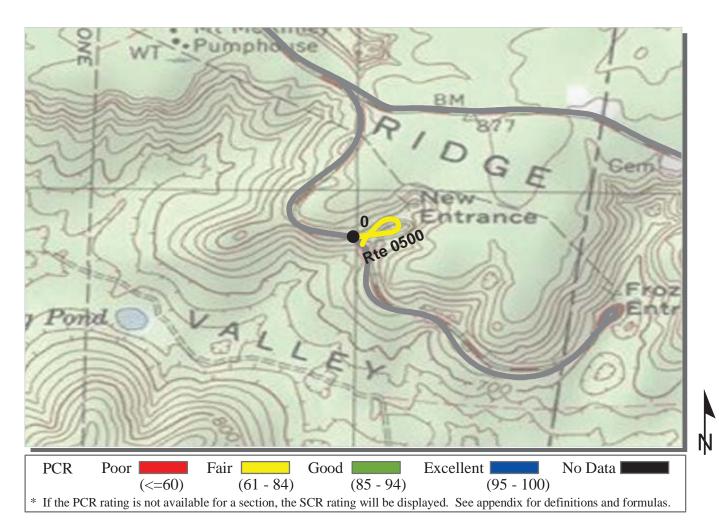
**COLLECTED:** 

5/5/2009

**ROUTE: 0430 SUNSET LODGE ROAD** 

MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.09 Miles</b>
Section Number	0				
Section Length (mi)	0.09				
Traffic AADT SADT ADT Date	Click on PRO	nay be found at OGRAMS / NPS I parks have tra		ot.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	59				
PCR (Pavement Condition Rating)	57				
Distress Index Values					
Alligator Cracking Index	91				
Longitudinal Cracking Index	88				
Tranverse Cracking Index	96				
Patching Index	99				
Rutting Index	85				
Roughness Condition Index (RCI)	59				



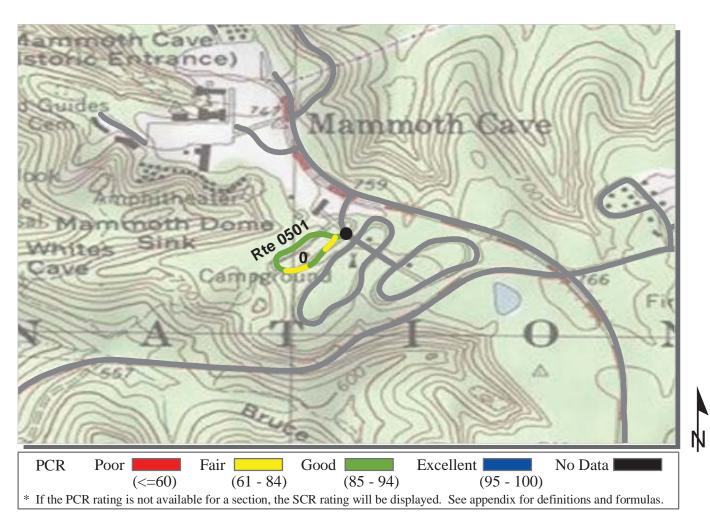
**COLLECTED:** 

5/5/2009

**ROUTE: 0500 NEW ENTRANCE LOOP** 

MACA: MAMMOTH CAVE NATIONAL PARK

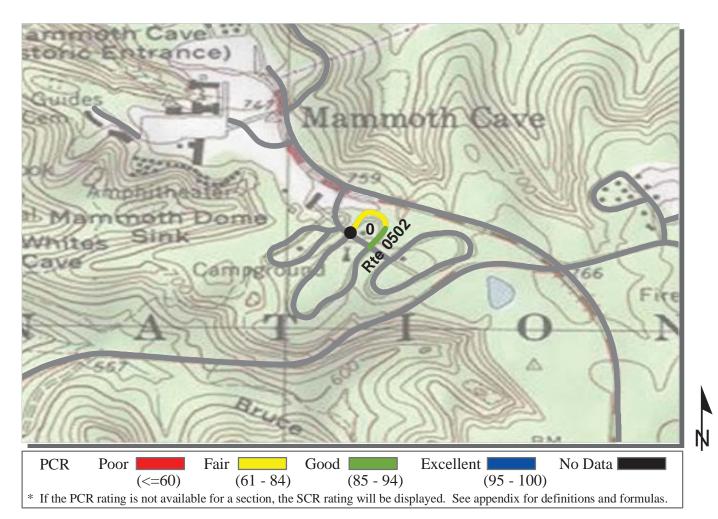
		TOTAL	LENGTH:	<b>0.16 Miles</b>
0		191112	LEI (GIII,	OTTO IVINES
0.16				
Click on PRO	ot.gov			
2				
18				
9				
NC				
NC				
68				
65				
93				
95				
94				
100				
86				
59				
	0.16  Traffic data r Click on PRO (Note: Not al)  2 18 9 NC NC 68 65 93 95 94 100 86	Traffic data may be found at Click on PROGRAMS / NPS (Note: Not all parks have traff)  2 18 9 NC NC 68 65 93 95 94 100 86	Traffic data may be found at www.efl.fhwa.doc Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)  2 18 9 NC NC 68 65 93 95 94 100 86	O.16  Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)  2 18 9 NC NC NC 68 65 93 95 94 100 86



ROUTE: 0501 VISITOR CENTER CAMPGROUND LOOP D MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/27/2009
TOTAL LENGTH: 0.26 Miles

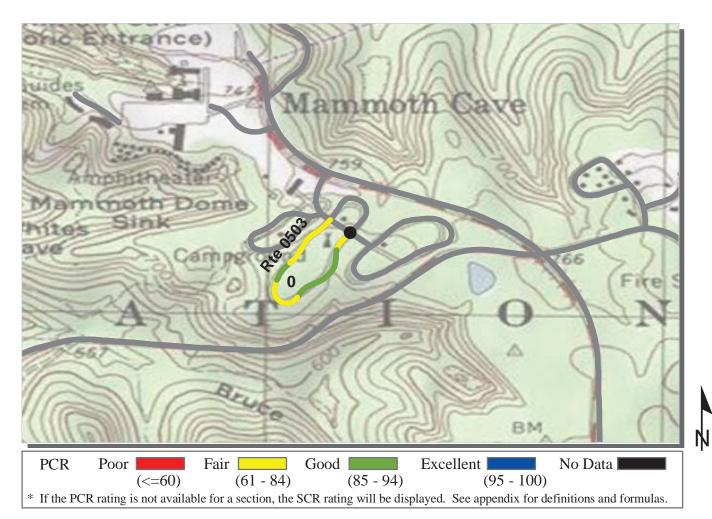
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.26 Miles</b>
Section Number	0				
Section Length (mi)	0.26				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	14				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	89				
PCR (Pavement Condition Rating)	88				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	94				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	95				
Roughness Condition Index (RCI)	74				



ROUTE: 0502 VISITOR CENTER CAMPGROUND LOOP A MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/27/2009
TOTAL LENGTH: 0.14 Miles

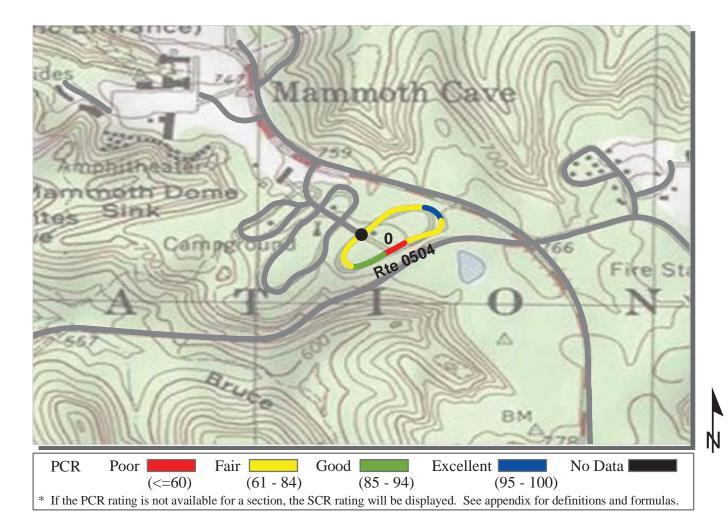
SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.14 Miles</b>
Section Number	0				
Section Length (mi)	0.14				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	79				
PCR (Pavement Condition Rating)	79				
Distress Index Values					
Alligator Cracking Index	99				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	83				
Roughness Condition Index (RCI)	NC				



ROUTE: 0503 VISITOR CENTER CAMPGROUND LOOP C MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/27/2009
TOTAL LENGTH: 0.38 Miles

SOUTHEAST REGION			TOTAL	LENGTH:	0.38 Miles
Section Number	0				
Section Length (mi)	0.38				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	86				
PCR (Pavement Condition Rating)	83				
Distress Index Values					
Alligator Cracking Index	99				
Longitudinal Cracking Index	95				
Tranverse Cracking Index	97				
Patching Index	100				
Rutting Index	94				
Roughness Condition Index (RCI)	80				



ROUTE: 0504 VISITOR CENTER CAMPGROUND LOOP B MACA: MAMMOTH CAVE NATIONAL PARK

SOUTHEAST REGION COLLECTED: 5/27/2009
TOTAL LENGTH: 0.41 Miles

SOUTHEAST REGION			TOTAL	LENGTH:	<b>0.41 Miles</b>
Section Number	0				
Section Length (mi)	0.41				
Traffic  AADT  SADT  ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	80				
PCR (Pavement Condition Rating)	77				
Distress Index Values					
Alligator Cracking Index	98				
Longitudinal Cracking Index	94				
Tranverse Cracking Index	98				
Patching Index	100				
Rutting Index	90				
Roughness Condition Index (RCI)	61				

## Mammoth Cave National Park



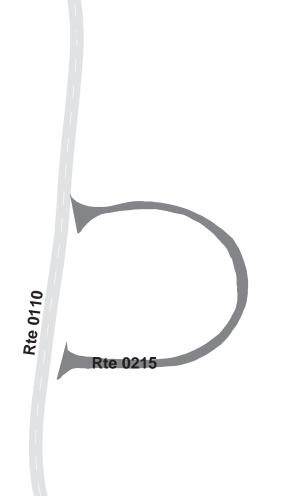
Section 6
Manually Rated Paved Route
Condition Rating Sheets (MRR)

## MAPLE SPRINGS TRAILHEAD PARKING ROAD

FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.06 ON LEFT TO ROUTE 0110 (MAPLE SPRINGS LOOP)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0215	PUBLIC	3/4	1/2009	8,479	0.15	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
3	0	0	0	GUTTER	NO CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths







#### VISITOR CENTER BUS LOOP FROM ROUTE 0012 (HOTEL ENTRANCE ROAD) TO END OF LOOP

	Route	Public /					
ı	Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
I	0224	PUBLIC	5/5	5/2009	21,542	0.37	AS
				Fire			
ı	Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
					CONCRETE CURB		
l	0	0	0	0	AND GUTTER	NO CURB	CONSTRUCT/100

<sup>\*</sup> Lane miles are based on 11' lane widths



#### HISTORIC ENTRANCE ROAD

FROM ROUTE 0901B (HOTEL SERVICES PARKING) TO END AT HISTORIC CAVE ENTRANCE

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0407	PUBLIC	5/5	5/2009	9,293	0.16	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
1	10	0	0	AND GUTTER	NO CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0901A

Rte 0407

Rte 0957 Rte 0906B  $R_{t_0}$   $o_{430}$ 

Rte 0901B



Rte 0906A



Rte 0908



LEARNING CENTER ACCESS ROAD FROM ROUTE 0110 (MAPLE SPRINGS LOOP) TO END

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0434	PUBLIC	3/4	1/2009	3,379	0.06	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	POOR/45

<sup>\*</sup> Lane miles are based on 11' lane widths







90

Pre Orga

180

180

## Mammoth Cave National Park



Section 7
Parking Area Condition Rating Sheets

#### DOYLE VALLEY OVERLOOK

ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 3.65 ON RIGHT

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0900	PUBLIC	3/3	3/2009	8,595	0.15	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

Rte 0900





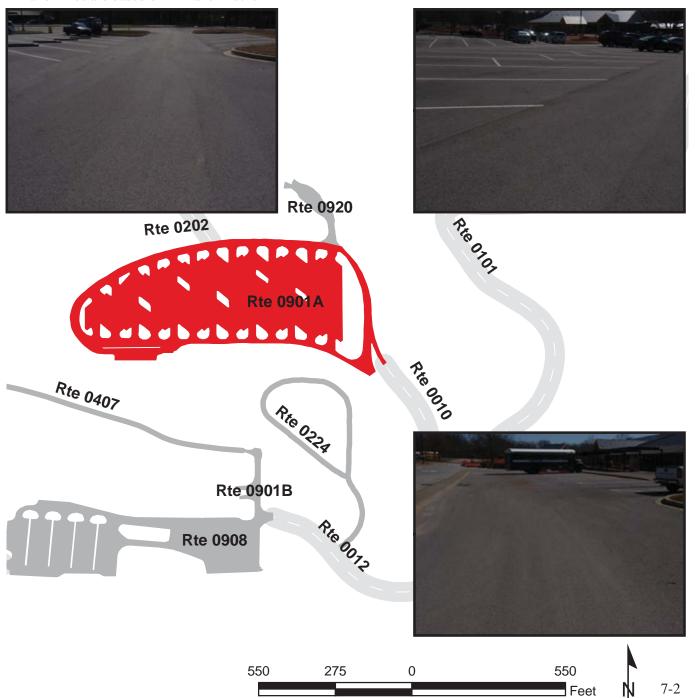


<sup>\*</sup> Lane miles are based on 11' lane widths

# VISITOR CENTER PARKING AREA FROM END OF ROUTE 0010 (MAMMOTH CAVE PARKWAY) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901A	PUBLIC	3/4	1/2009	244,777	4.21	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	25	0	0	AND GUTTER	CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths

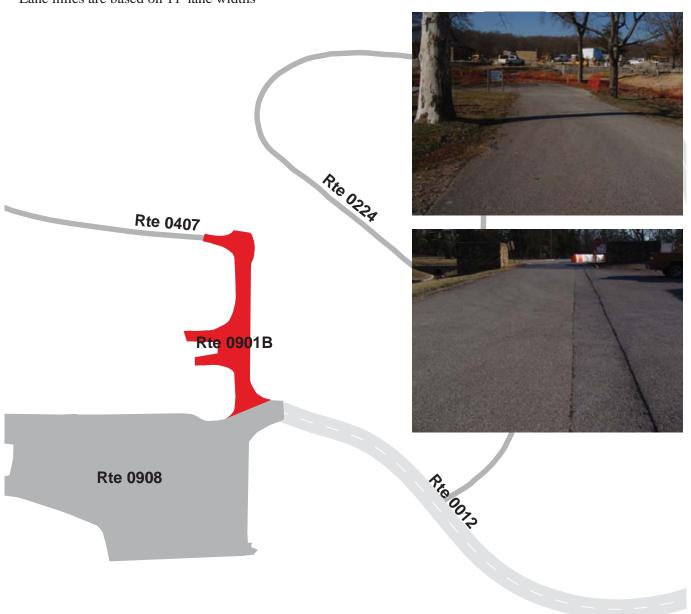


#### HOTEL SERVICES PARKING

FROM ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)
TO ROUTE 0407 (HISTORIC ENTRANCE ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901B	NONPUBLIC	3/4	1/2009	7,207	0.12	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
1	0	0	0	AND GUTTER	NO CURB	CONSTRUCT/100

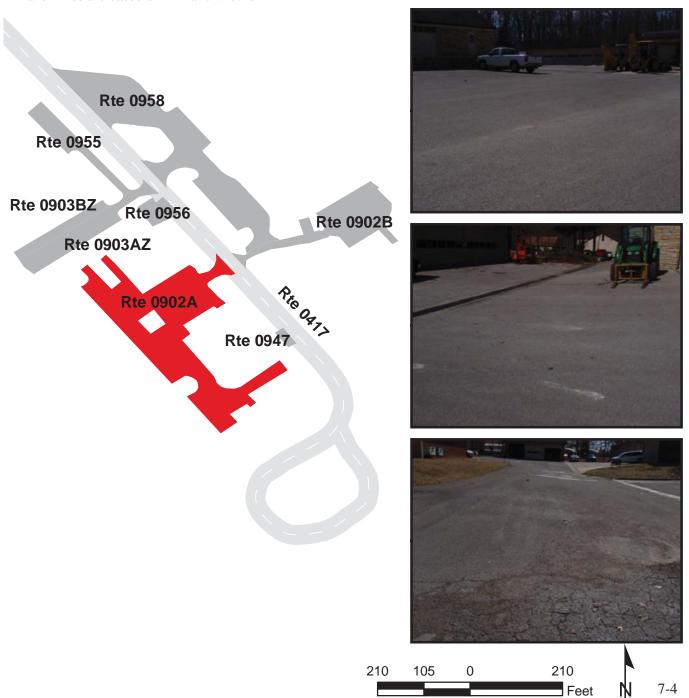
<sup>\*</sup> Lane miles are based on 11' lane widths



#### MAINTENANCE PARKING FROM ROUTE 0417 (PARK MAINTENANCE ROAD) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902A	NONPUBLIC	3/4	1/2009	43,786	0.75	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	2	0	0	GUTTER	NO CURB	FAIR/73

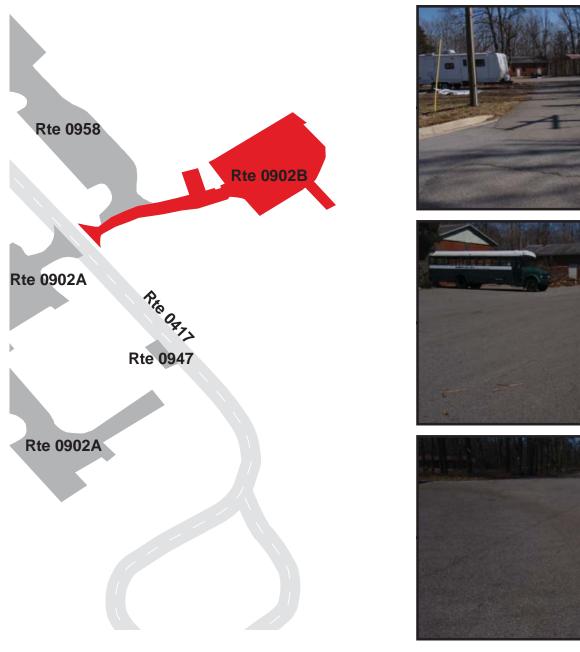
<sup>\*</sup> Lane miles are based on 11' lane widths

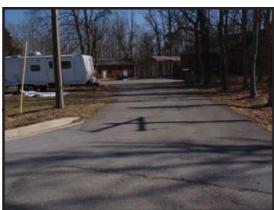


#### **CONCESSION SERVICE PARKING** FROM ROUTE 0417 (PARK MAINTENANCE ROAD) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902B	NONPUBLIC	3/4	1/2009	16,224	0.28	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
1	0	1	1	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths









7-5

### MAMMOTH CAVE NATIONAL PARK Route 0903ZZ

#### RANGER TRAINING CENTER PARKING AREAS

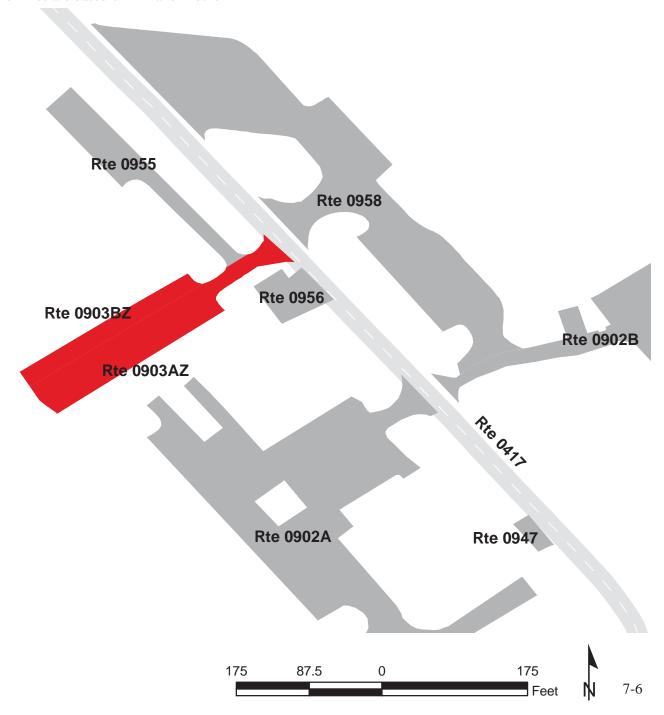
FROM ROUTE 0417 (PARK MAINTENANCE ROAD)

#### TO PARKING AREAS

Summary Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0903ZZ	NONPUBLIC	3/4	1/2009	13,801	0.24	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	SUMMARY/77.71

<sup>\*</sup> Lane miles are based on 11' lane widths



### MAMMOTH CAVE NATIONAL PARK Route 0903AZ

### RANGER TRAINING CENTER PARKING AREA A

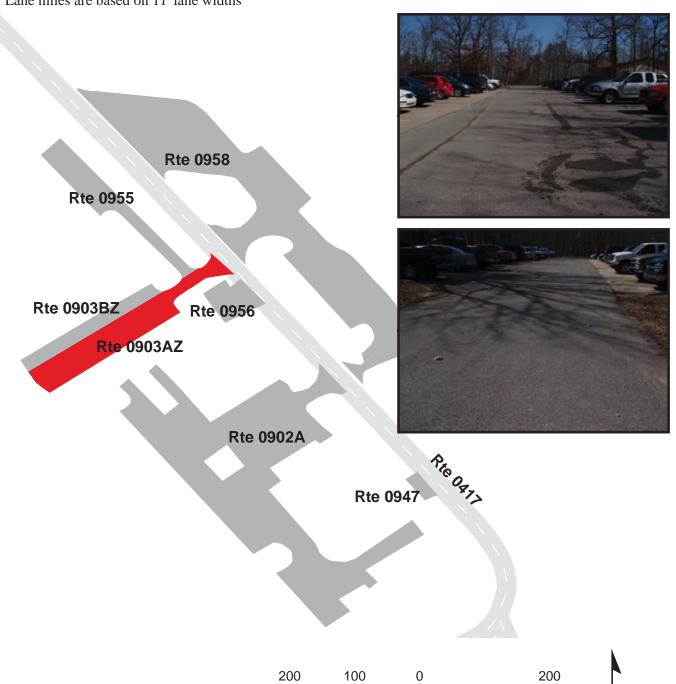
FROM ROUTE 0417 (PARK MAINTENANCE ROAD)

TO PARKING

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0903AZ	NONPUBLIC	3/4	1/2009	9,974	0.17	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths

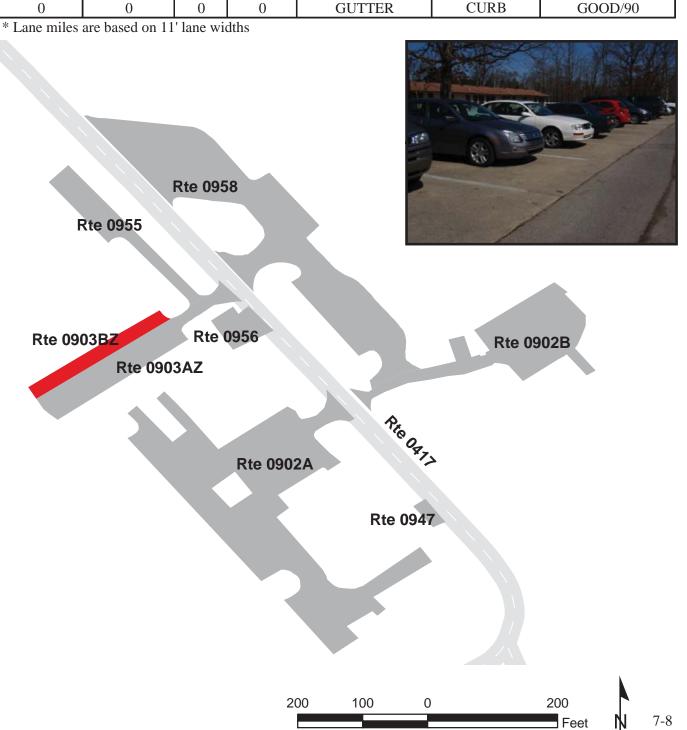


### MAMMOTH CAVE NATIONAL PARK Route 0903BZ

#### RANGER TRAINING CENTER PARKING AREA B ADJACENT TO ROUTE 0903AZ (RANGER TRAINING CENTER PARKING AREA A)

Subcomponent Record

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0903BZ	NONPUBLIC	3/4	1/2009	3,827	0.07	СО
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	GOOD/90

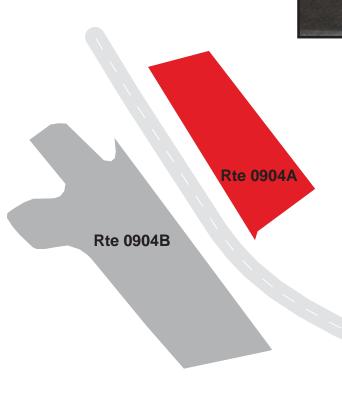


## HOUCHINS FERRY ROAD SOUTH PARKING ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON RIGHT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0904A	PUBLIC	3/4	1/2009	1,602	0.03	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths







20

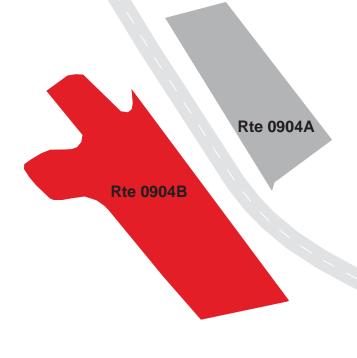
## HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON LEFT

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0904B	PUBLIC	3/4	1/2009	3,164	0.05	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	ASPHALT	
0	0	0	0	GUTTER	CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths







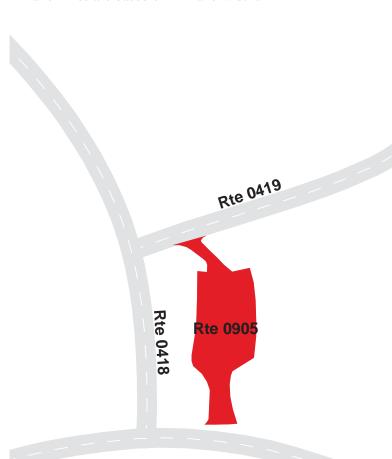
Rte 0103

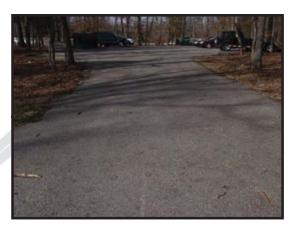
#### RECYCLING AREA PARKING

FROM ROUTE 0417 (PARK MAINTENANCE ROAD) TO ROUTE 0419 (SUPERINTENDENT OFFICE ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905	NONPUBLIC	3/3	3/2009	8,238	0.14	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
2	0	0	0	GUTTER	NO CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths







Nte 0472

## SUNSET LODGE PARKING A

ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906A	PUBLIC	3/4	1/2009	2,376	0.04	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	1	0	1	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths

Rte 0957

Rte 0906B



Rte 0906A

#### SUNSET LODGE PARKING B

ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906B	PUBLIC	3/4	1/2009	2,647	0.05	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	2	0	1	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths









Rte 0906A

#### PICNIC SHELTER PARKING A

FROM ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.09 ON RIGHT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907A	PUBLIC	3/4	1/2009	7,779	0.13	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	STONE CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931EZ

Rte 0931FZ

Rte 0202



90

45

90

#### PICNIC SHELTER PARKING B

ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON LEFT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907B	PUBLIC	3/4/2009		2,322	0.04	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931AZ

Rte 0202

R<sub>te</sub> 0203

Rte 0907C

Rte 0907B

#### PICNIC SHELTER PARKING C

ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON RIGHT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907C	PUBLIC	3/4/2009		1,706	0.03	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931AZ

Rte 0203

Rte 0907C

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Rte 0907B

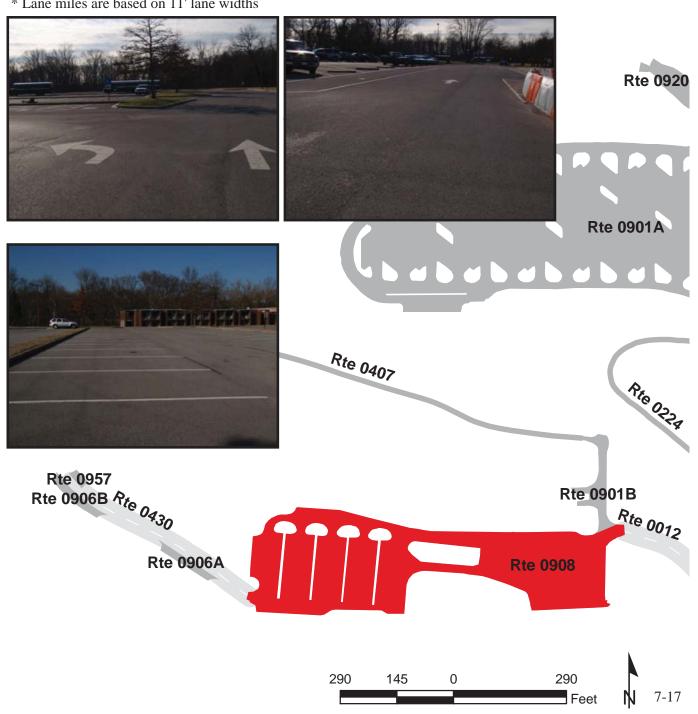
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#### MAMMOTH CAVE HOTEL PARKING

FROM END OF ROUTE 0012 (HOTEL ENTRANCE ROAD) TO ROUTE 0430 (SUNSET LODGE ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908	PUBLIC	3/4	1/2009	122,969	2.12	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	4	0	2	AND GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



#### SLOANS CROSSING PICNIC/POND PARKING FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 2.56 TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909	PUBLIC	3/3/2009		9,382	0.16	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB		
0	2	0	0	AND GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths







## PARK CITY ENTRANCE SIGN PARKING ADJACENT TO ROUTE 0020 (PARK CITY ROAD) AT MP 0.40 ON RIGHT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911	PUBLIC	3/3/2009		9,746	0.17	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	ASPHALT	
0	1	0	0	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths

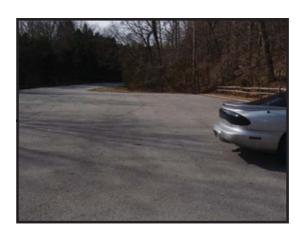


## TURNHOLE BEND NATURE TRAIL PARKING ADJACENT TO ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.30 ON LEFT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0912	PUBLIC	3/3	3/2009	6,046	0.10	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths





Rte 0912

#### SAND CAVE PARKING

ADJACENT TO ROUTE 0016 (CAVE CITY ROAD) AT MP 0.18 ON RIGHT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0913	PUBLIC	3/3/2009		6,310	0.11	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	ASPHALT &	
0	1	0	1	GUTTER	CONCRETE	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths





Rte 0016





#### GREEN RIVER FERRY PARKING

FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 1.28 ON RIGHT TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0915	PUBLIC	3/3	3/2009	20,639	0.36	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths





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# LINCOLN LOOP TRAILHEAD ROAD FROM OLLIE ROAD TO OLLIE ROAD

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0916	PUBLIC	3/4/2009		12,926	0.22	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
2	0	0	0	GUTTER	NO CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths









#### CEDAR SINK TRAILHEAD PARKING

ADJACENT TO ROUTE 0102 (CEDAR SINK ROAD) AT MP 0.57 ON LEFT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0919	PUBLIC	3/3/2009		5,795	0.10	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	1	0	0	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths









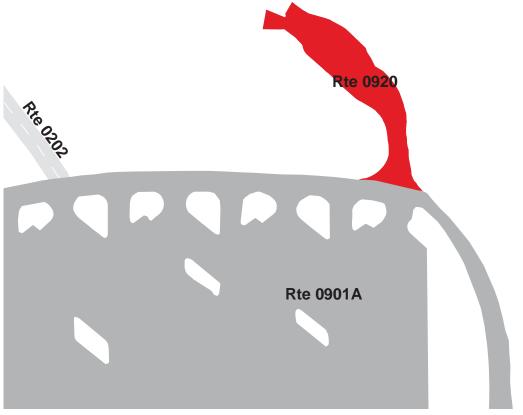
## WOODLAND COTTAGES PARKING FROM ROUTE 0901A (VISITOR CENTER PARKING AREA) TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0920	PUBLIC	3/4/2009		9,692	0.17	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	1	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths







SERVICES PARKING (POST OFFICE/DUMP STATION/GAS) FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)

TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0922	PUBLIC	3/3/2009		46,174	0.80	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
1	4	0	1	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths









Rte 0949 60° Rte 0205

#### **ELEVATOR PARKING**

FROM ROUTE 0420 (ELEVATOR SHAFT ROAD)

TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0923	PUBLIC	3/3/2009		4,631	0.08	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Feet

# MAMMOTH CAVE NATIONAL PARK Route 0931ZZ

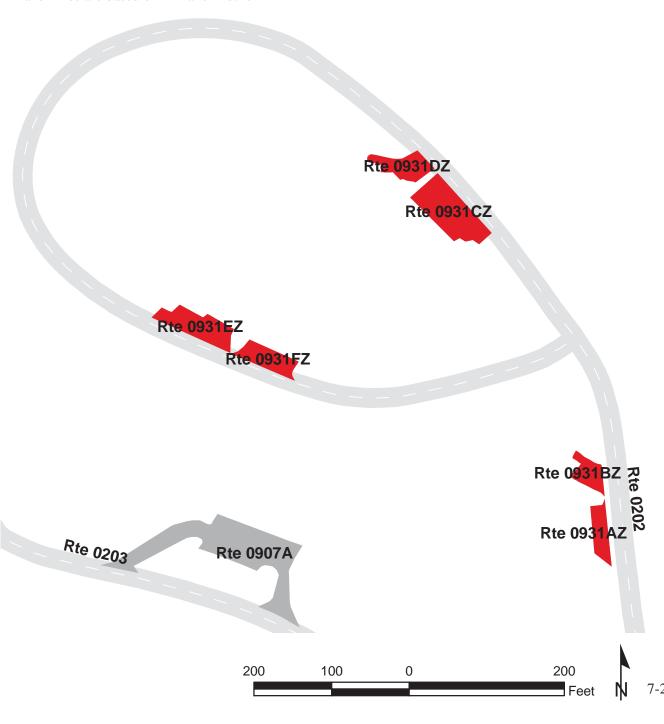
# PICNIC GROUNDS PARKING AREAS

ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)

Summary Record

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0931ZZ	PUBLIC	3/4/2009		10,849	0.19	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	SUMMARY/73

<sup>\*</sup> Lane miles are based on 11' lane widths



# MAMMOTH CAVE NATIONAL PARK Route 0931AZ

#### PICNIC GROUNDS PARKING AREA A

ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.11 ON LEFT

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931AZ	PUBLIC	3/4/2009		1,147	0.02	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931DZ

Rte 0931CZ

Are OTOL

Rte 0931EZ

Rte 0931FZ

Rte 0931BZ

Rte 0931AZ



# MAMMOTH CAVE NATIONAL PARK Route 0931BZ

#### PICNIC GROUNDS PARKING AREA B

ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.12 ON LEFT

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931BZ	PUBLIC	3/4	1/2009	1,039	0.02	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931DZ

Rte 0931CZ

Are OLOL

Rte 0931EZ

Rte 0931FZ

Rte **093**1BZ

Rte 0203

Rte 0907A

160 80 0 160 Feet



30

# MAMMOTH CAVE NATIONAL PARK Route 0931CZ

#### PICNIC GROUNDS PARKING AREA C

ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.20 ON LEFT

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931CZ	PUBLIC	3/4/2009		3,452	0.06	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931DZ

Rte 0931CZ

Rte 0931EZ

Rte 0931FZ

Rte 0931BZ

Rte 0203



# MAMMOTH CAVE NATIONAL PARK Route 0931DZ

#### PICNIC GROUNDS PARKING AREA D

ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.21 ON LEFT

Subcomponent Record

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0931DZ	PUBLIC	3/4	1/2009	1,478	0.03	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931DZ

Rte 0931CZ

Rte 0931EZ

Rte 0931FZ

Rte 0931BZ

Rte 0203

Rte 0907A



# MAMMOTH CAVE NATIONAL PARK Route 0931EZ

#### PICNIC GROUNDS PARKING AREA E

ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.38 ON LEFT

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931EZ	PUBLIC	3/4/2009		2,276	0.04	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931DZ

140

Rte 0931CZ

Rte 0931EZ Rte 0931FZ

Rte 0931BZ

Rte 0203 Rte 0907A



# MAMMOTH CAVE NATIONAL PARK Route 0931FZ

#### PICNIC GROUNDS PARKING AREA F

ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.39 ON LEFT

Subcomponent Record

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931FZ	PUBLIC	3/4/2009		1,458	0.03	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



Rte 0931DZ

140

Rte 0931CZ

Rte 0931EZ

Rte 0931BZ Rte 0931AZ RTE 0931AZ

Rte 0203



# S & RM EMPLOYEE PARKING #1

ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD) AT MP 0.41 ON RIGHT

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0947	NONPUBLIC	3/4/2009		748	0.01	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths





Rte 0902A

# HQ CAMPGROUND EMPLOYEE PARKING FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.08 ON LEFT TO PARKING

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0949	PUBLIC	3/3/2009		4,032	0.07	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	GOOD/90



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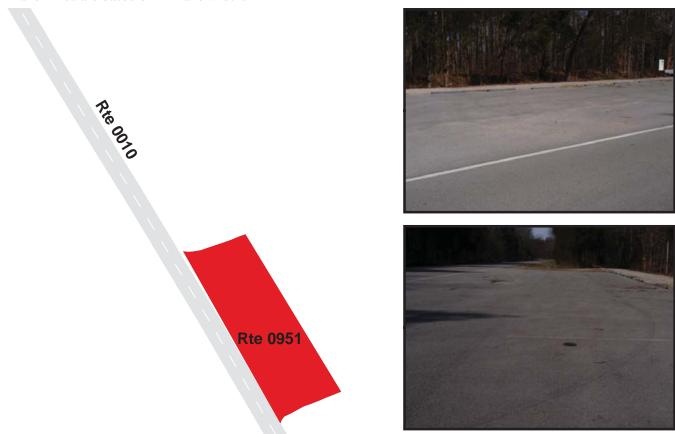
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# BIKE TRAIL PARKING AT LOCUST GROVE ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0951	PUBLIC	3/4/2009		4,552	0.08	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	NO CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths



## SEASONAL QUARTERS PARKING AREA B FROM ROUTE 0903ZZ (RANGER TRAINING CENTER PARKING AREAS) TO PARKING

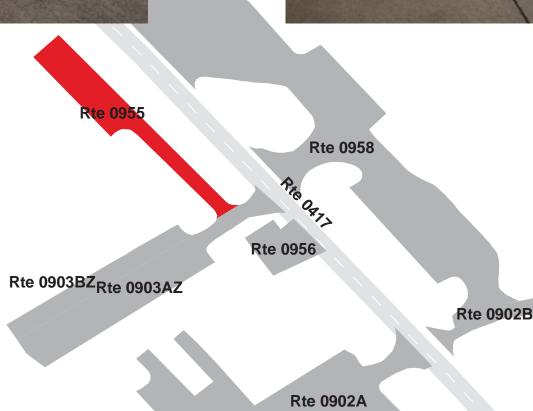
Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0955	NONPUBLIC	3/4/2009		6,497	0.11	СО
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths





120



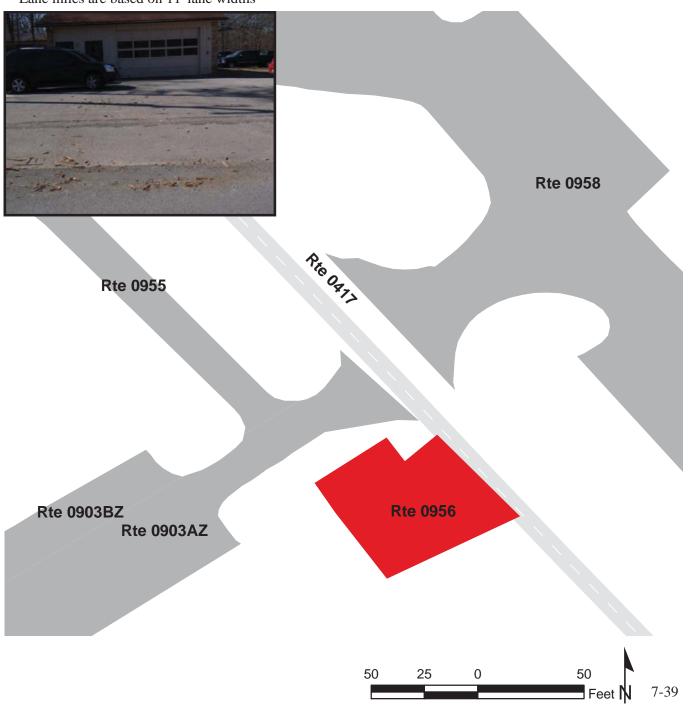
120

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# FITNESS CENTER PARKING AREA ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0956	NONPUBLIC	3/4/2009		2,832	0.05	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	FAIR/73

<sup>\*</sup> Lane miles are based on 11' lane widths



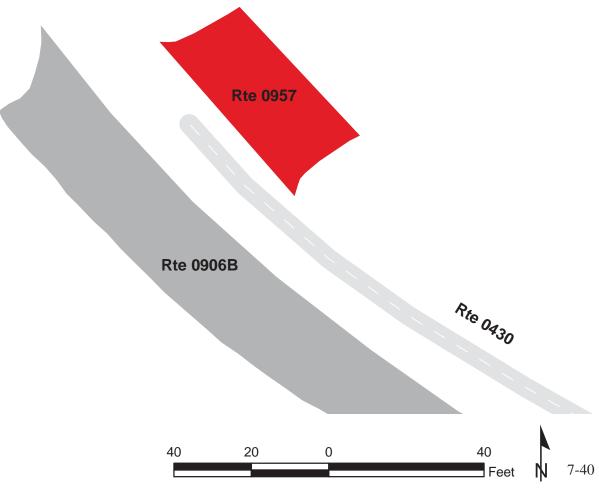
#### HERITAGE TRAIL PARKING

ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0957	PUBLIC	3/4/2009		821	0.01	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	0	GUTTER	STONE CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths





#### FUELING/BUS PARKING AREA

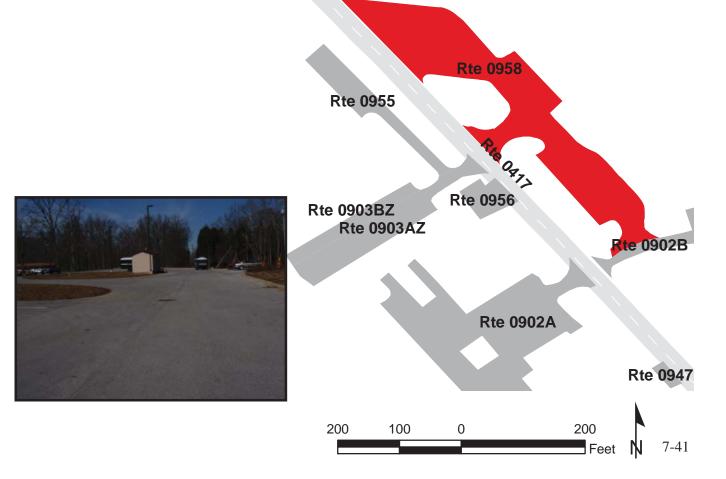
FROM ROUTE 0417 (PARK MAINTENANCE ROAD) TO ROUTE 0902B (CONCESSION SERVICE PARKING)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0958	NONPUBLIC	3/4	1/2009	36,809	0.63	AS
			Fire			
Culverts	<b>Drop Inlets</b>	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	3	0	0	AND GUTTER	CURB	GOOD/90

<sup>\*</sup> Lane miles are based on 11' lane widths







# Mammoth Cave National Park



Section 8
Parkwide / Route Maintenance
Features Summaries

# MACA: PARKWIDE MAINTENANCE FEATURES SUMMARY

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

FEATURE	LINEAR FEET	COUNT		
BARRIER	21,738			
BOLLARD	0			
BRIDGE		0		
CABLE	0			
CATTLE GUARD		0		
CULVERT		230		
CURB	2,856			
DROP INLET		73		
FIRE HYDRANT		26		
GATE		15		
GUARD/GUIDE RAIL	21,738			
GUARD/GUIDE WALL	0			
INTERSECTION		236		
LOW WATER CROSSING	0	0		
MILE MARKER		3		
OVERPASS		0		
OVERHEAD SIGN		0		
PARK BOUNDARY		10		
PAVED DITCH	19,129			
PULLOUT		5		
RAILROAD CROSSING		0		
RETAINING WALL	148	1		
SIGN		473		
STATE BOUNDARY		0		
TEMPORARY BARRIER	0			
TRAFFIC LIGHT		4		
TUNNEL	0	0		
TURNOUT	0			

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 MAMMOTH CAVE PARKWAY	ROUTE 0012 HOTEL ENTRANCE ROAD	ROUTE 0013 GREEN RIVER FERRY ROAD SOUTH	ROUTE 0014 GREEN RIVER FERRY ROAD NORTH	ROUTE 0015 BROWNSVILLE ROAD	ROUTE 0016 CAVE CITY ROAD	UNIT
BARRIER	3,485	0	0	0	3,480	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	39	0	8	38	29	16	EACH
CURB	903	1,135	158	0	0	0	LINEAR FEET
DROP INLET	8	2	1	0	0	1	EACH
FIRE HYDRANT	1	0	1	0	0	0	EACH
GATE	0	0	1	0	0	0	EACH
GUARD/GUIDE RAIL	3,485	0	0	0	3,480	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	19	5	7	7	10	12	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	2	0	0	1	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	1	0	0	1	1	1	EACH
PAVED DITCH	4,213	0	1,125	0	4,129	174	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	1	EACH
RETAINING WALL	0	0	0	0	0	148	LINEAR FEET
SIGN	96	4	30	34	27	29	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	1	0	0	0	0	3	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0020 PARK CITY ROAD	ROUTE 0101 FLINT RIDGE ROAD	ROUTE 0102 CEDAR SINK ROAD	ROUTE 0103 HOUCHINS FERRY ROAD SOUTH	ROUTE 0103N HOUCHINS FERRY ROAD NORTH	ROUTE 0106 PARK RIDGE ROAD	UNIT
BARRIER	12,672	0	1,431	243	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	4	10	4	8	3	14	EACH
CURB	0	0	0	470	0	0	LINEAR FEET
DROP INLET	1	0	0	1	0	0	EACH
FIRE HYDRANT	0	0	0	0	0	1	EACH
GATE	0	2	0	1	0	0	EACH
GUARD/GUIDE RAIL	12,672	0	1,431	243	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	12	10	5	6	3	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	1	1	1	1	0	1	EACH
PAVED DITCH	871	470	4,974	216	0	0	LINEAR FEET
PULLOUT	0	1	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	71	11	10	12	5	28	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0110 MAPLE SPRINGS LOOP	ROUTE 0115 OLLIE RIDGE ROAD (GREAT ONYX JOB CORP CENTER)	ROUTE 0200 FROZEN NIAGARA ENTRANCE ROAD	ROUTE 0201 CARMICHAEL ENTRANCE ROAD	ROUTE 0202 VISITOR CENTER PICNIC GROUNDS ROAD	ROUTE 0203 VISITOR CENTER PICNIC SHELTER ROAD	UNIT
BARRIER	428	0	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	9	2	10	4	1	1	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	0	1	1	1	0	EACH
GATE	0	1	0	0	1	0	EACH
GUARD/GUIDE RAIL	428	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	12	4	7	7	11	9	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	1	0	0	0	0	EACH
PAVED DITCH	0	0	1,299	1,658	0	0	LINEAR FEET
PULLOUT	2	0	1	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	21	5	4	5	7	1	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0205 HQ CAMPGROUND ACCESS ROAD	ROUTE 0223 MAPLE SPRINGS LOOP CAMPGROUND	ROUTE 0417 PARK MAINTENANCE ROAD	ROUTE 0418 RESIDENCE LOOP ROAD	ROUTE 0419 SUPERINTENDENT OFFICE ROAD	ROUTE 0420 ELEVATOR SHAFT ROAD	UNIT
BARRIER	0	0	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	2	1	2	4	1	1	EACH
CURB	48	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	1	0	0	0	EACH
FIRE HYDRANT	2	0	4	3	1	1	EACH
GATE	0	0	1	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	12	4	17	6	4	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	1	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	18	1	16	10	6	1	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0430 SUNSET LODGE ROAD	ROUTE 0500 NEW ENTRANCE LOOP	ROUTE 0501 VISITOR CENTER CAMPGROUND LOOP D	ROUTE 0502 VISITOR CENTER CAMPGROUND LOOP A	ROUTE 0503 VISITOR CENTER CAMPGROUND LOOP C	ROUTE 0504 VISITOR CENTER CAMPGROUND LOOP B	UNIT
BARRIER	0	0	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	1	1	3	0	1	2	EACH LINEAR FEET
CURB	132	0	11	0	0	0	LINEAR FEET
DROP INLET	0	0	1	1	0	0	EACH
FIRE HYDRANT	1	0	0	0	0	0	EACH
GATE	0	0	1	2	2	2	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	5	8	6	6	6	4	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT CROSSING	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH LINEAR FEET
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN STATE BOUNDARY	0	0	6	5	3	7	EACH
	0	0	0	0	0	0	EACH LINEAR FEET
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH LINEAR FEET
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

# MACA: STRUCTURE LIST No data for this section.

# Mammoth Cave National Park



Section 9
Park Route Maintenance Features
Road Logs

#### **ROUTE 0010: MAMMOTH CAVE PARKWAY**

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM END OF ROUTE 5010 (STATE HIGHWAY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED)) AT PARK BOUNDARY
0.000	0.000	PARK BOUNDARY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 5010 (STATE HIGHWAY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED))
0.028	0.139	GUARD/GUIDE RAIL	RIGHT	
0.029	0.029	SIGN	RIGHT	GUIDE, EDMONSON COUNTY
0.030	0.030	MILE MARKER	LEFT	
0.031	0.031	MILE MARKER	RIGHT	
0.031	0.031	SIGN	RIGHT	GUIDE, BARREN COUNTY
0.054	0.054	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER BROWNSVILLE PARK CITY
0.067	0.067	INTERSECTION	LEFT	UNPAVED ROUTE
0.075	0.153	GUARD/GUIDE RAIL	LEFT	
0.078	0.078	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES PROHIBITED
0.165	0.165	INTERSECTION	LEFT	ROUTE 0020 (PARK CITY ROAD)
0.228	0.228	CULVERT	N/A	
0.258	0.258	SIGN	RIGHT	GUIDE, INTERSTATE 65
0.258	0.258	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.308	0.308	CULVERT	N/A	
0.316	0.316	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
0.317	0.317	SIGN	RIGHT	GUIDE, PARK CITY CAVE CITY
0.423	0.423	CULVERT	N/A	
0.478	0.478	SIGN	RIGHT	WARNING, 35 M.P.H.
0.478	0.478	SIGN	RIGHT	WARNING, 500 FT
0.478	0.478	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.531	0.531	INTERSECTION	RIGHT	ROUTE 0942 (LOCUST GROVE CEMETERY PARKING)
0.550	0.550	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.550	0.550	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.569	0.569	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.569	0.569	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.575	0.575	SIGN	LEFT	REGULATORY, NO PARKING
0.575	0.575	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.575	0.575	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.575	0.575	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES

# ROUTE 0010: MAMMOTH CAVE PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.580	0.580	INTERSECTION	RIGHT	ROUTE 0951 (BIKE TRAIL PARKING AT LOCUST GROVE)
0.594	0.594	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.594	0.594	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.670	0.670	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.670	0.670	SIGN	RIGHT	WARNING, 500 FT
0.670	0.670	SIGN	RIGHT	WARNING, 35 M.P.H.
0.680	0.680	CULVERT	N/A	
0.748	0.748	INTERSECTION	RIGHT	ROUTE 0428 (DOYLE VALLEY SERVICE ROAD)
0.833	0.833	CULVERT	N/A	
0.870	0.870	CULVERT	N/A	
1.014	1.014	CULVERT	N/A	
1.110	1.110	CULVERT	N/A	
1.231	1.231	CULVERT	N/A	
1.358	1.358	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
1.367	1.367	CULVERT	N/A	
1.463	1.463	CULVERT	N/A	
1.540	1.540	CULVERT	N/A	
1.654	1.654	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
1.751	1.751	SIGN	RIGHT	WARNING, 35 M.P.H.
1.751	1.751	SIGN	RIGHT	WARNING, 500 FT
1.751	1.751	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.752	1.752	CULVERT	N/A	
1.827	1.827	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
1.827	1.827	SIGN	RIGHT	GUIDE, BIKE ROUTE
1.843	1.843	SIGN	RIGHT	REGULATORY, NO MOTOR VEHICLES
1.844	1.844	SIGN	RIGHT	REGULATORY, NO PARKING
1.845	1.845	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.845	1.845	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.852	1.852	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.852	1.852	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.853	1.853	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES
1.853	1.853	SIGN	LEFT	REGULATORY, NO PARKING
1.871	1.871	SIGN	RIGHT	GUIDE, BIKE ROUTE
1.871	1.871	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT

# ROUTE 0010: MAMMOTH CAVE PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.947	1.947	SIGN	RIGHT	WARNING, 500 FT
1.947	1.947	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.947	1.947	SIGN	RIGHT	WARNING, 35 M.P.H.
2.118	2.118	CULVERT	N/A	
2.310	2.310	CULVERT	N/A	
2.518	2.518	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
2.528	2.528	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER LODGING/FOOD/CAMPING BROWNSVILLE 70 WEST
2.562	2.562	INTERSECTION	LEFT	ROUTE 0909 (SLOANS CROSSING PICNIC/POND PARKING)
2.565	2.641	GUARD/GUIDE RAIL	RIGHT	
2.585	2.585	CULVERT	N/A	
2.586	2.586	SIGN	LEFT	GUIDE, SLOANS POND WALK
2.605	2.605	INTERSECTION	LEFT	ROUTE 0909 (SLOANS CROSSING PICNIC/POND PARKING)
2.633	2.633	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.633	2.633	SIGN	RIGHT	WARNING, SHARE THE ROAD
2.664	2.664	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER LODGING/FOOD/CAMPING BROWNSVILLE 70 WEST
2.695	2.778	PAVED DITCH	RIGHT	
2.736	2.736	INTERSECTION	LEFT	ROUTE 0015 (BROWNSVILLE ROAD)
2.753	2.753	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
2.776	2.776	CULVERT	N/A	
2.799	2.799	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 45
2.825	2.825	SIGN	RIGHT	GUIDE, INTERSTATE 65 70 EAST CAVE CITY-PARK CITY 70 WEST BROWNSVILLE
2.826	2.833	PAVED DITCH	RIGHT	
2.828	2.898	PAVED DITCH	LEFT	
2.837	2.879	GUARD/GUIDE RAIL	RIGHT	
2.887	2.887	CULVERT	N/A	
2.911	2.923	PAVED DITCH	RIGHT	
2.921	2.947	PAVED DITCH	LEFT	
2.921	3.054	GUARD/GUIDE RAIL	RIGHT	
2.998	2.998	CULVERT	N/A	
3.047	3.047	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
3.096	3.125	PAVED DITCH	LEFT	
3.126	3.126	CULVERT	N/A	

# ROUTE 0010: MAMMOTH CAVE PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.138	3.169	PAVED DITCH	LEFT	
3.168	3.168	CULVERT	N/A	
3.188	3.188	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
3.189	3.189	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 45
3.231	3.234	PAVED DITCH	RIGHT	
3.233	3.285	PAVED DITCH	LEFT	
3.245	3.245	CULVERT	N/A	
3.278	3.286	PAVED DITCH	RIGHT	
3.296	3.296	CULVERT	N/A	
3.340	3.340	CULVERT	N/A	
3.450	3.574	GUARD/GUIDE RAIL	RIGHT	
3.451	3.451	SIGN	RIGHT	WARNING, CONGESTED AREA AHEAD
3.598	3.598	SIGN	RIGHT	GUIDE, OVERLOOK AHEAD
3.617	3.713	GUARD/GUIDE RAIL	LEFT	
3.651	3.651	INTERSECTION	RIGHT	ROUTE 0900 (DOYLE VALLEY OVERLOOK)
3.714	3.714	SIGN	RIGHT	GUIDE, OVERLOOK AHEAD
3.714	3.780	PAVED DITCH	RIGHT	
3.795	3.795	CULVERT	N/A	
3.796	3.811	PAVED DITCH	RIGHT	
3.853	3.853	CULVERT	N/A	
3.938	3.938	CULVERT	N/A	
3.943	3.960	PAVED DITCH	RIGHT	
4.008	4.008	SIGN	RIGHT	WARNING, CONGESTED AREA AHEAD
4.021	4.061	PAVED DITCH	LEFT	
4.028	4.028	CULVERT	N/A	
4.155	4.155	CULVERT	N/A	
4.174	4.174	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.190	4.190	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.229	4.266	PAVED DITCH	RIGHT	
4.236	4.259	PAVED DITCH	LEFT	
4.253	4.253	CULVERT	N/A	
4.272	4.272	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER 1 MI. FOOD/LODGING 1 MI.
4.311	4.311	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.311	4.311	TRAFFIC LIGHT	RIGHT	

# ROUTE 0010: MAMMOTH CAVE PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.348	4.348	CULVERT	N/A	
4.370	4.370	INTERSECTION	LEFT	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
4.370	4.370	INTERSECTION	RIGHT	ROUTE 0016 (CAVE CITY ROAD)
4.388	4.388	CULVERT	N/A	
4.398	4.398	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.401	4.401	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
4.401	4.401	SIGN	RIGHT	GUIDE, INTERSTATE 65
4.401	4.401	SIGN	RIGHT	GUIDE, TO
4.451	4.451	SIGN	RIGHT	GUIDE, CAVE CITY PARK CITY BROWNSVILLE
4.470	4.470	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.527	4.635	PAVED DITCH	RIGHT	
4.635	4.635	CULVERT	N/A	
4.682	4.745	PAVED DITCH	RIGHT	
4.707	4.707	CULVERT	N/A	
4.913	4.994	PAVED DITCH	LEFT	
4.939	4.939	SIGN	RIGHT	GUIDE, NPS WAREHOUSE RANGER STATION TRAINING CENTER PARK ADMINISTRATION
4.988	4.988	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.027	5.027	CULVERT	N/A	
5.029	5.029	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER LODGING/FOOD/CAMPING GREEN RIVER FERRY MAPLE SPRINGS
5.061	5.061	CULVERT	N/A	
5.075	5.075	INTERSECTION	RIGHT	ROUTE 0417 (PARK MAINTENANCE ROAD)
5.081	5.081	INTERSECTION	LEFT	ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH)
5.088	5.088	CULVERT	N/A	
5.127	5.127	SIGN	RIGHT	GUIDE, INTERSTATE 65 70 CAVE CITY-PARK CITY BROWNSVILLE GREEN RIVER FERRY
5.175	5.175	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.296	5.296	CULVERT	N/A	
5.313	5.313	SIGN	RIGHT	WARNING, SLOW CONGESTED AREA
5.363	5.363	CULVERT	N/A	
5.374	5.374	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
5.375	5.375	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
5.404	5.404	DROP INLET	LEFT	
5.405	5.405	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT

# ROUTE 0010: MAMMOTH CAVE PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
5.405	5.405	SIGN	LEFT	WARNING, DIVIDED HIGHWAY ENDS
5.405	5.456	CURB-AND-GUTTER	LEFT	
5.412	5.412	SIGN	RIGHT	WARNING, CAMPGROUND CAVE TOURS VISITOR CENTER
5.418	5.418	DROP INLET	LEFT	
5.440	5.440	SIGN	RIGHT	GUIDE, FASTEN SAFETY BELTS
5.458	5.458	SIGN	LEFT	REGULATORY, STOP
5.461	5.461	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
5.471	5.496	CURB-AND-GUTTER	LEFT	
5.476	5.476	SIGN	RIGHT	REGULATORY, SLOW PROCEED WITH CAUTION
5.485	5.485	SIGN	LEFT	GUIDE, SERVICE CENTER
5.485	5.485	SIGN	RIGHT	GUIDE, SERVICE CENTER
5.486	5.486	DROP INLET	LEFT	
5.500	5.500	INTERSECTION	LEFT	ROUTE 0922 (SERVICES PARKING (POST OFFICE/DUMP STATION/GAS))
5.511	5.511	SIGN	RIGHT	REGULATORY, STOP
5.513	5.520	CURB-AND-GUTTER	LEFT	
5.543	5.543	SIGN	RIGHT	GUIDE, FOOD/LODGING GIFTS/KENNELS NEXT LEFT
5.546	5.578	CURB-AND-GUTTER	LEFT	
5.576	5.576	DROP INLET	LEFT	
5.580	5.583	CURB-AND-GUTTER	LEFT	
5.586	5.586	INTERSECTION	LEFT	ROUTE 0012 (HOTEL ENTRANCE ROAD)
5.590	5.590	SIGN	RIGHT	GUIDE, TOUR PARKING PICNIC AREA FLINT RIDGE RD
5.596	5.602	CURB-AND-GUTTER	LEFT	
5.602	5.602	DROP INLET	LEFT	
5.603	5.603	FIRE HYDRANT	LEFT	
5.619	5.646	PAVED DITCH	RIGHT	
5.630	5.630	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
5.640	5.644	CURB-AND-GUTTER	LEFT	
5.642	5.642	DROP INLET	LEFT	
5.644	5.644	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
5.650	5.650	INTERSECTION	RIGHT	ROUTE 0101 (FLINT RIDGE ROAD)
5.662	5.705	CURB-AND-GUTTER	LEFT	
5.663	5.663	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
5.672	5.672	DROP INLET	LEFT	

# ROUTE 0010: MAMMOTH CAVE PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
5.695	5.695	SIGN	RIGHT	GUIDE, FOOD/LODGING GIFTS/KENNELS FLINT RIDGE RD.
5.698	5.698	DROP INLET	LEFT	
5.712	5.712	SIGN	RIGHT	GUIDE, PARKING
5.712	5.712	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
5.736	5.736	SIGN	RIGHT	WARNING, MERGING TRAFFIC
5.740	5.740	INTERSECTION	N/A	ROUTE 0901A (VISITOR CENTER PARKING AREA)
5.740	5.740	ROUTE END	N/A	TO ROUTE 0901A (VISITOR CENTER PARKING AREA)

# **ROUTE 0012: HOTEL ENTRANCE ROAD**

FROM	TO		CIDE	COMMENT
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.59
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.005	0.120	CURB-AND-GUTTER	LEFT	
0.005	0.005	SIGN	RIGHT	REGULATORY, STOP
0.006	0.070	CURB-AND-GUTTER	RIGHT	
0.073	0.073	INTERSECTION	RIGHT	ROUTE 0224 (VISITOR CENTER BUS LOOP)
0.083	0.083	SIGN	RIGHT	REGULATORY, OVERFLOW PARKING
0.083	0.119	CURB-AND-GUTTER	RIGHT	
0.114	0.114	DROP INLET	RIGHT	
0.114	0.114	DROP INLET	LEFT	
0.120	0.120	SIGN	RIGHT	REGULATORY, AUTHORIZED VEHICLES ONLY
0.120	0.120	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.120	0.120	INTERSECTION	N/A	ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)
0.120	0.120	INTERSECTION	RIGHT	ROUTE 0901B (HOTEL SERVICES PARKING)
0.120	0.120	ROUTE END	N/A	TO ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING) AND ROUTE 0901B (HOTEL SERVICES PARKING) ON RIGHT

## ROUTE 0013: GREEN RIVER FERRY ROAD SOUTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.08
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.009	0.013	PAVED DITCH	RIGHT	
0.011	0.011	FIRE HYDRANT	LEFT	
0.019	0.019	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.031	0.031	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 8 TONS
0.031	0.031	SIGN	RIGHT	WARNING, FERRY CLOSED AT NIGHT
0.040	0.040	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.040	0.040	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.041	0.041	SIGN	RIGHT	REGULATORY, NO MOTOR VEHICLES
0.042	0.042	SIGN	RIGHT	REGULATORY, NO PARKING
0.044	0.044	SIGN	LEFT	REGULATORY, NO PARKING
0.045	0.045	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES
0.047	0.047	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.047	0.047	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.059	0.059	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.078	0.078	INTERSECTION	RIGHT	ROUTE 0431 (POINT X SEWAGE LIFT STATION ROAD)
0.090	0.090	SIGN	RIGHT	GUIDE, TOURS/VISITORS CENTER LODGING/FOOD/CAMPING INTERSTATE 65 70 CAVE CITY-PARK CITY BROWNSVILLE
0.092	0.092	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.145	0.145	SIGN	RIGHT	WARNING, 500 FT
0.145	0.145	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.311	0.311	CULVERT	N/A	
0.360	0.360	CULVERT	N/A	
0.386	0.386	CULVERT	N/A	
0.457	0.457	CULVERT	N/A	
0.470	0.679	PAVED DITCH	RIGHT	
0.679	0.679	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.680	0.680	DROP INLET	RIGHT	
0.755	0.755	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.796	0.796	CULVERT	N/A	

# ROUTE 0013: GREEN RIVER FERRY ROAD SOUTH

FROM	TO
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MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.806	0.806	INTERSECTION	LEFT	ROUTE 0113 (JOPPA RIDGE ROAD)
0.884	0.884	SIGN	RIGHT	GUIDE, MAPLE SPRING TRAILHEAD 3MI. MAPLE SPRING GROUP CAMPGROUND 3MI.
0.906	0.906	CULVERT	N/A	
1.065	1.065	CULVERT	N/A	
1.103	1.103	CULVERT	N/A	
1.153	1.153	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
1.157	1.157	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
1.187	1.187	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.215	1.215	SIGN	RIGHT	WARNING, ROAD ENDS IN WATER
1.258	1.258	SIGN	LEFT	REGULATORY, BOAT TRAILERS PARK PARALLEL
1.272	1.272	SIGN	LEFT	REGULATORY, BOAT TRAILERS PARK PARALLEL
1.284	1.284	INTERSECTION	RIGHT	ROUTE 0915 (GREEN RIVER FERRY PARKING)
1.292	1.309	CURB-AND-GUTTER	RIGHT	
1.296	1.296	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
1.297	1.310	CURB-AND-GUTTER	LEFT	
1.306	1.306	SIGN	RIGHT	GUIDE, STOP GREEN RIVER FERRY OPEN: 6:00 AM - 9:55 PM WAIT HERE FOR FERRY
1.306	1.306	SIGN	RIGHT	REGULATORY, WARNING
1.309	1.309	SIGN	N/A	REGULATORY, NOTICE GREEN RIVER FERRY CLOSED
1.309	1.309	GATE	N/A	
1.310	1.310	INTERSECTION	N/A	PAVED ROUTE (GREEN RIVER FERRY CROSSING RAMP #1)
1.310	1.310	ROUTE END	N/A	TO GREEN RIVER FERRY CROSSING RAMP # 1

#### ROUTE 0014: GREEN RIVER FERRY ROAD NORTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM END OF ROUTE 5014 (GREEN RIVER FERRY ROAD NORTH (NON NPS)) AT NORTH PARK BOUNDARY
0.000	0.000	INTERSECTION	N/A	ROUTE 5014 (GREEN RIVER FERRY ROAD NORTH (NON NPS))
0.000	0.000	PARK BOUNDARY	N/A	
0.000	0.000	SIGN	RIGHT	GUIDE, ENTERING LINCOLN FIRE DISTRICT
0.000	0.000	SIGN	RIGHT	GUIDE, KENTUCKY SCENIC BYWAY
0.003	0.003	MILE MARKER	RIGHT	
0.006	0.006	SIGN	RIGHT	GUIDE, MAMMOTH CAVE NATIONAL PARK A WORLD HERITAGE SITE AND INTERNATIONAL BIOSPHERE RESERVE
0.020	0.020	SIGN	RIGHT	WARNING, FERRY CLOSED
0.020	0.020	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 8 TONS
0.020	0.020	SIGN	RIGHT	GUIDE, VEHICLE FERRY
0.096	0.096	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER 6 MI. FOOD/LODGING 6 MI. GREEN RIVER FERRY 4 MI. MAPLE SPRINGS COMPLEX 2 MI.
0.155	0.155	CULVERT	N/A	
0.193	0.193	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.202	0.202	INTERSECTION	RIGHT	UNPAVED ROUTE (GATED)
0.378	0.378	INTERSECTION	LEFT	UNPAVED ROUTE
0.522	0.522	CULVERT	N/A	
0.704	0.704	CULVERT	N/A	
0.897	0.897	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.919	0.919	CULVERT	N/A	
0.951	0.951	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.083	1.083	CULVERT	N/A	
1.094	1.094	INTERSECTION	RIGHT	ROUTE 0110 (MAPLE SPRINGS LOOP)
1.099	1.099	SIGN	LEFT	GUIDE, MAPLE SPRINGS GOOD SPRINGS CHURCH TRAILHEAD PARKING GROUP CAMPGROUND RESEARCH CENTER
1.101	1.101	SIGN	RIGHT	GUIDE, MAPLE SPRINGS GOOD SPRINGS CHURCH TRAILHEAD PARKING GROUP CAMPGROUND RESEARCH CENTER
1.133	1.133	CULVERT	N/A	
1.149	1.149	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.360	1.360	CULVERT	N/A	
1.536	1.536	CULVERT	N/A	
1.722	1.722	CULVERT	N/A	
1.871	1.871	CULVERT	N/A	
1.900	1.900	CULVERT	N/A	

#### ROUTE 0014: GREEN RIVER FERRY ROAD NORTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.933	1.933	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.938	1.938	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.938	1.938	SIGN	RIGHT	WARNING, ROAD ENDS IN WATER 2 MILES AHEAD
1.942	1.942	CULVERT	N/A	
2.032	2.032	INTERSECTION	RIGHT	ROUTE 0110 (MAPLE SPRINGS LOOP)
2.033	2.033	SIGN	LEFT	GUIDE, MAPLE SPRINGS RESEARCH CENTER GROUP CAMPGROUND TRAILHEAD PARKING
2.034	2.034	SIGN	RIGHT	GUIDE, MAPLE SPRINGS RESEARCH CENTER GROUP CAMPGROUND TRAILHEAD PARKING
2.071	2.071	CULVERT	N/A	
2.124	2.124	CULVERT	N/A	
2.132	2.132	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.148	2.148	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
2.518	2.518	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
2.521	2.521	CULVERT	N/A	
2.524	2.524	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
2.626	2.626	CULVERT	N/A	
2.929	2.929	CULVERT	N/A	
3.061	3.061	CULVERT	N/A	
3.088	3.088	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.088	3.088	SIGN	RIGHT	WARNING, ROAD ENDS IN WATER 1 MILE AHEAD
3.147	3.147	CULVERT	N/A	
3.163	3.163	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
3.181	3.181	CULVERT	N/A	
3.313	3.313	CULVERT	N/A	
3.365	3.365	CULVERT	N/A	
3.443	3.443	CULVERT	N/A	
3.504	3.504	CULVERT	N/A	
3.509	3.509	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
3.556	3.556	CULVERT	N/A	
3.556	3.556	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
3.627	3.627	CULVERT	N/A	
3.690	3.690	CULVERT	N/A	
3.765	3.765	CULVERT	N/A	
3.802	3.802	CULVERT	N/A	

#### ROUTE 0014: GREEN RIVER FERRY ROAD NORTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.844	3.844	CULVERT	N/A	
3.902	3.902	CULVERT	N/A	
3.934	3.934	CULVERT	N/A	
3.974	3.974	CULVERT	N/A	
4.002	4.002	CULVERT	N/A	
4.009	4.009	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.010	4.010	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.032	4.032	CULVERT	N/A	
4.037	4.037	SIGN	RIGHT	WARNING, ROAD ENDS IN WATER
4.068	4.068	CULVERT	N/A	
4.090	4.090	CULVERT	N/A	
4.130	4.130	CULVERT	N/A	
4.141	4.141	INTERSECTION	RIGHT	ROUTE 0950 (NORTH GREEN RIVER FERRY PARKING)
4.159	4.159	SIGN	RIGHT	GUIDE, VEHICLE FERRY
4.180	4.180	SIGN	RIGHT	GUIDE, STOP GREEN RIVER FERRY OPEN: 6:00 AM - 9:55 PM WAIT HERE FOR FERRY
4.180	4.180	SIGN	RIGHT	REGULATORY, WARNING
4.180	4.180	INTERSECTION	N/A	PAVED ROUTE (GREEN RIVER FERRY CROSSING RAMP #2)
4.180	4.180	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
4.180	4.180	ROUTE END	N/A	TO GREEN RIVER FERRY CROSSING RAMP #2

ROUTE 0015: BROWNSVILLE ROAD

	FROM	TO
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MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM WEST PARK BOUNDARY AT INTERSECTION OF COUNTY HIGHWAY 2325 AND ROUTE 5015 (STATE HIGHWAY 70/BROWNSVILLE ROAD EXTENSION)
0.000	0.000	INTERSECTION	N/A	ROUTE 5015 (STATE HIGHWAY 70/BROWNSVILLE ROAD EXTENSION)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (ELM GROVE CHURCH ROAD / STATE ROUTE 2325 / NON NPS)
0.000	0.000	PARK BOUNDARY	N/A	
0.004	0.004	SIGN	RIGHT	REGULATORY, END STATE MAINTENANCE
0.008	0.008	SIGN	RIGHT	REGULATORY, 70
0.008	0.008	SIGN	RIGHT	REGULATORY, EAST
0.008	0.008	SIGN	RIGHT	REGULATORY, 2325
0.008	0.008	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.014	0.014	CULVERT	N/A	
0.028	0.028	SIGN	RIGHT	GUIDE, MAMMOTH CAVE NATIONAL PARK A WORLD HERITAGE SITE AND INTERNATIONAL BIOSPHERE RESERVE
0.029	0.029	SIGN	RIGHT	GUIDE, LEAVING MAMMOTH CAVE NATIONAL PARK
0.077	0.077	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
0.115	0.115	SIGN	RIGHT	REGULATORY, 2325
0.115	0.115	SIGN	RIGHT	REGULATORY, JCT
0.117	0.117	CULVERT	N/A	
0.147	0.147	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.147	0.147	SIGN	RIGHT	WARNING, DEER XING
0.224	0.224	CULVERT	N/A	
0.282	0.282	CULVERT	N/A	
0.440	0.440	CULVERT	N/A	
0.480	0.519	PAVED DITCH	LEFT	
0.528	0.528	CULVERT	N/A	
0.545	0.581	PAVED DITCH	RIGHT	
0.589	0.589	CULVERT	N/A	
0.712	0.712	CULVERT	N/A	
0.722	0.772	PAVED DITCH	RIGHT	
0.778	0.826	PAVED DITCH	RIGHT	
0.870	1.079	GUARD/GUIDE RAIL	LEFT	
0.888	1.136	GUARD/GUIDE RAIL	RIGHT	
1.093	1.093	CULVERT	N/A	

ROUTE 0015: BROWNSVILLE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.097	1.156	PAVED DITCH	LEFT	
1.187	1.226	PAVED DITCH	LEFT	
1.249	1.336	GUARD/GUIDE RAIL	RIGHT	
1.252	1.252	CULVERT	N/A	
1.300	1.300	INTERSECTION	LEFT	ROUTE 0912 (TURNHOLE BEND NATURE TRAIL PARKING)
1.333	1.333	CULVERT	N/A	
1.356	1.378	PAVED DITCH	LEFT	
1.369	1.369	SIGN	RIGHT	WARNING, 40 M.P.H.
1.369	1.369	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.496	1.496	SIGN	RIGHT	GUIDE, TURNHOLE BEND TRAIL AHEAD
1.547	1.547	CULVERT	N/A	
1.668	1.668	SIGN	RIGHT	GUIDE, CEDAR SINK ROAD PIG
1.696	1.696	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
1.725	1.754	GUARD/GUIDE RAIL	LEFT	
1.736	1.736	INTERSECTION	RIGHT	ROUTE 0102 (CEDAR SINK ROAD)
1.804	1.804	SIGN	RIGHT	GUIDE, CEDAR SINK ROAD PIG
1.809	1.809	INTERSECTION	RIGHT	ROUTE 0400 (CEDAR SINK SERVICE ROAD)
1.859	1.859	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
1.959	2.035	PAVED DITCH	LEFT	
2.174	2.204	PAVED DITCH	LEFT	
2.177	2.177	CULVERT	N/A	
2.355	2.355	CULVERT	N/A	
2.433	2.433	CULVERT	N/A	
2.470	2.470	CULVERT	N/A	
2.565	2.565	CULVERT	N/A	
2.661	2.661	INTERSECTION	LEFT	ROUTE 0945 (JOPPA CHURCH CEMETERY PARKING)
2.727	2.757	PAVED DITCH	RIGHT	
2.803	2.803	CULVERT	N/A	
2.803	2.813	PAVED DITCH	LEFT	
2.839	2.839	INTERSECTION	LEFT	ROUTE 0113 (JOPPA RIDGE ROAD)
2.878	2.878	CULVERT	N/A	
2.888	2.918	PAVED DITCH	RIGHT	
2.891	2.891	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER 5 MI. FOOD/LODGING 5 MI.
2.960	2.960	CULVERT	N/A	

# ROUTE 0015: BROWNSVILLE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.268	3.402	PAVED DITCH	RIGHT	
3.353	3.374	PAVED DITCH	LEFT	
3.357	3.357	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
3.407	3.407	CULVERT	N/A	
3.457	3.457	CULVERT	N/A	
3.529	3.529	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
3.623	3.623	CULVERT	N/A	
3.692	3.692	CULVERT	N/A	
4.054	4.137	PAVED DITCH	LEFT	
4.201	4.271	LANE DEVIATION	N/A	
4.318	4.318	CULVERT	N/A	
4.432	4.432	INTERSECTION	RIGHT	ROUTE 0406 (ROCK QUARRY ROAD)
4.494	4.494	CULVERT	N/A	
4.588	4.610	PAVED DITCH	LEFT	
4.590	4.590	CULVERT	N/A	
4.791	4.791	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER NEXT LEFT
4.856	4.856	CULVERT	N/A	
4.987	4.987	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER LODGING/FOOD/CAMPING INTERSTATE 65 70 CAVE CITY-PARK CITY
4.998	5.084	GUARD/GUIDE RAIL	LEFT	
5.029	5.029	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.047	5.100	PAVED DITCH	RIGHT	
5.048	5.048	CULVERT	N/A	
5.100	5.100	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
5.100	5.100	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
5.100	5.100	SIGN	N/A	GUIDE, TOURS/VISITOR CENTER LODGING/FOOD/CAMPING 70 INTERSTATE 65 CAVE CITY-PARK CITY
5.100	5.100	SIGN	RIGHT	REGULATORY, STOP
5.100	5.100	ROUTE END	N/A	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)

**ROUTE 0016: CAVE CITY ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM HIGHWAY 255 AT EAST PARK BOUNDARY
0.000	0.000	PARK BOUNDARY	N/A	
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (OLD MAMMOTH CAVE ROAD / NON NPS)
0.003	0.003	SIGN	RIGHT	GUIDE, KENTUCKY SCENIC BYWAY
0.003	0.003	SIGN	RIGHT	REGULATORY, BEGIN
0.006	0.006	CULVERT	N/A	
0.015	0.015	INTERSECTION	RIGHT	PAVED ROUTE (THE WAYFARER PARKING / NON NPS)
0.039	0.039	CULVERT	N/A	
0.054	0.054	SIGN	RIGHT	GUIDE, LEAVING MAMMOTH CAVE NATIONAL PARK
0.079	0.079	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES PROHIBITED
0.138	0.138	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.148	0.148	CULVERT	N/A	
0.178	0.178	INTERSECTION	RIGHT	ROUTE 0913 (SAND CAVE PARKING)
0.197	0.197	DROP INLET	RIGHT	
0.209	0.209	SIGN	RIGHT	GUIDE, MAMMOTH CAVE NATIONAL PARK A WORLD HERITAGE SITE AND INTERNATIONAL BIOSPHERE RESERVE
0.228	0.228	SIGN	RIGHT	WARNING, 25 M.P.H.
0.228	0.228	SIGN	RIGHT	WARNING, CONGESTED AREA
0.237	0.237	SIGN	RIGHT	GUIDE, SAND CAVE PARKING
0.299	0.299	SIGN	RIGHT	GUIDE, PARK RIDGE RD.
0.316	0.316	INTERSECTION	RIGHT	ROUTE 0106 (PARK RIDGE ROAD)
0.332	0.332	SIGN	RIGHT	GUIDE, PARK RIDGE RD.
0.353	0.353	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER 4 MI. FOOD/LODGING 4 MI.
0.467	0.467	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.477	0.477	CULVERT	N/A	
0.602	0.602	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.613	0.613	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.621	0.621	CULVERT	N/A	
0.645	0.673	RETAINING WALL	LEFT	
0.670	0.670	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.683	0.683	INTERSECTION	RIGHT	ROUTE 0944 (LITTLE HOPE CEMETERY PARKING)
0.685	0.685	SIGN	LEFT	GUIDE, LITTLE HOPE CEMETERY
0.708	0.708	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.786	0.786	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

**ROUTE 0016: CAVE CITY ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.808	0.808	CULVERT	N/A	
1.085	1.085	SIGN	RIGHT	WARNING, 25 M.P.H.
1.085	1.085	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.132	1.132	CULVERT	N/A	
1.137	1.137	INTERSECTION	LEFT	UNPAVED ROUTE
1.228	1.228	INTERSECTION	LEFT	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.269	1.269	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER 3 MI. FOOD/LODGING 3 MI.
1.329	1.329	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.363	1.363	INTERSECTION	LEFT	ROUTE 0433 (MOUNT MCKINLEY UTILITY AREA)
1.433	1.433	CULVERT	N/A	
1.627	1.627	CULVERT	N/A	
1.829	1.829	CULVERT	N/A	
1.906	1.906	CULVERT	N/A	
2.100	2.100	CULVERT	N/A	
2.238	2.238	CULVERT	N/A	
2.375	2.384	PAVED DITCH	LEFT	
2.401	2.425	PAVED DITCH	RIGHT	
2.427	2.427	CULVERT	N/A	
2.441	2.441	INTERSECTION	RIGHT	ROUTE 0420 (ELEVATOR SHAFT ROAD)
2.683	2.683	CULVERT	N/A	
2.859	2.859	SIGN	RIGHT	GUIDE, CAVE TOURS NEXT RIGHT
2.883	2.883	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.883	2.883	TRAFFIC LIGHT	RIGHT	
2.899	2.899	CULVERT	N/A	
2.946	2.946	TRAFFIC LIGHT	RIGHT	
2.946	2.946	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.977	2.977	SIGN	RIGHT	GUIDE, TOURS/VISITORS CENTER FOOD/LODGING INTERSTATE 65
2.995	2.995	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
3.015	3.015	TRAFFIC LIGHT	RIGHT	
3.016	3.016	SIGN	RIGHT	REGULATORY, STOP
3.020	3.020	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
3.020	3.020	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
3.020	3.020	INTERSECTION	N/A	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)

**ROUTE 0016: CAVE CITY ROAD** 

FROM TO

<b>MILEPOST</b>	MILEPOST	FEATURE	SIDE	COMMENT
3.020	3.020	ROUTE END	N/A	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)

**ROUTE 0020: PARK CITY ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM I-65 AT PARK BOUNDARY (PARK CITY)
0.000	0.000	PARK BOUNDARY	N/A	
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (MAMMOTH CAVE PARKWAY / NON NPS)
0.002	0.002	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.002	0.002	SIGN	RIGHT	WARNING, SHARE THE ROAD
0.003	0.031	GUARD/GUIDE RAIL	RIGHT	
0.010	0.010	SIGN	RIGHT	WARNING, RAMP 20 M.P.H.
0.023	0.023	SIGN	RIGHT	REGULATORY, MAMMOTH CAVE NATIONAL PARK COMMERCIAL VEHICLES PROHIBITED
0.037	0.037	INTERSECTION	LEFT	ROUTE 0225 (PARK CITY CEMETERY ROAD)
0.042	0.141	GUARD/GUIDE RAIL	LEFT	
0.068	0.068	SIGN	RIGHT	GUIDE, LEAVING MAMMOTH CAVE NATIONAL PARK
0.074	0.074	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 45
0.124	0.124	SIGN	RIGHT	WARNING, CONGESTED AREA AHEAD
0.124	0.124	SIGN	RIGHT	WARNING, SHARE THE ROAD
0.132	0.132	SIGN	RIGHT	GUIDE, INTERSTATE 65
0.132	0.132	SIGN	RIGHT	GUIDE, NORTH
0.132	0.132	SIGN	RIGHT	GUIDE, INTERSTATE 65
0.132	0.132	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.132	0.132	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.132	0.132	SIGN	RIGHT	GUIDE, SOUTH
0.146	0.198	GUARD/GUIDE RAIL	LEFT	
0.147	0.147	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES
0.147	0.147	SIGN	LEFT	REGULATORY, NO PARKING
0.165	0.165	SIGN	RIGHT	REGULATORY, SPEED ZONE AHEAD
0.174	0.174	SIGN	RIGHT	GUIDE, ZION CEMETERY ROAD DOYLE ROAD PUBLIC GOLF COURSE
0.180	0.198	GUARD/GUIDE RAIL	RIGHT	
0.199	0.199	SIGN	RIGHT	GUIDE, ZION
0.201	0.201	INTERSECTION	LEFT	ROUTE 5602 (ZION CEMETERY ROAD)
0.201	0.201	INTERSECTION	RIGHT	ROUTE 5601 (DOYLE ROAD)
0.206	0.206	SIGN	RIGHT	GUIDE, DOYLE RD
0.207	0.207	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.209	0.226	GUARD/GUIDE RAIL	RIGHT	
0.211	0.322	GUARD/GUIDE RAIL	LEFT	

**ROUTE 0020: PARK CITY ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.226	0.226	SIGN	RIGHT	WARNING, 35 M.P.H.
0.226	0.226	SIGN	RIGHT	WARNING, 500 FT
0.226	0.226	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.232	0.232	SIGN	RIGHT	GUIDE, ZION CEMETERY ROAD DOYLE ROAD PUBLIC GOLF COURSE
0.254	0.254	SIGN	RIGHT	GUIDE, PRAIRIE RESTORATION NEXT 1.5 MILES
0.299	0.299	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.299	0.299	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.318	0.318	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.318	0.318	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.327	0.327	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.327	0.327	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.328	0.328	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES
0.328	0.328	SIGN	LEFT	REGULATORY, NO PARKING
0.346	0.346	SIGN	RIGHT	GUIDE, BIKE ROUTE
0.346	0.346	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.401	0.401	INTERSECTION	RIGHT	ROUTE 0911 (PARK CITY ENTRANCE SIGN PARKING)
0.404	0.651	GUARD/GUIDE RAIL	LEFT	
0.423	0.423	SIGN	RIGHT	WARNING, 35 M.P.H.
0.423	0.423	SIGN	RIGHT	WARNING, 500 FT
0.423	0.423	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.447	0.447	CULVERT	N/A	
0.509	0.548	GUARD/GUIDE RAIL	RIGHT	
0.509	0.509	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
0.510	0.510	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 45
0.543	0.543	CULVERT	N/A	
0.654	0.703	GUARD/GUIDE RAIL	RIGHT	
0.708	0.831	GUARD/GUIDE RAIL	LEFT	
0.799	1.165	GUARD/GUIDE RAIL	RIGHT	
0.941	1.057	GUARD/GUIDE RAIL	LEFT	
1.056	1.056	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER 7 MI. FOOD/LODGING 7 MI.
1.103	1.103	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.107	1.146	GUARD/GUIDE RAIL	LEFT	
1.147	1.230	PAVED DITCH	LEFT	

**ROUTE 0020: PARK CITY ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.151	1.151	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
1.172	1.172	SIGN	RIGHT	GUIDE, HISTORIC DIAMOND CAVERNS PUBLIC ATTRACTION NEXT RIGHT
1.183	1.226	PAVED DITCH	RIGHT	
1.230	1.230	INTERSECTION	LEFT	ROUTE 5603 (SHORT CAVE ROAD)
1.230	1.230	INTERSECTION	RIGHT	PAVED PARKING (DIAMOND CAVERNS PARKING / NON NPS)
1.235	1.235	SIGN	RIGHT	REGULATORY, NO MOTOR VEHICLES
1.236	1.236	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
1.237	1.240	PAVED DITCH	RIGHT	
1.256	1.292	PAVED DITCH	LEFT	
1.316	1.316	INTERSECTION	RIGHT	PAVED PARKING (DIAMOND CAVERNS PARKING / NON NPS)
1.320	1.320	SIGN	RIGHT	REGULATORY, NO MOTOR VEHICLES
1.320	1.320	SIGN	LEFT	REGULATORY, STOP
1.321	1.731	GUARD/GUIDE RAIL	LEFT	
1.324	1.665	GUARD/GUIDE RAIL	RIGHT	
1.368	1.368	SIGN	RIGHT	GUIDE, HISTORIC DIAMOND CAVERNS PUBLIC ATTRACTION NEXT LEFT
1.391	1.391	SIGN	RIGHT	REGULATORY, PARKWAY SPEED LIMIT 50
1.670	1.670	INTERSECTION	RIGHT	UNPAVED ROUTE
1.722	1.722	CULVERT	N/A	
1.871	1.944	GUARD/GUIDE RAIL	RIGHT	
1.910	1.949	GUARD/GUIDE RAIL	LEFT	
1.916	1.916	CULVERT	N/A	
1.949	1.949	SIGN	RIGHT	GUIDE, PRAIRIE RESTORATION NEXT 1.5 MILES
1.996	1.996	SIGN	RIGHT	GUIDE, CEDAR HILL CHURCH
1.996	2.126	GUARD/GUIDE RAIL	RIGHT	
2.041	2.041	DROP INLET	LEFT	
2.050	2.050	SIGN	LEFT	GUIDE, CEDAR HILL
2.050	2.050	SIGN	RIGHT	GUIDE, CEDAR HILL
2.051	2.051	INTERSECTION	LEFT	ROUTE 5111 (CEDAR HILL CHURCH ROAD)
2.105	2.105	SIGN	RIGHT	GUIDE, CEDAR HILL CHURCH
2.116	2.162	GUARD/GUIDE RAIL	LEFT	
2.117	2.117	SIGN	RIGHT	WARNING, 35 M.P.H.
2.117	2.117	SIGN	RIGHT	WARNING, 500 FT
2.117	2.117	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

**ROUTE 0020: PARK CITY ROAD** 

FROM	TO			
<b>MILEPOST</b>	MILEPOST	FEATURE	SIDE	COMMENT
2.163	2.163	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.185	2.185	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER BROWNSVILLE CAVE CITY
2.191	2.191	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
2.191	2.191	SIGN	RIGHT	GUIDE, BIKE ROUTE
2.216	2.273	GUARD/GUIDE RAIL	RIGHT	
2.218	2.218	SIGN	RIGHT	GUIDE, TOURS/VISITOR CENTER BROWNSVILLE
2.219	2.219	SIGN	LEFT	REGULATORY, NO PARKING
2.220	2.220	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES
2.220	2.220	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.220	2.220	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.239	2.239	SIGN	RIGHT	GUIDE, BIKE ROUTE
2.239	2.239	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
2.276	2.276	SIGN	RIGHT	REGULATORY, STOP
2.280	2.280	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
2.280	2.280	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
2.280	2.280	ROUTE END	N/A	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)

**ROUTE 0101: FLINT RIDGE ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.65 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.009	0.009	SIGN	RIGHT	REGULATORY, STOP
0.013	0.013	CULVERT	N/A	
0.014	0.014	GATE	N/A	
0.034	0.034	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.044	0.044	CULVERT	N/A	
0.064	0.064	SIGN	RIGHT	GUIDE, DENNISON FERRY 6 MI. DAY USE AREA
0.178	0.178	CULVERT	N/A	
0.232	0.232	CULVERT	N/A	
0.689	0.689	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.746	0.746	CULVERT	N/A	
0.753	0.753	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.772	0.772	CULVERT	N/A	
0.812	0.901	PAVED DITCH	LEFT	
0.855	0.855	CULVERT	N/A	
1.034	1.034	CULVERT	N/A	
1.077	1.077	INTERSECTION	RIGHT	UNPAVED ROUTE (GATED / 3 SPRINGS)
1.270	1.270	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
1.284	1.284	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.342	1.342	CULVERT	N/A	
1.598	1.598	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.680	1.680	INTERSECTION	LEFT	ROUTE 0104 (GREAT ONYX CAVE ROAD)
1.983	1.983	INTERSECTION	LEFT	ROUTE 0943 (MAMMOTH CAVE CHURCH PARKING)
2.003	2.003	CULVERT	N/A	
2.010	2.010	SIGN	LEFT	GUIDE, MAMMOTH CAVE CEMETERY
2.017	2.017	INTERSECTION	LEFT	ROUTE 0943 (MAMMOTH CAVE CHURCH PARKING)
2.860	2.860	SIGN	RIGHT	GUIDE, ADWELL CEMETERY
2.874	2.874	INTERSECTION	RIGHT	ROUTE 0423 (ADWELL SPRINGS ROAD)
3.050	3.057	PULLOUT	LEFT	
3.392	3.392	INTERSECTION	LEFT	ROUTE 0105 (CRYSTAL CAVE ROAD)
3.590	3.590	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25

**ROUTE 0101: FLINT RIDGE ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.628	3.628	GATE	N/A	
3.630	3.630	INTERSECTION	N/A	PAVED ROUTE (MAMMOTH CAVE ROAD / NON NPS)
3.630	3.630	INTERSECTION	RIGHT	ROUTE 0106 (PARK RIDGE ROAD)
3.630	3.630	PARK BOUNDARY	N/A	
3.630	3.630	ROUTE END	N/A	TO PARK BOUNDARY AND ROUTE 0106 (PARK RIDGE ROAD) ON RIGHT

**ROUTE 0102: CEDAR SINK ROAD** 

FROM	TO

MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.74 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0015 (BROWNSVILLE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0015 (BROWNSVILLE ROAD)
0.007	0.007	SIGN	RIGHT	REGULATORY, STOP
0.033	0.052	PAVED DITCH	RIGHT	
0.034	0.034	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
0.082	0.177	PAVED DITCH	RIGHT	
0.097	0.097	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.180	0.217	GUARD/GUIDE RAIL	RIGHT	
0.186	0.186	CULVERT	N/A	
0.211	0.211	CULVERT	N/A	
0.240	0.345	PAVED DITCH	RIGHT	
0.247	0.356	PAVED DITCH	LEFT	
0.346	0.393	GUARD/GUIDE RAIL	RIGHT	
0.375	0.375	CULVERT	N/A	
0.419	0.441	PAVED DITCH	LEFT	
0.432	0.475	GUARD/GUIDE RAIL	RIGHT	
0.476	0.553	GUARD/GUIDE RAIL	LEFT	
0.478	0.478	SIGN	RIGHT	GUIDE, CEDAR SINK TRAIL
0.557	0.557	INTERSECTION	RIGHT	UNPAVED ROUTE
0.573	0.573	INTERSECTION	LEFT	ROUTE 0919 (CEDAR SINK TRAILHEAD PARKING)
0.573	0.591	PAVED DITCH	RIGHT	
0.613	0.672	PAVED DITCH	LEFT	
0.614	0.639	PAVED DITCH	RIGHT	
0.672	0.672	SIGN	RIGHT	GUIDE, CEDAR SINK TRAIL
0.743	0.957	PAVED DITCH	RIGHT	
0.760	0.837	PAVED DITCH	LEFT	
0.860	0.927	GUARD/GUIDE RAIL	LEFT	
0.930	1.057	PAVED DITCH	LEFT	
0.949	1.008	PAVED DITCH	RIGHT	
1.136	1.136	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
1.171	1.171	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES PROHIBITED
1.197	1.197	SIGN	RIGHT	GUIDE, MAMMOTH CAVE NATIONAL PARK A WORLD HERITAGE SITE AND INTERNATIONAL BIOSPHERE RESERVI

ROUTE 0102: CEDAR SINK ROAD

FROM	TO
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MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
1.198	1.198	SIGN	RIGHT	GUIDE, LEAVING MAMMOTH CAVE NATIONAL PARK
1.207	1.220	PAVED DITCH	RIGHT	
1.220	1.220	SIGN	RIGHT	GUIDE, ROY DAVIS RD
1.220	1.220	PARK BOUNDARY	N/A	
1.220	1.220	CULVERT	N/A	
1.220	1.220	INTERSECTION	N/A	PAVED ROUTE (NATIONAL PARK ROAD / NON NPS)
1.220	1.220	ROUTE END	N/A	TO SOUTHWEST PARK BOUNDARY

# **ROUTE 0103: HOUCHINS FERRY ROAD SOUTH**

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM SOUTH PARK BOUNDARY
0.000	0.000	INTERSECTION	LEFT	UNPAVED ROUTE (NON NPS)
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (HOUCHINS FERRY ROAD / NON NPS)
0.000	0.000	PARK BOUNDARY	N/A	
0.008	0.008	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 8 TONS
0.008	0.008	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.008	0.008	SIGN	RIGHT	GUIDE, MAMMOTH CAVE NATIONAL PARK A WORLD HERITAGE SITE AND INTERNATIONAL BIOSPHERE RESERVE
0.014	0.014	GATE	N/A	
0.015	0.015	SIGN	N/A	WARNING, FERRY CLOSED
0.015	0.015	SIGN	N/A	WARNING, NO OUTLET
0.072	0.072	CULVERT	N/A	
0.074	0.108	CURB-AND-GUTTER	LEFT	
0.080	0.080	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.338	0.338	CULVERT	N/A	
0.393	0.421	GUARD/GUIDE RAIL	RIGHT	
0.419	0.437	GUARD/GUIDE RAIL	RIGHT	
0.458	0.458	CULVERT	N/A	
0.520	0.520	CULVERT	N/A	
0.592	0.592	CULVERT	N/A	
0.611	0.611	CULVERT	N/A	
0.703	0.703	CULVERT	N/A	
0.704	0.704	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.730	0.771	PAVED DITCH	RIGHT	
0.768	0.768	CULVERT	N/A	
0.960	0.960	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.993	1.041	CURB-AND-GUTTER	LEFT	
1.014	1.014	SIGN	RIGHT	WARNING, ROAD ENDS IN WATER
1.040	1.040	DROP INLET	LEFT	
1.043	1.043	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
1.050	1.050	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
1.051	1.051	INTERSECTION	LEFT	ROUTE 0904B (HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING)
1.055	1.055	INTERSECTION	RIGHT	ROUTE 0904A (HOUCHINS FERRY ROAD SOUTH PARKING)
1.059	1.059	INTERSECTION	LEFT	ROUTE 0222 (HOUCHINS FERRY CAMPGROUND ROAD)

# ROUTE 0103: HOUCHINS FERRY ROAD SOUTH

FROM	TO
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MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
1.063	1.070	CURB	LEFT	
1.068	1.068	SIGN	RIGHT	GUIDE, STOP HOUCHINS FERRY OPEN: 10:15AM - 6:00PM WAIT HERE FOR FERRY
1.070	1.070	INTERSECTION	N/A	PAVED ROUTE (HOUCHINS FERRY CROSSING RAMP #1)
1.070	1.070	ROUTE END	N/A	TO HOUCHINS FERRY CROSSING RAMP #1

# ROUTE 0103N: HOUCHINS FERRY ROAD NORTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM HOUCHINS FERRY RAMP CROSSING #2
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (HOUCHINS FERRY NORTH CROSSING RAMP #2)
0.001	0.001	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.003	0.003	SIGN	RIGHT	GUIDE, STOP HOUCHINS FERRY CLOSED
0.025	0.025	INTERSECTION	LEFT	ROUTE 0938 (HOUCHINS FERRY NORTH PARKING)
0.075	0.075	SIGN	RIGHT	WARNING, ROAD ENDS IN WATER
0.142	0.142	CULVERT	N/A	
0.148	0.148	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.158	0.158	CULVERT	N/A	
0.336	0.336	CULVERT	N/A	
0.381	0.381	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.500	0.500	INTERSECTION	N/A	ROUTE 0103N (HOUCHINS FERRY ROAD NORTH) UNPAVED SECTION
0.500	0.500	ROUTE END	N/A	TO OLLIE ROAD, OLLIE RIDGE ROAD INTERSECTION

**ROUTE 0106: PARK RIDGE ROAD** 

0.000         D.000         D.TERSECTION         LEFT         ROUTE 0016 (CAVE CITY ROAD)           0.000         0.000         INTERSECTION         RIGHT         ROUTE 0016 (CAVE CITY ROAD)           0.003         0.003         SIGN         RIGHT         REGULATORY, STOP           0.009         0.009         FIRE HYDRANT         RIGHT           0.035         SIGN         RIGHT         REGULATORY, SPEED LIMIT 35           0.121         0.121         SIGN         RIGHT         WARNING, GRAPHIC SIGN, NO TEXT           0.226         0.226         CULVERT         N/A           0.226         0.226         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         0.367         CULVERT         N/A         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         SIGN         LIEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.572         0.572         SIGN         RIGHT         REGULATOR	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000         INTERSECTION         RIGHT         ROUTE 0016 (CAVE CITY ROAD)           0.003         0.003         SIGN         RIGHT         REGULATORY, STOP           0.009         0.009         FIRE HYDRANT         RIGHT           0.035         0.035         SIGN         RIGHT         WARNING, GRAPHIC SIGN, NO TEXT           0.121         0.121         SIGN         RIGHT         WARNING, GRAPHIC SIGN, NO TEXT           0.226         0.226         CULVERT         N/A           0.228         0.228         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.2367         0.367         CULVERT         N/A           0.450         O.450         CULVERT         N/A           0.450         O.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.571         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 0.32 ON RIGHT
0.003         SIGN         RIGHT         REGULATORY, STOP           0.009         0.009         FIRE HYDRANT         RIGHT           0.035         0.035         SIGN         RIGHT         REGULATORY, SPEED LIMIT 35           0.121         0.121         SIGN         RIGHT         WARNING, GRAPHIC SIGN, NO TEXT           0.226         0.226         CULVERT         N/A           0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         0.367         CULVERT         N/A           0.450         0.450         CULVERT         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         0.572         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         CULVERT         N/A           0.614         SIGN         RI	0.000	0.000	INTERSECTION	LEFT	ROUTE 0016 (CAVE CITY ROAD)
0.009         FIRE HYDRANT         RIGHT           0.035         0.035         SIGN         RIGHT         REGULATORY, SPEED LIMIT 35           0.121         0.121         SIGN         RIGHT         WARNING, GRAPHIC SIGN, NO TEXT           0.226         0.226         CULVERT         N/A           0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         0.367         CULVERT         N/A           0.450         O.450         CULVERT         N/A           0.450         O.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         O.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO	0.000	0.000	INTERSECTION	RIGHT	ROUTE 0016 (CAVE CITY ROAD)
0.035         0.035         SIGN         RIGHT         REGULATORY, SPEED LIMIT 35           0.121         0.121         SIGN         RIGHT         WARNING, GRAPHIC SIGN, NO TEXT           0.226         0.226         CULVERT         N/A           0.227         0.228         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         0.367         CULVERT         N/A           0.450         0.450         CULVERT         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663	0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.121         0.121         SIGN         RIGHT         WARNING, GRAPHIC SIGN, NO TEXT           0.226         0.226         CULVERT         N/A           0.226         0.226         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         CULVERT         N/A         N/A           0.450         O.450         CULVERT         N/A           0.450         O.506         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.572         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         O.613         CULVERT         N/A           0.615         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         O.662         CULVERT         N/A           0.663         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.009	0.009	FIRE HYDRANT	RIGHT	
0.226         0.226         CULVERT         N/A           0.226         0.226         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         0.367         CULVERT         N/A           0.450         0.450         CULVERT         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         O.613         CULVERT         N/A           0.614         0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.669 </td <td>0.035</td> <td>0.035</td> <td>SIGN</td> <td>RIGHT</td> <td>REGULATORY, SPEED LIMIT 35</td>	0.035	0.035	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.226         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         0.367         CULVERT         N/A           0.450         0.450         CULVERT         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.614         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.661         0.661         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         SIG	0.121	0.121	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.228         0.228         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.367         0.367         CULVERT         N/A           0.450         0.450         CULVERT         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.699         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO	0.226	0.226	CULVERT	N/A	
0.367         CULVERT         N/A           0.450         0.450         CULVERT         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         CULVERT         N/A           0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.661         0.662         CULVERT         N/A           0.662         O.662         CULVERT         N/A           0.665         0.663         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.699         O.699         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794 </td <td>0.226</td> <td>0.226</td> <td>SIGN</td> <td>LEFT</td> <td>REGULATORY, GRAPHIC SIGN, NO TEXT</td>	0.226	0.226	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.450         0.450         CULVERT         N/A           0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         CULVERT         N/A           0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.661         0.661         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.062         CULVERT         N/A           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.699         0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A	0.228	0.228	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.450         0.450         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.661         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795	0.367	0.367	CULVERT	N/A	
0.506         0.506         CULVERT         N/A           0.506         0.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.615         0.613         CULVERT         N/A           0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.6617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.450	0.450	CULVERT	N/A	
0.506         0.506         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         CULVERT         N/A           0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.699         0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT	0.450	0.450	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.510         0.510         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.570         0.570         CULVERT         N/A           0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834	0.506	0.506	CULVERT	N/A	
0.570         0.570         CULVERT         N/A           0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.506	0.506	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.572         0.572         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.574         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.510	0.510	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.574         0.574         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.613         0.613         CULVERT         N/A           0.615         0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.570	0.570	CULVERT	N/A	
0.613         0.613         CULVERT         N/A           0.615         0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.572	0.572	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.615         0.615         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.617         0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.574	0.574	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.617         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         O.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.613	0.613	CULVERT	N/A	
0.662         0.662         CULVERT         N/A           0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.798         0.798         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.615	0.615	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.663         0.663         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.798         0.798         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.617	0.617	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.665         0.665         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.698         0.698         CULVERT         N/A           0.699         0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.798         0.798         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.662	0.662	CULVERT	N/A	
0.698         0.698         CULVERT         N/A           0.699         0.699         SIGN         LEFT REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT REGULATORY, GRAPHIC SIGN, NO TEXT           0.798         0.798         SIGN         RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT	0.663	0.663	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.699         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.798         0.798         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.665	0.665	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.702         0.702         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.798         0.798         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT         REGULATORY, GRAPHIC SIGN, NO TEXT	0.698	0.698	CULVERT	N/A	
0.794         0.794         CULVERT         N/A           0.795         0.795         SIGN         LEFT REGULATORY, GRAPHIC SIGN, NO TEXT           0.798         0.798         SIGN         RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT           0.834         0.834         CULVERT         N/A           0.835         SIGN         RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT	0.699	0.699	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.795 0.795 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 0.798 0.798 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 0.834 0.834 CULVERT N/A 0.835 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT	0.702	0.702	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.7980.798SIGNRIGHTREGULATORY, GRAPHIC SIGN, NO TEXT0.8340.834CULVERTN/A0.8350.835SIGNRIGHTREGULATORY, GRAPHIC SIGN, NO TEXT	0.794	0.794	CULVERT	N/A	
0.834     0.834     CULVERT     N/A       0.835     0.835     SIGN     RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT	0.795	0.795	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.835 0.835 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT	0.798	0.798	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
	0.834	0.834	CULVERT	N/A	
0.881	0.835	0.835	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
	0.881	0.881	CULVERT	N/A	

**ROUTE 0106: PARK RIDGE ROAD** 

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.881	0.881	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.884	0.884	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.913	0.913	CULVERT	N/A	
0.914	0.914	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.917	0.917	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
1.195	1.195	SIGN	RIGHT	WARNING, CAUTION SIDE ROAD AHEAD
1.263	1.263	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
1.263	1.263	INTERSECTION	RIGHT	PAVED ROUTE (ROY HUNTER ROAD / NON NPS)
1.265	1.265	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
1.371	1.371	SIGN	RIGHT	WARNING, CAUTION SIDE ROAD AHEAD
1.546	1.546	CULVERT	N/A	
2.839	2.839	INTERSECTION	RIGHT	PAVED ROUTE (HAMILTON VALLEY ROAD / NON NPS)
2.994	2.994	CULVERT	N/A	
3.610	3.610	INTERSECTION	LEFT	ROUTE 0101 (FLINT RIDGE ROAD)
3.610	3.610	SIGN	RIGHT	REGULATORY, STOP
3.610	3.610	PARK BOUNDARY	N/A	
3.610	3.610	INTERSECTION	RIGHT	PAVED ROUTE (MAMMOTH CAVE ROAD / NON NPS)
3.610	3.610	ROUTE END	N/A	TO PARK BOUNDARY AND ROUTE 0101 (FLINT RIDGE ROAD) ON LEFT

# ROUTE 0110: MAPLE SPRINGS LOOP

0.000         ROUTE BEGIN         N/A         FROM ROUTE 0014 (GREEN RIVER FERRY MP 1.09 ON RIGHT)           0.000         0.000         INTERSECTION         LEFT         ROUTE 0014 (GREEN RIVER FERRY ROAD)           0.000         0.000         INTERSECTION         RIGHT         ROUTE 0014 (GREEN RIVER FERRY ROAD)           0.000         0.000         SIGN         N/A         GUIDE, VISITOR CENTER STOCKHOLM           0.013         0.013         SIGN         RIGHT         REGULATORY, STOP           0.080         0.080         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           0.223         0.223         CULVERT         N/A           0.284         0.296         PULLOUT         LEFT           0.498         DA98         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         O.630         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH ROAD)           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRING CHURCH ROAD)           1.055	O NORTH)
0.000         0.000         INTERSECTION         RIGHT         ROUTE 0014 (GREEN RIVER FERRY ROAI           0.000         0.000         SIGN         N/A         GUIDE, VISITOR CENTER STOCKHOLM           0.013         0.013         SIGN         RIGHT         REGULATORY, STOP           0.080         0.080         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           0.223         0.223         CULVERT         N/A           0.284         0.296         PULLOUT         LEFT           0.498         0.498         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.021         1.021         SIGN         LEFT         GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO <t< td=""><td></td></t<>	
0.000         0.000         SIGN         N/A         GUIDE, VISITOR CENTER STOCKHOLM           0.013         0.013         SIGN         RIGHT         REGULATORY, STOP           0.080         0.080         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           0.223         0.223         CULVERT         N/A           0.284         0.296         PULLOUT         LEFT           0.498         0.498         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUT	O NORTH)
0.013         0.013         SIGN         RIGHT         REGULATORY, STOP           0.080         0.080         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           0.223         0.223         CULVERT         N/A           0.284         0.296         PULLOUT         LEFT           0.498         0.498         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT         GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEA           1.06	
0.080         0.080         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           0.223         0.223         CULVERT         N/A           0.284         0.296         PULLOUT         LEFT           0.498         0.498         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT         GUIDE, RESEARCH CENTER 4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEA           1.068         1.068         SIGN         RIGHT         REGULATORY, ONE WAY           1.	
0.223         0.223         CULVERT         N/A           0.284         0.296         PULLOUT         LEFT           0.498         0.498         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         I.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH ROMIT RAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH ROMIT ROWITE)           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEAD ROWITE)           1.068         1.068         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           1.100         1.100         SIGN         RIGHT         REGULATORY, ONE WAY	
0.284         0.296         PULLOUT         LEFT           0.498         0.498         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT         GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEA           1.068         1.068         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           1.100         1.100         SIGN         RIGHT         REGULATORY, ONE WAY	
0.498         0.498         INTERSECTION         RIGHT         UNPAVED ROUTE (GATED)           0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT         GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEA           1.068         1.068         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           1.100         1.100         SIGN         RIGHT         REGULATORY, ONE WAY	
0.516         0.516         CULVERT         N/A           0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEAD PROVED STRAILHEAD PROVED	
0.630         0.630         CULVERT         N/A           0.802         0.802         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT         GUIDE, RESEARCH CENTER .4 MI GOOD .1 MI TRAILHEAD PARKING .1 MI GROUP C.1           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEA           1.068         1.068         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           1.100         1.100         SIGN         LEFT         REGULATORY, ONE WAY           1.100         1.100         SIGN         RIGHT         REGULATORY, ONE WAY	
0.802         0.802         CULVERT         N/A           0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT         GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEA           1.068         1.068         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           1.100         1.100         SIGN         LEFT         REGULATORY, ONE WAY	
0.924         0.924         CULVERT         N/A           1.006         1.006         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.014         1.014         SIGN         RIGHT         GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.           1.021         1.021         SIGN         LEFT         GUIDE, GOOD SPRINGS CHURCH           1.021         1.021         INTERSECTION         RIGHT         ROUTE 0109 (GOOD SPRING CHURCH RO           1.055         1.055         SIGN         LEFT         REGULATORY, DO NOT ENTER           1.060         1.060         INTERSECTION         LEFT         ROUTE 0215 (MAPLE SPRINGS TRAILHEAD           1.068         1.068         SIGN         RIGHT         REGULATORY, SPEED LIMIT 25           1.100         1.100         SIGN         RIGHT         REGULATORY, ONE WAY           1.100         1.100         SIGN         RIGHT         REGULATORY, ONE WAY	
1.006 1.006 INTERSECTION RIGHT ROUTE 0109 (GOOD SPRING CHURCH RO  1.014 SIGN RIGHT GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.  1.021 1.021 SIGN LEFT GUIDE, GOOD SPRINGS CHURCH  1.021 1.021 INTERSECTION RIGHT ROUTE 0109 (GOOD SPRING CHURCH RO  1.055 1.055 SIGN LEFT REGULATORY, DO NOT ENTER  1.060 1.060 INTERSECTION LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEA  1.068 1.068 SIGN RIGHT REGULATORY, SPEED LIMIT 25  1.100 1.100 SIGN LEFT REGULATORY, ONE WAY	
1.014 1.014 SIGN RIGHT GUIDE, RESEARCH CENTER .4 MI GOOD MI TRAILHEAD PARKING .1 MI GROUP C.  1.021 1.021 SIGN LEFT GUIDE, GOOD SPRINGS CHURCH  1.021 1.021 INTERSECTION RIGHT ROUTE 0109 (GOOD SPRING CHURCH RO  1.055 1.055 SIGN LEFT REGULATORY, DO NOT ENTER  1.060 1.060 INTERSECTION LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEA  1.068 1.068 SIGN RIGHT REGULATORY, SPEED LIMIT 25  1.100 1.100 SIGN LEFT REGULATORY, ONE WAY	
MI TRAILHEAD PARKING .1 MI GROUP C.  1.021 1.021 SIGN LEFT GUIDE, GOOD SPRINGS CHURCH  1.021 1.021 INTERSECTION RIGHT ROUTE 0109 (GOOD SPRING CHURCH RO  1.055 1.055 SIGN LEFT REGULATORY, DO NOT ENTER  1.060 1.060 INTERSECTION LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEA  1.068 1.068 SIGN RIGHT REGULATORY, SPEED LIMIT 25  1.100 1.100 SIGN LEFT REGULATORY, ONE WAY  1.100 1.100 SIGN RIGHT REGULATORY, ONE WAY	AD)
1.021 1.021 INTERSECTION RIGHT ROUTE 0109 (GOOD SPRING CHURCH RO  1.055 1.055 SIGN LEFT REGULATORY, DO NOT ENTER  1.060 1.060 INTERSECTION LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEA  1.068 1.068 SIGN RIGHT REGULATORY, SPEED LIMIT 25  1.100 1.100 SIGN LEFT REGULATORY, ONE WAY  1.100 1.100 SIGN RIGHT REGULATORY, ONE WAY	
1.055 SIGN LEFT REGULATORY, DO NOT ENTER  1.060 1.060 INTERSECTION LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEA  1.068 1.068 SIGN RIGHT REGULATORY, SPEED LIMIT 25  1.100 1.100 SIGN LEFT REGULATORY, ONE WAY  1.100 1.100 SIGN RIGHT REGULATORY, ONE WAY	
1.060 1.060 INTERSECTION LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEAD 1.068 1.068 SIGN RIGHT REGULATORY, SPEED LIMIT 25 1.100 1.100 SIGN LEFT REGULATORY, ONE WAY 1.100 1.100 SIGN RIGHT REGULATORY, ONE WAY	AD) SPUR
1.0681.068SIGNRIGHTREGULATORY, SPEED LIMIT 251.1001.100SIGNLEFTREGULATORY, ONE WAY1.1001.100SIGNRIGHTREGULATORY, ONE WAY	
1.100 1.100 SIGN LEFT REGULATORY, ONE WAY 1.100 1.100 SIGN RIGHT REGULATORY, ONE WAY	D PARKING ROAD)
1.100 1.100 SIGN RIGHT REGULATORY, ONE WAY	
1.102 1.102 INTERSECTION LEFT ROUTE 0215 (MAPLE SPRINGS TRAILHEA	
	D PARKING ROAD)
1.103 1.103 SIGN RIGHT GUIDE, MAPLE SPRINGS TRAILHEAD	
1.104 1.104 SIGN LEFT GUIDE, MAPLE SPRINGS TRAILHEAD	
1.106 1.106 SIGN LEFT GUIDE, UNABLE TO READ FROM VIDEO	
1.144 1.144 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO	
1.149 SIGN RIGHT GUIDE, UNABLE TO READ FROM VIDEO	
1.246 1.246 CULVERT N/A	
1.259 1.259 SIGN RIGHT REGULATORY, DO NOT ENTER	
1.260 1.260 INTERSECTION RIGHT ROUTE 0223 (MAPLE SPRINGS LOOP CAM	IPGROUND)
1.342 1.342 INTERSECTION RIGHT ROUTE 0223 (MAPLE SPRINGS LOOP CAM	(IPGROUND)
1.347 SIGN RIGHT GUIDE, MAPLE SPRINGS GROUP CAMPGI	

# ROUTE 0110: MAPLE SPRINGS LOOP

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.348	1.348	SIGN	LEFT	GUIDE, MAPLE SPRINGS GROUPS CAMPGROUND
1.403	1.403	CULVERT	N/A	
1.509	1.548	GUARD/GUIDE RAIL	RIGHT	
1.530	1.530	CULVERT	N/A	
1.601	1.601	SIGN	RIGHT	GUIDE, MAPLE SPRINGS GROUP CAMPGROUND GOOD SPRINGS CHURCH TRAILHEAD PARKING
1.603	1.638	PULLOUT	LEFT	
1.651	1.651	INTERSECTION	LEFT	ROUTE 0434 (LEARNING CENTER ACCESS ROAD)
1.738	1.780	GUARD/GUIDE RAIL	RIGHT	
1.760	1.760	CULVERT	N/A	
1.914	1.914	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
1.960	1.960	SIGN	RIGHT	REGULATORY, STOP
1.960	1.960	SIGN	N/A	GUIDE, VISITOR CENTER STOCKHOLM
1.960	1.960	INTERSECTION	LEFT	ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)
1.960	1.960	INTERSECTION	RIGHT	ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)
1.960	1.960	ROUTE END	N/A	TO ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH) AT MP 2.03 ON RIGHT

# ROUTE 0115: OLLIE RIDGE ROAD (GREAT ONYX JOB CORP CENTER)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM PARK BOUNDARY
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (OLLIE RIDGE ROAD / NON NPS)
0.000	0.000	PARK BOUNDARY	N/A	
0.054	0.054	SIGN	RIGHT	REGULATORY, GREAT ONYX JOB CORPS NOTICE TO VISITORS HOURS 8:00 AM TO 4:00 PM VISITORS REPORT TO ADM. OFFICE 4:00
0.166	0.166	CULVERT	N/A	
0.200	0.200	INTERSECTION	RIGHT	UNPAVED ROUTE (WATER TOWER)
0.247	0.247	INTERSECTION	RIGHT	UNPAVED ROUTE (WATER TREATMENT AREA)
0.260	0.260	SIGN	RIGHT	REGULATORY, SPEED LIMIT 10
0.266	0.266	SIGN	RIGHT	GUIDE, CAUTION SECURITY GATE AHEAD BE PREPARED TO STOP PROCEED TO KEYBOARD ON LEFT WATCH FOR ON COMING TRAF
0.270	0.270	CULVERT	N/A	
0.284	0.284	GATE	N/A	HORIZONTAL AND DIAGONAL BARS
0.284	0.284	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
0.284	0.284	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
0.290	0.290	INTERSECTION	N/A	PAVED ROUTE (OPPORTUNITY WAY / GREAT ONYX JOB CORPS ENTRANCE ROAD / NON NPS)
0.290	0.290	ROUTE END	N/A	TO CENTER ENTRANCE GATE

#### ROUTE 0200: FROZEN NIAGARA ENTRANCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 1.23 ON LEFT
0.000	0.000	INTERSECTION	N/A	ROUTE 0016 (CAVE CITY ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0016 (CAVE CITY ROAD)
0.008	0.008	FIRE HYDRANT	RIGHT	
0.024	0.024	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.025	0.025	CULVERT	N/A	
0.026	0.026	SIGN	RIGHT	REGULATORY, STOP
0.066	0.066	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.066	0.066	SIGN	RIGHT	REGULATORY, OFFICIAL VEHICLES ONLY
0.093	0.093	CULVERT	N/A	
0.199	0.203	PAVED DITCH	RIGHT	
0.222	0.222	CULVERT	N/A	
0.317	0.352	PAVED DITCH	LEFT	
0.395	0.436	PAVED DITCH	LEFT	
0.430	0.430	INTERSECTION	LEFT	ROUTE 0500 (NEW ENTRANCE LOOP)
0.434	0.434	CULVERT	N/A	
0.449	0.449	INTERSECTION	LEFT	ROUTE 0500 (NEW ENTRANCE LOOP)
0.462	0.462	CULVERT	N/A	
0.534	0.598	PAVED DITCH	LEFT	
0.551	0.606	PAVED DITCH	RIGHT	
0.632	0.632	CULVERT	N/A	
0.782	0.782	CULVERT	N/A	
0.875	0.905	PAVED DITCH	LEFT	
0.926	0.926	CULVERT	N/A	
0.959	0.976	PAVED DITCH	LEFT	
0.976	0.976	CULVERT	N/A	
1.015	1.035	PULLOUT	LEFT	
1.032	1.032	CULVERT	N/A	
1.038	1.100	ONE-WAY	N/A	
1.038	1.038	INTERSECTION	LEFT	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.100	1.100	INTERSECTION	LEFT	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.100	1.100	INTERSECTION	N/A	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.100	1.100	ROUTE END	N/A	TO END OF LOOP

#### ROUTE 0201: CARMICHAEL ENTRANCE ROAD

1.040

1.040

ROUTE END

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 4.37 ON LEFT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0016 (CAVE CITY ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.015	0.015	FIRE HYDRANT	RIGHT	
0.019	0.019	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.122	0.122	SIGN	RIGHT	REGULATORY, STOP
0.128	0.128	INTERSECTION	RIGHT	ROUTE 0416 (NEW DISCOVERY ROAD)
0.132	0.144	PAVED DITCH	LEFT	
0.139	0.139	SIGN	RIGHT	REGULATORY, OFFICIAL VEHICLES ONLY
0.139	0.139	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.178	0.178	CULVERT	N/A	
0.350	0.350	CULVERT	N/A	
0.463	0.463	CULVERT	N/A	
0.549	0.709	PAVED DITCH	LEFT	
0.639	0.656	PAVED DITCH	RIGHT	
0.716	0.716	CULVERT	N/A	
0.750	0.792	PAVED DITCH	LEFT	
0.794	0.834	PAVED DITCH	RIGHT	
0.810	0.853	PAVED DITCH	LEFT	
0.888	0.888	INTERSECTION	LEFT	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
0.888	1.040	ONE-WAY	N/A	
1.040	1.040	INTERSECTION	N/A	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
1.040	1.040	INTERSECTION	LEFT	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)

Data Collected 5/30/2009 9-37

N/A

TO END OF LOOP

# ROUTE 0202: VISITOR CENTER PICNIC GROUNDS ROAD

FROM <u>MILEPOST</u>	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0901A (VISITOR CENTER PARKING AREA)
0.000	0.000	INTERSECTION	N/A	ROUTE 0901A (VISITOR CENTER PARKING AREA)
0.000	0.000	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.008	0.008	SIGN	RIGHT	REGULATORY, ONE WAY
0.008	0.008	SIGN	RIGHT	REGULATORY, STOP
0.024	0.024	GATE	N/A	
0.024	0.024	SIGN	N/A	REGULATORY, CLOSED
0.049	0.049	INTERSECTION	LEFT	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.113	0.113	INTERSECTION	LEFT	ROUTE 0931AZ (PICNIC GROUNDS PARKING AREA A)
0.122	0.122	INTERSECTION	LEFT	ROUTE 0931BZ (PICNIC GROUNDS PARKING AREA B)
0.147	0.147	FIRE HYDRANT	LEFT	
0.149	0.149	SIGN	RIGHT	GUIDE, VISITOR CENTER
0.154	0.154	INTERSECTION	LEFT	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.154	0.450	ONE-WAY	N/A	
0.164	0.164	SIGN	LEFT	REGULATORY, ONE WAY
0.198	0.198	INTERSECTION	LEFT	ROUTE 0931CZ (PICNIC GROUNDS PARKING AREA C)
0.210	0.210	INTERSECTION	LEFT	ROUTE 0931DZ (PICNIC GROUNDS PARKING AREA D)
0.336	0.336	CULVERT	N/A	
0.377	0.377	INTERSECTION	LEFT	ROUTE 0931EZ (PICNIC GROUNDS PARKING AREA E)
0.392	0.392	INTERSECTION	LEFT	ROUTE 0931FZ (PICNIC GROUNDS PARKING AREA F)
0.450	0.450	INTERSECTION	LEFT	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.450	0.450	INTERSECTION	RIGHT	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.450	0.450	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.450	0.450	ROUTE END	N/A	TO END OF LOOP

# ROUTE 0203: VISITOR CENTER PICNIC SHELTER ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.005	0.005	CULVERT	N/A	
0.027	0.027	INTERSECTION	LEFT	ROUTE 0907B (PICNIC SHELTER PARKING B)
0.027	0.027	INTERSECTION	RIGHT	ROUTE 0907C (PICNIC SHELTER PARKING C)
0.091	0.091	INTERSECTION	RIGHT	ROUTE 0907A (PICNIC SHELTER PARKING A)
0.121	0.121	INTERSECTION	RIGHT	ROUTE 0907A (PICNIC SHELTER PARKING A)
0.149	0.190	ONE-WAY	N/A	
0.149	0.149	INTERSECTION	LEFT	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.168	0.168	SIGN	RIGHT	GUIDE, HISTORIC ENTRANCE .3M RIVER STYX SPRING .7
0.190	0.190	INTERSECTION	RIGHT	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.190	0.190	INTERSECTION	LEFT	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.190	0.190	ROUTE END	N/A	TO END OF LOOP

# ROUTE 0205: HQ CAMPGROUND ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.46 ON LEFT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.008	0.008	INTERSECTION	RIGHT	ROUTE 0922 (SERVICES PARKING (POST OFFICE/DUMP STATION/GAS))
0.021	0.021	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.025	0.025	SIGN	RIGHT	GUIDE, GREEN RIVER VISITOR CENTER INTERSTATE 65
0.034	0.034	CULVERT	N/A	
0.041	0.041	SIGN	RIGHT	WARNING, SPEED BUMP AHEAD
0.052	0.052	INTERSECTION	RIGHT	ROUTE 0922 (SERVICES PARKING (POST OFFICE/DUMP STATION/GAS))
0.064	0.073	CURB-AND-GUTTER	LEFT	
0.081	0.081	INTERSECTION	LEFT	ROUTE 0949 (HQ CAMPGROUND EMPLOYEE PARKING)
0.081	0.081	INTERSECTION	RIGHT	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)
0.082	0.082	SIGN	RIGHT	GUIDE, CAMPSITES 91-111
0.082	0.082	SIGN	LEFT	GUIDE, CAMPSITES 91-111
0.085	0.085	SIGN	RIGHT	GUIDE, EMPLOYEE PARKING
0.094	0.094	SIGN	RIGHT	WARNING, SPEED BUMP AHEAD
0.099	0.099	INTERSECTION	LEFT	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)
0.099	0.099	INTERSECTION	RIGHT	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)
0.101	0.101	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.103	0.103	SIGN	LEFT	GUIDE, CAMPSITES 1-10
0.103	0.103	SIGN	RIGHT	GUIDE, CAMPSITES 1-10 ONE WAY
0.115	0.115	FIRE HYDRANT	RIGHT	
0.120	0.120	SIGN	LEFT	REGULATORY, RECYCLING AREA
0.120	0.120	SIGN	RIGHT	REGULATORY, RECYCLING AREA
0.139	0.139	INTERSECTION	RIGHT	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)
0.139	0.139	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.139	0.139	INTERSECTION	LEFT	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)
0.143	0.143	SIGN	LEFT	GUIDE, CAMPSITES 54-90 ONE WAY
0.143	0.143	SIGN	RIGHT	GUIDE, CAMPSITES 54-90 C ONE WAY
0.152	0.152	CULVERT	N/A	
0.168	0.168	FIRE HYDRANT	RIGHT	

ROUTE 0205: HQ CAMPGROUND ACCESS ROAD

<b>MILEPOST</b>	MILEPOST	FEATURE	SIDE	COMMENT
0.177	0.177	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.180	0.180	SIGN	N/A	GUIDE, CAMPSITES 11-55 D ONE WAY
0.180	0.180	INTERSECTION	LEFT	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)
0.180	0.180	INTERSECTION	RIGHT	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)
0.180	0.180	ROUTE END	N/A	TO ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)

# ROUTE 0223: MAPLE SPRINGS LOOP CAMPGROUND

FROM MILEDOST	TO		CIDE	COMMENT
0.000	<b>MILEPOST</b> 0.000	ROUTE BEGIN	SIDE N/A	FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.26
0.000	0.000	INTERSECTION	LEFT	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.000	0.250	ONE-WAY	N/A	
0.008	0.008	SIGN	RIGHT	REGULATORY, NO DAY USE PARKING
0.102	0.114	PULLOUT	LEFT	
0.244	0.244	CULVERT	N/A	
0.250	0.250	INTERSECTION	LEFT	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.250	0.250	INTERSECTION	RIGHT	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.250	0.250	ROUTE END	N/A	TO ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.34

# **ROUTE 0417: PARK MAINTENANCE ROAD**

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.08 ON RGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.011	0.011	SIGN	RIGHT	GUIDE, HEADQUARTERS PERSONNEL RANGER STATION WAREHOUSE
0.027	0.027	SIGN	RIGHT	WARNING, NO OUTLET
0.027	0.027	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.045	0.045	CULVERT	N/A	
0.139	0.139	SIGN	RIGHT	GUIDE, SCIENCE MAINTENANCE SEASONAL QUARTERS
0.140	0.140	SIGN	RIGHT	GUIDE, FASTEN SAFETY BELTS
0.163	0.163	SIGN	RIGHT	GUIDE, HEADQUARTERS PERSONNEL
0.166	0.166	INTERSECTION	LEFT	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.167	0.167	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.168	0.168	CULVERT	N/A	
0.181	0.181	INTERSECTION	LEFT	ROUTE 0905 (RECYCLING AREA PARKING)
0.286	0.286	FIRE HYDRANT	RIGHT	
0.289	0.289	INTERSECTION	LEFT	ROUTE 0958 (FUELING/BUS PARKING AREA)
0.308	0.308	SIGN	RIGHT	GUIDE, RANGER STATION TRAINING CENTER
0.327	0.327	INTERSECTION	LEFT	ROUTE 0958 (FUELING/BUS PARKING AREA)
0.331	0.331	INTERSECTION	RIGHT	ROUTE 0903AZ (RANGER TRAINING CENTER PARKING AREA A)
0.334	0.334	DROP INLET	RIGHT	
0.334	0.334	SIGN	RIGHT	REGULATORY, AUTHORIZED VEHICLES ONLY
0.336	0.336	SIGN	LEFT	REGULATORY, AUTHORIZED VEHICLES ONLY
0.342	0.342	INTERSECTION	RIGHT	ROUTE 0956 (FITNESS CENTER PARKING AREA)
0.350	0.350	GATE	N/A	
0.362	0.362	FIRE HYDRANT	RIGHT	
0.365	0.365	SIGN	RIGHT	GUIDE, CONTRACTING WAREHOUSE
0.373	0.373	INTERSECTION	LEFT	ROUTE 0902B (CONCESSION SERVICE PARKING)
0.373	0.373	INTERSECTION	RIGHT	ROUTE 0902A (MAINTENANCE PARKING)
0.379	0.379	SIGN	RIGHT	REGULATORY, 3-WAY
0.379	0.379	SIGN	RIGHT	REGULATORY, STOP

# **ROUTE 0417: PARK MAINTENANCE ROAD**

FROM	TO			
<b>MILEPOST</b>	MILEPOST	FEATURE	SIDE	COMMENT
0.401	0.401	SIGN	RIGHT	GUIDE, SCIENCE AND RESOURCES MANAGEMENT
0.407	0.407	INTERSECTION	LEFT	ROUTE 0948 (S & RM EMPLOYEE PARKING #2)
0.409	0.409	INTERSECTION	RIGHT	ROUTE 0947 (S & RM EMPLOYEE PARKING #1)
0.421	0.421	INTERSECTION	RIGHT	ROUTE 0902A (MAINTENANCE PARKING) UNPAVED PORTON
0.425	0.425	FIRE HYDRANT	RIGHT	
0.430	0.430	FIRE HYDRANT	RIGHT	
0.459	0.459	INTERSECTION	LEFT	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.517	0.517	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.580	0.580	INTERSECTION	LEFT	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.580	0.580	INTERSECTION	N/A	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.580	0.580	ROUTE END	N/A	TO END OF LOOP

# ROUTE 0418: RESIDENCE LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.010	0.010	FIRE HYDRANT	RIGHT	
0.019	0.019	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.019	0.019	SIGN	RIGHT	WARNING, SLOW CHILDREN PLAYING
0.029	0.029	SIGN	LEFT	GUIDE, EASTERN NATIONAL PARKS
0.033	0.033	CULVERT	N/A	
0.038	0.038	INTERSECTION	RIGHT	ROUTE 0419 (SUPERINTENDENT OFFICE ROAD)
0.078	0.078	CULVERT	N/A	
0.087	0.087	SIGN	RIGHT	GUIDE, EXTERNAL PROGRAMS
0.090	0.090	INTERSECTION	LEFT	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.103	0.103	FIRE HYDRANT	RIGHT	
0.109	0.109	SIGN	RIGHT	GUIDE, INTERPRETATION AND FEE MANAGEMENT
0.125	0.125	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.125	0.125	SIGN	RIGHT	WARNING, SLOW CHILDREN PLAYING
0.149	0.149	FIRE HYDRANT	RIGHT	
0.186	0.186	SIGN	RIGHT	GUIDE, PRIVATE RESIDENCE
0.187	0.187	SIGN	LEFT	GUIDE, PRIVATE RESIDENCE
0.234	0.234	CULVERT	N/A	
0.290	0.290	CULVERT	N/A	
0.320	0.320	INTERSECTION	LEFT	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.320	0.320	INTERSECTION	RIGHT	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.320	0.320	ROUTE END	N/A	TO END OF LOOP

# ROUTE 0419: SUPERINTENDENT OFFICE ROAD

FROM	TO		a	601 T TTV
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0418 (RESIDENCE LOOP ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.007	0.007	SIGN	LEFT	GUIDE, SUPERINTENDENT PERSONNEL NETWORK OFFICE
0.011	0.011	INTERSECTION	RIGHT	ROUTE 0905 (RECYCLING AREA PARKING)
0.034	0.034	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.051	0.051	SIGN	RIGHT	GUIDE, ENVIRONMENTAL EDUCATION
0.052	0.052	CULVERT	N/A	
0.062	0.062	SIGN	LEFT	GUIDE, ADMINISTRATION AND PERSONNEL
0.067	0.067	FIRE HYDRANT	RIGHT	
0.069	0.069	SIGN	RIGHT	GUIDE, SUPERINTENDENT OFFICE
0.090	0.090	SIGN	RIGHT	GUIDE, CUMBERLAND PIEDMONT NETWORK
0.100	0.100	INTERSECTION	N/A	ROUTE 0946 (ADMINISTRATION AREA EMPLOYEE PARKING)
0.100	0.100	ROUTE END	N/A	TO ROUTE 0946 (ADMINISTRATION AREA EMPLOYEE PARKING)

**ROUTE 0420: ELEVATOR SHAFT ROAD** 

FROM	TO			
<b>MILEPOST</b>	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 2.44 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0016 (CAVE CITY ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0016 (CAVE CITY ROAD)
0.010	0.010	SIGN	RIGHT	REGULATORY, OFFICIAL VEHICLES ONLY
0.022	0.022	INTERSECTION	LEFT	ROUTE 0420 (ELEVATOR SHAFT ROAD)
0.035	0.035	INTERSECTION	RIGHT	ROUTE 0923 (ELEVATOR PARKING)
0.073	0.073	FIRE HYDRANT	RIGHT	
0.077	0.077	CULVERT	N/A	
0.080	0.080	INTERSECTION	RIGHT	ROUTE 0420 (ELEVATOR SHAFT ROAD)
0.080	0.080	INTERSECTION	LEFT	ROUTE 0420 (ELEVATOR SHAFT ROAD)
0.080	0.080	ROUTE END	N/A	TO END OF LOOP

**ROUTE 0430: SUNSET LODGE ROAD** 

FROM	TO
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<b>MILEPOST</b>	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM SOUTHWEST END OF ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)
0.000	0.000	INTERSECTION	N/A	ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)
0.009	0.009	FIRE HYDRANT	LEFT	
0.026	0.026	INTERSECTION	LEFT	ROUTE 0906A (SUNSET LODGE PARKING A)
0.035	0.035	CULVERT	N/A	
0.045	0.070	CURB	LEFT	
0.076	0.076	INTERSECTION	LEFT	ROUTE 0906B (SUNSET LODGE PARKING B)
0.088	0.088	INTERSECTION	RIGHT	ROUTE 0957 (HERITAGE TRAIL PARKING)
0.090	0.090	INTERSECTION	N/A	DEAD END
0.090	0.090	ROUTE END	N/A	TO HIKING TRAIL AND END OF ROUTE 0957 (HERITAGE TRAIL PARKING) ON RIGHT

ROUTE 0500: NEW ENTRANCE LOOP

MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD) AT MP $0.43$
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
0.021	0.021	INTERSECTION	LEFT	ROUTE 0500 (NEW ENTRANCE LOOP)
0.021	0.021	INTERSECTION	RIGHT	ROUTE 0500 (NEW ENTRANCE LOOP)
0.122	0.122	CULVERT	N/A	
0.145	0.145	INTERSECTION	LEFT	ROUTE 0500 (NEW ENTRANCE LOOP)
0.145	0.145	INTERSECTION	RIGHT	ROUTE 0500 (NEW ENTRANCE LOOP)
0.160	0.160	INTERSECTION	LEFT	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
0.160	0.160	INTERSECTION	RIGHT	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
0.160	0.160	ROUTE END	N/A	TO ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD) AT MP 0.45

# ROUTE 0501: VISITOR CENTER CAMPGROUND LOOP D

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MF 0.08 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0949 (HQ CAMPGROUND EMPLOYEE PARKING)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.004	0.004	CULVERT	N/A	
0.010	0.010	SIGN	N/A	REGULATORY, CLOSED
0.010	0.010	GATE	N/A	
0.010	0.010	SIGN	N/A	REGULATORY, CLOSED
0.018	0.018	INTERSECTION	LEFT	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)
0.018	0.260	ONE-WAY	N/A	
0.021	0.021	SIGN	LEFT	REGULATORY, ONE WAY
0.022	0.022	DROP INLET	RIGHT	
0.052	0.052	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.078	0.080	CURB	LEFT	
0.079	0.079	CULVERT	N/A	
0.096	0.096	SIGN	RIGHT	GUIDE, CAMPFIRE CIRCLE AMPHITHEATER VISITOR CENTER
0.098	0.098	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.102	0.102	CULVERT	N/A	
0.260	0.260	INTERSECTION	LEFT	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)
0.260	0.260	INTERSECTION	N/A	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)
0.260	0.260	ROUTE END	N/A	TO END OF LOOP

# ROUTE 0502: VISITOR CENTER CAMPGROUND LOOP A

0.140

0.140

ROUTE END

FROM	TO			
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP $0.10~\mathrm{ON}$ LEFT
0.000	0.140	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.007	0.007	SIGN	RIGHT	GUIDE, TENT CAMPING ONLY
0.010	0.010	GATE	N/A	
0.010	0.010	SIGN	N/A	REGULATORY, CLOSED
0.052	0.052	SIGN	LEFT	REGULATORY, NO PARKING
0.120	0.120	DROP INLET	RIGHT	
0.136	0.136	SIGN	N/A	REGULATORY, CLOSED
0.136	0.136	GATE	N/A	
0.140	0.140	SIGN	RIGHT	REGULATORY, STOP
0.140	0.140	INTERSECTION	RIGHT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.140	0.140	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.140	0.140	INTERSECTION	N/A	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)

N/A

TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.14

# ROUTE 0503: VISITOR CENTER CAMPGROUND LOOP C

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.14 ON RIGHT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.000	0.380	ONE-WAY	N/A	
0.009	0.009	SIGN	N/A	REGULATORY, CLOSED
0.009	0.009	GATE	N/A	
0.376	0.376	GATE	N/A	
0.376	0.376	SIGN	N/A	REGULATORY, CLOSED
0.380	0.380	SIGN	RIGHT	REGULATORY, STOP
0.380	0.380	CULVERT	N/A	
0.380	0.380	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.380	0.380	INTERSECTION	N/A	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)
0.380	0.380	INTERSECTION	RIGHT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.380	0.380	ROUTE END	N/A	TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.10

# ROUTE 0504: VISITOR CENTER CAMPGROUND LOOP B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM END OF ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.000	0.410	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.010	0.010	GATE	N/A	
0.010	0.010	SIGN	N/A	REGULATORY, CLOSED
0.020	0.020	CULVERT	N/A	
0.102	0.102	CULVERT	N/A	
0.142	0.142	SIGN	LEFT	REGULATORY, NO PARKING
0.142	0.142	SIGN	LEFT	REGULATORY, NO MOTOR VEHICLES
0.299	0.299	SIGN	RIGHT	GUIDE, RESERVED UNTIL 6:00 PM
0.307	0.307	SIGN	RIGHT	GUIDE, RESERVED UNTIL 6:00 PM
0.409	0.409	GATE	N/A	
0.409	0.409	SIGN	N/A	REGULATORY, CLOSED
0.410	0.410	SIGN	LEFT	REGULATORY, STOP
0.410	0.410	INTERSECTION	LEFT	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.410	0.410	INTERSECTION	N/A	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)
0.410	0.410	ROUTE END	N/A	TO END OF LOOP

# Mammoth Cave National Park



Section 10 Appendix

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

## **TERM OR**

#### ABBREVIATION DESCRIPTION OR DEFINITION

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

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

year.

CRS Condition Rating Sheets. (Section 5)

Excellent rating with an index value of 95 or greater

Fair Fair rating with an index value from 61 to 84

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

Good Good rating with an index value from 85 to 94

IRI International Roughness Index

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

pavement when no fogline exists

MRR Manually Rated Route

N/A Not Applicable

NC Not Collected

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

PCR Pavement Condition Rating (Appendix B, Section 10)

Poor Poor Rating with an index value of 60 or less

RCI Roughness Condition Index

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

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

traffic.

SCR Surface Condition Rating (Appendix B, Section 10)

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

pavement to hinge point.

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

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

Data is collected on the following distresses and conditions:

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

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

#### **Calculation of Index Values**

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

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

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

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

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

#### **Alligator Crack Index**

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

#### Where:

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

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

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

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

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

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

#### Severity Levels:

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

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

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

#### **Longitudinal Crack Index**

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

#### Where:

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

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

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

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

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

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

#### Severity Levels:

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

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

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

#### **Transverse Crack Index**

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

Where:

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

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

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

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

Severity Levels:

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

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

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

## **Patching Index**

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

Where:

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

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

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

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

There are no severity levels for patching.

#### **Rutting Index**

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

Where:

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

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

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

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

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

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

Severity Levels:

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

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

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

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

## **Roughness Condition Index**

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

#### Where:

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

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

There is no applicable threshold for failure for this index.

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

#### **Surface Condition Rating Index**

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

Where:

See above for determinations of AC\_INDEX, LC\_INDEX, TC\_INDEX, PATCH\_INDEX and RUT\_INDEX.

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

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

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

Where:

See above for determinations of SCR and RCI.

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

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

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

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

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

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

Where:

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

## Parking Lot and Manually Rated Road Condition Rating

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

Raveling – loss of surface rock chips revealing previous surface

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

Rutting

Potholes/Patching

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

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

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

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

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

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

Cracking of any type

Rutting

Potholes/Patching

## **Ratings - Asphalt:**

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

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

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

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

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

**Under Construction 100** 

Excellent 97

Good 90

Fair 73

Poor 45

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

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

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

## **Digital Image Information**

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

## Right-of-way (ROW) Video

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

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

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

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

#### **Pavement Video**

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

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

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

## FHWA ARAN GPS & Inertial System

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

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

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

#### **GPS SHAPEFILES**

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

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

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

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

## **Scenic Photos**

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

#### **APPENDIX D: METADATA**

## FHWA – NPS Road Inventory Program Cycle 4 Metadata

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

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

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

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

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

### **Specific Caveats**

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

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a "station".
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary
  direction video and mileage. Signs and Mile Markers are the only features collected using the oppositedirection video with mileage location referenced to the primary direction lane of the roadway.
- Route\_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park ROAD 04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park\_PKG\_04. dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

#### **Key to Notes in Tables**

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

# Access Database Metadata

## **MASTER Table Metadata**:

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

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

# PMS\_FEATURE Table Metadata:

				g 0 + 1 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +		EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1	DID CYCLE	3737	4.6.1.11.11.11.11.11	D ( IDM )	EINMA D	100% Referenced to
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	other tables
	CT A TE	WW	State of home words in least of	Daniel ID Markins	Park Input / FHWA	H-4-4-1(1)
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested (1) 100% Referenced to
3	DADY ALDHA	XXXX	Dorle alpha anda	Route ID Meeting	NPS References	other tables
3	PARK_ALPHA	ΛΛΛΛ	Park alpha code	Route ID Meeting	NPS References	100% Referenced to
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	other tables
4	FARK_NO	ΛΛΛΛ	Fark numeric code	Route ID Meeting	Park Input / FHWA	100% Referenced to
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	other tables
5	KIE_NO	JJJJAAA	Facility Management	Route ID Meeting	Classification	other tables
			Software System Equipment			
6	FMSS_EQUIP	XXXXXXX	number	NPS FMSS application	NPS References	Untested
	TMSS_EQUI		number	THE THISE application	Park Input / FHWA	100% Referenced to
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	other tables
		<del></del>	Survey lane: PRI (primary)		Park Input / FHWA	
8	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
				ARAN Data		
				Collection/Contractor Post-		
9	MP	999.999 (miles)	Feature location along route	processing	Video Analysis	<=0.001 mile
			Feature Beginning location			
10	BEG_MP	999.999 (miles)	along route	Contractor Post-processing	Video Analysis	<=0.001 mile
			Feature Ending location			
11	END_MP	999.999 (miles)	along route	Contractor Post-processing	Video Analysis	<=0.001 mile
12	FEATURE_LENGTH	999.99 (Feet)	Linear Feature Length	Contractor Post-processing	Database Processing	100%
13	EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Analysis	Untested
			Event sub-category of			
14	EVENT_CODE	XXXX	feature	Contractor Post-processing	Video Analysis	Untested
			Feature designation:			
15	FEATURE_TYPE	(Text)	LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
1	ELIENTE DEGG		Description of		X7' 1	<b>T</b>
16	EVENT_DESC	(Text)	feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
1.0	COMPANION	(OT / A 9)	Sign condition. N/A. Not to		X7'1 4 1 '	Values inaccurate,
18	CONDITION	"N/A"	be populated	Contractor Post-processing	Video Analysis	defaulted to "N/A"
19	COMMENT	(T4)	Sign label, intersecting	Contractor Doct	Dotoboso Ducassina	Untested
19	COMMENT	(Text)	route, etc.  Offset from Road Edge.	Contractor Post-processing	Database Processing	Values inaccurate,
20	OFFSET	"N/A"	N/A. Not to be populated	Contractor Post-processing	Database Processing	defaulted to "N/A"
20	OLLSEI	1 <b>V</b> /A	IN/A. Not to be populated	Contractor Fost-processing	Database Flocessing	uciaulieu to IN/A

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

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

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

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

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

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			4, for RIP data collection			100% Referenced to other
1	RIP_CYCLE	XX	Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested. (1)
						100% Referenced to other
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
					Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
					Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	tables
			Survey lane: PRI (primary)		Park Input/FHWA	
7	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
			MP at start of road interval			
	DEC 10	000 000 ( '1 )	described by database			1000/ (2)
8	BEG_MP	999.999 (miles)	record	Contractor Post-processing	Database Processing	100% (3)
			MP at end of road interval			
9	END MP	999.999 (miles)	described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_ML	999.999 (IIIIIes)	Length of road interval as	Collitación Fost-processing	Database Flocessing	100% (3)
10	INT_LENGTH	999.9 (ft)	aggregated for data table	Contractor Post-processing	Database Processing	100%
11	RTE LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100% (3)
12	NO LANES	99	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
13	_	99	Data collection lane	<del> </del>	Database Processing	Untested. (1)
13	LANE_NO	99	WiseCrax (crack detection	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	software) analysis width	Contractor Post-processing	Automatic Output	Untested
15	LANE_WIDTH	99.9 (ft)	Width of lane	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
16	PAVE_WIDTH	99.9 (ft)		Contractor Post-processing  Contractor Post-processing	Video Analysis  Video Analysis	95%, <=1.0 foot
-	_	. ,	Full pavement width	1 0	j	
17	SHLD_WIDTH_L	99.9 (ft)	Left shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
18	SHLD_WIDTH_R	99.9 (ft)	Right shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
1.0	am b dom r	37/4	N/A. Intended to be Left	ARAND C. C.		Values inaccurate, defaulted
19	SHLD_COND_L	N/A	shoulder condition	ARAN Data Collection	Survey Crew Input	to "N/A"
20	CHI D. COND. B.	NT / A	N/A. Intended to be Right	ADANDA CH	S. a. Cara I	Values inaccurate, defaulted
20	SHLD_COND_R	N/A	shoulder condition	ARAN Data Collection	Survey Crew Input	to "N/A"
21	DDAIN COND I	NT/A	N/A. Intended to be Left	AD AN Data Callaction	Samuel Casar Instal	Values inaccurate, defaulted to "N/A"
21	DRAIN_COND_L	N/A	drainage condition	ARAN Data Collection	Survey Crew Input	
22	DDAIN COND D	N/A	N/A. Intended to be Right	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
22	DRAIN_COND_R	IN/A	drainage condition	AKAN Data Collection	Survey Crew Input	to N/A

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

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

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

# **ROUTE\_GPS** table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						100% referenced to other
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested
3	DADIZ ALDILA	VVVV	Doub alaba anda	Pauta ID Mastina	NPS References	100% Referenced to other tables
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
H	17HKK_110	717171	Tark numeric code	Route 15 Weeting	Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
					Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Classification	tables
						100% Referenced to other
						tables . 100 characters fit in
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	field
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
	DIDECTION	3/3/3/	Survey lane: PRI (primary) or		Park Input/FHWA	TT 1
9	DIRECTION	XXX	OPP (opposite)	Route ID Meeting	Determination	Untested
10	MP	999.999	Mile Post (at 0.01 record)	ARAN Data Collection, Contractor Post-processing	Survey Crew Input/GPS Processing	Untested (3)
10	IVII	777.777	GPS Latitude Co-ordinate	ARAN Data Collection,	Trocessing	Officsied (3)
11	GPS LAT	999.999999	(decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
			GPS Longitude Co-ordinate	ARAN Data Collection,		
12	GPS_LON	-999.999999	(-decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
				ARAN Data Collection,		
13	GPS_ELEV	99999.9	Elevation	Contractor Post-processing	Automatic Output	Untested
			GPS Satellite Mode	ARAN Data Collection,		
14	GPS_MODE	XXX	during collection	Contractor Post-processing	Automatic Output	Untested
			Cross Fall: % Slope at GPS	ADAN Data Calle of an		
15	XFALL	999.9	Location (Caution, Data not Validated)	ARAN Data Collection,	Automotic Output	Untested
15	AFALL	999.9	Grade: % Slope at GPS Location	Contractor Post-processing ARAN Data Collection,	Automatic Output	Untested
16	GRADE	999.9	(Caution, Data not Validated)	Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	Untested
19	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	Untested
20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	Untested

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

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

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			The Park's Alpha Code + "-" +			100%, Reference source for all
1	ROUTE_IDENT	XXXX-9999XXX	RTE_NO (below).	Route ID Meeting	Automatic Output	tables
						100%, Reference source for all
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
						100%, Reference source for all
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	tables
	171101_71271111	717777	Turk Triphia Code	Troute 15 Meeting	THE References	100%, Reference source for all
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
						100%, Reference source for all
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100%, Reference source for all
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	tables
						100%, Reference source for all
7	RTE NO	9999XXX	Route Number	Route ID Meeting	Park Input	tables
	KIL_NO	))))/AAA	Route (valide)	Route 1D Weeting	Tark input	100%, Reference source for all
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	tables
	_	, , ,		S		100%, Reference source for all
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
						100%, Reference source for all
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
١			~ ~	ARAN Data		100%, Reference source for all
11	INSP_DATE	MM/DD/YYYY	Collection Date	Collection	FHWA Determination	tables
12	ELINCT CLASS	XX	Functional Class	Douts ID Masting	Park Input/FHWA Determination	100%, Reference source for all tables
	FUNCT_CLASS			Route ID Meeting		
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
1.4	GT A TEG	3737	Additional State Park Route	D D W	D 11 WINNE CO	17 171
14	STATE2	XX	traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
			NPS's Facility Management Software System (FMSS) Asset			100%, Reference source for all
15	FMSS_NO	(Text)	number	Route ID Meeting	Park Input	tables
13	111100_110	(TOAL)	FMSS Surface Equipment	Route ID Wiccing	т шк пірш	mores
16	FMSS_SUR_EQP	(Text)	Number	Route ID Meeting	Park Input	Untested
		(/	Park Maintenance District Route			100%, Reference source for all
17	M_DISTRICT	(Text)	resides in	Route ID Meeting	Park Input	tables (1)
18	TOPOGRAPHY	(Text)	Predominate Terrain condition for	Route ID Meeting	FHWA Determination	100%, Reference source for all
10	1 22 0 0 1 1 1 1 1 1	(IOAL)	1 1 1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10070, Itolololloc Boulec for all

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN)			tables (1)
			Posted Speed Limit for Route			
19	POSTED_SPEED	99	(Value is Predominate Speed Limit along Route)	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
			8 2 2 2 2 2	8	· · · · · · · · · · · · · · · · · · ·	100%, Reference source for all
20	ARAN_ROUTE	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	tables
21	PARKING_AREA	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
22	CONCESSION	XXX	Yes/No	Route ID Meeting	Park Input	100%, Reference source for all tables
23	PAVED_MI	999.999	Paved mileage (to the nearest 0.001)	ARAN Data Collection	Automatic Output	100%, Reference source for all tables
24	UNPAVED_MI	999.999	Unpaved mileage (to the nearest 0.001)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
25	RTE_LENGTH	999.999	Official Route Length	Contractor Post- processing	Automatic Output	100%, Reference source for all tables
2.6		****	Surface type (PAVED: AS (asphalt, includes composite), CO (concrete), BR (brick/pavers), CB			100%, Reference source for all
26	SURF_TYPE	XX	(cobblestone), OT (other))	Route ID Meeting	Survey Crew Input	tables (1) 100%, Reference source for all
27	UNPAVED	XXXX	Unpaved Route (Yes/No/Both)	Route ID Meeting	Automatic Output	tables
28	UNPAVED_CAT	XXX	Unpaved Road Category	Route ID Meeting	Automatic Output	Untested
29	CURB	(Text)	Parking Area with Curb around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
30	CURB_GUTTER	(Text)	Parking Area with Curb and Gutter around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
31	ADJ_ROUTE	9999XXX	Route number	Route ID Meeting	Automatic Output	100%, Reference source for all tables
32	USER_ACCESS	(Text)	Access Designation for Parking	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
33	PHOTO_NO	(Text)	Photo or Image	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables
34	PLOT_SIZE	(Text)	Unpaved Parking Area Size	Route ID Meeting	Automatic Output	100%, Reference source for all tables
35	SQ_FEET	999.999	Route Square Footage	Contractor Post- processing	Automatic Output	100%, Reference source for all tables
36	M_RATING	(Text)	Manual Rating	Route ID Meeting	Automatic Output	100%, Reference source for all tables

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

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

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

Database Name: ROUTEINFO.mdb Table Name: PARK\_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						100% Referenced to other
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
						100% Referenced to other
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	tables
						100% Referenced to other
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	tables
				Route ID Meeting and		100015
	DIGD DATE		Date that data was collected in the park	ARAN Data		100% Referenced to other
6	INSP_DATE	MM/DD/YYYY	(completion date).	Collection	FHWA Determination	tables
						100% Referenced to other
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	tables
						100% Referenced to other
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	tables
						100% Referenced to other
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	tables
1.0						100% Referenced to other
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	tables
1.1	T DOLLTE MILES	000 000	T . 1 D . 1 D 1 C .	DIDD		100% Referenced to other
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	tables
10	T ADAM DDIVEN	000 000	Tetal Deal ADANI Delega Miles	DID Dead areas and	A	100% Referenced to other
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	tables 100% Referenced to other
13	T ADAN I MILES	999.999	Total Park ARAN Lane Miles	DID Doct mecoscing	Automotic Output	tables
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Wiles	RIP Post-processing	Automatic Output	100% Referenced to other
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	tables
14	1_CONCESS_FAVED	777.777	Total Fark Concession Faved willes	Kir rost-processing	Automatic Output	100% Referenced to other
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	tables
13	1_CONCESS_UNIAVED	222.222	Total Lark Concession Onpaved Willes	Kii Tost-processing	Automatic Output	100% Referenced to other
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	tables
10	1_1111_1111000011	777.777	Total Park Parking Unpaved Square  Total Park Parking Unpaved Square	Tar 1 ost processing	Tratomane Output	100% Referenced to other
17	T_PRK_UNPAVEDSQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
1			Total Park Concession Parking Paved		- Surpur	100% Referenced to other
18	T_CPRK_PAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1.0			Total Park Concession Parking Unpaved			100% Referenced to other
19	T_CPRK_UNPAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables
20	T DARWING GOTT	000 000				100% Referenced to other
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	tables
	T DADWING AND TO	000 000	Total Park Parking Equivalent Lane			100% Referenced to other
21	T_PARKING_LMILES	999.999	Miles	RIP Post-processing	Automatic Output	tables
22	T MDD GOET	000 000	Total Park Manually Rated Road Square	DIDD		100% Referenced to other
22	T_MRR_SQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
22	T CMPP COET	000 000	Total Park Concession Manually Rated	DID D		100% Referenced to other
23	T_CMRR_SQFT	999.999	Road Square Feet	RIP Post-processing	Automatic Output	tables
2.4	T MDD ANGER	000 000	Total Park Manually Rated Road	DIDD		100% Referenced to other
24	T_MRR_LMILES	999.999	Equivalent Lane Miles	RIP Post-processing	Automatic Output	tables
2.5		000 000				100% Referenced to other
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	tables
20		000		DID De star de la constant de la con	A - to made of the	1000/ D. C. 17 /
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other

	EIELD	EODMAT		COLIDGE	WALIDATION	EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	tables
						tables
						100% Referenced to other
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	tables
4.0		000				100% Referenced to other
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	tables
12	T ELIVE CNT	999	Total Dada Fina Hardwart Count	DID Doot annouse in a	Automotic Outout	100% Referenced to other
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	tables 100% Referenced to other
44	T_OVERPASS_CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	tables
44	1_OVERFASS_CN1	777	Total Fark Overpass Count	Kir rost-processing	Automatic Output	100% Referenced to other
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	tables
15	T_C/IBEE_TE/(G	)))),))) (It)	Total Length Park Guard/Guide Rail	Terr Tost processing	Tutomatic Output	100% Referenced to other
46	T_GDRAIL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
		7777777 (=4)	Total Length Park Guard/Guide Wall			100% Referenced to other
47	T_GDWALL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
		` ′		1		100% Referenced to other
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	tables
l						100% Referenced to other
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	tables
	T LUCDOGG TING	0000 000 (6)		DIDD		100% Referenced to other
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	tables
53	T DAVIDITCH TING	0000 000 (ft)	Total Langth Dayle Dayled Ditches	DID Doct muccoccing	Automotic Output	100% Referenced to other
33	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	tables (2) 100% Referenced to other
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	tables
34	1_10KNO01_1LNO	7777.333 (11)	Total Longui Lark Turnouts	Territori-processing	Tutomatic Output	100% Referenced to other
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	tables
		22.22	O . Juni 1 min 1 Cit running	THE FOOD PROCESSING	Tatomane Output	100% Referenced to other
56	PARK RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	tables
	_	15.5		1 2 2 2 2 2 2 2 2	T	100% Referenced to other
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	tables
			Overall Park Alligator Cracking Index			100% Referenced to other
59	PARK_AC_INDEX	99.99	Rating	RIP Post-processing	Automatic Output	tables

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

# Business Practices for Route Numbering and Roadway Asset Identification

## **Introduction and Background:**

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

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

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

### **Issue Statement:**

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

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

#### **Proposed Actions:**

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

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

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

#### **Discussion:**

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

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

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

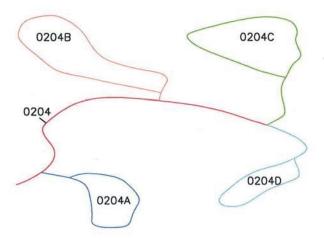


Figure 1: Campground with five routes and five assets

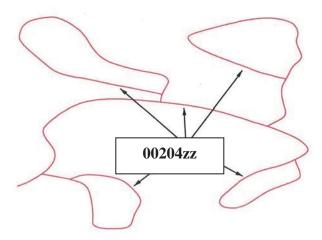


Figure 2: Campground with all loops combined into one route and one asset. This has eliminated four assets.

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

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

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

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

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

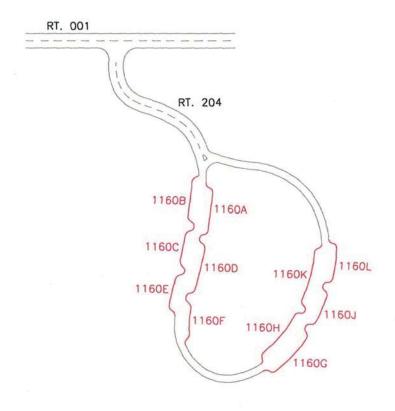


Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets (one 1100 asset and 11 1300 assets).

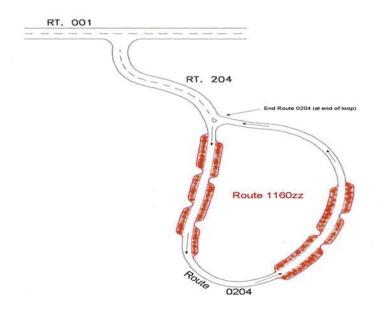


Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

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

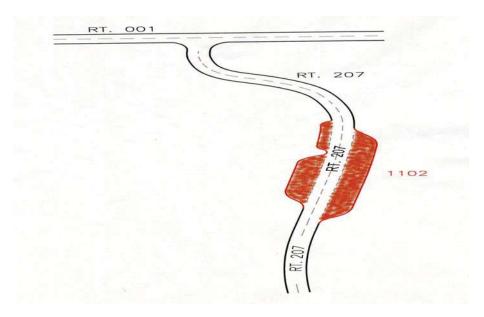


Figure 5: Parking with access route 207 running through and continuing beyond parking 1102. This access route cannot be considered a part of the parking area and two routes and two assets continue to exist.

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

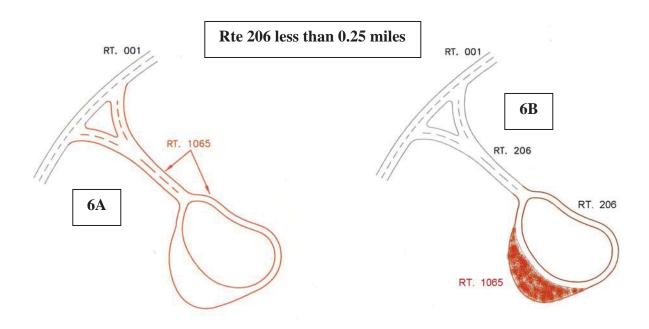


Figure 6: Since the access route is less than .25 miles in length and the only use of the access is to the parking, one route for both the access and the parking area can be established.

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

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

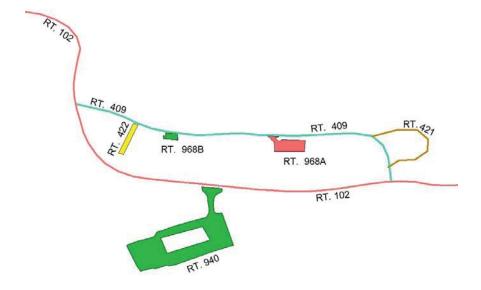


Figure 7 – Current Housing area access configuration. Route 409 is less than 0.25 miles long.

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

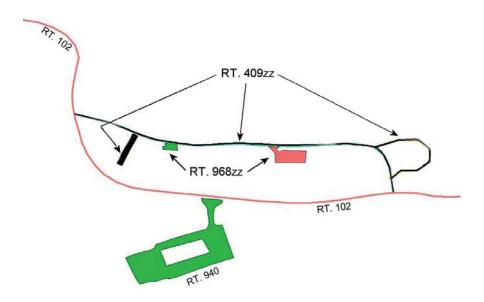


Figure 8 – Combined housing area access configuration – Parking and road assets combined to eliminate 3 assets.