



# Bergen County Bridge

Fairlawn/Patterson, New Jersey



Breaking through a lush grove of trees to connect the cities of Fairlawn and Patterson, New Jersey, the Bergen County bridge is one of several in the state to utilize hot-dip galvanized steel for corrosion protection. A natural surface appearance was desired by both communities to help the gently arcing bridge complement and not supersede the surrounding vegetation.

This goal was achieved by incorporating a new truss design to replace the previous view-obscuring plate design, so the public could continue to enjoy the scenic view of the creek flowing through the trees. In keeping with this natural emphasis, the soft, gray appearance of the zinc coating blends seamlessly into the surrounding environment.

Not only will the galvanized coating provide a pleasing aesthetic, it will also keep the appearance of the bridge unmarred by the unsightly effects of rust and corrosion. The barrier and cathodic protection developed during the galvanizing process will keep the bridge both structurally sound and free of dripping or streaking rust stains.

The large size of the trusses necessitated a progressive dip, where first one end and then the other are dipped into the molten zinc bath to provide full coverage for oversized elements. Special care was taken during the progressive dipping of the truss material to conceal any dip lines for an attractive, uniform zinc coating. All two tons of trusses, floor beams, flooring, diaphragms, supports, rail, and plates were hot-dip galvanized, ensuring the bridge will remain an attractive, functional addition to the two communities for generations to come.



### Galvanizer

V&S Columbus Galvanizing LLC

### Specifier

Bergen County/ Maser Consulting

### Engineer

Maser Consulting

### Fabricator

US Bridge

### Additional

Dopp & Dopp Associates

bridge & highway



American Galvanizers Association