

State Land/Easement Project Work Plan
for
Construction of New Facilities and Expansion or
Modification of Existing Facilities
Fiscal Year 2022
Project # **2022-WB-009**

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|--------------------|---|
| Region 5 | Project Title Pharaoh Lake Brook bridge replacement |
|--------------------|---|

| Project Type | Town(s) | County | Management Unit |
|-----------------------------------|----------------|---------------|-------------------------|
| Modification of Existing Facility | Schroon | Essex | Pharaoh Lake Wilderness |

Project Description/Desired Condition(s):

The bridge crossing on Pharaoh Lake Brook has failed and will be replaced in the same location. The current bridge decking has been removed and one stringer left in place to help guide the rebuild. The bridge is 35' long by 6' wide. The old bridge has 2 stringers. The new bridge will be replaced with 2 or 3 stringers, depending on the size and condition of the available on-site timber. If a work crew can be assembled, the existing native timber cribbing will be replaced with pressure treated 6x6 lumber. Otherwise, the cribbing will be replaced with on-site hemlock trees. Two to three on-site hemlock trees will be felled to use as stringers. The decking from the old bridge was recently replaced and is in good condition, so it will be reused.

Trees to be Removed:

Up to six 16"-18" hemlock trees will be used for bridge stringers and cribbing.
(Five 16" and one 18")

Earthwork and Disturbance, Including Identification of Work Outside Trail Corridor:

Up to six 16-18" hemlocks trees will be felled and cabled into place. The existing cribbing will be deconstructed and rebuilt with new material. Rock filling will be reused. Earthwork will be limited to the existing footprint of the bridge and no wetland vegetation will be disturbed. The west bank is relatively steep and the east bank is more gradual.

Analysis of Project Location and Design Alternatives:

This trail provides the most direct route to Pharaoh Lake. As a multiple use trail, it is maintained for hiking and skiing. Not providing a bridge crossing would present an obstacle for skiers in the winter, which could be dangerous because of the trail slope and sharp curve when approaching the crossing from the northeast. It would also be difficult to cross the stream during high water conditions in the spring and fall for any user. During low water conditions, it is possible to rock hop across.

To avoid crossing the stream, a new trail of approximately 1.5 miles would need to be constructed. Potentially longer to avoid a bog and sedge meadow. Extensive tree clearing would be required. The existing trail is in good condition, so new trail construction of that length just to avoid a stream crossing is not a viable option.

Description of Measures Taken to Mitigate Impacts on Vegetation, Water Quality, Wild Forest Character and the Aesthetics of the area:

Construction of this bridge will protect water quality by protecting the stream bank, which is somewhat steep. All lumber scraps will be kept out of the water. Old cribbing and stringers (native timber) will be cut up and distributed

throughout the surrounding area, so it is not noticeable from the trail. The bridge will be constructed to standards appropriate for the intended use-hiking and skiing.

Identification of Rare, Threatened or Endangered Species:

There are no known RTE species within a quarter mile of this location.

Description of Use of Motorized Equipment and/or Motor Vehicles, if any:

Chainsaws will be used within the established chainsaw windows to fell the trees and cut lumber. If work is completed out side of the chainsaw window, hand tools will be used.

Other Relevant Considerations:



Current bridge condition, August 2022. Right stringer has since fallen, railing have been removed from water.

Map included as attachment to work plan.

Prepared by (Name & Title): Rebecca Terry, Forester 1
Phone: 518-623-1701

Date: 10/17/2022

REGULATORY CLEARANCE CHECKLIST – STATE LANDS and CONSERVATION EASEMENT PROJECTS

| PROGRAM | PERMIT | REQUIRED | | SECURED BY | COMMENTS |
|----------------------|---|-------------------------------------|-------------------------------------|---------------|---|
| | | YES | NO | (NAME) | |
| Air Resources | Restricted Burning | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Mineral Resources | Mining | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Materials Management | Solid Waste Mgt. Fac. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Water | Dam Safety Review | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Const. in Flood Hazard | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Public Water Supply | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | SPDES | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Spills Management | Petro. Bulk Storage | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Lands and Forests | Unit Management Plan | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Tree Cutting | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Rebecca Terry | tree cutting & work plan ENB to be submitted together |
| | Protected Native Plants | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Historic Preservation | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Fish and Wildlife | Freshwater Wetlands | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Wild Scenic & Rec. River | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Compliance Services | Other Protection of Waters | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | EAF | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Negative Declaration | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Env. Impact Statement | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Water Quality Cert. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| DEC (other) | CP-17 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Commissioner (aircraft,motorized equipment) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Flight Request | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Contract Clearance Sh. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | DOB Exemption | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Other Agencies | APA MOU | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | APA Wetlands Permit | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Corps. of Engineers | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Building Permits | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Local Permits | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Easements | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Highway Enter DOT | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| | Wastewater Disposal | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |

Pharaoh Lake Brook bridge replacement Pharaoh Lake Wilderness

