

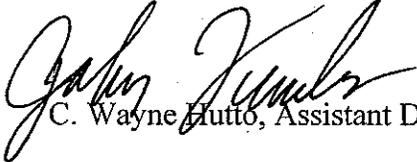
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-011-1 (55) Harris County  
P.I. No. 333155

**OFFICE** Preconstruction

**DATE** November 27, 2001

**FROM**   
C. Wayne Hutto, Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT** PROJECT CONCEPT REPORT APPROVAL

Attached for your file(s) is the approval for subject project.

CWH/cj

Attachment

**DISTRIBUTION:**

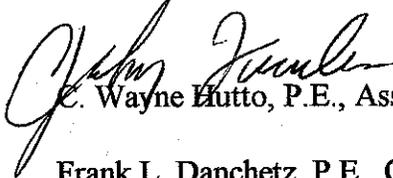
Tom Turner  
David Mulling  
Harvey Keeper  
Jerry Hobbs  
Herman Griffin  
Michael Henry  
Phillip Allen  
Marta Rosen  
Paul Liles  
Jimmy Chambers  
Glenn Durrence

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-011-1(55) Harris County **OFFICE** Preconstruction  
P.I. No. 333155 **DATE** October 26, 2001

**FROM**  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

**TO** Frank L. Danchetz, P.E., Chief Engineer

**SUBJECT** PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 1/US 27 over Mountain Creek, 1.6 miles north of SR 19 near one of the main entrances to Callaway Gardens. The existing bridge, constructed in 1950, is load limited with a sufficiency rating of 21. State Route 1/US 27 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 1/US 27 is classified as a rural minor arterial and is a designated school bus route. Traffic is projected to be 7,300 VPD and 9,800 VPD in the years 2005 and 2025 respectively. The posted speed and the design speed are 45 MPH.

The construction proposes to construct a new 120' x 44' concrete bridge over Mountain Creek at the existing bridge site. The profile grade will be raised to provide vertical clearance for proposed access roadway underneath. The approaches will consist of two, 12' lanes with 10' rural shoulders (2' paved). The construction will be staged with one lane maintained (with temporary signal) on the existing bridge while a portion of the new bridge is built. Traffic will then be redirected onto part of the new bridge while the old bridge is removed and the remaining new bridge is constructed.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$954,000	\$1,100,000	2003	01-12
Right-of-Way	\$ 12,000	\$ 10,000		
Utilities*	LGPA	LGPA		

Frank L. Danchetz  
Page 2

BRST-011-1(55) Harris  
October 26, 2001

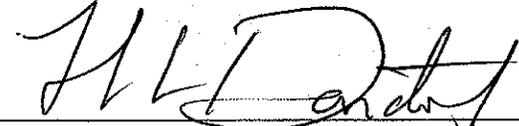
\*Harris County signed LGPA for utilities 8-3-99; City of Pine Mountain has no utility involvement.

This project is in the STIP. I recommend this project concept be approved.

CWH:JDQ/cj

Attachment

CONCUR   
Thomas L. Turner, P.E., Director of Preconstruction

APPROVE   
Frank L. Danchetz, P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** BRST-011-1(55) Harris  
P.I. Number 333155-

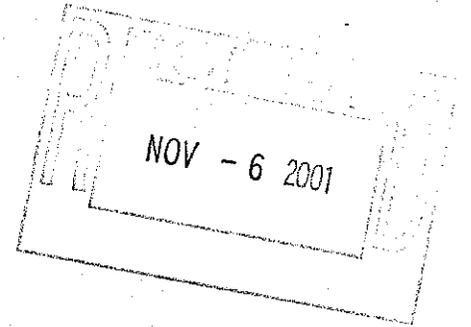
**OFFICE:** Engineering Services

**DATE:** November 5, 2001

**FROM:** David Mulling, <sup>DM</sup> Project Review Engineer

**TO:** Wayne Hutto, Assistant Director of Pre-construction

**SUBJECT:** CONCEPT REPORT



We have reviewed the concept report submitted October 19, 2001 by the letter from James R. Chambers dated October 18, 2001, and have no comment.

The costs for the project are:

Construction	\$825,000
Inflation	\$ <del>41</del> ,000
E&C	\$ 87,000
Reimbursable Utilities	\$ 10,000
Right of Way	\$ 12,000

DTM

c: Jim Chambers - Attention: Otis Clark

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BRST-011-1(55)		<b>County:</b> HARRIS		<b>PI No.:</b> 333155-	
<b>Report Date:</b> 10/18/01		<b>Concept By:</b> DOT Office: CONSULTANT DESIGN			
<input checked="" type="checkbox"/> CONCEPT		Consultant: J. B. TRIMBLE, INC.			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>	100%				
<b>Judgement</b>	100%				
<b>Environmental</b>	100%				
<b>Right of Way</b>	100%				
<b>Utility</b>	100%				
<b>Constructability</b>	100%				
<b>Schedule</b>	100%				

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** **BRST-011-1(55) Harris County**  
SR 1/US 27 over Mountain Creek 1.6 mi N of SR 190  
P.I. No. 333155-

**OFFICE** Atlanta

**FROM** *James R. Chambers, MGA*  
James R. Chambers, State Consultant Design Engineer

**DATE** October 18, 2001

**TO** Wayne Hutto, Assistant Director of Preconstruction

OCT 19 2001

**SUBJECT** **PROJECT CONCEPT REPORT**

Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

Those on the distribution list below should review the Concept Report and send comments and/or the signature page to the Preconstruction Office within 10 days as per the PDP.

If you have any questions or require further information please call Otis Clark at (404)463-6265 or Steve Tiedemann of J.B. Trimble, Inc. at (770) 952-1022.

*Distribution:*

David Mulling, Project Review Engineer  
Harvey Keepler, State Environmental/Location Engineer  
Phillip Allen, State Traffic Safety and Design Engineer  
Marta Rosen, State Transportation Planning Administrator  
Herman Griffin, State Transportation Programming Engineer  
Glenn Durrence, District Engineer – Thomaston  
Paul Liles, State Bridge & Structural Engineer

*mga*  
JRC: OC

cc: J.B. Trimble, Inc.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-011-1(55)

County: Harris

P.I. Number: 333155

Federal Route Number: US 27

State Route Number: SR 1

Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

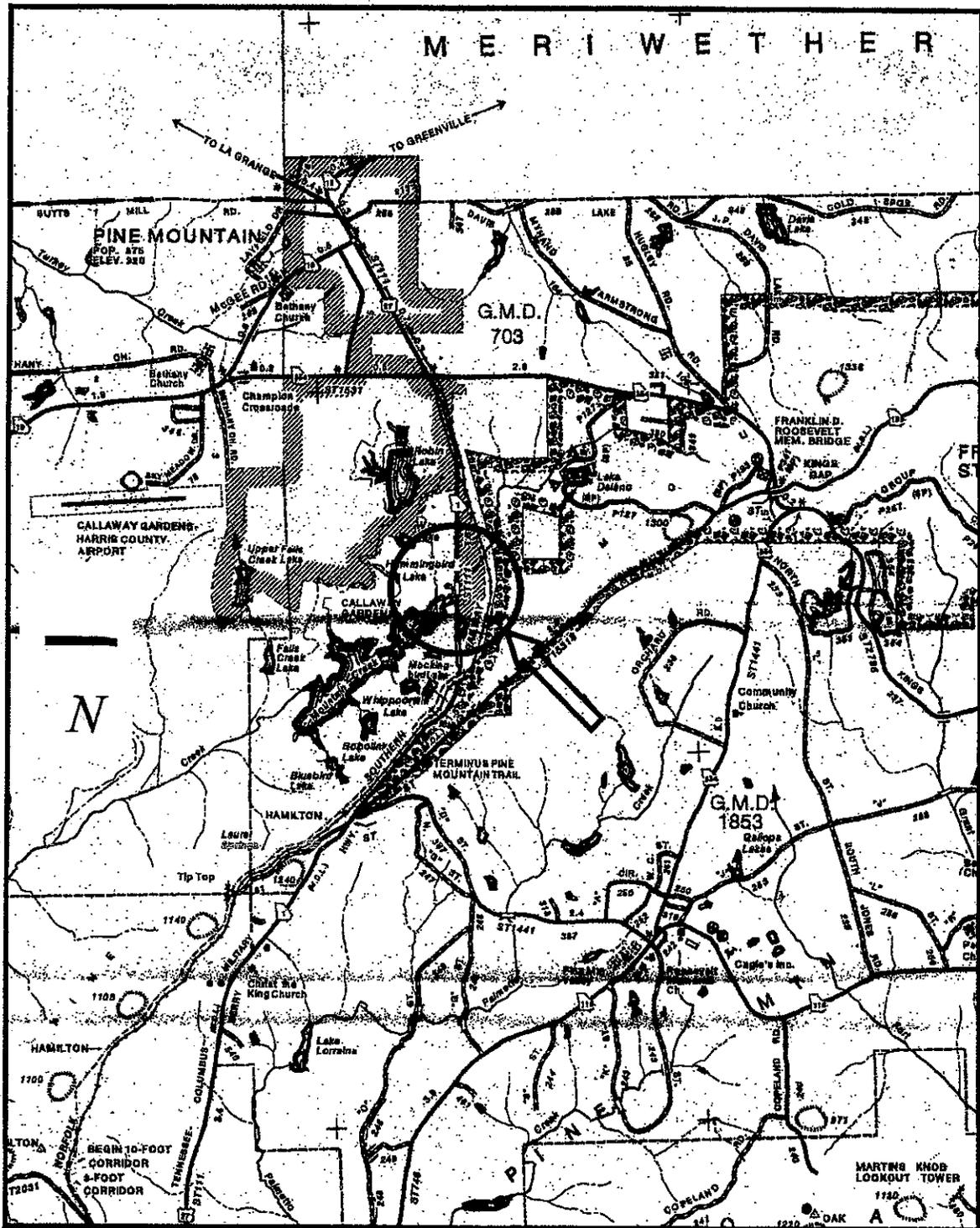
District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Design Engineer



## Location Map

**Project:** BRST-011-1(55) Harris County PI No.: 333155-  
**Description:** US 27 over Mountain Creek 1.6 mi N of SR 190

**PROJECT NEED & PURPOSE**

The purpose of BRST-011-1(55) is to replace the structurally deficient bridge with structurally adequate bridges to improve the operation and safety of this section of SR 1/US 27. See attached Need and Purpose Statement.

**DESCRIPTION OF PROPOSED PROJECT**

This project is located in Harris County over Mountain Creek, 1.6 miles north of SR 190. This project is flanked on both sides by Callaway Gardens property. The project consists of replacing a structurally deficient bridge on existing location. The new bridge will be constructed in two stages so that one lane of roadway will remain open at all times. A temporary traffic signal will control traffic during construction. The profile will be raised in order to provide vertical clearance for vehicles traveling below on the Callaway Gardens property. The adjacent property is heavily wooded with mature trees and shrubs. Callaway Gardens' golf course borders the project on the west side, along with a private pedestrian bridge and a 2-lane roadway bridge. Mountain Creek flows from east to west through all three structures. There is also a pedestrian path under the bridge that accesses the fenced portion of Callaway Gardens on the west side via a card reader.

**Project Length:** 0.25 miles

**Is the project located in a Non-attainment area?** No

**PDP CLASSIFICATION**

Full Oversight ( )                      Exempt ( X )                      State Funded ( )

**FUNCTIONAL CLASSIFICATION**

Rural Minor Arterial

<b>TRAFFIC</b>				
<b>CURRENT</b>		<b>PROJECTED</b>		
<u>YEAR</u>	<u>AADT</u>	<u>YEAR</u>	<u>AADT</u>	
2005	7300	2025	9800	

<b>EXISTING DESIGN FEATURES</b>				
<b>TYPICAL SECTION:</b> 2-12' lanes with 6' grassed shoulders				
<b>R/W WIDTH:</b> 80'				
<b>POSTED SPEED</b>	<b>MAX DEGREE OF CURVATURE</b>		<b>MAX GRADE</b>	
45 mph	0045'		3.9%	
<b>STRUCTURES:</b>	<b>Length</b>	<b>Width</b>	<b>Priority Rating</b>	<b>Suff. Rating</b>
SR 1/US 27 over Mountain Creek: 3-35' spans with steel beams and steel H pile bents	105'	26' (including 2' sidewalks)	2-09	21.4
<b>EXISTING ROADWAY SEGMENT LENGTH:</b> 0.25				
<b>BEGINNING MILE LOG FOR COUNTY SEGMENT:</b> 17.95				

<b>PROPOSED DESIGN FEATURES</b>		
<b>TYPICAL SECTION:</b> 2-12' lanes with 2' paved shoulders, and 8' grassed shoulders.		
<b>MAINLINE DESIGN SPEED</b>	<b>MAX DEGREE OF CURVE</b>	<b>MAX GRADE</b>
45 mph	Proposed: 0045' Allowable: 90	Proposed: 3.9% Allowable: 5%

Project Concept Report Page 5  
 Project Number: BRST - 011-1(55)  
 P.I. Number: 333155  
 County: Harris

PROPOSED RIGHT OF WAY				
R/W WIDTH: 140'				
EASEMENTS:	Temporary ( x )	Permanent ( x )	Utility ( )	Other ( )
TYPE OF ACCESS CONTROL:	Full ( )	Partial ( )	By Permit ( x )	Other ( )
NUMBER OF PARCELS IMPACTED: 2				
DISPLACEMENTS:	Businesses ( )	Residences ( )	Mobile Homes ( )	Other ( )

PROPOSED STRUCTURES		
	LENGTH	WIDTH
Bridge: SR 30 over Mountain Creek	120'	44'
<b>Description:</b> The bridge will be 120' long with 3-4 spans and will be constructed in stages on existing location. The design will allow for 10.5' vertical clearance and 15' horizontal clearance for a proposed access roadway underneath.		

MAJOR INTERSECTIONS AND INTERCHANGES
<b>Description:</b> None

TRAFFIC CONTROL DURING CONSTRUCTION
<b>Description:</b> During the first construction stage, the east side of the new bridge will be constructed while one way traffic crosses the existing bridge on the west side. Once the east side is constructed, traffic will shift to this side while the west side is being constructed. A temporary signal will be used to alternate lane use between north and southbound traffic. Temporary concrete barriers will be used as well as sheet pile to separate construction and the travel ways. The site will be closed to pedestrian traffic (under the bridge) during construction.

**DESIGN EXCEPTIONS TO CONTROLLING CRITERIA ANTICIPATED:**

	YES	NO	UNDETERMINED
HORIZ ALIGNMENT	( )	(X)	( )
ROADWAY WIDTH	( )	(X)	( )
SHOULDER WIDTH	( )	(X)	( )
VERT GRADES	( )	(X)	( )
CROSS SLOPES	( )	(X)	( )
STOPPING SIGHT DIST	( )	(X)	( )
SUPERELEV RATES	( )	(X)	( )
HORIZ CLEARANCE	( )	(X)	( )
SPEED DESIGN	( )	(X)	( )
VERTICAL CLEARANCE	( )	(X)	( )
BRIDGE WIDTH	( )	(X)	( )
BR STRUCT CAPACITY	( )	(X)	( )

**Design Variances:** None

**Environmental Concerns:** Possible involvement with private recreation facility; likely involvement with waters of the U.S. A USCOE NWP 23 with PCN is anticipated.

**LEVEL OF ENVIRONMENTAL ANALYSIS**

Are Time Saving Procedures Appropriate? Yes (X) No ( )

Categorical Exclusion (X)  
 Anticipated

Environmental Assessment /  
 Finding of No Significant  
 Impact (FONSI) ( )

Environmental Impact  
 Statement ( )

**UTILITY INVOLVEMENTS**

TELEPHONE: BellSouth

POWER: Georgia Power

GAS: Unknown

CABLE TV: Unknown

Project Concept Report Page 7  
Project Number: BRST - 011-1(55)  
P.I. Number: 333155  
County: Harris

### **PROJECT RESPONSIBILITIES**

DESIGN: Earthtech

RIGHT OF WAY ACQUISITION: Georgia Department of Transportation

RELOCATION OF UTILITIES: Harris County is responsible for reimbursable utilities

LETTING TO CONTRACT: Georgia Department of Transportation

SUPERVISION OF CONSTRUCTION: Georgia Department of Transportation

PROVIDING MATERIAL PITS: Contractor

PROVIDING DETOURS: NA

### **COORDINATION**

CONCEPT TEAM MEETING DATE (Minutes Attached):

MEETS LOGICAL TERMINI REQUIREMENTS: Yes

P.A.R. MEETING: None

LOCATION INSPECTION DATE: December 21, 2000

FEMA, USCG AND/OR TVA: None

LEVEL OF PUBLIC INVOLVEMENT: Meetings with Callaway Gardens (The affected property owner)

LOCAL GOVERNMENT COMMITMENTS: LGPA signed 8-3-99 for utilities only.

OTHER PROJECTS IN THE AREA: None

OTHER COORDINATION TO DATE: None

<b>SCHEDULING (Responsible Party's Estimate)</b>		
TIME TO COMPLETE ENVIRONMENTAL PROCESS:	6	Months
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	4	Months
TIME TO COMPLETE 404 PERMIT:	4	Months
TIME TO COMPLETE FINAL CONSTRUCTION PLANS:	3	Months
TIME TO PURCHASE RIGHT-OF-WAY:	9	Months
OTHER MAJOR ITEMS THAT WILL AFFECT PROJECT SCHEDULE:	Input from Callaway Gardens	

<b>ALTERNATIVES CONSIDERED</b>
<p><b>Alternate 1</b> – This alternate consists of replacing the existing bridge on existing location. The bridge will be constructed in stages and will allow one lane to be open at all times during construction. A temporary signal will be used to control traffic during construction of the new bridge. This alternate was chosen because it has the least impacts on the Callaway Gardens property and Mountain Creek.</p> <p><b>Alternate 2-</b> This alternate involves removing and replacing the existing bridge while maintaining traffic on a 9-mile offsite detour. This alternative was not chosen due to the 9 mile length and the opposition from Callaway Gardens because of the inconvenience the detour will create for the guests staying on the property.</p> <p><b>Alternate 3</b> - This alternate consists of replacing the existing bridge on existing location. A detour bridge will be constructed to the east of the existing bridge location to handle traffic. This alternative was not chosen because of the impacts the detour will have on the Callaway Gardens property and on Mountain Creek and its tributary. The additional cost for providing and removing the 1,700' detour is \$450,000.</p> <p><b>Alternate 4</b> – This alternate consists of replacing the existing bridge on existing location. A detour bridge will be constructed to the west of the existing bridge location to handle traffic. This alternative was not chosen because of the significant impacts the detour will have on the Callaway Gardens property. A detour to this side will impact a small pond, a large lake, a pedestrian bridge, and a 2 – lane road with a bridge. The additional cost is approximately \$450,000.</p> <p><b>Alternate 5</b> – No Build – This alternate was not chosen because the Federal Highway Administration has determined that any structure with a sufficiency rating less than 50 should be replaced. The sufficiency rating for this bridge is 21.4 and therefore requires replacement.</p>

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Project Number: BRST - 011-1(55)  
P.I. Number: 333155  
County: Harris

COMMENTS: A concrete box culvert was also considered for this project. Even though the drainage area is approximately 2 square miles, this alternate was not chosen due to the pedestrian underpass and because of the close proximity of the road to the private pedestrian and road bridges on the west side. After crossing under SR 1, Mountain Creek immediately turns south and runs along the toe of the existing slope before turning west and going under the private road into the lake. The pedestrian bridge is actually located in the streambed and also parallels SR 1. Hence there is insufficient room to construct a culvert without rebuilding the other two bridges as well. Therefore, Alternate 1 was chosen as the most appropriate alternate.

**ATTACHMENTS:**

- ξ Detailed Cost Estimate
- ξ Sketch Location Map
- ξ Typical Sections
- ξ Estimated traffic assignments
- ξ Need and Purpose Statement
- ξ Concept Team meeting minutes
- ξ Notice of Location and Design Approval
- ξ Bridge inventory data
- ξ Meeting minutes for coordination meeting with Callaway Gardens

**PREPARED BY: Brittain W. Hennessey E.I.T.**

**Under the Supervision of : Scott Gero, P.E.**

Project Concept Report Page 10  
 Project Number: BRST - 011-1(55)  
 P.I. Number: 333155  
 County: Harris

<b>ESTIMATED COST</b>			
CONSTRUCTION:	\$825,403	RIGHT-OF-WAY:	\$12,000
INFLATION :	\$41,270	ACQUIRED BY :	GDOT
E & C (10%) :	\$86,667	UTILITIES :	\$10,000
		ADJUSTED BY :	Locals
<b>TOTAL CONSTRUCTION COST:</b>		<b>\$953,340</b>	
<b>TOTAL PROJECT COST:</b>		<b>\$965,340</b>	

**PRELIMINARY COST ESTIMATE**

PROJECT NUMBER: BRST-011-1(55)

COUNTY: Harris

DATE: June 22, 2001

ESTIMATED LETTING DATE:

PREPARED BY: BWH

PROJECT LENGTH: 0.25 miles

( ) PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

<b>PROJECT COST</b>			
<b>A. RIGHT-OF-WAY:</b>			
1. PROPERTY (LAND & EASEMENT) 1.76 AC		\$	8800
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0		\$	
3. OTHER COST (ADM./COST, INFLATION)		\$	
4. R/W MARKERS	8 EA @ \$400	\$	3,200
SUBTOTAL: A			\$ 12,000
<b>B. REIMBURSABLE UTILITIES:</b>			
1. RAILROAD		\$	
2. TRANSMISSION LINES		\$	
3. SERVICES		\$	10000
SUBTOTAL: B			\$ 10,000
<b>C. CONSTRUCTION:</b>			
<b>1. MAJOR STRUCTURES</b>			
a. BRIDGES			
		\$	384000
SUBTOTAL: C-1.a			\$ 384,000
b. OTHER			
SUBTOTAL: C-1.b			\$ -
SUBTOTAL: C-1			\$ 384,000
<b>2. GRADING AND DRAINAGE:</b>			
a. EARTHWORK			
Borrow	9000	CY @ \$7.5	\$ 67,500
Excavation	1600	CY @ \$7.5	12,000
SUBTOTAL: C-2a			\$ 79,500

<b>b. DRAINAGE</b>			
1) Side Drain Pipe	50	LF @ \$21	\$ 1,050
2) Storm drain pipe	150	LF @ \$44	\$ 6,600
4) Flared End Sections	6	EA @ \$280	\$ 1,680
5) Perforated Underdrain	100	LF @ \$6	\$ 600
6) Temporary Pipe Slope Drain	100	LF @ \$24	\$ 2,400
SUBTOTAL: C-2.b			\$ 12,330
SUBTOTAL: C-2			\$ 91,830
<b>3. BASE AND PAVING:</b>			
a. AGGREGATE BASE	4050	SY @ \$10	\$ 40,500
<b>b. ASPHALT PAVING (Mainline &amp; Cross-Roads):</b>			
19 mm Superpave	465	Tons @ \$43	\$ 19,995
25 mm Superpave	927	Tons @ \$37	\$ 34,299
9.5 mm Superpave	227	Tons @ \$42	\$ 9,534
SUBTOTAL: C-3.b			\$ 63,828
c. CLASS "B" CONCRETE	100	CY @ \$146	\$ 14,600
d. OTHER (Leveling, Tack Coat, Milling)			\$ 1,000
e. AGGREGATE SURFACE COURSE	55	Tons @ \$19	\$ 1,045
SUBTOTAL: C-3			\$ 120,973

<b>4. EROSION CONTROL</b>				
a. SILT FENCE				
1. TYPE A		1950 LF @ \$3.5	\$	6,825
2. TYPE B		200 LF @ \$2.6	\$	520
3. TYPE C		450 LF @ \$5.3	\$	2,385
SUBTOTAL: C-4a			\$	9,730
b. RIP RAP		1000 SF @ \$30	\$	30,000
c. PLASTIC FILTER FABRIC		1000 SF @ \$5.8	\$	5,800
d. PERMANENT SOIL REINFORCING MAT		1500 SY @ \$5	\$	7,500
SUBTOTAL: C-4			\$	<b>53,030</b>
<b>5. LUMP ITEMS</b>				
a. GRASSING			\$	8000
b. CLEARING AND GRUBBING			\$	10000
c. TRAFFIC CONTROL			\$	70000
SUBTOTAL: C-5			\$	<b>88,000</b>
<b>6. MISCELLANEOUS:</b>				
a. LIGHTING			\$	
b. SIGNING - MARKING			\$	3000
c. GUARDRAIL				
W Beam		800 LF @ \$12	\$	9,600
T Beam		83 LF @ \$40	\$	3,320
Anchors	TYPE 12	2 @ \$1600	\$	3,200
	TYPE 1	2 @ \$450	\$	900
SUBTOTAL: C-6.c			\$	17,020
d. SIDEWALK			\$	
e. MEDIAN / SIDE BARRIER			\$	
f. APPROACH SLABS		195 SY @ \$90	\$	17,550
g. REMOVAL				
Bridges (1)			\$	50000
SUBTOTAL: C-6.g			\$	50,000
h. OTHER				
SUBTOTAL: C-6			\$	<b>87,570</b>
<b>7. SPECIAL FEATURES</b>				
SUBTOTAL: C-7			\$	

<b>SUMMARY</b>	
A. RIGHT-OF-WAY	\$ 12,000
B. REIMBURSABLE UTILITIES	\$ 10,000
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$ 384,000
2. GRADING AND DRAINAGE	\$ 91,830
3. BASE AND PAVING	\$ 120,973
4. EROSION CONTROL	\$ 53,030
5. LUMP ITEMS	\$ 88,000
6. MISCELLANEOUS	\$ 87,570
7. SPECIAL FEATURES	\$ -
SUBTOTAL CONSTRUCTION COST	\$ 825,403
INFLATION (5% PER YEAR)	\$ 41,270
NUMBER OF YEARS	1
E. & C. (10%)	\$ 86,667
TOTAL CONSTRUCTION COST	\$ 953,340
<b>GRAND TOTAL PROJECT COST</b>	<b>\$ 965,340</b>

**NEED AND PURPOSE**  
**PROJECT BRST-011-1(55), HARRIS COUNTY**  
**PI No. 333155**  
**BRIDGE REPLACEMENT**

Bridge project BRST-011-1(55) in Harris County will replace the structurally deficient bridge located on State Route 1/U.S. 27 over Mountain Creek. The bridge's sufficiency rating is 21.4. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. This project will replace the existing bridge with a structurally adequate bridge.

This section of State Route 1/ U.S. 27 is functionally classified as a rural minor arterial and is a designated school bus route. State Route 1/ U.S. 27 is not on the state bicycle network. The posted speed limit along this roadway is 45 mph. The bridge is located approximately 1.6 miles north of State Route 190 and is near one of the main entrances to Callaway Gardens. The bridge was constructed in 1950. The Annual Average Daily Traffic (AADT) along this section of roadway was 5,540 in 1999. The projected (2025) AADT for this section of roadway is 9,800 with 11% trucks.

Replacing this bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway. Currently, there are no plans to widen State Route 1/U.S. 27 through this area.

## NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRST-011-1(55)

P.I. No. 333155

Notice is hereby given in compliance with Georgia code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location approval is NOVEMBER 27, 2001

This project is located entirely in Harris County on US 27/SR 1 over Mountain Creek, 1.6 miles north of SR 190. The project is located within Land District 3, Land Lot numbers 9 and 10.

This project consists of the replacement of the structurally deficient bridge on US 27/SR 1 over Mountain Creek. The proposed bridge structure will be built on the existing location. The bridge will be constructed in stages.

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

Mr. Dewayne Meacham  
Dewayne.Meacham@dot.state.ga.us  
Columbus, Georgia 31907  
(706) 568-2165

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:

Otis Clark  
Office of Consultant Design  
Otis.Clark@dot.state.ga.us  
No. 2 Capital Square  
Atlanta, Georgia 30334  
404-463-6265

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

ε

2110 Newmarket Parkway, Suite 205  
Marietta, Georgia 30067  
(770) 956-5340 Fax (770) 956-5345

## CONCEPT TEAM MEETING

BRST-011-1(55), Harris County

P.I. No. 333155

S.R. 1/US 27 over Mountain Creek

**DATE:** August 13, 2001

**SUBJECT:** Concept Team Meeting Minutes

<b>ATTENDEES:</b>	Kerry Gore	GDOT - Utilities	(706)646-6552
	Gene McKissick	GDOT	(706) 646-6571
	Edsel D. Meacham	GDOT	(706) 568-2165
	Katie Mullins	GDOT - Programming	(404) 651-7043
	Scott Parker	GDOT	(706) 646-6561
	Tom Queen	GDOT	(706) 646-6591
	Todd Repass	GDOT	(706) 221-3793
	Steve Tiedemann	J.B. Trimble	(770) 952-1022
	Rick Waterhouse	Callaway Gardens	(706) 663-5010
	Brittain Hennessey	Earthtech	(770) 956-2984

**Notes prepared by:** Brittain Hennessey, Earthtech

A Concept Team Meeting was held on the above project on August 8, 2001 at the Thomaston/Upson County Archive building. Steve Tiedemann called the meeting to order at 10:00 AM, and then presented the project. The following comments/discussions were noted:

Steve Tiedemann (J.B. Trimble) presented the conceptual layout and explained several alternates that had been considered. Due to the fact that the existing alignment is on a long tangent, the bridge is being replaced in the same location. Rick Waterhouse (Callaway Gardens) was not in favor to an offsite detour because patrons of the Callaway Gardens Inn, conference center and villas would have to drive six miles out of the way to check in. A temporary detour to either the east or the west would cost approximately \$480,000 and would require clearing a lot of mature trees and shrubs adjacent to the right of way on Callaway Gardens property. The last alternative consisted of the bridge being constructed in two stages with a temporary signal controlling traffic during construction. Mr. Waterhouse indicated that this alternative had the least impact on the gardens and was in support of it.

Gene McKissick (GDOT) questioned the safety of the temporary signal being used during construction staging. He was concerned about accidents and how well the signal would work, especially at night and during power outages.

Tom Queen defended the temporary signal stating that this type of signal has been used several times in Cobb County and has worked well. He noted that the locations the signals were used in Cobb County were similar to this project (including ADT).

Mr. Waterhouse asked if police could run the signal manually during Callaway events that create heavy traffic in this area. Those in attendance agreed that this would be possible.

The use of a retaining wall at the southwest end of the project may be required to keep the fill out of the creek and to reduce impacts to the pedestrian walkway adjacent to the project. Earthtech will explore this option in the development of the preliminary plans.

8

2110 Newmarket Parkway, Suite 205  
Marietta, Georgia 30067  
(770) 956-5340 Fax (770) 956-5345

## CONCEPT TEAM MEETING

BRST-011-1(55), Harris County

P.I. No. 333155

S.R. 1/US 27 over Mountain Creek

There is an existing driveway on the southeast quadrant of the project that serves the engineering building and the villas. Due to the close proximity of the driveway to the bridge, it was requested that the driveway not become any steeper. This request will be addressed during preliminary plans.

Mr. Waterhouse was concerned about the amount of proposed right-of-way shown on the display. The proposed right of way shown would encompass a pedestrian bridge and a separate roadway and bridge, making them the responsibility of the Department to maintain. Mr. Tiedemann explained that the right of way shown was for concept purposes only and that it was not intended to include Callaway's improvements. It will most likely be reduced during preliminary design once the construction limits are finalized.

Mr. Waterhouse offered the possible availability of fill dirt from the Callaway Gardens Property for this project.

Steve Tiedemann suggested keeping a temporary security fence in place during construction because a fence is currently located on the Callaway Gardens property.

Earthtech will provide Kerry Gore with 8 sets of the display so that he can distribute them for utility location.

Revisions to the concept report were discussed and Earthtech will address the following comments:

- Time saving procedures are appropriate on this project.
- Bell South and GA Power both have utilities in the area.
- A US Army Corps of Engineers Nationwide Permit 23 with PCN will be required rather than the NWP14.
- FHWA, not GDOT, is the agency that has determined that any structure with a sufficiency rating less than 50 shall be replaced.

# E

Earthtech  
2110 Newmarket Parkway, Suite 205  
Marietta, Georgia 30067  
(770) 956-5340 Fax (770) 956-5345

## MEETING MINUTES

**DATE:** June 28, 2001

**PROJECT:** BRST-011-1(55)  
P.I. No. 333155  
SR 1/ US 27 at Mountain Creek

**SUBJECT:** Meeting Minutes

<b>ATTENDEES:</b>	Rick Waterhouse	Callaway Gardens	(706) 663-5057
	Steve Tiedemann	J.B. Trimble	(770) 952-1022
	Britt Hennessey	Earthtech	(770) 956-5340

Notes prepared by: Britt Hennessey, Earthtech

A meeting with Rick Waterhouse, Vice President of Design & Engineering for Callaway Gardens, was held June 28, 2001 at his Callaway Gardens office. Callaway Gardens owns all of the property on both sides of the road. Steve Tiedemann explained the proposed alternatives that have been considered. The first alternative consists of closing SR 27 during construction and detouring traffic via SR 354 to SR 190 to SR 27, a distance of approximately 9 miles. The second alternate utilizes a temporary detour either to the east or to the west while replacing the bridge in place. The third option is the recommended alternative and consists of constructing the bridge in place while maintaining 1 lane of traffic at all times throughout the project. This would be accomplished by using a temporary traffic signal to control one-way traffic. Based on earlier conversations with Rick, 10.5' of vertical clearance and 15' of horizontal clearance will be provided for the to accommodate the existing paved pedestrian walkway under the bridge.

Rick did not like the first alternate because it forces guests approaching from Pine Mountain that are checking in to the inn on the south side of the creek to go a long way out of the way. Also, guests staying in the villas on the north side of the creek must check in at the same location and follow the same route.

Rick was also opposed to the second alternative for two reasons. First, due to the close proximity of the road to the adjacent pedestrian and roadway bridges on the west side, a temporary detour route could not be constructed without rebuilding both of these structures as well. A detour on the east side would require a long bridge to span the tributaries that flow in to the main channel. Secondly, mature stands of hardwood trees and ornamental shrubs line the road on either side that contribute to the park-like nature of Callaway Gardens. These stands would be heavily impacted with an on-site detour.

There were no objections to the third concept and Rick and liked the alternate that has been recommended. He has concern for the trees that may be affected by this project. Earthtech will request an updated survey so that the tree line will be shown on the plans. Once this information is obtained, a copy will be sent to him. Steve indicated that the proposed alternative is subject to Department approval.

Rick would like to be included in the meetings pertaining to this project. The concept layouts were given to him for his use.

To: Ted Cashin  
Subject: P.I. No. 333155 Harris Co.

## Department of Transportation State of Georgia

---

### INTERDEPARTMENT CORRESPONDENCE

**FILE** BRST-011-1(55) Harris Co. **OFFICE** Environment/ Location  
P.I. No. 333155 **DATE** October 18, 2000

**FROM** Harvey D. Keeper, State Environmental/ Location Engineer

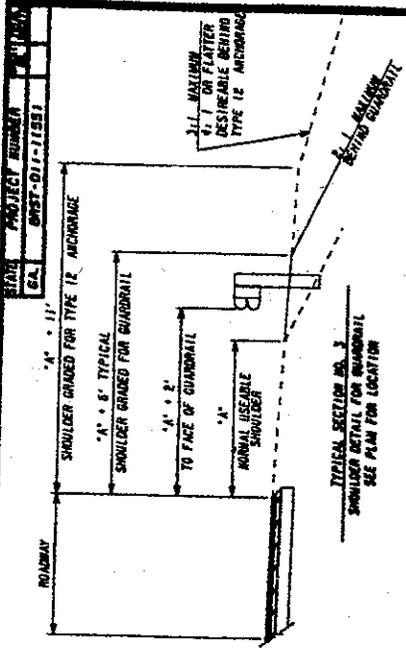
**TO** Jim Chambers, Office of Consultant Services  
**ATTN: Ted Cashin**

**SUBJECT** SR 1/US 27 @ Mountain Creek

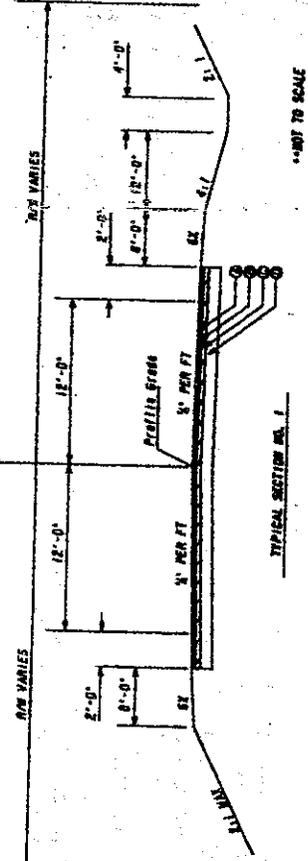
We are furnishing estimated traffic assignments for the above project as follows:

2005 ADT = 7300  
2025 ADT = 9800  
K = 10%  
D = 60%  
T = 9%  
24 HR T = 11%  
SU = 5%  
COMB = 6%

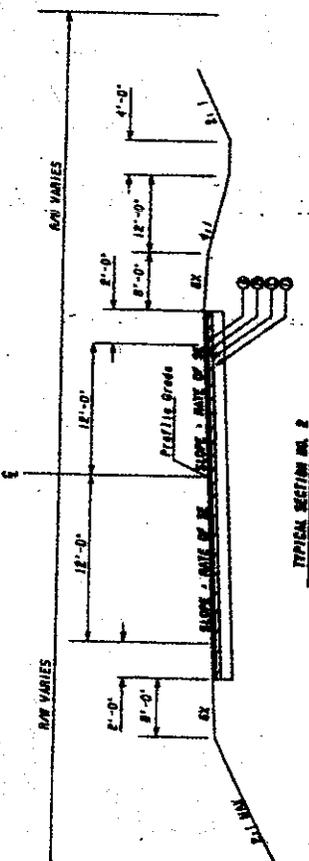
If you have any questions concerning this information please contact  
Gary Langford at (404)699-4404.



TYPICAL SECTION NO. 1  
SHOULDER DETAIL FOR GUARDRAIL  
SEE PLAN FOR LOCATION



TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 3

**ALLOWABLE RANGES TABLE**

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES/SECTION WITH GRADES LESS THAN 0.5%	MINIMUM	DESIRABLE	MAXIMUM
1.5% - MINIMUM	1.0%	1.5%	2.0%
2.0% - DESIRABLE	1.5%	2.0%	2.5%
2.5% - MAXIMUM	2.0%	2.5%	3.0%

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR S.E. RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SET)

RATE OF CHANGE	MINIMUM	DESIRABLE	MAXIMUM
1.5%	1500	2000	2500
2.0%	1000	1500	2000
3.0%	750	1000	1500

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

BOX OF TRANSITION INSIDE CURVE - MAXIMUM	MINIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE	20% OF TRANSITION INSIDE CURVE - MINIMUM

E. SMOOTHING OF BREAKS IN EDGE PROFILES AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVING WITH A MINIMUM LENGTH IN METERS EQUAL TO THE SPEED DESIGN OR 10% DIVIDED BY E.

- RECYCLED ASPHALT**
- 100 LB/TON RECYCLED ASPHALT CONC 2.5 IN. MINIMUM, 0.75 INCH BITUM
  - 250 LB/TON RECYCLED ASPHALT CONC 1.5 IN. MINIMUM, 0.75 INCH BITUM
  - 400 LB/TON RECYCLED ASPHALT CONC 0.75 IN. MINIMUM, 0.75 INCH BITUM
  - 10" MINIMUM GRANULAR BASE
- NOTE: SMOOTHING DESIGN LEVEL ON THIS PROJECT SHALL BE DESIGN LEVEL "A"

DATE	BY	REVISIONS
01/11/11	JLL	1
02/10/11	JLL	2
02/10/11	JLL	3
02/10/11	JLL	4

\* REQUIRES GUARDRAIL

STATE PROJECT NUMBER  
GA 0002-011-11881

ROADWAY

ROADWAY

ROADWAY

ROADWAY

ROADWAY

GEORGIA  
DEPARTMENT OF TRANSPORTATION  
TYPICAL SECTIONS  
PROJECT: SR 1405 BY B MOUNTAIN CROSS  
COUNTY: HARRIS  
DATE:

DATE

DATE

DATE

DATE

DATE

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0005-0

Harris County

SUFF. RATING: 21.4

## Location & Geography

\* Structure I.D. No.: 145-0005-0  
 \* 200 Bridge Information: 06  
 \* 6A Feature Int.: MOUNTAIN CREEK  
 \* 6B Critical Bridge: 0  
 \* 7A Route Number Carried: SR000001  
 \* 7B Facility Carried: US 27  
 \* 9 Location: 2.1 MILES SOUTH PINE MOUNTAIN  
 \* 2 DOT District: 3  
 \* 207 Year Photo: 1997  
 \* 91 Inspection Frequency: 24 Date: 12/07/1999  
 \* 92A Fract Crit Insp Freq: 0 00 Date: 0000  
 \* 92B Underwater Insp Freq: 0 00 Date: 0000  
 \* 92C Other Spc. Insp Freq: 0 00 Date: 0000

\* 104 Highway System: 0  
 \* 26 Functional Classification: 06  
 \* 204 Federal Route Type: F No: 011-1  
 \* 110 Truck Route: 0

\* 206 School Bus Route: 1  
 \* 217 Benchmark Elevation: 0.00  
 \* 218 Datum: 0  
 \* 19 Bypass Length: 9  
 \* 20 Toll: 3  
 \* 21 Maintenance: 01  
 \* 22 Owner: 01  
 \* 31 Design Load: 2  
 \* 37 Historical Significance: 5  
 \* 205 Congressional District: 03  
 \* 27 Year Constructed: 1950  
 \* 306 Year Reconstructed: 0000  
 \* 33 Bridge Median: 0  
 \* 34 Skew: 30  
 \* 35 Structure Flared: 0  
 \* 38 Navigation Control: 0  
 \* 213 Special Steel Design: 0  
 \* 267 Type of Paint: 1

\* 223 Expansion Joint Type: 02  
 \* 242 Deck Drains: 1  
 \* 243 Parapet Location: 0  
 \* Height: 0  
 \* Width: 0  
 \* 238 Curb: 1.01  
 \* 239 Handrail: 11  
 \* 240 Median Barrier Rail: 0

\* 241 Bridge Median Height: 0  
 \* Width: 0  
 \* 230 Guardrail Loc Dir Rear: 3  
 \* Fwrd: 3  
 \* Oppo Dir Rear: 0  
 \* Fwrd: 0

\* 244 Approach Slab: 3  
 \* 224 Retaining Wall: 0

\* 233 Posted Speed Limit: 45  
 \* 236 Warning Sign: 0  
 \* 234 Delineator: 1  
 \* 235 Hazard Boulders: 1

\* 237 Utilities Gas: 00  
 \* Water: 00  
 \* Electric: 00  
 \* Telephone: 32  
 \* Sewer: 00

\* 247 Lighting Street: 0  
 \* Navigation: 0  
 \* Aerial: 0

\* 248 County Continuity No: 09

\* 4 Place Code: 00000

\* 5 Inventory Route (O/U): 1  
 \* Type: 2  
 \* Designator: 1  
 \* Number: 00027  
 \* Direction: 0

\* 16 Latitude: 32-50.0  
 \* 17 Longitude: 84 -50.6

\* 98 Border Bridge: 000 %Shared: 00  
 \* 99 ID Number: 0000000000000000

\* 100 Defense Highway: 0  
 \* 101 Parallel Structure: N  
 \* 102 Direction of Traffic: 2  
 \* 264 Road Inventory Mile Post: 018.07

\* 208 Inspection Area: 08 Initials: JLA

\* Location I.D. No: 145-00001D-018.29N  
 \* XReferen I.D. No: 000-000000-000.000

## Signs & Attachments

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0005-0

Harris County

SUFF. RATING: 21.4

## Programming Data

201 Project No: F-011-1 (1)  
 202 Plans Available: 0  
 249 Prop. Proj No: BRST-011-1 (55)  
 250 Approval Status: 0000  
 251 P.I. No: 333155  
 252 Contract Date: 02/01/2003  
 260 Seismic No: 00000  
 75 Type Work: 34 1  
 94 Bridge Imp. Cost: \$ 113  
 95 Roadway Imp. Cost: \$ 42  
 96 Total Imp. Cost: \$ 206  
 76 Imp. Length: 000316  
 97 Imp. Year: 1990  
 114 Future ADT: 010515 Year: 2018

## Measurements

\* 29 ADT: 007010 Year: 1998  
 109 % Trucks: 19  
 \* 28 Lanes On: 02 Under: 00  
 210' No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0035  
 \* 49 Structure Length: 105  
 51 Br. Rdwy. Width: 26.0  
 52 Deck Width: 30.1  
 \* 47 Tot. Horz. Cl: 26.0  
 50 Curb/Sdewlk Width: 2.0/2.0  
 32 Approach Rdwy Width: 029  
 \* 229 Sllder Width:

Rear Lt: 2.0 Type: 2 Rt: 2.0  
 Fwd Lt: 2.0 Type: 2 Rt: 2.0  
 Pymt Width:

Rear: 24.5 Type: 2  
 Fwd: 24.5 Type: 2  
 Intersection Rear: 0 Fwd: 0

36 Safety Features Br. Rail: 2  
 Transition: 2  
 App. G. Rail: 2  
 App. Rail End: 2

53 Minimum Cl. Over: 99' 99"  
 Under: N 00' 00"  
 \* 228 Min. Vert. Cl

Act. Odm. Dir: 99' 99"  
 Oppo. Dir: 99' 99"  
 Posted Odm. Dir: 00' 00"  
 Oppo. Dir: 00' 00"

55 Lateral Undercl. Rt: N 99.9  
 56 Lateral Undercl. Lt: 0.0  
 \* 10 Max Min Vert Cl: 99' 99" Dir: 0  
 39 Nav Vert Cl: 000 Horz: 0000  
 116 Nav Vert Cl Closed: 000  
 245 Deck Thickness Main: 6.7  
 Deck Thick Approach: 0.0  
 246 Overlay Thickness: 4.0  
 211 Tons Structural Steel: 22.0  
 212 Year Last Painted: Sup: 1970 Sub: 1970

## Hydraulic Data

215 Waterway Data  
 Highwater Elev: 0000.0 Year: 0000  
 Flood Elev: 0000.0 Freq: 00  
 Avg. Streambed Elev: 0000.0  
 Drainage Area: 00000  
 Area of Opening: 000000  
 113 Scour Critical: 6  
 216 Water Depth: 1 Br Height: 14  
 222 Slope Protection: 6  
 221 Spur Dikes Rear: 0 Fwd: 0  
 219 Fender System: 0  
 220 Dolphin: 0  
 223 Culvert Cover: 000  
 Type: 0  
 No Barrels: 0  
 Width: 0.0  
 Height: 0.0  
 Length: 0  
 Apron: 0  
 \* 265 U/W Insp. Area: 0 Diver: ZZZ

\* Location I.D. No: 145-00001D-018.29N  
 \* XReferen I.D. No: 000-000000-000.000

## Ratings

66 Inventory Type: 2 Rating: 13  
 64 Operating Type: 2 Rating: 29  
 231 Calculated Loads

H-Modified: 14 1  
 HS-Modified: 22 1  
 Type 3: 18 1  
 Type 3s2: 33 1  
 Timber: 25 1  
 Piggyback: 00 0

261 H Inventory Rating: 10  
 262 H Operating Rating: 15  
 67 Structural Evaluation: 2  
 58 Deck Condition: 6  
 59 Superstructure Condition: 5  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 6  
 60B Scour Condition: 8  
 60C Underwater Condition: N  
 71 Waterway Adequacy: 8  
 61 Channel Protection Cond: 8  
 68 Deck Geometry: 2  
 69 UnderClr. Horz/Vert: N  
 72 Appr. Alignment: 8  
 62 Culvert: N

## Posting Data

70 Bridge Posting Required: 3  
 41 Struct Open, Posted, Cl: P  
 \* 103 Temporary Structure: T  
 232 Posted Loads H-Modified: 14  
 HS-Modified: 22  
 Type 3: 18  
 Type 3S2: 33  
 Timber: 25  
 Piggyback: 00  
 253 Notification Date: 0000  
 253 Fed Notify Date: 0000 2

<b>PI NUMBER</b>									<b>READY</b>
<b>PROJECT</b>	<b>COUNTY</b>		<b>DESCRIPTION</b>						<b>TO LET</b>
333155-	HARRIS		SR 1/US 27 @ MOUNTAIN CREEK 1.8 MI N OF SR 190						0207
BRST-011-1(55)	US:		<u>APPROVED DATES</u> PE DATE: 9910 RW DATE: 2003 CST DATE: 2003						
PROJ MGR T. CASHIN			<u>PROPOSED DATES</u> TTI PE DATE: 9910 TTI RW DATE: 2003 TTI CST DATE: 2003						
PROG TYPE: REPLACEMENT			<u>APPROVED COSTS</u> PES: \$5,000 RW COST: \$10,000 CST EST \$348,000						
CONCEPT:			<u>PROPOSED COSTS</u> TTI PES: \$5,000 TTI RWS: \$10,000 TTI CSTS \$348,000						
P.E. PROJECT: BRST-011-1(55)	NN: 55.5		REF PROJ: TWIN PROJ: EST DATE: 4/15/99						
LENGTH: 0.22	C DIST 3	FIELD DIST: 3	STATUS: PRECST	TIP #:	UAC: 0			FUND I: Q10	

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		DEFINE CONCEPT RPT:			00	
		CONCEPT MEETING:				
		SUB RTP TO ENG SERVICES:				
		REC ENG SERV APPROVAL:				
		MGT APPROV CPT REPORT:			00	
		ENVIRONMENTAL:	7/1/01	12/31/01	00	
		PUBLIC HEARING:				
		PHOTO MAPPING:			01	TO SCHEDULE AFTER RECEIPT
		FIELD SURVEY:			00	OF WORK ORDER
		FINAL ALT APPRV:				SCHEDULE PER SSE.
		PRELIM FPR HELD:				
		PREL RDWY RW PLANS:			00	
		SECURE 404 PROCESS:			00	
		LOC DZN APPRV:			00	
		FINAL CST PLANS:			00	
		APPRV RW PLANS:			00	
		STAKE RW:			00	
		FINAL FPR HELD:				
		LAB REC V SOIL REQUEST:			00	
		PREL HYDR PLANS:			00	
		LAB BFI REQUEST:			00	
		BRIDGE PLANS:			00	
		U.S.T.s:			00	

**BIKE PROVISIONS INCLUDED?:** MEASUREMENT SYSTEM: CONSULTANT: C UT EST: \$0.00

**PDD:** APRIL BOARD ADDITION: ASSIGNED CONSULTANT TASK FORCE 4/30/99

**PLANNING:**

**DZN CMT:**

**UTIL CMT:**

**LGPA:** HARRIS SGN UTILITIES 6-3-99.

**LOC CMT:** BRIDGE

**EIS:** MM/DAJAJELLO/CONS TASK FORCE

**404:** CONSULTANT TASK FORCE; NW 23 EXPECTED

**TS:** NO SIGN & MKG PLANS REQ'D KRA 4/29/99 #

**ROW:**

**RR**

**PITS:**

**UST CMT:**

**BR CMT:** 2-09 BRIDGE REQUIRED

**R/W INFORMATION:**

**R/W STATUS:** PRECST NUMBER OF PARCELS TO BE ACQUIRED: 0 ACQUIRED BY: DOT ACQ MGR

**UNDER-REVIEW:** 0 RELEASED 0 OPT-PEND: 0 DEEDS 0 COND-PEND 0 COND-FILED 0

**RWCERT:**

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-011-1(55)  
County: Harris  
P.I. Number: 333155

Federal Route Number: US 27  
State Route Number: SR 1

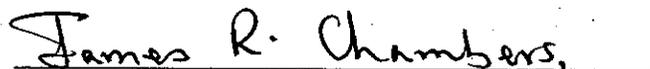
Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager

  
State Consultant Design Engineer *MBA*

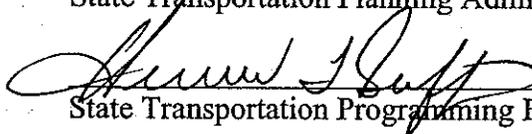
The concept as presented herein and submitted for approval is consistent with that which is included in the State Transportation Improvement Program (STIP).

DATE

10/19/01

DATE

State Transportation Planning Administrator



State Transportation Programming Engineer

DATE

State Environmental / Location Engineer

DATE

State Traffic Safety and Design Engineer

DATE

District Engineer

DATE

Project Review Engineer

DATE

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-011-1(55)

County: Harris

P.I. Number: 333155

Federal Route Number: US 27

State Route Number: SR 1

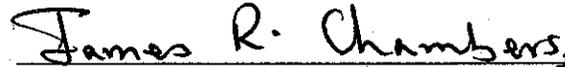
Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer

MBA

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

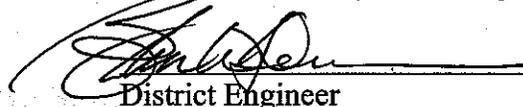
DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE 10/31/01



District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

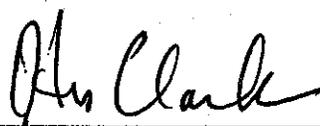
Project Number: BRST-011-1(55)  
County: Harris  
P.I. Number: 333155

Federal Route Number: US 27  
State Route Number: SR 1

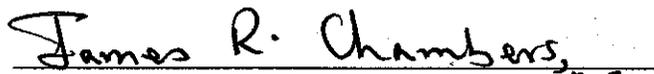
Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager

  
State Consultant Design Engineer

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

DATE 11-2-01

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

  
State Transportation Planning Administrator

State Transportation Programming Engineer

State Environmental / Location Engineer

State Traffic Safety and Design Engineer

District Engineer

Project Review Engineer

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-011-1(55)  
County: Harris  
P.I. Number: 333155

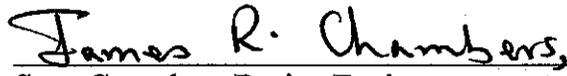
Federal Route Number: US 27  
State Route Number: SR 1

Recommendation for approval:

DATE 10-18-01

DATE 10-18-01

  
Project Manager

  
State Consultant Design Engineer *MSA*

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental / Location Engineer

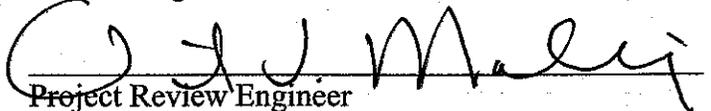
DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE 11/5/01

  
Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Design Engineer

Department of Transportation  
State of Georgia

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INTERDEPARTMENTAL CORRESPONDENCE

File: BRST - 011-1 (55) / Harris County  
P.I. No. 333155

Office: Traffic Safety & Design  
Atlanta, Georgia

Date: October 23, 2001

*PMA/bm*  
From: Phillip M. Allen, State Traffic Safety and Design Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the above referenced concept report for the replacement of the structurally deficient bridge on SR 1 over Mountain Creek. This project is located 1.6 miles north of SR 190.

The existing structure is 26 feet wide with a sufficiency rating of 21.4. The concept proposes to construct a new structure 44 feet wide for the two-lane roadway. The current ADT is 7300 vehicles and the design year ADT is projected to be 9800 vehicles. The proposed bridge width is in accordance with MOG 4265-10 for this type of roadway.

We believe this concept will improve safety and traffic operations within this area, therefore find this report satisfactory for approval.

PMA/bm

Attachment (signature page)

Cc: Harvey Keepler, State Environment/Location Engineer  
James Chambers, State Consultant Design Engineer  
Attention: Oits Clark

David Mulling, State Review Engineer, w/ attachment  
Marta Rosen, State Transportation Planning Administrator  
Paul Liles, State Bridge & Structural Design Engineer  
Chuck Hasty, TMC  
General Files  
Office Files

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-011-1(55)  
County: Harris  
P.I. Number: 333155

Federal Route Number: US 27  
State Route Number: SR 1

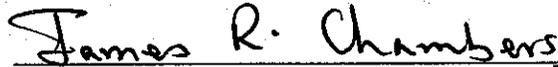
Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer

MSA

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE 11/19/01



State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

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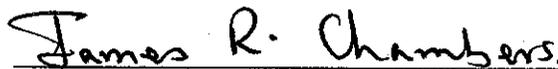
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Project Manager



State Consultant Design Engineer

MBA

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State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

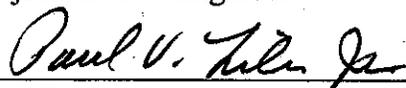
DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE 11/7/01



State Bridge & Structural Design Engineer