

Old Columbia Pike / Prosperity Drive Improvements Project

Public Meeting – March 16, 2023



Virtual Public Meeting



- We are going to go over some basic controls to help you use the Zoom meeting format before we start the presentation
- Please note that this meeting is being recorded.
 - The video will be posted on the project website after the meeting
 - If you do not wish to have your voice or likeness recorded, please keep your camera off, and refrain from asking questions using the audio option. Instead, you can send your questions via the chat option.

Using Zoom



Muting

- Everyone is on mute. You cannot unmute yourself. We can unmute you during the Q&A time.
- To request to speak, you will need to use the **raise hand** feature. Once we unmute you, you may still need to click a pop-up menu to unmute yourself.
- If you have called in by phone, you can unmute yourself by dialing *6 once we unmute you.

Video

- Your camera is off by default. To ensure adequate bandwidth for this meeting, we request that you please keep your camera off during the meeting.

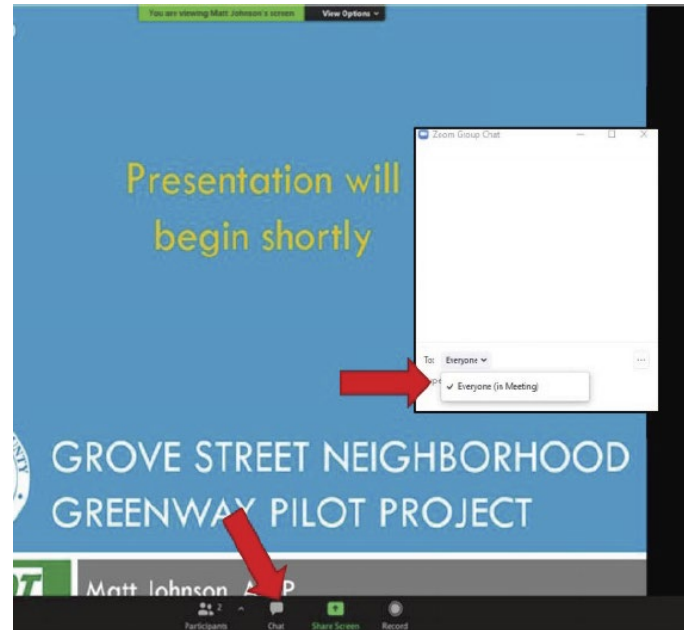
Using Zoom Continued

Ask a question (text)

- Everyone is on mute. You cannot unmute yourself. We can unmute you during the Q&A time.

To raise your hand:

- Click “participants” at the bottom menu
- Click the blue “raise hand” button
- If you’ve dialed in by phone, dial *9

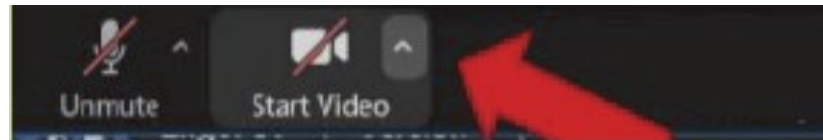
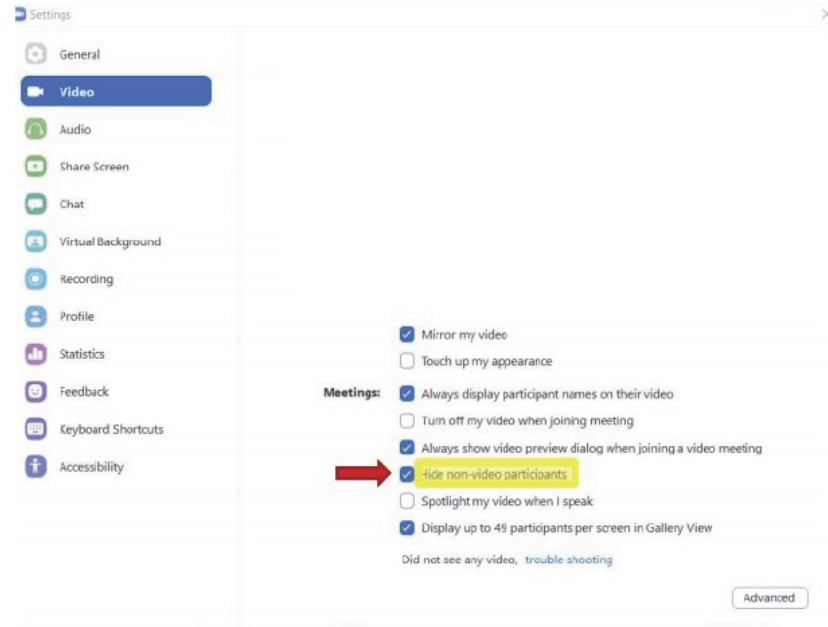


Using Zoom Continued

View

To change your view so that you can only see people with cameras on:

- Click the up arrow next to “start video”
- Select “video settings”
- Make sure “Hide non-video participants” is checked



Introduction

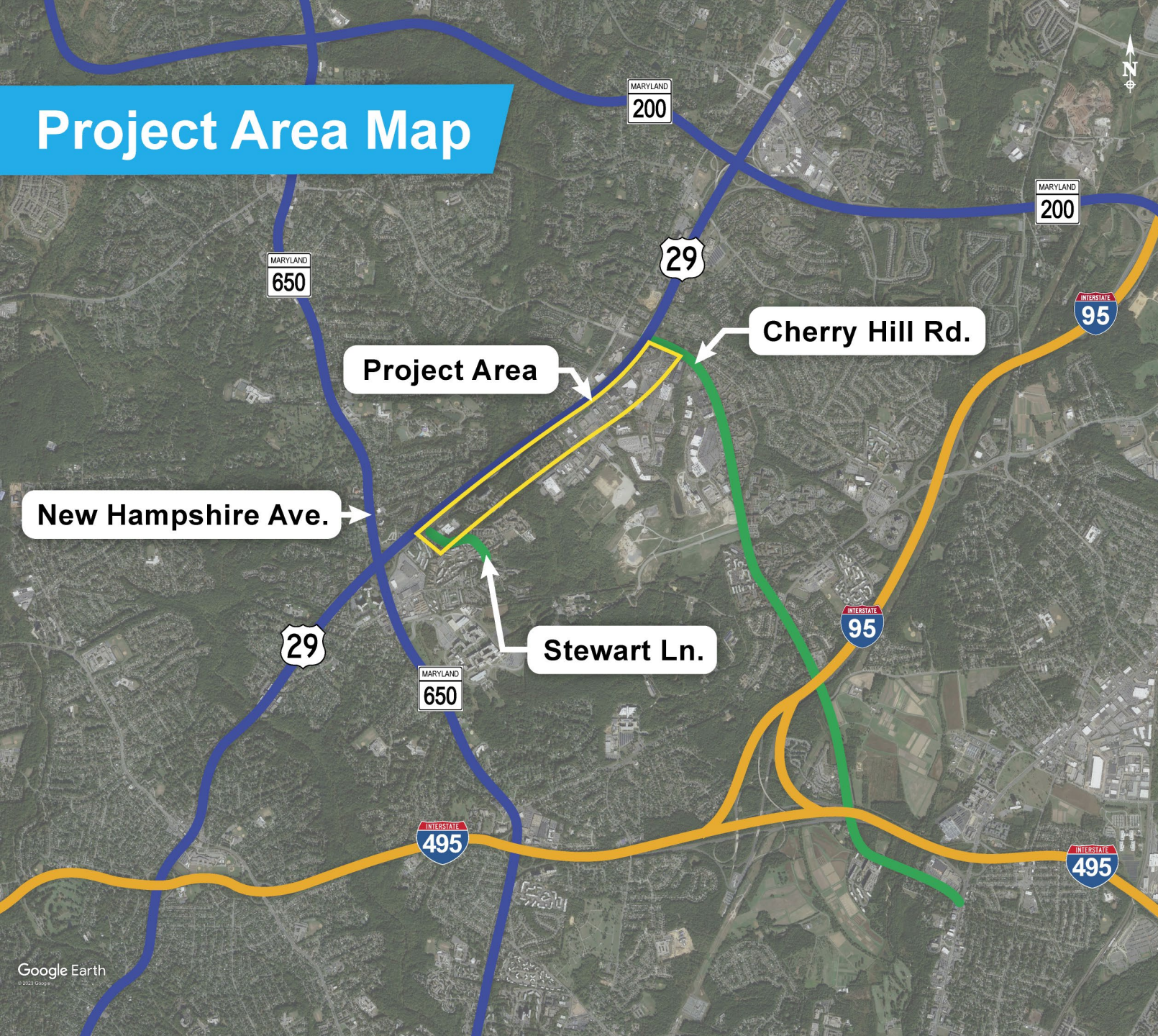


- Montgomery County DOT
 - Daniel Sheridan, PE
 - Yasamin Esmaili, CPM
- Whitman, Requardt and Associates, LLP
 - Mark Roberts, PE, DBIA
 - S. Ching Tee, PE
- Public Officials
 - Wes Darden from Councilmember Kristin Mink's Office

Life of a Transportation Project



Project Area Map

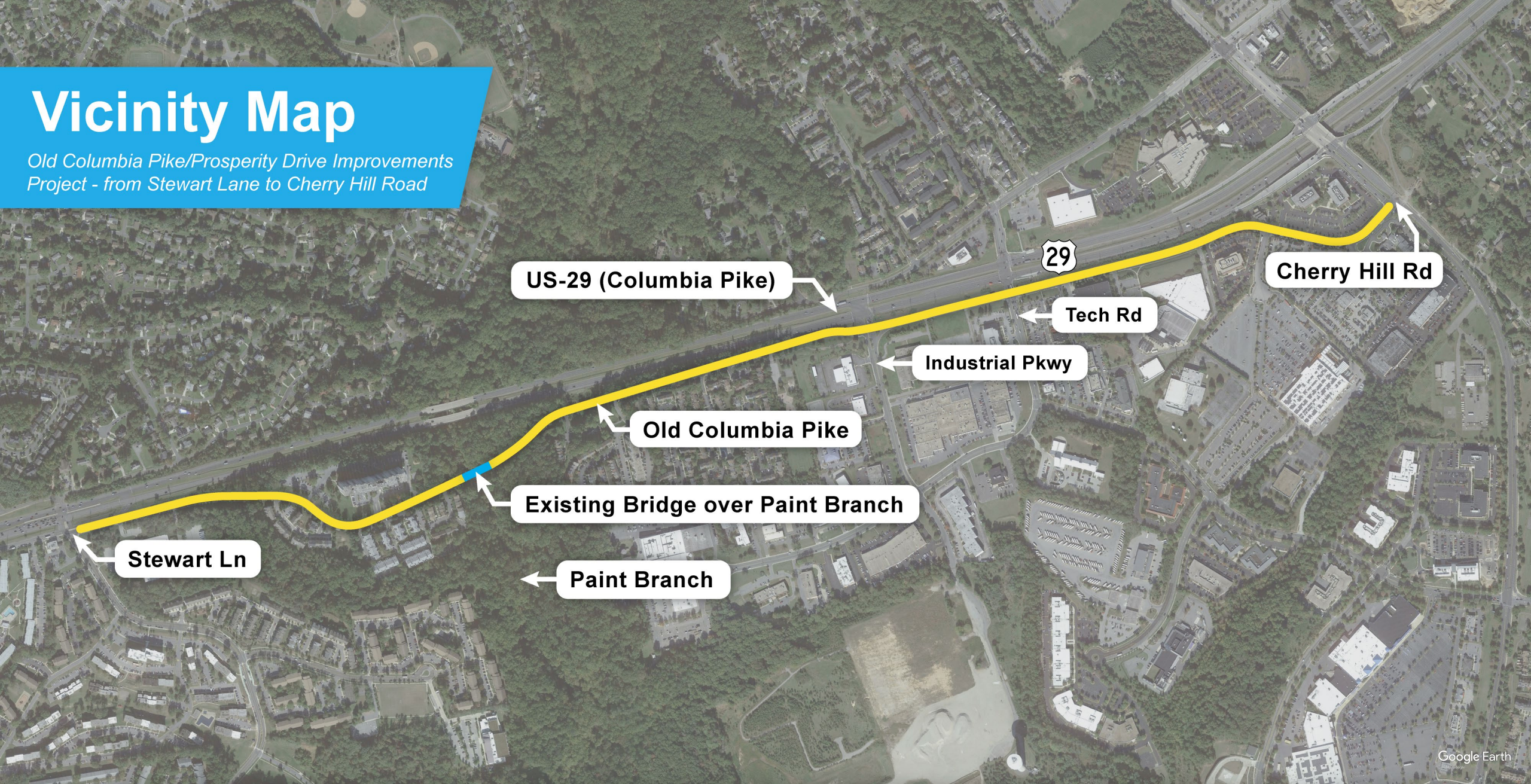


Outline

- Project Limits
- Project Overview
- Project Purpose
- Conceptual Design
 - Alternative 1 – No build
 - Alternative 2 – Improve intersections and add sidewalk and sidepath
 - Alternative 3 – Alternative 2 + Bridge open to traffic
- Project Schedule
- Questions

Vicinity Map

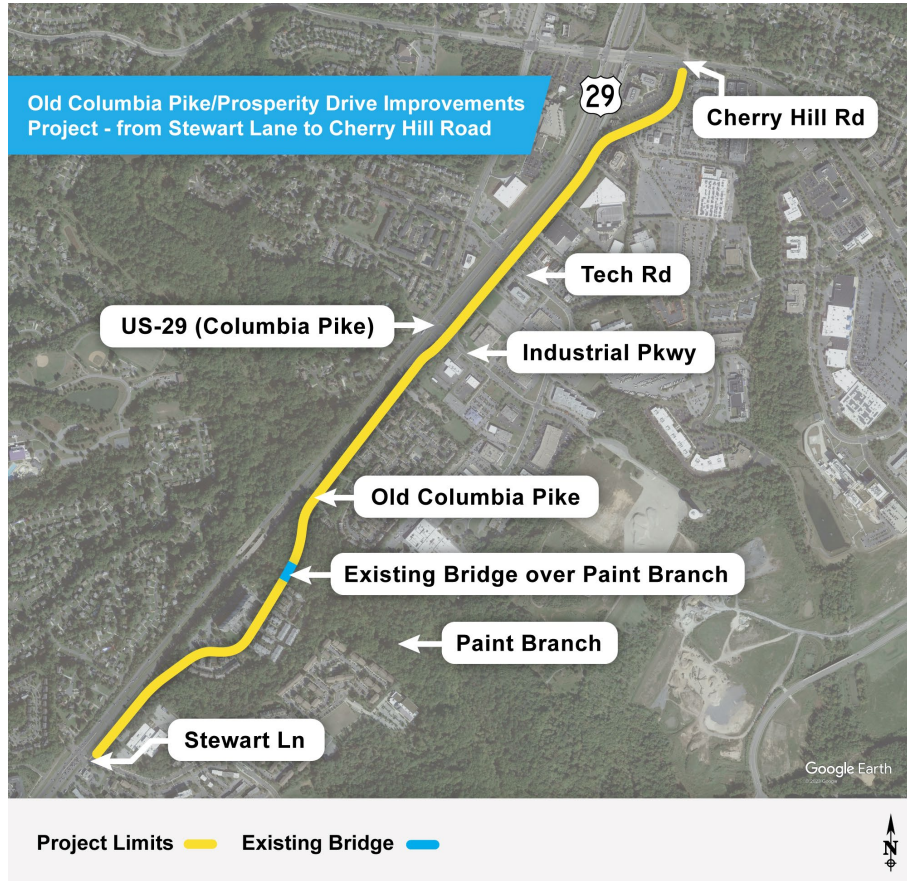
Old Columbia Pike/Prosperity Drive Improvements
Project - from Stewart Lane to Cherry Hill Road



Google Earth



Project Overview



- Project length is approx. 1.82 miles
- Existing bridge – Bridge over Paint Branch
- Four intersections
 - Stewart Lane
 - Industrial Parkway
 - Tech Road
 - Cherry Hill Road
- US 29 at Stewart Lane Intersection Improvements in preliminary design
- Master Plan References:
 - Fairland Master Plan (1997, updated version is underway)
 - White Oak Science Gateway (2014)

Project Purpose



- Address **connectivity** and **safety** needs along Old Columbia Pike/Prosperity Drive
- Improve the existing traffic patterns, operations and geometric deficiencies to resolve intersection safety and capacity
- Install a sidepath along Old Columbia Pike/Prosperity Drive
- Address drainage issues within the project limits
- Enhance safety for pedestrians and bicyclists, in keeping with Montgomery County Vision Zero Action Plan
- Promote equity and accessibility by providing continuous pedestrian facilities to promote a safe environment for pedestrians and bicyclists

Bridge over Paint Branch



Existing Conditions

- Bridge is approx. 200 feet long, 27 feet wide
- Original structure built in 1912, widened in 1930
- Rehabilitated in 1973
- Registered with Maryland Historical Trust (MHT)
- Eligible for listing in the National Register of Historic Places (NRHP)
- Currently closed to vehicular traffic but is open to pedestrians and bicyclists
- County is analyzing the condition of the existing structure

Potential Improvement Alternatives

- Rehabilitate for pedestrian/bicycle use only
- Rehabilitate for reopening to vehicular traffic
- Replace bridge
- Widen bridge

Conceptual Design

Alternative 1 – No Build

- No improvements to Old Columbia Pike/Prosperity Drive
- Safety and maintenance work on bridge
- Bridge remains closed to traffic and remains open to only pedestrians/bicyclists
- Coordination with MDOT SHA on Stewart Lane intersection improvement project

Conceptual Design

Alternative 2 - Improve intersections, and add sidewalk and sidepath

- Maintain one lane in each direction
- Improve intersections for safety and operations
- Install pedestrian and bicyclist improvements
- Bridge remains closed to traffic and remains open to only pedestrians/bicyclists

Pedestrian and Bicyclist Improvements



*Example of an ADA
Compliant intersection
crosswalks*

*Example of Typical
Section with
Buffered Sidepath
and Sidewalk*



Sidewalk Improvements

- Minimum 6' wide concrete sidewalk
- 5' to 6' wide grass buffer

Sidepath Improvements

- 10' wide sidepath
- 5' to 6' wide grass buffer
- Shared between bicyclists, pedestrians, and personal electric vehicles (PEV)
- Continuous from Stewart Lane to Cherry Hill Road

Intersection Improvements

- ADA compliant pedestrian crosswalks and curb ramps at all driveways and intersections
- Geometric improvements to address existing safety concerns and improve traffic operation

Roadway Characteristics

- Per MC Complete Streets Guideline (February 2021)
 - Neighborhood Connector
 - From Stewart Lane to Industrial Parkway
 - 25 MPH target speed
 - 10.5 feet wide outside travel lane / 10 feet wide inside through/left turn lane
 - 6 feet wide sidewalk / 10 feet wide sidepath



***Example of neighborhood connector
Watkins Mill Road between Frederick Avenue and Blunt Road***

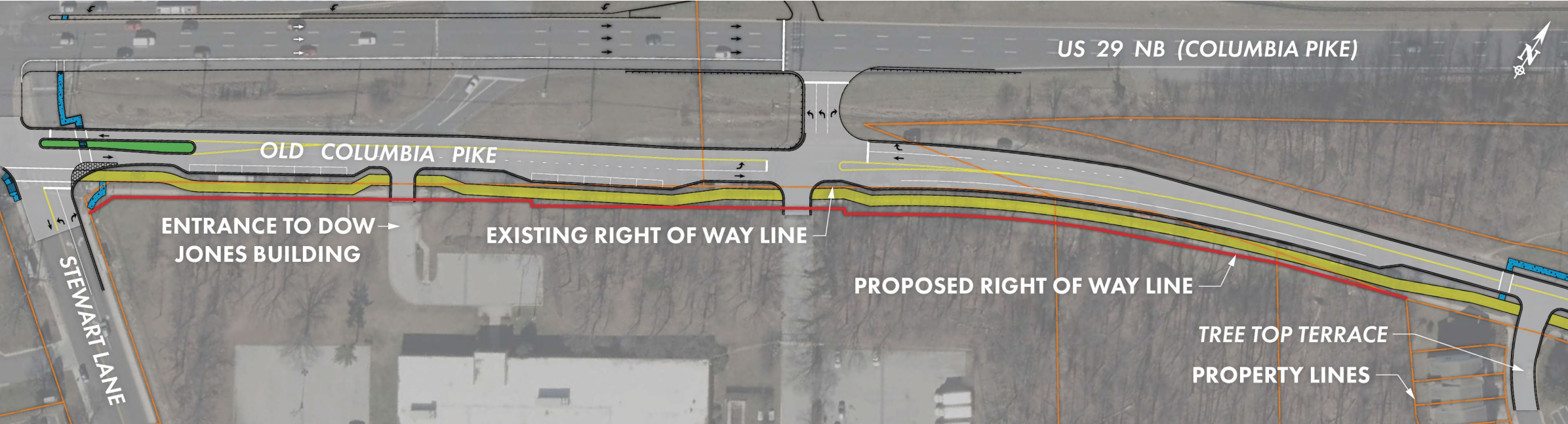
Roadway Characteristics

- Per MC Complete Streets Guideline (February 2021)
 - Town Center Street
 - From Industrial Parkway to Cherry Hill Road
 - 25 MPH target speed
 - 11 feet wide outside travel lane / 10 feet wide inside through/left turn lane
 - 10 feet sidewalk / 10 feet wide sidepath

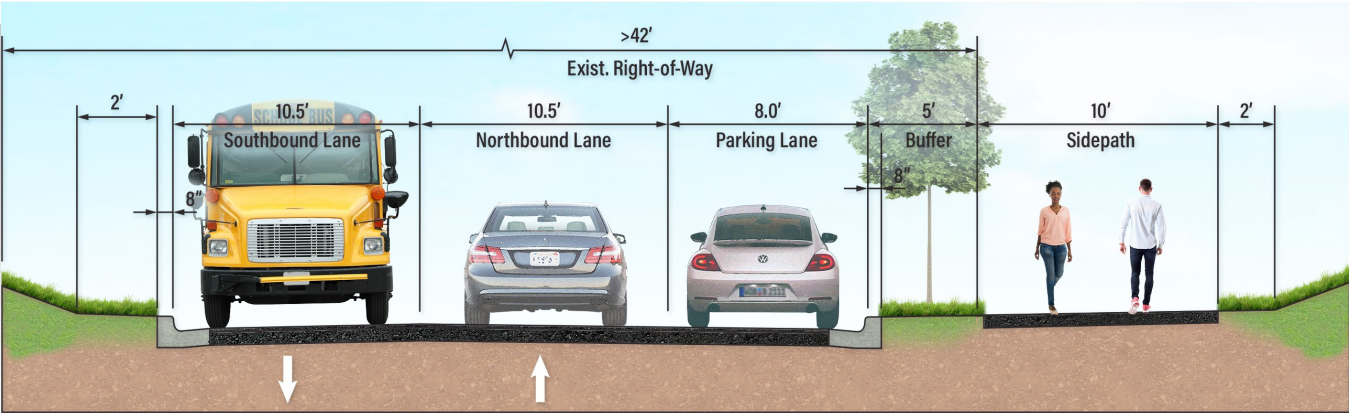


***Example of town center street
Tuckerman Lane near Grosvenor Metro Station***

Alternative 2

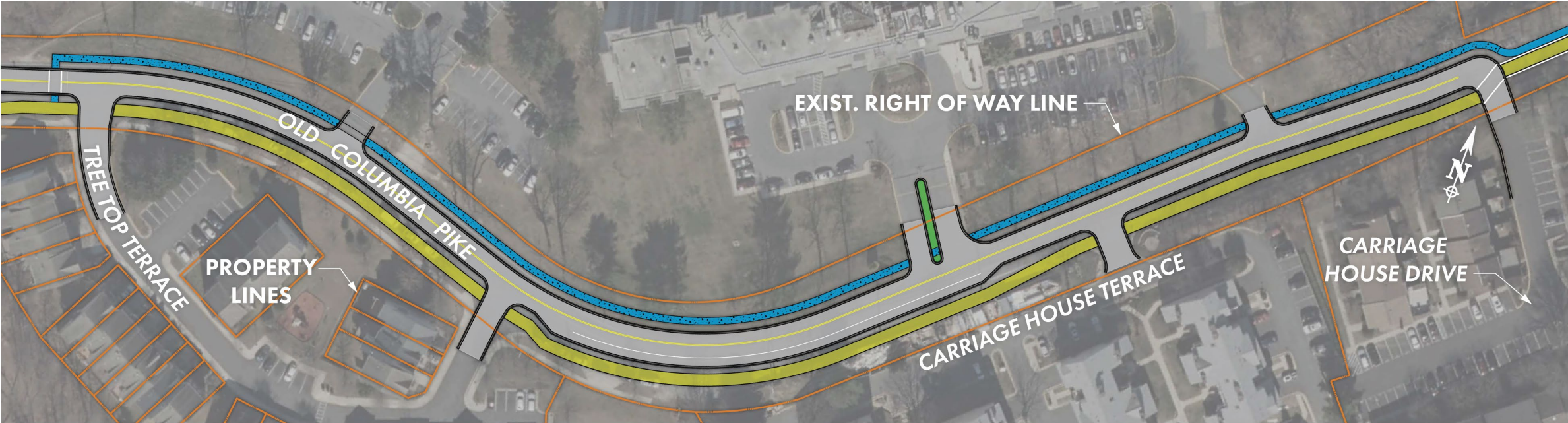


- Sidewalk
- Sidepath
- Stamped Concrete
- Roadway Pavement
- Channelizing Island
- Property Line / Right-of-Way

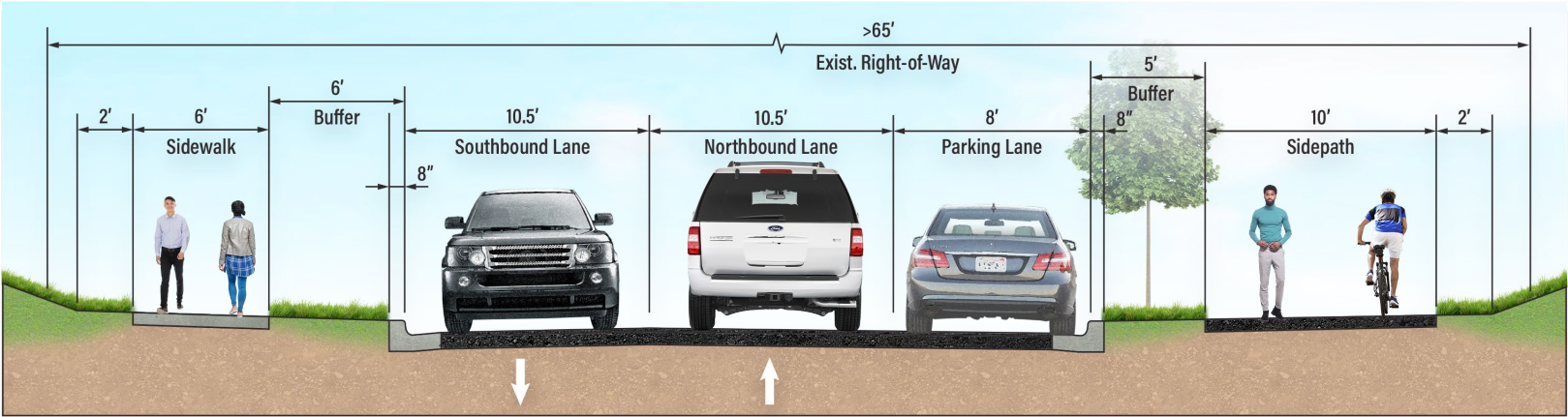


Neighborhood Connector Typical Section from Stewart Lane to Treetop View Terrace

Alternative 2





Sidewalk  Sidepath  Roadway Pavement  Property Line / Right-of-Way 

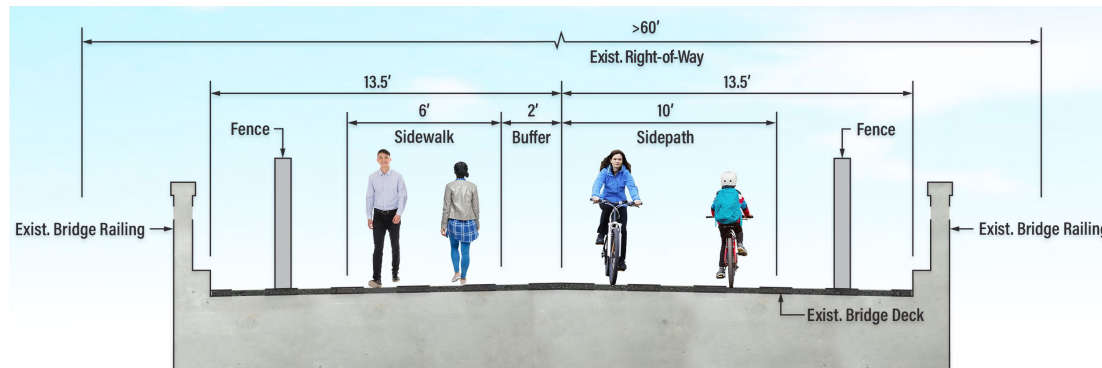


Neighborhood Connector Typical Section from Treetop View Ter to Paint Branch Bridge

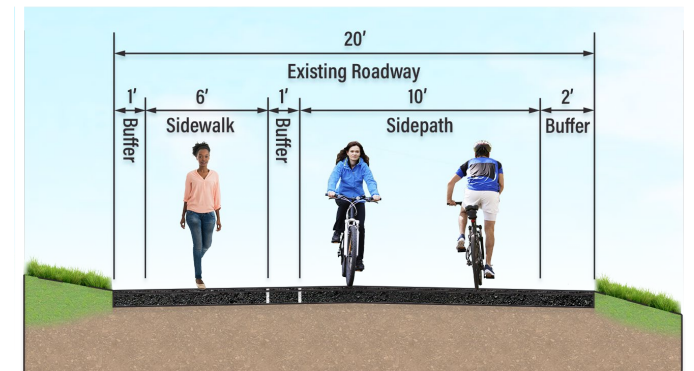
Alternative 2



Sidewalk  Sidepath  Roadway Pavement  Existing Bridge  Property Line / Right-of-Way 

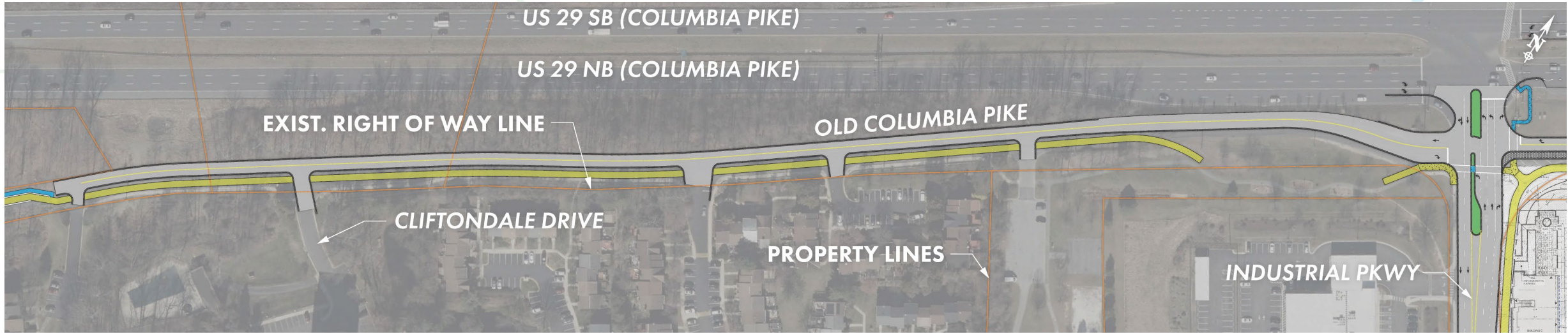


**Proposed Typical Section Bridge over Paint Branch
Closed to Vehicular Traffic, Open to Pedestrian Bicyclist**

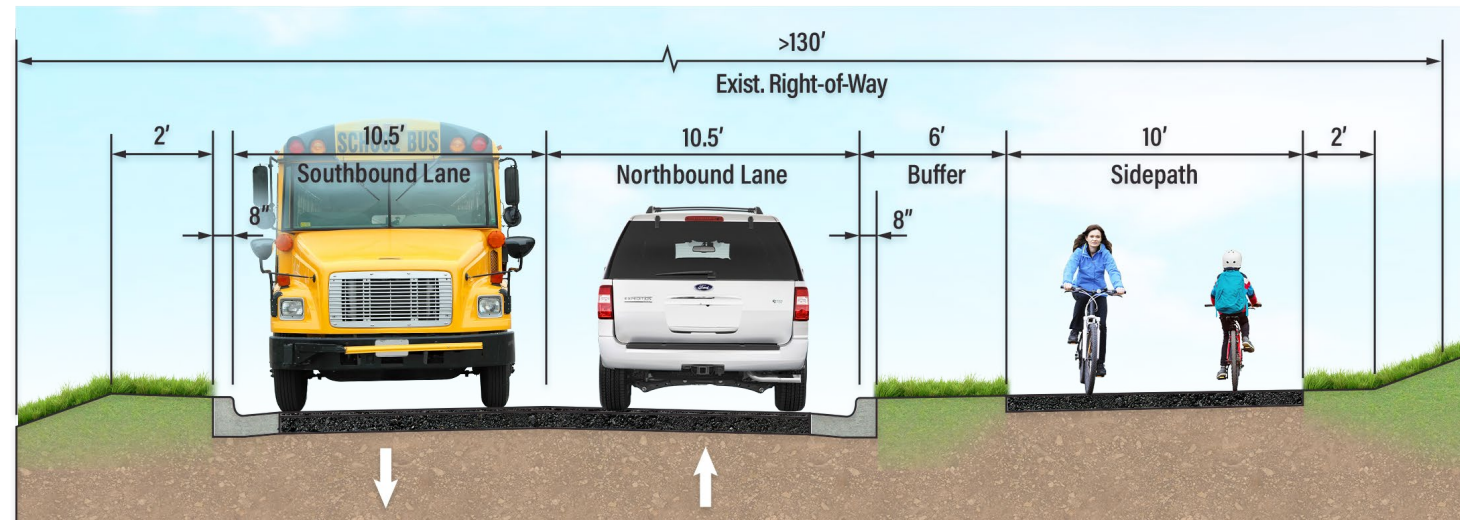


**Neighborhood Connector Typical Section from Paint Branch
Bridge to 0.4 Mile South of Industrial Pkwy Intersection**

Alternative 2

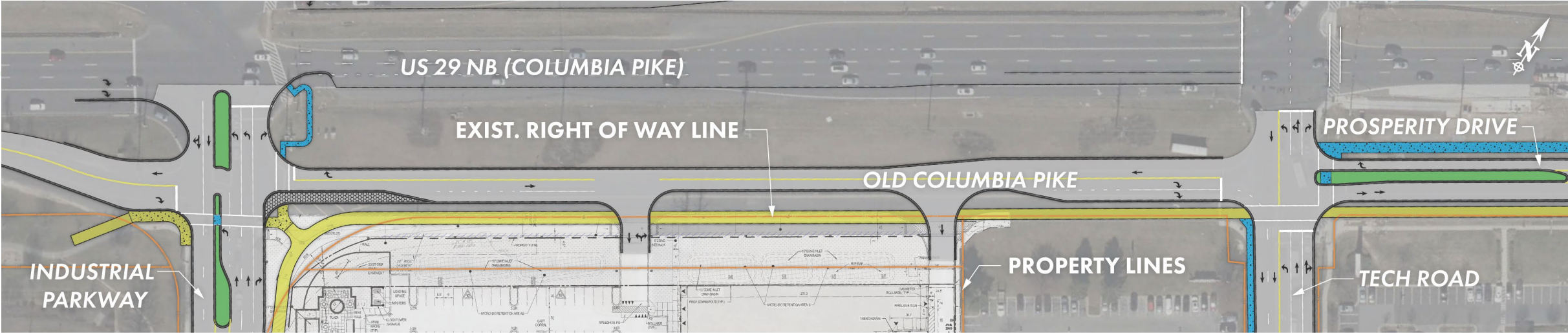


Sidewalk  Sidepath  Roadway Pavement  Channelizing Island  Property Line / Right-of-Way 

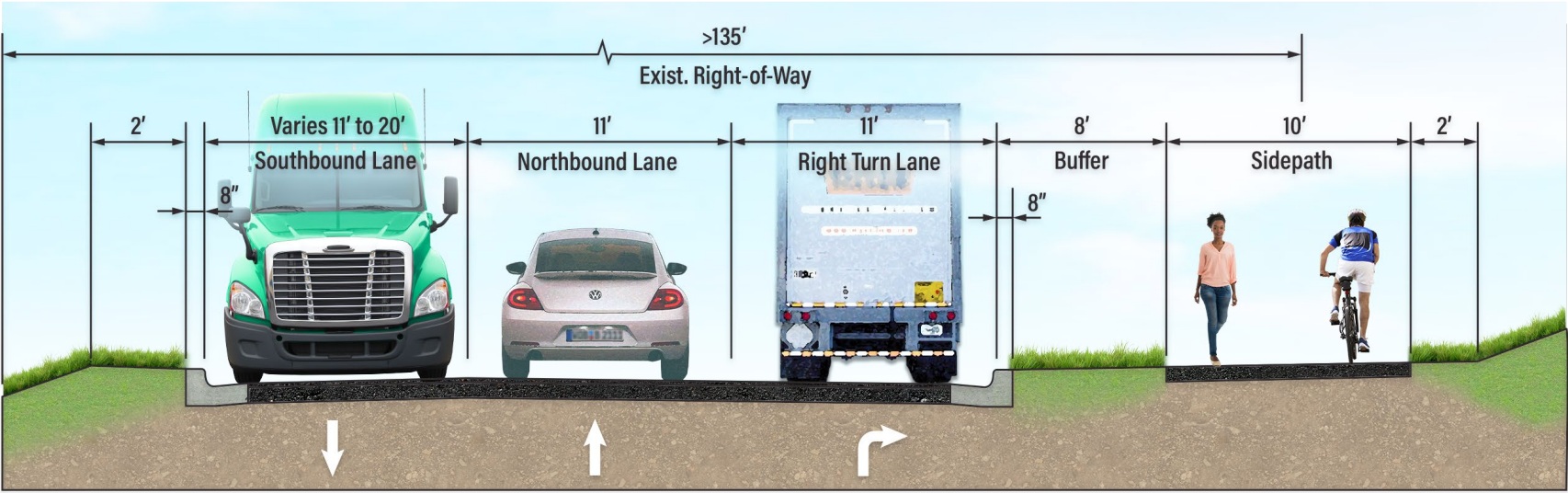


Neighborhood Connector Typical Section from 0.4 mile to 675' South of Industrial Pkwy Intersection

Alternative 2








Sidewalk  Sidepath  Stamped Concrete  Roadway Pavement  Channelizing Island  Property Line / Right-of-Way 

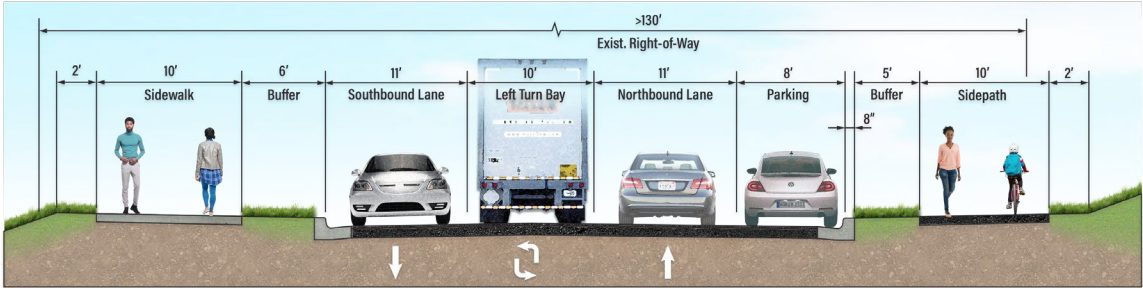


Town Center Street Typical Section (Looking North) From Industrial Pkwy to Tech Rd

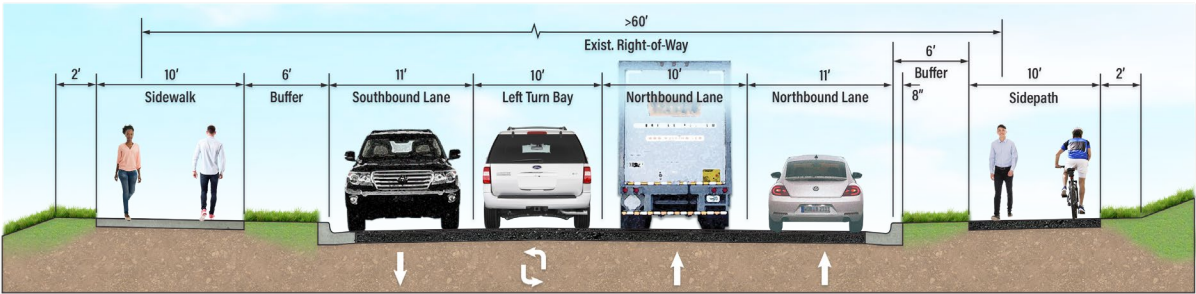
Alternative 2



Sidewalk  Sidepath  Roadway Pavement  Channelizing Island  Property Line / Right-of-Way 



Town Center Street Typical Section (Looking North) From Tech Road to Prosperity Terrace



Town Center Street Typical Section (Looking North) From Prosperity Terrace to Cherry Hill Road

Conceptual Design

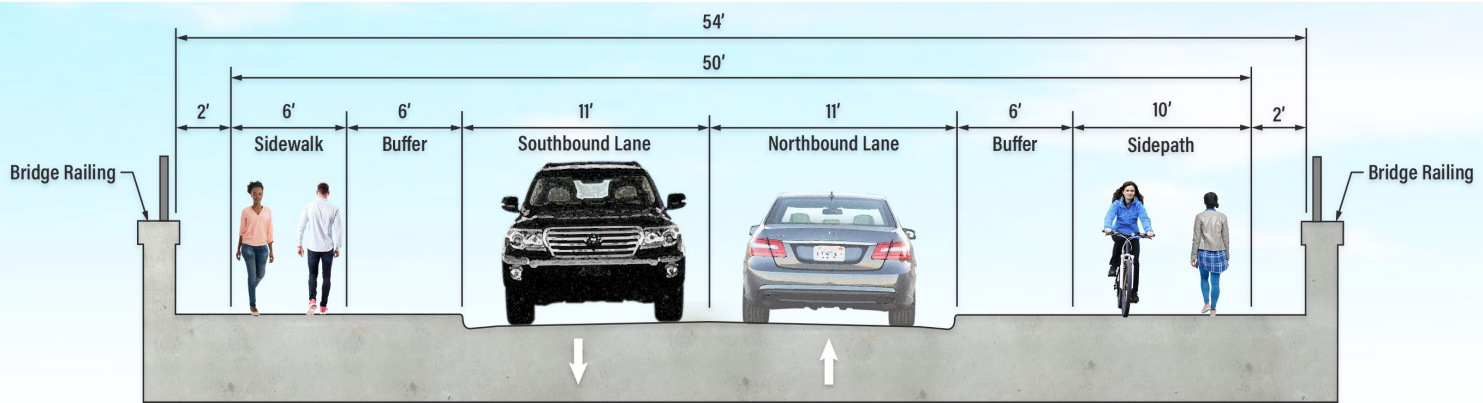
Alternative 3: Alternative 2 + bridge open to traffic

- Maintain one lane in each direction
- Improve intersections for safety and operations
- Install pedestrian and bicyclist Improvements
- Bridge opens to one lane in each direction

Alternative 3

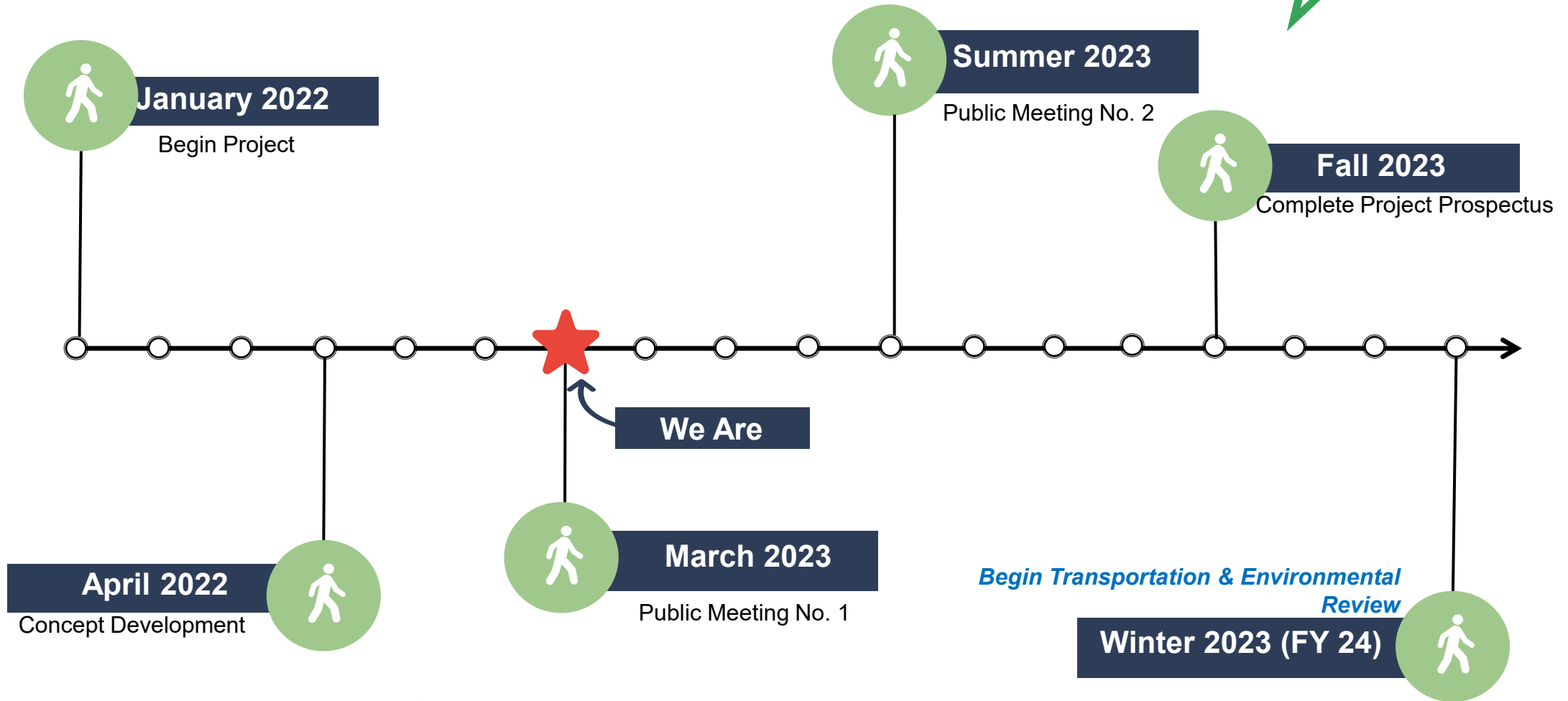


Sidewalk  Sidepath  Roadway Pavement  New Bridge 



*Proposed Typical Section Bridge over Paint Branch
2-Lanes/2-Way Traffic with Sidewalk and Sidepath*

Project Schedule



Contact



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Project Manager



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<https://www.montgomerycountymd.gov/dot-dte/projects/OldColumbiaPike/index.html>





Questions?

References

- Project Website - <https://www.montgomerycountymd.gov/dot-dte/projects/OldColumbiaPike/index.html>
- MC Vision Zero Plan - <https://www.montgomerycountymd.gov/visionzero/>
- MC Complete Streets Guide - <https://montgomeryplanning.org/planning/transportation/complete-streets/>
- Road diet - <https://highways.dot.gov/safety/proven-safety-countermeasures/road-diets-roadway-configuration>