



Montgomery County Department of Transportation (DOT)  
Montgomery County Department of Environmental Protection (DEP)

# Public Meeting

Replacement of Dennis Avenue Bridge  
No. M-0194 over Wheaton Branch (by DOT) and  
Wheaton Branch Flood Mitigation (by DEP)





# Presentation Agenda

- ◆ **Project Team Introduction**
- ◆ **Project Purpose and Need**
- ◆ **Preliminary Design Concepts**
- ◆ **Proposed Maintenance of Traffic During Construction**
- ◆ **Anticipated Project Schedule**
- ◆ **Obtain Community Input**



# Project Team

## ◆ **Montgomery County Department of Transportation (MCDOT)**

- Barry Fuss *Bridge Design Chief*
- Greg Hwang *Bridge Design Project Manager for Dennis Avenue Bridge project*
- Dewa Salihi *Construction Contracts*
- Eric Willis *Property Acquisition*
- Vincent Ho *Traffic Engineer (Signing and Pavement Marking)*
- Stella Igbinedion *Traffic Engineer (Workzone Traffic Maintenance)*

## ◆ **Montgomery County Department of Environmental Protection**

- Gene Gopenko *Project Manager for Wheaton Branch Flood Mitigation project*
- Jim Stiles *Manager, Design and Construction*

## ◆ **Engineering Consultant: GPI, Inc.**

- Angie Strevig *Project Manager*
- Melissa Ryder *Water Resource Engineer*
- Ben Wilson *Structural Engineer*



# Project Location



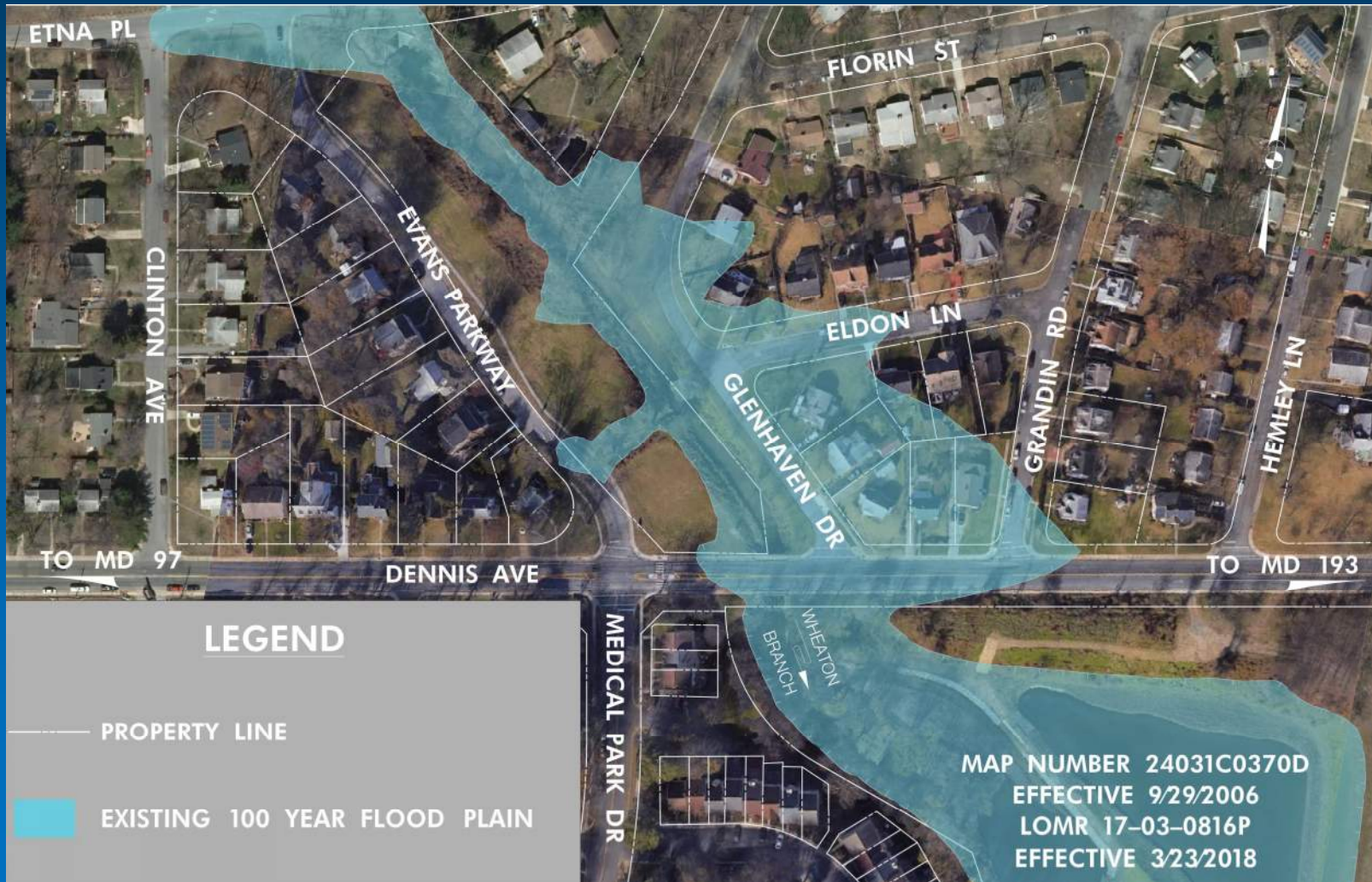


# Purpose and Need





# Existing Wheaton Branch Flood Plain



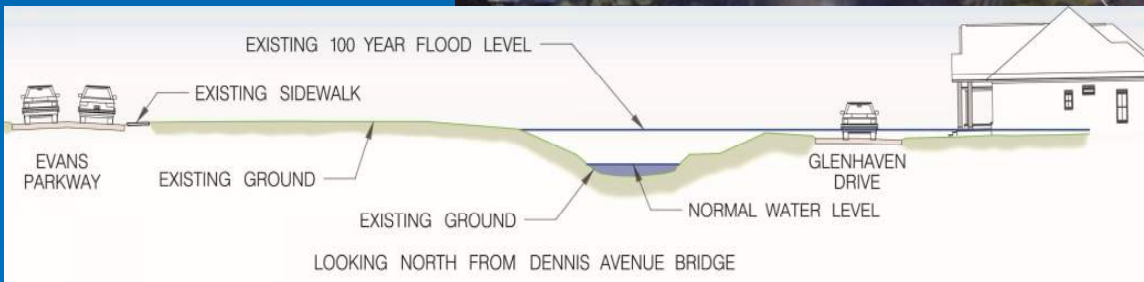
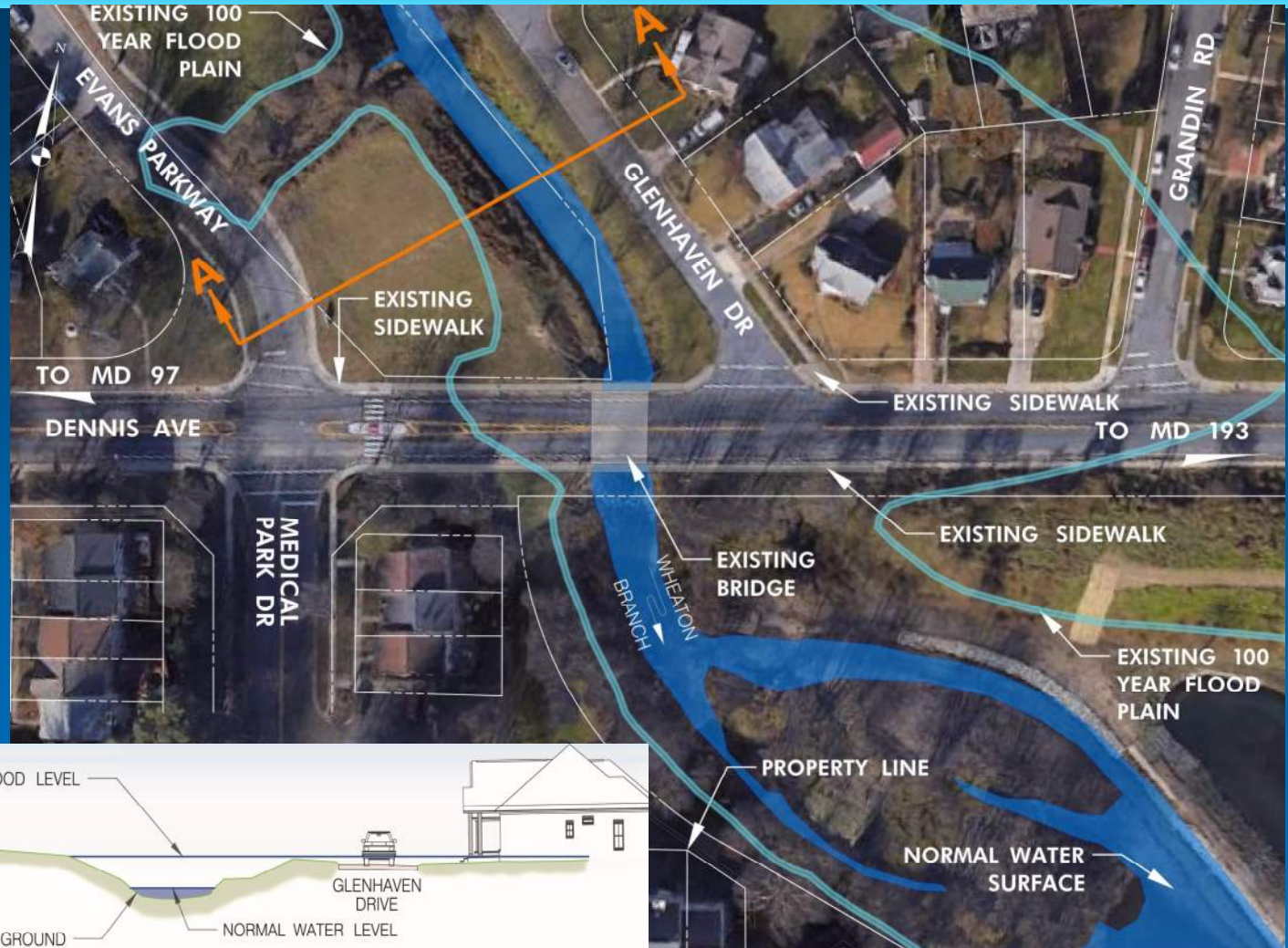


# Proposed Wheaton Branch Flood Plain





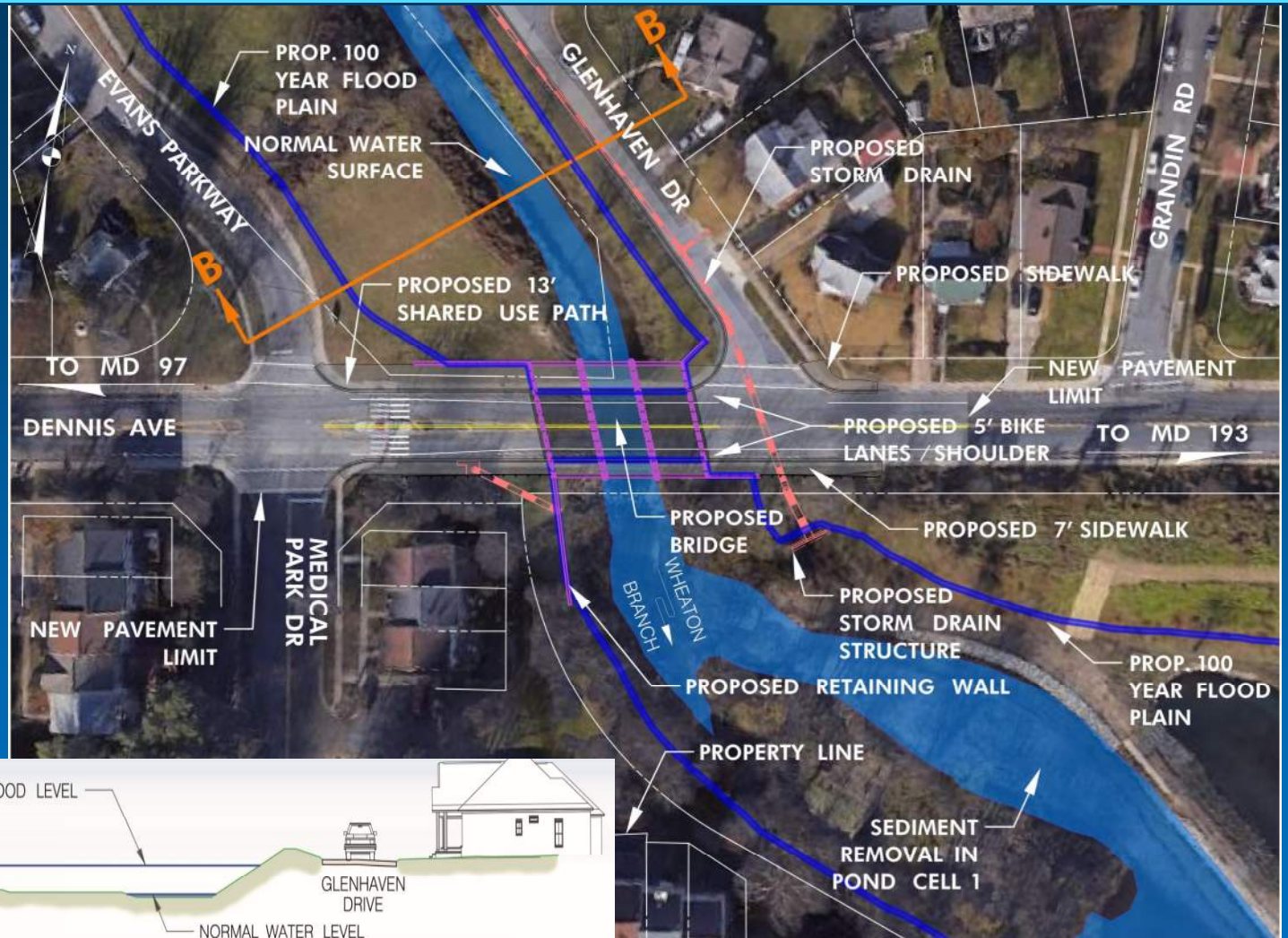
# Existing Dennis Avenue and Wheaton Branch



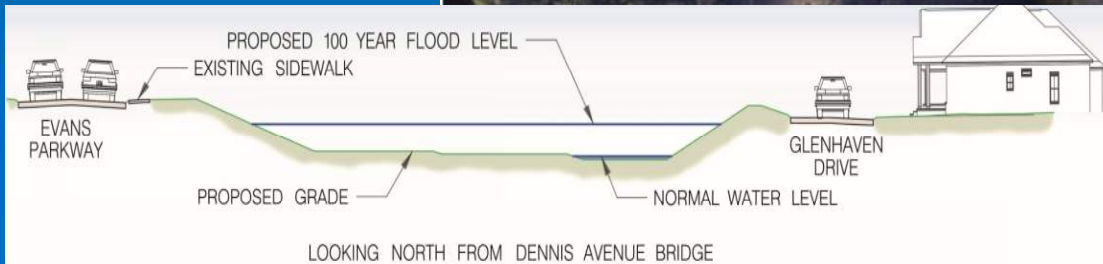




# Proposed Dennis Avenue and Wheaton Branch

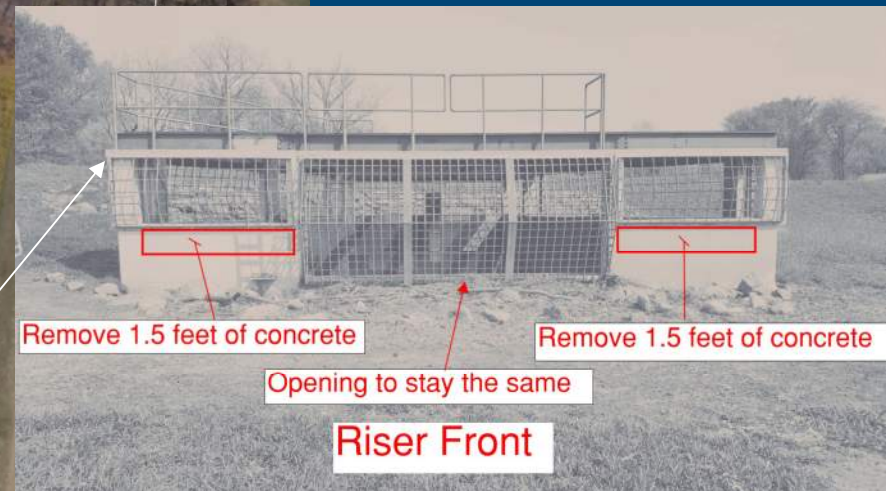
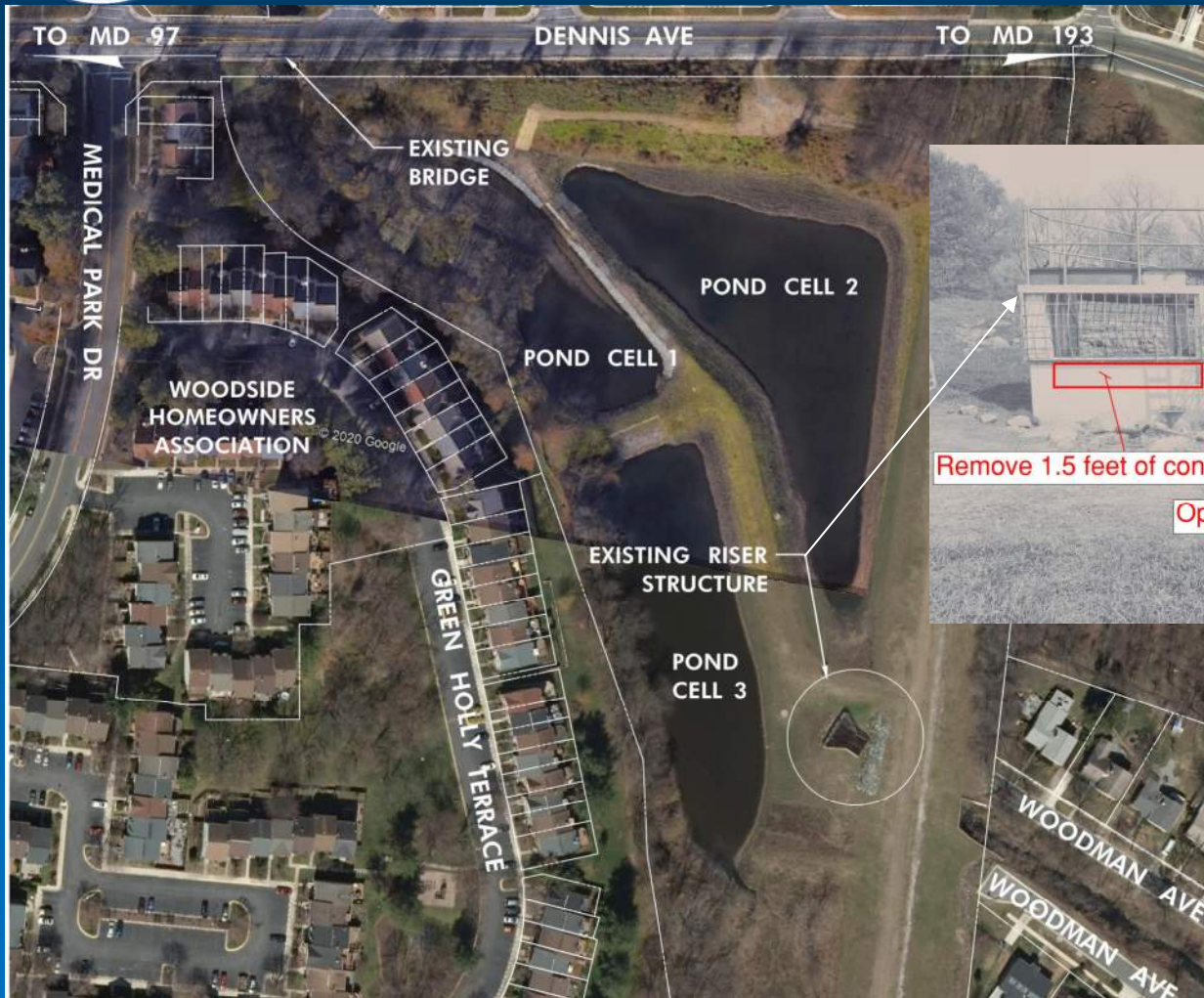


## Section B-B





# Riser Structure Modifications



Reduce height of concrete by 1.5 ft around the riser.

Riser Structure Location



# Existing Dennis Avenue Bridge



North elevation  
(looking downstream)

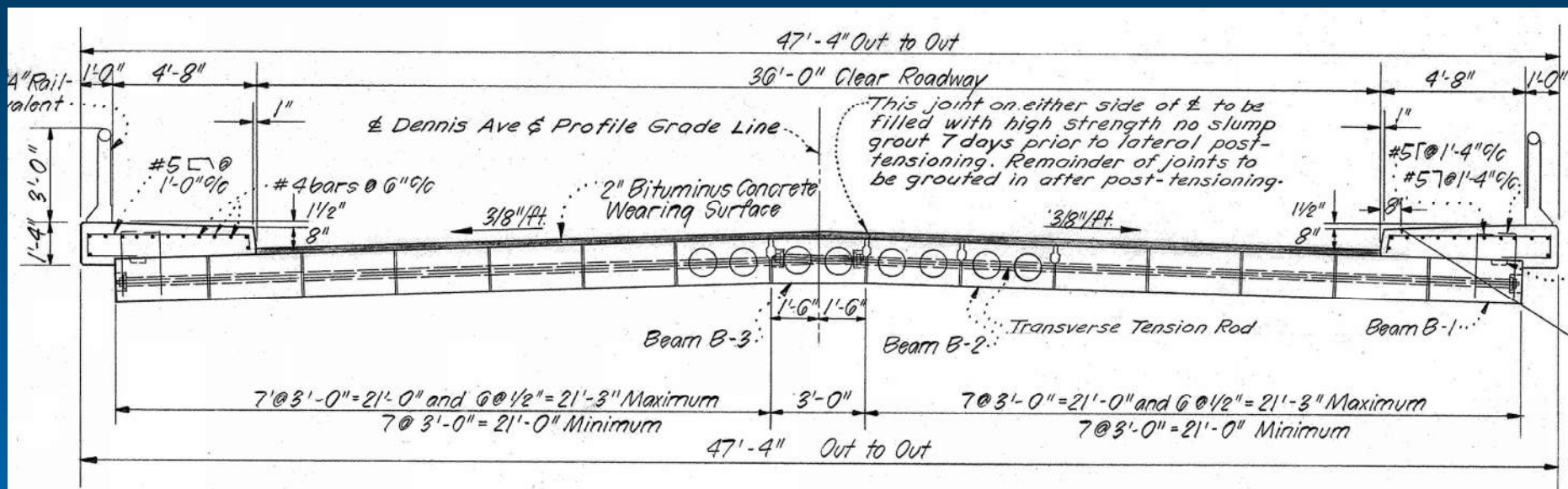


South elevation  
(looking upstream)

- Constructed in 1960 (60 years old)
- Single Span bridge with concrete voided slab beams
- 29'-0" Clear span between abutment faces
- Cantilever abutments and wingwalls on concrete piles



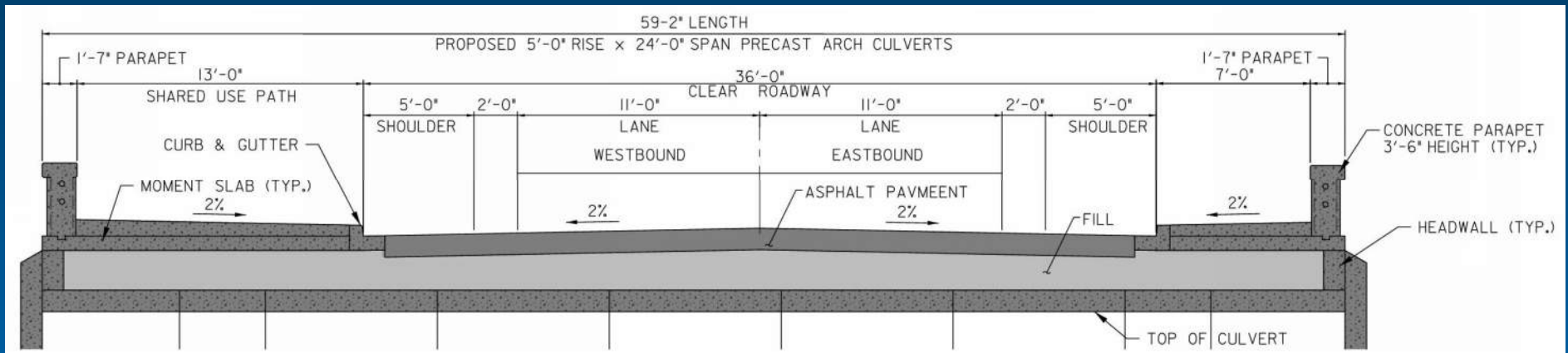
# Existing Bridge – Typical Section



- Lane Width (two lanes) = 15'-0"
- Shoulder Width = 3'-0"
- Clear Roadway Width = 36'-0"
- Sidewalk Width = 4'-8"
- Out-to-out Width = 47'-4"



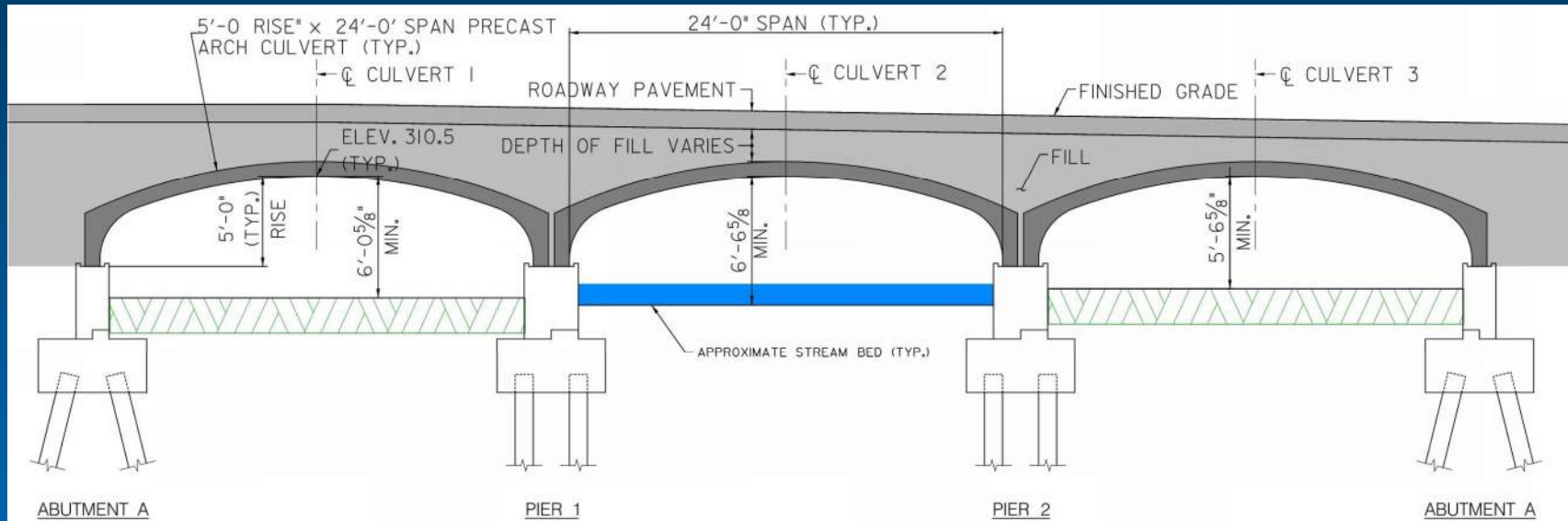
# Proposed Bridge – Typical Section



- Lane Width (two lanes) = 11'-0"
- Bicycle Compatible Shoulder Width = 5'-0"
- Clear Roadway Width = 36'-0"
- Sidewalk Width (south side) = 7'-0"
- Shared Use Path (north side) = 13'-0"
- Out-to-out Width = 59'-2"



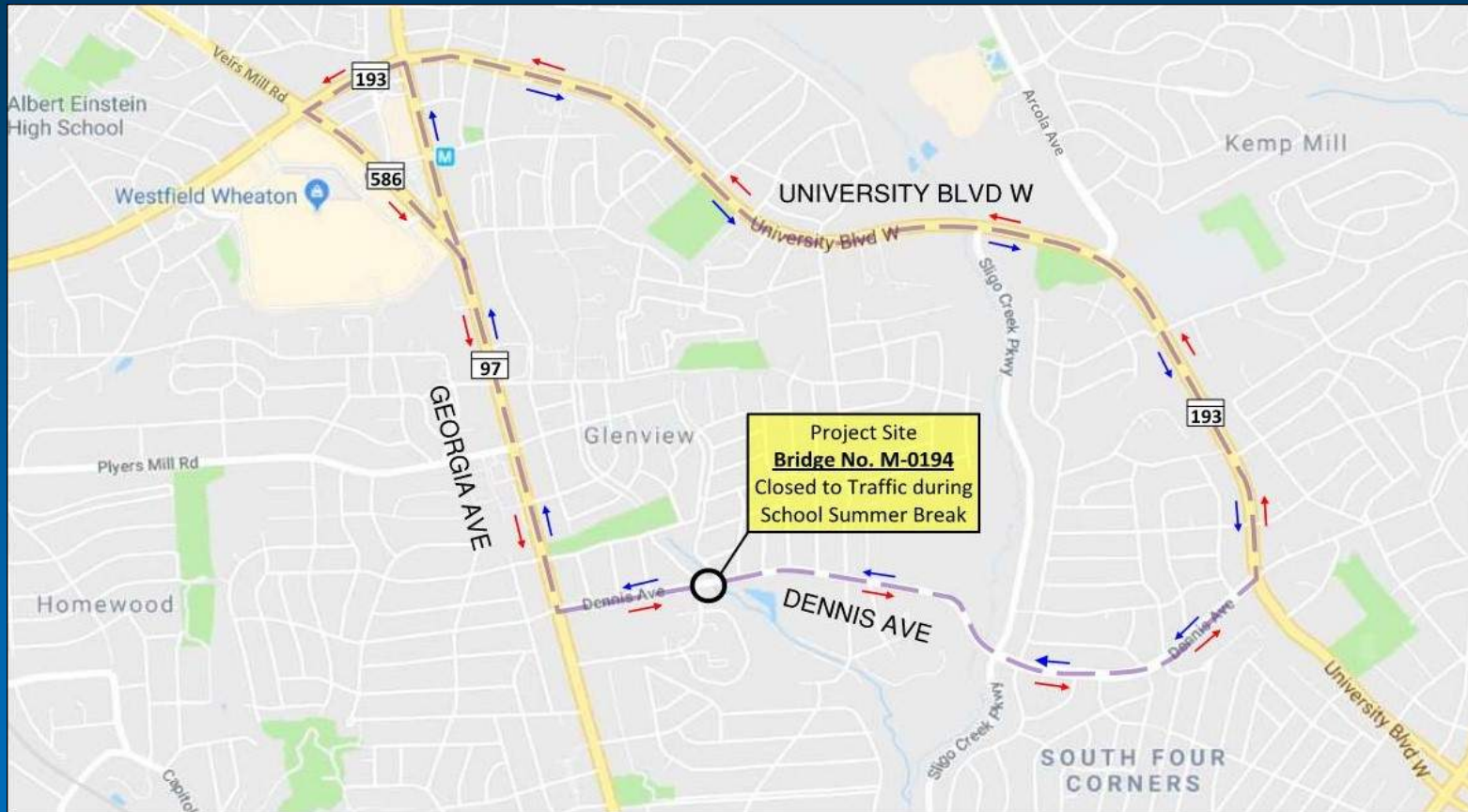
# Proposed Bridge – Elevation (Upstream)



- Three-cell precast concrete arch culvert (bottomless culverts)
- 24'-0" individual clear spans (80'-0" overall length)
- Concrete stub abutments and piers on steel piles



# Vehicular Traffic Detour



Replacement of Dennis Avenue Bridge No. M-0194

## 5-Mile Vehicular Traffic Detour

- Dennis Ave EB – University Blvd (MD 193) WB – Veirs Mill Rd (MD 586) SB – Georgia Ave (MD 97) SB – Dennis Ave EB
- Dennis Ave WB – Georgia Ave (MD 97) NB – University Blvd (MD 193) EB – Dennis Ave WB



# Temporary Pedestrian & Bicycle Access



- Provide Safe Pedestrian and Bicyclist Access during Construction
- Minimize Impact to Residential Properties





# Minimize Community Disruption

- ◆ **Detour vehicular traffic to shorten construction duration (Closure planned for school summer break)**
- ◆ **Maintain pedestrian and bicycle access with Temporary Pedestrian Bridge**
- ◆ **Coordination with Police, Fire and Rescue**
- ◆ **Work hours will follow County noise ordinances**
- ◆ **Minimal easements, no right-of-way needs**
- ◆ **Proper Erosion and Sediment Controls implemented to reduce impacts of storms during construction**
- ◆ **FEMA floodplain map revisions will affect some homeowners insurance**



## Existing Dennis Avenue Bridge and Wheaton Branch Looking North - Bird's Eye View





# Proposed Dennis Avenue Bridge and Wheaton Branch Looking North - Bird's Eye View





# Estimated Project Costs

## ◆ Replacement of Dennis Avenue Bridge M-0194 (DOT)

- Current Estimated Total Cost = \$5.6M
- Federal Funds = \$3.6M
- County Funds = \$2.0M

## ◆ Wheaton Branch Flood Mitigation (DEP)

- Current Estimated Total Cost = \$3.2M
- Anticipated partial funding by FEMA Grant
- Balance funded by Montgomery County



# Estimated Project Schedule

- |  |               |             |
|--|---------------|-------------|
| ◆ <b>Final Design Complete</b>               | <b>Summer</b> | <b>2021</b> |
| ◆ <b>Advertise for Construction</b>          | <b>Fall</b>   | <b>2021</b> |
| ◆ <b>Begin Flood Mitigation Construction</b> | <b>Spring</b> | <b>2022</b> |
| ◆ <b>Begin Bridge Construction</b>           | <b>Spring</b> | <b>2022</b> |
| ◆ <b>End Bridge Construction</b>             | <b>Fall</b>   | <b>2022</b> |
| ◆ <b>End Flood Mitigation Construction</b>   | <b>Winter</b> | <b>2022</b> |



## Next Step

- ◆ **Proceed with Final Design based on**
  - **Comments from Agencies –**  
FHWA, MSHA, MCDPS, MDE, FEMA, M-NCPPC, etc.
  - **Feedback from Community –**  
Comment Period: **ONE MONTH**

For project information, or to submit additional comments, please contact:

DOT Project Manager: **Greg Hwang** Phone: **240-777-7279**

Email: [Greg.Hwang@montgomerycountymd.gov](mailto:Greg.Hwang@montgomerycountymd.gov)

Division of Transportation Engineering Home Page:

<https://www.montgomerycountymd.gov/dot-dte/>

DEP Project Manager: **Gene Gopenko** Phone: **240-777-7723**

Email: [Gene.Gopenko@montgomerycountymd.gov](mailto:Gene.Gopenko@montgomerycountymd.gov)

Department of Environmental Protection Home Page:

<https://www.montgomerycountymd.gov/DEP/>



# Dennis Avenue Bridge Replacement and Wheaton Branch Flood Mitigation Public Meeting

Project Webpage Link:

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

DEP: <https://www.montgomerycountymd.gov/water/stormwater/major-projects.html>



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