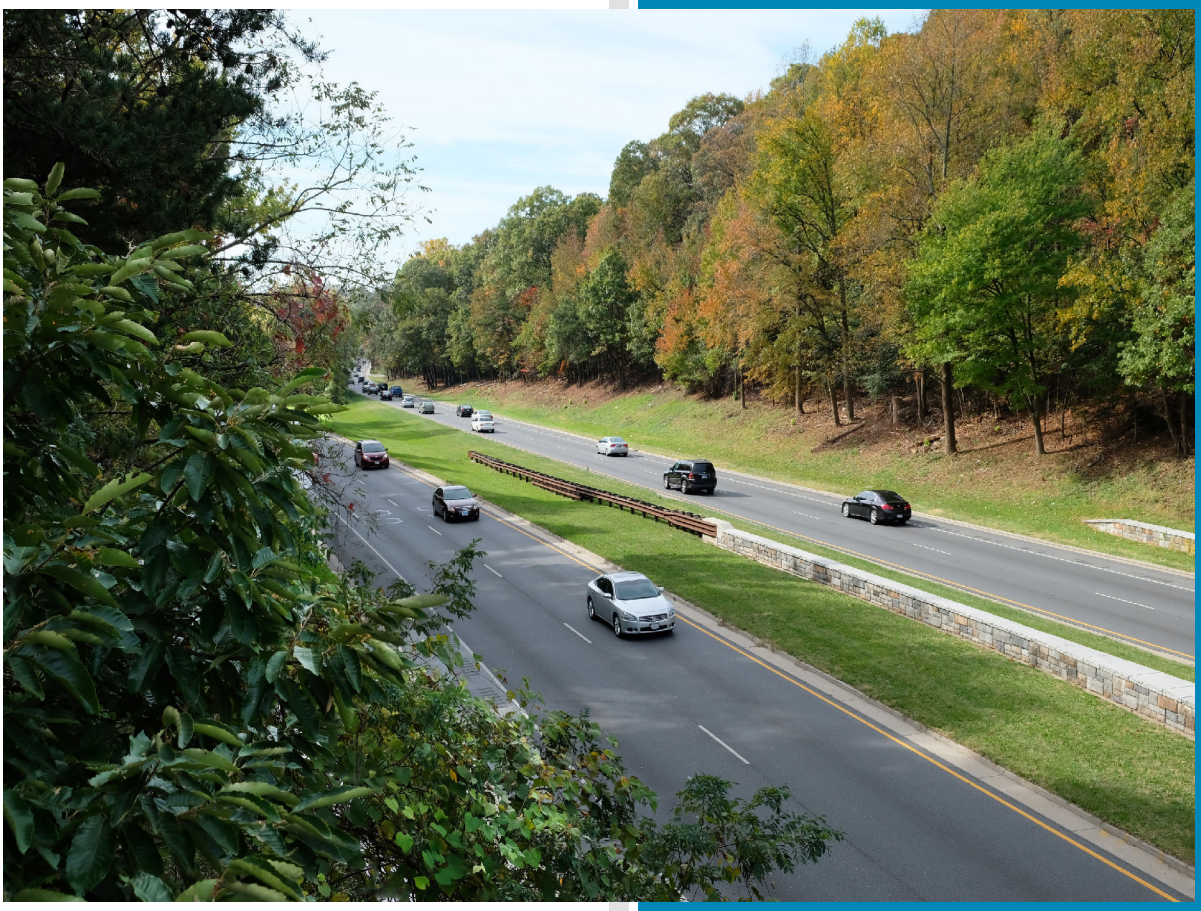
BAWA
Cycle 6

Final Report

Road Inventory and Condition Assessment of Paved Routes

Baltimore - Washington Parkway

Part of the National Capital Parks - East



Federal Lands Highway
Road Inventory Program

Prepared By:
Federal Highway Administration
Eastern Federal Lands Highway Division
Road Inventory Program (RIP)

Report Date: November 2019

National Capital Parks - East
in
Washington, DC and Maryland

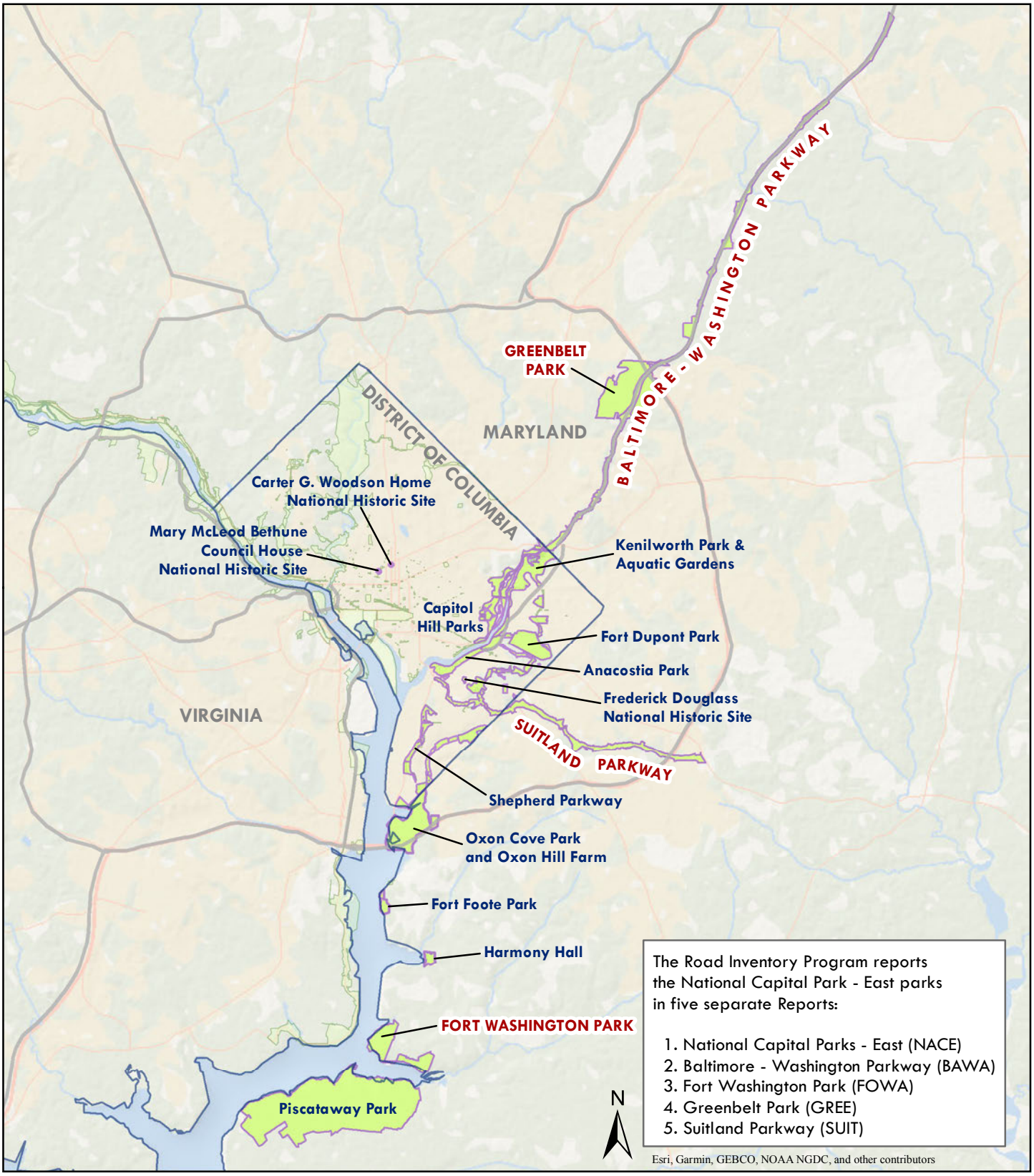


Table of Contents

Section 1
Introduction

Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

Introduction

The Federal Highway Administration's (FHWA), Road Inventory Program (RIP) inventories all roads and parking areas in the National Park System, and performs condition inspections on all paved roads and parking areas for the National Park Service (NPS). This report contains the results of the Cycle 6 condition assessment of paved roads and parking lots for this park unit. This assessment was done using an automated, state-of-the-art pavement inspection vehicle as well as manual ratings. This information represents the condition of the paved assets at the time of the inspection. The pavement management system utilized by FHWA and the NPS uses these assessments to estimate future conditions and help prioritize pavement maintenance and rehabilitation projects. Further information about RIP data and its role in managing paved roads and bridges can be obtained by contacting the NPS Regional Transportation Program Manager.

A History of the Road Inventory Program:

The FHWA, in the mid-1970s, was charged with the task of identifying surface condition deficiencies and corrective priorities on NPS roads and parkways. Additionally, FHWA was tasked with establishing an integrated maintenance features inventory, locating features such as culverts, guardrails, and signs, among others, along NPS roads and parkways. As a result, in 1976 the NPS and FHWA entered into a Memorandum of Agreement (MOA) which established the RIP. This MOA was revised in 1980 to update RIP data collection standards and develop a long-range program to improve and maintain NPS roads to designated condition standards and establish a pavement management program.

The FHWA completed the initial phase of inventory in the early 1980s. As a result of this effort, each NPS unit included in the collection received a RIP Report known as the "Brown Book" which contained information that was inventoried during this first RIP phase. In the 1990s, a cyclical program was developed, and since then five cycles of collection have been completed. Cycle 6 is currently in progress. A summary of the RIP collection cycles is shown in the table below.

Cycle	Years	Parks Collected
Cycle 1	1994 - 1997	° 44 Large Parks
Cycle 2	1997 - 2001	° 79 Large Parks ° 5 Small Parks
Cycle 3	2001 - 2004	° All Large Parks ° All Small Parks
Cycle 4	2006 - 2010	° 86 Large Parks ° Several Small Parks
Cycle 5	2010 - 2014	° All Large Parks (Only functional class 1, 2, 7, and new/modified routes collected) ° All Small Parks (all roads and parking areas collected)
Cycle 6	2014 – 2020 (±)	° All roads and parking areas collected at all Parks ° Additional partial collections of functional class 1, 2, and 7 roads at Large Parks ° Cycle 6 is expected to last 6 years

Note: Large Parks have ≥ 10 Paved Miles; Small Parks have < 10 Paved Miles

Since 1984, the Road Inventory Program has been funded through the Federal Lands Highway Park Roads and Parkways (PRP) Program. Currently, coordination of the RIP with Federal Lands Highway (FLH) is under the NPS Washington Headquarters Park Facility Management Division. 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) requiring the FHWA and NPS, to develop by rule, a Pavement Management System (PMS) applied to park roads and parkways serving the National Park System.

In 2012, the Moving Ahead for Progress in the 21st Century Act (MAP-21) amended Title 23 U.S.C., and under Section 203(c)(1-2) stated that the National Park Service in cooperation with the DOT/FHWA, shall maintain a comprehensive national inventory of their transportation facilities, with the goal of quantifying transportation infrastructure needs within the National Park System.

A History of the Pavement Management System:

In 2005, the FHWA began implementing the use of a pavement management system to assist the NPS in prioritizing Pavement Maintenance and Rehabilitation activities. The system used by FHWA is the Highway Pavement Management Application (HPMA), which has the ability to store inventory and condition data from RIP and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Regional, Park, or Route level. Regional prioritized lists and optimizations have been produced for most regions, and the Service's overall roadway Deferred Maintenance is calculated via the HPMA.

Overview of Cycle 6:

Cycle 6 launched in the spring of 2014 and will again comprise all NPS park units that are served by paved roads and/or parking areas. For Cycle 6, all paved roads (approximately 5,700 miles) and parking areas will be collected in all parks at least once, while the primary routes (functional class 1, 2, and 7 roads) at Large Parks will have additional collections. These multiple collections will provide updated condition data on a majority of the NPS's primary road network and help build a better pavement management system, allowing for more accurate pavement performance prediction models.

FLH is responsible for the accuracy of all data presented in this report. Any questions or comments concerning the contents of this report should be directed to the national RIP Coordinator located in Sterling, Virginia.

Respectfully,

FHWA RIP Team

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Section 2
Park Route Inventory

Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

Report Date: 11/18/2019

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven | Grey = Paved Routes, DCV not Driven | Black = Non-NPS Routes | = Concession Route

Yellow = Unpaved Routes, DCV not Driven | Blue = Paved Parking Areas | Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA Baltimore - Washington Parkway

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
0001	6	2	18479		BALTIMORE-WASHINGTON PARKWAY (NB)	FROM MD/DC LINE (EAST SIDE OF BRIDGE OVER ANACOSTIA RIVER)	TO JESSUP ROAD (STATE HIGHWAY 175) OVERPASS		YES	18.92	0.00	18.92	7		AS	1,2,3,4,5
0002	6	2	52143		BALTIMORE-WASHINGTON PARKWAY (SB)	FROM JESSUP ROAD (STATE HIGHWAY 175) OVERPASS	TO MD/DC LINE (EAST SIDE OF BRIDGE OVER ANACOSTIA RIVER)		YES	18.89	0.00	18.89	7		AS	1,2,3,4,5
0003	6	2	108491		SPRINGFIELD ROAD WEST	FROM POWDER MILL ROAD	TO PARK BOUNDARY		YES	0.44	0.00	0.44	1		AS	3
0500ZZ	6	2	52145		U.S. HIGHWAY 50, MD HIGHWAY 201 INTERCHANGE RAMPS	FROM BALTIMORE-WASHINGTON PARKWAY AND U.S. HIGHWAY 50	TO BALTIMORE-WASHINGTON PARKWAY AND U.S. HIGHWAY 50		YES	0.19	0.00	0.19	7		AS	5
0501ZZ	6	2	52149		KENILWORTH AVENUE INTERCHANGE RAMPS	FROM BALTIMORE-WASHINGTON PARKWAY AND KENILWORTH AVENUE	TO BALTIMORE-WASHINGTON PARKWAY AND KENILWORTH AVENUE		YES	1.01	0.00	1.01	7		AS	5
0502ZZ	6	2	52152		LANDOVER ROAD RAMPS (MD HIGHWAY 202 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY, HOSPITAL DRIVE, AND LANDOVER ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND LANDOVER ROAD		YES	0.76	0.00	0.76	7		AS	5
0503ZZ	6	2	52154		ANNAPOLIS ROAD RAMPS (MD HIGHWAY 450 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND ANNAPOLIS ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND ANNAPOLIS ROAD		YES	0.96	0.00	0.96	7		AS	5
0504ZZ	6	2	52155		RIVERDALE ROAD RAMPS (MD HIGHWAY 410 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND RIVERDALE ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND RIVERDALE ROAD		YES	0.68	0.00	0.68	7		AS	4
0505ZZ	6	2	52157		GREENBELT ROAD RAMPS (MD HIGHWAY 193 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY, SOUTHWAY AND GREENBELT ROAD	TO BALTIMORE-WASHINGTON PARKWAY, SOUTHWAY AND GREENBELT ROAD		YES	0.82	0.00	0.82	7		AS	4

Report Date: 11/18/2019

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Non-NPS Routes

= Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
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BAWA Baltimore - Washington Parkway

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
0506ZZ	6	2	52158		POWDER MILL ROAD RAMPS (MD HIGHWAY 212 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND POWDER MILL ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND POWDER MILL ROAD		YES	0.88	0.00	0.88	7		AS	3
0507ZZ	6	2	52161		LAUREL-BOWIE ROAD RAMPS (MD HIGHWAY 197 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND LAUREL-BOWIE ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND LAUREL-BOWIE ROAD		YES	1.62	0.00	1.62	7		AS	3
0508ZZ	6	2	52165		LAUREL FORT MEADE ROAD RAMPS (MD HIGHWAY 198 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND LAUREL FORT MEADE ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND LAUREL FORT MEADE ROAD		YES	1.89	0.00	1.89	7		AS	2
0509ZZ	6	2	52169		PATUXENT FREEWAY RAMPS (MD HIGHWAY 32 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND PATUXENT FREEWAY	TO BALTIMORE-WASHINGTON PARKWAY AND PATUXENT FREEWAY		YES	2.83	0.00	2.83	7		AS	1
0510ZZ	6	2	52171		JESSUP ROAD INTERCHANGE RAMPS (MD HIGHWAY 175 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND JESSUP ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND JESSUP ROAD		YES	0.85	0.00	0.85	7		AS	1
0511ZZ	6	2	252466		RAMPS TO NASA GODDARD SPACE FLIGHT CENTER	FROM BALTIMORE-WASHINGTON PARKWAY AND NASA GODDARD SPACE FLIGHT CENTER	TO BALTIMORE-WASHINGTON PARKWAY AND NASA GODDARD SPACE FLIGHT CENTER		YES	0.70	0.00	0.70	7		AS	4

Report Date: 11/18/2019

Cycle 6 NPS / RIP Route ID Report

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BAWA *Baltimore - Washington Parkway*

NON-NPS ROADS INVENTORY

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
5000	5	1			W/B U.S. HIGHWAY 50 RAMP TO S/B INTERSTATE 295 (I-295)	FROM U.S. HIGHWAY 50 EASTBOUND	TO ROUTE 0501ZZ (KENILWORTH AVENUE INTERCHANGE RAMPS)		NO	0.12	0.00	0.12			AS	5
5001	5	1			BW PARKWAY N/B RAMP TO E/B INTERSTATE 95 (I-95)	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO E/B INTERSTATE 95 (I-95)		NO	0.30	0.00	0.30			AS	4
5002	5	1			W/B INTERSTATE 95 (I-95) RAMP TO N/B BW PARKWAY	FROM W/B INTERSTATE 95 (I-95)	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))		NO	0.33	0.00	0.33			AS	4
5003	5	1			BW PARKWAY S/B RAMP TO W/B INTERSTATE 95 (I-95)	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO W/B INTERSTATE 95 (I-95)		NO	0.29	0.00	0.29			AS	4
5004	5	1			E/B INTERSTATE 95 (I-95) RAMP TO S/B BW PARKWAY	FROM E/B INTERSTATE 95 (I-95)	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))		NO	0.32	0.00	0.32			AS	4
5005	5	1			E/B INTERSTATE 95 (I-95) RAMP TO N/B BW PARKWAY	FROM E/B INTERSTATE 95 (I-95)	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))		NO	0.18	0.00	0.18			AS	4
5006	5	1			BW PARKWAY N/B RAMP TO W/B INTERSTATE 95 (I-95)	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO W/B INTERSTATE 95 (I-95)		NO	0.22	0.00	0.22			AS	4
5007	5	1			W/B INTERSTATE 95 (I-95) RAMP TO S/B BW PARKWAY	FROM W/B INTERSTATE 95 (I-95)	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))		NO	0.19	0.00	0.19			AS	4
5008	5	1			BW PARKWAY S/B RAMP TO E/B INTERSTATE 95 (I-95)	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO E/B INTERSTATE 95 (I-95)		NO	0.21	0.00	0.21			AS	4
5009	5	1			W/B INTERSTATE 95 (I-95) RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (EB)	FROM ROUTE 5002 (W/B INTERSTATE 95 (I-95) RAMP TO N/B BW PARKWAY)	TO GREENBELT ROAD (MD HIGHWAY 193) (E/B)		NO	0.32	0.00	0.32			AS	4

Report Date: 11/18/2019

Cycle 6 NPS / RIP Route ID Report

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Road Inventory Program

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Cycle 6 Summary Totals for Baltimore - Washington Parkway

Cycle 6 Route Totals

	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	51.44	0	**51.44**
Paved Roads, Manually Rated Length (Miles)	0	0	**0**
Paved Roads, Manually Rated Area (Sq. Ft.)	0	0	**0**
Unpaved Roads (Miles)	0	0	**0**
Paved Parking (Sq. Ft.)	0	0	**0**
Unpaved Parking (Sq. Ft.)	0	0	**0**

Cycle 6 Lane Miles and Overall Pavement Condition

	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	125.42	88
Manually Rated Roads	0	N/A
Parking Areas	0.00	N/A

* Equivalent Lane Miles are calculated by route using the following equations:
- DCV and MRLs = (PAVE_WIDTH x PAVED_MI) / 11 foot lane
- MRPs and PKGs = SQ_FEET / 5280 / 11 foot lane

**Parking and Manually Rated Routes are assigned the following PCR values based on the type of observed distresses:
-Excellent = 97 -Good = 90 -Fair = 73
-Poor = 53, 30, or 0 -Construction / Not Rated = -1

Report Date: 11/18/2019

Cycle 6 NPS / RIP Route ID Report

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General Park Road Functional Classification (FC) Table

FC	Type	User Access	Description	Route Numbers
1	Principal Park Road Rural Parkway	Public	Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Rural Parkways (e.g. Natchez Trace) are numbered 0001 - 0009.	0001 - 0009 0010 - 0099
2	Connector Park Road	Public	Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc.	0100 - 0199
3	Special Purpose Park Road	Public	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.	0200 - 0299
4	Primitive Park Road	Public	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. Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.	0200 - 0299
5	Administrative Park Road	Public	All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas.	0400 - 0499
6	Administrative Park Road (Restricted Access)	Nonpublic	All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. 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.	0400 - 0499
7	Urban Parkway	Public	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.	0001 - 0009
8	City Street	Public	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.	0600 - 0699
N/A	Non-NPS Roads	Public	State, County, or City owned roads which border, traverse, or provide access to Park Facilities or Locations. Non-NPS roads are not assigned functional classes and are driven for GPS and Video Log only.	5000 - 5999

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

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

The historic route numbering system also included a 300 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.

Report Date: 11/18/2019

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven

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Black = Paved Routes, Non-NPS

= Concession Route

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BAWA *Baltimore - Washington Parkway*

SUMMARY ROUTE INVENTORY FOR ROADS (1100 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0500ZZ	52145	6	2		U.S. HIGHWAY 50, MD HIGHWAY 201 INTERCHANGE RAMPS	FROM BALTIMORE-WASHINGTON PARKWAY AND U.S. HIGHWAY 50	TO BALTIMORE-WASHINGTON PARKWAY AND U.S. HIGHWAY 50	YES	0.19	0.00	0.19	7	
0501ZZ	52149	6	2		KENILWORTH AVENUE INTERCHANGE RAMPS	FROM BALTIMORE-WASHINGTON PARKWAY AND KENILWORTH AVENUE	TO BALTIMORE-WASHINGTON PARKWAY AND KENILWORTH AVENUE	YES	1.01	0.00	1.01	7	
0502ZZ	52152	6	2		LANDOVER ROAD RAMPS (MD HIGHWAY 202 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY, HOSPITAL DRIVE, AND LANDOVER ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND LANDOVER ROAD	YES	0.76	0.00	0.76	7	
0503ZZ	52154	6	2		ANNAPOLIS ROAD RAMPS (MD HIGHWAY 450 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND ANNAPOLIS ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND ANNAPOLIS ROAD	YES	0.96	0.00	0.96	7	
0504ZZ	52155	6	2		RIVERDALE ROAD RAMPS (MD HIGHWAY 410 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND RIVERDALE ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND RIVERDALE ROAD	YES	0.68	0.00	0.68	7	
0505ZZ	52157	6	2		GREENBELT ROAD RAMPS (MD HIGHWAY 193 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY, SOUTHWAY AND GREENBELT ROAD	TO BALTIMORE-WASHINGTON PARKWAY, SOUTHWAY AND GREENBELT ROAD	YES	0.82	0.00	0.82	7	
0506ZZ	52158	6	2		POWDER MILL ROAD RAMPS (MD HIGHWAY 212 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND POWDER MILL ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND POWDER MILL ROAD	YES	0.88	0.00	0.88	7	
0507ZZ	52161	6	2		LAUREL-BOWIE ROAD RAMPS (MD HIGHWAY 197 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND LAUREL-BOWIE ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND LAUREL-BOWIE ROAD	YES	1.62	0.00	1.62	7	
0508ZZ	52165	6	2		LAUREL FORT MEADE ROAD RAMPS (MD HIGHWAY 198 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND LAUREL FORT MEADE ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND LAUREL FORT MEADE ROAD	YES	1.89	0.00	1.89	7	
0509ZZ	52169	6	2		PATUXENT FREEWAY RAMPS (MD HIGHWAY 32 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND PATUXENT FREEWAY	TO BALTIMORE-WASHINGTON PARKWAY AND PATUXENT FREEWAY	YES	2.83	0.00	2.83	7	
0510ZZ	52171	6	2		JESSUP ROAD INTERCHANGE RAMPS (MD HIGHWAY 175 INTERCHANGE)	FROM BALTIMORE-WASHINGTON PARKWAY AND JESSUP ROAD	TO BALTIMORE-WASHINGTON PARKWAY AND JESSUP ROAD	YES	0.85	0.00	0.85	7	
0511ZZ	252466	6	2		RAMPS TO NASA GODDARD SPACE FLIGHT CENTER	FROM BALTIMORE-WASHINGTON PARKWAY AND NASA GODDARD SPACE FLIGHT CENTER	TO BALTIMORE-WASHINGTON PARKWAY AND NASA GODDARD SPACE FLIGHT CENTER	YES	0.70	0.00	0.70	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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BAWA *Baltimore - Washington Parkway*

BAWA-0500ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0500AZ	52145	6	2		RAMP FROM N/B BW PARKWAY TO E/B U.S. HIGHWAY 50	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB)) AT MP 0.19	TO U.S. HIGHWAY 50 EASTBOUND	YES	0.11	0.00	0.11	7	
0500BZ	52145	6	2		RAMP FROM W/B U.S. HIGHWAY 50 TO S/B BW PARKWAY	FROM U.S. HIGHWAY 50 WESTBOUND	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB)) AT MP 18.49	YES	0.08	0.00	0.08	7	

BAWA-0501ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0501AZ	52149	6	2		RAMP FROM N/B KENILWORTH AVENUE TO N/B BW PARKWAY	FROM PARK BOUNDARY	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB)) AT MP 0.66	YES	0.16	0.00	0.16	7	
0501BZ	52149	6	2		BW PARKWAY S/B RAMP TO S/B 295	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO END OF ROUTE 5000 (W/B U.S. HIGHWAY 50 RAMP TO S/B INTERSTATE 295 (I-295))	YES	0.33	0.00	0.33	7	
0501CZ	52149	6	2		RAMP FROM S/B KENILWORTH AVENUE TO S/B BW PARKWAY	FROM KENILWORTH AVENUE AT PAVEMENT CHANGE	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.52	0.00	0.52	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

= Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0502ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0502AZ	52152	6	2		RAMP FROM N/B BW PARKWAY TO ROUTE 202	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO LANDOVER ROAD	YES	0.19	0.00	0.19	7	
0502BZ	52152	6	2		RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY	FROM HOSPITAL DRIVE AT PAVEMENT CHANGE	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.16	0.00	0.16	7	
0502CZ	52152	6	2		RAMP FROM ROUTE 202 TO S/B BW PARKWAY	FROM LANDOVER ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.12	0.00	0.12	7	
0502DZ	52152	6	2		S/B BW PARKWAY RAMP TO ROUTE 202	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO LANDOVER ROAD	YES	0.16	0.00	0.16	7	
0502EZ	52152	6	2		RAMP FROM ROUTE 202 TO RAMP FROM HOSPITAL DRIVE	FROM LANDOVER ROAD	TO ROUTE 0502BZ (RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY)	YES	0.13	0.00	0.13	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

= Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0503ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0503AZ	52154	6	2		N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO ANNAPOLIS ROAD	YES	0.20	0.00	0.20	7	
0503BZ	52154	6	2		N/B BW PARKWAY RAMP TO E/B MD HIGHWAY 450 SPUR	FROM ROUTE 0503AZ (N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450)	TO ANNAPOLIS ROAD EASTBOUND	YES	0.08	0.00	0.08	7	
0503CAZ	52154	6	2		S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB)	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO ANNAPOLIS ROAD EASTBOUND AND WESTBOUND	YES	0.22	0.00	0.22	7	
0503CBZ	52154	6	2		S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (WB)	FROM ROUTE 0503CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB))	TO ANNAPOLIS ROAD WESTBOUND	YES	0.03	0.00	0.03	7	
0503DAZ	52154	6	2		RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY	FROM ANNAPOLIS ROAD WESTBOUND	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.20	0.00	0.20	7	
0503DBZ	52154	6	2		RAMP FROM E/B AND W/B MD HIGHWAY 450 TO S/B BW PARKWAY	FROM ANNAPOLIS ROAD EASTBOUND AND WESTBOUND	TO ROUTE 0503DAZ (RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY)	YES	0.03	0.00	0.03	7	
0503EZ	52154	6	2		RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY	FROM ANNAPOLIS ROAD	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.15	0.00	0.15	7	
0503FZ	52154	6	2		RAMP FROM W/B MD HIGHWAY 450 TO N/B BW PARKWAY SPUR	FROM ANNAPOLIS ROAD WESTBOUND	TO ROUTE 0503EZ (RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY)	YES	0.06	0.00	0.06	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

= Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0504ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0504AZ	52155	6	2		N/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO RIVERDALE ROAD	YES	0.21	0.00	0.21	7	
0504BZ	52155	6	2		S/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO RIVERDALE ROAD	YES	0.18	0.00	0.18	7	
0504CZ	52155	6	2		RAMP FROM RIVERDALE ROAD (RT. 410) TO N/B BW PARKWAY	FROM RIVERDALE ROAD	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.14	0.00	0.14	7	
0504DZ	52155	6	2		RAMP FROM RIVERDALE ROAD (RT. 410) TO S/B BW PARKWAY	FROM RIVERDALE ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.15	0.00	0.15	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven
Grey = Paved Routes, DCV not Driven
Black = Paved Routes, Non-NPS
= Concession Route
Yellow = Unpaved Routes, DCV not Driven
Blue = Paved Parking Areas
Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0505ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0505AAZ	52157	6	2		N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB)	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO GREENBELT ROAD WESTBOUND	YES	0.27	0.00	0.27	7	
0505ABZ	52157	6	2		N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB)	FROM ROUTE 0505AAZ (N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB))	TO GREENBELT ROAD EASTBOUND AND WESTBOUND	YES	0.04	0.00	0.04	7	
0505BAZ	52157	6	2		RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY	FROM GREENBELT ROAD WESTBOUND	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.19	0.00	0.19	7	
0505BBZ	52157	6	2		RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB) TO N/B BW PARKWAY	FROM GREENBELT ROAD EASTBOUND AND WESTBOUND	TO ROUTE 0505BAZ (RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY)	YES	0.02	0.00	0.02	7	
0505CZ	52157	6	2		S/B BW PARKWAY RAMP TO SOUTHWAY	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO SOUTHWAY ROAD	YES	0.15	0.00	0.15	7	
0505DAZ	52157	6	2		RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY	FROM SOUTHWAY ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.12	0.00	0.12	7	
0505DBZ	52157	6	2		RAMP FROM SOUTHWAY TO S/B BW PARKWAY	FROM SOUTHWAY ROAD	TO ROUTE 0505DAZ (RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY)	YES	0.03	0.00	0.03	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

= Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0506ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0506AZ	52158	6	2		N/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO POWDER MILL ROAD	YES	0.22	0.00	0.22	7	
0506BZ	52158	6	2		S/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO POWDER MILL ROAD	YES	0.26	0.00	0.26	7	
0506CZ	52158	6	2		RAMP FROM POWDER MILL ROAD (ROUTE 212) TO N/B BW PARKWAY	FROM POWDER MILL ROAD	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.22	0.00	0.22	7	
0506DZ	52158	6	2		RAMP FROM POWDER MILL ROAD (ROUTE 212) TO S/B BW PARKWAY	FROM POWDER MILL ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.18	0.00	0.18	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

= Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0507ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0507AZ	52161	6	2		N/B BW PARKWAY RAMP TO S/B ROUTE 197	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO S/B LAUREL-BOWIE ROAD	YES	0.31	0.00	0.31	7	
0507CZ	52161	6	2		RAMP FROM ROUTE 197 TO N/B BW PARKWAY	FROM LAUREL-BOWIE ROAD	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.26	0.00	0.26	7	
0507DZ	52161	6	2		RAMP FROM ROUTE 197 N/B TO S/B BW PARKWAY	FROM N/B LAUREL-BOWIE ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.23	0.00	0.23	7	
0507EZ	52161	6	2		S/B BW PARKWAY RAMP TO ROUTE 197	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO LAUREL-BOWIE ROAD	YES	0.21	0.00	0.21	7	
0507FZ	52161	6	2		RAMP FROM ROUTE S/B 197 TO S/B BW PARKWAY	FROM S/B LAUREL-BOWIE ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.35	0.00	0.35	7	
0507GZ	52161	6	2		N/B BW PARKWAY RAMP TO N/B ROUTE 197 SPUR	FROM ROUTE 0507AZ (N/B BW PARKWAY RAMP TO S/B ROUTE 197)	TO N/B LAUREL-BOWIE ROAD	YES	0.26	0.00	0.26	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven	Grey = Paved Routes, DCV not Driven	Black = Paved Routes, Non-NPS
Yellow = Unpaved Routes, DCV not Driven	Blue = Paved Parking Areas	Green = Unpaved Parking Areas

= Concession Route

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0508ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0508AZ	52165	6	2		N/B BW PARKWAY RAMP TO E/B ROUTE 198	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO E/B LAUREL FORT MEADE ROAD	YES	0.51	0.00	0.51	7	
0508BZ	52165	6	2		RAMP FROM W/B ROUTE 198 TO N/B BW PARKWAY	FROM W/B LAUREL FORT MEADE ROAD	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.32	0.00	0.32	7	
0508CAZ	52165	6	2		S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB)	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO LAUREL FORT MEADE ROAD EASTBOUND AND WESTBOUND	YES	0.20	0.00	0.20	7	
0508CBZ	52165	6	2		S/B BW PARKWAY RAMP TO HIGHWAY 198 (WB)	FROM ROUTE 0508CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB))	TO FORT MEADE ROAD WESTBOUND	YES	0.03	0.00	0.03	7	
0508DZ	52165	6	2		RAMP FROM ROUTE 198 TO S/B BW PARKWAY	FROM LAUREL FORT MEADE ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.21	0.00	0.21	7	
0508EZ	52165	6	2		N/B BW PARKWAY RAMP TO W/B ROUTE 198	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO W/B LAUREL FORT MEADE ROAD	YES	0.24	0.00	0.24	7	
0508FZ	52165	6	2		RAMP FROM E/B ROUTE 198 TO N/B BW PARKWAY	FROM E/B LAUREL FORT MEADE ROAD	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.38	0.00	0.38	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven	Grey = Paved Routes, DCV not Driven	Black = Paved Routes, Non-NPS
Yellow = Unpaved Routes, DCV not Driven	Blue = Paved Parking Areas	Green = Unpaved Parking Areas

= Concession Route

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0509ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0509AZ	52169	6	2		N/B BW PARKWAY RAMP TO W/B ROUTE 32	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO W/B PATUXENT FREEWAY	YES	0.22	0.00	0.22	7	
0509BZ	52169	6	2		RAMP FROM W/B ROUTE 32 TO S/B BW PARKWAY	FROM W/B PATUXENT FREEWAY	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.26	0.00	0.26	7	
0509CZ	52169	6	2		S/B BW PARKWAY RAMP TO E/B ROUTE 32	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO E/B PATUXENT FREEWAY	YES	0.29	0.00	0.29	7	
0509DZ	52169	6	2		RAMP FROM E/B ROUTE 32 TO N/B BW PARKWAY	FROM E/B PATUXENT FREEWAY	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.24	0.00	0.24	7	
0509EZ	52169	6	2		RAMP FROM W/B ROUTE 32 TO N/B BW PARKWAY	FROM W/B PATUXENT FREEWAY	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.28	0.00	0.28	7	
0509FZ	52169	6	2		S/B BW PARKWAY RAMP TO W/B ROUTE 32	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO W/B PATUXENT FREEWAY	YES	0.43	0.00	0.43	7	
0509GZ	52169	6	2		RAMP FROM E/B ROUTE 32 TO S/B BW PARKWAY	FROM E/B PATUXENT FREEWAY	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.58	0.00	0.58	7	
0509HZ	52169	6	2		N/B BW PARKWAY RAMP TO E/B ROUTE 32	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO E/B PATUXENT FREEWAY	YES	0.53	0.00	0.53	7	

NPS / RIP Subcomponent Details for BAWA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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White = Paved Routes, DCV Driven	Grey = Paved Routes, DCV not Driven	Black = Paved Routes, Non-NPS
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■ = Concession Route

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

BAWA *Baltimore - Washington Parkway*

BAWA-0510ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0510AZ	52171	6	2		N/B BW PARKWAY RAMP TO MD HIGHWAY 175	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO JESSUP ROAD/ANNAPOLIS ROAD	YES	0.24	0.00	0.24	7	
0510BZ	52171	6	2		S/B BW PARKWAY RAMP FROM MD HIGHWAY 175	FROM JESSUP ROAD/ANNAPOLIS ROAD	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.25	0.00	0.25	7	
0510CZ	52171				RAMP FROM E/B MD HIGHWAY 175 TO N/B BW PARKWAY	FROM ANNAPOLIS ROAD	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.18	0.00	0.18	7	
0510DZ	52171				S/B BW PARKWAY RAMP TO E/B MD HIGHWAY 175	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO JESSUP ROAD/ANNAPOLIS ROAD	YES	0.18	0.00	0.18	7	

BAWA-0511ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0511AZ	252466	6	2		N/B BW PARKWAY RAMP TO NASA	FROM ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	TO NASA GODDARD SPACE FLIGHT CENTER	YES	0.13	0.00	0.13	7	
0511BZ	252466	6	2		NASA RAMP TO N/B BW PARKWAY	FROM NASA GODDARD SPACE FLIGHT CENTER	TO ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))	YES	0.18	0.00	0.18	7	
0511CZ	252466	6	2		S/B BW PARKWAY RAMP TO NASA	FROM ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	TO NASA GODDARD SPACE FLIGHT CENTER	YES	0.18	0.00	0.18	7	
0511DZ	252466	6	2		NASA RAMP TO S/B BW PARKWAY	FROM NASA GODDARD SPACE FLIGHT CENTER	TO ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))	YES	0.20	0.00	0.20	7	

Route Identification Changes to Paved Routes from Previous Cycle
Baltimore - Washington Parkway

ROUTES ADDED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0511ZZ	RAMPS TO NASA GODDARD SPACE FLIGHT CENTER	OTHER	ROUTES ADDED TO THE INVENTORY IN CYCLE 6.

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0510ZZ	JESSUP ROAD INTERCHANGE RAMPS (MD HIGHWAY 175 INTERCHANGE)	OTHER	TWO NEW SUB-COMPONENTS (CZ AND DZ) ADDED AFTER COLLECTION, VERIFIED WITH PARK ON 04/01/2019.

Section 3
Park Summary Information

Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

Park Totals for National Capital Parks - East

Summary of Paved Mileages by Functional Class (FC)

		Paved Length by Functional Class (Miles)								
	Unit Code	FC 1	FC 2	FC 3	FC 4	FC 5	FC 6	FC 7	FC 8	Total by Unit
National Capital Parks - East	NACE	5.01	2.83	3.28		0.19	0.71			**12.02**
Baltimore - Washington Pkwy	BAWA	0.44						51.00		**51.44**
Fort Washington Park	FOWA	1.43	1.04			0.09	0.48			**3.04**
Greenbelt Park	GREE	2.97		2.03		0.04	0.56			**5.60**
Suitland Parkway	SUIT							16.39	0.08	**16.47**
Total Paved Mileage by FC:		**9.85**	**3.87**	**5.31**	**0**	**0.32**	**1.75**	**67.39**	**0.08**	**88.57**

Summary of Unpaved Mileages by Functional Class (FC)

		Unpaved Length by Functional Class (Miles)								
	Unit Code	FC 1	FC 2	FC 3	FC 4	FC 5	FC 6	FC 7	FC 8	Total by Unit
National Capital Parks - East	NACE	0.04	2.05	0.91	1.50	1.95	3.64			**10.08**
Baltimore - Washington Pkwy	BAWA									**0**
Fort Washington Park	FOWA						1.20			**1.20**
Greenbelt Park	GREE						1.92			**1.92**
Suitland Parkway	SUIT				0.34					**0.34**
Total Unpaved Mileage by FC:		**0.04**	**2.05**	**0.91**	**1.84**	**1.95**	**6.76**	**0**	**0**	**13.54**

Summary of Parking Areas by Access Level (Areas and Counts)

		Area (Sq. Ft.)				Counts			
	Unit Code	Paved Public	Paved Nonpublic	Unpaved Public	Unpaved Nonpublic	Paved Public	Paved Nonpublic	Unpaved Public	Unpaved Nonpublic
National Capital Parks - East	NACE	3,728,504	192,254	421,727	60,958	25	12	15	10
Baltimore - Washington Pkwy	BAWA								
Fort Washington Park	FOWA	306,122				13			
Greenbelt Park	GREE	129,728	45,155			17	2		
Suitland Parkway	SUIT		38,041				1		
	Totals:	**4,164,354**	**275,450**	**421,727**	**60,958**	**55**	**15**	**15**	**10**

Parkwide Paved Route Condition Summary
Baltimore - Washington Parkway

Table 1: Paved Route Miles and Parking Area Square Footages by Access Level and PCR

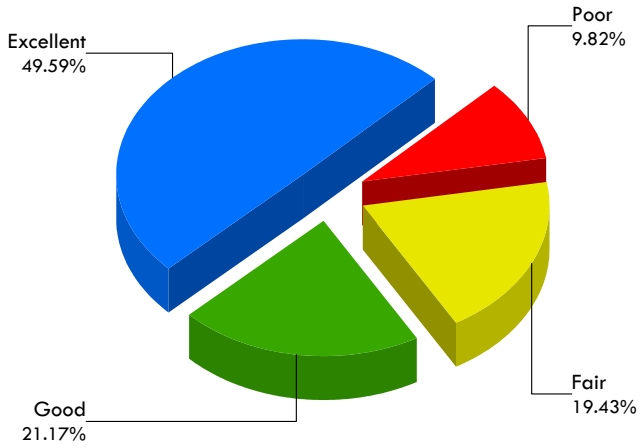
Breakdown of Pavement Condition Rating (PCR) Based on Access Level

	POOR (PCR of 0 - 60)	FAIR (PCR of 61 - 84)	GOOD (PCR of 85 - 94)	EXCELLENT (PCR of 95 -100)	
PAVED ROADS					
Functional Class	**Length (miles)**	**Length (miles)**	**Length (miles)**	**Length (miles)**	**Total Mileage by FC**
1	0.06	0.18	0.14	0.06	0.44
2					
3					
4					
5					
6					
7	4.94	9.71	10.63	25.18	50.46
8					
Total Mileage by PCR	**5.00**	**9.89**	**10.77**	**25.24**	**50.90**

NOTES:

1. Data are reported in the table only for paved roads and parking lots that received a condition rating.
2. Non-linear roads (MRP collected routes) are measured by area and converted to equivalent route miles based on a 22-ft pavement width in order to be included in the mileage totals for paved roads shown above.
3. Quantities in the table above are derived from the route condition data within the PMS_20, PMS_MRL, PMS_MRP, and PMS_PKG tables in the Park geodatabase.

Parkwide Condition Percentages



Road Condition Percentages

Figure 1: Pavement Condition Rating Breakdown for Paved Roads and Parking Areas

Explanation of the Excellent, Good, Fair, and Poor Condition Descriptions

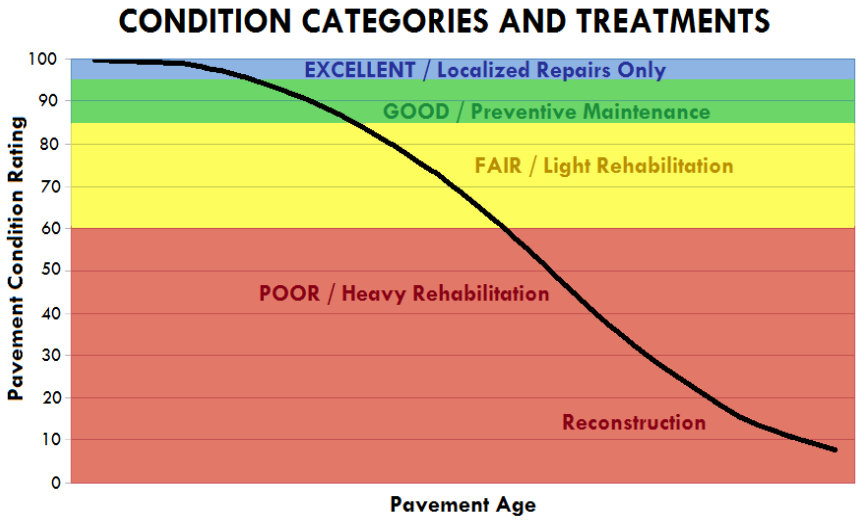
The Road Inventory Program aims to provide assistance in translating the excellent / good / fair / poor rating categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the type of treatments that should be considered now and into the future.

- Excellent / New: PCR of 95-100
  - Pavements in this range will require only spot repairs

- Good: PCR of 85-94
  - Pavements in this range will likely be candidates for Preventive Maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.

- Fair: PCR of 61-84
  - Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include singlelift overlays up to 2.5 inches in total thickness, milling and overlays.

- Poor: PCR of 0-60
  - Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.



At this time, specific Maintenance and Rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions at the time in which the data were collected. For further information or to obtain additional Pavement Management System's data from our Highway Pavement Management Application (HPMA) please contact the Eastern Federal Lands pavement team.

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
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Baltimore - Washington Parkway

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Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
BAWA-0001	18479	BALTIMORE-WASHINGTON PARKWAY (NB)	7	AS	18.92	93	100	89	89	100	89	93	100	98
BAWA-0002	52143	BALTIMORE-WASHINGTON PARKWAY (SB)	7	AS	18.89	93	100	88	88	100	88	91	100	99
BAWA-0003	108491	SPRINGFIELD ROAD WEST	1	AS	0.44	79	NR	79	79	99	80	99	100	100
BAWA-0500AZ	52145	RAMP FROM N/B BW PARKWAY TO E/B U.S. HIGHWAY 50	7	AS	0.11	75	NR	75	75	100	75	97	100	99
BAWA-0500BZ	52145	RAMP FROM W/B U.S. HIGHWAY 50 TO S/B BW PARKWAY	7	AS	0.08	93	NR	93	93	100	93	100	100	100
BAWA-0501AZ	52149	RAMP FROM N/B KENILWORTH AVENUE TO N/B BW PARKWAY	7	CO	0.16	99	NR	99	100	100	100	99	100	99
BAWA-0501BZ	52149	BW PARKWAY S/B RAMP TO S/B 295	7	AS	0.33	91	NR	91	91	100	91	93	100	99
BAWA-0501CZ	52149	RAMP FROM S/B KENILWORTH AVENUE TO S/B BW PARKWAY	7	AS	0.52	90	84	94	99	100	99	94	100	100
BAWA-0502AZ	52152	RAMP FROM N/B BW PARKWAY TO ROUTE 202	7	AS	0.19	98	NR	98	100	100	100	100	100	98
BAWA-0502BZ	52152	RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY	7	AS	0.16	98	NR	98	98	100	98	100	100	100
BAWA-0502CZ	52152	RAMP FROM ROUTE 202 TO S/B BW PARKWAY	7	AS	0.12	97	NR	97	100	100	100	97	100	100
BAWA-0502DZ	52152	S/B BW PARKWAY RAMP TO ROUTE 202	7	AS	0.16	95	NR	95	100	100	100	100	100	95
BAWA-0502EZ	52152	RAMP FROM ROUTE 202 TO RAMP FROM HOSPITAL DRIVE	7	AS	0.13	99	NR	99	100	100	100	100	100	99
BAWA-0503AZ	52154	N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450	7	AS	0.20	99	NR	99	100	100	100	100	100	99
BAWA-0503BZ	52154	N/B BW PARKWAY RAMP TO E/B MD HIGHWAY 450 SPUR	7	AS	0.08	100	NR	100	100	100	100	100	100	100
BAWA-0503CAZ	52154	S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB)	7	AS	0.22	98	NR	98	100	100	100	100	100	98
BAWA-0503CBZ	52154	S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (WB)	7	AS	0.03	96	NR	96	100	100	100	100	100	96
BAWA-0503DAZ	52154	RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY	7	AS	0.20	98	NR	98	100	100	100	98	100	100
BAWA-0503DBZ	52154	RAMP FROM E/B AND W/B MD HIGHWAY 450 TO S/B BW PARKWAY	7	AS	0.03	87	NR	87	87	100	87	88	100	97

Data Collection Date: 06/2018

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Road Condition Summary Report for Data Collection Vehicle (DCV) Rated Roads

Baltimore - Washington Parkway

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Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
BAWA-0503EZ	52154	RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY	7	AS	0.15	98	NR	98	99	100	99	98	100	100
BAWA-0503FZ	52154	RAMP FROM W/B MD HIGHWAY 450 TO N/B BW PARKWAY SPUR	7	AS	0.06	100	NR	100	100	100	100	100	100	100
BAWA-0504AZ	52155	N/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)	7	AS	0.21	88	NR	88	88	100	88	100	100	98
BAWA-0504BZ	52155	S/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)	7	AS	0.18	97	NR	97	100	100	100	100	100	97
BAWA-0504CZ	52155	RAMP FROM RIVERDALE ROAD (RT. 410) TO N/B BW PARKWAY	7	AS	0.14	99	NR	99	100	100	100	99	100	100
BAWA-0504DZ	52155	RAMP FROM RIVERDALE ROAD (RT. 410) TO S/B BW PARKWAY	7	AS	0.15	100	NR	100	100	100	100	100	100	100
BAWA-0505AAZ	52157	N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB)	7	AS	0.27	87	NR	87	87	95	92	99	98	100
BAWA-0505ABZ	52157	N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB)	7	AS	0.04	84	NR	84	100	100	100	100	100	84
BAWA-0505BAZ	52157	RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY	7	AS	0.19	100	NR	100	100	100	100	100	100	100
BAWA-0505BBZ	52157	RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB) TO N/B BW PARKWAY	7	AS	0.02	99	NR	99	99	100	99	100	100	99
BAWA-0505CZ	52157	S/B BW PARKWAY RAMP TO SOUTHWAY	7	AS	0.15	99	NR	99	100	100	100	100	100	99
BAWA-0505DAZ	52157	RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY	7	AS	0.12	98	NR	98	100	100	100	98	100	100
BAWA-0505DBZ	52157	RAMP FROM SOUTHWAY TO S/B BW PARKWAY	7	AS	0.03	88	NR	88	88	100	88	99	100	99
BAWA-0506AZ	52158	N/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)	7	AS	0.22	8	NR	8	8	98	10	94	100	98
BAWA-0506BZ	52158	S/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)	7	AS	0.26	5	NR	5	5	100	5	74	100	98
BAWA-0506CZ	52158	RAMP FROM POWDER MILL ROAD (ROUTE 212) TO N/B BW PARKWAY	7	AS	0.22	75	NR	75	75	100	75	97	84	94
BAWA-0506DZ	52158	RAMP FROM POWDER MILL ROAD (ROUTE 212) TO S/B BW PARKWAY	7	AS	0.18	28	NR	28	28	100	28	94	95	96
BAWA-0507AZ	52161	N/B BW PARKWAY RAMP TO S/B ROUTE 197	7	AS	0.31	100	NR	100	100	100	100	100	100	100
BAWA-0507CZ	52161	RAMP FROM ROUTE 197 TO N/B BW PARKWAY	7	AS	0.26	94	NR	94	94	100	94	100	100	100

Data Collection Date: 06/2018

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
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Baltimore - Washington Parkway

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BAWA-0507DZ	52161	RAMP FROM ROUTE 197 N/B TO S/B BW PARKWAY	7	AS	0.23	94	NR	94	94	100	94	98	100	99
BAWA-0507EZ	52161	S/B BW PARKWAY RAMP TO ROUTE 197	7	AS	0.21	98	NR	98	100	100	100	100	100	98
BAWA-0507FZ	52161	RAMP FROM ROUTE S/B 197 TO S/B BW PARKWAY	7	AS	0.35	95	NR	95	95	100	95	98	100	100
BAWA-0507GZ	52161	N/B BW PARKWAY RAMP TO N/B ROUTE 197 SPUR	7	AS	0.26	98	NR	98	98	100	98	100	100	100
BAWA-0508AZ	52165	N/B BW PARKWAY RAMP TO E/B ROUTE 198	7	AS	0.51	86	98	78	78	100	78	86	100	99
BAWA-0508BZ	52165	RAMP FROM W/B ROUTE 198 TO N/B BW PARKWAY	7	AS	0.32	0	NR	0	18	100	18	0	94	97
BAWA-0508CAZ	52165	S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB)	7	AS	0.20	81	NR	81	81	100	81	95	100	99
BAWA-0508CBZ	52165	S/B BW PARKWAY RAMP TO HIGHWAY 198 (WB)	7	AS	0.03	90	NR	90	90	100	90	94	100	93
BAWA-0508DZ	52165	RAMP FROM ROUTE 198 TO S/B BW PARKWAY	7	AS	0.21	98	NR	98	98	100	98	99	100	99
BAWA-0508EZ	52165	N/B BW PARKWAY RAMP TO W/B ROUTE 198	7	AS	0.24	42	NR	42	42	99	43	67	97	98
BAWA-0508FZ	52165	RAMP FROM E/B ROUTE 198 TO N/B BW PARKWAY	7	AS	0.38	94	NR	94	94	100	94	97	100	100
BAWA-0509AZ	52169	N/B BW PARKWAY RAMP TO W/B ROUTE 32	7	AS	0.22	43	NR	43	43	100	43	57	100	98
BAWA-0509BZ	52169	RAMP FROM W/B ROUTE 32 TO S/B BW PARKWAY	7	AS	0.26	70	NR	70	70	99	71	74	98	96
BAWA-0509CZ	52169	S/B BW PARKWAY RAMP TO E/B ROUTE 32	7	AS	0.29	0	NR	0	0	99	0	14	100	98
BAWA-0509DZ	52169	RAMP FROM E/B ROUTE 32 TO N/B BW PARKWAY	7	AS	0.24	24	NR	24	24	100	24	31	99	95
BAWA-0509EZ	52169	RAMP FROM W/B ROUTE 32 TO N/B BW PARKWAY	7	AS	0.28	53	NR	53	53	100	53	81	100	99
BAWA-0509FZ	52169	S/B BW PARKWAY RAMP TO W/B ROUTE 32	7	AS	0.43	0	NR	0	0	90	0	0	98	95
BAWA-0509GZ	52169	RAMP FROM E/B ROUTE 32 TO S/B BW PARKWAY	7	AS	0.58	32	68	8	8	100	8	48	96	98
BAWA-0509HZ	52169	N/B BW PARKWAY RAMP TO E/B ROUTE 32	7	AS	0.53	40	99	0	0	98	0	66	100	97

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Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
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Baltimore - Washington Parkway

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BAWA-0510AZ	52171	N/B BW PARKWAY RAMP TO MD HIGHWAY 175	7	AS	0.24	31	NR	31	31	100	31	81	100	99
BAWA-0510BZ	52171	S/B BW PARKWAY RAMP FROM MD HIGHWAY 175	7	AS	0.25	18	NR	18	18	99	19	46	100	97
BAWA-0511AZ	252466	N/B BW PARKWAY RAMP TO NASA	7	AS	0.13	70	NR	70	70	100	70	92	99	99
BAWA-0511BZ	252466	NASA RAMP TO N/B BW PARKWAY	7	AS	0.18	96	NR	96	96	100	96	98	99	99
BAWA-0511CZ	252466	S/B BW PARKWAY RAMP TO NASA	7	AS	0.18	76	NR	76	76	100	76	90	100	99
BAWA-0511DZ	252466	NASA RAMP TO S/B BW PARKWAY	7	AS	0.20	88	NR	88	88	100	88	95	99	98

Data Collection Date: 06/2018

Section 4
Park Route Location Maps

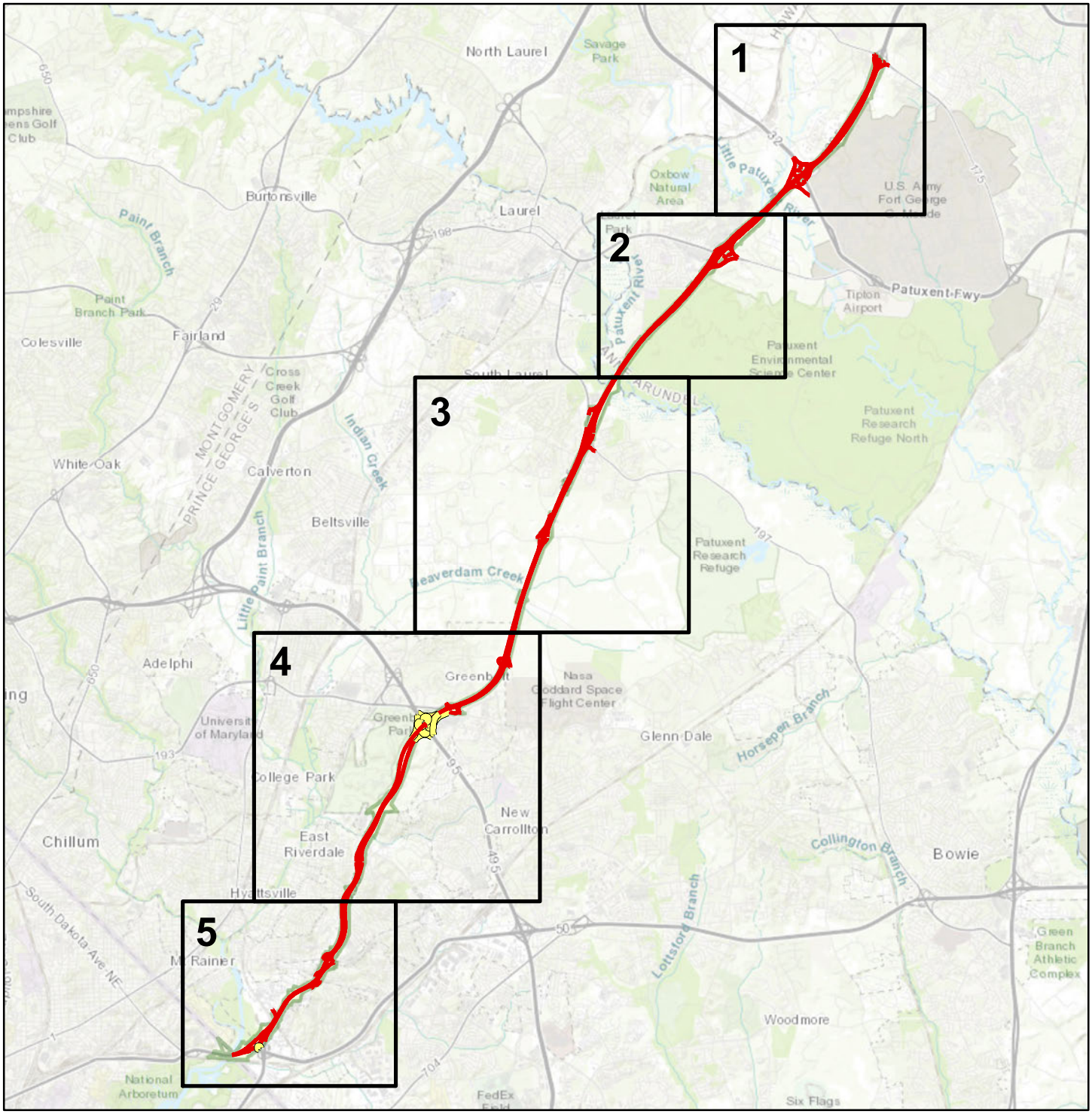
Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

Baltimore - Washington Parkway

ROUTE LOCATION MAP

Key Map



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

NPS Collected Routes

Non-NPS Collected Routes

Miles

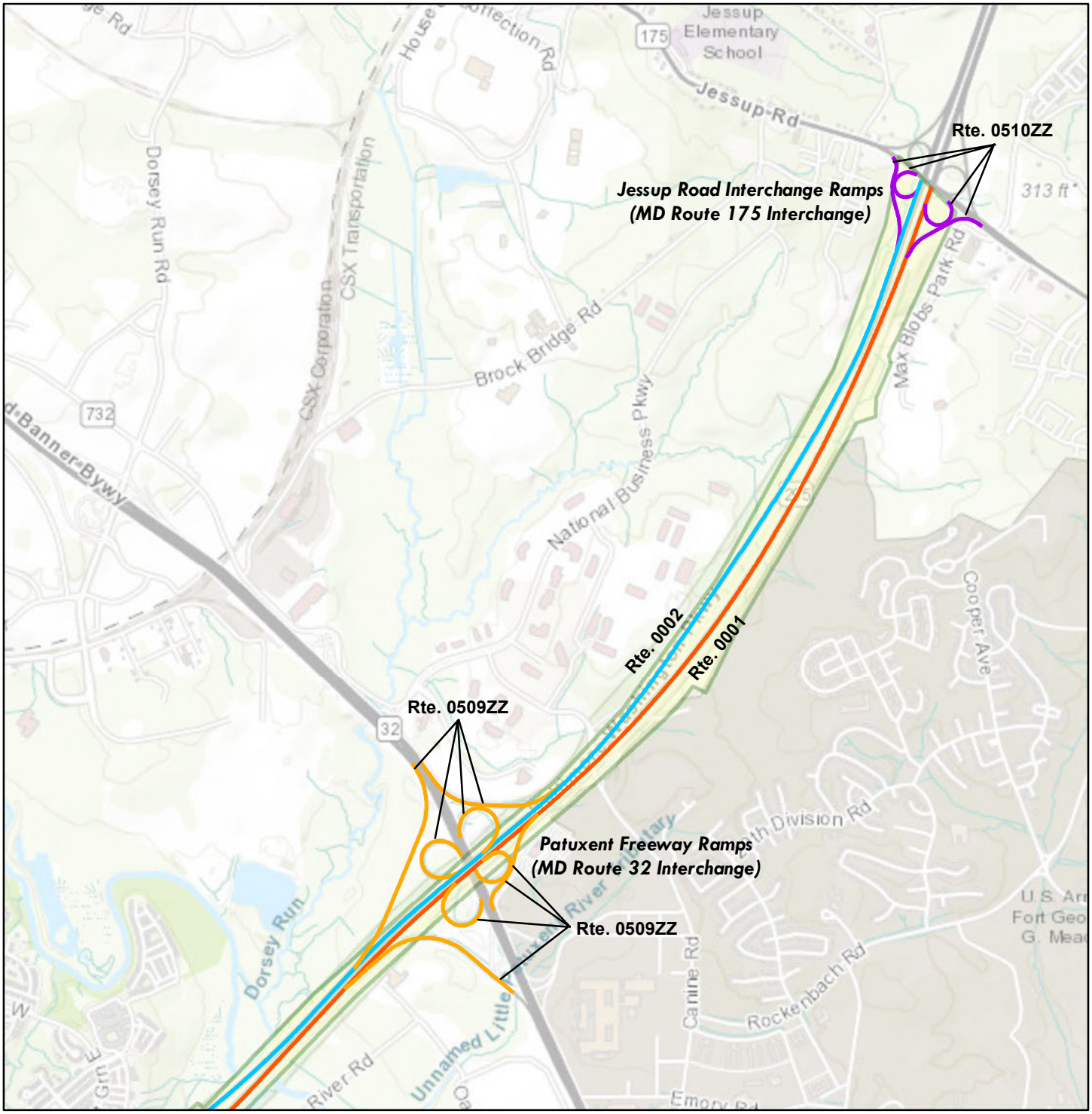
0 5 10

N

Baltimore - Washington Parkway

ROUTE LOCATION MAP

MAP 1



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

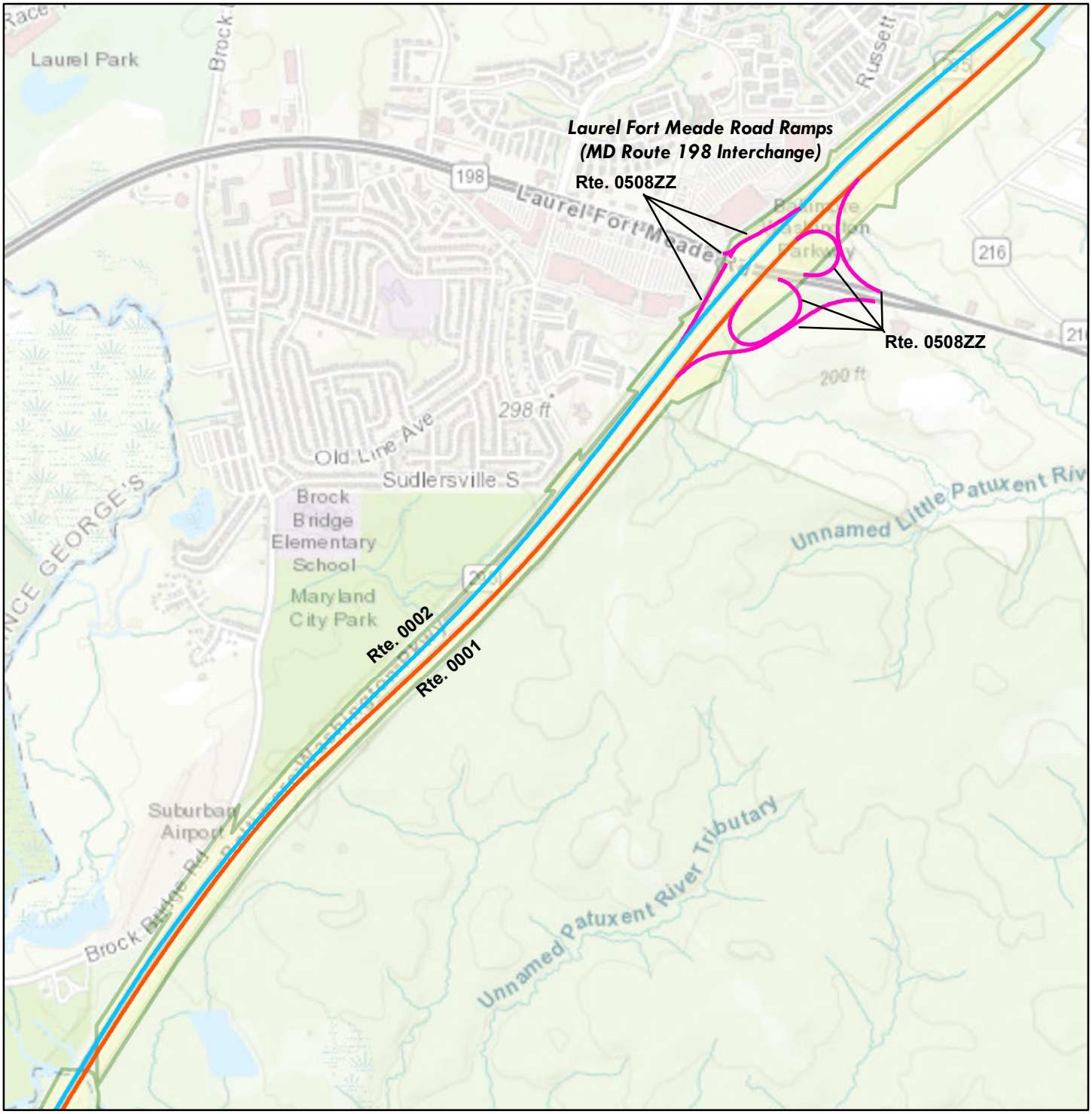
0 1 2

N

Baltimore - Washington Parkway

ROUTE LOCATION MAP

MAP 2



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

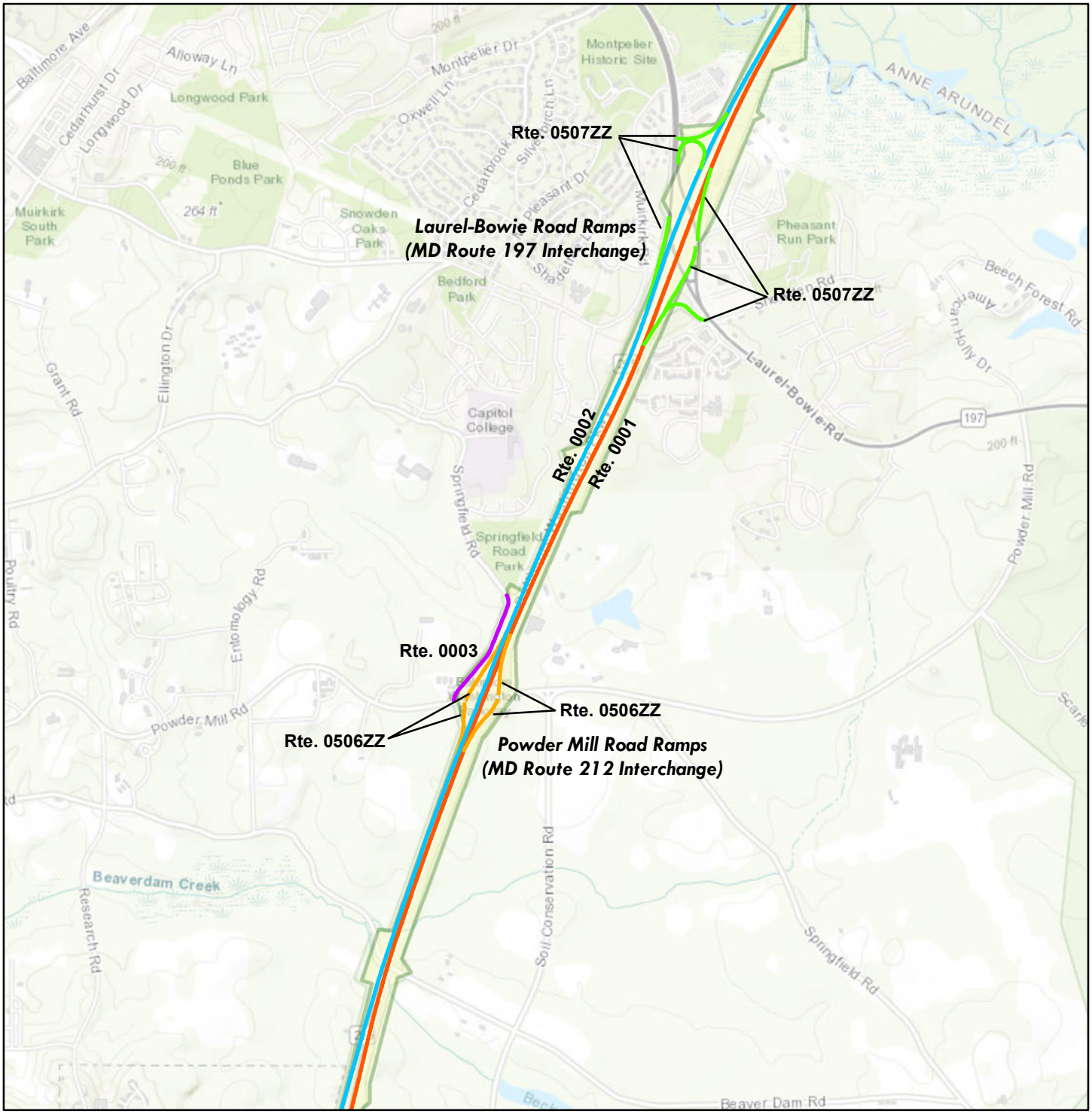
0 1 2

N

Baltimore - Washington Parkway

ROUTE LOCATION MAP

MAP 3



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

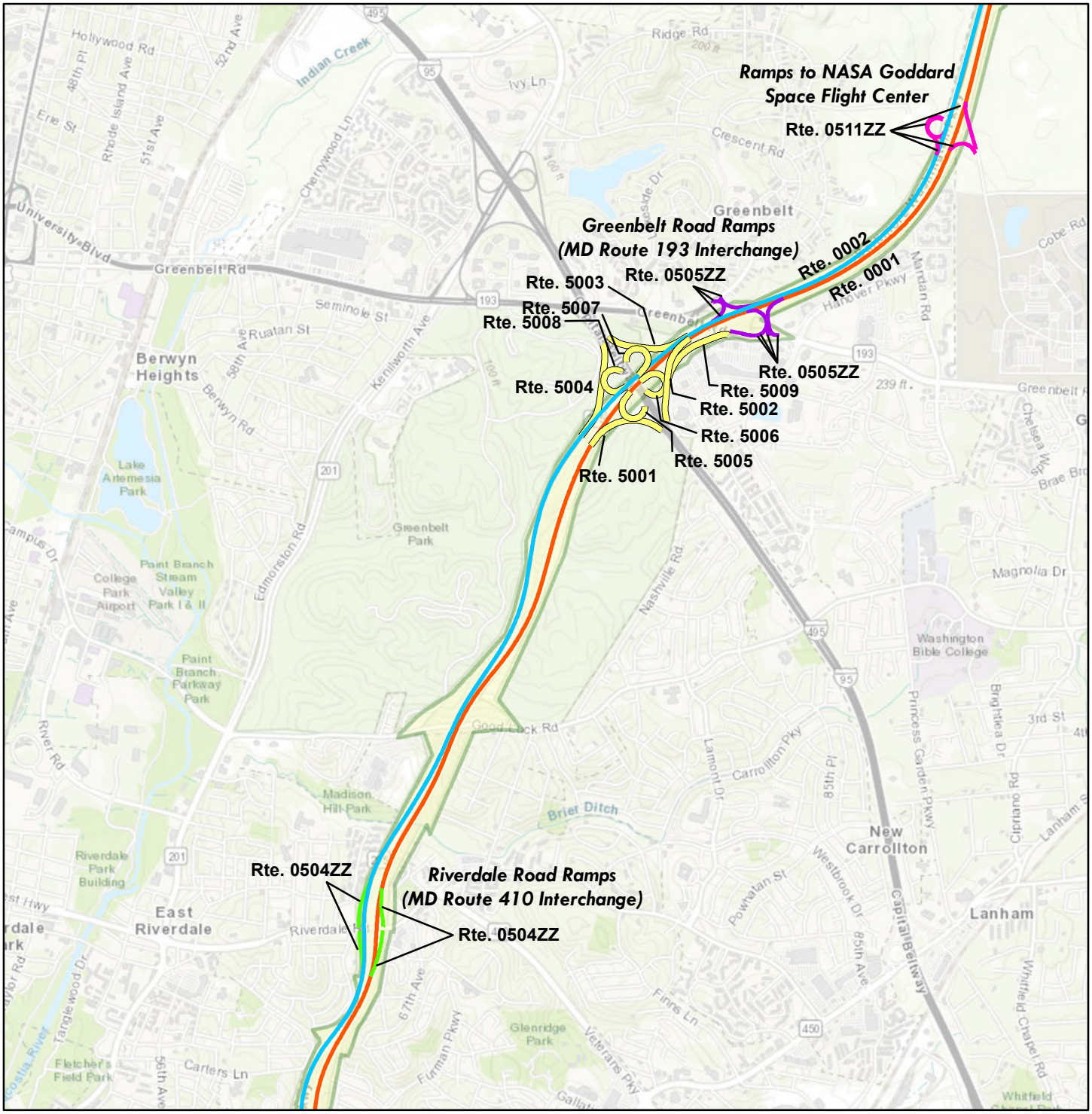
0 1 2

N

Baltimore - Washington Parkway

ROUTE LOCATION MAP

MAP 4



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

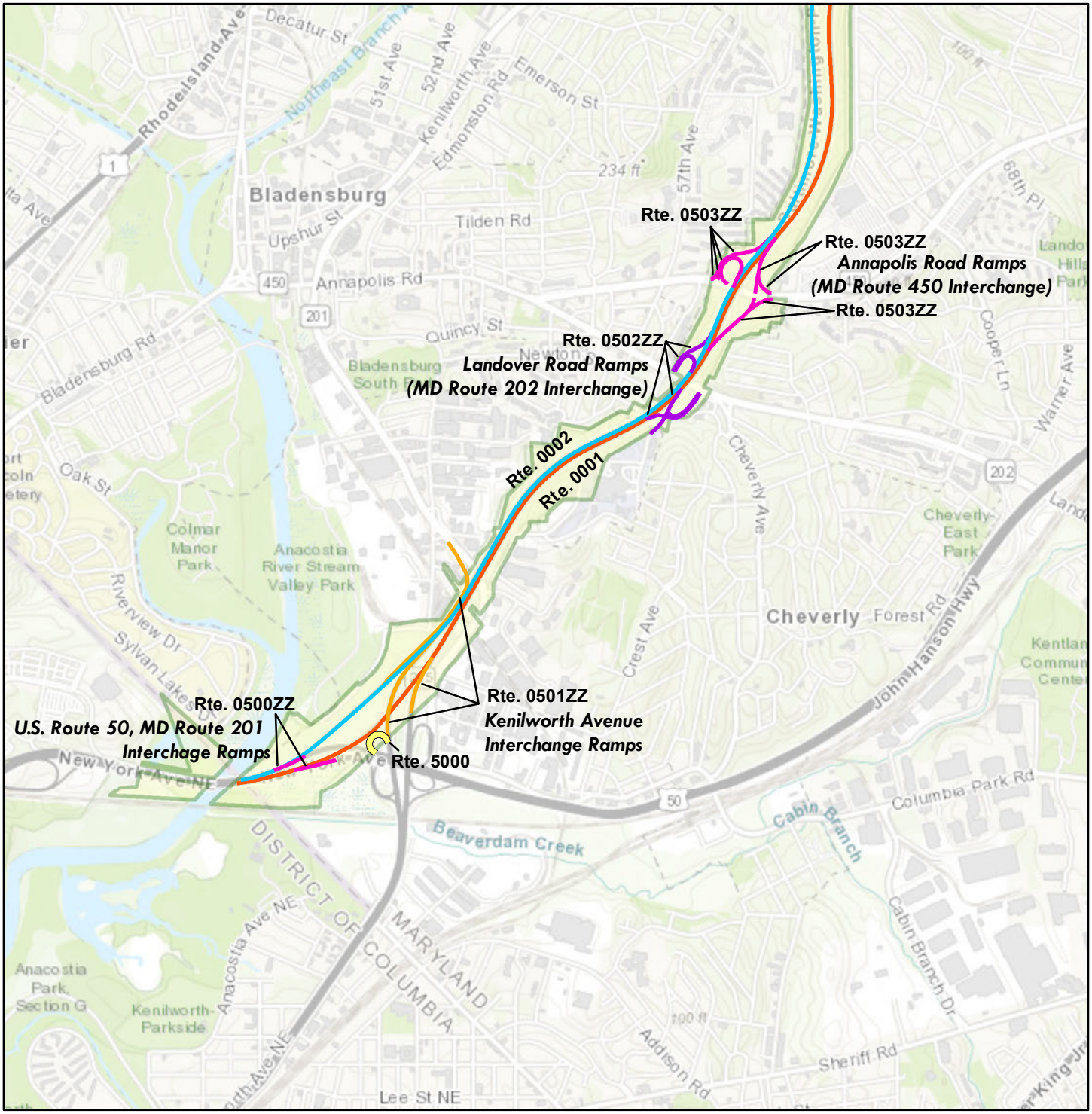
0 1 2

N

Baltimore - Washington Parkway

ROUTE LOCATION MAP

MAP 5



Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

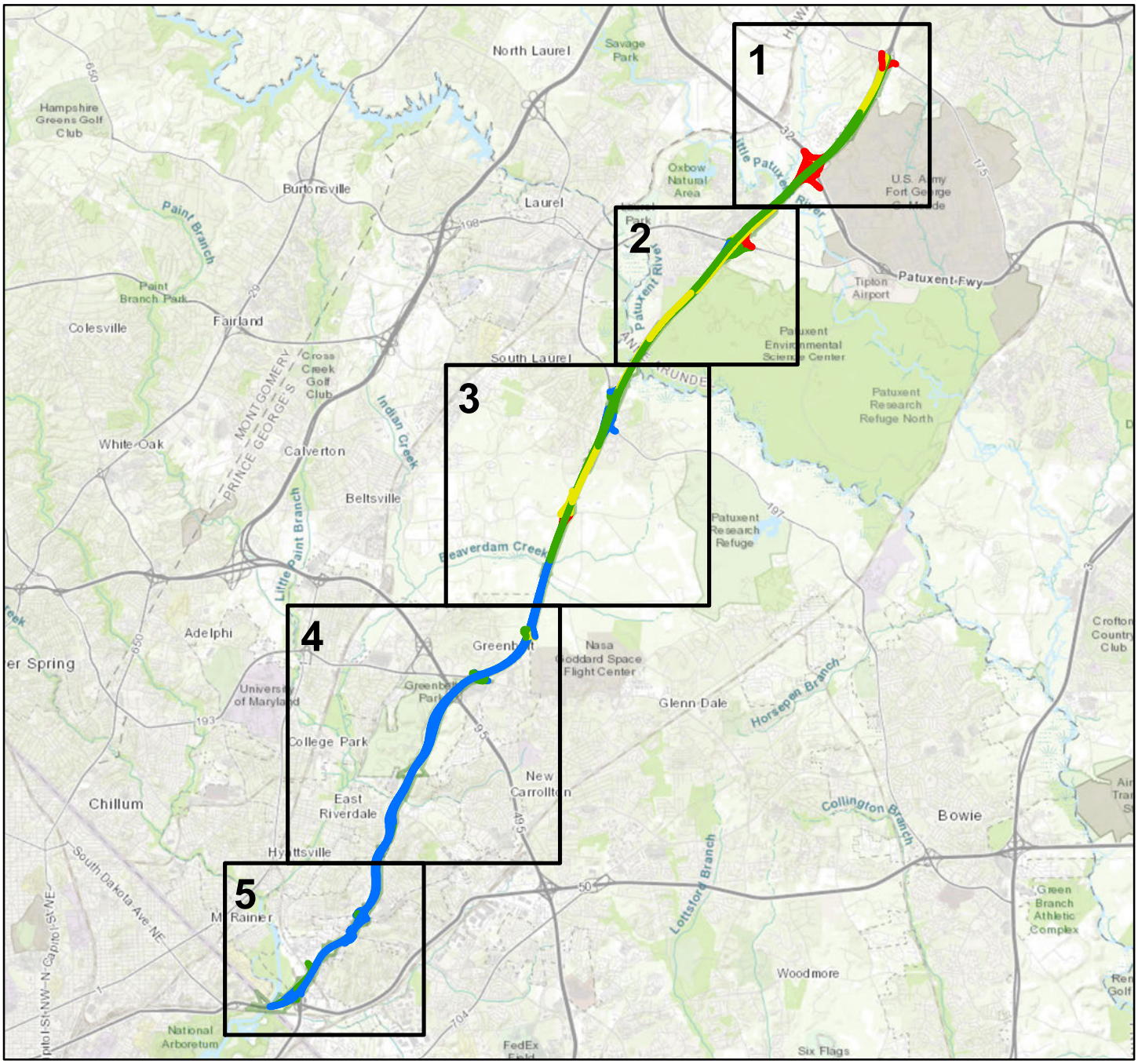
Miles

0 1 2

N

Batimore - Washington Parkway

ROUTE CONDITION MAP
PCR - MILE BY MILE
Key Map



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

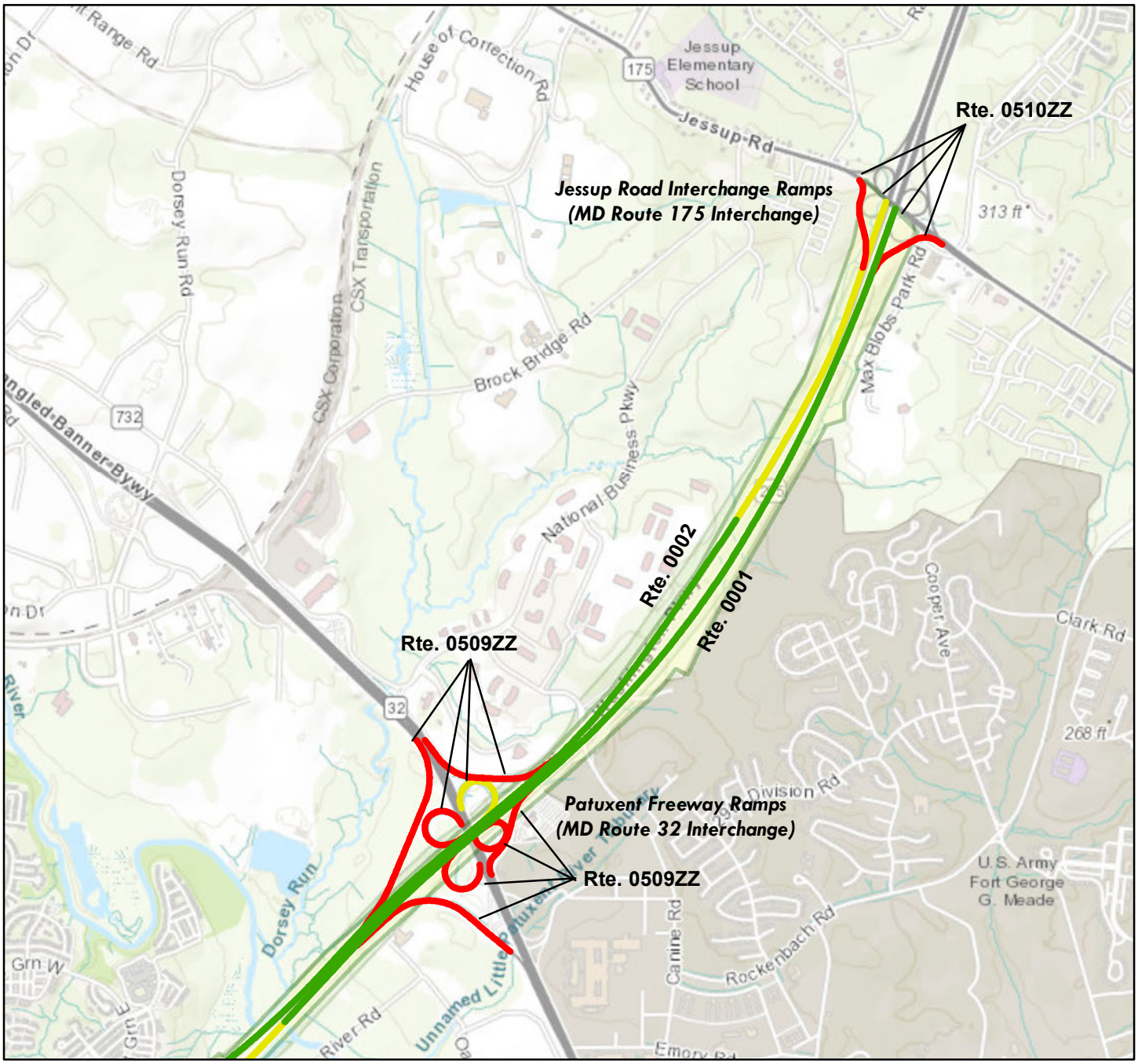
Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 5 10

N

Baltimore - Washington Parkway

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

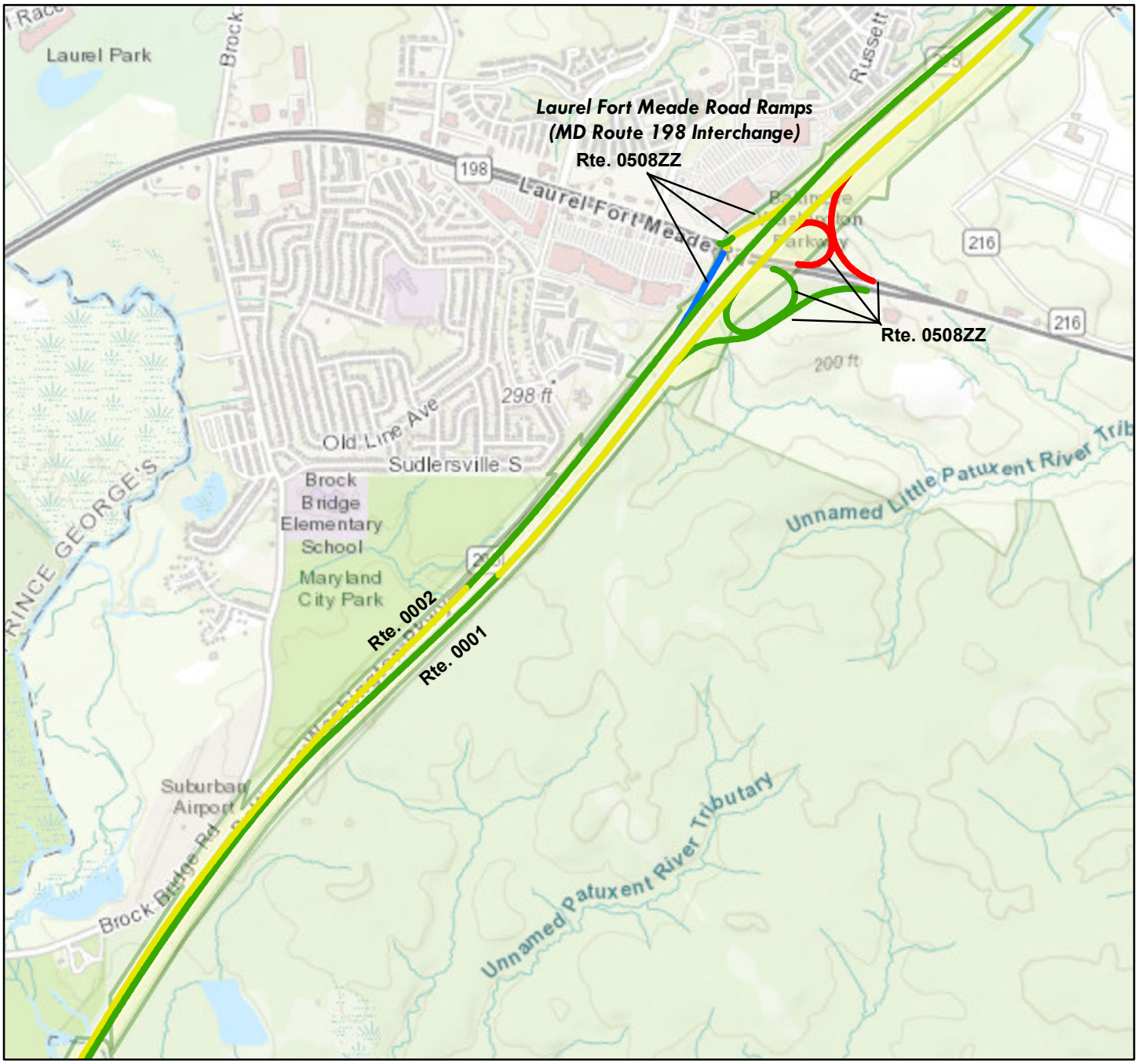
Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 1 2

N

Baltimore - Washington Parkway

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

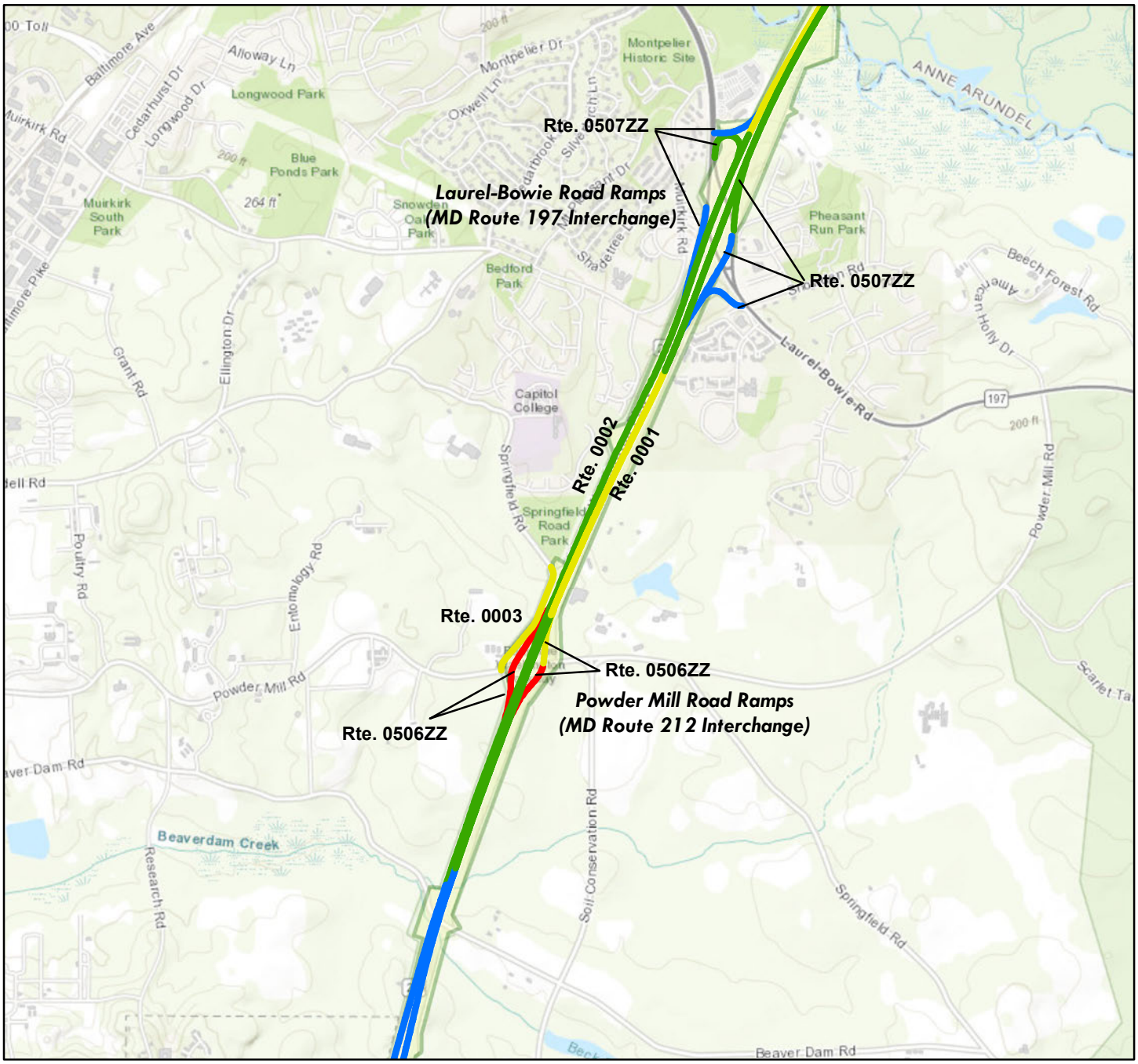
Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 1 2

N

Baltimore - Washington Parkway

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 3



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

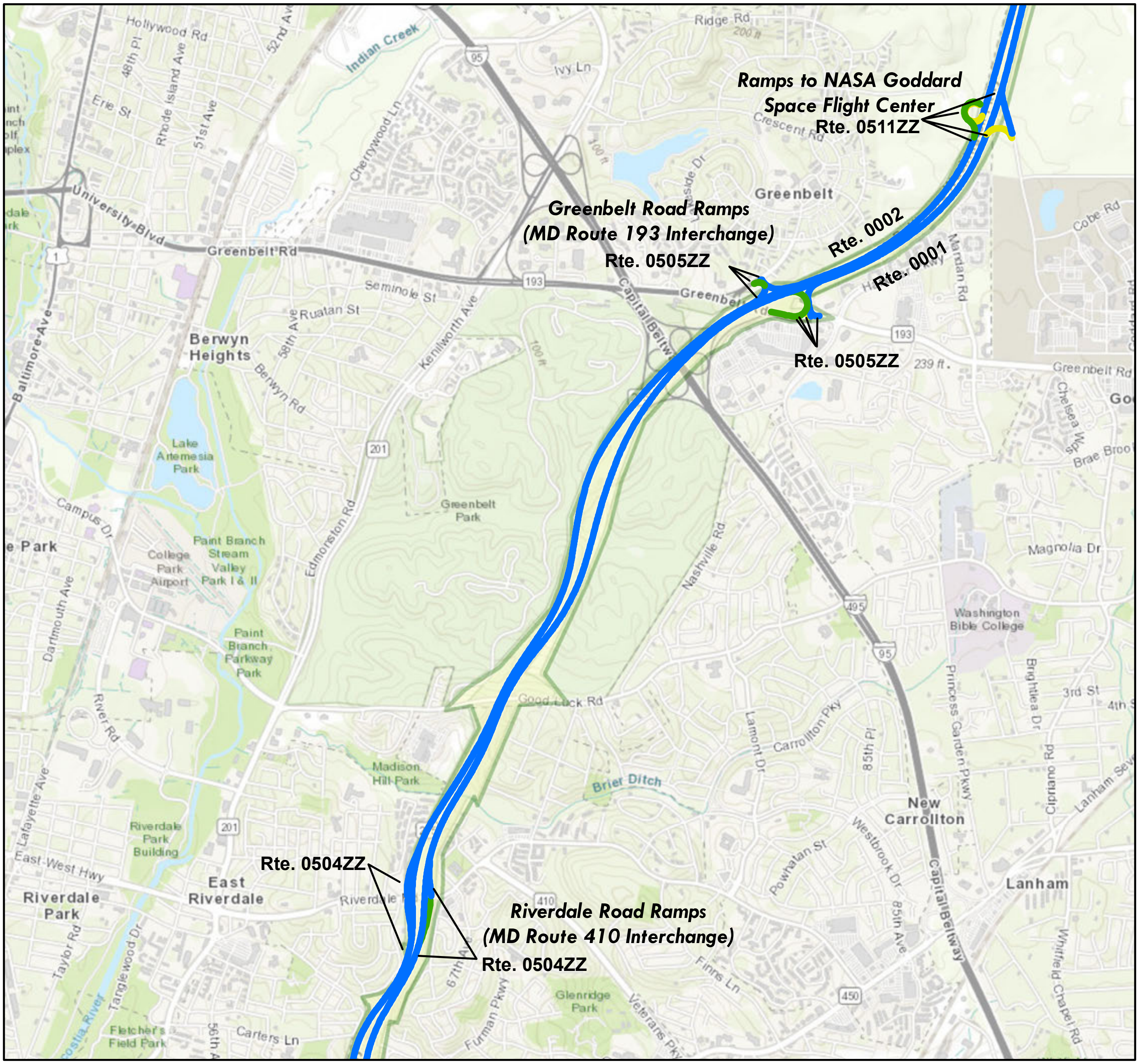
Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 1 2

N

Baltimore - Washington Parkway

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 4



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

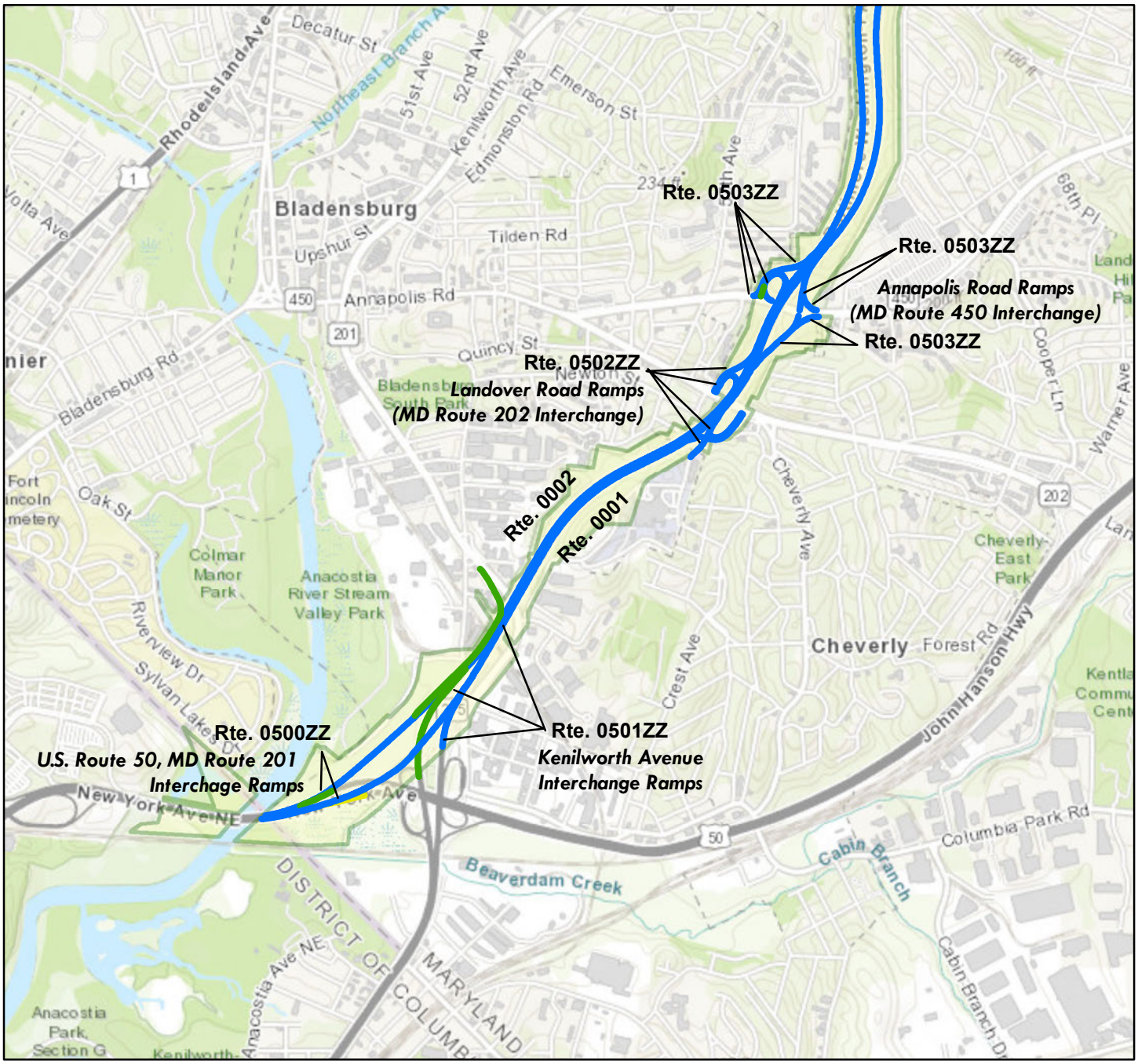
Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 1 2

N

Baltimore - Washington Parkway

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 5



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 1 2

N

Section 5
Paved Road Condition Rating Sheets

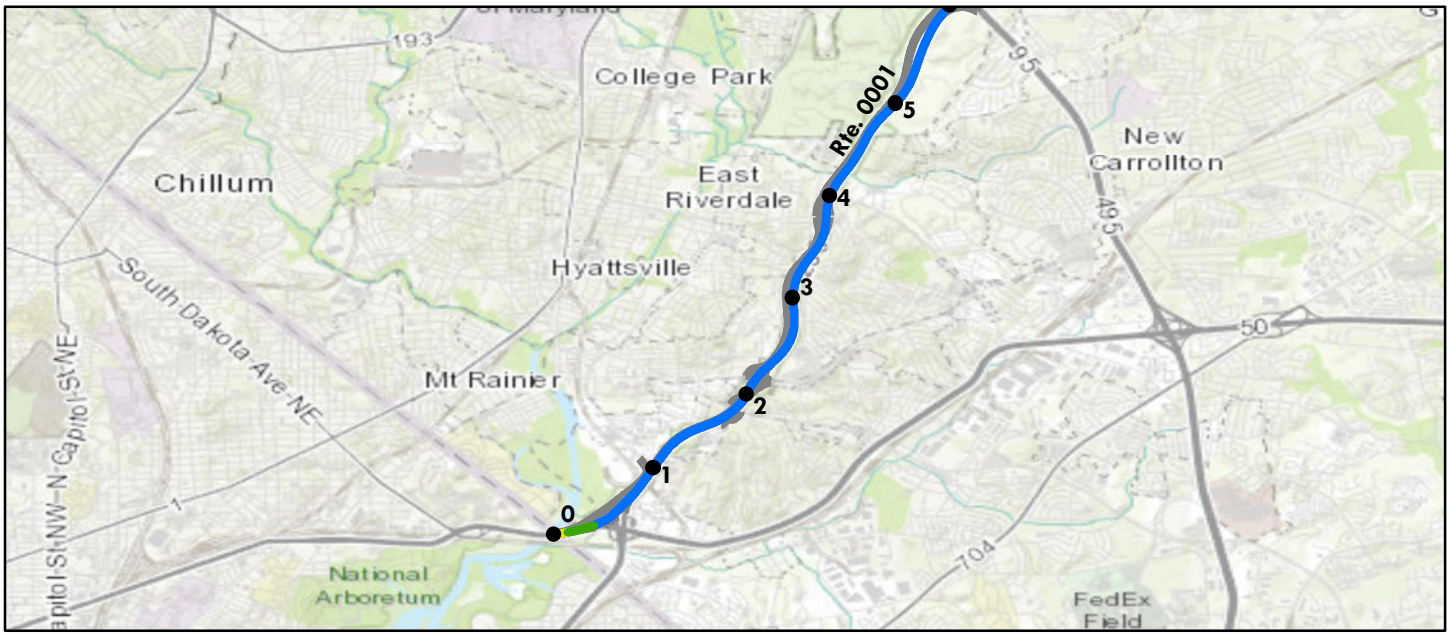
Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

Baltimore - Washington Parkway

ROUTE 0001: BALTIMORE-WASHINGTON PARKWAY (NB)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 18.92	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	95	99	99	99	99
Surface Condition Rating (SCR)	89	91	98	98	99	99
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	89	91	99	100	99	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	89	91	99	100	99	100
Transverse Cracking Index	93	99	98	98	100	99
Patching Index	100	100	100	100	100	100
Rutting Index	98	99	99	99	100	100
International Roughness Index (IRI)	77	69	57	58	67	51
Lane & Width Information						
Number of Lanes	2	2	3	2	2	2
Paved Width (ft)	29	32.9	40.5	26.5	27.3	27.9
Lane Width (ft)	10.9	10.9	10.9	11	10.9	11

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0001: BALTIMORE-WASHINGTON PARKWAY (NB)

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

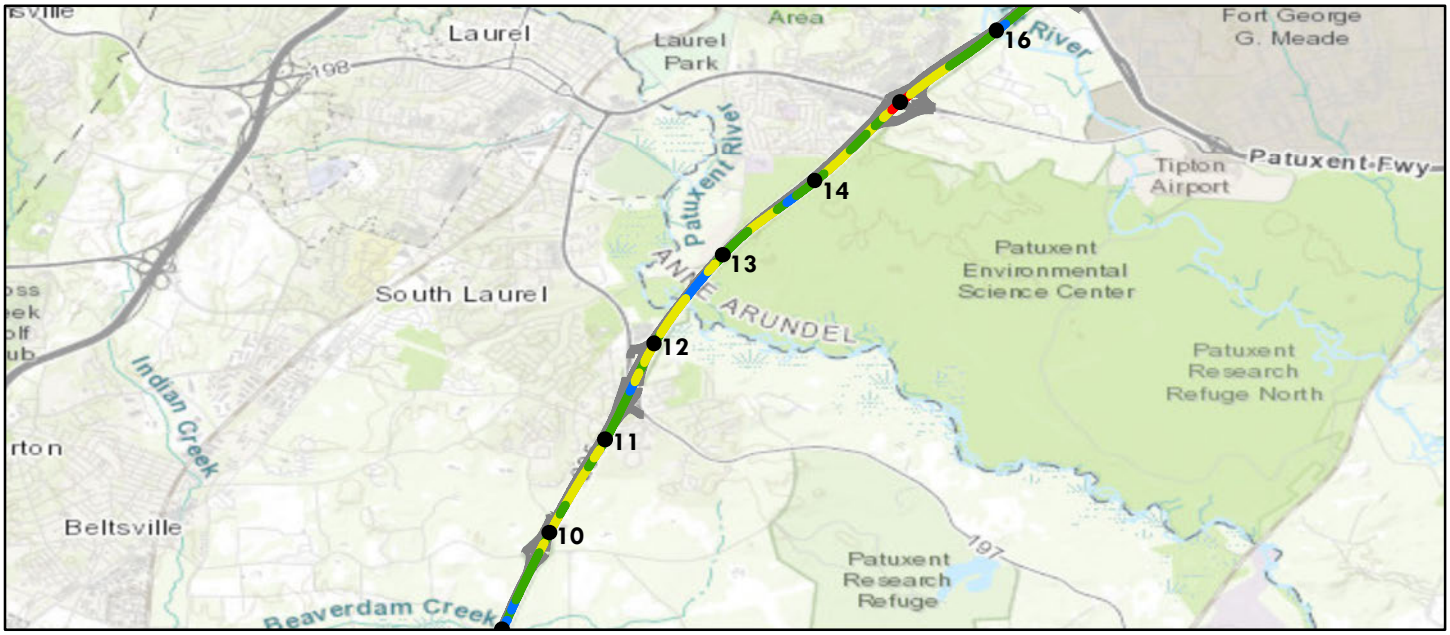
Inspection Date: 6/9/2018	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 18.92	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	99	99	100	98	92
Surface Condition Rating (SCR)	89	99	99	100	97	86
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	89	100	99	100	97	86
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	89	100	99	100	97	86
Transverse Cracking Index	93	99	100	100	98	88
Patching Index	100	100	100	100	100	100
Rutting Index	98	100	100	100	98	94
International Roughness Index (IRI)	77	59	66	47	63	92
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	29	28.2	27.8	27.6	27.5	28.2
Lane Width (ft)	10.9	11	10.8	10.8	11	10.8

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0001: BALTIMORE-WASHINGTON PARKWAY (NB)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

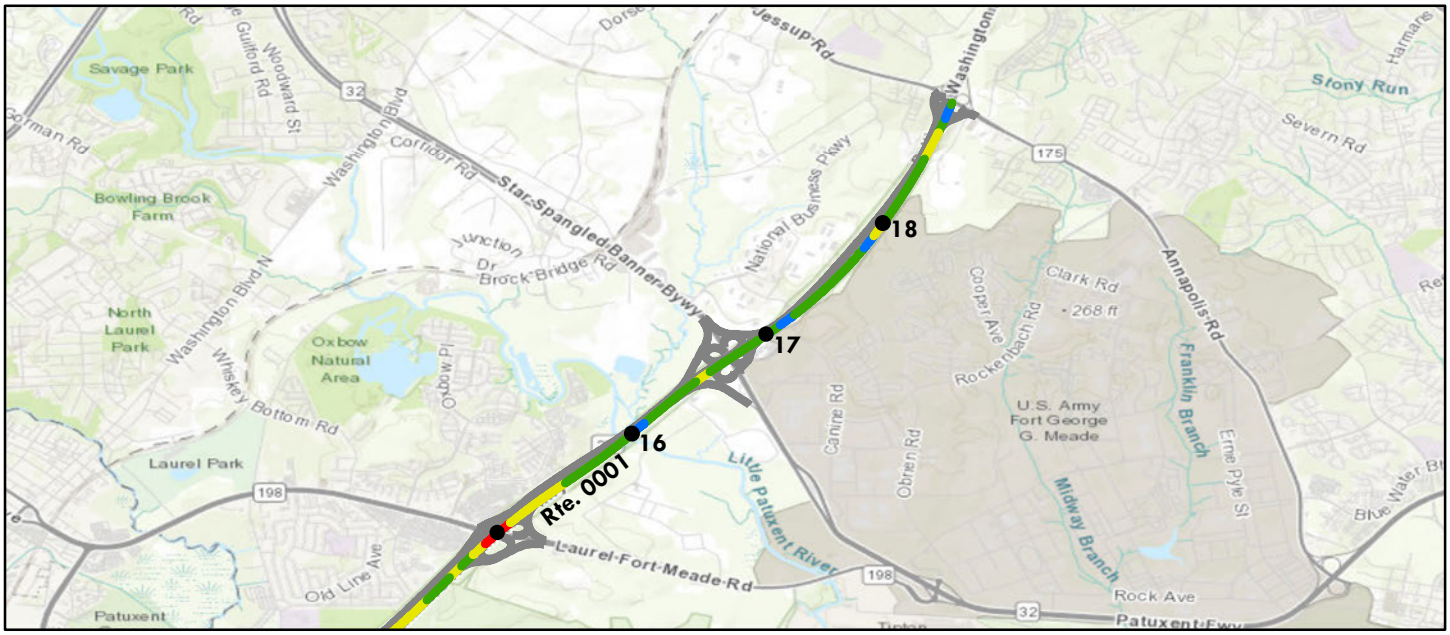
Inspection Date: 6/9/2018	**Beginning Section MP**	10	11	12	13	14
Paved Length (Miles): 18.92	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	84	90	86	91	78
Surface Condition Rating (SCR)	89	73	83	77	85	64
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	89	73	95	77	85	64
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	89	73	95	77	85	64
Transverse Cracking Index	93	81	83	91	87	88
Patching Index	100	100	98	99	99	99
Rutting Index	98	97	99	98	97	99
International Roughness Index (IRI)	77	77	82	113	104	86
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	29	32.1	30.1	28.3	27.9	27.8
Lane Width (ft)	10.9	10.9	11.1	11.1	10.9	10.8

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0001: BALTIMORE-WASHINGTON PARKWAY (NB)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

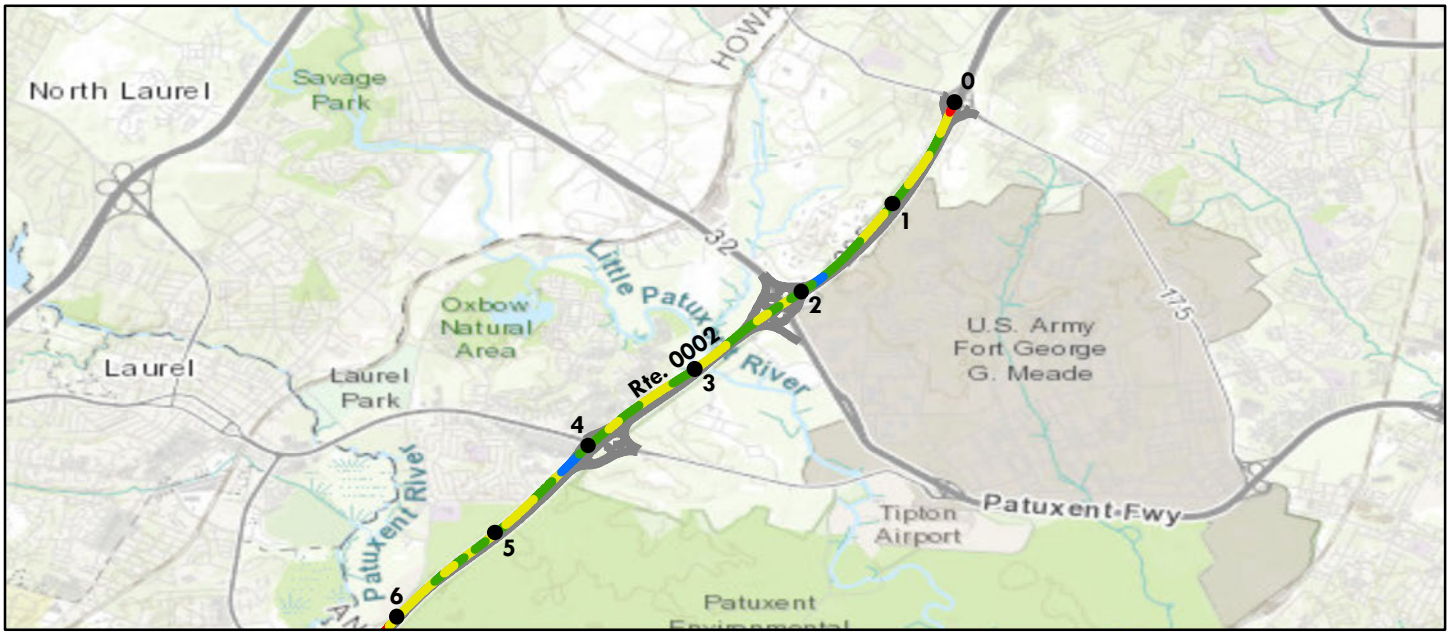
Inspection Date: 6/9/2018	**Beginning Section MP**	15	16	17	18	
Paved Length (Miles): 18.92	**Section Length (MI)**	1	1	1	0.92	
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	84	92	90	91	
Surface Condition Rating (SCR)	89	74	87	84	85	
Roughness Condition Index (RCI)	100	100	100	100	100	
Distress Index Values						
Structural Crack Index	89	74	91	84	85	
Alligator Crack Index	100	100	100	100	100	
Longitudinal Crack Index	89	74	91	84	85	
Transverse Cracking Index	93	85	87	93	87	
Patching Index	100	100	100	98	99	
Rutting Index	98	94	94	98	98	
International Roughness Index (IRI)	77	104	87	79	100	
Lane & Width Information						
Number of Lanes	2	2	2	2	2	
Paved Width (ft)	29	28.1	26.7	26.9	28.5	
Lane Width (ft)	10.9	11.1	10.8	10.9	10.8	

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0002: BALTIMORE-WASHINGTON PARKWAY (SB)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

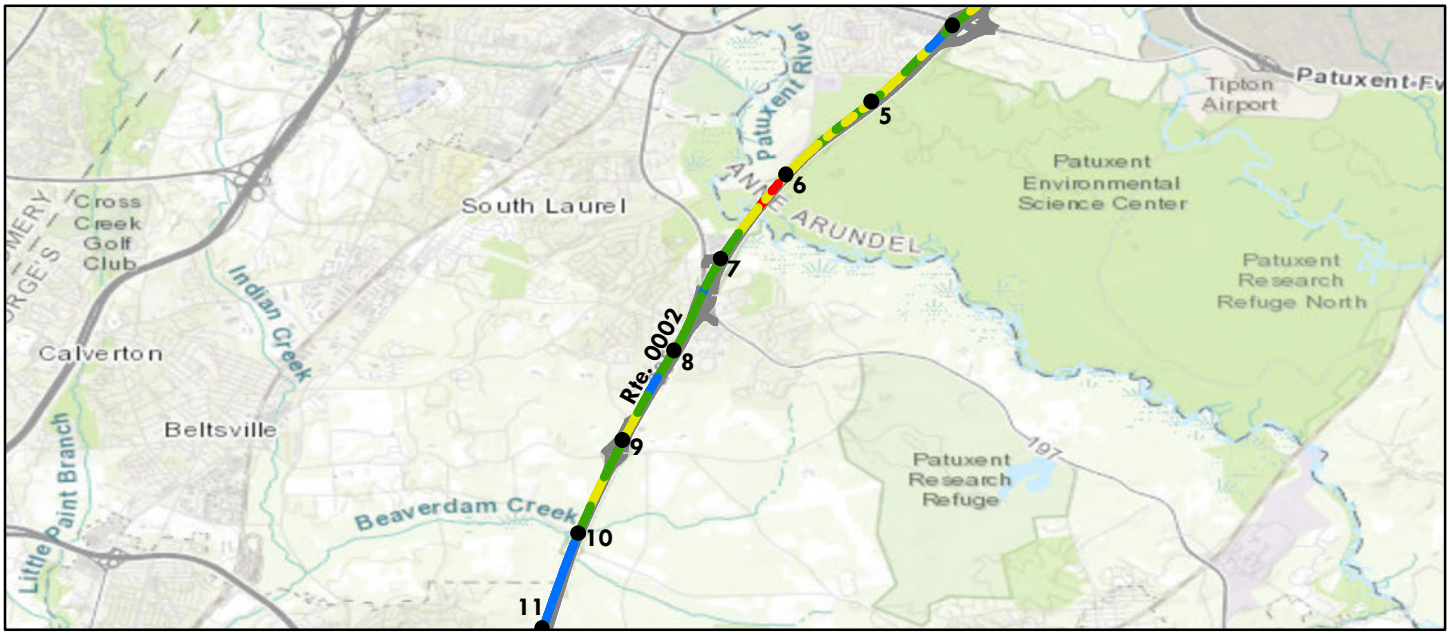
Inspection Date: 6/9/2018	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 18.89	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	83	88	88	90	87
Surface Condition Rating (SCR)	88	72	80	80	83	78
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	88	72	80	80	83	78
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	88	72	80	80	83	78
Transverse Cracking Index	91	76	87	82	83	87
Patching Index	100	100	100	100	100	99
Rutting Index	99	97	97	94	98	98
International Roughness Index (IRI)	78	106	79	95	74	97
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	29.2	30.5	27.9	28.5	27.4	28.2
Lane Width (ft)	11	11	10.9	11.1	10.9	11.1

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0002: BALTIMORE-WASHINGTON PARKWAY (SB)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

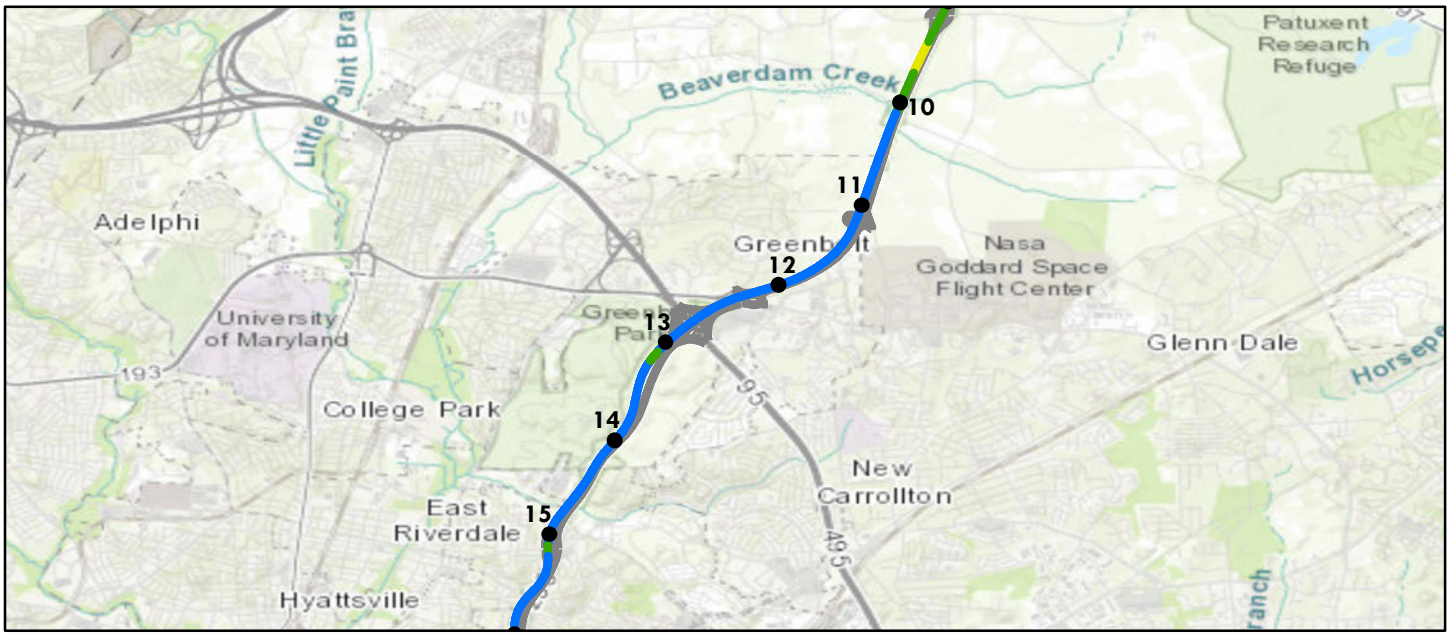
Inspection Date: 6/9/2018	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 18.89	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	80	76	92	90	86
Surface Condition Rating (SCR)	88	67	62	87	84	77
Roughness Condition Index (RCI)	100	100	97	100	100	100
Distress Index Values						
Structural Crack Index	88	67	62	97	84	77
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	88	67	62	97	84	77
Transverse Cracking Index	91	87	89	87	85	85
Patching Index	100	99	99	98	100	100
Rutting Index	99	99	97	99	99	99
International Roughness Index (IRI)	78	90	121	88	90	86
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	29.2	27.9	27.7	28.3	28.9	28.6
Lane Width (ft)	11	10.9	11	10.6	10.8	11

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0002: BALTIMORE-WASHINGTON PARKWAY (SB)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

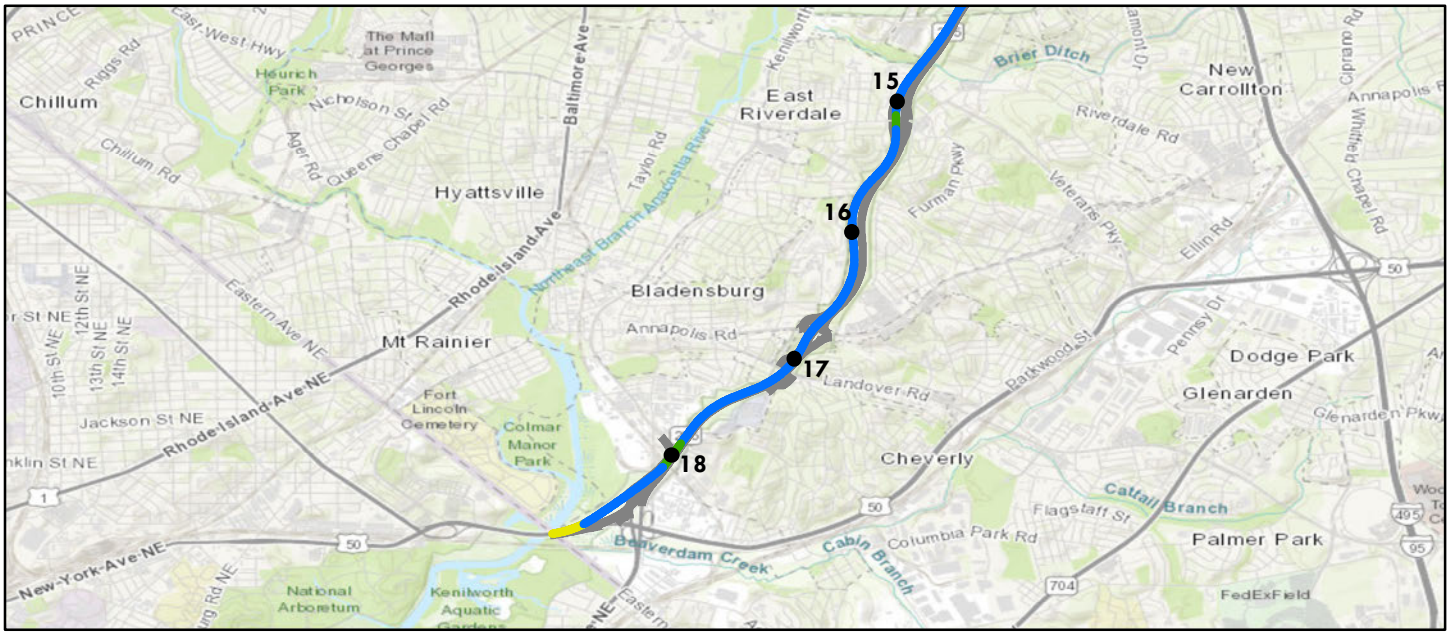
Inspection Date: 6/9/2018	**Beginning Section MP**	10	11	12	13	14
Paved Length (Miles): 18.89	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	99	100	99	99	99
Surface Condition Rating (SCR)	88	98	100	99	98	99
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	88	98	100	100	99	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	88	98	100	100	99	100
Transverse Cracking Index	91	99	100	99	98	99
Patching Index	100	100	100	100	100	100
Rutting Index	99	100	100	100	99	100
International Roughness Index (IRI)	78	47	50	68	52	51
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	29.2	27.9	26.8	28	26.6	28.5
Lane Width (ft)	11	11.1	11.2	10.9	11.2	11.2

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0002: BALTIMORE-WASHINGTON PARKWAY (SB)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

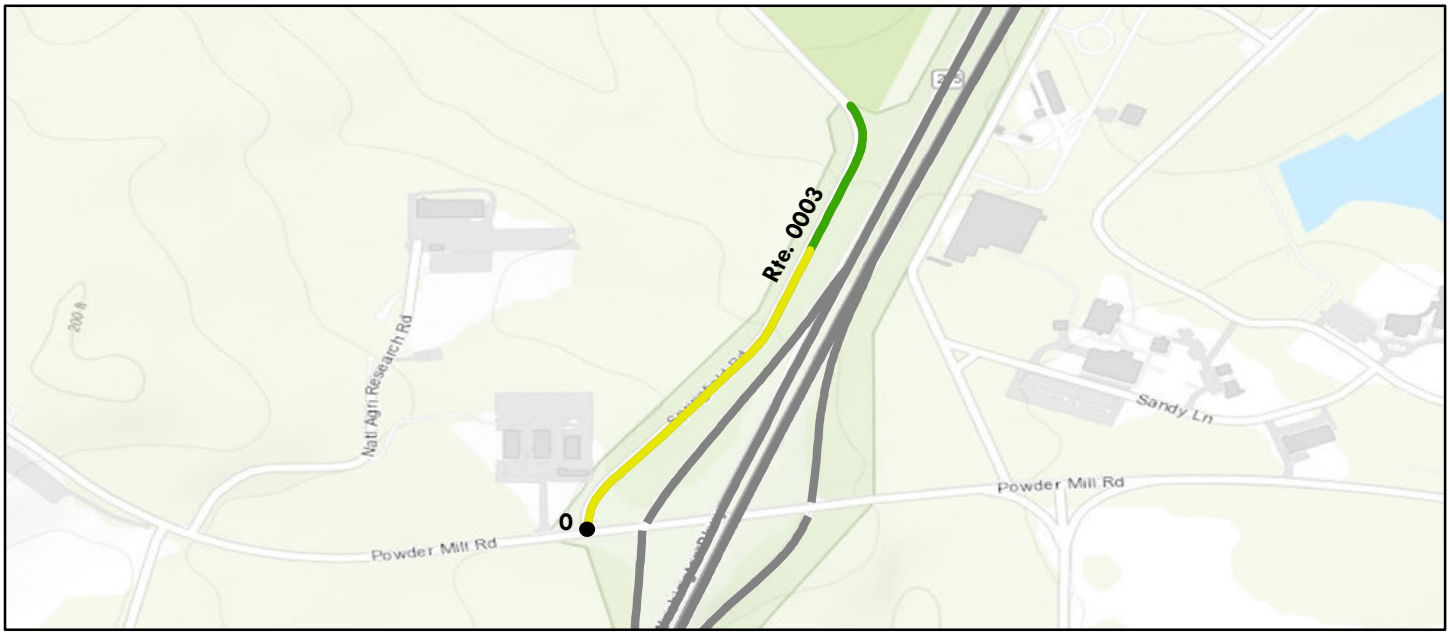
Inspection Date: 6/9/2018	**Beginning Section MP**	15	16	17	18	
Paved Length (Miles): 18.89	**Section Length (MI)**	1	1	1	0.89	
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	99	99	98	96	
Surface Condition Rating (SCR)	88	99	98	97	94	
Roughness Condition Index (RCI)	100	100	100	100	100	
Distress Index Values						
Structural Crack Index	88	100	100	97	94	
Alligator Crack Index	100	100	100	100	100	
Longitudinal Crack Index	88	100	100	97	94	
Transverse Cracking Index	91	99	98	98	99	
Patching Index	100	100	100	100	100	
Rutting Index	99	99	99	99	100	
International Roughness Index (IRI)	78	72	67	55	91	
Lane & Width Information						
Number of Lanes	2	2	2	3	2	
Paved Width (ft)	29.2	27.5	30.5	42	32.5	
Lane Width (ft)	11	10.8	10.9	10.9	11.9	

The 2018 parkway conditions reported for Routes 0001 and 0002 when averaged to 1-mile intervals shown in this report may not reflect the perceived condition of the Parkway at the time of collection. In 2018, the parkway was experiencing localized roughness (potholes) in several areas, however this localized roughness is averaged away when the data is rolled up to larger 1-mile sections. Condition reporting at 0.02-mile intervals is included within the RIP database and can be used to identify the localized roughness locations. Future enhancements are being planned for the next cycle of RIP collection that would help address these types of issues.

Baltimore - Washington Parkway

ROUTE 0003: SPRINGFIELD ROAD WEST

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

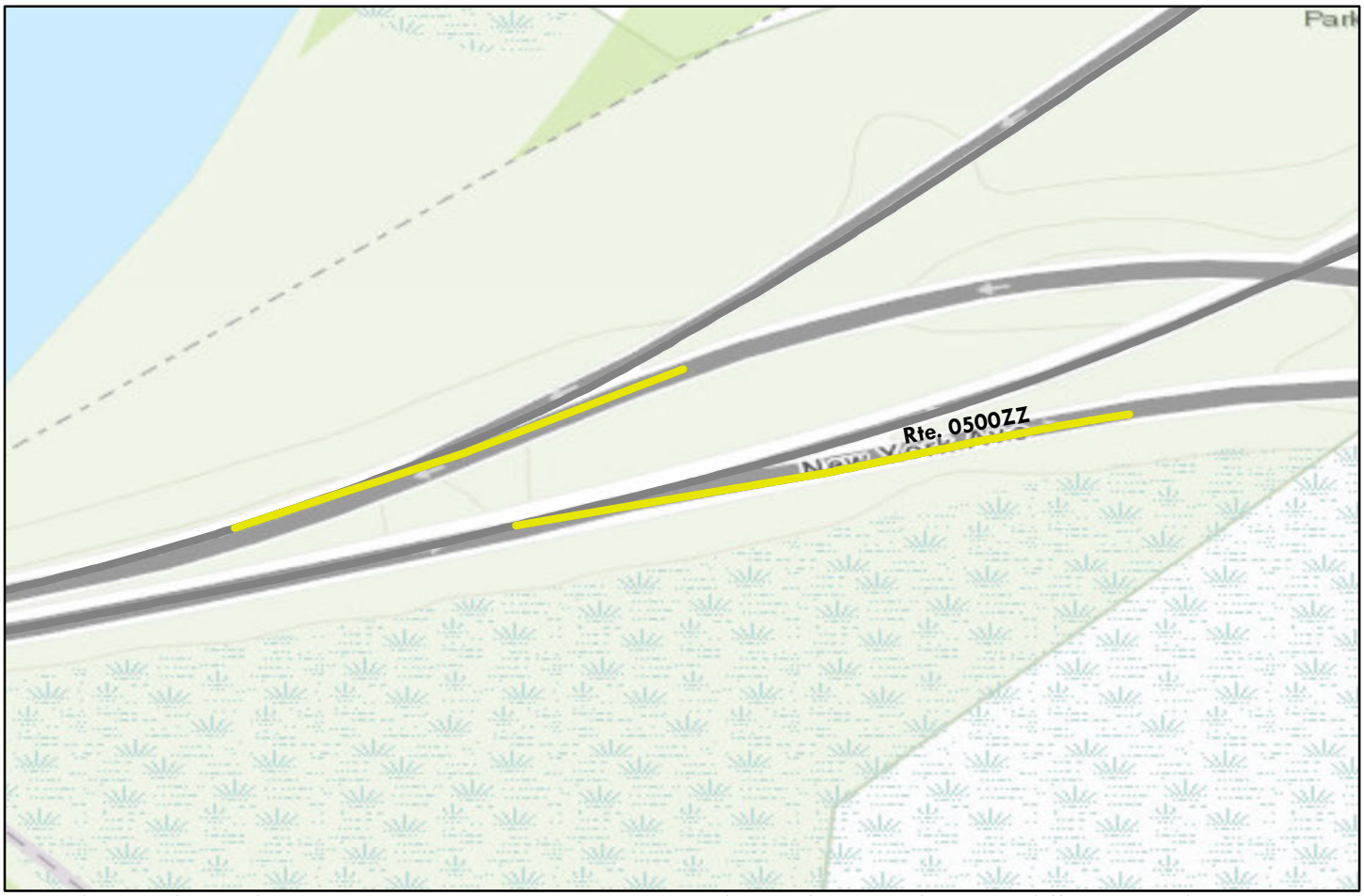
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.44	**Section Length (MI)**	0.44				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	79	79				
Surface Condition Rating (SCR)	79	79				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	79	79				
Alligator Crack Index	99	99				
Longitudinal Crack Index	80	80				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	21.1	21.1				
Lane Width (ft)	10.5	10.5				

Baltimore - Washington Parkway

ROUTE 0500ZZ: U.S. HIGHWAY 50, MD HIGHWAY 201 INTERCHANGE RAMPS

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/9/2018
Paved Length (Miles):	0.19
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	83
Lane & Width Information	
Number of Lanes	2
Paved Width (ft)	34.5
Lane Width (ft)	11.9

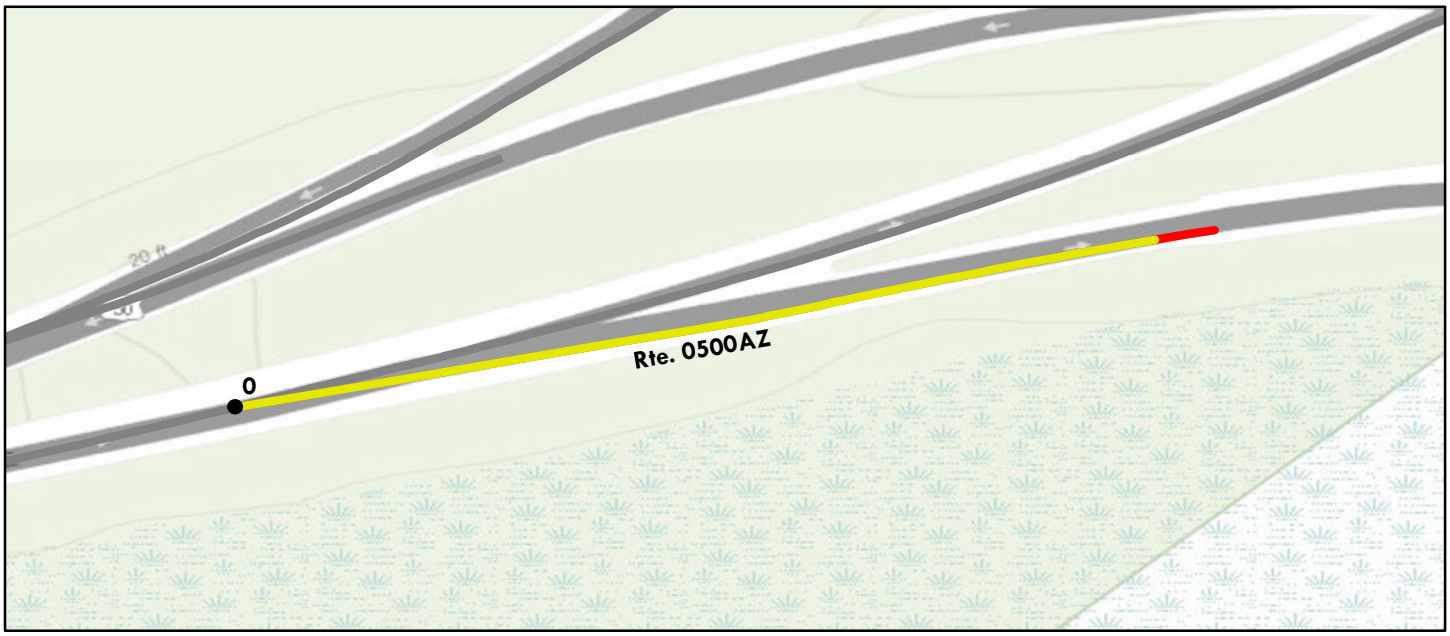
Route Summary

Baltimore - Washington Parkway

ROUTE 0500AZ: RAMP FROM N/B BW PARKWAY TO E/B U.S. HIGHWAY 50

Subcomponent of Route BAWA-0500ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.11	**Section Length (MI)**	0.11				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	75	75				
Surface Condition Rating (SCR)	75	75				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	75	75				
Alligator Crack Index	100	100				
Longitudinal Crack Index	75	75				
Transverse Cracking Index	97	97				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	32.3	32.3				
Lane Width (ft)	12.5	12.5				

Baltimore - Washington Parkway

ROUTE 0500BZ: RAMP FROM W/B U.S. HIGHWAY 50 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0500ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

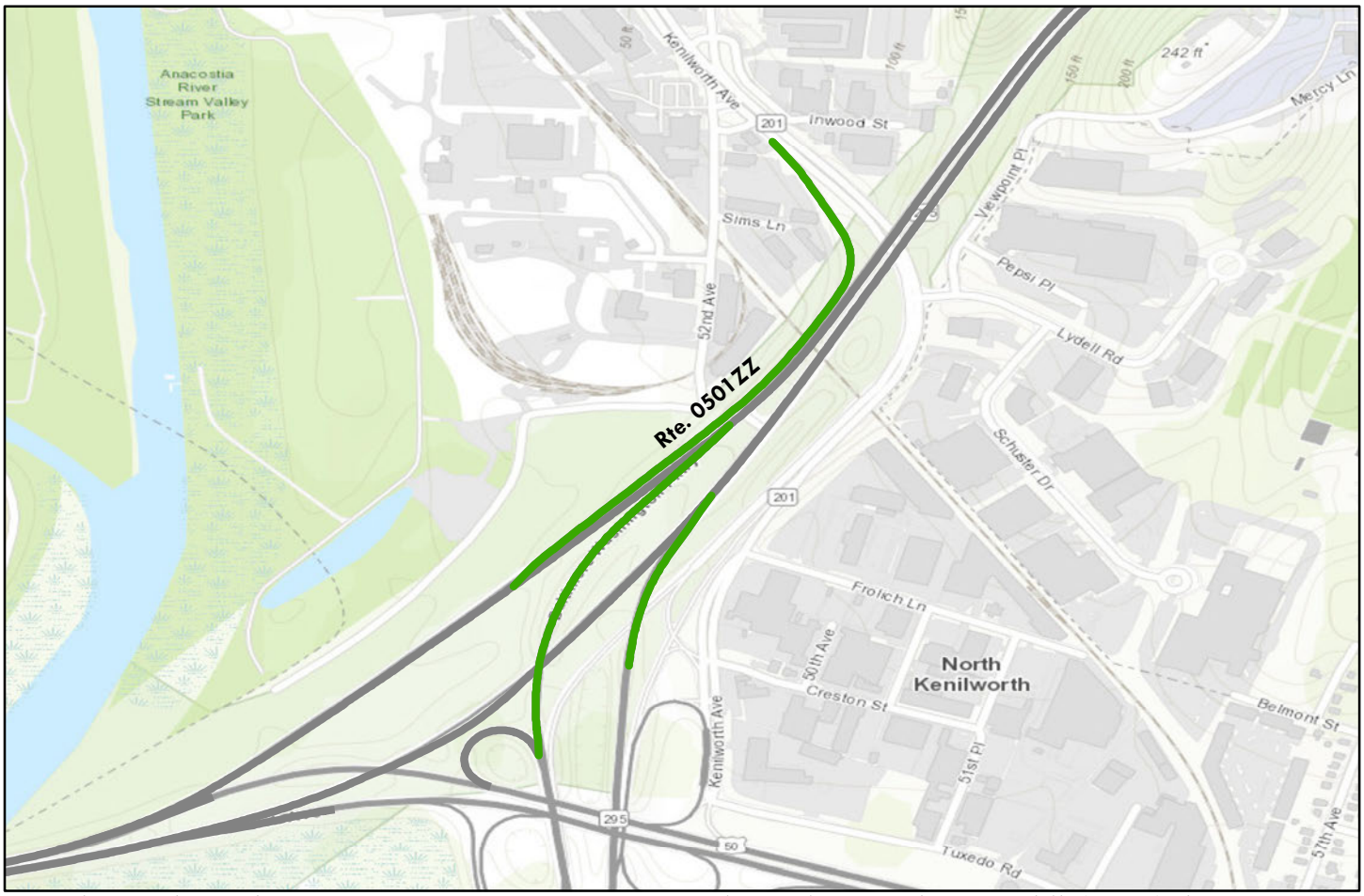
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.08	**Section Length (MI)**	0.08				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	93				
Surface Condition Rating (SCR)	93	93				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	93	93				
Alligator Crack Index	100	100				
Longitudinal Crack Index	93	93				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	37.4	37.4				
Lane Width (ft)	11.2	11.2				

Baltimore - Washington Parkway

ROUTE 0501ZZ: KENILWORTH AVENUE INTERCHANGE RAMPS

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

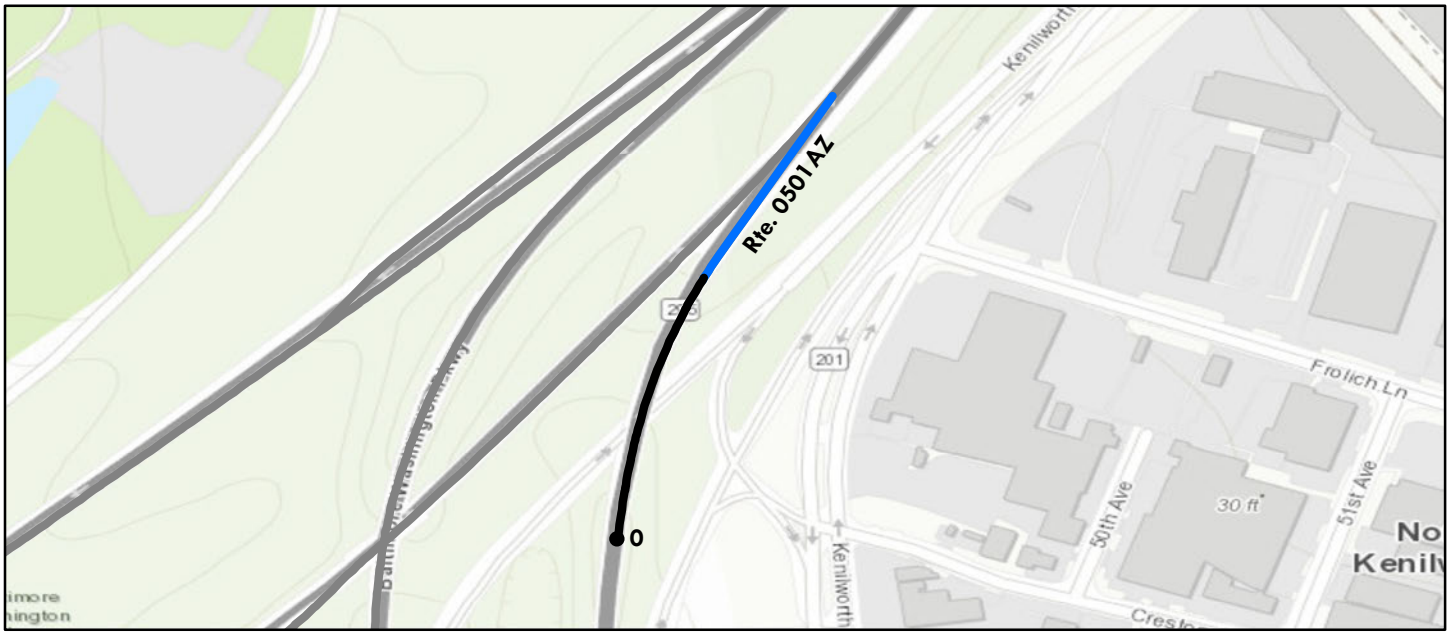
Inspection Date:	6/9/2018
Paved Length (Miles):	1.01
Surface Type:	ASPHALT
	Route Summary
Roadway Condition Information	
Pavement Condition Rating (PCR)	92
Lane & Width Information	
Number of Lanes	2
Paved Width (ft)	24
Lane Width (ft)	12.9

Baltimore - Washington Parkway

ROUTE 0501AZ: RAMP FROM N/B KENILWORTH AVENUE TO N/B BW PARKWAY

Subcomponent of Route BAWA-0501ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

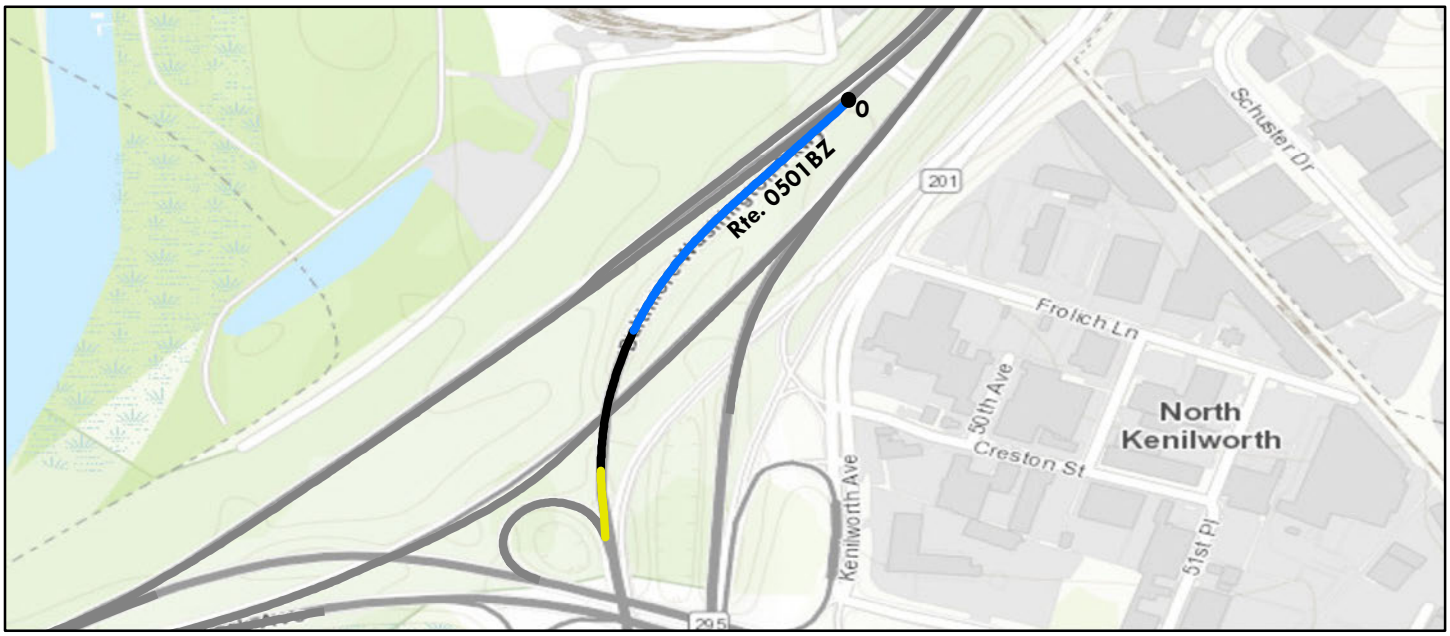
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.16	**Section Length (MI)**	0.16				
Surface Type: CONCRETE	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	31.3	31.3				
Lane Width (ft)	12.3	12.3				

Baltimore - Washington Parkway

ROUTE 0501BZ: BW PARKWAY S/B RAMP TO S/B 295

Subcomponent of Route BAWA-0501ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

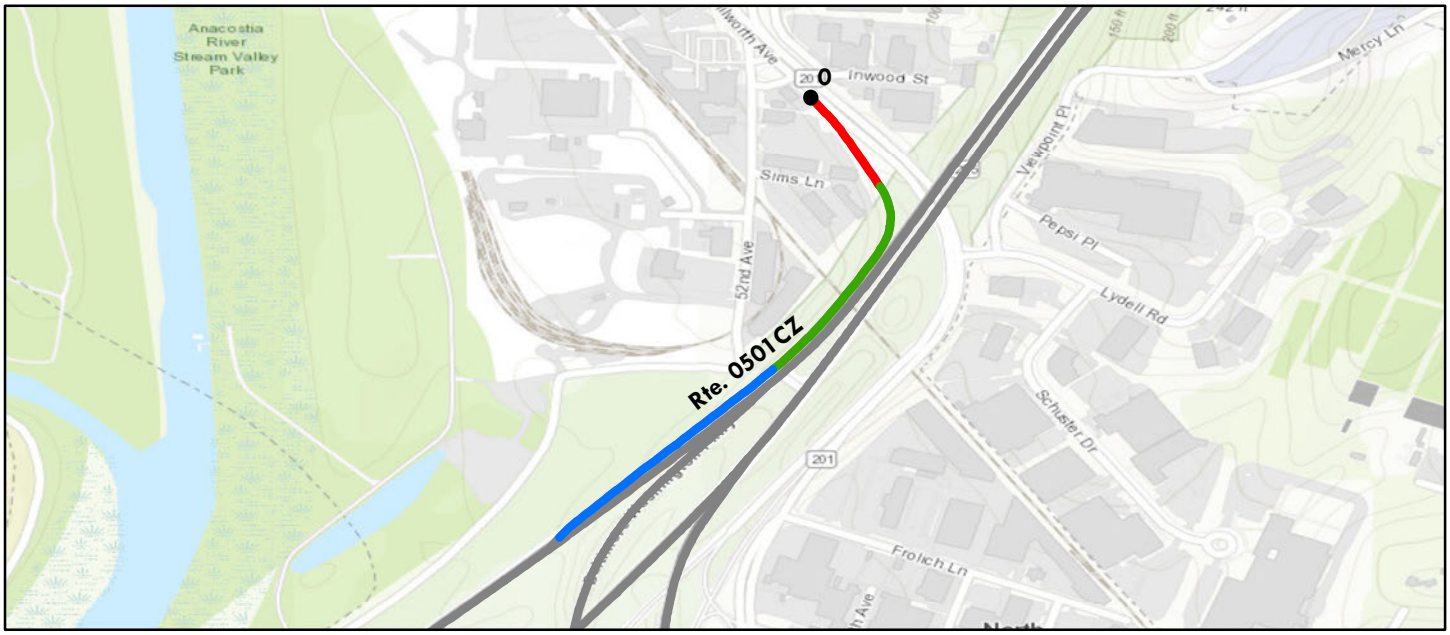
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.33	**Section Length (MI)**	0.33				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	91	91				
Surface Condition Rating (SCR)	91	91				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	91	91				
Alligator Crack Index	100	100				
Longitudinal Crack Index	91	91				
Transverse Cracking Index	93	93				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	32	32				
Lane Width (ft)	12.1	12.1				

Baltimore - Washington Parkway

ROUTE 0501CZ: RAMP FROM S/B KENILWORTH AVENUE TO S/B BW PARKWAY

Subcomponent of Route BAWA-0501ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

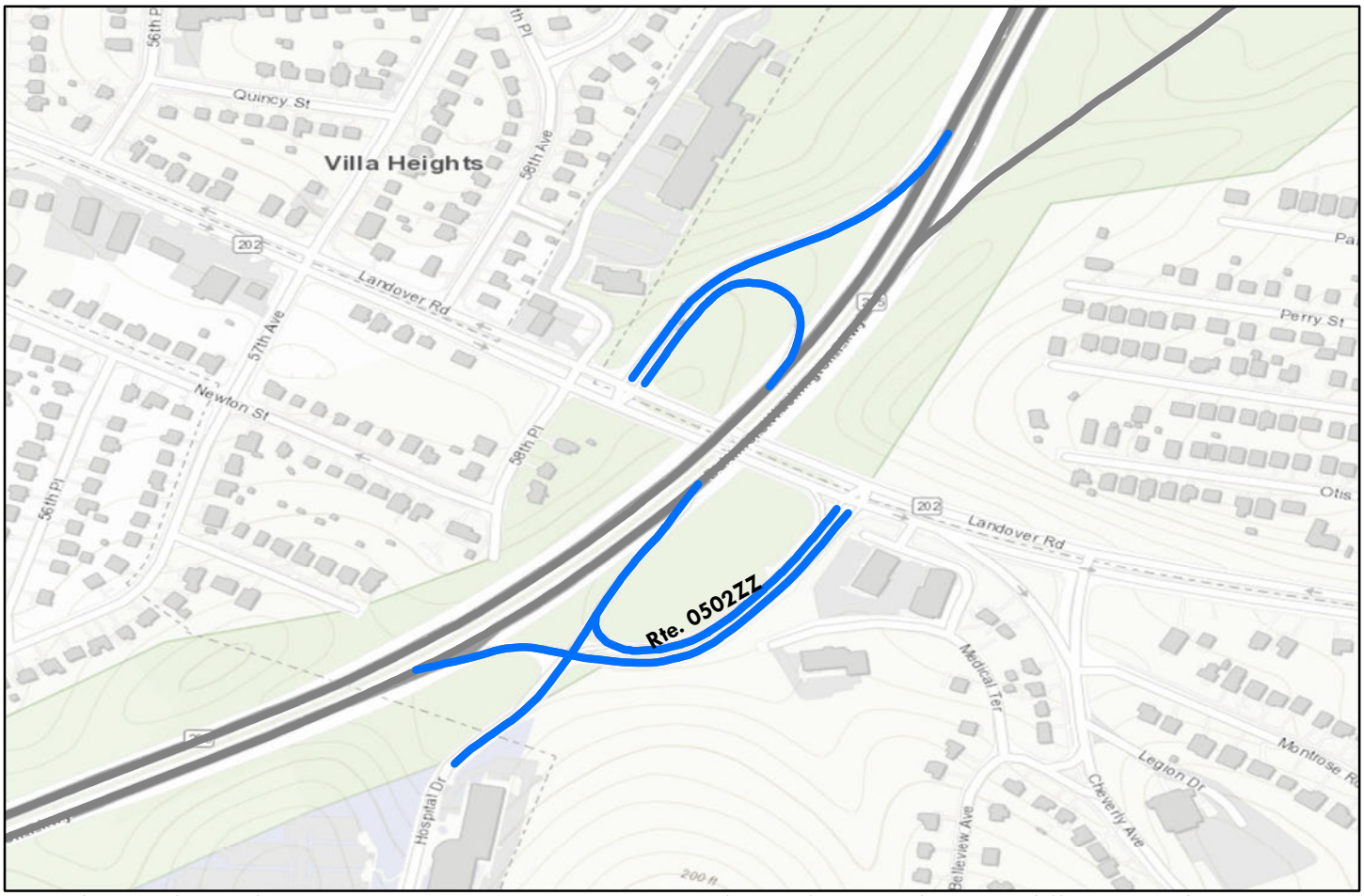
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0					
Paved Length (Miles): 0.52	**Section Length (MI)**	0.52					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	90	90					
Surface Condition Rating (SCR)	94	94					
Roughness Condition Index (RCI)	84	84					
Distress Index Values							
Structural Crack Index	99	99					
Alligator Crack Index	100	100					
Longitudinal Crack Index	99	99					
Transverse Cracking Index	94	94					
Patching Index	100	100					
Rutting Index	100	100					
International Roughness Index (IRI)	158	158					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	16.7	16.7					
Lane Width (ft)	13.5	13.5					

Baltimore - Washington Parkway

ROUTE 0502ZZ: LANDOVER ROAD RAMPS (MD HIGHWAY 202 INTERCHANGE)

Summary Route



Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

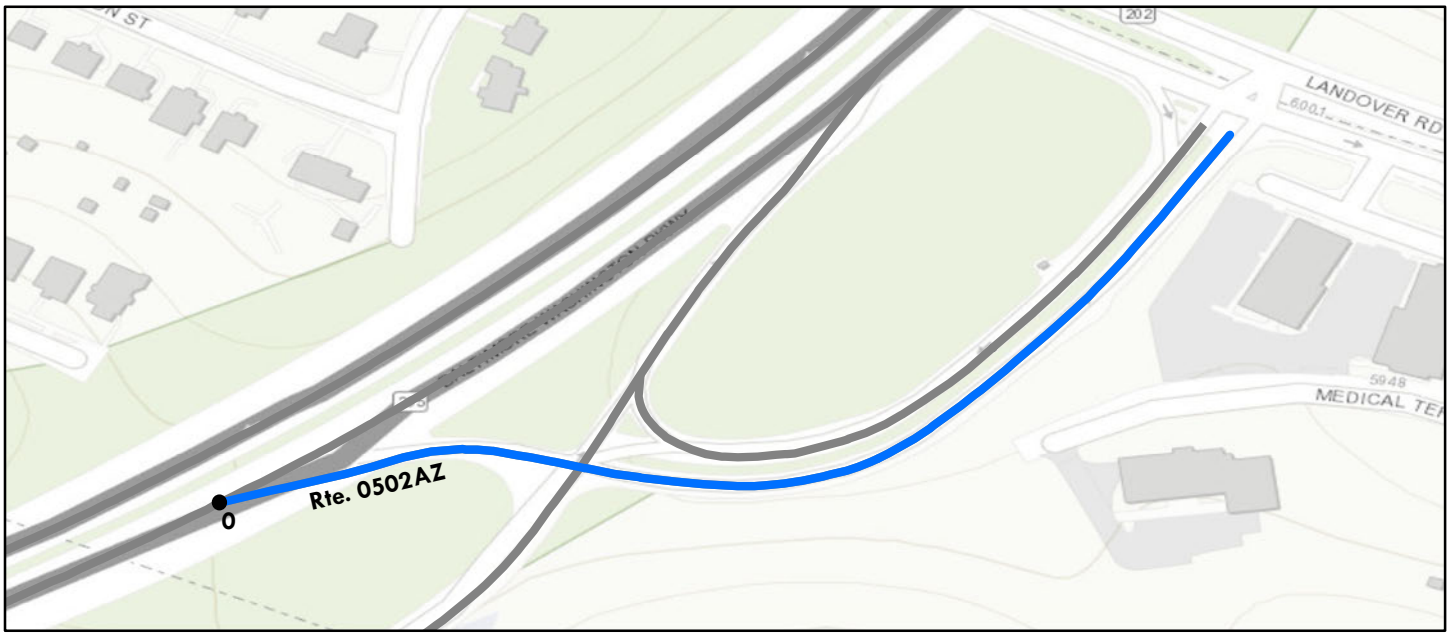
Inspection Date:	6/9/2018
Paved Length (Miles):	0.76
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	97
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	18.8
Lane Width (ft)	14.7

Baltimore - Washington Parkway

ROUTE 0502AZ: RAMP FROM N/B BW PARKWAY TO ROUTE 202

Subcomponent of Route BAWA-0502ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

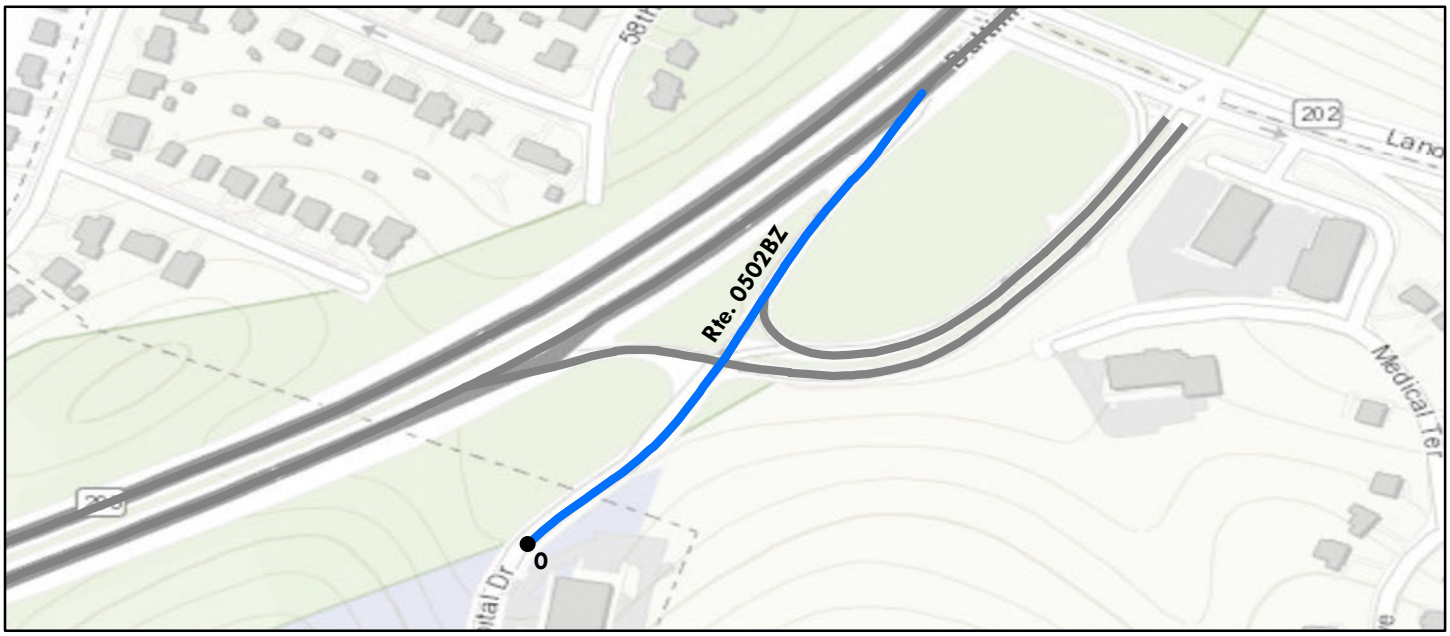
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.19	**Section Length (MI)**	0.19				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	19.2	19.2				
Lane Width (ft)	14.9	14.9				

Baltimore - Washington Parkway

ROUTE 0502BZ: RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY

Subcomponent of Route BAWA-0502ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

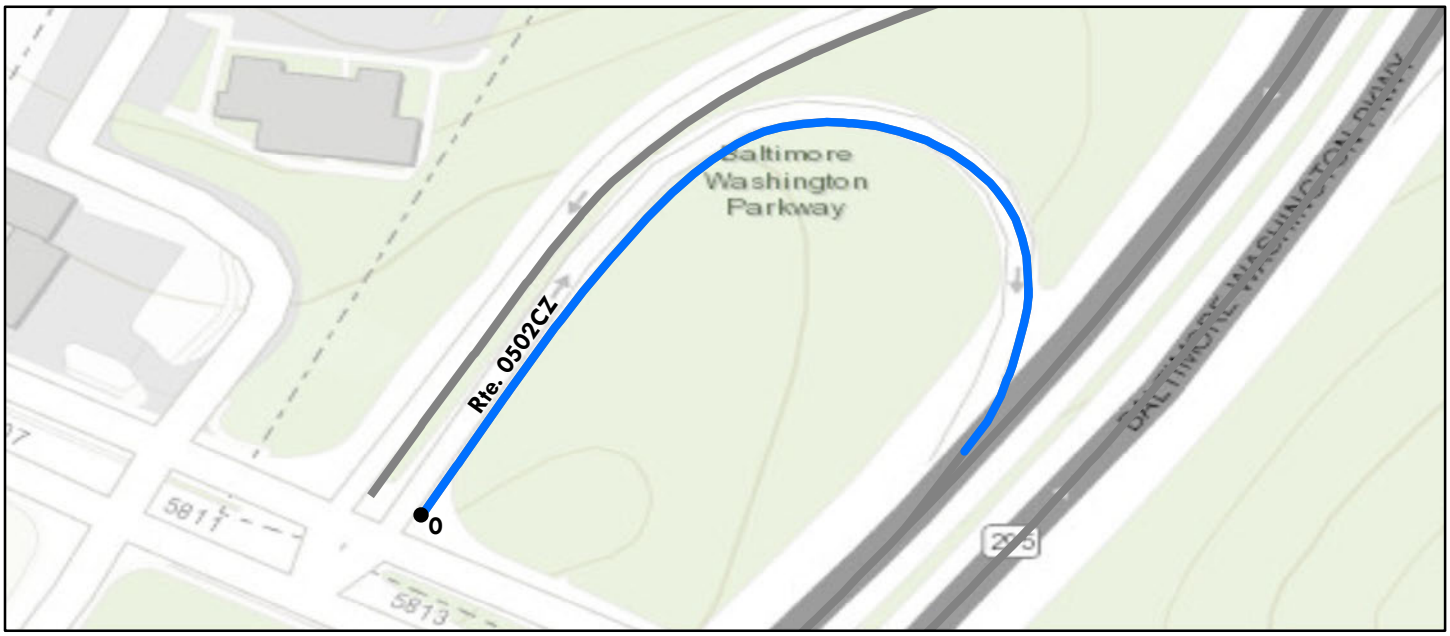
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.16	**Section Length (MI)**	0.16				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	19.6	19.6				
Lane Width (ft)	13.7	13.7				

Baltimore - Washington Parkway

ROUTE 0502CZ: RAMP FROM ROUTE 202 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0502ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

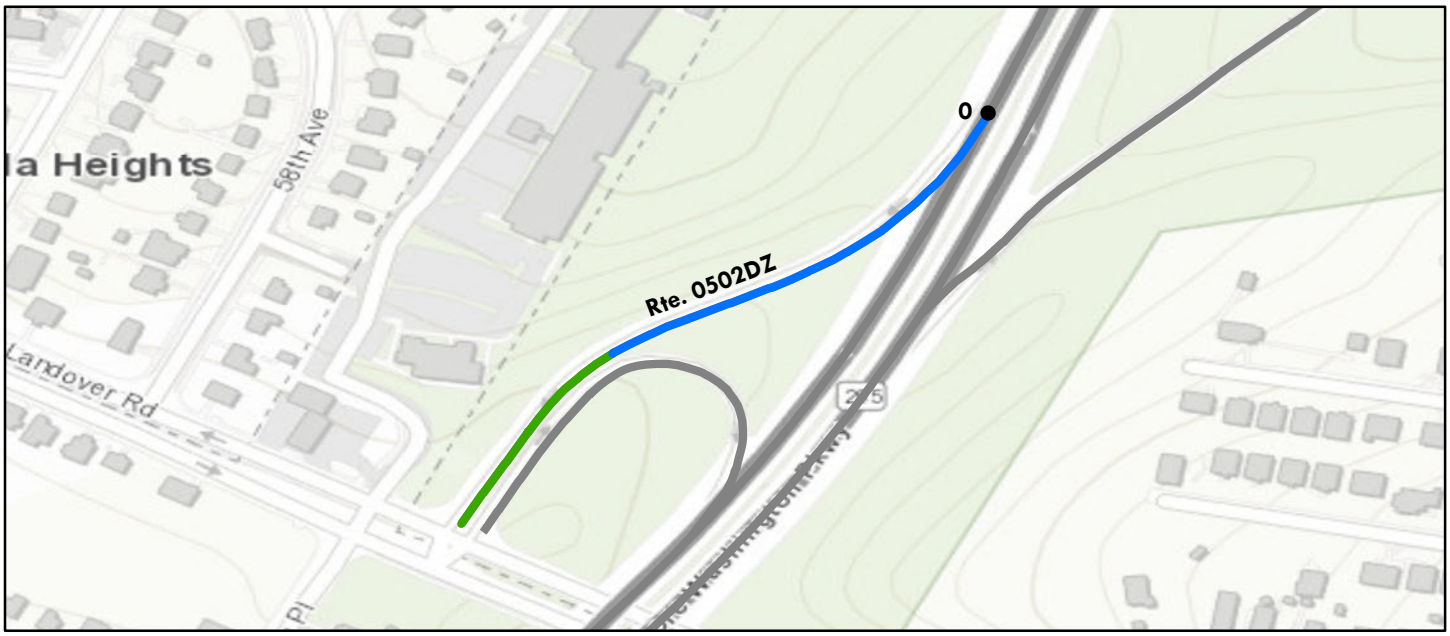
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.12	**Section Length (MI)**	0.12				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	97				
Surface Condition Rating (SCR)	97	97				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	97	97				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15	15				
Lane Width (ft)	13.1	13.1				

Baltimore - Washington Parkway

ROUTE 0502DZ: S/B BW PARKWAY RAMP TO ROUTE 202

Subcomponent of Route BAWA-0502ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

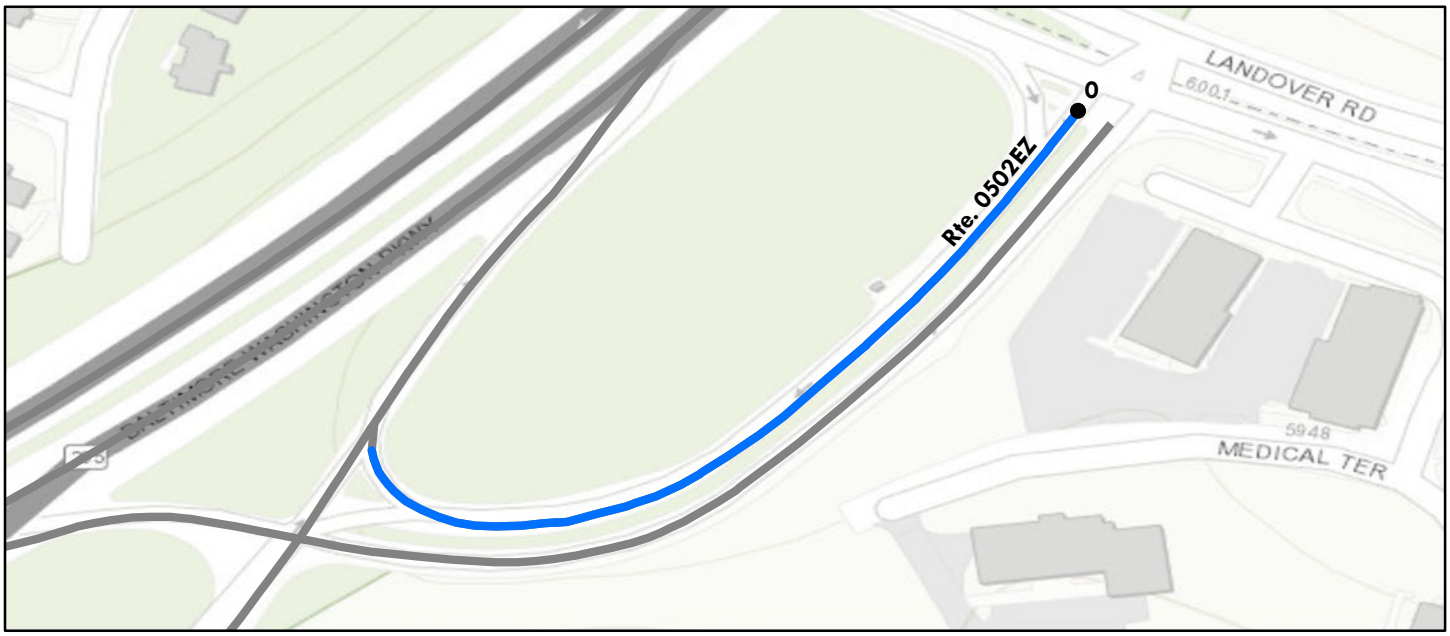
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.16	**Section Length (MI)**	0.16				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	95				
Surface Condition Rating (SCR)	95	95				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18.6	18.6				
Lane Width (ft)	15.8	15.8				

Baltimore - Washington Parkway

ROUTE 0502EZ: RAMP FROM ROUTE 202 TO RAMP FROM HOSPITAL DRIVE

Subcomponent of Route BAWA-0502ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

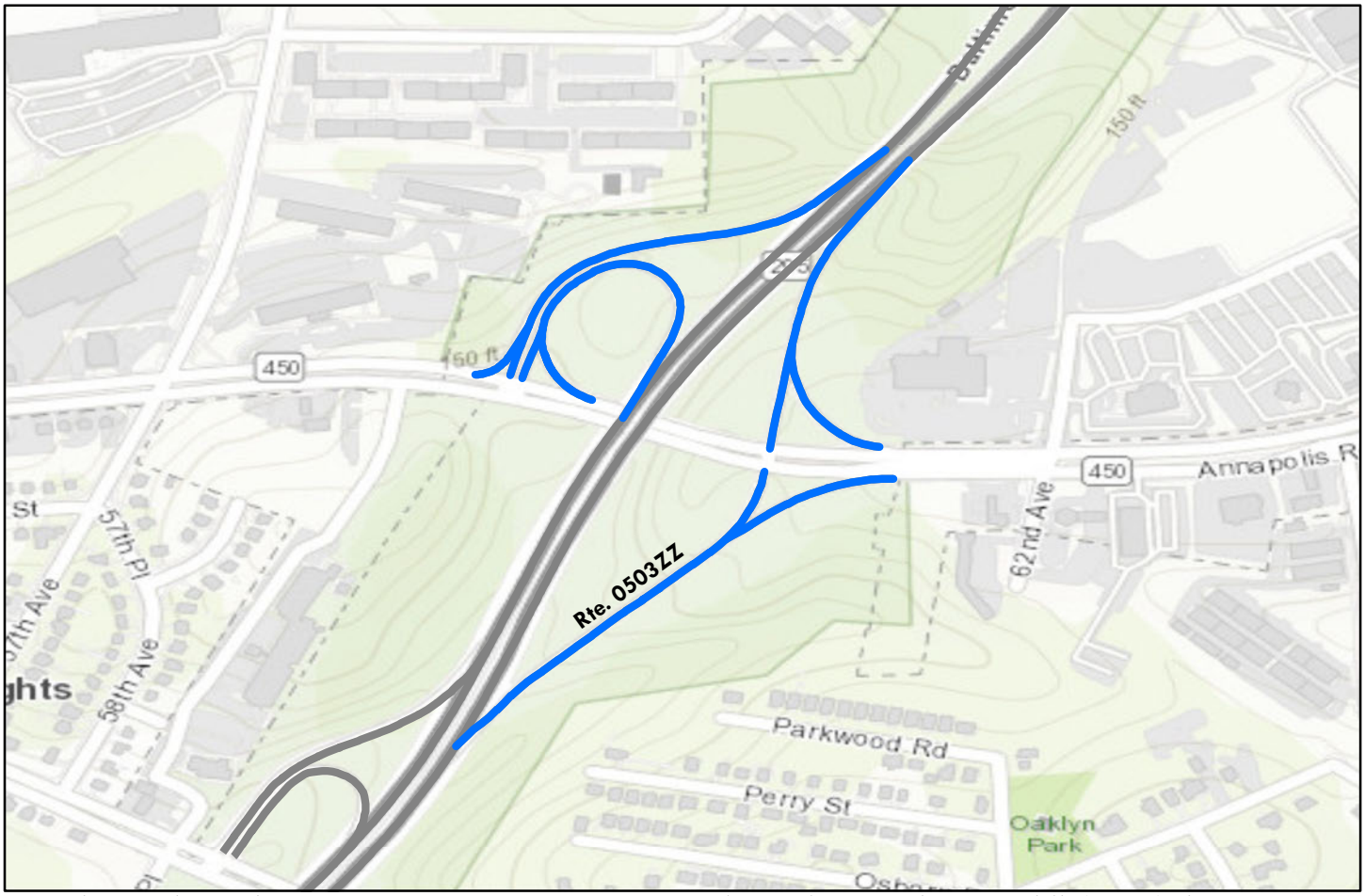
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.13	**Section Length (MI)**	0.13				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	20.9	20.9				
Lane Width (ft)	15.7	15.7				

Baltimore - Washington Parkway

ROUTE 0503ZZ: ANNAPOLIS ROAD RAMPS (MD HIGHWAY 450 INTERCHANGE)

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/9/2018
Paved Length (Miles):	0.96
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	98
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	15
Lane Width (ft)	13.4

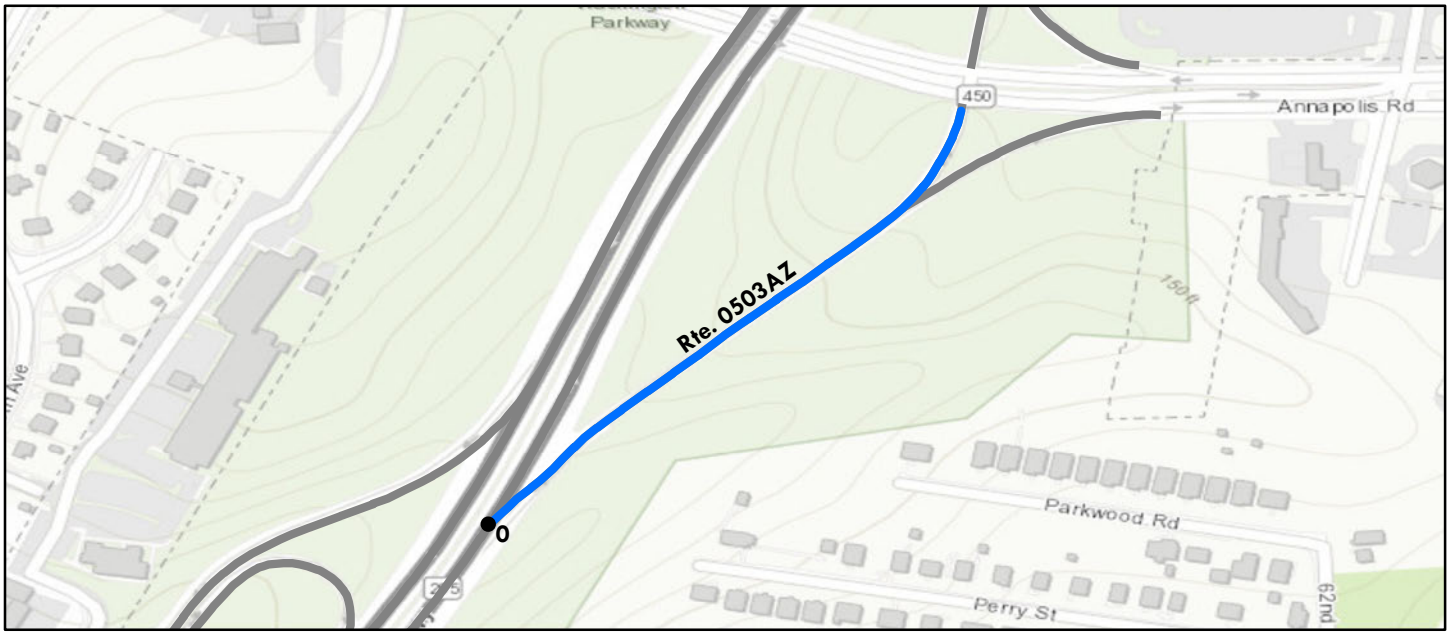
Route Summary

Baltimore - Washington Parkway

ROUTE 0503AZ: N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

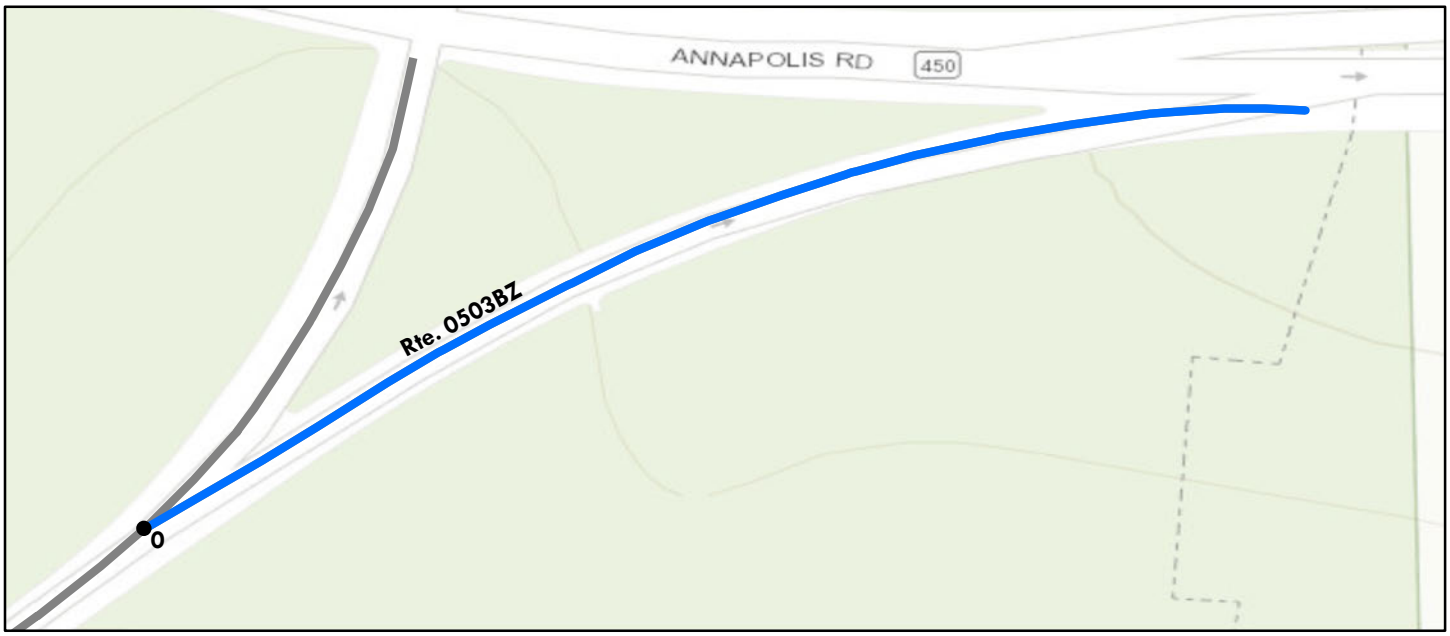
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.2	**Section Length (MI)**	0.2				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.2	16.2				
Lane Width (ft)	14.6	14.6				

Baltimore - Washington Parkway

ROUTE 0503BZ: N/B BW PARKWAY RAMP TO E/B MD HIGHWAY 450 SPUR

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.08	**Section Length (MI)**	0.08				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.9	15.9				
Lane Width (ft)	14.5	14.5				

Baltimore - Washington Parkway

ROUTE 0503CAZ: S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB)

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

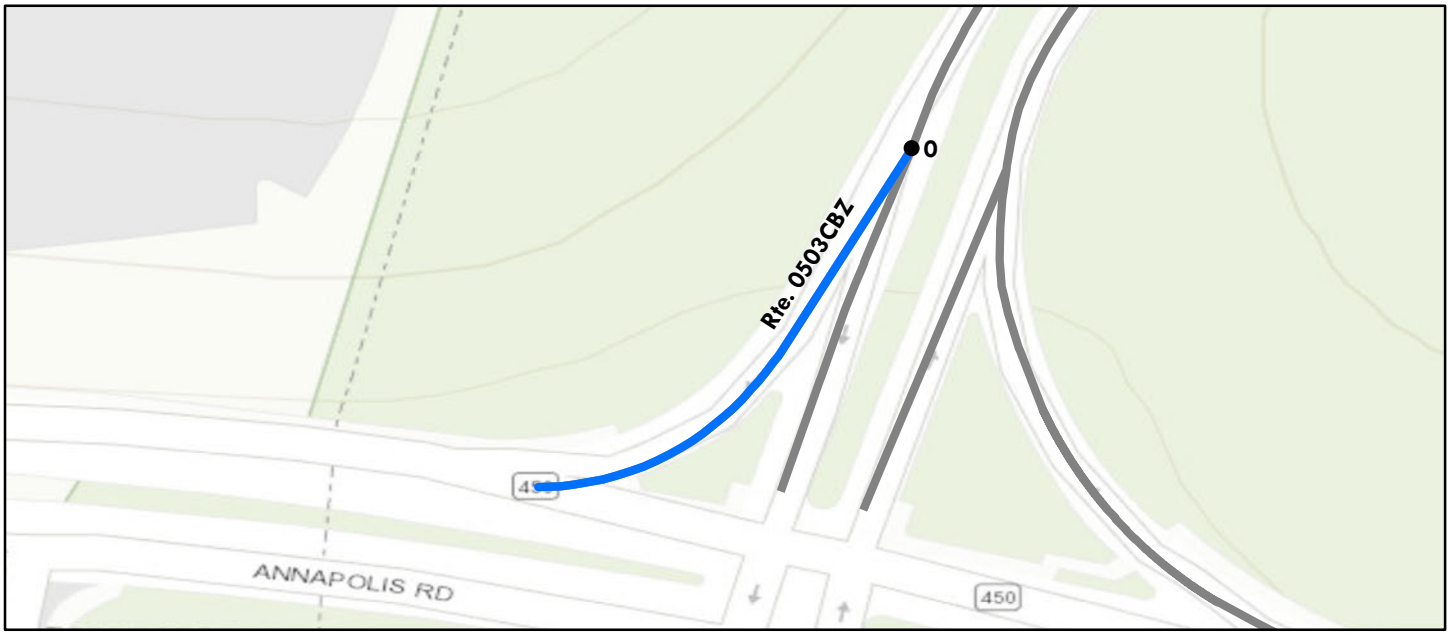
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.22	**Section Length (MI)**	0.22				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12.5	12.5				
Lane Width (ft)	10.9	10.9				

Baltimore - Washington Parkway

ROUTE 0503CBZ: S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (WB)

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

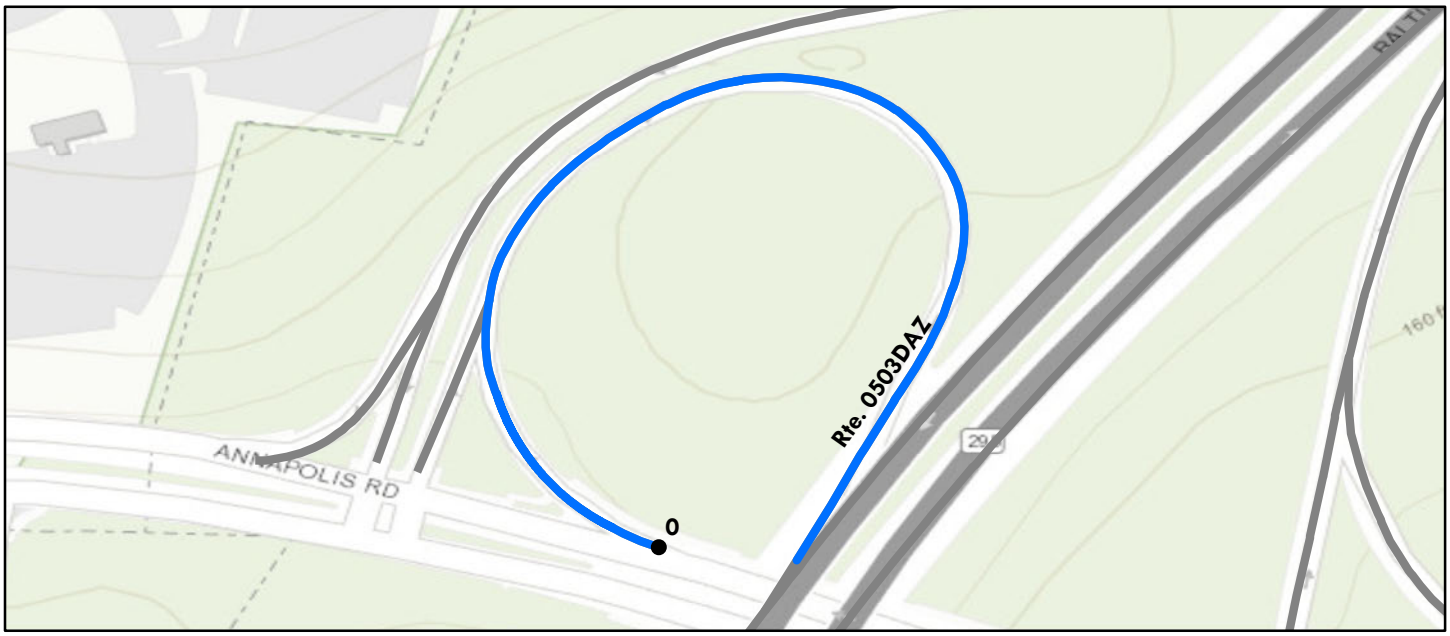
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.03	**Section Length (MI)**	0.03				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18.7	18.7				
Lane Width (ft)	16.7	16.7				

Baltimore - Washington Parkway

ROUTE 0503DAZ: RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating



Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.2	**Section Length (MI)**	0.2				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.6	15.6				
Lane Width (ft)	13.9	13.9				

Baltimore - Washington Parkway

ROUTE 0503DBZ: RAMP FROM E/B AND W/B MD HIGHWAY 450 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.03	**Section Length (MI)**	0.03				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	87	87				
Surface Condition Rating (SCR)	87	87				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	87	87				
Alligator Crack Index	100	100				
Longitudinal Crack Index	87	87				
Transverse Cracking Index	88	88				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.3	15.3				
Lane Width (ft)	13.5	13.5				

Baltimore - Washington Parkway

ROUTE 0503EZ: RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

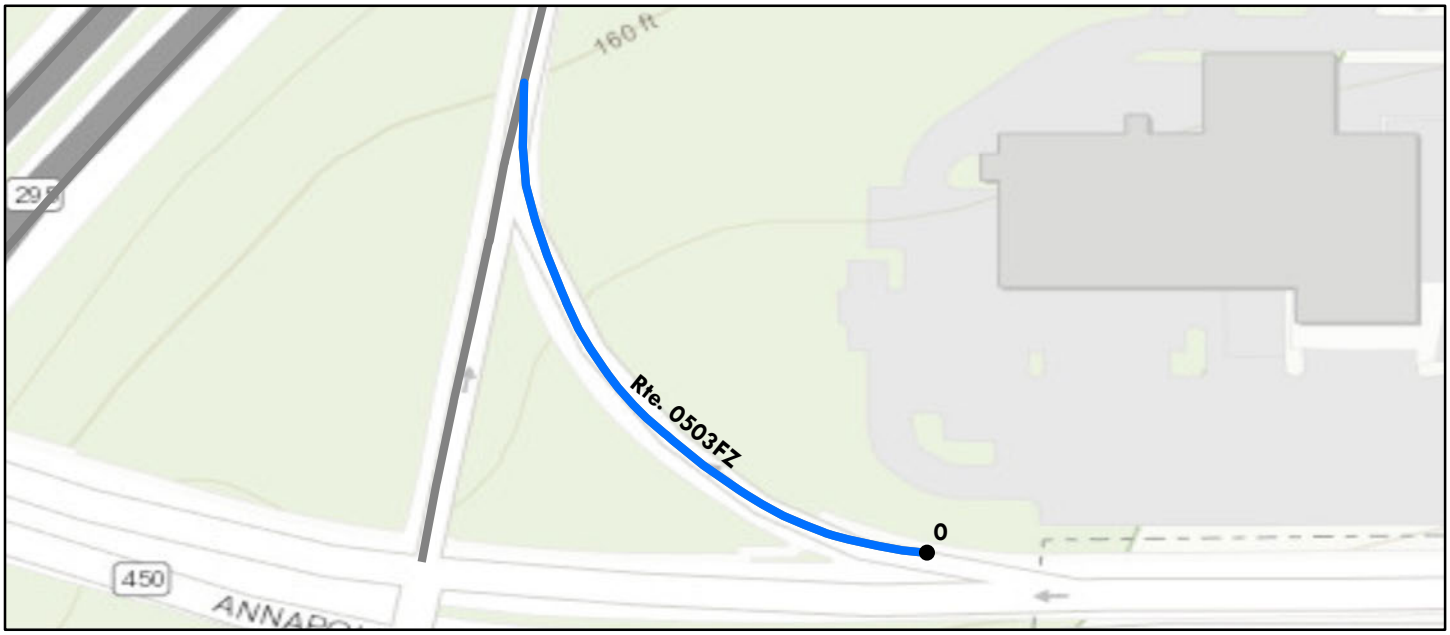
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.15	**Section Length (MI)**	0.15				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.1	15.1				
Lane Width (ft)	13.5	13.5				

Baltimore - Washington Parkway

ROUTE 0503FZ: RAMP FROM W/B MD HIGHWAY 450 TO N/B BW PARKWAY SPUR

Subcomponent of Route BAWA-0503ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

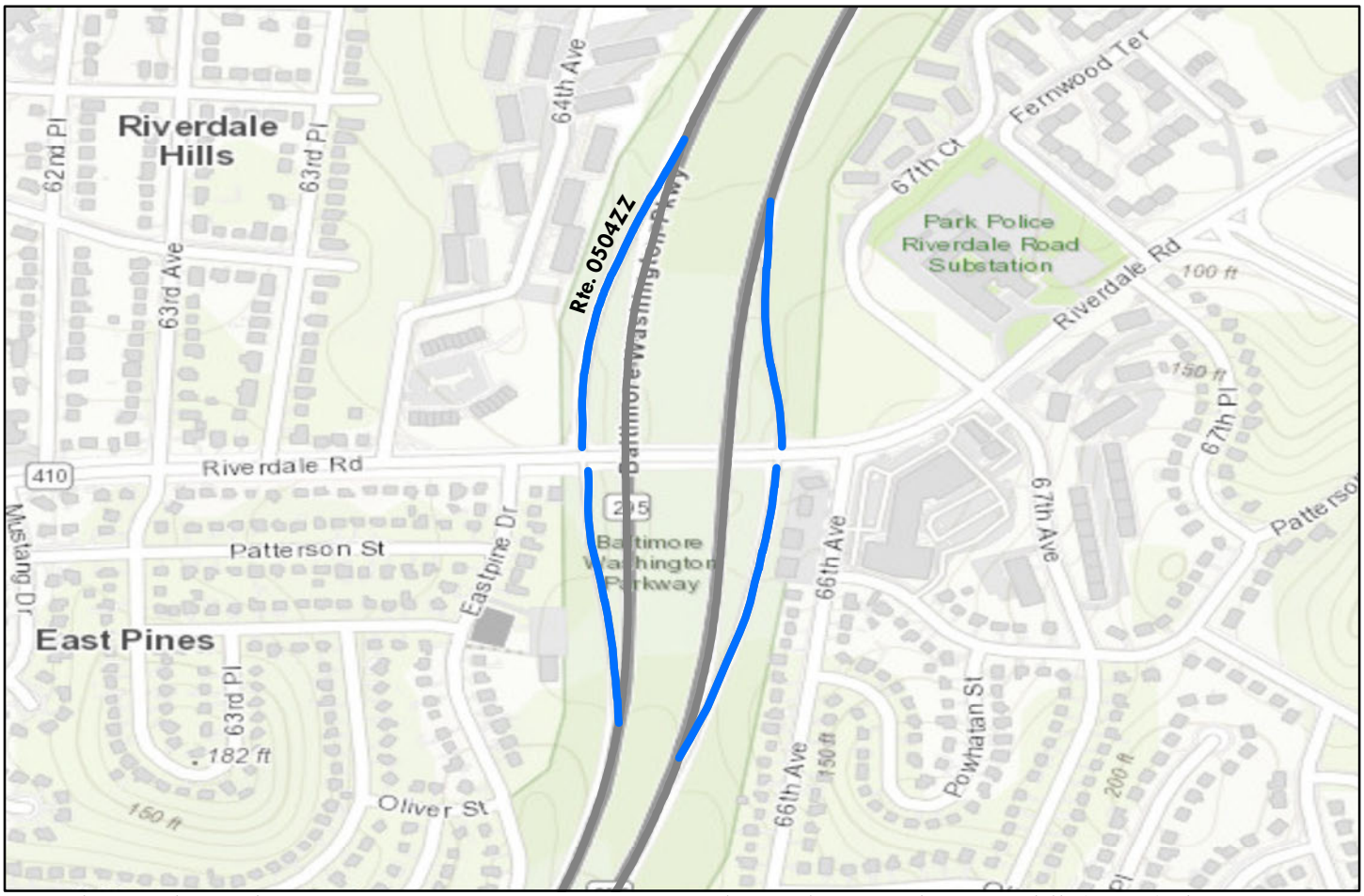
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.06	**Section Length (MI)**	0.06				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.4	15.4				
Lane Width (ft)	13.4	13.4				

Baltimore - Washington Parkway

ROUTE 0504ZZ: RIVERDALE ROAD RAMPS (MD HIGHWAY 410 INTERCHANGE)

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

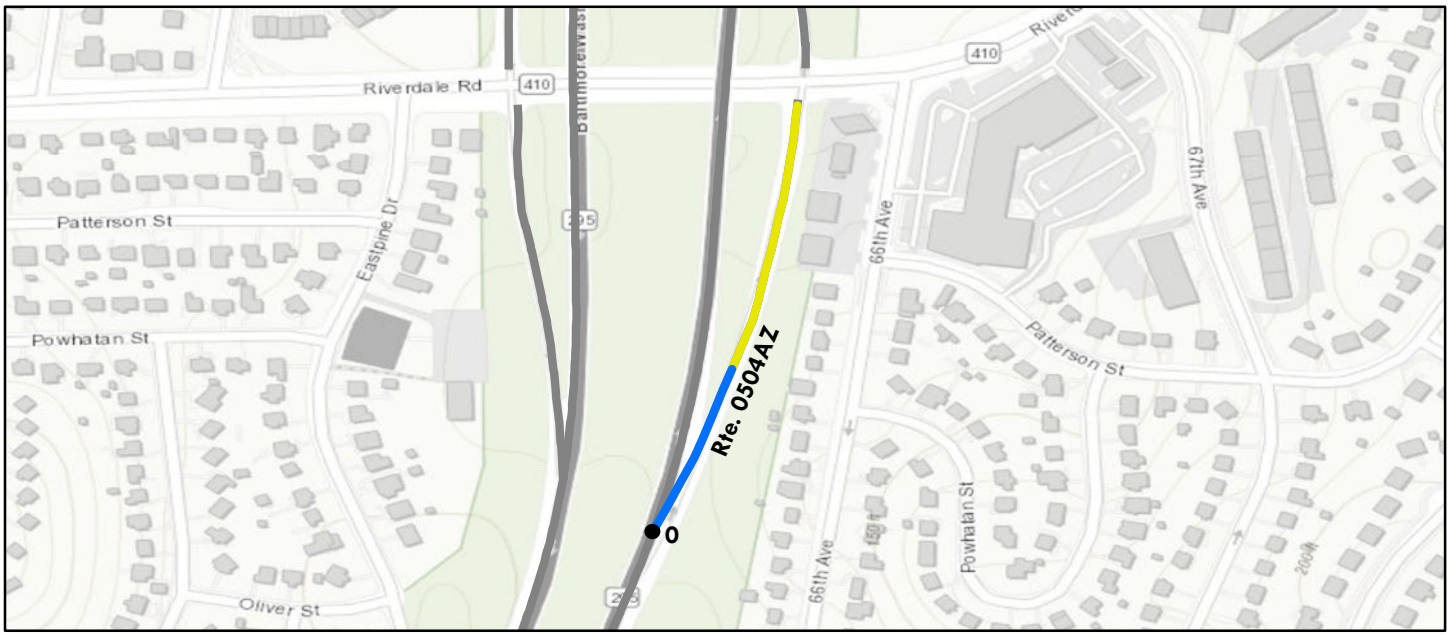
Inspection Date:	6/8/2018
Paved Length (Miles):	0.68
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	95
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	21.7
Lane Width (ft)	14.9

Baltimore - Washington Parkway

ROUTE 0504AZ: N/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)

Subcomponent of Route BAWA-0504ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.21	**Section Length (MI)**	0.21				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	88	88				
Surface Condition Rating (SCR)	88	88				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	88	88				
Alligator Crack Index	100	100				
Longitudinal Crack Index	88	88				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	25.5	25.5				
Lane Width (ft)	16	16				

Baltimore - Washington Parkway

ROUTE 0504BZ: S/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)

Subcomponent of Route BAWA-0504ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

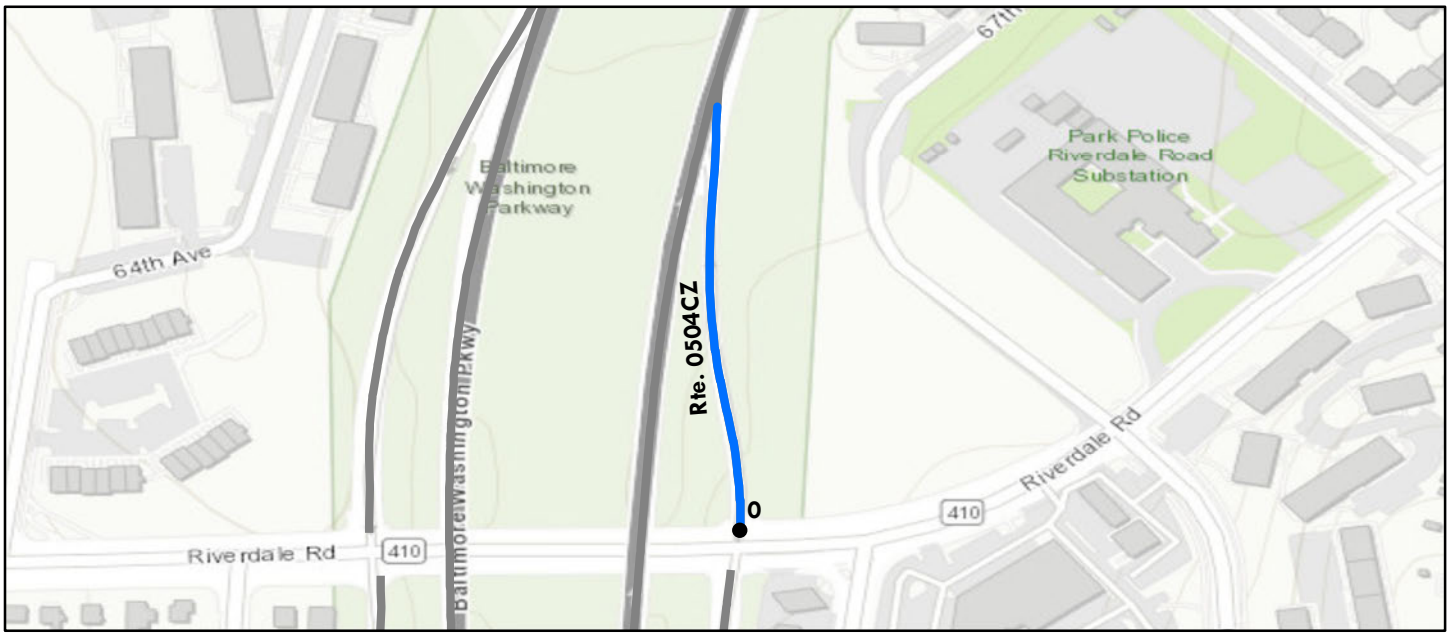
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.18	**Section Length (MI)**	0.18				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	97				
Surface Condition Rating (SCR)	97	97				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	26.5	26.5				
Lane Width (ft)	15.1	15.1				

Baltimore - Washington Parkway

ROUTE 0504CZ: RAMP FROM RIVERDALE ROAD (RT. 410) TO N/B BW PARKWAY

Subcomponent of Route BAWA-0504ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

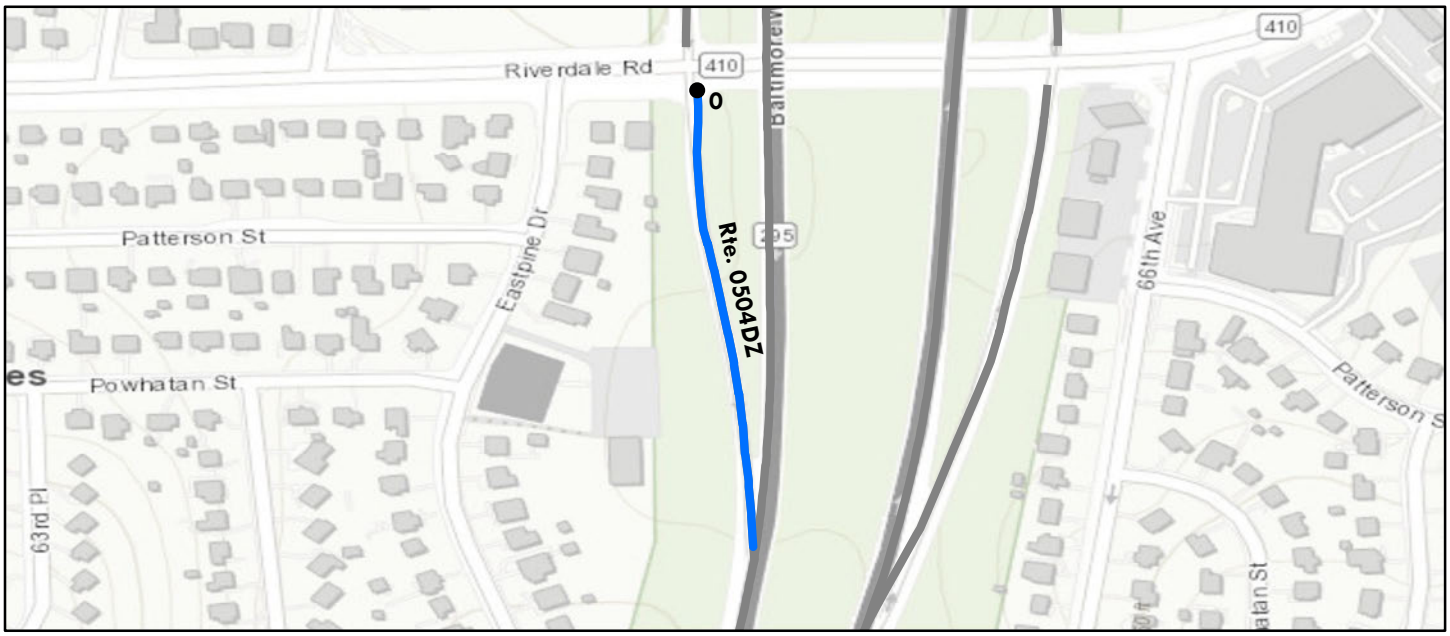
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.14	**Section Length (MI)**	0.14				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.5	15.5				
Lane Width (ft)	13.7	13.7				

Baltimore - Washington Parkway

ROUTE 0504DZ: RAMP FROM RIVERDALE ROAD (RT. 410) TO S/B BW PARKWAY

Subcomponent of Route BAWA-0504ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

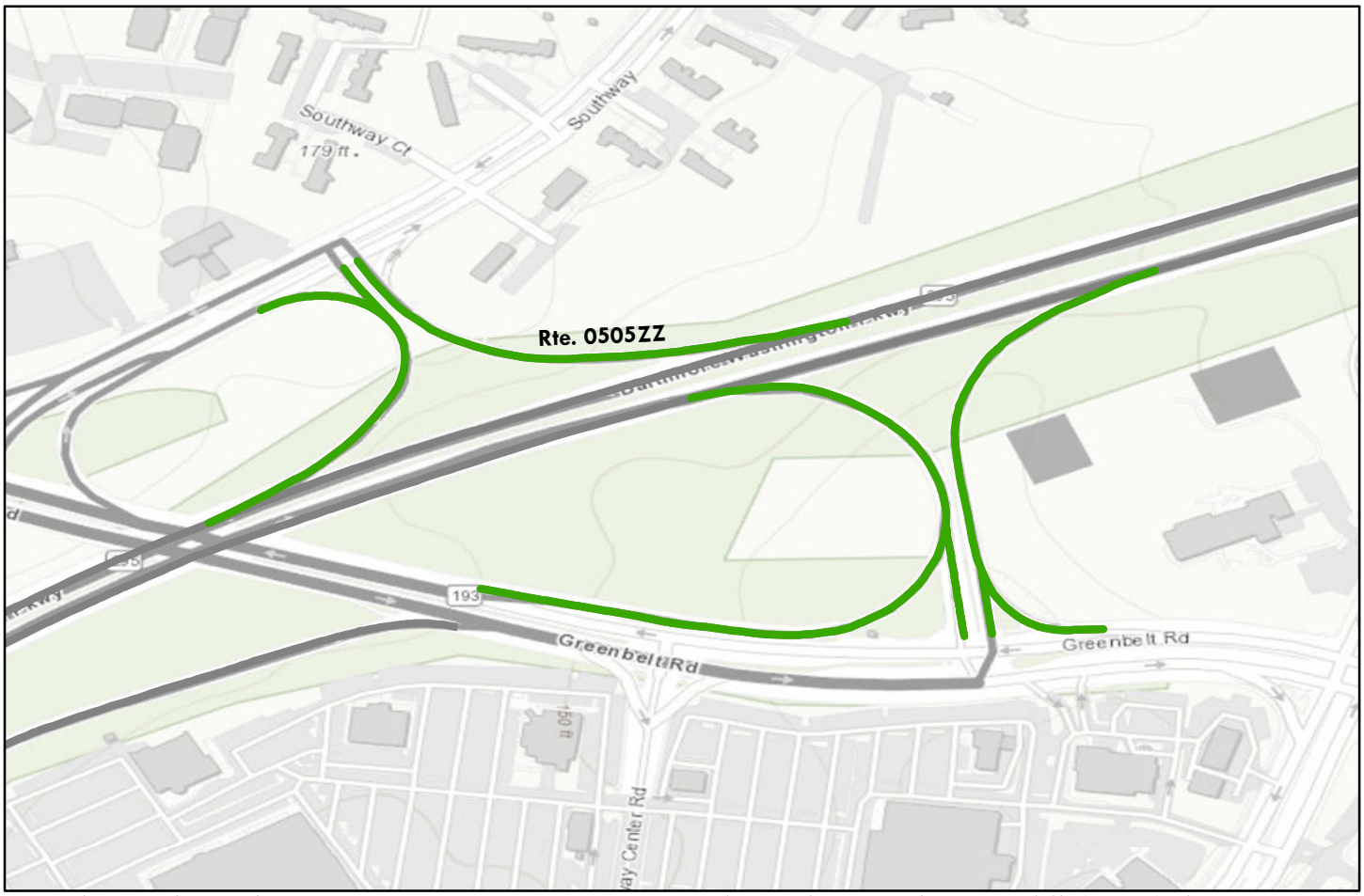
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0					
Paved Length (Miles): 0.15	**Section Length (MI)**	0.15					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	100	100					
Surface Condition Rating (SCR)	100	100					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	100	100					
Alligator Crack Index	100	100					
Longitudinal Crack Index	100	100					
Transverse Cracking Index	100	100					
Patching Index	100	100					
Rutting Index	100	100					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	16.2	16.2					
Lane Width (ft)	14.4	14.4					

Baltimore - Washington Parkway

ROUTE 0505ZZ: GREENBELT ROAD RAMPS (MD HIGHWAY 193 INTERCHANGE)

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

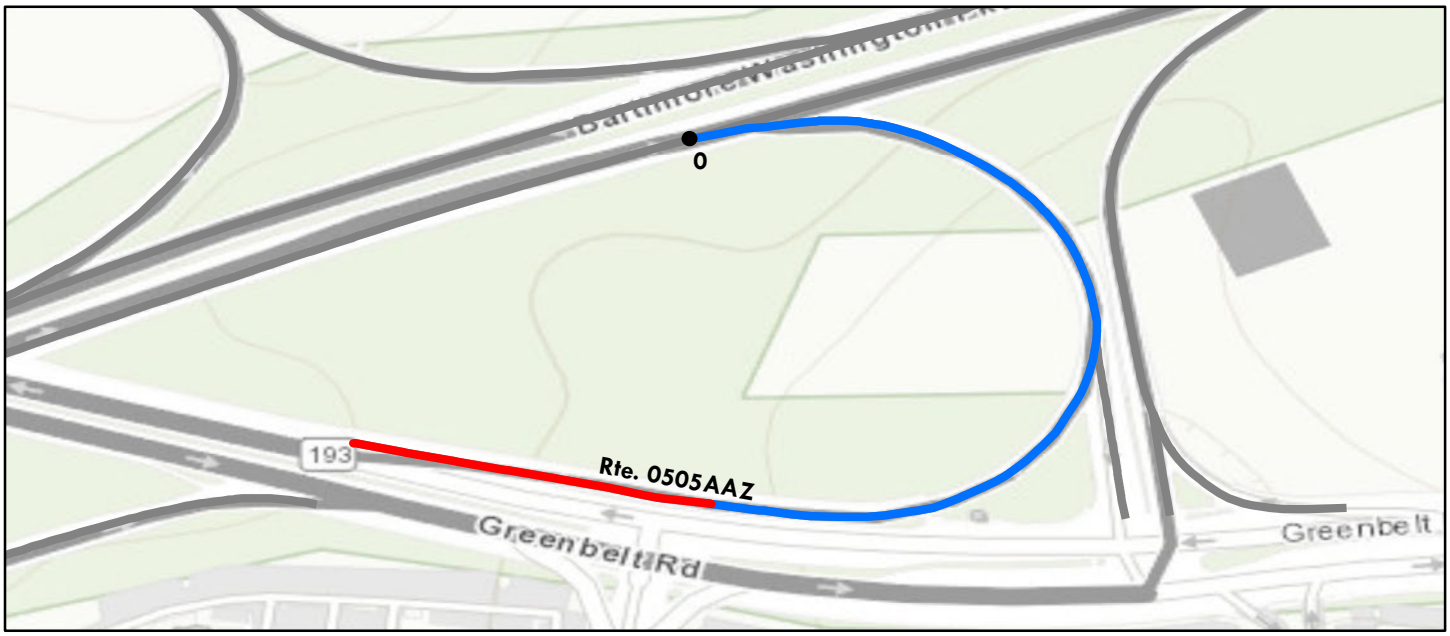
Inspection Date: 6/9/2018	
Paved Length (Miles): 0.82	
Surface Type: ASPHALT	**Route Summary**
Roadway Condition Information	
Pavement Condition Rating (PCR)	93
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	21.7
Lane Width (ft)	16.1

Baltimore - Washington Parkway

ROUTE 0505AAZ: N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB)

Subcomponent of Route BAWA-0505ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

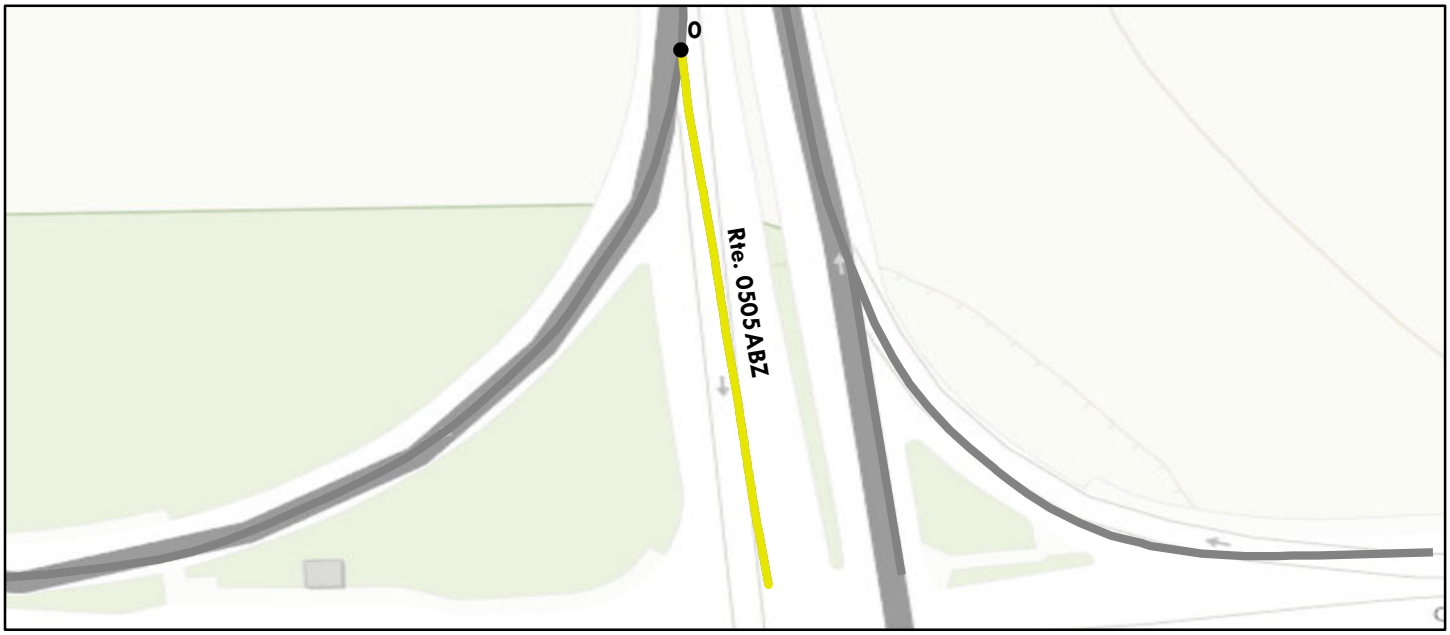
Inspection Date: 6/8/2018	**Beginning Section MP**	0					
Paved Length (Miles): 0.27	**Section Length (MI)**	0.27					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	87	87					
Surface Condition Rating (SCR)	87	87					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	87	87					
Alligator Crack Index	95	95					
Longitudinal Crack Index	92	92					
Transverse Cracking Index	99	99					
Patching Index	98	98					
Rutting Index	100	100					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	23.4	23.4					
Lane Width (ft)	16.3	16.3					

Baltimore - Washington Parkway

ROUTE 0505ABZ: N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB)

Subcomponent of Route BAWA-0505ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

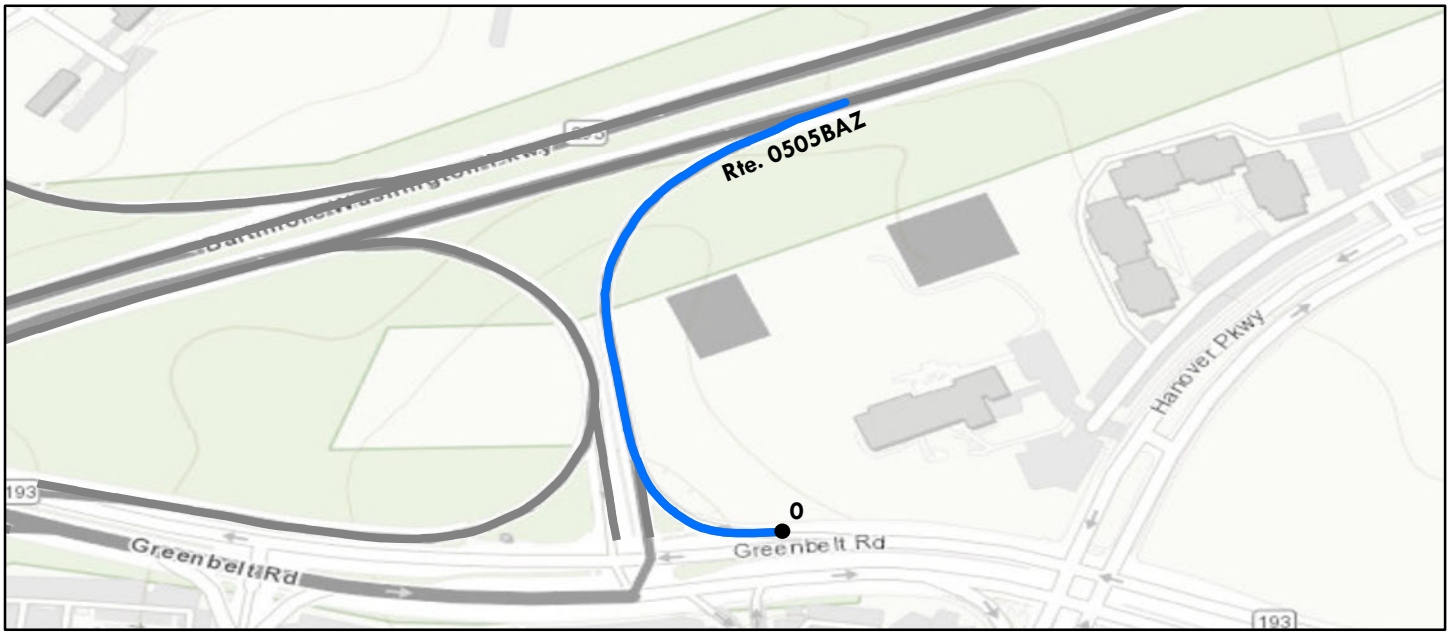
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.04	**Section Length (MI)**	0.04				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	84	84				
Surface Condition Rating (SCR)	84	84				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	84	84				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	3	3				
Paved Width (ft)	47.3	47.3				
Lane Width (ft)	13.1	13.1				

Baltimore - Washington Parkway

ROUTE 0505BAZ: RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY

Subcomponent of Route BAWA-0505ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

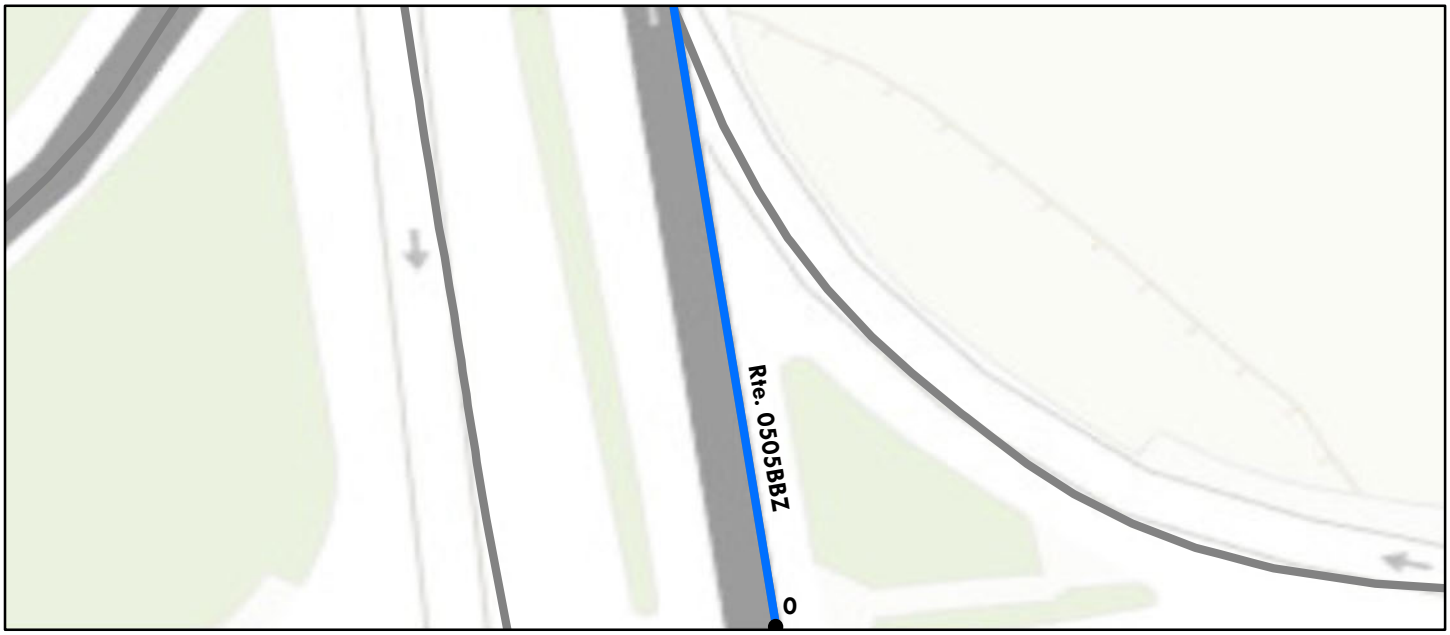
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.19	**Section Length (MI)**	0.19				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	20.3	20.3				
Lane Width (ft)	17.2	17.2				

Baltimore - Washington Parkway

ROUTE 0505BBZ: RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB) TO N/B BW PARKWAY

Subcomponent of Route BAWA-0505ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

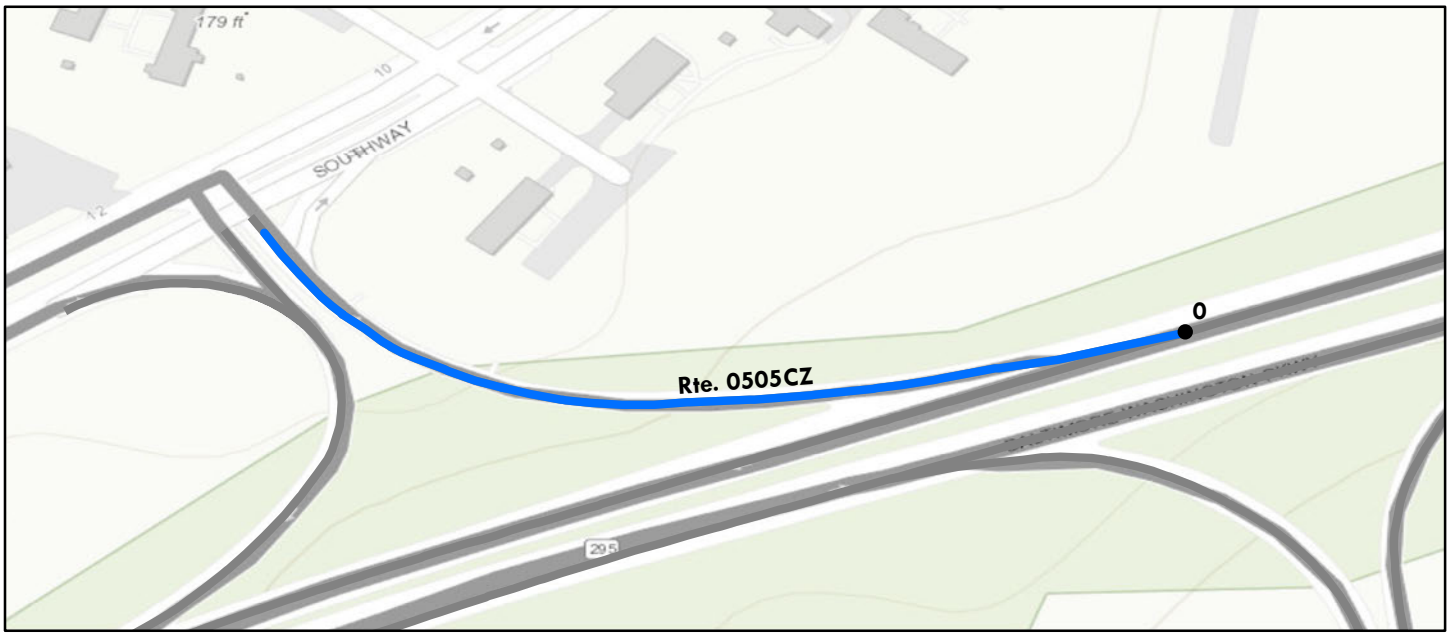
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.02	**Section Length (MI)**	0.02				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	25.7	25.7				
Lane Width (ft)	12.3	12.3				

Baltimore - Washington Parkway

ROUTE 0505CZ: S/B BW PARKWAY RAMP TO SOUTHWAY

Subcomponent of Route BAWA-0505ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

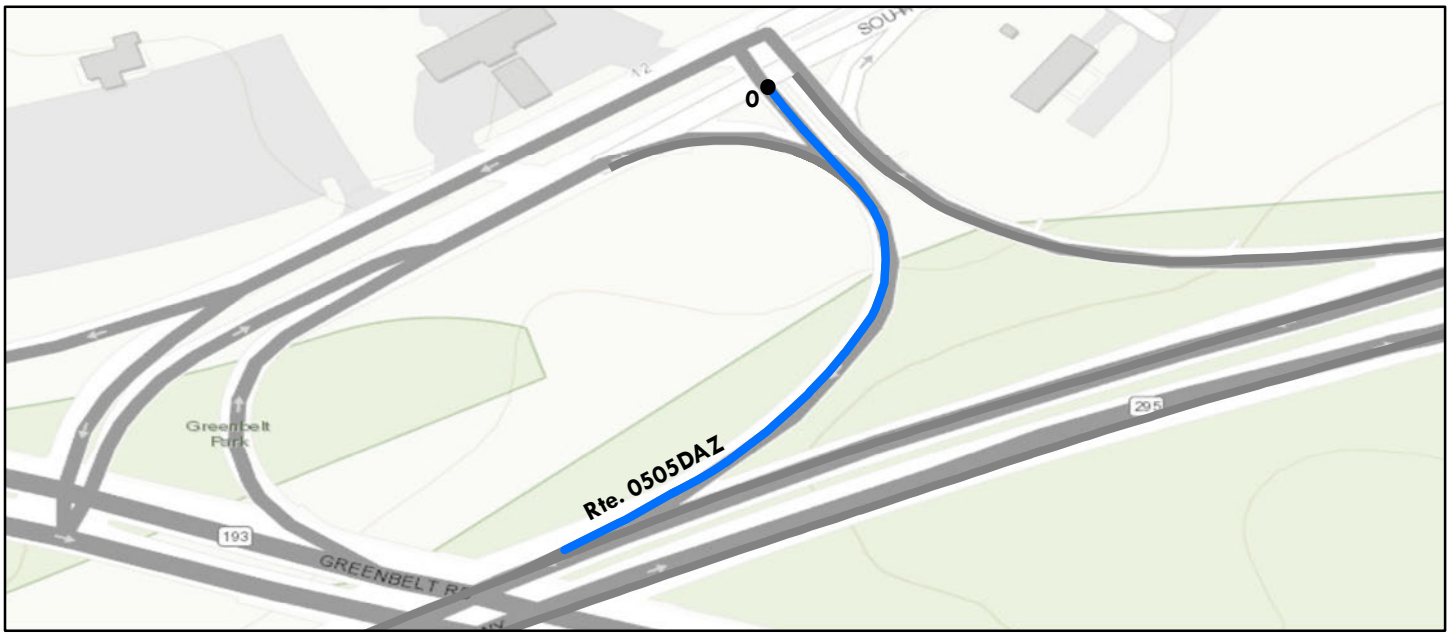
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.15	**Section Length (MI)**	0.15				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17	17				
Lane Width (ft)	14.8	14.8				

Baltimore - Washington Parkway

ROUTE 0505DAZ: RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY

Subcomponent of Route BAWA-0505ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.12	**Section Length (MI)**	0.12				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.5	16.5				
Lane Width (ft)	15.1	15.1				

Baltimore - Washington Parkway

ROUTE 0505DBZ: RAMP FROM SOUTHWAY TO S/B BW PARKWAY

Subcomponent of Route BAWA-0505ZZ

Data Collection Vehicle (DCV) Rating

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.03	**Section Length (MI)**	0.03				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	88	88				
Surface Condition Rating (SCR)	88	88				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	88	88				
Alligator Crack Index	100	100				
Longitudinal Crack Index	88	88				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	23.3	23.3				
Lane Width (ft)	22.7	22.7				

Baltimore - Washington Parkway

ROUTE 0506ZZ: POWDER MILL ROAD RAMPS (MD HIGHWAY 212 INTERCHANGE)

Summary Route

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/9/2018
Paved Length (Miles):	0.88
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	24
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	19.7
Lane Width (ft)	15.4

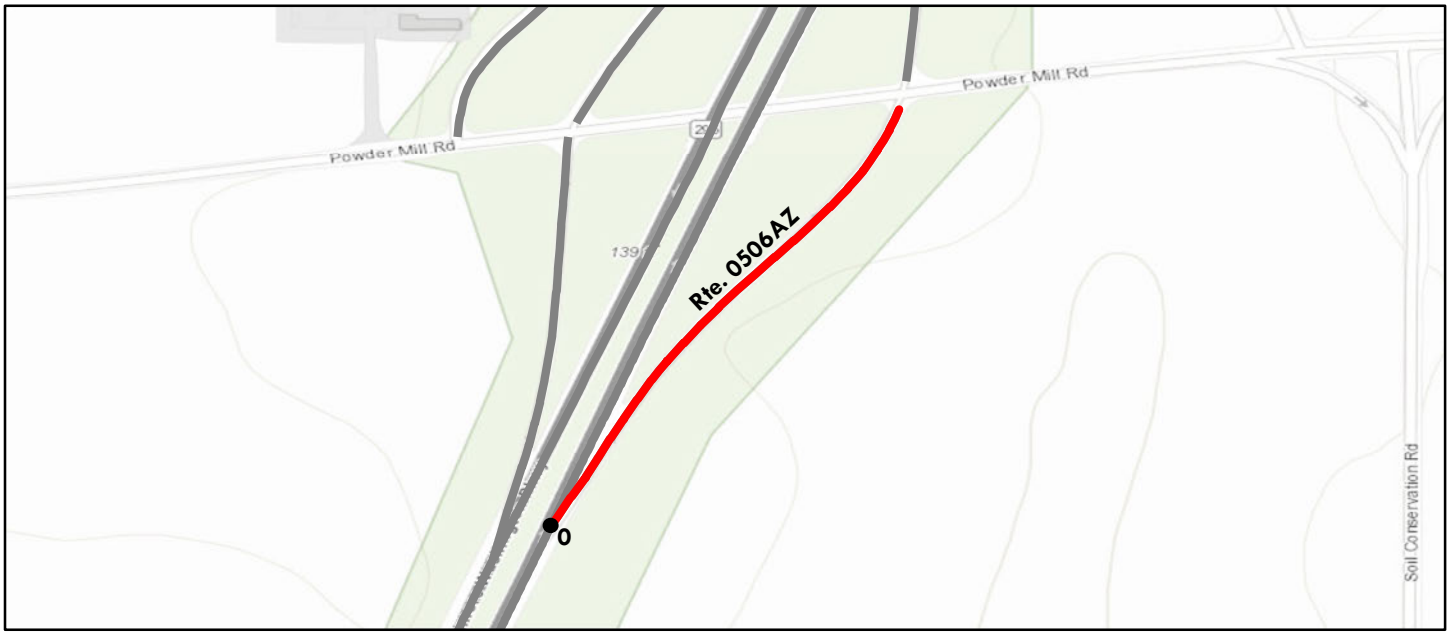
Route Summary

Baltimore - Washington Parkway

ROUTE 0506AZ: N/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)

Subcomponent of Route BAWA-0506ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.22	**Section Length (MI)**	0.22				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	8	8				
Surface Condition Rating (SCR)	8	8				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	8	8				
Alligator Crack Index	98	98				
Longitudinal Crack Index	10	10				
Transverse Cracking Index	94	94				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	22.8	22.8				
Lane Width (ft)	15.7	15.7				

Baltimore - Washington Parkway

ROUTE 0506BZ: S/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)

Subcomponent of Route BAWA-0506ZZ

Data Collection Vehicle (DCV) Rating

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.26	**Section Length (MI)**	0.26				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	5	5				
Surface Condition Rating (SCR)	5	5				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	5	5				
Alligator Crack Index	100	100				
Longitudinal Crack Index	5	5				
Transverse Cracking Index	74	74				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	23	23				
Lane Width (ft)	16.5	16.5				

Baltimore - Washington Parkway

ROUTE 0506CZ: RAMP FROM POWDER MILL ROAD (ROUTE 212) TO N/B BW PARKWAY

Subcomponent of Route BAWA-0506ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

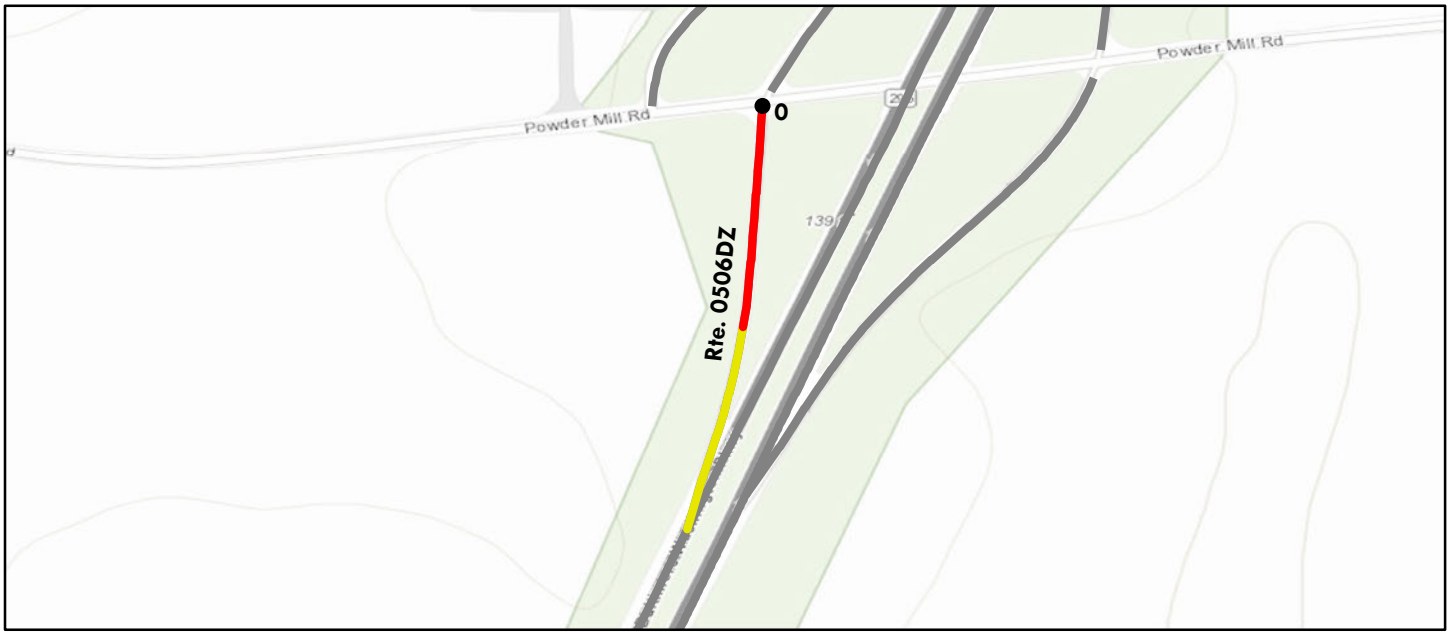
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.22	**Section Length (MI)**	0.22				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	75	75				
Surface Condition Rating (SCR)	75	75				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	75	75				
Alligator Crack Index	100	100				
Longitudinal Crack Index	75	75				
Transverse Cracking Index	97	97				
Patching Index	84	84				
Rutting Index	94	94				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.8	15.8				
Lane Width (ft)	14.7	14.7				

Baltimore - Washington Parkway

ROUTE 0506DZ: RAMP FROM POWDER MILL ROAD (ROUTE 212) TO S/B BW PARKWAY

Subcomponent of Route BAWA-0506ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.18	**Section Length (MI)**	0.18				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	28	28				
Surface Condition Rating (SCR)	28	28				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	28	28				
Alligator Crack Index	100	100				
Longitudinal Crack Index	28	28				
Transverse Cracking Index	94	94				
Patching Index	95	95				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.1	16.1				
Lane Width (ft)	14.5	14.5				

Baltimore - Washington Parkway

ROUTE 0507ZZ: LAUREL-BOWIE ROAD RAMPS (MD HIGHWAY 197 INTERCHANGE)

Summary Route

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

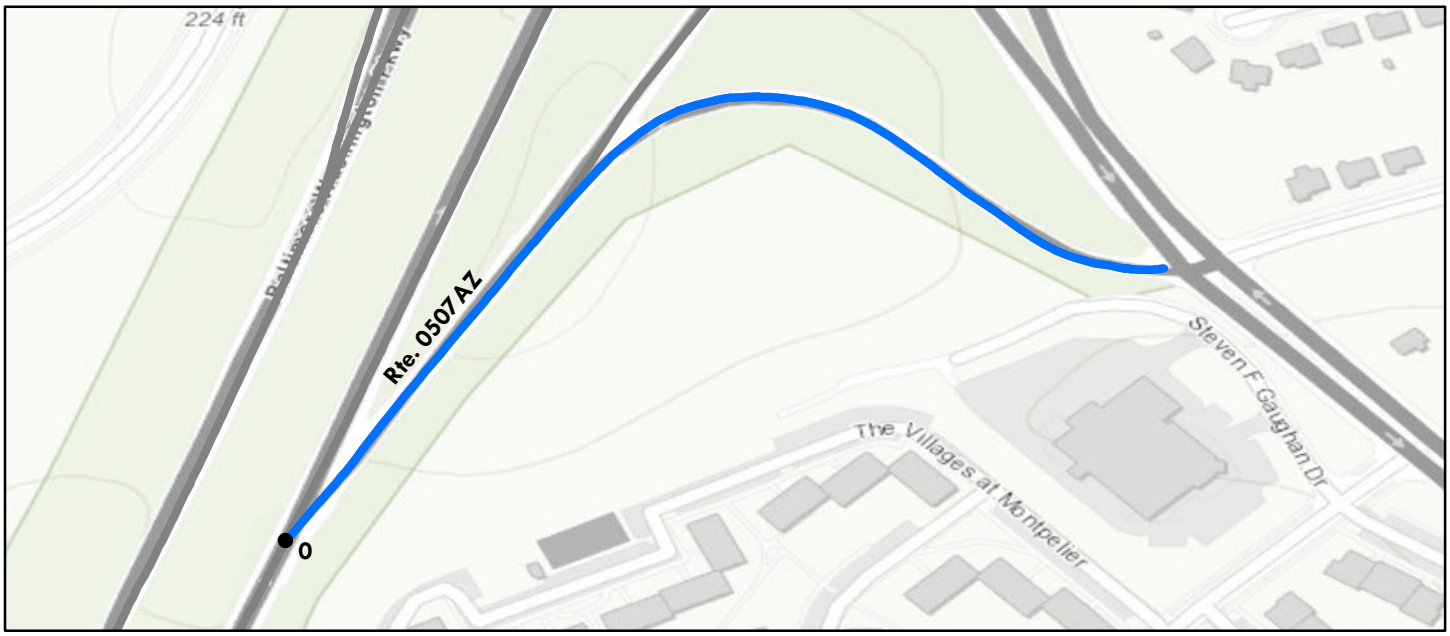
Inspection Date:	6/9/2018
Paved Length (Miles):	1.62
Surface Type:	ASPHALT
Roadway Condition Information	**Route Summary**
Pavement Condition Rating (PCR)	97
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	22
Lane Width (ft)	14.3

Baltimore - Washington Parkway

ROUTE 0507AZ: N/B BW PARKWAY RAMP TO S/B ROUTE 197

Subcomponent of Route BAWA-0507ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

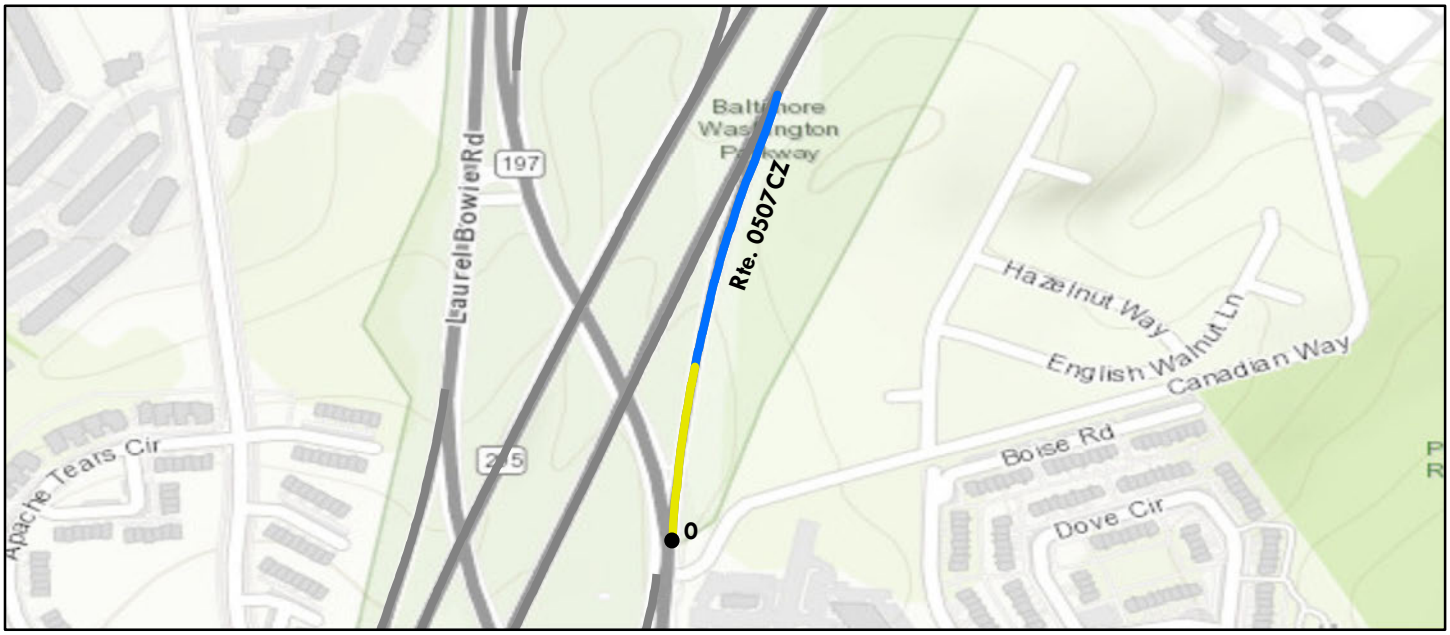
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.31	**Section Length (MI)**	0.31				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	30.2	30.2				
Lane Width (ft)	12.9	12.9				

Baltimore - Washington Parkway

ROUTE 0507CZ: RAMP FROM ROUTE 197 TO N/B BW PARKWAY

Subcomponent of Route BAWA-0507ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

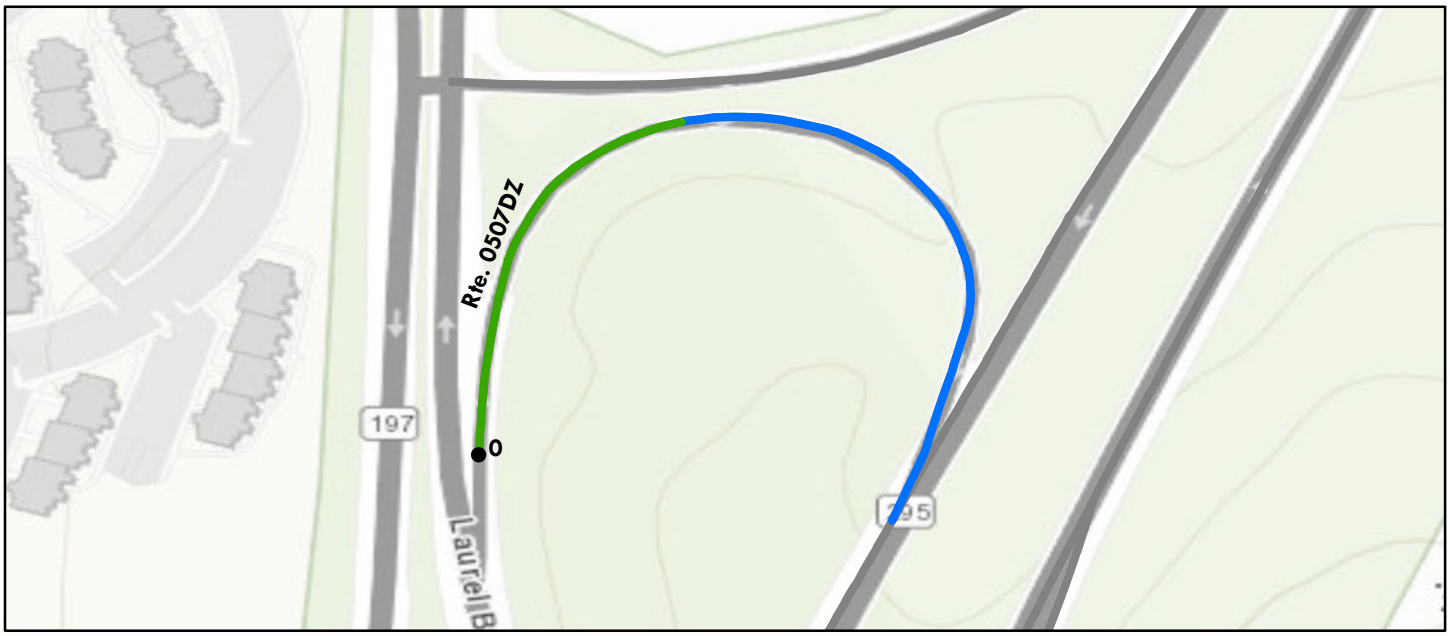
Inspection Date: 6/9/2018	**Beginning Section MP**	0					
Paved Length (Miles): 0.26	**Section Length (MI)**	0.26					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	94	94					
Surface Condition Rating (SCR)	94	94					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	94	94					
Alligator Crack Index	100	100					
Longitudinal Crack Index	94	94					
Transverse Cracking Index	100	100					
Patching Index	100	100					
Rutting Index	100	100					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	17.5	17.5					
Lane Width (ft)	15.4	15.4					

Baltimore - Washington Parkway

ROUTE 0507DZ: RAMP FROM ROUTE 197 N/B TO S/B BW PARKWAY

Subcomponent of Route BAWA-0507ZZ

Data Collection Vehicle (DCV) Rating



Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

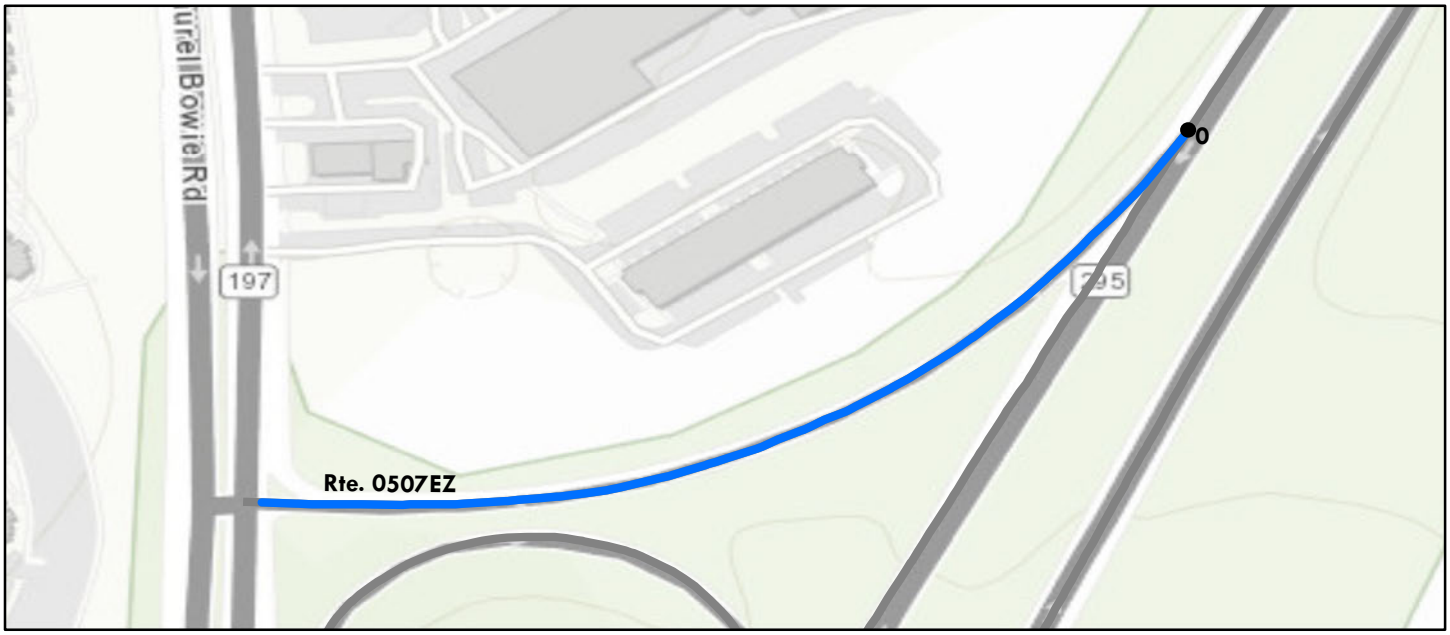
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.23	**Section Length (MI)**	0.23				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	94				
Surface Condition Rating (SCR)	94	94				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	94	94				
Alligator Crack Index	100	100				
Longitudinal Crack Index	94	94				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17.5	17.5				
Lane Width (ft)	15.7	15.7				

Baltimore - Washington Parkway

ROUTE 0507EZ: S/B BW PARKWAY RAMP TO ROUTE 197

Subcomponent of Route BAWA-0507ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

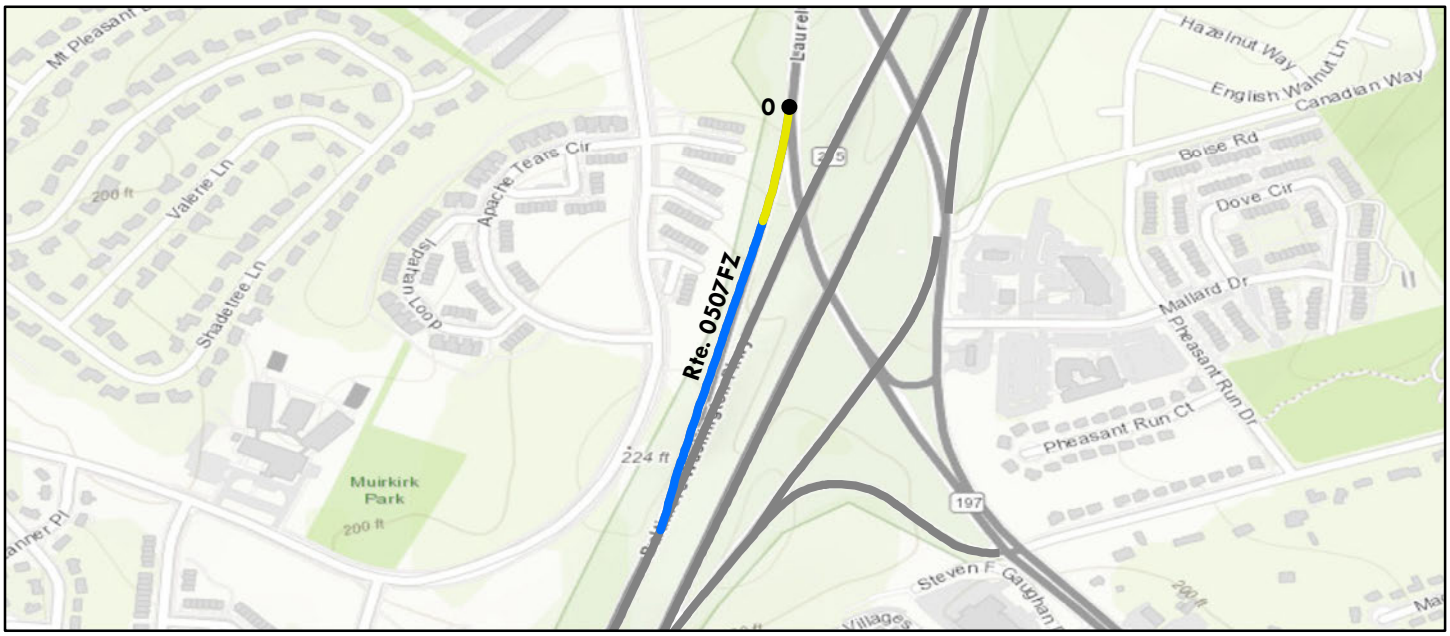
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.21	**Section Length (MI)**	0.21				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	20.9	20.9				
Lane Width (ft)	13.6	13.6				

Baltimore - Washington Parkway

ROUTE 0507FZ: RAMP FROM ROUTE S/B 197 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0507ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

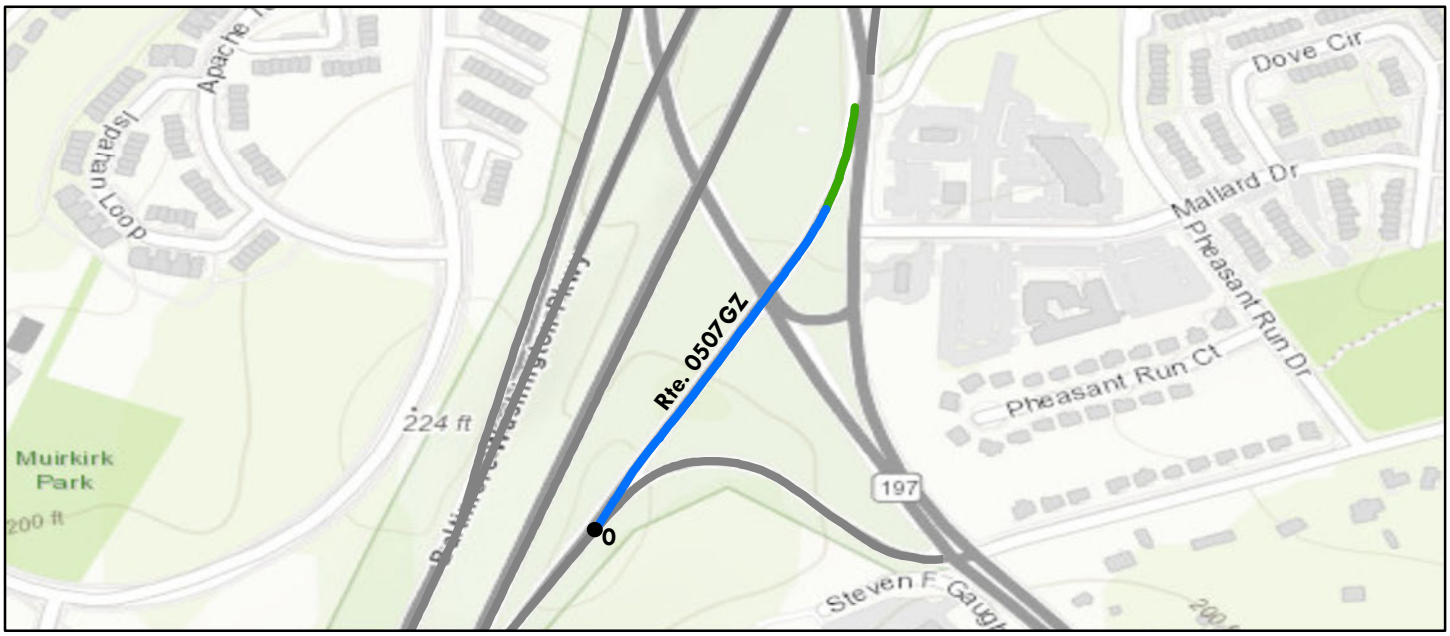
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.35	**Section Length (MI)**	0.35				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	95				
Surface Condition Rating (SCR)	95	95				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	95	95				
Alligator Crack Index	100	100				
Longitudinal Crack Index	95	95				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.4	16.4				
Lane Width (ft)	14.3	14.3				

Baltimore - Washington Parkway

ROUTE 0507GZ: N/B BW PARKWAY RAMP TO N/B ROUTE 197 SPUR

Subcomponent of Route BAWA-0507ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

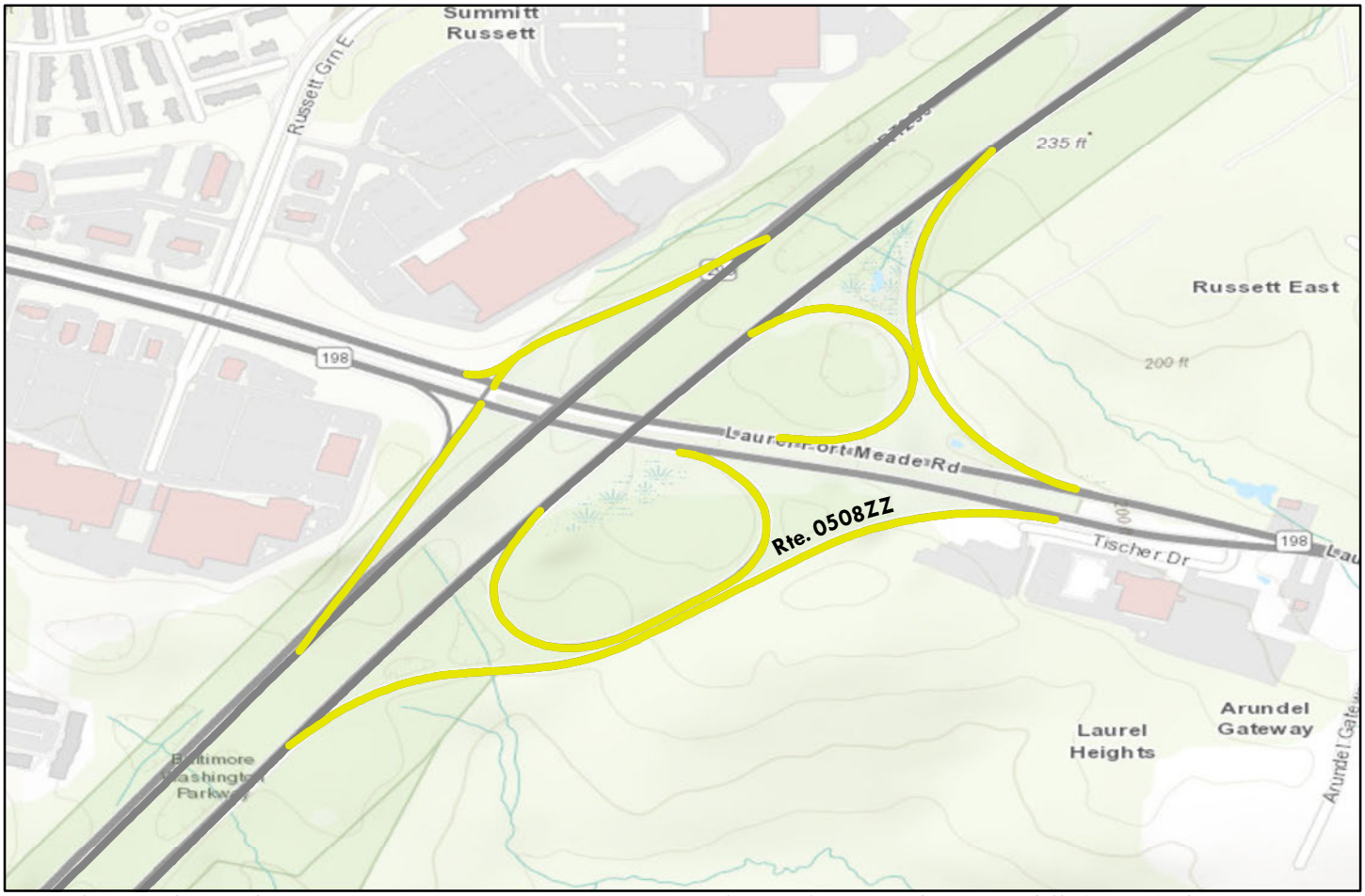
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0					
Paved Length (Miles): 0.26	**Section Length (MI)**	0.26					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	98	98					
Surface Condition Rating (SCR)	98	98					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	98	98					
Alligator Crack Index	100	100					
Longitudinal Crack Index	98	98					
Transverse Cracking Index	100	100					
Patching Index	100	100					
Rutting Index	100	100					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	2	2					
Paved Width (ft)	29.2	29.2					
Lane Width (ft)	13.9	13.9					

Baltimore - Washington Parkway

ROUTE 0508ZZ: LAUREL FORT MEADE ROAD RAMPS (MD HIGHWAY 198 INTERCHANGE)

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/9/2018						
Paved Length (Miles):	1.89						
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		69					
Lane & Width Information							
Number of Lanes		1					
Paved Width (ft)		17.3					
Lane Width (ft)		14.6					

Baltimore - Washington Parkway

ROUTE 0508AZ: N/B BW PARKWAY RAMP TO E/B ROUTE 198

Subcomponent of Route BAWA-0508ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.51	**Section Length (MI)**	0.51				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	86	86				
Surface Condition Rating (SCR)	78	78				
Roughness Condition Index (RCI)	98	98				
Distress Index Values						
Structural Crack Index	78	78				
Alligator Crack Index	100	100				
Longitudinal Crack Index	78	78				
Transverse Cracking Index	86	86				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	119	119				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17.6	17.6				
Lane Width (ft)	14.5	14.5				

Baltimore - Washington Parkway

ROUTE 0508BZ: RAMP FROM W/B ROUTE 198 TO N/B BW PARKWAY

Subcomponent of Route BAWA-0508ZZ

Data Collection Vehicle (DCV) Rating

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

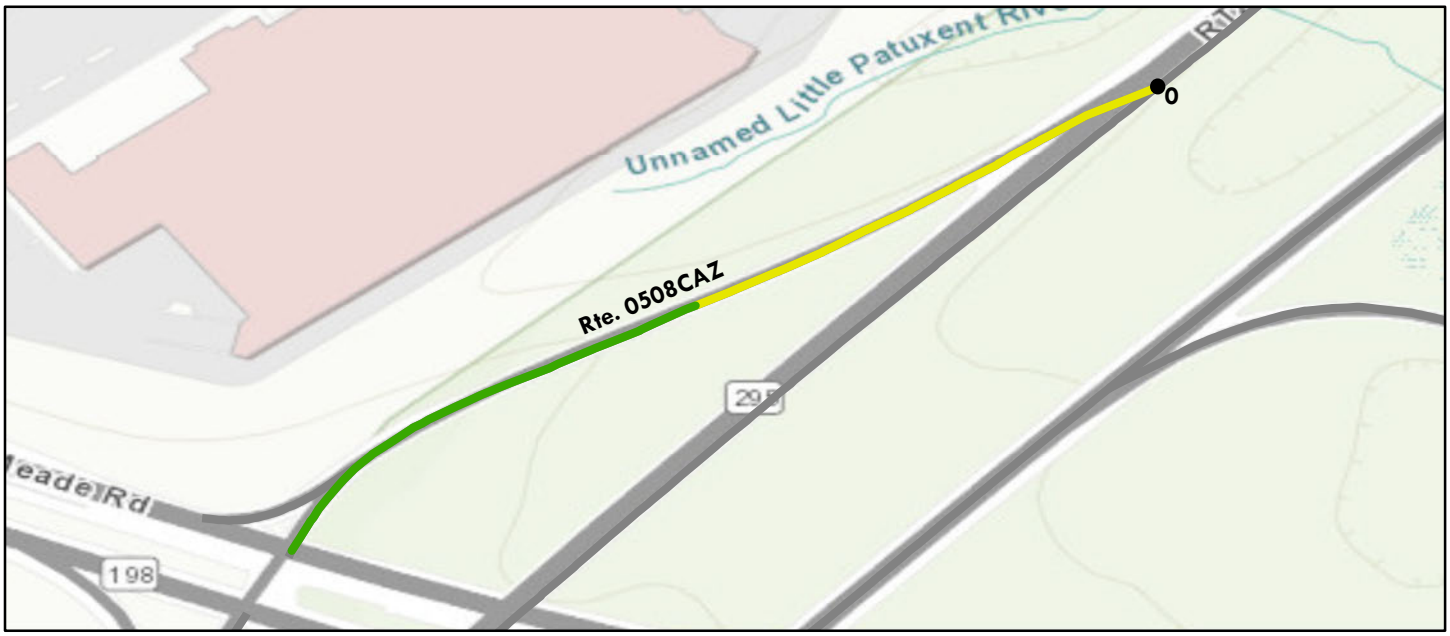
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.32	**Section Length (MI)**	0.32				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	0	0				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	18	18				
Alligator Crack Index	100	100				
Longitudinal Crack Index	18	18				
Transverse Cracking Index	0	0				
Patching Index	94	94				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.8	16.8				
Lane Width (ft)	13.6	13.6				

Baltimore - Washington Parkway

ROUTE 0508CAZ: S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB)

Subcomponent of Route BAWA-0508ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

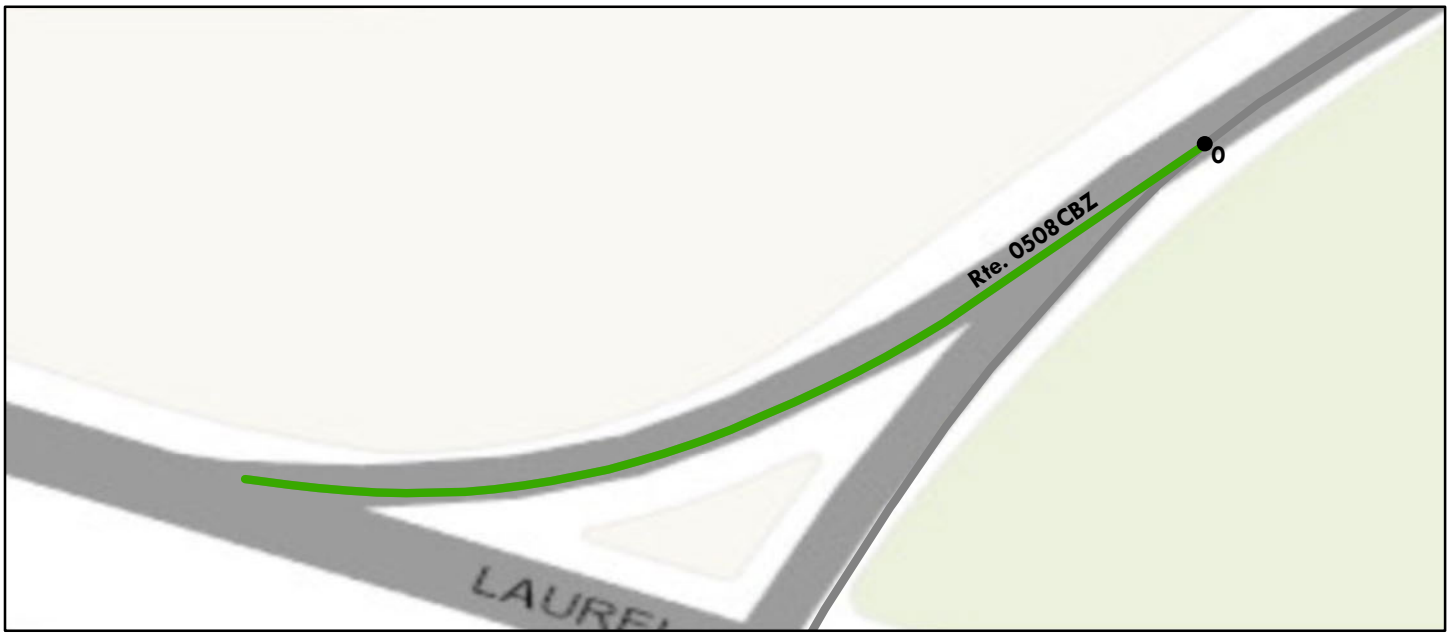
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.2	**Section Length (MI)**	0.2				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	81	81				
Surface Condition Rating (SCR)	81	81				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	81	81				
Alligator Crack Index	100	100				
Longitudinal Crack Index	81	81				
Transverse Cracking Index	95	95				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18.6	18.6				
Lane Width (ft)	16.5	16.5				

Baltimore - Washington Parkway

ROUTE 0508CBZ: S/B BW PARKWAY RAMP TO HIGHWAY 198 (WB)

Subcomponent of Route BAWA-0508ZZ

Data Collection Vehicle (DCV) Rating



Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.03	**Section Length (MI)**	0.03				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	90				
Surface Condition Rating (SCR)	90	90				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	90	90				
Alligator Crack Index	100	100				
Longitudinal Crack Index	90	90				
Transverse Cracking Index	94	94				
Patching Index	100	100				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	19.8	19.8				
Lane Width (ft)	18	18				

Baltimore - Washington Parkway

ROUTE 0508DZ: RAMP FROM ROUTE 198 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0508ZZ

Data Collection Vehicle (DCV) Rating

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

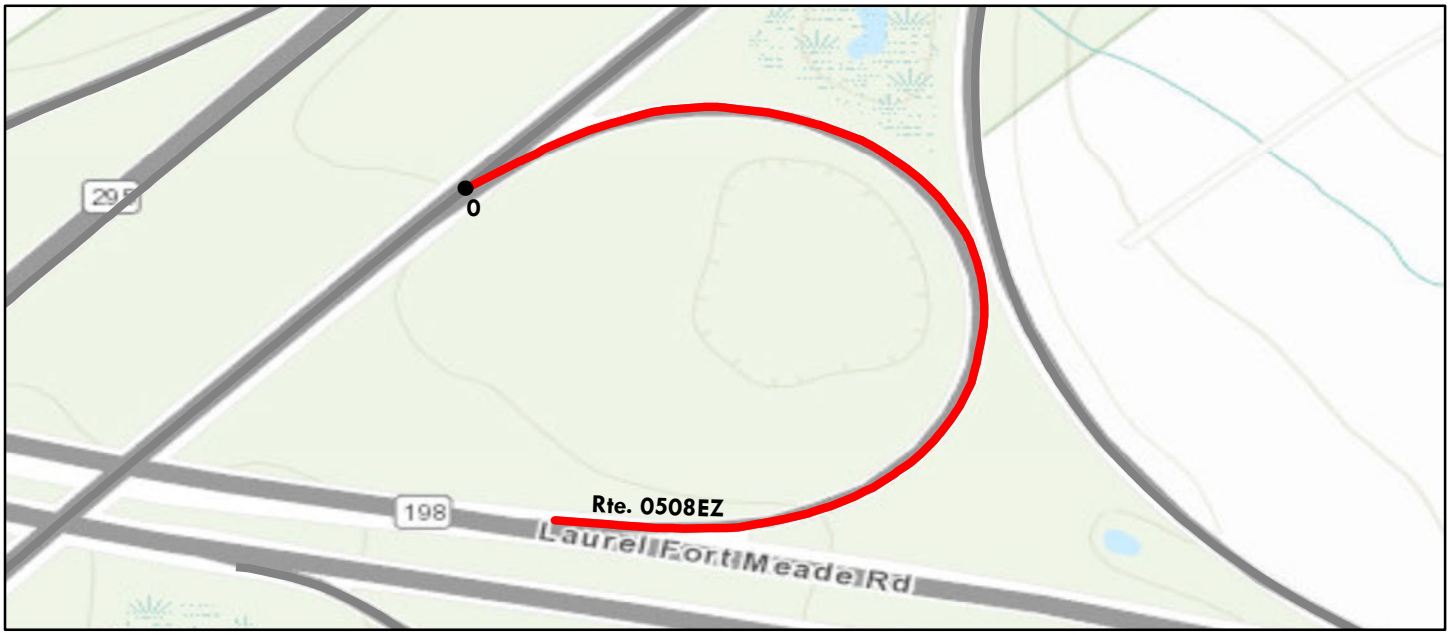
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.21	**Section Length (MI)**	0.21				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.7	16.7				
Lane Width (ft)	14.1	14.1				

Baltimore - Washington Parkway

ROUTE 0508EZ: N/B BW PARKWAY RAMP TO W/B ROUTE 198

Subcomponent of Route BAWA-0508ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

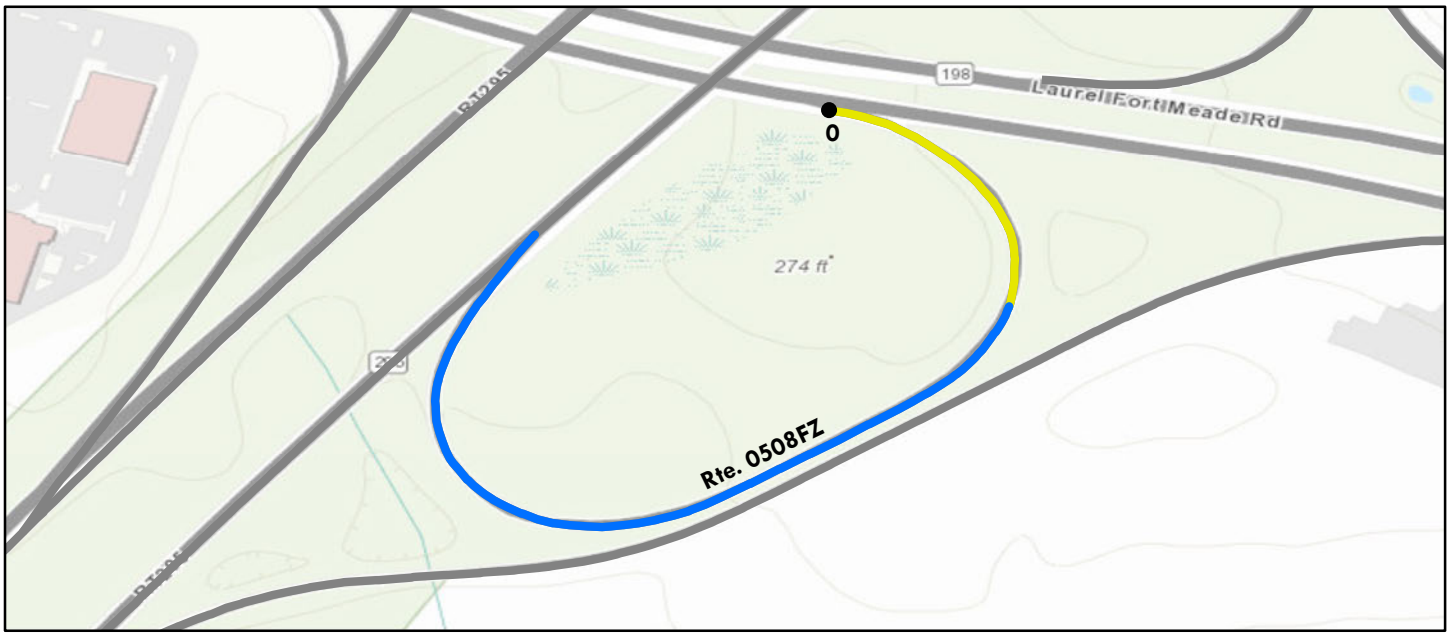
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.24	**Section Length (MI)**	0.24				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	42	42				
Surface Condition Rating (SCR)	42	42				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	42	42				
Alligator Crack Index	99	99				
Longitudinal Crack Index	43	43				
Transverse Cracking Index	67	67				
Patching Index	97	97				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17	17				
Lane Width (ft)	15.3	15.3				

Baltimore - Washington Parkway

ROUTE 0508FZ: RAMP FROM E/B ROUTE 198 TO N/B BW PARKWAY

Subcomponent of Route BAWA-0508ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

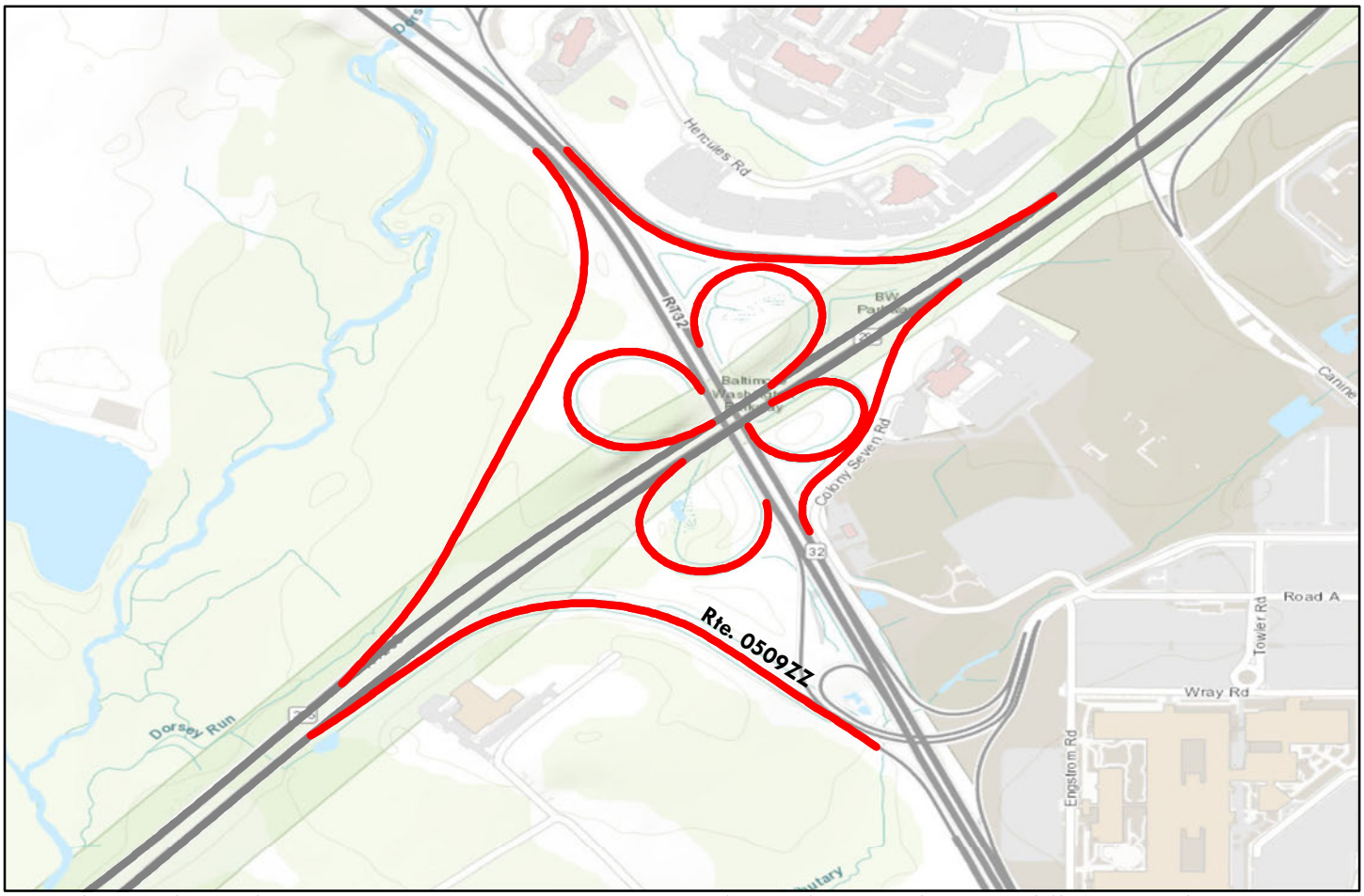
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.38	**Section Length (MI)**	0.38				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	94				
Surface Condition Rating (SCR)	94	94				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	94	94				
Alligator Crack Index	100	100				
Longitudinal Crack Index	94	94				
Transverse Cracking Index	97	97				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17.2	17.2				
Lane Width (ft)	14.2	14.2				

Baltimore - Washington Parkway

ROUTE 0509ZZ: PATUXENT FREEWAY RAMPS (MD HIGHWAY 32 INTERCHANGE)

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/9/2018
Paved Length (Miles):	2.83
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	32
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	20.7
Lane Width (ft)	14.7

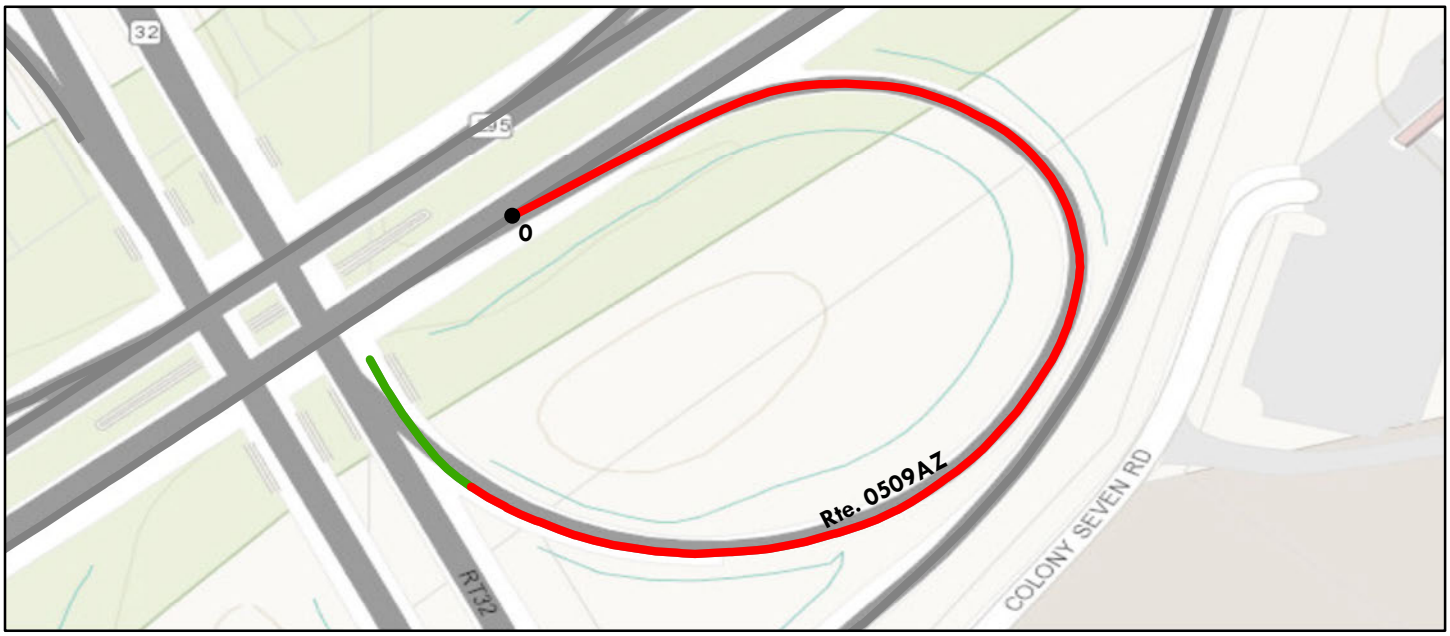
Route Summary

Baltimore - Washington Parkway

ROUTE 0509AZ: N/B BW PARKWAY RAMP TO W/B ROUTE 32

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

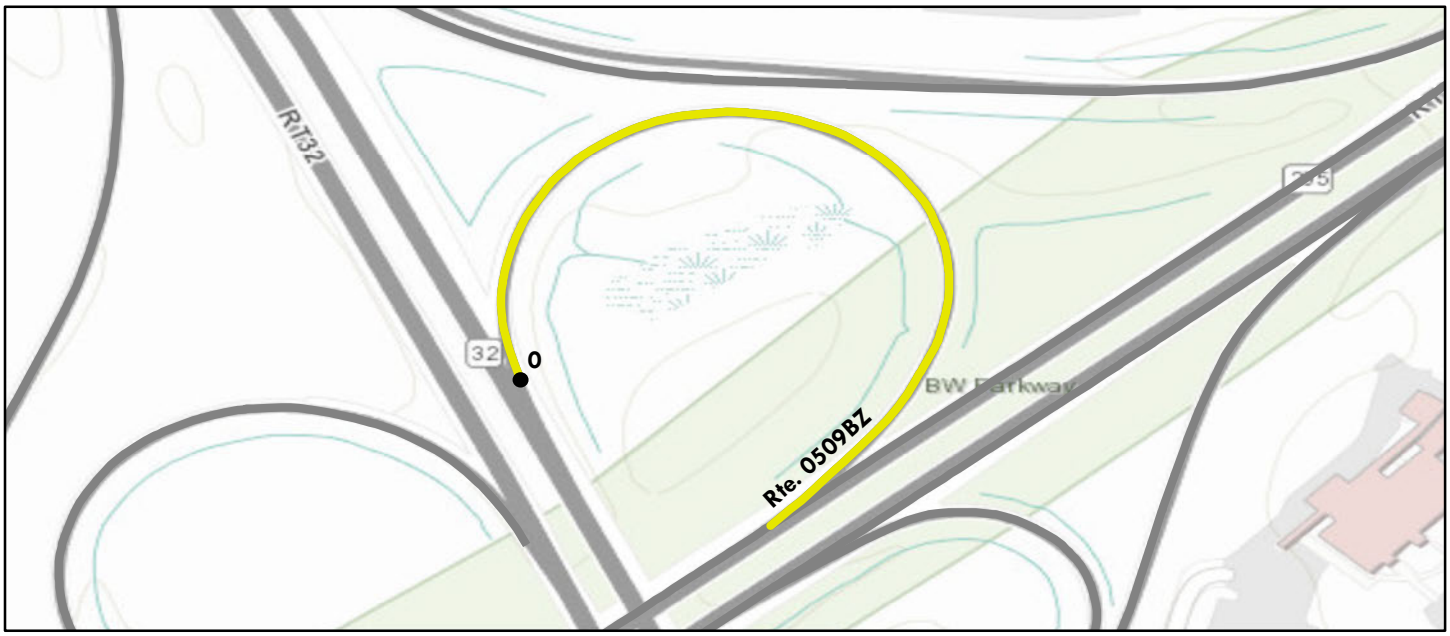
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.22	**Section Length (MI)**	0.22				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	43	43				
Surface Condition Rating (SCR)	43	43				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	43	43				
Alligator Crack Index	100	100				
Longitudinal Crack Index	43	43				
Transverse Cracking Index	57	57				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	20.8	20.8				
Lane Width (ft)	14.5	14.5				

Baltimore - Washington Parkway

ROUTE 0509BZ: RAMP FROM W/B ROUTE 32 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

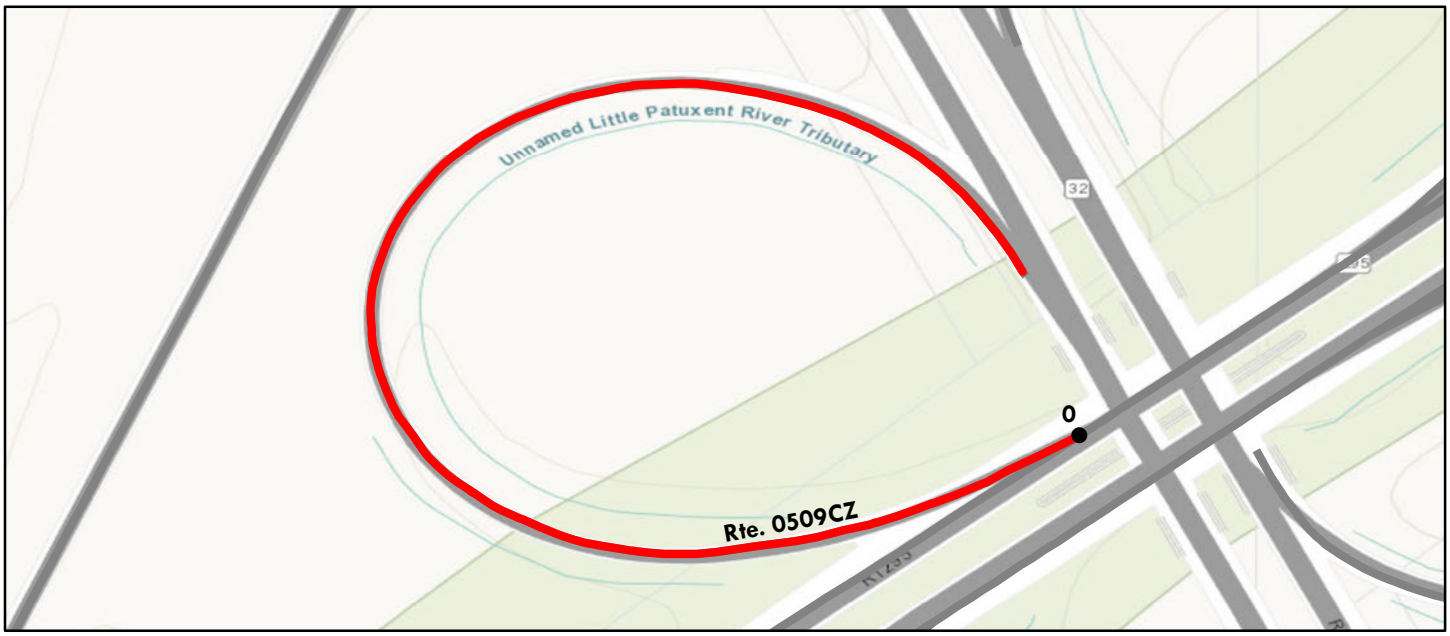
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.26	**Section Length (MI)**	0.26				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	70	70				
Surface Condition Rating (SCR)	70	70				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	70	70				
Alligator Crack Index	99	99				
Longitudinal Crack Index	71	71				
Transverse Cracking Index	74	74				
Patching Index	98	98				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	19.8	19.8				
Lane Width (ft)	17.1	17.1				

Baltimore - Washington Parkway

ROUTE 0509CZ: S/B BW PARKWAY RAMP TO E/B ROUTE 32

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

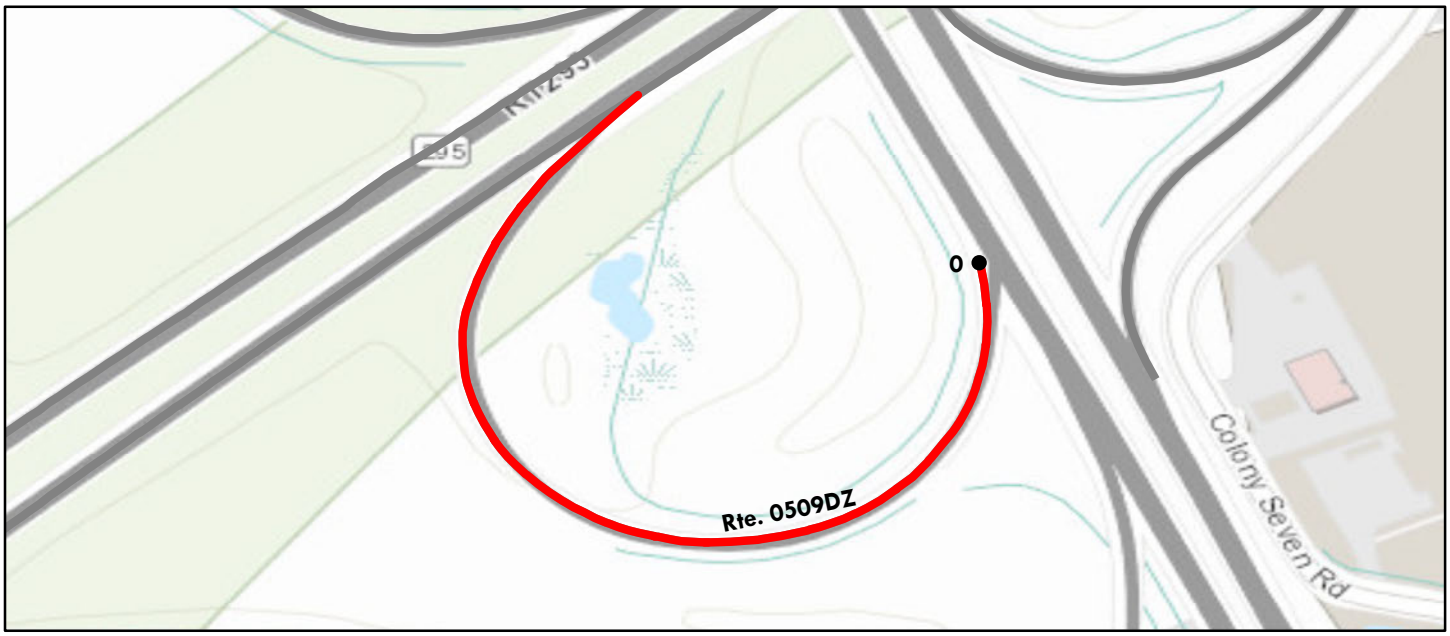
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.29	**Section Length (MI)**	0.29				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	0	0				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	0	0				
Alligator Crack Index	99	99				
Longitudinal Crack Index	0	0				
Transverse Cracking Index	14	14				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18.8	18.8				
Lane Width (ft)	15.6	15.6				

Baltimore - Washington Parkway

ROUTE 0509DZ: RAMP FROM E/B ROUTE 32 TO N/B BW PARKWAY

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

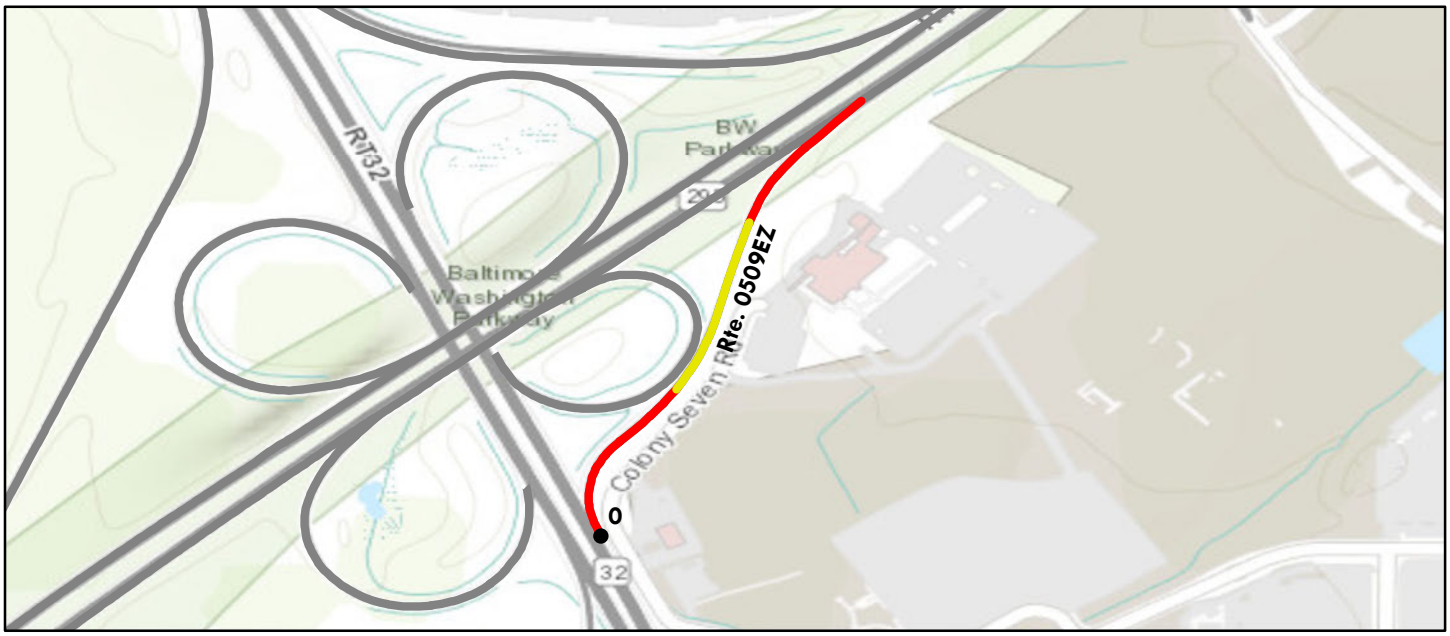
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.24	**Section Length (MI)**	0.24				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	24	24				
Surface Condition Rating (SCR)	24	24				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	24	24				
Alligator Crack Index	100	100				
Longitudinal Crack Index	24	24				
Transverse Cracking Index	31	31				
Patching Index	99	99				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18.6	18.6				
Lane Width (ft)	15.2	15.2				

Baltimore - Washington Parkway

ROUTE 0509EZ: RAMP FROM W/B ROUTE 32 TO N/B BW PARKWAY

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

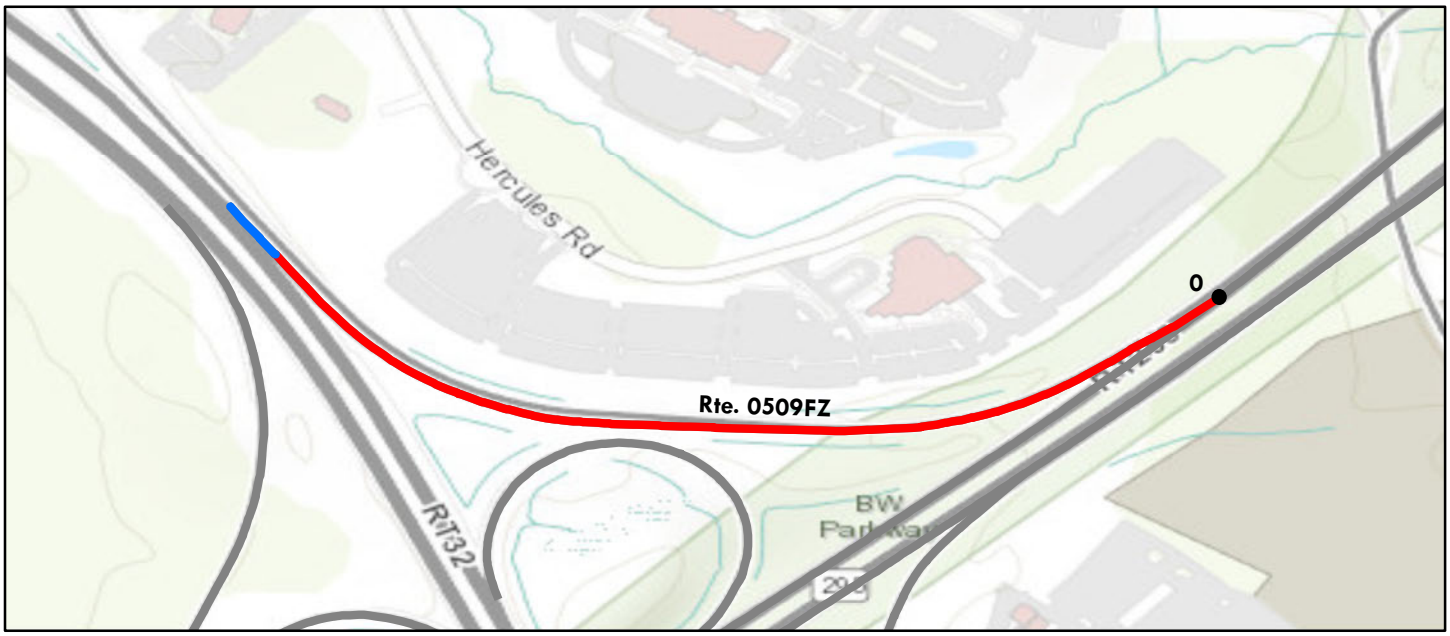
Inspection Date: 6/9/2018	**Beginning Section MP**	0					
Paved Length (Miles): 0.28	**Section Length (MI)**	0.28					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	53	53					
Surface Condition Rating (SCR)	53	53					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	53	53					
Alligator Crack Index	100	100					
Longitudinal Crack Index	53	53					
Transverse Cracking Index	81	81					
Patching Index	100	100					
Rutting Index	99	99					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	18.2	18.2					
Lane Width (ft)	13.4	13.4					

Baltimore - Washington Parkway

ROUTE 0509FZ: S/B BW PARKWAY RAMP TO W/B ROUTE 32

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

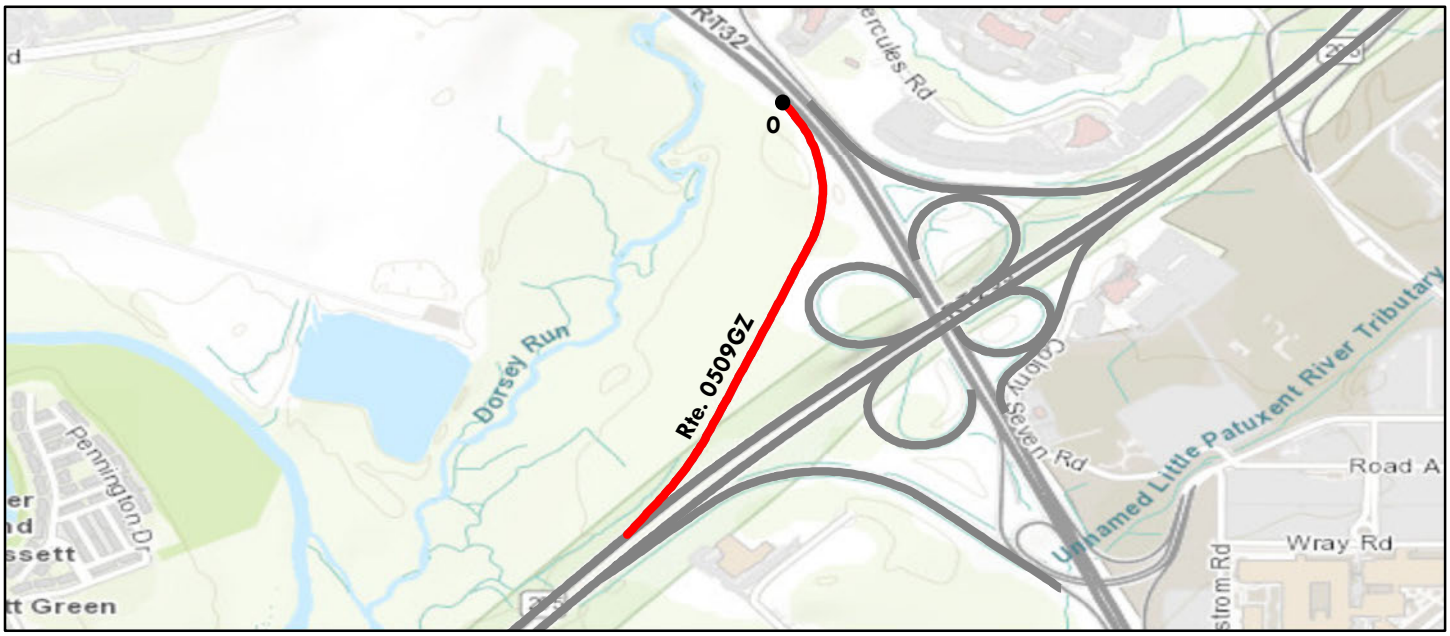
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.43	**Section Length (MI)**	0.43				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	0	0				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	0	0				
Alligator Crack Index	90	90				
Longitudinal Crack Index	0	0				
Transverse Cracking Index	0	0				
Patching Index	98	98				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	20.4	20.4				
Lane Width (ft)	14.3	14.3				

Baltimore - Washington Parkway

ROUTE 0509GZ: RAMP FROM E/B ROUTE 32 TO S/B BW PARKWAY

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

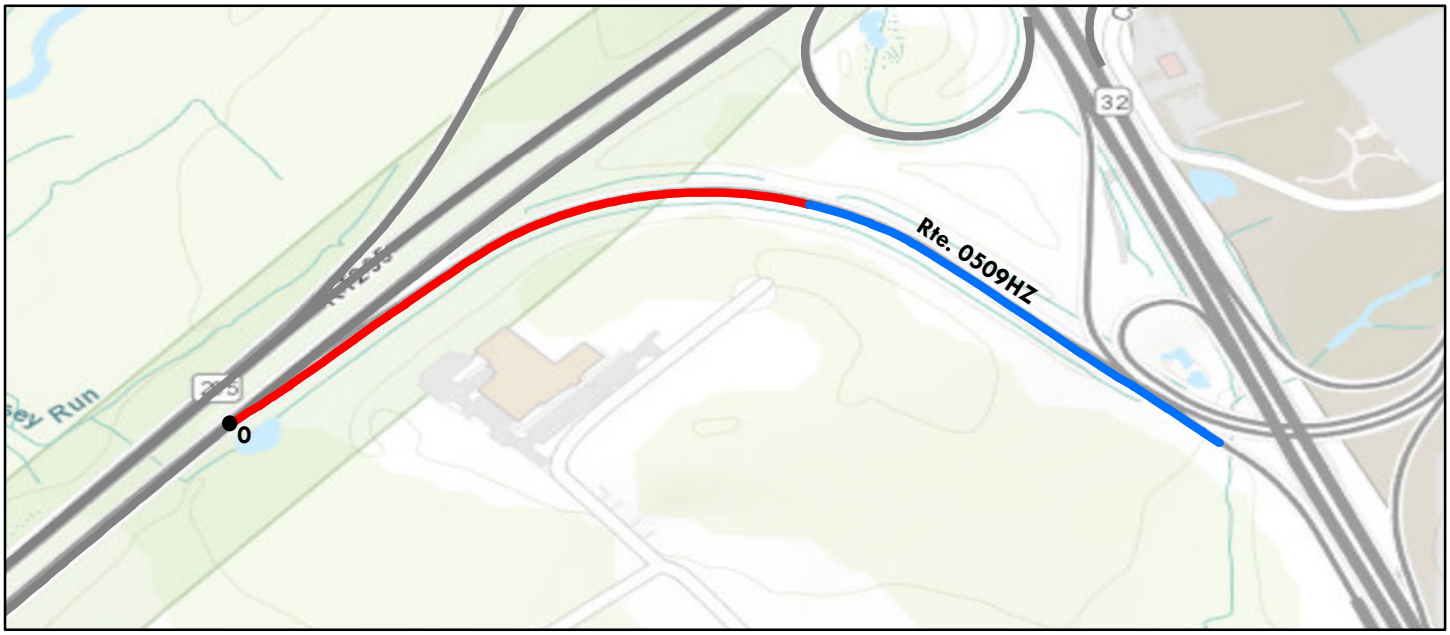
Inspection Date: 6/9/2018	**Beginning Section MP**	0					
Paved Length (Miles): 0.58	**Section Length (MI)**	0.58					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	32	32					
Surface Condition Rating (SCR)	8	8					
Roughness Condition Index (RCI)	68	68					
Distress Index Values							
Structural Crack Index	8	8					
Alligator Crack Index	100	100					
Longitudinal Crack Index	8	8					
Transverse Cracking Index	48	48					
Patching Index	96	96					
Rutting Index	98	98					
International Roughness Index (IRI)	209	209					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	19.6	19.6					
Lane Width (ft)	15	15					

Baltimore - Washington Parkway

ROUTE 0509HZ: N/B BW PARKWAY RAMP TO E/B ROUTE 32

Subcomponent of Route BAWA-0509ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

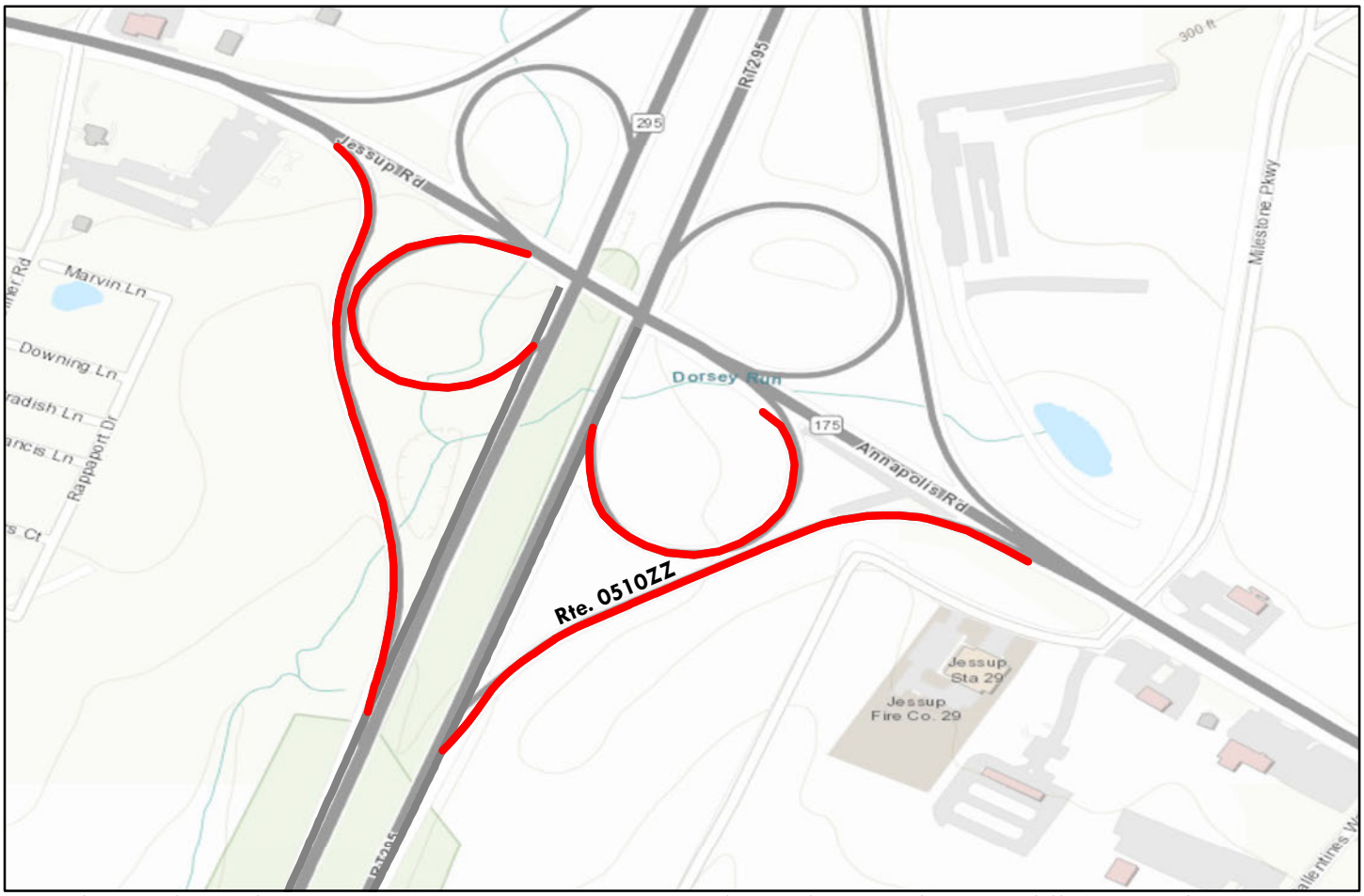
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.53	**Section Length (MI)**	0.53				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	40	40				
Surface Condition Rating (SCR)	0	0				
Roughness Condition Index (RCI)	99	99				
Distress Index Values						
Structural Crack Index	0	0				
Alligator Crack Index	98	98				
Longitudinal Crack Index	0	0				
Transverse Cracking Index	66	66				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	116	116				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	26.1	26.1				
Lane Width (ft)	13.5	13.5				

Baltimore - Washington Parkway

ROUTE 0510ZZ: JESSUP ROAD INTERCHANGE RAMPS (MD HIGHWAY 175 INTERCHANGE)

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

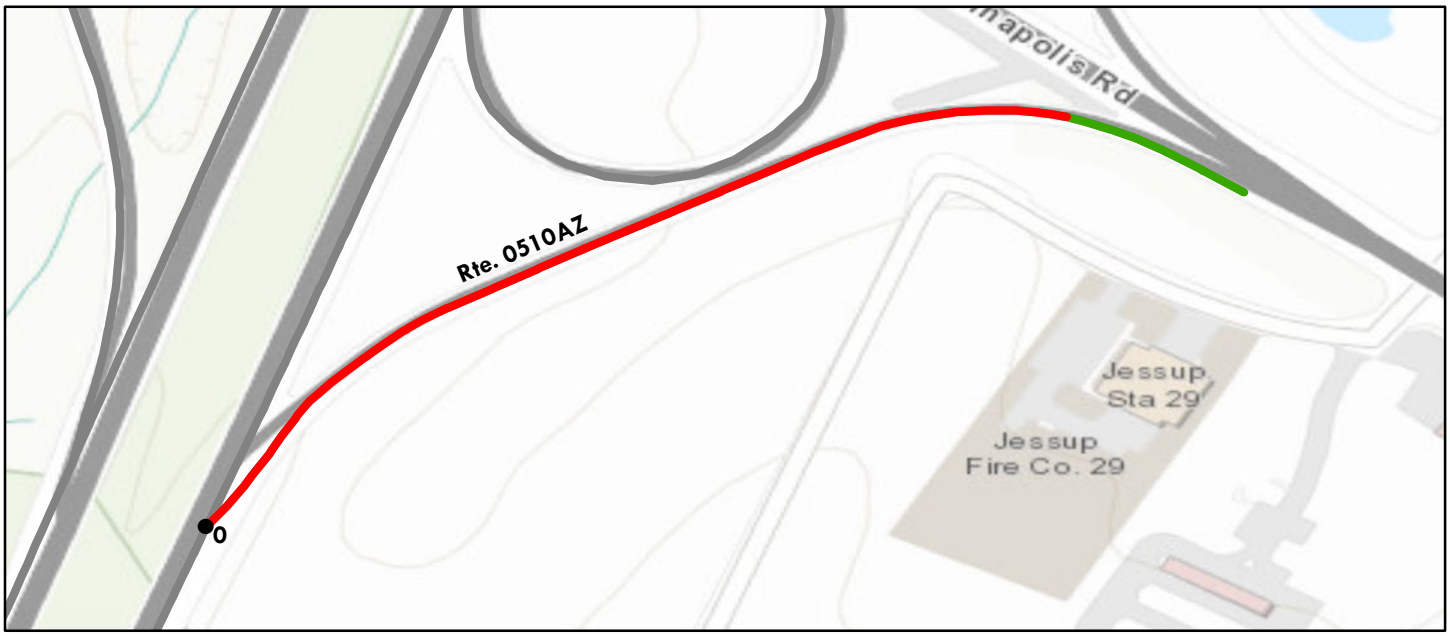
Inspection Date:	6/9/2018
Paved Length (Miles):	0.85
Surface Type:	ASPHALT
Roadway Condition Information	**Route Summary**
Pavement Condition Rating (PCR)	24
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	25.2
Lane Width (ft)	14.6

Baltimore - Washington Parkway

ROUTE 0510AZ: N/B BW PARKWAY RAMP TO MD HIGHWAY 175

Subcomponent of Route BAWA-0510ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.24	**Section Length (MI)**	0.24				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	31	31				
Surface Condition Rating (SCR)	31	31				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	31	31				
Alligator Crack Index	100	100				
Longitudinal Crack Index	31	31				
Transverse Cracking Index	81	81				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	25.2	25.2				
Lane Width (ft)	13.7	13.7				

Note: Route has wide shoulder.

Baltimore - Washington Parkway

ROUTE 0510BZ: S/B BW PARKWAY RAMP FROM MD HIGHWAY 175

Subcomponent of Route BAWA-0510ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

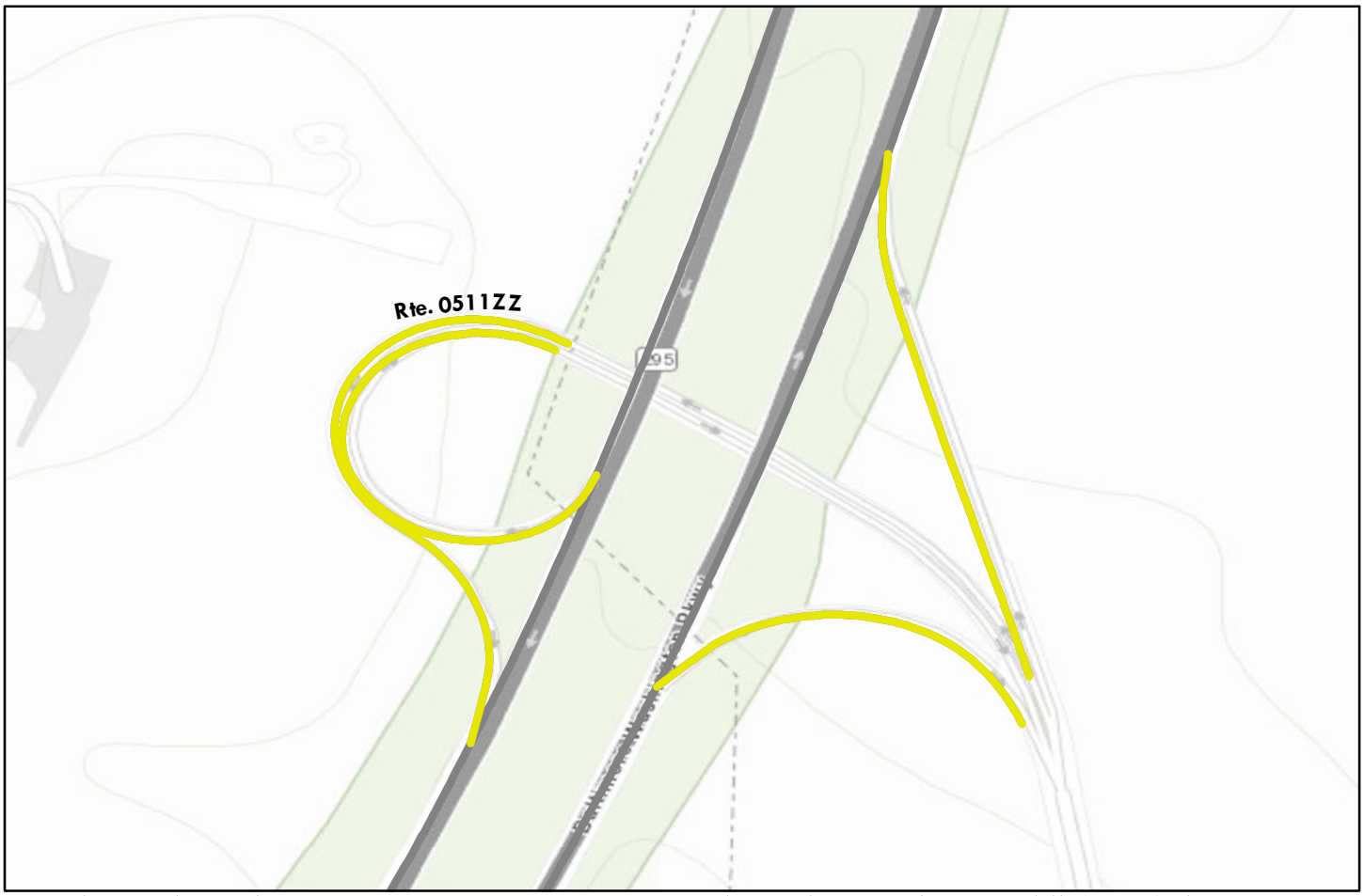
Inspection Date: 6/9/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.25	**Section Length (MI)**	0.25				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	18	18				
Surface Condition Rating (SCR)	18	18				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	18	18				
Alligator Crack Index	99	99				
Longitudinal Crack Index	19	19				
Transverse Cracking Index	46	46				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	25.2	25.2				
Lane Width (ft)	15	15				

Note: Route has wide shoulder.

Baltimore - Washington Parkway

ROUTE 0511ZZ: RAMPS TO NASA GODDARD SPACE FLIGHT CENTER

Summary Route



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/8/2018						
Paved Length (Miles):	0.7						
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		83					
Lane & Width Information							
Number of Lanes		1					
Paved Width (ft)		17.2					
Lane Width (ft)		14.9					

Baltimore - Washington Parkway

ROUTE 0511AZ: N/B BW PARKWAY RAMP TO NASA

Subcomponent of Route BAWA-0511ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

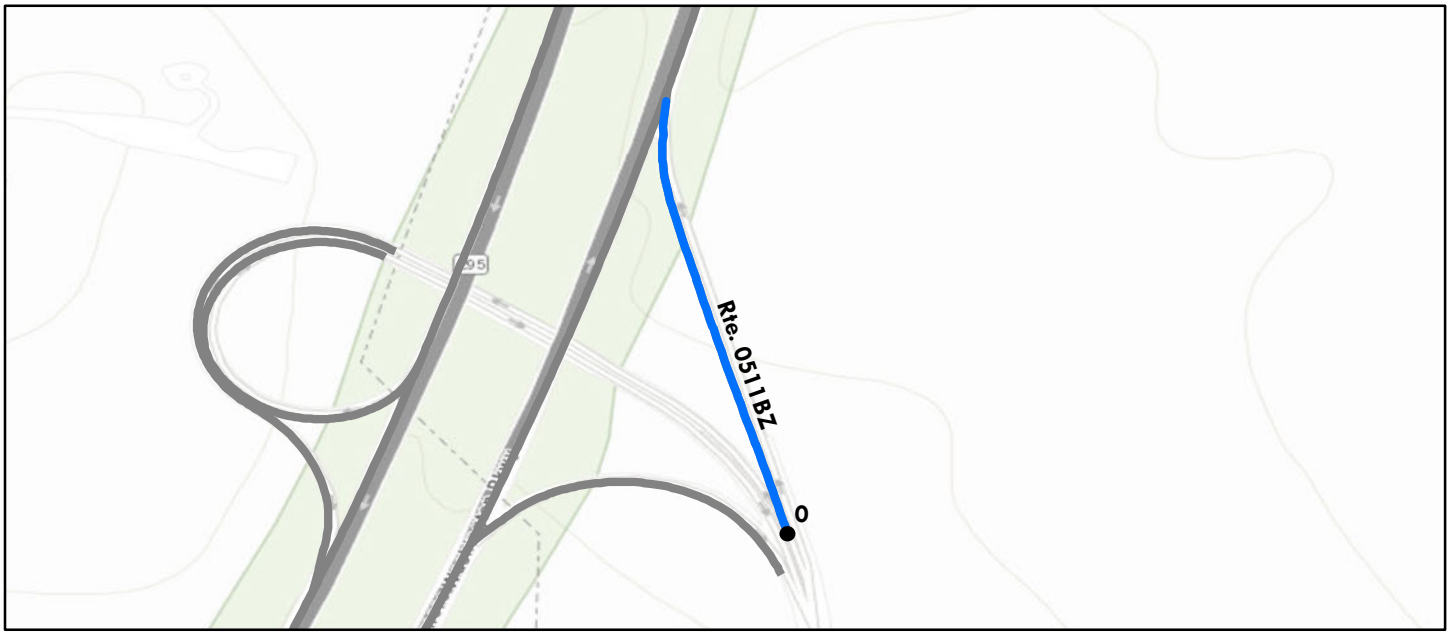
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.13	**Section Length (MI)**	0.13				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	70	70				
Surface Condition Rating (SCR)	70	70				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	70	70				
Alligator Crack Index	100	100				
Longitudinal Crack Index	70	70				
Transverse Cracking Index	92	92				
Patching Index	99	99				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18.2	18.2				
Lane Width (ft)	16.2	16.2				

Baltimore - Washington Parkway

ROUTE 0511BZ: NASA RAMP TO N/B BW PARKWAY

Subcomponent of Route BAWA-0511ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

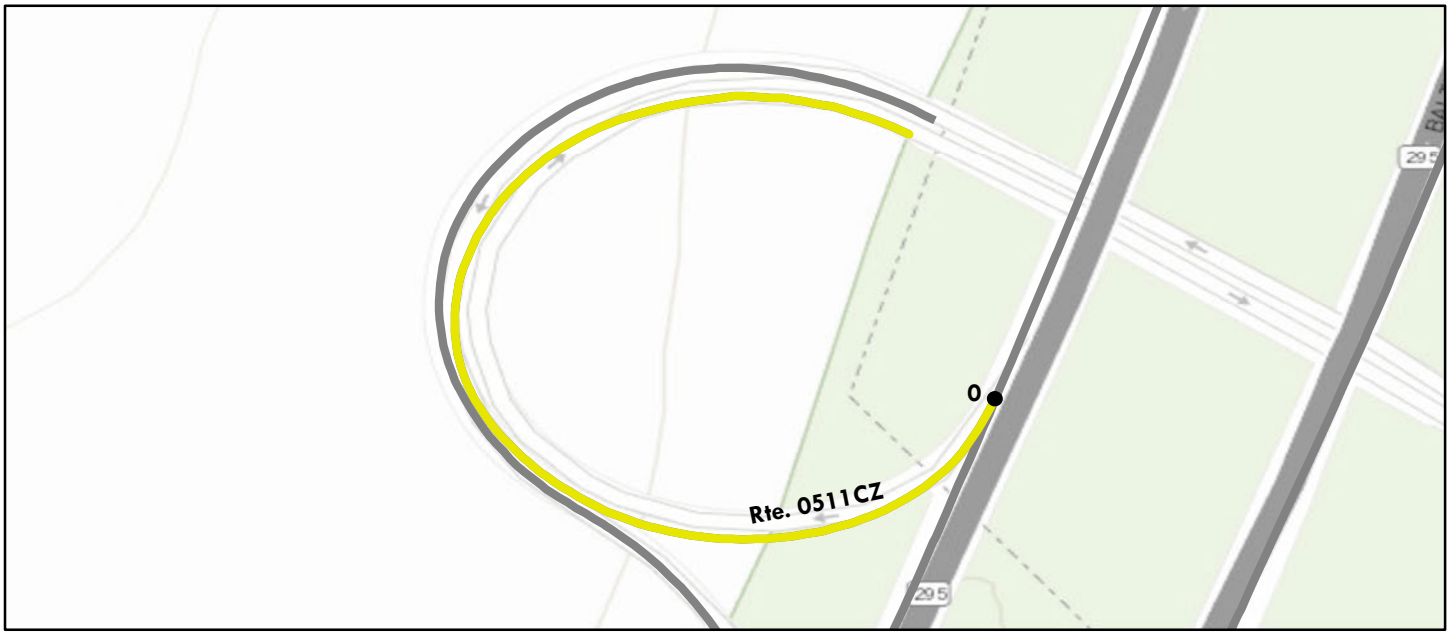
Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.18	**Section Length (MI)**	0.18				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	96	96				
Alligator Crack Index	100	100				
Longitudinal Crack Index	96	96				
Transverse Cracking Index	98	98				
Patching Index	99	99				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.2	15.2				
Lane Width (ft)	14	14				

Baltimore - Washington Parkway

ROUTE 0511CZ: S/B BW PARKWAY RAMP TO NASA

Subcomponent of Route BAWA-0511ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.18	**Section Length (MI)**	0.18				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	76	76				
Surface Condition Rating (SCR)	76	76				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	76	76				
Alligator Crack Index	100	100				
Longitudinal Crack Index	76	76				
Transverse Cracking Index	90	90				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	20	20				
Lane Width (ft)	15.8	15.8				

Baltimore - Washington Parkway

ROUTE 0511DZ: NASA RAMP TO S/B BW PARKWAY

Subcomponent of Route BAWA-0511ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/8/2018	**Beginning Section MP**	0				
Paved Length (Miles): 0.2	**Section Length (MI)**	0.2				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	88	88				
Surface Condition Rating (SCR)	88	88				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	88	88				
Alligator Crack Index	100	100				
Longitudinal Crack Index	88	88				
Transverse Cracking Index	95	95				
Patching Index	99	99				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16	16				
Lane Width (ft)	14.2	14.2				

Section 6
Paved Parking Area Condition Rating Sheets

Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

BAWA: Parking Area Condition Rating Sheets

No Parking Areas existed in this park at the time of data collection. Therefore, in Cycle 6, there is no data to report for this section.

Section 7
Road Milepost Information

Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

Road Milepost Information

This report section contains road milepost information for all paved roads in the park that were collected with the Data Collection Vehicle (DCV). The milepost data is obtained from the DCV by using a distance measuring instrument (DMI) that is calibrated to record mileage to the nearest thousandth of a mile. Park roads that were manually rated did not have milepost data collected, and thus are not included in this report section.

For Cycle 6, the information presented in this section differs from previous RIP cycles in that it does not contain the roadside features inventories for the paved park roads. Some examples of the features previously collected are signs, culverts/drop inlets, guardrails, curbing, pullouts, etc. If the park was collected in a previous RIP cycle, then the latest features data can be obtained by referencing the following:

Where to find the latest Features Inventories for NPS Parks:

- For Small Parks (parks with less than 10 miles of paved roads):
  - Refer to Cycle 5 data (collected 2010 - 2014)
    - Features were reported in Section 9 of the ***Cycle 5*** RIP report
    - Video of features can be viewed using the ***PathViewVO*** program and ***Cycle 5*** data

- For Large Parks (parks with more than 10 miles of paved roads):
  - Refer to Cycle 4 data (collected 2006 - 2009)
    - Features were reported in Section 9 of the ***Cycle 4*** RIP report
    - Video of features can be viewed using the ***VisiData*** program and ***Cycle 4*** data
  - Note: Features inventories were updated in Large Parks in ***Cycle 5*** only on a route by route basis if the route was new or modified in ***Cycle 5***. If this is the case for a particular route, then features for the route can be obtained using the ***PathViewVO*** program and ***Cycle 5*** data (same as above for Small parks).

Milepost Events Verified in Cycle 6

In Cycle 6, the following events were collected and reported in Section 7 of this report:

- Intersections with roads and parking areas
- All bridges and culverts with BIP Numbers (bridge inspection program numbers)
- Mile Marker Signs
- One-Way travel directions
- Overpasses
- Tunnels
- Low Water Crossings (LWCR)
- Surface type changes
- Construction areas where no pavement condition data was obtained

GPS Mileage Matching

A consistent survey milepost and constant route length as recorded by the Data Collection Vehicle (DCV) is a challenge to maintain from one collection cycle to the next. The challenge is due to many factors such as driver characteristics, DMI calibration, tire pressure etc. After Cycle 4 (~2010), a decision was made to hold constant the length of roads so long as there was no physical change from reconstruction projects or realignments that would result in a change to the length of a road. Consequently, the "GPS Mileage Match" was implemented to specify which cycle the route length is being matched. Route mileages and GPS are matched to a previous collection whenever there is no physical change to a route alignment. The route mileage and GPS is not matched to previous cycles whenever it is determined that a road length and GPS needs to be updated. When this happens the GPS and length is updated to the cycle that displays the change, and that collection cycle is used as the matching cycle in subsequent collections of the road. Thus, the Cycle 6 GIS could be either the survey length collected in Cycle 4, Cycle 5, or Cycle 6 and therefore, may not match the survey milepost displayed in the latest Cycle 6 DCV video which is viewable in ***PathView VO***.

The features inventories and road logs collected on NPS routes contain mileposts that are determined from the corresponding cycle that the GPS is matched to. Therefore, the mileposts contained in the Cycle 4 or 5 features inventories or the Cycle 6 road logs may not exactly match the survey milepost collected in the latest Cycle 6 video of the road.

Locating Mile Marker Signs

For routes that have mile marker signs along them, the milepost reported by RIP will most likely not line up exactly with the sign located in the field. This could be happening for many reasons, most likely due to either the error falling within the acceptable calibration range of the vehicle, or the level of accuracy that the mile marker signs were placed in the field.

Because mile marker signs are important features in many project plans and location descriptions, RIP is reporting locations of mile marker signs in three ways in Cycle 6:

1. Mileposts from Cycle 6 GIS: the official RIP milepost taken from the features inventories and the matching GPS/mileage cycle as described above. This is the milepost that should be used on project plans and when finding locations in the field

2. Mileposts from Cycle 6 Video: milepost shown to help locate the mile marker sign in the latest ***PathView VO*** video.

3. Latitude / Longitude: a constant way of locating a mile marker sign so long as the park has not moved the sign

The mileposts from Cycle 6 Video and GIS should be nearly the same, but on longer roads it has been observed that the Video milepost deviates more from the official GIS milepost that comes from the matching cycle.

BAWA: Route Milepost Log

ROUTE 0001: BALTIMORE-WASHINGTON PARKWAY (NB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	STATE BOUNDARY	N/A	LEAVING DISTRICT OF COLUMBIA / ENTERING MARYLAND
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (NEW YORK AVENUE / NON-NPS)
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.19	0.19	INTERSECTION	R	ROUTE 0500AZ (RAMP FROM N/B BW PARKWAY TO E/B U.S. HIGHWAY 50)
0.34	0.34	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
0.46	0.46	INTERSECTION	L	UNPAVED ROUTE
0.49	0.49	OVERPASS	N/A	3230-021 (BW PARKWAY ACCESS BRIDGE)
0.69	0.69	INTERSECTION	R	ROUTE 0501AZ (RAMP FROM N/B KENILWORTH AVENUE TO N/B BW PARKWAY)
0.79	0.79	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
0.86	0.87	BRIDGE	N/A	3230-019 (B&O RAILROAD BRIDGE)
0.95	1.00	BRIDGE	N/A	3230-018 (MD HIGHWAY 201 BRIDGE)
1.70	1.70	INTERSECTION	R	ROUTE 0502AZ (RAMP FROM N/B BW PARKWAY TO ROUTE 202)
1.80	1.80	INTERSECTION	R	ROUTE 0502BZ (RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY)
1.83	1.85	BRIDGE	N/A	3230-017 (MD HIGHWAY 202 BRIDGE)
1.97	1.97	INTERSECTION	R	ROUTE 0503AZ (N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450)
2.14	2.14	OVERPASS	N/A	3230-016 (MD HIGHWAY 450 BRIDGE)
2.33	2.33	INTERSECTION	R	ROUTE 0503EZ (RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY)
3.60	3.60	INTERSECTION	R	ROUTE 0504AZ (N/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410))
3.79	3.82	BRIDGE	N/A	3230-015 (MD HIGHWAY 410 BRIDGE #1)
3.96	3.96	INTERSECTION	R	ROUTE 0504CZ (RAMP FROM RIVERDALE ROAD (RT. 410) TO N/B BW PARKWAY)
4.65	4.65	OVERPASS	N/A	3230-014 (GOOD LUCK ROAD BRIDGE)
4.89	4.89	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
5.89	5.89	INTERSECTION	R	PAVED ROUTE (I-95 I-495 (SOUTH) INTERCHANGE EXIT RAMP / NON-NPS)

Data Collected on 6/2018

BAWA: Route Milepost Log

ROUTE 0001: BALTIMORE-WASHINGTON PARKWAY (NB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
6.08	6.08	INTERSECTION	R	PAVED ROUTE (I-95 I-495 (SOUTH) INTERCHANGE ENTRANCE RAMP / NON-NPS)
6.14	6.15	BRIDGE	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
6.19	6.19	INTERSECTION	R	PAVED ROUTE (I-95 I-495 (NORTH) INTERCHANGE EXIT RAMP / NON NPS)
6.40	6.40	INTERSECTION	R	PAVED ROUTE (I-95 I-495 (NORTH) INTERCHANGE ENTRANCE RAMP / NON-NPS)
6.51	6.51	OVERPASS	N/A	3230-013 (MD HIGHWAY 193 BRIDGE)
6.68	6.68	INTERSECTION	R	ROUTE 0505AAZ (N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB))
6.81	6.81	INTERSECTION	R	ROUTE 0505BAZ (RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY)
7.06	7.06	OVERPASS	N/A	3230-027 (PEDESTRIAN BRIDGE)
7.58	7.58	CULVERT	N/A	3230-029 (BEAVERDAM CREEK CULVERT #2)
7.72	7.72	INTERSECTION	R	ROUTE 0511AZ (N/B BW PARKWAY RAMP TO NASA)
7.80	7.80	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
7.92	7.92	INTERSECTION	R	ROUTE 0511BZ (NASA RAMP TO N/B BW PARKWAY)
8.13	8.13	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
8.78	8.79	BRIDGE	N/A	3230-011 (BEAVERDAM ROAD BRIDGE)
9.59	9.59	INTERSECTION	R	ROUTE 0506AZ (N/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212))
9.78	9.79	BRIDGE	N/A	3230-009 (MD HIGHWAY 212 BRIDGE)
9.99	9.99	INTERSECTION	R	ROUTE 0506CZ (RAMP FROM POWDER MILL ROAD (ROUTE 212) TO N/B BW PARKWAY)
10.65	10.65	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
11.16	11.16	INTERSECTION	R	ROUTE 0507AZ (N/B BW PARKWAY RAMP TO S/B ROUTE 197)
11.46	11.53	BRIDGE	N/A	3230-035 (MD HIGHWAY 197 BRIDGE #2)
11.61	11.64	BRIDGE	N/A	3230-037 (MD HIGHWAY 197 BRIDGE #4)
11.81	11.81	INTERSECTION	R	ROUTE 0507CZ (RAMP FROM ROUTE 197 TO N/B BW PARKWAY)
12.45	12.52	BRIDGE	N/A	3230-001 (BIG PATUXENT RIVER BRIDGE)
14.23	14.23	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)

Data Collected on 6/2018

BAWA: Route Milepost Log

ROUTE 0001: BALTIMORE-WASHINGTON PARKWAY (NB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.66	14.66	INTERSECTION	R	ROUTE 0508AZ (N/B BW PARKWAY RAMP TO E/B ROUTE 198)
14.88	14.88	INTERSECTION	R	ROUTE 0508FZ (RAMP FROM E/B ROUTE 198 TO N/B BW PARKWAY)
14.97	14.97	OVERPASS	N/A	3230-006 (MD HIGHWAY 198 BRIDGE #1)
14.98	14.98	OVERPASS	N/A	3230-030 (MD HIGHWAY 198 BRIDGE #3)
15.09	15.09	INTERSECTION	R	ROUTE 0508EZ (N/B BW PARKWAY RAMP TO W/B ROUTE 198)
15.27	15.27	INTERSECTION	R	ROUTE 0508BZ (RAMP FROM W/B ROUTE 198 TO N/B BW PARKWAY)
15.94	16.01	BRIDGE	N/A	3230-003 (LITTLE PATUXENT RIVER BRIDGE - NORTHBOUND)
16.28	16.28	INTERSECTION	R	ROUTE 0509HZ (N/B BW PARKWAY RAMP TO E/B ROUTE 32)
16.66	16.66	INTERSECTION	R	ROUTE 0509DZ (RAMP FROM E/B ROUTE 32 TO N/B BW PARKWAY)
16.72	16.72	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
16.73	16.73	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
16.78	16.78	INTERSECTION	R	ROUTE 0509AZ (N/B BW PARKWAY RAMP TO W/B ROUTE 32)
16.94	16.94	INTERSECTION	R	ROUTE 0509EZ (RAMP FROM W/B ROUTE 32 TO N/B BW PARKWAY)
17.14	17.14	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
17.37	17.37	INTERSECTION	R	PAVED ROUTE (CARINA ROAD ENTRANCE RAMP / NON-NPS)
18.45	18.45	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
18.92	18.92	ONE-WAY END	N/A	N/A
18.92	18.92	INTERSECTION	N/A	PAVED ROUTE (BALTIMORE WASHINGTON PARKWAY / NON-NPS)

BAWA: Route Milepost Log

ROUTE 0002: BALTIMORE-WASHINGTON PARKWAY (SB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (BALTIMORE WASHINGTON PARKWAY / NON-NPS)
0.21	0.21	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
1.23	1.23	INTERSECTION	R	PAVED ROUTE (CARINA ROAD ENTRANCE RAMP / NON-NPS)
1.50	1.50	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
1.61	1.61	INTERSECTION	R	ROUTE 0509FZ (S/B BW PARKWAY RAMP TO W/B ROUTE 32)
1.86	1.86	INTERSECTION	R	ROUTE 0509BZ (RAMP FROM W/B ROUTE 32 TO S/B BW PARKWAY)
1.91	1.91	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
1.93	1.93	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
1.95	1.95	INTERSECTION	R	ROUTE 0509CZ (S/B BW PARKWAY RAMP TO E/B ROUTE 32)
2.32	2.32	INTERSECTION	R	ROUTE 0509GZ (RAMP FROM E/B ROUTE 32 TO S/B BW PARKWAY)
2.64	2.71	BRIDGE	N/A	3230-004 (LITTLE PATUXENT RIVER BRIDGE - SOUTHBOUND)
3.53	3.53	INTERSECTION	R	ROUTE 0508CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB))
3.70	3.70	OVERPASS	N/A	3230-031 (MD HIGHWAY 198 BRIDGE #4)
3.71	3.71	OVERPASS	N/A	3230-024 (MD HIGHWAY 198 BRIDGE #2)
3.93	3.93	INTERSECTION	R	ROUTE 0508DZ (RAMP FROM ROUTE 198 TO S/B BW PARKWAY)
4.43	4.43	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
6.14	6.21	BRIDGE	N/A	3230-001 (BIG PATUXENT RIVER BRIDGE)
6.65	6.65	INTERSECTION	R	ROUTE 0507EZ (S/B BW PARKWAY RAMP TO ROUTE 197)
6.84	6.84	INTERSECTION	R	ROUTE 0507DZ (RAMP FROM ROUTE 197 N/B TO S/B BW PARKWAY)
6.98	7.01	BRIDGE	N/A	3230-038 (MD HIGHWAY 197 BRIDGE #5)
7.12	7.15	BRIDGE	N/A	3230-036 (MD HIGHWAY 197 BRIDGE #3)
7.39	7.39	INTERSECTION	R	ROUTE 0507FZ (RAMP FROM ROUTE S/B 197 TO S/B BW PARKWAY)

Data Collected on 6/2018

BAWA: Route Milepost Log

ROUTE 0002: BALTIMORE-WASHINGTON PARKWAY (SB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
8.00	8.00	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
8.67	8.67	INTERSECTION	R	ROUTE 0506BZ (S/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212))
8.88	8.89	BRIDGE	N/A	3230-009 (MD HIGHWAY 212 BRIDGE)
9.08	9.08	INTERSECTION	R	ROUTE 0506DZ (RAMP FROM POWDER MILL ROAD (ROUTE 212) TO S/B BW PARKWAY)
9.86	9.87	BRIDGE	N/A	3230-011 (BEAVERDAM ROAD BRIDGE)
10.53	10.53	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
11.10	11.10	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
11.10	11.10	INTERSECTION	R	ROUTE 0511CZ (S/B BW PARKWAY RAMP TO NASA)
11.23	11.23	INTERSECTION	R	ROUTE 0511DZ (NASA RAMP TO S/B BW PARKWAY)
11.24	11.24	CULVERT	N/A	3230-028 (BEAVERDAM CREEK CULVERT #1)
11.84	11.84	OVERPASS	N/A	3230-027 (PEDESTRIAN BRIDGE)
11.93	11.93	INTERSECTION	R	ROUTE 0505CZ (S/B BW PARKWAY RAMP TO SOUTHWAY)
12.10	12.10	INTERSECTION	R	ROUTE 0505DAZ (RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY)
12.13	12.13	OVERPASS	N/A	3230-013 (MD HIGHWAY 193 BRIDGE)
12.27	12.27	INTERSECTION	R	PAVED ROUTE (I-95 I-495 (NORTH) INTERCHANGE EXIT RAMP / NON NPS)
12.43	12.43	INTERSECTION	R	PAVED ROUTE (I-95 I-495 (NORTH) INTERCHANGE ENTRANCE RAMP / NON NPS)
12.47	12.48	BRIDGE	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE
12.53	12.53	INTERSECTION	R	PAVED ROUTE (I 95 I495 (SOUTH) INTERCHANGE EXIT RAMP / NON NPS)
12.72	12.72	INTERSECTION	R	PAVED ROUTE (I-95 I-495 (SOUTH) INTERCHANGE ENTRANCE RAMP / NON NPS)
13.76	13.76	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
14.01	14.01	OVERPASS	N/A	3230-014 (GOOD LUCK ROAD BRIDGE)
14.70	14.70	INTERSECTION	R	ROUTE 0504BZ (S/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410))
14.86	14.88	BRIDGE	N/A	3230-026 (MD HIGHWAY 410 BRIDGE #2)
15.04	15.04	INTERSECTION	R	ROUTE 0504DZ (RAMP FROM RIVERDALE ROAD (RT. 410) TO S/B BW PARKWAY)

Data Collected on 6/2018

BAWA: Route Milepost Log

ROUTE 0002: BALTIMORE-WASHINGTON PARKWAY (SB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
16.34	16.34	INTERSECTION	R	ROUTE 0503CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB))
16.51	16.51	INTERSECTION	R	ROUTE 0503DAZ (RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY)
16.52	16.52	OVERPASS	N/A	3230-016 (MD HIGHWAY 450 BRIDGE)
16.67	16.67	INTERSECTION	R	ROUTE 0502DZ (S/B BW PARKWAY RAMP TO ROUTE 202)
16.78	16.78	INTERSECTION	R	ROUTE 0502CZ (RAMP FROM ROUTE 202 TO S/B BW PARKWAY)
16.82	16.84	BRIDGE	N/A	3230-017 (MD HIGHWAY 202 BRIDGE)
17.66	17.69	BRIDGE	N/A	3230-018 (MD HIGHWAY 201 BRIDGE)
17.79	17.80	BRIDGE	N/A	3230-019 (B&O RAILROAD BRIDGE)
17.88	17.88	INTERSECTION	L	PAVED ROUTE (EMERGENCY VEHICLE TURN AROUND)
17.92	17.92	INTERSECTION	L	ROUTE 0501BZ (BW PARKWAY S/B RAMP TO S/B 295)
18.06	18.06	INTERSECTION	L	UNPAVED ROUTE
18.10	18.10	INTERSECTION	R	ROUTE 0501CZ (RAMP FROM S/B KENILWORTH AVENUE TO S/B BW PARKWAY)
18.49	18.49	INTERSECTION	L	ROUTE 0500BZ (RAMP FROM W/B U.S. HIGHWAY 50 TO S/B BW PARKWAY)
18.89	18.89	STATE BOUNDARY	N/A	LEAVING MARYLAND / ENTERING DISTRICT OF COLUMBIA
18.89	18.89	ONE-WAY END	N/A	N/A
18.89	18.89	INTERSECTION	N/A	PAVED ROUTE (NEW YORK AVENUE / NON-NPS)

BAWA: Route Milepost Log

ROUTE 0003: SPRINGFIELD ROAD WEST

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.29	0.29	CULVERT	N/A	N/A
0.44	0.44	INTERSECTION	N/A	PAVED ROUTE (SPRINGFIELD ROAD / NON-NPS)
0.44	0.44	PARK BOUNDARY	N/A	N/A

ROUTE 0500AZ: RAMP FROM N/B BW PARKWAY TO E/B U.S. HIGHWAY 50

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.11	0.11	INTERSECTION	N/A	PAVED ROUTE (U.S. HIGHWAY 50 / NON NPS)
0.11	0.11	ONE-WAY END	N/A	N/A

ROUTE 0500BZ: RAMP FROM W/B U.S. HIGHWAY 50 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (US ROUTE 50 WESTBOUND / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.08	0.08	ONE-WAY END	N/A	N/A
0.08	0.08	INTERSECTION	R	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.08	0.08	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

BAWA: Route Milepost Log

ROUTE 0501AZ: RAMP FROM N/B KENILWORTH AVENUE TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (KENWORTH AVENUE (N/B) / NON NPS)
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.00	0.00	ONE-WAY START	N/A	N/A
0.01	0.06	BRIDGE	N/A	3230-020 (ROUTE 201 ACCESS RAMP BRIDGE - NORTHBOUND)
0.16	0.16	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.16	0.16	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.16	0.16	ONE-WAY END	N/A	N/A

ROUTE 0501BZ: BW PARKWAY S/B RAMP TO S/B 295

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.24	0.25	BRIDGE	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (I-40 BRIDGE)
0.33	0.33	INTERSECTION	R	ROUTE 5000 (W/B U.S. HIGHWAY 50 RAMP TO S/B INTERSTATE 295 (I-295))
0.33	0.33	INTERSECTION	N/A	PAVED ROUTE (KENWORTH AVENUE (S/B) / NON NPS)
0.33	0.33	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0501CZ: RAMP FROM S/B KENILWORTH AVENUE TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	PAVED PARKING (SHELL GAS STATION / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (KENILWORTH AVENUE / NON-NPS)
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (KENILWORTH AVENUE / NON-NPS)
0.21	0.22	BRIDGE	N/A	3230-019 (B&O RAILROAD BRIDGE)
0.52	0.52	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.52	0.52	ONE-WAY END	N/A	N/A
0.52	0.52	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

ROUTE 0502AZ: RAMP FROM N/B BW PARKWAY TO ROUTE 202

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.05	0.05	INTERSECTION	L	ROUTE 0502BZ (RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY)
0.05	0.05	INTERSECTION	R	ROUTE 0502BZ (RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY)
0.19	0.19	ONE-WAY END	N/A	N/A
0.19	0.19	INTERSECTION	L	PAVED ROUTE (LANDOVER ROAD / NON-NPS)
0.19	0.19	INTERSECTION	R	PAVED ROUTE (LANDOVER ROAD / NON-NPS)

BAWA: Route Milepost Log

ROUTE 0502BZ: RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE(HOSPITAL DRIVE / NON-NPS)
0.07	0.07	INTERSECTION	L	ROUTE 0502AZ (RAMP FROM N/B BW PARKWAY TO ROUTE 202)
0.07	0.07	INTERSECTION	R	ROUTE 0502AZ (RAMP FROM N/B BW PARKWAY TO ROUTE 202)
0.07	0.07	INTERSECTION	R	ROUTE 0502EZ (RAMP FROM ROUTE 202 TO RAMP FROM HOSPITAL DRIVE)
0.07	0.07	ONE-WAY START	N/A	N/A
0.08	0.08	INTERSECTION	R	ROUTE 0502EZ (RAMP FROM ROUTE 202 TO RAMP FROM HOSPITAL DRIVE)
0.16	0.16	ONE-WAY END	N/A	N/A
0.16	0.16	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.16	0.16	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))

ROUTE 0502CZ: RAMP FROM ROUTE 202 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	PAVED ROUTE (LANDOVER ROAD / NON-NPS)
0.00	0.00	INTERSECTION	R	PAVED ROUTE (LANDOVER ROAD / NON-NPS)
0.12	0.12	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.12	0.12	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.12	0.12	ONE-WAY END	N/A	N/A

ROUTE 0502DZ: S/B BW PARKWAY RAMP TO ROUTE 202

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.16	0.16	INTERSECTION	L	PAVED ROUTE (LANDOVER ROAD / NON-NPS)
0.16	0.16	INTERSECTION	R	PAVED ROUTE (LANDOVER ROAD / NON-NPS)
0.16	0.16	ONE-WAY END	N/A	N/A

ROUTE 0502EZ: RAMP FROM ROUTE 202 TO RAMP FROM HOSPITAL DRIVE

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	PAVED ROUTE (LANDOVER ROAD / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (LANDOVER ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.01	0.01	INTERSECTION	R	PAVED ROUTE (LANDOVER ROAD / NON-NPS) SPUR
0.12	0.12	INTERSECTION	L	ROUTE 0502EZ (RAMP FROM ROUTE 202 TO RAMP FROM HOSPITAL DRIVE) SPUR
0.13	0.13	INTERSECTION	L	ROUTE 0502BZ (RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY)
0.13	0.13	INTERSECTION	R	ROUTE 0502BZ (RAMP FROM HOSPITAL DRIVE TO N/B BW PARKWAY)
0.13	0.13	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0503AZ: N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.16	0.16	INTERSECTION	R	ROUTE 0503BZ (N/B BW PARKWAY RAMP TO E/B MD HIGHWAY 450 SPUR)
0.20	0.20	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)
0.20	0.20	ONE-WAY END	N/A	N/A
0.20	0.20	INTERSECTION	R	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)

ROUTE 0503BZ: N/B BW PARKWAY RAMP TO E/B MD HIGHWAY 450 SPUR

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0503AZ (N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450)
0.00	0.00	INTERSECTION	N/A	ROUTE 0503AZ (N/B BW PARKWAY N/B RAMP TO W/B MD HIGHWAY 450)
0.08	0.08	INTERSECTION	N/A	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)
0.08	0.08	ONE-WAY END	N/A	N/A
0.08	0.08	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)

BAWA: Route Milepost Log

ROUTE 0503CAZ: S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.22	0.22	ONE-WAY END	N/A	N/A
0.22	0.22	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD EASTBOUND AND WESTBOUND / NON-NPS)

ROUTE 0503CBZ: S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (WB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0503CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB))
0.00	0.00	INTERSECTION	L	ROUTE 0503CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 450 (EB AND WB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.03	0.03	INTERSECTION	N/A	PAVED ROUTE (ANNAPOLIS ROAD / NON NPS)
0.03	0.03	ONE-WAY END	N/A	N/A
0.03	0.03	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD / NON NPS)

BAWA: Route Milepost Log

ROUTE 0503DAZ: RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD WESTBOUND / NON NPS)
0.20	0.20	ONE-WAY END	N/A	N/A
0.20	0.20	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

ROUTE 0503DBZ: RAMP FROM E/B AND W/B MD HIGHWAY 450 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD / NON NPS)
0.00	0.00	INTERSECTION	R	PAVED ROUTE (ANNAPOLIS ROAD / NON NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.03	0.03	ONE-WAY END	N/A	N/A
0.03	0.03	INTERSECTION	R	ROUTE 0503DAZ (RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY)
0.03	0.03	INTERSECTION	N/A	ROUTE 0503DAZ (RAMP FROM W/B MD HIGHWAY 450 TO S/B BW PARKWAY)

BAWA: Route Milepost Log

ROUTE 0503EZ: RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)
0.04	0.04	INTERSECTION	R	ROUTE 0503FZ (RAMP FROM W/B MD HIGHWAY 450 TO N/B BW PARKWAY SPUR)
0.15	0.15	ONE-WAY END	N/A	N/A
0.15	0.15	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.15	0.15	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))

ROUTE 0503FZ: RAMP FROM W/B MD HIGHWAY 450 TO N/B BW PARKWAY SPUR

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (ANNAPOLIS ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.06	0.06	ONE-WAY END	N/A	N/A
0.06	0.06	INTERSECTION	L	ROUTE 0503EZ (RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY)
0.06	0.06	INTERSECTION	N/A	ROUTE 0503EZ (RAMP FROM E/B MD HIGHWAY 450 TO N/B BW PARKWAY)

BAWA: Route Milepost Log

ROUTE 0504AZ: N/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.21	0.21	INTERSECTION	L	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.21	0.21	INTERSECTION	R	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.21	0.21	ONE-WAY END	N/A	N/A

ROUTE 0504BZ: S/B BW PARKWAY RAMP TO RIVERDALE ROAD (RT. 410)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.18	0.18	INTERSECTION	R	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.18	0.18	INTERSECTION	L	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.18	0.18	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0504CZ: RAMP FROM RIVERDALE ROAD (RT. 410) TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.14	0.14	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.14	0.14	ONE-WAY END	N/A	N/A
0.14	0.14	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))

ROUTE 0504DZ: RAMP FROM RIVERDALE ROAD (RT. 410) TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.00	0.00	INTERSECTION	R	PAVED ROUTE (RIVERDALE ROAD / NON-NPS)
0.15	0.15	ONE-WAY END	N/A	N/A
0.15	0.15	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.15	0.15	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

BAWA: Route Milepost Log

ROUTE 0505AAZ: N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.27	0.27	ONE-WAY END	N/A	N/A
0.27	0.27	INTERSECTION	L	PAVED ROUTE (GREENBELT ROAD WESTBOUND / NON NPS)

ROUTE 0505ABZ: N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0505AAZ (N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB))
0.00	0.00	INTERSECTION	R	ROUTE 0505AAZ (N/B BW PARKWAY RAMP TO GREENBELT ROAD (MD HIGHWAY 193) (WB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.04	0.04	ONE-WAY END	N/A	N/A
0.04	0.04	INTERSECTION	L	PAVED ROUTE (GREENBELT ROAD / NON NPS)
0.04	0.04	INTERSECTION	R	PAVED ROUTE (GREENBELT ROAD / NON NPS)

ROUTE 0505BAZ: RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (GREENBELT ROAD WESTBOUND / NON NPS)
0.19	0.19	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.19	0.19	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0505BBZ: RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) (EB AND WB) TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	PAVED ROUTE (GREENBELT ROAD / NON NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (GREENBELT ROAD / NON NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.02	0.02	INTERSECTION	R	ROUTE 0505BAZ (RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY)
0.02	0.02	ONE-WAY END	N/A	N/A
0.02	0.02	INTERSECTION	N/A	ROUTE 0505BAZ (RAMP FROM GREENBELT ROAD (MD HIGHWAY 193) TO N/B BW PARKWAY)

ROUTE 0505CZ: S/B BW PARKWAY RAMP TO SOUTHWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.14	0.14	INTERSECTION	R	ROUTE 0505CZ (S/B BW PARKWAY RAMP TO SOUTHWAY) SPUR
0.15	0.15	INTERSECTION	L	PAVED ROUTE (SOUTHWAY ROAD / NON-NPS)
0.15	0.15	INTERSECTION	R	PAVED ROUTE (SOUTHWAY ROAD / NON-NPS)
0.15	0.15	ONE-WAY END	N/A	N/A

ROUTE 0505DAZ: RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (SOUTHWAY ROAD / NON NPS)
0.12	0.12	ONE-WAY END	N/A	N/A
0.12	0.12	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

Data Collected on 6/2018

BAWA: Route Milepost Log

ROUTE 0505DBZ: RAMP FROM SOUTHWAY TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (SOUTHWAY ROAD / NON NPS)
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (SOUTHWAY ROAD / NON NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.03	0.03	INTERSECTION	N/A	ROUTE 0505DAZ (RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY)
0.03	0.03	ONE-WAY END	N/A	N/A
0.03	0.03	INTERSECTION	L	ROUTE 0505DAZ (RAMP FROM SOUTHWAY (EB AND WB) TO S/B BW PARKWAY)

ROUTE 0506AZ: N/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.22	0.22	INTERSECTION	N/A	ROUTE 0506CZ (RAMP FROM POWDER MILL ROAD (ROUTE 212) TO N/B BW PARKWAY)
0.22	0.22	ONE-WAY END	N/A	N/A
0.22	0.22	INTERSECTION	R	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.22	0.22	INTERSECTION	L	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)

BAWA: Route Milepost Log

ROUTE 0506BZ: S/B BW PARKWAY RAMP TO POWDER MILL ROAD (ROUTE 212)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.26	0.26	INTERSECTION	L	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.26	0.26	INTERSECTION	N/A	ROUTE 0506DZ (RAMP FROM POWDER MILL ROAD (ROUTE 212) TO S/B BW PARKWAY)
0.26	0.26	ONE-WAY END	N/A	N/A
0.26	0.26	INTERSECTION	R	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)

ROUTE 0506CZ: RAMP FROM POWDER MILL ROAD (ROUTE 212) TO N/B BW PKWY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.00	0.00	INTERSECTION	R	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.22	0.22	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.22	0.22	ONE-WAY END	N/A	N/A
0.22	0.22	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))

ROUTE 0506DZ: RAMP FROM POWDER MILL ROAD (ROUTE 212) TO S/B BW PKWY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.00	0.00	INTERSECTION	R	PAVED ROUTE (POWDER MILL ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.18	0.18	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.18	0.18	ONE-WAY END	N/A	N/A
0.18	0.18	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

Data Collected on 6/2018

BAWA: Route Milepost Log

ROUTE 0507AZ: N/B BW PARKWAY RAMP TO S/B ROUTE 197

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.14	0.14	INTERSECTION	L	ROUTE 0507GZ (N/B BW PARKWAY RAMP TO N/B ROUTE 197 SPUR)
0.31	0.31	INTERSECTION	L	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.31	0.31	INTERSECTION	N/A	PAVED ROUTE (SNOWDEN ROAD / NON-NPS)
0.31	0.31	ONE-WAY END	N/A	N/A
0.31	0.31	INTERSECTION	R	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)

ROUTE 0507CZ: RAMP FROM ROUTE 197 TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.26	0.26	ONE-WAY END	N/A	N/A
0.26	0.26	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.26	0.26	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))

ROUTE 0507DZ: RAMP FROM ROUTE 197 N/B TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.23	0.23	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.23	0.23	ONE-WAY END	N/A	N/A
0.23	0.23	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

BAWA: Route Milepost Log

ROUTE 0507EZ: S/B BW PARKWAY RAMP TO ROUTE 197

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.19	0.19	INTERSECTION	R	ROUTE 0507EZ (S/B BW PARKWAY RAMP TO ROUTE 197) SPUR
0.21	0.21	INTERSECTION	R	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.21	0.21	ONE-WAY END	N/A	N/A
0.21	0.21	INTERSECTION	L	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)

ROUTE 0507FZ: RAMP FROM ROUTE S/B 197 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.35	0.35	ONE-WAY END	N/A	N/A
0.35	0.35	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.35	0.35	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

ROUTE 0507GZ: N/B BW PARKWAY RAMP TO N/B ROUTE 197 SPUR

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0507AZ (N/B BW PARKWAY RAMP TO S/B ROUTE 197)
0.00	0.00	INTERSECTION	R	ROUTE 0507AZ (N/B BW PARKWAY RAMP TO S/B ROUTE 197)
0.00	0.00	ONE-WAY START	N/A	N/A
0.13	0.15	BRIDGE	N/A	3230-034 (MD HIGHWAY 197 BRIDGE #1)
0.26	0.26	ONE-WAY END	N/A	N/A
0.26	0.26	INTERSECTION	N/A	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)
0.26	0.26	INTERSECTION	R	PAVED ROUTE (LAUREL-BOWIE ROAD / NON-NPS)

Data Collected on 6/2018

BAWA: Route Milepost Log

ROUTE 0508AZ: N/B BW PARKWAY RAMP TO E/B ROUTE 198

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.51	0.51	ONE-WAY END	N/A	N/A
0.51	0.51	INTERSECTION	L	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.51	0.51	INTERSECTION	N/A	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)

ROUTE 0508BZ: RAMP FROM W/B ROUTE 198 TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.32	0.32	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.32	0.32	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.32	0.32	ONE-WAY END	N/A	N/A

ROUTE 0508CAZ: S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.20	0.20	INTERSECTION	L	PAVED ROUTE (ANNAPOLIS ROAD EASTBOUND AND WESTBOUND / NON NPS)
0.20	0.20	ONE-WAY END	N/A	N/A

ROUTE 0508CBZ: S/B BW PARKWAY RAMP TO HIGHWAY 198 (WB)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0508CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0508CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB))
0.03	0.03	ONE-WAY END	N/A	N/A
0.03	0.03	INTERSECTION	N/A	PAVED ROUTE (FORT MEADE ROAD / NON NPS)
0.03	0.03	INTERSECTION	L	PAVED ROUTE (FORT MEADE ROAD / NON NPS)

ROUTE 0508DZ: RAMP FROM ROUTE 198 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.00	0.00	INTERSECTION	N/A	ROUTE 0508CAZ (S/B BW PARKWAY RAMP TO MD HIGHWAY 198 (EB AND WB))
0.00	0.00	INTERSECTION	R	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.03	0.03	INTERSECTION	R	ROUTE 0508DZ (RAMP FROM ROUTE 198 TO S/B BW PARKWAY) SPUR
0.21	0.21	ONE-WAY END	N/A	N/A
0.21	0.21	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.21	0.21	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

BAWA: Route Milepost Log

ROUTE 0508EZ: N/B BW PARKWAY RAMP TO W/B ROUTE 198

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.24	0.24	ONE-WAY END	N/A	N/A
0.24	0.24	INTERSECTION	N/A	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.24	0.24	INTERSECTION	L	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)

ROUTE 0508FZ: RAMP FROM E/B ROUTE 198 TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (FORT MEADE ROAD / NON-NPS)
0.01	0.01	INTERSECTION	R	UNPAVED ROUTE
0.38	0.38	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.38	0.38	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.38	0.38	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0509AZ: N/B BW PARKWAY RAMP TO W/B ROUTE 32

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.22	0.22	ONE-WAY END	N/A	N/A
0.22	0.22	INTERSECTION	L	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.22	0.22	INTERSECTION	N/A	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)

ROUTE 0509BZ: RAMP FROM W/B ROUTE 32 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.26	0.26	ONE-WAY END	N/A	N/A
0.26	0.26	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.26	0.26	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))

ROUTE 0509CZ: S/B BW PARKWAY RAMP TO E/B ROUTE 32

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.29	0.29	INTERSECTION	L	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.29	0.29	INTERSECTION	N/A	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.29	0.29	ONE-WAY END	N/A	N/A

Data Collected on 6/2018

ROUTE 0509DZ: RAMP FROM E/B ROUTE 32 TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.04	0.04	INTERSECTION	L	UNPAVED ROUTE
0.24	0.24	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.24	0.24	ONE-WAY END	N/A	N/A
0.24	0.24	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))

ROUTE 0509EZ: RAMP FROM W/B ROUTE 32 TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.28	0.28	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.28	0.28	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.28	0.28	ONE-WAY END	N/A	N/A

ROUTE 0509FZ: S/B BW PARKWAY RAMP TO W/B ROUTE 32

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.24	0.24	INTERSECTION	R	PAVED ROUTE (NATIONAL BUSINESS PARKWAY EXIT / NON-NPS)
0.43	0.43	INTERSECTION	L	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.43	0.43	INTERSECTION	N/A	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.43	0.43	ONE-WAY END	N/A	N/A

Data Collected on 6/2018

ROUTE 0509GZ: RAMP FROM E/B ROUTE 32 TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (PATUXENT FREEWAY / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.58	0.58	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.58	0.58	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.58	0.58	ONE-WAY END	N/A	N/A

ROUTE 0509HZ: N/B BW PARKWAY RAMP TO E/B ROUTE 32

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.48	0.48	INTERSECTION	L	PAVED ROUTE (RAMP FROM PATUXENT FREEWAY / NON NPS)
0.49	0.49	INTERSECTION	L	PAVED ROUTE (CANINE ROAD / NON-NPS)
0.53	0.53	INTERSECTION	N/A	PAVED ROUTE (RAMP TO PATUXENT FREEWAY / NON-NPS)
0.53	0.53	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0510AZ: N/B BW PARKWAY RAMP TO MD HIGHWAY 175

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.24	0.24	ONE-WAY END	N/A	N/A
0.24	0.24	INTERSECTION	L	PAVED ROUTE (JESSUP ROAD / NON-NPS)
0.24	0.24	INTERSECTION	N/A	PAVED ROUTE (JESSUP ROAD / NON-NPS)

ROUTE 0510BZ: S/B BW PARKWAY RAMP FROM MD HIGHWAY 175

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (JESSUP ROAD / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	PAVED ROUTE (JESSUP ROAD / NON-NPS)
0.25	0.25	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.25	0.25	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.25	0.25	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0511AZ: N/B BW PARKWAY RAMP TO NASA

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.13	0.13	INTERSECTION	N/A	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.13	0.13	INTERSECTION	L	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.13	0.13	ONE-WAY END	N/A	N/A

ROUTE 0511BZ: NASA RAMP TO N/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.00	0.00	INTERSECTION	L	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.18	0.18	INTERSECTION	L	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.18	0.18	INTERSECTION	N/A	ROUTE 0001 (BALTIMORE-WASHINGTON PARKWAY (NB))
0.18	0.18	ONE-WAY END	N/A	N/A

BAWA: Route Milepost Log

ROUTE 0511CZ: S/B BW PARKWAY RAMP TO NASA

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.00	0.00	ONE-WAY START	N/A	N/A
0.18	0.18	INTERSECTION	L	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.18	0.18	INTERSECTION	N/A	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.18	0.18	ONE-WAY END	N/A	N/A

ROUTE 0511DZ: NASA RAMP TO S/B BW PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (NASA GODDARD SPACE FLIGHT CENTER / NON-NPS)
0.00	0.00	ONE-WAY START	N/A	N/A
0.20	0.20	INTERSECTION	L	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.20	0.20	INTERSECTION	N/A	ROUTE 0002 (BALTIMORE-WASHINGTON PARKWAY (SB))
0.20	0.20	ONE-WAY END	N/A	N/A

Section 8
Appendix

Baltimore - Washington Parkway

Federal Lands Highway
Road Inventory Program

Improvements to the RIP Index Equations and Determination of PCR

In 2005, the Federal Highway Administration (FHWA) began implementing the use of a Pavement Management System (PMS) to assist the National Park Service (NPS) in prioritizing Pavement Maintenance and Rehabilitation activities. The PMS used by FHWA is the Highway Pavement Management Application (HPMA) which has the ability to store inventory and condition data from the Road Inventory Program (RIP) and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Region, Park, or Route level. A regional prioritized list and optimization have been produced for most regions and the Federal Highway Deferred Maintenance is calculated via the HPMA as well.

In an effort to improve the accuracy of treatment recommendations and pavement condition descriptions the distresses and indexes that comprise the Pavement Condition Rating (PCR), an extensive study was completed throughout 2010 that has resulted in changes to the RIP condition reporting method and specifically, the calculation of PCR. It was determined that a better representation of PCR could be achieved by modifying the relative impact certain distresses would have on the overall rating.

Through the use of HPMA data, it was noted that false failure indicators existed with the existing PCR model, and that it would be necessary to reduce their impact. The distresses affected in this way were Rutting and Roughness. Conversely, experience showed that roadways with extensive cracking present were often shown to have a high PCR. Therefore, the crack index models were adjusted to be more sensitive to changes in crack severity or quantity. It was also determined that these issues were not due to a problem with data acquisition (i.e. the RIP "van"), but with the way the collected data was processed. The final change was to provide guidance on when to use the Roughness Condition Index (RCI) in the PCR calculation. Roughness data is of little value to determining overall condition on routes that, due to their length or geometrics, have lower vehicle operating speeds. Therefore, in Cycle 5, only routes that have lengths of one half mile or greater and posted speed limits of 25 mph or greater will have RCI reported and included in the PCR calculations.

Additionally, methodologies were updated in 2013 for Manually Rated Routes (paved routes that the collection vehicle is unable to drive) as well as Parking Areas to provide more accurate condition data to the HPMA. These updated methodologies allow for the efficient assessment of pavement conditions using a visual inspection method to denote specific distresses. These distresses are indicative of current conditions, the causes for current and future deterioration, and identify the level of targeted repair and rehabilitation practices required.

The changes that were implemented were endorsed by management at both the FHWA and NPS. In order to show the effectiveness of these changes, several sites were ground truth tested in early 2014 to ensure that an improvement was achieved between the relationship of PCR and the actual Maintenance and Rehabilitation needs that were represented. The changes will allow greater use of RIP and HPMA data for not simply condition data reporting, but also as a reliable tool for project identification and selection.

Description of the Rating System

The Federal Highway Administration, National Park Service Road Inventory Program (NPS-RIP), collects roadway condition data on paved surfaces (asphalt, concrete, brick, and cobblestone) on roads, parkways, and parking areas in national parks nationwide. The road surface condition data is collected using an automated Data Collection Vehicle (DCV) and manually using Manually Rated Route (MRR) procedures. Roads having brick or cobblestone surfacing are not normally surveyed with the DCV, but are manually rated for condition rating.

The FHWA RIP is implemented based on the premise that an accurate pavement surface condition assessment can be accomplished using automated crack detection technology as applied to digital images. Various methods of pavement condition assessment have been developed over the years with varying degrees of accuracy and acceptance. The use of digital photography to record pavement images and subsequent crack detection and classification has undergone continuous improvements over the past decade. Digital cameras with increasingly superior resolution and high definition have become more affordable, and the proprietary programming code and algorithms have been improved in crack detection software.

With the use of quality digital photography and automated crack detection software, FHWA RIP is tasked with executing a pavement condition assessment on a network of roughly 5,700 miles of National Park Service roads and parkways. Because a subset of roads will be collected multiple times this cycle, the total collection length will be around 13,000 miles. Foremost in setting up the basis of pavement distress identification is employing the distress identification protocols used by FHWA. There is no single distress identification system that is universal among entities conducting a program of distress identification. For the purpose of the NPS RIP, FHWA employs distress identification protocols that are specific to this program.

FHWA has referenced the "*Distress Identification Manual for the Long-Term Pavement Performance Program", Publication No. FHWA-RD 03-031, June 2003,* as the point-of- reference for distress types on NPS pavement. In truth, the FHWA RIP distress types are similar to those described in the LTPP manual with some modifications. This document, "*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020"* was developed using the "*Distress Identification Manual for the Long-Term Pavement Performance Program"* as a guideline. Definitions of severity levels based on crack width contained in this document adhere to the LTPP Distress ID Manual. Modifications have been made to the definition of Alligator and Longitudinal Cracking and determination of Alligator Cracking severity. This manual also addresses Rutting and Roughness and its application to RIP.

Cycle 6 has launched in the spring of 2014 and will again comprise all parks, large and small, that are served by paved roads and/or parking areas. For Cycle 6, roughly 333 large and small parks will have all paved routes and parking areas collected at least once in the cycle, some will have multiple collections depending on the size of the park and the functional class of the route.

This "*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020*" will be used as a reference resource in crack detection and classification, determination of distress severity and extent, and in the calculation of distress index values for the FHWA RIP Cycle 6.

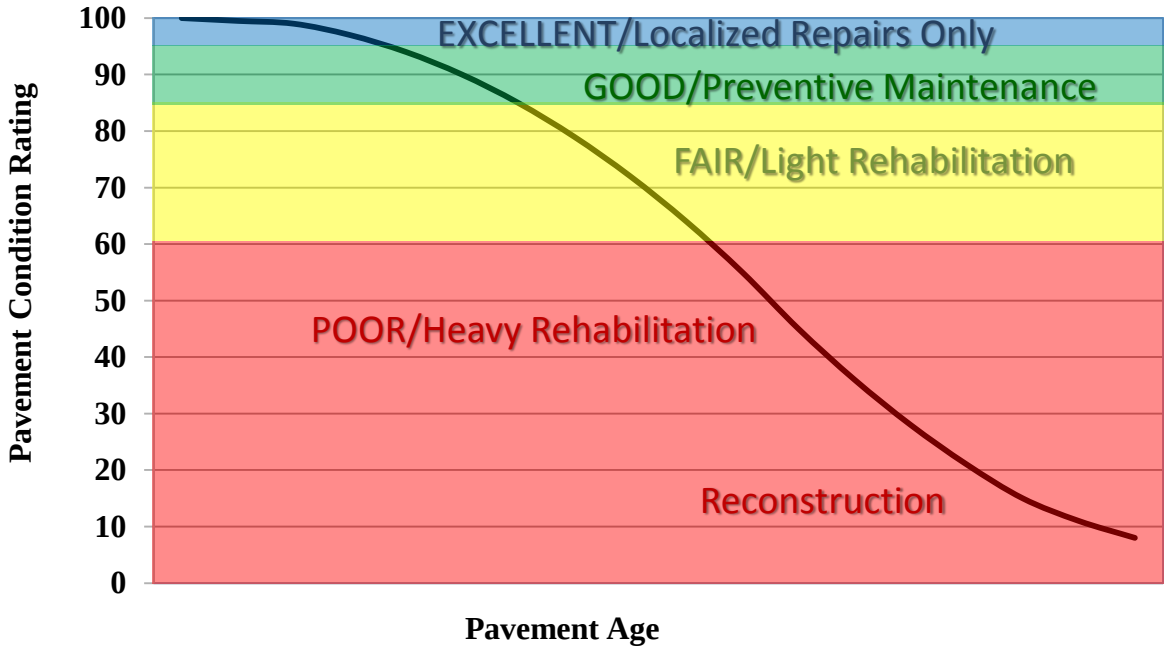
Explanation of the Condition Descriptions

In addition to the RIP Index changes that were implemented in Cycle 5, we will also aim to provide greater assistance in translating good/fair/poor categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the types of treatments that should be considered now and into the future.

- Excellent/New: PCR of 95-100. Pavements in this range will require only spot repairs
- Good: PCR of 85-94. Pavements in this range will likely be candidates for preventive maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.
- Fair: PCR of 61-84. Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include single-lift overlays up to 2.5 inches in total thickness, milling and overlays.
- Poor: PCR of 60 or below. Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.

At this time, specific maintenance and rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions the year in which the data was collected. For further information or to obtain additional PMS data from our (HPMA) please contact the Eastern Federal Lands pavement team.

Condition Categories and Treatments



Description of Pavement Treatment Types

1. **Preventive Maintenance** is a planned strategy of cost-effective treatments to an existing roadway system and its appurtenances that preserves the system, retards future deterioration, and maintains or improves the functional condition of the system (without significantly increasing the structural capacity). Preventive maintenance is typically applied to pavements in good condition having significant remaining service life. As a major component of pavement preservation, preventive maintenance is a strategy of extending the service life by applying cost-effective treatments to the surface or near-surface of structurally sound pavements. Examples of preventive treatments include asphalt crack sealing, chip sealing, slurry or micro-surfacing, thin and ultra-thin hot-mix asphalt overlay, concrete joint sealing, diamond grinding, dowel-bar retrofit, and isolated, partial and/or full-depth concrete repairs to restore functionality of individual slabs.

2. Pavement Rehabilitation consists of structural enhancements that extend the service life of an existing pavement and/or improve its load carrying capacity. Rehabilitation techniques include restoration treatments and structural overlays. Rehabilitation projects extend the life of existing pavement structures either by restoring existing structural capacity through the elimination of age-related, environmental cracking of embrittled pavement surface or by increasing pavement thickness to strengthen existing pavement sections to accommodate existing or projected traffic loading conditions. Two sub-categories result from these distinctions, which are directly related to the restoration or increase of structural capacity.

    - **Light Rehabilitation (L3R)** - Examples include single-lift overlays up to 2.5 inches in total thickness and milling and overlays for flexible pavements

    - **Heavy Rehabilitation (H3R)** – Requires rehabilitation with grade improvement. H3R stands for resurfacing, restoration, and rehabilitation projects. H3R projects typically involve multi-depth (overlays greater than 2.5 inches) pavement improvement work (short of full-depth replacement) and targeted safety improvements. H3R projects generally involve retention of the existing three-dimensional alignment.

3. **Reconstruction (4R)** is defined as the replacement of the entire existing pavement structure by the placement of the equivalent or increased pavement structure. Reconstruction usually requires the complete removal and replacement of the existing pavement structure. Reconstruction may utilize either new or recycled materials incorporated into the materials used for the reconstruction of the complete pavement section. Reconstruction is required when a pavement has either failed or has become functionally obsolete.

Appendix A

Methodology for Determining Condition Ratings with the Data Collection Vehicle (DCV)

Surface Distresses Identified by the Data Collection Vehicle

Surface Condition Rating – SCR

Surface distresses are measured in the primary lane only. In the classification and measurement of all paved surface condition data, results will be reported in the database in record intervals of 0.02 miles (105.6 feet) (smallest granularity) along the route.

Surface distresses and rutting are determined from digital images that provide both the longitudinal and transverse profile. The images also provide an elevation profile of the road, creating a 3-dimensional image of the paved surface.

- Transverse Cracks
- Longitudinal Cracks
- Alligator Cracks
- Patching/Potholes
- Rutting

Each of the five surface distresses is assigned a computed surface distress index

- Transverse Crack Index
- Longitudinal Crack Index
- Alligator Crack Index
- Patching/Pothole Index
- Rutting Index

Surface distress data are classified as listed above, measured for severity, and quantified for extent. Classification, severity, and extent of these five surface distresses comprise the three main elements for calculation of Surface Condition Rating (SCR).

In addition to the five surface distresses, a Structural Crack Index is computed, which is a combination of the Longitudinal Crack Index and the Alligator Crack Index. The Structural Crack Index is then used in lieu of the LC and AC indices to compute SCR.

Roughness Condition Index - RCI

Additional condition data measured by DCV (lasers and accelerometers)

- Roughness (IRI)

Roughness is measured by FHWA's DCV and reported as International Roughness Index (IRI) in inches/mile. Using IRI, the Roughness Condition Index (RCI) is computed.

Pavement Condition Rating - PCR

Using the SCR (computed from the five surface distresses) and the RCI, an overall Pavement Condition Rating (PCR) is computed. The formula for PCR is:

Asphalt PCR = (0.60 * SCR) + (0.40 * RCI)
Concrete PCR = RCI

A detailed description of each distress index formula, roughness index formula, SCR and PCR is provided in this document.

Each classified surface distress will fall into one or more severity - LOW, MEDIUM, or HIGH based on criteria listed. For each severity, an extent is established based on the measured quantity of the distress within that severity. Within each severity individual distresses are assigned a Maximum Allowable Extent (MAE). For example, LOW severity transverse cracking may be allowed up to 21.1 cracks within a 0.02 mile interval before it reaches MAE and fails.

The index formulas are based on a scale of 0 to 100. A PCR index value of 100 would indicate a "new" road with no measurable distresses or rough ride. A PCR value of 60 is determined to be terminable serviceability and the road is considered failed. The range of index values with condition descriptors is:

POOR = (less than or equal to 60), **FAIR**= (61 – 84), GOOD= (85 - 94), **EXCELLENT**= (95 - 100)

Index values are generally computed based on cumulative deducts of the measured severities. As shown in the index formulas below, as any single severity reaches or exceeds MAE, the index computes to a value of 60 or less, and the road fails for that 0.02 interval.

> **Note:** *As a result of a unique combination of measured surface distresses and IRI, index values occasionally compute to less than 0 or greater than 100. In this instance, an index value less than 0 defaults to 0. Index values greater than 100 defaults to 100. For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.*

On the following page, Table 1 summarizes the different types of distresses measured.

ASPHALT-SURFACED PAVEMENT DISTRESS TYPES WITH RUTTING AND ROUGHNESS				
Distress Type	**Units Of Measure**	**Converted To**	**Defined Severity Levels?**	**Measured By**
Alligator Cracking	Square Feet	Percent of Lane Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Transverse Cracking	Linear feet	Number of Cracks Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Longitudinal Cracking	Linear feet	Percent of Lane Length Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Patching / Potholes	Square Feet	Percent of Lane Per 0.02 Mile	No	3 Dimensional pavement imaging system
Rutting	Inches	Rut Depth Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Roughness	IRI	*RCI Per 0.02 Mile	No	DCV – Lasers / Accelerometers

*Note: *Roughness is measured on concrete roadways, but surface distresses and rutting are not measured. For concrete, PCR = RCI*

Table 1. Distress summary

Alligator Cracking

Description:

Alligator cracking is considered a combination of fatigue and block cracking. It is a series of interconnected cracks in various stages of development. Alligator cracking develops into a many-sided pattern that resembles chicken wire or alligator skin. It can occur anywhere in the road lane. Alligator cracking must have a quantifiable area.

Severity Levels:

LOW
An area with little to no interconnecting cracks with no visible spalling. Cracks are less than or equal to a mean width of 0.25 in. (6mm). Cracks in the pattern are no further apart than 1 foot (0.328 m). May be sealed cracks with sealant in good condition and a crack width that cannot be determined.

MEDIUM
An area of interconnected cracks that form a complete pattern. Cracks may be slightly spalled. Cracks are greater than 0.25 in. (6 mm) but less than or equal to 0.75 in. (19 mm) or any crack with a mean width less than or equal to 0.75 in. (19 mm) and adjacent low severity cracking. Cracks in the pattern are no further apart than 6 in. (150 mm).

HIGH
An area of interconnected cracks forming a complete pattern. Cracks are moderately or severely spalled. Cracks are greater than 0.75 in. (19mm) or any crack with a mean width less than or equal to 0.75 in. (19mm) and adjacent medium to high severity random cracking.

A combination of observed crack width and crack pattern is used to determine overall severity of alligator cracking. Based on above description of each severity, the highest level of crack width and crack pattern determines overall severity as shown in Table 2.

ALLIGATOR CRACKING SEVERITY LEVELS				
	CRACK SEVERITY	**CRACK PATTERN**		
		LOW	**MED**	**HIGH**
CRACK WIDTH	LOW	LOW	MED	HIGH
	MED	MED	MED	HIGH
	HIGH	HIGH	HIGH	HIGH

Table 2. Alligator Crack Severity Levels

Longitudinal Cracking

Description:

Longitudinal cracking occurs predominantly parallel to the pavement centerline. It can occur anywhere within the lane. Longitudinal cracks occurring in the wheelpath may be noteworthy.

Severity Levels:

LOW
Cracks with a mean width less than or equal to 0.25 in. (6 mm). This also includes sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM
Cracks with a mean width greater than 0.25 in. (6 mm) but less than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH
Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Transverse Cracking

Description:

Transverse cracking occurs predominantly perpendicular to the pavement centerline. It can occur anywhere within the lane.

Severity Levels:

LOW
Cracks with a mean width of less than or equal to 0.25 in. (6 mm). Sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM
Cracks with a mean width greater 0.25 in. (6 mm) and less than or equal to 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH
Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Patching and Potholes

Description:

Patching is an area of pavement surface that has been removed and replaced with patching material or an area of pavement surface that has had additional patching material applied. Patching may encompass partial lane or full lane width. On full lane width patching; the total, contiguous length of patch may not exceed 0.100 mi. (0.161 km). (Any full-lane patch exceeding 0.100 mi. in length is considered a pavement change). Patching must have a quantifiable area.

Potholes are bowl-shaped holes of various sizes occurring in the pavement surface.

Manhole covers should not be rated as patches unless there is obvious patching around the manhole.

Speed bumps should not be rated as patches

Severity Levels:

There are no stratified severities for Patching and Potholes. They either are present or they are not.

RUTTING

Description:

Rutting is a longitudinal surface depression in the wheelpath.

Severity Levels:

LOW

Ruts with a measured depth of 0.20 inches to 0.49 inches
Ruts less than 0.20 in. are not included in the distress calculations.

MEDIUM

Ruts with a measured depth of 0.50 inches to 0.99 inches

HIGH

Ruts with a measured depth greater than 1.00 inch

ROUGHNESS

Description:

Roughness is the measurement of the unevenness of the pavement in the direction of travel. It is measured in units of IRI (International Roughness Index), inches per mile, and is indicative of ride comfort.

Severity Levels:

There are no stratified severity levels for roughness. The roughness (or smoothness) of a road surface can be defined by IRI in the following table.

IRI DESCRIPTIONS	
Type of Road	**Typical IRI (in/mile)**
New Road, no noticeable roughness	<90
Small level of roughness	90 – 126
Road of average roughness	126 – 190
Road with above average roughness	190 – 253
Road with severe roughness	253 – 380
Nearly impassable	>380

Table 3. International Roughness Index

Roughness Collection Parameters

On shorter roads with a lower speed limit the usefulness in collecting and reporting IRI is negligible. Lower, inconsistent speeds can lead to a less accurate IRI value. Therefore RIP has put in place the following protocols for reporting IRI.

International Roughness Index (IRI) is not reported on routes with the following criteria:

- Posted speed limit is less than 25 mph
- Length of route is less than 0.50 miles

When a collected route has a posted speed limit of at least 25 mph and length of at least 0.50 miles, IRI will be collected except on road sections where the speed is less than 20 mph

Other situations may arise where the speed and length factors are met, but reporting IRI could lead to an inaccurate PCR. RIP will determine whether or not it is reasonable to report IRI on these routes on a case by case basis.

Index Formulas

Note: All index formulas listed below contain MAE applicable to 0.02 mile (105.6 feet) interval.

Alligator Crack Index

AC_INDEX = 100 – 40 * [(%LOW / 35) + (%MED / 15) + (%HI / 5)]

Where:

The values %LOW, %MED and %HI report the percentage of the observed pavement (0.02 mile, primary lane) that contains alligator cracking within the respective severities. These values range from 0 to 100.

%LOW = Percent of total area (primary lane, 0.02 in length), low severity
%MED = Percent of total area (primary lane, 0.02 in length), medium severity
%HI = Percent of total area (primary lane, 0.02 in length), high severity

Percent of total area is computed as:

$$\frac{\text{square foot area of alligator crack severity}}{(0.02\text{ mile})*(\text{lane width})}$$

In AC_INDEX, the denominators 35, 15, and 5 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 35% of low severity alligator cracking for a 0.02 interval before failure, 15% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Longitudinal Crack Index

LC_INDEX = 100 – 40 * [(%LOW / 175) + (%MED / 75) + (%HI / 25)]

Where:

The values %LOW, %MED, and %HI report the length of longitudinal cracking within each severity as a percent of the section length (0.02 mile, primary lane). These values are greater than or equal to 0 and can exceed 100.

%LOW = Percent of interval length (primary lane, 0.02 in length), low severity
%MED = Percent of interval length (primary lane, 0.02 in length), medium severity
%HI = Percent of interval length (primary lane, 0.02 in length), high severity

Percent of interval length is computed as:

$$\frac{\text{length of respective longitudinal cracking}}{(0.02\text{ mile})*(105.6\text{ ft.})}$$

In LC_INDEX, the denominators 175, 75, and 25 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 175% of low severity longitudinal cracking for a 0.02 interval before failure, 75% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Structural Crack Index

SC_INDEX = [100 - ((100 - AC_INDEX) + (100 - LC_INDEX))]

Structural Crack Index is a combination of Alligator Cracking and Longitudinal Cracking, and is used in the SCR formula in lieu of AC and LC separately.

Transverse Crack Index

TC_INDEX = 100 – 40 * [(LOW / 21.1) + (MED / 4.4) + (HI / 2.6)]

Where:

The values LOW, MED and HI report a count of the total number of transverse cracks (reported to three decimals) within each severity level, where one transverse crack is equal to the lane width. These values are greater than or equal to 0.

LOW = Number of cracks in interval (primary lane, 0.02 in length), low severity
MED = Number of cracks in interval (primary lane, 0.02 in length), medium severity
HI = Number of cracks in interval (primary lane, 0.02 in length), high severity

Number of cracks is computed as:

$$\frac{\text{Total length of transverse cracks}}{\text{Lane width}}$$

In TC_INDEX, the denominators 21.1, 4.4, and 2.6 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 21.1 low severity transverse cracks for a 0.02 interval before failure, 4.4 cracks for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Patching Index

PATCH_INDEX = (100 – 40) * (%PATCHING / 80)

Where:

The value %PATCHING reports the percentage of the observed pavement (0.02 mile, primary lane) that contains patching/potholes. This value ranges from 0 to 100.

%PATCHING = Percent of total area (primary lane, 0.02 in length)

Percent of total area is computed as:

$$\frac{\text{square foot area of patching/potholes}}{\text{(0.02 mile)*(lane width)}}$$

There are no severity levels for patching. It either exists or does not.

There are no severity levels for patching. It either exists or does not. In PATCH_INDEX, the denominator 80 is the Maximum Allowable Extent (MAE) for each severity. In other words, we will allow up to 80% patching for a 0.02 interval before failure. As you can see, if patching/potholes reaches MAE the resulting index value is 60, or failure.

Rutting Index

RUT_INDEX = 100 – 40 * [(%LOW / 535) + (%MED / 205) + (%HI / 40)]

Where:

20 rut depth measurements are taken per 0.02 interval for each of 2 wheel paths (left and right), resulting in a total of 40 measurements taken for both wheel paths. Each wheelpath is analyzed independently for rut severities. The values %LOW, %MED and %HI report the percentage of the 40 measurements within that severity. These values range from 0 to 200.

%LOW = Percent of LOW ruts in left wheelpath based on 20 ruts, plus percent of LOW ruts in right wheelpath based on 20 ruts.
%MED = Percent of MED ruts in left wheelpath based on 20 ruts, plus percent of MED ruts in right wheelpath based on 20 ruts.
%HI = Percent of HI ruts in left wheelpath based on 20 ruts, plus percent of HI ruts in right wheel path based on 20 ruts.

Percent of rut measurements within each severity can also be computed as:

$$\frac{\textbf{(total number of ruts within each severity in both wheelpaths)}}{\textbf{20}} \times \textbf{100}$$

In RUT_INDEX, the denominators 535, 205, and 40 are the Maximum Allowable Extents for each severity; Low, Medium, and High, respectively. Only the MAE for high severity rutting can fail a section, since 200% of *only* low severity ruts would yield a rut index of 85 and 200% of *only* medium severity ruts would yield a rut index of 61.

Roughness Condition Index (Asphalt)

RCI = 32 * [5 * ($2.718282^{(-.0041 * \text{AVG IRI})}$)]

Where:

The value AVG IRI reports the average value of the Left IRI and Right IRI measurements for the interval (0.02 mile, primary lane). This value can range from approximately 40 to 999.0.

Average IRI is computed as:

$$\frac{\text{(Left wheelpath IRI) + (Right wheelpath IRI)}}{2}$$

There is no applicable threshold for failure for this index.

Roughness Condition Index (Concrete)

RCI = $(-0.0012)(\text{IRI}^2) + (0.0499)(\text{IRI}) + 99.542$

For concrete, PCR = RCI

Surface Condition Rating Index

SCR = Lowest Index Value Of: [SC_INDEX, TC_INDEX, PATCH_INDEX, RUT_INDEX]

Note: *The modified SCR equation above combines AC_INDEX and LC_INDEX, and considers that a single AC/LC index value of the Structural Crack Index (SC_INDEX). The lowest of the four computed index values (SC_INDEX, TC_INDEX, PATCH_INDEX, or RUT_INDEX) becomes the SCR.*

Where:

See above for determinations of SC_INDEX, TC_INDEX, PATCH_INDEX and RUT_INDEX.

The threshold for failure for this index is SCR = 60.Data Collection Vehicle Subsystems

Data on paved roads is collected by FHWA using a Pathway Services Inc. Data Collection Vehicle (DCV), called a PathRunner. The DCV is driven in the primary-direction lane at posted speed limits and less.

Cameras

Forward-facing and rear-facing video is collected as jpeg digital imagery files at a frequency of every 26.4feet.

Two forward-facing cameras are mounted above the vehicle cab, one pointed straight ahead and the other to the right shoulder providing seamless roughly 120 degree viewing. A third camera is mounted in the rear of the vehicle, recording the left shoulder.

CAMERA SPECIFICATIONS TWO FORWARD / ONE REAR FACING CAMERA	
Camera lens/type	Prosilica GT 2750 (GigE Technology)
Image format	*.jpg
Image resolution	2750 x 2200, 18 frames/second
Image pixel size	depends on distance
Zoom ratio	16mm Fixed
Iris range	Aperture Range F 1.8 – Infinity (P-Iris, Automatic

Pavement Imaging and Rutting

High resolution rutting data and surface imaging are collected in a single data stream using a three-dimensional (3D) pavement surface transverse profile data acquisition system. The 3D camera captures a laser line as it is projected over the pavement surface and uses the location of this line to measure the height deviations of the pavement surface. These height deviations can be used to calculate rutting in both wheelpaths. These deviations also provide a grayscale image detailing the change in height throughout the surface, i.e. providing depth measurements for cracking.

THREE-DIMENSIONAL PAVEMENT SURFACE AND TRANSVERSE PROFILE DATA ACQUISITION SYSTEM	
Surface Image Specifications	
Image size	1536 pixels/scan @3000 Hz
Image width	4 meters (3950 mm nominal)
Laser class	3B
Power	16W (Two lasers @ 8W Ea)
Vehicle speed limitations	62 mph
Environment	Dry pavement, day or night
Sensor size (approximate)	1536 pixels x 512 pixels
Image display length	26.4 feet
Rutting Specifications	
Reported rut depth units	Inches
Vehicle speed limitations	Up to 62 mph
Sampling rate	3000 profiles/second
Transverse resolution	1536 points/profile
Transverse field-of-view	14 feet
Depth accuracy (nominal)	<1mm
Environment	Dry pavement, day or night, above 32 degrees F
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

Distance Measuring Instrument (DMI)

The DMI (Distance Measuring Instrument) obtains road length measurements that are accurate to 0.15% for speeds up to 60 mph. The DMI is connected to the hub of the rear wheel on the driver's side, and is calibrated to the revolutions of the rear vehicle axle on a regular basis.

Roughness (IRI)

IRI SPECIFICATIONS	
Reported IRI units	Inches/mile
Vehicle speed limitations	12-62 mph
IRI equipment certification	Texas Transportation Institute (TTI)
Wavelengths accommodated	0.5 feet to 300 feet
IRI computed & reported	World Bank Technical Paper Number 46
Environment	Dry pavement, day or night, above 32 degrees
Adherence to specifications	ASTM E950 Class 1 & AASHTO M 328

The collection system includes a South Dakota type laser profiler manufactured based on active Class 1 ASTM E950 standards. The dynamic profile of the pavement surface is collected from which the IRI roughness data is computed. The sensors include one accelerometer on each wheelpath, one height sensor (laser) on each wheelpath, and a distance transducer.

GPS & Inertial Systems

GPS is collected by an onboard system employing Omnistar real time correction and a spinning gyroscope to provide accurate positioning data in instances of satellite obstruction. All GPS coordinates are tied to an image and linear distance measurements.

GPS SPECIFICATIONS	
Static accuracy	Sub-meter
Dynamic accuracy	2-3 meters
Receiver	12 satellite tracking
Coordinate system	Lat Lon WGS 84
Environment	Day or night
Cross-slope	± 1.75%
Grade	± 1.75%
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

*NOTE – GPS accuracy is dependent on many different factors. Satellite constellation, tree coverage, GPS receiver quality, and real-time correction availability can all affect the locational and elevation accuracies. The elevation (z coordinate) accuracy is less dependable than locational or horizontal accuracy (x/y coordinates or latitude/longitude). In areas of heavy tree coverage or poor satellite constellations, elevation data can vary by as much as +/- 100 feet.

Appendix B

Methodology for Determining Condition Ratings Using Manual Rating Procedures

Description of Manual Rating Methods

In 2013, the Federal Highway Administration updated existing Manual Rating Procedures in an effort to better align pavement conditions for Manually Rated Routes and Parking with the Highway Pavement Management Application (HPMA). HPMA is the Pavement Management System used by the FHWA to store inventory and condition data from the Road Inventory Program (RIP) and forecast future performance using prediction models. HPMA uses pavement condition data (collected by the Road Inventory Program) to develop life cycles for pavements and recommend treatments to maximize useable pavement life while minimizing costs associated with maintenance and repair.

The Federal Highway Administration (FHWA) developed a set of manual rating methods for pavement that are appropriate for Federal Roadways. Two different methods were developed for linear roads and a separate method was developed for parking areas and nonlinear roads. These methods employ a 0 to 100 rating scale and improve consistency and objectivity in the manual evaluation of surface distresses. They are compatible with ratings that are collected by the automated Data Collection Vehicle (DCV).

- The first of the two manual evaluation methods for roads uses rating criteria to assign index values to each distress type based on a visual evaluation of severity and extent.

- The second manual evaluation method for roads is very time demanding and is best employed on only a select set of routes which may have the highest visitor use and require a more intensive assessment. This method will be used for the Manual Rating of Function Class 1, 2, 7, and 8 Roads. This method is based on measurements that are recorded for each instance of a surface distress. These measurements are converted into index values using conversion formulas.

- Parking areas and non-linear roads are rated similar to the first method shown above, however, there are some slight differences due to the non-linear nature.

The details and criteria used for each of these rating methods are outlined below.

Visual Inspection Method for Manually Rating Secondary Roads

The visual inspection method for manually rated roads uses condition rating criteria that have been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the roadway. This method is used for secondary roads that are Functional Class 3, 4, 5, and 6. This constitutes the majority of manually rated roads collected by the Road Inventory Program.

Rating Section Lengths

For this method, Manually Rated Roads are rated in sections. These sections may be made based on length of changes in surface type or condition as described below. The ratings are then aggregated to give an overall rating for the Route:

- Rating sections should be no longer than 0.25 miles in order to keep the area being rated manageable.
- A new rating section may be started based on changes in condition, width, or surface type if these changes represent a significant portion of the route (are not isolated instances).
- If the road condition, width, and surface type remain constant then new sections do not need to be created unless the road exceeds 0.25 miles.

Rating Criteria

For this method, Manually Rated Roads are evaluated using a visual inspection of the six distress types listed below. Each distress is assigned one of five index values. An overall Surface Condition Rating (SCR) and Pavement Condition Rating (PCR) are calculated based on these index values.

- Alligator Cracking
    - Rating based on percentage of road surface affected
- Longitudinal Cracking
    - Rating based on severity level (crack width) and percentage of road section length of longitudinal cracks
- Transverse Cracking
    - Rating based on crack width, crack spacing, and percentage of surface affected
- Patching
    - Rating based on percentage of road surface affected
- Rutting
    - Rating based on percentage of road section length affected by visible rutting (>1 inch depth) that requires remediation
- Roughness
    - Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Concrete Routes also receive a PCR rating based on visual evaluation of the following six distress types.

- Slab Faulting at Joints
- Slab Cracking and breakup
- Surface Delamination and Pop-outs
- Joint Distresses
- Patching

Distress Measurement Method for Manually Rating Primary Roads

A more intensive and time demanding assessment than our standard method was developed for Primary roads that are functional class 1, 2, 7, or 8. These high visitation roads are usually accessible by the automated Data Collection Vehicle but in rare instances may need to be manually rated. The method developed is based on measuring each instance of a distress. These measurements are totaled over each section length being measured and are then converted into index values between 0 and 100 (100 being a road with no distress) using index formula equations outlined below. The goal of this method is to produce measured index values which are directly comparable to the automated DCV.

Rating Section Lengths

For the distress measurement method roads are broken into sections in order to rate. Distress measurements are totaled for each section separately in order to determine the index value for that particular section. The section length to be rated is determined based on the following rules:

- Rating sections are between 0.25 and 0.50 miles long
- A new rating section is created if there is a significant change in condition or pavement width
- If there are no significant changes in condition or pavement width, rating sections are broken at equal intervals, typically 0.50 miles

Manual Distress Measurements

Alligator Cracking

- Alligator cracking is measured by area (square feet). Instances of Alligator cracking are measured along the length and multiplied by the average width of the distressed area.
- The index for alligator cracking takes the total area of cracking compared to the interval length and converts it to a percentage. That percentage is then input into an index formula that yields a value between 0 and 100 (0 being the most distressed).
- Severity levels are not defined for manually measured Alligator cracks. The Alligator Crack Index formula is calculated based on an assumption of medium severity.

Longitudinal Cracking

- Longitudinal cracking (cracking in the direction parallel to the roadway) is measured by length (ft.).
- The index for longitudinal cracking takes the total length of cracking compared to the interval length and converts it to a percentage broken down by severity. That percentage is then input into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Longitudinal Cracks. Lower severity cracks are those with a mean width of less than 0.25 inches. Sealed cracks with sealant in good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Transverse Cracking

- Transverse cracking (cracking in the direction perpendicular to the roadway) is measured by length (ft).
- The index for transverse cracking takes the total number of cracks (1 crack would encompass the full lane) broken down by severity. The total numbers of each severity are then put into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Transverse Cracks. Lower severity cracks are those with a mean width of less than or equal to 0.25 inches. Sealed cracks with sealant in

good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Patching and Potholes

- Patching and Potholes are measured by area (square feet). Instances of Patching are measured along the length and multiplied by the average width of the patch.
- Instances of full lane width patching cannot be longer than 0.100 miles, otherwise is should be considered a pavement change rather than a distress.
- There are no stratified severities for Patching. It is either present or it is not.

Rutting

- Visible rutting is measured by length (ft.) in each wheel path. Only visible ruts are rated, which are ruts greater than 1 inch deep.
- All rutting recorded in a manual rating is considered to be high severity (> 1 inch). Lesser severities are generally not distinguishable in a visual inspection.

Roughness

- Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Index Formulas for Distress Measurement Method:

The method used to convert distress measurements into index values is shown below. The Surface Condition Rating and Pavement Condition Rating are calculated based on these index values.

Alligator Crack Index for Manual Rating:

AC_INDEX = 100 – 40 * (%ALLIGATOR / 15)

Where:

%ALLIGATOR = Percent of total area of section being rated that contains Alligator cracking.

Longitudinal Crack Index for Manual Rating:

LC_INDEX = 100 – 40 * [(%LOW / 175) + (%MED / 75)]

Where:

%LOW = Percent length of longitudinal cracks where crack width less than or equal to 0.25 inches

%HIGH = Percent length of longitudinal cracks where crack width greater than 0.25 inches

Transverse Crack Index for Manual Rating:

TC_INDEX = (100 – 40) * [(LOW / 21.1) + (MED / 4.4)]

Where:

LOW = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width <= 0.25 inches

HIGH = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width > 0.25 inches

Number of cracks is computed as:

Total length of transverse cracks/Lane width

Patching Index for Manual Rating:

PATCH_INDEX =(100 – 40) * (%PATCHING / 80)

Where:

%PATCHING = Percentage of pavement section that contains patching/potholes.

Rutting Index for Manual Rating:

RUT_INDEX = 100 – 40 * (%RUTTING / 40)

Where:

%RUTTING = Percentage length of high severity rutting within the section being measured.

Method for Manually Rating Paved Parking Areas and Non-Linear Roads

Parking areas are evaluated based on a visual inspection using condition rating criteria that has been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the parking area. This overall condition rating is linked to the level of repair and rehabilitation practices required.

A distress index is determined for each of the distresses listed below for Asphalt and Concrete Parking areas. The overall Pavement Condition Rating (PCR) of the parking lot is driven by the most severe distress present.

Rating Criteria:

Asphalt Parking Distress Types

- Alligator Cracking
  - Rating based on percentage of road surface affected
- Longitudinal, Transverse and Block cracking
  - Rating based on crack width, crack spacing, and percentage of surface affected
- Rutting and Distortions
  - Rating based on percentage of road surface affected
- Hot Mix Asphalt Patches
  - Rating based on overall percentage of HMA patches
- Potholes and Cold Patches
  - Rating based on percentage of road surface affected
- Surface Raveling and Bleeding
  - Rating based on percentage of road surface affected

Concrete Parking Distress Types

- Slab Faulting at Joints
  - Rating based on height differential between adjacent slabs or pieces of broken slabs
- Slab Cracking and breakup
  - Rating based on quantity of cracks and if slab is acting to able distribute load as designed
- Surface Delamination and Pop-outs
  - Rating based on percentage of road surface affected to include pop-outs, spalls and surface delamination
- Joint Distresses
  - Rating based on sealant condition and concrete distresses at/or adjacent to joints
- Patching
  - Rating based on percentage of road surface affected

Curb Inspection and Treatments

During inspections of manually rated parking lots and routes, the curb reveal and overall curb condition are evaluated. The curb condition is used to determine a recommendation.

Curb Reveal
The vertical distance on the curb face from the gutter flow line or pavement surface to the top of curb. When resurfacing adjacent to curb, the resulting curb reveal should be no less than 4 inches. Additionally, when resurfacing adjacent to a gutter, the resulting pavement surface should be flush with the gutter pan. In cases where a resurfacing would violate either of these parameters, the surface may need to be milled or removed to adjust to these field conditions.

Curb Recommendations
The following treatment categories are based on the overall percentage of distresses along the entire curb structure for a specific pavement structure. Distresses include spalling, cracking, loss of material and any other damage which prevents the curb from conveying storm runoff or failing to perform in its intended function.

- Overall curb damage ranging 0%-5%:
    - DO NOTHING
- Overall curb damage ranging 5%-20%
    - LIGHT REPAIR
- Overall curb damage ranging 20%-50%
    - MODERATE REPAIR
- Overall curb damage greater than 50%:
    - REPLACE

GPS for Manually Rated Roads and Parking

GPS information for Manually Collected Cycle 6 Routes will be recorded using the latest hardware and software by TRIMBLE 6000 Series GeoXT. Cycle 6 GPS collection units will allow access to GPS and GLONASS, improving overall GPS reliability, accuracy and precision to submeter accuracy. Additionally, the new GPS units have an enhanced ability to collect accurate signals underneath tree cover or adjacent to buildings or natural terrain with extreme vertical gradations that typically reduce GPS accuracy. Trees and buildings create "satellite shadows", limiting the areas where you can reliably collect high-accuracy GPS data. The updated GPS receiver will deliver improved usable data under tree canopy or in natural or urban canyons. Routes that were previously collected accurately will not be recollected in Cycle 6.

TRIMBLE 6000 SERIES GeoXT GPS SPECIFICATIONS	
Receiver	Trimble Maxwell™ 6 GNSS chipset
Channels	220 channels
Systems	GPS / GLONASS / WAAS
Accuracy	Sub-meter
Operation Temperature	–20 °C to +60 °C (–4 ºF to +140 ºF)
Cellular and Wireless	UMTS / HSDPA / GPRS / EDGE / Wi-Fi / Bluetooth
Internal Still Camera w/ GEOTAG ability	Autofocus 5 MP (JPG) and WMV w/ Audio

Appendix C

Description of Cycle 6 Deliverables

Final Report Delivery

The Final Report will contain all data collected by Manual Inspection and the Data Collection Vehicle. All information provided in the Interim Report will be included in the Final report. Manually collected information reported in the Interim Report may be updated in the Final Report if pavement conditions have substantially changed between the Manual Inspection and Data Collection Vehicle Inspection or other unforeseen circumstances.

The final report will be released approximately 8 months after the Data Collection Vehicle completes its collection of that specific park.

Data included in the Final Report package consists of the following:

- **Condition Photos:** All photos taken during Cycle 6.
- **Data Video:** Data and video of each route collected by the DCV will viewable through PATHVIEW software. PATHVIEW Software and training will be provided to NPS personnel by Eastern Federal Lands.
- **GPS on All Rated Routes:** All GPS data collected from the DCV will be provided. Parking areas, some roads, and other paved areas that are not fully drivable with the DCV are collected manually by field technicians. GPS is collected for these routes using portable Trimble GPS units.
    - GPS will be provided as Shapefiles and KMLs
    - All GPS data related to road collection with be linear referenced to the collected length
- **Geodatabase – Background and Metadata:** In addition to this park report, a geodatabase containing both tabular and spatial data specific to this park has been provided.
    - All data disseminated in the preceding report has been obtained from the tables and fields within said geodatabase. The geodatabase can be referenced for tabular data via Microsoft Access or for both tabular and spatial data via ESRI's ArcGIS Suite of software which consists of; ArcMap, ArcCatalog and ArcExplorer.
    - Consolidating the RIP data into one database creates a seamless relationship of tables and geographic data. It allows RIP to facilitate easier updates and enhancements in the future. A geodatabase can be thought of as simply a database containing spatial data. A complete and thorough description of the tables and fields contained within this geodatabase can be found in the metadata. The metadata is attached directly within the geodatabase and can be accessed via ESRI's ArcCatalog.
- **Report (RIP Report and Route ID):** A PDF report will be provided that includes a list of all routes and key data. Condition reports for each route will be included. All changes, additions and deletions to any route will be included in the report. Features along routes will not be collected in Cycle 6.

Partial DCV Collections

Additional Partial DCV Collections may be done on specific parks depending on their size and overall mileage of routes within its boundaries during Cycle 6. Parks with greater than 10 miles of paved roadways will receive at least one additional Partial DCV collection during Cycle 6. Data collected during these Partial DCV Collections will not result in the delivery of an additional report to the park.

Data collected by the DCV during Partial DCV Collection will be used to improve HPMA modeling by providing additional "snapshots in time" of park pavement conditions. This improved HMPA modeling will assist in the programing and budgeting of future projects which will help maximize the life of pavement infrastructures.

Instead of receiving a report of conditions collected during the Partial DCV collection, the park will receive a formal letter from the Road Inventory Program requesting coordination for the additional Partial DCV collection, identifying the dates of the Partial DCV Collection and will reinforce the purpose and importance of the Partial DCV Collection.

Appendix D

Glossary of Terms and Abbreviations

Glossary of Terms and Abbreviations

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AC	Alligator Cracking
CRS	Condition Rating Sheets (Section 5)
Curb Recommendation	Curb remediation based on overall percentage of curb distress
Curb Reveal	Height of curb exposed from gutter flow line to top of curb
DCV	Data Collection Vehicle
Excellent	Excellent rating with an index value of 95 to 100
Fair	Fair rating with an index value from 61 to 84
FUNCT_CLASS	Functional Classification (see Route ID, Section 2)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
HPMA	Highway Pavement Management Application
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
LC	Longitudinal Cracking
MRR	Manually Rated Route
MRL	Manually Rated Line
MRP	Manually Rated Polygon
N/A	Not Applicable
NC	Not Collected
PATCH	Patching and Potholes
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating
PKG	Parking Area
Poor	Poor rating with an index value of 0 to 60
RCI	Roughness Condition Index
SC	Structural Cracking
SCR	Surface Condition Rating
TC	Transverse Cracking