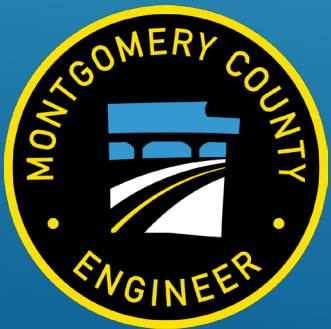




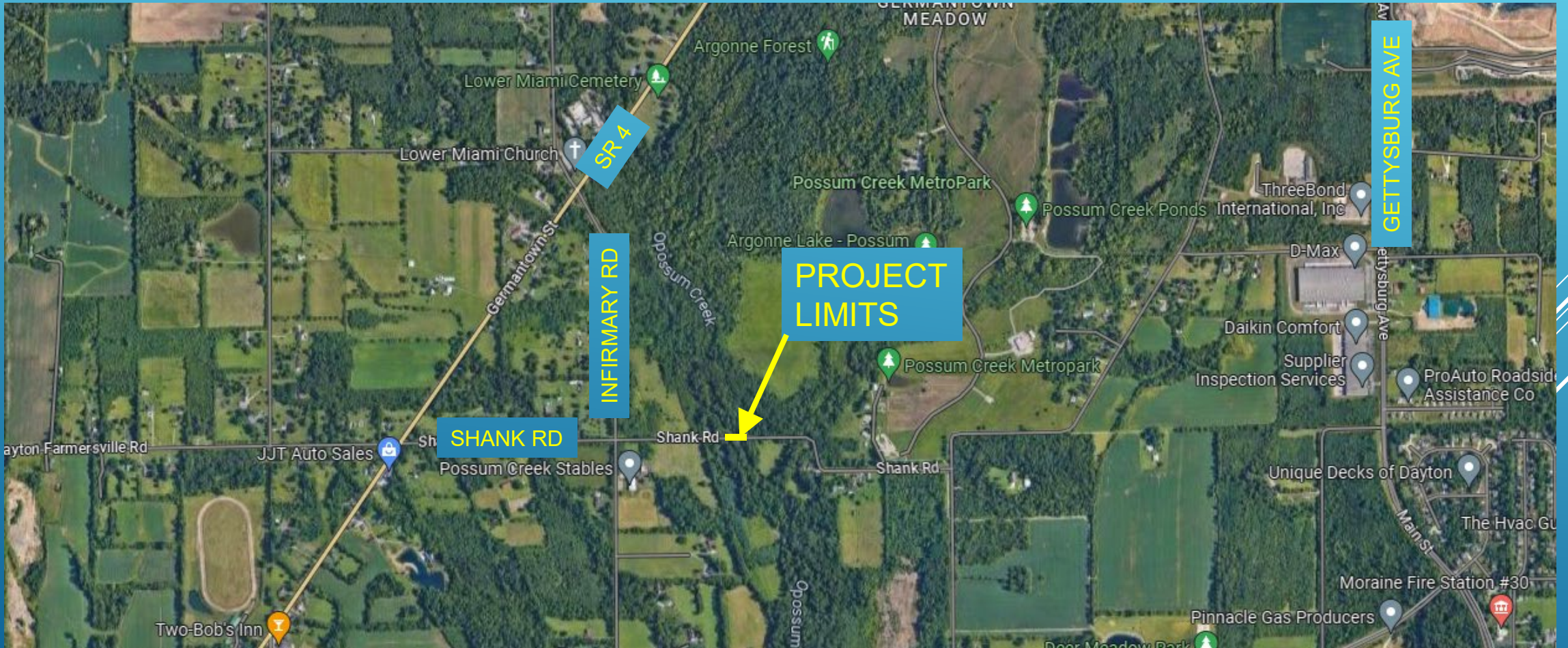
**MONTGOMERY  
COUNTY  
ENGINEER**

# MOT-SHANK ROAD BRIDGE REPLACEMENT PROJECT, PID #113925



Job #2020-23

# GENERAL AERIAL VIEW





# AERIAL VIEW





# EXISTING STRUCTURE DETAILS

- Date Built: 1964 (no prior rehab)
- Intersecting Feature: Opossum Creek
- Superstructure Type: 3-Span Continuous Concrete Slab
- Span Length: 119 feet (three spans of 37,45,37)
- Structure Width: 28 feet (two lanes of traffic)

# PROJECT SCOPE

- Total Bridge Replacement
  - Rock channel protection improvement
  - Minimal roadway profile work
  - Guardrail replacement
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against a blue gradient background.



# EXISTING CONDITION



On the roadway looking west along the north side of Shank Road the bridge.



Bridge profile looking South.



# EXISTING CONDITION



The over-the-side deck drainage along both the North and South edges has deteriorated significantly. The outer edges have exposing rusted steel. This condition will be resolved with the proposed structure replacement.



# EXISTING CONDITION



Large areas of rusted/corroded steel piles with areas of section loss in the two piers. Old piers will be removed, and new piers will be installed as part of the proposed project.



# EXISTING CONDITION



In 2019, High water flows washed away parts of the channel protection along the foundations. The County Engineer corrected this problem by adding Rock Channel Protection. These Emergency Repairs are shown in the center picture. Overall, the abutment walls and foundations are heavily damaged with several large cracks. The structure is rated in Poor Condition and will be removed and replaced as part of this project.



# EXISTING CONDITION



There is large amount of debris and overgrowth around the existing bridge piers. The existing bridge is not aligned properly with the natural channel bed.



Within the construction limits, debris will be cleared within reasonable bounds. Also, the proposed bridge will be installed/shifted to the east to align properly with Opossum Creek.



# ADJACENT PROPERTIES & RESPECTIVE OWNERS

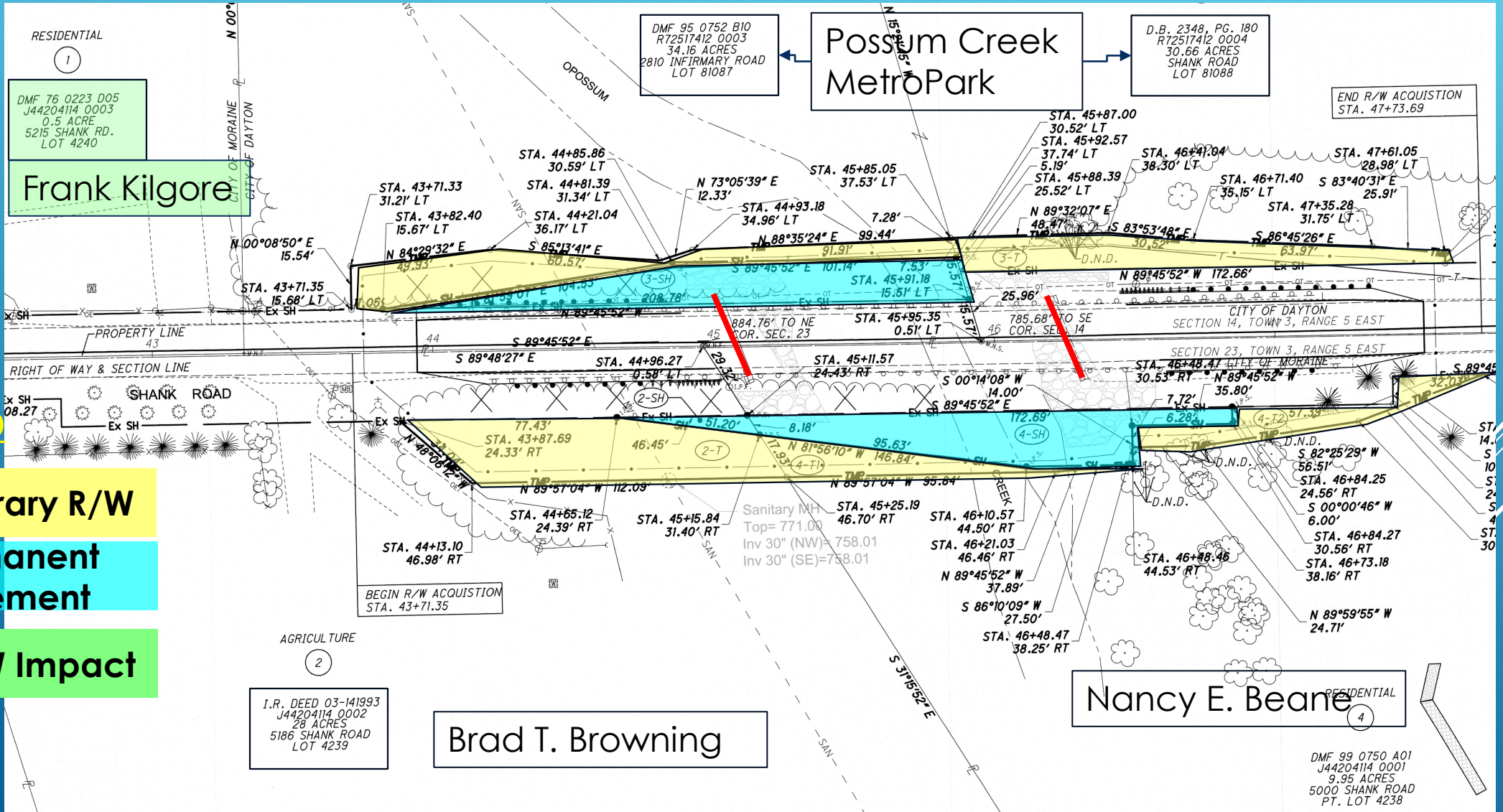


## LEGEND

Temporary R/W

Permanent Easement

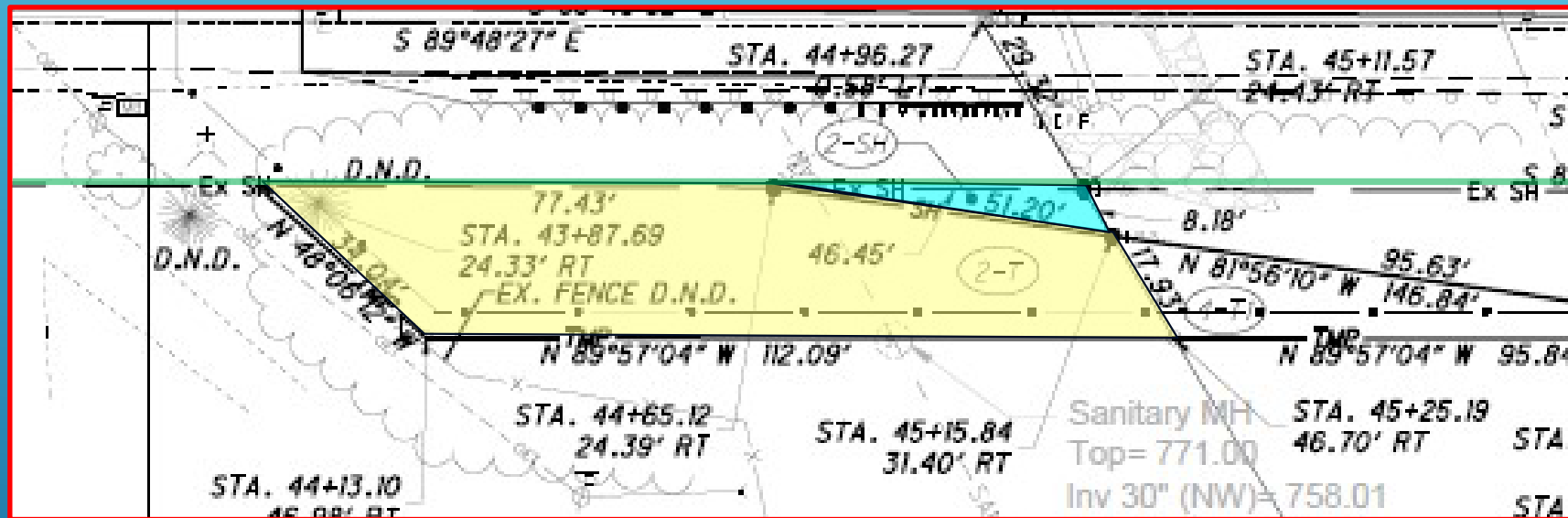
No R/W Impact





# TEMPORARY RW & PERMANENT EASEMENTS

## PARCEL #2 – J44-204114-0002 – BRAD T. BROWNING



An Acquisition of 0.057 acres of Temporary Easement and 0.004 acres of Permanent Easement from Parcel 2 on the south-west side of the road. The temporary is necessary for access to the bridge for construction. The Permanent easement is for future maintenance of the new bridge.

# TEMPORARY RW & PERMANENT EASEMENTS PARCEL #2 – J44-204114-0002 – BRAD T. BROWNING (SW CORNER)

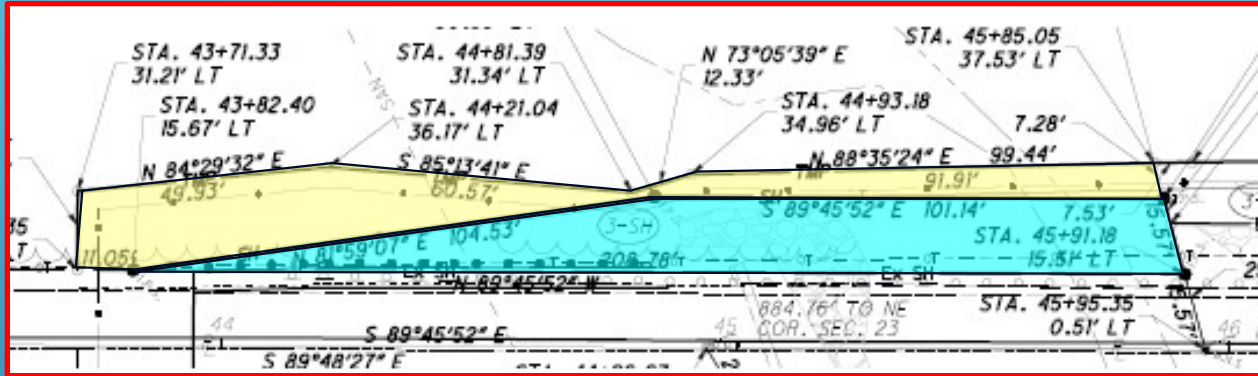


A lot of trees and shrubs are within five feet off edge of pavement. These trees must be removed for the contractor to have room to work. However, the special pine tree on the left is marked as saved, as this tree is out of the construction limits.

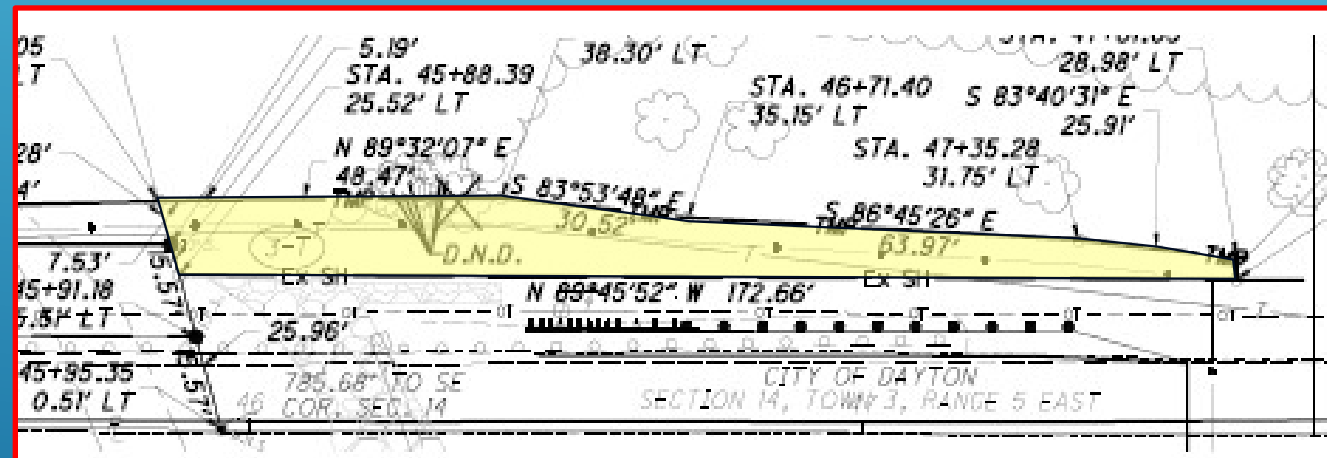


# TEMPORARY RW & PERMANENT EASEMENTS

PARCEL #3 – R72- 517412-0003/0004 – MONTGOMERY COUNTY PARK DIST.  
 NOW KNOWN AS FIVE RIVERS METROPARK (NW CORNER, LOT 3 NE CORNER, LOT 4)



Lot 3



Lot 4

A total Acquisition of 0.06 acres of Temporary RW and 0.053 acres of Permanent Easement from combined Parcel 3 on the north side of the road is necessary for access and maintenance of the bridge within the construction limits.



TEMPORARY RW & PERMANENT EASEMENTS  
PARCEL #3 – R72- 517412-0003/0004 – MONTGOMERY COUNTY PARK DIST.  
NOW KNOWN AS FIVE RIVERS METROPARK (NW CORNER, LOT 3 NE CORNER, LOT 4)



A lot of natural vegetation is within five feet off the edge of pavement. This vegetation must be removed to enable the contractor to have room to work.







# TEMPORARY RW & PERMANENT EASEMENTS

PARCEL #4 – J44- 204114-0001– NANCY E. BEANE (SE CORNER)



A lot of trees including a few special shrubs are within five feet off edge of pavement within the public road right of way. The trees shown here are within the road right of way and will be removed by our contractor to have room to work. This work includes roadside grading and railing, construction of the bridge, and channel work.



# PROJECT COSTS

Design:

Design by Consultant:  
American StructurePoint, Inc.

Right-of-Way:

TBD by real estate appraisal

Construction:

\$ 1,230,000.00 (current estimate)

The MCEO has submitted an application through the Ohio Public Works Commission and are awaiting determination of the application success. If approved, OPWC funding will be added to the approved federal grant amount of **\$981,772.90** to be applied to project costs.



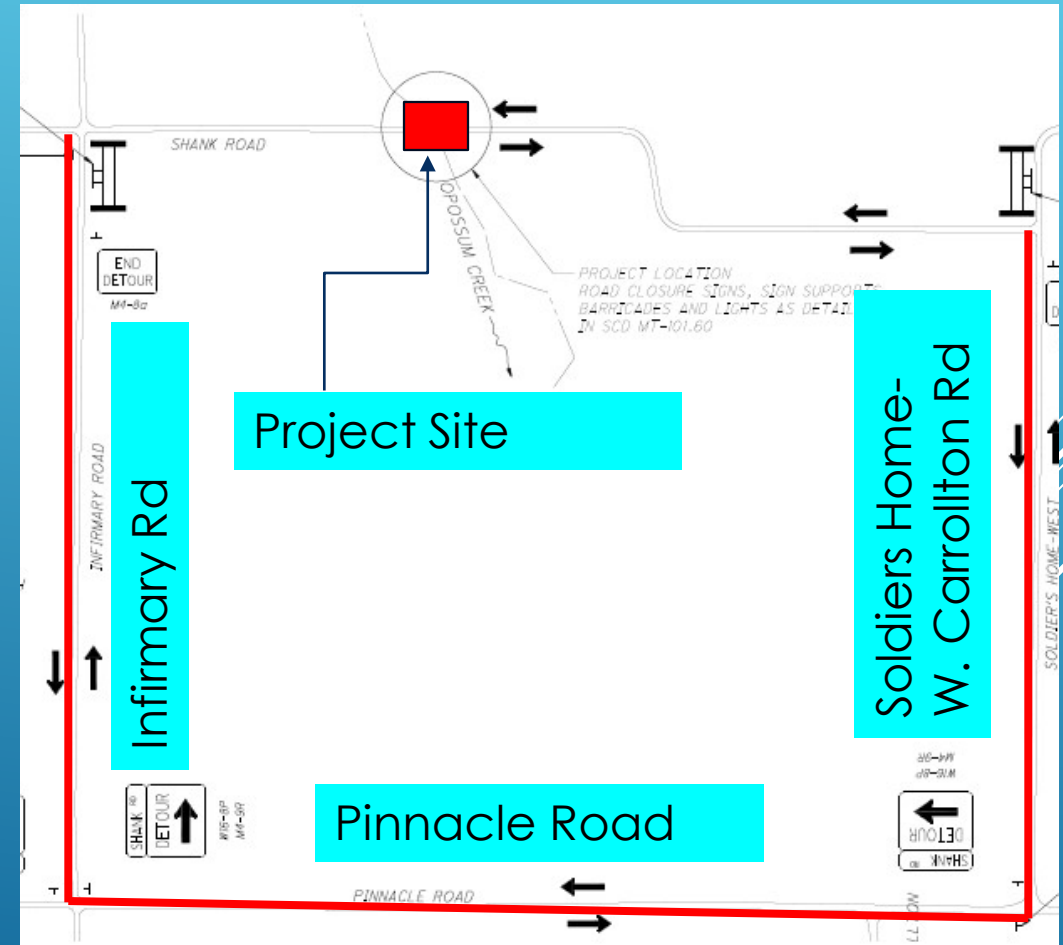




# MAINTENANCE OF TRAFFIC



- Road closure for 5 Months  
April 2025 - September 2025
- Notice sign will be in place 21 days in advance to closure
- The detour utilized is Infirmary Road, Pinnacle Road, and Soldiers Home-West Carrollton Road.





**MONTGOMERY  
COUNTY  
ENGINEER**