TPC Potomac at Avenel Farm

Afforestation, Stream and Floodplain Restoration

Project Description

LandStudies, Inc. provided plant procurement, construction management and installation of 635 trees (1.5-2" cal. container and B&B), 612 shrubs (B&B), 53,750 herbaceous plugs, 2,080 gallon sized and 1,512 quart sized herbaceous material, and 173 shrubs as part of the restoration and afforestation along Rock Run and its three unnamed tributaties. These plantings were part of the overall restoration of the TPC Potomac at Avenel Farm golf course in Potomac, MD. In addition, LandStudies, Inc. provided construction management and supervision for the installation of an additional 1,700 trees (1.5-2" cal. container and B&B) for the Forest Conservation Plan. Herbaceous plants were arranged and installed to achieve the design concept prepared by LandStudies, Inc. and the PGA. The layout was adapted as necessary to optimize the opportunities to increase aesthetic appeal and reduce costs wherever possible.

Designed by LandStudies, Inc. the planting was part of the restoration of 6,900 linear feet of stream channel and floodplain, creating 9.3 acres of functional wetlands in the restored floodplains. In addition to 10 acres of afforestation, the restoration has provided the following:

- Allowed more frequent over-bank flow reducing the frequency and depth of flooding during high flows
- Reduced maintenance of the course by creating a stable, naturalized system
- Reduced the 2 and 10 year flood elevations up to 3 feet with significant reduction in channel velocity and shear stress
- Improved water quality by reducing bed and bank erosion and capturing nutrients and sediments in floodplain wetlands where they are naturally treated and infiltrated

Services

Assessment | Design | Permitting | Plant Installation | Construction Management

After

Before

Client:	Professional Golf Association – PGA
Cost:	$863,000
Location:	Potomac, Maryland

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