

# SR 2108-A12 – Forbes Avenue Betterment



City of Pittsburgh

Carnegie Mellon University



University of  
Pittsburgh



U.S. Department of Transportation  
Federal Highway  
Administration



March 1, 2018

# Introductions

- Project Team
  - PENNDOT
    - Cheryl Moon-Sirianni, PE; District Executive
    - Jason Zang, P.E.; Acting Assistant District Executive-Construction
    - John J. Zelesnak, PE; Project Manager-Design
    - John Myler; Assistant Construction Manager – 412.429.5063 – [jmyler@pa.gov](mailto:jmyler@pa.gov)
    - Jonathan Grimm; Project Manager-Construction – 609.214.0931 – [jogrimm@pa.gov](mailto:jogrimm@pa.gov)
  - WRA
    - Eric C. Meyer, PE; Project Manager
    - Daniel Fritz, PE; Senior Project Engineer
    - Tyler Steele, PE; Project Engineer
  - OTMA <http://www.otma-pgh.org/>
    - Mavis Rainey; Executive Director – 412.687.4505
  - Gulisek
    - Jonathan Gesinski, P.E.; Project Manager - 412.354.9207 - [Jonathan.Gesinski@gulisek.com](mailto:Jonathan.Gesinski@gulisek.com)
    - Brandon Farrell; Project Engineer – 724.809.5804 - [Brandon.Farrell@gulisek.com](mailto:Brandon.Farrell@gulisek.com)
    - Terry Kostelnik; Daytime Superintendent – 724.640.7104 - [Terrance.Kostelnik@gulisek.com](mailto:Terrance.Kostelnik@gulisek.com)
    - Richard Dickson; Nighttime Superintendent – 724.640.7108 - [Richard.Dickson@gulisek.com](mailto:Richard.Dickson@gulisek.com)
  - Lindy Paving
    - Dave Kauer; Project Manager – 724.333.6614 - [DKauer@lindypaving.com](mailto:DKauer@lindypaving.com)
    - Eric Yauger; Project Engineer – 724.208.9474 - [Eric.Yauger@lindypaving.com](mailto:Eric.Yauger@lindypaving.com)
    - C.J. Grant; Superintendent – 724.333.6758 - [Charles.Grant@lindypaving.com](mailto:Charles.Grant@lindypaving.com)
  - Vantage Corporation
    - Craig Thomas; Project Manager – 412.429.4750 – [Craig.Thomas@vantagewbe.com](mailto:Craig.Thomas@vantagewbe.com)



# Agenda

- Overview of Project
- Project Improvements
- Maintenance and Protection of Traffic
- Schedule
- Q and A

# Project Description

- SR 2108-A12 – Forbes Avenue Betterment
- Birmingham Bridge to Margaret Morrison Street
  - Resurfacing (mill/overlay) of the corridor
  - Concrete pavement patching
  - Grade Adjustments of existing Inlets, Manholes and Utility Valve Boxes.
  - Eleven (11) New Traffic Signals with full pedestrian and Americans with Disabilities Act (ADA) compliant upgrades
  - Six (6) Traffic Signal Upgrades at existing traffic signals
  - Bicycle Improvements between Bigelow Blvd. and Margaret Morrison Street
  - Converting existing four lanes to two lanes w/ center turn lane and bike lanes in each direction from Craig St. to Margaret Morrison St.

# Pedestrian Improvements

## ➤ Physical Improvements

- Upgraded ADA curb ramps
- High visibility crosswalks (piano keys)
- New Stop Bars
- New Pedestrian countdown heads
- Audible signals/push buttons

## ➤ Operational Improvements

- Leading/advance pedestrian walk phase at all intersections except Forbes Ave/Morewood Ave and Forbes Ave/S. Craig St, which will remain an all-walk phase
- New signalized pedestrian crossing between Bouquet St and Bigelow Blvd/Schenley Dr



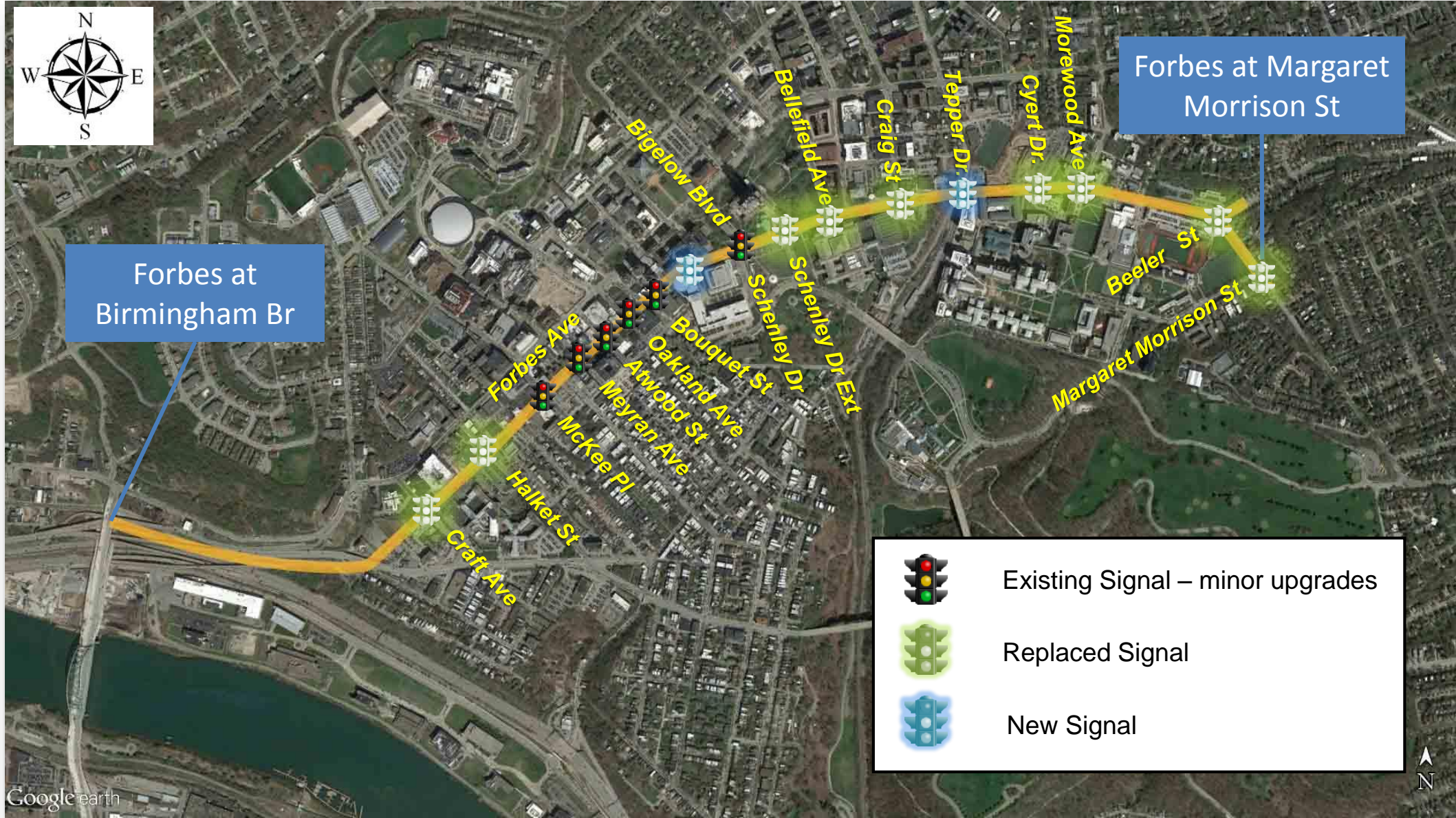
# Bicycle Improvements

- New bike lanes between Bigelow Blvd/Schenley Dr and Margaret Morrison St
- Completes connectivity to existing bike facilities
- Two-stage left turns (Curb Cuts at T intersections)
- Minimum 5' width bike lanes with a 2'-4' painted buffer where space permits
- New bicycle safe inlet grates
- New and updated signing and signals for bike infrastructure



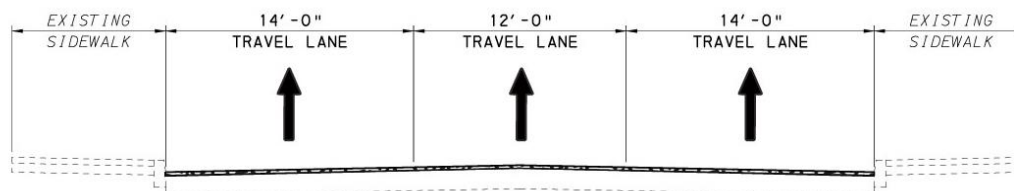


# Project Overview – SR 2108- A12 Forbes Avenue Betterment Project



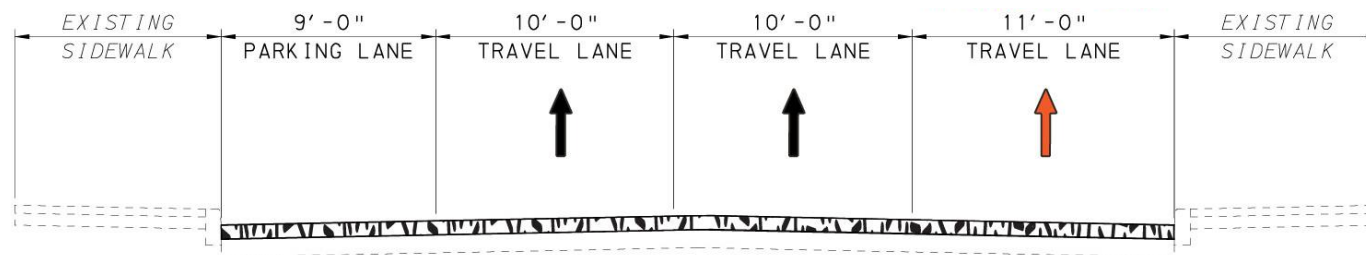


# Birmingham Bridge to Craft Avenue (Zone 1)



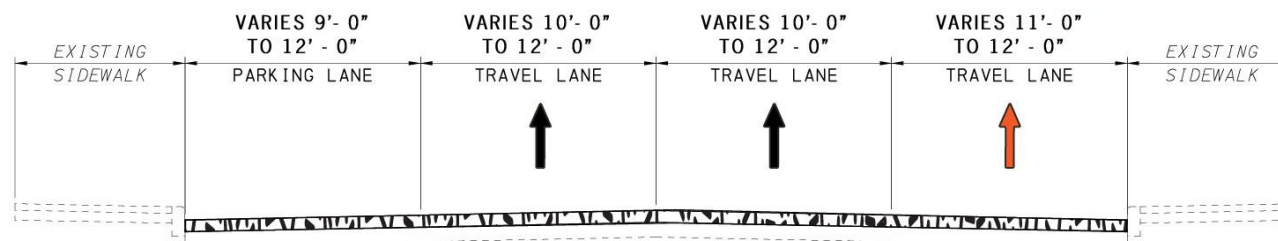
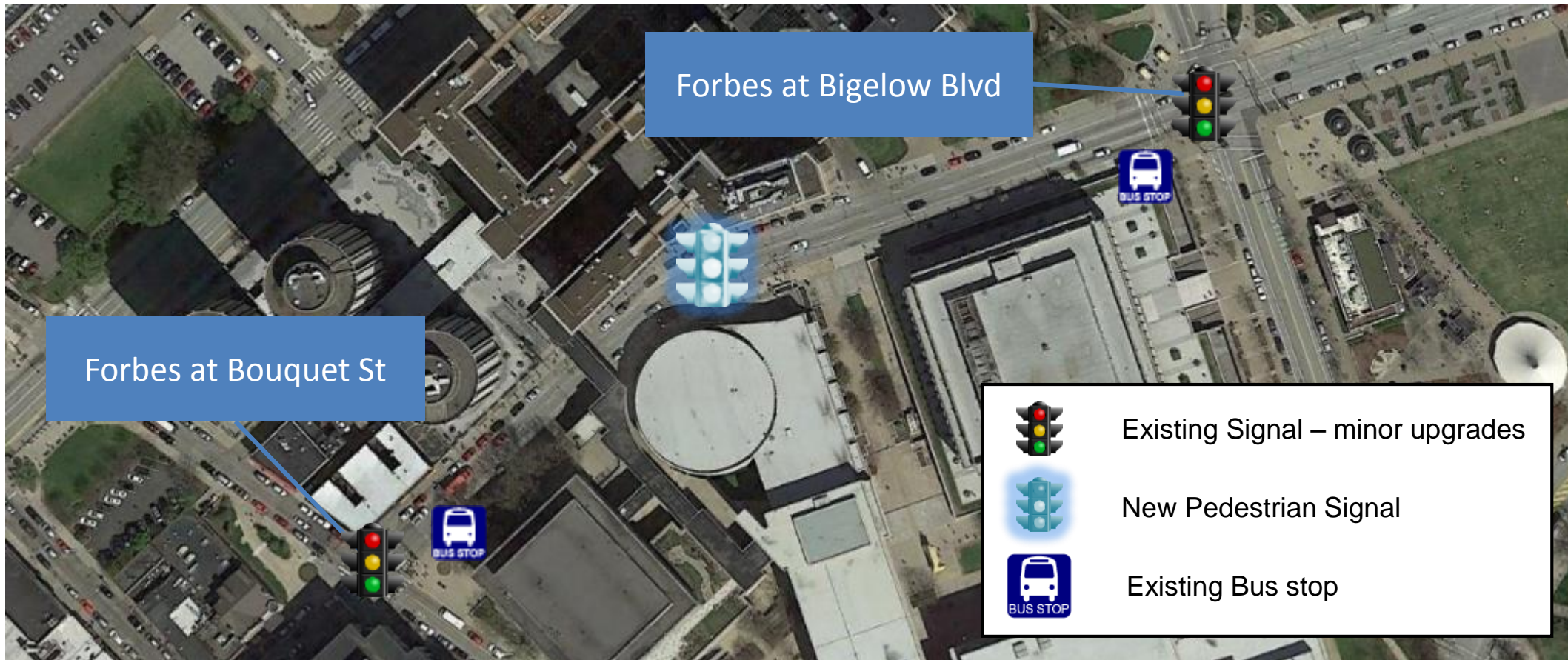


# Craft Avenue to Bouquet Street (Zone 2)



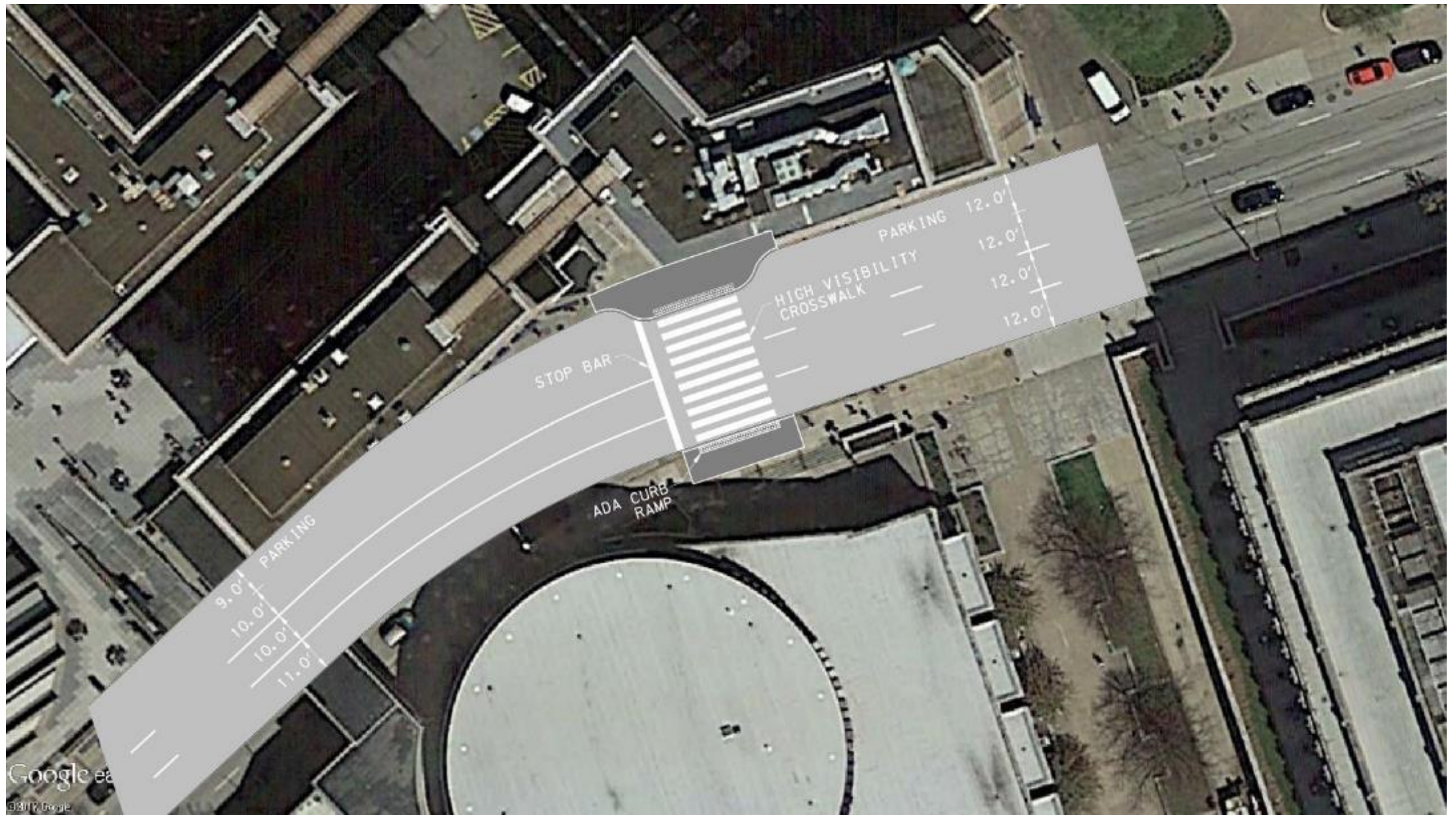


# Bouquet Street to Bigelow Blvd (Zone 2)



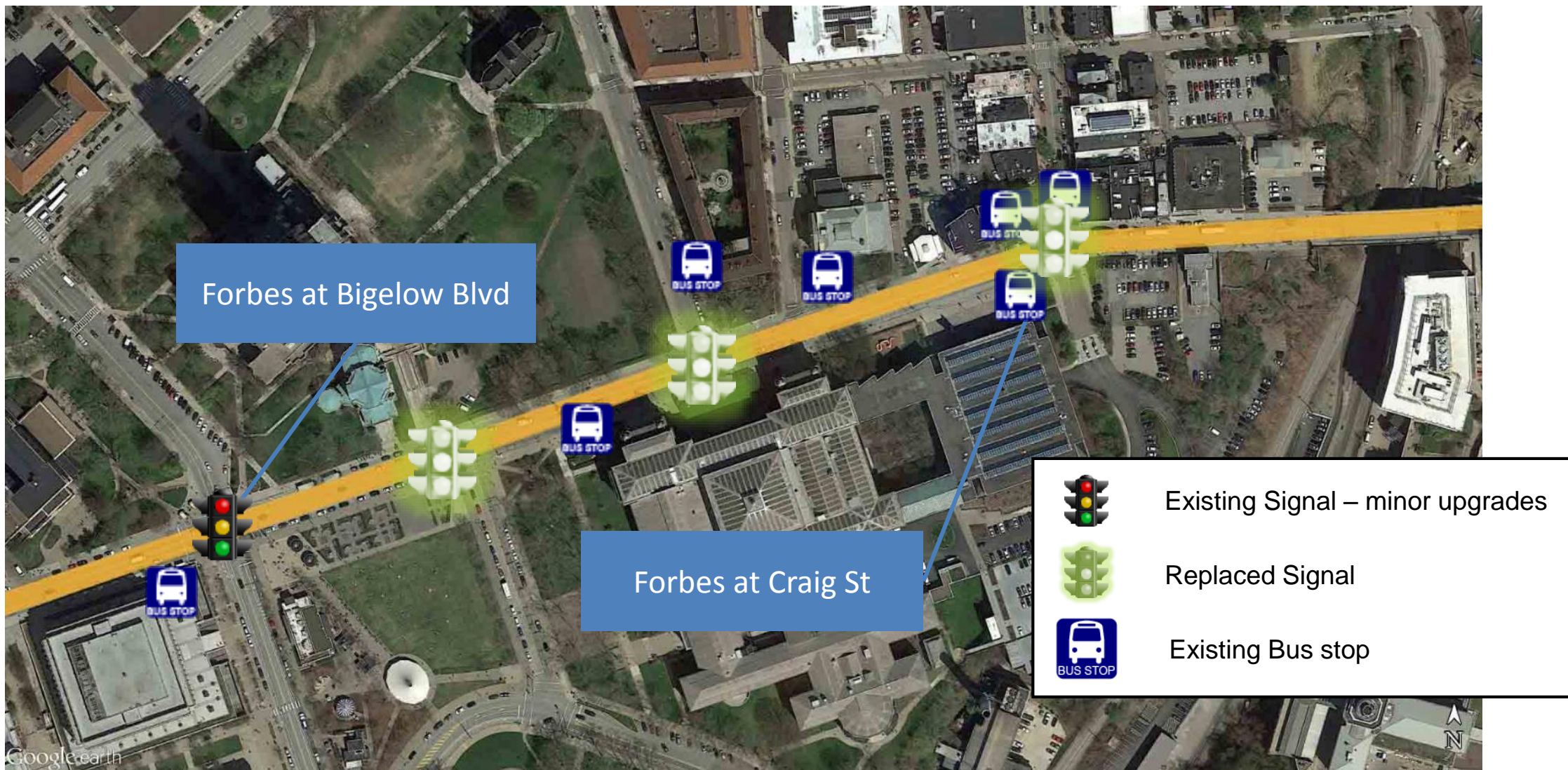


# New Traffic Signal



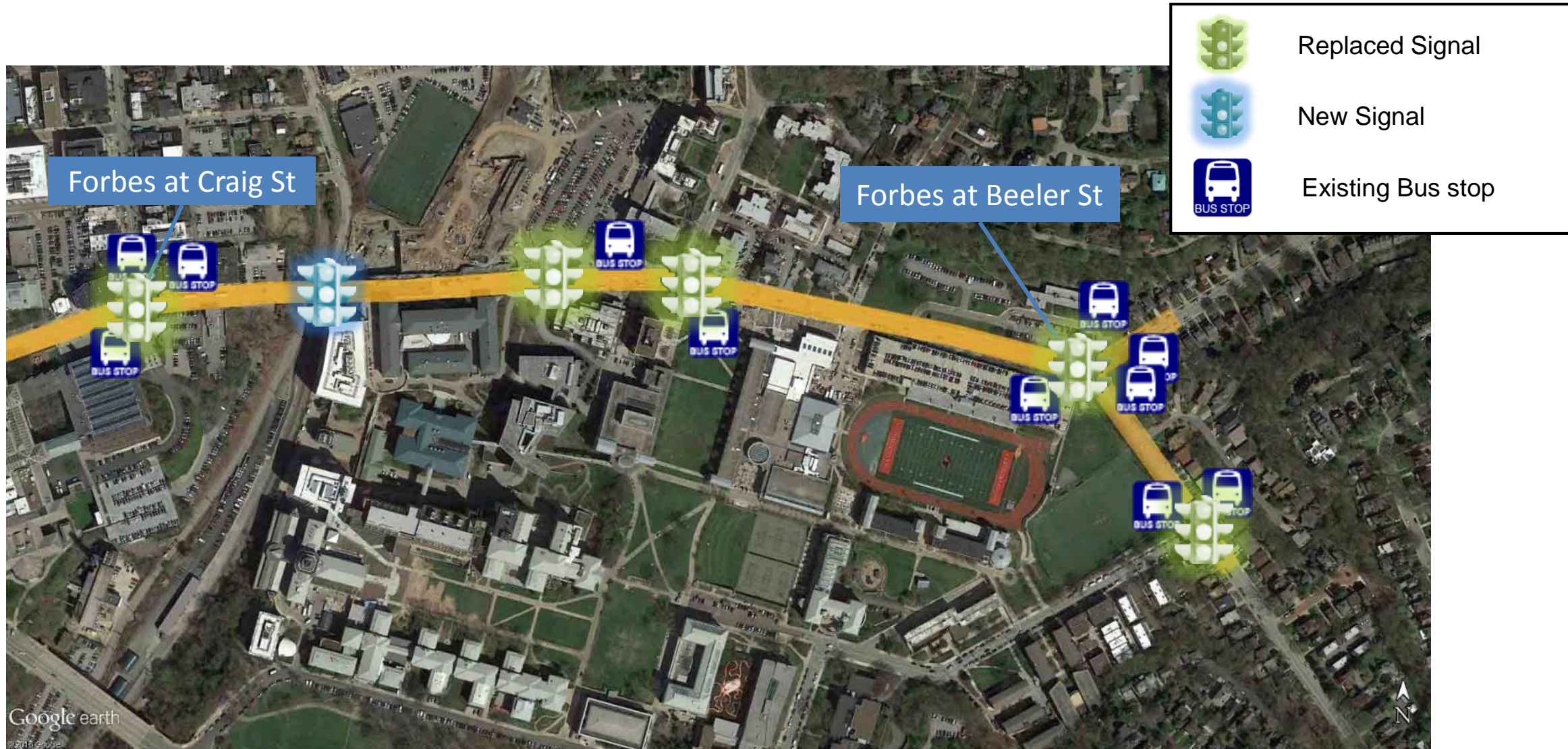


# Bigelow Blvd to Craig Street (Zone 2)





# Craig Street to Beeler Street (Zone 3)

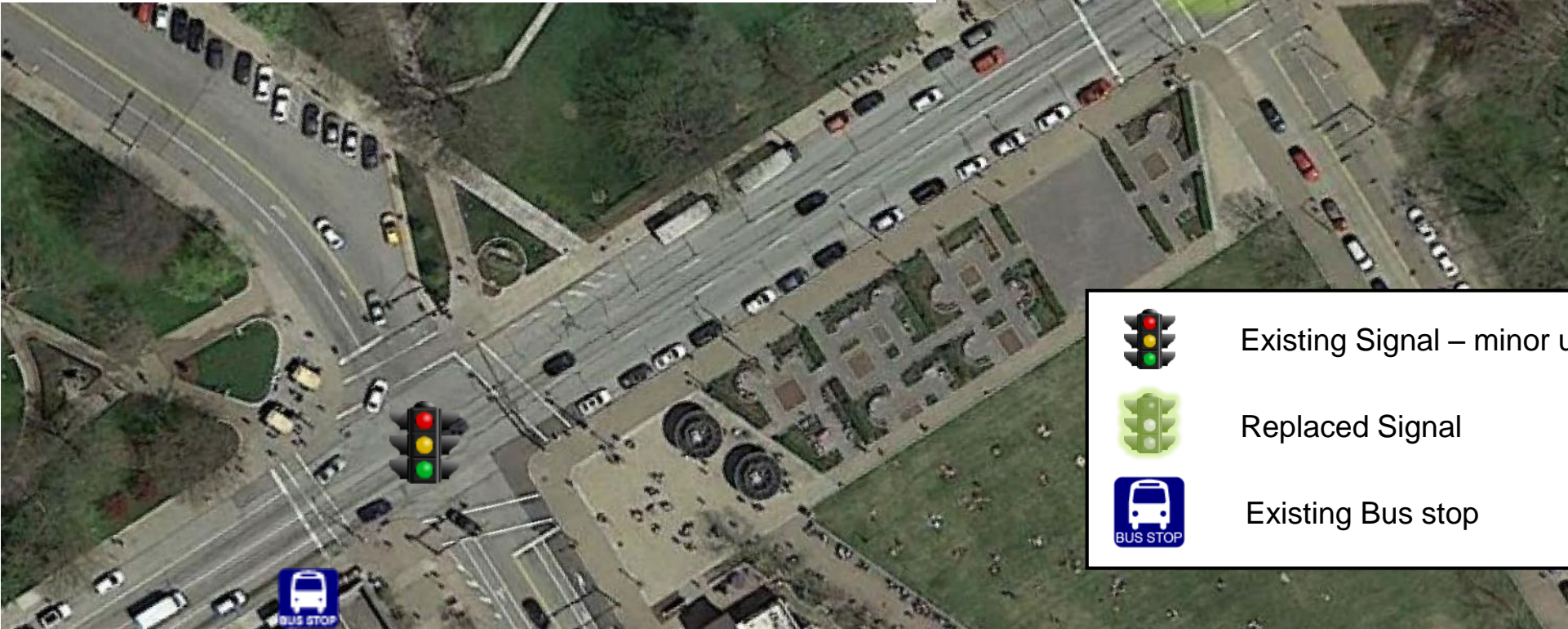
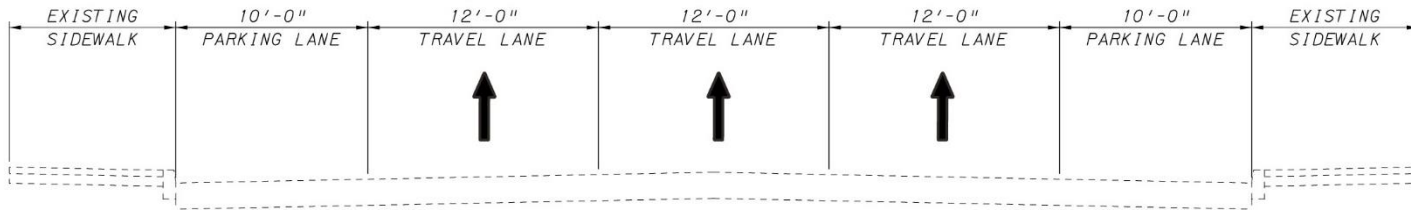




# Existing Intersection Configurations

## Forbes Avenue at Bigelow Blvd/Schenley Drive & Schenley Drive Extension

EXISTING



Existing Signal – minor upgrades



Replaced Signal



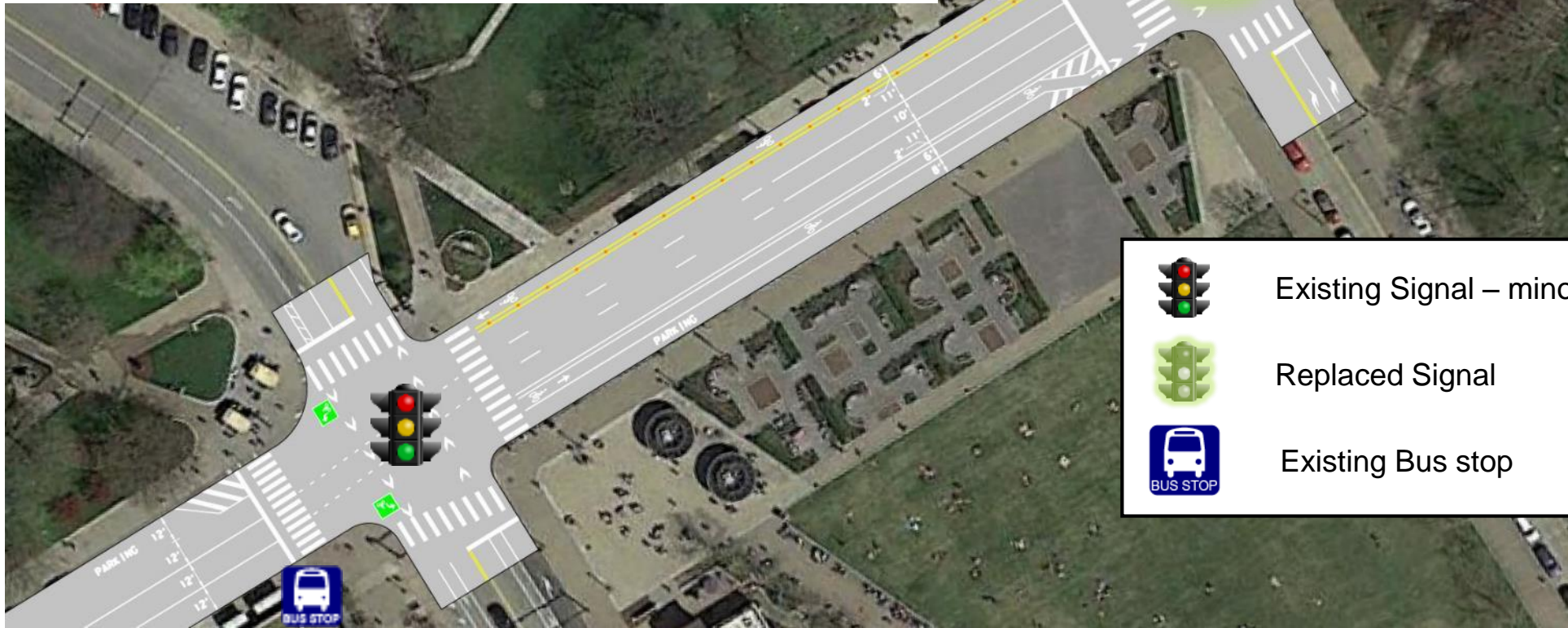
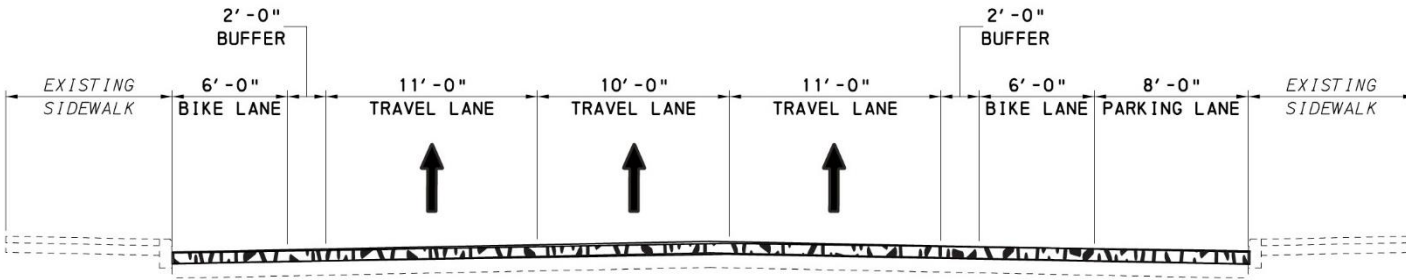
Existing Bus stop



# Proposed Intersection Configurations

## Forbes Avenue at Bigelow Blvd/Schenley Drive & Schenley Drive Extension

PROPOSED



Existing Signal – minor upgrades



Replaced Signal



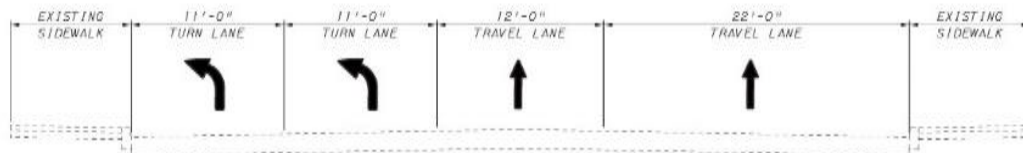
Existing Bus stop

# Existing Intersection Configurations

## Forbes Avenue at Bellefield Avenue

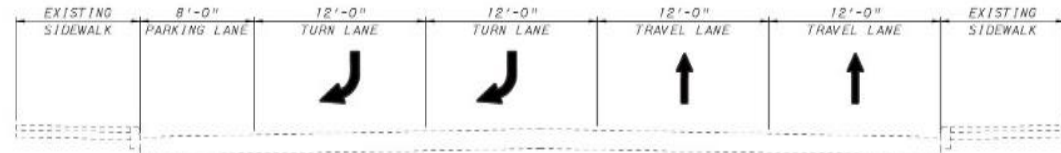


EXISTING



Schenley Dr. Ext to Bellefield Ave

EXISTING

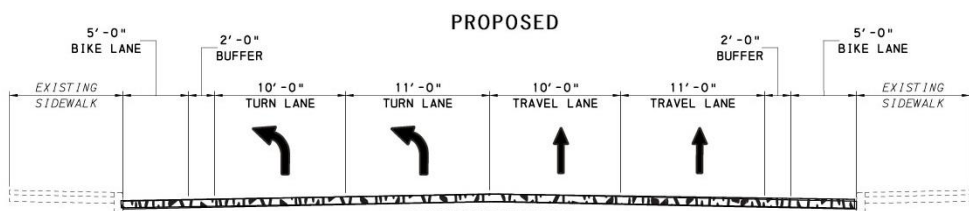


Bellefield Avenue to Craig Street

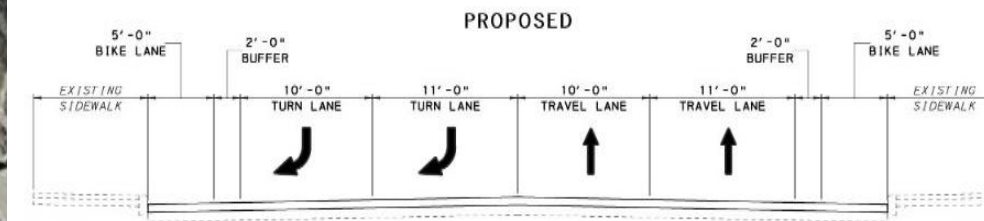


# Proposed Intersection Configurations

## Forbes Avenue at Bellefield Avenue



Schenley Dr. Ext to Bellefield Ave

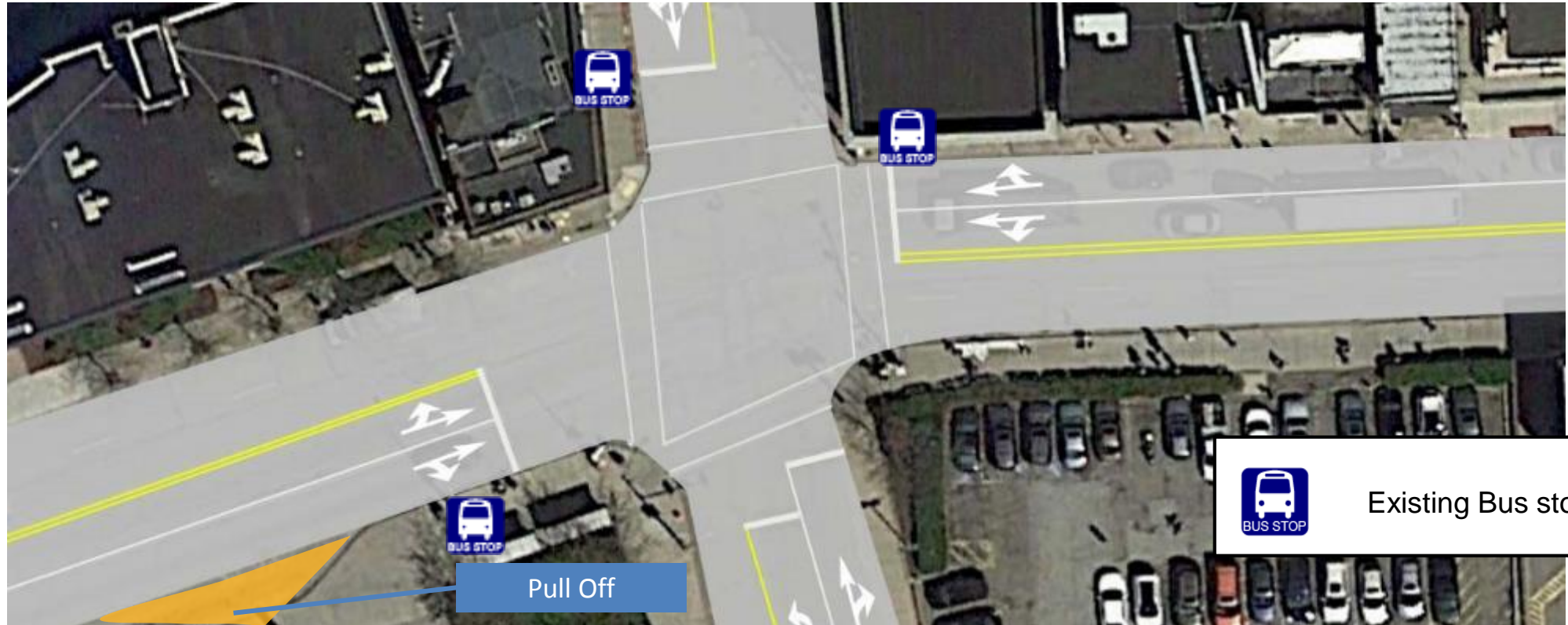


Bellefield Avenue to Craig Street

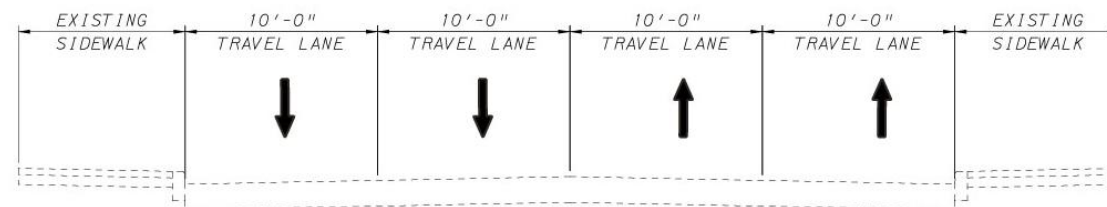


# Existing Intersection Configurations

## Forbes Avenue at Craig Street

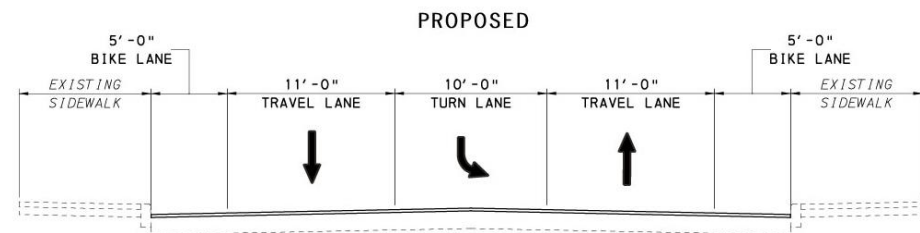
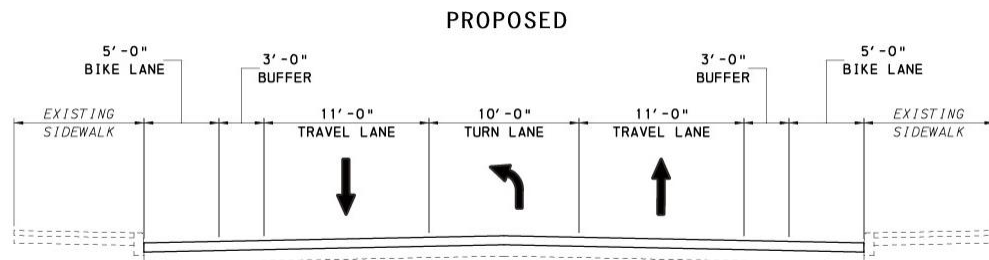
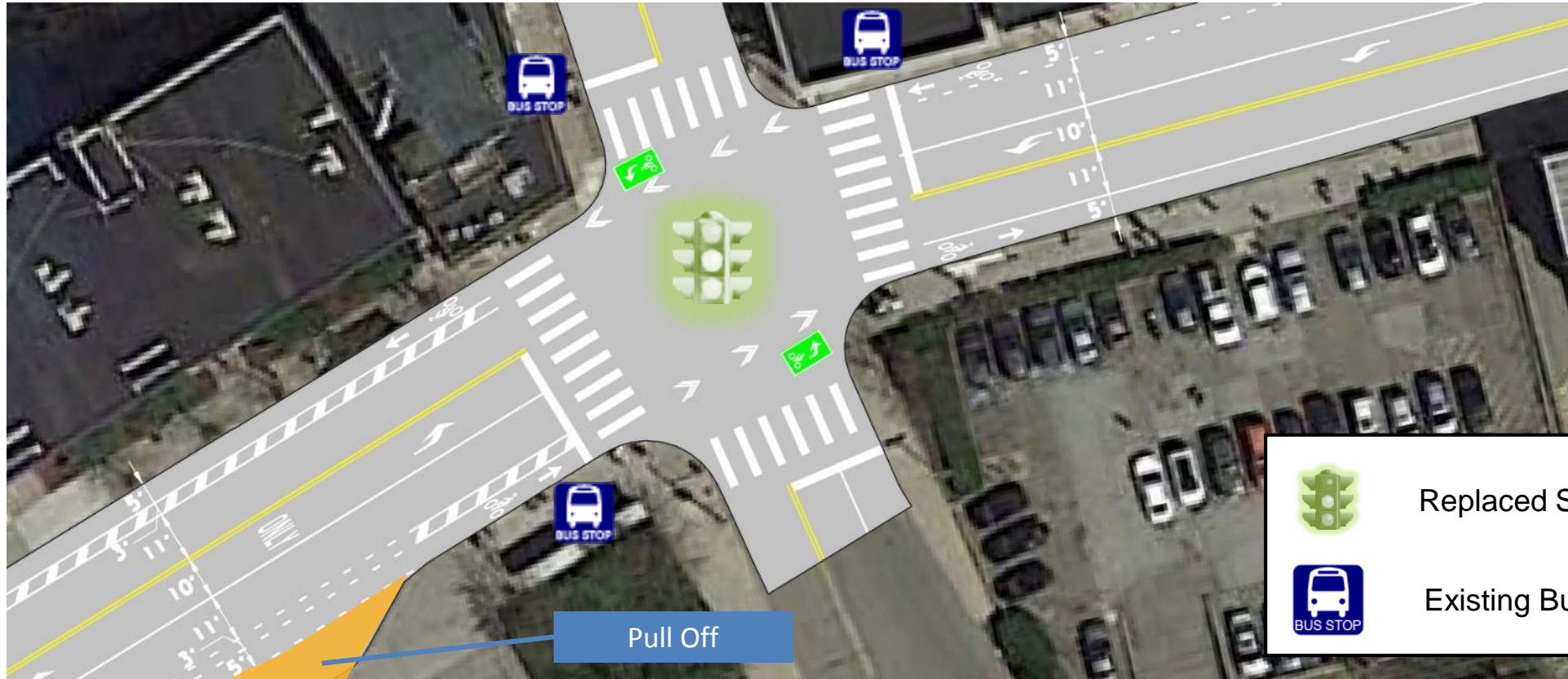


EXISTING



# Proposed Intersection Configurations

## Forbes Avenue at Craig Street

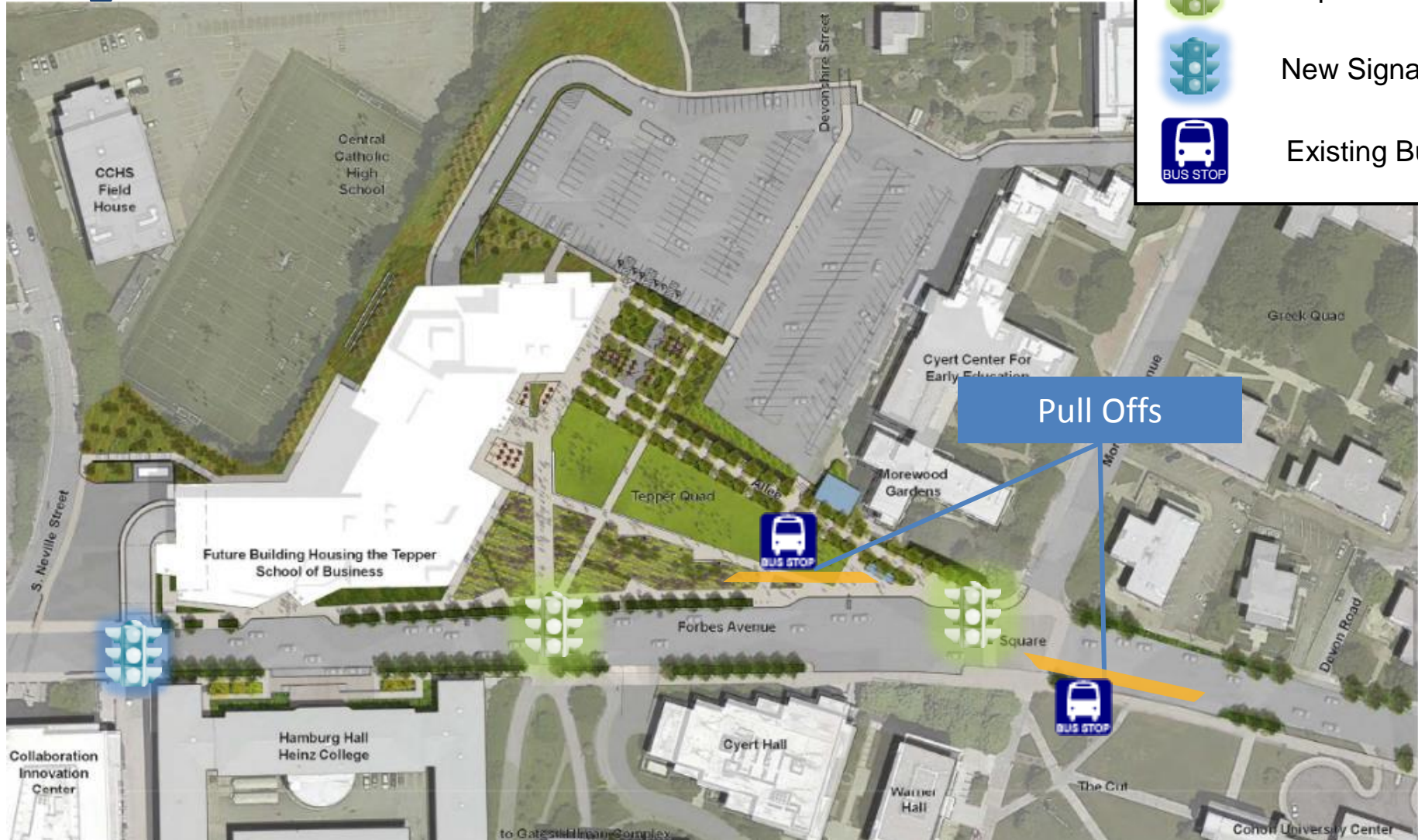




# Corridor Improvements

Carnegie Mellon University

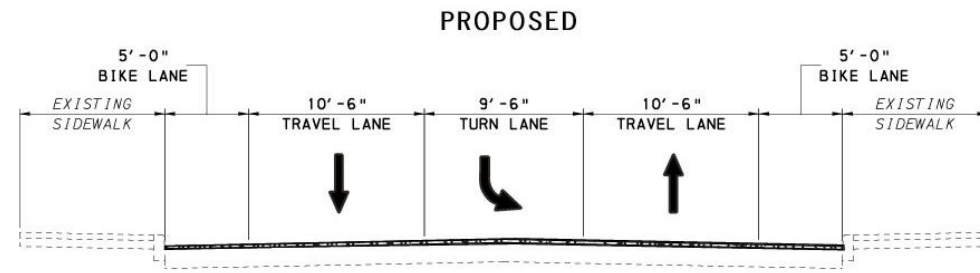
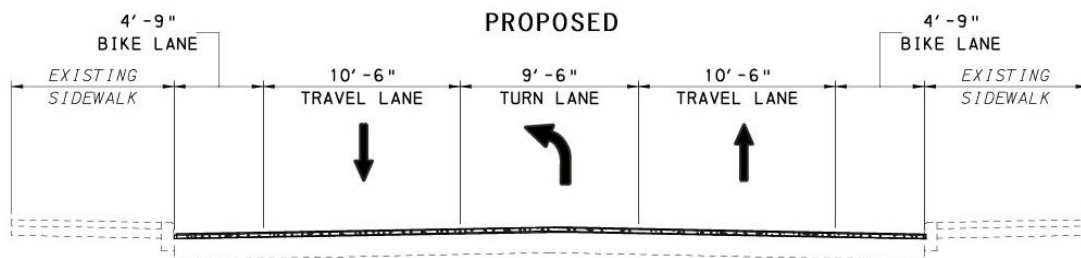
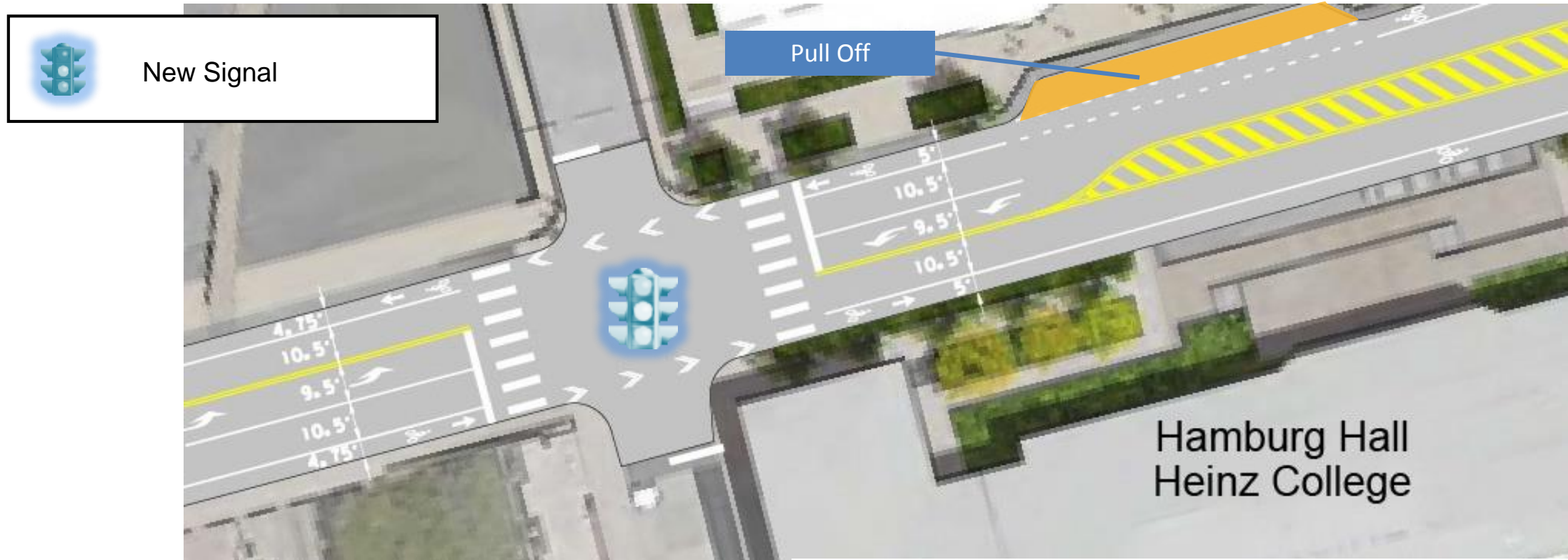
## Tepper Quadrangle





# Proposed Intersection Configurations

## Forbes Avenue at CIC Drive and Tepper Garage Ramp



# Proposed Intersection Configurations

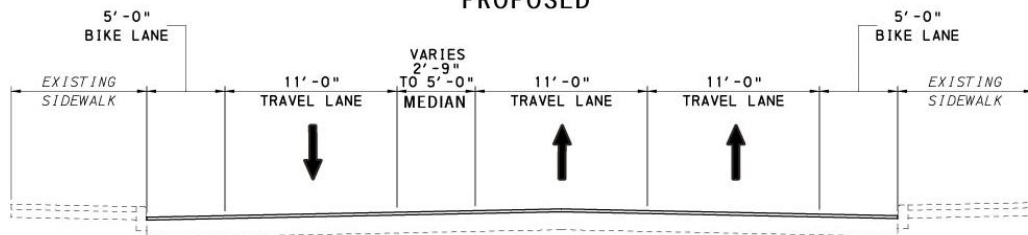
## Forbes Avenue at Cyert Drive



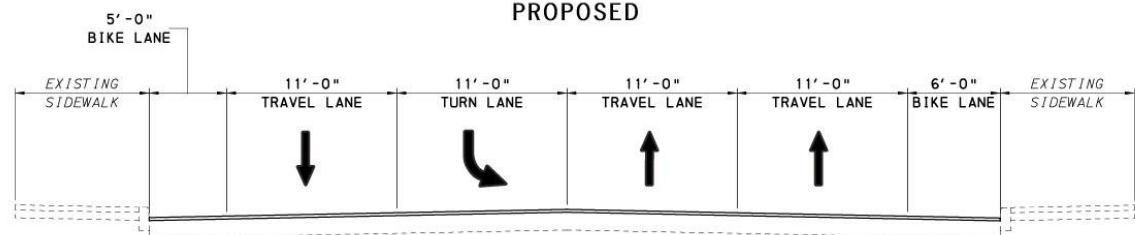
Relocated and Replaced Signal



PROPOSED



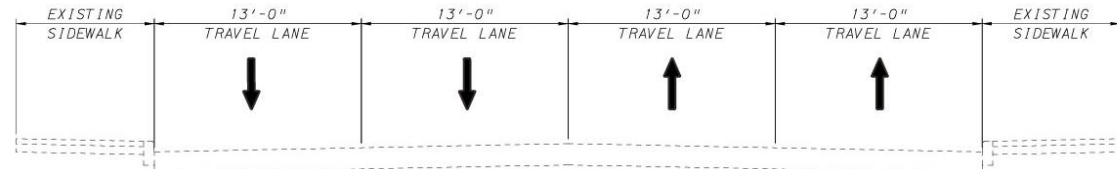
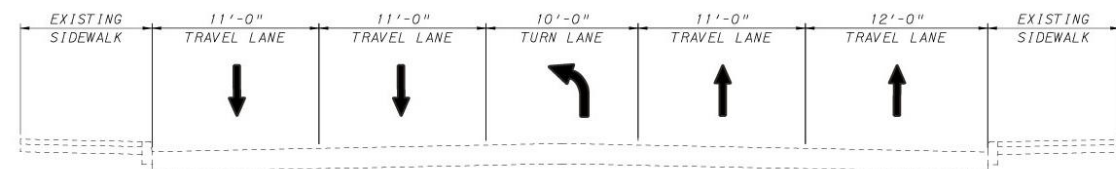
PROPOSED





# Existing Intersection Configurations

## Forbes Avenue at Morewood Avenue

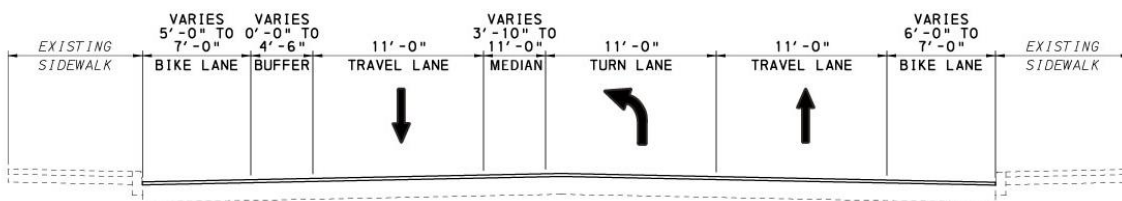


# Proposed Intersection Configurations

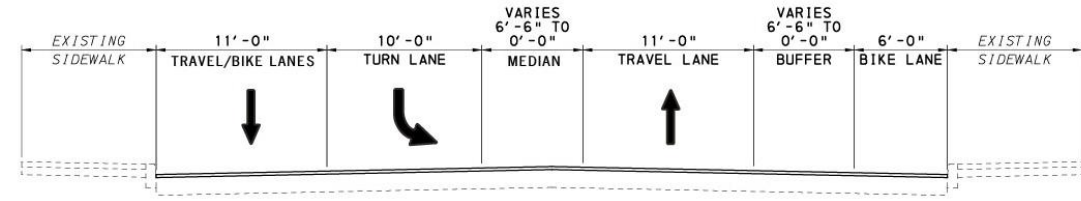
## Forbes Avenue at Morewood Avenue



PROPOSED



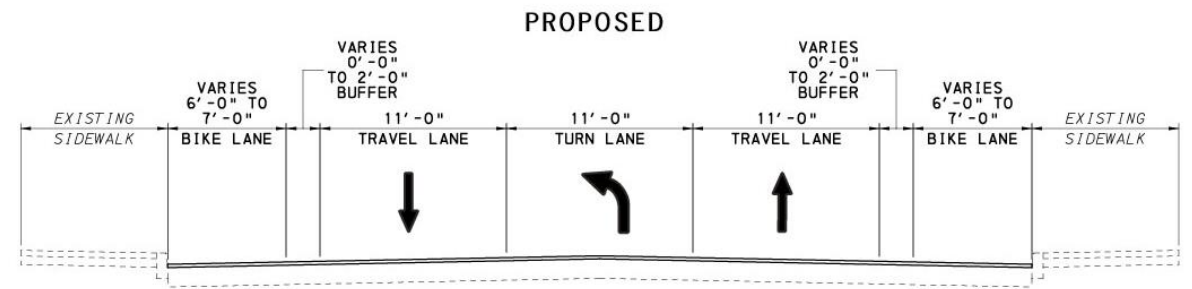
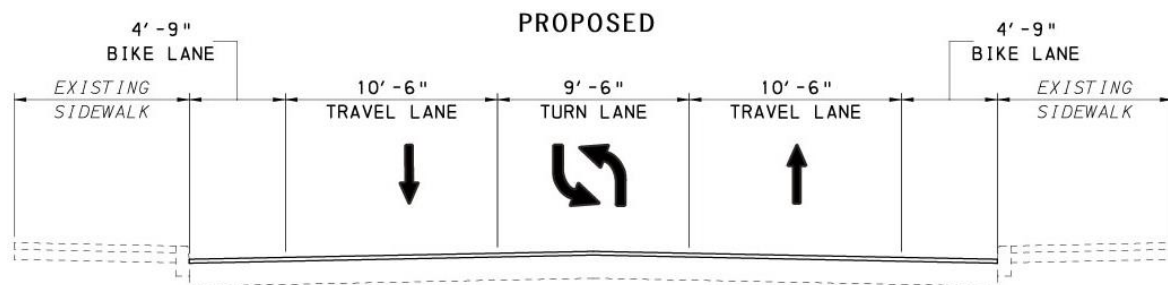
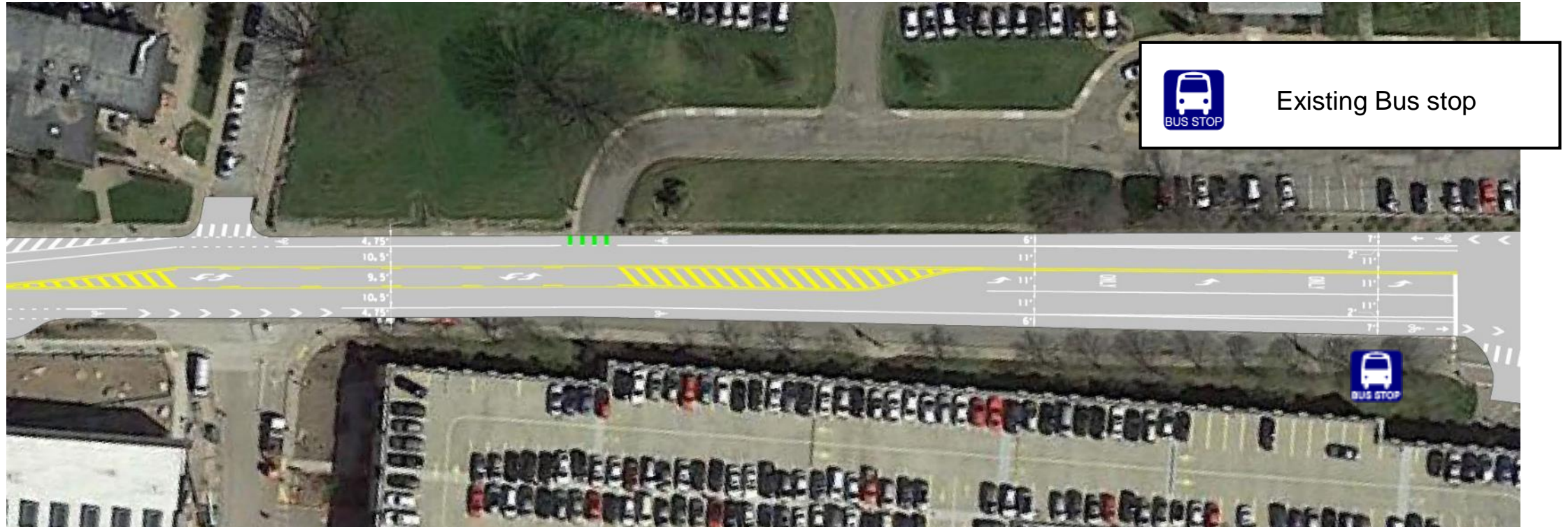
PROPOSED





# Proposed Roadway Configuration

## Morewood Avenue to Beeler Street

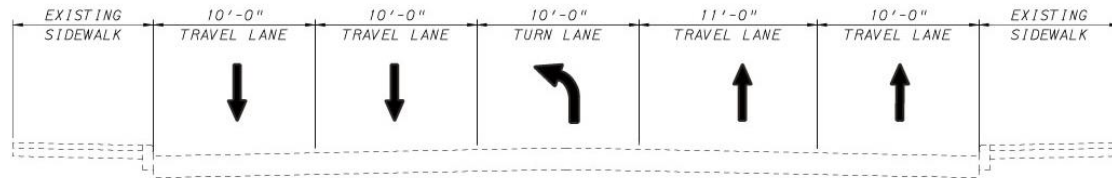


# Existing Intersection Configurations

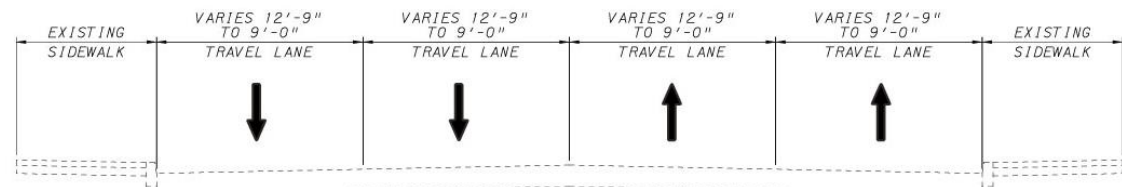
## Forbes Avenue at Beeler Street



EXISTING



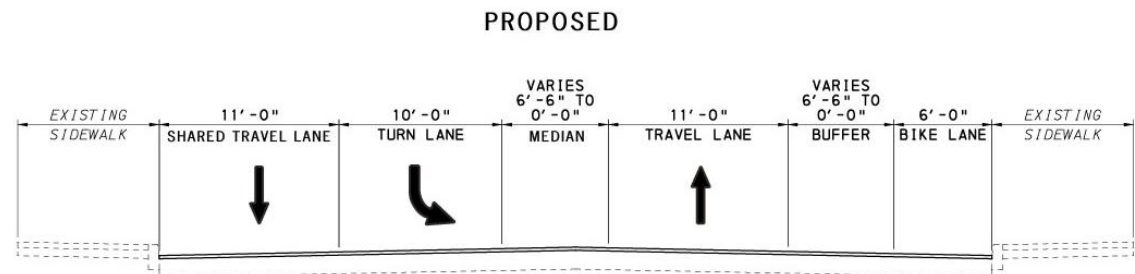
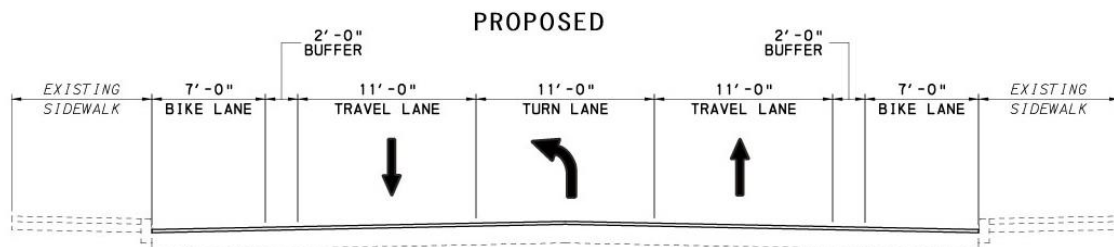
EXISTING





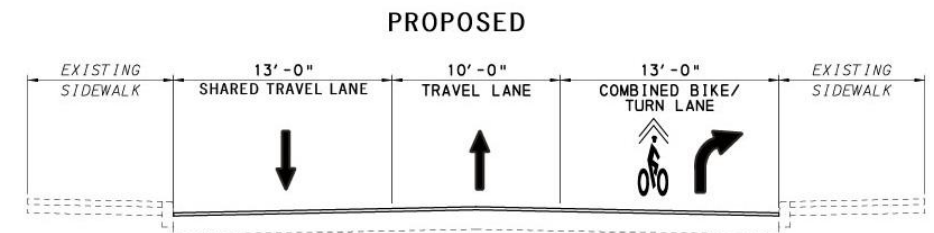
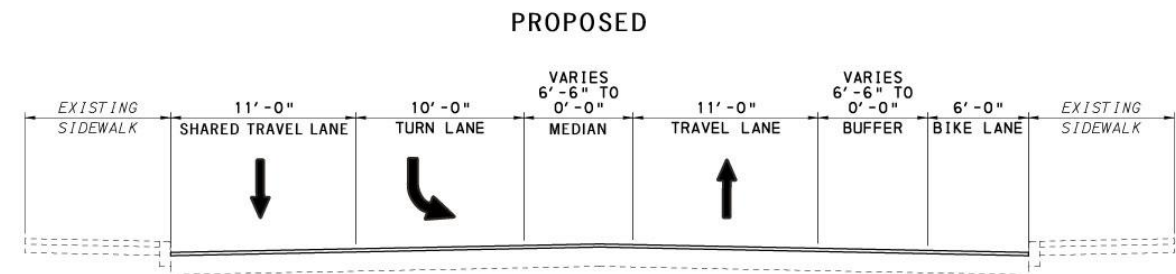
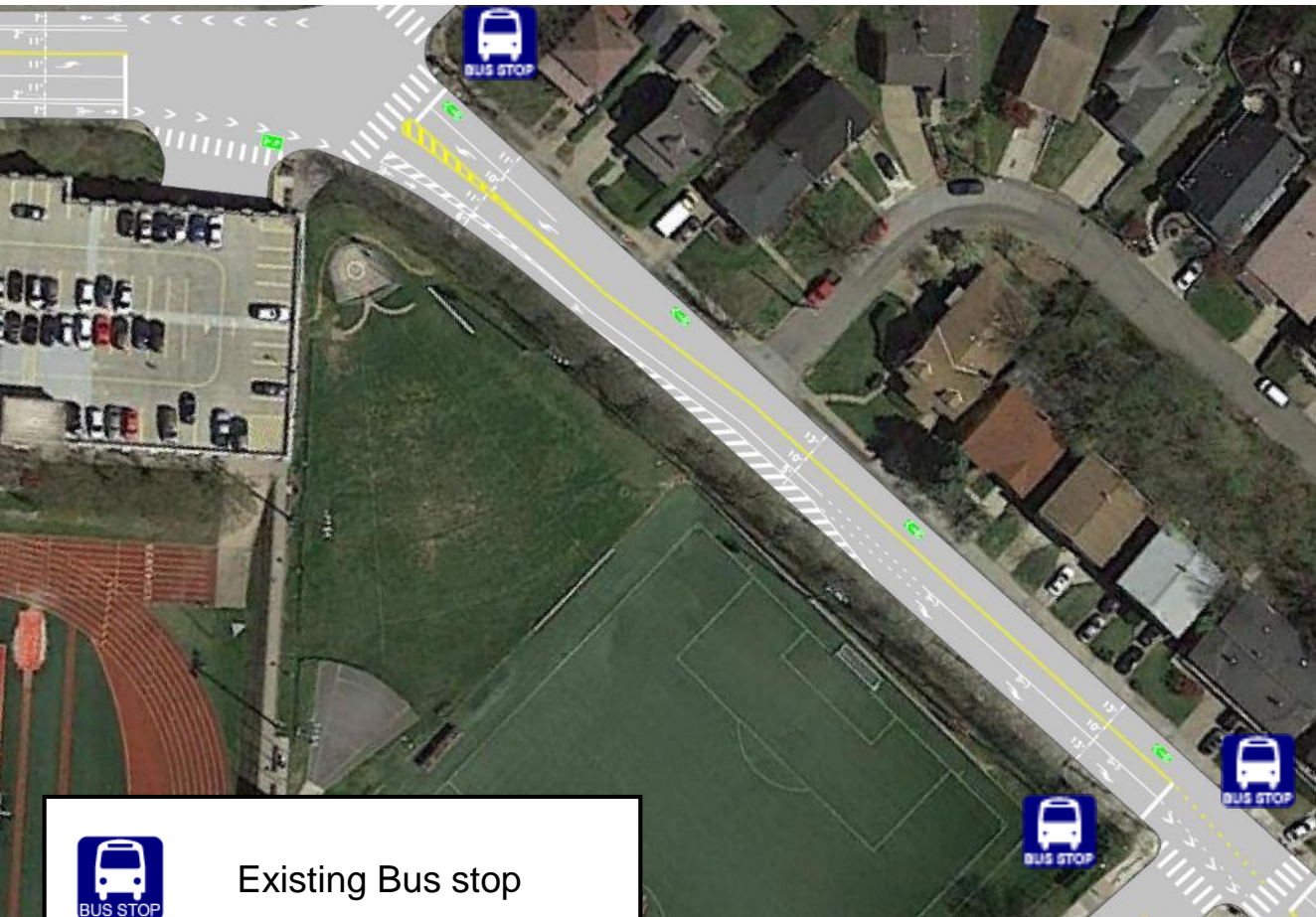
# Proposed Intersection Configurations

## Forbes Avenue at Beeler Street



# Proposed Roadway Configurations

Beeler Street to Margaret Morrison Street



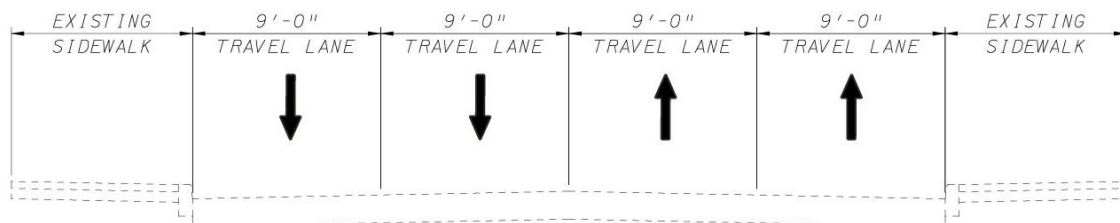


# Existing Intersection Configurations

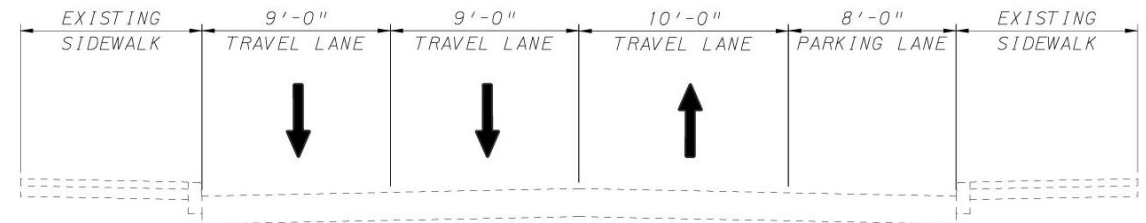
## Forbes Avenue at Margaret Morrison Street



EXISTING

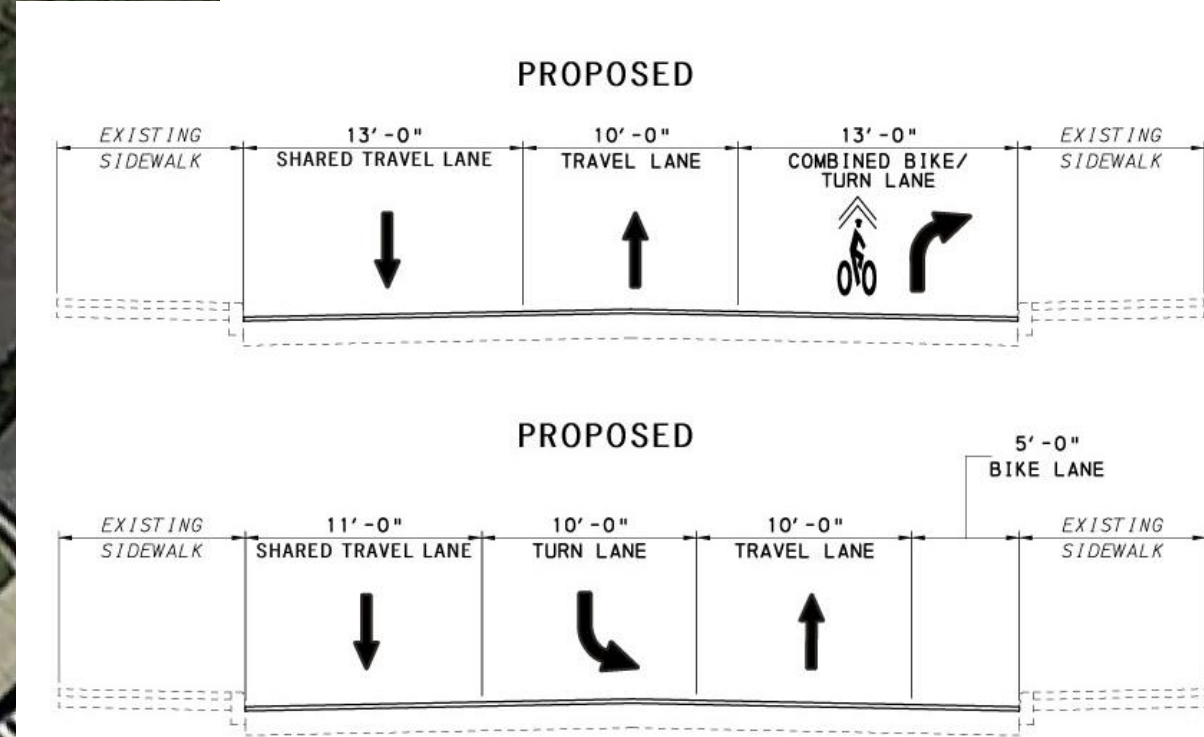
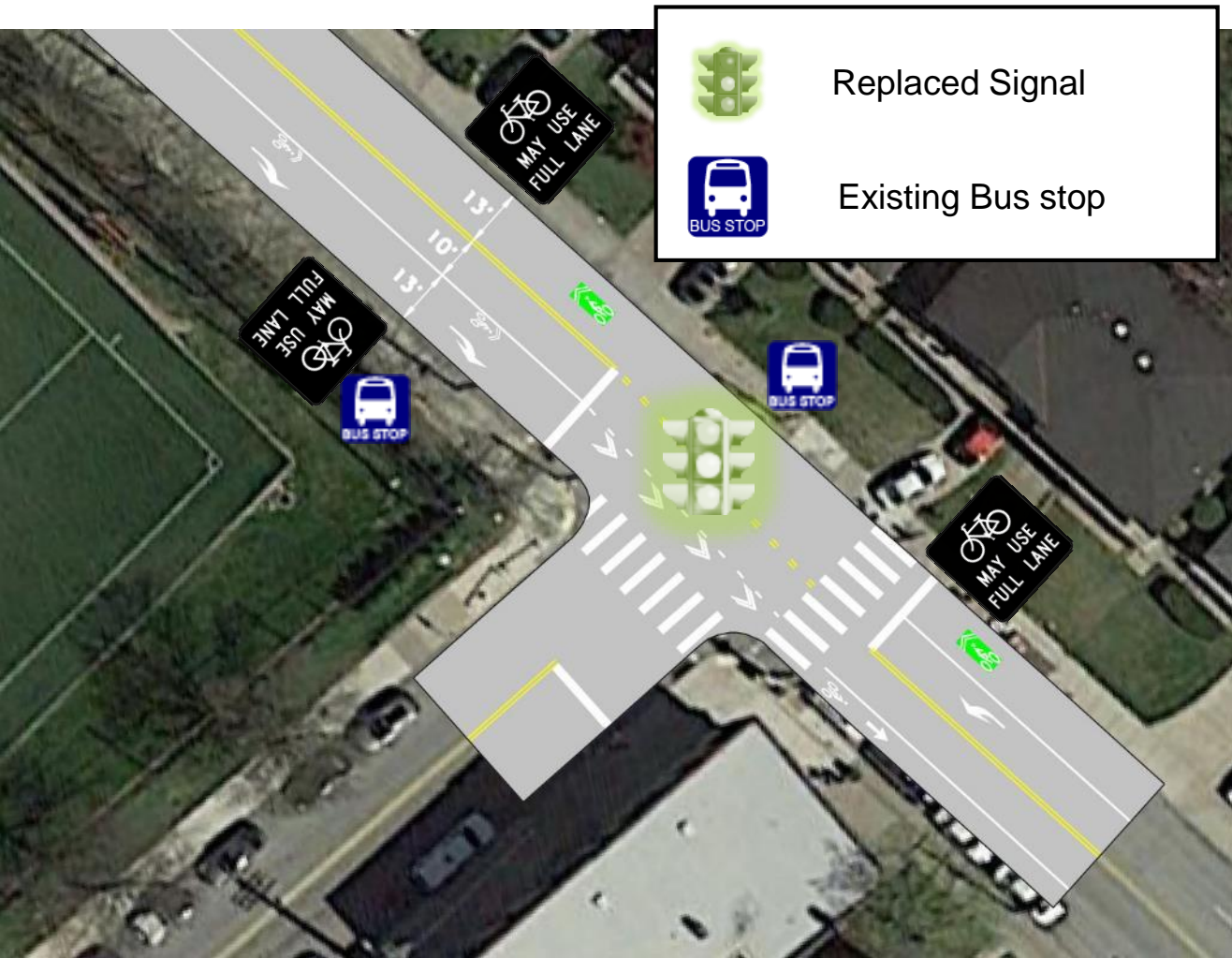


EXISTING



# Proposed Intersection Configurations

## Forbes Avenue at Margaret Morrison Street

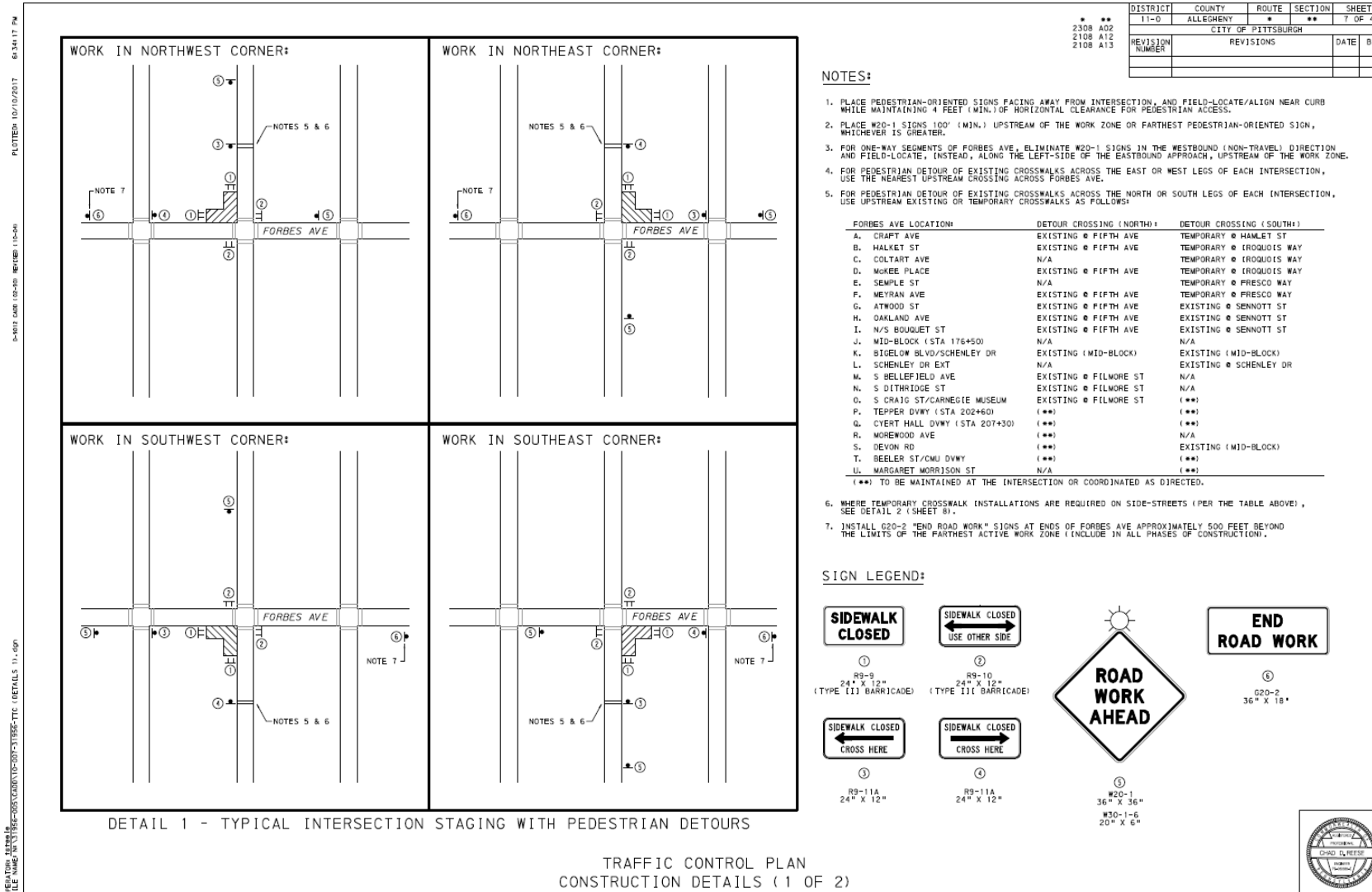




# Maintenance and Protection of Traffic

- Construction Operations
  - Combination of Daytime and Nighttime Work –
    - 9:00 AM to 3:00 PM daily
    - 8:00 PM to 6:00 AM nightly
  - Weekend Work – 8:00 PM Friday to 6:00 AM Monday
    - Seven weekend long single lane restrictions
    - Five Block limit
    - Otherwise maintain two lanes of traffic
  - No work dates due to events (Attached Calendar)
  - Weekend Closures - Two weekends
    - Zone 1 – Birmingham Bridge to Craft Avenue
  - EMS notifications during closures and weekend restrictions
- Sidewalk and Signal Construction
  - Maintain Pedestrian and Bike access at all times
  - ADA Accessible
  - Transit Accessibility

# Maintenance and Protection of Traffic







# Construction Schedule (No Work)

## FORBES AVE. PROJECT CONTRACT NON-WORKING & LIMITED WORKING DATES

	NO TRAFFIC RESTRICTIONS
	LIMITED TRAFFIC RESTRICTIONS

2018

January						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

April						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

July						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

October						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

May						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

November						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

March						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

June						
Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

September						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

December						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					



# Construction Schedule

- Zone 1: Birmingham Bridge to Craft Avenue
  - March 12, 2018 – April 30, 2018 (Week nights and weekends)
    - Concrete Patching, inlet, manhole and utility valve adjustments along with asphalt milling and paving.

# Construction Schedule

- Zone 3: S. Craig Street to Margaret Morrison Street
  - March 8, 2018 – June 25, 2018 (Week days and nights)
    - Intersection section work for traffic signal infrastructure and ADA curb ramps. Inlet, manhole and utility valve adjustments.
  - Mid June to late August (Weekends as permitted)
    - Asphalt milling and paving
  - August 8, 2018 – August 31, 2018 (Week days and nights)
    - Traffic signal installation



# Construction Schedule

- Zone 2: Craft Avenue to S. Craig Street
  - April 2, 2018 – August 31, 2018 (Week days and nights)
    - Intersection section work for traffic signal infrastructure and ADA curb ramps.
  - Mid May to Mid June (Weekends as permitted)
    - Asphalt milling and paving
  - Mid June to September (Week days and nights)
    - Inlet, manhole and utility valve adjustments.
  - September 2018 (Weekends as permitted)
    - Asphalt Wearing Course
  - August 8, 2018 – September 21, 2018 (Week days and nights)
    - Traffic signal installation

# Construction Schedule

- Project Wrap-up
  - Mid September through October 2018(Week days and nights and weekends as permitted)
    - Final Pavement Markings
    - Sign Installation
    - Miscellaneous delineation
    - Traffic Signal testing



# Questions?

This presentation will be made available within 10 days on the OTMA website

[http://www.otma-pgh.org/.](http://www.otma-pgh.org/)