

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 0005963, Appling- Jeff Davis Counties **OFFICE** Preconstruction  
CSBRG-0005-00(963)  
CR 536/Zoar Road at Big Satilla Creek-  
Bridge Replacement **DATE** March 11, 2008

**FROM**  Genetha Rice-Singleton, Assistant Director of Preconstruction  
**TO**  SEE DISTRIBUTION

**SUBJECT APPROVED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

Attachment

**DISTRIBUTION:**

Brian Summers  
Glenn Bowman  
Ken Thompson  
Michael Henry  
Keith Golden  
Angela Alexander  
Paul Liles  
Glenn Durrence  
Dennis Odom  
BOARD MEMBER

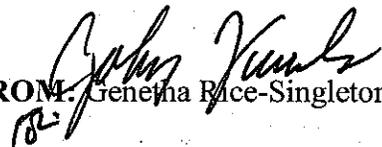
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** P.I. No. 0005963, Appling- Jeff Davis Counties  
CSBRG-0005-00(963)  
CR 536/Zoar Road at Big Satilla Creek-  
Bridge Replacement

**OFFICE:** Preconstruction

**DATE:** February 27, 2008

  
**FROM:** Genetha Rice-Singleton, Assistant Director of Preconstruction

**TO:** Gerald M. Ross, P.E., Chief Engineer

**SUBJECT: PROJECT CONCEPT REPORT**

This project is the replacement of a structurally deficient bridge on CR 536/Zoar Road at Big Satilla Creek, at the Appling-Jeff Davis County line. The existing bridge, constructed in 1964, is a 272' x 25.3' concrete structure with a sufficiency rating of 29. County Road 536 at this location is a rural two lane roadway with 12' lanes, variable width grass shoulders and a posted speed of 55 MPH. County Road 536 is classified as a rural major collector. The base year traffic (2008) along this section of CR 536 is 800 VPD. The design year (2028) volumes are projected to be 1200 VPD. The proposed speed design is 55 MPH.

The project proposes to relocate CR 536/Zoar Road north of its existing location, extending for a total of 0.30 miles. The proposed new structure will consist of a 400' x 32' concrete bridge and will be located just north of the existing bridge structure. The relocated CR 536/Zoar Road will consist of two 12' lanes with 6' rural shoulders. Traffic will be maintained on the existing bridge during construction.

Environmental concerns include requiring a COE 404 permit; Categorical Exclusion will be prepared; a Public hearing is not required; Time saving procedures is appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C)	\$ 2,393,000	\$ 2,393,000	L110	LR
Right-of-way & Utilities	Local	Local	Local	

P.I. No. 0005963, Appling- Jeff Davis Counties

Page 2

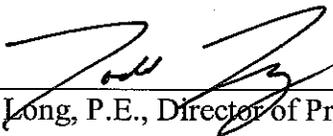
February 27, 2008

\* Jeff Davis County signed PFA for right-of-way and utilities 10-17-07/ Appling County signed PFA for right-of-way, utilities and detours on 7-25-03

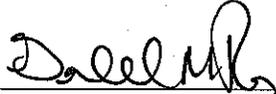
I recommend this project concept be approved.

GRS: JDQ  
Attachment

CONCUR

  
\_\_\_\_\_  
Todd I. Long, P.E., Director of Preconstruction

APPROVED

  
\_\_\_\_\_  
Gerald M. Ross, P.E., Chief Engineer



Looking EAST



LOOKING EAST  
RIGHT SIDE VIEW

**PRECONSTRUCTION STATUS REPORT**

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED. DATE	MGMT. LET DATE			
0005963	Appling	CR 536/ZOAR RD @ BIG SATILLA CREEK	Jul-08	Apr-11	Jul-09			
CSBRG-0005-00(963)	FIELD DIST: 5							
TIP #:	TWIN:	US:	Phase	Approved	Proposed	Cost	Fund	Status
MPO: Not Urban	EST DATE: 12/18/07		PE	2004	2004	593,999.30	Q11	AUTHORIZED
MODEL YR:	PROJ LENGTH: 0.30		ROW	LOCL	LOCL	50,000.00	LOC	PRECST
PROJ MGR: Odom, Dennis	TYPE WORK: Bridges		CST	LR	LR	2,393,000.00	L110	PRECST
PROG Replacement	LET RESP: DOT	Congressional Districts: 1						

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	7/3/04	9/13/07	82	TAS/1-23-06/turnkey ad #3/8-2-06/waiting for contract to be executed with Qk4/8-31-06/waiting for funding authorization to issue NTP/1-24-07/Notice to Proceed issued 1-23-07/8-1-07/Initial Concept mtg 8-30-07/9-6-07/PFA sent to Jeff Davis Co (CR313)/9-24-07/Env activities are ready to begin/11-7-07/concept report submitted 10-1-07. ADO/12-05-07/Concept submitted for approval.
		Concept Meeting	8/30/07	8/30/07	100	
		Concept Submittal and Review	12/18/07	1/17/08	100	
2/1/08	2/14/08	Receive Preconstruction Concept Approval			0	
2/14/08	2/14/08	Management Concept Approval Complete			0	
2/15/08	9/19/08	Environmental Approval			0	
2/18/08	3/21/08	Field Surveys/SDE			0	
3/24/08	5/22/09	Preliminary Plans			0	
7/28/08	10/24/08	Preliminary Bridge Design			0	
2/15/08	3/21/08	Underground Storage Tanks			0	
6/23/08	9/5/08	404 Permit Obtainment			0	
6/15/09	6/16/09	PFPR Inspection			0	
7/22/09	10/13/09	R/W Plans Preparation			0	
12/9/09	12/14/09	R/W Plans Final Approval			0	
7/22/09	7/24/09	L & D Report Development and Approval			0	
12/15/09	2/3/11	R/W Acquisition			0	
5/4/10	5/17/10	Stake R/W			0	
7/22/09	7/31/09	Soil Survey			0	
7/22/09	8/26/09	Bridge Foundation Investigation			0	
7/27/09	5/28/10	Final Design			0	
8/25/09	12/14/09	Final Bridge Plans Preparation			0	
6/21/10	6/22/10	FFPR Inspection			0	
7/6/10	7/19/10	FFPR Response			0	

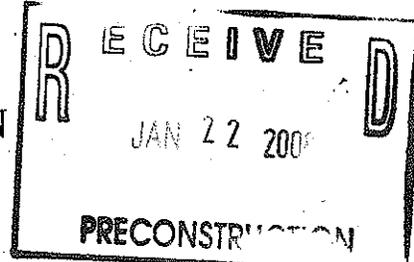
BIKE PROVISIONS INCLUDED?: N MEASUREMENT CONSULTANT: T UT EST:

PDD: MAY03 Board App: Assigned to District 5. 7/7/03.  
 Bridge: BRIDGE REQUIRED  
 Design: Concept sent for approval.  
 EIS: SMART  
 LGPA: PFA SGN JEFF DAVIS DO ROW & UTILITIES 10-17-07|APPLING SGN DO ROW|UTIL & DETOURS 7-25-03.  
 Programming: #1 1-06|#2 8-06  
 Traffic Op: BR REPL PROJ. S/M/SIG NOT REQD-AWAITING PFPR PLANS FOR REV  
 EMG: BRIDGE REPLACEMENT

**R/W INFORMATION:**

PREL PARCEL CT: TOTAL PARCEL CT: ACQUIRED BY: LOC ACQ MGR: Cravey, Mack (LOC)  
 UNDER-REVIEW CT: RELEASED OPT-PEND CT: DEEDS CT: COND-PEND CT: COND-FILED CT:  
 RW CERT DT: ACQUIRED CT: RELOCATION CT:

Rec'd  
12/18/07

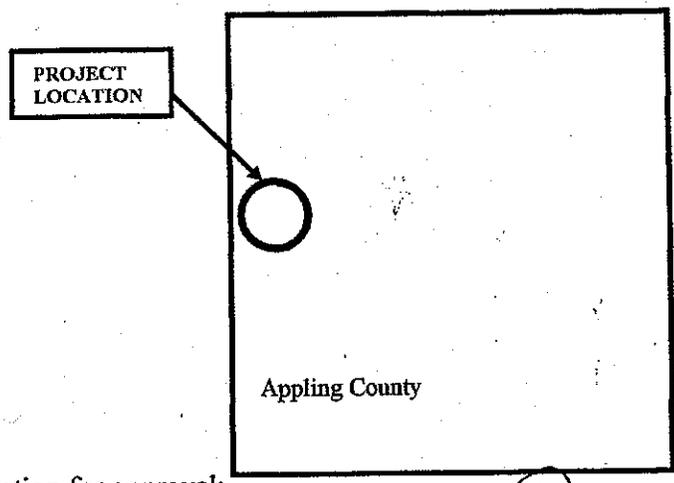


**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT**

Project Number: CSBRG-0005-00(963)  
County: Appling & Jeff Davis  
P. I. Number: 0005963  
County Route Number: 536

CR 536/Zoar Road over Big Satilla Creek Bridge Replacement



Recommendation for approval:

DATE 11-20-07

DATE 11-20-07

*Devin Olden*  
Project Manager

*Glenn Lawrence*  
District Engineer

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

DATE \_\_\_\_\_

DATE 1-11-08

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

State Transportation Planning Administrator  
*James T. Simpson*  
Financial Management Administrator

State Environmental/Location Engineer

State Traffic Safety and Design Engineer

Project Review Engineer

State Bridge and Structural Design Engineer



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

RECEIVED

JAN - 4 2008

PRECONSTRUCTION

INTERDEPARTMENTAL CORRESPONDENCE

**FILE:** CSBRG-0005-00(963) Appling & Jeff Davis      **OFFICE:** Engineering Services  
P.I. No. 0005963  
CR 536/Zoar Road over Big Satilla Creek      **DATE:** January 3, 2008

**FROM:** *BKS*  
Brian K. Summers, P.E., State Project Review Engineer

**TO:** Genetha Rice-Singleton, Assistant Director of Preconstruction

**SUBJECT:** Concept Report

We have reviewed the Concept Report received December 18, 2007 from Keith Stewart, and have the following comments. The cost estimate does not include any E&C.

The costs for this project are:

Construction	\$2,175,200
E & C	217,520
Reimbursable Utilities	0
Right of Way	0

BKS

\$ 2,392,720

cc: Glenn Durrence, Attn: Keith Stewart

*ADL*  
1/22/08

## SCORING RESULTS AS PER MOG 2440-2

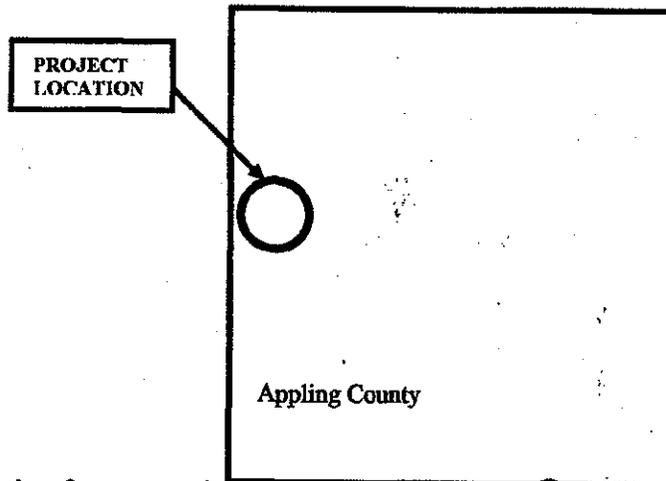
<b>Project Number:</b> CSBRG-0005-00(963)		<b>County:</b> Appling		<b>PI No.:</b> 0005963	
<b>Report Date:</b> 12/18/07		<b>Concept By:</b> DOT Office: District 5			
<input checked="" type="checkbox"/> Concept Stage		<b>Consultant:</b>			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
<b>Presentation</b>	90				
<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**

**PROJECT CONCEPT REPORT**

Project Number: CSBRG-0005-00(963)  
County: Appling & Jeff Davis  
P. I. Number: 0005963  
County Route Number: 536

CR 536/Zoar Road over Big Satilla Creek Bridge Replacement



Recommendation for approval:

DATE 11-20-07

DATE 11-20-07

Project Manager

District Engineer

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

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_

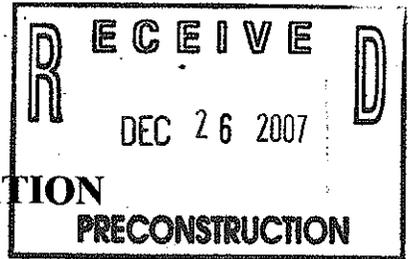
\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE 11/3/08

Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge and Structural Design Engineer

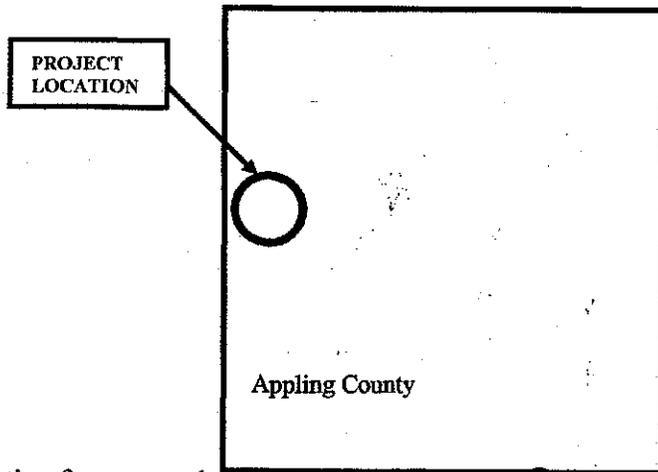


DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: CSBRG-0005-00(963)  
County: Appling & Jeff Davis  
P. I. Number: 0005963  
County Route Number: 536

CR 536/Zoar Road over Big Satilla Creek Bridge Replacement



Recommendation for approval:

DATE 11-20-07

*Dennis Oldham*

Project Manager

DATE 11-20-07

*Glenn Lawrence*

District Engineer

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE 12-19-07

*Theresa Gold*  
State Traffic Safety and Design Engineer

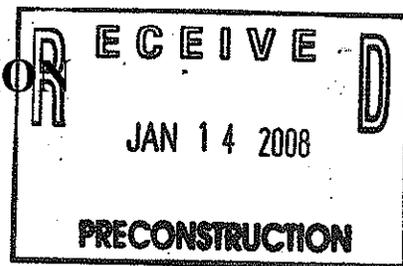
DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

**FILE:** P.I. No. 0005963

**OFFICE:** Environment/Location

**DATE:** January 10, 2008

**FROM:**  Glenn Bowman, P.E., State Environmental/Location Engineer

**TO:** Genetha-Rice Singleton, State Transportation Planning Administrator

**SUBJECT:** PROJECT CONCEPT REPORT  
CSBRG-0005-00(963) / Appling & Jeff Davis Counties  
CR 536 / Zoar Rd. over Big Satilla Creek Bridge Replacement

The above subject Concept Report has been reviewed and appears satisfactory subject to the following comments:

1. This bridge was constructed in 1964 and is not listed on the GHBS.
2. It may require winter survey for Eastern Indigo Snake if burrows are found during field surveys.
3. Project is currently scheduled for July '08 Right of Way authorization. Not much Environmental work appears to have been completed; and therefore, July '08 appears unreasonable. However, twelve (12) months for Environmental work noted on Page 6 is satisfactory.

If you have any questions, please contact Glenn Bowman at (404) 699-4401.

GB/lc

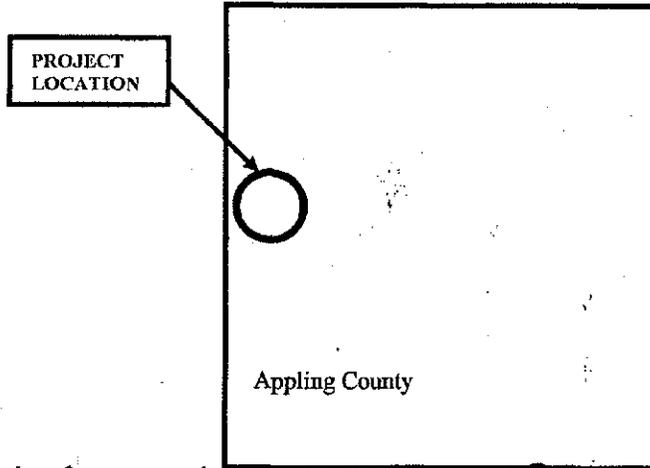
cc: Brian Summers  
Jamie Simpson  
Angela Alexander  
Keith Golden  
Paul Liles  
Glenn Durrence

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT**

Project Number: CSBRG-0005-00(963)  
County: Appling & Jeff Davis  
P. I. Number: 0005963  
County Route Number: 536

CR 536/Zoar Road over Big Satilla Creek Bridge Replacement



Recommendation for approval:

DATE 11-20-07

DATE 11-20-07

*Devin Olden*

Project Manager

*Glenn Lawrence*

District Engineer

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Financial Management Administrator

DATE 11/9/08

*Al Bar*  
State Environmental/Location Engineer

DATE \_\_\_\_\_

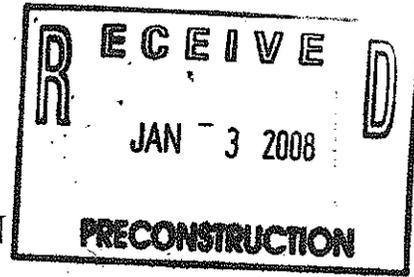
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge and Structural Design Engineer

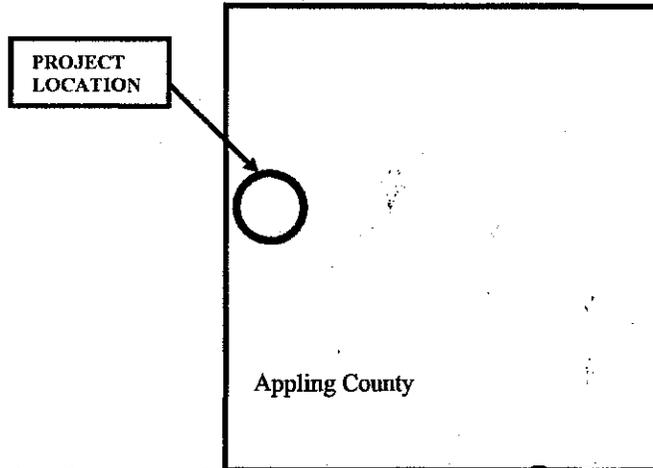


DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: CSBRG-0005-00(963)  
County: Appling & Jeff Davis  
P. I. Number: 0005963  
County Route Number: 536

CR 536/Zoar Road over Big Satilla Creek Bridge Replacement



Recommendation for approval:

DATE 11-20-07

*Devin Olson*  
Project Manager

DATE 11-20-07

*Glenn Lawrence*  
District Engineer

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

DATE 1-3-08

*Angela J. Alvarado*  
State Transportation Planning Administrator

DATE \_\_\_\_\_

State Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

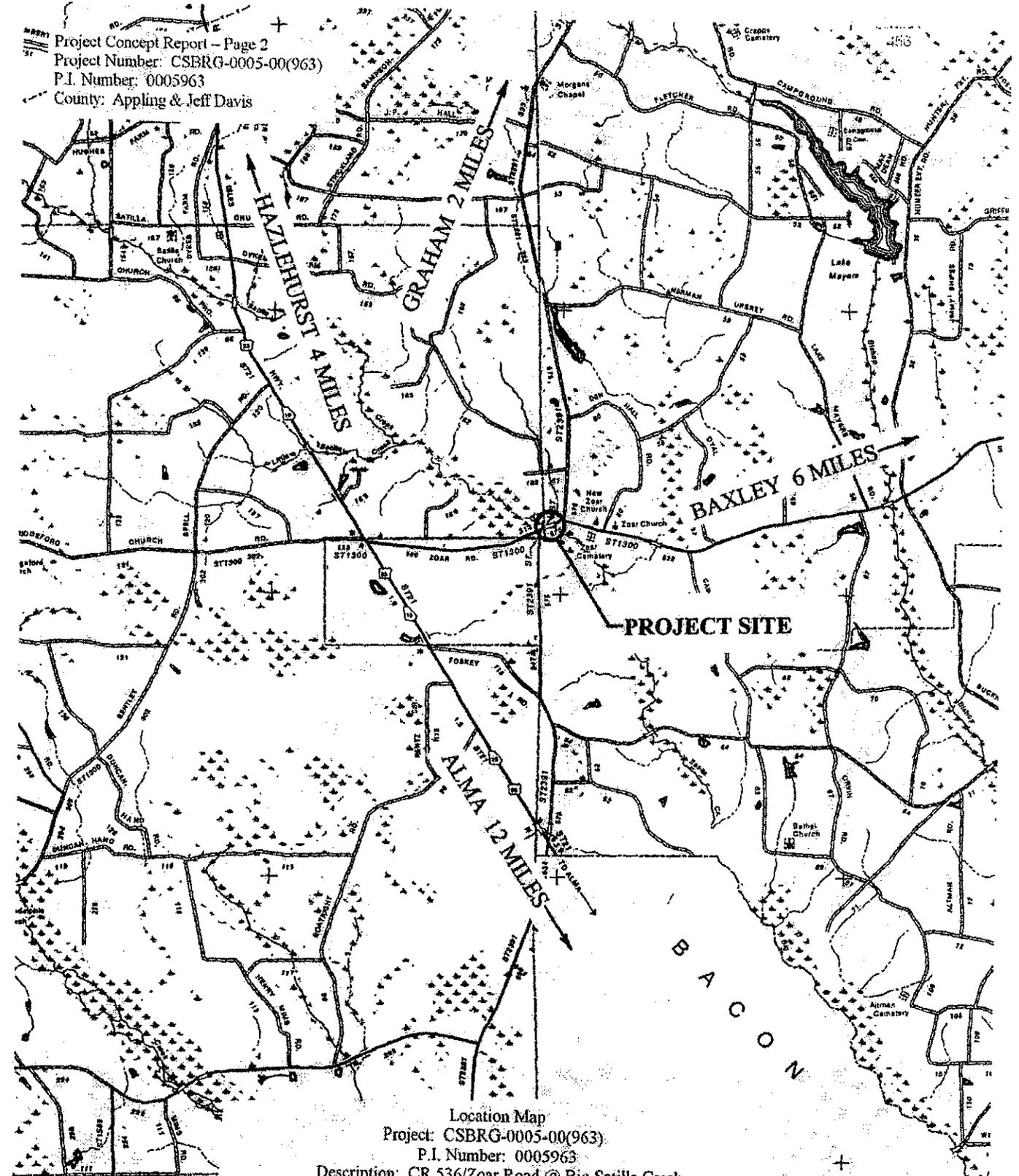
DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge and Structural Design Engineer

Project Concept Report - Page 2  
Project Number: CSBRG-0005-00(963)  
P.I. Number: 0005963  
County: Appling & Jeff Davis



Location Map  
Project: CSBRG-0005-00(963)  
P.I. Number: 0005963  
Description: CR 536/Zoar Road @ Big Satilla Creek  
Appling & Jeff Davis County

Project Concept Report - Page 3  
Project Number: CSBRG-0005-00(963)  
P. I. Number: 0005963  
County: Appling & Jeff Davis

**Need and purpose:**

This project is needed to replace a bridge with substandard load capacity, and deck geometry. The existing bridge was built in 1964. It is located on CR536/Zoar Road over Big Satilla Creek, has a sufficiency rating of 29.66. Bridges with a rating under 50 do not meet current standards under TOPPS directive 2405-1.

Project Description

The approximate length of the project is 0.30 miles, it is located 6 miles West from the City Limits of Baxley, Georgia, at Big Satilla Creek. The logic for establishing termini is due to replacing the bridge, and reworking the shoulders and slopes. The concept proposes to satisfy the Need and Purpose by replacing a substandard load capacity and deck geometry bridge, while at the same time placing guardrail, and upgrading shoulders to accommodate guardrail.

Bridge Characteristics

The existing bridge was constructed in 1964. The bridge sufficiency rating is currently 29.66. The Office of Bridge Maintenance has determined that any bridge with a bridge sufficiency rating below 50 should be replaced. This project will replace the existing two-lane bridge with a structurally adequate two-lane bridge.

Route Characteristics

County Route (CR) 536/Zoar Rd. is functionally classified as a minor rural collector. CR 536/Zoar Rd. has two-way traffic and is a two-lane facility. Sidewalks are not planned for the route. The posted speed limit is 55 mph.

Traffic Counts

The average annual daily traffic (AADT) on this section of roadway was 700 in 2002. 10 percent of the traffic volume is truck traffic. The projected AADT is 800 for the year 2008 and 1200 for the design year 2028.

Conclusion

Replacing this bridge will bring it up to load standards and in doing so will improve it's safety. In addition, per DOT policy, the bridge will be replaced due to a sufficiency rating below 50. The current sufficiency rating is 29.66. Current plans for CR 536/Zoar Rd. include constructing a new parallel two-lane bridge. The new bridge will replace the existing two-lane bridge, which will be torn down. This ultimate design will improve the operation and safety of the facility.

**Description of the proposed project:** This project consists of the replacement of the 272 foot bridge along CR 536/Zoar Rd. over Big Satilla Creek and roadway construction on each approach in order to tie the new bridge into the existing roadway.

This project would construct a new parallel structure on the north side of the existing bridge. This bridge will be a minimum of 32' wide to include two 12-foot through lanes with 4-foot outside shoulders along with the appropriate barriers.

The project is located near mile marker 271.

Project Concept Report - Page 4  
Project Number: CSBRG-0005-00(963)  
P. I. Number: 0005963  
County: Appling & Jeff Davis

Is this project located in a Non-attainment area? Yes \_\_\_\_\_ No X

PDP Classification: Major \_\_\_\_\_ Minor X

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

Functional Classification: Rural Major Collector

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

**Traffic (AADT):**

Base Year: (2002) 700 Design Year: (2028) 1200

**Existing Design Features:**

- Typical Section: Two-lane roadway with 12' lanes, 6' shoulders, with v ditch left and right. Existing bridge has a total deck width of approximately 25.30'.
- Posted speed: 55 mph
- Maximum degree of curvature: 7°00'
- Maximum grade: 0.87% Mainline 4.0% Driveways
- Width of right of way: 80 ft
- Major structures: 273' x 25.30' bridge with a sufficiency rating of 29.66.
- Major interchanges or intersections along the project: CR 575/ Graham-Zoar Rd.
- Existing length of roadway segment: This project is a bridge replacement, the bridge length is 273 feet.
- Mile Point Reference 2.71

**Proposed Design Features:**

- Proposed typical section(s): Two 12' lanes, ~~6'~~<sup>6'</sup> shoulders (~~6'~~<sup>2'</sup> paved) left and right, with and 2' wide ditches.
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum Grade Mainline: 2.0% Maximum grade allowable: 6.0%
- Proposed Maximum grade Side Street: 6.0% Maximum grade allowable: 6.0%

*Handwritten signature and date: [Signature] 2/14/08*

- Proposed Minimum radius for curve: 960 ft
- Proposed Maximum super-elevation rate for curve: 8 %
- Right of way:
  - Width: varies from 80' to 200' /
  - Easements: Temporary ( X ), Permanent ( ), Utility ( ), Other ( ).
  - Type of access control: Full ( ), Partial ( ), By Permit ( X ), Other ( ).
  - Number of parcels 5 estimated      Number of displacements:
    - Business: 0
    - Residences: 0
    - Mobile homes: 0
    - Other: 0
- Structures:
  - Bridge: The proposed bridge will be 400' x <sup>32'</sup>~~35.25'~~ *Joel 2/14/08*
  - Retaining walls: None anticipated at this time
- Major intersections and interchanges: None
- Traffic control during construction: Traffic may be detoured offsite for portions of the roadway construction. Traffic will be maintained on sideroads during construction.
- Design exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT	( )	( )	( X )
ROADWAY LENGTH	( )	( )	( X )
SHOULDER WIDTH	( )	( )	( X )
VERTICAL GRADES	( )	( )	( X )
CROSS SLOPES	( )	( )	( X )
STOPPING SIGHT DISTANCE	( )	( )	( X )
SUPERELEVATION RATES	( )	( )	( X )
HORIZONTAL CLEARANCE	( )	( )	( X )
SPEED DESIGN	( )	( )	( X )
VERTICAL CLEARANCE	( )	( )	( X )
BRIDGE WIDTH	( )	( )	( X )
BRIDGE STRUCTURAL CAPACITY	( )	( )	( X )

- Design variances (*List design variances expected*): not expected
- Environmental concerns: Possible Section 404 permit. No hazardous waste sites, history, or archaeological sites were noted at the project site.
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ( X ), No ( )
  - Categorical exclusion ( X )
  - Environmental Assessment/Finding of No Significant Impact ( FONSI ) ( )
  - Environmental Impact Statement ( EIS ) ( )
- Utility Improvements: none expected

Project Concept Report - Page 6  
Project Number: CSBRG-0005-00(963)  
P. I. Number: 0005963  
County: Appling & Jeff Davis

**Project Responsibilities**

- Design – GDOT/Qk4
- Right of Way Acquisition – Appling/Jeff Davis
- Relocation of Utilities – Appling/Jeff Davis
- Letting of Contract - GDOT
- Supervision of construction - GDOT
- Providing material pits - Contractor
- Providing detours (as necessary) – Appling/Jeff Davis

**Coordination**

- A concept meeting was held on August 31, 2007. Minutes are attached
- No P. A. R. meetings were held
- No public involvement
- Local Government involvement: LGPA Signed on July 25, 2003.
- Other projects in the area: N/A
- No other coordination to date.
- *VE STUDY: NOT REQ'D. Joel 2/1/08*

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: 12 Months.
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right of way plans: 6 Months.
- Time to complete the Section 404 Permit: 9 Months
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 12 Months.
- List other major items that will affect the project schedule: None

**Other alternates considered:**

1. No Build Alternate. This option does not address the intersection safety needs at CR 575 or safety of bridge facility.
2. Offsite Detour with only Bridge Replacement. The use of an offsite detour while replacing the existing bridge in a tangent section would not improve the safety concerns of the deficient alignment west of the bridge or intersection sight distance at CR 575. The detour would be excessively long, approximately 12 miles in length.
3. Tangent Bridge Replacement with 40 mph speed design. Any tangent section bridge north or south on the existing bridge would not meet the desired speed design.

**Attachments:**

1. Cost Estimates
2. Typical sections
3. Capacity analysis
4. Bridge inventory
5. Minutes of Kick Off meeting
6. Local Government Project Agreement
7. Location and Design Notice
8. Minutes of Concept Team Meeting

**Estimate Report for file "CSBRG-0005-00(963)"**

<b>Section Roadway Items</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	40000.00	TRAFFIC CONTROL -	40000.00
210-0100	1	LS	590000.00	GRADING COMPLETE -	590000.00
310-1101	1100	TN	17.46	GR AGGR BASE CRS, INCL MATL	19206.00
402-3110	300	TN	61.39	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	18417.00
402-3112	400	TN	69.50	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	27800.00
402-3121	650	TN	65.32	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	42458.00
413-1000	500	GL	1.98	BITUM TACK COAT	990.00
433-1100	200	SY	165.92	REINF CONC APPROACH SLAB, INCL CURB	33184.00
456-2015	1	GLM	770.26	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (SKIP)	770.26
634-1200	30	EA	108.46	RIGHT OF WAY MARKERS	3253.80
641-1100	400	LF	54.27	GUARDRAIL, TP T	21708.00
641-1200	2700	LF	18.34	GUARDRAIL, TP W	49518.00
641-5001	2	EA	638.12	GUARDRAIL ANCHORAGE, TP 1	1276.24
641-5012	2	EA	1819.11	GUARDRAIL ANCHORAGE, TP 12	3638.22
<b>Section Sub Total:</b>					<b>\$852,219.52</b>

<b>Section Permanent Erosion Control</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	46	TN	177.56	MULCH	8167.76
603-2181	200	SY	48.43	STN DUMPED RIP RAP, TP 3, 18 IN	9686.00
603-7000	200	SY	5.04	PLASTIC FILTER FABRIC	1008.00
700-6910	3	AC	917.26	PERMANENT GRASSING	2751.78
700-7000	5	TN	59.55	AGRICULTURAL LIME	297.75
700-7010	12	GL	19.21	LIQUID LIME	230.52
700-8000	2	TN	350.05	FERTILIZER MIXED GRADE	700.10
700-8100	250	LB	2.08	FERTILIZER NITROGEN CONTENT	520.00
<b>Section Sub Total:</b>					<b>\$23,361.91</b>

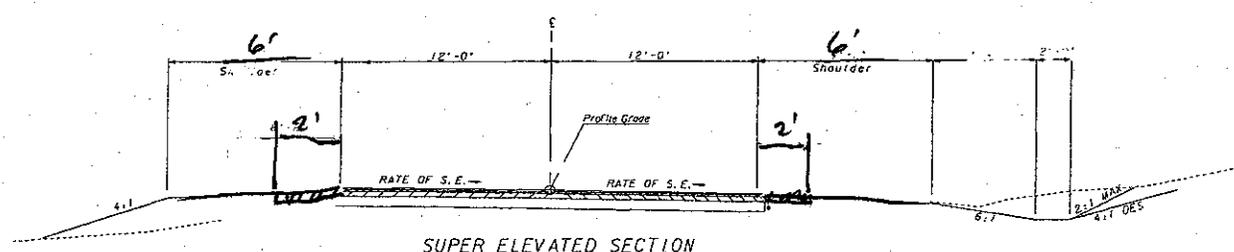
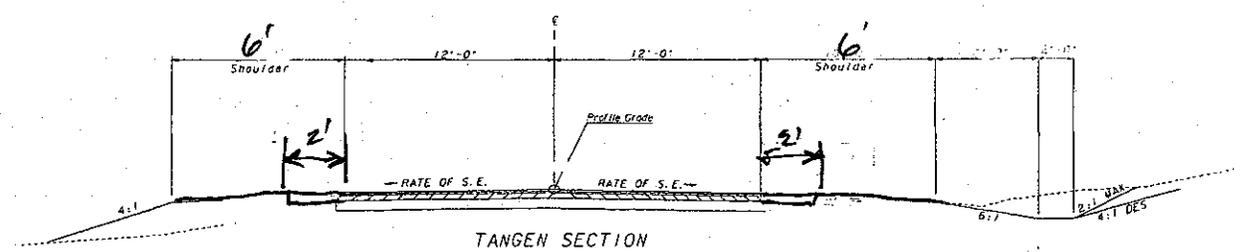
<b>Section Temporary Erosion Control</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	2	AC	574.21	TEMPORARY GRASSING	1148.42
171-0030	4400	LF	4.03	TEMPORARY SILT FENCE, TYPE C	17732.00
<b>Section Sub Total:</b>					<b>\$18,880.42</b>

<b>Section Erosion Control Maintenance</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
165-0030	2200	LF	1.78	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	3916.00
<b>Section Sub Total:</b>					<b>\$3,916.00</b>

<b>Section Signing &amp; Marking</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	35	SF	14.79	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	517.65
636-2070	88	LF	8.63	GALV STEEL POSTS, TP 7	759.44
653-1501	5000	LF	0.59	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	2950.00
653-1502	5000	LF	0.59	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	2950.00
654-1001	40	EA	3.63	RAISED PVMT MARKERS TP 1	145.20
<b>Section Sub Total:</b>					<b>\$7,322.29</b>

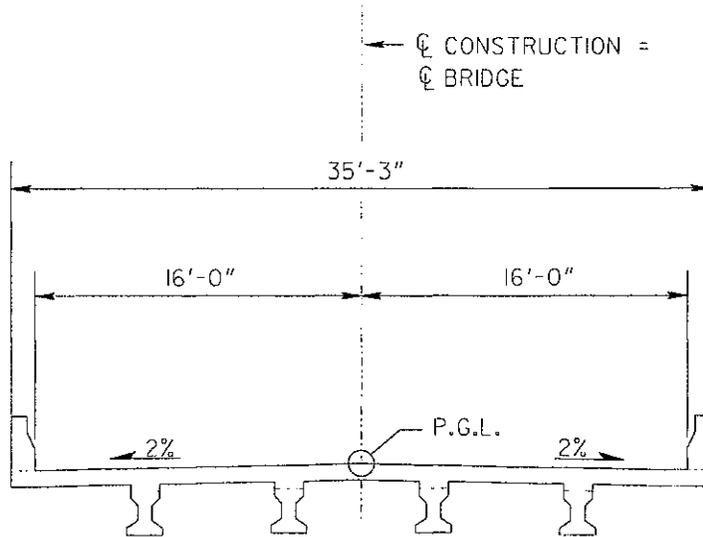
<b>Section CSBRG-0005-00(963), Big Satilla Creek Bridge</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
540-1101	1	LS	173000.00	REMOVAL OF EXISTING BR, STA NO - 14+00	173000.00
543-1100	1	Lump Sum	1096500.00	CONSTRUCTION OF BRIDGE - COMPLETE - BR #1	1096500.00
<b>Section Sub Total:</b>					<b>\$1,269,500.00</b>

**Total Estimated Cost: \$2,175,200.14**



REVISION DATES

STATE OF GEORGIA  
DEPARTMENT OF TRANSPORTATION  
OFFICE: CONSULTANT DESIGN  
**TYPICAL SECTIONS**



BRIDGE TYPICAL SECTION

NOT TO SCALE

STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE OF URBAN DESIGN  
 CR 536 AT BIG SATILLA CREEK  
 BRIDGE CROSS SECTION  
 CSBRG-0005-00(963) 07/1/07

# Department of Transportation State of Georgia

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## INTERDEPARTMENT CORRESPONDENCE

**FILE** CSBRG-0005-00(963), Appling County      **OFFICE** Environment/Location  
P.I. # 0005963  
**DATE** July 22, 2004

**FROM** Harvey D. Keepler, State Environment/Location Engineer

**TO** Thomas B. Howell, P.E., District Engineer  
**Attn.** Dennis Odom

**SUBJECT** Traffic Link Volume Data for C.R.536/Zoar Road over Big Satilla Creek.

We are furnishing estimated Traffic Link Volume for the above project as follows:

Existing 2002 ADT = 700  
2008 ADT = 800  
2028 ADT = 1,200  
K = 9%  
D = 60%  
T = 8%  
24 HR. T = 10%  
S.U. = 5%  
COMB. = 5%

If you have any questions concerning this information please contact Abby Ebodaghe at (404) 699-4454.

HDK/AFE



## Bridge Inventory Data Listing

Georgia Department of Transportation

<b>Structure ID:</b> 001-0035-0	<b>Appling</b>	<b>SUFF. RATING:</b> 29.66
<b>Programming Data</b>	<b>Measurements</b>	<b>Ratings</b>
201 Project No.: SF-1315-A (3)	* 29 ADT: 000400 Year: 2002	65 Inventory Rating Method: 2
202 Plans Available: 0	109 % Trucks: 10	63 Operating Rating Method: 2
249 Prop. Proj. No. CSBRG-0005-00 (963)	* 28 Lanes On: 02 Under: 00	66 Inventory Type: 2 Rating: 34
250 Approval Status: 0 0 0 0	210 No. Tracks On: 00 Under: 00	64 Operating Type: 2 Rating: 50
251 P.I. No.: 0005963	* 48 Max. Span Length: 0015	231 Calculated Loads
252 Contract Date: 02/01/2006	* 49 Structure Length: 272	H-Modified: 20 0
260 Seismic No.: 00000	51 Br. Rwdy. Width: 24.00	HS-Modified: 25 0
75 Type Work: 31 1	52 Deck Width: 25.30	Type 3: 28 0
94 Bridge Imp. Cost: \$ 279	* 47 Tot. Horiz. Cl: 24.00	Type 3s2: 40 0
95 Roadway Imp. Cost: \$ 181	50 Curb / Sidewalk Width: 0.00 / 0.00	Timber: 36 0
96 Total Imp Cost: \$ 551	32 Approach Rdwy. Width: 019	Piggyback: 00 0
76 Imp. Length: 001590	* 229 Shoulder Width:	261 H Inventory Rating: 22
97 Imp. Year: 0000	Rear Lt: 6.00 Type: 8 Rt: 6.00	262 H Operating Rating: 32
114 Future ADT: 000600 Year: 2022	Fwd Lt: 6.00 Type: 8 Rt: 6.00	67 Structural Evaluation: 5
	Pavement Width:	58 Deck Condition: 7
	Rear: 19.00 Type: 2	59 Superstructure Condition: 6
	Fwd: 19.00 Type: 2	* 227 Collision Damage: 0
<b>Hydraulic Data</b>	Intersection Rear: 1 Fwd: 1	60A Substructure Condition: 6
215 Waterway Data	36 Safety Features Br. Rail: 0	60B Scour Condition: 7
Highwater Elev.: 0000.0 Year: 1900	Transition: 0	60C Underwater Condition: N
Flood Elevation: 0000.0 Freq.: 00	App. G. Rail: 0	71 Waterway Adequacy: 8
Avg. Streambed Elev.: 0000.0	App. Rail End: 0	61 Channel Protection Cond.: 6
Drainage Area: 00000	53 Minimum Cl. Over: 99 ' 99 " Under: N 00 ' 00 "	68 Deck Geometry: 5
Area of Opening: 000000	* 228 Minimum Vertical Cl	69 UnderClr. Horz/Vert: N
113 Scour Critical: U	Act. Odm Dir: 99 ' 99 "	72 Appr. Alignment: 8
216 Water Depth: 2.9 Br. Height: 8.2	Oppo. Dir: 99 ' 99 "	62 Culvert: N
222 Slope Protection: 1	Posted Odm. Dir: 00 ' 00 "	<b>Posting Data</b>
221 Spur Dikes Rear: 0 Fwd: 0	Oppo. Dir: 00 ' 00 "	70 Bridge Posting Required: 5
219 Fender System: 0	55 Lateral Undercl. Rt: N 99.90	41 Struct Open, Posted, CL: D
220 Dolphin: 0	56 Lateral Undercl. Lt: 0.00	* 103 Temporary Structure: T
223 Culvert Cover: 000	* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0	232 Posted Loads
Type: 0	39 Nav Vert Cl: 000 Horiz: 0000	H-Modified: 00
No. Barrels: 0	116 Nav Vert Cl Closed: 000	HS-Modified: 00
* Width: 0.00 Height: 0.00	245 Deck Thickness Main: 6.00	Type 3: 00
* Length: 0 Apron: 0	Deck Thick. Approach: 0.00	Type 3s2: 00
265 U/W Insp. Area: 0 Diver: ZZZ	246 Overlay Thickness: 0.00	Timber: 00
Location I.D. No.: 001-01300F-001.40E	212 Year Last Painted: Sup: 1964 Sub: 0000	Piggyback: 00
		253 Notification Date: 02/01/1901
		258 Fed Notify Date: 02/01/1901

## MEETING MINUTES

**Project:** CSBRG-0005-00(963) Appling County  
**Purpose:** Kick-off meeting  
**Place:** District 5 office  
**Meeting Date:** 02/13/07  
**Prepared By:** Jamie Altman  
**In Attendance:** Dennis Odom, GDOT District Design Engineer  
Keith Stewart, GDOT District Design Squad Leader  
Rebecca Thigpen, GDOT Design Engineer II  
Gary Johnson, GDOT CADD III Designer  
Andy Ballerstedt, Qk4 Project Manager  
Jamie Altman, Qk4 Project Engineer

### Appling County

Jamie and Andy visited the site that morning to examine alternatives in the field. From field observations and speaking with a property owner, the best solution seemed to be to flatten a sharp horizontal curve to the east and rebuild the bridge on the north side of the existing bridge.

The district would also like Qk4 to also examine replacing the existing bridge in the same location. Cost estimates and the feasibility of a detour will be two of the primary issues when comparing these two alternatives. Area 1 Engineer, Scott Taylor should be contacted to discuss the options of a detour. The bridge has been closed before for maintenance and a detour used. Scott should be able to let us know the public reaction or if there were any complaints to the road being closed.

The current sufficiency rating for the bridge is 29.66.

GDOT recommends that if the roadway is realigned, the speed design should be 55mph.

This project has a May, 2009 management let date and a May, 2008 management right-of-way date.

### General notes

GDOT recommends that no superelevation transition occur on the bridge deck itself. Rebecca provided Qk4 with copies of department files on the projects.



# Department of Transportation

State of Georgia  
#2 Capitol Square, S.W.  
Atlanta, Georgia 30334-1002

J. TOM COLEMAN, JR.  
COMMISSIONER  
(404) 656-5206

FRANK L. DANCHETZ  
CHIEF ENGINEER  
(404) 656-5277

HAROLD E. LINNENKOHL  
DEPUTY COMMISSIONER  
(404) 656-5212

EARL L. MAHFUZ  
TREASURER  
(404) 656-5224

July 21, 2003

## LOCAL GOVERNMENT PROJECT AGREEMENT

*In consideration of the proposed improvements, APPLING County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project CSBRG-0005-00(963) Appling Co., PI # 0005963:*

**BRIDGES CR 536/ZOAR RD OVER BIG SATILLA CREEK**

- Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.
- Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.
- Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.
- Furnish detours, local borrow and waste pits as needed.
- We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.

This 25th day of July, 2003

APPROVED H. King Carter, Commission Chairman  
City/County Official

*Copy to  
S. [unclear]  
8/6/03  
AS*

**NOTICE OF LOCATION AND DESIGN APPROVAL**

**PROJECT NO. CSBRG-0005-00(963), APPLING COUNTY  
P. I. NUMBER 0005963**

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 this project.

Date of Location Approval: MARCH 11, 2008

Date of Environmental Approval: \_\_\_\_\_

The project consists of improvements of CR536/Zoar Rd. over Big Satilla Creek, located in Appling County. The project is for the replacement of a bridge with substandard load capacity, and deck geometry. The bridge has a high priority for replacement with a sufficiency rating of 29.66.

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:

Alvin S. Taylor  
GDOT  
Scott.Taylor@dot.state.ga.us  
740 Oakdale Circle  
Baxley GA 31513  
Phone: 912-366-1090

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:

Brad Saxon  
GDOT  
Brad.Saxon@dot.state.ga.us  
P.O. Box 610  
Jesup GA 31598  
Phone: 912-427-5715

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.

# MEETING MINUTES

**Project:** CSBRG-0005-00(963) Appling County  
**Purpose:** Concept Team Meeting  
**Place:** Georgia DOT District 5, Jessup Office  
**Meeting Date:** 08/30/07  
**Prepared By:** Benjamin Pickering  
**In Attendance:** Rebecca Thigpen, GDOT District 5 Road Design  
Keith Stewart, GDOT District 5 Road Design  
Teresa Scott, GDOT District 5  
Masood Shabazaz, Heath & Linebeck  
Billy Shores, Satilla EMC  
David R. DeLoach, GDOT District 5, Area 1  
Andy Ballerstedt, Qk4 Project Manager  
Benjamin C. Pickering, Qk4 Project Engineer  
Larry Griffin, Okefenoke Rural EMC  
Paul O. Williams District 5 Utilities  
Larry C. Barnes, GDOT District 5, Area 2  
Mack Cravey, GDOT District 5  
Cynthia Phillips, GDOT District 5

## Appling County

Andy presented the concept display showing a 55 mph speed design with the proposed bridge on a 3270' radius curve north of the existing bridge. The approach curve east of the bridge would be improved to a 55 mph speed design with a 960' radius. Improving the approach curve to the east of the bridge will increase the safety concerns for the project.

Rebecca went over the concept report requesting the Right of Way width be varying 80' to 200'. Since the county has closed the bridge of maintenance and detoured traffic in the past, it was requested a detour should be considered for this project. Even though the bridge is on new location, a detour may be necessary during construction of the approach from the east.

Paul Williams believes the utilities are located on the south side of bridge and may not be in direct conflict. However, if located to the north, they would be in direct conflict and would require relocation. Andy noted that the survey shows the utility poles on the north side. Bellsouth has a bored line south of the existing bridge.

Rebecca noted that the project responsibilities of utility relocation and right-of-way should be changed to the county.

Teresa Scott stated this project has a May 2009 management let date and a May 2008 management right-of-way date. It was noted that the environmental document will dictate the schedule and should be updated accordingly. A May 2009 is probably not feasible and will probably need to be moved back.