

WELCOME

**Route 4038 Layton Bridge
Replacement Project**

PUBLIC MEETING

**Thursday, April 20, 2023
5:00 PM - 6:30 PM**

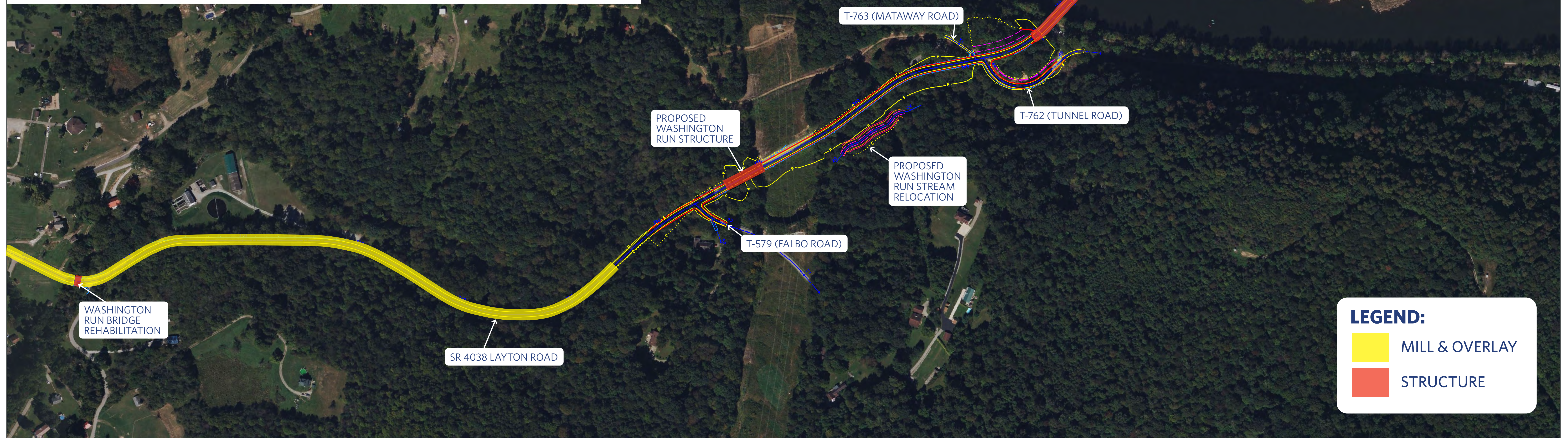
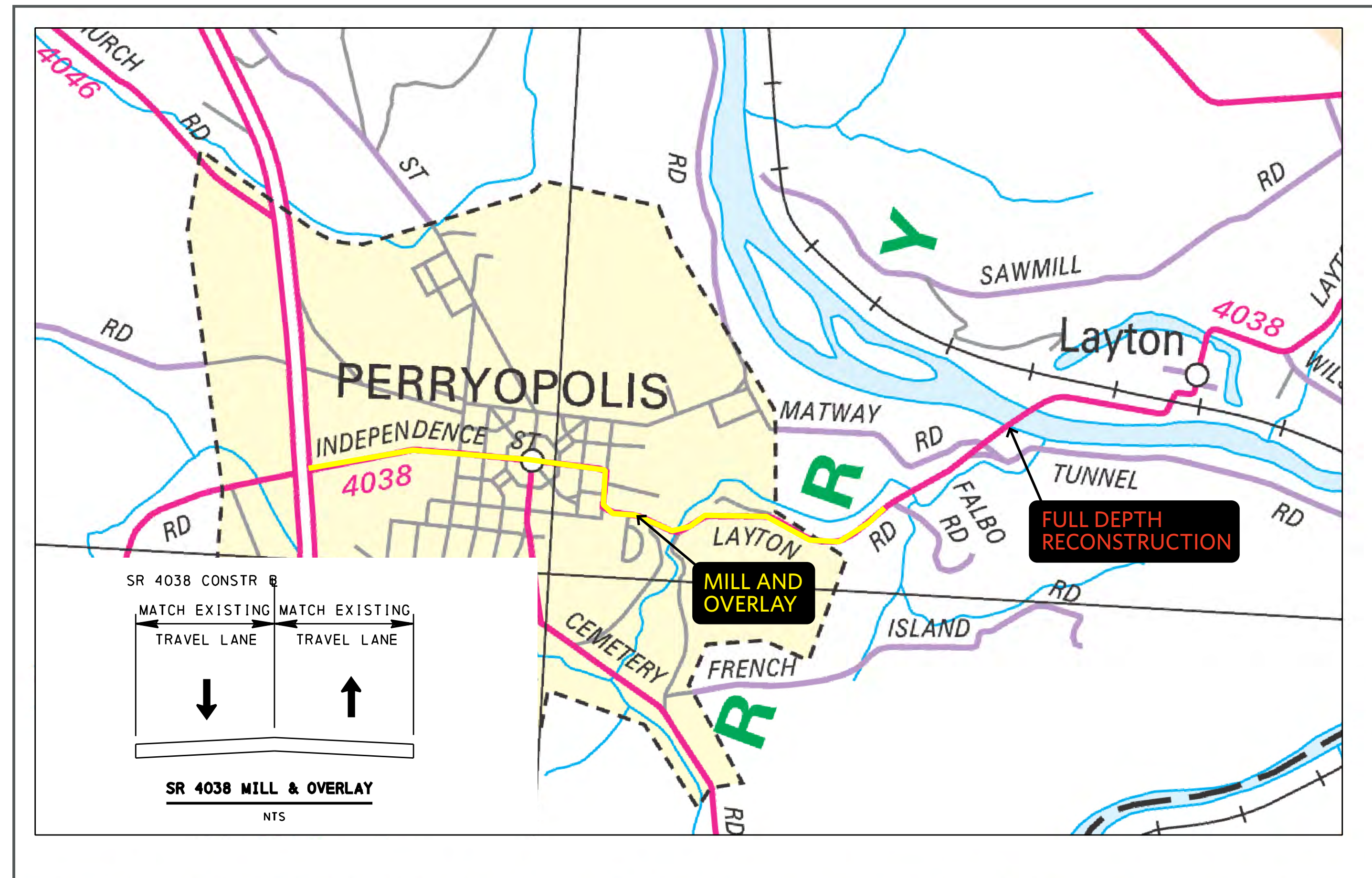
Layton Bridge Replacement Project

Route 4038, Section D10

Activity	Milestone
Alternatives Study/Section 106 Process	January 2017 to September 2022
Preliminary Engineering	Ongoing
Final Design Start	Spring 2023
Right-of-Way Acquisition	Early 2024
Project Bid Letting	Summer 2025
Utility Relocations	Fall 2025
Construction Start	Fall 2025 (Approximately 3 years)

Route 4038 Layton Bridge Replacement Project

OVERVIEW



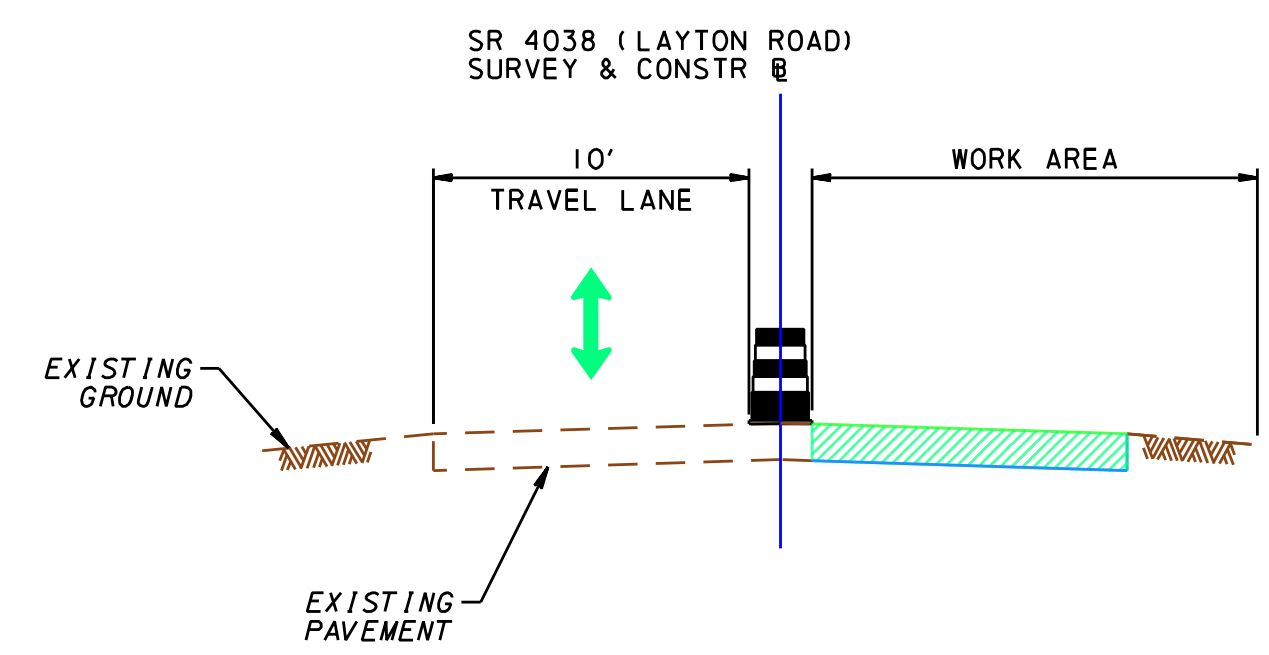
Scope of Work

- Rehabilitate the Washington Run Bridge at Strawn Road
- Replace the existing single lane bridge near Falbo Road with a new two-lane structure
- Construct a new two-lane off-alignment structure over Youghiohony River

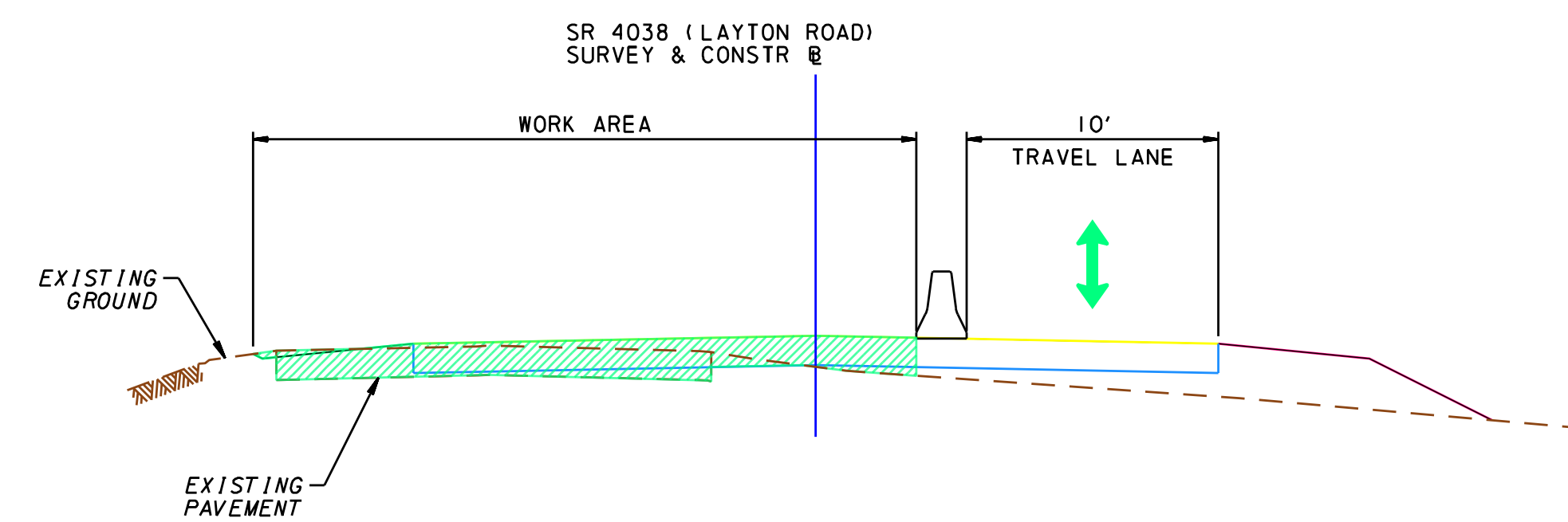
- Demolish the existing bridge over the Youghiohony River
- Close off and take the existing tunnel out of service
- Mill and Overlay from Route 51 to T-579 Falbo Road

Route 4038 Layton Bridge Replacement Project

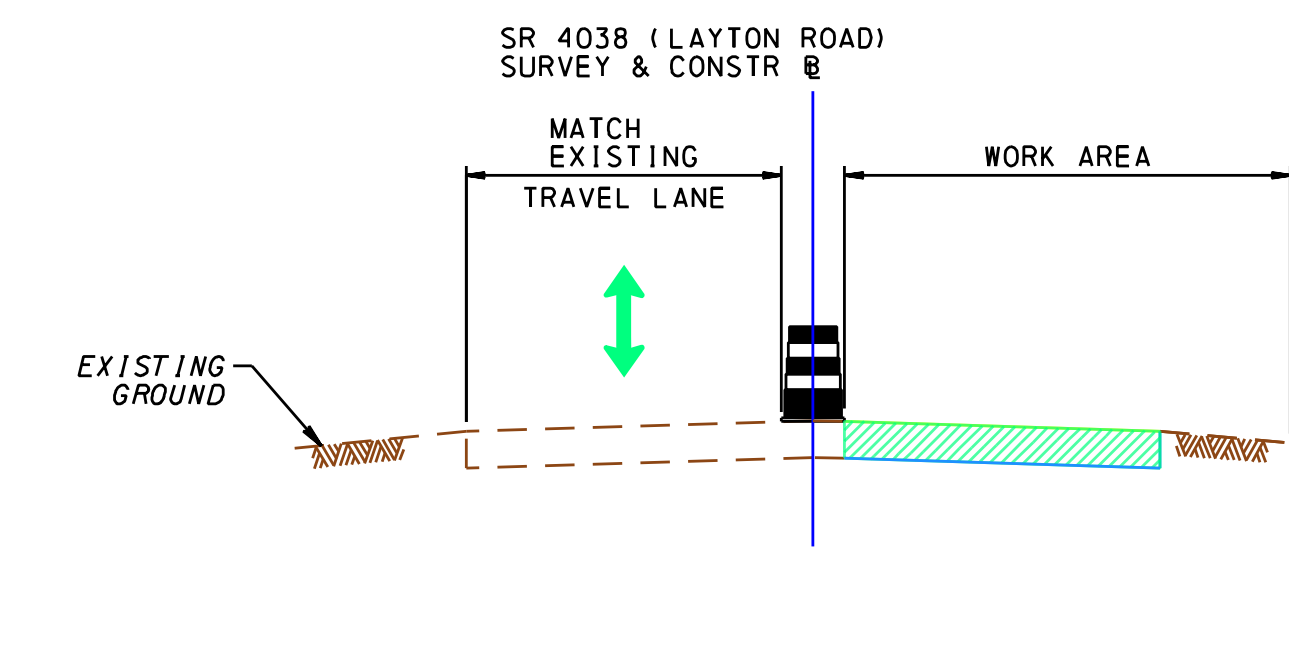
STAGED CONSTRUCTION TYPICAL SECTIONS



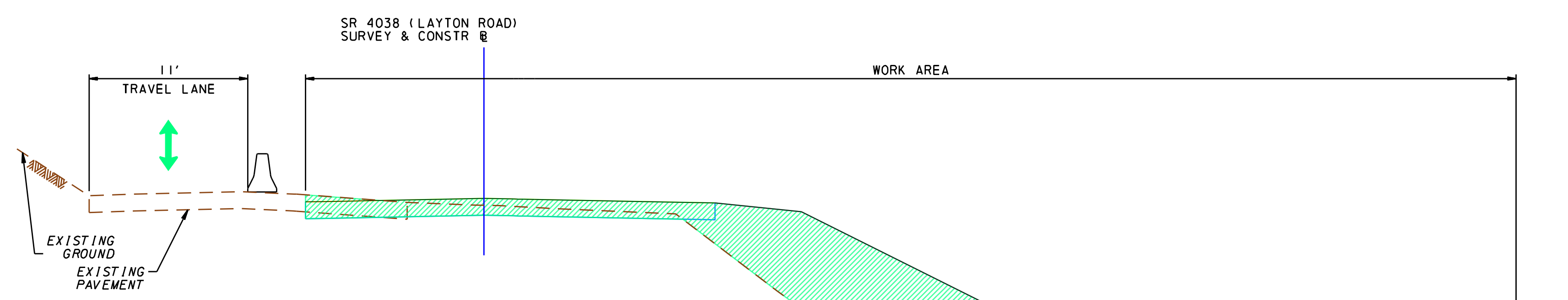
STAGE 1A - SR 4038 TYPICAL SECTION
NOT TO SCALE
WEST OF FALBO ROAD TO WASHINGTON RUN BRIDGE



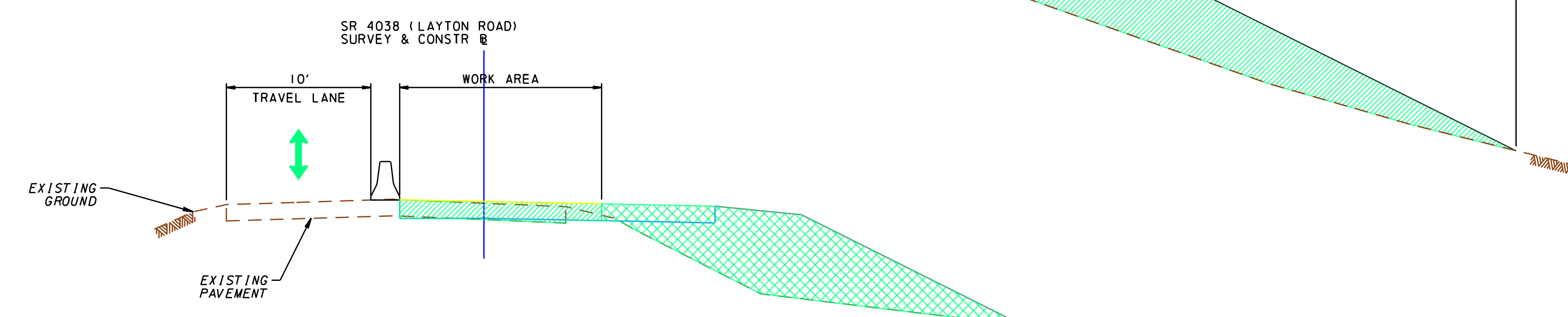
STAGE 2 - SR 4038 TYPICAL SECTION
NOT TO SCALE
FALBO ROAD TO HAZELBAKER



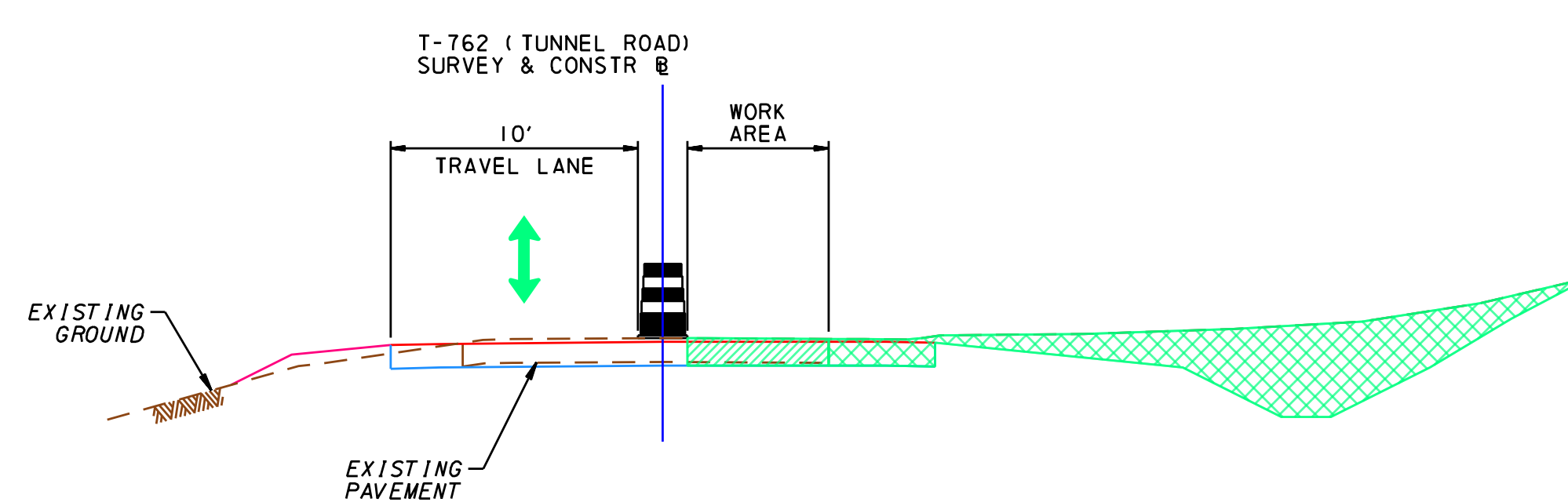
STAGE 3 - SR 4038 TYPICAL SECTION
NOT TO SCALE
SR 51 TO PERRYOPOLIS TRAFFIC CIRCLE
PERRYOPOLIS TRAFFIC CIRCLE TO LAYTON



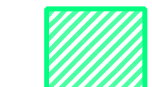




STAGE 1B - SR 4038 TYPICAL SECTION
NOT TO SCALE
WASHINGTON RUN BRIDGE TO YOUGHIOGHENY BRIDGE



STAGE 1C - SR 4038 TYPICAL SECTION
NOT TO SCALE
YOUGHIOGHENY BRIDGE TO LAYTON



STAGE 1D - T-762 (TUNNEL ROAD) TYPICAL SECTION
ALLEGHENY PASSAGE TRAIL TO PROPOSED SR 4038 LAYTON ROAD

- LEGEND:**
-  WORK AREA CURRENT STAGE
 -  WORK AREA PREVIOUS STAGE
 -  TRAFFIC FLOW ARROW
 -  CHANNELIZING DEVICE
 -  TEMPORARY BARRIER

Project construction stages:

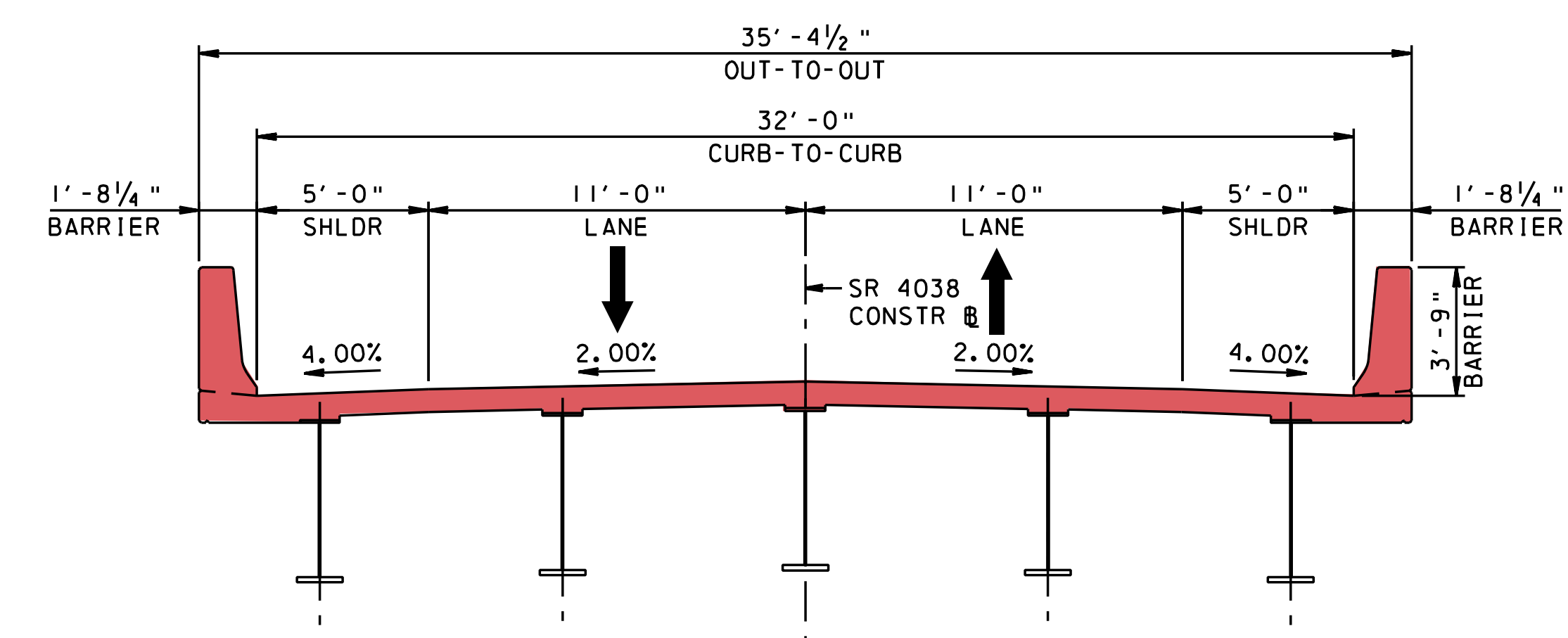
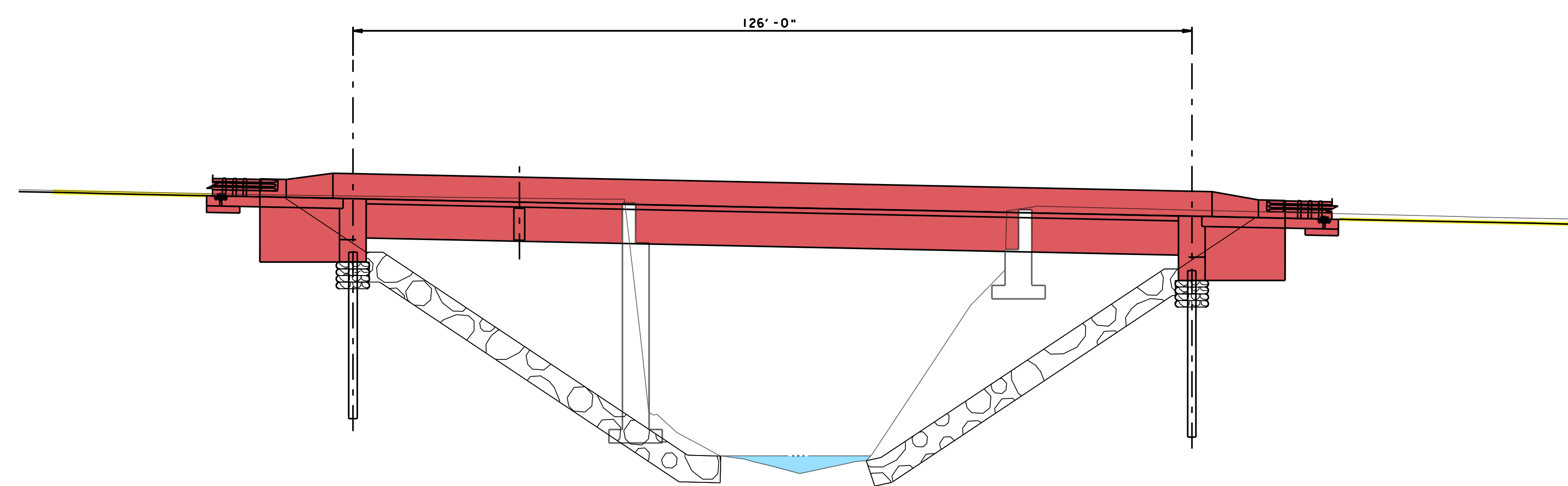
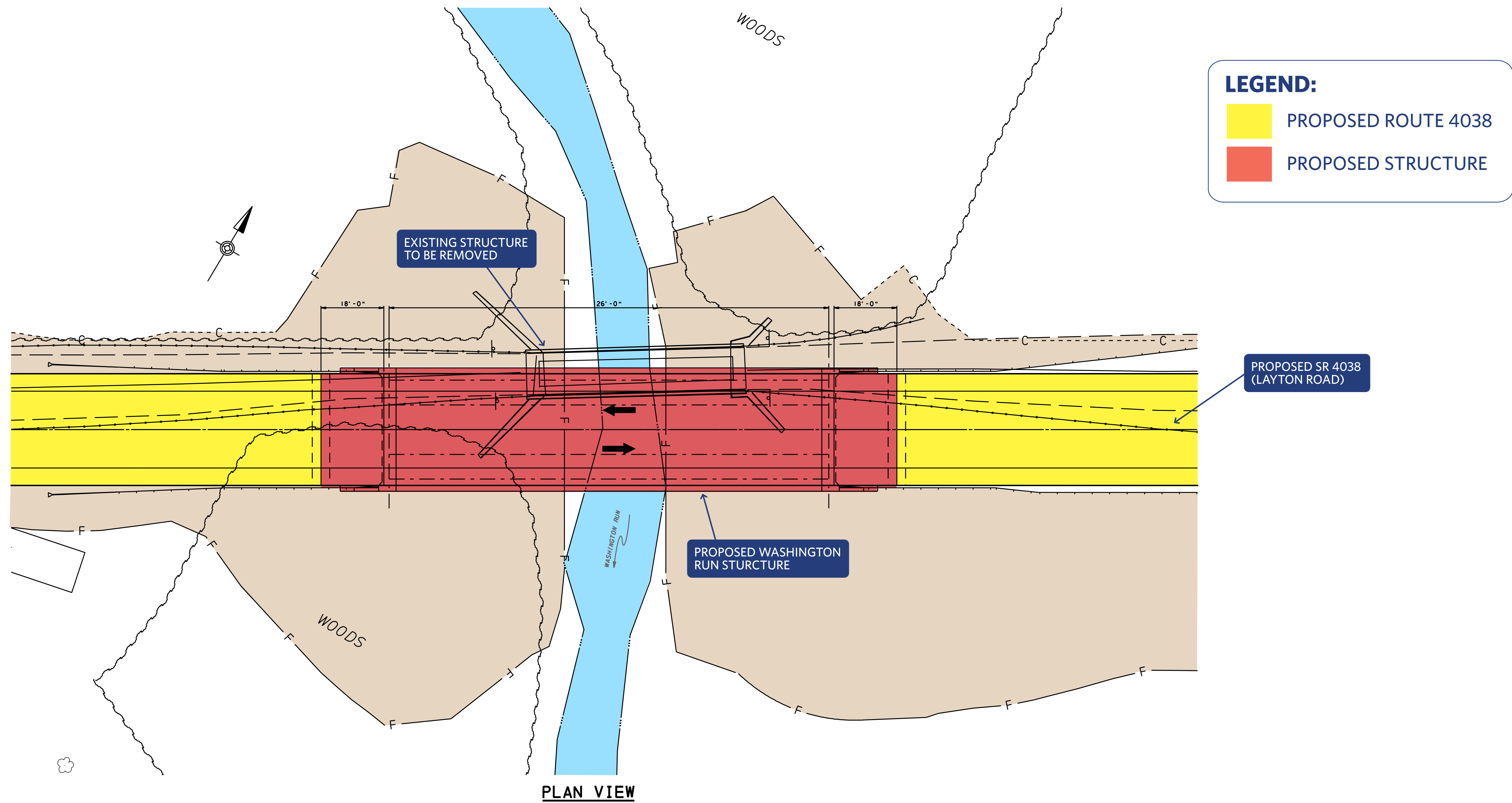
- Stage 1A:** Complete reconstruction of Route 4038 from west of Falbo Road to west approach of Washington Run Bridge and reconstruct Falbo Road.
- Stage 1B:** Construct downstream side of Washington Run Bridge. Complete proposed stream relocation of Washington Run. Construct cut over existing tunnel. Construct embankment and benching from Falbo Road to Tunnel Road.
- Stage 1C:** Complete reconstruction of Route 4038 from east of proposed Youghiogheny structure to existing Layton Road tie in.
- Stage 1D:** Construct Tunnel Road and Mataway Road.
- Stage 2:** Construct upstream side of Washington Run Bridge. Construct remaining portions of Route 4038. Remove existing Layton Bridge and existing Layton Road.
- Stage 3:** Complete pavement reconstruction at eastern project limit by Layton Bridge. Place final pavement course on all full depth areas. Complete mill and overlay from Route 51 to Falbo Road.
- Stage 4 (no typical shown):** Complete final signing and pavement markings.

Additional Notes:

- Staging is subject to modification by contractor.
- Temporary signals will be used for some phases to control alternating traffic.
- Short-term detours may be required.

Route 4038 Layton Bridge Replacement Project

WASHINGTON RUN STRUCTURE

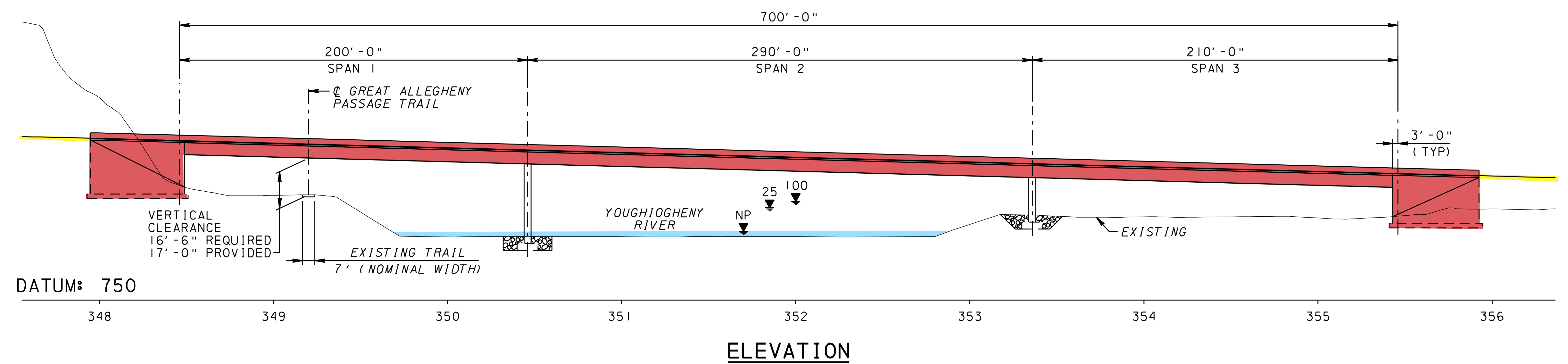
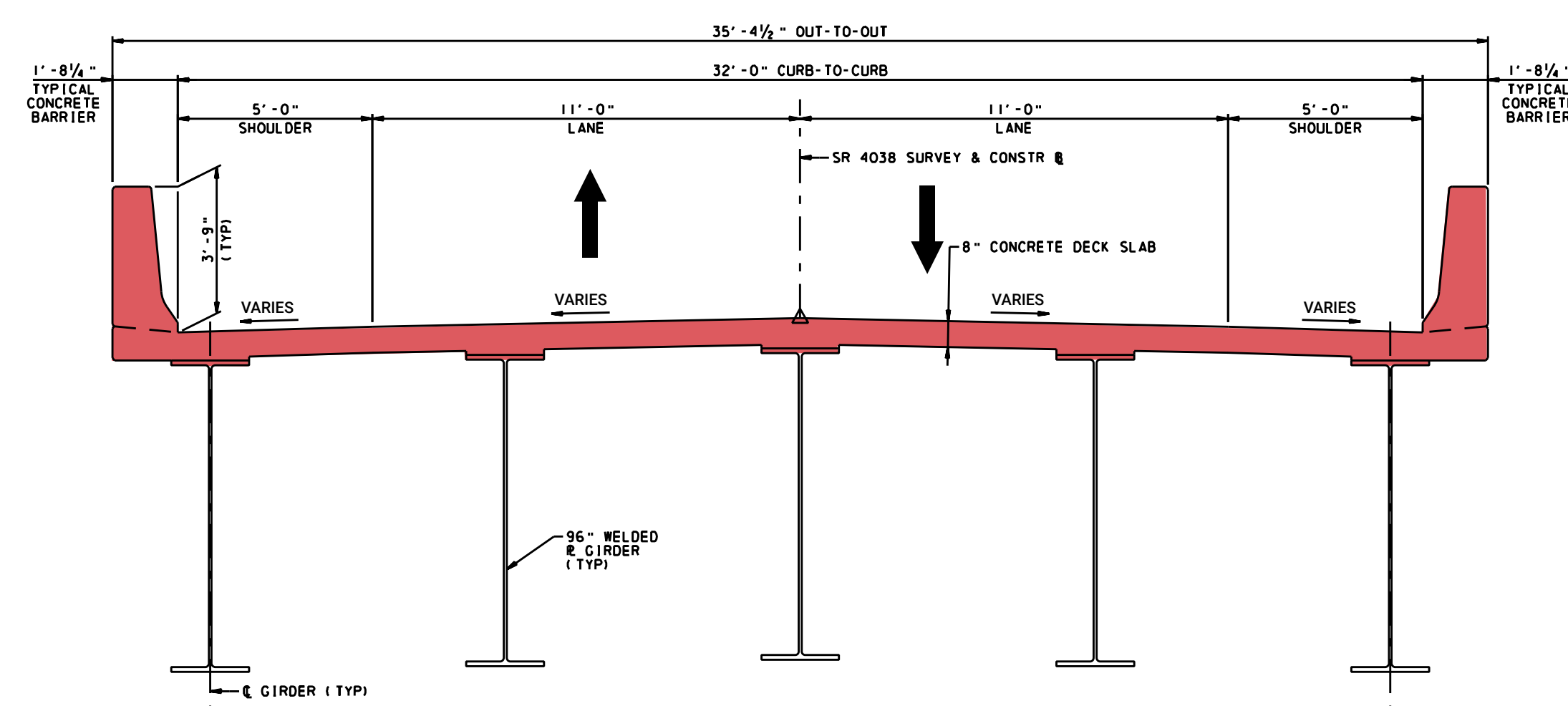
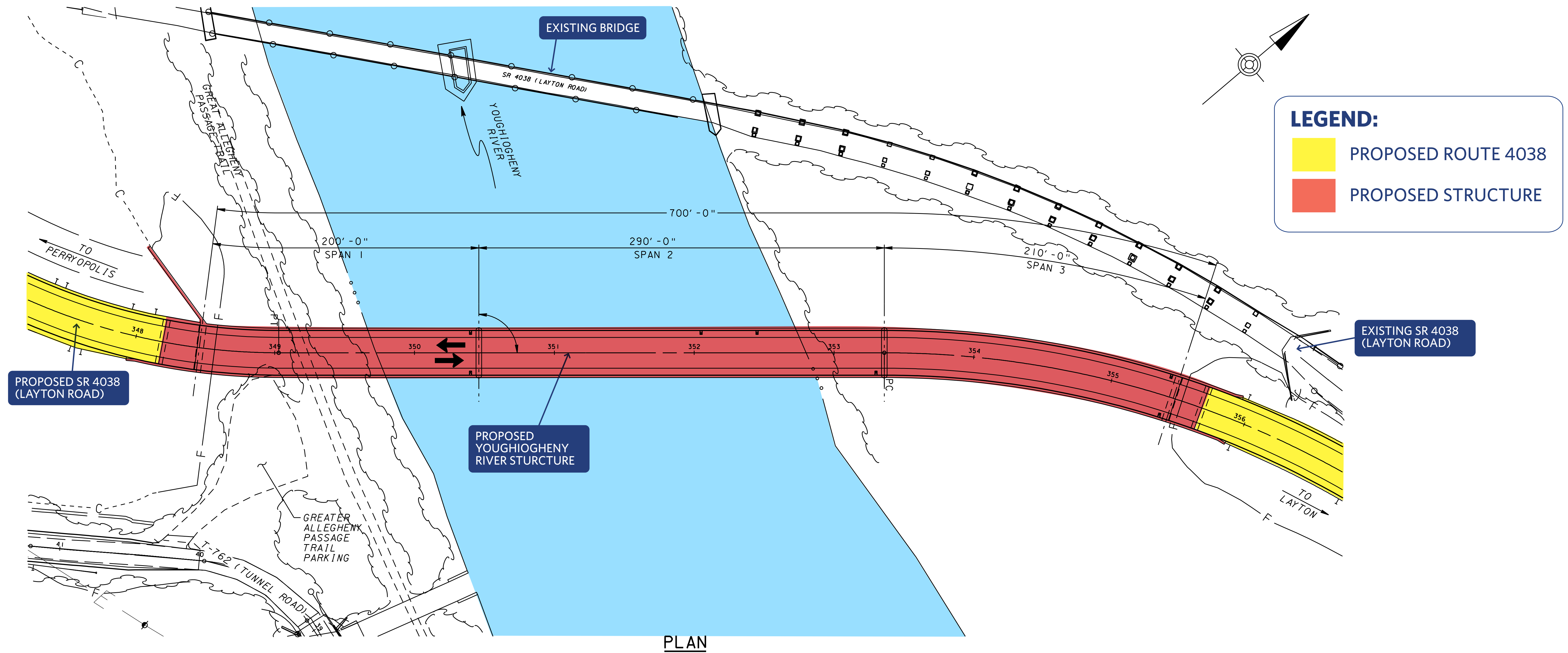


Additional Note:

New bridge will be built via staged construction maintaining one lane of traffic.

Route 4038 Layton Bridge Replacement Project

YOUGHIOGHENY RIVER STRUCTURE



Route 4038 Layton Bridge Replacement Project

CATEGORICAL EXCLUSION EVALUATION

Environmental Studies

The Pennsylvania Department of Transportation is currently preparing a Categorical Exclusion (CE) for the Route 4038 Layton Bridge over Youghiogheny River and Great Allegheny Passage Replacement Project. The CE evaluates socioeconomic, cultural, and natural resources within the study area and assesses the impact to these resources associated with the proposed project. Numerous studies are needed to determine resources within the study area, how they may be affected by the project, and to assess ways to avoid and minimize impacts, as well as developing mitigation for those impacts that do occur. Studies required for this project include:



Wetlands and Stream Delineation



Noise



Socioeconomic



Environmental Justice



Section 4(f)



Cultural Resources – Archaeology and Historic Properties



Threatened and Endangered Species

Section 4(f)

Section 4(f) of the U.S. Department of Transportation Act of 1966 requires transportation projects take into consideration public park and recreational lands, wildlife and waterfowl refuges, and publicly owned historic sites that are eligible for listing or listed on the National Register of Historic Places in transportation project development.

There are seven Section 4(f) resources within the project study area:

- Layton Bridge and Tunnel (Bridge Programmatic)
- B&O Railroad (No Use)
- Pittsburgh and Lake Erie Railroad (No Use)
- Great Allegheny Passage (GAP) Trail (Deminimis)
- Project 70 Lands (Temporary Occupancy)
- Project 500 Lands (Deminimis)
- Youghiogheny River Trail (Temporary Occupancy)

Impacts to Section 4(f)

Impacts to these resources will be minor and will not change the use of the resource, except for Layton Bridge. Coordination with the Officials with Jurisdiction is ongoing to determine required mitigation.

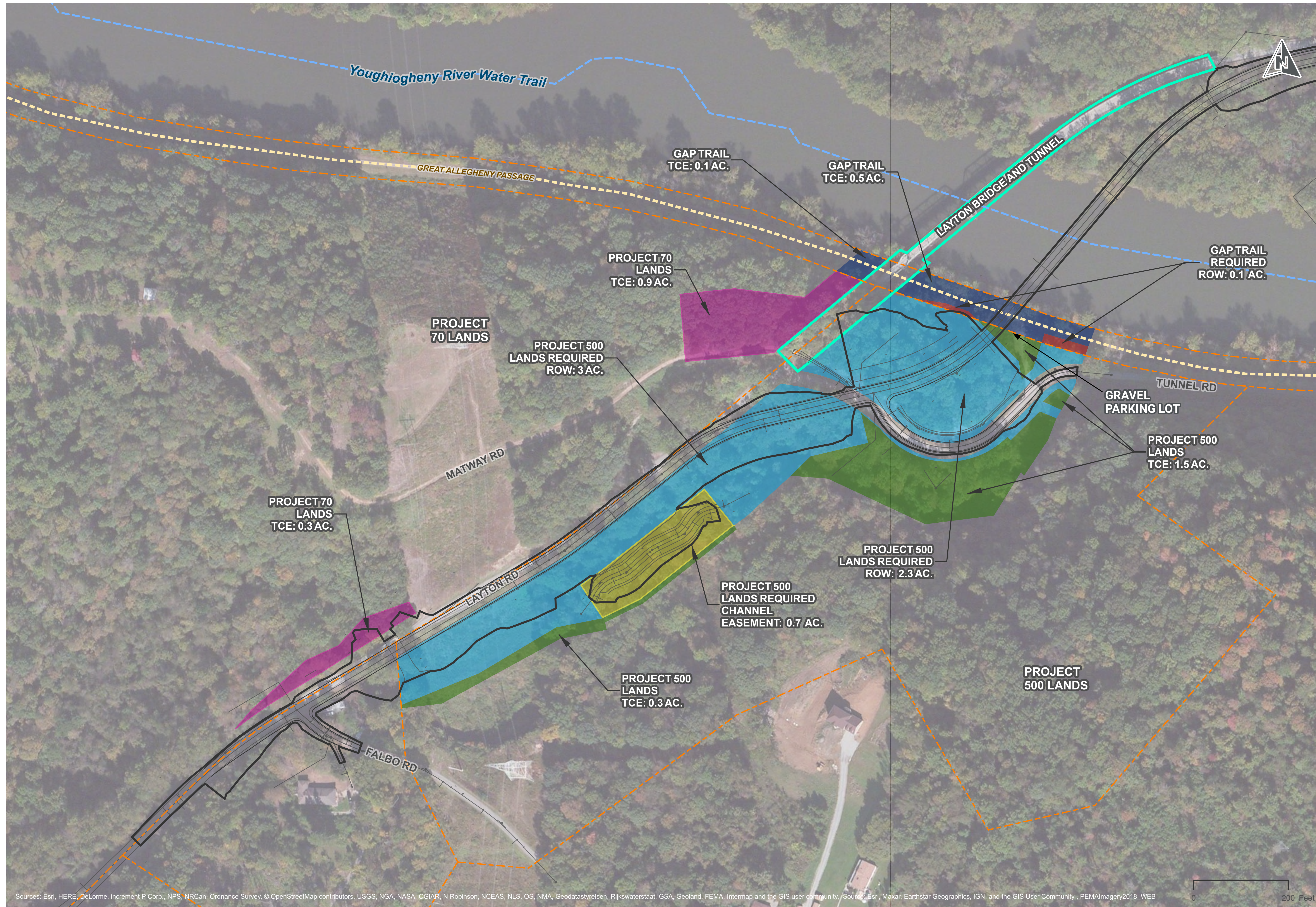
NEPA Process Overview

- Community and Consulting Party Involvement
- Establish Purpose and Need for the Project
- Historic Bridge Rehabilitation Analysis – evaluate feasibility of rehabilitation in meeting the Purpose and Need
- Alternatives Analysis and Evaluation – assess prudence of selected rehabilitation option versus other alternatives (replacement)
- Preferred Alternative Identification
- Mitigation Options

A Letter of Agreement with Federal Highway Administration, Pennsylvania State Historic Preservation Office, and PennDOT signed August 2022 agreeing with mitigation of adverse effects created by replacement of the Layton Bridge.

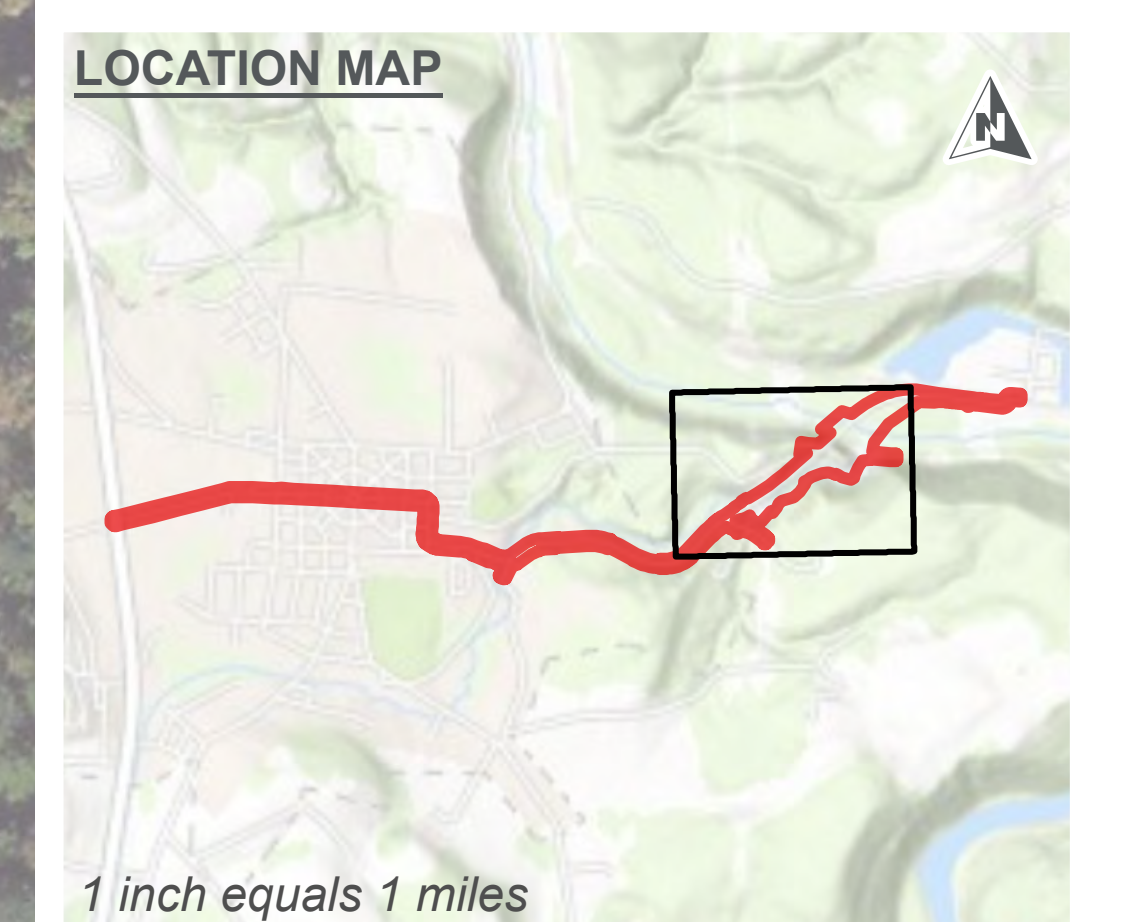
Route 4038 Layton Bridge Replacement Project

CATEGORICAL EXCLUSION EVALUATION



- LEGEND**
- YOUGHIOGHENY RIVER WATER TRAIL
 - GREAT ALLEGHENY PASSAGE TRAIL
 - PROPERTY LINE
 - DESIGN LINEWORK
 - PROPOSED ROAD SHOULDER EDGE
 - LAYTON BRIDGE AND TUNNEL
 - LIMITS OF DISTURBANCE (LOD)
- SECTION 4(f) IMPACTS**
- PROJECT 70 TEMPORARY CONSTRUCTION EASEMENT
 - PROJECT 500 TEMPORARY CONSTRUCTION EASEMENT
 - PROJECT 500 REQUIRED ROW
 - PROJECT 500 REQUIRED CHANNEL EASEMENT
 - GAP TRAIL TEMPORARY CONSTRUCTION EASEMENT
 - GAP TRAIL REQUIRED ROW

NAME	Acres
GAP TRAIL REQUIRED ROW	0.1
GAP TRAIL TEMPORARY CONSTRUCTION EASEMENT	0.6
PROJECT 500 REQUIRED CHANNEL EASEMENT	0.7
PROJECT 500 REQUIRED ROW	5.3
PROJECT 500 TEMPORARY CONSTRUCTION EASEMENT	1.8
PROJECT 70 TEMPORARY CONSTRUCTION EASEMENT	1.2



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Route 4038 Layton Bridge Replacement Project

PROJECT PURPOSE AND NEED



Project Description

The Layton Bridge Replacement Project includes preliminary engineering and final design for the proposed bridge replacement of the existing Route 4038 (Layton Road) 17-Span Pin-Connected Pratt Truss Structure over the Youghiogheny River in Fayette County, Pennsylvania. The new bridge will be constructed south (upstream) of the existing bridge. The project also includes a second bridge replacement on Route 4038 over Washington Run near T-579 Falbo Road and roadway improvements along Route 4038, including Full Depth Pavement Widening and Mill and Overlay throughout the length of the transportation corridor in this area.

Project Purpose

The purpose of this project is to provide a transportation solution that addresses the identified deficiencies of Route 4038, Layton Road, including the bridge over Washington Run, roadway, tunnel, and the Layton Bridge over the Great Allegheny Passage (GAP) Trail and the Youghiogheny River. Potential transportation solutions will also consider the bridge's historic significance as a structure listed on the National Register of Historic Places.

Project Need

The need for this project has been developed based on the identified deficiencies of the Layton Road facility, including the bridge over Washington Run, the tunnel, and the Layton Bridge over the GAP Trail and the Youghiogheny River. The need is identified in terms of:

- Substandard bridge width to accommodate two lanes of traffic
- Poor bridge condition related to the fracture critical bridge design with advanced corrosion, rust packing, fatigue prone details with advanced corrosion, and poor steel properties
- Limited redundancy as an essential river crossing due to substandard live load capacity to accommodate a full range of traffic for the essential service vehicles required to use the bridge
- Lack of barriers to protect fracture critical bridge elements from vehicular impact and to prevent errant vehicles from going off the bridge
- Lack of pedestrian and bicycle accommodations

Additional Project Details

- Relocated Route 4038 will take existing single-lane tunnel and bridge out of service
- New bridge constructed to meet current design standards consisting of two 11' lanes with 5' shoulders for total curb-to-curb width of 32'
- New alignment south of existing crossing will be constructed while existing Layton Bridge remains functional, providing uninterrupted access between Layton and Perryopolis during construction
- Existing single-lane Washington Run bridge near T-579 Falbo Road will be replaced with new two-lane bridge, providing two-lane facility for full length of transportation corridor
- Mill and Overlay of Route 4038 proposed to repair potential damage to roadway that may occur during movement of materials and equipment during construction of bridge replacements along existing Route 4038
- Mill and Overlay will consist of shallow excavations within PennDOT existing Right-of-Way to repair any damage to existing pavement after bridge construction completed
- At the end of proposed Mill and Overlay just west of T-579 Falbo Road, Route 4038 will transition to new offline horizontal and vertical alignment shifted south of the existing alignment
- New offline portion of Route 4038 will consist of full depth pavement and shoulders
- Full depth reconstruction will extend to new Layton Bridge structure, continuing on east side of bridge where new alignment will tie into existing Route 4038 and terminate just prior to at-grade railroad crossing east of Hazelbaker's commercial property
- To improve safety along corridor, guard rail and updated signage will be installed within project limits

