



SARAH MILDRED LONG Bridge Replacement
The Regional River Crossing

**APRIL 26, 2013 DESIGN WORKSHOP
SARAH MILDRED LONG BRIDGE REPLACEMENT
THE REGIONAL RIVER CROSSING**

**SUMMARY OF BRIDGE
AESTHETIC LIGHTING SELECTION RESULTS
MAY 7, 2013**

Introduction

Aesthetic lighting provides an opportunity to create a bridge with a nighttime signature. During the Design Workshop on April 26, 2013, the participants were shown examples of aesthetic lighting on the superstructure, towers and substructure of bridges. Roadway and aesthetic lighting on the new bridge will use today's technology of Light Emitting Diodes (LED). LED lights are energy efficient and require minimal maintenance. The participants were also shown examples of the use of subtle color to light the piers, towers or superstructure.

After the presentation, there was a break for one on one discussion. The participants were encouraged to view handouts and a large banner, shown in Figure 1. Following the break, there was time for an open discussion. The dark sky requirements were discussed.

Summary of Preferences Selected

Scoring was done on a scale of 1 to 10, with 10 being the highest possible score. The participants were given voting forms with extra space to provide their written comments. The results of the preferences were: Pier Lighting with an average score of 7.4, Tower Lighting with an average score of 8.2, Superstructure Lighting with an average score of 6.2 (this was the least desired of the lighting locations options), and subtle color in the lighting of Piers, Towers or Superstructure with an average score of 7.7. The results of the voting preferences are shown in Figure 2.



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Figure 1. Bridge Aesthetic Lighting Banner

BRIDGE AESTHETIC LIGHTING

These bridge examples show how lighting has been used in various places on the bridge to highlight certain features at night.

Tower Lighting



Penobscot Narrows Bridge & Observatory, Maine



Jacques Chaban-Delmas Lift Bridge, France



C&D Canal Bridge, Delaware



I-280 Veterans' Glass City Skyway, Ohio

Pier Lighting



Broadway Bridge, Florida



Four Bears Bridge, North Dakota



Sagadahoc Bridge, Maine

Superstructure Lighting



Susquehanna River Bridge, Pennsylvania



Penobscot Narrows Bridge & Observatory, Maine

Colored Lighting



I-35W Bridge, Minnesota



I-35W Bridge, Minnesota



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Figure 2. Bridge Aesthetic Lighting Preference Results

