



## Wolf Trap National Park Vienna, Virginia

### Overview

A three span pedestrian bridge was needed to connect sections of the park by spanning ten lanes of highway and on rail line that are the main access to Dulles Airport. A lightweight deck was required, so fully assembled truss bridges could be quickly erected.

Owner: Virginia DOT

Installation Date: March 2012

### Bridge Deck Dimensions

Deck Size: Three spans— 150 feet, 170 feet, 148 feet by 15.5 feet

Deck Area: 7,100 square feet

Deck Panel Dimensions: 8.3 feet by 15.5 feet

Deck Depth: 3.5 inches

Deck Weight: 6.85 psf

### Bridge Features

Requirements:

- 90 psf live load; L/500 deflection
- 20,000 lbs emergency vehicle

Superstructure: Steel truss with longitudinal beams

Beam Spacing: 4.25 feet

Deck to Beam Connection: mechanical fasteners and clips

Skew: 34 degrees

Non Slip overlay: Epoxy Aggregate

Guard Rail: Attached to steel superstructure

Color: Gray

