

Volume 2: Engineering Drawings

Bay Ridge Connector Feasibility Study and Alternatives Analysis



APPENDIX CONTENTS

- 2.1 Conceptual Engineering: Plan & Profile
- 2.2 Conceptual Engineering: Typical Sections
- 2.3 Property Impact Mapset

Note: these appendices represent work performed during the IBX Feasibility Study. Further conceptual engineering was performed during the subsequent Planning & Environmental Linkages (PEL) study phase. As such, please note that the project alignment shown below may be outdated. For further information, please refer to the updated plan and profile drawings found in the PEL study.





Appendix 2.1: Conceptual Engineering: Plan & Profile

Prepared for:

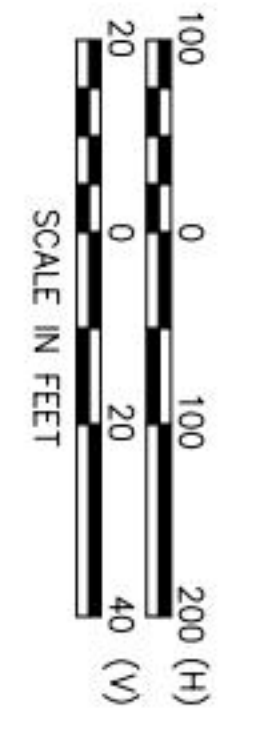
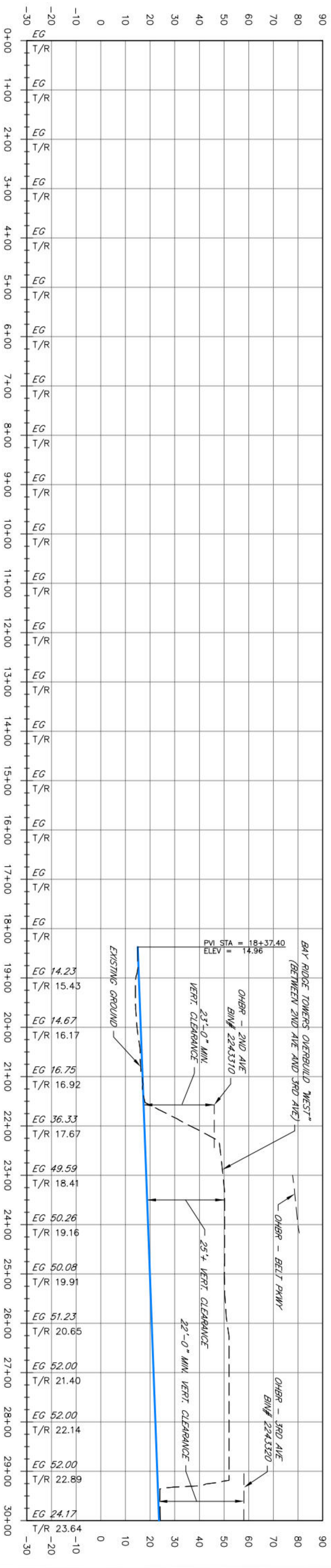
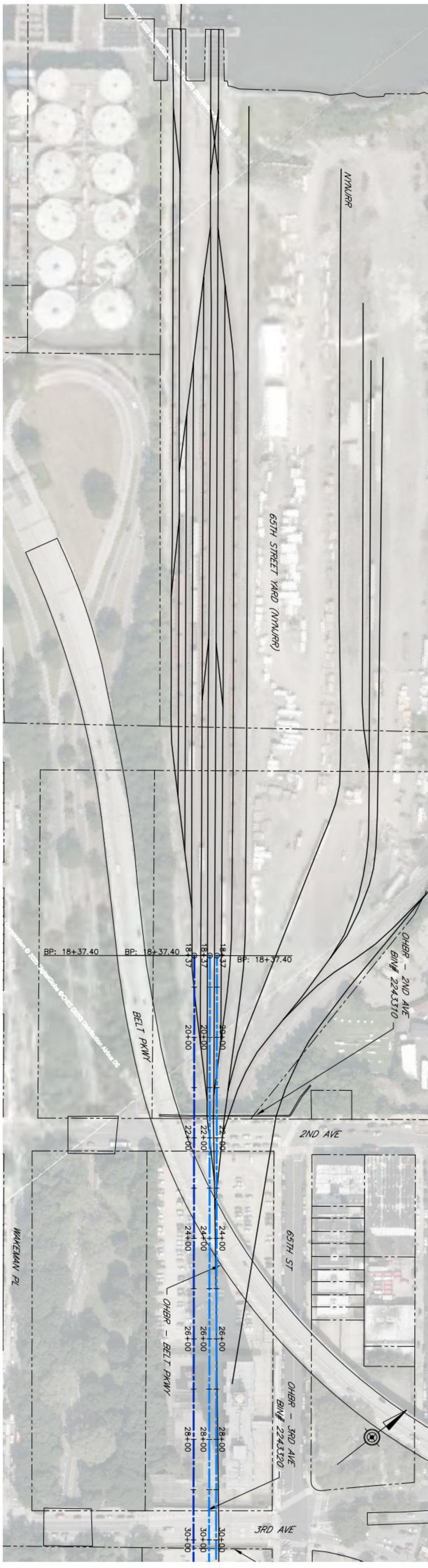
NY Metropolitan Transportation Authority
Transportation Systems Analysis

Prepared by:

The AECOM Team
AECOM USA, Inc.
WSP
Integrated Systems Resources, Inc.
Infinity Consulting Corp.
Sobers Consulting, LLC



February 2021

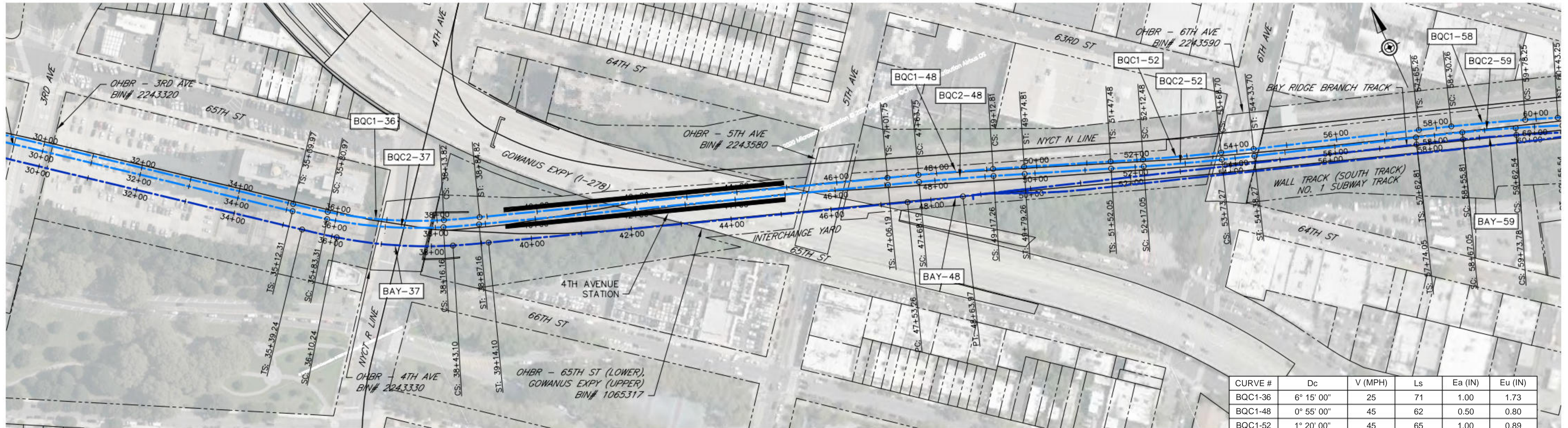


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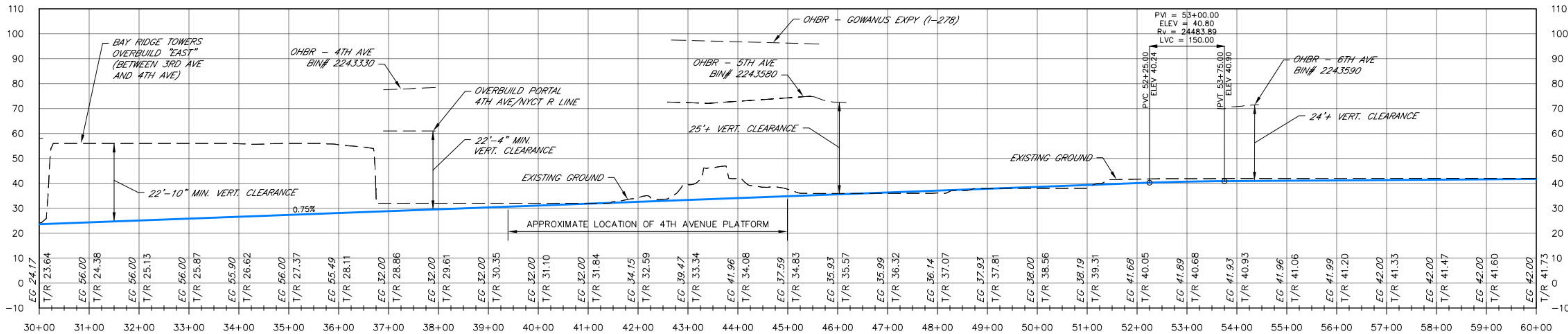
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MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO: 01 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-36	6° 15' 00"	25	71	1.00	1.73
BQC1-48	0° 55' 00"	45	62	0.50	0.80
BQC1-52	1° 20' 00"	45	65	1.00	0.89
BQC1-59	1° 20' 00"	45	65	1.00	0.89
BQC2-37	6° 15' 00"	25	71	1.00	1.73
BQC2-48	0° 55' 00"	45	62	0.50	0.80
BQC2-52	1° 20' 00"	45	65	1.00	0.89
BQC2-59	1° 50' 00"	45	93	1.50	1.10
BAY-37	6° 15' 00"	25	71	1.00	1.73
BAY-48	0° 55' 00"	35	0	0.00	0.79
BAY-59	1° 50' 00"	45	93	1.50	1.10



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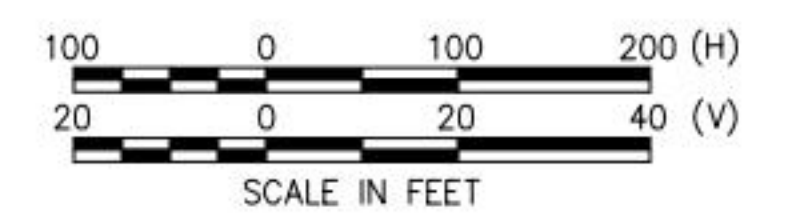
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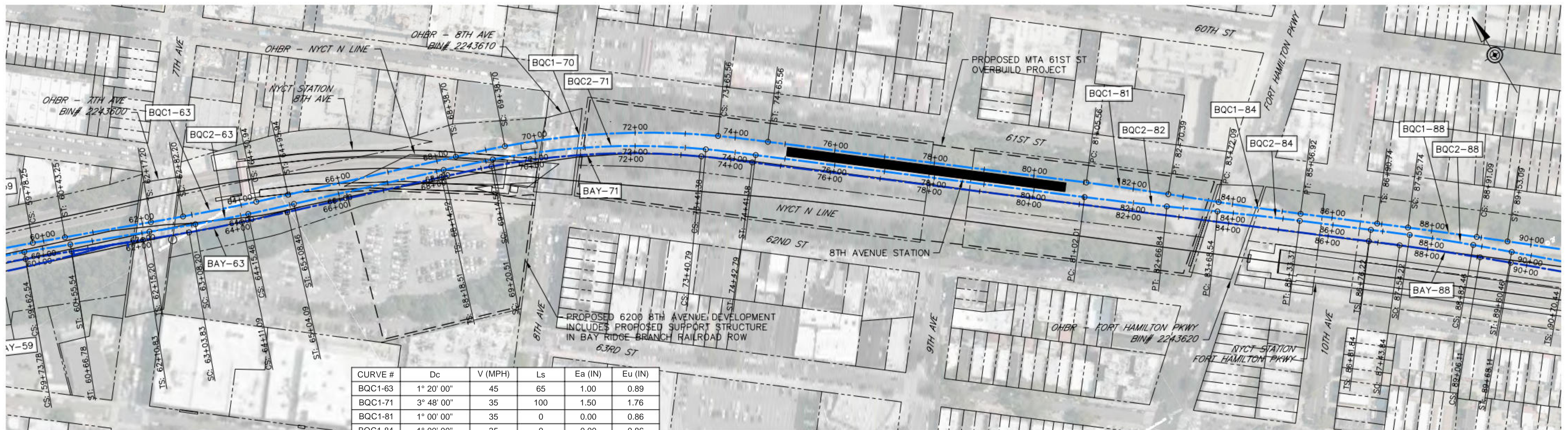


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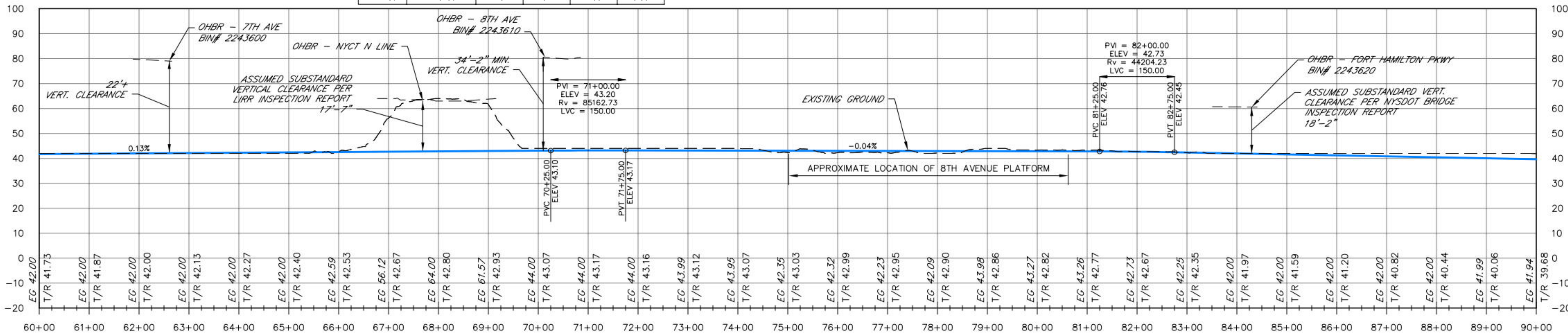
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 1" = 20' (V)
 SHEET NO:
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BQC1-63	1° 20' 00"	45	65	1.00	0.89
BQC1-71	3° 48' 00"	35	100	1.50	1.76
BQC1-81	1° 00' 00"	35	0	0.00	0.86
BQC1-84	1° 00' 00"	35	0	0.00	0.86
BQC1-88	0° 30' 00"	45	62	0.50	0.21
BQC2-63	1° 50' 00"	45	93	1.50	1.10
BQC2-71	3° 48' 00"	35	100	1.50	1.76
BQC2-81	1° 00' 00"	35	0	0.00	0.86
BQC2-84	1° 00' 00"	35	0	0.00	0.86
BQC2-88	1° 35' 00"	45	78	1.25	0.99
BAY-63	1° 50' 00"	45	93	1.50	1.10
BAY-71	3° 50' 00"	35	102	1.50	1.79
BAY-88	1° 10' 00"	45	62	1.00	0.65



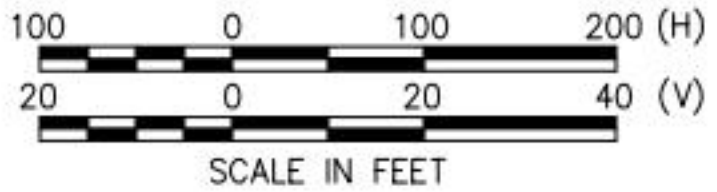
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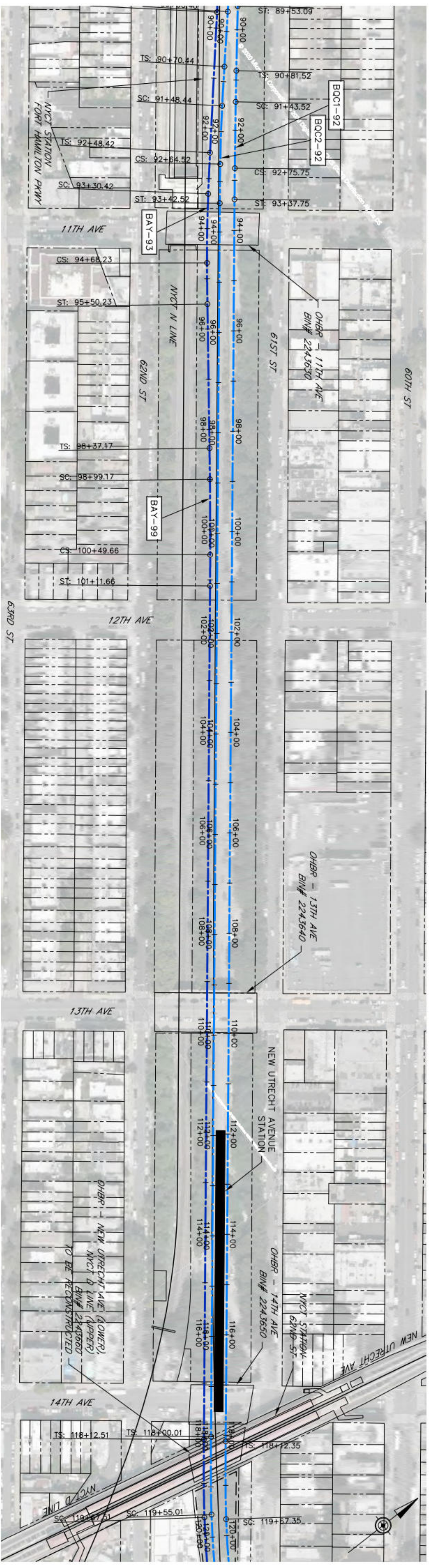
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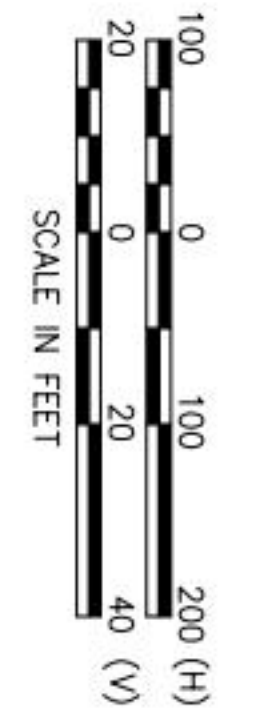
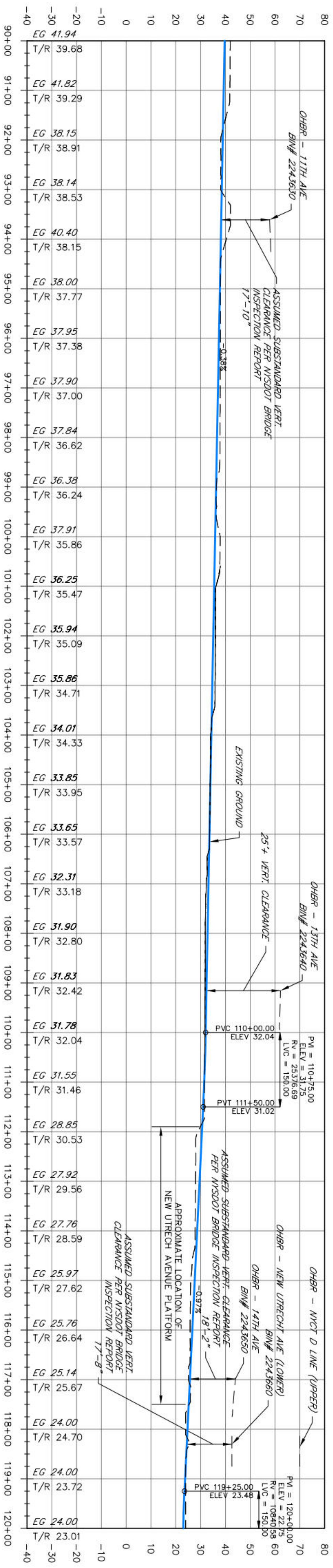
MTA BAY RIDGE CONNECTOR
 CR2 / CR4
 TRACK PLAN AND PROFILE

PROJECT NO:
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 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO: 03 OF 28





CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1-92	0° 25' 00"	45	62	0.50	0.09
BOC2-92	1° 35' 00"	45	78	1.25	0.99
BAY-93	1° 40' 00"	45	82	1.25	1.11
BAY-99	0° 35' 00"	45	62	0.50	0.33



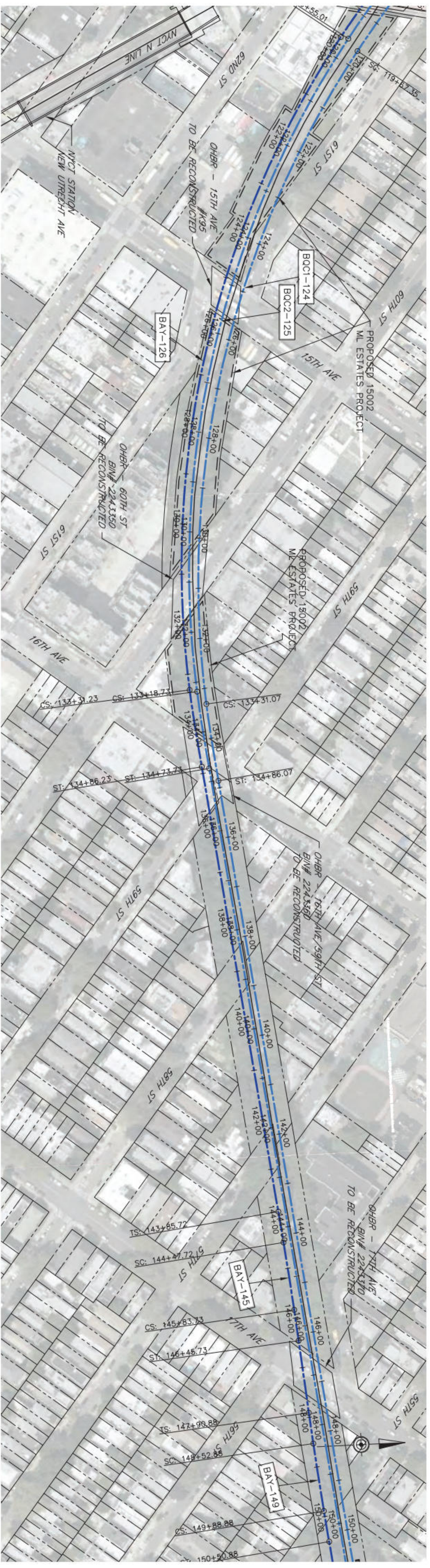
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03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS

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DATE: <td>10-23-2020</td>	10-23-2020

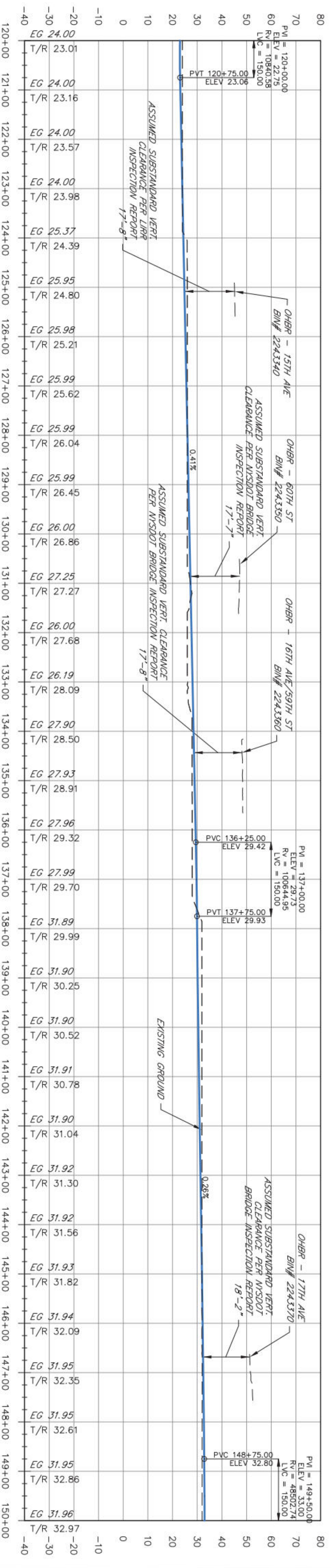
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MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

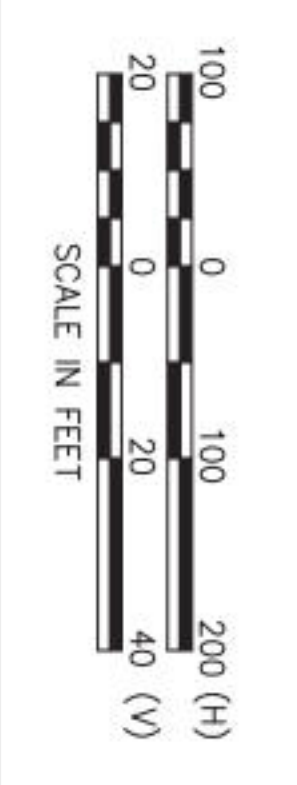
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SCALE: 1" = 100' (H) 1" = 20' (V)	SHEET NO. 04 OF 28



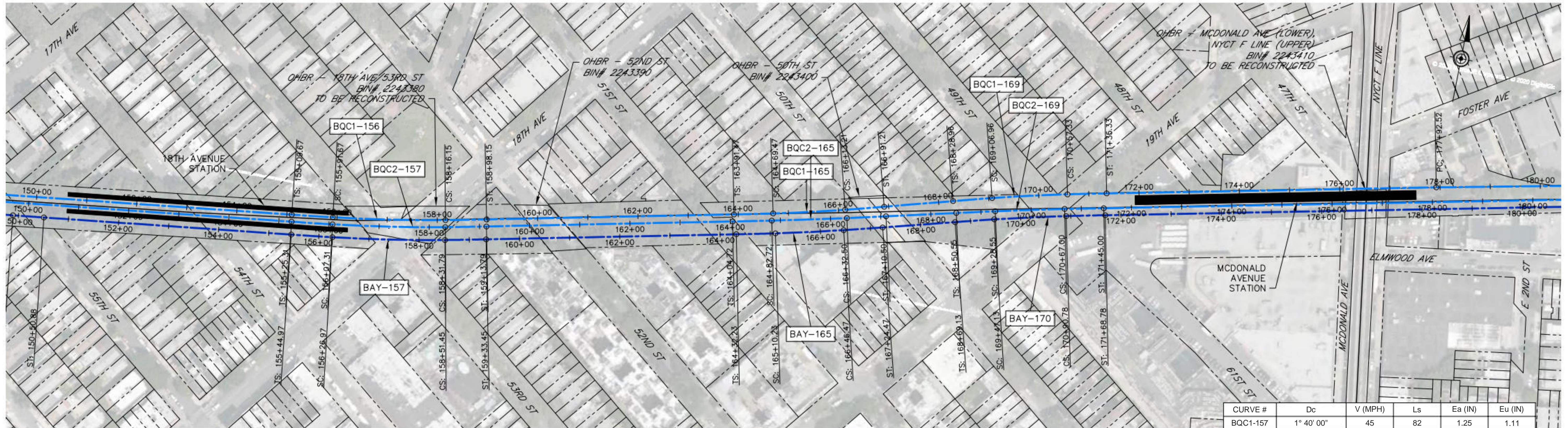
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BOC2-126	3'-00'-00"	45	155	2.50	1.75
BAY-126	3'-00'-00"	45	155	2.50	1.75
BAY-145	0'-50'-00"	45	62	0.75	0.43
BAY-149	0'-50'-00"	45	62	0.75	0.43



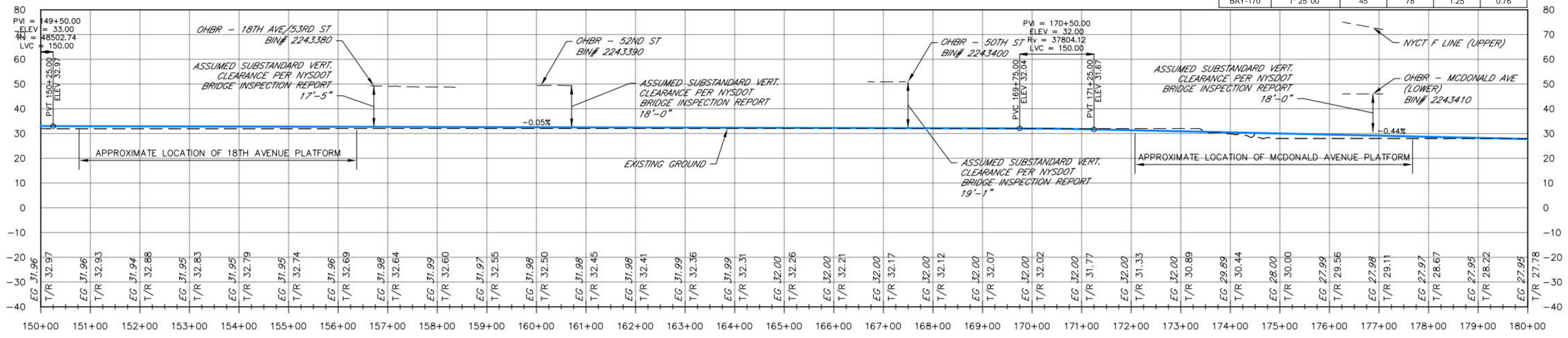
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03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JC	
					CHECKED BY: WVN	
					DATE: 10-23-2020	



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CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-157	1° 40' 00"	45	82	1.25	1.11
BQC1-165	1° 35' 00"	45	78	1.25	0.99
BQC1-169	1° 35' 00"	45	78	1.25	0.99
BQC2-157	1° 40' 00"	45	82	1.25	1.11
BQC2-165	0° 40' 00"	45	78	0.50	0.45
BQC2-169	0° 45' 00"	45	78	0.50	0.56
BAY-145	0° 50' 00"	45	62	0.75	0.43
BAY-149	0° 50' 00"	45	62	0.75	0.43
BAY-157	1° 40' 00"	45	82	1.25	1.11
BAY-165	1° 25' 00"	45	78	1.25	0.76
BAY-170	1° 25' 00"	45	78	1.25	0.76



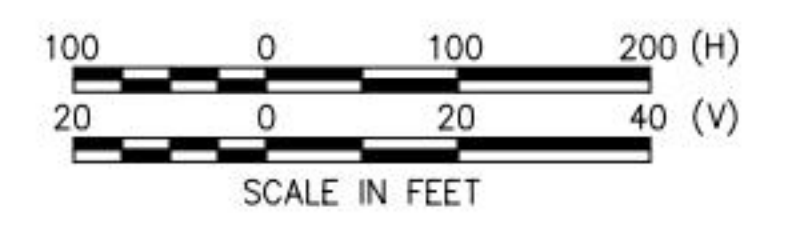
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03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

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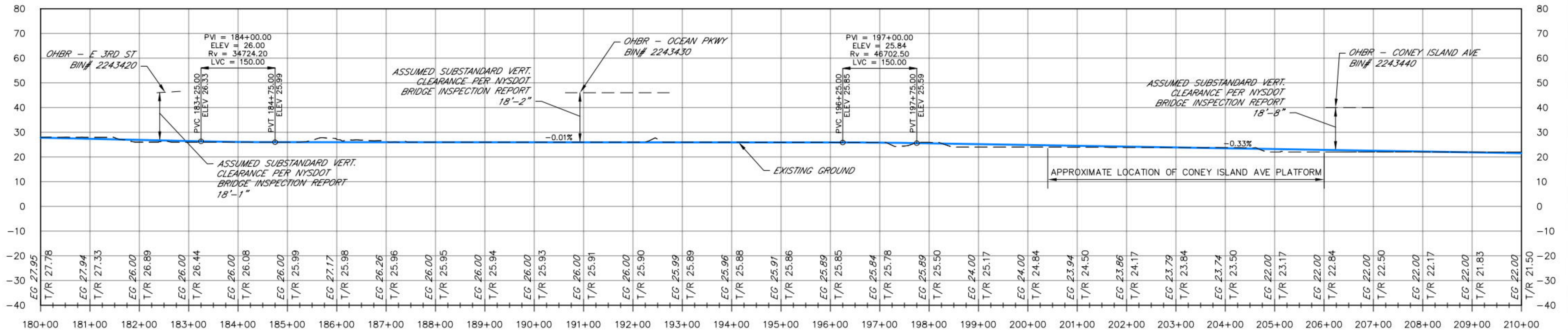
MTA BAY RIDGE CONNECTOR
 CR2 / CR4
 TRACK PLAN AND PROFILE

PROJECT NO:
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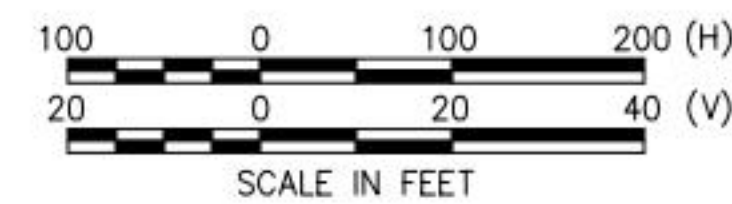


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BQC1-184	0° 18' 30"	45	0	0.00	0.44
BQC2-186	0° 30' 00"	45	0	0	1
BAY-187	0° 30' 00"	45	0	0.00	0.71
BAY-198	0° 29' 00"	45	26	0.50	0.19



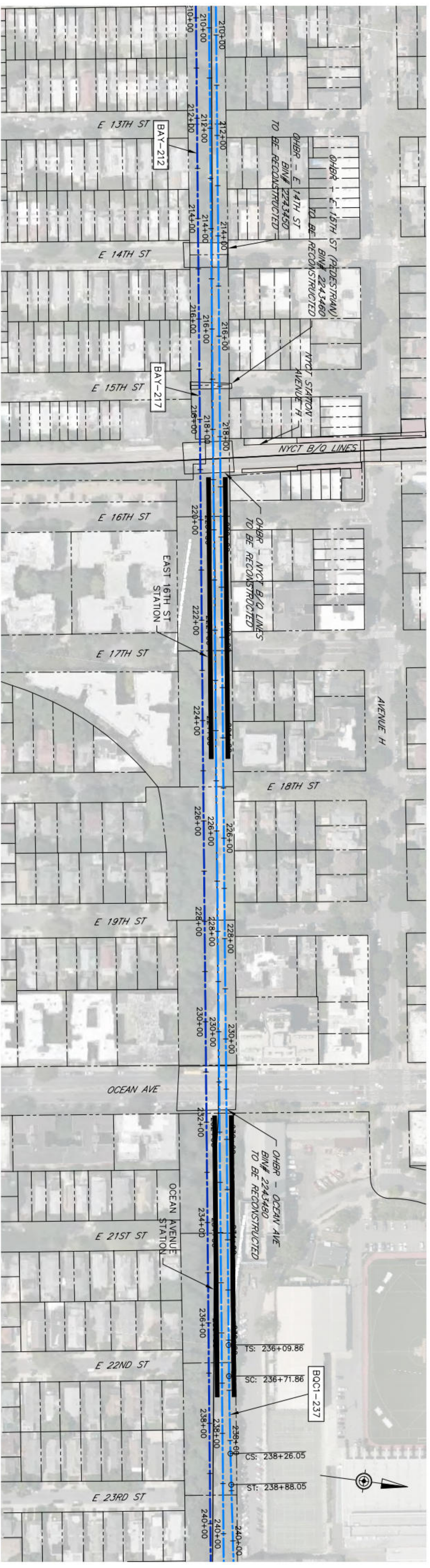
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DESIGNED BY:
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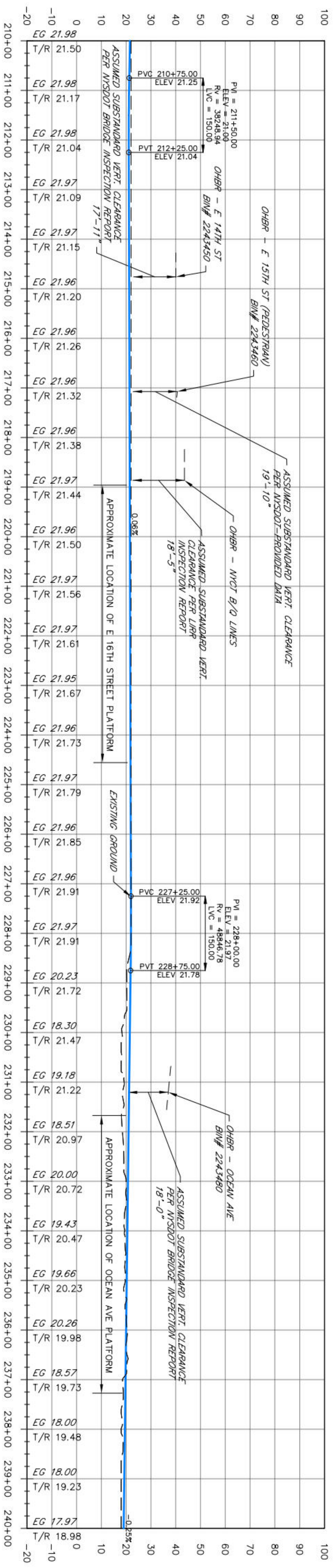


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
07 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1-237	0° 30' 00"	45	62	0.50	0.21



REV. NO.	DATE	BY	APP. BY	DESCRIPTION
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03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS

DESIGNED BY:
JJM

DRAWN BY:
JC

CHECKED BY:
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DATE:
10-23-2020



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MTA BAY RIDGE CONNECTOR
CR2 / CR4

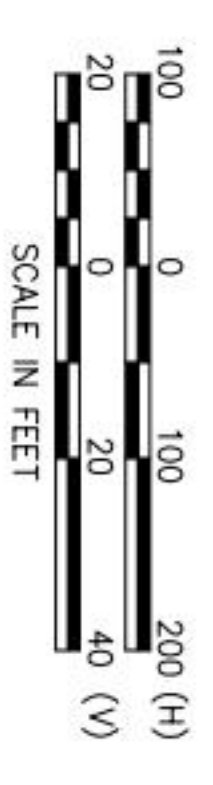
TRACK PLAN AND PROFILE

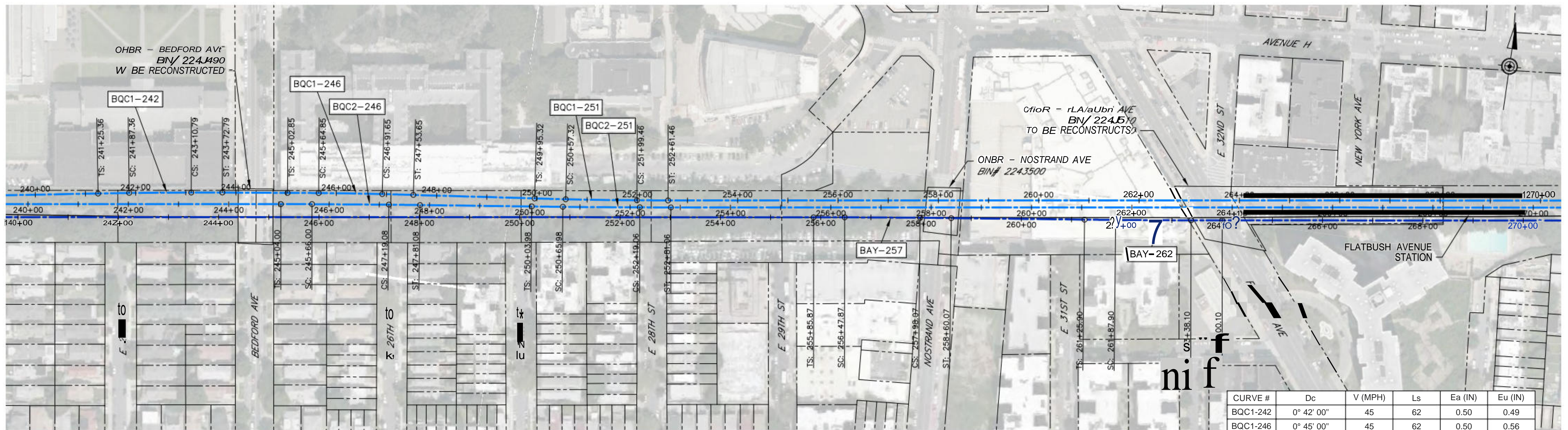
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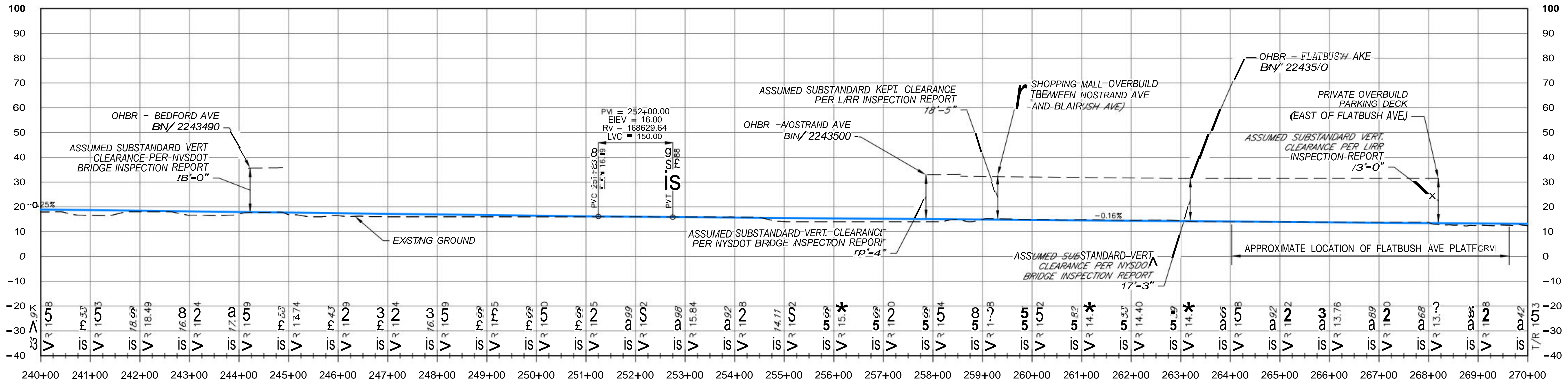
SCALE:
1" = 100' (H) 1" = 20' (V)

SHEET NO.:
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CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-242	0° 42' 00"	45	62	0.50	0.49
BQC1-246	0° 45' 00"	45	62	0.50	0.56
BQC1-251	0° 48' 00"	45	62	0.50	0.63
BQC2-246	0° 20' 00"	45	62	0.00	0.47
BQC2-251	0° 20' 00"	45	62	0.00	0.47
BAY-257	0° 18' 00"	45	62	0.00	0.43
BAY-262	0° 18' 00"	45	62	0.00	0.43



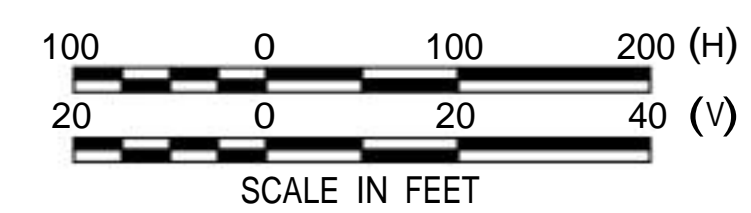
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DRAWN BY:
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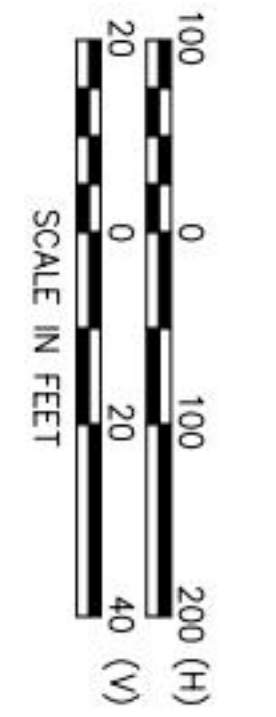
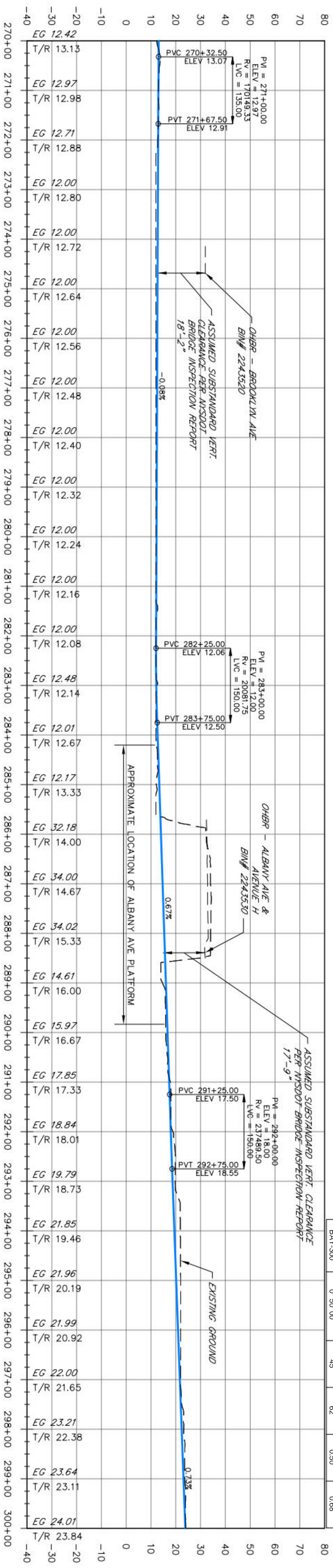
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CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1-278	2° 12' 11"	45	62	1.75	1.37
BOC1-288	1° 00' 27"	45	0	1.25	0.18
BOC1-299	1° 00' 00"	45	0	1.00	0.42
BOC2-279	2° 10' 41"	45	110	1.75	1.34
BOC2-289	1° 00' 08"	45	110	1.25	0.17
BOC2-300	0° 50' 00"	45	62	0.50	0.68
BAV-278	2° 10' 00"	45	110	1.75	1.32
BAV-288	1° 00' 00"	45	110	1.25	0.17
BAV-300	0° 50' 00"	45	62	0.50	0.68



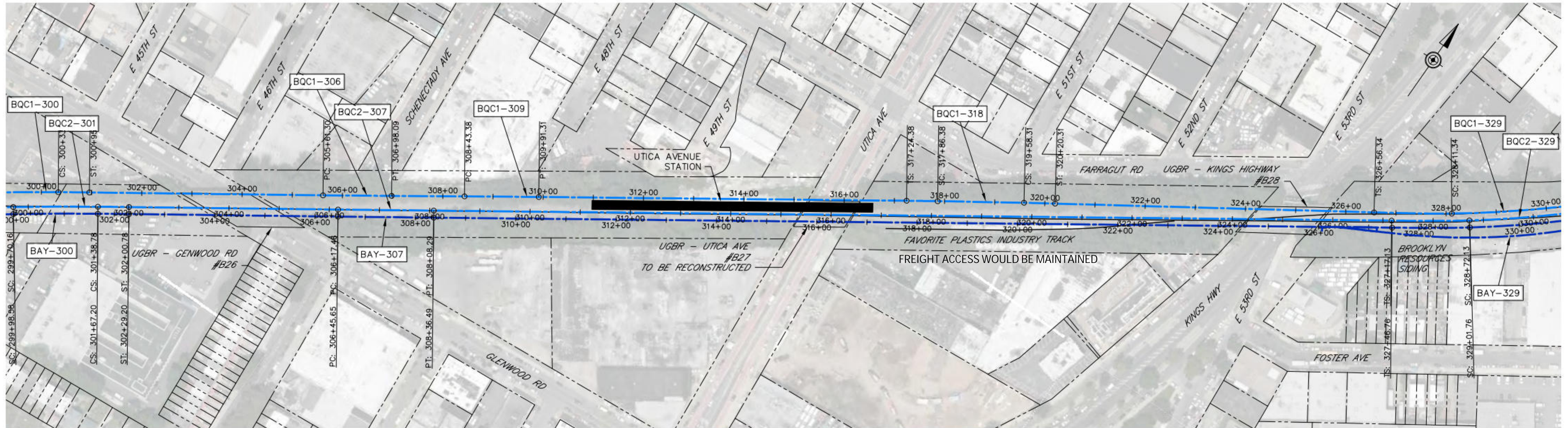
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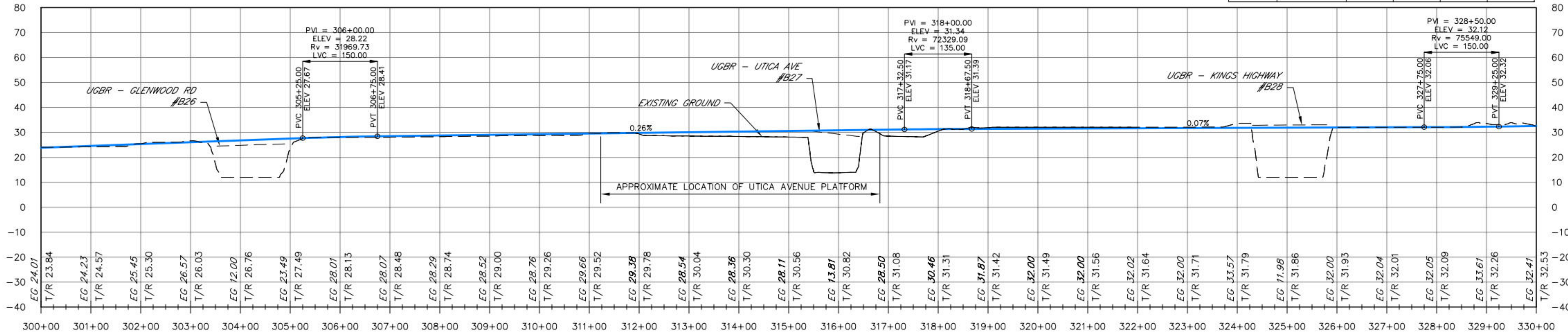
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CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-306	0° 15' 00"	45	0	0.00	0.35
BQC1-309	0° 10' 00"	45	0	0.00	0.24
BQC1-318	0° 25' 00"	45	62	0.50	0.09
BQC1-329	2° 45' 00"	45	155	2.50	1.40
BQC2-307	0° 30' 00"	45	0	0.00	0.71
BQC2-330	2° 45' 00"	45	155	2.50	1.40
BAY-307	0° 03' 00"	45	0	0.00	0.07
BAY-330	2° 45' 00"	45	155	2.50	1.40



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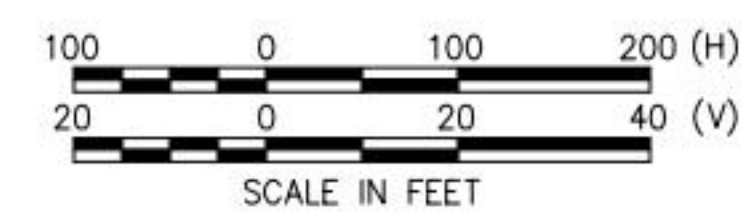
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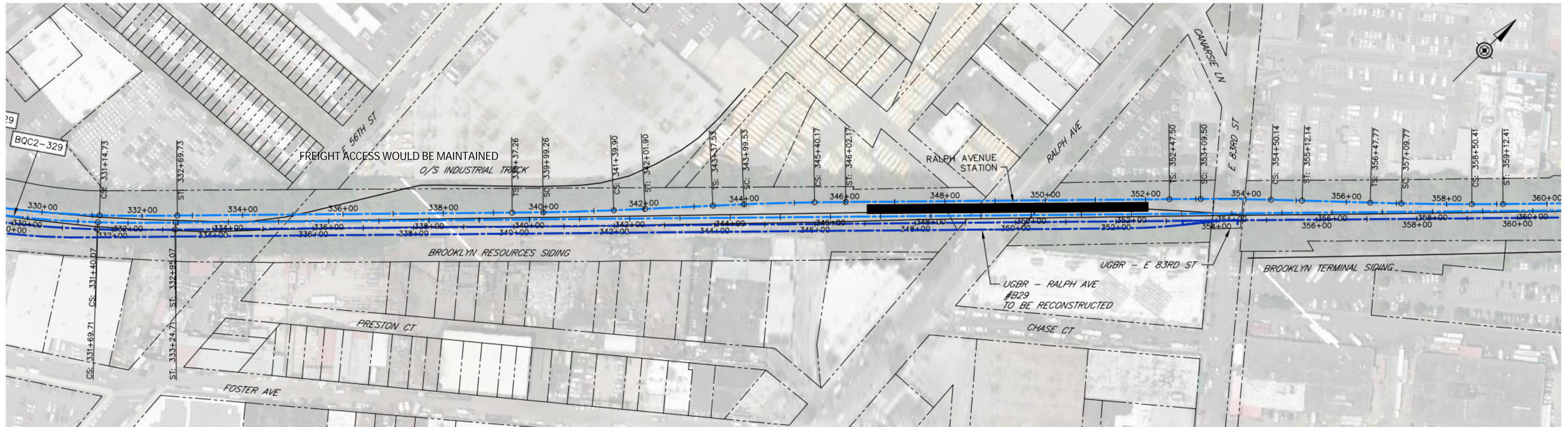


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CR2 / CR4

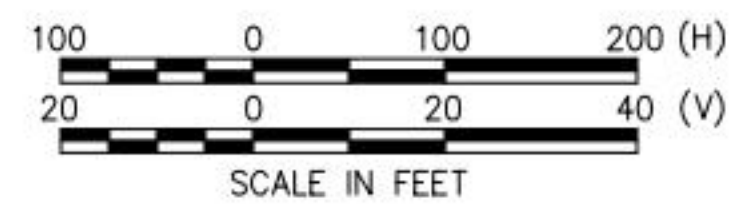
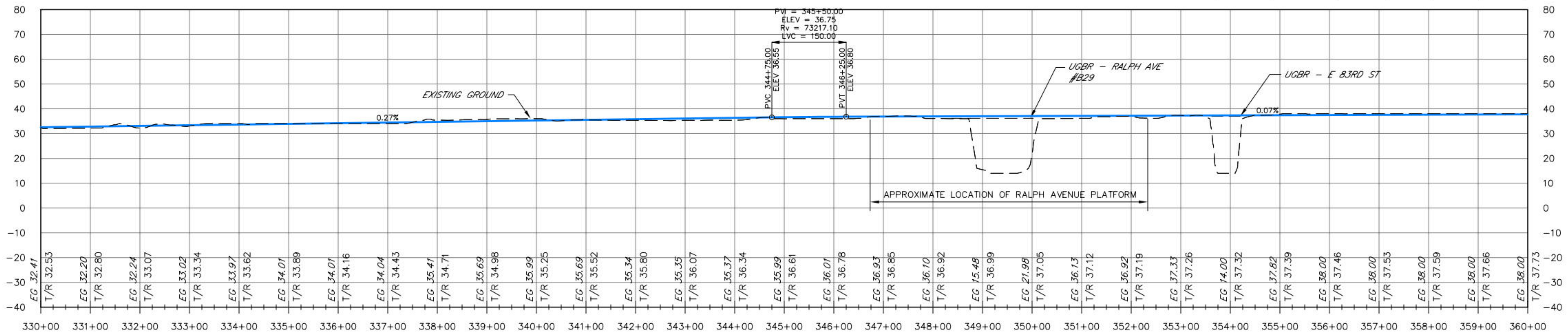
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1" = 20' (V)
SHEET NO:
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CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-340	1° 05' 00"	45	62	1.00	0.54
BQC1-344	1° 05' 00"	45	62	1.00	0.54
BQC1-353	1° 05' 00"	45	62	1.00	0.54
BQC1-357	1° 05' 00"	45	62	1.00	0.54



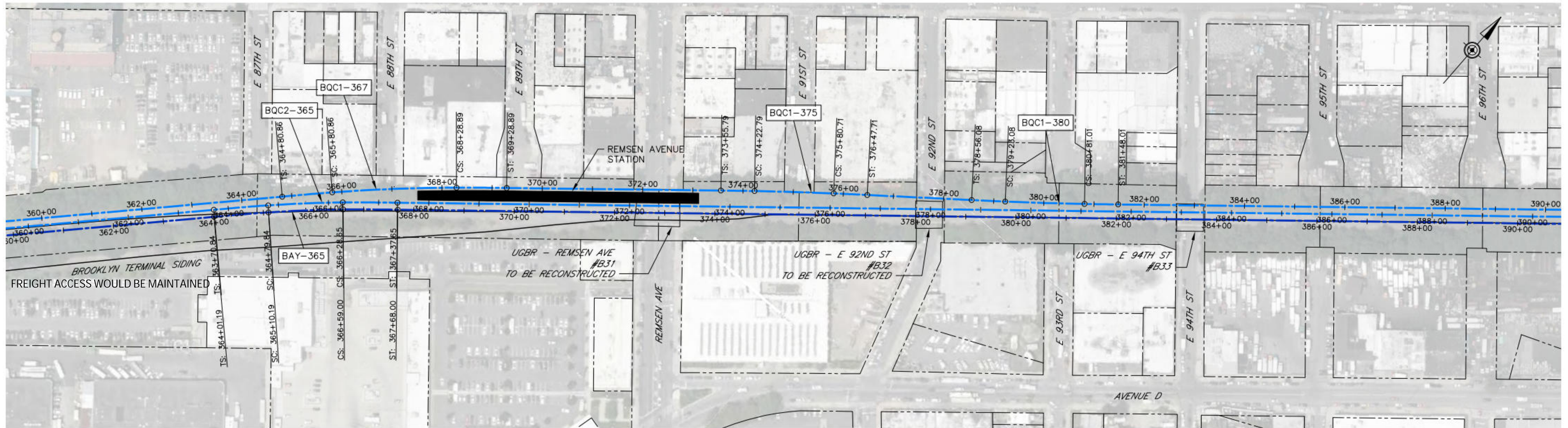
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY: JJM
 DRAWN BY: JC
 CHECKED BY: WVN
 DATE: 10-23-2020

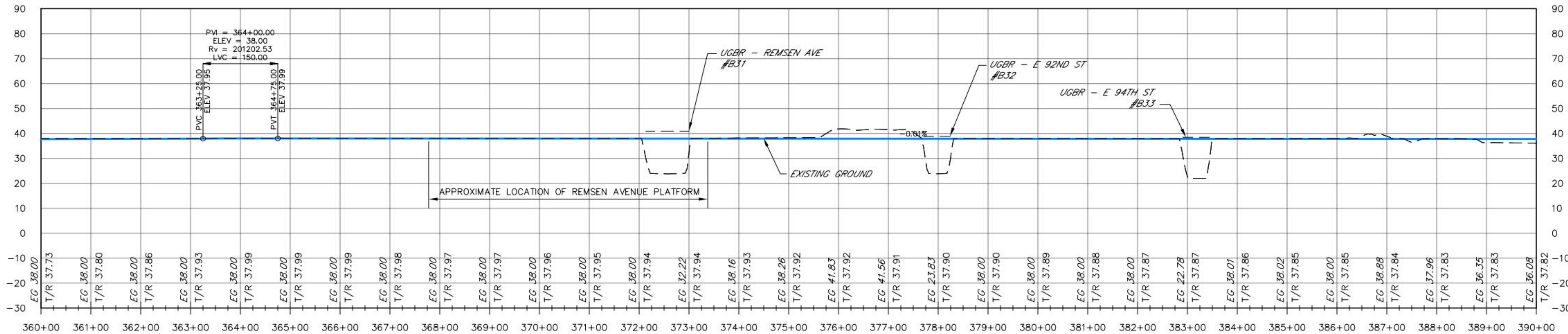


MTA BAY RIDGE CONNECTOR
 CR2 / CR4
 TRACK PLAN AND PROFILE

PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO: 12 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-367	1° 40' 00"	45	100	1.00	1.36
BQC1-375	0° 55' 00"	45	67	0.50	0.80
BQC1-380	0° 55' 00"	45	67	0.50	0.80
BQC2-365	2° 15' 00"	45	109	1.75	1.44
BAY-365	2° 15' 00"	45	109	1.75	1.44



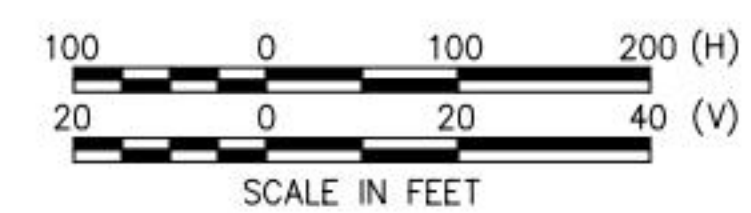
REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

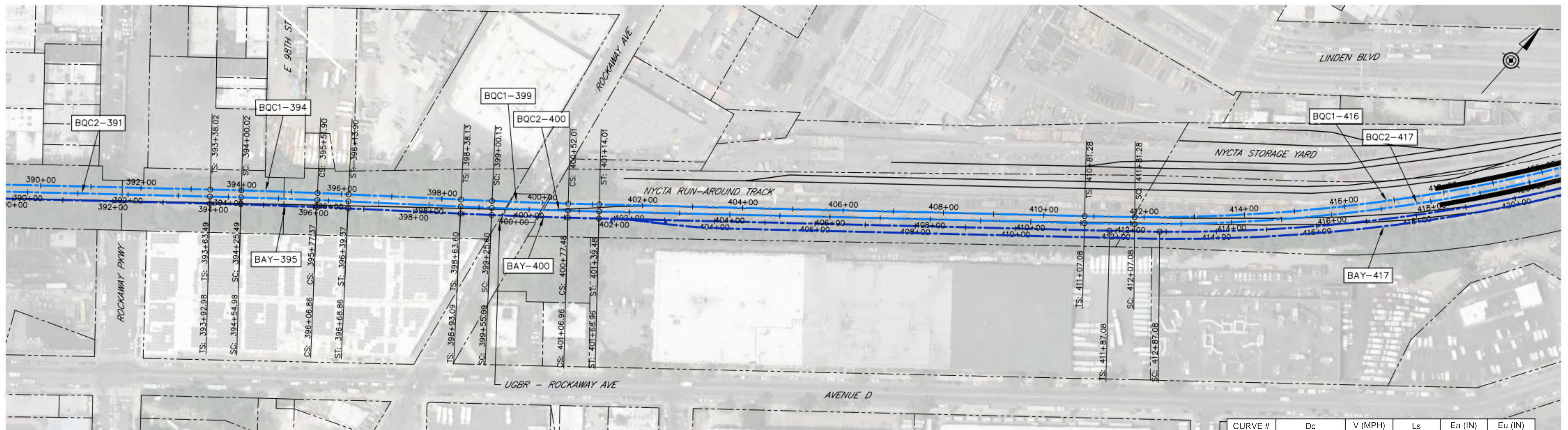
DESIGNED BY:
JJM
DRAWN BY:
JC
CHECKED BY:
WVN
DATE:
10-23-2020



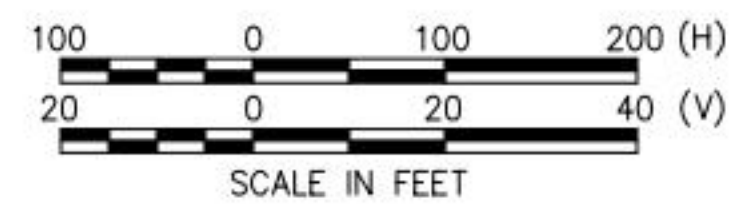
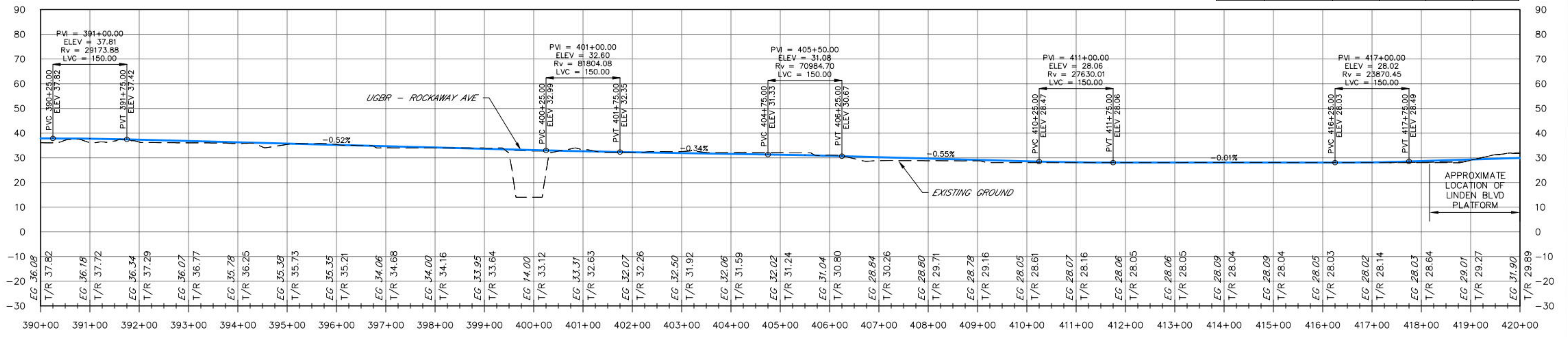
MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
13 OF 28





CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-394	0° 35' 00"	45	62	0.50	0.33
BQC1-399	0° 35' 00"	45	62	0.50	0.33
BQC1-417	1° 40' 00"	35	100	1.00	0.43
BQC2-395	0° 35' 00"	45	62	0.50	0.33
BQC2-400	0° 35' 00"	45	62	0.50	0.33
BQC2-417	1° 39' 35"	35	100	1.00	0.42
BAY-395	0° 35' 00"	45	62	0.50	0.33
BAY-400	0° 35' 00"	45	62	0.50	0.33
BAY-417	1° 40' 00"	35	100	1.00	0.43



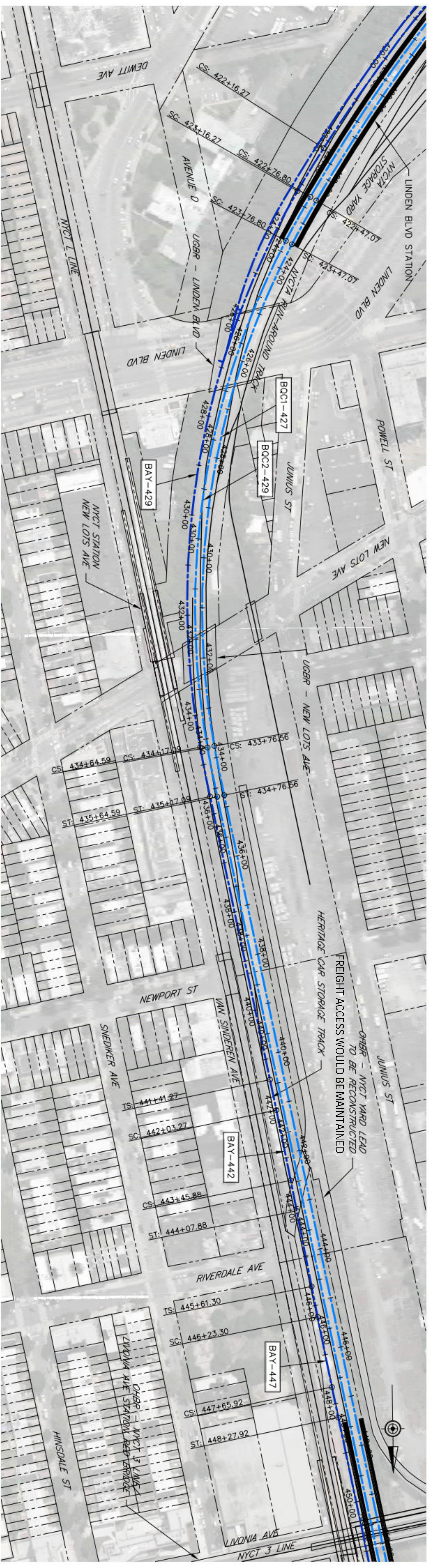
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
JC
CHECKED BY:
WVN
DATE:
10-23-2020

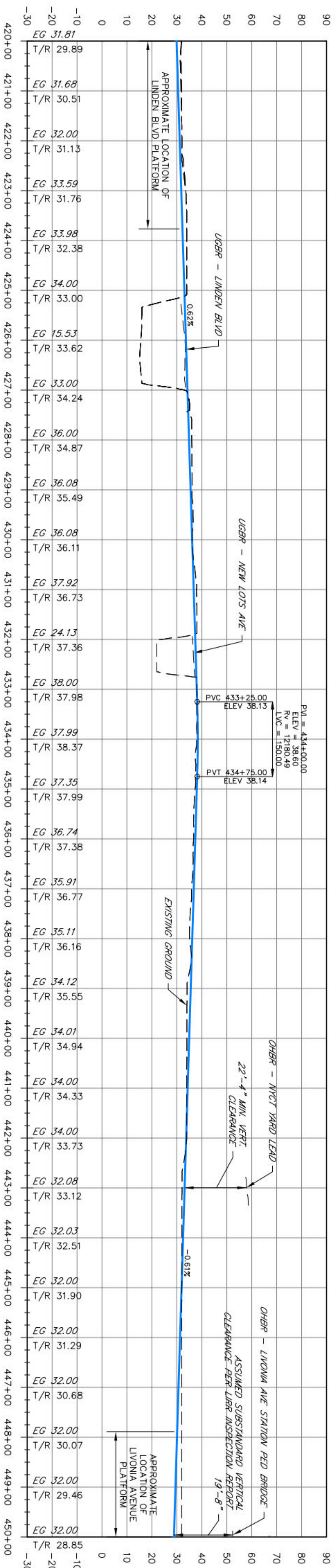


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

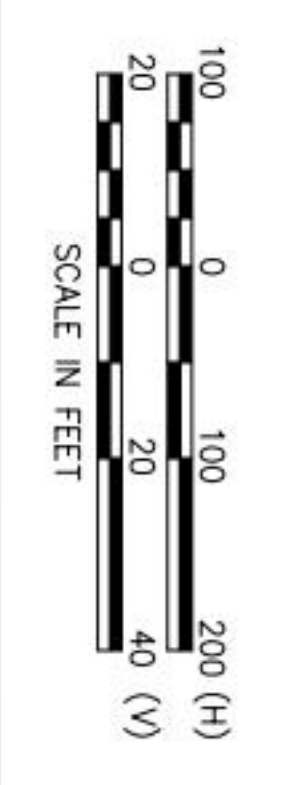
PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
14 OF 28



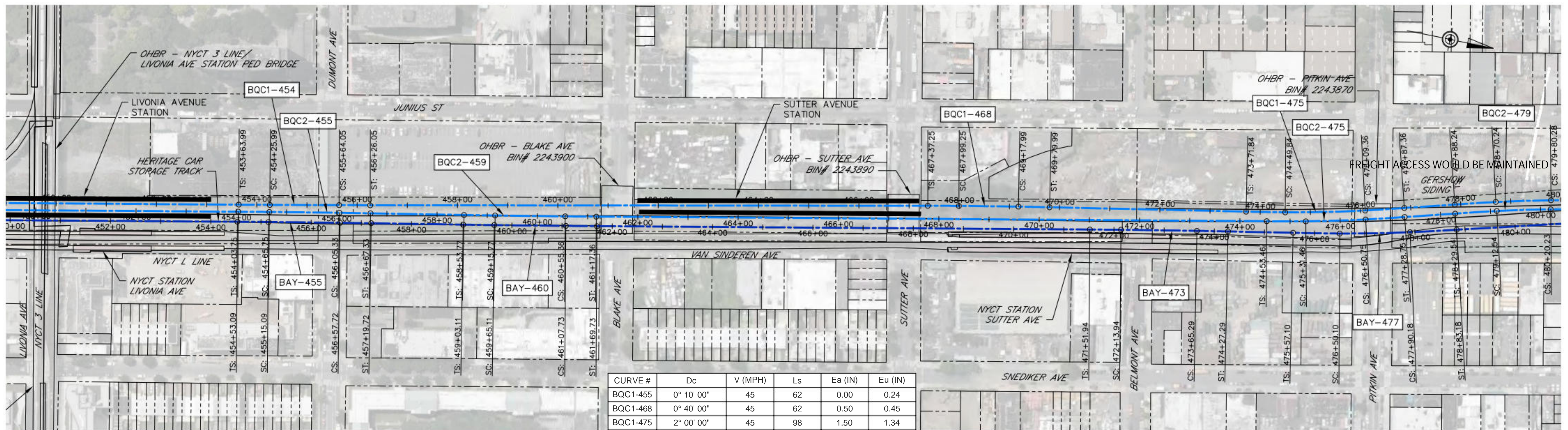
CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1-428	3° 40' 00"	35	100	1.50	1.64
BOC2-429	3° 38' 00"	35	100	1.50	1.62
BAY-429	3° 30' 00"	35	100	1.50	1.50
BAY-442	0° 24' 00"	45	62	0.00	0.57
BAY-446	0° 24' 00"	45	62	0.00	0.57



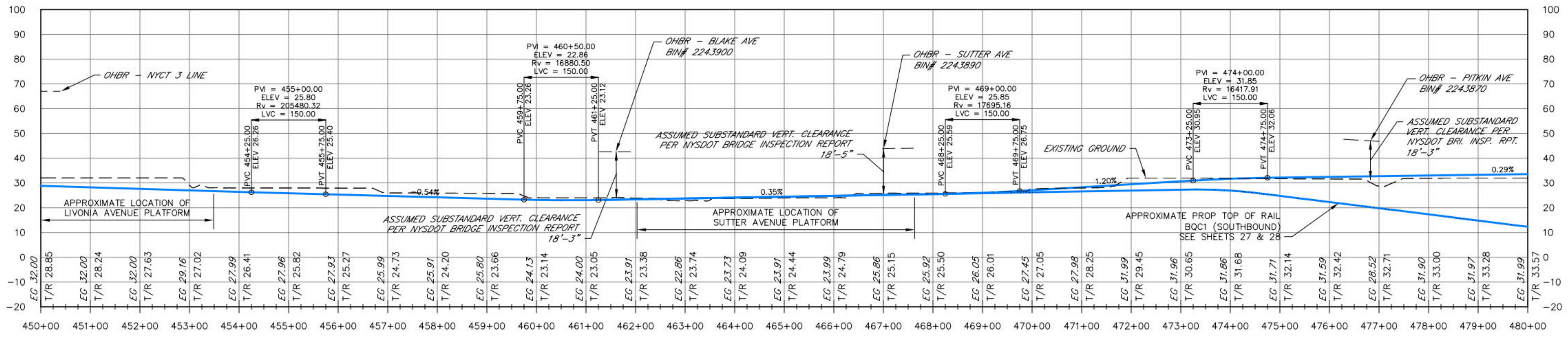
REV. NO.	DATE	BY	APP. BY	DESCRIPTION	DESIGNED BY:	PROJECT NO.:	
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JJM	MTA BAY RIDGE CONNECTOR	
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JJM	CR2 / CR4	
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JC	DRAWING NO.:	
					WVN	SCALE: 1" = 100' (H)	
					WVN	1" = 20' (V)	
					DATE: 10-23-2020	SHEET NO. 15 OF 28	



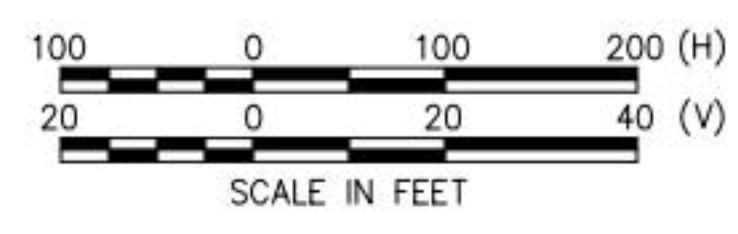
AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-455	0° 10' 00"	45	62	0.00	0.24
BQC1-468	0° 40' 00"	45	62	0.50	0.45
BQC1-475	2° 00' 00"	45	98	1.50	1.34
BQC2-455	0° 18' 00"	45	62	0.00	0.43
BQC2-459	0° 18' 00"	45	62	0.00	0.43
BQC2-475	1° 40' 00"	45	82	1.25	1.11
BQC2-479	1° 55' 00"	45	93	1.50	1.22
BAY-455	0° 14' 00"	45	62	0.00	0.33
BAY-460	0° 14' 00"	45	62	0.00	0.33
BAY-472	0° 22' 00"	45	62	0.00	0.52
BAY-477	1° 55' 00"	45	93	1.50	1.22

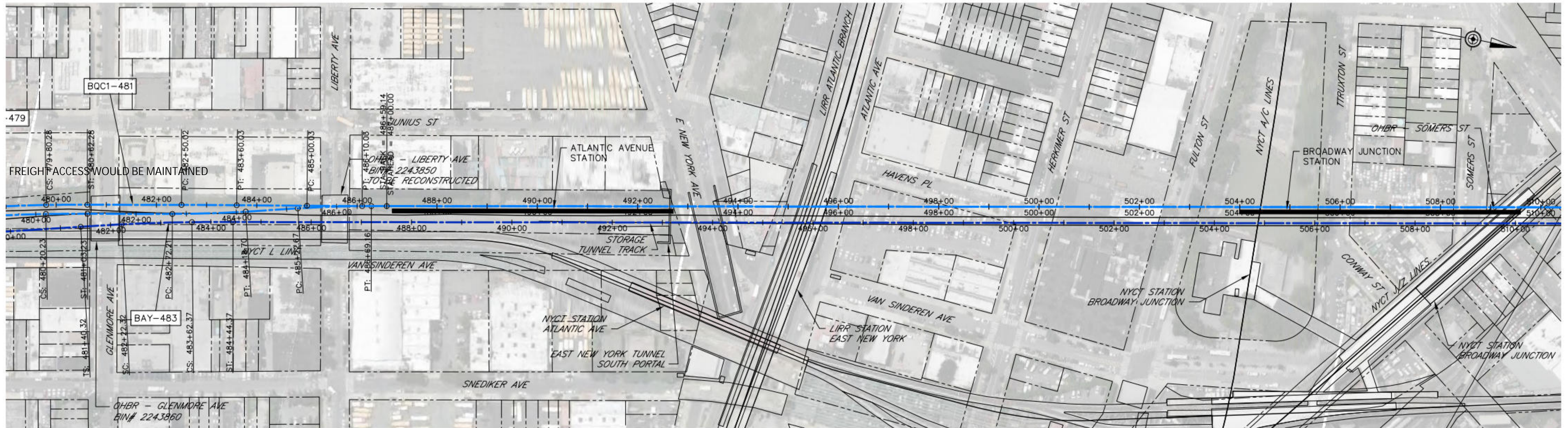


REV. NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY:
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JC
					CHECKED BY:
					WVN
					DATE:
					10-23-2020

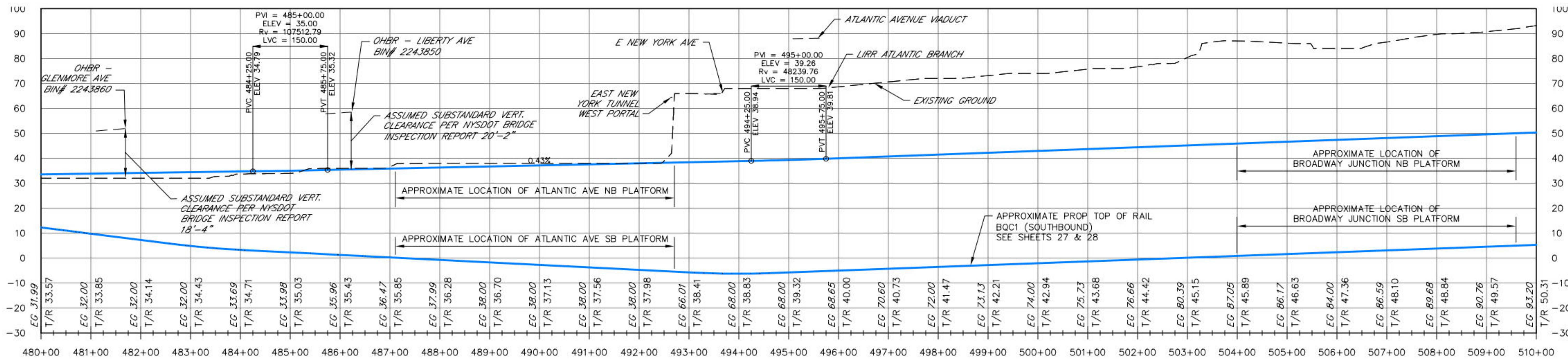


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H) 1" = 20' (V)
SHEET NO: 16 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-483	0° 25' 00"	45	0	0.00	0.59
BQC1-485	0° 25' 00"	45	0	0.00	0.59
BQC2-483	2° 30' 00"	20	0	0.00	0.70
BQC2-485	2° 30' 00"	20	0	0.00	0.70
BAY-482	1° 40' 00"	45	82	1.25	1.11



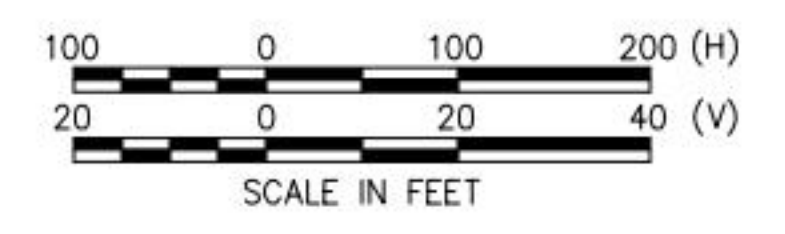
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

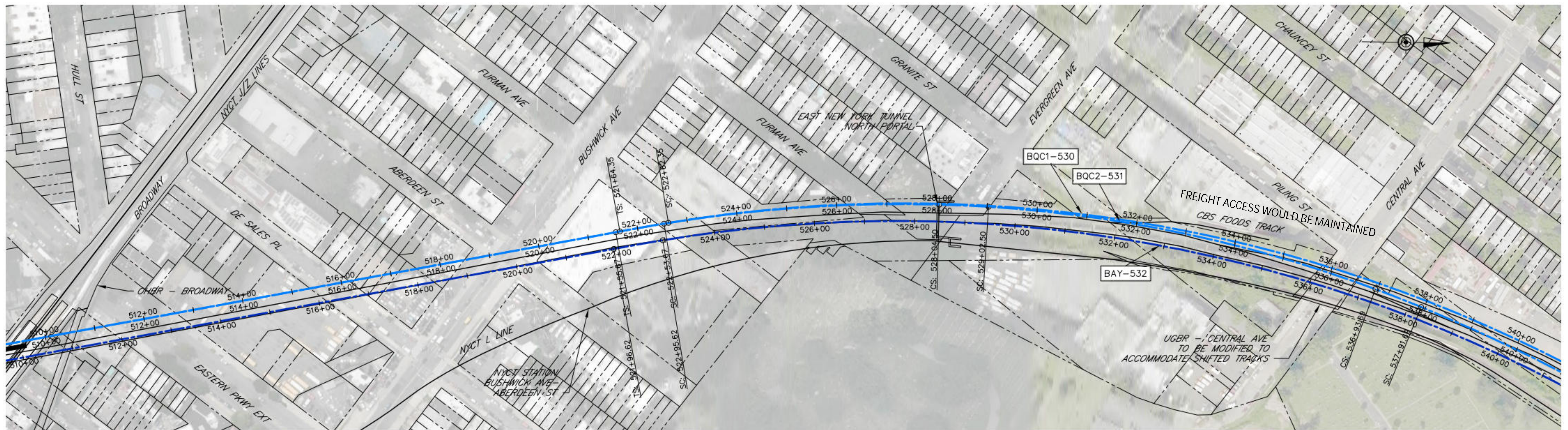
DESIGNED BY:
JJM
DRAWN BY:
JC
CHECKED BY:
WVN
DATE:
10-23-2020



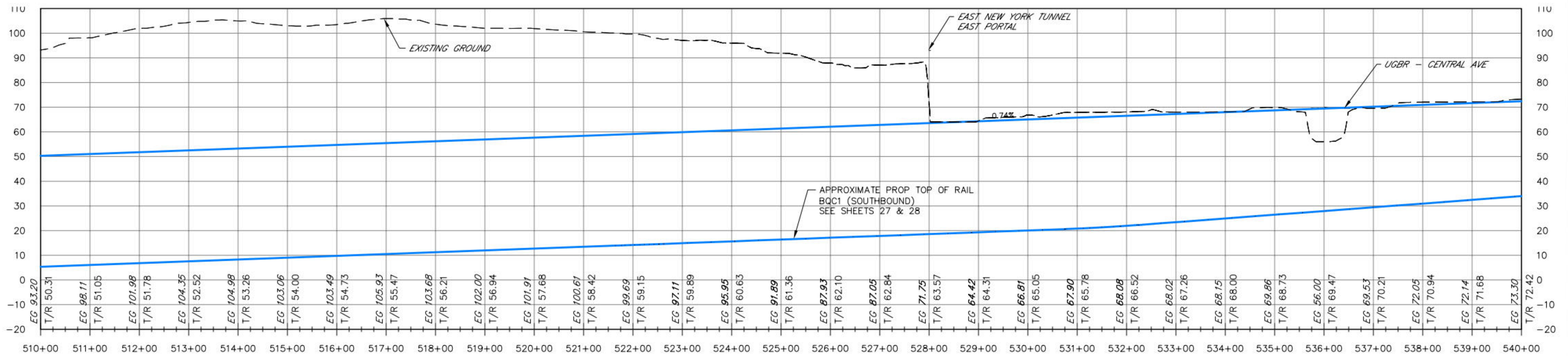
MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
17 OF 28



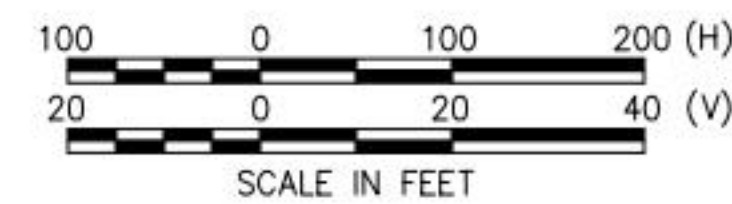


CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-532	1° 59' 25"	45	98	1.50	1.32
BQC2-525	1° 59' 25"	40	98	1.50	0.73
BQC2-533	2° 08' 00"	40	98	1.50	0.89
BAY-533	2° 00' 36"	45	99	1.50	1.35



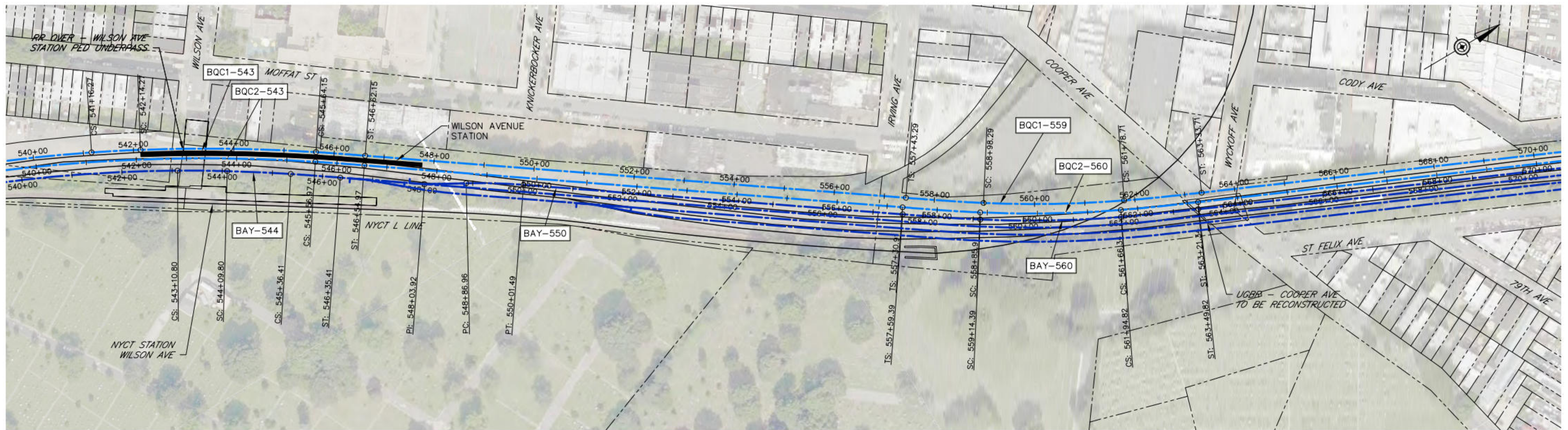
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
JC
CHECKED BY:
WVN
DATE:
10-23-2020

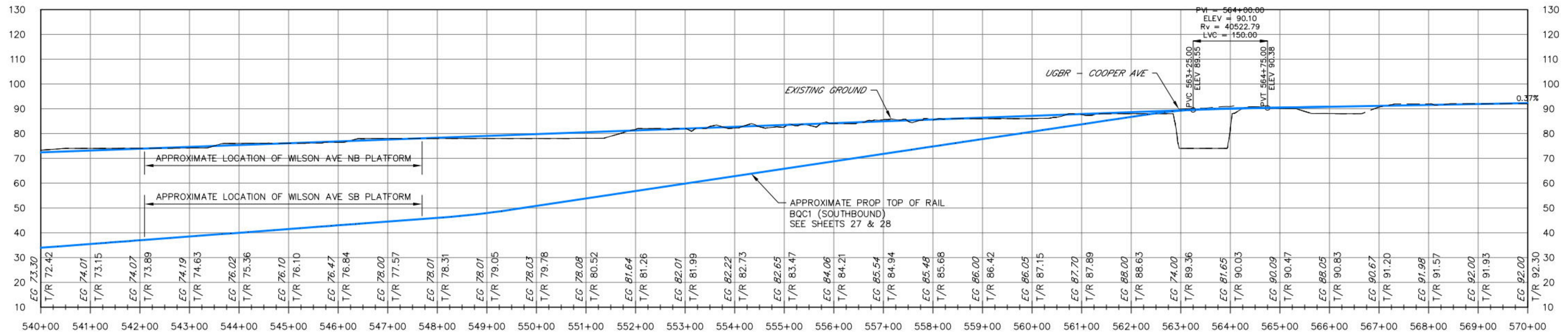


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

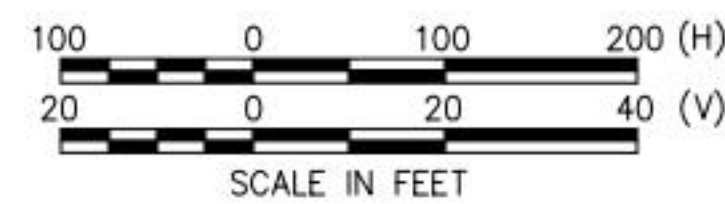
PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
18 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-543	1° 39' 26"	45	98	1.50	0.85
BQC1-560	2° 30' 00"	45	155	2.50	1.04
BQC2-541	1° 40' 00"	40	98	1.50	0.37
BQC2-560	2° 30' 00"	45	155	2.50	1.04
BAY-544	1° 40' 25"	45	99	1.50	0.87
BAY-549	5° 00' 00"	10	0	0.00	0.35
BAY-560	2° 30' 00"	45	155	2.50	1.04

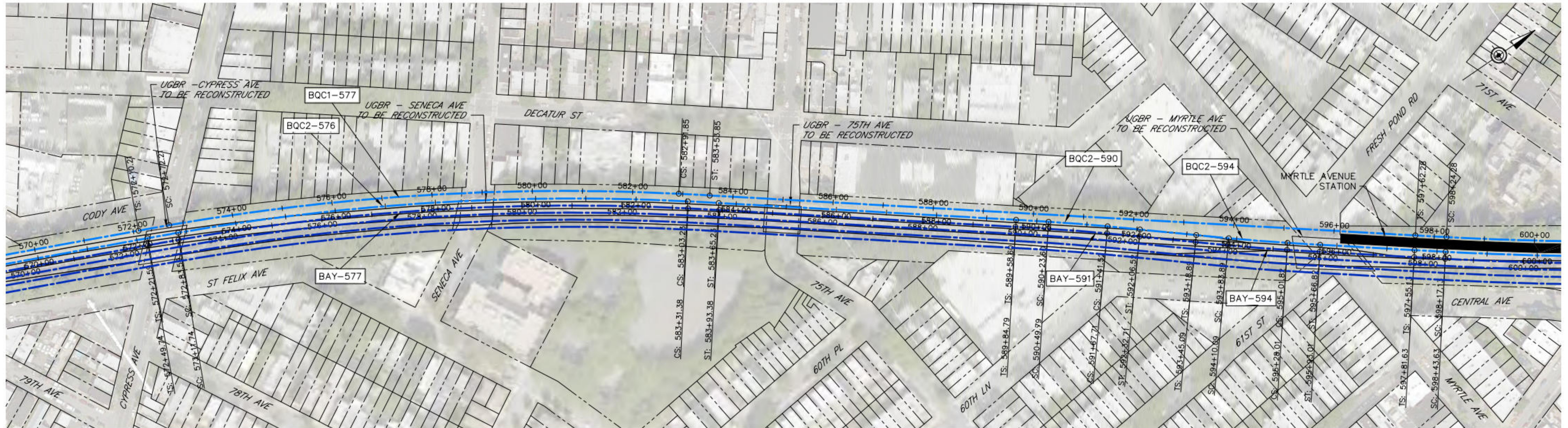


REV. NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY: JC
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	CHECKED BY: WVN
					DATE: 10-23-2020

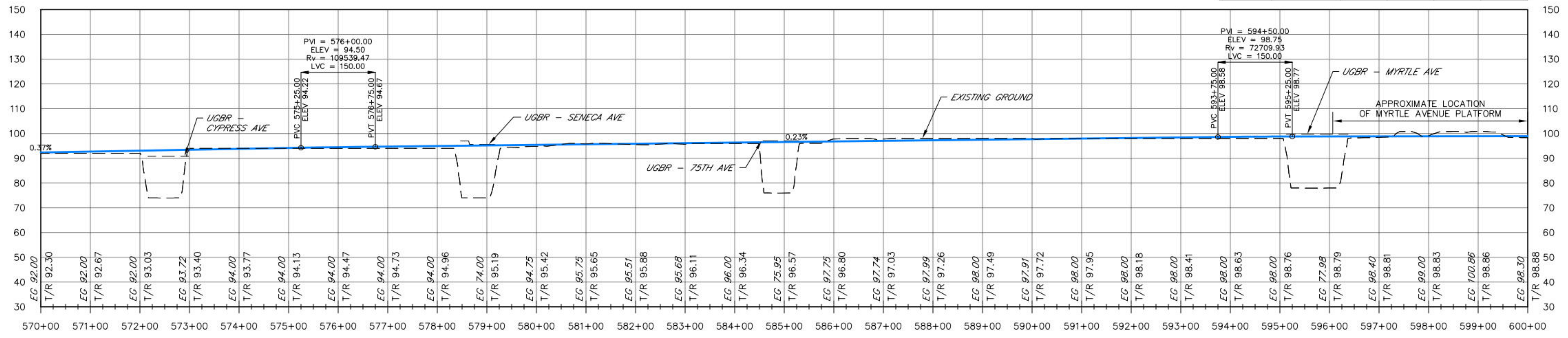


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
19 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-577	1° 15' 00"	45	62	1.00	0.77
BQC2-577	1° 15' 00"	45	62	1.00	0.77
BQC2-590	1° 20' 00"	45	65	1.00	0.89
BQC2-594	1° 20' 00"	45	65	1.00	0.89
BAY-577	1° 15' 00"	45	62	1.00	0.77
BAY-591	1° 20' 00"	45	65	1.00	0.89
BAY-594	1° 20' 00"	45	65	1.00	0.89



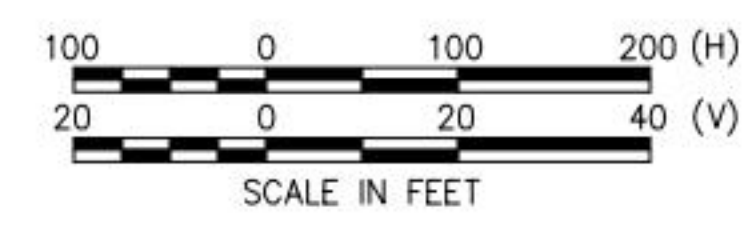
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

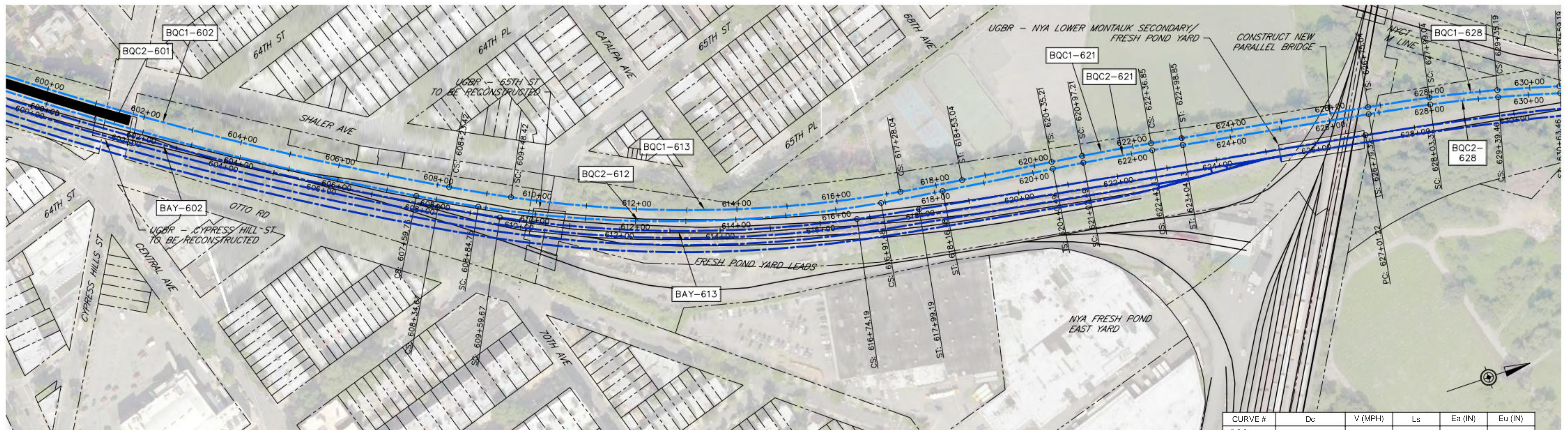
DESIGNED BY:
JJM
DRAWN BY:
JC
CHECKED BY:
WVN
DATE:
10-23-2020



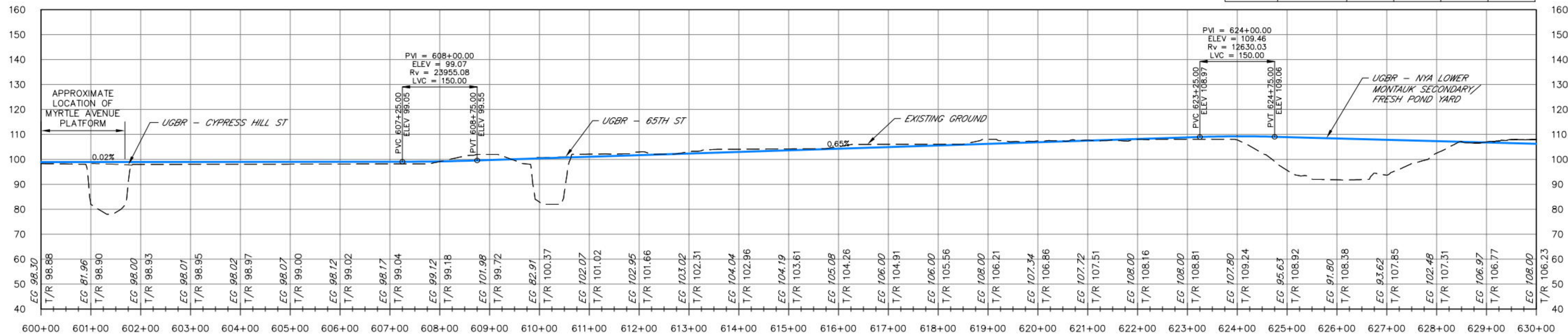
MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
20 OF 28

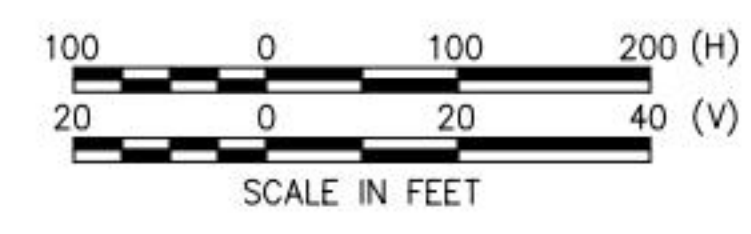




CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-603	0° 50' 00"	45	62	1.00	0.18
BQC1-613	2° 20' 00"	45	125	2.00	1.31
BQC1-621	0° 58' 00"	45	62	0.75	0.62
BQC1-628	2° 25' 00"	45	124	2.00	1.43
BQC2-602	0° 49' 47"	45	62	1.00	0.18
BQC2-612	2° 19' 12"	45	125	2.00	1.29
BQC2-621	0° 58' 00"	45	62	0.75	0.62
BQC2-628	2° 25' 00"	45	124	2.00	1.43
BAY-603	0° 49' 41"	45	62	1.00	0.17
BAY-613	2° 17' 49"	45	125	2.00	1.26

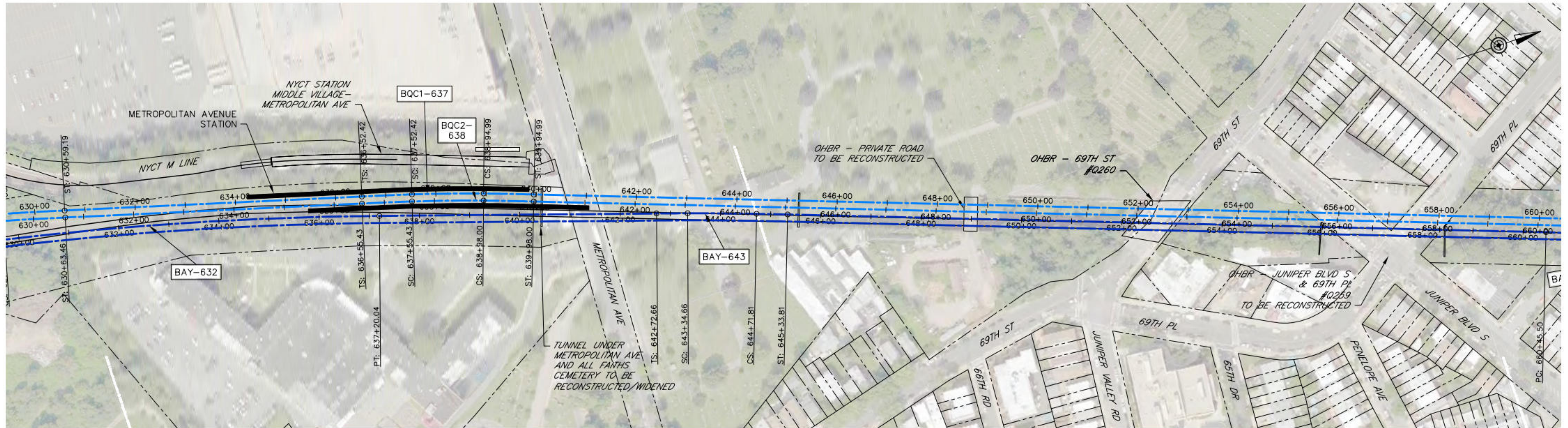


REV.NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY: JC
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	CHECKED BY: WVN
					DATE: 10-23-2020

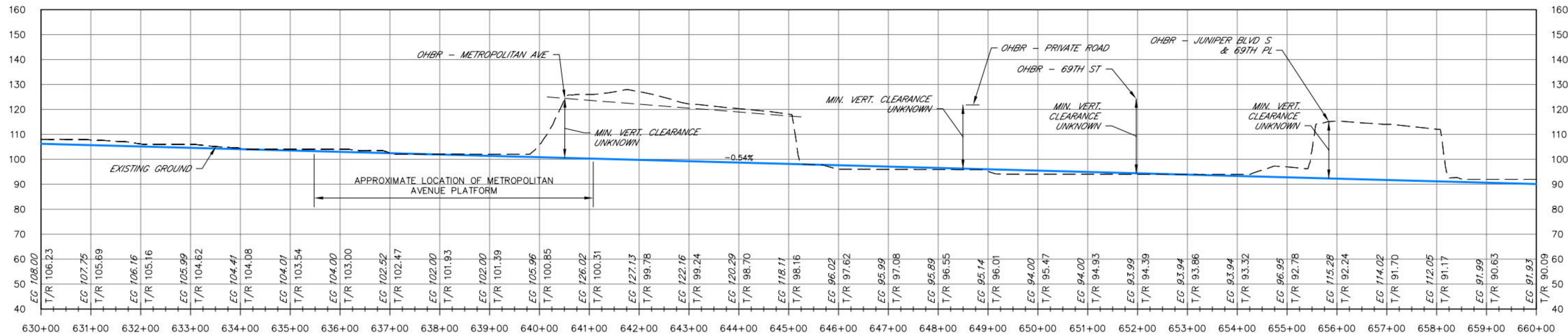


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
21 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-638	1° 39' 36"	45	100	1.00	1.35
BQC2-638	1° 39' 36"	45	100	1.25	1.10
BAY-632	0° 50' 00"	40	0	0.00	0.93
BAY-644	0° 55' 00"	45	62	0.50	0.80



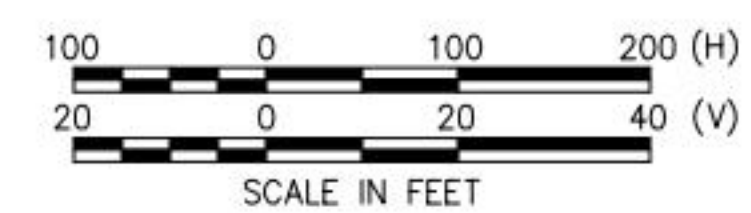
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

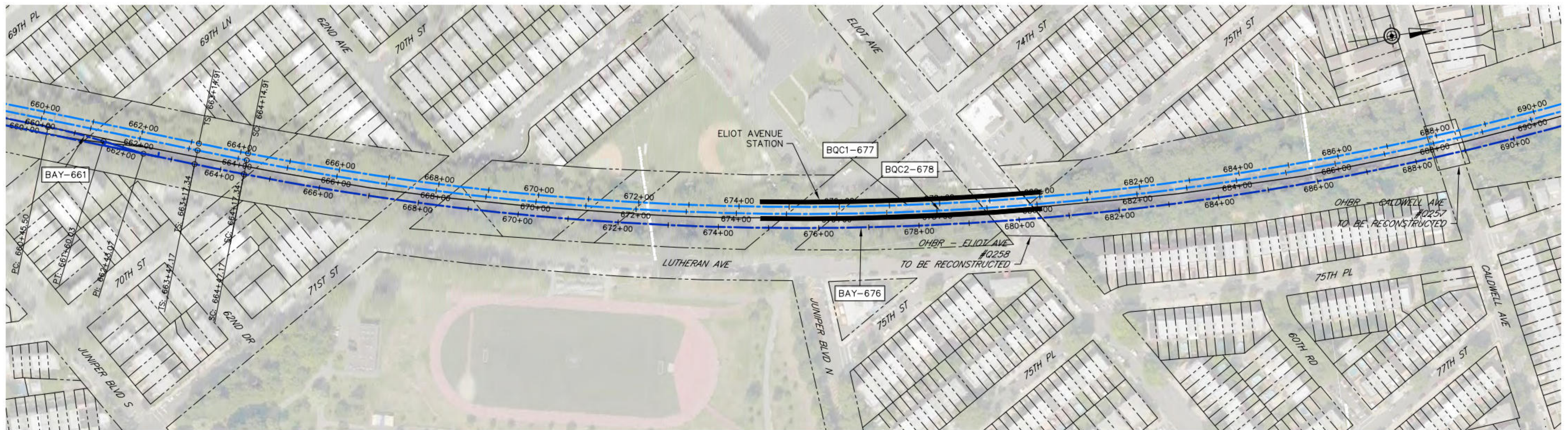
DESIGNED BY:
JJM
DRAWN BY:
JC
CHECKED BY:
WVN
DATE:
10-23-2020



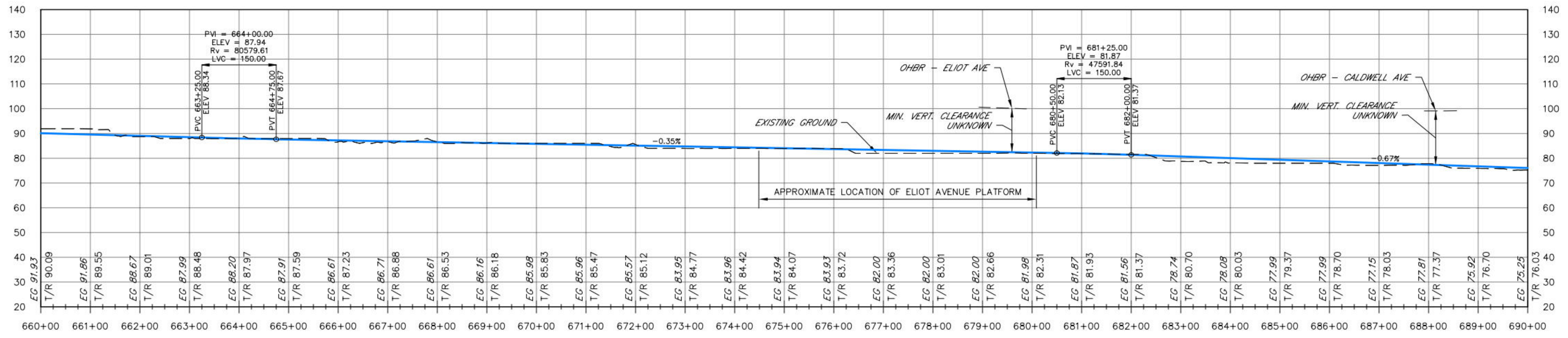
MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
22 OF 28

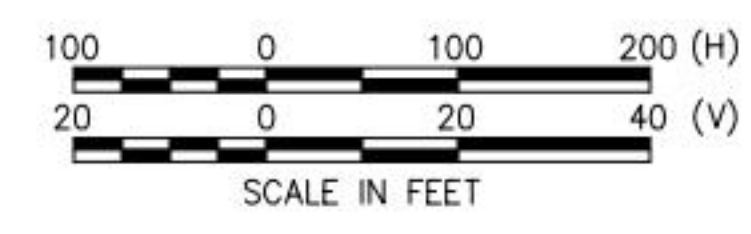




CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-678	1° 00' 00"	45	100	0.50	0.92
BQC2-678	0° 59' 51"	45	100	0.50	0.91
BAY-661	5° 00' 00"	10	0	0.00	0.35
BAY-678	0° 59' 33"	45	100	0.50	0.91

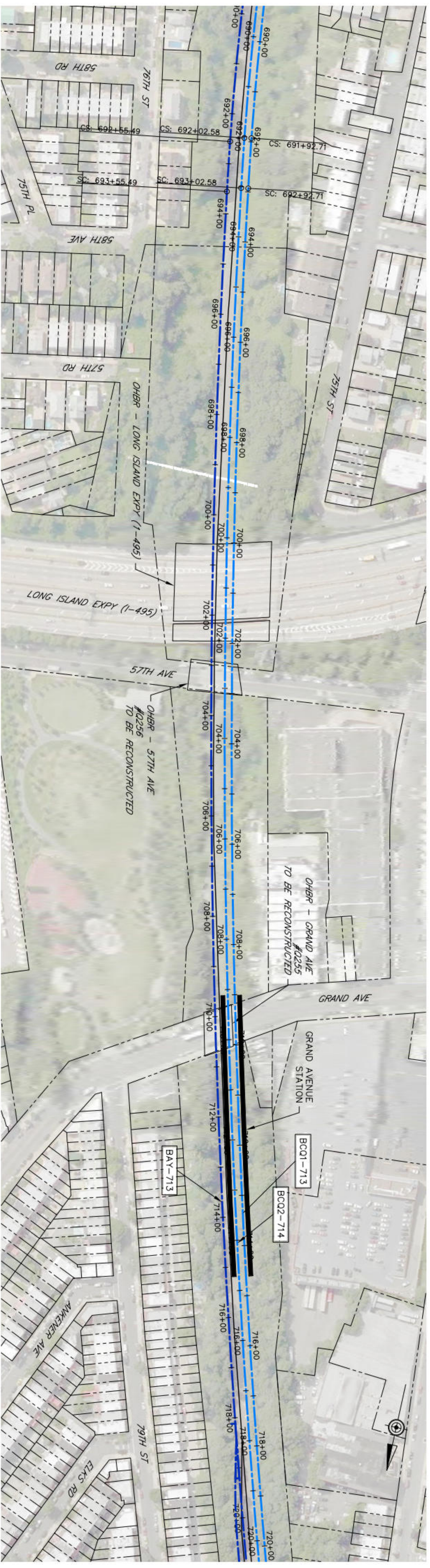


REV.NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY: JJM
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JC
					CHECKED BY: WVN
					DATE: 10-23-2020

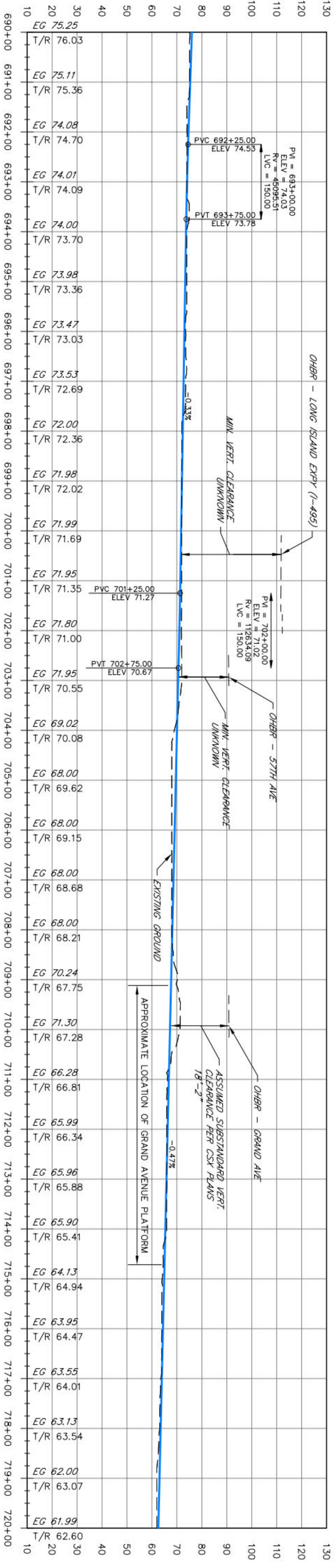


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H) 1" = 20' (V)
SHEET NO: 23 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1-713	0° 18' 00"	45	100	0.00	0.43
BOC2-714	0° 17' 59"	45	100	0.00	0.42
BAY-714	0° 17' 57"	40	100	0.00	0.00



REV. NO.	DATE	BY	APP. BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS

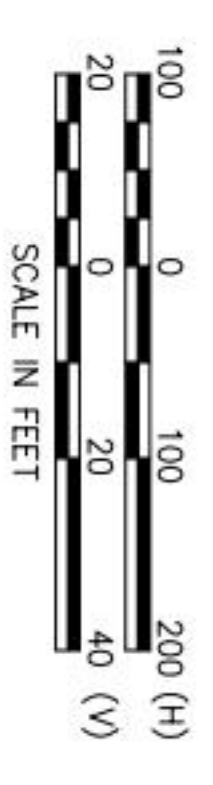
DESIGNED BY:	JJM
DRAWN BY:	JC
CHECKED BY:	WVN
DATE:	10-23-2020

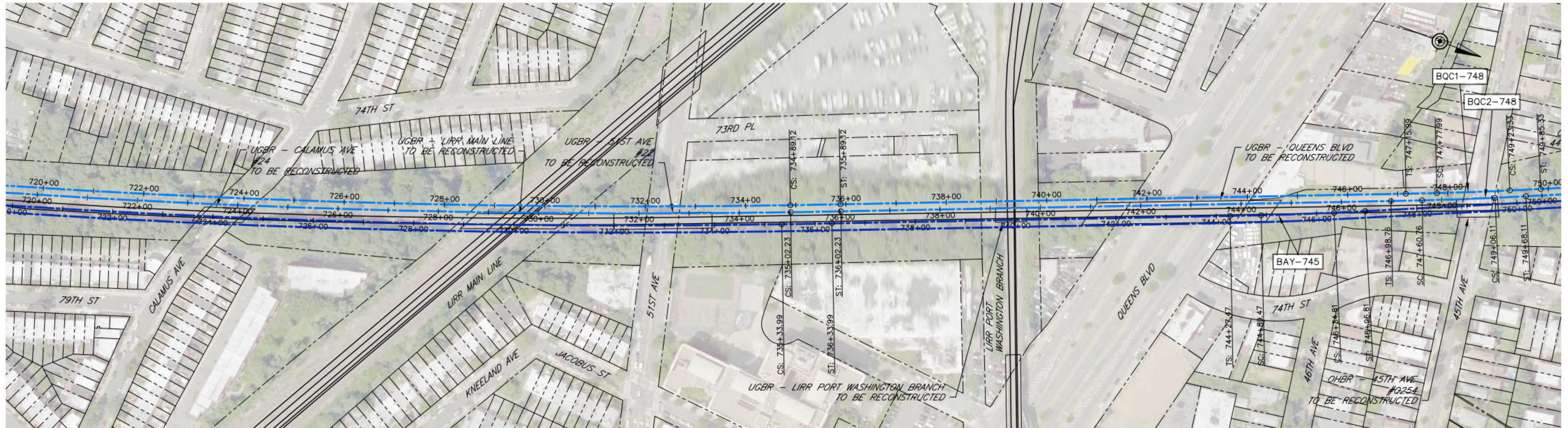
AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
CR2 / CR4

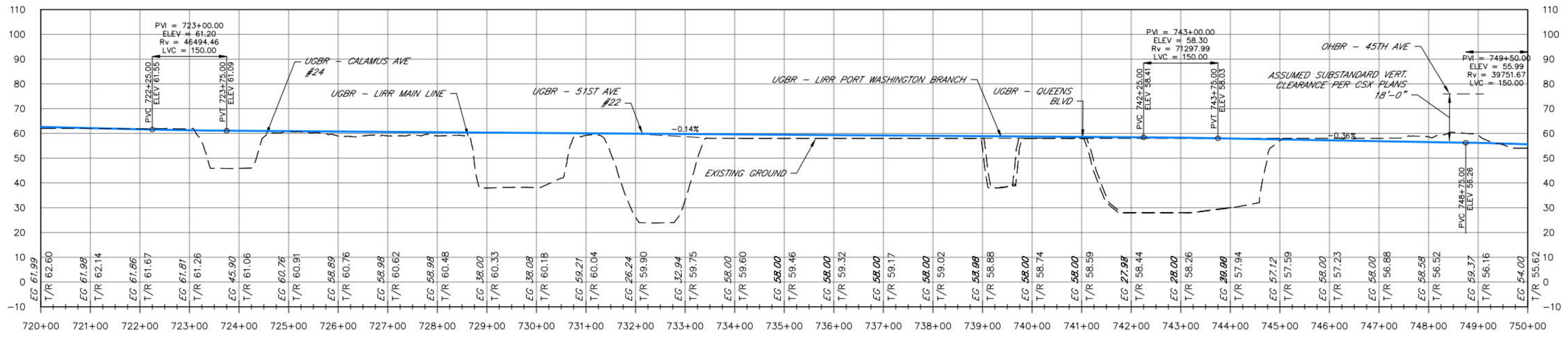
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO: 24 OF 28



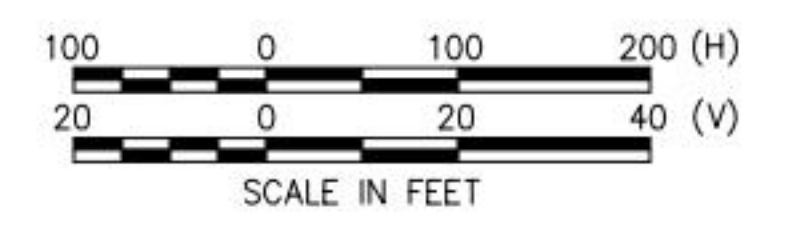


CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-748	0° 55' 00"	45	62	0.50	0.80
BQC2-748	0° 55' 00"	45	62	0.50	0.80
BAY-745	0° 55' 00"	45	62	0.50	0.80



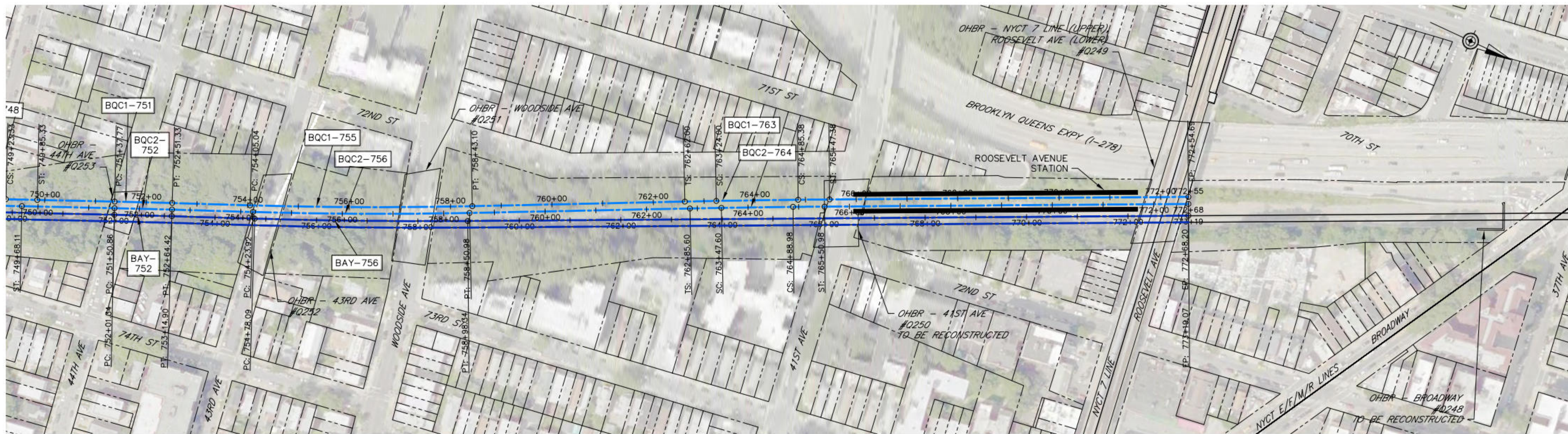
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:	JJM
DRAWN BY:	JC
CHECKED BY:	WVN
DATE:	10-23-2020

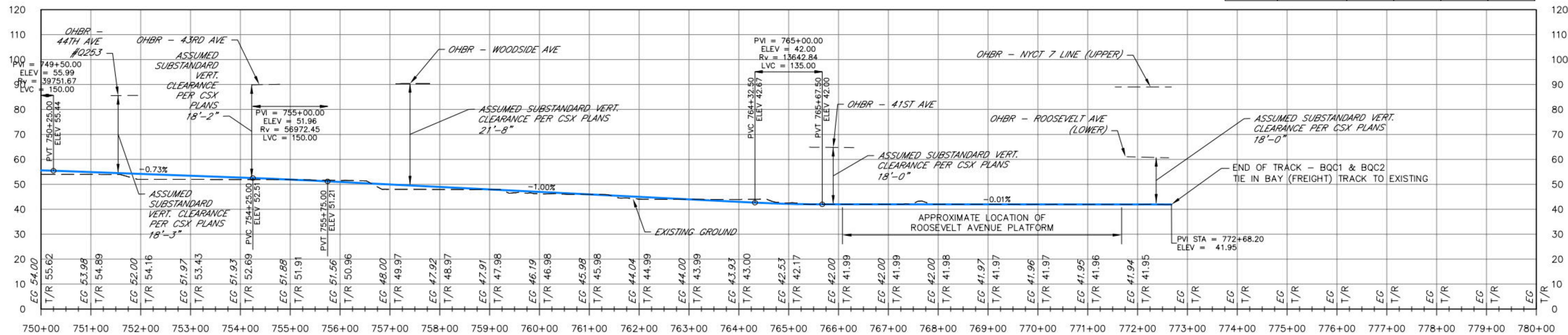


MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

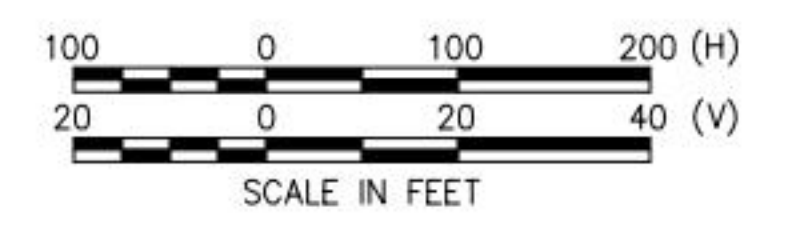
PROJECT NO:	
DRAWING NO:	
SCALE:	1" = 100' (H) 1" = 20' (V)
SHEET NO:	25 OF 28



CURVE #	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1-751	0° 25' 00"	45	0	0.00	0.59
BQC1-756	0° 40' 00"	45	0	0.00	0.95
BQC1-764	0° 22' 00"	45	62	0.00	0.52
BQC2-752	0° 25' 00"	45	0	0.00	0.59
BQC2-756	0° 40' 00"	45	0	0.00	0.95
BQC2-764	0° 22' 00"	45	62	0.00	0.52
BAY-752	0° 25' 00"	45	0	0.00	0.59
BAY-756	0° 30' 00"	45	0	0.00	0.71

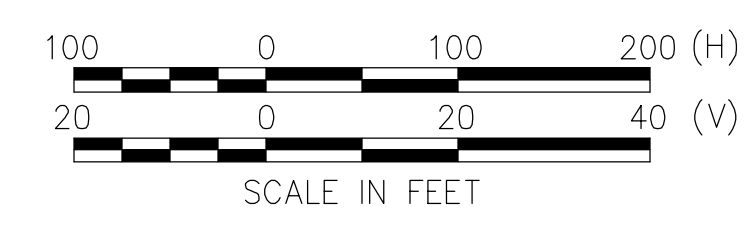
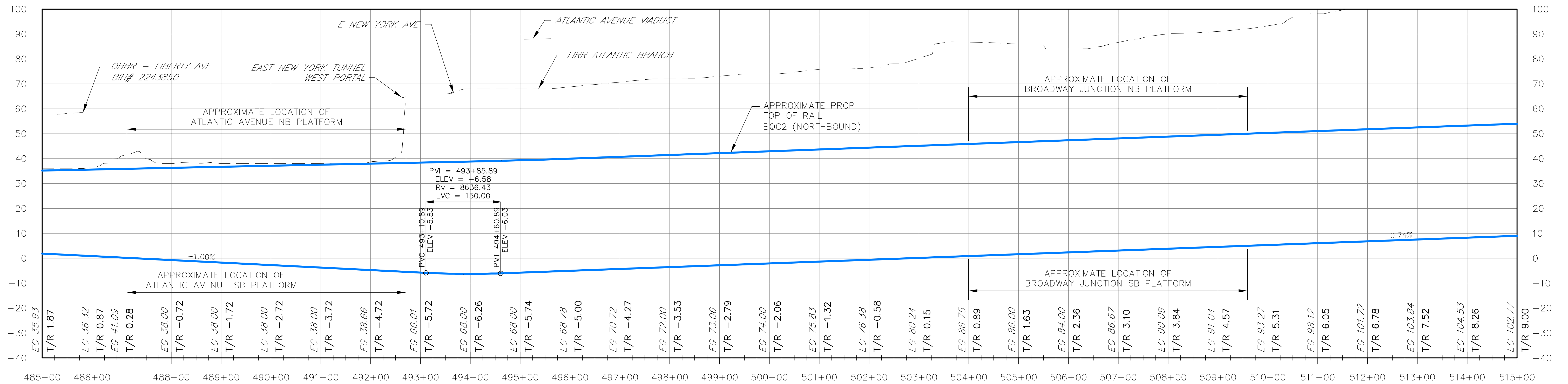
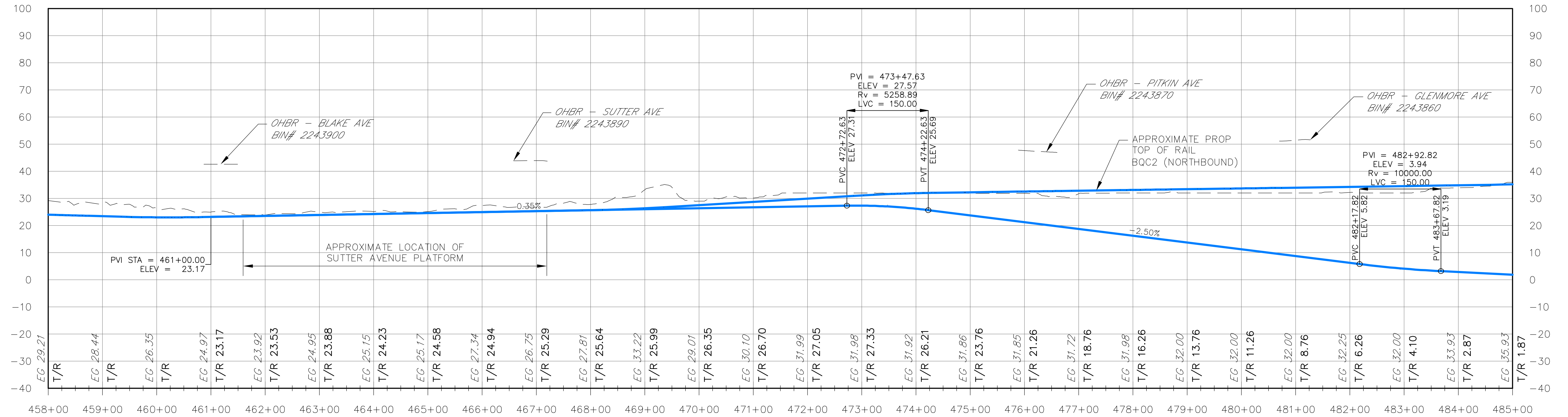


REV. NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY:
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JC
					CHECKED BY:
					WVN
					DATE:
					10-23-2020



MTA BAY RIDGE CONNECTOR
CR2 / CR4
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H) 1" = 20' (V)
SHEET NO: 26 OF 28



REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM

DRAWN BY:
JC

CHECKED BY:
WVN

DATE:
10-23-2020



MTA BAY RIDGE CONNECTOR
CR2 / CR4

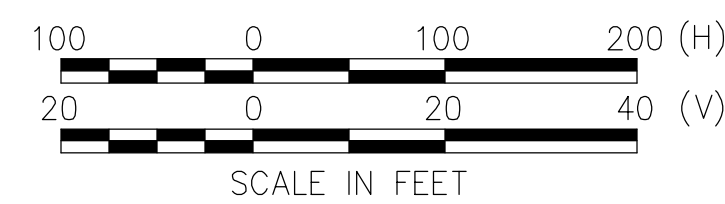
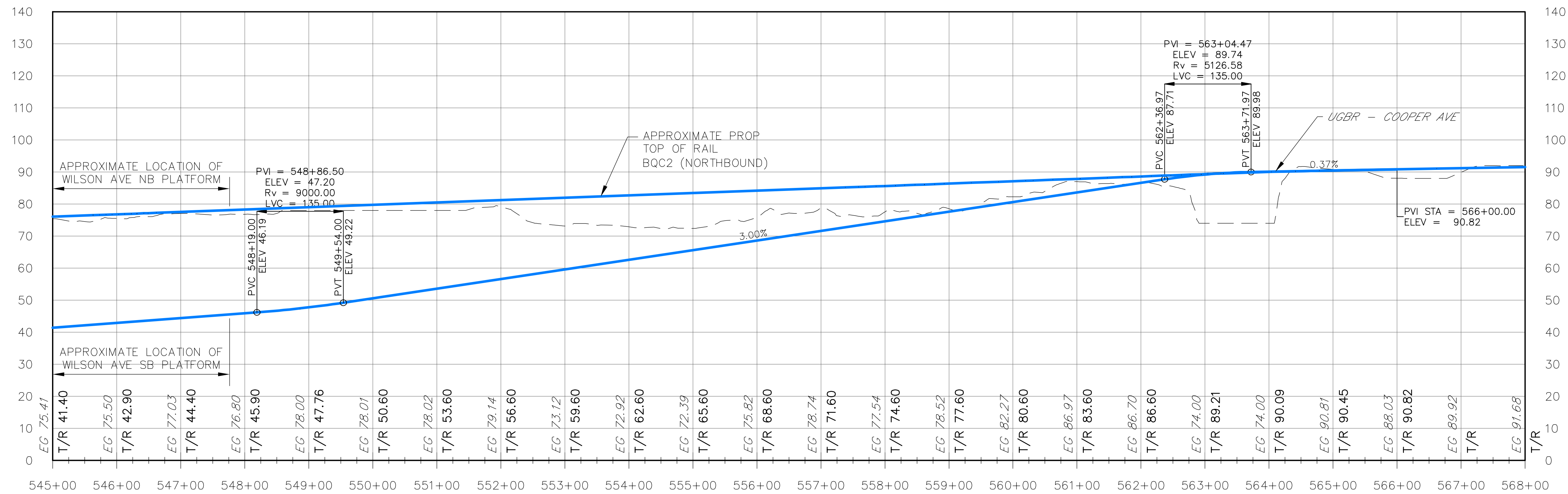
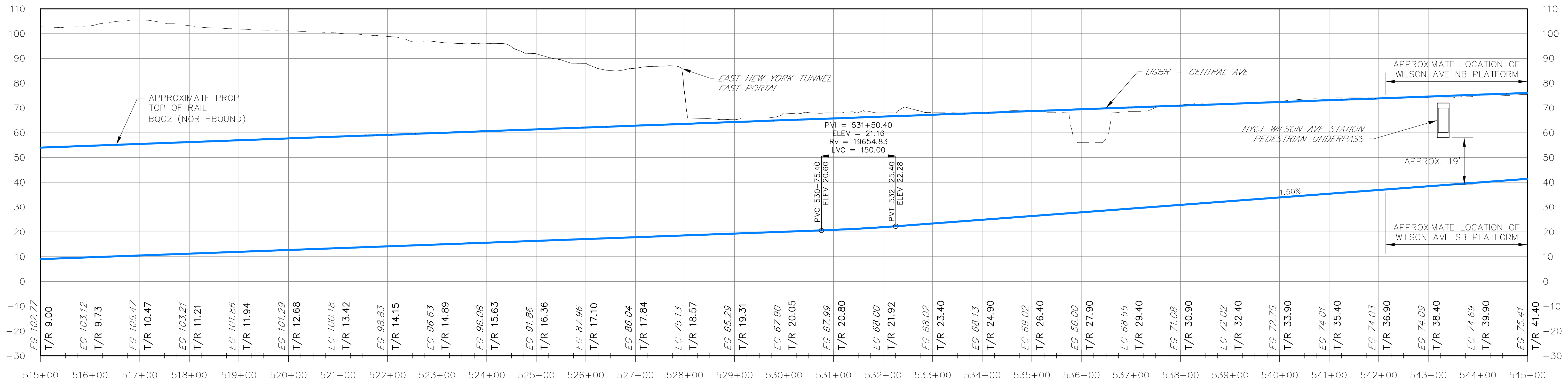
BQC1 TRACK PROFILE - 1 OF 2

PROJECT NO:

DRAWING NO:

SCALE: 1" = 100' (H)
1" = 20' (V)

SHEET NO:
27 OF 28



REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-14-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-18-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM

DRAWN BY:
JC

CHECKED BY:
WVN

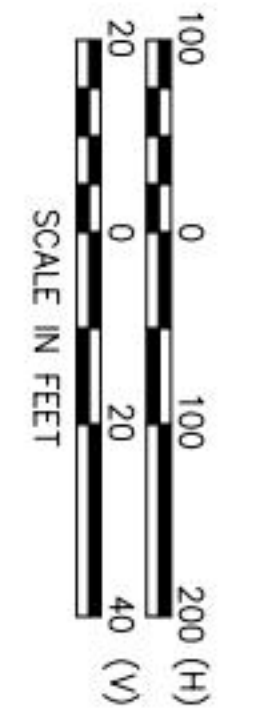
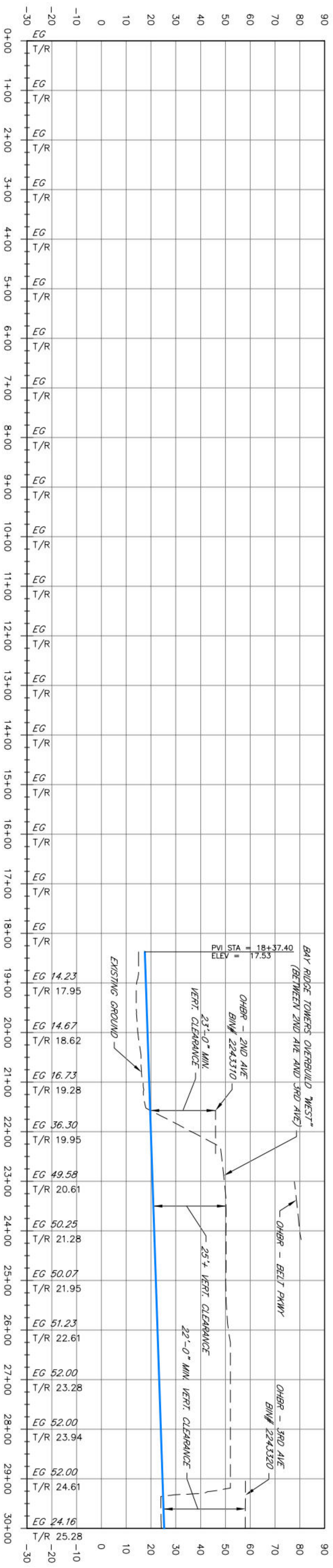
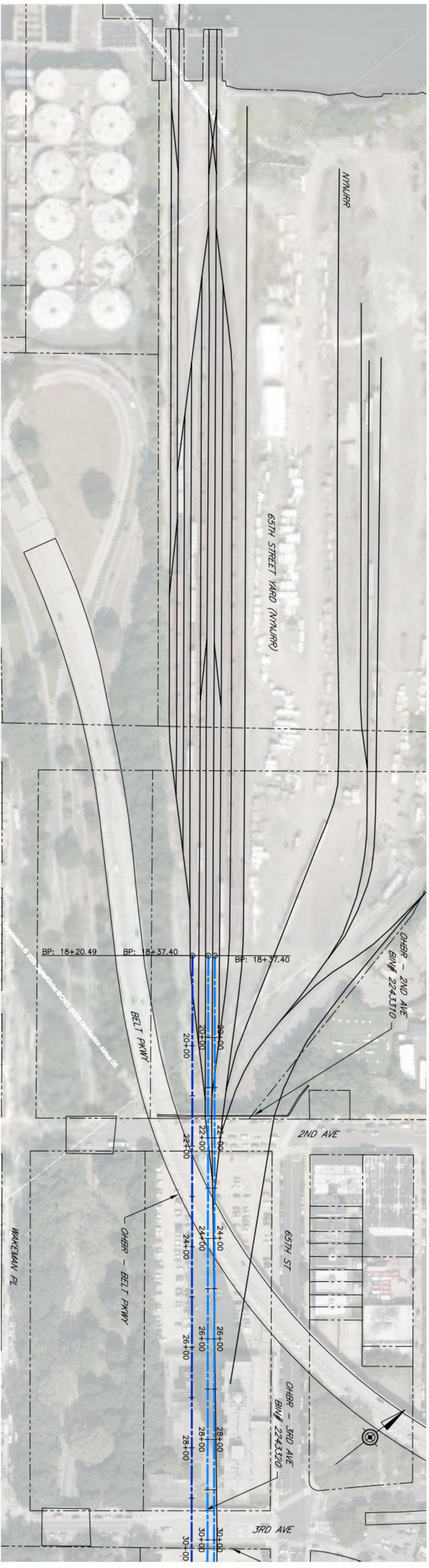
DATE:
10-23-2020



MTA BAY RIDGE CONNECTOR
CR2 / CR4

BQC1 TRACK PROFILE - 2 OF 2

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
28 OF 28

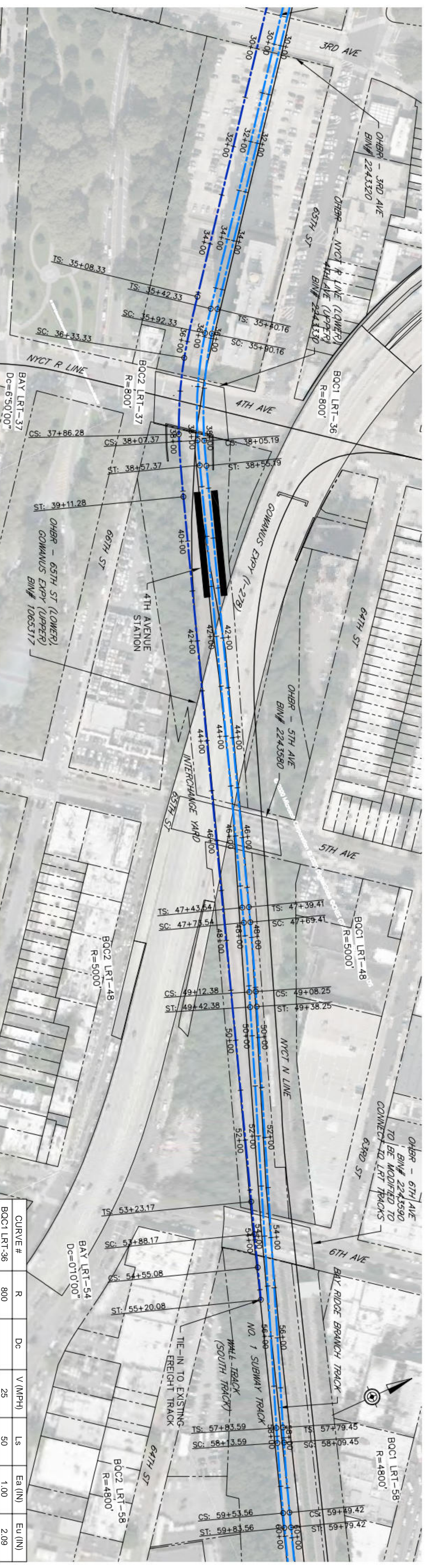


REV. NO.	DATE	BY	APP. BY	DESCRIPTION	DESIGNED BY:
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JJM
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	DRAWN BY:
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JJM
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	CHECKED BY: WVN
					DATE: 12-01-2020

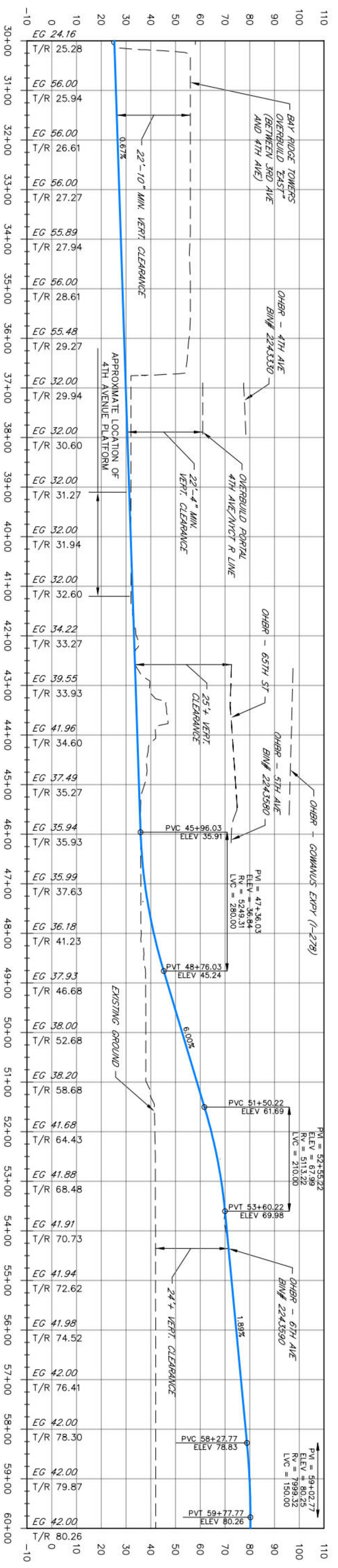
AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

**MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE**

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO: 01 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1 LRT-36	800		25	50	1.00	2.09
BOC1 LRT-48	5000		35	30	0.00	0.97
BOC1 LRT-58	4800		35	30	0.00	1.01
BOC2 LRT-37	800		25	50	1.00	2.09
BOC2 LRT-48	5000		35	30	0.00	0.97
BOC2 LRT-58	4800		35	30	0.00	1.01
BAY LRT-37		6° 50' 00"	30	125	2.00	2.31
BAY LRT-54		0° 10' 00"	40	65	0.50	-0.31



REV. NO.	DATE	BY	APP. BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS

DESIGNED BY:	
JJM	

DRAWN BY:	
JJM	

CHECKED BY:	
WVN	

DATE:	
12-01-2020	

AECOM
 1700 MARKET STREET
 PHILADELPHIA, PA 19103

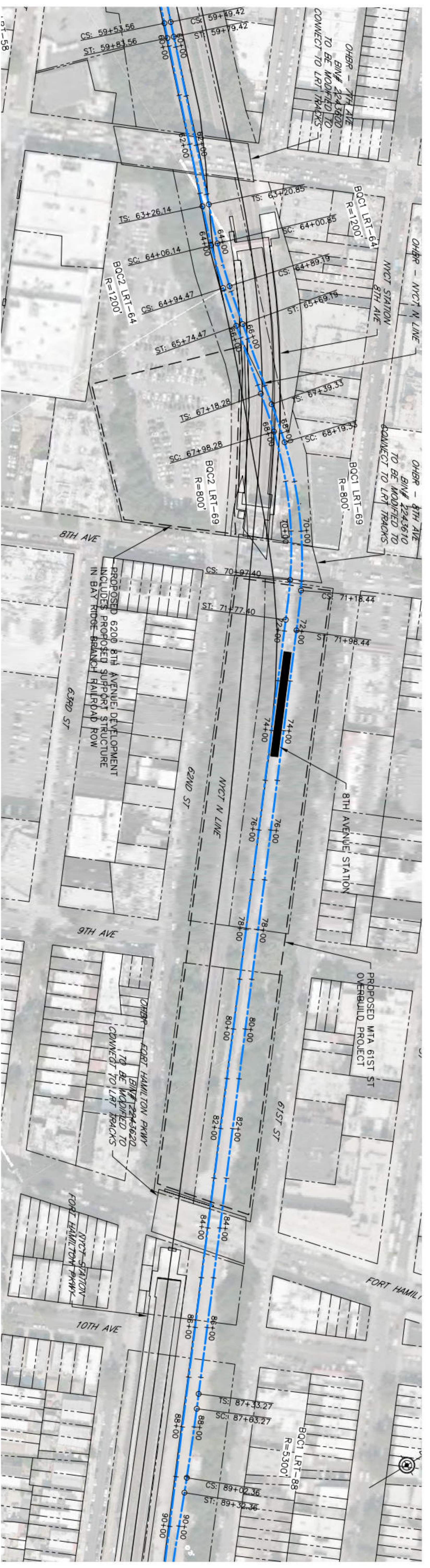
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO.:

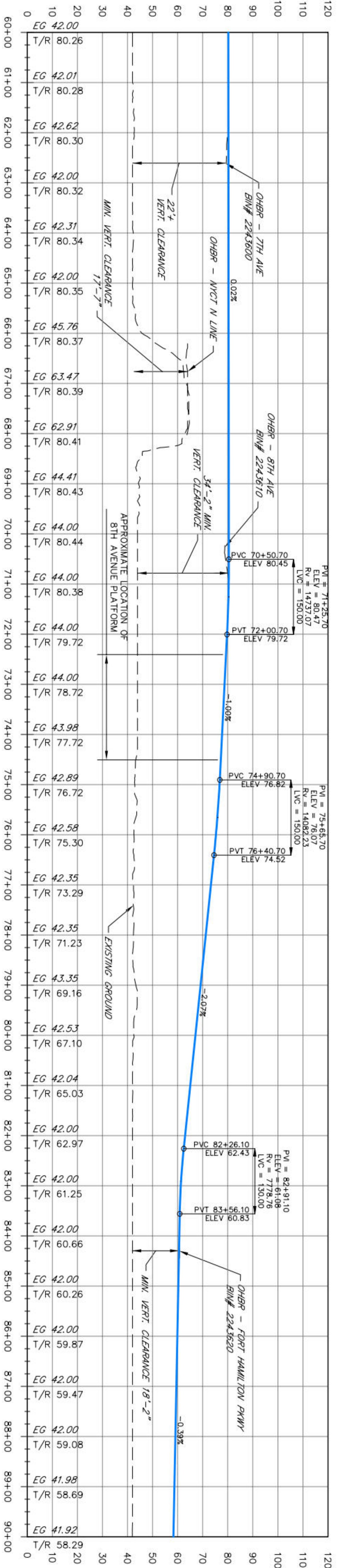
DRAWING NO.:

SCALE:
1" = 100' (H) 1" = 20' (V)

SHEET NO.:
02 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-64	1200		35	80	1.75	2.29
BQC1 LRT-69	800		30	80	1.75	2.71
BQC1 LRT-88	5300		35	30	0.50	0.42
BQC2 LRT-64	1200		35	80	1.75	2.29
BQC2 LRT-69	800		30	80	1.75	2.71



REV. NO.	DATE	BY	APP. BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
JJM	JJM	WVN	12-01-2020

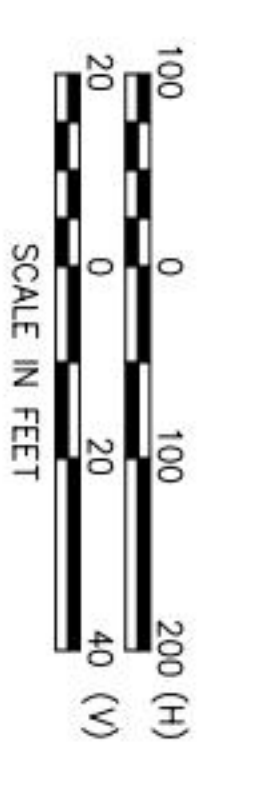
AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

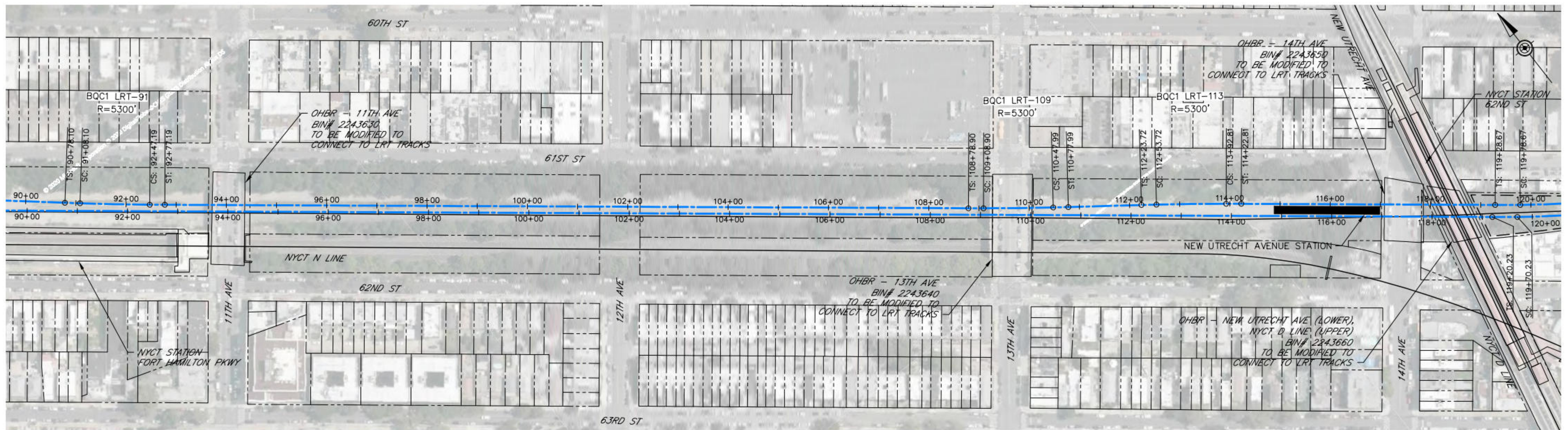
MTA BAY RIDGE CONNECTOR
LRT2

TRACK PLAN AND PROFILE

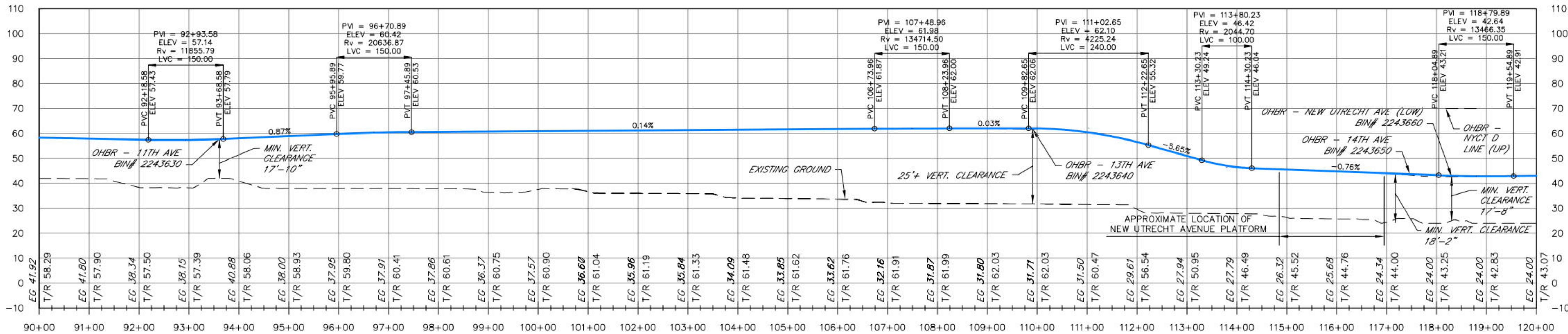
PROJECT NO.:	DRAWING NO.:	SCALE:
		1" = 100' (H) 1" = 20' (V)

SHEET NO. 03 OF 29



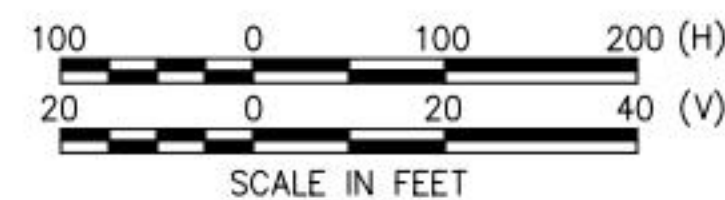


CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-91	5300		35	30	0.50	0.42
BQC1 LRT-109	5300		35	30	0.50	0.42
BQC1 LRT-113	5300		35	30	0.50	0.42



REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

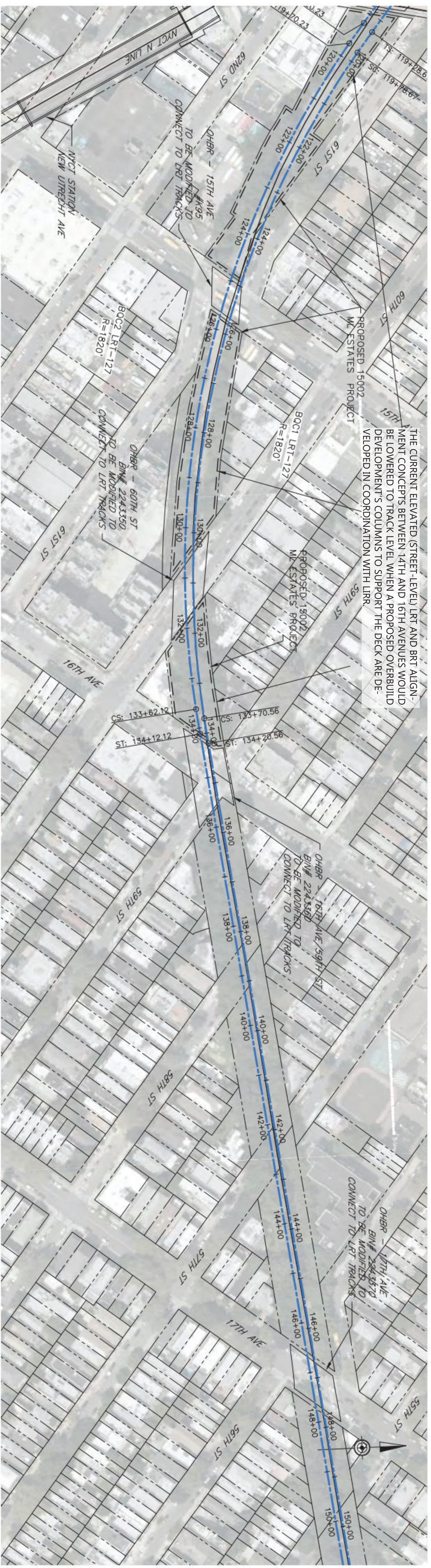
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020



AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

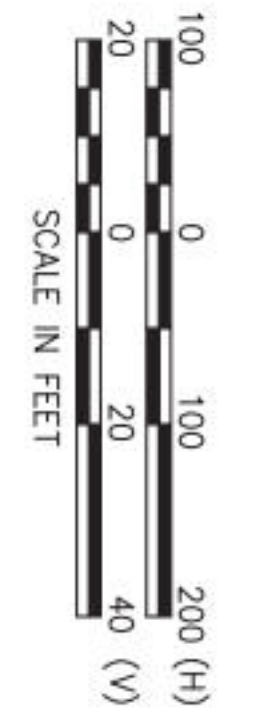
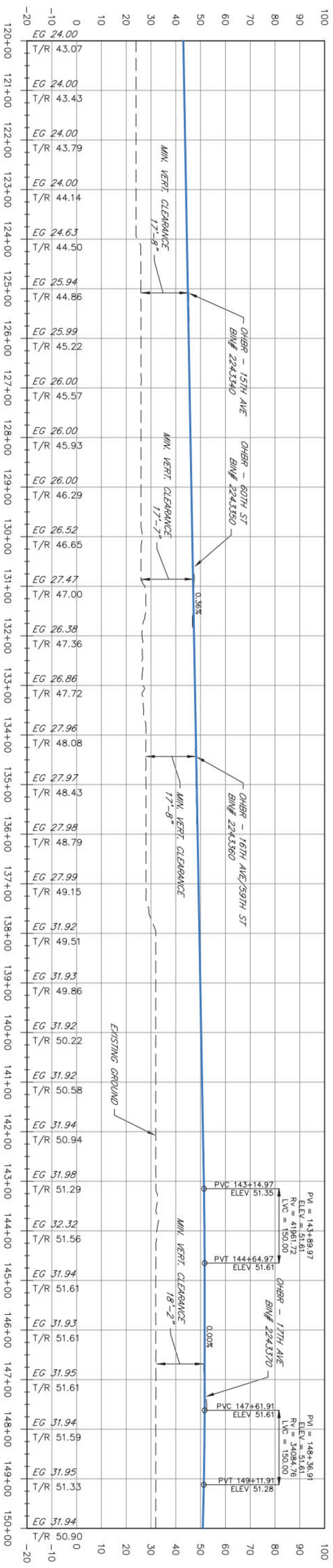
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
04 OF 29



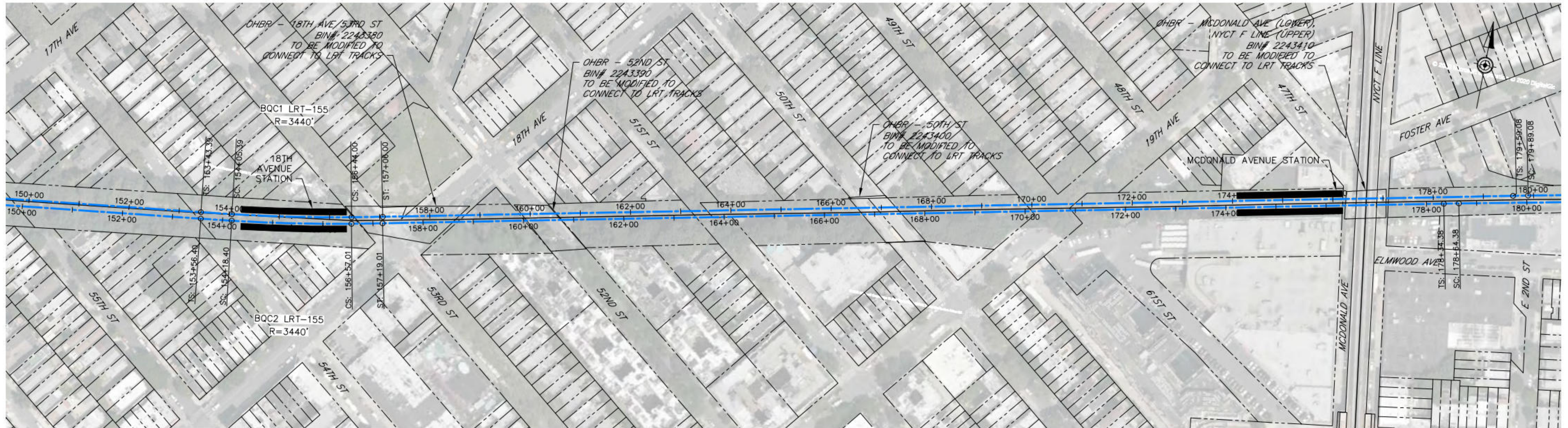
THE CURRENT ELEVATED (STREET LEVEL) LRT AND BRT ALIGNMENT CONCEPTS BETWEEN 14TH AND 16TH AVENUES WOULD BE LOWERED TO TRACK LEVEL WHEN A PROPOSED OVERBUILD DEVELOPMENT'S COLUMNS TO SUPPORT THE DECK ARE DEVELOPED IN COORDINATION WITH LIRR.

CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1 LRT-127	1820		35	50	1.00	1.67
BOC2 LRT-127	1820		35	50	1.00	1.67

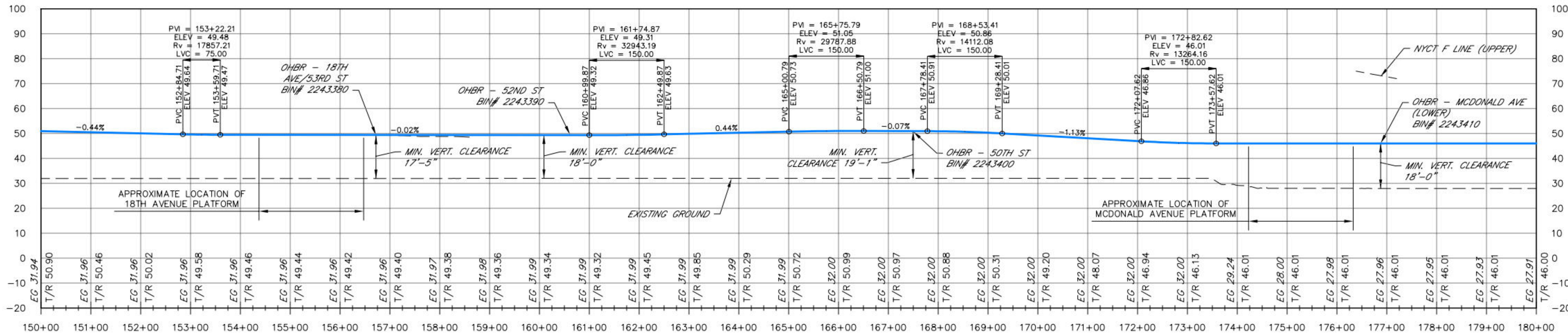


REV. NO.	DATE	BY	APP. BY	DESCRIPTION	DESIGNED BY:	PROJECT NO:	
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JJM	MTA BAY RIDGE CONNECTOR	
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JJM	LRT2	
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	JJM	DRAWING NO:	
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS	WVN	SCALE: 1" = 100' (H) 1" = 20' (V)	
					WVN	SHEET NO: 05 OF 29	
					DATE: 12-01-2020		

AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-155	3440		35	62	1.00	0.41
BQC2 LRT-155	3440		35	62	1.00	0.41



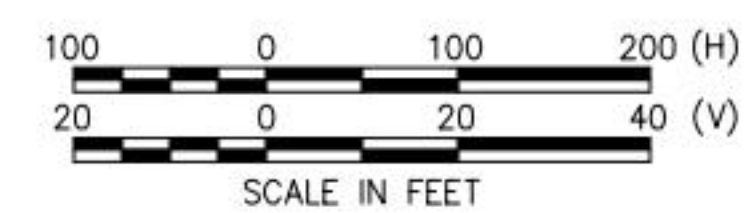
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY: JJM
 DRAWN BY: JJM
 CHECKED BY: WVN
 DATE: 12-01-2020



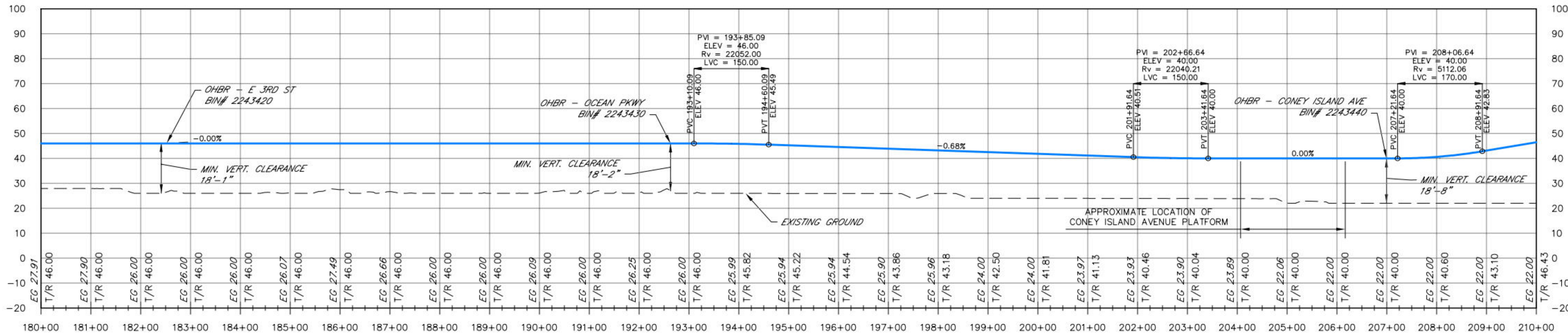
MTA BAY RIDGE CONNECTOR
 LRT2
 TRACK PLAN AND PROFILE

PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO: 06 OF 29





CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-188	24000		35	30	0.00	0.20
BQC2 LRT-187	24000		35	30	0.00	0.20



REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

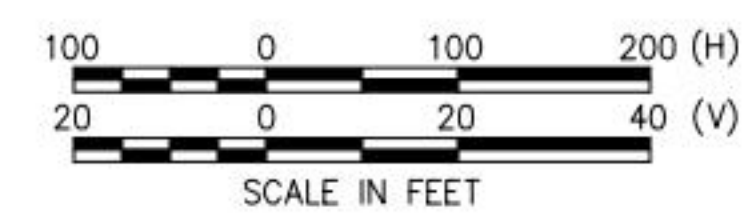
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020

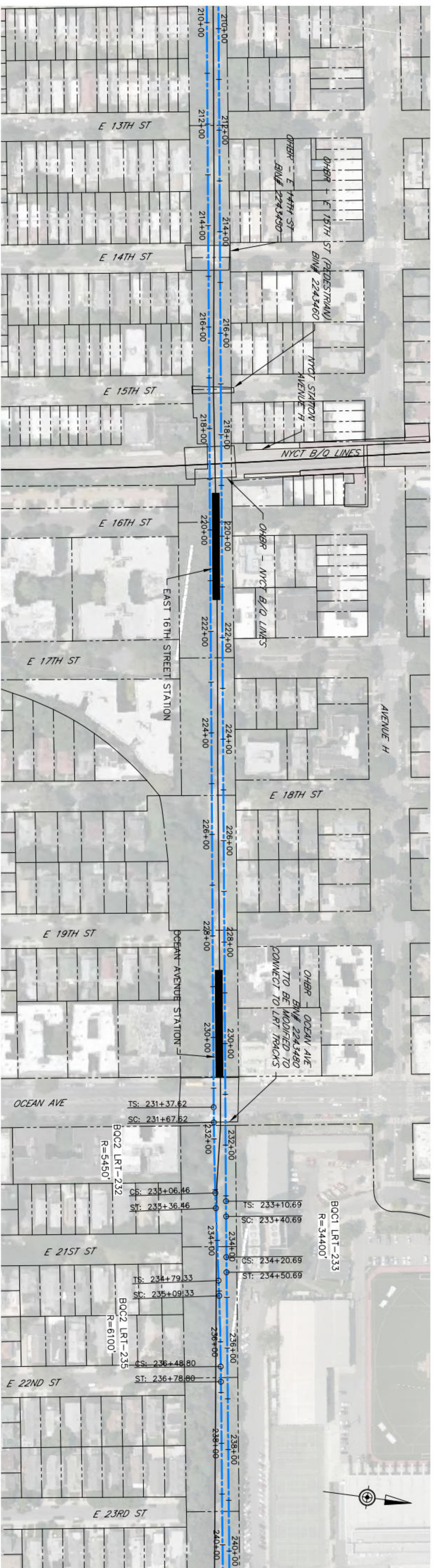


MTA BAY RIDGE CONNECTOR
LRT2

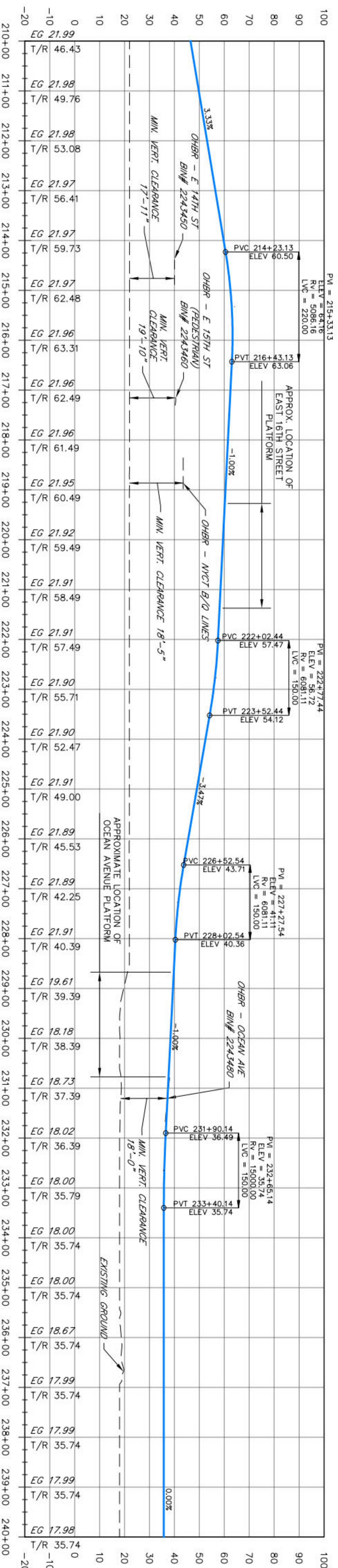
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
07 OF 29





CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1 LRT-233	34400		35	30	0.00	0.14
BOC2 LRT-232	5450		35	30	0.50	0.39
BOC2 LRT-235	6100		35	30	0.50	0.30



REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS

DESIGNED BY:	JJM
DRAWN BY:	JJM
CHECKED BY:	WVN
DATE:	12-01-2020

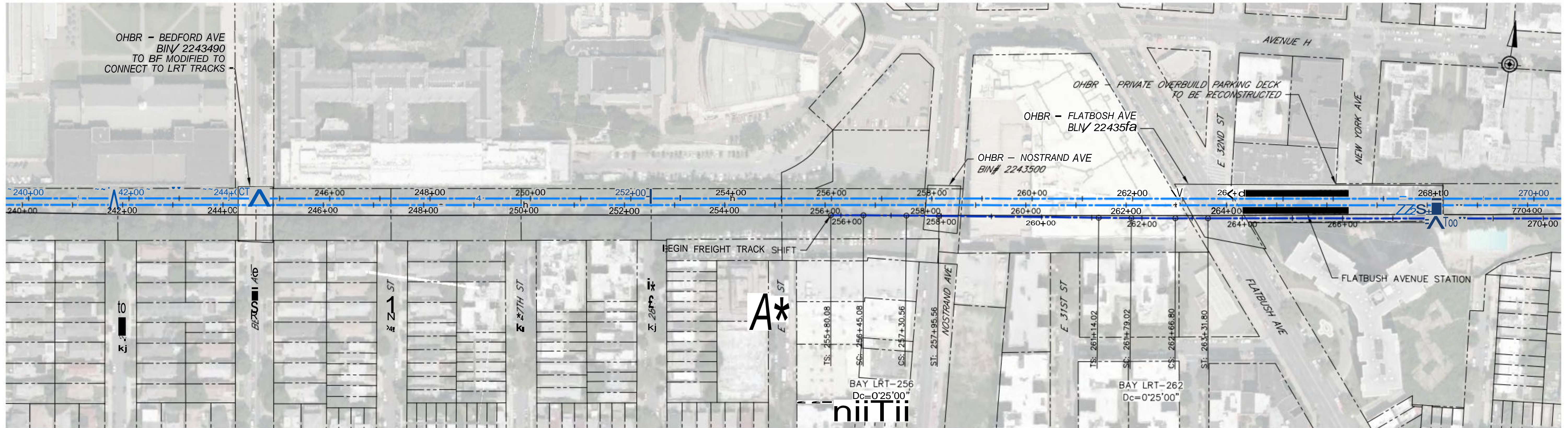
AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

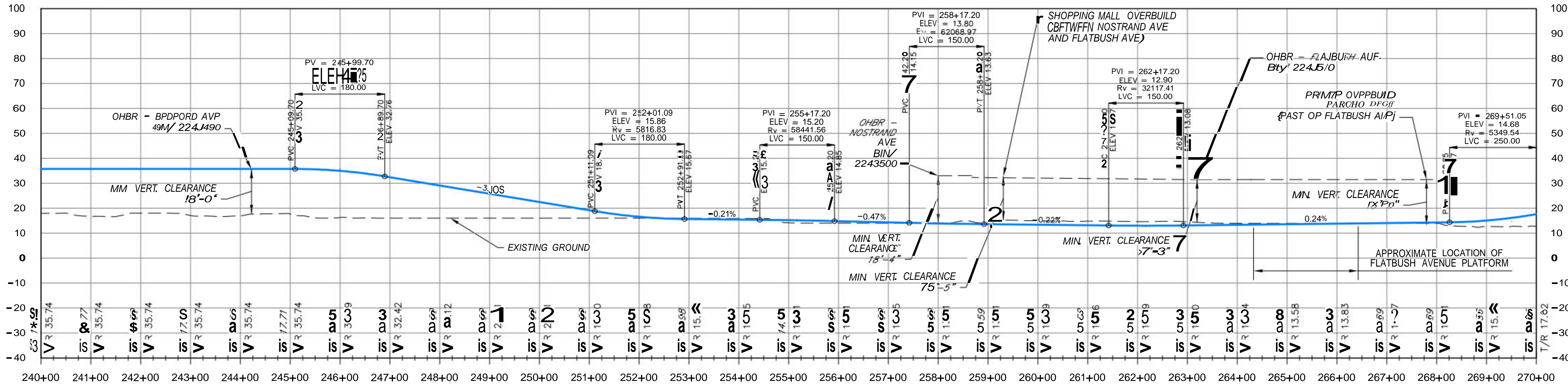
PROJECT NO.:	DRAWING NO.:

SCALE: 1" = 100' (H)
1" = 20' (V)

SHEET NO. 08 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BAY LRT-256		0° 25' 00"	40	65	0.50	-0.03
BAY LRT-262		0° 25' 00"	45	65	1.00	-0.41



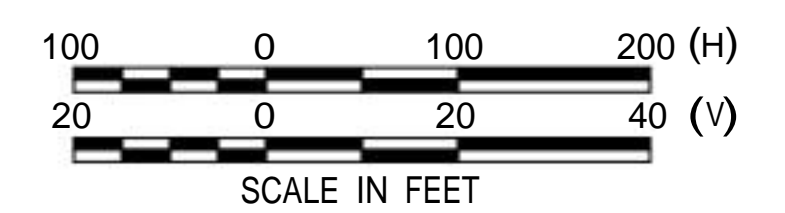
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

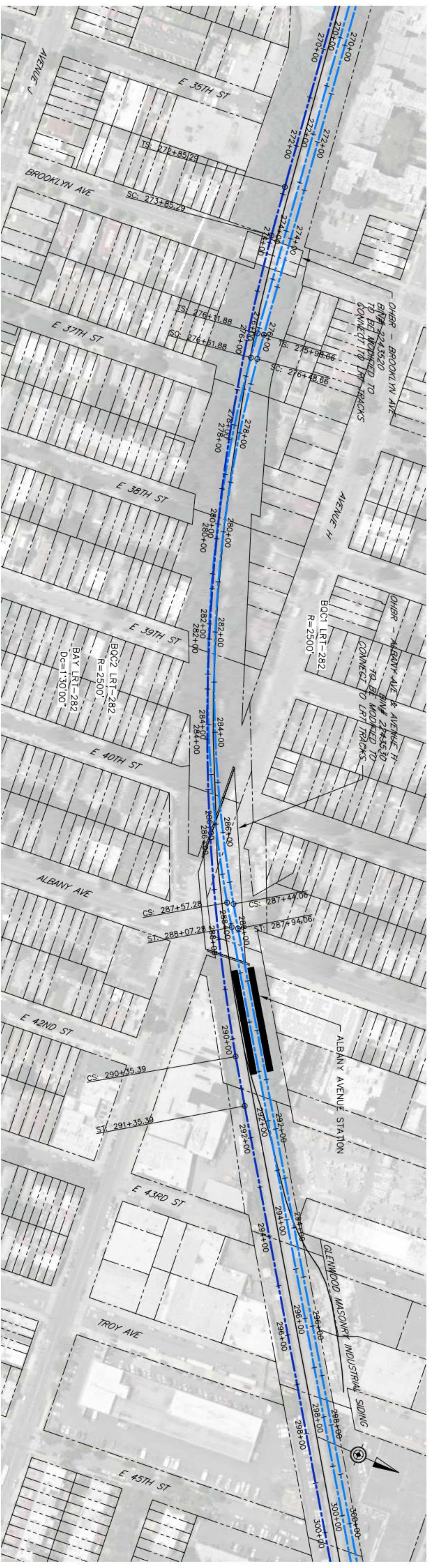
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020



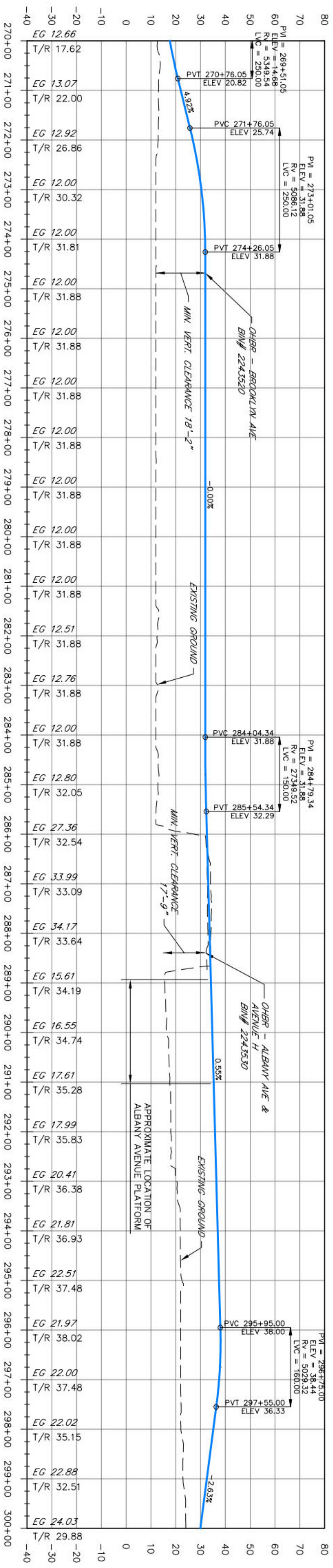
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
09 OF 29

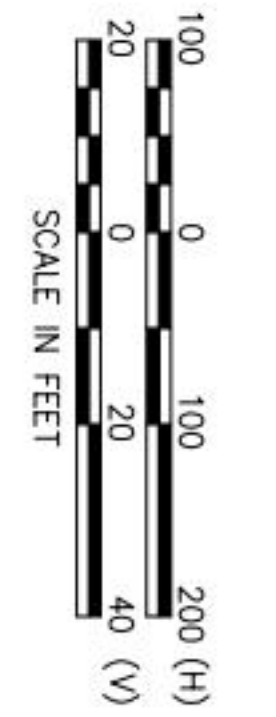




CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BOC1 LRT-282	2500		35	50	1.00	0.94
BOC2 LRT-282	2500		35	50	1.00	0.94
BAY LRT-282		1° 30' 00"	45	100	1.00	1.13



STATION	EG	T/R
270+00	12.66	17.62
271+00	13.07	22.00
272+00	12.92	26.86
273+00	12.00	30.32
274+00	12.00	31.81
275+00	12.00	31.88
276+00	12.00	31.88
277+00	12.00	31.88
278+00	12.00	31.88
279+00	12.00	31.88
280+00	12.00	31.88
281+00	12.00	31.88
282+00	12.51	31.88
283+00	12.76	31.88
284+00	12.00	31.88
285+00	12.80	32.05
286+00	27.36	32.54
287+00	33.99	33.09
288+00	34.17	33.64
289+00	15.61	34.19
290+00	16.55	34.74
291+00	17.61	35.28
292+00	17.99	35.83
293+00	20.41	36.38
294+00	21.81	36.93
295+00	22.51	37.48
296+00	21.97	38.02
297+00	22.00	37.48
298+00	22.02	35.15
299+00	22.88	32.51
300+00	24.03	29.88



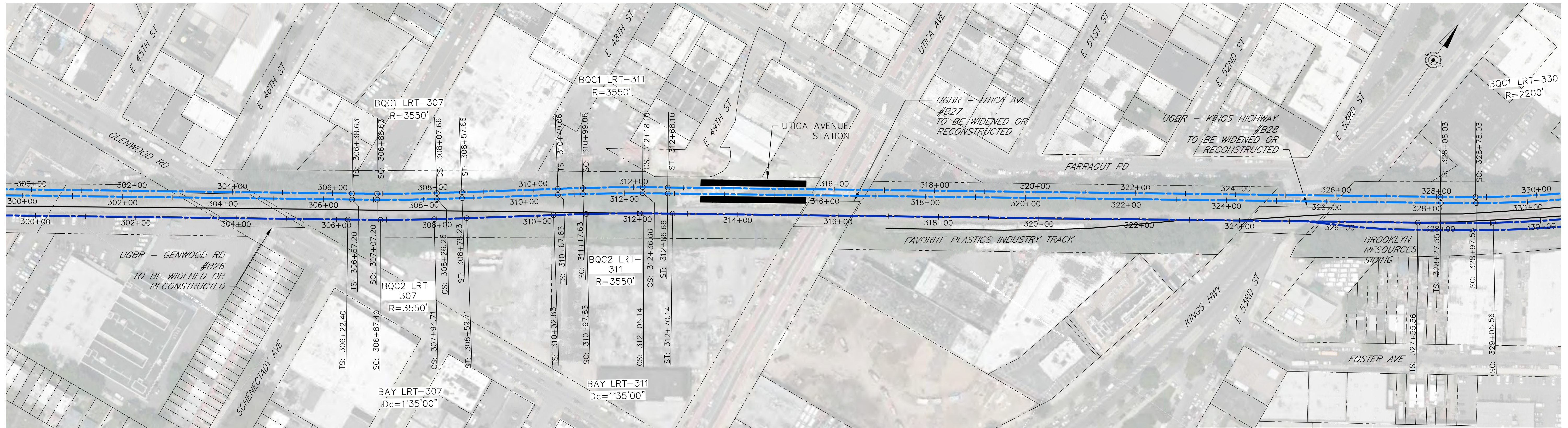
REV. NO.	DATE	BY	APP. BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS. WORK IN PROGRESS

DESIGNED BY:	DATE:
JJM	12-01-2020

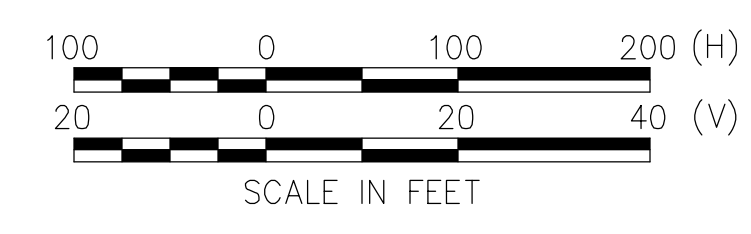
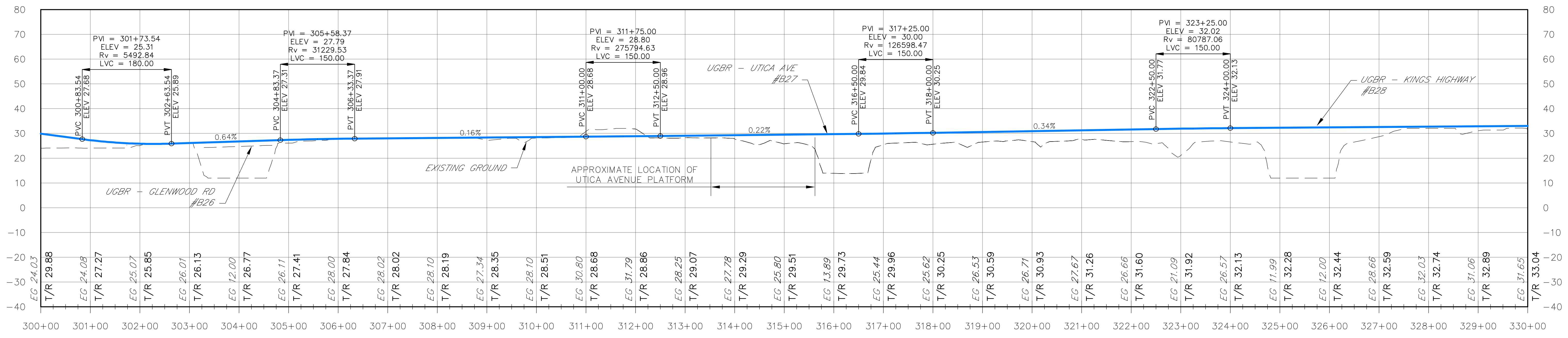


**MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE**

PROJECT NO.:	DRAWING NO.:	SCALE:
		1" = 100' (H) 1" = 20' (V)



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-307	3550		35	50	1.00	0.37
BQC1 LRT-311	3550		35	50	1.00	0.37
BQC2 LRT-307	3550		35	50	1.00	0.37
BQC2 LRT-311	3550		35	50	1.00	0.37
BAY LRT-307		1° 35' 00"	40	65	1.00	0.77
BAY LRT-311		1° 35' 00"	40	65	1.00	0.77



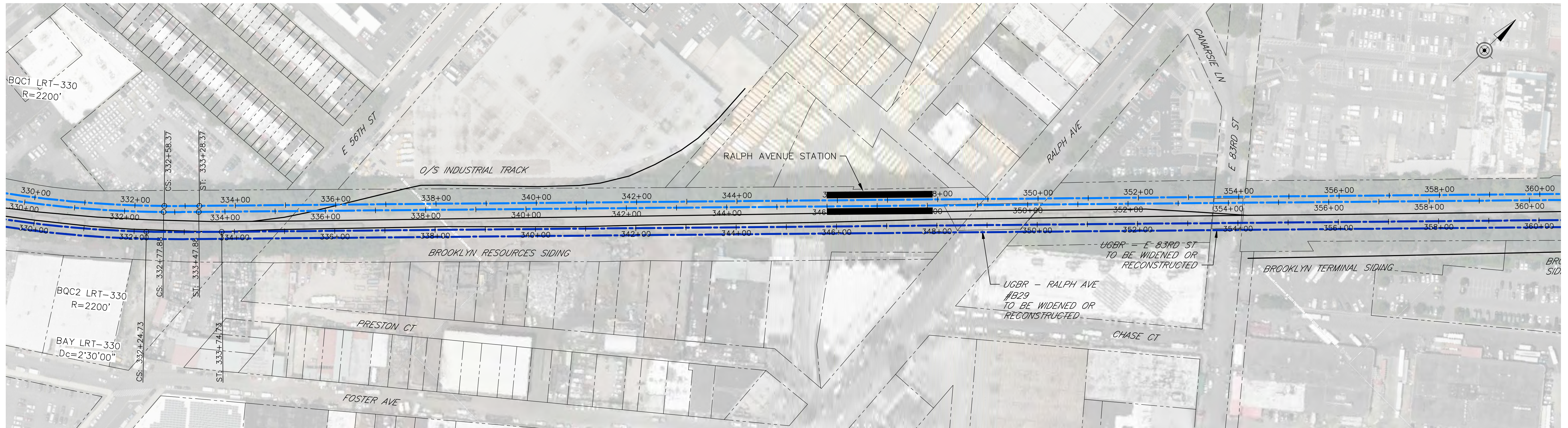
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020

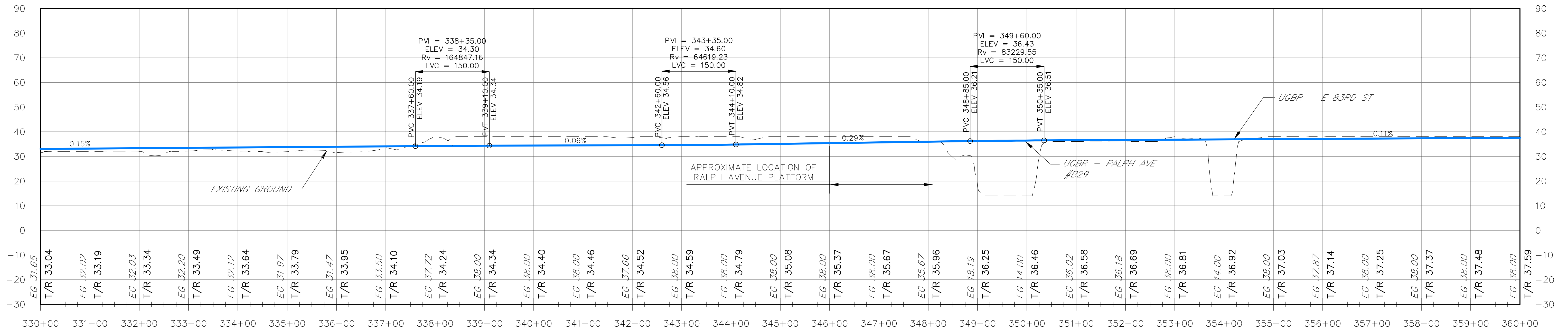


MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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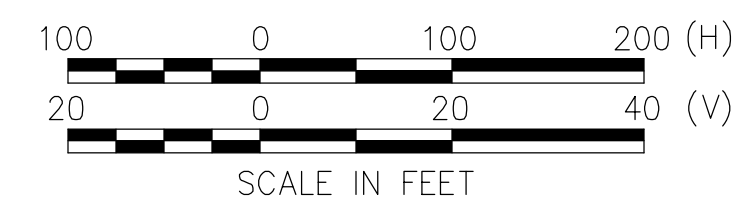


CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-330	2200		35	70	1.50	0.71
BQC2 LRT-330	2200		35	70	1.50	0.71
BAY LRT-330		2° 30' 00"	45	150	1.50	2.04



REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

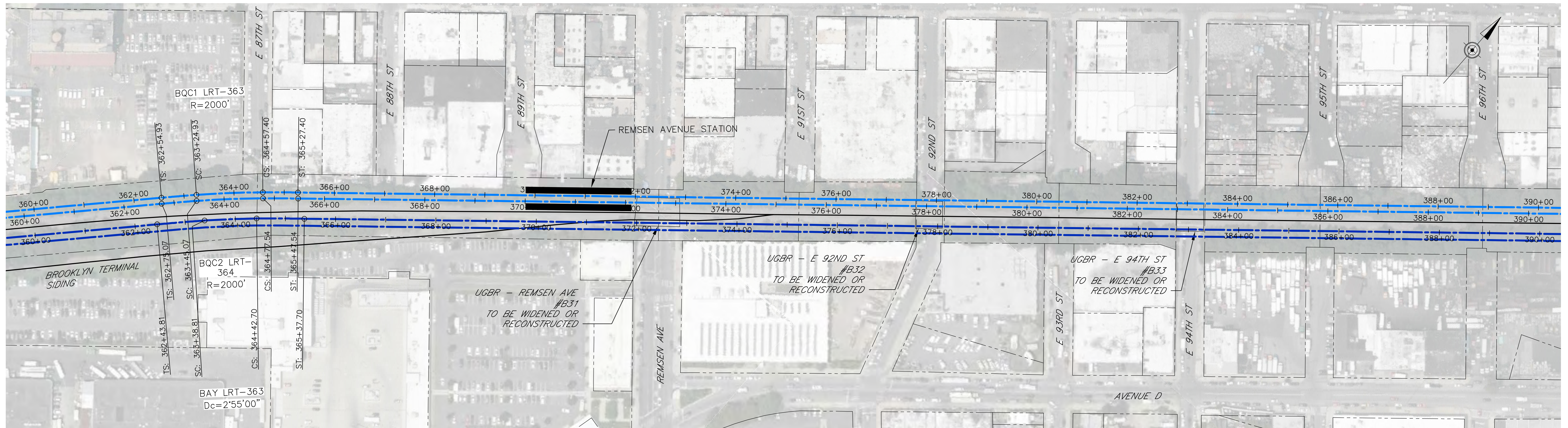
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020



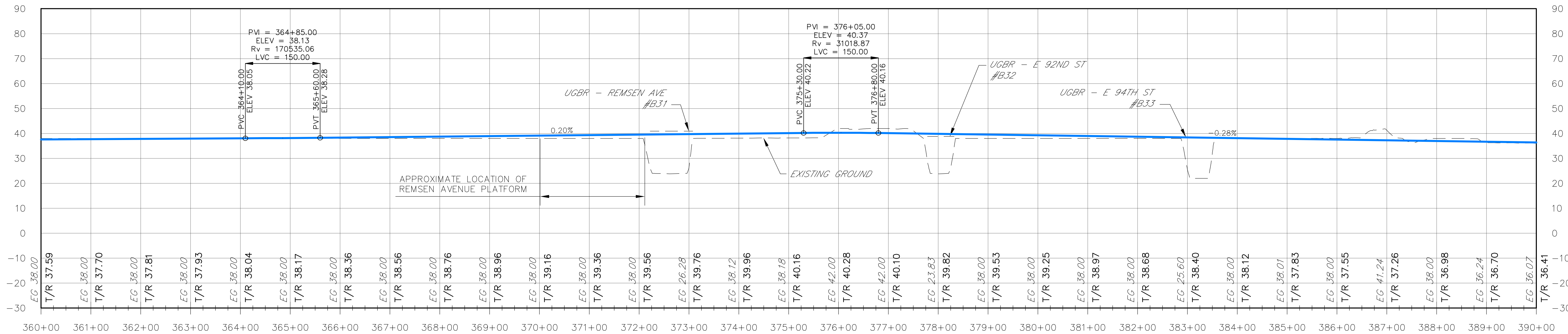
AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
12 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-363	2000		35	70	1.50	0.93
BQC2 LRT-364	2000		35	70	1.50	0.93
BAY LRT-363		2° 55' 00"	35	95	1.50	1.00



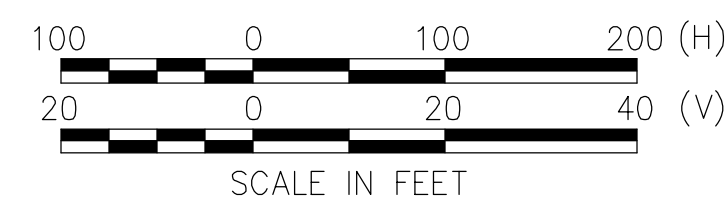
REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

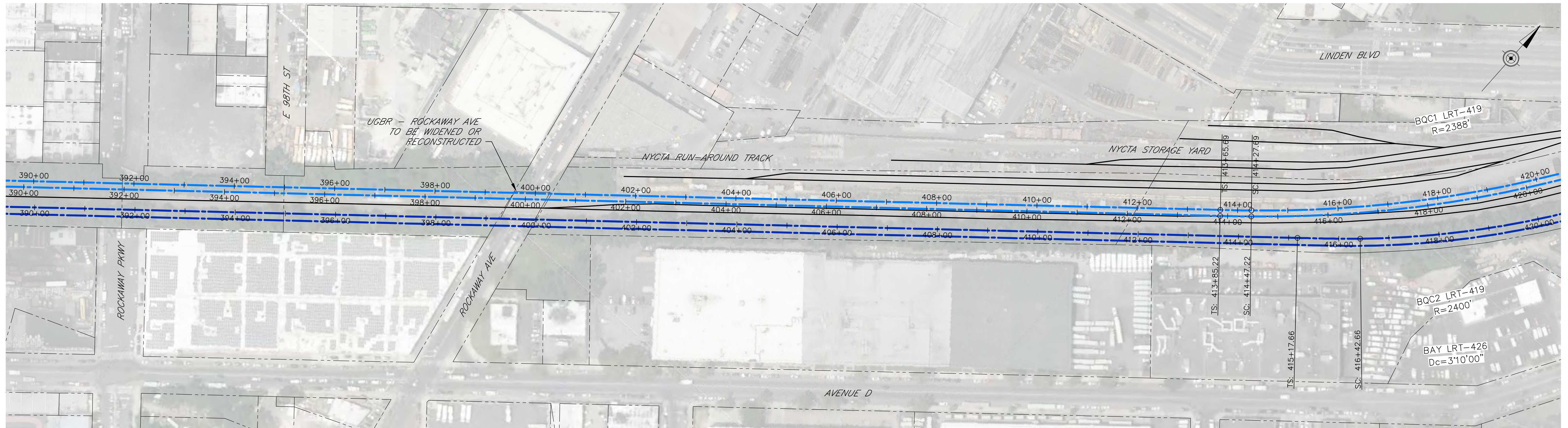
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020



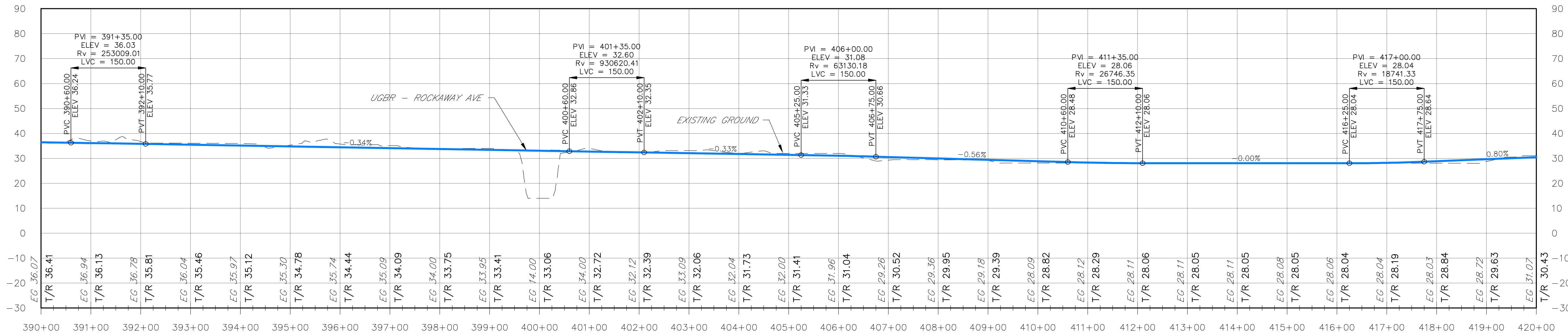
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-419	2388		35	62	1.25	0.78
BQC2 LRT-419	2400		35	62	1.25	0.77



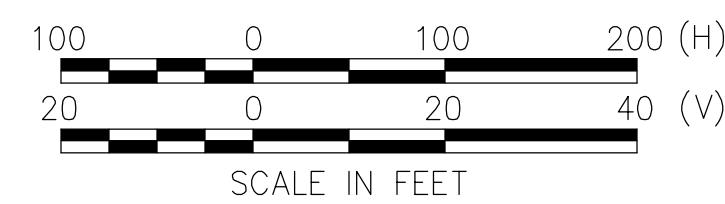
REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

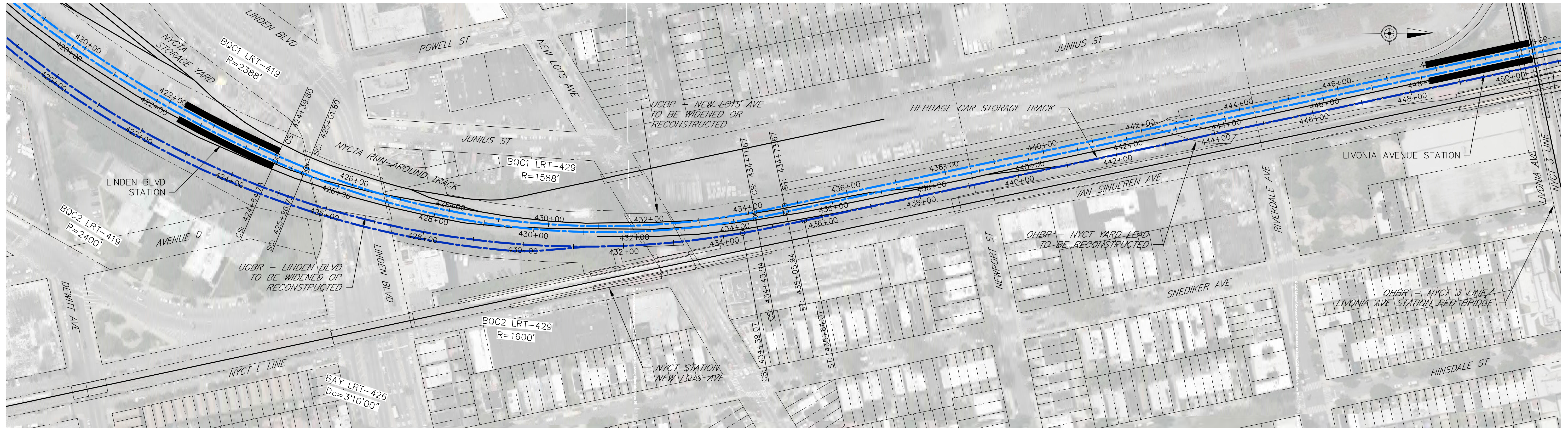
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020



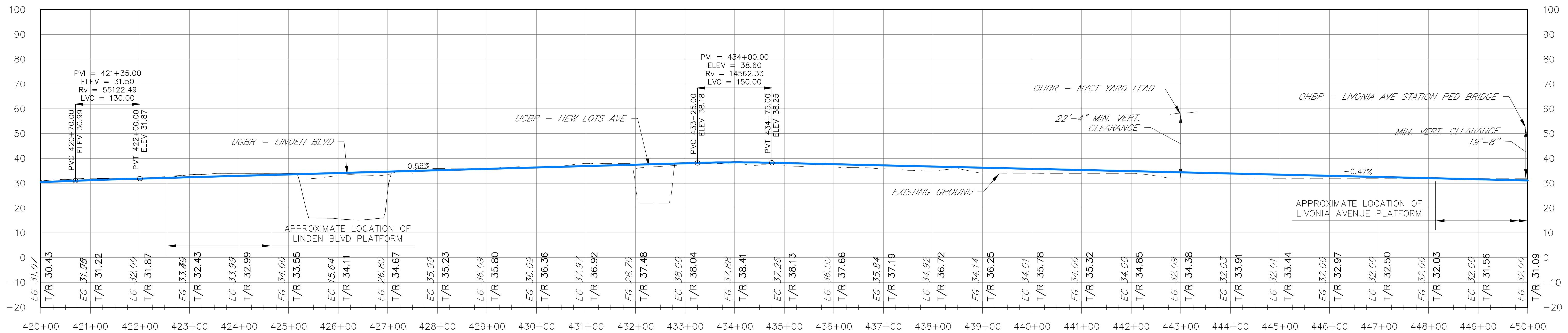
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-429	1588		35	62	1.25	1.80
BQC2 LRT-429	1600		35	62	1.25	1.78
BAY LRT-426		3° 10' 00"	40	125	2.00	1.55



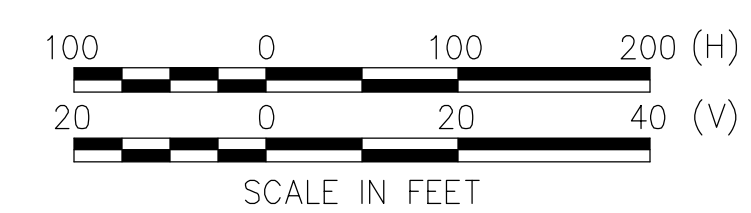
REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

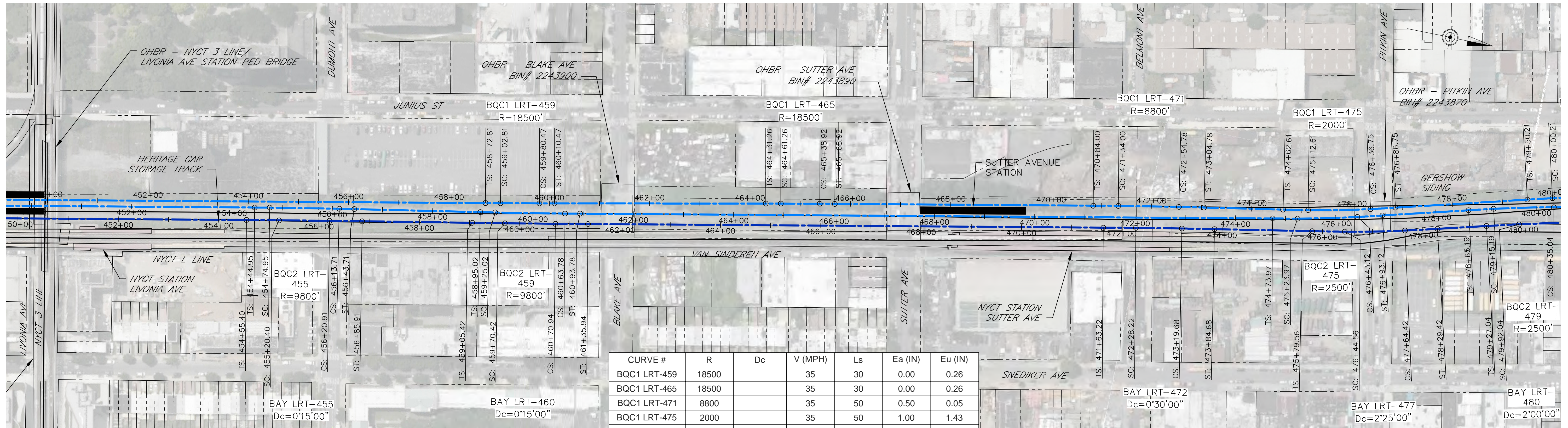
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020



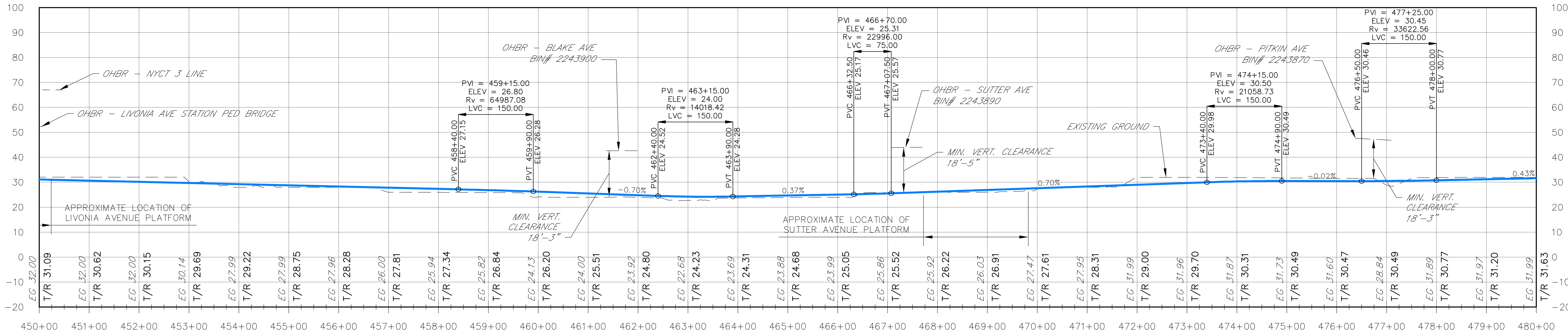
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
15 OF 29



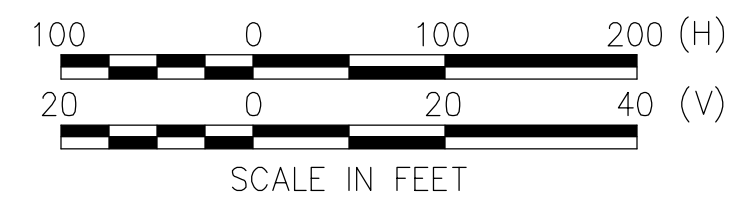


CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-459	18500		35	30	0.00	0.26
BQC1 LRT-465	18500		35	30	0.00	0.26
BQC1 LRT-471	8800		35	50	0.50	0.05
BQC1 LRT-475	2000		35	50	1.00	1.43
BQC2 LRT-455	9800		35	30	0.50	-0.01
BQC2 LRT-459	9800		35	30	0.50	-0.01
BQC2 LRT-475	2500		35	50	1.00	0.94
BQC2 LRT-479	2500		35	50	1.00	0.94
BAY LRT-455		0° 15' 00"	45	65	1.00	-0.65
BAY LRT-460		0° 15' 00"	45	65	1.00	-0.65
BAY LRT-472		0° 30' 00"	45	65	1.00	-0.29
BAY LRT-477		2° 25' 00"	40	65	1.25	1.46
BAY LRT-480		2° 00' 00"	40	65	1.25	0.99



REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

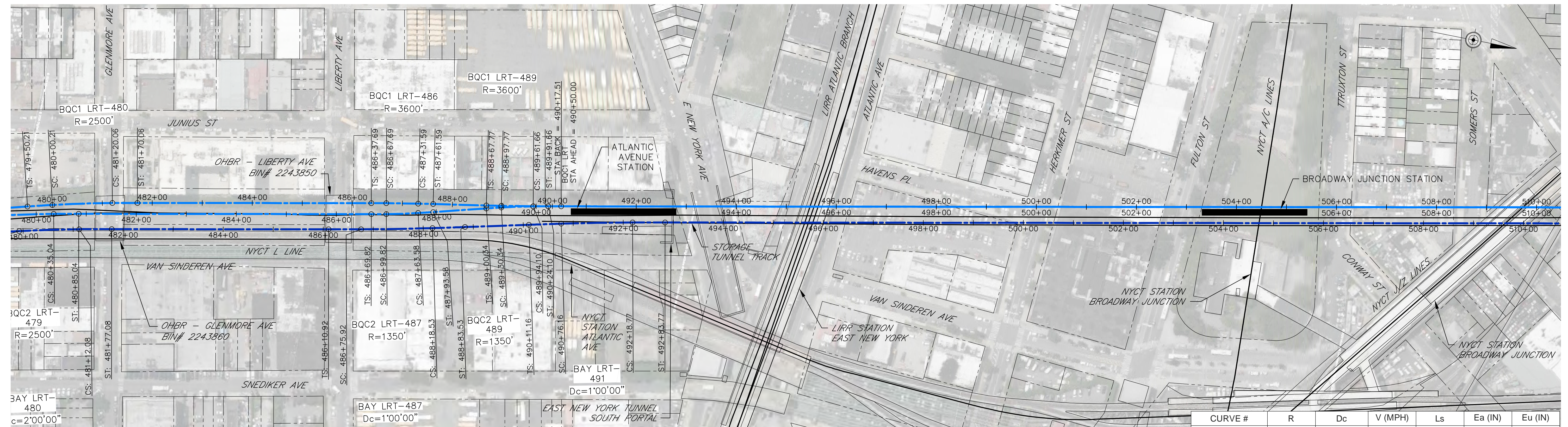
DESIGNED BY: JJM
 DRAWN BY: JJM
 CHECKED BY: WVN
 DATE: 12-01-2020



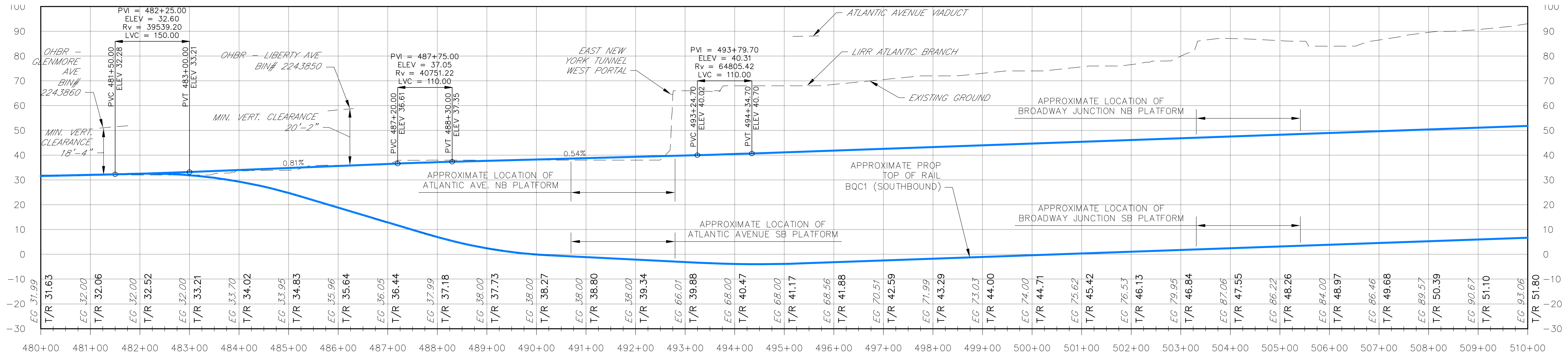
AECOM
 1700 MARKET STREET
 PHILADELPHIA, PA 19103

**MTA BAY RIDGE CONNECTOR
 LRT2**
TRACK PLAN AND PROFILE

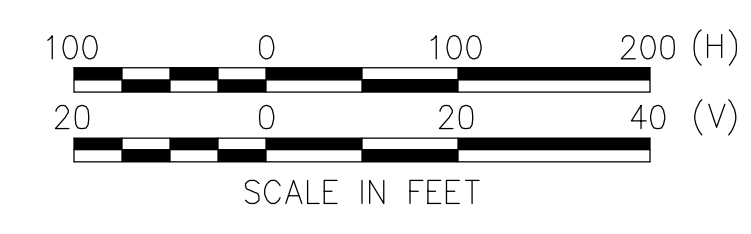
PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO:
 16 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-480	2500		35	50	1.00	0.94
BQC1 LRT-486	3600		35	30	0.50	0.85
BQC1 LRT-489	3600		35	30	0.50	0.85
BQC2 LRT-487	1350		25	30	0.50	1.33
BQC2 LRT-489	1350		25	30	0.50	1.33
BAY LRT-487		1° 00' 00"	45	65	1.00	0.42
BAY LRT-491		1° 00' 00"	45	65	1.00	0.42



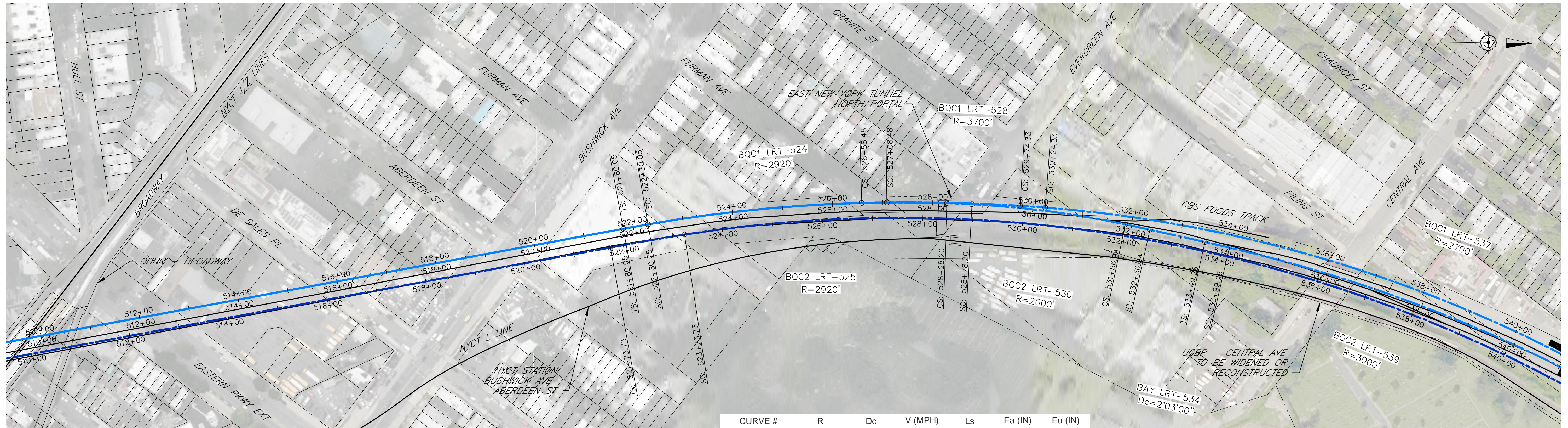
REV. NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY:
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	CHECKED BY:
					WVN
					DATE:
					12-01-2020



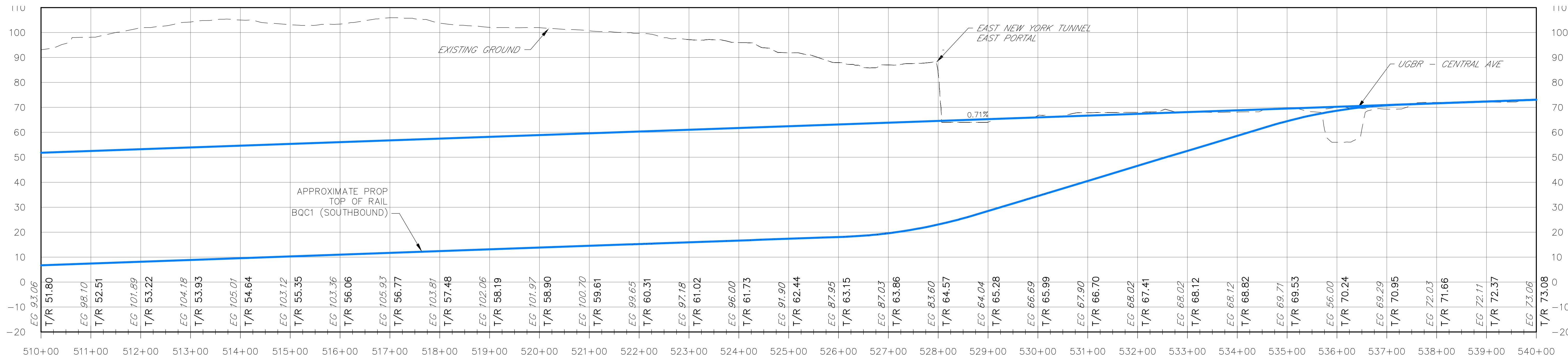
**MTA BAY RIDGE CONNECTOR
LRT2**

TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H) 1" = 20' (V)
SHEET NO: 17 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-524	2920		35	50	1.00	0.66
BQC1 LRT-528	3700		35	50	1.00	0.31
BQC1 LRT-537	2700		35	50	1.00	0.80
BQC2 LRT-525	2920		35	50	1.00	0.66
BQC2 LRT-530	2000		35	50	1.00	1.43
BQC2 LRT-539	3000		35	50	1.00	0.62
BAY LRT-534		2° 03' 00"	45	150	1.00	1.91



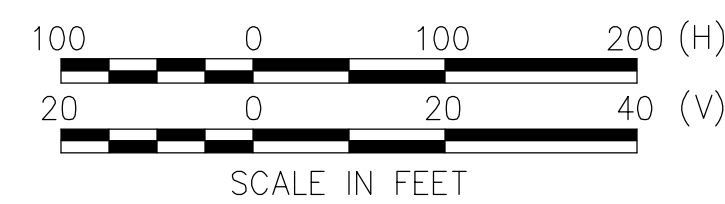
REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

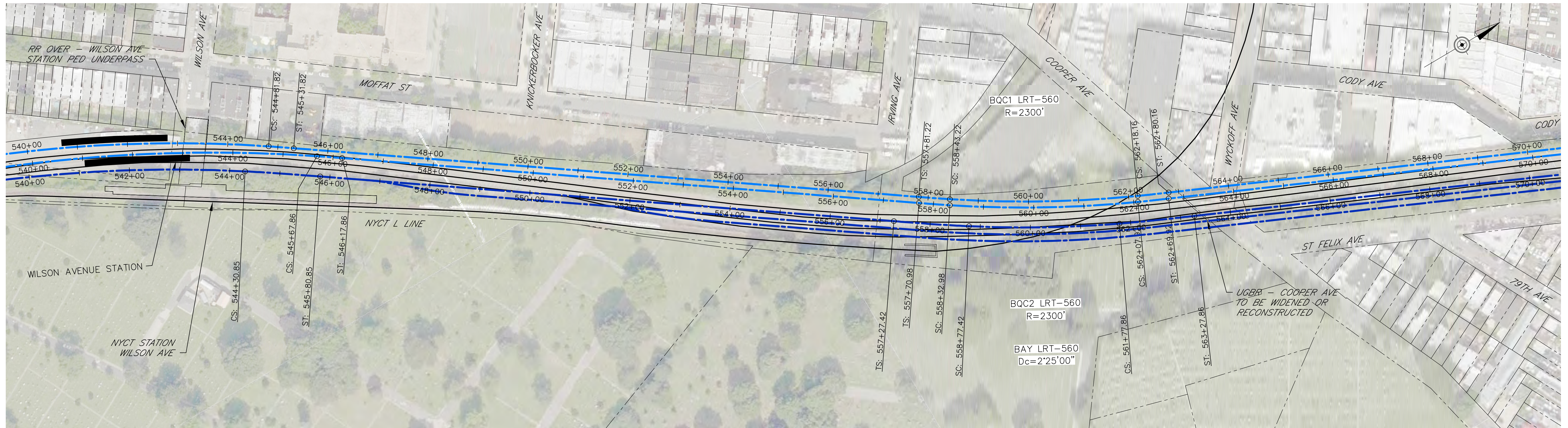
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020

AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

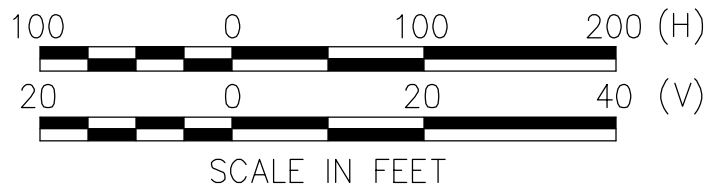
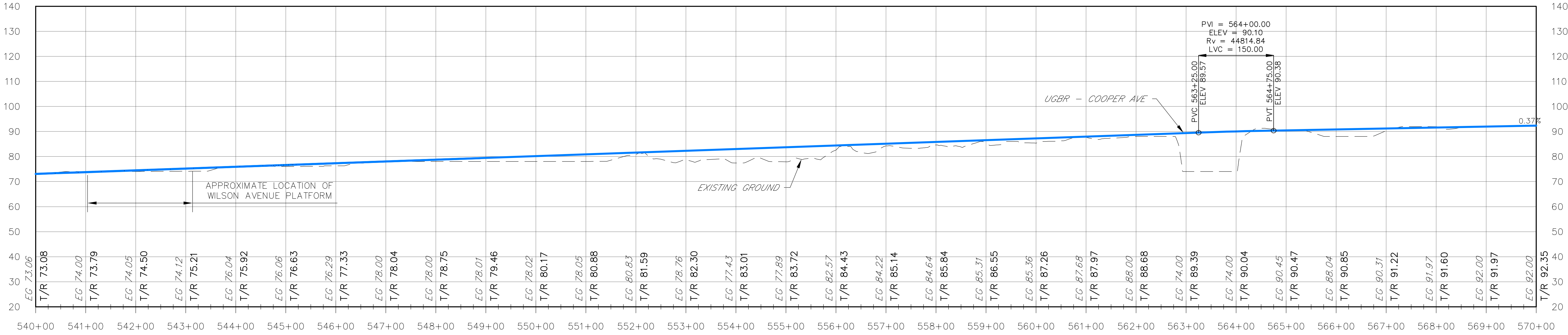
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
18 OF 29





CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-560	2300		35	62	1.00	1.11
BQC2 LRT-560	2300		35	62	1.00	1.11
BAY LRT-560		2° 25' 00"	45	150	1.50	1.93



REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

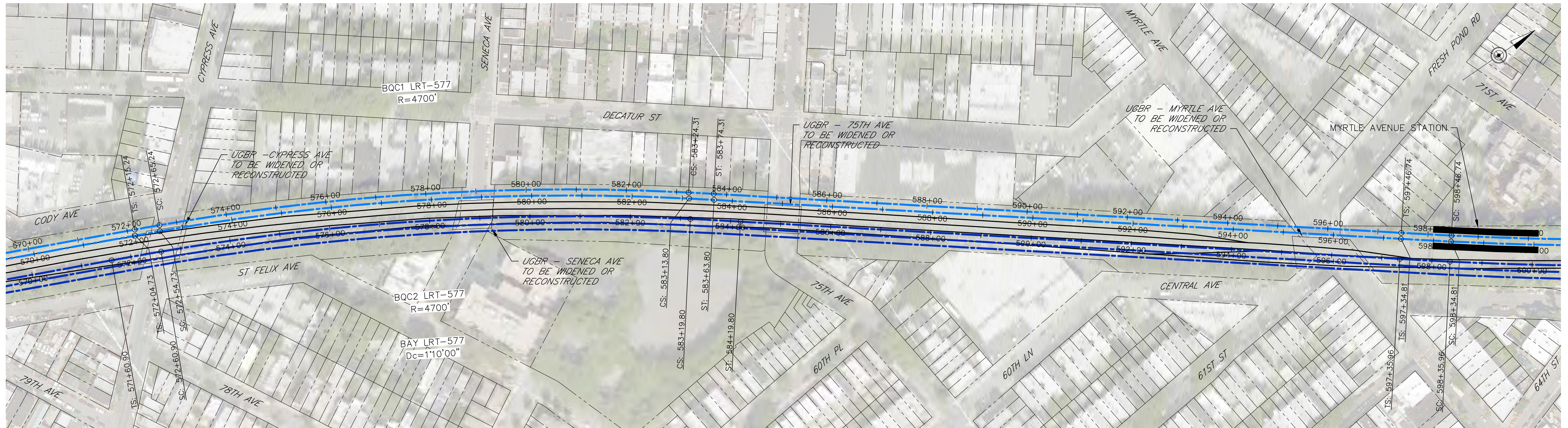
DESIGNED BY:
JJM
 DRAWN BY:
JJM
 CHECKED BY:
WVN
 DATE:
12-01-2020



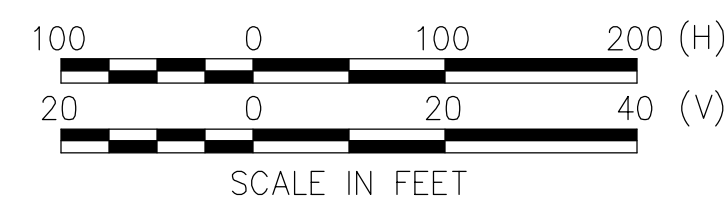
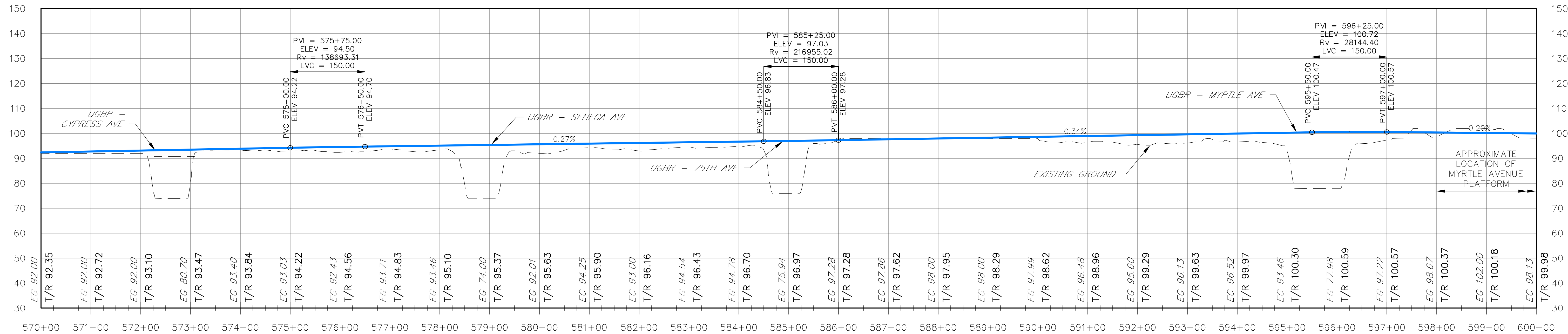
**MTA BAY RIDGE CONNECTOR
LRT2**

TRACK PLAN AND PROFILE

PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO:
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CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-577	4700		35	50	1.00	0.03
BQC2 LRT-577	4700		35	50	1.00	0.03
BAY LRT-577		1° 10' 00"	45	100	1.00	0.65



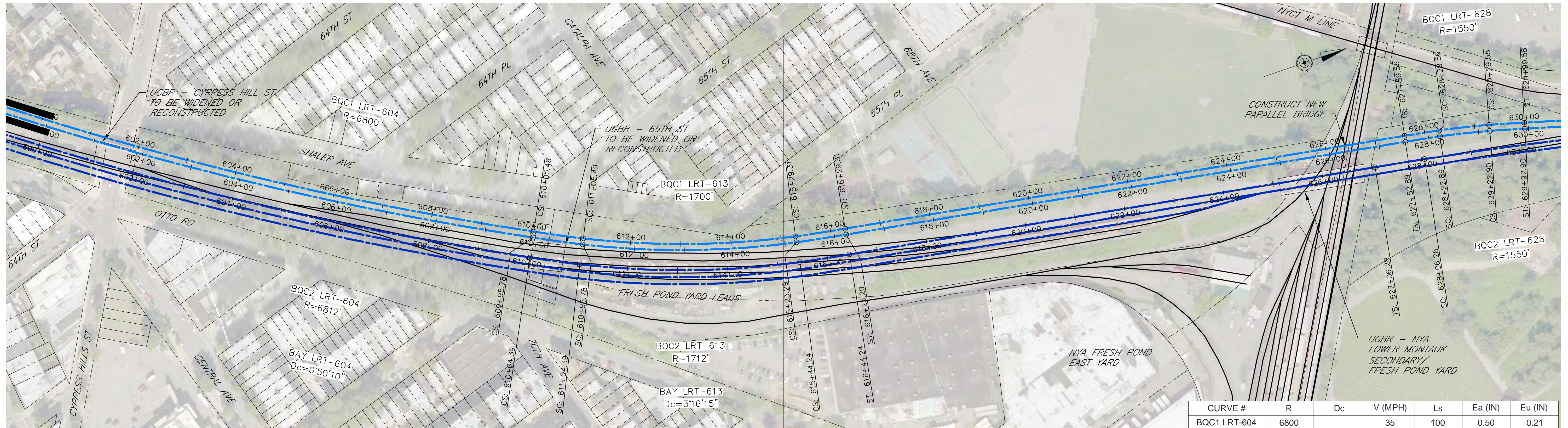
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020

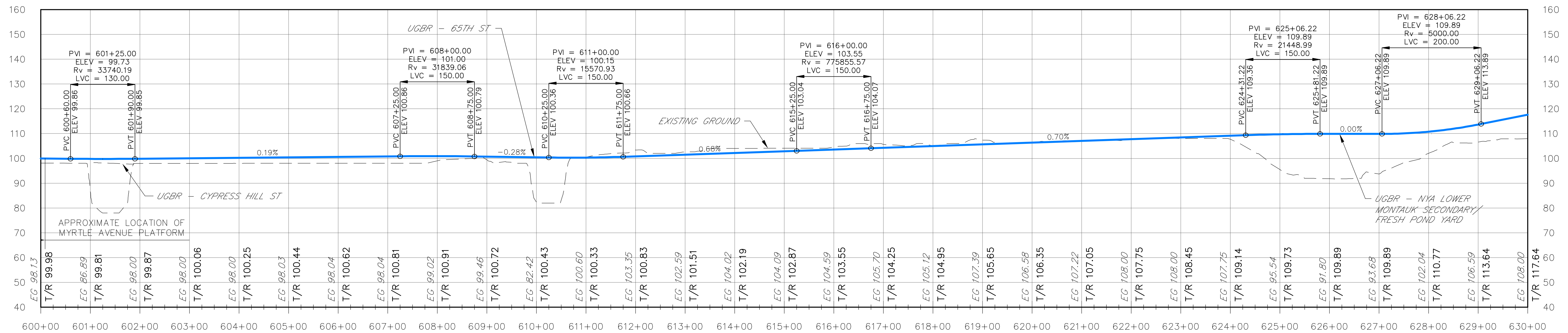


MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

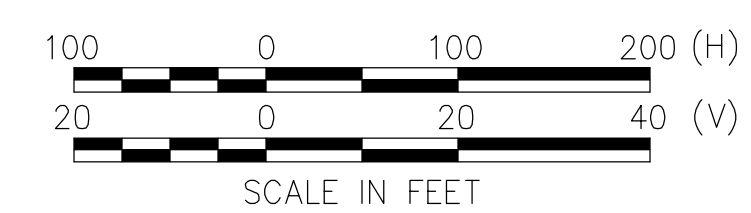
PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
20 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-604	6800		35	100	0.50	0.21
BQC1 LRT-613	1700		35	100	1.50	1.35
BQC1 LRT-628	1550		35	70	1.50	1.63
BQC2 LRT-604	6812		35	100	0.50	0.21
BQC2 LRT-613	1712		35	100	1.50	1.33
BQC2 LRT-628	1550		35	70	1.50	1.63
BAY LRT-604		0° 50' 10"	45	100	1.00	0.19
BAY LRT-613		3° 16' 15"	40	100	2.00	1.66



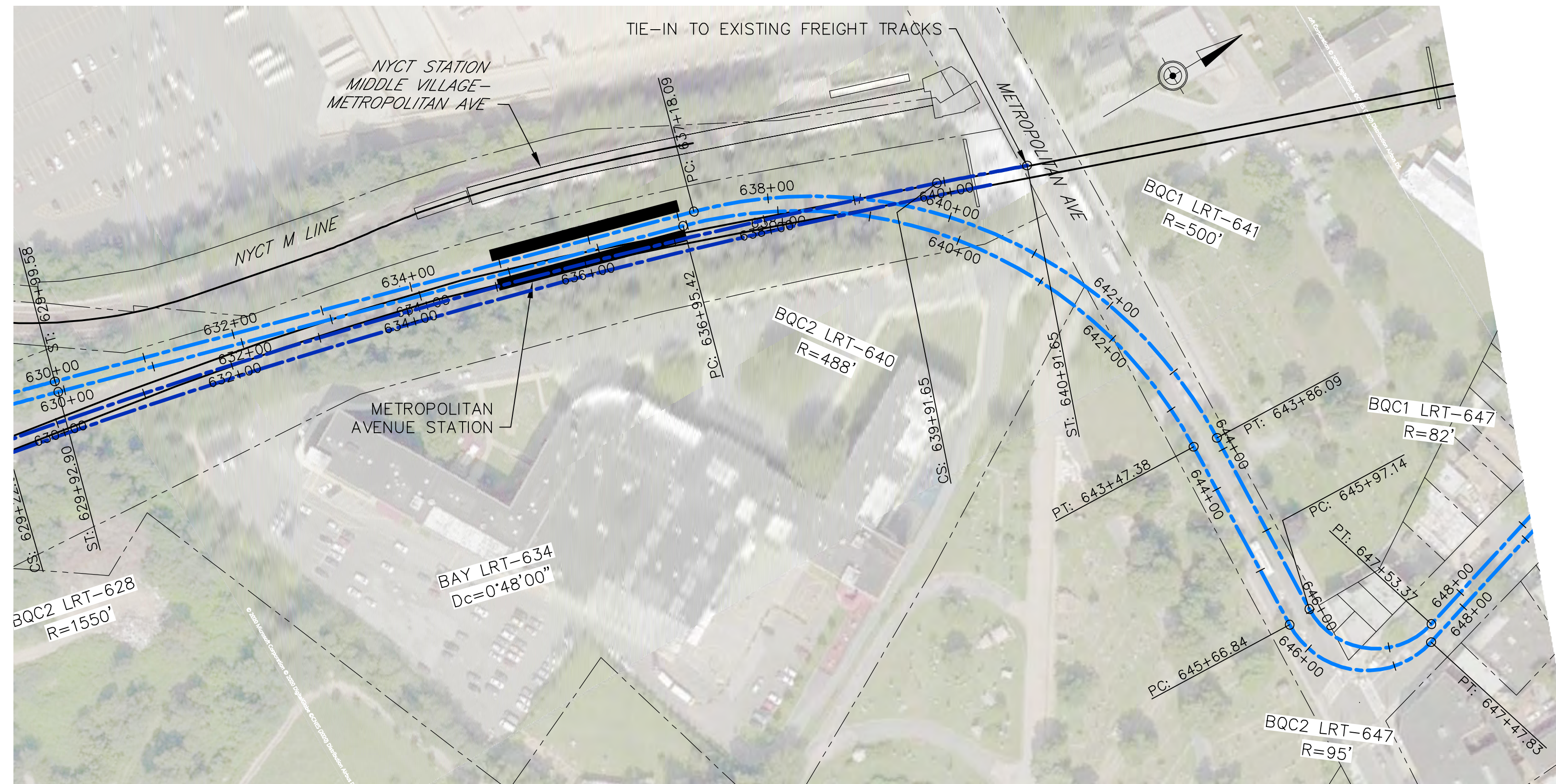
REV. NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY:
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	CHECKED BY:
					WVN
					DATE:
					12-01-2020



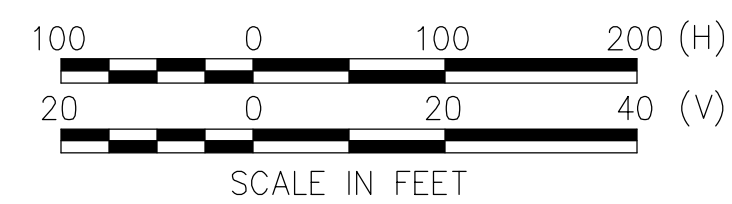
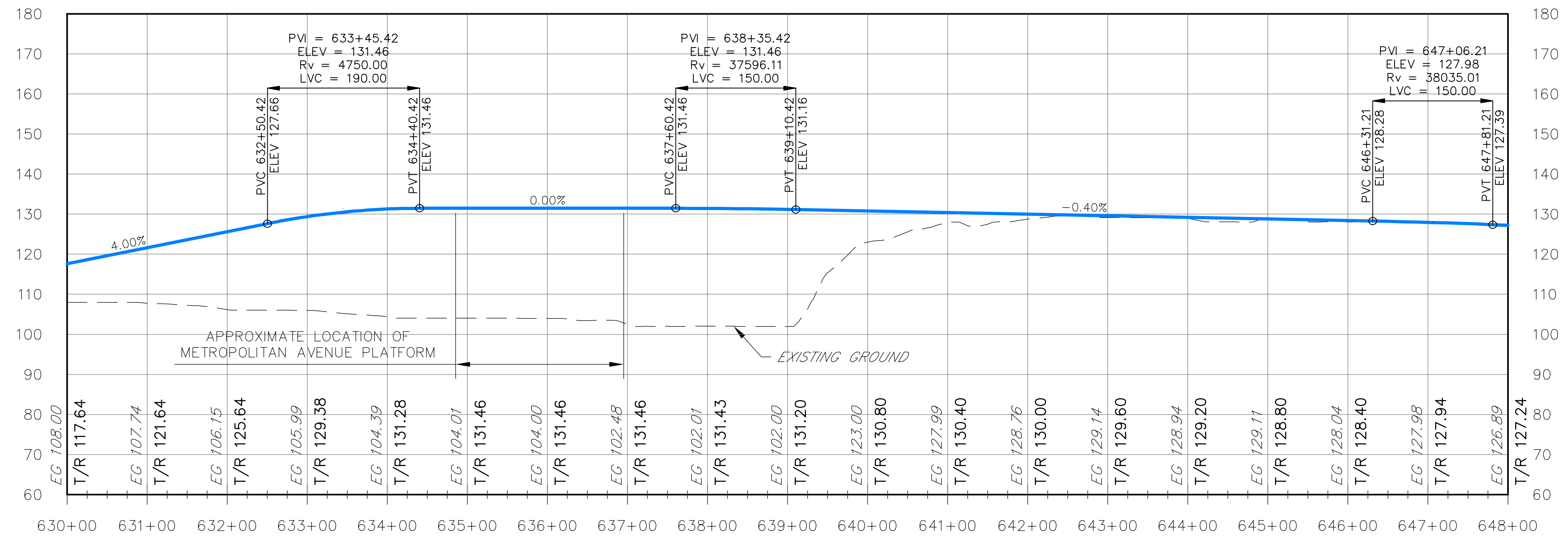
**MTA BAY RIDGE CONNECTOR
LRT2**

TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
21 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-641	500		10	0	0.00	0.79
BQC1 LRT-647	82		5	0	0.00	1.21
BQC2 LRT-640	488		10	0	0.00	0.81
BQC2 LRT-647	95		5	0	0.00	1.04
BAY LRT-634		0° 48' 00"	45	100	1.00	0.13



REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

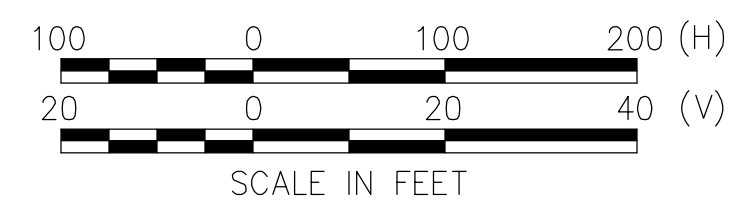
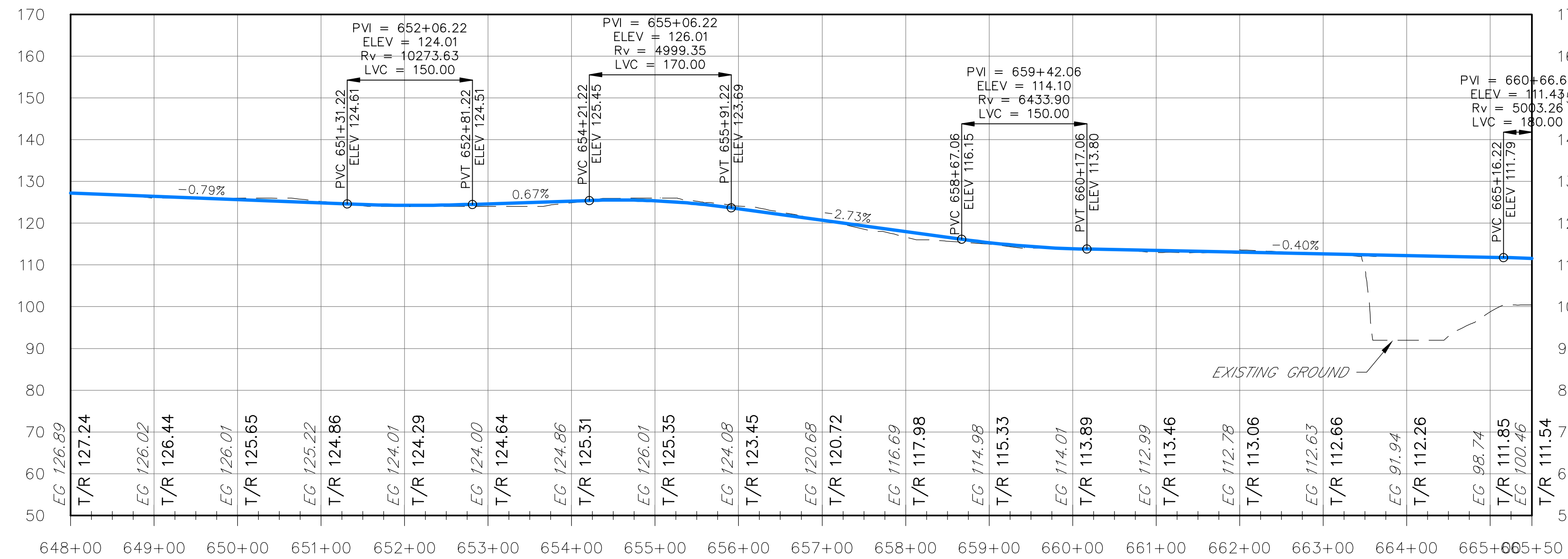
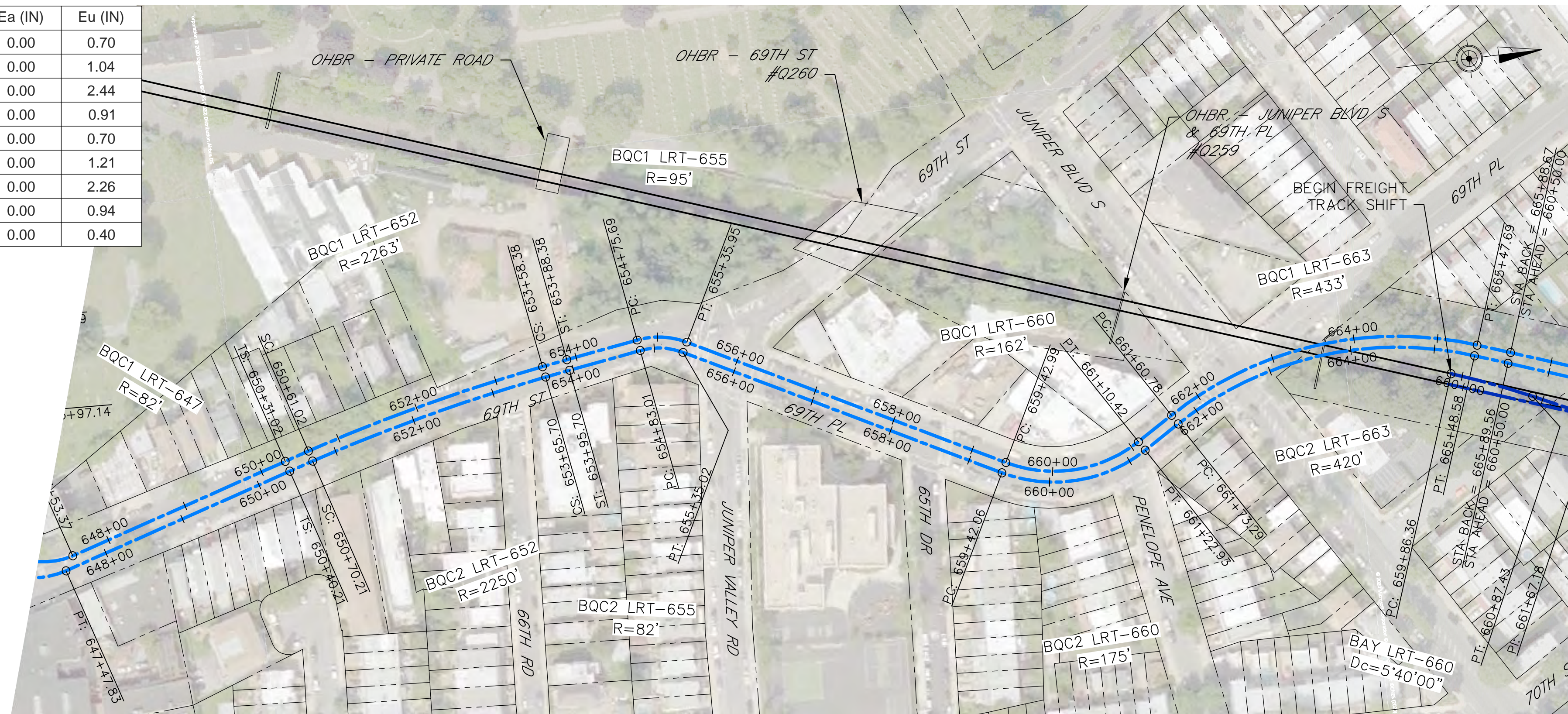
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020

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1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
22 OF 29

CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-652	2263		20	30	0.00	0.70
BQC1 LRT-655	95		5	0	0.00	1.04
BQC1 LRT-660	162		10	0	0.00	2.44
BQC1 LRT-663	433		10	0	0.00	0.91
BQC2 LRT-652	2250		20	30	0.00	0.70
BQC2 LRT-655	82		5	0	0.00	1.21
BQC2 LRT-660	175		10	0	0.00	2.26
BQC2 LRT-663	420		10	0	0.00	0.94
BAY LRT-660		5° 40' 00"	10	0	0.00	0.40

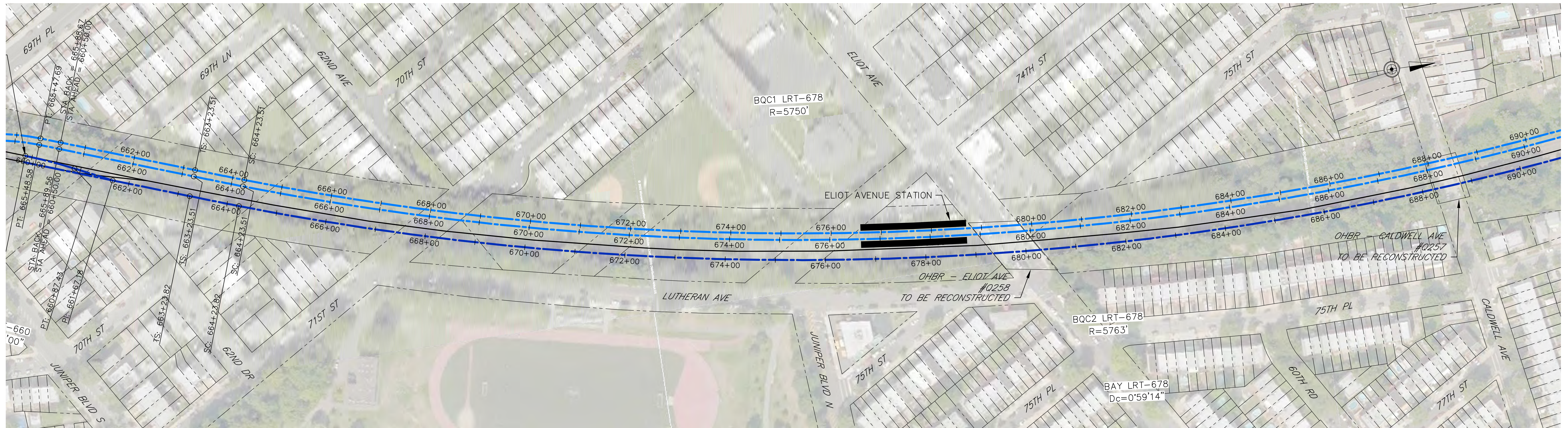


REV. NO.	DATE	BY	APP BY	DESCRIPTION	DESIGNED BY:
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	DRAWN BY:
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	JJM
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS	CHECKED BY:
					WVN
					DATE:
					12-01-2020

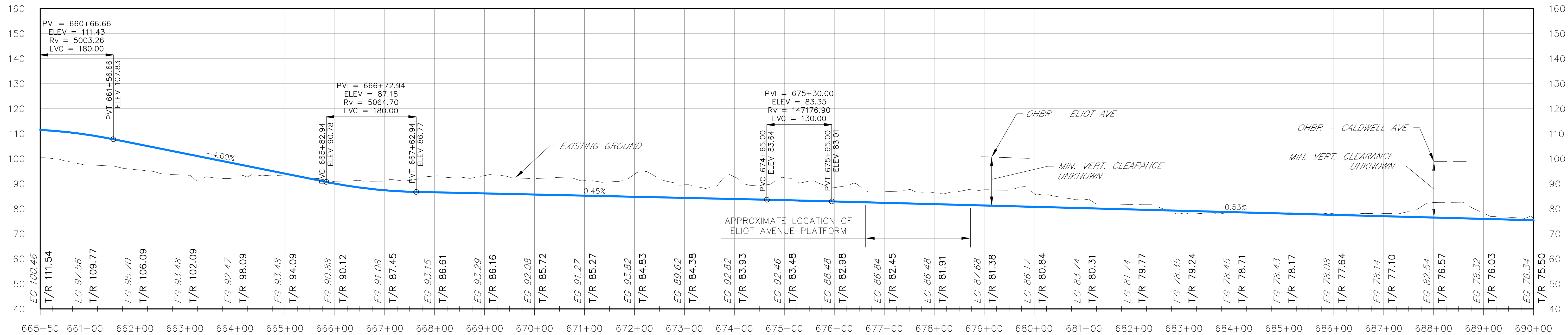


MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H) 1" = 20' (V)
SHEET NO: 23 OF 29



CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-678	5750		35	100	0.00	0.84
BQC2 LRT-678	5763		35	100	0.00	0.84
BAY LRT-678		0° 59' 14"	45	100	1.00	0.40



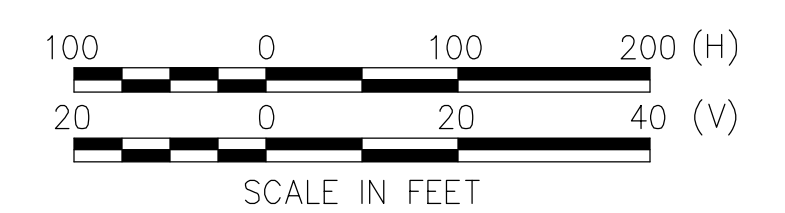
REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

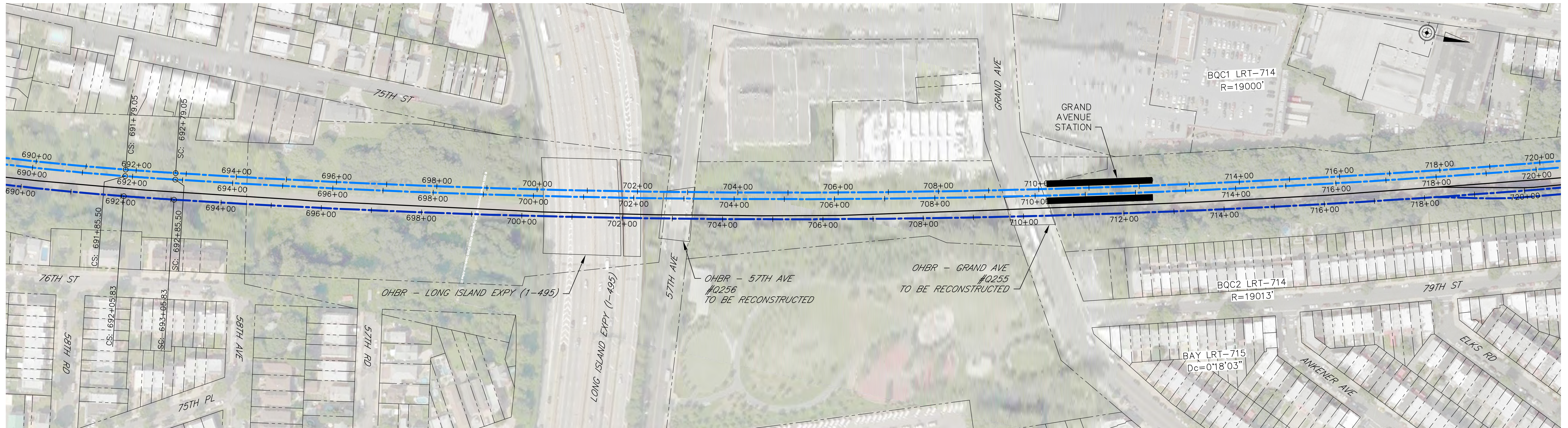
DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020



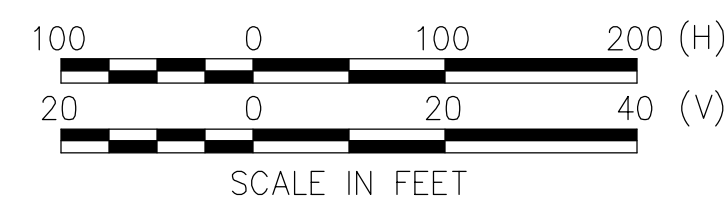
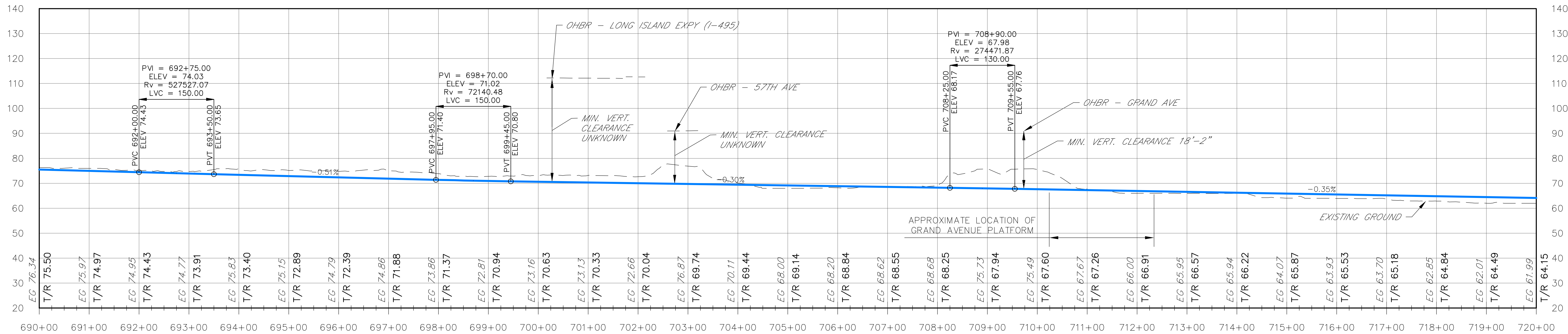
MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
24 OF 29





CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-714	19000		35	100	0.00	0.26
BQC2 LRT-714	19013		35	100	0.00	0.26
BAY LRT-715		0° 18' 03"	45	100	1.00	-0.57



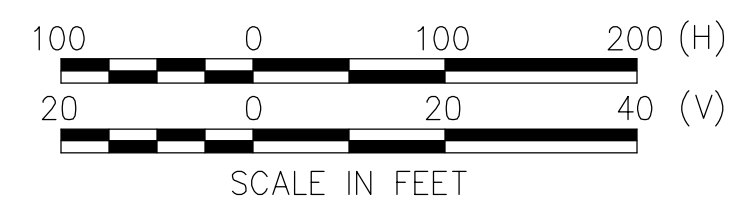
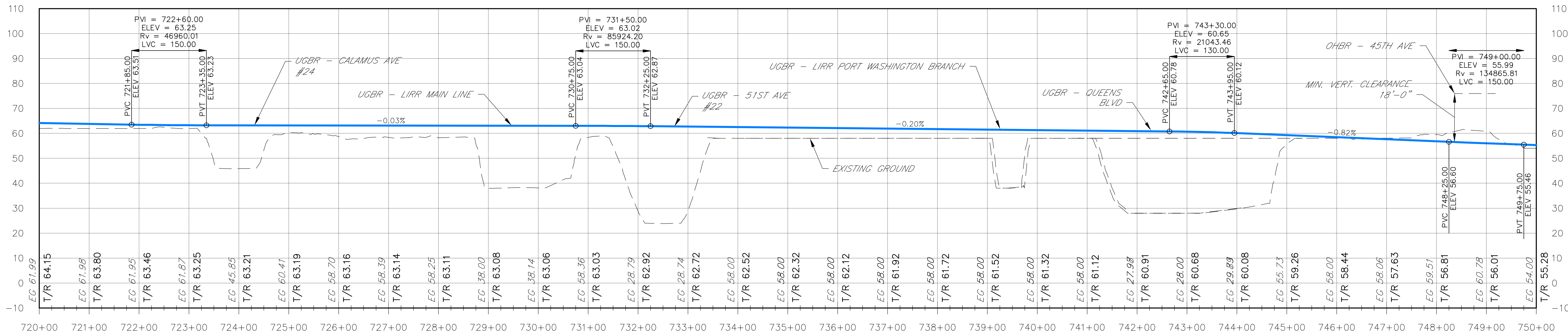
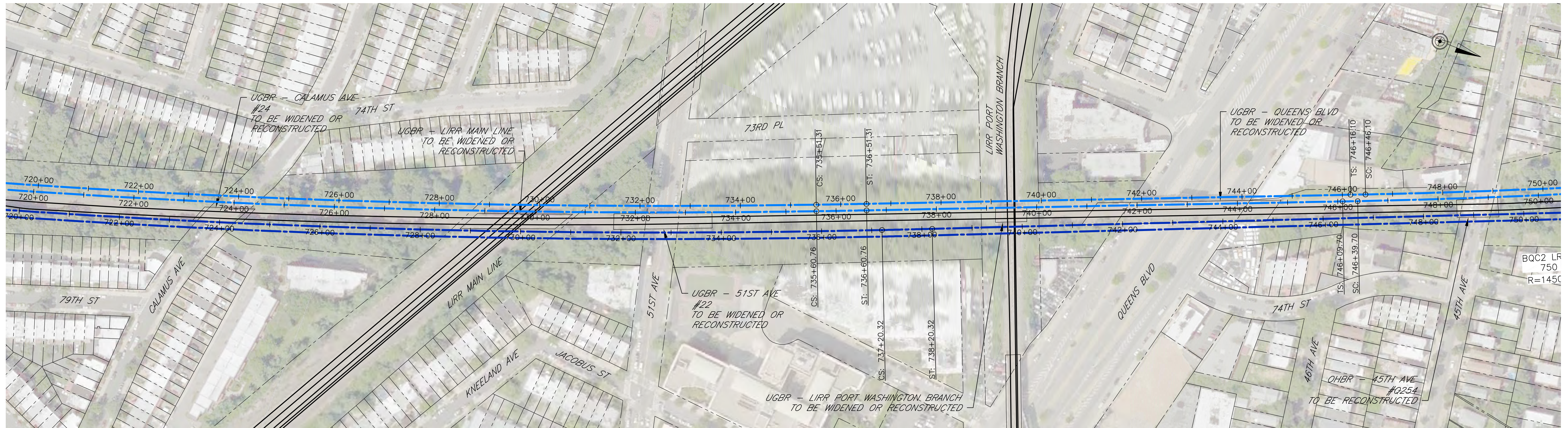
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02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-01-2020

AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
LRT2
TRACK PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
25 OF 29



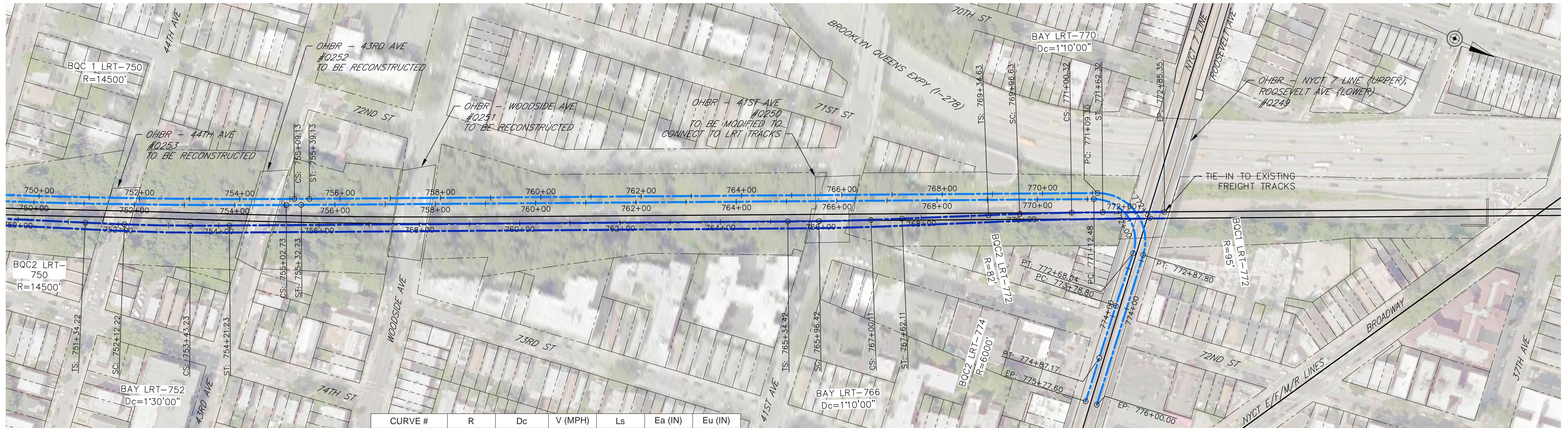
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01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY: JJM
 DRAWN BY: JJM
 CHECKED BY: WVN
 DATE: 12-01-2020

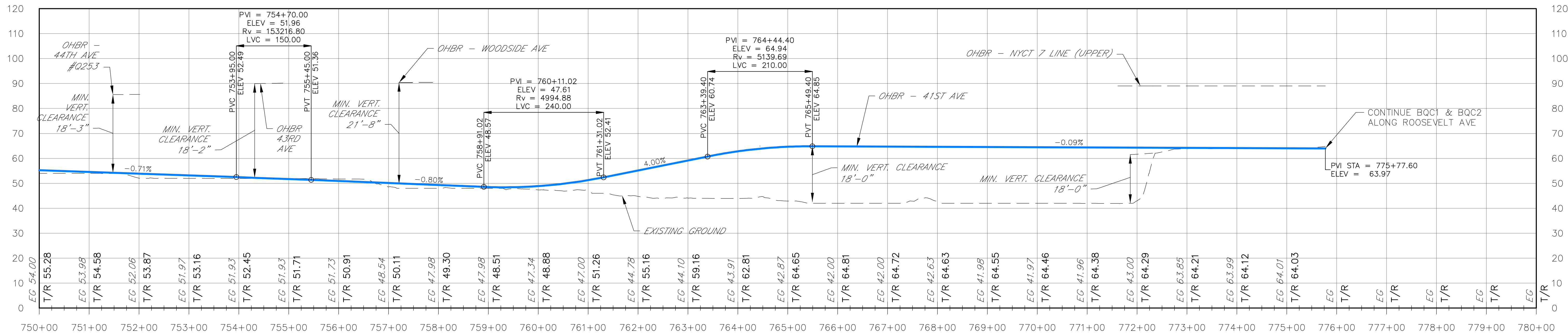


MTA BAY RIDGE CONNECTOR
 LRT2
 TRACK PLAN AND PROFILE

PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO: 26 OF 29

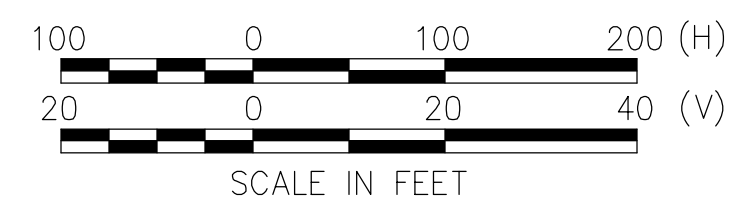


CURVE #	R	Dc	V (MPH)	Ls	Ea (IN)	Eu (IN)
BQC1 LRT-750	14500		35	30	0.00	0.33
BQC1 LRT-772	95		5	0	0.00	1.04
BQC2 LRT-750	14500		35	30	0.00	0.33
BQC2 LRT-772	82		5	0	0.00	1.21
BQC2 LRT-774	6000		35	0	0.00	0.81
BAY LRT-752		1° 30' 00"	45	78	1.25	0.88
BAY LRT-766		1° 10' 00"	45	62	1.00	0.65
BAY LRT-770		1° 10' 00"	45	62	1.00	0.65



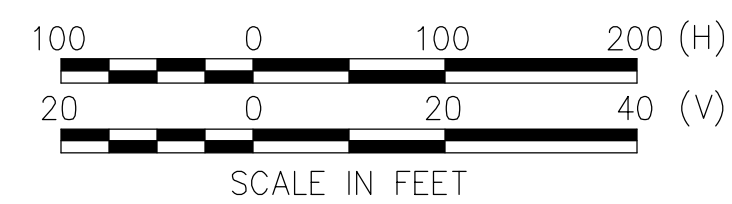
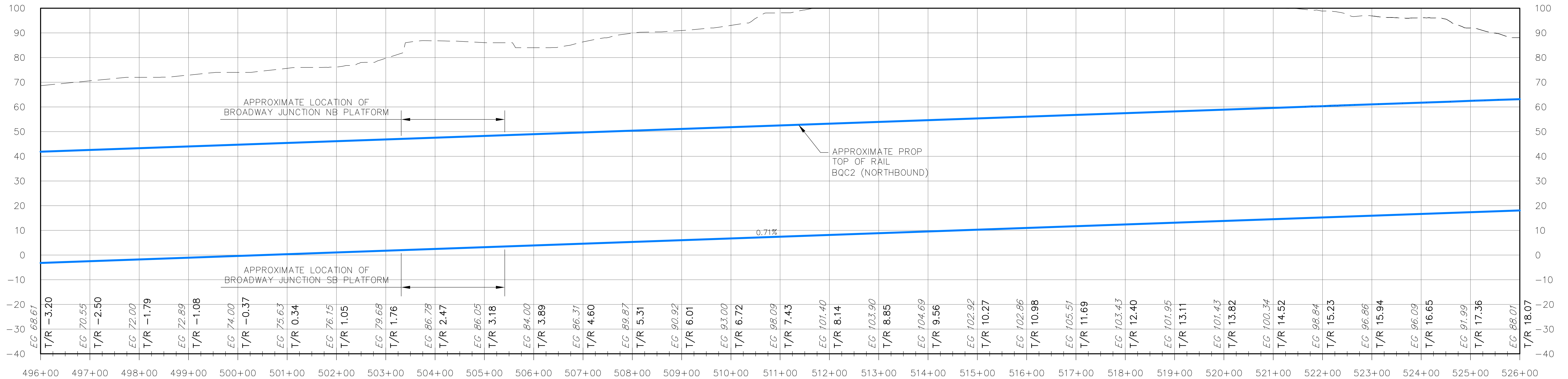
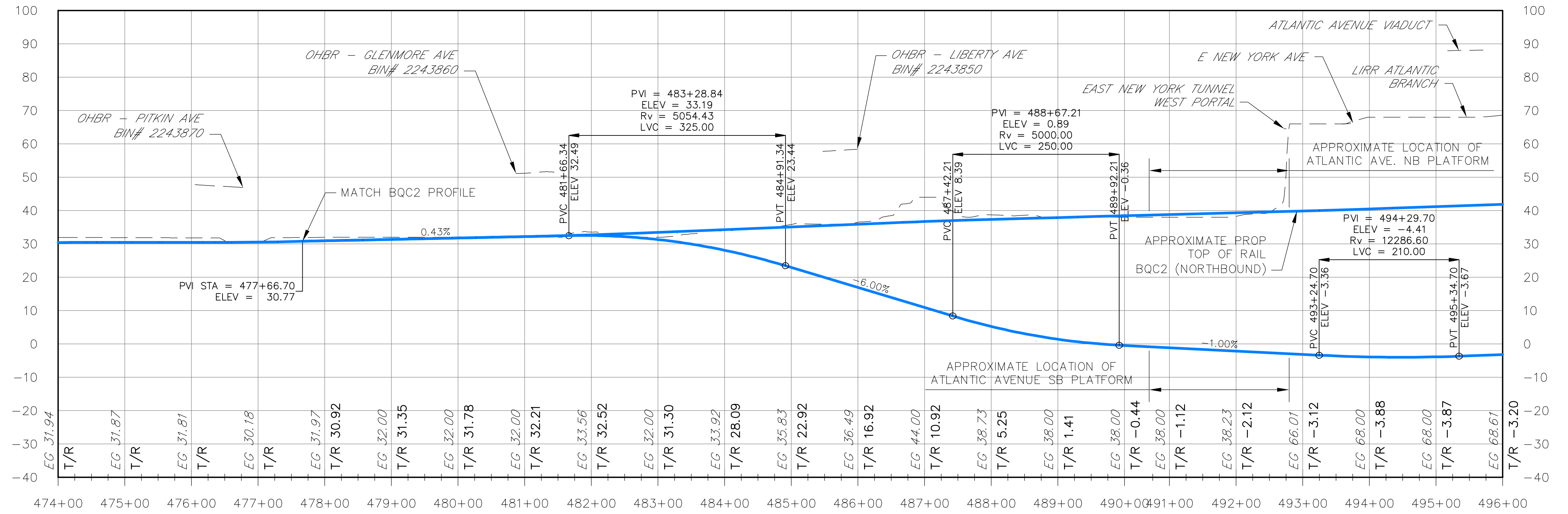
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01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
05	12-02-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
06	02-25-21	JJM	WVN	ROOSEVELT AVENUE ALTERNATIVE

DESIGNED BY: JJM
 DRAWN BY: JJM
 CHECKED BY: WVN
 DATE: 02-25-2021



MTA BAY RIDGE CONNECTOR
 LRT2
 TRACK PLAN AND PROFILE

PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO:
 27 OF 29



REV. NO.	DATE	BY	APP BY	DESCRIPTION
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02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM

DRAWN BY:
JJM

CHECKED BY:
WVN

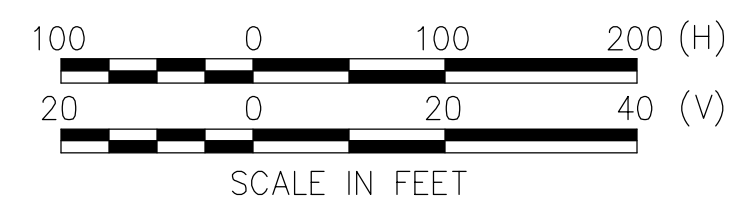
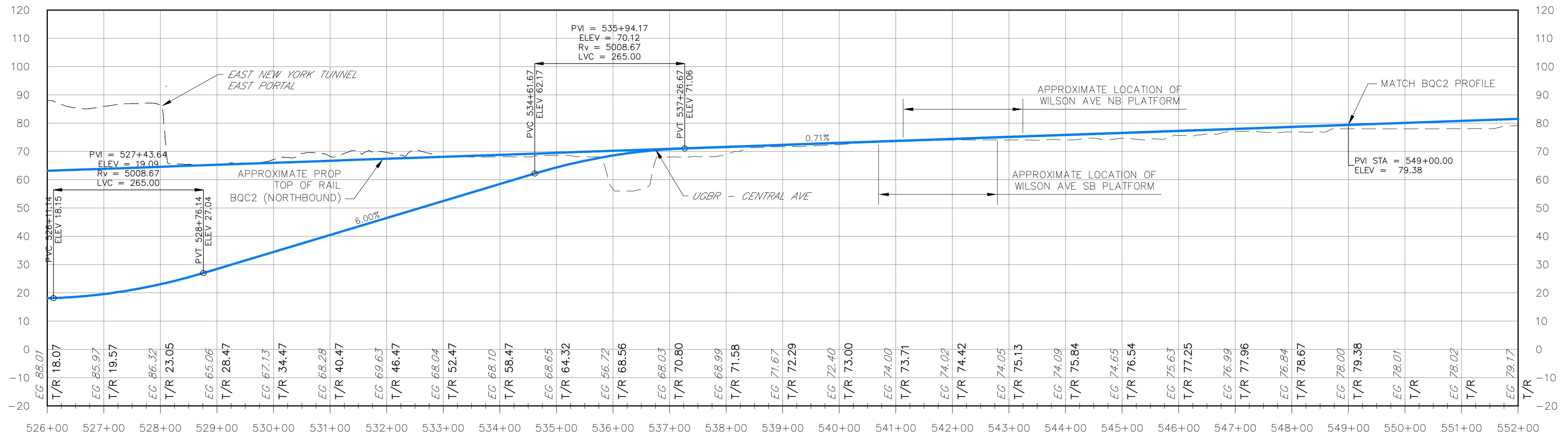
DATE:
12-01-2020



**MTA BAY RIDGE CONNECTOR
LRT2**

BQC1 TRACK PROFILE - 1 OF 2

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
28 OF 29



REV.NO.	DATE	BY	APP BY	DESCRIPTION
01	09-25-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	09-30-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	12-01-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM

DRAWN BY:
JJM

CHECKED BY:
WVN

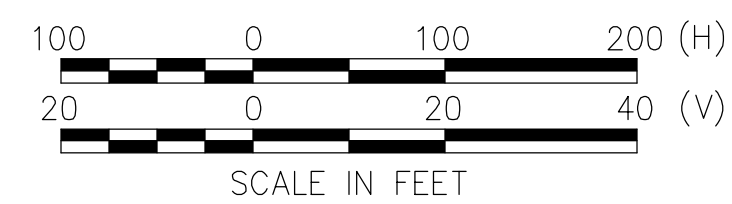
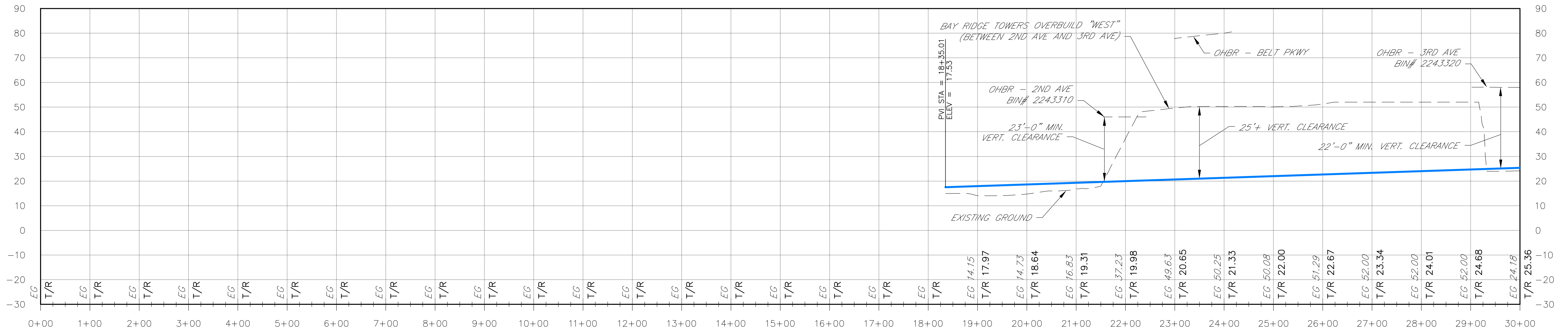
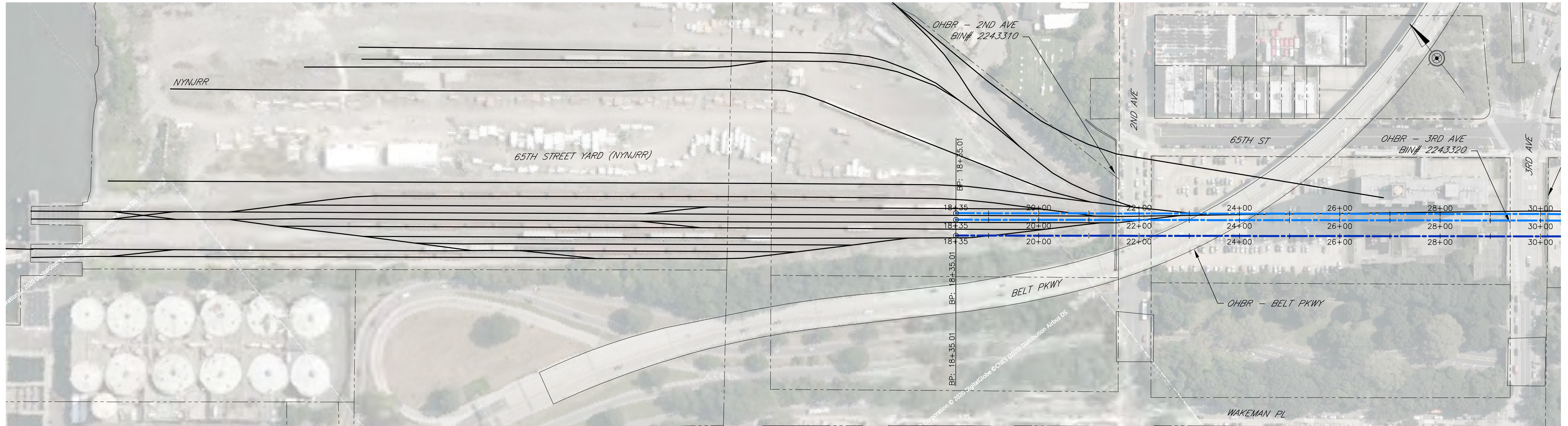
DATE:
12-01-2020



MTA BAY RIDGE CONNECTOR
LRT2

BQC1 TRACK PROFILE - 2 OF 2

PROJECT NO:	
DRAWING NO:	
SCALE:	1" = 100' (H) 1" = 20' (V)
SHEET NO:	29 OF 29



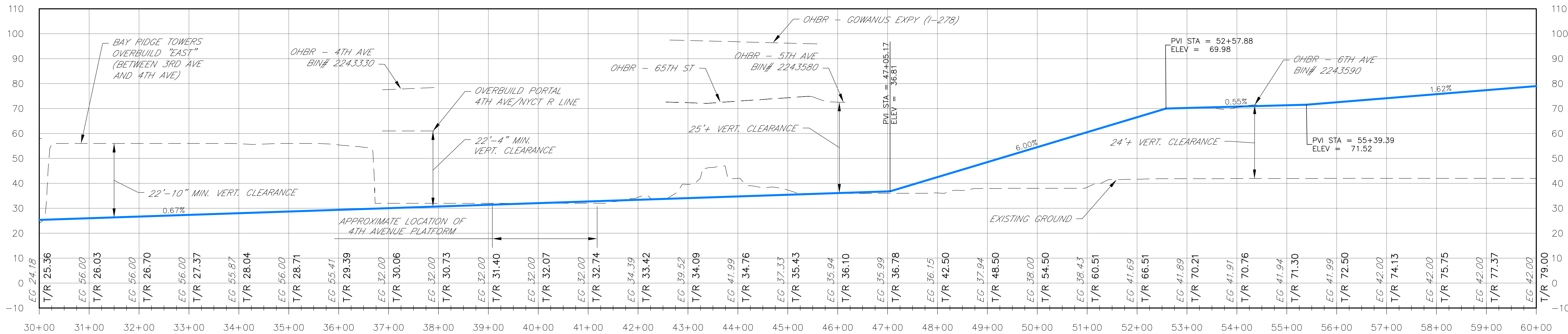
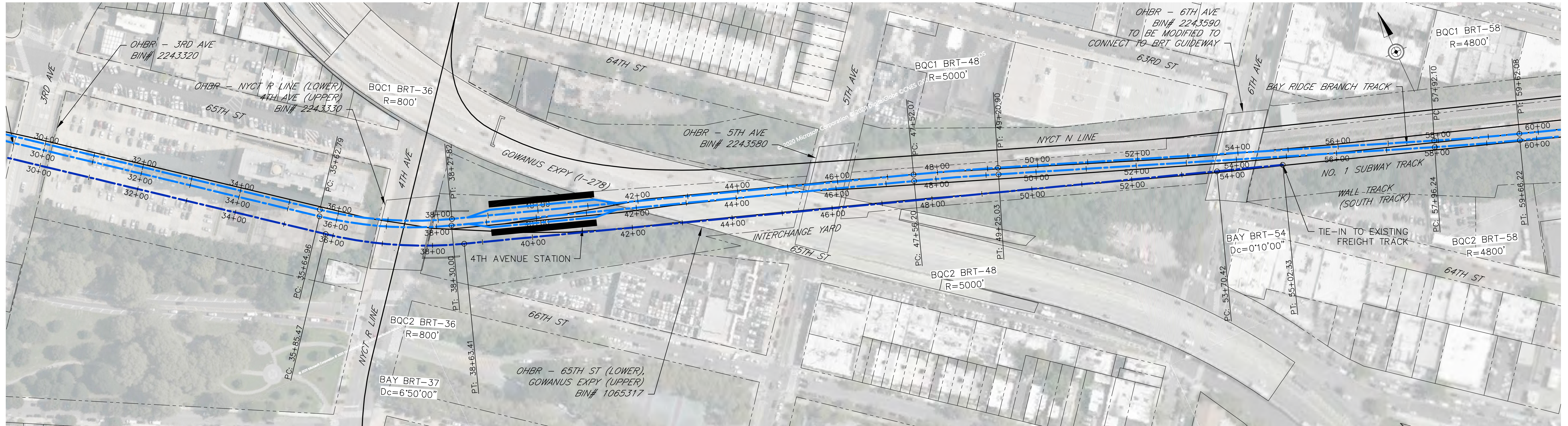
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020

AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

**MTA BAY RIDGE CONNECTOR
BRT2**
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
01 OF 29



REV. NO.	DATE	BY	APP BY	DESCRIPTION
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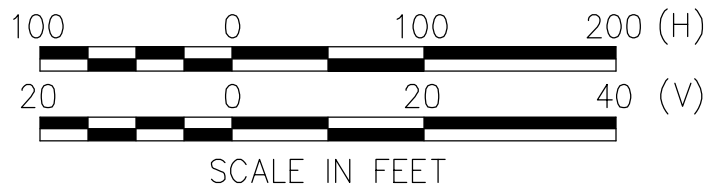
DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020

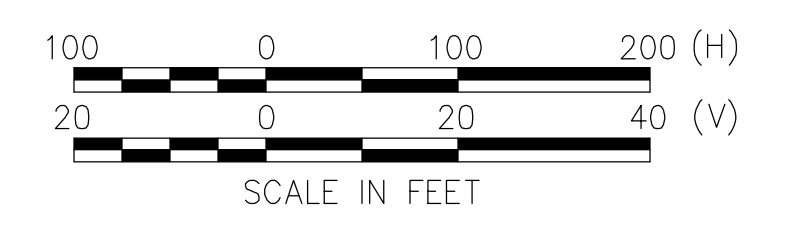
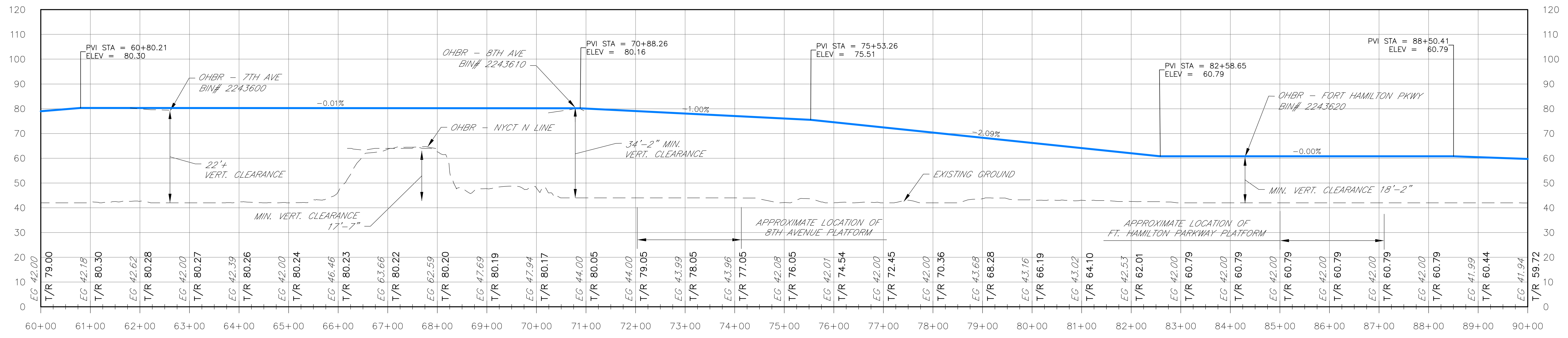
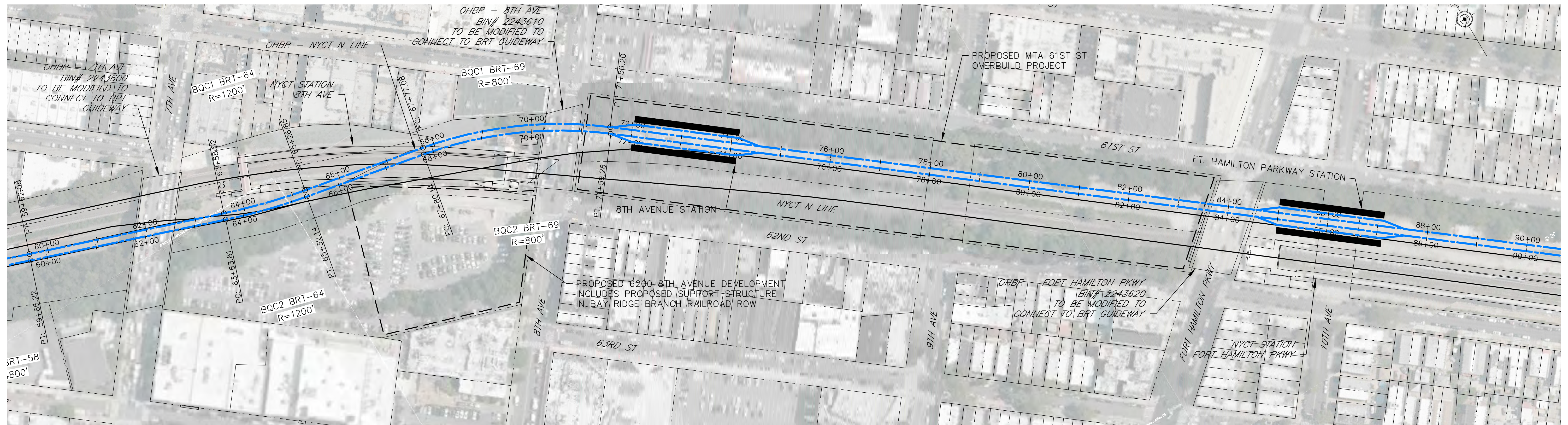


1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
02 OF 29





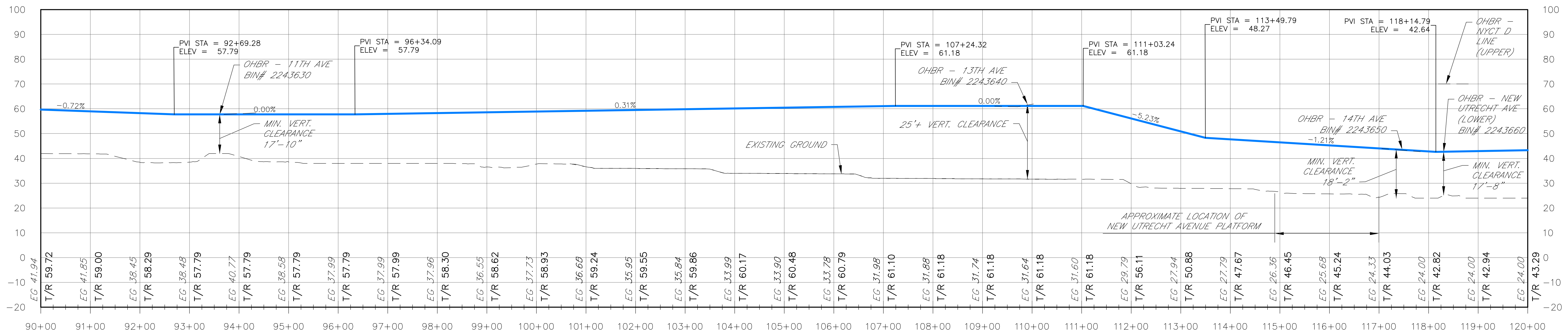
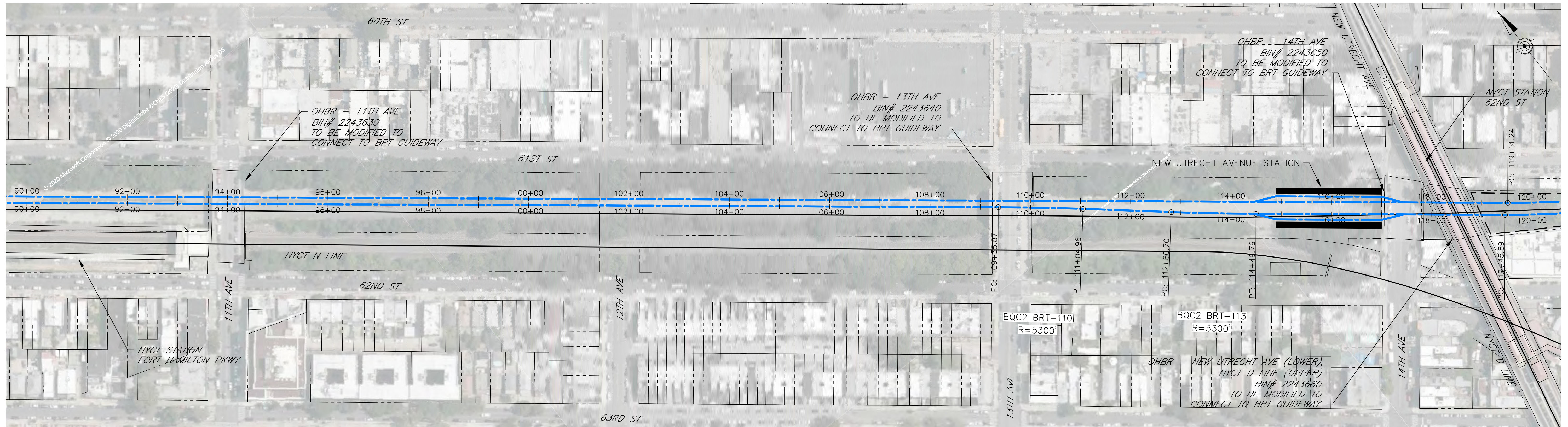
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
03 OF 29



REV. NO.	DATE	BY	APP BY	DESCRIPTION
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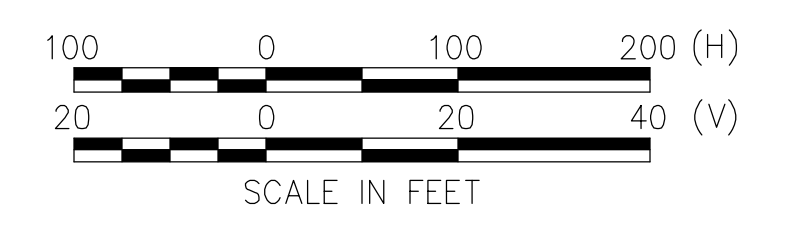
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JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020

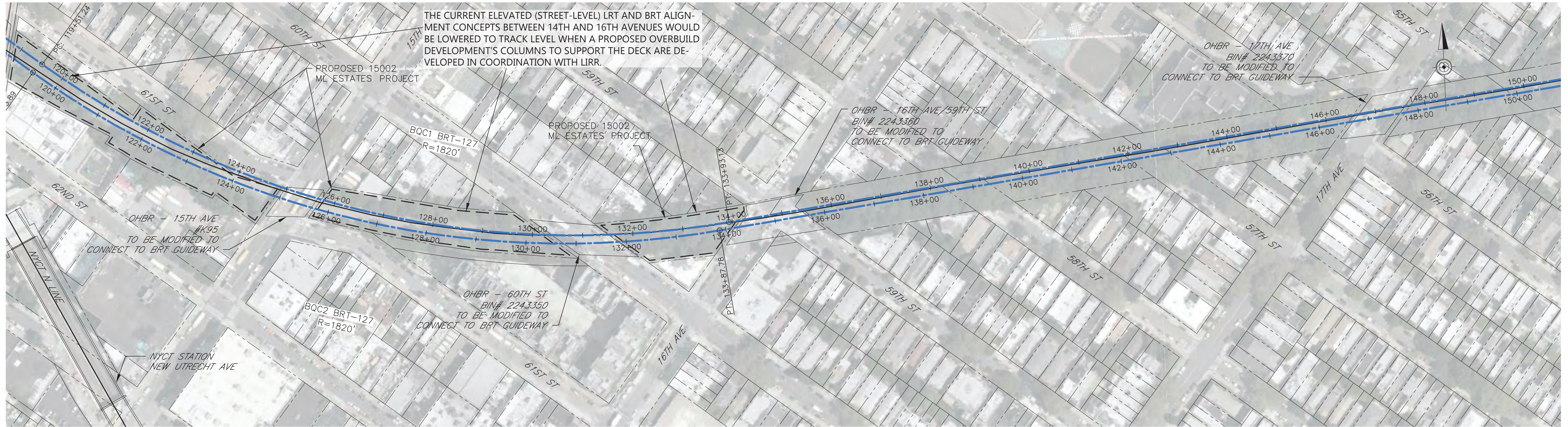


**MTA BAY RIDGE CONNECTOR
BRT2**

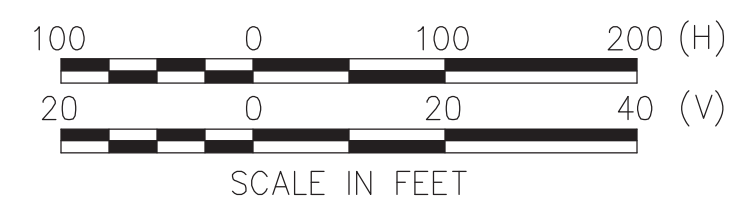
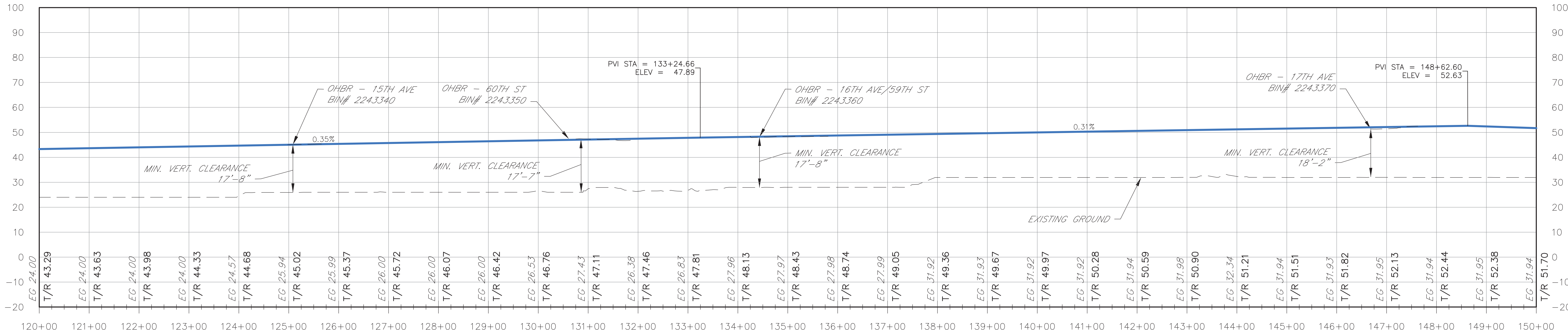
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
04 OF 29





THE CURRENT ELEVATED (STREET-LEVEL) LRT AND BRT ALIGNMENT CONCEPTS BETWEEN 14TH AND 16TH AVENUES WOULD BE LOWERED TO TRACK LEVEL WHEN A PROPOSED OVERBUILD DEVELOPMENT'S COLUMNS TO SUPPORT THE DECK ARE DEVELOPED IN COORDINATION WITH LIRR.



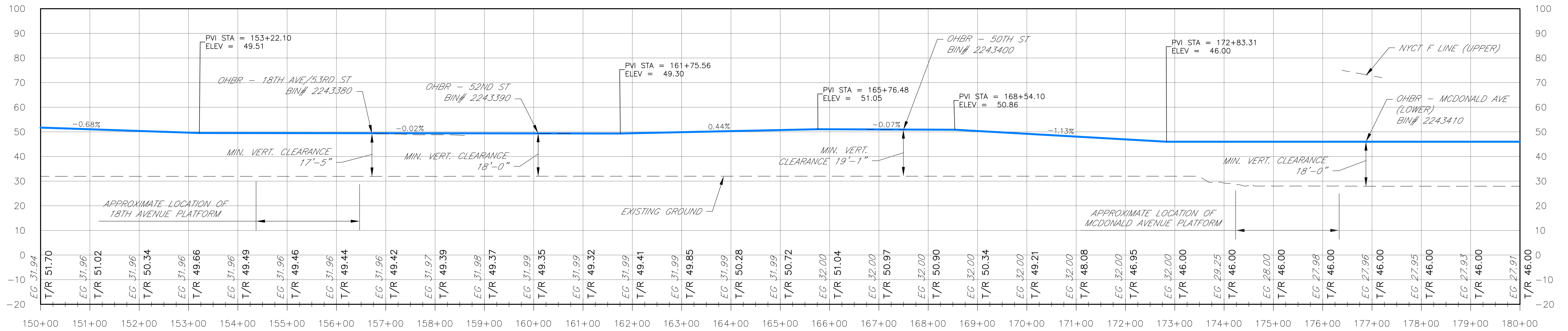
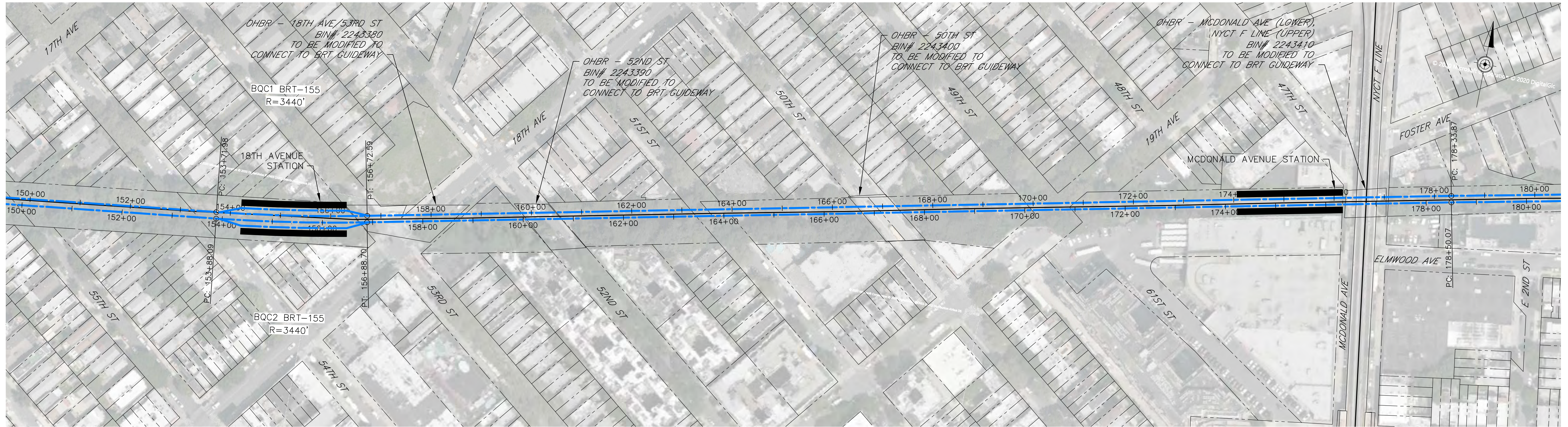
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020

AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
05 OF 29



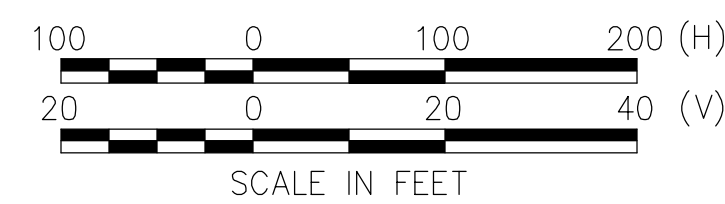
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

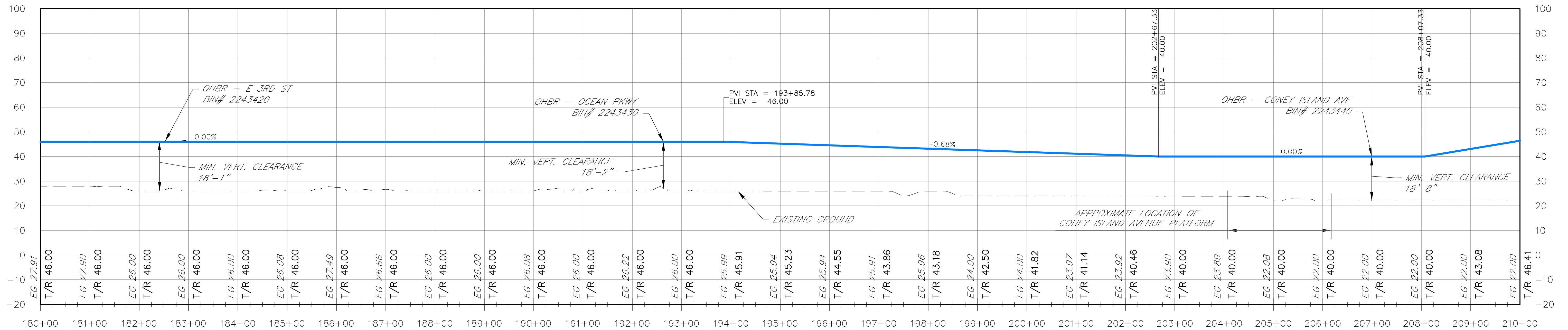
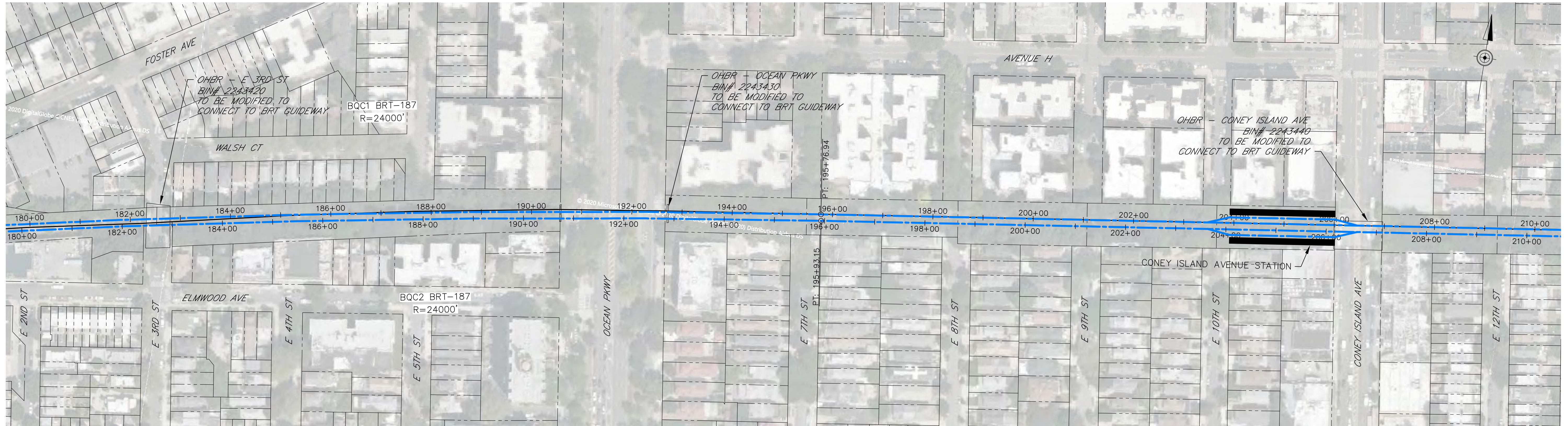
DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020



**MTA BAY RIDGE CONNECTOR
BRT2**
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
06 OF 29





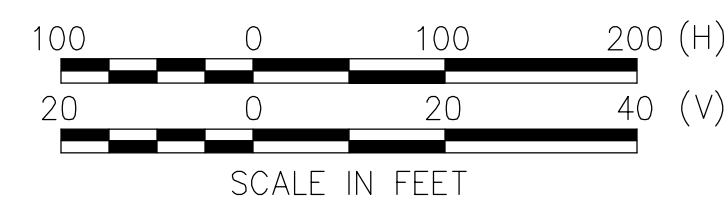
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

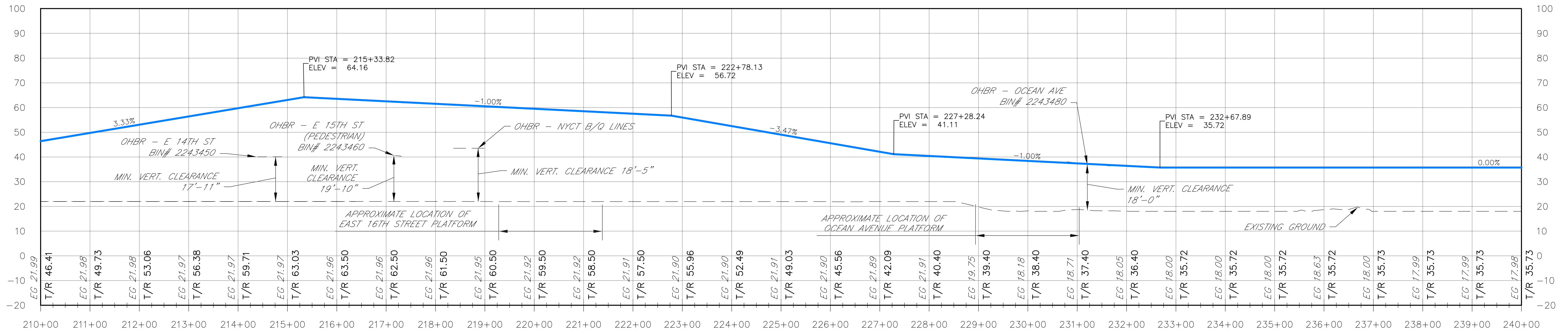
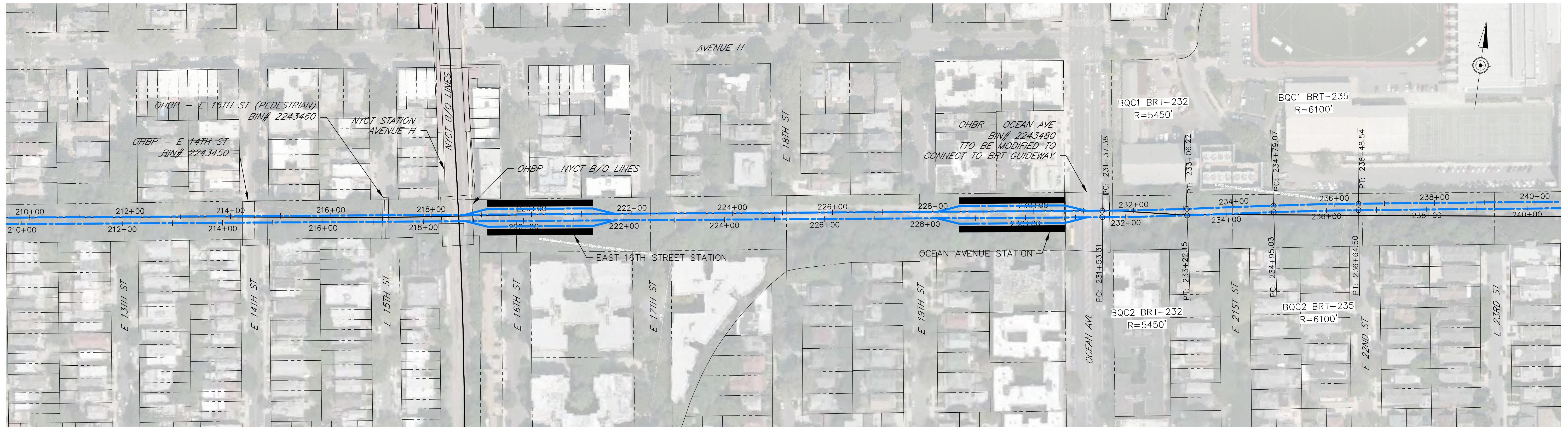
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JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

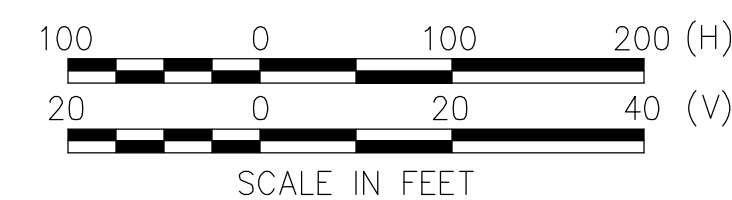
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SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
07 OF 29





REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

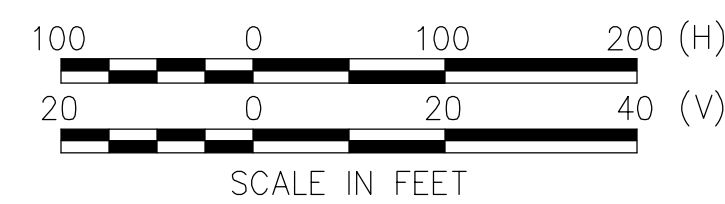
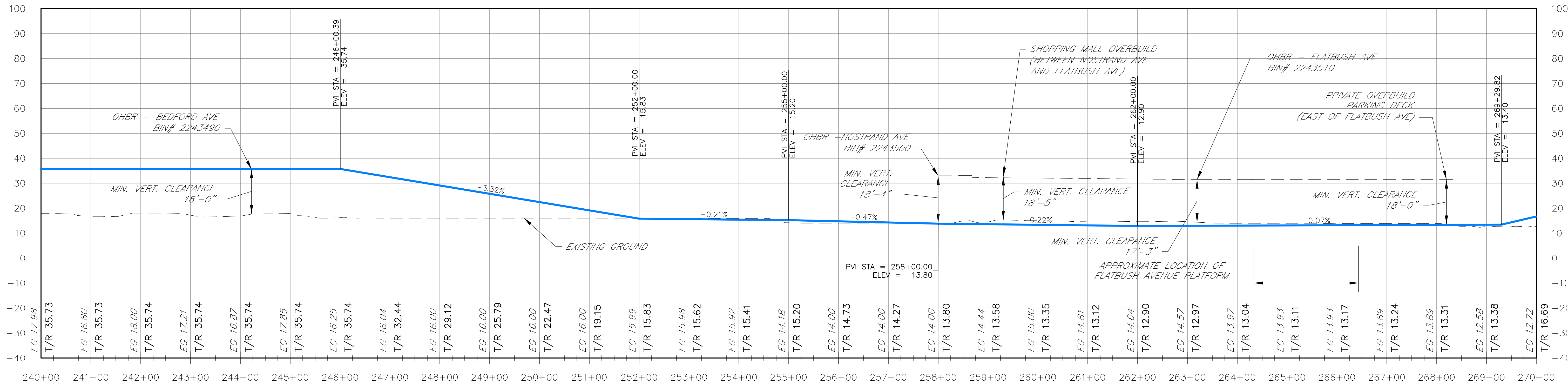
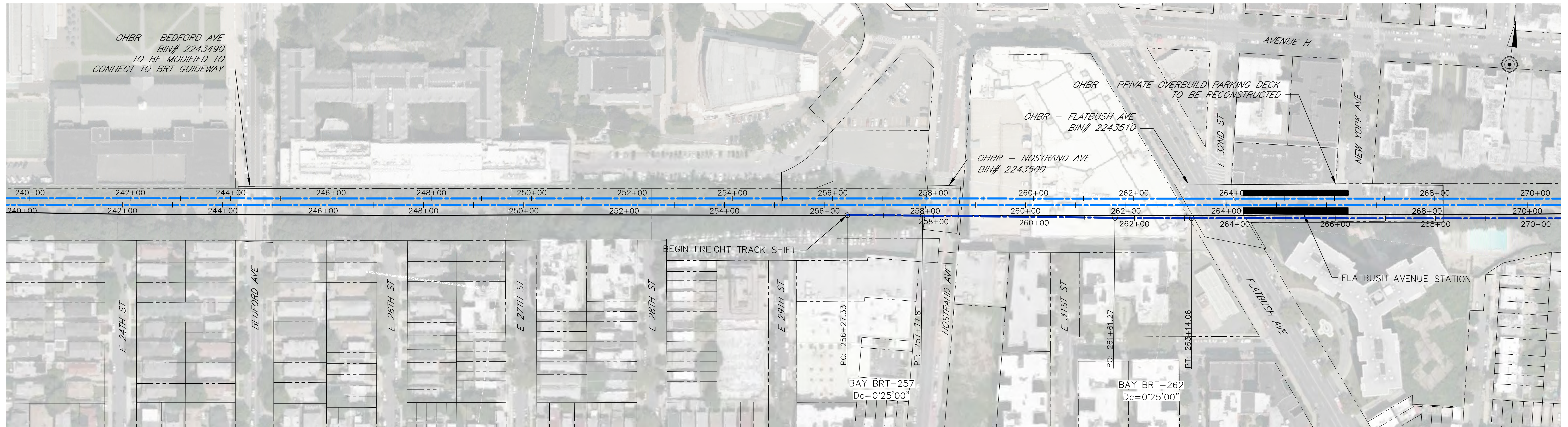
DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020



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1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
08 OF 29



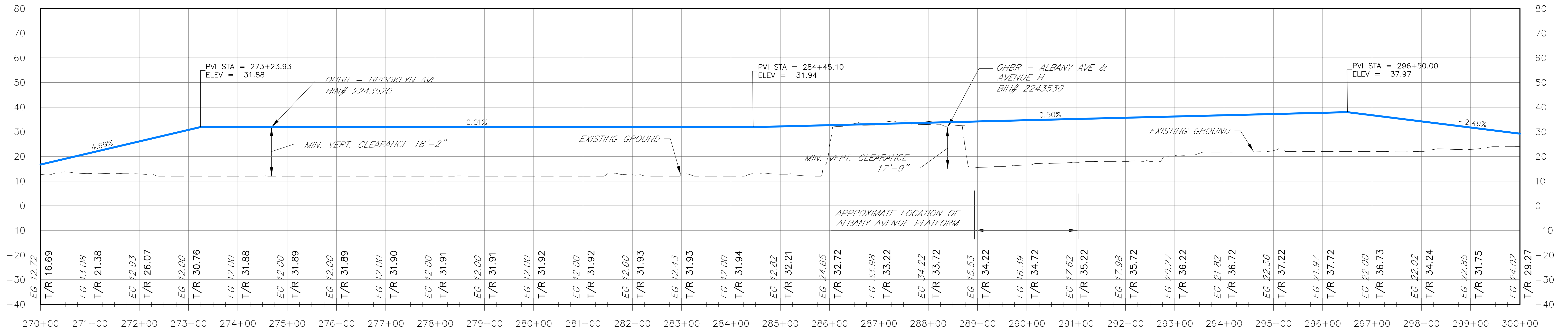
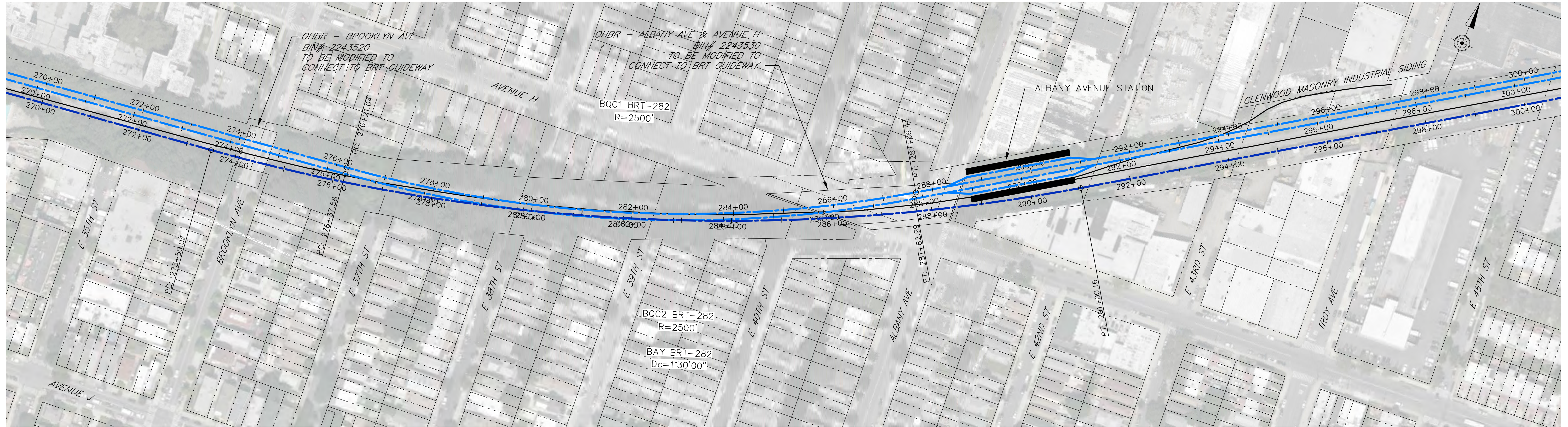
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
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SAT
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WVN
DATE:
10-06-2020



**MTA BAY RIDGE CONNECTOR
BRT2**
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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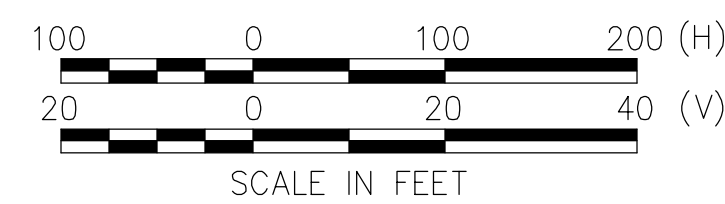
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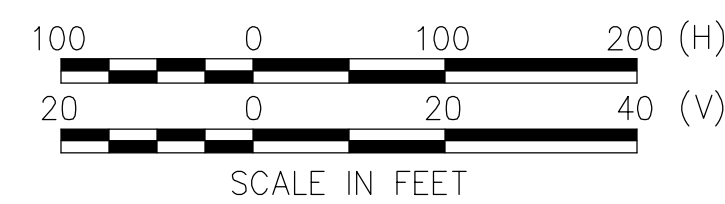
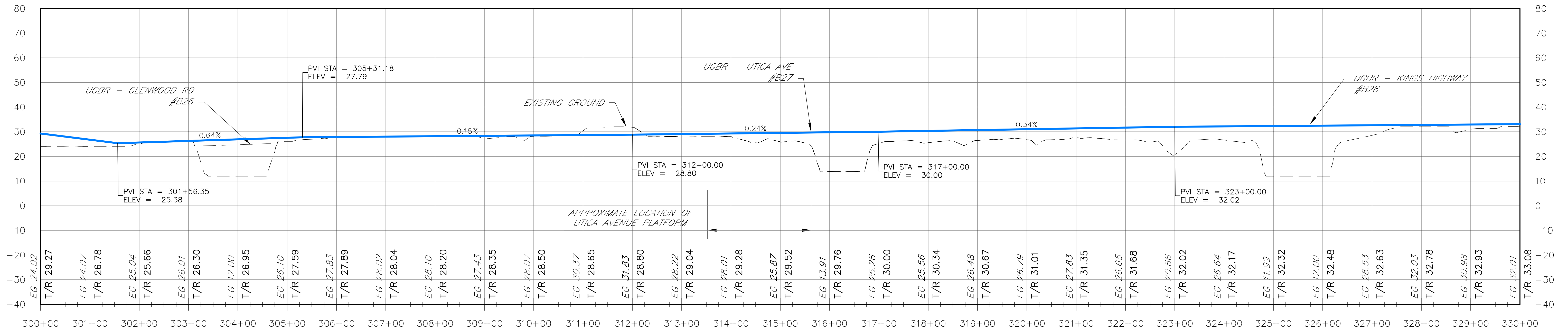
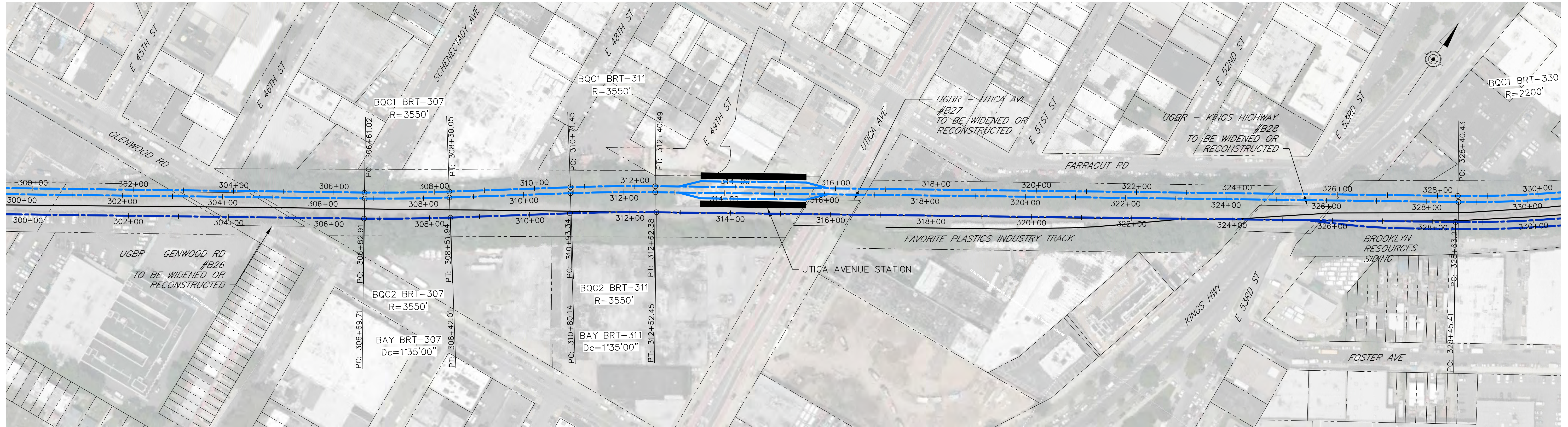
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DRAWN BY:
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CHECKED BY:
WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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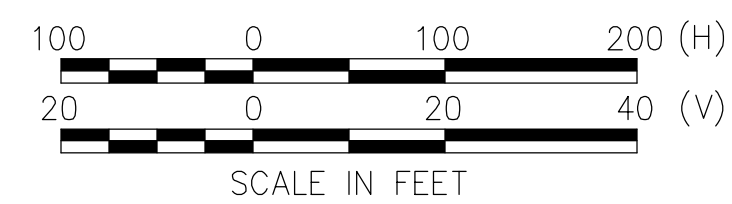
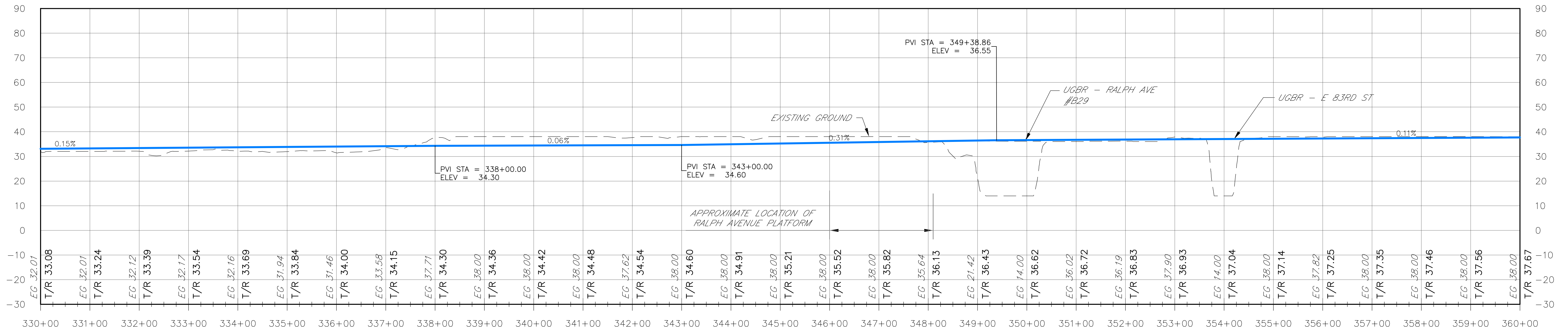
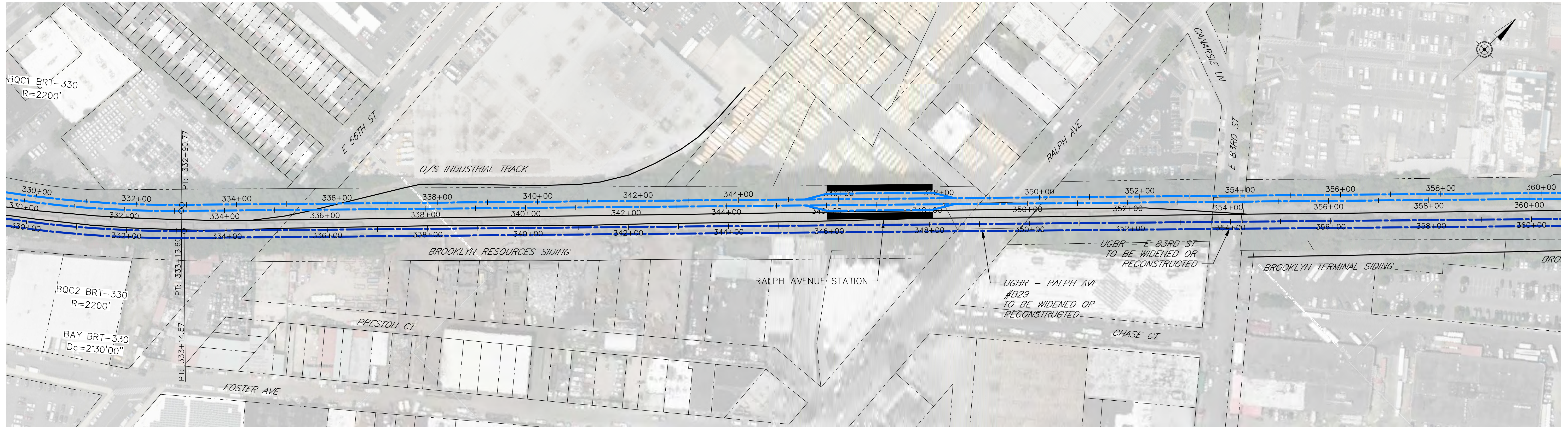
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
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DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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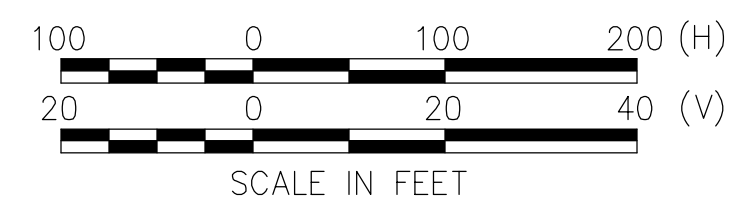
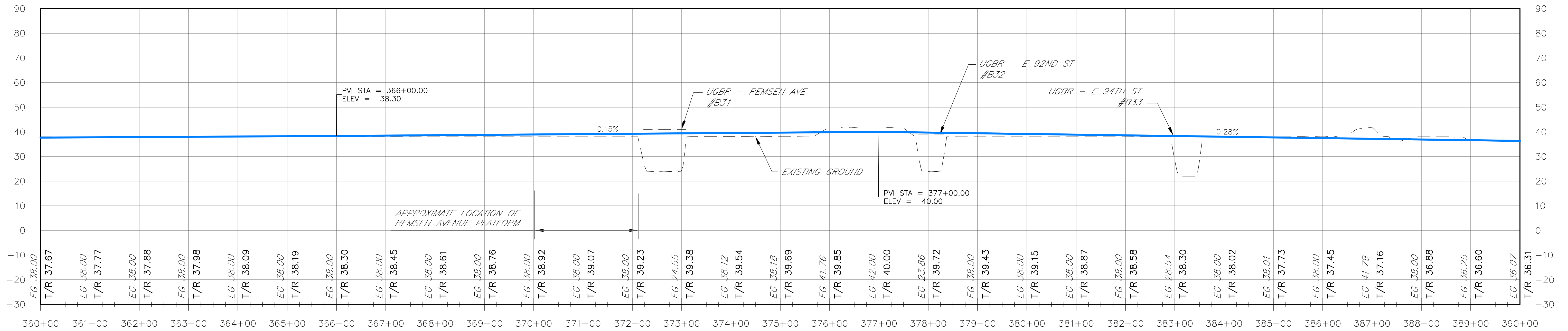
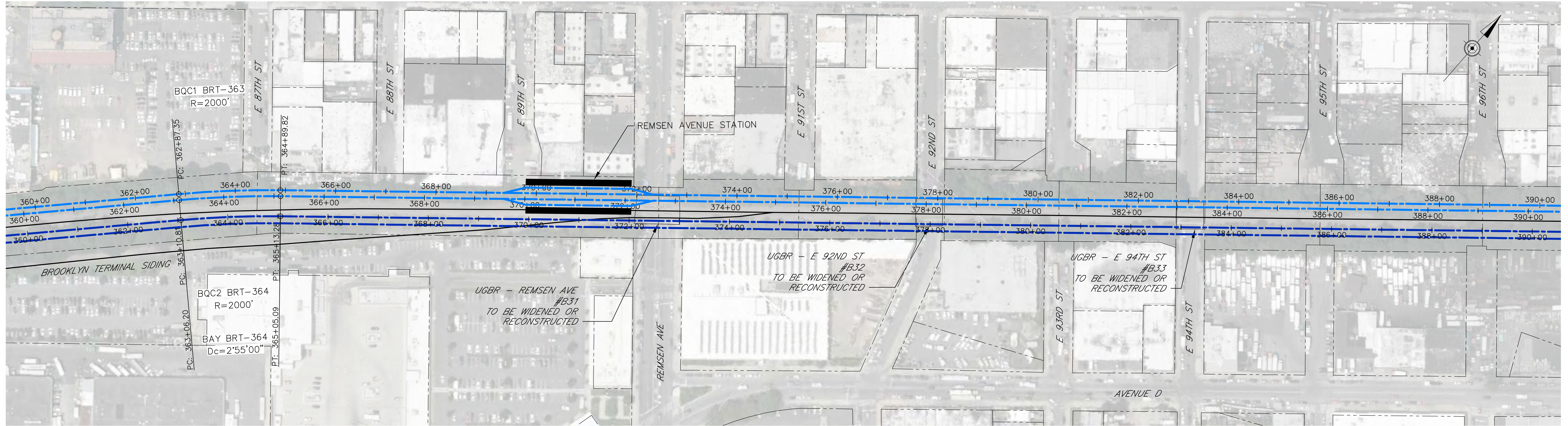
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
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WVN
DATE:
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MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
12 OF 29



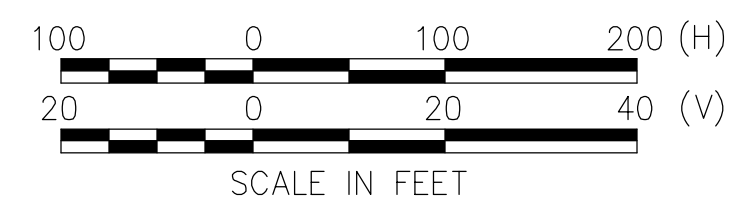
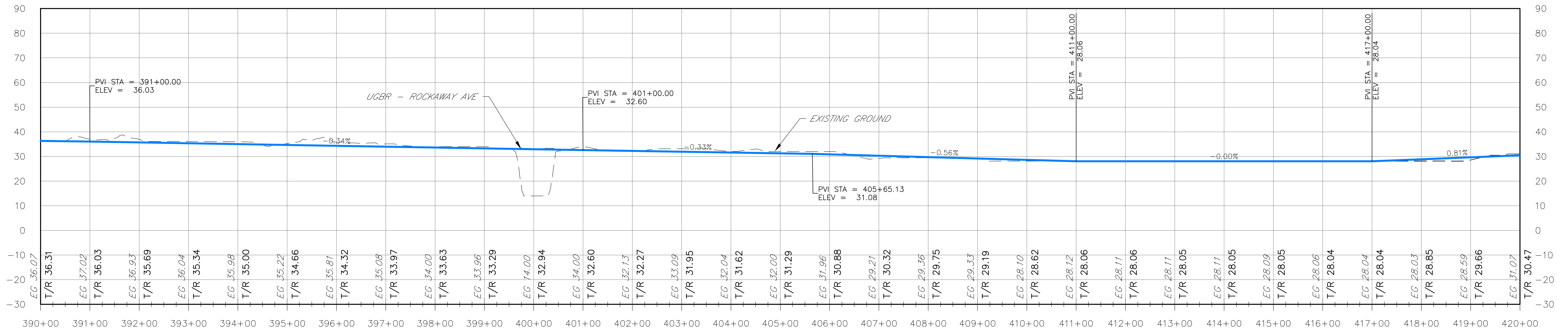
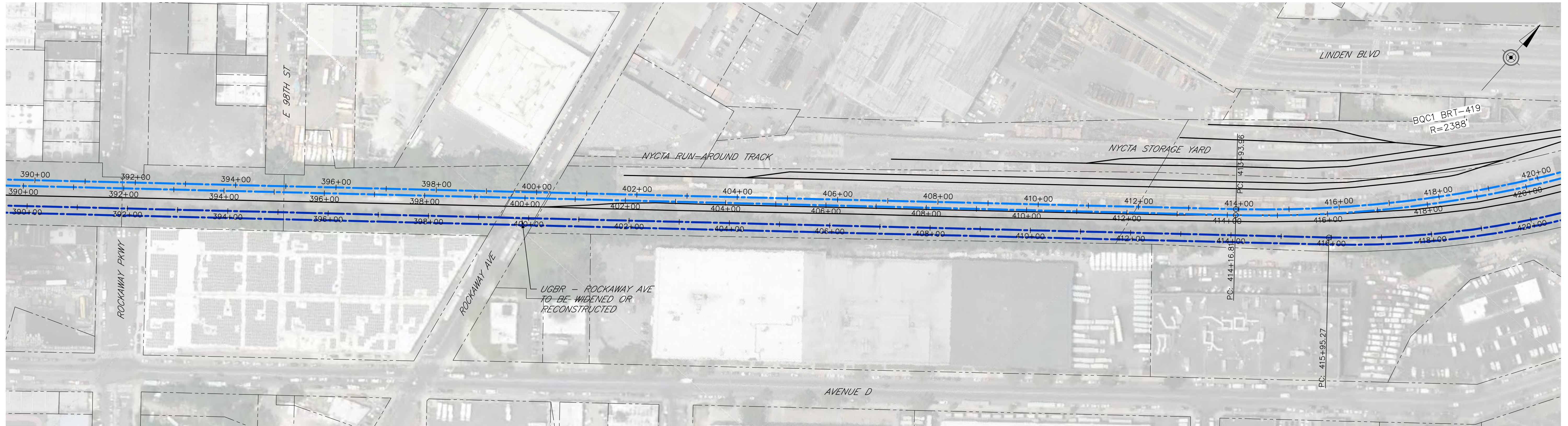
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
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SAT
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WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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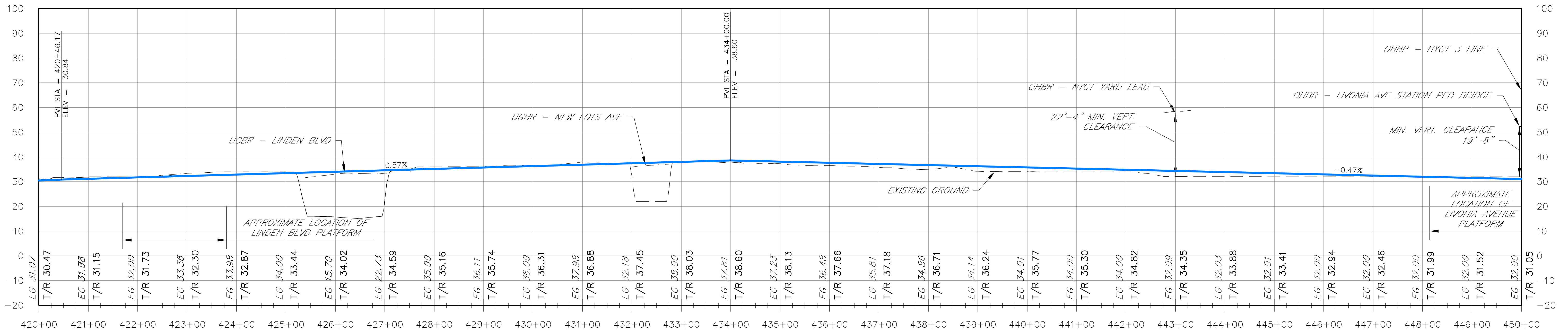
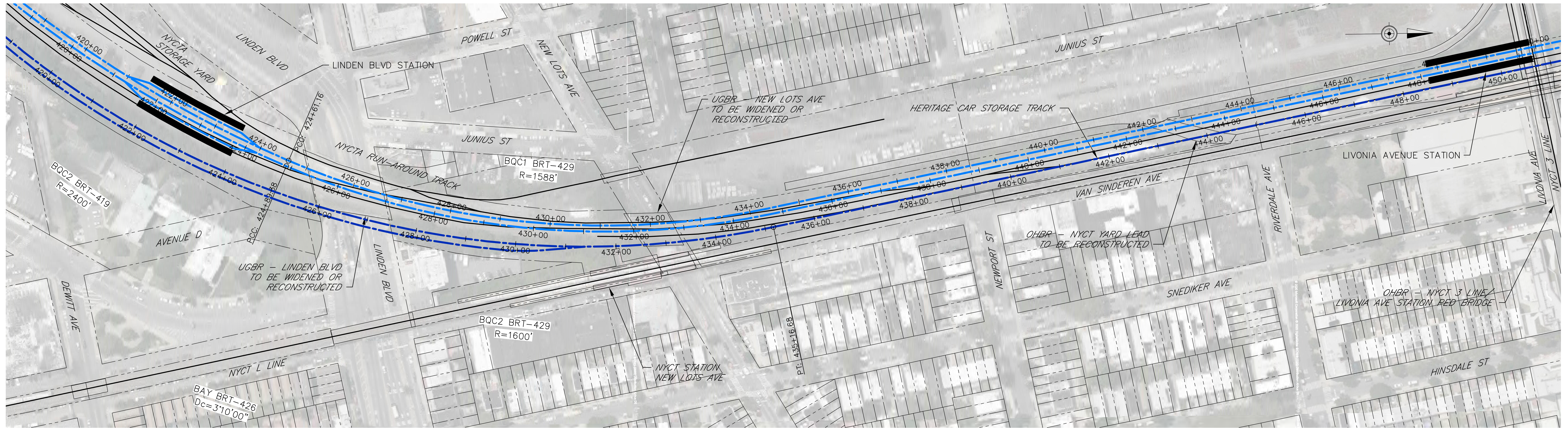
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY: JJM
 DRAWN BY: SAT
 CHECKED BY: WVN
 DATE: 10-06-2020



**MTA BAY RIDGE CONNECTOR
 BRT2**
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 100' (H)
 1" = 20' (V)
 SHEET NO: 14 OF 29



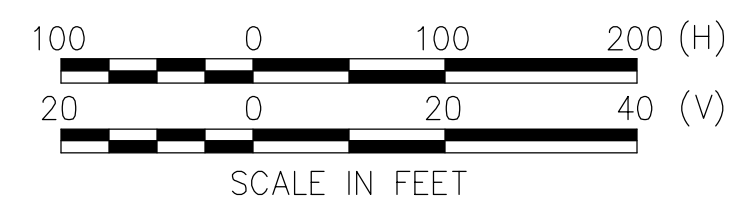
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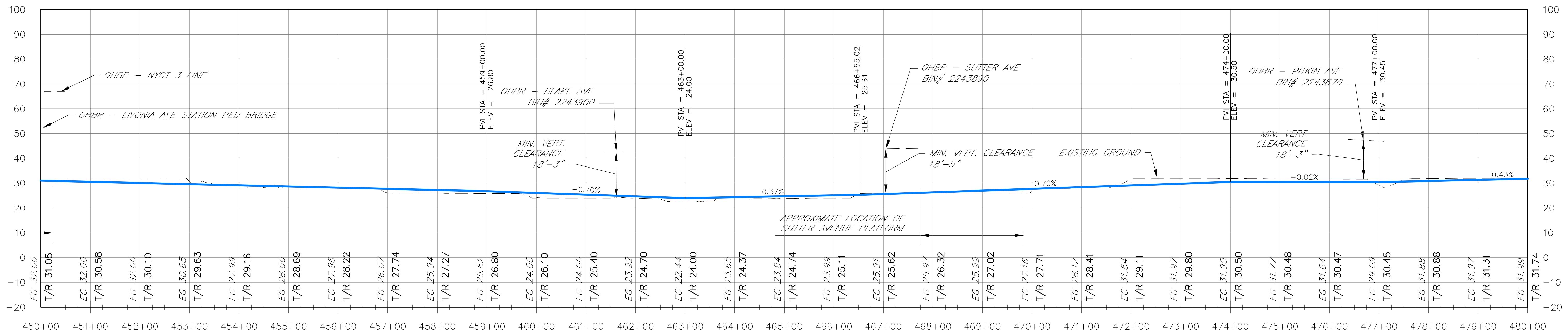
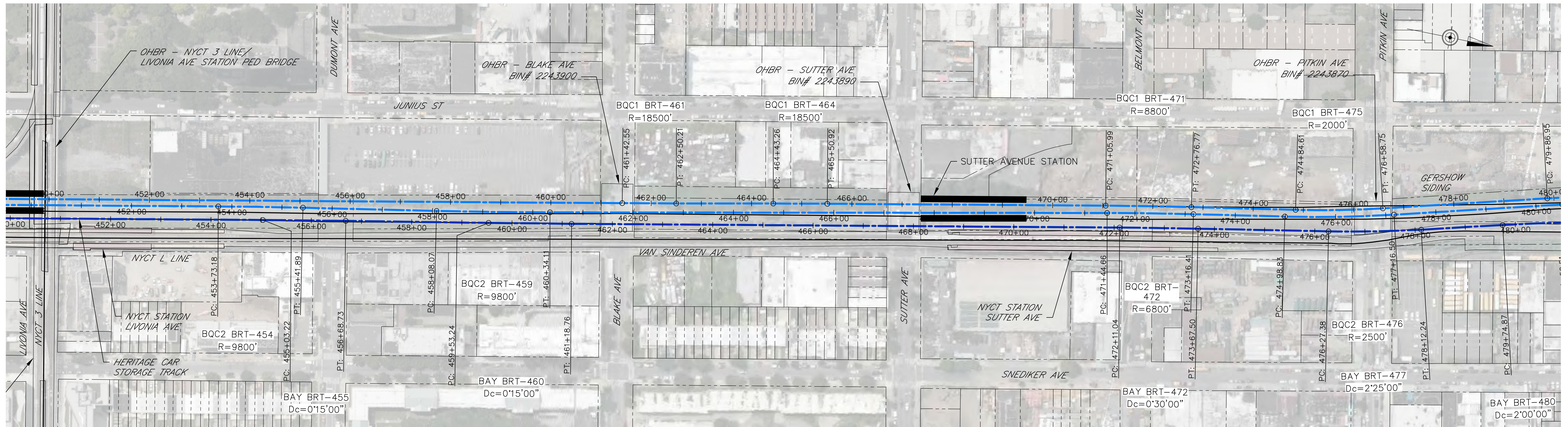
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CHECKED BY:
WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
15 OF 29





REV. NO.	DATE	BY	APP BY	DESCRIPTION
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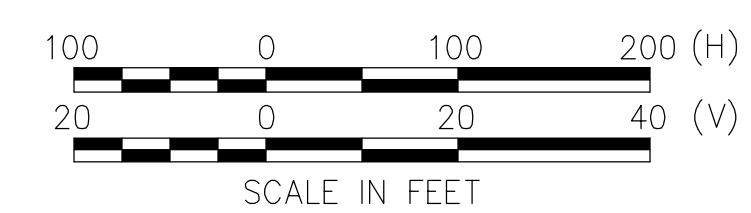
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DATE:
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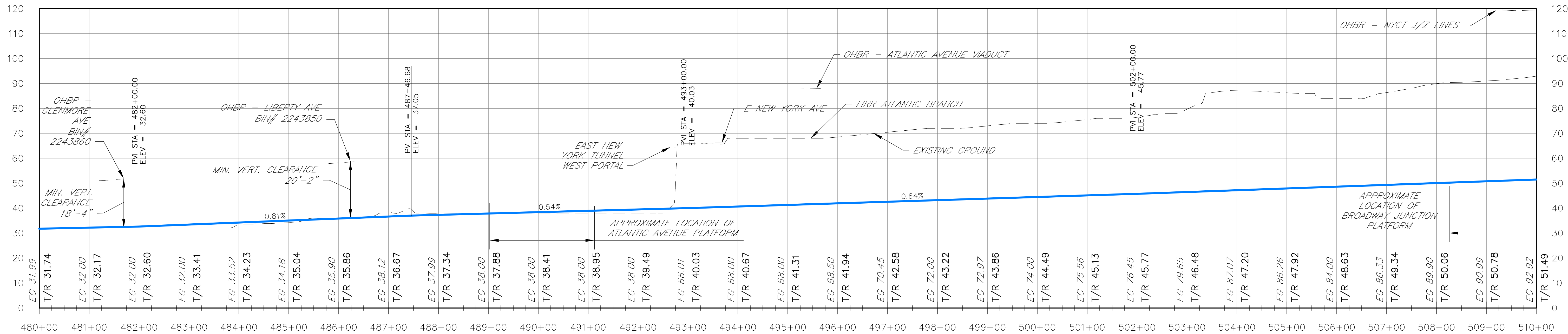
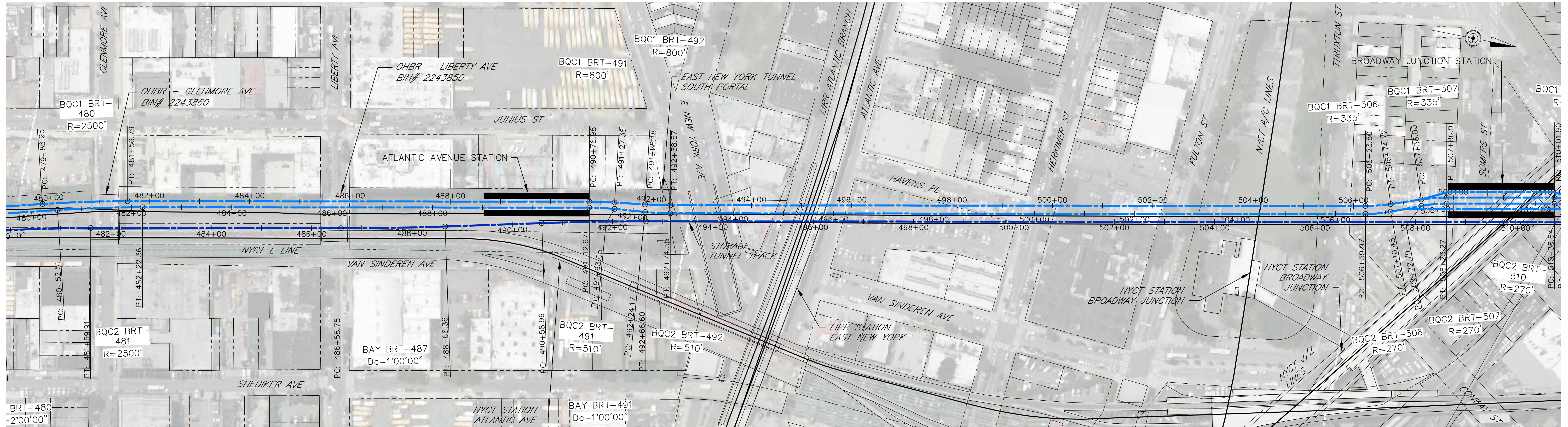


MTA BAY RIDGE CONNECTOR BRT2

GUIDEWAY PLAN AND PROFILE

PROJECT NO:
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SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
16 OF 29





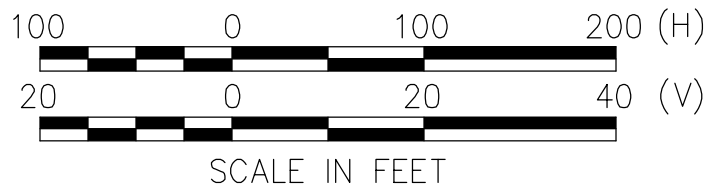
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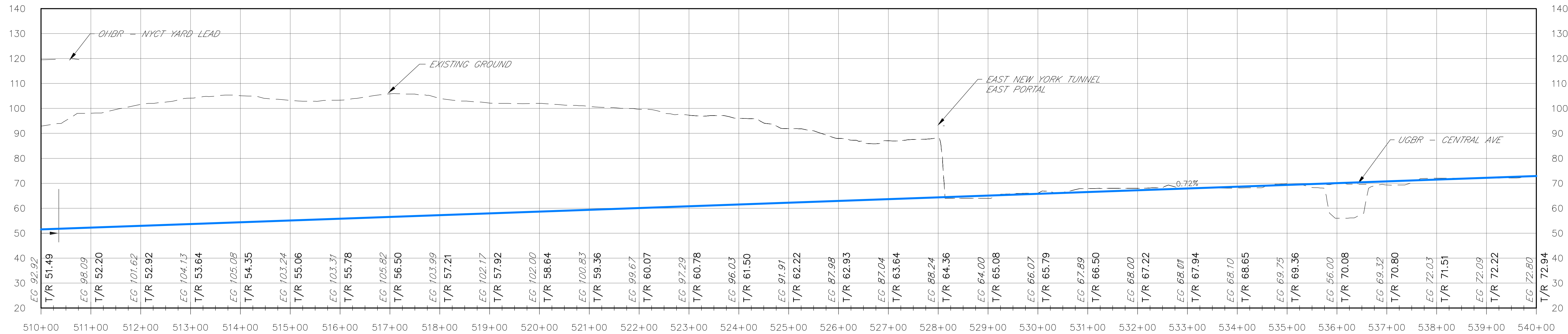
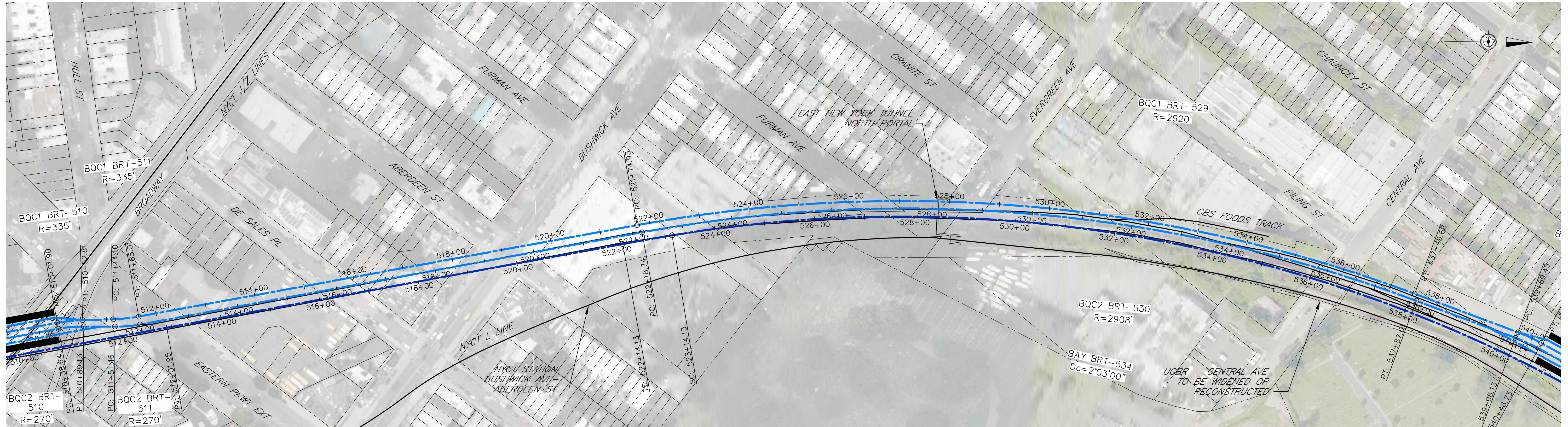
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WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
17 OF 29





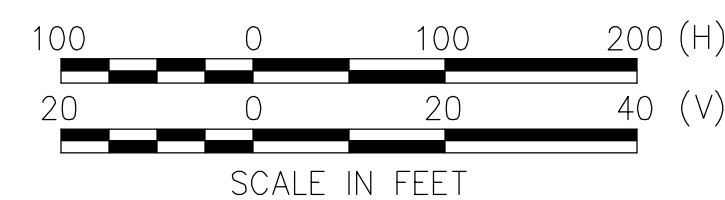
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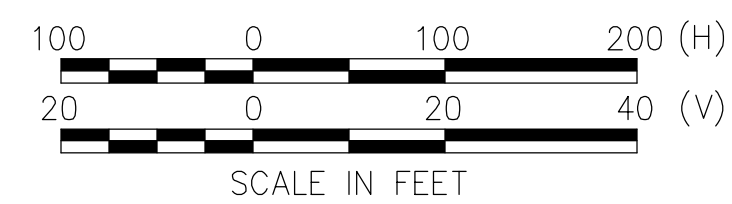
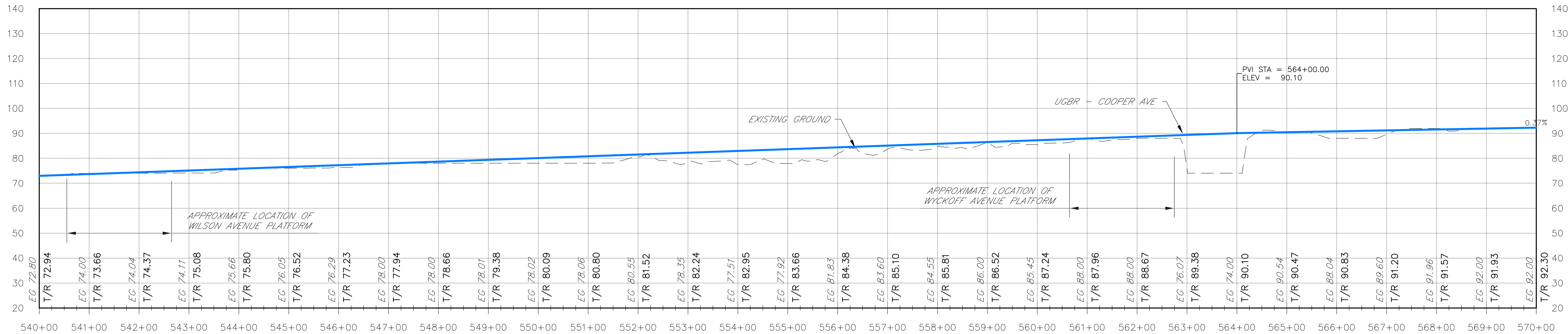
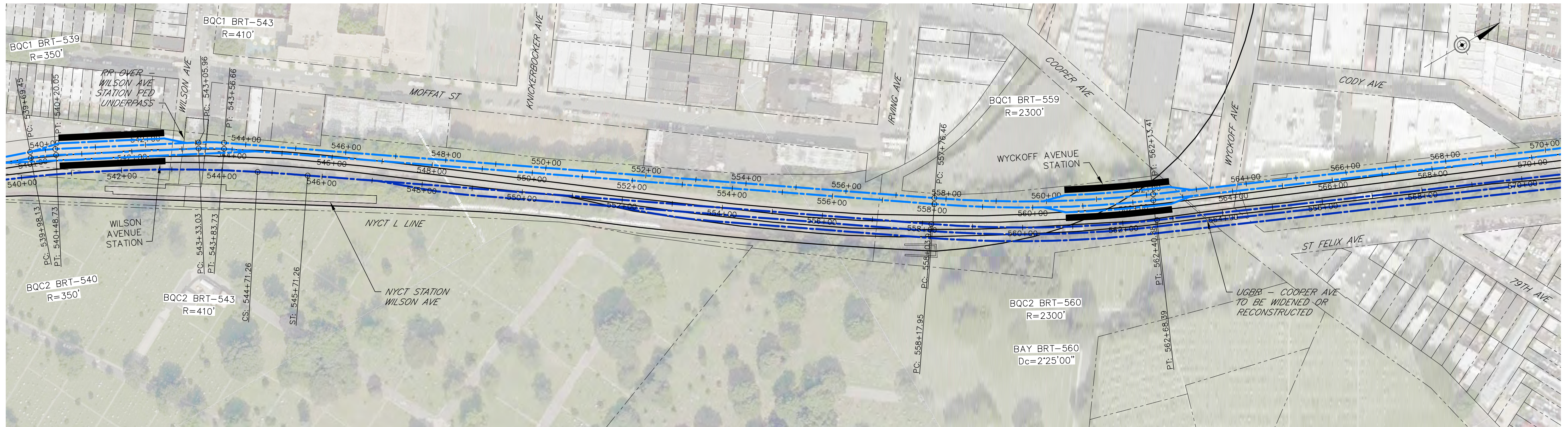
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JJM
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WVN
DATE:
10-06-2020



**MTA BAY RIDGE CONNECTOR
BRT2**
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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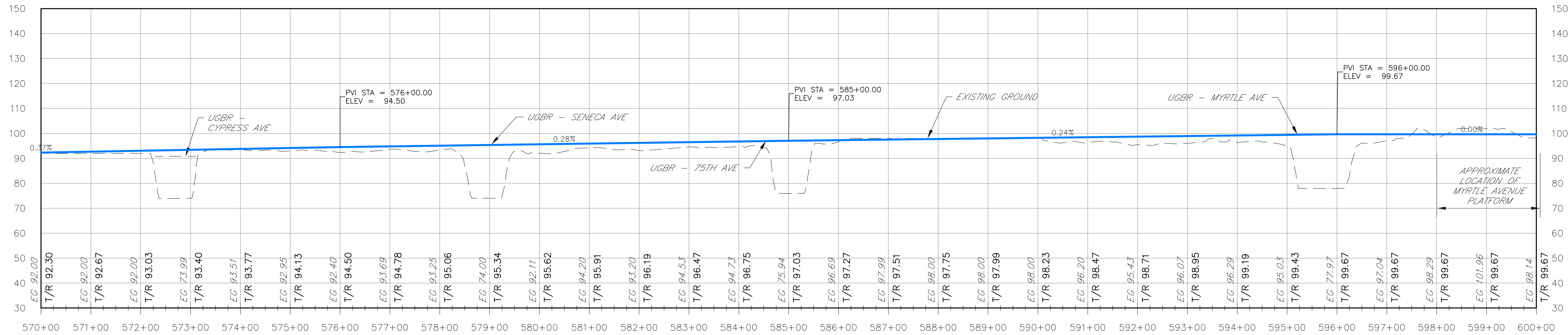
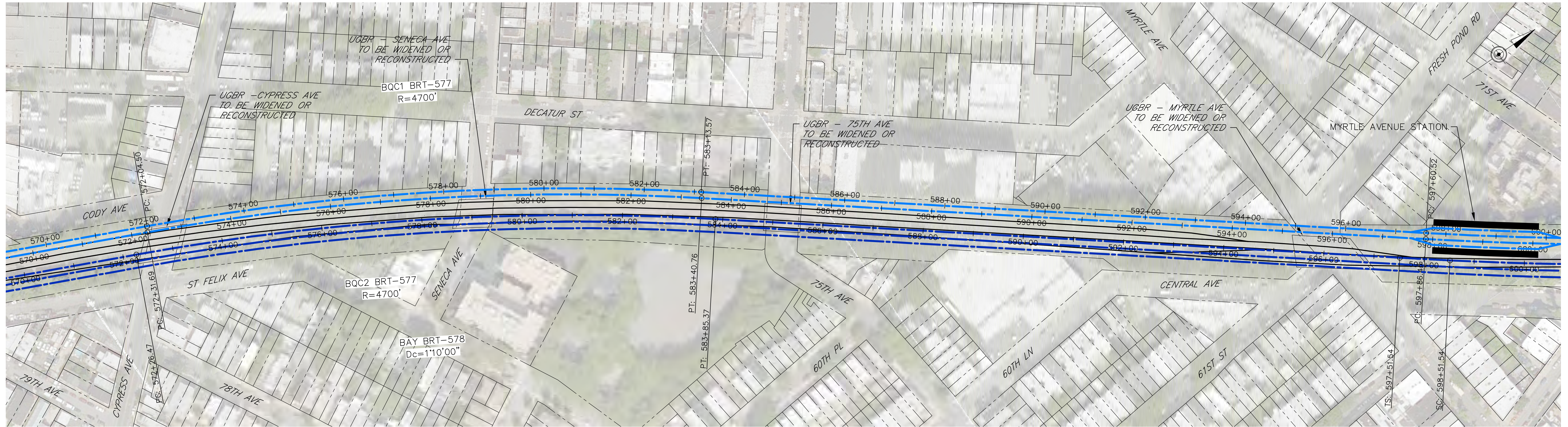
REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020

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PHILADELPHIA, PA 19103

**MTA BAY RIDGE CONNECTOR
BRT2**
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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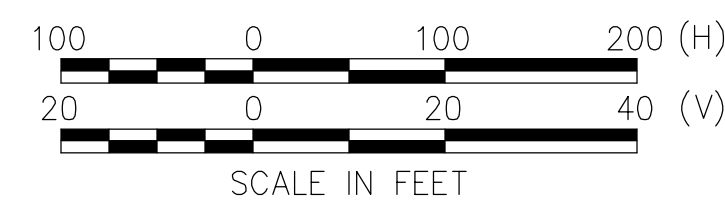
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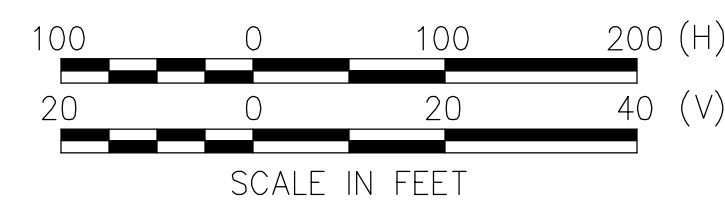
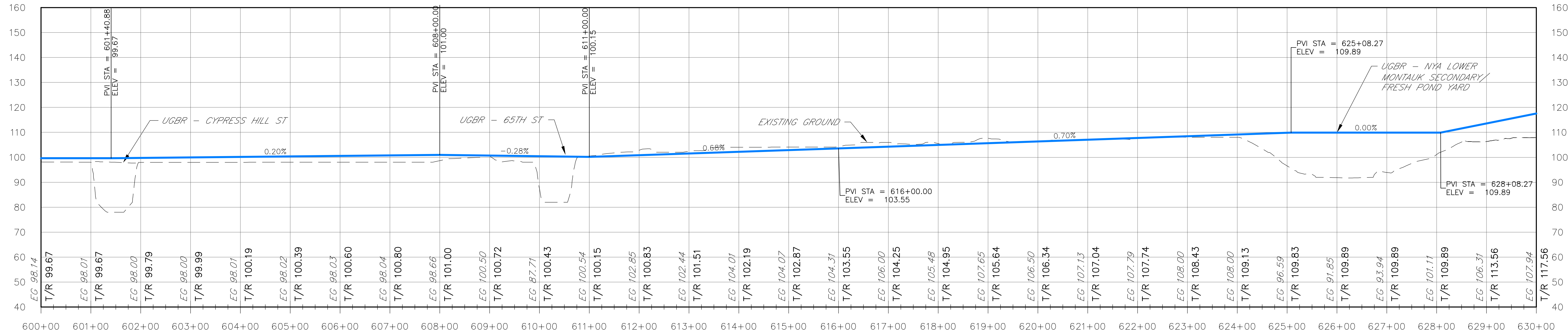
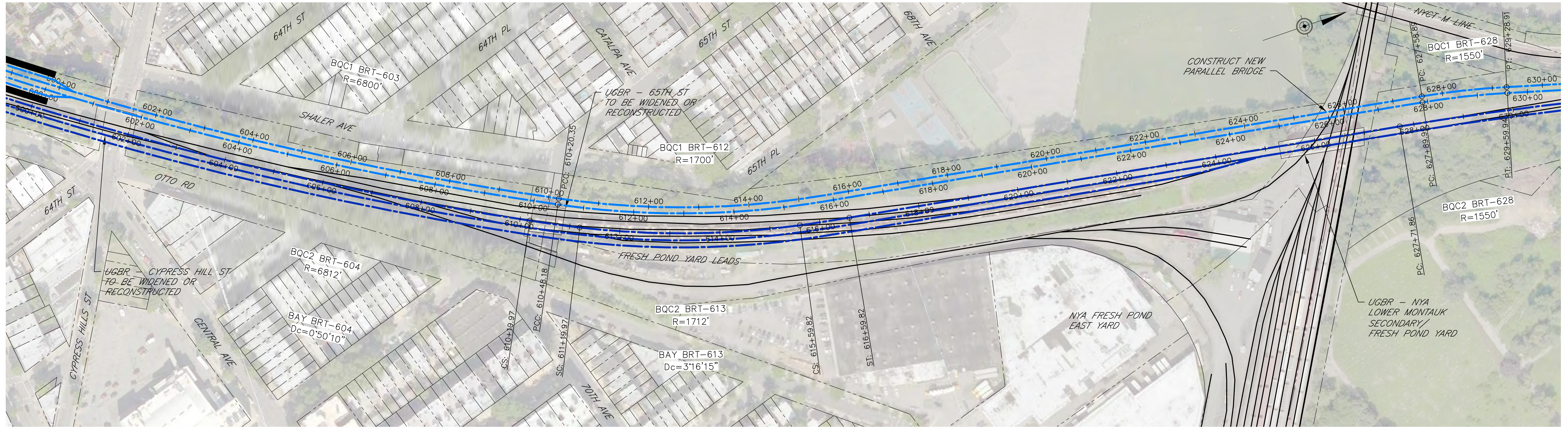
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JJM
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MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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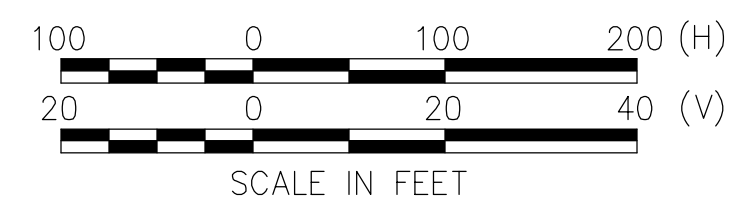
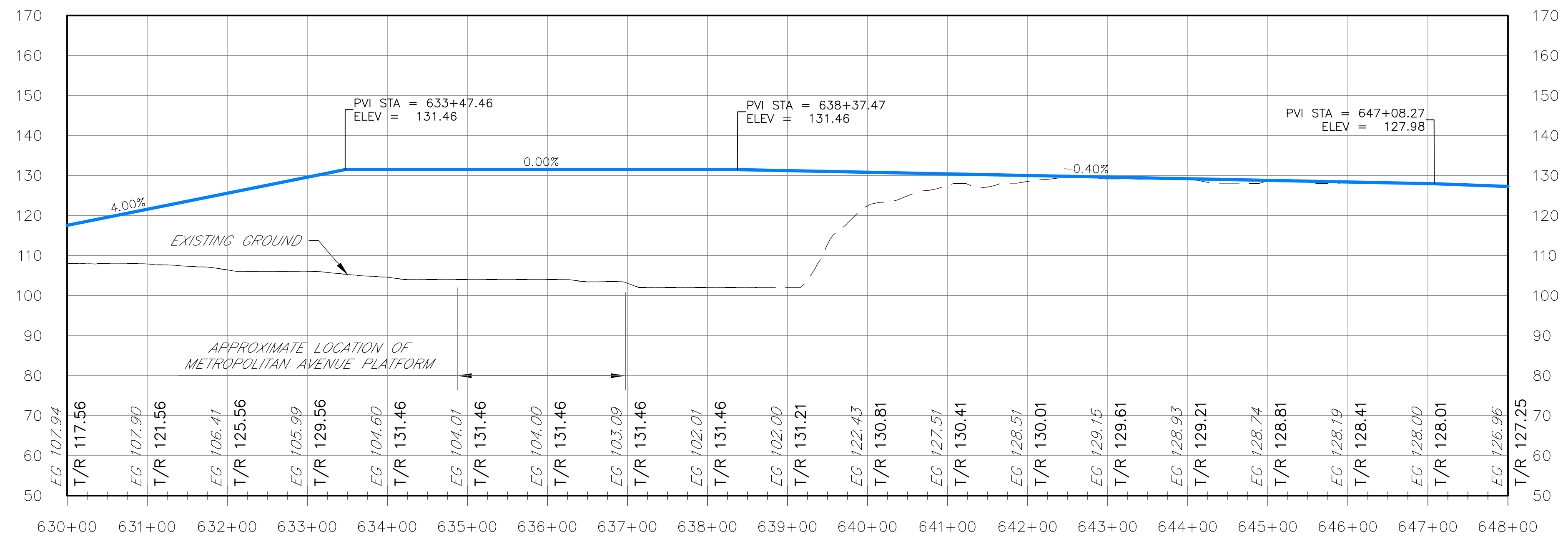
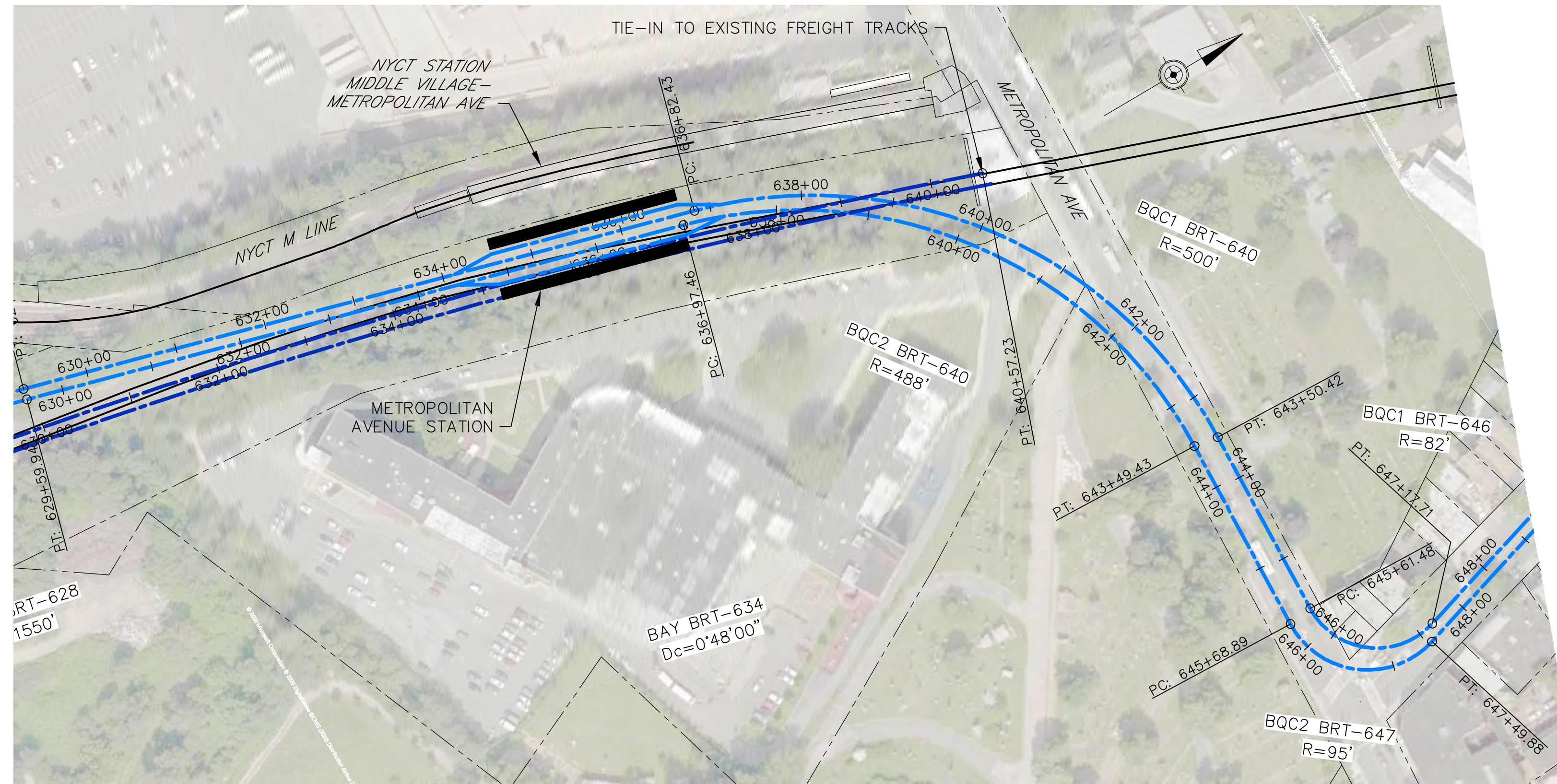
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
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WVN
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MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
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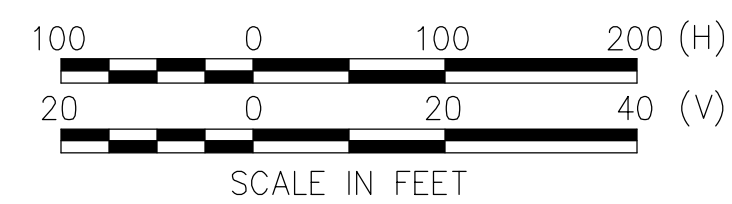
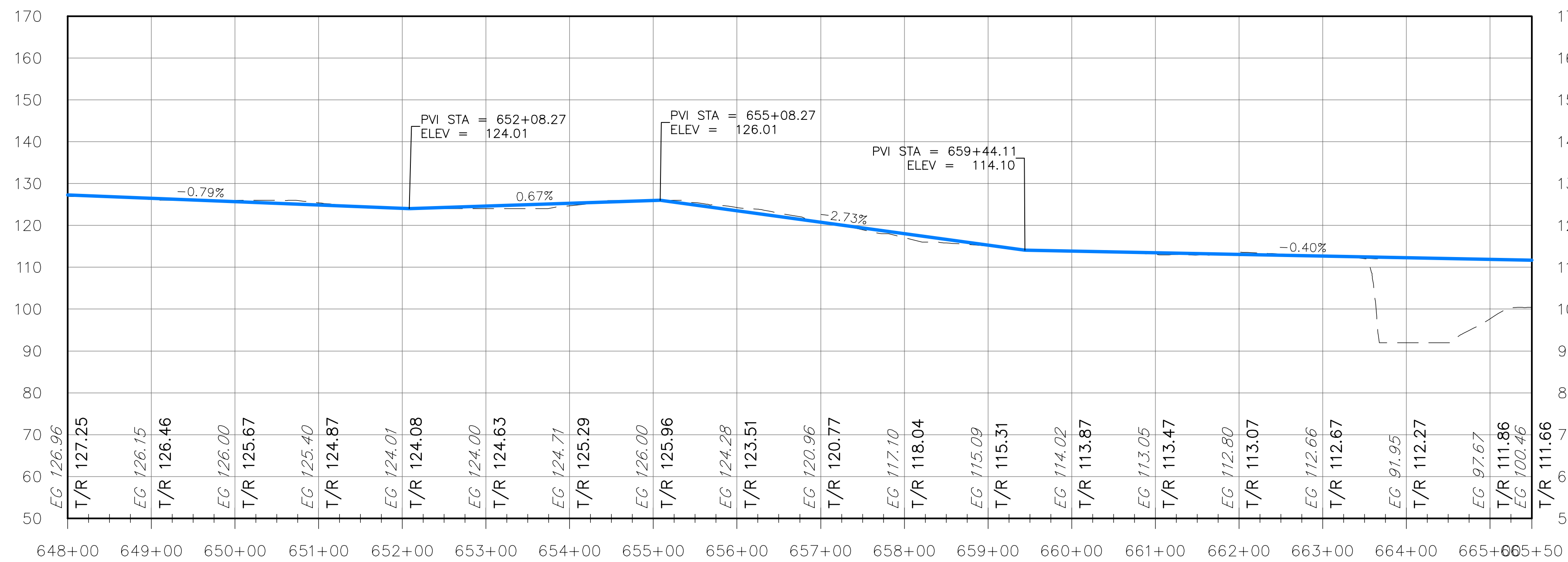
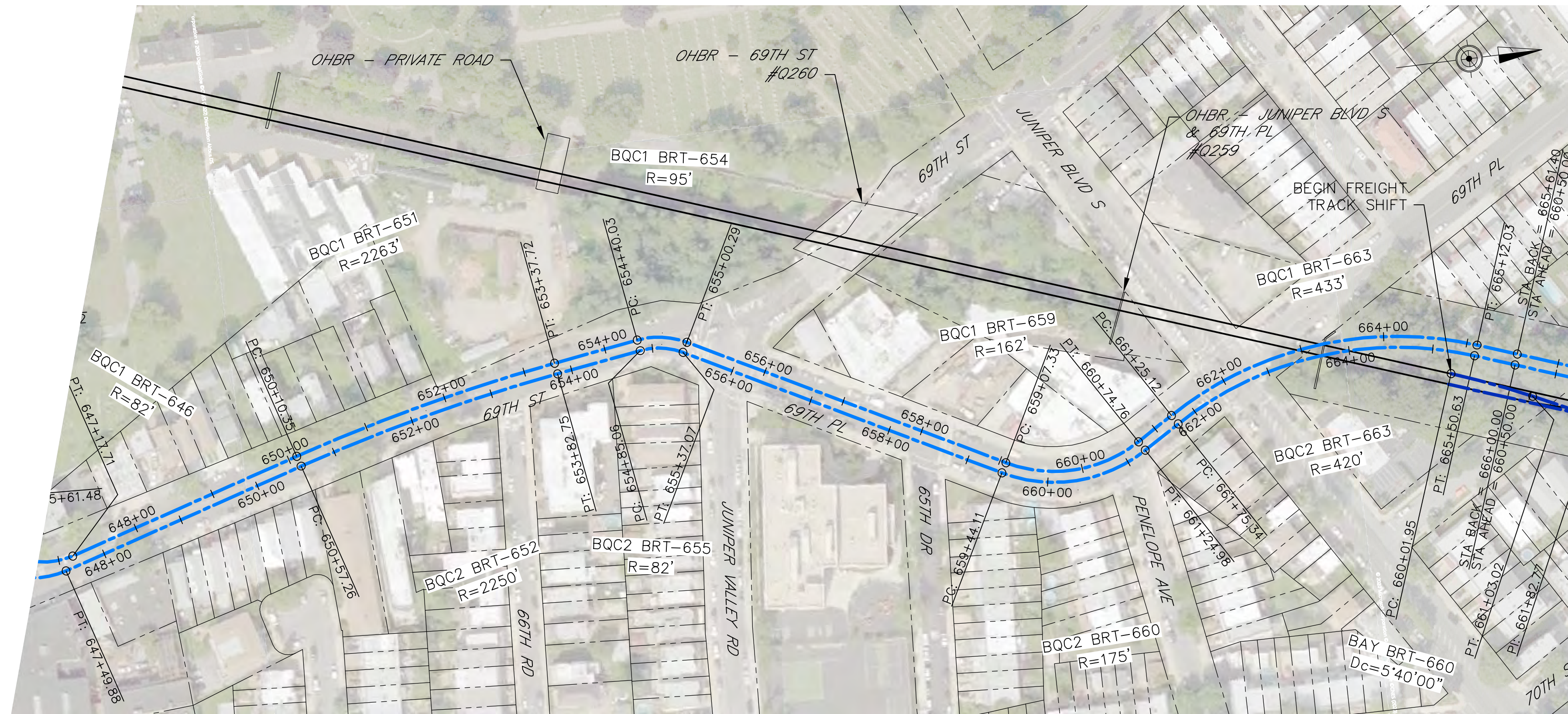
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01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM
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MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H) 1" = 20' (V)
SHEET NO: 22 OF 29



REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS

DESIGNED BY:
JJM

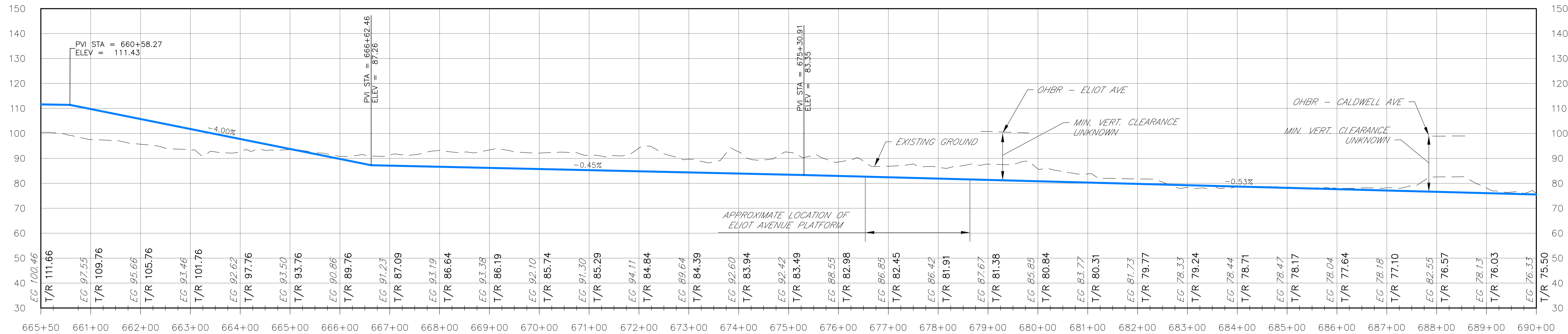
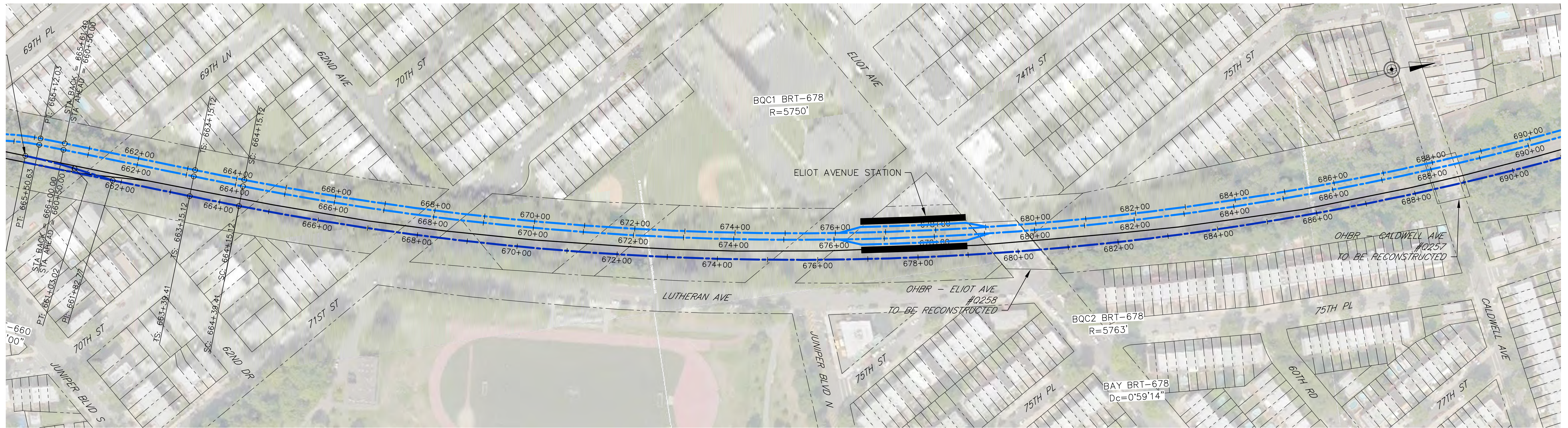
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CHECKED BY:
WVN

DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR BRT2 GUIDEWAY PLAN AND PROFILE	PROJECT NO:
	DRAWING NO:
SCALE: 1" = 100' (H) 1" = 20' (V)	
SHEET NO: 23 OF 29	



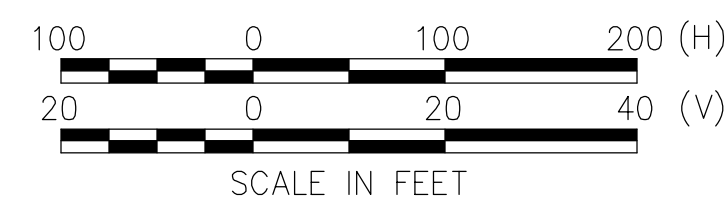
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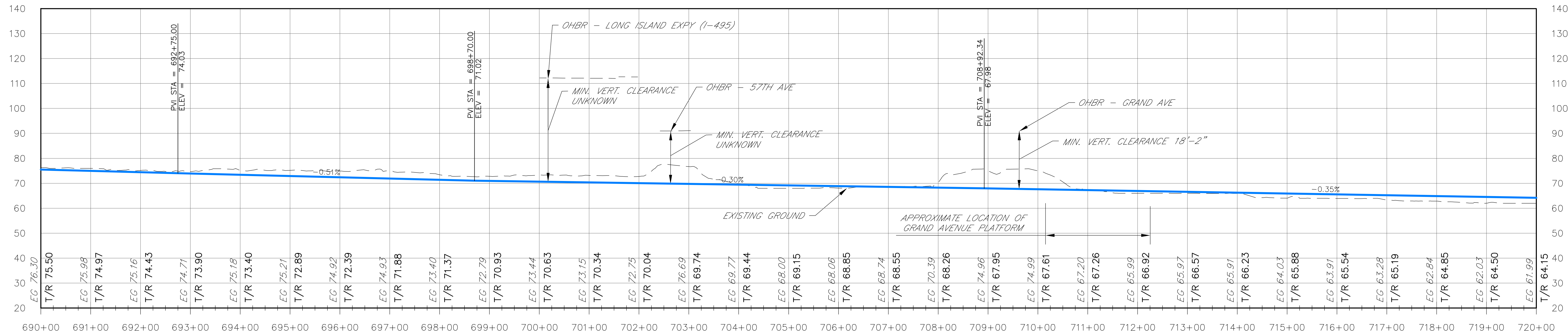
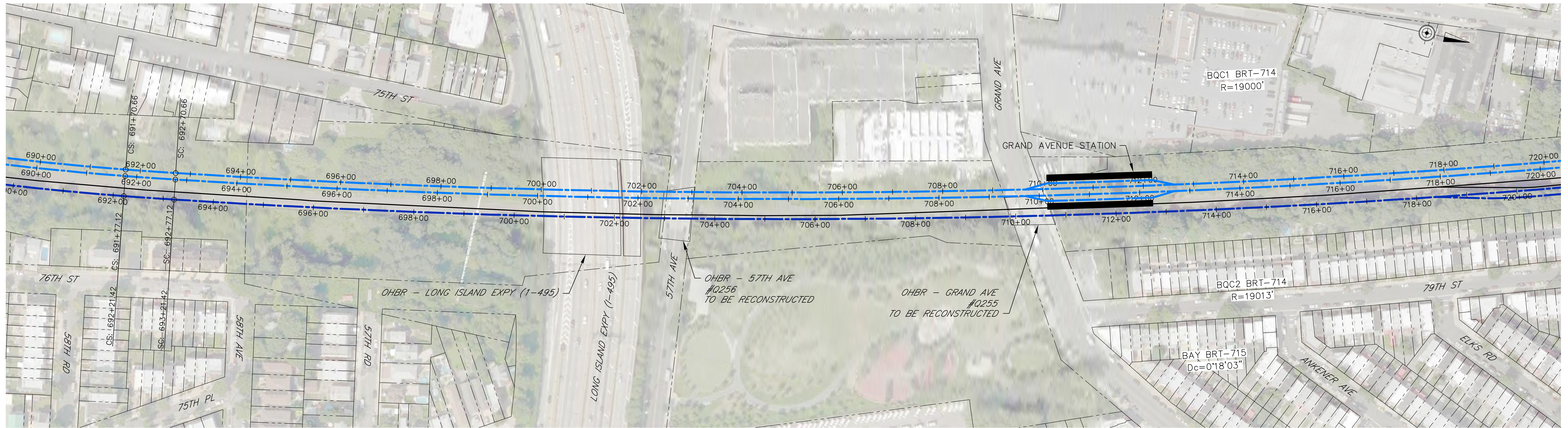
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DRAWN BY:
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CHECKED BY:
WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
24 OF 29





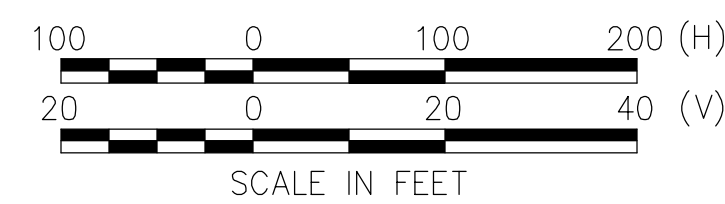
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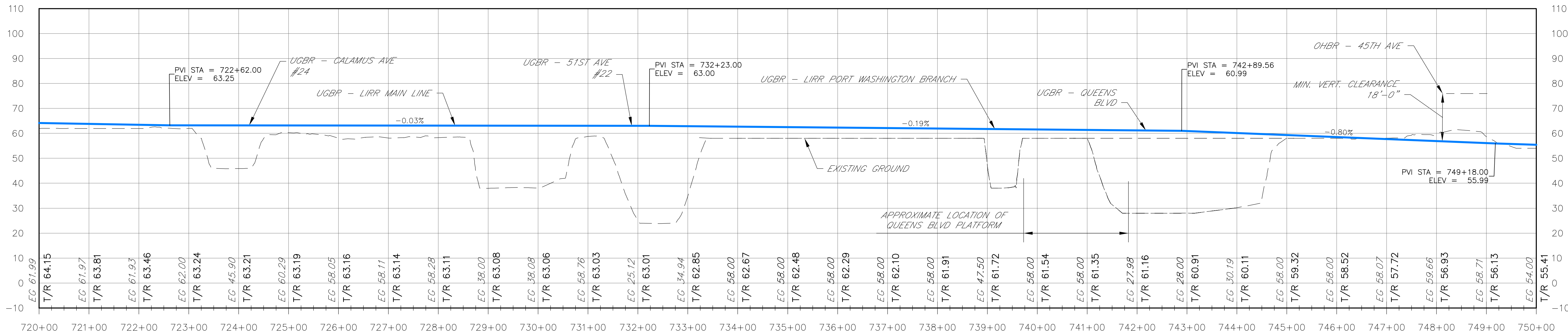
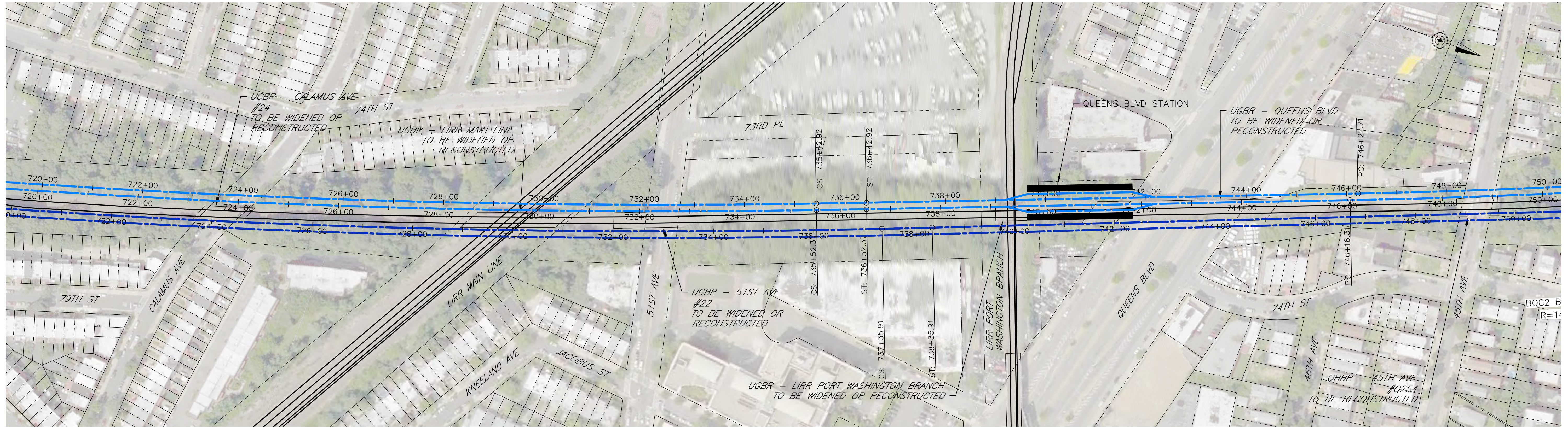
DESIGNED BY:
JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020

AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
25 OF 29





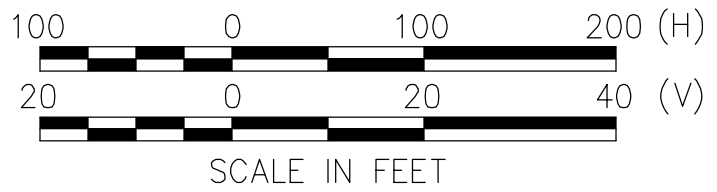
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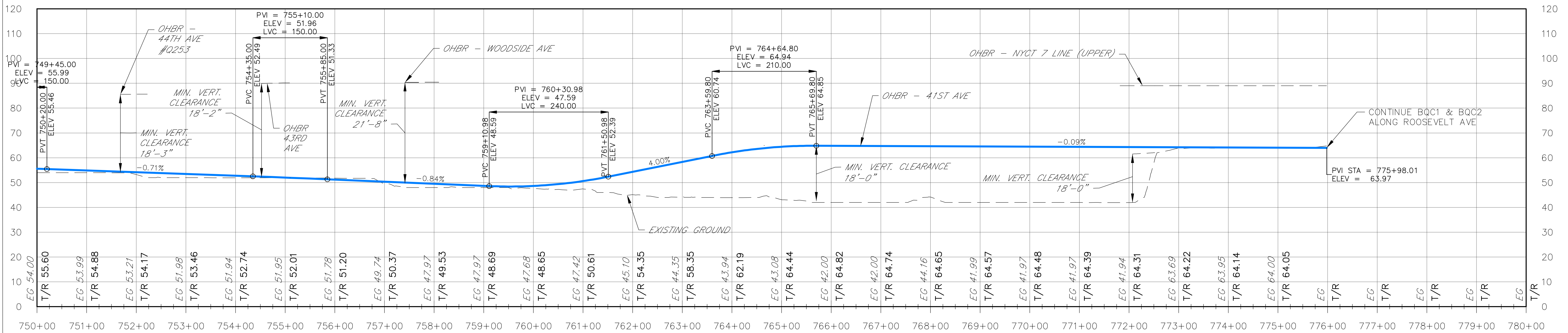
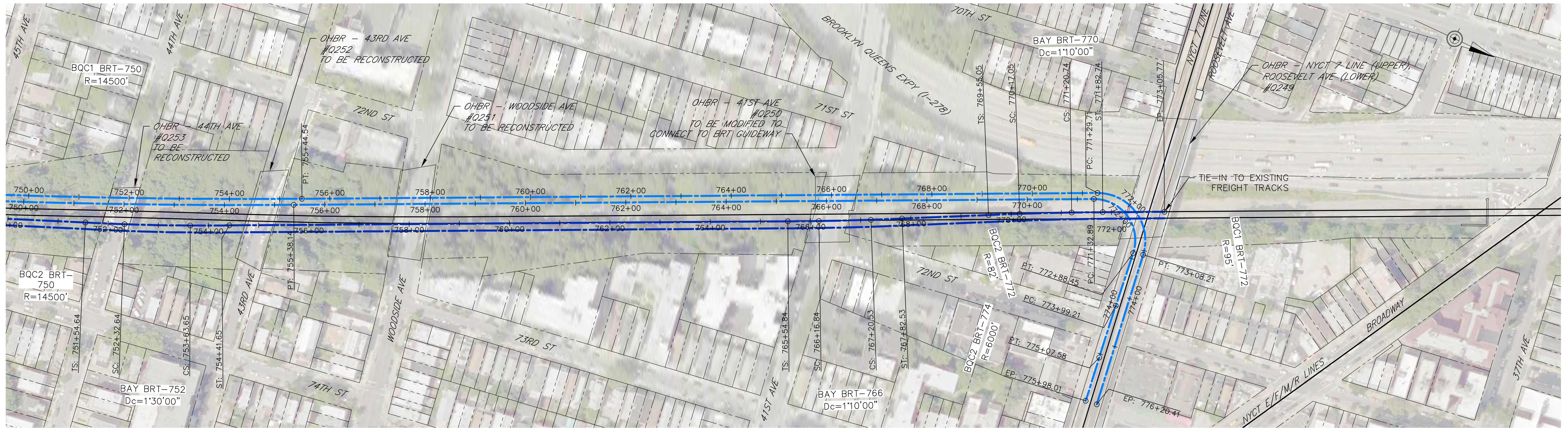
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JJM
DRAWN BY:
SAT
CHECKED BY:
WVN
DATE:
10-06-2020



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

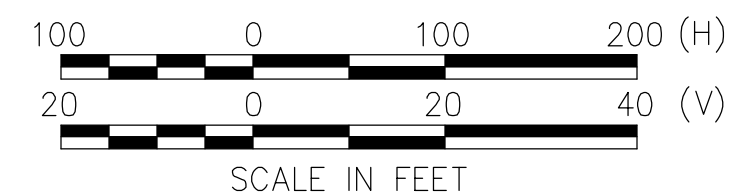
PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
26 OF 29





REV. NO.	DATE	BY	APP BY	DESCRIPTION
01	10-06-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
02	10-23-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
03	12-07-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: WORK IN PROGRESS
04	02-25-21	JJM	WVN	ROOSEVELT AVENUE ALTERNATIVE

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
02-25-2021



MTA BAY RIDGE CONNECTOR
BRT2
GUIDEWAY PLAN AND PROFILE

PROJECT NO:
DRAWING NO:
SCALE: 1" = 100' (H)
1" = 20' (V)
SHEET NO:
27 OF 29



Appendix 2.2: Conceptual Engineering: Typical Sections

Prepared for:

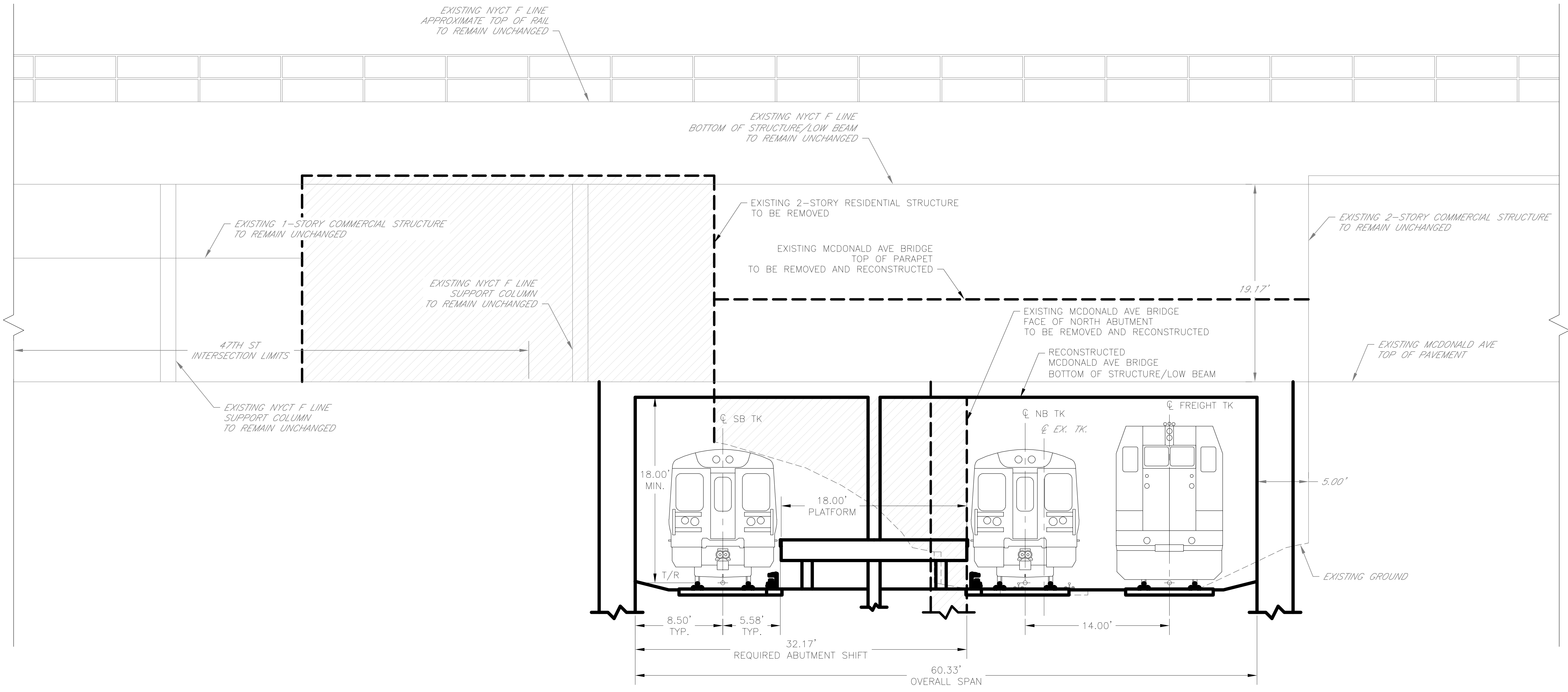
NY Metropolitan Transportation Authority
Transportation Systems Analysis

Prepared by:

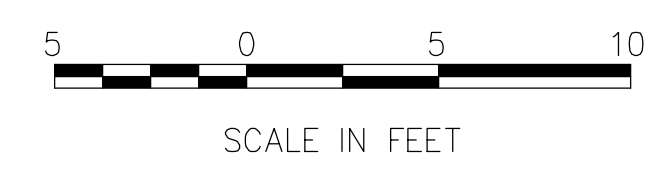
The AECOM Team
AECOM USA, Inc.
WSP
Integrated Systems Resources, Inc.
Infinity Consulting Corp.
Sobers Consulting, LLC



December 2021



TYPICAL SECTION AT MCDONALD AVE – WEST FASCIA
COMMUTER RAIL



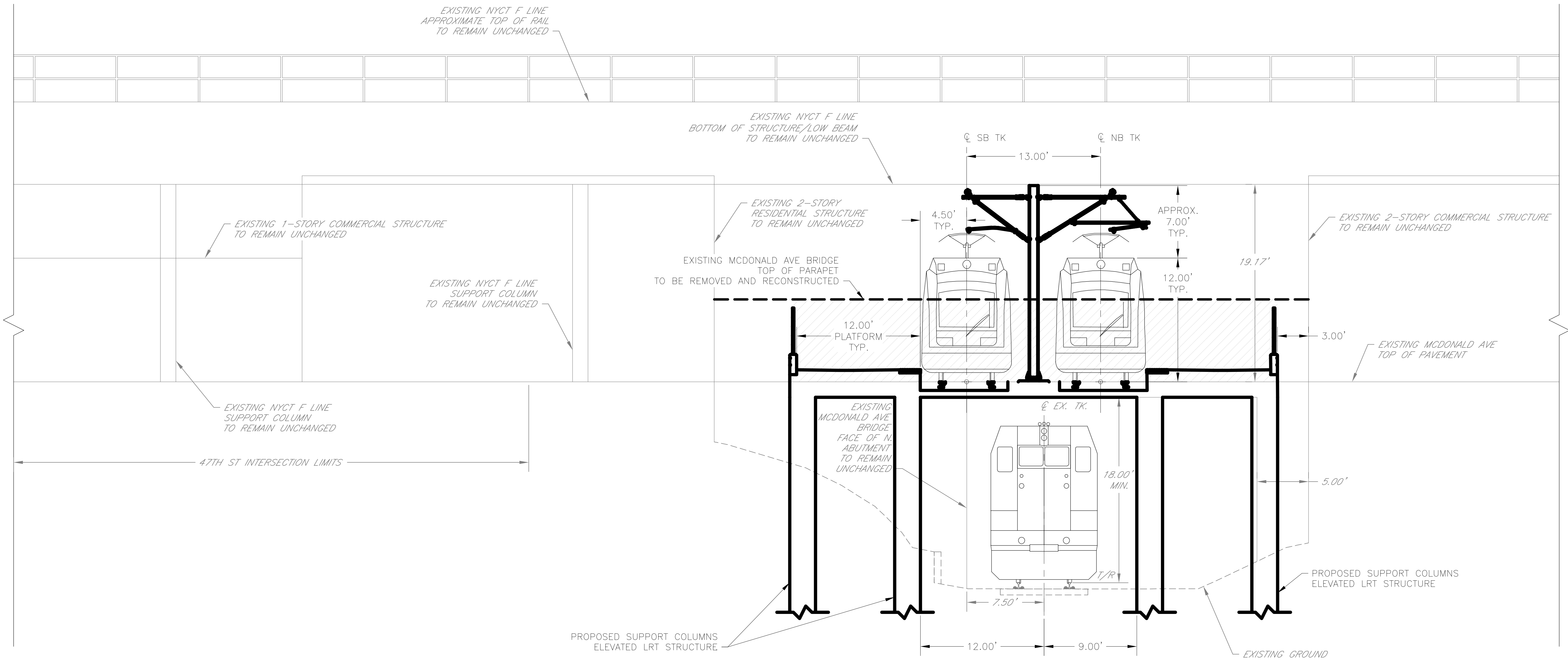
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02	12-16-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: W.I.P.
03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY: JJM
DRAWN BY: JJM
CHECKED BY: WVN
DATE: 12-17-2020

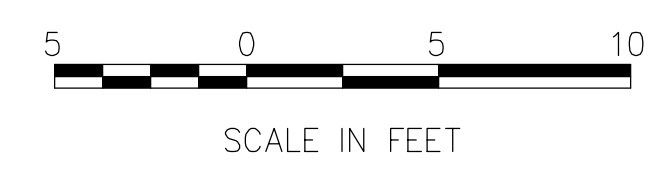


PROJECT NO:
DRAWING NO:
SCALE: 1" = 5'
SHEET NO: 0F

MTA BAY RIDGE CONNECTOR
TYPICAL SECTIONS - ALL MODES
1 OF 15



TYPICAL SECTION AT MCDONALD AVE – WEST FASCIA
LIGHT RAIL



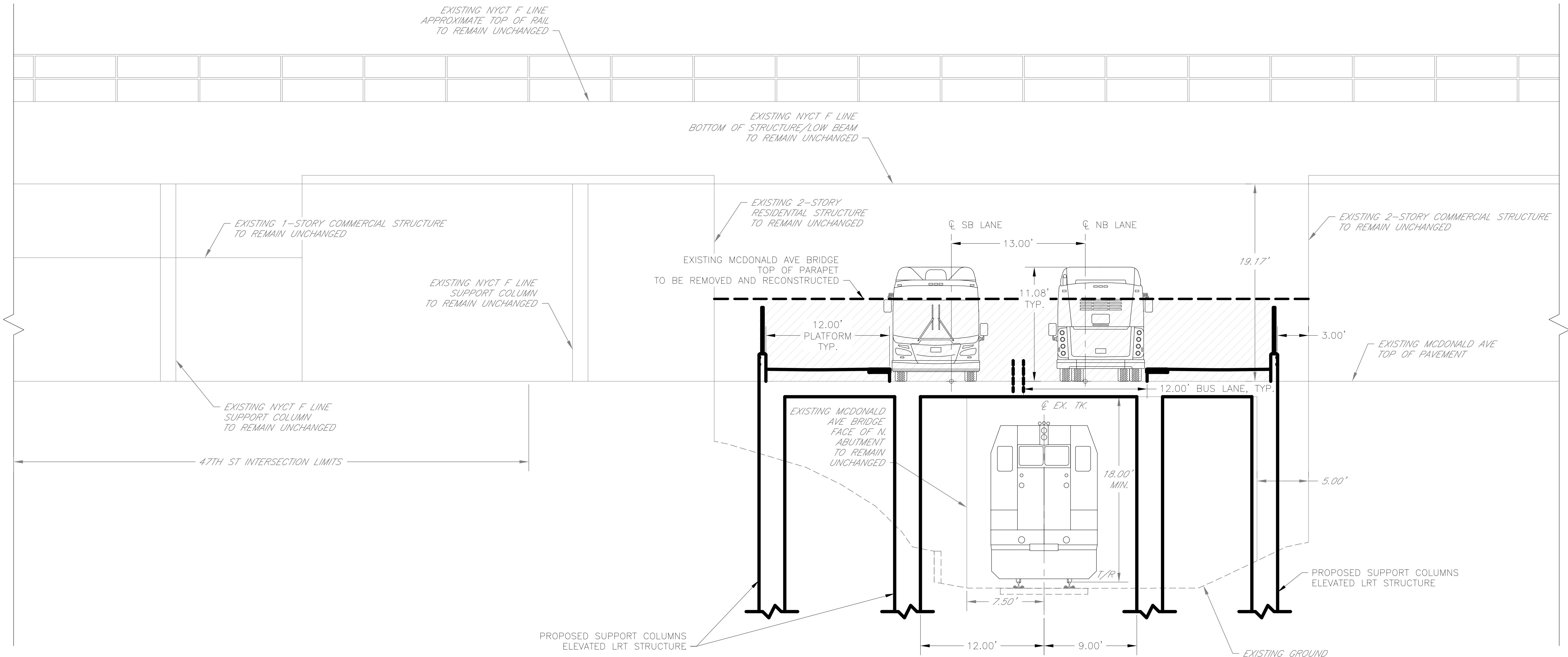
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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020

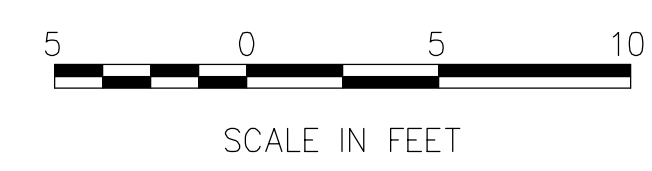


PROJECT NO:
DRAWING NO:
SCALE: 1" = 5'
SHEET NO: OF

MTA BAY RIDGE CONNECTOR
TYPICAL SECTIONS - ALL MODES
2 OF 15



TYPICAL SECTION AT MCDONALD AVE – WEST FASCIA
BUS RAPID TRANSIT



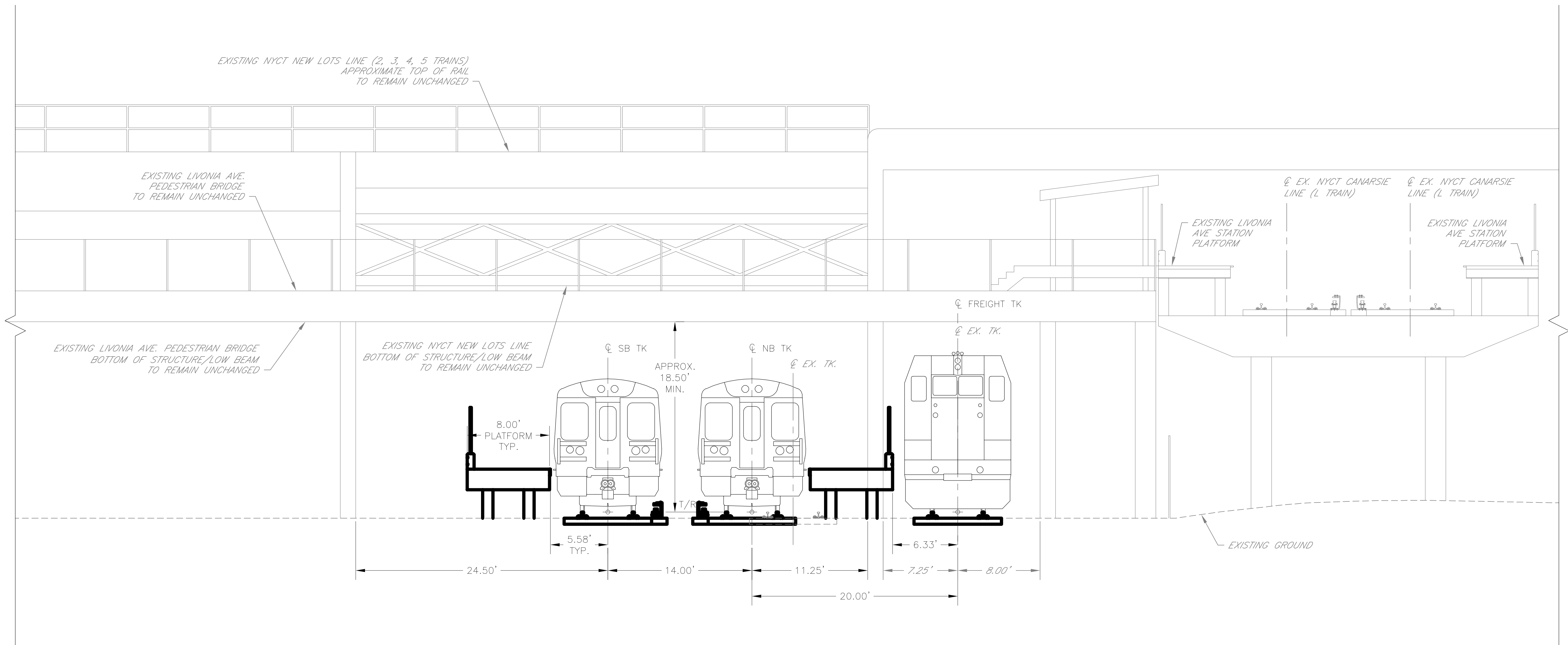
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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020



MTA BAY RIDGE CONNECTOR
TYPICAL SECTIONS - ALL MODES
3 OF 15

PROJECT NO:	
DRAWING NO:	
SCALE:	1" = 5'
SHEET NO:	OF



TYPICAL SECTION AT LIVONIA AVE – SOUTH FASCIA
COMMUTER RAIL

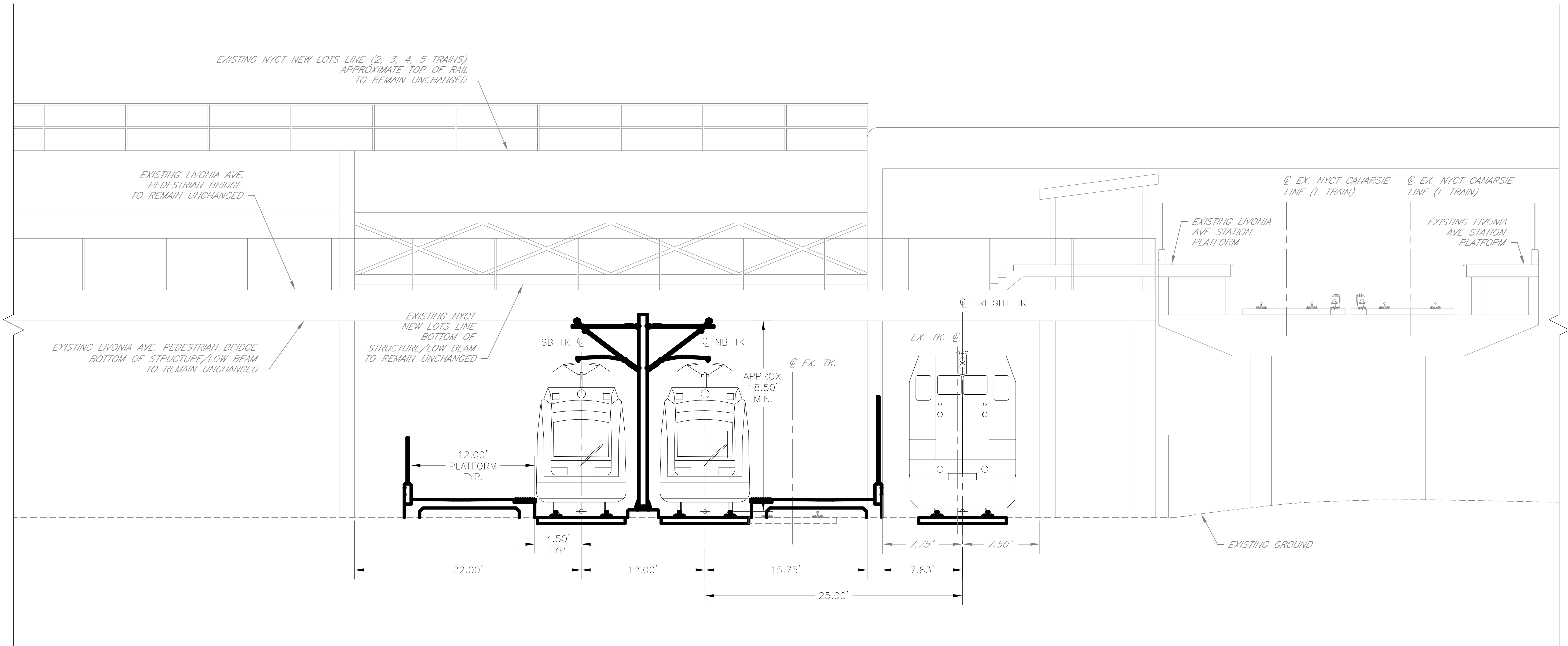


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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020



MTA BAY RIDGE CONNECTOR TYPICAL SECTIONS - ALL MODES 4 OF 15	PROJECT NO:
	DRAWING NO:
SCALE: 1" = 5'	
SHEET NO: OF	



TYPICAL SECTION AT LIVONIA AVE – SOUTH FASCIA LIGHT RAIL



REV.NO.	DATE	BY	APP BY	DESCRIPTION
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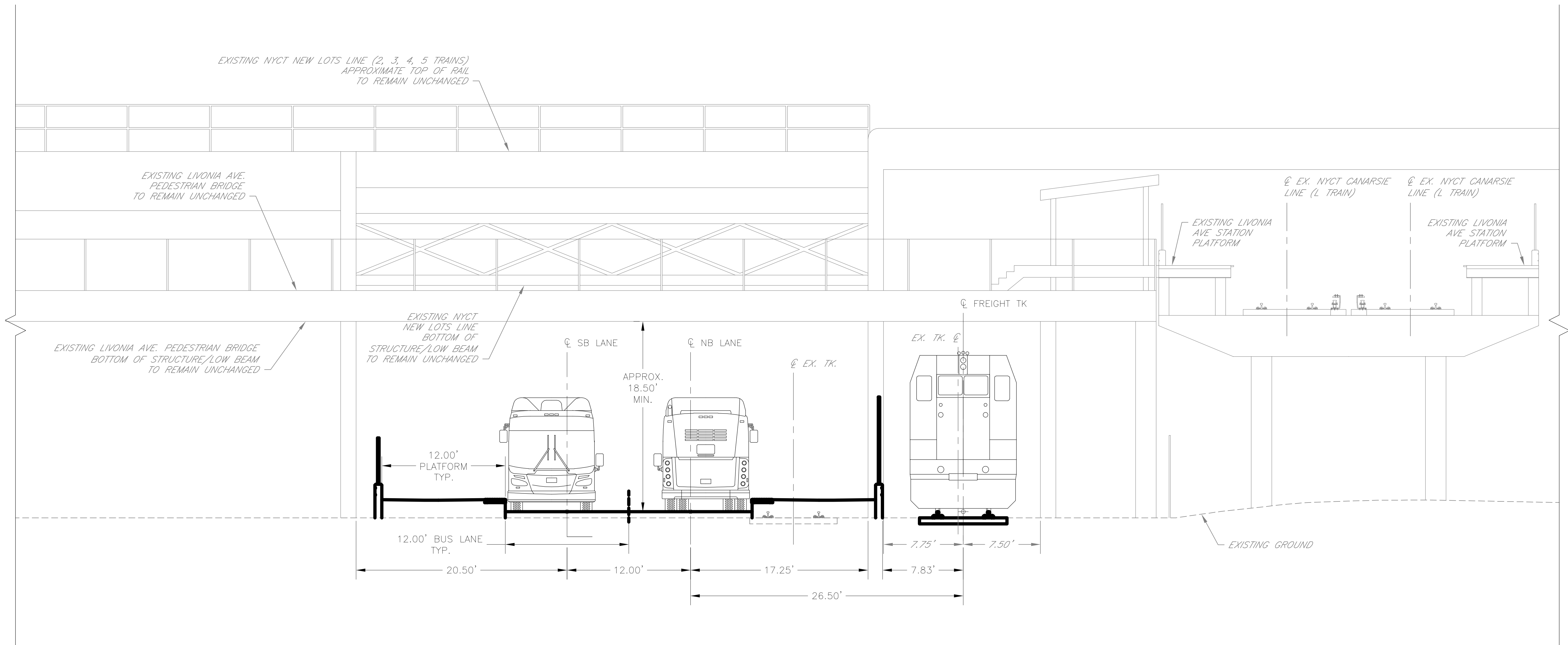
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DRAWN BY: JJM
CHECKED BY: WVN
DATE: 12-17-2020



PROJECT NO:
DRAWING NO:
SCALE: 1" = 5'
SHEET NO: OF

MTA BAY RIDGE CONNECTOR

TYPICAL SECTIONS - ALL MODES
5 OF 15



TYPICAL SECTION AT LIVONIA AVE – SOUTH FASCIA
BUS RAPID TRANSIT



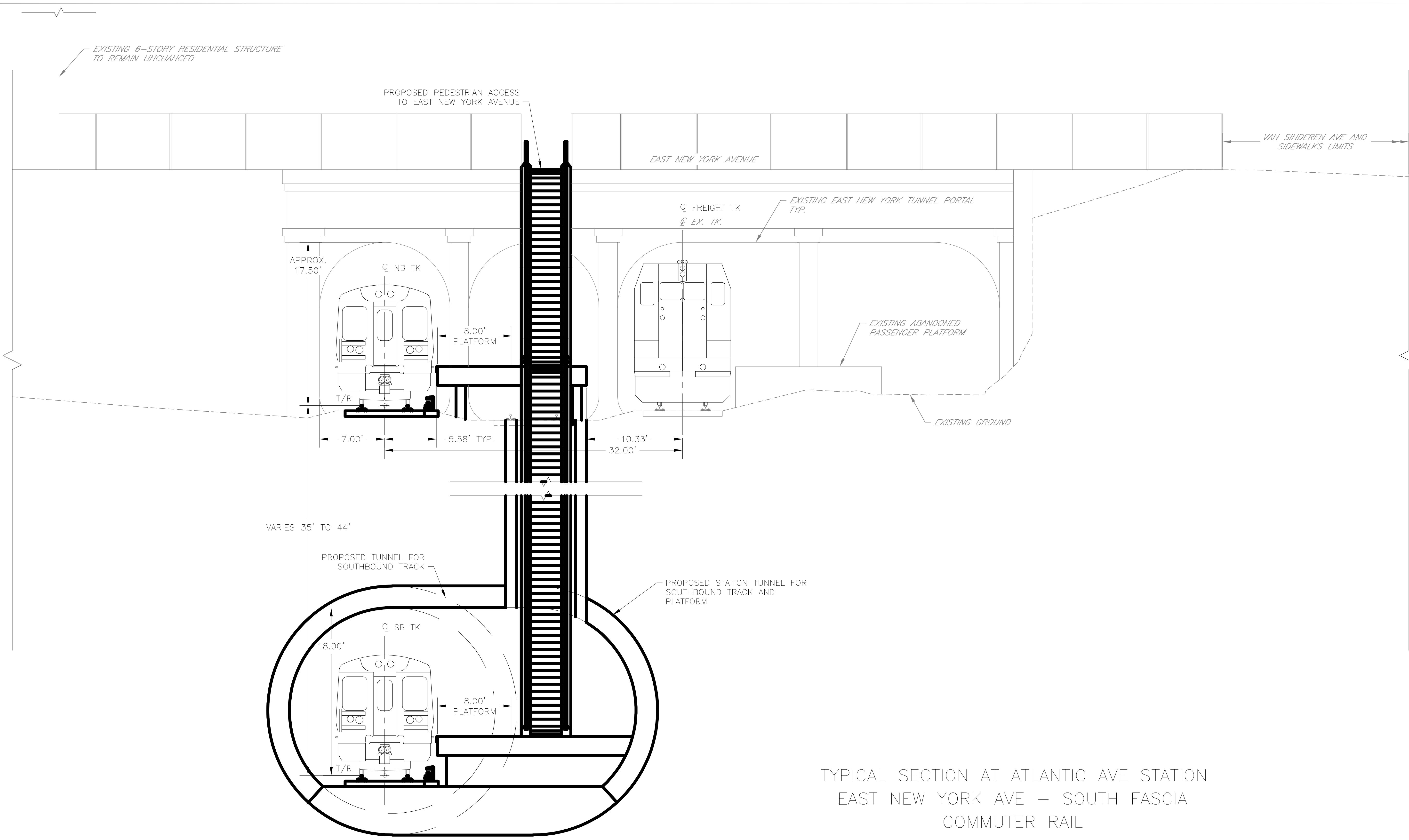
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02	12-16-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: W.I.P.
03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020

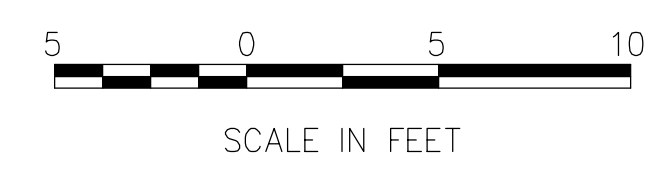


MTA BAY RIDGE CONNECTOR
TYPICAL SECTIONS - ALL MODES
6 OF 15

PROJECT NO:
DRAWING NO:
SCALE: 1" = 5'
SHEET NO: OF



TYPICAL SECTION AT ATLANTIC AVE STATION
 EAST NEW YORK AVE – SOUTH FASCIA
 COMMUTER RAIL



REV.NO.	DATE	BY	APP BY	DESCRIPTION
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02	12-16-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: W.I.P.
03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

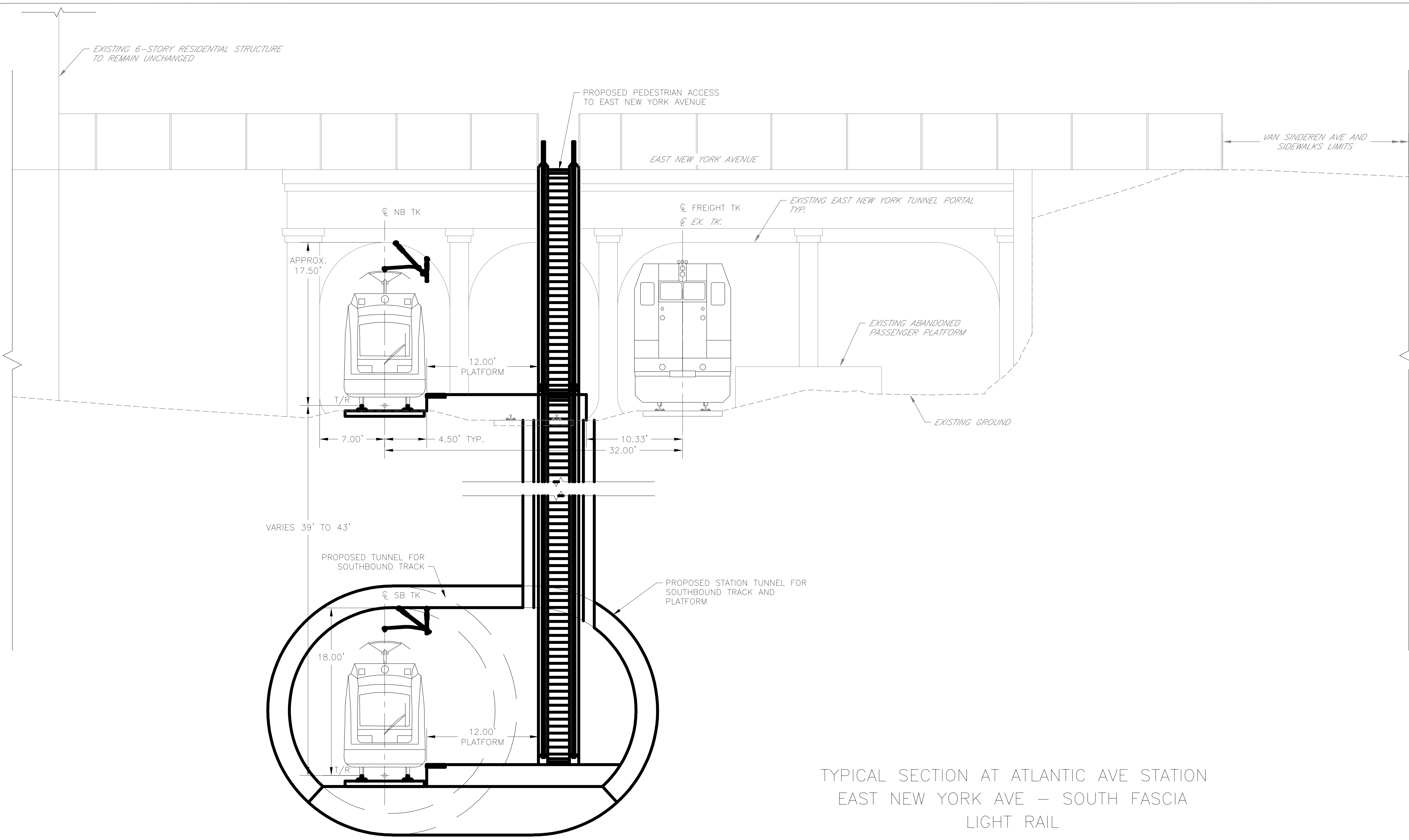
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CHECKED BY: WVN	
DATE: 12-17-2020	



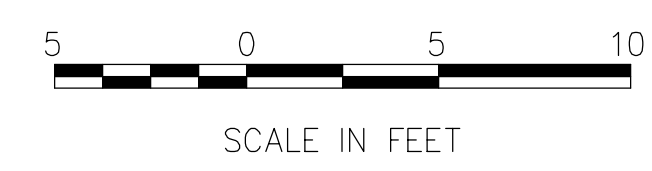
PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 5'
 SHEET NO: OF

MTA BAY RIDGE CONNECTOR

TYPICAL SECTIONS - ALL MODES
 7 OF 15



TYPICAL SECTION AT ATLANTIC AVE STATION
 EAST NEW YORK AVE – SOUTH FASCIA
 LIGHT RAIL



REV.NO.	DATE	BY	APP BY	DESCRIPTION
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02	12-16-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: W.I.P.
03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY: JJM
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CHECKED BY: WVN
DATE: 12-17-2020

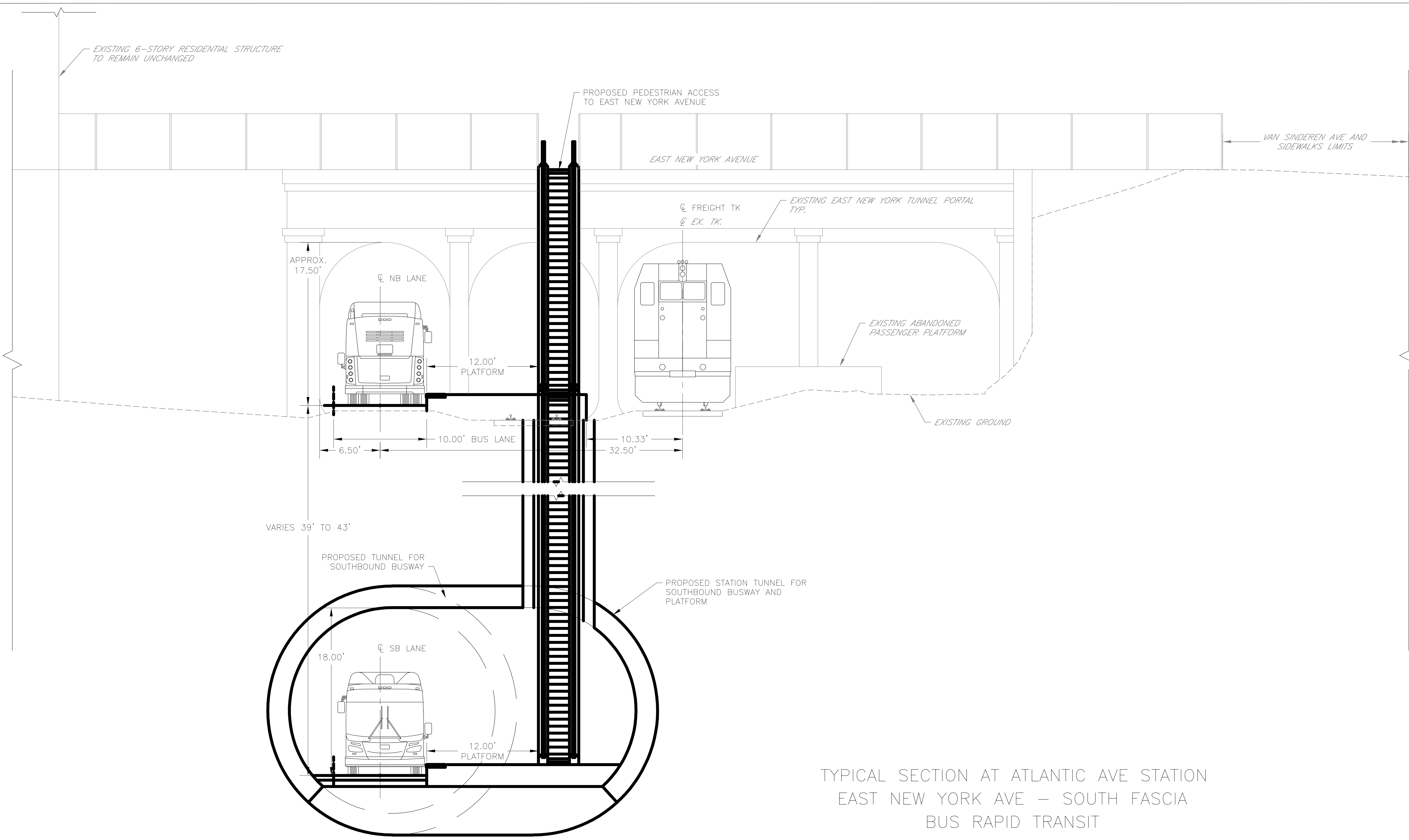


PROJECT NO:
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SCALE: 1" = 5'
SHEET NO: 8 OF 15

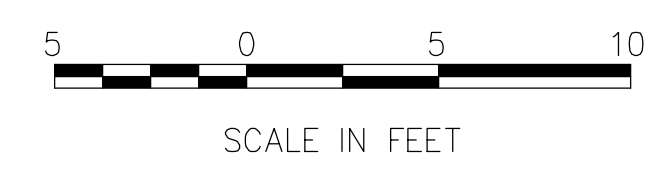
MTA BAY RIDGE CONNECTOR

TYPICAL SECTIONS - ALL MODES

OF



TYPICAL SECTION AT ATLANTIC AVE STATION
 EAST NEW YORK AVE – SOUTH FASCIA
 BUS RAPID TRANSIT



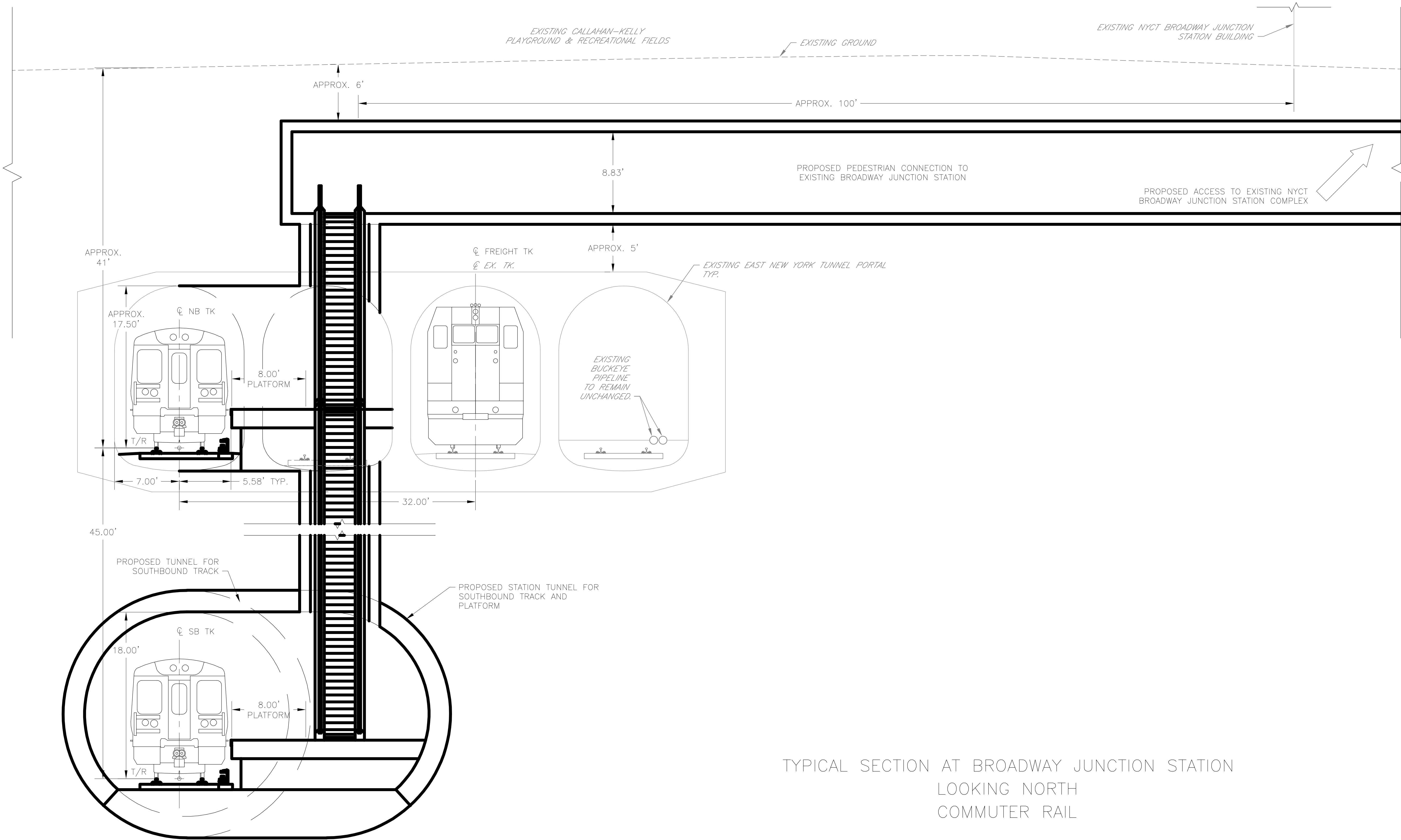
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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY: JJM
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CHECKED BY: WVN
DATE: 12-17-2020

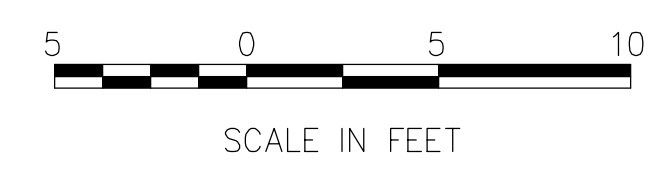


PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 5'
 SHEET NO: 9 OF 15

MTA BAY RIDGE CONNECTOR
 TYPICAL SECTIONS - ALL MODES
 9 OF 15
 OF



TYPICAL SECTION AT BROADWAY JUNCTION STATION
LOOKING NORTH
COMMUTER RAIL



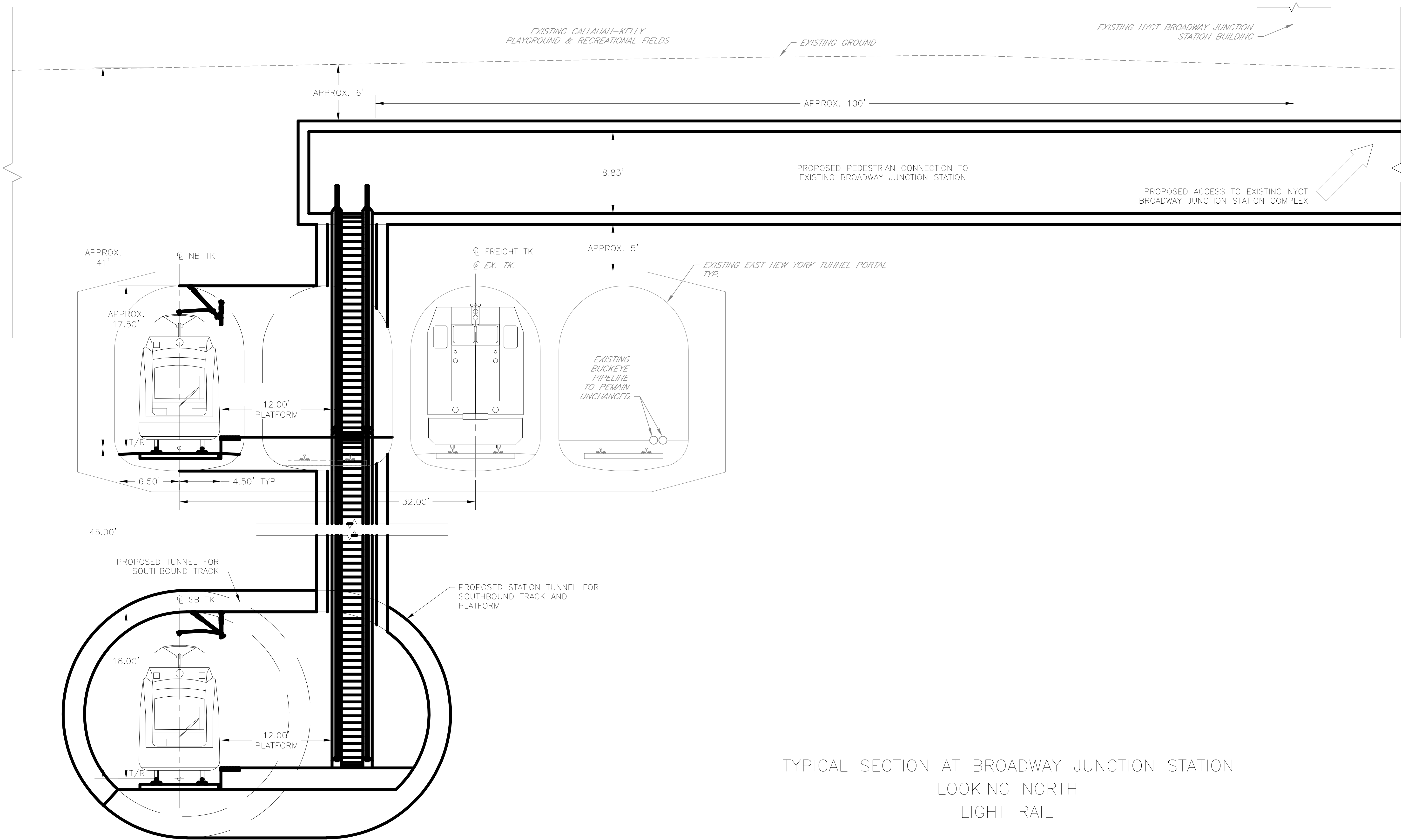
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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020

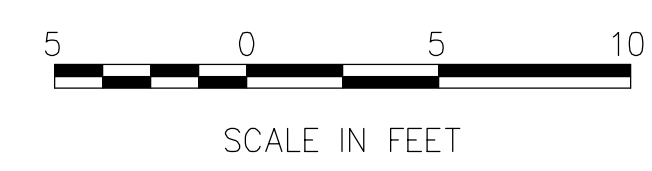


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DRAWING NO:
SCALE: 1" = 5'
SHEET NO: OF

MTA BAY RIDGE CONNECTOR
TYPICAL SECTIONS - ALL MODES
10 OF 15



TYPICAL SECTION AT BROADWAY JUNCTION STATION
LOOKING NORTH
LIGHT RAIL



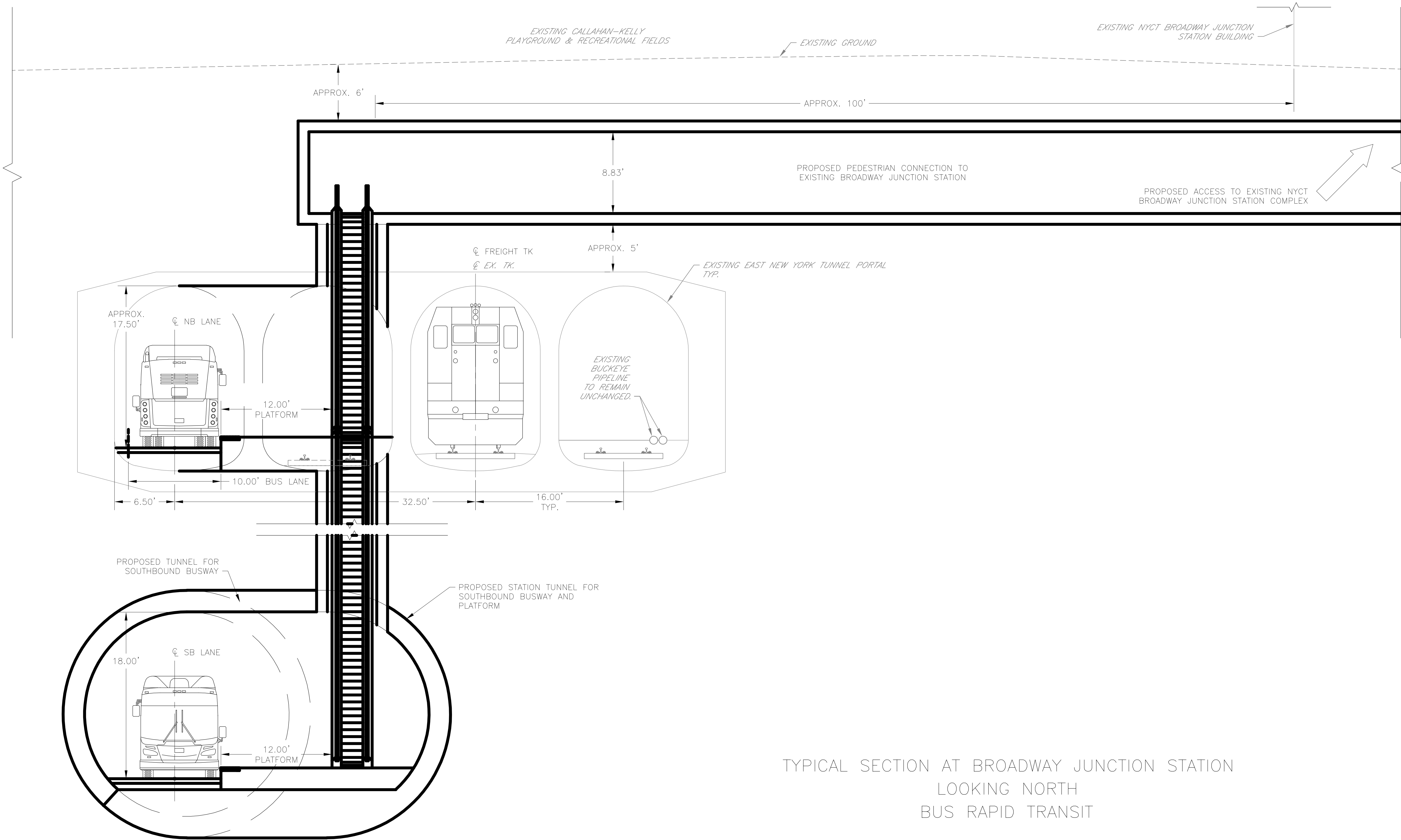
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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020

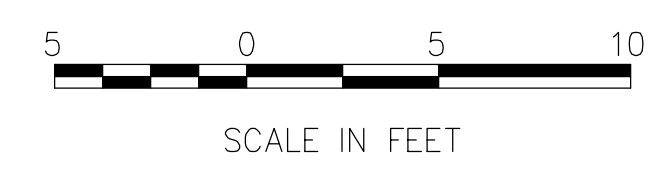


PROJECT NO:
DRAWING NO:
SCALE: 1" = 5'
SHEET NO: 11 OF 15 OF

MTA BAY RIDGE CONNECTOR
TYPICAL SECTIONS - ALL MODES



TYPICAL SECTION AT BROADWAY JUNCTION STATION
 LOOKING NORTH
 BUS RAPID TRANSIT



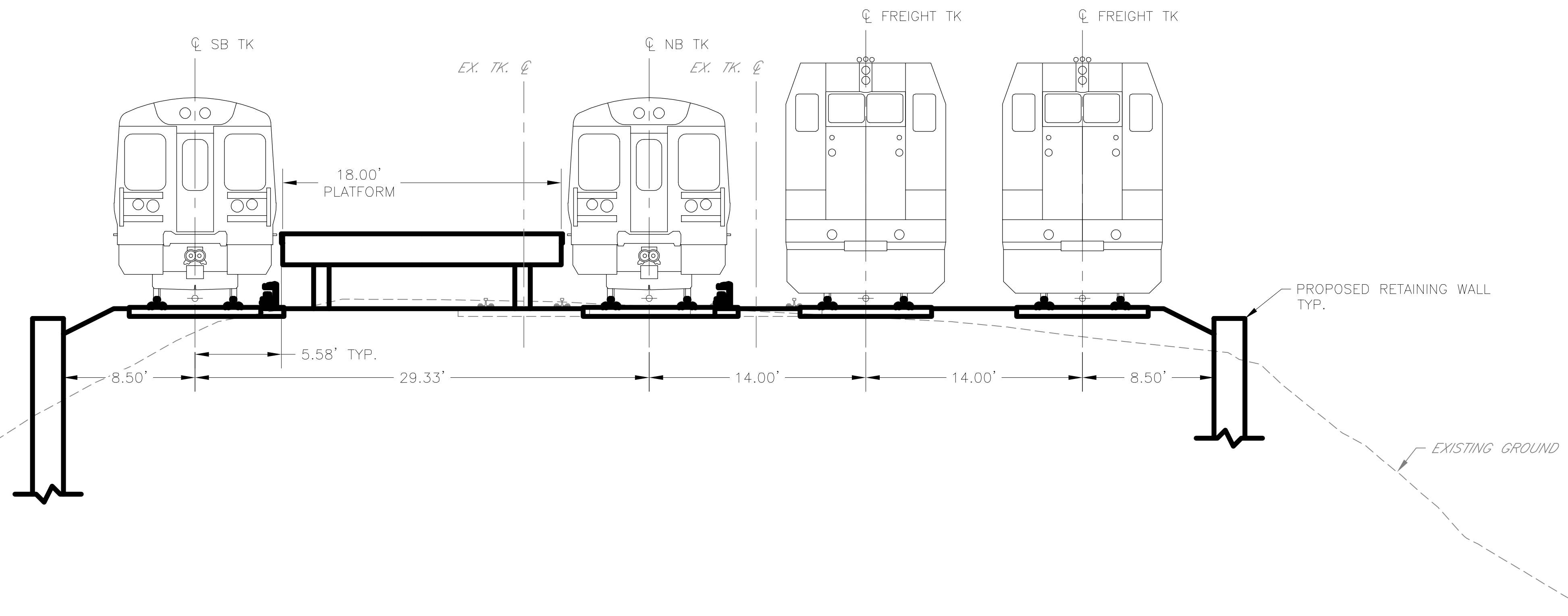
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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
 JJM
 DRAWN BY:
 JJM
 CHECKED BY:
 WVN
 DATE:
 12-17-2020



MTA BAY RIDGE CONNECTOR
 TYPICAL SECTIONS - ALL MODES
 12 OF 15

PROJECT NO:
 DRAWING NO:
 SCALE: 1" = 5'
 SHEET NO: OF



TYPICAL SECTION AT RALPH AVENUE STATION – LOOKING NORTH
COMMUTER RAIL



REV.NO.	DATE	BY	APP BY	DESCRIPTION
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02	12-16-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: W.I.P.
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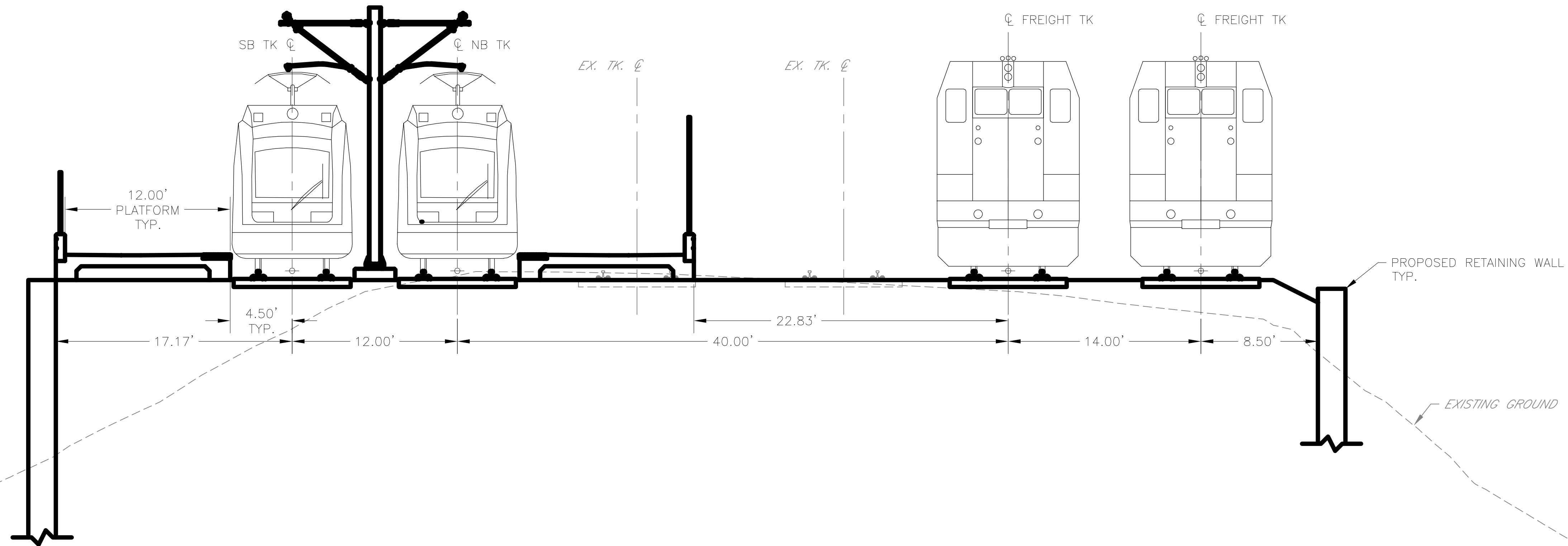
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DATE: 12-17-2020	

AECOM
1700 MARKET STREET
PHILADELPHIA, PA 19103

MTA BAY RIDGE CONNECTOR

TYPICAL SECTIONS - ALL MODES
13 OF 15

PROJECT NO:	
DRAWING NO:	
SCALE:	1" = 5'
SHEET NO:	OF



TYPICAL SECTION AT RALPH AVENUE STATION – LOOKING NORTH
LIGHT RAIL

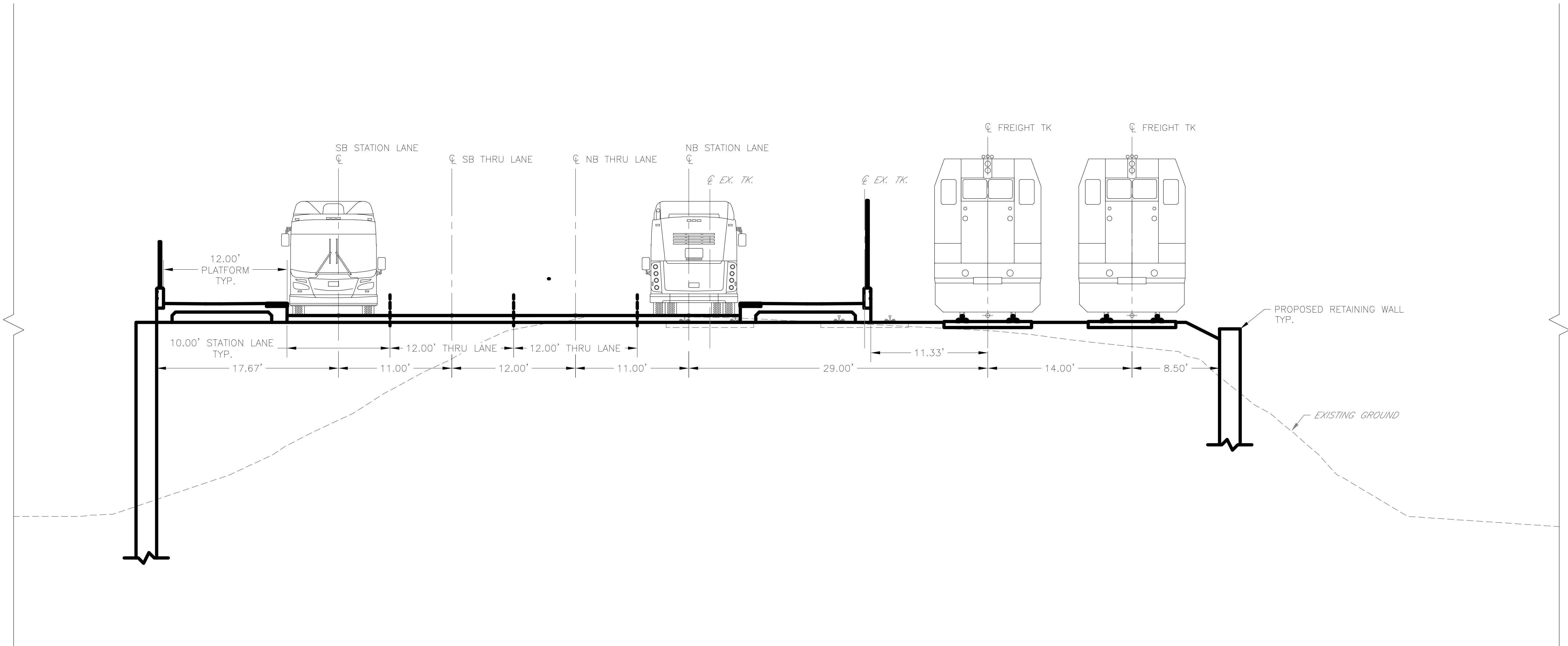


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03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020



MTA BAY RIDGE CONNECTOR TYPICAL SECTIONS - ALL MODES 14 OF 15	PROJECT NO:
	DRAWING NO:
SCALE: 1" = 5'	
SHEET NO: OF	



TYPICAL SECTION AT RALPH AVENUE STATION – LOOKING NORTH
BUS RAPID TRANSIT



REV.NO.	DATE	BY	APP BY	DESCRIPTION
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02	12-16-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTS: W.I.P.
03	12-17-20	JJM	WVN	TASK 10 - ANALYSIS OF FEASIBLE ALTERNATIVES

DESIGNED BY:
JJM
DRAWN BY:
JJM
CHECKED BY:
WVN
DATE:
12-17-2020



MTA BAY RIDGE CONNECTOR
TYPICAL SECTIONS - ALL MODES
15 OF 15

PROJECT NO:
DRAWING NO:
SCALE: 1" = 5'
SHEET NO: OF



Appendix 2.3: Property Impact Mapset

Prepared for:

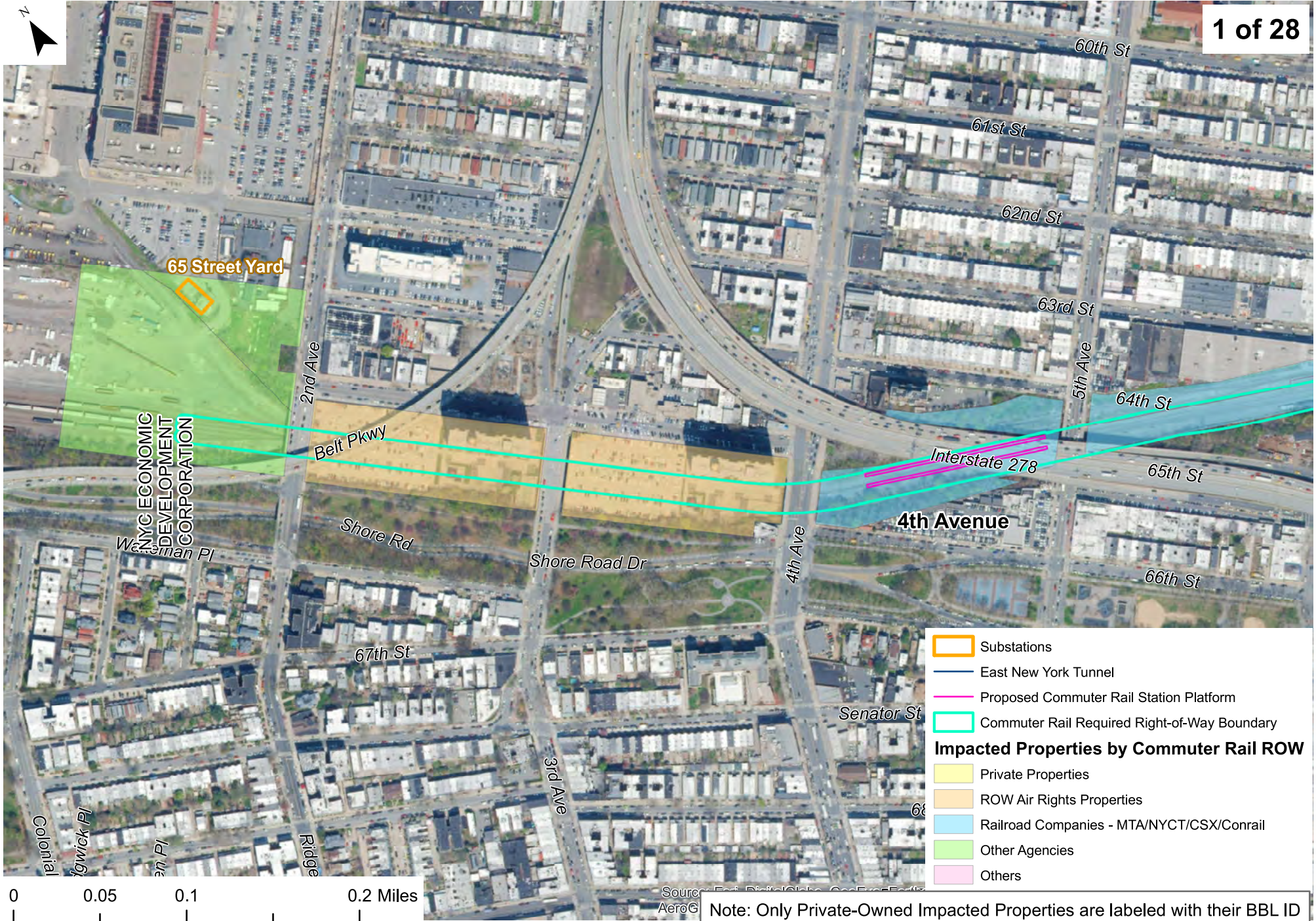
NY Metropolitan Transportation Authority
Transportation Systems Analysis

Prepared by:

The AECOM Team
AECOM USA, Inc.
WSP
Integrated Systems Resources, Inc.
Infinity Consulting Corp.
Sobers Consulting, LLC

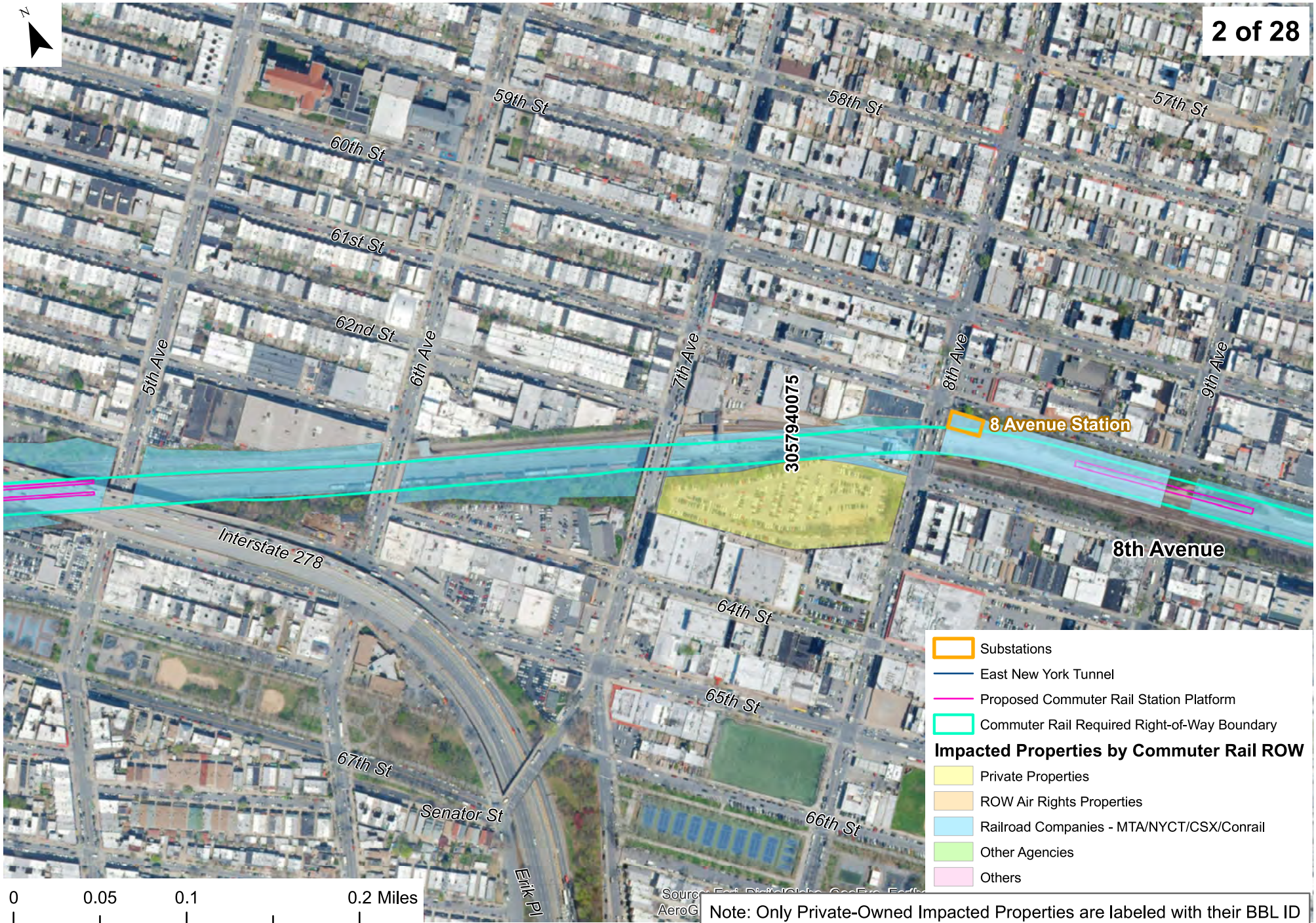


January 2021



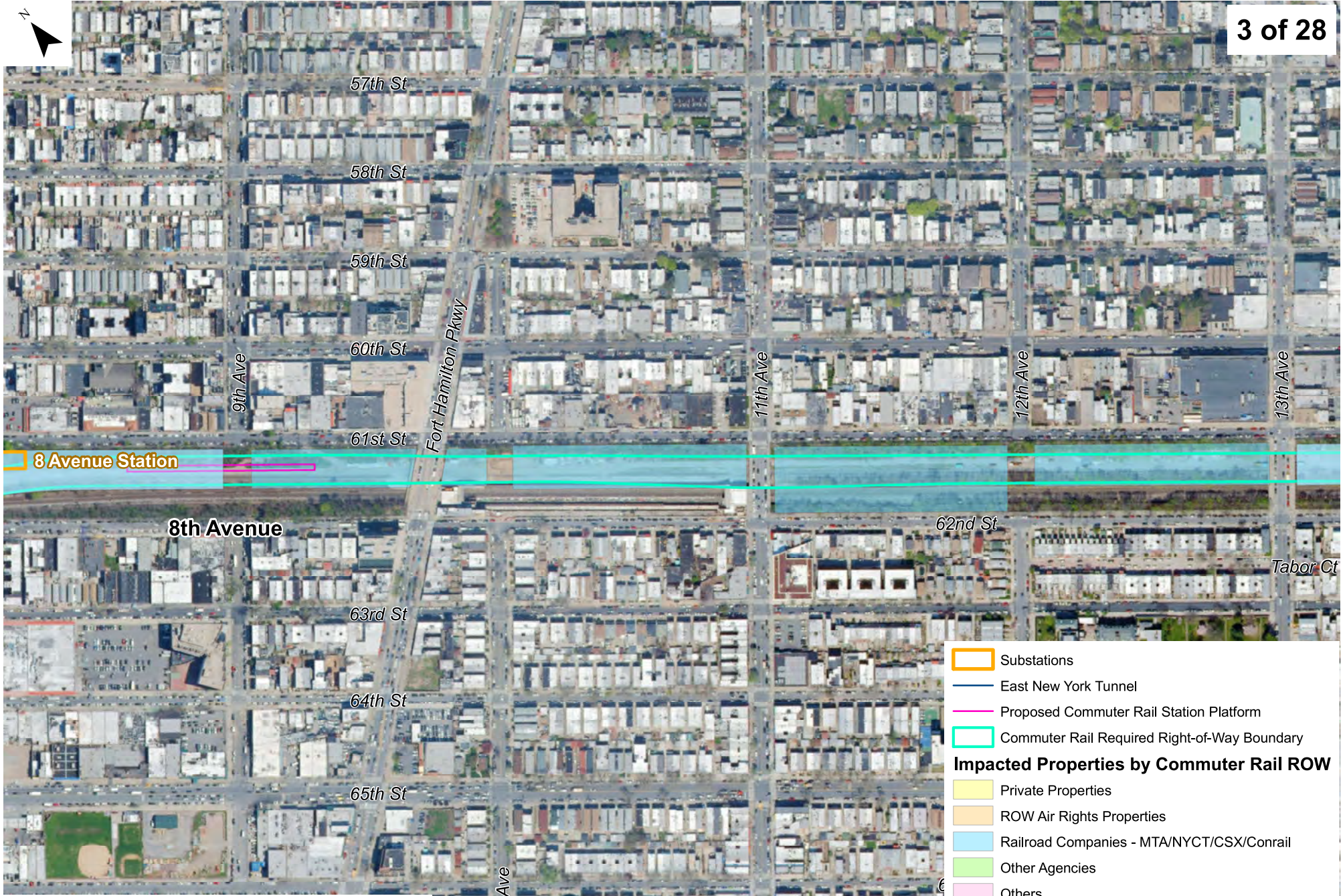
- Substations
 - East New York Tunnel
 - Proposed Commuter Rail Station Platform
 - Commuter Rail Required Right-of-Way Boundary
- Impacted Properties by Commuter Rail ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID



- Substations
 - East New York Tunnel
 - Proposed Commuter Rail Station Platform
 - Commuter Rail Required Right-of-Way Boundary
- Impacted Properties by Commuter Rail ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID



- Substations
- East New York Tunnel
- Proposed Commuter Rail Station Platform
- Commuter Rail Required Right-of-Way Boundary

Impacted Properties by Commuter Rail ROW

- Private Properties
- ROW Air Rights Properties
- Railroad Companies - MTA/NYCT/CSX/Conrail
- Other Agencies
- Others



Source: Aerial Imagery

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID



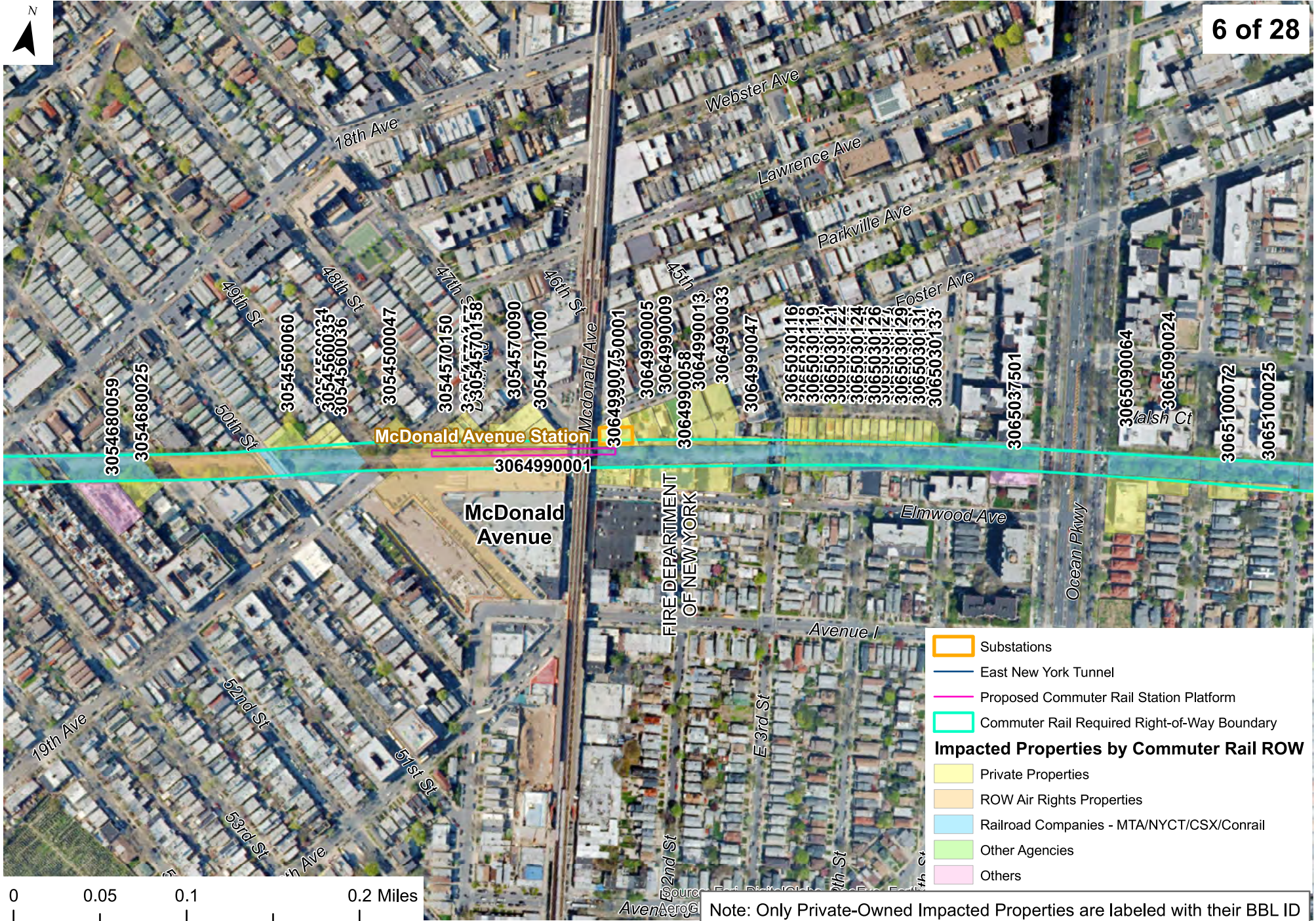


- Substations
 - East New York Tunnel
 - Proposed Commuter Rail Station Platform
 - Commuter Rail Required Right-of-Way Boundary
- Impacted Properties by Commuter Rail ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

0 0.05 0.1 0.2 Miles

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID





- Substations
- East New York Tunnel
- Proposed Commuter Rail Station Platform
- Commuter Rail Required Right-of-Way Boundary

Impacted Properties by Commuter Rail ROW

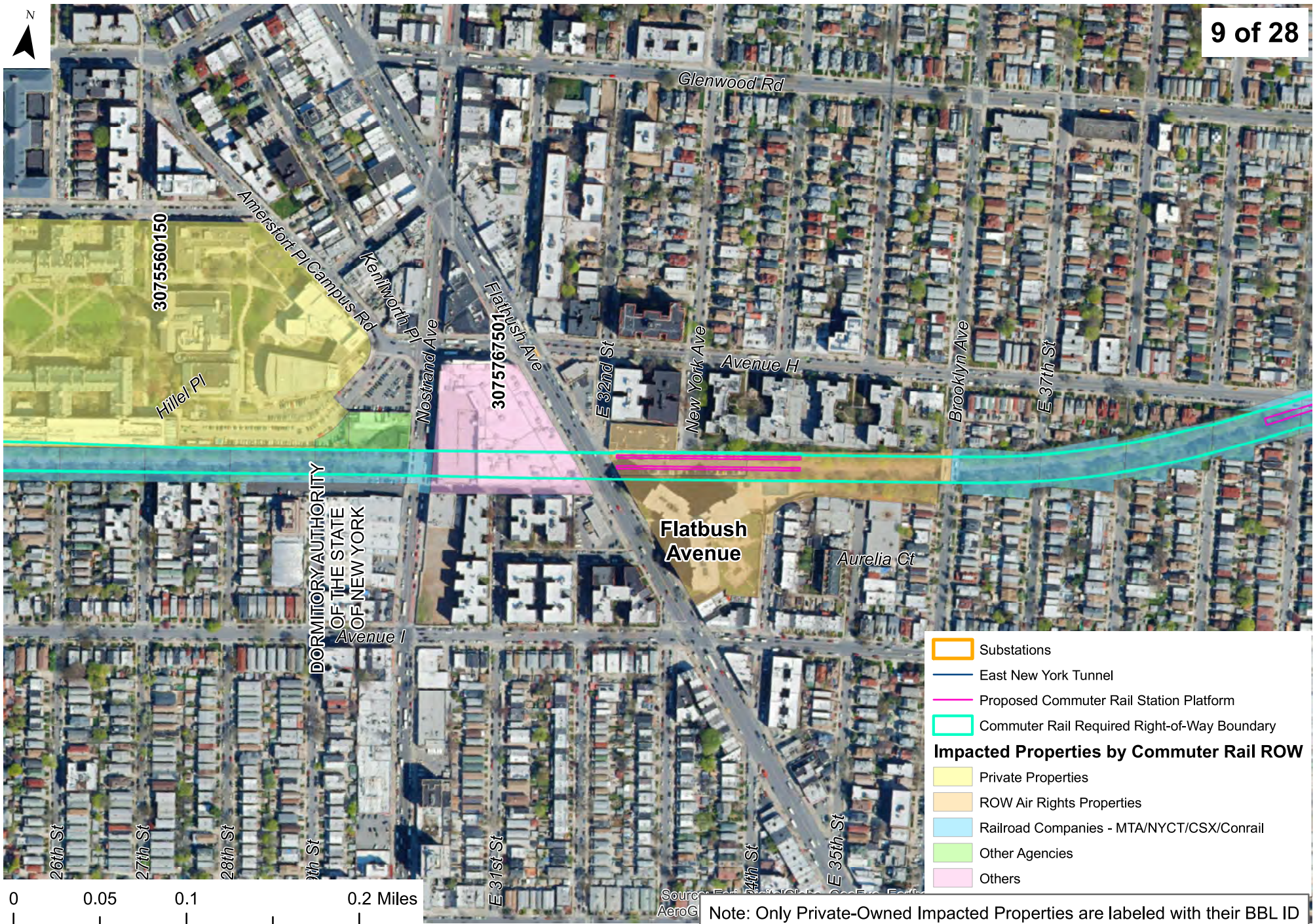
- Private Properties
- ROW Air Rights Properties
- Railroad Companies - MTA/NYCT/CSX/Conrail
- Other Agencies
- Others

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID



Note: Only Private-Owned Impacted Properties are labeled with their BBL ID

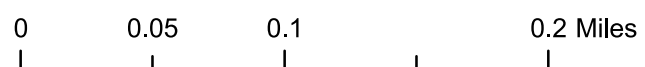













- Substations
 - East New York Tunnel
 - Proposed Commuter Rail Station Platform
 - Commuter Rail Required Right-of-Way Boundary
- Impacted Properties by Commuter Rail ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

0 0.05 0.1 0.2 Miles

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID

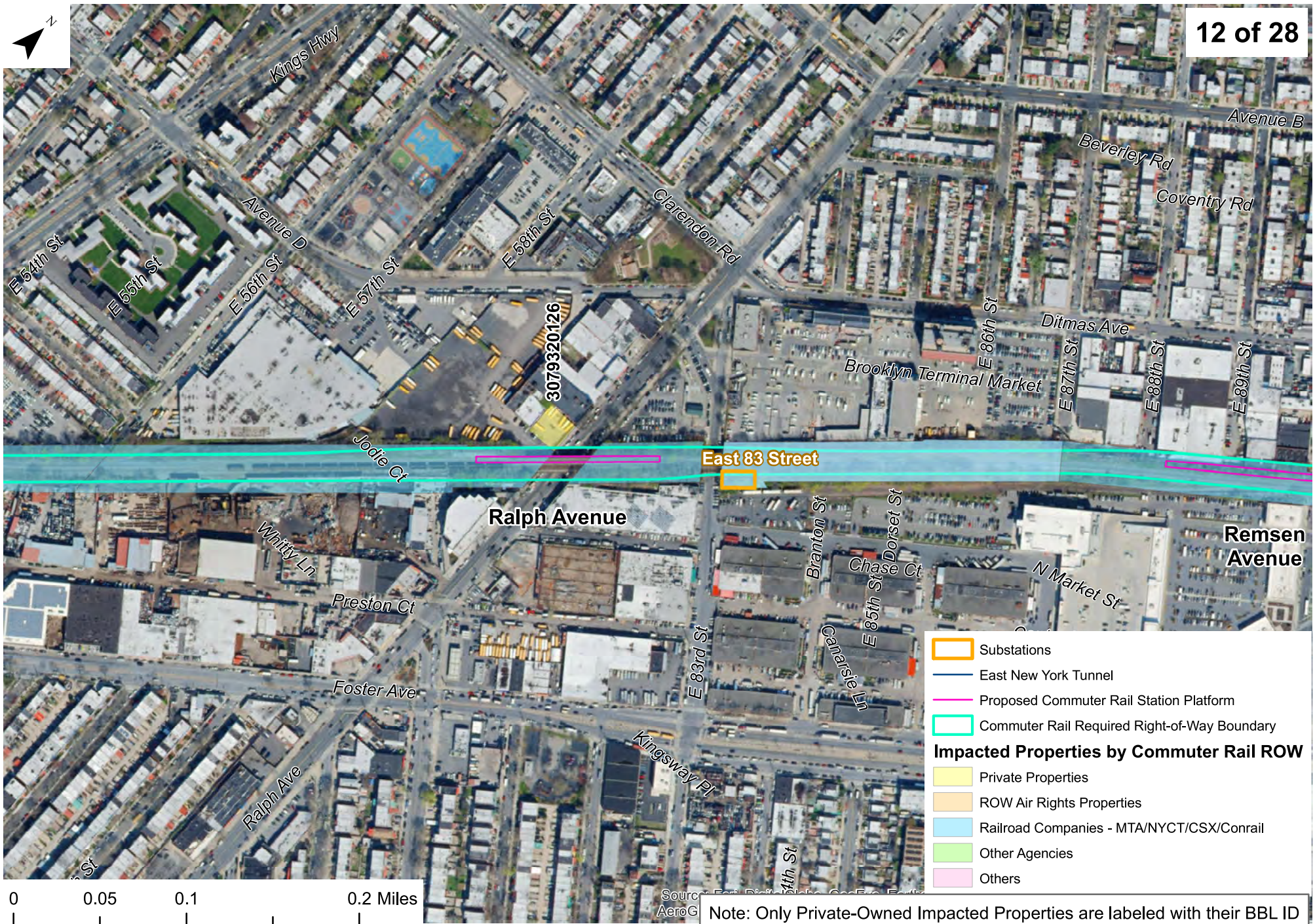











-  Substations
-  East New York Tunnel
-  Proposed Commuter Rail Station Platform
-  Commuter Rail Required Right-of-Way Boundary
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-  Other Agencies
-  Others

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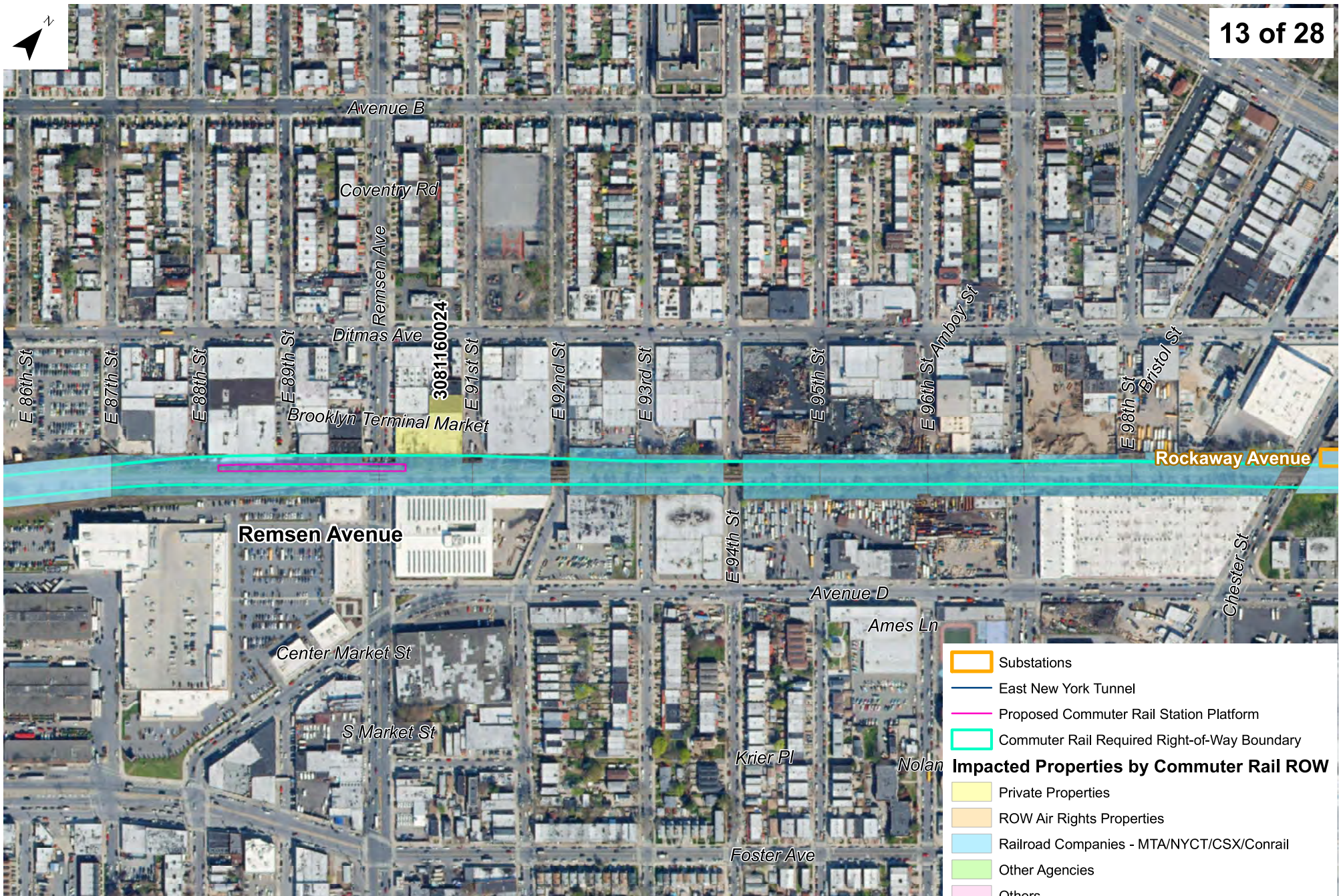
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-  Substations
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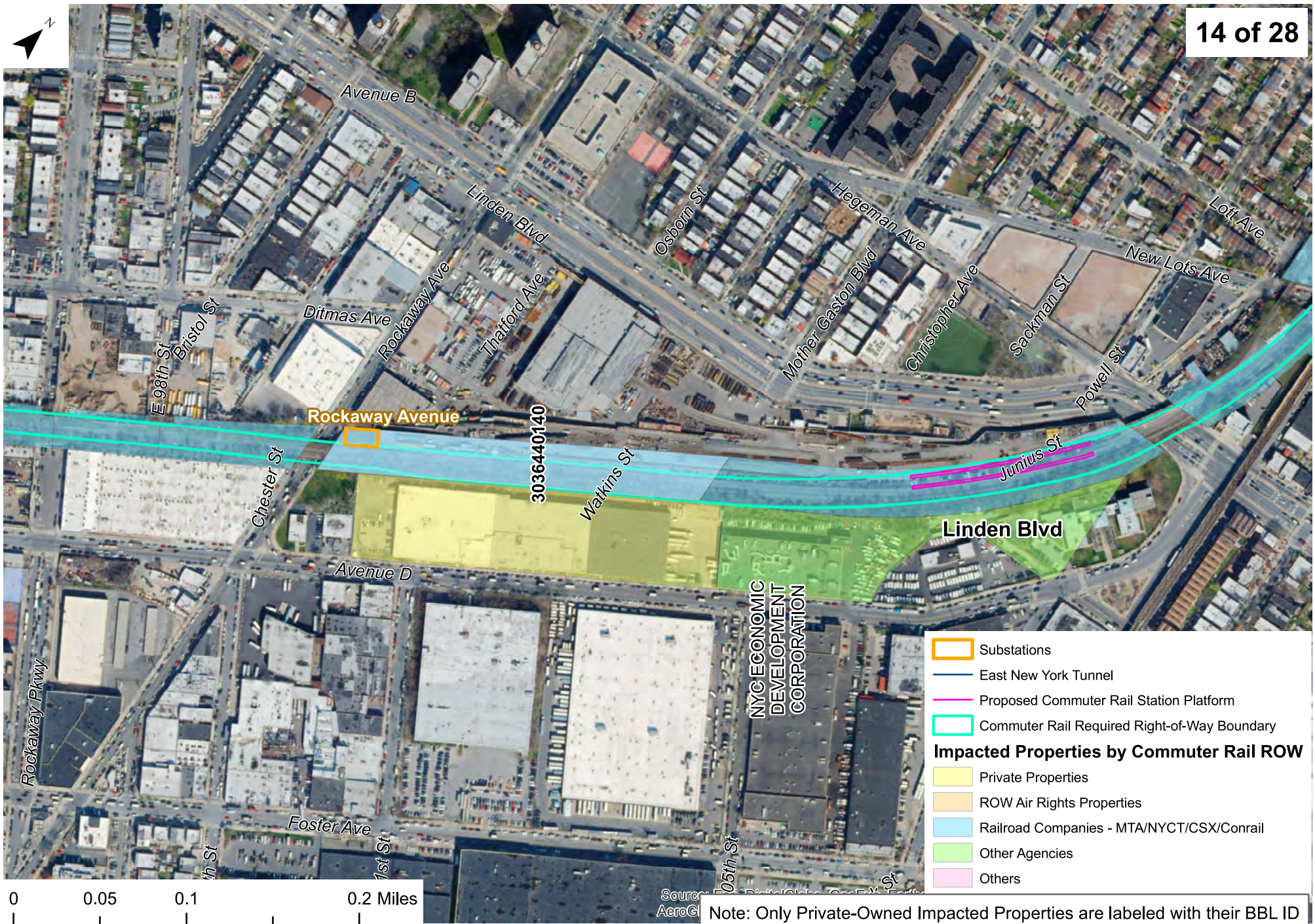


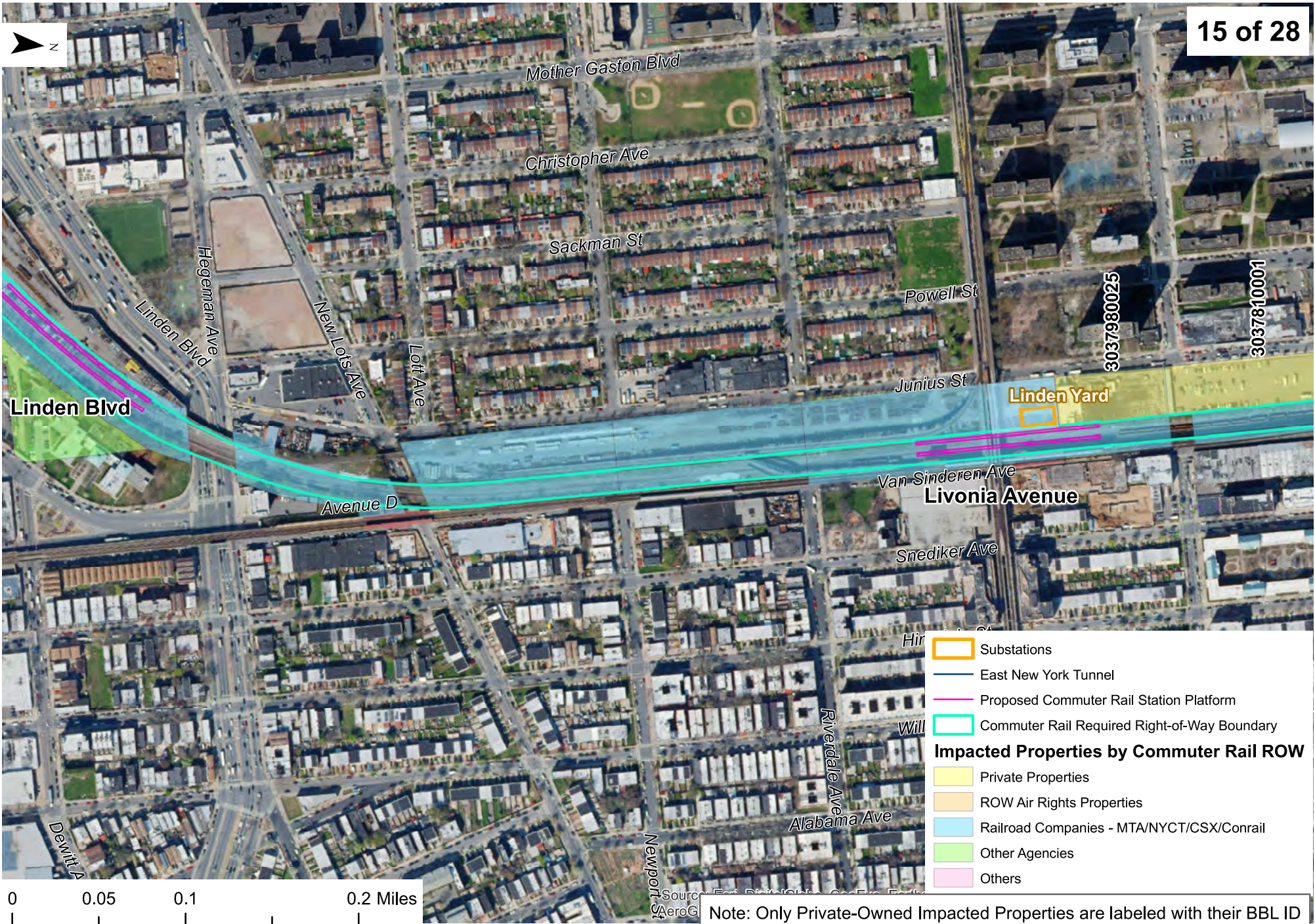
- Substations
- East New York Tunnel
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- Private Properties
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- Other Agencies
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




0 0.05 0.1 0.2 Miles

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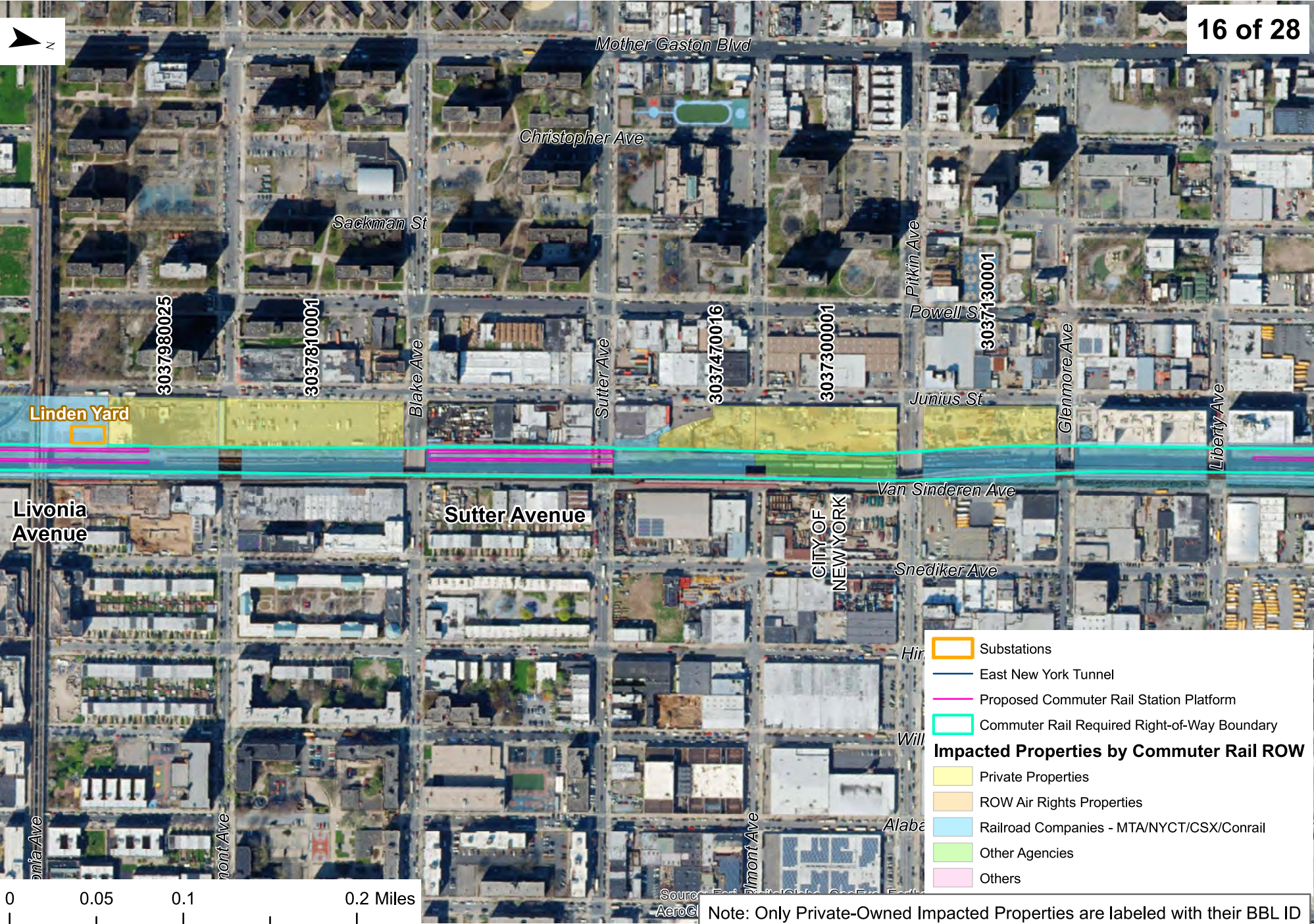


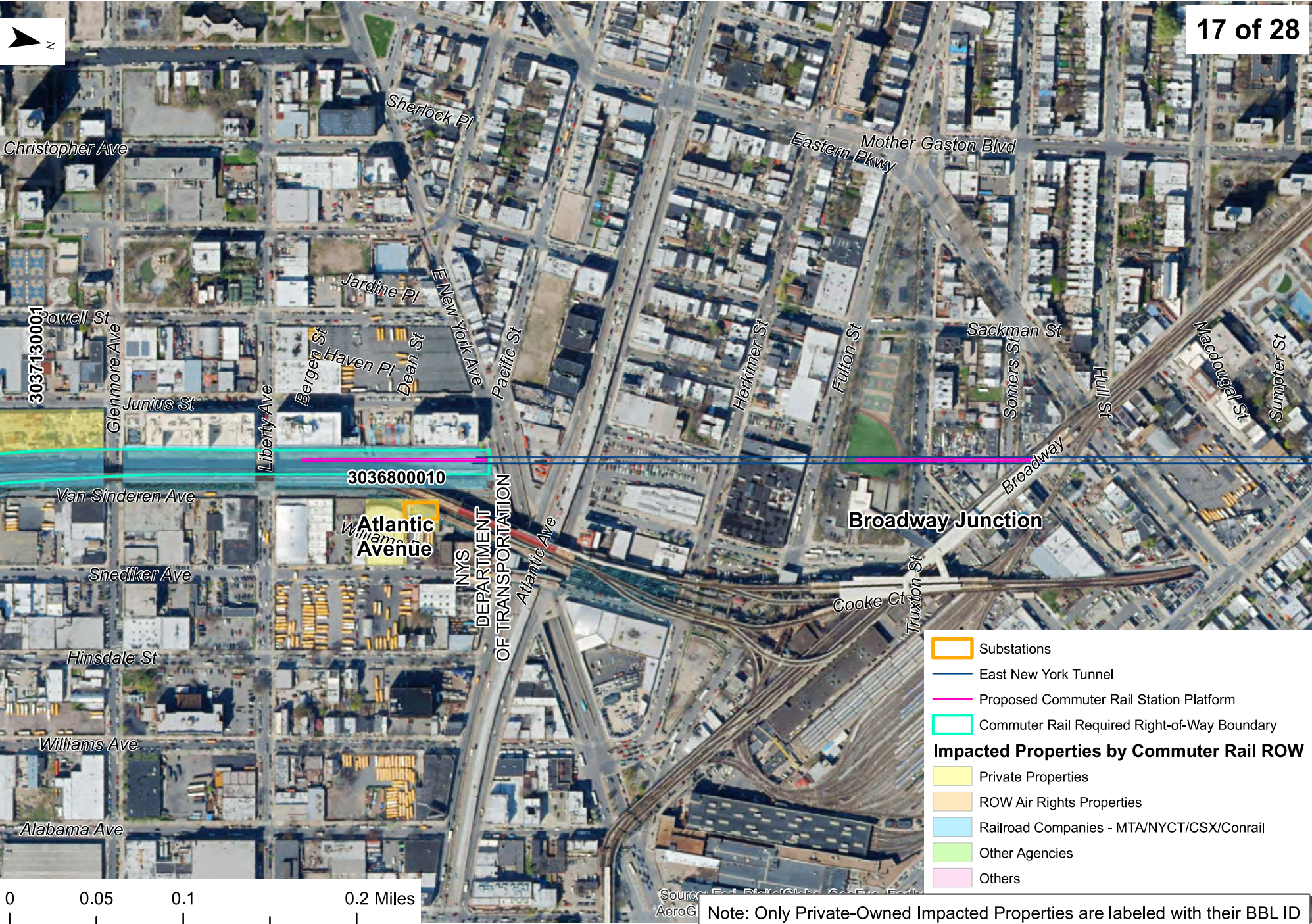


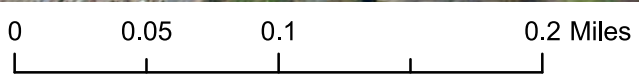


-  Substations
-  East New York Tunnel
-  Proposed Commuter Rail Station Platform
-  Commuter Rail Required Right-of-Way Boundary
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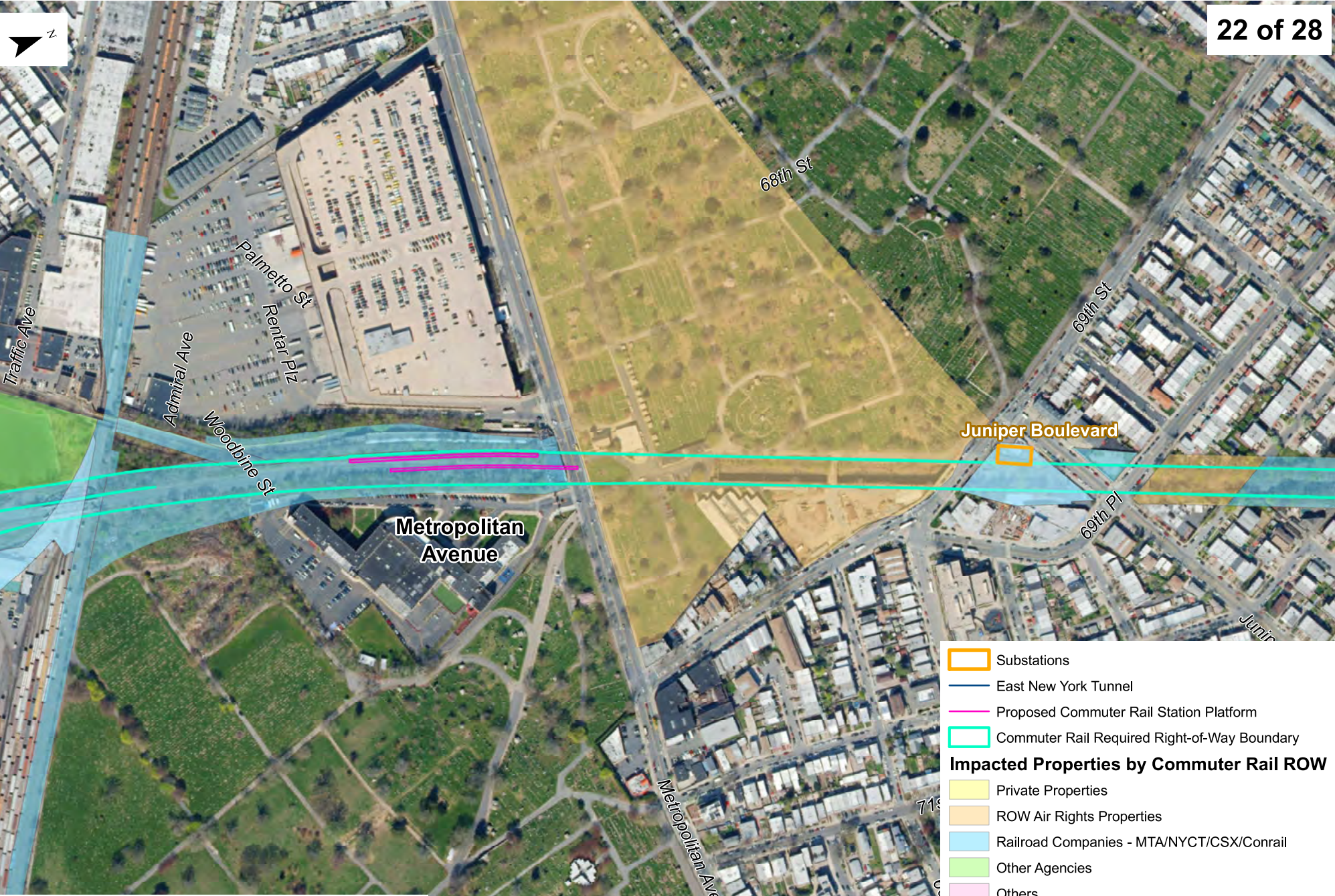
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- Substations
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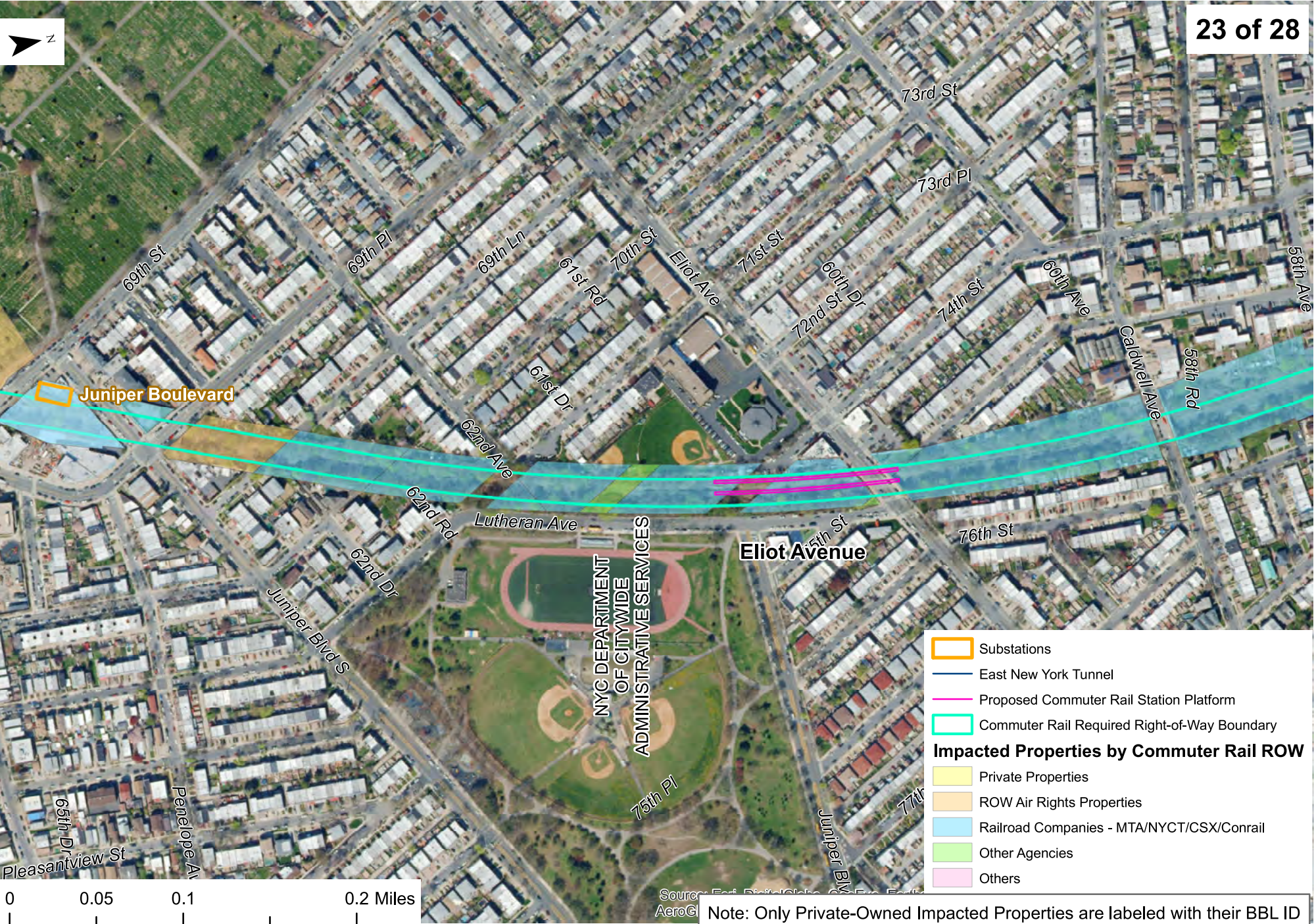


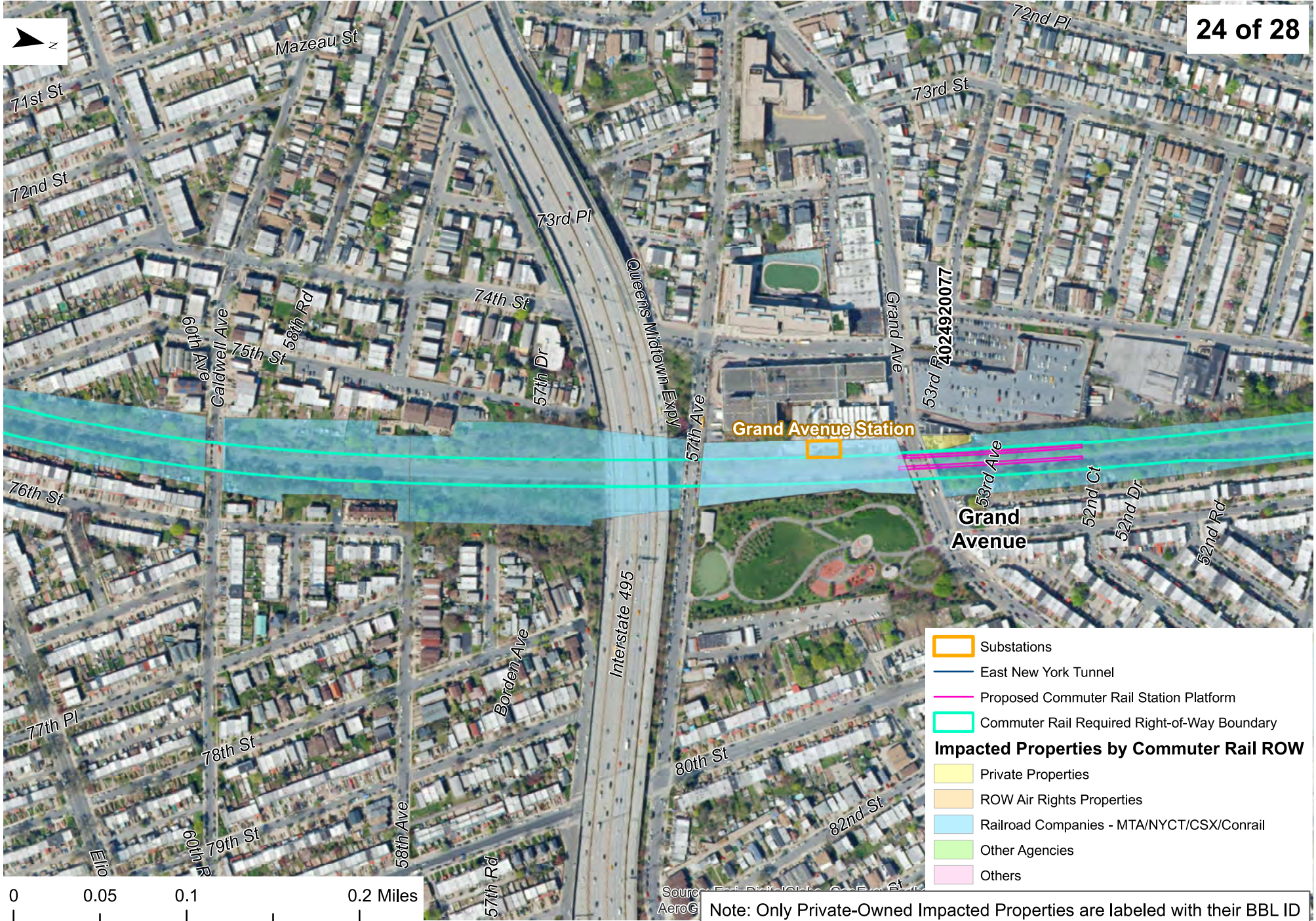


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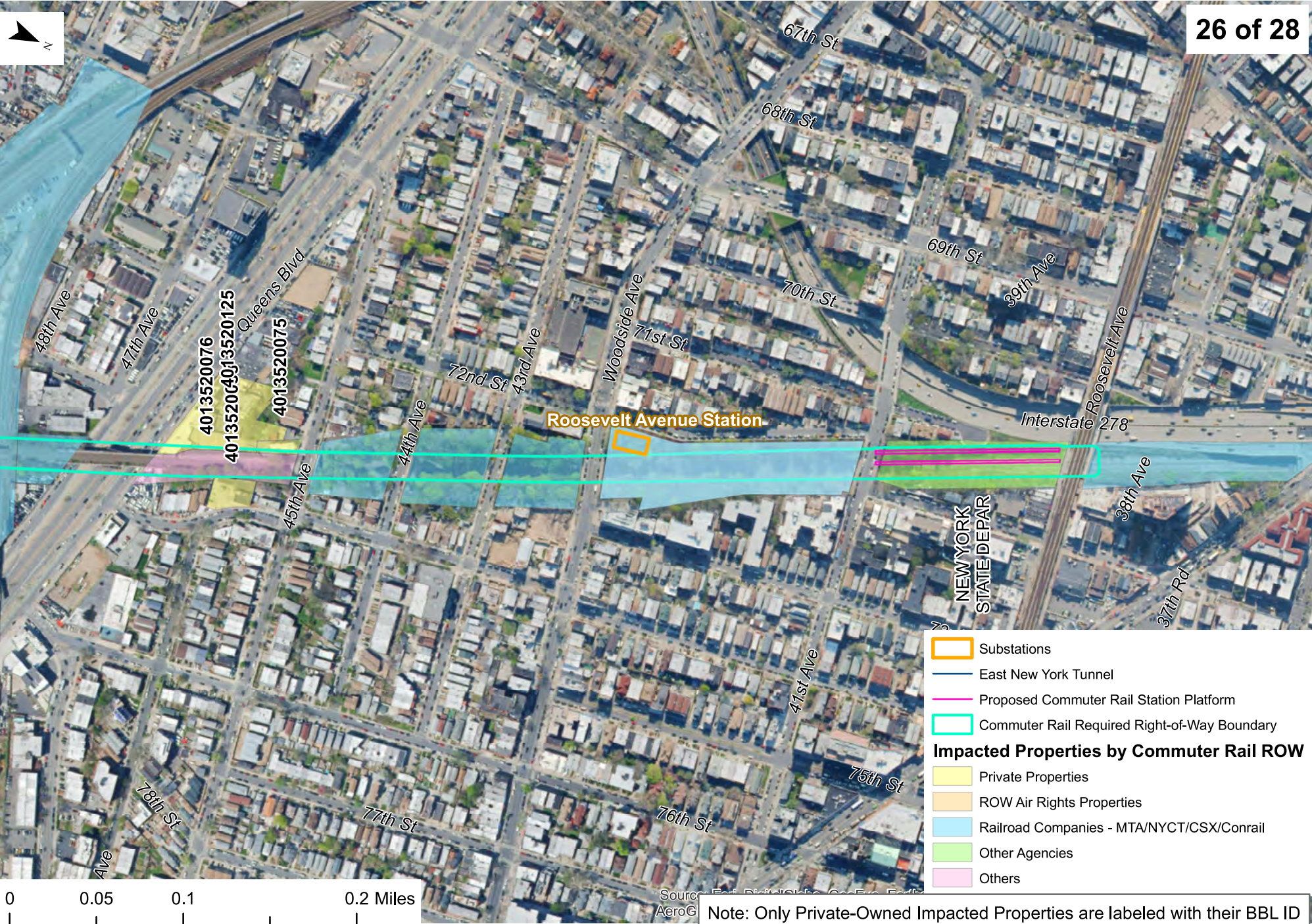


- Substations
- East New York Tunnel
- Proposed Commuter Rail Station Platform
- Commuter Rail Required Right-of-Way Boundary

Impacted Properties by Commuter Rail ROW

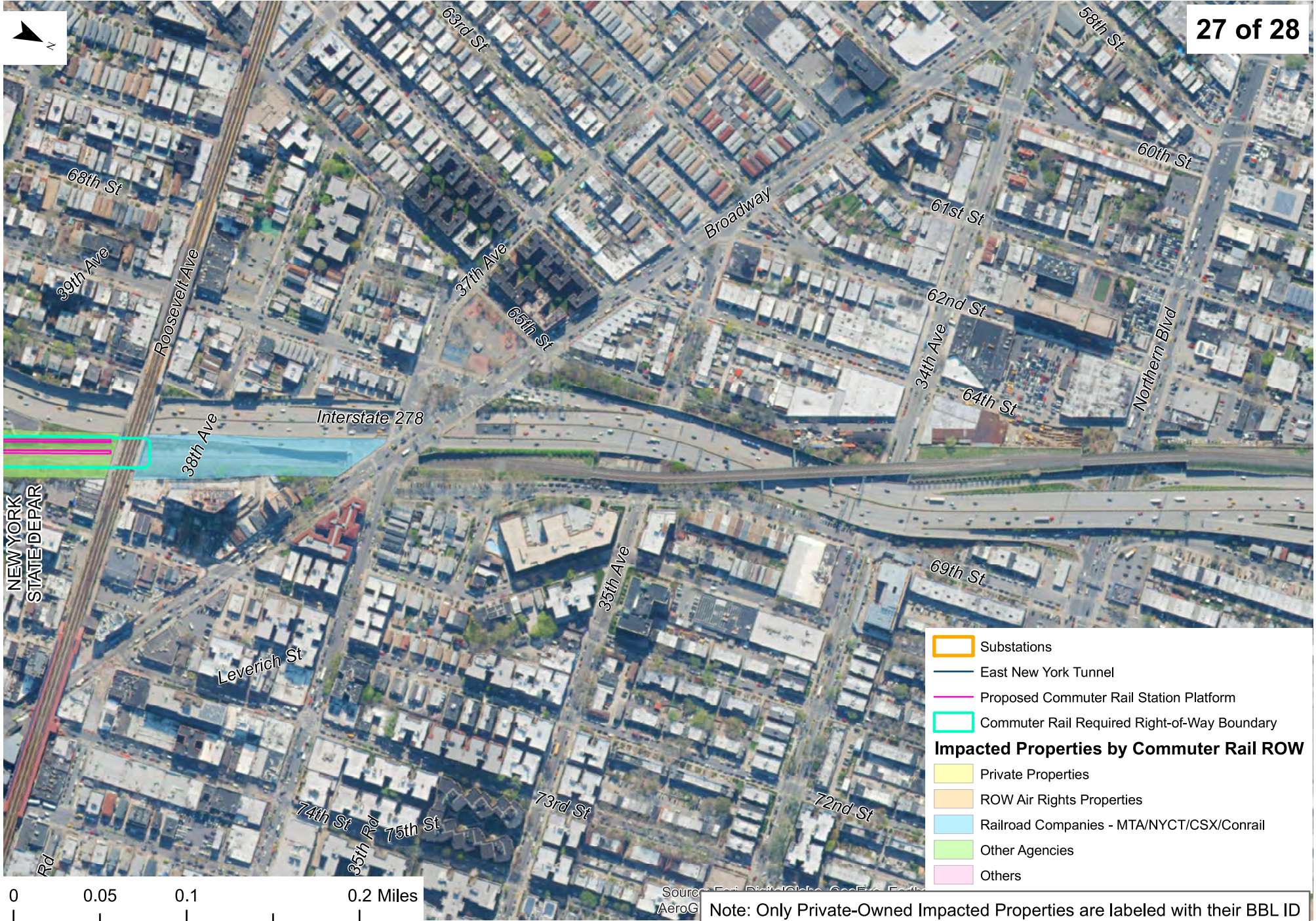
- Private Properties
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- Other Agencies
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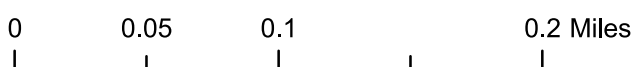
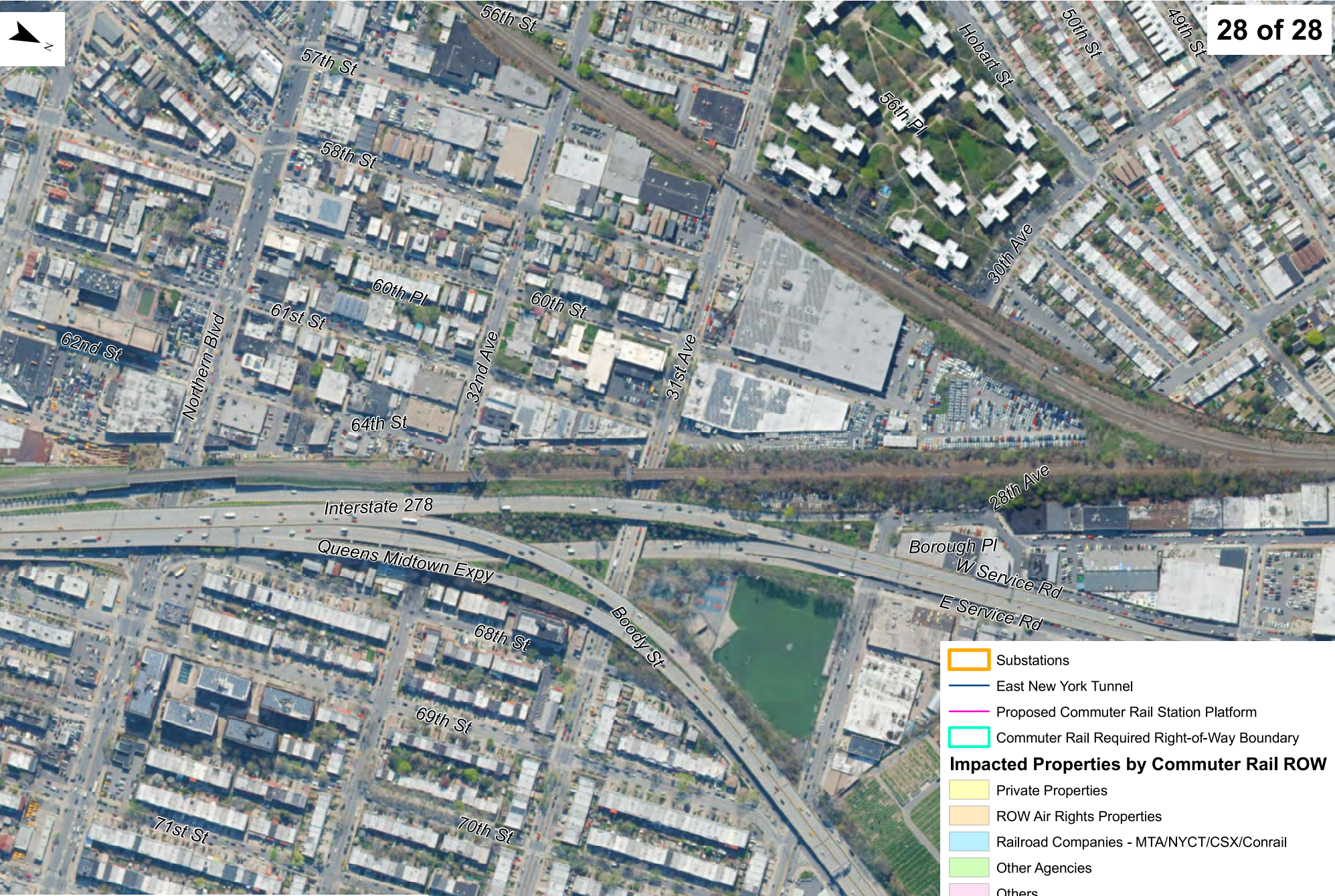


- Substations
- East New York Tunnel
- Proposed Commuter Rail Station Platform
- Commuter Rail Required Right-of-Way Boundary

Impacted Properties by Commuter Rail ROW

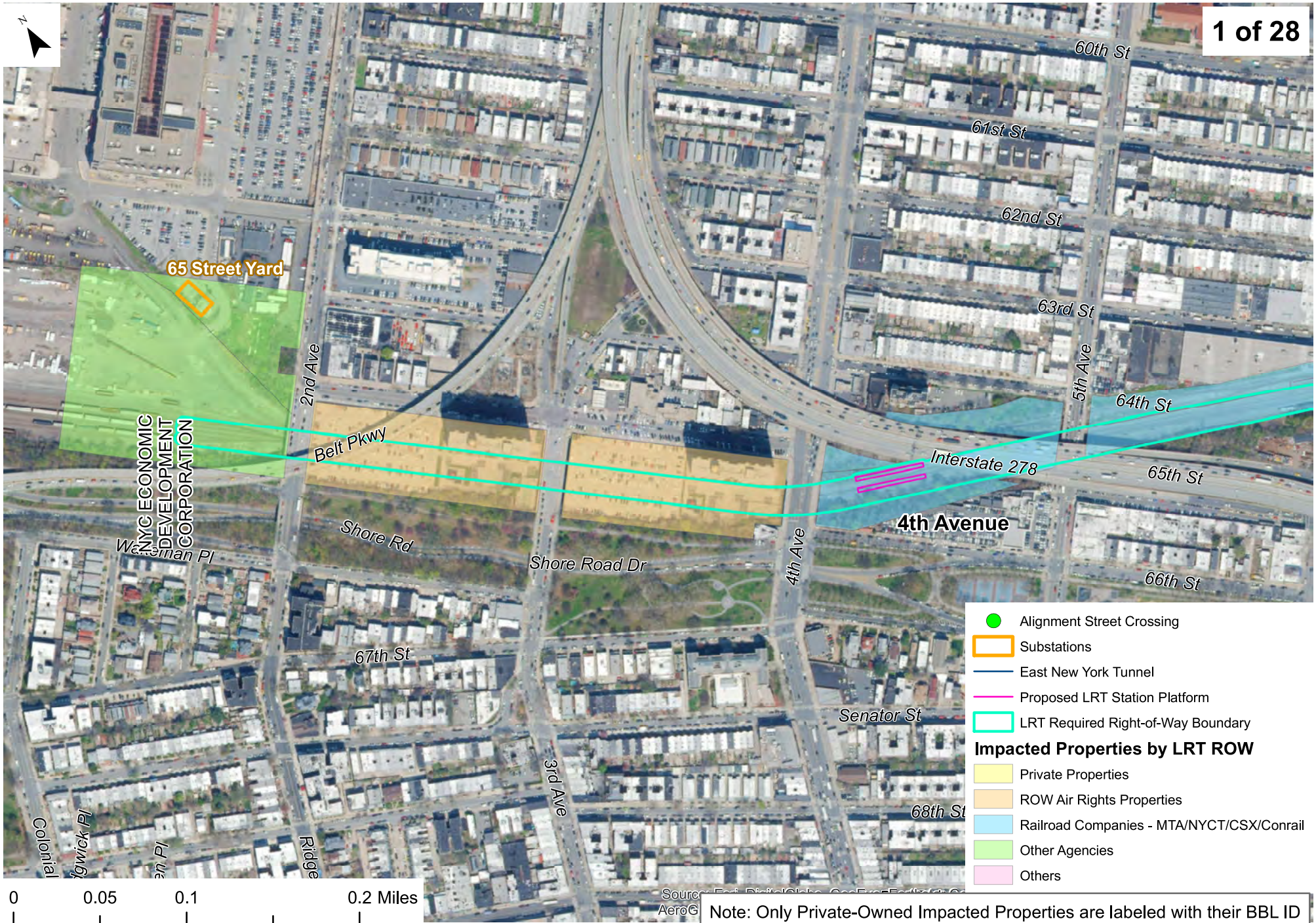
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Source: Esri, DigitalGlobe, GeoEye, Earthstar, AeroG

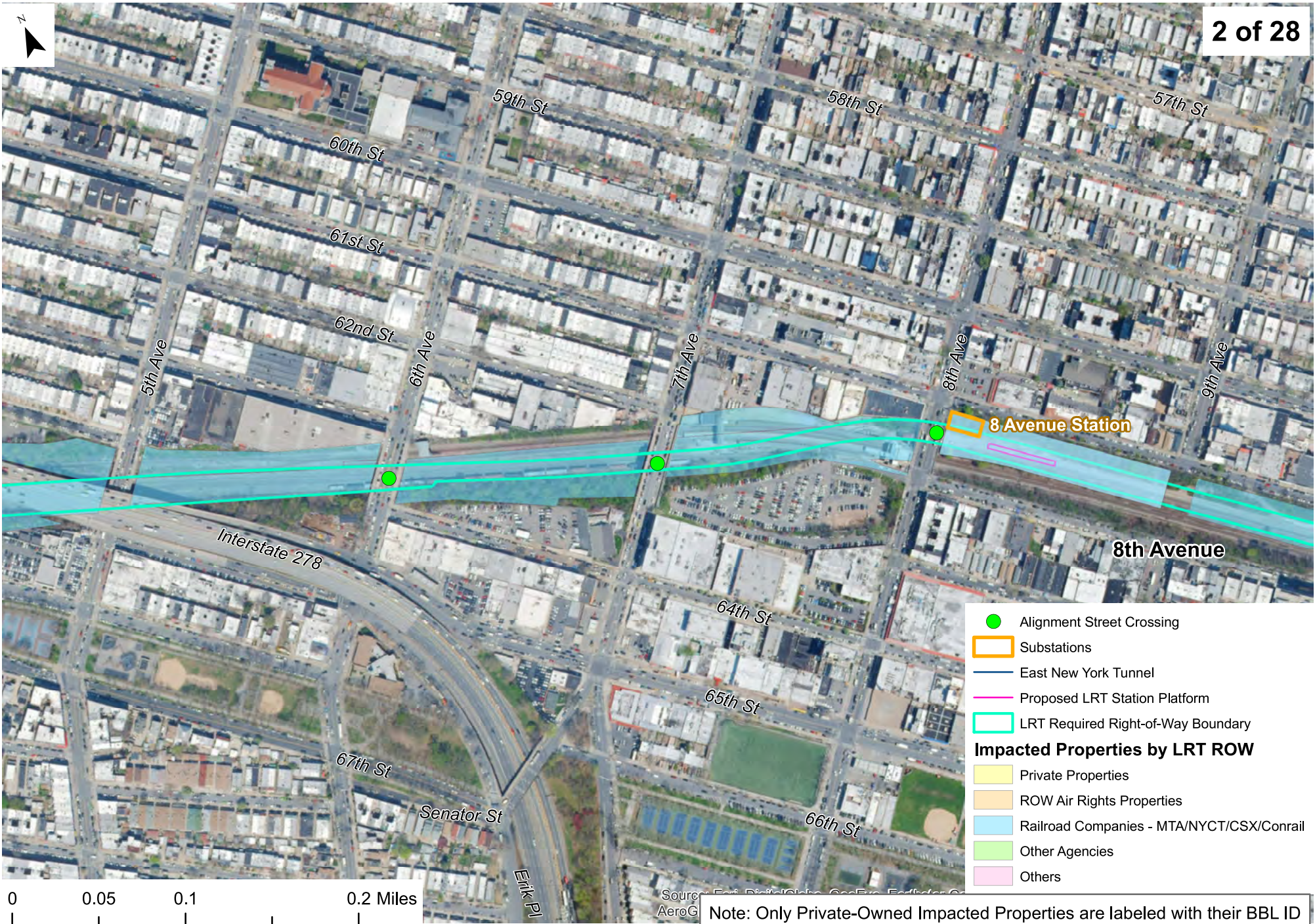
Note: Only Private-Owned Impacted Properties are labeled with their BBL ID



- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

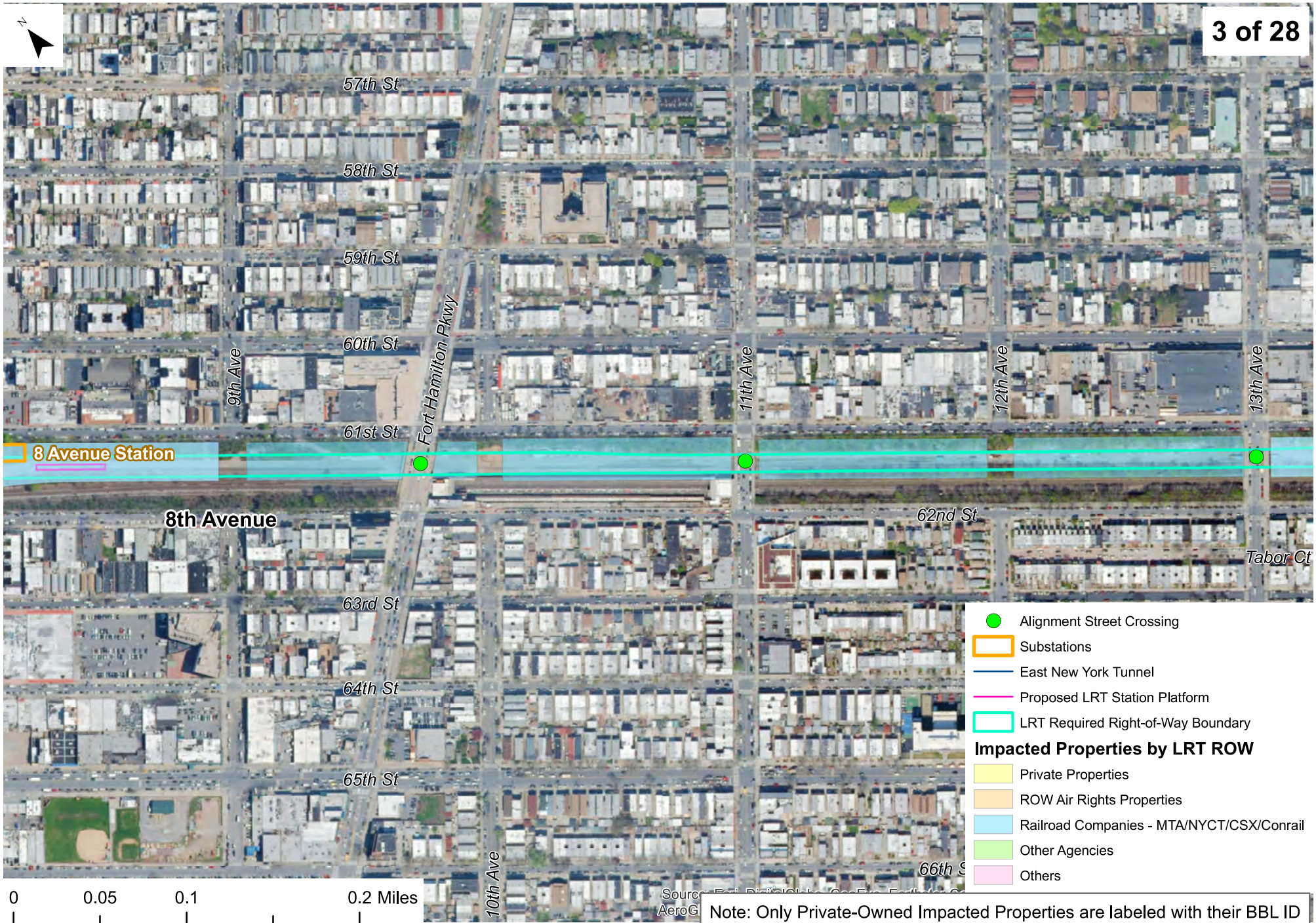
Note: Only Private-Owned Impacted Properties are labeled with their BBL ID





- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID



- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others



- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

0 0.05 0.1 0.2 Miles

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID





- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID

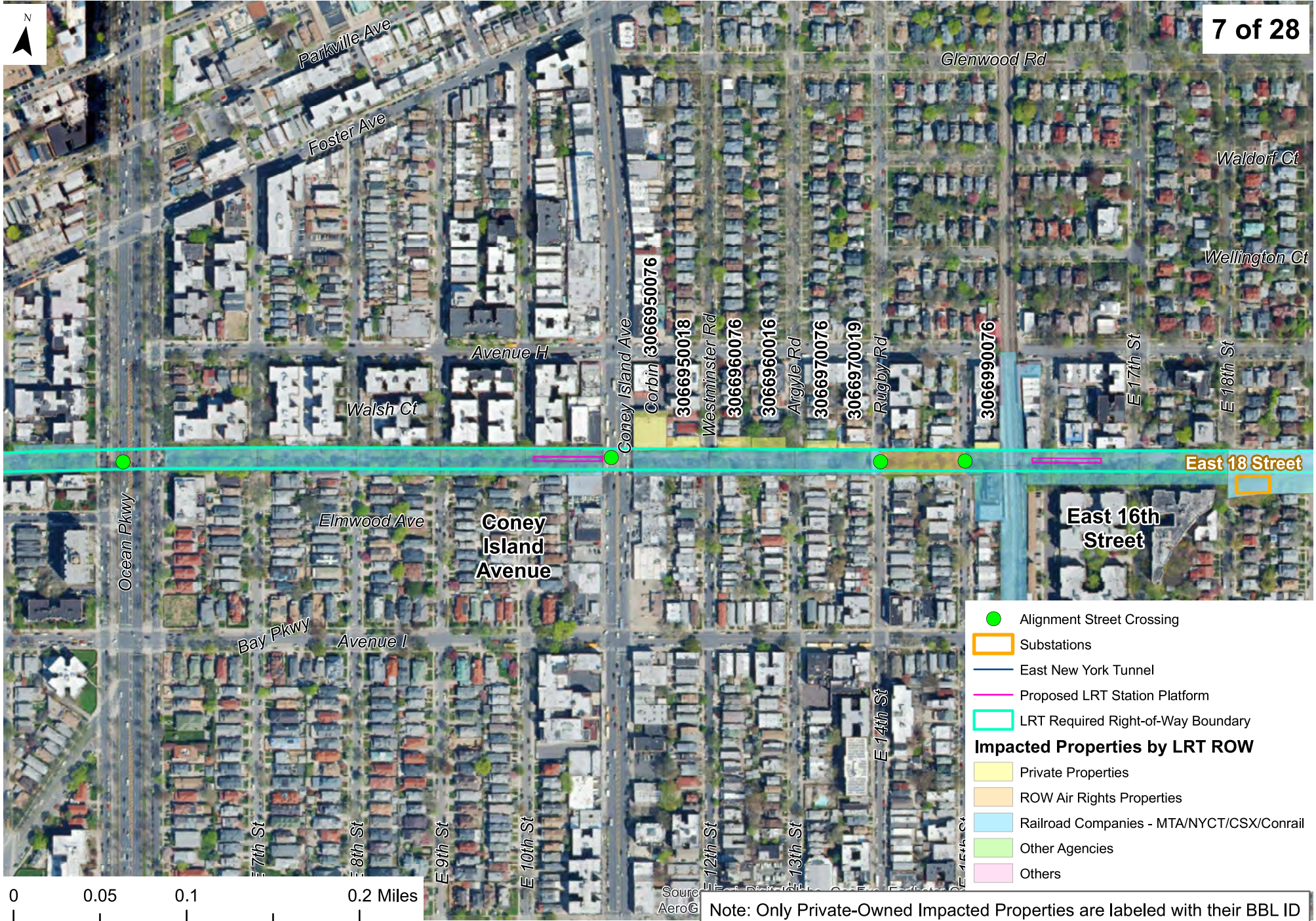


- Alignment Street Crossing
- Substations
- East New York Tunnel
- Proposed LRT Station Platform
- LRT Required Right-of-Way Boundary

Impacted Properties by LRT ROW

- Private Properties
- ROW Air Rights Properties
- Railroad Companies - MTA/NYCT/CSX/Conrail
- Other Agencies
- Others

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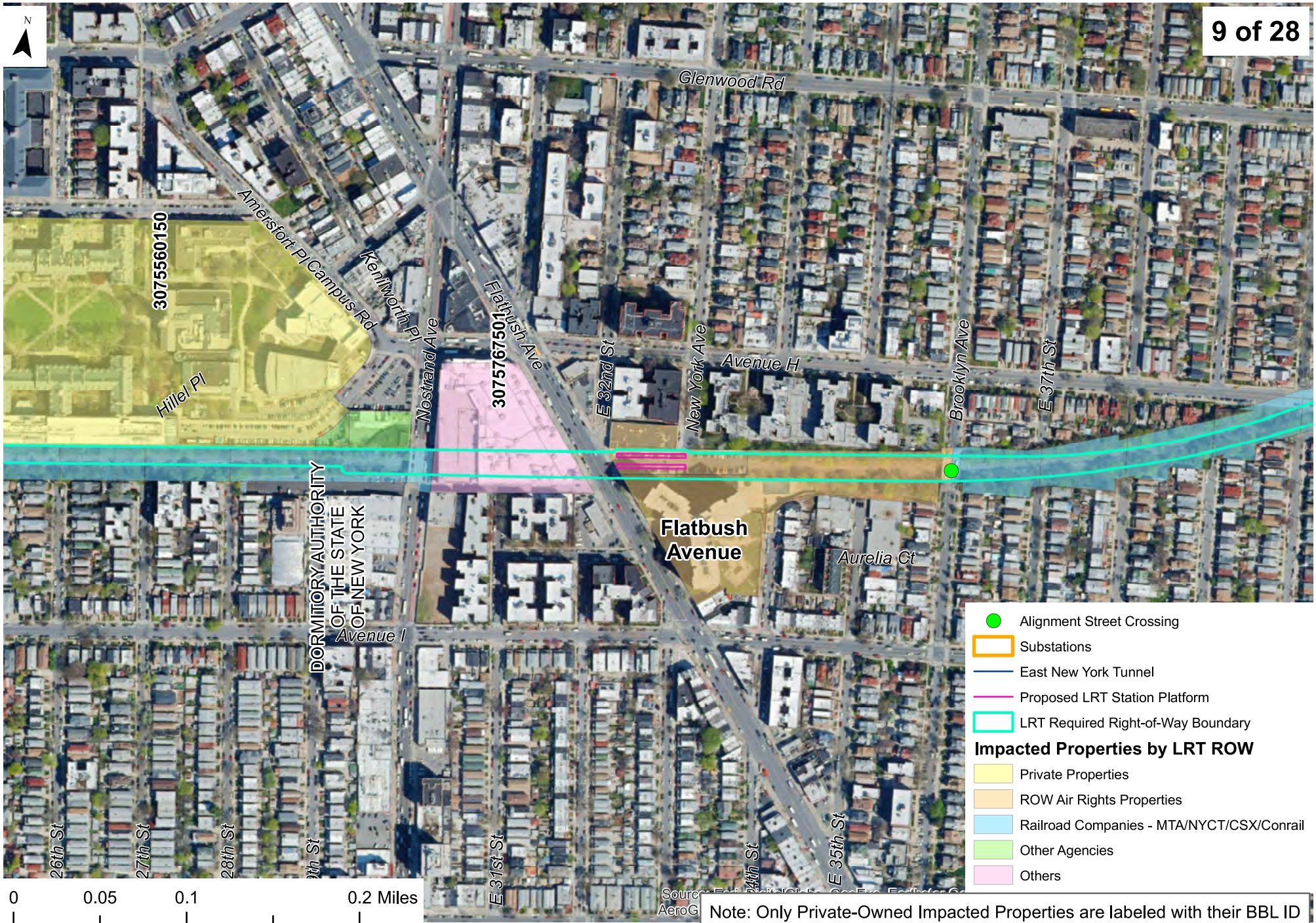


- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

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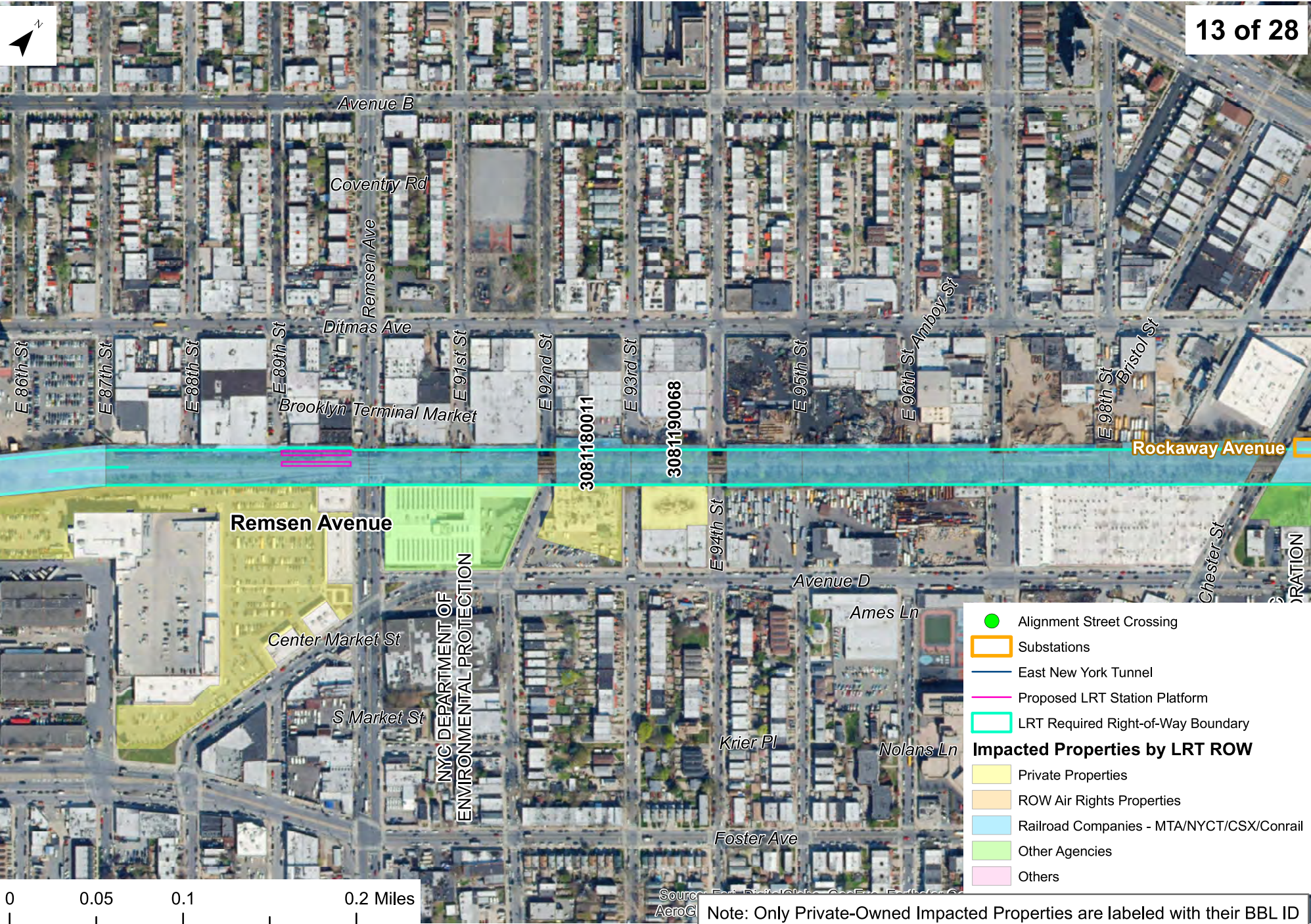


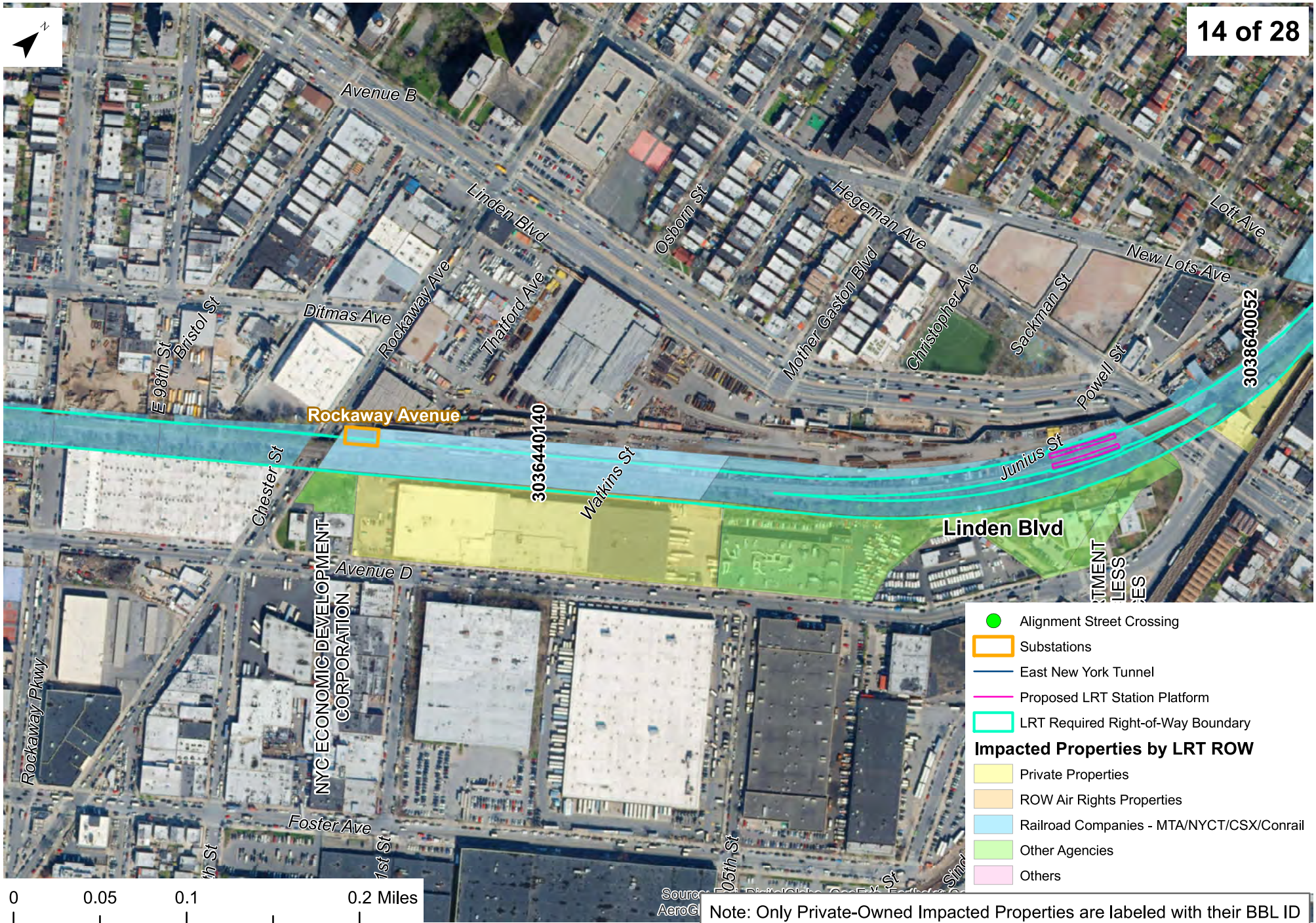
- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

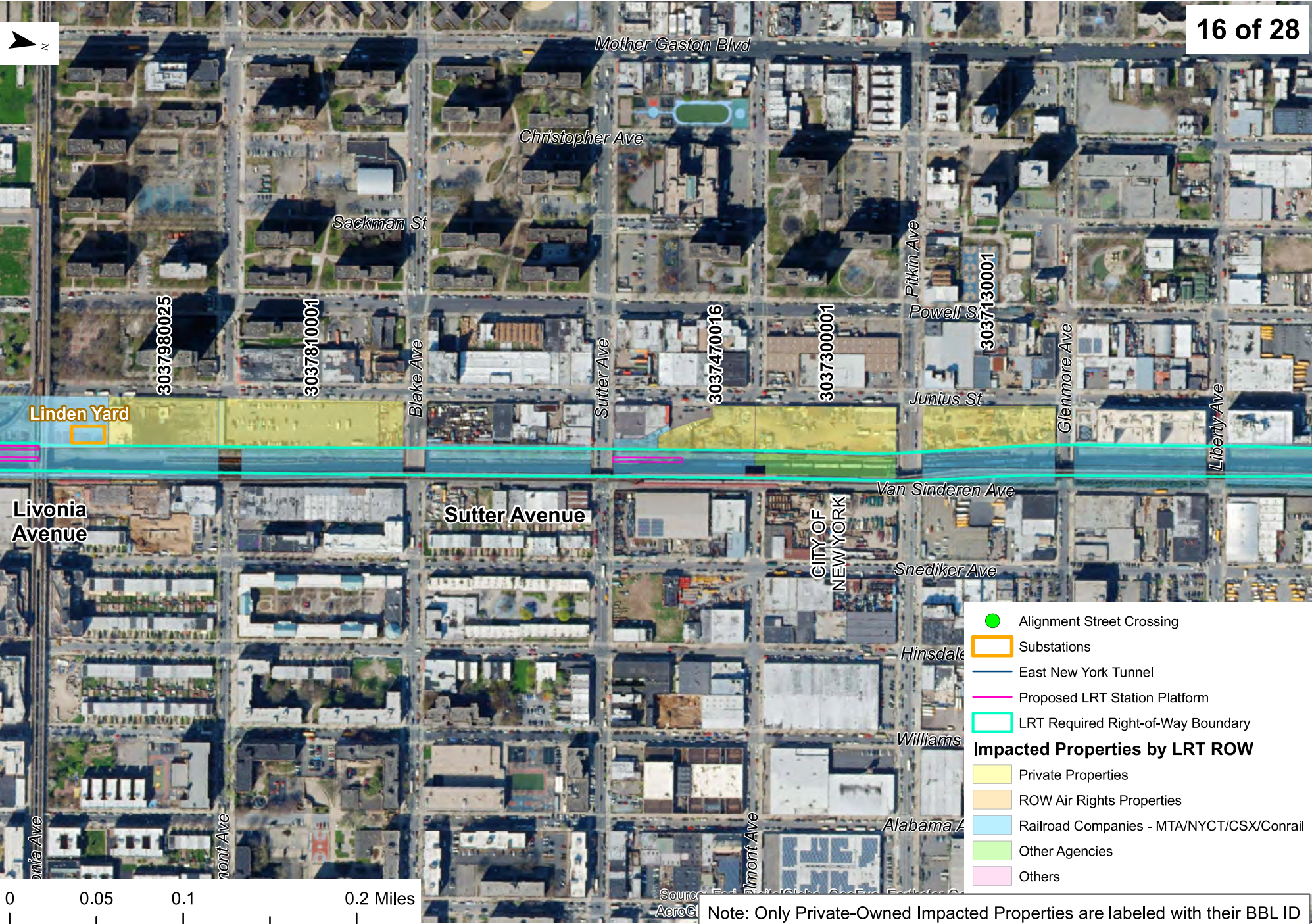
0 0.05 0.1 0.2 Miles

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID







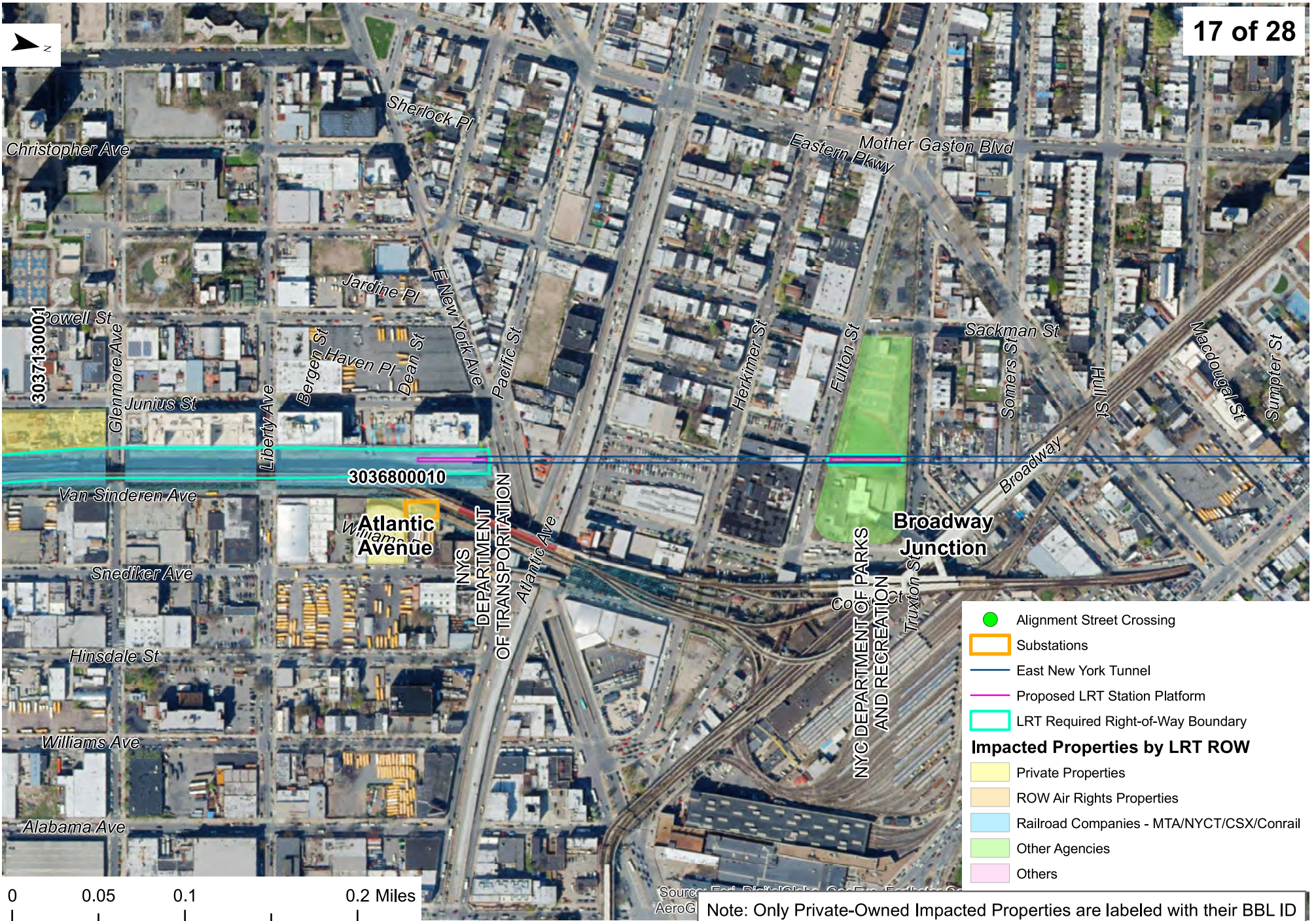


- Alignment Street Crossing
- Substations
- East New York Tunnel
- Proposed LRT Station Platform
- LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
- ROW Air Rights Properties
- Railroad Companies - MTA/NYCT/CSX/Conrail
- Other Agencies
- Others

0 0.05 0.1 0.2 Miles

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID

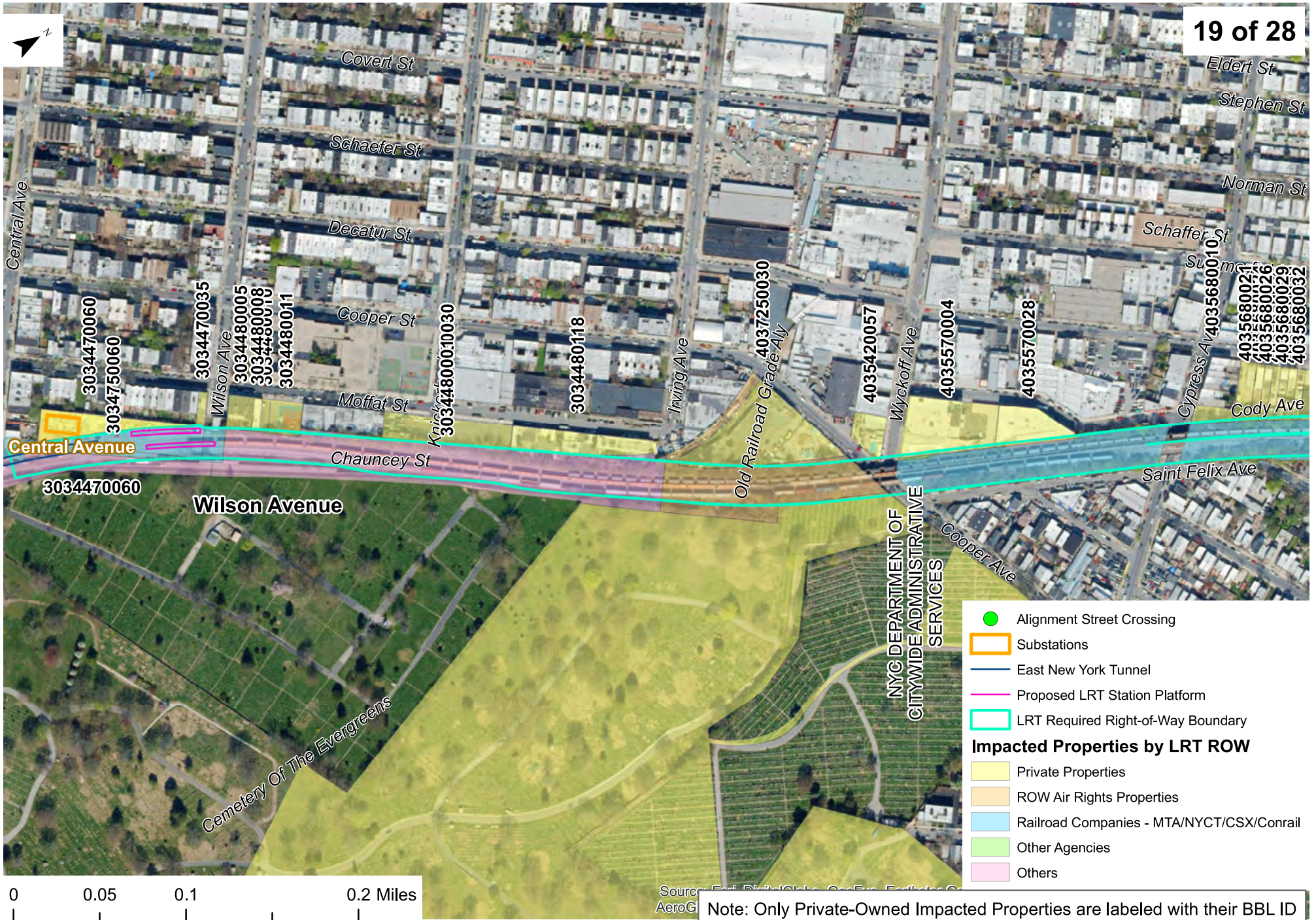






- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

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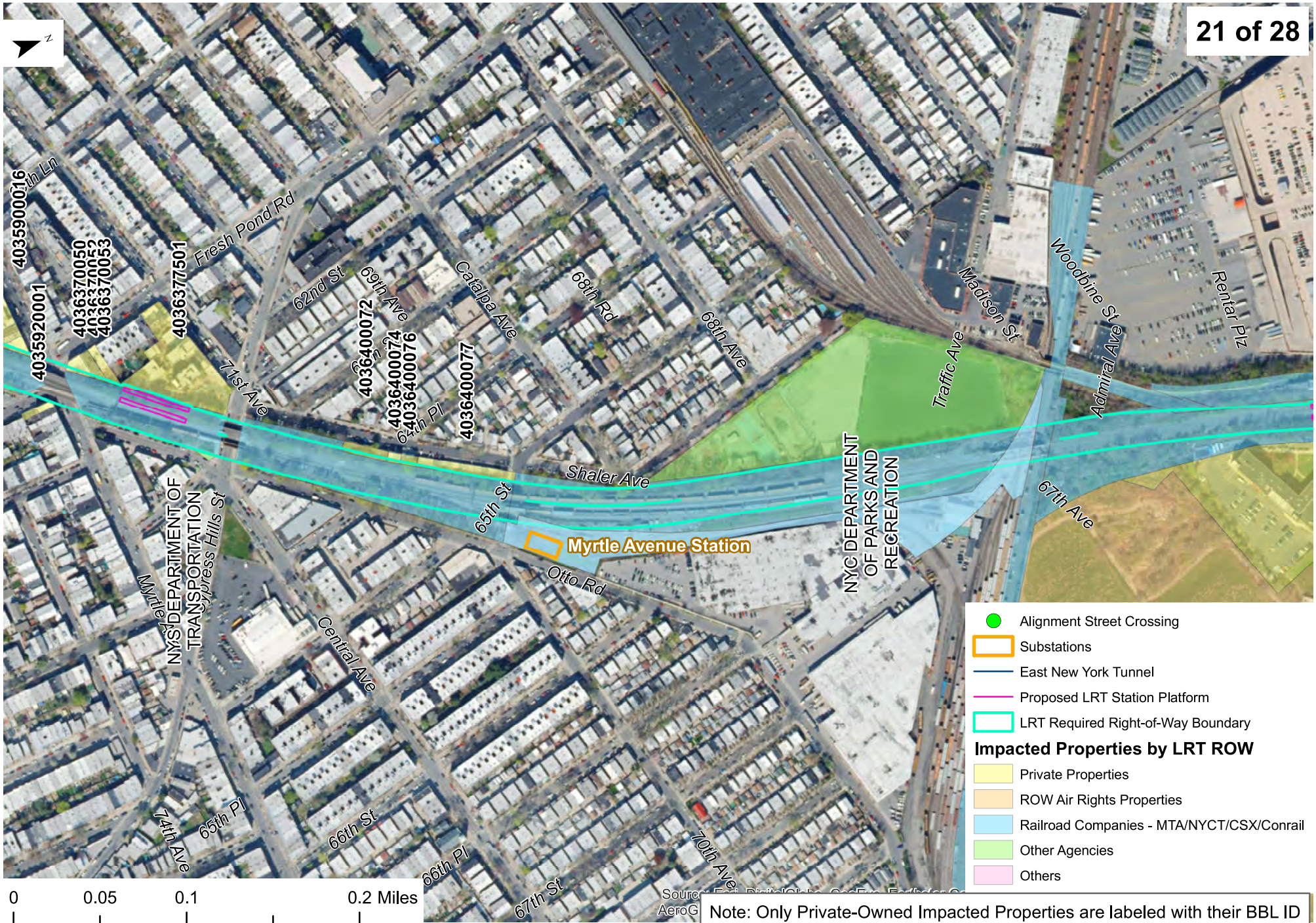


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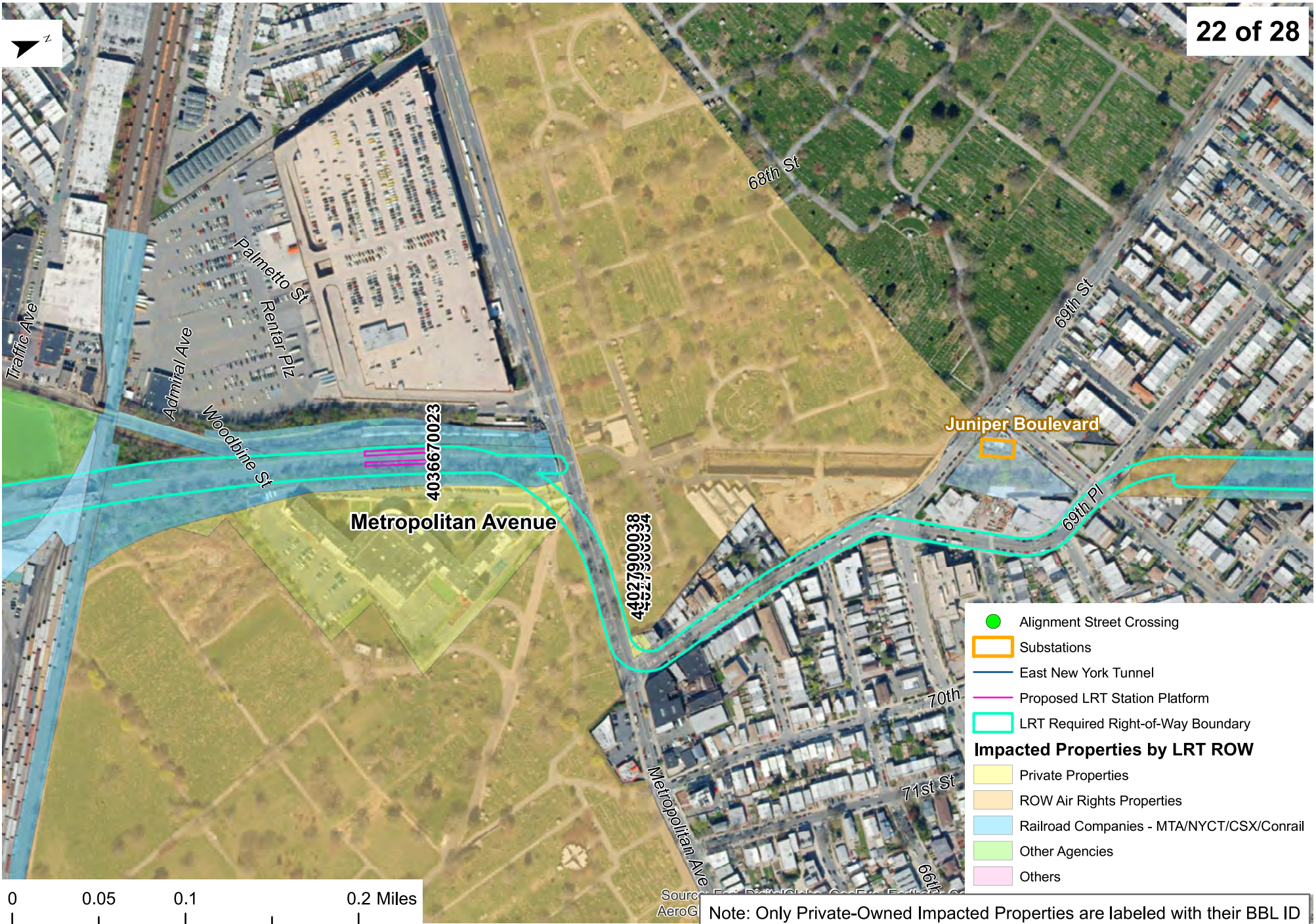
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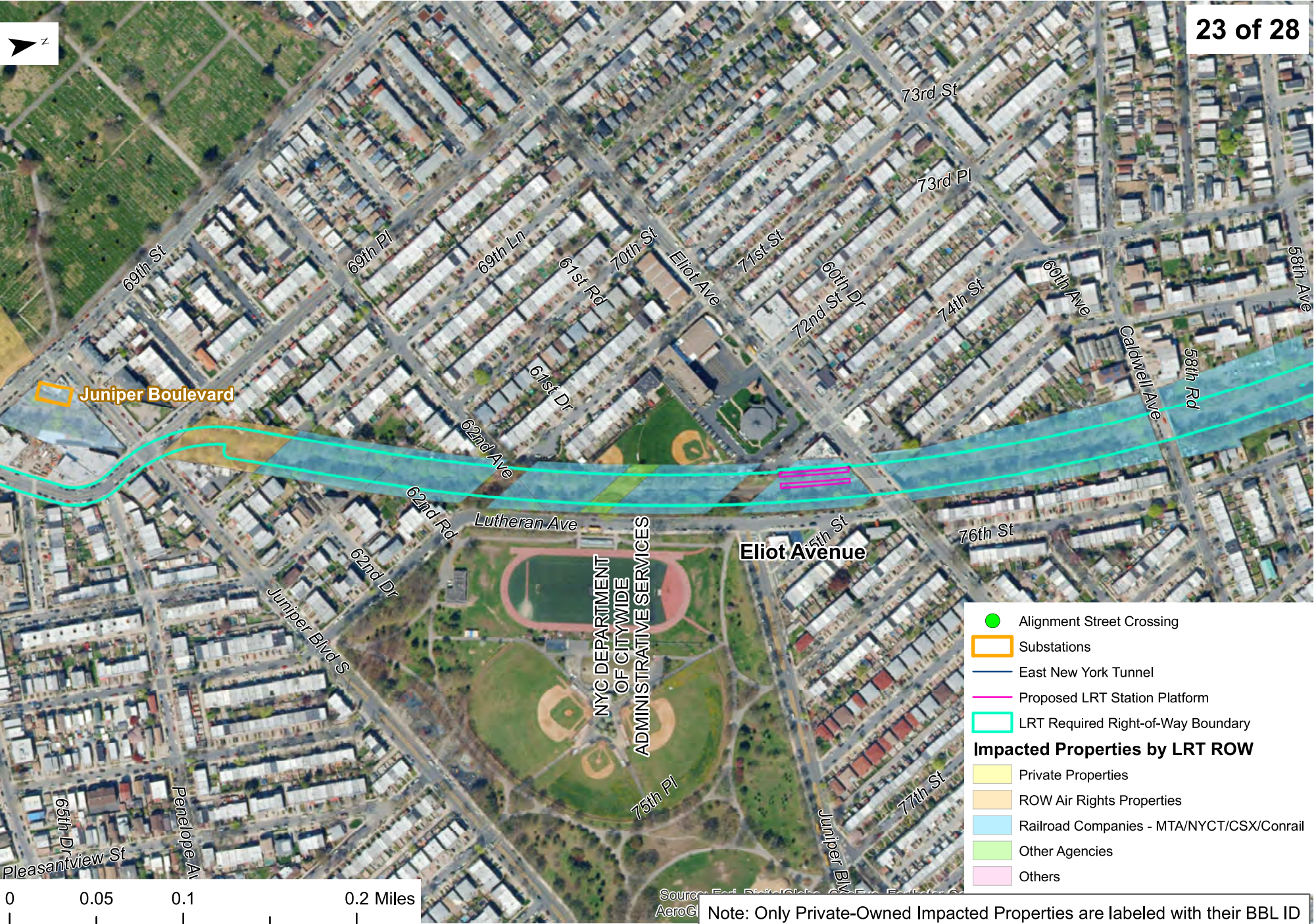




- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

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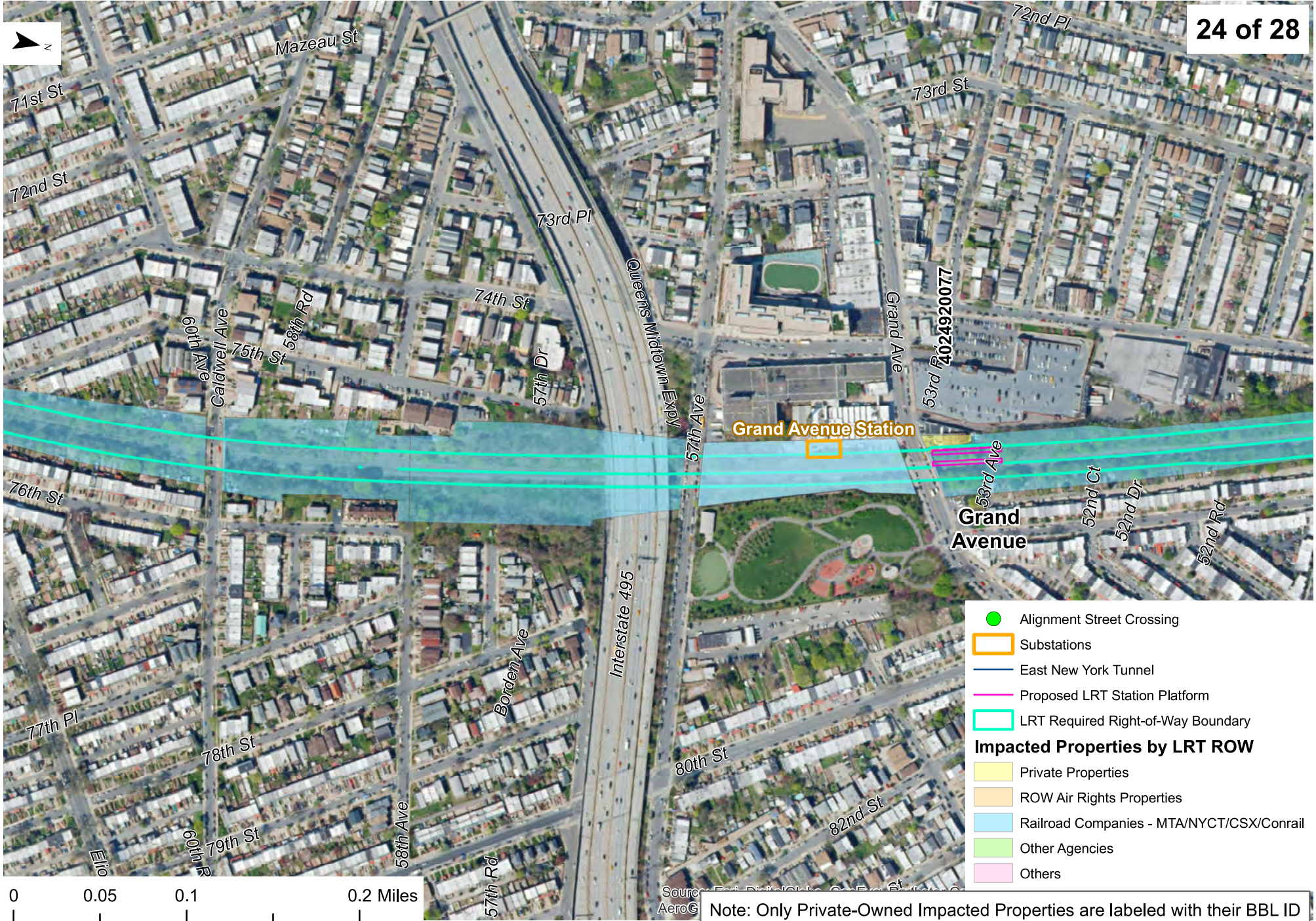


- Alignment Street Crossing
- Substations
- East New York Tunnel
- Proposed LRT Station Platform
- LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
- ROW Air Rights Properties
- Railroad Companies - MTA/NYCT/CSX/Conrail
- Other Agencies
- Others

0 0.05 0.1 0.2 Miles

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- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

Note: Only Private-Owned Impacted Properties are labeled with their BBL ID



- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

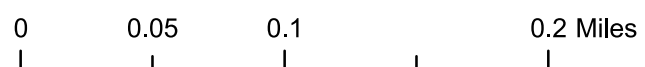
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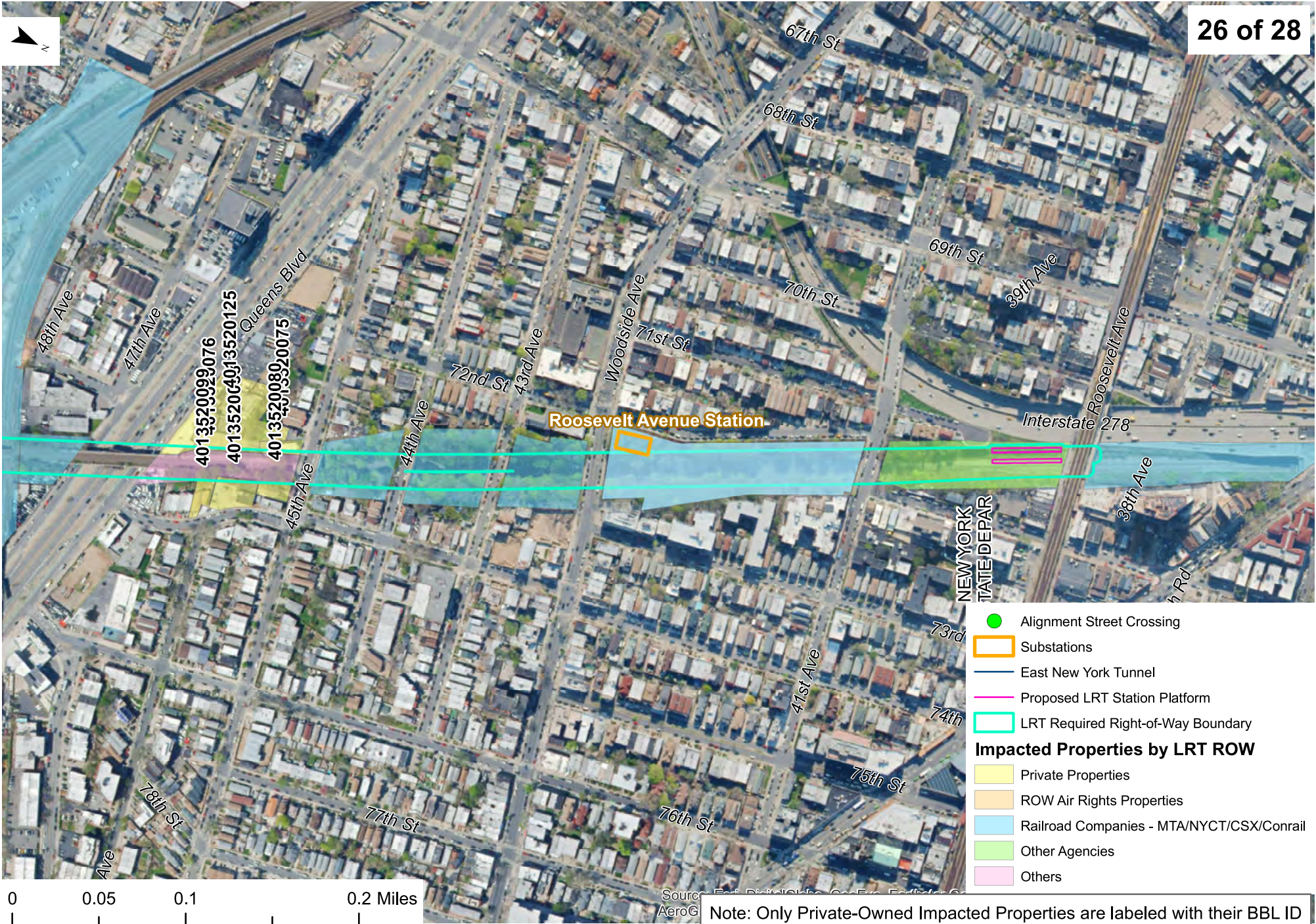
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Note: Only Private-Owned Impacted Properties are labeled with their BBL ID





- Alignment Street Crossing
 - Substations
 - East New York Tunnel
 - Proposed LRT Station Platform
 - LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
 - ROW Air Rights Properties
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 - Others

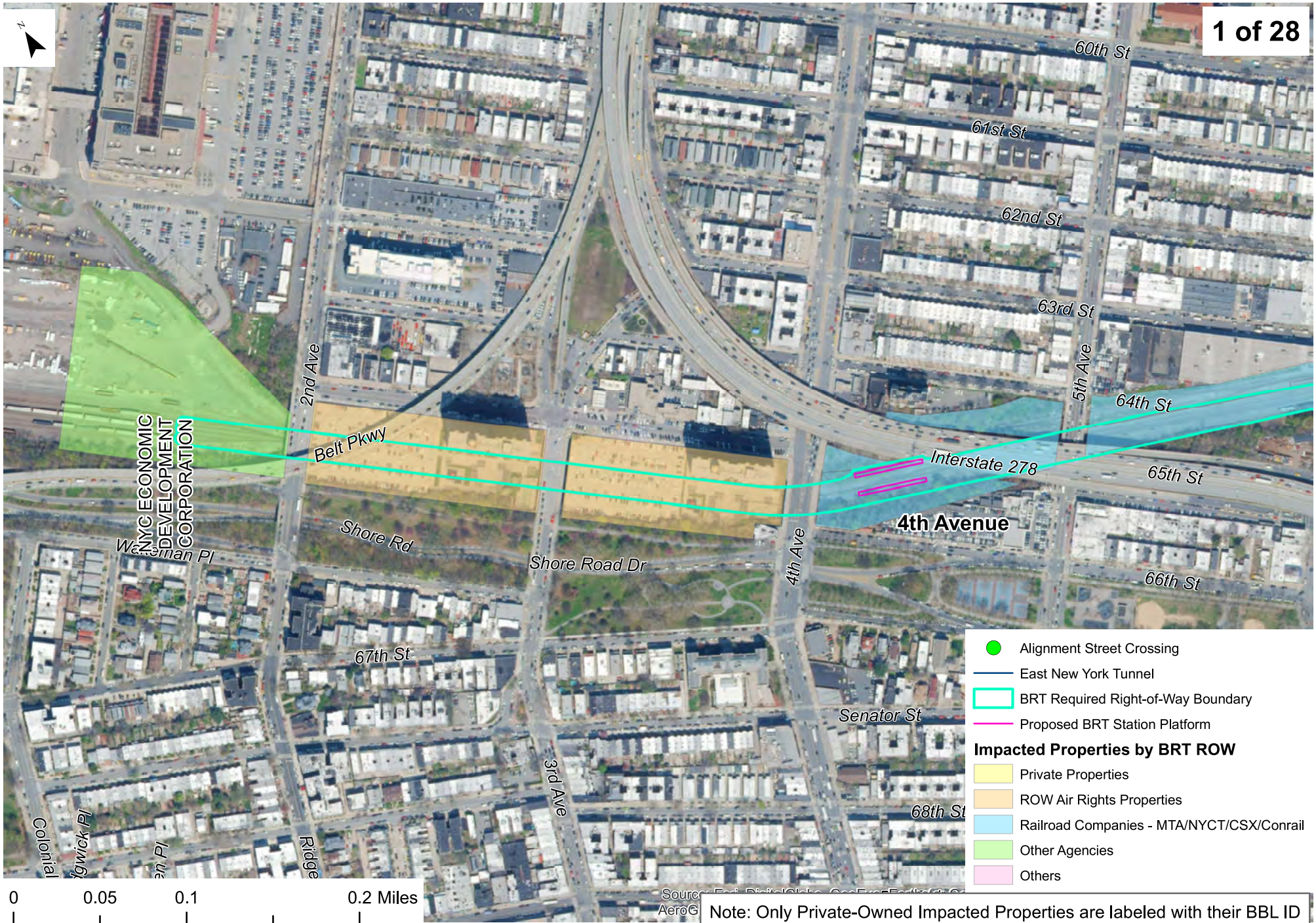
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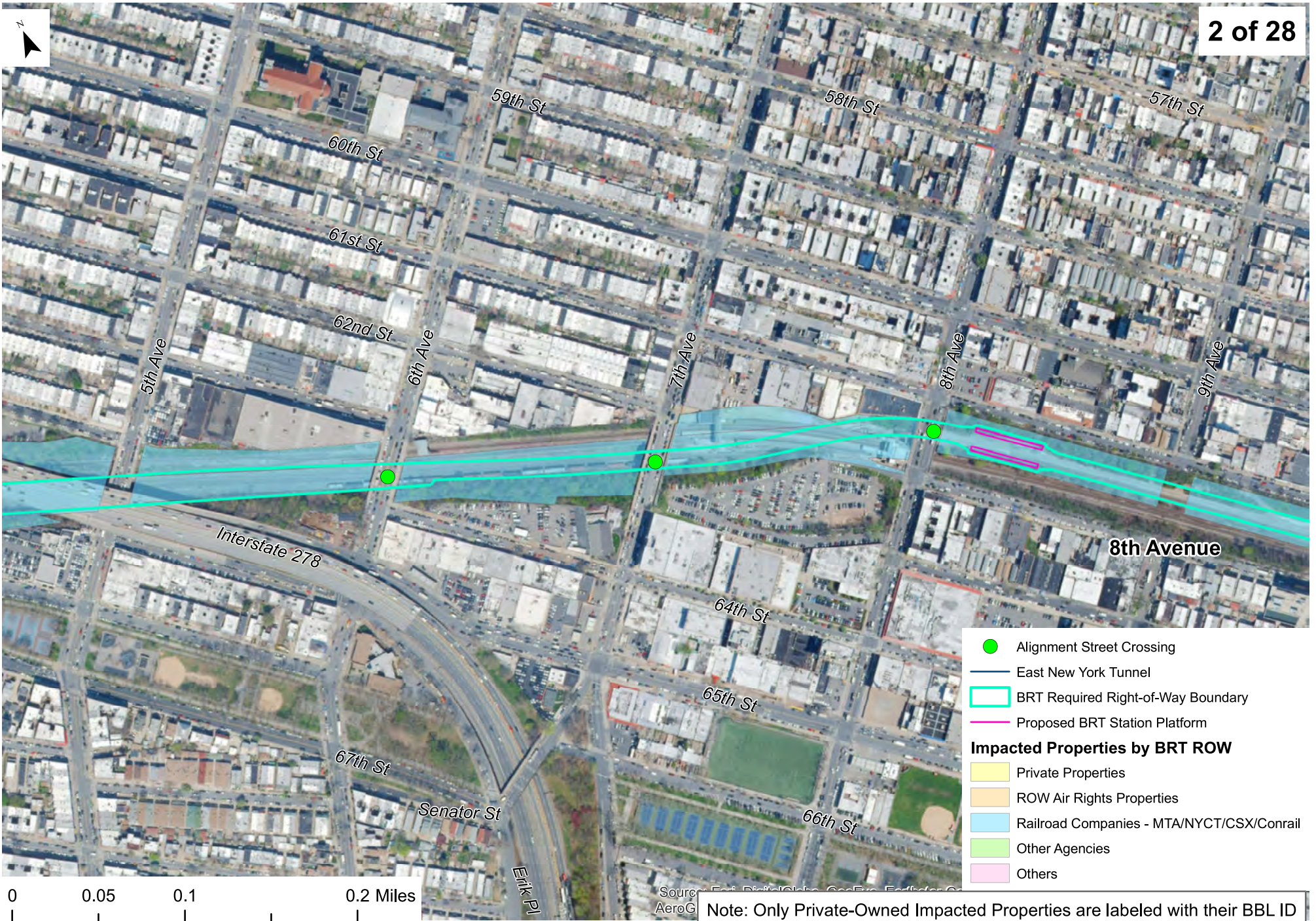




- Alignment Street Crossing
- Substations
- East New York Tunnel
- Proposed LRT Station Platform
- LRT Required Right-of-Way Boundary
- Impacted Properties by LRT ROW**
- Private Properties
- ROW Air Rights Properties
- Railroad Companies - MTA/NYCT/CSX/Conrail
- Other Agencies
- Others

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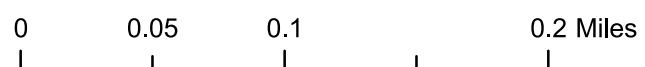








- Alignment Street Crossing
 - East New York Tunnel
 - BRT Required Right-of-Way Boundary
 - Proposed BRT Station Platform
- Impacted Properties by BRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

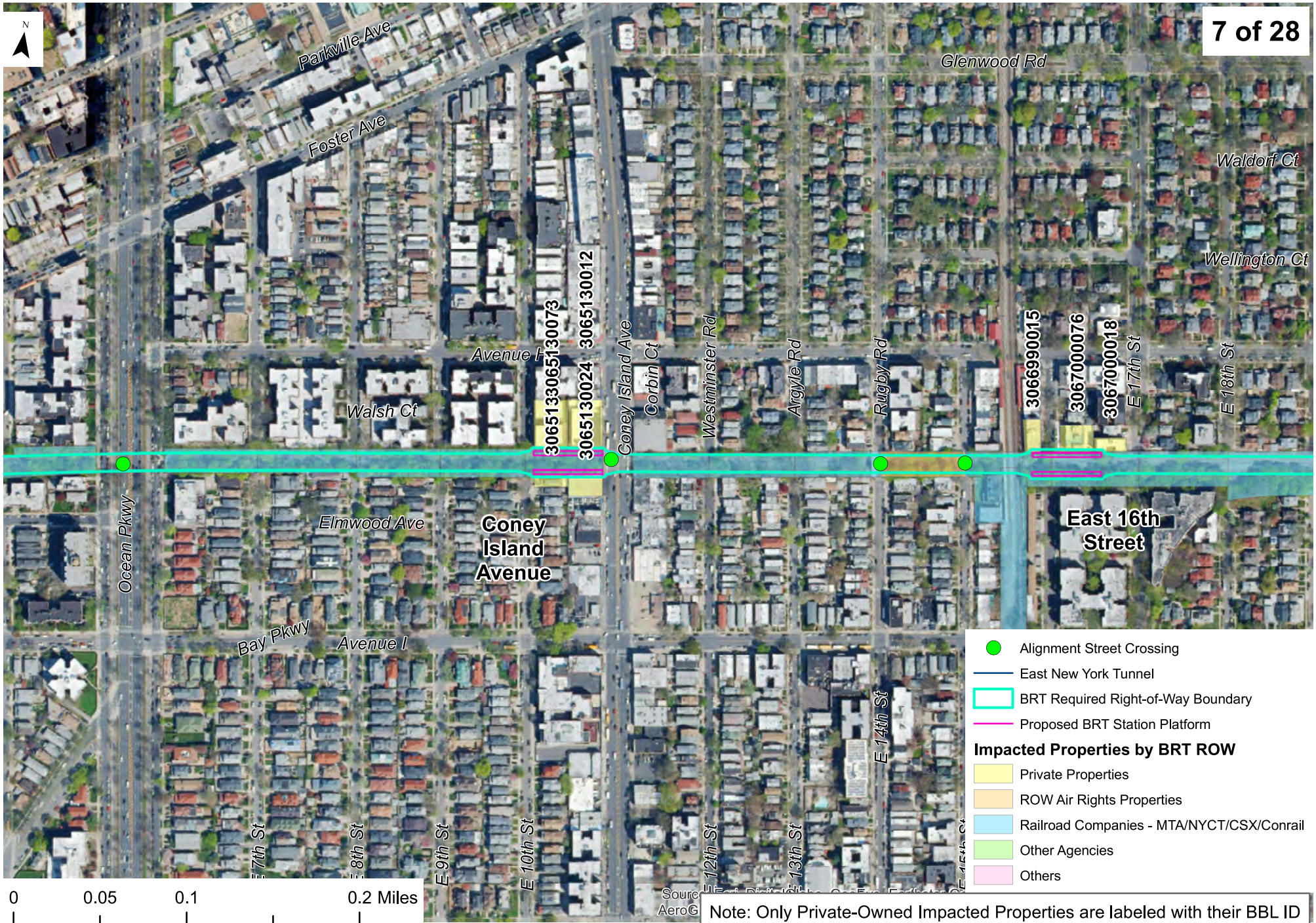


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- Alignment Street Crossing
 - East New York Tunnel
 - BRT Required Right-of-Way Boundary
 - Proposed BRT Station Platform
- Impacted Properties by BRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

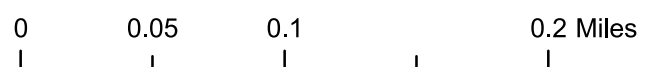
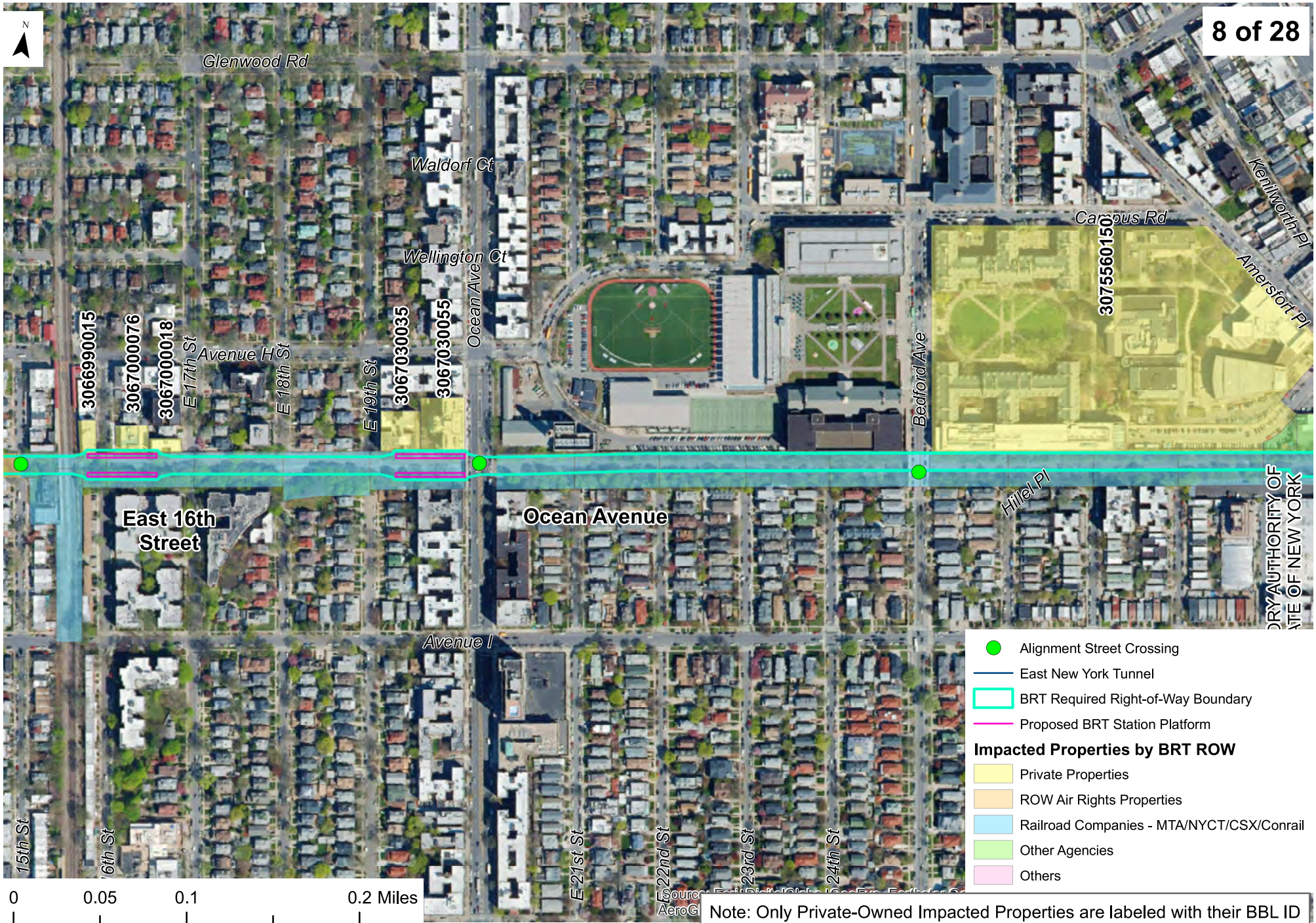


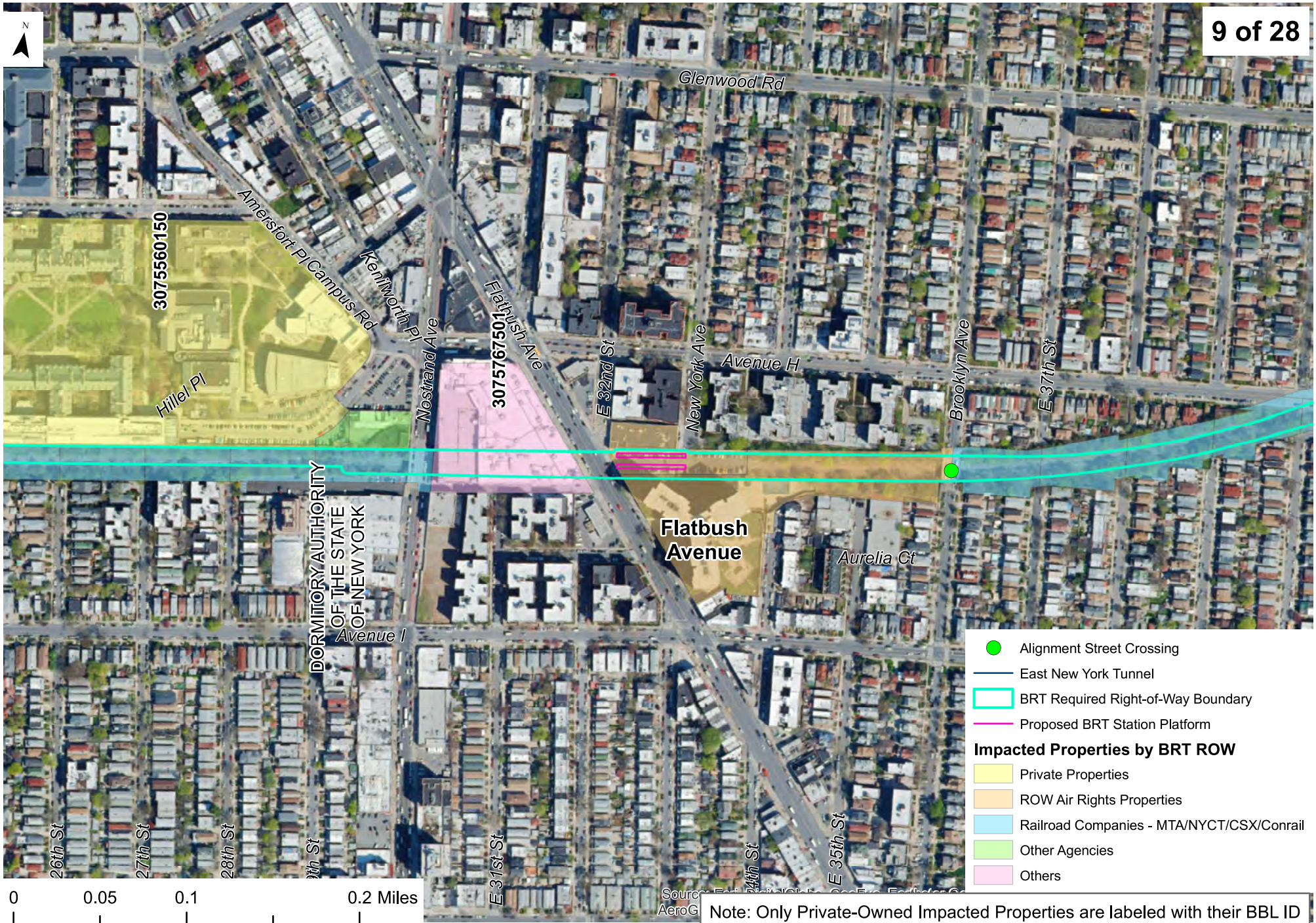


- Alignment Street Crossing
 - East New York Tunnel
 - BRT Required Right-of-Way Boundary
 - Proposed BRT Station Platform
- Impacted Properties by BRT ROW**
- Private Properties
 - ROW Air Rights Properties
 - Railroad Companies - MTA/NYCT/CSX/Conrail
 - Other Agencies
 - Others

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- Alignment Street Crossing
- East New York Tunnel
- BRT Required Right-of-Way Boundary
- Proposed BRT Station Platform

Impacted Properties by BRT ROW

- Private Properties
- ROW Air Rights Properties
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- Other Agencies
- Others



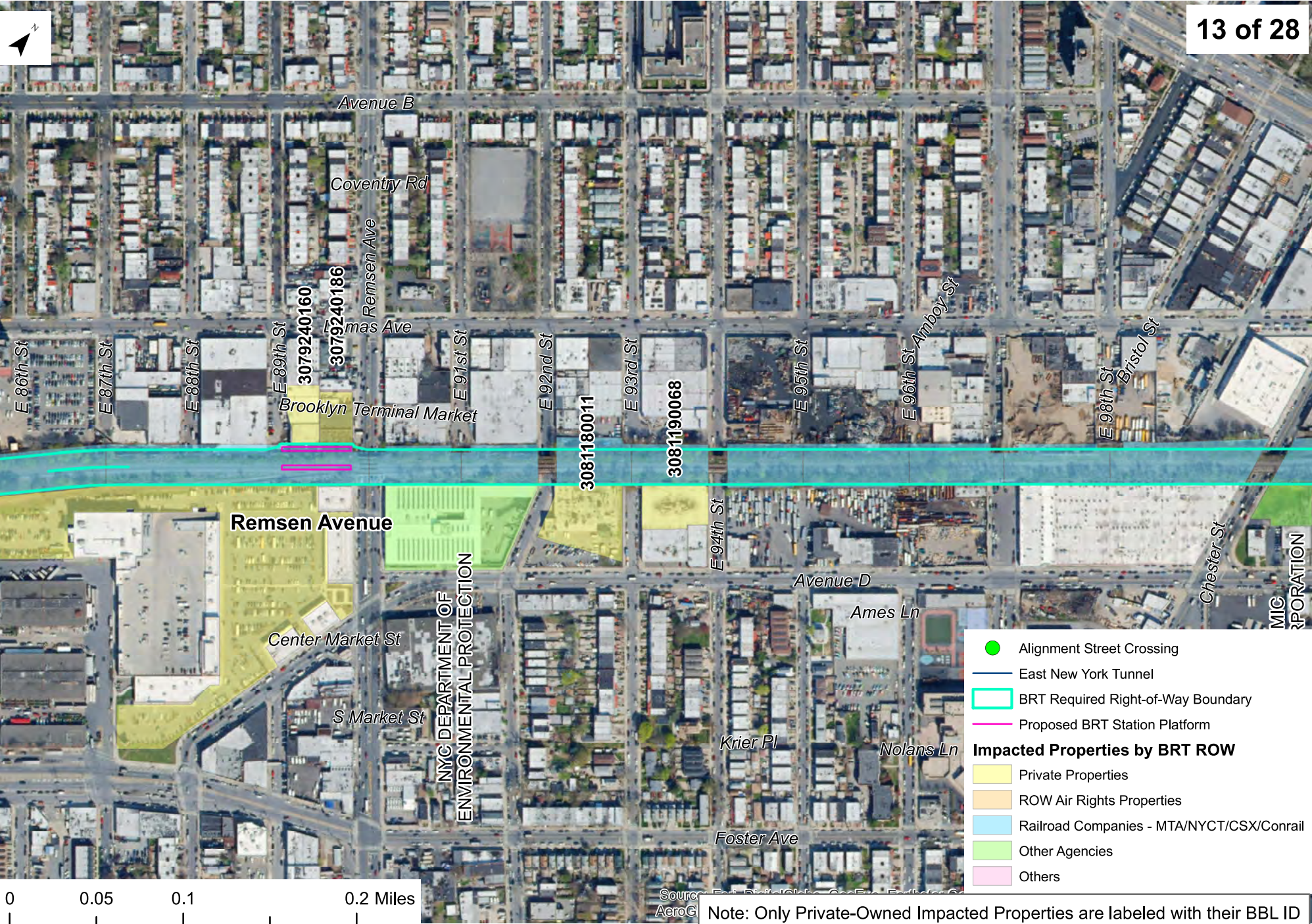
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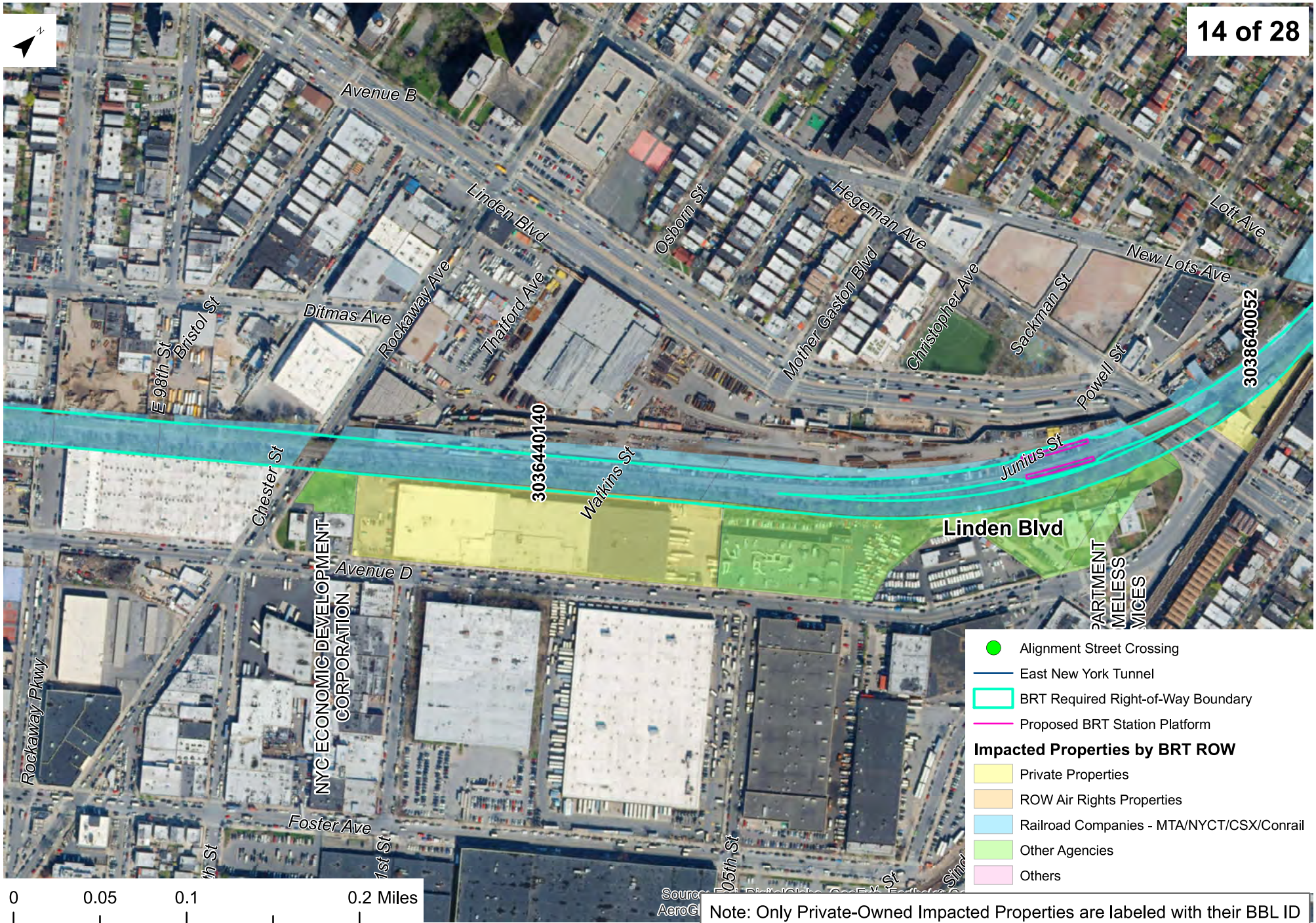
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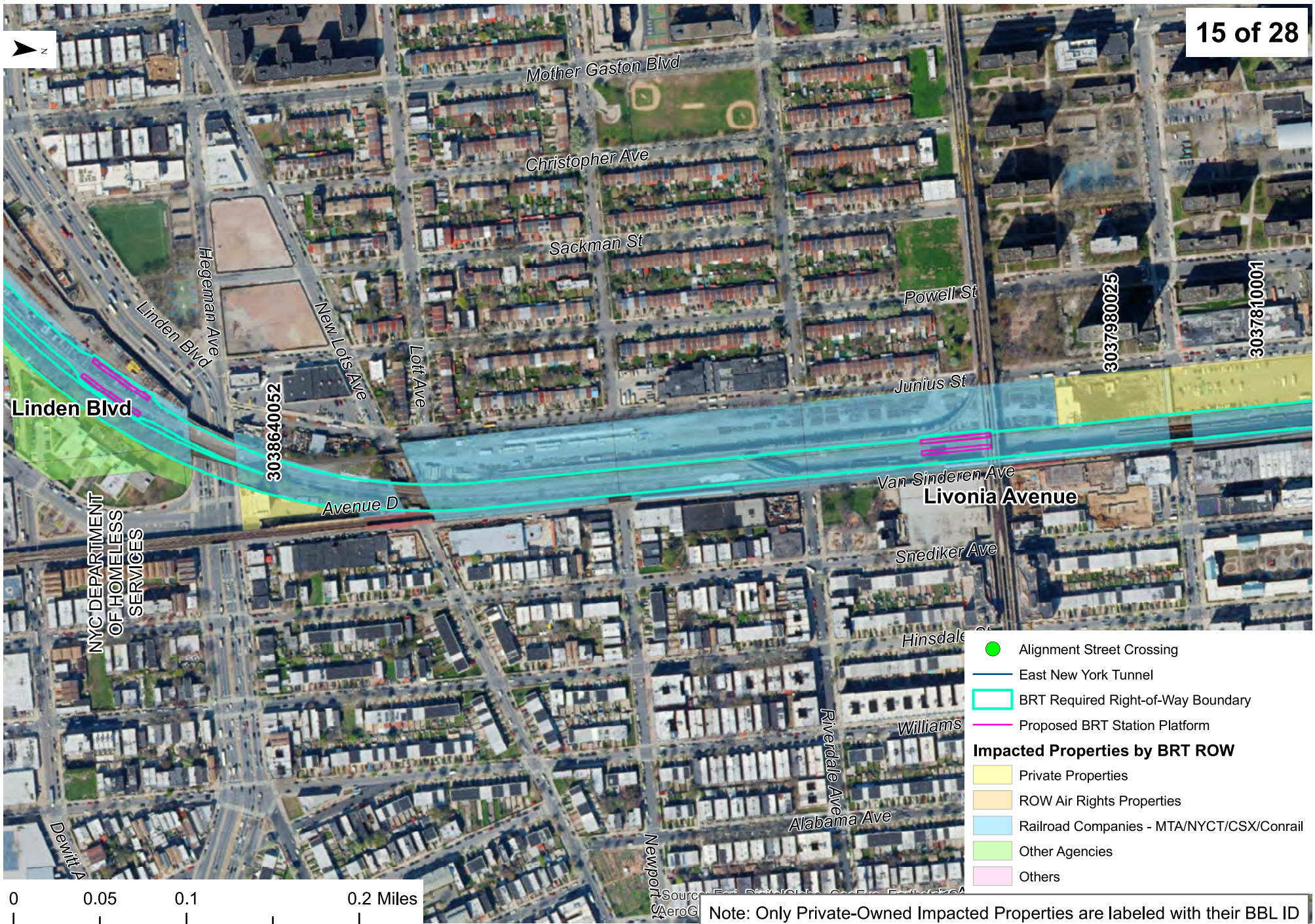
- Alignment Street Crossing
 - East New York Tunnel
 - BRT Required Right-of-Way Boundary
 - Proposed BRT Station Platform
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 - ROW Air Rights Properties
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 - Other Agencies
 - Others

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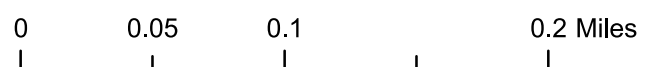


- Alignment Street Crossing
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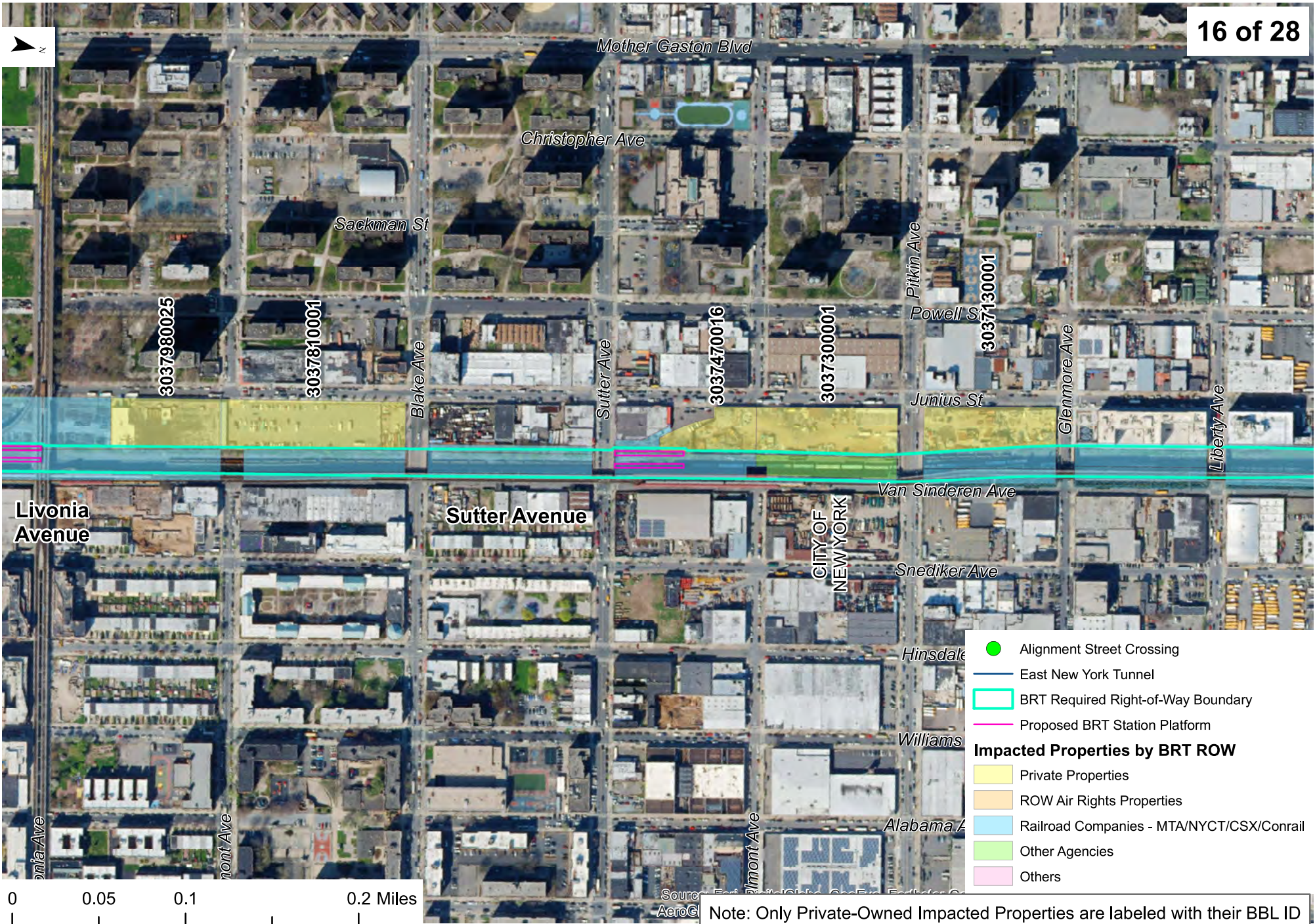


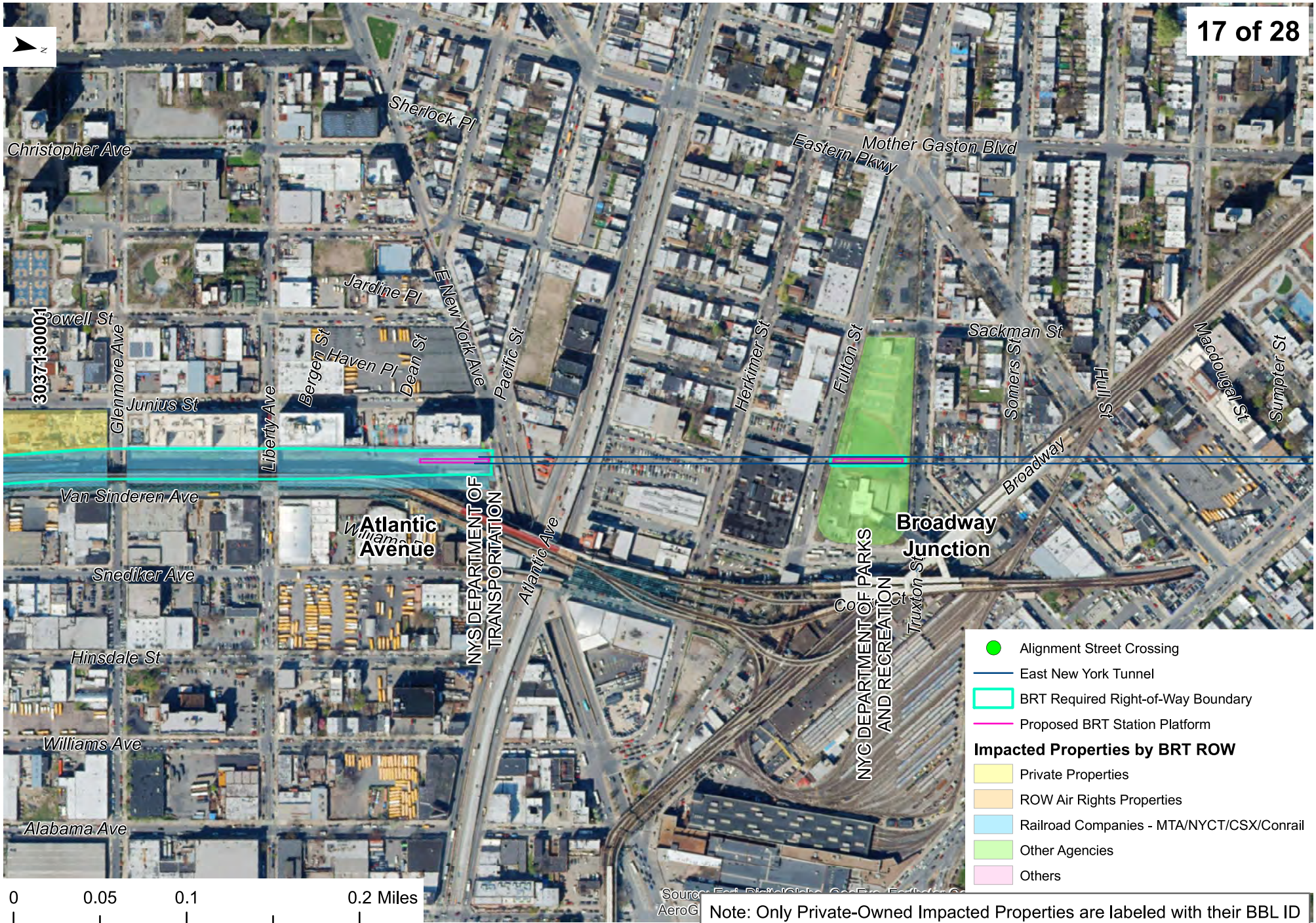
NYC DEPARTMENT OF HOMELESS SERVICES



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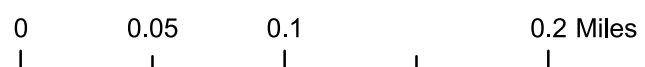
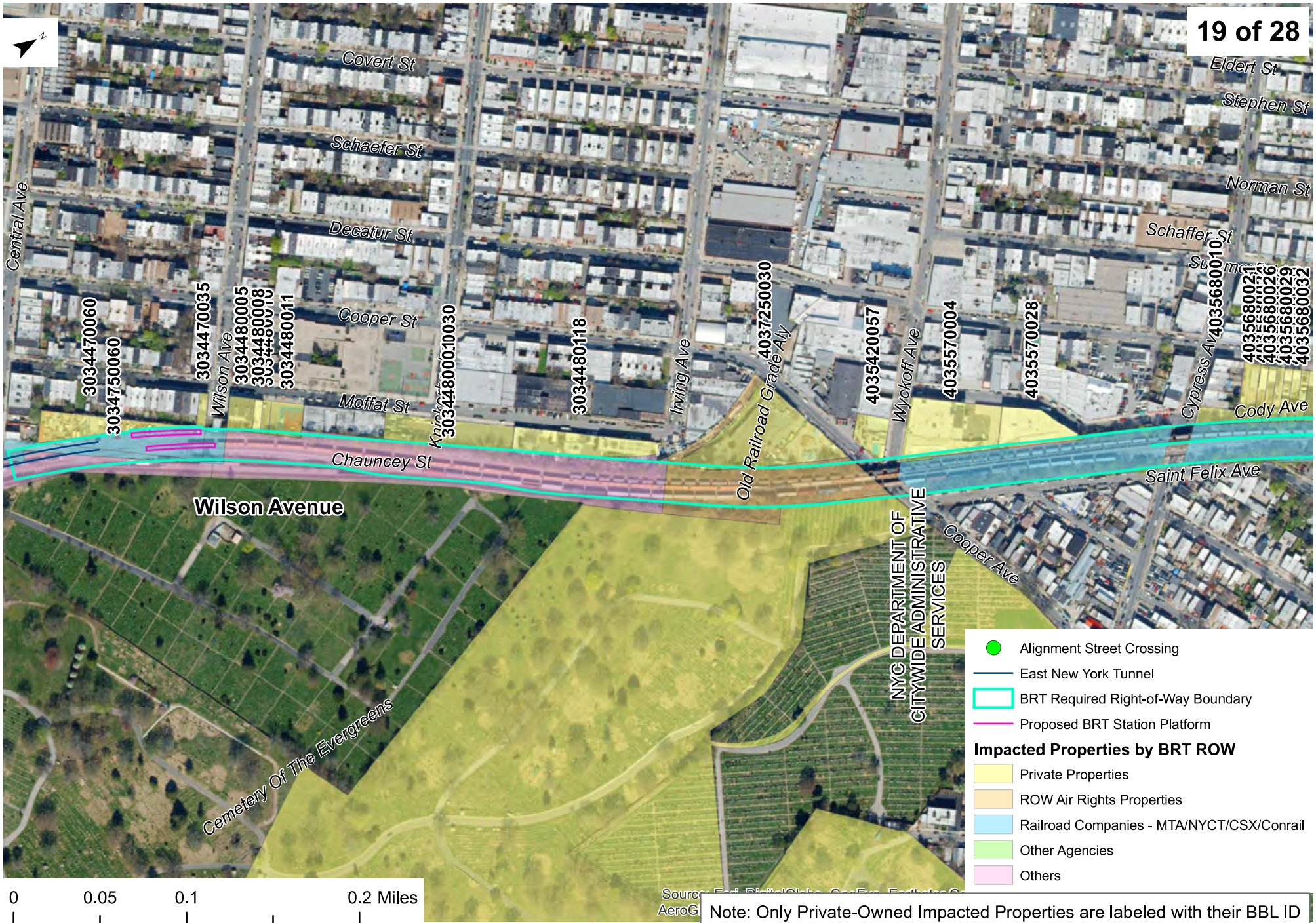


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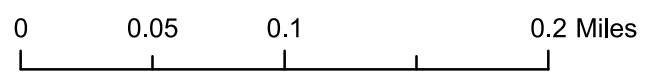
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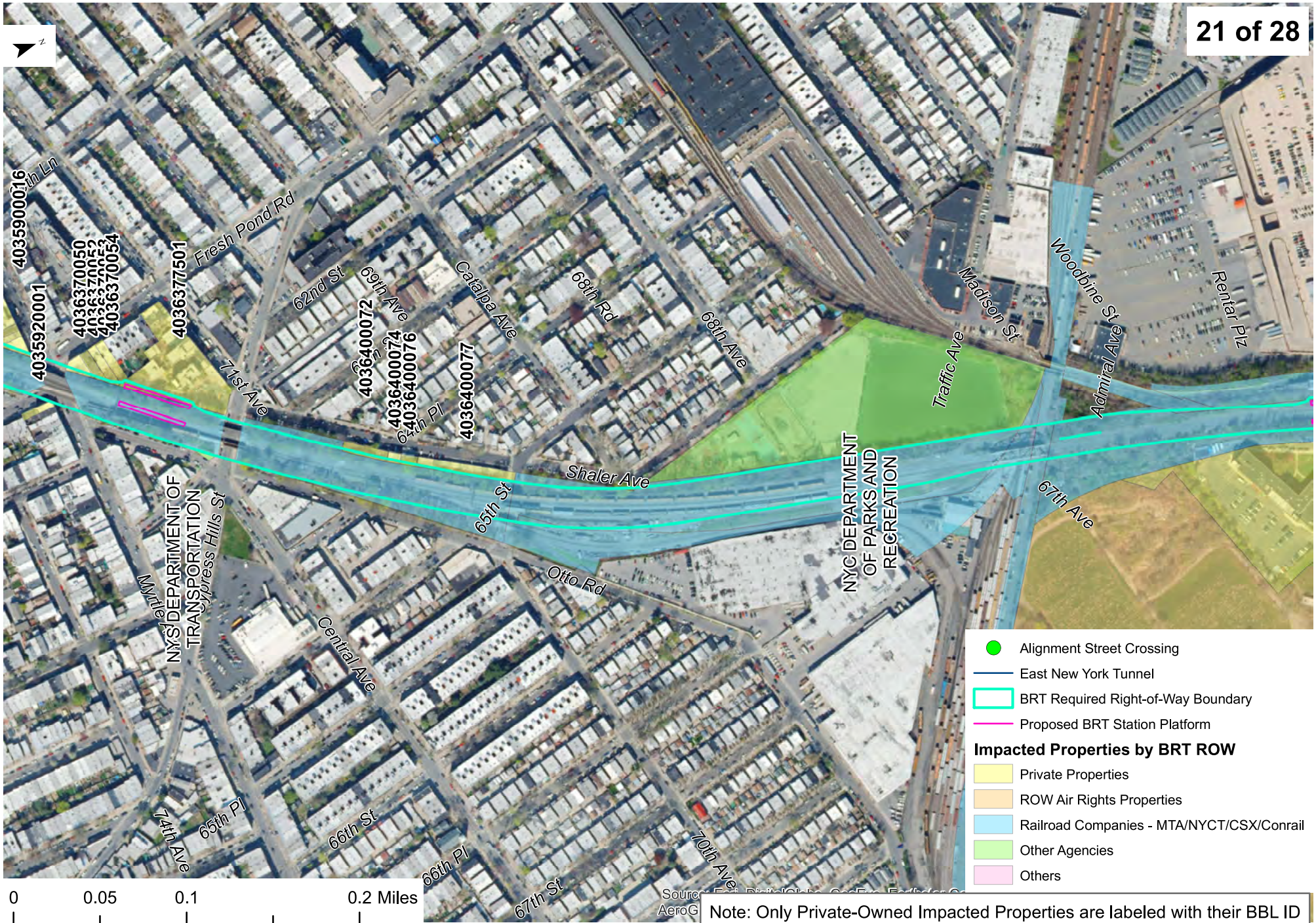
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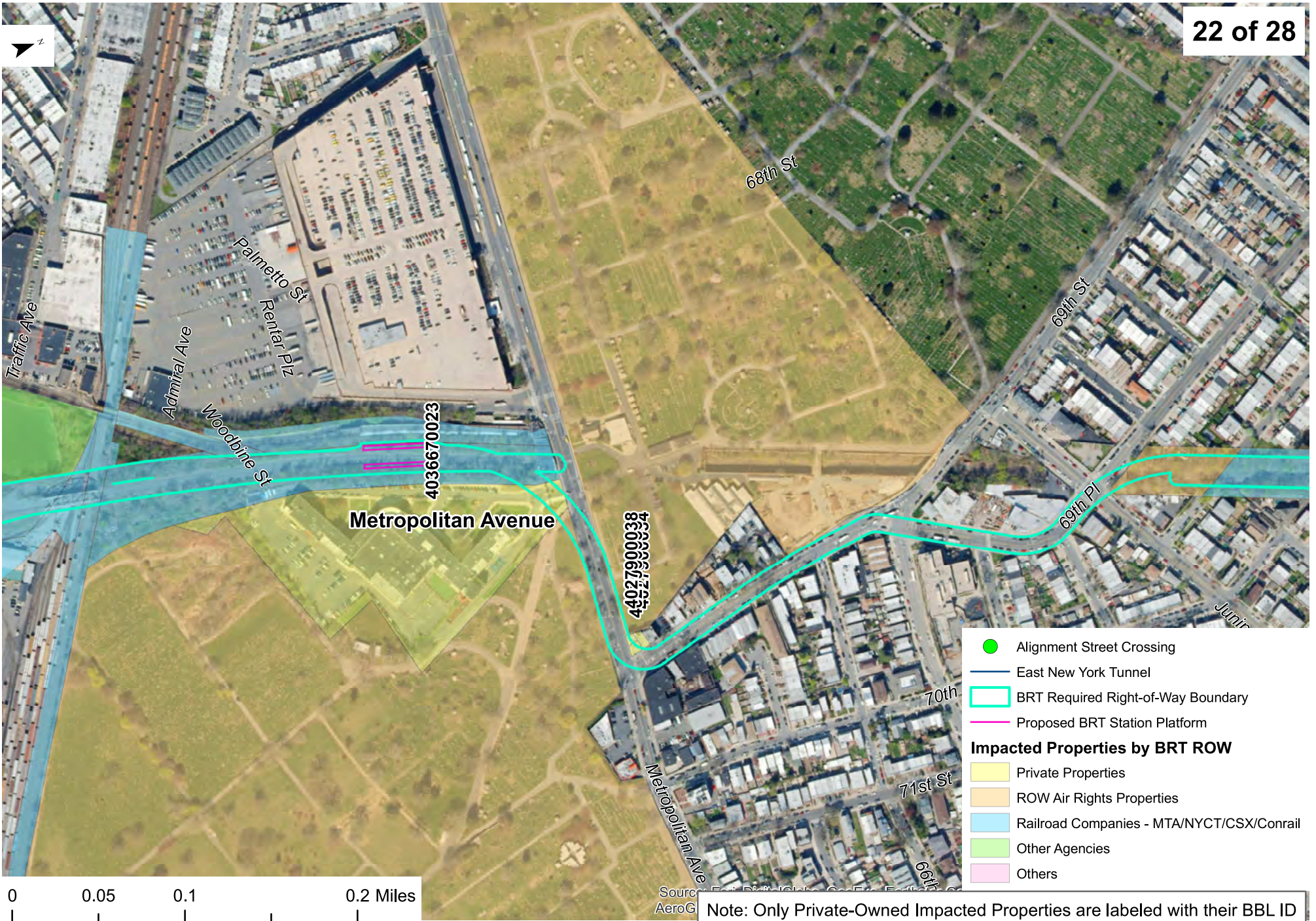




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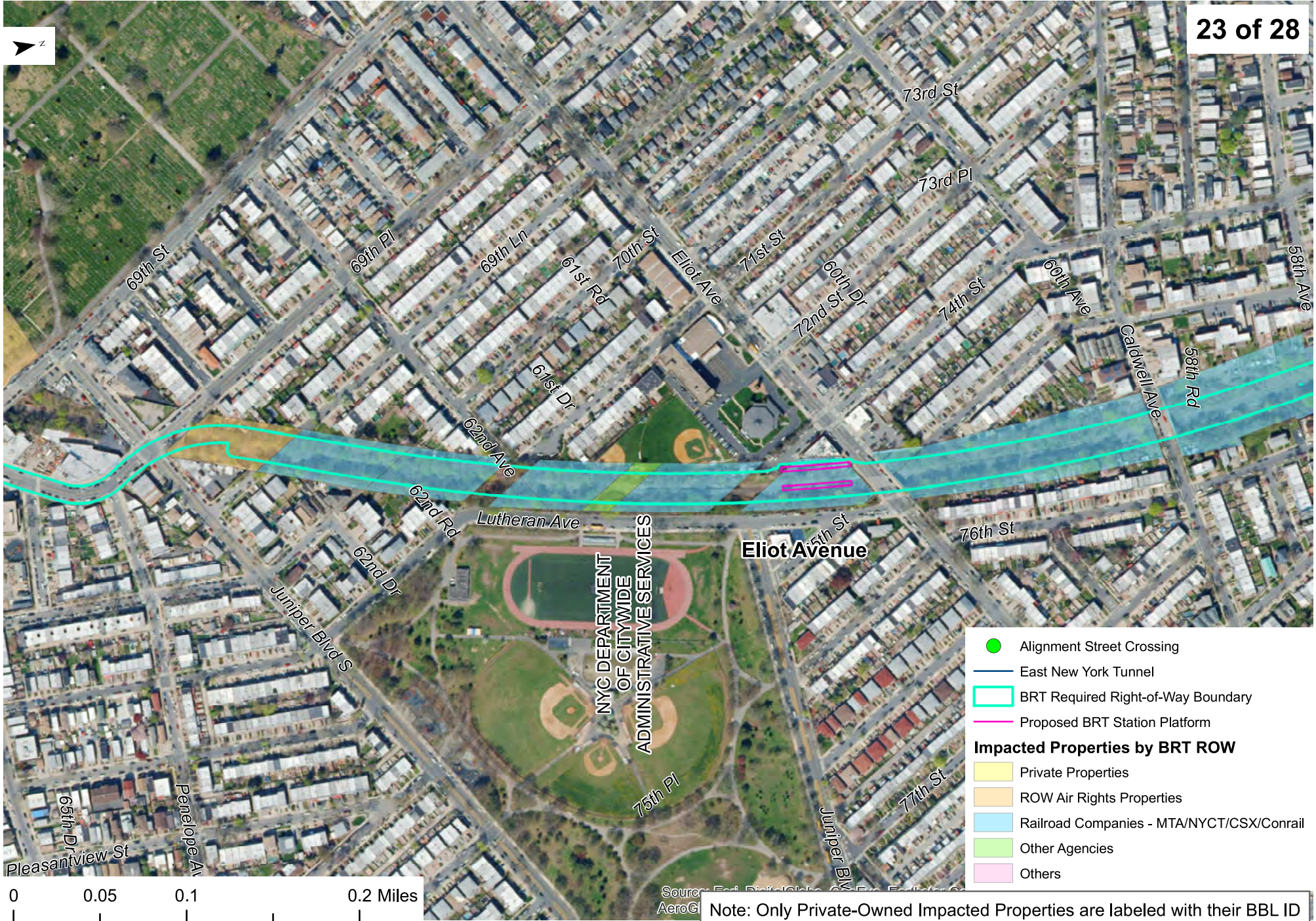
0 0.05 0.1 0.2 Miles

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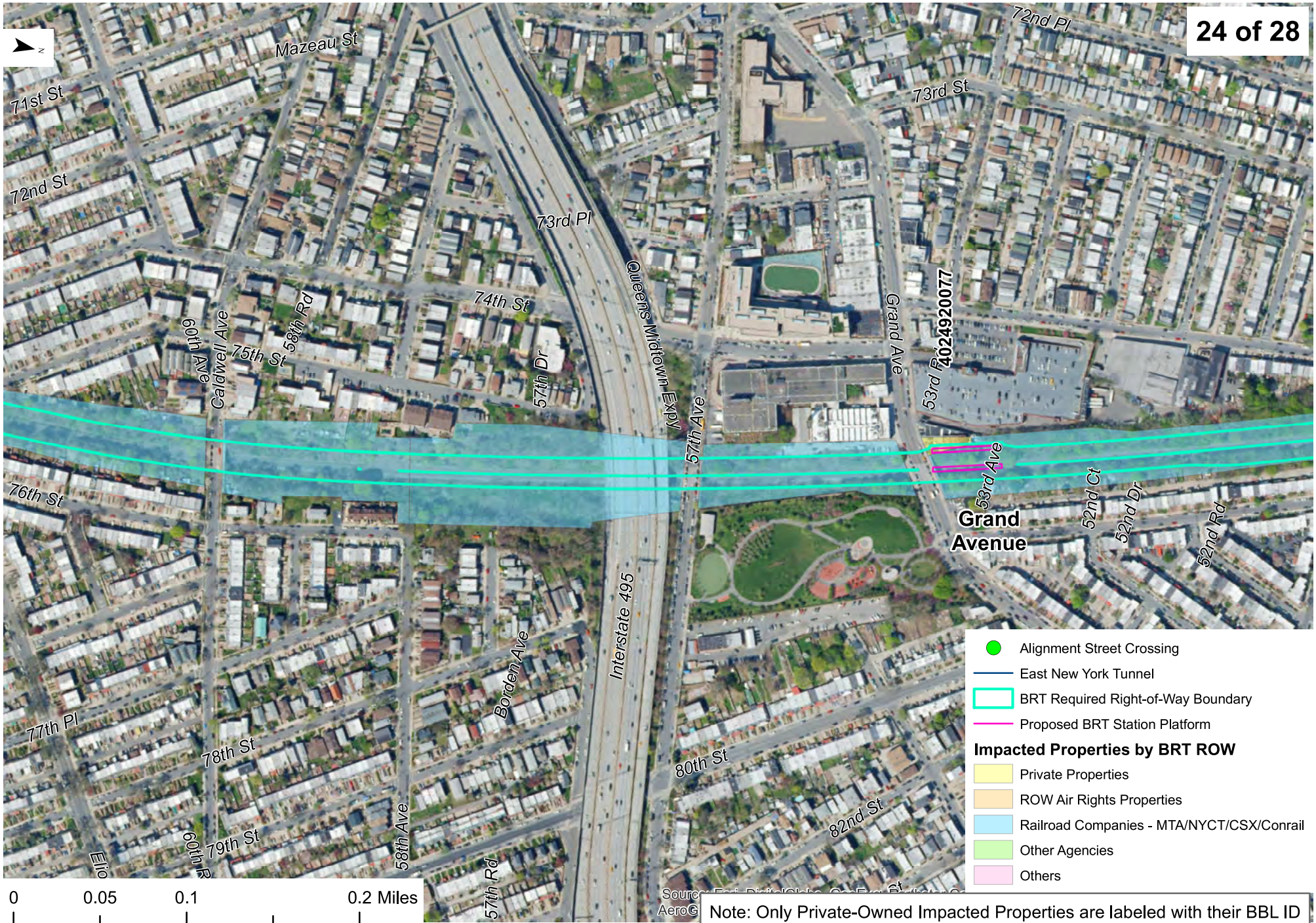


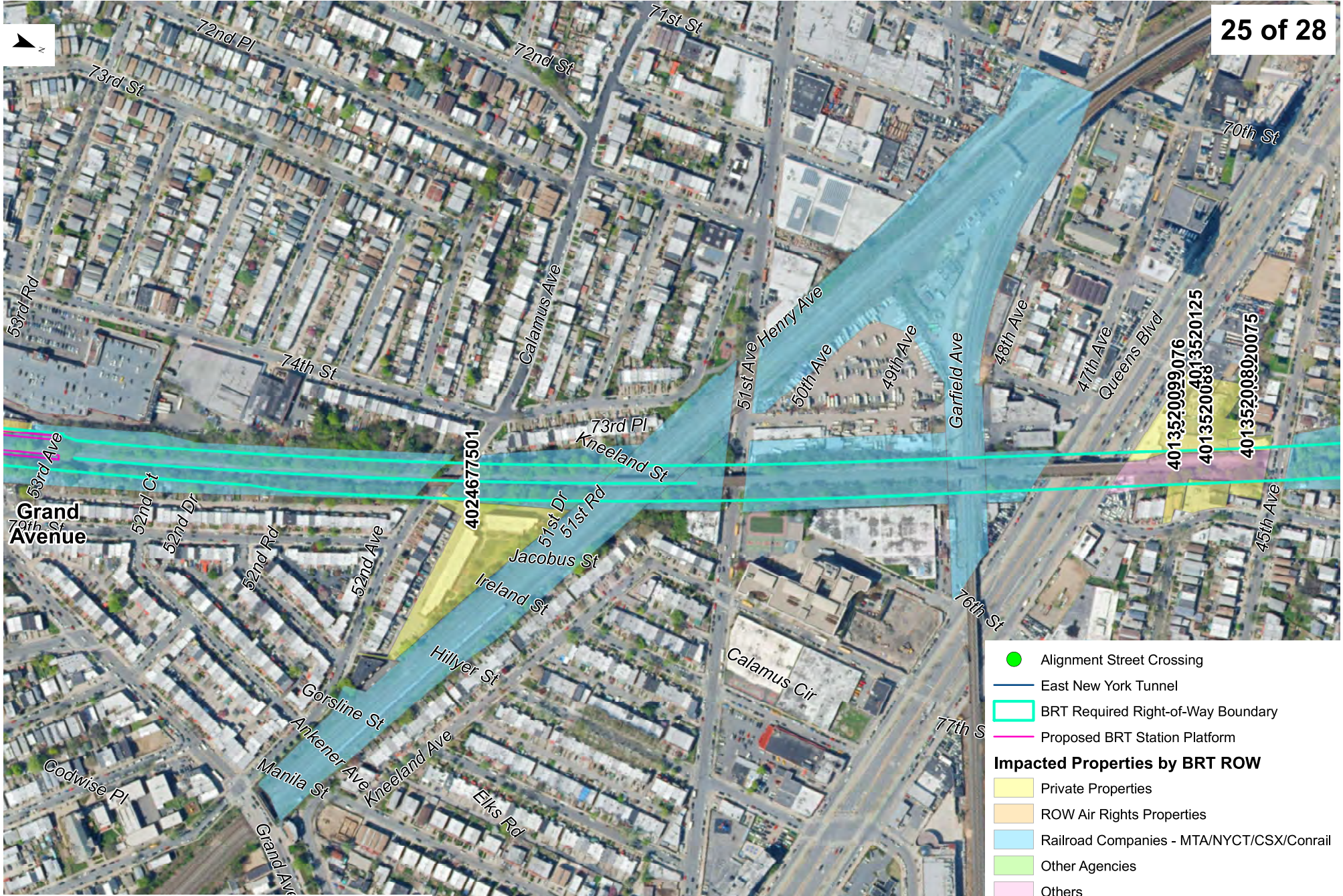
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Brooklyn-Queens Connector

Property Impact - BRT





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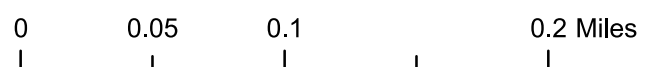
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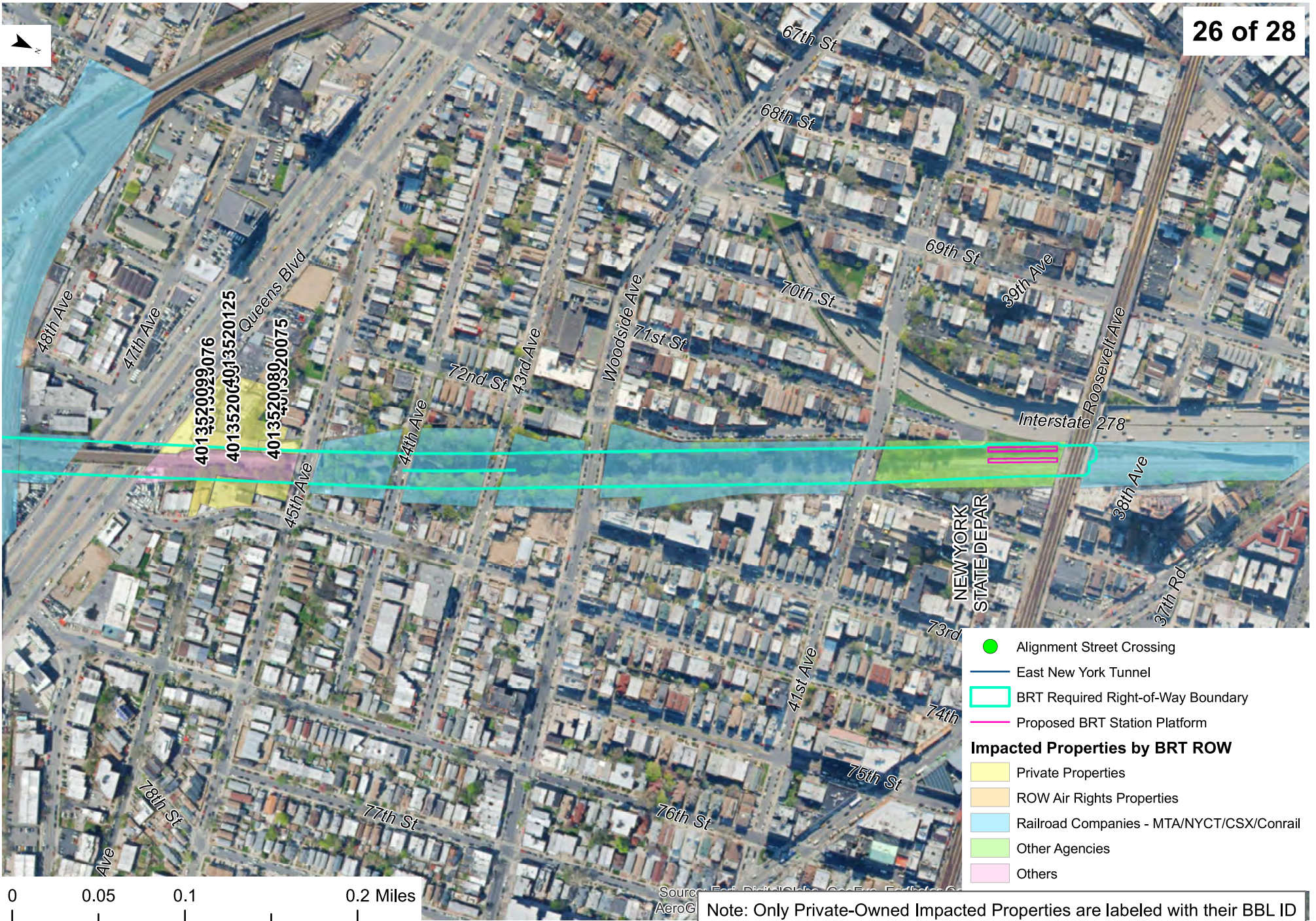
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0 0.05 0.1 0.2 Miles

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Source: Aerial Imagery, Esri, DeLorme, GeoEye, Earthstar G

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