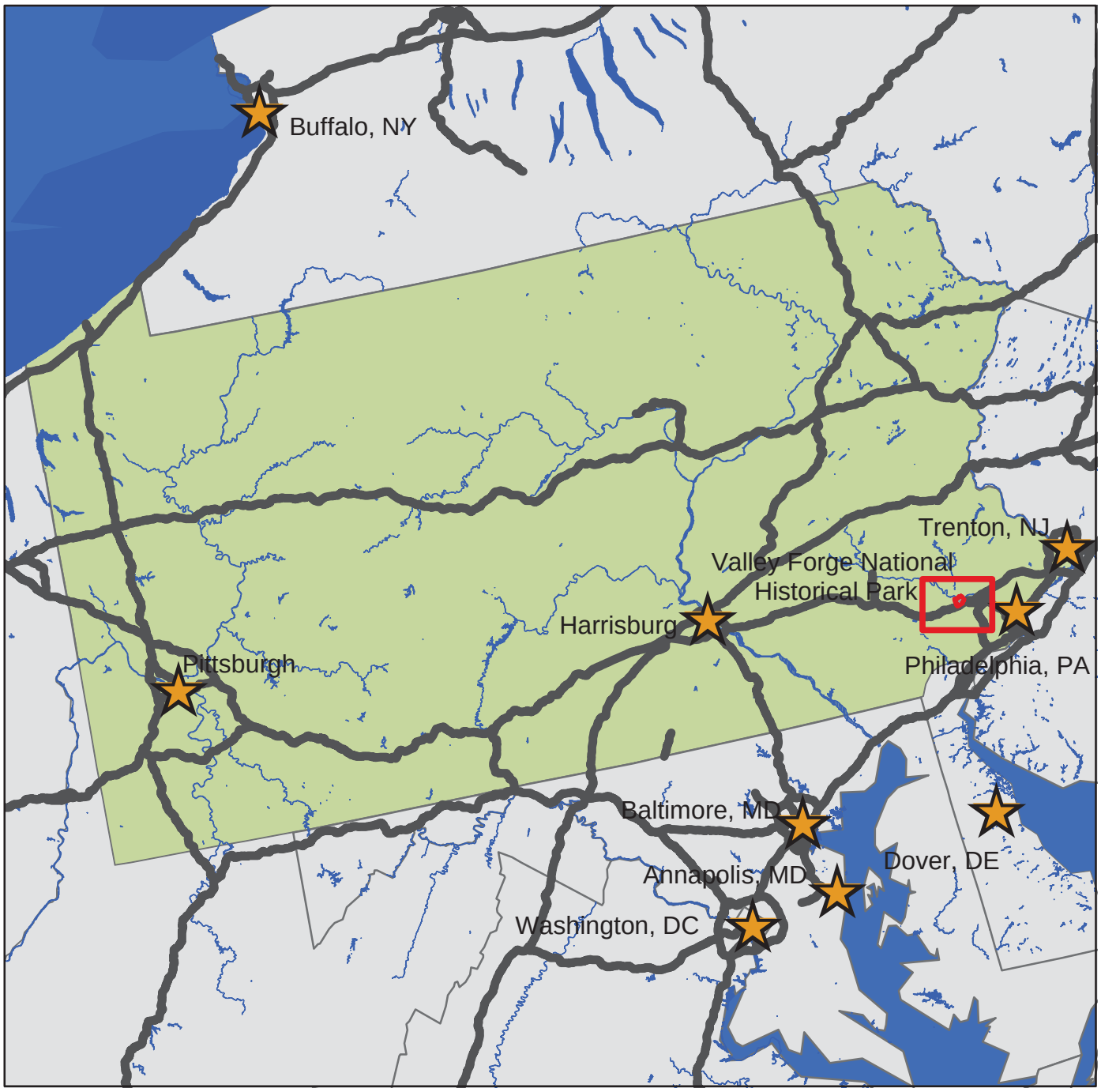
The Road Inventory
of
Valley Forge National Historical Park
VAFO – 4860

national park service

Road Inventory Program

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

Valley Forge National Historical Park
in
Pennsylvania



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INTRODUCTION

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

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

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

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

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

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

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

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

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

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

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

FHWA RIP Coordinator:

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Valley Forge National Historical Park Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	8.42	6/28/2002
Unpaved Estimated Route Miles	4.36	6/28/2002
Paved ARAN and Unpaved Route Miles	12.78	
Paved ARAN Driven Lane Miles	9.76	6/28/2002
Paved MRR Lane Miles	0.00	
Parking Lot Lane Miles	19.23	6/28/2002
Total Paved Lane Miles	28.99	

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)

Valley Forge National Historical 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	0.22	$6,600
Good	0.70	$77,000
Fair	3.44	$1,926,400
Poor	4.06	$6,252,400
Totals	**8.42**	**$8,262,400**

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).

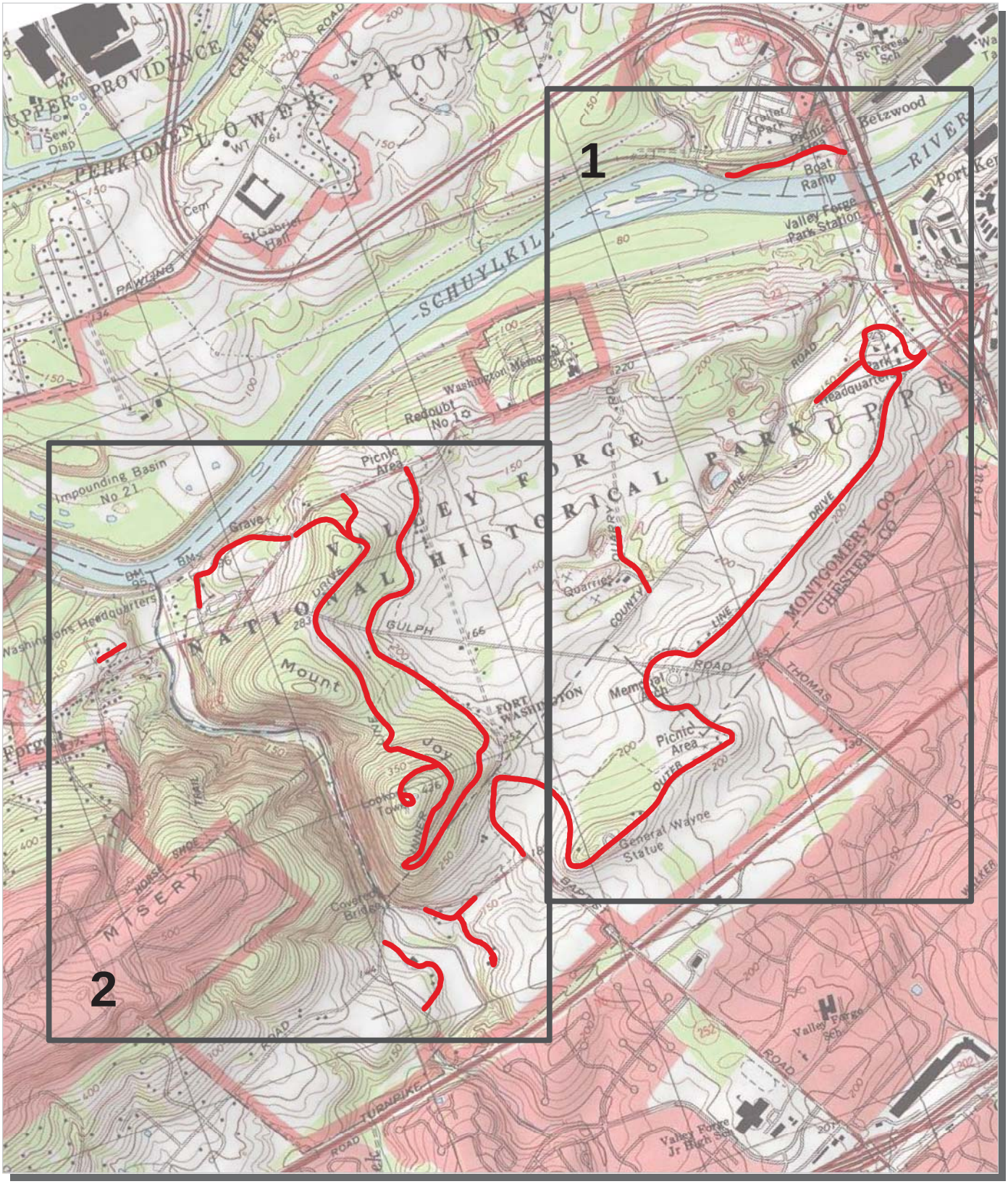
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Valley Forge National Historical Park Summaries

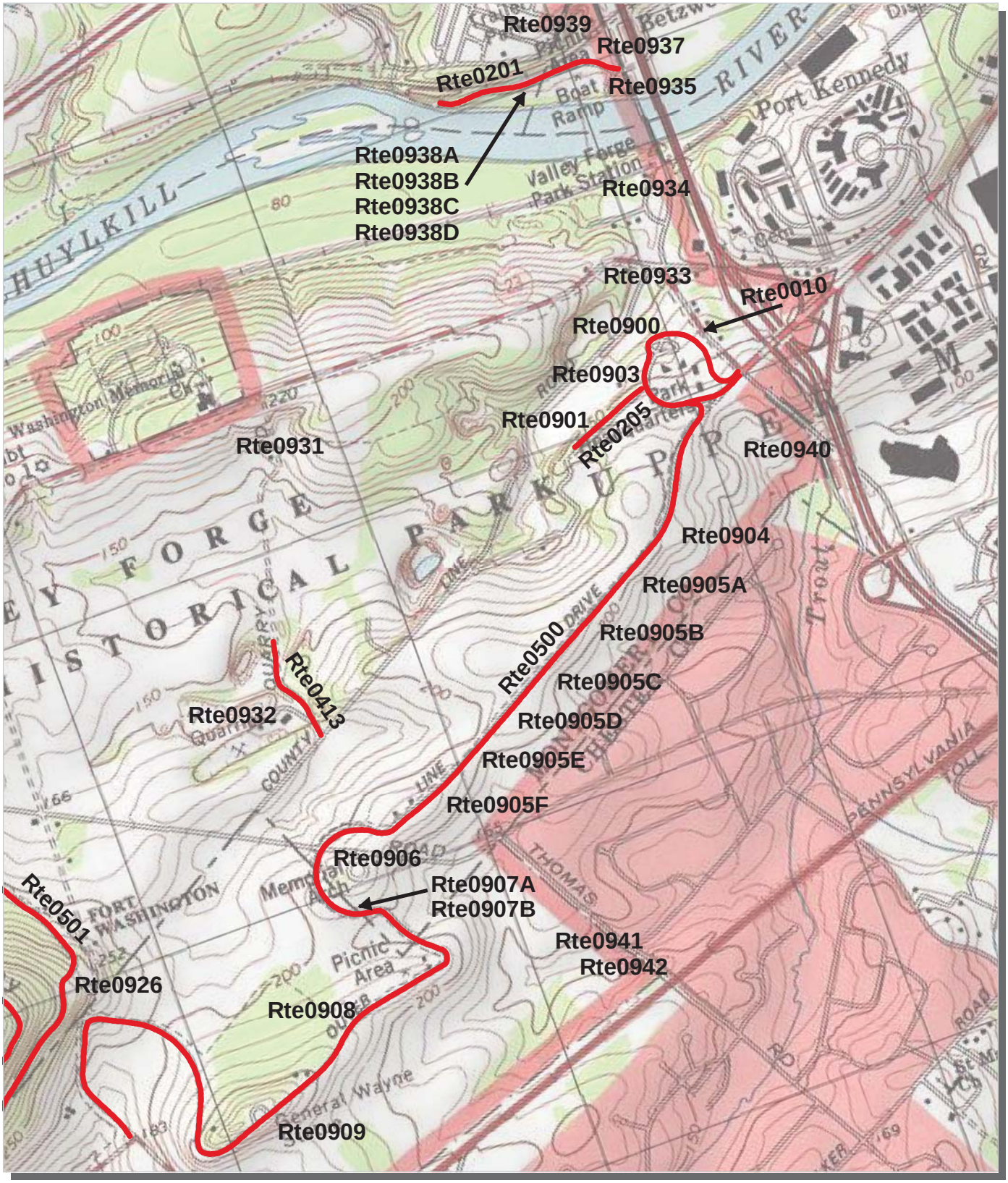
Paved Route Miles and Percentages by Functional Class and PCR for ARAN Driven Paved Roads

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	0.16	1.90%	0.32	3.80%	0.02	0.24%	0.02	0.24%	0.52
2	0.65	7.72%	0.05	0.59%					0.70
3	2.61	31.00%	2.89	34.32%	0.64	7.60%	0.18	2.14%	6.32
4									
5	0.19	2.26%	0.06	0.71%			0.02	0.24%	0.27
6	0.45	5.34%	0.12	1.43%	0.04	0.48%			0.61
7									
8									
Totals	**4.06**	**48.22%**	**3.44**	**40.86%**	**0.70**	**8.31%**	**0.22**	**2.61%**	**8.42**

Valley Forge National Historical Park
Route Location
Key Map



Valley Forge National Historical Park
Route Location Map
Area Map 1

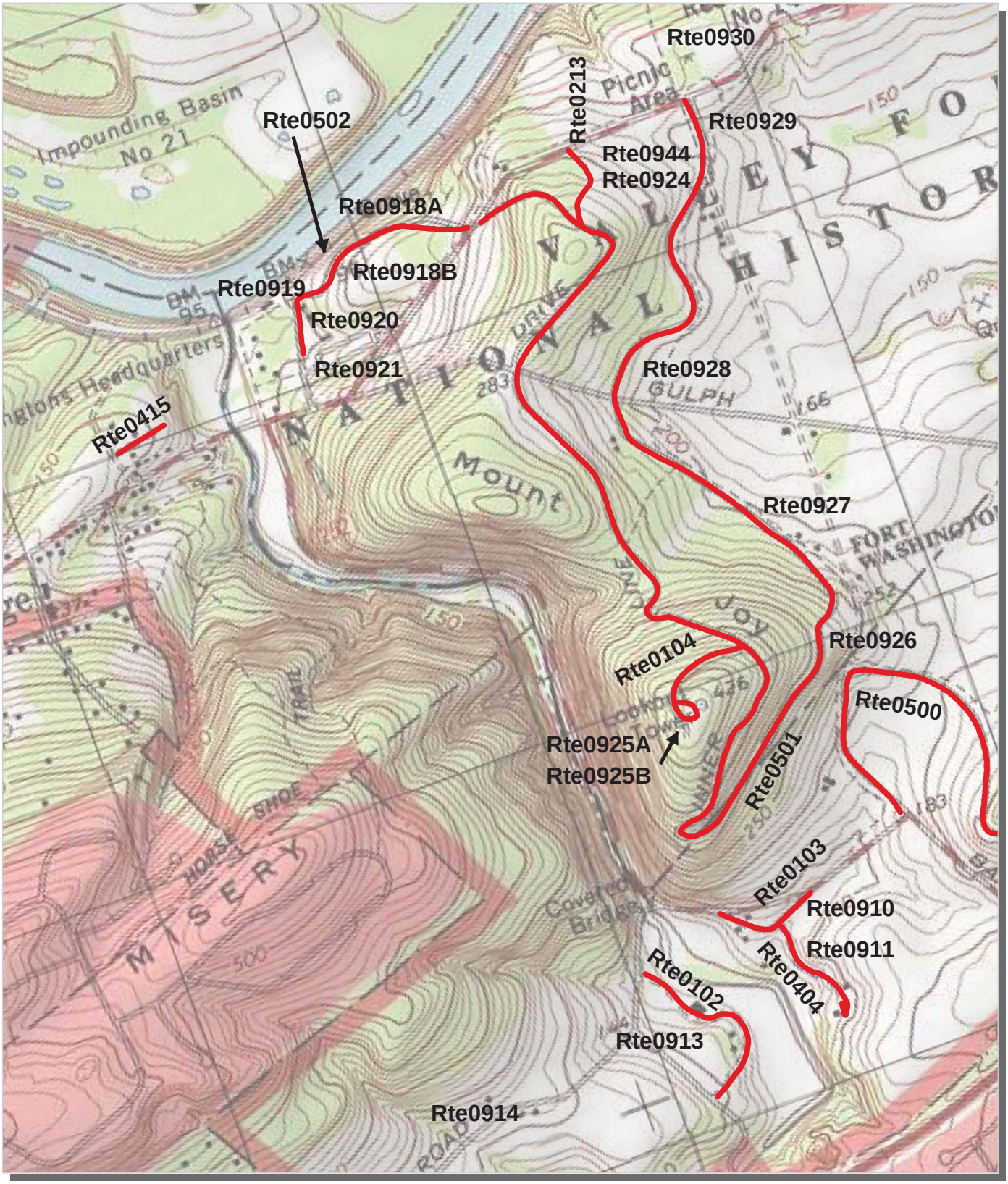


Unique colors used to differentiate routes

0.25 0 0.25 0.5 Miles

N

Valley Forge National Historical Park
Route Location Map
Area Map 2

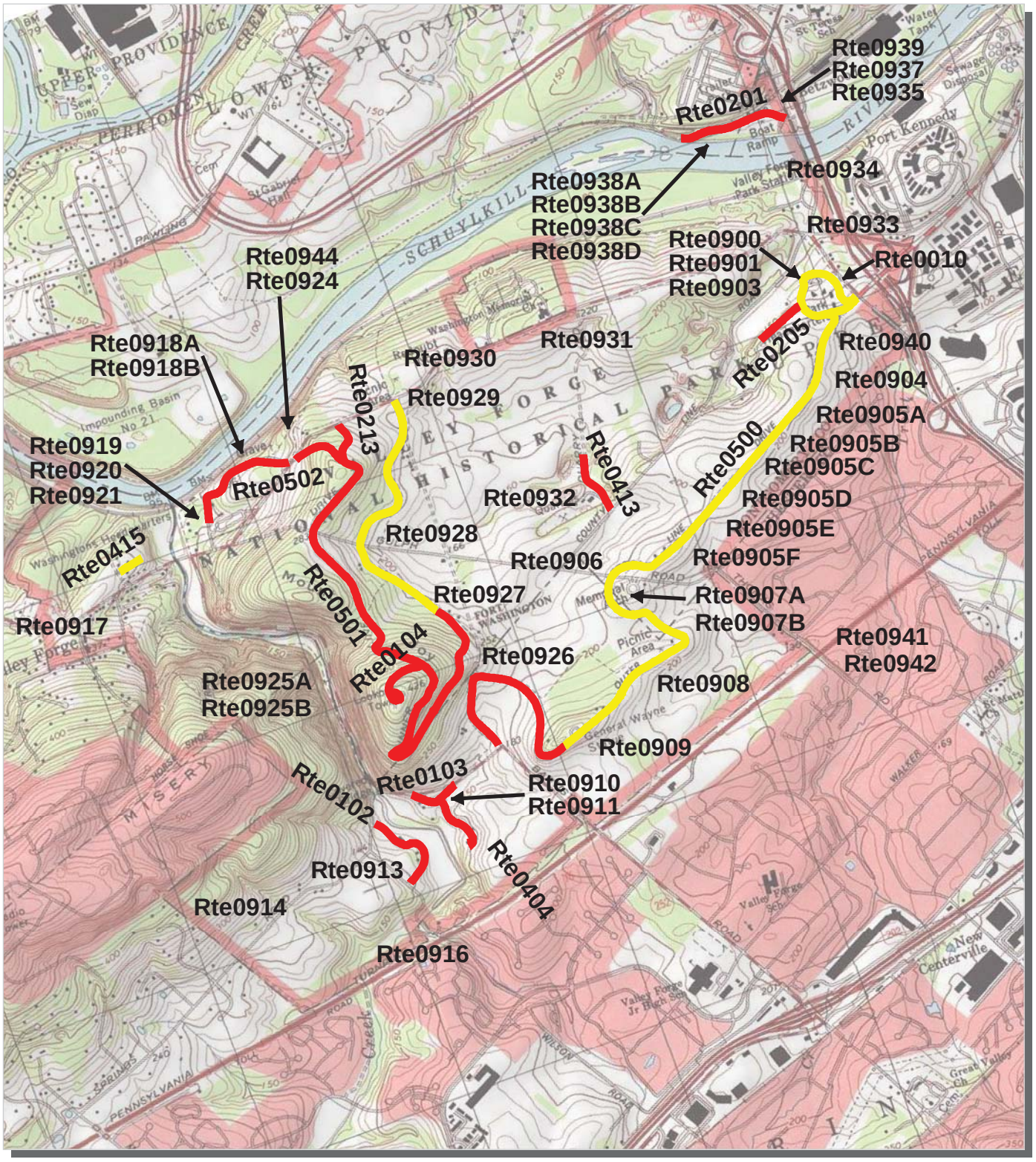


Unique colors used to differentiate routes

0.2 0 0.2 0.4 Miles

N

Valley Forge National Historical Park
Route Condition Key Map
PCR - Mile by Mile



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

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

0.5 0 0.5 1 Miles

N

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 =

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Valley Forge National Historical Park

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0010	39455	VISITOR CENTER ACCESS ROAD	FROM STATE ROUTE 23	TO STATE ROUTE 23	0.52	0.00	0.52	1	2	0	AS
0102	39500	MAXWELLS DRIVE	FROM YELLOW SPRINGS ROAD	TO WILSON ROAD	0.31	0.00	0.31	2	1	0	AS
0103	39486	KNOX'S QUARTERS ACCESS ROAD	FROM STATE ROUTE 252	TO STATE ROUTE 252	0.18	0.00	0.18	5	1	0	AS
0104	39467	OBSERVATION TOWER ROAD	FROM ROUTE 0501	TO END OF LOOP	0.25	0.00	0.25	2	1,2	0	AS
0201		BETZWOOD PICNIC AREA ROAD	FROM TROOPER ROAD	TO END	0.35	0.00	0.35	3	2	0	AS
0203	39502	WALNUT HILL ACCESS ROAD	FROM PAWLING ROAD	TO END	0.00	0.60	0.60	3	2/1	0	GR
0205	39462	AMPHITHEATER ACCESS ROAD	FROM ROUTE 0010	TO END OF LOOP PAST END OF PAVEMENT	0.17	0.34	0.51	6	2/1	0	OC
0212		SPRINGHOUSE ROAD	FROM ROUTE 0203	TO END	0.00	0.40	0.40	3	1	0	GR
0213		REDOUBT 4 ROAD	FROM STATE ROUTE 23	TO ROUTE 0501	0.14	0.00	0.14	2	2	0	AS
0300	39474	HISTORIC TRACE	FROM ROUTE 0500	TO STATE ROUTE 23	0.00	0.78	0.78	4	1	0	OT
0404	39470	SUPERINTENDENTS RESIDENCE ACCESS ROAD	FROM ROUTE 0103	TO END OF LOOP	0.22	0.00	0.22	6	1	0	AS
0407		HANEY HOUSE ACCESS ROAD	FROM ROUTE 0933	TO STATE ROUTE 23	0.00	0.11	0.11	5	1	0	GR
0409		LCS 115 ACCESS ROAD	FROM CATFISH LANE	TO END	0.00	0.21	0.21	6	1	0	GR
0410		STOCKPILE ROAD	FROM COUNTY LINE ROAD	TO END	0.00	0.10	0.10	6	1	0	GR
0411		CINDER PILE ROAD	FROM COUNTY LINE ROAD	TO END	0.00	0.12	0.12	6	1	0	OT
0412		CINDER BANK ROAD	FROM ROUTE 0934	TO END OF LOOP	0.00	0.11	0.11	5	1	0	OT
0413	39504	QUARRY ROAD	FROM COUNTY LINE ROAD	TO ROUTE 0931	0.22	0.30	0.52	6	2/1	0	AS
0414		OWEN DRIVE	FROM STATE ROUTE 23	TO END	0.00	0.10	0.10	5	1	0	GR
0415	39498	SAMUEL BRITTAIN LANE	FROM ORCHARD LANE	TO END OF PAVEMENT	0.09	0.00	0.09	5	1	0	AS
0500	39456	OUTER LINE DRIVE	FROM ROUTE 0010	TO STATE ROUTE 252	2.71	0.00	2.71	3	1,2	0	AS
0501	39458	INNER LINE DRIVE	FROM STATE ROUTE 23	TO STATE ROUTE 23	2.86	0.00	2.86	3	1,2	0	OC
0502	39465	RIVER ROAD	FROM ROUTE 0921	TO STATE ROUTE 23	0.40	0.00	0.40	3	1	0	AS
0700	39464	Ampitheater Road 2A modified	FROM	TO	0.00	0.12	0.12	ZZ		0	GR
0701	39503	Varnums Trace Road	FROM	TO	0.00	1.07	1.07	ZZ		0	GR
0900		VISITOR CENTER DROP OFF LOOP	FROM ROUTE 0010	TO ROUTE 0010	0.00	0.00	0.00	9		9,882	AS
0901		VISITOR CENTER PARKING	FROM ROUTE 0010	TO PARKING	0.00	0.00	0.00	9		203,738	AS
0902	39877	VISITOR CENTER OVERFLOW PARKING	FROM ROUTE 0901	TO PARKING	0.00	0.00	0.00	9		36,920	GR
0903		ADMINISTRATIVE AND HANDICAPPED VISITOR CENTER PARKING	FROM ROUTE 0010	TO PARKING	0.00	0.00	0.00	9		58,857	AS
0904	39866	MUHLENBERG'S BRIGADE PARKING	FROM ROUTE 0500	TO ROUTE 0500	0.00	0.00	0.00	9		24,918	AS

NPS/RIP Route ID Report

(Numerical By Route #)

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

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Valley Forge National Historical Park

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0905A		MUHLENBERG'S BRIGADE PULLOUT PARKING A	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		2,554	AS
0905B		MUHLENBERG'S BRIGADE PULLOUT PARKING B	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		2,430	AS
0905C		MUHLENBERG'S BRIGADE PULLOUT PARKING C	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		2,846	AS
0905D		MUHLENBERG'S BRIGADE PULLOUT PARKING D	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		1,703	AS
0905E		MUHLENBERG'S BRIGADE PULLOUT PARKING E	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		2,420	AS
0905F		MUHLENBERG'S BRIGADE PULLOUT PARKING F	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		2,539	AS
0906		NATIONAL MEMORIAL ARCH ACCESS AREA	FROM GULPH ROAD	TO GULPH ROAD	0.00	0.00	0.00	9		33,030	OT
0907A		NATIONAL MEMORIAL ARCH PARKING A	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		16,449	AS
0907B		NATIONAL MEMORIAL ARCH PARKING B	FROM ROUTE 0500	TO PARKING	0.00	0.00	0.00	9		9,546	AS
0908	39852	WAYNE'S WOODS PICNIC AREA PARKING	FROM ROUTE 0500	TO ROUTE 0500	0.00	0.00	0.00	9		38,752	AS
0909		WAYNE'S STATUE PARKING	FROM ROUTE 0500	TO ROUTE 0500	0.00	0.00	0.00	9		7,021	AS
0910		KNOX'S QUARTERS PARKING	FROM STATE ROUTE 252	TO STATE ROUTE 252	0.00	0.00	0.00	9		50,500	AS
0911		KNOX'S QUARTERS STABLE PARKING	FROM ROUTE 0103	TO PARKING	0.00	0.00	0.00	9		10,450	AS
0912		MOUNT MISERY PARKING	FROM YELLOW SPRINGS ROAD	TO PARKING	0.00	0.00	0.00	9		3,784	GR
0913		MAXWELL'S QUARTERS PARKING	FROM ROUTE 0102	TO PARKING	0.00	0.00	0.00	9		907	AS
0914		LORD STIRLING'S QUARTERS PARKING	FROM YELLOW SPRINGS ROAD	TO PARKING	0.00	0.00	0.00	9		1,921	AS
0915		LAFAYETTE'S QUARTERS PARKING	FROM WILSON ROAD	TO PARKING	0.00	0.00	0.00	9		2,855	GR
0916		WHITTLE HOUSE PARKING	FROM WILSON ROAD	TO PARKING	0.00	0.00	0.00	9		5,403	AS
0917	39863	STEUBEN MEMORIAL INFORMATION CENTER PARKING	FROM STATE ROUTE 23	TO PARKING	0.00	0.00	0.00	9		28,102	AS
0918A		WASHINGTON'S HEADQUARTERS UPPER PARKING A	FROM ROUTE 0502	TO PARKING	0.00	0.00	0.00	9		21,912	AS
0918B		WASHINGTON'S HEADQUARTERS UPPER PARKING B	FROM ROUTE 0502	TO ROUTE 0502	0.00	0.00	0.00	9		25,774	AS
0919	39869	VALLEY FORGE TRAIN STATION PARKING	FROM ROUTE 0502	TO PARKING	0.00	0.00	0.00	9		11,202	AS
0920		WASHINGTON'S HEADQUARTERS BUS PARKING	FROM ROUTE 0502	TO PARKING	0.00	0.00	0.00	9		5,198	AS
0921		WASHINGTON'S HEADQUARTERS PARKING	FROM ROUTE 0502	TO STATE ROUTE 23	0.00	0.00	0.00	9		72,122	AS

NPS/RIP Route ID Report

(Numerical By Route #)

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White = Paved Routes, ARAN Driven
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Grey = Paved Routes, ARAN not Driven
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Purple =

VAFO

Valley Forge National Historical Park

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0922		PAWLINGS PICNIC AREA PARKING	FROM PAWLING ROAD	TO PARKING	0.00	0.00	0.00	9		17,446	GR
0923		CENTER FOR CULTURAL RESOURCES PARKING	FROM ORCHARD LANE	TO PARKING	0.00	0.00	0.00	9		7,920	GR
0924	39871	REDOUBT 4 PARKING	FROM ROUTE 0213	TO ROUTE 0213	0.00	0.00	0.00	9		32,305	AS
0925A		OBSERVATION TOWER PARKING A	FROM ROUTE 0104	TO PARKING	0.00	0.00	0.00	9		11,168	AS
0925B		OBSERVATION TOWER PARKING B	FROM ROUTE 0104	TO PARKING	0.00	0.00	0.00	9		11,279	AS
0926	39872	REDOUBT 3 PARKING	FROM ROUTE 0501	TO ROUTE 0501	0.00	0.00	0.00	9		5,155	AS
0927	39847	ARTILLERY PARK PARKING	FROM ROUTE 0501	TO ROUTE 0501	0.00	0.00	0.00	9		48,010	AS
0928		CONWAY'S BRIGADE PARKING	FROM ROUTE 0501	TO ROUTE 0501	0.00	0.00	0.00	9		46,874	AS
0929	39864	VARNUM'S PARKING	FROM STATE ROUTE 23	TO ROUTE 0501	0.00	0.00	0.00	9		26,011	AS
0930	39858	VARNUM'S PICNIC AREA PARKING	FROM STATE ROUTE 23	TO PARKING	0.00	0.00	0.00	9		37,527	AS
0931	39862	HUNTINGTON'S QUARTERS PARKING	FROM STATE ROUTE 23	TO PARKING	0.00	0.00	0.00	9		37,094	AS
0932	39876	MAINTENANCE AREA	FROM ROUTE 0413	TO ROUTE 0413	0.00	0.00	0.00	9		71,344	AS
0933		KENNEDY MANSION PARKING	FROM STATE ROUTE 23	TO PARKING	0.00	0.00	0.00	9		50,239	AS
0934	39870	PORT KENNEDY TRAIN STATION PARKING	FROM OLD TROOPER ROAD	TO PARKING	0.00	0.00	0.00	9		20,500	AS
0935		BETZWOOD PICNIC AREA BOAT RAMP PARKING	FROM ROUTE 0201	TO PARKING	0.00	0.00	0.00	9		14,103	AS
0936		BETZWOOD PICNIC AREA TRAILER PARKING	FROM ROUTE 0935	TO PARKING	0.00	0.00	0.00	9		15,732	GR
0937		BETZWOOD BIKE PATH PARKING	FROM ROUTE 0201	TO ROUTE 0201	0.00	0.00	0.00	9		9,102	AS
0938A		BETZWOOD PICNIC AREA PARKING A	FROM ROUTE 0201	TO PARKING	0.00	0.00	0.00	9		3,429	AS
0938B		BETZWOOD PICNIC AREA PARKING B	FROM ROUTE 0201	TO PARKING	0.00	0.00	0.00	9		5,405	AS
0938C		BETZWOOD PICNIC AREA PARKING C	FROM ROUTE 0201	TO PARKING	0.00	0.00	0.00	9		4,774	AS
0938D		BETZWOOD PICNIC AREA PARKING D	FROM ROUTE 0201	TO PARKING	0.00	0.00	0.00	9		2,691	AS
0939		LOUGHLIN HOUSE PARKING	FROM TROOPER ROAD	TO PARKING	0.00	0.00	0.00	9		3,237	AS
0940		RANGER STATION PARKING	FROM NORTH GULPH ROAD	TO PARKING	0.00	0.00	0.00	9		15,007	AS
0941		SNYDER HOUSE PARKING	FROM THOMAS ROAD	TO PARKING	0.00	0.00	0.00	9		6,360	AS
0942		EVANS HOUSE PARKING	FROM THOMAS ROAD	TO PARKING	0.00	0.00	0.00	9		2,969	AS
0943		PINE PARKING	FROM COUNTY LINE ROAD	TO PARKING	0.00	0.00	0.00	9		4,800	GR
0944		REDOUBT 4 OVERFLOW PARKING	FROM ROUTE 0213	TO PARKING	0.00	0.00	0.00	9		2,154	AS
				Totals:	8.42	4.36	**12.78**			1,206,370	

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
Red text denotes approx. mileage

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

General Park Road Functional Classification Table

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

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

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

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

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

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

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

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

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

****

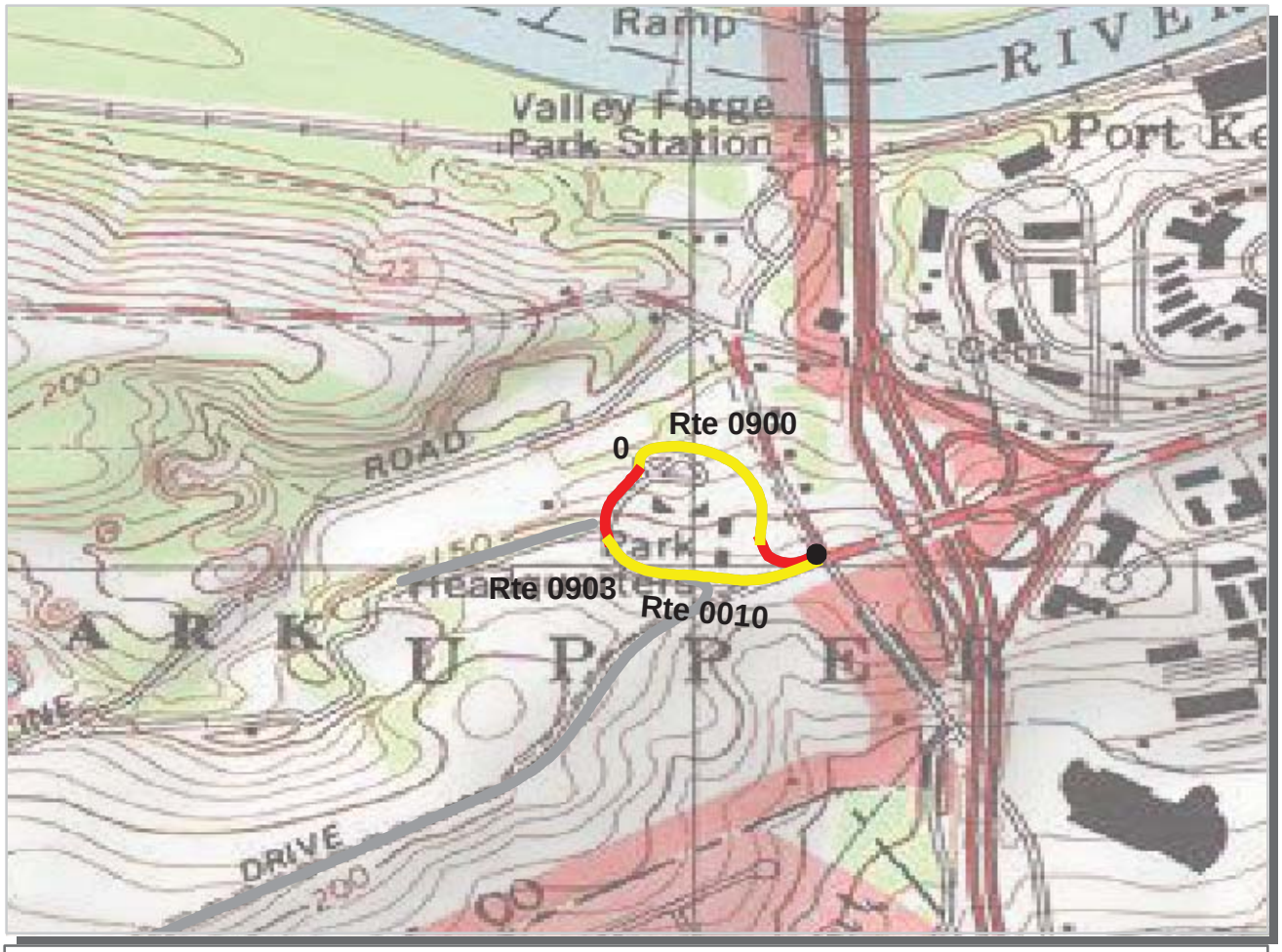
A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed,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

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

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

Surface Type Abbreviations:

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



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

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

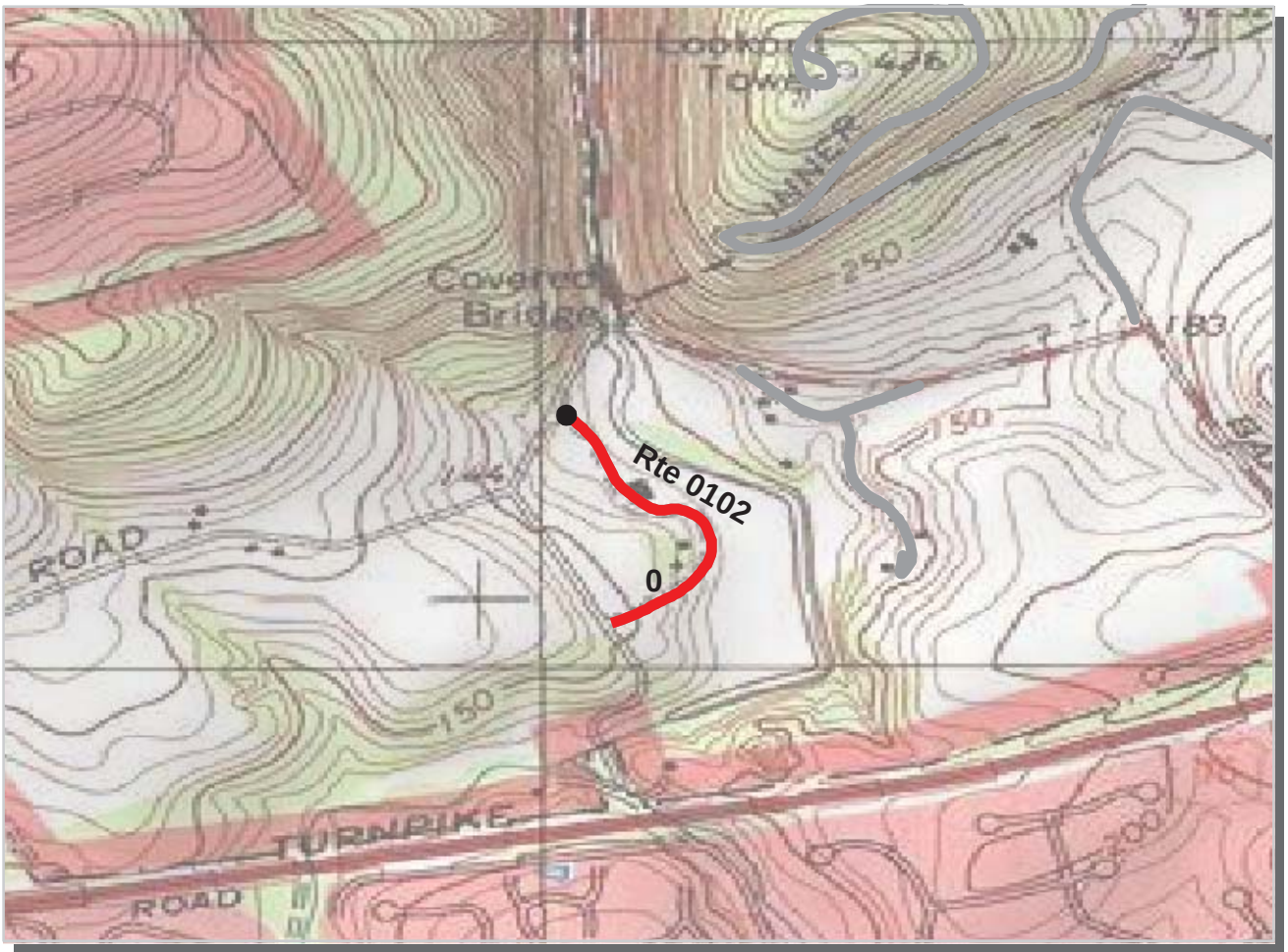
Northeast Region
VAFO : Valley Forge National Historical Park

ROUTE: 0010 Visitor Center Access Road **TOTAL LENGTH: 0.52 Miles**

Section Number	0				
Section Length (mi)	0.52				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	66				
RCI (Roughness Condition Index)	68				
SCR (Surface Condition Rating)	67				
Alligator Cracking Index	100				
Rutting Index	69				
Patching Index	99				
Tranverse Cracking Index	98				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	POOR				
Drainage Condition Rating	POOR				

* NC designates data not collected NA designates not applicable

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



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

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

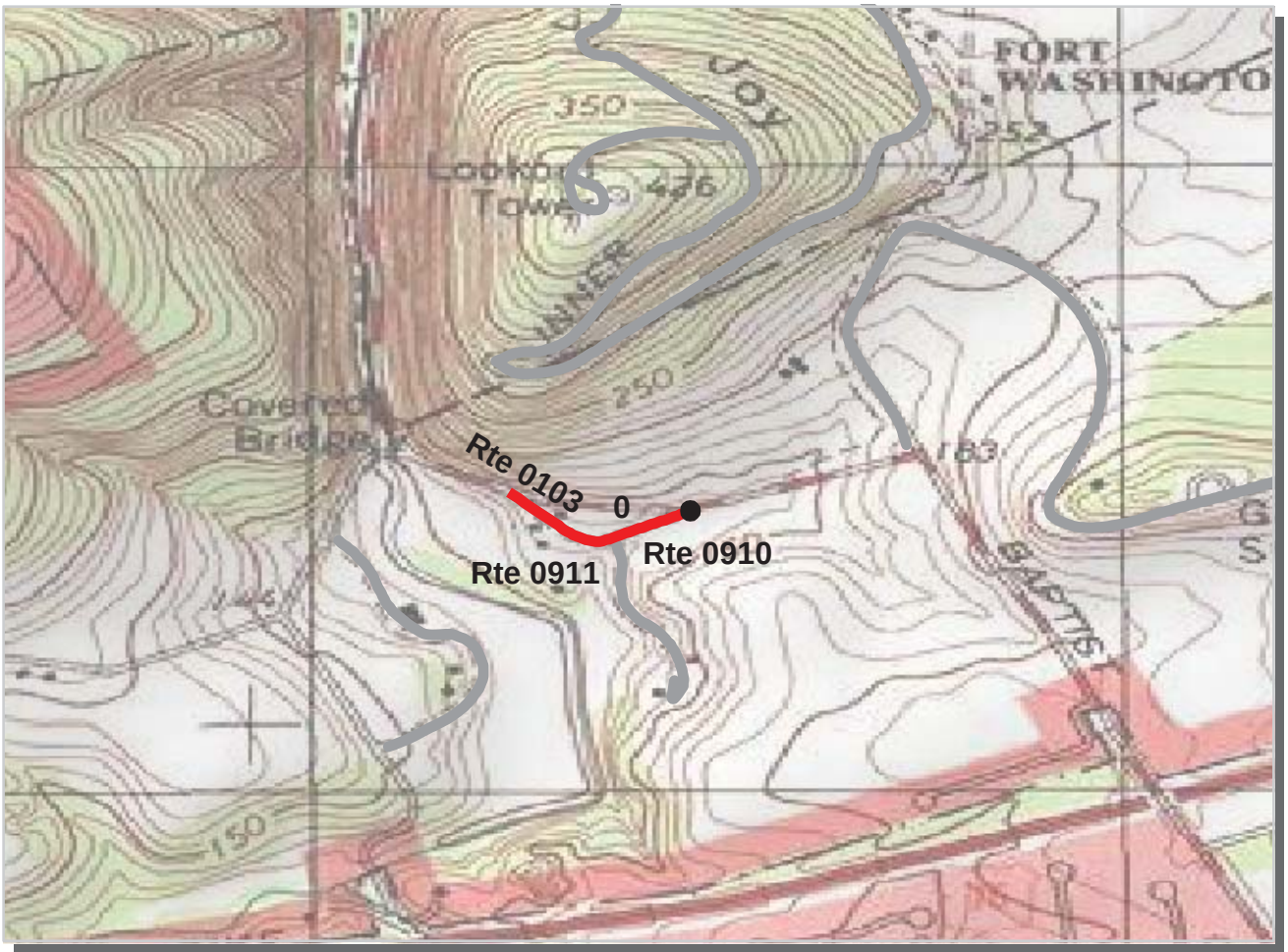
Northeast Region
VAFO : Valley Forge National Historical Park

ROUTE: 0102 Maxwells Drive **TOTAL LENGTH: 0.31 Miles**

Section Number	0				
Section Length (mi)	0.31				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	25				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	25				
Alligator Cracking Index	71				
Rutting Index	50				
Patching Index	99				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	POOR				
Drainage Condition Rating	POOR				

* NC designates data not collected NA designates not applicable

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



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

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

Northeast Region

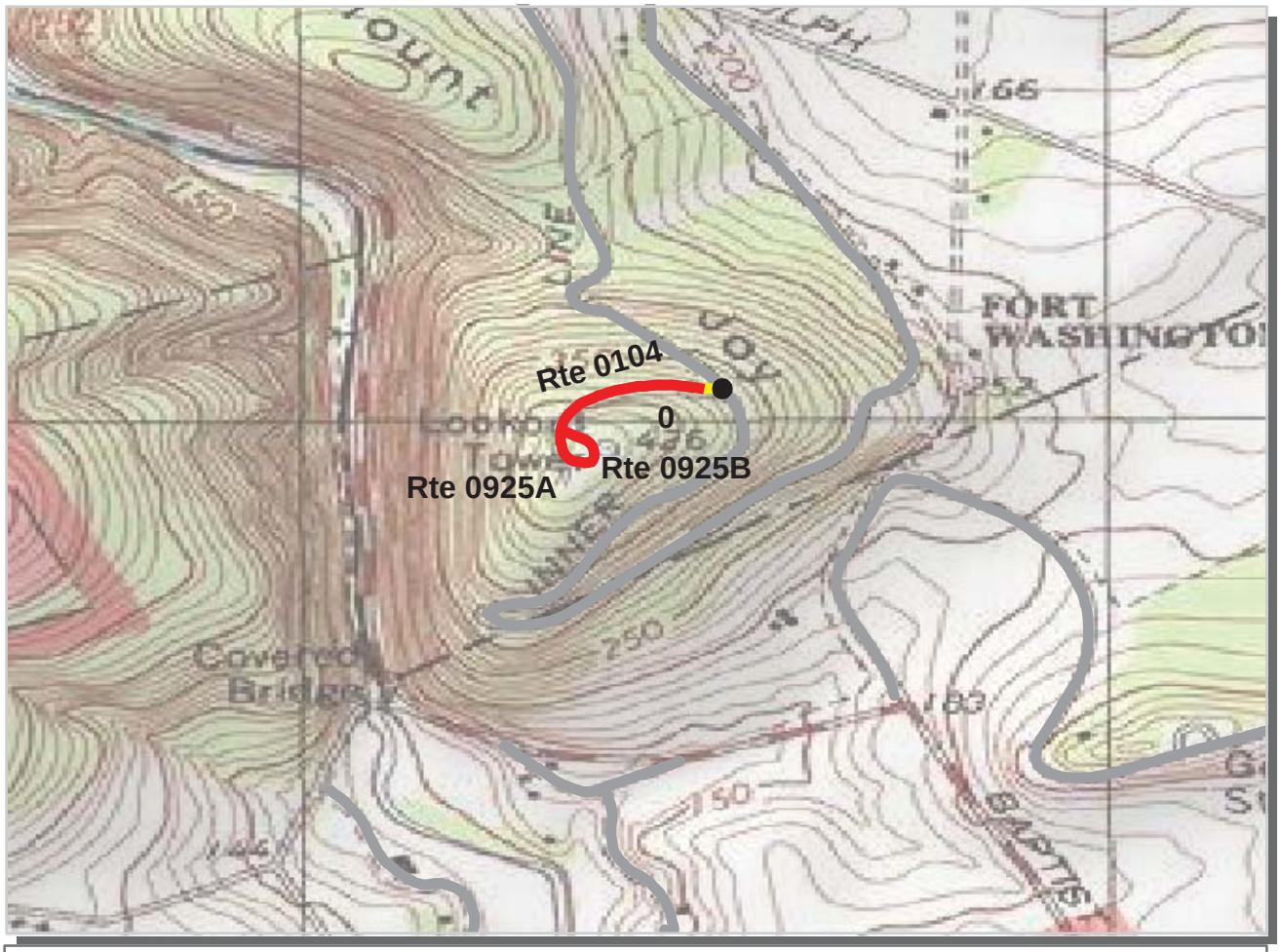
VAFO : Valley Forge National Historical Park

ROUTE: 0103 Knox'S Quarters Access Road **TOTAL LENGTH: 0.18 Miles**

Section Number	0				
Section Length (mi)	0.18				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	7				
RCI (Roughness Condition Index)	32				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	31				
Rutting Index	23				
Patching Index	99				
Tranverse Cracking Index	96				
Longitudinal Cracking Index	94				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

* NC designates data not collected NA designates not applicable

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



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

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

Northeast Region

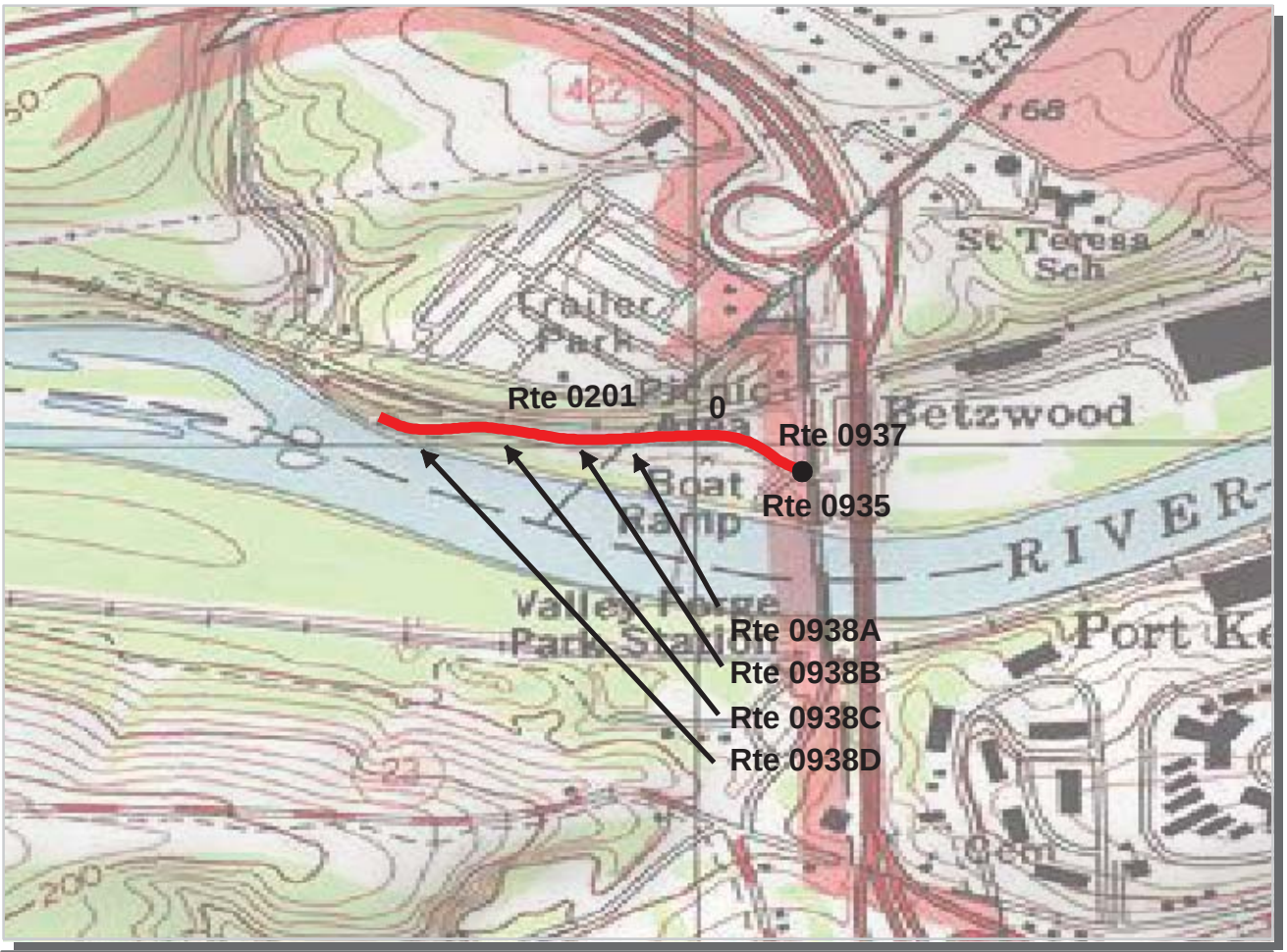
VAFO : Valley Forge National Historical Park

ROUTE: 0104 Observation Tower Road **TOTAL LENGTH: 0.25 Miles**

Section Number	0				
Section Length (mi)	0.25				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	10				
Shoulder Width (ft)	9				
Roadway Condition Information					
PCR (Pavement Condition Rating)	48				
RCI (Roughness Condition Index)	36				
SCR (Surface Condition Rating)	51				
Alligator Cracking Index	95				
Rutting Index	62				
Patching Index	100				
Tranverse Cracking Index	96				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

* NC designates data not collected NA designates not applicable

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



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

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

Northeast Region

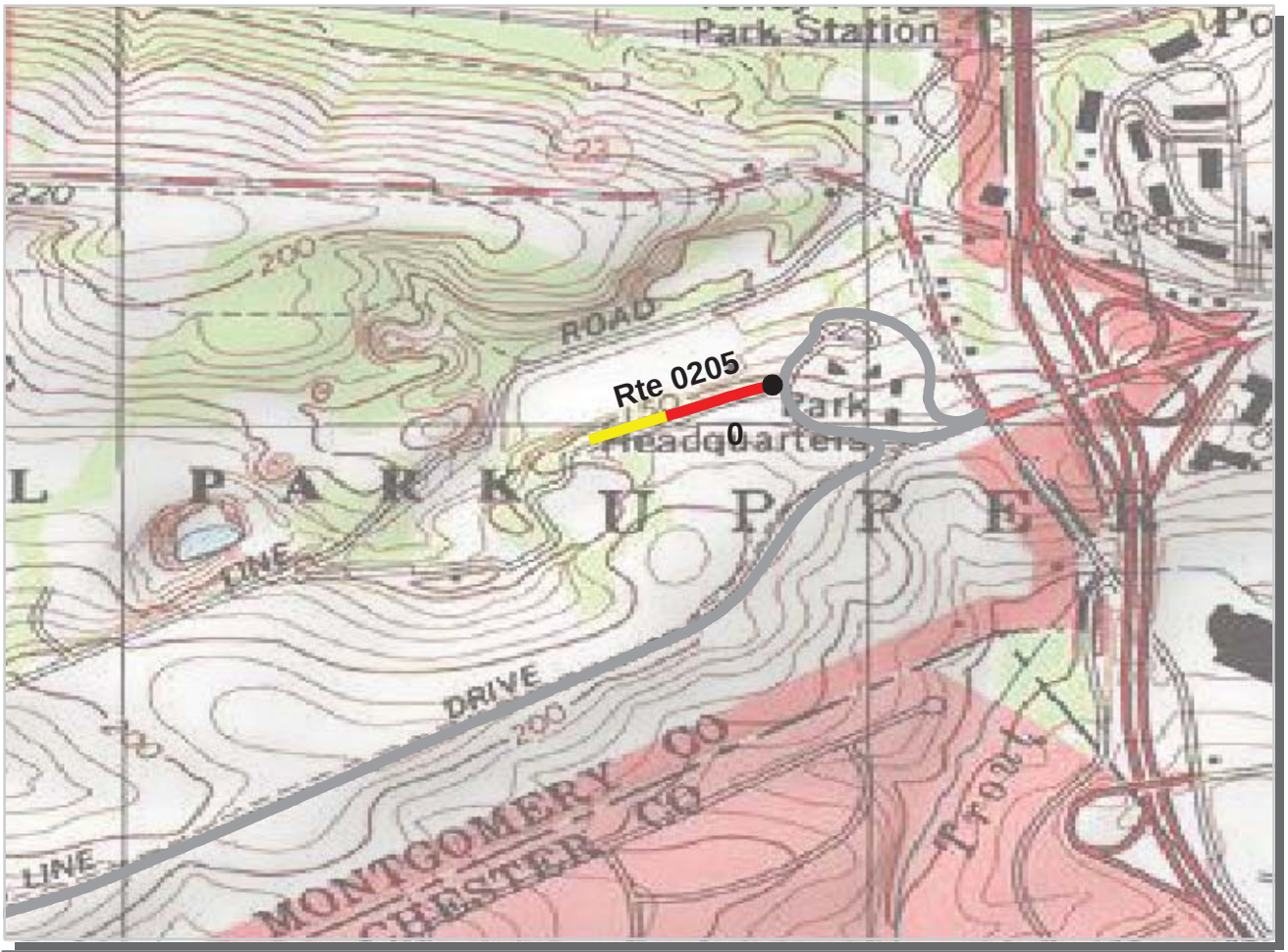
VAFO : Valley Forge National Historical Park

ROUTE: 0201 Betzwood Picnic Area Road **TOTAL LENGTH: 0.35 Miles**

Section Number	0				
Section Length (mi)	0.35				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	16				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	27				
RCI (Roughness Condition Index)	52				
SCR (Surface Condition Rating)	18				
Alligator Cracking Index	66				
Rutting Index	48				
Patching Index	99				
Tranverse Cracking Index	88				
Longitudinal Cracking Index	85				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

* NC designates data not collected NA designates not applicable

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



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

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

Northeast Region

VAFO : Valley Forge National Historical Park

ROUTE: 0205 Amphitheater Access Road **TOTAL LENGTH: 0.17 Miles**

Section Number	0				
Section Length (mi)	0.17				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	14				
Shoulder Width (ft)	7				
Roadway Condition Information					
PCR (Pavement Condition Rating)	59				
RCI (Roughness Condition Index)	70				
SCR (Surface Condition Rating)	59				
Alligator Cracking Index	99				
Rutting Index	65				
Patching Index	100				
Tranverse Cracking Index	94				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	POOR				
Drainage Condition Rating	POOR				

* NC designates data not collected NA designates not applicable

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

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

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

Northeast Region

VAFO : Valley Forge National Historical Park

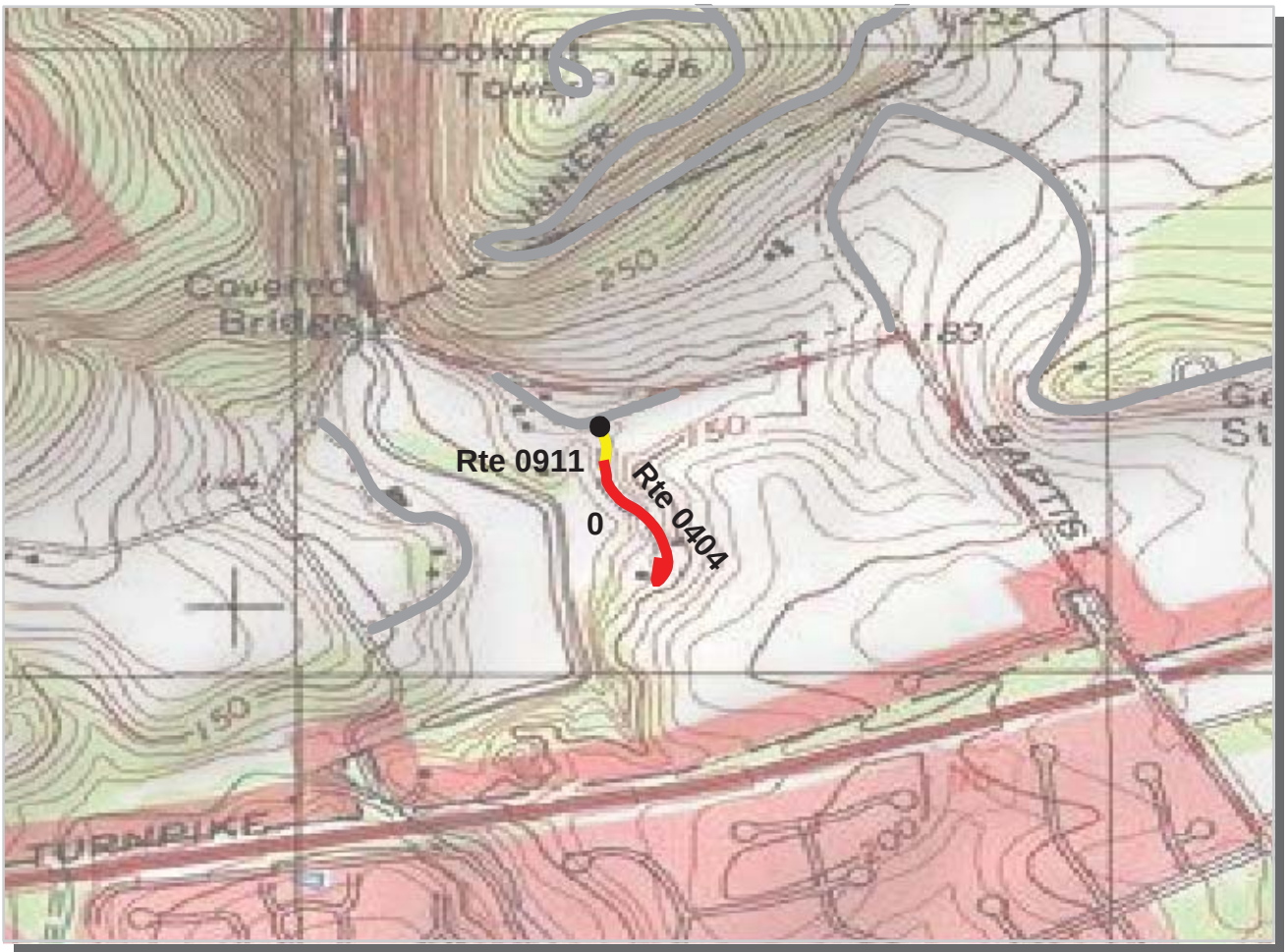
ROUTE: 0213 Redoubt 4 Road **TOTAL LENGTH: 0.14 Miles**

Section Number	0				
Section Length (mi)	0.14				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	10				
Shoulder Width (ft)	9				
Roadway Condition Information					
PCR (Pavement Condition Rating)	11				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	11				
Alligator Cracking Index	47				
Rutting Index	32				
Patching Index	98				
Tranverse Cracking Index	93				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	POOR				
Drainage Condition Rating	POOR				

* NC designates data not collected NA designates not applicable

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

ROUTE: 0213 Redoubt 4 Road



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

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

Northeast Region

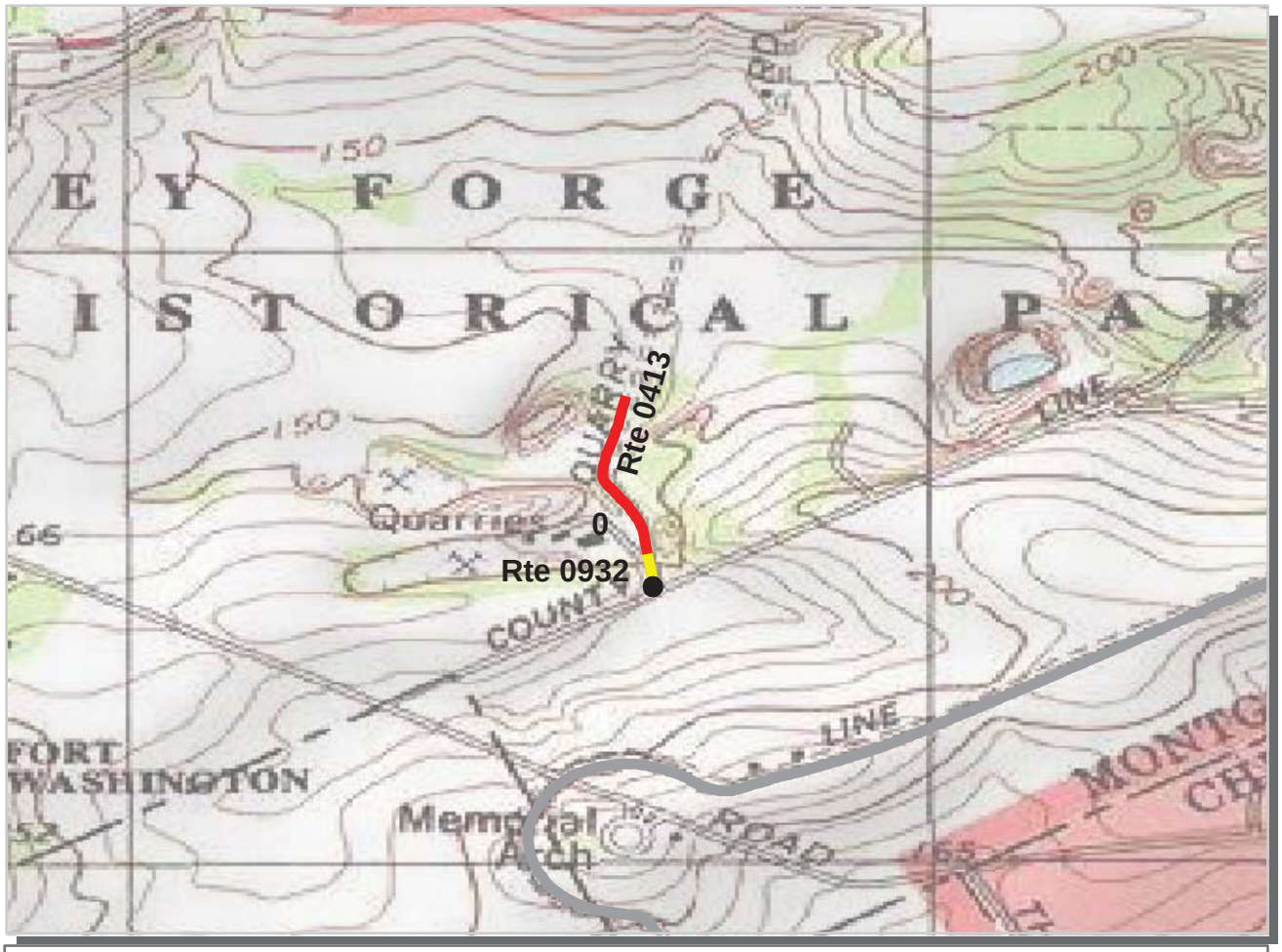
VAFO : Valley Forge National Historical Park

ROUTE: 0404 Superintendents Residence Access Road **TOTAL LENGTH: 0.22 Miles**

Section Number	0				
Section Length (mi)	0.22				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	39				
RCI (Roughness Condition Index)	81				
SCR (Surface Condition Rating)	36				
Alligator Cracking Index	90				
Rutting Index	52				
Patching Index	99				
Tranverse Cracking Index	92				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/C				
Drainage Condition Rating	N/C				

* NC designates data not collected NA designates not applicable

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



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

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

Northeast Region

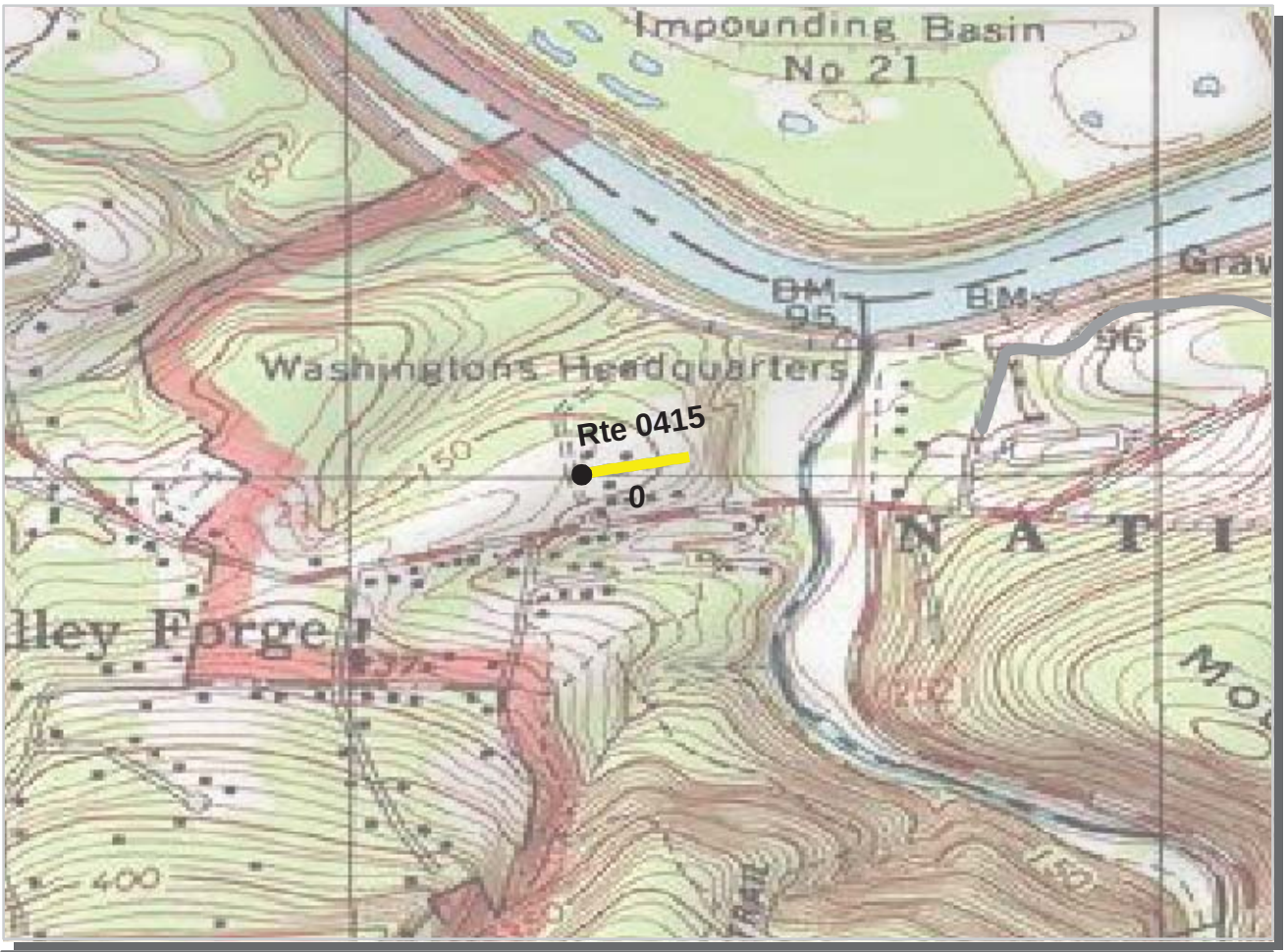
VAFO : Valley Forge National Historical Park

ROUTE: 0413 Quarry Road **TOTAL LENGTH: 0.22 Miles**

Section Number	0				
Section Length (mi)	0.22				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	10				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	38				
RCI (Roughness Condition Index)	23				
SCR (Surface Condition Rating)	40				
Alligator Cracking Index	95				
Rutting Index	45				
Patching Index	99				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/C				
Drainage Condition Rating	N/C				

* NC designates data not collected NA designates not applicable

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



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

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

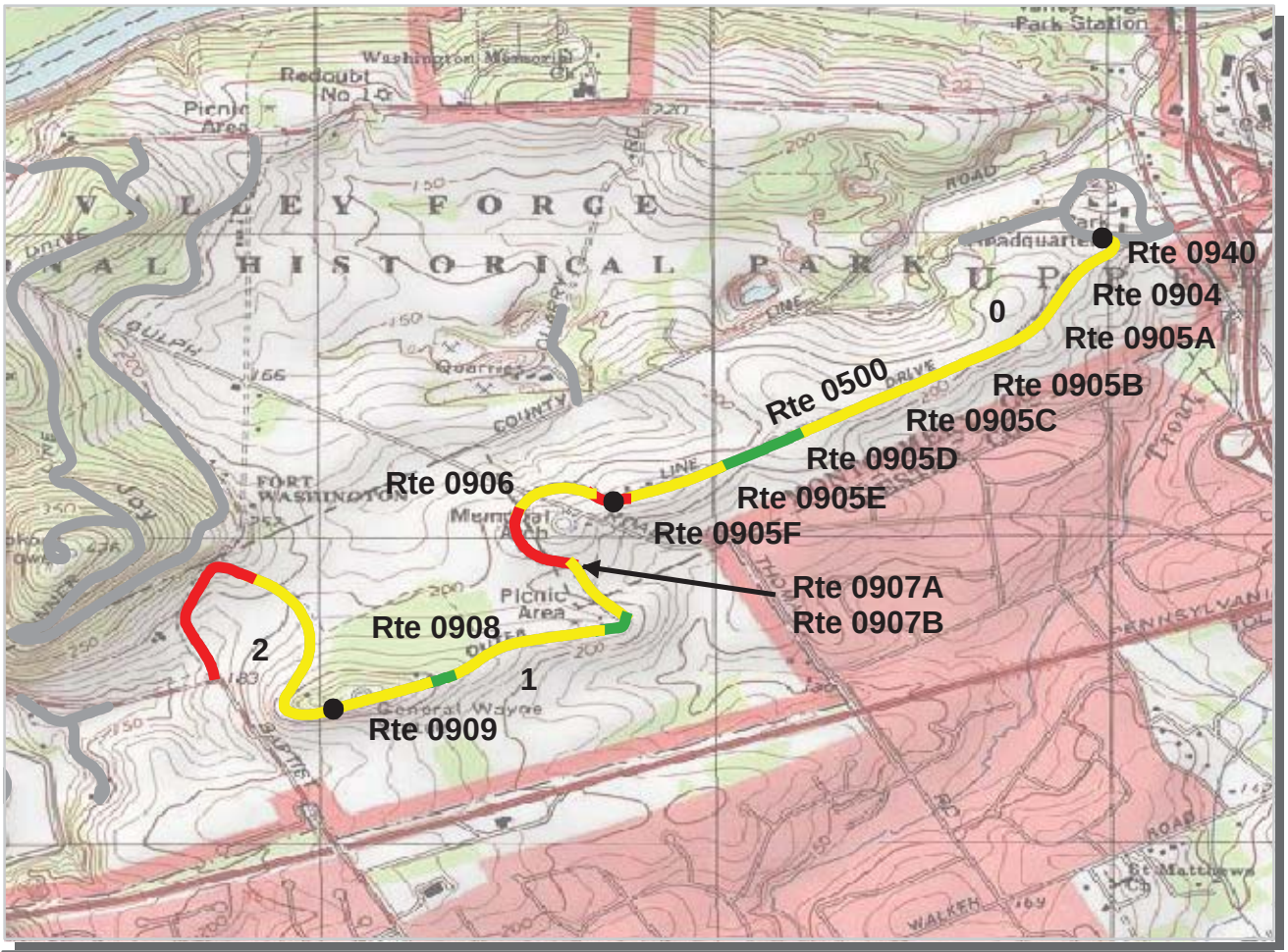
Northeast Region
VAFO : Valley Forge National Historical Park

ROUTE: 0415 Samuel Brittain Lane **TOTAL LENGTH: 0.09 Miles**

Section Number	0				
Section Length (mi)	0.09				
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)	62				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	62				
Alligator Cracking Index	99				
Rutting Index	65				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

* NC designates data not collected NA designates not applicable

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



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

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

Northeast Region

VAFO : Valley Forge National Historical Park

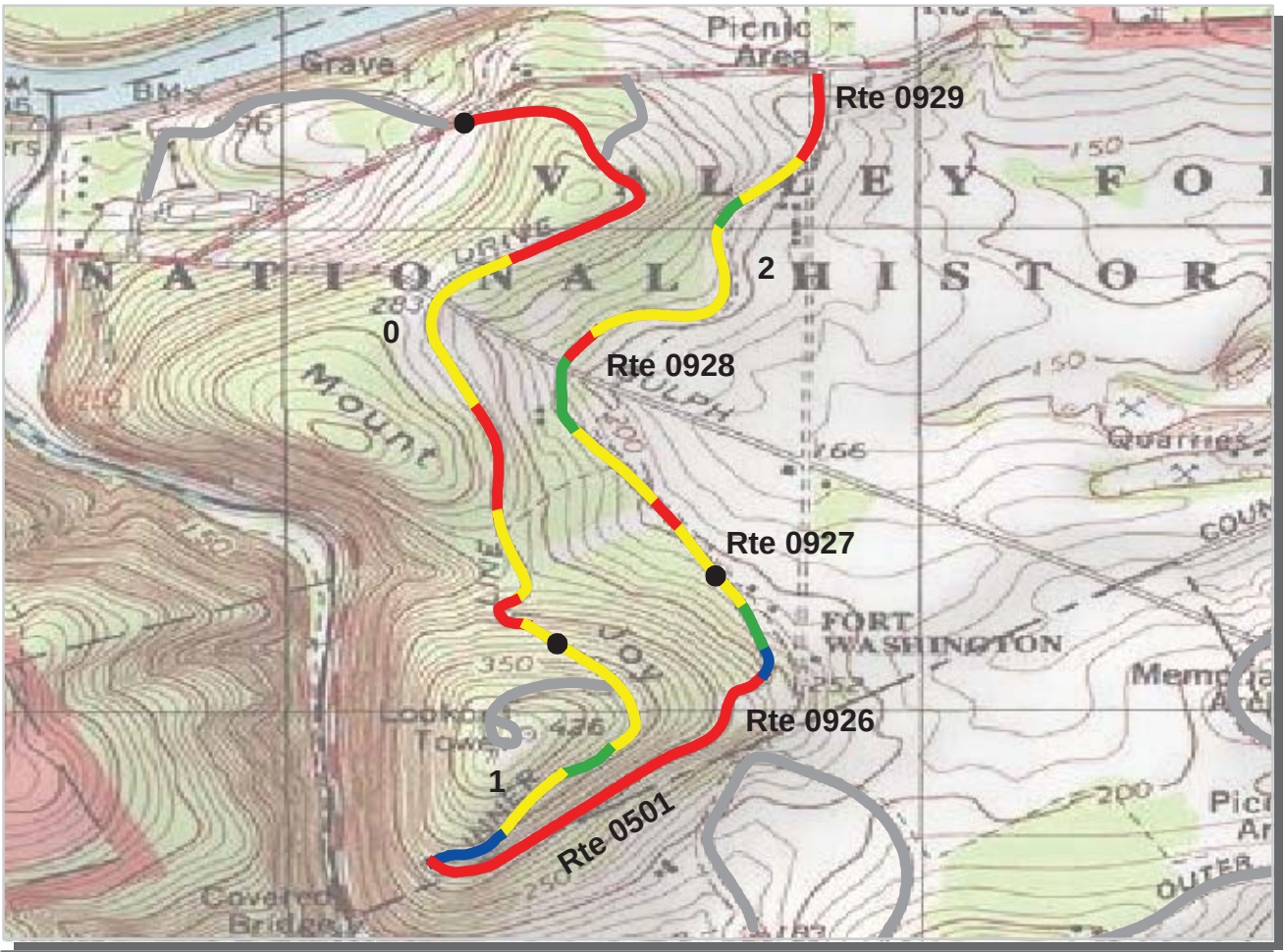
ROUTE: 0500 Outer Line Drive **TOTAL LENGTH: 2.71 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.71		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1	1	1		
Paved Width (ft)	13	13	16		
Lane Width (ft)	13	13	16		
Shoulder Width (ft)	5	5	5		
Roadway Condition Information					
PCR (Pavement Condition Rating)	73	71	57		
RCI (Roughness Condition Index)	93	81	72		
SCR (Surface Condition Rating)	63	67	49		
Alligator Cracking Index	99	99	94		
Rutting Index	67	69	59		
Patching Index	98	99	99		
Tranverse Cracking Index	98	98	98		
Longitudinal Cracking Index	98	99	91		
Shoulder Condition Rating	N/C	N/C	N/C		
Drainage Condition Rating	N/C	N/C	POOR		

* NC designates data not collected NA designates not applicable

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

ROUTE: 0500 Outer Line Drive



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

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

Northeast Region

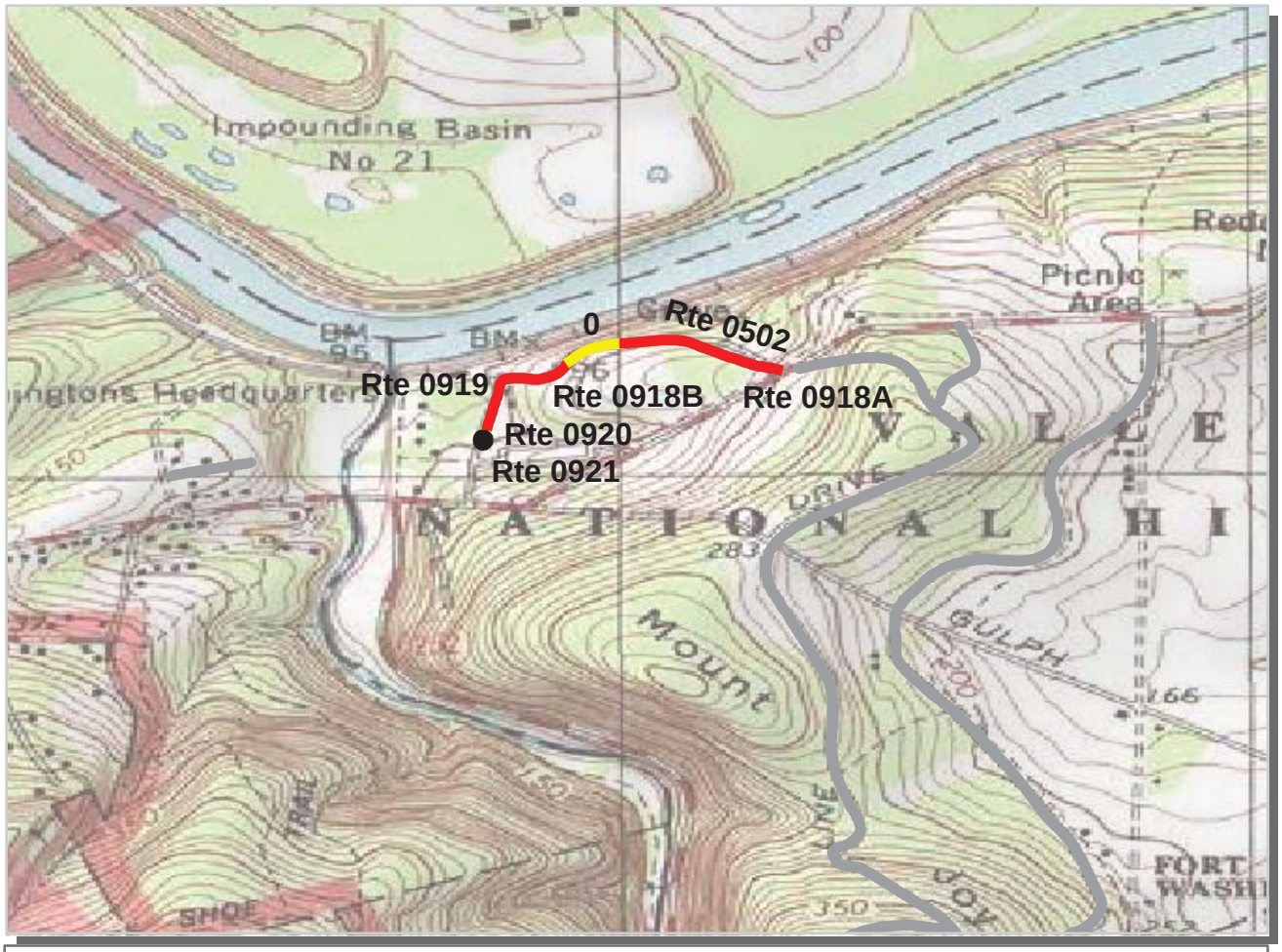
VAFO : Valley Forge National Historical Park

ROUTE: 0501 Inner Line Drive **TOTAL LENGTH: 2.86 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.86		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1	1	1		
Paved Width (ft)	16	11	12		
Lane Width (ft)	16	11	12		
Shoulder Width (ft)	0	0	0		
Roadway Condition Information					
PCR (Pavement Condition Rating)	47	58	68		
RCI (Roughness Condition Index)	60	75	62		
SCR (Surface Condition Rating)	41	47	71		
Alligator Cracking Index	63	69	96		
Rutting Index	76	73	81		
Patching Index	99	100	100		
Tranverse Cracking Index	97	99	98		
Longitudinal Cracking Index	96	95	94		
Shoulder Condition Rating	N/A	N/A	N/A		
Drainage Condition Rating	POOR	POOR	POOR		

* NC designates data not collected NA designates not applicable

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



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

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

Northeast Region

VAFO : Valley Forge National Historical Park

ROUTE: 0502 River Road **TOTAL LENGTH: 0.40 Miles**

Section Number	0				
Section Length (mi)	0.40				
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)	48				
SCR (Surface Condition Rating)	29				
Alligator Cracking Index	81				
Rutting Index	47				
Patching Index	94				
Tranverse Cracking Index	96				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

* NC designates data not collected NA designates not applicable

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

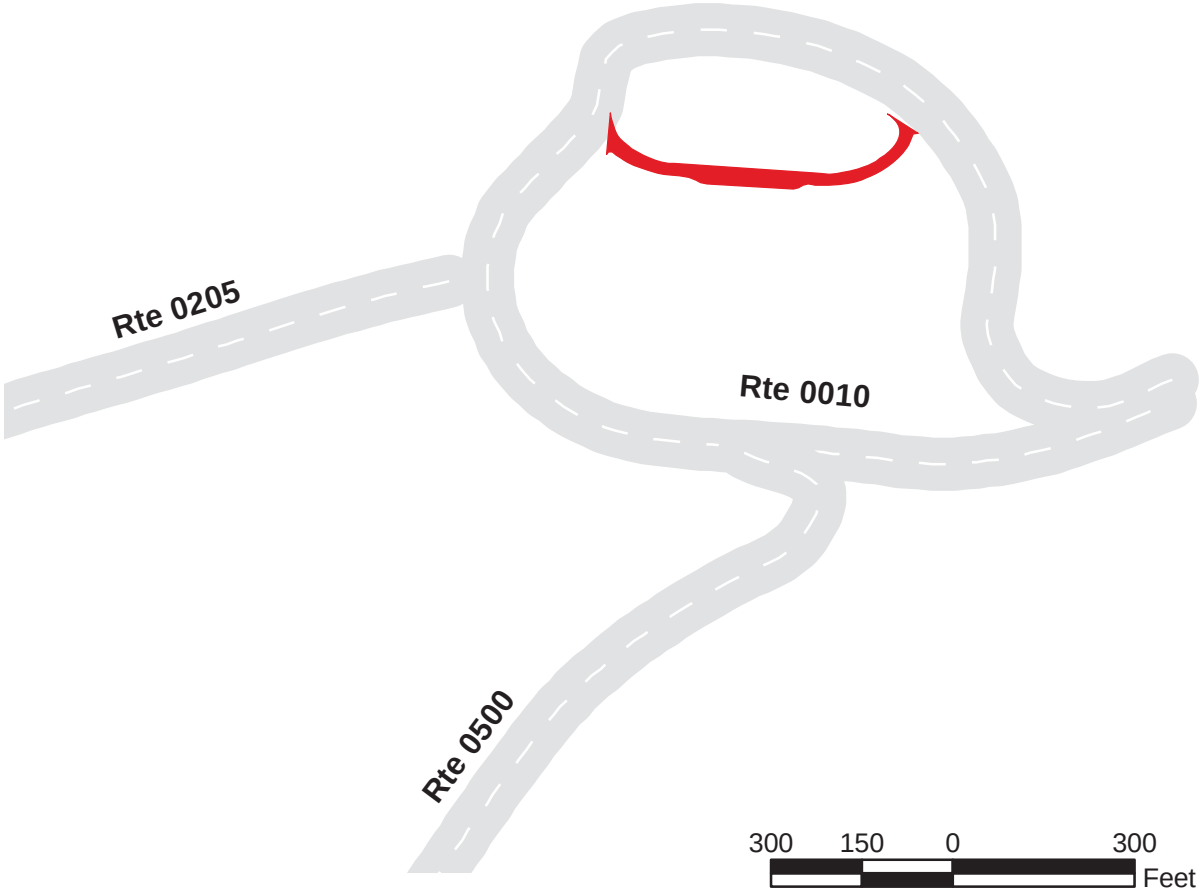
VAFO: Manually Rated Paved Route Condition Rating Sheets

No data available for this section

Valley Forge National Historical Park
Route 0900
Visitor Center Drop Off Loop
FROM ROUTE 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	6/29/2002	9882	0.17	AS	GOOD / 90

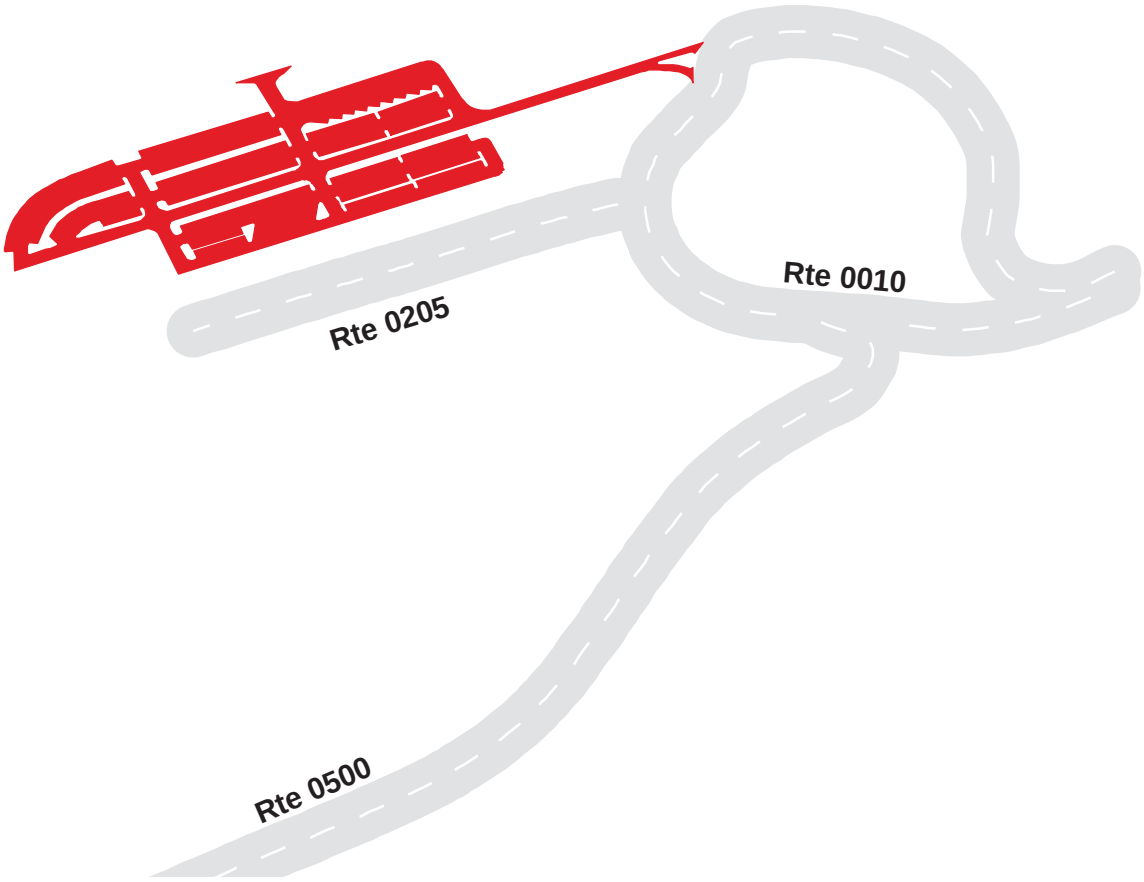
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0901
Visitor Center Parking
FROM ROUTE 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	6/29/2002	203738	3.51	AS	GOOD / 90

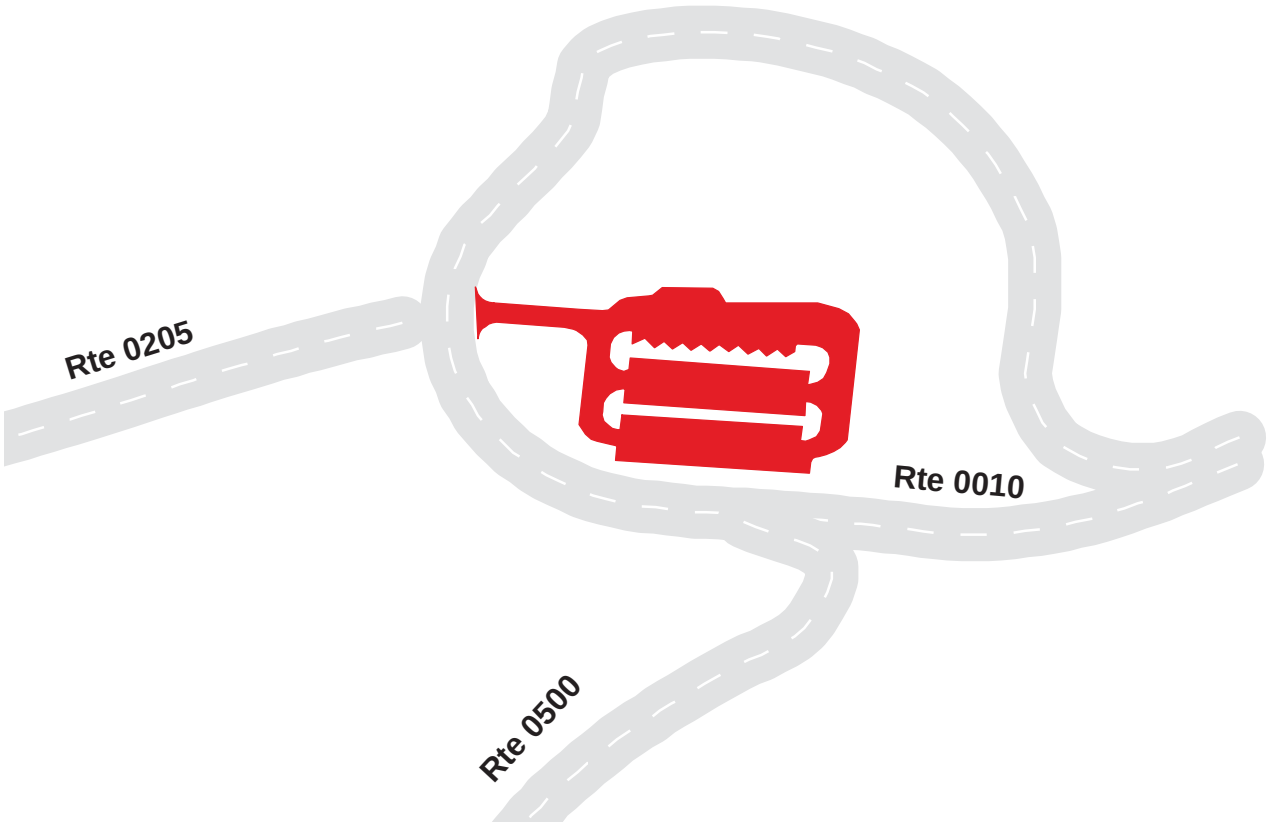
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0903
Administrative And Handicapped Visitor Center Parking
FROM ROUTE 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	Public	6/29/2002	58857	1.01	AS	FAIR / 73

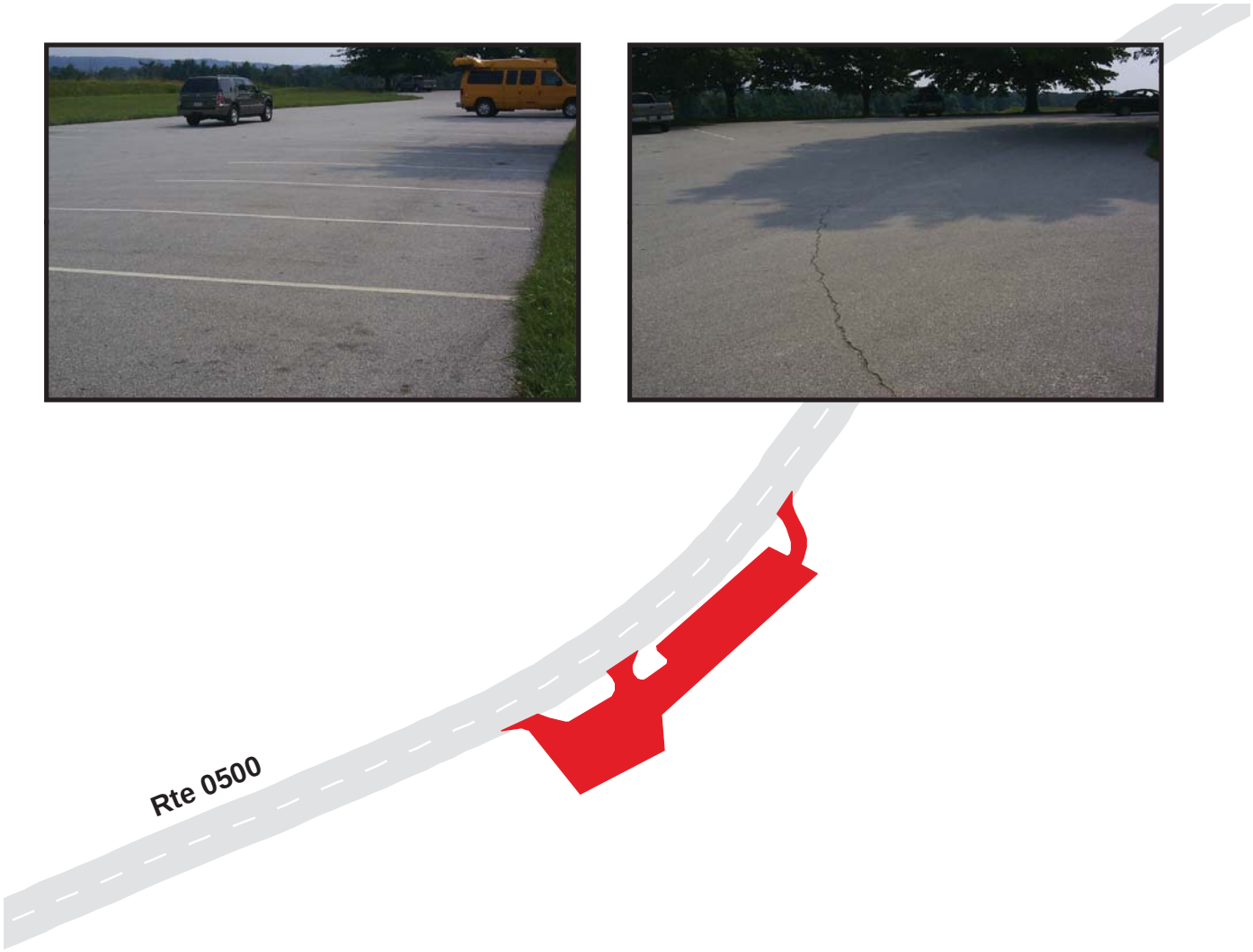
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0904
Muhlenberg's Brigade Parking
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	Public	7/1/2002	24918	0.43	AS	GOOD / 90

* Lane miles are based on 11' lane widths



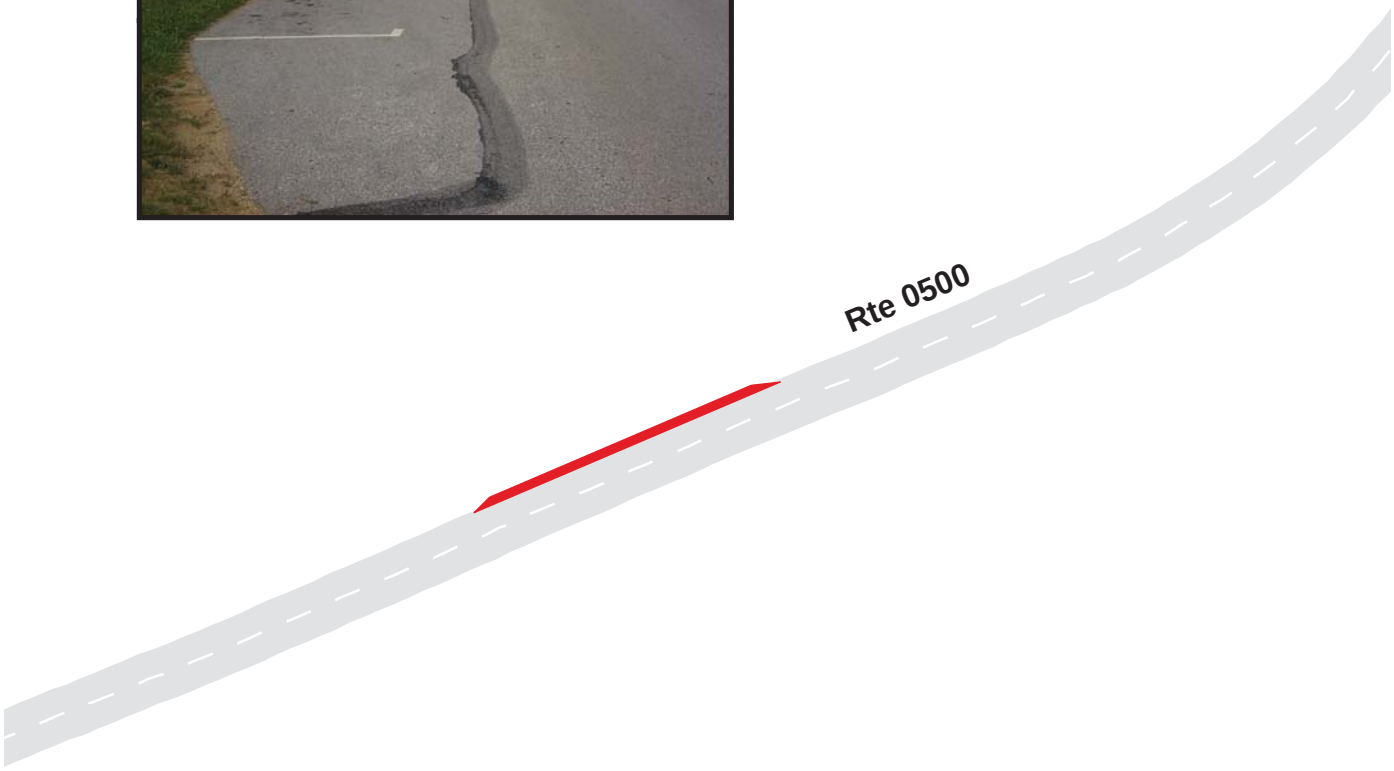
200 100 0 200 Feet

N

Valley Forge National Historical Park
Route 0905A
Muhlenberg's Brigade Pullout Parking A
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905A	Public	7/1/2002	2554	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



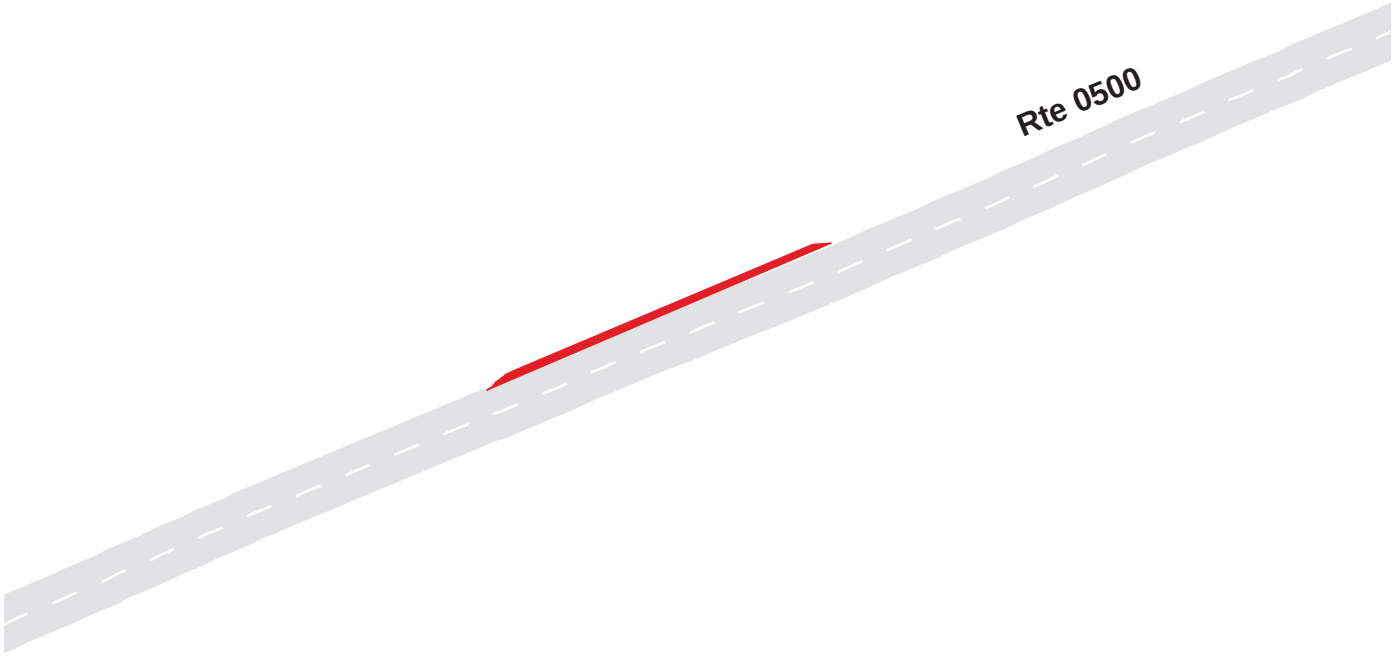
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0905B
Muhlenberg's Brigade Pullout Parking B
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905B	Public	7/1/2002	2430	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



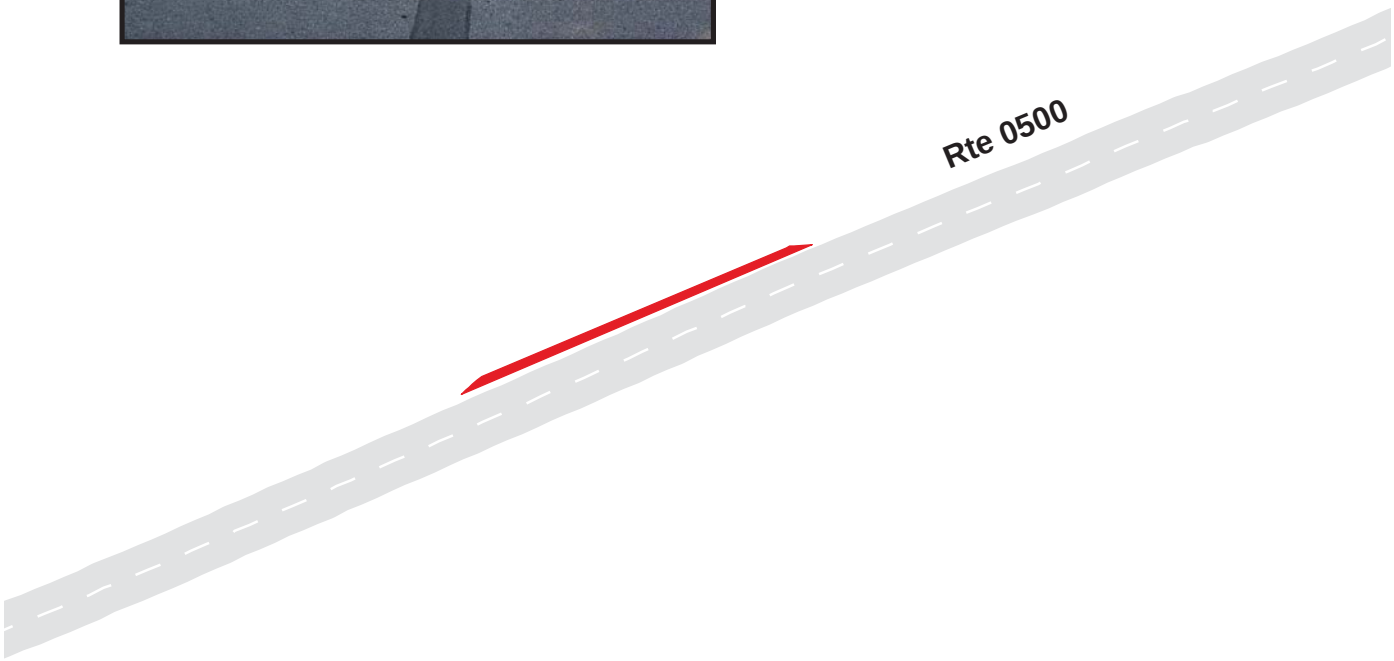
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0905C
Muhlenberg's Brigade Pullout Parking C
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905C	Public	7/1/2002	2846	0.05	AS	GOOD / 90

* Lane miles are based on 11' lane widths



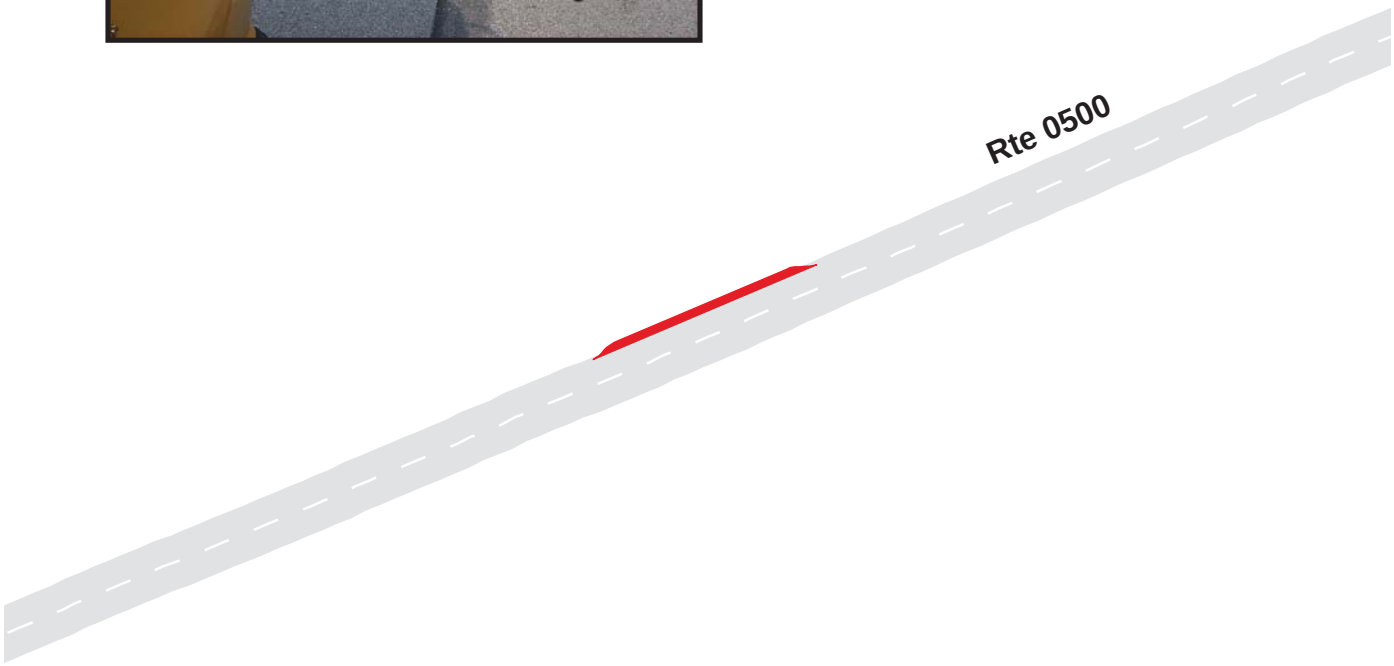
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0905D
Muhlenberg's Brigade Pullout Parking D
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905D	Public	7/1/2002	1703	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



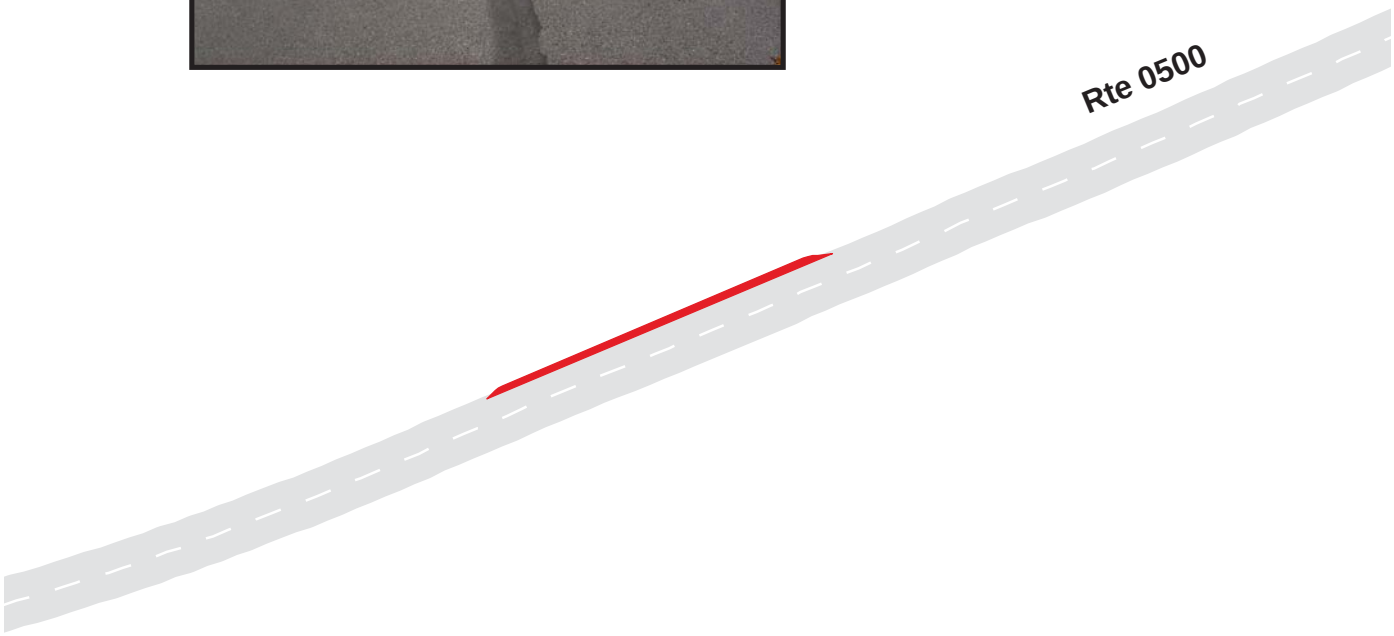
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0905E
Muhlenberg's Brigade Pullout Parking E
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905E	Public	7/1/2002	2420	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



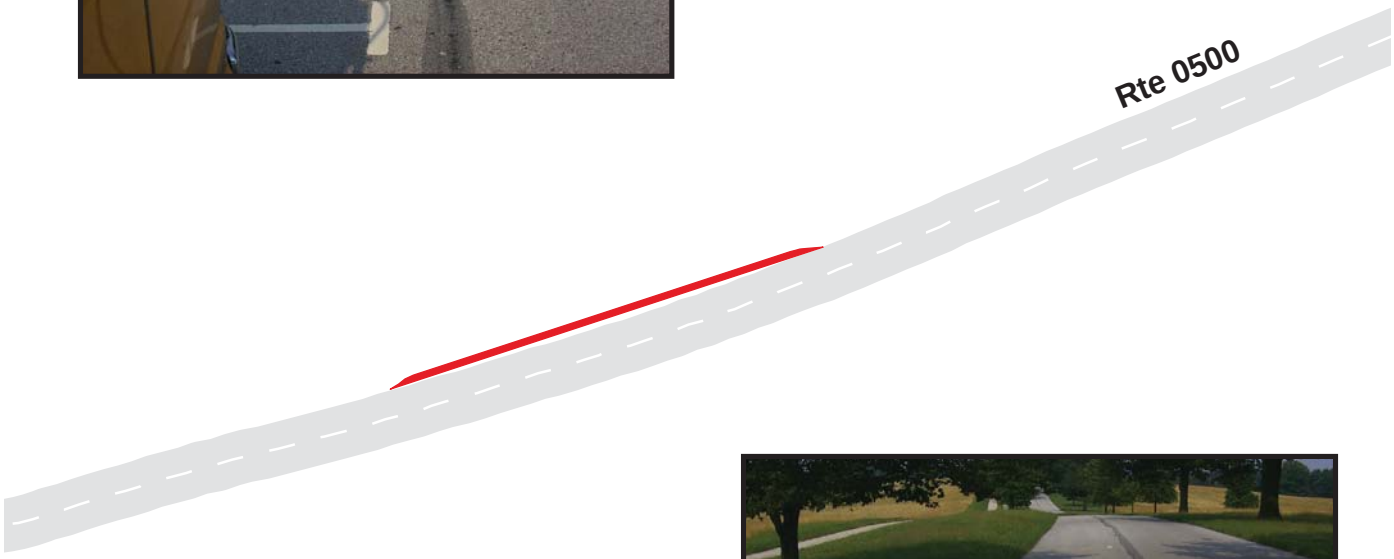
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0905F
Muhlenberg's Brigade Pullout Parking F
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905F	Public	7/1/2002	2539	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



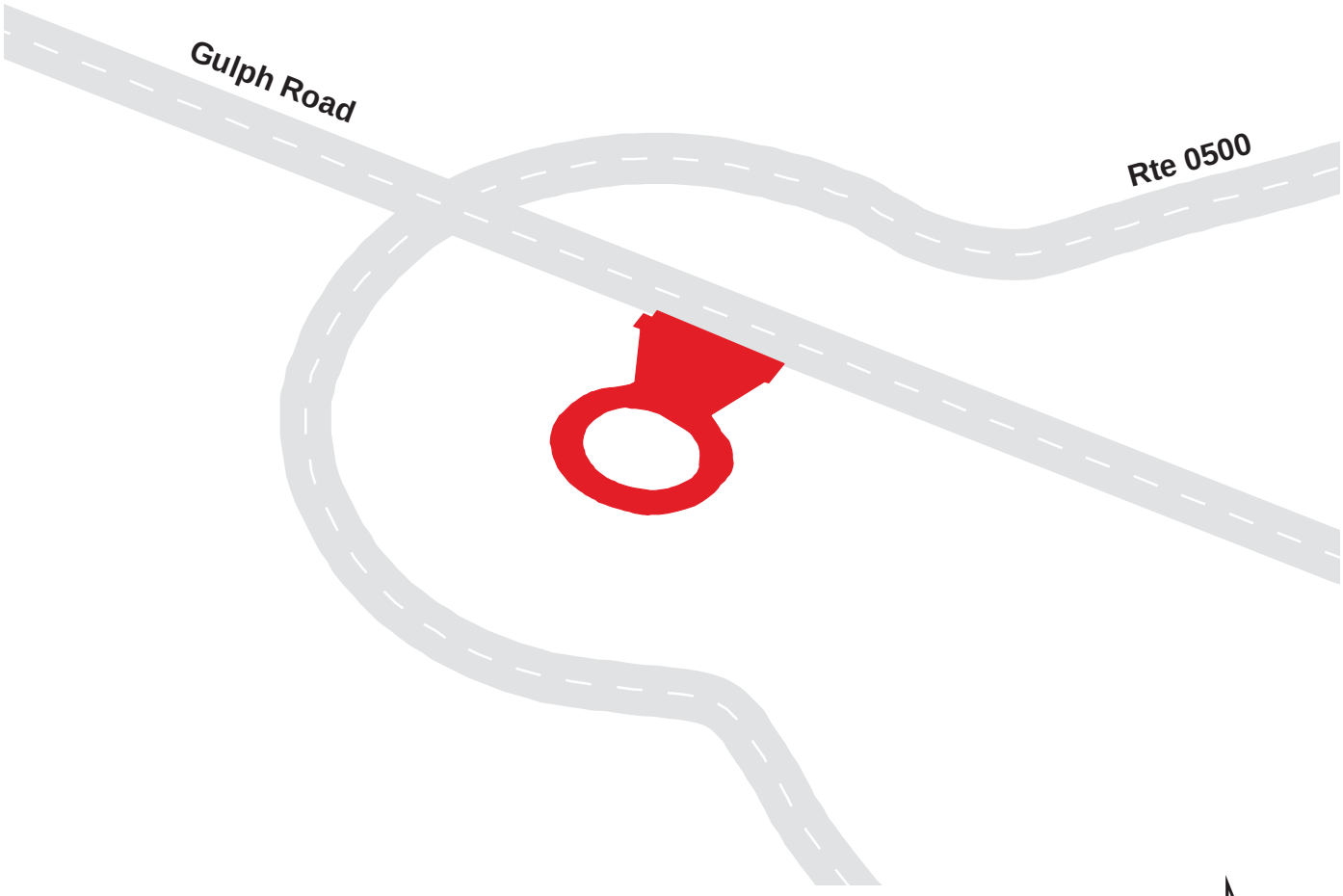
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0906
National Memorial Arch Access Area
FROM GULPH ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	NonPublic	7/1/2002	33030	0.57	OT	GOOD / 90

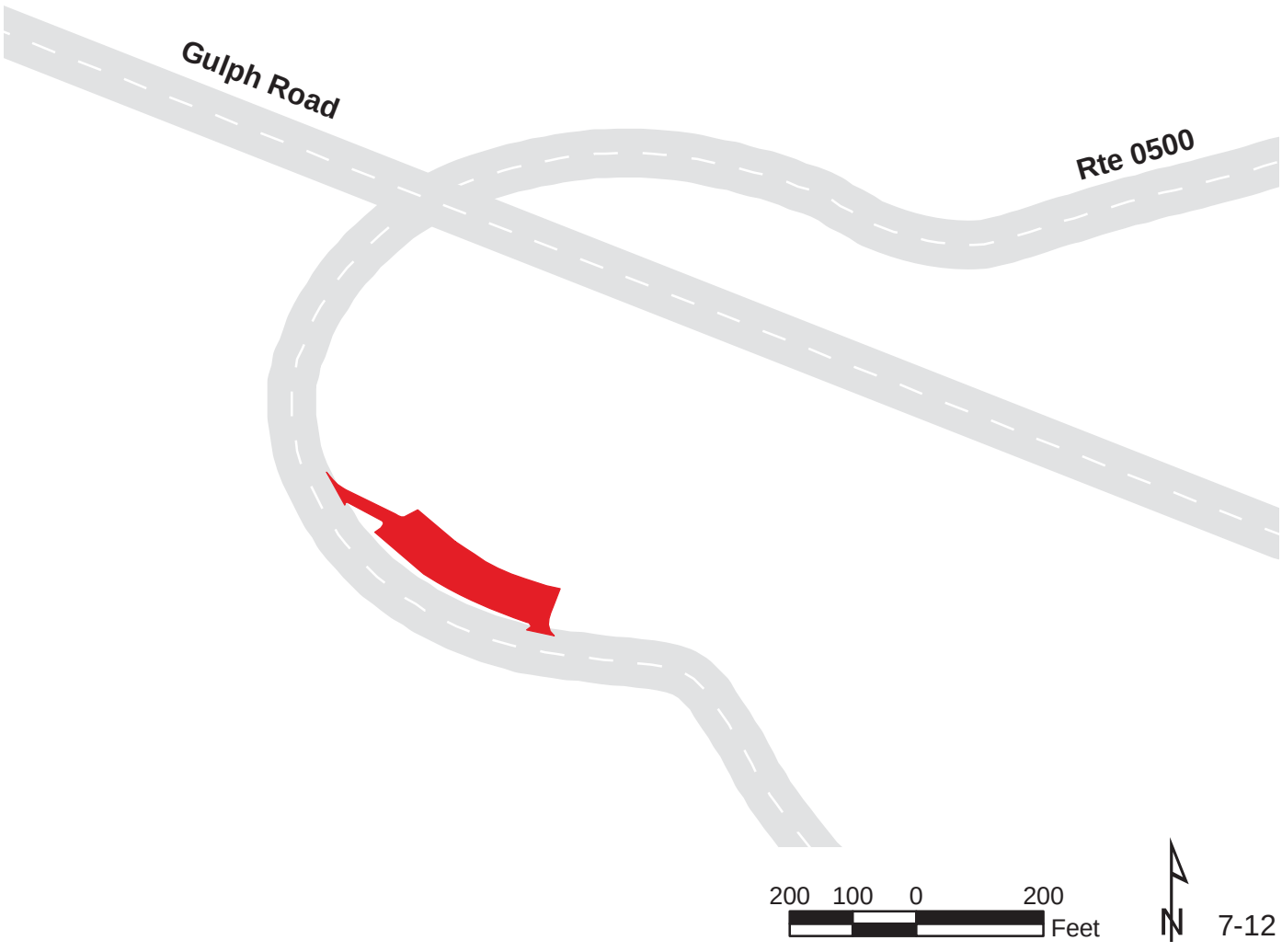
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0907A
National Memorial Arch Parking A
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907A	Public	7/1/2002	16449	0.28	AS	GOOD / 90

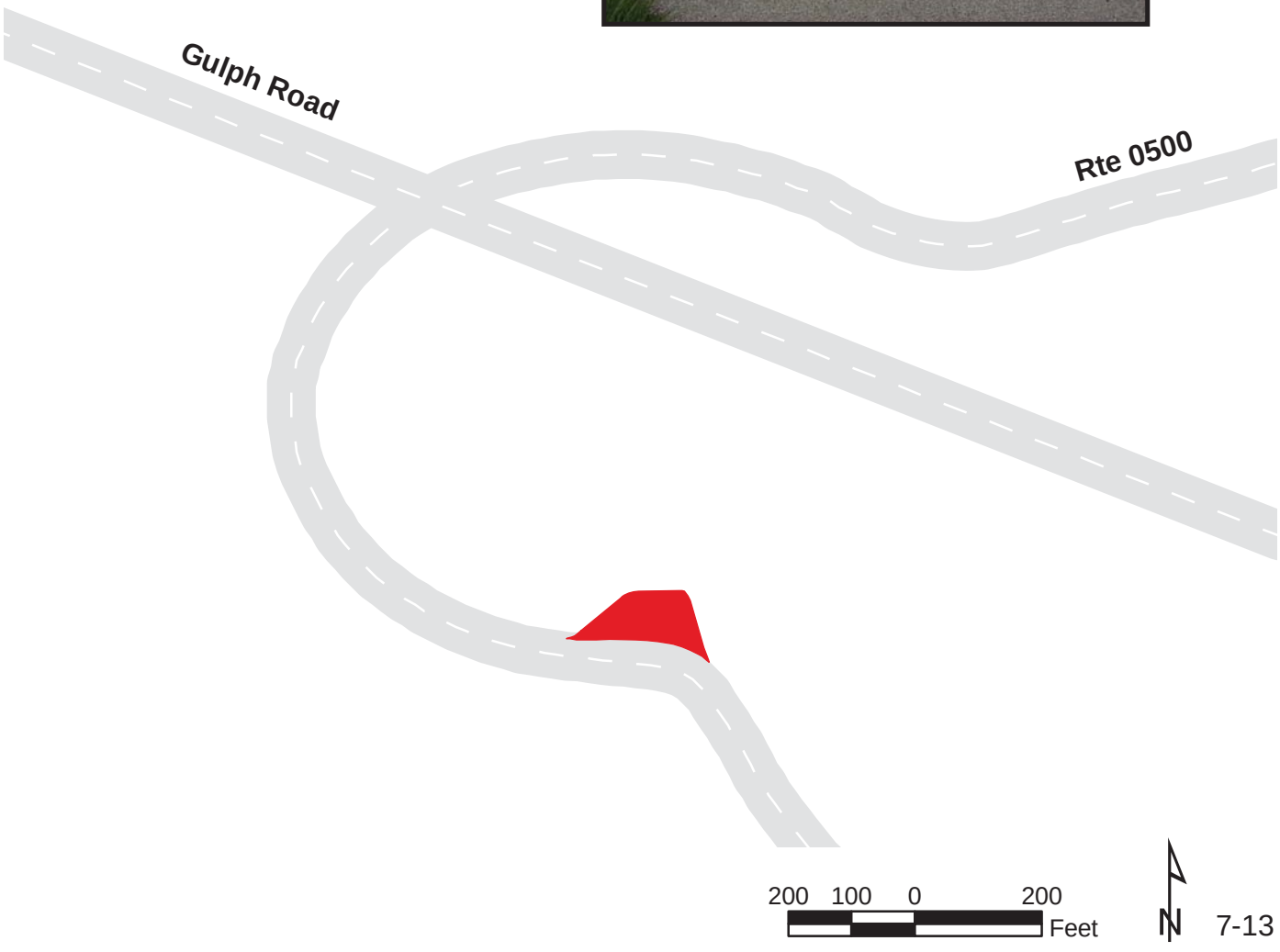
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0907B
National Memorial Arch Parking B
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907B	Public	7/1/2002	9546	0.16	AS	GOOD / 90

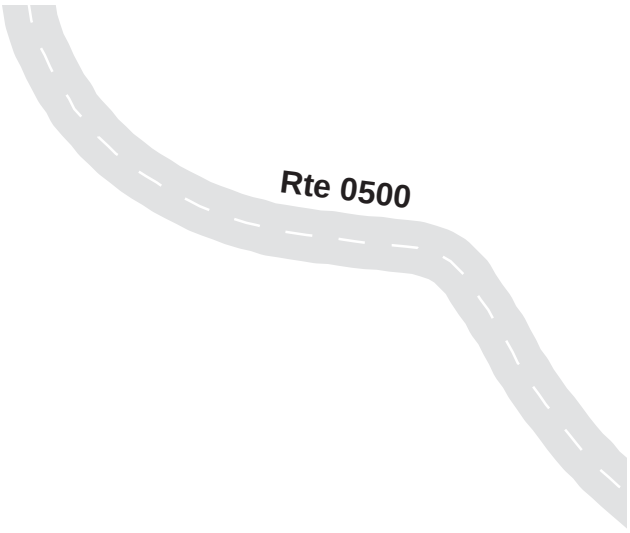
* Lane miles are based on 11' lane widths

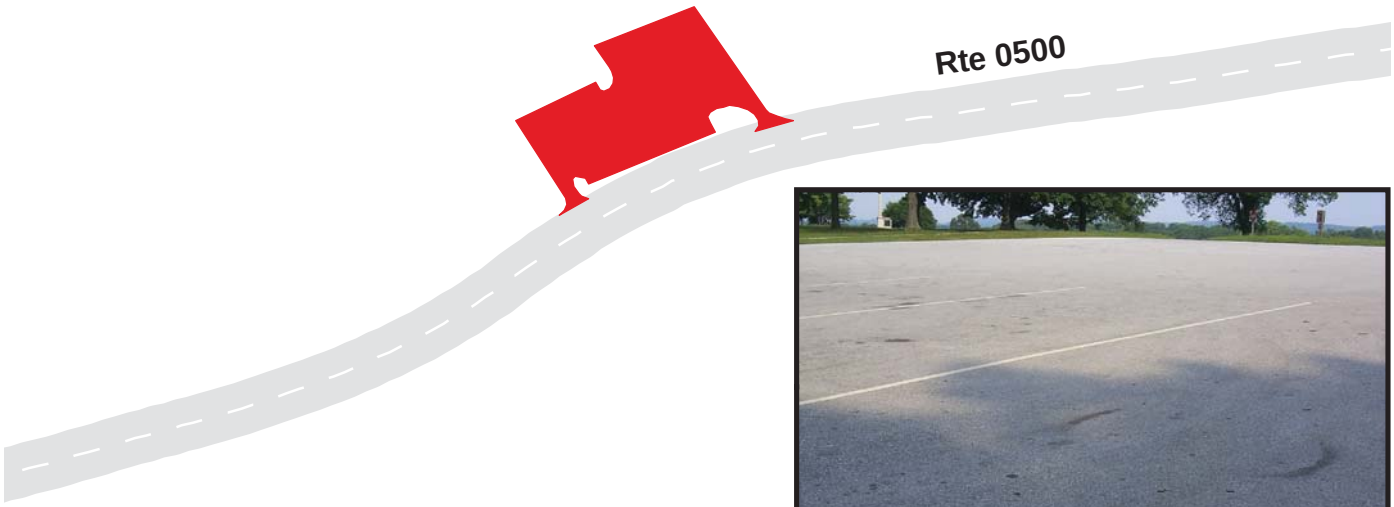


Valley Forge National Historical Park
Route 0908
Wayne's Woods Picnic Area Parking
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	7/1/2002	38752	0.67	AS	GOOD / 90

* Lane miles are based on 11' lane widths

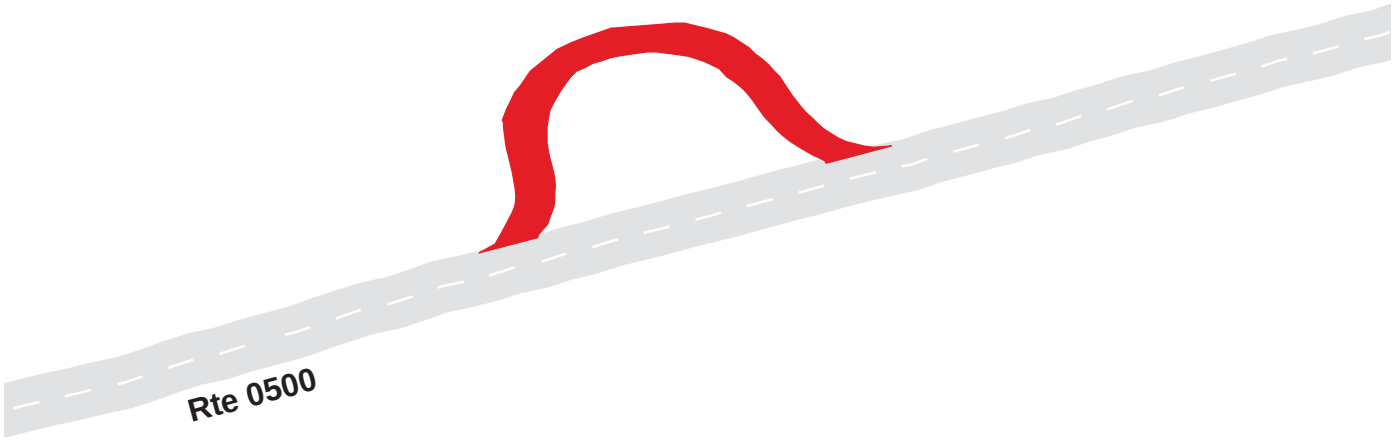




Valley Forge National Historical Park
Route 0909
Wayne's Statue Parking
FROM ROUTE 0500

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	7/1/2002	7021	0.12	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0910
Knox's Quarters Parking
FROM STATE ROUTE 252

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	Public	6/28/2002	50500	0.87	AS	GOOD / 90

* Lane miles are based on 11' lane widths

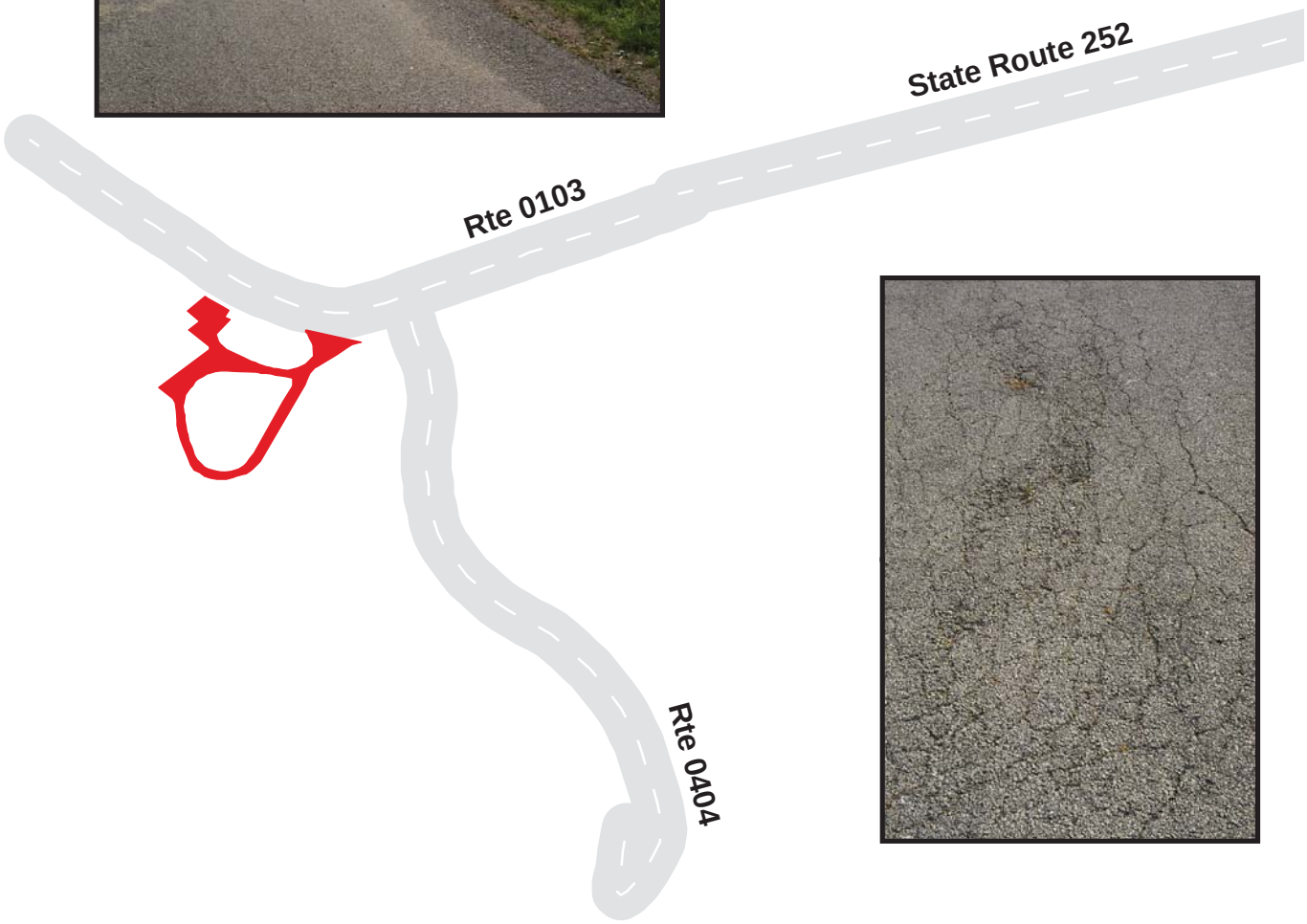
300 150 0 300
Feet

N

Valley Forge National Historical Park
Route 0911
Knox's Quarters Stable Parking
FROM ROUTE 0103

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	NonPublic	7/1/2002	10450	0.18	AS	GOOD / 90

* Lane miles are based on 11' lane widths



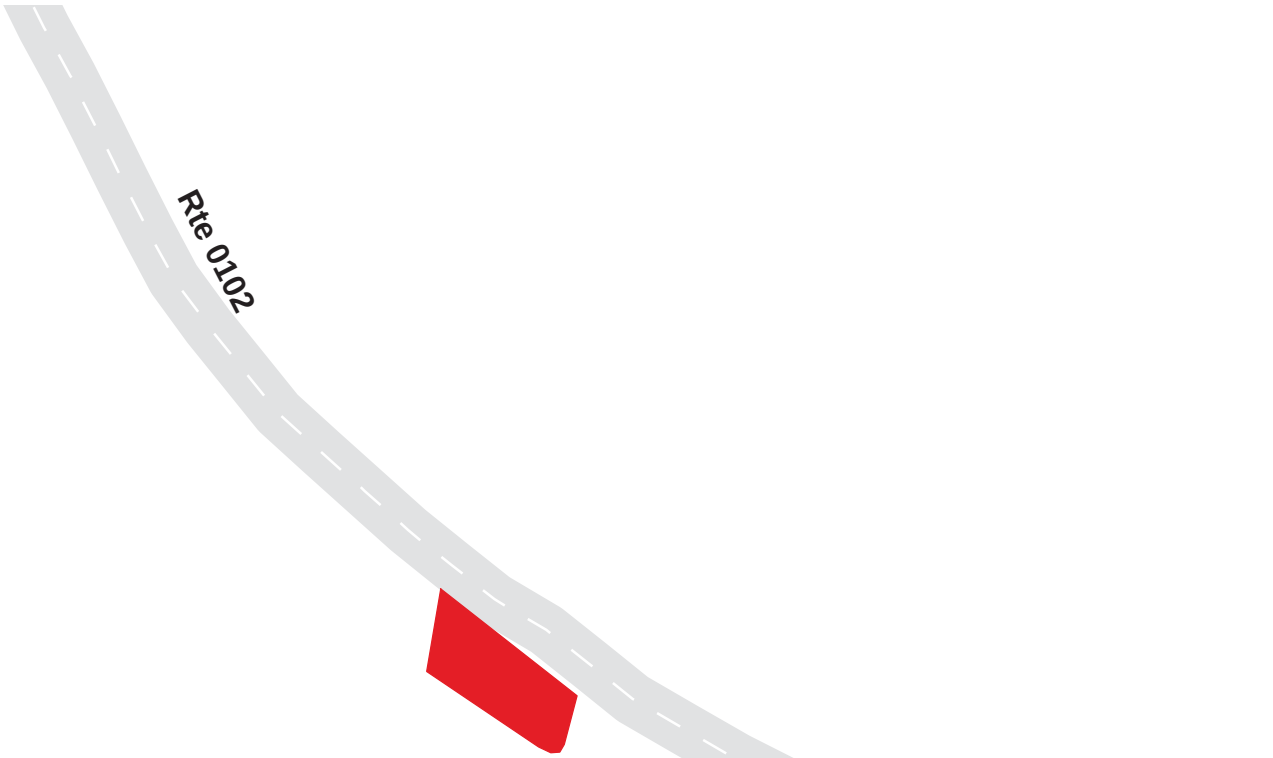
300 150 0 300
Feet

N

Valley Forge National Historical Park
Route 0913
Maxwell's Quarters Parking
FROM ROUTE 0102

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	7/1/2002	907	0.02	AS	FAIR / 73

* Lane miles are based on 11' lane widths



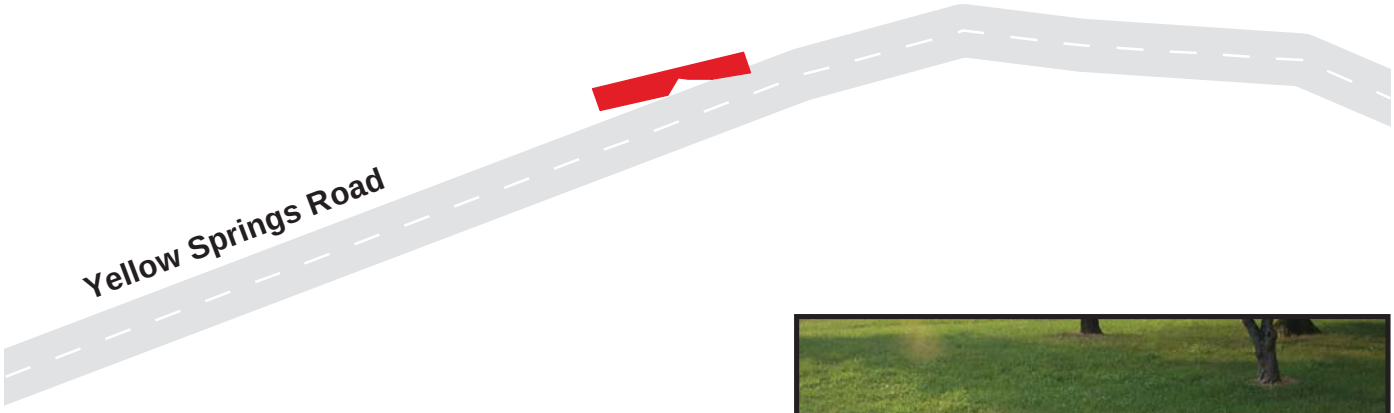
100 50 0 100 Feet

N

Valley Forge National Historical Park
Route 0914
Lord Stirling's Quarters Parking
FROM YELLOW SPRINGS ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	NonPublic	7/1/2002	1921	0.03	AS	POOR / 45

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0916
Whittle House Parking
FROM WILSON ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	NonPublic	7/1/2002	5403	0.09	AS	POOR / 45

* Lane miles are based on 11' lane widths

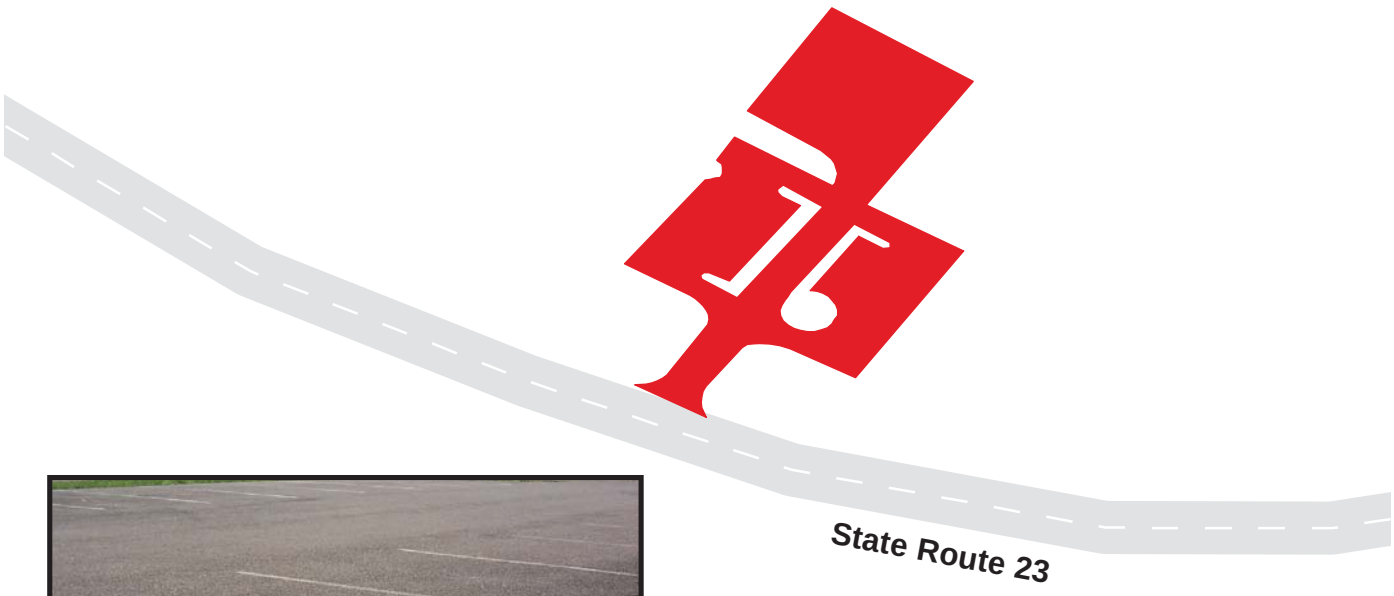
100 50 0 100 Feet

N

Valley Forge National Historical Park
Route 0917
Steuben Memorial Information Center Parking
FROM STATE ROUTE 23

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	Public	6/29/2002	28102	0.48	AS	FAIR / 73

* Lane miles are based on 11' lane widths



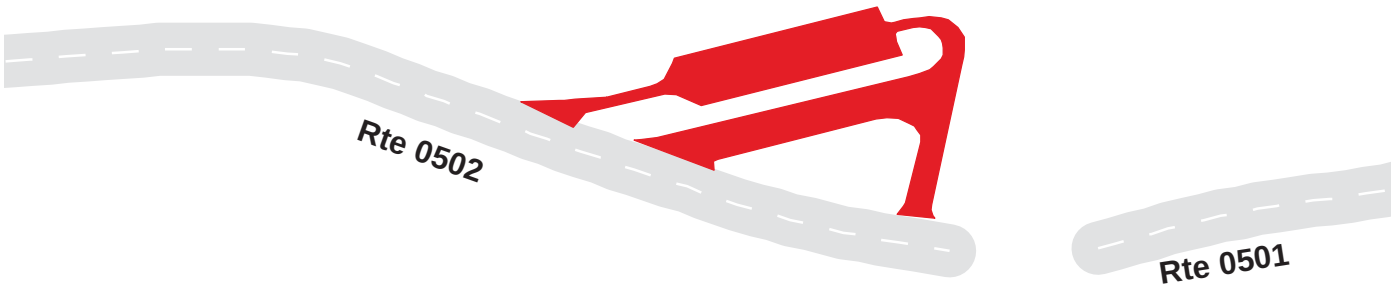
200 100 0 200 Feet

N

Valley Forge National Historical Park
Route 0918A
Washington's Headquarters Upper Parking A
FROM ROUTE 0502

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918A	Public	6/29/2002	21912	0.38	AS	GOOD / 90

* Lane miles are based on 11' lane widths



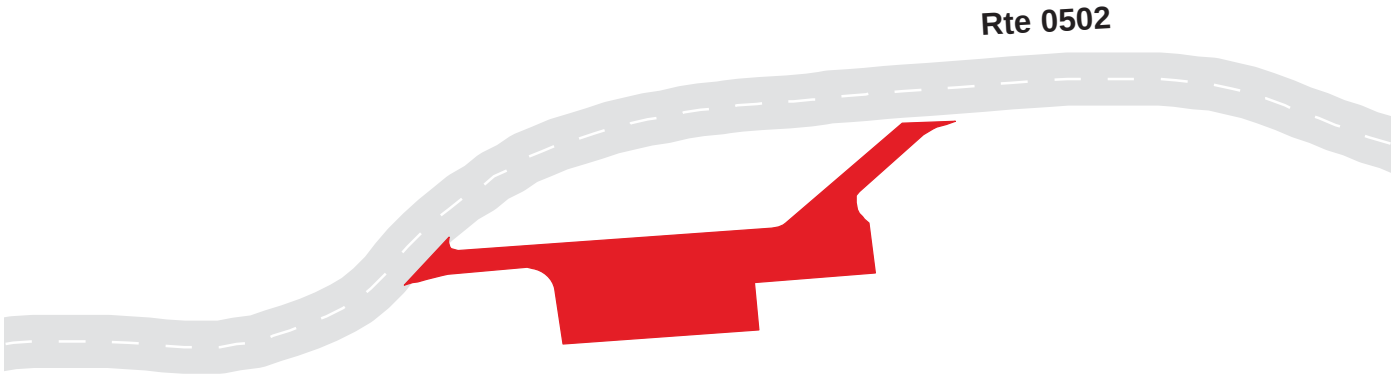
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0918B
Washington's Headquarters Upper Parking B
FROM ROUTE 0502

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918B	Public	6/29/2002	25774	0.44	AS	FAIR / 73

* Lane miles are based on 11' lane widths



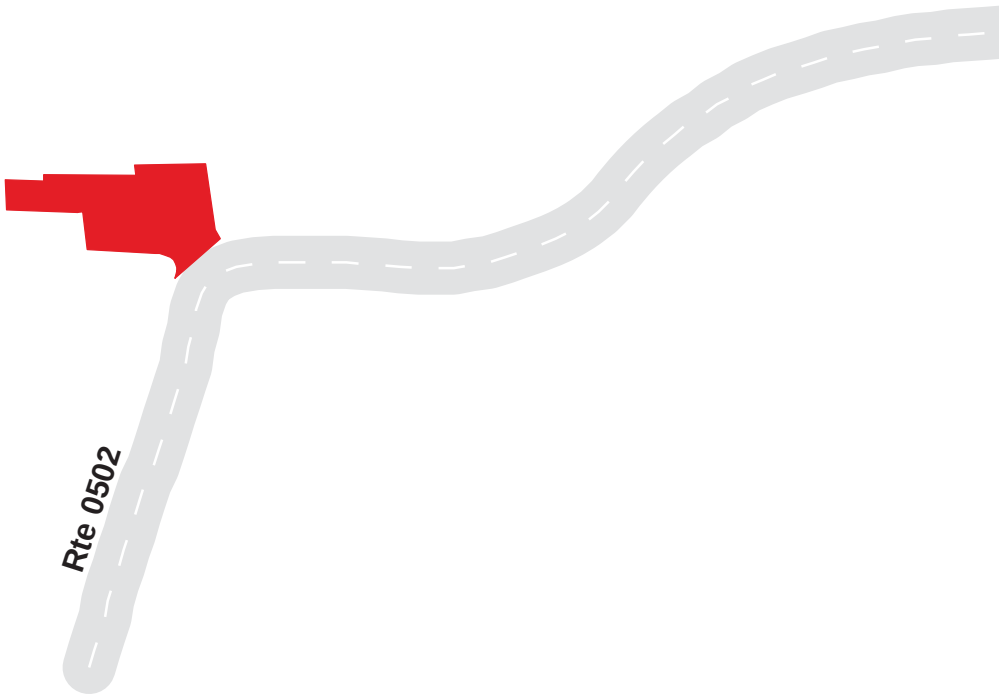
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0919
Valley Forge Train Station Parking
FROM ROUTE 0502

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	6/29/2002	11202	0.19	AS	GOOD / 90

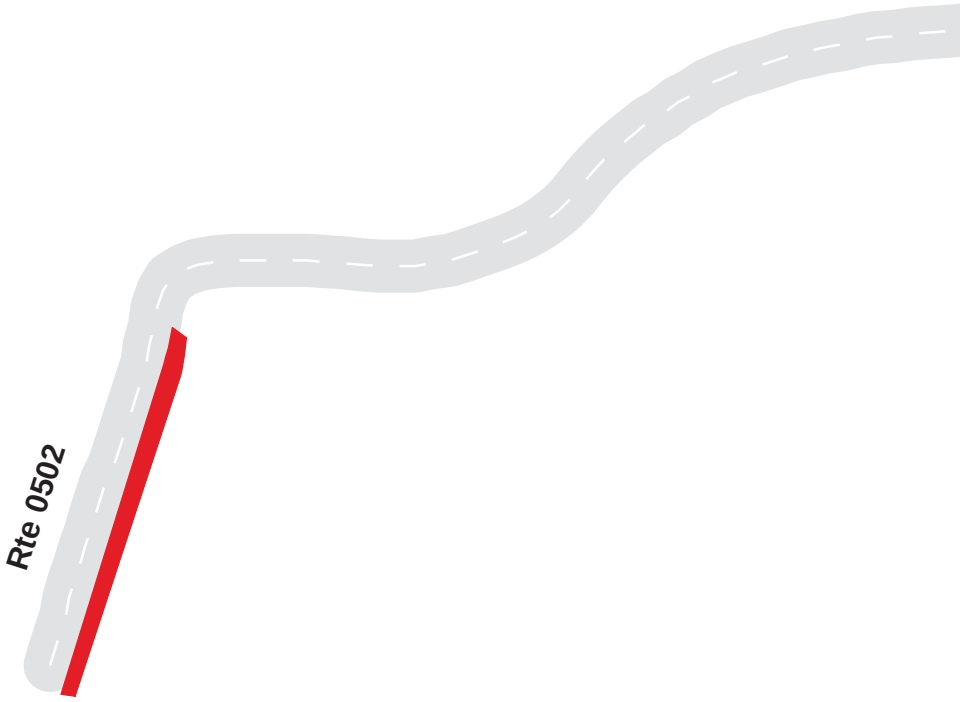
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0920
Washington's Headquarters Bus Parking
FROM ROUTE 0502

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920	Public	6/29/2002	5198	0.09	AS	POOR / 45

* Lane miles are based on 11' lane widths



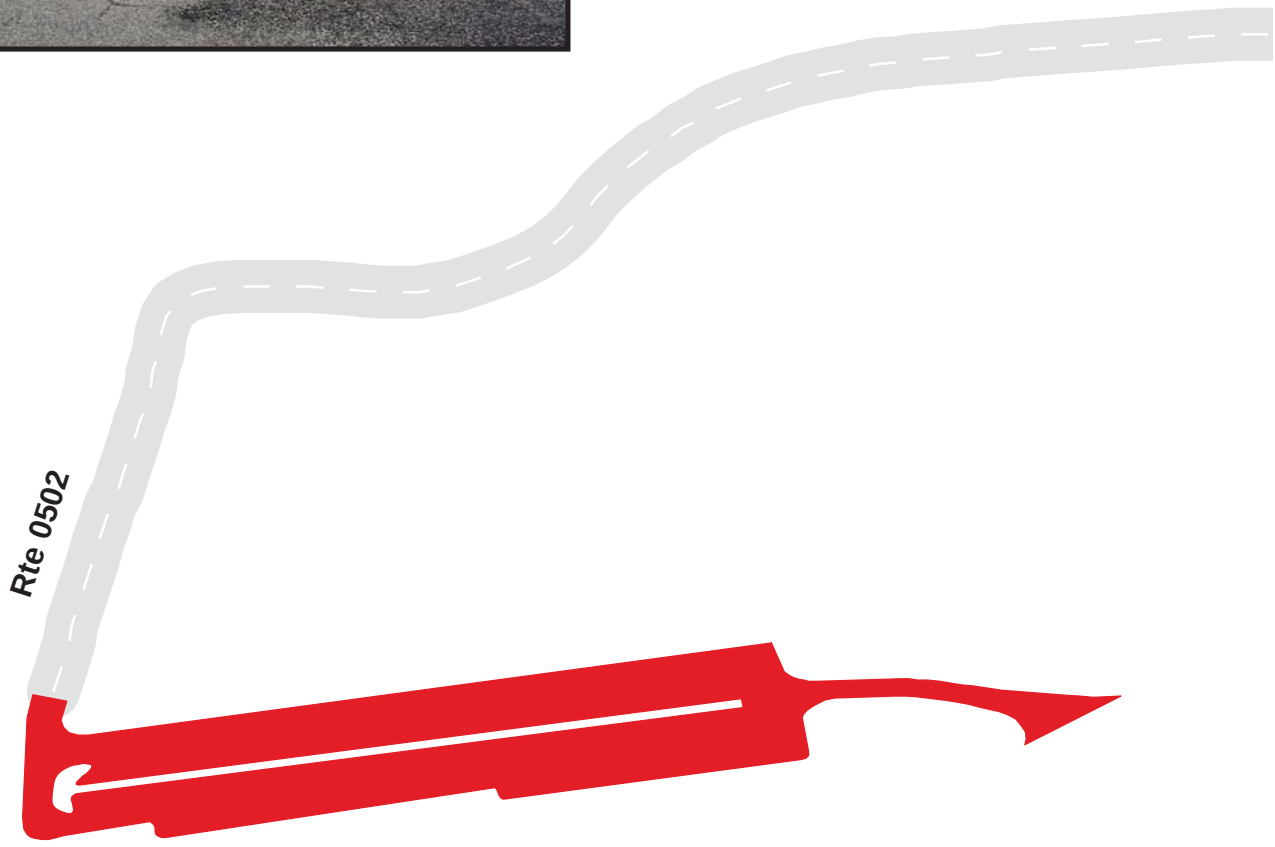
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0921
Washington's Headquarters Parking
FROM ROUTE 0502

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921	Public	6/29/2002	72122	1.24	AS	POOR / 45

* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0924
Redoubt 4 Parking
FROM ROUTE 0213

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0924	Public	6/29/2002	32305	0.56	AS	FAIR / 73

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0925A
Observation Tower Parking A
FROM ROUTE 0104

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925A	Public	6/29/2002	11168	0.19	AS	POOR / 45

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0925B
Observation Tower Parking B
FROM ROUTE 0104

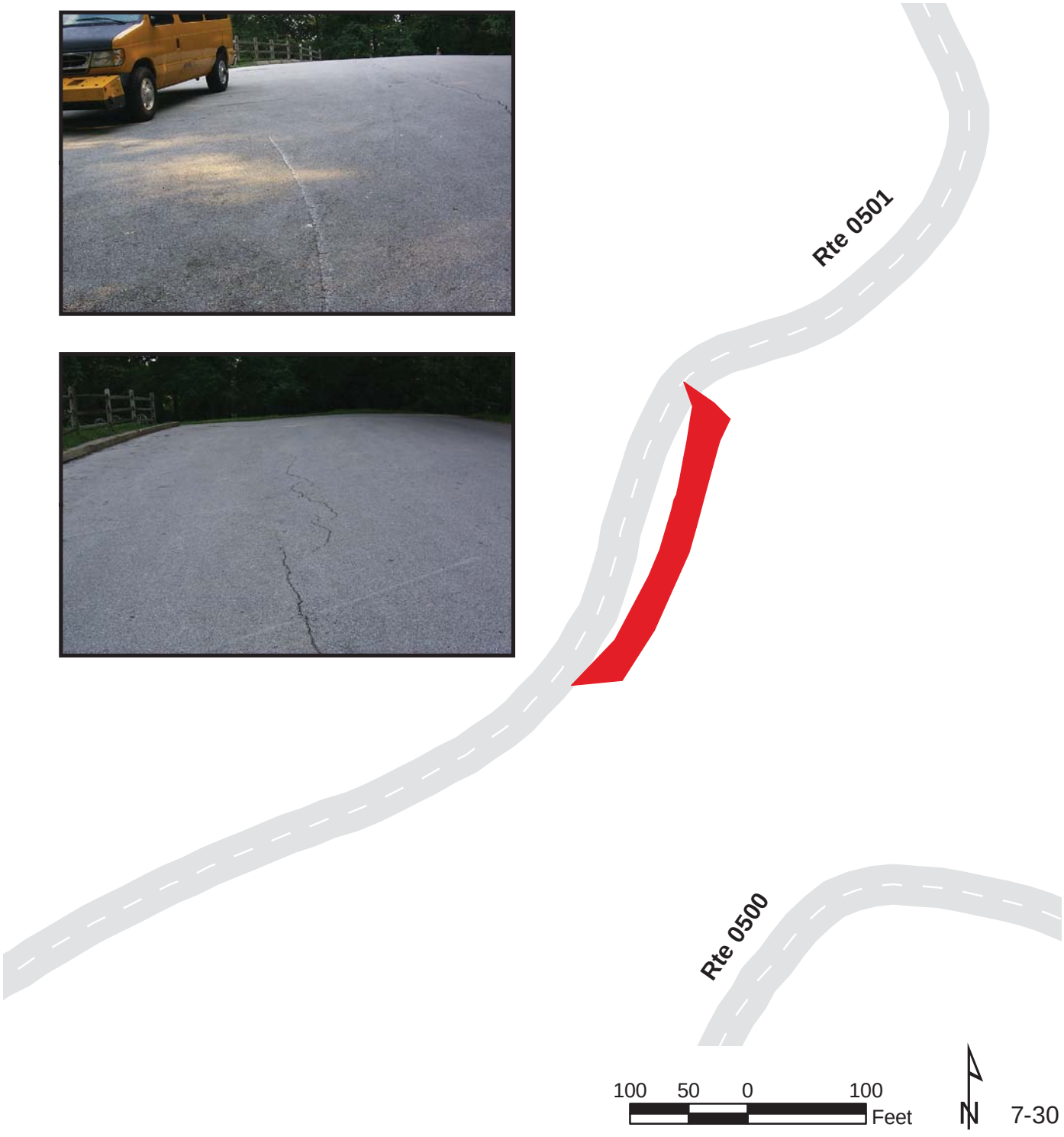
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925B	Public	6/29/2002	11279	0.19	AS	POOR / 45

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0926
Redoubt 3 Parking
FROM ROUTE 0501

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0926	Public	6/29/2002	5155	0.09	AS	FAIR / 73

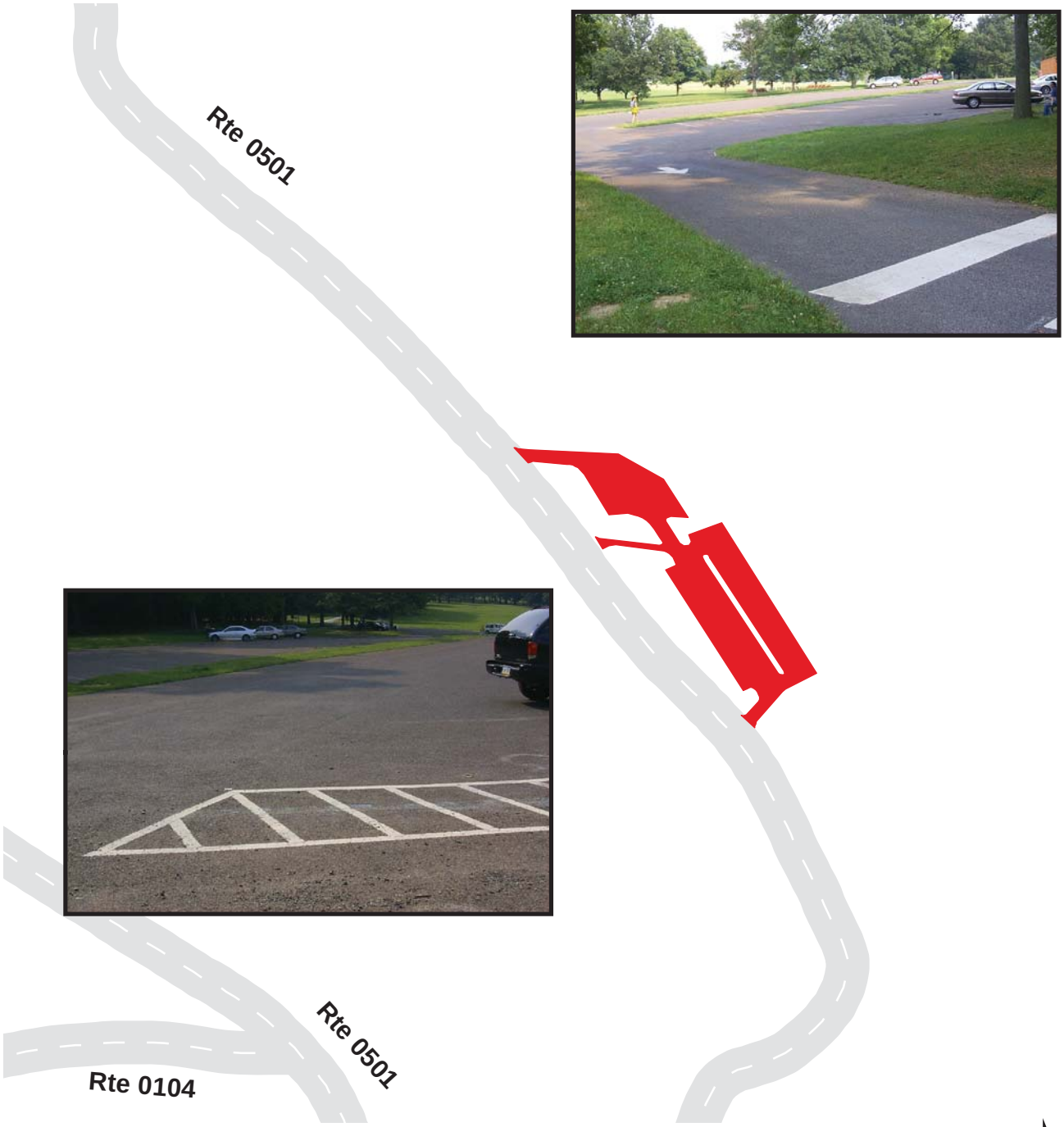
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0927
Artillery Park Parking
FROM ROUTE 0501

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0927	Public	6/29/2002	48010	0.83	AS	GOOD / 90

* Lane miles are based on 11' lane widths



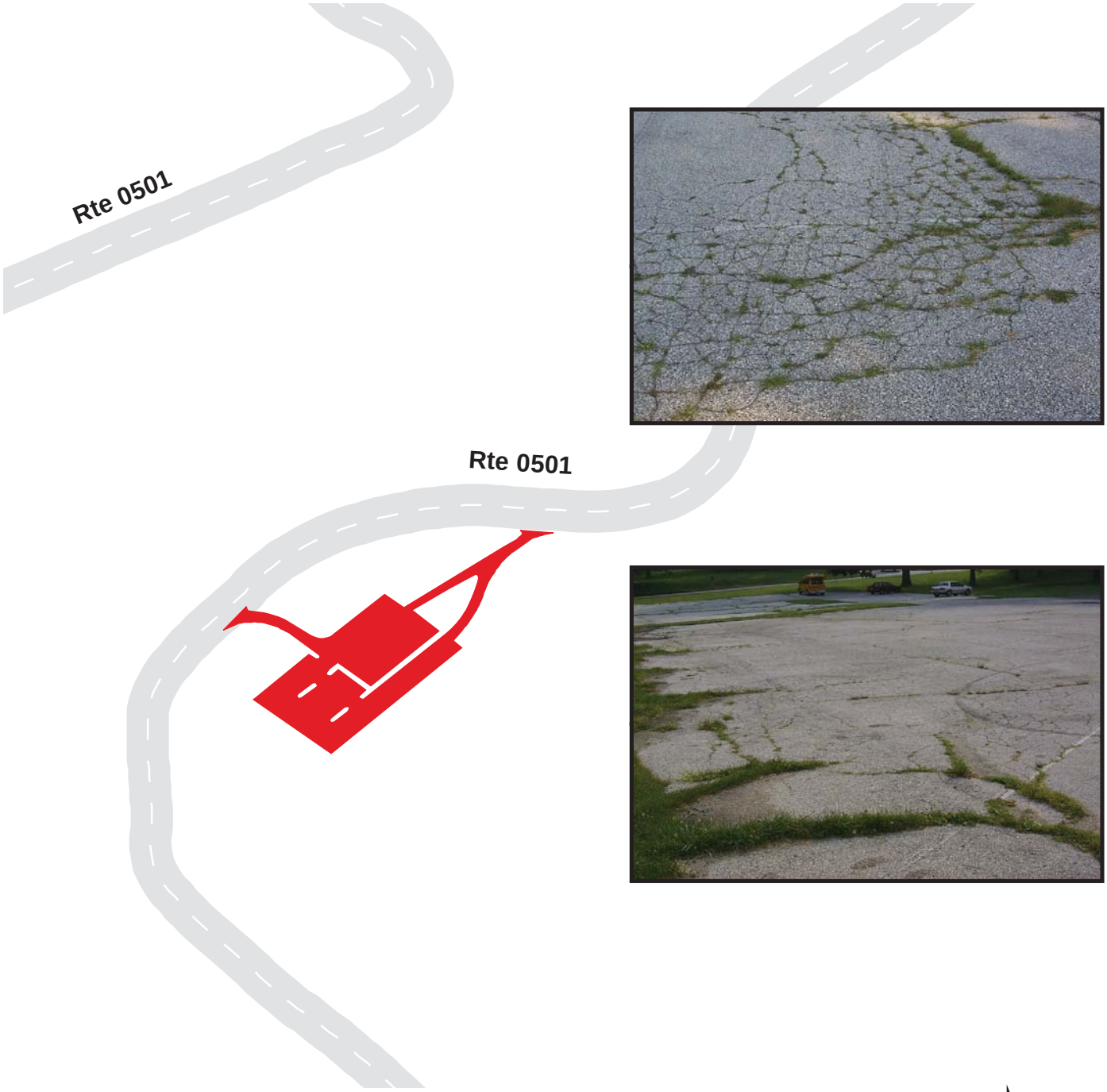
200 100 0 200 Feet

N

Valley Forge National Historical Park
Route 0928
Conway's Brigade Parking
FROM ROUTE 0501

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0928	Public	6/29/2002	46874	0.81	AS	POOR / 45

* Lane miles are based on 11' lane widths



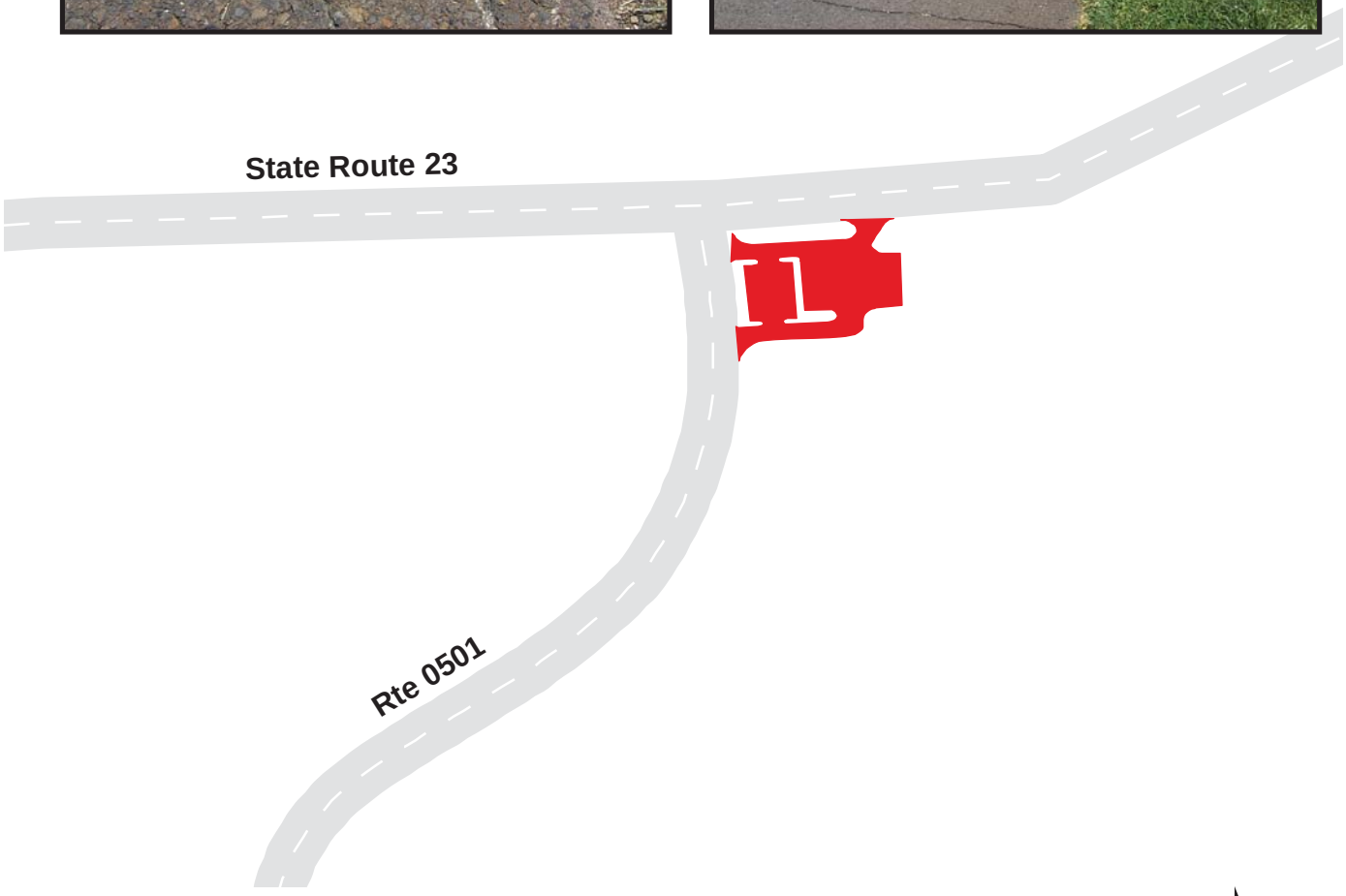
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0929
Varnum's Parking
FROM STATE ROUTE 23

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929	Public	6/29/2002	26011	0.45	AS	FAIR / 73

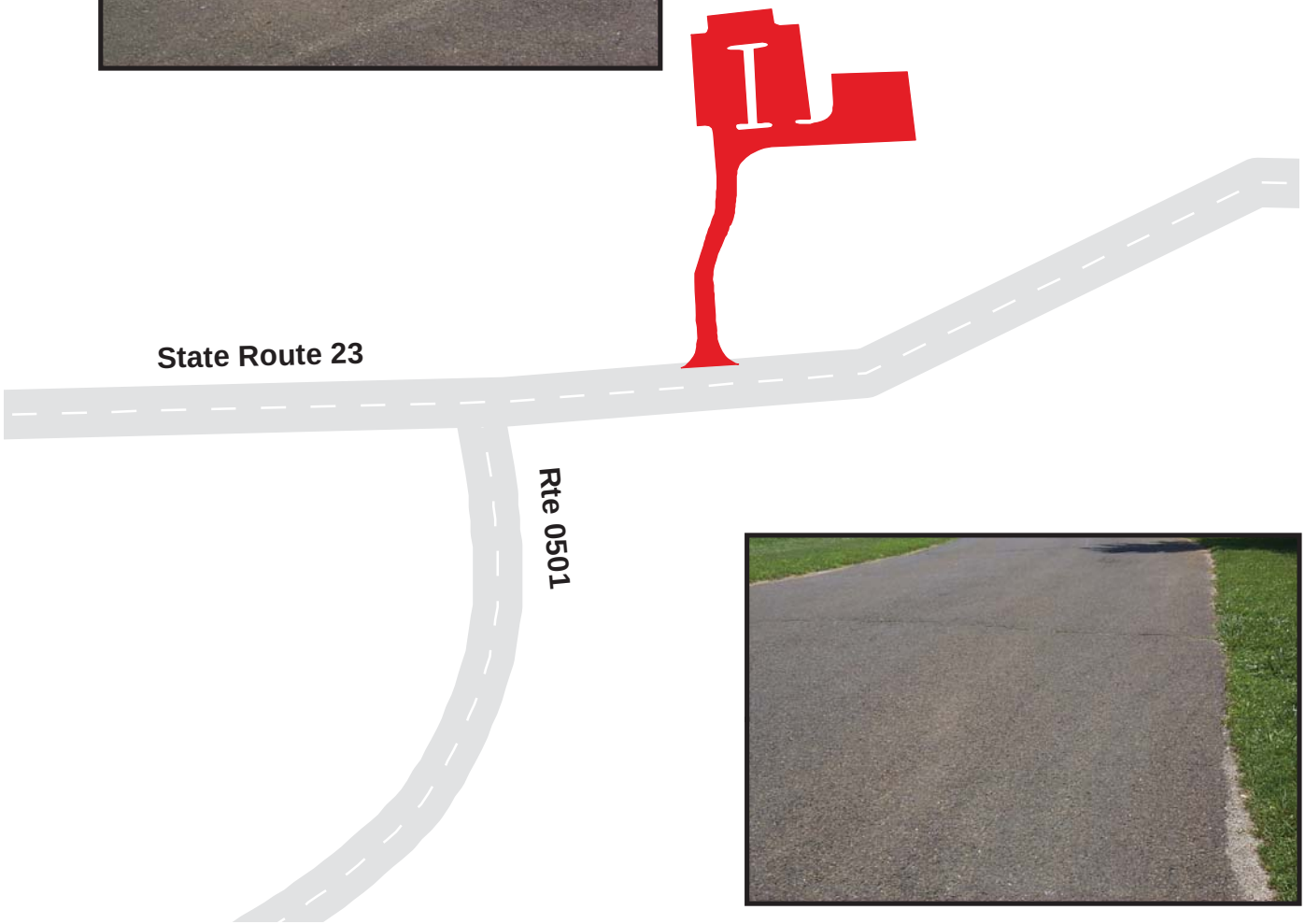
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0930
Varnum's Picnic Area Parking
FROM STATE ROUTE 23

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0930	Public	6/29/2002	37527	0.65	AS	FAIR / 73

* Lane miles are based on 11' lane widths



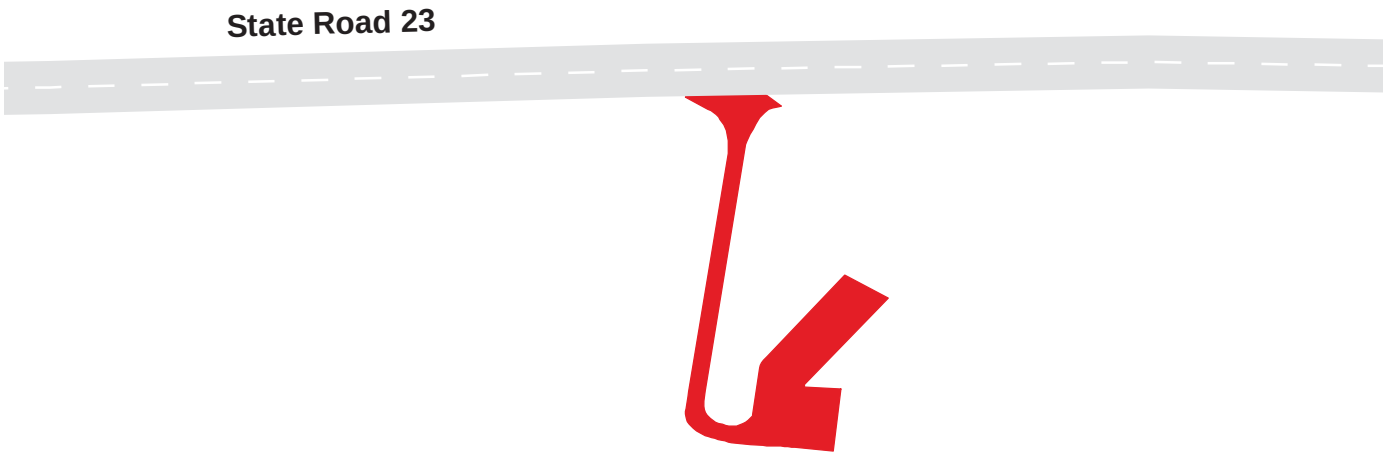
200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0931
Huntington's Quarters Parking
FROM STATE ROUTE 23

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931	Public	6/29/2002	37094	0.64	AS	FAIR / 73

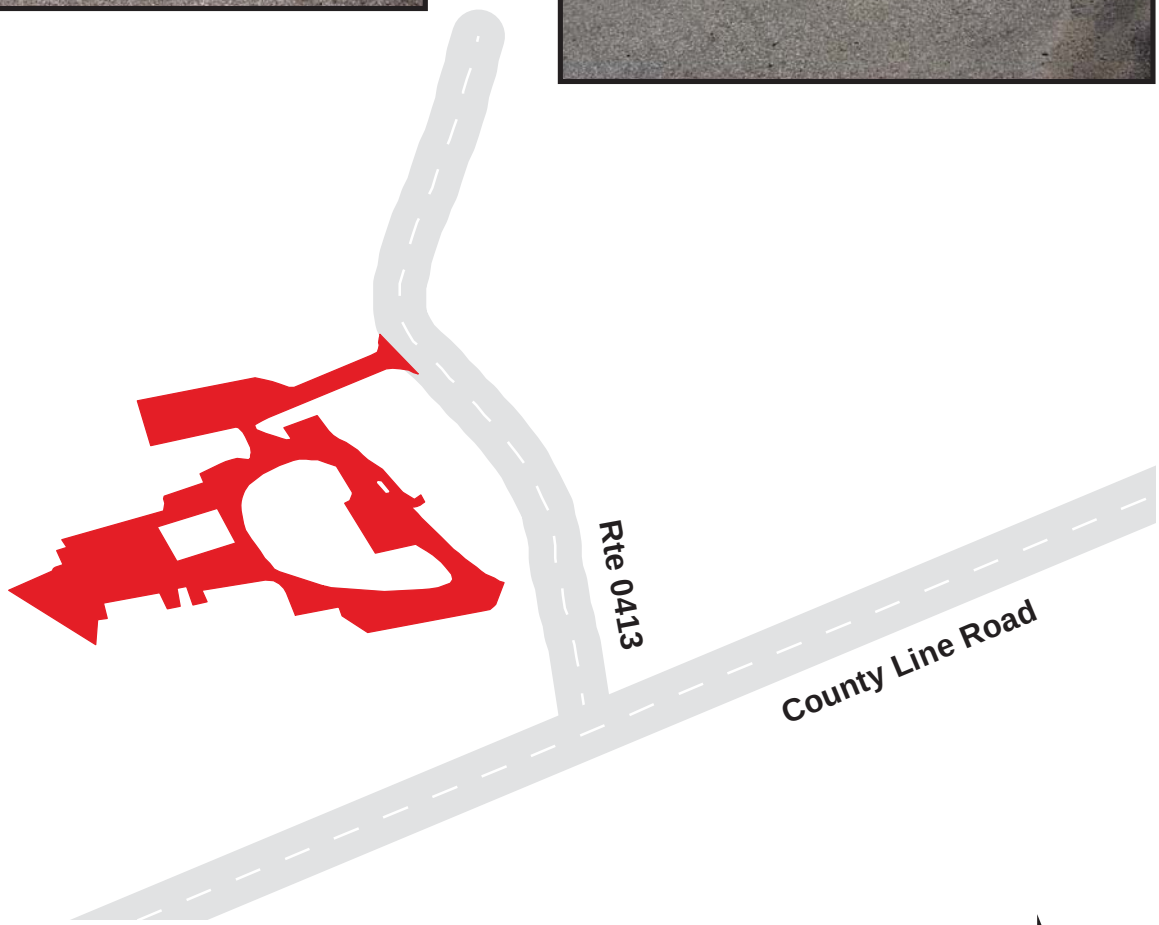
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0932
Maintenance Area
FROM ROUTE 0413

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0932	NonPublic	7/1/2002	71344	1.23	AS	FAIR / 73

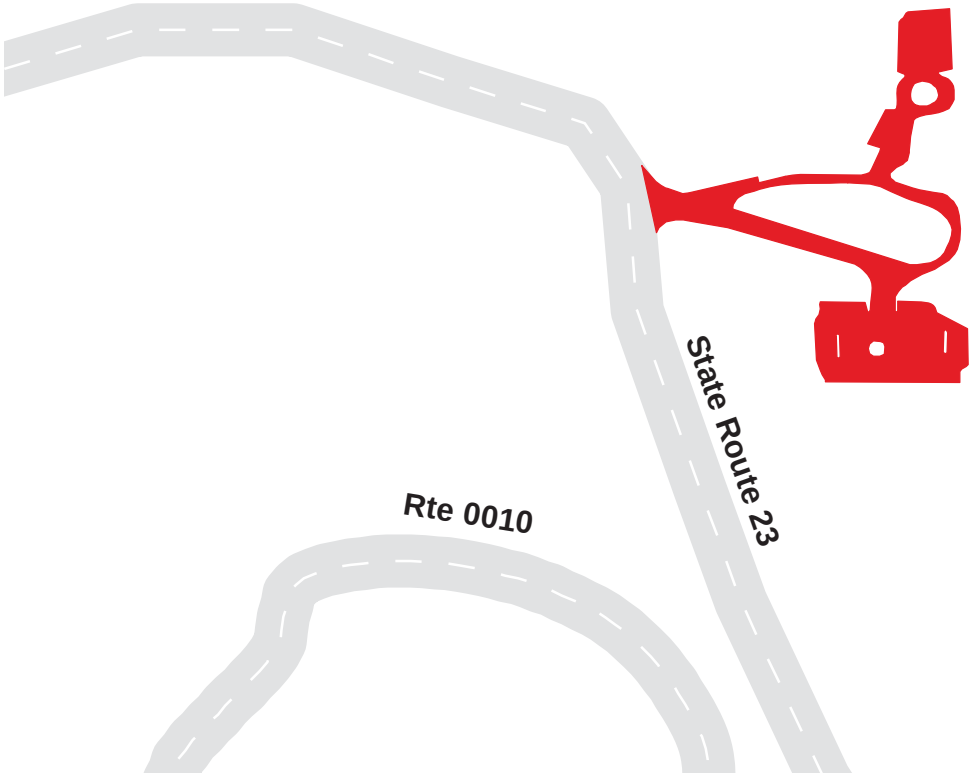
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0933
Kennedy Mansion Parking
FROM STATE ROUTE 23

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0933	Public	7/1/2002	50239	0.86	AS	FAIR / 73

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

N

Valley Forge National Historical Park
Route 0934
Port Kennedy Train Station Parking
FROM OLD TROOPER ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0934	Public	7/1/2002	20500	0.35	AS	FAIR / 73

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0935
Betzwood Picnic Area Boat Ramp Parking
FROM ROUTE 0201

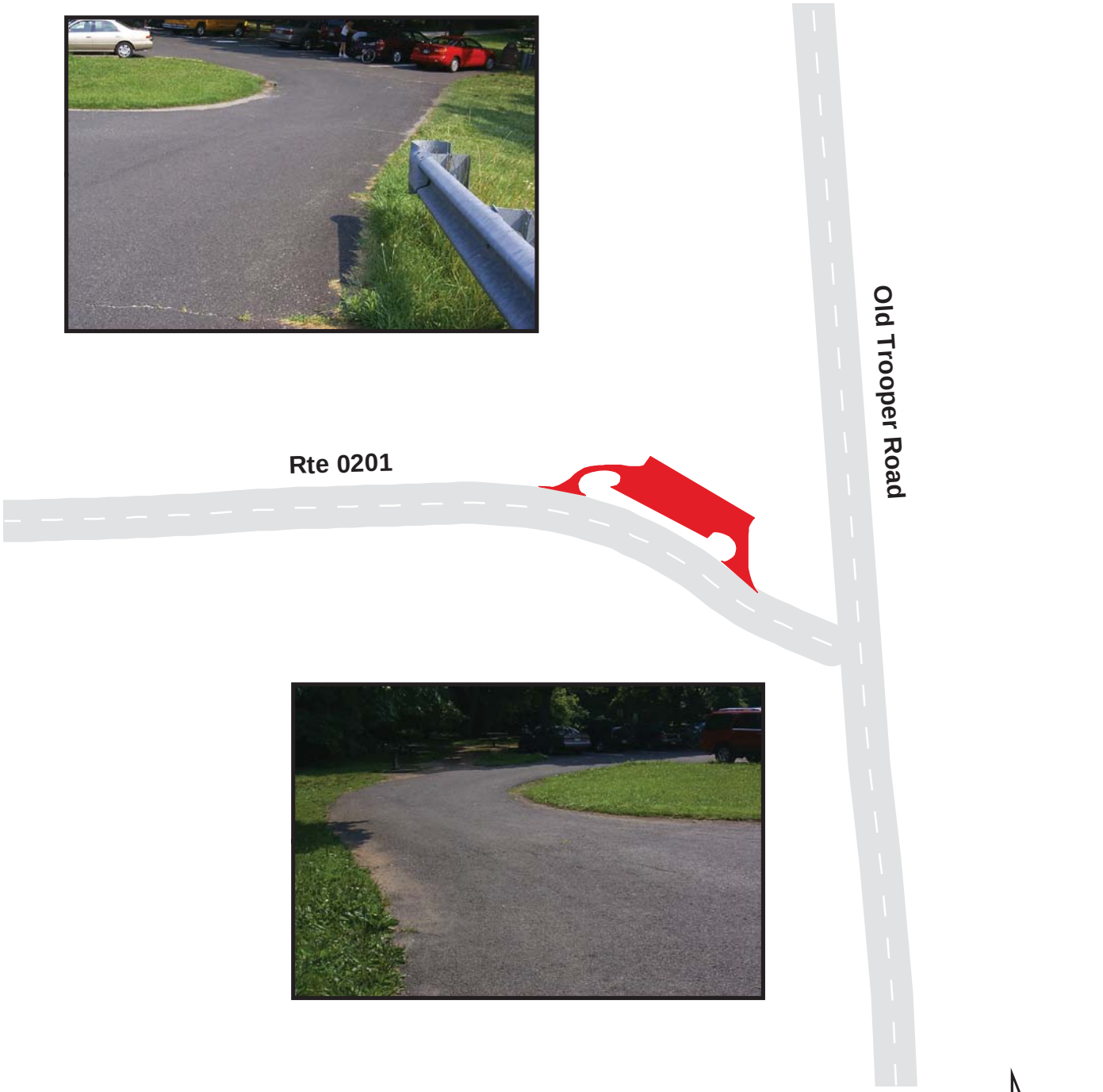
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0935	Public	7/1/2002	14103	0.24	AS	FAIR / 73

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0937
Betzwood Bike Path Parking
FROM ROUTE 0201

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0937	Public	7/1/2002	9102	0.16	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0938A
Betzwood Picnic Area Parking A
FROM ROUTE 0201

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0938A	Public	7/1/2002	3429	0.06	AS	GOOD / 90

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0938B
Betzwood Picnic Area Parking B
FROM ROUTE 0201

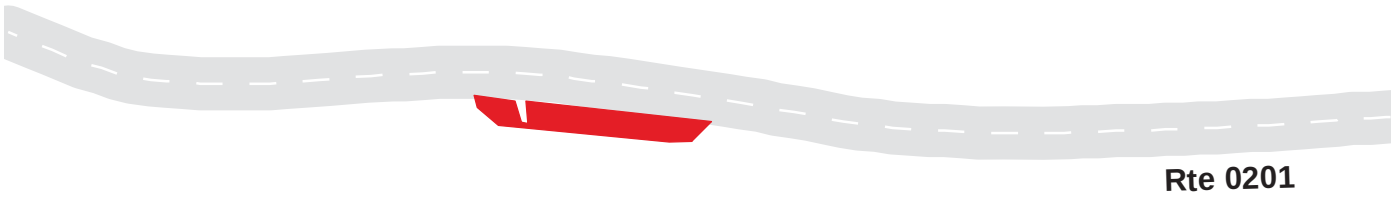
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0938B	Public	7/1/2002	5405	0.09	AS	POOR / 45

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0938C
Betzwood Picnic Area Parking C
FROM ROUTE 0201

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0938C	Public	7/1/2002	4774	0.08	AS	FAIR / 73

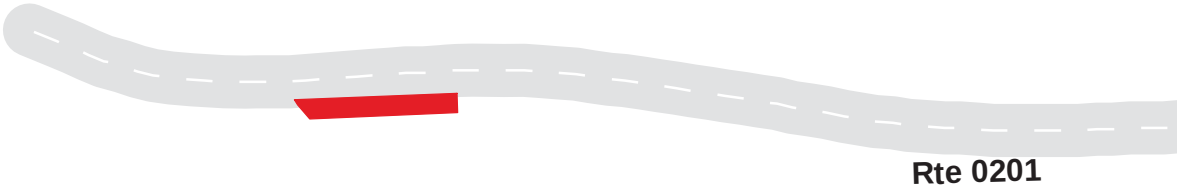
* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0938D
Betzwood Picnic Area Parking D
FROM ROUTE 0201

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0938D	Public	7/1/2002	2691	0.05	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0939
Loughlin House Parking
FROM TROOPER ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0939	NonPublic	7/1/2002	3237	0.06	AS	POOR / 45

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0940
Ranger Station Parking
FROM NORTH GULPH ROAD

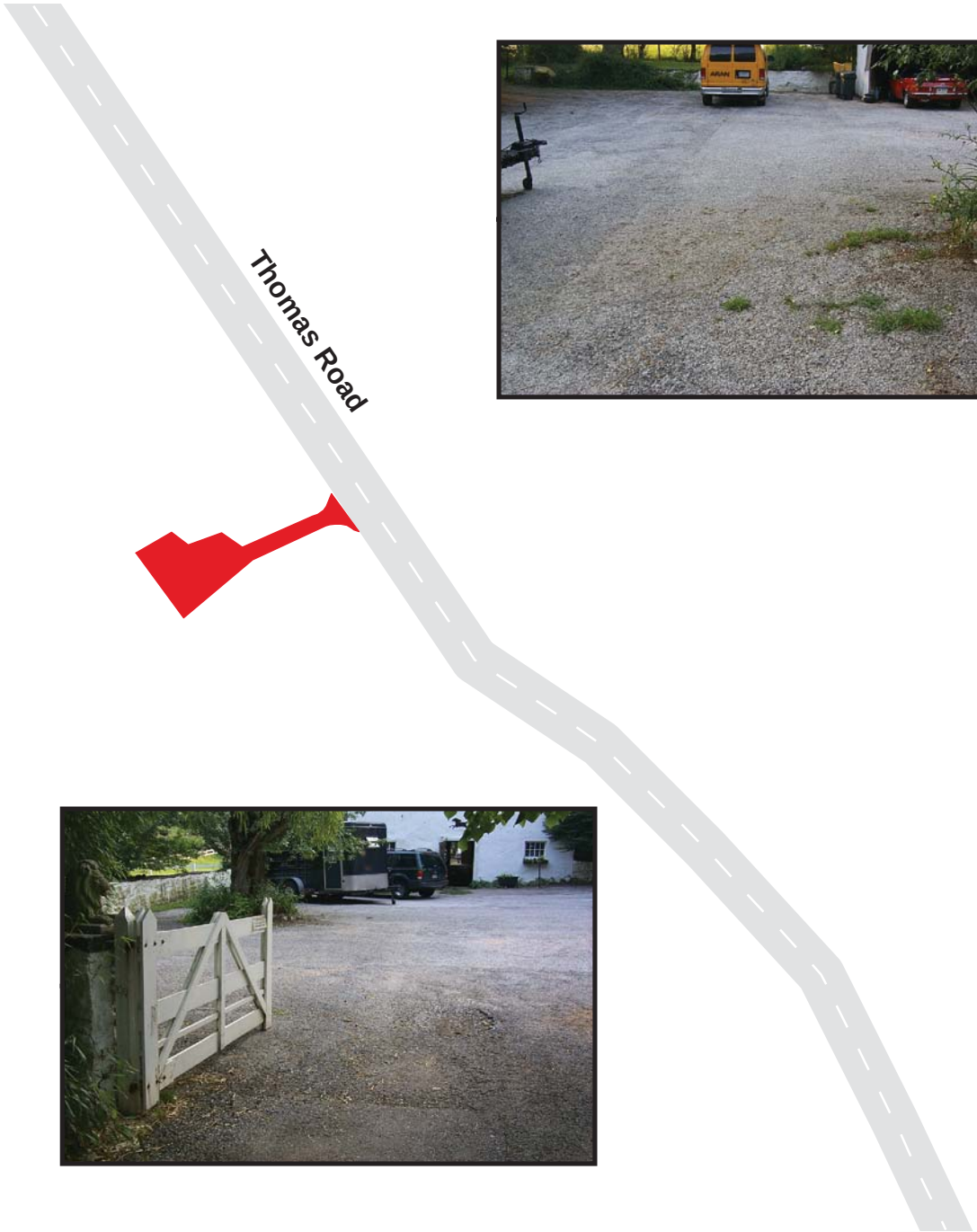
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0940	Public	7/1/2002	15007	0.26	AS	FAIR / 73

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0941
Snyder House Parking
FROM THOMAS ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0941	NonPublic	7/1/2002	6360	0.11	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Valley Forge National Historical Park
Route 0942
Evans House Parking
FROM THOMAS ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0942	NonPublic	7/1/2002	2969	0.05	AS	POOR / 45

* Lane miles are based on 11' lane widths

Valley Forge National Historical Park
Route 0944
Redoubt 4 Overflow Parking
FROM ROUTE 0213

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0944	Public	7/2/2002	2154	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths

VAFO: PARKWIDE MAINTENANCE FEATURES SUMMARY

FEATURE	PARK TOTAL	UNIT
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	46	EACH
CURB	1,595	LINEAR FEET
DROP INLET	6	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	1,827	LINEAR FEET
INTERSECTION	115	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

VAFO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 VISITOR CENTER ACCESS ROAD	ROUTE 0102 MAXWELLS DRIVE	ROUTE 0103 KNOX'S QUARTERS ACCESS ROAD	ROUTE 0104 OBSERVATION TOWER ROAD	ROUTE 0201 BETZWOOD PICNIC AREA ROAD	ROUTE 0205 AMPHITHEATER ACCESS ROAD	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	2	0	0	4	0	EACH
CURB	1,288	0	0	0	0	0	LINEAR FEET
DROP INLET	2	2	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	48	0	137	0	LINEAR FEET
INTERSECTION	11	8	6	9	11	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	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
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

VAFO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0213 REDOUBT 4 ROAD	ROUTE 0404 SUPERINTENDENTS RESIDENCE ACCESS ROAD	ROUTE 0413 QUARRY ROAD	ROUTE 0415 SAMUEL BRITTAIN LANE	ROUTE 0500 OUTER LINE DRIVE	ROUTE 0501 INNER LINE DRIVE	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	2	0	0	18	19	EACH
CURB	0	0	0	0	174	116	LINEAR FEET
DROP INLET	0	0	0	0	1	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	549	787	LINEAR FEET
INTERSECTION	7	3	6	2	22	18	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	0	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

VAFO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0502 RIVER ROAD	UNIT
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	1	EACH
CURB	16	LINEAR FEET
DROP INLET	1	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	306	LINEAR FEET
INTERSECTION	10	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : VISITOR CENTER ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE ROUTE 23
0.004	0.004	INTERSECTION	LEFT	STATE ROUTE 23
0.004	0.004	INTERSECTION	RIGHT	STATE ROUTE 23
0.011	0.030	CURB	LEFT	
0.033	0.033	INTERSECTION	LEFT	
0.146	0.146	DROP INLET	LEFT	
0.147	0.147	INTERSECTION	LEFT	RTE 900
0.228	0.228	INTERSECTION	RIGHT	RTE 901
0.229	0.236	CURB	RIGHT	
0.240	0.240	INTERSECTION	RIGHT	RTE 901
0.242	0.242	INTERSECTION	LEFT	RTE 900
0.245	0.251	CURB	RIGHT	
0.248	0.264	CURB	LEFT	
0.257	0.298	CURB	RIGHT	
0.277	0.300	CURB	LEFT	
0.303	0.303	INTERSECTION	RIGHT	RTE 205
0.308	0.308	INTERSECTION	LEFT	RTE903
0.311	0.397	CURB	RIGHT	
0.317	0.358	CURB	LEFT	
0.326	0.326	DROP INLET	LEFT	
0.398	0.398	INTERSECTION	RIGHT	RTE 500
0.485	0.490	CURB	LEFT	
0.516	0.516	INTERSECTION	RIGHT	STATE ROUTE 23
0.520	0.520			ROUTE ENDS AT STATE ROUTE 23

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102 : MAXWELLS DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT YELLOW SPRINGS ROAD
0.003	0.003	INTERSECTION	RIGHT	YELLOW SPRINGS ROAD
0.003	0.003	INTERSECTION	LEFT	YELLOW SPRINGS ROAD
0.035	0.035	CULVERT	N/A	
0.078	0.078	CULVERT	N/A	
0.107	0.107	DROP INLET	RIGHT	
0.107	0.107	INTERSECTION	RIGHT	RTE 913
0.109	0.109	DROP INLET	LEFT	
0.120	0.120	INTERSECTION	LEFT	SPUR TO 102
0.145	0.145	INTERSECTION	LEFT	SPUR TO 102
0.222	0.222	INTERSECTION	RIGHT	
0.307	0.307	INTERSECTION	LEFT	WILSON ROAD
0.307	0.307	INTERSECTION	RIGHT	WILSON ROAD
0.310	0.310			ROUTE ENDS AT WILSON ROAD

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103 : KNOX'S QUARTERS ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE ROUTE 252
0.001	0.001	INTERSECTION	LEFT	STATE ROUTE 252
0.007	0.007	INTERSECTION	RIGHT	STATE ROUTE 252
0.068	0.068	INTERSECTION	LEFT	RTE 404
0.092	0.092	INTERSECTION	LEFT	RTE 911
0.174	0.183	GUARDRAIL	LEFT	
0.176	0.176	INTERSECTION	LEFT	STATE ROUTE 252
0.176	0.176	INTERSECTION	RIGHT	STATE ROUTE 252
0.180	0.180			ROUTE ENDS AT STATE ROUTE 252

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0104 : OBSERVATION TOWER ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 501
0.005	0.005	INTERSECTION	LEFT	ROUTE 501
0.007	0.007	INTERSECTION	RIGHT	ROUTE 501
0.143	0.143	INTERSECTION	LEFT	RTE 104
0.184	0.184	INTERSECTION	RIGHT	RTE 925A
0.197	0.197	INTERSECTION	RIGHT	RTE 925A
0.212	0.212	INTERSECTION	RIGHT	RTE 925B
0.224	0.224	INTERSECTION	RIGHT	RTE 925B
0.249	0.249	INTERSECTION	LEFT	
0.250	0.250			ROUTE ENDS AT END OF LOOP
0.250	0.250	INTERSECTION	RIGHT	

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201 : BETZWOOD PICNIC AREA ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT TROOPER ROAD
0.001	0.027	GUARDRAIL	RIGHT	
0.005	0.005	INTERSECTION	LEFT	TROOPER ROAD
0.007	0.007	INTERSECTION	RIGHT	TROOPER ROAD
0.011	0.011	INTERSECTION	LEFT	RTE 935
0.028	0.028	INTERSECTION	RIGHT	RTE 937
0.035	0.035	CULVERT	N/A	
0.071	0.071	INTERSECTION	RIGHT	RTE 937
0.081	0.081	CULVERT	N/A	
0.134	0.134	INTERSECTION	LEFT	RTE 938A
0.168	0.168	CULVERT	N/A	
0.204	0.204	INTERSECTION	LEFT	RTE 938B
0.213	0.213	INTERSECTION	RIGHT	UNPAVED NPS ROUTE
0.222	0.222	CULVERT	N/A	
0.254	0.254	INTERSECTION	LEFT	RTE 938C
0.282	0.282	INTERSECTION	LEFT	RTE 938D
0.333	0.333	INTERSECTION	LEFT	RTE 201
0.350	0.350			ROUTE ENDS AT END

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0205 : AMPHITHEATER ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 010
0.005	0.005	INTERSECTION	LEFT	ROUTE 010
0.005	0.005	INTERSECTION	RIGHT	ROUTE 010
0.170	0.170			ROUTE ENDS AT DANGER ASBESTOS GATE

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0213 : REDOUBT 4 ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE ROUTE 23
0.007	0.007	INTERSECTION	RIGHT	STATE ROUTE 23
0.012	0.012	INTERSECTION	LEFT	STATE ROUTE 23
0.065	0.065	INTERSECTION	LEFT	RTE 944
0.079	0.079	INTERSECTION	LEFT	RTE 924
0.095	0.095	INTERSECTION	LEFT	RTE 924
0.134	0.134	INTERSECTION	LEFT	ROUTE 501
0.134	0.134	INTERSECTION	RIGHT	ROUTE 501
0.140	0.140			ROUTE ENDS AT ROUTE 501

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0404 : SUPERINTENDENTS RESIDENCE ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 103
0.007	0.007	INTERSECTION	RIGHT	ROUTE 103
0.023	0.023	CULVERT	N/A	
0.101	0.101	CULVERT	N/A	
0.161	0.161	INTERSECTION	RIGHT	RTE 404
0.207	0.207	INTERSECTION	RIGHT	
0.220	0.220			ROUTE ENDS AT END OF LOOP

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0413 : QUARRY ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT COUNTY LINE ROAD
0.006	0.006	INTERSECTION	RIGHT	COUNTY LINE ROAD
0.008	0.008	INTERSECTION	LEFT	COUNTY LINE ROAD
0.037	0.037	INTERSECTION	LEFT	RTE 932
0.106	0.106	INTERSECTION	LEFT	RTE 932
0.143	0.143	INTERSECTION	LEFT	UNPAVED NPS ROUTE
0.159	0.159	INTERSECTION	RIGHT	UNPAVED NPS ROUTE
0.220	0.220			ROUTE ENDS AT END OF PAVEMENT

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0415 : SAMUEL BRITTAIN LANE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ORCHARD LANE
0.004	0.004	INTERSECTION	LEFT	ORCHARD LANE
0.007	0.007	INTERSECTION	RIGHT	ORCHARD LANE
0.090	0.090			ROUTE ENDS AT END OF PAVEMENT

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500 : OUTER LINE DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 010
0.001	0.019	CURB	RIGHT	
0.007	0.007	INTERSECTION	LEFT	ROUTE 010
0.008	0.008	INTERSECTION	RIGHT	ROUTE 010
0.200	0.200	CULVERT	N/A	
0.209	0.209	INTERSECTION	LEFT	RTE 904
0.256	0.256	INTERSECTION	LEFT	RTE 904
0.282	0.282	INTERSECTION	LEFT	RTE 904
0.354	0.369	CURB	RIGHT	
0.367	0.367	CULVERT	N/A	
0.379	0.379	INTERSECTION	RIGHT	RTE 905A
0.489	0.489	INTERSECTION	RIGHT	RTE 905B
0.590	0.590	CULVERT	N/A	
0.594	0.594	INTERSECTION	RIGHT	RTE 905C
0.679	0.679	INTERSECTION	RIGHT	RTE 905D
0.771	0.771	CULVERT	N/A	
0.771	0.771	INTERSECTION	RIGHT	RTE 905E
0.889	0.889	INTERSECTION	RIGHT	RTE 905F
1.014	1.014	CULVERT	N/A	
1.134	1.134	INTERSECTION	LEFT	GULPH ROAD
1.135	1.135	INTERSECTION	RIGHT	GULPH ROAD
1.229	1.229	INTERSECTION	LEFT	ROUTE 907A
1.297	1.297	INTERSECTION	LEFT	RTE 907A
1.311	1.311	CULVERT	N/A	
1.327	1.327	INTERSECTION	LEFT	RTE 907B
1.376	1.376	CULVERT	N/A	
1.386	1.386	CULVERT	N/A	

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500 : OUTER LINE DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.507	1.507	CULVERT	N/A	
1.648	1.648	CULVERT	N/A	
1.677	1.677	INTERSECTION	RIGHT	RTE 908
1.725	1.725	INTERSECTION	RIGHT	RTE 908
1.782	1.782	CULVERT	N/A	
1.876	1.876	CULVERT	N/A	
1.929	1.929	INTERSECTION	RIGHT	RTE 909
1.939	1.939	DROP INLET	RIGHT	
1.965	1.965	INTERSECTION	RIGHT	RTE 909
2.034	2.101	GUARDRAIL	LEFT	
2.085	2.085	CULVERT	N/A	
2.191	2.191	CULVERT	N/A	
2.338	2.338	CULVERT	N/A	
2.360	2.360	CULVERT	N/A	
2.571	2.608	GUARDRAIL	RIGHT	
2.644	2.644	CULVERT	N/A	
2.660	2.660	CULVERT	N/A	
2.707	2.707	INTERSECTION	RIGHT	STATE ROUTE 252
2.708	2.708	INTERSECTION	LEFT	STATE ROUTE 252
2.710	2.710			ROUTE ENDS AT STATE ROUTE 252

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501 : INNER LINE DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE ROUTE 23
0.007	0.007	INTERSECTION	RIGHT	STATE ROUTE 23
0.008	0.008	INTERSECTION	LEFT	STATE ROUTE 23
0.065	0.087	CURB	RIGHT	
0.183	0.183	INTERSECTION	LEFT	RTE 213
0.249	0.249	CULVERT	N/A	
0.345	0.345	CULVERT	N/A	
0.483	0.483	INTERSECTION	LEFT	GULPH ROAD
0.483	0.483	INTERSECTION	RIGHT	GULPH ROAD
0.600	0.600	CULVERT	N/A	
0.670	0.670	CULVERT	N/A	
0.812	0.812	CULVERT	N/A	
0.846	0.846	CULVERT	N/A	
0.911	0.941	GUARDRAIL	RIGHT	
1.094	1.094	INTERSECTION	RIGHT	RTE 104
1.160	1.160	CULVERT	N/A	
1.213	1.213	CULVERT	N/A	
1.423	1.486	GUARDRAIL	RIGHT	
1.459	1.459	CULVERT	N/A	
1.612	1.612	CULVERT	N/A	
1.719	1.719	CULVERT	N/A	
1.796	1.796	INTERSECTION	RIGHT	RTE 926
1.846	1.902	GUARDRAIL	RIGHT	
1.955	1.955	CULVERT	N/A	
1.976	1.976	INTERSECTION	RIGHT	RTE 927
2.052	2.052	INTERSECTION	RIGHT	RTE 927
2.089	2.089	INTERSECTION	RIGHT	RTE 927

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501 : INNER LINE DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.265	2.265	CULVERT	N/A	
2.306	2.306	INTERSECTION	LEFT	GULPH ROAD
2.321	2.321	INTERSECTION	RIGHT	GULPH ROAD
2.374	2.374	INTERSECTION	RIGHT	RTE 928
2.444	2.444	CULVERT	N/A	
2.467	2.467	INTERSECTION	RIGHT	RTE 928
2.504	2.504	CULVERT	N/A	
2.565	2.565	CULVERT	N/A	
2.667	2.667	CULVERT	N/A	
2.715	2.715	CULVERT	N/A	
2.798	2.798	CULVERT	N/A	
2.820	2.820	INTERSECTION	RIGHT	RTE 929
2.847	2.847	INTERSECTION	RIGHT	RTE 929
2.853	2.853	INTERSECTION	LEFT	STATE ROUTE 23
2.854	2.854	INTERSECTION	RIGHT	STATE ROUTE 23
2.860	2.860			ROUTE ENDS AT STATE ROUTE 23

VAFO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0502 : RIVER ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 921
0.034	0.034	INTERSECTION	RIGHT	RTE 920
0.060	0.060	CULVERT	N/A	
0.094	0.094	INTERSECTION	LEFT	RTE 919
0.156	0.156	INTERSECTION	RIGHT	RTE 918B
0.160	0.218	GUARDRAIL	LEFT	
0.168	0.171	CURB	LEFT	
0.170	0.170	DROP INLET	RIGHT	
0.244	0.244	INTERSECTION	RIGHT	RTE 918B
0.319	0.319	INTERSECTION	LEFT	RTE 918A
0.339	0.339	INTERSECTION	LEFT	RTE 918A
0.378	0.378	INTERSECTION	LEFT	RTE 918A
0.379	0.379	INTERSECTION	RIGHT	RTE 502
0.391	0.391	INTERSECTION	LEFT	STATE ROUTE 23
0.394	0.394	INTERSECTION	RIGHT	STATE ROUTE 23
0.400	0.400			ROUTE ENDS AT STATE ROUTE 23

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
4860	Numeric Code for Valley Forge National Historical Park
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)
Poor	Poor Rating with an index value of 60 or less

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

APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

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

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

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

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

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

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

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

Rating Index Formulas

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

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

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

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

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

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

Ratings - Chip Seal:

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

Surface Condition - Asphalt:

Cracking of any type
Rutting
Potholes/Patching

Ratings - Asphalt:

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

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

Excellent	97
Good	90
Fair	73
Poor	45

Drainage Condition Rating Definitions

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

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

Drainage Condition Rating Criteria

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

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

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

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

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

Shoulder Condition Rating Definitions

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

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

Shoulder Rating Criteria

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

Good Shoulders

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

Poor Shoulder

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

APPENDIX C: DIGITAL IMAGE INFORMATION

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

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

APPENDIX D: METADATA

ARAN ROUTE GPS DATA

Background information of route spatial data.

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

Data Collection Device:

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

Accuracy: Expected ground accuracy is 1 meter *

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

Geographic Datum: WGS 1984

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

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

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

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

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

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

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

Specific Caveats

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

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

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

Key to Notes in Tables

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

Access Database Metadata

Master Table Metadata:

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

PMS_Feature Table Metadata:

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

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

PMS_20, PMS_Mile & PMS_Visidata Tables Metadata:

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

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

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

Cycle 3 Shapefile Metadata

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

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: WGS 1984

vafo_mi_pt

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: vafo_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: -75.465935
East_Bounding_Coordinate: -75.420563
North_Bounding_Coordinate: 40.109142
South_Bounding_Coordinate: 40.085964
Keywords:
Theme:
Theme_Keyword_Thesaurus: VAFO
Theme_Keyword: VAFO
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: 17

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Metadata_Reference_Information:
Metadata_Date: 20050516
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia

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

Generated by mp version 2.7.33 on Mon May 16 09:42:40 2005

vafo_nonnps

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: vafo_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:
REQUIRED: The basis on which the time period of content information is determined.
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -75.474753
East_Bounding_Coordinate: -75.416882
North_Bounding_Coordinate: 40.112127
South_Bounding_Coordinate: 40.078763
Keywords:
Theme:
Theme_Keyword_Thesaurus: VAFO

Theme_Keyword: VAFO
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: 10

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: vafo_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: 20050516
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle

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

Generated by mp version 2.7.33 on Mon May 16 09:42:23 2005

vafo_pkg_03_map

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: vafo_pkg_03_map
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Copy of Parking Areas
Purpose: Road Inventory Program
Supplemental_Information:
This shapefile is a copy of the source parking shapefile. The features are edited as needed for graphic purposes.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 6/29/02
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -75.471118
East_Bounding_Coordinate: -75.419075
North_Bounding_Coordinate: 40.111083
South_Bounding_Coordinate: 40.080530
Keywords:
Theme:
Theme_Keyword_Thesaurus: VAFO
Theme_Keyword: VAFO
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: 49

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: vafo_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: 20050516
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

Generated by mp version 2.7.33 on Mon May 16 09:43:03 2005

vafo_pkg_03

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: vafo_pkg_03
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: Not Available
Description:
Abstract: Parking Areas
Purpose: Road Inventory Program
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 6/29/02
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -75.471084
East_Bounding_Coordinate: -75.419015
North_Bounding_Coordinate: 40.111083
South_Bounding_Coordinate: 40.080552
Keywords:
Theme:
Theme_Keyword_Thesaurus: VAFO
Theme_Keyword: VAFO
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: 49

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: vafo_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: 20050516
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

Generated by mp version 2.7.33 on Mon May 16 09:43:14 2005

vafo_seg

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: vafo_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: -75.465935
East_Bounding_Coordinate: -75.420563
North_Bounding_Coordinate: 40.109901
South_Bounding_Coordinate: 40.083019
Keywords:
Theme:
Theme_Keyword_Thesaurus: VAFO
Theme_Keyword: VAFO

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

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

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 54

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: vafo_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: LENGTH
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: ID
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RT_LENGTH
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: PCR_RATEAV
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: PCRAV
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: TSR_EDIT
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.

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050516
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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vafo_mi

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: vafo_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: -75.465935
East_Bounding_Coordinate: -75.420563
North_Bounding_Coordinate: 40.109901
South_Bounding_Coordinate: 40.083019
Keywords:
Theme:
Theme_Keyword_Thesaurus:
REQUIRED: Reference to a formally registered thesaurus or a similar

authoritative source of theme keywords.
Theme_Keyword:
REQUIRED: Common-use word or phrase used to describe the subject of the data set.
Access_Constraints: None
Use_Constraints: Redistribution meeds permission from EFLHD/NPS
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Dan VanGilder
Contact_Organization: EFLHD
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 21400 Ridgetop Circle
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Good
Completeness_Report: Complete for routes
Lineage:
Source_Information:
Type_of_Source_Media: GPS
Process_Step:
Process_Description: Metadata imported.
Source_Used_Citation_Abbreviation:
J:\FHWA_RoadInvProg\Data\Park_TSR_source\Template_Folders\Section_10\template_mi_03.xml

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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: 17

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: vafo_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: LENGTH
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: ID
Attribute:
Attribute_Label: RTE_NO
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RT_LENGTH
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: PCRMI
Attribute_Definition: Numeric PCR definition
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0

Range_Domain_Maximum: 100
Attribute:
Attribute_Label: PCR_RATEMI
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: TSR_EDIT
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.

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050516
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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