

DVRPC FY2022 TIP for New Jersey

Regional Transit Program

Final Version

DRPA/PATCO

DB# DR2203 PATCO Fare Collection Equipment Upgrades NEW

AQCODE: M1 This project will upgrade all obsolete parts of PATCO's Fare Collection system to give the ability for PATCO riders to have "open payment" at all patco stations.

CMP:

Municipalities:	Various	Planning Center: None	
CIS Program Subcategory:		CIS Program Category:	
Project Manager:		IPD:	
Mileposts:		Sponsor: DRPA/PATCO	
Improvement Type:	Transit Improvements		Mapped: Y

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
EC	DRPA	1.567	0.500	0.500	1.000						
EC	SECT 5337	6.269	2.000	2.000	4.000						
Fiscal Year Total		7.836	2.500	2.500	5.000						
Total First Four Years:				17.836	Total Later Fiscal Years:						

DB# DR008 Electrical Cable Replacement

AQCODE: M6 This program will provide for systemwide replacement of electrical cable to improve reliability and fire resistance.

CMP: Not SOV Capacity Adding

Municipalities:	Various	Planning Center: None	
CIS Program Subcategory:	DRPA Improvement	CIS Program Category:	Mass Transit Assets
Project Manager:	DRPA/PATCO	IPD:	
Mileposts:		Sponsor: DRPA/PATCO	
Improvement Type:	Transit Improvements		Mapped: N

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	0.050	0.940	0.240	0.240	1.600	1.600	0.700			
ERC	SECT 5337	0.200	3.760	0.960	0.960	6.400	6.400	2.800			
Fiscal Year Total		0.250	4.700	1.200	1.200	8.000	8.000	3.500			
Total First Four Years:				7.350	Total Later Fiscal Years:						19.500

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DB# DR2302 Embankment Restoration, Drainage Improvements & Retaining Walls Rehabilitation

AQCODE: M9 This program will address embankment restoration to prevent erosion and preserve drainage control. Project includes fencing and retaining wall rehabilitation or replacement.

CMP:
 Municipalities: Planning Center: None
 CIS Program Subcategory: CIS Program Category:
 Project Manager: DeVillasanta, Steve IPD:
 Mileposts: Sponsor: DRPA/PATCO
 Improvement Type: **Mapped: Y**

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
CON	DRPA				0.880	0.200					
CON	SECT 5337				3.520	0.800					
Fiscal Year Total					4.400	1.000					
		Total First Four Years: 4.400				Total Later Fiscal Years: 1.000					

DB# DR1501 PATCO Interlocking & Track Rehabilitation

AQCODE: M9 This program includes rehabilitation and replacement of interlockings, rail bed, and other rail improvements to ensure overall system safety, reliability, and minimal service disruptions.

CMP: Not SOV Capacity Adding
 Municipalities: Various Planning Center: None
 CIS Program Subcategory: DRPA Improvement CIS Program Category: Mass Transit Assets
 Project Manager: DRPA/PATCO IPD:
 Mileposts: Sponsor: DRPA/PATCO
 Improvement Type: Transit Improvements **Mapped: N**
 This project may be suitable for ITS treatments.

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
EC	DRPA	0.050	0.040	0.060	0.260	0.260	0.460				
EC	SECT 5307	0.200	0.160	0.240	1.040	1.040	1.840				
Fiscal Year Total		0.250	0.200	0.300	1.300	1.300	2.300				
		Total First Four Years: 2.050				Total Later Fiscal Years: 3.600					

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DB# DR2008 PATCO Rail Replacement - Ferry Avenue to Broadway

AQCODE: M9

This project includes construction activities which include the replacement of approximately 40,000 linear feet of rail between Ferry Avenue and Broadway stations. The project will replace original running rail that is at the end of its useful life.

CMP: Various Planning Center: None
 Municipalities: Various Planning Center: None
 CIS Program Subcategory: Mike Howard CIS Program Category:
 Project Manager: Mike Howard IPD:
 Mileposts: Sponsor: DRPA/PATCO
 Improvement Type: Transit Improvements **Mapped: Y**

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
EC	DRPA	0.200	0.100						0.250	0.625	0.625
EC	SECT 5337	0.800	0.400						1.000	2.500	2.500
Fiscal Year Total		1.000	0.500						1.250	3.125	3.125
		Total First Four Years: 1.500				Total Later Fiscal Years: 7.500					

DB# DR1803 PATCO Station Platform Rehabilitation

MRPID: FD

AQCODE: M8

Project will include planning, design, and reconstruction of PATCO Station Platforms. Work will include rehabilitation as well as replacement of concrete platforms and supporting structures including concrete and steel repairs.

CMP: Not SOV Capacity Adding Adding Subcorr(s): 2C, 5C
 Municipalities: Cherry Hill Township Planning Center: None
 CIS Program Subcategory: DRPA/PATCO CIS Program Category: Mass Transit Assests
 Project Manager: DRPA/PATCO IPD:
 Mileposts: N/A Sponsor: DRPA/PATCO
 Improvement Type: Transit Improvements **Mapped: Y**

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	1.190	1.000	1.340	0.400	0.520	0.000	0.000	1.000	1.000	1.000
ERC	SECT 5307	4.761	4.000	5.360	1.600	2.080	0.000	0.000	4.000	4.000	4.000
Fiscal Year Total		5.951	5.000	6.700	2.000	2.600	0.000	0.000	5.000	5.000	5.000
		Total First Four Years: 19.651				Total Later Fiscal Years: 17.600					

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DB# DR2006 PATCO Stations Modernizations

AQCODE: M8

Modernize all commuter stations and extend the useful life of the stations and their major components. This project will enhance the experience for riders and motorists who use the facilities and enhance the appeal to nearby residents, businesses, and property.

CMP: Various
 Municipalities: Various
 CIS Program Subcategory: Planning Center: None
 Project Manager: Nicole Ochroch
 Mileposts: IPD:
 Improvement Type: Transit Improvements
 Sponsor: DRPA/PATCO
Mapped: Y

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)						
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
EC	DRPA	0.100	0.100	0.100	0.100	0.400	0.250	0.000	0.125	0.625	1.250	
EC	SECT 5337	0.400	0.400	0.400	0.400	1.600	1.000	0.000	0.500	2.500	5.000	
Fiscal Year Total		0.500	0.500	0.500	0.500	2.000	1.250	0.000	0.625	3.125	6.250	
Total First Four Years:				2.000	Total Later Fiscal Years:				13.250			

DB# D1911 PATCO Track Resurfacing & Rail Profile Grinding

AQCODE: M9

This project involves adjusting the track to eliminate minor horizontal and vertical shifts that impact ride quality. Work also includes the replacement of rail ties, ballast cleaning, and improvements to the shoulder that impact the track.

CMP: Not SOV Capacity Adding
 Municipalities: Various
 CIS Program Subcategory: Planning Center: None
 Project Manager: DRPA/PATCO
 Mileposts: IPD:
 Improvement Type: Transit Improvements
 Sponsor: DRPA/PATCO
Mapped: Y

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)						
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
CON	DRPA		0.010	0.010	0.020	0.020	0.100			0.050	0.050	
CON	SECT 5307		0.040	0.040	0.080	0.080	0.400			0.200	0.200	
Fiscal Year Total			0.050	0.050	0.100	0.100	0.500			0.250	0.250	
Total First Four Years:				0.200	Total Later Fiscal Years:				1.100			

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DB# DR2007 PATCO Viaduct Preservation Project

AQCODE: M9

The purpose of this project is to improve and protect the Collingswood and Westmont viaducts and will extend the useful life of this portion of the PATCO infrastructure.

CMP: Various Planning Center: None
 Municipalities: Various Planning Center: None
 CIS Program Subcategory: CIS Program Category:
 Project Manager: Ed Montgomery IPD:
 Mileposts: Sponsor: DRPA/PATCO
 Improvement Type: Transit Improvements **Mapped: Y**

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)						
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
EC	DRPA	0.200	0.900	0.500				0.250	0.375	0.625		
EC	SECT 5337	0.800	3.600	2.000				1.000	1.500	2.500		
Fiscal Year Total		1.000	4.500	2.500				1.250	1.875	3.125		
Total First Four Years:				8.000	Total Later Fiscal Years:				6.250			

DB# D1305 Pedestrian Bridge and Tunnel Rehabilitation

AQCODE: A2

This project will provide for the planning, design, and construction to rehabilitate Pedestrian Bridges and Tunnels. The projects will allow for preventive repairs of bridges and tunnels owned by PATCO, including structural steel and concrete repairs, installation of protective coatings, miscellaneous steel repair, joint filler and spot paint.

CMP: Not SOV Capacity Adding Adding Subcorr(s): 5B, 5C
 Municipalities: Various Planning Center: None
 CIS Program Subcategory: DRPA Improvement CIS Program Category: Mass Transit Assets
 Project Manager: DRPA/PATCO IPD:
 Mileposts: Sponsor: DRPA/PATCO
 Improvement Type: Transit Improvements **Mapped: Y**

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)						
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
EC	DRPA					0.000	0.700	0.900				
EC	SECT 5337					0.000	2.800	3.600				
Fiscal Year Total						0.000	3.500	4.500				
Total First Four Years:					Total Later Fiscal Years:				8.000			

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DB# DR034 Preventive Maintenance

AQCODE: M3 This project will provide for preventive maintenance expenses pertaining to activities performed on vehicles and facilities.

CMP: Not SOV Capacity Adding
 Municipalities: Various
 CIS Program Subcategory: DRPA Improvement
 Project Manager: DRPA/PATCO
 Mileposts:
 Improvement Type: Transit Improvements

Planning Center: None
 CIS Program Category: Mass Transit Assets
 IPD:
 Sponsor: DRPA/PATCO

Mapped: N

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
ERC	SECT 5307	0.700	0.700	0.700	0.050	0.050	0.050	0.050	0.050	0.700	0.700
ERC	SECT 5337	0.600	0.600	0.600	1.250	1.250	1.250	1.250	1.250	0.600	0.600
ERC	SECT 5340	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
Fiscal Year Total		1.975	1.975	1.975	1.975	1.975	1.975	1.975	1.975	1.975	1.975
Total First Four Years:				7.900	Total Later Fiscal Years:						11.850

DB# D1912 Rehabilitation of PATCO Bridges

MRPID: FB

AQCODE: M9 Project will consist of the planning, design, and construction to rehabilitate PATCO Bridges. Work will include concrete and steel repairs, bearing replacement, column repairs, drainage, and abutment/wingwall repairs.

CMP: Not SOV Capacity Adding
 Municipalities: Various
 CIS Program Subcategory: DRPA Improvement
 Project Manager: DRPA/PATCO
 Mileposts:
 Improvement Type: Transit Improvements

Planning Center: None
 CIS Program Category: Local System Support
 IPD:
 Sponsor: DRPA/PATCO

Mapped: Y

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	0.200	0.200	0.200	0.100	0.200	0.100	0.100		0.375	0.500
ERC	SECT 5337	0.800	0.800	0.800	0.400	0.800	0.400	0.400		1.500	2.000
Fiscal Year Total		1.000	1.000	1.000	0.500	1.000	0.500	0.500		1.875	2.500
Total First Four Years:				3.500	Total Later Fiscal Years:						6.375

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DB# DR038 Relocation of Center Tower/SCADA Modernization

AQCODE: M8

This program will provide for the fit-out of the second floor of an existing Administration and Maintenance building at Lindenwold for the purpose of relocating Center Tower from Camden to Lindenwold. Additionally, it will provide for the purchase and installation of new equipment for centralized train control, traction power control, and integrated customer service/communication. This project contains ITS elements and Supervisory Control and Data Acquisition (SCADA) modernization.

CMP: Not SOV Capacity Adding Adding Subcorr(s): 5C
 Municipalities: Various Planning Center: None
 CIS Program Subcategory: DRPA Improvement CIS Program Category: Mass Transit Assets
 Project Manager: DRPA/PATCO IPD:
 Mileposts: Sponsor: DRPA/PATCO
 Improvement Type: Transit Improvements **Mapped: Y**
 This project contains ITS elements.

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	0.700									
ERC	SECT 5337	2.800									
Fiscal Year Total		3.500									
		Total First Four Years: 3.500				Total Later Fiscal Years:					

DB# DR1801 Reopening of Franklin Square MRPID: CF

AQCODE: 2025M

The project will repair, update, and enhance the currently closed Franklin Square station in the City of Philadelphia in order to re-open it for full operation. Improvements will include ADA accessibility, structural, electrical, plumbing, communication, signal and security elements.

CMP: Not SOV Capacity Adding
 Municipalities: Various Planning Center: None
 CIS Program Subcategory: DRPA Improvement CIS Program Category: Mass Transit Assets
 Project Manager: Brigitte Kordzian IPD:
 Mileposts: N/A Sponsor: DRPA/PATCO
 Improvement Type: Transit Improvements **Mapped: Y**

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
CON	BUILD	1.053									
Fiscal Year Total		1.053									
		Total First Four Years: 1.053				Total Later Fiscal Years:					

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DB# DR2301 Replacement of Track Ties

AQCODE: M9 This project will involve the replacement of cracked/broken concrete ties, split/decaying wood ties, and decaying embedded block ties throughout the PATCO track Right-of-Way.

CMP:
Municipalities: Planning Center: None
CIS Program Subcategory: CIS Program Category:
Project Manager: Sparacio, Jonathan **IPD:**
Mileposts: Sponsor: DRPA/PATCO
Improvement Type: **Mapped: Y**

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
DES	DRPA		0.015								
CON	DRPA			0.785	0.200	0.400	0.200				
DES	SECT 5337		0.060								
CON	SECT 5337			3.140	0.800	1.600	0.800				
Fiscal Year Total			0.075	3.925	1.000	2.000	1.000				
Total First Four Years:				5.000	Total Later Fiscal Years:				3.000		

DB# DR019 Smoke and Fire Control

AQCODE: M6 This program will provide smoke and fire control for evacuation of patrons in emergencies and ventilation improvements.

CMP: Not SOV Capacity Adding
Municipalities: Various **Planning Center:** None
CIS Program Subcategory: DRPA Improvement **CIS Program Category:** Mass Transit Assets
Project Manager: DRPA/PATCO **IPD:**
Mileposts: Sponsor: DRPA/PATCO
Improvement Type: Transit Improvements **Mapped: N**
 This project may be suitable for ITS treatments.

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	0.050	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
ERC	SECT 5337	0.200	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400
Fiscal Year Total		0.250	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Total First Four Years:				1.750	Total Later Fiscal Years:				3.000		

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DB# DR1802 Subway Structures Renovation

AQCODE: M8

This program will provide for preventive repairs of pedestrian bridges, tunnels, subway stations, pump rooms owned by PATCO including but not limited to miscellaneous steel repair, concrete repair, joint filler, painting, waterproofing, and tunnel leakage mitigation throughout the PATCO High Speed Line System.

CMP: Not SOV Capacity Adding

Municipalities: Various Planning Center: Metropolitan Center

CIS Program Subcategory: DRPA Improvement CIS Program Category: Mass Transit Assets

Project Manager: DRPA/PATCO IPD:

Mileposts: N/A Sponsor: DRPA/PATCO

Improvement Type: Transit Improvements Mapped: Y

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	0.600	0.410	0.860	0.960	0.350					
ERC	SECT 5337	2.400	1.640	3.440	3.840	1.400					
Fiscal Year Total		3.000	2.050	4.300	4.800	1.750					
Total First Four Years:				14.150	Total Later Fiscal Years:						1.750

DB# DR15001A Track Drainage Improvements-Cuthbert & Osage

AQCODE: M9

This project will involve the rebuilding of the track bed, removal of fouled ballast and installation of new track drains. Rebuilding of the track and installation of new drains is intended to address the profile issues PATCO has experienced at these locations for the last 20 years.

CMP:

Municipalities: Various Planning Center: None

CIS Program Subcategory: CIS Program Category:

Project Manager: Howard, Mike IPD:

Mileposts: Sponsor: DRPA/PATCO

Improvement Type: Transit Improvements Mapped: Y

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
DES	DRPA			0.400							
CON	DRPA				0.500	0.710	0.740	1.200			
PD	DRPA		0.400								
CON	SECT 5307				2.000	2.040	2.960	4.800			
CON	SECT 5337					0.800					
DES	SECT 5337			1.600							
PD	SECT 5337		1.600								
Fiscal Year Total			2.000	2.000	2.500	3.550	3.700	6.000			
Total First Four Years:				6.500	Total Later Fiscal Years:						13.250

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DB# DR036 Transit Enhancements

AQCODE: X12 This program will support transit enhancements.

CMP: Not SOV Capacity Adding

Municipalities: Various

Planning Center: None

CIS Program Subcategory: DRPA Improvement

CIS Program Category: Mass Transit Assets

Project Manager: DRPA/PATCO

IPD:

Mileposts:

Sponsor: DRPA/PATCO

Improvement Type: Transit Improvements

Mapped: N

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)					
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ERC	DRPA	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
ERC	SECT 5307	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
Fiscal Year Total		0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
Total First Four Years:				0.280	Total Later Fiscal Years:						0.420

Total for Various:

27.635	25.620	27.520	25.845	25.845	19.795	16.045	15.170	17.795	22.795		
Total First Four Years:				106.620	Total Later Fiscal Years:						117.445