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OMB No. 1024-0018

United States Department of the Interior National Park Service

National Register of Historic Places Registration Form

CEP 2 9 1989

NA KUMAL RECEDER

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in *Guidelines* for *Completing National Register Forms* (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property			· · · · · · · · · · · · · · · · · · ·
historic name Bridge No. 12			
other names/site number Bullard	Creek Bridge		
	<u></u>		
2. Location	D 11 1 0		I not for publication 11/4
	ver Bullard Cre		not for publication N/A
city, town Hay Creek Twp. state Minnesota code	MN county	Goodhue Code	049 zip code 55066
State minicoocti Code	County	0000mac 0000	
3. Classification			
Ownership of Property	Category of Property	ory of Property Number of Resources within Property	
private	building(s)	Contributing	Noncontributing
x public-local	district		buildings
public-State	site		sites
public-Federal	X structure	1	structures
	object		objects
		11	Total
Name of related multiple property listing	; :	Number of con	tributing resources previously
Iron & Steel Bridges in Min	<u>nesota</u>	listed in the Na	tional Register0
A State/Endered Agency Contilient			
4. State/Federal Agency Certificat			
	s does not meet th chabal M. Archabal		
State or Federal agency and bureau M		ical Society	· · · · · · · · · · · · · · · · · · ·
In my opinion, the property meets	does not meet th	e National Register criteria.	e continuation sheet.
Signature of commenting or other official			Date
State or Federal agency and bureau			
5. National Park Service Certificat	tion	······································	
I, hereby, certify that this property is:			in the
 Dentered in the National Register. See continuation sheet. determined eligible for the National Register. See continuation sheet. determined not eligible for the 	Allan	nj Jujun	11/6/89
National Register.			
conter, (explain:)		/	
	T	Signature of the Keeper	Date of Action

Current Functions (enter categories from instructions) Transportation: road-related (vehicular		
Materials (enter categories from instructions)		
foundation (Substructure) Concrete walls		
roof		

Describe present and historic physical appearance.

Bridge No. 12 is a steel, single-span, riveted Warren (with verticals) pony truss. It carries township road 43 over Bullard Creek. Its overall length is 63 feet and its overall width is 16 feet. All parts of the superstructure--upper and lower chords, verticals and diagonals--consist of paired angle sections riveted together. (Such a design is discussed in an engineering text published in 1908.) The floor system, above the lower chord, is connected to the superstructure with floor beams riveted, via angle sections, to gusset plates on the low ends of the verticals. The floor consists of concrete slabs on I-beam stringers, which rest on angle lugs riveted to the webs of plate girder floor beams. The bridge rests on a substructure of poured concrete abutments with wingwalls. The movable end is not visible.

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8. Statement of Significance			
Certifying official has considered the significance of this	property in X states		
Applicable National Register Criteria XA B			
Criteria Considerations (Exceptions)]c []d	E F G	
Areas of Significance (enter categories from instructions) Engineering		Period of Significance 1908 - 1910	Significant Dates
Transportation			
		Cultural Affiliation	
Significant Person N/A		Architect/Builder Engineer: Wolff, Louis Builder: Glardon, Will	

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

Bridge No. 12 is eligible for the National Register under Criterion C as a representative of a type of bridge (pony truss) commonly used to span narrow obstacles in the early twentieth century. With its chord and web components all consisting of paired angle sections riveted together, it reflects a design recommended in an engineering text published in the same year as its construction. It is also eligible under Criterion A as a product of the few years at the end of the first decade of the century, when the state government first attempted standardization of the design and building of bridges, through financial aid rather than legislation. The bridge is also a product of the combined efforts of a prominent consulting engineer in St. Paul, a large iron and steel fabrication firm in Minneapolis, and a Red Wing businessman with diverse activities. This bridge is being nominated as part of the "Iron and Steel Bridges in Minnesota" Multiple Property Nomination. The bridge has good integrity.

After deciding in late 1907 to have a new bridge erected at this spot, the Goodhue County Commissioners opened bids, most for steel spans and a few proposals for concrete bridges, on 8 Jan 1908. The commissioners rejected all the bids. Four months later, Louis P. Wolff, a civil engineer from St. Paul and a partner in the firm of Loweth & Wolff, spoke at a commissioners' meeting, presenting a plan for a steel and concrete bridge complying with Minnesota Highway Commission rules and regulations. If such a bridge were built, the state would allow one-third of its road and bridge appropriations to Goodhue County to be spent on this bridge. The commissioners approved of this idea and voted to pay Wolff \$100 for plans and blueprints. The county requested new bids for the bridge's construction and in mid-June selected William P. Glardon, who owned a draying and transfer business as well as a coal and lumber dealership in Red Wing, as contractor. He in turn selected the Minneapolis Steel and Machinery Company as fabricator. At the commissioners' meeting of 22 Oct. 1908, L. P. Wolff testified that the bridge was satisfactorily completed.

9. Major Bibliographical References		
"MNDOT Structure Inventory," for Br. 12, 1983.		
Franklyn Curtiss-Wedge (ed.), <u>History of Dakot</u> H.C. Cooper, Jr., &Co., 1910), pp 1017-1018	a and Goodhue Counties, Minnesota (Chicag	
Bridge plans, Goodhue County Engineer's office	•	
"Commissioners Record, Goodhue County," vol. 7	, pp. 564-565, 593-594, 601- 602, 620.	
Milo S. Ketchum, <u>The Design of Highway Bridges</u> Publishing Co., 1908), pp. 199-203.	(New York: The Engineering News	
	See continuation sheet	
Previous documentation on file (NPS): preliminary determination of individual listing (36 CFR 67)	Primary location of additional data:	
has been requested	X State historic preservation office	
previously listed in the National Register	Other State agency.	
previously determined eligible by the National Register	Federal agency	
designated a National Historic Landmark	Local government	
recorded by Historic American Buildings		
Survey #		
recorded by Historic American Engineering Record #	Specify repository:	
10. Geographical Data		
Acreage of propertyLess than 1 acre	······································	
holdage of property		
UTM References A 1 5 5 4 4 5 9 0 4 9 3 2 0 2 0 Zone Easting Northing	B L L L L L L L L L L L L L L L L L L L	
	See continuation sheet	
Verbal Boundary Description		
The nominated property consists of a rectangle verticies coincide with the outside corners of brïdge, and includes only bridge superstructur	the bridge abutments at each end of the	
	See continuation sheet	
Boundary Justification		
Because the bridge is located on a public road	, there are no legal boundary lines for t	
ends of the bridge. Therefore, these boundari superstructure and substructure of the bridge	es are drawn to encompass only the	
	See continuation sheet	
11. Form Prepared By		
name/title Dale Martin, Historian		
organization <u>Renewable Technologies</u> , Inc.	date July, 1988	
street & numberP. O. Box 4113	telephone (406) 782-2386	
city or townButte		

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