King County

WHY REPLACE THE EXISTING BARING BRIDGE?

Sole Access for Residents

The bridge provides sole access to approx. 170 properties, including 40+ residences.

The alternative route is a washed-out Forest Service road that remains closed due to unstable conditions.

At risk of being closed due to age/condition - major impact to the Baring community

Safety Concerns

The existing bridge is weight and speed restricted.

The existing bridge is structurally deficient.

Many components of the bridge are continuing to age.

The existing bridge scores a Sufficiency Rating of 10.43 out of 100 (*National Bridge Inspection Standards*).

Extensive Maintenance & Repairs

The existing bridge towers are 89 years old.

The timber and steel cable elements are continuing to age.

Frequent and major repairs come at a high cost.

Key elements - towers - are worn out, and it is not feasible to repair or refurbish.

1976 - Two new cables added and North Approach replaced

1995 - New floor-beams, decking, concrete anchors, high-strength hangers, and new bridge rail system added

2010 - A column and foundation sills were replaced on North Tower

2017 - New main span stringers and decking added. Retrofits made to floor-beams, South Tower, and Pier 3 mudsill

A permanent solution is necessary.

CONTACT

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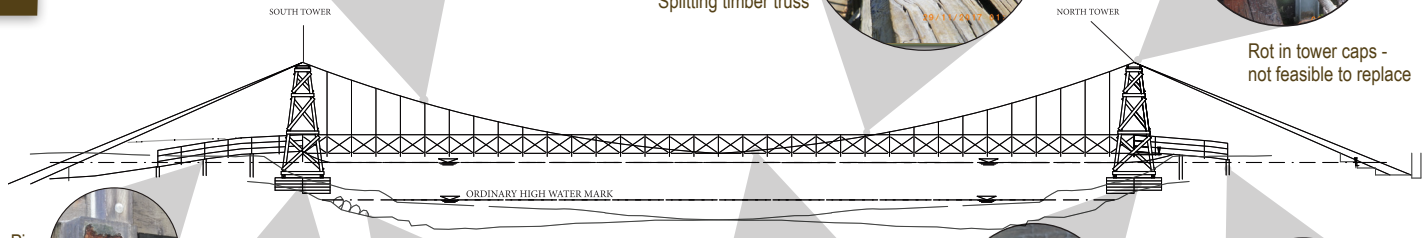
www.kingcounty.gov/BaringBridge

Hangers need readjustment. Cables are rusting.

Splitting timber truss

Rot in tower caps - not feasible to replace



Rot in Pier Cap 2

Rot at the south tower

Growing scour pocket in the sackrete wall.

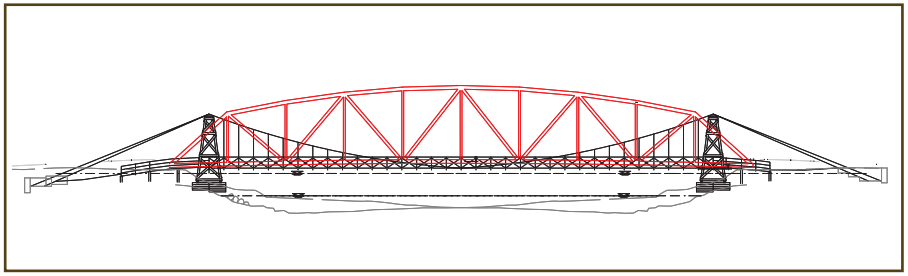
Sag in bridge deck

Rot in tower sills and the retaining wall

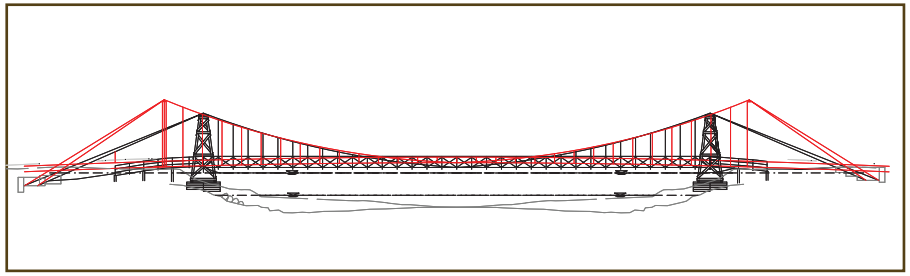
Rot in Pier Cap 7

BRIDGE OPTIONS

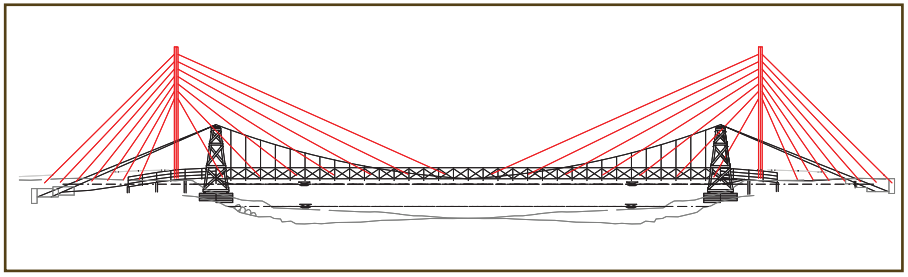
OPTION A - STEEL TRUSS



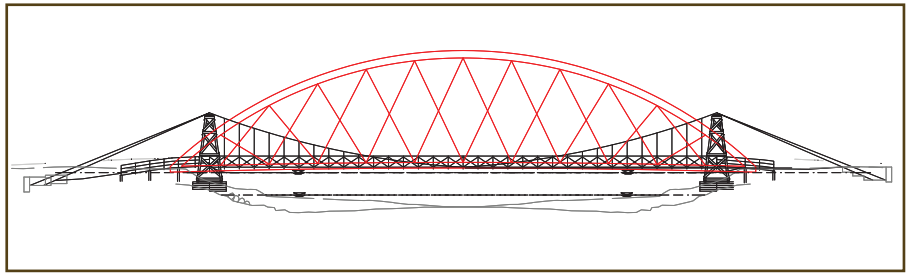
OPTION B - SUSPENSION



OPTION C - TWO TOWER CABLE STAYED



OPTION D - STEEL NETWORK TIED ARCH



Note: Existing bridge shown in the background is for comparison to height of the proposed bridge.