

## Great Lakes Sampson Street Bridge

Department of U.S. Navy

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*Location*

Great Lakes, Illinois

*Construction Completion*

2005

*Construction Cost*

\$2 million

*DMA Services Provided*

Structural Engineering  
Construction Inspection



The Sampson Street Bridge, located on the Great Lakes Naval Base, was in need of structural repairs to the main piers and concrete arches. Significant deterioration of the existing concrete required replacement of reinforcing and application of structural shotcrete overlays.

David Mason & Associates provided structural analysis and inspection for the shotcrete repairs of this 100-year old concrete arch bridge. Our services included evaluation of the structural condition on the concrete of the arch, floorbeams and sidewalk overhangs as well as recommendations for repairs. DMA also provided construction administration and inspection during the repairs of the structure.

This design-build project required timely analysis and subsequent repair details to be provided to the contractor. These repair plans were coordinated with the contractor for implementation into the construction schedule. This demanded a high level of communication with the contractors, subcontractors, and material suppliers in order to maintain budget and schedule.

