



Courtland Street Bridge Replacement Industry Forum

January 17, 2017

Andrew Hoenig, PE, DBIA, Senior DB Project Manager

Richard O'Hara, DB Project Manager

Disclaimer Statement

- At this meeting the Department will provide information about the project's delivery goals, anticipated scope, anticipated Design-Build procurement process, and potential risks. Participants will be encouraged to ask questions during this meeting; however **any information provided by Department shall be considered as informational only and is subject to change.**

Agenda

- Design-Build Overview
- Courtland Street Bridge Replacement
- Schedule
- Open Discussion

Design-Build Overview

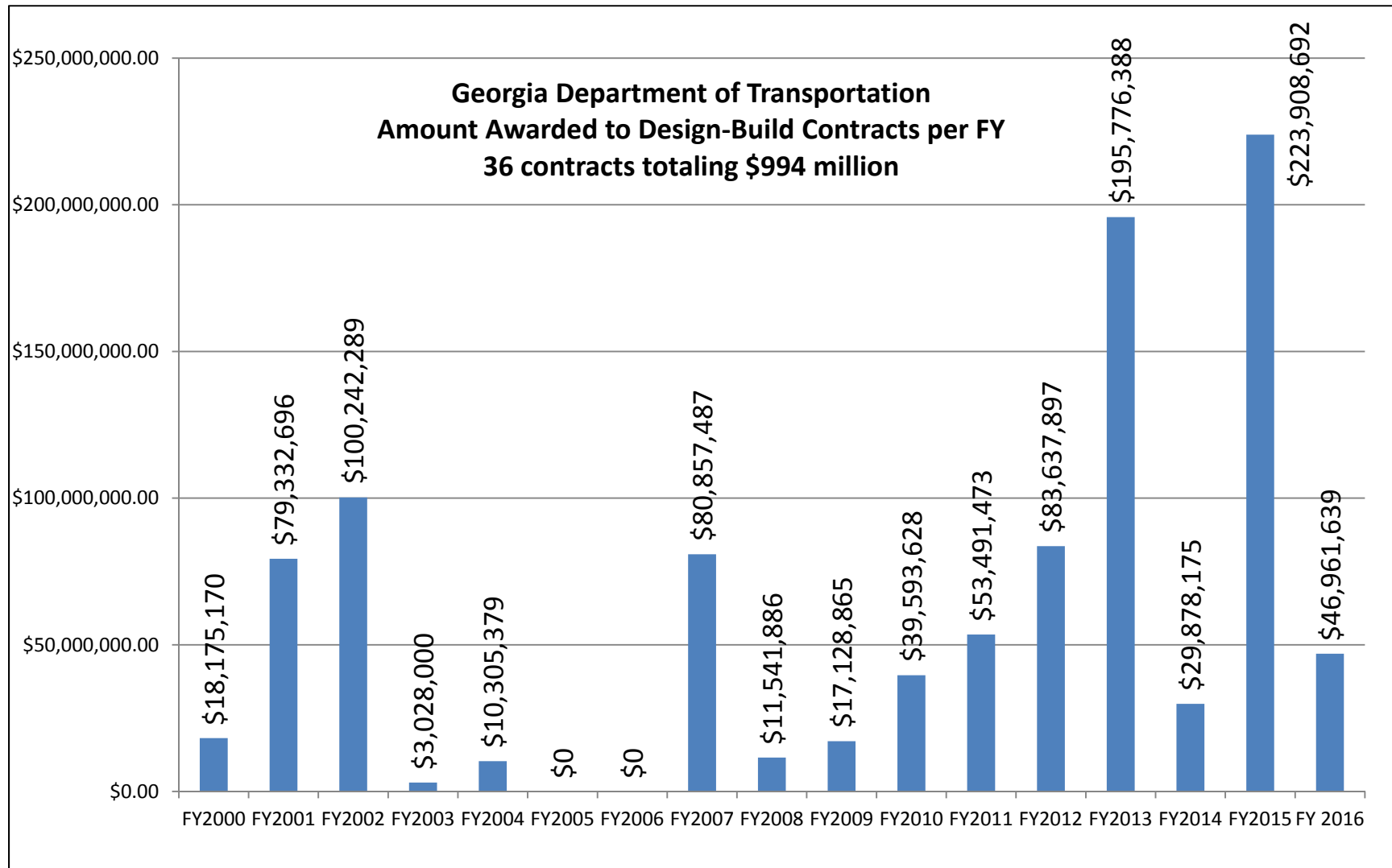
Design-Build Overview

- Design-Build
 - Combines preconstruction related services with construction services into **one contract**
 - Allows the contractor to participate in the project's design in an effort to **reduce costs, improve communication and expedite project delivery**

- Governed by
 - 23 Code of Federal Regulations (CFR) Part 636
 - Georgia Code Section 32-2-81 (*Enacted 2004*)
 - Board Rules, Chapter 672-18 (*Adopted 2006 & 2013*)



Innovative Delivery





Courtland Street Bridge Replacement

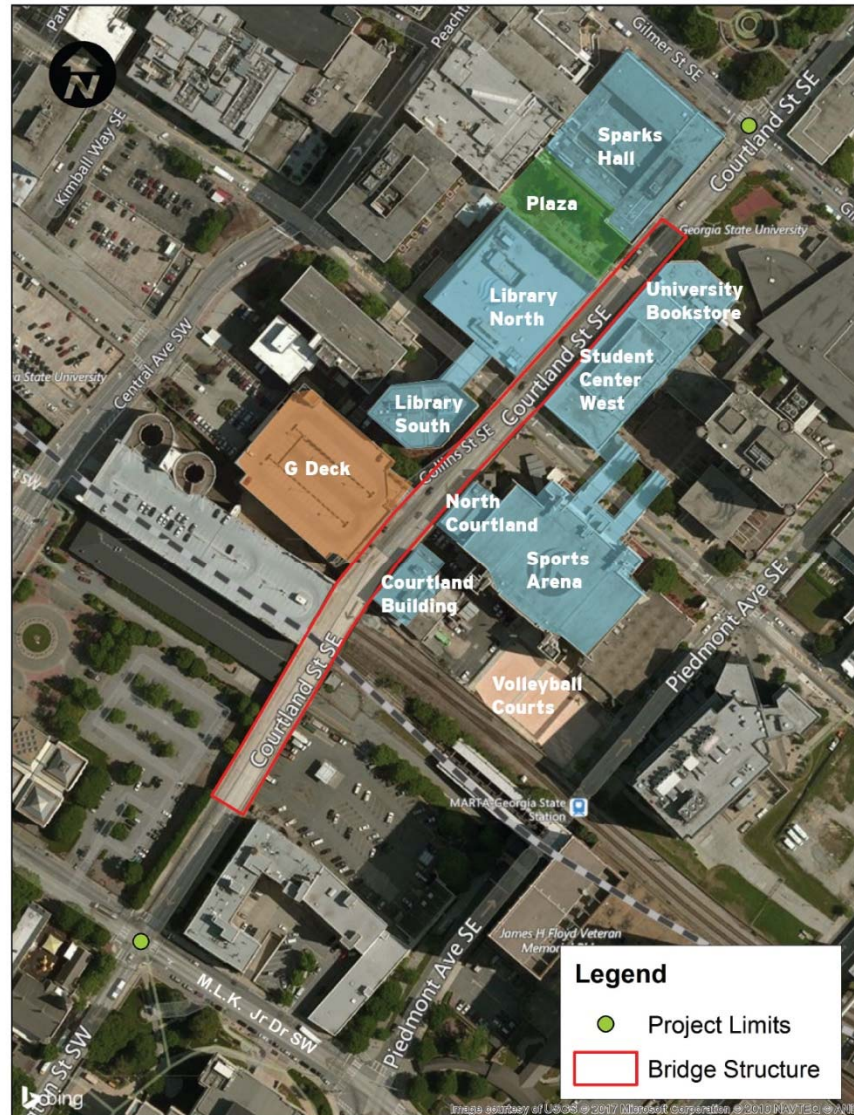
Project Overview

- Design-Bid-Build → Design-Build
- Federal funds
- Stakeholder involvement
- Compressed schedule
- Off-site detour
- Limited ROW
- Maintain existing profile/alignment and bridge length
- Lighting
- DBE Goals

Agency Stakeholders

- City of Atlanta
- Georgia State University (GSU)
- Georgia Building Authority (GBA)
- MARTA
- CSX

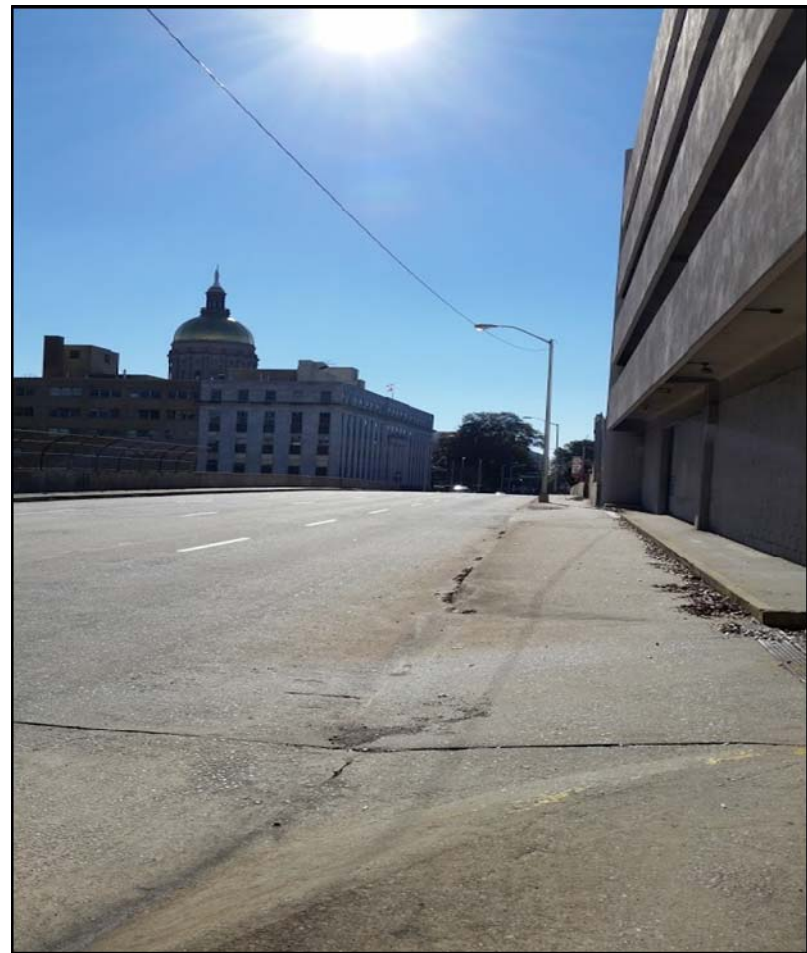
Courtland Street Bridge Location



Courtland Street Bridge



Courtland Street Bridge



Courtland Street Bridge



Courtland Street Bridge



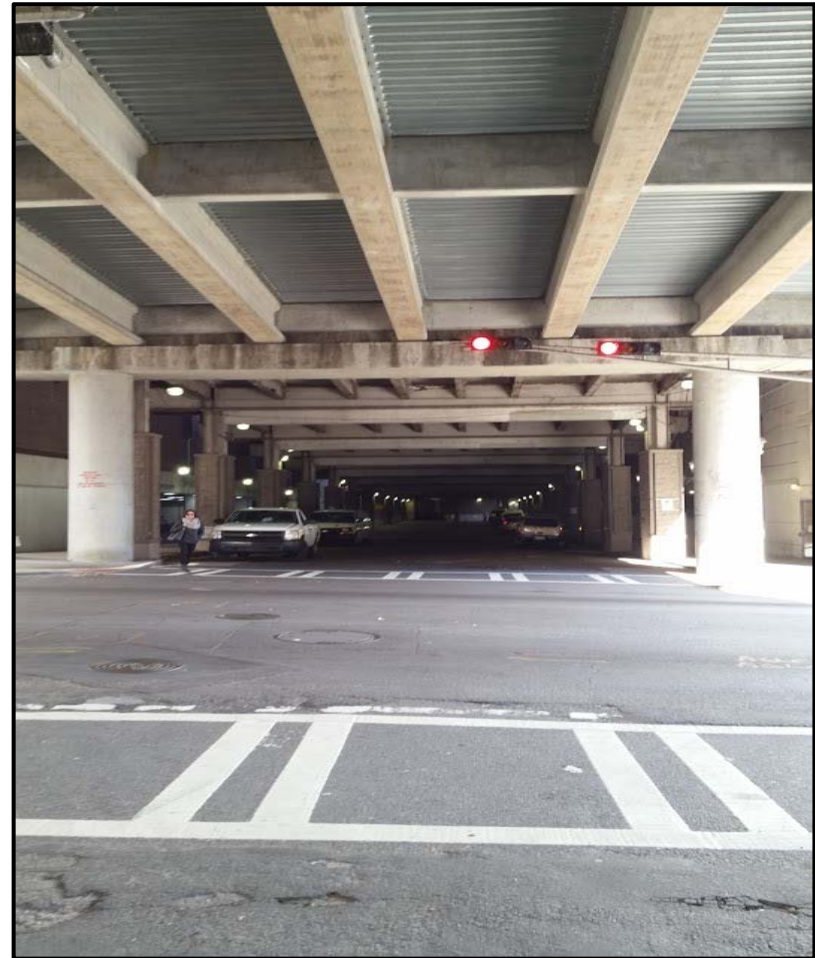
Courtland Street Bridge



Courtland Street Bridge



Courtland Street Bridge



Courtland Street Bridge



Risks and Mitigation Strategies

Risk Item	Mitigation Measure
Cost Estimate	Continue to Monitor Industry Trends
Overall Contract Duration	18 months (design and construction)
Detour Duration	Not to exceed six months; coordinated with GSU summer semester 2018 and Legislative Session 2019
Procurement	Perform industry outreach early and provide realistic timeframes in schedule for procurement
Construction Staging / Pedestrian Access	Provide careful consideration and constant coordination with Stakeholders throughout construction
Stakeholder Outreach	Early and ongoing coordination with stakeholders during design development and construction

Risks and Mitigation Strategies

Risk Item	Mitigation Measure
Geotechnical	Approved Bridge Foundation Investigation (BFI) from Design-Bid-Build project
Survey Database	Include survey database in the RFP
Utilities	SUE QL-B Early coordination with utility owners Executed MOUs included in the RFP
ROW	Anticipate obtaining ROW certification prior to let
Environmental	Categorical Exclusion (CE) document approved Re-evaluation anticipated to be approved in March 2017
Design Variance Design Exception	Evaluate need for DV/DE during RFP development Include approved known instances of DV/DE in the RFP

Project Specific Opportunities

- Opportunity for Accelerated Bridge Construction (ABC) in Georgia
 - Reduction in site time for actual bridge replacement
 - Promotes safety
 - Innovative construction methods
 - Stakeholders



Project Specific Opportunities



Proposed Costing Plans

- Micropiles
- Steel Girder Launching
- Precast Deck Panels

Roles and Responsibilities

- **Design-Build Team**
 - Schedule development/management
 - Bridge design
 - Geotechnical reports
 - Re-evaluation if additional ROW
 - Install & maintain detour signage
 - Utility/coordination and relocation (if needed)
 - Replace bridge within allowable detour duration
 - Construction
 - Agency and public stakeholder coordination
- **GDOT**
 - Submittal reviews
 - Environmental Special Studies preparation/approval for CE re-evaluation to reflect no change or minor design change
 - Construction Oversight/CEI

Tentative Schedule of Events

a. GDOT issues Public Notice Advertisement	11/10/2016	-----
b. Industry Forum – OGC Room 401-402	01/17/2017	10:00 A.M.
c. GDOT issues Request for Qualifications (RFQ)	01/20/2017	-----
d. Deadline for the submission of written questions and Requests for Clarification	02/10/2017	2:00 P.M.
e. Deadline for Statement of Qualifications (SOQ)	02/24/2017	2:00 P.M.
f. GDOT issues the Notice to Finalists	03/17/2017	-----
g. GDOT issues Request for Proposals (RFP) to the Finalists	03/24/2017	-----
h. Approximate ATC & one-on-one timeframe	04/24 - 05/26/2017	-----
i. Deadline for receipt of price and technical proposals	06/30/2017	11:00 A.M.
j. GDOT publically opening price proposals	07/21/2017	-----

Anticipated RFQ Evaluation Criteria

- **Must demonstrate required Consultant Area Classes**
- **Relevant project experience, qualifications, and availability of the:**
 - Lead Design Consultant Firm
 - Lead Design Consultant Project Manager
 - Lead Contracting Firm
 - Lead Contractor Project Manager
 - Select Key Team Leaders
- **Suitability to provide services for project**
- **Past performance**
- **Finalists 3-5 highest qualified teams**

Area Classes

Prime Consultant	
3.01	Two-Lane or Multi-Lane Rural Roadway Design
3.04	Multi-Lane Rural Interstate Limited Access Design
4.02	Major Bridge Design
Sub Consultant	
1.06(a)	NEPA
1.06(e)	Ecology
1.07	Public Involvement
3.07	Traffic Operations Design
3.10	Utility Coordination
3.12	Hydraulic and Hydrological Studies (Roadway)
3.15	Highway Lighting
5.01	Land Surveying
5.02	Engineering Surveying
6.01(a)	Soil Survey Studies
6.02	Bridge Foundation Studies
6.03	Hydraulic and Hydrologic Studies (Soils & Foundation)
9.01	Erosion, Sedimentation, and Pollution Control Plan
9.02	Rainfall and Runoff Reporting
9.03	Field Inspection for Erosion Control

Anticipated RFP Best Value Selection Criteria

Maximum Total Proposal Score is based on 1000 total points

- Technical Proposal - 50%
 - Maximum Technical Proposal score = 500 points
 - Evaluation Criteria will include:
 - Detailed Project Schedule/ Bridge Closure Duration (200 Points)
 - Construction Staging and Traffic and Pedestrian Management Plan (125 Points)
 - Project Management and Approach/Stakeholder Involvement and Public Outreach Plan (125 Points)
 - Technical Approach (50 Points)
- Price Proposal - 50%
 - Maximum Price Proposal score = 500 points
 - Price Proposal Score = $(\text{Price Proposal}_{\text{Lowest Bid}} \div \text{Price Proposal}_{\text{Respective Proposer's Bid}}) * 500$

Technical Proposal

Anticipated Evaluation Sections (RFP)

- Detailed Project Schedule/Bridge Closure Duration (200 points)
 - Bridge Closure shall not exceed 6 months (125 points)
 - Overall project duration should not exceed 18 months (75 points)
 - Measured in days

Technical Proposal

Anticipated Evaluation Sections (RFP)

- Construction Staging/Traffic and Pedestrian Management Plan (125 points)
- Project Management/Approach Stakeholder Involvement and Public Outreach Plan (125 points)
- Technical Approach (50 points)

Communications

Requirements for project success:

- Collaboration and cooperation between partners, stakeholders, and the community
- Communications plan development
- Proactive outreach to partners, stakeholders, and the community
- Effectively communicating to educate, inform and engage

Anticipated Best Value Criteria Example

Proposer	Technical Proposal (TS)	Price Proposal (PS)	Price	Highest Combined Score $CS = TS + PS$
1	275	500	\$15,000,000	775
2	425	375	\$20,000,000	800
3	450	300	\$25,000,000	750

Note: Above figures are provided as an example and do not reflect actual anticipated price.

Anticipated Stipulated Fee

- \$100,000 approved stipulated fee
- 0.4% of the anticipated Design-Build Contract Value per Table 1.2 of the Design-Build Manual below:

•Table 1.2 Stipulated Fee Amount

Design-Build Estimated Contract Value	Best Value	Two Phase Low Bid (w/ Shortlist)	Two Phase Low Bid (all qualified)	One Phase Low Bid
>\$50M	0.2 % Minimum 0.2 % Recommended	0.1 % Minimum 0.2 % Recommended	0.0 % Minimum 0.1 % Recommended	No Stipulated Fee
<\$50M	0.2 % Minimum 0.4 % Recommended	0.1 % Minimum 0.2 % Recommended	0.0 % Minimum 0.1 % Recommended	No Stipulated Fee

Stipulated Fee Requirements

In exchange for a Stipulated Fee, Proposers must turn over to the Department all project related information collected and prepared during the preparation of the price and technical proposal. This may include, but is not limited to:

- Approved Alternative Technical Concepts (ATC)
- Revised plan layouts
- Geo-technical data
- CAD files
- Detailed project schedule
- Record of correspondence with agencies

This information will be provided to the awarded Design-Build Team. The Department will also have the ability to negotiate approved ATCs from unsuccessful Proposers into the awarded Design-Build Team's contract to obtain additional value or cost savings for the Department.

Questions?

Procurement Inquiries

dbcourtland@dot.ga.gov

- **GDOT Design-Build Webpage**
- <http://www.dot.ga.gov/PS/Innovative/DesignBuild>
- **GDOT Design-Build SharePoint Site**
- <http://mydocs.dot.ga.gov/info/designbuild/default.aspx>