I-59/20 CENTRAL BUSINESS DISTRICT (CBD) INTERCHANGE AND BRIDGE REPLACEMENT PROJECT

American Society of Civil Engineers
March 02, 2017

DeJarvis Leonard
East Central Region Engineer
Alabama Department of Transportation
Decision still months away on freeway routes through downtown areas and outlying districts.
Magnificent mile combines transportation and recreation in complimentary design.
I-59/20 & I-65 INTERCHANGE
SOUTH VIEW
EXISTING
I-59/20 & I-65 INTERCHANGE
SOUTH VIEW

PROPOSED
I-59/20 & RME INTERCHANGE
EAST VIEW

PROPOSED
I-59/20 DOWNTOWN SHERATON

EXISTING
I-59/20 DOWNTOWN SHERATON PROPOSED
CURRENT CONDITIONS/ISSUES
CURRENT CONDITIONS/ISSUES
CURRENT CONDITIONS/ISSUES
A BETTER WAY
A BETTER WAY
CURRENT CONDITIONS/ISSUES
A BETTER WAY
CURRENT CONDITIONS/ISSUES
A BETTER WAY
CURRENT CONDITIONS/ISSUES
A BETTER WAY
CURRENT CONDITIONS/ISSUES
A BETTER WAY
PHASES OF CONSTRUCTION
BRIDGE DESIGN PROJECT SCOPE

- **Phase A** - 0.13 Mile of Bridges
- **Phase 1** – 0.19 Mile of Bridges (Widening & Jacking)
- **Phase 2** – 3.73 Miles of Bridges
- **Phase 3** – 2.48 Miles of Bridges (Does not Include Segmental)

Total Support Bridges Phases A, 1, 2, 3 – 6.53 Miles
Phase A

$19,281,545
Phase 1
$7,416,165
Phase 2
$208,611,848
H-PILES
DRILLED SHAFTS
GEOPIERS
MICRO-PIPES
MICRO-PILES
MICRO-PILES
MICRO-PILES
MICRO-PILES
MICRO-PILES
RETAINING WALLS (MSE)
RETAINING WALLS (MSE)
RETAINING WALLS (SOLDIER PILE)
RETAINING WALLS (SOLDIER PILE)
RETAINING WALLS (SOLDIER PILE)
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RETAINING WALLS (SOLDIER PILE)
RETAINING WALLS

- Sculpted Shotcrete Pattern Facing for Soldier Pile Wall
RETAINING WALLS (SOIL NAIL)
GIRDER INSTALLATION
GIRDER INSTALLATION
GIRDER INSTALLATION
INCENTIVE FOR PHASE 2

• IF COMPLETED ON OR BEFORE AUGUST 31, 2018 –
  CONTRACTOR WILL RECEIVE A $10 MILLION DOLLAR BONUS

• IF NOT COMPLETED BY AUGUST 31, 2018 –
  CONTRACTOR WILL BE ASSESSED A DISINCENTIVE OF $200,000 PER DAY
Phase 3
SEGMENTAL BRIDGE SECTION
EXAMPLE – PHASE 3
SEGMENT STORAGE
EXAMPLE – PHASE 3
ERECTION TRUSS / SHORING TOWER EXAMPLE – PHASE 3
OVERHEAD GANTRY EXAMPLE – PHASE 3
# ESTIMATED PROJECT TIMELINE

*Estimated closures are based on the contractor’s preliminary schedule and are subject to change*

<table>
<thead>
<tr>
<th>Phase</th>
<th>Project</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Reconstruction of 12\textsuperscript{th} Avenue N &amp; 31\textsuperscript{st} Street N Bridges</td>
<td>May 2015 – June 2017</td>
</tr>
<tr>
<td>1</td>
<td>Bridge Widenings on I-65 over 2\textsuperscript{nd}, 3\textsuperscript{rd} and 4\textsuperscript{th} Avenue N</td>
<td>August 2015 – June 2016</td>
</tr>
<tr>
<td>2</td>
<td>Reconstruction of I-65 and I-59/20 Interchange Ramps</td>
<td>March 2016 – August 2018</td>
</tr>
<tr>
<td>3</td>
<td>Reconstruction of RME Ramps &amp; Reconstruction of Mainline Bridges</td>
<td>Summer 2017 – Fall 2020</td>
</tr>
<tr>
<td>3</td>
<td>Closing of I-59/20 Bridges</td>
<td>TBD</td>
</tr>
<tr>
<td>3</td>
<td>(Milestone)</td>
<td></td>
</tr>
</tbody>
</table>
PHASE 3

ALTERNATIVE TECHNICAL CONCEPTS (ATC’s)

1. Time Saving
2. Construction Sequencing
3. Construction Methods
4. Less Traffic Impacts
PHASE 3

CONTRACTOR’S PROPOSAL

<table>
<thead>
<tr>
<th>Base Proposal</th>
<th>ATC Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Unit Pricing</td>
<td>- Lump Sum Pricing</td>
</tr>
</tbody>
</table>
PHASE 3

MAINLINE BRIDGE RECONSTRUCTION TIMELINE

<table>
<thead>
<tr>
<th>Single Lane Closure</th>
<th>Double Lane Closure</th>
<th>Complete Closure</th>
</tr>
</thead>
<tbody>
<tr>
<td>$42,500/day per direction</td>
<td>$105,000/day per direction</td>
<td>$125,000/day per direction</td>
</tr>
</tbody>
</table>

- Contractor proposes number of days required for each type of closure
- This method will be used to determine any incentive or disincentives based on the contractor’s proposed schedule vs. actual completion time
Closure Alert!

31st Bridge to Close.

On October 6th, the 31st Street bridge over I-59/20 will be closed.

ALABAMA DEPARTMENT OF TRANSPORTATION
East Central Region
100 Corporate Parkway, Suite 450
Hoover, AL 35242

ADDRESS HERE

Road Closure Alert!

Improving Birmingham’s Interstate Assets

Stay in touch with the progress, and if you have questions you can contact us at:

On the web, go to: www.5920bridge.com

Email us at: contact@5920bridge.com

Facebook.com/5920bridge

@5920bridge

59/20 Bridges

PUBLISHER'S ANNOUNCEMENT

PUBLIC SERVICE ANNOUNCEMENT
When the Interstate System was first developed in the 1940s, the federal government specified that interstate highways weave through all American cities with populations greater than 100,000 people, at locations that could be easily accessed by a majority of the population. In practice, this meant the interstate was often run through the center of town, or alongside heavily populated residential areas. Because of age, the Alabama Department of Transportation has begun an effort to improve and replace the elevated portions of Interstate 59/20 through downtown Birmingham. Information on the scope of this project can be found at this site. In addition, it will be periodically updated to keep you informed of our progress.
JOIN US ON OUR LIVE MONTHLY UPDATES

Media Briefing
December 21, 2016
2:00 PM

DeJarvis Leonard
East Central Region Engineer

**Message from Organizer**

Welcome to the 59/20 Bridge Media Briefing. During the presentation, all microphones will be muted. If you have any questions during the presentation, please use the chat feature. At the end of the presentation, each attendee will be unmuted individually and given the opportunity to ask questions.

**To improve audio quality, please call into the conference by phone.**

Please call into the conference using the instructions in the audio control panel.

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BENEATH THE BRIDGE CONCEPT
LIGHTING CONCEPT
Q&A SESSION

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