

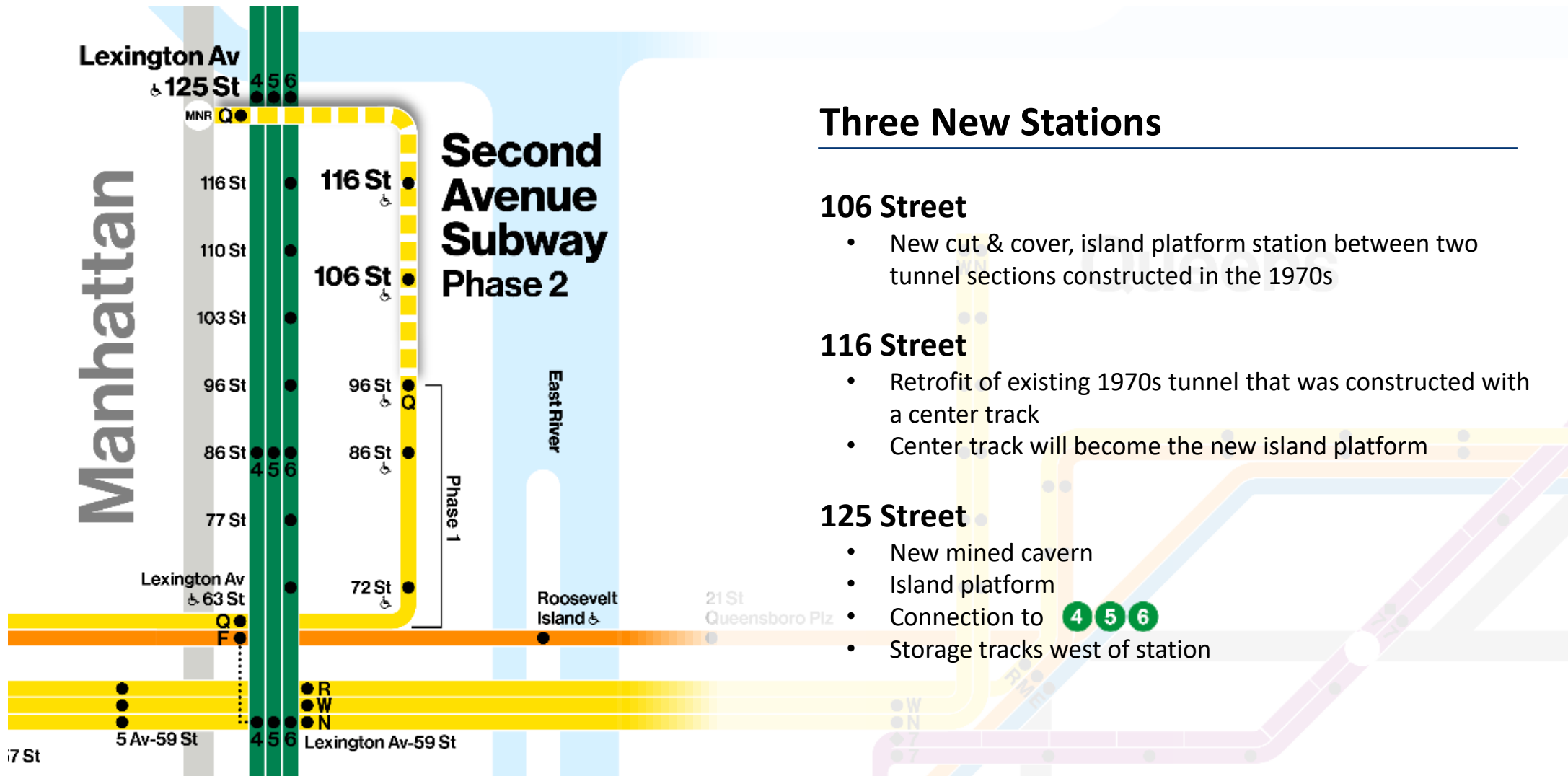
Second Avenue Subway Phase 2

Update to East Harlem Elected Officials –
February 16, 2024

Second Avenue Subway Phase 2, Contract 1:
Utility Relocation and Building Remediation



Phase 2 – Extension of Q Line



Three New Stations

106 Street

- New cut & cover, island platform station between two tunnel sections constructed in the 1970s

116 Street

- Retrofit of existing 1970s tunnel that was constructed with a center track
- Center track will become the new island platform

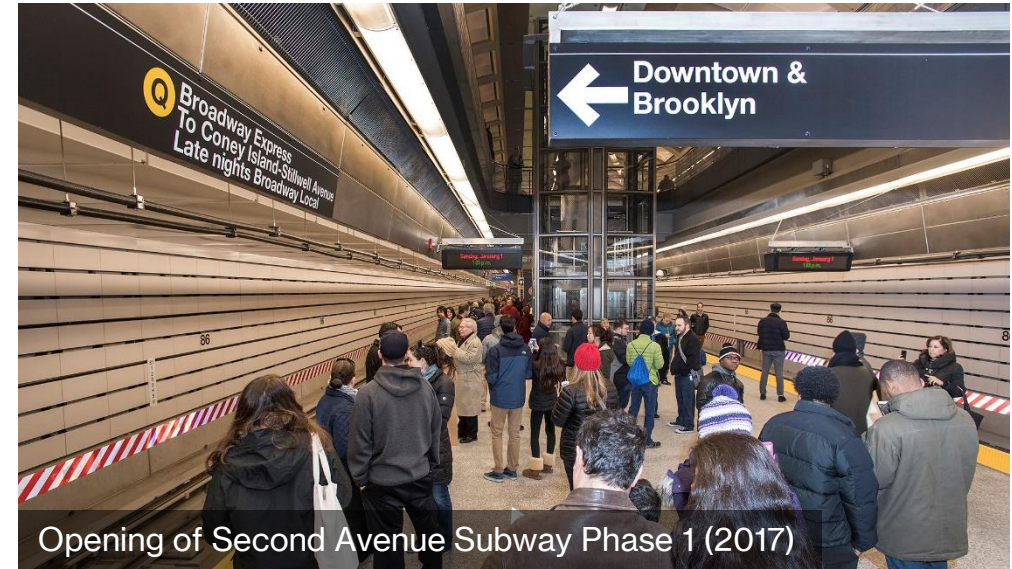
125 Street

- New mined cavern
- Island platform
- Connection to 4 5 6
- Storage tracks west of station





Second Avenue Subway has been long-promised

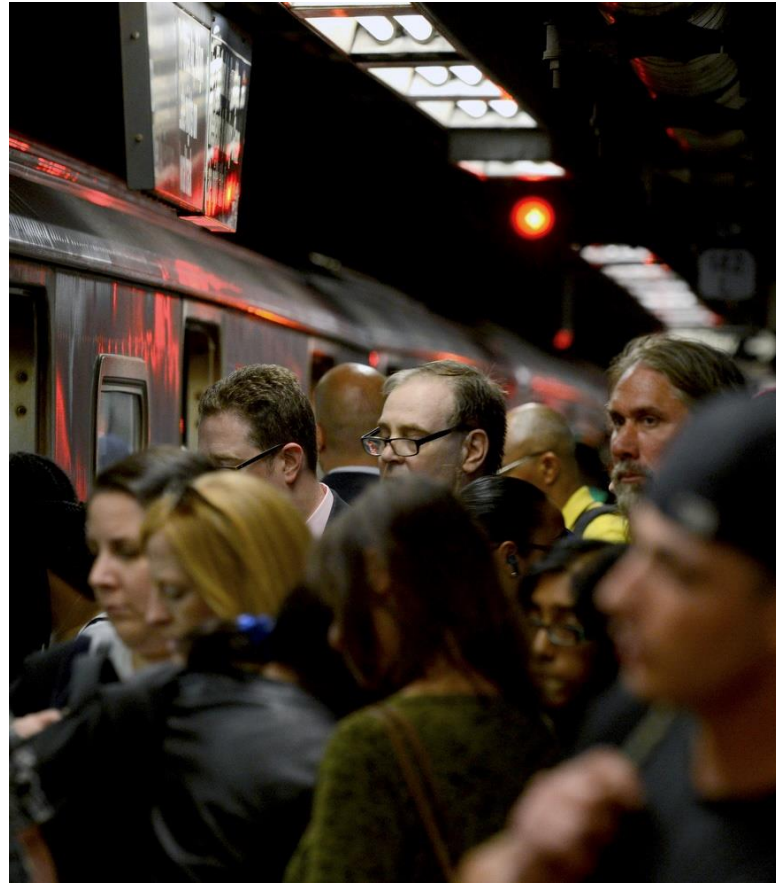


Phase 1 has been a great success for our customers

From the moment it opened, its benefits have been clear.



200,000+ peak daily riders



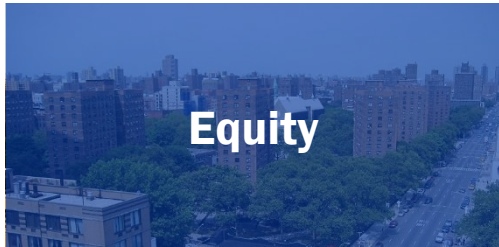
Relieved crowding on the 456



High customer satisfaction



Phase 2 delivers the project East Harlem deserves



- 70% of residents rely on transit, 34% below poverty, 86% people of color
- Densest census tracts within the U.S.
- One of largest concentrations of affordable housing in U.S.



- Three new ADA-accessible stations
- Shorter commute times – some riders save up to 20 min
- One seat ride from East Harlem to UES, West Midtown, Coney Island
- Reduces crowding, increases reliability on 4/5/6



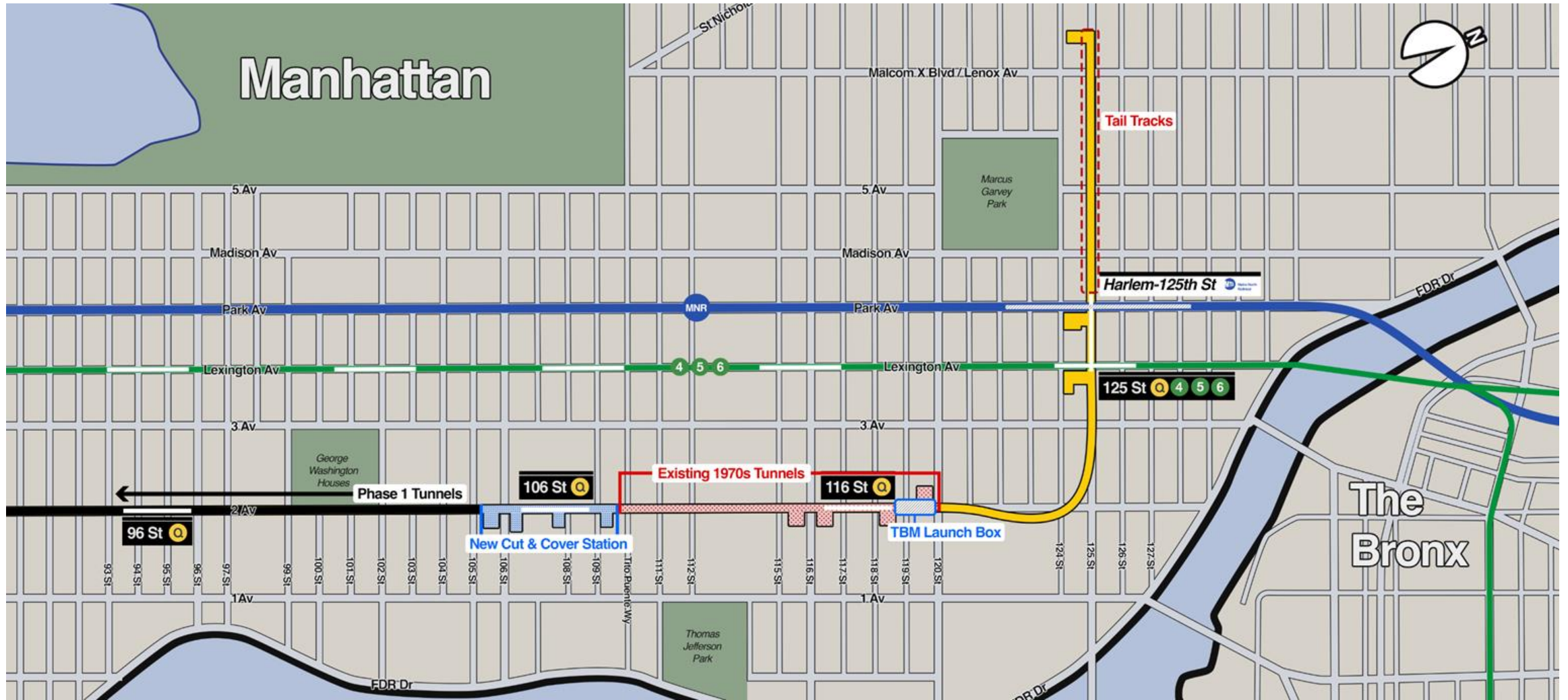
- Union-wage construction jobs
- Local hiring goals



- Helps MTA maintain high transit mode share
- Supports dense, energy-efficient land use



Project Overview



Contract 1 Marks the Beginning of Phase 2 Construction



Jan 2017
Phase 1 Opened

Nov 2023
FFGA Awarded

Dec 2023
Contract 1 Awarded
Early Utility Relocation

Dec 2022
FTA Risk Assessment
Completed

June 2023
Critical Properties Acquired

2024+
Award of Future Contracts
for Tunnelling and Stations



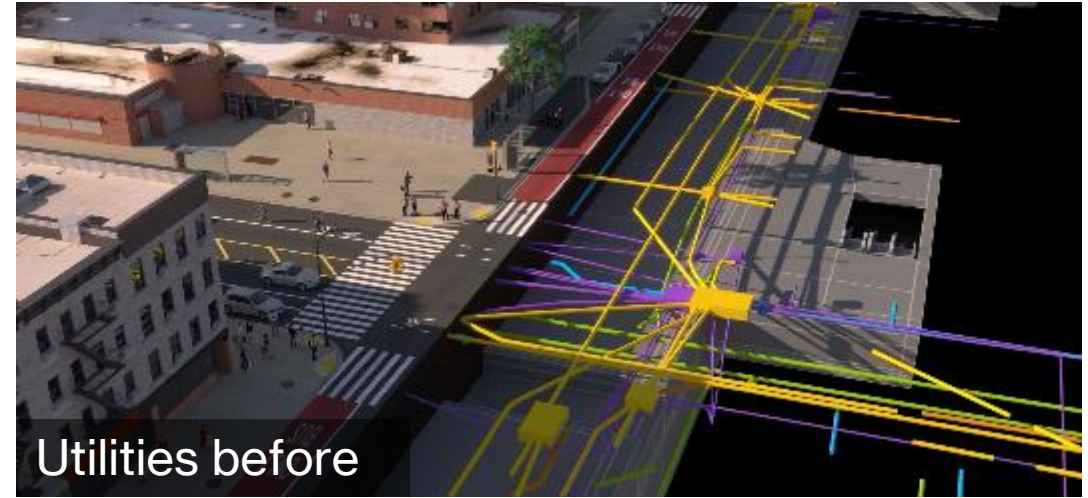
Contract 1 - Utility Relocation

Details

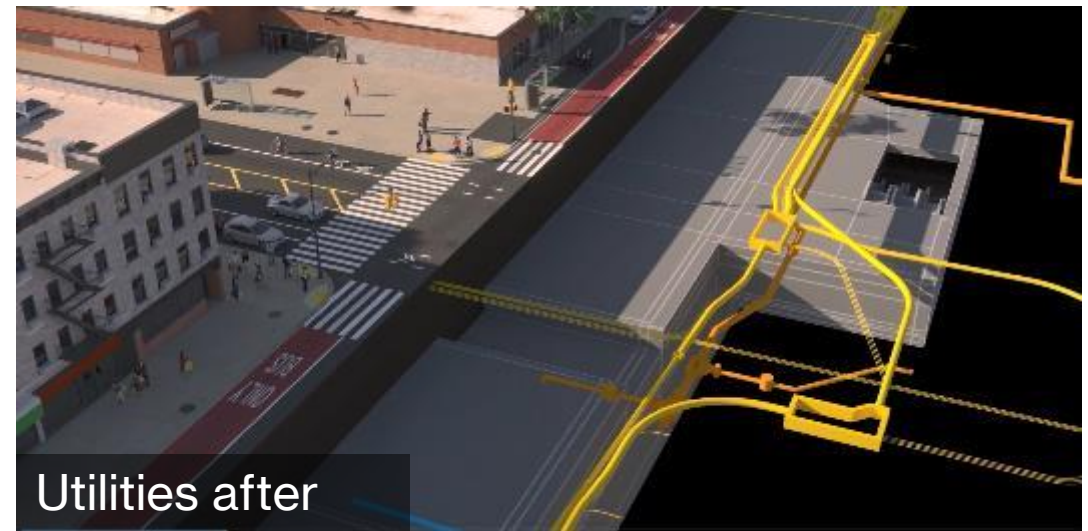
- Contractor: C.A.C. Industries, Inc.
- Budget: \$182 million, including third-party contract and support costs

Scope:

- Relocate underground utilities from 105 St to 110 St
- Temporary streetscape modifications, including new bike lanes
- Building remediation, strengthening, and underpinning in preparation for new 106 St station

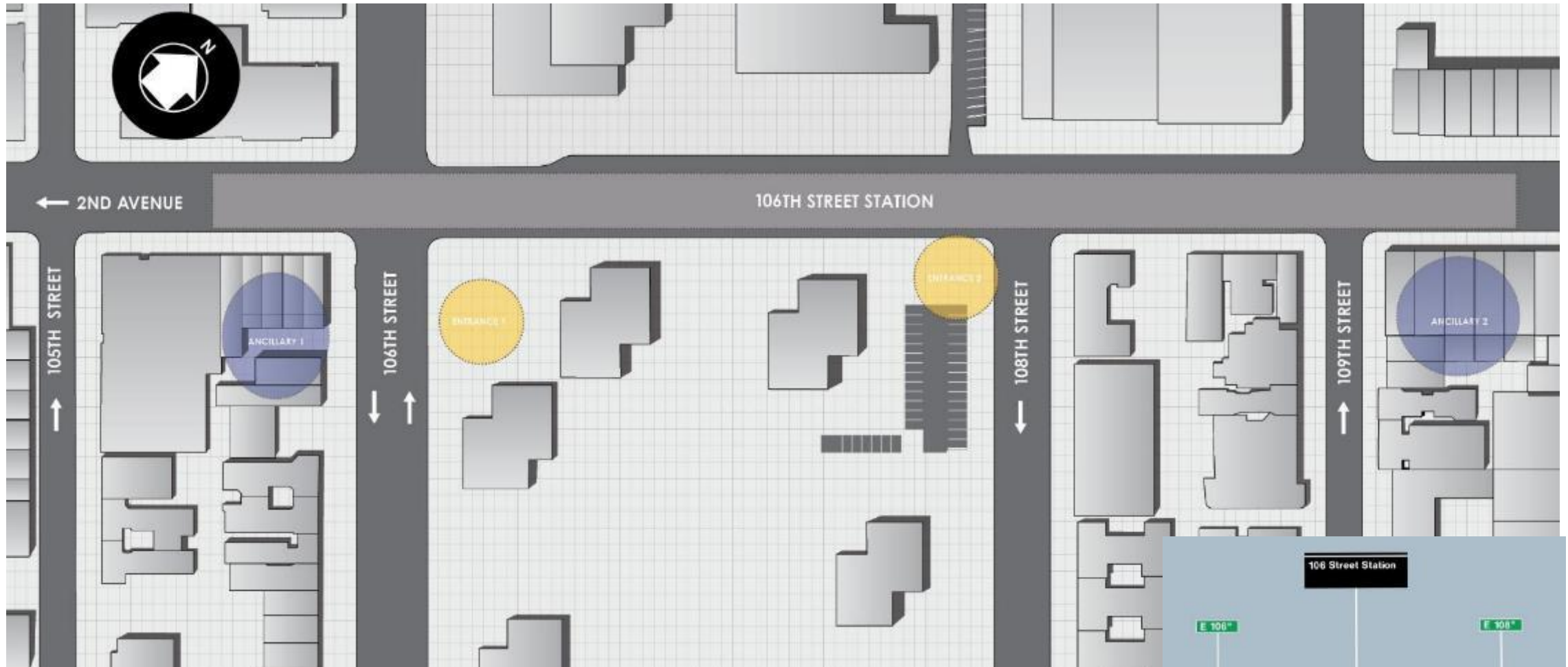


Utilities before



Utilities after

106th Street Station Area



- Proposed Entrances = 2
- Proposed Ancillaries = 2

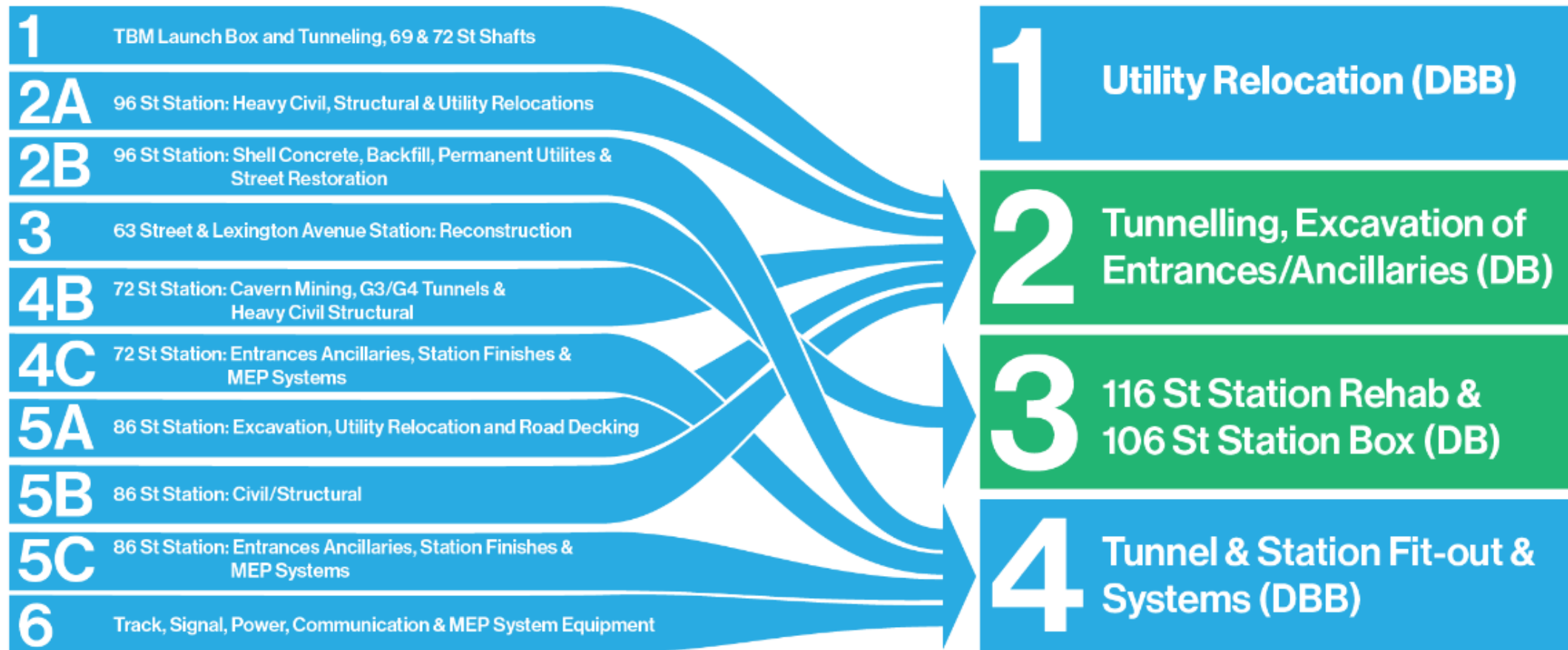


106th Street Station Entrance 1



Where We Are In The Process: Contract 1 Utility Relocation

Fewer contracts with strategic use of design-build



Utility Relocation: Clearing a Path For The Subway



Construction & Development

Schedule

| Activity | Start | Finish | Duration |
|---|-------------|----------------|-----------|
| 1st Ave Bike Lane (103rd - 112th) | March-2024 | April-2024 | 2 Months |
| 1st Ave Bike Lane (112th - 124th) | April-2024 | September-2024 | 5 Months |
| 2nd Ave West Side Cut Back (104th - 111th) | March-2024 | May-24 | 3 Months |
| 2nd Ave East Side Construction (104th - 112th) | May-2024 | April-2025 | 11 Months |
| 2nd East Side Construction (104th - 112th) including 60" WM in center of 2nd Ave at 105th for new traffic pattern on 2nd Ave at 105th Street | April-2025 | August-2025 | 4 Months |
| 2nd Ave West Side Construction (104th - 111th) | August-2025 | March-2027 | 19 Months |
| Handover to Contract 3 | March-2027 | March-2027 | 0 Months |



Scope of Work

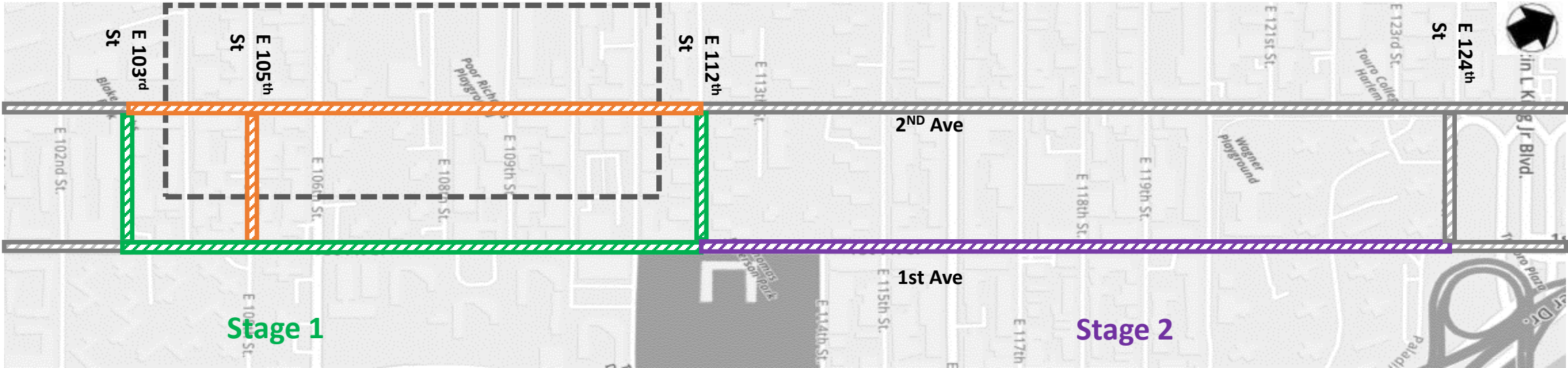
- Instrumentation
- Relocation of Bike lane
- Building Remediation / Underpinning
- Utility Relocation
- MPT
- Environmental / Hazardous Material Work








Current 2nd Ave. Bike Lane



Relocation of 2nd Ave. Bike Lane to 1st Ave

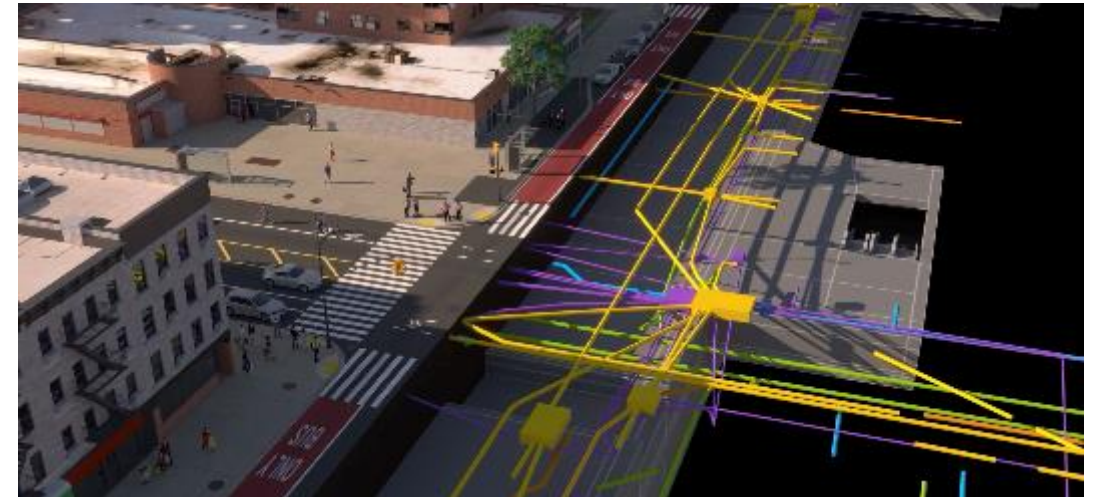


- LEGEND:**
-  EXISTING BIKE LANE TO BE REMOVED
 -  PROPOSED BIKE LANE TO BE INSTALLED – STAGE 1
 -  PROPOSED BIKE LANE TO BE INSTALLED – STAGE 2
 -  EXISTING BIKE LANE TO REMAIN
 -  C26201 PROJECT LIMITS



Contract 1: Advanced Utility Relocation

By getting utilities addressed first, we reduce risk and cost.



Phase 1 unanticipated utility relocation led to 12 months of delays across the 10 contracts

In Phase 2, utilities are relocated in advance of construction start

Maintenance and Protection of Traffic (MPT)

Second Avenue

- Four (4) lanes to be maintained or as shown on the plans
 - One (1) 11' wide and three (3) 10' wide lanes

Major Cross Streets (106th Street)

- A 13' wide shared lane in each direction with provision for bikes to be provided
- A separate left turn lane to be provided

Minor Cross Streets

- A 13' wide travel lane to be provided

Min. 7' wide sidewalk/pedestrian walkway to be provided at all times

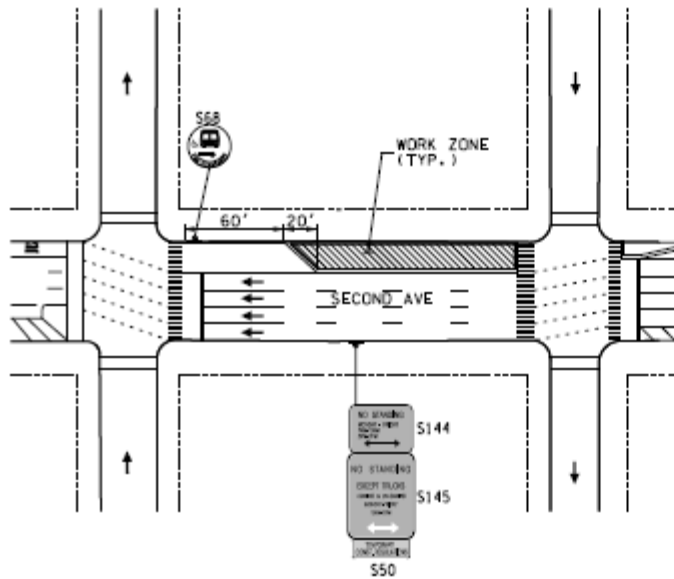


Maintenance and Protection of Traffic (MPT): Mitigations

- School Accommodations
 - School bus loading/unloading zone
 - School Staff Parking
 - School Access and Operation
- NYCT bus stops (accommodation of bus stop within work zones)
- Garbage pick-up location (residential and commercial)
- Commercial loading zone
- Bike Lane Relocation
- Maintain access to residences & businesses at all times
- Maintain FDNY access through work zone and FDNY access to hydrants and standpipes
- Pedestrian Safety and Community Relations
- PED Managers Required By Contract

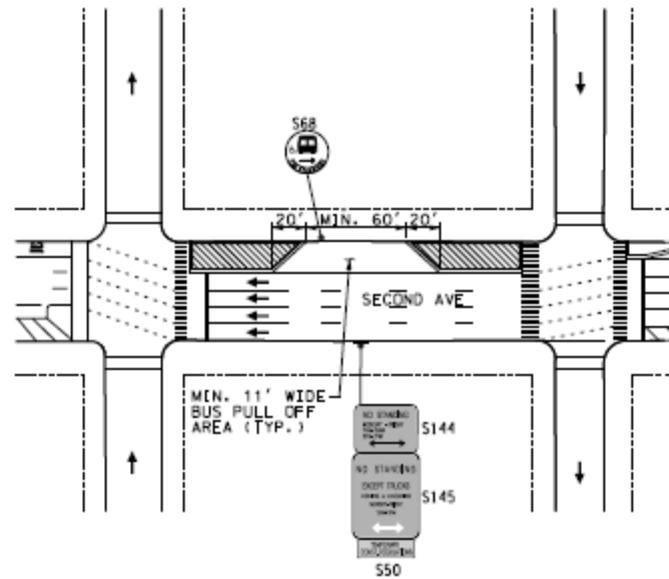


Temporary Bus Stop Construction Layouts – Exact Locations TBD



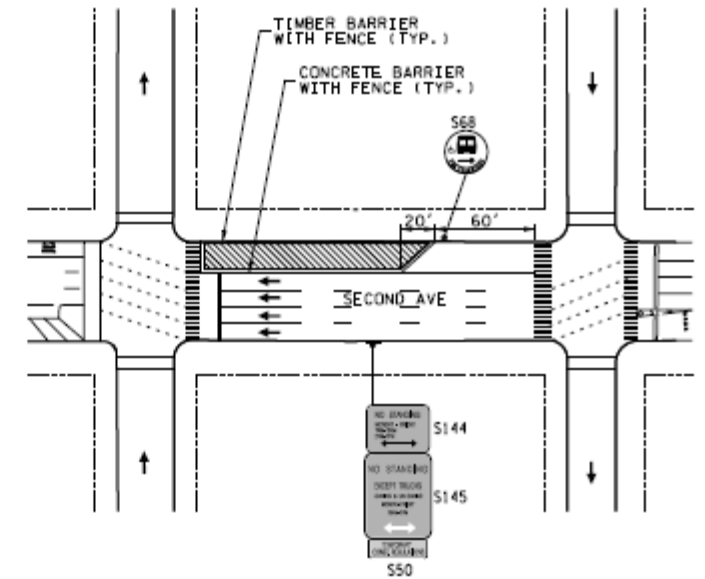
CASE 1 – BUS STOP LOCATION AT SOUTH END OF BLOCK (WORK ZONE IN CURB LANE)

N.T.S.



CASE 2 – BUS STOP LOCATION AT MID-BLOCK (WORK ZONE IN CURB LANE)

N.T.S.

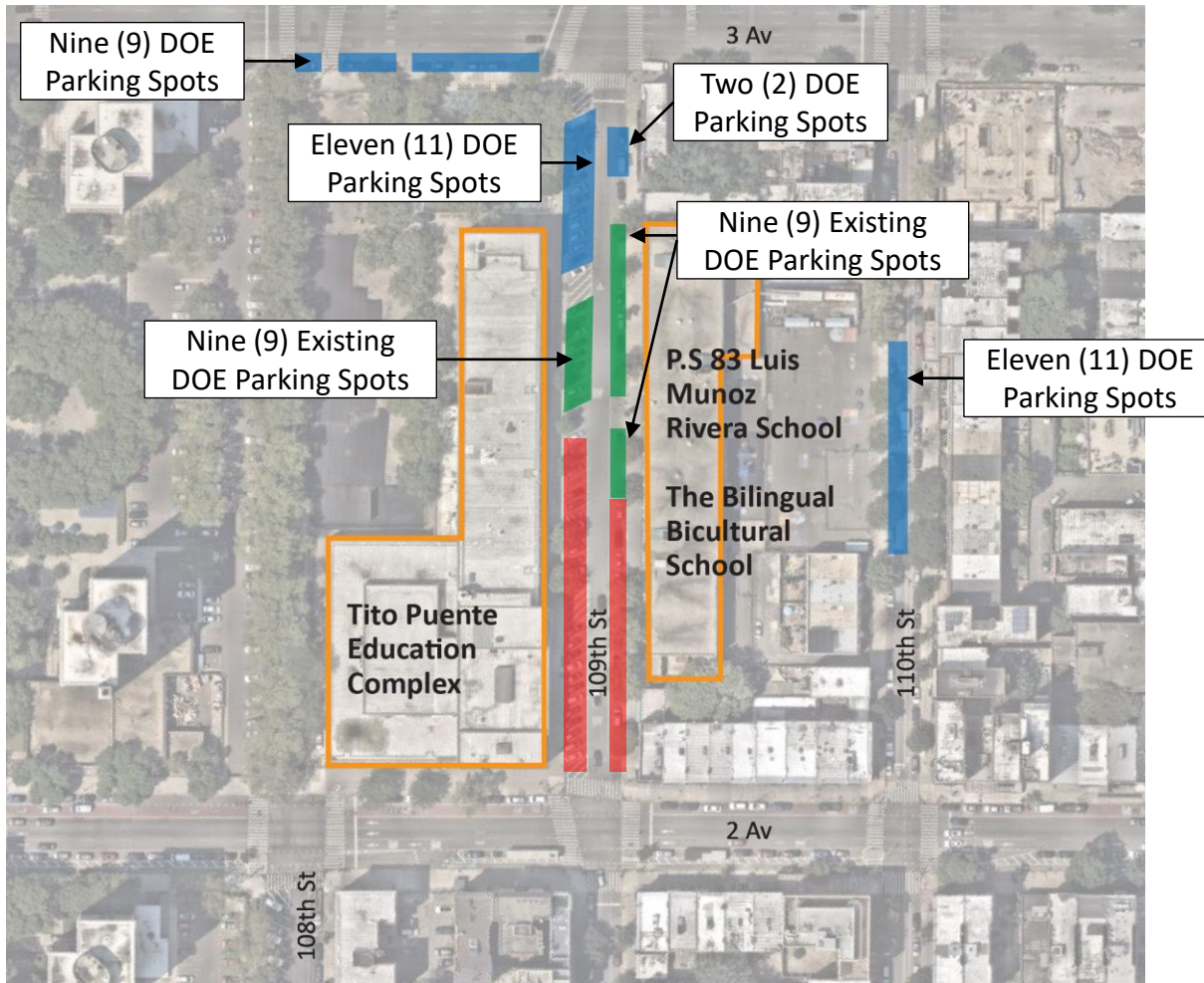


CASE 3 – BUS STOP LOCATION AT NORTH END OF BLOCK (WORK ZONE IN CURB LANE)

N.T.S.



Proposed School Staff Parking During Construction



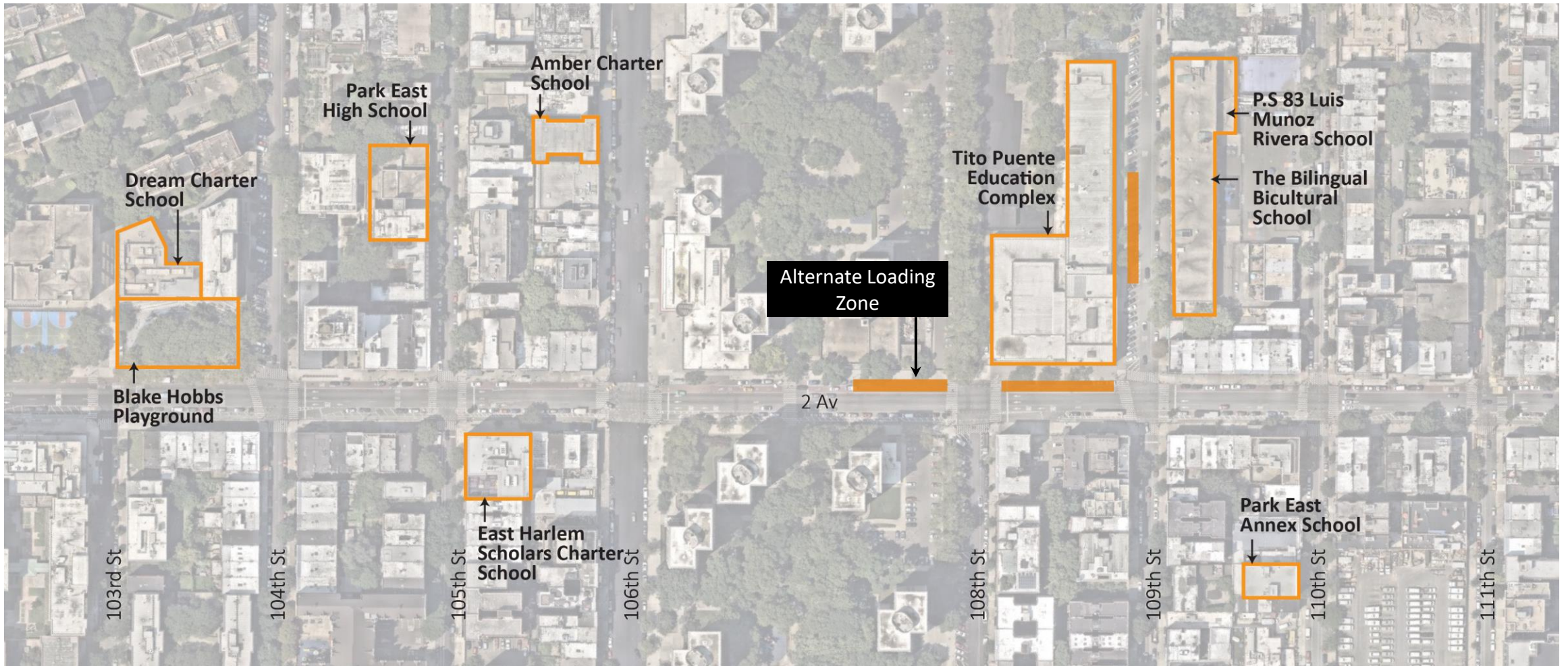
Impacted Parking Spaces



- 29 regular parking spaces will be impacted on 109th Street. (east of existing DOE parking)
- 7 – 15 existing DOE parking spaces will be impacted on 109th Street.

Proposed Parking Spaces

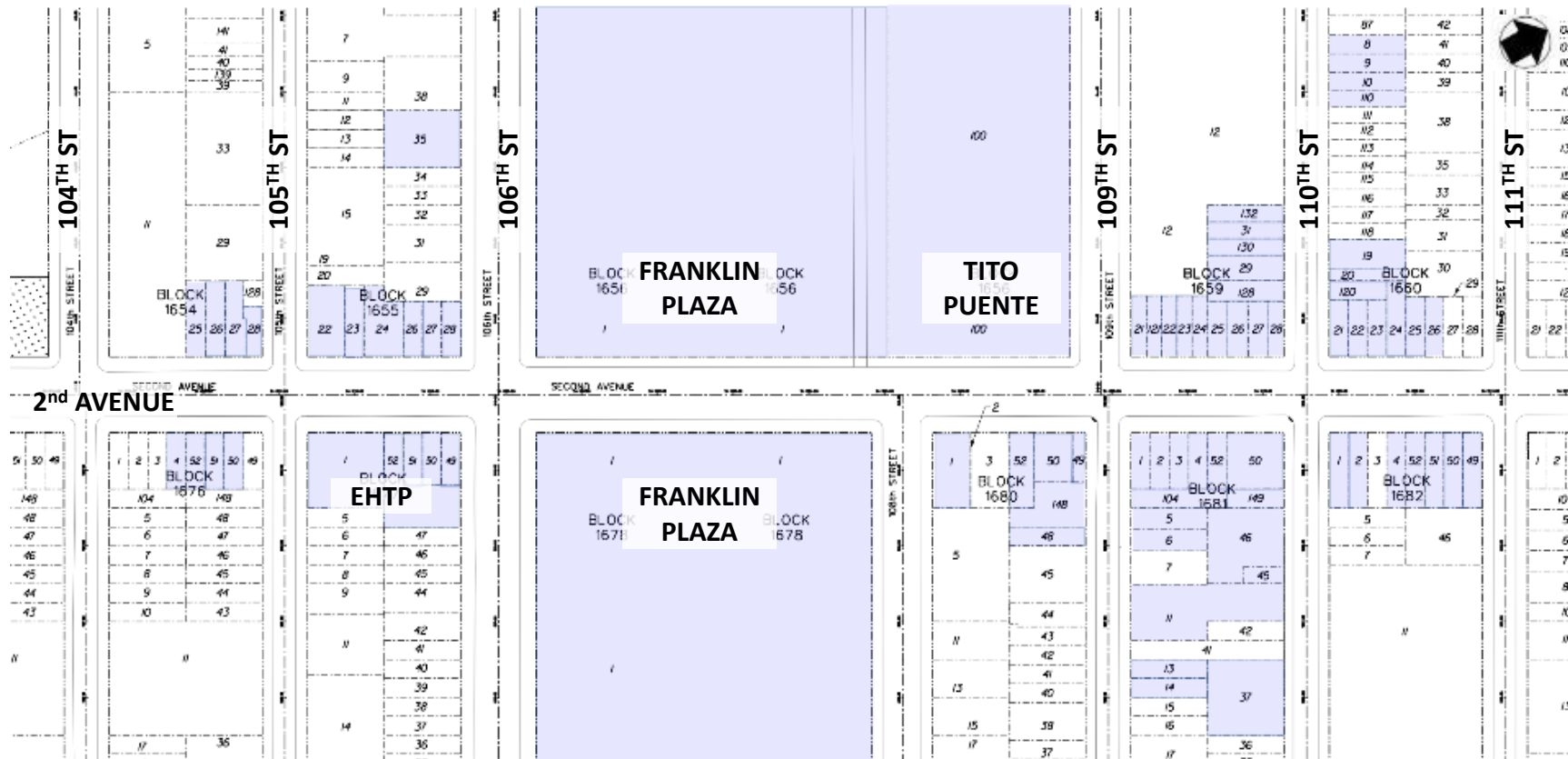
- 10 - 18 existing DOE parking spaces will remain on 109th Street
- 13 regular parking spaces west of existing DOE parking on 109th Street will be converted to DOE parking.
- 9 regular parking spaces on the eastside Third Avenue between 108th and 109th Streets will be converted to DOE parking
- 11 regular parking spaces on the southside of 110th Street between Second and Third Avenues.
- **43 - 51 DOE parking spots available during Construction**

School Bus Loading Zones



 School  School bus loading/ unloading zone

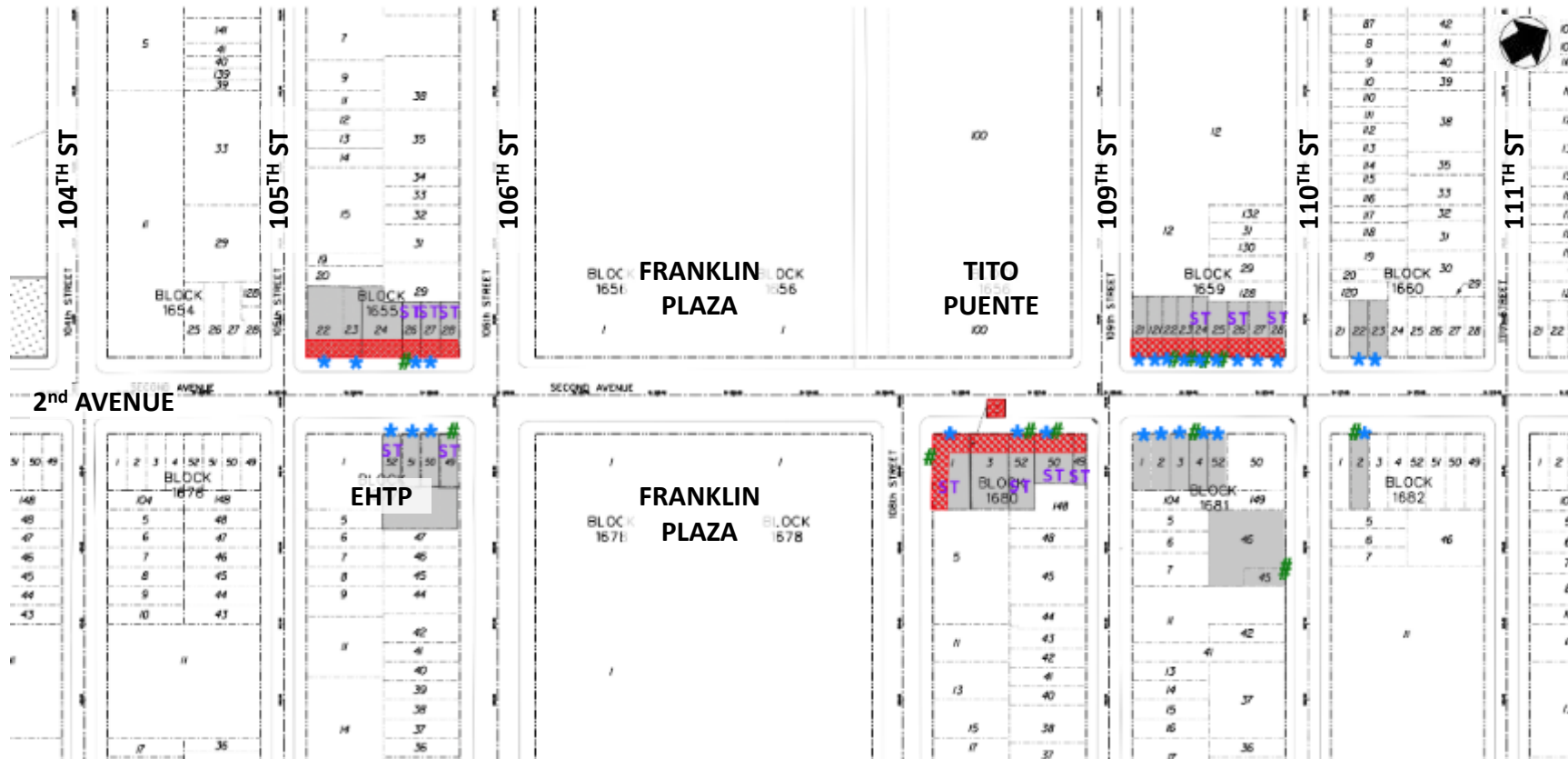
Installation of Instrumentation: 79 Properties







Instrumentation to be installed and handover to following Contract:

- Total Station Target / Prism
- Horizontal Tiltmeter
- Automated Motorized Total Station (AMTS)
- Vertical Tiltmeter
- Crack Gauge
- Portable Seismograph

Building Remediation / Alteration / Underpinning



LEGEND

-  UNDERPINNING = 21 Lots (19 Buildings + 2 Vacate Lots)
 -  ST STRENGTHENING = 12 Buildings
 -  * CELLAR DOOR ALTERATION/REMOVAL = 27 Buildings
 -  # VAULT REMOVAL = 13 Buildings
- 35 IMPACTED PROPERTIES (33 BUILDINGS + 2 VACANT LOTS)**



Building Remediation / Alteration / Underpinning



Underpinning

- Drill new piles adjacent to original foundation
- Install steel bracket to connect piles to original foundation
- Jack new bracket to existing foundation to transfer load

In Coordination with

- Property Owners
- Merchants
- Residents
- NYC DOB
- NYC DOT
- NYS HCR



Sidewalk in Current State



Sidewalk Cutback 10 Feet



Sidewalk Cutback 7 Feet



Keeping You Informed Throughout the Project

The Community Outreach Team will continue to meet and inform community members about project milestones and provide notifications on how the project will impact the community.

- Pop Up Events
- Monthly Newsletters
- Merchant Advisory Letters
- Weekly Eblasts
- Coordination with CB 11 SAS2 Taskforce
- Quarterly Construction Advisory Committee (CAC) Meetings
 - Residential
 - Retail/Commercial



Second Avenue Subway
NEWSPLETTER
**PHASE 2:
EAST HARLEM**
Winter 2024
Visit the
Second Avenue
Subway
Community
Information
Center!

**Historic Funding from the USFTA
Approved for Second Avenue Subway**

**Contract One Utility Relocation and
Building Remediation to Begin in 2024**

Get the Top 100 Jobs in the City
mta.info/cac1/index

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Hours of Operation
Monday - Friday
9AM- 5PM

Sign up for our
E-Newsletter



Questions?



Construction & Development