St. Croix River Crossing Project
Public Information Meeting

St. Croix River Crossing, Preliminary Engineering and Design Criteria Mn/DOT Contract No. 92530
General Study Description

- Evaluating the design and making refinements to enhance safety, and life cycle operations and maintenance of the structure.
  - Verify the structural sufficiency and feasibility of the conceptual bridge design as summarized in the Visual Quality Manual.
  - Evaluating a number of options related to the sizes of structural members with the goal of reducing cost while maintaining the overall appearance as outlined in the Visual Quality Manual.
  - Evaluating the constructability of the concept design and recommending appropriate refinements.

- Coordination of these efforts with appropriate agencies, stakeholders and the general public

- Prepare technical documents that will be used by the Minnesota Department of Transportation to prepare a solicitation for the final design and construction of the bridge.
Progress Images

View of refined 3-column form

Road deck view

View along exterior barrier

View along north side at tower

St. Croix River Crossing
Elements Under Study

- Two vs. three column configuration
  - The goal is to delete the center column if structurally possible.

- One vs. two box girder configuration and depth of structure
  - The two box option requires struts be placed between them.
  - The option will be selected based upon cost and constructability issues.
  - The depth of the box girders is also being studied with the goal to reduce depth and overall cost.

St. Croix River Crossing
Elements Under Study

- Cable attachment (exposed vs. covered)

Exposed cable attachment

Covered cable attachment
Additional Study and Design Efforts

- Pedestrian railing and path lighting design
- Bridge aesthetic lighting design
- Color selections
Loop Trail
Inboard of Towers

Potential overlook plaza at tower

View looking along trail

St. Croix River Crossing
Loop Trail Outboard of Towers

Trail widening at tower

View looking along trail

St. Croix River Crossing