



FY2017 Design-Build Bridge Replacements & I-85 Corridor Bridges Industry Forum

December 6, 2016

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Andrew Hoenig, PE, Senior DB Project Manager
Tim Matthews, PE, Senior 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

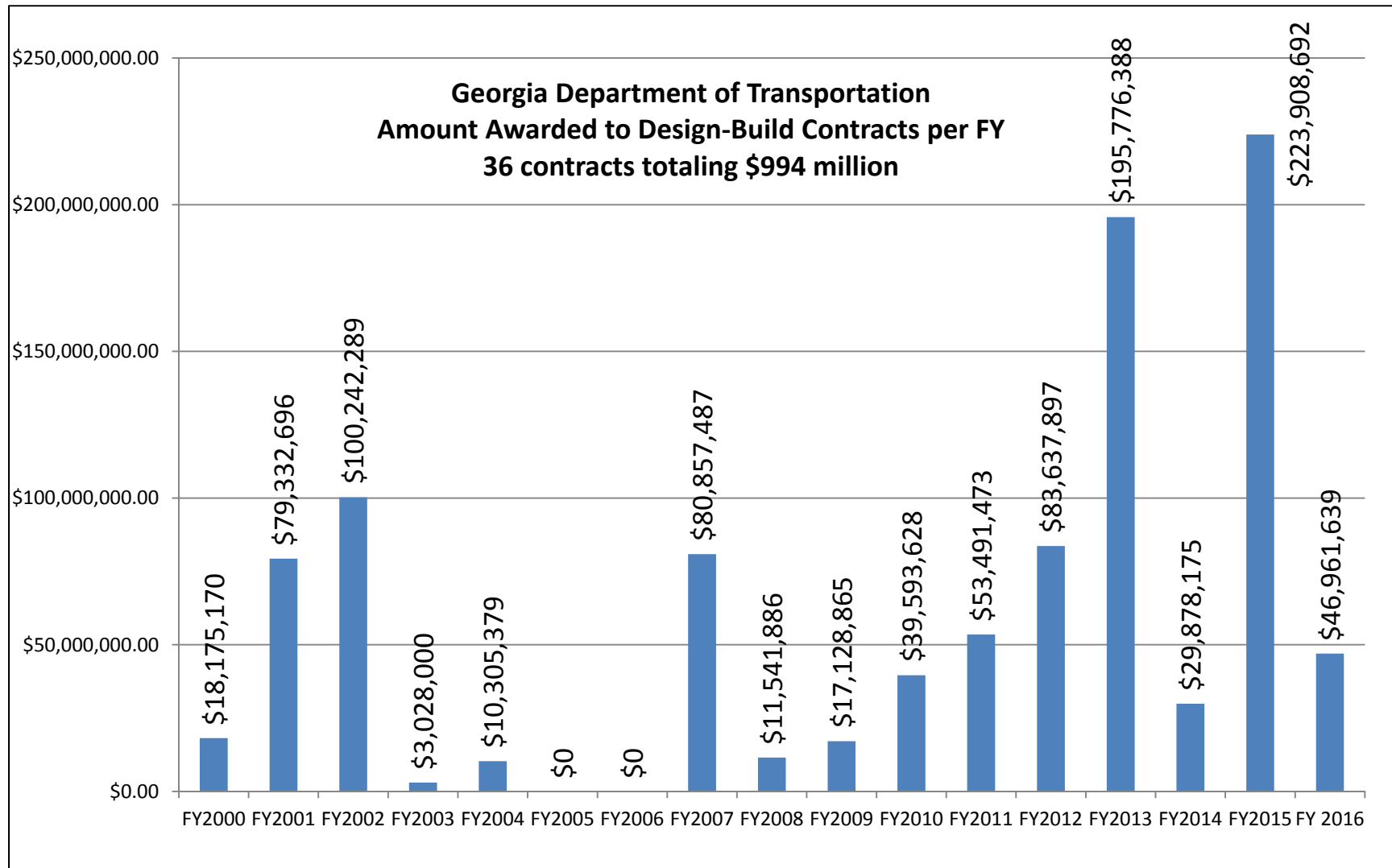
- Design-Build Overview
- FY17 Low-Impact Bridge Bundles
- I-85 Corridor Bridges project
- Schedule
- Open Discussion

Design-Build

- 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





FY2017 DB Bridge Replacements & I-85 Corridor Bridges

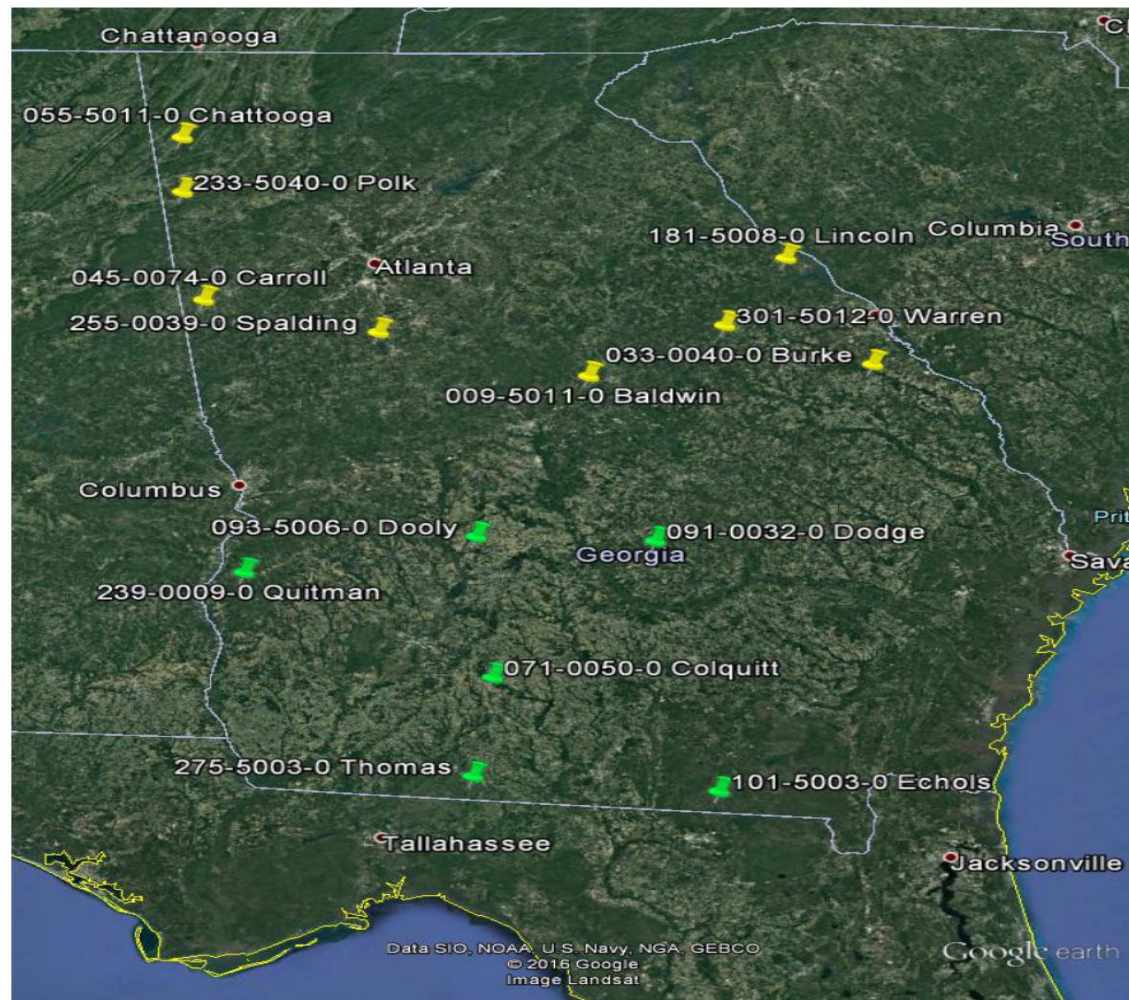
Andrew Hoenig – DB Bridge Replacement PM

Tim Matthews – I-85 Corridor Bridges PM

Project Overview

- State funds -> FY17 Batches
- Federal Funds -> I-85 Corridor
- Off-site detours (number of days will vary per site)
- Low impact (minimal utility, hydraulic & env impacts)
- No ROW
- FY17 to maintain existing profile (or minimum modification)
- I-85 bridges may need raised profile for vertical clearances
- DBE Goals

FY17 Bridge Locations



Google earth

miles 100 200
km





Anticipated Project Locations

	8 - Bridge Serial Number	Feature Carried	Feature Intersected	County	District	Floodway
North Georgia	181-5008-0	JONES MARTIN ROAD	DOZIER BRANCH	LINCOLN	2	ZONE X
	033-0040-0	QUAKER ROAD	WALNUT BRANCH	BURKE	2	Zone A
	255-0039-0	VAUGHN ROAD	HEADS CREEK	SPALDING	3	Zone A
	055-5011-0	GREEN ROAD	CHATTOOGA RIVE TRIB	CHATOOGA	6	ZONE X
	045-0074-0	YUS VEAL ROAD	BECKMAN CREEK	CARROLL	6	NOT MAPPED
	233-5040-0	MOUNTAIN HOME LOOP ROAD	LITTLE CEDAR CREEK	POLK	6	Zone A
	301-5012-0	ANSLEY ROAD	LONG CREEK	WARREN	2	Zone A
	009-5011-0	ROBERTS ROAD	FISHING CREEK	BALDWIN	2	Zone A
South Georgia	091-0032-0	MILAN-CHAUNCY ROAD	SUGAR CREEK	DODGE	2	Zone A
	093-5006-0	WEEKS ROAD	LILLY BRANCH	DOOLY	3	Zone A
	071-0050-0	DOERUN-NORMAN PARK	OKAPILCO CREEK	COLQUITT	4	Zone A
	239-0009-0	LOWER LUMPKIN RD	HODCHOOKEE CREEK	QUITMAN	4	Zone A
	101-5003-0	TOMS CREEK ROAD	TOMS CREEK	ECHOLS	4	Zone A
	275-5003-0	REICHERTVILLE RD	MCKEEVER SLOUGH CRK	THOMAS	4	Zone A

Fy17 Bridge Sites – North

Polk County



Polk County



Warren County



Polk County

Fy17 Bridge Sites - South

Quitman County



Colquitt County



Thomas County



Colquitt County

Risks and Mitigation Strategies (FY17)

Risk Item	Mitigation Measure
Geotechnical	Include geotechnical boring logs/samples in the RFP
Survey Database	Include survey database in the RFP
ROW	Off-site detour Evaluate constructability scenarios pre-let Obtain ROW certification from Locals during the RFP development
Environmental	Select locations with minimal environmental impacts Perform environmental screening pre-let RFP to include environmental related scope items RFP to include anticipated review/approval durations
Industry	Perform industry outreach early and actively listen
Design Variance Design Exception	Evaluate need for DV/DE during RFP development Include approved known instances of DV/DE in the RFP
Hydraulics	Select locations where FEMA coordination is not required Perform hydraulics screening during RFP development Include hydraulic memo in the RFP Pre-approve known hydraulic variance(s)

Risks and Mitigation Strategies (FY17)

Risk Item	Mitigation Measure
Locals Outreach/ Detour	Early and ongoing coordination with Locals during development of the RFP Obtain ROW certification from the Locals Post-let coordination with Locals regarding detour schedule
Cost Estimate	Continue to monitor industry trends
Detour Duration	Evaluate and establish reasonable durations to perform the work for each bridge relocation
Overall Contract Duration	Establish reasonable durations per contract in order to complete all of the work
Utilities	SUE QL-D Early coordination with utility owners Executed MOUs included in the RFP



I-85 Corridor Bridges

Tim Matthews – I-85 Corridor Bridges PM

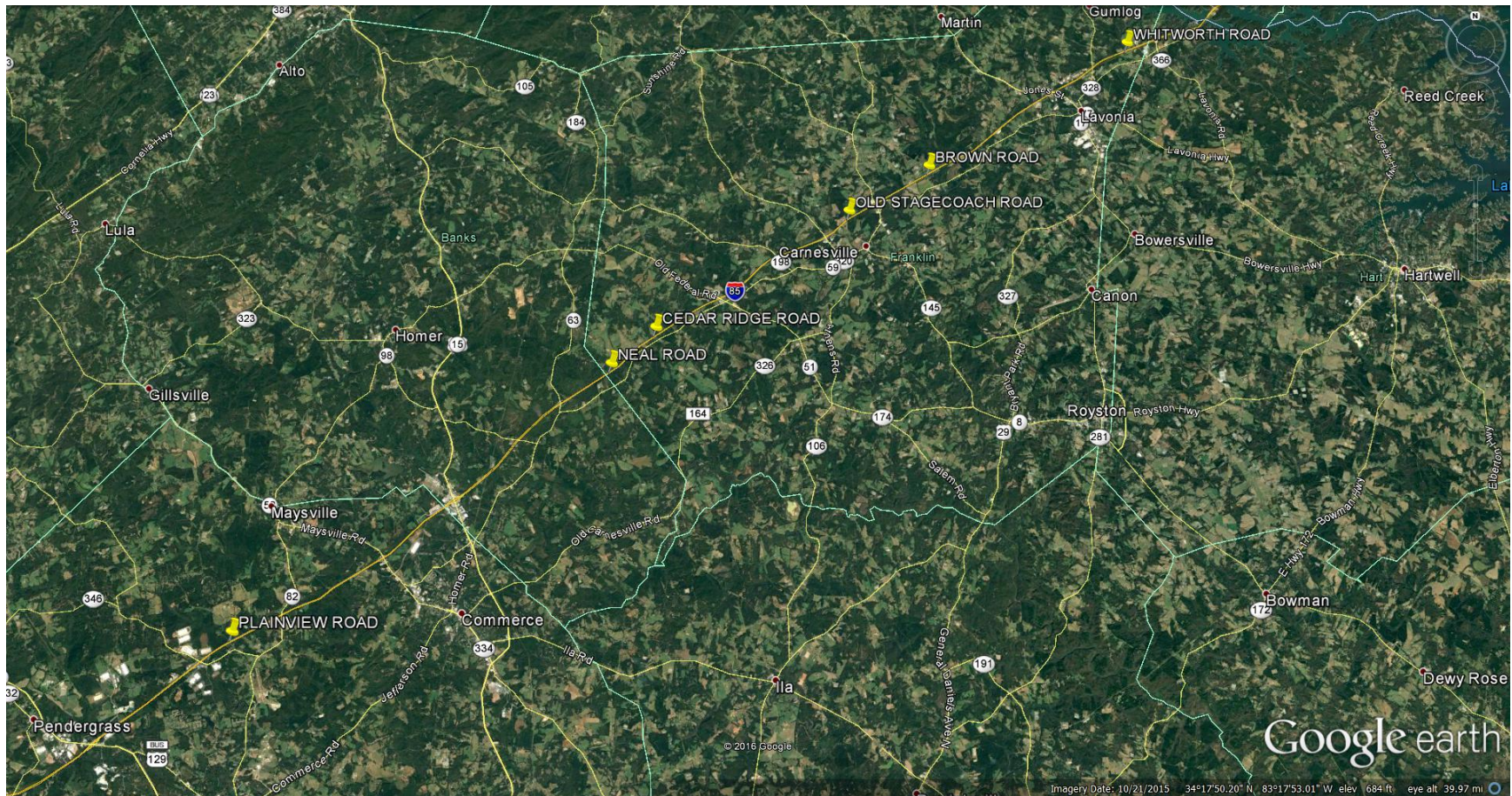
I-85 Corridor Bridges

Anticipated Locations

	Bridge Serial Number	Feature Carried	Feature Intersected	County	District	COUNTY RD
I-85 Corridor Bridges	157-0022-0	PLAINVIEW ROAD	I-85	JACKSON	1	250
	119-0025-0	NEAL ROAD	I-85	FRANKLIN	1	258
	119-0035-0	CEDAR RIDGE ROAD	I-85	FRANKLIN	1	387
	119-0023-0	OLD STAGECOACH ROAD	I-85	FRANKLIN	1	187
	119-0017-0	BROWN ROAD	I-85	FRANKLIN	1	97
	119-0016-0	WHITWORTH ROAD	I-85	FRANKLIN	1	84



I-85 Corridor Bridge Sites



Plainview Rd over I-85



Plainview Rd over I-85 con't



Neal Rd over I-85



Cedar Ridge Rd over I-85



Old Stagecoach Rd over I-85



Brown Rd over I-85

Brown Rd over I-85

Whitworth Rd over I-85

Risks and Mitigation Strategies (I-85 Corridor)

Risk Item	Mitigation Measure
Geotechnical	Include existing geotechnical information and BFI in the RFP
Survey Database	Using Existing Bridge Plans
ROW	Off-site detour Evaluate constructability scenarios pre-let Obtain Right-of-Entry certification from Locals during the RFP development
Environmental	Select locations with minimal environmental impacts Perform environmental screening pre-let RFP to include environmental related scope items RFP to include anticipated review/approval durations
Industry	Perform industry outreach early and actively listen
Design Variance Design Exception	Evaluate need for DV/DE during RFP development Include approved known instances of DV/DE in the RFP
Hydraulics	No Bridges over waterways

Risks and Mitigation Strategies (I-85 Corridor)

Risk Item	Mitigation Measure
Locals Outreach/ Detour	Early and ongoing coordination with Locals during development of the RFP Obtain Right-of-Entry certification from the Locals Post-let coordination with Locals regarding detour schedule
Cost Estimate	Continue to monitor industry trends
Detour Duration	Evaluate and establish reasonable durations to perform the work for each bridge relocation
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Utilities	SUE QL-D Early coordination with utility owners Executed MOUs included in the RFP

Roles and Responsibilities

- Design-Build Team
 - Schedule development/management
 - Bridge design
 - Geotechnical reports
 - Stream buffer variance application (if needed)
 - USACE permit preparation (FY17 project only)
 - Install & maintain detour signage
 - Utility/coordination and relocation (if needed)
 - Replace each bridge within allowable detour duration

- GDOT
 - Submittal reviews and Env Special Studies preparation/approval
 - Permit mitigation costs
 - Construction Oversight/CEI

Anticipated Procurement Process

- Two Phase Low Bid
 - All qualified – (Pass/Fail)
- Phase I - Request for Qualifications (RFQ)
 - Two RFQs will be advertised
 - FY17 bridge batches combined
 - I-85 Corridor will be separate RFQ & SOQ
 - Restriction on communications
 - One team may pursue one or both bridge “batches” (FY17 only)
 - Multiple Statement of Qualifications (SOQ) if different prime team members
- Phase II – Request For Proposals (RFP)
 - Three RFPs will be advertised

Anticipated Procurement Process

- Phase II - Request for Proposals (RFP)
 - April 21 – Issue RFPs
 - Advertised on Bid Express
 - RIDs on DB Secure Sharepoint site
 - **Price Proposal**
 - Submitted via Bid Express
 - Construction complete pay items per bridge site
 - **Technical Proposal**
 - Simple narrative describing approach to designing and constructing multiple bridges

Tentative Schedule

a. GDOT issues Public Notice Advertisement (PNA)	10/28/2016	-----
b. Industry Forum – GDOT Room 403/404	12/06/2016	10:00 A.M.
c. Industry one-on-one meetings – GDOT Room 407*	12/06/2016	12:00 - 4:00
d. GDOT issues Request for Qualifications (RFQ)	02/03/2017	-----
e. Deadline for the submission of written questions and Requests for Clarification	02/17/2017	-----
f. Deadline for Statement of Qualifications (SOQ)	03/03/2017	2:00 P.M.
g. GDOT issues the Notice to Finalists	04/10/2017	-----
i. GDOT issues Request for Proposals (RFP) to the Finalists	04/21/2017	-----
j. GDOT letting (receipt of bid/technical proposal from Finalists)	06/16/2017	-----

Questions?

- **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>