

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 231150-, Jenkins County **OFFICE** Preconstruction
BRSLB-1320-00(003)
CR191 at Ogeechee River Overflow -
Bridge Replacement **DATE** April 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
Tony Collins
George Brewer
BOARD MEMBER

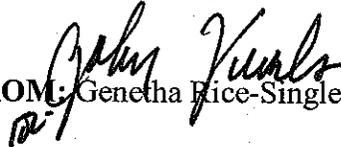
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 231150-, Jenkins County
BRSLB-1320-00(003)
CR 191 at Ogeechee River Overflow -
Bridge Replacement

OFFICE: Preconstruction

DATE: April 3, 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 191 over Ogeechee River Overflow, 11 miles west of Millen, Georgia. The existing bridge, constructed in 1955, is a 225' x 23' concrete structure with a sufficiency rating of 44. County Road 191 at this location is a rural two lane roadway with 10' lanes, and variable width grass shoulders. County Road 191 is classified as a rural major collector. The base year traffic (2009) along this section of CR 191 is 252 VPD. The design year (2029) volumes are projected to be 415 VPD. The posted and proposed speed design is 55 MPH.

The project proposes to construct a new 400' x 30' concrete bridge over Ogeechee River Overflow at the existing bridge site. The approaches will consist of two, 10' lanes with 5' rural shoulders. This project MUST be coordinated with project BRSLB-1320-00(4), Jenkins County, bridge replacement on CR 191 over Ogeechee River. The existing bridge will be closed to traffic during construction and a special provision will be provided regarding one bridge being closed at a time on CR 191. Jenkins County will be responsible for the signing and maintenance or detour routes.

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)	\$ 2,021,000	\$ 3,759,000	L110	2011
Right-of-way & Utilities	Local	Local	Local	Local

P.I. No. 231150-, Jenkins County

Page 2

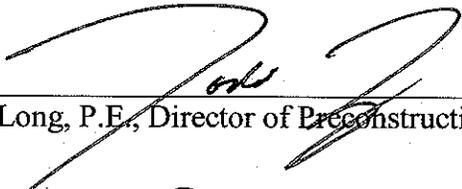
April 3, 2008

* Jenkins County signed PFA for right-of-way and utilities 10-3-06

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

PRECONSTRUCTION STATUS REPORT

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED DATE	MGMT. LET DATE
231150-	Jenkins	CR 191 @ OGEECHEE RIVER OFLW NORTH OF EMANUEL COUNTY LINE	Jan-09	Sep-11	Jan-10

BRSLB-1320-00(003) FIELD DIST: 2
TIP #: TWIN: 231152- US:
MPO: Not Urban EST DATE: 5/8/07
MODEL YR: PROJ MGR: Grimes, Foster PROJ LENGTH: 0.30
PROG Replacement TYPE WORK: Bridges
TYPE: CONCEPT: BR REPL LET RESP: DOT Congressional Districts: 12

Phase	Approved	Proposed	Cost	Fund	Status
PE	2006	2006	631,779.63	Q11	AUTHORIZED
ROW	LOCL	LOCL	64,000.00	LOC	PRECST
CST	2011	2011	3,759,000.00	L110	PRECST

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	1/31/07	2/20/08	100	7/6/05 Suff rating=18 8/11/05 Turn-key consultant 1/13/06 SOQ's due 1/5/07 Notice to Proceed given to KCI Technologies, Inc. 1/5/07 NTP issued to consultant
		Concept Meeting	12/19/07	12/19/07	100	
3/28/08	5/1/08	Concept Submittal and Review			0	
5/2/08	5/15/08	Receive Preconstruction Concept Approval			0	
5/15/08	5/15/08	Management Concept Approval Complete			0	
9/11/08	9/10/08	Environmental Approval	3/26/07		38	
3/28/08	3/28/08	Field Surveys/SDE	3/26/07		95	
3/31/08	6/24/09	Preliminary Plans			0	
8/4/08	11/28/08	Preliminary Bridge Design			0	
5/16/08	6/20/08	Underground Storage Tanks			0	
7/24/08	10/8/08	404 Permit Obtainment			0	
7/16/09	7/17/09	PFPR Inspection			0	
8/24/09	11/13/09	R/W Plans Preparation			0	
1/11/10	1/14/10	R/W Plans Final Approval			0	
8/24/09	8/26/09	L & D Report Development and Approval			0	
1/15/10	7/22/11	R/W Acquisition			0	
6/9/10	6/22/10	Stake R/W			0	
8/24/09	9/2/09	Soil Survey			0	
8/24/09	9/28/09	Bridge Foundation Investigation			0	
8/27/09	6/30/10	Final Design			0	
9/25/09	3/11/10	Final Bridge Plans Preparation			0	
7/22/10	7/23/10	FFPR Inspection			0	
8/6/10	8/19/10	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: N MEASUREMENT E CONSULTANT: T UT EST: \$ 0.00

PDD: 'TS' NOT IN STIP 3/5/93
Bridge: BRIDGE REQUIRED
Design: (KCI-Consultant) N&P Approved by Planning 2-8-08
LGPA: LGPA AGREEMENT SGN JENKINS DO ROW & UTILITIES 10-3-06.
Permits: NEED IMPACTS TO DETERMINE
Prog. Develop: PE STIP AMENDMENT #7 12-05
Programming: #1 12-06
Traffic Op: NO SIGN & MKG PLANS REQ'D ABR 10/10/90 - *
EMG: BRIDGE REPLACEMENT

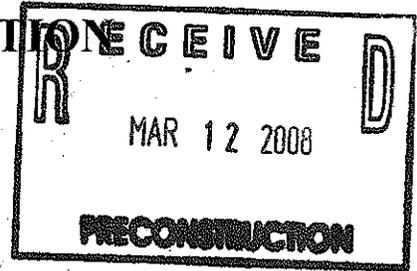
R/W INFORMATION:

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





DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 231150

OFFICE: Environment/Location

DATE: March 7, 2008

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

TO: Genetha-Rice Singleton, Assistant Director of Preconstruction

SUBJECT: PROJECT CONCEPT REPORT
BRSLB-1320(3) / Jenkins County
CR 191 at Ogeechee River North of Emanuel County Line

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

1. The recent archaeological survey of this project indicates that no National Register eligible archaeological sites exist within the project's area of potential effect.
2. The bridge dates to 1955 and is not included in the Georgia Historic Bridge Survey. Since it is 50+ years of age it will need to be individually evaluated for NR eligibility.
3. This project may require a June – August survey for plant species.
4. FHWA has requested that all Detour PIOH's be held prior to approval of the Environmental document. This will need to be factored into the schedule. In order to make a January '09 management directed Right of Way date, the CE needs to be approved in June '08. Not much Environmental work has been done on the project and so the proposed schedule appears to be in jeopardy.
5. Additional funding may be required for mitigation of impacts to waters of the US.

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

GB:lc

Attachment

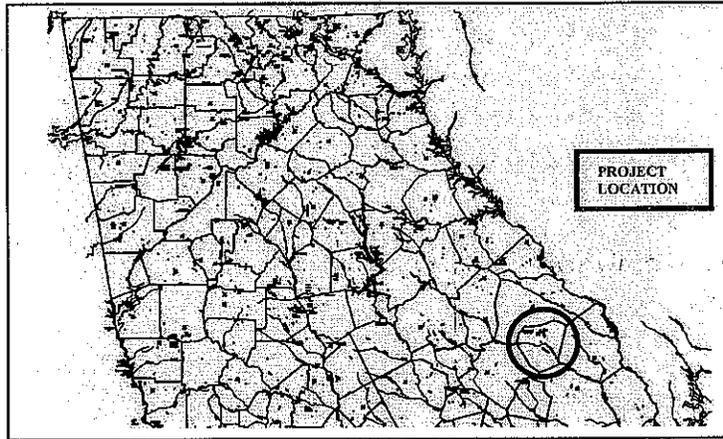
cc: Brian Summers
Jamie Simpson
Angela Alexander
Keith Golden
Tony Collins
Paul Liles

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN AND PROGRAM DELIVERY
PROJECT CONCEPT REPORT**

Project Number: BRSLB-1320(3)
County: Jenkins
P. I. Number: 231150

Federal Route Number: None
State Route Number: None
County Route Number: 191

CR 191 @ Ogeechee River Overflow
North of Emanuel County Line



Recommendation for approval:

DATE 2/12/08

Foster C. Guines

Project Manager

DATE 2/20/08

Anthony J. Collins

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 Transportation Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE 3/20/08

Paul V. Hiller Jr.

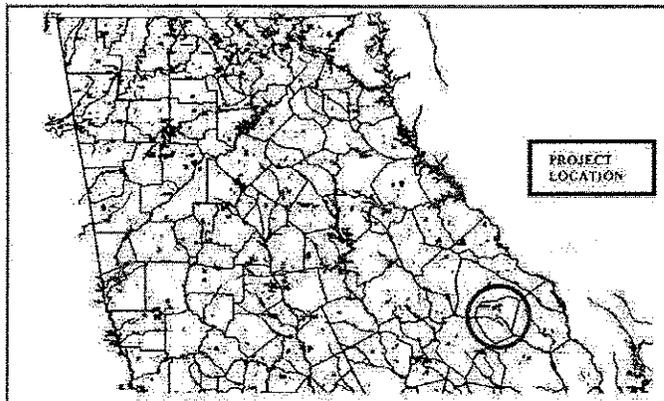
Office of Bridge and Structural Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN AND PROGRAM DELIVERY
PROJECT CONCEPT REPORT**

Project Number: BRS LB-1320(3)
County: Jenkins
P. I. Number: 231150

Federal Route Number: None
State Route Number: None
County Route Number: 191

CR 191 @ Ogeechee River Overflow
North of Emanuel County Line



Recommendation for approval:

DATE 2/12/08

Foster C. Humes
Project Manager

DATE 2/20/08

Anthony J. Allen
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 Transportation Financial Management Administrator

DATE 3/1/08

[Signature]
State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

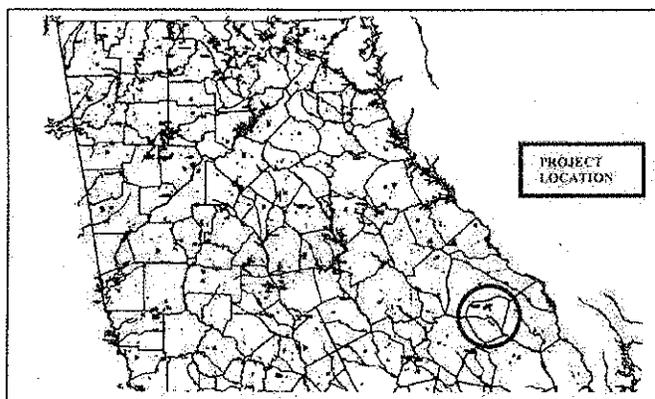
Office of Bridge and Structural Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN AND PROGRAM DELIVERY
PROJECT CONCEPT REPORT**

Project Number: BRSLB-1320(3)
County: Jenkins
P. I. Number: 231150

Federal Route Number: None
State Route Number: None
County Route Number: 191

CR 191 @ Ogeechee River Overflow
North of Emanuel County Line



Recommendation for approval:

DATE 2/12/08

Foster C. Gurnes

Project Manager

DATE 2/20/08

Anthony J. Willis

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 3/3/08

Angela J. Alexander

State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

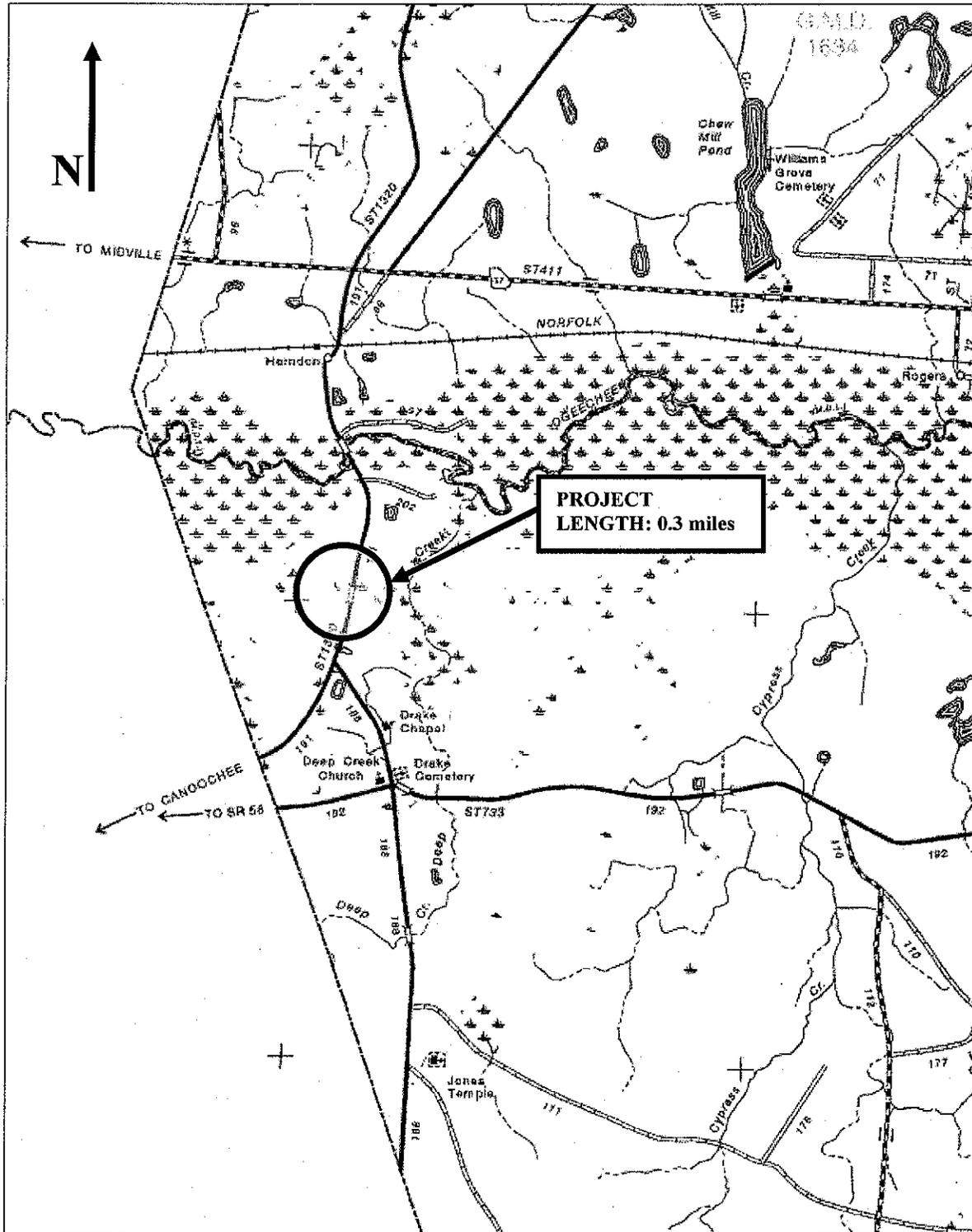
DATE _____

Project Review Engineer

DATE _____

Office of Bridge and Structural Design

FIGURE 1 : PROJECT LOCATION MAP-Project No. : BRS LB-1320(3), Jenkins County



Project Concept Report - Page 3
 Project Number: BRSLB-1320(3)
 P. I. Number: 231150
 County: Jenkins

Need and Purpose:

Project Description

The need and purpose of this proposed project is to improve the bridge infrastructure at County Road (CR) 191 at the Ogeechee River overflow north of the Emanuel County Line in Jenkins County, Georgia (Figure 1, Project Location Map). The proposed project would serve to replace the existing bridge (Structure ID 165-0033-0) which has substandard load capacity and deck geometry.

Bridge Characteristics

The existing CR 191 Bridge over the Ogeechee River overflow is 225 feet in length and 22.7 feet in width. The CR 191 Bridge over the Ogeechee River overflow was constructed in 1955 and has a sufficiency rating of 44.88.

A general measure of the condition of each bridge is the sufficiency rating. Sufficiency rating is a scale used by the Georgia Department of Transportation (GDOT) to determine the structural and geometric condition of the bridge. This rating is determined by a federal definition adopted from the Association of American State Highway and Transportation Officials (AASHTO) standards and is based on structural adequacy and safety, serviceability, functional obsolescence, and necessity for public use. Ranging on a point system from 1 to 100, any bridge with ratings of 50 points or lower are bridge project candidates to utilize federal bridge replacement funds.

Route Characteristics

CR 191 is a two-lane roadway which provides access along Jenkins County from the Emanuel County Line/ CR 446, along western Jenkins County to the Burke County Line/CR 452. The functional classification of CR 191 is a rural major collector and the posted speed limit is 55 mph. The latitude of the existing bridge is 32°48'16" and the longitude is 82°7'33". The bridge over the Ogeechee River overflow is located between mile post 1.17 and 1.37 on CR 191, approximately two miles south of the Town of Herndon.

Traffic Data

CR 191 has an average traffic volume of approximately 240 vehicles per day (VPD). See Table 1 below. The existing level of service (LOS) is A. The proposed improvements will have a LOS A for the design year.

Table 1
CR 191 over Ogeechee River Overflow
Traffic Volumes (VPD)

	Existing (2007)	Build-Year (2009)		Design-Year (2029)	
		Build	No-Build	Build	No-Build
CR 191 over Ogeechee River	240	252	252	415	415

Project Concept Report - Page 4
Project Number: BRSLB-1320(3)
P. I. Number: 231150
County: Jenkins

Social/Economic Characteristics

The United States Environmental Protection Agency's (US EPA) Environmental Justice Geographic Assessment Tool (<http://www.epa.gov/enviro/ej/>) was used to perform a preliminary environmental justice analysis for the proposed project. Using this tool, the area of the proposed study area was digitized on a map and compared to county and state data. According to the 2000 US Census, the Study Area minority population (3 persons) represents 36.9% of the Study Area's total population. The 2000 census data indicate that Jenkins County and the State of Georgia have minority populations of 44.1% (3,782 persons) and 37.3% (3,053,547 persons), respectively. Minorities in the Study Area consist of people who describe themselves as Black or African American, American Indian and Alaska Native, Asian, some other race alone, or as belonging to two or more races.

According to the 2000 US Census, the percentage of the Study Area below poverty level is 22.2% (2 persons). The year 2000 data indicate that Jenkins County and the State of Georgia have low-income populations of 28.2% (2,419 persons) and 12.6% (1,033,793 persons), respectively.

Conclusion

Replacement of the existing bridge is justified due to its current deficient sufficiency rating. The need exists to replace this bridge and bring it up to current design standards and in doing so the operation and safety of this roadway will improve.

Is the project located in a Non-attainment area? _____ Yes X No

PDP Classification: Minor, Existing Location

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

Functional Classification: Rural Major Collector Road

U. S. Route Number(s): None

State Route Number(s): None

County Road Number: 191

Traffic (AADT):

Current Year (2009): 252 vpd

Design Year (2029): 415 vpd

Existing design features:

- Typical Section: 2 – 10-ft asphalt travel lanes with 5-ft grassed shoulders
- Posted speed: 55 mph
- Minimum curve radius: N/A
- Maximum grade: 2%
- Width of right of way: 100-ft
- Major structures:
 - Existing 225-ft x 23.00-ft reinforced concrete bridge on CR191/Herndon Road over the Ogeechee River Overflow Channel
Struct. ID 165-0033-0 Suff. Rating 44.88

- Major interchanges or intersections along the project: None
- Existing length of roadway: 0.1 miles

Proposed Design Features:

- Proposed typical section(s): 2 – 10-ft asphalt travel lanes with 5-ft grassed shoulders
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum grade Mainline: 2.0%
- Maximum grade allowable Mainline: 6.0%
- Proposed Maximum grade Side Street: N/A
- Maximum grade allowable Side Street: N/A
- Proposed Maximum grade driveway: N/A
- Proposed Minimum radii of curve: N/A
- Minimum radii allowable: N/A
- Right of way
 - Width: 120-ft
 - Easements: Temporary (), Permanent (X), Utility (), Other ().
 - Type of access control: Full (), Partial (X), By Permit (), Other ().
 - Number of parcels: 3 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges – Proposed replacement bridge will be reinforced concrete, 400-ft x 30-ft
 - Retaining walls – N/A
- Major intersections and interchanges: N/A
- Traffic control during construction: CR 191 will be closed at the project during construction.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(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: A design variance will be required for lane and shoulder width.
- Environmental concerns: Possible Section 404 permit required.

Phase I Archaeological Survey identified one prehistoric site within the APE for the Ogeechee River Overflow Bridge Replacement. Based on the Phase I test results, GDOT considers the site to be ineligible for the National Register and recommends no further

Project Concept Report - Page 6
Project Number: BRSLB-1320(3)
P. I. Number: 231150
County: Jenkins

testing.

The Ogeechee River Overflow Bridge was built in 1955 which makes it older than 50-years. An offsite detour PIOH will be required to notify the public of the upcoming road closure.

- Anticipated level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements:
 - Power – Georgia Power Company
 - Telephone – AT&T

VE Study Required Yes () No (X)

Project responsibilities:

- Design: KCI Technologies for GDOT
- Right of Way Acquisition: Jenkins County
- Relocation of Utilities: GDOT District Two Utilities Section Coordination
- Letting to contract: GDOT – Contracts Administration
- Supervision of construction: GDOT – Swainsboro Area Engineers Office
- Providing material pits: In Contract
- Providing detours: The local government will also be required to provide notification of the road closure and any detour signage. A special provision shall be provided regarding one bridge being closed at a time along CR 191.

Coordination

- Concept meeting date and brief summary: December 19, 2007, Minutes attached
- P. A. R. meetings, dates and results: None required
- FEMA, USCG, and/or TVA: FEMA Coordination is required
- Public involvement: An off-site detour meeting will be required to advise the public of the road closure
- Local government comments: The local government will be asked to relocate any utility facilities that they may own. They will be responsible for purchasing the right of way and providing detours.
- Other projects in the area:
 - BRSLB-1320(4), Jenkins County; Replacement of CR 191 @ Ogeechee River Main Bridge
- Railroads: N/A
- Other coordination to date: None

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 12 Months
- Time to complete preliminary construction plans: 12 Months

Project Concept Report - Page 7
Project Number: BRSLB-1320(3)
P. I. Number: 231150
County: Jenkins

- Time to complete right of way plans: 6 Months
- Time to complete the Section 404 Permit: 12 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: No Build

Comments:

The No Build alternate was eliminated due to safety concerns of continuing to use a bridge that does not meet minimum bridge width and load capacity requirements, and due to the long-term maintenance cost of a structurally deficient bridge.

Attachments:

1. Cost Estimates:
 - a. Construction including E&C (10%) - \$2,020,087
 - b. Right of Way - \$63,600
 - c. Utilities - \$9,000
2. Typical sections
3. Concept Meeting Minutes
4. Bridge inventory
5. Traffic Data
6. Pavement Design
7. Location and Design Notice
8. Benefit Cost Analysis

Estimate Report for file "231150"

Section ROADWAY

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	10000.00	TRAFFIC CONTROL -	10000.00
201-1500	1	LS	10000.00	CLEARING & GRUBBING -	10000.00
205-0001	5500	CY	4.82	UNCLASS EXCAV	26510.00
310-1101	1536	TN	19.98	GR AGGR BASE CRS, INCL MATL	30689.28
318-3000	113	TN	19.48	AGGR SURF CRS	2201.24
402-1812	37	TN	65.05	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	2406.85
402-3140	181	TN	80.77	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL	14619.37
402-3190	470	TN	63.21	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	29708.70
413-1000	107	GL	2.00	BITUM TACK COAT	214.00
433-1000	267	SY	126.26	REINF CONC APPROACH SLAB	33711.42
441-0301	2	EA	2172.56	CONC SPILLWAY, TP 1	4345.12
500-3101	1	CY	600.77	CLASS A CONCRETE	600.77
550-2180	100	LF	32.87	SIDE DRAIN PIPE, 18 IN, H 1-10	3287.00
550-3618	3	EA	659.02	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	1977.06
576-1015	100	LF	35.31	SLOPE DRAIN PIPE, 15 IN	3531.00
634-1200	8	EA	99.53	RIGHT OF WAY MARKERS	796.24
641-1100	84	LF	46.34	GUARDRAIL, TP T	3892.56
641-1200	311	LF	16.93	GUARDRAIL, TP W	5265.23
641-5001	2	EA	634.44	GUARDRAIL ANCHORAGE, TP 1	1268.88
641-5012	2	EA	1801.20	GUARDRAIL ANCHORAGE, TP 12	3602.40
643-8200	500	LF	2.98	BARRIER FENCE (ORANGE), 4 FT	1490.00

Section Sub Total: \$190,117.12

Section TEMPORARY EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	2	AC	679.69	TEMPORARY GRASSING	1359.38
163-0240	6	TN	161.07	MULCH	966.42
163-0300	2	EA	1655.76	CONSTRUCTION EXIT	3311.52
163-0520	175	LF	17.42	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	3048.50
163-0523	32	EA	126.03	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - TYPE C SILT FENCE	4032.96
163-0530	300	LF	4.20	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	1260.00
165-0030	800	LF	1.64	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1312.00
165-0040	16	EA	66.20	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	1059.20
165-0050	100	LF	1.81	MAINTENANCE OF SILT RETENTION BARRIER	181.00
165-0070	150	LF	1.86	MAINTENANCE OF BALED STRAW EROSION CHECK	279.00
165-0101	2	EA	607.78	MAINTENANCE OF CONSTRUCTION EXIT	1215.56
167-1000	2	EA	1278.47	WATER QUALITY MONITORING AND SAMPLING	2556.94
167-1500	12	MO	944.75	WATER QUALITY INSPECTIONS	11337.00
170-1000	200	LF	13.54	FLOATING SILT RETENTION BARRIER	2708.00
171-0030	1600	LF	3.83	TEMPORARY SILT FENCE, TYPE C	6128.00

Section Sub Total: \$40,755.48

Section EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2181	200	SY	45.21	STN DUMPED RIP RAP, TP 3, 18 IN	9042.00
603-7000	200	SY	4.71	PLASTIC FILTER FABRIC	942.00
700-7000	5	TN	59.64	AGRICULTURAL LIME	298.20
700-7010	5	GL	22.32	LIQUID LIME	111.60
700-8000	2	TN	292.83	FERTILIZER MIXED GRADE	585.66
700-8100	75	LB	2.31	FERTILIZER NITROGEN CONTENT	173.25
710-9000	250	SY	4.38	PERMANENT SOIL REINFORCING MAT	1095.00
716-2000	2500	SY	1.20	EROSION CONTROL MATS, SLOPES	3000.00

Section Sub Total: \$15,247.71

Section SIGNING & MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1033	13	SF	19.64	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	255.32
636-2070	150	LF	8.27	GALV STEEL POSTS, TP 7	1240.50
652-5451	1600	LF	0.24	SOLID TRAFFIC STRIPE, 5 IN, WHITE	384.00
652-5452	800	LF	0.23	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	184.00
657-1054	800	LF	5.19	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB	4152.00
657-6054	800	LF	4.99	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	3992.00

Section Sub Total: \$10,207.82

Section BRIDGE

Item Number	Quantity	Units	Unit Price	Item Description	Cost
540-1101	1	LS	123750.00	REMOVAL OF EXISTING BR, STA NO -	123750.00
543-1001	1	Lump Sum	1368000.00	BRIDGE COMPLETE	1368000.00
603-2024	1500	SY	54.20	STN DUMPED RIP RAP, TP 1, 24 IN	81300.00
603-7000	1500	SY	4.71	PLASTIC FILTER FABRIC	7065.00

Section Sub Total: \$1,580,115.00

Total Estimated Cost: \$1,836,443.13

Subtotal Construction Cost \$1,836,443.13

E&C Rate 10.0 % \$183,644.31

Inflation Rate 0.0 % @ 0.0 Years \$0.00

Total Construction Cost \$2,020,087.44

Right Of Way \$63,600.00

ReImb. Utilities \$9,000.00

Grand Total Project Cost \$2,092,687.44

Department of Transportation State of Georgia

Interdepartmental Correspondence

FILE R/W Cost Estimate **OFFICE** Atlanta
DATE December 12, 2007
FROM Phil Copeland, Right of Way Administrator
TO Foster Grimes District Two Design
SUBJECT **Preliminary Right of Way Cost Estimate**
Project: BRSLB-1320(3)Jenkins
P.I. No.:231150
Description: CR 191 @ Ogeechee River Overflow

Per your request, attached is a copy of the approved Preliminary Right of Way Cost Estimate on the above referenced project.

Please note the area of Required R/W was furnished with your request.

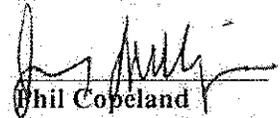
If you have any questions, please contact Jerry Milligan at the West Annex Right of Way Office at (770) 986-1541.

PC::GAM

Attachments

c: Brian Summers, Engineering Services
Wes Brock, R/W
Windy Bickers, Financial Management
File

Preliminary Right of Way Cost Estimate


Phil Copeland
 Right of Way Administrator
 By: Jerry Milligan

Date: December 12, 2007
 Project: BRSLB-1320(3) Jenkins
 Existing/Required R/W: Varies/Varies
 Project Termini : Bridge Replacement over Ogeechee River on CR 191
 Project Description: CR 191 Bridge Replacement over Ogeechee River

P.I. Number: 231150
 No. Parcels: 3

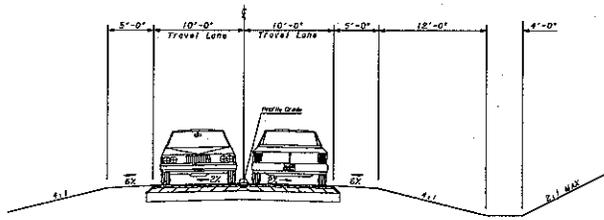
Land: Res/ Ag.: R/W . 0.55 acres @ \$6,000 / acre	\$	3,305
Improvements : Misc. Site Improvements		15,000
Relocation: Residential (0)		
Commercial (0)		0
Damage : Cost to Cure (0) parcel		
Proximity (0) parcel		
Uneconomic Remnant		0

Net Cost \$ 18,305

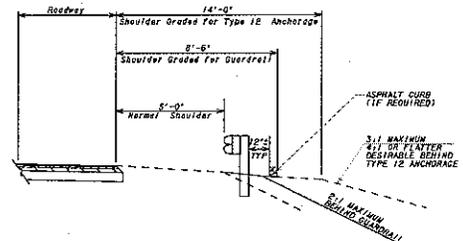
Net Cost		\$ 18,305
Scheduling Contingency	55 %	10,068
Adm/Court Cost	60 %	17,024
Market Appreciation	40 %	18,159
		\$ 63,556

Total Cost \$63,600

DATE: 08/11/11	PROJECT NO: 0810-124213	STATE: GA	SHEET NO: 5-01	TOTAL SHEETS: 5
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MAINLINE TYPICAL SECTION



TYPICAL SHOULDER DETAIL FOR BRIDGE APPROACH GUARDRAIL
SEE PLAN FOR LOCATION

NOTE: AN ADDITIONAL 5'-6" TO THE SHOULDER WILL BE REQUIRED ON ALL 3:1 FILL SLOPES TO FACILITATE THE INSTALLATION OF GUARDRAIL.

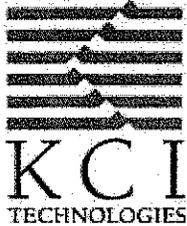
* ASPHALT CONCRETE CURB PER SECTION 436 SHALL BE REQUIRED WHERE SPECIFIED. TYPICAL USE FOR EROSION PREVENTION OF HIGH FILL SLOPES, WHERE SPILLWAYS ARE REQUIRED, ASPHALT CONCRETE CURB SHALL NOT BE USED WITHIN THE LIMITS OF THE TYPE 12 ANCHORAGE.

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

KCI
TECHNOLOGIES

3225 Lafayette Boulevard
Bldg 405, Suite 400
Duluth, GA 30096
PH: 678-290-8200 • FAX: 678-290-4122
www.kci.com

REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF CONSULTANT DESIGN
	TYPICAL SECTIONS
	CR 191 @ OSEECHEE RIVER OVERFLOW BRIDGE REPLACEMENT
	DRAWING NO. 5-01



3235 Satellite Blvd.
Bldg. 400, Suite 500
Duluth, GA 30096

678.990.6200
678.992.6222, fax

MEETING MINUTES

DATE: January 23, 2008

LOCATION: GDOT District 2, Area 2 Office in Swainsboro

PROJECT: CR 191 @ Ogeechee River Overflow North of Emanuel County Line
BRSLB-1320(3)
P.I. No. 231150
CR 191 @ Ogeechee River North of Emanuel County Line
BRSLB-1320(4)
P.I. No. 231152

ATTENDEES:	Mike Stoltzfus	KCI Technologies, Inc.	mstoltzfus@kci.com
	Stan Hicks	KCI Technologies, Inc.	shicks@kci.com
	Greg Nicolas	KCI Technologies, Inc.	gnicolas@kci.com
	Janet Crouse	KCI Technologies, Inc.	jcrouse@kci.com
	J. Michael Lee	GDOT	michael.lee@dot.state.ga.us
	Jim Kitchings	GDOT	jim.kitchings@dot.state.ga.us
	Alan Smith	GDOT	alan.smith@dot.state.ga.us
	Gus Cooper	GDOT	jack.cooper@dot.state.ga.us
	Foster Grimes	GDOT	fgrimes@dot.ga.gov
	Lynn Bean	GDOT	

A meeting was held with GDOT for the projects listed above on December 19, 2007. The purpose of this meeting was to present the proposed concept and alternatives and discuss project issues to produce a better understanding of the project scope and objectives. The following is a summary of the items that were discussed at the meeting.

Discussion:

- KCI will update the Need and Purpose and send to GDOT
- Special Provisions, Sections 108 and 150 will be needed due to bridge closures
 - KCI will provide this to GDOT with the PFPR plans
 - GDOT noted that both bridges cannot be closed at the same time, so separate construction on the bridges will be used
- The project background was discussed with focus on the curve length and the length of the bridges
 - The current curve on the southern approach to the main bridge currently has a length of 750', but it needs to have a length of 1,060'
 - The lengths of the proposed bridges are currently estimated lengths given by the hydraulic engineers. The main bridge is currently set to be placed in part of a curve. If this remains after the hydraulic study is completed, the superelevation of the roadway on the bridge and coming into the bridge will need to be looked at carefully.

- Environmental/Historical items
 - Main bridge – wetlands will be impacted
 - Overflow bridge – wetlands will NOT be impacted
 - There are no historic properties on either project
 - GDOT recommended that the main bridge may need to be listed as historical
 - GDOT recommended that the bald eagle needs to be de-listed but still remain in the report
 - Phase II Archeology has already been recommended by GDOT for the main bridge
 - If bridge realignment is proposed after the Phase II Archeology, KCI is to contact GDOT to see about proper documentation in order to avoid realignment
 - KCI is to contact DNR regarding the boat ramp in between the two bridges
 - GDOT will supply KCI with a contact from the Thompson office
- There has been no public input to date
- GDOT confirmed that a detour PIOH will be required
- Typical Sections
 - GDOT informed KCI to follow AASHTO for local roads instead of the GDOT Design Manual for lane and shoulder widths
 - KCI will need to complete a design variance to cover the use of 5' shoulders and 10' lanes as well as the widths needed to tie to the existing road
 - GDOT said that there does not need to be a 2' offset for the guardrail
- GDOT informed KCI that a Practical Alternative Report (PAR) will not be needed
- FEMA coordination will be required for the main bridge
- MSAT will be needed (Lori Kennedy)
- A special provision for swallows will need to be completed (Lori Kennedy)
- Local Government Agreements (LGPA) will not be used, but Project Management Agreements will be used
 - GDOT gave KCI the contact Vonda Everett (478)552-4631 regarding the agreements
- GDOT informed KCI that Jenkins County is purchasing the Right-of-Way instead of GDOT
- Utilities located along projects
 - The utility lines located on both bridges are abandoned AT&T lines
 - The power line located along the west side of the overflow bridge is a Georgia Power aerial line
 - The utility owners listed in the concept report are to be the following: Georgia Power and AT&T
- Potential soil conditions along the projects are expected to be sandy
 - Might have to use 3:1 slopes instead of 2:1 slopes based on soil analysis
- Maintenance of Traffic will be used during construction of both projects
 - The road will be closed and a 4-5 mile detour will be used to re-route traffic
 - As mentioned previously, only one bridge can be closed at a time
- KCI needs to complete a Benefit/Cost Analysis Worksheet and submit to GDOT
 - Due to the fact that CR 191 is a low volume road, GDOT expects a B/C ratio of approximately 0.1
- The additional archeology needed might extend the environmental schedule by at least 3 months
- A request for additional budget for the Phase II Archeology has already been submitted to GDOT
- GDOT informed KCI that the driveway profiles need to have a grade less than or equal to 11%
- KCI is to verify the width of the bridge on TOPPS based on the traffic counts
 - The shoulder of the roadway may have to widen coming into the bridge

This is my understanding of the items discussed. If you have any questions, please contact me at (678)990-6211 or by email mstoltzfus@kci.com

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 165-0033-0

Jenkins

SUFF. RATING

44.88

Location & Geography

* Structure I.D.No: 165-0033-0
 200 Bridge Information 06
 * 6A Feature Int: OGEECHEE RIVER O/F
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: CR00191
 * 7B Facility Carried: CANOOCHEE-HERNDON
 * 9 Location: 11 MI W OF MILLEN
 2 DOT District: 2
 207 Year Photo: 2007
 * 91 Inspection Frequency: 24 Date: 01/04/2007
 92A Fract Crit Insp Freq: 00 Date: 02/01/1901
 92B Underwater Insp Freq: 00 Date: 02/01/1901
 92C Other Spe. Insp Freq: 00 Date: 02/01/1901
 * 4 Place Code: 00000
 * 5 Inventory Route (O/U): 1
 Type: 4
 Designation: 1
 Number: 01320
 Direction: 0
 * 16 Latitude: 32-48.2460 MMS Prefix:
 * 17 Longitude: 82-07.5620 MMS Suffix: MP: 0.00
 98 Border Bridge: 000 %Shared: 00
 99 ID Number: 0000000000000000
 * 100 STRAHNET: 0
 12 Base Highway Network: 1
 13A LRS Inventory Route: 1652019100
 13B Sub Inventory Route: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 * 264 Road Inventory Mile Post: 001.07
 * 208 Inspection Area: 10 Initials: JWM
 Engineer's Initial: sgm
 * Location I.D. No.: 165-01320F-001.27N

* 104 Highway System: 0
 * 26 Functional Classification: 07
 * 204 Federal Route Type: S No.: 01320
 105 Federal Lands Highway: 0
 * 110 Truck Route: 0
 206 School Bus Route: 0
 217 Benchmark Elevation: 0000.00
 218 Datum: 0
 * 19 Bypass Length: 20
 * 20 Toll: 3
 * 21 Maintenance: 02
 * 22 Owner: 02
 * 31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 12
 27 Year Constructed: 1955
 106 Year Reconstructed: 0000
 33 Bridge Median: 0
 34 Skew: 00
 35 Structure Flared: 0
 38 Navigation Control: 0
 213 Special Steel Design: 0
 267 Type of Paint: 0
 * 42 Type of Service on: 1
 9
 214 Movable Bridge: 0
 203 Type Bridge: C-K-A-O
 259 Pile Encasement: 3
 * 43 Structure Type Main: 1 01
 45 No. Spans Main: 015
 44 Structure Type Appr: 0 00
 46 No. Spans Appr: 0000
 226 Bridge Curve Horz: 0 Vert: 0
 111 Pier Protection: 0
 107 Deck Structure Type: 2
 108 Wearing Surface Type: 1
 Mt 8
 F 8

Signs & Attachments

225 Expansion Joint Type: 02
 242 Deck Drains: 1
 243 Parapet Location: 0
 Height: 0.00
 Width: 0.00
 238 Curb: 1.20 1
 239 Handrail: 2 2
 * 240 Median Barrier Rail: 0
 241 Bridge Median Height: 0.00
 Width: 0.00
 * 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: 55
 236 Warning Sign: 0
 234 Delineator: 0
 235 Hazard Boards: 1
 237 Utilities Gas: 00
 W 00
 Ele 00
 Telephone: 32
 St 00
 247 Lighting Street: 0
 Navigtion: 0
 Aerial: 0
 * 248 County Continuity No.: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 165-0033-0

Jenkins

SUFF. RATING

44.88

Programming Data

201 Project No.: BA (3) 1189 (4)
 202 Plans Available: 4
 249 Prop. Proj. No. BRSLB-1320 (3)
 250 Approval Status: 0000
 251 P.I. No.: 231150-
 252 Contract Date: 02/01/1901
 260 Seismic No.: 00000
 75 Type Work: 31 1
 94 Bridge Imp. Cost: \$ 246
 95 Roadway Imp. Cost: \$ 85
 96 Total Imp Cost: \$ 402
 76 Imp. Length: 000436
 97 Imp. Year: 1990
 114 Future ADT: 000465 Year: 2025

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0170.3 Year: 1900
 Avg. Streambed Elev.: 0000.0 Freq.: 00
 Drainage Area: 01450
 Area Of Opening: 001800
 113 Scour Critical: U
 216 Water Depth: 0.5 Br. Height: 10
 222 Slope Protection: 1
 221 Spur Dikes Rear: 0 Fwrd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No. Barrels: 0
 Width: 0.00 Height: 0.00
 Length: 0 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ
 * Location I.D. No.: 165-01320F-001.27N

Measurements

* 29 ADT: 000310 Year: 2005
 109 % Trucks: 0
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0015
 * 49 Structure Length: 225
 51 Br. Rwdy. Width: 21.60
 52 Deck Width: 23.00
 * 47 Tot. Horz. Cl: 21.60
 50 Curb/Sdewlk Width: 0.60/0.60
 32 Approach Rdwy Width: 020
 * 229 Shoulder Width:
 Rear Lt: 6.00 Type: 8 Rt: 6.00
 Fwrd Lt: 6.00 Type: 8 Rt: 6.00
 Pavement Width:
 Rear: 20.00 Type: 2
 Fwrd: 20.00 Type: 2
 Intersection Rear: 0 Fwrd: 0
 36 Safety Features Br. Rail:
 Transition: 0
 App. G. Rail: 2
 App. Rail End: 2
 53 Minimum Cl.Over: 99 ' 99 "
 Under: N 00 ' 00 "
 * 228 Min. Vertical Cl
 Act. Odm Dir: 99 ' 99 "
 Oppo. Dir: 99 ' 99 "
 Posted Odm. Dir: 00 ' 00 "
 Oppo. Dir: 00 ' 00 "
 55 Lateral Undercl. Rt: N 99.90
 56 Lateral Undercl. Lt: 0.00
 * 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: 10.00
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 1
 63 Inventory Rating Method: 1
 66 Inventory Type: 2 Rating: 16
 64 Operating Type: 2 Rating: 28
 231 Calculated Loads
 H-Modified: 10 1
 HS-Modified: 13 1
 Type 3: 13 1
 Type 3s2: 17 1
 Timber: 16 1
 Piggyback: 00 0
 261 H Inventory Rating: 09
 262 H Operating Rating: 15
 67 Structural Evaluation: 4
 58 Deck Condition: 6
 * 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 5
 60B Scour Condition: 8
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 8
 68 Deck Geometry: 4
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 8
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 2
 41 Struct Open, Posted, Cl: B
 * 103 Temporary Structure: T
 232 Posted Loads H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3s2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date 03/20/2007
 253 Fed Notify Date: 06/18/2007 0

CR 191 has an average traffic volume of approximately 240 vehicles per day (VPD). See Table 1 below. The existing level of service (LOS) is A. The proposed improvements will have a LOS A for the design year.

Table 1 CR 191 over Ogeechee River Overflow Traffic Volumes (VPD)					
	Existing (2007)	Build-Year (2009)		Design-Year (2029)	
		Build	No-Build	Build	No-Build
CR 191 over Ogeechee River Overflow (vpd)	240	252	252	415	415
% Trucks	3%	3%	3%	3%	3%
Trucks (vpd)	8	8	8	13	13
LOS	A	A	A	A	A

* LOS was determined based on the Georgia Regional Transportation Authority's (GRTA) Technical Guidelines. The LOS criteria in GRTA's Technical Guidelines were adopted from Florida DOT's LOS Handbook.

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BRSLB-1320(3)

County: Jenkins

P.I. no.: 231150

Description: CR 191 @ Ogeechee River Overflow - Bridge Replacement

Traffic Data (NOTE: AADTs are one-way)

24-hour Truck Percentage: 3.00%

AADT initial year of design period: 126 vpd (2009)

AADT final year of design period: 208 vpd (2029)

Mean AADT (one-way): 167 vpd

Design Loading

Mean AADT	LDF	Trucks	18-K ESAL	=	Total Daily Loads
167 *	1.00 *	0.030 *	0.40		3

Total predicted design period loading = 3 * 20 * 365 = 21,900

Design Data

Terminal Serviceability Index: 2.50

Soil Support: 3.50

Regional Factor: 1.40

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness Inches	Thickness (mm)	Structural Coefficient	Structural Value
9.5 mm Superpave	1.25	(32)	0.44	0.55
19 mm Superpave	2.00	(51)	0.44	0.88
Graded Aggregate Base	8.00	(203)	0.16	1.28

Required SN = 2.07

Proposed SN = 2.71

>>> Proposed pavement is 31.0% Overdesign <<<

Remarks:

Prepared by Janet Crouse October 1, 2007
Date

Recommended State Consultant Design Engineer Date

Approved State Pavement Engineer Date

NOTICE OF LOCATION AND DESIGN APPROVAL

Project Number: BRSLB-1320(3)

County: Jenkins

P.I. Number: 231150

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.

The date of location and design approval is: APRIL 11, 2008
Date of Approval

This project consists of replacing the existing structurally deficient bridge on CR 191 over the Ogeechee River Overflow Channel in Jenkins County. The proposed project is 0.3 miles long, and will replace the existing Ogeechee River Overflow Bridge along the same alignment. The logical termini for the project have been established to accommodate the need to replace the existing bridge, approaches and guardrail. The project does not propose to improve the capacity of the roadway and will only improve the functional ability of the bridge and approaches. Thus, the logical termini reflect only the length of roadway needed to improve these items. CR 191 will be closed at the project location during construction and traffic will be rerouted to off-site detours utilizing existing county and state roads. The concept proposes to satisfy the Need and Purpose by replacing the existing substandard bridge with a new bridge that meets the current load capacity and deck geometry requirements.

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

Angie Cooper, Area 2 Engineer - Swainsboro
Georgia Department of Transportation
685 Kite Road
Swainsboro, Georgia 30401
(478) 289-2614
acooper@dot.ga.gov

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:

George Brewer, District Preconstruction Engineer
Georgia Department of Transportation
District Two Office
801 Highway 15 South
Tennille, Georgia 31089
(478) 552-4629
gbrewer@dot.ga.gov

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.