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## Video documents rare bridge construction method in lowa

The Iowa River Greenbelt is one of the few remaining fragments of Iowa's old-growth woodland. The area is a secluded a haven for bald eagles and other native wildlife and a favorite retreat for canoeists and other non-native species.

To minimize the environmental impact of constructing the U.S. Highway 20 river valley crossing in Hardin County, the lowa DOT used a unique construction technique, called launching. At the time of construction the bridge was the first launched steel girder bridge in the country.



Iowa River Bridge. *Illustration courtesy of the Iowa* 

The bridge frame was constructed span by span in a launching pit behind one abutment, then rolled out over piers in the river valley. The bridge has five 302-foot spans supported on four con-

valley. The bridge has five, 302-foot spans supported on four concrete piers and two end abutments. Two 66-foot spans connect the bridge to the roadway approaches.

The bridge was extensively instrumented and its behavior documented during construction.

## Witness the construction yourself

Now an excellent, 32-minute VHS video of this fascinating construction process is available. Borrow *The Iowa River Bridge: Progress through Preservation* from the LTAP library by contacting Jim Hogan, CTRE's library coordinator, 515-294-9481, <a href="https://hoganj@iastate.edu">hoganj@iastate.edu</a>.

Copies of the video have been sent to many public libraries across the state. Your own local library may have a copy.

You can receive your own free copy of the show on DVD, plus photos and the project technical report, *Monitoring and Evaluation of the Westbound Roadway of the Iowa River Bridge*, on CD. Contact Max Grogg, programs engineer, FHWA, Iowa Division, 515-233-7306, <a href="max.grogg@fhwa.dot.gov">max.grogg@fhwa.dot.gov</a>. Or write to him at 105 Sixth Street, Ames, IA 50010.

A summary and a complete version of the technical report are online, along with contact information for the ISU researchers who monitored the bridge during construction.