Birmingham I-59/20 CBD Bridge Replacement

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State Construction Engineer
Alabama Department of Transportation
Why Replace?

- More than 45 years old
- Traffic over 170,000 vpd
- Design ADT was a fraction
- Deck failing
- Capacity issues
- Ingress and egress issues for ramps
Magnificent mile combines transportation and recreation in complimentary design
Why Replace?
Why Replace?
Replacement Options

I-59-20 could not be relocated in ANY timeframe that is relevant to the solving the current problem
I-59/20 CBD Overall Project

Phase 1
Phase 2
Phase 3
Phase A
Phase A

- Completed in Sept 2017
- Prime: Bell & Associates
- Final: $18,352,692
31st St & 12th Ave Bridges
Phase 1

- Completed in October 2016
- Prime: Brasfield & Gorrie
- Final: $7,205,605
2nd, 3rd & 4th Ave N Bridge Widening
ITS Project

• Install ITS Infrastructure across all of CBD Projects
• Prime: Contact Network
• Contract: $6,351,850.86
• Status: Punch list
Phase B

- Place OGFC on I-65 and west end of CBD Bridges
- Let by end of 2019
- Work done in Spring and Summer 2020
- Plans still being developed, so costs are ???
Challenges

- Confined downtown space
- Environmental/Historical aspects
- Public outreach
- Norfolk Southern RR
- Alabama Power buried 115kV oil-cooled line
- Geology is pinnacle rock
- MOT
- New D-B/Alternative contracting state law (ATCs)
- No Excuse I/D
- Bridge lighting
- Public space project under 2021 World Games
Alabama Power Company

- Buried 115 kV line
- Multiple locations for utility crossing
- Vibration requirements
Aesthetic Lighting
Public Space Conceptual Master Plan
Total Costs

• For 5 contracts: Approx. $741 million
• CE&I: Approx. $110 million (budgeted)
• Additional: ROW and Utilities
  + Phase B

Note: should end up around $1 Billion
Roads & Bridges Magazine

• June 2019 edition
• Feature article on Phase 3