

ORIGINAL TO GENERAL FILES

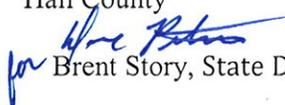
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #142291
BRST0-2424-00(003)
Hall County

OFFICE Design Policy & Support

DATE March 5, 2010

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED CONCEPT REPORT

Attached is the approved Revised Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Ron Wishon, State Project Review Engineer
Glenn Bowman, State Environmental Administrator
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Keith Golden, State Traffic Operations Engineer
Angela Alexander, State Transportation Planning Administrator
Paul Liles, State Bridge Engineer
Bobby Hilliard, State Program Delivery Engineer
Angela Robinson, Financial Management Administrator
Robert Mahoney, Gainesville District Preconstruction Engineer
Todd McDuffie, Gainesville District Engineer
Ernay Robinson, Project Manager
Steve Gooch, GDOT Board Member

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

REVISED PROJECT CONCEPT REPORT

Project Number BRST0-2424-00(003)
County Hall
P. I. Number 142291
Federal Route Number
State Route Number 284

The original concept and first concept revision are revised by changing the typical section and shoulder type which reduces the bridge width. The VE study recommended the changes and they were approved for implementation.

Submitted for approval. (Submit to "Concept Reports" in Outlook)

| | |
|-----------------------|---|
| DATE <u> </u> | <u> </u> Design Consultant Name and Firm Name (if applicable) |
| DATE <u> </u> | <u> </u> Local Government (if applicable) |
| DATE <u>1/29/10</u> | <u> </u> Design Phase Office Head (if applicable) |
| DATE <u>1/21/2010</u> | <u> </u> Office Head (Project Manager's Office) |
| DATE <u>1/21/10</u> | <u> </u> Project Manager |

Recommendation for approval:

| | |
|----------------------|---|
| DATE <u>02/08/10</u> | <u> </u> State Environmental Administrator |
| DATE <u>02/08/10</u> | <u> </u> State Bridge Design Engineer (if applicable) |

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and/or the State Transportation Improvement Program (STIP)

| | |
|-----------------------|--|
| DATE <u>2-10-2010</u> | <u> </u> State Transportation Planning Administrator |
|-----------------------|--|

** Approval on file*

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REVISED PROJECT CONCEPT REPORT

Need and Purpose Statement

SR 284 @ Chattahoochee River/Lake Lanier, Hall County
Project BRST0-2424-00(003), PI# 142291

Description of Existing Roadways: At the location of the Chattahoochee River/Lake Lanier bridge crossing, SR 284 is a 2-lane roadway with a posted speed limit of 45 mph and is functionally classified as a rural major collector roadway. The existing bridge is located approximately 4 miles north of Gainesville, Georgia and has a length and width of 834 ft x 23.80 ft. The bridge was constructed in 1958 and has a current sufficiency rating of 38.52. According to the bridge inventory data listing provided by the Office of Bridge Maintenance, this is also located on a local school bus route.

Land Use: In the vicinity of this project, the SR 284 corridor has current land uses of light residential and recreational/park uses. These land use types are predominant with the presence of Lake Lanier in the immediate area. The future land use map shown within the 2005 Hall County Comprehensive Plan indicates that the existing land use types will predominantly remain in future years.

Existing Conditions (2008): As specified in GDOT policy 2405-1, if an existing bridge is on the Highway Bridge Replacement and Rehabilitation Program (HBRRP) selection list and has a sufficiency rating of less than 50, the bridge is eligible for replacement. Currently, the existing bridge is included on the HBRRP selection list and the sufficiency rating is 38.52. The office of Bridge Maintenance provides the recommendation for replacement/widening on all bridge projects that meet these criteria. As determined by the Office of Bridge Maintenance, this project will replace the existing bridge with a structurally adequate bridge as this low sufficiency rating represents a clear need for replacement due to functional obsolescence and/or structural deficiency.

Based upon Georgia's State Traffic and Reporting Statistics, SR 284 at this location has a 2008 AADT of 7880 vehicles per day. Utilizing existing conditions of the roadway and 2008 AADT, a calculated Level-of Service ("LOS") of "C" was determined for this section of SR 284 during the

peak hour. This LOS rating does not indicate an existing need with regards to congestion at this location.

Crash Analysis: A comparison of 2006, 2007, and 2008 accident, injury, and fatality rates along SR 284 in the area of the bridge compared to the corresponding statewide average rates for similar facilities is presented in Table 1. The analysis indicates that the accident, injury and fatality rates are almost uniformly below the statewide average for similar facilities; the exception being in 2008 where the injury rate at this location was shown to exactly equal the statewide average.

Table 1: Comparison of Accident/Injury/Fatality Rates to Statewide Average

| | 2006 | 2007 | 2008 |
|---------------------------------|------|------|------|
| SR 284 Accident Rates | 115 | 34 | 68 |
| Statewide Accident Rate Average | 203 | 203 | 194 |
| SR 284 Injury Rates | 38 | 68 | 68 |
| Statewide Injury Rate Average | 73 | 72 | 68 |
| SR 284 Fatality Rates | 0 | 0 | 0 |
| Statewide Fatality Rate Average | 3.28 | 3.24 | 3.03 |

Rates shown are per 100 Million Vehicle Miles

Future Conditions: Base Year and Design Year traffic volume projections were calculated based upon historical count information in the area. The 2013 and 2033 AADT for this section of roadway, as provided by the Office of Program Delivery, is projected to be 11,000 VPD and 15,000 VPD respectively. Roadway LOS analysis was performed using these projected traffic volumes to calculate the corresponding LOS information in both 2013 and 2033. Utilizing the projected volumes, SR 284 is expected to operate at a LOS D during peak hour conditions for both the base year and design year. This LOS rating indicates a slight deficiency in roadway performance for SR 284 in the future.

Description of Proposed Improvements: The low sufficiency rating for the existing bridge indicates a clear need for replacement as specified by GDOT policy 2405-1 and as recommended by the Office of Bridge Maintenance. In response to the identified need, the Department is proposing GDOT project PI#142291, which is a complete bridge replacement.

Replacing this bridge on SR 284 over the Chattahoochee River will bring it up to current AASHTO geometric design standards. The proposed bridge is 952 feet long and 40 feet wide. The bridge is to be constructed with a rural roadway section consisting of two 12 foot travel lanes and two 8 foot shoulders.

The right-of-way phase for PI 142291 is listed within the Gainesville-Hall Metropolitan Planning Organization's (GHMPO) FY 2008-2013 Transportation Improvement Program (TIP) for implementation in 2010 with LICO bridge funds. The construction phase is currently unfunded.

Logical Termini: The proposed 2-lane bridge replacement project will tie into the 2-lane existing roadway and will not require any additional roadway work. This bridge project is a stand-alone project with independent utility and logical termini. The proposed project length is 2781 feet (0.53 miles), beginning at M.P. 1.63 and extending to M.P. 2.16.

Bike Facilities: SR 284 at this location is listed in the Georgia Bicycle and Pedestrian Plan as State Bike Route 55. In addition, this route is also highlighted in the Gainesville-Hall MPO Bicycle & Pedestrian Plan (2006) as needing either bike lanes or bikeable shoulders. As reflected in its current version, the proposed project concept accommodates these plans by providing an 8 foot shoulder on the bridge that is considered to be bikeable. AASHTO recommends a minimum paved shoulder width of 4 feet to be considered bikeable.

Other Projects in the Area: There are no other projects programmed within the immediately vicinity of the project or that are expected to have an effect upon the implementation of this project.

Need and Purpose: As directed in GDOT policy 2405-1, The Office of Bridge Maintenance has recommended that this structure, with a sufficiency rating of less than 50 and with inclusion on the HBRRP selection list, has a definitive need to be replaced rather than improved based upon functional obsolescence and/or structural deficiencies. PI 142291 will mitigate this identified need through the construction of a new structurally adequate bridge structure that meets current AASHTO geometric design standards.

Project Location: This project consists of SR 284 over the Chattahoochee River, located 4 miles north of the city of Gainesville in Hall County. The proposed project length is 2781 feet (0.53 miles), beginning at M.P. 1.63 and extending to M.P. 2.16. The project is located in the 411th and 570th Georgia Militia District. (Location Map is attached.)

Description of the approved concept: The approved concept is to build the proposed bridge 50 feet east of the existing bridge. Traffic will be maintained on the existing bridge during construction. The roadway typical section consists of two 12 foot travel lanes, 4 foot bike lanes, curb and gutter, and urban shoulders with 5 foot sidewalks. A 10 foot x 8 foot pedestrian culvert will be constructed at the entrance of Clarks Bridge Park. To maintain traffic during construction of the pedestrian culvert, an off-site detour (approved July 19, 2007) will be used.

PDP Classification: Major: _____ Minor: X

Federal Oversight: Full Oversight (), Exempt (X), State Funded (), or Other ()

Functional Classification: Rural Major Collector Road

U. S. Route Number(s): N/A **State Route Number(s):** 284

Traffic (AADT) as shown in the approved concept:

Base Year: (2011) 11,000 Design Year: (2031) 15,000

Updated traffic data (AADT):

Base Year: (2013) 11,000 Design Year: (2033) 15,000

Approved Programmed/Schedule:

P.E.: 2000 R/W: 2010 Construction: 2012

VE Study Required Yes (X) No ()

Is the project located in an Ozone Non-attainment area? Yes (X) No ()

Is the project in a PM2.5 Non-attainment area? Yes (X) No ()

Hall County is non-attainment for ozone and PM 2.5. This project is included in the Gainesville-Hall County MPO 2008-2013 Transportation Improvement Program (TIP), with funding allocated also under the Bridge Replacement Program (BRST). All appropriate modeling and evaluations were performed for the project Categorical Exclusion. The proposed project concept will not change the conforming plan's model description; the number of through lanes is not being modified.

| | |
|--|---|
| <p>Approved Features: The approved concept is to build the proposed bridge 50 feet east of the existing bridge. Traffic will be maintained on the existing bridge during construction. The roadway typical section consists of two 12 foot travel lanes, 4 foot bike lanes, curb and gutter, and urban shoulders with 5 foot sidewalks. In a revision to the original concept, a 10 foot x 8 foot pedestrian culvert will be constructed at the entrance of Clarks Bridge Park. To maintain traffic during construction of the pedestrian culvert an off-site detour (approved July 19, 2007) will be used.</p> | <p>Proposed Features: The project features of the approved project concept to be revised are the typical section and shoulder type. The project revision proposes to use rural shoulders in place of the sidewalks, curb and gutter, and bicycle lanes. The rural roadway section would consist of two 12-foot travel lanes and two 10-foot shoulders (6.5 feet paved). The bridge width will be reduced by 8 feet by changing the urban typical section to a rural typical section and in following guidelines for bridge widths GDOT Policy 4265-10 (approved July 12, 2008). The rural bridge section would consist of two 12-foot travel lanes and two 8-foot shoulders.</p> |
| <p>Reason for Change: The VE study recommended the changes and they were approved for implementation. New bridge width guidelines also caused a change.</p> | |

| <p align="center">Updated Cost Estimate</p> | |
|--|----------------|
| Construction including Contingencies | \$7,030,185.07 |
| Fuel Adjustment | \$92,428.30 |
| Right-of-Way | \$1,281,200.00 |
| Utilities (reimbursable) | \$48,000.00 |
| Utility Contingencies | \$14,400.00 |

Recommendation: The Office of Program Delivery recommends that the proposed revision to the concept be approved for implementation.

Attachments:

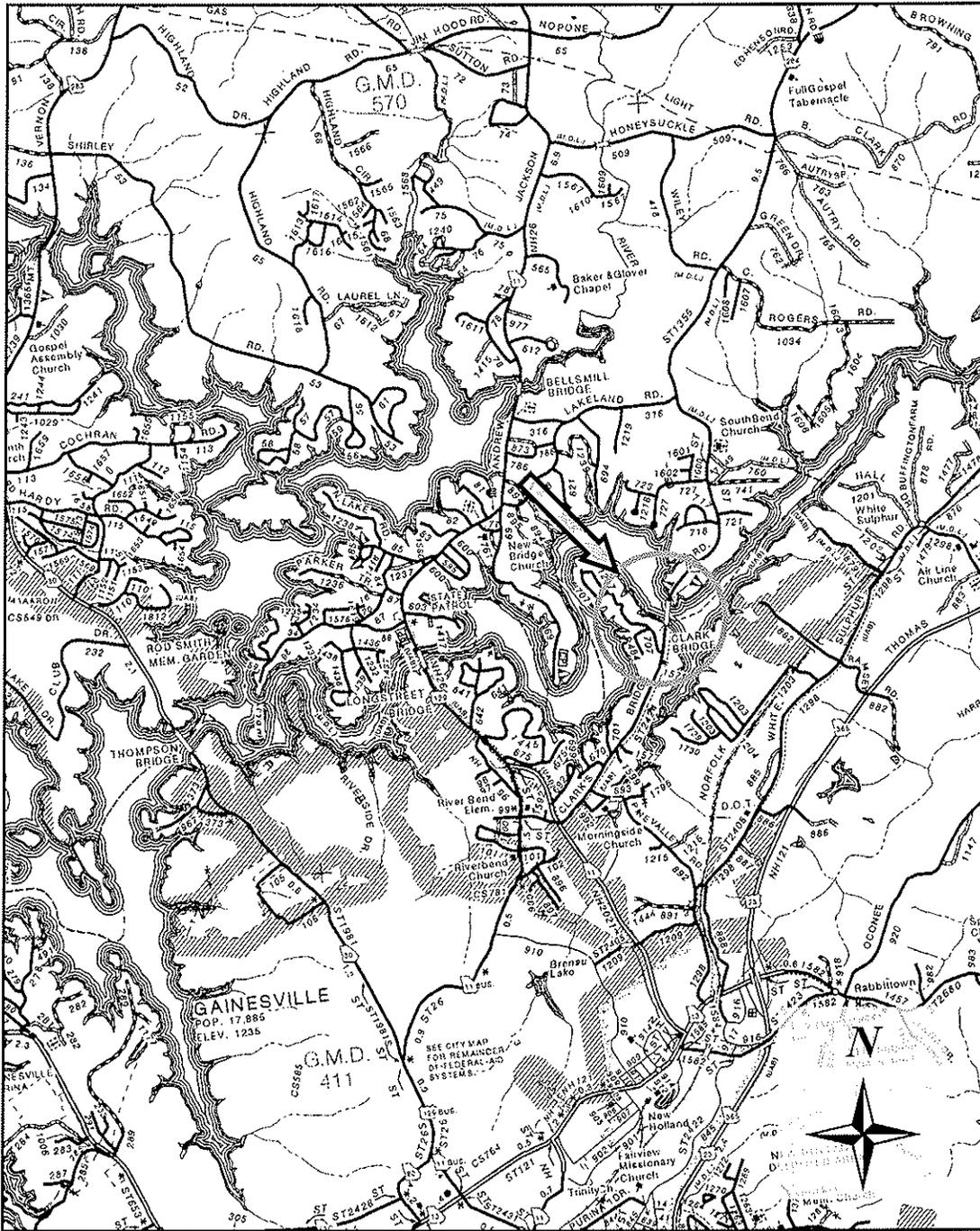
1. Sketch Map
2. Cost Estimate
 - a. Summary
 - b. Fuel Price Adjustment
 - c. Right of Way Cost Estimate
 - d. Utility Cost Estimate
3. Conforming plans network schematics
4. Typical Sections
5. Updated Traffic

Concur: 

Director of Engineering

Approve:  Date: 3/2/2010

Chief Engineer



Scale: 1 inch = 1 mile

Location Map

Project: BRST-2424(3) Hall County PI No.: 142291-

Description: SR 284 over Chattahoochee River 4 mi N of Gainesville

PI 142291 HALL COUNTY
BRSTO-2424-00(003)

| | |
|----------------------------|----------------|
| Construction Cost Estimate | \$6,449,711.08 |
| Asphalt Index Adjustment | \$58,333.27 |
| Fuel Index Adjustment | \$34,095.03 |

| | |
|-------|----------------|
| Total | \$6,542,139.38 |
|-------|----------------|

| | |
|---|--------------|
| Bridge Replacement w/ No Added Capacity (Other Enhancement 4%) | \$257,988.44 |
|---|--------------|

| | |
|------------------------------|--------------|
| Construction Inspection (5%) | \$322,485.55 |
|------------------------------|--------------|

| | |
|-------------|----------------|
| Grand Total | \$7,122,613.38 |
|-------------|----------------|

Estimate Report for file "142291(8-6-09)"

| Section Roadway | | | | | |
|---------------------------|-----------------|--------------|-------------------|---|-----------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 150-1000 | 1 | LS | 75000 00 | TRAFFIC CONTROL - | 75000 00 |
| 150-5010 | 2 | EA | 8965.72 | TRAFFIC CONTROL, PORTABLE IMPACT ATTENUATOR | 17931.44 |
| 153-1300 | 1 | EA | 73914 48 | FIELD ENGINEERS OFFICE TP 3 | 73914 48 |
| 207-0203 | 125 | CY | 44 73 | FOUND BK FILL MATL, TP II | 5591 25 |
| 208-0200 | 24043 | CY | 34.19 | ROCK EMBANKMENT | 822030.17 |
| 210-0100 | 1 | LS | 420000 00 | GRADING COMPLETE - | 420000 00 |
| 310-1101 | 3824 | TN | 17.04 | GR AGGR BASE CRS, INCL MATL | 65160 96 |
| 318-3000 | 300 | TN | 21.39 | AGGR SURF CRS | 6417.00 |
| 402-1812 | 146 | TN | 66.70 | RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME | 9738.20 |
| 402-3121 | 873 | TN | 59.47 | RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 51917.31 |
| 402-3130 | 707 | TN | 64.13 | RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME | 45339.91 |
| 402-3190 | 829 | TN | 67.77 | RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 56181.33 |
| 413-1000 | 1051 | GL | 2.00 | BITUM TACK COAT | 2102 00 |
| 433-1000 | 315 | SY | 140.30 | REINF CONC APPROACH SLAB | 44194 50 |
| 441-0016 | 88 | SY | 42 35 | DRIVEWAY CONCRETE, 6 IN TK | 3726.80 |
| 441-0105 | 450 | SY | 28.00 | CONC SIDEWALK, 5 IN | 12600 00 |
| 500-3101 | 128 | CY | 238.02 | CLASS A CONCRETE | 30466.56 |
| 500-9999 | 100 | CY | 192.85 | CLASS B CONC, BASE OR PVMT WIDENING | 19285 00 |
| 511-1000 | 14356 | LB | 0.89 | BAR REINF STEEL | 12776 84 |
| 603-2024 | 783 | SY | 45 91 | STN DUMPED RIP RAP, TP 1, 24 IN | 35947.53 |
| 603-2181 | 79 | SY | 34.43 | STN DUMPED RIP RAP, TP 3, 18 IN | 2719.97 |
| 603-7000 | 778 | SY | 3.80 | PLASTIC FILTER FABRIC | 2956.40 |
| 620-0200 | 1850 | LF | 54 48 | TEMPORARY BARRIER, METHOD NO. 2 | 100788.00 |
| 634-1200 | 24 | EA | 93.93 | RIGHT OF WAY MARKERS | 2254.32 |
| 641-1100 | 132 | LF | 52.35 | GUARDRAIL, TP T | 6910.20 |
| 641-1200 | 2012 | LF | 17.89 | GUARDRAIL, TP W | 35994.68 |
| 641-5001 | 6 | EA | 673.15 | GUARDRAIL ANCHORAGE, TP 1 | 4038 90 |
| 641-5012 | 4 | EA | 1762.58 | GUARDRAIL ANCHORAGE, TP 12 | 7050 32 |
| Section Sub Total: | | | | | \$1,973,034.07 |

| Section Bridge | | | | | |
|---------------------------|-----------------|--------------|-------------------|--|-----------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 540-1102 | 1 | LS | 260000 00 | REMOVAL OF EXISTING BR, BR NO - 1 | 260000.00 |
| 543-9000 | 1 | Lump Sum | 4048380.00 | CONSTRUCTION OF BRIDGE COMPLETE - BRIDGE 1 | 4048380.00 |
| Section Sub Total: | | | | | \$4,308,380.00 |

| Section Erosion Control | | | | | |
|--------------------------------|-----------------|--------------|-------------------|---|-------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 163-0232 | 3 | AC | 283.37 | TEMPORARY GRASSING | 850 11 |
| 163-0240 | 100 | TN | 129 90 | MULCH | 12990.00 |
| 163-0300 | 5 | EA | 1148.70 | CONSTRUCTION EXIT | 5743 50 |
| 163-0503 | 1 | EA | 442.20 | CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3 | 442.20 |
| 163-0528 | 1995 | LF | 3.74 | CONSTRUCT AND REMOVE FABRIC CHECK DAM - TYPE C SILT FENCE | 7461 30 |
| 163-0530 | 1000 | LF | 2.42 | CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK | 2420.00 |
| 163-0550 | 4 | EA | 188.29 | CONSTRUCT AND REMOVE INLET SEDIMENT TRAP | 753.16 |
| 165-0030 | 3350 | LF | 0.66 | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | 2211.00 |
| 165-0041 | 998 | LF | 1.87 | MAINTENANCE OF CHECK DAMS - ALL TYPES | 1866 26 |
| 165-0050 | 930 | LF | 2.45 | MAINTENANCE OF SILT RETENTION BARRIER | 2278.50 |
| 165-0070 | 500 | LF | 2.83 | MAINTENANCE OF BALED STRAW EROSION CHECK | 1415.00 |
| 165-0087 | 1 | EA | 113.48 | MAINTENANCE OF SILT CONTROL GATE, TP 3 | 113 48 |

| | | | | | |
|---------------------------|-------|----|--------|---------------------------------------|---------------------|
| 165-0101 | 5 | EA | 481.34 | MAINTENANCE OF CONSTRUCTION EXIT | 2406 70 |
| 165-0105 | 4 | EA | 78 69 | MAINTENANCE OF INLET SEDIMENT TRAP | 314 76 |
| 167-1000 | 2 | EA | 460.30 | WATER QUALITY MONITORING AND SAMPLING | 920 60 |
| 167-1500 | 18 | MO | 685 80 | WATER QUALITY INSPECTIONS | 12344.40 |
| 170-1000 | 930 | LF | 15.09 | FLOATING SILT RETENTION BARRIER | 14033 70 |
| 171-0030 | 6700 | LF | 2 95 | TEMPORARY SILT FENCE, TYPE C | 19765.00 |
| 700-6910 | 6 | AC | 674.07 | PERMANENT GRASSING | 4044 42 |
| 700-7000 | 18 | TN | 60.51 | AGRICULTURAL LIME | 1089 18 |
| 700-7010 | 15 | GL | 20 53 | LIQUID LIME | 307.95 |
| 700-8000 | 6 | TN | 409.57 | FERTILIZER MIXED GRADE | 2457 42 |
| 700-8100 | 300 | LB | 2.30 | FERTILIZER NITROGEN CONTENT | 690 00 |
| 716-2000 | 10520 | SY | 0 95 | EROSION CONTROL MATS, SLOPES | 9994 00 |
| Section Sub Total: | | | | | \$106,912.64 |

| Section Signing & Marking | | | | | |
|--------------------------------------|-----------------|--------------|-------------------|---|--------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 636-1020 | 59 | SF | 16.67 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3 | 983.53 |
| 636-2070 | 64 | LF | 8.71 | GALV STEEL POSTS, TP 7 | 557 44 |
| 652-5701 | 11 | LF | 1.92 | SOLID TRAF STRIPE, 24 IN, WHITE | 21.12 |
| 653-1501 | 3658 | LF | 0.44 | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE | 1609.52 |
| 653-1502 | 3658 | LF | 0.45 | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW | 1646.10 |
| 654-1001 | 186 | EA | 3 04 | RAISED PVMT MARKERS TP 1 | 565 44 |
| 657-1054 | 1904 | LF | 3.63 | PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB | 6911 52 |
| 657-6054 | 1904 | LF | 3.58 | PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB | 6816.32 |
| Section Sub Total: | | | | | \$19,110.99 |

| Section Drainage | | | | | |
|---------------------------|-----------------|--------------|-------------------|--|--------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 441-0204 | 16 | SY | 35 18 | PLAIN CONC DITCH PAVING, 4 IN | 562 88 |
| 550-1180 | 612 | LF | 36.27 | STORM DRAIN PIPE, 18 IN, H 1-10 | 22197 24 |
| 550-2180 | 73 | LF | 33 24 | SIDE DRAIN PIPE, 18 IN, H 1-10 | 2426.52 |
| 550-3518 | 4 | EA | 1159.03 | SAFETY END SECTION 18 IN, STORM DRAIN, 6:1 SLOPE | 4636.12 |
| 550-4118 | 2 | EA | 379.53 | FLARED END SECTION 18 IN, SIDE DRAIN | 759.06 |
| 668-2100 | 2 | EA | 2360.78 | DROP INLET, GP 1 | 4721 56 |
| 668-2105 | 2 | EA | 3485 00 | DROP INLET, GP 1, SPCL DES | 6970 00 |
| Section Sub Total: | | | | | \$42,273.38 |

Total Estimated Cost: \$6,449,711.08

P. I. Number 142291

County HALL

Project Number BRST0-2424-00(003)

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

| | |
|------------------|-------|
| ENTER FPL DIESEL | 2.506 |
| ENTER FPM DIESEL | 5.639 |

| | |
|--------------------|-------|
| ENTER FPL UNLEADED | 2.436 |
| ENTER FPM UNLEADED | 5.481 |

<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) | 3824 000 | 0.29 | 1108.96 | 0.24 | 917.76 | |
| 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) | 2555 000 | 2.90 | 7409.50 | 0.71 | 1814.05 | 25 mm + 19 mm + 12.5 mm + Leveling |
| 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 | | | | 8.00 | | 1.50 | | |
| Class ___ Concrete (CY) Section 500 | 100.00 | 190.70 | 19,070.00 | 8.00 | 152.56 | 1.50 | 28.61 | Class B Concrete |
| Class ___ Concrete (CY) Section 500 | 128.00 | 293.71 | 37,594.9 | 8.00 | 300.76 | 1.50 | 56.39 | Class A Concrete |
| Class ___ Concrete (CY) Section 500 | | | | 8.00 | | 1.50 | | |
| Superstru Con Class ___ (CY) Section 500 | | | | 8.00 | | 1.50 | | |
| 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 | | | | 8.00 | | 1.50 | | |

| BRIDGE ITEMS | Quantity | Unit Price | QF/1000 | Diesel Factor | Gallons Diesel | Unleaded Factor | Gallons Unleaded | REMARKS |
|---|----------|------------|----------------|-------------------------|----------------|-----------------|------------------|-----------------|
| 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 | | | | 8.00 | | 1.50 | | |
| PSC Beams____ (LF) Section 507 | | | | 8.00 | | 1.50 | | |
| PSC Beams____ (LF) Section 507 | | | | 8.00 | | 1.50 | | |
| Stru Reinf <u>Plan Quantity</u> (LB) Section 511 | | | | 8.00 | | 1.50 | | |
| Stru Reinf <u>Plan Quantity</u> (LB) Section 511 | | | | 8.00 | | 1.50 | | |
| Bar Reinf Steel (LB) Section 511 | 14356.00 | 0.89 | 12.7768 | 8.00 | 102.21 | 1.50 | 19.17 | Bar Reinf Steel |
| 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 | | |
| 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= | | | 9073.99 | SUM QF UNLEADED= | | | 2835.97 | |
| DIESEL PRICE ADJUSTMENT(\$) | | | | \$26,150.34 | | | | |
| UNLEADED PRICE ADJUSTMENT(\$) | | | | \$7,944.69 | | | | |

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

| Use this side for Asphalt Emulsion Only | | |
|---|------|----------------------------|
| L.I.N. | TYPE | ASPHALT EMULSION (GALLONS) |
| | | |
| TMT = <input style="width: 100px;" type="text"/> | | |
| REMARKS: <input style="width: 95%;" type="text"/> | | |

| Use this side for Asphalt Cement Only | | |
|---|------|----------------|
| L.I.N. | TYPE | TACK (GALLONS) |
| | | |
| TMT = <input style="width: 100px;" type="text"/> | | |
| REMARKS: <input style="width: 95%;" type="text"/> | | |

ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

DIESEL PRICE ADJUSTMENT(\$) \$26,150.34

UNLEADED PRICE ADJUSTMENT(\$) \$7,944.69

ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX) \$2,107.21

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX \$56,226.06

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

| | |
|----------|--|
| REMARKS: | <input style="width: 90%;" type="text"/> |
|----------|--|

Preliminary Right of Way Cost Estimate


Phil Copeland
 Right of Way Administrator
 By: LaShone B. Alexander

Date: September 14, 2009
 Project: BRST-2424(3) Hall County
 Existing/Required R/W: Varies/Varies
 Project Termini : SR 284/ Clarks Bridge Road
 Project Description: SR 284/ Clarks Bridge Road

P.I. Number: 142291
 No. Parcels: 9

| | | | |
|----------------|--------------------------------------|----|----------------|
| Land: | Req R/W: 5.288 acre @ \$ 75,000/acre | \$ | 396,600 |
| Improvements : | Landscaping, misc. site improvements | | 120,000 |
| Relocation: | Commercial (0) @ \$ 0,000 | | |
| | Residential (0) @ \$ 0,000 | | 00,000 |
| Damage : | Proximity(0) | \$ | 0 |
| | Consequential (0) | | 0 |
| | Cost to Cure (0) | | <u>0</u> |
| | | \$ | 00,000 |
| | Net Cost | \$ | 516,600 |
| | Net Cost | \$ | 516,600 |
| | Scheduling Contingency 55 % | | 284,130 |
| | Adm/Court Cost 60 % | | <u>480,438</u> |
| | | \$ | 1,281,168 |

Total Cost \$1,281,200.00

Note: The Market Appreciation (40%) is not included in the updated Preliminary Cost Estimate.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRST0-2424-00(003) Hall OFFICE Gainesville
P.I. No. 142291 DATE October 14, 2009

FROM Robby B. Oliver
Assistant District Utilities Engineer

TO Bobby Hilliard, State Program Delivery Engineer
ATTN Terry Rogers

SUBJECT PRELIMINARY REIMBURSABLE UTILITY COST (ESTIMATE)

As requested by your office, we are furnishing you with a Preliminary Reimbursable Utility Cost estimate for the subject project.

| FACILITY OWNER | NON - REIMBURSABLE | REIMBURSABLE |
|----------------------------------|---------------------|---------------------|
| Jackson EMC | | \$ 32,000.00 |
| AT&T | | \$ 16,000.00 |
| City of Gainesville | \$140,000.00 | |
| Totals | \$140,000.00 | \$ 48,000.00 |
| 30% Utilities Contingency: | \$ 42,000.00 | \$ 14,400.00 |
| Total Reimbursement Cost: | | \$ 62,400.00 |

Total reimbursable cost for the above project is estimated to be \$ 62,400.00

Note: The estimated cost for the City of Gainesville Water is \$ 140,000.00
If Utility Aid were granted, this could increase the total estimated costs by \$ 182,000.00 bringing the total to \$ 244,400.00.

If you have any questions, please contact Robby Oliver at 770-532-5510.

RBO

C: Jeff Baker, State Utilities Engineer;
Angela Whitworth, Office of Financial Management;
Matt Needham, Area Engineer
File

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST0-2424-00(003), Hall County OFFICE Environment/Location
P.I. # 142291 DATE October 22, 2009

FROM Ken Thompson, Location Bureau Chief
KET/AFG

TO Russell R. McMurry, P.E., District Engineer
Attn.: Justin Lott

SUBJECT Updated Estimated Traffic Assignment for SR 284 @ CHATTAHOOCHEE
RVR/LAKE LANIER 4 MI N OF GAINESVILLE

We are furnishing updated estimated traffic assignment for the above project as follows:

TC # 0367
MP 1.7 – MP 1.84
CHATTAHOOCHEE RIVER/
LAKE LANIER BRIDGE

2007 AADT = 9300
2013 AADT = 11000
2033 AADT = 15000
K = 10%
D = 60%
T. = 4%
24 HOUR T = 5.5%
S.U. = 4.5%
COMB. = 1.0%

TC # 0367
MP 1.84 – MP 1.87
NORTH OF CHATTAHOOCHEE RIVER/
LAKE LANIER BRIDGE

2007 AADT = 9300
2013 AADT = 11000
2033 AADT = 15000
K = 10%
D = 60%
T. = 5%
24 HOUR T = 7.0%
S.U. = 4.5%
COMB. = 2.5%

If you have any questions concerning this information please contact
Andre Washington at (404) 699-4460.

KET/AMW