1. SITE I.D. NO				HAER IN	VENTORY	(Historic Am Department	erican Engin of the Interic	eering Keco r, Washingt	rd on, D.C.		•
2. INDUSTRIAL CLASSIFICATION Bridges Trestles and Age	inducts 7	6 0	3	3. PRIORITY 1	4. DANGER OF D (SPECIFY TH	DEMOLITION? REAT)	X YES	□ NO replaced				•
bridges, rescres, and Ad		0 0		5. DATE	6. GOVT SOURC	E OF THREAT	OV	VNER	ADMIN			
TRUSS: Steel				1909/59	2.00005500500						•	
County Designation Number:	: 223				Stevens	County	<u> </u>					
8. NAME(S) OF STRUCTURE Orient Bridge					9. OWNER'S ADD	_{DRESS} Works Direc	tor					
					Stevens	County Cou	thouse, E	Box 191				
Route 818 milepost 3.46 (CRP-418			00000	Colvill	e, Washingt	on 99114					
COUNTY 065 Stevens	Orien	t		DIST.	5 COUNTY	COUNTYNA	ME		, 	CONG. DIST.		
11. SITE ADDRESS (STREET & NO) Richardson Road	Crossina:	Kett	le R	iver	12. EXISTING SURVEYS							
			• - · ·		13. SPECIAL FEA		OW)					
S.T.R. 23 39N 36E						OR INTACT		IOR INTACT		ENVIRONS INTACT		
14. UTM ZONE EASTING	NORTHING			SIGN SC	ALE 1:24	1:62.5	QU	AD				
UTM ZONE EASTING	54131	0 8	_0_	SIGN SCA		П 1:62.5	NA	ME		······		
							QU NA	AD ME				
15 CONDITION 70 EXCELLENT 71	GOOD 72	FAIR	73	DETERIORATED	74 🗖 RUINS	75 🗖 UNEXPOSE	D 76 🗖 AL	TERED 82	DESTROYED	85 DEMOLISHED		
16. INVENTORIED BY					on Washington	State Bride	- Inventor		entember	1070		
17. DESCRIPTION AND BACKGROUND HISTORY, INCL	UDING CONSTRUCTION	ON DATE(S	S). HISTO	RICAL DATE(S), PHY	SICAL DIMENSIONS,						-	
MATERIALS, EXTANT EQUIPMENT, AND IMPORTAN	NT BUILDERS. ENGINE		he e	ngineer k	ı IM Manninc	n July 1909 rected a	, the t.u. 180 foot	ninconnec	ted Parke	ng company of ar steel trus	s	
across the Kettle River a	t Orient.	This	thro	ugh truss	replaced th	nree deterio	rated time	priconnec per Howe a	nd King 1	russes which	1	
were built across the rive	er in 1908.	The	Ori	ent Bridge	was one of	f three brid	ges that t	the Sheely	Contract	ing Company		
constructed over the Kett	le River in	1909	at	a cost of	\$11,500.			1		7 6		
The 240 foot bridge a	also includ n 49 inch m	les tw	IO WO	od pile ap	proach spar	ns, and has	a planked od with co	timber ro	adway, I: nd aro la	o./ Teet Wide	ed.	
Of the three bridges built	t in 1909.	the O	u su Drien	t Bridge i	is the longe	est span, an	d the only	/ one with	its oric	inal piers	.eu.	
completely intact.	c in 1909,	one e		o bi laga i	o one ronge					,		
In contrast to the u	niform dept	h of	the	parallel c	hords of th	ne basic Pra	tt truss,	the polyg	onal top	chord of thi	S	
Parker truss which reaches	<u>s its great</u>	<u>est</u> h	PRESEN	<u>t at the c</u> TUSE	<u>enter pane</u>	l, reflects	ADAPTIVE	<u>ase in ben</u> ^{USE}	ding mome	ent (conform		
Bridge/vehicular			Brid	ge/vehicul	ar			- 		and the second sec		
19. REFERENCES—HISTORICAL REFERENCES. PERS Stevens County Bridge Fil Bridge Plate.	ONAL CONTACTS, AN	D/OR OTH	IER	•							-	
20 URBAN AREA 50.000	21. HCRS REGION	22. PUB	LIC ACC	ESSIBILITY	YES, LIMITED		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	23. ÉDITOR		
	NW						b			INDEXER		
24. LOCATED IN AN HISTORIC DISTRICT?	s 🖾 NO	NAME					DIS	TRICT I.D. NO			36	
FHR-8-260 1/79											i	



DESCRIPTION (CONTINUED) that occurs as one moves from the ends of the truss to the center. The use of the arched top chord increased the rigidity of the bridge, and consequently enabled the construction of longer spans. For example, the Orient Bridge is 30 feet longer than the maximum length customarily used for the basic Pratt truss.

It consists of ten 18 foot panels. The diagonals which are a pair of rectilinear eyebars, are counterbalanced in the four center panels with cylindrical rods.

Of the five existing pinconnected Parker trusses built before 1910, the Orient Bridge and the Curlew Bridge in

Ferry County are the least altered examples of this truss type within the State. Crossing the Kettle River in an environment very similar to the one in which it was built, the Orient Bridge remains virtually unaltered. It is significant as a representative of a truss type that was commonly used by engineers as an economical means of subduing nature's course.

ABSTRACT			Τ		Τ	Τ	Ι			Π		Τ									T		Τ			Τ		Τ		Τ		Τ	T	Τ		Τ				
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HAERN	10	L	0	TECH	REP	ORT	HIS	T RE	POR	Ť	C	ONT	EMI	PPH	OTC)	HIST	PHO	OTO		С	ONT	EMP	DRW	G	HI	IST D	RW	G		CC	LOF	R PL	ATE	P	PHOT	rogi	RAM	SW	FILM