

1. SITE I.D. NO

Grid for site ID number

HAER INVENTORY

Department of the Interior, Washington, D.C. 20240

2. INDUSTRIAL CLASSIFICATION

Bridges, Trestles, and Aqueducts

3. PRIORITY

4. DANGER OF DEMOLITION? (SPECIFY THREAT)

YES NO UNKNOWN

Tunnel

9 8 0 4 1940

6. GOVT SOURCE OF THREAT

OWNER ADMIN grid

90/24 090000038700

7. OWNER/ADMIN

State Department of Transportation

8. NAME(S) OF STRUCTURE

Mount Baker Ridge Tunnel

9. OWNER'S ADDRESS

Highway Admin. Building, KF-01
Olympia, WA 98504

10. STATE COUNTY

WA 033

COUNTY NAME

King

CITY/VICINITY

Seattle

CONG. DIST.

03

STATE COUNTY

COUNTY NAME

CITY/VICINITY

CONG. DIST.

11. SITE ADDRESS (STREET & NO)

8 miles east of junction SR 900

12. EXISTING SURVEYS

NR NHL HABS HAER-I HAER NPS CL6
 CONF STATE COUNTY LOCAL OTHER DEL

13. SPECIAL FEATURES (DESCRIBE BELOW)

INTERIOR INTACT EXTERIOR INTACT ENVIRONS INTACT

14. UTM ZONE EASTING NORTHING SIGN

g 10 553590 5270780
h 10 553140 5270780

SCALE

1:24 1:62.5

QUAD NAME Seattle South

SCALE

1:24 1:62.5

QUAD NAME Seattle South

15. CONDITION. 70 EXCELLENT 71 GOOD 72 FAIR 73 DETERIORATED 74 RUINS 75 UNEXPOSED 76 ALTERED 78 DESTROYED 85 DEMOLISHED

16. INVENTORIED BY

Lisa Soderberg

AFFILIATION

HAER/Washington State Bridge Inventory

DATE

April 1980

17. DESCRIPTION AND BACKGROUND HISTORY, INCLUDING CONSTRUCTION DATE(S), HISTORICAL DATE(S), PHYSICAL DIMENSIONS, MATERIALS, EXTANT EQUIPMENT, AND IMPORTANT BUILDERS, ENGINEERS, ETC.

In 1940, the state highway department provided a direct link between the pontoon bridge and the city business center by penetrating the Mount Baker Ridge which rises to an elevation of 260 feet above the west shore of Lake Washington. The two identical tunnels are 1,466 feet long. They each carry a 24 foot wide roadway which enables one-way traffic to travel in each direction. A single three foot sidewalk enables pedestrians to pass through one tunnel.

The tunnels, which are spaced 60 feet apart on centers, were driven through tight, heavy blue clay of glacial origin, a material that is uncommon in the history of western tunnel driving. Because no rock was encountered in either tunnel, there was no need for drilling or for explosives. However, the soft material exerted a tremendous pressure on the structure which caused difficult construction problems, necessitating the installation of heavy timbers to support the overburden of the earth until the permanent concrete lining could be placed. The pioneer drifts were advanced by (CONT OVER)

18. ORIGINAL USE

Tunnel

PRESENT USE

Tunnel

ADAPTIVE USE

19. REFERENCES—HISTORICAL REFERENCES, PERSONAL CONTACTS, AND/OR OTHER

"Twin Tunnels Driven Through Clay for Lake Washington Bridge Project," Western Construction News, July 1940, p. 246.

State Department of Transportation files

"Lake Washington Bridge," pamphlet.

(CONT OVER)

20. URBAN AREA 50,000 POP. OR MORE? YES NO

21. NPS REGION

NW

22. PUBLIC ACCESSIBILITY

YES, LIMITED YES, UNLIMITED
 NO UNKNOWN

23. EDITOR

INDEXER

24. LOCATED IN AN HISTORIC DISTRICT?

YES NO NAME

DISTRICT I.D. NO

Grid for district ID number

