Form 10-300 (Rev. 6-72)

## UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

# NATIONAL REGISTER OF HISTORIC PLACES INVENTORY – NOMINATION FORM

STATE:	
	Vermont
COUNTY:	
_	Franklin
	FOR NPS USE ONLY
ENTRY D	ATE

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	1. 1	NAME							
		COMMON:						22222	
	- 1	Douglas & Jarvis	s Patent Pa	rabolic Tr	uss Iro	on Bridge			
	İ	AND/OR HISTORIC:				<u> </u>		$\neg$	
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	2.	LOCATION							
	į	Junction of State Aid Route 2 and the Missisquoi River							
	ŀ	Junction of State Aid Route 2 and the Missisquoi River  CITY OR TOWN:  Highgate Falls Vic.  STATE  CODE COUNTY:  COD COUNTY:  COD COUNTY:  COD COUNTY:  COD COUNTY:  COD COUNTY:  COD CO						7	
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The Douglas and Jarvis Patent Parabolic Truss Iron Bridge carries State Aid Route 2 across the falls of the Missisquoi River between the villages of Highgate Center and Highgate Falls in northwestern Vermont.

The structure consists of a 215 foot main through-truss span with an 80 foot secondary pony-truss span at its south end. The ends of the bridge are supported by stone abutments. A rusticated stone block pier supports the bridge at the point over the river where the two spans meet. Each span is supported by two flanking "lense shaped" trusses. Due to this distinctive truss design, the terms parabolic truss, lenticular truss or pumpkin seed truss are frequently used to describe this bridge type.

The top chord of the trusses of the main span consist of a series of riveted box beam segments. The bottom chords are formed of a series of iron eye bars. Vertical iron lattice compression posts are pin connected to the corresponding segment joints of the top and bottom chords. Each end of the iron I beams which support the deck are suspended by iron rods from the eye bar connecting pins of the bottom chords. As a result, the structure, when loaded, acts as a self-contained arch.

Iron lattice top chord bracing connects opposing segment joints between the top chords. Additional iron lattice bracing extends between the trusses, connecting alternating pairs of compression posts. Iron rod diagonal counter braces, fitted with turn buckles, are located in the panels. The deck is flanked by iron lattice guard rails. Heavy iron I beam portal posts support each of the four ends of the trusses of the main span. The north portal posts bear directly on the north abutment while the south portal posts bear directly on the pier. Both pairs of portal posts are capped by ornamental finials and are connected at the top by lattice cross bracing in the form of a segmental arch surmounted by an iron filigree railing.

The main span portals formed by the combination of these elements are each crowned by a plaque reading:

1887
Built By
The Berlin Iron Bridge Company
East Berlin, Conn.
Douglas & Jarvis Pat. Apr. 16, 1878
& Apr. 7, 1885

H. W. Varnum, Commissioner

J. B. Sanderson)

S. S. Stevens

Selectmen

C. R. Cummings

Form 10-300a (July 1969)

#### UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

# NATIONAL REGISTER OF HISTORIC PLACES

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Section 7

(Continuation Sheet)

(Number all entries)

A sign below the plaque reads:

Speed Limit Horse at a Walk Motor Vehicles 10 Miles Per Hr.

The pony-truss span is much smaller but of similar construction, lacking only portals and top chord bracing.

The only major alteration to the structure was the probable replacement of a wood plank deck with steel and concrete. Some of the iron filigree is missing above the portals. Many of the buildings, including a large three story mill, once clustered at the south end of the structure have now disappeared.



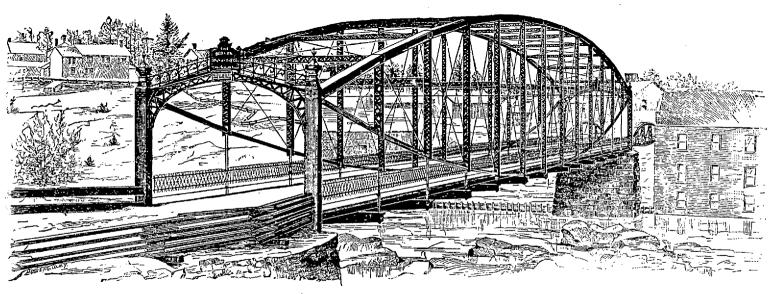
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	Chest	ter H. Liebs,	Supervisor		•	•		•	•	
	ORGANIZ						<del></del>	DATE		-,
	Vermo	ont Division o	f Historic Si	<u>te</u>	S	· · · · · · · · · · · · · · · · · · ·	- •	3/	12/74	
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	CITY OR	TOWN:		s	TATE					CODE
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12	SIATE	LIAISON OFFICER C	CRITICATION	#	N/	AHUNAL	REGIST	EK VERI	FICATIO	N
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		e designated State Liais	•		I hereby	certify t	hat this pr	operty is	included	in the
		Historic Preservation A		1	Nationa 1		•		•	
		5), I hereby nominate this National Register and c					a ==			
		. =	teria and procedures set			Poll	4110	٠ ا		
		by the National Park Ser	- ·			un	Ma	rice	<u> a</u>	
		of significance of this n			Director,	Office of	Archeology	and Histor	ric Preser	vation
		ational 🛪 State	· ·		Date	3	71/19	+		
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	Title		listoric Sites			A	n. 11	14.	(A	_
	State	e Historic Pre	servation		<del></del>	Keepe	r of The N	lational R	Register	<b>&gt;-</b>

Date

Officer

3/13/74



BRIDGE AT HIGHGATE, VT.

One Span of 215 feet, and one Span of 80 feet. Roadway, 20 feet wide.



FORM 10-301 A

### UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

# NATIONAL REGISTER OF HISTORIC PLACES PROPERTY PHOTOGRAPH FORM

(Type all entries attach to or enclose with photograph)

1. NAME	8/12/1/0/	
COMMON Douglas & Jarvis	AND OF HISTORIC	NUMERIC CODE (Assigned by NPS)
COMMON Douglas & Jarvis Patent Parabolic Truss	MAD LLEIVEI VE	MAR 2 1 1974
Iron Bridge / /	MAR 1 8 1974	
2. LOCATION C	No.	
STATE	SOUND NAI	TOWN
Vermont \S	REGISTE Franklin	Highgate Falls
STREET AND NUMBER	K1718112	
Junction of State Aid Ro		i River
3. PHOTO REFERENCE	•	
PHOTO CREDIT Engraver un-	DATE	NEGATIVE FILED AT original cata
known for Berlin Iron		log from collection of
Bridge Company	c. 188	Victor Darnell, Berlin
4. IDENTIFICATION		Steel Construction Co.,
DESCRIBE VIEW, DIRECTION, ETC.		Berlin, CT.

Engraving from Berlin Iron Bridge Company catalog c. 1888. View looking south with north portal in foreground.