



**Federal Highway Administration  
Office of Federal Lands Highway**

**2019**

***The Year in Review***



U.S. Department of Transportation  
**Federal Highway Administration**



## ***From the desk of the Associate Administrator***

This report celebrates another year of accomplishments by the Federal Highway Administration, Office of Federal Lands Highway (FLH). During 2019, FLH administered a \$1.5B program for our Federal Land Management Agency partners (FLMA), Native American Tribal partners, and other federal, state and local agencies. Projects accomplished last year ranged from highways and bridges in our National Parks, Forests, Wildlife Refuges, and other federal lands as well as projects for states and local communities on roads accessing federal lands.

Last year, over half of the \$1.5B in funds obligated were for State DOT projects. This highlights FLH's role in providing design and construction assistance to not only our core Tribal and Federal Agency partners, but also our role in assisting State Departments of Transportation in delivering unique projects requiring FHWA assistance. During 2019, FLH completed projects for all our partner agencies that improved 2,500 lane-miles of road and 195 bridges. In addition, we assisted our Tribal partners as they delivered almost \$500M in vital transportation improvements for tribal communities.

As I write this, our nation is in the midst of a national emergency. FLH is continuing our operations as best as possible during these unprecedented times, and is already preparing to assist as our nation rebuilds our economy and returns to the "new normal." While we have yet to see what the "new normal" will look like, we know that FLH will be asked to assist and FLH stands ready to do our part in rebuilding our nation's infrastructure. We will assist tribal communities to build capacity to better meet their transportation challenges and assist our federal, state, and local partner agencies to meet the challenges they face in rebuilding our nation's economy.

This year's report focuses on People, Partners, and Projects. When I joined FLH four years ago I brought with me the concept that our mission in FLH is a mission of taking care of our People, so we can meet our Partner's needs, and deliver great Projects. This year's Accomplishments Report is about all three. The next several pages showcase our people, our partners, and our projects. Please take a few minutes to see what we accomplished!



A handwritten signature in black ink that reads "Tim Hess".

***Timothy G. Hess, P.E.  
Associate Administrator for Federal Lands  
Federal Highway Administration***

*Standing at the top of a large culvert installation on the WFL Nestucca River Back Country Byway project; Tim Hess (center) recognizes the efforts of Blaine Johnson, Project Engineer (left) and Josh Taylor, (right) an environmental protection specialist on a rotational construction assignment. Both individuals were presented with Federal Lands commemorative coins in appreciation for successful management of multiple culvert installations within important regulatory permit time frames. Near Tillamook, Oregon*

# Office of Federal Lands Highway

## The Year in Review

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For additional information please visit [flh.fhwa.dot.gov](http://flh.fhwa.dot.gov) or contact our offices:

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*Images throughout this report unless otherwise noted were taken by FHWA employees. Special thanks to all contributors.*

Front Cover: Warren Wagon Road, Payette National Forest, Idaho  
 Back Cover: Seneca Nation of Indians Gateway Trail, Salamanca, New York





## VISION

**To be the partner of choice  
to Federal Lands Management Agencies and Tribes.  
We will implement innovative transportation solutions  
that provide access to and through public lands.**

## MISSION

**Improving transportation  
to and within Federal and Tribal Lands  
by providing technical services  
to the highway/transportation community,  
as well as building accessible and scenic roads  
that ensure the many national treasures,  
within our Federal Lands, can be enjoyed by all.**



## Our Role

The Federal Highway Administration (FHWA) Federal Lands Highway Program (FLHP) was established in 1982 to promote effective, efficient, and reliable administration for a coordinated program of public roads and bridges; to protect and enhance our Nation's natural and cultural resources; and to provide needed transportation access for Native Americans. The Federal Government, through various Federal Land Management Agencies (FLMAs): the **National Park Service (NPS)**; **USDA Forest Service (FS)**; **U.S. Fish and Wildlife Service (FWS)**; **Bureau of Indian Affairs (BIA) and Tribal Governments**; **Bureau of Land Management (BLM)**; **Department of Defense (DOD)**; **U.S. Army Corps of Engineers (USACE)**; **Bureau of Reclamation (USBR)**; and **Presidio Trust**, have ownership responsibilities for more than 30% of the Nation's land. This responsibility covers more than 500,000 miles of public and administrative roads on federal land across the U.S. and its island territories.

The Office of Federal Lands Highway (FLH) is relied upon by these partners to solve and manage unique challenges that are wide-ranging in environment, geography and complexity, through engineering solutions that are sensitive to the context of the land. We are often confronted by unique terrain, work restrictions, and challenging deadlines. Whether it is building highly visible and political projects, constructing roads that are national landmarks, or providing critical access on low-volume transportation facilities, FLH is at the forefront of consistently delivering distinct and sound engineering projects. FLH consists of a Headquarters Office (HFL) in Washington, District of Columbia and three field Division Offices: Eastern Federal Lands (EFL) in Sterling, Virginia; Central Federal Lands (CFL) in Lakewood, Colorado; and Western Federal Lands (WFL) in Vancouver, Washington.

Federal Lands' role is categorized into two areas: Business Operations and Engineering. Business Operations addresses stewardship and oversight for our resources, as well as management and oversight of the program, totaling over \$1 billion per year. Engineering is the development of projects from scoping and preliminary design through the construction of a project.

FLH is uniquely enabled and entrusted to administer many different types of funds to facilitate transportation improvements for our Partners.

The Program and our role continue to expand to include more federal partners and road networks. FLH expertise and credibility has grown to deliver a wider variety of transportation projects and improvements nationwide.

### *Our engineering and technical expertise includes:*

- Construction Supervision and Inspection
- Consultant and Construction Contract Acquisition
- Contract Administration
- Design Visualization
- Environmental Compliance
- Funds Management
- Geotechnical Design
- Highway and Bridge Design
- Hydraulics and Hydrology
- Intelligent Transportation Systems
- Materials Sampling & Testing
- Plans, Specifications and Estimates
- Project Management
- Program Administration
- Road and Bridge Inventory and Inspection
- Safety
- Survey and Mapping
- Technical Assistance
- Technology Deployment
- Traffic
- Transportation Asset Management
- Transportation Planning

*We employ practices and techniques of the FHWA Every Day Counts Innovations (EDC), designed to shorten project delivery, enhance durability and safety, improve environmental sustainability, and increase efficiency through technology and collaboration in our daily business.*



## People

Our most valued asset is our people; they are the key component to our continued success. We encourage our employees to build diverse skill sets and technical expertise to remain in step with the increasing diversity of the Federal Lands Highway Program and our partner's needs.

### Innovation & Technology Deployment

Federal Lands applies innovative solutions that meet both the missions of FHWA and our partner agencies. Implementing these innovative solutions affords FHWA the opportunity to learn firsthand how well technologies perform once applied.

#### *Design Visualization and Virtual Reality*

The FLH Design Visualization Team demonstrated a new capability at the EDC-5 Summit in Baltimore and again at the EDC-5 Peer Exchange Workshops in Connecticut and Hawaii. With focus on Advanced Geotechnical Exploration Methods and Virtual Public Involvement, the team incorporated 3D renderings and animations into a portable Virtual Reality (VR) format. This is accomplished by rendering an image or animation in a 360-degree spherical format as opposed to a traditional flat image. The image/animation is hosted online and, by use of QR codes, any participant at a public or partner meeting can view a design visualization with their own smartphone. Inserting a smartphone into a pair of VR goggles allows for an inexpensive yet fully immersive experience "inside" a proposed project.



*3D design visualization via smart phone and VR goggles allows for virtual public involvement.*



### Technical Assistance

Each Federal Lands office provides training, technology deployment, engineering services, and products to an increasing array of partners and customers often with vastly different missions, priorities and approaches.

At the request of our partners, we offer individualized technical assistance, demonstrations and training to advocate for innovation and technology improvements. Outreach to other transportation and resource agencies in the U.S. and abroad fosters the exchange of ideas and the growth of technical expertise.

#### *Bridge Inspection Program (BIP) Highlights*

The BIP team is now using new web-based software, Inspect Tech for structure data collection and report preparation. Use of the software on a handheld device during site inspections allows for greater efficiency, data management and storage.



*Mobile application in use, C&O Canal National Historical Park, Washington, DC.*





## People

During FY 2019 the BIP team based at EFL inspected 1,086 National Bridge and Tunnel Inventory (NBI/NTI) structures, transmitted 997 inspection reports, updated load ratings for two different types of emergency vehicles, and completed scour studies for structures throughout the U.S.

The BIP team working out of WFL performed 350 NBIS bridge inspections for BLM, NPS and Tribes and hosted one rotational employee from WFL Construction for a Bridge Inspection Assignment. CFL performed 145 inspections including structures and tunnels for NPS, Tribes and DoD.



*BIP "Snooper" vehicle in use, wind meter mounted on bridge is monitored remotely, Blue Ridge Parkway, VA*



*Under Bridge inspection via waterway, Colonial Parkway, VA*



*The many different perspectives on bridge inspection, Sequoia & Kings Canyon National Parks, CA*

## National Road Inventory Program Highlights

The RIP team conducted inspections throughout Alaska in summer 2019. Gravel road assessments were a major focus and the team collected condition of FLTP roads for the BLM, USFS, and USACE along with the standard cyclic inspections for NPS and FWS. RIP has incorporated the use of GoPro cameras to record images/video on unpaved roads and a new online website (Pathweb) was opened for viewing data and video collected on all NPS paved roads. Other highlights include:

- Entering the final years of NPS Cycle 6 with inspections in the Regions formerly known as Southeast and Northeast
- FWS Cycle 5 completion of Region formerly known as Region 3 and continued inspections in the Regions formerly known as Regions 1 and 5
- BOR Cycle 1 inspections in the Upper Colorado and Mid-Pacific Regions
- Ground verification study to validate gravel and native road rating methods and alignment with PASER scores
- Defense Access Roads (DAR) at Minot AFB in North Dakota were inspected by the RIP team for the first time.
- RIP worked with FHWA-North Dakota and North Dakota State University to pilot the use of a remote controlled vehicle to capture video inside culverts for DAR inspections



*RIP remote controlled tool in use for culvert inspections.*



*RIP Data Collection Vehicle (DCV) captures updated video on Denali Park Road for Cycle 6.*



## People

### This is how we work...

For many Federal Lands employees working “out in the field” is not just a job, in many respects it’s a lifestyle and often an adventure!



*Geotechnical Engineers investigating a potential thermal feature during a field review, Yellowstone River, Montana Wyoming*



*Breakfast in Badlands — Assignments most often take place in such remote locations that preparedness takes on whole new meaning. Site investigation, Badlands National Park, South Dakota*



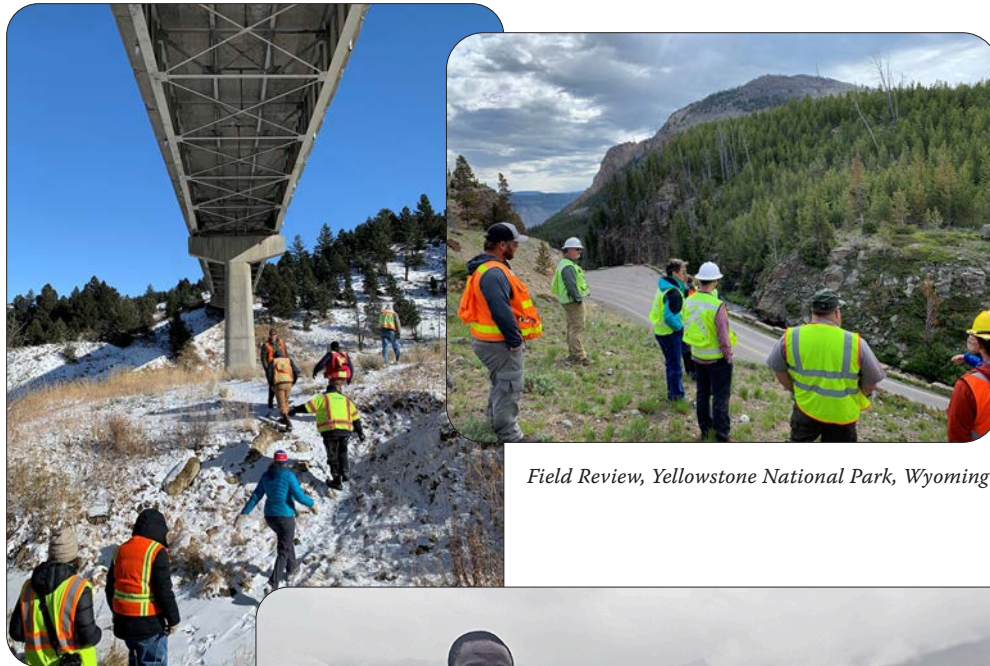
*Project Scoping Team Meeting, Denali National Park & Preserve, Alaska*



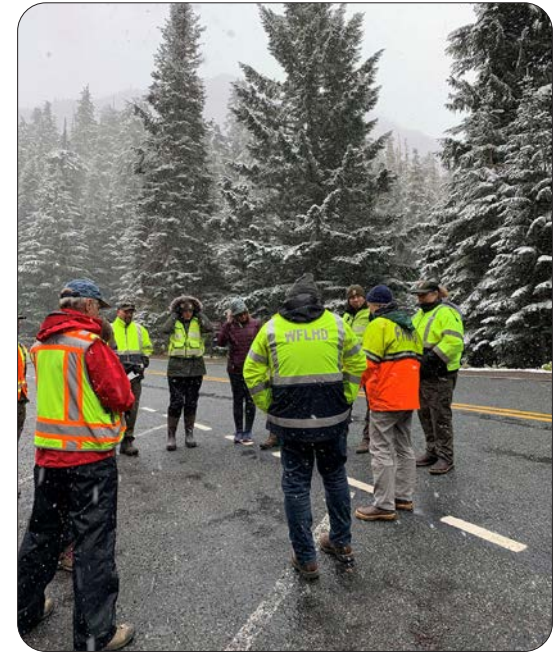
*Safety Audit, Hawaii Volcanoes National Park, Hawaii*



## People



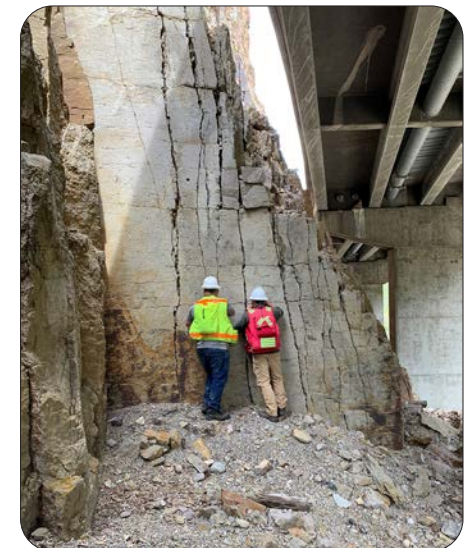
*Field Review, Yellowstone National Park, Wyoming*



*Bridge Replacement Scoping Meeting, Mount Rainier National Park, Washington-*



*Design & Pavement Team, Project Scoping Trip, Great Smoky Mountains National Park, Tennessee*



*Geological Survey, Yellowstone National Park, Wyoming*



## People

### George Mason University (GMU) Civil, Environmental and Infrastructure Engineering Course

During Fall 2019 the Eastern Division hosted 10 students from GMU offering specialized training in Survey and Mapping, Geotechnical Design, Construction, Bridge Design, and Bridge Inspection.



*Survey & Mapping Sessions, Eastern Division Office, Sterling, Virginia*



*Construction Field Trip, Arlington Memorial Bridge, Washington, DC*



*Geotechnical Design Session, Eastern Division Office, Sterling, Virginia*



*Bridge Design Session, Eastern Division Office, Sterling, Virginia*



*Bridge Inspection Field Trip, Turkey Run Bridge, George Washington Memorial Parkway, Virginia*





*Several award recipients pose with FLH Associate Administrator, Eastern Division Director and Chief of Business Operations at DOT Headquarters Ceremony, Washington, DC*



## People

### Awards & Recognition

#### *Secretary's Partnering for Excellence Award —*

Mounir Abouzakhm (EFL) and Lisa Landers (EFL) were recognized for teamwork and diligence in developing the draft environmental assessment for the Baltimore/DC Loop Project.

Adam Larsen (HFL) was recognized for spearheading efforts to accelerate the implementation of Local Road Safety Plans in 39 counties, across nine states.

#### *Administrator's Superior Achievement Award —*

David Cremer (HFL) was recognized for stewardship of the Office of Tribal Transportation program and its goal to place the environmental analysis and decision-making power into the hands of the Tribes, and streamlining the National Environmental Policy Act process.

Jeffrey Mann (HFL) was recognized for expertise in budgetary and policy matters and for his commitment to strengthening Agency internal controls.

Manuel Sanchez (HFL) was recognized for stewardship and oversight of the Tribal Transportation Program as well as the Emergency Relief for Federally Owned Roads Program and Transportation Investment Generating Economic Recovery funds.

Patrick Kowing (CFL) was recognized for superior leadership as the CFL Materials Lab Manager and for improving lab processes which promote effective project delivery.

Gregory Schertz (CFL) was recognized for unwavering commitment to advancing transportation safety and for contributions to the FHWA/FLH Safety discipline.

Kelly Wade (CFL) was recognized for outstanding leadership and for consistently providing NEPA advice to help move projects to construction. Vivian Gutierrez (EFL) was recognized for outstanding communication and collaboration with FHWA staff, partners, and external stakeholders during the development of the new Federal Lands Stewardship and Oversight guidance.

Christopher (Shawn) Long (EFL) was recognized for exceptional contracting expertise, leadership, and commitment to meeting our partner's requirements, enabling the Agency to deliver the FLH program, and build relationships with both traditional and non-traditional partners.

Anthony Maloche (EFL) was recognized for outstanding performance,

efficiency, prioritization of tasks, leading to a satisfying working relationship with FLH partners and for continuously incorporating innovative techniques to improve the FLH Pavement Management System.

Stephen Chapman (WFL) was recognized for critical technical expertise during the development of OpenRoads Designer software and for creating the Design Support System seminar.

Glenn Kutzera (WFL) was recognized for leadership in implementing significant changes in how construction contract plans, specifications, and estimates are reviewed and finalized.

#### *FHWA Leadership Award —*

Marilyn Dodson (CFL) was recognized for providing inspirational leadership and championing the development of the geotechnical discipline.

#### *Excellence in Teamwork Award —*

The Baltimore Washington Parkway Emergency Repairs Team was recognized for outstanding strategic efforts to address severe pavement distress and safety concerns on the Parkway. At the request of the National Park Service, the EFL Pavements Team mobilized on March 14th to assess crumbling and deteriorated sections of the Baltimore-Washington (B-W) Parkway from MD 198 to MD 175. Severe pavement distress had become a significant safety concern, causing reduced speeds, vehicle damage, accidents and increased media attention requiring immediate action. Two projects, were fast-tracked to award by early April 2019 via emergency letter contracts and construction was complete by August:

David Dajc (EFL)  
Kurt Dowden (EFL)  
Mohammed Elias (EFL)  
Monique Evans (EFL)  
Alazar Feleke (EFL)  
Christopher Hansen (EFL)  
Milton Hsieh, Office of Chief Counsel  
Ahmed Lamarre (EFL)  
Christopher Long (EFL)  
Khadija Ngozi-Bullock (EFL)  
Angel Pagan Ocasio (EFL)  
Isbel Ramos-Reyes (EFL)  
Katerina Roman Gonzalez (EFL)  
Thomas Scott (EFL)



## People

The I-95/PA Turnpike Team was recognized for herculean effort and tireless commitment which ensured the completion of an important component of the Pennsylvania Turnpike/I-95 Interchange Completion Project.

Amy Fox (FLH)  
Renee Sigel (CFL)

***Sybil Hillis Commitment to Excellence Award*** — Regina Ownby (EFL)

***2019 Structures Discipline Awards*** — Calvin Chong (EFL) was recognized for outstanding Customer Service provided to various federal agencies, and his support to the Emergency Relief for Federally Owned Roads Program.

***Acquisition Discipline Awards for 2019*** — Christopher (Shawn) Long, Contract Specialist (EFL) was recognized for demonstrating excellent customer service to internal and external customers, to include the FHWA Office of Acquisition and Grants Management. He has and continues to go above and beyond to ensure the mission is served and program goals are achieved.

***Design Discipline Recognition Awards*** — Angela Johnson, Senior Technical Specialist (CFL) has been a major contributor in the implementation of the OpenRoads Designer design software in FLH taking the lead in problem solving. In addition, she actively supports the FLH Engineering Systems team, the Special Contract Requirements team, and the Architectural and Engineering oversight team. Angela also mentors and coaches engineers to aid in their professional development and success, she understands that developing engineers ensures that FLH and FHWA goals and initiatives are achieved.

Juan Aguirre, Engineering Systems Coordinator (WFL) has been leading the FLH conversion to the latest technology in highway design software, OpenRoads Designer. This tool will totally change the methodology for designing projects and Juan's in-depth knowledge of highway construction, design, and software has helped him work with the contractor to develop a software package that would meet the needs of all three FLH project delivery offices. Juan's leadership in this initiative directly supports agency innovation goals and, as well, enables the contracting community to take advantage of the latest technology in highway construction.

***2019 Project Management Discipline Awards*** — Nathan Allen, Project Manager/Construction Operations Engineer (CFL) has demonstrated his technical, leadership, and interpersonal abilities during both the design and construction phases of projects. Over his 10 years within the Branch Mr. Allen has continually taken on diverse and challenging projects with a variety of partners. In his tenure he has had the opportunity to lead projects in the

Forest Highway, Bureau of Land Management, Park Road, Emergency Relief for Federally Owned Roads, Federal Lands Access Program, and Federal Lands Transportation Program. Currently, Mr. Allen leads projects in the National Park Service Pacific West Region in the Yosemite, Sequoia, and Kings Canyon parks. Since 2018, he has actively managed thirteen projects in design and construction with combined construction costs that exceeded \$100 million. While the short construction season and high visitation poses a challenge in managing active construction projects, he routinely overcomes those challenges to meet our partner's expectations and mission requirements.

***2019 Corporate Award & DOT 8th Annual Acquisition & Financial Assistance Team Award for Innovation*** —

The Federal Lands Federal Acquisition Certification (FAC)/Program and Project Manager (P/PM) Certification for Federal Lands Highway Project Managers Team was recognized for executing a structured plan for FLH Project Managers to obtain FAC/PM Level III certification.

This team worked with FHWA Headquarters and the Office of the Secretary to execute a structured plan for all identified Federal Lands Project Managers to obtain FAC P/PM Level III certification. The plan also included a schedule for Project Managers to maintain continuous learning and skills in Federal Acquisition Institute Training Application System (FAITAS). By determining that the base requirement for FAC PM Level III was met, the Project Managers could forego completing Level I and II certifications and instead move forward with a 10-day/80-hour Capstone Training Course (for experienced Project Managers). This strategy will save 160 hours of training for approximately 40 FLH Project Managers for a total of approximately 6,400 training hours and crediting our PMs with the experience they have. Not only is this saving training hours, but the FLH Project Managers will also be certified as FAC PM Level III sooner than if they had gone through all three trainings. Once the proposed strategy was in place, the team worked to procure, schedule and coordinate between the three FLH divisions to minimize the impact 10 days of training would have on the delivery of the program for all the FLH Project Managers involved:

Jan Beaver (EFL)  
Nicole Chojnacki (CFL)  
Brent Coe (WFL)  
Elizabeth Garrido (EFL)  
Rita Greico (EFL)  
Wendy Longley (CFL)  
Douglas Taylor (WFL)  
Michael Traffalis (WFL)  
Scott Whittemore (EFL)



## **Partners**

### **Program Overview**

#### **Federal Lands and Tribal Transportation Program (FLTTP)**

The FLTTP, established under the Moving Ahead for Progress in the 21st Century Act (MAP-21) and continued under the Fixing America's Surface Transportation Act (FAST Act), authorizes annual funding for three primary programs: the Federal Lands Access Program (FLAP), the Federal Lands Transportation Program (FLTP), and the Tribal Transportation Program (TTP). Through these programs, FLH works with numerous Federal agencies and Indian Tribes, as well as State and Territorial partners, to deliver projects.

#### **Federal Lands Access Program (FLAP)**

The FLAP, authorized at \$265 million in FY 2019, provides flexibility for a wide range of transportation projects in the 50 States, the District of Columbia, Puerto Rico and the US Virgin Islands. FLAP was established to improve state and county transportation facilities that provide access to high-use recreation sites and economic generators within Federal lands.

#### **Federal Lands Transportation Program (FLTP)**

The FLTP, authorized at \$365 million in FY 2019, provides funding for the management and upkeep of approximately 50,000 miles of federal public roads and other assets comprising partners' Federal lands transportation facility inventory. The Program provides funding to the NPS, FS, FWS, BLM, BOR, USACE, and eligible independent federal agencies (IFAs). To date, the Presidio Trust Corporation is the sole IFA to be included in the FLTP. Presidio Trust Corporation began receiving funds in 2017. Of the three programs that comprise the FLTTP, the FLTP incorporates performance-based management principles outlined in MAP-21 and reinforced under the FAST Act. The FLTP places emphases on performance goals defined by the Secretary of Transportation and FLMAs, and is intended to target funds toward multi-modal transportation facilities that access high-use recreation destinations and federal economic generators within the federal estate.

#### **Tribal Transportation Program (TTP)**

The TTP, authorized at \$495 million in FY 2019, provides funds to 567 federally recognized Tribes to improve the transportation systems located within, or that provide access to, Indian country. These roads, bridges, trails and transit systems most often provide basic access to community services and help to enhance the quality of life of Tribal members. Federal Lands co-administers the TTP with the BIA and is responsible for the primary

stewardship and oversight of Program funds. Approximately 135 of the Tribal governments operate their TTP directly through Program Funding Agreements with FHWA.

#### **TTP Bridge Program**

TTP bridges are funded under the TTP Bridge Program by a set-aside of up to 3 percent of the TTP funds. Funds made available for the TTP Bridge Program for FY19 totaled \$13.5 million. There were 33 bridge applications received, for a total funding request of about \$34 million. The program funded 21 bridge applications with the \$13.5 million allotted.

#### **Nationally Significant Federal Lands and Tribal Transportation Projects (NSFLTTP)**

The NSFLTTP, created under the FAST Act, is intended to provide a reliable source of funding for major, high-cost projects that typically cannot be funded with FLTTP resources due to the scope and expense of the project. This program is funded through the General Fund at a maximum of \$100 million per year. It did not receive an appropriation until FY 2018, when it received \$300 million, and FY 2019, when it received \$25 million. The program made 6 awards in FY 2019, based on applications of need.

#### **Defense Access Roads Program (DAR)**

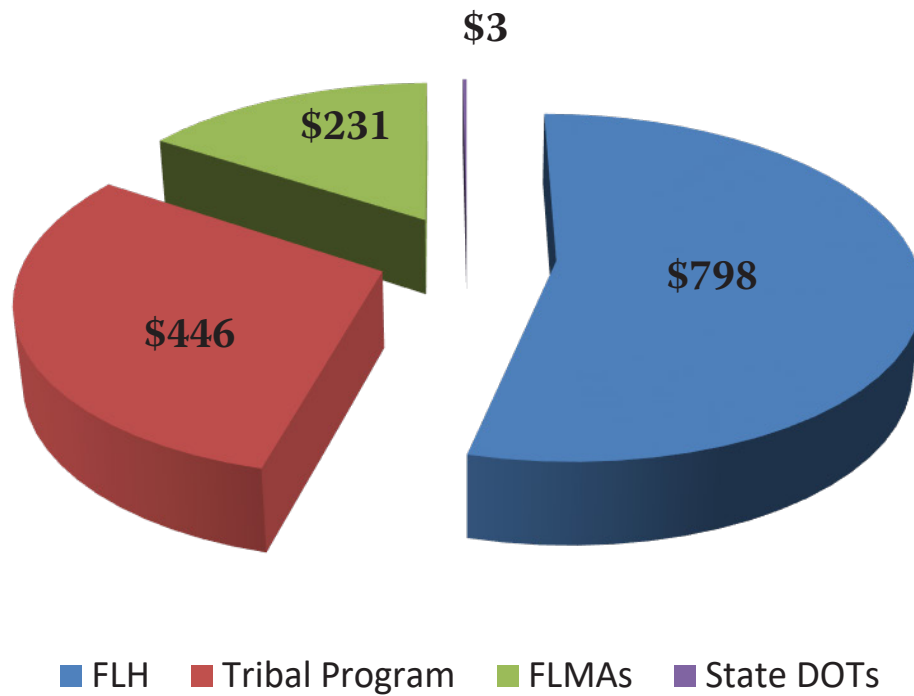
The DAR Program is a jointly administered program that provides a means for the military to pay their share of the cost of public highway improvements necessary to mitigate an unusual impact of a defense activity. An unusual impact could be a significant increase in personnel at a military installation, relocation of an access gate, or the deployment of an oversized or overweight military vehicle or transporter unit.

#### **Emergency Relief for Federally Owned Roads (ERFO)**

The ERFO Program, assists federal agencies with the repair or reconstruction of Tribal transportation facilities, federal lands transportation facilities, and other federally owned roads that are open to public travel, which are found to have suffered serious damage by a natural disaster over a wide area or by a catastrophic failure. The ERFO program is not intended to cover all repair costs but rather supplement Federal Land Management Agency (FLMA) repair programs.



FY 2019 Funds Obligated  
\$1.48 Billion



FAST ACT FY 2019  
PROGRAM FUNDING

\$365 million FLTP  
\$265 million FLAP  
\$495 million TTP

PROJECT DELIVERY SUCCESS

**2488** Lane Miles Improved

**103** Bridges Improved

**7** Bridges (New)

**85** Bridges (Rehabilitated)

PROGRAM DELIVERY SUCCESS

**81%**  
Funds On The Ground

**90.6%**  
Obligation Rate



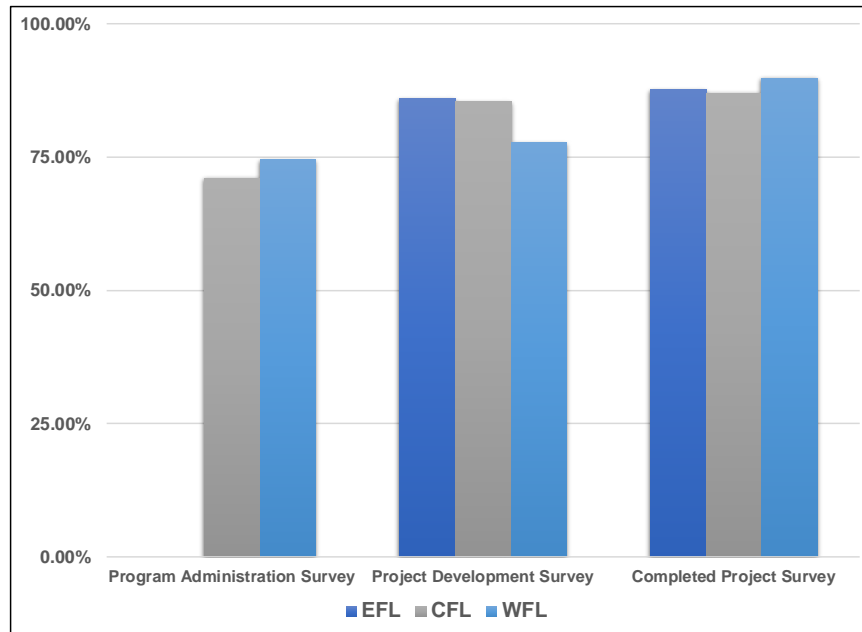
## Partners

Our definition of partner is diverse, ranging from state and territorial governments, traditional Federal Agency partners with strong resource protection missions, to our Tribal partners, focused on building self sufficiency and providing basic access to community services and improved quality of life for their people.

### Partner Satisfaction Survey

The questions in our yearly survey touch on all aspects of program administration from policy and communication to day-to-day program management. Program management results are reflective of the many adjustments made this past year. Completed project results exceeded the 85% target for the third year in a row. This highlights the overall satisfaction of our partners with the final product, the constructed project.

**FLH Partner Satisfaction Survey Results**



With the numerous Partners and Programs FLH interacts with, the Tribal Transportation Program (TTP) is the largest. The Office of Tribal Transportation (OTT) administers the TTP and provides support for all FHWA activities affecting Tribal transportation. This support includes the administration of TIGER/BUILD grants awarded to Tribes, and the transfer of funds from States and other local governments to Tribes through the 202(a)(9) transfer process.

In addition, the FHWA Office of Tribal Transportation manages the Tribal Transportation Program Bridge Program and the Tribal Transportation Program Safety Fund for all federally recognized Tribes. These grant programs are set-asides from the overall Tribal Transportation Program.

### The Work of the Tribal Transportation Program Safety Fund

Utilizing a grant from the Tribal Transportation Program Safety Fund, the ice roads crew from the Native Village of Napaimute acquired new technology that is now being used in combination with traditional knowledge to help monitor ice thickness. The device uses ground penetrating radar (GPR) and GPS technology to constantly measure and record ice thickness. As the device is towed on a sled, the measurements are wirelessly transmitted to an in-cab computer, which generates nearly instantaneous reports from the data. This safety project is one example of the 648 projects (\$60.1 million) improving transportation safety in Tribal areas that have been funded by the TTPSF since it was established in 2013.



*Ground penetrating radar sled used to monitor ice road thickness, drill in operation to measure thickness of the ice. Drilling through ice roads to measure their thickness is now only required occasionally to calibrate the ground penetrating radar sled.*



*Office of Tribal Transportation Safety Engineer/Safety Program Manager (left) and Transportation Director for the Native Village of Napaimute (right) monitoring ice roads near Bethel, Alaska*



## Partners



*OTT Tribal Coordinators provide program information at a Tribal training conference.*



*Pawnee Nation President and Department of Transportation staff, FLH Associate Administrator, and Oklahoma Division Administrator pose with OTT staff while touring the Nation's CM/GC projects.*

Associate Administrator for Federal Lands, Oklahoma Division Office Administrator and staff, along with OTT staff visited with FHWA Agreement Tribes in Oklahoma. They learned about the diverse Tribal Transportation Programs administered by the Tribes and were able to see samples of their work in the field. Tribes shared their successes and in some cases, challenges to their programs. The trip included visits with the Miami Tribes of Oklahoma and the Chickasaw, Cherokee, Pawnee, Citizen Potawatomi, and Osage Nations.



*Chickasaw Nation Executive leadership and Chickasaw Nation Roads Department staff pose with Federal Lands Associate Administrator, Oklahoma Division Administrator and OTT staff.*



## Projects

### Tribal Partner Delivered Projects



*The Chickasaw Nation celebrated completion of a new transit facility, Chickasaw Nation Transportation Services. This facility provides an on site wash bay, and shelters for buses. Transportation Services typically provides more than 43,000 rides for hundreds of Native Americans and community members to medical appointments, job interviews and worksites.*



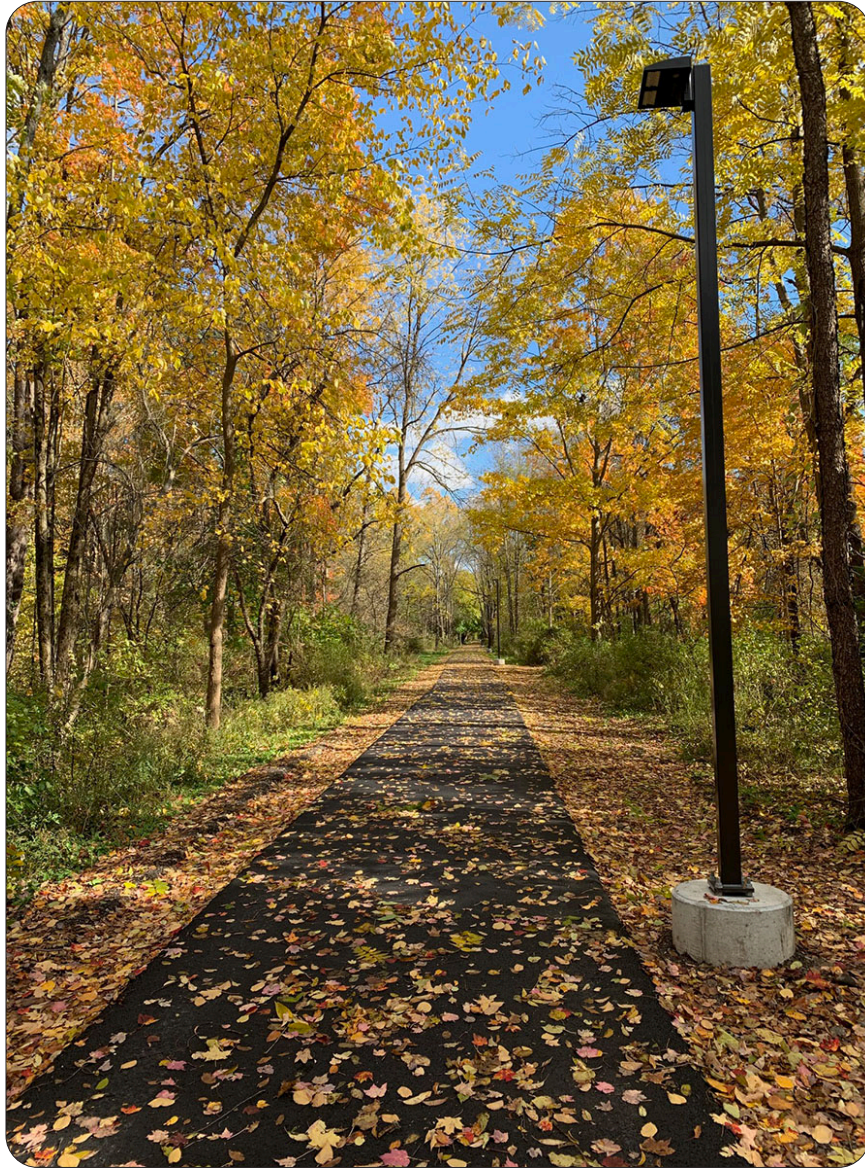
*Pathways leading to the Osage Nation War Memorial and connecting to the rest of the Tribe's campus and community pathways were funded with TTP. U.S. Osage Nation's War Memorial, Oklahoma.*



*Community Streets improvements Native Village of Elim, Alaska*



## Projects



*Pennsy Trail, a newly revitalized multi-use trail project, was completely administered by the Seneca Nation through a 202(a)(9) agreement. A former railroad route on the Western New York and Pennsylvania Railroad System, the trail was widened and paved to include safety enhancements with installation of lighting, bollards, signage and emergency call boxes. Salamanca, New York*



## Projects



*Littlewater Chapter House Access Road (Before and After) represents the first Navajo Nation project built utilizing their own force account crews, resulting in significant cost savings. As a dirt road it was often impassable when wet, the completed project now provides reliable and safe access to school buses, and emergency vehicles. Navajo Nation, New Mexico*



*Dwight Mission/Sequoyah Landing Road and Sequoyah Bay Road rehabilitation project starts at the gateway of National Cherokee Nation Park and terminates north at I-40. The park is an 800 acre Tribal property that is open to the public, adjacent to Robert S. Kerr Reservoir, and is part of the Arkansas River system. The improved roadway provides access to residential and recreational areas supporting the Nation's tourism destinations. Sequoyah County, Oklahoma*





**Projects**



*The Seneca Nation of Indians Gateway Trail Project provides a paved, ADA compliant, pedestrian trail connecting Tribal administration buildings, museum, casino, and the Tribal community. The trail project included installation of lighting, benches, crosswalks and security features. Salamanca, New York*



## Projects

### Federal, State and Local Partner Projects

#### FLAP Project Award Recognition

CFL was presented a commendation of appreciation from California Senator Catherine Cortez Masto in recognition of the Meeks Bay Trail FLAP Projects' contributions to the Lake Tahoe Area. The project was also awarded the Tahoe Regional Planning Agency "Best in Basin Award". The 0.7 mile paved multi-use path was constructed along the west shore of Lake Tahoe. Construction included a 10-foot-wide, asphalt paved path with sculpted concrete faced GRS retaining walls and a 65 foot prefabricated geosynthetic reinforced soil-integrated bridge system (GRS-IBS), meeting the criteria of FHWA "Every Day Counts" Initiatives.



*Meeks Bay Trail, California*





## Projects

### *FHWA Administrator Project Award Recognition*

At the request of the National Park Service, the Eastern Federal Lands Pavements Team mobilized to assess crumbling and deteriorated sections of the Baltimore-Washington (B-W) Parkway from MD 198 to MD 175. The severe pavement distress presented significant safety concerns, calling for enforcement of reduced speeds. Two projects, were fast-tracked to award in early April 2019 via emergency letter contracts with construction completed by August 15, 2019.



*Baltimore Washington Parkway Before and After Pavement Condition, Maryland*





## Projects



Aerial courtesy of Steve Tietze

*Aerial photograph of the Truckee River Bridge, Tahoe City Roundabout project includes a new quarter-mile long segment of California State Route 89 with a new 153-foot bridge crossing over the Truckee River, and roundabouts on the south end of the realignment next to the Tahoe City Transit Center and the north end near the Caltrans Maintenance Station. Multi-modal improvements, such as new paved shared-use paths and bike lanes, were incorporated to enhance connectivity and safety for pedestrians and cyclists. Additional project features included drainage improvements, rock retaining walls, signing, striping, lighting, new sewer and gas lines, and landscaping with pollinator-friendly plants.*



**Projects**



*Truckee River Bridge, Tahoe City, California*



*Tahoe City Roundabout, California*



*Segment of new section of California State Route 89*



## Projects



*Brainard Lake Road Project improvements included widening to accommodate cyclists, drainage, sight distance and upgraded signage and striping. Brainard Lake Recreation Area, Arapahoe and Roosevelt National Forests, Colorado*



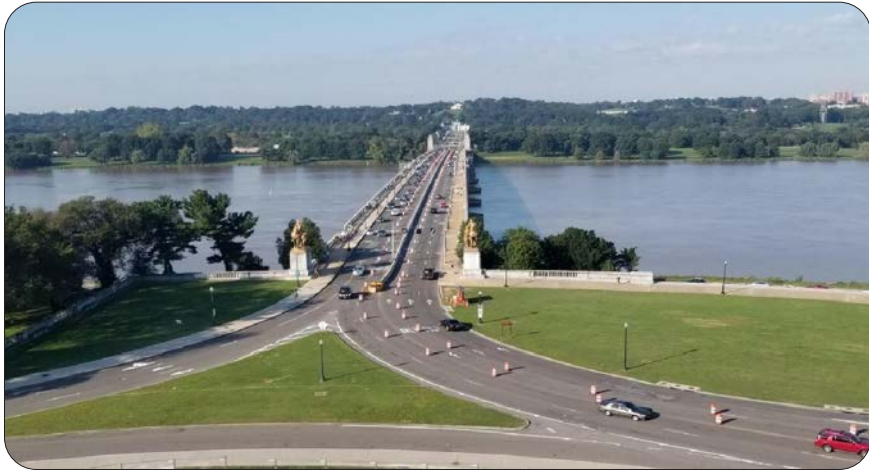
## Projects



*Aerial View of the completed Manning Crevice Bridge, a suspension bridge spanning the Salmon River illustrates the remoteness and difficulty accessing the site. The Bridge, at more than 300 feet long, includes a 75-foot-tall steel tower on the north end and is one of only seven in the world of its type. The new bridge replaces one constructed in 1934 by the Civilian Conservation Corps (CCC). Interpretive signs at the site of the new bridge explain the history of the original CCC bridge and the surrounding area. A portion of the old structure was preserved and is on display at Riggins City Park. Riggins, Idaho.*



## Projects

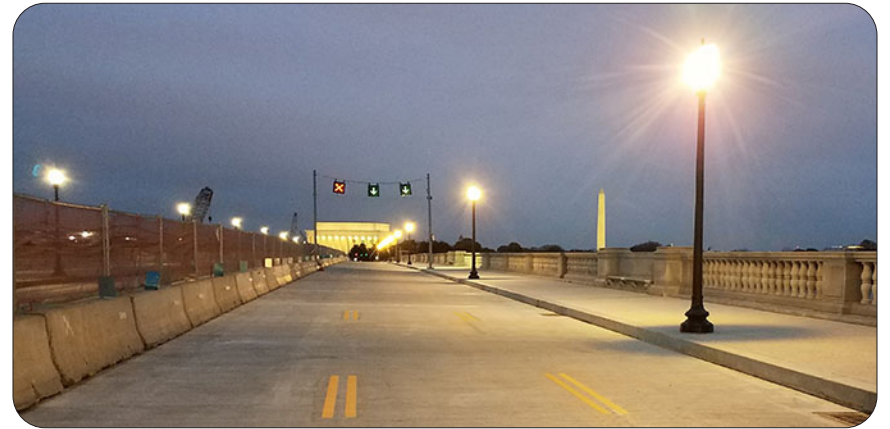


*Arlington Memorial Bridge Rehabilitation completion of Phase 1, Washington DC/Arlington, Virginia*

*Precast concrete deck installation*



*Installation of restored drawbridge face maintains the historic character of the bridge, Arlington Memorial Bridge, Washington DC/Arlington, Virginia*



*View of the deck, Phase 1 complete, Arlington Memorial Bridge, Washington DC/Arlington, Virginia*

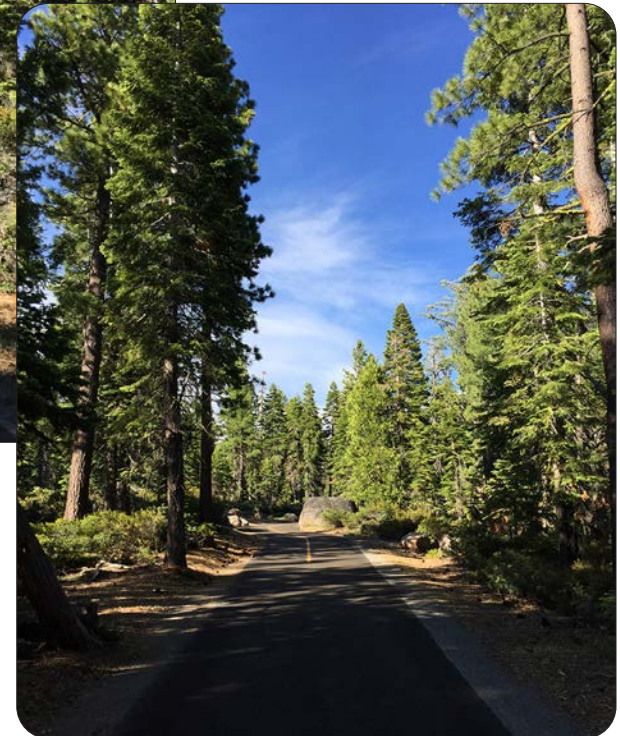




**Projects**



*Dollar Creek Shared Use Trail, California*





**Projects**



*All photos on this page depict improvements made to the East Side of Cottonwood Pass, Uncompahgre and Gunnison National Forests, Gunnison County, Colorado*





## Projects



*All photos on this page depict improvements to Cottonwood Pass West Below Rocky Mountains Summit, Chaffee County, Pike and San Isabel National Forests, Colorado*





## Projects



*Views of Warren Wagon Road located along Payette Lake and the North Fork Payette River was reconstructed with frost-resistant pavement improving safety and drainage while minimizing future maintenance. Valley County, Idaho*



*President's Park and White House pavement resurfacing work and full depth pavement patching completed on Ellipse Road, South Grounds Road, and associated connection roads. Washington, DC*





## Projects



*Mormon Lake Road, Completed Reconstruction Project, Coconino National Forest, Arizona*



*The Bayside Wildlife Drive and Visitor Center Road Project reduced maintenance requirements and costs extending the useful life of the routes while incorporating vehicle collision protection for the local endangered population of ocelots in the area. The project also allowed for vehicle access to the Refuge. Laguna Atascosa National Wildlife Refuge, Texas*



## Projects



*Old US60 Bridge Replacement Project in process, the old bridge (shown on the left) built in 1930 and determined eligible for listing on the National Register of Historic Places will remain in place but not in use, Sevilleta National Wildlife Refuge, Cibola National Forest, New Mexico*



*The I-564 Intermodal Connector Design Build Project connects the existing I-564 through Naval Station Norfolk to Norfolk International Terminals and Virginia Port Authority, below is the new Commercial Vehicle Inspection Station for trucks entering the Norfolk Naval Base and Ramp D (above) leaving the Port and Naval Station. Norfolk, Virginia*





**Projects**



*Completed Reconstruction of Hoover Dam Access Road and Parking Area, Nevada/Arizona*





## Projects



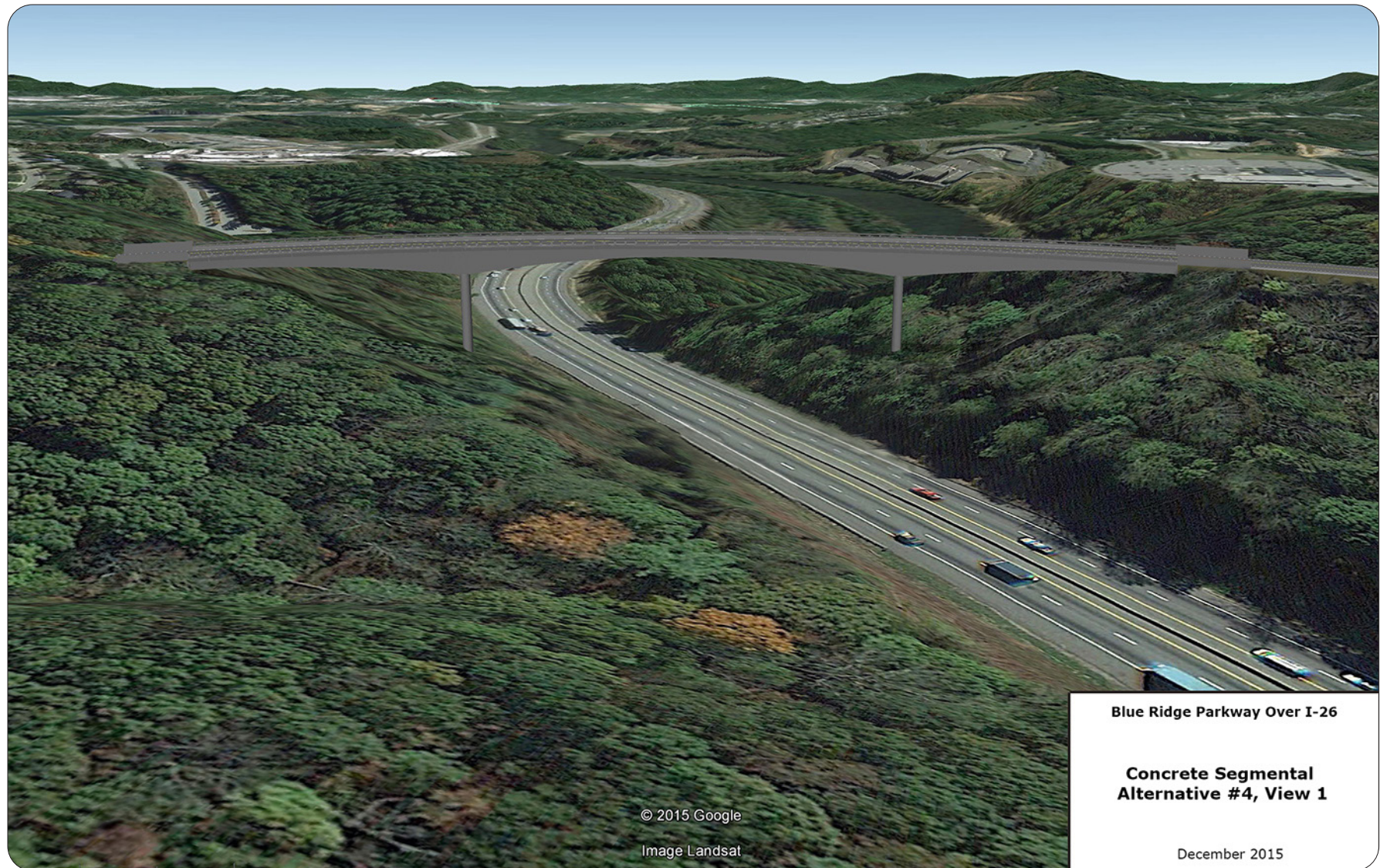
*Reconstruction of Beach Drive, with view of completed project below, Rock Creek Parkway, Washington, DC to Maryland State Line*

*Completed section of Harvard Street near Beach Drive at National Zoo (below), with new bioretention pond visible to the left. Rock Creek Parkway, Washington, DC*





## Projects



*Completed Design Visualization of Precast Segmental Bridge carrying the Blue Ridge Parkway over Interstate 26. This project was delivered on time and on budget resulting in a set of drawings delivered to our partners, NPS and NCDOT, enabling the project to be ready to advertise within months.*





U.S. Department of Transportation  
**Federal Highway Administration**