1. SITE I.D. NO		NAER INV	ENTORY	Heritag	U.S. Department of the Interior Heritage Conservation and Recreation Service			
2. INDUSTRIAL CLASSIFICATION		3. PRIORITY	4. DANGER OF DEMOLITION	? 🖸 YES	NO NO			
Bridges, Trestles, and Aquedu	icts	1	(SPECIFT INREAT)	· · · · · · · · · · · · · · · · · · ·				
ARCH: steel		5. DATE	6. GOVT SOURCE OF THREAT	тОМ				
		71911-12	7. OWNER/ADMIN					
			City of Seat	tle				
8. NAME(S) OF STRUCTURE			9. OWNER'S ADDRESS					
12th Avenue South over Dearbo	orn Street		Engineering Seattle Muni Seattle, Was	Department cipal Building, hington 98104	Room 704			
10. STATE W A COUNTY NAME COUNTY 0 3 3 King	CITY/VICINITY Seattle	CONG. DIST. 03	STATE COUNTY	OUNTY NAME		CONG. DIST.		
11. SITE ADDRESS (STREET & NO)			12. EXISTING	NHL HABS	HAER-I	HAER NPS CL6		
			GUIVEIG		COUNTY			
			13. SPECIAL FEATURES (DES	CRIBE BELOW)				
			INTERIOR INTACT		IOR INTACT	ENVIRONS INTACT		
14. UTM ZONE EASTING NOR 1 0 5 5 1 4 2 0 5	17 HING 2 7 1 4 1 0	SIGN SCALE	X 1:24 1:62.5	QU/	ME <u>Seattle</u>	e South, Washington		
UTM ZONE EASTING NOR	THING	SIGN SCALE	1:24 1:62.5	011/				
			OTHER	NAI	ME			
15. CONDITION. 70 EXCELLENT 71 GOOD	D 72 🗖 FAIR 73	DETERIORATED	74 RUINS 75 0	UNEXPOSED 76 🗖 AL1	rered ఓ 🗖 ర	DESTROYED 85 DEMOLISHED		
16. INVENTORIED BY		AFFILIATION			DATE			
Lisa Soderberg HAE			ashington State	Bridge Invento	ny 00	ctober 1980		
17. DESCRIPTION AND BACKGROUND HISTORY, INCLUDING	CONSTRUCTION DATE(S), HISTO	DRICAL DATE(S), PHYSICA	L DIMENSIONS.					

MATERIALS, EXTANT EQUIPMENT, AND IMPORTANT BUILDERS, ENGINEERS, ETC.

In 1911, the Dearborn regrading project cut through Beacon Hill eliminating the barrier between the commercial and residential settlement on Puget Sound and the Ranier Valley dwellers in the vicinity of Lake Washington. The route to Ranier Valley cut away 112 feet at Twelfth Avenue South reducing the Dearborn Street grade from 19% to 3%. The long-sought "less than 5% thoroughfare from salt to fresh water" had been achieved.

A steel arch bridge was constructed in 1911 across the cut at Dearborn Street, 110 feet above the grade, reconnecting settlements on Beacon Hill that had been isolated by the regrading efforts. This spandrel braced arch was one of the first permanent steel structures to be built by the Seattle Engineering Department. It consists of a 171 foot arch with a rise of 60 feet, a 94 foot cantilever span at the south and a 96 foot cantilever span at the north. The web trussing in the steel structure is of the Pratt type. Originally, the arch was flanked by timber approach spans.

18. ORIGINAL USE vehicular		vehicular			ADAPTIVE USE	
19.REFERENCES—HISTORICAL REFERENCES Seattle Engineering D Elizabeth Shellin Atl J.A.L. Waddell, <u>Bridg</u> Myra L. Phelps, <u>Public</u>	ES PERSONAL CONTACTS AND# partment files. y, "Landmark Nomi <u>e Engineering</u> , 2 c Works in Seattl	orother nation Form: 12 Vols., (New York e, (Seattle, 197	2th Avenue So (, 1916), pp. (8), pp. 22,	uth over Dearbo 620-625. 36-39.	rn Street," 2 January	1980. (CONT OVER)
20. URBAN AREA 50,000 POP. OR MORE?	21. N W	22. PUBLIC ACCESSIBILITY	VES, LIMITED	YES, UNLIMITED		23. EDITOR
24. LOCATED IN AN HISTORIC DISTRICT?		NAME			DISTRICT I.D. NO	
THE B DED 1/20 HERS REGION						GPO 871 981

17. Description (continued)

At the time that the bridge was constructed, the regrading work had not been completed. As a result, a temporary inclined timber trestle was erected over the deck of the bridge so that the elevation of the bridge deck would be aligned with the roadway. Trolley lines were laid on the trestle and remained in service until a mudslide obliterated the timber structure in 1917. In 1924, six concrete bent approach spans were constructed to replace the original timber piles. At this time the trolley lines were replaced, and a concrete floor was built providing a 42-foot wide roadway.

In 1966-67 the alignment of the south approach was altered to allow for the construction of the I-90 and State Route 5 interchange. Originally the structure was built on a north-south alignment. However in 1966, three bents at the south end were removed and replaced by concrete piers that supported a curved roadway.

The highway engineers duplicated the decorative steel railings on the new approach span. Though the steel components are welded rather than riveted, the duplication of the ornamental motifs exemplifies a noble effort to retain a continuity with the past, and to meld the new with the old.

The 12th Avenue South Bridge is the oldest extant steel arch within the State. Of the early steel arches within Washington, it is the only spandrel-braced arch.

25. Photos and Sketch Map of Location

ABSTRACT



25. Photographs