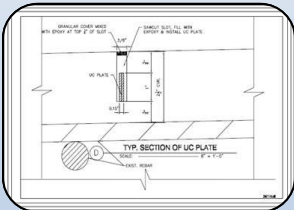
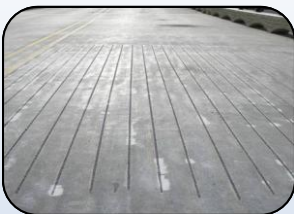


Project Brief

Central Avenue Bridge Slab Strengthening



Burlington, IA
2005



The unique “X-shape” bridge lacked sufficient top and bottom rebar due to a shop drawing error. Both positive and negative bending capacities needed to be increased at certain regions of the bridge slab.

The carbon-based Tyfo® SCH-41 Composite System was utilized on the bottom side of the slab to strengthen areas lacking positive moment reinforcement. For negative bending strengthening, the Tyfo® UC carbon plates were inserted into saw cuts on the topside of the slab. Tyfo® S high-strength epoxy was used to fill the saw cuts around the plates, and fine gravel was adhered at the top surface. The bridge slab was strengthened by creative, non-obtrusive methods with the Tyfo® Composite Systems.

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