CITY, TOWN

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES

FOR NPS USE ONLY RECEIVED JAN 7 1976

STATE

NVENTORY	NOMINATION	FORM DA	TE ENTERED MA	<u>y 4</u> 1976
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HISTORIC	D. D. M.			
Bake AND/OR COMMON	r River Bridge			
I O C A TILON	T			
LOCATION STREET & NUMBER	WA 20			
	ar Route #20		NOT FOR PUBLICATION	
CITY, TOWN	ar Route #20		CONGRESSIONAL DISTR	ICT
Concre	te <u>x</u>	. VICINITY OF	#2 - Honorable Ll	
STATE Washin	gton	CODE 53	county Skagit	057
CLASSIFIC	ATION			
CATEGORY	OWNERSHIP	STATUS	PRES	ENT USE
DISTRICT	X_PUBLIC	OCCUPIED	AGRICULTURE	MUSEUM
BUILDING(S)	PRIVATE	UNOCCUPIED	COMMERCIAL	PARK
_XSTRUCTURE	_вотн	WORK IN PROGRESS	EDUCATIONAL	PRIVATE RESIDENCE
SITE	PUBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	RELIGIOUS
OBJECT	_IN PROCESS	YES: RESTRICTED	GOVERNMENT	SCIENTIFIC X_TRANSPORTATION
	BEING CONSIDERED	X YES: UNRESTRICTEDNO	INDUSTRIAL MILITARY	_OTHER:
OWNER OF	PROPERTY			<u></u>
NAME City o	f Concrete			
STREET & NUMBER	oncrete			
Town H	all, P. O. Box 39			
CITY, TOWN			STATE	00227
Concre		VICINITY OF	Washington	98237
LOCATION	OF LEGAL DESCR	RIPTION		
COURTHOUSE, REGISTRY OF DEEDS, E	^{ETC.} Skagit County Co	urthouse		
STREET & NUMBER				
CITY, TOWN			STATE	
77777	Mount Vernon		Washington	98273
1	TATION IN EXIST	ING SURVEYS		
None				
DATE				
DEPOSITORY FOR		FEDERAL	STATECOUNTYLOCAL	
SURVEY RECORDS				

_EXCELLENT

__GOOD

XFAIR

CONDITION

__DETERIORATED

UNEXPOSED

CHECK ONE

XUNALTERED X

CHECK ONE

X ORIGINAL SITE

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Baker River Bridge is an open spandrel reinforced concrete arch with a clear span of 185 feet. It is located within the city limits of Concrete, Washington about one-half mile north of the confluence of the Skagit and Baker Rivers. The bridge connects the townsite with an addition to the original plat developed across the river -- an area then known as Cement City.

The main arch consists of two parabolic ribs five by six feet in cross section that spring from the base of massive abutment piers anchored in bedrock on opposite shores of the river. These ribs are laterally connected by radial braces which are spaced at a fixed horizontal distance.

Two short approach spans carry the roadbed from the top of the piers to the edge of the canyon. Sturcturally the approaches are concrete T-beams disguised behind lightly reinforced three-centered arches that stiffen the edges of the deck.

These arches under the approach spans are a continuation of spandrel arcades above the main arch joining the range of columns that transfer loads from the roadbed to the arch itself. The arcades are somewhat of a structural falsehood in that the deck acts as a heavily reinforced T-beam spanning a perpendicular series of subpanel floor beams which in turn are supported directly on the spandrel posts. The arches run parallel to the central T-beam and are reinforced as a simple continuous girder that completes the structural grid of the floor system by supporting the deck slab along its edges. A second series of sub-panel beams run across the deck at intermediate points half way betweenthe spandrel posts. Both sets of these beams are extended with reinforced brackets beyond the line of the arcade to support the overhanging deck.

Non-structural parapet walls serve as guard rails along the top of the bridge. The roadbed is offset toward one side allowing enough room to provide a raised pedestrian walkway on the other. The road itself has a slight crown at the center to prevent rainwater from accumulating.

The design of the bridge included some simple architectural embellishments to dress up the bare structure. These are essentially neo-classical in spirit including such details as a capital and base for each spandrel column, shallow recessed panels on the piers and parapet and ogee curves on the supporting brackets. The spandrel arcades are apparently an attempt to suggest the traditional shapes of unreinforced classical masonry. There were originally eight decorated obelisks (possibly light standards) mounted on the parapet wall at the approaches. These were later broken off by logging trucks that had difficulty making the tight turn onto the bridge at either end. Also the sidewalk has been damaged and repaired, and the road has been repaved with asphalt several times.

There has been considerable spalling off of the surface concrete wherever it is exposed to the weather. In some places this has been grouted to prevent further deterioration. In addition, one of the abutments has been partially buried in fill to build up a level roadway parallel to the river passing under one of the approach spans.

8 SIGNIFICANCE

SPECIFIC DATES 1916 BUILDER/ARCHITECT								
1700-1799 1800-1899 X1900-	ARTCOMMERCECOMMUNICATIONS	XENGINEERING EXPLORATION/SETTLEMENT INDUSTRY INVENTION	MUSIC PHILOSOPHY POLITICS/GOVERNMENT	THEATER X_TRANSPORTATIONOTHER (SPECIFY)				
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PREHISTORIC 1400-1499	ARCHEOLOGY-PREHISTORICARCHEOLOGY-HISTORIC	COMMUNITY PLANNINGCONSERVATION	LANDSCAPE ARCHITECTURE LAW	RELIGION SCIENCE				
PERIOD		REAS OF SIGNIFICANCE CH						

STATEMENT OF SIGNIFICANCE

Built in 1916, the Baker River Bridge is an early example of the use of a long span reinforced concrete arch in highway bridge construction. Although at the time it was not a unique engineering achievement in terms of its structural principals or its total unsupported span, it represents the growing recognition of reinforced concrete as an alternative material to steel or heavy timber construction. Concrete reinforcement technology was relatively new when the design for the Baker River Bridge was proposed by the engineer, and its use in this case demonstrates the growing acceptance in the Pacific Northwest.

In 1914 the only access to the upper Skagit Valley was a wooden truss bridge across the Baker River in the City of Concrete. Late in December of that year, A. L. Strong, the County Engineer, condemned the bridge as rotten and unsafe. Testing it with an auger he determined that critical structural members were "punk" and the bridge was beyond repair. J. W. Bowerman, a Seattle consultant, was hired to study the situation. The old timbers were immediately shored up to temporarily strengthen the bridge while the question of a more permanent solution was being considered -- including the problem of financing a replacement. Bowerman was commissioned to do a comparative cost analysis of building a new bridge with concrete versus the cost of building it in steel. Although the engineer reported that a steel bridge would be slightly less expensive, two local concrete manufacturers responded by offering to donate cement for the project. This changed the economics of the problem sufficiently to favor the proposal for a bridge that would be "the first of its kind in the county" as it was announced on the front page of the Concrete Herald.

Preliminary plans called for two arches and a center pier, however this idea was abandoned because of the risk of causing log jams when spring floods turned the Baker River into a "raging canyon". The bridge was to be located a short distance upriver from the old crossing at a point where the bedrock of the canyon wall was suitable for the foundation of the abutments. This location allowed a design configuration that would eliminate the existing steep grade on the short section of road from the bridge into town.

The County Commissioners voted to approve construction in April of 1916, and the contract was let in May to J. R. Wood of Seattle. Two months later construction began on falsework for the arch. After 37 days the forms were completed and the contractor began to pour concrete. When this had cured, and the falsework was removed on October 28, the arch settled only $\frac{1}{4}$ inch under its own deadweight -- far less than expected. Formwork for the superstructure was carried directly on the unsupported arch as construction continued, but soon progress was hindered by

9 MAJOR BIBLIOGRAPHICAL REFERENCES

None

NAME / TITLE Jacob Thomas and Otto M. Walberg (Skagit County Planning Department) ORGANIZATION Wasington State Parks and Recreation Commission P. O. Box 1128 CITY OR TOWN Olympia STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL STATE STATE LOCAL STATE LOCAL STATE LOCAL STATE STAT				* ,
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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

FOR NPS USE ONLY
RECEIVED JAN 7 1976

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DATE ENTERED

CONTINUATION SHEET

ITEM NUMBER 8

PAGE 2

freezing weather. After a series of delays the bridge was completed January 13, 1917.

Work on the bridge received considerable press coverage in the <u>Concrete Herald</u> which published accounts of the progress in minute detail. A donation of 1,500 barrels of cement by the Superior and Washington Portland Cement Companies was greatfully acknowledged, and it was announced that the bridge was "one of the longest single span concrete structures in the West" -- a true enough claim that failed to mention it was little more than 2/3 the length of similar arches in Spokane (Monroe Street Bridge - 281 feet, 1911) and California (Pit River Bridge - 242 feet, 1915). There is no mention in the newspaper of a dedication ceremony which might be expected at the opening of such a bridge to traffic, but at the time the population was distracted by the growing American involvement in World War One.

Manufacturing Portland cement has been an industrial activity that has made a major contribution to the growth and development of the City of Concrete. The Baker River Bridge is an early showpiece of the technological applications of this material which was for many years the only connection between the east and west parts of town.

1. SITE I.D. NO	Γ	HAER INVI			ENTORY			Historic American Engineering Record Department of the Interior, Washington, D.C.					
2. INDUSTRIAL CLASSIFICATION					3. PRIORITY	Y		FDEMOLITIO	N?	☐ YES	□NO	M UNKNOWN	l
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Beverly N. Baynes					j H <i>i</i>	AER						March 1,	1976
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the West" when it was built.						J			· ·	•	•		(CONT OVER)
18. ORIGINAL USE			DI	RESEN	TUCE					AD ADTIVE U	\r		(CONTOVER)
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POP. OR MORE? YES NO NO								□ UNK					INDEXER
24. LOCATED IN AN HISTORIC DISTRICT? ☐ YES ■ NO		NAN	иE							DIST	RICT I.D. NO		

DESCRIPTION (CONTINUED)

Manufacturing Portland cement has been an industrial activity that has made a major contribution to the growth and development of the City of Concrete. The Baker River Bridge is an early showpiece of the technological applications of this material which was for many years the only connection between the east and west parts of town.

REFERENCES (CONTINUED)

