

STATEWIDE BRIDGE SURVEY INVENTORY FORM

MNDOT No.: 7423
 Historic Name: Swan River Bridge (B)
 Common Name:
 Owner: Itasca County
 Year Built: 1917 (B)
 Engineer: Lofberg Cement Works, Grand Rapids (B)
 Fabricator:
 Contractor: Lofberg Cement Works, Grand Rapids (B)

Location

County: Itasca
 City/Town: Unorganized township
 Legal Description: Township 55 Range 23W Section 32
 Crossing: Co. 446 over Swan River, .4 mi. s. of CSAH 10

Technical Data

Bridge Category: Reinforced-concrete arch (112)
 Overall Length x Width: 80' x 19'
 Main Span No./Type/Length: 1 rainbow-arch span, 50'
 Other Spans No./Type/Length: none

Significance

Local State x National
 Historical Context: Minnesota Concrete Bridges, 1890-1945
 Integrity: Excellent x Good Fair Poor
 No. of Resources within Property: 1 contributing structure

Summary Description

Swan River Bridge (7423) is located in rural Itasca County where it carries gravel Co. 446 over Swan River. It was constructed in 1917 by the Lofberg Cement Works (the firm of J.S. Lofberg, Grand Rapids) for Itasca County (B). The county requested bids for two types of bridges, steel and wood, and steel and concrete. Following a series of rejected bids, a Lofberg offer was accepted, with the bridge to be built for \$920, "according to the plans and specifications therefor as prepared by the [county] engineers" (B, Mar. 16). The work was completed by Aug. 1917 (B). Situated on a north-south axis, Swan River Bridge is a single-span, reinforced-concrete, Rainbow Arch bridge, with an overall length of 80', span length of 50', out-out width of 19', carrying a 17+1' roadway. There are no sidewalks; abutments are "U" type. The arches rising above the deck are the bridge's most visible feature, and although the bridge has all the characteristics of a patented Marsh Rainbow Arch, this could not be confirmed in county records. The slab deck is suspended from the arches by reinforced-concrete verticals and reinforced-concrete floor-beams. The bridge has Neoclassical stylistic elements, including abutment pilasters and cast-concrete balustrade railing. The railing has filled panels atop the abutments and open balustrade segments above the span. The open segments were cast in metal forms, as evidenced by surviving form marks. The bridge has suffered some spalling and exposed rebar, but retains design integrity.

Sources of Information (Reference to Above)

- A. Bridge 7423 Structure Inventory Sheet & related documents, Mn/DOT files, St. Paul.
- B. Itasca Co. Commissioners' Proceedings, Jan.-Oct. 1917, Vol. 6, Itasca Co. Courthouse, Grand Rapids.
- C.
- D.
- E.

Date of Survey: October 21, 1987

Surveyor: Robert M. Frame III

STATEWIDE BRIDGE SURVEY: PHOTOGRAPHIC RECORD FOR INDIVIDUAL BRIDGE

SURVEY PHOTOGRAPHS FOR BRIDGE No. 7423

No. Bridge No.	County	City /Township	Subject	Camera Facing
FROM CONTACT SHEET 09362 October 1987 Photographer: Robert M. Frame III				
1	7423	Itasca	T55N R23W unorg. [MnDOT number]	
2	7423	Itasca	T55N R23W unorg. North approach	S
3	7423	Itasca	T55N R23W unorg. North approach	S
4	7423	Itasca	T55N R23W unorg. North approach	S
5	7423	Itasca	T55N R23W unorg. South approach	N
6	7423	Itasca	T55N R23W unorg. East elevation	W
7	7423	Itasca	T55N R23W unorg. East elevation	SW
8	7423	Itasca	T55N R23W unorg. East elevation: arch detail	S
9	7423	Itasca	T55N R23W unorg. West elevation	SE
10	7423	Itasca	T55N R23W unorg. West elevation: north end	E
11	7423	Itasca	T55N R23W unorg. Arch detail	S
12	7423	Itasca	T55N R23W unorg. East railing: missing balustrade segment	NE
13	7423	Itasca	T55N R23W unorg. East railing: detail of cast balustrade	
14	7423	Itasca	T55N R23W unorg. East railing: detail of cast balustrade	



SUBSTRUCTURE NOTES

WASHING OUT UNDER ARCHES

SUPERSTRUCTURE NOTES

ARCH/BEAM/GIRDER/SLAB: RAINBOW ARCH

CONDITION/INTEGRITY: FAIR - SPALLING & WASHOUT - EXPOSED REBAR

RAILINGS: CASE BALUSTRADE PANELS AROUND ARCH; FILLED PANELS AT ENDS
1 BALUSTRADE PANEL MISSING - IN WATER BELOW BRIDGE

SIDEWALKS: NONE

AESTHETICS: NEO-CLASSICAL - SIMPLE

ADDITIONAL DATA: BALUSTRADE CENTERS MADE FROM METAL FORMS - NOTE MOLD
& SCREW MARKS

INITIALS "A.C.E." IN CONCRETE OF ONE BALUSTRADE PANEL SECTION - TOP OF RAIL

- THIS BRIDGE IDENTICAL TO L-4373 (RAINBOW) IN KITTSW CO

MINNESOTA REINFORCED-CONCRETE-BRIDGE FIELD-SURVEY WORKSHEET

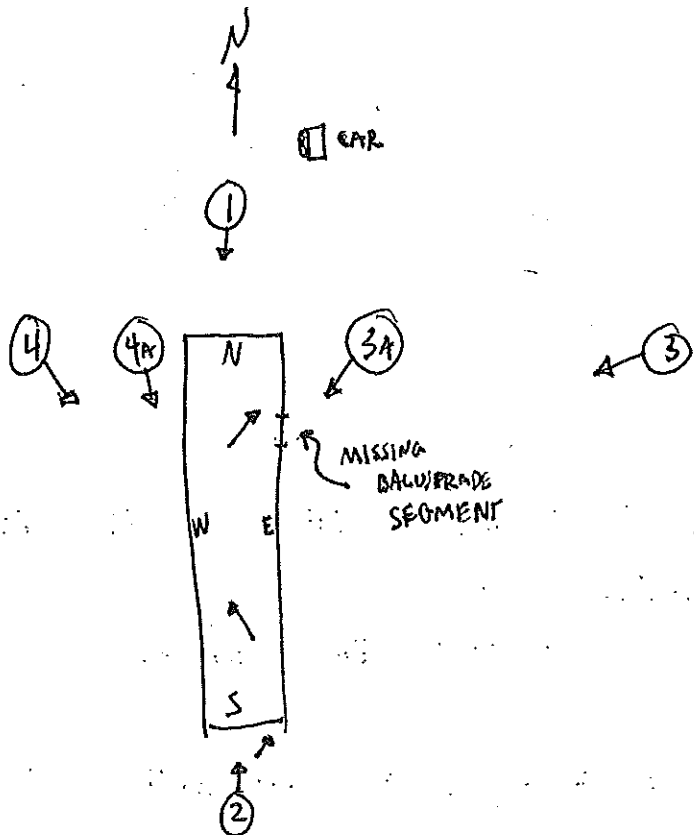
MNDOT BRIDGE NUMBER: 7423 . SURVEYOR: R.M. Frame III, OCTOBER 21, 1987
 COMMON NAME: ITASCA . HISTORIC NAME: SWAN RIVER BRIDGE *
 COUNTY: ITASCA . TOWNSHIP/~~SECTION~~: T 55 N R 23 W "UNORGANIZED"
 CARRIES: CNTY 446 OVER SWAN RIVER

BRIDGE PLATE DATA: NONE FOUND

* SO REFERRED IN CO. COMMISSIONER'S MINUTE) 10-4-17, VOL. 6, P. 543

TOTAL NUMBER OF SPANS:	<u>1</u>					
NUMBER OF MAIN SPANS:	<u>1</u>	TYPE: <u>RAINBOW</u>	105	106/206	109	<u>112</u> /212 spandrel OPEN FILLED
APPROACH SPANS:		TYPE: _____	105	106/206	109	112/212 spandrel OPEN FILLED
APPROACH SPANS:		TYPE: _____	105	106/206	109	112/212 spandrel OPEN FILLED
OTHER SPANS:		TYPE: _____	105	106/206	109	112/212 spandrel OPEN FILLED

101 concrete beam span	106 concrete deck-girder	112 concrete arch	108 rigid frame
105 concrete through-girder	206 continuous deck-girder	212 continuous arch	



MINNESOTA HISTORIC PROPERTIES INVENTORY FORM

LA-SVC-18

HISTORIC NAME: Encampment Forest Association Bridge COUNTY: Lake
 CURRENT NAME: " CITY/TWP.: Silver Creek Twp.
 LEGAL DESC.: T 52 R 10 ADDRESS: EFA - Hwy 61 7 miles
 1/4 1/4 1/4 Sec. 11 no. of Two Harbors

CLASSIFICATION:	CONDITION:	SIGNIFICANCE:	THEME/S:
Building _____	Excellent <u>y</u>	Local <u>X</u>	_____
Structure <u>X</u>	Good <u>X</u>	State _____	_____
Object _____	Fair _____	National _____	_____
District _____	Deteriorated _____		

OPEN TO THE PUBLIC: Yes _____ No X Restricted X PRESENT USE: Bridge
 VISIBLE FROM THE ROAD: Yes _____ No X
 OCCUPIED: Yes X No _____

DATE CONSTRUCTED: 1930's c. ORIGINAL USE: Bridge
 ORIGINAL OWNER: EFA ARCHITECT/BUILDER: EFA

OWNER'S NAME AND ADDRESS:	ACREAGE: Less than one acre _____
EFA	UTM REFERENCE: _____
LOCAL CONTACT/ORG.:	
Nick Duff member EFA	
FORM PREPARED BY:	
DATE: 8/9/84 Liz Holm	

Log structure with mesh wiring; "King post" type bridge
 wooden slats for walkway near lake shore

is eligible
 district?



07216