

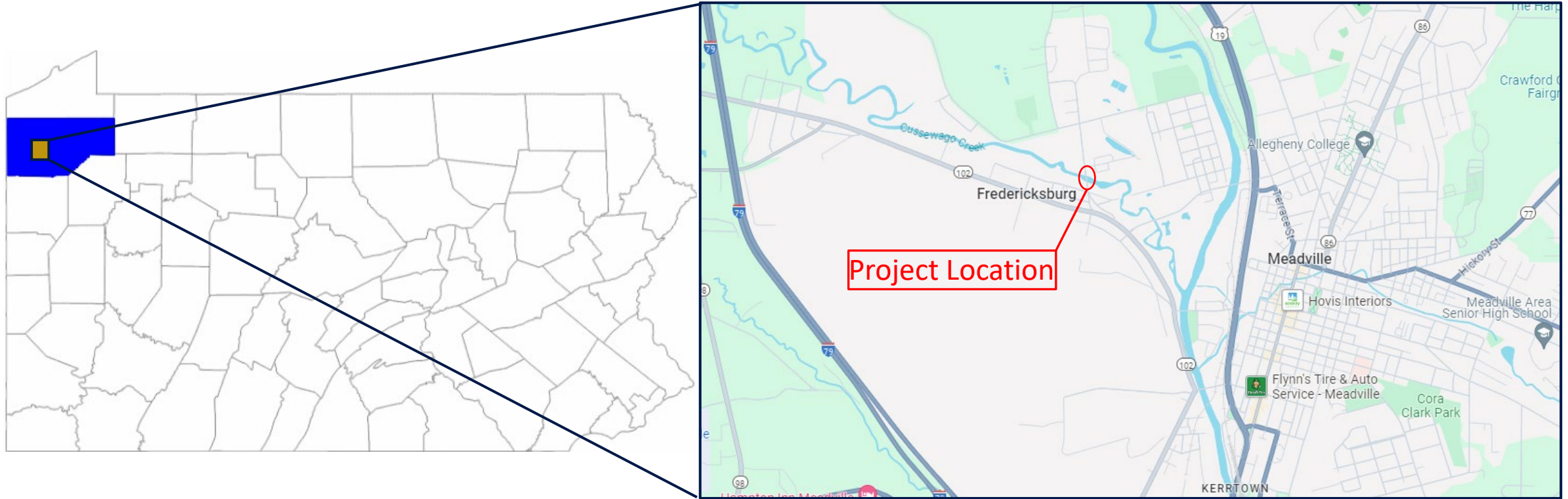


**DUNHAM ROAD (SR 2039) OVER
CUSSEWAGO CREEK BRIDGE
REPLACEMENT
CRAWFORD COUNTY**

JULY 2024

PROJECT OVERVIEW

PennDOT is planning replacement of the two-span steel beam bridge carrying Dunham Road (SR 2039) over Cussewago Creek in the City of Meadville and Vernon Township, Crawford County. The City of Meadville lies on the northern side of Cussewago Creek and the eastern side of Dunham Road while Vernon Township lies on the southern part of Cussewago Creek and the western side of Dunham Road.



PROJECT PURPOSE & NEED

Purpose:

To provide a structure that provides connectivity of SR 2039 (Dunham Road) spanning Cussewago Creek and that accommodates projected transportation use and legal loads.

Need:

The existing structure is in poor overall condition due to deterioration and age. Continued deterioration could reduce capacity limiting safe passage of legal loads.



EXISTING CONDITIONS

- The existing steel girder bridge was built in 1950.
- The two-span bridge has a total length of 157-ft and carries approximately 3,100 vehicles per day.
- Dunham Road is classified as an urban collector and has a speed limit of 35 mph.



EXISTING CONDITIONS

The existing concrete pier located was considered for reuse with a new superstructure.

However, based on the condition of the pier and proposed loading, it was determined to replace the pier along with the rest of the structure.



ENVIRONMENTAL FEATURES

- Cussewago Creek supports a variety of wildlife, plants, and aquatic species.
- The creek is known to contain federal and state threatened and endangered species of freshwater mussels.
- Mussel salvage and relocation will occur prior to construction.



TRAFFIC CONTROL

- Cussewago Creek is a recreational navigable waterway.
 - Cussewago Creek will be closed to all watercraft in the vicinity of the project during construction.
 - Aids to Navigation signage will be placed along Cussewago Creek streambanks prior to construction to alert watercraft of the closure.
 - Warning signage will also be installed at the Pennsylvania Fish and Boat Commission Boat Access Point located 0.75 miles upstream of the project.



TRAFFIC CONTROL

- The proposed structure will be constructed utilizing phased construction.
- One lane of alternating traffic will be maintained during construction via temporary traffic signals.



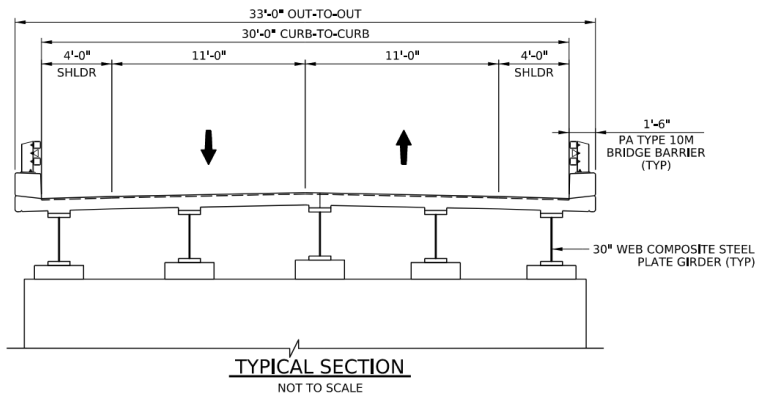
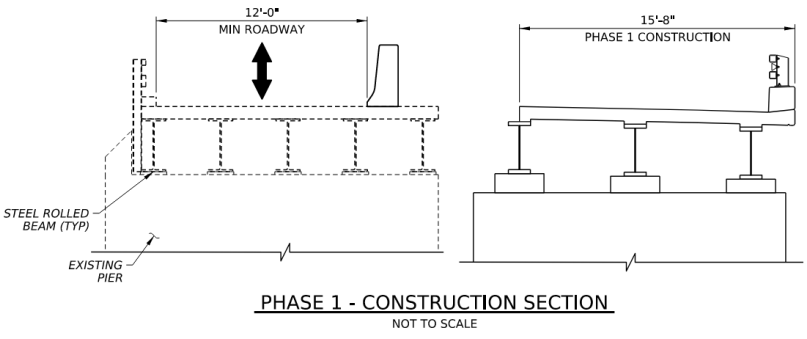
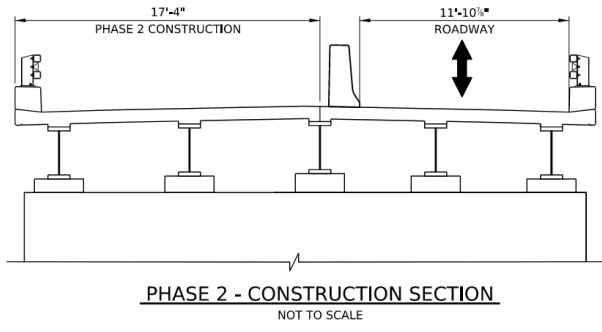
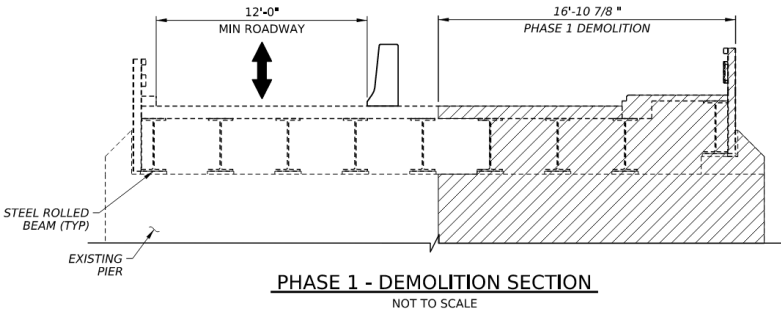
OLD DUNHAM ROAD DETOUR



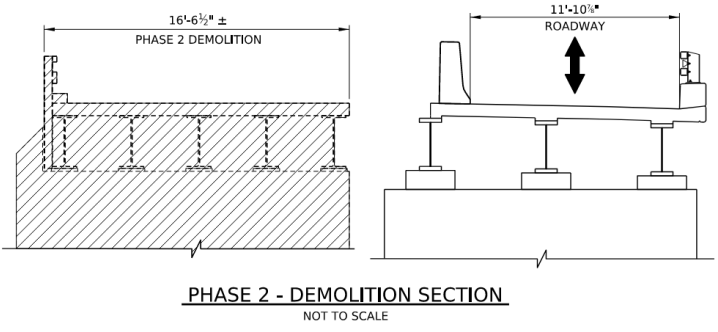
- Old Dunham Road will be closed during construction. Traffic will be detoured to Turner Road and Turner Alley.
- Total length of detour is 0.4 miles.



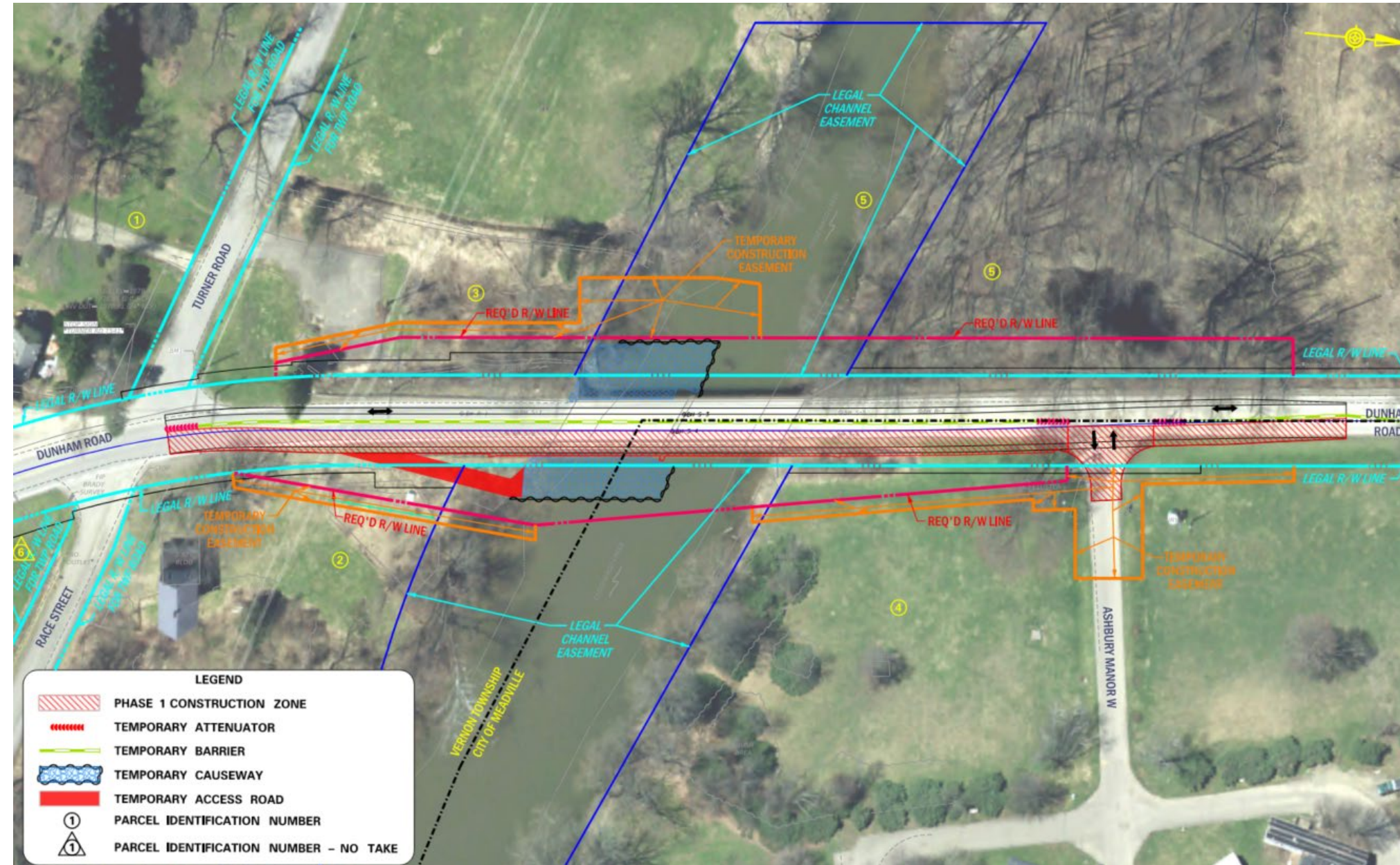
PROPOSED BRIDGE REPLACEMENT



LEGEND
 TRAFFIC DIRECTION
 DEMOLITION LIMIT



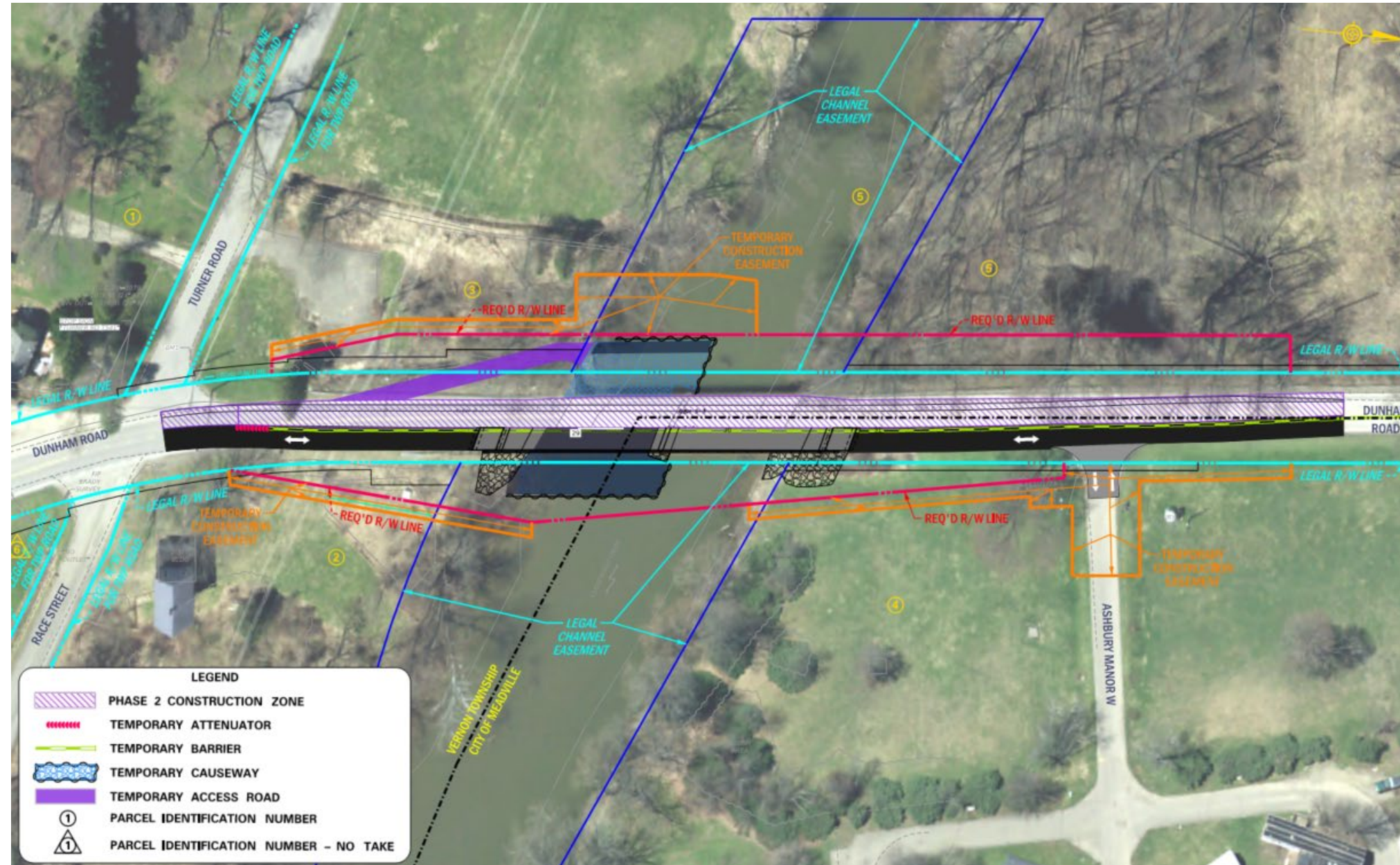
PROPOSED BRIDGE REPLACEMENT



One lane of alternating traffic will utilize the west side of the existing bridge while the east side is removed and replaced.



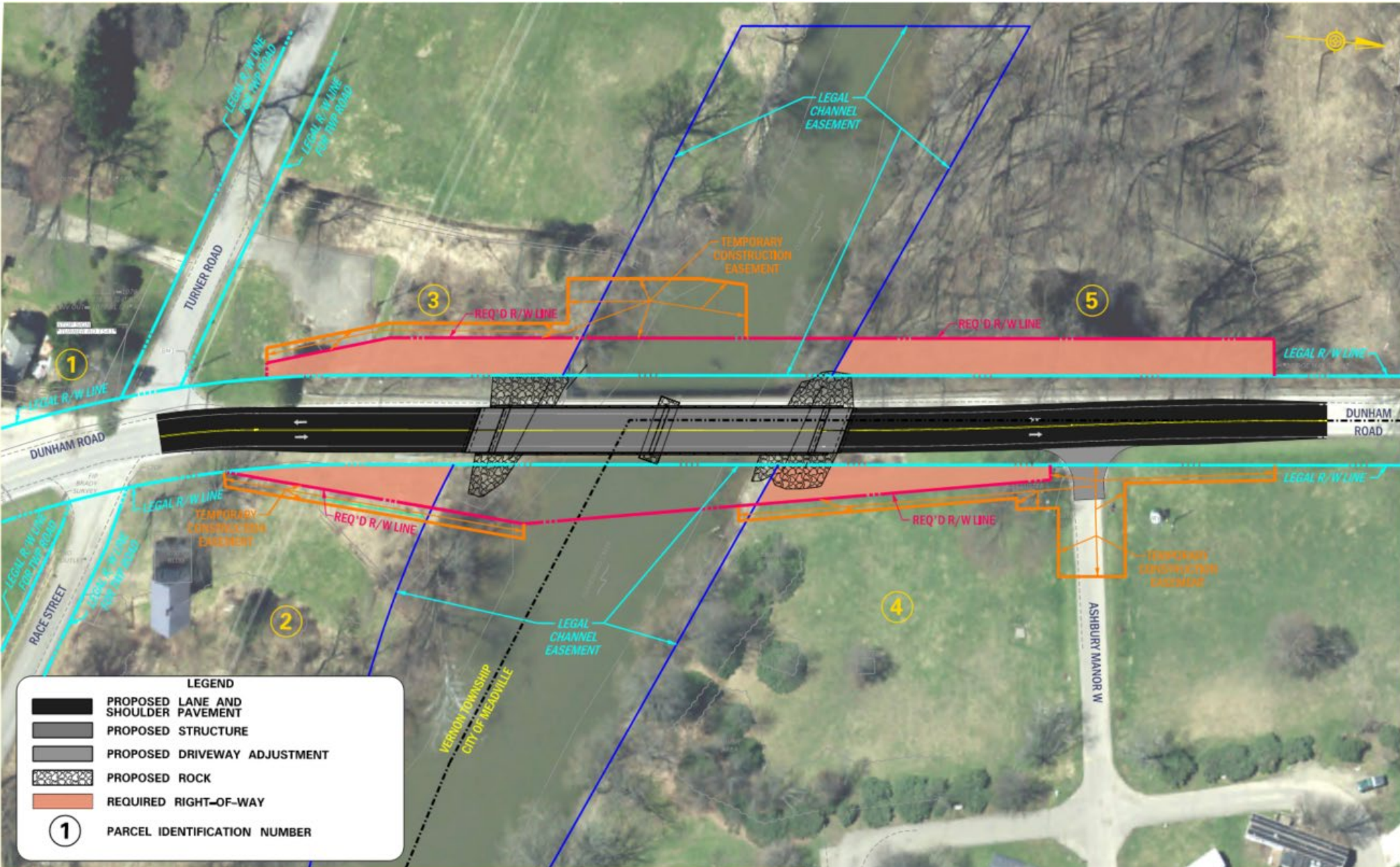
PROPOSED BRIDGE REPLACEMENT



One lane of alternating traffic will utilize the east side of the new bridge while the west side is removed and replaced.

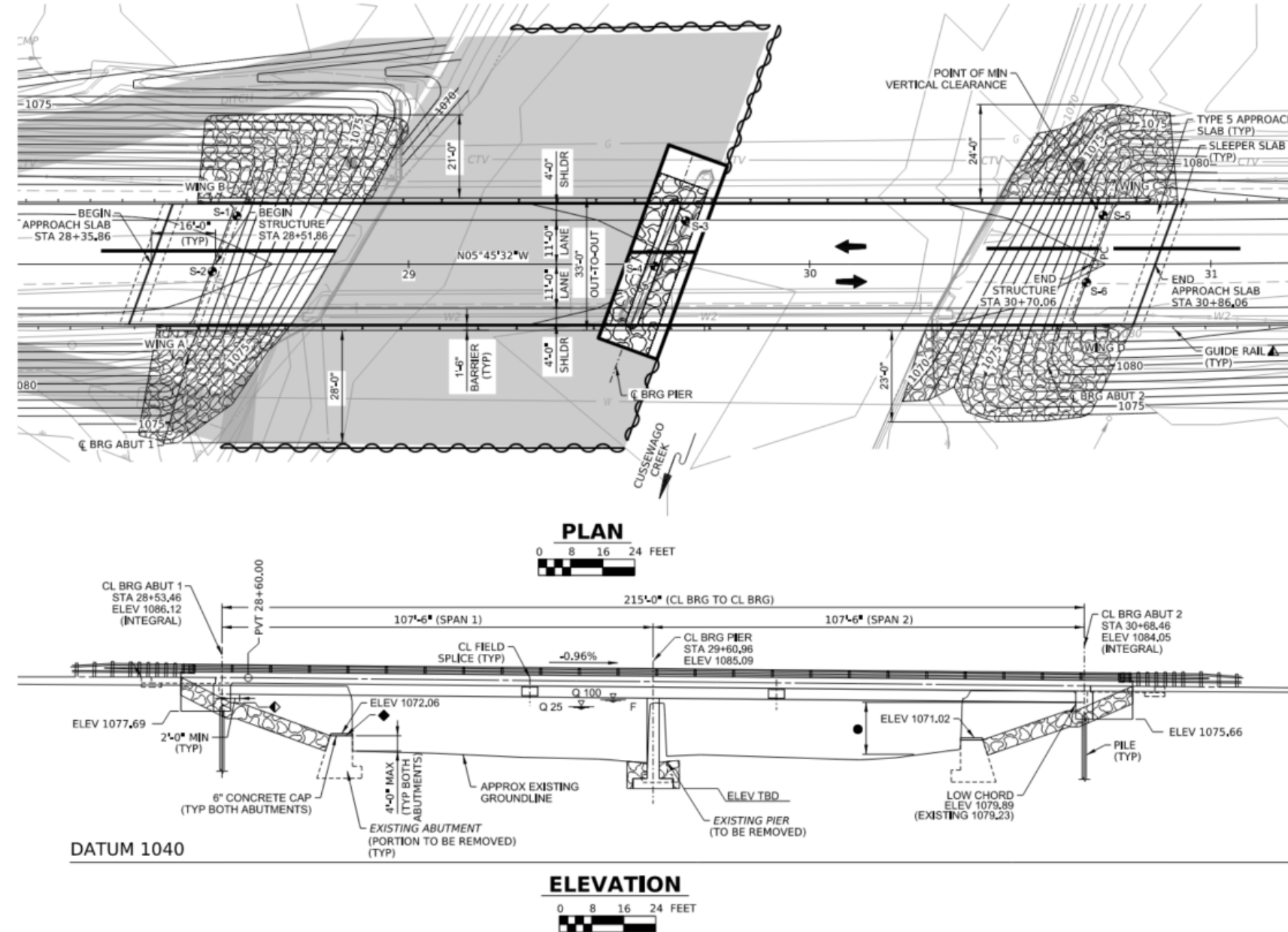


RIGHT-OF-WAY IMPACTS



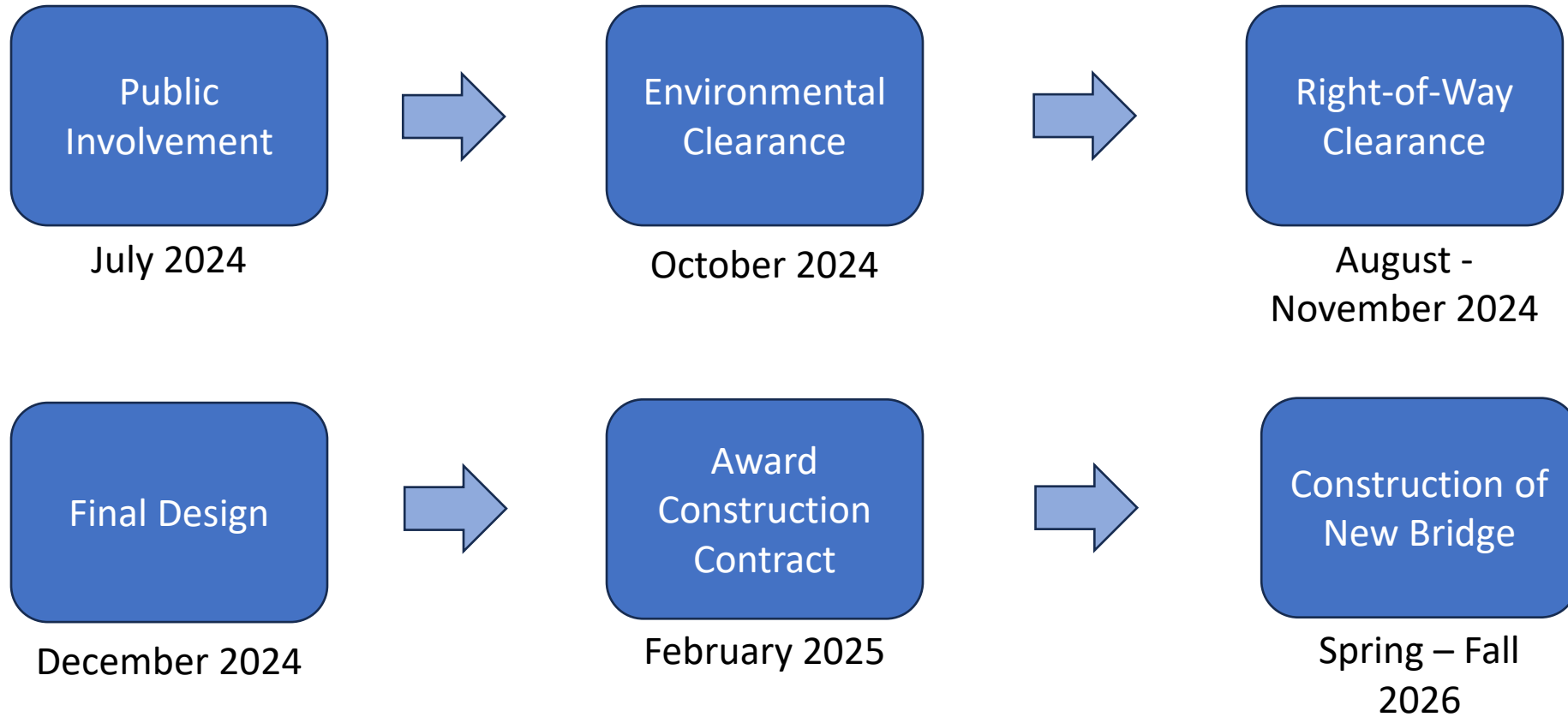
PROPOSED BRIDGE

- 215'-0" two-span steel girder structure
- Founded on concrete pier and integral abutments
- Typical section consists of two 11'-0" lanes and two 4'-0" shoulders



NEXT STEPS

Anticipated Timeline



PROJECT INPUT/FEEDBACK

Comments or Questions?

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Oil City, PA 16301

Phone: 814-678-7084



PROJECT INPUT/FEEDBACK

Project Information will be posted on PennDOT's website:

www.penndot.pa.gov/District1

How to Find this Project:

- Right side column click on “Design and Construction Projects”
- Select “Crawford County”
- Look for “Dunham Road Bridge Replacement”

