

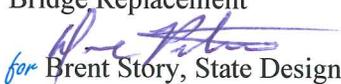
ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0010408 **OFFICE** Design Policy & Support
Coffee County
GDOT District 4 - Tifton
SR 32 @ Hurricane Creek
Bridge Replacement

DATE May 15, 2014

FROM  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:

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
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Ralph "Sandy" Griffin, District Design Engineer
Jeff Fletcher, Location Bureau Chief
Joe Sheffield, District Engineer
Brent Thomas, District Preconstruction Engineer
William "Shane" Pridgen, District Planning & Programming Engineer
Keith Carver, Area Engineer - D4, A2
Sonja Thompson, Project Manager
BOARD MEMBER - 12th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE PI 0010408, Coffee County OFFICE Program Delivery
SR 32 @ Hurricane Creek
Approx. 0.4 miles west of Nicholls

DATE April 15, 2014

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

TO: Brent A. 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 proposed project is the replacement of the existing bridge on SR 32 @ Hurricane Creek approximately 0.4 miles west of Nichols, Georgia. The current Bridge Sufficiency Rating is 57.57 and will be replaced with a wider bridge that meets current GDOT Guidelines. The proposed approaches will consist of two-12 ft. travel lanes. 10 ft. shoulders with 4ft. paved and open ditches. This project is located in the 6th Land District, Land Lot 499 and GMD 1170. The proposed project will be approximately 0.30 miles in length. Traffic will be maintained by an on-site detour.

Concept Approval Date: July 12, 2012

Concept Update: None

Environmental Document Type, Approval Date & any Reevaluations: Categorical Exclusion, approved April 14, 2014

Public Involvement: Public hearing open house is not required and was not scheduled.

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.

RECOMMEND: *Mike Bonn*
Director of Engineering

APPROVE: *Qu R M M* *5/13/14*
Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: *05/15/2014*
(To be entered by the State Conceptual Design Group Manager)

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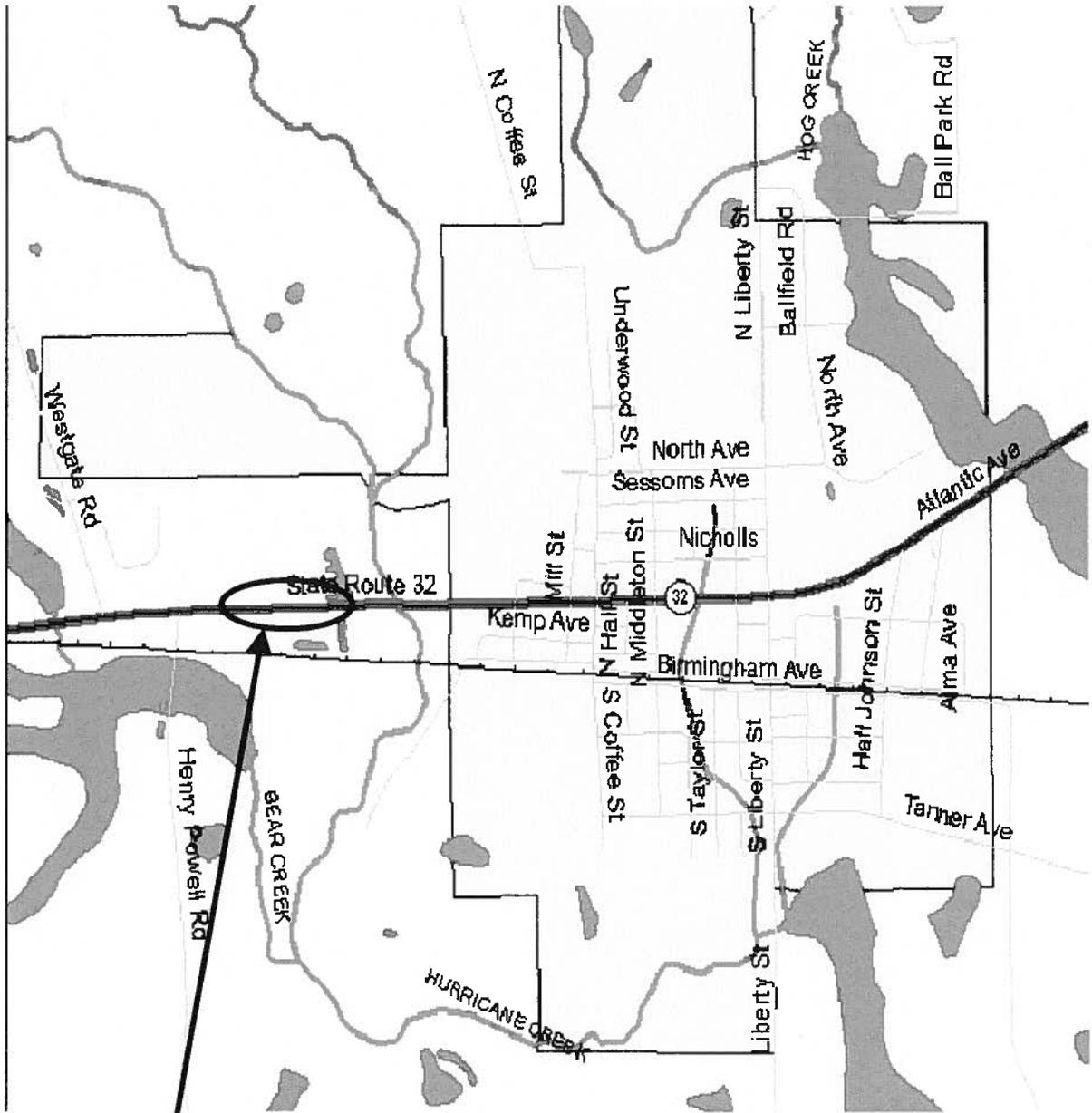
Request for Location and Design Approval

P.I. No. 0010408

Attachments:

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

PROJECT LOCATION



PROJECT LOCATION
Structure ID: 069-0018-0
NOT TO SCALE

**SR 32 @ Hurricane Creek
Coffee County**

DETAILED COST ESTIMATE



Job: 0010408

JOB NUMBER 0010408

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: BRIDGE REPLACEMENT; SR 32 OVER HURRICANE CREEK
COFFEE CO.

ITEMS FOR JOB 0010408

0010 - ROADWAY

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|------------------------------|----------|----------|-------|-----------------|--|---------------------|
| 0005 | 150-1000 | 1.000 | LS | \$20,000.00000 | TRAFFIC CONTROL - 0010408 | \$20,000.00 |
| 0330 | 150-5010 | 2.000 | EA | \$7,436.12800 | TRAF CTRL,PORTABLE IMPACT ATTN | \$14,872.26 |
| 0010 | 153-1300 | 1.000 | EA | \$67,008.48320 | FIELD ENGINEERS OFFICE TP 3 | \$67,008.48 |
| 0015 | 210-0100 | 1.000 | LS | \$254,828.00000 | GRADING COMPLETE - 0010408 | \$254,828.00 |
| 0285 | 310-5080 | 2454.000 | SY | \$13.66527 | GR AGGR BS CRS 8IN INCL MATL | \$33,534.57 |
| 0020 | 310-5100 | 4028.000 | SY | \$15.36417 | GR AGGR BS CRS 10IN INCL MATL | \$61,886.88 |
| 0025 | 402-1812 | 607.000 | TN | \$80.95112 | RECYL AC LEVELING,INC BM&HL | \$49,137.33 |
| 0030 | 402-3103 | 811.000 | TN | \$81.92974 | REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L | \$66,445.02 |
| 0040 | 402-3121 | 944.000 | TN | \$75.65139 | RECYL AC 25MM SP,GP1/2,BM&HL | \$71,414.91 |
| 0035 | 402-3190 | 1101.000 | TN | \$83.80526 | RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL | \$92,269.59 |
| 0045 | 413-1000 | 1387.000 | GL | \$3.26300 | BITUM TACK COAT | \$4,525.78 |
| 0290 | 429-1000 | 6.000 | EA | \$585.65110 | RUMBLE STRIPS | \$3,513.91 |
| 0295 | 432-5010 | 2000.000 | SY | \$4.21131 | MILL ASPH CONC PVMT,VARB DEPTH | \$8,422.62 |
| 0050 | 433-1200 | 284.000 | SY | \$141.89666 | REF CONC APPR SL/I SLOPED EDGE | \$40,298.65 |
| 0055 | 436-1000 | 220.000 | LF | \$9.25211 | ASPH CONC CURB - 0010408 | \$2,035.46 |
| 0060 | 441-0301 | 4.000 | EA | \$1,706.69390 | CONC SPILLWAY, TP 1 | \$6,826.78 |
| 0325 | 456-2015 | 1.000 | GLM | \$1,278.07169 | INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP) | \$1,278.07 |
| 0070 | 500-3101 | 1.000 | CY | \$459.24915 | CLASS A CONCRETE | \$459.25 |
| 0315 | 500-3200 | 1.000 | CY | \$331.43762 | CL B CONC | \$331.44 |
| 0080 | 576-1018 | 236.000 | LF | \$31.11889 | SLOPE DRAIN PIPE, 18 IN | \$7,344.06 |
| 0320 | 577-1100 | 2.000 | EA | \$982.02362 | METAL DR INLET - CMPLT ASSMBLY | \$1,964.05 |
| 0085 | 620-0100 | 1820.000 | LF | \$27.76524 | TEMP BARRIER, METHOD NO. 1 | \$50,532.74 |
| 0090 | 634-1200 | 10.000 | EA | \$111.69242 | RIGHT OF WAY MARKERS | \$1,116.92 |
| 0095 | 641-1100 | 84.000 | LF | \$72.95079 | GUARDRAIL, TP T | \$6,127.87 |
| 0100 | 641-1200 | 1199.000 | LF | \$18.64638 | GUARDRAIL, TP W | \$22,357.01 |
| 0105 | 641-5001 | 2.000 | EA | \$606.40844 | GUARDRAIL ANCHORAGE, TP 1 | \$1,212.82 |
| 0110 | 641-5012 | 2.000 | EA | \$1,827.88036 | GUARDRAIL ANCHORAGE, TP 12 | \$3,655.76 |
| 0205 | 643-8200 | 1840.000 | LF | \$1.61461 | BARRIER FENCE (ORANGE), 4 FT | \$2,970.88 |
| SUBTOTAL FOR ROADWAY: | | | | | | \$896,371.11 |

0020 - EROSION CONTROL PERMANENT

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|--|----------|-----------|-------|-------------|------------------------------|--------------------|
| 0115 | 700-6910 | 6.620 | AC | \$259.23458 | PERMANENT GRASSING | \$1,716.13 |
| 0120 | 700-7000 | 19.860 | TN | \$55.00351 | AGRICULTURAL LIME | \$1,092.37 |
| 0125 | 700-8000 | 5.300 | TN | \$433.09013 | FERTILIZER MIXED GRADE | \$2,295.38 |
| 0130 | 700-8100 | 662.000 | LB | \$2.73424 | FERTILIZER NITROGEN CONTENT | \$1,810.07 |
| 0135 | 716-2000 | 17788.000 | SY | \$1.13281 | EROSION CONTROL MATS, SLOPES | \$20,150.42 |
| SUBTOTAL FOR EROSION CONTROL PERMANENT: | | | | | | \$27,064.37 |

DETAILED COST ESTIMATE



Job: 0010408

0030 - EROSION CONTROL TEMPORARY

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|--|----------|----------|-------|---------------|---|--------------------|
| 0140 | 163-0232 | 6.620 | AC | \$13.91540 | TEMPORARY GRASSING | \$92.12 |
| 0145 | 163-0240 | 106.000 | TN | \$157.71791 | MULCH | \$16,718.10 |
| 0150 | 163-0300 | 4.000 | EA | \$1,314.35683 | CONSTRUCTION EXIT | \$5,257.43 |
| 0155 | 163-0520 | 236.000 | LF | \$12.33186 | CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN | \$2,910.32 |
| 0165 | 163-0529 | 1160.000 | LF | \$4.62880 | CNST/REM TEMP SED BAR OR BLD STRW CK DM | \$5,369.41 |
| 0305 | 163-0550 | 5.000 | EA | \$194.06384 | CONS & REM INLET SEDIMENT TRAP | \$970.32 |
| 0170 | 165-0030 | 4150.000 | LF | \$0.19670 | MAINT OF TEMP SILT FENCE, TP C | \$816.31 |
| 0175 | 165-0041 | 170.000 | LF | \$0.35873 | MAINT OF CHECK DAMS - ALL TYPES | \$60.98 |
| 0180 | 165-0071 | 410.000 | LF | \$1.09053 | MAINT OF SEDIMENT BARRIER - BALED STRAW | \$447.12 |
| 0185 | 165-0101 | 4.000 | EA | \$413.87716 | MAINT OF CONST EXIT | \$1,655.51 |
| 0310 | 165-0105 | 5.000 | EA | \$35.75870 | MAINT OF INLET SEDIMENT TRAP | \$178.79 |
| 0190 | 167-1000 | 2.000 | EA | \$236.18263 | WATER QUALITY MONITORING AND SAMPLING | \$472.37 |
| 0195 | 167-1500 | 18.000 | MO | \$772.11180 | WATER QUALITY INSPECTIONS | \$13,898.01 |
| 0200 | 171-0030 | 8300.000 | LF | \$3.31849 | TEMPORARY SILT FENCE, TYPE C | \$27,543.47 |
| SUBTOTAL FOR EROSION CONTROL TEMPORARY: | | | | | | \$76,390.26 |

0040 - HIGHWAY SIGNING AND MARKING

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|--|----------|----------|-------|------------|--------------------------------|-------------------|
| 0335 | 636-1020 | 67.000 | SF | \$13.94003 | HWY SGN,TP1MAT,REFL SH TP3 | \$933.98 |
| 0215 | 636-1033 | 37.000 | SF | \$19.18957 | HWY SIGNS, TP1MAT,REFL SH TP 9 | \$710.01 |
| 0220 | 636-2070 | 182.000 | LF | \$7.57770 | GALV STEEL POSTS, TP 7 | \$1,379.14 |
| 0225 | 652-5451 | 2900.000 | LF | \$0.14722 | SOLID TRAF STRIPE, 5 IN, WHITE | \$426.94 |
| 0300 | 652-5452 | 170.000 | LF | \$0.22169 | SOLID TRAF STRIPE, 5 IN, YELLO | \$37.69 |
| 0230 | 652-6502 | 1300.000 | GLF | \$0.16234 | SKIP TRAF STRIPE, 5 IN, YELLOW | \$211.04 |
| 0235 | 654-1001 | 21.000 | EA | \$4.42319 | RAISED PVMT MARKERS TP 1 | \$92.89 |
| 0275 | 654-1002 | 4.000 | EA | \$3.90296 | RAISED PVMT MARKERS TP 2 | \$15.61 |
| 0240 | 657-1085 | 300.000 | LF | \$5.99597 | PRF PL SD PVT MKG,8",B/W,TP PB | \$1,798.79 |
| 0245 | 657-3086 | 150.000 | GLF | \$3.51609 | FPR PL SK PVMT MKG,8",B/Y,TPPB | \$527.41 |
| SUBTOTAL FOR HIGHWAY SIGNING AND MARKING: | | | | | | \$6,133.50 |

0050 - BRIDGE

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|-----------------------------|----------|----------|-------|-----------------|-------------------------------------|-----------------------|
| 0250 | 540-1101 | 1.000 | LS | \$189,000.00000 | REM OF EX BR, STA NO - 0010408 | \$189,000.00 |
| 0270 | 541-0001 | 1.000 | LS | \$180,000.00000 | DETOUR BRIDGE - 0010408 | \$180,000.00 |
| 0255 | 543-9000 | 1.000 | LS | \$600,000.00000 | CONSTR OF BRIDGE COMPLETE - 0010408 | \$600,000.00 |
| 0260 | 603-2024 | 1386.000 | SY | \$49.65936 | STN DUMPED RIP RAP, TP 1, 24" | \$68,827.87 |
| 0265 | 603-7000 | 1386.000 | SY | \$2.59267 | PLASTIC FILTER FABRIC | \$3,593.44 |
| SUBTOTAL FOR BRIDGE: | | | | | | \$1,041,421.31 |

TOTALS FOR JOB 0010408

DETAILED COST ESTIMATE



Job: 0010408

| | |
|---|----------------|
| ITEMS COST: | \$2,047,380.55 |
| COST GROUP COST: | \$0.00 |
| ESTIMATED COST: | \$2,047,380.55 |
| CONTINGENCY PERCENT: | 0.00 |
| ENGINEERING AND INSPECTION: | 0.05 |
| ESTIMATED COST WITH CONTINGENCY AND E&I: | \$2,149,749.58 |

Total Liquid AC Adj- 50,418.71

Const. Total \$2,200,168.29

PROJ. NO.

0010408

CALL NO.

9/29/2009

P.I. NO.

4/30/2014

Link to Fuel and AC Index:

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

INDEX (TYPE)

DATE

INDEX

REG. UNLEADED Apr-14 \$ 3.455

DIESEL \$ 3.930

LIQUID AC \$ 563.00

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)-0.05]xTMTxAPL

Asphalt

Price Adjustment (PA)

Monthly Asphalt Cement Price month placed (APM)

Monthly Asphalt Cement Price month project let (APL)

Total Monthly Tonnage of asphalt cement (TMT)

Max. Cap

50%

\$ 844.50
\$ 563.00

\$ 48,741.73

173.15

| ASPHALT | Tons | %AC | AC ton |
|-----------|-------------|------|---------------|
| Leveling | 607 | 5.0% | 30.35 |
| 12.5 OGFC | | 5.0% | 0 |
| 12.5 mm | | 5.0% | 0 |
| 9.5 mm SP | 811 | 5.0% | 40.55 |
| 25 mm SP | 944 | 5.0% | 47.2 |
| 19 mm SP | 1101 | 5.0% | 55.05 |
| | 3463 | | 173.15 |

BITUMINOUS TACK COAT

Price Adjustment (PA)

Monthly Asphalt Cement Price month placed (APM)

Monthly Asphalt Cement Price month project let (APL)

Total Monthly Tonnage of asphalt cement (TMT)

Max. Cap

50%

\$ 1,676.98
\$ 844.50
\$ 563.00

\$ 1,676.98

5.957304979

Bitum Tack

Gals

1387

gals/ton

232.8234

tons

5.95730498

PROJ. NO.

CALL NO.

9/29/2009

P.I. NO.
DATE

| | |
|-----------|--|
| 0010408 | |
| 4/30/2014 | |

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA) 0 \$

Monthly Asphalt Cement Price month placed (APM) 844.50

Monthly Asphalt Cement Price month project let (APL) 563.00

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 |

TOTAL LIQUID AC ADJUSTMENT **\$ 50,418.71**

NOTICE OF LOCATION AND DESIGN APPROVAL

PI# 0010408

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 the Location Approval is: May 15, 2014

The proposed project is the replacement of the existing bridge on SR 32 @ Hurricane Creek approximately 0.4 miles west of Nichols, Georgia. The current Bridge Sufficiency Rating is 57.57 and will be replaced with a wider bridge that meets current GDOT Guidelines. The proposed approaches will consist of two-12 ft. travel lanes. 10 ft. shoulders with 4ft. paved and open ditches. This project is located in the 6th Land District, Land Lot 499 and GMD 1170. The proposed project will be approximately 0.30 miles in length. Traffic will be maintained by an on-site detour.

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:

Howard "Keith" Carver
hcarver@dot.ga.gov
1835 South Peterson Avenue
Douglas, GA 31535
912-389-4201

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
Office of Program Delivery
ashelby@dot.ga.gov
600 West Peachtree Street
Atlanta, GA 30308
404-631-1758

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.