



City of Seattle
Department of Community Development/Office of Urban Conservation

## Landmark Nomination Form

Name <u>Fremont Bridge</u>		Year Built_1917	
Common, present or historic)			
Street and Number Fremont Avenue North	over Lake Wasł	nington Canal	
Assessor's File No. <u>City Bridge Engineer'</u>	s File # 12		
Legal Description Plat Name	Plack	i na	
Legal Description Plat Name	DIOCK	Lot	
		8	
Present Owner <u>City of Seattle</u>	Present		
		water traffic	
Address			
Original Owner <u>City of Seattle</u>	Origina	Illea Same	
Original Owner	Origina	USE SAME	
Architect F.A. Rapp, City Bridge Engine A.H. Dimock, City Engineer; a	er undenBuilder	substructure: Pacific States	Constr,
A.H. Dimock, City Engineer; a	rchitectural	Co.   superstructure: US Steel Pro	duata Ca
Architect	nerngeon, crey	Tanheracincenter na areet blo	aucts Co

## Description: Present and original (if known) physical appearance and characteristics

Dwarfed by the Aurora Bridge to the east, the Fremont Bridge, its 1973 coat of orange paint faded to a dull coral, has been opening and closing its double leaf gates, more often than any other Seattle drawbridge since its erection in 1917. Three drawbridges were erected on the Lake Washington Ship Canal between 1917 and 1919, employing technology developed in Chicago in 1898 by Chicago city engineer John Erickson. The Ballard and University Bridges (originally the 15th Avenue Northeast Bridge and the Eastlake Bridge, respectively) measuring 218 feet each, between trunnions, are shorter in length than the 242-foot Fremont Bridge, but at 52 feet from the water line, they are 15 feet higher in closed position than the Fremont Bridge, and consequently are not opened and closed as fequently. The principle of the bascule bridge is that of a counterweight balancing the leaf of the bridge at a point called the trunnion, located in each of these bridges 13 feet behind the actual pivot of operation, creating a longer lever-arm in closed than in open position.

The cantilevered leaves of the Fremont Bridge are 108 feet each, the length from trunnion to anchor brackets 38 feet 6 inches. Counterweight pits of 13-foot depth are necessary only in this bridge of the three, due to its shorter height and greater span. Dead-load stresses are computed with the bridge is balanced on the trunnion; whereas the dead- and live-load stresses are assumed carried on the forward pivot.

The trusses of the draw-span are "of half-through type, with trusses having horizontal top chords and curved bottom chords." All structural steel joints are riveted. The mechanism of operation and the counterweight pits are housed in two concrete piers, each with two windowed towers. The southeast tower has been modernized, and a second story added, in 1960. The towers of the others,

Description: Present and original (if known) physical appearance and characteristics

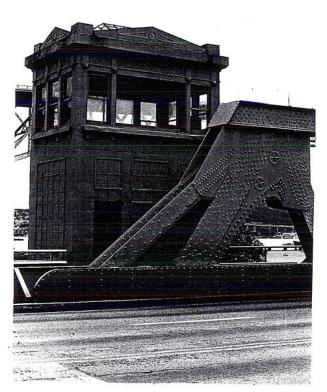
no longer in use, have been restored, their glass being replaced with plexiglass, in 1973. On the north bank, the Fremont side, industries crowd up to both sides of the abutments; and some storage space is utilized underneath. The south abutment rests in a more naturalistic setting, extending in a muddy path to the west and toward the West Lake Union houseboat community to the east.

## Statement of significance

When the Lake Washington SHip Canal was constructed, making possible the passage of ocean-going ships into Lakes Union and Washington, the creek which carried a small trickle of run-off from Lake Union into Salmon Bay was greatly enlarged. A dam regulated flow of water temporarily while the water levels were being altered during the course of construction of the Fremont cut. The Latona and Stoneway bridges which had formerly carried traffic on timber trestles from central Seattle to Fremont and Wallingford were no longer realistic in face of the anticipated increase of large water craft through the canal. The three draw-span bridges based on a Chicago model of 1989 were conceived as a set, introducing that technology to Seattle with the advent of ship canal traffic.

More than most bridges, the Fremont Bridge is embraced by members of the community it serves and is named for as a treasured landmark, to the extent that they petitioned the city in 1972 to allow the residents a voice in the selection of the bridge's color. The city presented the Fremont Community Council with a selection of 4 colors from which to choose: the utilitarian green typically given to the city's steel bridges, a deep blue, gold and the orange that was finally selected. The reopening of the bridge in its new garb was attended by enthusiastic Fremont residents also dressed in orange.

Photographs:









Submitted by: Elizabeth Shellin Atly

Address Office of Urban Conservation

Phone 206-625-4501

Date January 2, 1980

Reviewed \_

Historic Preservation Officer

\_Date 1 1/20 n 19 78