

Appendix A

Flood Inundation Mapping

Pre-Conditions Present Day Inundation Mapping

PROJ. No.: 20170390.J11

DATE: OCTOBER 2020 FIG. F-1

BROCKTON

CITY OF BROCKTON INDEX MAP AND OVERALL PRE-

RESTORATION FLOOD INUNDATION MAP BROCKTON PLAN FOR CLIMATE RESILIENCY

MASSACHUSETTS



SCALE:					
HORZ.: 1"= 800'					
VERT.:					
DATUM:					
HORZ.:					
VERT.:					
800 400 0 800					
	1.			XX/XX	XX
GRAPHIC SCALE	No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

PRE-RESTORATION FLOOD **INUNDATION MAP**

BROCKTON PLAN FOR CLIMATE RESILIENCY

MASSACHUSETTS BROCKTON

FUSS&O'NEILL 317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908 401.861.3070 www.fando.com

SCALE:					
HORZ.: 1"= 300'					
VERT.:	1				
DATUM:					
HORZ.:					
VERT.:					
300 150 0 300					
	1.			XX/XX	XX
GRAPHIC SCALE	No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

FUSS&O'NEILL

317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908

401.861.3070 www.fando.com

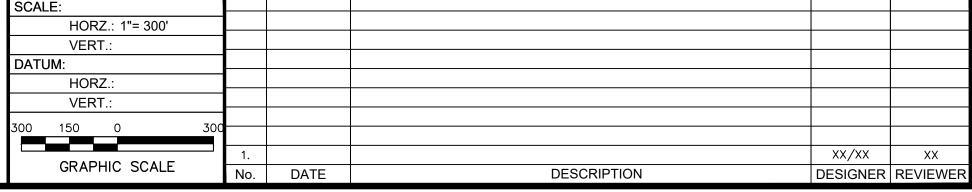
DATE: OCTOBER 2020

FIG. F-3

CITY OF BROCKTON

PRE-RESTORATION FLOOD **INUNDATION MAP**

BROCKTON PLAN FOR CI	LIMATE RESILIENCY	
BROCKTON	MASSACHUSETTS	



PRE-RESTORATION FLOOD INUNDATION MAP

BROCKTON PLAN FOR CLIMATE RESILIENCY

DROCK TON FLAN FO	ON CLIMATE RESILIENCE
BROCKTON	MASSACHUSETT

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FUSS&O'NEILL	DATUM:					
T COOK O THERED	HORZ.:					
317 IRON HORSE WAY, SUITE 204	VERT.:					
PROVIDENCE, RI 02908 401.861.3070						
www.fando.com	300 150 0 300					
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	GRAPHIC SCALE	No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

Post-Conditions Present Day Inundation Mapping

File Path: J:\DWG\P2017\0390\J11\Civil\Figures\20170390J11_TASK6_FIG06_FLBD_POST.dwg Layout: FIG 3A Plotted: Thu, October 22, 2020 - 2
MS VIEW:

| LAYER STATE: | LAYER STATE: | LAYER STATE: | LAYER STATE: | Plotter: DWG TO PDF.PC3 CTB File: FO.STB

PROJ. No.: 20170390.J11
DATE: OCTOBER 2020

FIG. F-5

BROCKTON

CITY OF BROCKTON
INDEX MAP AND OVERALL
POST-RESTORATION FLOOD
INUNDATION MAP
BROCKTON PLAN FOR CLIMATE RESILIENCY

MASSACHUSETTS



GRAPHIC SCALE	1. No.	DATE	DESCRIPTION	XX/XX	XX REVIEWER
800 400 0 80					
VERT.:	<u> </u>				
HORZ.:					
DATUM:					
VERT.:					
HORZ.: 1"= 800'					
SCALE:					

DATE: OCTOBER 2020 FIG. F-6

POST-RESTORATION FLOOD INUNDATION MAP

BROCKTON PLAN FOR CLIMATE RESILIENCY

BROCKTON MASSACHUSETTS



CALE:					
HORZ.: 1"= 300'					
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DATE: OCTOBER 2020

POST-RESTORATION FLOOD **INUNDATION MAP**

BROCKTON PLAN FOR CLIMATE RESILIENCY

BROCKTON MASSACHUSETTS

FUSS&O'NEILL 317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908 401.861.3070 www.fando.com

SCALE:					
HORZ.: 1"= 300'					
VERT.:					
DATUM:					
HORZ.:					
VERT.:					
300 150 0 300					
	1.			xx/xx	XX
GRAPHIC SCALE	No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

POST-RESTORATION FLOOD INUNDATION MAP

BROCKTON PLAN FOR CLIMATE RESILIENCY

MASSACHUSETTS BROCKTON

FUSS&O'NEILL 317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908 401.861.3070 www.fando.com

1.			XX/XX	XX
No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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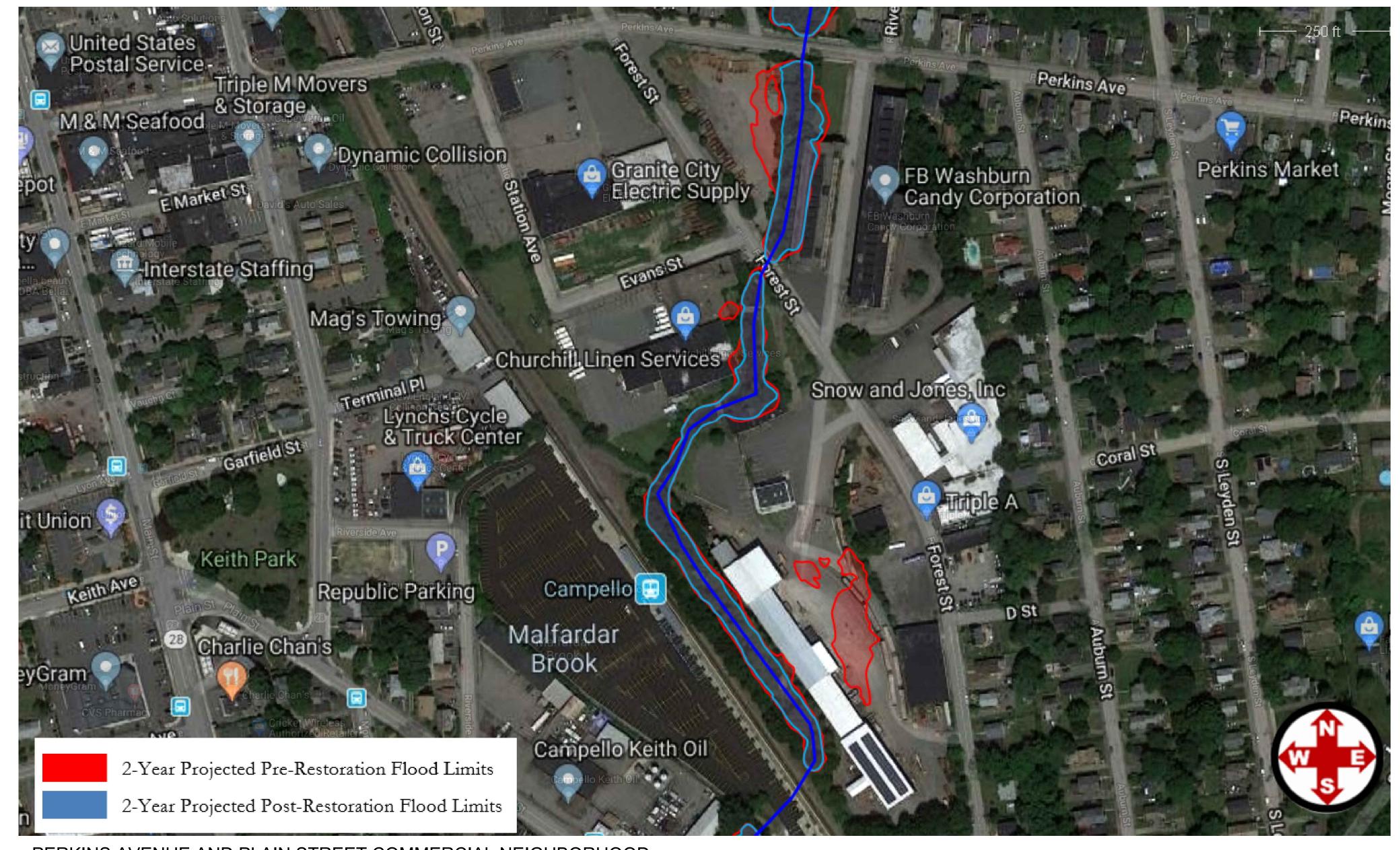
Pre- Versus Post-Conditions Projected Inundation Mapping



BELMONT AVENUE RESIDENTIAL NEIGHBORHOOD

2-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING

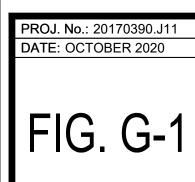
NOT TO SCALE



PERKINS AVENUE AND PLAIN STREET COMMERCIAL NEIGHBORHOOD 2-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING NOT TO SCALE

NOTE:

THE FLOOD BOUNDARIES REFLECTED ON THIS FIGURE WERE DIGITIZED FROM RESULTS OBTAINED FROM FUSS & O'NEILL'S OCTOBER 2020 HYDRAULIC (GEO-RAS) ANALYSIS FOR PRESENT-DAY AND PROJECTED FLOODING.





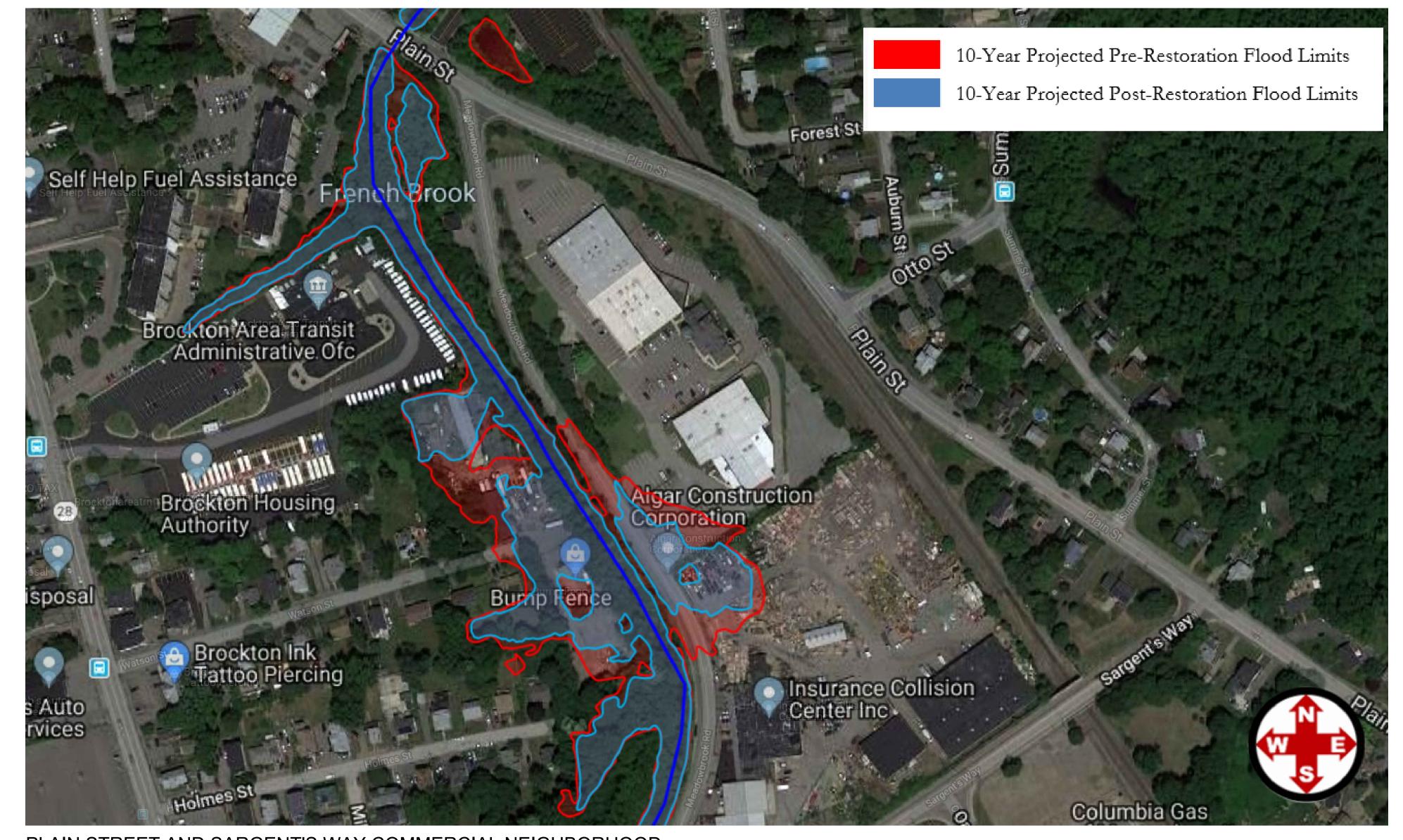
1.			XX/XX	XX
No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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BELMONT AVENUE RESIDENTIAL NEIGHBORHOOD

10-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING

NOT TO SCALE



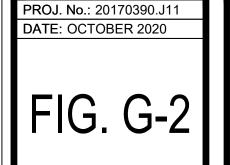
PLAIN STREET AND SARGENT'S WAY COMMERCIAL NEIGHBORHOOD

10-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING

NOT TO SCALE

NOTE:

THE FLOOD BOUNDARIES REFLECTED ON THIS FIGURE WERE DIGITIZED FROM RESULTS OBTAINED FROM FUSS & O'NEILL'S OCTOBER 2020 HYDRAULIC (GEO-RAS) ANALYSIS FOR PRESENT-DAY AND PROJECTED FLOODING.





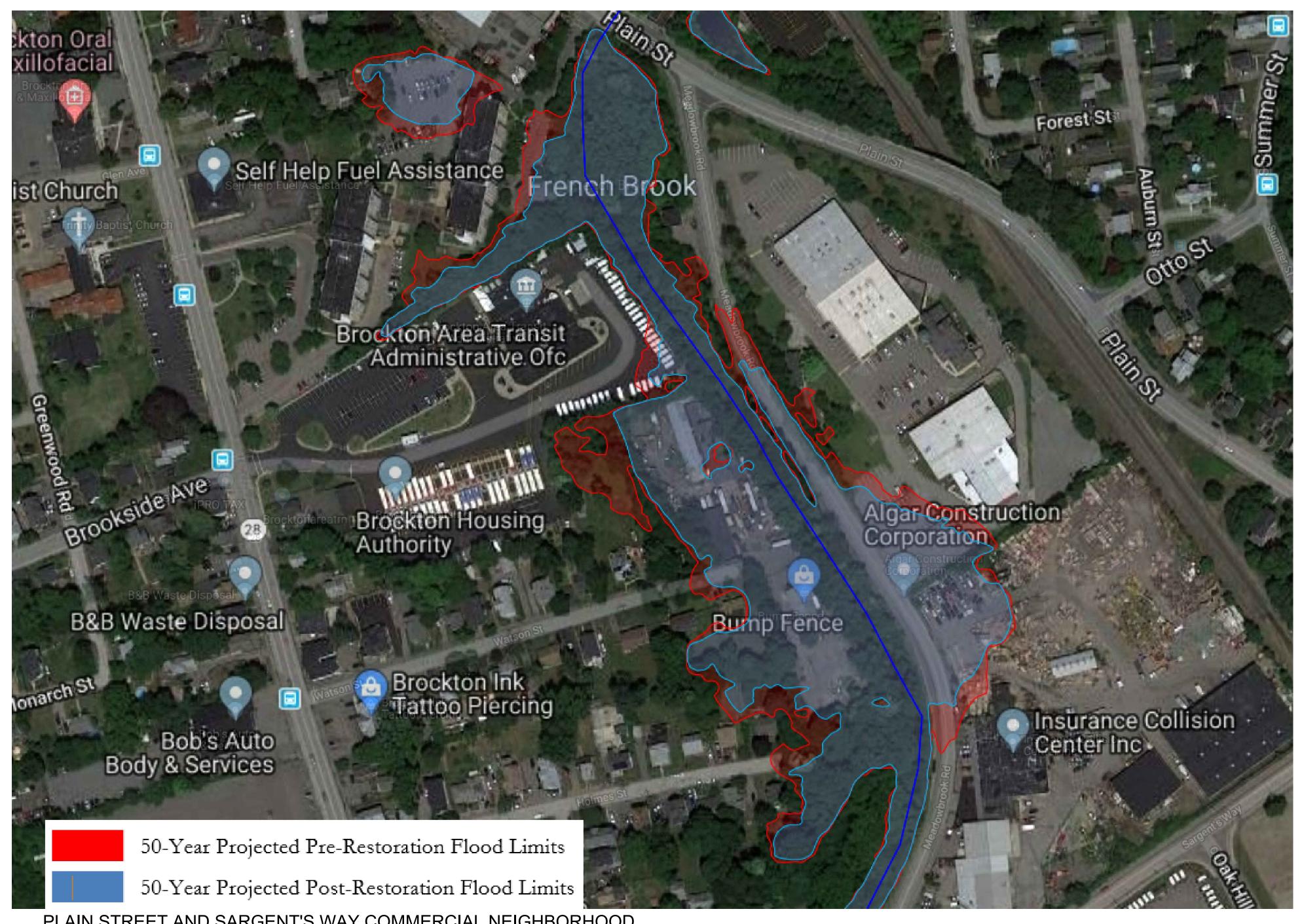




BELMONT AVENUE RESIDENTIAL NEIGHBORHOOD

50-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING

NOT TO SCALE



PLAIN STREET AND SARGENT'S WAY COMMERCIAL NEIGHBORHOOD 50-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING NOT TO SCALE

NOTE:

THE FLOOD BOUNDARIES REFLECTED ON THIS FIGURE WERE DIGITIZED FROM RESULTS OBTAINED FROM FUSS & O'NEILL'S OCTOBER 2020 HYDRAULIC (GEO-RAS) ANALYSIS FOR PRESENT-DAY AND PROJECTED FLOODING.

PROJ. No.: 20170390.J11

DATE: OCTOBER 2020

FIG. G-3



SCALE:					
HORZ.: 1"= 800'					
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ODADUIO COALE	1.			XX/XX	XX
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BELMONT AVENUE RESIDENTIAL NEIGHBORHOOD

100-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING

NOT TO SCALE



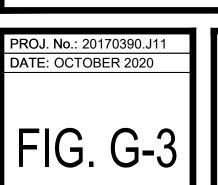
PLAIN STREET AND SARGENT'S WAY COMMERCIAL NEIGHBORHOOD

100-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING

NOT TO SCALE

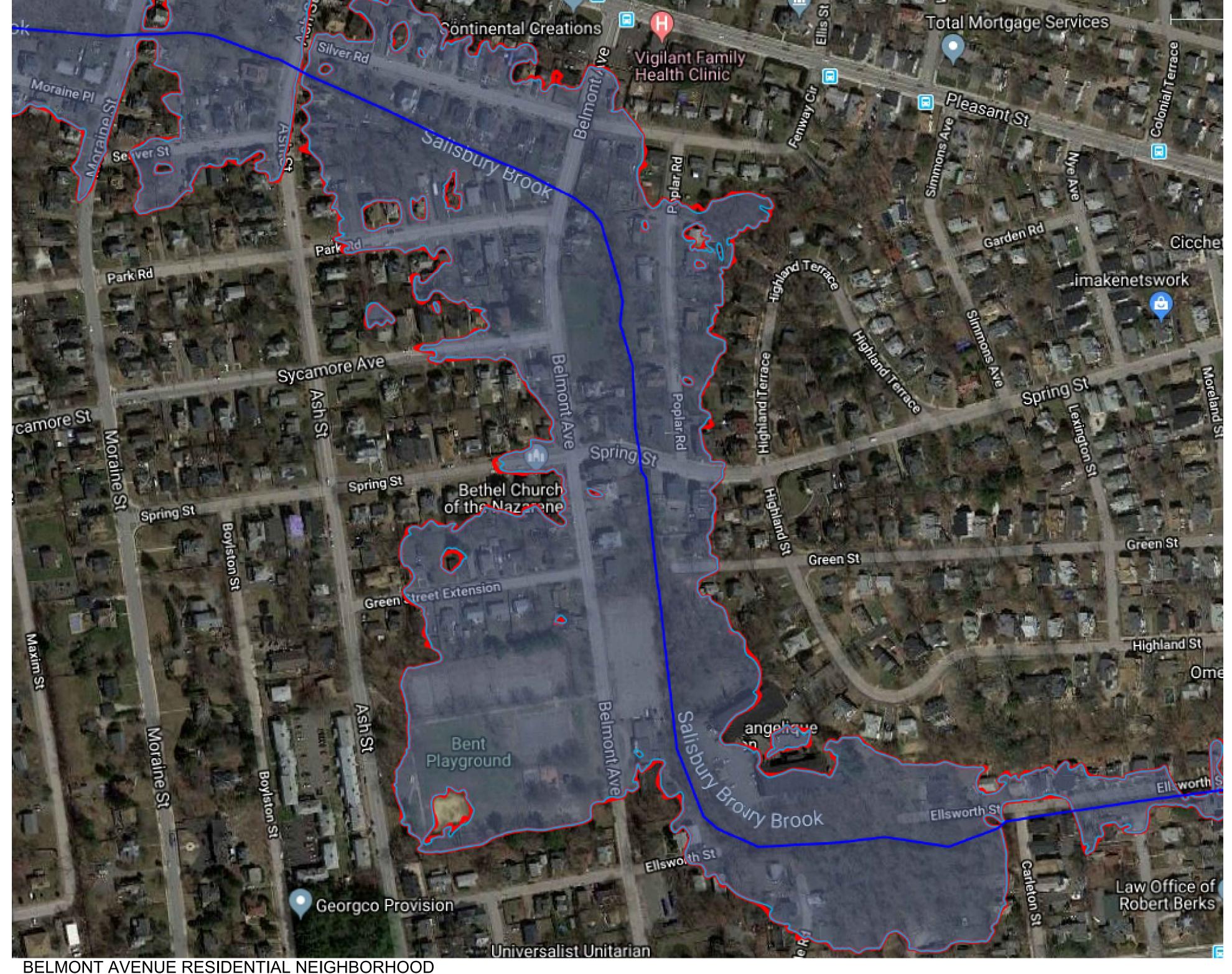
NOTE:

THE FLOOD BOUNDARIES REFLECTED ON THIS FIGURE WERE DIGITIZED FROM RESULTS OBTAINED FROM FUSS & O'NEILL'S OCTOBER 2020 HYDRAULIC (GEO-RAS) ANALYSIS FOR PRESENT-DAY AND PROJECTED FLOODING.





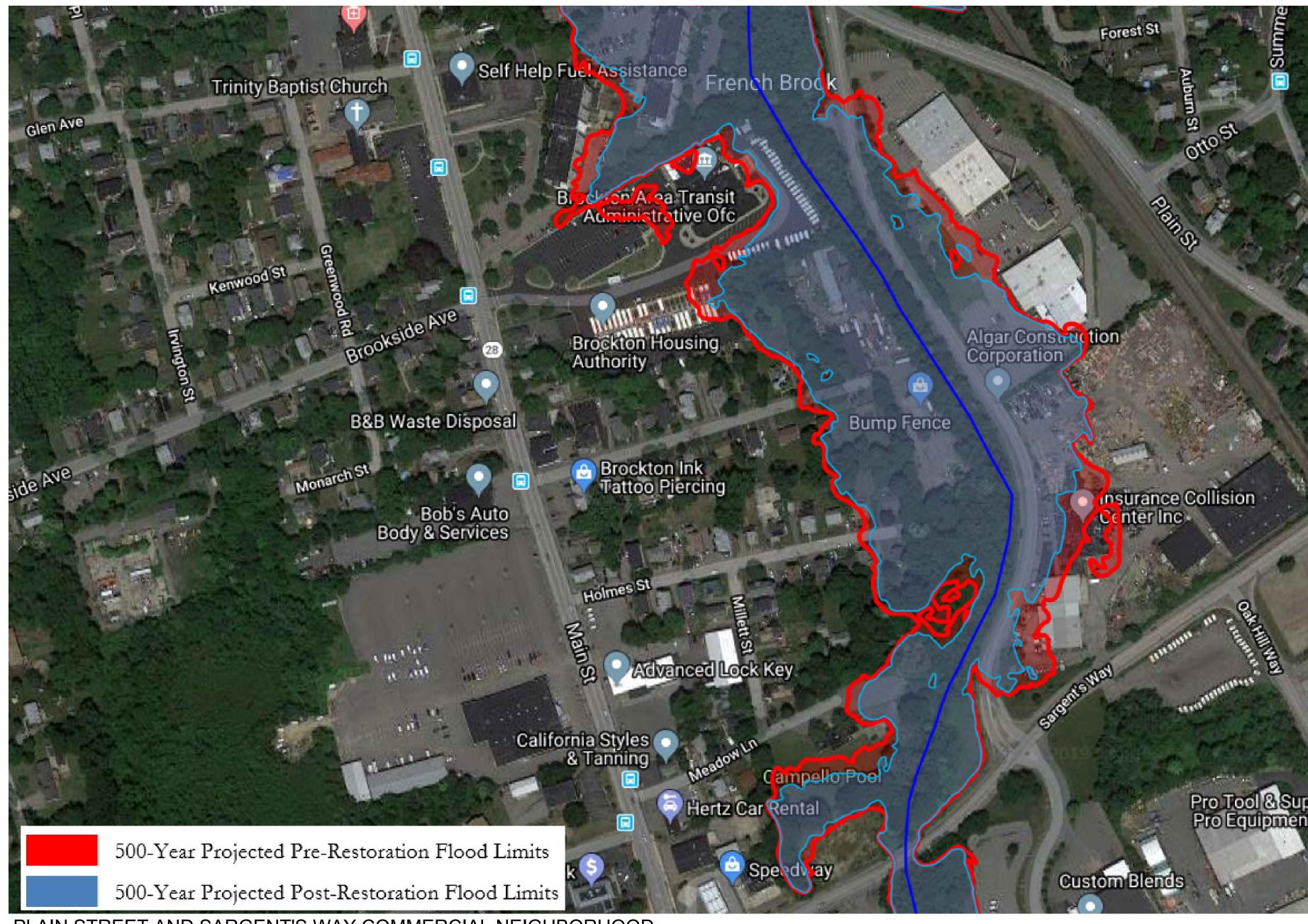
HORZ.: VERT.: 800 400 0 800	SCALE:					
DATUM: HORZ.: VERT.: 800 400 0 800	HORZ.: 1"= 800'					
HORZ.: VERT.: 800 400 0 800	VERT.:					
VERT.: 800 400 0 800	DATUM:					
800 400 0 800	HORZ.:					
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GRAPHIC SCALE No. DATE DESCRIPTION DESIGNER REVIEWE	GRAPHIC SCALE	No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



BELMONT AVENUE RESIDENTIAL NEIGHBORHOOD

500-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING

NOT TO SCALE



PLAIN STREET AND SARGENT'S WAY COMMERCIAL NEIGHBORHOOD 500-YEAR PRE- VERSUS POST-RESTORATION PROJECTED (2040) FLOODING NOT TO SCALE

NOTE:

THE FLOOD BOUNDARIES REFLECTED ON THIS FIGURE WERE DIGITIZED FROM RESULTS OBTAINED FROM FUSS & O'NEILL'S OCTOBER 2020 HYDRAULIC (GEO-RAS) ANALYSIS FOR PRESENT-DAY AND PROJECTED FLOODING.

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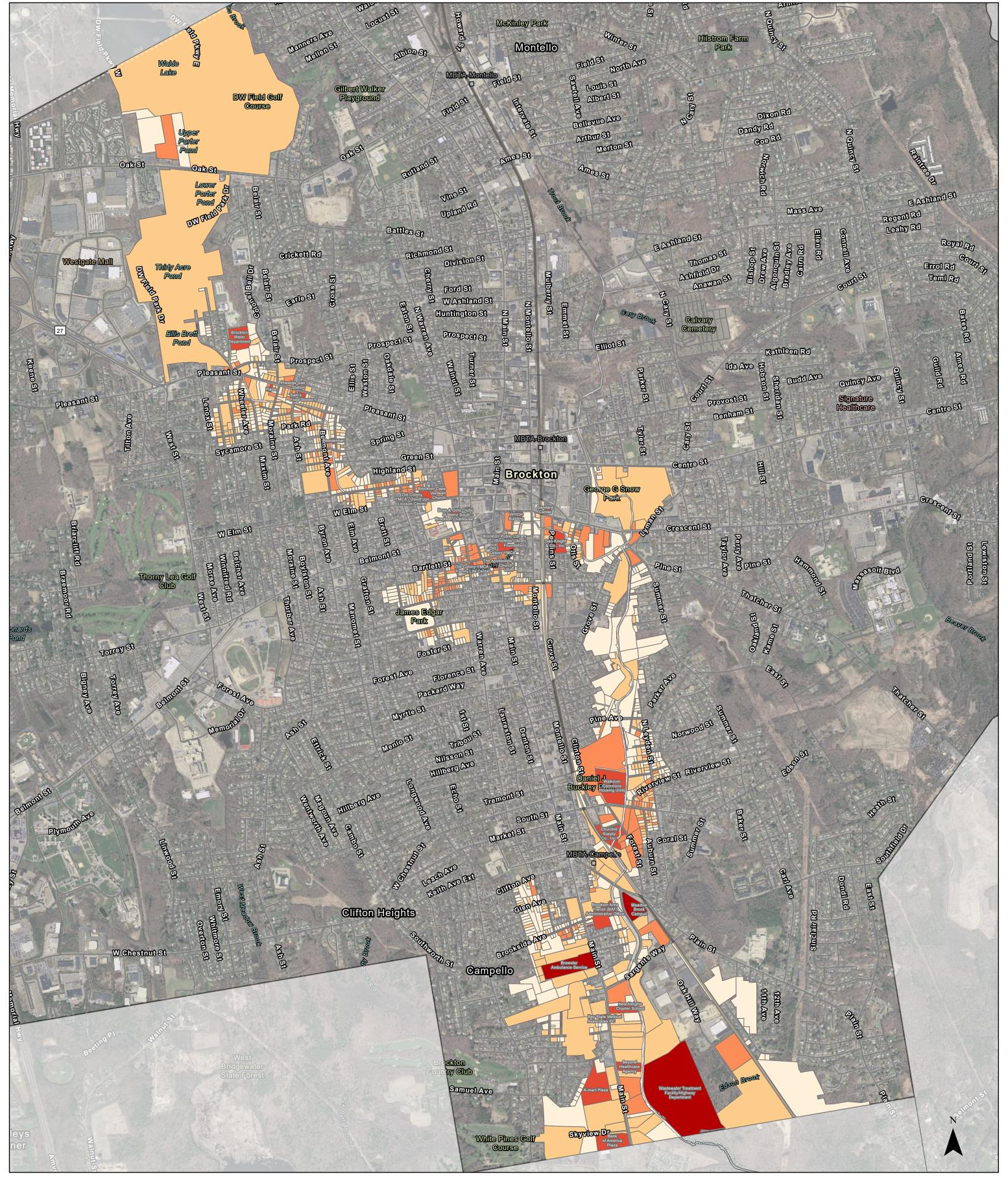
FIG. G-3



1.			XX/XX	XX
No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
	1. No.	1.	1.	1. XX/XX



Appendix B
Prioritization Mapping



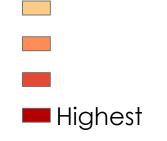
PARCEL RISK SCORES BROCKTON, MA



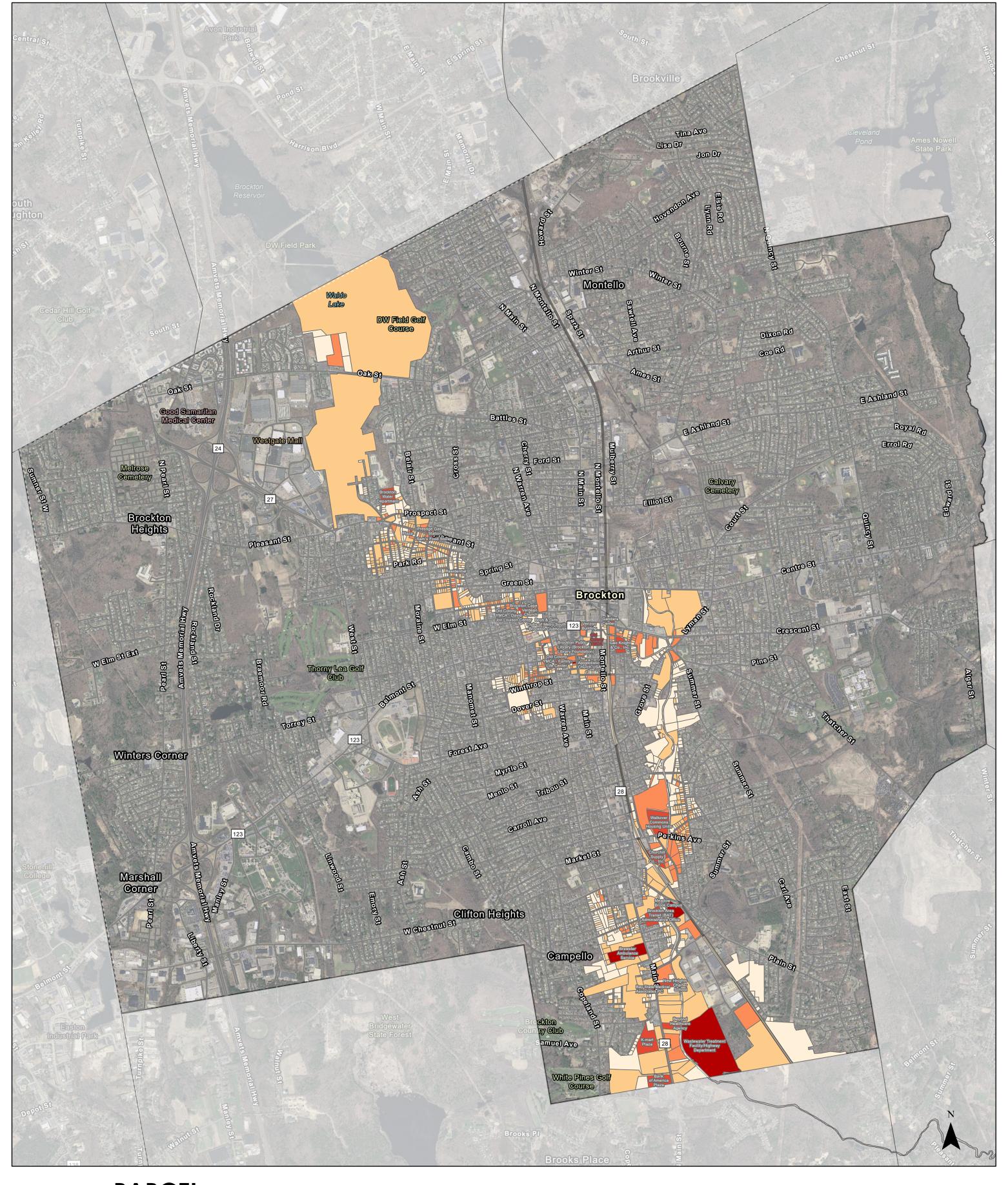


Normalized Risk Score

Lowest







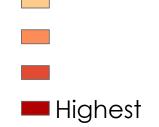
PARCEL RISK SCORES BROCKTON, MA

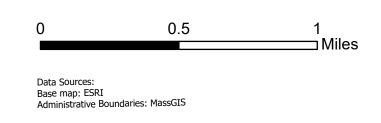


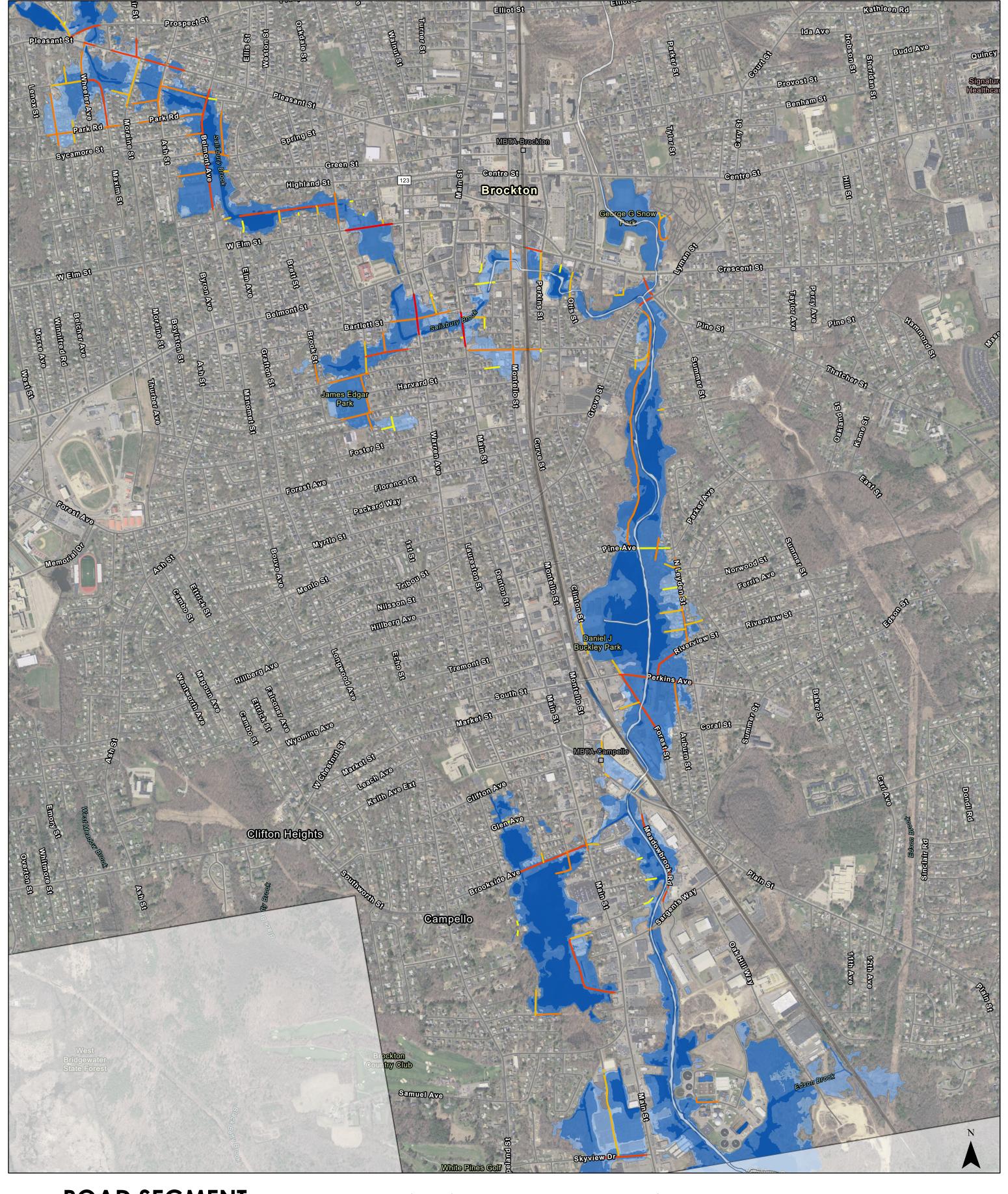


Normalized Risk Score

Lowest







ROAD SEGMENT RISK SCORES

BROCKTON, MA



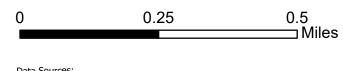
Normalized Risk Score

Lower_

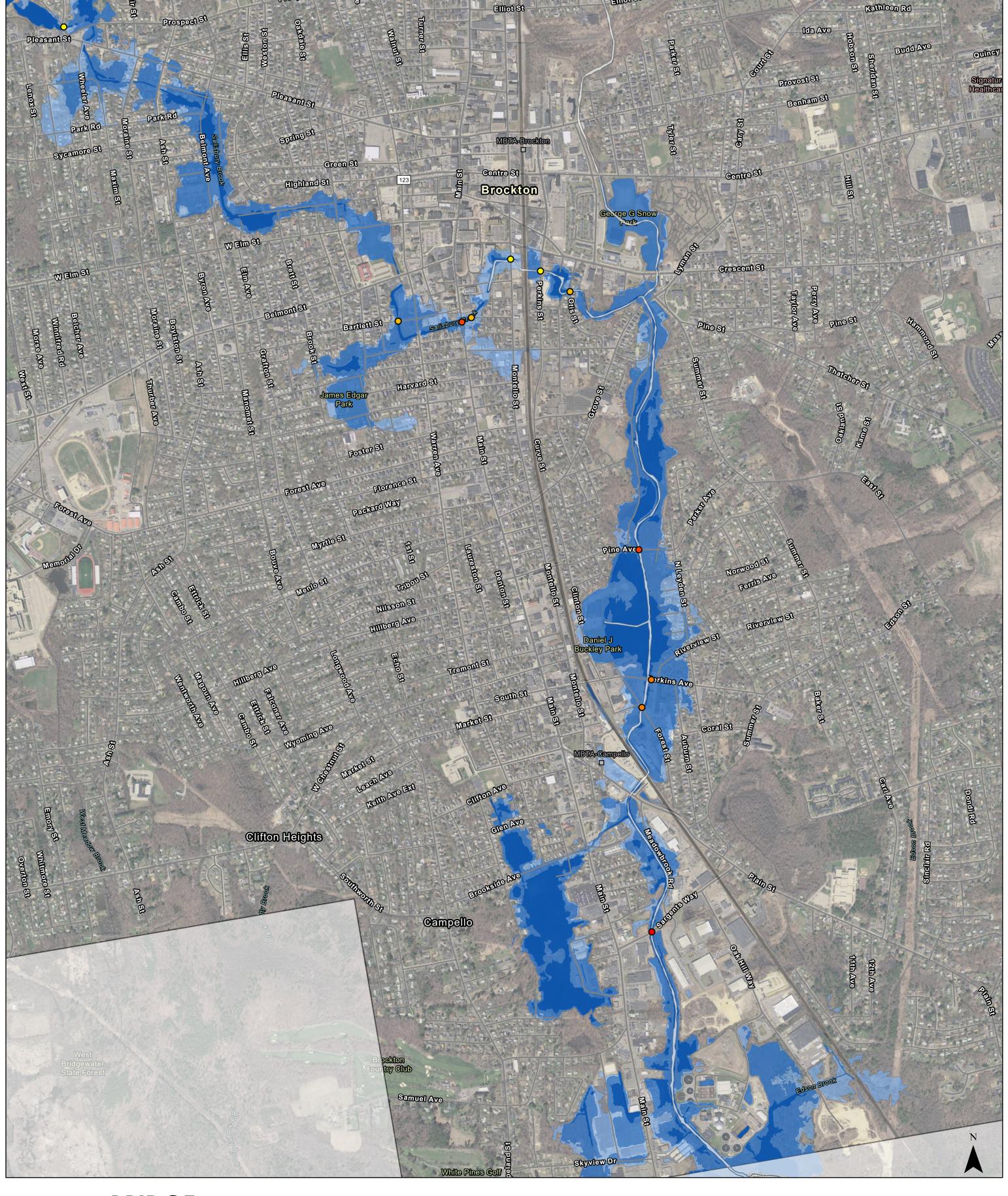
— Higher

Modeled Floodplains

2-Year Floodplain100-Year Floodplain500-Year Floodplain



Data Sources: Base map: ESRI Administrative Boundaries: MassGIS



BRIDGE RISK SCORES BROCKTON, MA





Normalized Risk Score

Lowest

0

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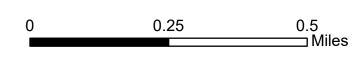
Highest

Modeled Floodplains

2-Year Floodplain

100-Year Floodplain

500-Year Floodplain



Data Sources: Base map: ESRI Administrative Boundaries: MassGIS



Financial assistance was provided by the Executive Office of Energy & Environmental Affairs (EEA) under the FY19 Municipal Vulnerability Preparedness (MVP) Grant Program. The MVP Action Grant offers financial resources to municipalities that are seeking to advance priority climate adaptation actions to address climate change impacts resulting from extreme weather, sea level rise, inland and coastal flooding, severe heat, and other climate impacts.



Consultant Team

Fuss & O'Neill, Inc. – Julianne Busa, PhD; Sean Arruda, PE, CFM; Dean Audet, PE; Liz Isenstein, MSc, EIT; Nelson Tull, EIT; Sarah Hayden, MBA, MSc; Arnold Robinson, AICP

Document photos and graphics produced by Fuss & O'Neill unless otherwise noted.