New York State Bridge Authority
Capital Improvement Program
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Updated
September 2, 2011

FACILITY	2011	PROGRAM YEARS 2012	2013	2014	2015	2016	FIVE YEAR TOTAL
Rip Van Winkle Bridge	$0.000	$0.000	$0.000	$1.000	$4.000	$0.000	$5.000
Kingston-Rhinecliff Bridge	$0.000	$0.000	$1.600	$0.000	$0.000	$0.000	$1.600
Mid-Hudson Bridge	$0.803	$1.194	$1.000	$0.000	$4.000	$5.000	$11.194
Newburgh-Beacon Bridge	$9.424	$3.000	$23.000	$26.000	$39.000	$10.500	$101.500
Bear Mountain Bridge	$0.009	$0.045	$0.000	$0.000	$2.000	$0.000	$2.045
Walkway over the Hudson	$1.908	$3.525	$2.700	$0.025	$0.400	$5.300	$11.950
Systemwide (Engineering)	$2.391	$2.734	$4.638	$2.256	$2.415	$2.430	$14.473
Systemwide (IT Dept.)	$3.729	$0.608	$0.737	$1.415	$0.817	$0.500	$4.077
Systemwide (Adm. & Ops.)	$0.670	$0.295	$0.545	$4.045	$0.045	$1.800	$6.730
Capital Program Totals.....	$18.934	$11.401	$34.220	$34.741	$52.677	$25.530	$158.569

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Project I.D.	Project Type	Project Title/Description	Phase	2011	2012	2013	2014	2015	2016	TOTAL	Remarks
					Program Years						
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	0.000	1.000	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.	CONST					1.000		1.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	1.000	0.000	1.000	
R0003 2010	Facility Rehab	**Rip Van Winkle, Bridge Railing Replacement** Complete bridge railing removal and replacement. Pedestrian walkway railing and roadway railings atop parapet walls.	CONST					3.000		3.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	3.000	0.000	3.000	
			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	

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Project I.D.	Project Type	Project Title/Description	Phase	2011	2012	2013	2014	2015	2016	TOTAL	Remarks
				Program Years							
K0001 2007	Facility Rehab	**Kingston-Rhinecliff, Highway Improvements** West & East Approach Highway Improvements	CONST			1.250				1.250	
			OTHER							0.000	
			TOTAL	0.000	0.000	1.250	0.000	0.000	0.000	1.250	
K0002 2010	Preventive Maintenance	**Kingston-Rhinecliff, Program Painting** Lead Abatement and re-painting of the west and east approach girder spans.	CONST							0.000	$6 million to 2018
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
K0003 2008	Facility Improvement	**Kingston-Rhinecliff, Building Renovations** Administration Building Renovations	CONST			0.350				0.350	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.350	0.000	0.000	0.000	0.350	
			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	

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Project I.D.	Project Type	Project Title/Description	Phase	2011	Program Years 2012	2013	2014	2015	2016	TOTAL	Remarks
M0001 2010	Facility Rehab	**BA2010-RE-107: Mid-Hudson, E. Approach Roadway** Deck and Joint repairs, Waterproofing asphalt overlay	CONST	0.089	0.800					0.800	Design assignment initiated 2010, with schedule bid opening Spring 2012
			OTHER							0.000	
			TOTAL	0.089	0.800	0.000	0.000	0.000	0.000	0.800	
M0002 2010	Preventive Maintenance	**Mid-Hudson, Maintenance Painting** Power tool clean and spot paint stiffening truss & towers	CONST					1.000	1.000	2.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	1.000	1.000	2.000	
M0003 2008	Facility Rehab	**Mid-Hudson, Main Span Overlay** Mill and fill main span overlay with asphalt waterproofing membrane. Replace asphaltic plug joints	CONST			1.000				1.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	1.000	0.000	0.000	0.000	1.000	
M0004	Facility Improvement	**Mid-Hudson, Building Renovations** Traffic management command center completed 2011 Administration building roof, HVAC, windows, doors, 2012	CONST	0.426	0.394					0.394	2012 - Building Renovations & Asbestos Removal 2012 - Administration Roof
			OTHER							0.000	
			TOTAL	0.426	0.394	0.000	0.000	0.000	0.000	0.394	
M0005 2010	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	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	3.000	0.000	3.000	

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Project I.D.	Project Type	Project Title/Description	Phase	2011	2012	2013	2014	2015	2016	TOTAL	Remarks
					Program Years						
M0006 2008	Investigation	**BA2009-RE-103: Mid-Hudson, Main Cable Inspection** 2009 Evaluation and Inspection of the Main Cable. • Federation participation of BTC model for suspension bridge main cable, parallel strand strength by Bridge Technology consulting. Evaluate extending inspection cycle to 10 years - 2019.	CONST	0.200					2.000	2.000	
			OTHER							0.000	
			TOTAL	0.200	0.000	0.000	0.000	0.000	2.000	2.000	
M0007 2010	Investigation	**BA2010-RE-109: Railroad Arch Study** Annual inspections uncovered floor system damage. Structural survey to evaluate the foundation's position. Project approved Sept. 2010, added Jan 2011	CONST							0.000	
			OTHER	0.088						0.000	
			TOTAL	0.088	0.000	0.000	0.000	0.000	0.000	0.000	
M0008 2011	Facility Rehab	**Mid-Hudson, West Approach Roadway Paving**	CONST						2.000	2.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	2.000	2.000	
			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	

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Project I.D.	Project Type	Project Title/Description	Phase	2011	Program Years 2012	2013	2014	2015	2016	TOTAL	Remarks
N0001 2007	Facility Rehab	**Newburgh-Beacon, South Span Deck Replacement**	CONST			22.000	25.000	30.000		77.000	2012 - Design Services 2013 - 2014; Construction & Inspection
		Replace deck, upgrade electrical system, install waterproofing overlay, seismic retro-fit and and select painting of weathering steel.	ENGR		1.000	1.000	1.000	1.000		4.000	
			TOTAL	0.000	1.000	23.000	26.000	31.000	0.000	81.000	
N0002 2008	Preventive Maintenance	**BA2009-RE-104: NBB, North Span Painting**	CONST	9.024				7.500	8.000	15.500	Metro-North Flagman Service paid $40K 2010, existing BA2009-RE-101MNRR Contract Balance from 2010 carried over to 2010, $224K Phase II postponed till 2015 with $8.5 mil paint continues 2017
		Full structure coating in compliance with lead abatement regulations, including girder spans, deck trusses, thru truss, beam spans and floor system. Paint program over 5 years.	INSPECT	0.400				0.500	0.500	1.000	
			TOTAL	9.424	0.000	0.000	0.000	8.000	8.500	16.500	
N0003 2009	Preventive Maintenance	**Newburgh-Beacon, North Span Overlay** **BA2010-RE-103 - Design Services, M&M**	CONST		2.000					2.000	
		Remove existing concrete overlay and install a "Rosphalt" asphaltic waterproofing membrane.	OTHER							0.000	
			TOTAL	0.000	2.000	0.000	0.000	0.000	0.000	2.000	
N0005 2000	Facility Improvement	**Newburgh-Beacon, Approach Interchanges**	CONST							0.000	1) Federation Project, $35 mil, post 2016 for "All electronic tolling" (AET) requirements. 2) In 2000, our General Consultant indicated that this structure is nearing its useful service life due to low fatigue capacity and low clearance. Federation Project, $10 mil, 2014 postponed 2018
		Replace I-84 structure over Rte. 9W, west approach **Revised 5/18/11 - $10 mil postponed from 2014 to 2018**	OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
N0006 2011	Facility Improvement	**Newburgh-Beacon, East & West Approach Paving**	CONST						2.000	2.000	
		Approach highway resurfacing I-84, maintenance jurisdiction between east approach Rte. 9D and west approach Rte, 9W, excluding bridge surface.	OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	2.000	2.000	

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				Program Years							
B0001 2010	Facility Rehab	**BA2010-RE-104: Bear Mountain - Toll Plaza Paving** Mill existing plaza asphalt overlay and replace with rut resistant asphalt.	CONST	0.009						0.000	
			OTHER							0.000	
			TOTAL	0.009	0.000	0.000	0.000	0.000	0.000	0.000	
B0002 2007	Preventive Maintenance	**Bear Mountain - Maintenance Painting** Spot clean and painting of towers and stiffening truss	CONST							0.000	$1 mil, deleted 3/23/11, post 2016
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
B0003 2007	Extra Maintenance	**Bear Mountain - Main Cable Safety Handrope** Remove and replace main cable safety handrope and stanchions.	CONST					2.000		2.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	2.000	0.000	2.000	
B0004 2011	Extra Maintenance	**Bear Mountain - Replacement Light Poles** New Light Poles for LED Luminaires	CONST		0.045					0.045	
			OTHER							0.000	
			TOTAL	0.000	0.045	0.000	0.000	0.000	0.000	0.045	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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W0001 2010	Investigation	**BA2010-RE-105: WOTH, Bridge Inspection** Performed detailed inspection of the bridge structure with hands-on inspection of fracture critical members, 5 year cycle, 2010 and 2015. 2012 - Underwater inspection to be included with Authority's current 5 yr cycle, see S0002.	CONST							0.000	M&M; WOTH Bridge Inspection 105.1 ES
			OTHER	0.390	0.025	0.100	0.025	0.400		0.550	Bergmann Associates; As-Built records. 105ES
			TOTAL	0.390	0.025	0.100	0.025	0.400	0.000	0.550	
W0002 2010	Preventive Maintenance	**Walkway-over-the-Hudson, Land pier stabilization** Remove overgrowth on and adjacent to substructure units.	CONST		0.350					0.350	
			OTHER							0.000	
			TOTAL	0.000	0.350	0.000	0.000	0.000	0.000	0.350	
W0003 2010	Facility Rehab	**Walkway-over-the-Hudson, Steel Repairs** Continue with removal and replacement of lateral connection plates and strengthening of sway frames.	CONST			2.600				2.600	
			OTHER							0.000	
			TOTAL	0.000	0.000	2.600	0.000	0.000	0.000	2.600	
W0004 2010	Facility Rehab	**Walkway-over-the-Hudson, Navigational Lighting** USCG requirement for navigational lighting	CONST		0.150					0.150	
			OTHER	0.068						0.000	
			TOTAL	0.068	0.150	0.000	0.000	0.000	0.000	0.150	
W0005 2010	Investigation	**BA2011-RE-103: WOTH, As-Built Design Review** Structural analysis and rating of bridge components for conversion of Poughkeepsie Railroad Bridge to WOTH pedestrian bridge.	CONST	0.250						0.000	
			OTHER							0.000	
			TOTAL	0.250	0.000	0.000	0.000	0.000	0.000	0.000	

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				Program Years							
W0006 2011	Preventative Maintenance	**WOTH, Steel Repairs and Painting** Begin multi-year program of steel repairs. Program to include cleaning and painting the bridge.	CONST						5.000	5.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	5.000	5.000	
W0007 2011	Preventive Maintenance	**WOTH - River Pier Base Repairs** Reconstruct concrete pier base units. River pier re-pointing	CONST						0.300	0.300	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.300	0.300	
W0008 2011	Facility Rehab	**BA2011-RE-103-CM** **WOTH - Emergency Repairs - Bridge stabilization for high wind conditions, Phase I** Installation of additional anchor bolts for approach piers and re-construction of select masonry approach piers. New anchor bolts will restore shear capacity for 100 mph winds.	CONST	1.200						0.000	
			OTHER							0.000	
			TOTAL	1.200	0.000	0.000	0.000	0.000	0.000	0.000	
W0009 2011	Facility Rehab	**WOTH - Emergency Repairs - Bridge stabilization for high wind conditions, Phase II** Furnish and Install 30 new lateral bracing members to restore the 100 mph wind capacity for the structure.	CONST		3.000					3.000	
			OTHER							0.000	
			TOTAL	0.000	3.000	0.000	0.000	0.000	0.000	3.000	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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Project I.D.	Project Type	Project Title/Description	Phase	2011	2012	2013	2014	2015	2016	TOTAL	Remarks
				Program Years							
S0001	Investigation	**BA2011-RE-101: 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: RVWB, KRB & BMB	INSP	0.390	0.260	0.410	0.275	0.430	0.445	1.820	Other - Biennial Inspection support, Authority personnel and equipment, UB 60 & UB 30.
			NYSBA	0.070	0.074	0.078	0.081	0.085	0.085	0.403	
			TOTAL	0.460	0.334	0.488	0.356	0.515	0.530	2.223	
S0002 2007	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		0.100					0.100	
			OTHER							0.000	
			TOTAL	0.000	0.100	0.000	0.000	0.000	0.000	0.100	
S0003	Extra Maintenance	**BA20XX-RE-102: In-House Capital Projects** In-House construction activities	CONST	1.400	1.400	1.000	1.000	1.000	1.000	5.400	
			ENGR	0.250	0.250	0.250	0.250	0.250	0.250	1.250	
			TOTAL	1.650	1.650	1.250	1.250	1.250	1.250	6.650	
S0004	Extra Maintenance	**BA2010-RE-101: Capital Maintenance Projects** Standby readiness contract for urgent bridge and highway repairs.	CONST	0.155	0.150	0.150	0.150	0.150	0.150	0.750	
			OTHER							0.000	
			TOTAL	0.155	0.150	0.150	0.150	0.150	0.150	0.750	
S0005 2008	Preventive Maintenance	**Systemwide, River Pier Base Repairs** Masonry pier pointing, concrete repairs and rip-rap placement as recommended from underwater and visual inspections.	CONST			1.250				1.250	RVWB - $0.250 KRB - $0.250 MHB - $0.250 NBB - $0.500
			OTHER							0.000	
			TOTAL	0.000	0.000	1.250	0.000	0.000	0.000	1.250	

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Project I.D.	Project Type	Project Title/Description	Phase	2011	2012	2013	2014	2015	2016	TOTAL	Remarks
				Program Years							
S0006 2008	Preventive Maintenance	**Systemwide, Substructure Repairs (Land Piers)** Partial depth concrete repairs and sealing	CONST			1.000				1.000	BMB - $0.250 MHB - $0.250 KRB - $0.500
			OTHER							0.000	
			TOTAL	0.000	0.000	1.000	0.000	0.000	0.000	1.000	
S0007	Equipment	**Systemwide, Equipment Purchases** Acquisition of major extraordinary vehicles and equipment necessary to operate and maintain the bridge system.	CONST							0.000	2011 - Equip. purchase deleted, -$500K 3/23/11
			OTHER	0.000	0.500	0.500	0.500	0.500	0.500	2.500	
			TOTAL	0.000	0.500	0.500	0.500	0.500	0.500	2.500	
S0008 2010	Preventive Maintenance	**BA2010-RE-104: Highway Pavement Repairs** Roadway and Parking lot repairs at Newburgh-Beacon, Mid-Hudson, Kingston-Rhinecliff and Rip Van Winkle *Project combined with B0001 as single project, see B0001 for total project cost $677K*	CONST	0.126						0.000	
			OTHER							0.000	
			TOTAL	0.126	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	

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IT - Dept.

Project I.D.	Project Type	Project Title/Description		2011	2012	2013	2014	2015	2016	TOTAL	Remarks
					Program Years						
SI-0001	IT	BA2010-RO-006-IT.1 Systemwide - Office Equipment Purchases, Copier, Printers, plotter, ID card system	TOTAL	0.030	0.008	0.010	0.010	0.010	0.010	0.048	
SI-0002	IT	BA2010-RO-006-IT.1 Systemwide - PC Upgrade (System Hardware)	TOTAL	0.030	0.030	0.030	0.030	0.030	0.030	0.150	
SI-0003	IT	Mid-Hudson - Necklace Lights	TOTAL	0.125	0.010	0.010	0.010	0.010	0.010	0.050	
SI-0004	IT	Systemwide - Gasboy (Fuel Dispensing Upgrade)	TOTAL	0.000	0.010	0.010	0.010	0.010	0.010	0.050	
SI-0005	IT	BA2010-RO-006-IT.1 Systemwide - Card Access	TOTAL		0.020	0.020	0.020	0.020	0.013	0.093	
SI-0006	IT	BA2010-RE-110-AC Mid-Hudson - Command Center, ITS Equip.	TOTAL	0.330	**0.010**	0.010	0.010	0.010	0.010	0.050	
SI-0007	IT	BA2010-RO-006-IT.1 Lane Use Signals, Replacement	TOTAL	0.010	0.015	0.017	0.020	0.022	0.022	0.096	
SI-0008	IT	BA2010-RO-006-IT.1 Cameras (New replacements)	TOTAL	0.045	0.055	0.100	0.100	0.100	0.075	0.430	
SI-0010	IT	BA2010-RO-006-IT.1 ITS Components - Multiplexer, modems, cabinet	TOTAL	0.010	0.010	0.010	0.010	0.010	0.010	0.050	
SI-0011	IT	BA2010-RO-006-IT.1 UPS (Un-interruptible Power System) - Batteries	TOTAL	0.050	0.010	0.010	0.010	0.100	0.010	0.140	
SI-0012	IT	BA2010-RO-006-IT.3 Suicide Call Boxes - 2011 Upgrade \ Replacement	TOTAL	0.123	0.005	0.005	0.005	0.010	0.010	0.035	
SI-0013	IT	BA2010-RO-006-IT.2 Windows File server(s) and Web Filter	TOTAL	0.035	0.015	0.060	0.035	0.015	0.015	0.140	
SI-0014	IT	BA2010-RO-001-ES ITS Consultant for Electronic Data Processing	TOTAL	0.125	0.125	0.125	0.125	0.125	0.100	0.600	
SI-0015	IT	Data Cabling	TOTAL	0.020	0.020	0.020	0.020	0.020	0.020	0.100	
SI-0016	IT	BA2010-RO-006-IT.5 Toll System Enhancements - Open road tolling (ORT), All electronic tolling (AET) - Design & Programming	TOTAL	0.000	0.135	0.135	0.135	0.135	0.125	0.665	2012 ORT or EZ Pass readers & antennas $0.200 re-assigned to SO-002, 3/23/11

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IT - Dept.

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SI-0017	IT	**BA2010-RO-006-IT.4** **Phone system upgrade**	TOTAL	0.051		0.025	0.025	0.050		0.100	2010-BM & MH; 2013-RVW; 2014-KR; 2015-NB
SI-0018	IT	**BA2010-RO-013-HS.1; BA2010-RO-013-HS.2** **Systemwide - Security Systems & Cameras** **Sys. Integration from software - construction install**	TOTAL	2.500	NB/MH **0.100**	RVW 0.100	NB 0.750	0.100		1.050	
SI-0019	IT	**Contract Design - Civil Engineering**	TOTAL				0.050			0.050	
SI-0020	IT	**Security Gates**	TOTAL	0.020	0.020	0.020	0.020	0.020	0.010	0.090	
SI-0021	IT	**US Dept. Of Homeland Security Grant, $3.45 mil**	TOTAL							0.000	
SI-0022	IT	**Dark Fiber Installation**	TOTAL	0.170						0.000	
SI-0023	IT	**Firewall/Virtual Private Network (VPN)**	TOTAL	0.010	0.010	0.020	0.020	0.020	0.020	0.090	
SI-0024	IT	**Lane Touch Screen Replacement**	TOTAL	0.045						0.000	

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Administration & Operations

Project I.D.	Project Type	Project Title/Description	Item	2011	Program Years 2012	2013	2014	2015	2016	TOTAL	Remarks
SA-001	Admin	**Systemwide - Equipment Purchases, Administration**	(1)	0.020	0.020	0.020	0.020	0.020	0.025	0.105	
		1) Equipment purchases (furniture, etc.)								0.000	
			TOTAL	0.020	0.020	0.020	0.020	0.020	0.025	0.105	
SA-002	Admin	**Systemwide - Business Application Enhancement**		0.150	0.025	0.025	0.025	0.025	0.025	0.125	
										0.000	
			TOTAL	0.150	0.025	0.025	0.025	0.025	0.025	0.125	
SO-001	ADM / OPS	**Systemwide - E-Z PASS**	(1)			0.500				0.500	
		1) Hardware, Possible MARK IV change in 2013 Note: Tag Purchases through Operating Budget	(2)		0.250					0.250	
		2) Cash-less Tolling Feasibility Study in 2012 AET (All Electronic Tolls)	TOTAL	0.000	0.250	0.500	0.000	0.000	0.000	0.750	
SO-002	ADM / OPS	**Systemwide - Pilot Program, All Electronic Tolling**	CONST							0.000	
		2011 - "Pilot Program", A.T.P.M. collection midnight shift at Bear Mtn., Kingston-Rhinecliff and Rip Van Winkle	PILOT	0.500						0.000	
			TOTAL	0.500	0.000	0.000	0.000	0.000	0.000	0.000	
SO-003 2009	ADM / OPS	**Systemwide - All Electronic Tolling (AET)** 2009 - Conversion to AET with electronic tolling hardware and plaza modifications, eliminate toll plaza, 2014	CONST				4.000		1.750	5.750	
			OTHER							0.000	
SO-004 2011		2011- Toll system upgrade, 2016	TOTAL	0.000	0.000	0.000	4.000	0.000	1.750	5.750	