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## LANDSCAPE REPORT

**TO:** Steven Hunter, Chair and Members of the Planning Board  
Daniel Roemer, Building Inspector  
Valerie Monastra, Village Planning Consultant

**FROM:** Suzanne Nolan, ASLA  
Nolan Landscape Architects, PLLC

**DATE:** March 23, 2022

**RE:** 110-150 - Draper Lane

The below comments and recommendations are based on a review of the 11/18/21 drawings by Race Coastal Engineering for the Emergency Bank Stabilization 110-150 Draper Lane, Dobbs Ferry. Work is proposed to address storm damage resulting from Hurricane Ida.

### Comments:

1. Eroded areas of portions Wicker's Creek banks are shown as filled to generally re-establish pre-storm grades with banks armored in stone.
2. The sections on sheet 4 do not show the east property boundary, making it difficult to determine the relation of the proposed improvement to the east bank of the creek and the adjoining property.
3. No planting is currently proposed, although lawn restoration is identified.

### Recommendations:

1. A riparian buffer with a 10' minimum width should be planted for water quality improvement and to further stabilize slopes upgradient of the armoring. The riparian buffer should also be established along all portions of Wickers' Creek.
2. A buffer composed of a seeded, riparian grass/forbs strip upgradient of shrubs would be desirable as a transition from lawn areas.
3. Use of shrubs directly adjacent and upslope of the armoring will provide the visual benefit of masking the upper portion of the armoring as gravity will naturally encourages growth downgradient. Shrub planting in the form of live stakes would be an appropriate bioengineering approach.
4. Shrub varieties available as live stakes tend to be vigorous and tall. In narrow areas between the armoring and parking lot, shrub varieties that remain more compact, such as silky dogwood, red Osier dogwood, and buttonbush, should be used. Alternately, a conventional planting of shrubs, can be considered in narrow areas. While this would expand the variety of plants available for use, the spacing of plants would need to be dense in order to provide the soil stabilization benefit.
5. Addition of small caliper trees as a component of the riparian buffer, or in the lawn area upslope of the buffer, would provide further stabilization benefits and mitigate for trees lost as a result of the storm.
6. Identification of the east property line on the sections will help identify further bioengineering streambank stabilization opportunities.

**END**