

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0007156 **OFFICE** Design Policy & Support
CSBRG-0007-00(156)
Banks County
GDOT District 1 - Gainesville **DATE** June 2, 2015
SR 98 Bridge Replacement @ Hickory Level Creek

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:

Glenn Bowman, 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
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Robert Elam, Design Group Manager
Richard Cobb, Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Kim Coley, District Planning & Programming Engineer
Tony Voyles, Area Engineer - D1, A3
Davida White, Project Manager
BOARD MEMBER - 9th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTEROFFICE CORRESPONDENCE
LOCATION AND DESIGN REPORT

FILE P.I. No. 0007156
CSBRG-0007-00(156)
Banks County
SR 98 at Hickory Level Creek

OFFICE Program Delivery

DATE 4/28/2015

FROM Albert V. Shelby, III, State Program Delivery Engineer

Albert Shelby

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: This project is the replacement of a load limited bridge on SR 98 over Hickory Level Creek, 3.5 miles southwest of Homer, Georgia. The existing bridge, constructed in 1967, has a sufficiency rating of 47.4. The construction proposes a new 140' long by 43.25' wide concrete bridge over Hickory Level Creek at the existing bridge site. Traffic will be maintained during construction utilizing an on-site detour bridge. The total project length is approximately 0.464 miles which includes the staging tapers.

Concept Approval Date: January 15, 2013

Concept Update: N/A

Environmental Document:

Document Type: Categorical Exclusion

Approval Date: April 22, 2015

Temporary State Route Needed: No Yes Undetermined

Public Involvement: N/A

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: *Mike Bon*
GDOT Director of Engineering

Approve: *Margaret B. Pikel* *5.27.15*
GDOT Chief Engineer Date

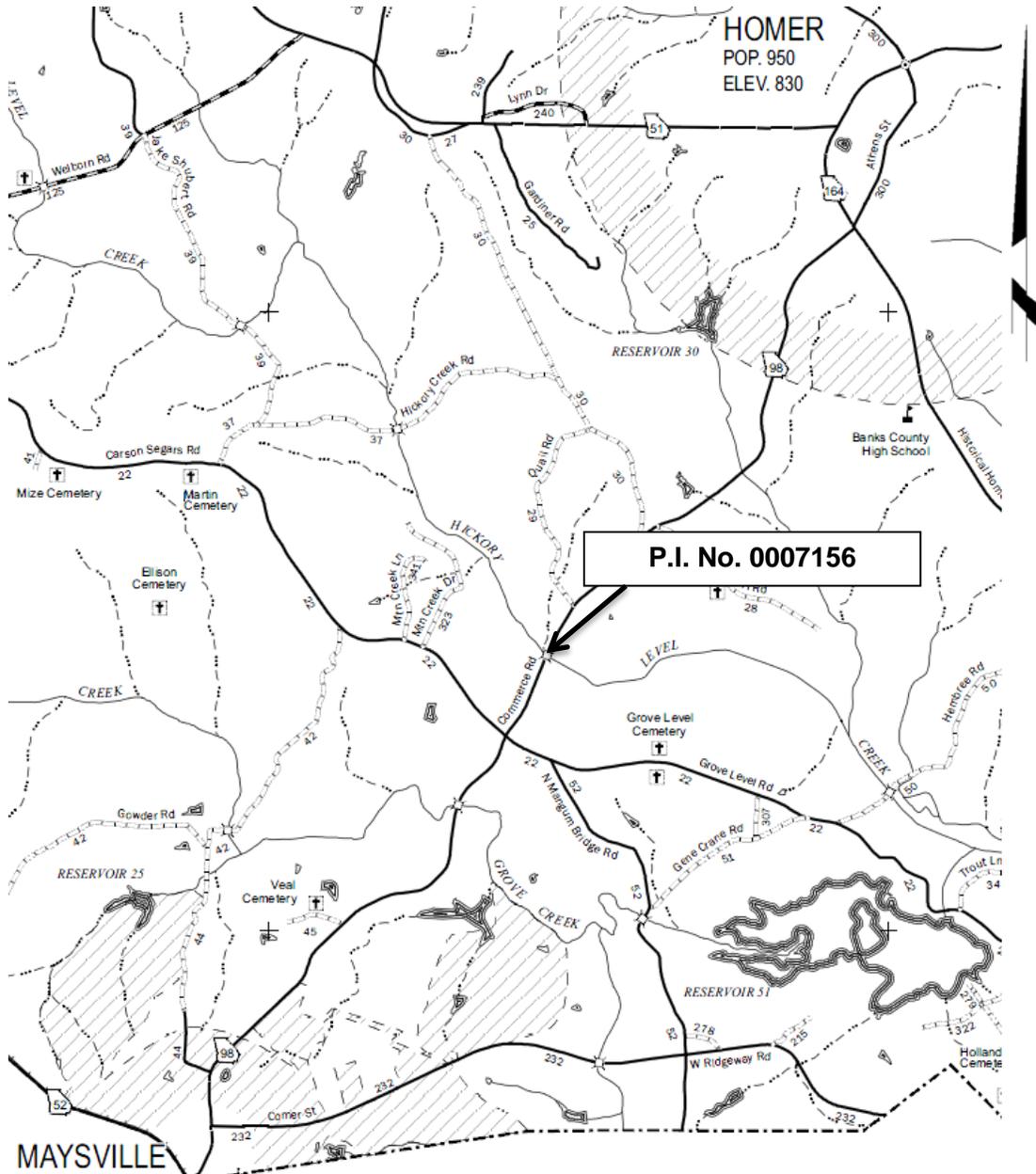
DATE OF LOCATION AND DESIGN APPROVAL:

June 2, 2015
(To be entered by State Conceptual Design Group Manager)

Attachments:

- Sketch Map
- Construction Cost Estimate & Liquid Fuel AC
- Notice of Location and Design Approval

SKETCH MAP



DETAILED COST ESTIMATE



Job: 0007156

JOB NUMBER 0007156

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: SR 98 @ HICKORY LEVEL CREEK

ITEMS FOR JOB 0007156

0010 - ROADWAY ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$75,000.00000	TRAFFIC CONTROL - CSBRG-0007-00(156)	\$75,000.00
0010	153-1300	1.000	EA	\$77,815.22833	FIELD ENGINEERS OFFICE TP 3	\$77,815.23
0015	210-0100	1.000	LS	\$150,000.00000	GRADING COMPLETE - CSBRG-0007-00(156)	\$150,000.00
0020	310-1101	3159.000	TN	\$17.75972	GR AGGR BASE CRS, INCL MATL	\$56,102.96
0025	402-3103	491.000	TN	\$74.23626	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	\$36,450.00
0035	402-3121	735.000	TN	\$64.85782	RECYL AC 25MM SP,GP1/2,BM&HL	\$47,670.50
0034	402-3130	223.000	TN	\$73.89893	RECYL AC 12.5MM SP,GP2,BM&HL	\$16,479.46
0030	402-3190	794.000	TN	\$67.59967	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$53,674.14
0040	413-1000	1079.000	GL	\$2.61834	BITUM TACK COAT	\$2,825.19
0044	432-5010	1620.000	SY	\$5.05162	MILL ASPH CONC PVMT,VARB DEPTH	\$8,183.62
0045	433-1000	283.000	SY	\$126.08998	REINF CONC APPROACH SLAB	\$35,683.46
0050	456-2015	1.000	GLM	\$5,608.47326	INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	\$5,608.47
0304	610-0300	813.000	LF	\$1.69334	REM FENCE - CSBRG-0007-00(156)	\$1,376.69
0054	620-0100	2985.000	LF	\$22.68430	TEMP BARRIER, METHOD NO. 1	\$67,712.64
0055	634-1200	20.000	EA	\$94.80242	RIGHT OF WAY MARKERS	\$1,896.05
0060	641-1100	200.000	LF	\$51.09781	GUARDRAIL, TP T	\$10,219.56
0065	641-1200	1023.000	LF	\$15.96659	GUARDRAIL, TP W	\$16,333.82
0070	641-5001	2.000	EA	\$591.19111	GUARDRAIL ANCHORAGE, TP 1	\$1,182.38
0075	641-5012	2.000	EA	\$1,820.62547	GUARDRAIL ANCHORAGE, TP 12	\$3,641.25
0299	643-0010	775.000	LF	\$6.48978	FIELD FENCE WOVEN WIRE	\$5,029.58
0080	643-8200	321.000	LF	\$1.98500	BARRIER FENCE (ORANGE), 4 FT	\$637.19
0084	648-1350	10.000	EA	\$14,953.75000	IMPACT ATT UNIT, TP-P- CSBRG-0007-00(156)	\$149,537.50
SUBTOTAL FOR ROADWAY ITEMS:						\$823,059.69

0020 - PERM EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0085	167-1000	2.000	EA	\$610.70939	WATER QUALITY MONITORING AND SAMPLING	\$1,221.42
0090	167-1500	18.000	MO	\$509.70471	WATER QUALITY INSPECTIONS	\$9,174.68
0095	700-6910	5.000	AC	\$446.35394	PERMANENT GRASSING	\$2,231.77
0129	700-7000	12.000	TN	\$64.41512	AGRICULTURAL LIME	\$772.98
0134	700-8000	6.000	TN	\$403.62785	FERTILIZER MIXED GRADE	\$2,421.77
0139	700-8100	350.000	LB	\$2.33943	FERTILIZER NITROGEN CONTENT	\$818.80
SUBTOTAL FOR PERM EROSION CONTROL:						\$16,641.42

DETAILED COST ESTIMATE



Job: 0007156

0030 - TEMP EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0154	163-0232	3.000	AC	\$400.62500	TEMPORARY GRASSING	\$1,201.88
0159	163-0240	21.000	TN	\$287.85204	MULCH	\$6,044.89
0149	163-0300	4.000	EA	\$1,166.06677	CONSTRUCTION EXIT	\$4,664.27
0229	163-0520	100.000	LF	\$12.84655	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$1,284.66
0098	163-0527	10.000	EA	\$266.95992	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$2,669.60
0109	163-0528	1140.000	LF	\$3.61946	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$4,126.18
0099	163-0529	250.000	LF	\$3.46743	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$866.86
0114	163-0541	8.000	EA	\$320.07277	CONSTR & REM ROCK FILTER DAMS	\$2,560.58
0234	163-0543	100.000	LF	\$36.50000	CONSTR & REM STONE FILTER BERM	\$3,650.00
0164	165-0030	3025.000	LF	\$0.71996	MAINT OF TEMP SILT FENCE, TP C	\$2,177.88
0119	165-0041	1240.000	LF	\$1.05042	MAINT OF CHECK DAMS - ALL TYPES	\$1,302.52
0104	165-0071	250.000	LF	\$1.19727	MAINT OF SEDIMENT BARRIER - BALED STRAW	\$299.32
0144	165-0101	4.000	EA	\$631.43061	MAINT OF CONST EXIT	\$2,525.72
0124	165-0110	8.000	EA	\$152.17224	MAINT OF ROCK FILTER DAM	\$1,217.38
0169	171-0030	6045.000	LF	\$3.05165	TEMPORARY SILT FENCE, TYPE C	\$18,447.22
0174	716-2000	2739.000	SY	\$1.00089	EROSION CONTROL MATS, SLOPES	\$2,741.44
SUBTOTAL FOR TEMP EROSION CONTROL:						\$65,780.40

0040 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0179	636-1020	5.000	SF	\$16.21698	HWY SGN,TP1MAT,REFL SH TP3	\$81.08
0184	636-1033	18.000	SF	\$21.38124	HWY SIGNS, TP1MAT,REFL SH TP 9	\$384.86
0189	636-2070	43.000	LF	\$8.34401	GALV STEEL POSTS, TP 7	\$358.79
0194	653-1501	2596.000	LF	\$0.45923	THERMO SOLID TRAF ST 5 IN, WHI	\$1,192.16
0199	653-1502	2596.000	LF	\$0.42334	THERMO SOLID TRAF ST, 5 IN YEL	\$1,098.99
0204	654-1001	36.000	EA	\$5.12087	RAISED PVMT MARKERS TP 1	\$184.35
0209	657-1054	400.000	LF	\$4.49295	PRF PL SD PVMT MKG,5",WH,TP PB	\$1,797.18
0214	657-6054	400.000	LF	\$4.71356	PRF PL SD PVMT MKG,5",YW,TP PB	\$1,885.42
SUBTOTAL FOR SIGNING AND MARKING:						\$6,982.83

0050 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0239	500-0100	591.000	SY	\$4.14633	GROOVED CONCRETE	\$2,450.48
0244	500-1011	234.000	LS	\$775.00000	SUPERSTR CONCRETE, CL D, BR NO - CSBRG-0007-00(156)	\$181,350.00
0249	500-2100	268.000	LF	\$47.84227	CONCRETE BARRIER	\$12,821.73
0254	500-3101	51.000	CY	\$362.92346	CLASS A CONCRETE	\$18,509.10
0259	507-9032	829.000	LF	\$184.98408	PSC BEAMS,AASHTO,BULB TEE, 72"	\$153,351.80
0264	511-1000	5746.000	LB	\$0.75820	BAR REINF STEEL	\$4,356.62
0274	511-3000	44503.000	LS	\$1.00000	SUPERSTR REINF STEEL, BR NO - CSBRG-0007-00(156)	\$44,503.00
0269	520-1173	560.000	LF	\$59.65486	PIL-IN-PL,STEEL H,HP 14 X 102	\$33,406.72
0279	520-4173	1.000	EA	\$0.26351	LOAD TEST, STEEL H,HP 14 X 102	\$0.26
0284	523-1100	2.000	EA	\$500.00000	DYNAMIC PILE TEST	\$1,000.00
0219	540-1101	1.000	LS	\$50,000.00000	REM OF EX BR, STA NO - 20+12	\$50,000.00
0224	541-0001	1.000	LS	\$96,000.00000	DETOUR BRIDGE - 24' X 100'	\$96,000.00
0289	603-2024	798.000	SY	\$40.41803	STN DUMPED RIP RAP, TP 1, 24"	\$32,253.59
0294	603-7000	798.000	SY	\$3.39881	PLASTIC FILTER FABRIC	\$2,712.25
SUBTOTAL FOR BRIDGE:						\$632,715.55

DETAILED COST ESTIMATE



Job: 0007156

TOTALS FOR JOB 0007156

ITEMS COST:	\$1,535,179.89
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,535,179.89
CONTINGENCY PERCENT:	0.05
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,688,697.88

PROJ. NO.

CSBRG-0007-00(156)

CALL NO.

P.I. NO.

0007156

DATE

3/9/2015

INDEX (TYPE)

DATE INDEX

REG. UNLEADED

Mar-15 \$ 2.291

DIESEL

\$ 2.848

LIQUID AC

\$ 510.00

Link to Fuel and AC Index:

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

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)				34317.9	\$	34,317.90
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	816.00		
Monthly Asphalt Cement Price month project let (APL)			\$	510.00		
Total Monthly Tonnage of asphalt cement (TMT)				112.15		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	223	5.0%	11.15
9.5 mm SP	491	5.0%	24.55
25 mm SP	735	5.0%	36.75
19 mm SP	794	5.0%	39.7
	2243		112.15

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$	1,418.13	\$	1,418.13
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	816.00			
Monthly Asphalt Cement Price month project let (APL)			\$	510.00			
Total Monthly Tonnage of asphalt cement (TMT)							4.634413895

Bitum Tack

Gals	gals/ton	tons
1079	232.8234	4.63441389

PROJ. NO.

CSBRG-0007-00(156)

CALL NO.

P.I. NO.

0007156

DATE

3/9/2015

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)					0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	816.00		
Monthly Asphalt Cement Price month project let (APL)				\$	510.00		
Total Monthly Tonnage of asphalt cement (TMT)					0		

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf. Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT	\$ 35,736.03
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Notice of Location & Design Approval

CSBRG-0007-00(156) BANKS COUNTY

P. I. No. 0007156

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: June 2, 2015

This project is the replacement of a load limited bridge on SR 98 over Hickory Level Creek, 3.5 miles southwest of Homer in Banks County, Georgia. The project is also located in Georgia Militia Districts 265 and/or 465. The existing bridge, constructed in 1967, has a sufficiency rating of 47.4.

The construction proposes a new 140' long by 43.25' wide concrete bridge over Hickory Level Creek at the existing bridge site. Traffic will be maintained during construction utilizing an on-site detour bridge. The total project length is approximately 0.464 miles which includes the staging tapers.

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:

Tony Voyles
GDOT District 1, Area 3 Engineer
tvoyles@dot.ga.gov
301 Conger Road
Carnesville, GA 30521
(706) 384-7269

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:

Albert V. Shelby III
GDOT Office of Program Delivery
Attn: *David White*
dwhite@dot.ga.gov
Georgia Department of Transportation
600 West Peachtree Street, 25th Floor Cubicle 2527
Atlanta, GA 30308
(404) 631-1717

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.