

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Concrete Sea Wall East of Harrison Car Maintenance Facility

DBNUM: PA1424

PANYNJ will receive funding to construct a concrete sea wall to protect PATH tracks near the Passaic River. The total eligible amount is \$ 22,421,300. The FTA share is \$ 16,815,975. The PANYNJ share is \$ 5,605,325.



Counties:

Hudson

Municipalities:

Harrison

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANYNJ

Air Quality Code:

O9 (Exempt)

Est. Total Project Cost:

(Million) Not Available

FY 2014 - 2017 TIP Cost: (Million) \$22.421

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANY&NJ		\$5.605			
EC	* SECT 5324		\$16.816			
			\$22.421			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Ductbanks

DBNUM: PA1414

Funding is provided for ductbank replacement projects. Replacement of the PATH Duct Bank system associated power cables in Tunnels A, Tunnel B, Tunnel E1, and Tunnel F1. The tunnels were completely flooded to the crown in some areas and the ductbanks were partially or completely submerged in salt water. The existing ductbanks were infiltrated by salt water causing them to deteriorate and due to the age of the ductbanks, salt water was able to seep in to where the cables are located. The existing ductbanks must be demolished and new ductbanks must be built in order to protect the power cables. The existing ductbanks have reached the end of their useful life and are in stages of collapse. The construction of new concrete ductbanks will provide more protection to the cables, from water and other impacts, allowing proper operation of the system.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT6 (Exempt)

Est. Total Project Cost:

(Million) \$123.750

FY 2014 - 2017 TIP Cost: (Million) \$123.470

Unconstrained
Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$12.345				
CON	* SECT 5324	\$111.125				
		\$123.470				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Equipment Purchases

DBNUM: PA1421

This program element encompasses equipment purchases in FFY 2014 and FFY 2015. The equipment will help PATH perform repairs and inspect track that was damaged during Superstorm Sandy and to provide backup power in case of future outages. Equipment will be stored in various yards system wide (C-Yard in Jersey City, South St. Yard in Newark) and will be maintained at the Harrison Car Maintenance Facility (HCMF). Pumps are located throughout the PATH system including Tunnel A&B, Tunnel E&F, Caisson 1,2,3 Hoboken Station Elevator Pit and Exchange Place Station. PS&C Component inventory will be used at various substations and in Caisson 3 Lower Signal Relay Room. Hackensack River Bridge Emergency Fuel Tank will be located at the Hackensack River Bridge in Jersey City. Emergency diesel generators will be at HCMF and C Yard.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

MT10 (Exempt)

Est. Total Project Cost:

(Million) \$102.000

FY 2014 - 2017 TIP Cost: (Million) \$130.936

Unconstrained
Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$11.910	\$1.184			
CON	* SECT 5324	\$107.190	\$10.652			
		\$119.100	\$11.836			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Equipment Purchases

DBNUM: PA1421

Funding is provided for equipment purchases. The funds will be used to purchase equipment, generators, compressor plants, inventory stock components to minimize the restoration of full service in the event of a storm similar to Sandy.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

MT10 (Exempt)

Est. Total Project Cost:

(Million) \$102.000

FY 2014 - 2017 TIP Cost: (Million) \$117.935

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$10.700				
CON	* SECT 5324	\$107.235				
		\$117.935				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Equipment Purchases

DBNUM: PA1421

Funding is provided for equipment purchases. The funds will be used to purchase equipment, generators, compressor plants, inventory stock components to minimize the restoration of full service in the event of a storm similar to Sandy.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

MT10 (Exempt)

Est. Total Project Cost:

(Million) \$102.000

FY 2014 - 2017 TIP Cost: (Million) \$100.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$10.000				
CON	* SECT 5324	\$90.000				
		\$100.000				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Exchange Place, Newport Station, and Grove St. Station Head House
Protection

DBNUM: PA1422

PANYNJ will receive funding to flood-proof major above-ground PATH facilities and equipment to prevent flooding of underground assets. These sites were flooded during Hurricane Sandy and are currently protected by temporary barriers. The total eligible amount is \$49,446,200. The FTA share is \$ 37,084,650. The PA share is \$ 12,361,550.



Counties:

Hudson

Municipalities:

Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANYNJ

Air Quality Code:

O9 (Exempt)

Est. Total Project Cost:

(Million) Not Available

FY 2014 - 2017 TIP Cost: (Million) \$49.446

**Unconstrained
Information**

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANY&NJ		\$12.362			
EC	* SECT 5324		\$37.085			
			\$49.446			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Harrison Car Maintenance Facility Automatic Flood Barrier

DBNUM: PA1423

PANYNJ will receive funding to construct an automated flood barrier at the Harrison Car Maintenance Facility, which was significantly damaged by Hurricane Sandy. This site is currently protected by temporary barriers. Total eligible amount is \$ 19,815,200. The FTA share is \$ 14,861,400. The PANYNJ share is \$ 4,953,800.



Counties:

Hudson

Municipalities:

Harrison

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANYNJ

Air Quality Code:

O9 (Exempt)

Est. Total Project Cost:

(Million) Not Available

FY 2014 - 2017 TIP Cost: (Million) \$19.815

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANY&NJ		\$4.954			
EC	* SECT 5324		\$14.861			
			\$19.815			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Lifts

DBNUM: PA1416

This program element provides for the replacement of four lifts at the Harrison Car Maintenance Facility lift (HCMF). These in-ground lift in the service pits are original to the shop. They suffered severe water damage.



Counties:

Hudson

Municipalities:

Hoboken City Harrison Twp

Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$2.590

FY 2014 - 2017 TIP Cost: (Million) \$11.730

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$.258	\$.915			
CON	* SECT 5324	\$2.322	\$8.235			
		\$2.580	\$9.150			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Lifts

DBNUM: PA1416

Funding is provided for the replacement of the Harrison Car Maintenance Facility lift. The Harrison Car Maintenance Facility in-ground lift in the service pit which is original to the shop and suffered severe water damage.



Counties:

Hudson

Municipalities:

Hoboken City Harrison Twp

Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$2.590

FY 2014 - 2017 TIP Cost: (Million) \$2.480

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$.250				
CON	* SECT 5324	\$2.230				
		\$2.480				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

MacMillan-Bloedel Building Roof Replacement Project

DBNUM: PA1417

Funding is provided for the replacement of the roof of the MacMillan-Bloedel Building, which was damaged by high winds. The roof is 30ft x 40ft and was severely damaged. The MacMillan Bloedel is a building at the Consolidated Shop Yard in Jersey City used to store materials and equipment.



Counties:

Hudson

Municipalities:

Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$9.910

FY 2014 - 2017 TIP Cost: (Million) \$9.630

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$.980				
CON	* SECT 5324	\$8.650				
		\$9.630				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

MacMillan-Bloedel Building Roof/Architectural Repairs

DBNUM: PA1417

Funding is provided for the replacement of the roof of the MacMillan-Bloedel Building, which was damaged by high winds. The roof is 30ft x 40ft and was severely damaged. The MacMillan Bloedel is a building at the Consolidated Shop Yard in Jersey City used to store materials and equipment.



Counties:

Hudson

Municipalities:

Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$9.910

FY 2014 - 2017 TIP Cost: (Million) \$10.952

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$1.000				
CON	* SECT 5324	\$9.952				
		\$10.952				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Priority Protective Measures

DBNUM: PA1410

High priority protective measures to ensure PATH is well prepared for the upcoming hurricane season and provide protection to PATH facilities against flash floods and storm surges - measures to include: Stop Logs, Horizontal Deck, Sand Filled Barriers, Water Filled Barriers, Watertight Doors, Pumps, Generators and Fencing Area, Cast-in-Place Wall, Bin Blocks, and Hesco barriers.



Counties:

Hudson Essex

Municipalities:

Hoboken City Harrison Twp
Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$9.750

FY 2014 - 2017 TIP Cost: (Million) \$10.950

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$.294	\$.801			
CON	* SECT 5324	\$2.646	\$7.209			
		\$2.940	\$8.010			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Priority Protective Measures

DBNUM: PA1410

High priority protective measures to ensure PATH is well prepared for the upcoming 2013 hurricane season and provide protection to PATH facilities against flash floods and storm surges - measures to include: Stop Logs, Horizontal Deck, Sand Filled Barriers, Water Filled Barriers, Watertight Doors, Pumps, Generators and Fencing Area, CIP Wall.



Counties:

Hudson Essex

Municipalities:

Hoboken City Harrison Twp
Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$9.750

FY 2014 - 2017 TIP Cost: (Million) \$0.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* N/A	\$0.000				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Priority Protective Measures with Potential Environmental Impacts

DBNUM: PA1411

For high priority protective measures to ensure PATH is well prepared for future hurricane seasons and will provide protection to PATH facilities against flash floods and storm surges - measures to include: Concrete Bench (Exchange Place), Concrete Wall (West) Harrison Car Maintenance Facility, Bin Blocks (West) Harrison Car Maintenance Facility, Hesco Barrier Wall (East) Harrison Car Maintenance Facility, Concrete Wall (East) Harrison Car Maintenance Facility, cast-inplace walls at substations and bungalows



Counties:

Hudson

Municipalities:

Harrison Twp Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$11.250

FY 2014 - 2017 TIP Cost: (Million) \$11.250

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANY&NJ		\$1.125			
EC	* SECT 5324		\$10.125			
			\$11.250			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Priority Protective Measures with Potential Environmental Impacts

DBNUM: PA1411

For high priority protective measures to ensure PATH is well prepared for the upcoming 2013 hurricane season and will provide protection to PATH facilities against flash floods and storm surges - measures to include: Concrete Bench (Exchange Place), Concrete Wall (West) Harrison Car Maintenance Facility, Bin Blocks (West) Harrison Car Maintenance Facility, Hesco Barrier Wall (East) Harrison Car Maintenance Facility, Concrete Wall (East) Harrison Car Maintenance Facility.



Counties:

Hudson

Municipalities:

Harrison Twp Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$11.250

FY 2014 - 2017 TIP Cost: (Million) \$0.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* N/A	\$0.000				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Rail Rolling Stock Resiliency

DBNUM: PA1420

Funding is provided for rail rolling stock resiliency. The funds will be used to purchase property in Jersey City, NJ to construct new storage track locations to store rolling stock above the advisory flood elevation.



Counties:

Hudson

Municipalities:

Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

MT8 (Exempt)

Est. Total Project Cost:

(Million) \$10.000

FY 2014 - 2017 TIP Cost: (Million) \$9.740

Unconstrained
Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$.970				
CON	* SECT 5324	\$8.770				
		\$9.740				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Salt Mitigation

DBNUM: PA1412

Funding is provided for Salt Mitigation projects. Salt water infiltrated several parts of the PATH system. The impacted areas were originally washed down, but subsequent investigation has shown that salt water is still present and causing corrosion in many assets. The salt can only be removed with very high pressure and close proximity power washing. Initial inspections identified specific locations where salt water impacts are present, allowing necessary mitigation to begin with Tunnels E & F, which experienced the most damage. Surveys of the tunnels have been completed to quantify what needs to be replaced, cleaned, protected, etc. in Tunnel A, Tunnel B, Tunnel E, and Tunnel F to inform design and engineering work. This project provides approximately \$ 1.2 million for the one-year cost of weekend ferry service between the Paulus Hook Ferry Terminal in Jersey city and the World Financial Center Ferry Terminal in lower Manhattan, initiated on a trial basis to offer an additional transportation alternative for travelers affected by the weekend suspension of PATH service.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$15.000

FY 2014 - 2017 TIP Cost: (Million) \$343.500

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANY&NJ	\$5.000			\$4.350	
EC	* PANYNJ		\$15.000	\$10.000		
EC	* SECT 5324	\$45.000	\$135.000	\$90.000	\$39.150	
		\$50.000	\$150.000	\$100.000	\$43.500	

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Salt Mitigation

DBNUM: PA1412

Funding is provided for Salt Mitigation projects. Salt water infiltrated several parts of the PATH system. The impacted areas were originally washed down, but subsequent investigation has shown that salt water is still present and causing corrosion in many assets. The salt can only be removed with very high pressure and close proximity power washing. Initial inspections identified specific locations where salt water impacts are present, allowing necessary mitigation to begin with Tunnels E & F, which experienced the most damage. Surveys of the tunnels have been completed to quantify what needs to be replaced, cleaned, protected, etc. in Tunnel A, Tunnel B, Tunnel E, and Tunnel F to inform design and engineering work. This project provides approximately \$ 1.2 million for the one-year cost of weekend ferry service between the Paulus Hook Ferry Terminal in Jersey city and the World Financial Center Ferry Terminal in lower Manhattan, initiated on a trial basis to offer an additional transportation alternative for travelers affected by the weekend suspension of PATH service.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$15.000

FY 2014 - 2017 TIP Cost: (Million) \$100.500

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANYNJ	\$4.000	\$6.050			
EC	* SECT 5324	\$36.000	\$54.450			
		\$40.000	\$60.500			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Salt Mitigation

DBNUM: PA1412

Funding is provided for Salt Mitigation projects. Salt water infiltrated several parts of the PATH system. The impacted areas were originally washed down, but subsequent investigation has shown that salt water is still present and causing corrosion in many assets. The salt can only be removed with very high pressure and close proximity power washing. Below are specific locations where salt water impacts are present and mitigation is necessary. Work will begin with Tunnels E & F since they experienced most damage, but other locations are expected and are under investigation. Several teams will begin a survey of the tunnels to quantify what needs to be replaced, cleaned, protected, etc. Tunnel A, Tunnel B, Tunnel E, and Tunnel F. This project provides approximately \$1.2 million for the one-year cost of weekend ferry service between the Paulus Hook Ferry Terminal in Jersey City and the World Financial Center Ferry Terminal in lower Manhattan, initiated on a trial basis to offer an additional transportation alternative for travelers affected by the weekend suspension of PATH service.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$15.000

FY 2014 - 2017 TIP Cost: (Million) \$50.500

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANYNJ	\$4.600				
EC	* SECT 5324	\$45.900				
		\$50.500				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Salt Mitigation

DBNUM: PA1412

Funding is provided for Salt Mitigation projects. Salt water infiltrated several parts of the PATH system. The impacted areas were originally washed down, but subsequent investigation has shown that salt water is still present and causing corrosion in many assets. The salt can only be removed with very high pressure and close proximity power washing. Below are specific locations where salt water impacts are present and mitigation is necessary. Work will begin with Tunnels E & F since they experienced most damage, but other locations are expected and are under investigation. Several teams will begin a survey of the tunnels to quantify what needs to be replaced, cleaned, protected, etc. Tunnel A, Tunnel B, Tunnel E, and Tunnel F.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$15.000

FY 2014 - 2017 TIP Cost: (Million) \$50.500

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* PANYNJ	\$4.600				
EC	* SECT 5324	\$45.900				
		\$50.500				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Salt Mitigation

DBNUM: PA1412

Funding is provided for Salt Mitigation projects. Salt water infiltrated several parts of the PATH system. The impacted areas were originally washed down, but later months investigation has shown that salt water is still present and causing corrosion in many assets. The salt can only be removed with very high pressure and close proximity power washing and by chemically neutralizing it. Below are specific locations where salt water impacts are present and mitigation is necessary. Work will begin with Tunnels E & F since they experienced most damage, but other locations are expected and are under investigation. Several teams will begin a survey of the tunnels to quantify what needs to be replaced, cleaned, protected, etc. Tunnel A, Tunnel B, Tunnel E, and Tunnel F



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$15.000

FY 2014 - 2017 TIP Cost: (Million) \$0.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
EC	* N/A	\$0.000				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Signals Replacement Program

DBNUM: PA1418

Funding is provided for the Signals Replacement Program Projects. The funds will be used to replace the existing Signal system. with a federally compliant Automatic Train Control system throughout the entire PATH system. The existing signal system suffered extensive damage during Sandy and due to the age of the system replacement parts were not readily available with many parts requiring custom fabrication. The new system will incorporate flood resiliency throughout the system as much as practicable.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT6 (Exempt)

Est. Total Project Cost:

(Million) \$386.000

FY 2014 - 2017 TIP Cost: (Million) \$23.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$1.000	\$1.300			
CON	* SECT 5324	\$9.000	\$11.700			
		\$10.000	\$13.000			

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Signals Replacement Program

DBNUM: PA1418

Funding is provided for the Signals Replacement Program Projects. The funds will be used to replace the existing Signal system. with a federally compliant Automatic Train Control system throughout the entire PATH system. The existing signal system suffered extensive damage during Sandy and due to the age of the system replacement parts were not readily available with many parts requiring custom fabrication. The new system will incorporate flood resiliency throughout the system as much as practicable.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT6 (Exempt)

Est. Total Project Cost:

(Million) \$386.000

FY 2014 - 2017 TIP Cost: (Million) \$266.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$26.600				
CON	* SECT 5324	\$239.400				
		\$266.000				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Signals Replacement Program

DBNUM: PA1418

Funding is provided for the Signals Replacement Program Projects. The funds will be used to replace the existing Signal system. with a federally compliant Automatic Train Control system throughout the entire PATH system. The existing signal system suffered extensive damage during Sandy and due to the age of the system replacement parts were not readily available with many parts requiring custom fabrication. The new system will incorporate flood resiliency throughout the system as much as practicable.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT6 (Exempt)

Est. Total Project Cost:

(Million) \$386.000

FY 2014 - 2017 TIP Cost: (Million) \$316.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$31.600				
CON	* SECT 5324	\$284.400				
		\$316.000				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Substations

DBNUM: PA1413

Replacement/upgrades of Substations 7,8, 9, and 14 in Hudson County. The substations provide power for the PATH system. Funding is provided for these substation replacement projects along with midterm repairs that need to be made to the affected substations. These substations were damaged by storm surges and flooding. Equipment that was damaged and not operational has been replaced or refurbished. The outdoor switch yard and building were also undermined due to storm surge. The existing substations have reached the end of their useful life. The new substations will be constructed above the advisory flood elevation. Land acquisition is necessary in multiple locations so that the current substations can continue to operate during the construction period without any interruption to service. The projects include Substation Interim Repairs/Rehab-Renovation and Midterm Repairs and Replacement/Upgrades for Substations 7,8, 9, and 14.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT6 (Exempt)

Est. Total Project Cost:

(Million) \$193.380

FY 2014 - 2017 TIP Cost: (Million) \$206.699

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$.180	\$20.392	\$.098	\$.000	
CON	* SECT 5324	\$1.620	\$183.524	\$.885	\$.000	
		\$1.800	\$203.916	\$.983		

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Substations

DBNUM: PA1413

Replacement and upgrades of four substations, which provide power to the PATH System. Funding is provided for substation replacement projects. These substations were damaged by storm surges and flooding. Equipment was damaged and not operational and has been replaced or refurbished. The outdoor switch yard and building were also undermined due to storm surge. The existing substations have reached the end of their useful life. The new substations will be constructed above the advisory flood elevation. Land acquisition is necessary in multiple locations so that the current substation can continue to operate during the construction period without any interruption to service. Tunnel A, Tunnel B, Tunnel E, and Tunnel F



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT6 (Exempt)

Est. Total Project Cost:

(Million) \$193.380

FY 2014 - 2017 TIP Cost: (Million) \$192.820

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$19.280				
CON	* SECT 5324	\$173.540				
		\$192.820				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Trackwork Repair and Restoration

DBNUM: PA1419

Funding is provided for Trackwork repair and restoration. The funds will be used to repair or replace trackwork, ties, welded rail, power rail, breakers, cabling, heaters, crossovers, drainage and related equipment damaged by floodwaters and related debris as well as saltwater damage.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT9 (Exempt)

Est. Total Project Cost:

(Million) \$210.000

FY 2014 - 2017 TIP Cost: (Million) \$182.800

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ		\$.838	\$17.442		
CON	* SECT 5324		\$7.540	\$156.980		
			\$8.378	\$174.422		

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Trackwork Repair and Restoration

DBNUM: PA1419

Funding is provided for Trackwork repair and restoration. The funds will be used to repair or replace trackwork, ties, welded rail, power rail, breakers, cabling, heaters, crossovers, drainage and related equipment damaged by floodwaters and related debris as well as saltwater damage.



Counties:

Hudson Essex

Municipalities:

Various

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT9 (Exempt)

Est. Total Project Cost:

(Million) \$210.000

FY 2014 - 2017 TIP Cost: (Million) \$197.000

Unconstrained Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$19.700				
CON	* SECT 5324	\$177.300				
		\$197.000				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Vertical Transportation

DBNUM: PA1415

Funding is provided for vertical transportation replacement projects. These replacement projects will replace the hydro ADA elevator at Hoboken, replace elevators at Harrison Car Maintenance Facility, three escalators at Exchange Place and four escalators at Newport Station. These elevators and escalators were damaged by Superstorm Sandy and need immediate repair. In the case of the Hoboken, due to the urgency of replacing the elevator, the project was started in January and will be complete in September. Hoboken, NJ; Hoboken Station, Harrison Car Maintenance Facility at Harrison, NJ, Exchange Place Station, Jersey City, NJ, Newport Station, Jersey City, NJ.

Counties:

Hudson

Municipalities:

Hoboken City Harrison Twp
Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$30.850



FY 2014 - 2017 TIP Cost: (Million) \$37.933

Unconstrained
Information

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$.099	\$.195	\$ 1.543	\$ 1.957	\$ 1.616
CON	* SECT 5324	\$.890	\$ 1.751	\$ 13.887	\$ 17.611	\$ 14.547
		\$.989	\$ 1.946	\$ 15.430	\$ 19.568	\$ 16.163

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Vertical Transportation

DBNUM: PA1415

Funding is provided for vertical transportation replacement projects. These replacement projects will replace the hydro ADA elevator at Hoboken, replace elevators at Harrison Car Maintenance Facility, three escalators at Exchange Place and four escalators at Newport Station. These elevators and escalators were damaged by Superstorm Sandy and need immediate repair. In the case of the Hoboken, due to the urgency of replacing the elevator, the project was started in January and will be complete in September. Hoboken, NJ; Hoboken Station, Harrison Car Maintenance Facility at Harrison, NJ, Exchange Place Station, Jersey City, NJ, Newport Station, Jersey City, NJ.

Counties:

Hudson

Municipalities:

Hoboken City Harrison Twp
Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$30.850



FY 2014 - 2017 TIP Cost: (Million) \$53.174

**Unconstrained
Information**

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$4.800				
CON	* SECT 5324	\$48.374				
		\$53.174				

NJTPA

Transportation Improvement Program Fiscal Years 2014 - 2017

Vertical Transportation

DBNUM: PA1415

Funding is provided for vertical transportation replacement projects. These replacement projects will replace the hydro ADA elevator at Hoboken, replace elevators at Harrison Car Maintenance Facility, three escalators at Exchange Place and four escalators at Newport Station. These elevators and escalators were damaged by Superstorm Sandy and need immediate repair. In the case of the Hoboken, due to the urgency of replacing the elevator, the project was started in January and will be complete in September. Hoboken, NJ; Hoboken Station, Harrison Car Maintenance Facility at Harrison, NJ, Exchange Place Station, Jersey City, NJ, Newport Station, Jersey City, NJ.



Counties:

Hudson

Municipalities:

Hoboken City Harrison Twp
Jersey City

NJDOT CIS Category:

Mass Transit Assets

RCIS Category:

Transit Preservation

Sponsor:

PANY&NJ

Air Quality Code:

O9, MT8 (Exempt)

Est. Total Project Cost:

(Million) \$30.850

FY 2014 - 2017 TIP Cost: (Million) \$26.960

**Unconstrained
Information**

PHASE	SOURCE	2014	2015	2016	2017	2018-2023
CON	* PANY&NJ	\$2.660				
CON	* SECT 5324	\$24.300				
		\$26.960				