

Rehabilitation of Brighton Dam Road Bridge No. M-0229 over Brighton Dam of Triadelphia Reservoir

PUBLIC MEETING #1

March 31, 2022





***PLEASE HOLD
YOUR QUESTIONS
TILL
THE END***

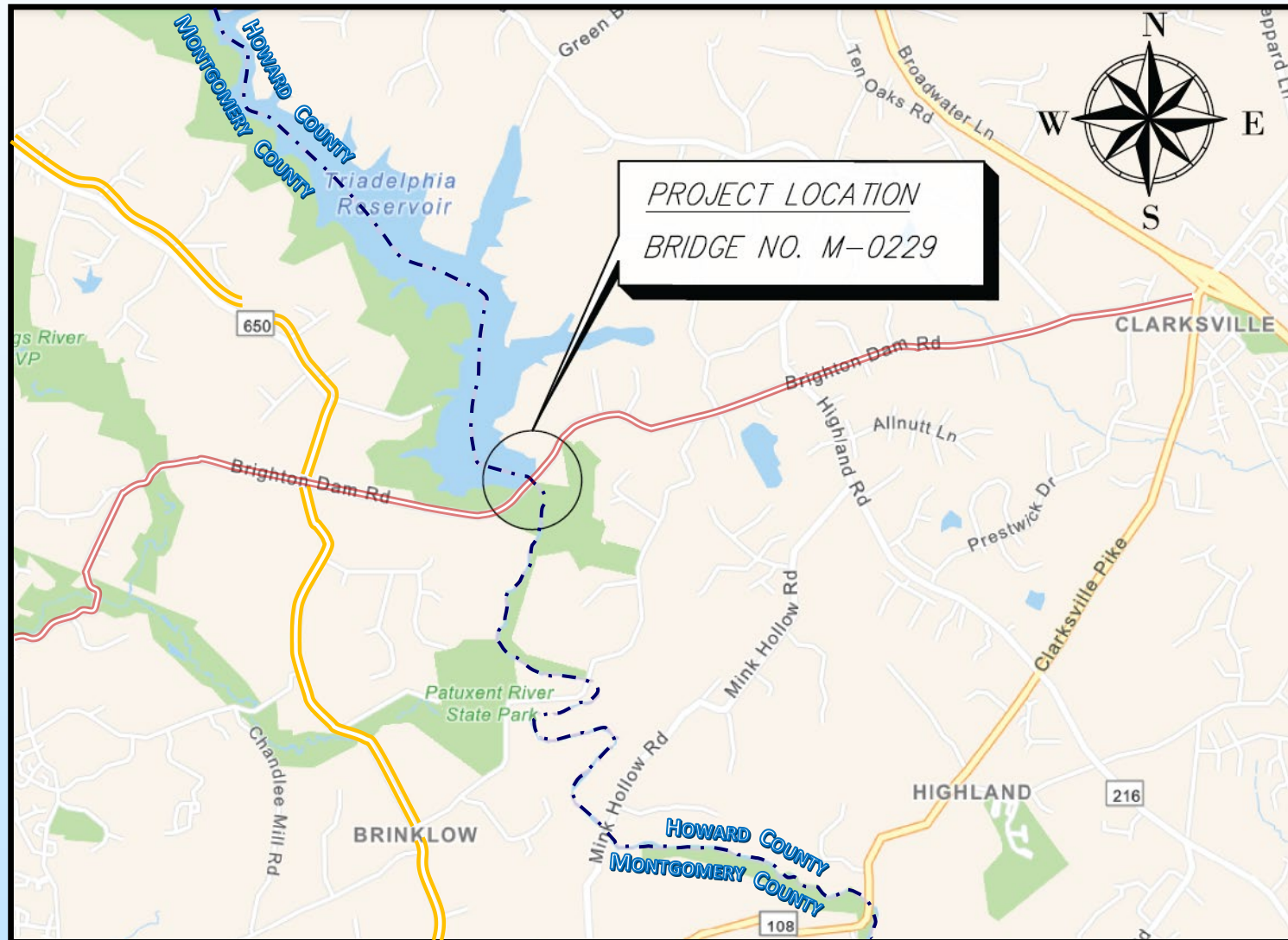
PURPOSE OF THE MEETING

- ◆ **Introduce project team**
- ◆ **Present scope of bridge rehabilitation**
- ◆ **Present maintenance of traffic during construction**
- ◆ **Present current project cost estimates, funding and schedule**
- ◆ **Obtain community input**

PROJECT TEAM

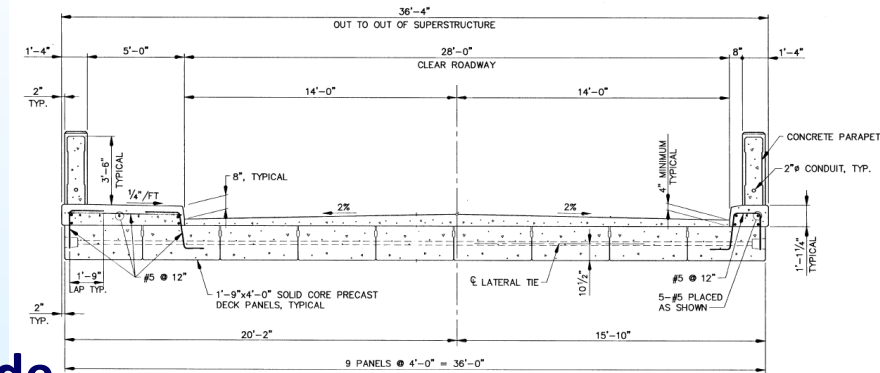
- ◆ **Montgomery County Department of Transportation (MCDOT)**
 - ❖ **Barry Fuss** **Bridge Design Chief**
 - ❖ **Greg Hwang** **Project Manager**
 - ❖ **Rogelio Abiog** **Construction Unit Engineer**
 - ❖ **Stella Igbiniedion** **Work Zone Program Manager**
 - ❖ **Patricia Shepherd** **Bikeways Coordinator**
- ◆ **Howard County Department of Public Works (HCDPW)**
 - ❖ **Nirav Patel** **Project Manager**
 - ❖ **Subin George** **Traffic Engineer**
 - ❖ **Christopher Eatough** **Bicycle and Pedestrian Coordinator**
- ◆ **Washington Suburban Sanitary Commission (WSSC)**
 - ❖ **Samir Khalil** **Project Manager**
 - ❖ **Eddie Franceschi** **Patuxent Watershed Manager**
- ◆ **Engineering Consultant:**
 - ❖ **Stantec Consulting Services, Inc. (Prime) - Bimal Patel / Doug Li**
 - ❖ **Mercado Consultants, Inc. (Sub) - Michael Mercado / Katie Whiteman**

PROJECT LOCATION

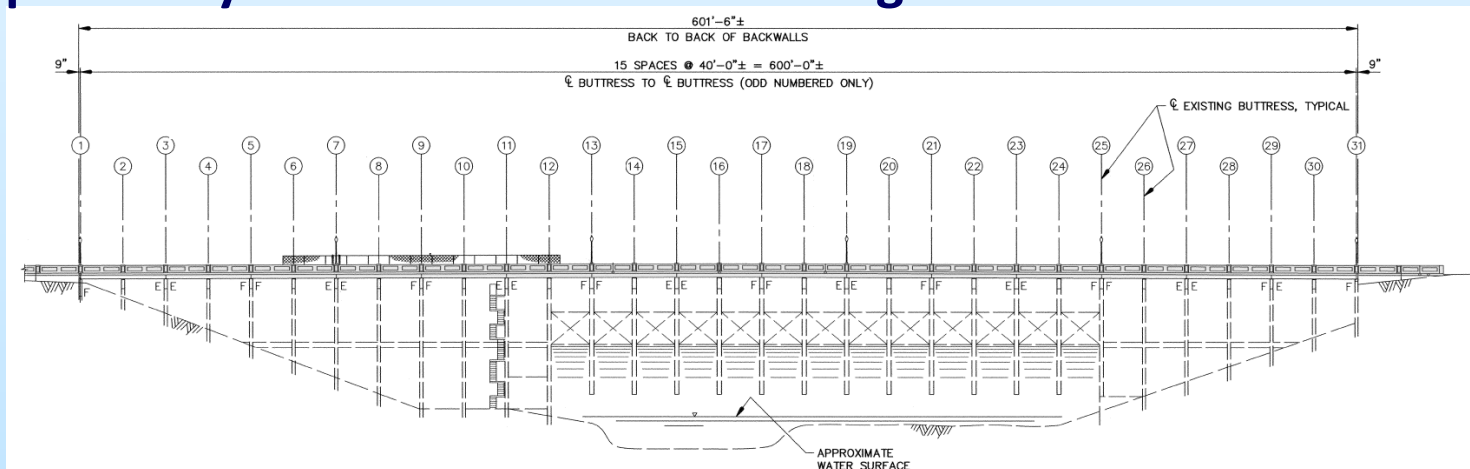


EXISTING BRIDGE

- ◆ Reconstructed in 1999
- ◆ 601'-6" +/- long 15-span prestressed concrete solid slab beams with concrete wearing surface structure
- ◆ 2-lane 28-foot clear roadway
- ◆ 5-foot concrete sidewalk on north side
- ◆ 8-inch concrete curb on south side
- ◆ 1'-4" concrete parapet on both sides
- ◆ Supported by concrete buttresses of Brighton Dam



BRIDGE TYPICAL SECTION



DAM AND BRIDGE ELEVATION

SCOPE OF BRIDGE REHABILITATION

1. Repair concrete parapets



2. Repair prestressed concrete beams



SCOPE OF BRIDGE REHABILITATION

3. Repair concrete buttress backwalls



4. Replace bridge deck compression joints



SCOPE OF BRIDGE REHABILITATION

5. Replace existing street light fixtures and concrete poles with in-kind LED light fixtures and aluminum poles



SCOPE OF BRIDGE REHABILITATION

- 6. Seal cracks on concrete deck wearing surface**

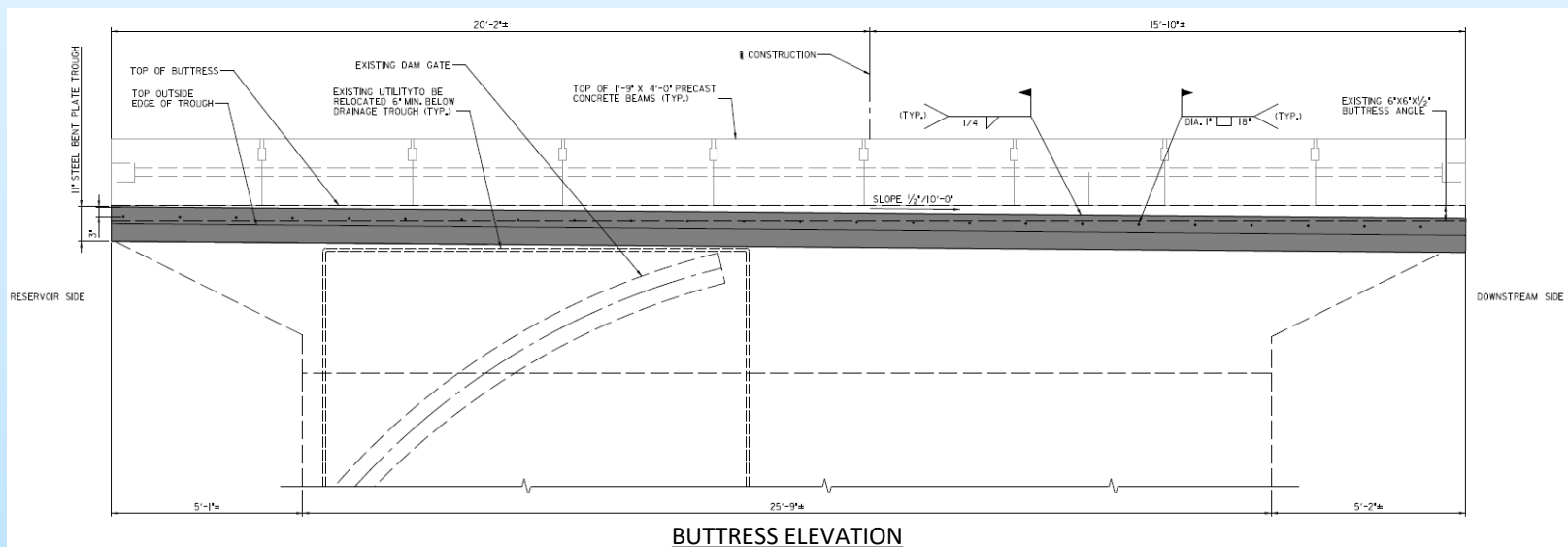
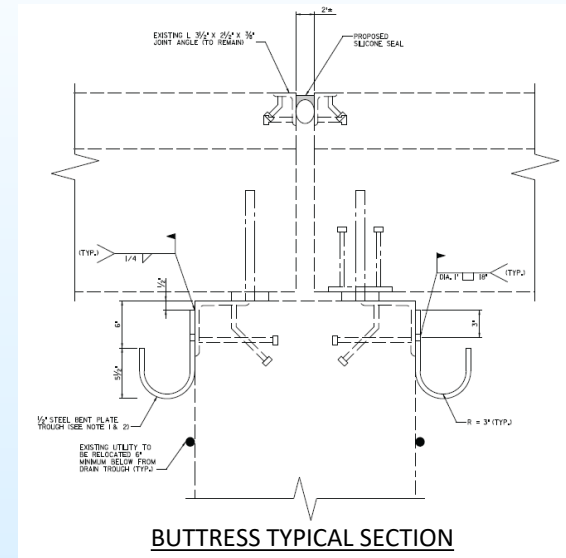


- 7. Repair approach concrete sidewalk at both ends of the bridge**



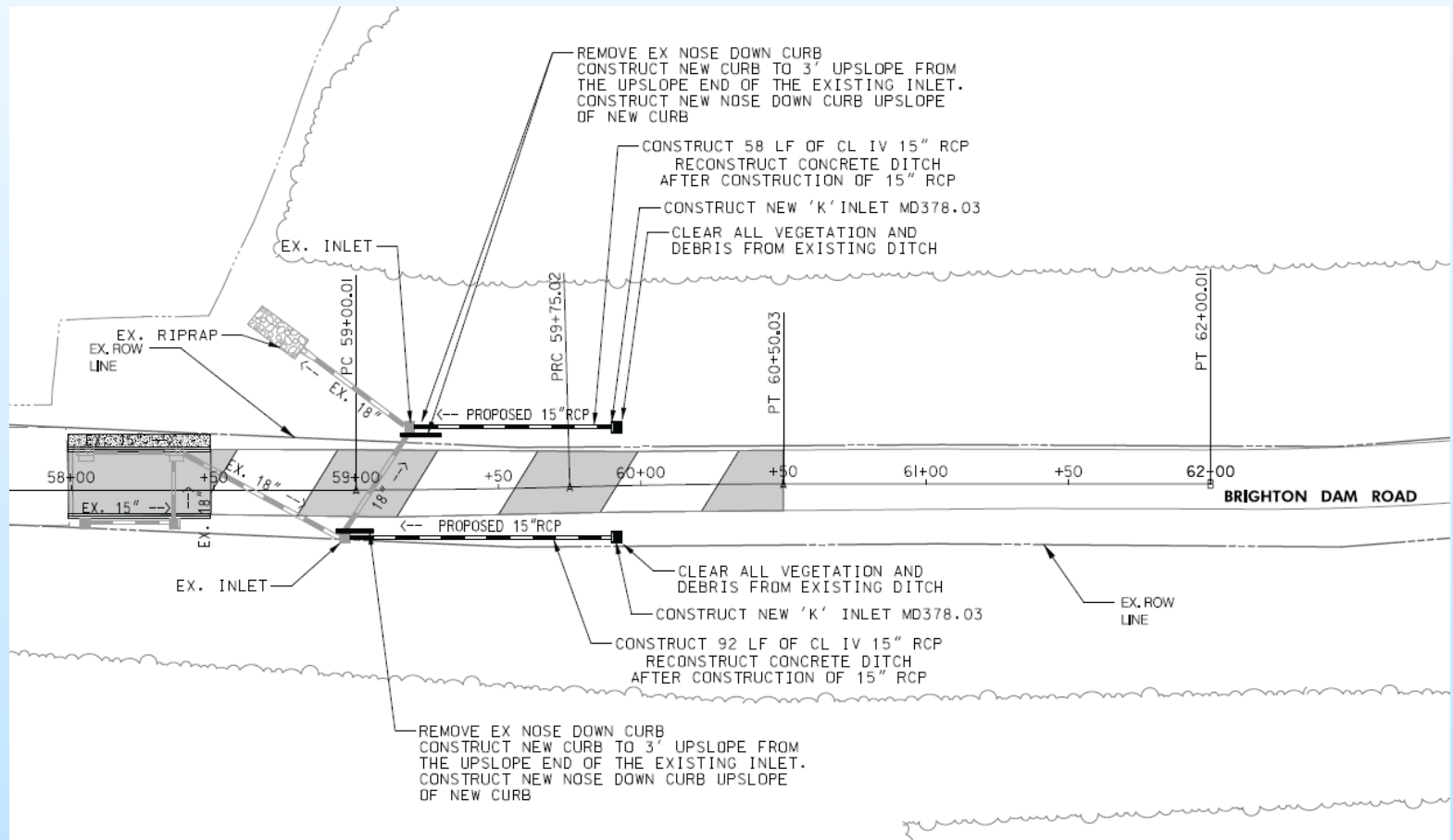
SCOPE OF BRIDGE REHABILITATION

8. Install new drainage troughs on both side of buttress nos. 11, 13, 15, 17, 19, 21, 23, 25 under deck expansion joints



SCOPE OF BRIDGE REHABILITATION

9. Improve storm drainage at approach on Howard County side
10. Resurface/repave asphalt approach roadway on Howard County side

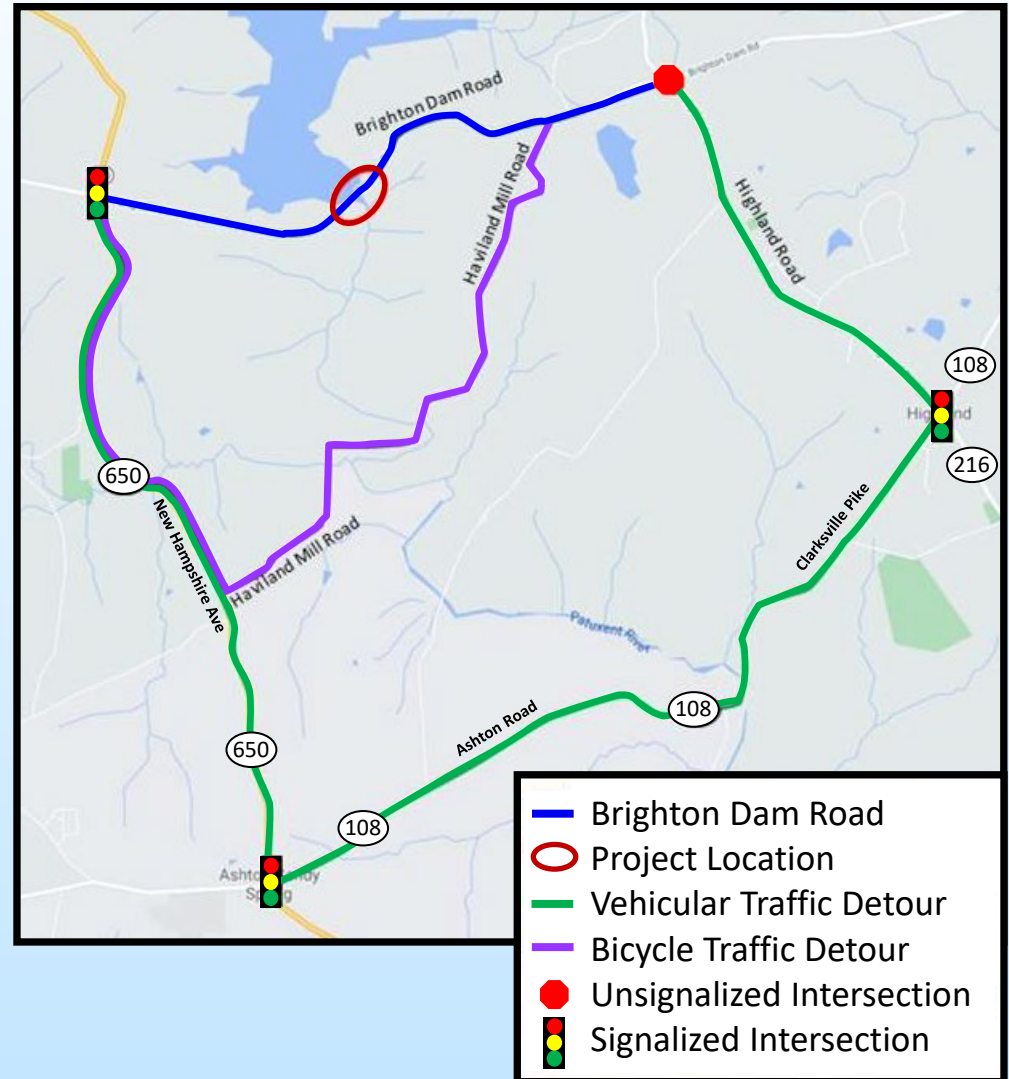


MAINTENANCE OF TRAFFIC DURING CONSTRUCTION

<u>Alternative 1</u> 2-way 1-lane with temporary signals over the bridge for vehicular traffic and detour for bicycle traffic	<u>Alternative 2 (Selected)</u> Full bridge closure with detour for vehicular traffic and bicycle traffic
Two-stage Construction	One-stage Construction
20 weeks Construction Time	12 weeks Construction Time
\$1.83M Construction Costs	\$1.19M Construction Costs
Risk to construction workers and passing traffic	No passing traffic
Less than 2 minutes increase in travel time	10 minutes increase in travel time

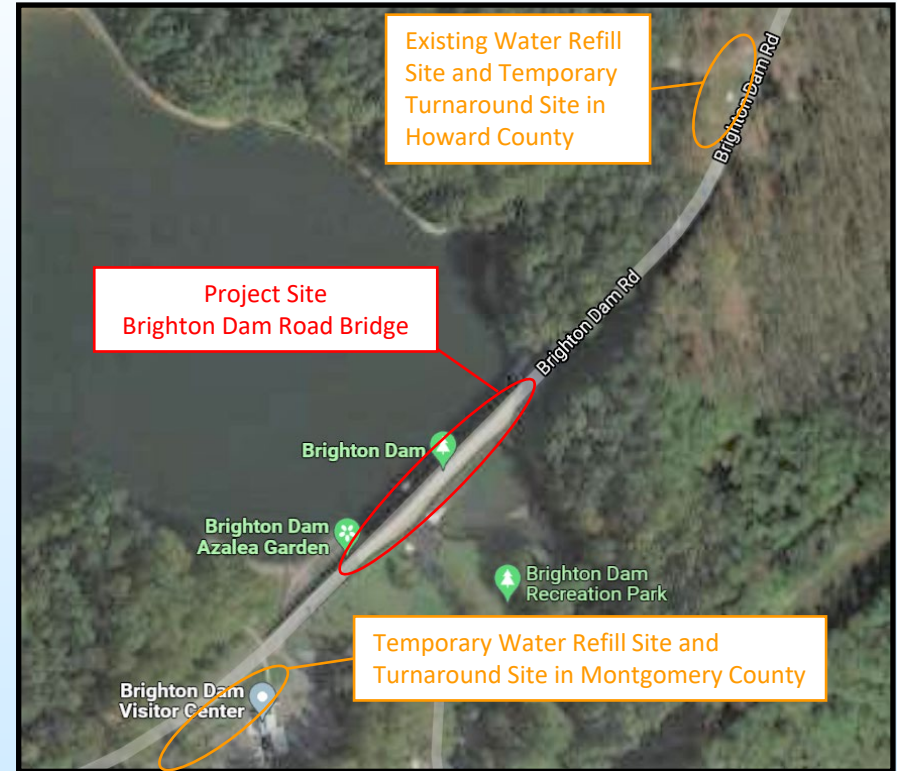
MAINTENANCE OF TRAFFIC DURING CONSTRUCTION

- ◆ **Vehicular traffic detour:**
 - 9.2-mile detour route through New Hampshire Avenue (MD 650 in MC) – Ashton Road (MD 108 in MC) – Clarksville Pike (MD 108 in HC) – Highland Road (in HC) with detour signage
- ◆ **Bicycle traffic detour:**
 - 5-mile detour route through New Hampshire Ave (MD 650 in MC) – Haviland Mill Road (in MC and HC) with detour signage



MAINTENANCE OF TRAFFIC DURING CONSTRUCTION

- ◆ Existing access for Brighton Dam Visitor Center and Azalea Garden maintained
- ◆ Temporary turnaround sites provided on both the Montgomery County side and Howard County side for public school buses, police vehicles, and fire and rescue trucks
- ◆ Existing water refill site on the Howard County side maintained for tanker fire trucks
- ◆ Temporary water refill tank provided on the Montgomery County side for tanker fire trucks



CURRENT PROJECT COST ESTIMATES, FUNDING AND SCHEDULE

- ◆ **Current Project Status: Preliminary Design Stage**
- ◆ **Current Project Cost Estimates**
 - ❖ **Total Project Cost** **\$ 2,250K**
 - ❑ **\$ 636K Engineering Costs**
 - ❑ **\$ 1,614K Construction and Construction Management Costs**
- ◆ **Current Project Funding**
 - ❖ **Montgomery County** **\$ 750K**
 - ❖ **Howard County** **\$ 750K**
 - ❖ **WSSC** **\$ 750K**
- ◆ **Current Project Schedule**
 - ❖ **Design Complete** **Fall 2022**
 - ❖ **Advertise for Bids** **Winter 2023**
 - ❖ **Begin Construction** **Spring 2023**
 - ❖ **End Construction** **Summer 2023**

NEXT STEP AND COMMUNITY INPUT

◆ Proceed with Final Design based on

- ❖ Comments from permitting agencies: HCDPW, HC Soil Conservation District, MDOT SHA District Offices, etc.
- ❖ Feedback from the community thru **April 30, 2022**, by:
 - Tonight's feedback
 - Online comment form: <https://forms.office.com/g/qz7kVe6zy7>
 - Email to Greg.Hwang@montgomerycountymd.gov

◆ For Project Information

- ❖ Contact MCDOT's project manager:
Greg Hwang, P.E.
MCDOT, Division of Transportation Engineering
Phone: 240-777-7279
Email: Greg.Hwang@montgomerycountymd.gov
- ❖ Access MCDOT's project webpage:
<https://montgomerycountymd.gov/dot-dte/projects/BrightonDamRd/Index.html>

QUESTIONS?



**Thank
you**