



New York State Bridge Authority Capital Improvement Program 2025 - 2029 (\$ 000,000's)

September 12, 2024

FACILITY	2024	PROGRAM YEARS					TOTAL
		2025	2026	2027	2028	2029	
Rip Van Winkle Bridge	\$0.000	\$0.500	\$4.000	\$0.000	\$5.000	\$10.000	\$19.500
Kingston-Rhinecliff Bridge	\$10.830	\$0.750	\$7.000	\$0.000	\$10.000	\$0.000	\$17.750
Mid-Hudson Bridge	\$0.250	\$20.750	\$14.500	\$0.000	\$13.000	\$10.000	\$58.250
Newburgh-Beacon Bridge	\$0.150	\$0.250	\$0.500	\$0.000	\$4.500	\$10.000	\$15.250
Bear Mountain Bridge	\$9.000	\$2.000	\$30.050	\$30.050	\$10.500	\$15.000	\$87.600
Walkway over the Hudson	\$0.000	\$1.500	\$0.000	\$0.000	\$1.000	\$0.000	\$2.500
Systemwide (Engineering)	\$3.000	\$3.200	\$9.200	\$7.400	\$4.750	\$3.350	\$27.900
Systemwide (IT Dept.)	\$1.443	\$4.855	\$0.770	\$1.252	\$0.925	\$0.880	\$8.682
Systemwide (Adminstration)	\$0.050	\$0.065	\$0.050	\$0.050	\$0.050	\$0.050	\$0.265
Operations: AET/CMD/TOLLS	\$1.795	\$7.645	\$3.605	\$1.555	\$8.155	\$1.845	\$22.805
Program Total	\$26.518	\$41.515	\$69.675	\$40.307	\$57.880	\$51.125	\$260.502

Board of Commissioners adopted September 19, 2024



**New York State Bridge Authority
Capital Improvement Program
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Engineering

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
R0002 2010	Preventative Maintenance	Rip Van Winkle, Maintenance Painting 2028 - Power tool clean and spot painting of pier steel bents and deck truss superstructure.	CONST					5.000	10.000	15.000	2028- \$5 mil Towers, \$10 mil Deck Truss 2029 - \$10mil Deck & Thru Truss
			OTHER						0.000		
			TOTAL	0.000	0.000	0.000	0.000	5.000	10.000	15.000	
R0006 2013	Facility Rehab	Rip Van Winkle, Approach Paving and NovaChip 2031 - Deck repairs and Overlay	CONST							0.000	2031 - \$3mil
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
R0008	Preventative Maintenance	Rip Van Winkle, Steel Repairs 2025 Light standard Brackets, Design & Construction and 2028 & 2029 Truss Repairs after blast cleaning and painting	CONST		0.500	4.000				4.500	
			OTHER							0.000	
			TOTAL	0.000	0.500	4.000	0.000	0.000	0.000	4.500	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Rip Van Winkle Annual Totals:				\$0.000	\$0.500	\$4.000	\$0.000	\$5.000	\$10.000	\$19.500	<< 2025 - 2029 Total



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Engineering

Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
K0001 2007	Facility Rehab	<u>Kingston-Rhinecliff, Highway Improvements</u> 2031 - Deck Overlay and Approach Paving	CONST							0.000	Biennial Inspection indicates approach highway is in good condition. 2031 - \$5.5mil
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
K0002 2010	Preventative Maintenance	<u>Kingston-Rhinecliff, Program Painting</u> 2024 - Lead Abatement and re-painting of the west and east approach girder spans. 2028 - Maintenance Painting of deck truss	CONST	10.830					10.000	10.000	\$10 Maintenance Painting Deck Truss
			OTHER							0.000	
			TOTAL	10.830	0.000	0.000	0.000	10.000	0.000	10.000	
K0004 2015	Preventative Maintenance	<u>Kingston-Rhinecliff, Electrical Upgrade</u> 2026 - Battery Storage for Generator	CONST			2.000				2.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	2.000	0.000	0.000	0.000	2.000	
K0007	Preventative Maintenance	<u>Kingston-Rhinecliff, Pier Maintenance and Repair</u> Alkali-Silica Issue	CONST			5.000				5.000	
			OTHER		0.750					0.750	
			TOTAL	0.000	0.750	5.000	0.000	0.000	0.000	5.750	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Kingston-Rhinecliff Annual Totals:				\$10.830	\$0.750	\$7.000	\$0.000	\$10.000	\$0.000	\$17.750	<< 2025 - 2029 Total

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Engineering

Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
M0002 2010	Preventative Maintenance	Mid-Hudson, Maintenance Painting 2028 - Power tool clean, steel repairs & paint stiffening truss 2031 - Tower Painting	CONST					10.000		10.000	Postpone contract painting to 2028 & 2031. 2031 - \$8 mil tower painting
			OTHER						0.000		
			TOTAL	0.000	0.000	0.000	0.000	10.000	0.000	10.000	
M0005 2010	Facility Rehab	Mid-Hudson, East Approach Viaduct Spans 2031 - Lead abatement of approach spans including arch truss over the Metro-North rail line.	CONST							0.000	2031 - \$3 mil Paint System remains in satisfactory condition.
			OTHER						0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
M0006 2009	Investigation	Mid-Hudson, Main Cable Inspection 2028 - Inspection of the Main Cable last performed 2018. Opening Main Cable for Investigation and Sampling. Investigation testing / analysis report.	CONST					2.500		2.500	Next scheduled Investigation 2028, 10yrs. See M00015 - Dehumidification / Suspenders
			OTHER						0.000		
			TOTAL	0.000	0.000	0.000	0.000	2.500	0.000	2.500	
M0015 2019	Facility Rehab	Mid-Hudson, Main Cable Suspenders and Cable Dehumidification 2028 - Remove & Replace Main Cable Suspenders, Design 2030-2032 - Install main cable dehumidification system	CONST							0.000	2028 - \$0.500 Design Suspender 2029 - Suspender replacement \$10mil 2030-2032 Main Cable Dehumidification \$50-\$60mil
			OTHER					0.500	10.000	10.500	
			TOTAL	0.000	0.000	0.000	0.000	0.500	10.000	10.500	
M0016 2019	Preventative Maintenance	Mid-Hudson, Rock Cut Stabilization 2025 - West Approach Rock Scaling	CONST		0.500					0.500	
			OTHER							0.000	
			TOTAL	0.000	0.500	0.000	0.000	0.000	0.000	0.500	



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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks	
				2024	2025	2026	2027	2028	2029			
M0017 2020	Facility Rehab	Mid-Hudson, Electrical Upgrade 2025 - Complete bridge electrical wiring removal, install new conductor cables, new load centers and transformers. Lane Use Signal (LUS) replacement / upgrade	CONST		1.500						1.500	
			OTHER							0.000		
			TOTAL	0.000	1.500	0.000	0.000	0.000	0.000	1.500		
M0018 2010	Facility Rehab	Mid-Hudson, East Approach Rehabilitation 2024-2025 - Study & Design 2025-2026 - E. Approach Deck Reconstruction: - East Approach Deck and Viaducts Reconstruction - Railroad Arch Lead Abatement & Painting	CONST		18.000	14.000					32.000	
			OTHER	0.250	0.750	0.500				1.250		
			TOTAL	0.250	18.750	14.500	0.000	0.000	0.000	33.250		
M0019			CONST								0.000	
			OTHER							0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
			CONST								0.000	
			OTHER							0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
			CONST								0.000	
			OTHER							0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Mid-Hudson Annual Totals:				\$0.250	\$20.750	\$14.500	\$0.000	\$13.000	\$10.000	\$58.250	<< 2025 - 2029 Total	



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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
N0014 2023	Facility Rehab	<u>NBB - Maintenance Building Renovation</u> 2025 - Complete Building renovation & window replacement	CONST	0.150				2.500		2.500	
			OTHER						0.000		
			TOTAL	0.150	0.000	0.000	0.000	2.500	0.000	2.500	
N0015 2023	Facility Rehab	<u>NBB - West Approach Roadway</u> 2028 - Drainage, Mill and Re-pave	CONST					2.000		2.000	
			OTHER						0.000		
			TOTAL	0.000	0.000	0.000	0.000	2.000	0.000	2.000	
N0016 2023	Facility Rehab	<u>NBB - South Span Painting</u> 2029 - Maintenance Painting of weathering steel	CONST						10.000	10.000	
			OTHER						0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	10.000	10.000	
N0017	Facility Rehab	<u>NBB - Steel Repairs</u> 2026 - North Span 7, Reset Pier 1 Rocker Bearings 2026 - South Span 7, Rehab PP U58 and U70 bearings	CONST			0.500				0.500	
			OTHER		0.250					0.250	
			TOTAL	0.000	0.250	0.500	0.000	0.000	0.000	0.750	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Newburgh-Beacon Annual Totals:				\$0.150	\$0.250	\$0.500	\$0.000	\$4.500	\$10.000	\$15.250	<< 2025 - 2029 Total

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks		
				2024	2025	2026	2027	2028	2029				
B0002 2007	Preventative Maintenance	<u>Bear Mountain - Maintenance Painting</u> 2023-2024 - Spot clean and overcoat towers. 2029 - Spot clean and overcoat stiffening truss.	CONST	8.900						15.000	15.000	2029, \$15mil - Maintenance paint stiffening truss after deck, parapet and sidewalks replacement project.	
			OTHER							0.000			
			TOTAL	8.900	0.000	0.000	0.000	0.000	15.000	15.000			
B0003 2007 2019	Extra Maintenance	<u>Bear Mountain - Main Cable Safety Handrope and Suspender replacement</u> 2028 - Design / Construction inspection \$2mil 2028 - Remove & replace main cable safety handrope \$2mil 2028 - Remove & replace main cable suspenders \$5mil	CONST						7.000		7.000	Hand rope moved from 2022 to 2028 combine with suspender rope replacement	
			OTHER					2.000		2.000			
			TOTAL	0.000	0.000	0.000	0.000	9.000	0.000	9.000			
B0005 2007	Extra Maintenance	<u>Bear Mountain - Main Cable Evaluation</u> 2028 - Opening Main Cable for Investigation and sampling, Investigation testing / analysis report.	CONST					1.500			1.500	Next Scheduled Investigation 2028, 10yrs. See B0003 - Suspender / Hand cables	
			OTHER							0.000			
			TOTAL	0.000	0.000	0.000	0.000	1.500	0.000	1.500			
B0007 2020	Facility Rehab	<u>Bear Mountain - Deck Replacement</u> 2024-2027 - Replace 50 year old deck, bridge sidewalk, including suicide deterrent fencing and solar panels.	CONST			28.000	28.000				56.000	Design/Design Support '24 - '27; \$2.9mil Construction 2026 - 2027; \$52mil Construction Inspection 2026 - 2027; \$3mil	
			OTHER	0.100	2.000	2.050	2.050				6.100		
			TOTAL	0.100	2.000	30.050	30.050	0.000	0.000	62.100			
B0008			CONST								0.000		
			OTHER								0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
Bear Mountain Annual Totals:				\$9.000	\$2.000	\$30.050	\$30.050	\$10.500	\$15.000	\$87.600	<< 2025 - 2029 Total		



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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
W0001 2010	Investigation	<u>WOTH, Bridge Inspection</u> 2025 - Performed detailed inspection of the bridge structure with hands-on inspection of fracture critical members, 5 year cycle, 2010, 2015, 2020 and 2025, etc.	CONST							0.000	2027 - Underwater inspection to be included with Authority's current 5 yr cycle, see S0002.
			OTHER		0.500					0.500	
			TOTAL	0.000	0.500	0.000	0.000	0.000	0.000	0.500	
W0006 2011	Preventative Maintenance	<u>WOTH, Structural Steel Maintenance Painting</u> 2030 - Cleaning and painting steel bents and select deck truss members	CONST							0.000	Postpone \$15mil 2027 to 2030
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
W0007 2011	Preventative Maintenance	<u>WOTH - River Pier Base Maintenance</u> Grout Repair Piers 2 and 3 2028 - Five (5) year maintenace cycle.	CONST		1.000				1.000	2.000	2023 - Completed Substructure maintenance
			OTHER							0.000	
			TOTAL	0.000	1.000	0.000	0.000	1.000	0.000	2.000	
W0012			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
WOTH Annual Totals:				\$0.000	\$1.500	\$0.000	\$0.000	\$1.000	\$0.000	\$2.500	<< 2025 - 2029 Total



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Engineering

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
S0001	Investigation	<u>General Consultant and Inspections</u> 2024-2029 - Annual detailed inspection of ea. bridge facility with hands on inspection of all fracture critical members. Odd year biennial inspection: KRB & NBB (N&S spans) Even year biennial inspection: RVWB, MHB & BMB	INSP	0.800	0.800	0.800	0.800	0.800	0.900	4.100	NYSBA - Biennial Inspection support, Authority personnel and equipment, UB 60 & 30. Biennial Consultants: 2023 - 2025 Modjeski & Masters, Inc. ATANE, formerly HAKS Engineering CDM Smith Engineering
			NYSBA	0.090	0.090	0.090	0.090	0.090	0.090	0.450	
			TOTAL	0.890	0.890	0.890	0.890	0.890	0.990	4.550	
S0002 2007	Investigation	<u>Periodic Underwater Bridge Inspections</u> 2027 - Diver hands-on inspection & video tape inspections of all Authority in-water piers below the water surface. WOTH river piers included in this inspection cycle. Work include observation and recommendation by professional engineers, 5 yr. cycle.	INSP				0.150			0.150	Mandated by FHWA
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.150	0.000	0.000	0.150	
S0003	Extra Maintenance	<u>BA20XX-RE-10X: In-House Capital Projects</u> 2025-2029 - In-House construction activities	CONST	1.000	1.000	1.000	1.000	1.000	1.000	5.000	
			ENGR	0.310	0.310	0.310	0.310	0.310	0.310	1.550	
			TOTAL	1.310	1.310	1.310	1.310	1.310	1.310	6.550	
S0004	Extra Maintenance	<u>BA2020-RE-109: Capital Maintenance Projects</u> 2021-2023 - Standby readiness contract for urgent bridge, highway repairs. 3yrs term with 2 - 1yr opt. extensions for 2024 and 2025. 2026-2028 - Advertise for new contract.	CONST	0.250	0.250	0.250	0.300	0.300	0.300	1.400	
			OTHER							0.000	
			TOTAL	0.250	0.250	0.250	0.300	0.300	0.300	1.400	
S0005 2008	Preventative Maintenance	<u>Systemwide, River Pier Base Maintenance</u> 2028 - Five (5) cycle: Masonry pier pointing, concrete repairs and rip-rap placement as recommended from underwater visual inspection report.	CONST					1.500		1.500	2023 Maintenance repairs completed.
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	1.500	0.000	1.500	



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Project I.D.	Project Type	Project Title/Description	Phase	Program Years					TOTAL	Remarks	
				2024	2025	2026	2027	2028			2029
S0006 2008	Preventative Maintenance	Systemwide, Substructure Maintenance (Land Piers) 2026 - Partial depth concrete repairs and sealing	CONST			5.500				5.500	Deferred from 2019 - 2021 - 2026 BMB \$0.500 NBB \$2.000 MHB \$1.000 and WOTH \$0.500 KRB \$1.000 + \$5.000 RVW \$0.500
			OTHER							0.000	
			TOTAL	0.000	0.000	5.500	0.000	0.000	0.000	5.500	
S0007	Equipment	Systemwide, Equipment Purchases 2025-2029 - Acquisition of major extraordinary vehicles and equipment necessary to operate and maintain the bridge system.	CONST							0.000	Budget includes electric and security vehicles
			OTHER	0.550	0.750	0.750	0.750	0.750	0.750	3.750	
			TOTAL	0.550	0.750	0.750	0.750	0.750	0.750	3.750	
S0011	Preventative Maintenance	Systemwide, Steel Maintenance Repairs 2027 - Miscellaneous steel and bearing repairs, if needed. Other Design	CONST				4.000			4.000	2027 Cycle: WOTH Steel Maint. Repairs; Perform Priority repairs
			OTHER			0.500				0.500	
			TOTAL	0.000	0.000	0.500	4.000	0.000	0.000	4.500	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Systemwide (Engineering) Annual Totals:				\$3.000	\$3.200	\$9.200	\$7.400	\$4.750	\$3.350	\$27.900	<< 2025 - 2029 Total



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**Information
Technology**

Project I.D.	Project Type	Project Title/Description	Budget	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
SI-0002	IT	2024-2029 - Systemwide - Office Equipment Purchases, Copiers, Printers, plotter, Badge printer, PC upgrades	Budget	0.055	0.045	0.055	0.050	0.055	0.055	0.260	Ops Copier, Badge Printer, PC Alt. years
SI-0003	IT	2024-2029 - Mid-Hudson - Necklace Lights	Budget	0.005	0.005	0.005	0.005	0.005	0.010	0.030	Rehab aging necklace lights installed in 2001; 2023 Replaced lens, power supply, gaskets, etc.
SI-0005	IT	2024 & 2027 - Id Card Access Upgrade	Budget		0.050		0.015			0.065	All Superterm panels needed to be replaced 2024 intergrating into fire security monitoring 24/25
SI-0010	IT	2024-2029 - ITS Components-Multiplexer, cabinet, UPS	Budget	0.400	0.500	0.015	0.015	0.015	0.050	0.595	2024 end of life for all building UPS's. Upgrades and Cabling for racks.
SI-0013	IT	2024-2029 - Windows File server(s) and Web Filter	Budget	0.135	0.135	0.115	0.127	0.060	0.125	0.562	
SI-0023	IT	2027-2028 - Firewall Upgrade	Budget	0.065			0.150	0.150		0.300	Palo Altos reaches end of life
SI-0029	IT	2023-2024 - Systemwide -Backup	Budget	0.065	0.065					0.065	2025 Unitrends / SAN
SI-0032	IT	2024-2029 - Systemwide - Alarm	Budget	0.010	0.510	0.010	0.010	0.010	0.010	0.550	2023 Alarm Assessment / Re-Design
SI-0035	IT	2025, 2027, 2029 - Systemwide Routers and Switches	Budget		0.200		0.150	0.150	0.150	0.650	2025 - 4506 EOL; 2027 - 9200 switch replacement 2028 & 2029 Hirschman upgrade for EOL RS20/30/40
SI-0038	IT	2024 - Systemwide - Security Operations Center	Budget	0.015						0.000	Cyber Security Grant \$49K; NYSBA's portion \$15K
SI-0040	IT	2024 - Systemwide - Weather Station Replacement	Budget	0.250	0.250					0.250	Different system being considered
SI-0041	IT	2023 - Systemwide - Fuel System Upgrade	Budget	0.100						0.000	Next Upgrade 2033
SI-0042	IT	2027 - MHB - CMD CineMassive and Wall Upgrade	Budget				0.250			0.250	Server and video wall upgrade
SI-0043	IT	Executive Confernce room video system upgrade	Budget		0.025					0.025	Upgrade of video equipment
SI-0044	IT	O365 Migration	Budget		0.300					0.300	Migrate from on premise Exchange & Office O365



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Information Technology

Project I.D.	Project Type	Project Title/Description		Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
SO-0011	IT	2024-2029 - UPS (Un-interruptible Power System)	Budget	0.010	0.010	0.100	0.010	0.010	0.010	0.140	Battery Replacement 2026
SO-0012	IT	2024-2029 - Suicide Call Boxes - Upgrade/Replacement	Budget	0.000	0.300	0.010	0.010	0.010	0.010	0.340	
SO-0034	IT	2024-2029 - Systemwide Camera Replacements	Budget	0.200	0.250	0.250	0.250	0.250	0.250	1.250	
SO-0035	IT	2024-2029 - ITS Consultant - Kapsch, Inc	Budget	0.125	0.200	0.200	0.200	0.200	0.200	1.000	Contract renewal 2025 RFP 2024
SO-0040	IT	2024-2029 - Systemwide - License Plate Reader (LPR)	Budget	0.008	0.010	0.010	0.010	0.010	0.010	0.050	LPR Cameras and added capabilities
SO-0041	Eng	2024-2025 - Systemwide - VMS Replacement	Budget	0.000	2.000						
Information Technology (IT) - Annual Totals:				\$1.443	\$4.855	\$0.770	\$1.252	\$0.925	\$0.880	\$8.682	<< 2025 - 2029 Total



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Administration

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Project I.D.	Project Type	Project Title/Description		Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
SA-0001	Admin	2024-2029 - Equipment Purchases, Administration	Budget	0.025	0.025	0.025	0.025	0.025	0.025	0.125	Misc Equipment: printers, Id badges, etc.
SA-0002	Admin	2024-2029 - Business Application Enhancement	Budget	0.025	0.025	0.025	0.025	0.025	0.025	0.125	JDE Version upgrade 2022 Kronos Software Upgrade 2023 I-Series Hardware upgrade 2023
SA-0003	Admin	2024 - Digital Personnel Filing System Upgrade	Budget		0.015					0.015	OnBase Software Upgrade
Administration - Annual Totals:				\$0.050	\$0.065	\$0.050	\$0.050	\$0.050	\$0.050	\$0.265	<< 2025 - 2029 Total



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Operations - AET

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Project I.D.	Project Type	Project Title/Description		Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
SOA-0018	OPS - AET	2024 - Toll System Replacement (Transcore)	Budget	0.750	1.600					1.600	System Acceptance Payments
SOA-0036	OPS - AET	2024-2026 - E-ZPass Interoperability Hub	Budget		0.045	0.045	0.045	0.045	0.045	0.225	New tolling protocol will facilitate seamless travel across North America's tolling facilities.
SOA-0041	OPS - AET	2024 - Toll Sys (Transcore V1.6 E-ZPass IAG Interface S	Budget		0.250					0.250	Back Office Configuration changes / HUB
SOA-0042	OPS - AET	2024 -Toll System (Conduent - Collections)	Budget		0.200					0.200	2024 Implementation with Duncan. 2025 Implementation for newICD with new Collection Agency
SOA-0043	OPS - AET	2025 - Toll System (Conduent - Reg Suspension)	Budget		0.250					0.250	
SOA-0044	OPS - AET	2025-2029 - Toll System (Equipment Maint/Cameras)	Budget		0.200	0.200	0.200	0.200		0.800	Post-System Acceptance Equipment Maintenance
SOA-0045	OPS - AET	2027-2028 - Replacement Toll Collection System	Budget				0.500	5.000	1.000	6.500	Consultant fees/implementation costs
SOA-0046	OPS - AET	2028 - Palo Alto Firewalls	Budget					0.750		0.750	5 - 220s @ ~\$150K each
SOA-0047	OPS - AET	2025 - Toll System (Conduent - Reg Hold Reciprocity)	Budget		0.050	0.250				0.300	
Operations All Electronic Tolling (AET) - Annual Totals:				0.750	2.595	0.495	0.745	5.995	1.045	10.875	<< 2025 - 2029 Total



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Operations - CMD

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Project I.D.	Project Type	Project Title/Description	Budget	Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
SOC-0041	OPS - CMD	2024-2028 - Sidewalk Security Cameras	Budget	<u>BMB</u> 0.210	<u>NBB</u> 1.340	<u>MHB</u> 0.600	<u>RVW</u> 0.450	<u>KRB</u> 0.900		3.290	1/16/24 Swap: BMB 2024; MHB move to 2026
SOC-0042	OPS - CMD	2024-2026 - Pier Detection System	Budget	<u>NBB</u> 0.075	<u>KRB</u> 1.925	<u>RVW</u> 0.500				2.425	
SOC-0043	OPS - CMD	2023-2027 - Mid-Hudson - Command Center, ITS Equip.	Budget	0.250	0.100	0.100	0.100	0.100	0.100	0.500	2024 - Drone detection
SOC-0044	OPS - CMD	2025-2026 SYS - Emergency Gate Installation NBB / MHB / BMB / KRB / RVW	Budget	0.150	0.500	1.500				2.000	Remote-controlled gates at both ends of the bridge to block vehicle access during an emergency, utilizing VMS's / Siren. Design in 2024-2025, begin implementation 2026.
SOC-0045	OPS - CMD	2025 - 2026 Air Gap Sensors	Budget	0.000	MHB 0.125	RVW/BMB 0.250				0.375	Systems that provide real-time water levels, currents, and other oceanographic and meteorological data to vessel pilots; data used to prevent ship collisions with the underside of the bridge deck
SOC-0046	OPS - CMD	2025 - Bullet Proof Glass/Window coverings	Budget	0.000	0.200					0.200	Installation of bullet proof glass and window coverings to better fortify our facilities and enhance the safety and security of our employees and visitors
SOC-0047	OPS - CMD	2028 - Radio Replacement / Upgrade	Budget	0.000				1.000		1.000	Systemwide - Hhandhelds and Vehicle equipment
SOC-0048	OPS - CMD	2025 - Command Center Systems Assessment	Budget	0.000	0.500					0.500	
SOC-0049	OPS - CMD	2027 - Drone Program	Budget	0.000			0.100			0.100	Develop a drone program by certifying pilots and purchasing drones. Utilize for security inspections & other applications
Operations Command Center (CMD) - Annual Totals:				0.685	4.690	2.950	0.650	2.000	0.100	10.390	<< 2025 - 2029 Total



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Operations - Tolls

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Project I.D.	Project Type	Project Title/Description		Program Years						TOTAL	Remarks
				2024	2025	2026	2027	2028	2029		
SOT-0007	OPS - Tolls	2024-2029 - Lane Use Signals, Replacement	Budget	0.025	0.025	0.025	0.025	0.025	0.250	0.350	
SOT-0039	OPS - Tolls	2024-2029 - Fiber Cable Maintenance	Budget	0.100	0.100	0.100	0.100	0.100	0.100	0.500	
SOT-0048	OPS - Tolls	2024-2025 - KRB Dark Fiber	Budget	0.200	0.200					0.200	
SOT-0049	OPS - Tolls	2024-2029 - Data Cabling	Budget	0.035	0.035	0.035	0.035	0.035	0.350	0.490	
Operations Tolls Techs - Annual Totals:				0.360	0.360	0.160	0.160	0.160	0.700	1.540	<< 2025 - 2029 Total