Phase 1 Overview

- **Scope:**
  - Q train service
  - Tunnels from 92nd St to 63rd St
  - New Stations at 96th St, 86th St, and 72nd St
  - 63rd St Station Connection
  - Track & Systems from 105th St to 63rd St
  - Service between 96th St & Brooklyn via Broadway Line

Phase 1: Target Cost-$4.451B--- Ridership 200,000 --- Target Completion Date-2016
Current Project Status

• The Second Avenue Subway Project is on time and on budget for a December 2016 completion

• Overall Construction is 93.5% complete as of April 1, 2016

• All 10 SAS Contracts have been awarded for Phase 1

• 5 Construction Contracts Completed:
  – Tunnel Boring Machine Tunneling
  – 86th St Excavation, Utility Relocation, and Road Decking
  – 96th St Site Work and Heavy Civil
  – 72nd St Cavern Mining, Tunnels and Heavy Civil
  – 86th St Cavern Mining & Heavy Civil
## 5 Active Contracts

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<th>Work Description</th>
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<td>96th St.</td>
<td>Station Finishes, Systems, Ancillary Buildings and Entrances</td>
<td>89.4%</td>
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<tr>
<td>86th St.</td>
<td>Station Finishes, Systems, Ancillary Buildings and Entrances</td>
<td>81.0%</td>
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<tr>
<td>72nd St.</td>
<td>Station Finishes, Systems, Ancillary Buildings and Entrances</td>
<td>81.4%</td>
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<td>63rd St.</td>
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<td>97.5%</td>
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<td>All Stations</td>
<td>Track, Power, Signals &amp; Communications, Systems</td>
<td>82.1%</td>
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Stations
**96th Street Station**

Finishes, MEP Systems, Ancillary Buildings and Entrances Contract

Percent Complete: 89.4%

Contract Value: $324,600,000

Award Date: June 22, 2012

Forecast Completion: October 2016
96th Street Station Progress

Contract C2B is 89.4% complete

- Nearly all sidewalks restored along west side of Second Avenue
- First layer of roadway on west side complete
- Permanent power as of February 1\textsuperscript{st} with all feeders now online
- Power to communications and signals rooms, in process
- Installation of platform elevator in process

MTA

Ceiling Panel installation at platform level
Sidewalk restoration west side of Second Avenue between 96th - 97th Streets
Sidewalk restoration west side of Second Avenue between 94th - 95th Streets
Ancillary 2 – Stairs with railing and clips for granite façade installed
Southwest corner of 97th Street & Second Avenue
Installation of art tiles on mezzanine level
95th Street & Second Avenue
Mezzanine ceiling panel installation
96th Street & Second Avenue
Installation of platform pavers and yellow tactile warning strip

94th Street & Second Avenue
Installation of platform elevator
95th Street & Second Avenue
Track wall tiles installed
94th Street & Second Avenue
Three-Month Look Ahead

• Sidewalk restoration on the east side of Second Avenue

• Roadway restoration on both east and west sides

• Testing of mechanical, electrical, and plumbing systems

• Installation of louvers, supports, and granite façade at Ancillary 1 & Ancillary 2

• Installation of art in public areas at entrances and on mezzanine level

• Installation of Entrance 3 glass canopy
96th Street Entrance 3 rendering
Southwest corner 96th St and Second Avenue
Rendering of 96th Street Station proposed art installation
Artist – Sarah Sze, MTA Arts and Design
Finishes, Entrances, Ancillaries, and MEP Systems Contract

Percent Complete: 81.0%

Contract Value: $223,000,000

Award Date: June 12, 2013

Forecast Completion: November 2016
86th Street Station Milestones

- Station facility power is 87% complete – permanent power is to be completed by mid-May

- Construction of Ancillary 2 (northwest corner of 86th Street) has reached street level

- The structural frame for the elevator at E. 86th Street has been installed

- All track has been installed

- Street and sidewalk restoration is 37% complete
Installation of wall panels and floor tiles at mezzanine level
Installation of escalators at E. 86th Street entrance
Elevator at southeast corner of E. 86th Street
Ancillary 1 at northwest corner of E. 83rd Street
Three Month Look Ahead
86th Street Station Area

Surface Level Construction

E. 78th to E. 79th Streets – (center of Second Avenue)
• Center work zone on Second Avenue between 78th and 79th will be dismantled in June

E. 82nd to E. 85th Streets
• Work zones are scheduled to move to the east side of Second Avenue in May for utility relocation and sidewalk/street restoration
• Above ground work on Ancillary 1 (northwest corner of 83rd Street) including installation of building finishes and cooling tower
Three Month Look Ahead
86th Street Station Area

Surface Level Construction

E. 86th Street to E. 87th Streets
• Above ground work on Ancillary 2 structure (northwest corner of 86th Street)
• Deliveries of equipment at Ancillary 2 access shaft (northwest corner of 86th Street)

E. 86th Street between 1st and 2nd Avenues
• Work on the elevator at E. 86th Street
• Traffic reduced to two eastbound lanes and one westbound bound lane
Three Month Look Ahead
86th Street Station Area

Underground Construction

• Installation of:
  • concrete masonry walls at the platform, mezzanine, and upper mezzanine levels
  • architectural finishes: wall panels, tiles, floor tile, acoustical panels and service carriers on the platform and mezzanine levels
  • HVAC ductwork, insulation, chillers, transformers and control panels at all levels
  • electrical conduit at all levels of the cavern and Entrance 1 and 2

• All life safety items such as sprinkler systems, water mist systems, and fire suppression systems are scheduled to be completed and ready for testing by the end of May

• Permanent power will be established in May
86th Street Entrance 2 Rendering
Southeast corner of 86th Street and Second Avenue
86th Street Entrance 1 Rendering
83rd Street and Second Avenue
Rendering of 86th Street Station Art Installation

Artist – Chuck Close, MTA Arts and Design commissioned work

Portraits in mosaic and tile representing NYC cultural figures & family
72\textsuperscript{nd} Street Station

\textbf{Finishes, MEP Systems, Ancillary Buildings and Entrances Contract}

Percent Complete: 81.4\%

Contract Value incl. AWOs: $286.1 M

Award Date: February 14, 2013

Forecast Completion: November 2016
Construction Progress

- Ancillary 2 (northwest corner of 72\textsuperscript{nd} Street and Second Avenue) façade work is underway
- Entrance 3 (southeast corner of 72\textsuperscript{nd} Street and Second Avenue) structural work is near completion
- Ancillary 1 (northwest corner of 69\textsuperscript{th} Street and Second Avenue) structural work is complete
- Entrance 1 (northeast corner of 69\textsuperscript{th} Street and Second Avenue) construction continues
- Installation of mechanical and electrical equipment throughout the station
- Installation of communications and signaling equipment by systems contractor throughout the station
Current Progress

Work trains running at station platform level
Current Progress

Ancillary 1 (northwest corner 69th Street)
Current Progress

Ancillary 2 (northwest corner 72nd Street)
Current Progress

Entrance 3 (southeast corner of 72\textsuperscript{nd} Street and Second Avenue) at street level
Current Progress

Entrance 2 (northwest corner of 72nd Street and Second Avenue) – escalator installed
Three-Month Look Ahead

Main Station Cavern

• Installation of:
  • Wall tiles, floor tiles, ceiling panels, conduits, duct work, service carrier, mechanical, electrical and plumbing systems at the mezzanine level
  • Service carrier, ceiling panels, lighting and signage at the platform level
  • Escalators and elevators from mezzanine to platform level
• Cable pulling through finished conduits
• Track work in station area
Three-Month Look Ahead

Entrance 1

• Architectural finishes and lighting work at Entrance 1 escalator incline (northeast corner of 69th Street and Second Avenue)
• Installation of street and mezzanine-level escalators
• Mezzanine level finishes

Ancillary 1, Ancillary 2, Entrance 3

• Construction of Ancillary 1, Ancillary 2, and Entrance 3 facades
• Equipment delivery and installation at Ancillary 1, Ancillary 2, and Entrance 3
• Electrical and mechanical equipment installation at Ancillary 1, Ancillary 2, and Entrance 3
Three-Month Look Ahead

Miscellaneous

• Concrete truck staging as needed between 74th and 75th Streets
• Use of access hatches at Ancillary 1 and Ancillary 2 to deliver materials to the station
• Con Edison cable pulling to connect Ancillary 1 to Con Edison systems for permanent power
72nd Street Station Ancillary 1 Rendering
Northwest corner of 69th Street and Second Avenue
72nd Street Station Entrance 1 Rendering
Northeast corner of 69th Street and Second Avenue
72nd Street Station Entrance 3 Rendering
Southeast corner of 72nd Street and Second Avenue
72nd Street Station Entrance 2/Ancillary 2 Rendering
Northwest corner of 72nd Street and Second Avenue
72nd Street Station Artwork Concept
Mosaic portraits by Vik Muniz
Rehabilitation of Existing 63rd Street Station

Station Upgrade Contract
Percent Complete: 97.5%
Contract Value incl. AWOs: $190.8 M
Award Date: January 13, 2011
Forecast Completion: Fall 2016
Construction Progress

- Plaza area is complete; MTACC is finalizing turnover to the Royale
- Elevator enclosure work is complete
- Architectural finishes are near completion and station systems testing is underway
Three-Month Look Ahead

Station

• Completion of ceilings, wall tiles, lighting, and column enclosures
• Testing of elevators and escalators
• Testing of mechanical, electrical, and plumbing systems in new station area
Three-Month Look Ahead

Entrance 1
(200 East 63rd Street)
• Installation of finishes and tiles
• Installation of ceiling panels above escalator incline

Ancillary 2 & Plaza
(northwest corner of 63rd Street and Third Avenue)
• Complete Ancillary 2 terra cotta finishes in May
• Receive materials via sidewalk access hatch on the north side of 63rd Street, west of the existing work zone
Three-Month Look Ahead

Other Surface Work

• Installation of interior finishes at Entrance 3 (northeast corner of 63rd Street and Third Avenue) and Entrance 4 (southwest corner of 63rd Street and Third Avenue)
• Remaining sidewalk restoration work

Third Avenue Storage/Work Zone
(Third Avenue between 63rd and 64th Streets)

• 60’x 12’ trailer with office space for personnel, on the west side of Third Avenue between 63rd and 64th Streets
• Work zone on 63rd between Third and Lexington Avenues for storage of materials
Current Progress
(SE corner of 63rd Street & Third Avenue)

Artwork installation at Entrance 1
Current Progress
(SE corner of 63rd Street & Third Avenue)

Entrance 1 escalator installation
Current Progress
(NW corner of 63rd Street & Third Avenue)

Plaza restoration
Current Progress
(NW corner of 63<sup>rd</sup> Street & Third Avenue)

Entrance 2 (elevator entrance)
Current Progress
(SW corner of 63rd Street & Third Avenue)

Entrance 4
Current Progress

Lower level elevator bank
Systems Installation

96th St. Signal Relay Room testing ongoing

**Track, Power, Signals and Communications Systems Contract**
Percent Complete: **82.1%**
Contract Value incl. AWOs: **$282.8 M**
Award Date: **January 18, 2012**
Forecast Completion: **October 2016**
Systems Installation

• Track installation complete - 22,000 ft.
• Aluminum 3rd rail installed - 18,650 ft.
• Commenced installation of insulated joints in the 96th St. Station area

Note: Track as reported here consists of 2 rails and includes Special Work Portions

• Traction Power work ongoing for three substations and four circuit breaker houses
  • 96th St. preparing to be energized by Con Ed
  • 86th St. Station continues to be built out
  • 72nd St. Station nearing completion
  • Pulling of Traction Power Feeder cables is ongoing
Systems Installation

• Signal equipment being installed in relay rooms and central instrumentation room.

• Breakdown testing underway in the 86th St. Station CIR and 96th St. Station Relay Room; completed for 72nd St. Relay Room.

• Wayside equipment installation - 95% complete

• Installed equipment in 20 out of 24 communication rooms.
Systems Installation

• Installation of inter-station communication cables between 86th Street and 105th Street – completed

• Cable installation at all stations:
  • Radio Antenna Cable - 90% installed
  • Fiber Optic Cable - 80% installed
  • PA/CIS cables - 85% installed

• Fiber Optic cable pulling:
  • 63rd Street and 96th Street - 90% completed
  • 86th Street - 5% completed
  • 72nd Street - 80% completed
Questions