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DESCRIBE THE PRESENT AND ORIGINAL (if known) PHYSICAL APPEARANCE

The Fink type truss bridge, known as Bridge #FC-64, spanning the South Branch of the Raritan River in the Village of Hamden, New Jersey was constructed in 1857 by the Trenton Locomotive and Machine Manufacturing Company. It has a span of 99.9 feet carrying a one lane 15.05 foot wide roadway.

This truss bridge combines different systems of triangular bracings so that the imposed weight on any particular section is distributed evenly throughout the bridge since the foot of the post of each triangle is capable of settling vertically or moving to the side so that the tension rods of each system of triangular bracings will be strained unifromly.

The bridge of Hamden is an excellent, almost perfect, example of the Fink-truss bridge as shown in Plate II of Fink's patent dated May 9, 1854.

The entire bridge frame forms a rectangular box measuring approximately 100 feet long, by 15 feet wide, by 19 feet high. The vertical braces, or tie rods, are spaced at approximately 12 foot intervals and, except for the end tie rods, are hexagonal-shaped cast iron. The end vertical braces are also cast-iron, but of more substantial strength. Suspension rods are attached at the top of the end braces and secured into the bases of each tie rod up to the center of the bridge. In addition, each of the vertical tie rods has intersecting suspension rods visually creating a spider's web impression.

The stretchers on the top of the bridge crossing the river are also hexagonal-shaped cast iron. Those connecting rods from one truss to the other at the top are perforated small narrow I-beams.

There is a wooden railing along the inside of the bridge about two feet above the road bed to prevent structural damage from vehicles to the iron members.

The modern roadbed, laid over corregated steel plating, is reinforced by twin I-beams which are further strengthened by seven traversing I-beams underneath the entire structure. The abutments are stone, and possibly original.

Although the roadbed and the sub-structure is of modern construction the super-structure conforms favorably to the original configuration. ഗ

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Employed by several railroad companies in the south Fink was, at various times; in charge of design of bridges

9. MAJOF	R BIBLIOGRAPHICAL	REFERENCES							I
Historic American Engineering Record.Inventory form completedby Eric DeLony, HAER, 1973American Railroad Bridges.Theodore Cooper.New York:(p. 20 and plates XIV & XIX).American Building Art:19th Century.Carl Condit.New York:									
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Form 10-3000 UNITED STATES DEPARTMENT OF THE INTERIOR (July 1969) NATIONAL PARK SERVICE		New Jersey				
	NATIONAL REGISTER OF HISTORIC PLACES	COUNTY Hunterdon FOR NPS USE ONLY				
	INVENTORY - NOMINATION FORM					
	(Continuation Shoot)	ENTRY NUMBER	DATE			
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and Division Engineer of the Baltimore and Ohio Railroad, and Chief Engineer, General Superintendent, and, finally, Vice-President of the Louisville and Nashville Railroad. Fink also had numerous innovative designs for

railroad/bridges which he subsequently patented.



Form	10-300a
(July	1969)

## UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

## NATIONAL REGISTER OF HISTORIC PLACES

## INVENTORY - NOMINATION FORM

(Continuation Sheet)

New Jersey	
Hunterdon	
FOR NPS USE ONL	Y
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DEC # 4	13/4

(Number all entries)

9. Major Bibliographical References (Cont'd)

Malone, editors. New York: 1931 (Volume 6, pp. 387-88). <u>United States Patents:</u> <u>May 9, 1854 (#10,887), April 9, 1867 (#63,714), March</u> 3, 1857 (#16,728), July 4, 1871 (#116,787).



