

I-35 Brazos River Bridge

Waco, TX

Work / Activity 1
Stay Cables

Work / Activity 2
Technical Assistance



Description of the work

Increased truck traffic coupled with regional population growth in Waco, TX has created greater travel demand along I-35. I-35 is a major North/South artery in Texas. This Project is a true signature bridge in the city of Waco and the region. The two 620' long bridges, with respectively three one way traffic lanes, allow access to the new stadium at Baylor University, as well as the frontage roads while relieving traffic on I-35. The Bridge was designed with steel box girders, reinforced concrete deck and cable stays supported structure. This is the first extradosed bridge in the US using a steel composite structure. Instead of a conventional solution with two anchors in the pylon, the proposed saddle simplified the design of the pylon head and also facilitated future maintenance.

Freyssinet Mission

Freyssinet furnished and installed the stay cables and damper system. The solution included the innovative Cohestrand® and multitube saddles for the 40 stay cables. Each strand is encapsulated in a special resin and HDPE sheath. Each strand is individually guided inside a dedicated conduct in the saddle. This solution provides for maximum durability and easy replacement of the strands for inspection during the service life of the structure.

The Freyssinet multistrand saddle combines the performance of the successful Freyssinet H2000 stay cable system and the simplicity of the saddle design, preserving the same properties in terms of fatigue behavior and corrosion resistance.

General Contractor :

The Lane Construction Corporation

Owner :

Texas DOT

Subsidiaries :

Freyssinet, Inc.

Beginning of works :

December 2012

End of works :

June 2014



Freyssinet, Inc. – 44880 Falcon place, Suite 100, Sterling, VA 20166

P : 703.378.2500 - F : 703.378.2700 - www.freyssinetusa.com