

**WEST VIRGINIA PARKWAYS AUTHORITY**  
**ANNUAL OPERATING BUDGET**  
**For the Fiscal Year Ending June 30, 2021**

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\*\* In adopting the Annual Budget, the Authority made the Consulting Engineers' Annual Report, an official part of the Annual Budget, including without limitation the certifications of the Consulting Engineers and their recommended 5-year capital improvement program for the Turnpike, as set forth therein.

**WEST VIRGINIA PARKWAYS AUTHORITY**

**ADOPTED ANNUAL BUDGET - REVENUE BOND COVERAGE  
TRUST INDENTURES - SECTION 512**

**Years Ending June 30, 2021 and 2020**

	<u><b>2021</b></u>	<u><b>2020</b></u>
<b>Coverage Ratios</b>		
Tolls and other pledged revenues	\$ 142,121,000	\$ 149,343,000
Operating expenses	<u>47,047,000</u>	<u>46,457,000</u>
Net system revenues	<u>\$ 95,074,000</u>	<u>\$ 102,886,000</u>
Debt service requirements	\$ 10,282,000	\$ 10,280,000
Renewal and replacement reserve deposit requirement*	<u>18,700,000</u> <u>\$ 28,982,000</u>	<u>18,800,000</u> <u>\$ 29,080,000</u>
Coverage percentages:		
Times Coverage of Debt Service (125% required)	<u><b>924.66%</b></u>	<u><b>1000.84%</b></u>
Times Coverage of Debt Service and Renewal and Replacement Deposit (100% required)	<u><b>328.04%</b></u>	<u><b>353.80%</b></u>

\* Per recommendation of consulting engineer

**WEST VIRGINIA PARKWAYS AUTHORITY**

**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
Operating revenues:				
Toll revenues	\$ 141,796,000	\$ 147,743,000	\$ (5,947,000)	-4.0%
Income from investments	<u>325,000</u>	<u>1,600,000</u>	<u>(1,275,000)</u>	<u>-79.7%</u>
Total revenues	<u>142,121,000</u>	<u>149,343,000</u>	<u>(7,222,000)</u>	<u>-4.8%</u>
Operating expenses:				
Maintenance	<u>19,225,000</u>	<u>18,916,000</u>	<u>309,000</u>	<u>1.6%</u>
Toll collection:				
Customer Service Center	4,059,000	4,059,000	-	0.0%
Toll department	<u>10,966,000</u>	<u>10,941,000</u>	<u>25,000</u>	<u>0.2%</u>
Total toll collection	<u>15,025,000</u>	<u>15,000,000</u>	<u>25,000</u>	<u>0.2%</u>
Traffic control:				
State police	3,952,000	3,697,000	255,000	6.9%
Communications	<u>774,000</u>	<u>774,000</u>	<u>-</u>	<u>0.0%</u>
Total traffic control	<u>4,726,000</u>	<u>4,471,000</u>	<u>255,000</u>	<u>5.7%</u>
Administration	<u>3,029,000</u>	<u>2,981,000</u>	<u>48,000</u>	<u>1.6%</u>
TIC operations	<u>1,407,000</u>	<u>1,407,000</u>	<u>-</u>	<u>0.0%</u>
Non-departmental	<u>3,433,000</u>	<u>3,322,000</u>	<u>111,000</u>	<u>3.3%</u>
Total operating expenses	<u>46,845,000</u>	<u>46,097,000</u>	<u>748,000</u>	<u>1.6%</u>
Net operating revenue	<u>95,276,000</u>	<u>103,246,000</u>	<u>(7,970,000)</u>	<u>-7.7%</u>
Principal and interest	(10,282,000)	(10,280,000)	(2,000)	
Renewal and replacement	(18,700,000)	(18,800,000)	100,000	
Change in renewal replacement reserve	100,000	(3,787,000)	3,887,000	
Change in operating expense reserve	<u>(202,000)</u>	<u>(360,000)</u>	<u>158,000</u>	
Remaining cash flow after DS & R&R	66,192,000	70,019,000		
Capital fund balance - beginning	90,000,000	51,000,000		
On-Turnpike traditional capital PAYGO	19,200,000	35,981,000		
On-Turnpike major capital PAYGO	<u>18,400,000</u>	<u>18,900,000</u>		
Capital fund balance - ending	<u>118,592,000</u>	<u>66,138,000</u>		
Non-toll revenue inc. Caperton Center	<u>(372,300)</u>	<u>2,963,000</u>		
Net revenue	<u>\$ 65,819,700</u>	<u>\$ 72,982,000</u>	<u>\$ (7,162,300)</u>	

**WEST VIRGINIA PARKWAYS AUTHORITY**

**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Maintenance Department</b>				
Personnel:				
Salaries	\$ 8,273,000	\$ 8,001,000	\$ 272,000	3.4%
FICA	633,000	611,000	22,000	3.6%
Workers Compensation	546,000	546,000	-	0.0%
Retirement	756,000	729,000	27,000	3.7%
Health insurance	1,243,000	1,243,000	-	0.0%
WVARF/WC Workshop	292,000	292,000	-	0.0%
	<u>11,743,000</u>	<u>11,422,000</u>	<u>321,000</u>	<u>2.8%</u>
Equipment:				
Parts for equipment	1,018,000	1,018,000	-	0.0%
VMS maintenance contract	12,000	12,000	-	0.0%
Heavy equipment rental	190,000	190,000	-	0.0%
Safety equipment	48,000	48,000	-	0.0%
Equipment maintenance (office)	18,000	18,000	-	0.0%
Motor vehicles fuel and oil	912,000	912,000	-	0.0%
Small equipment purchases	366,000	366,000	-	0.0%
	<u>2,564,000</u>	<u>2,564,000</u>	<u>-</u>	<u>0.0%</u>
Shop supplies and materials				
Mechanic shop	72,000	72,000	-	0.0%
Paint shop	24,000	24,000	-	0.0%
Welding shop	24,000	24,000	-	0.0%
Sign shop	60,000	60,000	-	0.0%
Shop tools	138,000	150,000	(12,000)	-8.0%
Carpentry shop	20,000	20,000	-	0.0%
Utility shop	20,000	20,000	-	0.0%
Toll maintenance	15,000	15,000	-	0.0%
Uniforms	88,000	88,000	-	0.0%
Supplies & postage	95,000	95,000	-	0.0%
	<u>556,000</u>	<u>568,000</u>	<u>(12,000)</u>	<u>-2.1%</u>

**WEST VIRGINIA PARKWAYS AUTHORITY**

**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
Highway Materials:				
Salt & aggregate	1,395,000	1,395,000	-	0.0%
Calcium additive	30,000	30,000	-	0.0%
Roadway pavement	650,000	650,000	-	0.0%
Roadway lighting	25,000	25,000	-	0.0%
Roadway lighting electricity	112,000	112,000	-	0.0%
Accident repair/guardrail	480,000	480,000	-	
Soil sterilization	50,000	50,000	-	0.0%
Bridge maintenance	260,000	260,000	-	0.0%
Hazardous material disposal	65,000	65,000	-	0.0%
	<u>3,067,000</u>	<u>3,067,000</u>	<u>-</u>	<u>0.0%</u>
Facilities:				
Service areas maintenance	312,000	312,000	-	0.0%
Service areas electric	60,000	60,000	-	0.0%
Water & sewer treatment	12,000	12,000	-	0.0%
Environmental (permits, etc.)	16,000	16,000	-	0.0%
Landscaping	24,000	24,000	-	0.0%
Building maintenance	245,000	245,000	-	0.0%
Landfill	60,000	60,000	-	0.0%
Building grounds - toll	75,000	75,000	-	0.0%
Utilities	260,000	260,000	-	0.0%
	<u>1,064,000</u>	<u>1,064,000</u>	<u>-</u>	<u>0.0%</u>
Other expenses				
Training	105,000	105,000	-	0.0%
Telephone	126,000	126,000	-	0.0%
	<u>231,000</u>	<u>231,000</u>	<u>-</u>	<u>0.0%</u>
Total maintenance	<u><u>\$ 19,225,000</u></u>	<u><u>\$ 18,916,000</u></u>	<u><u>\$ 309,000</u></u>	<u><u>1.6%</u></u>

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**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Toll collection</b>				
Customer service center				
Salaries	\$ 1,016,000	\$ 1,016,000	\$ -	0.0%
FICA	78,000	78,000	-	0.0%
Workers Compensation	2,000	2,000	-	0.0%
Retirement	102,000	102,000	-	0.0%
Health insurance	198,000	198,000	-	0.0%
Janitorial, office supplies & postage	467,000	467,000	-	0.0%
Telephone	120,000	120,000	-	0.0%
Maintenance office equipment	12,000	12,000	-	0.0%
Credit card fees	2,014,000	2,014,000	-	0.0%
Contractual services	50,000	50,000	-	0.0%
	<u>4,059,000</u>	<u>4,059,000</u>	<u>-</u>	<u>0.0%</u>
Toll department				
Salaries	7,128,000	7,102,000	26,000	0.4%
FICA	545,000	543,000	2,000	0.4%
Workers Compensation	288,000	288,000	-	0.0%
Retirement	675,000	673,000	2,000	0.3%
Health insurance	1,152,000	1,152,000	-	0.0%
Utilities	210,000	210,000	-	0.0%
Uniforms	21,000	63,000	(42,000)	-66.7%
Training & meetings	12,000	12,000	-	0.0%
Janitorial, office supplies & postage	108,000	108,000	-	0.0%
Telephone	72,000	72,000	-	0.0%
Maintenance office equipment	62,000	52,000	10,000	19.2%
Motor vehicle expense	36,000	36,000	-	0.0%
Security contract	96,000	96,000	-	0.0%
TCS maintenance contract	400,000	400,000	-	0.0%
Small equipment	161,000	134,000	27,000	20.1%
	<u>10,966,000</u>	<u>10,941,000</u>	<u>25,000</u>	<u>0.2%</u>
Total toll collection	<u>\$ 15,025,000</u>	<u>\$ 15,000,000</u>	<u>\$ 25,000</u>	<u>0.2%</u>

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**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Traffic control</b>				
State police				
Salaries	\$ 2,267,000	\$ 2,328,000	\$ (61,000)	-2.6%
FICA	48,000	52,000	(4,000)	-7.7%
Workers Compensation	4,000	2,000	2,000	100.0%
Retirement	434,000	271,000	163,000	60.1%
Health insurance	310,000	316,000	(6,000)	-1.9%
Subsistence	51,000	50,000	1,000	2.0%
Yearly expenses	63,000	56,000	7,000	12.5%
Building maintenance	6,000	6,000	-	0.0%
Emergency services	6,000	6,000	-	0.0%
Utilities	24,000	24,000	-	0.0%
Training & travel	18,000	18,000	-	0.0%
Janitorial, office supplies & postage	24,000	24,000	-	0.0%
Telephone	30,000	30,000	-	0.0%
Maintenance office equipment	12,000	12,000	-	0.0%
Motor vehicle expense	280,000	280,000	-	0.0%
Machinery/equipment purchase	375,000	222,000	153,000	68.9%
	<u>3,952,000</u>	<u>3,697,000</u>	<u>255,000</u>	<u>6.9%</u>
Communications				
Salaries	477,000	477,000	-	0.0%
FICA	36,000	36,000	-	0.0%
Workers Compensation	3,000	3,000	-	0.0%
Retirement	48,000	48,000	-	0.0%
Health insurance	65,000	65,000	-	0.0%
Training	2,000	2,000	-	0.0%
Janitorial, office supplies & postage	5,000	5,000	-	0.0%
Telephone	8,000	8,000	-	0.0%
Maintenance office equipment	130,000	130,000	-	0.0%
	<u>774,000</u>	<u>774,000</u>	<u>-</u>	<u>0.0%</u>
Total traffic control	<u>\$ 4,726,000</u>	<u>\$ 4,471,000</u>	<u>\$ 255,000</u>	<u>5.4%</u>



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**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Administration</b>				
Salaries	1,613,000	1,568,000	45,000	2.9%
FICA	123,000	121,000	2,000	1.7%
Workers Compensation	4,000	4,000	-	0.0%
Retirement	161,000	157,000	4,000	2.5%
Health insurance	111,000	111,000	-	0.0%
Information technology	450,000	450,000	-	0.0%
Building maintenance	27,000	27,000	-	0.0%
Administration	106,000	106,000	-	0.0%
Advertising and promotion	61,000	61,000	-	0.0%
Association dues & subscriptions	52,000	52,000	-	0.0%
Utilities	100,000	100,000	-	0.0%
Travel & meetings	33,000	33,000	-	0.0%
Janitorial, office supplies & postage	48,000	48,000	-	0.0%
Telephone	74,000	74,000	-	0.0%
Equipment maintenance/rental	15,000	15,000	-	0.0%
Motor vehicle expense	15,000	18,000	(3,000)	-16.7%
Operations, training and safety	36,000	36,000	-	0.0%
Total administration	<u>\$ 3,029,000</u>	<u>\$ 2,981,000</u>	<u>\$ 48,000</u>	<u>1.6%</u>

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**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Tourist Information Center Operations</b>				
Salaries	\$ 795,000	\$ 795,000	\$ -	0.0%
FICA	61,000	61,000	-	0.0%
Workers Compensation	18,000	18,000	-	0.0%
Retirement	80,000	80,000	-	0.0%
Health insurance	76,000	76,000	-	0.0%
Building maintenance	165,000	165,000	-	0.0%
Advertising and promotion	6,000	6,000	-	0.0%
Utilities	109,000	109,000	-	0.0%
Uniforms	4,000	4,000	-	0.0%
Travel and meetings	4,000	4,000	-	0.0%
Office supplies & postage	32,000	32,000	-	0.0%
Telephone	24,000	24,000	-	0.0%
Maintenance office equipment	30,000	30,000	-	0.0%
Motor vehicle expense	3,000	3,000	-	0.0%
Total TIC operations	<u>1,407,000</u>	<u>1,407,000</u>	<u>-</u>	<u>0.0%</u>
<b>Non-departmental</b>				
Property and liability	876,000	876,000	-	0.0%
Auditing	54,000	54,000	-	0.0%
Trustee & investment manager	31,000	31,000	-	0.0%
Legal	300,000	300,000	-	0.0%
Engineering	2,100,000	1,989,000	111,000	5.6%
Property taxes	72,000	72,000	-	0.0%
Total non-departmental	<u>\$ 3,433,000</u>	<u>\$ 3,322,000</u>	<u>\$ 111,000</u>	<u>3.3%</u>

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**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Renewal and replacement</b>				
Facilities renovation and repair	\$ 800,000	\$ 1,100,000	\$ (300,000)	-27.3%
Safety projects - RPM's	-	-	-	0.0%
Pavement striping and markings	2,600,000	2,700,000	(100,000)	-3.7%
Sign replacement/overlays	100,000	100,000	-	0.0%
Roadway lighting	100,000	100,000	-	0.0%
Full depth repairs/undersealing	1,000,000	1,600,000	(600,000)	-37.5%
Guardrail replacement	700,000	700,000	-	0.0%
Culvert repairs/replacement	6,700,000	6,000,000	700,000	11.7%
Bridge/facility retrofit	2,200,000	2,000,000	200,000	10.0%
Bridge painting	2,000,000	1,700,000	300,000	17.6%
Bridge deck overlays	600,000	500,000	100,000	20.0%
Slope reconditioning	600,000	600,000	-	0.0%
Shot Creet	200,000	100,000	100,000	100.0%
Vehicle/equipment replacement	1,100,000	1,600,000	(500,000)	-31.3%
	<u>\$ 18,700,000</u>	<u>\$ 18,800,000</u>	<u>\$ (100,000)</u>	<u>-0.5%</u>
<b>Capital Projects</b>				
Capital - Traditional				
Paving	\$ 16,800,000	\$ 9,800,000		1-A-18
		2,000,000		2-A-18
		8,500,000		1-A-19
		4,700,000		2-A-19
		1,000,000		1-A-20
Facilities	2,400,000	6,000,000		Facilities
		2,481,000		Camp Creek
		1,500,000		Toll System
	<u>\$ 19,200,000</u>	<u>\$ 35,981,000</u>		
Capital - Major				
Bridge Deck Replacement	\$ 14,400,000	\$ 6,000,000		BDR-1-18
		5,000,000		BP-1-19
		7,900,000		BDR-**-20
Toll equipment upgrade	4,000,000			
	<u>\$ 18,400,000</u>	<u>\$ 18,900,000</u>		

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**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Non Toll Revenue including Caperton Center</b>				
Operating Revenues				
Concession revenue	\$ 2,509,000	\$ 3,268,000	\$ (759,000)	-23.2%
TIC revenue, net	342,000	469,000	(127,000)	-27.1%
Caperton Center craft	1,279,000	1,598,500	(319,500)	-20.0%
Culture Center craft	70,000	87,500	(17,500)	-20.0%
Caperton Center food	1,691,200	2,537,000	(845,800)	-33.3%
Total operating revenues	<u>5,891,200</u>	<u>7,960,000</u>	<u>(2,068,800)</u>	<u>-26.0%</u>
Operating expenses				
Shipping/freight in	5,800	5,800	-	0.0%
Advertising and promotion	245,000	245,000	-	0.0%
Association dues & subscriptions	5,000	5,000	-	0.0%
Legal & professional fees	4,000	-	4,000	0.0%
Utilities	413,000	413,000	-	0.0%
Uniforms	20,000	20,000	-	0.0%
Training	8,000	8,000	-	0.0%
Travel & meetings	12,000	12,000	-	0.0%
Office supplies & postage	269,000	335,500	(66,500)	-19.8%
Wrapping & packaging	21,500	21,500	-	0.0%
Maintenance office equipment	294,500	367,500	(73,000)	-19.9%
Credit card discounts	80,000	99,500	(19,500)	-19.6%
Contract personnel	3,000,000	3,300,000	(300,000)	-9.1%
Third party management fee	17,200	17,200	-	0.0%
Property & liability insurance	67,000	67,000	-	0.0%
Greenbrier management fee	20,000	25,000	(5,000)	-20.0%
Total operating expenses	<u>4,482,000</u>	<u>4,942,000</u>	<u>(460,000)</u>	<u>-9.3%</u>
Net operating revenue	1,409,200	3,018,000	(1,608,800)	-53.3%
Capital Projects - Non Toll	(1,726,500)			
Toll tax deduction reimbursement	<u>(55,000)</u>	<u>(55,000)</u>	<u>-</u>	<u>0.0%</u>
Net non-toll revenue	<u>\$ (372,300)</u>	<u>\$ 2,963,000</u>	<u>\$ (3,335,300)</u>	<u>-112.6%</u>

**WEST VIRGINIA PARKWAYS AUTHORITY**

**ANNUAL OPERATING BUDGET**

**Years Ending June 30, 2021 and 2020**

	<u>2021</u>	<u>2020</u>	<u>Change</u>	
<b>Arts &amp; Crafts Summary - Caperton Center and Culture Center</b>				
<b>Operating Revenues</b>				
Caperton Center craft - net sales	\$ 1,279,000	\$ 1,598,500	\$ (319,500)	-20.0%
Culture Center craft - net sales	70,000	87,500	(17,500)	-20.0%
Caperton Center food - net sales	<u>1,691,200</u>	<u>2,537,000</u>	<u>(845,800)</u>	<u>-33.3%</u>
Total operating revenues	<u>3,040,200</u>	<u>4,223,000</u>	<u>(1,182,800)</u>	<u>-28.0%</u>
<b>Operating expenses</b>				
Shipping/freight in	5,800	5,800	-	0.0%
Advertising and promotion	245,000	245,000	-	0.0%
Association dues & subscriptions	5,000	5,000	-	0.0%
Legal & professional fees	4,000	-	4,000	0.0%
Utilities	413,000	413,000	-	0.0%
Uniforms	20,000	20,000	-	0.0%
Training	8,000	8,000	-	0.0%
Travel & meetings	12,000	12,000	-	0.0%
Office supplies & postage	269,000	335,500	(66,500)	-19.8%
Wrapping & packaging	21,500	21,500	-	0.0%
Maintenance office equipment	294,500	367,500	(73,000)	-19.9%
Credit card discounts	80,000	99,500	(19,500)	-19.6%
Contract personnel	3,000,000	3,300,000	(300,000)	-9.1%
Third party management fee	17,200	17,200	-	0.0%
Property & liability insurance	67,000	67,000	-	0.0%
Greenbrier management fee	<u>20,000</u>	<u>25,000</u>	<u>(5,000)</u>	<u>-20.0%</u>
Total operating expenses	<u>4,482,000</u>	<u>4,942,000</u>	<u>(460,000)</u>	<u>-9.3%</u>
Net Arts & Crafts revenue	<u>\$ (1,441,800)</u>	<u>\$ (719,000)</u>	<u>\$ (722,800)</u>	<u>100.5%</u>
<b>Capital Projects - Non Toll</b>				
Warehouse	\$ 1,200,000			
Public bathrooms	400,000			
Retail and Gallery Remodel	91,500			
Furniture and outdoor seating	<u>35,000</u>			
	<u>\$ 1,726,500</u>			



## **WEST VIRGINIA PARKWAYS AUTHORITY**

### **AUTHORITY MEMBERS**

**THE HONORABLE JIM JUSTICE**  
Governor State of West Virginia  
Chairman

**Bray Cary**  
Senior Advisor to the Governor

**Byrd E. White, III**  
Cabinet Secretary, WV Department of Transportation

**MIKE VINCIGUERRA**  
Vice Chairman

**TOM MAINELLA**  
Secretary

**BILL SEAVER**  
**ALISHA MADDOX**  
**DOUGLAS M. EPLING**  
**WILLIAM CIPRIANI**  
**TROY N. GIATRAS**

### **WEST VIRGINIA PARKWAYS PERSONNEL**

**GREGORY C. BARR**  
General Manager

**A. DAVID ABRAMS, JR.**  
General Counsel

**MARGARET VICKERS**  
Director of Purchasing

**PARRISH FRENCH**  
Director of Finance

**D. WAYNE WEBB**  
Director of Customer Service

**TYRONE GORE**  
Director of Operations & Training

**LESLIE BALL**  
Director of Maintenance

**RON HAMILTON**  
Chief Engineer

**TAMMY COFFMAN**  
Executive Director, Tamarack

**DOUG RATCLIFF**  
Director of Toll

**ROBIN SHAMBLIN**  
Executive Assistant

**CAPT. D.A. GUNNOE**  
Officer-in-Charge of WV State Police, Troop 7

**SHERRY LILLY**  
Director of Human Resources

**DAVID H. ROLLINS**  
Treasurer



June 13, 2020

West Virginia Parkways Authority  
Post Office Box 1469  
Charleston, WV 25325

Dear Authority Members:

HNTB Corporation ("HNTB"), as the Consulting Engineers to the West Virginia Parkways Authority (the "Authority"), is pleased to submit to the Authority the attached 2020 Annual Report which includes this cover letter and the certifications made in this letter (collectively, the "Annual Report").

The Annual Report is delivered to you as required by relevant provisions of the Master Trust Indenture dated as of August 1, 2018, by and between the Authority and United Bank, as Trustee (the "Trustee") (the "Master Trust Indenture"). The Master Trust Indenture was amended and supplemented by that certain First Supplemental Trust Indenture dated as of August 1, 2018, by and among the Authority and the Trustee, (as supplemented and amended, the "Indenture"), in connection with the Authority's issuance of its \$166,370,000 Senior Lien Turnpike Toll Revenue Bonds, Series 2018 (the "Series 2018 Bonds") which are secured under the Indenture by a pledge of Net Toll Road Revenues as defined in the Indenture. Prior to issuance of the Series 2018 Bonds, the Authority in July 2018 defeased all of its prior outstanding Turnpike toll revenue bonds.

The Master Trust Indenture establishes various covenants with which the Authority must comply. One major covenant (often called the "Good Repair Covenant") requires the Authority to operate, maintain and keep the West Virginia Turnpike (the "Turnpike") and other Authority properties in good repair, all as more fully set forth in Section 503 of the Master Trust Indenture. The Good Repair Covenant and several other covenants under the Master Trust Indenture require HNTB, as the Consulting Engineers for the Authority under the Indenture, to provide the Authority with an annual report on the condition of the Turnpike and to provide certain certifications to be used by the Authority in its annual budget-making process that are to be reflected and incorporated in its Annual Budget for the upcoming Fiscal Year.

This Annual Report and the certifications set forth herein are being delivered to you to satisfy those various requirements under the Master Trust Indenture and to document the Authority's compliance with such covenants

1. **Annual Physical Examination and Inspection of the Turnpike; Annual Turnpike Condition Report; Certification of Compliance with Section 503 of the Master Trust Indenture (including the Good Repair Covenant).**

In accordance with the requirements of Section 503 of the Master Trust Indenture, HNTB certifies that it has made a physical examination and inspection of the Turnpike for Fiscal Year 2019/2020 and has submitted to the Authority this Annual Report its written annual report on the condition of the Turnpike. As required by Section 503, this Annual Report is being delivered to the Authority prior to the end of Fiscal Year 2019/2020.

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This Annual Report documents, and HNTB hereby certifies, that the Authority has complied with the Good Repair Covenant and related requirements as more fully set forth in Section 503. Specifically, and as further required by Section 503 of the Master Trust Indenture, HNTB hereby further certifies that:

- (i) the Authority in operating the Turnpike has maintained it in good repair, working order and condition,
- (ii) the Authority has complied with the covenants set forth in the Master Trust Indenture with respect to the efficient management of the Turnpike, the proper maintenance of the properties of the Turnpike, and the making of necessary repairs, renewals and replacements thereto and thereof and the necessity for capital replacements and improvements, and
- (iii) the Authority has complied with the recommendations made by HNTB with respect to each of the foregoing items, and,
- (iv) In the judgment of HNTB, the Authority has not in any way failed to perform or comply with the covenants and agreements set forth above.

**2. Certifications Under Section 508 of the Master Trust Indenture as to Operation and Maintenance Expenses, Renewal and Replacement Costs, and Renewal and Replacement Reserve Fund Requirement, for Purposes of the Authority's Annual Budget for Fiscal Year 2019/2020.**

As required by Section 508 of the Master Trust Indenture and the definitions of "Annual Budget," "Operation and Maintenance Expenses," "Renewal and Replacement Costs", and "Renewal and Replacement Reserve Fund Requirement" as set forth in Section 101 of the Master Trust Indenture, respectively, HNTB as Consulting Engineers HNTB hereby certifies that the following amounts are necessary to be included in the Annual Budget and expended in Fiscal Year 2020/2021 for the following purposes:

- (i) Operating and Maintenance Expenses: \$46,845,000;
- (ii) Renewal and Replacement Costs: \$18,700,000; and
- (iii) Renewal and Replacement Reserve Fund Requirement: \$18,700,000.

Accordingly, HNTB recommends that the Authority include these amounts in its Annual Budget for the Fiscal Year ending June 30, 2021 ("Fiscal Year 2020/2021"). The body of the Annual Report contains additional information and details concerning these recommendations.

It should be noted that some Renewal and Replacement projects begun in and budgeted for Fiscal Year 2019/2020 could not be completed before the end of that Fiscal Year, and will be completed after the end of such Fiscal Year. The funds budgeted for the Renewal and Replacement Costs for such projects will be carried over and expended to complete those projects after the end of Fiscal Year 2019/2020. HNTB certifies that such an approach is reasonable under all the circumstances and is consistent with the Authority's Good Repair Covenant and related obligations under Sections 503 and 508 of the Master Trust Indenture. Such carried-over funds and costs are not included in HNTB's recommendations and certified amounts, set forth above, for Fiscal Year 2020/2021.





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3. **Certification Under Sections 503 and 508 of the Master Trust Indenture of Amounts Necessary to Be Expended for Renewal and Replacement Reserve Fund Requirements for the Five (5) Next Fiscal Years.**

As required by Sections 503(c) and 508 of the Master Trust Indenture, HNTB hereby certifies that the amounts that are necessary to be expended for the Renewal and Replacement Reserve Fund Requirement for the Turnpike for each of the five (5) next succeeding Fiscal Years are as follows:

- (i) Fiscal Year 2020/2021: \$18,700,000;
- (ii) Fiscal Year 2021/2022: \$19,400,000;
- (iii) Fiscal Year 2022/2023: \$19,700,000;
- (iv) Fiscal Year 2023/2024: \$20,300,000; and
- (v) Fiscal Year 2024/2025: \$20,900,000.

The body of the Annual Report contains additional information and detail concerning the foregoing recommendations.

Again, it should be noted that some Renewal and Replacement projects begun in and budgeted for Fiscal Year 2019/2020 could not be completed before the end of that Fiscal Year, and will be completed after the end of such Fiscal Year. The funds budgeted for the Renewal and Replacement Costs for such projects will be carried over and expended to complete those projects after the end of Fiscal Year 2019/2020. As noted earlier, above, such carried-over funds and costs are not included in HNTB's recommendations and certified amounts, set forth above, for Fiscal Year 2019/2020.

4. **Certifications as to Insurance Under Section 515(a) of the Master Trust Indenture.**

As required by Section 515(a) of the Master Trust Indenture, the Consulting Engineers are required to provide recommendations as to self-insurance funds, Multi-risk Insurance, and Use and Occupancy Insurance. HNTB hereby certifies that its insurance recommendations to the Authority, which are more fully set forth and discussed in the body and appendices of this Annual Report, are as follows:

(i) Self-insurance funding of \$1,000,000 should continue to be maintained by the Authority and such funding should be available for the Authority's percentage of contribution for liability or other risks of losses and should be specifically designated as the Authority's percentage of contribution in the event of a disaster;

(ii) Use and Occupancy Insurance, in accordance with Section 515(a)(ii) of the Master Trust Indenture, should be maintained for Fiscal Year 2020/2021 in the amount of \$139,000,000; and

(iii) Multi-risk Insurance, in accordance with Section 515(a)(i) of the Master Trust Indenture, should be maintained for Fiscal Year 2020/2021 in the amount of \$625,061,900, as more fully explained in the Appendix to the Annual Report addressing this subject, which amount is the approximate replacement cost of the roadways, bridges, buildings, service plazas, rest areas, toll plazas, Caperton Center, and all other buildings, structures, facilities, furnishings and equipment, all as more fully explained in the Appendix on this subject that is included in the Annual Report.

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5. **Certifications as to Other Turnpike Capital Improvement Funding In Next Five Fiscal Years.**

HNTB has received and reviewed the Authority's proposed budget for its five-year capital improvement program for the Turnpike for the next five Fiscal Years, i.e., the Fiscal Years ending on June 30th of the years 2021 through 2025, inclusive. Such five-year capital program, as required by Sections 412 and 508 of the Master Trust Indenture, separately identifies for each of those 5 Fiscal Years the (A) Renewal and Replacement Costs and Renewal and Replacement Reserve Fund Requirements, which are in the respective amounts recommended and certified by HNTB in this Annual Report, and (B) other Capital Costs that are not Renewal and Replacement Costs. As required by Section 508 of the Master Trust Indenture, the Authority is required to include its five-year capital improvement program cost estimates (separated into these two categories) as part of its Annual Budget.

HNTB hereby certifies that such five-year capital improvement program for the Turnpike for the next five Fiscal Years, as more fully discussed and analyzed in the body of this Annual Report, is reasonable and sufficient to assure that the Authority, in each of such five Fiscal Years, will satisfy the Good Repair Covenant and its related obligations under the Master Trust Indenture in each of the five ensuing Fiscal Years

6. **Conclusion and Final Certification for this Annual Report.**

HNTB has monitored and continually reviews the Authority's collection of Turnpike toll revenues and expenditures to ensure that adequate funds are available in the amounts needed to address the Authority's various requirements under the Master Trust Indenture including but not limited to its obligations to fund and pay Debt Service and to fund, at required levels, all required Reserves that must be funded. The revenue projections have been reduced from \$156M to \$139M based upon our review of the current revenues. The new projected revenues reflect known impacts to revenue currently being received. HNTB certifies that the Authority has been, and will continue to be able to satisfy, the Good Repair Covenants and its related obligations under the Master Trust Indenture in each of the five ensuing Fiscal Years ending on June 30th of 2021 through 2025.

Respectfully submitted,

Randolph T. Epperly, Jr., P.E.,  
HNTB CORPORATION  
Vice President

cc: United Bank, Trustee (Attention: Thomas Provenzano)



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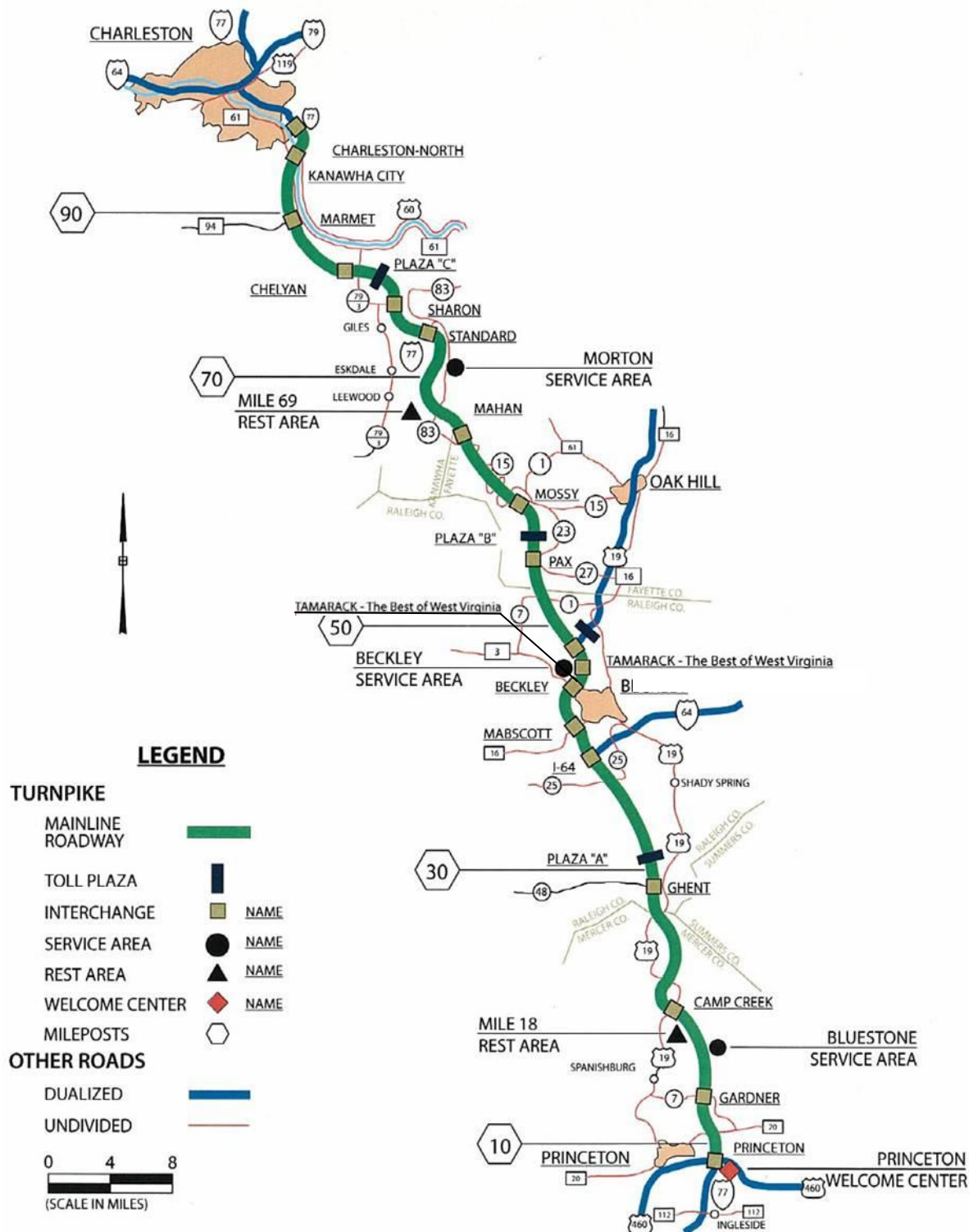


**Yeager Bridges at Milepost 94.5**

### APPENDIX

#### 2020 BRIDGE REPLACEMENT COSTS

## SITE MAP







## 5-YEAR PROGRAM NEEDS

### OPERATION AND MAINTENANCE EXPENSES

HNTB recommends the following for Operation and Maintenance Expenses:

- A. Maintenance
- B. Toll/Accounting/Customer Service
- C. Traffic Control (State Police)
- D. Administration
- E. Tourist Information Centers
- F. Non-Departmental

### RENEWAL AND REPLACEMENT

HNTB recommends the following for Renewal and Replacement:

- A. Bridge Painting-The estimated cost for bridge painting is \$10.803 million over the next 5 years.
  - B. Bridge Deck Sealing and Overlays-Certain existing bridge decks are exhibiting an increasing number of spalls and reduced skid resistance. These will need to be sealed and overlaid. The bridge deck sealing and overlay costs are estimated at \$2.988 million over the next 5 years.
  - C. Bridge and Facilities Retrofit-The estimated cost for bridge repairs, median barrier wall repairs and miscellaneous structural repairs is at \$11.138 million over the next 5 years.
  - D. Guardrail Replacement-The estimated cost for guardrail replacement and repair is \$3.579 million over the next 5 years.
  - E. Shotcrete Repairs-The estimated cost for shotcrete repairs is \$1.213 million over the next 5 years.
  - F. Slope Reconditioning-Based on past history of slide repairs and rock fall cleanup, the estimated cost is \$3.38 million over the next 5 years.
  - G. Culverts-Culverts are rated on a condition rating system of 1 thru 3. Culverts rated 1 need to be replaced or repaired within the next 5 years. The current assessment procedures utilized visual inspection and video camera inspection. The 5 year funding needs identified 286 inlets or culverts needing repairs. The estimated cost for these repairs is \$35.895 million over the next 5 years.
  - H. Vehicle/Equipment Replacement-The estimated cost for equipment is \$8.300 million over the next 5 years.
  - I. Sign Replacements/Overlays-Signing meets current standards. The estimated cost for signing/footer repairs is \$0.699 million over the next 5 years.
  - J. Roadway Lighting-All lighting meets current standards. The estimated cost for lighting is \$0.58 million over the next 5 years.
  - K. Facilities Raised Pavement Markers/Safety Projects-The estimated cost for replacing raised pavement markers and safety projects is \$4.378 million over the next 5 years.
  - L. Roadway Painting and Markings-The estimated cost for pavement striping and markings is \$13.718 million over the next 5 years.
  - M. Full Depth Pavement Repairs/Undersealing-The estimated cost for full depth concrete repairs and undersealing is \$2.273 million over the next 5 years.
-



## CAPITAL REPLACEMENTS AND IMPROVEMENTS

HNTB recommends the following for Capital Replacements and Improvements:

- A. Pavement-Pavement costs are based on current needs as determined by recent review of WV Turnpike pavements. The estimated cost for pavement rehabilitation, reconstruction and overlays is \$77.5 million over the next 5 years.
- B. Facilities Capital Improvements-The estimated cost for facilities capital needs is \$8.1 million over the next 5 years.
- C. Yeager Bridges Painting-Yeager Bridges are due for full steel superstructure painting. The estimated cost for this painting is \$32 million over the next 5 years.
- D. Bridge Deck Replacement-WVPA has established a yearly plan for bridge deck replacement based on current condition of the decks. Many of these decks are 30 years old and have not had any structural overlay repairs. The estimated cost for bridge deck replacements is \$78.1 million over the next 5 years.
- E. Toll System Upgrades-The estimated cost for upgrading the toll system is \$12 million over the next three years.

## 5-YEAR PROGRAM RECOMMENDATIONS

### OPERATION AND MAINTENANCE EXPENSES

Operating Expenses include all of the Authority's expenses in operating, maintaining and servicing the Turnpike system and otherwise carrying out and administering its related programs. Operating expenses include, for example, salaries, supplies, utilities, ordinary maintenance and repairs, insurance premiums, legal, accounting, management, traffic engineers and consulting engineers. The operating and maintenance expenses are detailed in the following table.

OPERATION AND MAINTENANCE EXPENSES - \$ THOUSANDS					
	2021	2022	2023	2024	2025
Maintenance	\$19,225	\$20,584	\$20,996	\$21,416	\$21,844
Toll/Accounting/Customer Service	\$15,025	\$15,606	\$15,918	\$16,236	\$16,561
Traffic Control (State Police)	\$4,726	\$4,652	\$4,745	\$4,840	\$4,936
Administration	\$3,029	\$2,197	\$2,241	\$2,286	\$2,332
Tourist Information Centers	\$1,407	\$1,464	\$1,493	\$1,523	\$1,553
Non-Departmental	\$3,433	\$3,456	\$3,525	\$3,596	\$3,668
<b>Total Operating Costs</b>	<b>\$46,845</b>	<b>\$47,959</b>	<b>\$48,919</b>	<b>\$49,897</b>	<b>\$50,895</b>



## RENEWAL AND REPLACEMENT

Under the Indenture, annual Renewal and Replacement requirements must be determined and certified by the Consulting Engineers. Under the Indenture, Renewal and Replacement requirements exclude annual Operating Expenses and include those expenditures required in the year for keeping the Turnpike open to public travel and use. Renewal and Replacement requirements constitute the most essential capital outlays for a given fiscal year. The five-year program for Renewal and Replacement projects are detailed in the following table. The itemized budget amounts are listed for 2021 through 2025.

FIVE-YEAR PROGRAM FOR R&R - \$ THOUSANDS					
	2021	2022	2023	2024	2025
Bridge Painting	\$2,000	\$2,100	\$2,200	\$2,300	\$2,300
Bridge Deck Sealing and Overlays	\$600	\$600	\$600	\$600	\$600
Bridge/Facilities Retrofit	\$2,200	\$2,100	\$2,200	\$2,300	\$2,400
Guardrail Replacement	\$700	\$700	\$700	\$700	\$800
Shotcrete Repairs	\$200	\$200	\$200	\$300	\$300
Slope Reconditioning	\$600	\$700	\$700	\$700	\$700
Culvert Repair/Replacement	\$6,700	\$7,000	\$7,200	\$7,400	\$7,600
Vehicle/Equipment Replacement	\$1,100	\$1,700	\$1,800	\$1,800	\$1,900
Sign Replacement/Overlays	\$100	\$100	\$100	\$100	\$200
Roadway Lighting	\$100	\$100	\$100	\$100	\$100
Pavement Striping and Markings	\$2,600	\$2,700	\$2,800	\$2,800	\$2,800
Full Depth Repairs/Undersealing	\$1,000	\$600	\$200	\$300	\$300
Facilities/Safety	\$800	\$800	\$900	\$900	\$900
<b>Subtotals R&amp;R</b>	<b>\$18,700</b>	<b>\$19,400</b>	<b>\$19,700</b>	<b>\$20,300</b>	<b>\$20,900</b>

## CAPITAL REPLACEMENTS AND IMPROVEMENTS

The capital improvement projects are the WVPA projects scheduled and budgeted in the five-year work program to allow the Turnpike to be operated and maintained in a sound and economical manner consistent with sound management practices and principles and that it is being kept in good repair, working order and condition. The five-year program for facilities capital projects and highway and bridge capital projects are detailed in the following table. The itemized budget amounts are listed for 2021 through 2025.

FIVE-YEAR PROGRAM FOR CAPITAL - \$ THOUSANDS					
	2021	2022	2023	2024	2025
Paving	\$16,800	\$10,600	\$26,900	\$11,600	\$11,600
Facilities	\$2,400	\$1,000	\$2,600	\$1,000	\$1,100
Toll Equipment Upgrade	\$4,000	\$4,000	\$4,000	\$0	\$0
Bridge Deck Replacement	\$14,400	\$15,000	\$15,600	\$16,200	\$16,900
Yeager Bridge Painting	\$0	\$15,000	\$0	\$17,000	\$0
<b>Subtotals Capital</b>	<b>\$37,600</b>	<b>\$45,600</b>	<b>\$49,100</b>	<b>\$45,800</b>	<b>\$29,600</b>

Capital Costs do not include any travel plaza replacements. Assumption is that their replacements will be privatized.



## BUDGET FISCAL YEAR 2021

HNTB recommends the following:

BUDGET RECOMMENDATIONS FY 2021 - \$ THOUSANDS	
Operation and Maintenance	\$46,845
Renewal and Replacement	\$18,700
Capital Replacements and Improvements	\$37,600
<b>Grand Total Budget</b>	<b>\$103,145</b>





## INSURANCE

Section 515, Subsection (a) of the Master Trust Indenture dated as of August 1, 2018 as supplemented for the West Virginia Parkways Authority states:

(a) The Authority shall at all times cause to be maintained, to the extent reasonably obtainable, the following kinds of insurance with responsible insurance and/or reinsurance companies authorized and qualified to do business in (or with companies duly authorized and qualified to do business with companies that are authorized and qualified to do business in) the State, in such amounts as recommended by the Consulting Engineers as provided below or as determined by the Authority:

(i) multi-risk insurance on the facilities of the Turnpike which are of an insurable nature and of the character usually insured by those operating similar facilities, covering direct physical loss or damage thereto from causes customarily insured against, in such amounts recommended by the Consulting Engineers to provide against such loss or damage and to protect the interest of the Authority;

(ii) use and occupancy insurance covering loss of Toll Road Revenues by reason of necessary interruption, total or partial, in the use of the facilities of the Turnpike, due to loss or damage to any such facility on which multi-risk insurance is maintained as provided in this Section, in such amount as recommended by the Consulting Engineers to provide income during the period of interruption, but in no event less than 12 months, in the event of the occurrence of any such loss or damage, equal to the amount of the loss of Toll Road Revenues, computed on the basis of Toll Road Revenues for the corresponding period during the proceeding calendar year, or if such facility was not in operation during the preceding calendar year, then computed on the basis of the Consulting Engineers' estimate, attributable to such loss or damage;

PER HUNDRED MILLION MILES TRAVELED		
YEAR	ANNUAL FATALITIES	FATALITY RATE
2000	12	1.3
2001	6	0.7
2002	9	1.0
2003	4	0.4
2004	15	1.6
2005	5	0.5
2006	6	0.6
2007	8	0.8
2008	7	0.8
2009	8	0.9
2010	4	0.4
2011	8	0.8
2012	8	0.8
2013	5	0.5
2014	3	0.3
2015	4	0.4
2016	7	0.8
2017	8	0.8
2018	9	0.9
2019	14	1.5
2020	0	0.0

(iii) public liability insurance covering injuries to persons or property, in such amount as recommended by the Consulting Engineers;

(iv) war risk insurance, if obtainable from the United States Government or any agency thereof, covering direct physical loss or damage, and loss of Toll Road Revenues attributable thereto, on the facilities of the Turnpike which are insurable thereunder;

(v) during the period of construction or reconstruction of any material portion of the facilities of the Turnpike, such insurance as is customarily carried by others with respect to similar structures used for similar purposes, provided, however, that the Authority shall not be required to maintain any such insurance to the extent that such insurance is carried for the benefit of the Authority by contractors, and provided, further, that the Authority shall require contractors constructing any such portion of the facilities of the System to file bonds or undertakings for the full performance of such



contracts, and under which all risks from any cause whatsoever, without any exceptions, during the period of such construction, shall be assumed by such contractors; and

(vi) any additional or other insurance as the Authority in its discretion may determine;

provided, however, that the Authority may self-insure, in whole or in part, with the approval of the Consulting Engineers, against public liability for bodily injury and property damage, loss of Toll Revenues normally covered by use and occupancy insurance and other risks not enumerated above to the extent permitted by law and up to the levels recommended by the Consulting Engineers or a recognized, independent insurance consultant. The adequacy of any self-insurance reserve, or other insurance reserve, established by the Authority shall be evaluated annually by the Authority in consultation with the Consulting Engineers (or a recognized, independent insurance consultant). Deficiencies, if any, in any such self-insurance reserve, or other insurance reserve, shall be made up in accordance with the recommendations of the Consulting Engineers. Except to the extent such coverage is provided by the Authority, such policies shall be taken in the names of the Authority and the Trustee for the benefit of the Holders.

The Authority obtains insurance coverage for general liability, property damage, business interruption, errors and omissions and natural disasters through the West Virginia Board of Risk and Insurance Management. This board provides insurance for the State of West Virginia, local government entities and eligible non-profit organizations. Liability coverage provided to all these insured entities is limited to \$1,000,000 per occurrence with an annual aggregate coverage limit of \$22,000,000.

The Authority established a \$5 million self-insurance fund after losing the excess liability coverage from a private insurance company during 1986. In September 1992, the Authority obtained \$10 million excess liability coverage from a private insurance company. In view of this, the Authority's insurance consultant recommended that the self-insurance fund be reduced to \$1 million and be changed from liability exclusively to include other risk of loss such as pollution first party clean-up, pollution third party liability, condemnation, earthquake, earth shift, flood, etc., and be specifically designated as the Authority's percentage of contribution in the event of a disaster.

The Appendix contains copies of the consulting engineer's letter regarding recommendations for Multi-risk Insurance, in accordance with subparagraph (i) above, listing current replacement cost for bridges, and the consulting engineer's letter with recommendations for Use and Occupancy Insurance, in accordance with subparagraph (ii) above, in the amount of \$139 million to remain in line with current toll revenues. All other insurance needs are determined by the Authority.



June 13, 2020

Mr. Gregory C. Barr, General Manager  
West Virginia Parkways Authority  
P.O. Box 1469  
Charleston, WV 25325

RE: Use and Occupancy Insurance

Dear Mr. Barr:

Section 515, Subsection (a) of the Master Trust Indenture dated as of August 1, 2018 state that Use and Occupancy Insurance shall be in such amounts as the Consulting Engineer shall certify will provide income during a period of interruption of up to 12 months for loss of system revenues due to damage to the system resulting in partial or total loss of revenues. This amount shall not be less than toll road revenues during the corresponding period for the preceding year.

It is recommended that the Authority obtain Use and Occupancy Insurance coverage in the amount of \$139,000,000 for the 2020-2021 fiscal year. This amount of Use and Occupancy Insurance coverage will satisfy Section 515, Subsection (a) of the Master Trust Indenture dated as of August 1, 2018.

Very truly yours,

A handwritten signature in blue ink, appearing to read "RTE", followed by a stylized flourish.

Randolph T. Epperly, Jr., P.E.  
HNTB Corporation  
Vice President

RTE/cak

cc:     -     United Bank, Trustee (Attention: Thomas Provenzano)  
          -     West Virginia State Board of Risk & Insurance Management  
                  (Attention: Dave Mason)  
          -     Margaret Vickers, WVPA



June 13, 2020

Mr. Gregory C. Barr  
General Manager  
West Virginia Parkways Authority  
P.O. Box 1469  
Charleston, WV 25325

RE: Multi-Risk Insurance

Dear Mr. Barr:

Section 515, Subsection (a) of the Master Trust Indenture dated as of August 1, 2018 state that the Authority shall maintain Multi-Risk Insurance on the system facilities which are of an insurable nature and of the character usually insured by those operating similar facilities in such amounts as the Consulting Engineers shall certify to be necessary or advisable to provide against such loss or damage and to protect the interest of the Authority and the Bondholders.

It is recommended that Multi-Risk Insurance be carried on all bridges, equipment, vehicles and facilities at the Administration Building, Maintenance Areas, Rest Areas, Service Areas, Toll Plazas, Caperton Center, Welcome Center, and all other facilities owned and operated by the Authority, including all structures, furnishings and equipment totaling \$625,061,900 with an annual premium of \$663,360. Such annual premium is included in the Operation and Maintenance expenses recommended by HNTB Corporation as consulting engineers for FY 2020-2021.

The Authority engaged an insurance consultant in 1993 to review insurance coverage. The list of Authority buildings, structures and contents of buildings and structures has been revised and updated annually in accordance with the advice of the Authority's insurance consultant and our previous recommendations. It is recommended that this list be revised and updated to include all additions, deletions and current values.

The insurance consultant recommended that the bridges be insured for replacement costs. Attached is a list of those current costs that were calculated using "Engineering News Record" construction indices. The estimated 2020 replacement costs were determined by multiplying the bid price by the ratio of the construction cost index of 11496.31 to the cost index for the year that each bridge was bid.

Very truly yours,

Randolph T. Epperly, Jr., P.E.  
HNTB Corporation  
Vice President

RTE/cak

Attachments

cc:     -     United Bank, Trustee w/att.  
              (Attention: Thomas Provenzano)  
              -     West Virginia State Board of Risk & Insurance Management  
                    w/att. (Attention: Dave Mason)  
              -     Margaret Vickers, WVPA



## MAINTENANCE & SAFETY HIGHLIGHTS

### Key activities of the WVPA's Maintenance

#### Division include:

- Road and bridge safety improvement
- Resource deployment for continuing pothole repairs
- Continued implementation of the Maintenance Management System (modern management approach to improve efficiency and to reduce overall asset life cycle costs)
- Snow Removal and Ice Control (SRIC) operational improvements

MAINTENANCE PERFORMANCE SCORECARD			
		TARGET	ACTUAL
<b>ROADWAY</b>			
Asphalt Pavements		A	B+
Signs		A	A-
Other Traffic Control		A	B
Drainage Structures		A	B+
Bridges		A	B+
Vegetation Control		B	B
Litter		B	B-

### Recent equipment purchases include:

- Wood Chipper for Tractor
- Graco Paint Sprayer
- Auger Drive Unit with Bits for Mini Excavator
- 12 CU/FT Portable Concrete Mixers (4 each)

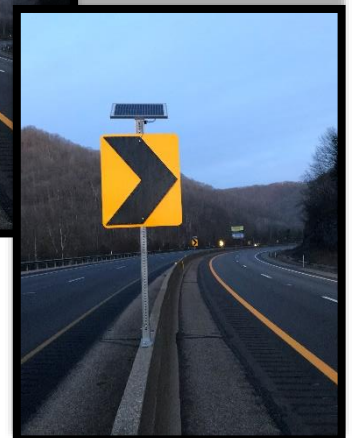
### Highlights from Fiscal Year 2020 are listed below:

- Joint & Crack Sealing – 993,682 Linear Feet
- Patching – 4,219 Tons
- Shoulder Stabilization – 110,231 Linear Feet
- Deck Patching – 1,335 Square Feet
- Bridge Expansion Joints – 12.5 Bridge Lanes
- Bridge Deck Sealing – 67.5 Bridge Lanes
- Bridge Parapet Wall Coating – 13,724 Linear Feet
- Bridge Inspection/Support – 858.5 Man-hours
- Abutment/Pier Patching – 46 Square Feet
- Abutment/Pier Coating – 23.5 Each
- Ditch & Channel – 11,645 Linear Feet
- Ditch Debris & Brush Removal – 1,740 Linear Feet
- Drop Inlet Cleaning & Grate Replacement – 1,052 Each
- Camera Culverts – 8,644 Linear Feet
- Annual Drain Inspection – 19 Each
- Bench & Slope – 8,210 Linear Feet
- Sweeping – 181 Miles
- Fence Repair – 1,281 Linear Feet
- Litter Pickup & Disposal – 1,018 Bags
- Brush Cutting – 143 Acres
- Mowing – 1,343 Acres
- Herbicide Spraying – 244 Acres
- Roadside Delineators Installed – 1,827 Each
- Salt Used – 3,469 Tons
- Courtesy Patrol/Daywatch – 15,009 Man-hours
- Emergency Response – 1,335 Man-hours
- Line Striping – 53,197 Linear Feet





Safety enhancements included placement of lighted chevron signs in curves at Mileposts 22, 74, 78 and 83. See photos from Mile 74 below showing lighted sequencing:

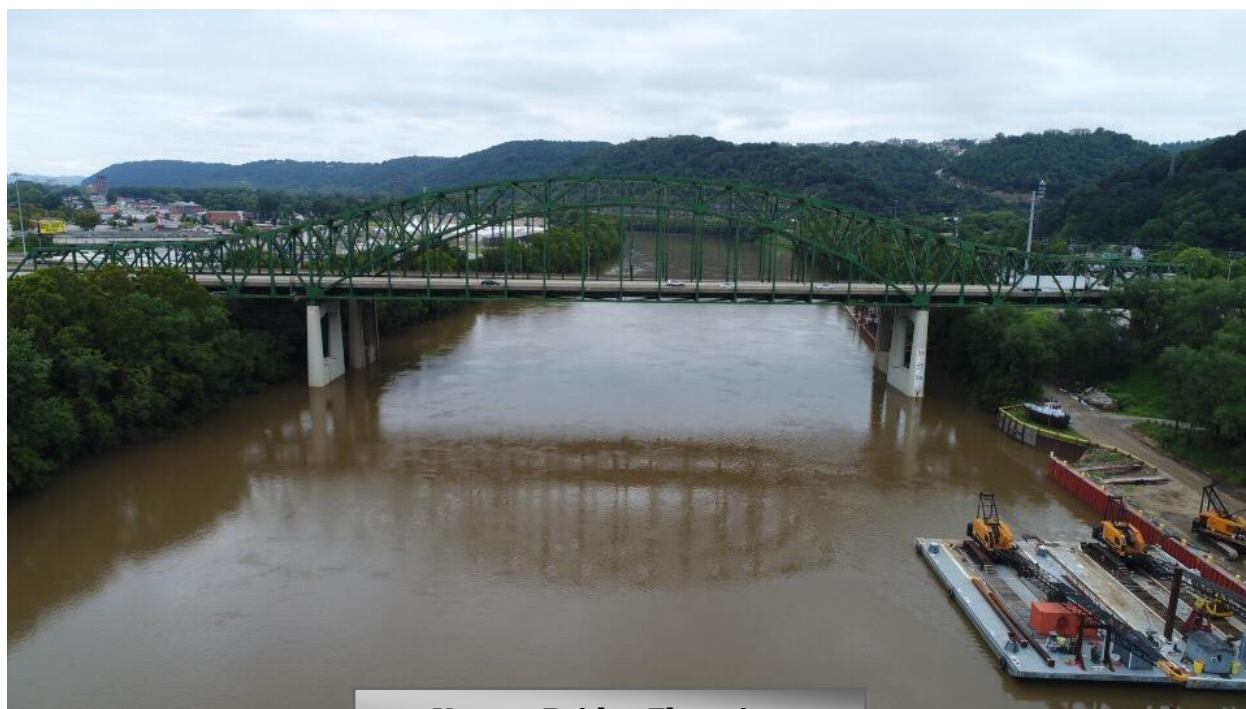




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## **FISCAL YEAR 2020 ACCOMPLISHMENTS**

The WVPA continues accomplish road and bridge rehabilitation projects on the West Virginia Turnpike such as full depth concrete repairs, asphalt pavement overlays, bridge deck overlays, bridge deck replacements, bridge and facilities retrofit work and repairs and rehab to median barriers, retaining walls, buildings, toll plazas, culverts, guardrail and pavement markings. These are much needed pavement, concrete and bridge rehabilitation projects for Kanawha, Fayette, Raleigh, and Mercer Counties. Most of the construction work for Fiscal Year 2020 was performed in the Chelyan/Marmet Standard and Ghent areas (\$27.5 million in contracts were awarded this year as well as completing punch-list items from last year's contracts). Following Memorial Day, the majority of all work was performed at night, Monday through Thursday from 7:00 p.m. to 7:00 a.m., in order to keep traffic delays at a minimum. Toll revenues are being used to fund capital highway and bridge projects. These projects are primarily those that began construction during the Fiscal Year 2020, representing only the obligations for Fiscal Year 2020.



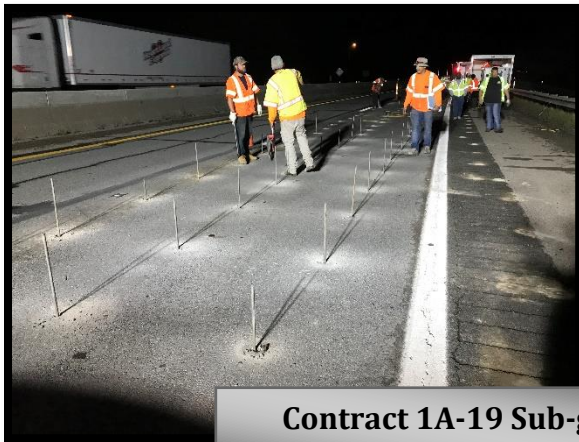
**Yeager Bridge Elevation**



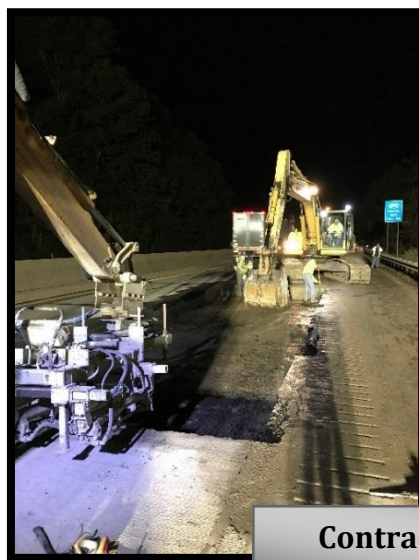
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## **Pavement Rehabilitation Contracts 1A-19 & 2A-19**

Contract 1A-19 is a pavement rehabilitation project in Kanawha County on the West Virginia Turnpike. It consists of an asphalt pavement removal, guardrail installation, concrete pavement repair, concrete median barrier repair, modified concrete barrier repair, hot-laid bituminous concrete overlay, seeding, mulching and pavement markings in the northbound direction (Milepost 89.4 to 95.5). Contract 2A-19 is a pavement milling, hot mix asphalt inlay, rumble strips and other associated incidentals at various locations in Raleigh, Fayette, Mercer and Kanawha Counties. West Virginia Paving performing the work for Contracts 1A-19 and 2A-19. The approximate construction costs are \$17,781,139.26 and \$8,217,601.82 respectively.



**Contract 1A-19 Sub-grade  
Stabilization**



**Contract 2A-19 Full Depth  
Concrete Repair**







## Culvert Cleaning & Retrofit Contract 1C-19

This culvert repair project is in Mercer, Raleigh, Fayette and Kanawha Counties on the West Virginia Turnpike. It is primarily composed of culvert retrofits by dewatering, lining, paving inverts, miscellaneous repairs to end treatments and maintenance of traffic. Teays River Construction Company performed the work. The approximate construction cost is \$5,118,254.32.



**Grouted Dump Rock Gutter**





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## **Tree and Brush Removal Contract TC-1-20**

This project consists of cutting trees and brush in various location within the WVPA's right-of-way. The general work area from milepost 85.4 to 86.0 southbound was approximately 6.70 acres. Astech Corporation performed the work at a cost of \$647,575.



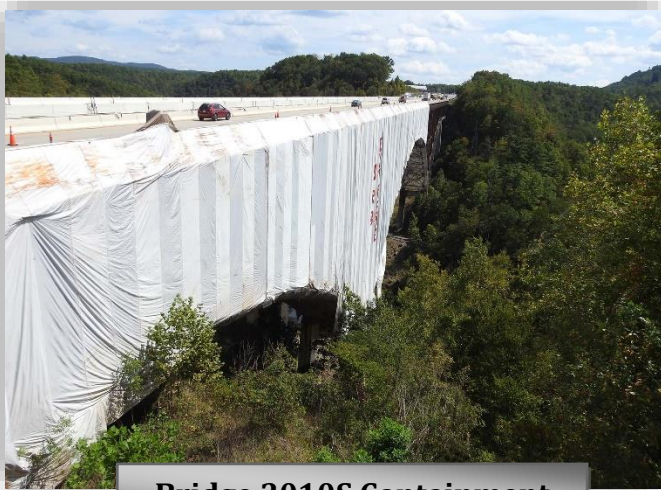
**Tree Removal in  
Progress**



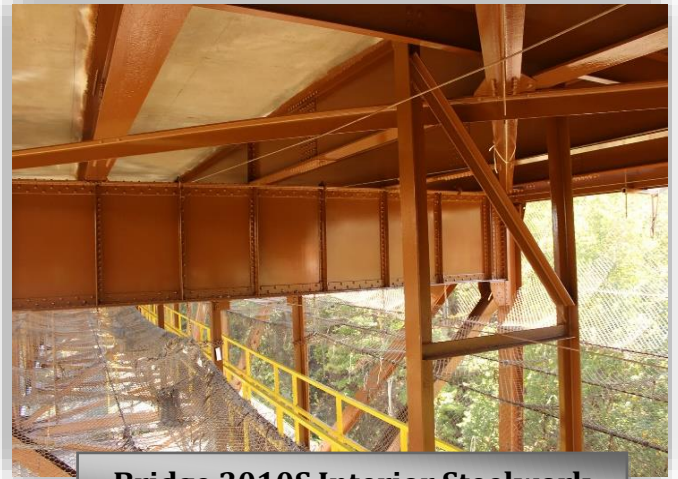


## Bridge Painting Contract BP-1-19

This project consists of full painting Bridge 3010S (Southbound Bluestone Bridge). The work included 270,000 square feet of steelwork coating at a cost of \$4,584,350. Southern Road & Bridge performed the work.



**Bridge 3010S Containment**



**Bridge 3010S Interior Steelwork**



**Bridge 3010S Elevation After Painting Completed**



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## **Bridge Painting Contract BP-2-19**

This project consists of blasting and spot painting various members on Bridges 3057 and 3065. The work included 40,900 square feet of steelwork coating and 12,400 square feet of concrete protective coating at a cost of \$620,887. K.V.K Contracting performed the work.



**Bridge 3057 and 3065 Spot Painting**

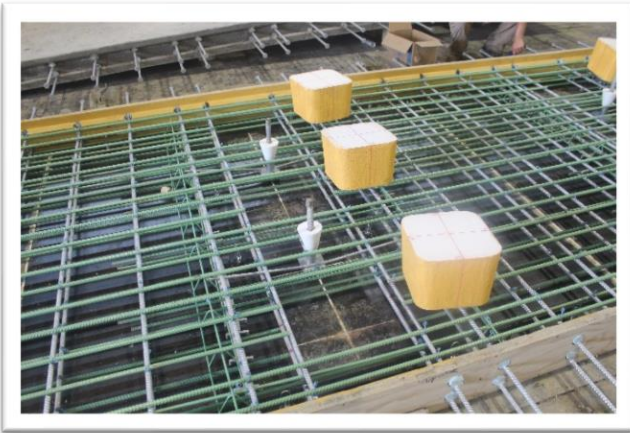






## Bridges 3076N Deck Replacement Contracts BDR-1-18

This contract utilized a method referred to Accelerated Bridge Construction (ABC). Accelerated Bridge Construction is a method in which the decks are brought in as pre-cast units to provide better quality control as the units are fabricated in a casting plant. Once the pre-cast units are brought in, the old deck is discretized and removed while the new deck is strategically placed with a crane and locked in place utilizing rapid set concrete. This project fully replaced the deck on Bridge 3076N, which is a 493-foot, two lane bridge deck on northbound, I-77 over WV Route 94 and Lens Creek. The bridge is located near Marmet, WV. The project began on Sunday evening September 15<sup>th</sup>, 2019 and was completed on September 27, 2019. The project faced many challenges due to its length, height, curvature and minimal location for staging equipment. Also, a temporary median crossover was utilized during construction and this was the first time this TTC setup has been permitted since the widening of the TPK. However, all challenges were handled appropriately by HNTB and the Contractor to ensure the schedule was met as well as the budget. Brayman Construction Corporation was awarded this project and the approximate total cost was \$5,736,254.



**Pre-Cast Deck Panel Staging**



**Off-Site Staging of the Pre-Cast Deck Panels**



**Demolition of the Existing Bridge**



**Slip Forming Median Wall**



**Pre-Cast Deck Panels in Place**





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## **Bridge/Facility Retrofit**

### **Contract BFR-1-20**

Contract BFR-1-20 is a 3-year contract with 2 one-year renewals. For fiscal year 2020, the contract amount was approximately \$1,800,000. A major portion of this contract's work is to replace defective expansion joints/seals, retrofit structural steel members with section loss, repair damaged barrier walls, patch bridge decks and rehab toll plaza lanes.



**Bridge 3038N Bearing Retrofit**



**Yeager Bridge Retrofit**



**Bridge 3065S Deck Joint Replacement**



**3076N S, Abutment Counterfort Retrofit**



## Bridge Shotcrete Repair Contract BSR-1-20 REBID

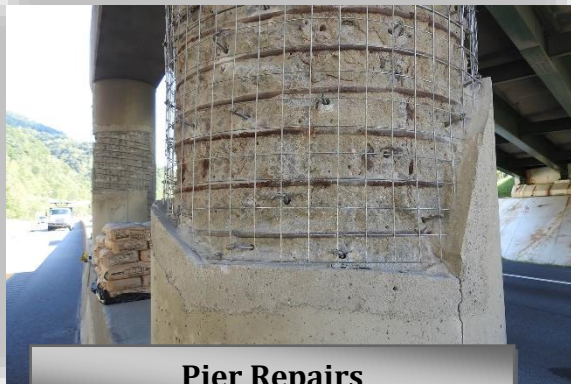
This project consists of repairs to selected structures by pneumatically applied mortar (shotcrete). The work included approximately 151 square feet of repairs to Bridge 3061. Air Placement Cement Company performed the work for a total cost of \$90,117.



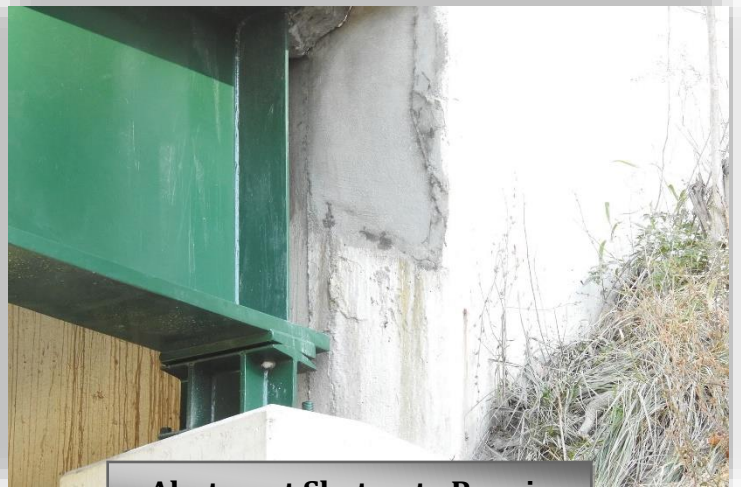
**Pier Repairs**



**Abutment Shotcrete Repairs**



**Pier Repairs**



**Abutment Shotcrete Repair**





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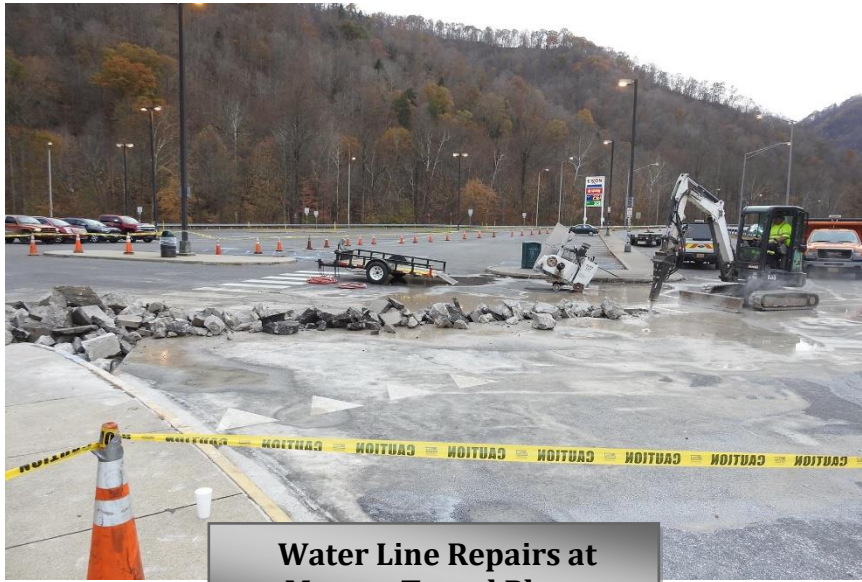
## Median Guardrail Project Contract MGR-1-19

This project consists of replacing the median guardrail in Raleigh and Mercer counties (Milepost 20.0 to 28.0). Green Acres Contracting Company preformed the work at an approximate construction cost of \$3,612,591.



**Median Guardrail Replacement**





**Water Line Repairs at  
Morton Travel Plaza**

## **APPENDIX**



**Bridge Deck Repairs**





WEST VIRGINIA PARKWAYS AUTHORITY

2020 BRIDGE REPLACEMENT COST

STRUCTURE NUMBER	YEAR BID	ENR INDEX	BID PRICE	REPLACEMENT COSTS (ROUNDED)
2144N	1980	3237	\$ 15,235,011	\$ 54,108,000
2144S	1952	569	\$ 2,419,297	\$ 48,881,000
3001N	1976	2401	\$ 311,298	\$ 1,491,000
3001S	1976	2401	\$ 316,803	\$ 1,517,000
3003N	1976	2401	\$ 287,596	\$ 1,380,000
3004S	1976	2401	\$ 306,888	\$ 1,470,000
3005N	1976	2401	\$ 649,641	\$ 3,111,000
3005S	1976	2401	\$ 565,379	\$ 2,708,000
3006	1976	2401	\$ 375,435	\$ 1,798,000
3007	1976	2401	\$ 372,640	\$ 1,785,000
3008N	1976	2401	\$ 256,237	\$ 1,230,000
3008S	1976	2401	\$ 268,094	\$ 1,290,000
3010N	1976	2401	\$ 7,966,577	\$ 38,146,000
3010S	1952	569	\$ 1,546,394	\$ 31,244,000
3012N	1976	2401	\$ 744,234	\$ 3,564,000
3012S	1976	2401	\$ 560,547	\$ 2,684,000
3017N	1976	2401	\$ 335,144	\$ 1,605,000
3018S	1976	2401	\$ 334,367	\$ 1,601,000
3019N	1976	2401	\$ 308,425	\$ 1,477,000
3019S	1976	2401	\$ 178,300	\$ 854,000
3020N	1976	2401	\$ 195,939	\$ 939,000
3020S	1976	2401	\$ 291,219	\$ 1,400,000
3021N	1976	2401	\$ 211,463	\$ 1,020,000
3021S	1976	2401	\$ 344,491	\$ 1,650,000
3022N	1976	2401	\$ 257,358	\$ 1,240,000
3022S	1976	2401	\$ 243,665	\$ 1,170,000
3026N	1983	4066	\$ 1,261,802	\$ 3,568,000
3026S	1983	4066	\$ 1,010,343	\$ 2,857,000
3029N	1983	4066	\$ 625,654	\$ 1,769,000
3029S	1983	4066	\$ 354,725	\$ 1,010,000



WEST VIRGINIA PARKWAYS AUTHORITY

2020 BRIDGE REPLACEMENT COST

STRUCTURE NUMBER	YEAR BID	ENR INDEX	BID PRICE	REPLACEMENT COSTS (ROUNDED)
3030N	1983	4066	\$ 822,446	\$ 2,326,000
3030S	1983	4066	\$ 1,566,506	\$ 4,430,000
3034N	1983	4066	\$ 1,008,408	\$ 2,852,000
3034S	1983	4066	\$ 1,038,557	\$ 2,937,000
3038N	1978	2776	\$ 349,604	\$ 1,448,000
3038S	1978	2776	\$ 565,705	\$ 2,343,000
3039E	1978	2776	\$ 354,302	\$ 1,468,000
3039W	1978	2776	\$ 354,302	\$ 1,468,000
3041N	1982	3825	\$ 505,662	\$ 1,520,000
3041S	1982	3825	\$ 495,378	\$ 1,489,000
3042	1982	3826	\$ 384,616	\$ 1,160,000
3043N	1982	3825	\$ 444,803	\$ 1,340,000
3043S	1982	3825	\$ 840,560	\$ 2,527,000
3044N	1982	3825	\$ 1,171,994	\$ 3,523,000
3044S	1982	3825	\$ 1,047,519	\$ 3,149,000
3045N	1982	3825	\$ 596,023	\$ 1,792,000
3045S	1982	3825	\$ 883,965	\$ 2,657,000
3046N	1981	3533	\$ 573,556	\$ 1,867,000
3046S	1981	3533	\$ 707,668	\$ 2,303,000
3048N	1981	3533	\$ 441,062	\$ 1,436,000
3048S	1981	3533	\$ 430,038	\$ 1,400,000
3050N	1981	3533	\$ 482,166	\$ 1,569,000
3050S	1981	3533	\$ 491,056	\$ 1,598,000
3051N	1982	3825	\$ 410,565	\$ 1,240,000
3051S	1982	3825	\$ 410,565	\$ 1,240,000
3053N	1982	3825	\$ 747,909	\$ 2,248,000
3053S	1982	3825	\$ 747,909	\$ 2,248,000
3055N	1979	3003	\$ 1,266,273	\$ 4,848,000
3055S	1979	3003	\$ 1,264,663	\$ 4,842,000
3056N	1979	3003	\$ 1,456,339	\$ 5,576,000
3056S	1979	3003	\$ 1,467,482	\$ 5,618,000
3057N	1979	3003	\$ 1,669,909	\$ 6,393,000



WEST VIRGINIA PARKWAYS AUTHORITY

2020 BRIDGE REPLACEMENT COST

STRUCTURE NUMBER	YEAR BID	ENR INDEX	BID PRICE	REPLACEMENT COSTS (ROUNDED)
3057S	1979	3003	\$ 1,467,837	\$ 5,620,000
3058N	1979	3003	\$ 2,590,444	\$ 9,917,000
3058S	1979	3003	\$ 2,539,317	\$ 9,722,000
3059N	1979	3003	\$ 1,310,193	\$ 5,016,000
3059S	1979	3003	\$ 954,601	\$ 3,655,000
3060N	1979	3003	\$ 1,366,315	\$ 5,231,000
3060S	1979	3003	\$ 1,344,010	\$ 5,146,000
3061	1979	3003	\$ 610,330	\$ 2,337,000
3063N	1979	3003	\$ 538,107	\$ 2,061,000
3063S	1979	3003	\$ 535,374	\$ 2,050,000
3065N	1979	3003	\$ 1,445,790	\$ 5,535,000
3065S	1979	3003	\$ 1,445,790	\$ 5,535,000
3066	1979	3003	\$ 576,917	\$ 2,209,000
3067N	1979	3003	\$ 2,256,259	\$ 8,638,000
3067S	1979	3003	\$ 2,256,259	\$ 8,638,000
3070N	1983	4066	\$ 528,737	\$ 1,495,000
3070S	1983	4066	\$ 528,737	\$ 1,495,000
3072N	1983	4066	\$ 717,000	\$ 2,028,000
3072S	1983	4066	\$ 717,000	\$ 2,028,000
3073N	1980	3237	\$ 981,507	\$ 3,486,000
3073S	1980	3237	\$ 981,507	\$ 3,486,000
3074N	1980	3237	\$ 1,110,269	\$ 3,944,000
3074S	1980	3237	\$ 1,110,269	\$ 3,944,000
3075N	1980	3237	\$ 1,930,130	\$ 6,855,000
3075S	1980	3237	\$ 1,930,130	\$ 6,855,000
3076N	1978	2776	\$ 1,036,302	\$ 4,292,000
3076S	1978	2776	\$ 1,036,302	\$ 4,292,000
3077	1978	2776	\$ 708,758	\$ 2,936,000
3078	1978	2776	\$ 448,257	\$ 1,857,000
3080N	1978	2776	\$ 635,890	\$ 2,640,000



WEST VIRGINIA PARKWAYS AUTHORITY

2020 BRIDGE REPLACEMENT COST

STRUCTURE NUMBER	YEAR BID	ENR INDEX	BID PRICE	REPLACEMENT COSTS (ROUNDED)
3080S	1978	2776	\$ 635,890	\$ 2,634,000
3081N	1980	3237	\$ 399,901	\$ 1,421,000
3081S	1980	3237	\$ 399,901	\$ 1,421,000
3082N	1980	3237	\$ 2,687,208	\$ 9,544,000
3082S	1980	3237	\$ 2,687,208	\$ 9,544,000
3083N	1980	3237	\$ 336,301	\$ 1,200,000
3083S	1980	3237	\$ 336,301	\$ 1,200,000
3084N	1980	3237	\$ 821,754	\$ 2,919,000
3084S	1980	3237	\$ 821,754	\$ 2,919,000
3085N	1981	3533	\$ 503,608	\$ 1,639,000
3085S	1981	3533	\$ 503,608	\$ 1,639,000
3086N	1981	3533	\$ 602,286	\$ 1,960,000
3086S	1981	3533	\$ 602,286	\$ 1,960,000
3087N	1980	3237	\$ 990,712	\$ 3,519,000
3087S	1980	3237	\$ 990,712	\$ 3,519,000
3088	1980	3237	\$ 157,856	\$ 561,000
3235E	1981	3533	\$ 385,112	\$ 1,260,000
3235W	1981	3533	\$ 385,112	\$ 1,260,000
3271	1983	4066	\$ 1,213,000	\$ 3,430,000
3272	1983	4066	\$ 1,044,771	\$ 2,955,000
3273	1983	4066	\$ 1,142,945	\$ 3,232,000
3276	1983	4066	\$ 487,747	\$ 1,380,000
4172	1995	5506	\$ 1,328,831	\$ 2,775,000
4178	1995	5506	\$ 814,289	\$ 1,701,000