

Project Description
State Project No. 0011-0161
Replacement of Bridge No. 01488 Carrying
Route 178 over Wash Brook
Town of Bloomfield

Bridge No. 01488 carries Route 178 over Wash Brook in the Town of Bloomfield. The bridge is located approximately 0.1 miles west of the intersection of Route 189. The existing structure was built in 1926 and consists of a 23'-0" span concrete multi-cellular culvert with cast-in-place concrete wingwalls. The bridge out-to-out width is 46'-6" and the curb-to-curb roadway width is 39'-0" which includes a 5'-0" sidewalk at the northern section of the existing structure. An unattached sidewalk exists adjacent to the southern portion of the bridge on a separate pedestrian and utility structure. The three cells each have a height of 8'-0" and a clear span of 7'-0". The bridge has a posted weight limit of 34 tons for a single unit vehicle and 36 tons for the tractor/semi-trailer combination vehicle in addition to being posted for emergency vehicles. The average daily traffic (ADT) is approximately 8,500 vehicles per day with 4% truck traffic according to the most recent inspection report.

According to the most recent inspection report dated June 6, 2023, the structural evaluation was rated to be in poor condition (rating 4). The concrete cells are noted to be in fair condition (rating 5). At the south end of all three cells exists transverse cracks in the roof slab that are a continuation of vertical cracks in the side walls, indicating the possibility of settlement. The cell roof slabs exhibit extensive mapcracking and the cell walls exhibit other signs of deterioration, notably isolated areas of severe scale in cell one, and a deep spall in cell three. Along the lengths of the cells, debris accumulation varies from 0" to 15" and is heavier towards the inlets. Due to the current structural capacity of the existing structure coupled with the hydraulic inadequacy, Project No. 0011-0161 has been scoped for full replacement of the existing Bridge No. 01488.

Permits: Environmental permits are anticipated under this project, the extent of which will be explored further by the Department.

Rights of Way: Property acquisitions are anticipated under this project. The project will require various construction easements to provide access to the adjacent properties through construction. Additionally, permanent easements may be necessary to construct retaining walls to accommodate the increased vertical alignment of Route 178.

Utilities: There are existing utilities in the area, the extent of which will be explored further by the Department. Temporary relocation of aerial facilities, permanent relocation of underground facilities and utilities being carried by the adjacent pedestrian bridge will be required to facilitate construction.

Schedule:

FDP: 1/12/2028

DCD: 2/23/2028

ADV: 3/22/2028

Anticipated Start of Construction: Spring of 2029