Cribari Memorial Bridge Project Advisory Committee (PAC) Meeting #4

CTDOT State Project # 158-214

January 30, 2019
CRIBARI MEMORIAL BRIDGE
Meeting Agenda

• Welcome & Introductions
• Ground Rules & PAC Role Refresher
• PAC Meeting Purpose
• NEW Binder Contents
• What We’ve Heard
• Conservation & Off-Alignment Alternatives
  – Discussion & PAC Workshop
• Next PAC Meeting
Meetings will
• Start and end on time
• Focus on input from PAC members
• Showcase diverse perspectives

PAC members will
• Be courteous and respect all opinions. Rude behavior will not be tolerated
• Have one speaker at a time
• Provide honest input
• Respect recommendations discussed at previous meetings
• Review materials provided in advance

Purpose: Information Exchange
What Is Our Purpose Tonight?

To solicit PAC input for Conservation and Off-alignment alternatives
NEW Binder materials

- Comparison matrix
- Conservation & Off-alignment alternatives
- Meeting #3 summary
- Meeting #4 presentation
CRIBARI MEMORIAL BRIDGE
What We’ve Heard

What You Have Told Us

Feedback on Rehabilitation and On-alignment Replacement Concepts

• Consider a conservation alternative
• Provide a simple method of comparing options
• Consider pedestrian mobility
• Consider travel speed
• Reduce impacts to parking in the project area
• Reduce the height and width of alternatives
### Alternatives Comparison Chart

<table>
<thead>
<tr>
<th>Work Involved</th>
<th>No Build</th>
<th>Conservation</th>
<th>Rehabilitation</th>
<th>Replacement (On-Alignment)</th>
<th>Replacement (Off-Alignment)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purpose and Need</td>
<td>• Minor repairs performed, as required, by DOT Maintenance forces</td>
<td>• Restore bridge to its 1993 condition</td>
<td>• Repair/widening of trusses</td>
<td>• Replacement of the existing bridge with a new structure on a similar alignment</td>
<td>• Replacement of the existing bridge with a new structure on an alignment located north from the existing</td>
</tr>
<tr>
<td>Address Structural Deficiencies</td>
<td>• Repairs made; however, limited by capabilities of DOT Maintenance</td>
<td>• Load restrictions no longer required</td>
<td>• Structural repair of Piers 2 and 3</td>
<td>• New structure supporting current load standards</td>
<td>• New structure supporting current load standards</td>
</tr>
<tr>
<td>Address Functional Deficiencies</td>
<td>• Fills height restriction caused by electric box</td>
<td>• Load restrictions no longer required</td>
<td>• Crash-tested guide rail</td>
<td>• Vertical height raised to 16'-3&quot;</td>
<td>• Lane width increased</td>
</tr>
<tr>
<td>Increased vehicular safety</td>
<td>• New barrier system for bridge openings</td>
<td>• Widened trusses reduce chance of impact damage</td>
<td>• Crash-tested railing</td>
<td>• Vertical height raised to 16'-3&quot; (min.)</td>
<td>• Lane width increased</td>
</tr>
<tr>
<td>Increased bicycle/ pedestrian safety</td>
<td>• New barrier system for bridge openings</td>
<td>• Widened travel lanes and shoulders</td>
<td>• Crash-tested railing</td>
<td>• Widened travel lanes and shoulders</td>
<td>• New barrier system for bridge openings</td>
</tr>
<tr>
<td>Improved marine travel</td>
<td>• Potential widening of sidewalk*</td>
<td>• New barrier system for bridge openings</td>
<td>• Crash-tested railing</td>
<td>• Increased marine vertical clearance</td>
<td>• Increased marine vertical clearance</td>
</tr>
<tr>
<td>Considers historic character</td>
<td>• Trusses remain as they are with periodic repair</td>
<td>• Trusses are maintained but widened</td>
<td>• Increased marine vertical clearance</td>
<td>• Bright side</td>
<td>• Bright side</td>
</tr>
<tr>
<td>Resilient to changing climate</td>
<td>• Water-resistant mechanical equipment</td>
<td>• Increased marine vertical clearance</td>
<td>• Bright side</td>
<td>• Water-resistant mechanical equipment</td>
<td>• Water-resistant mechanical equipment</td>
</tr>
<tr>
<td>Design Considerations</td>
<td>• Equipment raised from existing location</td>
<td>• Equipment raised from existing location</td>
<td>• Water-resistant mechanical equipment</td>
<td>• Equipment raised from existing location</td>
<td>• Equipment raised from existing location</td>
</tr>
<tr>
<td>Roadway Vertical Clearance</td>
<td>12'-10&quot;</td>
<td>Increase from existing</td>
<td>14'-3&quot;</td>
<td>16'-3&quot; (min.)**</td>
<td>16'-3&quot; (min.)**</td>
</tr>
<tr>
<td>(posted for 12'-7&quot;&quot;)</td>
<td>Bridge remains posted</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marine Vertical Clearance</td>
<td>Approx. 7'-0&quot;</td>
<td>Approx. 7'-0&quot;</td>
<td>Approx. 7'-0&quot;</td>
<td>&gt; existing **</td>
<td>&gt; existing **</td>
</tr>
<tr>
<td>Lane Width</td>
<td>9'-0&quot;</td>
<td>9'-0&quot;</td>
<td>9'-0&quot;</td>
<td>10'-12'**</td>
<td>10'-12'**</td>
</tr>
<tr>
<td>Bike Path/Shoulder Width</td>
<td>0'</td>
<td>0'</td>
<td>0'</td>
<td>4' to 5'***</td>
<td>4' to 5'***</td>
</tr>
<tr>
<td>Intersection Improvements</td>
<td>No change from existing</td>
<td>Lengthening of right turn lane leading to Riverside Ave.</td>
<td>Lengthening of right turn lane leading to Riverside Ave.</td>
<td>Lengthening of right turn lane leading to Riverside Ave.</td>
<td>Lengthening of right turn lane leading to Riverside Ave.</td>
</tr>
<tr>
<td>Sidewalks</td>
<td>• 4'-6&quot; sidewalk located along north side</td>
<td>• 4'-6&quot; sidewalk located along north side</td>
<td>• 5'-6&quot; wide sidewalks</td>
<td>• 1-2 sidewalks along bridge</td>
<td>• 1-2 sidewalks along bridge</td>
</tr>
<tr>
<td></td>
<td>• Potential widening of sidewalks*</td>
<td></td>
<td></td>
<td>• North and/or South side of bridge*</td>
<td>• North and/or South side of bridge*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 5'-6&quot; wide sidewalks**</td>
<td>• 5'-6&quot; wide sidewalks**</td>
</tr>
<tr>
<td>Bridge Openings</td>
<td>No change from existing</td>
<td>No change from existing</td>
<td>No change from existing</td>
<td>Reduced/faster bridge openings</td>
<td>Reduced/faster bridge openings</td>
</tr>
<tr>
<td>Rights-of-Way</td>
<td>No impacts</td>
<td>Temporary easements for temporary bridge**</td>
<td>Temporary easements for temporary bridge**</td>
<td>Temporary easements for temporary bridge**</td>
<td>Temporary easements for temporary bridge**</td>
</tr>
<tr>
<td>Wetlands/Water Quality</td>
<td>• Repairs to piers</td>
<td>• Repairs to piers</td>
<td>• Repairs to piers</td>
<td>• Replacement of existing bridge</td>
<td>• Replacement of existing bridge</td>
</tr>
<tr>
<td></td>
<td>• Impacts as needed for maintenance</td>
<td>• Installation/removal of temporary bridge**</td>
<td>• Installation/removal of temporary bridge</td>
<td>• Installation/removal of temporary bridge</td>
<td>• Installation/removal of temporary bridge</td>
</tr>
<tr>
<td>Construction Duration</td>
<td>As needed for maintenance</td>
<td>2-3 years</td>
<td>2-3 years</td>
<td>7 years</td>
<td>7 years</td>
</tr>
<tr>
<td>Anticipated Structure Service Life</td>
<td>20-25 years</td>
<td>25-40 years</td>
<td>25-40 years</td>
<td>75-100 years</td>
<td>75-100 years</td>
</tr>
</tbody>
</table>

*under consideration based on PAC discussion
**exact values would be vetted out at design level if chosen
CRIBARI MEMORIAL BRIDGE
Rehabilitation Section

3'-7\(\frac{1}{4}\)" (CLEAR) SIDEWALK

APPROACH SPAN SECTION
CONSERVATION BRIDGE REHABILITATION CONCEPT
SCALE: 1/2" = 1'-0"
Given the information you have about the **Conservation Alternative**, what are your concerns? *How will this alternative affect the group you represent?*
If the Conservation Alternative were to proceed, what would you do to solve the concerns you identified?
CRIBARI MEMORIAL BRIDGE
On-
alignment Replacement

Draft Concept
For PAC Discussion
Draft Concept
For PAC Discussion
Given the information you have about the Off-alignment Replacement Alternative, what are your concerns? How will this alternative affect the group you represent?
If the **Off-alignment Replacement Alternative** were to proceed, what would you do to solve the concerns you identified?
Draft Concept
For PAC Discussion
Draft Concept
For PAC Discussion
CRIBARI MEMORIAL BRIDGE
Parallel Off-Alignment Replacement

Draft Concept For PAC Discussion
Draft Concept
For PAC Discussion

SWING SPAN SECTION
PARALLEL OFF-ALIGNMENT BRIDGE REPLACEMENT CONCEPT

SCALE: \( \frac{1}{4}" = 1'-0" \)
Given the information you have about the Parallel Off-alignment Replacement Alternative, what are your concerns? How will this alternative affect the group you represent?
If the Parallel Off-alignment Replacement Alternative were to proceed, what would you do to solve the concerns you identified?
CRIBARI MEMORIAL BRIDGE
Next PAC Meeting

2018

1. PAC Meetings
2. PAC Meetings
3. Alternatives Analysis/Development/Preferred Alternative
4. Data Collection/Analysis
5. Public Outreach

2019

Next PAC Meeting

PAC initiation
Existing Conditions/No Build Alt.
Alternatives to be Analyzed (two meetings)
Public Hearing
Thank you for your participation