



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



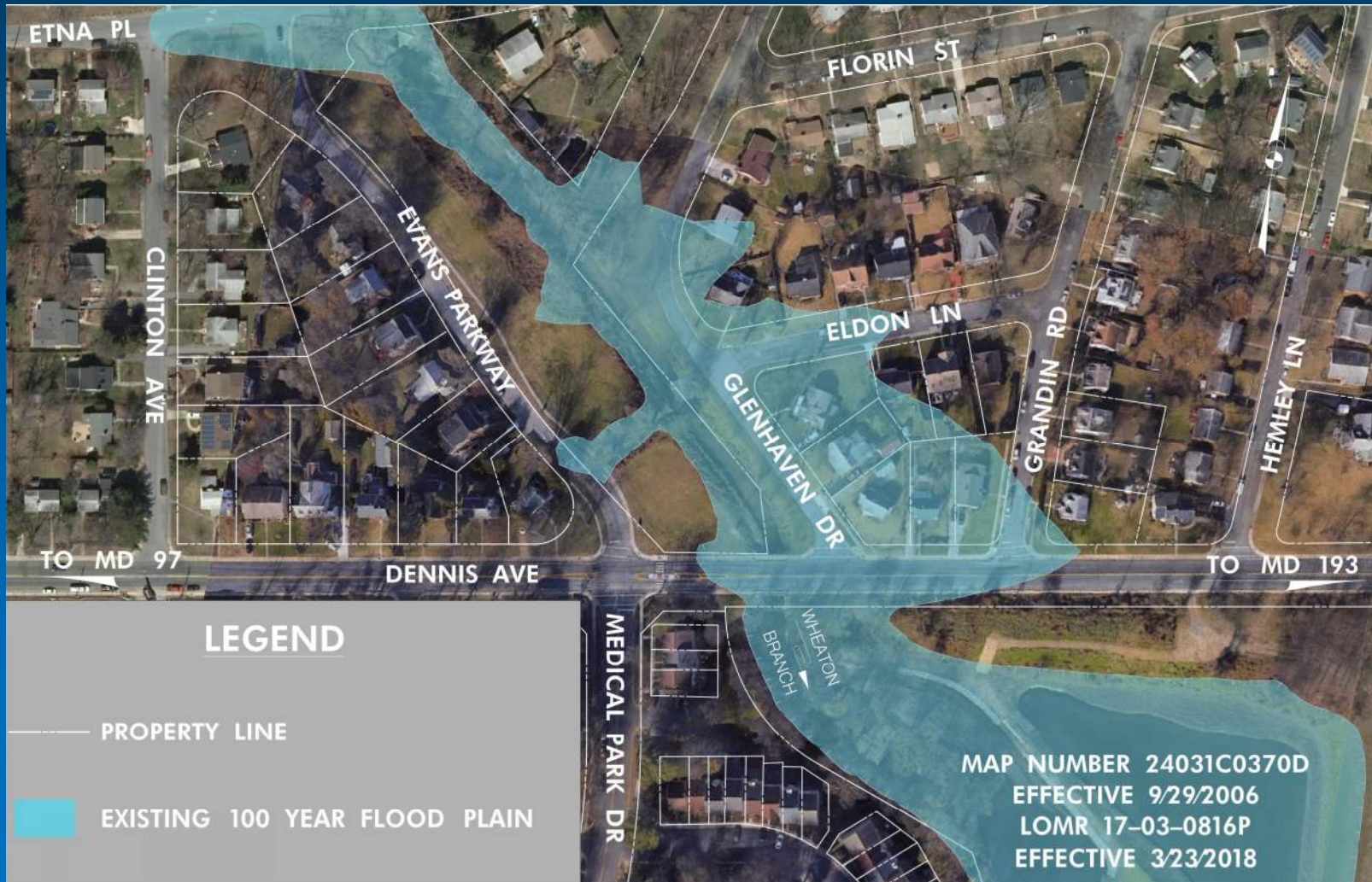


Purpose and Need





Existing Wheaton Branch Flood Plain



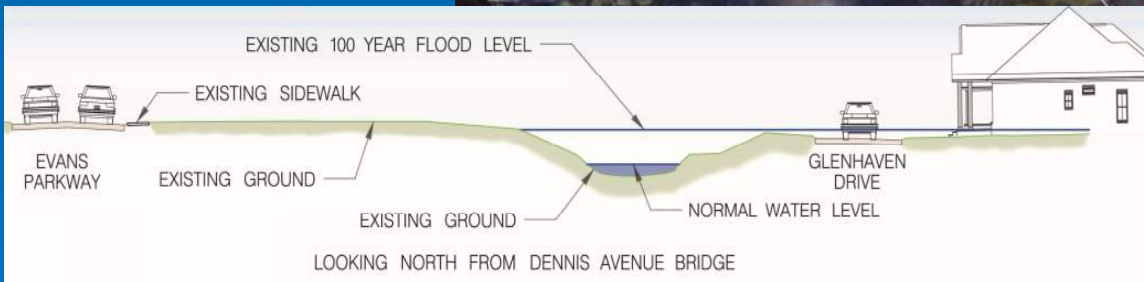
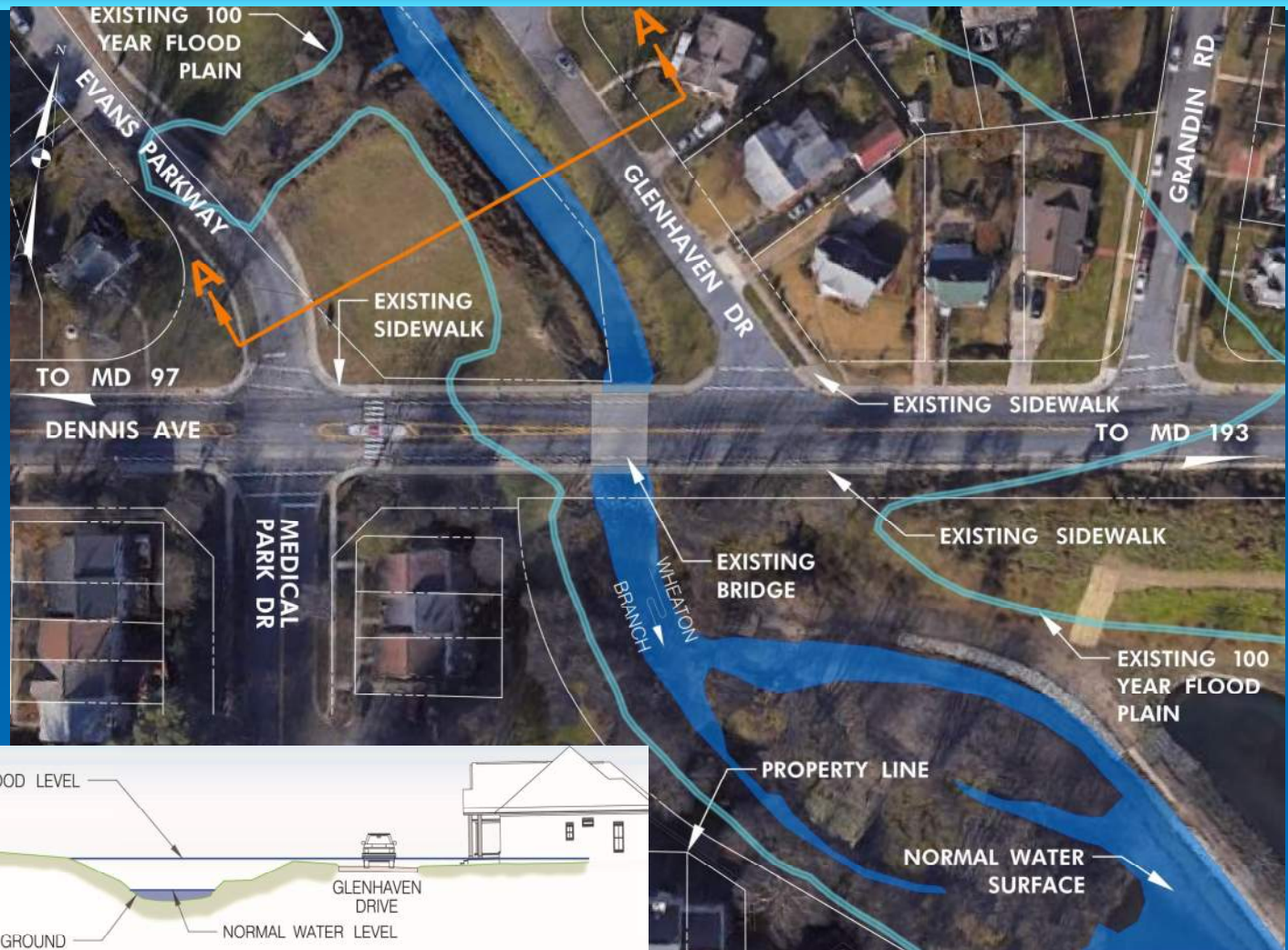


Proposed Wheaton Branch Flood Plain



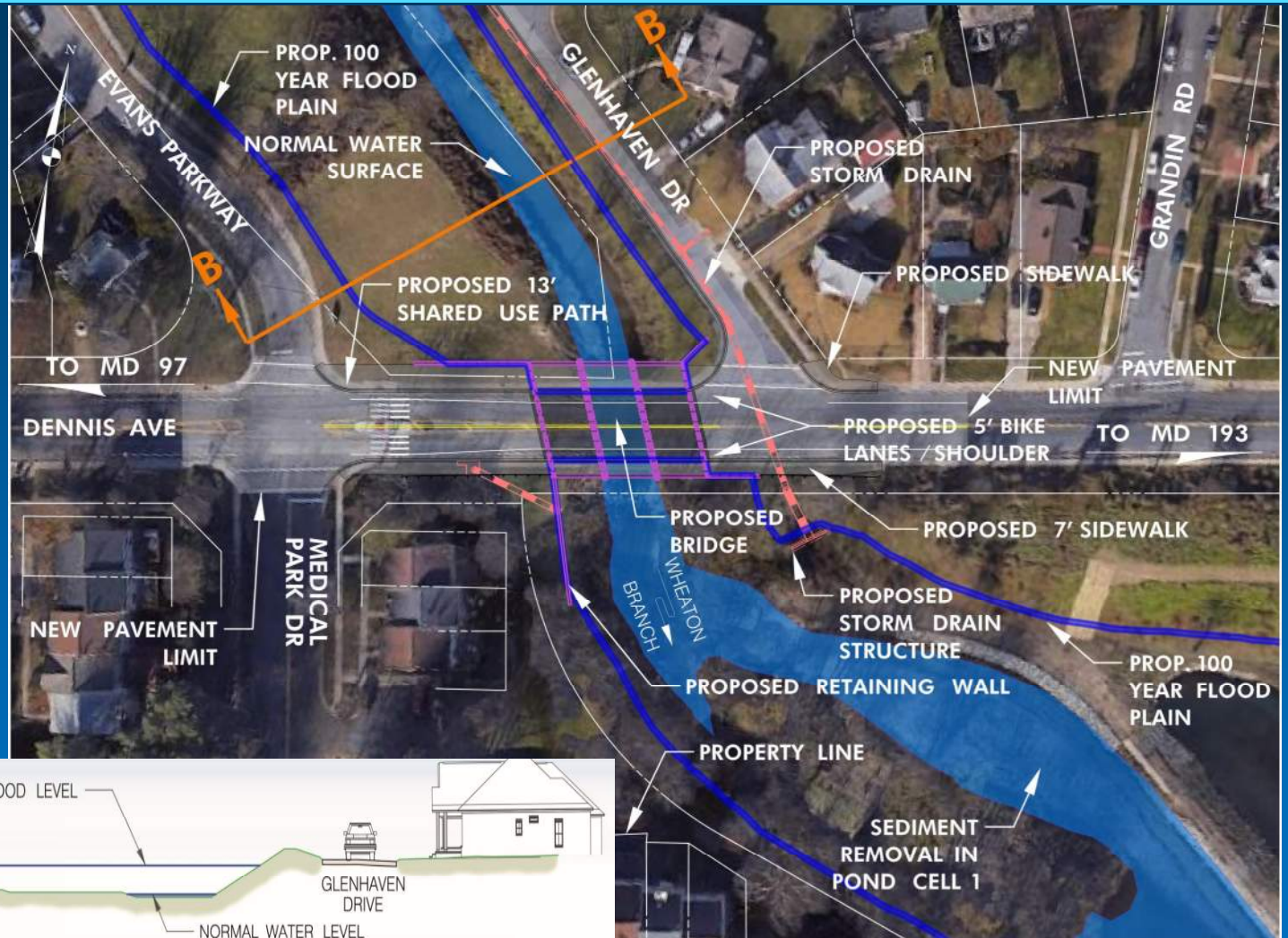


Existing Dennis Avenue and Wheaton Branch

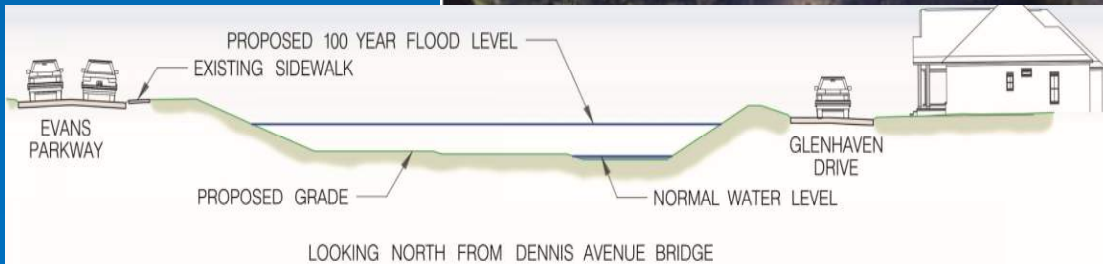




Proposed Dennis Avenue and Wheaton Branch



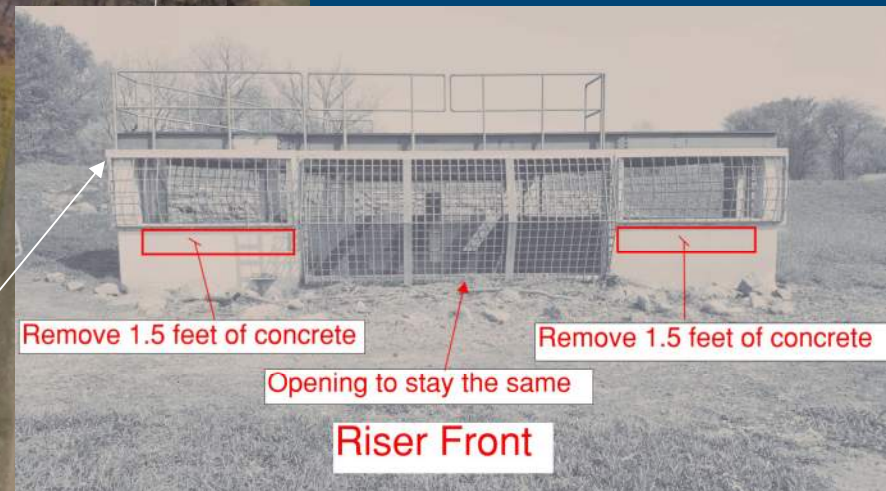
Section B-B



LOOKING NORTH FROM DENNIS AVENUE BRIDGE



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)

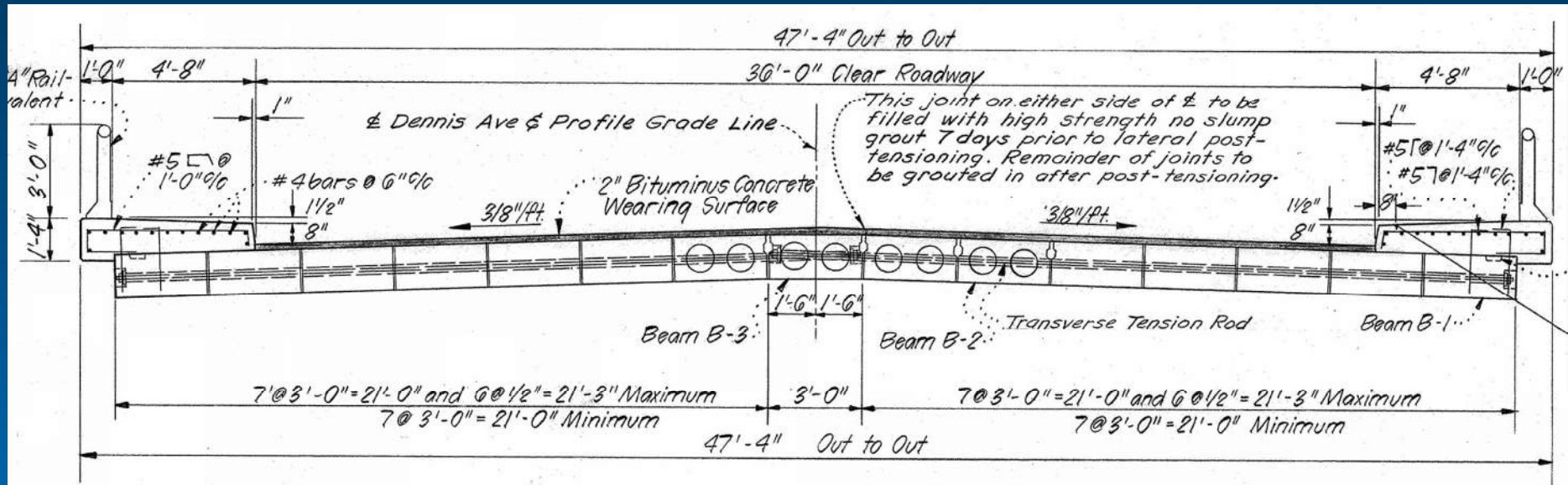


South elevation
(looking upstream)

- 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



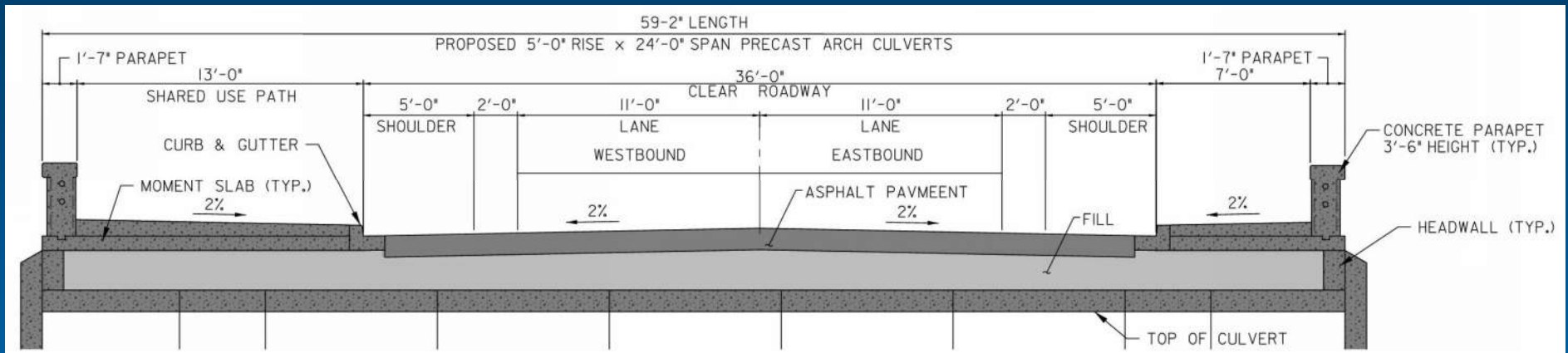
Existing Bridge – Typical Section



- 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"



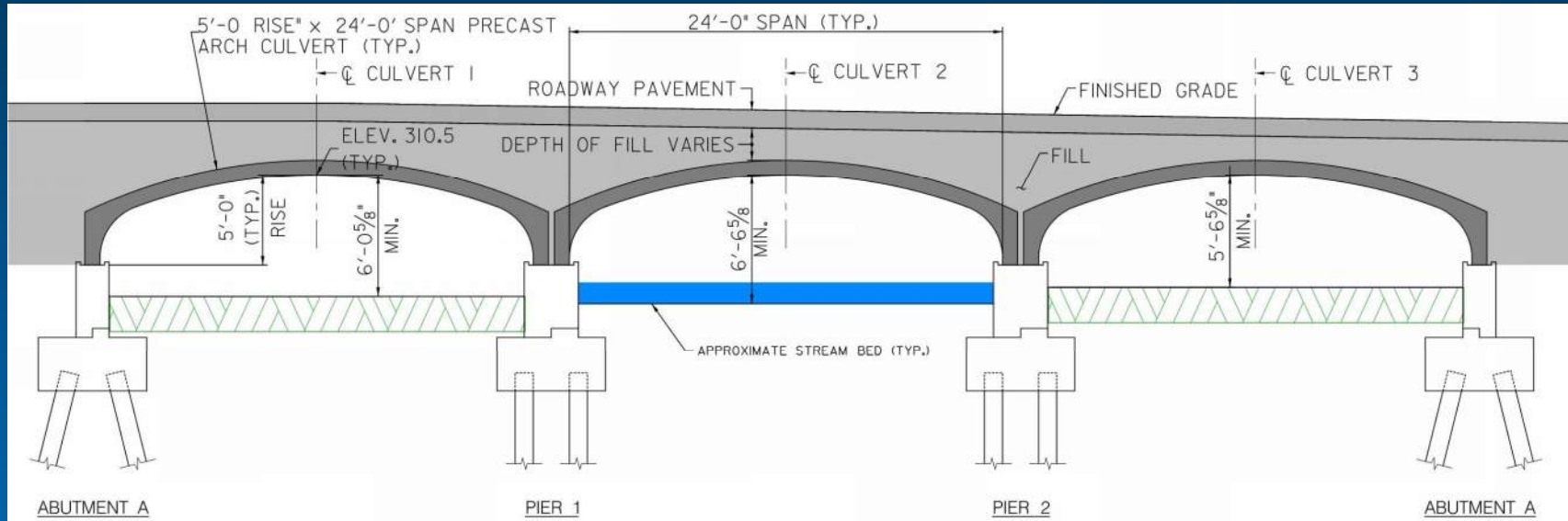
Proposed Bridge – Typical Section



- 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"



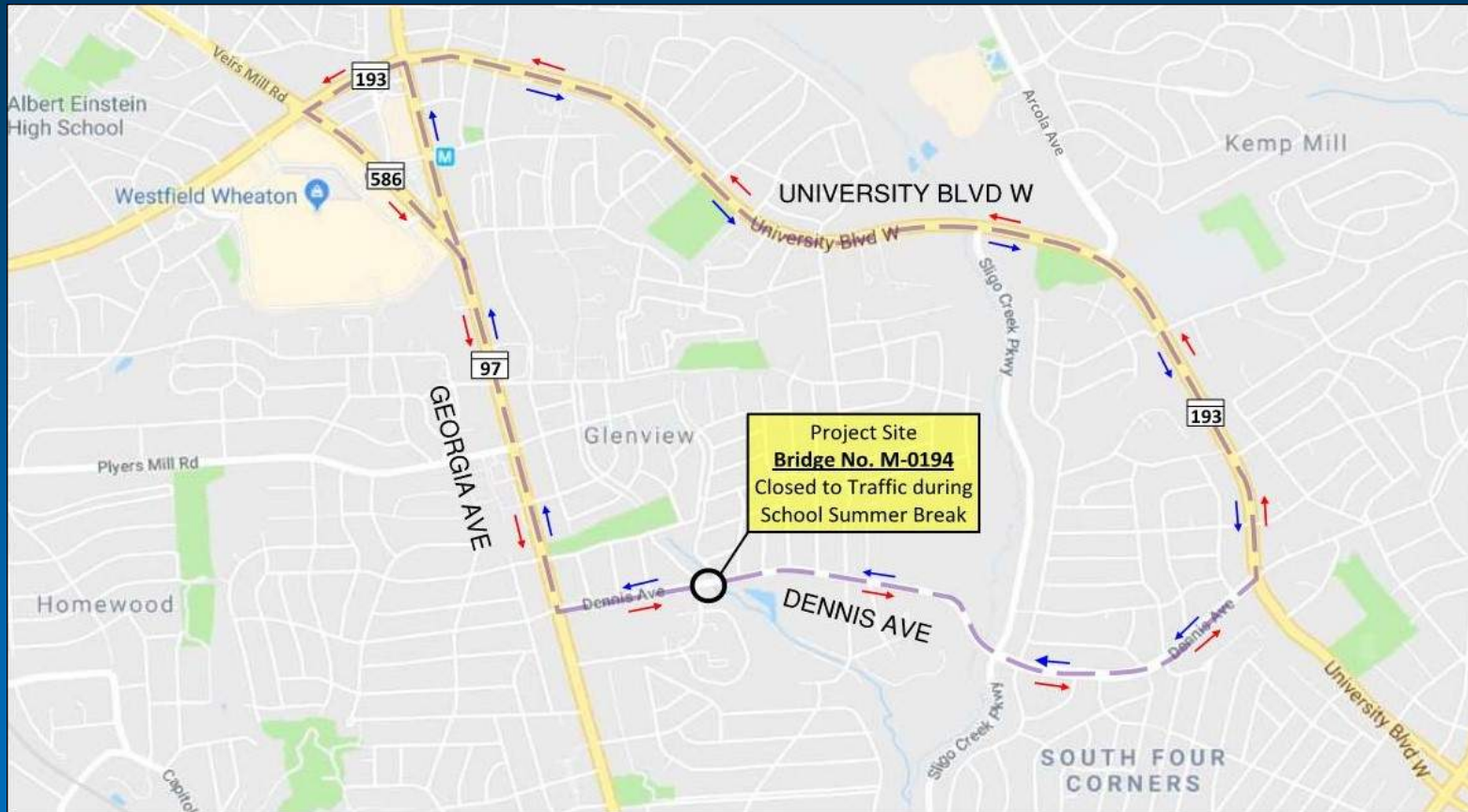
Proposed Bridge – Elevation (Upstream)



- 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

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



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

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

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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