Chapter VI. Capital Program

This chapter provides information on the capital program for the Proposed Fiscal Year 2012 annual budget. It focuses on the Capital Improvement Program (CIP) for FY2011 to FY2017.

Metro is investing $5 billion over six years in more than 122 projects to advance safety and state of good repair needs on the system. The first priority of the program is completing National Transportation Safety Board (NTSB) recommendations, as well as improvements proposed by the Federal Transit Administration and independent assessors.

The FY2012 program of work includes vital state of good repair projects, including the rehabilitation of aging infrastructure and rolling stock modernization. The Capital Improvement Program invests $851 million in FY2012 to ensure safety and improve reliability, including:

- Installing 30 turnouts, 15,000 direct fixation fasteners, and 8,000 cross ties
- Retrofitting 2,700 feet of track floating slabs
- Rehabilitating 5,000 feet of track pads and shock absorbers
- Rehabilitating 5 miles of third rail
- Rehabilitating 10 miles of running rail
- Installing 50,000 tracks fasteners and anchor bolts
- Track circuit replacements
- Rehabilitating 12 Metro stations
- Replacement of 100 Metro buses and rehabilitation of 100 more

Through FY2017, Metro plans to invest almost $1 billion in recommendations made by the NTSB, including replacement of the 1000 Series railcars, replacement of track circuits, replacement of power cables, design, operational, and maintenance controls to address potential Automatic Train Control (ATC) system failures, cable insulation testing, and removing the unnecessary Metrorail wayside maintenance communication system in order to eliminate its potential for interfering with the proper functioning of the train control system.

CAPITAL PROGRAM

The Capital Program includes the Capital Improvement Program (CIP), Reimbursable Projects Program, American Recovery and Reinvestment Act Program (ARRA), and the Safety and Security Program. For information only purposes the ARRA and Safety and Security Program are shown in Appendix A.

Capital Improvement Program

The $5 billion Capital Improvement Program (CIP) is a six-year base program derived from on the 10-year $11.4 billion Capital Needs Inventory (CNI) prioritization results, committed project funding, and other policy considerations. The six year base program that was derived from the CNI was the FY2011-2016 CIP. The goal of this CIP, as with the previous one, is to provide safe, reliable, and clean service.

The Capital Funding Agreement (CFA) that established the base CIP also allows for a six year rolling capital program. The six year CIP that was developed for FY2012-2017 presented here represents $5.1 billion in planned expenditures.

The Capital Improvement Program (CIP) is the fundable, executable CNI program. The CIP provides a blue print of annually planned work and associated cost.

The CIP addresses Metro’s physical asset requirements. The CIP has adopted the CNI categories structure. The nine CIP categories are (1) Vehicles/Vehicle Parts, (2) Rail System Infrastructure Rehabilitation, (3) Maintenance Facilities, (4) Systems and Technology, (5) Track and Structure, (6) Passenger Facilities, (7) Maintenance Equipment, (8) Other Facilities and (9) Project Management and Support.

Funds to support the CIP come from three primary sources: Federal appropriations, state and local contributions, and long and short-term borrowing. Federal appropriations include two Federal Transit Administration formula grants and dedicated Federal funds. The dedicated federal funds were approved under the Passenger Rail Investment and Improvement Act (PRIIA) of 2008 (P.L. 110-432, sometimes known as the "dedicated funding bill"). It authorized $1.5 billion over ten years for Metro's capital and preventive maintenance projects, to be matched dollar-for-dollar by the Metro Compact jurisdictions. The Appropriations Act placed certain conditions on the use of those funds, requiring that Metro place the highest priority on "investments that will improve the safety of the system, including but not limited to fixing the track signal system, replacing the 1000 series rail cars, installing guarded turnouts, buying equipment for wayside worker protection, and installing rollback protection on cars that are not equipped with this safety feature.”

Reimbursable Projects

The reimbursable Project Development Program funds planning studies for new transit services for high priority corridors, station access and capacity improvements, and pre-development

planning in support of joint development in the District of Columbia, Maryland, and Virginia. Each jurisdiction contributes to the $3.0 million funding level and approves the program priorities.

Summary of the Financial Plan

The Financial Plan for the Capital Improvement Program is built on the following assumptions:

- Federal Formula Grants assumes a 0% annual growth rate in FY2012 and 2013 and between 2.5% and 3.5% thereafter, through FY2017. The CFA assumed a 4%-5% growth rate between FY2011 and 2016. This reduced growth forecast was implemented in anticipation of reduced Federal transportation funding expectations for transportation.
- Federal Dedicated Funds assumes $150.0 million from the federal government and $150.0 million from state and local contributors.
- System Performance Funds (previously called Local Additional Funds) were assumed to be capped at $107.6 million each year in the Capital Funding Agreement put into effect in June 2010. Given the downward revision in federal funding growth rate assumption and consequently local match, system performance funds were increased to make up for the loss of the match amount, such that the total State and Local contribution (match + system performance) in any given year of the CIP, remains consistent with the agreed levels in the Capital Funding Agreement.
- State and Local Contributions for formula grants and local additional were estimated by grouping projects into bus, rail, bus/rail, and access categories and distributing the cost based on the FY2010 operating subsidy allocation.
- Miscellaneous CIP Funding is the anticipated proceeds from the sale of real estate.
- Metro Matters Roll Over is funding rolled over from the Metro Matters period (FY2005-2010) into the Capital Funding Agreement period.
- Metro Matters Residual Funding, as a result of the Metro Matters reconciliation concluded in the second quarter of FY2011, an additional $43 million of Metro Matters residual funding was made available for the current CIP.
- FY2011 CIP Rollover represents $89.7 million in unexpended FY2011 CIP funds. The funds are anticipated to be fully spent in FY2012.
- Debt assumes the issuance of a 25-year, tax-exempt, gross transit revenue bond. Total debt between FY2011 and FY2016 remains within the $440 million established in the CFA period. An additional $91 million in debt is planned in FY2017.

Jurisdiction's Allocated Contribution

Each Contributing Jurisdiction's Allocated Contribution is based on the approved Annual Work Plan, which is an expenditure-based plan, and any subsequent adjustments derived from the Annual Budget Reconciliation Process. The Contributing Jurisdictions are billed each quarter based on an expenditure forecast by quarter according to the Annual Work Plan.

It is projected that Metro will under-spend the FY2011 budget by $89.7 million, and those expenditures will be made in FY2012. As a result, the jurisdictional contributions were lowered for FY2011, and will increase in FY2012 per the Annual Work Plan.

Per the Capital Funding Agreement (CFA), jurisdictional contributions will be adjusted again in Fall 2012 according to actual and projected capital expenditures.

Development of the Capital Needs Inventory (CNI)

The ten year Capital Needs Inventory (FY2011 – FY2020) was developed based on accounting for life-cycle costs, current conditions, and future demand. This agency-wide, "bottom-up" inventory was designed to produce a comprehensive picture of Metro's future capital needs. The over $11 billion, ten year Capital Needs Inventory (CNI) was prioritized based on agency goals and strategic objectives and presented to the Board on October 8, 2009.

Subsequently, the prioritized ten-year Capital Needs Inventory effort was used to create a constrained $5 billion six-year Capital Improvement Program (FY2011 – FY2016) that addresses Metro’s most critical capital funding needs. Indeed, the Capital Improvement Program as a whole reflects a higher portion of “state of good performance” projects than the Capital Needs Inventory.

Budget Authority for FY2012

To provide the most up-to-date information on the Capital Program, this document includes the proposed budget for FY2012 of $854.1 million with $851.1 million for CIP (including $14.4 million of Metro Matters Rollover and $89.7 million of FY2011 CIP Rollover) and $3.0 million for reimbursable projects. The FY2011 forecast and proposed FY 2012 budget, along with forecasted expenditures for FY2013 through FY2017, provides a complete overview of the Capital Improvement Program.

Table 6.1

Capital Improvement Program (CIP) Costs: FY2011-2017

(dollars in millions)	FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
A Vehicles/ Vehicle Parts									
Replacement of Rail Cars	$79.902	$20.022	$11.753	$12.428	$118.079	$404.503	**$646.686**	$284.517	**$931.203**
Replacement of Buses	82.693	69.310	56.307	62.170	80.347	80.878	**431.705**	126.000	**557.705**
Rehabilitation of Rail Cars	72.640	56.242	43.411	42.477	42.512	43.750	**301.031**	44.122	**345.153**
Rehabilitation of Buses	54.831	48.499	54.380	53.966	58.360	60.163	**330.200**	62.680	**392.880**
Replacement of MetroAccess Vehicles	11.559	11.559	12.202	10.247	8.571	10.846	**64.984**	14.669	**79.652**
Replacement of Service Vehicles	2.122	5.529	7.964	8.968	7.937	5.718	**38.237**	8.330	**46.567**
Rail Car Fleet Expansion	6.724	2.761	1.042	2.541	0.000	0.000	**13.068**	0.000	**13.068**
Bus Fleet Expansion	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**0.000**
Bus Enhancements	6.805	4.330	30.460	3.001	0.000	0.000	**44.596**	0.000	**44.596**
Subtotal	$317.275	$218.252	$217.517	$195.796	$315.806	$605.859	**$1,870.506**	$540.318	**$2,410.824**
B Rail System Infrastructure Rehabilitation									
Rail Line Segment Rehabilitation	$88.267	$117.363	$121.427	$195.904	$167.157	$168.963	**$859.081**	$68.183	**$927.264**
Subtotal	$88.267	$117.363	$121.427	$195.904	$167.157	$168.963	**$859.081**	$68.183	**$927.264**
C Maintenance Facilities									
Rehabilitation and Replacement of Bus Garages	$27.155	$91.733	$114.657	$24.156	$0.000	$0.000	**$257.701**	$0.000	**$257.701**
Maintenance of Bus Garages	18.982	25.947	30.845	32.237	19.800	17.250	**145.060**	0.000	**145.060**
Maintenance of Rail Yards	0.297	1.499	29.777	29.777	45.748	28.798	**135.895**	28.691	**164.585**
Rail Maintenance Facilities	1.900	3.000	40.000	40.000	1.474	0.000	**86.374**	0.000	**86.374**
Environmental Compliance Projects	2.695	5.131	3.222	3.159	1.775	3.746	**19.728**	5.056	**24.784**
Maintenance Bus and Rail Facilities	8.059	12.474	8.346	3.166	3.161	3.161	**38.366**	7.968	**46.334**
Expansion of Bus Garages	2.671	8.754	7.258	9.431	0.000	0.000	**$28.113**	0.000	**$28.113**
Subtotal	$61.758	$148.539	$234.104	$141.925	$71.957	$52.955	**$711.237**	$41.714	**$752.952**
D Systems and Technology									
Power System Upgrades - Rail	$4.132	$0.000	$6.986	$7.980	$6.791	$7.258	**$33.147**	$7.258	**$40.405**
Operations Support Software	35.160	32.380	34.857	36.655	35.388	33.260	**$207.700**	32.908	**$240.607**
Business Support Software & Equipment	29.370	30.252	20.108	15.712	10.812	11.480	**$117.734**	6.900	**$124.634**
Rail Fare Equipment	14.720	5.115	1.923	1.924	1.923	1.728	**$27.334**	1.368	**$28.702**
Subtotal	$83.382	$67.747	$63.874	$62.271	$54.914	$53.725	**$385.914**	$48.434	**$434.347**
E Track and Structures									
Track Rehabilitation	$64.842	$57.860	$52.693	$47.147	$49.161	$53.747	**$325.449**	$56.587	**$382.036**
Station/Tunnel Rehabilitation	3.058	3.298	3.277	3.452	3.607	3.761	**$20.452**	4.952	**$25.404**
Subtotal	$67.900	$61.158	$55.969	$50.598	$52.767	$57.508	**$345.901**	$61.540	**$407.440**
F Passenger Facilities									
Elevator/Escalator Facilities	$12.150	$18.367	$18.804	$19.883	$20.324	$16.726	**$106.253**	$17.600	**$123.853**
Maintenance of Rail Station Facilities	58.804	58.345	32.643	13.662	8.153	8.358	**$179.965**	8.488	**$188.453**
Bicycle & Pedestrian Facilities	1.392	1.438	1.741	1.656	1.668	1.684	**$9.580**	1.696	**$11.276**
Rail Station: Capacity/Enhancements	0.509	3.027	1.030	1.033	1.542	1.028	**$8.169**	23.000	**$31.169**
Bus Priority Corridor Improvements	6.133	2.053	2.059	2.066	2.056	0.000	**$14.368**	6.168	**$20.536**
Rail Station Equipment	0.887	0.197	0.200	0.203	0.206	0.274	**$1.967**	0.210	**$2.177**
Subtotal	$79.875	$83.427	$56.477	$38.503	$33.950	$28.070	**$320.302**	$57.162	**$377.464**
G Maintenance Equipment									
Rail Maintenance Equipment	$36.727	$136.733	$143.259	$63.763	$31.384	$31.022	**$442.888**	$23.714	**$466.602**
Bus Repair Equipment	2.945	7.176	3.015	3.125	3.213	3.380	**$22.855**	3.549	**$26.404**
Business Facilities Equipment	0.764	0.905	0.745	0.771	0.919	0.818	**$4.921**	0.824	**$5.745**
Subtotal	$40.437	$144.814	$147.019	$67.659	$35.517	$35.220	**$470.664**	$28.087	**$498.751**
H Other Facilities									
Business Support Facilities	$8.055	$0.266	$0.221	$0.507	$0.409	$0.264	**$9.722**	$0.398	**$10.120**
MTPD Support Facilities	2.127	4.150	21.352	0.885	0.000	0.000	**$28.514**	0.000	**$28.514**
Subtotal	$10.182	$4.416	$21.573	$1.392	$0.409	$0.264	**$38.236**	$0.398	**$38.634**
I Project Management and Support									
Credit Facility	4.900	5.390	6.000	6.610	6.500	6.500	**$35.900**	7.000	**$42.900**
Subtotal	$4.900	$5.390	$6.000	$6.610	$6.500	$6.500	**$35.900**	$7.000	**$42.900**
Total	$753.977	$851.106	$923.960	$760.658	$738.977	$1,009.064	**$5,037.742**	$852.837	**$5,890.578**

Table 6.2

Capital Improvement Program (CIP) Source of Funds: FY2011-2017

(dollars in millions)

	FY2011 Forecast	FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
► **Federal Funds:**									
Federal Formula Grant Funds:									
› Section 5307 Grant	$139.365	$139.365	$139.365	$142.849	$147.849	$153.024	**$861.817**	$158.379	**$1,020.196**
› Section 5309 Grant	101.266	101.266	101.266	103.798	107.431	111.191	**626.217**	115.082	**741.299**
Subtotal - Formula Grants	$240.631	$240.631	$240.631	$246.647	$255.279	$264.214	**$1,488.033**	$273.462	**$1,761.495**
Federal Dedicated Funds	150.000	150.000	150.000	150.000	150.000	150.000	**900.000**	150.000	**1,050.000**
CMAQ Grant	-	7.400	-	-	-	-	**7.400**	-	**7.400**
Subtotal: Federal Funds	$390.631	$398.031	$390.631	$396.647	$405.279	$414.214	**$2,395.433**	$423.462	**$2,818.895**
► **State and Local Funds:**									
Match to Federal Formula Grant	$60.158	$60.158	$60.158	$61.662	$63.820	$66.054	**$372.008**	$68.365	**$440.374**
Local Additional Funds	107.755	110.169	112.680	114.440	115.709	117.073	**677.828**	118.541	**796.368**
Match to Federal Dedicated Fun	150.000	150.000	150.000	150.000	150.000	150.000	**900.000**	150.000	**1,050.000**
Subtotal: State and Local Funds	$317.913	$320.327	$322.838	$326.102	$329.529	$333.127	**$1,949.836**	$336.906	**$2,286.742**
► **Other CIP Funding Sources**									
Metro Matters Rollover	$131.801	$14.381	$1.402	$1.872	$0.000	$0.000	**$149.455**	$0.000	**$149.455**
Metro Matters Residual Funding	-	18.270	24.730	-	-	-	**43.000**	-	**43.000**
Miscellaneous	3.351	10.379	33.623	17.565	-	-	**64.917**	1.000	**65.917**
FY2011 CIP Rollover	(89.719)	89.719	-	-	-	-	**-**	-	**-**
Subtotal: Other Funds	$45.433	$132.748	$59.755	$19.437	$0.000	$0.000	**$257.373**	$1.000	**$258.373**
Total without Debt	$753.977	$851.106	$773.224	$742.186	$734.808	$747.341	**$4,602.642**	$761.368	**$5,364.010**
► Debt Strategy	$0.000	$0.000	$150.736	$18.473	$4.169	$261.723	**$435.100**	$91.469	**$526.569**
Grand Total	$753.977	$851.106	$923.960	$760.658	$738.977	$1,009.064	**$5,037.742**	$852.837	**$5,890.578**

Table 6.3

Reimbursable Capital Costs: FY 2012

(dollars in million)

All Jurisdictions	FY 2012
Project Development	$ 3.000

Table 6.4

Source of Funds for Reimbursable Capital Cost: FY 2012

(dollars in million)

All Jurisdictions	FY 2012
District of Columbia	$ 1.099
Maryland	$ 1.076
Virginia	$ 0.825
Total	$ 3.000

Table 6.5
CNI comparison to the FY2011-2017 CIP
(dollars in millions)

	Capital Needs Inventory	FY2011-2017 CIP	Variance
A Vehicles/ Vehicle Parts			
Replacement of Rail Cars	$978.182	$931.203	($46.979)
Replacement of Buses	749.483	557.705	(191.778)
Rehabilitation of Rail Cars	311.694	345.153	33.459
Rehabilitation of Buses	356.818	392.880	36.062
Replacement of MetroAccess Vehicles	140.975	79.652	(61.323)
Replacement of Service Vehicles	63.390	46.567	(16.823)
Rail Car Fleet Expansion	605.128	13.068	(592.060)
Bus Fleet Expansion	255.449	0.000	(255.449)
Bus Enhancements	115.694	44.596	(71.098)
MetroAccess Fleet Expansion	44.165	0.000	(44.165)
Subtotal	$3,620.978	$2,410.824	($1,210.154)
B Rail System Infrastructure Rehabilitation			
Rail Line Segment Rehabilitation	$1,822.193	$927.264	($894.929)
Subtotal	$1,822.193	$927.264	($894.929)
C Maintenance Facilities			
Rehabilitation and Replacement of Bus Garages	$488.640	$257.701	($230.939)
Maintenance of Bus Garages	328.077	145.060	(183.017)
Maintenance of Rail Yards	280.678	164.585	(116.093)
Rail Maintenance Facilities	655.880	86.374	(569.506)
Environmental Compliance Projects	36.754	24.784	(11.970)
Maintenance Bus and Rail Facilities	0.000	46.334	46.334
Expansion of Bus Garages	444.852	28.113	(416.739)
Expansion of MetroAccess Garages	16.000	0.000	(16.000)
Subtotal	$2,250.881	$752.952	($1,497.929)
D Systems and Technology			
Power System Upgrades - Rail	$175.026	$40.405	($134.621)
Operations Support Software	559.847	240.607	(319.240)
Business Support Software & Equipment	296.188	124.634	(171.554)
Rail Fare Equipment	56.459	28.702	(27.757)
Subtotal	$1,087.520	$434.347	($653.172)
E Track and Structures			
Track Rehabilitation	$539.340	$382.036	($157.304)
Station/Tunnel Rehabilitation	46.033	25.404	(20.629)
Subtotal	$585.373	$407.440	($177.933)
F Passenger Facilities			
Elevator/Escalator Facilities	$267.805	$123.853	($143.952)
Maintenance of Rail Station Facilities	133.890	188.453	54.563
Bicycle & Pedestrian Facilities	44.872	11.276	(33.596)
Rail Station: Capacity/Enhancements	1,150.378	31.169	(1,119.209)
Bus Priority Corridor Improvements	120.449	20.536	(99.913)
Rail Station Equipment	21.571	2.177	(19.394)
Subtotal	$1,738.965	$377.464	($1,361.501)
G Maintenance Equipment			
Rail Maintenance Equipment	$203.743	$466.602	$262.859
Bus Repair Equipment	29.088	26.404	(2.684)
Business Facilities Equipment	7.710	5.745	(1.965)
Subtotal	$240.541	$498.751	$258.210
H Other Facilities			
Business Support Facilities	$32.204	$10.120	($22.084)
MTPD Support Facilities	44.443	28.514	(15.929)
MetroAccess Operations Facility	8.000	0.000	(8.000)
Subtotal	$84.647	$38.634	($46.013)
I Program Management			
Program Management	$0.000	$0.000	$0.000
Credit Facility	0.000	42.900	42.900
Subtotal	$0.000	$42.900	$42.900
Total	$11,431.098	$5,890.578	($5,540.520)

Table 6.6
Capital Improvement Program (CIP) Costs: FY2011-2017
(dollars in millions)

		FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
A Vehicles/ Vehicle Parts										
Replacement of Rail Cars										
CIP 057	1000 Series Rail Car Replacement	$79.902	$20.022	$11.753	$8.353	$98.115	$277.130	**$495.274**	$205.802	**$701.076**
CIP 060	4000 Series Rail Car Replacement	0.000	0.000	0.000	4.075	19.964	127.373	**151.412**	78.716	**$230.127**
Subtotal		$79.902	$20.022	$11.753	$12.428	$118.079	$404.503	**$646.686**	$284.517	**$931.203**
Replacement of Buses										
CIP 006	Bus Replacement	$82.693	$69.310	$56.307	$62.170	$80.347	$80.878	**$431.705**	$126.000	**$557.705**
Subtotal		$82.693	$69.310	$56.307	$62.170	$80.347	$80.878	**$431.705**	$126.000	**$557.705**
Rehabilitation of Rail Cars										
CIP 064	1000 Series Rail Car HVAC Rehabilitation	$2.465	$2.152	$0.190	$0.000	$0.000	$0.000	**$4.807**	$0.000	**$4.807**
CIP 058	2000/3000 Series Rail Car Mid-Life Rehabilitation	5.054	3.031	1.153	0.000	0.000	0.000	**9.238**	0.000	**9.238**
CIP 067	Rail Car Safety & Reliability Enhancements	12.335	8.737	1.502	1.653	1.699	1.755	**27.681**	1.802	**29.483**
CIP 063	Rail Rehabilitation Program	11.925	21.522	19.703	19.892	19.981	21.164	**114.187**	21.489	**135.676**
CIP 125	Rail Preventive Maintenance	20.861	0.000	0.000	0.000	0.000	0.000	**20.861**	0.000	**20.861**
CIP 142	Rail Lifecycle Overhaul	20.000	20.800	20.864	20.932	20.831	20.831	**124.258**	20.831	**145.089**
Subtotal		$72.640	$56.242	$43.411	$42.477	$42.512	$43.750	**$301.031**	$44.122	**$345.153**
Rehabilitation of Buses										
CIP 005	Bus Rehabilitation Program	$24.449	$30.081	$30.862	$31.672	$32.251	$33.005	**$182.321**	$34.700	**$217.021**
CIP 008	Bus Repairables	8.912	7.703	12.770	11.511	15.378	16.427	**72.701**	17.249	**89.950**
CIP 137	Bus Preventive Maintenance	11.471	0.000	0.000	0.000	0.000	0.000	**11.471**	0.000	**11.471**
CIP 143	Bus Lifecycle Overhaul	10.000	10.715	10.748	10.783	10.731	10.731	**63.708**	10.731	**74.439**
Subtotal		$54.831	$48.499	$54.380	$53.966	$58.360	$60.163	**$330.200**	$62.680	**$392.880**
Replacement of MetroAccess Vehicles										
CIP 015	MetroAccess Fleet Replacement	$11.559	$11.559	$12.202	$10.247	$8.571	$10.846	**$64.984**	$14.669	**$79.652**
Subtotal		$11.559	$11.559	$12.202	$10.247	$8.571	$10.846	**$64.984**	$14.669	**$79.652**
Replacement of Service Vehicles										
CIP 009	Service Vehicle Replacement	$2.122	$5.529	$7.964	$8.968	$7.937	$5.718	**$38.237**	$8.330	**$46.567**
Subtotal		$2.122	$5.529	$7.964	$8.968	$7.937	$5.718	**$38.237**	$8.330	**$46.567**
Rail Car Fleet Expansion										
CIP 062	6000 Series Rail Car Procurement	$6.724	$2.761	$1.042	$2.541	$0.000	$0.000	**$13.068**	$0.000	**$13.068**
Subtotal		$6.724	$2.761	$1.042	$2.541	$0.000	$0.000	**$13.068**	$0.000	**$13.068**
Bus Fleet Expansion										
CIP 003	Bus Capacity Enhancements: Fleet Expansion	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	**$0.000**	$0.000	**$0.000**
Subtotal		$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	**$0.000**	$0.000	**$0.000**
Bus Enhancements										
CIP 002	Automatic Vehicle Location Equipment Replacement	4.231	4.330	30.460	0.000	0.000	0.000	**39.021**	0.000	**39.021**
CIP 007	Bus Camera Installation	2.574	0.000	0.000	3.001	0.000	0.000	**5.575**	0.000	**5.575**
Subtotal		$6.805	$4.330	$30.460	$3.001	$0.000	$0.000	**$44.596**	$0.000	**$44.596**
Subtotal		$317.275	$218.252	$217.517	$195.796	$315.806	$605.859	**$1,870.506**	$540.318	**$2,410.824**

Table 6.6
Capital Improvement Program (CIP) Costs: FY2011-2017 (continued)
(dollars in millions)

		FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
B Rail System Infrastructure Rehabilitation										
Rail Line Segment Rehabilitation										
CIP 108	Rail Rehabilitation Tier 1: Dupont to Grosvenor	$0.000	$0.000	$4.010	$58.213	$82.039	$86.978	**$231.240**	$68.183	**$299.423**
CIP 107	Rail Rehabilitation Tier 1: Dupont to Silver Spring	63.739	65.480	57.549	38.905	0.000	0.000	**225.673**	0.000	**$225.673**
CIP 110	Rail Rehabilitation Tier 1: National Airport to Stadium Armory	24.528	51.883	59.868	98.786	85.118	81.985	**402.168**	0.000	**$402.168**
Subtotal		$88.267	$117.363	$121.427	$195.904	$167.157	$168.963	**$859.081**	$68.183	**$927.264**
Subtotal		$88.267	$117.363	$121.427	$195.904	$167.157	$168.963	**$859.081**	$68.183	**$927.264**
C Maintenance Facilities										
Rehabilitation and Replacement of Bus Garages										
CIP 085	Royal Street Bus Garage Replacement (Cinder Bed Road)	$16.595	$31.768	$47.979	$2.436	$0.000	$0.000	**$98.779**	$0.000	**$98.779**
CIP 086	Southeastern Bus Garage Replacement (DC Village)	0.027	30.719	14.918	0.000	0.000	0.000	**45.664**	0.000	**$45.664**
CIP 084	Southern Avenue Bus Garage Replacement	10.533	29.246	51.759	21.720	0.000	0.000	**113.258**	0.000	**$113.258**
Subtotal		$27.155	$91.733	$114.657	$24.156	$0.000	$0.000	**$257.701**	$0.000	**$257.701**
Maintenance of Bus Garages										
CIP 119	Bus Garage Facility Repairs Tier 1: Western, Northern and Landover	$18.982	$25.947	$30.845	$32.237	$19.800	$17.250	**$145.060**	$0.000	**$145.060**
Subtotal		18.982	25.947	30.845	32.237	19.800	17.250	**145.060**	0.000	**145.060**
Maintenance of Rail Yards										
CIP 116	Rail Yard Facility Repairs Tier 1: Alexandria, Brentwood and New Carrollton	$0.297	$1.499	$29.777	$29.777	$45.748	$28.798	**$135.895**	$28.691	**$164.585**
Subtotal		$0.297	$1.499	$29.777	$29.777	$45.748	$28.798	**$135.895**	$28.691	**$164.585**
Rail Maintenance Facilities										
CIP 071	Test Track & Commissioning Facility	$1.900	$3.000	$40.000	$40.000	$1.474	$0.000	**$86.374**	$0.000	**$86.374**
Subtotal		$1.900	$3.000	$40.000	$40.000	$1.474	$0.000	**$86.374**	$0.000	**$86.374**
Environmental Compliance Projects										
CIP 010	Environmental Compliance Projects	$0.626	$0.655	$0.692	$0.734	$0.770	$0.812	**$4.289**	$0.812	**$5.101**
CIP 011	Underground Storage Tank Replacement	2.069	4.476	2.530	2.426	1.005	2.934	**15.439**	4.244	**19.683**
Subtotal		$2.695	$5.131	$3.222	$3.159	$1.775	$3.746	**$19.728**	$5.056	**$24.784**
Maintenance Bus and Rail Facilities										
CIP 127	Support Equipment - MTPD	$1.725	$1.030	$1.060	$1.067	$1.063	$1.062	**$7.006**	$1.080	**$8.086**
CIP 145	Rail Yard Hardening and Bus Security (NEW)	3.000	10.379	5.188	0.000	0.000	0.000	**18.566**	0.000	**18.566**
CIP 126	Financial Planning, Project Administration, and System Wide Infrastructure Upgrades	3.334	1.065	2.099	2.099	2.099	2.099	**12.794**	6.888	**19.682**
Subtotal		$8.059	$12.474	$8.346	$3.166	$3.161	$3.161	**$38.366**	$7.968	**$46.334**
Expansion of Bus Garages										
CIP 078	Bladensburg Shop Reconfiguration	$2.660	$6.549	$7.258	$9.431	$0.000	$0.000	**$25.897**	$0.000	**$25.897**
CIP 038	Bus Garage Capacity Enhancements	0.010	2.206	0.000	0.000	0.000	0.000	**2.216**	0.000	**$2.216**
Subtotal		$2.671	$8.754	$7.258	$9.431	$0.000	$0.000	**$28.113**	$0.000	**$28.113**
Subtotal		$61.758	$148.539	$234.104	$141.925	$71.957	$52.955	**$711.237**	$41.714	**$752.952**

Table 6.6
Capital Improvement Program (CIP) Costs: FY2011-2017 (continued)
(dollars in millions)

		FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
D Systems and Technology										
Power System Upgrades - Rail										
CIP 077	8-Car Train Power Upgrades	$4.132	$0.000	$0.000	$0.000	$0.000	$0.000	**$4.132**	$0.000	**$4.132**
CIP 076	100 % 8-Car Train - Power Upgrades	0.000	0.000	6.986	7.980	6.791	7.258	**29.015**	7.258	**$36.273**
Subtotal		$4.132	$0.000	$6.986	$7.980	$6.791	$7.258	**$33.147**	$7.258	**$40.405**
Operations Support Software										
CIP 042	Bus & Rail Asset Management Software	$1.603	$4.185	$5.800	$3.600	$5.700	$4.900	**$25.787**	$3.815	**$29.602**
CIP 043	Bus Operations Support Software	1.993	2.771	3.000	3.400	3.500	3.000	**17.665**	3.084	**$20.749**
CIP 144	Bus Operations Control Center	1.604	0.000	0.000	0.000	0.000	0.000	**1.604**	0.000	**$1.604**
CIP 044	Customer & Regional Integration	9.565	4.771	3.776	4.821	4.797	4.797	**32.527**	4.797	**$37.324**
CIP 045	Data Centers and Infrastructures	8.392	5.502	3.400	6.300	5.200	4.400	**33.194**	6.700	**$39.894**
CIP 047	Enterprise Geographic Information System	1.947	2.949	2.574	2.713	3.598	2.570	**16.352**	2.655	**$19.007**
CIP 052	Network and Communications	3.640	5.003	6.200	4.565	5.100	6.100	**30.609**	4.200	**$34.809**
CIP 053	Network Operations Center (NOC)	1.879	2.532	2.287	3.252	2.352	2.352	**14.654**	2.487	**$17.141**
CIP 051	Police Dispatch and Records Management	0.000	0.000	0.000	0.995	0.000	0.000	**0.995**	0.000	**$0.995**
CIP 140	Rail Mileage Based Asset Management	2.379	2.176	2.671	1.343	0.000	0.000	**8.569**	0.000	**$8.569**
CIP 056	Rail Operations Support Software	2.157	2.492	5.149	5.665	5.141	5.140	**25.744**	5.170	**$30.914**
Subtotal		$35.160	$32.380	$34.857	$36.655	$35.388	$33.260	**$207.700**	$32.908	**$240.607**
Business Support Software & Equipment										
CIP 030	Currency Processing Machines	$0.647	$1.456	$0.799	$0.000	$0.000	$0.000	**$2.902**	$0.000	**$2.902**
CIP 054	Customer Electronic Communications & Outreach	2.543	3.114	2.800	2.222	2.000	2.000	**14.679**	2.000	**$16.679**
CIP 046	Document Management System	1.549	1.465	2.000	3.135	2.600	2.600	**13.349**	2.000	**$15.349**
CIP 049	Management Support Software	13.003	16.721	4.000	4.000	0.000	0.000	**37.723**	0.000	**$37.723**
CIP 050	Metro IT OneStop and Office Automation	4.502	3.213	5.082	2.100	2.100	2.100	**19.095**	2.100	**$21.195**
CIP 103	Police Portable Radio Replacement	0.655	0.667	0.669	0.000	0.000	0.668	**2.659**	0.800	**$3.459**
CIP 048	Sensitive Data Protection Technology	6.121	3.616	4.758	4.255	4.112	4.112	**26.976**	0.000	**$26.976**
CIP 147	FBI National Electronic Countermeasures Program	0.351	0.000	0.000	0.000	0.000	0.000	**0.351**	0.000	**$0.351**
Subtotal		$29.370	$30.252	$20.108	$15.712	$10.812	$11.480	**$117.734**	$6.900	**$124.634**
Rail Fare Equipment										
CIP 091	Automatic Fare Collection Machines	$0.000	$1.075	$1.111	$1.111	$1.111	$1.111	**$5.518**	$1.111	**$6.629**
CIP 031	Debit/Credit Processing Requirements	1.911	0.257	0.257	0.258	0.257	0.257	**3.197**	0.257	**$3.454**
CIP 092	Ethernet Wiring for Rail Fare Machines	1.343	0.000	0.000	0.000	0.000	0.000	**1.343**	0.000	**$1.343**
CIP 032	Fare Media Encoders	1.014	0.579	0.000	0.000	0.000	0.000	**1.593**	0.000	**$1.593**
CIP 094	Improvements to Coin Collection Machines	2.281	0.000	0.000	0.000	0.000	0.000	**2.281**	0.000	**$2.281**
CIP 093	Integrating regional NEXTFARE System	6.625	0.955	0.195	0.195	0.195	0.000	**8.165**	0.000	**$8.165**
CIP 097	Open Bankcard and Automatic Fare Collection Systems	1.546	2.250	0.360	0.360	0.360	0.360	**5.236**	0.000	**$5.236**
Subtotal		$14.720	$5.115	$1.923	$1.924	$1.923	$1.728	**$27.334**	$1.368	**$28.702**
Subtotal		$83.382	$67.747	$63.874	$62.271	$54.914	$53.725	**$385.914**	$48.434	**$434.347**

Table 6.6
Capital Improvement Program (CIP) Costs: FY2011-2017 (continued)
(dollars in millions)

		FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
E Track and Structures										
Track Rehabilitation										
CIP 023	Third Rail Rehabilitation	$0.000	$5.517	$4.184	$4.408	$4.606	$4.835	**$23.550**	$4.939	**$28.489**
CIP 089	Track Fasteners	2.066	2.053	2.059	2.066	2.056	2.056	**12.357**	2.700	**$15.057**
CIP 019	Track Floating Slab Rehabilitation	1.633	1.410	1.319	1.555	1.616	1.689	**9.222**	1.717	**$10.939**
CIP 021	Track Pad/Shock Absorber Rehabilitation	2.274	4.097	2.155	2.271	2.419	2.491	**15.707**	2.544	**$18.252**
CIP 024	Track Rehabilitation	47.673	34.519	37.223	31.919	33.369	37.239	**221.941**	39.040	**$260.981**
CIP 022	Track Structural Rehabilitation	2.318	2.277	2.890	1.840	1.787	1.876	**12.988**	1.917	**$14.905**
CIP 141	Cheverly Abutment	7.407	0.000	0.000	0.000	0.000	0.000	**7.407**	0.000	**$7.407**
CIP 018	Track Welding Program	0.470	2.656	2.863	3.089	3.307	3.560	**15.945**	3.730	**$19.675**
CIP 146	Mainline No. 8 Switch Replacement Program (NEW)	1.000	5.331	0.000	0.000	0.000	0.000	**6.331**	0.000	**$6.331**
Subtotal		$64.842	$57.860	$52.693	$47.147	$49.161	$53.747	**$325.449**	$56.587	**$382.036**
Station/Tunnel Rehabilitation										
CIP 026	Station/Tunnel Leak Mitigation	$3.058	$3.298	$3.277	$3.452	$3.607	$3.761	**$20.452**	$4.952	**$25.404**
Subtotal		$3.058	$3.298	$3.277	$3.452	$3.607	$3.761	**$20.452**	$4.952	**$25.404**
Subtotal		$67.900	$61.158	$55.969	$50.598	$52.767	$57.508	**$345.901**	$61.540	**$407.440**
F Passenger Facilities										
Elevator/Escalator Facilities										
CIP 072	Elevator Rehabilitation	$2.358	$3.490	$2.265	$1.136	$1.645	$2.159	**$13.054**	$2.200	**$15.254**
CIP 132	Elevator/Escalator Repairables	3.277	4.825	4.800	4.800	4.800	4.800	**27.302**	4.800	**$32.102**
CIP 073	Escalator Rehabilitation	6.516	10.051	11.738	13.946	13.879	9.767	**65.898**	10.600	**$76.498**
Subtotal		$12.150	$18.367	$18.804	$19.883	$20.324	$16.726	**$106.253**	$17.600	**$123.853**
Maintenance of Rail Station Facilities										
CIP 138	System-wide Infrastructure Rehabilitation	$50.218	$50.513	$24.684	$5.573	$0.000	$0.000	**$130.987**	$0.000	**$130.987**
CIP 087	Station Rehabilitation Program	8.586	7.832	7.960	8.089	8.153	8.358	**48.978**	8.488	**$57.466**
Subtotal		$58.804	$58.345	$32.643	$13.662	$8.153	$8.358	**$179.965**	$8.488	**$188.453**
Bicycle & Pedestrian Facilities										
CIP 035	Bicycle & Pedestrian Facilities: Capacity Improvements	$0.983	$1.019	$1.220	$1.220	$1.220	$1.220	**$6.882**	$1.220	**$8.102**
CIP 036	Replacement of Bicycle Racks & Lockers	0.410	0.419	0.521	0.436	0.448	0.464	**2.698**	0.476	**$3.174**
Subtotal		$1.392	$1.438	$1.741	$1.656	$1.668	$1.684	**$9.580**	$1.696	**$11.276**
Rail Station: Capacity/Enhancements										
CIP 039	Core & System Capacity Project Development	$0.509	$3.027	$1.030	$1.033	$1.542	$1.028	**$8.169**	$0.000	**$8.169**
CIP 074	Installation of Parking Lot Credit Card Readers	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 088	Station Entrance Canopies	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	23.000	**$23.000**
Subtotal		$0.509	$3.027	$1.030	$1.033	$1.542	$1.028	**$8.169**	$23.000	**$31.169**
Bus Priority Corridor Improvements										
CIP 037	Bus Priority Corridor Network Enhancements	$6.133	$2.053	$2.059	$2.066	$2.056	$0.000	**$14.368**	$6.168	**$20.536**
Subtotal		$6.133	$2.053	$2.059	$2.066	$2.056	$0.000	**$14.368**	$6.168	**$20.536**
Rail Station Equipment										
CIP 099	Police Emergency Management Equipment	$0.887	$0.197	$0.200	$0.203	$0.206	$0.274	**$1.967**	$0.210	**$2.177**
Subtotal		$0.887	$0.197	$0.200	$0.203	$0.206	$0.274	**$1.967**	$0.210	**$2.177**
Subtotal		$79.875	$83.427	$56.477	$38.503	$33.950	$28.070	**$320.302**	$57.162	**$377.464**

Table 6.6
Capital Improvement Program (CIP) Costs: FY2011-2017 (continued)
(dollars in millions)

	FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
G Maintenance Equipment									
Rail Maintenance Equipment									
CIP 136 FCC Radio Frequency Communication Changes	$0.251	$1.772	$10.602	$9.298	$0.000	$0.000	**$21.923**	$0.000	**$21.923**
CIP 065 Geometry Vehicle	1.834	8.928	2.643	0.486	0.000	0.000	**13.892**	0.000	**$13.892**
CIP 139-0 Replace GRS Track Circuits	5.599	15.901	24.177	12.923	1.400	0.000	**59.999**	0.000	**$59.999**
CIP 139-0 Inspec Procedure-Track Circuit	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 139-0 Tech Bulletin & Safety Info	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 139-0 Remove Unnecessary Wayside Com	2.001	4.515	3.909	0.000	0.000	0.000	**10.425**	0.000	**$10.425**
CIP 139-1 NTSB ATC System Safety Anlysis	1.750	3.501	1.750	0.000	0.000	0.000	**7.001**	0.000	**$7.001**
CIP 139-1 Dsgn/Oper/Maint Poten. Failure	0.000	17.513	43.783	8.757	0.000	0.000	**70.053**	0.000	**$70.053**
CIP 139-1 Cable Insulation Testing	5.212	7.816	4.560	0.000	0.000	0.000	**17.588**	0.000	**$17.588**
CIP 139-1 FTA Recommendation: TOC Audit	0.000	0.163	0.063	0.163	0.000	0.000	**0.389**	0.000	**$0.389**
CIP 139-1 Periodic Compreh Data Review	0.073	0.098	0.098	0.024	0.000	0.000	**0.293**	0.000	**$0.293**
CIP 139-1 Safety Reporting Prog & Review	0.098	0.130	0.130	0.033	0.000	0.000	**0.391**	0.000	**$0.391**
CIP 139-1 Hazard Identification & Resolu	0.122	0.163	0.163	0.041	0.000	0.000	**0.489**	0.000	**$0.489**
CIP 139-1 Audit and Open CAPs	0.073	0.098	0.098	0.024	0.000	0.000	**0.293**	0.000	**$0.293**
CIP 139-1 Onboard Event Recorders 1K/4K	3.258	5.214	3.257	0.000	0.000	0.000	**11.729**	0.000	**$11.729**
CIP 139-2 Program to Monitor Recorders	0.782	0.651	0.000	0.000	0.000	0.000	**1.433**	0.000	**$1.433**
CIP 139-P Examine Track Circuits	0.000	2.606	7.818	0.000	0.000	0.000	**10.424**	0.000	**$10.424**
CIP 139-P Elec Compo Peforming in TC Sys	0.349	2.256	1.303	0.000	0.000	0.000	**3.908**	0.000	**$3.908**
CIP 139-P Redundancy of ATC	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 139-P Loss of Shunt Tools	1.003	0.499	0.000	0.000	0.000	0.000	**1.503**	0.000	**$1.503**
CIP 139-P Enhanced Track Circuit Verifi	0.500	3.409	0.000	0.000	0.000	0.000	**3.909**	0.000	**$3.909**
CIP 139-P Replace power cables	5.213	10.426	10.424	10.424	10.423	10.423	**57.333**	5.212	**$62.545**
CIP 066 Rail Shop Repair Equipment	2.169	4.209	4.222	4.236	4.215	4.215	**23.265**	2.980	**$26.246**
CIP 020 Replacement of Rail Track Signage	0.984	1.060	1.117	1.177	1.250	1.235	**6.823**	1.341	**$8.164**
CIP 027 Switch Machine Rehabilitation Project	0.899	0.950	1.001	1.054	1.101	1.157	**6.161**	1.181	**$7.342**
CIP 025 Track Maintenance Equipment	1.242	34.683	12.840	10.475	10.425	12.964	**82.629**	13.000	**$95.629**
CIP 135 Train Control Signal	1.031	5.347	4.153	2.583	1.028	1.028	**15.170**	0.000	**$15.170**
CIP 133 Wayside Work Equipment	2.285	4.825	5.149	2.066	1.542	0.000	**15.866**	0.000	**$15.866**
Subtotal	$36.727	$136.733	$143.259	$63.763	$31.384	$31.022	**$442.888**	$23.714	**$466.602**
Bus Repair Equipment									
CIP 004 Bus Repair Equipment	$2.945	$7.176	$3.015	$3.125	$3.213	$3.380	**$22.855**	$3.549	**$26.404**
Subtotal	$2.945	$7.176	$3.015	$3.125	$3.213	$3.380	**$22.855**	$3.549	**$26.404**
Business Facilities Equipment									
CIP 028 Materials Handling Equipment	$0.158	$0.139	$0.144	$0.149	$0.153	$0.158	**$0.901**	$0.159	**$1.060**
CIP 029 Warehouse Vertical Storage Units/Shelving	0.606	0.766	0.600	0.622	0.766	0.660	**4.020**	0.665	**$4.685**
Subtotal	$0.764	$0.905	$0.745	$0.771	$0.919	$0.818	**$4.921**	$0.824	**$5.745**
Subtotal	$40.437	$144.814	$147.019	$67.659	$35.517	$35.220	**$470.664**	$28.087	**$498.751**

Table 6.6
Capital Improvement Program (CIP) Costs: FY2011-2017 (continued)
(dollars in millions)

	FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
H Other Facilities									
Business Support Facilities									
CIP 080 Jackson Graham Building Renovation	7.399	0.000	0.000	0.000	0.000	0.000	**7.399**	0.000	**$7.399**
CIP 033 Replacement of Revenue Facility Equipment	0.656	0.266	0.221	0.507	0.409	0.264	**2.323**	0.398	**$2.721**
CIP 034 Revenue Collection Facility (RCF) Building Expansion	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
Subtotal	$8.055	$0.266	$0.221	$0.507	$0.409	$0.264	**$9.722**	$0.398	**$10.120**
MTPD Support Facilities									
CIP 101 Police Substation- New District 2/Special Operations Division Facility	$1.296	$2.524	$13.014	$0.544	$0.000	$0.000	**$17.378**	$0.000	**$17.378**
CIP 106 Special Operations Division Facility	0.831	1.626	8.338	0.341	0.000	0.000	**11.136**	0.000	**$11.136**
Subtotal	$2.127	$4.150	$21.352	$0.885	$0.000	$0.000	**$28.514**	$0.000	**$28.514**
Subtotal	$10.182	$4.416	$21.573	$1.392	$0.409	$0.264	**$38.236**	$0.398	**$38.634**
I Project Management and Support									
Credit Facility									
CIP 131 Credit Facility	$4.900	$5.390	$6.000	$6.610	$6.500	$6.500	**$35.900**	$7.000	**$42.900**
Subtotal	$4.900	$5.390	$6.000	$6.610	$6.500	$6.500	**$35.900**	$7.000	**$42.900**
Subtotal	$4.900	$5.390	$6.000	$6.610	$6.500	$6.500	**$35.900**	$7.000	**$42.900**
Total	$753.977	$851.106	$923.960	$760.658	$738.977	$1,009.064	**$5,037.742**	$852.837	**$5,890.578**

Table 6.7
Capital Improvement Program (CIP) Costs: FY2011-2017
(dollars in millions)

Project ID	Project Description	FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
CIP 002	Automatic Vehicle Location Equipment Replacement	$4.231	$4.330	$30.460	$0.000	$0.000	$0.000	**$39.021**	$0.000	**$39.021**
CIP 003	Bus Capacity Enhancements: Fleet Expansion	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 004	Bus Repair Equipment	2.945	7.176	3.015	3.125	3.213	3.380	**22.855**	3.549	**$26.404**
CIP 005	Bus Rehabilitation Program	24.449	30.081	30.862	31.672	32.251	33.005	**182.321**	34.700	**$217.021**
CIP 006	Bus Replacement	82.693	69.310	56.307	62.170	80.347	80.878	**431.705**	126.000	**$557.705**
CIP 007	Bus Camera Installation	2.574	0.000	0.000	3.001	0.000	0.000	**5.575**	0.000	**$5.575**
CIP 008	Bus Repairables	8.912	7.703	12.770	11.511	15.378	16.427	**72.701**	17.249	**$89.950**
CIP 009	Service Vehicle Replacement	2.122	5.529	7.964	8.968	7.937	5.718	**38.237**	8.330	**$46.567**
CIP 010	Environmental Compliance Projects	0.626	0.655	0.692	0.734	0.770	0.812	**4.289**	0.812	**$5.101**
CIP 011	Underground Storage Tank Replacement	2.069	4.476	2.530	2.426	1.005	2.934	**15.439**	4.244	**$19.683**
CIP 015	MetroAccess Fleet Replacement	11.559	11.559	12.202	10.247	8.571	10.846	**64.984**	14.669	**$79.652**
CIP 018	Track Welding Program	0.470	2.656	2.863	3.089	3.307	3.560	**15.945**	3.730	**$19.675**
CIP 019	Track Floating Slab Rehabilitation	1.633	1.410	1.319	1.555	1.616	1.689	**9.222**	1.717	**$10.939**
CIP 020	Replacement of Rail Track Signage	0.984	1.060	1.117	1.177	1.250	1.235	**6.823**	1.341	**$8.164**
CIP 021	Track Pad/Shock Absorber Rehabilitation	2.274	4.097	2.155	2.271	2.419	2.491	**15.707**	2.544	**$18.252**
CIP 022	Track Structural Rehabilitation	2.318	2.277	2.890	1.840	1.787	1.876	**12.988**	1.917	**$14.905**
CIP 023	Third Rail Rehabilitation	0.000	5.517	4.184	4.408	4.606	4.835	**23.550**	4.939	**$28.489**
CIP 024	Track Rehabilitation	47.673	34.519	37.223	31.919	33.369	37.239	**221.941**	39.040	**$260.981**
CIP 025	Track Maintenance Equipment	1.242	34.683	12.840	10.475	10.425	12.964	**82.629**	13.000	**$95.629**
CIP 026	Station/Tunnel Leak Mitigation	3.058	3.298	3.277	3.452	3.607	3.761	**20.452**	4.952	**$25.404**
CIP 027	Switch Machine Rehabilitation Project	0.899	0.950	1.001	1.054	1.101	1.157	**6.161**	1.181	**$7.342**
CIP 028	Materials Handling Equipment	0.158	0.139	0.144	0.149	0.153	0.158	**0.901**	0.159	**$1.060**
CIP 029	Warehouse Vertical Storage Units/Shelving	0.606	0.766	0.600	0.622	0.766	0.660	**4.020**	0.665	**$4.685**
CIP 030	Currency Processing Machines	0.647	1.456	0.799	0.000	0.000	0.000	**2.902**	0.000	**$2.902**
CIP 031	Debit/Credit Processing Requirements	1.911	0.257	0.257	0.258	0.257	0.257	**3.197**	0.257	**$3.454**
CIP 032	Fare Media Encoders	1.014	0.579	0.000	0.000	0.000	0.000	**1.593**	0.000	**$1.593**
CIP 033	Replacement of Revenue Facility Equipment	0.656	0.266	0.221	0.507	0.409	0.264	**2.323**	0.398	**$2.721**
CIP 034	Revenue Collection Facility (RCF) Building Expansion	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 035	Bicycle & Pedestrian Facilities: Capacity Improvements	0.983	1.019	1.220	1.220	1.220	1.220	**6.882**	1.220	**$8.102**
CIP 036	Replacement of Bicycle Racks & Lockers	0.410	0.419	0.521	0.436	0.448	0.464	**2.698**	0.476	**$3.174**
CIP 037	Bus Priority Corridor Network Enhancements	6.133	2.053	2.059	2.066	2.056	0.000	**14.368**	6.168	**$20.536**
CIP 038	Bus Garage Capacity Enhancements	0.010	2.206	0.000	0.000	0.000	0.000	**2.216**	0.000	**$2.216**
CIP 039	Core & System Capacity Project Development	0.509	3.027	1.030	1.033	1.542	1.028	**8.169**	0.000	**$8.169**
CIP 042	Bus & Rail Asset Management Software	1.603	4.185	5.800	3.600	5.700	4.900	**25.787**	3.815	**$29.602**
CIP 043	Bus Operations Support Software	1.993	2.771	3.000	3.400	3.500	3.000	**17.665**	3.084	**$20.749**
CIP 044	Customer & Regional Integration	9.565	4.771	3.776	4.821	4.797	4.797	**32.527**	4.797	**$37.324**
CIP 045	Data Centers and Infrastructures	8.392	5.502	3.400	6.300	5.200	4.400	**33.194**	6.700	**$39.894**
CIP 046	Document Management System	1.549	1.465	2.000	3.135	2.600	2.600	**13.349**	2.000	**$15.349**
CIP 047	Enterprise Geographic Information System	1.947	2.949	2.574	2.713	3.598	2.570	**16.352**	2.655	**$19.007**
CIP 048	Sensitive Data Protection Technology	6.121	3.616	4.758	4.255	4.112	4.112	**26.976**	0.000	**$26.976**
CIP 049	Management Support Software	13.003	16.721	4.000	4.000	0.000	0.000	**37.723**	0.000	**$37.723**
CIP 050	Metro IT OneStop and Office Automation	4.502	3.213	5.082	2.100	2.100	2.100	**19.095**	2.100	**$21.195**
CIP 051	Police Dispatch and Records Management	0.000	0.000	0.000	0.995	0.000	0.000	**0.995**	0.000	**$0.995**
CIP 052	Network and Communications	3.640	5.003	6.200	4.565	5.100	6.100	**30.609**	4.200	**$34.809**
CIP 053	Network Operations Center (NOC)	1.879	2.532	2.287	3.252	2.352	2.352	**14.654**	2.487	**$17.141**
CIP 054	Customer Electronic Communications & Outreach	2.543	3.114	2.800	2.222	2.000	2.000	**14.679**	2.000	**$16.679**
CIP 056	Rail Operations Support Software	2.157	2.492	5.149	5.665	5.141	5.140	**25.744**	5.170	**$30.914**
CIP 057	1000 Series Rail Car Replacement	79.902	20.022	11.753	8.353	98.115	277.130	**495.274**	205.802	**$701.076**
CIP 058	2000/3000 Series Rail Car Mid-Life Rehabilitation	5.054	3.031	1.153	0.000	0.000	0.000	**9.238**	0.000	**$9.238**
CIP 060	4000 Series Rail Car Replacement	0.000	0.000	0.000	4.075	19.964	127.373	**151.412**	78.716	**$230.127**
CIP 062	6000 Series Rail Car Procurement	6.724	2.761	1.042	2.541	0.000	0.000	**13.068**	0.000	**$13.068**
CIP 063	Rail Rehabilitation Program	11.925	21.522	19.703	19.892	19.981	21.164	**114.187**	21.489	**$135.676**

Table 6.7
Capital Improvement Program (CIP) Costs: FY2011-2017 (continued)
(dollars in millions)

Project ID	Project Description	FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
CIP 064	1000 Series Rail Car HVAC Rehabilitation	$2.465	$2.152	$0.190	$0.000	$0.000	$0.000	**$4.807**	$0.000	**$4.807**
CIP 065	Geometry Vehicle	1.834	8.928	2.643	0.486	0.000	0.000	**13.892**	0.000	**$13.892**
CIP 066	Rail Shop Repair Equipment	2.169	4.209	4.222	4.236	4.215	4.215	**23.265**	2.980	**$26.246**
CIP 067	Rail Car Safety & Reliability Enhancements	12.335	8.737	1.502	1.653	1.699	1.755	**27.681**	1.802	**$29.483**
CIP 071	Test Track & Commissioning Facility	1.900	3.000	40.000	40.000	1.474	0.000	**86.374**	0.000	**$86.374**
CIP 072	Elevator Rehabilitation	2.358	3.490	2.265	1.136	1.645	2.159	**13.054**	2.200	**$15.254**
CIP 073	Escalator Rehabilitation	6.516	10.051	11.738	13.946	13.879	9.767	**65.898**	10.600	**$76.498**
CIP 074	Installation of Parking Lot Credit Card Readers	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 076	100 % 8-Car Train - Power Upgrades	0.000	0.000	6.986	7.980	6.791	7.258	**29.015**	7.258	**$36.273**
CIP 077	8-Car Train Power Upgrades	4.132	0.000	0.000	0.000	0.000	0.000	**4.132**	0.000	**$4.132**
CIP 078	Bladensburg Shop Reconfiguration	2.660	6.549	7.258	9.431	0.000	0.000	**25.897**	0.000	**$25.897**
CIP 080	Jackson Graham Building Renovation	7.399	0.000	0.000	0.000	0.000	0.000	**7.399**	0.000	**$7.399**
CIP 084	Southern Avenue Bus Garage Replacement	10.533	29.246	51.759	21.720	0.000	0.000	**113.258**	0.000	**$113.258**
CIP 085	Royal Street Bus Garage Replacement (Cinder Bed Road)	16.595	31.768	47.979	2.436	0.000	0.000	**98.779**	0.000	**$98.779**
CIP 086	Southeastern Bus Garage Replacement (DC Village)	0.027	30.719	14.918	0.000	0.000	0.000	**45.664**	0.000	**$45.664**
CIP 087	Station Rehabilitation Program	8.586	7.832	7.960	8.089	8.153	8.358	**48.978**	8.488	**$57.466**
CIP 088	Station Entrance Canopies	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	23.000	**$23.000**
CIP 089	Track Fasteners	2.066	2.053	2.059	2.066	2.056	2.056	**12.357**	2.700	**$15.057**
CIP 091	Automatic Fare Collection Machines	0.000	1.075	1.111	1.111	1.111	1.111	**5.518**	1.111	**$6.629**
CIP 092	Ethernet Wiring for Rail Fare Machines	1.343	0.000	0.000	0.000	0.000	0.000	**1.343**	0.000	**$1.343**
CIP 093	Integrating regional NEXTFARE System	6.625	0.955	0.195	0.195	0.195	0.000	**8.165**	0.000	**$8.165**
CIP 094	Improvements to Coin Collection Machines	2.281	0.000	0.000	0.000	0.000	0.000	**2.281**	0.000	**$2.281**
CIP 097	Open Bankcard and Automatic Fare Collection Systems	1.546	2.250	0.360	0.360	0.360	0.360	**5.236**	0.000	**$5.236**
CIP 099	Police Emergency Management Equipment	0.887	0.197	0.200	0.203	0.206	0.274	**1.967**	0.210	**$2.177**
CIP 101	Police Substation- New District 2/Special Operations Division Facility	1.296	2.524	13.014	0.544	0.000	0.000	**17.378**	0.000	**$17.378**
CIP 103	Police Portable Radio Replacement	0.655	0.667	0.669	0.000	0.000	0.668	**2.659**	0.800	**$3.459**
CIP 106	Special Operations Division Facility	0.831	1.626	8.338	0.341	0.000	0.000	**11.136**	0.000	**$11.136**
CIP 107	Rail Rehabilitation Tier 1: Dupont to Silver Spring	63.739	65.480	57.549	38.905	0.000	0.000	**225.673**	0.000	**$225.673**
CIP 108	Rail Rehabilitation Tier 1: Dupont to Grosvenor	0.000	0.000	4.010	58.213	82.039	86.978	**231.240**	68.183	**$299.423**
CIP 110	Rail Rehabilitation Tier 1: National Airport to Stadium Armory	24.528	51.883	59.868	98.786	85.118	81.985	**402.168**	0.000	**$402.168**
CIP 116	Rail Yard Facility Repairs Tier 1: Alexandria, Brentwood and New Carrollton	0.297	1.499	29.777	29.777	45.748	28.798	**135.895**	28.691	**$164.585**
CIP 119	Bus Garage Facility Repairs Tier 1: Western, Northern and Landover	18.982	25.947	30.845	32.237	19.800	17.250	**145.060**	0.000	**$145.060**
CIP 125	Rail Preventive Maintenance	20.861	0.000	0.000	0.000	0.000	0.000	**20.861**	0.000	**$20.861**
CIP 126	Financial Planning, Project Administration, and System Wide Infrastructure Upgrades	3.334	1.065	2.099	2.099	2.099	2.099	**12.794**	6.888	**$19.682**
CIP 127	Support Equipment - MTPD	1.725	1.030	1.060	1.067	1.063	1.062	**7.006**	1.080	**$8.086**
CIP 131	Credit Facility	4.900	5.390	6.000	6.610	6.500	6.500	**35.900**	7.000	**$42.900**
CIP 132	Elevator/Escalator Repairables	3.277	4.825	4.800	4.800	4.800	4.800	**27.302**	4.800	**$32.102**
CIP 133	Wayside Work Equipment	2.285	4.825	5.149	2.066	1.542	0.000	**15.866**	0.000	**$15.866**
CIP 135	Train Control Signal	1.031	5.347	4.153	2.583	1.028	1.028	**15.170**	0.000	**$15.170**
CIP 136	FCC Radio Frequency Communication Changes	0.251	1.772	10.602	9.298	0.000	0.000	**21.923**	0.000	**$21.923**
CIP 137	Bus Preventive Maintenance	11.471	0.000	0.000	0.000	0.000	0.000	**11.471**	0.000	**$11.471**
CIP 138	System-wide Infrastructure Rehabilitation	50.218	50.513	24.684	5.573	0.000	0.000	**130.987**	0.000	**$130.987**
CIP 139-06	Replace GRS Track Circuits	5.599	15.901	24.177	12.923	1.400	0.000	**59.999**	0.000	**$59.999**
CIP 139-07	Inspec Procedure-Track Circuit	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 139-08	Tech Bulletin & Safety Info	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 139-09	Remove Unnecessary Wayside Com	2.001	4.515	3.909	0.000	0.000	0.000	**10.425**	0.000	**$10.425**
CIP 139-10	NTSB ATC System Safety Anlysis	1.750	3.501	1.750	0.000	0.000	0.000	**7.001**	0.000	**$7.001**
CIP 139-11	Dsgn/Oper/Maint Poten. Failure	0.000	17.513	43.783	8.757	0.000	0.000	**70.053**	0.000	**$70.053**
CIP 139-12	Cable Insulation Testing	5.212	7.816	4.560	0.000	0.000	0.000	**17.588**	0.000	**$17.588**
CIP 139-13	FTA Recommendation: TOC Audit	0.000	0.163	0.063	0.163	0.000	0.000	**0.389**	0.000	**$0.389**
CIP 139-14	Periodic Compreh Data Review	0.073	0.098	0.098	0.024	0.000	0.000	**0.293**	0.000	**$0.293**

Table 6.7
Capital Improvement Program (CIP) Costs: FY2011-2017 (continued)
(dollars in millions)

Project ID	Project Description	FY2011 Forecast	Annual Work Plan Year: FY2012 Budget	FY2013 Forecast	FY2014 Forecast	FY2015 Forecast	FY2016 Forecast	**Total FY2011-16**	FY2017 Forecast	**Total FY2011-17**
CIP 139-15	Safety Reporting Prog & Review	$0.098	$0.130	$0.130	$0.033	$0.000	$0.000	**$0.391**	$0.000	**$0.391**
CIP 139-16	Hazard Identification & Resolu	0.122	0.163	0.163	0.041	0.000	0.000	**0.489**	0.000	**$0.489**
CIP 139-17	Audit and Open CAPs	0.073	0.098	0.098	0.024	0.000	0.000	**0.293**	0.000	**$0.293**
CIP 139-19	Onboard Event Recorders 1K/4K	3.258	5.214	3.257	0.000	0.000	0.000	**11.729**	0.000	**$11.729**
CIP 139-20	Program to Monitor Recorders	0.782	0.651	0.000	0.000	0.000	0.000	**1.433**	0.000	**$1.433**
CIP 139-P1	Examine Track Circuits	0.000	2.606	7.818	0.000	0.000	0.000	**10.424**	0.000	**$10.424**
CIP 139-P2	Elec Compo Peforming in TC Sys	0.349	2.256	1.303	0.000	0.000	0.000	**3.908**	0.000	**$3.908**
CIP 139-P3	Redundancy of ATC	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	**$0.000**
CIP 139-P4	Loss of Shunt Tools	1.003	0.499	0.000	0.000	0.000	0.000	**1.503**	0.000	**$1.503**
CIP 139-P5	Enhanced Track Circuit Verifi	0.500	3.409	0.000	0.000	0.000	0.000	**3.909**	0.000	**$3.909**
CIP 139-P6	Replace power cables	5.213	10.426	10.424	10.424	10.423	10.423	**57.333**	5.212	**$62.545**
CIP 140	Rail Mileage Based Asset Management	2.379	2.176	2.671	1.343	0.000	0.000	**8.569**	0.000	**$8.569**
CIP 141	Cheverly Abutment	7.407	0.000	0.000	0.000	0.000	0.000	**7.407**	0.000	**$7.407**
CIP 142	Rail Lifecycle Overhaul	20.000	20.800	20.864	20.932	20.831	20.831	**124.258**	20.831	**$145.089**
CIP 143	Bus Lifecycle Overhaul	10.000	10.715	10.748	10.783	10.731	10.731	**63.708**	10.731	**$74.439**
CIP 144	Bus Operations Control Center	1.604	0.000	0.000	0.000	0.000	0.000	**1.604**	0.000	**$1.604**
CIP 145	Rail Yard Hardening and Bus Security (NEW)	3.000	10.379	5.188	0.000	0.000	0.000	**18.566**	0.000	**$18.566**
CIP 146	Mainline No. 8 Switch Replacement Program (NEW)	1.000	5.331	0.000	0.000	0.000	0.000	**6.331**	0.000	**$6.331**
CIP 147	FBI National Electronic Countermeasures Program	0.351	0.000	0.000	0.000	0.000	0.000	**0.351**	0.000	**$0.351**
Total		$753.977	$851.106	$923.960	$760.658	$738.977	$1,009.064	**$5,037.742**	$852.837	**$5,890.578**

Table 6.8

Quarterly Jurisdictional Funding Breakdown - FY2011 and FY2012

All Dollars in Thousands

Line	Jurisdictional Funding	*Actual* FY2011 Q1	*Actual* FY2011 Q2	*Actual* FY2011 Q3	*Projected* FY2011 Q4	FY 2011 Total	FY2012 Q1	FY2012 Q2	FY2012 Q3	FY2012 Q4	FY 2012 Total	FY 2011-12 Total
	District of Columbia											
1	District of Columbia	$ 15,743	$ 15,743	$ 7,271	$ 9,330	$ 48,088	$ 15,991	$ 18,452	$ 22,369	$ 22,248	$ 79,060	**$127,148**
2	District of Columbia - PRIIA Match	12,500	12,500	8,433	10,851	44,284	12,289	11,968	14,856	16,603	55,716	**100,000**
3	**Total District of Columbia**	**$ 28,243**	**$ 28,243**	**$ 15,704**	**$ 20,181**	**$ 92,372**	**$ 28,280**	**$ 30,420**	**$ 37,225**	**$ 38,851**	**$134,776**	**$227,148**
	Maryland											
4	Montgomery County	$ 7,303	$ 7,303	$ 3,416	$ 4,249	$ 22,271	$ 7,703	$ 8,517	$ 10,220	$ 9,975	$ 36,416	**$ 58,687**
5	Prince Georges County	8,041	8,041	3,459	4,916	24,457	8,033	9,281	11,467	11,373	40,154	**64,611**
6	State of Maryland - PRIIA Match	12,500	12,500	8,433	10,851	44,284	12,289	11,968	14,856	16,603	55,716	**100,000**
7	**Total Maryland**	**$ 27,844**	**$ 27,844**	**$ 15,307**	**$ 20,016**	**$ 91,012**	**$ 28,025**	**$ 29,766**	**$ 36,543**	**$ 37,952**	**$132,286**	**$223,298**
	Virginia											
8	Alexandria	$ 1,725	$ 1,725	$ 843	$ 984	$ 5,278	$ 1,829	$ 2,035	$ 2,414	$ 2,369	$ 8,647	**$ 13,925**
9	Arlington County	3,226	3,226	1,624	1,799	9,875	3,510	3,815	4,469	4,341	16,134	**26,009**
10	City of Fairfax	109	109	53	62	333	118	128	151	147	543	**876**
11	Fairfax County	5,718	5,718	2,692	3,332	17,460	5,963	6,697	8,042	7,910	28,613	**46,073**
12	Falls Church	113	113	53	66	345	116	133	160	159	567	**912**
13	Commonwealth of Virginia - PRIIA Match	12,500	12,500	8,433	10,851	44,284	12,289	11,968	14,856	16,603	55,716	**100,000**
14	**Total Virginia**	**$ 23,391**	**$ 23,391**	**$ 13,698**	**$ 17,095**	**$ 77,574**	**$ 23,823**	**$ 24,776**	**$ 30,093**	**$ 31,529**	**$110,221**	**$187,794**
15	**Total State and Local Funds:**	**$ 79,478**	**$ 79,478**	**$ 44,709**	**$ 57,292**	**$ 260,958**	**$ 80,128**	**$ 84,962**	**$103,861**	**$108,332**	**$377,282**	**$638,240**
16	**FY2011-16 CIP Budgeted Allocation**					**$ 317,913**					**$320,327**	**$638,240**
17	***Projected Variance from FY2011-16 CIP Budget***					***$ (56,955)***					***$ 56,955***	***$ -***

Table 6.9
Jurisdictional Funding Breakdown - FY2011 to FY2017
All Dollars in Thousands

Line		*Expenditure Based Forecast*	Annual Work Plan Year							
	Projected State and Local Funding	**FY2011**	**FY2012**	**FY2013**	**FY2014**	**FY2015**	**FY2016**	**FY2011-16**	**FY2017**	**FY2011-17**
	Total State and Local Funding									
1	5307 Formula Grant Match	$ 32,469	$ 37,214	$ 34,841	$ 35,712	$ 36,962	$ 38,134	$ 215,333	$ 39,716	**$ 255,049**
2	5309 Formula Grant Match	24,539	26,094	25,317	25,949	26,858	27,798	156,554	28,771	**185,325**
3	PRIIA	132,851	167,149	150,000	137,155	142,300	170,545	900,000	150,000	**1,050,000**
4	System Performance Funds	71,099	146,826	112,680	140,129	131,110	76,591	678,436	117,933	**796,369**
5	**Total State and Local Funds:**	**$ 260,958**	**$ 377,282**	**$ 322,838**	**$ 338,947**	**$ 337,229**	**$ 313,068**	**$ 1,950,323**	**$ 336,420**	**$ 2,286,742**
	Projected Jurisdictional Funding Distribution	**FY2011**	**FY2012**	**FY2013**	**FY2014**	**FY2015**	**FY2016**	**FY2011-16**	**FY2017**	**FY2011-17**
	District of Columbia									
6	District of Columbia	$ 48,088	$ 79,060	$ 65,136	$ 72,070	$ 69,939	$ 52,284	$ 386,576	$ 67,397	**$ 453,974**
7	District of Columbia - PRIIA Match	$ 44,284	$ 55,716	$ 50,000	$ 45,718	$ 47,433	$ 56,848	$ 300,000	$ 50,000	**$ 350,000**
8	**Total District of Columbia**	**$ 92,372**	**$ 134,776**	**$ 115,136**	**$ 117,789**	**$ 117,372**	**$ 109,132**	**$ 686,576**	**$ 117,397**	**$ 803,974**
	Maryland									
9	Montgomery County	$ 22,271	$ 36,416	$ 29,682	$ 37,382	$ 35,939	$ 25,568	$ 187,258	$ 33,780	**$ 221,038**
10	Prince Georges County	24,457	40,154	34,604	38,256	36,761	26,893	201,126	37,279	**238,405**
11	State of Maryland - PRIIA Match	44,284	55,716	50,000	45,718	47,433	56,848	300,000	50,000	**350,000**
12	**Total Maryland**	**$ 91,012**	**$ 132,286**	**$ 114,286**	**$ 121,357**	**$ 120,134**	**$ 109,310**	**$ 688,384**	**$ 121,059**	**$ 809,443**
	Virginia									
13	Alexandria	$ 5,278	$ 8,647	$ 6,833	$ 8,457	$ 8,195	$ 5,959	$ 43,369	$ 7,452	**$ 50,821**
14	Arlington County	9,875	16,134	12,454	16,599	16,053	11,445	82,560	14,162	**96,721**
15	City of Fairfax	333	543	428	566	546	387	2,802	493	**3,295**
16	Fairfax County	17,460	28,613	23,239	27,941	26,992	19,611	143,855	25,376	**169,232**
17	Falls Church	345	567	462	521	506	377	2,777	480	**3,257**
18	Commonwealth of Virginia - PRIIA Match	44,284	55,716	50,000	45,718	47,433	56,848	300,000	50,000	**350,000**
19	**Total Virginia**	**$ 77,574**	**$ 110,221**	**$ 93,416**	**$ 99,801**	**$ 99,724**	**$ 94,627**	**$ 575,363**	**$ 97,963**	**$ 673,326**
20	**Total State and Local Funds:**	**$ 260,958**	**$ 377,282**	**$ 322,838**	**$ 338,947**	**$ 337,229**	**$ 313,068**	**$ 1,950,323**	**$ 336,420**	**$ 2,286,742**

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Automatic Vehicle Location Equipment Replacement
ID: CIP 002

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa	**Operating Impact:**
Managing Dept.:	BMNT	**Proj. Manager:**	Jonathan Walker	Maintenance savings of approximately $1,000,000 per year in FY13-16 based on anticipated warranty vs. current costs to maintain.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus	

Project Description:

This project will begin the replacement of Automatic Vehicle Location (AVL) equipment on buses that was installed in 2002. The equipment, which allows monitoring of bus locations, supports Next Bus, and provides computer aided dispatch information. The equipment has a life span of 7-10 year and is at the end of its useful life.

FY2012 Planned Activities:

1. Finalize testing and begin on board equipment installation 2. Complete Buss Operations Control Center Computer aided dispatch 3. Continue on board equipment installation 4. Continue on board equipment installation and backend infrastructure requirements

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 4,231	$ 4,330	$ 30,460	$ -	$ -	$ -	$ 39,021	$ -	$ 39,021
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 4,231	$ 4,330	$ 30,460	$ -	$ -	$ -	$ 39,021	$ -	$ 39,021

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Capacity Enhancements: Fleet Expansion
ID: CIP 003

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa	**Operating Impact:**
Managing Dept.:	BMNT	**Proj. Manager:**	Jim Hamre	TBD
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus	

Project Description:

This project will help Metro expand bus service and increase transit market share penetration due to expected ridership growth of 10-15% between 2010 and 2020. Plans include possible corridor growth buses for use specifically along the Bus Priority Corridors, as well as buses needed to meet the projected demand between 2011-2020.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Repair Equipment
ID: CIP 004

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa
Managing Dept.:	BMNT	**Proj. Manager:**	Darin Welt
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Bus

Operating Impact:
Replacing repair equipment will prevent future productivity loss due to broken equipment.

Project Description:
This project will replace existing bus repair equipment which is past its useful life, more affordable to replace then repair, as well as to provide new equipment needed to improve performance. This equipment is used by personnel for repair and maintenance of the bus and non-revenue fleets as well as support staff.

FY2012 Planned Activities:
Current activities replace equipment past its useful life or uneconomical to repair, and procure other needed equipment to support bus services. This same activity is repeated until funds are exhausted or Bus services needs are met.

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,703	$ 7,176	$ 3,015	$ 3,125	$ 3,213	$ 3,380	$ 22,613	$ 3,549	$ 26,162
2	Metro Matters Rollover	$ 242	$ -	$ -	$ -	$ -	$ -	$ 242	$ -	$ 242
3	**Total Project Expenditures**	$ 2,945	$ 7,176	$ 3,015	$ 3,125	$ 3,213	$ 3,380	$ 22,855	$ 3,549	$ 26,404

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Rehabilitation Program
ID: CIP 005

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa
Managing Dept.:	BMNT	**Proj. Manager:**	Phil Wallace
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus

Operating Impact:
The capital budget will subsidize these activates reducing the impact to the operating budget. The average a savings is approximately $8000 per engine and $5000 per transmission ($4,400,000 annually).

Project Description:
This project will provide components necessary to rehabilitate buses, including but not limited to, electrical and mechanical parts. Programs include the Bus rehab, Transmission Overhaul, Engine Overhaul, Electronic Rebuild, and Small Components Rebuild. will result in rehabilitation of 100 buses in FY2012 and 600 buses from FY2012-17

FY2012 Planned Activities:
TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 24,449	$ 30,081	$ 30,862	$ 31,672	$ 32,251	$ 33,005	$ 182,321	$ 34,700	$ 217,021
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 24,449	$ 30,081	$ 30,862	$ 31,672	$ 32,251	$ 33,005	$ 182,321	$ 34,700	$ 217,021

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Replacement
ID: CIP 006

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa	**Operating Impact:**
Managing Dept.:	BMNT	**Proj. Manager:**	Robert Golden	Maintenance savings is based on FY10 information that new buses placed service saved approximately $.52 per mile over the bus it replaced and based on the replacement schedule and the average miles driven of 37,000 miles
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus	

Project Description:

This project will purchase to maintain an average fleet age of 7.5 years based on the 2010 fleet size of approximately 1,500 buses that range in size from 26 to 62 feet, and are a mix of conventional and articulated buses. Will result in replacement of 100 buses in FY2012 and 600 buses from FY2012-17

FY2012 Planned Activities:

Procure and place in service 100 FY12 Bus Rapid Transit Hybrid/Electric heavy duty transit buses forty to forty two foot. This activity will continue through the Fiscal Year.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 74,227	$ 68,966	$ 56,307	$ 62,170	$ 80,347	$ 80,878	$ 422,894	$ 126,000	$ 548,894
2	Metro Matters Rollover	$ 8,466	$ 344	$ -	$ -	$ -	$ -	$ 8,810	$ -	$ 8,810
3	**Total Project Expenditures**	$ 82,693	$ 69,310	$ 56,307	$ 62,170	$ 80,347	$ 80,878	$ 431,705	$ 126,000	$ 557,705

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Camera Installation
ID: CIP 007

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa	**Operating Impact:**
Managing Dept.:	BMNT	**Proj. Manager:**	Darin Welt	Bus cameras will require maintenance calculated on current contract costs of $710 per vehicle per year.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus	

Project Description:

This project is based on completing installation on remaining buses, which will ensure that all buses will be equipped with camera systems to reduce detrimental impact of fraudulent claims, reduce or eliminate vandalism, deter crime, assist in criminal prosecutions, and help employees assist customer concerns and complaints.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 233	$ -	$ -	$ 2,201	$ -	$ -	$ 2,434	$ -	$ 2,434
2	Metro Matters Rollover	$ 2,341	$ -	$ -	$ 800	$ -	$ -	$ 3,141	$ -	$ 3,141
3	**Total Project Expenditures**	$ 2,574	$ -	$ -	$ 3,001	$ -	$ -	$ 5,575	$ -	$ 5,575

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Repairables
ID: CIP 008

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa
Managing Dept.:	BMNT	**Proj. Manager:**	Darin Welt
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus

Operating Impact:
Neutral. These parts and assemblies keep buses in service.

Project Description:
This project provides the components necessary to rehabilitate buses. The bus rehabilitation components to be purchased are needed to replace the repairable supply of replacement items such as farebox assemblies, radiator assemblies, alternators, and driver seats when the core is beyond economical repair or when the composition of the fleet changes. Bus rehabilitation components are also needed for engines and transmissions when technical changes are dictated by EPA regulations.

FY2012 Planned Activities:
Replace repairable bus components no longer repairable or past their useful life including but not limited to: alternators, transmissions, coolers, driver's seats, radiator assemblies, cylinder heads, door and fan motors. Specific elements of the program include: replacement of engines as part of mid-life overhaul; destination sign replacement; hybrid/electric battery replacement as part of the mid-life overhaul; replacement of fareboxes during mid-life overhaul; and replacement of soot filters as part of mid-life overhaul.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 7,192	$ 7,703	$ 12,770	$ 11,511	$ 15,378	$ 16,427	$ 70,981	$ 17,249	$ 88,230
2	Metro Matters Rollover	$ 1,719	$ -	$ -	$ -	$ -	$ -	$ 1,719	$ -	$ 1,719
3	**Total Project Expenditures**	$ 8,912	$ 7,703	$ 12,770	$ 11,511	$ 15,378	$ 16,427	$ 72,701	$ 17,249	$ 89,950

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Service Vehicle Replacement
ID: CIP 009

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa
Managing Dept.:	BMNT	**Proj. Manager:**	Sterling Brown
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus

Operating Impact:
Newer service vehicles will result in lower maintenance and higher fuel economy and have warranty.

Project Description:
This project will result in replacement of 200 vehicles in FY2012 and 1200 vehicles from FY2012-17.

FY2012 Planned Activities:
Replacement of approximately 60 non-revenue service vehicles and 60 emergency vehicles.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,122	$ 5,529	$ 7,964	$ 8,968	$ 7,937	$ 5,718	$ 38,237	$ 8,330	$ 46,567
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,122	$ 5,529	$ 7,964	$ 8,968	$ 7,937	$ 5,718	$ 38,237	$ 8,330	$ 46,567

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Environmental Compliance Projects
ID: CIP 010

Project Information

Sponsor Dept.:	SAFE	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry	Upgrades of the remote monitoring system will reduce operation and maintenance costs.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

This project includes environmental upgrades or replacements required to comply with regulatory requirements or directives. Metro risks civil and criminal penalties and fines if it does not comply with regulatory requirements.

FY2012 Planned Activities:

1. Stonestraw: Replace generator tank 2. Bladensburg: Abandon tanks in vault; West Falls Church Yd: Install stormwater structures 3. Bus garages/rail yards: Install storm water structures to reduce impermeable discharge 4. Four Mile Run: Upgrade pretreatment system and finish stormwater structures

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 626	$ 655	$ 692	$ 734	$ 770	$ 812	$ 4,289	$ 812	$ 5,101
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 626	$ 655	$ 692	$ 734	$ 770	$ 812	$ 4,289	$ 812	$ 5,101

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Storage Tank Replacement
ID: CIP 011

Project Information

Sponsor Dept.:	SAFE	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry	If tanks are not replaced, further degradation may lead to environmental mitigation costs.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus	

Project Description:

This project replaces underground storage tanks (UST) and above ground storage tanks (AST) at the end of their warranty periods and rehabilitate systems mid-life using the latest technologies. The upgrades and the replacements are required to minimize potential liabilities.

FY2012 Planned Activities:

1. Complete design underground storage tank (UST) replacement and issue tasks 2. Shady Grove Yd: Remove/inst 4 UST, Upgrade 1 UST; West Falls Church Yd: Remove/inst 2 UST, Upgrade 1 UST 3. Bladensburg: Remove 6 and inst 5 UST 4. Bladensburg: Remove 5 and inst 6 AST

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,069	$ 4,476	$ 2,530	$ 2,426	$ 1,005	$ 2,934	$ 15,439	$ 4,244	$ 19,683
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,069	$ 4,476	$ 2,530	$ 2,426	$ 1,005	$ 2,934	$ 15,439	$ 4,244	$ 19,683

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: MetroAccess Fleet Replacement
ID: CIP 015

Project Information

Sponsor Dept.:	ACCS	**ELT Manager:**	Christian Kent
Managing Dept.:	ACCS	**Proj. Manager:**	Glenn Millis/Jack Weiner
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Access

Operating Impact:
There are no additional funds available in the operating budget for the purchase of MetroAccess vehicles. MetroAccess operating contract expense would be greatly increased if vehicle acquisitions are not capitalized. Capitalizing fleet purchases improves reliability and sustainability of the fleet by maintaining an average fleet age of four years. Maintenance costs are lower for newer vehicles.

Project Description:
Vehicles in the paratransit fleet which have reached or exceeded their useful life will be replaced to achieve an average fleet age of 4 years, maximizing fleet safety, reliability and quality of service delivered in-line with projected ridership. will result in replacement of 230 vehicles in FY2012 and 2118 vehicles from FY2012-17 This project also includes additional budget and funding via ARRA and Metro Matters funds, which are 100% reimbursable via those sources.

FY2012 Planned Activities:
Complete procurement and take delivery for 230 replacement vehicles and ancillary equipment. Take delivery of pilot vehicle and perform 1st Article Inspection. Place remainder of vehicle order into production. Exercise 2nd option period on vehicle manufacturing contract for FY13.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 11,418	$ 11,559	$ 12,202	$ 10,247	$ 8,571	$ 10,846	$ 64,843	$ 14,669	$ 79,511
2	Metro Matters Rollover	$ 141	$ -	$ -	$ -	$ -	$ -	$ 141	$ -	$ 141
3	**Total Project Expenditures**	$ 11,559	$ 11,559	$ 12,202	$ 10,247	$ 8,571	$ 10,846	$ 64,984	$ 14,669	$ 79,652

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Track Welding Program
ID: CIP 018

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek
Managing Dept.:	TSSM	**Proj. Manager:**	Michael Brown
Proj. Category:	Track and Structures	**Proj. Type:**	Rail

Operating Impact:
Well maintained tracks maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays.

Project Description:
This project will improve the electrical conductivity of the rail, eliminate joint defects, reduce noise and wear, reduce maintenance and inspection costs, and help reduce cross tie fires by reducing the number of open rail joints throughout the rail system. This is an ongoing project. Currently there are approximately 1,750 open rail joints systemwide. As a result of running rail replacement, approximately 400 new open joints are created each year. The Flash Butt welding approach enables open joints to be welded at a much faster rate. In addition, the flash butt welding process allows for thermal adjustment to our track system, reducing the occurrences of track buckling and track pull parts, thus reducing delays and shutdown. Will result in 3000 welded joints.This project also includes additional budget and funding via ARRA funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:
Weld one hundred twenty-five (125) open rail joints.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 470	$ 2,656	$ 2,863	$ 3,089	$ 3,307	$ 3,560	$ 15,945	$ 3,730	$ 19,675
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 470	$ 2,656	$ 2,863	$ 3,089	$ 3,307	$ 3,560	$ 15,945	$ 3,730	$ 19,675

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Track Floating Slab Rehabilitation
ID: CIP 019

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek
Managing Dept.:	TSSM	**Proj. Manager:**	Michael Brown
Proj. Category:	Track and Structures	**Proj. Type:**	Rail

Operating Impact:
Well maintained tracks maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays.

Project Description:
This project will prevent service delays and speed restrictions due to differential settlement of the track structure and reduce noise and vibration to the surrounding building and structures by replacing failed isolation pads and restore the track structure to the proper elevation. Metro has an inventory of 45,530 linear feet of floating slabs. This project will result in retrofit of 2700 linear feet in FY2012 and 16200 linear feet from FY2012-17

FY2012 Planned Activities:
Retrofit six hundred seventy-five (675) linear feet of floating slabs between Benning Road and Addison Road. Procure three thousand (3,000) isolator pads.

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,580	$ 1,410	$ 1,319	$ 1,555	$ 1,616	$ 1,689	$ 9,169	$ 1,717	$ 10,886
2	Metro Matters Rollover	$ 53	$ -	$ -	$ -	$ -	$ -	$ 53	$ -	$ 53
3	**Total Project Expenditures**	$ 1,633	$ 1,410	$ 1,319	$ 1,555	$ 1,616	$ 1,689	$ 9,222	$ 1,717	$ 10,939

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Replacement of Rail Track Signage
ID: CIP 020

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek
Managing Dept.:	TSSM	**Proj. Manager:**	Larry E. Lee
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail

Operating Impact:
Replacing worn, illegible graphics improve safety by warning employees, customers, and emergency responder of Right-of-Way (ROW) hazards.

Project Description:
This project will replace old, illegible rail track graphic signs and various other signs indicating locations and warnings to employees, emergency responders, and the general public. Track graphics are essential for safe operations and emergency responses. Many signs throughout the Metrorail System are approximately 30 years old. Some of these signs require upgrading because they are damaged, deteriorated, or obsolete. The Right of Way (ROW) graphic signs are systemwide (on the ROW fence, chain markers, warning signs on tunnel vent shaft doors, third rail power warning signs, track identification signs, etc.). Will result in replaceemtn of 18,000 chain markers and 3000 signs.

FY2012 Planned Activities:
Procure and install seven hundred fifty (750) chain markers. Procure and install one hundred twenty-five (125) safety signs.

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 915	$ 1,060	$ 1,117	$ 1,177	$ 1,250	$ 1,235	$ 6,754	$ 1,341	$ 8,094
2	Metro Matters Rollover	$ 70	$ -	$ -	$ -	$ -	$ -	$ 70	$ -	$ 70
3	**Total Project Expenditures**	$ 984	$ 1,060	$ 1,117	$ 1,177	$ 1,250	$ 1,235	$ 6,823	$ 1,341	$ 8,164

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Track Pad/Shock Absorber Rehabilitation
ID: CIP 021

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Larry E. Lee	Well maintained tracks maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays.
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

This project will maintain track structure integrity by rehabilitating the grout/plinth pads. In addition, sections of track structure require rehabilitation to accept the new fasteners, switches, and switch machines required needed to sustain safe and efficient rail operations. Metro has an inventory of approximately 160 miles of grout pads (844,800 linear feet). Rehabilitation of the aerial grout pads is limited to the spring, summer and fall. During the winter months, STRC rehabilitates the grout pads in the Metro tunnels. The track geometry, cross-level, and gauge are maintained by the rail fasteners. The grout/plinth pads provide elevation and support for the running rails and are the main support for the rail fasteners. This project will result in rehabilitation of 5000 linear feet in FY2012 and 30000 linear feet from FY2012-17

FY2012 Planned Activities:

Repair one thousand two hundred fifty (1,250) linear feet of grout pads on Rhode Island Avenue, Grosvenor, Landover, D&G, Cheverly & Eisenhower Aerials. Procure cement material. Retrofit the trackbed for the new direct fixation fasteners and the switch machines. Procure (1) Prime Mover, (1) volumetric mixer, and (1) flatcar.

Line	Project Expenditures	FY2011	FY2012 (Forecast)	FY2013 (Forecast)	FY2014 (Forecast)	FY2015 (Forecast)	FY2016 (Forecast)	FY2011-16	FY2017 (Forecast)	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,098	$ 4,097	$ 2,155	$ 2,271	$ 2,419	$ 2,491	$ 15,530	$ 2,544	$ 18,075
2	Metro Matters Rollover	$ 177	$ -	$ -	$ -	$ -	$ -	$ 177	$ -	$ 177
3	**Total Project Expenditures**	$ 2,274	$ 4,097	$ 2,155	$ 2,271	$ 2,419	$ 2,491	$ 15,707	$ 2,544	$ 18,252

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Track Structural Rehabilitation
ID: CIP 022

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Larry E. Lee	Well maintained track infrastructure maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays.
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

This project will rehabilitate structural components and restore the track structures, such as elevated platforms, bridges, and retaining walls to their designed load carrying capacity. These rehabilitations are critical, as the loss of one of these structures could result in the functional loss of an entire Metrorail line segment.

FY2012 Planned Activities:

Rehabilitation of bridge anchor bolts, bearing pads, deck joints, deteriorated concrete, structural tees and angles. The goals are based on annual inspections and engineering assessments. Procure one (1) 35 foot boom truck. Procure one (1) 60 foot boom truck.

Line	Project Expenditures	FY2011	FY2012 (Forecast)	FY2013 (Forecast)	FY2014 (Forecast)	FY2015 (Forecast)	FY2016 (Forecast)	FY2011-16	FY2017 (Forecast)	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,741	$ 2,277	$ 2,890	$ 1,840	$ 1,787	$ 1,876	$ 12,411	$ 1,917	$ 14,328
2	Metro Matters Rollover	$ 578	$ -	$ -	$ -	$ -	$ -	$ 578	$ -	$ 578
3	**Total Project Expenditures**	$ 2,318	$ 2,277	$ 2,890	$ 1,840	$ 1,787	$ 1,876	$ 12,988	$ 1,917	$ 14,905

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Third Rail Rehabilitation
ID: CIP 023

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Michael Brown	Well maintained tracks maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays.
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

This project will replace the original third rail (5 miles annually) with the composite third rail. Original third rails have become worn throughout the Metrorail system. New aluminum and steel composite third rails will provide less resistance for eight car trains and allow trains to run more efficiently. This project will result in rehabilitation of 5 miles of third rail in FY2012 and 30 miles of third rail from FY2012-17

FY2012 Planned Activities:

Project Planning. Procure one (1) prime mover, one (1) flatcar, and one (1) multi-purpose handler.

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ 5,517	$ 4,184	$ 4,408	$ 4,606	$ 4,835	$ 23,550	$ 4,939	$ 28,489
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ 5,517	$ 4,184	$ 4,408	$ 4,606	$ 4,835	$ 23,550	$ 4,939	$ 28,489

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Track Rehabilitation
ID: CIP 024

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Michael Brown	Well maintained tracks maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays. Newer equipment reduces maintenance costs and the probability of breakdowns on mainline.
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

This project will fund the procurement of material and specialized equipment to facilitate the removal and installation of the track and switch panels which prevents service delays and speed restrictions. Track components require replacement when, based on industry standards, they become worn or unserviceable due to deterioration, excessive wear, or defects. Track & Structures System Maintenance rehabilitates the track infrastructure by replacing running rail, cross ties, direct fixation fasteners, third rail insulators, and turnouts annually. This project will result in 60 miles of third rail rehabilitation, purchase/ installation of 180 turnouts, 90,000 direct fixation fasteners and 48,000 crossties

FY2012 Planned Activities:

Install thirty (30) turnouts, 10 miles of running rail, fifteen thousand (15,000) direct fixation fasteners, eight thousand (8,000) cross ties, and five thousand (5,000) third rail insulator. Procure one (1) mobile maintenance unit.

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 39,055	$ 34,519	$ 37,223	$ 31,919	$ 33,369	$ 37,239	$ 213,323	$ 39,040	$ 252,363
2	Metro Matters Rollover	$ 8,618	$ -	$ -	$ -	$ -	$ -	$ 8,618	$ -	$ 8,618
3	**Total Project Expenditures**	$ 47,673	$ 34,519	$ 37,223	$ 31,919	$ 33,369	$ 37,239	$ 221,941	$ 39,040	$ 260,981

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Track Maintenance Equipment
ID: CIP 025

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Michael Brown	Newer equipment reduces maintenance costs and the probability of breakdowns on mainline.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This project funds the rehabilitation / replacement of heavy-duty track equipment. Track maintenance equipment is essential to deliver quality service and for the safe and efficient execution of the track rehabilitation work. Timely rehabilitation and replacement of self-propelled track equipment will ensure equipment reliability, reduce the probability of delays due to equipment breakdowns, and allow for efficient use of the right-of-way track time. This project funds the replacement of heavy-duty track equipment that has reached the end of its useful lifecycle and is no long economically feasible to maintain. Heavy-duty track equipment has a lead time of approximately 18 months. TSSM typically begin the procurement process in January prior to the planned fiscal year.

FY2012 Planned Activities:

1. Procurement Processing 2. Procure three (3) prime movers, three (3) multi-purpose handlers, five (5) flatcars, one (1) tie crane / inserter, three (3) diecer flats. 3. Procure three (3) locomotives & four (4) prime movers.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 553	$ 34,683	$ 12,840	$ 10,475	$ 10,425	$ 12,964	$ 81,940	$ 13,000	$ 94,940
2	Metro Matters Rollover	$ 690	$ -	$ -	$ -	$ -	$ -	$ 690	$ -	$ 690
3	**Total Project Expenditures**	$ 1,242	$ 34,683	$ 12,840	$ 10,475	$ 10,425	$ 12,964	$ 82,629	$ 13,000	$ 95,629

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Station/Tunnel Leak Mitigation
ID: CIP 026

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Larry E. Lee	Station and tunnel water leaks create slipping hazards for Metro's passengers and employees. In addition, water leaks deteriorate vital wayside system that leads to disruptions and service delays.
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

This project will restore and maintain the structural integrity of the tunnel liners, preventing leaks and prevent the corrosion of wayside systems,equipment, and track components. Station Tunnel Leak Mitigation eliminates unsafe wet conditions for Metrorail passengers and prevents service delays resulting from water intrusion. This project will result in the mitigation of 10,200 leaks, 1,700 of which will be fixed in FY2012.

FY2012 Planned Activities:

Repair one thousand seven hundred (1,700) leaks. Procure leak repair material. Procure leak repair material and one (1) manlift.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,900	$ 3,298	$ 3,277	$ 3,452	$ 3,607	$ 3,761	$ 20,294	$ 4,952	$ 25,246
2	Metro Matters Rollover	$ 158	$ -	$ -	$ -	$ -	$ -	$ 158	$ -	$ 158
3	**Total Project Expenditures**	$ 3,058	$ 3,298	$ 3,277	$ 3,452	$ 3,607	$ 3,761	$ 20,452	$ 4,952	$ 25,404

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Switch Machine Rehabilitation Project
ID: CIP 027

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Michael Savina	Well maintained tracks maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This project will improve the safety and reliability of the interlocking track structure by replacing selected switch machines as scheduled or as related to service delays. This work is necessary to ensure Metrorail system reliability. Will result in rehabilitation of 120 switch machines.

FY2012 Planned Activities:

Remove, rehabilitate, and replace five (5) switch machines

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 899	$ 950	$ 1,001	$ 1,054	$ 1,101	$ 1,157	$ 6,161	$ 1,181	$ 7,342
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 899	$ 950	$ 1,001	$ 1,054	$ 1,101	$ 1,157	$ 6,161	$ 1,181	$ 7,342

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Materials Handling Equipment
ID: CIP 028

Project Information

Sponsor Dept.:	PRMT	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Arthur Noyes	Newer equipment will require less maintenance and have a lower operating costs.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Bus/Rail	

Project Description:

This project replaces warehouse equipment that has reached the end of its useful life. The efforts may include but not limited to forklifts, manlifts, components and support infrastructures.

FY2012 Planned Activities:

Procure/rehab material handling equipment and support infrastructure at other Metro storerooms on a prioritized basis.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 158	$ 139	$ 144	$ 149	$ 153	$ 158	$ 901	$ 159	$ 1,060
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 158	$ 139	$ 144	$ 149	$ 153	$ 158	$ 901	$ 159	$ 1,060

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Warehouse Vertical Storage Units/Shelving
ID: CIP 029

Project Information

Sponsor Dept.:	PRMT	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Arthur Noyes
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Bus/Rail

Operating Impact:
A greater efficiency of space utilization lowers the need for facility expansion.

Project Description:
This project may include but not limited to procurement and installation of vertical storage units, shelving, and racking for storage of repair parts to allow greater storage capacity, greater inventory accuracy, and enhanced safety.

FY2012 Planned Activities:
On a prioritized basis, purchase and install 2 vertical parts storage units and reconfigure storage area at other Metro storerooms.

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 606	$ 766	$ 600	$ 622	$ 766	$ 660	$ 4,020	$ 665	$ 4,685
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 606	$ 766	$ 600	$ 622	$ 766	$ 660	$ 4,020	$ 665	$ 4,685

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Currency Processing Machines
ID: CIP 030

Project Information

Sponsor Dept.:	TRES	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail

Operating Impact:
Newer equipment will require less maintenance and have a lower overall impact.

Project Description:
This project will replace existing currency machines with newer machines with advanced technology and software that will reduce breakdowns and increase efficiency up to 50%. The currency machines currently in use have exceeded their life expectancy and have thus become unreliable. Cash counting operations are slowed when machines are out of service.

FY2012 Planned Activities:
Fabricate, install and test machines 1, 2, and 3.

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 647	$ 1,456	$ 799	$ -	$ -	$ -	$ 2,902	$ -	$ 2,902
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 647	$ 1,456	$ 799	$ -	$ -	$ -	$ 2,902	$ -	$ 2,902

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Debit/Credit Processing Requirements
ID: CIP 031

Project Information

Sponsor Dept.:	TRES	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry	TBD
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will replace or upgrade Payment Card Industry (PCI) security standards that are required because Metro accepts credit card transactions. Failure to meet PCI compliance will result in severe fines and penalties, including the forfeiture of the use of credit cards in the system. This project will result in 50 faregates and 30 express vendors.

FY2012 Planned Activities:

1. Annual PCI security audit starts in mid-Sept. and the findings are released the 2nd week of December 2. Receive findings and corrective actions 3. Prepare scope and purchase necessary equipment/software upgrade per the audit 4. Install corrective action items

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,911	$ 257	$ 257	$ 258	$ 257	$ 257	$ 3,197	$ 257	$ 3,454
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,911	$ 257	$ 257	$ 258	$ 257	$ 257	$ 3,197	$ 257	$ 3,454

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Fare Media Encoders
ID: CIP 032

Project Information

Sponsor Dept.:	TRES	**ELT Manager:**	Carol Kissal	**Operating Impact:**
Managing Dept.:	TRES	**Proj. Manager:**	Buddy Jaggie	Newer equipment will require less maintenance and have a lower overall impact.
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail	

Project Description:

This project will replace 3 high-speed fare media encoders, which encode the various types of paper magnetic strip fare cards. The existing fare media encoders have exceeded their life expectancy by 5 years, and are obsolete to the point that parts must be re-engineered and created. Frequent breakdown of these machines results in lost productivity and overtime costs.

FY2012 Planned Activities:

Continue installation for new high-speed fare media encoders. Transfer and install older fare media encoders in lower use sales and revenue sites.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,014	$ 579	$ -	$ -	$ -	$ -	$ 1,593	$ -	$ 1,593
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,014	$ 579	$ -	$ -	$ -	$ -	$ 1,593	$ -	$ 1,593

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Replacement of Revenue Facility Equipment
ID: CIP 033

Project Information

Sponsor Dept.:	TRES	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry	Improved ergonomic of new revenue transfer carts is expected to reduce worker injury and insurance claims.
Proj. Category:	Other Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

This project replaces/upgrades hardware and software including but not limited to fiber modules, scanners, GPS and etc. at the revenue collection facility. The project also funds replacement of about 100 revenue transfer carts out of 264 required.

FY2012 Planned Activities:

Fabricate and deliver 30 revenue carts

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 656	$ 266	$ 221	$ 507	$ 409	$ 264	$ 2,323	$ 398	$ 2,721
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 656	$ 266	$ 221	$ 507	$ 409	$ 264	$ 2,323	$ 398	$ 2,721

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Revenue Collection Facility (RCF) Building Expansion
ID: CIP 034

Project Information

Sponsor Dept.:	TRES	**ELT Manager:**	Carol Kissal	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry	Increased operational support from expanded service.
Proj. Category:	Other Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

This project will expand the Alexandria Revenue Collection Facility to accommodate future demand, including revenue collection needs of the Silver Line to Dulles. The building has reached its maximum capacity to house both equipment and personnel required to maintain efficient service and operation of the revenue collection functions.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bicycle & Pedestrian Facilities: Capacity Improvements
ID: CIP 035

Project Information

Sponsor Dept.:	PLJD	**ELT Manager:**	Nat Bottigheimer	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Kristin Haldeman	Minimal increased and more efficient physical infrastructure will result in minimal higher operational costs.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will increase bicycle parking capacity at Metrorail stations and improve connections to stations from local communities. This project is part of Metro's compliance with the Transportation Enhancement requirement of grant 5307 section (d)(1)(K).

FY2012 Planned Activities:

Continue construction and placement of bicycle and pedestrian facilities. Continue planning activities needed to improve bicycle and pedestrian access.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 983	$ 1,019	$ 1,220	$ 1,220	$ 1,220	$ 1,220	$ 6,882	$ 1,220	$ 8,102
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 983	$ 1,019	$ 1,220	$ 1,220	$ 1,220	$ 1,220	$ 6,882	$ 1,220	$ 8,102

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Replacement of Bicycle Racks & Lockers
ID: CIP 036

Project Information

Sponsor Dept.:	PLJD	**ELT Manager:**	Nat Bottigheimer	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Kristin Haldeman	Newer equipment will require less maintenance and have a lower overall impact.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will replace remaining Rack III style bike racks, replace other racks that are structurally damaged and implement a locker replacement plan. Current RACK III bike racks are deteriorating rapidly. This project is part of Metro's compliance with the Transportation Enhancement requirement of grant 5307 section (d)(1)(K).

FY2012 Planned Activities:

Align locker locations with demand. Procure and install locker replacements.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 410	$ 419	$ 521	$ 436	$ 448	$ 464	$ 2,698	$ 476	$ 3,174
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 410	$ 419	$ 521	$ 436	$ 448	$ 464	$ 2,698	$ 476	$ 3,174

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Priority Corridor Network Enhancements
ID: CIP 037

Project Information

Sponsor Dept.:	PLJD	**ELT Manager:**	Nat Bottigheimer	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Jim Hamre	Operational savings through more efficient bus service.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Bus	

Project Description:

This project will assist local governments and State DOTs with implementation of road and traffic measures, such as signal priorities, queue jumpers, bus bulbs, painted lanes, and left turn priorities, to support the Bus Priority Corridor Plan. Enhancements are also planned for bus stops, transit centers and customer information displays. This project will improve transit speed and reliability, give buses priority on roads, and enhance transit identity and image.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,062	$ 2,053	$ 2,059	$ 2,066	$ 2,056	$ -	$ 10,297	$ 6,168	$ 16,465
2	Metro Matters Rollover	$ 4,071	$ -	$ -	$ -	$ -	$ -	$ 4,071	$ -	$ 4,071
3	**Total Project Expenditures**	$ 6,133	$ 2,053	$ 2,059	$ 2,066	$ 2,056	$ -	$ 14,368	$ 6,168	$ 20,536

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Garage Capacity Enhancements
ID: CIP 038

Project Information

Sponsor Dept.:	PLJD	**ELT Manager:**	Nat Bottigheimer	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	TBD	Additional infrastructure will require greater operational support. Lower dead heading costs.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus	

Project Description:

This project will purchase land and construct two bus garages (to be determined) with the capacity to store up to 250 buses each in order to meet the needs of the current bus fleet and the additional buses necessary to meet growing demand. Seven of the nine bus garages are at or near their storage capacity.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 10	$ 2,206	$ -	$ -	$ -	$ -	$ 2,216	$ -	$ 2,216
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 10	$ 2,206	$ -	$ -	$ -	$ -	$ 2,216	$ -	$ 2,216

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Core & System Capacity Project Development
ID: CIP 039

Project Information

Sponsor Dept.:	PLJD	**ELT Manager:**	Nat Bottigheimer	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	TBD	Enhancements of station and passenger facilities in the core would help relieve crowding conditions during the peak, improve operating safety at stations and allow for capacity expansion at less cost.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will fund planning studies, conceptual engineering, environmental clearance and financial plans for core capacity enhancements targeted at increasing core capacity through pedestrian flow, vertical transportation, system enhancements, and station access improvements.

FY2012 Planned Activities:

1. Complete work and develop recommendations. 2. Procure consultant services to conduct the planning and conceptual engineering for the pedestrian connection between Farragut North and Farragut West stations. 3. Initiate work to develop concepts for pedestrian connection and pedestrian flow improvements between the Farragut North and Farragut West stations. 4. Continue developing design concepts. Initiate pedestrian simulation for pedestrian connection between Farragut North and Farragut West stations. 5. Refine pedestrian simulation, finalize concepts, initiate environmental screening and develop cost estimates. Work anticipated to be completed in FY13Q1.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 509	$ 3,027	$ 1,030	$ 1,033	$ 1,542	$ 1,028	$ 8,169	$ -	$ 8,169
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 509	$ 3,027	$ 1,030	$ 1,033	$ 1,542	$ 1,028	$ 8,169	$ -	$ 8,169

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus & Rail Asset Management Software
ID: CIP 042

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Robert Kramer	Lowering costs and lessening maintenance impact on customers.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will fund Maximo, Metro's asset and work management tracking system which is critical to the operations of rail and bus. Maximo should be kept current for the lifecycle of the next CIP and implements modules for use in the field. It will also help Metro better manage its assets. This project also includes additional budget and funding via ARRA funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:

1. Consultant services to implement Warehouse Management System enhancement for training and new features. 2. Procure and deploy Maximo Software licenses to 100 additional users. 3. Procure Asset Navigator Scanning Services 4. Create Maximo data warehouse for legacy data; Integrate Maximo with PeopleSoft Customer Relations Management System and Geographic Information Systems (GIS).

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ 4,174	$ 5,800	$ 3,600	$ 5,700	$ 4,900	$ 24,174	$ 3,815	$ 27,989
2	Metro Matters Rollover	$ 1,603	$ 10	$ -	$ -	$ -	$ -	$ 1,613	$ -	$ 1,613
3	**Total Project Expenditures**	$ 1,603	$ 4,185	$ 5,800	$ 3,600	$ 5,700	$ 4,900	$ 25,787	$ 3,815	$ 29,602

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Operations Support Software
ID: CIP 043

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Robert Kramer	This will result in more efficient operations.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus	

Project Description:

This project completes the deployment of centralized, field and on-board bus applications such as automatic vehicle maintenance, computer aided dispatch, and automatic vehicle location system. It also completes integration and normalization of all data that is required to meet customer information needs.

FY2012 Planned Activities:

1. Complete Fleetwatch upgrade in remaining 3 garages. 2. Upgrade the current automatic vehicle locator system to current release. Implement bus system integration, between Transit Database, Clever Devices vehicle maintenance System , ACS Orbital vehicle locator dispatch systems and WMATA business systems. Trapeze improvement and release upgrade.

Line	Project Expenditures	FY2011	FY2012 (Forecast)	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 149	$ 2,771	$ 3,000	$ 3,400	$ 3,500	$ 3,000	$ 15,820	$ 3,084	$ 18,904
2	Metro Matters Rollover	$ 1,844	$ -	$ -	$ -	$ -	$ -	$ 1,844	$ -	$ 1,844
3	**Total Project Expenditures**	$ 1,993	$ 2,771	$ 3,000	$ 3,400	$ 3,500	$ 3,000	$ 17,665	$ 3,084	$ 20,749

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Customer & Regional Integration
ID: CIP 044

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Bill Burcham	This will result in more efficient operations.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will modernize and integrate systems for communicating with customers and regional partners in a wide variety of circumstances including normal operations, minor delays, major delays, and emergencies. The current Metro IT environment has arisen over the past 30 years in an ad-hoc manner. This project solves this daunting enterprise problem by developing and deploying an enterprise-wide Service Oriented Architecture (SOA) that will integrate information sharing authority-wide.

FY2012 Planned Activities:

1. Initiate and complete development of concept of operations for sharing GIS and schedule information across regional transit systems. 2. Perform system design and develop prototype for sharing GIS and schedule information across regional transit systems.

Line	Project Expenditures	FY2011	FY2012 (Forecast)	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 4,231	$ 4,771	$ 3,776	$ 4,821	$ 4,797	$ 4,797	$ 27,193	$ 4,797	$ 31,990
2	Metro Matters Rollover	$ 5,334	$ -	$ -	$ -	$ -	$ -	$ 5,334	$ -	$ 5,334
3	**Total Project Expenditures**	$ 9,565	$ 4,771	$ 3,776	$ 4,821	$ 4,797	$ 4,797	$ 32,527	$ 4,797	$ 37,324

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Data Centers and Infrastructures
ID: CIP 045

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Veronica Lipscombe	1. Enable WMATA to improve availability of the mission ciritcal systems
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	2. Implement Disaster Recovery capability for the critical systems
				3. Consolidate server resources and reduce operational costs

Project Description:

This project will bring the Data Center infrastructure up to date including an upgrade of the data center facility, the computer rooms, transition of enterprise platforms from mainframe to client-server, enterprise storage and the consolidation of redundant and costly server infrastructure. Without this investment, Metro's current applications and all the applications considered in this capital plan will suffer from unnecessary failures possibly impacting visible transit operations such as rail control, fare collection or passenger information services.

FY2012 Planned Activities:

1. Analyze Servers and Storage requirements 2. Maintain Servers and Storage 3. Procure additionl storage and systems components for expnasion 4. Procure tools for Systems Management 5. Procure Health Check Services 6. Provide Systems and Servers Support 7. Expand storage and systems. 8. Implement tools for Systems Management 9. Perform systems Health Checks 10. Provide Systems and Servers Support 11. Exercise DR with expanded systems. 2. Provide Systems and Servers Support

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 5,479	$ 5,502	$ 3,400	$ 6,300	$ 5,200	$ 4,400	$ 30,281	$ 6,700	$ 36,981
2	Metro Matters Rollover	$ 2,913	$ -	$ -	$ -	$ -	$ -	$ 2,913	$ -	$ 2,913
3	**Total Project Expenditures**	$ 8,392	$ 5,502	$ 3,400	$ 6,300	$ 5,200	$ 4,400	$ 33,194	$ 6,700	$ 39,894

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Document Management System
ID: CIP 046

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Bill Burcham	Authority-wide Document Management Architecture providing real-time access to documents
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	supporting requirements.

Project Description:

This project provides for enterprise-wide document management for Metro, integration of the document management system with the major enterprise systems (such as PeopleSoft and Maximo) and compliance with Metro's proposed enterprise wide document retention. This project will support moving many manual paper based processes to electronic processes by enabling enterprise applications such as PeopleSoft and Maximo to easily be linked to electronic records and forms. It will enhance Metro's ability to respond to information request. This project also includes additional budget and funding via ARRA funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:

Implement Electronic Document Management and perform scanning for one to two departments (schedule not fixed by department)

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,549	$ 1,465	$ 2,000	$ 3,135	$ 2,600	$ 2,600	$ 13,349	$ 2,000	$ 15,349
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,549	$ 1,465	$ 2,000	$ 3,135	$ 2,600	$ 2,600	$ 13,349	$ 2,000	$ 15,349

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Enterprise Geographic Information System
ID: CIP 047

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Edwin Wells	Consistent geographic data and maps across the agency to support safer and more efficient asset management, transit operations, planning, public safety, and public information.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will create a single, agency-wide enterprise GIS to support integrated mapping and data, consistent information enterprise-wide, efficient operations, and informed stakeholders. GIS will support integration of key maps, drawings, asset records, and emergency access locations agency-wide. Universal access to data of this nature is critical for timely emergency responses.

FY2012 Planned Activities:

1. Legacy Data Consolidation and Migration. 2. Development of Data Maintenance Tools. 3. Development of GIS training program and training materials. 4. Web mapping services. 5. Consolidate and migrate legacy data. Develop data maintenance tools. Develop geographic information system (GIS), materials and web mapping training.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,690	$ 2,949	$ 2,574	$ 2,713	$ 3,598	$ 2,570	$ 16,095	$ 2,655	$ 18,750
2	Metro Matters Rollover	$ 257	$ -	$ -	$ -	$ -	$ -	$ 257	$ -	$ 257
3	**Total Project Expenditures**	$ 1,947	$ 2,949	$ 2,574	$ 2,713	$ 3,598	$ 2,570	$ 16,352	$ 2,655	$ 19,007

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Sensitive Data Protection Technology
ID: CIP 048

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Victor Iwugo	Provides regulatory compliance and data security.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will achieve and maintain regulatory compliance in providing a comprehensive Metro-wide security architecture that will reduce the risk of malicious attacks and cyber-terrorism, as well as fraud and waste. This project also includes additional budget and funding via ARRA funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:

Establish various security zones within the Metro intranet. PCI Zone Data Migration - Migrate all Payment Card Industry (PCI) data into its designated security zone Deploying database monitoring software to detect and protect access to sensitive information. Enable single sign on other services and systems. Integrate access management into physical security Migrate all Payment Card Industry (PCI) data into a newly designated Metronet security zone. Deploy database monitoring software to detect and protect access to sensitive information. Enable single sign on other services and systems. Integrate access management into physical security.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,936	$ 3,616	$ 4,758	$ 4,255	$ 4,112	$ 4,112	$ 24,791	$ -	$ 24,791
2	Metro Matters Rollover	$ 2,185	$ -	$ -	$ -	$ -	$ -	$ 2,185	$ -	$ 2,185
3	**Total Project Expenditures**	$ 6,121	$ 3,616	$ 4,758	$ 4,255	$ 4,112	$ 4,112	$ 26,976	$ -	$ 26,976

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Management Support Software
ID: CIP 049

Project Information

Sponsor Dept.:	DGMA	**ELT Manager:**	Carol Kissal	**Operating Impact:**
Managing Dept.:	DGMA	**Proj. Manager:**	Naheed Monower	This will result in increased productivity efficiency. Also reduce hardware and software costs due to decomminisioning of the mainfame.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will replace and/or update software that support corporate and financial control of operations such as treasury, budget, cash management, human capital management, procurement and vendor management functions. This project is essential for Metro to meet its fiscal duty to maintain sufficient controls to manage its corporate operations. In addition, the rollover portion of the funds for 2011 support the mainframe migration project which has its own timeline and contracts.This project also includes additional budget and funding via ARRA funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:

1. FSI: Implement EPM Budgeting module, post-production support; HCM Upgrade: Start Design and Build phase of project 2. FSI: Stabilization and post-production issue resolution; HCM: Test and Train Phase activities 3. FSI : Stabiliization and post -production issue resolution; HCM: Test, Train and Preparation for Deploy phase, implement upgrade of the core HR system. 4. FSI: Implement Position Management changes; HCM : Implement upgrade to the upgraded system

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 6,985	$ 14,566	$ 4,000	$ 4,000	$ -	$ -	$ 29,551	$ -	$ 29,551
2	Metro Matters Rollover	$ 6,018	$ 2,154	$ -	$ -	$ -	$ -	$ 8,172	$ -	$ 8,172
3	**Total Project Expenditures**	$ 13,003	$ 16,721	$ 4,000	$ 4,000	$ -	$ -	$ 37,723	$ -	$ 37,723

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Metro IT OneStop and Office Automation
ID: CIP 050

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Ron Phillips	1. Better Trained Support - Support Staff will have access to up-to-date procedures and problem solutions.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project maintains a one-stop desktop services center for remote support and trouble-shooting, software and hardware installation, electronic software distribution, and MS applications support. In order to achieve the overall desktop support mission the Authority requires a fully functioning IT Help Desk utilizing industry best practices. The Help Desk will be staffed by three tiers of highly skilled support technicians, desktop equipment inventory specialists, business analyst, and appropriate management. These staff will ensure that the Help Desk is operating in the most efficient manner, utilizing best practices to achieve agreed upon service levels, while delivering on it's basic mission to provide day-to-day technical assistance to WMATA employees, including the receiving and deployment of new and replacement equipment (refresh) as well as addressing interoperability issues on all standard software deployed across systems.

FY2012 Planned Activities:

1. Support the ordering, deployment, and surplussing of desktop computer equipment 2. Update enterprise licenses 3. Design and implement formal IT asset tracking system 4. Identify Help Desk best practice enhancements 5. Implement phases I & II of Help Desk best practices

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,061	$ 2,452	$ 5,082	$ 2,100	$ 2,100	$ 2,100	$ 16,893	$ 2,100	$ 18,993
2	Metro Matters Rollover	$ 1,440	$ 761	$ -	$ -	$ -	$ -	$ 2,201	$ -	$ 2,201
3	**Total Project Expenditures**	$ 4,502	$ 3,213	$ 5,082	$ 2,100	$ 2,100	$ 2,100	$ 19,095	$ 2,100	$ 21,195

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Police Dispatch and Records Management
ID: CIP 051

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Robert Kramer	Replacement of this legacy system should provide savings through greater efficiency
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project would replace the current MTPD (Metro Transit Police Department) legacy system with an up to date Records Management system to support dispatch, crime and response tracking to improve operations for riders.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ 995	$ -	$ -	$ 995	$ -	$ 995
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ 995	$ -	$ -	$ 995	$ -	$ 995

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Network and Communications
ID: CIP 052

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Chuck Wolfe	The Metronet project will increase network bandwidth and reliability, and will enable Metro to support strategic highband width WEB based applications without incurring the cost of a major network upgrade.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will: 1) Implement Metro-wide network and telecommunications upgrades; 2)Implement wireless networking for operational needs and multi-carrier cell phone partnership (Neutral Host); and 3) Implement software to manage circuit and telephone number management. This project will result in deployment of approximately 800 wireless access points.

FY2012 Planned Activities:

General Retrofits; Metronet enhancements; Cabling for administrative locations; Wireless networking for Administartive locations; Wireless networking for Rail stations

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,148	$ 5,003	$ 6,200	$ 4,565	$ 5,100	$ 6,100	$ 30,117	$ 4,200	$ 34,317
2	Metro Matters Rollover	$ 492	$ -	$ -	$ -	$ -	$ -	$ 492	$ -	$ 492
3	**Total Project Expenditures**	$ 3,640	$ 5,003	$ 6,200	$ 4,565	$ 5,100	$ 6,100	$ 30,609	$ 4,200	$ 34,809

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Network Operations Center (NOC)
ID: CIP 053

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Veronica Lipscombe	1. Ensuring 24/7/365 monitoring of critical WMATA systems 2. Proactive/predictive analysis and root cause analysis of network incidents 3. Detection of network incidents within 5 minutes, respond within 20 minutes, resolve within 2 hours 4. Server replacement will keep WMATA's critical services running on vendor supported hardware
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will provide a network operations center (NOC) which includes 24x7 support to manage and monitor system and network enterprise health. This is a key part of increasing the up-time of mission-critical systems such as the rail control and financial systems and will result in a higher level of overall safety for passengers and employees.

FY2012 Planned Activities:

1. Develop and implement escalator and elevator monitoring plan (parts I & II) 2. Execute recruitment and hiring activities to staff for 24/7/365 operations

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,879	$ 2,532	$ 2,287	$ 3,252	$ 2,352	$ 2,352	$ 14,654	$ 2,487	$ 17,141
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,879	$ 2,532	$ 2,287	$ 3,252	$ 2,352	$ 2,352	$ 14,654	$ 2,487	$ 17,141

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Customer Electronic Communications & Outreach
ID: CIP 054

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Mary Kaye Vavasour/Eleanor	Development and implementation of these projects will result in more efficient operations and rider servcies
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will provide for enhanced electronic communications and customer outreach. The project will focus on customer demands for rapid and flexible data delivery systems for Metro communications, schedules, system alerts, and commuting benefits and fares.

FY2012 Planned Activities:

1) Continue enhancement activities for the refresh of the Internet Portal (wmata.com). 2) Continue development of GIS Web Services for Trip Planner to integrate bus stop records and routes into a bus stop network. 3) Build Extranet website to allow external access to Intranet based employee communications and applications. 4) Ongong Internet Portal enhancements. 5) Build Intranet departmental sub-portals. 6) Ongoing SharePoint enhancements. 7) Build mobile web applications for ELES 8) Redesign of the wmata.com Mobile website

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,277	$ 3,114	$ 2,800	$ 2,222	$ 2,000	$ 2,000	$ 13,414	$ 2,000	$ 15,414
2	Metro Matters Rollover	$ 1,265	$ -	$ -	$ -	$ -	$ -	$ 1,265	$ -	$ 1,265
3	**Total Project Expenditures**	$ 2,543	$ 3,114	$ 2,800	$ 2,222	$ 2,000	$ 2,000	$ 14,679	$ 2,000	$ 16,679

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Operations Support Software
ID: CIP 056

Project Information

Sponsor Dept.:	IT	**ELT Manager:**	Suzanne Peck	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	Robert Kramer	Upgrades are required to maintain vendor software and customer support and will have no operating impact.
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail	

Project Description:

This project will provide software application support for the Rail Operations Control Centers (ROCCs) and other rail operations area. This software needs to be kept current in order to receive vendor support and operate the rail system.

FY2012 Planned Activities:

Produce and review draft reports for all rail system summary requirements for solutions and integrations. Begin high level architectural design to support requirements. Develop models and simulations to demonstrate proposed new architecture. Rail operations support upgrade will provide solutions and intergration for the following systems: Advance Information Management (AIM), Large Scale Display enhancements, Train Progress Server (TPS) reports automatic failover. Carmen Turner Facility (CTF OCC automatic failover to Jackson Grahamn Building OCC. Trapeze real time schedules intergration for AIM, Rail Performance Monitor (RPM), Passenger Information Display System (PIDS), and TPS. RPM real time rail service metrix, rail car count.

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,511	$ 2,492	$ 5,149	$ 5,665	$ 5,141	$ 5,140	$ 25,097	$ 5,170	$ 30,267
2	Metro Matters Rollover	$ 647	$ -	$ -	$ -	$ -	$ -	$ 647	$ -	$ 647
3	**Total Project Expenditures**	$ 2,157	$ 2,492	$ 5,149	$ 5,665	$ 5,141	$ 5,140	$ 25,744	$ 5,170	$ 30,914

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: 1000 Series Rail Car Replacement
ID: CIP 057

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Debo Ogunrinde	Newer rail cars will decrease maintenance / operating costs and improve reliability.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail	

Project Description:

This project will replace all 300 of the 1000 Series rail cars, which were purchased between 1974 and 1978, with new 7000 Series rail cars. This project is one component of a combined program plan structured to avoid repetitive developmental cost associated with a new car design and procurement. This project also includes additional budget and funding via Reimbursable funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:

Metro's proportional share of development costs for base 64

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 79,902	$ 20,022	$ 11,753	$ 8,353	$ 98,115	$ 277,130	$ 495,274	$ 205,802	$ 701,076
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 79,902	$ 20,022	$ 11,753	$ 8,353	$ 98,115	$ 277,130	$ 495,274	$ 205,802	$ 701,076

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: 2000/3000 Series Rail Car Mid Life Rehabilitation
ID: CIP 058

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Damon Cannon	Rehabilitated railcars are more reliable and require less routine maintenance.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail	

Project Description:

This project funds the mid-life rehabilitation of the 2000 and 3000 Series rail cars. Final project close-out will occur in FY2012 when the warranty and reliability period ends. Will result in rehabilitation of 366 railcars

FY2012 Planned Activities:

manuals, testing equipment,engineering services, project management, indirect costs, closeout of contract

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,230	$ 2,816	$ 1,153	$ -	$ -	$ -	$ 6,199	$ -	$ 6,199
2	Metro Matters Rollover	$ 2,824	$ 215	$ -	$ -	$ -	$ -	$ 3,039	$ -	$ 3,039
3	**Total Project Expenditures**	$ 5,054	$ 3,031	$ 1,153	$ -	$ -	$ -	$ 9,238	$ -	$ 9,238

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: 4000 Series Rail Car Replacement
ID: CIP 060

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Debo Ogunrinde	Newer rail cars will decrease maintenance / operating costs and improve reliability.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail	

Project Description:

This project will fund the replacement all 100 of the 4000 Series rail cars, which were purchased during 1992 - 1994. To meet current safety standards and based on the contractors bids, it is more economical to replace there rail cars than to do a mid-life rehabilitation. In order to gain economies of scale and improve quality, this work is an option on the Kawasaki 7000 Series rail car contract.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ 4,075	$ 19,964	$ 127,373	$ 151,412	$ 78,716	$ 230,127
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ 4,075	$ 19,964	$ 127,373	$ 151,412	$ 78,716	$ 230,127

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: 6000 Series Rail Car Procurement
ID: CIP 062

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek
Managing Dept.:	RAIL	**Proj. Manager:**	Dave Hughson
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail

Operating Impact:
Newer rail cars will require less maintenance, though the addition of more railcars to the fleet will require additional operational support.

Project Description:
This project will complete the 6000-Series rail car procurement options. All cars were placed into service in FY 2009. Projected completion of the warranty and reliability period is FY2014. Will result in 184 Railcars from FY2012-17 This project also includes additional budget and funding via Reimbursable and Metro Matters funds, which are 100% reimbursable via those sources.

FY2012 Planned Activities:
Emergency exterior door Release, gear boxes, engineering services, project management and indirect costs

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,552	$ 1,961	$ 1,042	$ 1,469	$ -	$ -	$ 8,024	$ -	$ 8,024
2	Metro Matters Rollover	$ 3,172	$ 800	$ -	$ 1,072	$ -	$ -	$ 5,044	$ -	$ 5,044
3	**Total Project Expenditures**	$ 6,724	$ 2,761	$ 1,042	$ 2,541	$ -	$ -	$ 13,068	$ -	$ 13,068

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Rehabilitation Program
ID: CIP 063

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek
Managing Dept.:	CMNT	**Proj. Manager:**	Gene Garzone
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail

Operating Impact:
These components keep railcars in service.

Project Description:
This project provides for the annual procurement of major repairable rail car components to support the maintenance of the fleet in a state of good performance. Major railcar components must be switched out on a regular basis. While these assemblies can sometimes be refurbished and re-used, eventually they will have to be removed from use completely. Therefore, a certain quantity of new components must be acquired each year. Approximately one-fifth of the fleet or 225 cars are subject to heavy overhaul annually. Major heavy overhaul components include replacement of wheels, brake systems, traction motors and truck overhaul.

FY2012 Planned Activities:
Perform heavy overhaul on railcar fleet. Purchase repairable parts to include traction motors, brake assemblies, couplers and air compressors.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 9,371	$ 21,522	$ 19,703	$ 19,892	$ 19,981	$ 21,164	$ 111,633	$ 21,489	$ 133,122
2	Metro Matters Rollover	$ 2,554	$ -	$ -	$ -	$ -	$ -	$ 2,554	$ -	$ 2,554
3	**Total Project Expenditures**	$ 11,925	$ 21,522	$ 19,703	$ 19,892	$ 19,981	$ 21,164	$ 114,187	$ 21,489	$ 135,676

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: 1000 Series Rail Car HVAC Rehabilitation
ID: CIP 064

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Jeff Thompson	HVAC systems will be more reliable, making more cars available and requiring less routine maintenance.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail	

Project Description:

This project will provide for the repair or replacement of major components including HVAC and circuit breakers, on the 1000 Series railcars to keep the cars operational until replacement cars start to be received in FY2015. Will result in repair of 291 HVAC units and 300 circuit breakers.This project also includes additional budget and funding via Reimbursable funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:

Continue evaporator coil cleaning,asbestos abatement, condensate drain modification.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,465	$ 2,152	$ 190	$ -	$ -	$ -	$ 4,807	$ -	$ 4,807
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,465	$ 2,152	$ 190	$ -	$ -	$ -	$ 4,807	$ -	$ 4,807

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Geometry Vehicle
ID: CIP 065

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Dennis Lemke	Current inspections are contracted. WMATA ownership of a geometry vehicle will eliminate this expense and allow for more efficient inspections.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This project will procure a track geometry vehicle to analyze track conditions and will complete the required capabilities of the inspection system. Owning a vehicle of this type will allow for more comprehensive and frequent track inspections throughout the year, as well as testing all new track construction projects and track repairs as they are installed.

FY2012 Planned Activities:

Continue design and test specialized geometry vehicle equipment such as guard rail gauge, inertialsystem, thermal imaging units. Procure jacks. Completion of Track Geometry Vehicle testing. Delivery of vehicle to WMATA. Wmata testing. Manuals. Specialty tools. Final acceptance of vehicle

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ 3,417	$ 2,340	$ 486	$ -	$ -	$ 6,243	$ -	$ 6,243
2	Metro Matters Rollover	$ 1,834	$ 5,511	$ 302	$ -	$ -	$ -	$ 7,648	$ -	$ 7,648
3	**Total Project Expenditures**	$ 1,834	$ 8,928	$ 2,643	$ 486	$ -	$ -	$ 13,892	$ -	$ 13,892

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Shop Repair Equipment
ID: CIP 066

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Arthur Noyes	Newly purchased wheel truing equipment will replace older, unreliable equipment. Other items will replace older, less capable non-automated machining equipment, and wash tanks are necessary for on-going transit truck overhaul.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This project will replace maintenance and shop equipment that has reached the end of its useful life in order to provide reliability for the delivery of quality service. The scope may include but not limited to overhead cranes, rail train lifts, hoists, industrial shop air compressors, service elevators, hoisting mechanisms, wheel truing machines and electrical controls.

FY2012 Planned Activities:

1. Contractor submits design for Greenbelt wheel truing machine; Obtain quotes for misc equipment purchase 2. Review contractor design, Starts wheel truing machine fabrication; Issue purchase orders for misc equipment purchase 3. Deliver wheel truing machine to Greenbelt, Starts installation; Receive delivery of misc. equipment purchase 4. Complete installation and test Greenbelt wheel truing machine

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,169	$ 4,209	$ 4,222	$ 4,236	$ 4,215	$ 4,215	$ 23,265	$ 2,980	$ 26,246
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,169	$ 4,209	$ 4,222	$ 4,236	$ 4,215	$ 4,215	$ 23,265	$ 2,980	$ 26,246

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Car Safety & Reliability Enhancements
ID: CIP 067

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	CENV	**Proj. Manager:**	Joseph Reynolds	This project will result in greater efficiency and productivity.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail	

Project Description:

This project performs engineering analysis, diagnosis, testing and resolution of safety, maintenance and operational issues relating to the railcar fleet and its interaction with track work, automatic train control, communication and power systems. It resolves compatibility issues across the various fleets and infrastructure related to changes and aging in technology and components.

FY2012 Planned Activities:

Continue emergency exterior door releases. Continue rollback prevention. Continue wrong side door repair. air compressor replacements on 2000/3000 Series rail cars Includes in-house labor, equipment, material and consultant services

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 8,524	$ 6,022	$ 1,502	$ 1,653	$ 1,699	$ 1,755	$ 21,156	$ 1,802	$ 22,958
2	Metro Matters Rollover	$ 3,811	$ 2,715	$ -	$ -	$ -	$ -	$ 6,525	$ -	$ 6,525
3	**Total Project Expenditures**	$ 12,335	$ 8,737	$ 1,502	$ 1,653	$ 1,699	$ 1,755	$ 27,681	$ 1,802	$ 29,483

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Test Track & Commissioning Facility
ID: CIP 071

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas	Operating costs will be required to maintain this facility, however testing will no longer interfere with the revenue rail system. The new track infrastructure and building will add new facilities that must be maintained and will increase utility costs.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Rail	

Project Description:

Design and construction of 10,000 feet of track between College Park and Greenbelt metrorail stations. Design and construction of a multistory building in Greenbelt Rail Yard. Both facilities will be used to commission and test new and rehabilitated rail cars. This project will result in 10000 ft of test track and a 25000 sq ft facility.

FY2012 Planned Activities:

1. Board approval of public hearing staff report and to advertise and award Design/ Build contract. 2. Receive and review proposals. 3. Award and issue NTP for Design/ Build contract and commence with final design. 4. Commence with construction of the test track.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,900	$ 3,000	$ 40,000	$ 40,000	$ 1,474	$ -	$ 86,374	$ -	$ 86,374
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,900	$ 3,000	$ 40,000	$ 40,000	$ 1,474	$ -	$ 86,374	$ -	$ 86,374

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Elevator Rehabilitation
ID: CIP 072

Project Information

Sponsor Dept.:	ELES	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ELES	**Proj. Manager:**	Jeff Griffin	Newer equipment will require less maintenance and have a lower overall impact, in addition to utility savings.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will fund the rehabilitation, code, and safety upgrades of the oldest and poorest performing elevators and is necessary to maintain elevator availability and reliability. Additionally, elevators are rehabilitated with energy saving devices. Locations for rehabilitation will be tied to the System Infrastructure Rehabilitation Program schedule. Will resilt in 22 elevator rehabilitations.

FY2012 Planned Activities:

Oversight of the moderinzation of Gallery Place traction elevator B01E01, Metro Center hydraulic elevator C01N01 and Farrragut North hydraulic elevators A02S01 & A02S02 under the Red Line contract. Oversight of the moderinzation of Courthouse traction elevator K01X01, Stadium-Armory hydraulic elevators D08S01 & D08S02 and Eastern Market hydraulic elevator D06X01 Capitol South hydraulic elevators D05X01 & D05X02 and Potomac Avenue hydraulic elevator D07X01 under the Blue/Orange line contract

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,302	$ 3,490	$ 2,265	$ 1,136	$ 1,645	$ 2,159	$ 12,998	$ 2,200	$ 15,198
2	Metro Matters Rollover	$ 55	$ -	$ -	$ -	$ -	$ -	$ 55	$ -	$ 55
3	**Total Project Expenditures**	$ 2,358	$ 3,490	$ 2,265	$ 1,136	$ 1,645	$ 2,159	$ 13,054	$ 2,200	$ 15,254

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Escalator Rehabilitation
ID: CIP 073

Project Information

Sponsor Dept.:	ELES	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ELES	**Proj. Manager:**	Jeff Griffin	Newer equipment will require less maintenance and have a lower overall impact, in addition to utility savings.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will fund the rehabilitation, code, and safety upgrades of the oldest and poorest performing escalators. Necessary to maintain escalator availability and reliability. Additionally, escalators are rehabilitated with energy saving devices. Locations for rehabilitation will be tied to the System Infrastructure Rehabilitation Program schedule. Will resilt in 93 escalator rehabilitations.

FY2012 Planned Activities:

Modernization of Wheaton esclator B10X01, Union Station escalator B03N03 and Gallery Place B01E07 and begin Union Station B03N04 and Gallery Place B01E08 under contract FP7010. Oversight of the modernization of Judiciary Square escalator B02S04, B02S05, B02S06, & B02S07 and replacement of Foggy Bottom escalator C04X02 and C04X03 and replacement of Dupont Circle escalators B03S01, S02 & S03 under the Red Line contract. Oversight of the modernization of Stadium-Armory escalator D08N01, D08N02 & D08N03, Capitol South escalator D05X04 & D05X05, Eastern Market escalator D06X04 & D06X05 and Potomac Avenue escalator D07X04, D07X05, & D07X06 under the Blue/Orange contract.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 4,948	$ 10,051	$ 11,738	$ 13,946	$ 13,879	$ 9,767	$ 64,330	$ 10,600	$ 74,930
2	Metro Matters Rollover	$ 1,568	$ -	$ -	$ -	$ -	$ -	$ 1,568	$ -	$ 1,568
3	**Total Project Expenditures**	$ 6,516	$ 10,051	$ 11,738	$ 13,946	$ 13,879	$ 9,767	$ 65,898	$ 10,600	$ 76,498

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Installation of Parking Lot Credit Card Readers
ID: CIP 074

Project Information

Sponsor Dept.:	PARK	**ELT Manager:**	Bottigheimer	**Operating Impact:**
Managing Dept.:	PARK	**Proj. Manager:**	Patrick Schmitt	Additional equipment will require greater operational support.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

Phase I of this project will install credit card readers at remaining Pay-on-Exit parking garages and surface parking lots. Phase II of this project will automate Parking Access and Revenue Control providing remote communication between payment lanes and a Parking Operations Center. This project will result in 40 credit card readers and 3 servers.

FY2012 Planned Activities:

Procurement and installation of Parking Access and Revenue Collection (PARC) equipment.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: 100% 8-Car Train - Power Upgrades
ID: CIP 076

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Richard Shiflet	Additional infrastructure maintenance will be offset by decreased frequency of breakdowns.
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail	

Project Description:

This project includes of the improvements to the traction-power system to allow the deployment toward 100% eight car trains. The increase from 6 to 8 cars increases power requirements of each train, and thus the load put on the traction power system. Will result in purchase and istallation of 95000 ft of third rail

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ 6,986	$ 7,980	$ 6,791	$ 7,258	$ 29,015	$ 7,258	$ 36,273
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ 6,986	$ 7,980	$ 6,791	$ 7,258	$ 29,015	$ 7,258	$ 36,273

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: 8-Car Train Power Upgrades
ID: CIP 077

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Richard Shiflet	Additional infrastructure maintenance will be offset by decreased frequency of breakdowns.
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail	

Project Description:

This project includes completion of the improvements to the traction power system to allow the deployment of up to 50% eight car trains under the Metro Matters program. The increase from 6 to 8 cars increases power requirements of each train, and thus the load on the traction power system. Project pairs with CIP 076.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 4,132	$ -	$ -	$ -	$ -	$ -	$ 4,132	$ -	$ 4,132
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 4,132	$ -	$ -	$ -	$ -	$ -	$ 4,132	$ -	$ 4,132

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bladensburg Shop Reconfiguration
ID: CIP 078

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Arthur Noyes
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus

Operating Impact:
Increased operational efficiency will offset the need for additional mechanics. This project itself does not increase the bus fleet size.

Project Description:
This project will reconfigure the Bladensburg Heavy Overhaul Shop to provide additional workspace (6 to 9 service bays) for the maintenance of buses and storage of 145 buses. It supports increased fleet size and allow proper bus maintenance and reliability to meet customer needs.

FY2012 Planned Activities:
Reconfigure shop floor plan for CNG bus access and constructing 6-9 maintenance bays, 1 steam bay with bus lift.

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,660	$ 6,549	$ 7,258	$ 9,431	$ -	$ -	$ 25,897	$ -	$ 25,897
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,660	$ 6,549	$ 7,258	$ 9,431	$ -	$ -	$ 25,897	$ -	$ 25,897

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Jackson Graham Building Renovation
ID: CIP 080

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Arthur Noyes
Proj. Category:	Other Facilities	**Proj. Type:**	Bus/Rail

Operating Impact:
Rehabilitated infrastructure will require less routine maintenance.

Project Description:
This project will provide for the partial rehabilitation of the Jackson Graham Building (JGB), most notably the Power Distribution Unit (PDU). Many internal systems, including the PDU that provides pow er for the bus and rail
operational control centers, are obsolete and unreliable. Replacement and rehabilitation will prevent future outages of critical operating and information systems.

FY2012 Planned Activities:
TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,608	$ -	$ -	$ -	$ -	$ -	$ 3,608	$ -	$ 3,608
2	Metro Matters Rollover	$ 3,791	$ -	$ -	$ -	$ -	$ -	$ 3,791	$ -	$ 3,791
3	**Total Project Expenditures**	$ 7,399	$ -	$ -	$ -	$ -	$ -	$ 7,399	$ -	$ 7,399

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Southern Avenue Bus Garage Replacement
ID: CIP 084

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus

Operating Impact:
The larger facility will likely consume more utilities than the existing facility. Maintenance of the facility will likely decrease in comparison to the existing old facility.

Project Description:
Replacement of the existing Southern Avenue Bus Garage with a facility that can hold up to 250 buses. This project will result in increased garage capacity, and additional CNG fueling facilities, diesel fuel lanes and gas pumps.

FY2012 Planned Activities:
1. Release to the public, the draft general plans and the environmental evaluation documents, then hold the public hearing. 2. Prepare and distribute the public hearing staff report and obtain Board approval for same. Make selection of winning proposal. 3. Commence with final design with acquisition of property. 4. Commence with construction.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 10,533	$ 29,246	$ 51,759	$ 21,720	$ -	$ -	$ 113,258	$ -	$ 113,258
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 10,533	$ 29,246	$ 51,759	$ 21,720	$ -	$ -	$ 113,258	$ -	$ 113,258

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Royal Street Bus Garage Replacement (Cinder Bed Road)
ID: CIP 085

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus

Operating Impact:
Upon opening, the Cinder Bed Road bus garage will increase WMATA's inventory of facilities that require maintenance, albeit minor in the case of a new facility. Also, utility costs will increase.

Project Description:
This project is for the replacement of existing Royal Street Garage with LEED Silver facility at Cinder Bed Road with a capacity of 160 buses. This project includes land and CNG fueling capability. The existing garage is constrained in capacity and limited to the type of bus that can be operated and maintained at the facility. This project will result in increased garage capacity, and additional CNG fueling facilities, diesel fuel lanes and gas pumps.This project also includes additional budget and funding via Reimbursable funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:
Commence with construction.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 16,595	$ 31,768	$ 47,979	$ 2,436	$ -	$ -	$ 98,779	$ -	$ 98,779
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 16,595	$ 31,768	$ 47,979	$ 2,436	$ -	$ -	$ 98,779	$ -	$ 98,779

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Southeastern Bus Garage Replacement (DC Village)
ID: CIP 086

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas	Upon opening, the DC Village bus garage will increase WMATA's inventory of facilities that require maintenance, albeit minor in the case of a new facility. Also, utility costs will increase with the additional facility.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus	

Project Description:

This project is for the replacement of Southeastern Bus Garage on the site of D.C. Village. The Southeastern Bus Facility was sold to accommodate the development associated with the new Nationals baseball stadium. As part of the agreement for the original Southeastern facility, the District of Columbia was to provide land at the D.C. Village site for a new bus facility. This project will result in increased garage capacity, and additional CNG fueling facilities, diesel fuel lanes and gas pumps.This project also includes additional budget and funding via Reimbursable and ARRA funds, which are 100% reimbursable via those sources

FY2012 Planned Activities:

1. Issue tasks to consultants for preparation of contract documents for CNG fueling equipment. 2. Finalize design and issue RFP for CNG fueling equipment. 3. Receive and review proposals for CNG fueling equipment. 4. Award and NTP for contract for design and installation of the CNG fueling equipment.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 27	$ 30,719	$ 14,918	$ -	$ -	$ -	$ 45,664	$ -	$ 45,664
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 27	$ 30,719	$ 14,918	$ -	$ -	$ -	$ 45,664	$ -	$ 45,664

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Station Rehabilitation Program
ID: CIP 087

Project Information

Sponsor Dept.:	OPSV	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	PLNT	**Proj. Manager:**	Tom Morrison	Station enhancements lower regular maintenance costs.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will provide thorough cleaning of station concrete and architectural features, painting of doors and railings, repair of paver tile and granite on a periodic basis. Failure to perform this work will result in a deterioration of the appearance of the stations and may pose safety issues with loose or missing paver tile. will result in 72 full and 72 mini station enhancements.

FY2012 Planned Activities:

Silver Spring Mini; Takoma Park Mini; Minnesota Avenue Full; Arlington Cemetery Full; National Airport Full; Braddock Road Mini;Georgia Avenue Mini; Pentagon City Mini; Crystal City Mini; Stadium Armory Full; Eastern Market Full; Federal Center Full; Achieves Mini; L'Enfant D line Full; L'Enfant F line Full; McPherson Square Full; Farragut North Full; Rosslyn Full; Capitol South Full; Morgan Blvd. Mini; Largo Mini; King Street Mini; Eisenhower Mini; New York Ave Mini; Twelve full station enhancements per year Twelve mini station enhancements per year Twelve full station enhancements and twelve mini station enhancements on an annual basis. Work includes heavy maintenance, painting, spot tile replacement, and other maintenance for 12 major and twelve mini rehabilitations on an annual basis. Hydropressure wash all masonry surfaces in all 24 stations. Repair and paint all metal surfaces to include bus bay shelters, resurface shelter benches, repair railings, doors, bathroom partitions repair or replace broken sign poles etc. Paint all metal surfaces, Kiosk, addfare machines, transfer machines, bathrooms, fire equipment corridors, metal passageway ceilings, outside railings, parking light poles, bus shelters, and phone booths. Repair and replace missing and broken floor tiles etc. Repair worn station graphics, parking signs, do not enter signs, stop signs, parking lot designation signs, elevator/escalator graphics etc.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 8,586	$ 7,832	$ 7,960	$ 8,089	$ 8,153	$ 8,358	$ 48,978	$ 8,488	$ 57,466
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 8,586	$ 7,832	$ 7,960	$ 8,089	$ 8,153	$ 8,358	$ 48,978	$ 8,488	$ 57,466

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Station Entrance Canopies
ID: CIP 088

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas	Canopies may reduce weather-related maintenance needs of escalators.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will complete the program to install canopies over remaining station entrances with exposed escalators to protect both riders and escalators from weather. Per building code, this work must be performed in conjunction with the replacement or major rehabilitation of escalators in rail station entranceways. Will result in 22 station entrance canopies

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 23,000	$ 23,000
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 23,000	$ 23,000

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Track Fasteners
ID: CIP 089

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Douglas Gibson	Well maintained tracks maximize customers' satisfaction through convenient and comfortable rail services and minimize disruptions and service delays.
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

This project replaces track fasteners that, when worn out, cause stray current and have often been found to be the cause of fires on the system. Track fasteners are an integral structural component of the track system that needs to be replaced periodically. Metro has an inventory of 504, 514 fasteners systemwide. This project will result in 300,000 track fasteners, 50,000 of which will be installed in FY2012.

FY2012 Planned Activities:

Replace one thousand two hundred fifty (12500) direct fixation fasteners.

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,066	$ 2,053	$ 2,059	$ 2,066	$ 2,056	$ 2,056	$ 12,357	$ 2,700	$ 15,057
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,066	$ 2,053	$ 2,059	$ 2,066	$ 2,056	$ 2,056	$ 12,357	$ 2,700	$ 15,057

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Automatic Fare Collection Machines
ID: CIP 091

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail

Operating Impact:
Additional equipment will require greater operational support. Replaced equipment will reduce cost of equipment repair.

Project Description:
This project will purchase and install additional Fare Collection Equipment to accommodate additional riders and provide upgraded Automatic Fare Collection (AFC) equipment parts in the rail system that are obsolescent and/or aging. Additional equipment is needed to accommodate this additional ridership, reduce lines and improve customer service. Equipment will be installed at locations where ridership has increased beyond the capacity of the equipment currently installed with other equipment is replaced to ensure reliability and appropriate revenue collection.

FY2012 Planned Activities:
Contractor fabricate, deliver, install, and test fare machine, fare gates, Smart Monitoring & Display computers

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ 1,075	$ 1,111	$ 1,111	$ 1,111	$ 1,111	$ 5,518	$ 1,111	$ 6,629
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ 1,075	$ 1,111	$ 1,111	$ 1,111	$ 1,111	$ 5,518	$ 1,111	$ 6,629

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Ethernet Wiring for Rail Fare Machines
ID: CIP 092

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail

Operating Impact:
New cables will require minor operational support.

Project Description:
This project is for the installation of Ethernet wiring to all Automatic Fare Collection (AFC) devices in the rail system. Ethernet wiring will speed communication speeds and are essential for the NEXTFARE project.

FY2012 Planned Activities:
TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,343	$ -	$ -	$ -	$ -	$ -	$ 1,343	$ -	$ 1,343
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,343	$ -	$ -	$ -	$ -	$ -	$ 1,343	$ -	$ 1,343

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Integrating regional NEXTFARE System
ID: CIP 093

Project Information

Sponsor Dept.:	SMRT	**ELT Manager:**	Carol Kissal	**Operating Impact:**
Managing Dept.:	SMRT	**Proj. Manager:**	Ramon Abramovich	None.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will replace and upgrade regional NEXTFARE collection system. The current fare collection system requires upgrading or replacement as technology changes, and for improved regional fare collection. This priject will result in 250 Compact Point of Sale equipment

FY2012 Planned Activities:

Continued support of Nextfare

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,789	$ 955	$ 195	$ 195	$ 195	$ -	$ 3,329	$ -	$ 3,329
2	Metro Matters Rollover	$ 4,836	$ -	$ -	$ -	$ -	$ -	$ 4,836	$ -	$ 4,836
3	**Total Project Expenditures**	$ 6,625	$ 955	$ 195	$ 195	$ 195	$ -	$ 8,165	$ -	$ 8,165

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Improvements to Coin Collection Machines
ID: CIP 094

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Diana Bowdry	The new design of coin vaults negates several problems with older units to reduce maintenance costs while increase operational efficiency.
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail	

Project Description:

This project will install new coin vaults in Automatic Fare Collection (AFC) rail equipment. Units that have reached the end of their life expectancy will be replaced.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,281	$ -	$ -	$ -	$ -	$ -	$ 2,281	$ -	$ 2,281
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,281	$ -	$ -	$ -	$ -	$ -	$ 2,281	$ -	$ 2,281

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Open Bankcard and Automatic Fare Collection Systems
ID: CIP 097

Project Information

Sponsor Dept.:	SMRT	**ELT Manager:**	Carol Kissal	**Operating Impact:**
Managing Dept.:	SMRT	**Proj. Manager:**	Ramon Abramovich	Open payment could result in lower fare collection costs as financial institutions issuing payment media assume processing functions.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will fund the open payment system which will allow the use of contactless fare media (e.g., credit cards and debit cards) as a form of payment on Metro. New payment system would supplement, not replace current payment systems. This project will result in 1700 target gates and 1600 fareboxes.

FY2012 Planned Activities:

1. Award contract 2. Development

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,546	$ 2,250	$ 360	$ 360	$ 360	$ 360	$ 5,236	$ -	$ 5,236
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,546	$ 2,250	$ 360	$ 360	$ 360	$ 360	$ 5,236	$ -	$ 5,236

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Police Emergency Management Equipment
ID: CIP 099

Project Information

Sponsor Dept.:	MTPD	**ELT Manager:**	Michael Taborn	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Peter G. LaPorte	Additional equipment will require greater operational support.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will fund 20 additional Emergency Tunnel Evacuation Carts and 20 additional Storage Cabinets at Metrorail stations. Also included is the procurement of 204 Automatic External Defibrillators.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 887	$ 197	$ 200	$ 203	$ 206	$ 274	$ 1,967	$ 210	$ 2,177
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 887	$ 197	$ 200	$ 203	$ 206	$ 274	$ 1,967	$ 210	$ 2,177

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: District 2 Police Substation & Training Facility
ID: CIP 101

Project Information

Sponsor Dept.:	MTPD	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas	Upon completion, this new facility will require allocation of additional operating resources.
Proj. Category:	Other Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

Design and construction of a new substation for MTPD District 2. Th eproject also includes a Police Training Facility.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,296	$ 2,524	$ 13,014	$ 544	$ -	$ -	$ 17,378	$ -	$ 17,378
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,296	$ 2,524	$ 13,014	$ 544	$ -	$ -	$ 17,378	$ -	$ 17,378

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Police Portable Radio Replacement
ID: CIP 103

Project Information

Sponsor Dept.:	MTPD	**ELT Manager:**	Michael Taborn	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Ronald Pavlik	This replacement equipment will prevent a lost of productivity due to out-of-service equipment and eliminate the need for custom parts.
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project will upgrade police radios to ensure optimal functionality inside the Metrorail tunnel system. As radios are phased out, they will be utilized as needed. Also, the project pays for replacements of radios damaged in the course of law enforcement operations.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 655	$ 667	$ 669	$ -	$ -	$ 668	$ 2,659	$ 800	$ 3,459
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 655	$ 667	$ 669	$ -	$ -	$ 668	$ 2,659	$ 800	$ 3,459

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Special Operations Division Facility
ID: CIP 106

Project Information

Sponsor Dept.:	MTPD	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas	TBD
Proj. Category:	Other Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

This project will replace the temporary facility used by Metro Transit Police Special Operations Division located in Suitland, MD near the Branch Avenue Station. This division includes the Special Resp onse Team, the Transit Anti-
Crime Team, the Auto Theft Unit, K-9 Teams, the Explosive Ordnance Disposal Team and the Motorcycle Unit.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 831	$ 1,626	$ 8,338	$ 341	$ -	$ -	$ 11,136	$ -	$ 11,136
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 831	$ 1,626	$ 8,338	$ 341	$ -	$ -	$ 11,136	$ -	$ 11,136

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Rehabilitation Tier 1: Dupont to Silver Spring
ID: CIP 107

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Kenneth Spain	Operating costs will be reduced as a result of facility rehabilitation.
Proj. Category:	Rail System Infrastructure Re	**Proj. Type:**	Rail	

Project Description:

This project is a rail line segment rehabilitation of the Red Line from DuPont to Silver Spring which includes 11 Stations with a route mileage of approximately 10 miles. Stations included in this contract were completed and put into service between 1976 and 1978. Work will include all systems and infrastructure to increase overall efficiency. This contract was approved by the Board on July 16, 2009. This project also includes additional budget and funding via ARRA funds, which are 100% reimbursable via that source.

FY2012 Planned Activities:

Platform edge repairs at 4 above ground stations. Ph2: Rehab traction power, electrical in switch board rooms, ETS, ATC, communication, track fastener, ventilation, air conditioner, canopy roof, platform, lighting, public address and CCTV.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 43,808	$ 65,480	$ 57,549	$ 38,905	$ -	$ -	$ 205,741	$ -	$ 205,741
2	Metro Matters Rollover	$ 19,931	$ -	$ -	$ -	$ -	$ -	$ 19,931	$ -	$ 19,931
3	**Total Project Expenditures**	$ 63,739	$ 65,480	$ 57,549	$ 38,905	$ -	$ -	$ 225,673	$ -	$ 225,673

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Rehabilitation Tier 1: Dupont to Grosvenor
ID: CIP 108

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Kenneth Spain
Proj. Category:	Rail System Infrastructure Re	**Proj. Type:**	Rail

Operating Impact:
Operating costs will be reduced as a result of facility rehabilitation.

Project Description:
This project is a rail line segment rehabilitation of the Red Line from DuPont to Grosvenor which includes 7 underground stations with a route mileage of approximately 9.6 miles. Stations in this project were completed and put in service between 1981 and 1984. Work will include all systems and infrastructure to increase overall efficiency.

FY2012 Planned Activities:
TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ 4,010	$ 58,213	$ 82,039	$ 86,978	$ 231,240	$ 68,183	$ 299,423
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ 4,010	$ 58,213	$ 82,039	$ 86,978	$ 231,240	$ 68,183	$ 299,423

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Rehabilitation Tier 1: National Airport to Stadium Armory
ID: CIP 110

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Richard Shiflet
Proj. Category:	Rail System Infrastructure Re	**Proj. Type:**	Rail

Operating Impact:
Operating costs will be reduced as a result of facility rehabilitation.

Project Description:
This project is a rail line segment rehabilitation of the Orange/Blue/Yellow Lines from National Airport to New Carrollton which includes 23 Stations with a route mileage of approximately 18.7 miles. Stations in this contract were completed and put into service between 1977 and 1978. Work will include all systems and infrastructure to increase overall efficiency.

FY2012 Planned Activities:
1. Phase 1 site specific work plans and administrative activities 2. Phase 2 automatic train control, traction power substations, tiebreaker stations, HVAC, ceiling tiles, ventilation fans, tunnel rehab, AC switchgear, escalators, elevators, communication, trackwork etc. for D84+49 to D286+25

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 24,179	$ 51,883	$ 59,868	$ 98,786	$ 85,118	$ 81,985	$ 401,820	$ -	$ 401,820
2	Metro Matters Rollover	$ 349	$ -	$ -	$ -	$ -	$ -	$ 349	$ -	$ 349
3	**Total Project Expenditures**	$ 24,528	$ 51,883	$ 59,868	$ 98,786	$ 85,118	$ 81,985	$ 402,168	$ -	$ 402,168

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Yard Fac. Repairs Tier 1: Alexandria, Brentwood, & New Carrollton
ID: CIP 116

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Mark Magnussen	Operating costs will be reduced as a result of facility rehabilitation.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Rail	

Project Description:

This project is a rail yard rehabilitation of Alexandria, Brentwood and New Carrollton Rail Yards that were put into service between 1976 and 1983. The contract will include items from the Inventory Database and other items identified by rail operations and maintenance, security and environmental to enhance operations and maintenance activities and provide a better work environment. The scope of work depending on the specific facility will vary. Work will include all systems and infrastructure to increase overall efficiency.

FY2012 Planned Activities:

1. Critical: Replace Glenmont and Branch Avenue Yard train washes 2. Alex Yd: Rehab walls, floors and ceilings; Repl shop/building eqpt, lighting, and elec systems. Rehab offices, locker rooms, and bathrooms; Rehab HVAC, plumbing fixtures; Upgrade security and PA; Inst control tower fire escape; Rehab pavement, fences, lightening, and overhaul fire hydrants.

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 0	$ 1,499	$ 29,777	$ 29,777	$ 45,748	$ 28,798	$ 135,598	$ 28,691	$ 164,289
2	Metro Matters Rollover	$ 297	$ -	$ -	$ -	$ -	$ -	$ 297	$ -	$ 297
3	**Total Project Expenditures**	$ 297	$ 1,499	$ 29,777	$ 29,777	$ 45,748	$ 28,798	$ 135,895	$ 28,691	$ 164,585

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Garage Facility Repairs Tier 1: Western, Northern, and Landover
ID: CIP 119

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Arthur Noyes	Operating costs will be reduced as a result of facility rehabilitation.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus	

Project Description:

This project is a bus facility rehabilitation of Western, Northern, and Landover bus garages and other auxiliary facilities, including Metro Supply Facility, Landover Open Storage and Blair Road Support Shop. The facilities were originally put in service between 1906 and 1989. Work will include rehabilitation of all systems and infrastructure to increase overall efficiency.

FY2012 Planned Activities:

Complete remaining final design and remaining Ph 1 Northern Bus Garage; Rehab Ph 2 at Western Bus Garage

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 18,982	$ 25,947	$ 30,845	$ 32,237	$ 19,800	$ 17,250	$ 145,060	$ -	$ 145,060
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 18,982	$ 25,947	$ 30,845	$ 32,237	$ 19,800	$ 17,250	$ 145,060	$ -	$ 145,060

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Preventive Maintenance
ID: CIP 125

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	TBD	The capital budget will subsidize these activities reducing the impact to the operating budget.
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail	

Project Description:

This project will provide preventive maintenance on rail cars, subsidizing the operating budget. To perform major overhaul, rebuild and remanufacturing of railcar components and systems at scheduled duty-cycle intervals. This provides for major maintenance at intervals other then the 20-year mid-life overhaul. This includes brake, truck traction motor, power supplies, HVAC, vital and non-vital relays and other systems. Quantity of rail cars needed.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012 (Forecast)	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 20,861	$ -	$ -	$ -	$ -	$ -	$ 20,861	$ -	$ 20,861
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 20,861	$ -	$ -	$ -	$ -	$ -	$ 20,861	$ -	$ 20,861

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Fin. Planning, Proj. Administration, and System Wide Infra. Upgrades
ID: CIP 126

Project Information

Sponsor Dept.:	OMBS	**ELT Manager:**	Carol Kissal	**Operating Impact:**
Managing Dept.:	OMBS	**Proj. Manager:**	TBD	This will require additional contracted labor.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

This project provides procurement and consultant support for bus and rail maintenance not included in the rail rehabilitation nor Bus Tier contracts. Planning for the multiyear capital program.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012 (Forecast)	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,165	$ 1,065	$ 2,099	$ 2,099	$ 2,099	$ 2,099	$ 11,625	$ 6,888	$ 18,513
2	Metro Matters Rollover	$ 1,169	$ -	$ -	$ -	$ -	$ -	$ 1,169	$ -	$ 1,169
3	**Total Project Expenditures**	$ 3,334	$ 1,065	$ 2,099	$ 2,099	$ 2,099	$ 2,099	$ 12,794	$ 6,888	$ 19,682

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Support Equipment - MTPD
ID: CIP 127

Project Information

Sponsor Dept.:	MTPD	**ELT Manager:**	Michael Taborn	**Operating Impact:**
Managing Dept.:	MTPD	**Proj. Manager:**	Ronald Pavlik	Newer equipment will require less maintenance and have a lower overall operating budget impact.
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

This project will fund the replace of damaged or to upgrade law enforcement equipment used for patrols, criminal investigations, surveillance and training. The project will also to provide secure equipment storage space.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ 244	$ 1,067	$ 1,063	$ 1,062	$ 3,436	$ 1,080	$ 4,516
2	Metro Matters Rollover	$ 1,725	$ 1,030	$ 815	$ -	$ -	$ -	$ 3,570	$ -	$ 3,570
3	**Total Project Expenditures**	$ 1,725	$ 1,030	$ 1,060	$ 1,067	$ 1,063	$ 1,062	$ 7,006	$ 1,080	$ 8,086

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Credit Facility
ID: CIP 131

Project Information

Sponsor Dept.:	TRES	**ELT Manager:**	Carol Kissal	**Operating Impact:**
Managing Dept.:	TRES	**Proj. Manager:**	Melissa Lee	None.
Proj. Category:	Program Management	**Proj. Type:**	Bus/Rail	

Project Description:

This project will fund the interest incurred on short-term borrowing.

FY2012 Planned Activities:

Evaluate and manage short-term borrowing requirements. Borrowing Costs

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 4,900	$ 5,390	$ 6,000	$ 6,610	$ 6,500	$ 6,500	$ 35,900	$ 7,000	$ 42,900
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 4,900	$ 5,390	$ 6,000	$ 6,610	$ 6,500	$ 6,500	$ 35,900	$ 7,000	$ 42,900

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Elevator/Escalator Repairables
ID: CIP 132

Project Information

Sponsor Dept.:	ELES	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ELES	**Proj. Manager:**	Ron Pittman	Newer equipment will require less maintenance and have a lower overall impact, in addition to utility savings.
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail	

Project Description:

This project will provide for the capital repairs, upgrades, and replacement components for those beyond repair for elevators and escalators.

FY2012 Planned Activities:

Repair of 121 Brake Boards, refurbish 1100 escalator steps, 400 new Fujitec steps, refurbish 25 reducers, replacement of 40 units of glass on escalators and elevators, replacement of 50 escalator handrails, heavy repair to 6 escalators

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,277	$ 4,825	$ 4,800	$ 4,800	$ 4,800	$ 4,800	$ 27,302	$ 4,800	$ 32,102
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 3,277	$ 4,825	$ 4,800	$ 4,800	$ 4,800	$ 4,800	$ 27,302	$ 4,800	$ 32,102

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Wayside Work Equipment
ID: CIP 133

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Nicolas Dimitracopoulos	Additional system components will require maintenance support.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This project will install a safety signaling system at rail portals and other locations to alert personnel to approaching trains.

FY2012 Planned Activities:

1. Contractor develops design and orders long lead equipment 2. Equipment installation as prioritized

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,285	$ 4,825	$ 5,149	$ 2,066	$ 1,542	$ -	$ 15,866	$ -	$ 15,866
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,285	$ 4,825	$ 5,149	$ 2,066	$ 1,542	$ -	$ 15,866	$ -	$ 15,866

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Train Control Signal
ID: CIP 135

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	TBD	None.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This project funds the initial engineering support for analysis of the train control signaling system.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,031	$ 5,347	$ 4,153	$ 2,583	$ 1,028	$ 1,028	$ 15,170	$ -	$ 15,170
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,031	$ 5,347	$ 4,153	$ 2,583	$ 1,028	$ 1,028	$ 15,170	$ -	$ 15,170

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: FCC Radio Frequency Communication Changes
ID: CIP 136

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	Nicolas Dimitracopoulos	Maintenance costs may increase due to greater number of above ground antenna sites.
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This project will meet the new FCC "narrow banding" requirement that affects the agency's UHF radio system. The primary impact is to the infrastructure equipment (as opposed to the subscriber equipment - handheld and mobile radios).

FY2012 Planned Activities:

1. Contractor calculates narrow banding effect on CRCS coverage. Defines needs for remote RF sites 2. Specify eqpt and system configuration; Obtain above ground antenna sites

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 251	$ 1,772	$ 10,602	$ 9,298	$ -	$ -	$ 21,923	$ -	$ 21,923
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 251	$ 1,772	$ 10,602	$ 9,298	$ -	$ -	$ 21,923	$ -	$ 21,923

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Preventive Maintenance
ID: CIP 137

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa
Managing Dept.:	BUS	**Proj. Manager:**	TBD
Proj. Category:	Vehicles/Vehicle Parts	**Proj. Type:**	Bus

Operating Impact:
Cost to maintain new equipment should be the same as maintaining existing equipment.

Project Description:
This project will provide preventive maintenance on buses, subsidizing the operating budget.

FY2012 Planned Activities:
TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 11,471	$ -	$ -	$ -	$ -	$ -	$ 11,471	$ -	$ 11,471
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 11,471	$ -	$ -	$ -	$ -	$ -	$ 11,471	$ -	$ 11,471

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: System-wide Infrastructure Rehabilitation
ID: CIP 138

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek
Managing Dept.:	ESVC	**Proj. Manager:**	Hiten Patel
Proj. Category:	Passenger Facilities	**Proj. Type:**	Rail

Operating Impact:
Modest increase of infrastructure maintenance is offset by expected reduction of breakdowns and repair costs

Project Description:
This project includes completion of various system infrastructure rehabilitation contracts currently underway.

FY2012 Planned Activities:
FI5583: Begin negotiations for project close out FN5068: Correct undersized standpipes on 32 systems. FP7026: Restore Franconia-Springfield and Huntington (South) garages and resolve all claims FQ9020: Complete railcar comm control panels

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 26,487	$ 46,656	$ 24,400	$ 5,573	$ -	$ -	$ 103,115	$ -	$ 103,115
2	Metro Matters Rollover	$ 23,731	$ 3,857	$ 284	$ -	$ -	$ -	$ 27,872	$ -	$ 27,872
3	**Total Project Expenditures**	$ 50,218	$ 50,513	$ 24,684	$ 5,573	$ -	$ -	$ 130,987	$ -	$ 130,987

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Replace GRS Track Circuits
ID: CIP 139-06

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Because of the susceptibility to pulse-type parasitic oscillation that can cause a loss of train detection by the Generation 2 General Railway Signal Company audio frequency track circuit modules, this program will establish a program to permanently remove from service all of these modules within the Metrorail system

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 5,599	$ 15,901	$ 24,177	$ 12,923	$ 1,400	$ -	$ 59,999	$ -	$ 59,999
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 5,599	$ 15,901	$ 24,177	$ 12,923	$ 1,400	$ -	$ 59,999	$ -	$ 59,999

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Inspec Procedure-Track Circuit
ID: CIP 139-07

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This program will establish periodic inspection and maintenance procedures to examine all audio frequency track circuit modules within the Metrorail system to identify and remove from service any modules that exhibit pulse-type parasitic oscillation.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Tech Bulletin & Safety Info
ID: CIP 139-08

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

This program will enable to review the process by which Metrorail technical bulletins and other safety information are provided to employees and revise that process as necessary to ensure that (1) employees have received the information intended for them, (2) employees understand the actions to be taken in response to the information, and (3) employees take the appropriate actions.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Remove Unnecessary Wayside Com
ID: CIP 139-09

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Completely remove the unnecessary Metrorail wayside maintenance communication system to eliminate its potential for interfering with the proper functioning of the train control system.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,001	$ 4,515	$ 3,909	$ -	$ -	$ -	$ 10,425	$ -	$ 10,425
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,001	$ 4,515	$ 3,909	$ -	$ -	$ -	$ 10,425	$ -	$ 10,425

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: NTSB ATC System Safety Anlysis
ID: CIP 139-10

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Conduct a comprehensive safety analysis of the Metrorail automatic train control system to evaluate all foreseeable failures of this system that could result in a loss of train separation, and work with your train control equipment manufacturers to address in that analysis all potential failure modes that could cause a loss of train detection, including parasitic oscillation, cable faults and placement, and corrugated rail.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,750	$ 3,501	$ 1,750	$ -	$ -	$ -	$ 7,001	$ -	$ 7,001
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,750	$ 3,501	$ 1,750	$ -	$ -	$ -	$ 7,001	$ -	$ 7,001

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Dsgn/Oper/Maint Poten. Failure
ID: CIP 139-11

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Based on the Safety Analysis, incorporate the design, operational and maintenance controls necessary to address potential failures in the ATC system.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ 17,513	$ 43,783	$ 8,757	$ -	$ -	$ 70,053	$ -	$ 70,053
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ 17,513	$ 43,783	$ 8,757	$ -	$ -	$ 70,053	$ -	$ 70,053

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Cable Insulation Testing
ID: CIP 139-12

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Implement cable insulation resistance testing as part of the maintenance program

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 5,212	$ 7,816	$ 4,560	$ -	$ -	$ -	$ 17,588	$ -	$ 17,588
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 5,212	$ 7,816	$ 4,560	$ -	$ -	$ -	$ 17,588	$ -	$ 17,588

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: FTA Recommendation: TOC Audit
ID: CIP 139-13

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Work with the Tri-State Oversight Committee to satisfactorily address the recommendations contained in the Federal Transit Administration's March 4, 2010, final report of its audit of the Tri-State Oversight Committee and the Washington Metropolitan Area Transit Authority.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ 163	$ 63	$ 163	$ -	$ -	$ 389	$ -	$ 389
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ 163	$ 63	$ 163	$ -	$ -	$ 389	$ -	$ 389

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Periodic Compreh Data Review
ID: CIP 139-14

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

The safety department; representatives of the operations, maintenance, and engineering departments; and representatives of labor organizations will regularly review recorded operational data from Metrorail train onboard recorders and the Advanced Information Management system to identify safety issues and trends and share the results across all divisions of your organization.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 73	$ 98	$ 98	$ 24	$ -	$ -	$ 293	$ -	$ 293
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 73	$ 98	$ 98	$ 24	$ -	$ -	$ 293	$ -	$ 293

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Safety Reporting Prog & Review
ID: CIP 139-15

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Develop and implement a non-punitive safety reporting program to collect reports from employees in all divisions within your organization, and ensure that the safety department; representatives of the operations, maintenance, and engineering departments; and representatives of labor organizations regularly review these reports and share the results of those reviews across all divisions of your organization.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 98	$ 130	$ 130	$ 33	$ -	$ -	$ 391	$ -	$ 391
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 98	$ 130	$ 130	$ 33	$ -	$ -	$ 391	$ -	$ 391

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Hazard Identification & Resolu
ID: CIP 139-16

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Review the Hazard Identification and Resolution Matrix process in your system safety program plan to ensure that safety-critical systems such as the automatic train control system and its subsystem components are assigned appropriate levels of risk in light of the issues identified in this accident.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 122	$ 163	$ 163	$ 41	$ -	$ -	$ 489	$ -	$ 489
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 122	$ 163	$ 163	$ 41	$ -	$ -	$ 489	$ -	$ 489

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Audit and Open CAPs
ID: CIP 139-17

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Develop a formal process by which the general manager and managers responsible for Washington Metropolitan Area Transit Authority operations, maintenance, and engineering will periodically review, in collaboration with the chief safety officer, all safety audits and open corrective action plans, and modify policy, identify and commit resources, and initiate any other action necessary to ensure that the plans are adequately addressed and closed within the required time frame.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011 (Forecast)	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 73	$ 98	$ 98	$ 24	$ -	$ -	$ 293	$ -	$ 293
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 73	$ 98	$ 98	$ 24	$ -	$ -	$ 293	$ -	$ 293

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Onboard Event Recorders 1K/4K
ID: CIP 139-19

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Add onboard event recorders on 1k and 4k trains

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,258	$ 5,214	$ 3,257	$ -	$ -	$ -	$ 11,729	$ -	$ 11,729
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 3,258	$ 5,214	$ 3,257	$ -	$ -	$ -	$ 11,729	$ -	$ 11,729

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Program to Monitor Recorders
ID: CIP 139-20

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Develop and implement a program to monitor the recorders

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 782	$ 651	$ -	$ -	$ -	$ -	$ 1,433	$ -	$ 1,433
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 782	$ 651	$ -	$ -	$ -	$ -	$ 1,433	$ -	$ 1,433

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Examine Track Circuits
ID: CIP 139-P1

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:
Examine track circuits

FY2012 Planned Activities:
TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ 2,606	$ 7,818	$ -	$ -	$ -	$ 10,424	$ -	$ 10,424
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ 2,606	$ 7,818	$ -	$ -	$ -	$ 10,424	$ -	$ 10,424

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Elec Compo Peforming in TC Sys
ID: CIP 139-P2

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:
Develop a program to periodically determine that electronic components in the train control systems are performing within design tolerances.

FY2012 Planned Activities:
TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 349	$ 2,256	$ 1,303	$ -	$ -	$ -	$ 3,908	$ -	$ 3,908
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 349	$ 2,256	$ 1,303	$ -	$ -	$ -	$ 3,908	$ -	$ 3,908

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Redundancy of ATC
ID: CIP 139-P3

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Enhance the redundancy of the train control system.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Loss of Shunt Tools
ID: CIP 139-P4

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Implement the loss of shunt tool

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,003	$ 499	$ -	$ -	$ -	$ -	$ 1,503	$ -	$ 1,503
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,003	$ 499	$ -	$ -	$ -	$ -	$ 1,503	$ -	$ 1,503

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Enhanced Track Circuit Verifi
ID: CIP 139-P5

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Institutionalize and employ the enhanced track circuit verification test

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 500	$ 3,409	$ -	$ -	$ -	$ -	$ 3,909	$ -	$ 3,909
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 500	$ 3,409	$ -	$ -	$ -	$ -	$ 3,909	$ -	$ 3,909

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Replace power cables
ID: CIP 139-P6

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	Devintia Headen	TBD
Proj. Category:	Maintenance Equipment	**Proj. Type:**	Rail	

Project Description:

Replace power cables

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 5,213	$ 10,426	$ 10,424	$ 10,424	$ 10,423	$ 10,423	$ 57,333	$ 5,212	$ 62,545
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 5,213	$ 10,426	$ 10,424	$ 10,424	$ 10,423	$ 10,423	$ 57,333	$ 5,212	$ 62,545

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Mileage Based Asset Management
ID: CIP 140

Project Information

Sponsor Dept.:	CENV	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	IT	**Proj. Manager:**	TBD	TBD
Proj. Category:	Systems and Technology	**Proj. Type:**	Rail	

Project Description:

This project will fund the rail mileage based asset management system.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 2,379	$ 2,176	$ 2,671	$ 1,343	$ -	$ -	$ 8,569	$ -	$ 8,569
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 2,379	$ 2,176	$ 2,671	$ 1,343	$ -	$ -	$ 8,569	$ -	$ 8,569

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Cheverly Abutment
ID: CIP 141

Project Information

Sponsor Dept.:	ESVC	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	ESVC	**Proj. Manager:**	John Thomas	Speed restrictions currently in place at this location will be lifted and normal travel conditions will be restored.
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

This project provides funding for the design and construction of a wall that will provide long term protection for the Cheverly abutment on the Orange Line.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,195	$ -	$ -	$ -	$ -	$ -	$ 3,195	$ -	$ 3,195
2	Metro Matters Rollover	$ 4,212	$ -	$ -	$ -	$ -	$ -	$ 4,212	$ -	$ 4,212
3	**Total Project Expenditures**	$ 7,407	$ -	$ -	$ -	$ -	$ -	$ 7,407	$ -	$ 7,407

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Lifecycle Overhaul
ID: CIP 142

Project Information

Sponsor Dept.:	RAIL	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	RAIL	**Proj. Manager:**	TBD	TBD
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Rail	

Project Description:

This project provides upgrades to, repairs to, and maintenance of capital assets that provides additional value to a rail capital asset where the parts and/or the repair have a life of over one year.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 20,000	$ 20,800	$ 20,864	$ 20,932	$ 20,831	$ 20,831	$ 124,258	$ 20,831	$ 145,089
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 20,000	$ 20,800	$ 20,864	$ 20,932	$ 20,831	$ 20,831	$ 124,258	$ 20,831	$ 145,089

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Lifecycle Overhaul
ID: CIP 143

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	Jack Requa	**Operating Impact:**
Managing Dept.:	BUS	**Proj. Manager:**	TBD	TBD
Proj. Category:	Vehicles/ Vehicle Parts	**Proj. Type:**	Bus	

Project Description:

This project provides upgrades to, repairs to, and maintenance of capital assets that provides additional value to a bus capital asset where the parts and/or the repair have a life of over one year.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
		Forecast								
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 10,000	$ 10,715	$ 10,748	$ 10,783	$ 10,731	$ 10,731	$ 63,708	$ 10,731	$ 74,439
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 10,000	$ 10,715	$ 10,748	$ 10,783	$ 10,731	$ 10,731	$ 63,708	$ 10,731	$ 74,439

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Bus Operations Control Center
ID: CIP 144

Project Information

Sponsor Dept.:	BUS	**ELT Manager:**	TBD	**Operating Impact:**
Managing Dept.:	BUS	**Proj. Manager:**	TBD	TBD
Proj. Category:	Other Facilities	**Proj. Type:**	Bus	

Project Description:

The Bus Operations Control Center (BOCC) will be co-located with ROCC. The BOCC arranges bus bridges, bus shuttles because of elevator outages. This project will provide for additional space and equipment for a permanent
BOCC.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Metro Matters Rollover	$ 1,604	$ -	$ -	$ -	$ -	$ -	$ 1,604	$ -	$ 1,604
3	**Total Project Expenditures**	$ 1,604	$ -	$ -	$ -	$ -	$ -	$ 1,604	$ -	$ 1,604

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Rail Yard Hardening and Bus Security (NEW)
ID: CIP 145

Project Information

Sponsor Dept.:	MTPD	**ELT Manager:**	Michael Taborn	**Operating Impact:**
Managing Dept.:	MTPD	**Proj. Manager:**	Ronald Pavlik	TBD
Proj. Category:	Maintenance Facilities	**Proj. Type:**	Bus/Rail	

Project Description:

This project will provide for the hardening of various rail yards and enhance bus security. This project is funded by a special Department of Homeland Security Grant.

FY2012 Planned Activities:

TBD

Line	Project Expenditures	Forecast FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 3,000	$ 10,379	$ 5,188	$ -	$ -	$ -	$ 18,566	$ -	$ 18,566
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 3,000	$ 10,379	$ 5,188	$ -	$ -	$ -	$ 18,566	$ -	$ 18,566

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: Mainline No. 8 Switch Replacement Program (NEW)
ID: CIP 146

Project Information

Sponsor Dept.:	TSSM	**ELT Manager:**	David Kubicek	**Operating Impact:**
Managing Dept.:	TSSM	**Proj. Manager:**	Michael Brown	TBD
Proj. Category:	Track and Structures	**Proj. Type:**	Rail	

Project Description:

The additional funds requested in the project will fund additional personnel to replace the remaining mainline unguarded No. 8 turnouts in accordance with the NTSB's recommendation.

FY2012 Planned Activities:

Replace mainline No. 8 unguarded turnouts FY2012 Q1 - FY2012 Q4.

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 1,000	$ 5,331	$ -	$ -	$ -	$ -	$ 6,331	$ -	$ 6,331
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 1,000	$ 5,331	$ -	$ -	$ -	$ -	$ 6,331	$ -	$ 6,331

Washington Metropolitan Area Transit Authority

FY2012 Proposed Budget Book - Capital Improvement Program

Detailed Project Information

All Dollars in Thousands

Project: FBI National Electronic Countermeasures Program
ID: CIP 147

Project Information

Sponsor Dept.:	TBD	**ELT Manager:**	TBD	**Operating Impact:**
Managing Dept.:	TBD	**Proj. Manager:**	TBD	TBD
Proj. Category:	Systems and Technology	**Proj. Type:**	Bus/Rail	

Project Description:

This project Funds the purchase of equipment and training for participation in the Federal Bureau of Investigation (FBI) National Electronic Countermeasures (ECM) Program

FY2012 Planned Activities:

TBD

Line	Project Expenditures	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2011-16	FY2017	FY2011-17
			Forecast							
1	FY2012 Annual Work Plan CIP Budget (12/2010)	$ 351	$ -	$ -	$ -	$ -	$ -	$ 351	$ -	$ 351
2	Metro Matters Rollover	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	**Total Project Expenditures**	$ 351	$ -	$ -	$ -	$ -	$ -	$ 351	$ -	$ 351