1. SITE I.D. NO	HAER INVENTORY					Hi De	Historic American Engineering Record Department of the Interior, Washington, D.C. 20240					
2. INDUSTRIAL CLASSIFICATION					3. PRIORITY		F DEMOLITION	1?	X YES	□ NO	UNKNOWN	
Bridges, Trestles, and Aqueducts				ļ	1	(SPECIFY						
Suspension: steel	7	6	1	0	5. DATE 1932/57		RCE OF THREA	T T	1WO	IER	ADMIN	
#503/26 503000278300		l					Departme	ent of Tr	ansport	ation		
8. NAME(S) OF STRUCTURE Yale Bridge							y Admin	istration ington 9		ng		•
COUNTY 0 1 1 Clark Y	vicin ale	ITY			CONG. DIST. 0 4	STATE COUNTY		COUNTY NAME		CITY/VICINITY	Υ	CONG. DIST.
11. SITE ADDRESS (STREET & NO) Crossing: Lewis River					•	12. EXISTING SURVEYS	□NR	□NHL □CONF	□HABS □STATE	□HAER—I □COUNTY	_	NPS CL6
19.8 North Junction State Route 50	2						EATURES (DES	SCRIBE BELOW)	EXTERIO	R INTACT		ENVIRONS INTACT
14. UTM ZONE EASTING NORTHING 1 0 5 4 8 6 8 0 5 0 8	9	7 0	0		SIGN SCALE	☐ 1:24 ☐ OTHER_	1:62.5		QUAE NAME	Yacolt,	Washingto	on
UTM ZONE EASTING NORTHING					SIGN SCALE	☐ 1:24 ☐ OTHER_	1:62.5		QUAE NAME			
15 CONDITION 70 EXCELLENT 71 GOOD	72 🔲	FAIR		73.	DETERIORATED	74 RUINS	75 🔲	UNEXPOSED ,	76 ☐ ALTE		DESTROYED	85 ☐DEMOLISHED
16. INVENTORIED BY Lisa Soderberg					HAFR/Wa	shinato	n State	Bridge I	nventor	, ^{DA}	August 197	79
In 1932, Clark and Cowlitz Corto replace a steel truss that had I water from the dam created a depth prerequisite for the construction of other, less conventional solutions	ngine unty een of of t to	jo de 90 he for	int int mol fee tra ge	ly ish t a dit the	constructed ed as a resu t the bridge ional type o river.	a short lt of t site, f highw	-spanned he const it made ay bridg	truction it unusu ge. Cons	of the Aally did	Ariel Dam ficult t , it was	n. Because to build fa necessary	e the back- llsework, a to turn to
Originally, a 532 foot structu												
galvanized steel cables suspended water. The 20 panels of the steel In 1957 five 30 foot steel beam app	sti oroa	ffe ch	nin spa	g t ns v	russ are mad were added.	e up of	rolled	H sectio	ns, and	have a d	epth of 7	feet 6 inches
In order to simplify the erect	ion	of		e s		r of in	novative	<u>details</u>	Were de		The four	(CONTOVEN)
vehicular					cular				7.67.11 7172 00	_		
19. REFERENCES—HISTORICAL REFERENCES, PERSONAL CONTACT State Department of Transportation H.O. Blair, "Short-Span Suspension	Fil	es.	THER			Rope Ca	oles," <u>E</u>	Engineeri	ng News-	Record,	20 July 19	933, pp. 70-71
20. URBAN AREA 50,000 POP. OR MORE? YES XINO 21. NPS REGIONAL NO	33 3	22. P	UBLIC	ACCE	SSIBILITY Y	ES, LIMITED	¥YES, U				23	EDITOR INDEXER
24. LOCATED IN AN HISTORIC DISTRICT?		NAM	E						DISTR	ICT I.D. NO		8 8

Description (continued)

rope cables which were manufactured by the Hazard Wire Rope Company of Wilkes-Barre, Pennsylvania, were prestressed to 75 tons. The main stay and back stay cables which were attached to steel castings at the tops of the towers, were discontinuous at the towers. Fastenings were fitted to the castings with links and pins, and approximated the function of a swivel joint. This detail simplified erection, and avoided wear on the main cables, subsequently reducing the cost by permitting the use of smaller-sized cables.

Gravity anchorages were designed. To provide greater resistance to overturning, the base of the anchorages were

pyramid-shaped, and were keyed into the rock banks.

The bridge was designed by Harold H. Gilbert, and was built by the Gilpin Construction Company of Portland, Oregon. Although there are numerous examples of timber suspension bridges throughout the State, the Yale Bridge is the only example of a short-span steel suspension bridge. The visual impact of the form of the parabolic curve of the cable stretching between two towers, has an unrelenting, universal appeal. However, the short-span steel suspension bridge has remained rare, because cost factors have prevented it from competing with simple steel trusses, cantilevers, or arches for ordinary highway structures.





ABSTRACT					
HAER NO LC	TECH REPORT HIST REPORT	CONTEMP PHOTO	HIST PHOTO CONTEMP DRWG	HIST DRWG COLOR PLATE	PHOTOGRAM SW FILM