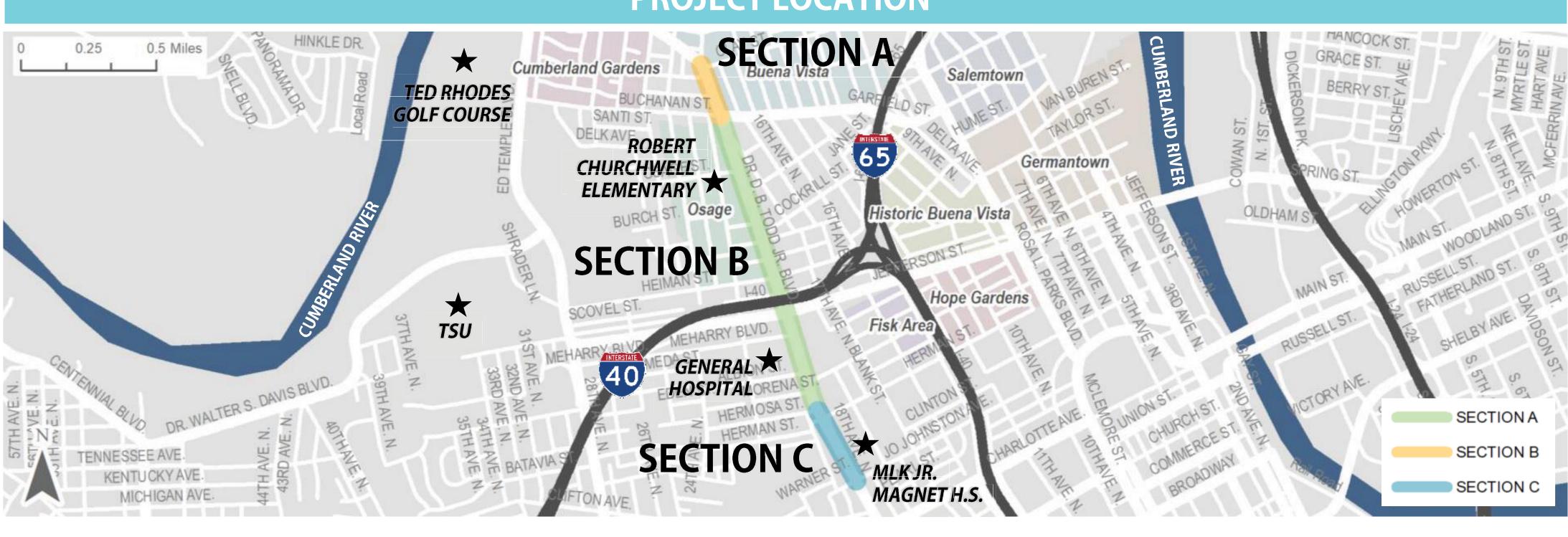


### DR. D.B. TODD JR. BLVD. **PROJECT INFORMATION SHEET**



# What we heard last time:

Priorities on the street

- Make it easier, safer, more comfortable for pedestrians and bicyclists to cross
- Create more space (including buffers from traffic) for pedestrians and bicyclists
- Find opportunities for art and other creative placemaking/neighborhood branding
- Slow Down Cars 4
- Find opportunities for trees and other green/storm water features 5
- Move lots of cars through quickly 6
- Create more parking

walknbike
VISUAL EXAMPLE SHEET



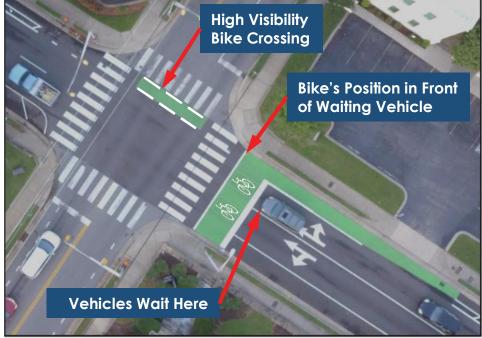


DESCRIPTION





**BIKE BOX AND GREEN PAVEMENT CONFLICT MARKINGS** 





DEDICATED BIKE SIGNALS



INTERSECTION CROSSING IMPROVEMENTS - UNSIGNALIZED

WARNING SIGNS WITH FLASHING BORDER (LED)



CONCRETE CROSSING ISLANDS









### **PROJECT LOCATION**

### Comments

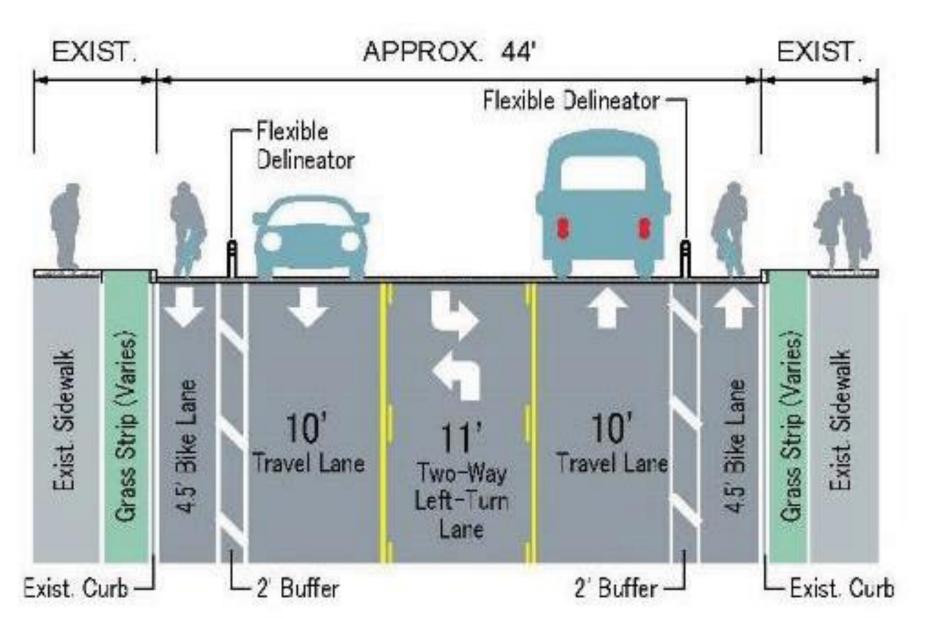
• It's difficult to cross Jefferson on DB Todd on foot

### Metro Nashville Public Works **Curb Extensions (Bulb-Outs)** roving the Quality of Life for Nashvillians and our Visitors CITY VISUAL EXAMPLE SHEET FOR INFORMATION ONLY DESCRIPTION **DESIGN FEATURES** Curb extensions (bulb-outs) modify the curb to extend into the existing parking lane to visually and physically narrow the roadway. **BENEFITS** • Makes pedestrians waiting to cross the street more visible to drivers. • Shortens pedestrian crossing distance. • Encourages slower speeds with tighter curb radii. Visible Prevents vehicles from parking too close to the intersection DIFFERENT STREET DESIGNS - USING CURB EXTENSIONS (BULB-OUTS) **CURB EXTENSIONS FOR BUS STOPS** OFFSET CURB EXTENSIONS (CHICANE) **PINCHPOINT (MIDBLOCK) EXAMPLES OF CURB EXTENSIONS (BULB-OUTS)** FREESTANDING PLANTERS **BIKE CORRALS** PAINTED PAVEMEN **CONCRETE EXTENSIO**

### **SEGMENT CROSS-SECTIONS**

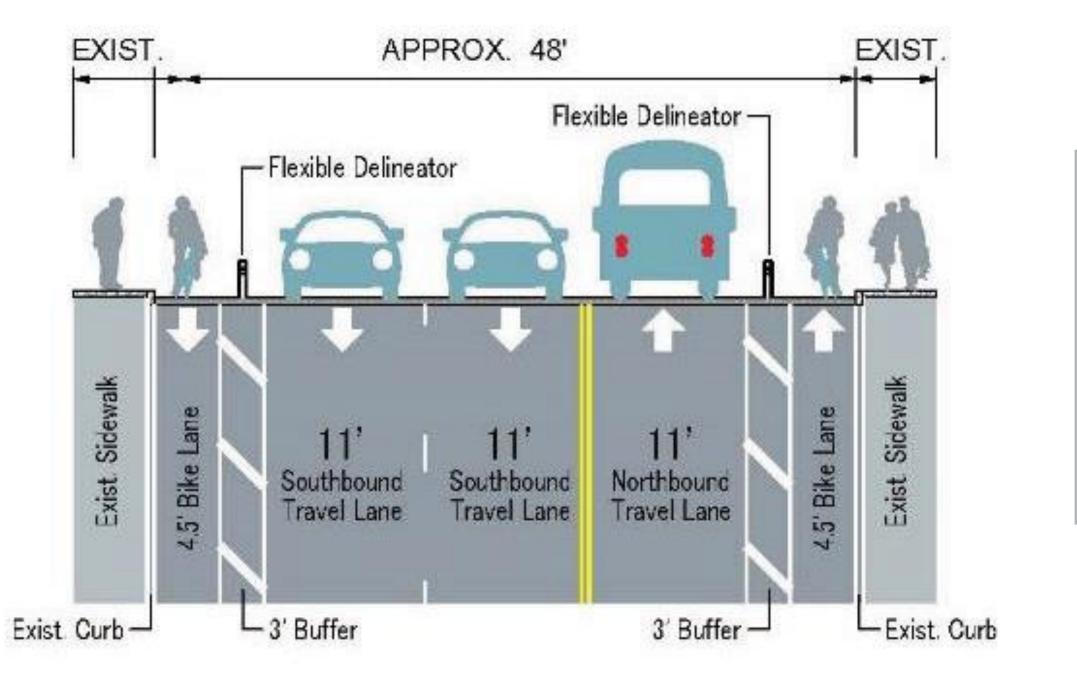
### **SECTION A: CLAY ST TO BUCHANAN ST**

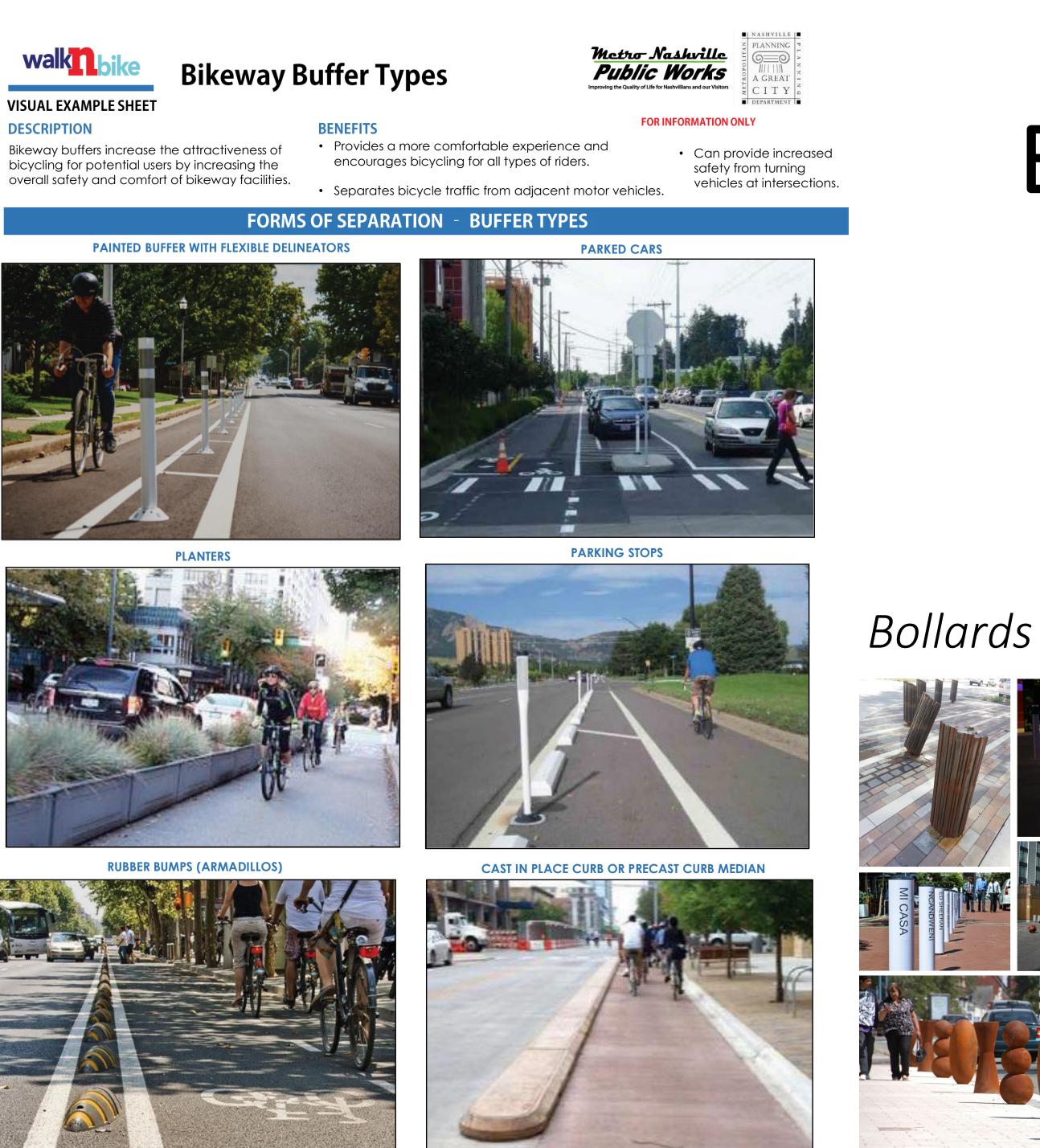
### **PROPOSED FACILITIES:**



### **SECTION C:** HERMOSA ST TO JO JOHNSTON ST

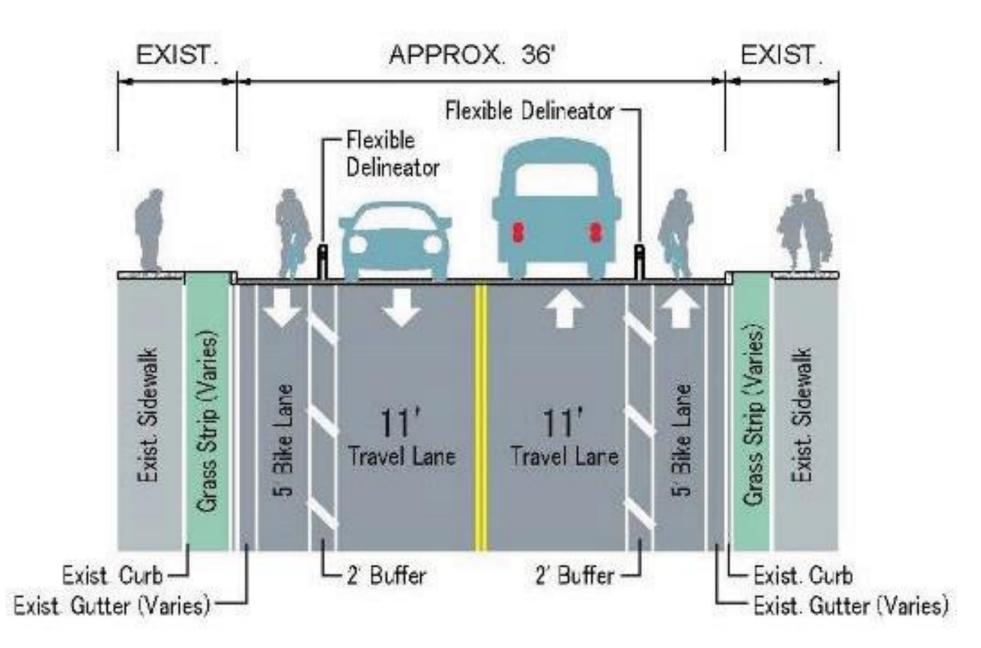






### **SECTION B: BUCHANAN ST TO HERMOSA ST**

### **PROPOSED FACILITIES:**

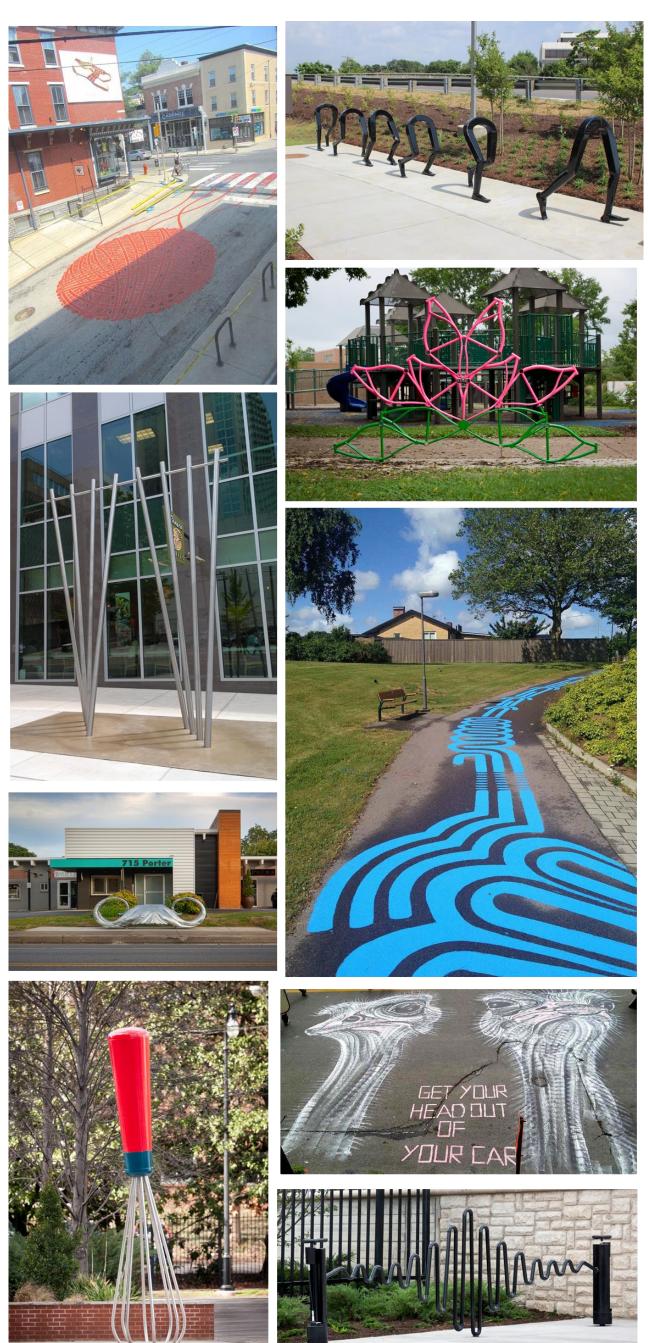


TIMELINE: Construction Goal – Fall 2018 **COST ESTIMATE:** \$293,000





Bike Racks + Paint

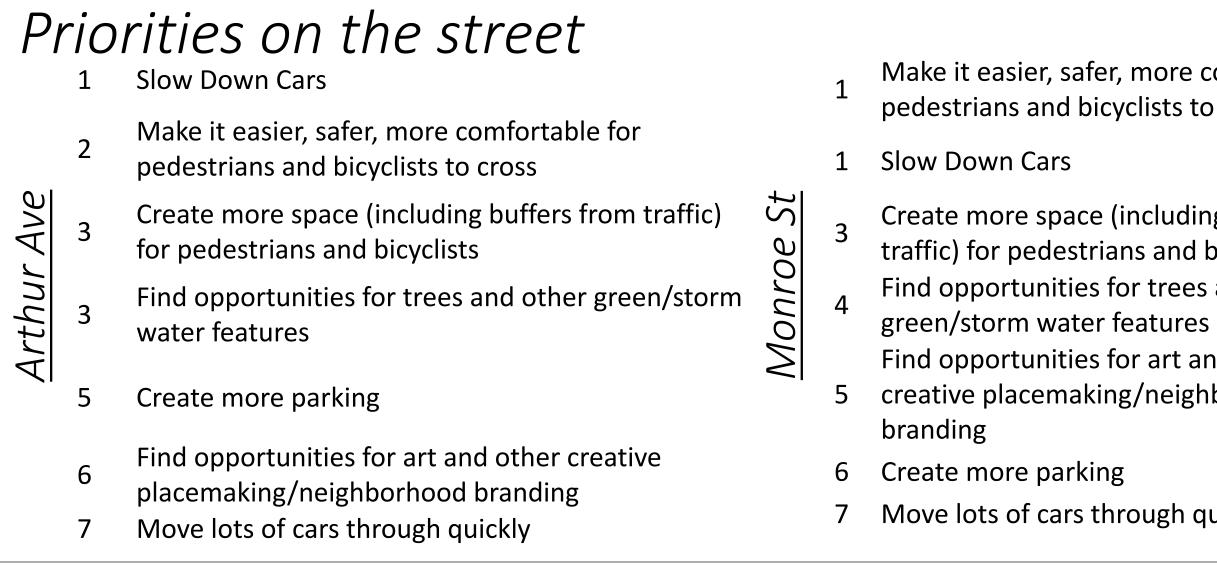




### **ARTHUR AVE + MONROE AVE PROJECT INFORMATION SHEET**



# What we heard last time:

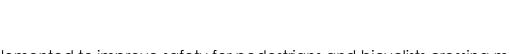


### walk

### Intersection Crossings



VISUAL EXAMPLE SHEET DESCRIPTION

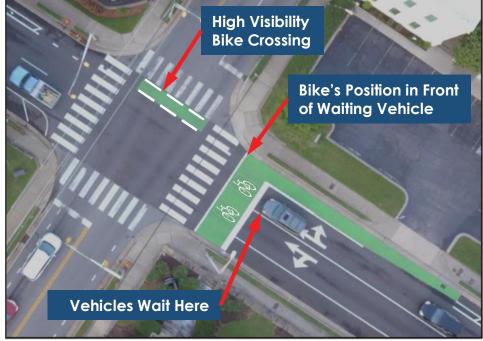


INTERSECTION CROSSING IMPROVEMENTS - SIGNALIZED

Many applications can be implemented to improve safety for pedestrians and bicyclists crossing major or minor street intersections.



BIKE BOX AND GREEN PAVEMENT CONFLICT MARKINGS





DEDICATED BIKE SIGNALS



INTERSECTION CROSSING IMPROVEMENTS - UNSIGNALIZED

WARNING SIGNS WITH FLASHING BORDER (LED)



CONCRETE CROSSING ISLANDS









### **PROJECT LOCATION**

Make it easier, safer, more comfortable for pedestrians and bicyclists to cross

Create more space (including buffers from traffic) for pedestrians and bicyclists Find opportunities for trees and other Find opportunities for art and other creative placemaking/neighborhood

Move lots of cars through quickly

### Comments

- A parking protected bike lane for Arthur and Monroe • Art/Historical Info/Buffer
- Bad drainage on Arthur; not safe to park in alleys, want more trees; the bridge under Arthur fills with water and has swept cars away

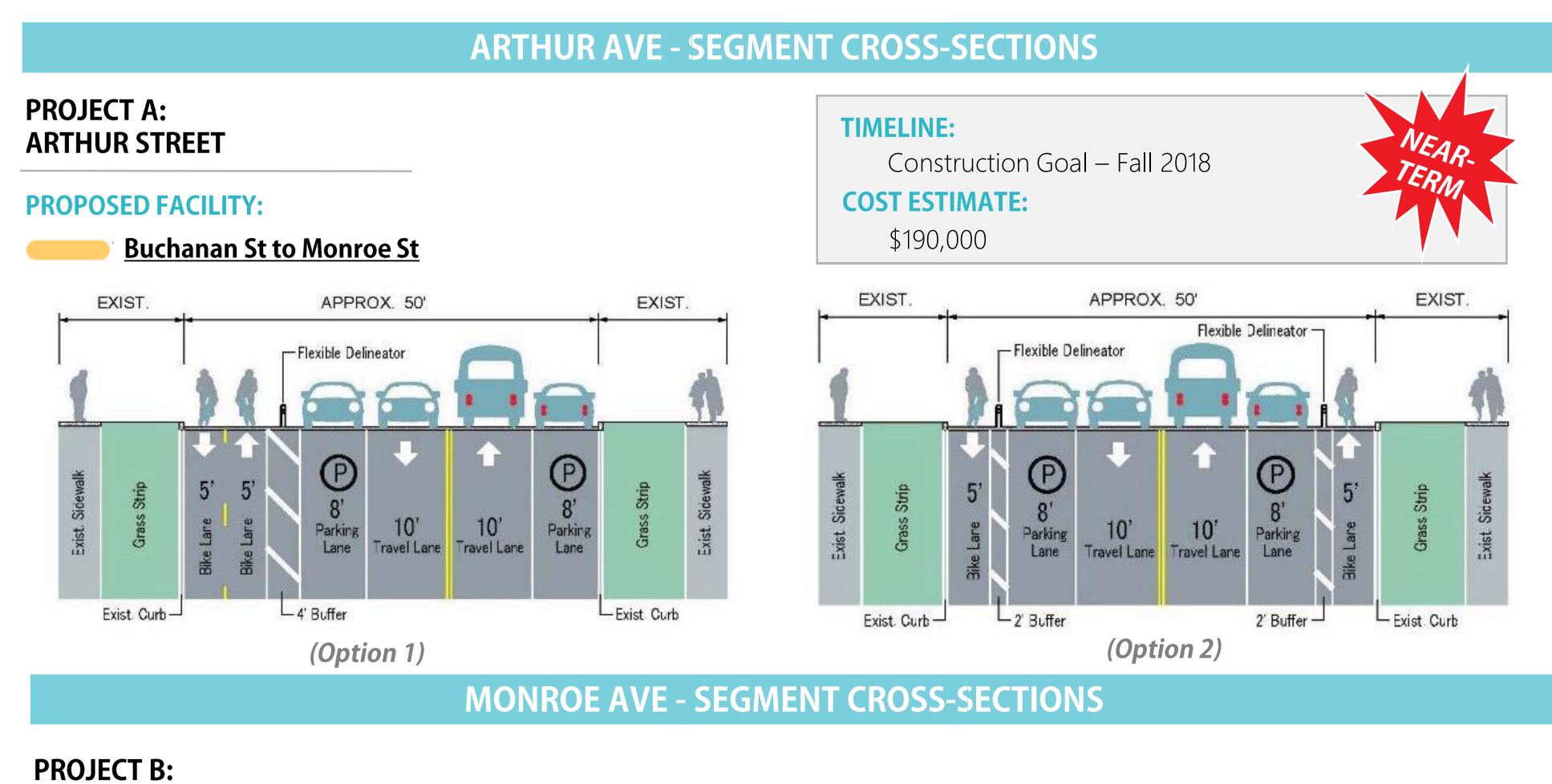


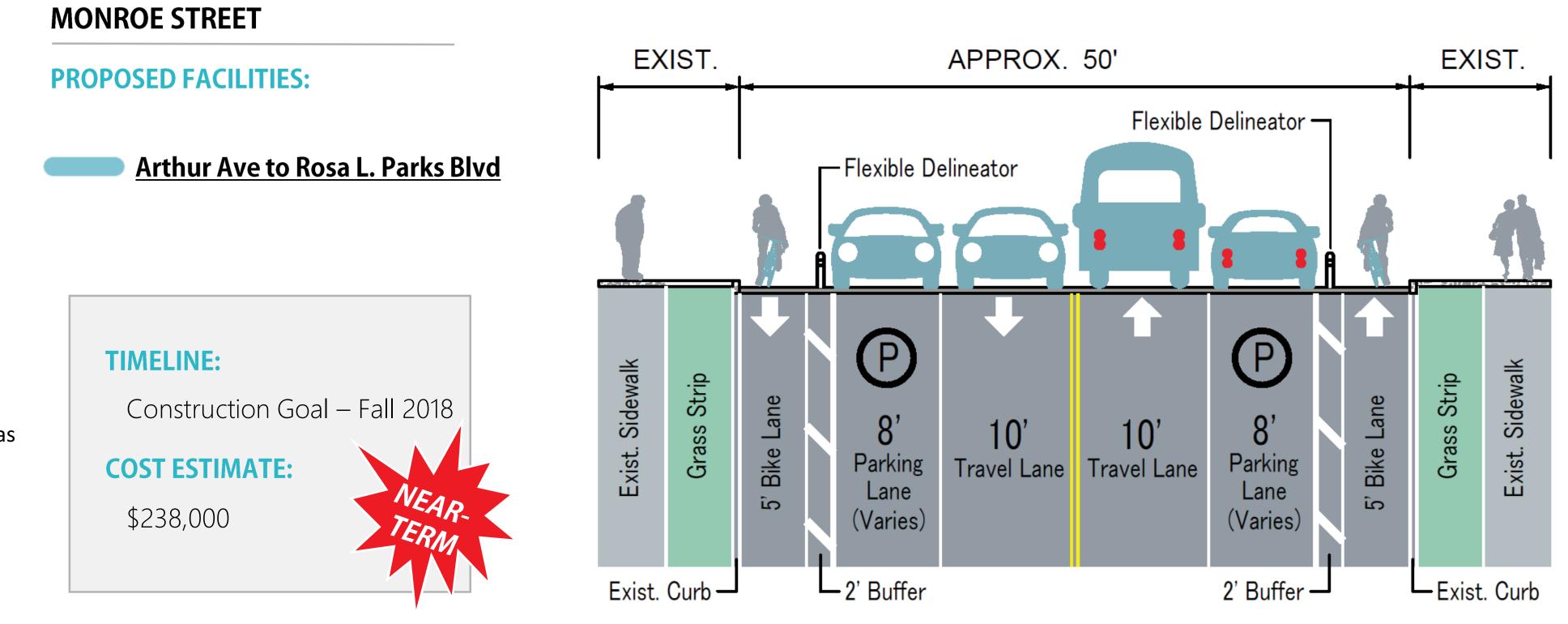














### **BUCHANAN ST + GARFIELD ST PROJECT INFORMATION SHEET**



## What we heard last time:

### Priorities on the street

- Make it easier, safer, more comfortable for pedestrians and bicyclists to cross
- Create more space (including buffers from traffic) for pedestrians and bicyclists
- Slow Down Cars
- Find opportunities for trees and other green/storm water features
- Find opportunities for art and other creative
- placemaking/neighborhood branding
- Create more parking
- Move lots of cars through quickly

### Comments

- Sidewalks should be a priority

walk

VISUAL EXAMPLE SHEET

DESCRIPTION

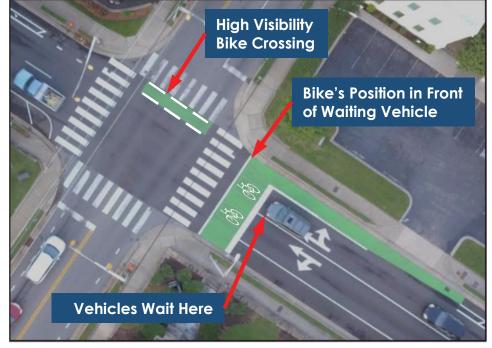
### Intersection Crossings



Many applications can be implemented to improve safety for pedestrians and bicyclists crossing major or minor street intersections. INTERSECTION CROSSING IMPROVEMENTS - SIGNALIZED



**BIKE BOX AND GREEN PAVEMENT CONFLICT MARKINGS** 





**DEDICATED BIKE SIGNALS** 



INTERSECTION CROSSING IMPROVEMENTS - UNSIGNALIZED

WARNING SIGNS WITH FLASHING BORDER (LED)



CONCRETE CROSSING ISLAND





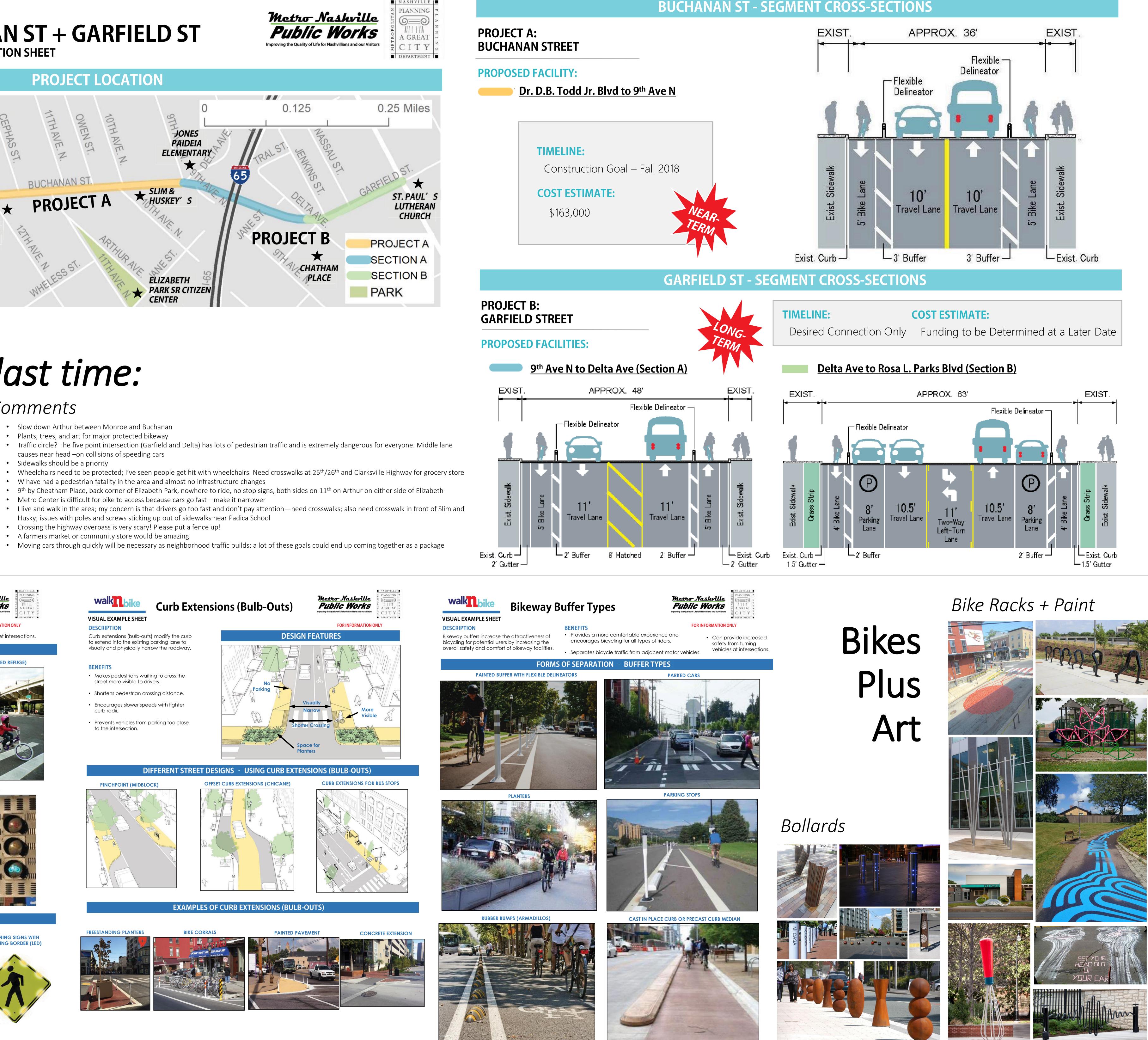




• Traffic circle? The five point intersection (Garfield and Delta) has lots of pedestrian traffic and is extremely dangerous for everyone. Middle lane causes near head –on collisions of speeding cars

• W have had a pedestrian fatality in the area and almost no infrastructure changes

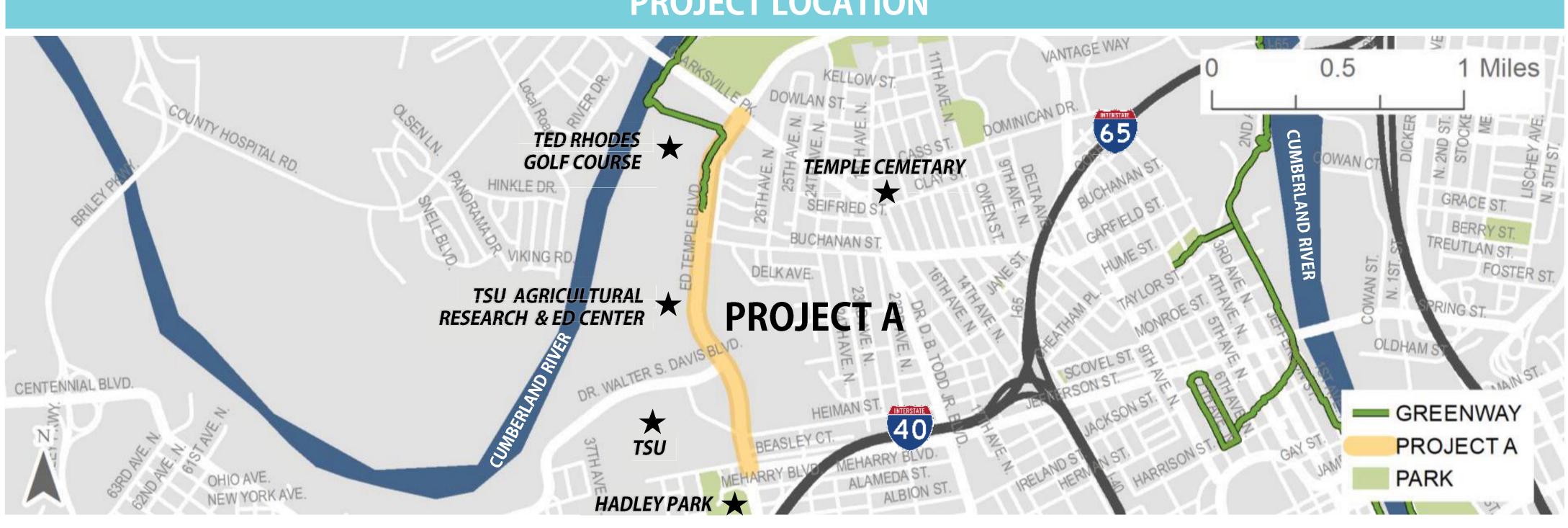
• Metro Center is difficult for bike to access because cars go fast—make it narrower Husky; issues with poles and screws sticking up out of sidewalks near Padica School







### **28<sup>TH</sup> AVE N/ED TEMPLE BLVD PROJECT INFORMATION SHEET**



## What we heard last time:

### Priorities on the street

- Slow Down Cars
- Create more space (including buffers from traffic) for pedestrians and bicyclists
- Make it easier, safer, more comfortable for pedestrians and bicyclists to cross
- Find opportunities for art and other creative placemaking/neighborhood branding
- Find opportunities for trees and other green/storm
- water features
- Create more parking
- Move lots of cars through quickly

### walk



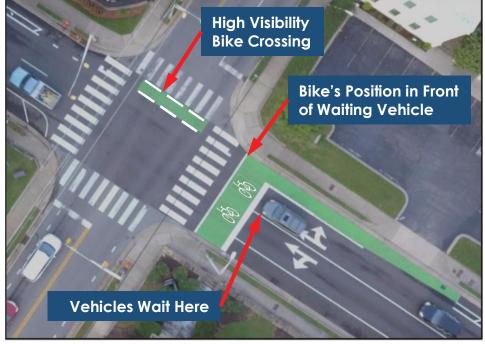


VISUAL EXAMPLE SHEET DESCRIPTION

Many applications can be implemented to improve safety for pedestrians and bicyclists crossing major or minor street intersections. INTERSECTION CROSSING IMPROVEMENTS - SIGNALIZED



BIKE BOX AND GREEN PAVEMENT CONFLICT MARKINGS





DEDICATED BIKE SIGNALS



INTERSECTION CROSSING IMPROVEMENTS - UNSIGNALIZED

WARNING SIGNS WITH FLASHING BORDER (LED)





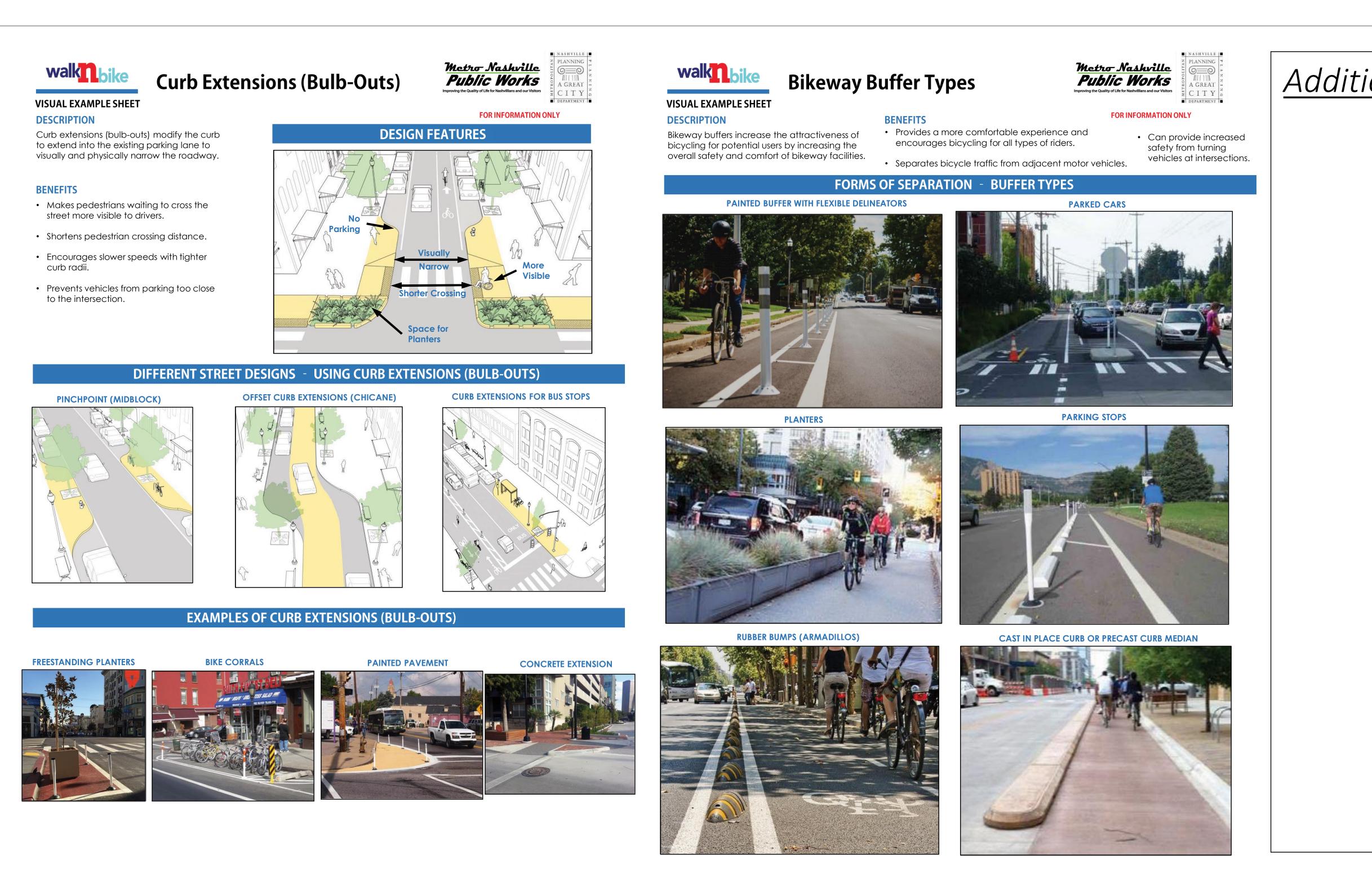


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### **PROJECT LOCATION**

### Comments

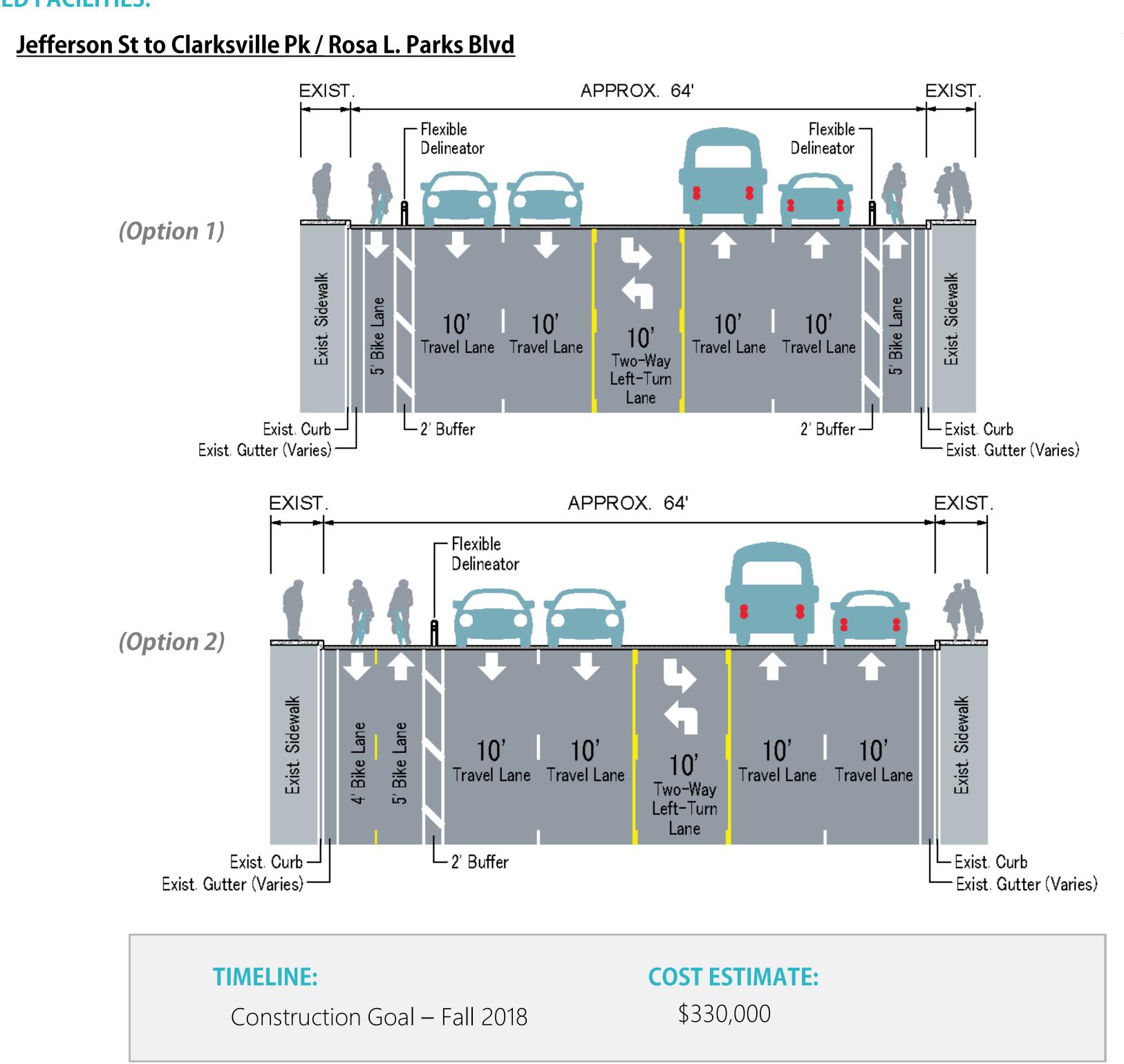
- Sidewalks should be a priority
- I have to drive across the street to use the greenway because the street is so dangerous to cross—especially with children



### **PROJECT A:** 28<sup>TH</sup> AVENUE N / ED TEMPLE BLVD

### **PROPOSED FACILITIES:**

### Jefferson St to Clarksville Pk / Rosa L. Parks Blvd



Additional Comments:



## **'NEIGHBORWAYS'**

**PROJECT INFORMATION SHEET** 



<b>PROJECT A:</b>	
24 <sup>TH</sup> AVENUE N	

**McKinney Ave to Cumberland River** Greenway

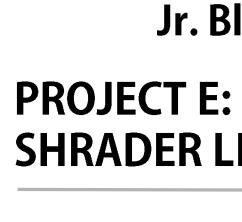
**PROJECT B:** MCKINNEY AVENUE

24<sup>th</sup> Ave North to 18<sup>th</sup> Ave North

### **PROJECT C:** 18<sup>TH</sup> AVENUE N

Kellow St to Clarksville Pk / Dr. D.B. Todd Jr. Blvd







TIMELINE: **COST ESTIMATE:** Construction Goal – Fall 2018 Varies depending on project length







### **PROJECT LOCATION**

## 28<sup>TH</sup> AVENUE N / ED TEMPLE BLVD

Jefferson St to Clarksville Pk / Dr. D.B. Todd Jr. Blvd

SHRADER LN / HEIMAN ST / 14<sup>TH</sup> AVENUE N

Dr. Walter S. Davis Blvd to Buchanan St



# **Traffic Calming Treatments**

## Between Intersections



Fairfax Avenue - Nashville, TN - via Google Maps

Advantages: • Effective in reducing speeds Very cost effective Lots of options: can be used for green space, art, parking, etc.

Advantages:

Cost effective

• Effective in reducing speeds

• Lots of options: can be used for

bike lanes, pedestrian walkways,

green space, art, parking, etc.

Disadvantages: May require extra maintenance · Introduces a new design that drivers will have to get used to



Eastland Avenue - Nashville, TN - Google Maps

Disadvantages: May require extra maintenance



Advantages · Effective in reducing speed Very cost effective · Can reduce crossing distance for pedestrians at intersections



Advantages: Effective in reducing speedsOpportunity for more trees or other green space



Advantages: Most effective way to reduce speed Minimizes impacts on fire and emergency vehicles

## At Intersections



15th Avenue South and Elmwood Street - Nashville, TN

- Disadvantages:
- · Forces bicyclists to merge with cars Wrong-way left turns can occurPossible driver confusion--especial-
- ly when first installed



Advantages:

• Enables bicyclists and pedestrians to comfortably cross busy streets · Reduces the number of vehicles cutting through neighborhoods

Advantages: Improved safety and efficiency • Typically, no need for widening Great opportunity to add art or greenery to the street

Disadvantages Must be very sensitive to context May reduce parking Requires additional mainenance

Roberts Avenue - Nashville, TN - Google Maps

Disadvantages:

drivewavs

• May require extra maintenance Requires additional cost May reduce access via left turns between intersections, including into

### Disadvantages:

- May reduce parking Drivers may swerve to partially
- avoid cusions May shift traffic to other streets · Only applicable to streets where the desired speeds are 20mph



Advantages: Very effective at reducing speeds Increased visibility of crossing pe Disadvantages:

· May reduce parking May impact drainage



Advantages: Inexpensive treatment Can be effective at calling drivers' attentiion to a pedestrian crossing ahead on busier streets

- Disadvantages: · Most effective when paired with other treatments
- May cause noise impact

Portland, OR - via www.pedbikesafe.org

Disadvantages:

· Prohibits left turns onto the neighborhood street Prohibits vehicles from turning left or going straight across the busier cross street



12th Avenue South and Montrose Avenue - Nashville, TN - via Google Maps

Advantages:

- Effective in reducing turning speeds
- · Very cost effective Typically no impact to parking
- Reduces crossing distance for pedestrians
- Disadvantages: Can require extra maintenance