

**United States Department of the Interior
National Park Service**

**National Register of Historic Places
Continuation Sheet**

Section number _____ Page _____

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: 02001509 Date Listed: 12/12/2002

Property Name: Frog Hollow Bridge ... County: Hunterdon State: NJ

Multiple Name

This property is listed in the National Register of Historic Places in accordance with the attached nomination documentation subject to the following exceptions, exclusions, or amendments, notwithstanding the National Park Service certification included in the nomination documentation.

Patrick Andrews
Signature of the Keeper

12/12/2002
Date of Action

Amended Items in Nomination:

This SLR is issued to make two technical corrections to the form. Section 3 of the form was not fully completed. The NJ SHPO has confirmed that the property is being nominated at the Local level of significance. The form did not include a UTM point; the SHPO informed us that the UTM is: Zone 18 515468 4508566. The form is officially amended to add this information

DISTRIBUTION:

- National Register property file**
- Nominating Authority (without nomination attachment)**

United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form

NAT. REGISTER OF HISTORIC PLACES
NATIONAL PARK SERVICE
1509

RECEIVED
AUG 20 2001
HISTORIC PRESERVATION OFFICE

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Frog Hollow Road Bridge over minor tributary of the South Branch, Raritan River
other names/site number Hunterdon County Bridge #T-9

2. Location

street & number Frog Hollow Road approx. 1400' west of Beavers Road. not for publication
city or town Tewksbury Township vicinity
state New Jersey code NJ county Hunterdon code 019 zip code 07830

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register criteria. I recommend that this property be considered significant nationally statewide locally. (See continuation sheet for additional comments.)

Signature of certifying official/Title

Date

State of Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. (See continuation sheet for additional comments.)

Signature of certifying official/Title

Date

State or Federal agency and bureau

4. National Park Service Certification

I hereby certify that the property is:

- entered in the National Register. See continuation sheet.
- determined eligible for the National Register. See continuation sheet.
- determined not eligible for the National Register.
- removed from the National Register.
- other, (explain:)

Signature of the Keeper

Date of Action

Patrick Andrews

12/12/2002

Frog Hollow Road Bridge
Name of Property

Hunterdon County, NJ
County and State

5. Classification

Ownership of Property
(Check as many boxes as apply)

- private
- public-local
- public-State
- public-Federal

Category of Property
(Check only one box)

- building(s)
- district
- site
- structure
- object

Number of Resources within Property
(Do not include previously listed resources in the count.)

Contributing	Noncontributing	
		buildings
		sites
<u>1</u>	<u>0</u>	structures:
		objects
<u>1</u>	<u>0</u>	Total

Name of related multiple property listing
(Enter "N/A" if property is not part of a multiple property listing.)

Historic Bridges of Tewksbury Township

**Number of contributing resources previously listed
in the National Register**

0

6. Function or Use

Historic Functions
(Enter categories from instructions)

Transportation: road-related
(vehicular)

Current Functions
(Enter categories from instructions)

Transportation: road-related
(vehicular)

7. Description

Architectural Classification
(Enter categories from instructions)

Other: stone arch bridge

Materials
(Enter categories from instructions)

foundation Stone: granite, gneiss
walls N/A
N/A
roof Stone: granite, gneiss
other _____

Narrative Description

(Describe the historic and current condition of the property on one or more continuation sheets.)

Frog Hollow Road Bridge
Name of Property

Hunterdon County, NJ
County and State

8. Statement of Significance

Applicable National Register Criteria
(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- A Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B Property is associated with the lives of persons significant in our past.
- C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D Property has yielded, or is likely to yield, information important in prehistory or history.

Criteria Considerations
(Mark "x" in all the boxes that apply.)

Property is:

- A owned by a religious institution or used for religious purposes.
- B removed from its original location.
- C a birthplace or grave.
- D a cemetery.
- E a reconstructed building, object, or structure.
- F a commemorative property.
- G less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance
(Enter categories from instructions)

Transportation
Engineering

Period of Significance

ca. 1860 - 1910

Significant Dates

ca. 1860

Significant Person
(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

N/A

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

Bibliography

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # _____
- recorded by Historic American Engineering Record # _____

Primary location of additional data:

- State Historic Preservation Office
- Other State agency
- Federal agency
- Local government
- University
- Other

Name of repository:

County Engineer

Frog Hollow Road Bridge
Name of Property

Hunterdon County, NJ
County and State

10. Geographical Data

Acreeage of Property Less than one acre

UTM References

(Place additional UTM references on a continuation sheet.)

1	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Zone	Easting	Northing
2	<input type="text"/>	<input type="text"/>	<input type="text"/>

3	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Zone	Easting	Northing
4	<input type="text"/>	<input type="text"/>	<input type="text"/>

See continuation sheet

Verbal Boundary Description

(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification

(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title Stacy E. Spies, Architectural historian

organization ARCH2, Inc.

date May, 2001

street & number 395 Main Street Suite 8

telephone 732-906-8203

city or town Metuchen

state NJ

zip code 08840

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.

A Sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional items

Check with the SHPO or FPO for any additional items)

Property Owner

Complete this item at the request of SHPO or FPO.)

name Hunterdon County Roads, Bridges and Engineering Department

street & number Route 12 County Complex

telephone (908) 788-1102

city or town Flemington

state NJ

zip code 08822

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

National Register of Historic Places Continuation Sheet

Historic Bridges of Tewksbury
Township, Hunterdon County,
New Jersey

Section number 7 Page 1

Frog Hollow Road Bridge over a minor tributary of the South Branch of the Raritan River

Description

The Frog Hollow Road Bridge, identified by Hunterdon County as "T-9" (Photograph #1), is a single-arched, humpbacked, random rubble bridge approximately 12 feet long and 15 feet 6 inches wide. Most likely constructed between 1860 and 1873, the skew bridge carries a narrow rural, asphalt-paved road over a minor tributary of the South Branch of the Raritan River (Photograph #2). The crossing is located approximately 1,400 feet west of the intersection with Beavers Road in a steeply-sloped, wooded area. The bridge is in a rural setting with no nearby standing structures. The bridge, which is technically a culvert according to Federal Highway Administration definitions of spans less than 20 feet in length, continues to function in its original use as a vehicular bridge with only minor alterations to its original design. The bridge retains its integrity of location, design, setting, materials, workmanship, feeling, and association. The stonework and pointing are intact and repointing is unobtrusive.

This segmental arch bridge is constructed of irregularly-sized rectangular stones joined by mortar. The uncoursed rubble granite and gneiss used to construct the bridge were likely quarried from the streambed or from the immediate surrounding area. The voussoirs and capstones were likely roughly dressed on site. The bridge span rises at its center and the approach roads maintain a low profile (Photographs #3 and #4), common features in stone arch bridges used to provide maximum stream clearance. The arch is approximately 14 feet long and 4 feet 6 inches high. The bridge's wingwalls extend laterally from the main body of the bridge. Flat capstones of random sizes top the parapet walls. The large voussoirs are not radially aligned and the resulting arch ring is indistinct, with intrados stones that randomly project either horizontally or vertically (Photographs #5 and #6).

The bridge crosses a stream that is nearly parallel to the road alignment, a situation that could require a large skew angle. The bridge's skew angle was kept to just twenty degrees through two construction methods. First, the roadway is slightly kinked to partially alleviate the skew angle. Second, the arch barrel was skewed during construction. The awkward angles that result from the skew are hidden in the rubble stone behind the flat plane of the face stones.

National Register of Historic Places Continuation Sheet

Historic Bridges of Tewksbury
Township, Hunterdon County,
New Jersey

Section number 8 Page 1

Frog Hollow Road Bridge over a minor tributary of the South Branch of the Raritan River

Statement of Significance

The Frog Hollow Road Bridge is significant under National Register Criterion C at the local and state levels because it embodies the distinctive characteristics of a type, period, and method of construction. Hunterdon County, New Jersey, with more than 100 surviving stone arch bridges, contains the largest concentration of stone bridges in North America (Boothby, et al.: ii). The Frog Hollow Road Bridge is also an excellent representative example of the local "Northern township style" of stone arch bridges as defined by Boothby, et al (Boothby, et al.: 22).

The modern network of smaller roads in Hunterdon County, including those in Tewksbury, was largely in place by the mid-nineteenth century. No documentary evidence has been located that can verify with certainty the bridge's date of construction or its builder, a situation that is common to bridges of this age and region. Freeholders' minutes of the period are inconclusive and no road returns exist for this route. However, it can be determined that Frog Hollow Road was laid out between 1860 and 1873, as is seen in county maps of the period. The community of Califon grew during the second half of the nineteenth century along the banks of the South Branch of the Raritan River and was the site of a bridge crossing by 1850. The High Bridge Branch of the Central Railroad of New Jersey linked the community to the main line of the Central Railroad at High Bridge to the south, and thus, became a destination for farmers sending their crops to market. The creation of a road through Tewksbury that linked Califon with Chester, an established community to the northeast, is indicative of Califon's growth during the nineteenth century. Califon became a separate municipality in 1918. Based on the appearance of the Frog Hollow Road Bridge and its method of construction, it appears likely that the extant bridge was the first bridge constructed on this route at this crossing.

In addition to its role in the regional transportation system, the Frog Hollow Road Bridge is a good representative example of a local bridge type. As one of approximately 100 stone arch bridges in the county, the Frog Hollow Road Bridge contains many of the features that are characteristic of stone arch bridge construction in Hunterdon County.

National Register of Historic Places Continuation Sheet

Historic Bridges of Tewksbury
Township, Hunterdon County,
New Jersey

Section number 8 Page 2

The bridge typifies the "Northern township style" of stone arch bridges identified as common to Tewksbury, Lebanon, Alexandria, Holland and parts of Union, Readington, and Clinton Townships. The largest number of this type in the county is clustered in Tewksbury Township (Boothby, et al.: 22). This type has been described as being,

characterized by extraordinarily rough construction, being usually built of granite fieldstone, very roughly dressed. Voussoirs are seldom radially aligned and never cut on the intrados or extrados. The arch ring is indistinct, and the barrel is built of very rough, sharp pieces of stone laid on the centering and slushed with mortar backing. Bridges are built as close to the ground as the waterway permits, and approach roads are also kept on a low level, resulting in a characteristic humpback. This bridge style is exemplified by the pair of bridges T-8 and T-9 near the intersection of Frog Hollow Road and Beavers Road, and individually by the Bridge T-89, located on Guinea Hollow Road. Most of these bridges, and all three of the examples cited above, are slightly skewed with respect to the road alignment (Boothby, et al.: 22).

These Hunterdon County bridges "universally have cut stones on the arch faces only, and the barrels are filled with elongated random rubble stones, roughly parallel to the abutments, and filled with loose mortar apparently placed after all the stones are in place on the centering [arch]. [sic] (Boothby, et al.: 33)." The structures' exterior walls were laid first. In Tewksbury these walls were typically constructed of uncut stone except for the voussoirs, which were roughly dressed. In order to form the arch, a wood plank framework in a cylinder shape was constructed. Stone was laid on top of the framework to form the arch and mortar was laid between the stones. Rubble stone slushed with mortar was used to fill in the remainder of the bridge structure. The framework was removed once the mortar was set (Boothby, et al.: 33-34). In both design and method of construction, the Frog Hollow Road Bridge is representative of stone arch bridge construction in northern Hunterdon County and specifically Tewksbury Township during the second half of the nineteenth century and the first decade of the twentieth century.

National Register of Historic Places Continuation Sheet

Historic Bridges of Tewksbury
Township, Hunterdon County,
New Jersey

Section number 9 Page 1

Frog Hollow Road Bridge over a minor tributary of the South Branch of the Raritan River

Bibliography

A.G. Lichtenstein & Associates, Inc. *Stone Arch Bridge Inventory, Phase I, Hunterdon County, New Jersey*. June, 1995.

Boothby, Thomas E., et al. *Stone Arch Bridge Inventory, Phase II, Hunterdon County, New Jersey*. The Pennsylvania State University, November 12, 1998.

Bridge Records, Hunterdon County Engineers' Office.

Maps and Atlases

Beers, F. W. *County Atlas of Hunterdon, New Jersey*. New York: F.W. Beers & Co., 1873.

Cornell, Samuel C. *Map of Hunterdon County, New Jersey*. Philadelphia: S.C. Cornell and Lloyd Vanderveer, 1851.

D.J. Lake, S.N. Beers, and others. *Map of the Vicinity of Philadelphia and Trenton*. Philadelphia: C.K. Stone and A. Pomeroy, 1860.

Pugh and Downing, *Map of Hunterdon County, New Jersey*. 1902.

Survey Map Co. *Map of Hunterdon County, New Jersey*. New York

United States Department of the Interior
National Park Service

National Register of Historic Places Continuation Sheet

Historic Bridges of Tewksbury
Township, Hunterdon County,
New Jersey

Section number 10 Page 1

VERBAL BOUNDARY DESCRIPTION

The property being nominated includes the road right-of-way of Frog Hollow Road to a distance of ten feet beyond the east and west ends of the bridge, and also extends five feet to the north and south of the bridge.

BOUNDARY JUSTIFICATION

The nominated property includes the bridge and 10' in each direction of the approach roads.

United States Department of the Interior
National Park Service

National Register of Historic Places Continuation Sheet

Historic Bridges of Tewksbury
Township, Hunterdon County,
New Jersey

Section number Photos Page 1

PHOTOGRAPHS Frog Hollow Road Bridge over a minor tributary of the South Branch of the Raritan River

For all photographs:

Property Name: Frog Hollow Road Bridge

Property Location: Frog Hollow Road
Tewksbury Township,
Hunterdon County, NJ

Location of
Original negatives: ARCH², Inc.
395 Main Street, Suite 8
Metuchen, NJ 08840

Photographer: Stacy E. Spies (Photographs #1 - #5)
Peter Materna (Photograph #6)

Date: May, 2000 (Photographs #1 - #5)
December, 2000 (Photograph #6)

Photograph #1 of 6:

View: Through view looking west toward Califon.

Photograph #2 of 6:

View: Through view looking east toward Beaver Road intersection.

Photograph #3 of 6:

View: Looking downstream (northwest) at the south side of the bridge. Water flows into this opening.

Photograph #4 of 6:

View: Looking upstream (southeast) at the north side of the bridge. Water flows out of this opening.

Photograph #5 of 6:

View: Detail view of "T-9" incised into south elevation.

United States Department of the Interior
National Park Service

**National Register of Historic Places
Continuation Sheet**

Historic Bridges of Tewksbury
Township, Hunterdon County,
New Jersey

Section number Photos Page 2

**PHOTOGRAPHS Frog Hollow Road Bridge over a minor tributary of the South
Branch of the Raritan River**

Photograph #6 of 6:

View: Looking upstream. Detail of arch underside showing the randomly projecting stones on the intrados.

