



**Application**  
Traffic Responsive  
Delay Time, Queue Warning

**Location**  
Hastings, MN

**Technology**  
4 PCMS's  
1 Delay Time Displays  
6 Traffic Sensors  
2 Cameras

**Duration**  
Summer 2008

### Project Description

The DOT initiated this bridge reconstruction soon after the collapse of the 35W Bridge in Minneapolis. This old steel truss structure also had weakened gusset plates and needed immediate repair. This two lane bridge along TH 61 crossing the Mississippi River was reduced to one lane of alternating traffic resulting in major delays for the southeast Twin Cities metro. The bridge is also located at the bottom of a hill with limited sight distance where queues of stopped vehicles would often wait at a temporary signal to cross the river.

Together with MnDOT, JamLogic designed and deployed an automated work zone that conveyed travel times, suggested alternate routes during major congestion, and provided stopped traffic warnings to the traffic approaching the queued vehicles. Prepare to Stop static signs with flashers (shown below) were installed along the long southbound approach to the bridge to reduce the chance of rear end crashes. A combination of queue length and delay time determined automatic activation for Use Alternate Route messaging.

### Project Success

The project was on an accelerated schedule due to the need for quick repairs, making accurate information even more valuable to work zone safety, traveler mobility, and effective communication with the public.

### Project References

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