

Route 19 Missouri River Bridge at Hermann, Missouri

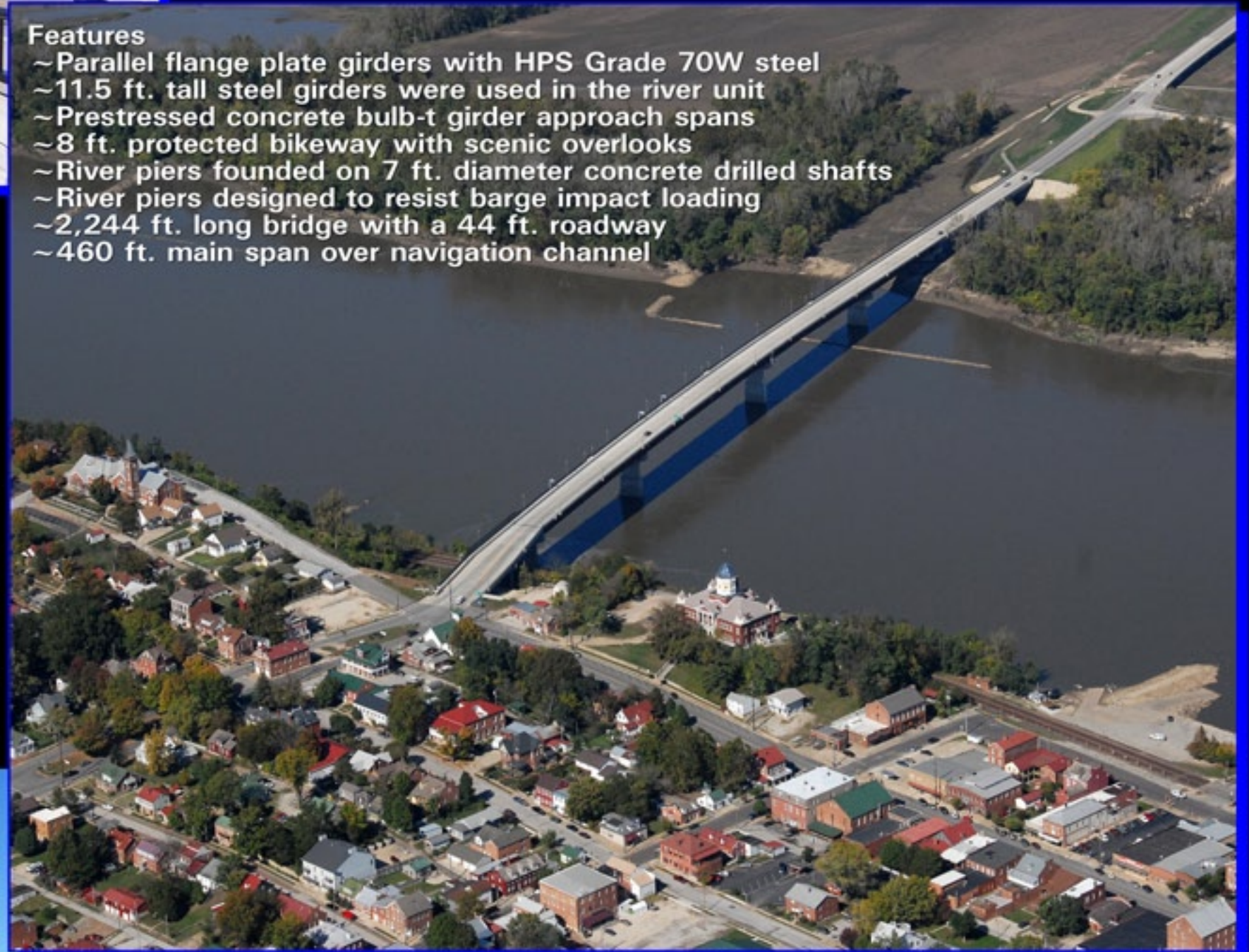


This showcase project required innovative solutions to numerous issues, along with the complexity of designing and constructing a bridge over the Missouri River. Span layout optimization, massive river pier design and long-span steel girder design were a few of the project challenges. Close coordination with steel fabricators and contractors allowed for a cost effective bridge design.

The attractive bikeway with scenic overlooks provides a safe river crossing for access to the nearby Katy Trail. Aesthetic enhancements that were applied to the bridge demonstrate how a major river bridge can be economically transformed into a landmark structure. The new bridge serves as a vital transportation link over the river and as a magnificent gateway to the historic town of Hermann, Missouri.

Features

- ~ Parallel flange plate girders with HPS Grade 70W steel
- ~ 11.5 ft. tall steel girders were used in the river unit
- ~ Prestressed concrete bulb-t girder approach spans
- ~ 8 ft. protected bikeway with scenic overlooks
- ~ River piers founded on 7 ft. diameter concrete drilled shafts
- ~ River piers designed to resist barge impact loading
- ~ 2,244 ft. long bridge with a 44 ft. roadway
- ~ 460 ft. main span over navigation channel



Features

- ~ Special construction requirements for protection of nearby historic structures
- ~ Decorative concrete form liners
- ~ Decorative lighting to match fixtures in adjacent downtown Hermann
- ~ Ornamental pedestrian fence and handrails
- ~ River pier accent lighting
- ~ Total project cost \$32.8 million

