

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0008396 **OFFICE** Design Policy & Support
CSBRG-0008-00(396)
GDOT District 1 - Gainesville
Jackson County **DATE** October 24, 2011
CR 146 Galilee Church Road Bridge
Replacement over Middle Oconee River

FROM *Brent Story*
for 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:

Genetha Rice-Singleton, Program Control Administrator
Ron Wishon, State Project Review Engineer
Phil Copeland, State Right-of-Way Administrator
Glenn Bowman, State Environmental Administrator
Bobby Hilliard, State Program Delivery Engineer
Kathy Zahul, State Traffic Engineer
Cindy VanDyke, State Transportation Planning Administrator
Ken Thompson, Location Bureau Chief
Ben Rabun, State Bridge Engineer
Angela Robinson, Financial Management Administrator
Johnny Emmett, Area Engineer - D1, A6
Kim Coley, District Planning & Programming Engineer
Robert Mahoney, District Preconstruction Engineer
Todd McDuffie, District Engineer
Ryan Fernandez, Project Manager
BOARD MEMBER - 10th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE Project Number: CSBRG-0008-00(396) **OFFICE** Design
P. I. 0008396, Jackson County
Galilee Church Rd. Bridge Replacement **DATE** September 12, 2011
at Middle Oconee River

FROM Bobby Hilliard, P.E., State Program Delivery Engineer
Bobby Hilliard for

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

SUBJECT Request for Location and Design Approval

Description and Project Proposal: This project consists of the replacement of the Galilee Church Road (CR 146) Bridge over Middle Oconee River in Jackson County. The project would improve approximately 0.23 miles of roadway from milepost 1.24 to 1.47 to provide two 11-foot lanes with 6-foot shoulders (2-1/2-foot paved and 3-1/2-foot grass). The existing bridge, which has a sufficiency rating of 20.11, would be replaced with a slightly higher and wider bridge providing two 11-foot lanes and 8-foot shoulders.

Concept Approval Date: June 25, 2009

Categorical Exclusion Approval Date: July 12, 2011

Public Involvement: A Public Information Open House (PIOH), advertised as a Detour Open House, was held at the Galilee Christian Church meeting hall on February 24th, 2009. A detour map and an overall project map were on display. Two public officials were in attendance: Darrell Hampton, Jackson County Manager and Larry Guthrie, Jackson County Road Department. Brandee A. Thomas from the Gainesville Times also attended the meeting.

Out of the twenty attendees, two comment forms, zero letters, and zero verbal statements were received. No additional comments were received during the 10-day period following the PIOH for a total of two comments. One comment supported the project and the other opposed the project. The opposed comment was in fact a conditional comment based on the written statements on the comment card. The respondent wanted the name plaques at each of the bridge to be returned to the family of Joe A. Johnson if they were not to be used on the new bridge. The plaques have since been returned to the Johnson family through coordination with the Jackson County Road Department.

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

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

RECOMMEND: Bill R McManis
Director of Engineering

APPROVE: David M. Don 10-20-11
Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: October 24, 2011
(To be entered by the State Conceptual Design Group Manager)

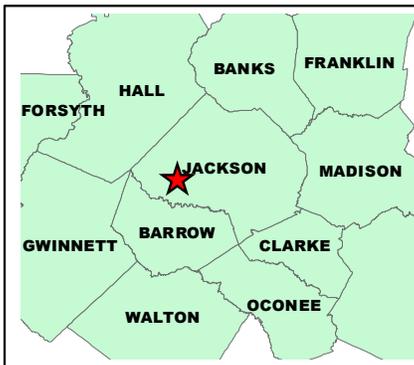
Attachments:

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



Source: Jackson County GIS

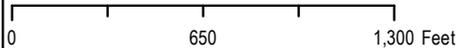
9-12-11



Project Location Map



Project Alignment



CSBRG-0008-00(396)

PI#0008396

CR 146/Galilee Church Road
at Middle Oconee River

Jackson County, Georgia



COST ESTIMATE

Galilee Church Road over Middle Oconee River

Project CSBRG-0008-00(396)

PI No. 0008396, Jackson County

CONTINGENCY SUMMARY

July 2011

Project CSBRG-0008-00(396)

PI 008396, Jackson County

Galilee Church Road Bridge Replacement over Middle Oconee River

Construction Cost Estimate : \$ 1,566,545

Engineering and Inspection (5%) : \$ 78,327

Construction Contingency (4%) : \$ 62,662

Total Fuel Adjustment : \$ 40,947

Total Liquid AC Adjustment : \$ 26,501

Construction Total : \$ 1,774,982

JOB ESTIMATE REPORT

JOB NUMBER : 008396

DESCRIPTION: GALILEE CHURCH RD.

SPEC YEAR: 01

ITEMS FOR JOB 008396

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0010	500-0100		SY	GROOVED CONCRETE	1140.000	4.74	5404.31
0015	500-1006		LS	SUPERSTR CONCRETE, CL AA, BR NO - BRIDGE 1	1.000	308660.00	308660.00
0020	500-2100		LF	CONCRETE BARRIER	553.000	41.26	22819.10
0025	500-3002		CY	CL AA CONCRETE	213.000	433.56	92349.22
0030	507-9002		LF	PSC BEAMS,AASHTO TP II, BR NO- BRIDGE 1	1310.000	93.86	122969.49
0035	507-9003		LF	PSC BEAMS,AASHTO TP III, BR NO- BRIDGE 1	613.000	114.60	70255.35
0040	511-1000		LB	BAR REINF STEEL	33104.000	0.61	20301.03
0045	511-3000		LS	SUPERSTR REINF STEEL, BR NO - BRIDGE 1	1.000	58687.20	58687.20
0059	520-1125		LF	PIL-IN-PL, STEEL H, HP 12 X 53	430.000	41.45	17826.61
0064	520-4125		EA	LOAD TEST, STEEL H, HP 12 X 53	1.000	0.84	0.85
0069	524-0010		LF	DRIILLED CAISSON - 54 IN	228.000	638.45	145567.14
0070	540-1102		LS	REM OF EX BR, BR NO - BRIDGE 1	1.000	159720.00	159720.00
0075	603-2024		SY	STN DUMPED RIP RAP TP 1, 24"	1360.000	37.98	51655.49
0080	603-7000		SY	PLASTIC FILTER FABRIC	1360.000	3.32	4516.02
0085	150-1000		LS	TRAFFIC CONTROL - PROJECT	1.000	101050.00	101050.00
0090	153-1100		EA	CSBRG-0008-00(396)	1.000	20000.00	20000.00
0095	210-0100		LS	FIELD ENGINEERS OFFICE TP 1	1.000	58200.00	58200.00
0104	310-1101		TN	GR AGGR BASE CRS, INCL MATL	4640.000	16.41	76188.34
0105	318-3000		TN	AGGR SURF CRS	195.000	16.15	3151.19
0109	402-3102		TN	REC AC 9.5 MM SP, TPI I, BL 1 INCL BM & HL	230.000	69.00	15872.27
0115	402-3121		TN	RECYL AC 25MM SP, GP1/2, BM&HL	1220.000	61.93	75560.24
0125	402-3190		TN	RECYL AC 19 MM SP, GP 1 OR 2, INC BM&HL	350.000	68.37	23931.56
0130	413-1000		GL	BITUM TACK COAT	645.000	2.69	1736.04
0135	433-1000		SY	REINF CONC APPROACH SLAB	275.000	158.49	43586.98
0144	441-0301		EA	CONC SPILLWAY, TP 1	2.000	1811.33	3622.67
0145	550-1180		LF	STM DR PIPE 18", H 1-10	50.000	30.55	1527.80
0149	550-2180		LF	SIDE DR PIPE 18", H 1-10	100.000	27.29	2729.38
0150	550-3618		EA	SAFETY END SECTION 18", SD, 6:1	4.000	610.40	2441.63
0154	550-4218		EA	FLARED END SECT 18 IN, ST DR	2.000	469.79	939.60
0155	641-1100		LF	GUARDRAIL, TP T	84.000	58.31	4898.56
0160	641-1200		LF	GUARDRAIL, TP W	430.000	15.96	6863.80
0165	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	4.000	607.95	2431.83
0170	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	1.000	1911.51	1911.51
0175	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	1000.000	1.52	1525.75
0180	636-1020		SF	HWY SGN, TP1MAT, REFL SH TP3	23.000	16.01	368.26
0185	636-1033		SF	HWY SIGNS, TP1MAT, REFL SH TP 9	30.000	20.80	624.04
0190	636-2070		LF	GALV STEEL POSTS, TP 7	95.000	8.12	772.03
0195	636-2080		LF	GALV STEEL POSTS, TP 8	70.000	8.69	608.84
0200	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	2000.000	0.46	930.14

STATE HIGHWAY AGENCY

DATE : 07/29/2011
PAGE : 2

JOB ESTIMATE REPORT

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
0205	653-1502	LF	2000.000	0.41	838.92
0210	654-1001	EA	40.000	4.70	188.08
0215	657-1085	LF	800.000	5.73	4588.30
0220	657-6085	LF	800.000	5.69	4557.66
0225	163-0232	AC	1.000	376.87	376.87
0230	163-0240	TN	6.000	237.34	1424.07
0235	163-0300	EA	2.000	1154.95	2309.91
0240	163-0503	EA	2.000	390.57	781.15
0245	163-0523	EA	45.000	166.64	7498.80
0250	163-0550	EA	2.000	133.36	266.73
0255	165-0010	LF	1790.000	0.58	1049.26
0260	165-0030	LF	490.000	0.84	415.50
0265	165-0041	LF	450.000	1.18	531.43
0270	165-0087	EA	2.000	132.26	264.52
0275	165-0101	EA	2.000	502.19	1004.39
0280	165-0105	EA	2.000	51.82	103.64
0285	171-0010	LF	1790.000	1.48	2649.97
0290	171-0030	LF	490.000	3.02	1481.64
0295	603-2181	SY	15.000	43.33	650.04
0300	700-6910	AC	1.000	597.37	597.38
0305	700-7000	TN	1.000	74.40	74.40
0310	700-8000	TN	1.000	348.74	348.74
0315	715-2200	SY	260.000	1.52	395.61
0320	716-2000	SY	1950.000	0.99	1943.96
ITEM TOTAL					1566545.21
INFLATED ITEM TOTAL					1566545.21
TOTALS FOR JOB 008396					
ESTIMATED COST:					1566545.24
CONTINGENCY PERCENT (0.0):					0.00
ESTIMATED TOTAL:					1566545.24

P.I. Number 8396

County Jackson

Project Number CSBRG-0008-00(396)

Special Provision, Section 109-Measurement and Payment
FUEL PRICE ADJUSTMENT (*ENGLISH 125% MAX*)

ENTER FPL DIESEL	2.19
ENTER FPM DIESEL	4.928

ENTER FPL UNLEADED	1.926
ENTER FPM UNLEADED	4.3335

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

INCREASE ADJUSTMENT
125.00%

INCREASE ADJUSTMENT
125.00%

ROADWAY ITEMS	QUANTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)		0.29		0.15		
Excavations paid as specified by Sections 206 (CUBIC YARD)		0.29		0.15		
GAB paid as specified by the ton under Section 310 (TON)	3061.000	0.29	887.69	0.24	734.64	
Hot Mix Asphalt paid as specified by the ton under Sections 400 (TON)		2.90		0.71		
Hot Mix Asphalt paid as specified by the ton under Sections 402 (TON)	1179.000	2.90	3419.10	0.71	837.09	
PCC Pavement paid as specified by the square yard under Section 430 (SY)		0.25		0.20		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211	73.00	37.16	2.7127	8.00	21.70	1.50	4.07	
Class __Concrete (CY) Section 500	376.00	692.53	260.3913	8.00	2083.13	1.50	390.59	
Class __Concrete (CY) Section 500				8.00		1.50		
Class __Concrete (CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500	275.00	1,122.40	308.6600	8.00	2469.28	1.50	462.99	
Superstru Con Class__(CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Concrete Handrail (LF) Section 500				8.00		1.50		
Concrete Barrier (LF) Section 500	570.00	43.04	24.5328	8.00	196.26	1.50	36.80	

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
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Stru Steel <u>Plan Quantity</u> (LB) Section 501				8.00		1.50	
Stru Steel <u>Plan Quantity</u> (LB) Section 501				8.00		1.50	
PSC Beams____ (LF) Section 507	1365.00	126.40	172.5360	8.00	1380.29	1.50	258.80
PSC Beams____ (LF) Section 507	630.00	145.81	91.8603	8.00	734.88	1.50	137.79
PSC Beams____ (LF) Section 507				8.00		1.50	
Stru Reinf <u>Plan Quantity</u> (LB) Section 511	61776.00	0.95	58.6872	8.00	469.50	1.50	88.03
Stru Reinf <u>Plan Quantity</u> (LB) Section 511				8.00		1.50	
Bar Reinf Steel (LB) Section 511	60091.00	0.96	57.6874	8.00	461.50	1.50	86.53
Piling____inch (LF) Section 520	2700.00	58.18	157.0860	8.00	1256.69	1.50	235.63
Piling____inch (LF) Section 520				8.00		1.50	
Piling____inch (LF) Section 520				8.00		1.50	
Piling____inch (LF) Section 520				8.00		1.50	
Piling____inch (LF) Section 520				8.00		1.50	
Piling____inch (LF) Section 520				8.00		1.50	
Drilled Caisson,____ (LF) Section 524				8.00		1.50	
Drilled Caisson,____ (LF) Section 524				8.00		1.50	
Drilled Caisson,____ (LF) Section 524				8.00		1.50	
Pile Encasement,____(LF) Section 547				8.00		1.50	
Pile Encasement,____(LF) Section 547				8.00		1.50	

SUM QF DIESEL=	13380.02	SUM QF UNLEADED=	3272.96
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DIESEL PRICE ADJUSTMENT(\$)	\$33,697.58
UNLEADED PRICE ADJUSTMENT(\$)	\$7,249.28

ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX)

APPLICABLE TO CONTRACTS/PROJECTS CONTAINING THE 413 SPECIFICATION, SECTION 413.5.01 ADJUSTMENTS
ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

ENTER APL

ENTER APM

125.00%	INCREASE ADJUSTMENT
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L.I.N.	TYPE	TACK (GALLONS)	TACK (TONS)	REMARKS
413-1000		24	0.1031	
			TMT = <input style="width: 50px;" type="text" value="0.1031"/>	

PRICE ADJUSTMENT(\$)	\$43.91
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400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX

ENTER APL

ENTER APM

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

125.00%	INCREASE ADJUSTMENT
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L.I.N. / Spec Number	MIX TYPE	HMA	JMF AC%	AC	REMARKS
402-3121	25 mm SP	673	5.00	33.65	
402-3130	12.5 mm SP	253	5.00	12.65	
402-3190	19 mm SP	253	5.00	12.65	
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			TMT =	<input style="width: 50px;" type="text" value="58.95"/>	

PRICE ADJUSTMENT(\$)	\$26,456.76
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ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)

APPLICABLE TO CONTRACTS CONTAINING THE 413 SPEC. SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

ENTER APL

ENTER APM

125.00%	INCREASE ADJUSTMENT
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Use this side for Asphalt Emulsion Only		
L.I.N.	TYPE	ASPHALT EMULSION (GALLONS)
TMT =		<input style="width: 100px;" type="text"/>
REMARKS:		

Use this side for Asphalt Cement Only		
L.I.N.	TYPE	TACK (GALLONS)
TMT =		<input style="width: 100px;" type="text"/>
REMARKS:		

MONTHLY PRICE ADJUSTMENT(\$)	
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ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (<i>ENGLISH 125% MAX</i>)	
DIESEL PRICE ADJUSTMENT(\$)	<u>\$33,697.58</u>
UNLEADED PRICE ADJUSTMENT(\$)	<u>\$7,249.28</u>
ASPHALT CEMENT PRICE ADJUSTMENT (<i>BITUMINOUS TACK COAT 125% MAX</i>)	<u>\$43.91</u>
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT <i>125% MAX</i>	<u>\$26,456.76</u>
ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(<i>Surface Treatment 125% MAX</i>)	

REMARKS:	
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TOTAL ADJUSTMENTS	\$67,447.53
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Preliminary Right of Way Cost Estimate

Date: June 9, 2009
Project: CSBRG-0008-00 (396) **P.I. Number** 008396
Existing/Required R/W: Varies / Varies **No. Parcels** 3
Project Termini: Galilee Church Road: approx. 450' South of the bridge over the Middle Oconee River to 750' North of the bridge
Project Description: Galilee Church Road Bridge Replacement at Middle Oconee River in Jackson Co.

Fee Simple:

Small Rural Residential	0 sf	@ \$	0.57 /sf = \$	0	
Lg. Rural Res / Agricultural	0 sf	@ \$	0.34 /sf = \$	0	
					\$ 0

Permanent Construction Easement:

Small Rural Residential	12,816 sf	@ \$	0.29 /sf = \$	3,717	
Lg. Rural Res / Agricultural	11,919 sf	@ \$	0.17 /sf = \$	2,026	
TOTAL					\$ 5,743

Improvements:

0 Residential	=	\$	0	
0 Commercial	=	\$	0	
TOTAL				\$ 0

Relocation:

0 Residential	=	\$	0	
0 Commercial	=	\$	0	
TOTAL				\$ 0

Damages:

Proximity -	0 Parcels	\$	0	
Consequential -	0 Parcels	\$	0	
Cost to Cure -	0 Parcels	\$	0	
TOTAL				\$ <u>0</u>

SUB-TOTAL \$ 5,743

Net Cost		\$	5,743
Scheduling Contingency	55%	\$	3,159
Adm/Court Cost	60%	\$	5,341
		\$	14,243

Total Cost

\$ 15,000

Prepared By : John G. Simshauser
 John G. Simshauser, Cert. No. 2772
 Moreland Altobelli Associates, Inc.

Reviewed / Approved: Howard P. Copeland
 Howard P. Copeland
 R/W Administrator

Note: Accuracy of estimate is the sole responsibility of the Preparer.
 Note: The Market Appreciation (40%) is not included in this Preliminary Cost Estimate.

NOTICE OF LOCATION AND DESIGN APPROVAL

Project CSBRG-0008-00(396), Jackson County P.I. 0008396

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 approval is October 24, 2011.

This project is located within Jackson County; Congressional District No. 10. This project is located in the Georgia Militia District 245.

This project consists of the replacement of the Galilee Church Road (CR 146) Bridge over Middle Oconee River in Jackson County. The project would improve approximately 0.23 miles of roadway from milepost 1.24 to 1.47 to provide two 11-foot lanes with 6-foot shoulders (2-1/2-foot paved and 3-1/2-foot grass). The existing bridge, which has a sufficiency rating of 20.11, would be replaced with a slightly higher and wider bridge providing two 11-foot lanes and 8-foot shoulders.

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:

Mr. Tony Voyles
E-mail Address: tvoyles@dot.ga.gov
Georgia Department of Transportation
District 1 – Area 6 Engineer
450 Old Hull Rd.
Athens, GA 30601
(706) 583-2644

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and submitting a written request to:

Mr. Ryan Fernandez
Georgia Department of Transportation
Office of Program Delivery – 25th Floor
One Georgia Center
600 West Peachtree St. NW
Atlanta, Georgia 30308
E-mail Address: rfernandez@dot.ga.gov
Telephone: 404-631-1162

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.