BELLS MILL/ VALLEY GREEN ROAD BRIDGE REHABILITATION PROJECT

Bells Mill Road

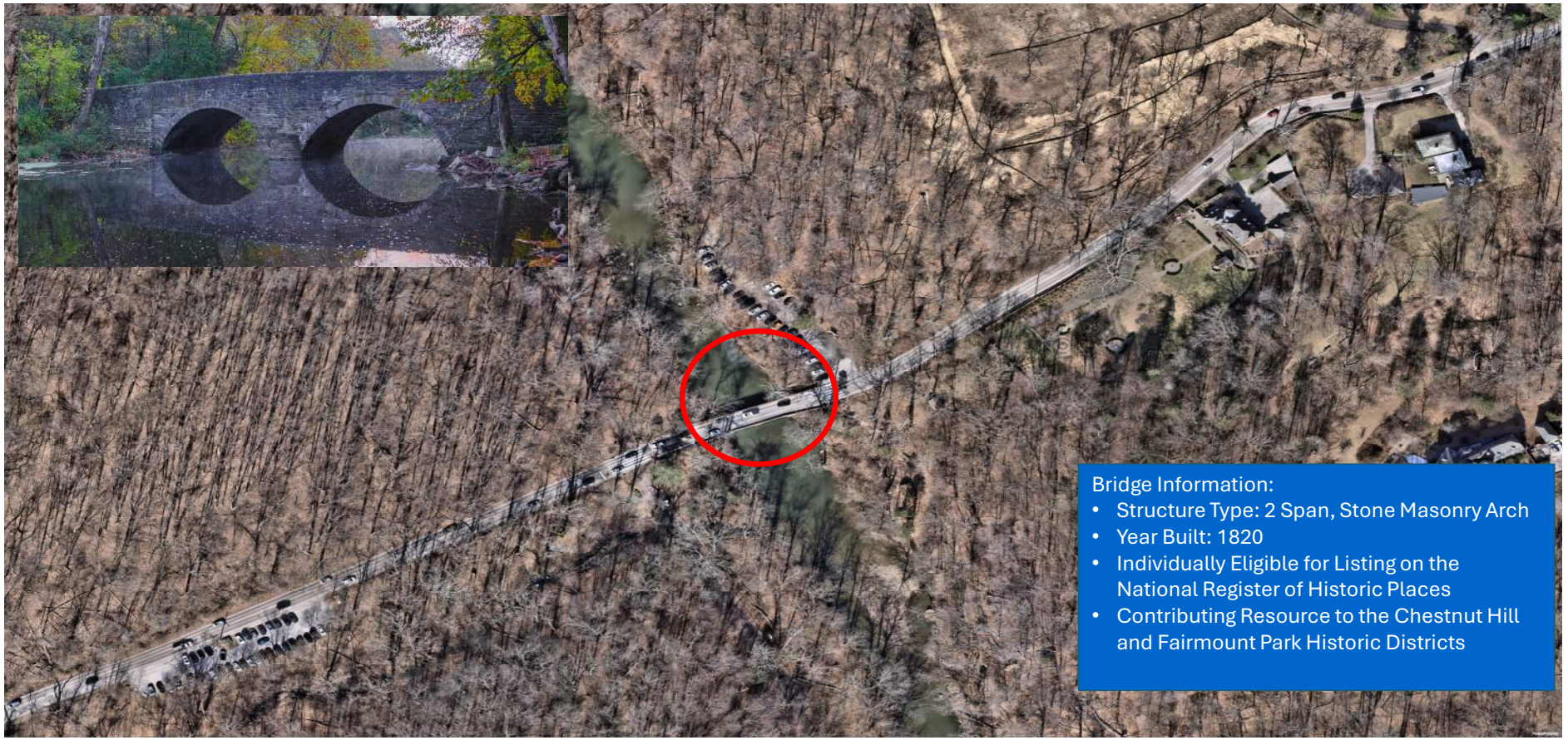
Valley Green Road

WELCOME

Public Open House
Thursday, January 22, 2026
6:00 pm – 8:00 pm

City of Philadelphia

BRIDGE LOCATION AND INFORMATION – BELLS MILL ROAD



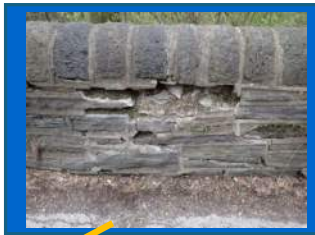
BRIDGE LOCATION AND INFORMATION – VALLEY GREEN ROAD

Bells Mill Road – Existing Conditions

Roadway

- Map cracking and longitudinal cracks throughout the pavement

Last Inspection: April 15th, 2025
Condition: Poor
Posted: 3 tons



Parapet

- Missing mortar
- Missing stones
- Full height cracks

Spandrel Walls

- Area of loose or missing stones
- Bulging stones
- Widespread deteriorated pointing

Abutments And Piers

- Severe scour with areas of undermining
- Large areas of missing mortar

Arch Barrel

- Large cracks along upstream fascia
- Water seepage

Valley Green Road – Existing Conditions

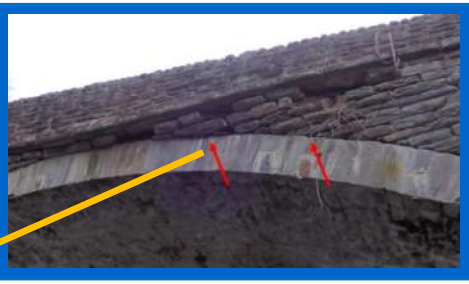
Parapet

- Missing mortar
- Full height cracks

Wingwall

- Bulging stones
- Missing mortar and stones

Last Inspection: April 15th, 2025
Condition: Critical
Posted: 5 tons



Spandrel Walls

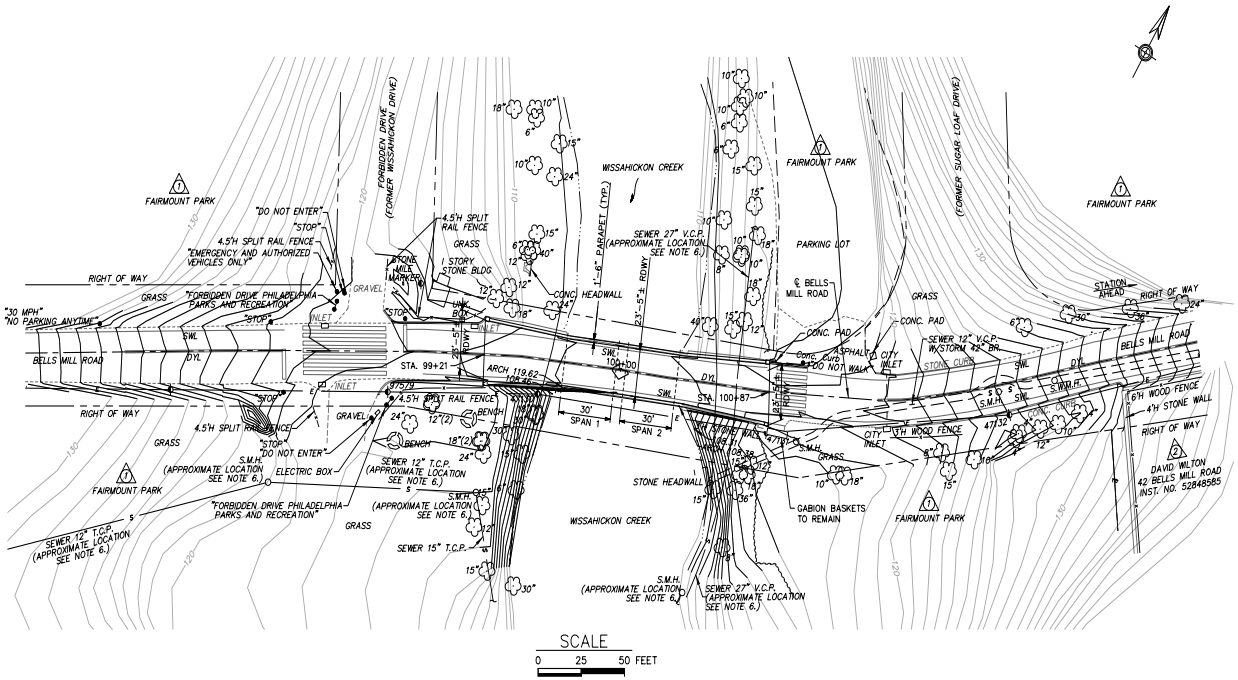
- Random missing stones
- Extensive areas of moderate to heavy mortar loss

Abutments

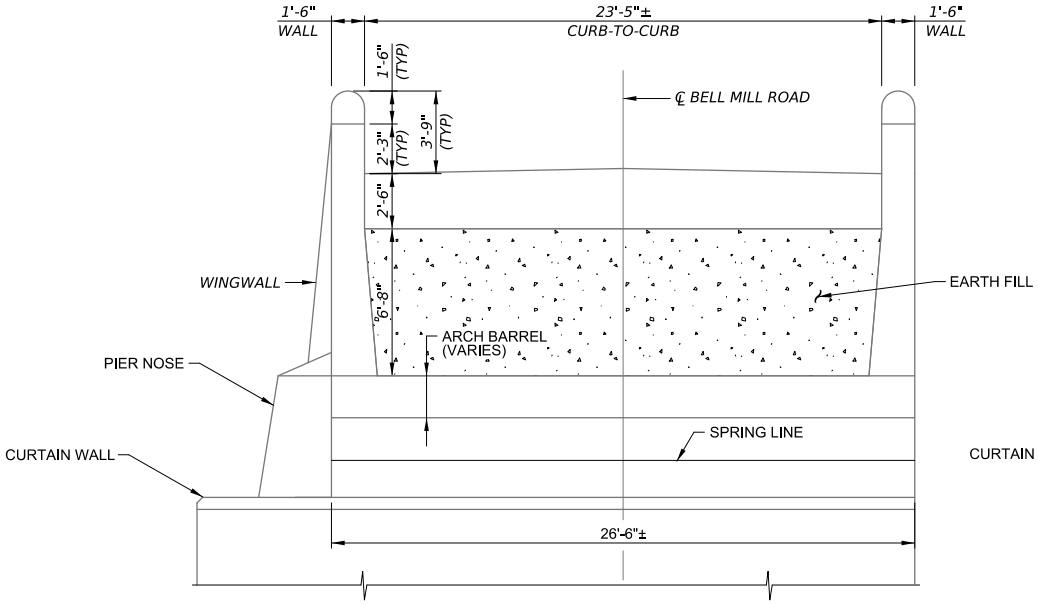
- Settled, cracked, loose, and missing footing stones
- Areas of severe scour with undermining

Bells Mill Road – Proposed Plan View

- Removing the pavement and earth fill.
- Removing the existing parapets and deteriorated parts of wingwalls and spandrel walls.
- Reconstructing spandrel walls and wingwalls in-kind.
- Repointing masonry arch barrels and substructure units.
- Placing lightweight concrete fill material.
- Filling voids under the foundations with concrete and constructing concrete collars around the perimeter.
- Installing a reinforced concrete deck and stone faced concrete parapets.
- Installing rock protection at each substructure unit.
- Conserving and resetting the existing date stone.
- Wetland mitigation will be developed by the creation of wetlands along Wises Mill Road.



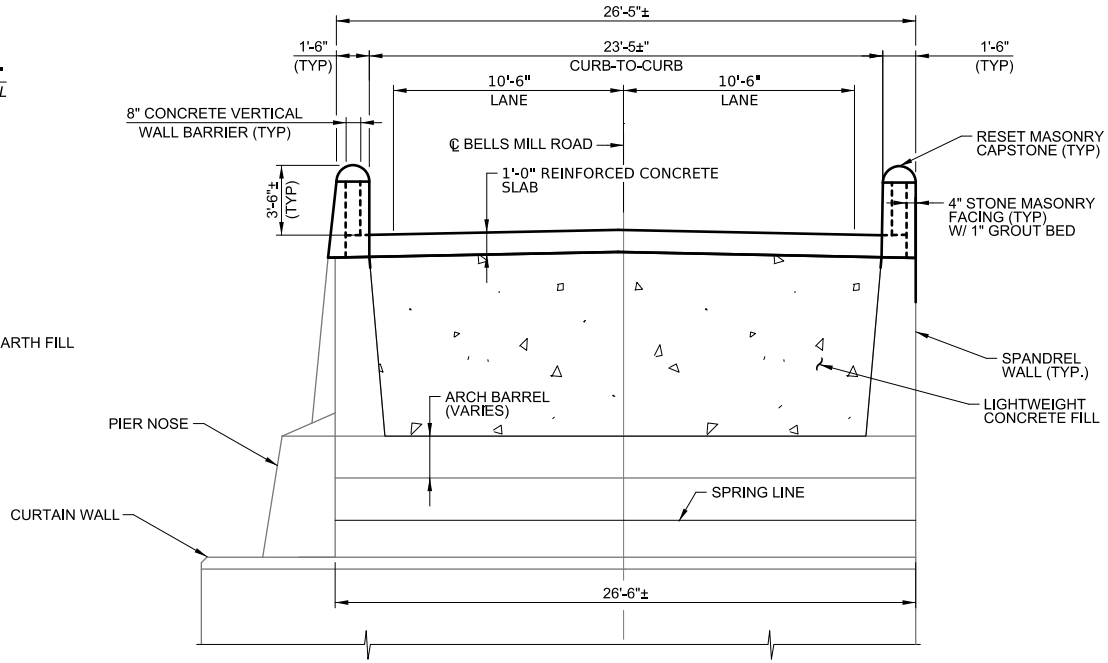
Bells Mill Road – Proposed Cross Section



TYPICAL SECTION - EXISTING

(LOOKING EAST)

2 0 2 4 FEET



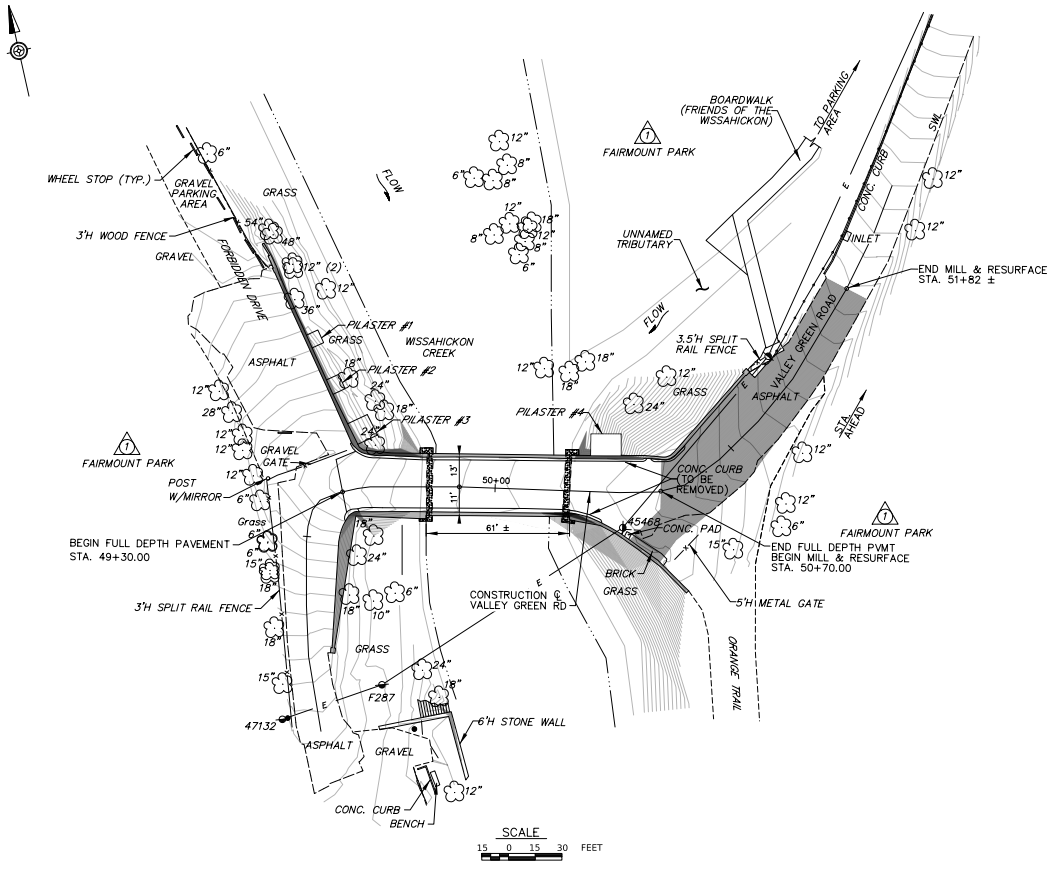
TYPICAL SECTION - PROPOSED

(LOOKING EAST)

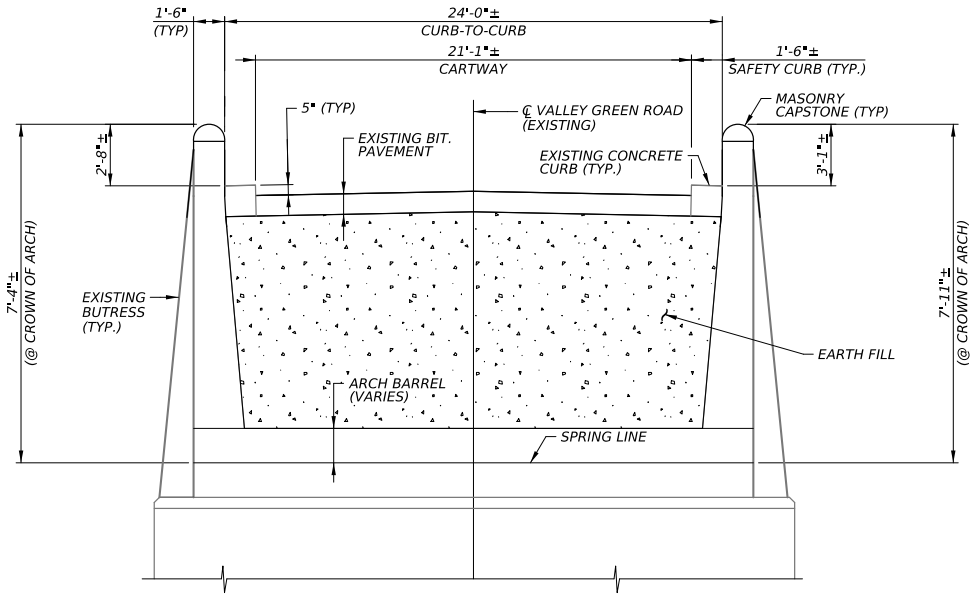
2 0 2 4 FEET

Valley Green Road – Proposed Plan View

- Removing the concrete curbs, pavement, and earth fill.
- Rehabilitation of parapet, spandrel walls, and wingwalls.
- Repointing masonry arch barrels and substructure units.
- Placing lightweight concrete fill material.
- Installing an asphalt roadway.
- Filling voids under the foundations with concrete and constructing a concrete collar around the perimeter.
- Installing rock protection at each substructure unit.
- In-place conservation of the existing date stones.
- Wetland Mitigation will be developed by the creation of wetlands along Wises Mill Road.

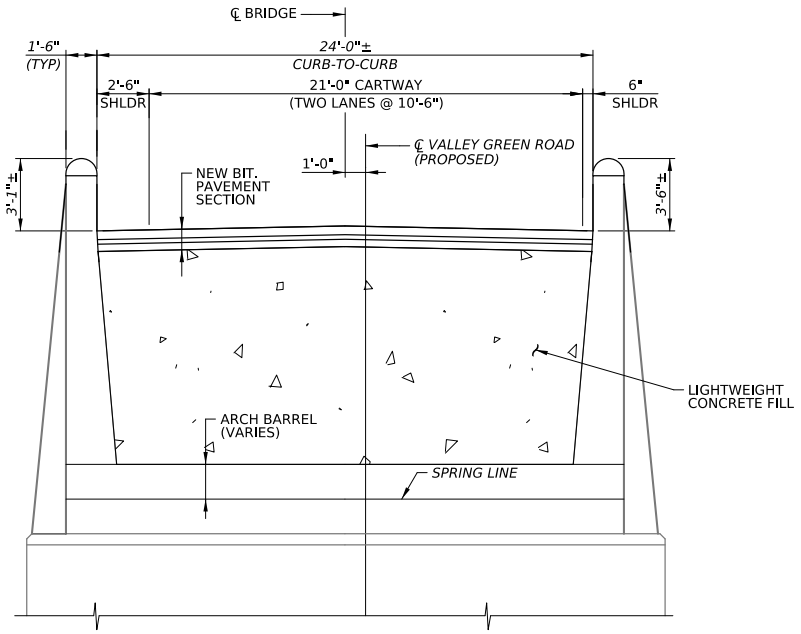


Valley Green Road – Proposed Cross Section



TYPICAL SECTION - EXISTING

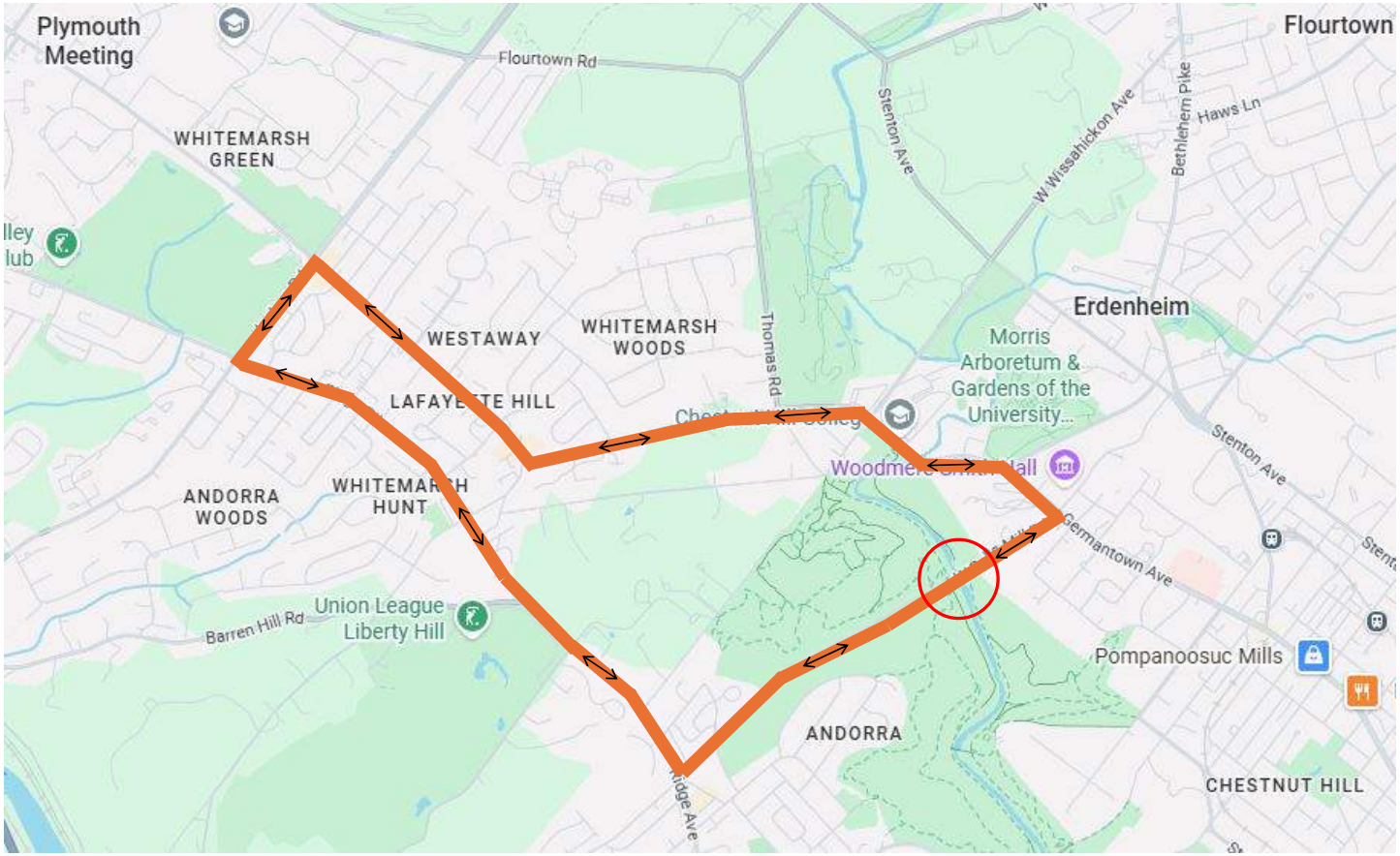
2 0 2 4 FEET



TYPICAL SECTION - PROPOSED

2 0 2 4 FEET

Bells Mill Road – Vehicular Detour Plan

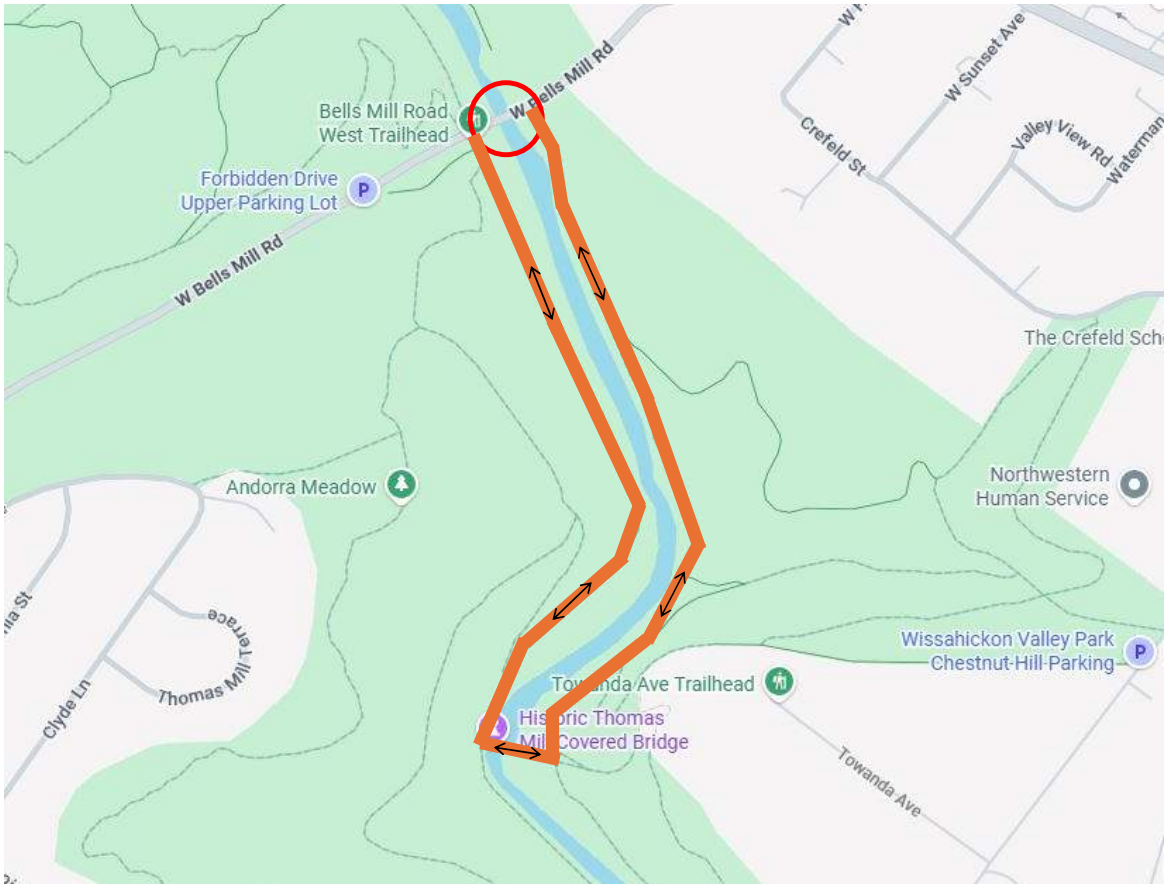


= Bridge

Route Length: 6.5 miles

N

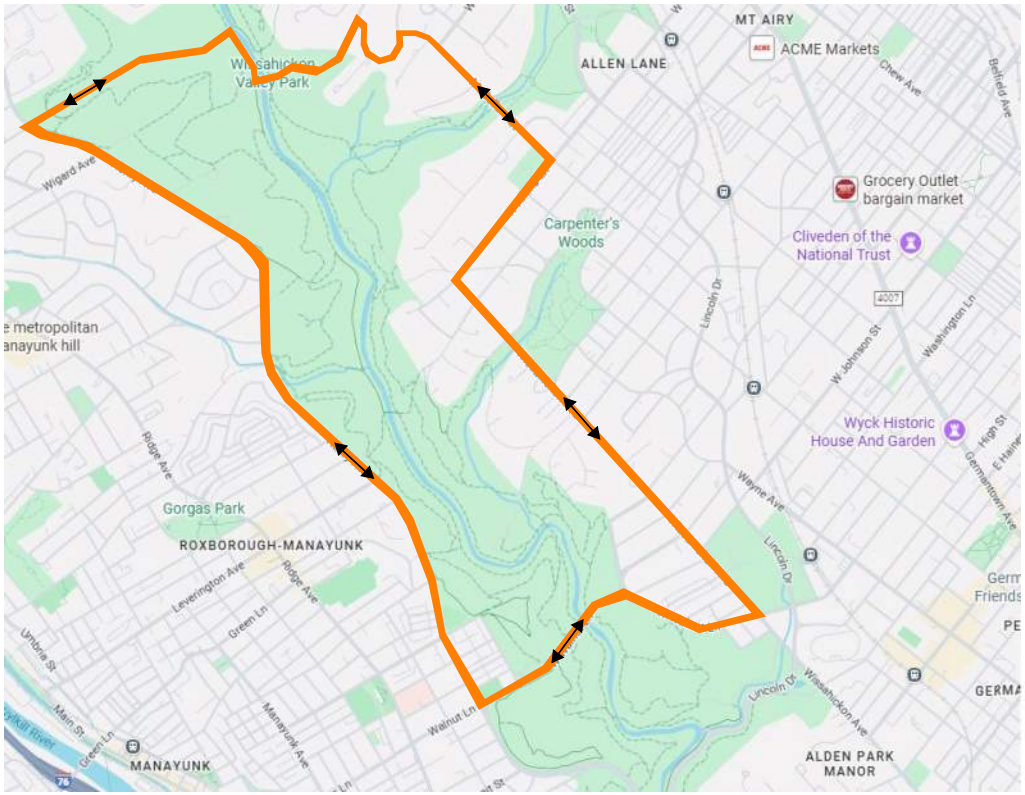
Bells Mill Road – Pedestrian Detour Plan



= Bridge

Route Length: 1.8 miles

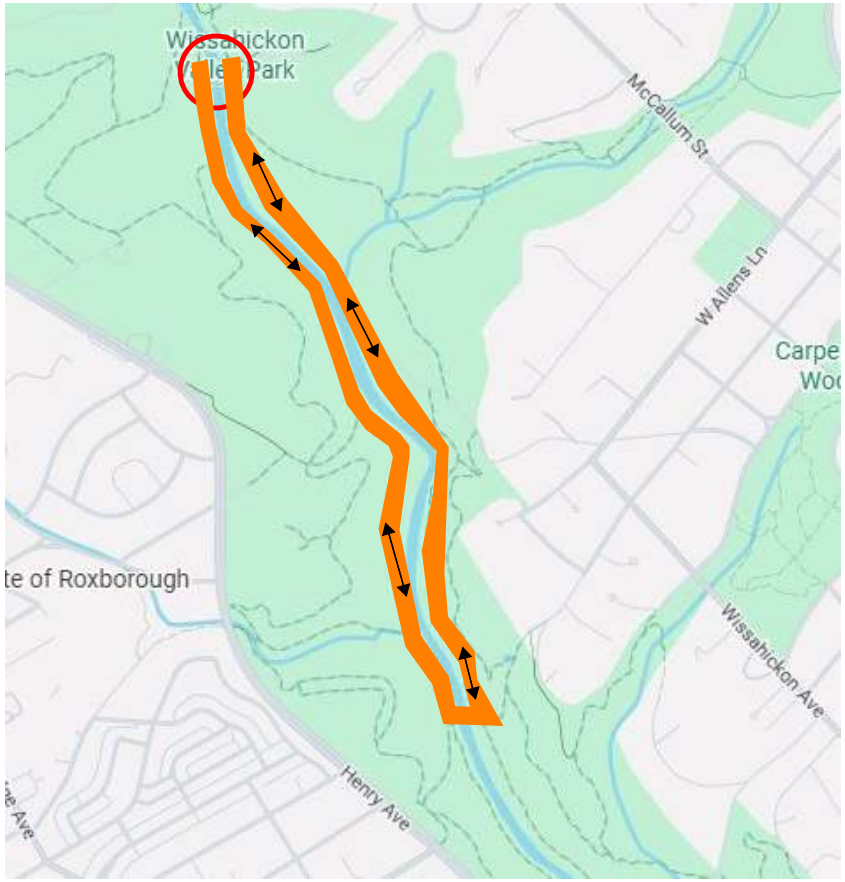
Valley Green Road – Vehicular Detour Plan



= Bridge

Route Length: 8 miles

Valley Green Road – Pedestrian Detour Plan



= Bridge

Route Length: 2.2 miles

N

Anticipated Remaining Project Timeline