## **Station ADA Accessibility Analysis**

### 2017

**Station:** Broadway

Type: Elevated Station

MST Ref. No.: 4

Line: BMT-Astoria

Borough: Queens

Versions: Rev Date Compiled By Revision Description

0 12/31/2019 Application Administrator



#### **NYCT - Transit Station Accessibility Profile**

#### **ACCESSIBILITY SOLUTION DESCRIPTION**

The Broadway Station on the BMT Astoria Line is an elevated station located in Astoria, Queens providing service on the N&W trains. The station has a full time control fare area located at the mezzanine level, one level above the street level, at the intersection of Broadway and 31st Street. The station is currently accessible via four existing street to mezzanine stairs at Broadway and 31st Street. There is also one street to platform level 'exit' stair at the south end of the NB platform. Four existing platform stairs provide access to the NB and SB side platforms, one level above the mezzanine/fare control area.

The proposed solution requires the installation of two 2-stop elevators at the southern end of the station platforms (south of Broadway) at the location of the existing NB platform 'exit' stair, each providing travel from the street to NB and SB platforms, respectively. The new NB platform elevator will be provided adjacent to the existing NB 'exit' stair landing. New turnstiles will be installed at the platform level elevator opening, providing a new fare control line, thus converting the NB 'exit' stair into an additional access point to the station. The new SB platform elevator will be provided at the same location as the NB platform elevator.

To further improve station capacity and accessibility, the proposed solution calls for the installation of a new street to platform level stair south of the new SB platform elevator, similar in configuration to the NB platform stair. A new landing structure will also be constructed between the elevator and stair structures to provide a new fare control area. New turnstiles will be installed at the platform level for the new stairs and elevator at the SB platform as well.

There will be a separate EMR for each elevator. It is proposed to provide the new EMRs at the underside of the platform level stair landings (adjacent to the elevators) with hatch door access down into the EMRs. Four additional columns from street to platform level will be required to support the EMR (2 new columns for each EMR).

OTHER ALTERNATIVES STUDIED		
None		

#### **Existing Station Data**

MR#

Station Name / Line Broadway / BMT-Astoria

Borough Queens

Station Type Elevated Station

Total No. of Active Platforms 2

Platform: Mnh Bound Platform Type: Side Width: 11'-10"

Edge: Edge Type: None or paint

Platform: Qns Bound Platform Type: Side Width: 11'-10"

Edge: Edge Type: None or paint

Platform Length and Radii:

MR# Platform Track NB/SB Level Side Length Radius Length of Platform in Curve Curve Side

 4
 Broadway
 1
 SB
 E
 645.00
 Tangent

 4
 Broadway
 2
 NB
 W
 645.00
 Tangent

Accessible Path - Levels Street

Platform

 Historic (Y/N)
 No

 Complex (Y/N)
 No

 Flood Zone (Y/N)
 No

All platform boarding areas

ADA-compliant (Y/N)

No If no, # of non-compliant platform edges: 2

Existing Electric Service Normal: Not Identified

Reserve: Not Identified

Recommended Capacity

Improvement (from Oper-

ations Planning)

Add capacity from n/b platform to street; add street stair capacity

Total # of Control Areas

Utility Information in Appendix II ConEd: Yes

DEP: Yes
ECS: Yes
Nat. Grid: No

Annual Ridership (Year) 4,189,306 (2016)

NTA Name Astoria

Access-A-Ride Data (2017)

Destination Count (Rank) 163 (2)
Origin Count (Rank) 127 (1)

Population with Ambulatory

Disability (Rank)

394 (5)

Population 70+ in 2020 (Rank) 4119 (5) \*

Population 70+ in 2030 (Rank) 5860 (5) \*

Stair Capacity Constrained

(Yes/No)

Yes

Notes:

Station Congestion Status Severe (Data from Operations Planning)

<sup>\*</sup> Data from NYC Dept. of City Planning 2010

### **Station Analysis Summary**

Cost Index Summary	<u>Description</u> Scenario A		<u>Bid</u>		<u>Total</u>
Elevators	bou	eet to platform (Manhatta und)		<u>Type</u> Holed Hydraulic	No. of Stop
	Str	eet to platform (Queens	bound)	Holed Hydraulic	
Control Area	Accessibility solution requires new control area				
Ramps	Total #: 0				
Congestion Solution	Accessibility solution can incorporate solution to reduce congestion				
Proposed Capacity Improvement	Additional street to platform level stairs constructed to the SB platform, west of the intersection along 31st Street.				
		the NB 'exit' stair into a n	-		
Affected Station Components	turnstiles at NE	B platform landing, creation	ng an additio	nal fare control ar	ea.
Accessibility Challenges					
Mezzanine Extension (Y/N)	No				
Overpass Structure (Y/N)	No				
Real Estate (Y/N)	No				
Stakeholders:	□ NYCD0 □ Other	OT □ NYC Parks	□ Private		
Power Upgrade Required (Y/N)	Yes				
Major Utilities Impacted (Y/N)	No				
Underpinning Required (Y/N)	No				
Other (Y/N)	No				

## **Cost Estimate**



## **Concept Solution Drawings**







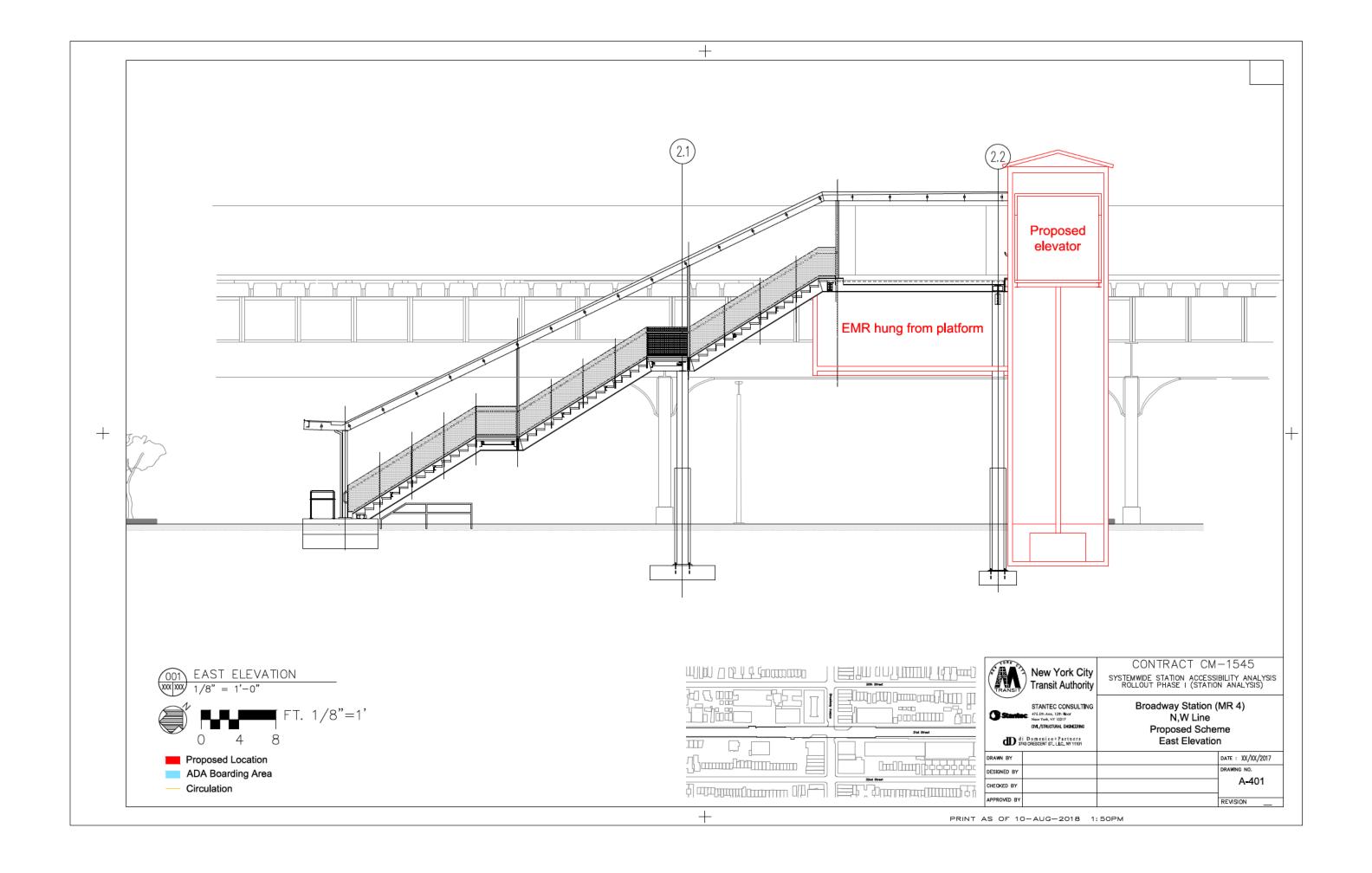






















## **Team Review Comments**



# Appendix II Existing Utility Information

## Appendix III NYCT Archive Drawings

