



Hood Canal Bridge West-Half Retrofit and East-Half Replacement Project

Anchors

Anchors are large, concrete, bowl-like structures that are connected by anchor cables to the bridge. They are the structures which keep the bridge from moving side to side. Anchors are constructed on land away from the bridge then transferred to water and floated to the bridge. They will be filled with water and gravel and slowly lowered to the bottom of Hood Canal using global positioning units to guide the anchor to the correct location.

There will be 20 new anchors constructed for the Hood Canal Bridge. Each anchor weighs more than 1000 tons, equivalent to about 167 full grown male African elephants.



*Tug boats tow anchors to the bridge to be set on the Canal floor.
Approx. 1980*

East-Half Anchors

Diameter	Number	Height	Weight	Total weight
46 feet	12 anchors	27 feet	995 tons	11,940 tons
56 feet	7 anchors	27 feet	1,328 tons	9,296 tons
60 feet	1 anchor	27 feet	1,385 tons	1,385 tons
TOTAL	20 anchors			22,621 tons

West-Half Anchors

Diameter	Number	Height	Weight	Total weight
46 feet	24 anchors	27 feet	1,054 tons	25,296 tons
46 feet	2 anchors	27 feet	1,373 tons	2,746 tons
TOTAL	26 anchors			28,042 tons



Cable blocks lower an anchor after the ballast (crushed rock materials used to stabilize the anchor) is placed inside. Approx. 1980