JULY 11, 2013 DESIGN WORKSHOP SARAH MILDRED LONG BRIDGE REPLACEMENT THE REGIONAL RIVER CROSSING

SUMMARY OF BRIDGE RAILING SELECTION RESULTS JULY 19, 2013

Introduction

The new Sarah Mildred Long Bridge will require a TL-4 rated bridge railing. This is a rating given by national codes to meet impact loads for this type of bridge. There are several railing types that meet this design criteria to pick from. The design standards for this type of bridge rail for vehicle traffic and bicycles require a railing height of 42" (3'-6"). This is 14" lower than the railing on the existing bridge.

During the Design Workshop on April 26, 2013, the participants were presented with three options for bridge railing type that satisfy the requirements: Fully Open Bridge Rail, Partially Open Bridge Rail, and Solid Concrete Bridge Rail. The participants were shown examples of bridge railings from other bridges, as well as animations showing the driver's perspective along the new bridge with each bridge railing type. Participated voted and selected the Fully Open Bridge Rail as the preferred railing.

At the July 11th Design Workshop, the participants were presented three fully open bridge rail options with renderings of each railing on the bridge structure. After the presentation, there was time for open discussion. A large banner, as shown in Figure 1, was displayed in the room to further assist the participants in their selection of preferred railing type.

Summary of Preferences Selected

Scoring of the three (3) railing types 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: Bridge Railing Option 1, with an average score of 9.1, Bridge Railing Option 3 with an average score of 4.9, and Bridge Railing Option 2 with an average score of 3.6. The results of the voting preferences are shown in Figure 2.

The winning bridge railing type is the Bridge Railing Option 1

SARAH MILDRED LONG Bridge Replacement The Regional River Crossing



The Regional River Crossing

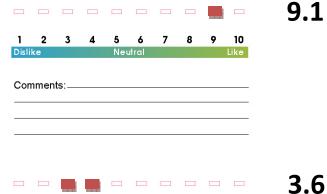
Figure 2. Bridge Style Preference Results



Bridge Railing Preference Form

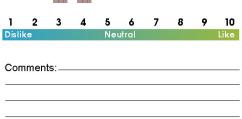
Using the black pens provided, please fill in completely one red box for each railing to give your preferences. If no box is filled then a 5 will be recorded as Neutral. NOTE: 1 = Lowest Score (Dislike); 5 = Neutral; 10 = Highest Score (Like).





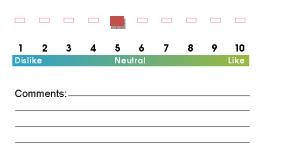






Option 3





4.9