United States Department of the Interior National Park Service

National Register of Historic Places Registration Form

SEP 2 9 1989

MARGARIA EDCEOTER

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.

(Form 10-900a). Type all entries.			
1. Name of Property			
historic name Bridge No. 12			
other names/site number Bullard	d Creek Bridge		
2. Location			
	over Bullard Creek	<u></u>	not for publication N/A
city, town Hay Creek Twp.			vicinity
state Minnesota code	MN county Goodhue	<u>code</u> 049	zip code 55066
		<u> </u>	
3. Classification	Colores of Breeze	Mark and Danasan	a vilhia Danash
Ownership of Property	Category of Property	Number of Resource	· · ·
private	building(s) district	Contributing I	Noncontributing
x public-local public-State	site		buildings
public-State	X structure	1 -	sites
public-rederal	object	***************************************	structures
		1	objects Total
Name of related multiple property listing	00.	Number of contribu	ting resources previously
Iron & Steel Bridges in Mir			al Register0
		iisted iii tile Mattolia	ar riegister
4. State/Federal Agency Certification	ation		
	Achabal in M. Archabal rion Officer		9/22/89 Date
State Historic Preservat State or Federal agency and bureau M		iotx	
State or rederal agency and bureau	ilinesota Historicar Soci	LECY	
'In my opinion, the property mee	ts does not meet the National R	legister criteria. 🗌 See con	itinuation sheet.
Signature of commenting or other official	ıl		Date
State or Federal agency and bureau			
5. National Park Service Certifica	ation		
I, hereby, certify that this property is:		Enter of in	the
Dentered in the National Register.	$\sim 1.$	y 🌬 is is	
See continuation sheet.	Jelmen Jage	w	11/6/89
determined eligible for the National		1	
Register. See continuation sheet.			
determined not eligible for the			
National Register.			
removed from the National Registe			
other, (explain:)			
	- Signature of	of the Keeper	Date of Action

6. Function or Use						
Historic Functions (enter categories from instructions)	Current Functions (enter categories from instructions)					
Transportation: road-related (vehicular)	Transportation: road-related (vehicular					
7. Description						
Architectural Classification (enter categories from Instructions)	Materials (enter categories from instructions)					
	foundation (Substructure) Concrete					
Other: Warren pony truss	walls					
	roof					
	other (Superstructure) Steel					

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.

8. Statement of Significance									
Certifying official has considered the		nce of tationall	• •	erty in x statev		o other			
Applicable National Register Criteria	XA	□в	хc						
Criteria Considerations (Exceptions)	□ A	□в	□с	□D	□E	□F	□G		
Areas of Significance (enter categorie Engineering	s from i	nstructio	ons)		Period (ficance 3 - 1910		Significant Dates
Transportation								_	
								 -	
					Cultural	Affiliati N/A	ion		
							<u></u>		
Significant Person N/A					Archited Engir	:VBuilde neer :	er Wolff, Loui	s P.	
					Buil0		Glardon. Wi		Р.
					 		·····		

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.

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See continuation	טוום ווט	σι

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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 (Chicago:
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) has been requested previously listed in the National Register	Primary location of additional data: State historic preservation office Other State agency.
previously determined eligible by the National Register	Federal agency
designated a National Historic Landmark recorded by Historic American Buildings	Local government University
Survey #	Other
recorded by Historic American Engineering Record #	Specify repository:
10. Geographical Data Acreage of property Less than 1 acre	
Acreage of property	
UTM References A 1 5 5 4 4 5 9 0 4 9 3 2 0 2 0 Zone Easting Northing C	B
	See continuation sheet
Verbal Boundary Description	
The nominated property consists of a rectangle verticies coincide with the outside corners of bridge, and includes only bridge superstructure	the bridge abutments at each end of the
•	See continuation sheet
Boundary Justification	
Because the bridge is located on a public road ends of the bridge. Therefore, these boundari	, there are no legal boundary lines for the
superstructure and substructure of the bridge	
	See continuation sheet
11. Form Prepared By	
name/title Dale Martin, Historian	
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city or townButte	state <u>Montana</u> zip code <u>59702</u>

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