

Visualization

CSAH 83 Reconstruction, Shakopee Mdewakanton Sioux Community



Real People. Real Solutions.

In the Twin Cities south metro, CSAH 83 serves Prior Lake, Shakopee, and Mystic Lake Casino Hotel. Shakopee Mdewakanton Sioux Community (SMSC) partnered with Scott County and the City of Prior Lake to address traffic challenges, congestion, and growth along the 1.5-mile segment between CSAH 42 and 82. Bolton & Menk completed roadway planning, traffic engineering, public outreach, permitting, and environmental documentation. We provided unique design solutions, including a high-volume ramp system and a new one-way internal roadway, all constructed under a constant flow of more than 20,000 vehicles per day. We developed a full 3D area model and fly-through animations to help understand the extensive roadway changes. Due to the extensive changes that were occurring with the roadway, aerial photos and video were not able to be used as a base for the animation. Therefore, our team of 3D modeling specialists developed a model of the entire 1.5-mile area. This included all primary and adjacent building and parking structures in the area, along with the new roadway system being built throughout the Mystic Lake Casino campus.

Bolton & Menk's responsibilities included:

- 3D modeling
- Shading/lighting of the model
- Character, vehicle, and camera animation
- Animation and video rendering
- Video post-production editing
- Distribution

To view the video, please go to: <https://youtu.be/1bylJaXyK8s>

Key Personnel:

- Dave Breiter—Graphic Designer
- Ross Tillman—Lead Traffic Engineer
- John Shain—GIS Specialist