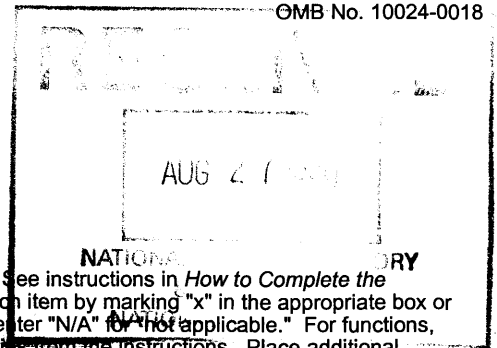


1193

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Registration Form



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 Ryefield Bridge

other names/site number \_\_\_\_\_

2. Location

street & number Bow Street over Crooked River N/A not for publication

city or town Stuarts Corner  vicinity

state Maine code ME county Cumberland code 005 zip code 04040

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] 8/23/99  
Signature of certifying official/Title Date  
Maine Historic Preservation Commission  
State or 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 this 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] 9/24/99  
Signature of the Keeper Date of Action

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

# **National Register of Historic Places Continuation Sheet**

RYEFIELD BRIDGE

CUMBERLAND/OXFORD, MAINE

**Section number**   2   **Page**   2  

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## **Additional Information:**

County:   Oxford  

Code:   017

Ryefield Bridge  
Name of Property

Cumberland/Oxford, Maine  
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>	_____	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.)  
N/A

**Number of contributing resources previously listed in the National Register**  
0

**6. Function or Use**

**Historic Functions**  
(Enter categories from instructions)  
Transportation/Road-Related  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Current Functions**  
(Enter categories from instructions)  
Transportation/Road-Related  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**7. Description**

**Architectural Classification**  
(Enter categories from instructions)  
Other: Double Intersection Warren Thru Truss  
\_\_\_\_\_  
\_\_\_\_\_

**Materials**  
(Enter categories from instructions)  
foundation Stone/Granite  
walls N/A  
\_\_\_\_\_  
roof N/A  
other Plaques on Portal Struts  
\_\_\_\_\_

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

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

# **National Register of Historic Places**

## **Continuation Sheet**

RYEFIELD BRIDGE

CUMBERLAND/OXFORD, MAINE

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Erected in 1912, the Ryefield Bridge is a one span, 98-foot-long, double intersection Warren steel thru truss bridge that is supported on ashlar abutments. The bridge has all built-up members composed of standard steel sections. The field connections are bolts. Steel floor beams and stringers carry a 16.5' wide plank deck with runners. The bridge has verticals and substruts in the end panels only. The original angle railing posts remain but the original railings have been replaced by wire ropes at an unknown date. A decorative manufacturer's plaque is attached to the outer portal struts.

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 a 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.

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
XX Other State agency
Federal agency
Local government
University
Other

Name of repository:

Areas of Significance

(Enter categories from instructions)

Engineering

Period of Significance

1912

Significant Dates

1912

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

American Bridge Company, Fabricator

United States Department of the Interior  
National Park Service

# National Register of Historic Places Continuation Sheet

RYEFIELD BRIDGE

CUMBERLAND/OXFORD, MAINE

Section number 8 Page 2

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Constructed jointly in 1912 by the towns of Harrison and Otisfield, the Ryefield Bridge is Maine's only identified example of a double intersection Warren thru truss bridge. It is also among the handful of known pre-1916 rivet-connected Warren truss bridges in the state. The bridge is eligible for nomination to the National Register under Criterion C for its statewide engineering significance.

The Warren design was patented in 1848 by British engineers James Warren and Willoughby Monzani. It rose to the fore as a highway bridge type and design after 1900 because of improvements in metallurgy and field pneumatic riveting. The Warren design, with equal sized members and the ability of some members to reverse stresses, was particularly well suited to riveted (rigid) connections. A second set of diagonals (double intersection), such as used for the Ryefield bridge, were sometimes added for rigidity. The Warren truss was a very popular highway truss type from about 1900 to the 1920s. Larger heavier examples were built in limited numbers by the Maine State Commission from the 1920s to the 1950s. Few of the earlier, lighter examples, such as this one, have survived in the state.

The Ryefield Bridge was designed and manufactured by the American Bridge Company, which had been established as a subsidiary of US Steel in 1901, and was a prolific builder of conventional types of bridges. It was constructed by the United Construction Company of Albany, New York, which was the contracting and erecting arm of the American Bridge Company.

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

# **National Register of Historic Places**

## **Continuation Sheet**

RYEFIELD BRIDGE

CUMBERLAND/OXFORD, MAINE

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### **Bibliography**

Maine State Highway Commission General Bridge Survey form for the Ryefield Bridge. 1924.  
Original copy on file at the Maine Department of Transportation, Augusta.

State of Maine Department of Transportation Historic Bridge Inventory Form for the  
Ryefield Bridge (#0238). March, 1999.

US Steel. American Bridge Division. History and Organization. Manuscript. Hagley Museum  
and Library, Wilmington, Delaware, 1975.

Ryefield Bridge  
Name of Property

Cumberland/Oxford, Maine  
County and State

**10. Geographical Data**

**Acreage of Property** Less Than 1

**UTM References**

(Place additional UTM references on a continuation sheet.)

1 

1	9	3	7	2	4	1	0	4	8	8	8	7	4	0
Zone				Easting				Northing						

3 

Zone				Easting				Northing						

2 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

4 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

  
 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 Kirk F. Mohney, Architectural Historian

organization Maine Historic Preservation Commission date June, 1999

street & number 55 Capitol Street, 65 State House Station telephone 207/287-2132

city or town Augusta, state Maine zip code 04333-0065

**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 \_\_\_\_\_

street & number \_\_\_\_\_ telephone \_\_\_\_\_

city or town \_\_\_\_\_ state \_\_\_\_\_ zip code \_\_\_\_\_

**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 a 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 Project (1024-0018), Washington, DC 20503.



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

# **National Register of Historic Places Continuation Sheet**

RYEFIELD BRIDGE

CUMBERLAND/OXFORD, MAINE

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## **Verbal Boundary Description**

The nominated property is a rectangle whose dimensions equal those of the bridge structure itself including superstructure, substructure, and floor system.

## **Boundary Justification**

The boundary embraces the significant historically associated elements of the Ryefield Bridge including the superstructure, substructure, and floor system.