



Civil / Structural /
Transportation Engineers

Construction
Inspectors/Managers

Bridge Condition
Inspectors

New Jersey
New York
Pennsylvania

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Portal Bridge Capacity Enhancement Project, Design of Construction Access Platforms, NJT Contract No. 08-042

Secaucus, New Jersey

PROJECT TYPE

Design

PROJECT OWNER/CLIENT

New Jersey Transit

CONTRACT AMOUNT

\$1,200,000 fee

START & END DATES

10/2008 – 06/2013

ROLE

Subconsultant to Portal Partners
(TriVenture with Gannett Fleming, Inc.,
Jacobs, and HNTB)
Bridge and Structural Engineering

REFERENCES

Richard Sirabian, Jacobs,
(973) 267-0555 Ext. 1392

PROJECT DESCRIPTION

The Portal Bridge over the Hackensack River, originally built in 1910, is used by 500 NJ Transit and Amtrak trains daily between Newark and New York Penn Stations. The existing structure is a draw bridge that opens during navigational traffic and impedes the rail traffic. Under this \$1.7 billion design project, the existing swing bridge river crossing is being replaced and a new parallel crossing is being added. The design features 3-span tied-arch structures with adequate clearance for navigational traffic below.

We provided design services and prepared construction documents for the installation of construction access platforms, estimated at \$49 million. The 33-foot wide platforms are steel framed structures with timber decking supported on steel bents. The steel bents are supported by end bearing steel piles. These platforms facilitate the construction of a permanent viaduct and support heavy crane movement. SJH also was involved with the design of the permanent viaduct structures and retaining walls.



SJH Engineering, P.C.