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7.	DESCRIPTION								
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1	CONDITION		e)			(Che	ck One)		
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DESCRIBE THE PRESENT AND ORIGINAL (if known) PHYSICAL APPEARANCE

Sulphite Railroad Bridge crosses the Winnipesaukee River between its north and south banks approximately 7/10ths of a mile east of the former Franklin Falls railroad depot. 3 miles west of Tilton, and 350 yards south of U.S. route 3. Because the river swings slightly to the southwest through the crossing point, the actual alignment of the bridge is from northwest to southeast. The bridge cannot be seen from the road and is accessible only by walking some 300 yards over the railroad track from a parking area located near the Kidder Lumber Company just off U.S. 3 in Franklin. The right-of-way is hemmed in by trees and thick brush which obscure the view and make for difficult walking. Because m the tracks run over rather than between the trusses, it is possible to walk across the bridge without realizing that it is in fact z a covered bridge. Only by making the steep descent to river S level(at some personal risk) can one get a good broadside view. -

Sulphite Bridge is a triple-span Pratt truss design. The trusses consist of pairs of crossed metal rods extending between triple upper and lower chords. There are no secondary chords. The small diameter rods, which pass between the large diameter rods, are inclined toward the center of the bridge. Heavy metal clamps fastened to the underside of the lower chords hold the rods taut and firmly in place. The rods located inside the end panels are not crossed but instead parallel one another.

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Double-member uprights (8" by 10" timbers) are wedged between the chords at 9' intervals fright anglese bracing is provided by crossed 7" by 8" timbers spaced 6' apart bolted at their crossing points, the ends notched and wedged against upper and lower chords. Lateral bracing between the chords consists of metal rods which connect the apexes of adjoining crossed timbers. Heavy wooden joists laid across the upper laterals support the roof and roadway overhead.

The bridge is boarded over with 7/8" siding nailed to 2" by 4" 's and hung vertically to below the level of the lower chords. Floor boards have been laid over the lower laterals at either Continued on Continuation Sheet of Form 10-300a (July 1969) UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY - NOMINATION FORM

STATE								
NEW HAMPSHIRE								
COUNTY								
MERRIMACK								
FOR NPS USE ONLY								
ENTRY NUMBER DATE								
JUN	1 1 1975							

(Continuation Sheet)

(Number all entries) 7. DESCRIPTION. end, otherwise the lower deck is unfloored and extremely hazardous to walk upon. The bridge may be entered through doors located at either end. Heavy gauge wire mesh protects the siding immediately above the abutments, but vandals have broken through the siding and entered the east end of the bridge. The interior is covered with graffiti. There is also evidence of a small fire having been set recently directly underneath the bridge. Arson and vandalism are a serious threat.

The wooden roof is protected by metal sheeting and overhangs the bridge ends and sides by 1'. The single-track roadway rests directly upon the bridge top. The ties have been planed to fit *GAUNTLET TRACKS* the curvature of the roof. Iron guard rails spiked between the running rails afford some protection in the event of a derailment.

The spans, each measuring 60', rest upon two center piers built of coursed and mortared granite slabs. Each pier measures 25' by 12' at its base. The abutments are similarly constructed. Massive wooden sills resting upon stone bridge seats support the structure at either end.

Wooden timber and pile trestles support the bridge approaches. The triple-span east trestle approach is 31' long; the double span west trestle is 23' long; between abutments the distance is 180', giving the bridge a total length of 234'. The bridge, which has not been used by rail traffic for a year, is in fair to good condition. Some siding has been replaced; chords, joists, trestle piles, and other critical members show little sign of deterioration. The masonry is also in good condition.

The bridge is numbered 29-07-09 in <u>The World Guide to Covered</u> Bridges, 62 by the New Hampshire Department of Resources and Economic Development, and 248(formerly 218) by the Boston & Maine Railroad.

Continued on Continuation Sheet 2

GPO 921-724

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY - NOMINATION FORM

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Original Appearance. The bridge inspection records of the New Hampshire Public Utilities Commission indicate that the trestle approaches have been rebuilt several times; otherwise Sulphite Bridge has not much changed in appearance since its construction in 1897.¹

1 New Hampshire Public Utilities Commission, "Railroad Bridge Reports". plan #748.



GPO 921-724

PERIOD (Check One or More as Appropriate)											
Pre-Columbian	16th Century	18th Century	A 20th Century								
15th Century	17th Century	🕅 19th Century									
SPECIFIC DATE(S) (If Applicat	ole and Known) 1897-1	973									
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STATEMENT OF SIGNIFICANCE

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S S Engineering: Sulphite Bridge appears to be the last surviving deck-type covered, bridge in the United States. The present structure, built in 1896 or 1897 by the Bridges and Building Department of the Boston & Maine Railroad, replaces a framed trestle bridge erected here in 1891 or 1892 by the Franklin & Tilton Railroad.¹

Transportation: Chartered in 1889, largely for polltical rather than purely commercial purposes, and financed jointly by the Boston & Maine and Concord & Montreal railroads, the Franklin & Tilton Railroad finished construction of its five miles of line in June 1892. Substantially built at a cost of \$245.708.05. the new road connected the C&M's main line at Tilton with the B&M just west of a covered bridge crossing of the Merrimack River in Franklin. It opened with such poor prospects of earning profits, that the State Railroad Commissioners were of the frank opinion that it was of no use to anyone:"We know of no other case in which so much money has been spent for so little purpose on a railroad project." "Within a few years, however, the International Paper Company located three giant pulp and paper mills not far from Sulphite Bridge, which took its name from the great quantities which were transported over the F&T line for consumption by the local paper industry.³

In October 1895, the Franklin & Tilton was leased for 99 years (at an annual rental of \$1.00)to the C&M, which almost immediately reassigned the lease to the B&M. The paper mills closed during the 1920's. The bridge across the Merrimack was

Continued on Continuation Sheet $\mathcal{I}_{\mathcal{I}}$

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	New Hampshire Railroad Commission, <u>Annual Reports</u> , 1892,1896,1897. Patten, Natalie. "Covered Bridges of New Hampshire." scrapbook in												
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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE	STATE NEW HAMPSHIRE
NATIONAL REGISTER OF HISTORIC PLACES	COUNTY MERRIMACK
INVENTORY - NOMINATION FORM	FOR NPS USE ONLY
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