

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

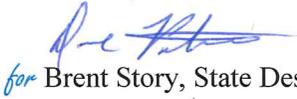
**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0013549

OFFICE Design Policy & Support

Chatham County
GDOT District 5 - Jesup
SR 21 Pedestrian Bridge @ CS 705/
Parkside Blvd in Port Wentworth

DATE 8/8/2016

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Ed David Adams, State Safety Program Manager
Richard Cobb, Location Bureau Chief
Brad Saxon, District Engineer
Troy Pittman, District Preconstruction Engineer
Joseph Capello, Area Engineer - D5, A5
Tim Matthews, Project Manager
BOARD MEMBER - 1st Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**INTEROFFICE CORRESPONDENCE
LOCATION AND DESIGN REPORT**

FILE PI# 0013549
Chatham County
Pedestrian Bridge DB Project

OFFICE Innovative Delivery
DATE 7/12/2016

The Design Build Project will construct a Pedestrian Bridge over SR 21 in the vicinity of the Rice Mill Road intersection in Port Wentworth, Georgia to provide access to the Rice Creek School. ADA Compliant Access Ramps will be constructed at both termini of the bridge.

FROM Darryl D. VanMeter, P.E., State Innovative Delivery Administrator

TO Brent Story, P.E., State Design Policy Engineer
Attn: Dave Peters, State Conceptual Design Group Manager

SUBJECT Request for Location and Design Approval

Description and Project Proposal: The Project is being procured to install a pedestrian bridge over SR 21 near the intersection of Rice Mill Road / Market Boulevard at SR 21. Sidewalks shall be installed to provide connectivity between the neighboring communities, the Pedestrian Bridge and Access Ramps, and the Rice Creek School property. The pedestrian bridge will serve the population of the neighboring communities and will provide a safer alternative for pedestrians to cross SR 21 while accessing Rice Creek School.

Concept Approval Date: July 12, 2016

Concept Update: N/A

Environmental Document: The project is state-funded and will not require a GEPA Document. Environmental Studies are required.

Approval Dates: NHPA: April 7, 2016
Historic Resources Survey Report: April 7, 2016
ARCH SFNF: May 13, 2016
ERS-AOER: June 6, 2016

Public Involvement: No Public Hearing or Public Information Meeting has been held.

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

Concur: Heidi Patel
GDOT Director of Engineering

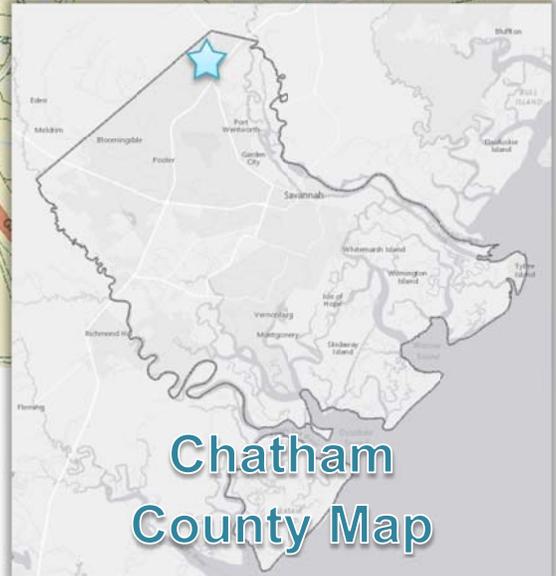
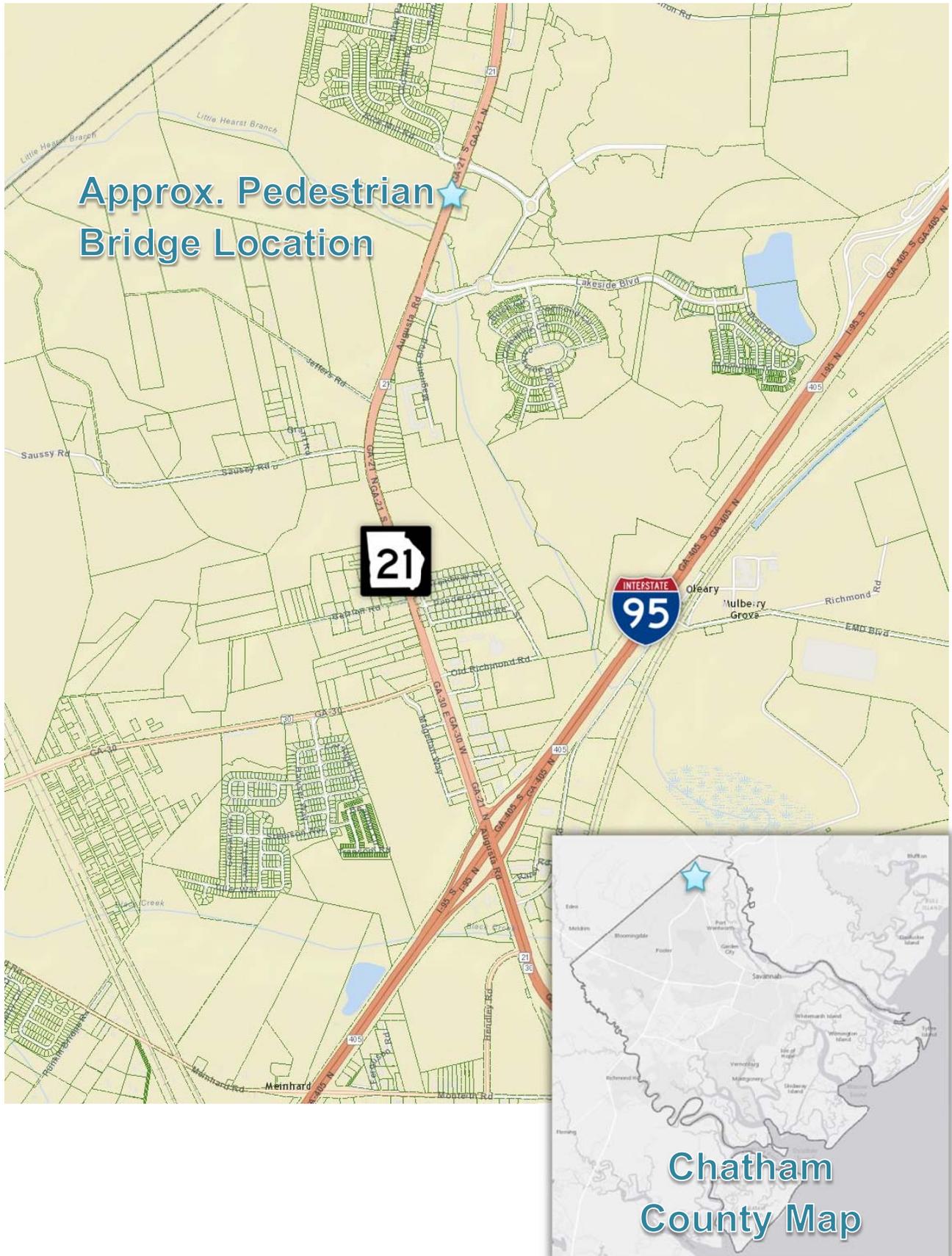
Approve: Margaret B. Pivke 8.5.16
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: August 8, 2016
(To be entered by State Conceptual Design Group Manager)

Attachments:

- Sketch Map
- Construction Cost Estimate
- Notice of Location and Design Approval

PROJECT LOCATION



DATE : 04/13/2016
PAGE : 1

JOB DETAIL ESTIMATE

JOB NUMBER : 0013549 - DB SPEC YEAR: 13
DESCRIPTION: SR 21 Pedestrian Bridge - DB

ITEMS FOR JOB 000013549 - DB

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0001	999-2010		LS	DESIGN COMPLETE	1.000	190701.00	190701.00
0002	999-2015		LS	CONSTRUCTION COMPLETE	1.000	3168079.00	3356759.00
ITEM TOTAL							3547460.00
INFLATED ITEM TOTAL							3547460.00
TOTALS FOR JOB 0013549 - DB							
ESTIMATED COST:							3547460.00
DESIGN CONTINGENCY (15.0):							503514.00
E&I (5.0):							167838.00
ESTIMATED TOTAL:							4218812.00

Project Cost Estimation Spreadsheet

<u>Project Identification</u>		SR 21 Pedestrian Bridge		
Description	Ped Bridge over SR 21 - Preferred Alt.		Proj. Type	
From Limit			District	5
To Limit				
SR 21	0.20	miles		
	0.00	miles	total	0.2

Cost Summary		per mile	Yr. of Exp.	Inflated Cost
Design Complete	\$190,701	\$ 953,505	2016	\$ 190,701
Construction Costs	\$2,195,081	\$ 10,975,407	2016	\$ 2,195,081
Utility Costs	\$658,524	\$ 3,292,620	2016	\$ 658,524
Construction Complete	\$2,853,605	\$ 14,268,027	2016	\$ 2,853,605
Construction Contingency	\$329,262	\$ 1,646,310	2016	\$ 329,262
E & I	\$109,754	\$ 548,770	2016	\$ 109,754
Landscape & Hardscape	\$188,680	\$ 943,400	2016	\$ 188,680
Right-of-Way	\$314,474	\$ 1,572,370	2016	\$ 314,474
Project Total	\$3,986,476	\$ 19,932,382	Total	\$3,986,476

Construction Costs

<u>Average Per Lane-Mile Components</u>	Unit Cost	Miles	Add Lanes	Lane-Miles	Cost
Surface Str. New Cst. base & pave	\$470,000			0	\$0
SR or High volume Rd widening	\$570,000			0	\$0
Surface Street Overlay	\$64,000			0	\$0
Concrete Widening (Ramps)	\$562,144			0	\$0
Cross Streets widening	\$352,500			0	\$0
			Factor		\$0
Cross Street Overlay	\$20,000				\$0
Traffic Control	\$150,000	0.20	3.00		\$90,000
Typical Driveways	\$75,000	0.00	0.00		\$0
Typical E & S Control Temp&Perm	\$150,000	0.20	4.00		\$120,000
Typical Earthwork	\$500,000	0.20	3.00		\$300,000
Typical Drainage - Urban Section	\$255,000	0.00	1.00		\$0
Typical Drainage - Rural Section	\$150,000	0.20	1.00		\$30,000
Curb & Gutter both sides (mile)	\$264,000	0.20	0.30		\$15,840
Concrete V Gutter	\$111,000	0.07	1.00		\$7,770
Signing & Marking	\$50,000				\$0
Typical Clear & Grub-120 ft wide	\$109,091	0.20	2.00		\$43,636
Typical Guardrail Type W	\$212,000				\$0
20ft. Raised median +C&G (mile)	\$698,000				\$0
Median landscaping	\$100,000				\$0
Sidewalks 5 ft. ea.side (mile)	\$294,000	0.19	1.00		\$55,860
ADA Ramps	\$1,500				\$0
				Subtotal	\$663,106
<u>Additional Per Mile Components</u>	Unit Cost	Length	factor		Cost
Add'l Major Earthwork (mile)	\$350,000				\$0
Add'l Major Drainage (mile)	\$150,000				\$0
Add'l Major Grade changes (mile)	\$350,000				\$0
Major alignment corrections (mile)	\$750,000				\$0
Maint of Traffic difficulty (mile)	\$200,000				\$0
Temporary Barrier	\$30				\$0
Add'l guardrail Type T (mile)	\$423,000				\$0
Paved Shoulders, 4 ft, 2 sides(mile)	\$100,000				\$0
Bikeway, 4 feet, both side (mile)	\$380,000				\$0
Add'l driveways (mile)	\$75,000				\$0
Cl. B Conc. Base or pvmt widening	\$792,000				\$0
Backfill Material (CY)	\$80	3250.00	1.00		\$260,000
Special E&S control	\$300,000				\$0
				Subtotal	\$260,000

Individual Components	Unit Cost	Length (ft)	Width (ft)	Ht (ft)	Cost
		0			\$0
Cast-in-Place Retaining Walls (LF)	\$690	1200			\$828,000
Retaining Walls-Special Design(SF)	\$60	0		0	\$0
Bridges - Pedestrian (SF)	\$200	180	10		\$360,000
Concrete Barrier Wall (LF)	\$60	220			\$13,200
Impact Attenuator (EA)	\$20,000	2			\$40,000
Guardrail Anchor Type 12 (EA)	\$2,500	1			\$2,500
Bridges - detour (SF)	\$60	0	0		\$0
Bridge Removal (SF)	\$25	0	0		\$0
Cofferdams (ea)	\$20,000	0			\$0
Box Culverts (SF)	\$95	0	0		\$0
MS4 Swale (each)	\$5,000	2			\$10,000
Chain Link Fence, 6 ft. 9 Gauge (LF)	\$45	275			\$12,375
Gate - Chain Link ZC Coat (EA)	\$900	1			\$900
Sediment/ detention ponds (ea)	\$30,000	0			\$0
Pavement patching (Sq yd)	\$30	0.00	1.00		\$0
Traffic Signalization / Upgrade (ea)	0	\$0	0		\$0
	\$125,000	0.04			\$5,000
				Subtotal	\$1,271,975
				Total Construction Cost	\$2,195,081
				Contingency 15%	\$329,262
				E & I 5%	\$109,754

Right-of-Way Costs

Area Type	Unit Cost (acre)	Miles	Width (ft)	Acres	Cost
Urban Residential	\$800,000	0	0	0.00	\$0
Easement Residential	\$240,000	0	0	0.00	\$0
Urban Commercial	\$1,200,000	0	0	0.00	\$0
Easement Commercial	\$360,000	0	0	0.00	\$0
Suburban/Rural Residential	\$400,000	0.026	90	0.28	\$113,455
Easement rural Residential	\$120,000	0.07	43	0.36	\$43,782
Suburban/Rural Commercial	\$800,000	0	0	0.00	\$0
Easement rural Commercial	\$240,000	0	0	0.00	\$0
Displacements		Number	factor		
Residential	\$250,000	0	1.00		\$0
Commercial	\$1,000,000	0	0		\$0
Damages	\$0	0	1.00		\$0
				ROW multiplier	2.0
				Total Right-of-Way Cost	\$314,474

Utility Costs

	30%	Total Utility Cost	\$658,524
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Design Complete

PE %	8%	Total Design Complete Cost	\$190,701
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Miscellaneous Costs

Landscape & Hardscape		Total Landscape & Hardscape Cost	\$188,680
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NOTICE OF LOCATION AND DESIGN APPROVAL
SR 21 AT CS 705/Parkside Blvd
in Port Wentworth Pedestrian Bridge Project
P. I. 0013549

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: August 8, 2016

The Project is being procured to install a pedestrian bridge over SR 21 near the intersection of Rice Mill Road / Market Boulevard at SR 21. Sidewalks shall be installed to provide connectivity between the neighboring communities, the Pedestrian Bridge and Access Ramps, and the Rice Creek School property. The pedestrian bridge will serve the population of the neighboring communities and will provide a safer alternative for pedestrians to cross SR 21 while accessing Rice Creek School. The project is located in Georgia Military District 8.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Joseph Capello
District 5, Area 5 Engineer
jcapello@dot.ga.gov
630 West Boundary Street
Savannah, GA 31401
(912) 651-2144

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Darryl D. VanMeter, P.E.
Office of Innovative Delivery
Attn: Tim Matthews, P.E.
tmatthews@dot.ga.gov
600 West Peachtree Street, NW
Atlanta, GA 30308
(404) 631-1713

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.