

Replacement of Amtrak Bridge No.1620 over Route 372 Berlin, CT

Project Description:

AI Engineers, Inc. (AI) was selected by ConnDOT to provide Construction Engineering, and Inspection for this bridge replacement project on Amtrak's Springfield line.

The project consisted of replacing a single span, 30 ft. long, 45 ft. wide riveted steel through girder with a 66 ft. long and 48 ft wide Concrete Encased Steel Multi Girder. Other significant work included vertical clearance improvement from 11 ft. to 14.5 ft achieved by excavating the roadway up to 4 ft. and opting for the shallowest superstructure and raising the track profile by 3 ft. Three tracks were installed; one track was to remain active throughout construction. Abutments were reinforced concrete on steel HP piles.

Relocation/lowering of water lines, sanitary services, storm water pump station and storm water drainage systems and high pressure gas lines was required to complete the bridge reconstruction.

AI was involved in providing Construction Engineering, Support Services and Resident Engineering, Services, having done so in previous complex and large projects.

Also included was the reconstruction/widening of sidewalks and adjacent parking areas of 2,000 linear feet of Route 372.



Location
Berlin, CT

Owner
ConnDOT

Duration
2005 – 2010



Salient Features

- Approximate construction time – 3 seasons
- Three construction stages will be involved in constructing the bridge
- Drainage improvements including pump station construction
- Utility relocations
- New structure will maintain “historic look” by use of form liners to achieve the “brownstone effect” for bridge abutments
- Amtrak will be coordinated with during the construction
- Exterior work on Railroad station platform including handicap access
- Railroad force account work