



The Road Inventory of Chickamauga & Chattanooga National Military Park CHCH – 5220



national park service



Road Inventory Program

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



Chickamauga and Chattanooga National in Georgia

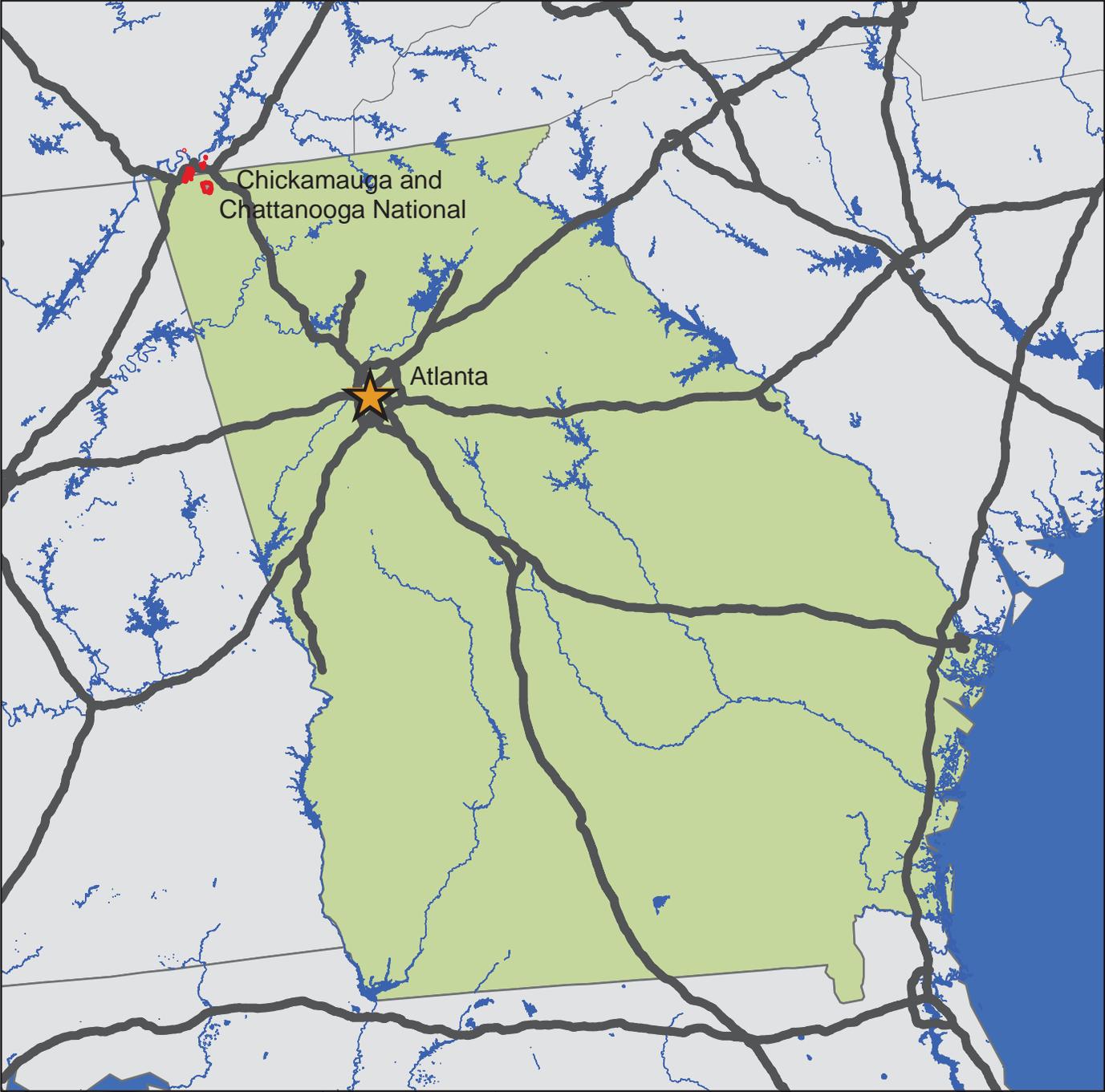




TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1. INTRODUCTION	1 - 1
2. PARK SUMMARY INFORMATION	
National Park Summaries	2 - 1
Cost to Improve Based on Historical and Estimated Data	2 - 2
Paved Route Miles and Percentages by Functional Class and PCR	2 - 3
3. PARK SUMMARY MAPS	
Route Location Key Map	3 - 1
Route Condition Key Map – PCR Mile by Mile	3 - 4
4. PARK ROUTE INVENTORY	
Route Identification Lists (Numeric and Alphabetic)	4 - 1
5. PAVED ROUTE CONDITION RATING SHEETS	5 - 1
6. MANUALLY RATED PAVED ROUTE CONDITION RATING SHEETS	6 - 1
7. PARKING LOT CONDITION RATING SHEETS	7 - 1
Paved parking Areas	
8. PARKWIDE / ROUTE MAINTENANCE FEATURES SUMMARY	8 - 1
9. PARK ROUTE MAINTENANCE FEATURES ROAD LOG	9 - 1
10. APPENDIX	
A. Glossary of Terms and Abbreviations	10 - 1
B. Description of Rating System	10 - 3
C. Digital Image Information	10 - 7
D. Metadata	10 - 8

INTRODUCTION

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

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

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

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

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

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

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

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

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

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

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

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Chickamauga & Chattanooga National Military Park Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	24.41	3/10/2002
Unpaved Estimated Route Miles	4.82	3/10/2002
Paved ARAN and Unpaved Route Miles	29.23	
Paved ARAN Driven Lane Miles	43.47	3/10/2002
Paved MRR Lane Miles	2.55	3/10/2002
Parking Lot Lane Miles	3.21	3/10/2002
Total Paved Lane Miles	49.23	

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

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

Chickamauga & Chattanooga National Military Park Summaries

Cost to Improve to "Excellent" Condition

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

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

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	1.20	\$36,000
Good	3.73	\$410,300
Fair	11.20	\$6,272,000
Poor	8.28	\$12,751,200
Totals	24.41	\$19,469,500

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

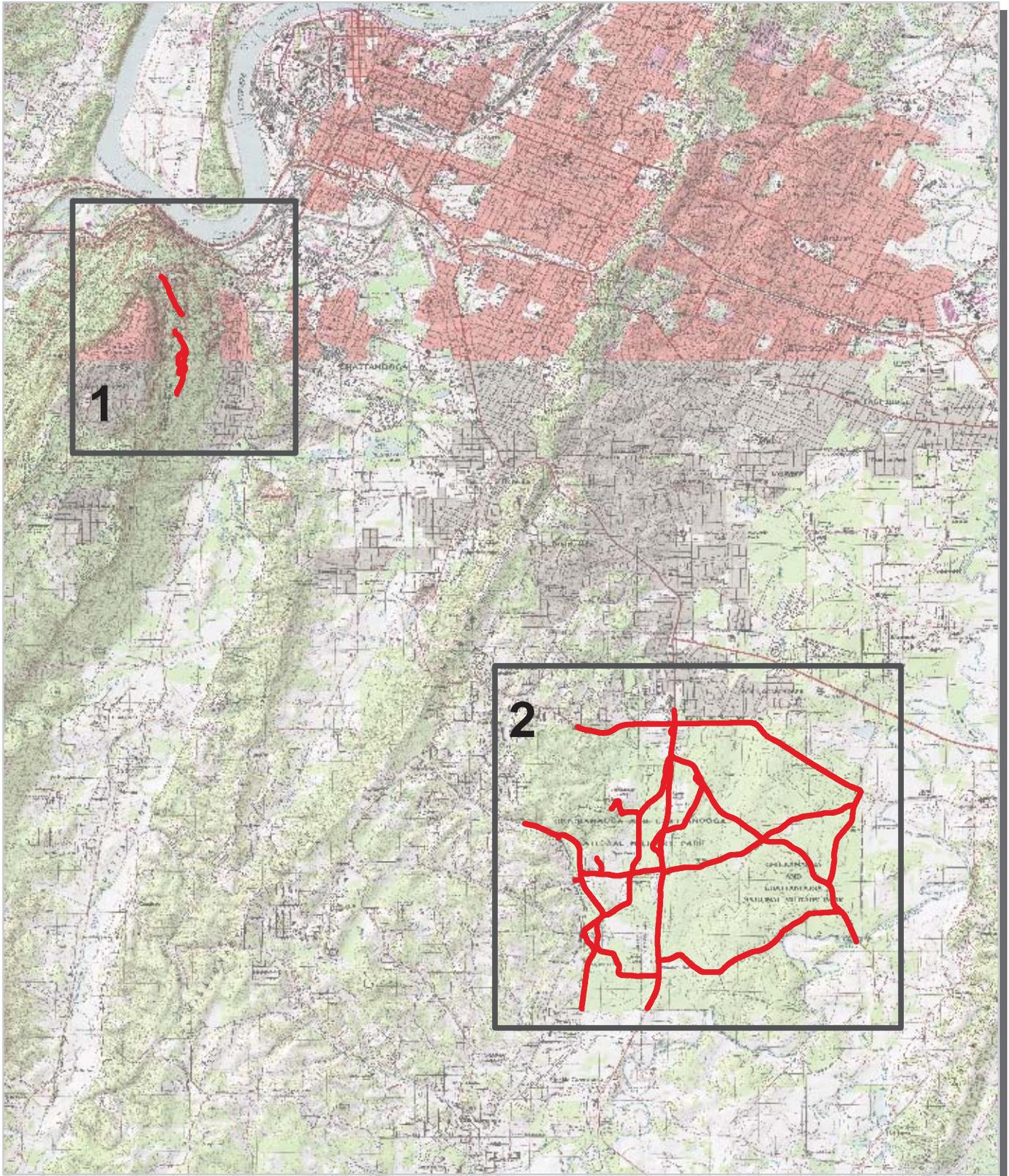
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Chickamauga & Chattanooga National Military Park Summaries

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

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	1.29	5.28%	8.52	34.90%	3.07	12.58%	1.07	4.38%	13.95
2	6.35	26.01%	2.56	10.49%	0.66	2.70%	0.13	0.53%	9.70
3	0.28	1.15%	0.10	0.41%					0.38
4									
5									
6	0.23	0.94%	0.02	0.08%					0.25
7									
8	0.13	0.53%							0.13
Totals	8.28	33.92%	11.20	45.88%	3.73	15.28%	1.20	4.92%	24.41

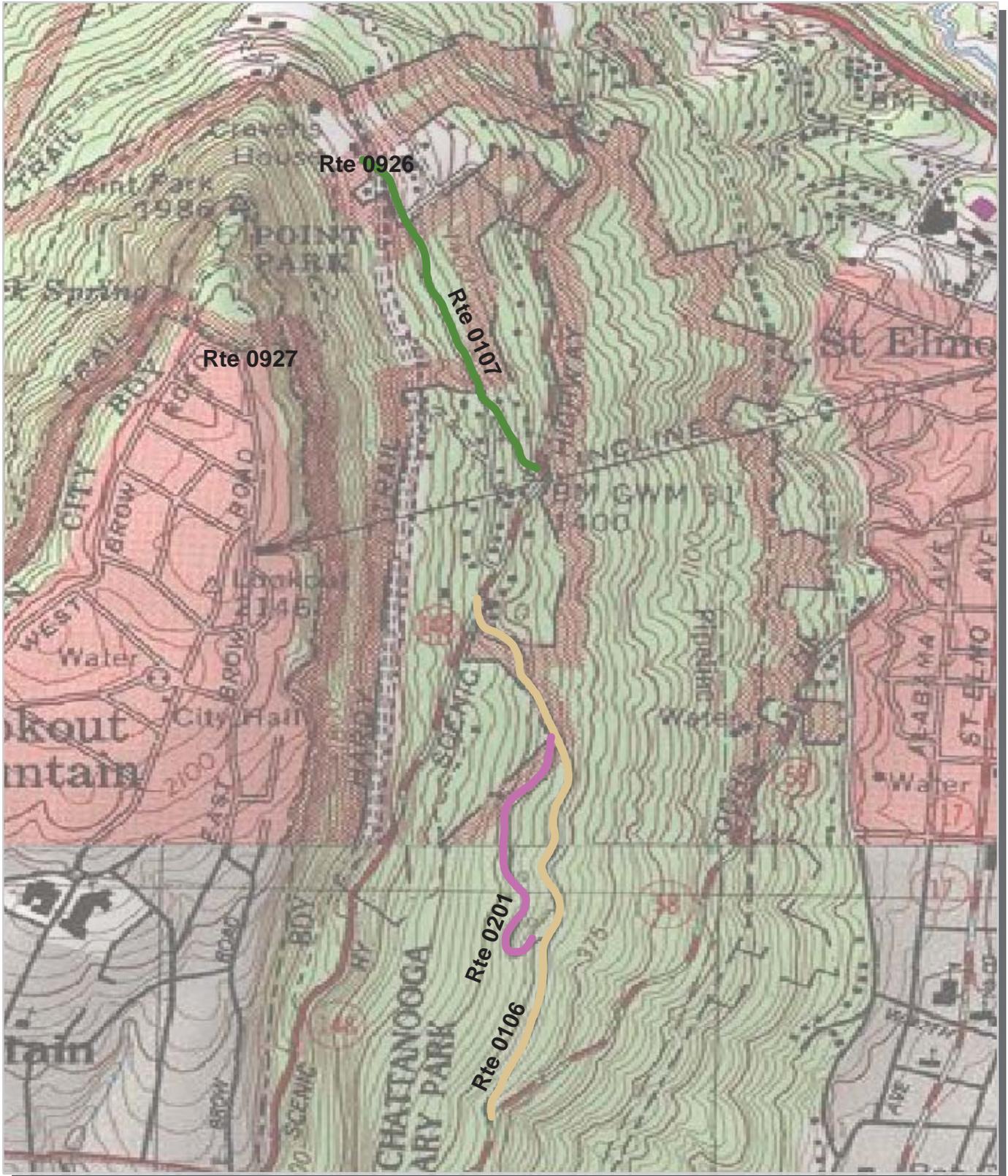
Chickamauga & Chattanooga National Military Park Route Location Key Map



 Park Owned Routes



Chickamauga & Chattanooga National Military Park Route Location Map Area Map 1



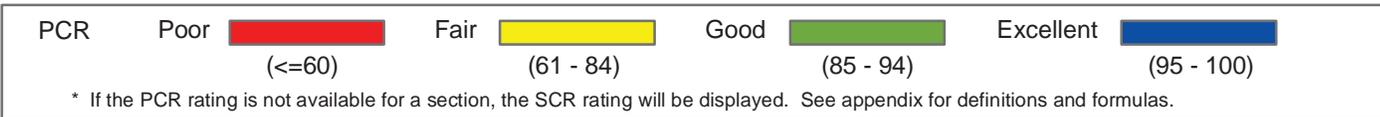
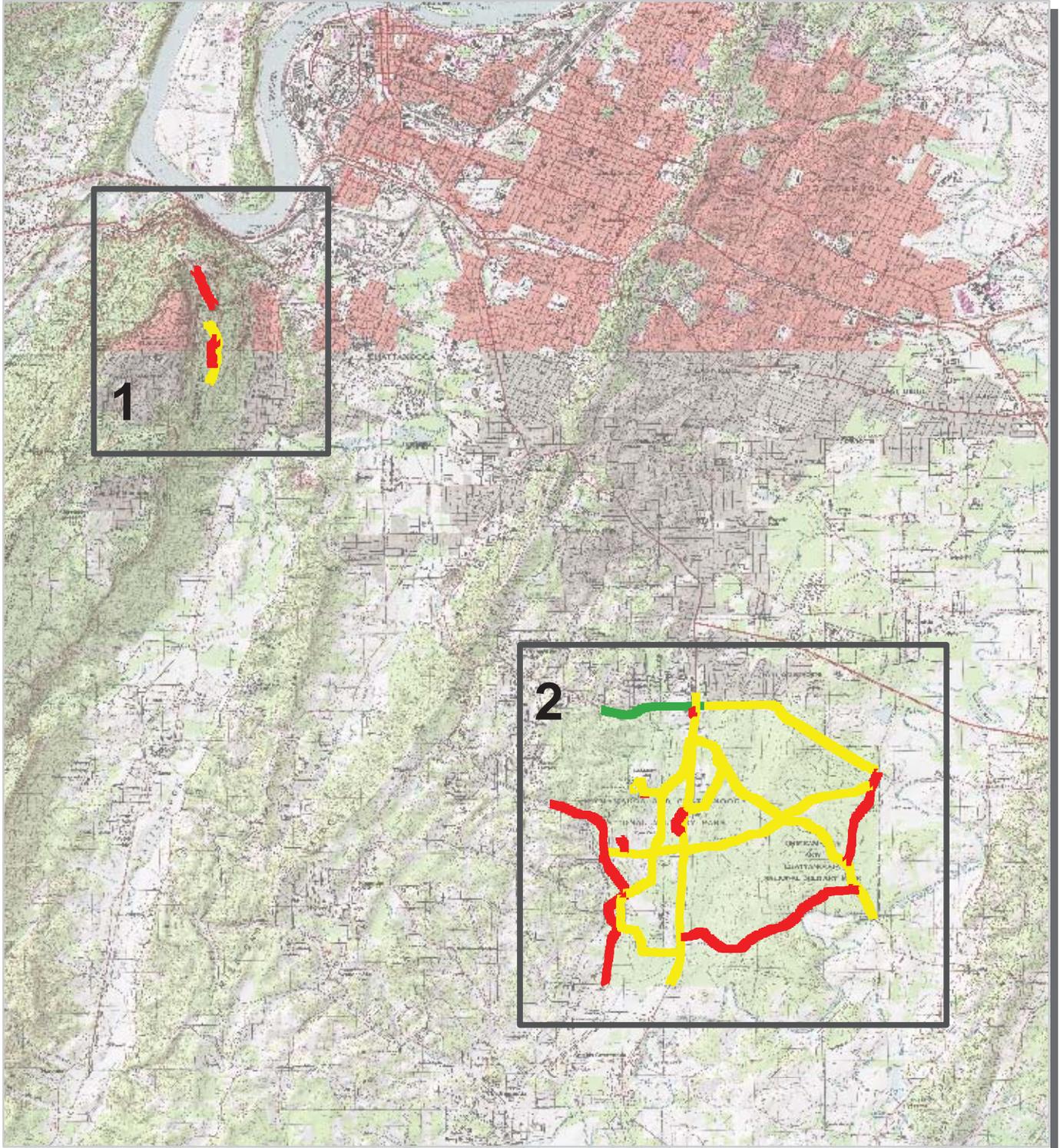
Unique colors used to differentiate routes



Chickamauga & Chattanooga National Military Park

Route Condition Key Map

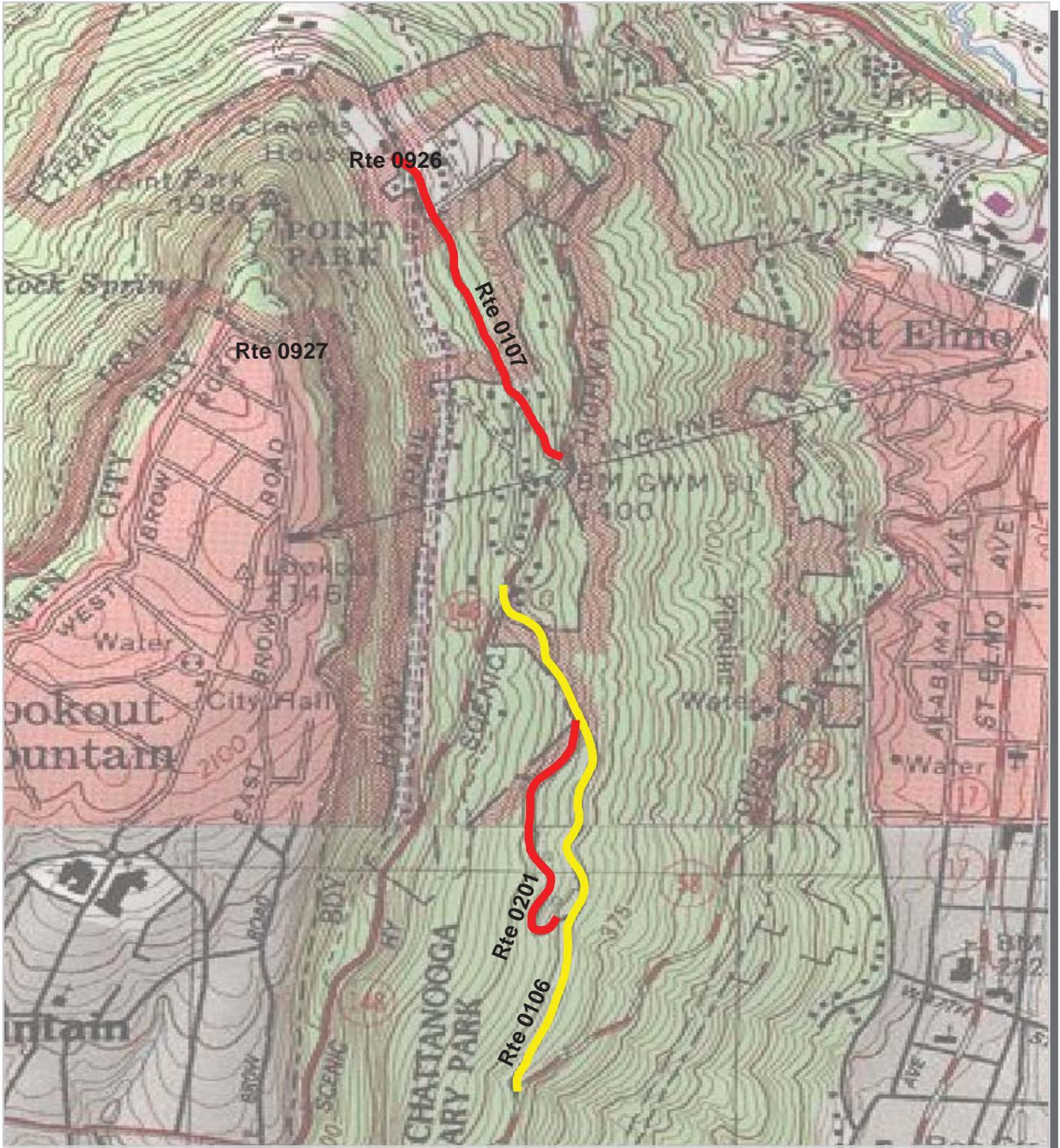
PCR - Mile by Mile



Chickamauga & Chattanooga National Military Park

Route Condition Area Map 1

PCR - Mile by Mile

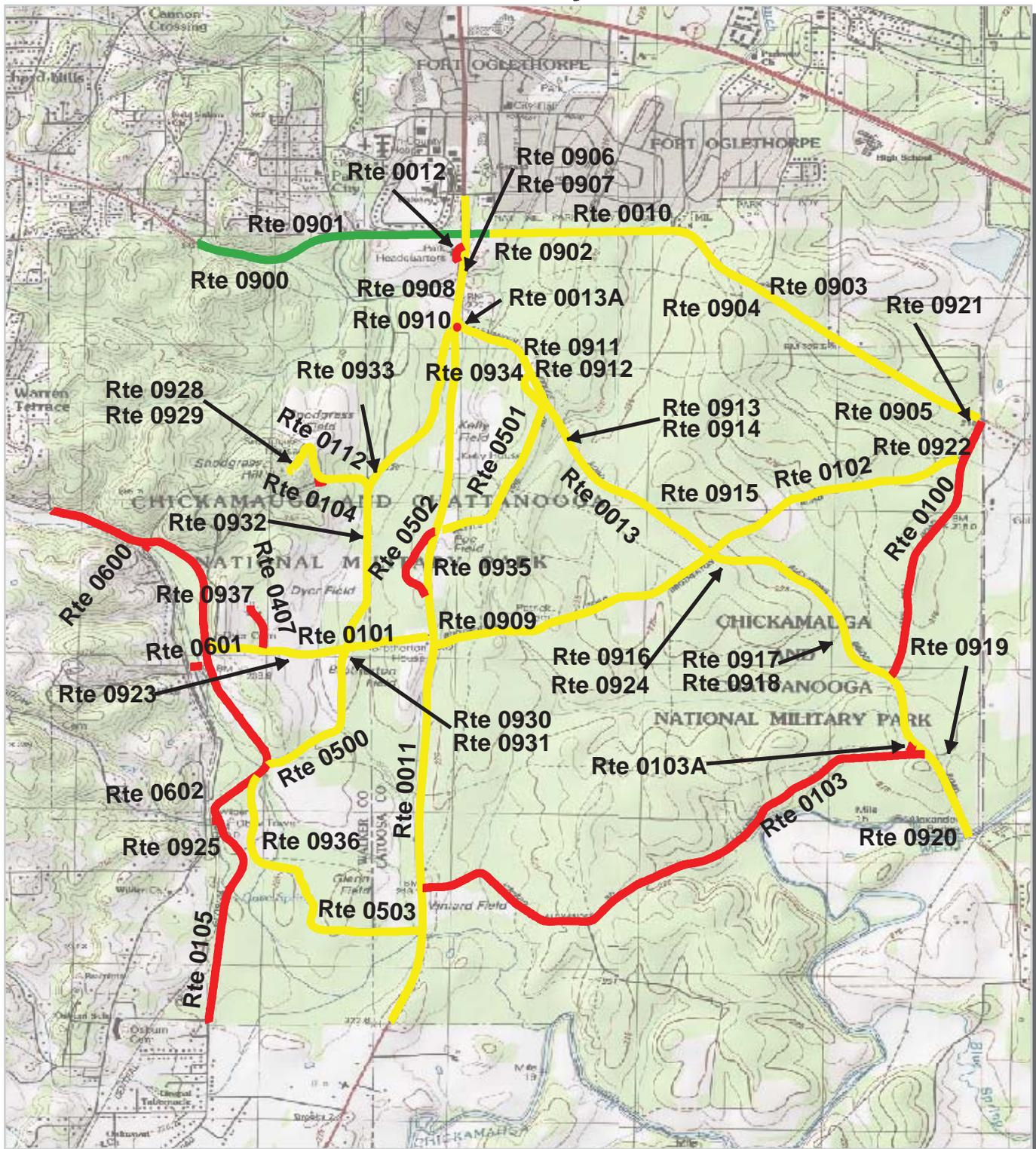


PCR	Poor	Fair	Good	Excellent
	(≤60)	(61 - 84)	(85 - 94)	(95 - 100)

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



Chickamauga & Chattanooga National Military Park Route Condition Area Map 2 PCR - Mile by Mile



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

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



NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
Red text denotes approx. mileage

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

CHCH

Chickamauga & Chattanooga National Military Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0010	61664	McFarland Reeds Road	From Park Boundary	To Park Boundary / Begin Route 0100	2.90	0.00	2.90	1	2	0	AS
0011	61665	LaFayette Road	From Harker Road	To South Park Boundary	3.36	0.00	3.36	1	2	0	AS
0012	61684	Visitor Center Access	From Route 0011 at MP 0.2	To Route 0011 at MP 0.3	0.10	0.00	0.10	1	1	0	AS
0013	61669	Alexander Bridge Road	From Route 0011 at MP 0.5	To Park Boundary	2.88	0.00	2.88	1	2	0	AS
0013A		Alexander Bridge Road Spur	From Route 0011	To Route 0013	0.02	0.00	0.02	1	1	0	AS
0100	61667	Jays Mill Road	From End of Route 0010 /Park Boundary	To Route 0013	1.09	0.00	1.09	2	2	0	AS
0101	61674	Dyer Mill Road	From Route 0105	To Route 0011	0.76	0.00	0.76	2	2	0	AS
0102	61670	Brotherton Road	From Route 0011 at MP 1.8	To Route 0100	1.96	0.00	1.96	2	2	0	AS
0103	66860	Alexander Vineyard Road	From Route 0011 at MP 2.8	To Route 0013 at MP 2.5	2.01	0.00	2.01	2	2	0	AS
0103A		Alexander Vineyard Road Spur	From Route 0013	To Route 0103	0.05	0.00	0.05	2	1	0	AS
0104	61683	Vittetoe Road	From Route 0112	To Route 0105	0.05	0.60	0.65	6	1	0	AS
0105	61672	Chick Vittetoe Road	From Northwest Park Boundary	To South Park Boundary	2.56	0.00	2.56	2	2	0	AS
0106	61743	Sanders Road	From TN State Route 58	North to TN State Route 148	0.77	0.00	0.77	2	2	0	AS
0107	61734	Willmingham Road	From TN State Route 148	To House	0.50	0.00	0.50	2	2	0	AS
0108	61739	Millitary Street	From Route 0107	To TN State Route 148	0.31	0.00	0.31	2	2	18,128	AS
0109	61741	Caroline Street	From Route 0108	To Park Boundary	0.17	0.00	0.17	2	2	10,342	AS
0110	81404	Crest Road	Bragg Reservation access and parking		0.09	0.00	0.09	2	2	5,648	CO
0111	81405	Sherman Reservation	From Lightfoot Road	To End	0.50	0.00	0.50	6	2	29,066	OC
0112	61675	Snodgrass Road	From Route 0500	To End of Loop	0.45	0.00	0.45	1	2	0	AS
0200		Picnic Area Access	From Route 0010	To Picnic Area	0.19	0.00	0.19	3	2	11,335	AS
0201	61744	Sanders Picnic Road	From Route 0106 at MP 0.55	To Route 0106 at MP 0.26	0.38	0.00	0.38	3	1	0	AS
0202	61939	Signal Point Road	Signal Pt. Access and Parking from Park Boundary	To End of Loop	0.23	0.00	0.23	3	1	12,267	OC
0400	61691	Mullis Vittetoe Road	From Route 0010	To Park Boundary	0.00	0.15	0.15	6	1	0	GR
0401	61678	Mullis Road	From Route 0010	To Route 0011	0.43	0.77	1.20	6	1	45,015	OC
0402	61679	Residential Access Road	From Route 0010	To Park Boundary	0.00	0.20	0.20	6	1	0	GR
0403	61685	Quarry Road	From Route 0011	To Quarry	0.00	0.25	0.25	6	1	0	GR
0404	61676	Snodgrass Access Road	From Route 0400	To Route 0112	0.00	0.25	0.25	6	1	0	GR
0405	61686	Savannah Road	From Route 0401	To Route 0500	0.00	0.66	0.66	6	1	0	GR
0406	61690	South Post Road	From Route 0405	To Route 0405	0.00	0.25	0.25	6	1	0	GR
0407	61687	Savannah Service Road	From Route 0937	To Route 0101	0.20	0.10	0.30	6	2	0	AS
0408	61689	South Carolina Monument Road	From Route 0104	To Monument	0.00	0.13	0.13	6	1	0	GR
0409	61681	Dalton Ford Road	From Route 0103	To End	0.00	1.04	1.04	6	1	0	GR
0410	61680	Thedford Ford Road	From Route 0409	To Ford	0.00	0.42	0.42	6	1	0	GR

NPS/RIP Route ID Report

(Numerical By Route #)

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CHCH

Chickamauga & Chattanooga National Military Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0411	61732	Point Park Access Road	From Visitor Center Parking	To End of Loop	0.27	0.00	0.27	6	1	16,061	AS
0500	61673	Glenn Kelley Road	From Route 0105 at MP 1.4	To Route 0011 (Circulatory Tour)	1.99	0.00	1.99	1	1	0	AS
0501	61666	Battleline Road	From Route 0013 at MP 0.35	To Route 0011 (Circulatory Tour)	0.82	0.00	0.82	1	1	0	AS
0502	61682	Poe Road	From Route 0011 at MP 1.35	To Route 0011 MP 1.62 (Circulatory Tour)	0.34	0.00	0.34	1	1	0	AS
0503	61671	Glen Vineyard Road	From Route 0011 at MP 2.95	To Route 0105 (Circulatory Tour)	1.09	0.00	1.09	1	1	0	AS
0600		Dry Valley Road	From Route 0105 at MP 0.35 on Right	To Railroad	0.04	0.00	0.04	8	2	0	OC
0601		Lytle Station Road	From Route 0105 at MP 0.95 on Right	To Railroad	0.06	0.00	0.06	8	2	0	AS
0602		Tower Road	From Route 0105 at MP 1.7 on Right	To Railroad	0.03	0.00	0.03	8	2	0	AS
0900	75216	Parking Area	From Route 0010 at MP 0.3	To Route 0400 intersection	0.00	0.00	0.00	9		3,330	AS
0901	75223	Parking Area	From Route 0010 at MP 0.5	To Route 0401 interestion	0.00	0.00	0.00	9		7,449	AS
0902	75225	Tennessee Monument Parking Area	Tennessee Artillery Monument parking off Route 0010 on Right		0.00	0.00	0.00	9		16,446	AS
0903	75226	Parking Area	Parking Area off Route 0010 on Left		0.00	0.00	0.00	9		2,645	AS
0904	75228	Brannans Division Monument Parking Area	Parking Area off Route 0010 on Right		0.00	0.00	0.00	9		1,819	AS
0905	75232	Illinois Monument Parking Area	Parking Area off Route 0010 on Right		0.00	0.00	0.00	9		1,225	AS
0906	75234	Visitor Center Parking	From Route 0012	To Route 0907	0.00	0.00	0.00	9		15,777	AS
0907	75237	Visitor Center Overflow Parking	From Route 0012	To Route 0906	0.00	0.00	0.00	9		31,123	AS
0908	75240	Turnout	Intersection of Route 0011 and Route 0401		0.00	0.00	0.00	9		1,678	AS
0909	75243	Brotherton Cabin Parking Area	Adjacent To Route 0011		0.00	0.00	0.00	9		823	AS
0910	75245	Kentucky Monument Parking Area	Adjacent To Route 0013		0.00	0.00	0.00	9		1,518	OC
0911	75249	Georgia Monument Parking Area	Adjacent To Route 0013 on Left		0.00	0.00	0.00	9		781	OC
0912	75251	Helm/Colquitt Monuments Parking	Adjacent To Route 0013 on Left		0.00	0.00	0.00	9		453	OC
0913	75252	Parking Area	Adjacent To Route 0013 on Left		0.00	0.00	0.00	9		705	OC
0914	75255	Semple's Alabama Battery Parking Area	Adjacent To Route 0013 on Right		0.00	0.00	0.00	9		663	OC
0915	75259	Cost of Chickamauga Interpretive Trail Parking	Adjacent To Route 0013 on Right		0.00	0.00	0.00	9		715	OC
0916	75262	Smith Monument Parking	Adjacent To Route 0013 on Right		0.00	0.00	0.00	9		707	OC
0917	75264	Trail Parking	Adjacent To Route 0013 on Left		0.00	0.00	0.00	9		9,107	OC
0918	75266	Trail Parking	Adjacent To Route 0013 on Right		0.00	0.00	0.00	9		7,716	OC

NPS/RIP Route ID Report

(Numerical By Route #)

Page 3 of 4

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Red =

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Purple =

CHCH

Chickamauga & Chattanooga National Military Park

Rte. #	FMSS Asset #	Route Name	Route Description From To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0919	75267	Parking Area	Adjacent To Route 0013 across from Viniard Alexander Road	0.00	0.00	0.00	9		487	OC
0920	75271	Alexander Bridge Parking	At Alexander Bridge on Route 0013	0.00	0.00	0.00	9		1,803	OC
0921	75273	Parking Area at Confederate's Creek Crossing	Adjacent To Route 0100 on Right	0.00	0.00	0.00	9		438	OC
0922	75277	Jay's Mill Parking Area	Adjacent To Route 0100 on Right	0.00	0.00	0.00	9		841	OC
0923	75280	Dyer House Parking Area	Adjacent To Route 0101 on Left	0.00	0.00	0.00	9		699	OC
0924	75283	Picnic Area	Adjacent To Route 0102 on Right	0.00	0.00	0.00	9		7,910	OC
0925	75286	Wilder Brigade Monument Parking	Adjacent To Route 0105 on Right and Left	0.00	0.00	0.00	9		6,095	OC
0926	75289	Cravens House Parking	Adjacent To Route 0107 at House	0.00	0.00	0.00	9		19,836	AS
0927	75292	Point Park Visitor Center Parking	Adjacent To Point Park Visitor Center	0.00	0.00	0.00	9		11,568	AS
0928	75295	Snodgrass Cabin Parking	Adjacent To Route 0112 at Snodgrass Cabin	0.00	0.00	0.00	9		5,649	OC
0929	75298	Snodgrass Hill Parking	Adjacent To Route 0112 at Tour Stop 8, Snodgrass Hill	0.00	0.00	0.00	9		3,191	OC
0930	75300	Retreat of the Union Right Parking	Adjacent To Route 0500 at Tour Stop 7	0.00	0.00	0.00	9		1,502	OC
0931	75301	Parking Area	Adjacent To Route 0500 at intersection of Glenn-Kelly and Dyer Road	0.00	0.00	0.00	9		1,874	OC
0932	75303	South Carolina Monument Parking	Adjacent To Route 0500 at South Carolina Monument	0.00	0.00	0.00	9		1,000	AS
0933	75305	South Post Parking	Adjacent To Route 0500 and Route 0405	0.00	0.00	0.00	9		826	AS
0934	75308	Tour Stop 2 Parking	Adjacent To Route 0501 at the Battle Line Monument, Tour Stop 2	0.00	0.00	0.00	9		639	OC
0935	75310	Tour Stop 3 Parking	Adjacent To Route 0502 at Mix up in Union Command Monument, Tour Stop 3	0.00	0.00	0.00	9		777	OC
0936	75313	Tour stop 6 Parking	Adjacent To Route 0503 at Wilder Brigade Monument, Tour Stop 6	0.00	0.00	0.00	9		11,501	OC
0937	75318	Maintenance Yard	Adjacent To Route 0407	0.00	0.00	0.00	9		1,999	OC
0938	75321	Delong Reservation	Delong Reservaton access and parking	0.00	0.00	0.00	9		3,279	CO
Totals				26.60	4.82	31.42			334,457	

NPS/RIP Route ID Report

(Numerical By Route #)

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

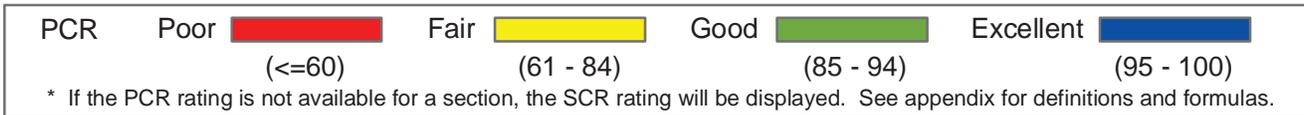
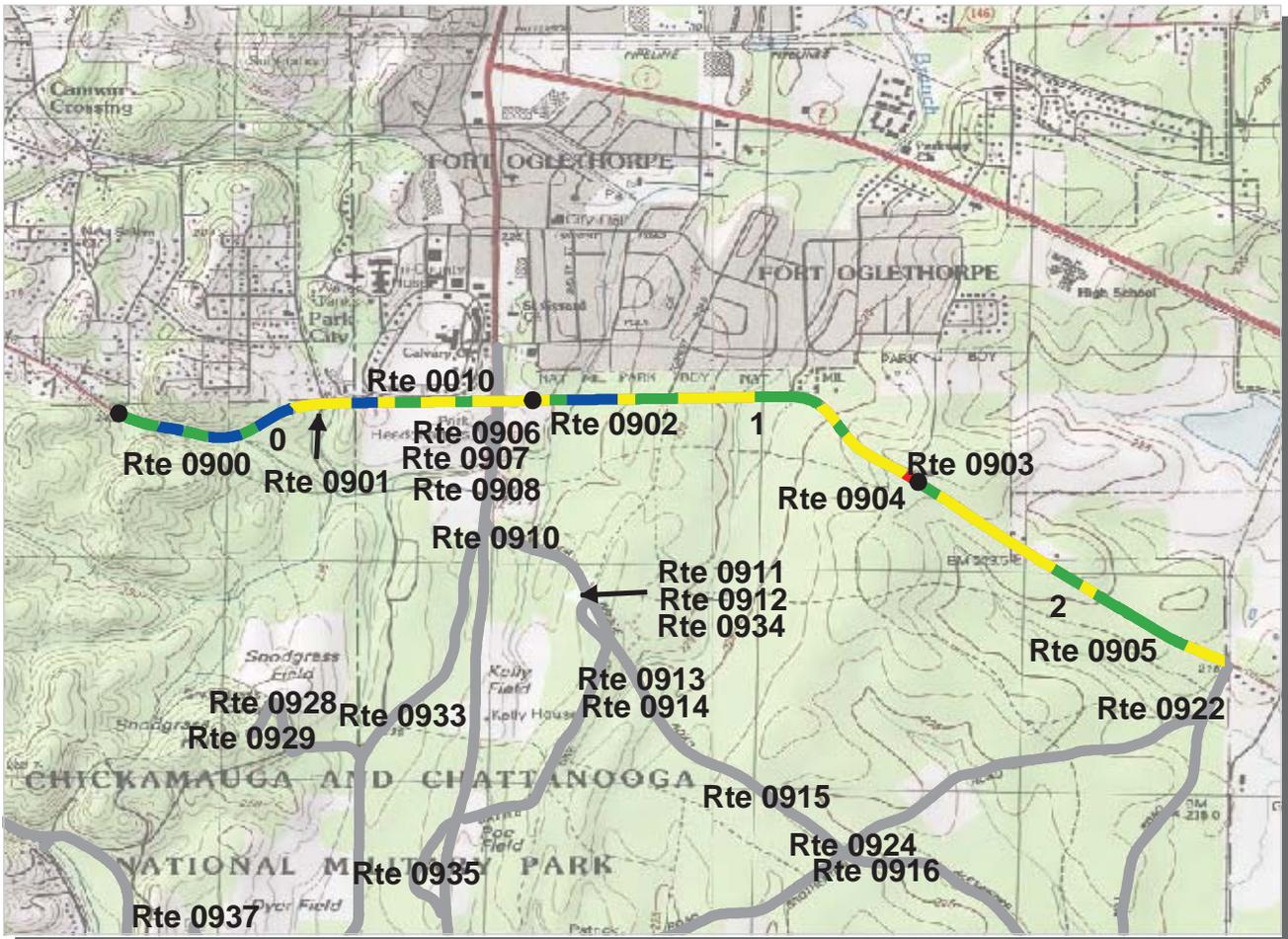
Surface Type Abbreviations:

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

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

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

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



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0010 Mcfarland Reeds Road

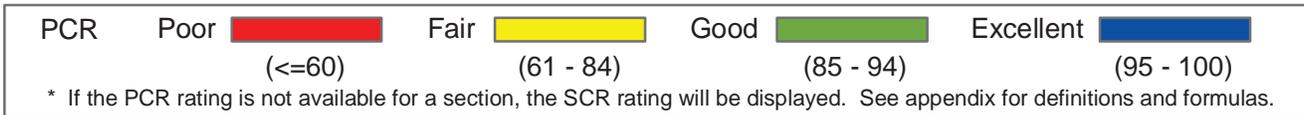
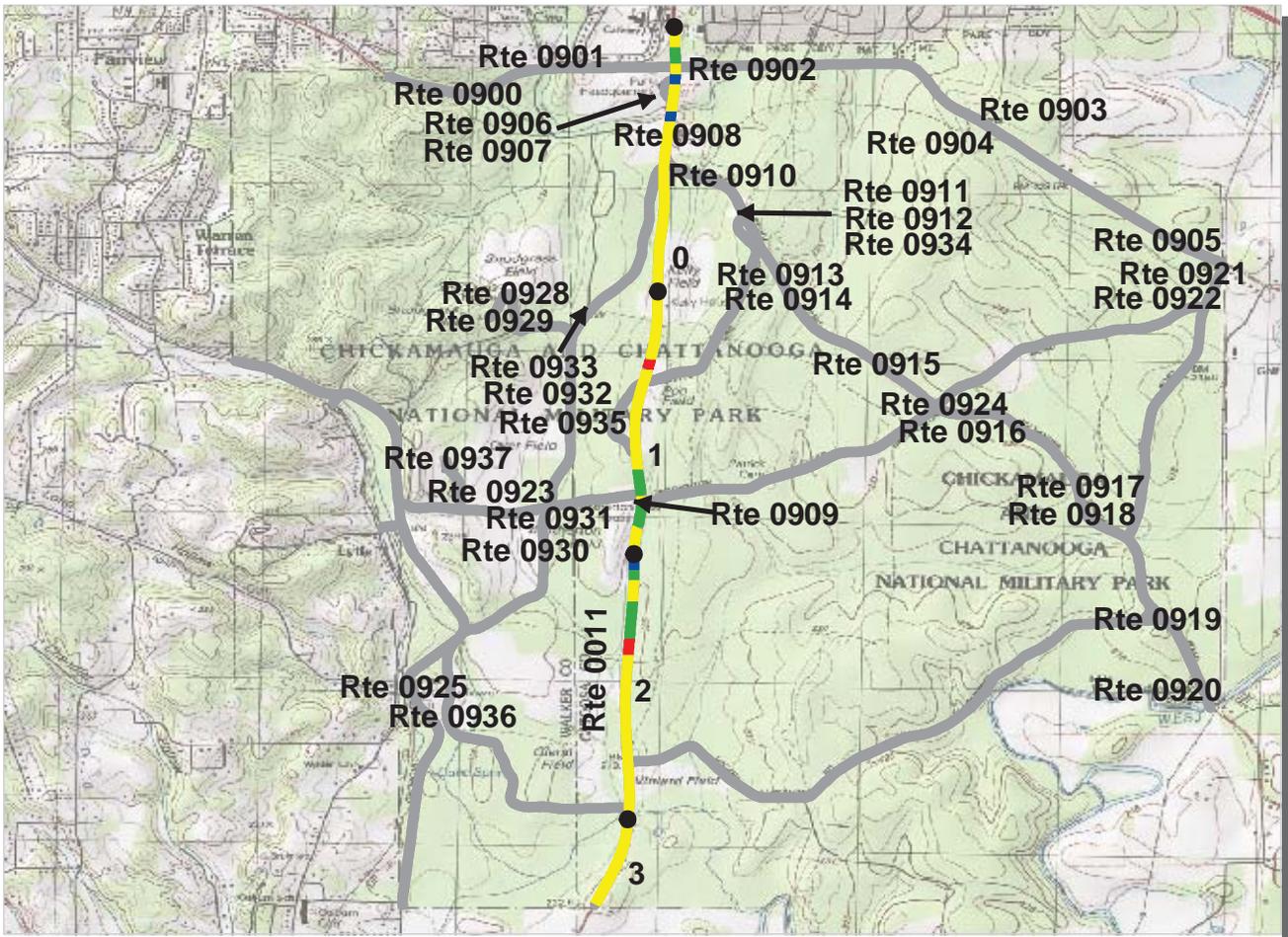
TOTAL LENGTH: 2.90 Miles

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.90		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	24	22	20		
Lane Width (ft)	12	12	10		
Shoulder Width (ft)	0	0	0		
Roadway Condition Information					
PCR (Pavement Condition Rating)	86	80	80		
RCI (Roughness Condition Index)	98	99	98		
SCR (Surface Condition Rating)	81	68	68		
Alligator Cracking Index	100	99	100		
Rutting Index	83	84	85		
Patching Index	100	100	100		
Transverse Cracking Index	98	85	82		
Longitudinal Cracking Index	99	99	99		
Shoulder Condition Rating	N/A	N/A	N/A		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0010 Mcfarland Reeds Road

* NC designates data not collected NA designates not applicable

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



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0011 Lafayette Road

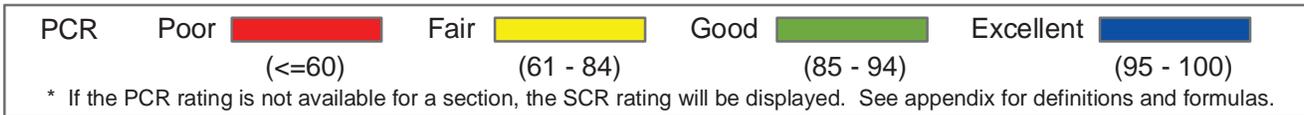
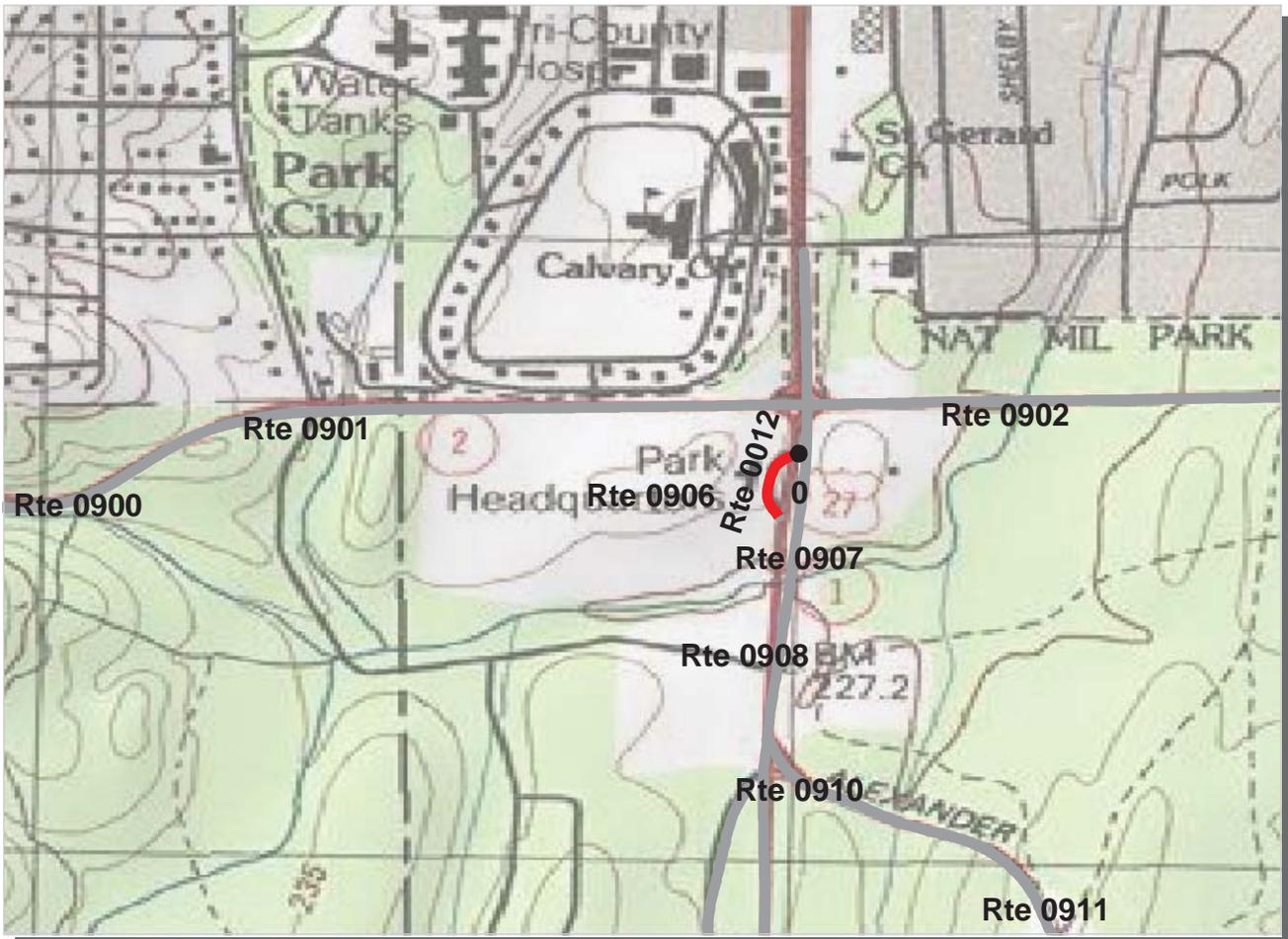
TOTAL LENGTH: 3.36 Miles

Section Number	0	1	2	3	
Section Length (mi)	1.00	1.00	1.00	0.36	
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	
Paved Width (ft)	26	24	24	25	
Lane Width (ft)	11	11	12	12	
Shoulder Width (ft)	0	0	0	0	
Roadway Condition Information					
PCR (Pavement Condition Rating)	81	76	81	78	
RCI (Roughness Condition Index)	99	100	100	100	
SCR (Surface Condition Rating)	70	66	71	66	
Alligator Cracking Index	100	100	100	100	
Rutting Index	72	68	72	68	
Patching Index	100	100	100	100	
Transverse Cracking Index	98	98	99	98	
Longitudinal Cracking Index	99	99	100	99	
Shoulder Condition Rating	N/A	N/A	N/A	N/A	
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	

ROUTE: 0011 Lafayette Road

* NC designates data not collected NA designates not applicable

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



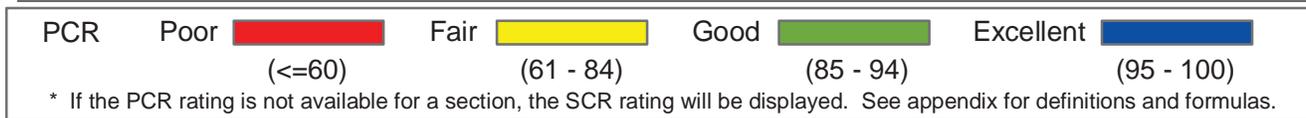
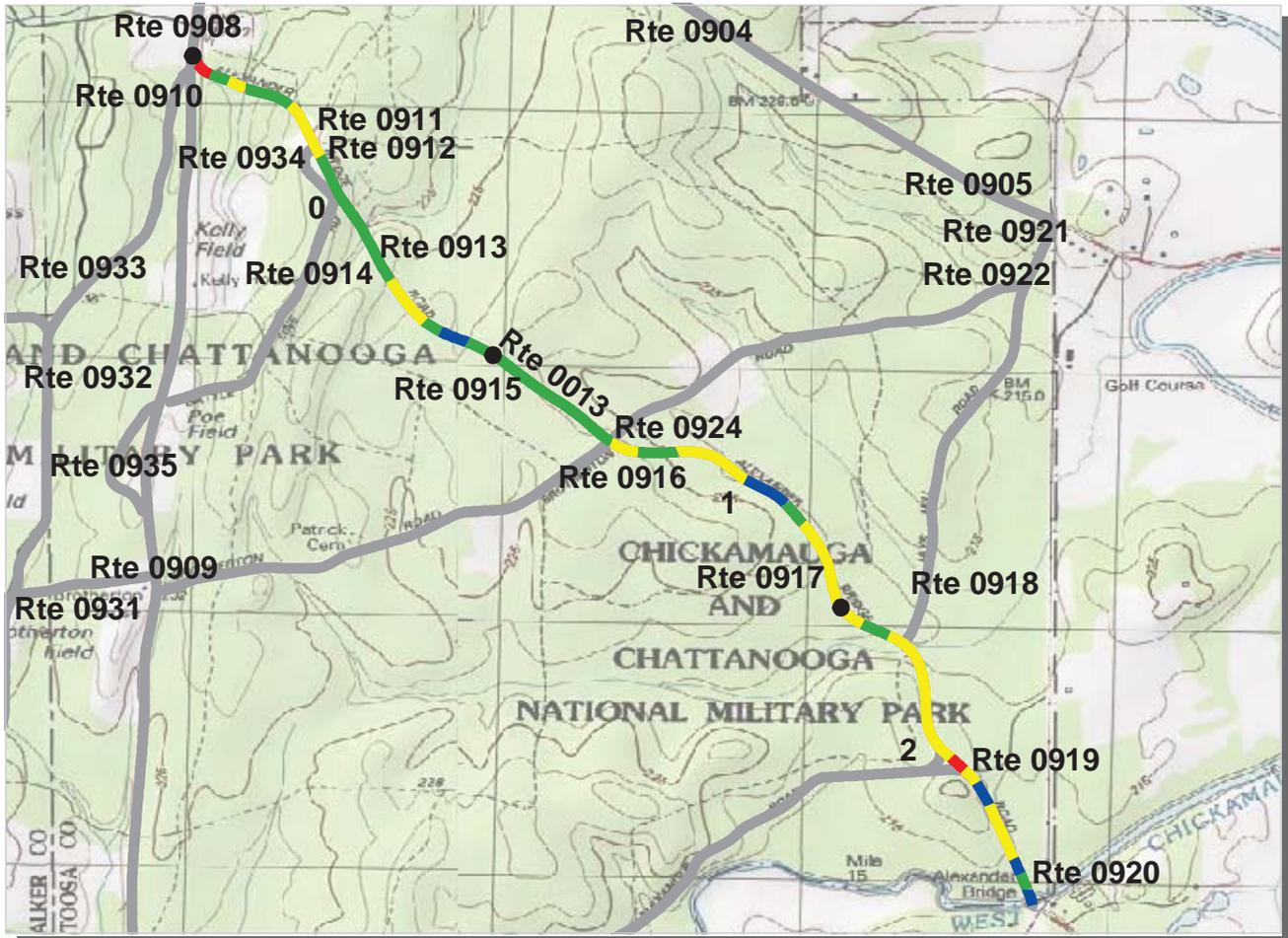
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0012 Visitor Center Access **TOTAL LENGTH: 0.10 Miles**

Section Number	0				
Section Length (mi)	0.10				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	20				
Lane Width (ft)	20				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	53				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	53				
Alligator Cracking Index	100				
Rutting Index	68				
Patching Index	100				
Transverse Cracking Index	90				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0012 Visitor Center Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

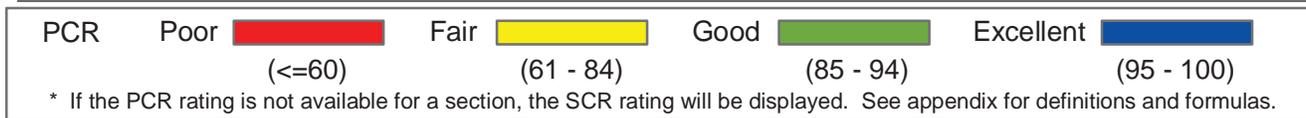
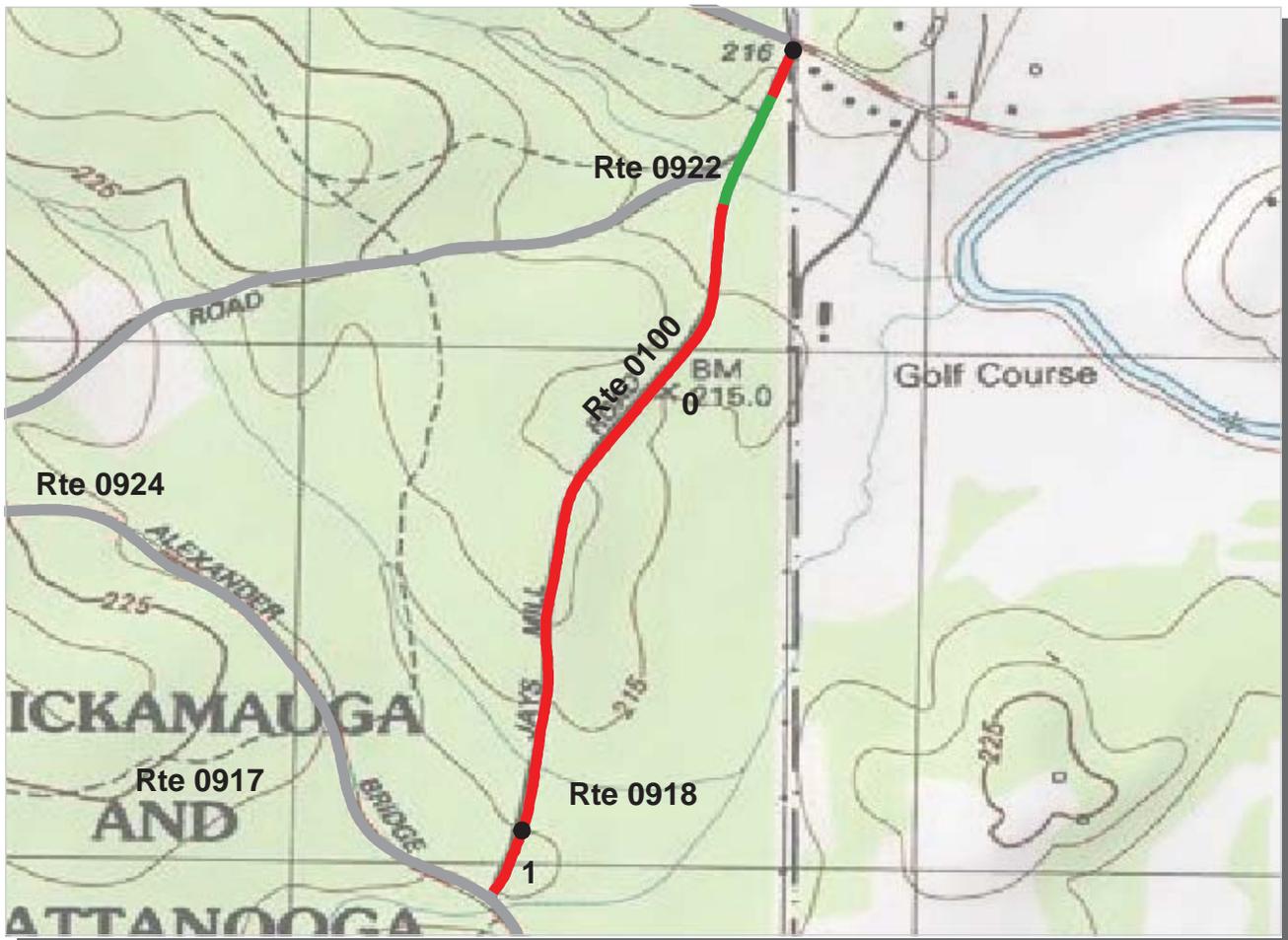
ROUTE: 0013 Alexander Bridge Road

TOTAL LENGTH: 2.88 Miles

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.88		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	20	20	19		
Lane Width (ft)	11	11	10		
Shoulder Width (ft)	0	0	0		
Roadway Condition Information					
PCR (Pavement Condition Rating)	84	83	82		
RCI (Roughness Condition Index)	98	98	96		
SCR (Surface Condition Rating)	76	74	74		
Alligator Cracking Index	98	99	98		
Rutting Index	80	78	81		
Patching Index	100	100	100		
Transverse Cracking Index	99	99	99		
Longitudinal Cracking Index	97	95	94		
Shoulder Condition Rating	N/A	N/A	N/A		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0013 Alexander Bridge Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

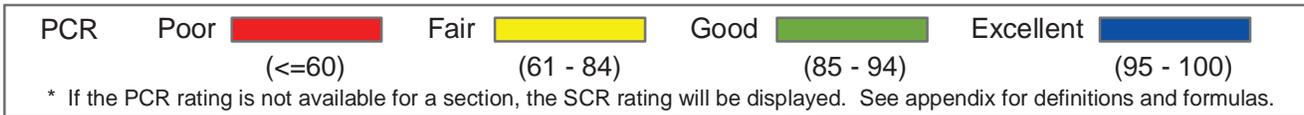
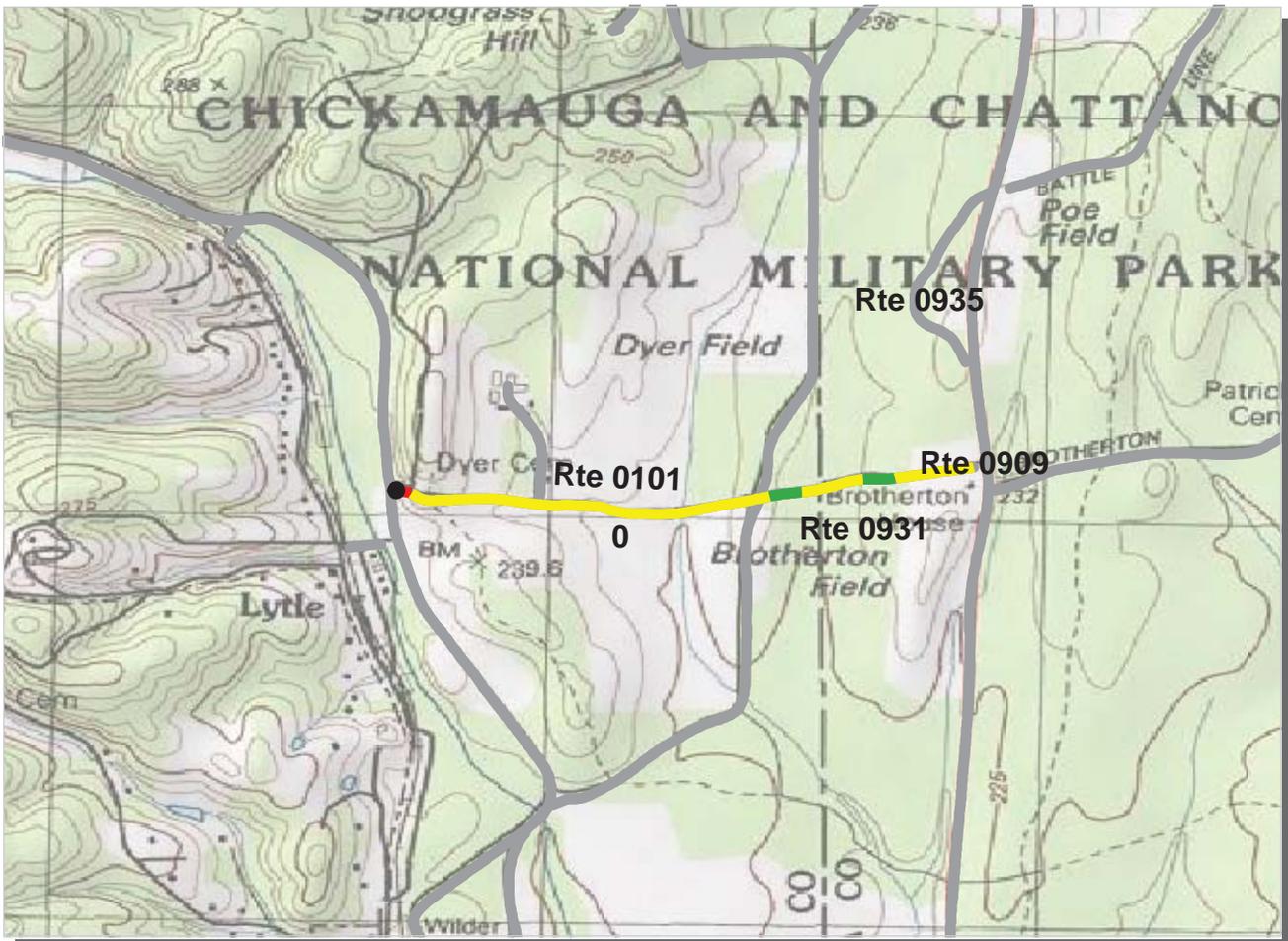
ROUTE: 0100 Jays Mill Road

TOTAL LENGTH: 1.09 Miles

Section Number	0	1			
Section Length (mi)	1.00	0.09			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	18	20			
Lane Width (ft)	10	10			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	29	39			
RCI (Roughness Condition Index)	43	19			
SCR (Surface Condition Rating)	20	36			
Alligator Cracking Index	48	61			
Rutting Index	40	60			
Patching Index	99	100			
Transverse Cracking Index	95	96			
Longitudinal Cracking Index	92	89			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0100 Jays Mill Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



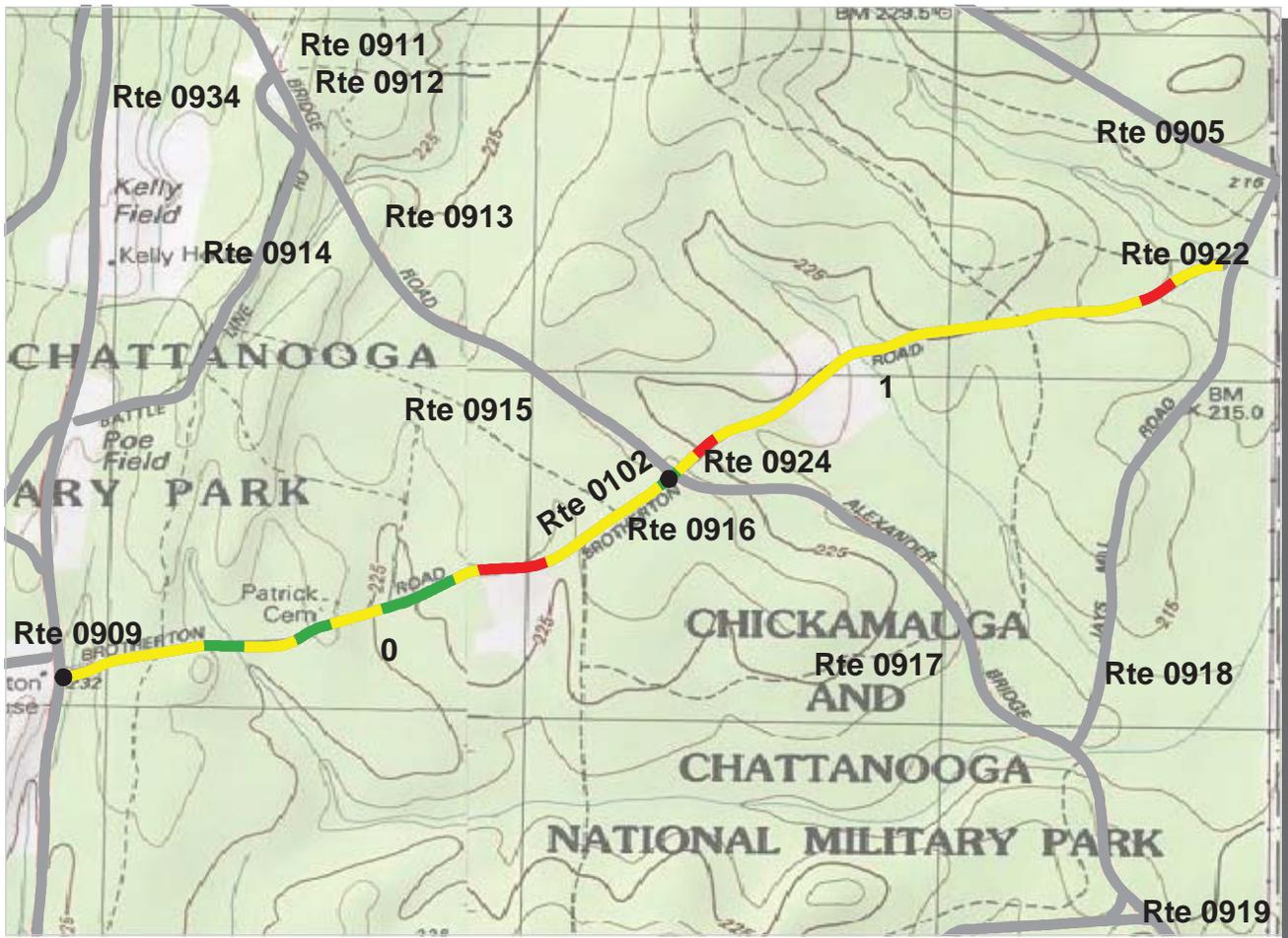
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0101 Dyer Mill Road **TOTAL LENGTH: 0.76 Miles**

Section Number	0			
Section Length (mi)	0.76			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	19			
Lane Width (ft)	10			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	75			
RCI (Roughness Condition Index)	79			
SCR (Surface Condition Rating)	74			
Alligator Cracking Index	100			
Rutting Index	76			
Patching Index	100			
Transverse Cracking Index	99			
Longitudinal Cracking Index	98			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

ROUTE: 0101 Dyer Mill Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



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

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

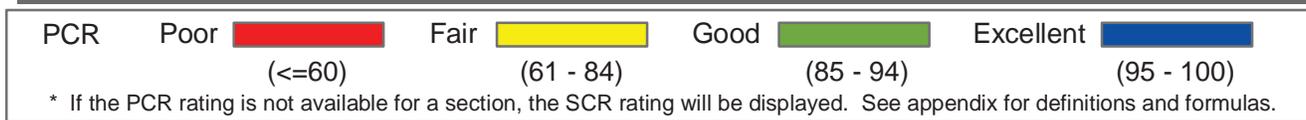
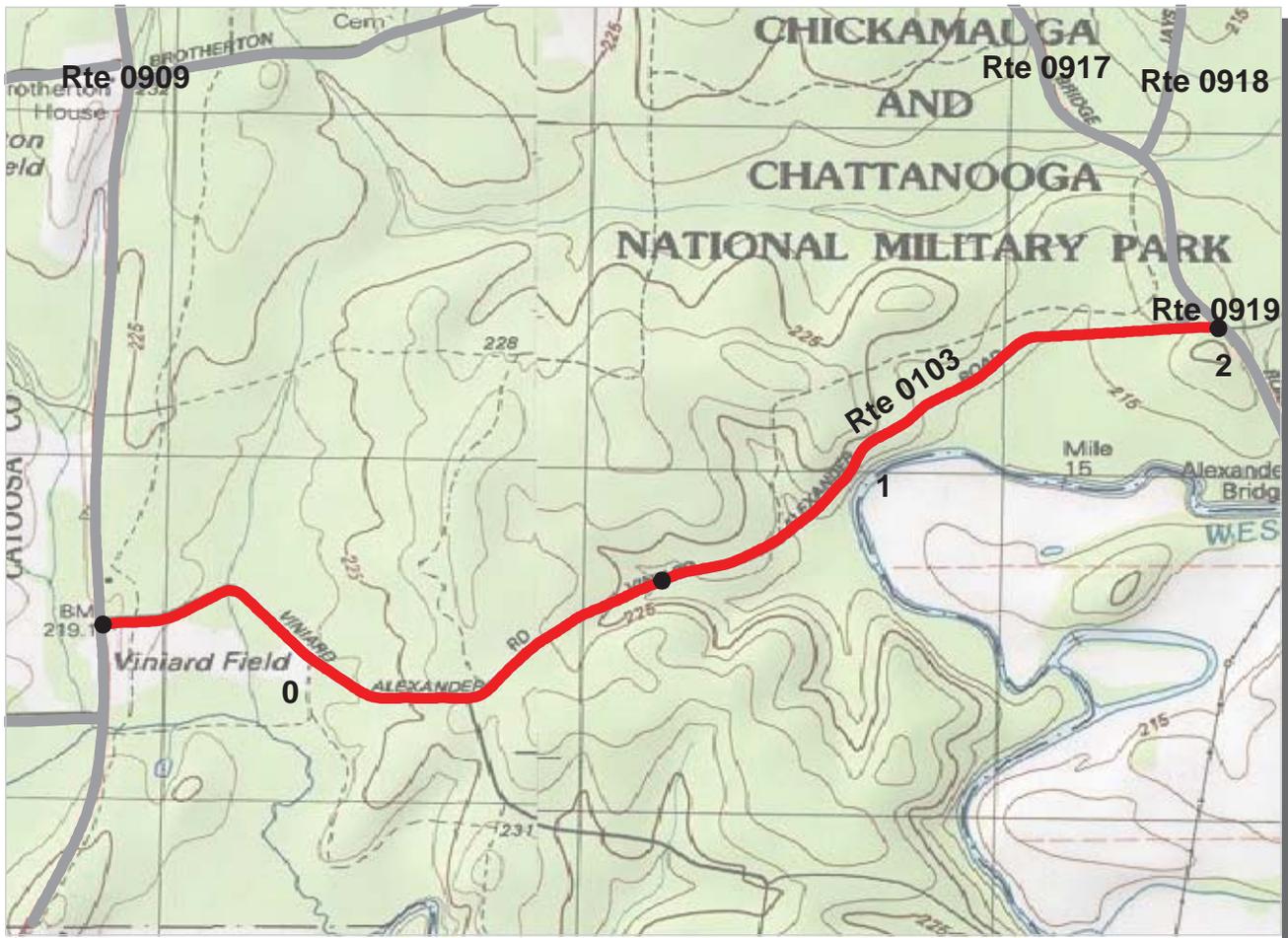
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0102 Brotherton Road **TOTAL LENGTH: 1.96 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.96			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	16	16			
Lane Width (ft)	8	8			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	74	72			
RCI (Roughness Condition Index)	70	83			
SCR (Surface Condition Rating)	77	65			
Alligator Cracking Index	99	99			
Rutting Index	79	74			
Patching Index	99	100			
Transverse Cracking Index	99	99			
Longitudinal Cracking Index	98	92			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0102 Brotherton Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

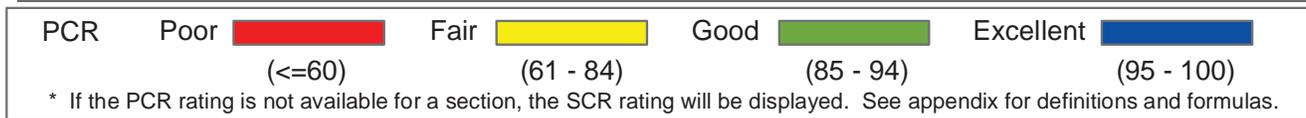
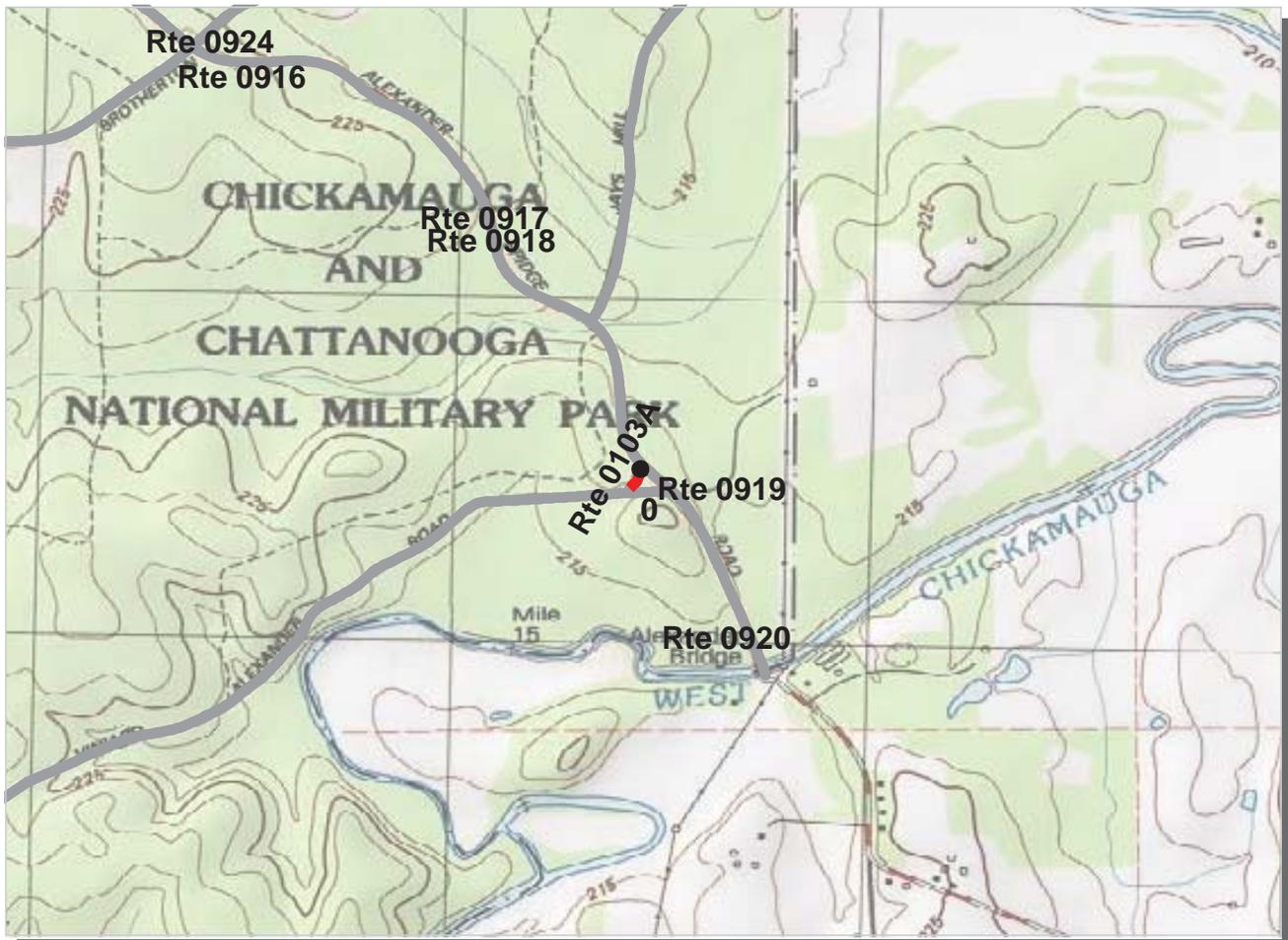
ROUTE: 0103 Alexander Vineyard Road

TOTAL LENGTH: 2.01 Miles

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.01		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	15	15	14		
Lane Width (ft)	8	8	7		
Shoulder Width (ft)	0	0	0		
Roadway Condition Information					
PCR (Pavement Condition Rating)	18	13	46		
RCI (Roughness Condition Index)	54	48	-1		
SCR (Surface Condition Rating)	5	7	46		
Alligator Cracking Index	67	76	100		
Rutting Index	19	20	75		
Patching Index	94	95	100		
Transverse Cracking Index	98	97	97		
Longitudinal Cracking Index	95	94	74		
Shoulder Condition Rating	N/A	N/A	N/A		
Drainage Condition Rating	POOR	POOR	POOR		

ROUTE: 0103 Alexander Vineyard Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0103A Alexander Vineyard Road Spur

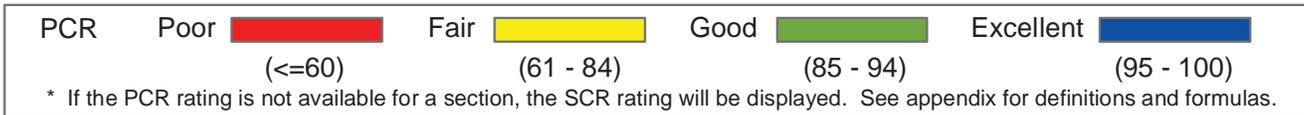
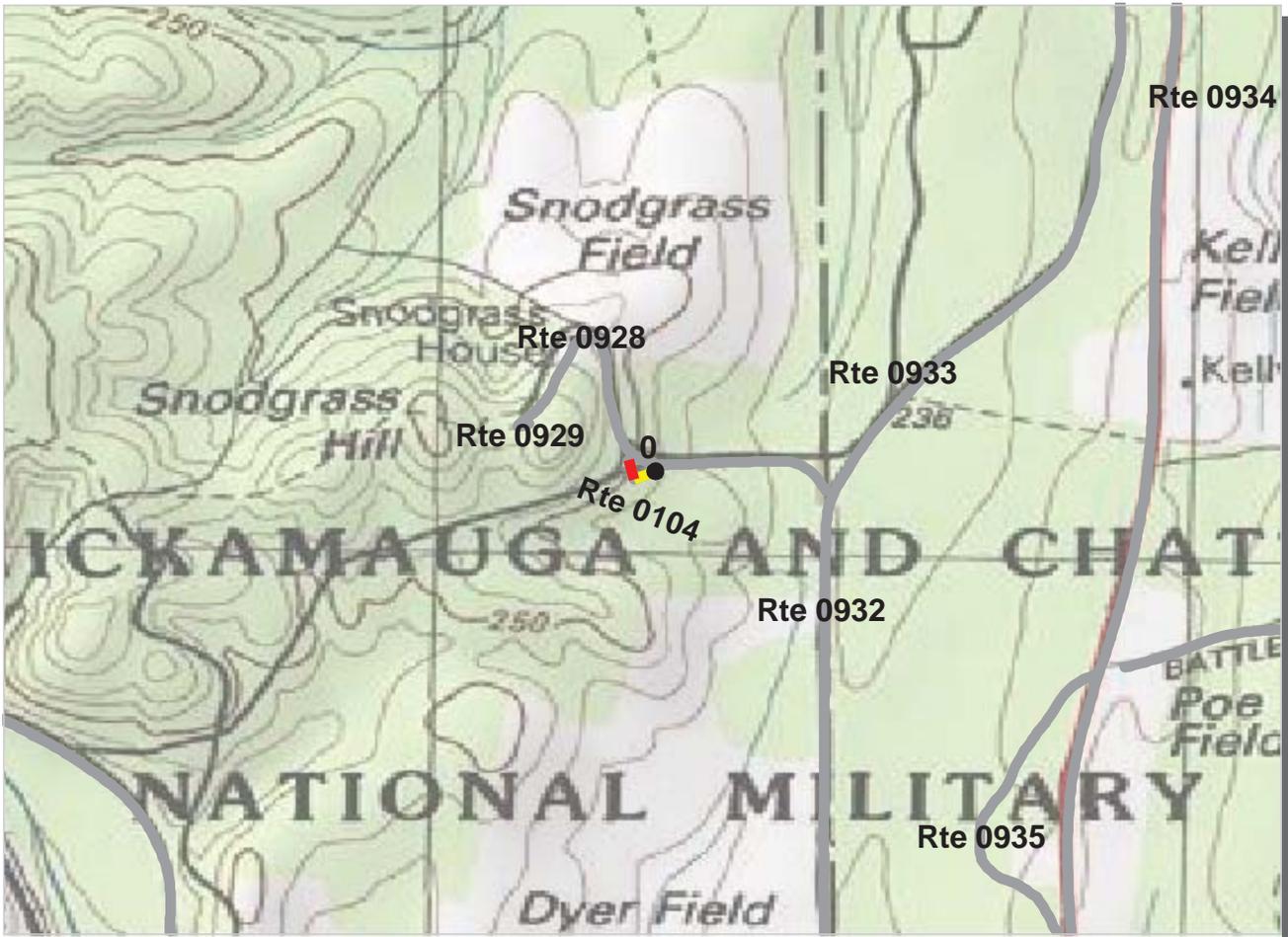
TOTAL LENGTH: 0.05 Miles

Section Number	0				
Section Length (mi)	0.05				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	6				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	6				
Alligator Cracking Index	76				
Rutting Index	25				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	92				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0103A Alexander Vineyard Road Spur

* NC designates data not collected NA designates not applicable

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



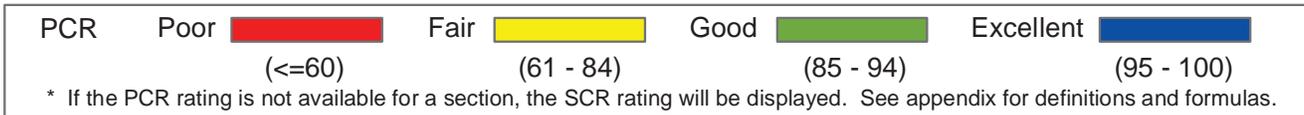
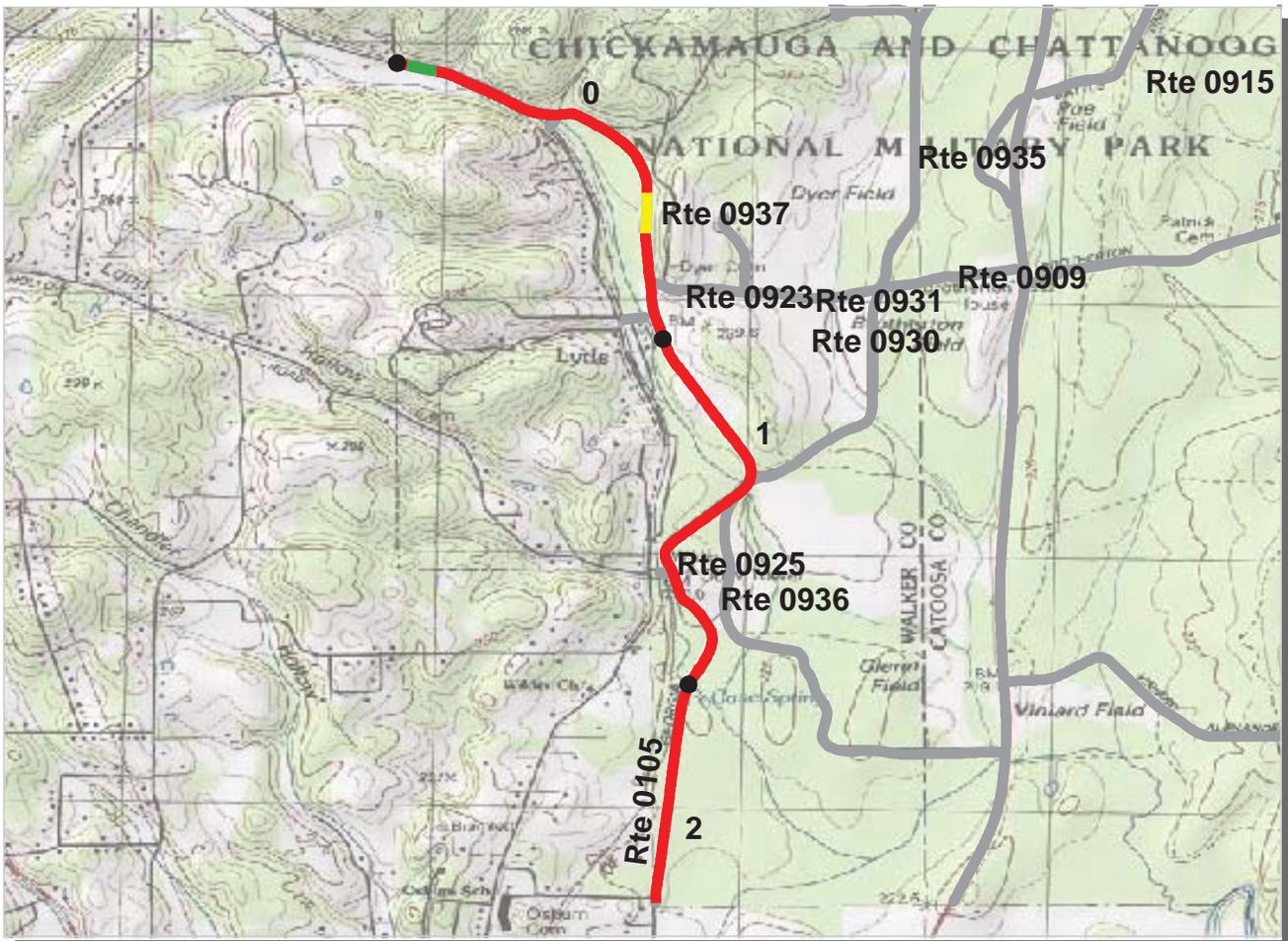
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0104 Vittetoe Road **TOTAL LENGTH: 0.05 Miles**

Section Number	0				
Section Length (mi)	0.05				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	52				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	52				
Alligator Cracking Index	99				
Rutting Index	54				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0104 Vittetoe Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



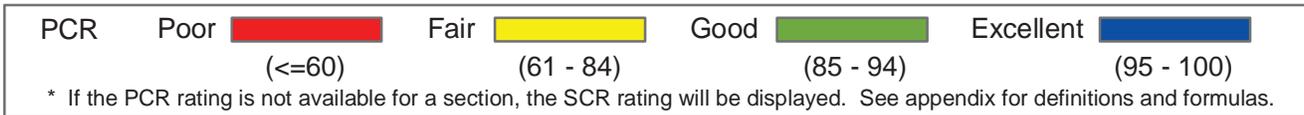
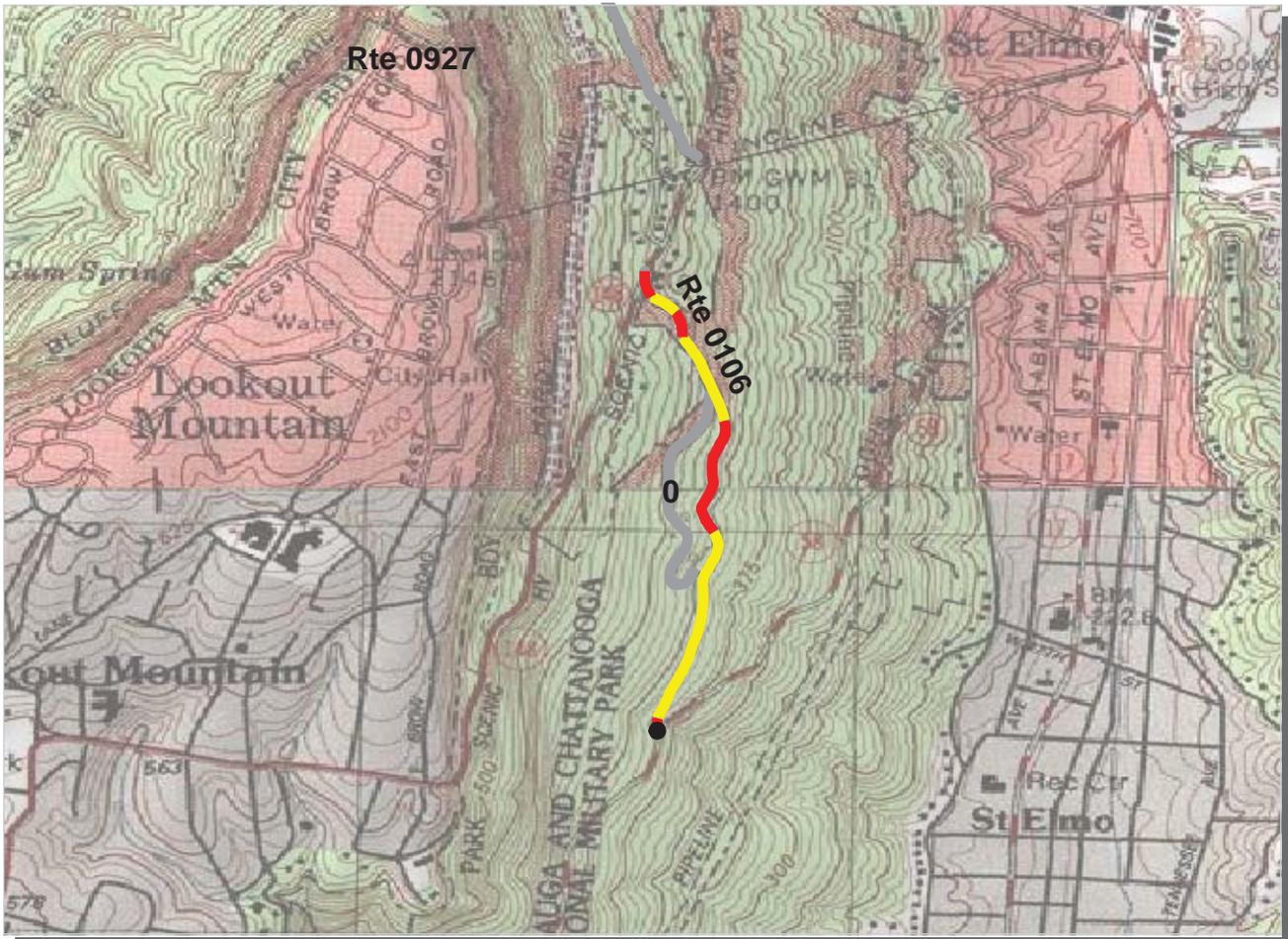
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0105 Chick Vittetoe Road **TOTAL LENGTH: 2.56 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.56		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	18	18	20		
Lane Width (ft)	9	9	9		
Shoulder Width (ft)	0	0	0		
Roadway Condition Information					
PCR (Pavement Condition Rating)	28	30	23		
RCI (Roughness Condition Index)	43	26	38		
SCR (Surface Condition Rating)	24	29	13		
Alligator Cracking Index	90	94	34		
Rutting Index	33	48	43		
Patching Index	96	99	99		
Transverse Cracking Index	98	88	94		
Longitudinal Cracking Index	99	95	94		
Shoulder Condition Rating	N/A	N/A	N/A		
Drainage Condition Rating	POOR	POOR	POOR		

ROUTE: 0105 Chick Vittetoe Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.effhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0106 Sanders Road

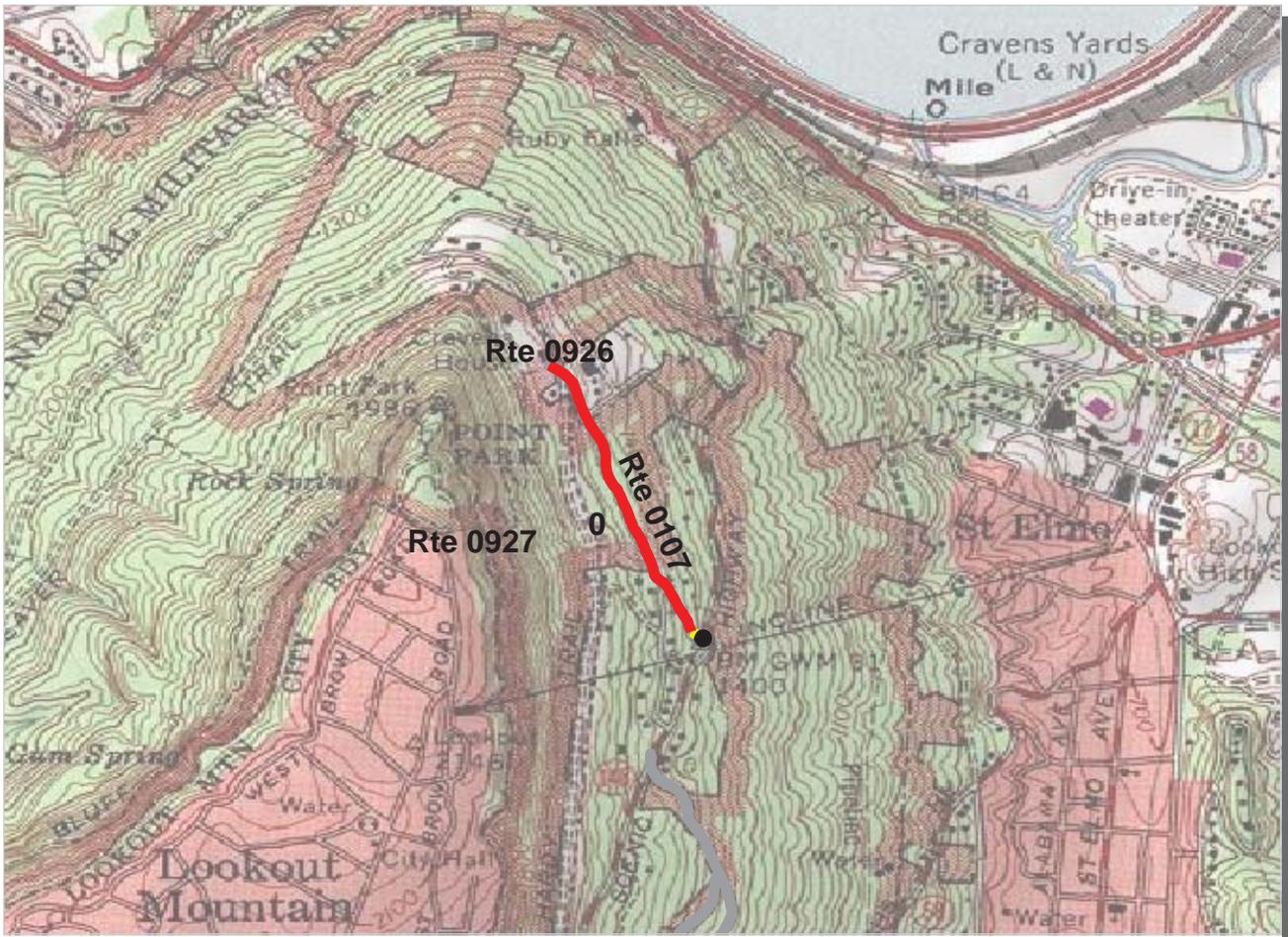
TOTAL LENGTH: 0.77 Miles

Section Number	0				
Section Length (mi)	0.77				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	64				
RCI (Roughness Condition Index)	74				
SCR (Surface Condition Rating)	60				
Alligator Cracking Index	96				
Rutting Index	70				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	94				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0106 Sanders Road

* NC designates data not collected NA designates not applicable

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



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

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

Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

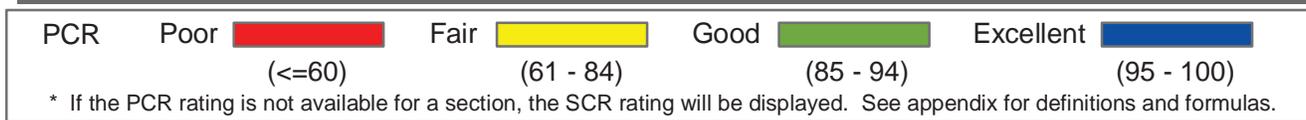
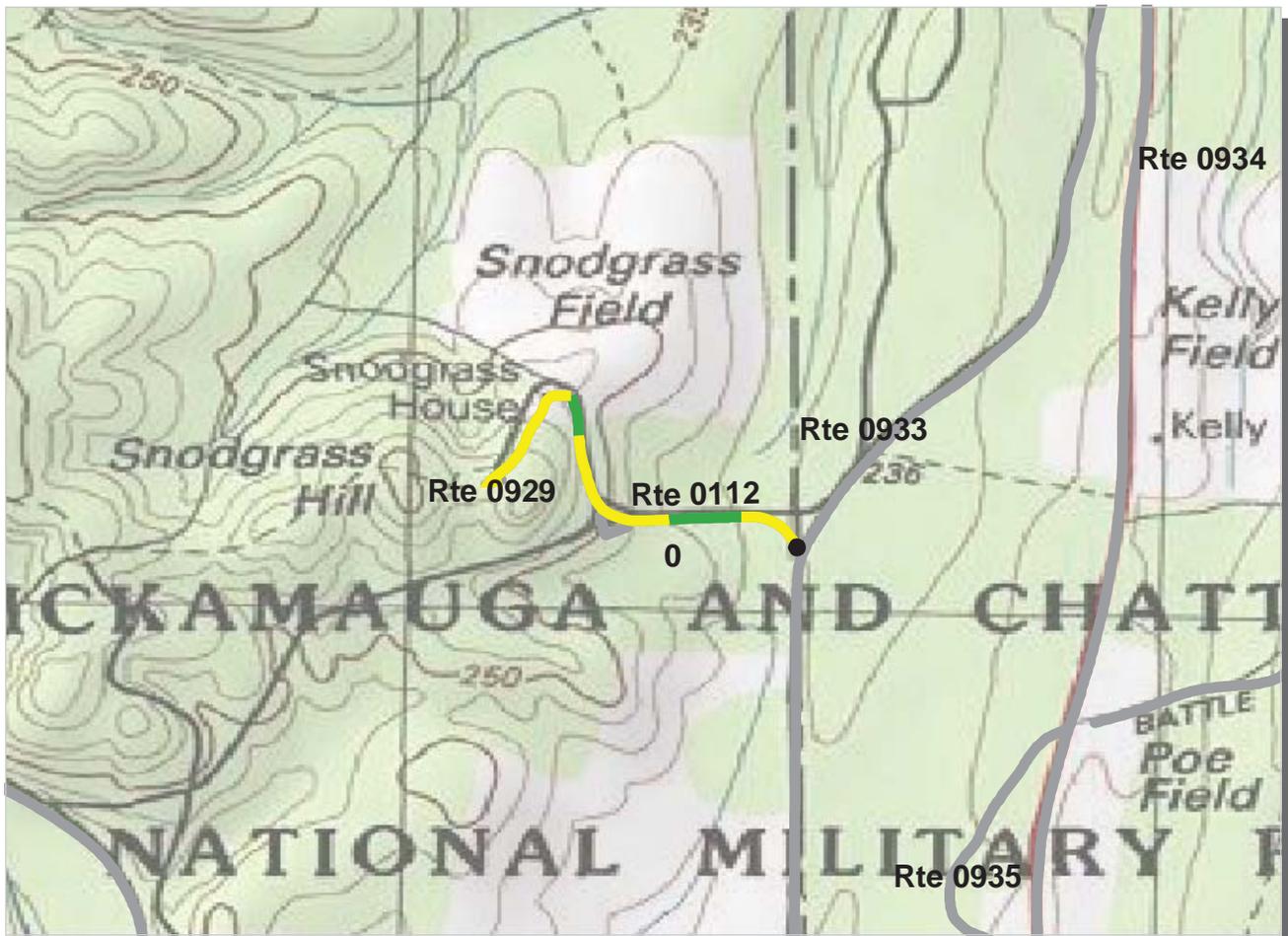
ROUTE: 0107 Willingham Road

TOTAL LENGTH: 0.50 Miles

Section Number	0				
Section Length (mi)	0.50				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	28				
Lane Width (ft)	14				
Shoulder Width (ft)	1				
Roadway Condition Information					
PCR (Pavement Condition Rating)	40				
RCI (Roughness Condition Index)	50				
SCR (Surface Condition Rating)	39				
Alligator Cracking Index	91				
Rutting Index	48				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/C				
Drainage Condition Rating	GOOD				

ROUTE: 0107 Willingham Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0112 Snodgrass Road

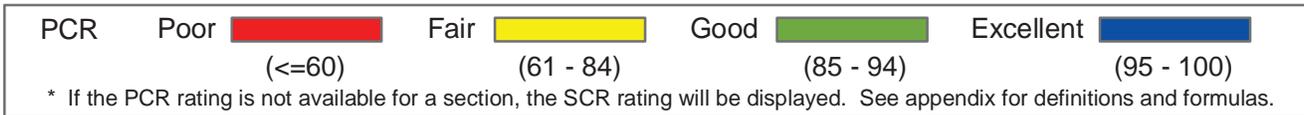
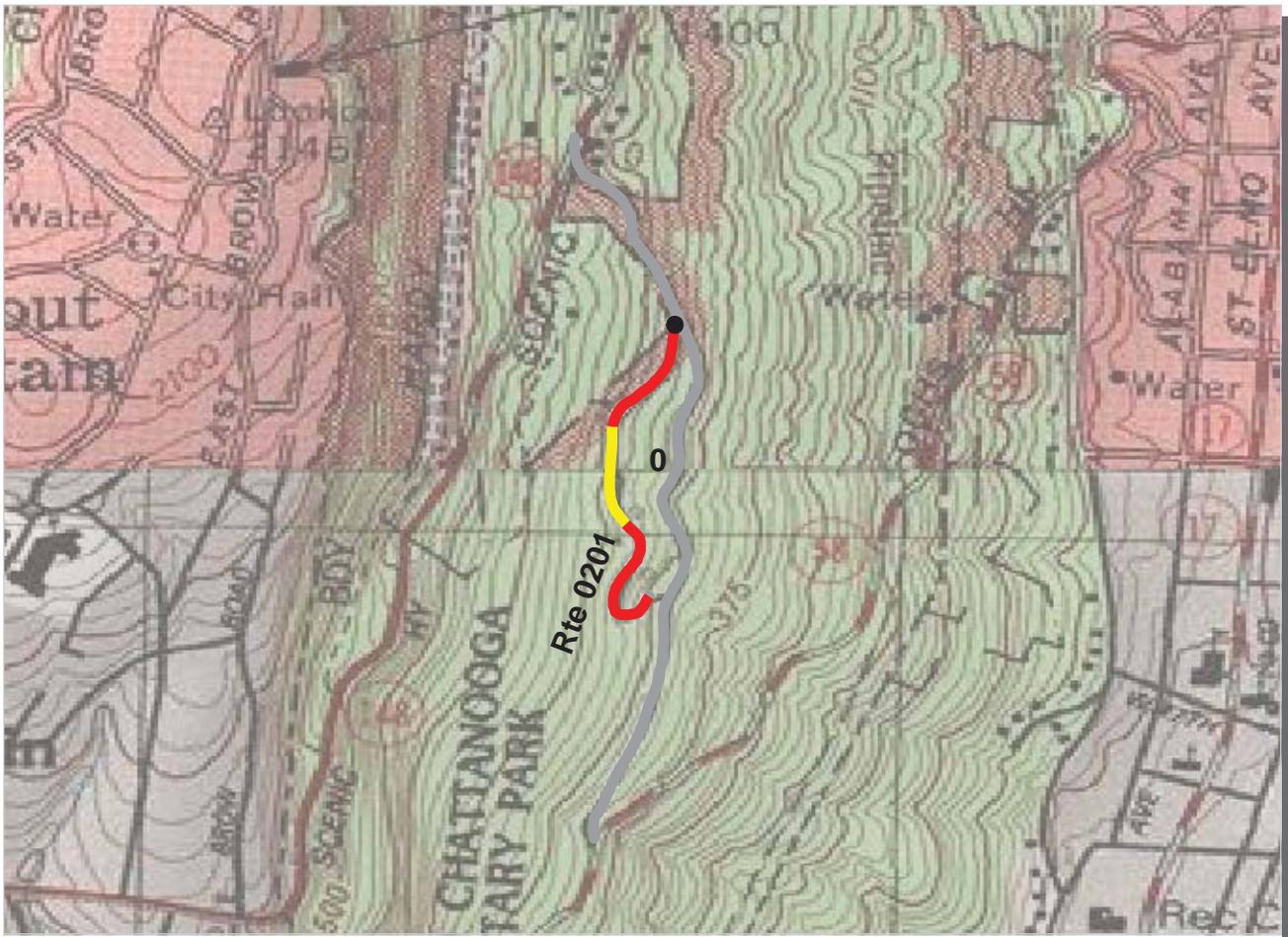
TOTAL LENGTH: 0.45 Miles

Section Number	0				
Section Length (mi)	0.45				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	74				
RCI (Roughness Condition Index)	90				
SCR (Surface Condition Rating)	71				
Alligator Cracking Index	99				
Rutting Index	72				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0112 Snodgrass Road

* NC designates data not collected NA designates not applicable

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



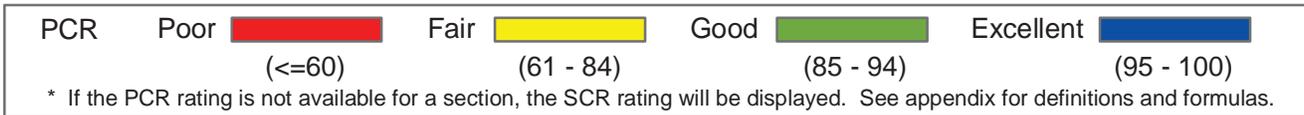
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0201 Sanders Picnic Road **TOTAL LENGTH: 0.38 Miles**

Section Number	0				
Section Length (mi)	0.38				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	16				
Lane Width (ft)	16				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	46				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	46				
Alligator Cracking Index	99				
Rutting Index	50				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0201 Sanders Picnic Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

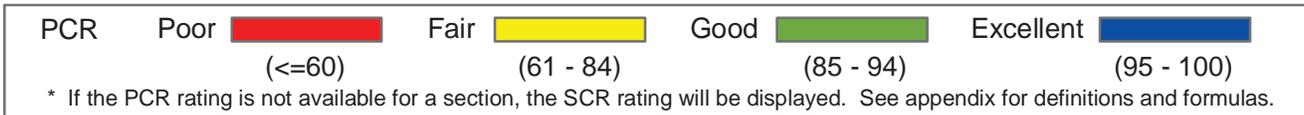
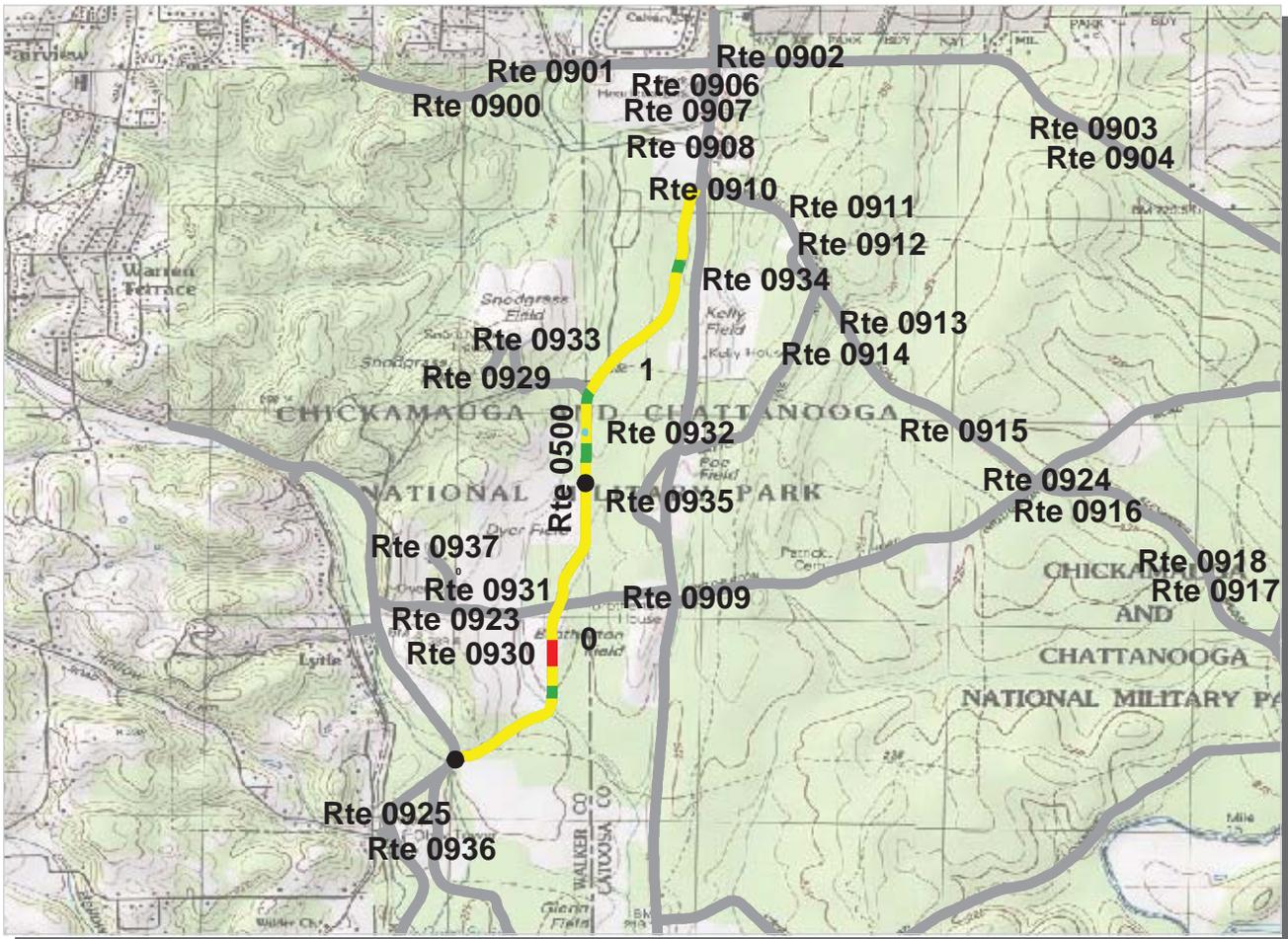
ROUTE: 0407 Savannah Service Road

TOTAL LENGTH: 0.20 Miles

Section Number	0				
Section Length (mi)	0.20				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	15				
Lane Width (ft)	7				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	22				
RCI (Roughness Condition Index)	49				
SCR (Surface Condition Rating)	20				
Alligator Cracking Index	95				
Rutting Index	41				
Patching Index	99				
Transverse Cracking Index	88				
Longitudinal Cracking Index	90				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0407 Savannah Service Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

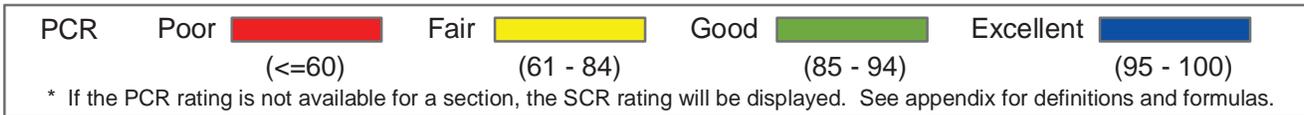
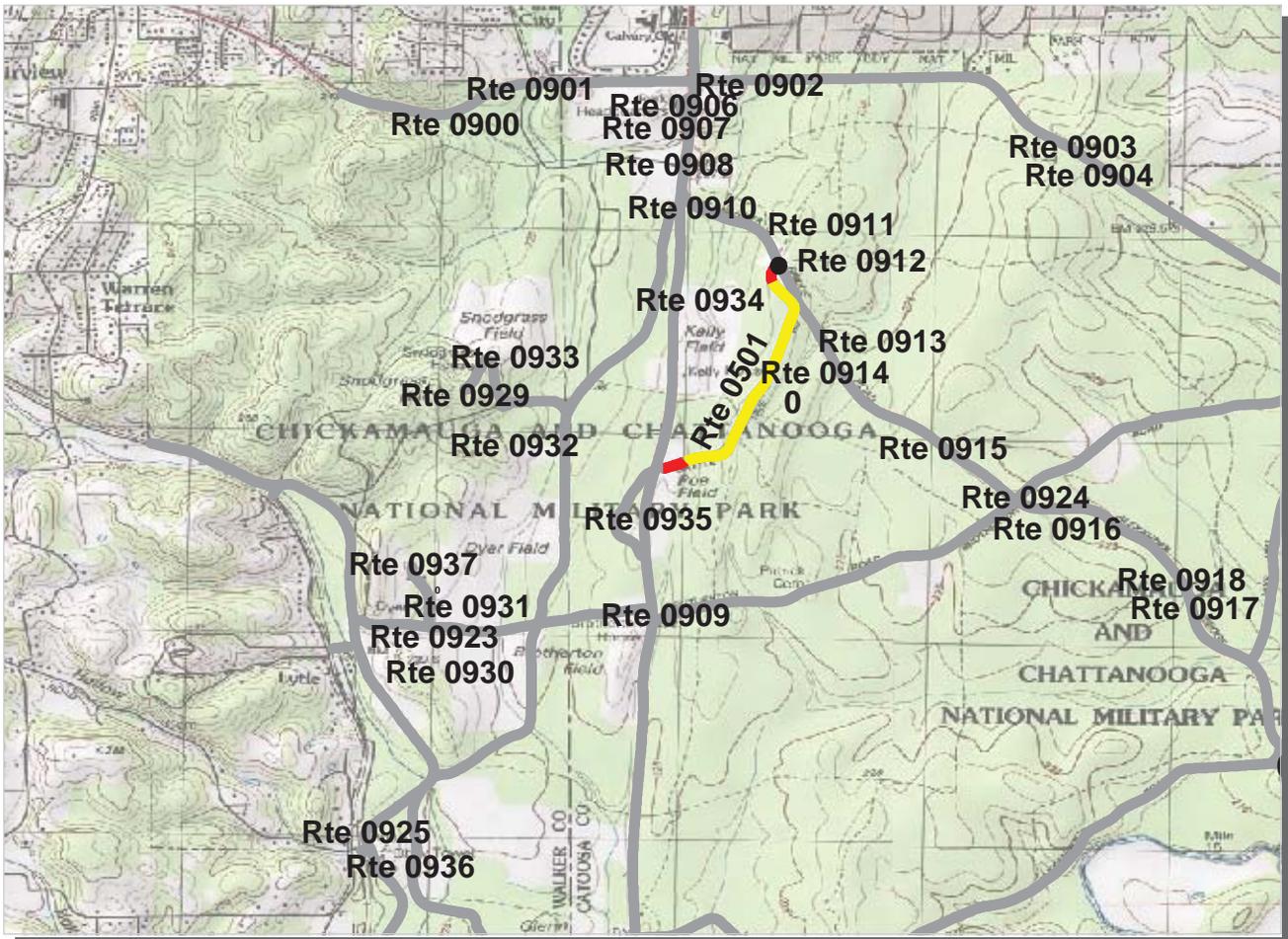
ROUTE: 0500 Glenn Kelley Road

TOTAL LENGTH: 1.99 Miles

Section Number	0	1			
Section Length (mi)	1.00	0.99			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1	1			
Paved Width (ft)	18	18			
Lane Width (ft)	18	18			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	68	74			
RCI (Roughness Condition Index)	85	93			
SCR (Surface Condition Rating)	58	63			
Alligator Cracking Index	99	100			
Rutting Index	64	64			
Patching Index	100	100			
Transverse Cracking Index	99	99			
Longitudinal Cracking Index	94	99			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0500 Glenn Kelley Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

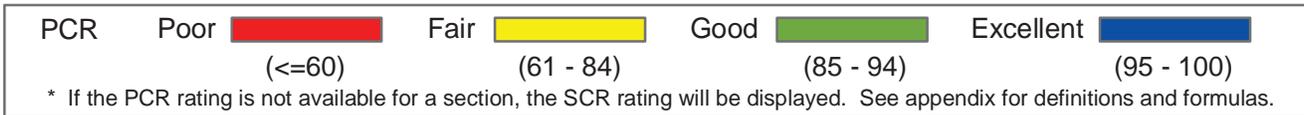
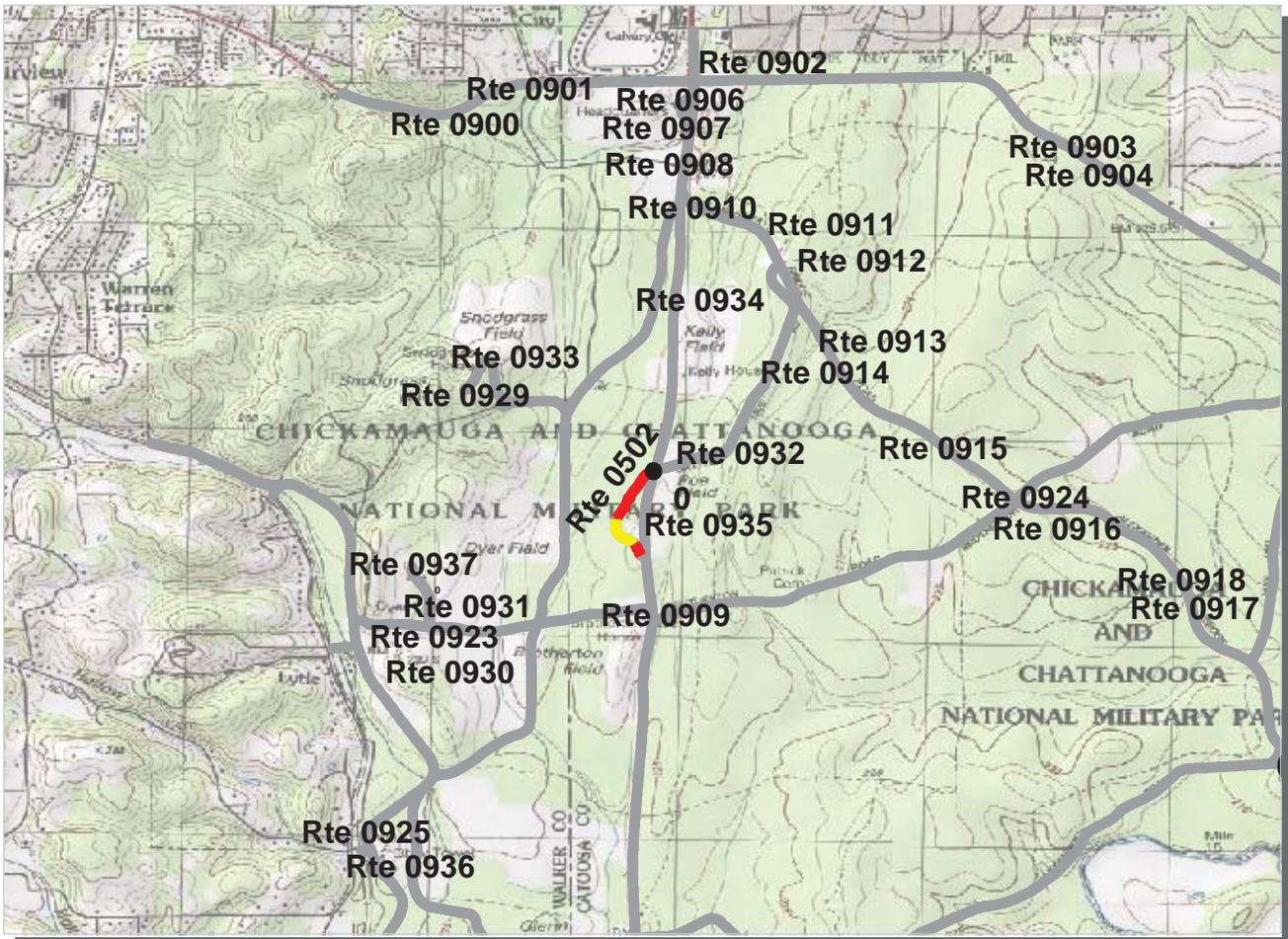
ROUTE: 0501 Battleline Road

TOTAL LENGTH: 0.82 Miles

Section Number	0			
Section Length (mi)	0.82			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	1			
Paved Width (ft)	19			
Lane Width (ft)	19			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	67			
RCI (Roughness Condition Index)	86			
SCR (Surface Condition Rating)	59			
Alligator Cracking Index	99			
Rutting Index	68			
Patching Index	100			
Transverse Cracking Index	97			
Longitudinal Cracking Index	93			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

ROUTE: 0501 Battleline Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0502 Poe Road

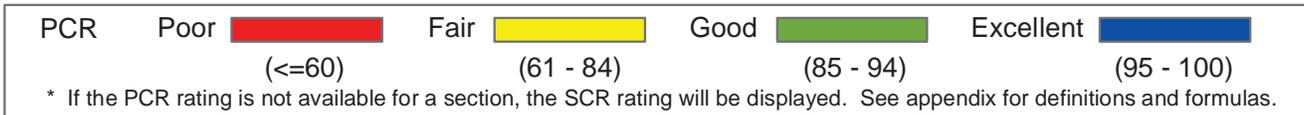
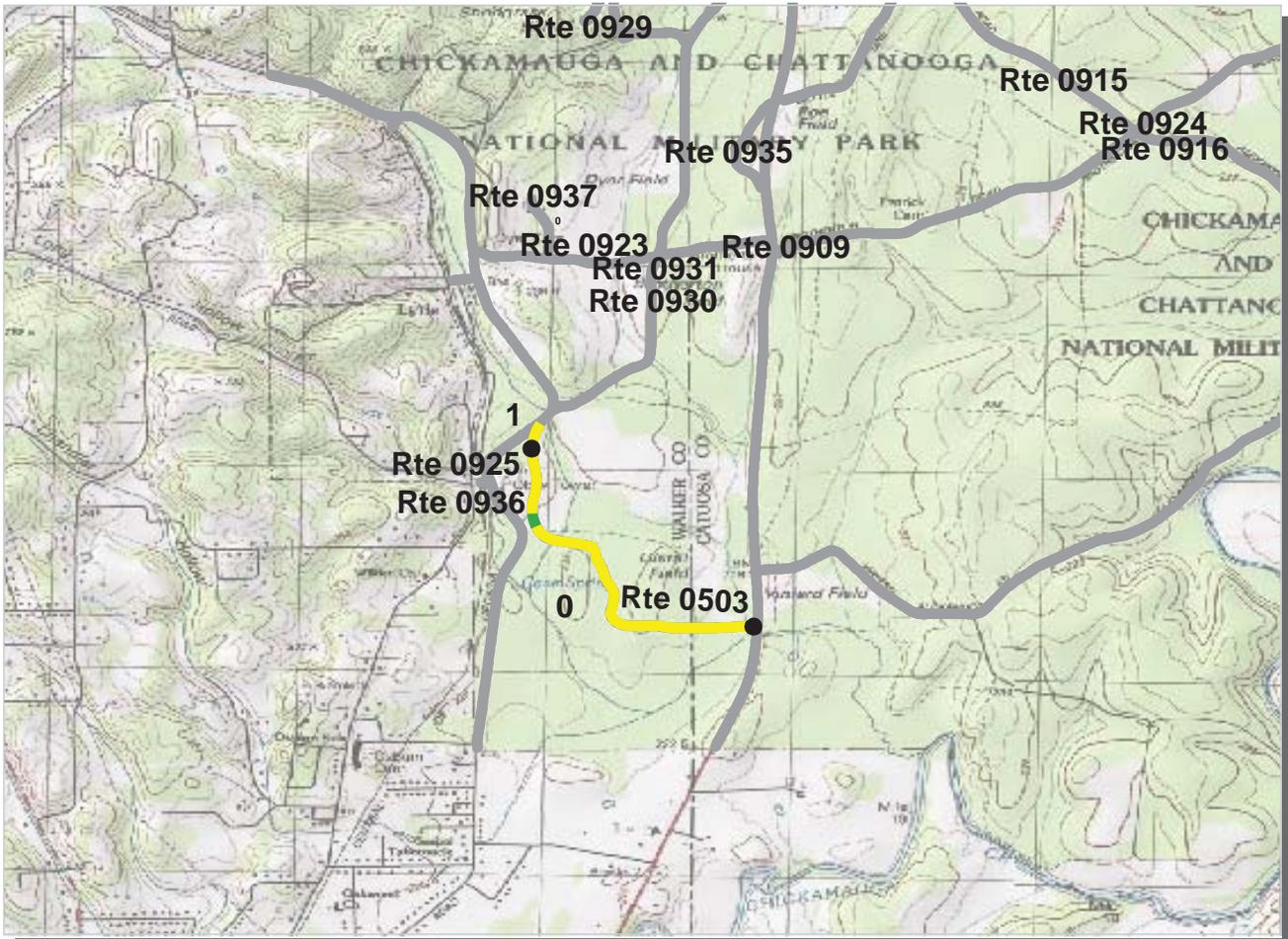
TOTAL LENGTH: 0.34 Miles

Section Number	0			
Section Length (mi)	0.34			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	1			
Paved Width (ft)	13			
Lane Width (ft)	13			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	50			
RCI (Roughness Condition Index)	69			
SCR (Surface Condition Rating)	44			
Alligator Cracking Index	100			
Rutting Index	59			
Patching Index	100			
Transverse Cracking Index	97			
Longitudinal Cracking Index	87			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

ROUTE: 0502 Poe Road

* NC designates data not collected NA designates not applicable

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



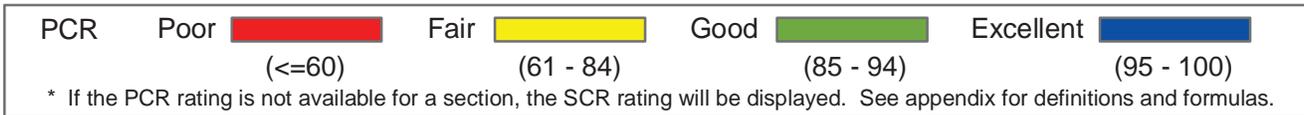
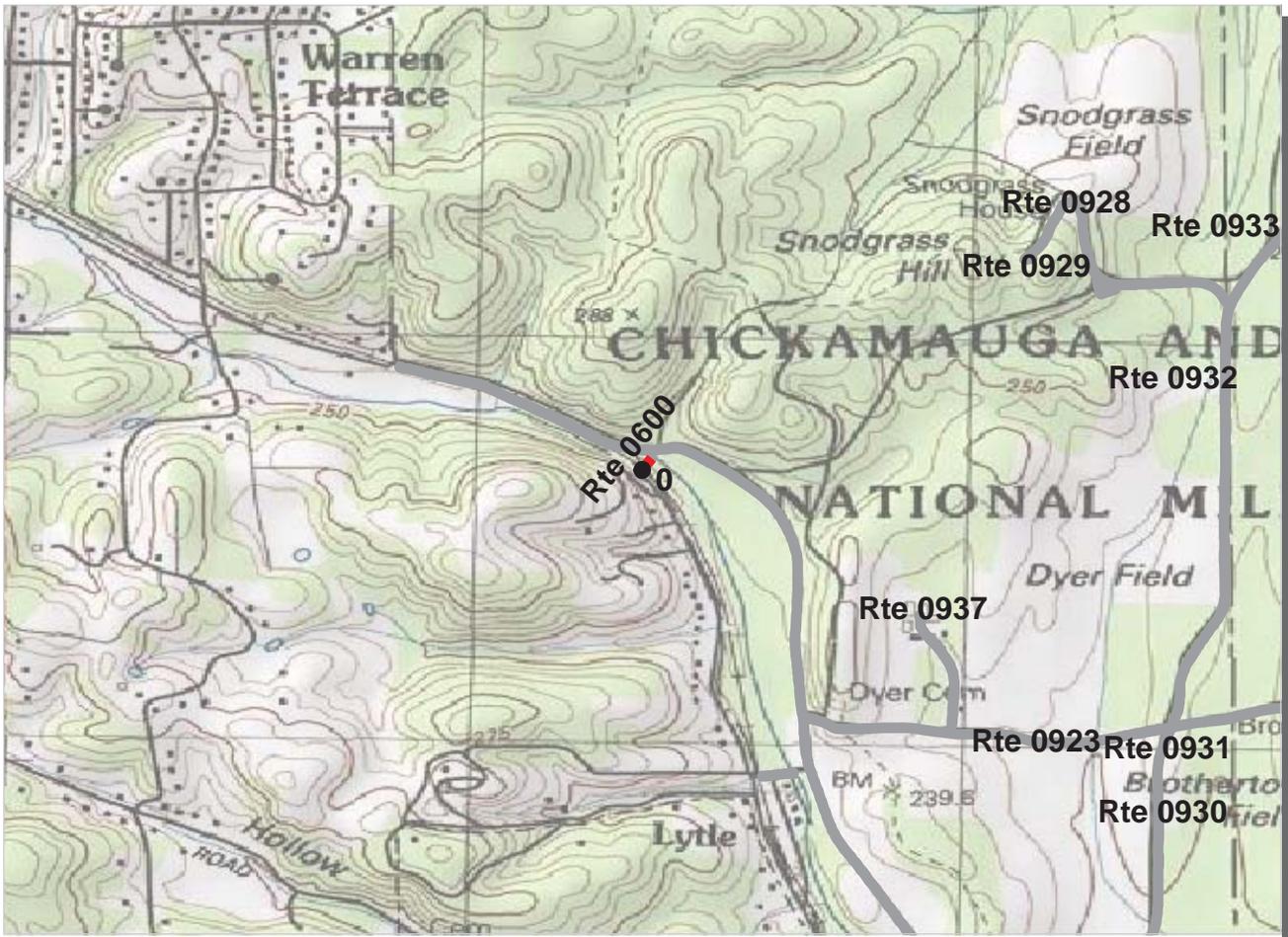
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0503 Glen Vineyard Road **TOTAL LENGTH: 1.09 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.09			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1	1			
Paved Width (ft)	16	11			
Lane Width (ft)	16	11			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	78	80			
RCI (Roughness Condition Index)	92	98			
SCR (Surface Condition Rating)	68	69			
Alligator Cracking Index	99	100			
Rutting Index	73	70			
Patching Index	100	100			
Transverse Cracking Index	98	99			
Longitudinal Cracking Index	97	100			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	POOR	POOR			

ROUTE: 0503 Glen Vineyard Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



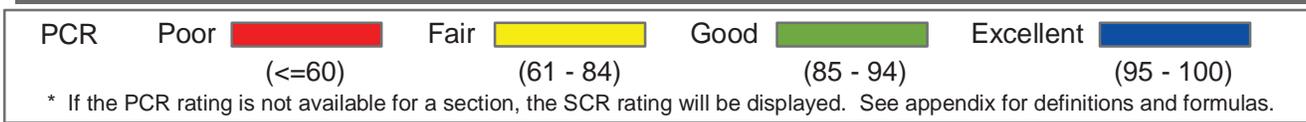
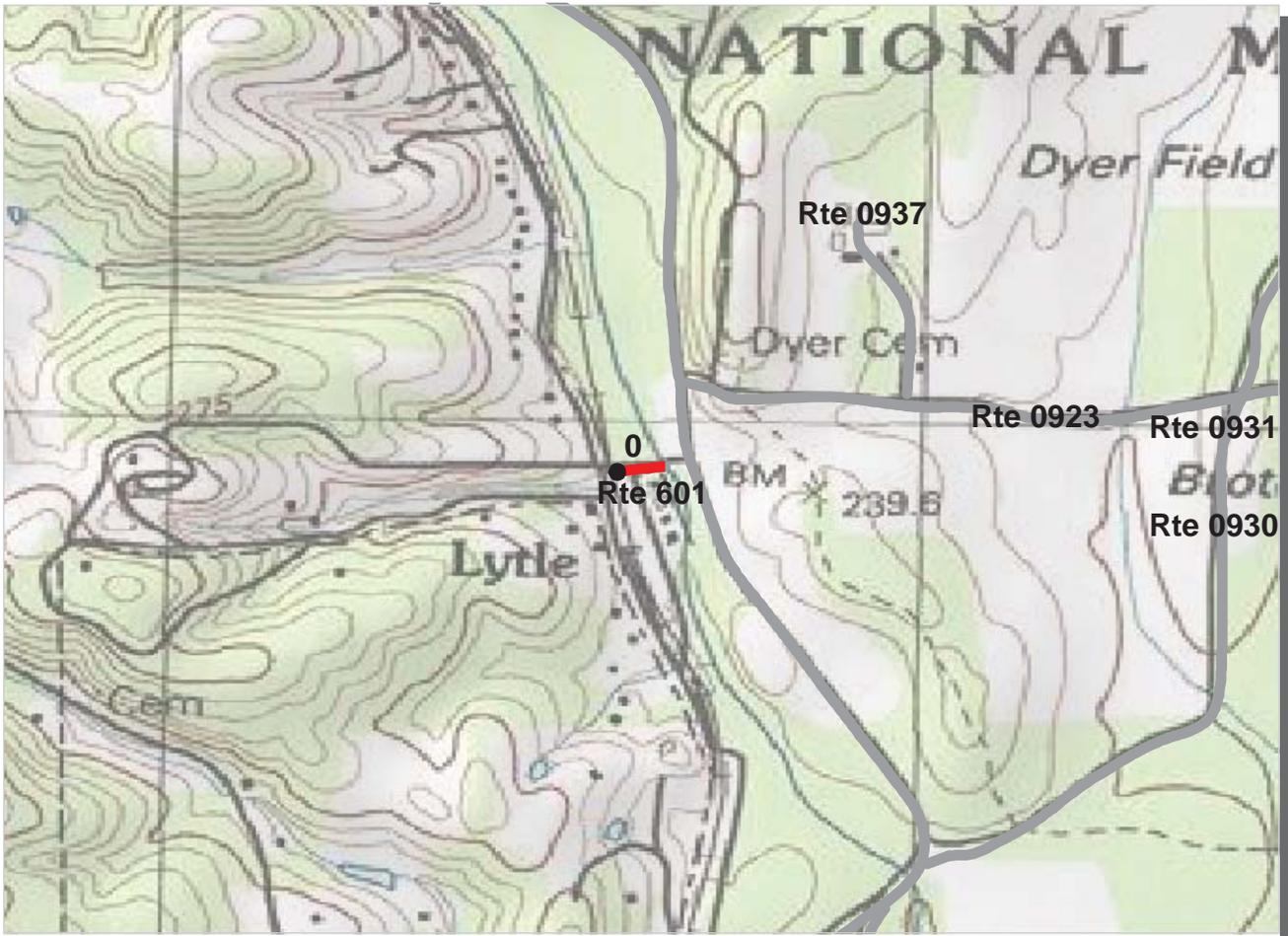
Southeast Region
CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0600 Dry Valley Road **TOTAL LENGTH: 0.04 Miles**

Section Number	0				
Section Length (mi)	0.04				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	31				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	31				
Alligator Cracking Index	100				
Rutting Index	31				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0600 Dry Valley Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

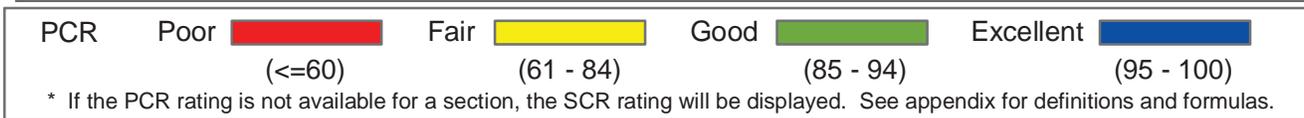
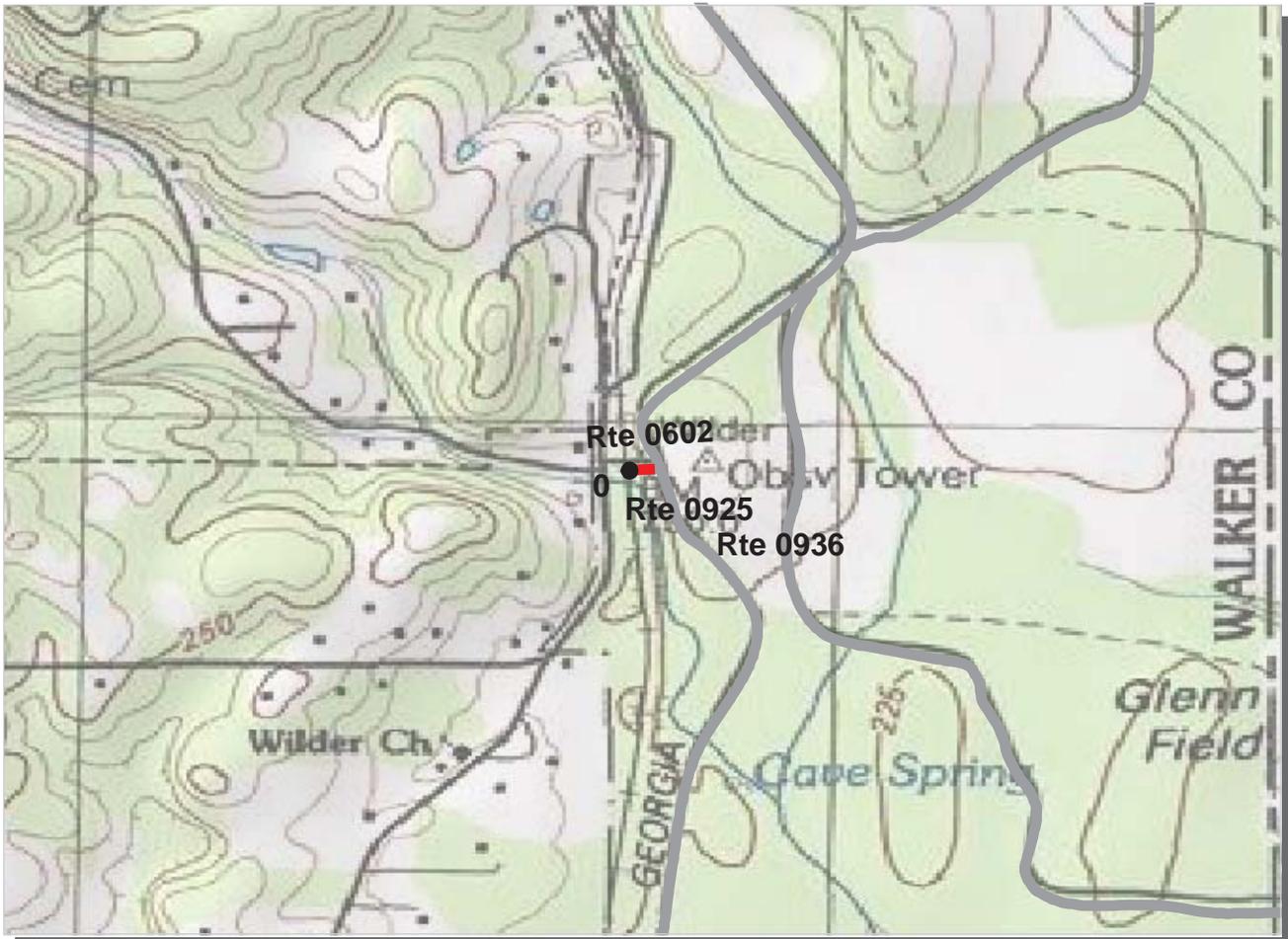
ROUTE: 0601 Lytle Station Road

TOTAL LENGTH: 0.06 Miles

Section Number	0				
Section Length (mi)	0.06				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	15				
Lane Width (ft)	7				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	34				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	34				
Alligator Cracking Index	94				
Rutting Index	46				
Patching Index	95				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0601 Lytle Station Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

CHCH : Chickamauga & Chattanooga National Military Park

ROUTE: 0602 Tower Road

TOTAL LENGTH: 0.03 Miles

Section Number	0				
Section Length (mi)	0.03				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	14				
Lane Width (ft)	14				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	0				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	4				
Rutting Index	31				
Patching Index	95				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0602 Tower Road

* NC designates data not collected NA designates not applicable

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

Chickamauga & Chattanooga National Military Park

Route 0108

Military Street
From Route 0107

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0108	0.31	0.00	18128	0.31	FAIR / 73	AS

* Lane miles are based on 11' lane widths



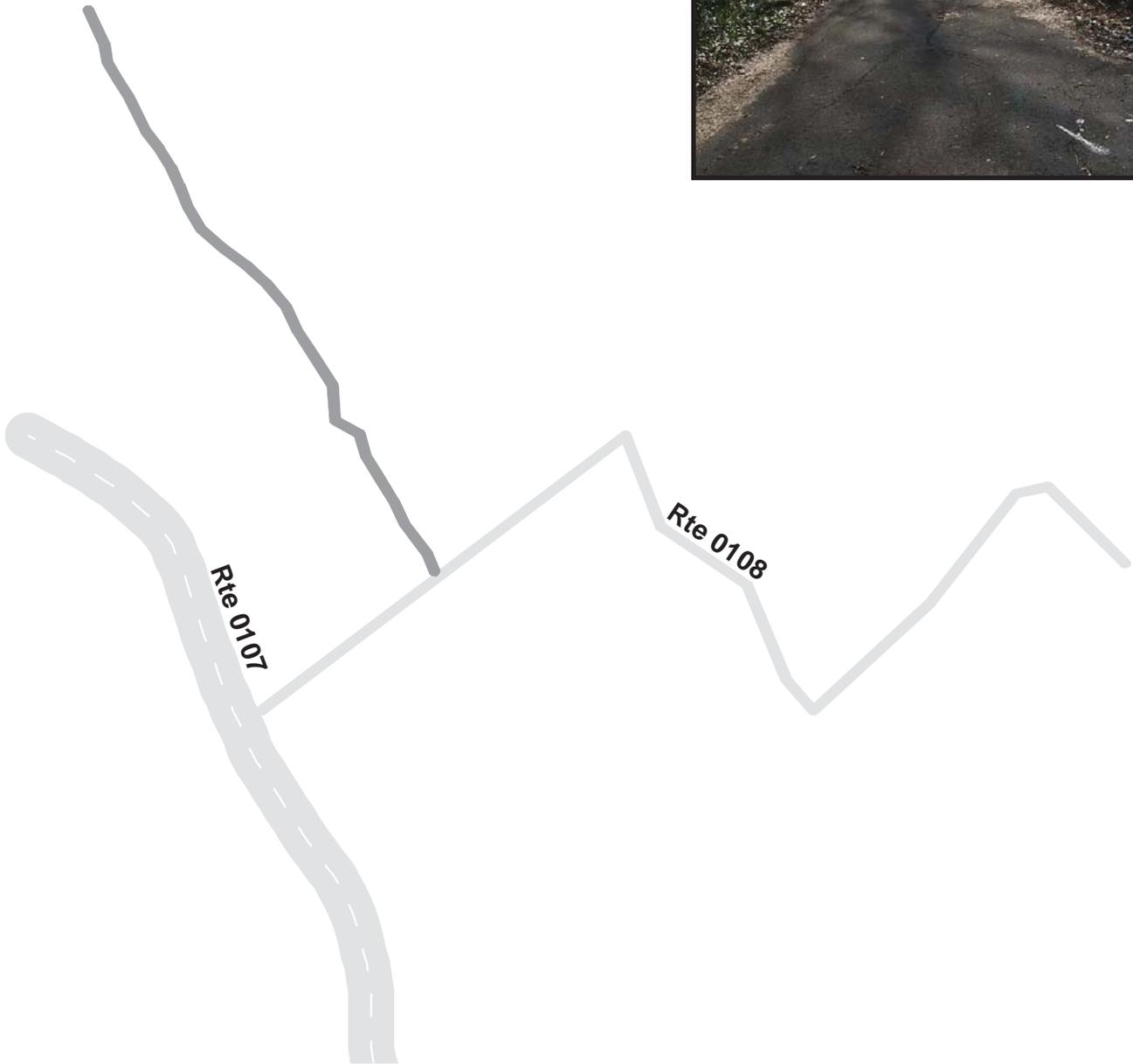
Chickamauga & Chattanooga National Military Park

Route 0109

Caroline Street
From Route 0108

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0109	0.17	0.00	10342	0.18	FAIR / 73	AS

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

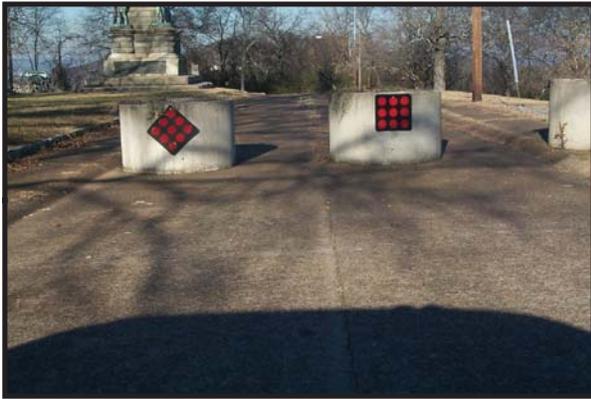
Route 0110

Crest Road

Bragg Reservation access and parking

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0110	0.09	0.00	5648	0.10	GOOD / 90	CO

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0111

Sherman Reservation

From Lightfoot Road

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0111	0.50	0.00	29066	0.50	FAIR / 73	OC

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0200

Picnic Area Access

From Route 0010

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0200	0.19	0.00	11335	0.20	FAIR / 73	AS

* Lane miles are based on 11' lane widths



Rte 0010



Chickamauga & Chattanooga National Military Park

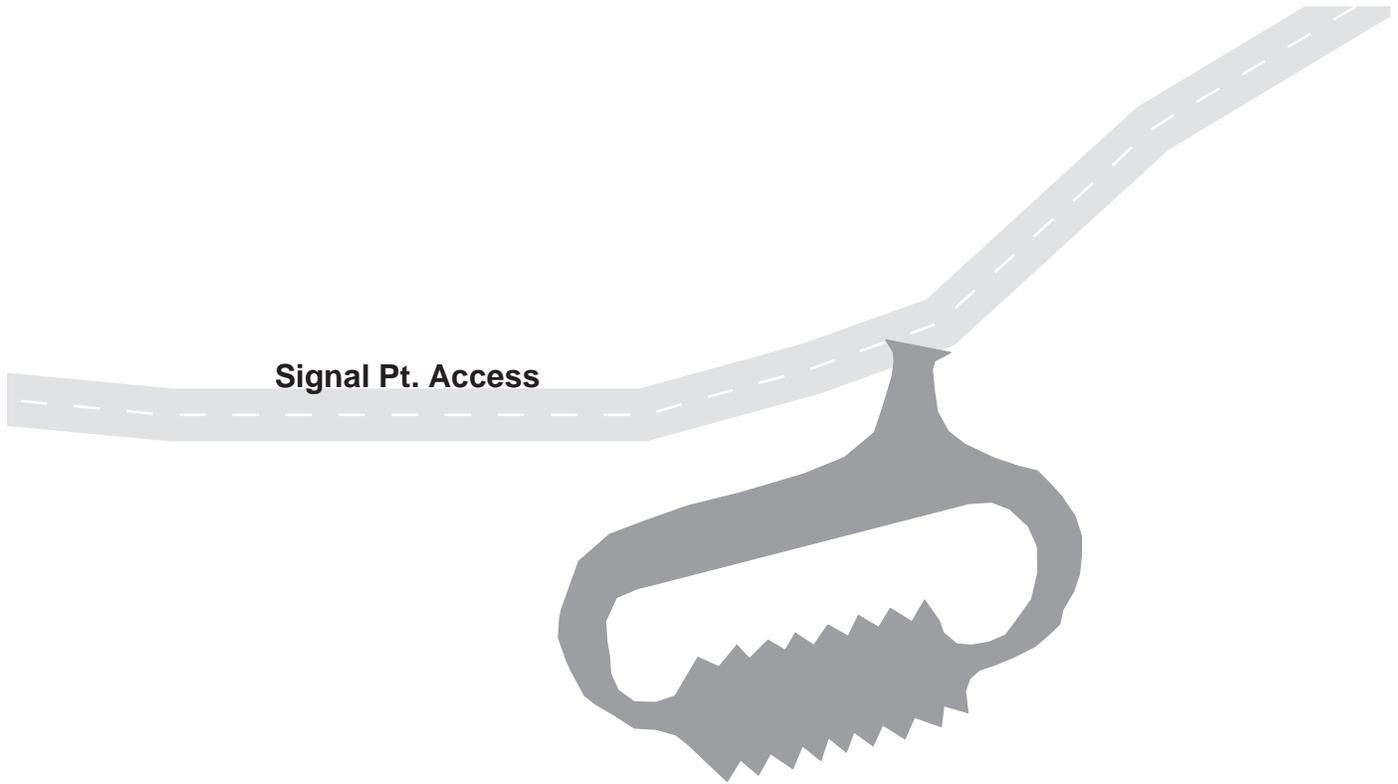
Route 0202

Signal Point Road

Signal Pt. Access and Parking from Park Boundary

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0202	0.23	0.00	12267	0.21	POOR / 45	OC

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0401

Mullis Road
From Route 0010

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0401	0.43	0.00	45015	0.78	POOR / 45	OC

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0411

Point Park Access Road
From Visitor Center Parking

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0411	0.27	0.00	16061	0.28	GOOD / 90	AS

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0900

Parking Area

From Route 0010 at MP 0.3

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	1/22/2002	3330	0.06	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

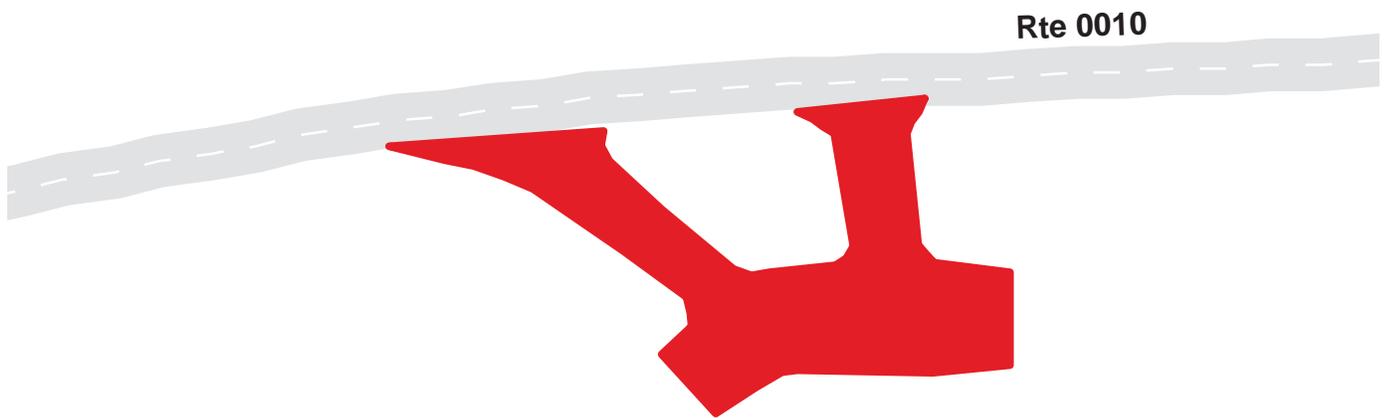
Route 0901

Parking Area

From Route 0010 at MP 0.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	1/22/2002	7449	0.13	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0902

Tennessee Monument Parking Area

Tennessee Artillery Monument parking off Route 0010 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902	Public	1/22/2002	16446	0.28	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

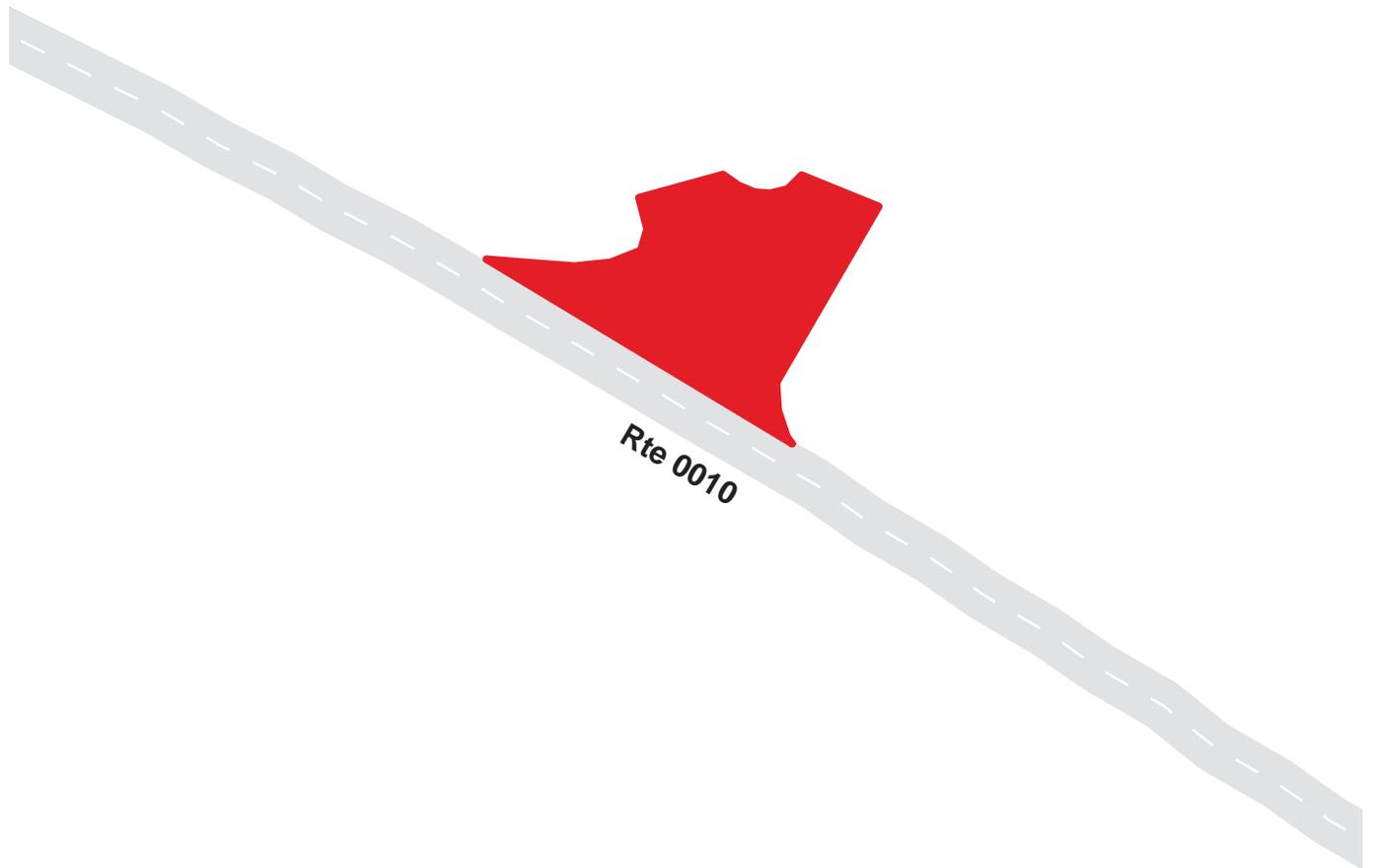
Route 0903

Parking Area

Parking Area off Route 0010 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	Public	1/22/2002	2645	0.05	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

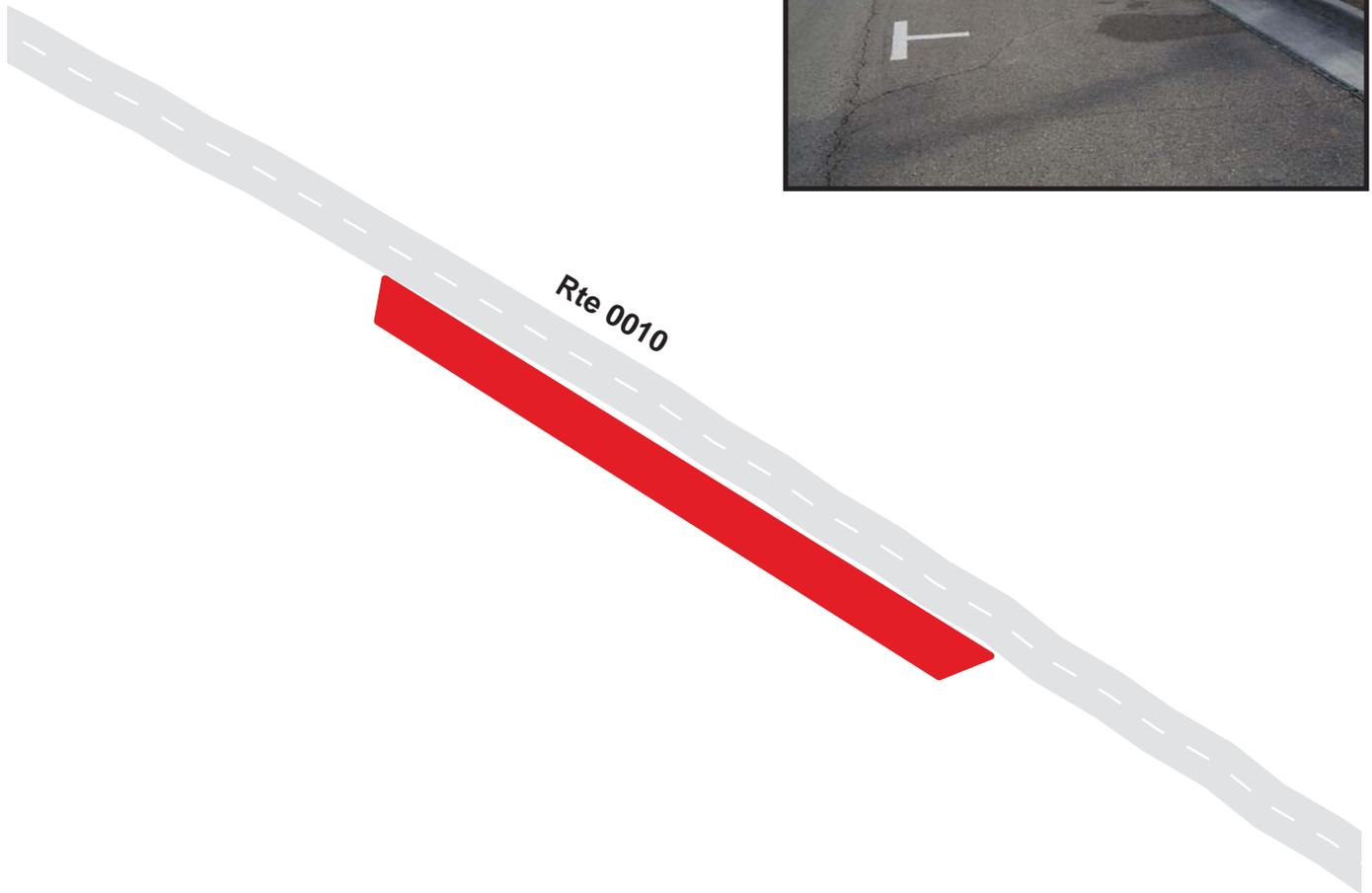
Route 0904

Brannans Division Monument Parking Area

Parking Area off Route 0010 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	Public	1/22/2002	1820	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



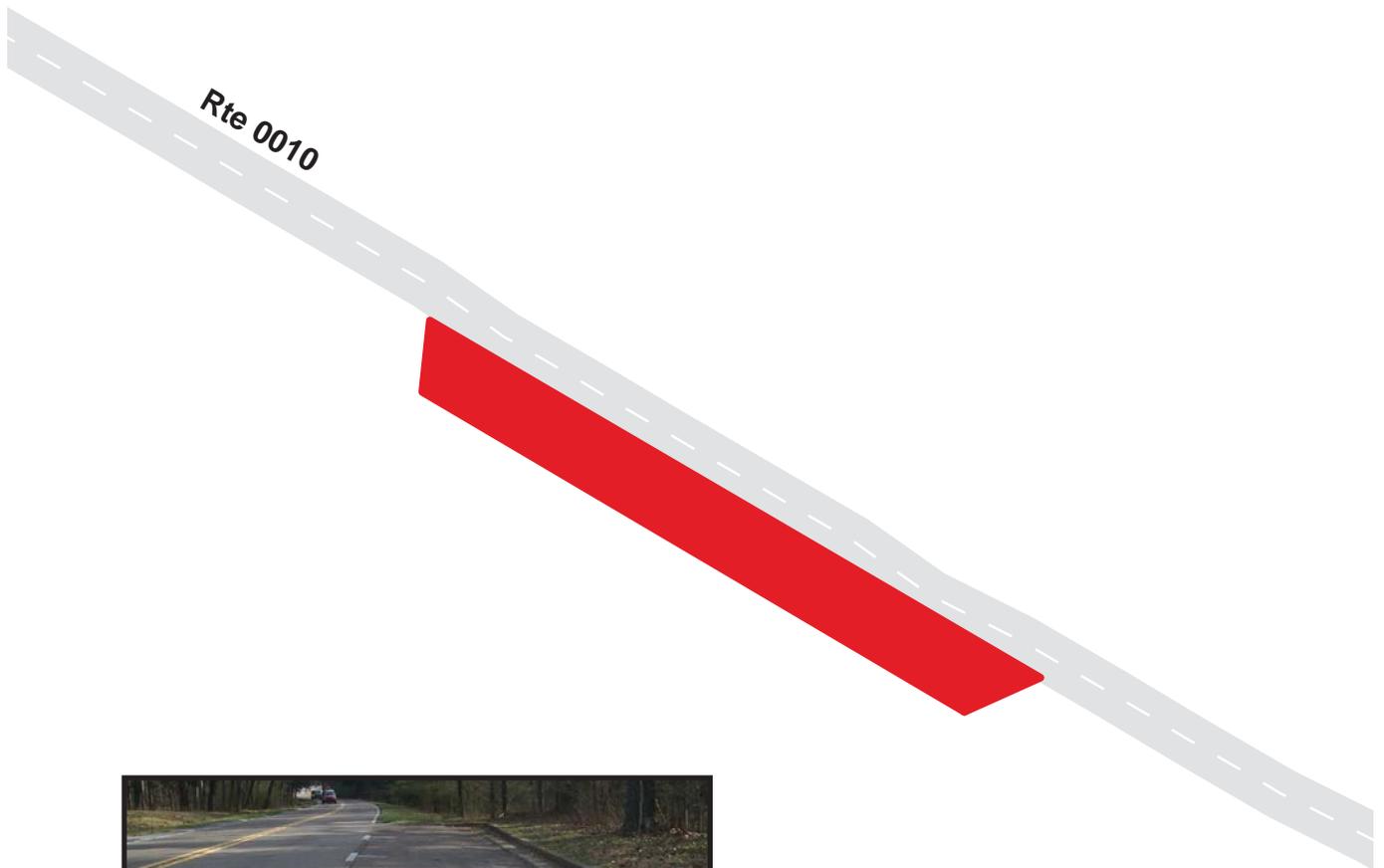
Chickamauga & Chattanooga National Military Park

Route 0905

Illinois Monument Parking Area
Parking Area off Route 0010 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	Public	1/22/2002	1225	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

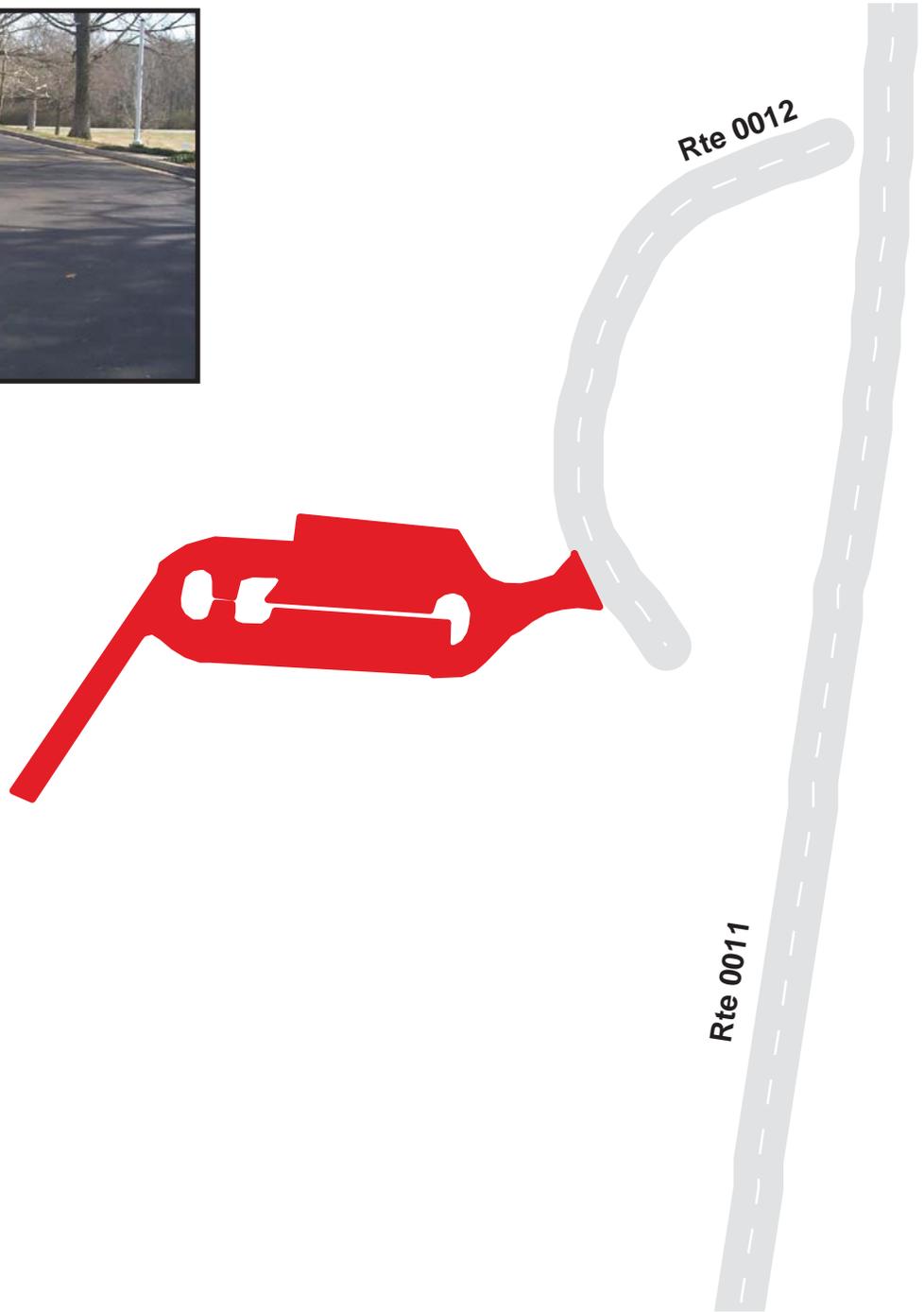
Route 0906

Visitor Center Parking

From Route 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	1/22/2002	15777	0.27	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

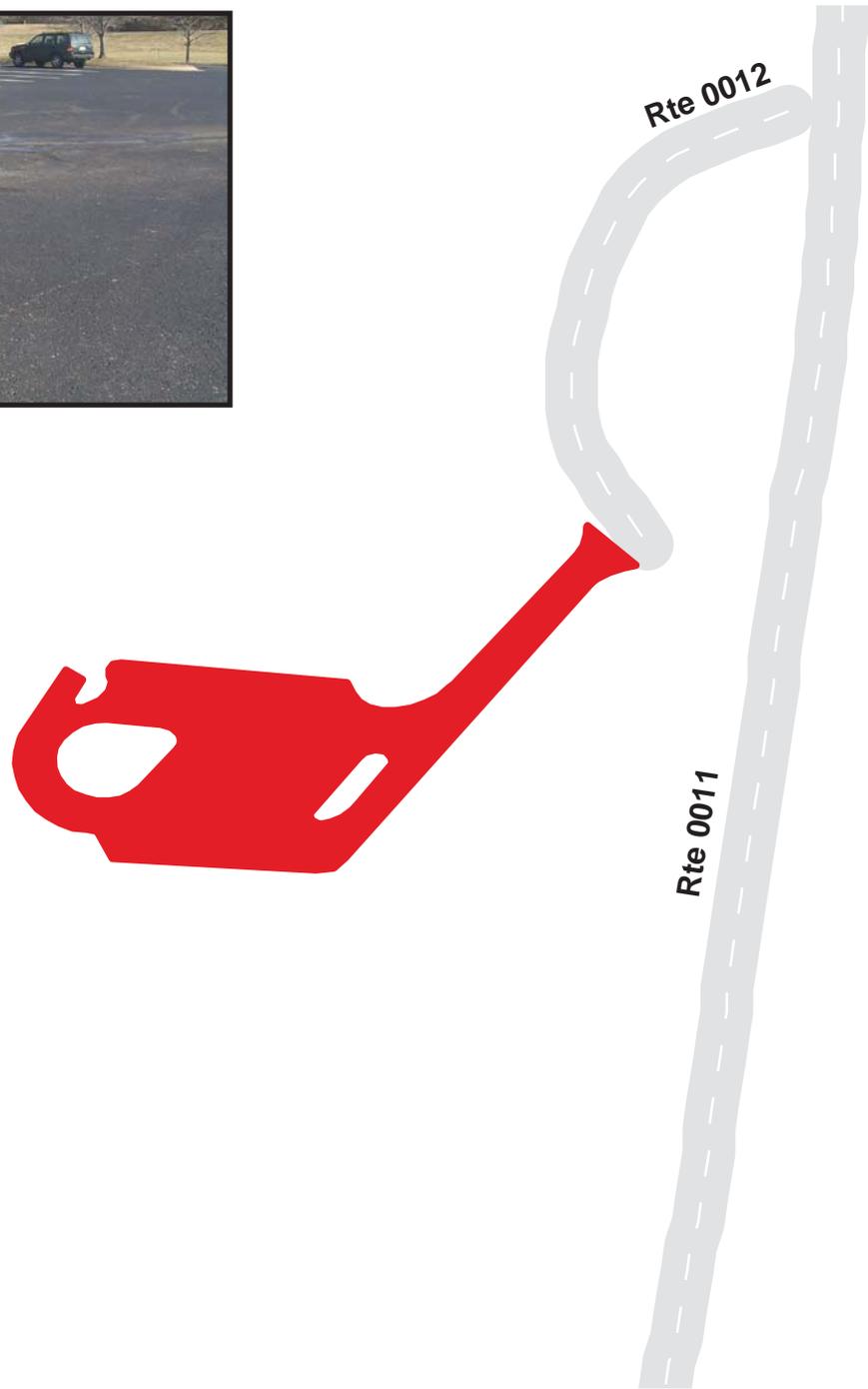
Route 0907

Visitor Center Overflow Parking

From Route 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	1/22/2002	31123	0.54	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

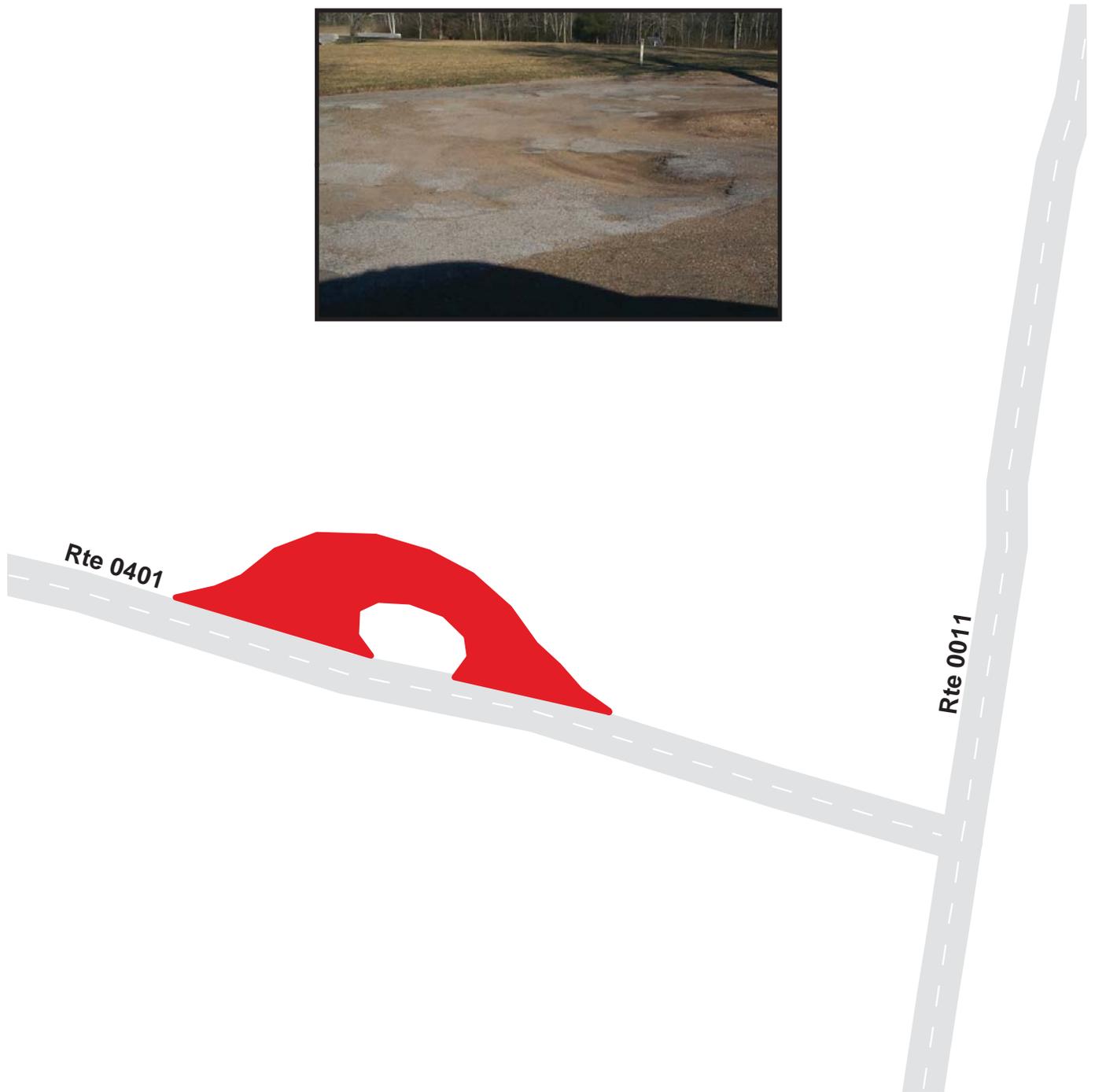
Route 0908

Turnout

Intersection of Route 0011 and Route 0401

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	1/22/2002	1678	0.03	AS	POOR / 45

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

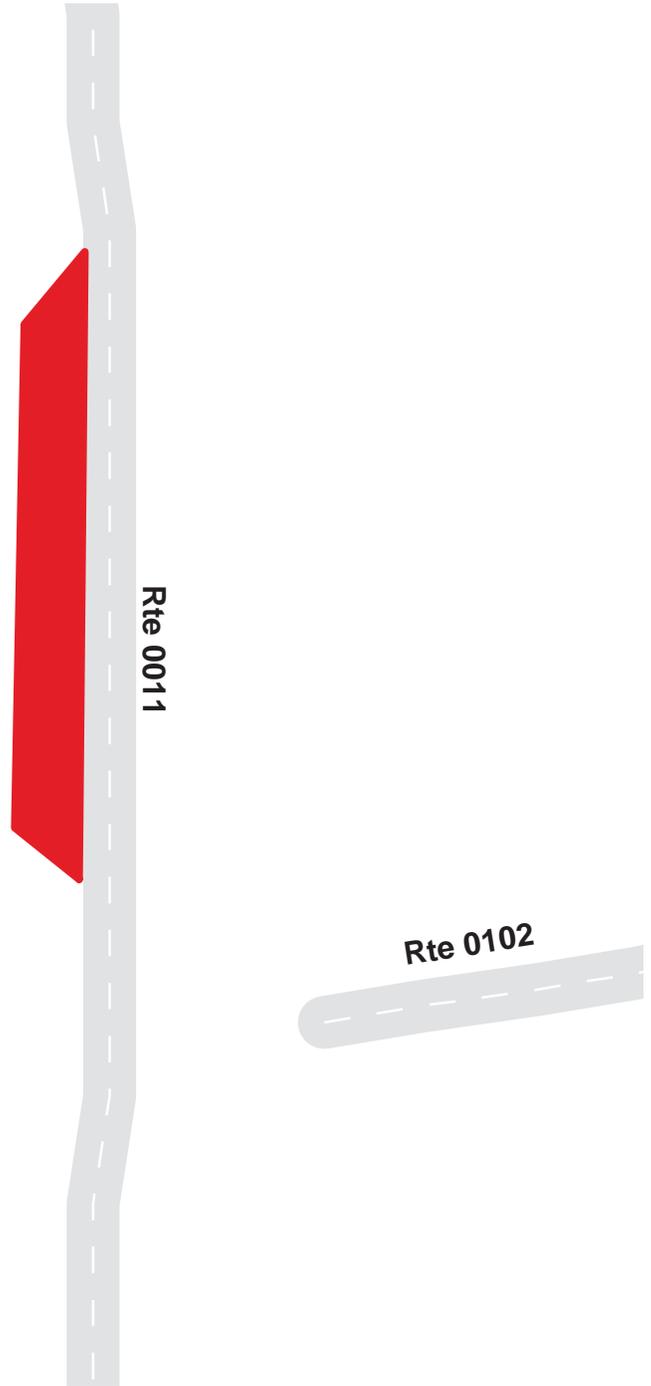
Route 0909

Brotherton Cabin Parking Area

Adjacent To Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	1/22/2002	823	0.01	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0910

Kentucky Monument Parking Area

Adjacent To Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	Public	1/22/2002	1518	0.03	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

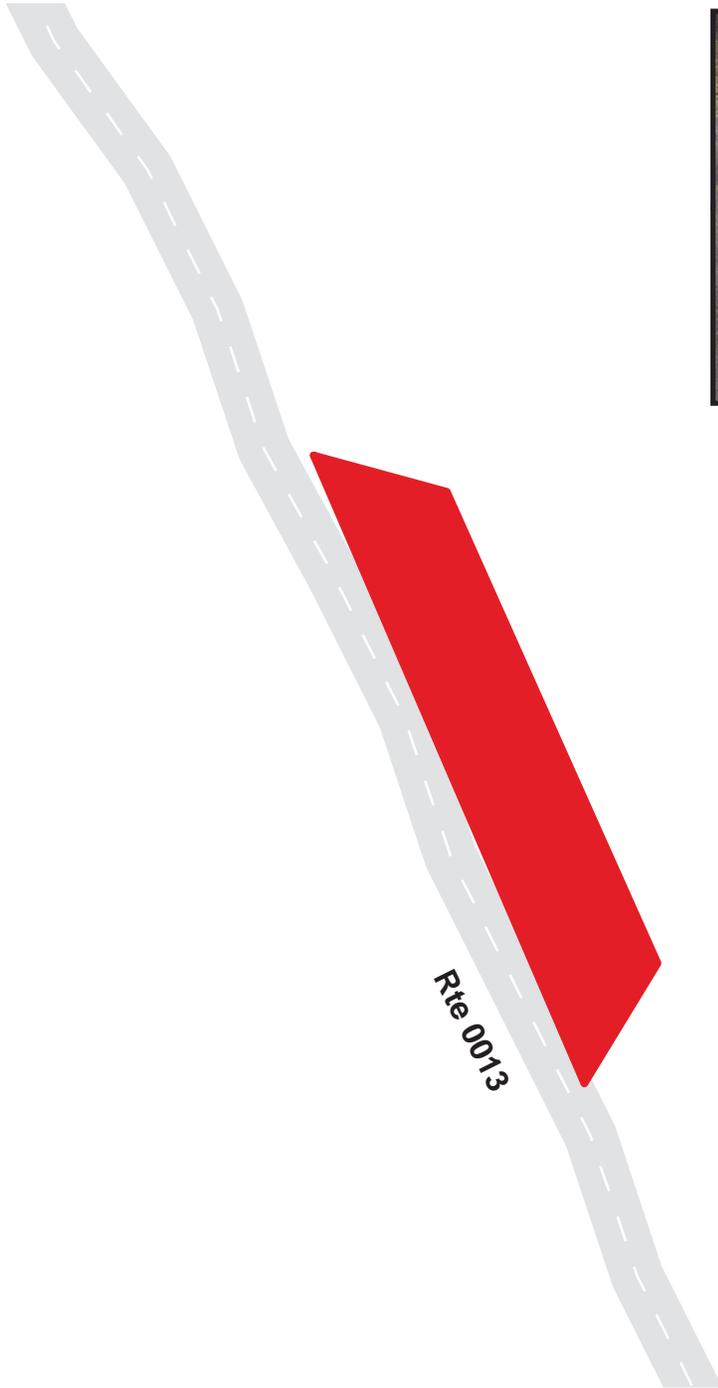
Route 0911

Georgia Monument Parking Area

Adjacent To Route 0013 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	1/22/2002	781	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

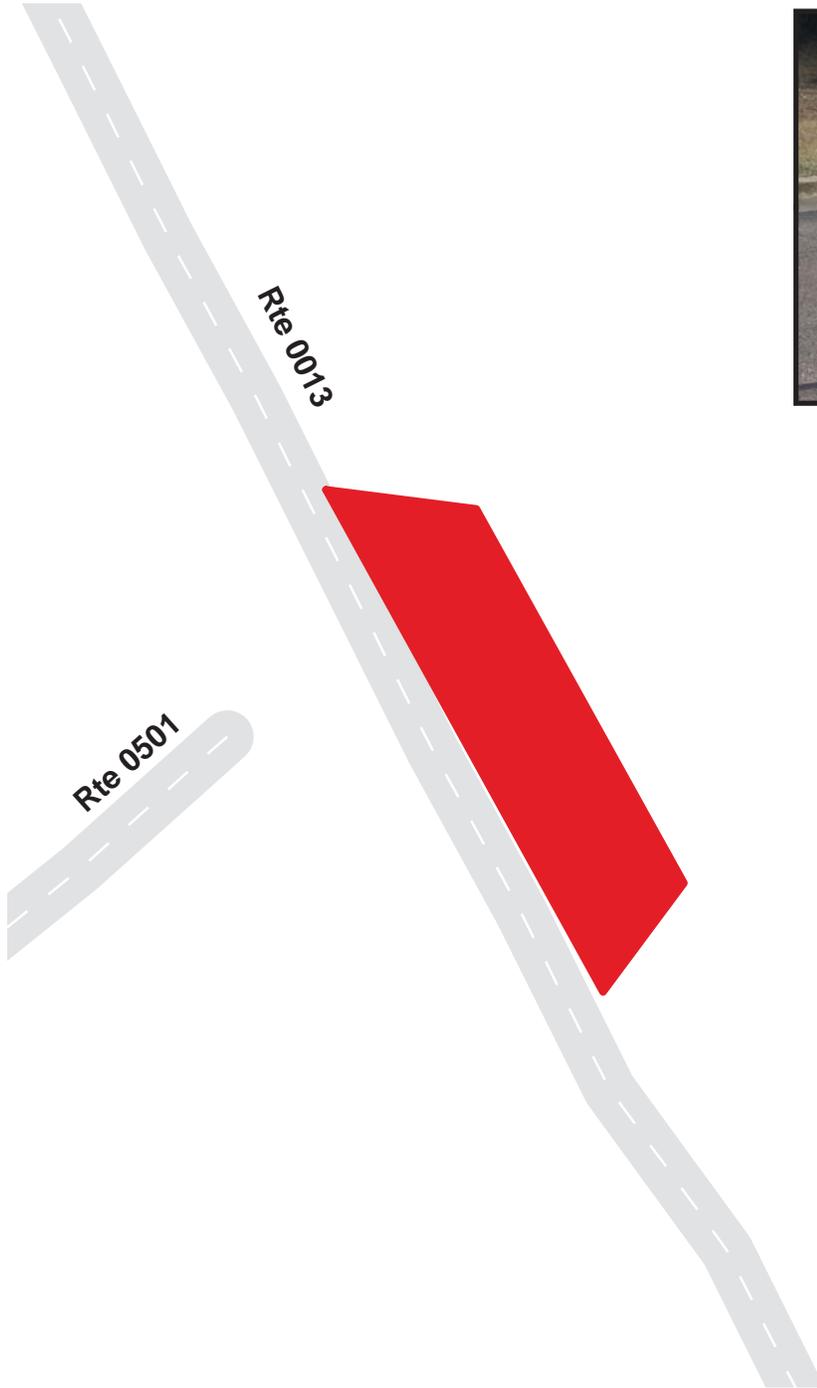
Route 0912

Helm/Colquitt Monuments Parking

Adjacent To Route 0013 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	1/22/2002	453	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



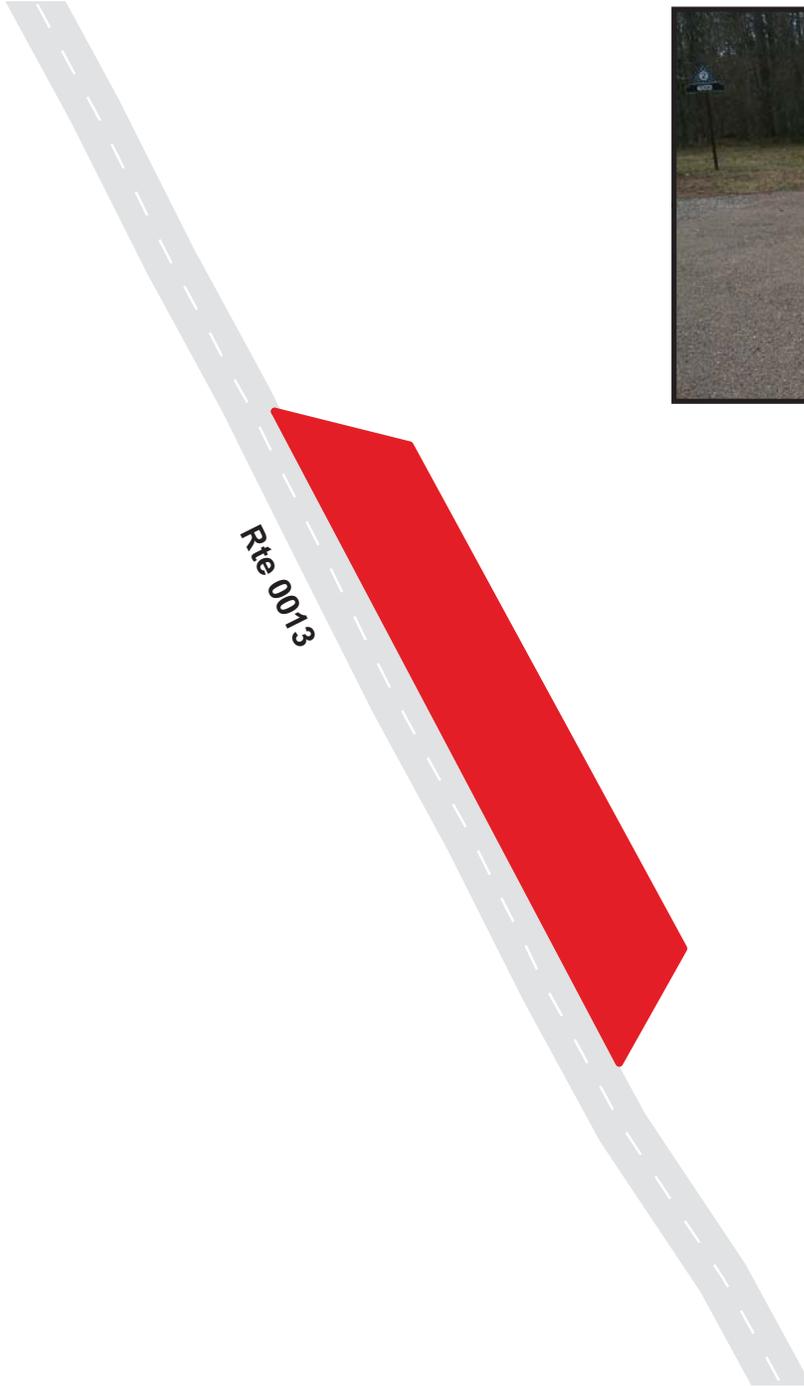
Chickamauga & Chattanooga National Military Park

Route 0913

Parking Area
Adjacent To Route 0013 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	1/22/2002	705	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

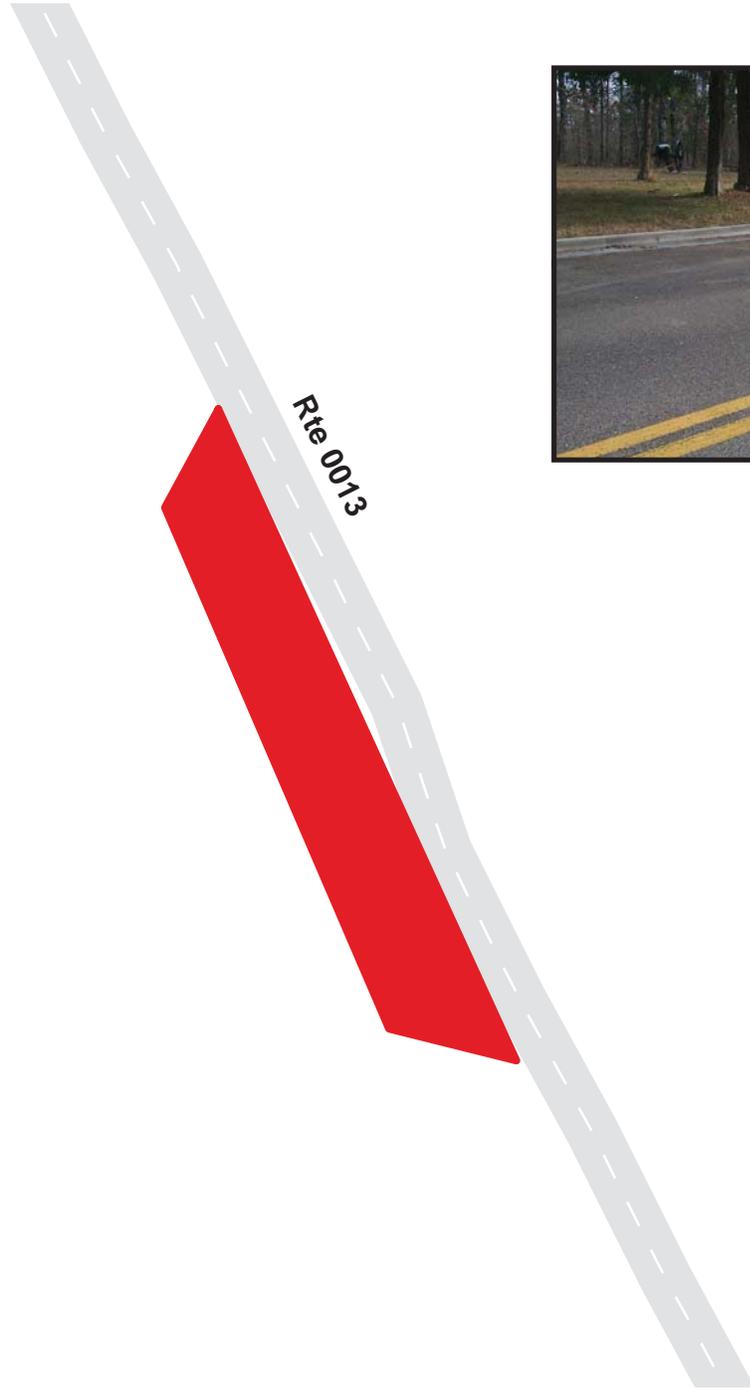
Route 0914

Semple's Alabama Battery Parking Area

Adjacent To Route 0013 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	Public	1/22/2002	663	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



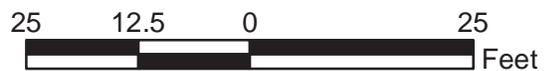
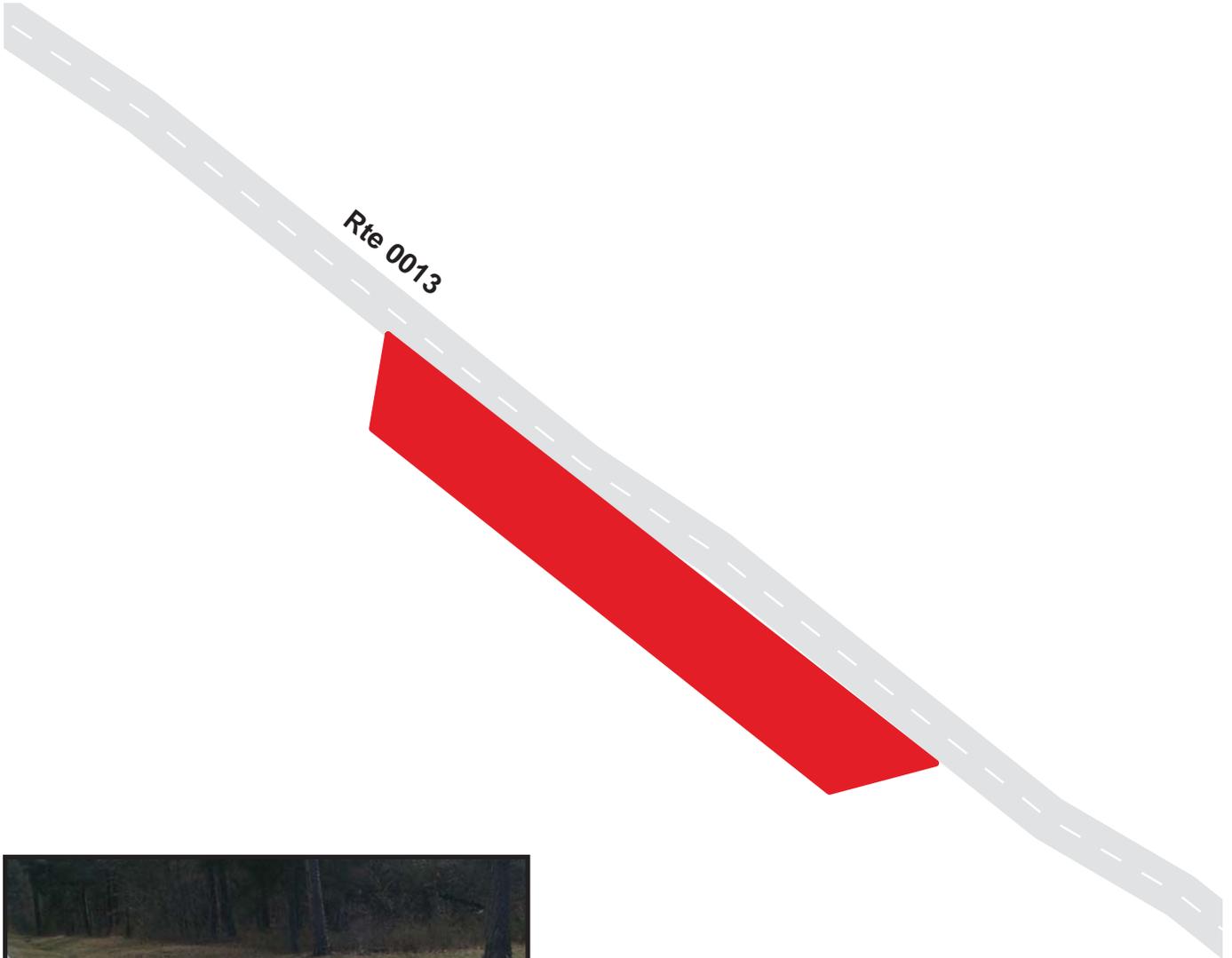
Chickamauga & Chattanooga National Military Park

Route 0915

Cost Of Chickamauga Interpretive Trail Parking
Adjacent To Route 0013 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	1/22/2002	715	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



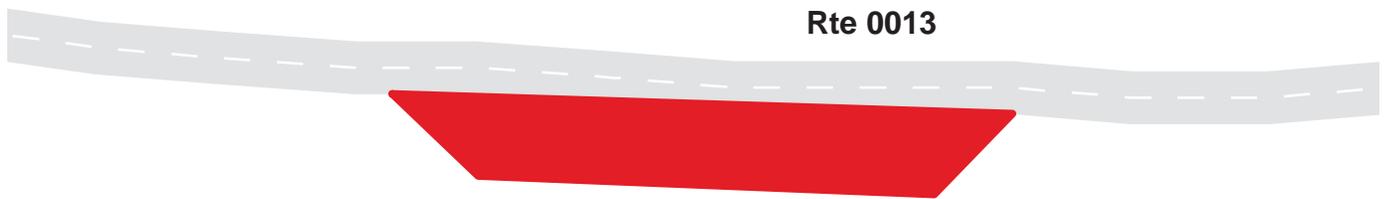
Chickamauga & Chattanooga National Military Park

Route 0916

Smith Monument Parking
Adjacent To Route 0013 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	Public	1/22/2002	707	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

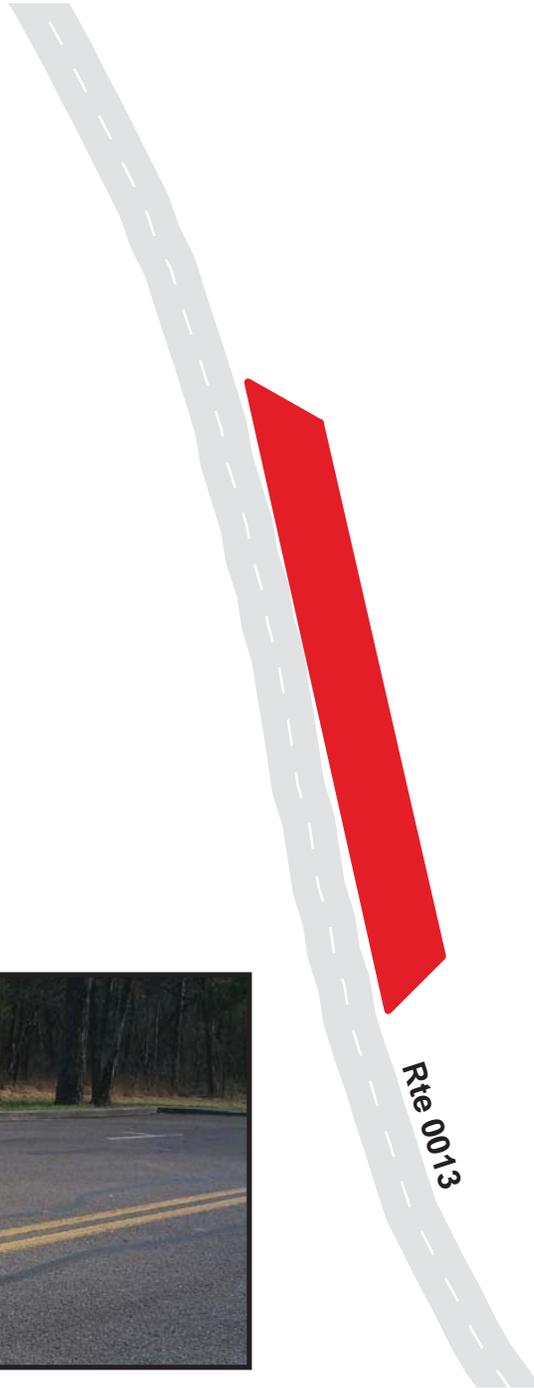
Route 0917

Trail Parking

Adjacent To Route 0013 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	Public	1/22/2002	9107	0.16	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

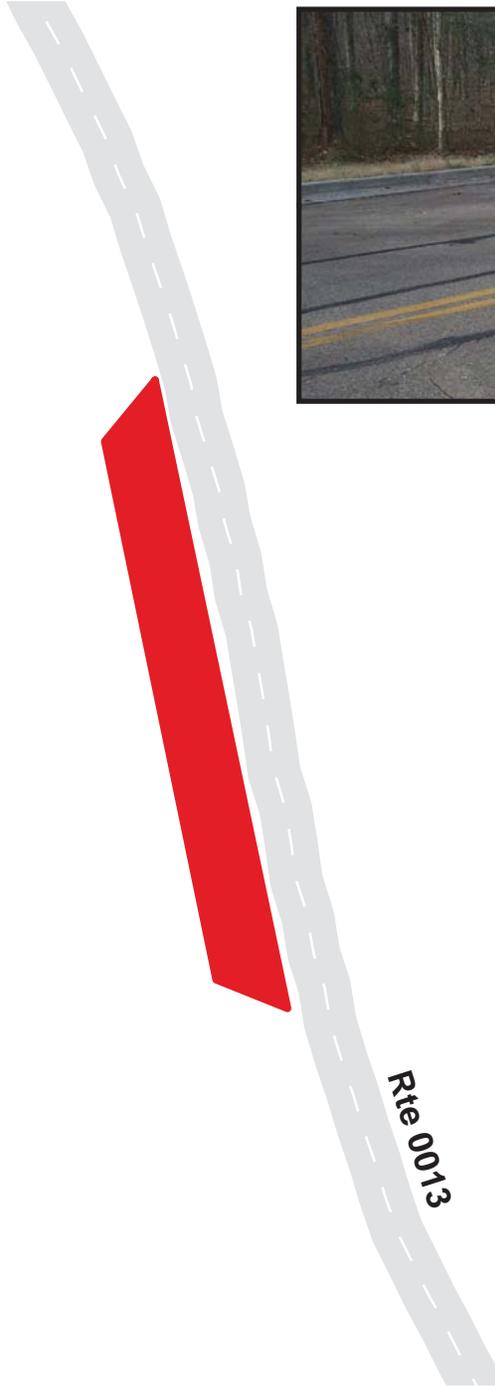
Route 0918

Trail Parking

Adjacent To Route 0013 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918	Public	1/22/2002	7716	0.13	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

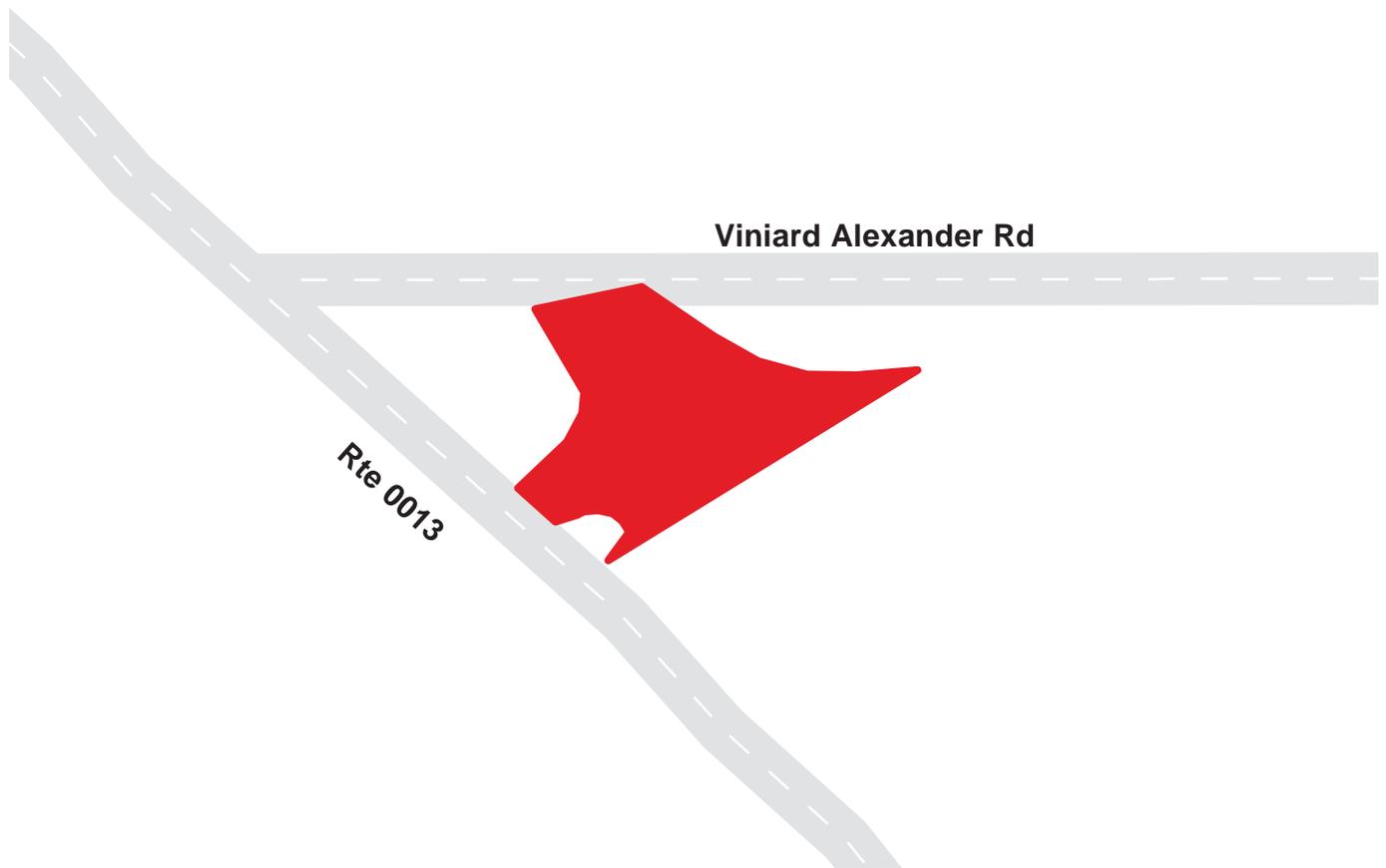
Route 0919

Parking Area

Adjacent To Route 0013 across from Viniard Alexander Road

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	1/22/2002	487	0.01	OC	FAIR / 73

* Lane miles are based on 11' lane widths



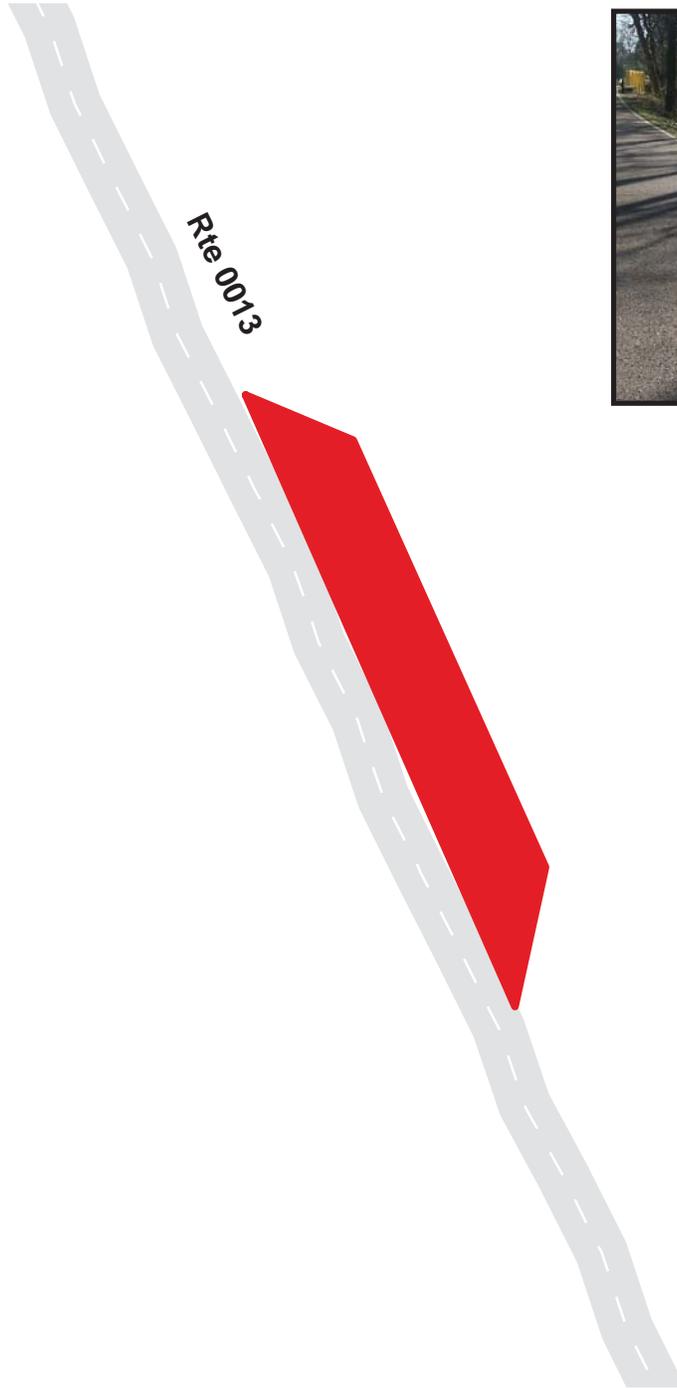
Chickamauga & Chattanooga National Military Park

Route 0920

Alexander Bridge Parking
At Alexander Bridge on Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920	Public	1/22/2002	1803	0.03	OC	GOOD / 90

* Lane miles are based on 11' lane widths



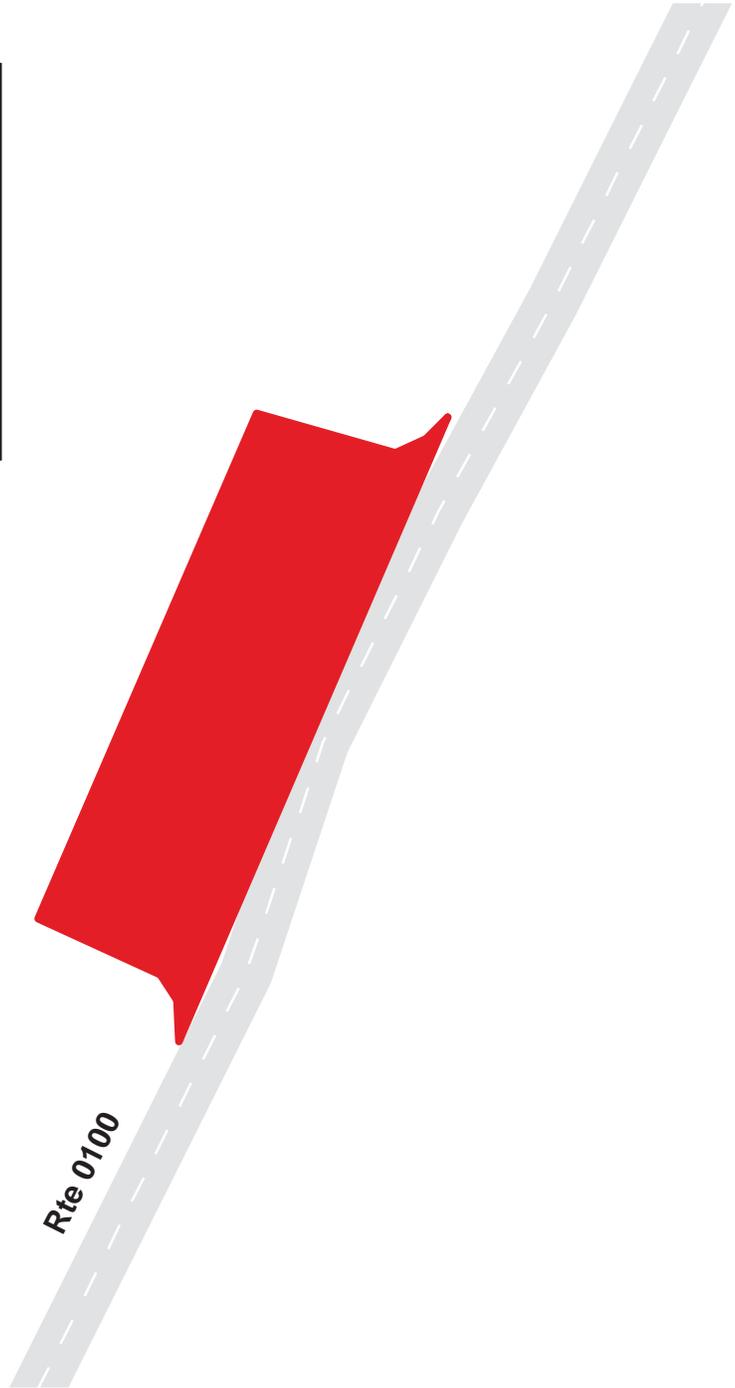
Chickamauga & Chattanooga National Military Park

Route 0921

Parking Area at Confederate's Creek Crossing
Adjacent To Route 0100 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921	Public	1/22/2002	438	0.01	OC	FAIR / 73

* Lane miles are based on 11' lane widths



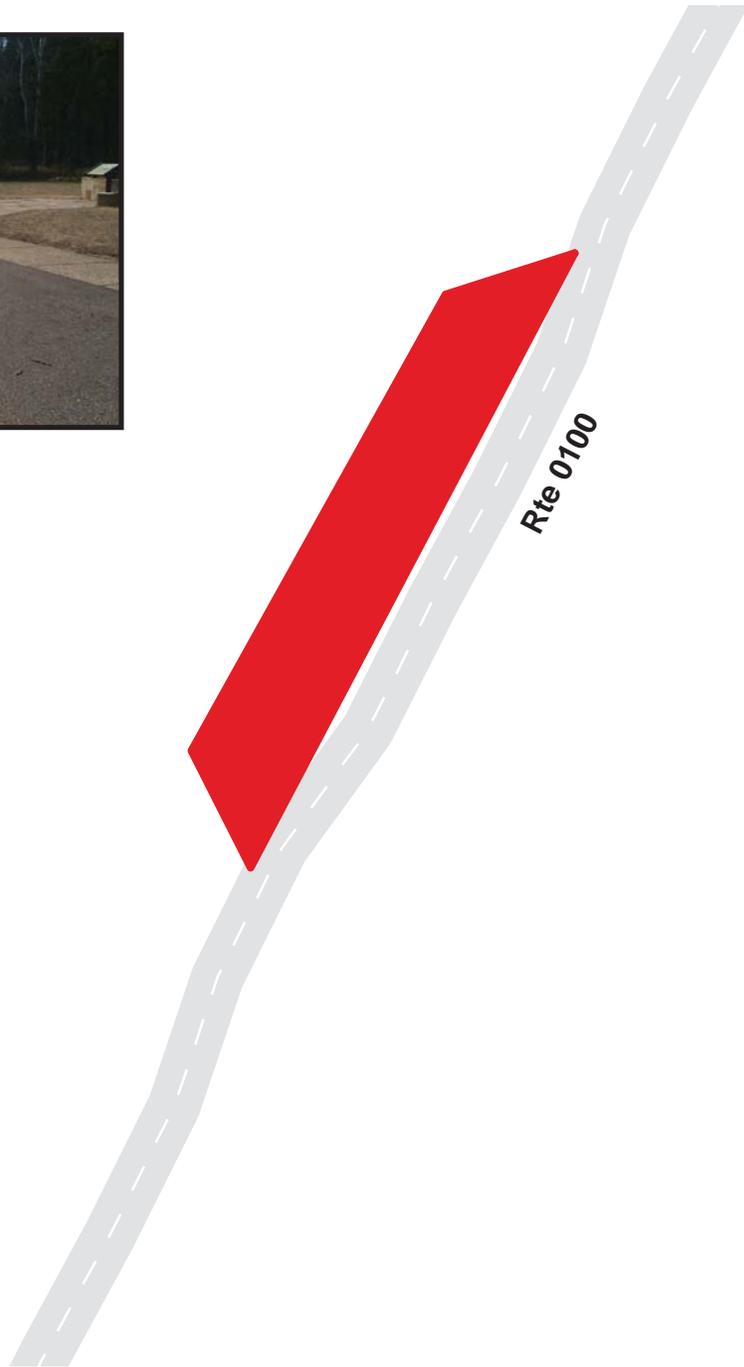
Chickamauga & Chattanooga National Military Park

Route 0922

Jay's Mill Parking Area
Adjacent To Route 0100 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922	Public	1/22/2002	841	0.01	OC	FAIR / 73

* Lane miles are based on 11' lane widths



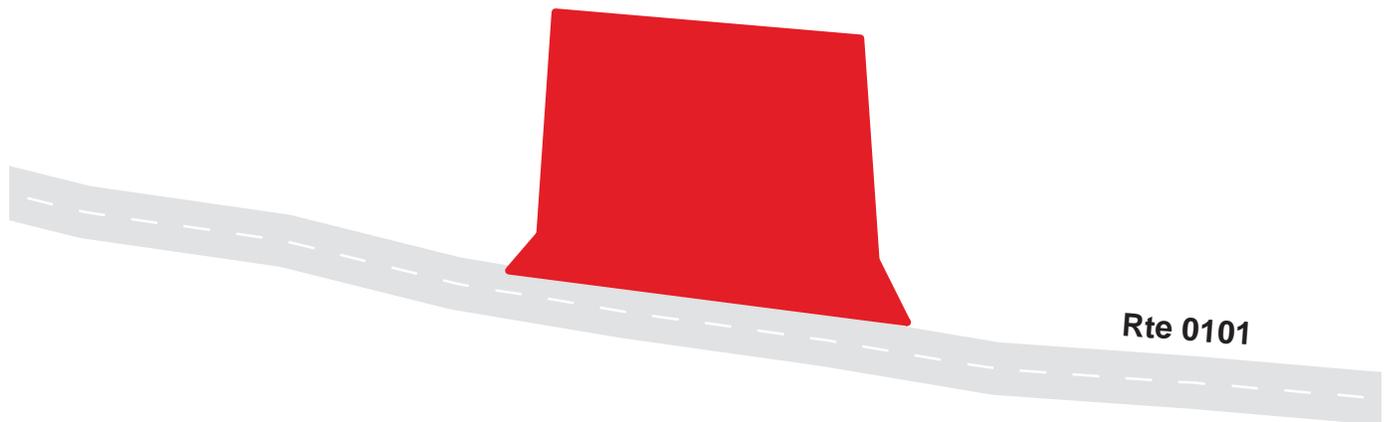
Chickamauga & Chattanooga National Military Park

Route 0923

Dyer House Parking Area
Adjacent To Route 0101 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923	Public	1/22/2002	699	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

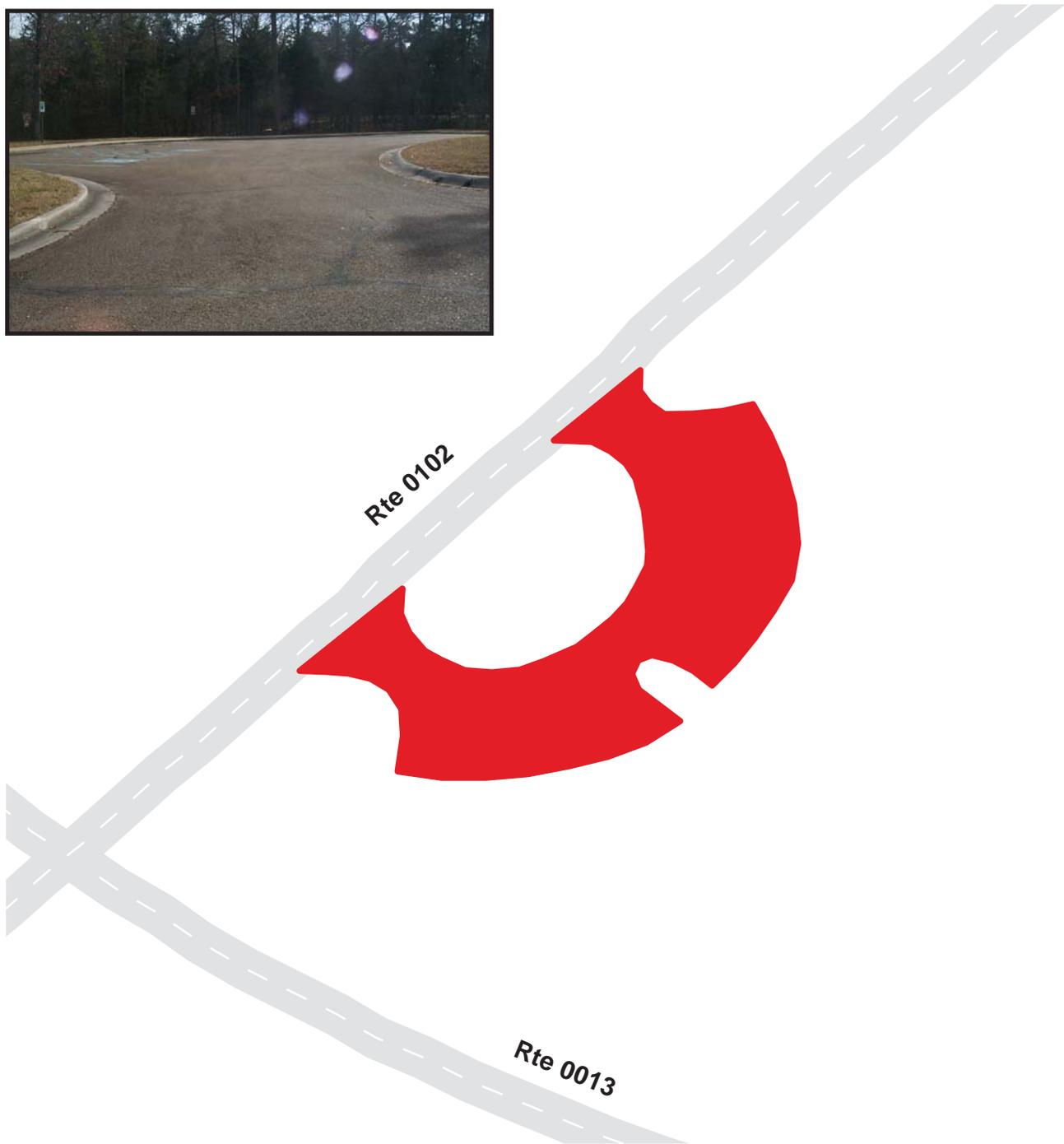
Route 0924

Picnic Area

Adjacent To Route 0102 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0924	Public	1/22/2002	7910	0.14	OC	FAIR / 73

* Lane miles are based on 11' lane widths



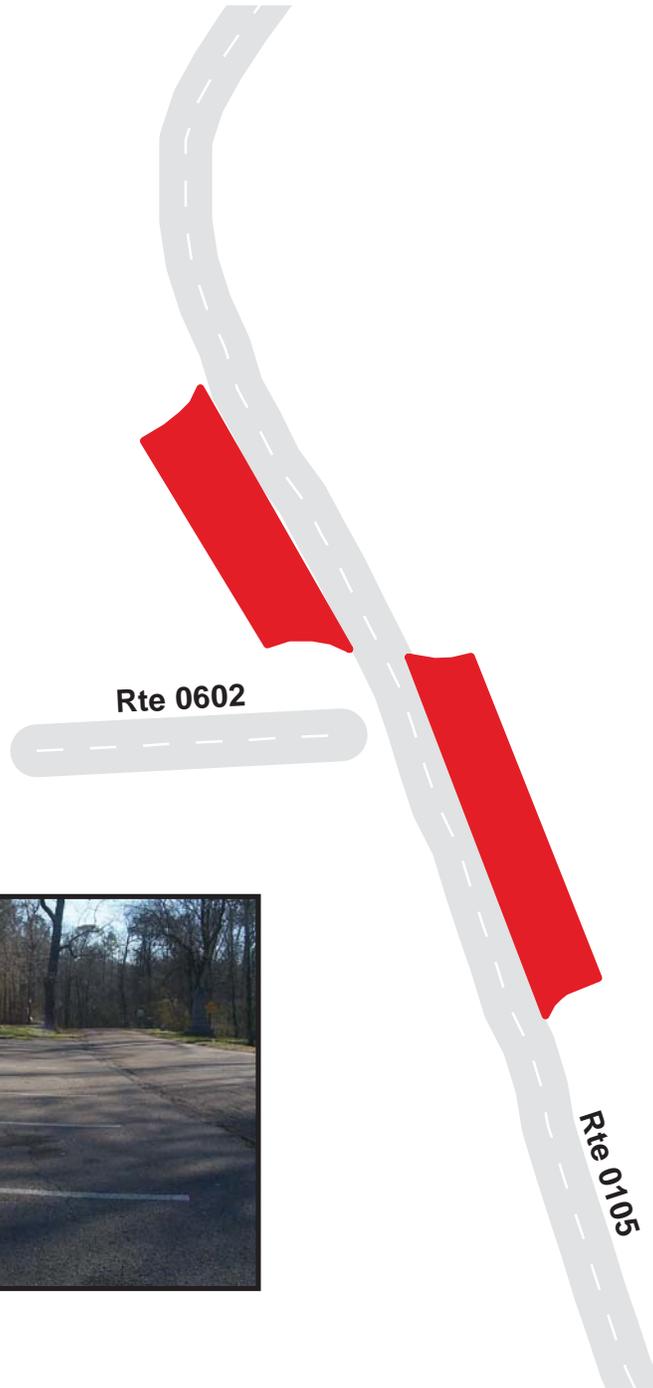
Chickamauga & Chattanooga National Military Park

Route 0925

Wilder Brigade Monument Parking
Adjacent To Route 0105 on Right and Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925	Public	1/22/2002	6095	0.10	OC	FAIR / 73

* Lane miles are based on 11' lane widths



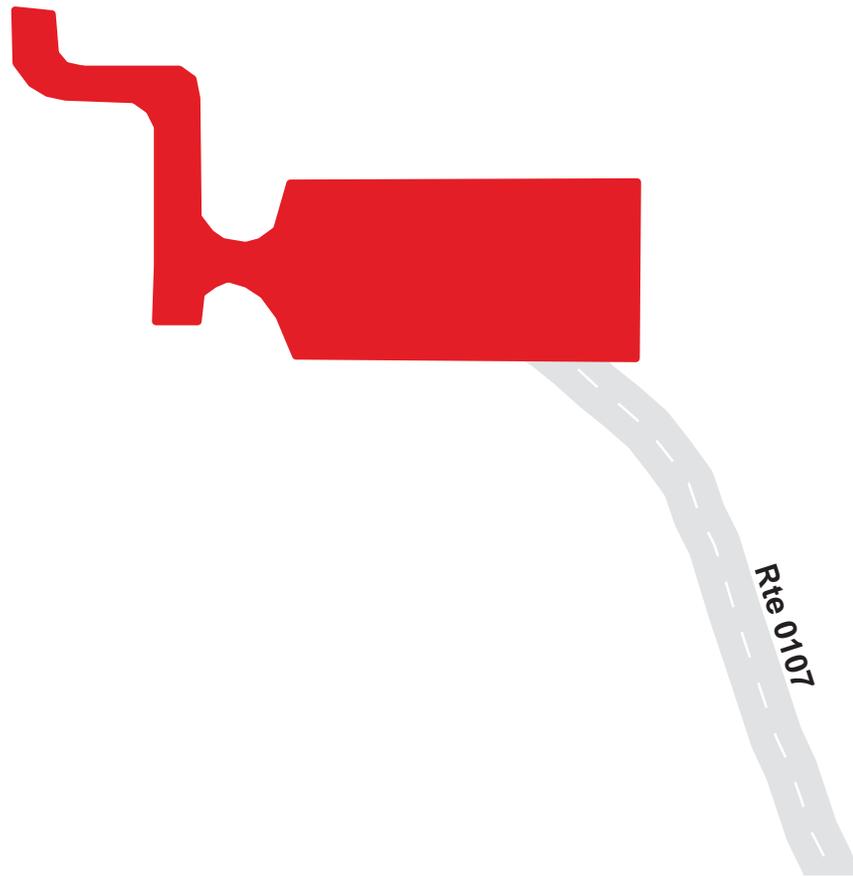
Chickamauga & Chattanooga National Military Park

Route 0926

Cravens House Parking
Adjacent To Route 0107 at House

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0926	Public	1/22/2002	19836	0.34	AS	FAIR / 73

* Lane miles are based on 11' lane widths



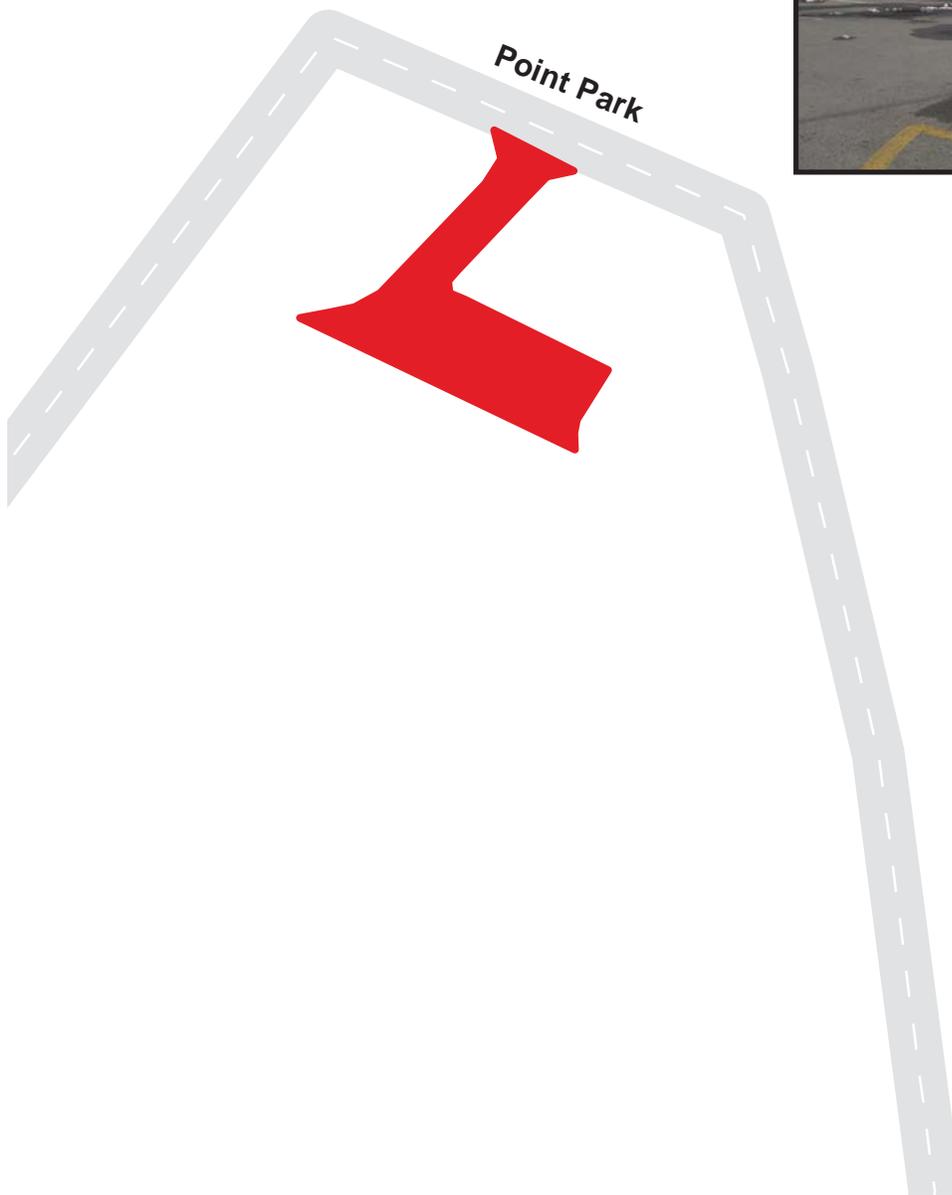
Chickamauga & Chattanooga National Military Park

Route 0927

Point Park Visitor Center Parking
Adjacent To Point Park Visitor Center

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0927	Public	1/22/2002	11568	0.20	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0928

Snodgrass Cabin Parking

Adjacent To Route 0112 at Snodgrass Cabin

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0928	Public	1/22/2002	5649	0.10	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0929

Snodgrass Hill Parking
Adjacent To Route 0112 at Tour Stop 8, Snodgrass Hill

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929	Public	1/22/2002	3191	0.05	OC	GOOD / 90

* Lane miles are based on 11' lane widths



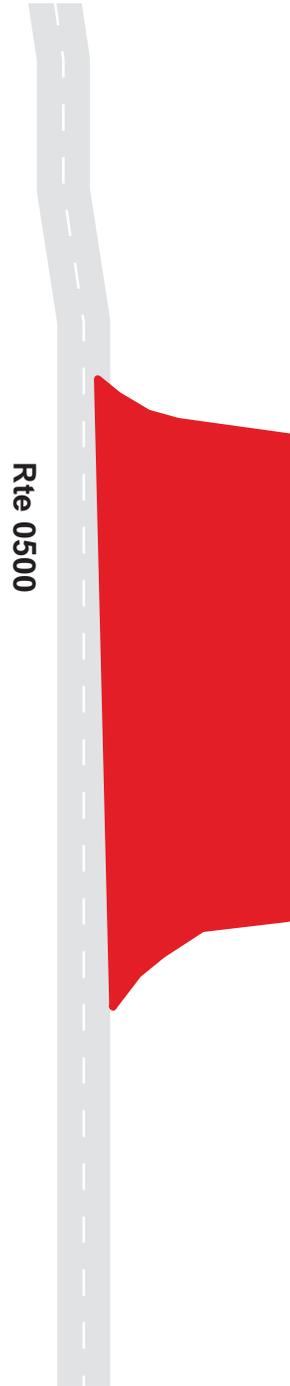
Chickamauga & Chattanooga National Military Park

Route 0930

Retreat Of The Union Right Parking
 Adjacent To Route 0500 at Tour Stop 7

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0930	Public	1/22/2002	1502	0.03	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

Route 0931

Parking Area

Adjacent To Route 0500 at intersection of Glenn-Kelly and Dyer Road

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931	Public	1/22/2002	1874	0.03	OC	GOOD / 90

* Lane miles are based on 11' lane widths



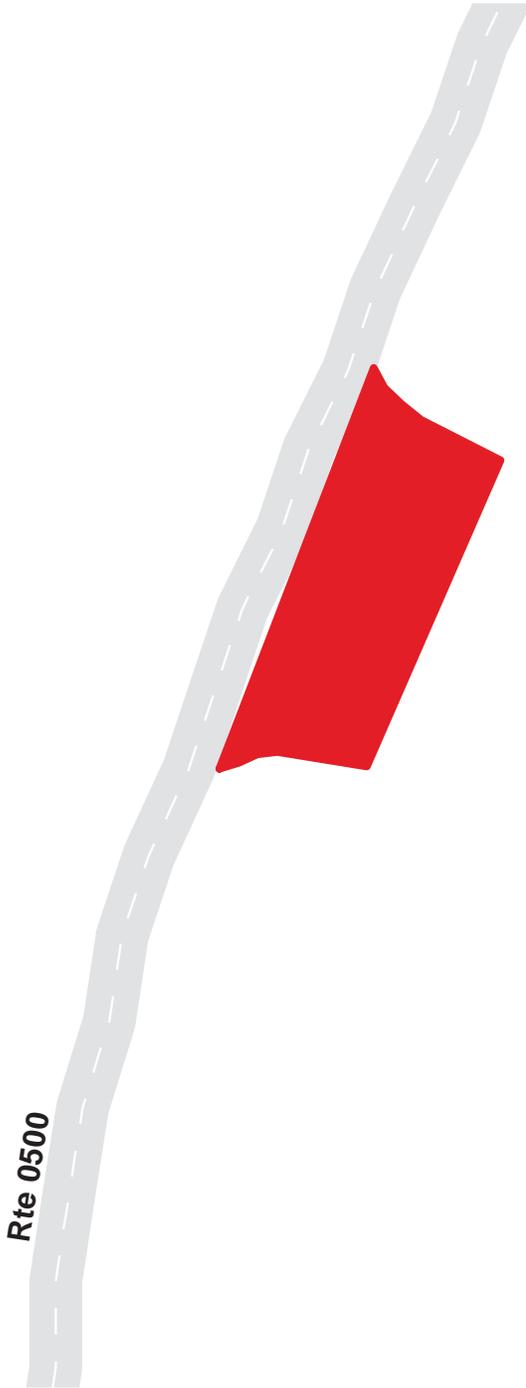
Chickamauga & Chattanooga National Military Park

Route 0932

South Carolina Monument Parking
Adjacent To Route 0500 at South Carolina Monument

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0932	Public	1/22/2002	1000	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

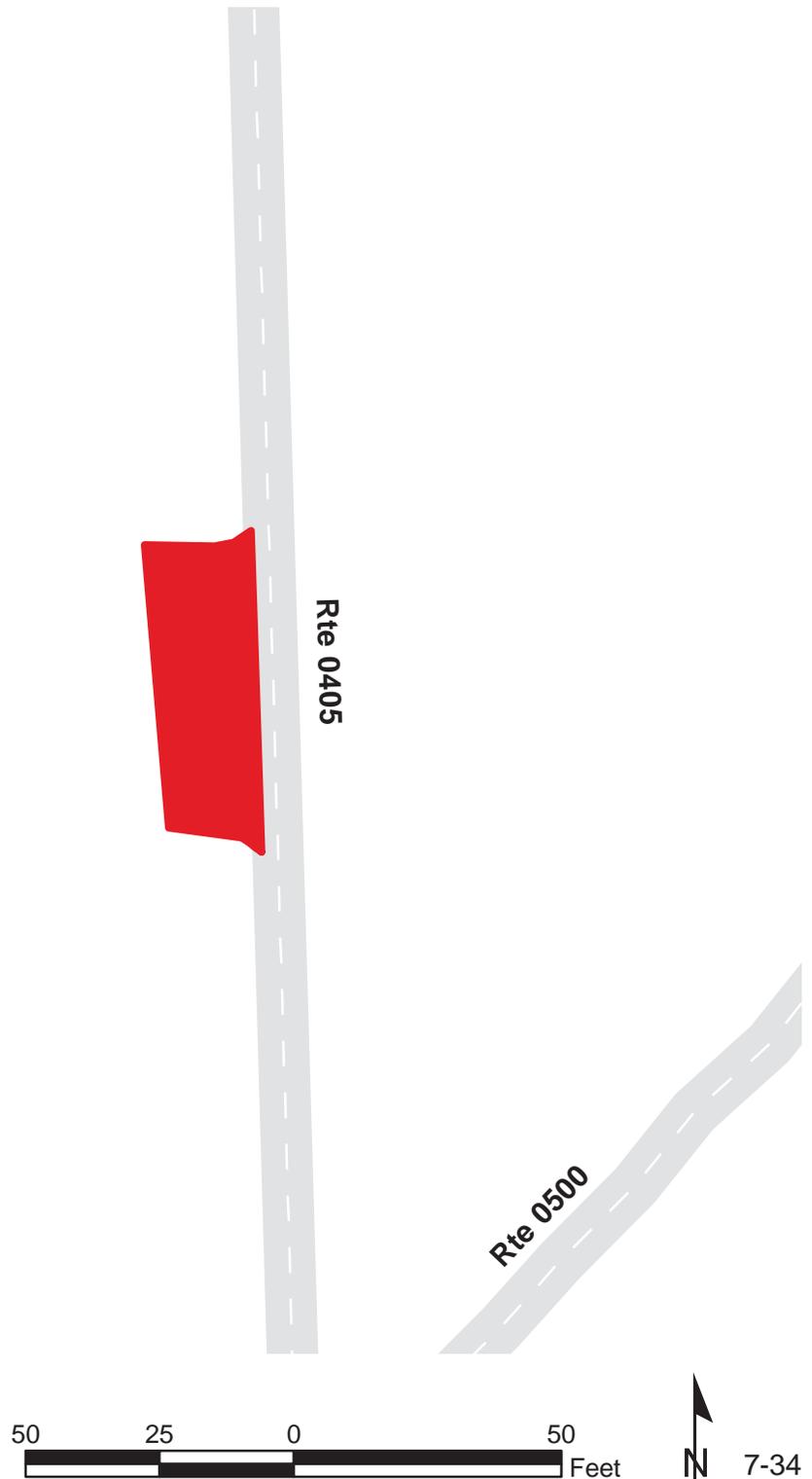
Route 0933

South Post Parking

Adjacent To Route 0500 and Route 0405

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0933	Public	1/22/2002	826	0.01	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

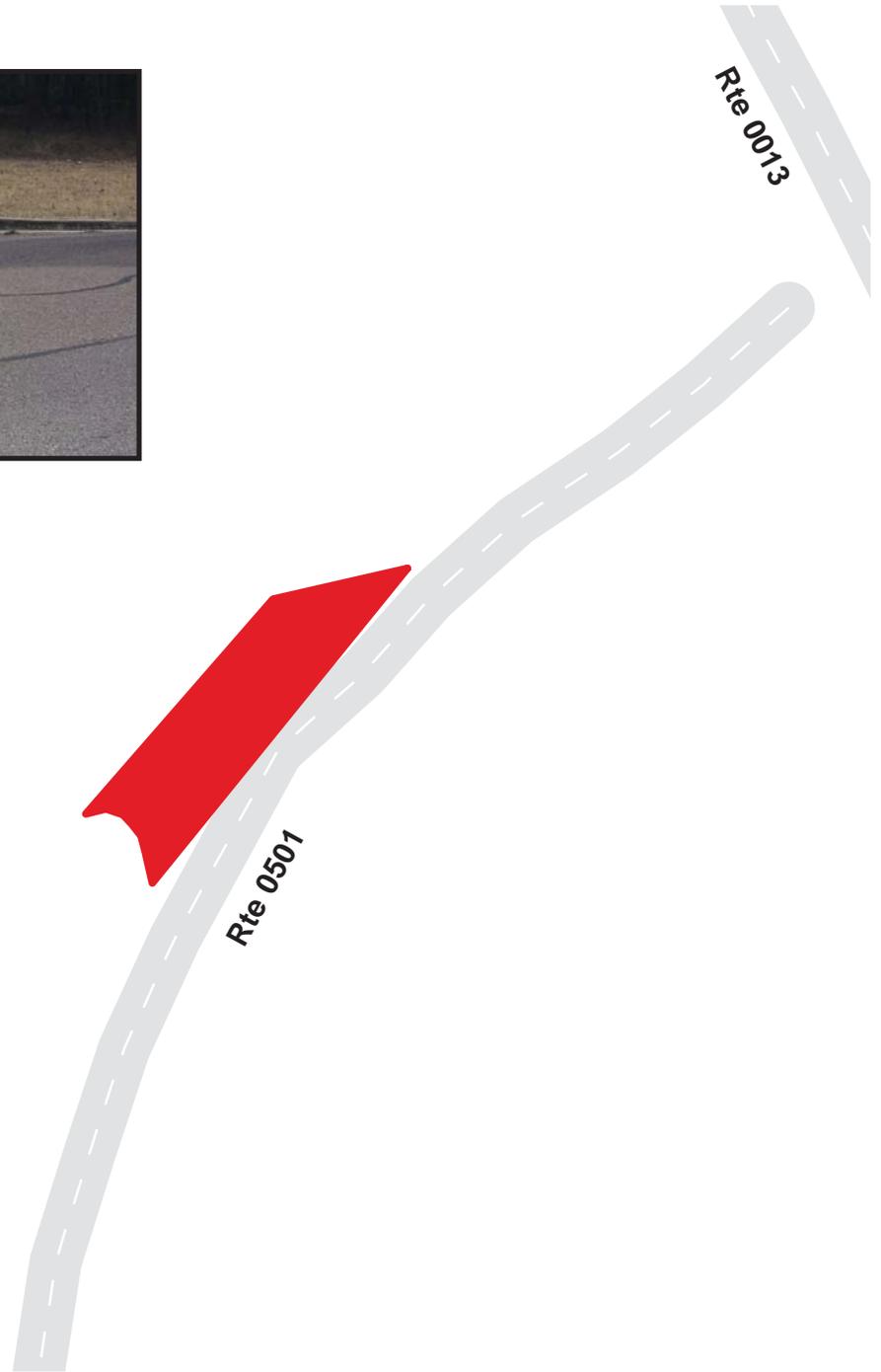
Route 0934

Tour Stop 2 Parking

Adjacent To Route 0501 at the Battle Line Monument, Tour Stop 2

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0934	Public	1/22/2002	639	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

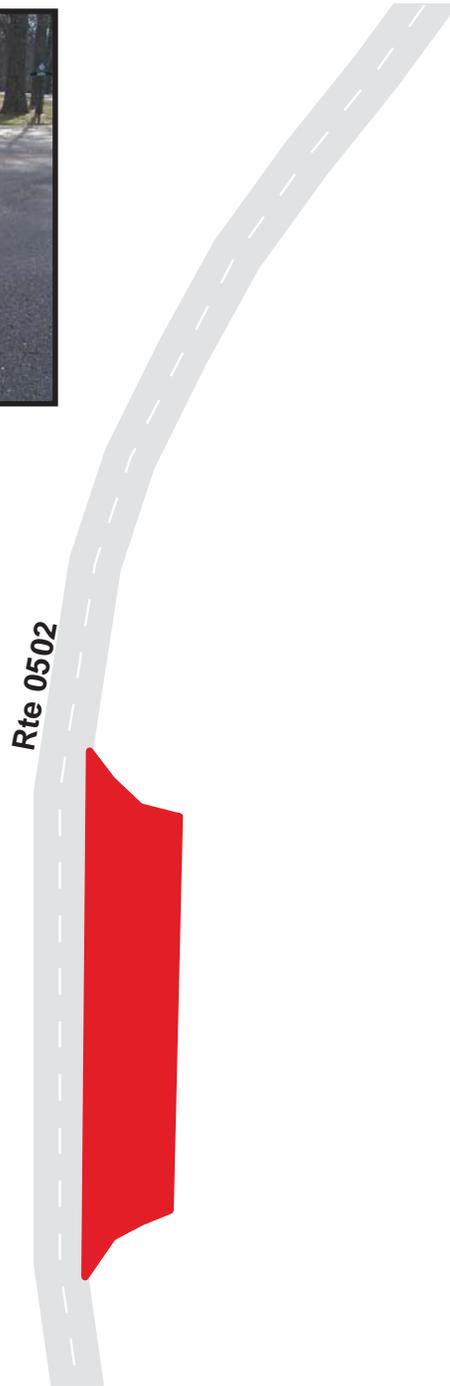
Route 0935

Tour Stop 3 Parking

Adjacent To Route 0502 at Mix up in Union Command Monument, Tour Stop 3

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0935	Public	1/22/2002	777	0.01	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

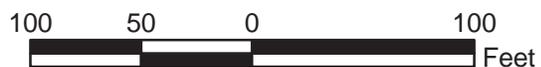
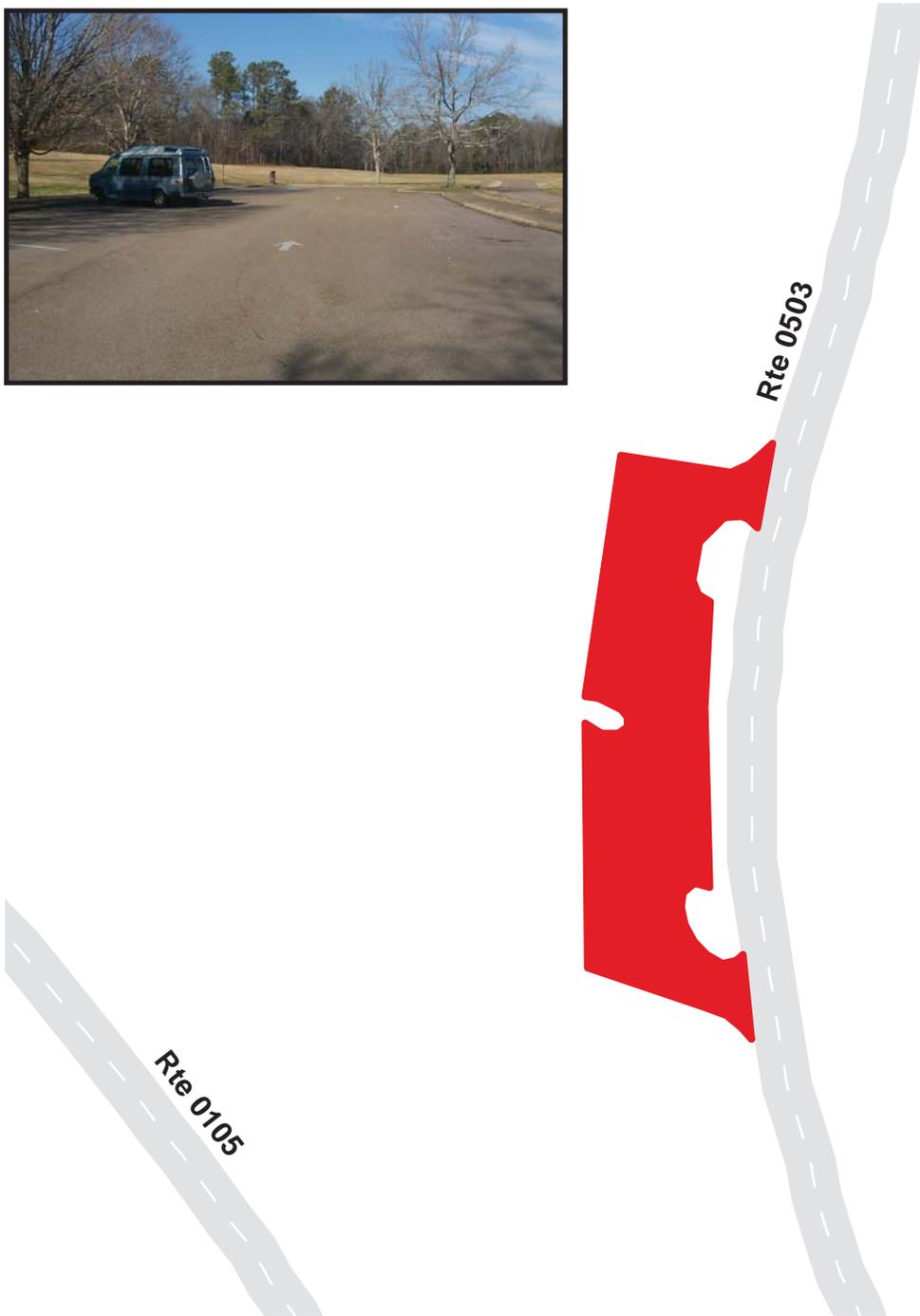
Route 0936

Tour Stop 6 Parking

Adjacent To Route 0503 at Wilder Brigade Monument, Tour Stop 6

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0936	Public	1/22/2002	11501	0.20	OC	GOOD / 90

* Lane miles are based on 11' lane widths



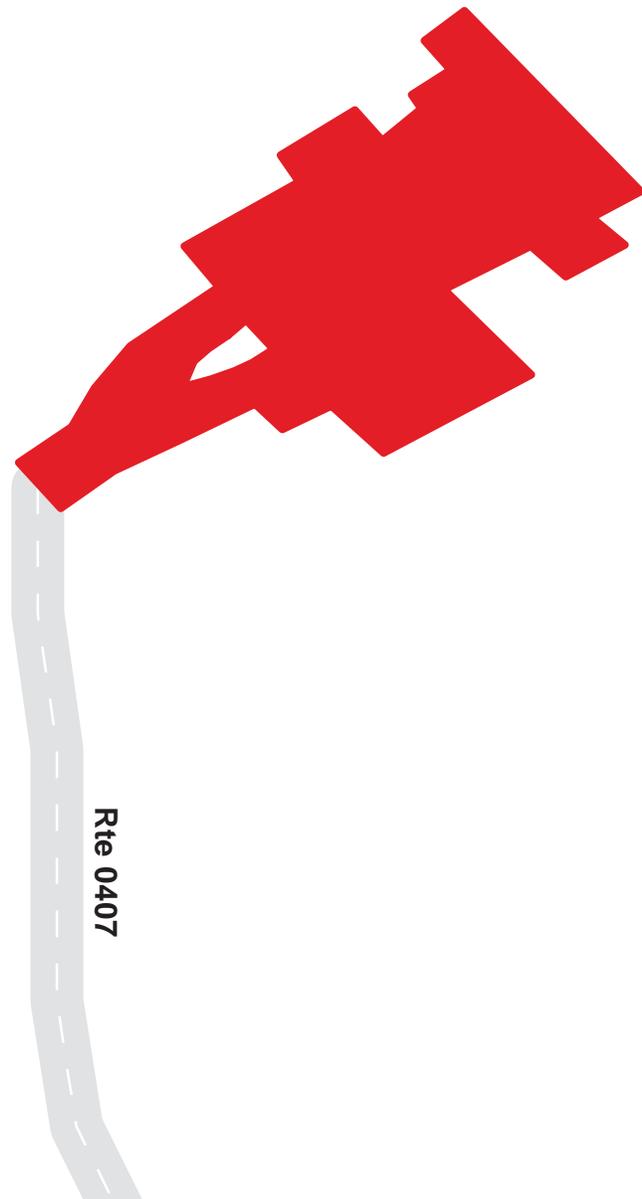
Chickamauga & Chattanooga National Military Park

Route 0937

Maintenance Yard
Adjacent To Route 0407

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0937	Public	1/22/2002	1999	0.03	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Chickamauga & Chattanooga National Military Park

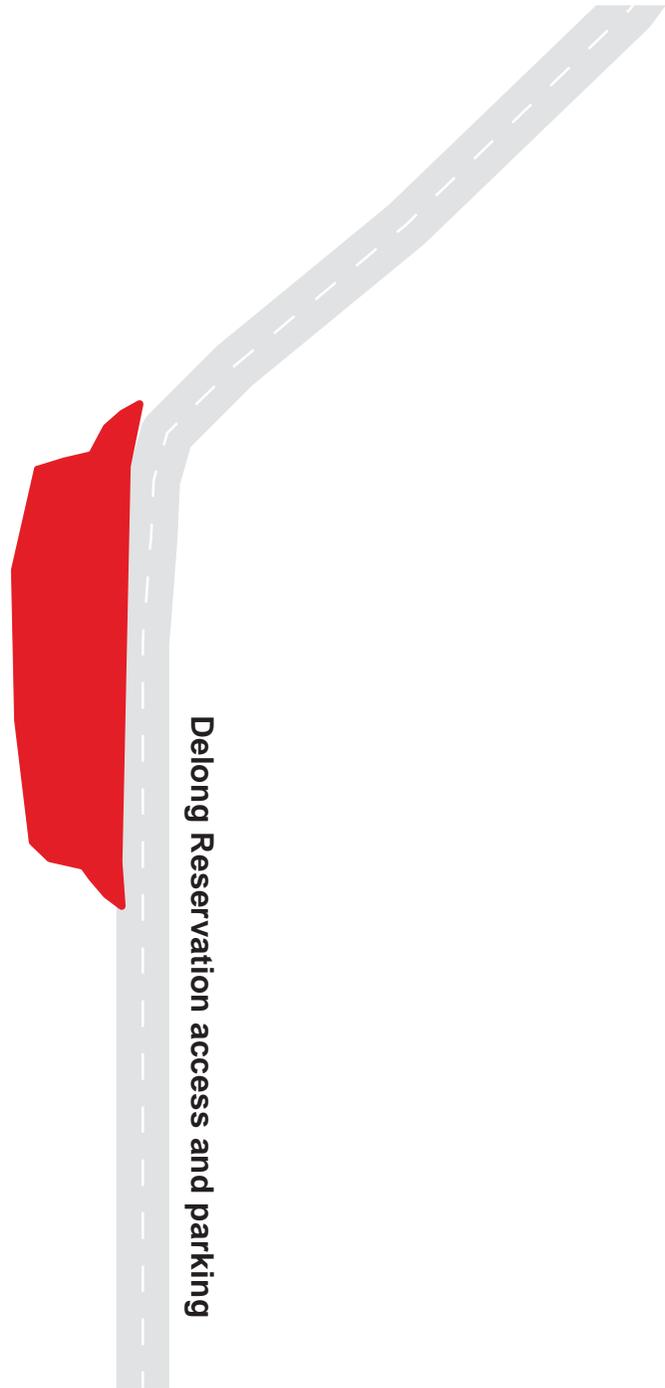
Route 0938

Delong Reservation

Delong Reservaton access and parking

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0938	Public	1/22/2002	3279	0.06	CO	FAIR / 73

* Lane miles are based on 44' lane widths



CHCH: PARKWIDE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>PARK TOTAL</i>	<i>UNIT</i>
BRIDGE	6	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	2,239	LINEAR FEET
DROP INLET	3	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	1,906	LINEAR FEET
INTERSECTION	217	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	243	LINEAR FEET
PULLOUT	27	EACH
RAILROAD CROSSING	1	EACH
RETAINING WALL	1	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	2	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

CHCH: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0010 MCFARIAND REEDS ROAD</i>	<i>ROUTE 0011 LAFAYETTE ROAD</i>	<i>ROUTE 0012 VISITOR CENTER ACCESS</i>	<i>ROUTE 0013 ALEXANDER BRIDGE ROAD</i>	<i>ROUTE 0013A ALEXANDER BRIDGE ROAD SPUR</i>	<i>ROUTE 0100 JAYS MILL ROAD</i>	<i>UNIT</i>
BRIDGE	1	2	0	1	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	444	100	180	771	0	0	LINEAR FEET
DROP INLET	1	0	0	1	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	1,183	0	0	533	0	0	LINEAR FEET
INTERSECTION	23	24	6	22	4	9	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	79	164	0	0	0	0	LINEAR FEET
PULLOUT	1	4	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	1	1	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

CHCH: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0101 DYER MILL ROAD</i>	<i>ROUTE 0102 BROBERTON ROAD</i>	<i>ROUTE 0103 ALEXANDER VINEYARD ROAD</i>	<i>ROUTE 0103A ALEXANDER VINEYARD ROAD SPUR</i>	<i>ROUTE 0104 VITTE TOE ROAD</i>	<i>ROUTE 0105 CHICK VITTE TOE ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	69	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	6	9	7	4	6	16	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	1	3	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

CHCH: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0106 SANDERS ROAD</i>	<i>ROUTE 0107 WILLMINGHAM ROAD</i>	<i>ROUTE 0112 SNODGRASS ROAD</i>	<i>ROUTE 0201 SANDERS PICNIC ROAD</i>	<i>ROUTE 0407 SAVANNAH SERVICE ROAD</i>	<i>ROUTE 0500 GLENN KELLEY ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	370	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	1	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	190	0	0	0	0	0	LINEAR FEET
INTERSECTION	7	8	10	10	8	14	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	1	0	0	0	4	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	1	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

CHCH: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0501 BATTLELINE ROAD</i>	<i>ROUTE 0502 POE ROAD</i>	<i>ROUTE 0503 GLEN VINEYARD ROAD</i>	<i>ROUTE 0600 DRY VALLEY ROAD</i>	<i>ROUTE 0601 LYTLE STATION ROAD</i>	<i>ROUTE 0602 TOWER ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	1	0	1	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	0	306	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	5	5	6	3	3	2	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	8	4	1	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	1	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MCFARLAND REEDS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT PARK BOUNDARY
0.006	0.006	INTERSECTION	LEFT	
0.014	0.203	GUARDRAIL	RIGHT	
0.296	0.296	INTERSECTION	RIGHT	RTE 900
0.316	0.351	GUARDRAIL	RIGHT	
0.491	0.491	INTERSECTION	RIGHT	RTE 901
0.497	0.514	CURB	RIGHT	
0.508	0.508	INTERSECTION	LEFT	RTE 901 SPUR
0.517	0.517	INTERSECTION	RIGHT	RTE 901
0.740	0.740	INTERSECTION	LEFT	PARK CITY ROAD
0.873	0.888	PAVED DITCH	LEFT	
0.893	0.893	INTERSECTION	LEFT	
0.895	0.895	INTERSECTION	RIGHT	
0.921	0.921	INTERSECTION	LEFT	RTE 011
0.923	0.923	INTERSECTION	RIGHT	RTE 011
0.931	0.931	TRAFFIC LIGHT	LEFT	X2
0.950	0.950	INTERSECTION	LEFT	
0.953	0.953	DROP INLET	LEFT	
0.956	0.956	INTERSECTION	RIGHT	
1.005	1.005	INTERSECTION	LEFT	RTE 200
1.095	1.111	BRIDGE	N/A	
1.311	1.325	CURB	RIGHT	
1.316	1.316	INTERSECTION	LEFT	ACCESS ROAD
1.316	1.316	INTERSECTION	RIGHT	RTE 902
1.603	1.603	INTERSECTION	LEFT	DELLOROS DRIVE
1.953	1.953	INTERSECTION	LEFT	RTE 903
1.958	1.991	CURB	RIGHT	

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MCFARLAND REEDS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.974	1.974	INTERSECTION	RIGHT	RTE 904
2.314	2.314	INTERSECTION	LEFT	ROCK HAVEN
2.362	2.362	INTERSECTION	LEFT	SHOEMAKE LANE
2.683	2.711	PULLOUT	LEFT	
2.684	2.704	CURB	RIGHT	
2.695	2.695	INTERSECTION	RIGHT	RTE 905
2.890	2.890	INTERSECTION	RIGHT	RTE 100
2.895	2.895	INTERSECTION	LEFT	
2.900	2.900			ROUTE ENDS AT PARK BOUNDARY

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : LAFAYETTE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT HARKER ROAD
0.007	0.007	INTERSECTION	LEFT	HARKER ROAD
0.008	0.008	INTERSECTION	RIGHT	HARKER ROAD
0.106	0.137	PAVED DITCH	RIGHT	
0.133	0.133	INTERSECTION	RIGHT	
0.134	0.134	INTERSECTION	LEFT	
0.153	0.153	INTERSECTION	LEFT	RTE 010
0.155	0.155	INTERSECTION	RIGHT	RTE 010
0.165	0.165	INTERSECTION	LEFT	
0.170	0.170	TRAFFIC LIGHT	RIGHT	X3
0.175	0.175	INTERSECTION	RIGHT	
0.202	0.202	INTERSECTION	RIGHT	RTE 012
0.211	0.211	INTERSECTION	LEFT	
0.282	0.282	INTERSECTION	RIGHT	RTE 012
0.337	0.348	BRIDGE	N/A	
0.399	0.444	PULLOUT	LEFT	
0.414	0.414	INTERSECTION	RIGHT	RTE 401
0.488	0.488	INTERSECTION	LEFT	
0.523	0.523	INTERSECTION	RIGHT	RTE 500
0.533	0.533	INTERSECTION	LEFT	RTE 013
1.035	1.095	PULLOUT	LEFT	
1.349	1.349	INTERSECTION	LEFT	RTE 501
1.354	1.354	INTERSECTION	RIGHT	RTE 502
1.542	1.635	PULLOUT	LEFT	
1.626	1.626	INTERSECTION	RIGHT	RTE 502
1.772	1.772	INTERSECTION	RIGHT	RTE 101
1.790	1.809	CURB	RIGHT	

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : LAFAYETTE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.805	1.805	INTERSECTION	RIGHT	RTE 909
1.812	1.812	INTERSECTION	LEFT	RTE 102
2.726	2.770	PULLOUT	RIGHT	
2.786	2.786	INTERSECTION	LEFT	RTE 103
2.951	2.951	INTERSECTION	RIGHT	RTE 503
2.979	2.999	BRIDGE	N/A	
3.030	3.030	INTERSECTION	LEFT	PARK SERVICE ROAD
3.360	3.360			ROUTE ENDS AT PARK BOUNDARY

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012 : VISITOR CENTER ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 011 @ MP 02
0.007	0.007	INTERSECTION	LEFT	ROUTE 0011
0.008	0.008	INTERSECTION	RIGHT	ROUTE 0011
0.043	0.060	CURB	LEFT	
0.045	0.062	CURB	RIGHT	
0.071	0.071	INTERSECTION	RIGHT	RTE 906
0.084	0.084	INTERSECTION	RIGHT	RTE 907
0.098	0.098	INTERSECTION	LEFT	ROUTE 0011
0.100	0.100			ROUTE ENDS AT RTE 011 @ MP 03
0.100	0.100	INTERSECTION	RIGHT	ROUTE 0011

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : ALEXANDER BRIDGE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 011 @ MP 05
0.009	0.009	INTERSECTION	LEFT	ROUTE 0011
0.009	0.009	INTERSECTION	RIGHT	ROUTE 0011
0.015	0.015	DROP INLET	RIGHT	
0.048	0.048	INTERSECTION	RIGHT	RTE 910
0.051	0.051	INTERSECTION	RIGHT	
0.290	0.307	CURB	LEFT	
0.304	0.304	INTERSECTION	LEFT	RTE 911
0.352	0.366	CURB	LEFT	
0.356	0.356	INTERSECTION	RIGHT	RTE 501
0.365	0.365	INTERSECTION	LEFT	RTE 912
0.391	0.391	INTERSECTION	RIGHT	
0.624	0.643	CURB	LEFT	
0.637	0.637	INTERSECTION	LEFT	RTE 913
0.661	0.677	CURB	RIGHT	
0.674	0.674	INTERSECTION	RIGHT	RTE 914
1.072	1.083	CURB	RIGHT	
1.078	1.078	INTERSECTION	RIGHT	RTE 915
1.314	1.314	INTERSECTION	LEFT	RTE 102
1.318	1.318	INTERSECTION	RIGHT	RTE 102
1.393	1.406	CURB	RIGHT	
1.404	1.404	INTERSECTION	RIGHT	RTE 916
1.905	1.918	CURB	RIGHT	
1.907	1.916	CURB	LEFT	
1.917	1.917	INTERSECTION	LEFT	RTE 917
1.917	1.917	INTERSECTION	RIGHT	RTE 918
2.157	2.157	INTERSECTION	LEFT	RTE 100

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : ALEXANDER BRIDGE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
2.171	2.195	GUARDRAIL	RIGHT	
2.177	2.199	GUARDRAIL	LEFT	
2.434	2.434	INTERSECTION	RIGHT	RTE 103
2.498	2.498	INTERSECTION	RIGHT	RTE 103
2.506	2.506	INTERSECTION	LEFT	RTE 919
2.795	2.802	CURB	RIGHT	
2.799	2.799	INTERSECTION	RIGHT	RTE 920
2.835	2.838	GUARDRAIL	RIGHT	
2.835	2.840	GUARDRAIL	LEFT	
2.841	2.856	BRIDGE	N/A	
2.842	2.855	CURB	RIGHT	
2.842	2.856	CURB	LEFT	
2.843	2.866	GUARDRAIL	RIGHT	
2.845	2.865	GUARDRAIL	LEFT	
2.868	2.868	INTERSECTION	RIGHT	
2.880	2.880			ROUTE ENDS AT PARK BOUNDARY
2.882	2.886	GUARDRAIL	RIGHT	

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013A : ALEXANDER BRIDGE ROAD SPUR

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT FROM ROUTE 0011
0.001	0.001	INTERSECTION	LEFT	ROUTE 0011
0.002	0.002	INTERSECTION	RIGHT	ROUTE 0011
0.020	0.020			ROUTE ENDS AT TO ROUTE 0013
0.024	0.024	INTERSECTION	LEFT	ROUTE 0013
0.029	0.029	INTERSECTION	RIGHT	ROUTE 0013

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100 : JAYS MILL ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010 @ MP 28
0.004	0.004	INTERSECTION	LEFT	ROUTE 0010/PARK BOUNDARY
0.006	0.006	INTERSECTION	RIGHT	ROUTE 0010/PARK BOUNDARY
0.014	0.014	INTERSECTION	LEFT	
0.018	0.018	INTERSECTION	RIGHT	RTE 921
0.135	0.135	INTERSECTION	RIGHT	RTE 922
0.172	0.172	INTERSECTION	RIGHT	RTE 102
0.364	0.364	INTERSECTION	LEFT	PARK SERVICE ROAD
1.087	1.087	INTERSECTION	LEFT	ROUTE 0013
1.090	1.090			ROUTE ENDS AT RTE 013 @ MP 21
1.090	1.090	INTERSECTION	RIGHT	ROUTE 0013

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0101 : DYER MILL ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 105 @ MP 08
0.186	0.186	INTERSECTION	LEFT	
0.293	0.293	INTERSECTION	LEFT	
0.464	0.464	INTERSECTION	RIGHT	
0.468	0.468	INTERSECTION	LEFT	
0.626	0.652	PULLOUT	LEFT	
0.756	0.756	INTERSECTION	LEFT	ROUTE 0011
0.756	0.756	INTERSECTION	RIGHT	ROUTE 0011
0.760	0.760			ROUTE ENDS AT RTE 011 @ MP 18

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102 : BROTHERTON ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 011 @ MP 18
0.003	0.003	INTERSECTION	LEFT	ROUTE 011
0.005	0.005	INTERSECTION	RIGHT	ROUTE 011
0.161	0.161	INTERSECTION	RIGHT	
0.280	0.301	PULLOUT	LEFT	
0.666	0.690	PULLOUT	LEFT	
0.885	0.907	PULLOUT	RIGHT	
1.012	1.012	INTERSECTION	RIGHT	RTE 013
1.014	1.014	INTERSECTION	LEFT	RTE 013
1.037	1.037	INTERSECTION	RIGHT	RTE 924
1.040	1.053	CURB	RIGHT	
1.055	1.055	INTERSECTION	RIGHT	
1.958	1.958	INTERSECTION	RIGHT	END @ RTE 0100
1.960	1.960			ROUTE ENDS AT RTE 100 @ MP 02
1.963	1.963	INTERSECTION	LEFT	RTE 0100

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103 : ALEXANDER VINEYARD ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 013 @ MP 24
0.002	0.002	INTERSECTION	RIGHT	ROUTE 0011
0.010	0.010	INTERSECTION	LEFT	ROUTE 0011
0.052	0.052	INTERSECTION	RIGHT	
0.641	0.641	INTERSECTION	RIGHT	
1.942	1.942	INTERSECTION	LEFT	
2.000	2.000	INTERSECTION	LEFT	ROUTE 0013
2.001	2.001	INTERSECTION	RIGHT	ROUTE 0013
2.010	2.010			ROUTE ENDS AT RTE 011 @ MP 28

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103A : ALEXANDER VINEYARD ROAD SPUR

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT FROM RTE 0013
0.003	0.003	INTERSECTION	LEFT	ROUTE 0013
0.004	0.004	INTERSECTION	RIGHT	ROUTE 0013
0.050	0.050			ROUTE ENDS AT TO ROUTE 0103
0.053	0.053	INTERSECTION	LEFT	ROUTE 0103
0.057	0.057	INTERSECTION	RIGHT	ROUTE 0103

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0104 : VITTETOE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT FROM ROUTE 0112
0.007	0.007	INTERSECTION	RIGHT	ROUTE 0112
0.025	0.025	INTERSECTION	RIGHT	
0.031	0.031	INTERSECTION	LEFT	
0.049	0.049	INTERSECTION	RIGHT	
0.049	0.049	INTERSECTION	RIGHT	ROUTE 0105
0.050	0.050			ROUTE ENDS AT TO ROUTE 0105
0.051	0.051	INTERSECTION	LEFT	ROUTE 0105

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0105 : CHICK VITTETOE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT PARK BOUNDARY
0.356	0.356	INTERSECTION	LEFT	
0.357	0.357	INTERSECTION	RIGHT	
0.465	0.465	INTERSECTION	LEFT	RTE 104
0.708	0.708	INTERSECTION	RIGHT	
0.861	0.861	INTERSECTION	RIGHT	
0.869	0.869	INTERSECTION	LEFT	RTE 101
0.947	0.947	INTERSECTION	RIGHT	
1.382	1.382	INTERSECTION	LEFT	
1.402	1.402	INTERSECTION	LEFT	
1.447	1.447	INTERSECTION	LEFT	RTE 500
1.462	1.462	INTERSECTION	LEFT	RTE 503
1.674	1.674	INTERSECTION	RIGHT	RTE 925
1.700	1.700	INTERSECTION	RIGHT	RTE 602
1.703	1.703	INTERSECTION	LEFT	RTE 925
2.417	2.417	INTERSECTION	RIGHT	
2.538	2.538	INTERSECTION	RIGHT	
2.560	2.560			ROUTE ENDS AT PARK BOUNDARY

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0106 : SANDERS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT TN ROUTE 58
0.005	0.005	INTERSECTION	LEFT	TN ROUTE 58
0.008	0.008	INTERSECTION	RIGHT	TN ROUTE 58
0.228	0.264	GUARDRAIL	RIGHT	
0.261	0.261	INTERSECTION	LEFT	RTE 201
0.547	0.547	INTERSECTION	LEFT	RTE 201
0.741	0.751	RETAINING WALL	LEFT	
0.760	0.760	INTERSECTION	RIGHT	
0.768	0.768	INTERSECTION	LEFT	TN ROUTE 148
0.770	0.770			ROUTE ENDS AT TN ROUTE 148
0.770	0.770	INTERSECTION	RIGHT	TN ROUTE 148

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0107 : WILLMINGHAM ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE ROUTE 148
0.001	0.001	INTERSECTION	LEFT	STATE ROUTE 148
0.008	0.008	INTERSECTION	RIGHT	STATE ROUTE 148
0.058	0.058	INTERSECTION	RIGHT	
0.095	0.100	PULLOUT	RIGHT	
0.126	0.126	INTERSECTION	LEFT	
0.173	0.173	INTERSECTION	LEFT	
0.382	0.452	CURB	LEFT	
0.383	0.383	INTERSECTION	RIGHT	RTE 108
0.458	0.458	INTERSECTION	LEFT	RTE 926
0.500	0.500			ROUTE ENDS AT HOUSE
0.504	0.504	INTERSECTION	RIGHT	

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0112 : SNODGRASS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 500 @ MP 13
0.007	0.007	INTERSECTION	LEFT	RTE 500
0.007	0.007	INTERSECTION	RIGHT	RTE 500
0.035	0.035	INTERSECTION	RIGHT	
0.067	0.067	INTERSECTION	LEFT	RTE 407
0.069	0.069	INTERSECTION	RIGHT	
0.163	0.163	INTERSECTION	LEFT	RTE 404
0.189	0.189	INTERSECTION	LEFT	
0.321	0.321	INTERSECTION	RIGHT	RTE 928
0.412	0.412	INTERSECTION	LEFT	
0.433	0.433	INTERSECTION	RIGHT	RTE 929
0.450	0.450			ROUTE ENDS AT END OF LOOP

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201 : SANDERS PICNIC ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 106 @ MP 03
0.007	0.007	INTERSECTION	RIGHT	RTE 106
0.009	0.009	INTERSECTION	LEFT	RTE 106
0.100	0.100	INTERSECTION	RIGHT	
0.139	0.139	INTERSECTION	LEFT	
0.203	0.203	INTERSECTION	LEFT	
0.251	0.251	INTERSECTION	LEFT	
0.301	0.301	INTERSECTION	LEFT	
0.317	0.317	INTERSECTION	LEFT	
0.374	0.374	INTERSECTION	RIGHT	RTE 106
0.380	0.380			ROUTE ENDS AT RTE 106 @ MP 06
0.380	0.380	INTERSECTION	LEFT	RTE 106

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0407 : SAVANNAH SERVICE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 405
0.015	0.015	INTERSECTION	LEFT	RTE 405
0.021	0.021	INTERSECTION	RIGHT	RTE 405
0.026	0.026	DROP INLET	LEFT	
0.061	0.061	INTERSECTION	RIGHT	
0.066	0.066	INTERSECTION	LEFT	
0.074	0.074	INTERSECTION	LEFT	
0.143	0.143	INTERSECTION	LEFT	
0.192	0.192	INTERSECTION	RIGHT	RTE 101
0.194	0.194	INTERSECTION	LEFT	RTE 101
0.200	0.200			ROUTE ENDS AT RTE 101 @ MP 02

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500 : GLENN KELLEY ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 105 @ MP 14
0.000	0.000	INTERSECTION	LEFT	
0.021	0.021	INTERSECTION	RIGHT	
0.046	0.046	INTERSECTION	RIGHT	
0.087	0.087	INTERSECTION	RIGHT	RTE 105
0.367	0.390	PULLOUT	RIGHT	
0.477	0.477	INTERSECTION	RIGHT	RTE 930
0.578	0.578	INTERSECTION	RIGHT	RTE 931
0.601	0.601	INTERSECTION	LEFT	RTE 101
0.612	0.612	INTERSECTION	RIGHT	RTE 101
0.786	0.816	PULLOUT	RIGHT	
0.999	1.025	PULLOUT	LEFT	
1.155	1.155	INTERSECTION	LEFT	RTE 932
1.272	1.272	INTERSECTION	LEFT	RTE 112
1.318	1.318	INTERSECTION	LEFT	RTE 933
1.383	1.383	INTERSECTION	LEFT	RTE 405
1.953	1.976	PULLOUT	RIGHT	
1.990	1.990			ROUTE ENDS AT RTE 011 @ MP 05 (CIRCULATORY TOUR)
1.990	1.990	INTERSECTION	RIGHT	ROUTE 0011 (CIRCULATORY TOUR)
1.991	1.991	INTERSECTION	LEFT	ROUTE 0011 (CIRCULATORY TOUR)

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501 : BATTLELINE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 013 @ MP 03
0.005	0.005	INTERSECTION	RIGHT	ROUTE 0013
0.009	0.009	INTERSECTION	LEFT	ROUTE 0013
0.024	0.024	INTERSECTION	RIGHT	RTE 934
0.064	0.095	PULLOUT	RIGHT	
0.172	0.191	PULLOUT	RIGHT	
0.205	0.225	PULLOUT	RIGHT	
0.313	0.339	PULLOUT	RIGHT	
0.417	0.436	PULLOUT	RIGHT	
0.495	0.525	PULLOUT	RIGHT	
0.576	0.593	PULLOUT	RIGHT	
0.625	0.648	PULLOUT	LEFT	
0.818	0.818	INTERSECTION	RIGHT	ROUTE 0011 (CIRCULATORY TOUR)
0.820	0.820			ROUTE ENDS AT RTE 011 (CIRCULATORY TOUR)
0.820	0.820	INTERSECTION	LEFT	ROUTE 0011 (CIRCULATORY TOUR)

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0502 : POE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 011 @ MP 13
0.001	0.001	INTERSECTION	RIGHT	BEGIN @ RTE 0011
0.014	0.014	INTERSECTION	LEFT	BEGIN @ RTE 0011
0.032	0.049	PULLOUT	LEFT	
0.095	0.122	PULLOUT	LEFT	
0.178	0.178	INTERSECTION	LEFT	RTE 935
0.244	0.262	PULLOUT	RIGHT	
0.294	0.314	PULLOUT	RIGHT	
0.339	0.339	INTERSECTION	RIGHT	END @ RTE 0011
0.340	0.340			ROUTE ENDS AT RTE 011 @ MP 16 (CIRCULATORY TOUR)
0.343	0.343	INTERSECTION	LEFT	END @ RTE 0011

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0503 : GLEN VINEYARD ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 011 @ MP 29
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011
0.007	0.007	INTERSECTION	RIGHT	ROUTE 0011
0.014	0.023	BRIDGE	N/A	
0.048	0.069	PULLOUT	RIGHT	
0.796	0.854	CURB	LEFT	
0.801	0.801	INTERSECTION	LEFT	RTE 936
0.848	0.848	INTERSECTION	LEFT	RTE 936
1.076	1.076	INTERSECTION	LEFT	
1.090	1.090			ROUTE ENDS AT RTE 105 @ MP 14 (CIRCULATORY TOUR)
1.095	1.095	INTERSECTION	LEFT	ROUTE 0105 (CIRCULATORY TOUR)

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0600 : DRY VALLEY ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT FROM ROUTE 0105 MP 035 RIGHT
0.033	0.033	INTERSECTION	LEFT	
0.039	0.039	INTERSECTION	RIGHT	
0.040	0.040			ROUTE ENDS AT TO RAILROAD
0.041	0.041	INTERSECTION	LEFT	

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0601 : LYTLE STATION ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT FROM ROUTE 0105 MP 095 RIGHT
0.001	0.001	INTERSECTION	RIGHT	
0.034	0.038	BRIDGE	N/A	
0.060	0.060			ROUTE ENDS AT TO RAILROAD
0.062	0.062	INTERSECTION	LEFT	
0.069	0.069	INTERSECTION	RIGHT	

CHCH: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0602 : TOWER ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT FROM ROUTE 0105 MP 17 RIGHT
0.001	0.001	RAILROAD CROSSING	RIGHT	
0.027	0.027	INTERSECTION	RIGHT	
0.029	0.029	INTERSECTION	LEFT	
0.030	0.030			ROUTE ENDS AT TO RAILROAD

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
5220	Numeric Code for Chickamauga & Chattanooga National Military Park
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CHCH	Alpha Code for Chickamauga & Chattanooga National Military Park
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

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

APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can 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.

Rating Index Formulas

Alligator Cracking Index = $100 - [40 * (\%low/70 + \%medium/30 + \%high/10)]$

Longitudinal Cracking Index = $100 - [40 * (\%low/350 + \%medium/200 + \%high/75)]$

Transverse Cracking Index = $100 - [(20 * (low/15.1 + medium/7.5)) + (40 * (high/1.9))]$

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

Rutting Index: $100 - [40 * ((low/160) + (med/80) + (high/40))]$

Roughness Condition Index: (RCI) = $32 * [5 * e^{(-0.0041 * \text{average IRI})}]$

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

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

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

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

Raveling – loss of surface rock chips revealing previous surface

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

Rutting

Potholes/Patching

Ratings - Chip Seal:

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

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

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

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

Surface Condition - Asphalt:

Cracking of any type

Rutting

Potholes/Patching

Ratings - Asphalt:

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

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

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

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

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

Excellent	97
Good	90
Fair	73
Poor	45

Drainage Condition Rating Definitions

- Good:** Minimal overall drainage problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.
- Poor:** Problems exist that jeopardizes the integrity of the road in this section. If funding were available for pavement maintenance, 50% to 100% is estimated to correct drainage deficiencies.

Drainage Condition Rating Criteria

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

Good Drainage

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

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

Poor Drainage

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

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

Shoulder Condition Rating Definitions

- Good:** The shoulder is generally in good functional condition. If curbs are present, they are functional.
- Poor:** There is no shoulder because erosion has removed it. If curbs are present, they need to be replaced.

Shoulder Rating Criteria

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

Good Shoulders

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

Poor Shoulder

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

APPENDIX C: DIGITAL IMAGE INFORMATION

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

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

APPENDIX D: METADATA

ARAN ROUTE GPS DATA

Background information of route spatial data.

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

Data Collection Device:

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

Accuracy: Expected ground accuracy is 1 meter *

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

Geographic Datum: WGS 1984

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

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

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

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

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

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

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

Specific Caveats

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

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

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

Key to Notes in Tables

(1): Note that only one value fits in field, so even if this value varies throughout the route, only one value is recorded here.

(2): Note that some MP values listed here are estimates recorded during the Route ID process for use by the data collection crew (e.g. "FROM ROUTE 0010 AT MILEPOST 30.3"). They are estimates only and are not expected to match the more accurate milepost values included elsewhere in the database in the BEG_MP, END_MP, and MP fields.

(3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.

(4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle's mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle's mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors' key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor. Features along the side of a roadway that are measured using the Surveyor software might not be located very accurately. Surveyor is known to be most accurate when measuring quantities near the center of the video frame, as opposed to in the edges of the video image.

(5): Only signs are evaluated for condition. No other features' conditions are assessed, so "N/A" was originally intended to be the default value for unassessed features. However, some non-sign features do have condition ratings in the database. These are not accurate, because no assessment was ever done on non-sign features.

(6): Condition assessments are not conducted on concrete (CO) surface types. Perfect values for concrete road sections are default values and do not represent a condition assessment of the concrete surfaces.

(7): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolution. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

Master Table Metadata:

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

PMS_Feature Table Metadata:

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

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

PMS 20, PMS Mile & PMS Visidata Tables Metadata:

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

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

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Manual Pavement Video Processing	Untested (6)
GPS_LAT	999.9999999	Latitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_LON	-999.9999999	Longitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_ELEV	999999.9	Elevation	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_MODE	XXX	GPS mode during collection	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
VIDEO	<Par/>C03VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
LANEDEV_FLG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
VISL_TO	999999 (millimiles)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

Cycle 3 Shapefile Metadata

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

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: WGS 1984

chch_seg

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: chch_seg

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.341370

East_Bounding_Coordinate: -85.228775

North_Bounding_Coordinate: 35.013523

South_Bounding_Coordinate: 34.895718

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 155

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: chch_seg

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE_

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: TNODE_

Attribute:

Attribute_Label: LPOLY_

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RPOLY_

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LENGTH

Attribute_Definition:

Numeric PCR definition. Average PCR value based on programatic averaging of adjacent segments.

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: CHCH_SEG_

Attribute_Definition: Verbal PCR definition based on value in PCRAV field

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

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

Attribute:

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

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute:

Attribute_Label: BMP

Attribute:

Attribute_Label: EMP

Attribute:

Attribute_Label: PCR

Attribute:

Attribute_Label: PCR_RATE

Attribute:

Attribute_Label: RT_LENGTH

Attribute:

Attribute_Label: PCRMI

Attribute:

Attribute_Label: PCR_RATEMI

Attribute:

Attribute_Label: PCR_RATEAV

Attribute:

Attribute_Label: PCRAV

Attribute:

Attribute_Label: TSR_EDIT

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20060124
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile

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chch_pkg_03

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: chch_pkg_03

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Parking Areas

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 5/13/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.344520

East_Bounding_Coordinate: -85.228871

North_Bounding_Coordinate: 35.043011

South_Bounding_Coordinate: 34.905964

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

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

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 39

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

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* chch_pkg_03*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* FEATURE*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Surface type of route*Attribute_Domain_Values:**Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Condition rating for route*Attribute:**Attribute_Label:* PHOTOS*Attribute_Definition:* Photo filename associated with feature*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT

Attribute_Definition: Feature area in square feet

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.018

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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chch_pkg_03_map

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: chch_pkg_03_map

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Copy of Parking Areas

Purpose: Road Inventory Program

Supplemental_Information:

This shapefile is a copy of the source parking shapefile. The features are edited as needed for graphic purposes.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 5/13/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.344520

East_Bounding_Coordinate: -85.228871

North_Bounding_Coordinate: 35.043011

South_Bounding_Coordinate: 34.905964

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for parking areas

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 39

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: chch_pkg_03_map

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NAME

Attribute_Definition: Route name

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FEATURE

Attribute:

Attribute_Label: SURF_TYPE

Attribute_Definition: Surface type of route

Attribute_Domain_Values:

Attribute:

Attribute_Label: CONDITION

Attribute_Definition: Condition rating for route

Attribute:

Attribute_Label: PHOTOS

Attribute_Definition: Photo filename associated with feature

Attribute:

Attribute_Label: COMMENT

Attribute_Definition: Field comment

Attribute:

Attribute_Label: GPS_DATE

Attribute_Definition: Date of GPS collection

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

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

*Metadata_Reference_Information:**Metadata_Date:* 20060124*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

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chch_nonnps

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: chch_nonnps

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: non-NPS roads

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from heads-up digitizing of roads representing non-NPS roads for graphic purposes

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.367593

East_Bounding_Coordinate: -85.230603

North_Bounding_Coordinate: 35.122189

South_Bounding_Coordinate: 34.911345

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for non-NPS roads

Lineage:

Source_Information:

Type_of_Source_Media: Heads-up digitized

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 8

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: chch_nonnps

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: Id

Attribute_Definition: Name of road if available

Attribute:

Attribute_Label: Name

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.008

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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chch_mrp_03

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: chch_mrp_03

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Manually Rated Roads - Polygons

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 5/13/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.366762

East_Bounding_Coordinate: -85.239759

North_Bounding_Coordinate: 35.120828

South_Bounding_Coordinate: 34.936559

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:* Good*Completeness_Report:* Complete for manually rated roads.*Lineage:**Source_Information:**Type_of_Source_Media:* GPS*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 8*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:* 0.000000*Longitude_Resolution:* 0.000000*Geographic_Coordinate_Units:* Decimal degrees*Geodetic_Model:**Horizontal_Datum_Name:* North American Datum of 1927*Ellipsoid_Name:* Clarke 1866*Semi-major_Axis:* 6378206.400000*Denominator_of_Flattening_Ratio:* 294.978698

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* chch_mrp_03*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route Number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route Name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* SECTION_*Attribute_Definition:* Route section ID*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Surface type of route*Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Condition rating*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT*Attribute_Definition:* Area of manually rated road in square feet

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.187

*Metadata_Reference_Information:**Metadata_Date:* 20060124*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

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chch_mrp_03_map

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: chch_mrp_03_map

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Manually Rated Roads - Polygons

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 5/13/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.366762

East_Bounding_Coordinate: -85.239759

North_Bounding_Coordinate: 35.120828

South_Bounding_Coordinate: 34.936559

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:* Good*Completeness_Report:* Complete for manually rated roads.*Lineage:**Source_Information:**Type_of_Source_Media:* GPS*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 8*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:* 0.000000*Longitude_Resolution:* 0.000000*Geographic_Coordinate_Units:* Decimal degrees*Geodetic_Model:**Horizontal_Datum_Name:* North American Datum of 1927*Ellipsoid_Name:* Clarke 1866*Semi-major_Axis:* 6378206.400000*Denominator_of_Flattening_Ratio:* 294.978698

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* chch_mrp_03_map*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route Number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route Name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* SECTION_*Attribute_Definition:* Route section ID*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Surface type of route*Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Condition rating*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT*Attribute_Definition:* Area of manually rated road in square feet

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.187

*Metadata_Reference_Information:**Metadata_Date:* 20060124*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

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chch_mi_pt

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: chch_mi_pt

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Mile Points

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. All attributes found in the PMS_20 table are found on the miles points.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Not Available

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.338844

East_Bounding_Coordinate: -85.228775

North_Bounding_Coordinate: 35.007462

South_Bounding_Coordinate: 34.900436

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD Sterling

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for mile points

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 39

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: chch_mi_pt

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: RIP_CYCLE

Attribute_Definition: 3, for data collection cycle 3

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: STATE

Attribute_Definition: State where route is located

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_NO

Attribute_Definition: Park numeric code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FUNCT_CLAS

Attribute_Definition: Route functional class

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: DIRECTION

Attribute_Definition: Survey lane: PRI (primary) or OPP (opposite)

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: BEG_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: END_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: INT_LENGTH

Attribute_Definition: Length of road interval as aggregated from data table

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RTE_LENGTH

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: NO_LANES

Attribute_Definition: Number of lanes in route

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LANE_NO

Attribute_Definition: Data collection lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: WX_LANE_WI

Attribute_Definition: WiseCrax (crack detection software) analysis width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: LANE_WIDTH

Attribute_Definition: Width of lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: PAVE_WIDTH

Attribute_Definition: Full pavement width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WIDTH

Attribute_Definition: Left shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WID_1

Attribute_Definition: Right shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_COND_

Attribute_Definition: Left shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SHLD_COND1

Attribute_Definition: Right shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

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

Attribute:

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

Attribute:

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

Attribute:

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

Attribute:

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

Attribute:

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

Attribute:

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

Attribute:

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

Attribute:

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

Attribute:

Attribute_Label: IRI_R
Attribute_Definition: Right wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

Attribute:

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

Attribute:

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

Attribute:

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

*Attribute:**Attribute_Label:* RUT_MAX*Attribute_Definition:* Maximum rut depth of both wheelpaths*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_SD*Attribute_Definition:* Rut depth standard deviation*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_LOW*Attribute_Definition:*

Percent of low severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_MED*Attribute_Definition:*

Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_HI*Attribute_Definition:*

Percent of high severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* XFALL*Attribute_Definition:* Cross fall at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* GRADE*Attribute_Definition:* Grade at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* AC_INDEX*Attribute_Definition:* Alligator cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* AC_LOW*Attribute_Definition:*

Percent of WiseCrax measured lane area with low-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_MED*Attribute_Definition:*

Percent of WiseCrax measured lane area with medium-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_HI*Attribute_Definition:*

Percent of WiseCrax measured lane area with high-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing

*Attribute:**Attribute_Label:* LC_INDEX*Attribute_Definition:* Longitudinal cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* LC_LOW*Attribute_Definition:*

Low-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_MED*Attribute_Definition:*

Medium-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_HI*Attribute_Definition:*

High-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_INDEX*Attribute_Definition:* Transverse cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* TC_LOW*Attribute_Definition:*

Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_MED*Attribute_Definition:*

Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_HI*Attribute_Definition:*

Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* PATCH_INDE*Attribute_Definition:* Patching index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* PATCHING*Attribute_Definition:* Percent of WiseCrax measured lane area affected by patching

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

Attribute_Definition: Filename of raw data files
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SECTION
Attribute_Definition: route section ID
Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection

Attribute:

Attribute_Label: FKEY
Attribute_Definition: Unique record ID
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_FROM
Attribute_Definition: Raw MP of first video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_TO
Attribute_Definition: Raw MP of last video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IDKEY
Attribute_Definition: Unique record ID used by VisiData
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: MP_REF
Attribute_Definition: Range of mileage to play in VisiData
Attribute_Definition_Source: Contractor Post-processing

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.030

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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chch_mi

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: chch_mi

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating provided in the PMS_mile table.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -85.341370

East_Bounding_Coordinate: -85.228775

North_Bounding_Coordinate: 35.013523

South_Bounding_Coordinate: 34.895718

Keywords:

Theme:

Theme_Keyword_Thesaurus: CHCH

Theme_Keyword: CHCH

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 32

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: chch_mi

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE_

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: TNODE_

Attribute:

Attribute_Label: LPOLY_

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RPOLY_

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Numeric PCR definition

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: CHCH_MI_

Attribute_Definition: Verbal PCR definition

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

Enumerated_Domain_Value_Definition: PCR value <= 60

Enumerated_Domain:

Enumerated_Domain_Value: FAIR

Enumerated_Domain_Value_Definition: PCR value 61-84

Enumerated_Domain:

Enumerated_Domain_Value: GOOD

Enumerated_Domain_Value_Definition: PCR value 85-94

Enumerated_Domain:

Enumerated_Domain_Value: EXCELLENT

Enumerated_Domain_Value_Definition: PCR value 95-100

Attribute:

Attribute_Label: CHCH_MI_ID

Attribute_Definition: Indicates whether feature has been edited for graphic purposes.

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes

Enumerated_Domain:

Enumerated_Domain_Value: 0

Enumerated_Domain_Value_Definition: No edit made to feature.

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute:

Attribute_Label: BMP

Attribute:

Attribute_Label: EMP

Attribute:

Attribute_Label: PCR

Attribute:

Attribute_Label: PCR_RATE

Attribute:

Attribute_Label: RT_LENGTH

Attribute:

Attribute_Label: PCRMI

Attribute:

Attribute_Label: PCR_RATEMI

Attribute:

Attribute_Label: PCR_RATEAV

Attribute:

Attribute_Label: PCRAV

Attribute:

Attribute_Label: TSR_EDIT

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.016

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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APPENDIX C: DIGITAL IMAGE INFORMATION

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

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

APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can 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.

Rating Index Formulas

Alligator Cracking Index = $100 - [40 * (\%low/70 + \%medium/30 + \%high/10)]$

Longitudinal Cracking Index = $100 - [40 * (\%low/350 + \%medium/200 + \%high/75)]$

Transverse Cracking Index = $100 - [(20 * (low/15.1 + medium/7.5)) + (40 * (high/1.9))]$

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

Rutting Index: $100 - [40 * ((low/160) + (med/80) + (high/40))]$

Roughness Condition Index: (RCI) = $32 * [5 * e^{(-0.0041 * \text{average IRI})}]$

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

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

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

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

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

Ratings - Chip Seal:

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

Surface Condition - Asphalt:

- Cracking of any type
- Rutting
- Potholes/Patching

Ratings - Asphalt:

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

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

Excellent	97
Good	90
Fair	73
Poor	45

Drainage Condition Rating Definitions

- Good:** Minimal overall drainage problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.
- Poor:** Problems exist that jeopardizes the integrity of the road in this section. If funding were available for pavement maintenance, 50% to 100% is estimated to correct drainage deficiencies.

Drainage Condition Rating Criteria

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

Good Drainage

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

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

Poor Drainage

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

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

Shoulder Condition Rating Definitions

- Good:** The shoulder is generally in good functional condition. If curbs are present, they are functional.
- Poor:** There is no shoulder because erosion has removed it. If curbs are present, they need to be replaced.

Shoulder Rating Criteria

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

Good Shoulders

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

Poor Shoulder

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

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
5220	Numeric Code for Chickamauga & Chattanooga National Military Park
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CHCH	Alpha Code for Chickamauga & Chattanooga National Military Park
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

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