
Brewster Yard & Southeast Station and Parking Improvements

Capital Engineering - Shops and Yards & Strategic Facilities

Date: February 2020

Metro-North Railroad



Program Goals: Brewster Yard & Southeast Station Parking Improvements

Currently Brewster train yard is at capacity and cannot accommodate the future fleet and operations required to support Metro-North (MNR) Harlem Line long-term ridership growth. MNR sets forth to accomplish the following goals to meet the demand:

- Relocate the existing Southeast Station parking into a new parking facility, east of the station within the Metro-North's, 52-acre property:
 - Improve customer service and traffic circulation with more convenient, expanded parking and intermodal access.

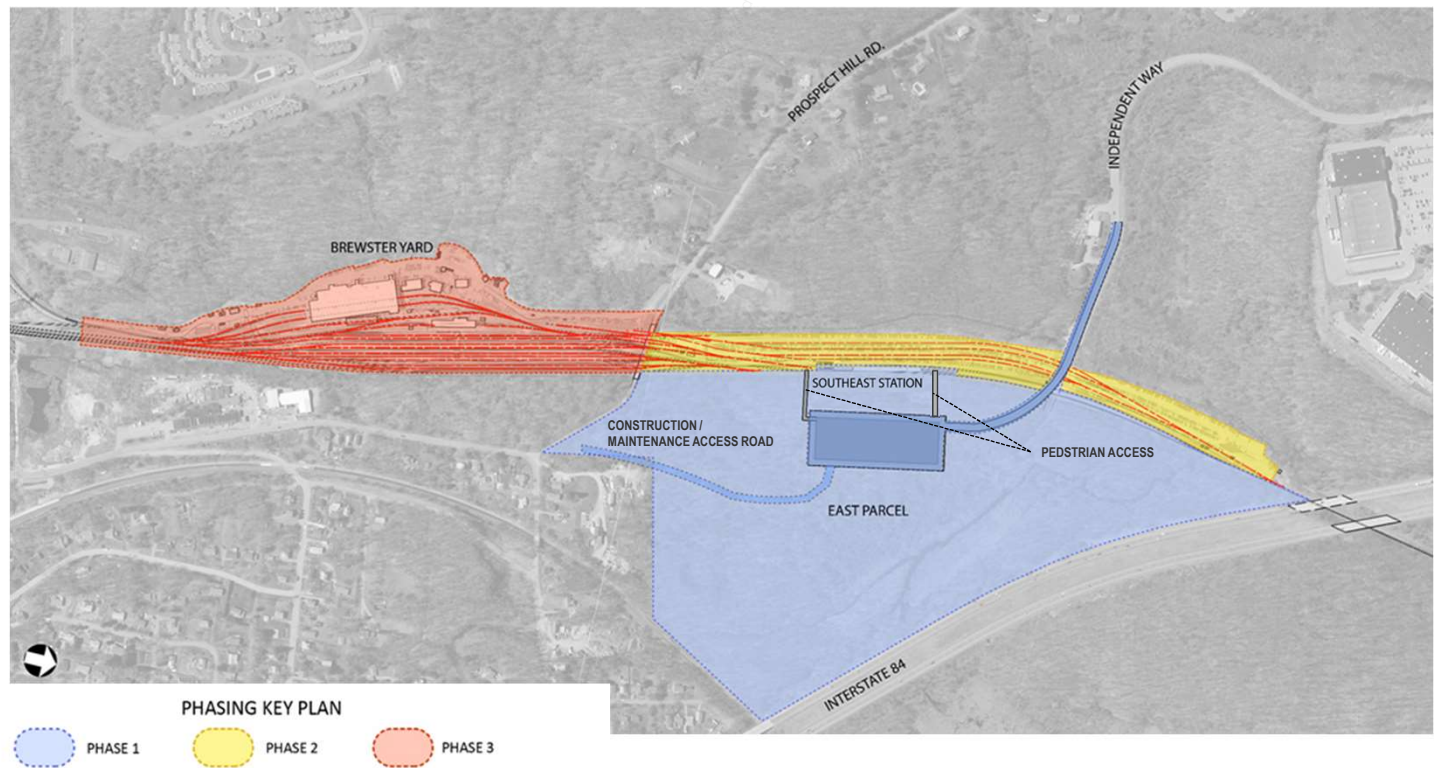
- Expand and modernize Brewster Yard to support long-term ridership growth:
 - Extend the existing yard to the north into the current Southeast Parking footprint after the new parking facility is complete.

- Improve Southeast Station's overpass, platform, and canopy to enhance its aesthetics, safety and amenities.



Three-Phased Program Approach

- **Phase I**
 - Parking and Access Improvements
 - Station Improvements
- **Phase II**
 - North Yard Construction
- **Phase III**
 - South Yard Reconfiguration



PHASE I – Parking Facility, Access and Station Improvements

Major project elements:

- Construct a new 1,000 plus - space garage to replace the existing surface parking lots at Southeast Station.
- Construct a new **fly-over bridge** that will connect Independent Way to the new parking facility.
- Extend the **existing pedestrian overpass** to the new parking facility.
- **Pedestrian Access** from the parking facility to the **northern end of island platform** is being **planned**; existing track curvature may have an impact.
- Provide convenient **Kiss & Ride, Drop-off/Pick-up Zones** within the parking facility.
- Construct **intermodal facilities** including local bus connections.
- Rehabilitate the existing **Southeast Station**.
- Integrate **station enhancements & customer service** initiatives in the station improvements.



PHASE I – Southeast Station Improvements

- **New and improved connections at the station:**
 - Provide consistency & balance in the architecture at Southeast, so that its elements are similar to other MNR stations that have been upgraded (White Plains, Crestwood, Harlem 125th St.)
 - Enhance the Vibrancy, Wayfinding, Safety, Comfort, and Readability qualities of the various station elements.



White Plains Station Island Platform



Station Improvements Initiatives

- Upgrade existing **Southeast Station** and include the following station improvement initiatives:

- Wood Ceiling Soffit and Lighting
- Leaning Bars
- Wood and Stainless Steel Benches
- Platform Shelters
- Information Totems



Enhanced overpass at Riverdale Station :



Platform Shelter



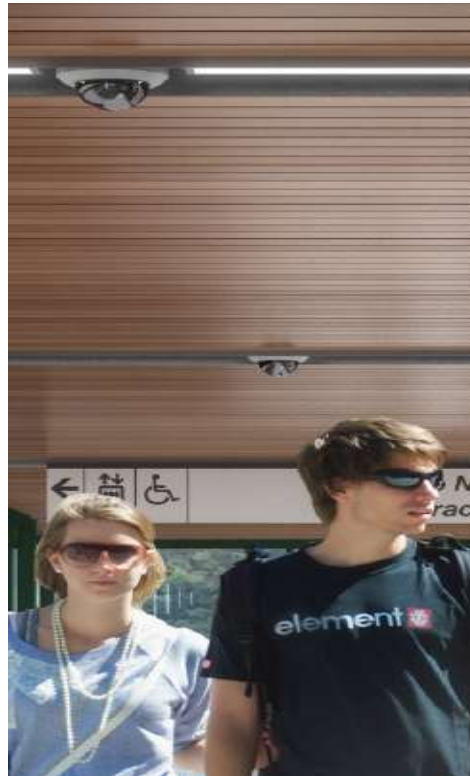
Information Totems



Customer Service Initiatives

Upgrades to customer information systems:

- Closed Circuit Television (CCTV)
- Digital Customer Signs
- Public Address
- Elevator Management System



Customer Information Display



Platform Display at Harlem 125th Street



Phase II: New North Yard Construction

▣ Phase II: Construct a new North Yard

Highlights

- ▣ Construct four (4) new additional storage tracks, each to hold 10 -12 train car consists.
- ▣ Provide new, efficient fueling, sanding and servicing facilities for diesel and electric train sets.
- ▣ Provide 480V AC Stand-by Power to reduce locomotive engine idling.



Phase III : South Yard Improvements

▣ Phase III: Reconfigure Existing South Yard

Highlights

- ▣ Modify track alignments and increase track spacing to improve yard operations and train servicing.
- ▣ Increase track lengths to accommodate longer trains.



Key Engineering/Design Tasks

In order to progress the Brewster Improvement Project, MNR has contracted Henningson, Durham and Richardson (HDR) Architecture and Engineering to complete the following:

- Conduct Environmental and Traffic Studies that will analyze and refine the full scope of the Parking Improvements and Yard Expansion.
- Prepare Preliminary Design documents to advance Phase I, Phase II, and Phase III for Design-Build project deliveries.



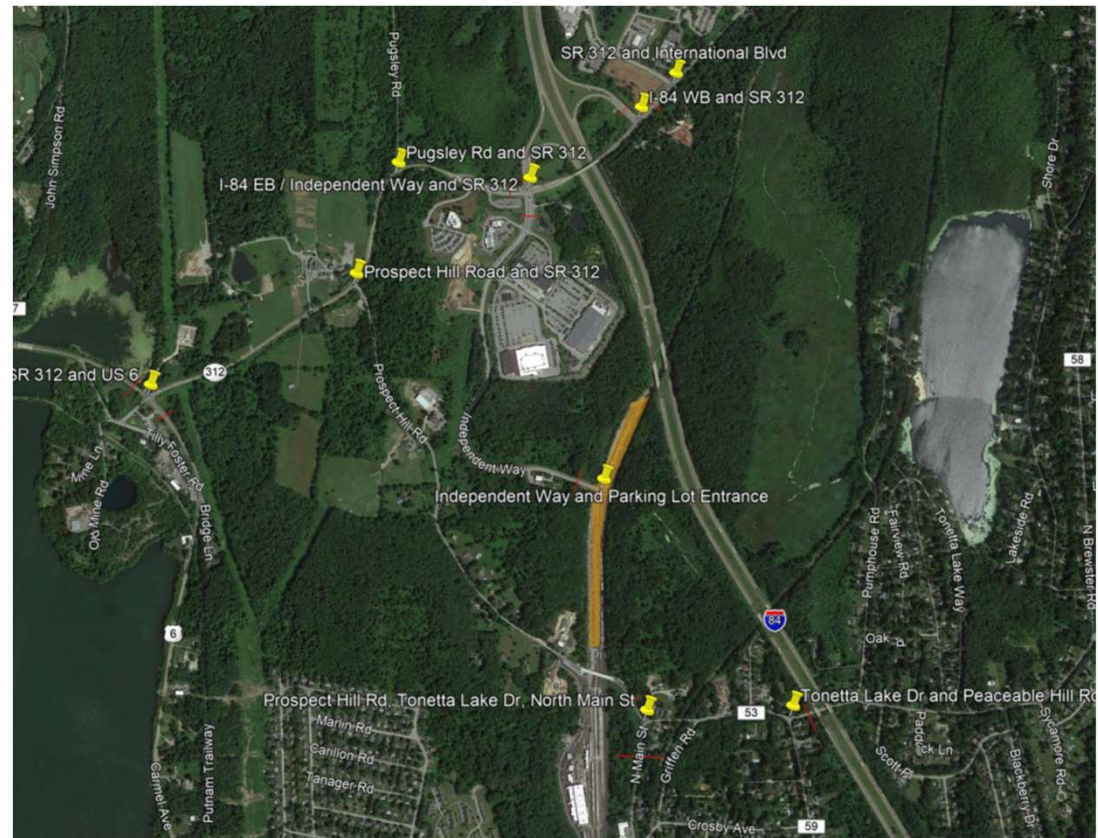
Schedule (Preliminary Design by HDR)

Phase	Scope	Start	Completion
Phase IA	Environmental and Traffic Studies	10 / 2019	04 / 2021
Phase IB	Preliminary Design: <ul style="list-style-type: none">▪ Parking Facility & Access Improvements▪ Station Enhancements	04 / 2021	04 / 2022
Phase II & Phase III	Preliminary Design: North & South Yards	04 / 2022	04 / 2023



Phase IA – Traffic Studies

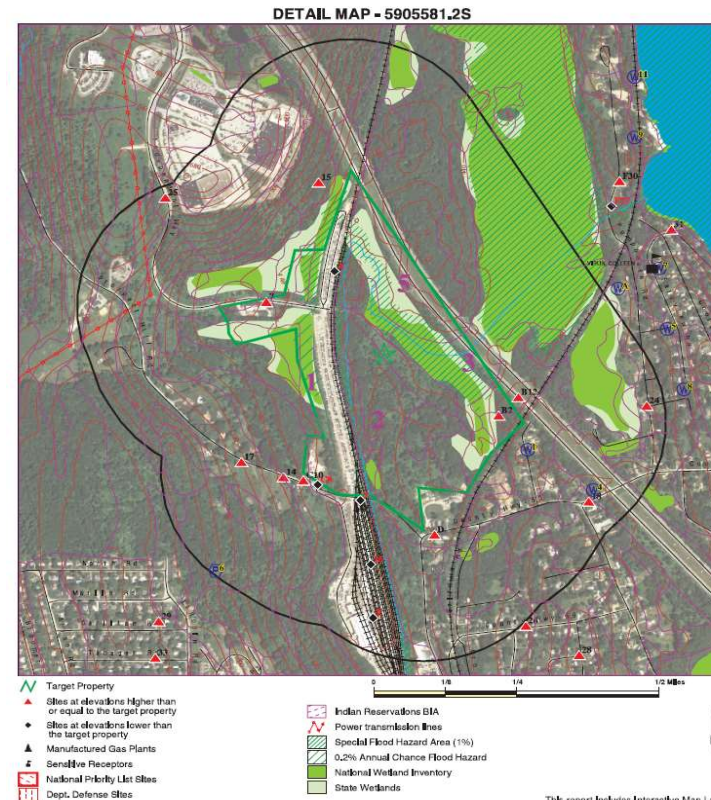
- Traffic Studies
 - Parking Demand
 - Origin and Destination
 - Traffic Analysis



Phase IA– Environmental

Environmental Studies

- Environmental Site Assessment
- Wetland Impacts
- Water Quality and Hydrology
- Air Quality
- Noise and Vibration Impacts
- Habitat
- Historical and Archaeological Resources



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the detail map view.



Schedule Projections (Design-Build)

Phase	Scope	Start	Completion
Phase I	Construction: <ul style="list-style-type: none"> ▪ Parking Facility & Access Bridge ▪ New North Overpass Improvements: <ul style="list-style-type: none"> ▪ Station and Existing Overpass 	10 / 2022*	10 / 2025
Phase II**	Construction: New North Yard	10 / 2025	07 / 2028
Phase III**	Reconfiguration: South Yard	07 / 2028	04 / 2031



* Construction start time anticipated earlier as preliminary design may be accelerated.

** Funding anticipated in future Capital Plan

Summary: Project Benefits

□ **Safety/Operations:**

- Improving the station environment with upgraded amenities, customer information, surveillance and monitoring systems, transparency and LED lighting will enhance safety, and security while adding to the comfort of MNR customers.
- Reconfiguring the yard will add more storage tracks for optimum, safe, and efficient train movements; expanding the yard to the north will provide modernized one-stop train servicing facilities.
- **Customer Satisfaction/Service Reliability**
- The yard upgrade and expansion will improve future capacity on the Harlem Line in conjunction with power, signal, and fleet improvements.
- Consolidating all the parking in a garage closer to the overpass will shorten the walk-time to the station and provide weather protection to our customers, and their vehicles.

□ **Environmental/Sustainability:**

- The Intermodal Area will provide improved access for connecting services and increased capacity from the Southeast area, removing vehicles from the congested roadways
- Providing stand-by power will reduce idling of diesel locomotives; ultimately reduce fuel costs, decrease noise pollution to surrounding communities as well as any harmful emissions to the environment.

□ **Ridership/Revenue/Cost Reduction:**

- Expanding the yard will meet ridership demand forecasts on the Harlem Line and throughout the region; will allow a calculated reduction in equipment moves between New York City and Southeast.
- Increase in the net parking spaces will help meet the waitlist demand.



Next Steps

- **Project Coordination with Town of Southeast & Other Stakeholders**
 - Traffic Analysis: Request for information regarding Town Planning, Growth & Development
 - Establish Point of Contact with Town of Southeast
 - Request Relevant Record Documents
 - Storm Water Management
 - Potable Water System
 - Environmental
 - Other



Questions

