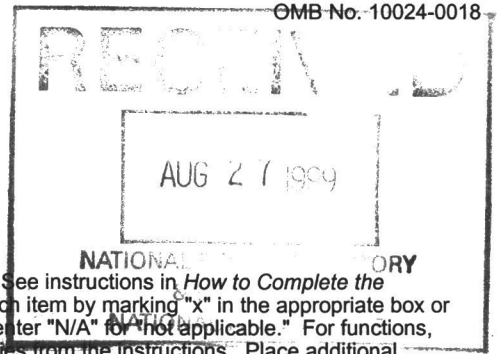


United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form

1193



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street & number Bow Street over Crooked River N/A not for publication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] Date 8/23/99
Signature of certifying official/Title _____

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] Signature of the Keeper Date of Action 9/24/99
Edson H. Beall

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

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
_____ structures
_____ objects
_____ 1 0 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

Section number 7 Page 2

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
- 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

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

Section number 9 Page 2

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

Section number 10 Page 2

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.

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
EVALUATION/RETURN SHEET

REQUESTED ACTION: NOMINATION

PROPERTY Ryefield Bridge
NAME:

MULTIPLE
NAME:

STATE & COUNTY: MAINE, Cumberland

DATE RECEIVED: 8/27/99 DATE OF PENDING LIST: 9/07/99
DATE OF 16TH DAY: 9/23/99 DATE OF 45TH DAY: 10/11/99
DATE OF WEEKLY LIST:

REFERENCE NUMBER: 99001193

REASONS FOR REVIEW:

APPEAL: N DATA PROBLEM: N LANDSCAPE: N LESS THAN 50 YEARS: N
OTHER: N PDIL: N PERIOD: N PROGRAM UNAPPROVED: N
REQUEST: N SAMPLE: N SLR DRAFT: N NATIONAL: N

COMMENT WAIVER: N

ACCEPT RETURN REJECT 9/24/99 DATE

ABSTRACT/SUMMARY COMMENTS:

Entered in
National Register

RECOM./CRITERIA _____

REVIEWER _____ DISCIPLINE _____

TELEPHONE _____ DATE _____

DOCUMENTATION see attached comments Y/N see attached SLR Y/N



RYEFIELD BRIDGE

HARRISON
STUARTS CORNER vic., CUMBERLAND / OXFORD
CO., ME

PATRICK HARSH-BARGER

MDO 3/1999

MDOT

VIEW FROM NW

1 of 3



RYEFIELDS BRIDGE

STUARTS CORNER vic,
CUMBERLAND/OXFORD COS., ME

PATRICK HARSHBARGER

3/1999

MDOT

VIEW FROM SW

2 OF 3



1912
THE UNITED CONSTRUCTION CO.
CONSTRUCTORS AND BUILDER OF
AMERICAN BRIDGE CO.
OF NEW YORK BUILDERS

J. F. SMITH
L. SPURR
W. A. BRETT

SELECTION MEN

RYEFIELD BRIDGE

STUARTS CORNER VIC.,
CUMBERLAND/OXFORD COS., ME

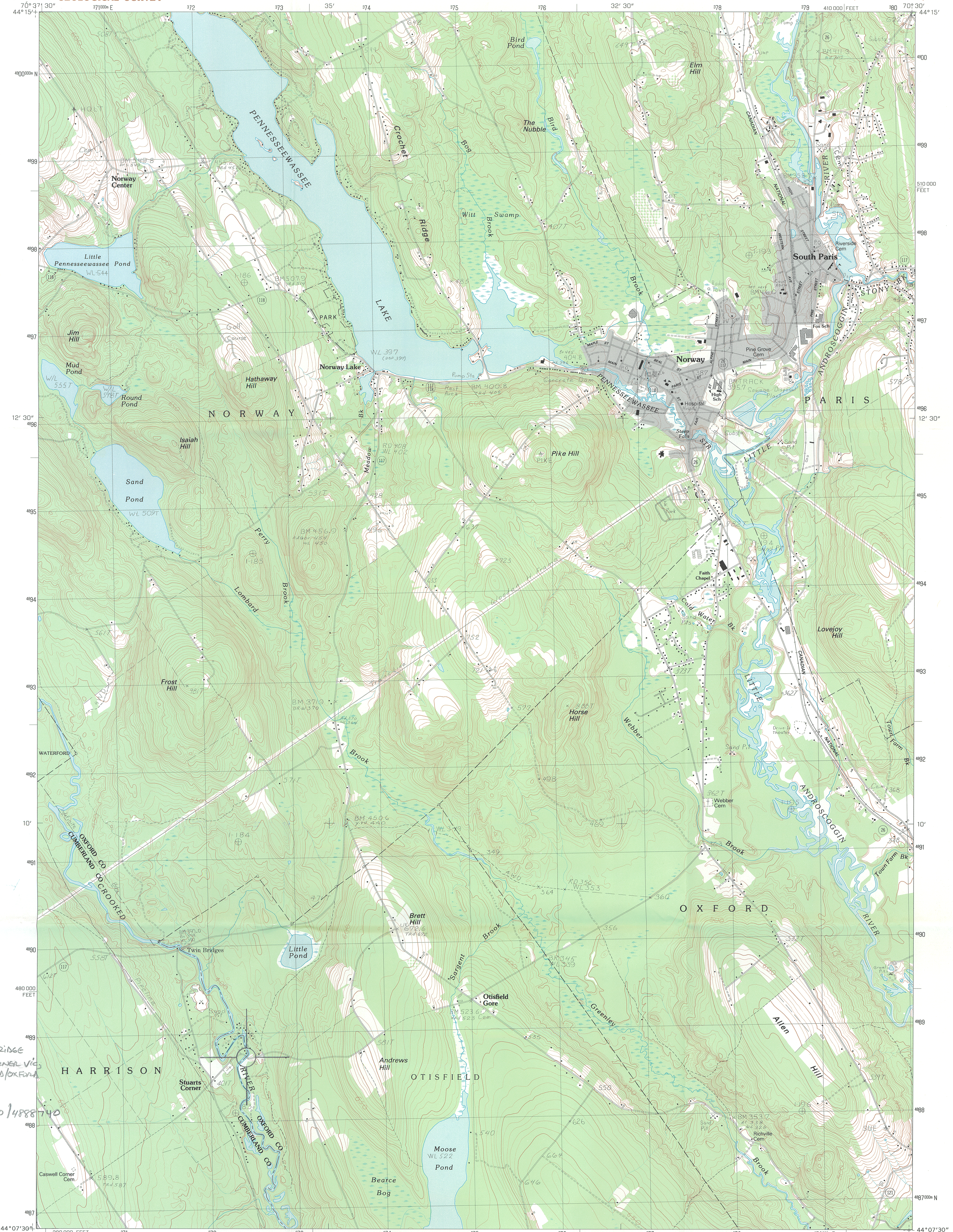
PATRICK HARSHBARGER

3/1999

MDOT

DETAIL VIEW OF PLAQUE

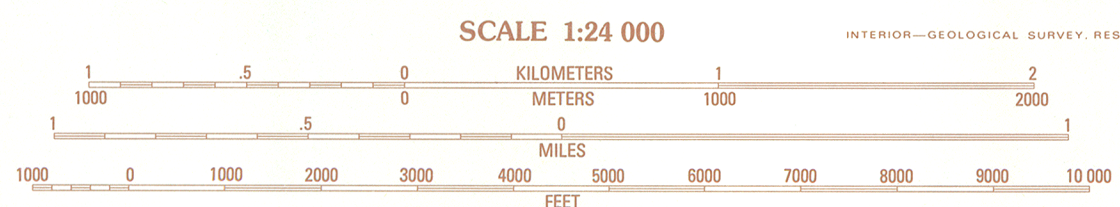
3 OF 3



RYEFIELD BRIDGE
STUARTS CORNER VIC.
CUMBERLAND/OXFORD
CO., ME
UTM:
19J372410/4888740

PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY USGS, NOS/NOAA, AND MAINE DEPARTMENT OF
TRANSPORTATION
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1978
FIELD CHECKED 1981. MAP EDITED 1983
PROJECTION TRANSVERSE MERCATOR
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ZONE 19
10,000-FOOT STATE GRID TICKS MAINE, WEST ZONE
UTM GRID DECLINATION 1985 WEST
1983 MAGNETIC NORTH DECLINATION 17°30' WEST
VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM 1927 NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983, move the
projection lines as shown by dashed corner ticks (4 meters
south and 41 meters west)
There may be private inholdings within the boundaries of any
Federal and State Reservations shown on this map
Gray tint indicates area in which selected buildings are shown

PROVISIONAL MAP
Produced from original
manuscript drawings. Informa-
tion shown as of date of
field check



CONTOUR INTERVAL 10 FEET
To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by .3048
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092

ROAD LEGEND

- Improved Road
- Unimproved Road
- Trail
- Interstate Route
- U. S. Route
- State Route

1	2	3	1 Greenwood
			2 West Paris
			3 West Summer
			4 Waterford Flat
			5 Oxford
			6 Bridgton
			7 Casco
			8 Mechanic Falls

ADJOINING 7.5' QUADRANGLE NAMES

NORWAY, MAINE
PROVISIONAL EDITION 1983
44070-BF-024