



**Bridge
Authority**

ANDREW M. CUOMO
Governor

TARA SULLIVAN
Acting Executive Director

RICHARD A. GERENTINE
Chairman

FINANCE COMMITTEE

MAY 16, 2019 - 3:00 P.M.

Finance Committee Members

Roderick Dressel, Chairman

Richard Gerentine

Diane Jablonski

- I. Adopt the Minutes of the March 21, 2019 Committee of the Whole Meeting
- II. Review Revised Capital Program approved in 2018
- III. Other Business
- IV. Adjourn

Headquarters | P.O. Box 1010, Highland, New York 12528 | P. (845) 691-7245 F. (845) 691-3560 | www.nysba.ny.gov

RIP VAN WINKLE BRIDGE
P.O. Box 286
Catskill, NY 12414
(518) 943-2360

KINGSTON-RHINECLIFF
BRIDGE
P. O. Box 2992
Kingston, NY 12402
(845) 336-8181

MID-HUDSON BRIDGE
P. O. Box 1010
Highland, NY 12528
(845) 691-7221

NEWBURGH-BEACON
BRIDGE
P. O. Box 28
Beacon, NY 12508
(845) 831-3700

BEAR MOUNTAIN BRIDGE
P. O. Box 323
Ft. Montgomery, NY 10922
(845) 446-4721

New York State Bridge Authority Finance Committee Meeting Minutes of March 21, 2019

The New York State Bridge Authority's Finance Committee met, in a joint meeting with the Audit Committee as a committee of the whole at the Authority's Headquarters in Highland, New York, at 3:05 p.m. on March 21, 2019.

In addition to Finance Committee Chairman Roderick Dressel, Committee members Richard Gerentine and Diane Jablonski, those in attendance were as follows:

Roger Higgins
Henry J. Stanton
Tara Sullivan
Brian Bushek
Carl G. Whitbeck, Jr., Esq.

Upon a motion made by Chairman Higgins and seconded by Mr. Jablonski the minutes of the December 21, 2019 meeting was approved unanimously.

As Committee agendas were the same, the Finance Committee and Audit Committee conducted their meetings in concert. The combined Committees agreed that Commissioner Higgins would Chair this Committee of the whole.

Mr. Bushek introduced Dave Gable, partner with firm EFPR Group, LLP, the Authority's independent accountant. Mr. Gable summarized the EFPR Group 2018 annual report to the Board and said that their firm had audited the financial statements of New York State Bridge Authority (the Authority) for the year ended December 31, 2018 and communicated the following information related to the audit:

- EFPR expressed an unmodified opinion on the financial statements for the year ended December 31, 2018
- EFPR did not identify any material weaknesses in internal control related to financial reporting under government auditing standards
- EFPR issued an examination report on the Authority's compliance with Section 201.3 of Title Two of the Official Compilation of Codes, Rules and Regulations of the State of New York, stating that the Authority complied with those requirements.
- There was a reinstatement of net assets required by implementation of GASB No. 75 of a decrease in net position of \$ 15.77M.
- There were no material uncorrected misstatements detected by our audit procedures

- There were no difficulties in performing the audit

Upon a motion made by Chairman Higgins, seconded by Ms. Jablonski, the 2018 Annual Reports from EFPR Group was accepted unanimously.

Mr. Bushek reviewed the Annual Report per section 2800 Public Authorities law and said it is to be sent to the Governor (Authority Budget Office) and the Comptrollers Office through "PARIS" (Public Authority Reporting Information System) and the ranking majority and minority members of the Senate Finance and Assembly Ways and Means Committees.

Upon a motion made by Chairman Higgins, seconded by Ms. Jablonski, the Annual Report Per Section 2800 Public Authorities Law was accepted unanimously and will be sent to the full Board with both Committees' recommendation for adoption.

Mr. Bushek reviewed the 2018 Public Authorities Law Annual Investment Report and said it is to be sent to the Governor (Authority Budget Office) and the Comptrollers Office through "PARIS" (Public Authority Reporting Information System) and the ranking majority and minority members of the Senate Finance and Assembly Ways and Means Committees.

Upon a motion made by Chairman Higgins, seconded by Ms. Jablonski, the 2018 Public Authorities Law Annual Investment Report was accepted unanimously and will be sent to the full Board with both Committees' recommendation for adoption.

Mr. Bushek reviewed the Trononi, Segarra & Associates Internal Control Systems Auditor Report and stated that the report covers the 2018 portion of the audit plan previously submitted to the Audit Committee. The report reflected no findings identified within the overall scope of the 2018 assessment. Specifically reviewed were: Toll Collection & Revenues (TCR); Cash Management and Investments (CM); Procurement, Accounts Payable, & Employee Travel (AP); and Fixed Asset, Acquisition, Inventory, and Disposal (FA). The Authority continues to demonstrate strong controls and is pleased to note that for these areas the Auditor did not identify any weaknesses.

Upon a motion made by Chairman Higgins, seconded by Ms. Jablonski, the Trononi, Segarra & Associates Internal Control Systems Auditor Report was accepted unanimously.

Having no other business, the meeting adjourned at 3:21 pm.

NEW YORK STATE BRIDGE AUTHORITY
BUSINESS PLAN 2018-2039
REVENUES & EXPENSES AND FUNDS AVAILABLE FOR CAPITAL PROJECTS

Year	Toll Revenues (1) (000)	Operating Expense (2) (000)	Net Operating Revenue (000)	Other Income (3) (000)	Debt Service (000)	Revenue Available for Capital Projects (000)	Capital Projection(4) (000)	Capital Funds Surplus (Deficit)		Coverage Ratio
								Annual (000)	Cumulative (000)	
2018	\$59,020	\$27,007	\$32,013	\$2,618	\$11,237	\$23,394	\$24,329	-\$935	\$48,584	3.08
2019	\$59,100	\$30,027	\$29,073	\$3,250	\$11,237	\$21,086	\$25,025	-\$3,939	\$44,645	2.88
2020	\$68,850	\$31,496	\$37,354	\$1,650	\$11,240	\$27,764	\$42,926	-\$15,162	\$29,483	3.47
2021	\$78,600	\$32,203	\$46,397	\$2,650	\$12,406	\$96,641	\$61,854	\$34,787	\$64,270	3.95
2022	\$78,600	\$33,351	\$45,249	\$2,150	\$13,729	\$33,670	\$69,105	-\$35,435	\$28,835	3.45
2023	\$78,600	\$34,685	\$43,915	\$1,650	\$13,872	\$31,693	\$29,726	\$1,967	\$30,802	3.28
2024	\$78,600	\$36,072	\$42,528	\$1,650	\$13,863	\$30,315	\$36,700	-\$6,385	\$24,416	3.19
2025	\$78,600	\$37,515	\$41,085	\$1,650	\$13,801	\$28,934	\$29,450	-\$516	\$23,900	3.10
2026	\$78,600	\$39,016	\$39,584	\$1,650	\$13,784	\$27,450	\$33,015	-\$5,565	\$18,335	2.99
2027	\$78,600	\$40,577	\$38,023	\$1,650	\$13,820	\$25,853	\$28,815	-\$2,962	\$15,373	2.87
2028	\$78,600	\$42,200	\$36,400	\$1,650	\$7,865	\$30,185	\$27,615	\$2,570	\$17,944	4.84
2029	\$78,600	\$43,888	\$34,712	\$1,650	\$7,867	\$28,495	\$13,805	\$14,690	\$32,634	4.62
2030	\$78,700	\$45,643	\$33,057	\$1,650	\$7,866	\$26,841	\$7,890	\$18,951	\$51,585	4.41
2031	\$78,800	\$47,469	\$31,331	\$1,650	\$7,865	\$25,116	\$5,650	\$19,466	\$71,051	4.19
2032	\$78,800	\$49,368	\$29,432	\$1,650	\$7,863	\$23,219	\$52,650	-\$29,431	\$41,620	3.95
2033	\$78,800	\$51,342	\$27,458	\$1,650	\$7,866	\$21,242	\$46,650	-\$25,408	\$16,212	3.70
2034	\$78,800	\$53,396	\$25,404	\$1,650	\$7,867	\$19,187	\$8,650	\$10,537	\$52,157	3.44
2035	\$78,800	\$55,532	\$23,268	\$1,650	\$7,866	\$17,052	\$56,650	-\$39,598	-\$23,386	3.17
2036	\$78,800	\$57,753	\$21,047	\$1,650	\$7,867	\$14,830	\$53,650	-\$38,820	\$13,337	2.89
2037	\$78,800	\$60,063	\$18,737	\$1,650	\$0	\$20,337	\$3,650	\$16,737	\$68,894	
2038	\$78,800	\$62,466	\$16,334	\$1,650	\$0	\$17,984	\$9,090	\$8,894	\$61,051	
2039	\$78,800	\$64,964	\$13,835	\$1,650	\$0	\$15,485	\$101,090	-\$85,605	-\$108,991	

- (1) 2019 Revenues are estimated to rise to \$59.1 million and assumes revenues stay flat through 2020. In 2020 assumes a 33% revenue increase mid year. The 2020 toll schedule revision is required solely to support the capital program. Between 2030 and 2031 toll revenue is expected to grow again by 0.3%.
- (2) Incorporates forecasted September 2018 budget for 2019 through 2022 and annual increases between 3% to 4% for all other costs thereafter. Estimates do not include depreciation expense, equipment cost (allowed for in Capital Projections), postemployment benefits which began in 2007, GASB 68 that began in 2015, or mark to market on Investments that began in 2017. Does not provide for any impact as a result of all electronic tolling.
- (3) Based on 2019 Budget and Financial Plan for interest and miscellaneous income in 2019 through 2022 plus the Empire State Trail funds. Thereafter, interest approximated at a static amount on the basis of a declining balances available to invest offset by rising interest rates. Assumes interest rates continue to be lower than levels experienced prior to 2008, revised overweight changes, advertising, and fiber leasing increase the annual miscellaneous income estimate.
- (4) Capital Improvement Based on latest Engineering Estimate
- 5) Estimates assume \$60 million in new money in 2021 to finance the North Span Newburgh Beacon redecking. This borrowing leaves MRF with sufficient funds through 2034.



**Bridge
Authority**

**New York State Bridge Authority
Capital Improvement Program
2019 - 2023
(\$ 000,000's)**

**Updated
April 10, 2019**

FACILITY	2018	PROGRAM YEARS					TOTAL
		2019	2020	2021	2022	2023	
Rip Van Winkle Bridge	\$1.760	\$0.775	\$2.000	\$0.000	\$10.000	\$0.000	\$12.775
Kingston-Rhinecliff Bridge	\$0.245	\$1.800	\$5.000	\$0.000	\$6.000	\$10.000	\$22.800
Mid-Hudson Bridge	\$1.875	\$0.550	\$10.750	\$6.000	\$2.000	\$0.000	\$19.300
Newburgh-Beacon Bridge	\$7.900	\$12.100	\$7.000	\$41.500	\$36.500	\$5.750	\$102.850
Bear Mountain Bridge	\$0.575	\$0.025	\$3.000	\$0.000	\$0.500	\$10.000	\$13.525
Walkway over the Hudson	\$3.120	\$1.910	\$0.400	\$0.000	\$0.000	\$0.000	\$2.310
Systemwide (Engineering)	\$2.910	\$3.750	\$4.550	\$3.350	\$3.300	\$3.200	\$18.150
Systemwide (IT Dept.)	\$0.703	\$0.440	\$0.321	\$0.439	\$0.270	\$0.241	\$1.711
Systemwide (Administration)	\$0.301	\$0.040	\$0.120	\$0.070	\$0.040	\$0.040	\$0.310
Systemwide (Operations)	\$2.530	\$3.635	\$9.785	\$10.495	\$10.495	\$0.495	\$34.905
Program Total	\$21.919	\$25.025	\$42.926	\$61.854	\$69.105	\$29.726	\$228.636

Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2018	2019	2020	2021	2022	2023		
R0001 2009	Facility Rehab	Rip Van Winkle, Electrical Upgrade Complete bridge electrical wiring removal, install new conductor cables, new load centers and transformers.	CONST			1,000				1,000	
			OTHER							0,000	
			TOTAL	0,000	0,000	1,000	0,000	0,000	0,000	1,000	
R0002 2010	Preventive Maintenance	Rip Van Winkle, Maintenance Painting Power tool clean and spot painting of pier steel bents and Deck Truss.	CONST			Deleted 1m		10,000 Increased		10,000	2020 : \$1 mill - Towers 2022: \$2 mill - Deck Truss
			OTHER							0,000	
			TOTAL	0,000	0,000	0,000	0,000	10,000	0,000	10,000	
R0003 2010 2013	Facility Rehab	Rip Van Winkle, Bridge Railing Replacement and sidewalk replacement Complete bridge railing removal and replacement. Pedestrian walkway railing and roadway railings atop parapet walls, including pedestrian sidewalk replacement. C.O. #2 - parapet wall railing \$728K	CONST	1,250						0,000	Greene County Grant - three (3) sidewalk viewpoints, \$460K grant reimbursement anticipated in 2018
			OTHER							0,000	
			TOTAL	1,250	0,000	0,000	0,000	0,000	0,000	0,000	
R0006 2013	Facility Rehab	RWV - Approach Paving and Novachip Mill and Fill approach roadway and Novachip overlay main bridge.	CONST			1,000				1,000	
			OTHER							0,000	
			TOTAL	0,000	0,000	1,000	0,000	0,000	0,000	1,000	
R0007 2017	Facility Rehab	RWV - Truss Link Rehab Structural Rehabilitation of the west abutment truss links M&M Design	CONST	0,350	0,775					0,775	
			OTHER	0,160						0,000	
			TOTAL	0,510	0,775	0,000	0,000	0,000	0,000	0,775	

New York State Bridge Authority
Capital Improvement Program
2019 - 2023
(\$ 000,000's)

Engineering

April 10, 2019
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Project ID.	Project Type	Project Title/Description	Phase	2018	2019	2020	2021	2022	2023	TOTAL	Remarks
K0001 2007 K0003 2010	Facility Rehab	Kingston-Rhinecliff, Highway Improvements K1 - West & East Approach Highway Improvements, \$1 mil K3 - Replace deck overlay with "NovaChip", \$2 mil.	CONST			3,000				3,000	Biennial Inspection indicates approach roadway is in good condition. Moved from 2018 to 2020 and incorporate with R0006 - \$1.0; M0003 - \$3.0 = \$7.0 total K0003 - Incorporated with approach resurfacing.
			OTHER							0,000	
			TOTAL	0,000	0,000	3,000	0,000	0,000	0,000	3,000	
K0002 2010	Preventive Maintenance	Kingston-Rhinecliff, Program Painting Lead Abatement and re-painting of the west and east approach girder spans.	CONST					6,000		6,000	\$6 mil delayed to 2022, paint remains in good condition.
			OTHER							0,000	
			TOTAL	0,000	0,000	0,000	0,000	6,000	0,000	6,000	
K0004 2015	Preventive Maintenance	Kingston-Rhinecliff, Electrical Upgrade Replace bridge power and lighting cables	CONST			2,000				2,000	
			OTHER							0,000	
			TOTAL	0,000	0,000	2,000	0,000	0,000	0,000	2,000	
K0005 2017	Facility Improvement	Kingston-Rhinecliff, Solar Project CHG&E Interconnection Fee	CONST							0,000	
			OTHER	0,085						0,000	
			TOTAL	0,085	0,000	0,000	0,000	0,000	0,000	0,000	
K0006 2018	Facility Improvement	Kingston-Rhinecliff, Pedestrian Walkway Provide safe pedestrian crossing between Ulster and Dutchess counties. Furnish and install concrete barrier, pavement markings and approach roadway sidewalk.	CONST		1,500				10,000 Added	11,500	Empire State Trail - Continuous link between Ulster & Dutchess Counties via Kingston-Rhinecliff Bridge. Added \$10mil and \$20mil 2024 for pedestrian sidewalk
			OTHER	0,160	0,300					0,300	
			TOTAL	0,160	1,800	0,000	0,000	0,000	10,000	11,800	

Project I.D.	Project Type	Project Title/Description	Phase	2018	2019	2020	2021	2022	2023	TOTAL	Remarks
M0002	Preventive Maintenance	Mid-Hudson, Maintenance Painting Power tool clean and spot paint stiffening truss & towers	CONST					2.000		2.000	Postpone contract painting from 2020 to 2022.
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	2.000	0.000	2.000	
M0003	Facility Rehab	Mid-Hudson, Approach and Bridge Paving Mill and fill main span overlay with asphalt waterproofing membrane. Replace asphaltic plug joints. Pavement Joint repairs, drainage upgrade and cleaning, milling and re-pave, and striping. Replace Approach median barrier.	CONST				3.000			3.000	Deferred to 2021
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	3.000	0.000	0.000	3.000	
M0005	Facility Rehab	Mid-Hudson, East Approach Viaduct Spans Lead abatement of approach spans including arch truss over the Metro-North rail line.	CONST				3.000			3.000	Postponed from 2018 to 2021, \$3 mil Paint System remains in good condition.
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	3.000	0.000	0.000	3.000	
M0006	Investigation	Mid-Hudson, Main Cable Inspection 1) Inspection of the Main Cable last performed 2009. Opening Main Cable for Investigation and Sampling. Investigation testing / analysis report.	CONST	1.800						0.000	Next scheduled Investigation 2027, 10yrs.
			OTHER	0.075	0.050					0.050	
			TOTAL	1.875	0.050	0.000	0.000	0.000	0.000	0.050	
M0010	Facility Improvement	Mid-Hudson, East Anchorage Rehab East Anchorage Rehabilitation	CONST		0.500					0.500	Deferred from 2018 to 2019
			OTHER							0.000	
			TOTAL	0.000	0.500	0.000	0.000	0.000	0.000	0.500	



**New York State Bridge Authority
Capital Improvement Program
2019 - 2023
(\$ 000,000's)**

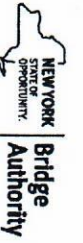
Engineering

Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2018	2019	2020	2021	2022	2023		
M0014 2016	Facility Improvement	Mid-Hudson, Old Administration Building Old Admin building renovation- new HVAC system- for record storage 0.500 2019	CONST							0.000	Deferred from 2018 to 2019
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
M0013 2019	Facility Improvement	Mid-Hudson, Star Building Loading Dock w/ Roof system addition	CONST			0.750				0.750	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.750	0.000	0.000	0.000	0.750	
M0014 2019	Facility Rehab	Mid-Hudson Bridge Remove and Replace bridge curbing & box beam railing	CONST			10.000				10.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	10.000	0.000	0.000	0.000	10.000	
M0015 2019	Facility Rehab	Mid-Hudson Bridge Remove and Replace Main Cable Suspenders	CONST							0.000	\$10 mill - 2024
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
M0016 2019	Preventive Maintenance	Mid-Hudson Bridge West Approach Rock Scaling	CONST							0.000	\$0.500 mill - 2024
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Project I.D.	Project Type	Project Title/Description	Phase	2018	2019	2020	2021	2022	2023	TOTAL	Remarks	
N0005 2007	Facility Improvement	Newburgh-Beacon, Approach Interchange I-84 / Rte. 9W Overpass; Rehabilitation project: Deck Replacement and raising the floor system for vertical clearance and west approach reconstruction. 2016 - Rte 9W Design 2018 - 2019: Construction & Construction Inspection	CONST	5.800	8.850					8.850	1) \$2 mill west approach reconstruction and new truck median barrier has been included in the 9W / I-84 rehabilitation project; 2018 - 2019	
			ENGR	0.450	0.400					0.400		
			TOTAL	0.450	9.250	0.000	0.000	0.000	0.000	9.250		
N0008 2014	Facility Rehab	NBB - North Span Deck Replacement Replace deck, replace parapet wall, place polymer waterproofing overlay and install new LUS / gables.	CONST			5.000	40.000	35.000	5.000	85.000	Award NBB Deck - Fall/Winter 2020 -\$90mil deck replacement 2020, 2021, 2022 and 2023 project closeout/reinlage. -Design Deck Replacement 2019 - 2020 -Construction Award Fall 2020; start East & West approach crossover.	
			OTHER		0.500	0.750	1.500	1.500	0.750	5.000		
			TOTAL	0.000	0.500	5.750	41.500	36.500	5.750	90.000		
N0009 2015	Extra Maintenance	NBB - North Span Steel and Deck Repairs 2016 - Deck shoring & deck repairs Pier 1 to Pier 15 2016 - Gusset plate repairs, main Span Pier 4 to Pier 7	CONST	1.350						0.000		
			OTHER	0.650								0.000
			TOTAL	2.000	0.000	0.000	0.000	0.000	0.000	0.000		
N0010 2016	Extra Maintenance	NBB - North Span Catwalk & Cable Tray Upgrade Lower & Upgrade Catwalk to OSHA Compliance and Upgrade Utility Cable Tray system.	CONST	5.180	0.320					0.320		
			OTHER	0.270	0.030							0.030
			TOTAL	5.450	0.350	0.000	0.000	0.000	0.000	0.350		
N0012 2016	Extra Maintenance	NBB - South Span Pedestrian Walkway Repairs Remove and replace sidewalk stringers and plates Repairs more than originally anticipated, therefore 2nd yr.	CONST		1.750	1.000				2.750		
			OTHER		0.250	0.250						0.500
			TOTAL	0.000	2.000	1.250	0.000	0.000	0.000	3.250		

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Project I.D.	Project Type	Project Title/Description	Phase	2018	2019	2020	2021	2022	2023	TOTAL	Remarks
W00001	Investigation	WOTH, Bridge Inspection Performed detailed inspection of the bridge structure with hands-on inspection of fracture critical members, 5 year cycle, 2010 and 2015. 2017 - Underwater inspection to be included with Authority's current 5 yr cycle, see S0002.	CONST OTHER TOTAL	 0.000	 0.000	 0.400 0.400	 0.000	 0.000	 0.000	0.000 0.400 0.400	M&M: WOTH Bridge Inspection 105.1 ES 2025 - \$0.500 Biennial Inspection
W00006	Preventative Maintenance	WOTH, Steel Repairs and Misc. Painting 2018 priority steel repairs. Misc. cleaning and painting approach tower lower base steel.	CONST OTHER TOTAL	2.650 0.470 3.120	1.545 0.065 1.610	 0.000	 0.000	 0.000	 0.000	1.545 0.065 1.610	Postponed Painting from 2021 to 2024: Revised program 2024: \$35 mil total \$10 mil 2024; \$10 mil 2025; \$10 mil 2026; Include \$2.6 mil for additional steel repairs 2024
W00007	Preventative Maintenance	WOTH - River Pier Base Repairs 1) 2017 Under water pier inspection 2) Concrete pier base repairs pending inspection findings combine with S0005 -Sys pier base repairs	CONST OTHER TOTAL	 0.000	0.300 0.300	 0.000	 0.000	 0.000	 0.000	0.300 0.000 0.300	
			CONST OTHER TOTAL	 0.000	 0.000	 0.000	 0.000	 0.000	 0.000	0.000 0.000 0.000	
			CONST OTHER TOTAL	 0.000	 0.000	 0.000	 0.000	 0.000	 0.000	0.000 0.000 0.000	



**New York State Bridge Authority
Capital Improvement Program
2019 - 2023
(\$ 000,000's)**

Engineering

Project I.D.	Project Type	Project Title/Description	Phase	2018	2019	2020	2021	2022	2023	TOTAL	Remarks
S0001	Investigation	BA2017-RE-103: General Consultant and Inspections Annual detailed inspection of each bridge facility with hands on inspection of all fracture critical members. Odd year biennial inspection: KRB & NBB (N&S spans) Even year biennial inspection: RYWB, MHB & BMB	INSP	0.550	0.600	0.650	0.700	0.750	0.800	3.500	NYSBA - Biennial Inspection support, Authority personnel and equipment, UB 50 & 30.
			NYSBA		0.090	0.090	0.090	0.090	0.090	0.450	Biennial Consultants: Modjeski & Masters, Inc. HAKS Engineering WSP Engineering
			TOTAL	0.550	0.690	0.740	0.790	0.840	0.890	3.950	
S0002	Investigation	Periodic Underwater Bridge Inspections Diver hands-on inspection and video tape inspections of all Authority in-water piers below the water surface. Work include observation and recommendation by professional engineers, 5 yr. cycle.	INSP					0.150		0.150	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.150	0.000	0.150	
S0003	Extra Maintenance	BA20XX-RE-10X: In-House Capital Projects 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	BA2016-RE-101: Capital Maintenance Projects Standby readiness contract for urgent bridge and highway repairs.	CONST	0.400	0.500	0.500	0.500	0.500	0.500	2.500	
			OTHER							0.000	
			TOTAL	0.400	0.500	0.500	0.500	0.500	0.500	2.500	
S0005	Preventive Maintenance	Systemwide, River Pier Base Repairs Masonry pier pointing, concrete repairs and rip-rap placement as recommended from underwater and visual inspections.	CONST		0.750					0.750	NBB \$0.500 KRB \$0.250
			OTHER							0.000	
			TOTAL	0.000	0.750	0.000	0.000	0.000	0.000	0.750	

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**New York State Bridge Authority
Capital Improvement Program
2019 - 2023**

(\$ 000,000's)

Operations

April 10, 2019
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Project I.D.	Project Type	Project Title/Description	2018	2019	2020	2021	2022	2023	TOTAL	Remarks
SO-0001	OPS	E-Z PASS - Cashless Tolling Study		0.250	0.250				0.500	Conduct Study 2019-2020
SO-0003	OPS	All Electronic Tolling (AET), Plaza Removal			7.000	5.000	5.000		17.000	
SO-0004	OPS	Toll System Upgrade / Toll Gates / Lane Monitors / Antenna replacement and Security Gates	0.100	0.100	0.100	0.100	0.100	0.100	0.500	Replace Toll Gates & Monitors Security Gates
SO-0006	IT/OPS	Mid-Hudson - Command Center, ITS Equip.		0.725	0.000	0.000	0.000	0.000	0.725	2018: \$225K Video wall upgrade 2019: \$500K Video System Integration \$200K/yr ITS Equip. repair/replacement upgrades
SO-0007	OPS	Lane Use Signals, Replacement	0.025	0.025	0.025	0.025	0.025	0.025	0.125	
SO-0008	OPS	Plaza & Central Server Upgrades	0.015	0.015	0.015	0.015	0.015	0.015	0.075	
SO-0011	OPS	UPS (Un-interruptible Power System)	0.010	0.010	0.100	0.010	0.010	0.010	0.140	
SO-0012	OPS	Suicide Call Boxes - Upgrade / Replacement	0.225	0.005	0.005	0.005	0.005	0.005	0.025	Upgrade Suicide Callbox 2018 - 2019
SO-0018	OPS	Toll System Replacement				5.000	5.000		10.000	
SO-0030	OPS	Security Camera Replacement / Upgrade	1.500	1.100					1.100	Kapsch/Citling 2019 - Sidewalk Motion Detection
SO-0031	OPS	Security Enhancement/Hardening - Perimeter Fencing	0.270						0.000	
SO-0033	OPS	Systemwide - EJ Ward (Fuel Dispensing Upgrade)	0.015	0.015	0.015	0.015	0.015	0.015	0.075	
SO-0034	OPS	Systemwide Cameras Replacements	0.200	0.200	0.200	0.200	0.200	0.200	1.000	
SO-0035	OPS	ITS Consultant - Kapsch, Inc	0.125	0.125	0.125	0.125	0.125	0.125	0.625	
SO-0036	OPS	National Interoperability (NICOP) Protocol New tolling protocol will facilitate seamless travel across North America's tolling facility via multi-protocol reader.			0.500				0.500	
SO-0037	OPS	NBB (N&S) - Fiber Optic Replacement North America's tolling facility via multi-protocol reader.	0.000	1.000					1.000	Kapsch - North Span 2017-2018
SO-0038	OPS	VMS Upgrade - Systemwide	0.015	0.015	1.000				1.015	Dynac
SO-0039	OPS	RWW Bridge - Fiber Relocation	0.030						0.000	Added 4-4-18
SO-0040	OPS	Systemwide - LPR		0.050	0.450				0.500	2019 - Replace and upgrade servers. Add additional server for redundancy. 2020 - Replace LPR Cameras and add capabilities

**NEW YORK STATE BRIDGE AUTHORITY
BOARD RESOLUTION**

Resolution No.: _____

Resolution Date: _____

WHEREAS, the Board of Commissioners of the New York State Bridge Authority has reviewed the revised 2019-2023 Capital Program for scope and cost; and

WHEREAS, the Authority's Directors and Executive Office have performed a six month review and several projects have been prioritized; now therefore

BE IT RESOLVED that the updated 2019-2023 Capital Program in the amount of \$228,636,000.00 be approved; and

BE IT FURTHER RESOLVED that the Acting Executive Director, or her designee, is hereby authorized and directed to take the necessary measures to implement this resolution.

IN WITNESS WHEREOF, this resolution has been duly adopted this 16th day of May 2019.

Tara Sullivan, Secretary