

# Hudson Tunnel

## Secaucus, New Jersey to New York City, New York

### New Starts Project Development (Rating Assigned November 2019)

| Summary Description                               |  |
|---|--|
| <b>Proposed Project:</b>                          | Commuter Rail<br>6.5 Miles, 1 Station                                |
| <b>Total Capital Cost (\$YOE):</b>                | \$12,127.22 Million (Includes \$1,969.93 million in finance charges) |
| <b>Section 5309 CIG Share (\$YOE):</b>            | \$5,338.68 Million (44.0%)   |
| <b>Annual Operating Cost (opening year 2029):</b> | \$3.39 Million   |
| <b>Current Year Ridership Forecast (2016):</b>    | 189,700 Daily Linked Trips<br>52,931,400 Annual Linked Trips         |
| <b>Horizon Year Ridership Forecast (2030):</b>    | 223,200 Daily Linked Trips<br>62,270,900 Annual Linked Trips         |
| <b>Overall Project Rating:</b>                    | Medium-Low   |
| <b>Project Justification Rating:</b>              | Medium-High  |
| <b>Local Financial Commitment Rating:</b>         | Low  |

**Project Description:** The Port Authority of New York and New Jersey (PANYNJ), in cooperation with the Gateway Program Development Corporation (GDC), New Jersey Transit Corporation (NJ TRANSIT) and the National Railroad Passenger Corporation (Amtrak), propose the construction of a new two-track heavy rail tunnel along the Northeast Corridor from the Bergen Palisades in New Jersey to Manhattan that will directly serve Penn Station New York. The project consists of three major elements: the Hudson Yards right-of-way preservation project, the Hudson Tunnel, and the rehabilitation and modernization of the existing North River tunnel. The project is part of the Northeast Corridor (NEC) Gateway Program, a series of strategic rail infrastructure investments designed to improve current service and create new capacity. Service is planned to operate 24-hours a day, seven days a week, with trains every three minutes during peak periods, every nine minutes during off-peak periods, and every 10 minutes during evenings and weekends.

**Project Purpose:** The existing 106-year old North River tunnel is owned by Amtrak. NJ TRANSIT and Amtrak operate approximately 450 trains each weekday through the tunnel that carry over 200,000 daily passenger trips. The North River tunnel presents reliability challenges due to damage from Superstorm Sandy in 2012, as well as the overall age of the tunnel and the intensity of its current use. Significant delays to trains occur when problems arise. The project is planned to improve the reliability of service in the corridor by addressing the deterioration of the existing North River tunnel. The project is also meant to preserve the current functionality of Amtrak's NEC service and NJ TRANSIT's commuter rail service and strengthen the reliability of service by providing operational flexibility for trains under the Hudson River that are traveling between New Jersey and New York.

**Project Development History, Status and Next Steps:** The project entered New Starts Project Development in July 2016. A locally preferred alternative was adopted into the New Jersey and the New York fiscally constrained long-range transportation plans in November 2017

and August 2018, respectively. FTA issued a Categorical Exclusion for the Hudson Yards right-of-way preservation project element in November 2019. PANYNJ is currently conducting the environmental review process for the tunnel elements, and anticipates its completion in late 2019, with the publication of a Final Environmental Impact Statement and issuance of a Record of Decision. PANYNJ also anticipates entry into New Starts Engineering in early 2020, and award of an Early Systems Work Agreement prior to the receipt of a Full Funding Grant Agreement in late 2020. Both the new tunnel and the rehabilitated tunnel are estimated to open for revenue service by 2029.

***Significant Changes Since Last Evaluation (November 2018):*** In July 2019, the states of New York and New Jersey each enacted legislation to establish the Gateway Development Commission, an entity created to eventually qualify as an eligible CIG grant applicant, and to serve as project sponsor. The overall project cost decreased from \$13,702.43 million to \$12,127.22 million, due to new contract packaging, procurement and delivery methods. In addition, the project funding sources were revised, including a new contribution from Amtrak, and finance charges decreased from \$2,273.31 million to \$1,969.93 million. The amount of CIG funds decreased from \$6,769.00 million to \$5,338.68 million, and the CIG share decreased from 49.4 to 44.0 percent.

## Locally Proposed Financial Plan

| <u>Source of Funds</u>  | <u>Total Funds (\$million)</u> | <u>Percent of Total</u> |
|---|--------------------------------|-------------------------|
| <b>Federal:</b>   |                                |                         |
| Section 5309 New Starts   | \$5,338.68                     | 44.0%                   |
| Amtrak Contribution   | \$153.34                       | 1.3%                    |
| <b>Local:</b>   |                                |                         |
| Railroad Rehabilitation and Improvement Financing (RRIF) Loan Repaid with PANYNJ Funds to GDC | \$2,350.06                     | 19.4%                   |
| RRIF Loan Repaid with State of New York Funds to GDC  | \$1,906.77                     | 15.7%                   |
| RRIF Loan Repaid with State of New Jersey funds to GDC  | \$1,642.50                     | 13.5%                   |
| RRIF Loan Repaid with Unspecified Local Revenues to GDC                                       | \$60.68                        | 0.5%                    |
| GDC Funds from State of New Jersey Payments   | \$275.34                       | 2.3%                    |
| GDC Funds from PANYNJ Payments  | \$235.93                       | 1.9%                    |
| GDC Funds from State of New York Payments   | \$161.29                       | 1.3%                    |
| Unspecified Local Revenue   | \$2.63                         | 0.1%                    |
| <b>Total:</b>   | <b>\$12,127.22</b>             | <b>100.0%</b>           |

**NOTE:** The financial plan reflected in this table has been developed by the project sponsor and does not reflect a commitment by DOT or FTA. The sum of the figures may differ from the total as listed due to rounding.

**NJ-NY, Secaucus, Hudson Tunnel  
(Rating Assigned November 2019)**

| <b>Factor</b>   | <b>Rating</b> | <b>Comments</b>  |
|---|---------------|--|
| <b>Local Financial Commitment Rating</b>  | <b>Low</b>    |  |
| <b>Non-Section 5309 CIG Share</b>   | <b>n/a</b>    | Federal Public Transportation Law, 49 USC 5309(q)(3), requires FTA to evaluate the proposed share from sources other than the Section 5309 Capital Investment Grants (CIG) program based on the unified finance plan for the entire joint public transportation and intercity passenger rail project. Although the CIG share is less than 50 percent of the total cost of the joint intercity rail and public transportation project, the project does not qualify for a one-step rating increase since the financial plan is rated Low.   |
| <b>Project Financial Plan</b>   | <b>Low</b>    |  |
| Current Capital and Operating Condition<br>(25% of local financial commitment rating)   | Medium-Low    | <ul style="list-style-type: none"> <li>• The average age of the New Jersey Transit (NJT) bus fleet is 8.5 years, which is older than the industry average.</li> <li>• The most recent bond ratings for the Port Authority of New York and New Jersey (PANYNJ), issued in August 2019, are as follows: Moody's Investors Service Aa3, Fitch's AA- and Standard &amp; Poor's Corporation AA-.</li> <li>• NJT's current ratio of assets to liabilities as reported in its most recent audited financial statement is 0.93 (FY2018).</li> <li>• There have been no major NJT service cutbacks or cash flow shortfalls in recent years.</li> </ul>  |
| Commitment of Capital and Operating Funds<br>(25% of local financial commitment rating) | Low           | <ul style="list-style-type: none"> <li>• None of the non-CIG funds are committed or budgeted. All of the funds are planned or unspecified. Sources of funds include Amtrak, Railroad Rehabilitation and Improvement Financing (RRIF) loan proceeds repaid by PANYNJ funds, New York State funds, State of New Jersey funds, and unspecified local revenues.</li> <li>• Approximately 60 percent of the funds needed to operate and maintain the transit system in the first full year of operation are committed or budgeted, and the rest are considered planned. Sources of funds include Federal Section 5307 Urbanized Area Formula Program funds and Section 5337 State of Good Repair funds used for preventive maintenance, New Jersey state operating assistance from the general fund, casino revenues, NJ Turnpike revenues, and NJ</li> </ul> |



|   |     |  |
|---|-----|--|
|   |     | Transportation Trust Fund revenues, and passenger fares and other sources of system-generated operating revenues.  |
| Reasonableness of Capital and Operating Cost Estimates and Planning Assumptions/Capital Funding Capacity (50% of local financial commitment rating) | Low | <ul style="list-style-type: none"> <li>• Assumed growth in NJT system-wide capital revenues is reasonable compared to recent historical experience. However, assumptions regarding CIG capital funding for the Project are very optimistic, including the total amount assumed and annual CIG funding levels.</li> <li>• The capital cost estimate is reasonable.</li> <li>• Regarding assumed growth in operating revenue assumptions, farebox collections are optimistic and operating assistance is reasonable compared to recent historical experience.</li> <li>• Operating cost estimates are reasonable compared to recent historical experience.</li> <li>• No funding is currently available to cover unexpected CIG capital cost increases or funding shortfalls. NJT did not demonstrate access to funds via additional debt capacity, cash reserves, or other committed funds to cover annual system wide operating expenses in excess of the current forecast.</li> </ul> |

# Hudson Tunnels

## Secaucus, New Jersey to New York City, New York

### New Starts Project Development (Rating Assigned November 2019)

#### **LAND USE RATING: High**

The land use rating reflects population density within one-half mile of the proposed station, employment served by the line, and the share of legally binding affordability restricted (LBAR) housing in the station area compared to the share in the surrounding county.

- The Penn Station area's existing population density is 47,800 persons per square mile, which corresponds to a High rating according to FTA benchmarks. Total employment served is 332,000, corresponding to a High rating. Parking costs in the Manhattan central business district (CBD) are over \$20 per day, corresponding to a High rating. The ratio of station area to county proportion of LBAR housing units is 1.79, rating Medium. The rating for this subfactor increases to a Medium-High because over five percent of housing units in the county through which the project travels are LBAR.
- The Penn Station area is one of the densest commercial and residential locations in the United States. The station provides access to numerous intra-city and inter-city rail services and supports more than 650,000 visitors and commuters per day. Most buildings are greater than 20 stories, going as high as 102 stories, with minimal building setbacks. The station area has a grid structure and wide sidewalks.

#### **ECONOMIC DEVELOPMENT RATING: Medium-High**

#### **Transit-Supportive Plans and Policies: Medium**

- *Growth Management:* The primary guide for regional growth management is the nonprofit Regional Plan Association's Regional Plan for New York, an advisory strategic plan. New York City's citywide strategic plan targets development, including a major expansion in the city's housing supply, in transit-accessible corridors. Various other state and regional agencies and collaborations have developed voluntary plans and tools to help support regional growth management.
- *Transit-Supportive Corridor Policies:* Five small-area planning efforts around Penn Station over the last 20 years have informed higher-density rezonings. The city's street and development design guidelines support pedestrian- and transit-friendly development.
- *Supportive Zoning Regulations Near Transit Stations:* Zoning for the Penn Station area generally allows High densities per FTA benchmarks for a CBD, as well as mixed uses. Many portions of the station area are exempt from parking requirements
- *Tools to Implement Land Use Policies:* Programs include density bonuses, transfer of air and development rights, district improvement bonus mechanisms, and tax incentives.

#### **Performance and Impacts of Policies: High**

- *Performance of Land Use Policies:* The Hudson Yards project, currently underway, includes the redevelopment of 28 acres of underutilized land into a high-density, mixed-use environment with up to 12,600 new housing units and 29.6 million square feet of commercial space. Twenty high-rise buildings have been recently completed in this area and 12 are planned, mainly mixed-use residential and office towers exceeding 35 stories.
- *Potential Impact of Transit Investment on Regional Land Use:* The Penn Station area still has some underutilized land that could be redeveloped at the high densities permitted by zoning. Despite being densely developed, population and employment in the station area are expected to grow further given the area's access to intra-city and inter-city rail services and its strong market.

#### **Tools to Maintain or Increase Share of Affordable Housing: High**

- New York City targeted the construction of 300,000 new affordable housing units over the 2015-2024 period and has financed over 135,000 units between 2014 and 2019. The city has adopted inclusionary zoning requirements, in-lieu fees and affordable housing density bonuses. Financial tools include tax-exempt bonds issued by the Housing Development Corporation and increased capital contributions by the city. In the Penn Station area, 600 units of affordable housing were recently completed and the Hudson Yards development will create up to 5,000 affordable units.



