



Photo: PennDOT

Appendix D: Proposed Passenger Rail Projects

This page left blank intentionally

Project information was collected from a variety of sources. Identified schedule and costs are subject to change. The list of projects is not fiscally constrained. The key at the bottom of the table provides explanation for the corresponding codes associated with public benefit, funding source and project type.

**Table D-1: Current Pennsylvania Proposed Passenger Rail Projects,
Sorted by Implementation Year (Project Open Year) and Project Sponsor**

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
1	SEPTA	Commuter	Regional Rail	Vehicle Overhaul Program (near-term)	2021-2024	\$335.8	D	A, B	A, B
2	SEPTA	Commuter	Regional Rail	Grade Crossing Enhancement Program	Ongoing	\$12.0	B	B	E
3	SEPTA	Commuter	Regional Rail	Critical Bridge Program	Ongoing	\$69.2	D, G	B	A
4	SEPTA	Commuter	Regional Rail	Interlocking Improvement Program	Ongoing	\$120.5	D, G	B	E
5	SEPTA	Commuter	Regional Rail	Track & ROW Rail Service Improvements	Ongoing	\$19.3	D, G	B	A
6	SEPTA	Commuter	Regional Rail	Safety & Security Shop, Yard and Office Hardening	Ongoing	\$39.5	B	B	D
7	SEPTA	Commuter	Regional Rail	Regional Rail Stations – RRD Station Roof Program	Ongoing	\$11.3	B	B	C
8	SEPTA	Commuter	Regional Rail	Positive Train Control	2020	\$167.0	F, B	A, B	F
9	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	562 Upgrade PARK to THORN	2020–2024	\$20.0	C	F	D
10	Amtrak, PennDOT, SEPTA	Commuter	Regional Rail	New PARK 2,216-foot 45 MPH Turnback Pocket (Atglen)	2020–2024	\$2.5	C	F	D
11	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	LUKENS-GRAHAM Freight Platform Runaround / Bypass track (Coatesville)	2020–2024	\$12.0	C	A, B	D
12	Amtrak, PennDOT, SEPTA	Commuter	Regional Rail	THORN-GLEN Track 2 Upgrade	2020–2024	\$16.7	C	A, B	A, D

Appendix D: Proposed Passenger Rail Projects

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
13	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	562 Upgrade THORN to FRAZER	2020–2024	\$19.0	C	F	D
14	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	562 Upgrade FRAZER to PAOLI	2020–2024	\$8.5	C	F	D
15	Amtrak, PennDOT, SEPTA	Commuter	Regional Rail	New POTTS Initial Crossover(s) 45 MPH	2020–2024	\$1.5	C	F	D
16	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	PAOLI Restore 2 Main Stub to 15 MPH	2020–2024	\$1.4	C	F	A, D
17	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	562 Upgrade PAOLI to OVERBROOK/NORTH PENN	2020–2024	\$22.0	C	A, B	A, D
18	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	Bryn Mawr Substation Replacement	2020–2024	\$30.0	G	F	A
19	SEPTA	Commuter	Regional Rail	Willow Grove Station on the Warminster Regional Rail Line	2020–2024	\$20.89	A	B	C
20	Amtrak	Intercity and commuter	NEC	Next Generation High Speed Fleet Infrastructure: Ride Quality Investment	2021	\$67.0	H, I	C	B
21	Amtrak	Intercity and commuter	NEC	Next Generation High Speed Fleet Infrastructure: Safety Mitigation	2021	\$90.0	B, H, I	C	B
22	SEPTA	Commuter	Regional Rail	Jefferson Station Ventilation	2021	\$5.1	B	A, B	C
23	SEPTA	Commuter	Regional Rail	Gwynedd Valley Station Parking	2021	\$2.5	E	B	C
24	SEPTA	Commuter	Regional Rail	Railroad Substations – Neshaminy, Bethayres, Yardley	2021	\$24.6	D, G	B	A, D
25	SEPTA	Commuter	Regional Rail	Secane Station on the Media/Elwyn Regional Rail Line – Phase 2 (Parking)	2021	\$3.0	E	B	C
26	Amtrak, SEPTA	Intercity and commuter	Keystone, Regional Rail	Ardmore Station ADA Improvements (Phase 1)	2022	\$53.6	A	A, B	A, C

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
27	Amtrak, SEPTA	Commuter	Regional Rail	Southwest Connection Improvement Project (30th to Phil Signals, Catenary, and ROW Improvements)	2022	\$71.0	D, G	B	E
28	SEPTA	Commuter	Regional Rail	Powelton Yard Facility Improvements	2022	\$3.9	D	B	A
29	SEPTA	Commuter	Regional Rail	Stone Arch Bridge Program – Phase 2	2022	\$11.2	D, G	B	A, D
30	SEPTA	Commuter	Regional Rail	Fern Rock Transportation Center Safety Improvements	2022	\$20.5	B, F	B	C
31	SEPTA	Commuter	Regional Rail	Railroad Substations – Lansdale, Hatboro and 12th Street/Portal Switching Station	2022	\$33.9	D, G	B	D
32	SEPTA	Commuter	Regional Rail	Regional Rail Multi-Level Car Acquisition	2022	\$174.3	C	A, B	A, B
33	SEPTA	Commuter	Regional Rail	Station Ventilation Improvements at Suburban Station	2022	\$10.0	B	A, B	C
34	Amtrak, PennDOT	Intercity	Keystone	Harrisburg Line Station Improvements: Middletown	2020	\$41.0	A, B, E, F	A, E	A, C
35	SEPTA	Commuter	Regional Rail	Lawndale Station Pedestrian Underpass & High-Level Platform	2023	\$9.6	B	A, B	C
36	SEPTA	Commuter	Regional Rail	Video Systems Refreshment Program	2023	\$21.5	B	B	A
37	SEPTA	Commuter	Regional Rail	Elwyn to Middletown/US Route 1 Rail Service Restoration	2023	\$193.0	A, C	B	B
38	SEPTA	Commuter	Regional Rail	Frazer Rail Shop and Yard Upgrade	2023	\$139.0	C	B	D
39	SEPTA	Commuter	Regional Rail	Wayne Junction Static Frequency Converters #1–4	2023	\$60.0	D, G	B	E
40	Amtrak, PennDOT	Intercity	Keystone	Harrisburg Line Station Improvements: Coatesville	2021	\$42.5	A, B, E, F, G	A, E	A, C
41	SEPTA	Commuter	Regional Rail	Chestnut Hill East ADA Improvements	2024	\$11.2	A	B	A, C

Appendix D: Proposed Passenger Rail Projects

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
42	SEPTA	Commuter	Regional Rail	Jenkintown-Wyncote Station on the Regional Rail Mainline	2024	\$25.3	A	A, B	C
43	SEPTA	Commuter	Regional Rail	Woodbourne Substation	2024	\$23.5	D, G	B	D
44	SEPTA	Commuter	Regional Rail	Mainline-Schuylkill Bridges (30th St. to Suburban Station) Phase 2	2024	\$11.0	G	B	E
45	SEPTA	Commuter	Regional Rail	Chestnut Hill East Line Bridge Rehab Program	2024–2027	\$30.0	G	B	E
46	SEPTA	Commuter	Regional Rail	Chestnut Hill West Line Bridge Rehab Program	2024–2030	\$35.0	G	B	E
47	Amtrak, PennDOT	Intercity	Keystone/ NEC	Rail Car Procurement	2025	\$250.0	A, B, D, G	A, B	A
48	SEPTA	Commuter	Regional Rail	Villanova Station ADA Improvements (Phase 2)	2025	\$10.5	A	A, B	A, C
49	SEPTA	Commuter	Regional Rail	30th Street West Catenary Replacement	2025	\$77.0	G	B	E
50	SEPTA	Commuter	Regional Rail	Railroad Substations – 18th Street Switching Station	2025	\$13.0	D, G	B	D
51	SEPTA	Commuter	Regional Rail	Vehicle Overhaul Program (long-term)	2025-2032	\$684.7	D	A, B	A, B
52	Amtrak, PennDOT	Intercity	Keystone	STATE EAST New Storage Tracks	2025–2035		C, D, G	F	D
53	Amtrak, PennDOT	Intercity	Keystone	Concrete Tie Installation	2025–2035		C	F	A
54	Amtrak, PennDOT	Intercity	Keystone	Increase MAS to 125 mph	2025–2035		I	F	B
55	Amtrak, PennDOT	Intercity	Keystone	ROY Turnouts Upgrade to 45 MPH	2025–2035		C, D, G	F	A
56	Amtrak, PennDOT	Intercity	Keystone	CORK Turnouts Upgrade to 45 MPH	2025–2035		C, D, G	F	A
57	Amtrak, PennDOT	Intercity	Keystone	LEAMAN Turnouts Upgrade to 45 MPH	2025–2035		C, D, G	F	A

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
58	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	Extend Track 2 Caln to LUKENS and Interlocking Improvements	2025–2035		C, D, G	F	D
59	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	POTTS Full buildout	2025–2035		C, D, G	F	D
60	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	New Track 2 PAOLI to GLEN	2025–2035		C, D, G	F	A, D
61	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	New RUSSELL Interlocking	2025–2035		C, D, G	F	D
62	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	New VILLA Interlocking	2025–2035		C, D, G	F	A, D
63	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone	Harrisburg Line Station Improvements: Downingtown	2023	\$130.0	A, E, F	A, B	C
64	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	Harrisburg Line Interlocking Improvements: Zoo-Wynnefield	2026		C, D, G	G	A
65	SEPTA	Commuter	Regional Rail	Railroad Substations – Chestnut Hill Substation	2026	\$22.5	D, G	B	D
66	Amtrak, PennDOT, SEPTA	Intercity and commuter	Keystone, Regional Rail	Paoli Transportation Center – Station & Intermodal Improvements (Phase 2)	2026–2032	\$50.3	E, F	G	C
67	Amtrak, SEPTA	Intercity and commuter	Keystone, Regional Rail	Ardmore Station Parking Improvements (Phase 2)	2026–2032	\$26.1	E	G	A, C
68	PennDOT, SEPTA	Commuter	Regional Rail	Exton Station Improvements – Phase 2 & 3	2026–2032	\$38.6	E, F	B	C
69	SEPTA	Commuter	Regional Rail	Mainline–Schuylkill Bridges (30th St. to Suburban Station) Phase 3	2026–2032	\$45.0	G	B	E
70	SEPTA	Commuter	Regional Rail	Noble Station, Parking Garage and Storage Track	2026–2032	\$53.0	A, E	B	C

Appendix D: Proposed Passenger Rail Projects

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
71	SEPTA	Commuter	Regional Rail	Malvern Station ADA High-Level Platforms	2026–2032	\$15.3	A	B	A, C
72	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Devon	2026–2032	\$20.0	A	B	C
73	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Hatboro	2026–2032	\$7.2	A	B	C
74	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Marcus Hook	2026–2032	\$22.5	A	B	C
75	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Roslyn	2026–2032	\$6.5	A	B	C
76	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Swarthmore	2026–2032	\$18.0	A	B	C
77	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Wyndmoor	2026–2032	\$19.5	A	B	C
78	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Wynnewood	2026–2032	\$19.5	A	B	C
79	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Glenside	2026–2032	\$24.8	A	B	C
80	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Ivy Ridge	2026–2032	\$18.5	A	B	C
81	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Stenton	2026–2032	\$7.2	A	B	C
82	SEPTA	Commuter	Regional Rail	Regional Rail Stations – Wissahickon	2026–2032	\$28.2	A	B	C
83	SEPTA	Commuter	Regional Rail	Station Ventilation Improvements at NRG Station	2026–2032	\$10.0	B	A, B	C
84	SEPTA	Commuter	Regional Rail	Philmont Station Parking	2026–2032	\$25.0	A, E	B	C
85	SEPTA	Commuter	Regional Rail	Fern Rock Complex	2026–2032	\$77.5	C, D, E	B	C
86	SEPTA	Commuter	Regional Rail	Brill Substation Overhaul	2027	\$12.8	D, G	B	D
87	SEPTA	Commuter	Regional Rail	Midvale Facility and Security Enhancements	2028	\$23.2	B	B	A
88	Amtrak, SEPTA	Intercity and commuter	NEC, Regional Rail	Philadelphia 30th Street Station Improvement Program	2050	\$517.0	B, C, H	D	C, D
89	PennDOT	Intercity	Keystone	Harrisburg Line Station Improvements: Harrisburg Transportation Center Roof Replacement	2021	\$2.0	B	A, B	B

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
90	PennDOT	Intercity	Keystone	Lancaster Station Concourse extension to parking on the north side of tracks	2022	\$15.5	E	F	
91	PennDOT	Intercity and commuter	Keystone, Regional Rail	Paoli 3rd Track and Interlocking Project	2025-2035		C, D, G	F	D
92	PennDOT	Commuter	Keystone, Regional Rail	New NOVA Interlocking	2025-2035		C, D, G	F	A, D
93	PennDOT	Intercity	Keystone	Parkesburg ADA Platforms	2021	\$50.0	A	F	
94	PennDOT	Intercity	Regional Rail	Thorndale West Bound High-Level Platform	2025-2035			F	
95	PennDOT	Other		Chestnut St Over Amtrak/CONR	2021	\$7.6	B, G	F	A, B, D
96	PennDOT	Other		Boot Road over Amtrak	2022	\$1.5	B, G	F	A, B, D
97	PennDOT	Other		Sellers Ave over Amtrak	2022	\$6.9	B, G	F	A, B, D
98	PennDOT	Other		Folcroft Ave over Amtrak	2022	\$2.4 \$5.4	B, G	F	A, B, D
99	PennDOT	Other		N Valley Road over Amtrak				F	
100	PennDOT	Other		Ridge Avenue over Amtrak		\$0.82		F	
101	PennDOT	Other		Pitney Road over Amtrak				F	
102	PennDOT	Other		I-83 Section B-79C				F	
103	PennDOT	Other		I-95 CPR: Magee to Unruh				F	
104	PennDOT	Other		Maytown Road over Amtrak		\$0.15		F	
105	PennDOT	Other		Georgetown Road over Amtrak		\$0.15		F	
106	PennDOT	Other		Horseshoe Road over Amtrak		\$0.15		F	
107	PennDOT	Other		Colebrook Road over Amtrak		\$0.05		F	
108	PennDOT	Other		Main St Over SEPTA		\$6.1		F	A, D
109	PennDOT	Other		W Bridge St Over Amtrak		\$0.8	B, G	F	A, B, D
110	PennDOT	Other		Market St Over Amtrak		\$19.6	B, G	F	A, B, D
111	PennDOT	Other		Ardmore Ave over SEPTA		\$12.9	B, G	F	A, B, D
112	PennDOT	Other		College Ave over SEPTA P&W		\$9.4	B, G	F	A, B, D

Appendix D: Proposed Passenger Rail Projects

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
113	PennDOT	Other		Lloyd St over Amtrak		\$4.8 \$10.4	B, G	F	A, B, D
114	Amtrak	Intercity and commuter	NEC, Regional Rail	Ham-Trenton-Grundy Section/Station Improvement			C, D, G, I	F	A, D
115	Amtrak	Intercity and commuter	NEC, Regional Rail	Cornwells Heights capacity and SEPTA turnback			C, D, G	F	A, D
116	Amtrak	Intercity and commuter	NEC, Regional Rail	Philadelphia to North Philadelphia Capacity and Trip Time Improvement			C, D, G, I	F	A, D
117	Amtrak	Commuter	Regional Rail	Shore to Lehigh Commuter Capacity Add-on to above project			C, D, G	F	A, D
118	Amtrak	Intercity and commuter	NEC, Regional Rail	Phil Interlocking Improvement			C, D, G	F	A, D
119	Amtrak	Intercity and commuter	NEC, Regional Rail	Baldwin Interlocking Improvement			C, D, G	F	A, D
120	Amtrak	Intercity and commuter	NEC, Regional Rail	Hook Interlocking Improvement and SEPTA Turnback			C, D, G	F	A, D
121	Amtrak	Intercity and commuter	NEC, Regional Rail	Brill to Landlith OCS Replacement			C	F	A, D
122	Amtrak	Intercity and commuter	NEC, Regional Rail	Trenton-Philadelphia-Wilmington 562 Signal Upgrade			C, D, G	F	A, D
123	Amtrak	Intercity	NEC	Curve Modification Trip Time Improvement			I	F	D
124	Amtrak	Intercity and commuter	NEC, Regional Rail	Trenton – Philadelphia OCS SAP Assembly Project			C, I	F	D
125	Amtrak	Intercity and commuter	NEC, Regional Rail	Paoli-Zoo Transmission Line/ET Pole Replacement		\$200	C	F	A, D
126	NJT	Commuter		Commuter Rail Service from Scranton to New York via Lackawanna Cut-off			J	G	B, E
127	Undetermined	Commuter		Reading to Philadelphia Passenger Service		\$818 ⁽¹⁾	J	G	B, E
128*	Undetermined	Commuter		Monessen Mid-Mon Valley Commuter Rail			J	G	B, E

Project Number	Project Sponsor	Service Type	Corridor	Project	Planned Implementation (Project Open Year)	Cost (\$M)	Public Benefit	Funding Source	Project Type
129	Undetermined	Commuter		Philadelphia to Phoenixville Passenger Rail Service		\$165	J	G	B, E
130	SEPTA	Commuter		West Chester Rail Extension			J	G	B, E
131	SEPTA	Commuter		Bethlehem Branch Passenger Rail Extension			J	G	B, E
132	Amtrak, PennDOT	Intercity		Additional Service between Harrisburg and Pittsburgh			D, G	G	D, E

Sources: NEC Capital Investment Plan (FY 2020–2024), SEPTA Capital Program FY 2021–2032, Plan the Keystone Website, PennDOT, PNRRA, * submitted by the Mayor of the City of Monessen via letter 5/6/2020.

(1) Cost as identified in the PennDOT 2020 study

Key:

Public Benefits:

- A (ADA Accessibility)
- B (Safety)
- C (Increase Capacity)
- D (Improve Operational Efficiencies)
- E (Improve Parking)
- F (Improve Multimodal Connection)
- G (Improve System Reliability)
- H (Climate Change)
- I (Reduce Travel Time)
- J (New Service)

Funding Source:

- A (Federal – FTA)
- B (State/Local)
- C (Amtrak – Loan)
- D (Amtrak – Non-Baseline Capital Charge (BCC) Amtrak Funds)
- E (State Funding – Grant Match)
- F (No Information)
- G (Unfunded)

Funding sources listed are all current funding sources publicly available for the project; however, the project may not currently be fully funded.

Project Type:

A (State of Good Repair)

B (New Services)

C (Station Improvements)

D (Renovations and Expansion)

E (Rehabilitation of Existing Assets)

F (Improved integration with freight rail services)

Cost values are rounded to the nearest \$100,000.